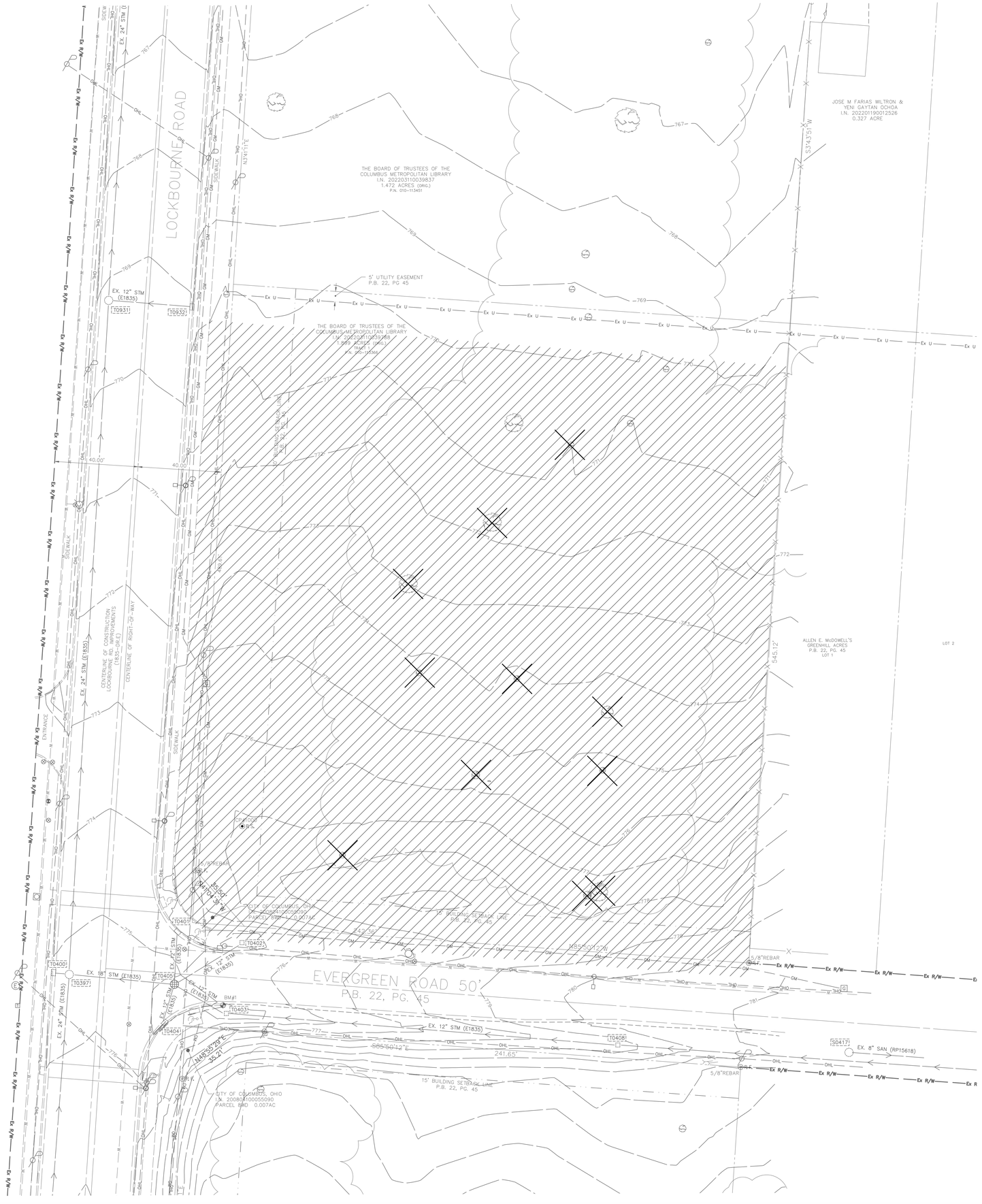

LEGEND

EXISTING TREES/VEGETATION TO BE REMOVED

EXISTING TREE TO BE REMOVED

0 20 40

SCALE: 1"=20'

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462 Ludlow St, Columbus OH 43215

Structural Engineer
SMBH
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MEP Engineer
Advanced Engineering Consultants
1405 Dublin Rd, Columbus OH 43215

Drawing Issue Dates

Schematic Design Submittal
9/1/2023

Design Development Submittal
11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

SITE DEMOLITION PLAN

C001

Issue Date

22150

DRAWING: P:\22031 CML MARION FRANKLIN BRANCH\CADD\22031 SITE DEMO.DWG
PLOT DATE: 10/30/2023 12:43 PM

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SCALE: 1"=20'

DRAWING: P:\22031 CML MARION FRANKLIN BRANCH\CADD\22031 SITE PLAN.DWG
PLOT DATE: 10/30/2023 12:42 PM

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Drawing Issue Dates

Schematic Design Submittal
9/1/2023

Design Development Submittal
11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
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Columbus, Ohio 43207

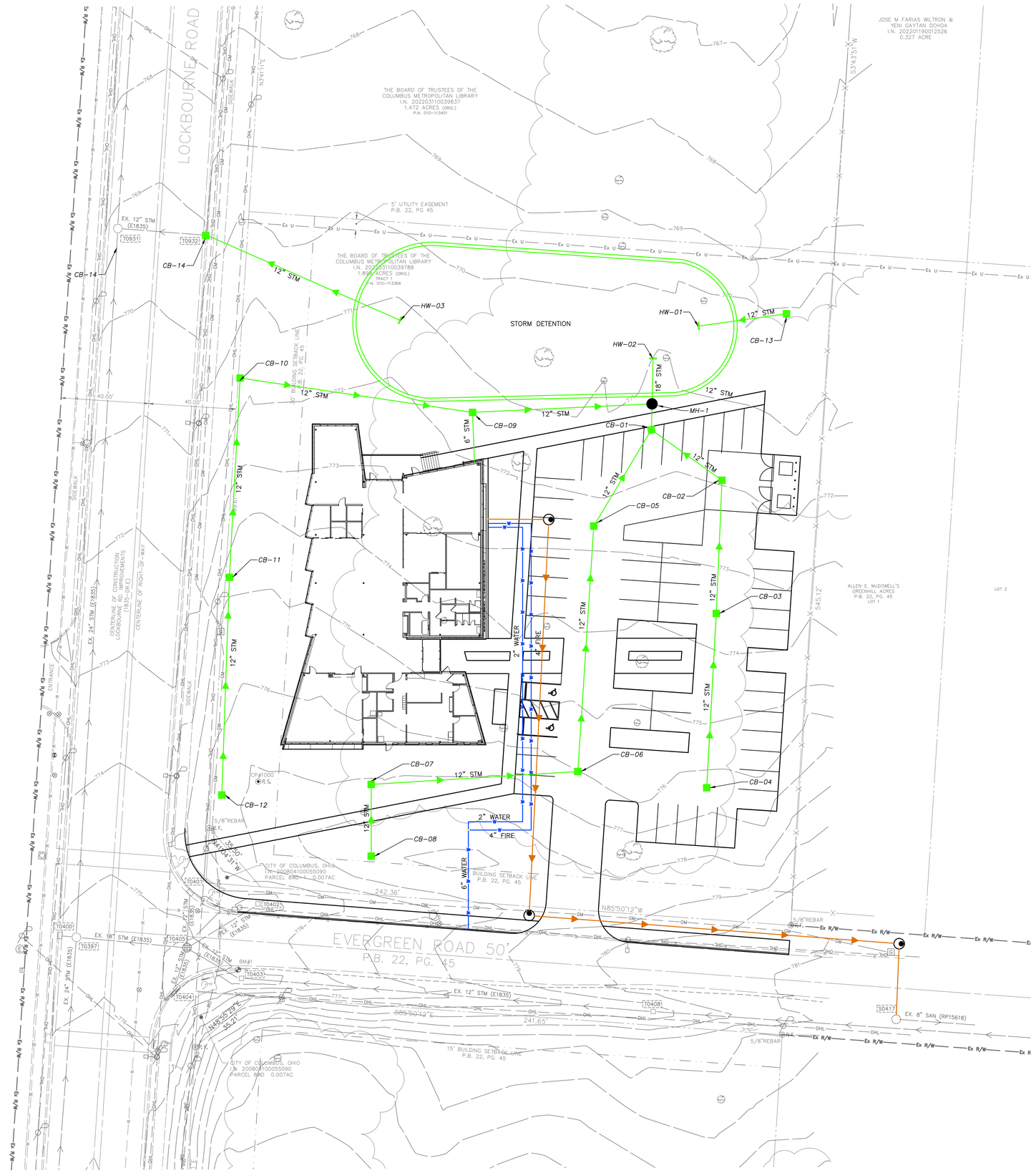
NOT FOR CONSTRUCTION

SITE PLAN

C002

Issue Date

22150



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Drawing Issue Dates

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9/1/2023

Design Development Submittal
11/2/2023

Revision Schedule

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CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

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UTILITY PLAN

C003

Issue Date

22150

DRAWING: P:\22031 CML MARION FRANKLIN BRANCH\CADD\22031 UTILITY PLAN.DWG
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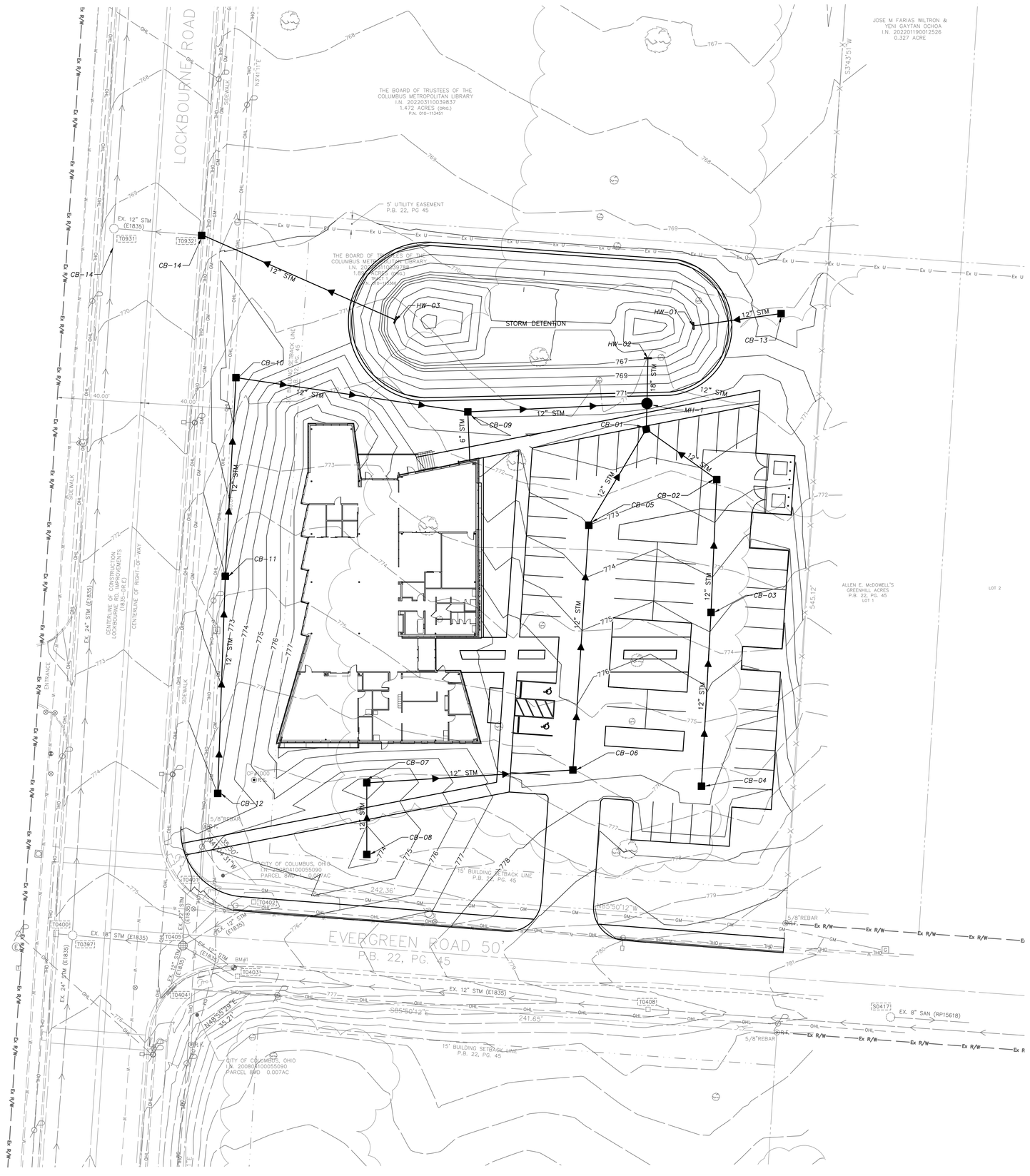

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PLOT DATE: 10/30/2023 12:28 PM

SCALE: 1"=20'

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9/1/2023

Design Development Submittal
11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
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Columbus, Ohio 43207

NOT FOR CONSTRUCTION

GRADING AND DRAINAGE

C004

Issue Date

22150

GENERAL NOTES

A. BASE INFORMATION

1. THE BASE MAPPING / SURVEY WAS PREPARED BY ARCADIS. 8101 NORTH HIGH STREET, SUITE 100, COLUMBUS, OH 43235. 6148184900. FIELD VERIFY EXISTING CONITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH WORK.
2. THE PLANS ASSUME THE LAYOUT AND STAKING WILL BE ACCOMPLISHED USING TOTAL STATIONING/ DIGITAL METHODS. ANY INFORMATION PROVIDED IS INTENDED TO SUPPORT INFORMATION ALREADY CONTAINED IN CAD FILES USED FOR DOCUMENTING LAYOUT AND STAKING. CAD FILES DELINEATING ALL GRADING AND HARDSCAPE ELEMENTS SHOWN IN THESE PLANS CAN BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
3. NORTHING AND EASTING POINTS, WHERE SHOWN ARE BASED ON STATE PLANE COORDINATE SYSTEM AS REFERENCED FROM THE SITE SURVEY.
4. THE LIMIT OF CONSTRUCTION WORK LINE SHOWN DEFINES THE LIMITS OF WORK IN THIS CONTRACT. EROSION PROTECTION DEVICES AND UTILITY SYSTEMS MAY EXTEND BEYOND THE PROJECT LIMITS LINE IN ORDER TO SUCCESSFULLY COMPLETE OPERATIONS AND / OR TIE INTO ADJACENT SYSTEMS.
5. LIMITS OF CONSTRUCTION AND CONTRACTOR STAGING AREAS SHALL BE LIMITED TO AREAS DESIGNATED BY THE CONTRACT DOCUMENTS.

B. GENERAL REQUIREMENTS

1. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH PROJECT DRAWINGS AND SPECIFICATIONS FOR ALL DIVISIONS OF WORK.
2. VERIFY EXISTING CONDITIONS AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE PERFORMED WHERE SUCH DISCREPANCIES EXIST. COMMENCEMENT OF CONSTRUCTION INDICATES THE CONTRACTOR ACCEPTS THE ACTUAL SITE CONDITIONS AS MATCHING THE EXISTING CONDITIONS DEPICTED ON THE PROJECT DOCUMENTS AND ASSUMES FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS TO WORK CONSTRUCTED UNDER HIS CONTRACT.
3. PRIOR TO COMMENCING WORK, REPORT AND DOCUMENT ANY DAMAGE OF EXISTING SITE STRUCTURES AND AMENITIES "TO REMAIN" TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT DAMAGE AT NO COST TO THE OWNER OR LANDSCAPE ARCHITECT.
4. COORDINATE WORK RELATED TO OTHER TRADES AND THE GENERAL CONSTRUCTION OF THE PROJECT. ALL MEANS, METHODS, SEQUENCING AND PROCEDURES OF THE WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. VERIFY THE CONDITION AND COMPLETENESS OF ALL WORK PERFORMED BY OTHERS RELATED TO THEIR WORK RESPONSIBILITIES INCLUDING THE VERIFICATION OF EXISTING ELEVATIONS OR STRUCTURES PRIOR TO INITIATING CONSTRUCTION. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF ANY SITE CONDITIONS ARE INCOMPLETE, MISSING OR DAMAGED.
6. NOTIFY OWNER'S REPRESENTATIVE 72 HOURS IN ADVANCE OF ANY PLANNED UTILITY INTERUPTION.

C. PROTECTION

1. CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, HUBS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IF ANY PINS OR MONUMENTS ARE DISTURBED, DAMAGED, OR DESTROYED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED PROFESSIONAL SURVEYOR AT THE COMPLETION OF THE PROJECT AND AT THE CONTRACTOR'S EXPENSE.
2. KNOWN EXISTING UTILITY LINES ARE NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROTECTING THEM DURING EXCAVATION. ANY DAMAGE TO UTILITIES AND ANY OTHER PROPERTY TO REMAIN SHALL BE REPAIRED IN KIND. IF CONTRACTOR ENCOUNTERS ANY UNFORESEEN UTILITY, NOTIFY THE OWNER'S REPRESENTATIVE FOR FURTHER DIRECTION PRIOR TO PROCEEDING WITH THE WORK.
3. CONTACT THE OHIO UTILITY PROTECTION SERVICE A MINIMUM OF
4. 48 HOURS IN ADVANCE OF WORK TO BE PERFORMED WITHIN THE CONSTRUCTION SITE AND IS RESPONSIBLE FOR COORDINATING ANY RELOCATIONS OR ADJUSTMENT/REPLACEMENT OF AFFECTED UTILITIES AND APPURTENANCES.
5. OBTAIN PERMITS AND TEMPORARY EASEMENTS FOR THE WORK AS REQUIRED AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE LOCAL JURISDICTION, THE STATE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
6. INSTALL TEMPORARY FENCING AND MAINTAIN THE SOIL AND CRITICAL ROOT PROTECTION-ZONES AS INDICATED ON DRAWINGS. LANDSCAPE ARCHITECT TO APPROVE INSTALLATION OF FENCING BEFORE EQUIPMENT OR MATERIALS ARE BROUGHT ONTO THE SITE AND CONSTRUCTION OPERATIONS BEGIN.

D. PUBLIC SAFETY

1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE CITY AND AUTHORITIES HAVING JURISDICTION. FOLLOW MAINTENANCE OF TRAFFIC PLANS.
2. PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND CITY PRACTICES. EGRESS AND INGRESS TO ALL BUILDINGS MUST BE MAINTAINED AT ALL TIMES.
3. PROVIDE FOR SAFE VEHICULAR AND PEDESTRIAN PASSAGE THROUGH THE CONSTRUCTION SITE AT ALL TIMES BY THE USE OF TRAFFIC CONTROL DEVICES, BARRICADES, SIGNAGE, PLATING, TEMPORARY ACCESS WALKS AND DRIVES, FLAGMEN OR OTHER RECOGNIZED PROTECTIVE METHODS.
4. CONTACT THE CITY ENGINEER TRAFFIC DIVISION 72 HOURS IN ADVANCE OF ANY PROPOSED ROAD CLOSURES IN ORDER THAT THE PUBLIC AND SAFETY OFFICIALS CAN BE NOTIFIED. THE TRAFFIC DIVISION SHALL BE NOTIFIED OF ANY PROPOSED LANE CLOSURES NOTING THE ANTICIPATED DURATION OF SUCH CLOSURE AND THE TRAFFIC CONTROL MEASURES TO BE USED.
5. TAKE CORRECTIVE ACTIONS FOR TRAFFIC MAINTENANCE IMMEDIATELY AS DIRECTED.

E. EROSION CONTROL

1. PROVIDE TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL ITEMS AS REQUIRED BY GOVERNING AGENCY, AS REQUIRED BY PERMIT, AS INDICATED ON THE PLANS, AND AS NOTED IN THE SPECIFICATIONS. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CLEARING AND COMMENCING EARTHWORK.
2. ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING CONDITIONS.
3. MAINTAIN, KEEP CLEAN AND FULLY OPERATIONAL SITE DRAINAGE FACILITIES AND EXISTING EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE, ORANGE GEO FENCE AND/OR OTHER MEASURES) DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS TO THE ADJACENT WATER BODIES, SURFACES AND STORM SEWERS ACCORDING TO ALL APPLICABLE FEDERAL/STATE LAWS AND REGULATIONS.
4. STORMWATER BMP'S SHALL BE INSPECTED ONCE EVERY SEVEN DAYS, AND WITHIN 24 HOURS OF A 0.5 INCH OR GREATER RAINFALL, OR BY WHAT IS REQUIRED BY PERMIT, WHICHEVER IS GREATER. CLEAN SEDIMENT BASINS AND CATCH BASINS AS REQUIRED TO MAINTAIN EFFECTIVENESS OR AS DIRECTED.

F. SITE CLEANING

1. PROVIDE APPROPRIATE CONTROL MEASURES DURING CONSTRUCTION TO PREVENT AIRBORNE DUST TO ADJACENT CITY PROPERTIES AND WALKWAYS.
2. MAINTAIN THE CONSTRUCTION SITE AT ALL TIMES IN A PRESENTABLE CONDITION ACCEPTABLE TO THE OWNER UNTIL THE COMPLETION AND ACCEPTANCE OF THE PROJECT. MAINTAIN ADJOINING STREETS, SIDEWALKS AND DRIVES FREE OF SOIL, MUD AND EXCESS CONSTRUCTION MATERIALS. BROOM SWEEP OR WASH AS NEEDED OR DIRECTED.
3. REPAIR OR REPLACE DAMAGED UTILITIES, PAVEMENTS, STRUCTURES, LANDSCAPING, STREET SIGNS AND MONUMENTS WITHIN THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR, SUB CONTRACTOR, SUPPLIES OR WORKERS. SUCH REPAIR OR REPLACEMENT SHALL BE "IN-KIND" AS DIRECTED. PROTECT ALL WORK AND PROPERTY WITHIN THE CONSTRUCTION SITE.
4. REMOVE AND DISPOSE OF LEGALLY ALL RUBBISH AND CONSTRUCTION DEBRIS IMMEDIATELY, UNLESS OTHERWISE INDICATED ON DRAWINGS.

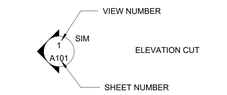
G. GRADING NOTES

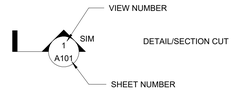
1. PRIOR TO CONSTRUCTION, VERIFY EXISTING GRADES AND CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE.
2. PROPOSED GRADES AND CONTOURS ARE INTERPOLATED FROM THE BEST INFORMATION AVAILABLE. ALL PROPOSED GRADES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
3. GRADES SHOWN INDICATE FINISH GRADE. VERIFY DEPTH OF PAVEMENT SECTIONS AND SOIL MIX PROFILES PRIOR TO ROUGH GRADING.
4. MAXIMUM SLOPE IN LANDSCAPE AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE INDICATED.
5. ALL SURFACES SHALL BE CONSTRUCTED TO POSITIVELY DRAIN AWAY FROM VERTICAL ELEMENTS SUCH AS BUILDINGS, WALLS, COLUMNS, ETC. AND INTO DRAINAGE STRUCTURES SHOWN.
6. MAXIMUM RUNNING SLOPES AT WALKWAYS SHALL NOT EXCEED 5.0%.
7. MAXIMUM CROSS SLOPES AT WALKWAYS SHALL NOT EXCEED 2.0%.
8. MATCH GRADES WITH ADJACENT SURFACES SO THAT ALL ABUTTING SURFACES ARE FLUSH.
9. COMPACT ALL SUBGRADE AS SPECIFIED TO PROVIDE FULL STRENGTH BEARING WITHOUT SETTLEMENT FOR ALL PAVEMENTS, CURBS, STRUCTURES, AND SITE FEATURES.
10. PROMPTLY REMOVE SOIL AND DEBRIS CREATED FROM GRADING OPERATIONS FROM PAVED AREAS. CLEAN WHEELS OF VEHICLES BEFORE LEAVING SITE TO AVOID TRACKING SOIL ONTO SURFACES OF ROADS, WALKS OR OTHER PAVED SURFACES.
11. REFER TO GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

PROJECT SPECIFIC NOTES:

1. CAREFULLY REMOVE, CLEAN AND PACK ITEMS DESIGNATED TO BE SALVAGED. TRANSPORT ITEMS TO OWNER.
2. PROVIDE AND PLACE APPROVED PLANTING SOIL MIX OR MIXES FOR DESIGNATED LANDSCAPE AREAS TO REQUIRED GRADES AS NOTED ON DRAWINGS. REFER TO SOILS PLAN FOR DEPTHS OF PLANTING SOIL MIXES.

AB	ANCHOR BOLT
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT
AGG	AGGREGATE
AL	ALIGN
ALT	ALTERNATE
ALUM	ALUMINUM
APPR	APPROXIMATE
ARCH	ARCHITECT
AUTO	AUTOMATIC
AWA	ALIGN WITH ARCHITECTURE
AWC	ALIGN WITH CENTER
B&B	BALLED AND BURLAPPED
BC	BACK OF CURB
BEL	BELOW
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BOT	BOTTOM
BR	BARE ROOT
BRK	BRICK
BS	BOTH SIDES
BTC	BOTTOM OF CURB
BTF	BOTTOM OF FOOTING
BTS	BOTTOM OF STEPS
BTW	BOTTOM OF WALL
BVL	BEVEL
BW	BACK OF WALL
BYND	BEYOND
CAL	CALIPER
CB	CATCH BASIN
CH	CHAMFER
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CRS	COURSE
CT	CLEAR TRUNK
CTR	CENTER
DBH	DIAMETER AT BREAST HEIGHT
DEM	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ENC	ENCLOSURE
ENG	ENGINEER
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXT	EXISTING / EXTERIOR
FB	FACE OF BUILDING
FC	FACE OF CURB
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FIN	FINISH
FW	FACE OF WALL
FT	FOOT/ FEET
FTG	FULL TO GROUND
FTR	FUTURE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GRT	GRATE ELEVATION
HB	HOSE BIB
HC	HANDICAPPED
HORZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
ID	INSIDE DIAMETER
IDR	INLET DRAIN
IN	INCH/ S
INC	INCLUDED
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
LP	LOW POINT
LT	LIGHT FIXTURE
MANF	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MULTI-STEM
NIC	NOT IN CONCTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
PIP	POURED IN PLACE
PLT	PLANTING AREA
PLUM	PLUMBING
POB	POINT OF BEGINNING
PP	PEAT POTS
PPP	PLANTS PER POT
PROP	PROPOSED
PRTR	PRESERVATIVE TREATED
PT	POINT
PTP	PRESSURE TREATED PINE
PW	POTABLE WATER
PVMT	PAVEMENT
QC	QUICK COUPLER
QTY	QUANTITY
R	RADIUS
RD	ROUND
REINF	REINFORCED
REM	REMOVE
REQD	REQUIRED
REV	REVISION
RIM	RIM ELEVATION
SCH	SCHEDULE
SEC	SECTION
SHT	SHEET
SIM	SIMILAR
SNT	SEALANT
SPEC	SPECIFICATION
SPR	SPREAD
SS	STAINLESS STEEL
ST	SINGLE TRUNK
STD	STANDARD
STRUC	STRUCTURAL
SQ	SQUARE
TBD	TO BE DETERMINED
TC	TOP OF CURB
TCB	TOP OF COLUMN BASE
TCM	TOP OF COLUMN
TEMP	TEMPERATURE
TF	TOP OF FOOTING
TS	TOP OF STAIRS
TW	TOP OF WALL
TYP	TYPICAL
UC	UNDERCUT
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WLA	WATER LEVEL AVERAGE
WLS	WATER LEVEL STATIONARY
WM	WIRE MSH
WP	WATERPROOFING
WR	WASTE RECEPTABLE
WWF	WELDED WIRE FABRIC





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11/2/2023

Revision Schedule

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CML Marion Franklin

Lockbourne Road, between Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

INDEX - NOTES & LEGENDS

L0.01

11/2/2023

c22302

1 SITE PLAN
SCALE: 1" = 20'-0"

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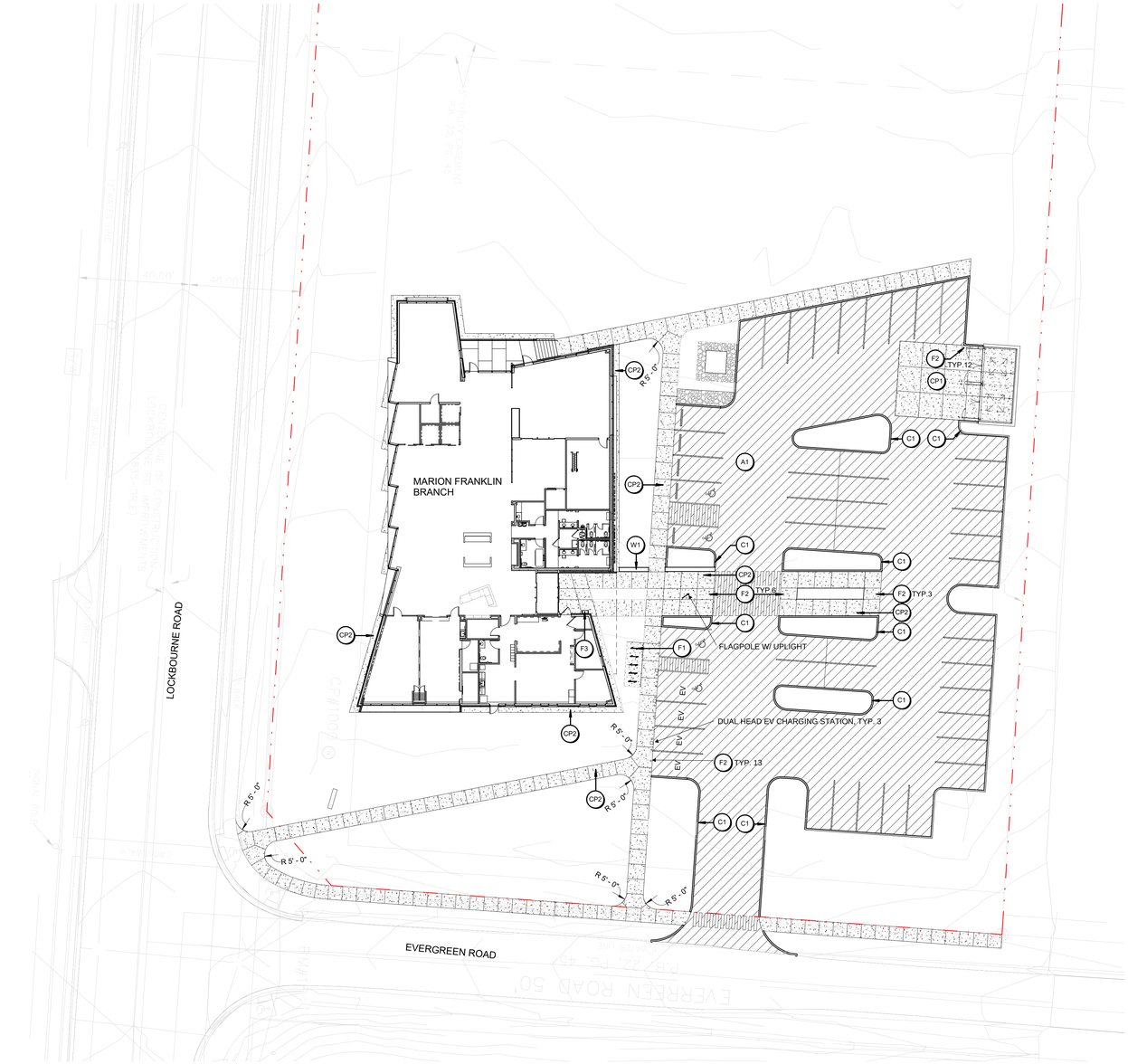
SITE PLAN

L001

11/2/2023

c22302



1 MATERIALS & LAYOUT PLAN
SCALE: 1" = 20'-0"

0' 10 20 40

N

SCHEDULE-PAVEMENT

ITEM CODE	DESCRIPTION	SECTION	COLOR/ FINISH	Comments
A1	ASPHALT_VEHICULAR			
AG1	AGGREGATE_MULCH			
CP1	CONCRETE_HEAVY_DUTY_PAVING	32 13 13		
CP2	CONCRETE_PED_BROOM			

SCHEDULE-WALLS AND CURBS

ITEM CODE	DESCRIPTION	SECTION	COLOR/ FINISH	Comments
C1	CURBS_CONCRETE_6"			
W1	WALL_CONCRETE_18"			

SCHEDULE-FURNITURE

ITEM CODE	DESCRIPTION	SECTION	MANUFACTURER	MODEL	COLOR/ FINISH	QTY
F1	Bike Rack		DUMOR	#83-00G	BLACK	5
F2	Bollard 9" Diameter				paint finish to match existing bollards	30
F3	Trash Receptacle	32 33 00	Site Pieces	Monoline Litter Bin	CHARCOAL	1

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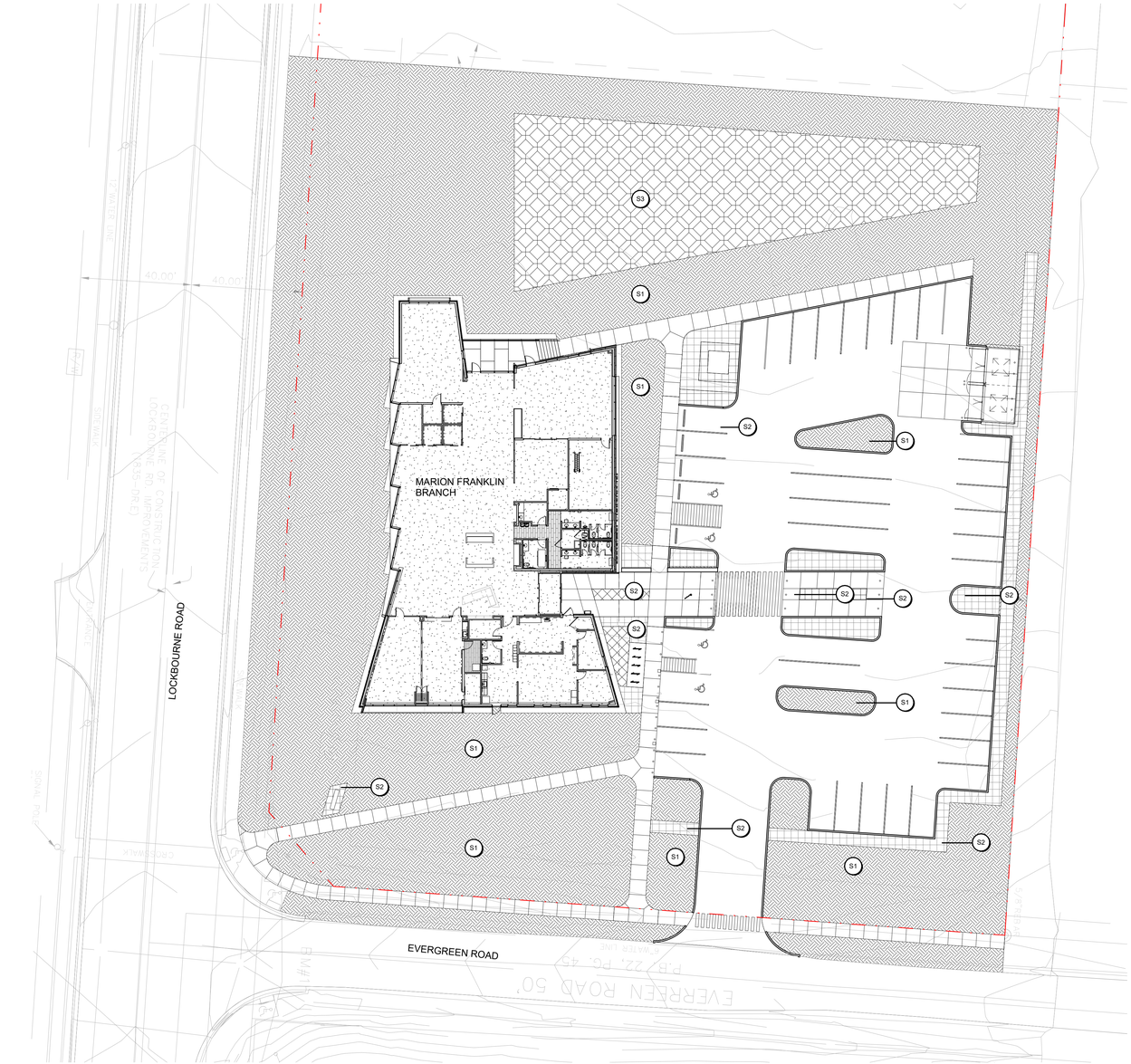
MATERIALS & LAYOUT PLAN

L1.00

11/2/2023

c22302



1 SOILS PLAN
SCALE: 1" = 20'-0"

0' 10 20 40 N

SOILS NOTES

1. DO NOT EXCAVATE WITHIN SOIL PRESERVATION/TREE PROTECTION AREAS UNLESS OTHERWISE INDICATED. REFER TO DEMOLITION PLNA AND/OR TREE PROTECTION PLANS FOR ADDITIONAL INFORMATION.
2. SITE SALVAGED SOILS SCHEDULED FOR REDISTRIBUTION, MUST BE TESTED AND AMENDED OFF-SITE PRIOR TO OWNER'S REPRESENTATIVE ACCEPTANCE FOR USE AND REDISTRIBUTION.
3. SUBGRADE SOILS FOR TURFGRASS AND PLANTING AREAS MUST BE DECOMPACTED BY RIPPING SOILS AS DESCRIBED IN EACH PLANTING SOIL MIX SPECIFICATION
4. AREAS WITHIN GRADING LIMITS OR DISTURBED BY CONSTRUCTION ACTIVITIES SHALL HAVE EXISTING SOILS DECOMPACTED AND REPAIRED TO ORIGINAL STATE OR PROPOSED PROJECT CONDITIONS. OWNER'S REPRESENTATIVE TO REVIEW AND APPROVE SOILS AND REPAIRS PRIOR TO REPAIR WORK COMMENCING.
5. PLANTING SOIL MIX DEPTHS INDICATED ARE POST COMPACTION AND SETTLEMENT DEPTHS REPRESENTING FINAL GRADE WITHIN SPECIFIED COMPACTION AND GRADING TOLERANCES. COMPENSATE FOR SETTLING AND COMPACTION AS NECESSARY.
6. EXCAVATE AND CONFIRM PLANTING AREA SUBGRADES ARE TO THE DEPTHS NOTED ON SOIL DRAWINGS AND DETAILS. WHERE EXCAVATION IS TOO DEEP, BACKFILL WITH EXISTING SOILS AND COMPACT TO 85 - 90% PROCTOR. DO NOT START THE SOIL MIX INSTALLATION UNTIL SUB-GRADE CONDITIONS HAVE BEEN CORRECTED AND APPROVED BY THE LANDSCAPE ARCHITECT.
7. PROJECT MANUAL SPECIFICATIONS FOR PLANTING SOIL MIX AND FINISH GRADING APPLY.

SOILS LEGEND

LABEL	GRAPHIC	ITEM
S1		SOIL PROFILE - LAWN 4" DEPTH
S2		SOIL PROFILE - PLANTING BED 12" DEPTH
S3		SOIL PROFILE - BIORETENTION 18" DEPTH

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Design Development Submittal
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SOILS PLAN

L2.00

11/2/2023

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1 PLANTING PLAN
SCALE: 1" = 20'-0"

PLANTING NOTES

1. SECURE PLANT MATERIAL AS SPECIFIED ON PLANS. SUBSTITUTIONS FOR PLANT MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.
2. PROVIDE PLANT SAMPLES OR PHOTOGRAPHS OF EACH PLANT SPECIFIED TO THE LANDSCAPE ARCHITECT FOR COMPLIANCE REVIEW PRIOR TO INSTALLATION.
3. PROTECT PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE TREES WITH NYLON STRAPS. NO CHAINS OR CABLES WILL BE ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.
4. PLANT MATERIAL DELIVERED TO THE SITE IS SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER INSTALLATION.
5. VERIFY PLANTING PRODUCTS, PLANT MATERIAL, AND PLANT QUANTITIES DELIVERED TO THE SITE MATCH WHAT IS INDICATED ON THE PLANS AND SPECIFICATIONS.
6. STAKE BED LINES AND TREE LOCATIONS FOR THE LANDSCAPE ARCHITECT'S REVIEW PRIOR TO INSTALLATION. PLANTING PROCEDURES ARE SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND AT NO ADDITIONAL COST TO THE OWNER.
7. REFER TO THE PLANTING DETAILS FOR MINIMUM SIZE AND WIDTH OF PLANTING PITS AND BEDS, GUYING AND STAKING, MULCHING, AND OTHER PLANTING REQUIREMENTS.
8. ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK".
9. TEST FILL EACH TREE AND PLANTING PIT WITH WATER, PRIOR TO PLANTING TO ASSURE PROPER SOIL PERCOLATION. PITS WHICH DO NOT ADEQUATELY DRAIN SHALL BE FURTHER SCARIFIED ALONG OUTER EDGES AND SIDES OF PIT. DO NOT DISTURB AREA SUPPORTING TREE BALL. REPEAT TEST. ALLOWANCES WILL NOT BE MADE FOR PLANT MATERIAL LOSS DUE TO IMPROPER DRAINAGE.
10. PLANT MATERIALS, INCLUDING RELOCATED PLANT MATERIAL, SHALL BE PLANTED IN A PROFESSIONAL MANNER TYPICAL TO THE INDUSTRY STANDARDS OF THE AREA TO ASSURE COMPLETE SURVIVABILITY OF PLANT MATERIALS AS WELL AS TO PROVIDE AN AESTHETICALLY APPROVED PROJECT.
11. REMOVE PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE AND SWEEP AND WASH CLEAN PAVED AND FINISHED SURFACES AFFECTED BY THE LANDSCAPE INSTALLATION.
12. PLANTING AREAS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION AND MAINTAINED WEED FREE THROUGH FINAL ACCEPTANCE.

SCHEDULE-TREES, SHRUBS, PERENNIALS, & GRASS

ITEM CODE	BOTANICAL NAME	COMMON NAME	CONDITION	SIZE	COUNT
PERENNIALS					
NE FA	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint			112
SHRUBS					
FO ME	Forsythia 'Meadowlark'	Meadowlark Forsythia	B&B	24"Tx 24"W MIN.	2
IL GL	Ilex glabra 'Densa'	Densa Compact Inkberry			59
IL VE	Ilex verticillata	Mr. Poppins Winterberry	B&B	24"Tx 24"W MIN.	20
JU CH	Juniperus chinensis 'Sea Green'	Sea Green Juniper	B&B	24"Tx 24"W MIN.	88
TREES					
AC FR	Acer x freemanii 'Celzam'	Celebration Maple	B&B	3" CALIPER	12
AM GR	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry		8' CLUMP	4
CH VI	Chionanthus virginicus	White Fringetree	B&B	8' CLUMP	3
GL TR	Gleditsia triacanthos var. inermis	Thornless Honeylocust	B&B	3" CALIPER	8
NY SY	Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	B&B	2" CALIPER	7
QU BI	Quercus bicolor	swamp white oak	B&B	3" CALIPER	10
TH OC	Thuja occidentalis 'Smaragd'	Emerald Arborvitae			28

SCHEDULE-PLANTING

ITEM CODE	BOTANICAL NAME	COMMON NAME	CONDITION
PL1	LAWN	LAWN	
PL2	DETENTION PLANTING		
PE AL	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	#2 CONT.

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PLANTING PLAN

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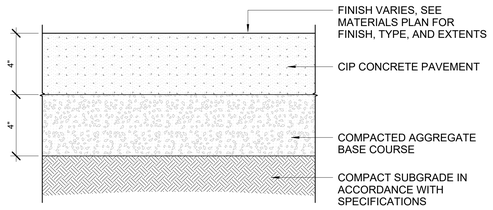
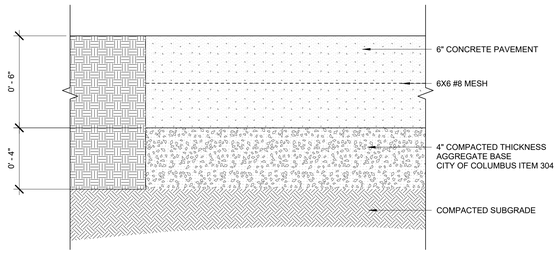
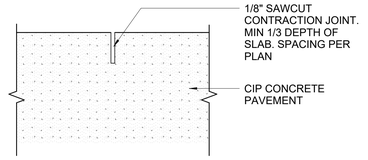
NOTES:
1. EXPANSION AND CONTROL JOINTS AS SHOWN ON PLAN.
2. PROVIDE FINISHING ON CONCRETE SURFACES AFTER EDGE TOOLING. PROVIDE 1/4" RAD. ON ALL SLAB EDGES.
3. CONTRACTOR SHALL SUBMIT A MIX DESIGN FOR REVIEW AND APPROVAL PRIOR TO PAVING.



1 CONCRETE PAVEMENT
SCALE: 3" = 1'-0"

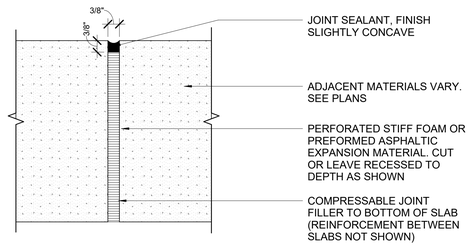


2 DUMPSTER PAD AND APPROACH
SCALE: 3" = 1'-0"

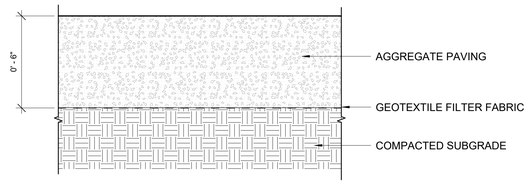


3 SAWCUT / CONTRACTION JOINT
SCALE: 6" = 1'-0"

NOTE:
1. SEE LAYOUT PLANS FOR EXPANSION JOINT LOCATIONS.

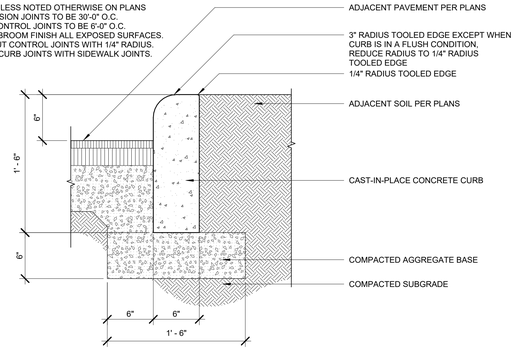


4 EXPANSION / ISOLATION JOINT - TYPICAL
SCALE: 6" = 1'-0"

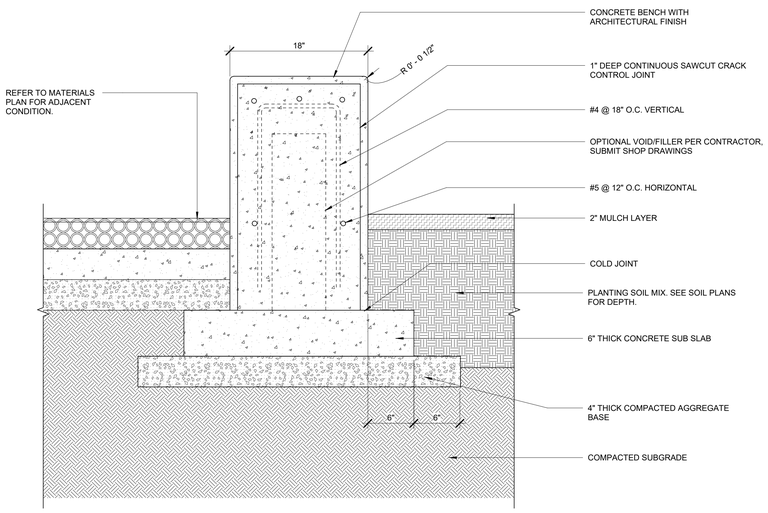


5 AGGREGATE PAVING
SCALE: 3" = 1'-0"

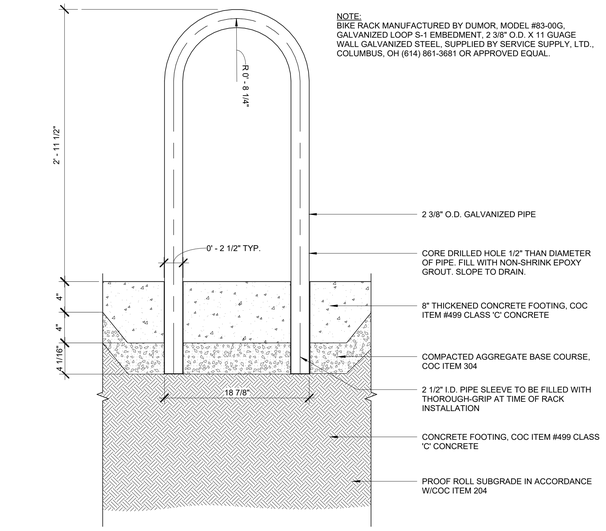
NOTES: UNLESS NOTED OTHERWISE ON PLANS
1. EXPANSION JOINTS TO BE 30'-0" O.C.
2. MAX CONTROL JOINTS TO BE 6'-0" O.C.
3. LIGHT BROOM FINISH ALL EXPOSED SURFACES.
4. SAWCUT CONTROL JOINTS WITH 1/4" RADIUS.
5. ALIGN CURB JOINTS WITH SIDEWALK JOINTS.



6 STRAIGHT CONCRETE CURB - STANDARD 3" RADIUS
SCALE: 1 1/2" = 1'-0"



7 CONCRETE BENCH
SCALE: 1 1/2" = 1'-0"



8 BIKE RACK
SCALE: 1 1/2" = 1'-0"

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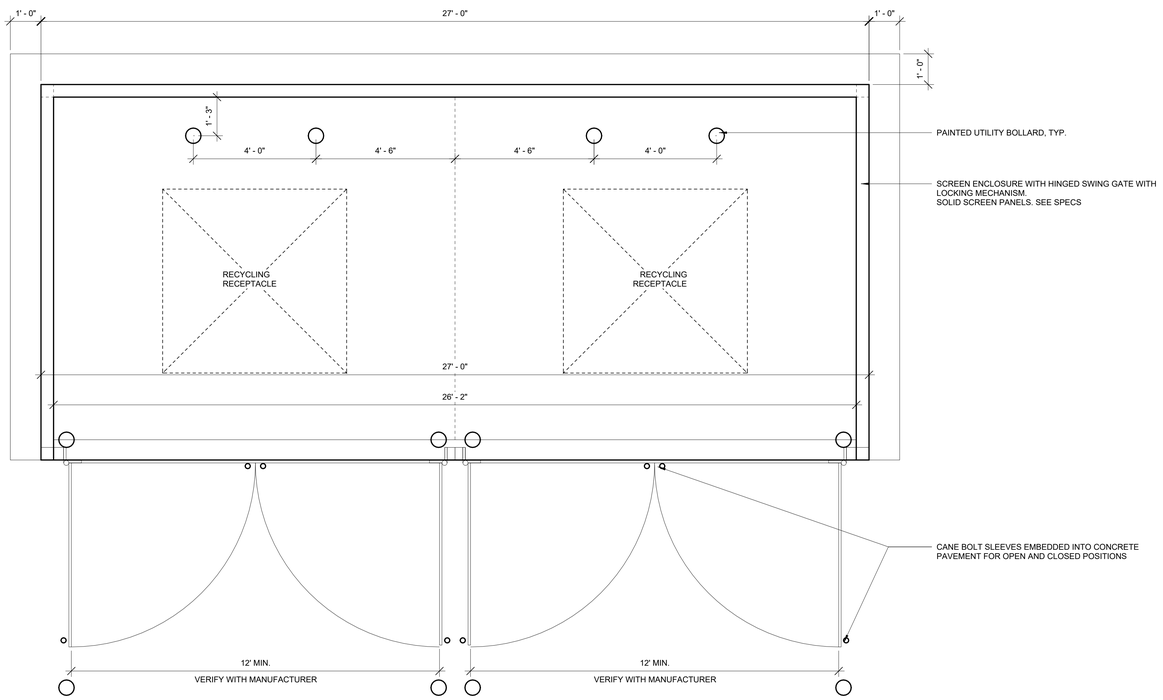
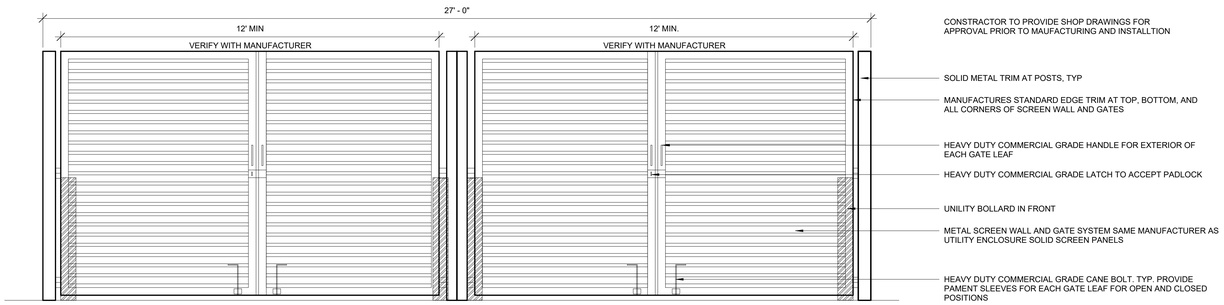


1 DUMPSTER LAYOUT
SCALE: 1/2" = 1'-0"



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

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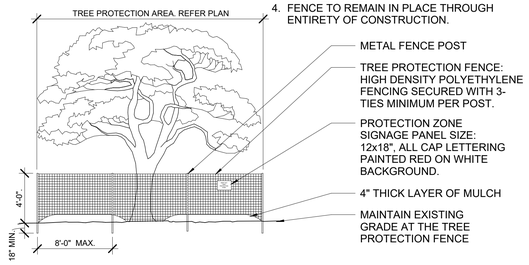
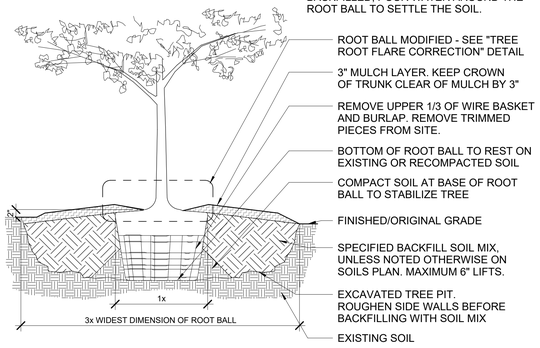
NOTE:
1. SEE SECTION 01 56 39 - TEMPORARY TREE AND PLANT PROTECTION FOR FENCING AND PRUNING REQUIREMENTS.
2. LIMB AND PRUNING OF TREES SHALL BE PERMITTED ONLY AT THE DIRECTION OF THE APPROVED AND CERTIFIED ARBORIST.
3. NO EQUIPMENT SHALL BE PERMITTED INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
4. FENCE TO REMAIN IN PLACE THROUGH ENTIRETY OF CONSTRUCTION.

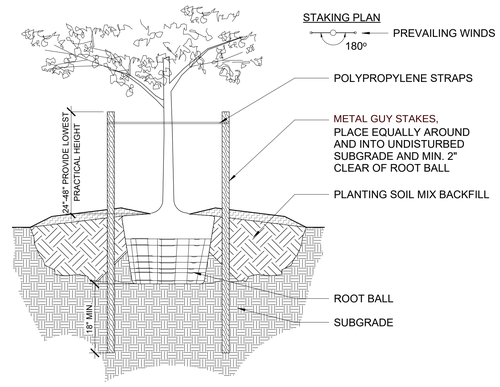


1 TREE PROTECTION ZONE
SCALE:N.T.S.

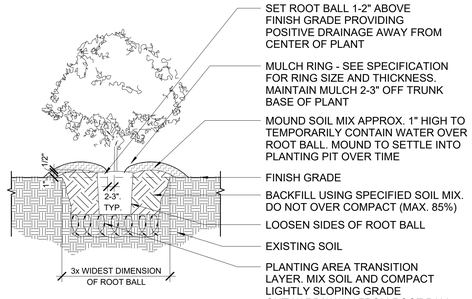
NOTE:
1. POSITION CROWN OF ROOT BALL 2" ABOVE FINISHED GRADE AND ON-CENTER OF EXCAVATED HOLE.
2. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.



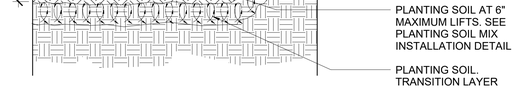
2 TREE PLANTING DETAIL (OPEN AREAS - LAWNS & MEADOWS)
SCALE: 3/4" = 1'-0"



3 TREE STAKING DETAIL (3" CAL.OR SMALLER)
SCALE: 3/4" = 1'-0"

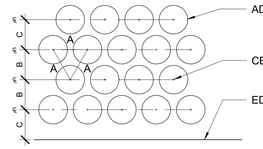


4 SHRUB PLANTING DETAIL (INDIVIDUAL PLANTING)
SCALE: 1" = 1'-0"



5 GRASSES/PERENNIALS/GROUND COVER PLANTINGS
SCALE: 1" = 1'-0"

NOTE:
LAYOUT PLANTS ALONG PERIMETER OF PLANTING BED FIRST, PARALLEL TO AND UNIFORMLY OFFSET FROM EDGE OF BED. FILL OUT INTERIOR OF BED ON UNIFORM GRID AS SHOWN.



"C"=30" SETBACK FOR SHRUBS
18" SETBACK FOR PERENNIALS
12" SETBACK FOR GROUNDCOVER

TRIANGULAR SPACING = A	DISTANCE BETWEEN ROW=B	TOTAL AREA (SF) PER PLANT
6"	5"	0.21
8"	7"	0.39
9"	8"	0.50
10"	8 1/2"	0.59
12" (1')	10 1/2"	0.88
15"	13"	1.35
18"	15 1/2"	1.94
21"	18"	2.63
24" (2')	21"	3.50
30"	26"	5.42
36" (3')	31"	7.80
48" (4')	42"	13.84

6 PLANT SPACING, TRIANGULAR LAYOUT
SCALE: 1" = 1'-0"

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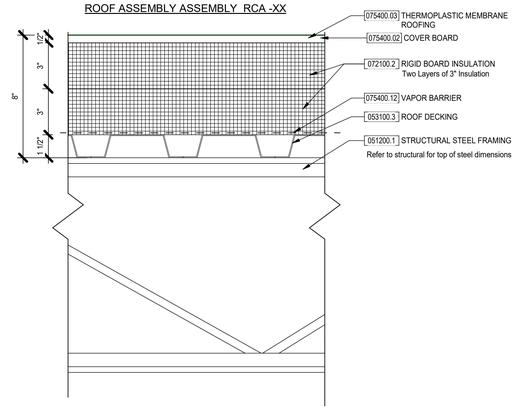
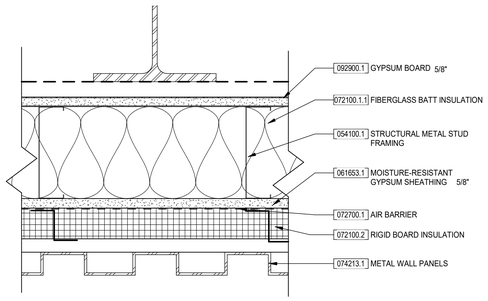
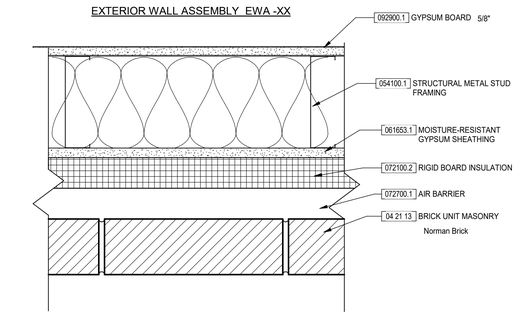
ROOF ASSEMBLY ASSEMBLY RCA -XX



EXTERIOR WALL ASSEMBLY EWA -XX



EXTERIOR WALL ASSEMBLY EWA -XX



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Construction
Assemblies

Architectural

A010

Issue Date

22150

SSMA Product Identification

Member Depth:
(Example 6" = 600X1/100 inches)
All member depths are taken in 1/100 inches.

For all "T" sections member depth is the inside to inside dimension.

Flange Width:
(Example: 1 5/8" = 1.625 x 1/100 inches)
All Flange Widths are taken in 1/100 inches

600 S 162 - 54

Style:
S Stud or Joist Sections
T Track Sections
U Channel Sections
F Furring Chanel Sections
CH Shaftwall Studs

Material Thickness:
(Example: 0.054 in = 54 mils; 1mil = 1/1000 in)
Material thickness is the minimum base metal thickness in mils.
Minimum base metal thickness represents 95% of the design thickness.

Material Thickness

Designation Thickness (mils)	Reference Gauge	*(CSI Spec Division)*
18	25	9 Non-Structural Metal Framing
27	22	
30	20-Drywall	
33	20-Structural	5 Cold Formed Metal Framing
43	18	
54	16	
68	14	
97	12	
118	10	

Unless otherwise indicated by the structural drawings utilize the following:
Cold Formed Metal Framing - 18 gauge (43 mil)
Non-Structural Metal Framing - 20 gauge (30 mil)

Keynote Legend

092216.1	NON-STRUCTURAL METAL FRAMING
092900.1	GYPSUM BOARD

Key for Wood & Metal Stud Partitions

Construction Type:
(CSI Spec Division)

5 Cold Formed Metal Framing
6 Wood Framing
9 Non-Structural Metal Framing

90-X-X

Sheathing Designation:

Size:

	Steel Constsuction		*Wood Construction*	
0	7/8"	*Furring Channel*	-	
1	1 1/2"	*C-Stud*	3/4"	*Furring*
2	2 1/2"	*C-Stud*	4x2	*Stud*
3	3 5/8"	*C-Stud*	-	
4	4"	*C-Stud*	2x4	*Stud*
5	5 1/2"	*C-Stud*	-	
6	6"	*C-Stud*	2x6	*Stud*
8	8"	*C-Stud*	2x8	*Stud*
S2	2 1/2"	*CH-Shaftwall*	-	
S4	4"	*CH-Shaftwall*	-	
V	varies	C-Stud	2x4	Stud

Head Condition:

	Stud Height	*Finish Height*
1	Underside of Ceiling	Underside of Ceiling
2	6" Above Ceiling	6" Above Ceiling
3	Structure Above	Underside of Ceiling
4	Structure Above	6" Above Ceiling

If no condition is noted, stud and finish extend to structure above

Key for Concrete, Masonry & Special Construction

Construction Type:
(CSI Spec Division)

3 Concrete Construction
4 Masonry Construction
13 Special Construction

400-0

Nominal Size
(In Inches)
or
E - Existing

Head Condition:

	Partition Height	*Finish Height*
2	Structure Above	Underside of Ceiling
3	Structure Above	6" Above Ceiling
4	Structure Above	Structure Above

If no condition is noted, partition and finish extend to structure above

Sheathing Designation

	# of Layers	*Material Thickness*	*Material(s)*
A	1	5/8"	Gypsum board on one side, no finish on other side
B	1	5/8"	Gypsum board on each side
C	2	5/8"	Gypsum board on each side
D	1	5/8"	Gypsum board on one side
	1	5/8"	Gypsum board on 1/2" resilient channels other side
E	2	5/8"	Gypsum board on one side
	2	5/8"	Gypsum board on 1/2" resilient channels other side
F	1	5/8"	Gypsum board on one side
	1	1"	Gypsum shaftliner in CH stud
G	2	5/8"	Gypsum board on one side
	1	1"	Gypsum shaftliner in CH stud
H	1	5/8"	Gypsum board on 1/2" OSB on one side
	1	5/8"	Gypsum board on 1/2" resilient channels other side
J	2	5/8"	Gypsum board on 1/2" OSB on one side
	2	5/8"	Gypsum board on 1/2" resilient channels other side

Fire & Smoke Ratings

Smoke Partition
1-Hour Rated Partition
2-Hour Rated Partition
3-Hour Rated Partition

Board Types by Location

Regular Duty Gypsum Board Locations
1. Manager offices
2. Break room
3. Staff privacy room
4. Staff restrooms

Abuse Resistant Gypsum Board Locations (typ. in most spaces)
1. Corridors
2. Storage rooms
3. Mechanical rooms
4. Staff work areas
5. Staff conference room
6. Restroom walls without tile

Cement Board Locations
1. Restroom walls with tile

Fire Rated Walls
1. Type "X" gypsum board minimum - Refer to corresponding UL assemblies for specific requirements. Installed assembly shall correspond to the UL assembly.

Fire Rated Ceilings
1. Type "C" gypsum board minimum - Refer to corresponding UL assemblies for specific requirements. Installed assembly shall correspond to the UL assembly.

Partition General Notes

1. Interior partitions shall utilize wall board types in accordance with the table "Board Types by Location".
2. Partitions to be rated as shown on floor plans.
3. Fire rated assemblies shall be installed in accordance with the specified UL Assemblies, including dimensions, manufacturers, products, fastenings, and other such requirements.
4. Extend all walls to the underside of the structure unless noted otherwise.
5. Wall assemblies that allow horizontal travel within the concealed wall space shall be fire-blocked at 10'-0" O.C. maximum, in accordance with O.B.C. Section 717.2, including assemblies utilizing resilient channels.
6. Interior partitions are to be acoustic in accordance with the table "Acoustic Partitions by Location".

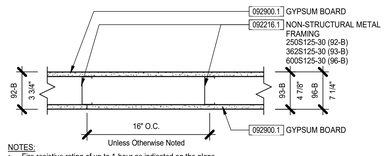
Acoustic Partitions by Location

Acoustic partitions are indicated on plans with insulation fill and keynote [092900.3].

All acoustic partitions shall have acoustical sealant at all perimeter joints and penetration joints for both sides of the wall. Openings in the finish membrane for opposite sides of the wall shall be offset at least 16". All wall boxes shall be wrapped in acoustic putty pads.

##/A###

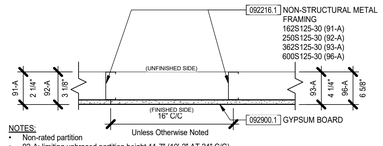
PARTITION TYPES: 92-B, 93-B & 96-B



NOTES:
- Fire resistive rating of up to 1-hour as indicated on the plans
- Construct rated assemblies in accordance with ANSI/UL 263 design:BXUV.U419
- 92-B: limiting unbraced partition height 11-7" (10'-2" AT 24" C/C)
- 93-B: limiting unbraced partition height 13'-6" (11'-8" at 24" C/C)
- 96-B: limiting unbraced partition height 20'-0" (16'-8" at 24" C/C)
- Non-loadbearing partition

##/A###

PARTITION TYPES: 91-A, 92-A, 93-A & 96-A



NOTES:
- Non-rated partition
- 92-A: limiting unbraced partition height 11-7" (10'-2" AT 24" C/C)
- 93-A: limiting unbraced partition height 13'-6" (11'-8" at 24" C/C)
- 96-A: limiting unbraced partition height 20'-0" (16'-8" at 24" C/C)
- Non-loadbearing partition
- Provide 1" space between unfinished side and adjacent concrete or masonry walls
- At type 91-A walls all electrical boxes shall be 1 1/4" max depth. Coordinate with electrical drawings.

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
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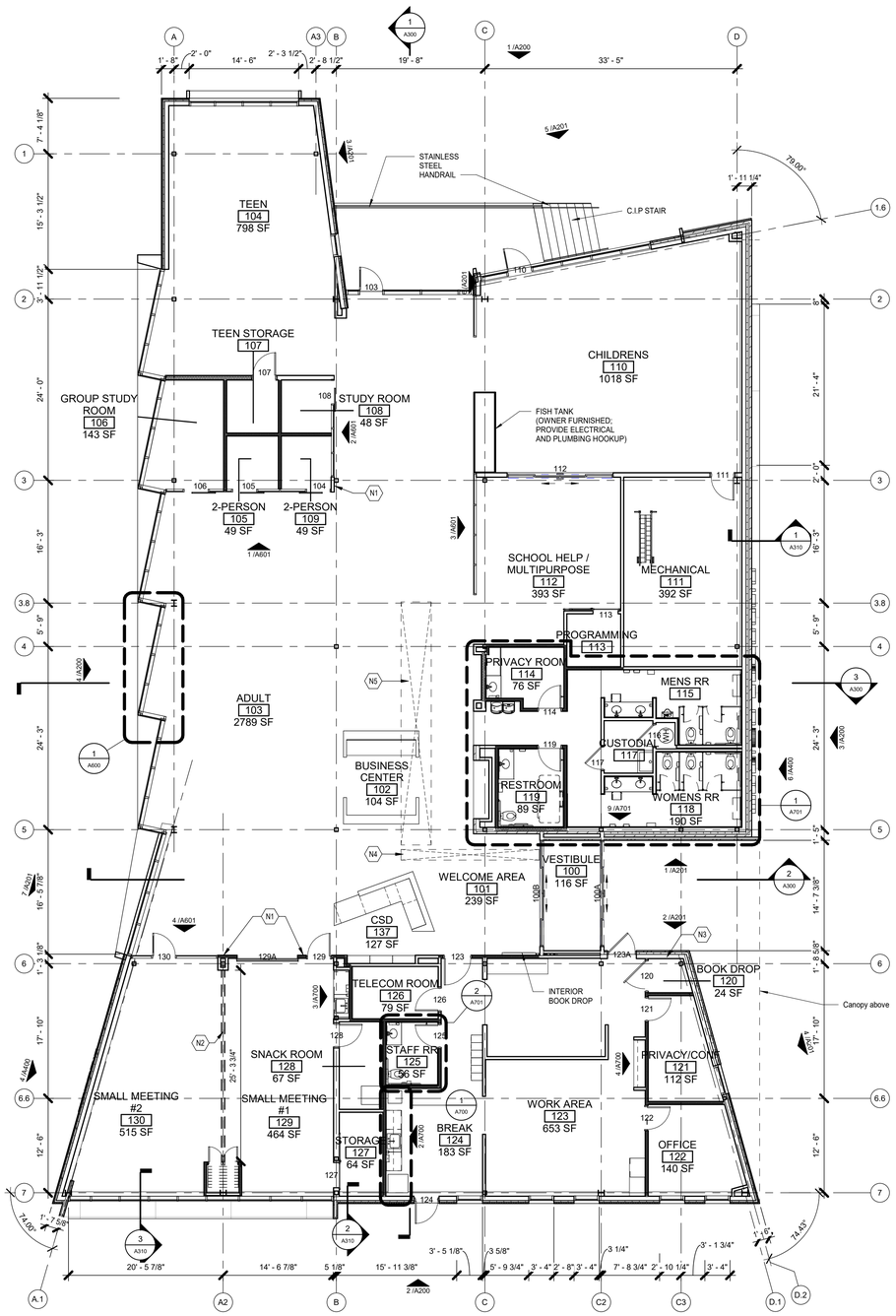
NOT FOR CONSTRUCTION

Wall Partitions

Architectural
A020

Issue Date

22150



1 First Floor Plan
1/8" = 1'-0"

NEW WORK - GENERAL NOTES

A. The Contractor should inform the Architect if conflicts exist between drawings.

B. Refer to Door and Frame Schedule for all door requirements and opening details.

C. In the case of minor discrepencies between MEP and Architectural drawings in the location of ceiling-mounted components, the Architectural Reflected Ceiling Plan shall govern. In the case of major discrepencies, the Architect shall be notified of the discrepancy when the issue is discovered and before proceeding with the work.

D. The Contractor shall provide access panels in hard ceilings as required for the inspection of equipment above the ceiling.

E. All new ceiling grids to be centered within a space unless noted otherwise.

F. Unless noted otherwise, all fixtures and ceiling-mounted equipment to be mounted in the center of the room, ceiling tile, or space.

G. All walls of all rooms with exposed structure ceilings to extend and seal to the structure above.

H. The Contractor shall channel and patch all existing walls where new utilities are to be concealed within it. It is the intent for all utilities to be buried within the walls or not visible (above ceiling). Work to be xoordinated with Architect and routing paths to be approved

I. Refer to finish Plans for locations of Built-ins/feature wall finishes

J. All dimensions are to face of finish or to center line of column, unless noted otherwise

NEW WORK CODED NOTES

N1 Room scheduler. See Electrial and Technology drawings.

N2 Operable Partition. See detail AXXX. See Specification 10 22 26

N3 Exterior Book Drop Box. See Specification 11 51 16

N4 GWB Recessed 3'-6" above. See sheet A151

N5 Open to roof monitor above. See sheet A151

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Design Development Submittal 11/2/2023

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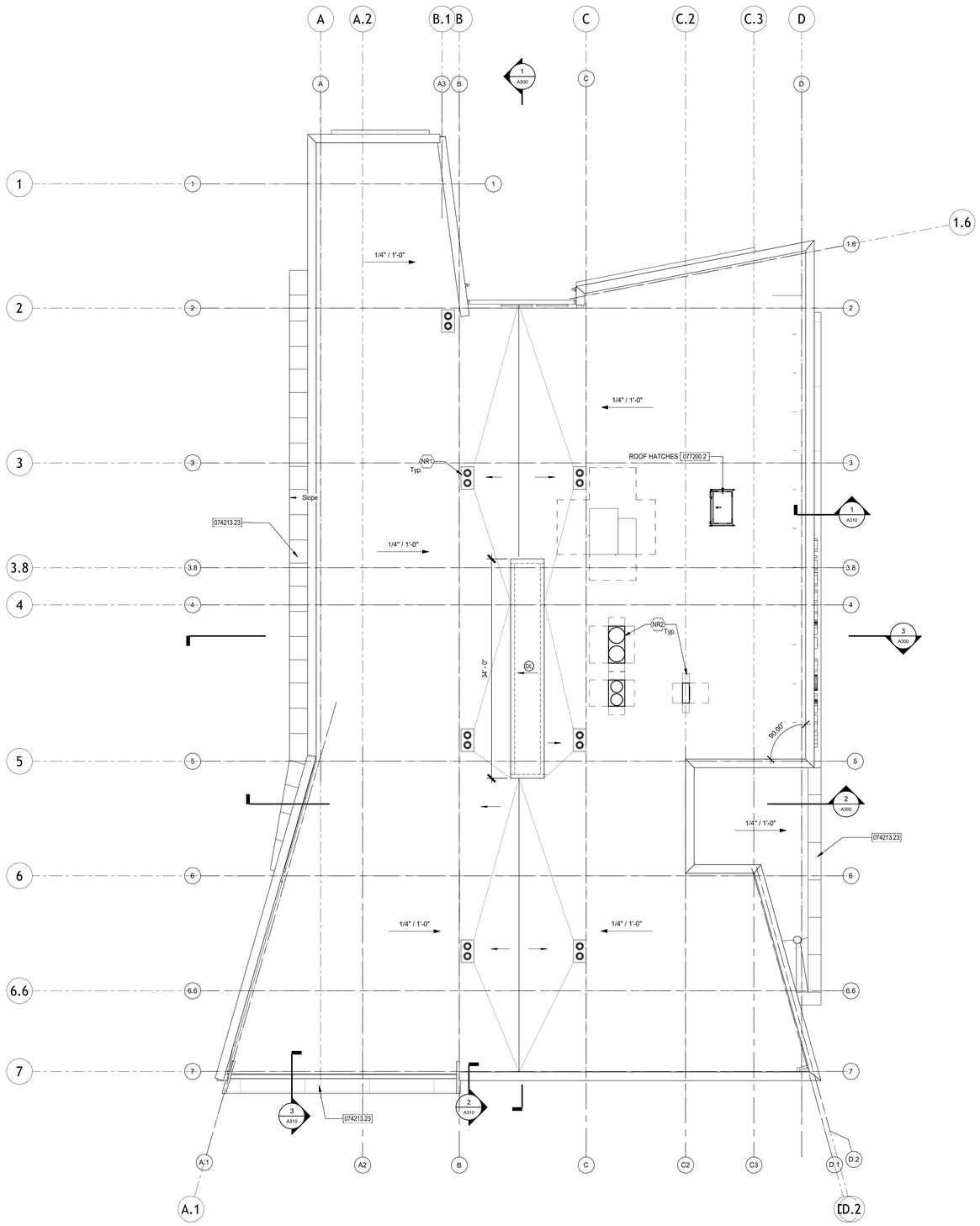
First Floor Plan

Architectural
A101

Issue Date

22150



1 Roof Plan
1/8" = 1'-0"

ROOF NEW WORK - GENERAL NOTES

A. All new roof surfaces must slope to drain

B. The new roofing assembly shall achieve an average thermal value of R-25 continuous insulation

C. 8" of flashing height typical throughout.

D. Provide roofing manufacturers standard details for roofing penetrations not shown in drawings

E. All roofing areas outside of scope that are damaged/altered during new work shall be properly repaired, patched or replaced be the G.C.

F. Coping at brick painted to match brick . Typ.

G. Coping at Curtain wall (CW) painted to match mullions. Typ.

H. Coping at Metal Panels painted to match. Typ.

NEW WORK ROOF PLAN CODED...

NR1 New roof drain and overflow; See Plumbing drawings. Typ.

NR2 Mechanical Equipment. See Mechanical Drawings Typ.

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11/2/2023

Revision Schedule		
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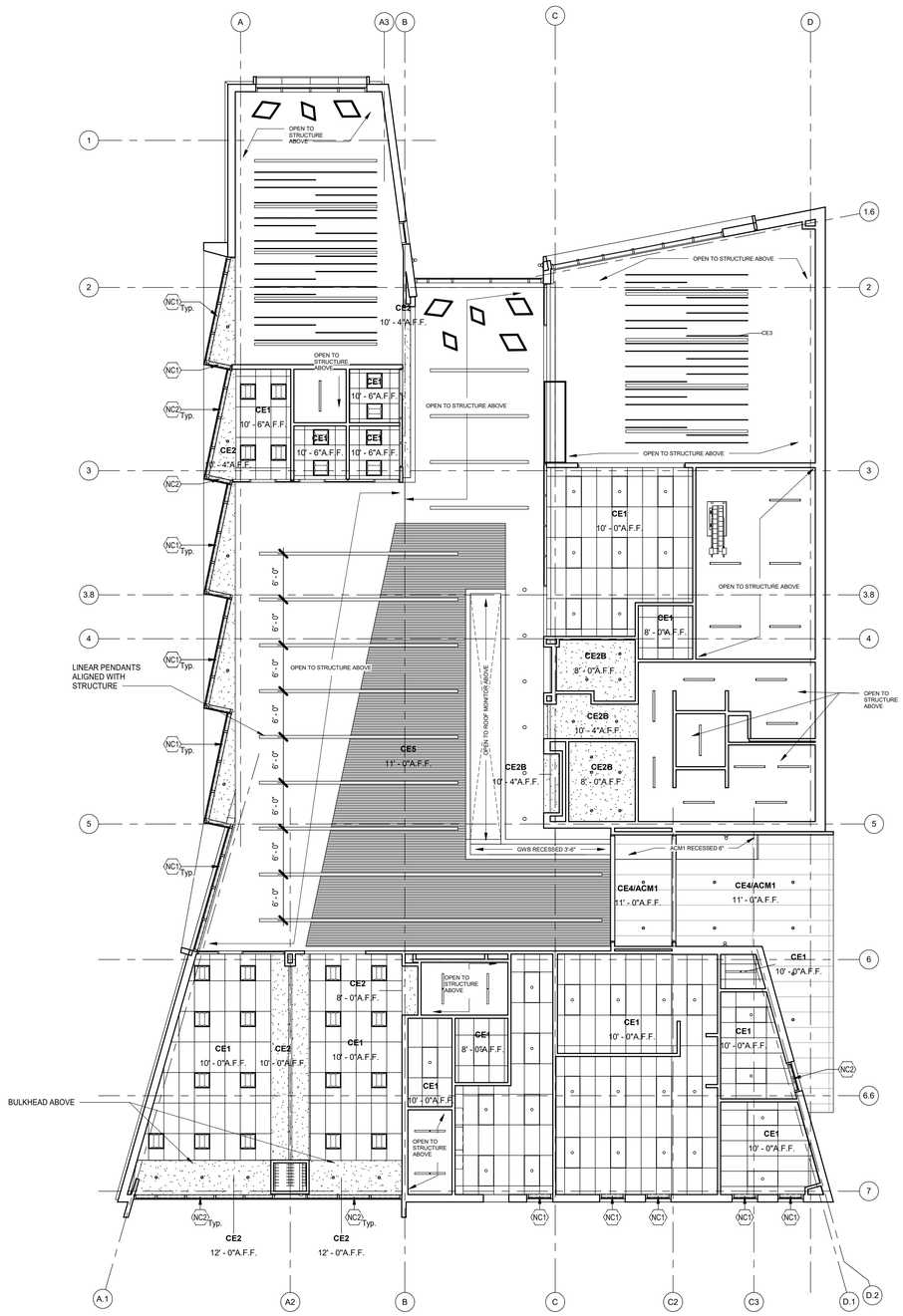
NOT FOR CONSTRUCTION

Roof Plan

A102

Issue Date

22150



1 Reflected Ceiling Plan
1/8" = 1'-0"

REFLECTED CEILING PLAN - GENERAL NOTES

A. ALL HANGING LIGHTS 11'-0" A.F.F.
B. CENTER ALL ACT GRIDS TO ROOM
C. PAINT ALL EXPOSED CEILINGS WHITE, SEE ARCHITECT FOR COLOR
D. CE2 BULKHEAD AT SKYLIGHTS. PROVIDE LED STRIP LIGHT ACCENT AT SKYLIGHTS.

NEW WORK RCP CODED NOTES

NC1 Provide Motorized Window Shade 122413.1.1, 5% Open. See Spec for more information.
NC2 Provide Motorized Double Window Shade 122413.1.2, 5% Open And Blackout. See Spec For More Information.

REFLECTED CEILING PLAN LEGEND

- CE1 - 2x4 ACT
- CE2 - Gypsum Board
- CE2B- Gypsum Board Moisture Resistant
- CE3 - Felt Ceiling
- CE4 - ACM Panels
- CE5 - Interior Wood Panel Ceiling
- Open to structure above

REFER TO MATERIALS LIST AND INTERIOR FINISH SCHEDULE FOR MORE INFORMATION

LIGHTING LEGEND

- 4" RECESSED CAN
- 2X2 RECESSED
- 2X4 RECESSED
- 4' IN HUNG STRIP LIGHT
- 4" EXTERIOR WALL LIGHT
- 48" AND 32" DECORATIVE FIXTURE
- 4" fully recessed linear LED slot light
- 6" RECESSED CAN

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Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

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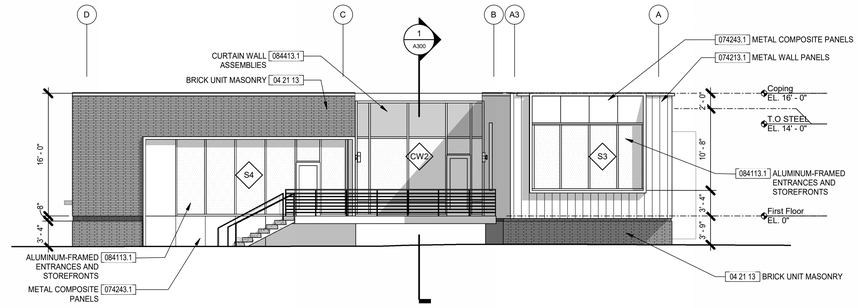
NOT FOR CONSTRUCTION

Reflected Ceiling Plan

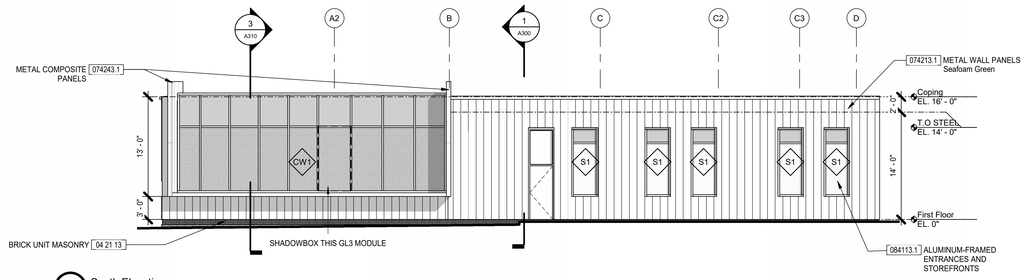
A151

Issue Date

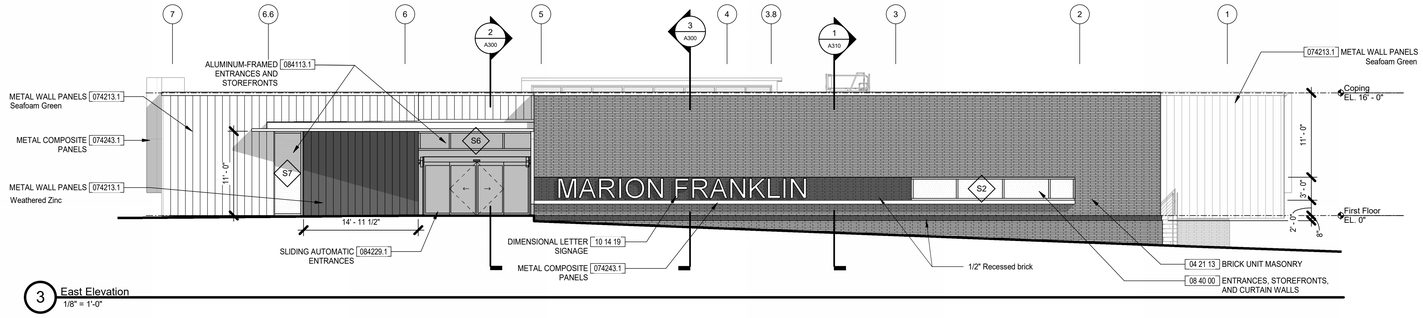
22150



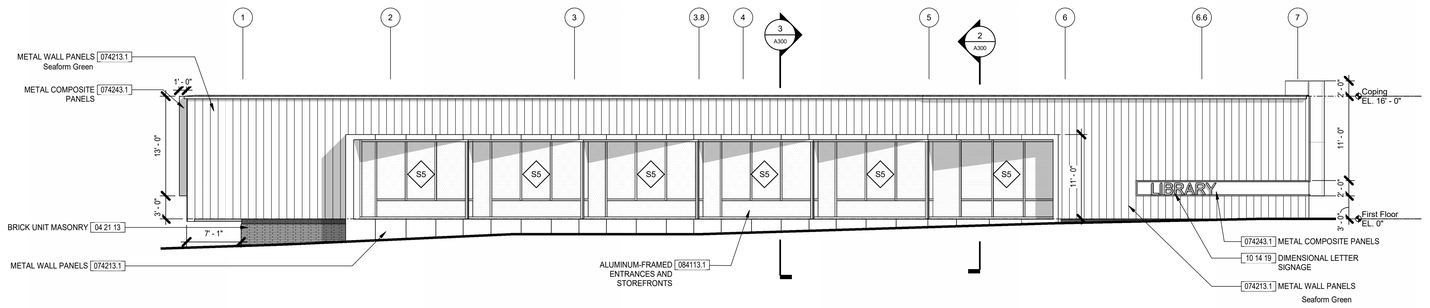
1 North Elevation
1/8" = 1'-0"



2 South Elevation
1/8" = 1'-0"



3 East Elevation
1/8" = 1'-0"



4 West Elevation
1/8" = 1'-0"

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Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule

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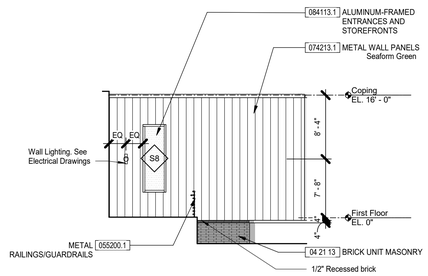
Exterior Elevations

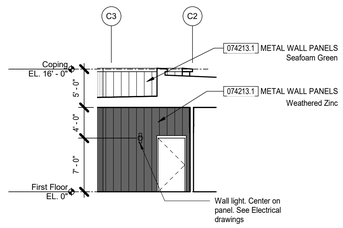
A200

Issue Date

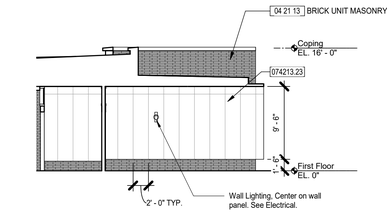
22150



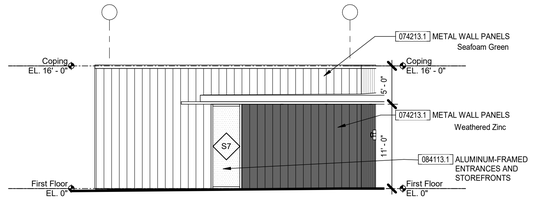
3 Partial East Elevation
1/8" = 1'-0"



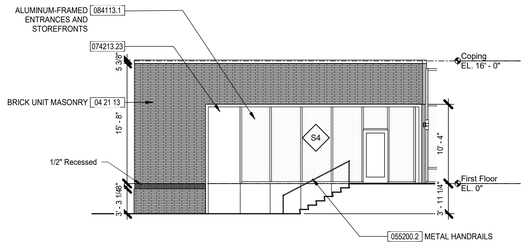
2 Partial South Elevation - Entry
1/8" = 1'-0"



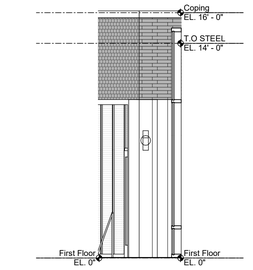
1 Partial North Elevation - Entry
1/8" = 1'-0"



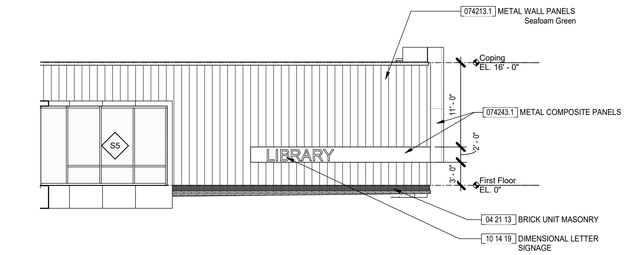
4 East Elevation A
1/8" = 1'-0"



5 Partial North Elevation
1/8" = 1'-0"



6 Partial South East Wall
1/4" = 1'-0"



7 West Elevation B
1/8" = 1'-0"

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Revision Schedule		
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CML Marion Franklin Branch

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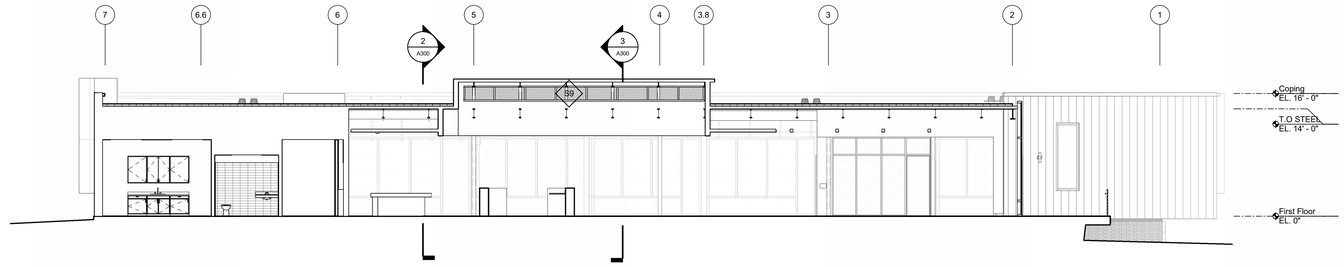
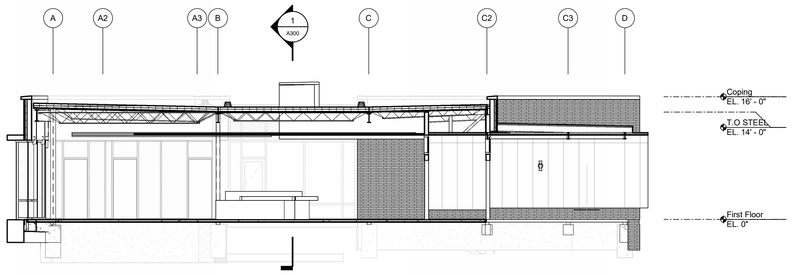
Partial Exterior Elevations

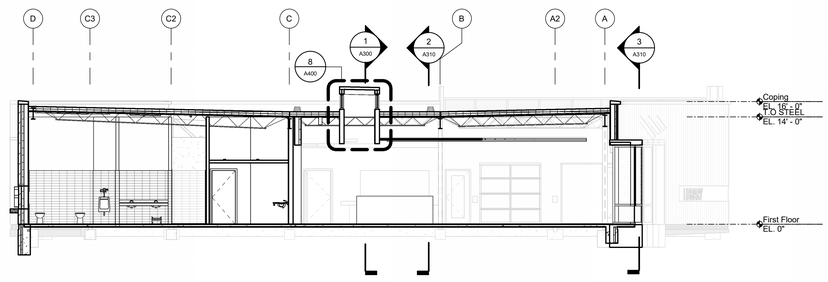
Architectural
A201
Issue Date
22150



1 Overall North South
1/8" = 1'-0"



2 Overall East West
1/8" = 1'-0"



3 East - West Section through clerestory
1/8" = 1'-0"

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Revision Schedule

No.	Description	Date

CML Marion
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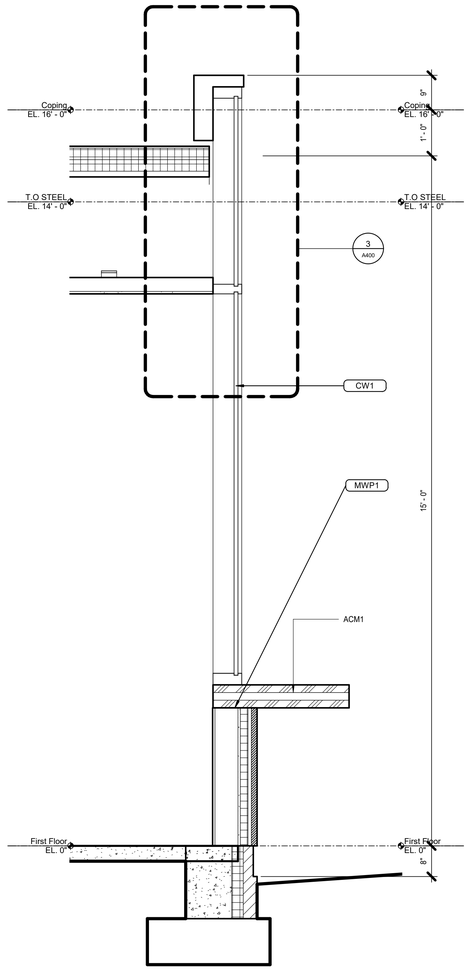
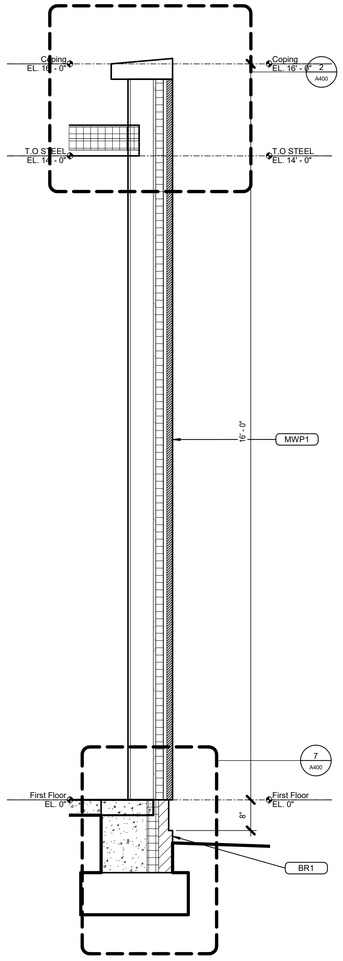
NOT FOR CONSTRUCTION

Building Sections

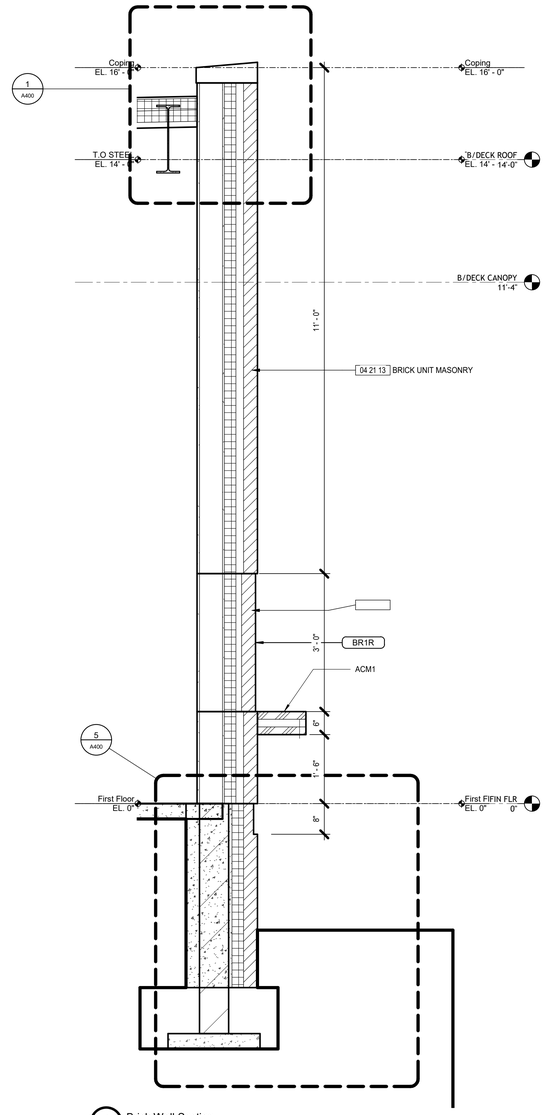
Architectural
A300
Issue Date
22150



3 Curtain Wall Section
3/4" = 1'-0"



2 Metal Panel Section
3/4" = 1'-0"



1 Brick Wall Section
3/4" = 1'-0"

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NOT FOR CONSTRUCTION

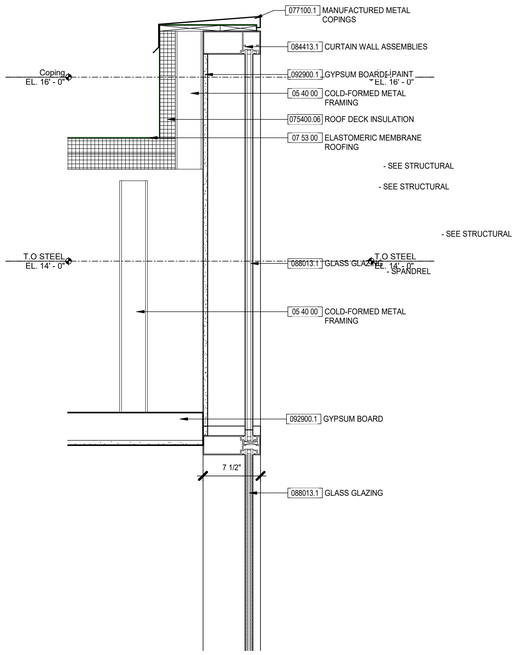
Wall Sections

Architectural

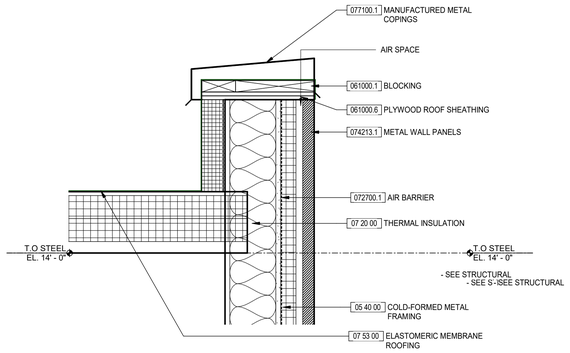
A310

Issue Date

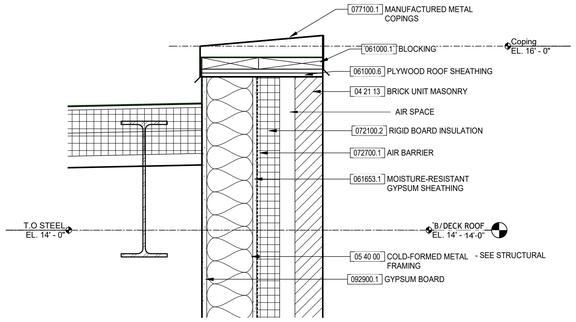
22150



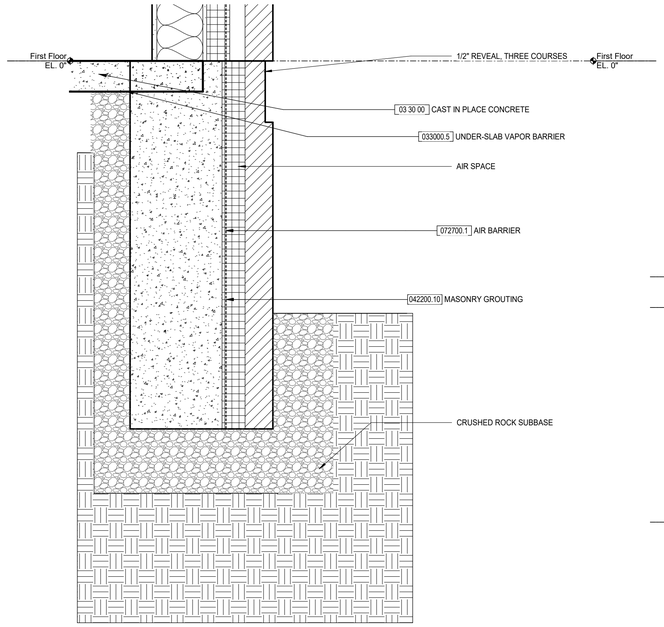
3 Curtain Wall Section - Callout 1
1 1/2" = 1'-0"



2 Metal Panel Section - Callout 2
1 1/2" = 1'-0"

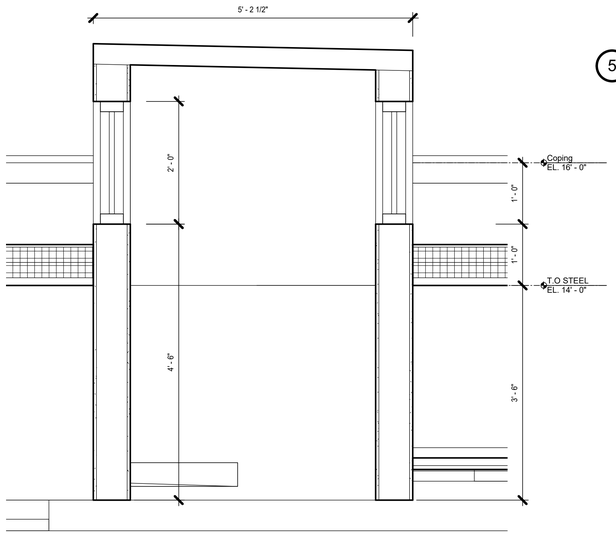


1 Brick Wall Section - Callout 2
1 1/2" = 1'-0"

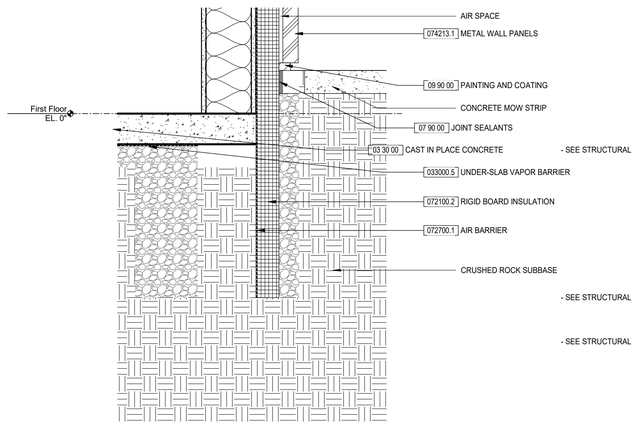


5 Brick Wall Section - Callout 1
1 1/2" = 1'-0"

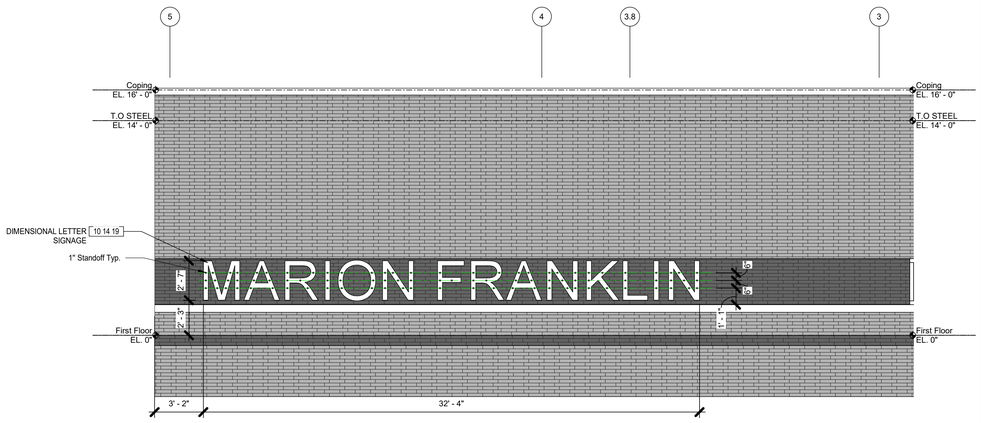
4 Front Sign Elevation
1/4" = 1'-0"



8 Clerestory section
1" = 1'-0"



7 Metal Panel Section - Callout 1
1 1/2" = 1'-0"



6 Back Sign Elevation
1/4" = 1'-0"

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MEP Engineer
Advanced Engineering Consultants
1405 Dublin Rd, Columbus OH 43215

Drawing Issue Dates

Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion Franklin Branch

Lockbourne Road, between Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

Exterior Details

Architectural
A400

Issue Date
22150

GLAZING LEGEND

GL-1: 1" insulated laminated tempered glazing

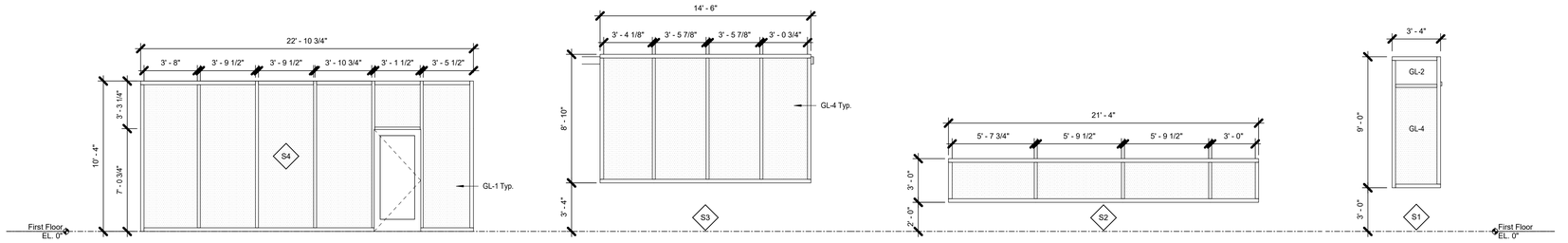
GL-2: 1" Spandrel glazing

GL-3: 1" insulated glazing with frit

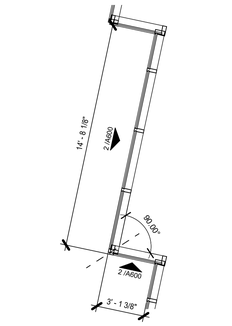
GL-4: 1" insulated non-tempered glazing

GL-5: 1/4" tempered glazing

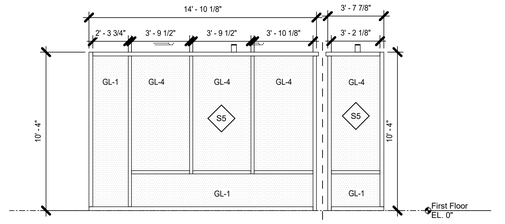
GL-6: 1/4" clear glazing



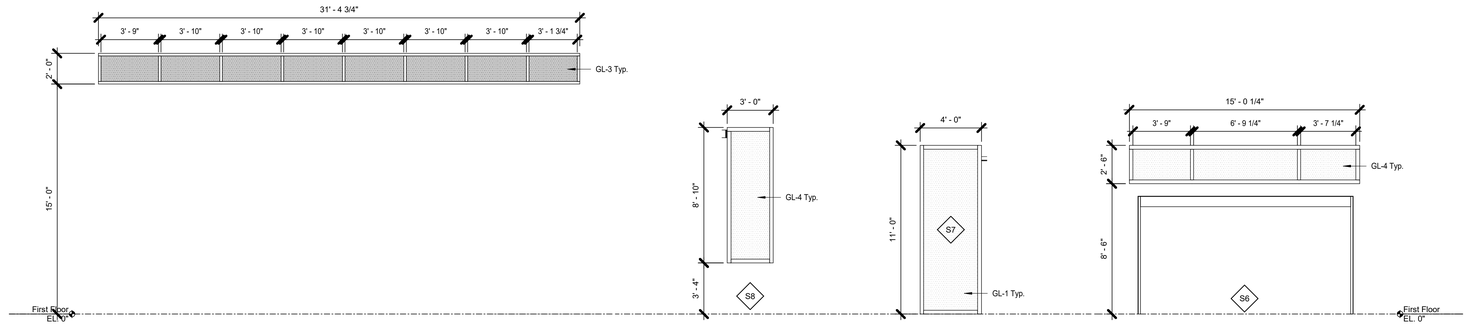
STOREFRONT PROFILE



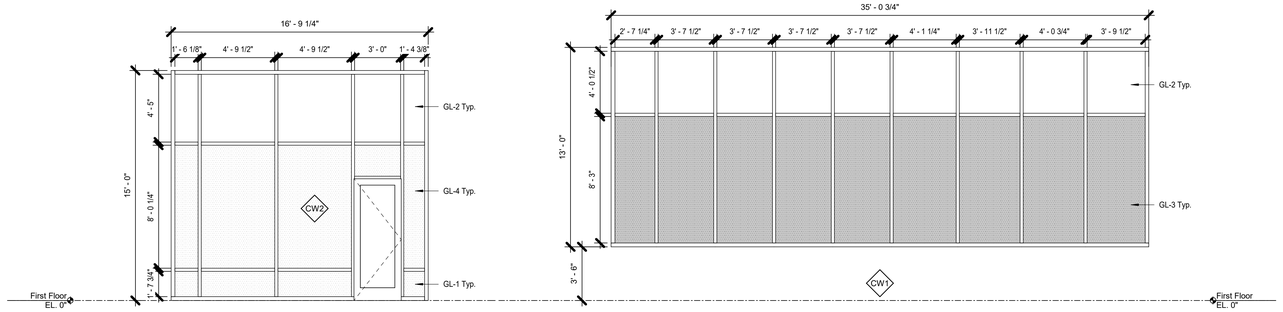
1 Sawtooth Window Enlarged Plan
1/4" = 1'-0"



STOREFRONT PROFILE



STOREFRONT PROFILE



CURTAIN WALL PROFILE

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11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

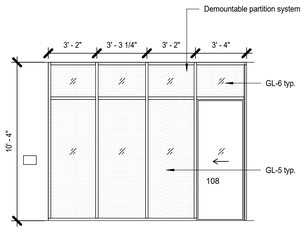
Window Legend
and Details

Architectural

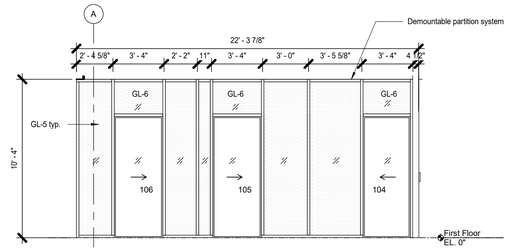
A600

Issue Date

22150



2 Study Rooms Elevation 2
1/4" = 1'-0"



1 Study Rooms Elevation 1
1/4" = 1'-0"

GLAZING LEGEND

GL-1: 1" insulated laminated tempered glazing

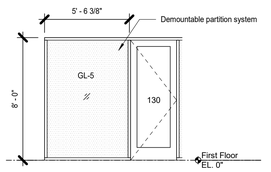
GL-2: 1" Spandrel glazing

GL-3: 1" insulated glazing with frit

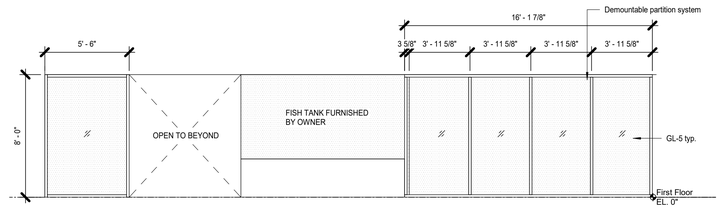
GL-4: 1" insulated non-tempered glazing

GL-5: 1/4" tempered glazing

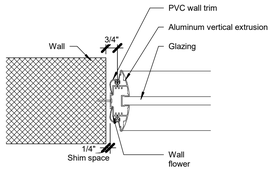
GL-6: 1/4" clear glazing



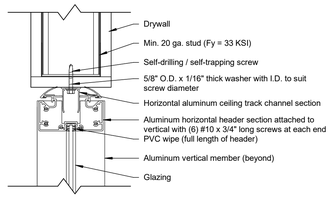
4 Small Meeting Rm #130
1/4" = 1'-0"



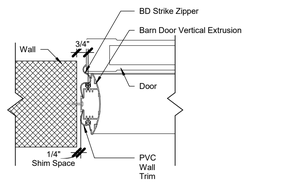
3 School Help and Children Glazing Elevation
1/4" = 1'-0"



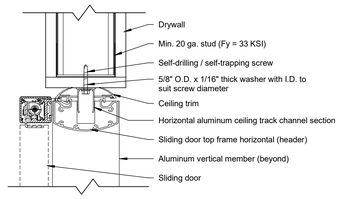
6 Demountable Detail 2 - Wall Jamb
3" = 1'-0"



5 Demountable Detail 1 - Wall Head
3" = 1'-0"



8 Demountable Detail 4 - Door Jamb
3" = 1'-0"



7 Demountable Detail 3 - Door Head
3" = 1'-0"

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Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

Interior Storefront
and Demountables

A601

Issue Date

22150

Door & Frame Schedule

DOOR MARK	DOOR TYPE	SIZE W	SIZE H	SIZE THK	DOOR FINISH	GLAZING TYPE	FRAME TYPE	FRAME FINISH	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	FIRE RATING	HARDWARE SET NO	HARDWARE ELECTRICAL	REMARKS
First Floor															
100A	SD1	13' - 8 1/2"	7' - 0"	1 3/4"	FF	GL-1	-	FF				-		Y	
100B	SD1	13' - 8 1/2"	7' - 0"	1 3/4"	FF	GL-1	-	FF				-		Y	
103	AL1	3' - 1"	7' - 11 1/4"	1 3/4"	FF	GL-1	-	FF				-		Y	
104	IA2	3' - 1"	7' - 11"	1 3/4"	FF	GL-5	-	FF						-	Sliding
105	IA2	3' - 2"	7' - 11"	1 3/4"	FF	GL-5	-	FF				-		-	Sliding
106	IA2	3' - 2"	7' - 11"	1 3/4"	FF	GL-5	-	FF				-		-	Sliding
107	HM1	3' - 0"	7' - 0"	1 3/4"	PT		FH1	PT				-		-	
108	IA2	3' - 1"	7' - 11"	1 3/4"	FF	GL-5	-	FF				-		-	Sliding
110	AL1	3' - 2 1/2"	7' - 0"	1 3/4"	FF	GL-1	-	FF				-		-	
111	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		Y	
112	IA1	13' - 8 1/2"	7' - 0"	1 3/4"	FF	GL-5	-	FF				-		-	
113	WD1	3' - 4"	7' - 0"	1 3/4"	TR	-	-	TR				-		-	Sliding
114	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		-	
116	HM1	2' - 10"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		-	
117	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		Y	
119	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		-	
120	HM1	4' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				45		-	
121	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		-	
122	HM2	3' - 0"	7' - 0"	1 3/4"	PT	GL-5	FH1	PT				-		-	
123	HM1	3' - 6"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		Y	
123A	HM1	3' - 6"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		Y	Insulated
124	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH3	PT				-		Y	Insulated
125	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		-	
126	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		-	
127	WD1	3' - 4"	7' - 0"	1 3/4"	TR	-	-	TR				-		-	Sliding
128	HM1	3' - 0"	7' - 0"	1 3/4"	PT	-	FH1	PT				-		Y	
129	AL1	3' - 0"	7' - 0"	1 3/4"	FF	GL-5	FA1	FF				-		-	
129A	GD1	8' - 0"	8' - 0"	2 1/8"	FF	GL-5	-	FF				-		-	Sectional Door
130	AL1	3' - 0"	7' - 10"	1 3/4"	FF	GL-5	-	FF				-		-	

DOOR NOTES

A. NUMBER:
The door number matches the room number. When more than one door exists per room, the first door is followed with "A", the second door "B", etc.

B. All interior doors are to have a 3/4" undercut U.N.O.

C. MATERIAL;
AL - Aluminum
HM - Hollow Metal
WD - Wood

D. FINISH:
CA - Clear Annodized
FF - Factory Finish
PT - Paint - Shop Prime Only
TR - Transparent Finish

E. GLAZING: See Specifications.

GL-1: 1" insulated laminated tempered glazing

GL-2: 1" Spandrel glazing

GL-3: 1" insulated glazing with frit

GL-4: 1" insulated non-tempered glazing

GL-5: 1/4" tempered glazing

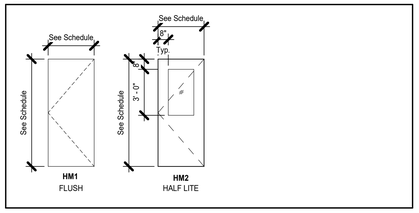
GL-6: 1/4" clear glazing

F. FIRE RATING:
Rating of door in minutes.

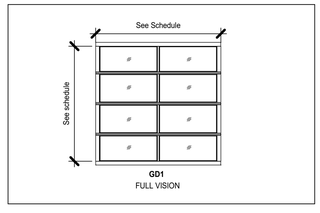
G. HARDWARE SET:
See specifications for description of hardware sets.

H. ELECTRICAL:
Electrical contractor to provide power to door hardware power supply.

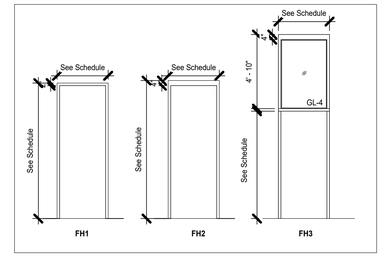
081113.1 - HOLLOW METAL DOOR TYPES



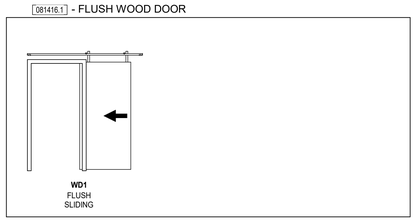
083613.1 - SECTIONAL DOOR



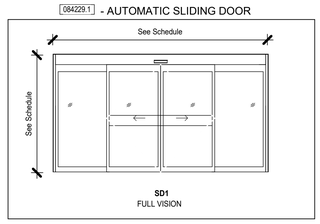
081113.2 - HOLLOW METAL FRAME TYPES



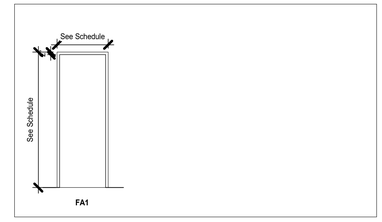
081416.1 - FLUSH WOOD DOOR



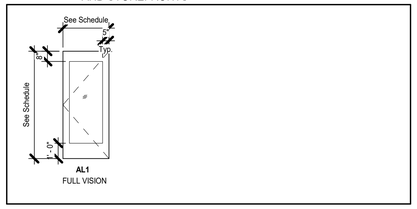
084229.1 - AUTOMATIC SLIDING DOOR



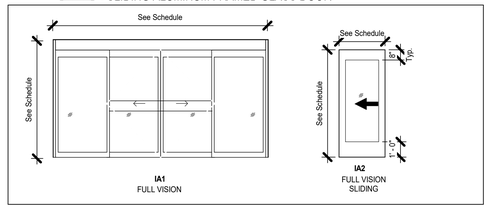
084113.1 - ALUMINUM FRAME

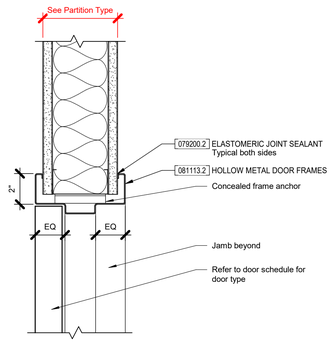


0841131 S1 - ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

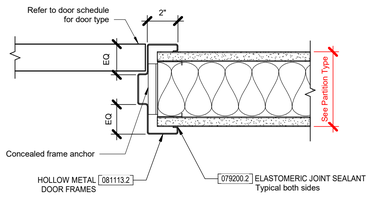


083213.1 - SLIDING ALUMINUM FRAMED GLASS DOOR

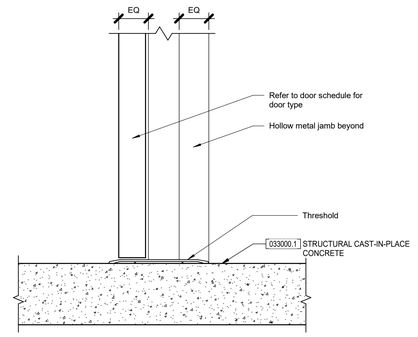




6 Hollow Metal Door and Frame - Head Detail
3" = 1'-0"



7 Hollow Metal Door and Frame - Jamb Detail
3" = 1'-0"



8 Hollow Metal Door and Frame - Sill Detail
3" = 1'-0"

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Design Development Submittal
11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

Door Schedule

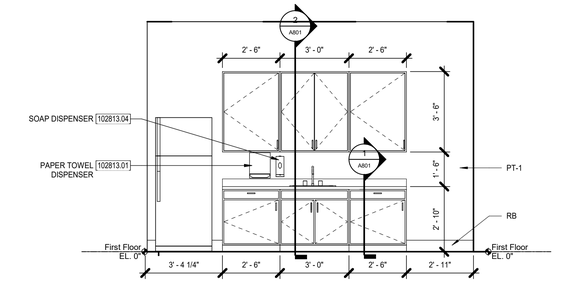
Architectural

A610

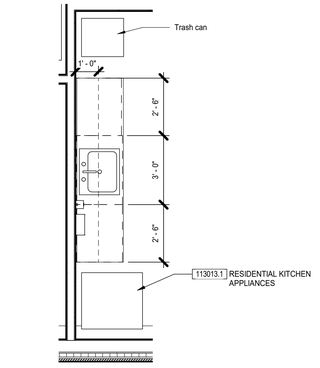
Issue Date

22150

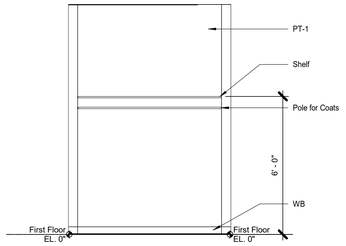
Keynote Legend	
102813.01	PAPER TOWEL DISPENSER
102813.04	SOAP DISPENSER
113013.1	RESIDENTIAL KITCHEN APPLIANCES



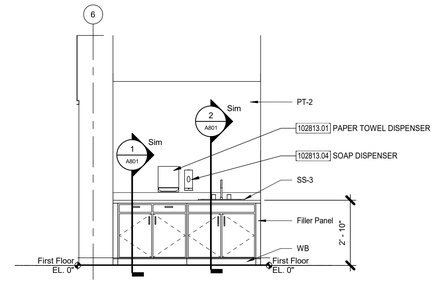
2 Break Room Kitchen Elevation
3/8" = 1'-0"



1 Enlarged Break Room Kitchen Plan
3/8" = 1'-0"



4 Work Area Coat Niche Elevation
3/8" = 1'-0"



3 Small Meeting Room #1 Counter Elevation
3/8" = 1'-0"

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

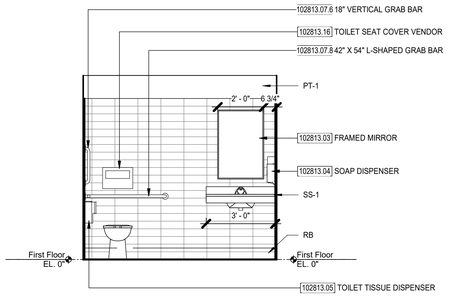
Enlarged Plans &
Interior Elevations

Architectural

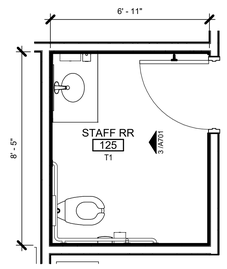
A700

Issue Date

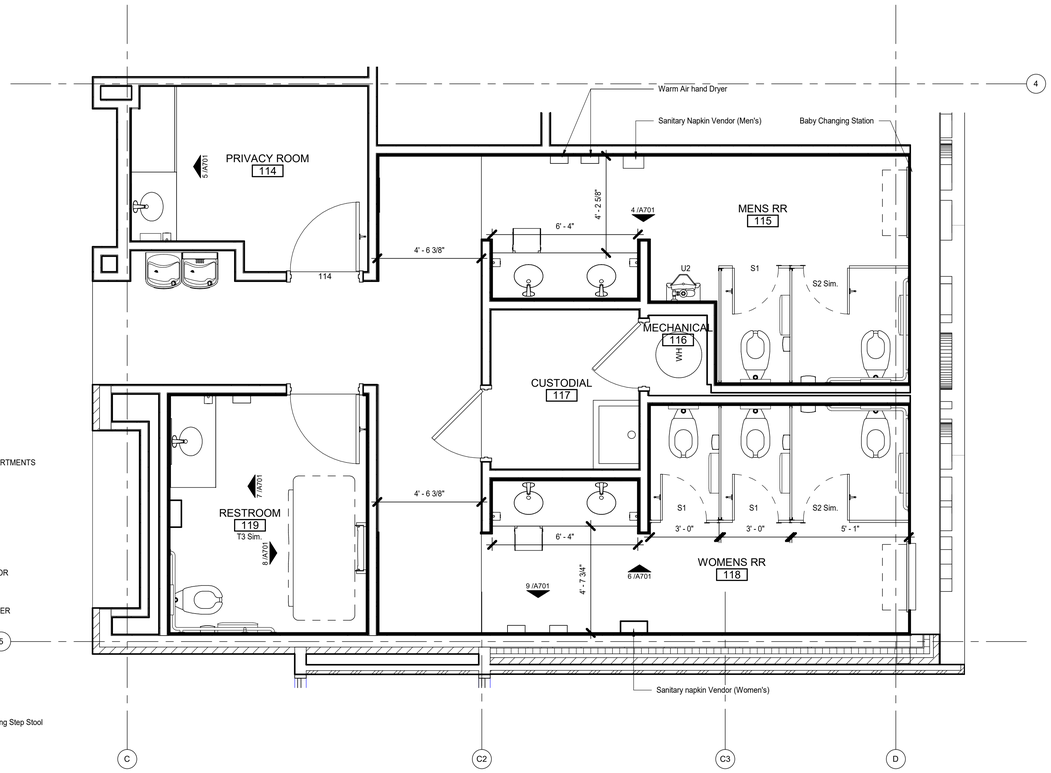
22150

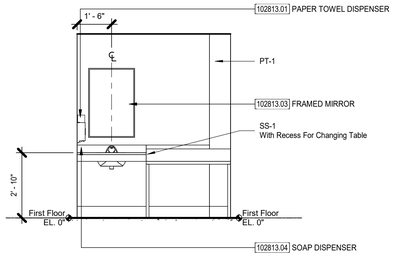


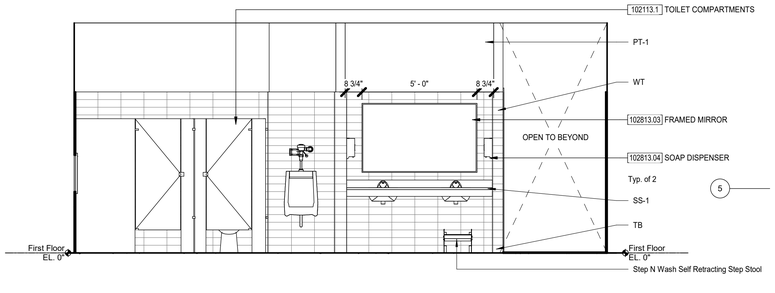
3 Staff Restroom
3/8" = 1'-0"



2 Enlarged Plan - Staff Restroom 2
3/8" = 1'-0"





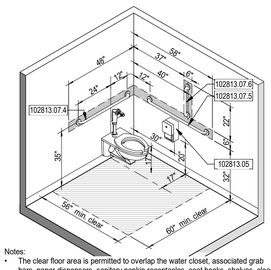


5 Privacy Room Elevation
3/8" = 1'-0"

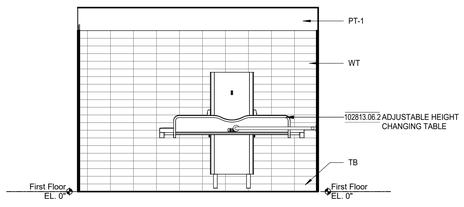
4 Men's Restroom Elevation
3/8" = 1'-0"

1 ENLARGED RESTROOMS PLAN
3/8" = 1'-0"

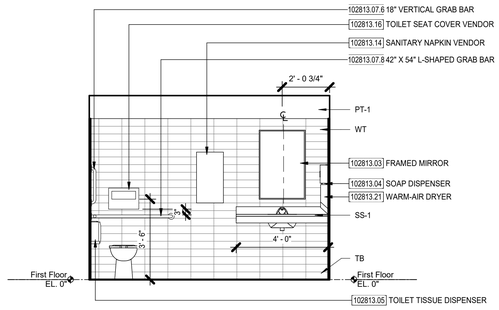
ACCESSIBLE TOILET STALLS & ROOMS



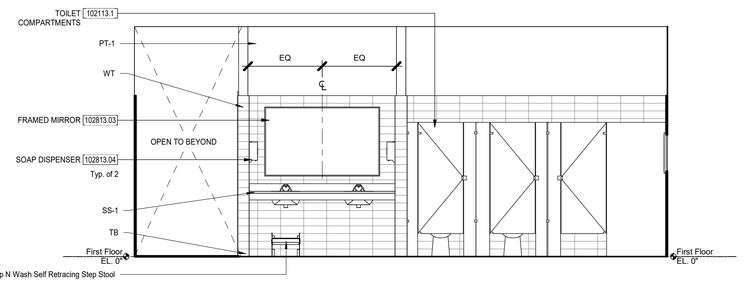
Notes:
- The clear floor area is permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, clear floor space at other fixtures and the turning space.
- No other fixture shall be within the required water closet clearance.
- Flush controls shall be located on the open side of the water closet.
- Hatched zone at walls indicates minimum extent of continuous in-wall reinforcement.
- Combination L-shaped grab bars (Item 1028G8) may be utilized in lieu of items 1028G4 and 1028G5.



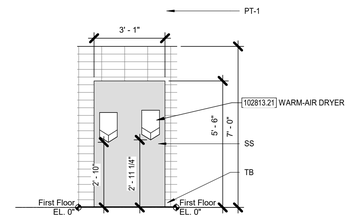
8 Single Occupant Restroom Elevation 2
3/8" = 1'-0"



7 Single Occupant Restroom
3/8" = 1'-0"



6 Women's Restroom Elevation
3/8" = 1'-0"



9 Typical Double Warm Hand Dryer Elevation
3/8" = 1'-0"

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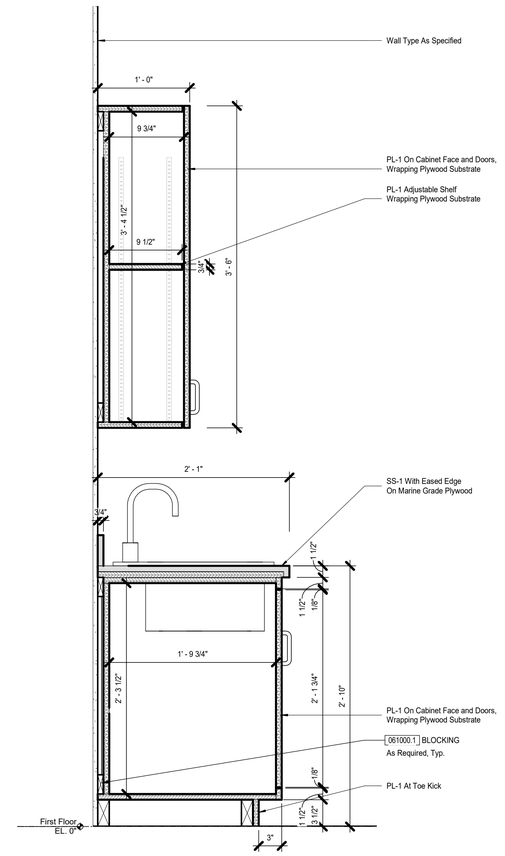
Enlarged Restroom Plans and Elevations

Architectural

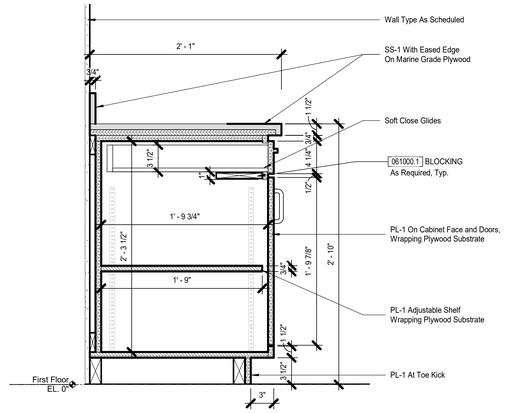
A701

Issue Date

22150



2 Typical Upper Cabinet and Base Sink Cabinet Detail
1 1/2" = 1'-0"



1 Typical Base Cabinet Detail
1 1/2" = 1'-0"

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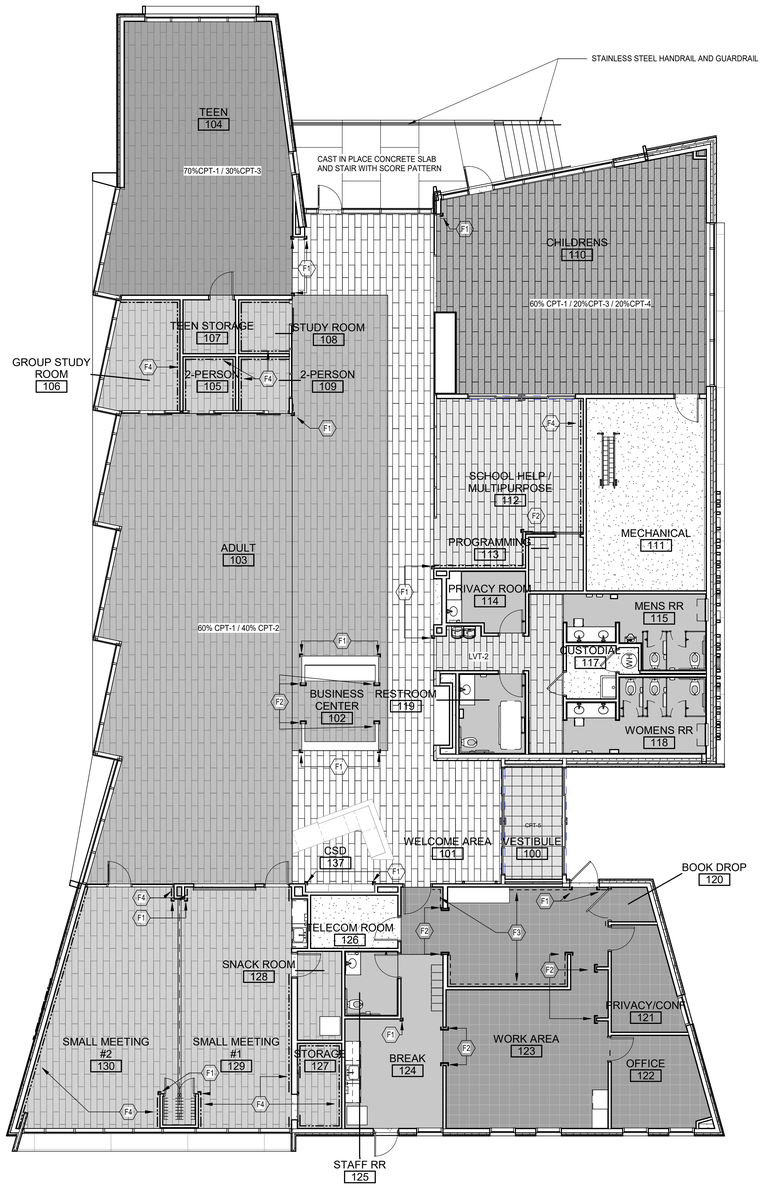
Interior Details

Architectural

A801

Issue Date

22150



1 Finish Floor Plan
1/8" = 1'-0"

Room Finish Schedule

ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	WALL FINISHES				REMARKS
				NORTH	EAST	SOUTH	WEST	
First Floor								
VESTIBULE	CPT-5	BR/WB	PT	ACM	PT-1	PT-1	PT-1	Refer to finish plan for extents
WELCOME AREA	LVT-1	BR/WB	PT	BR	PT-1	PT-1	-	Refer to finish plan for extents
BUSINESS CENTER	CPT-1 / CPT-2	WB	PT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents
ADULT	CPT-1 / CPT-2	WB	PT/OPEN	PT-1 / Storefront	PT-1 / Storefront	PT-1	PT-1 / Storefront	Refer to finish plan for extents, Accent paint location TBD
TEEN	CPT-1 / CPT-3	WB	PT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Accent paint location TBD
2-PERSON	CPT-1	WB	ACT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Accent paint location TBD
GROUP STUDY ROOM	CPT-1	WB	PT	PT-1	VG	PT-1	PT-1	Refer to finish plan for extents
TEEN STORAGE	CPT-1	WB	OPEN	PT-1	PT-1	PT-1	PT-1	-
STUDY ROOM	CPT-1	WB	ACT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Accent paint location TBD
2-PERSON	CPT-1	WB	ACT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Accent paint location TBD
CHILDRENS	CPT-1,3,4	WB	PT/OPEN	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Accent paint and Vinyl Graphic location TBD
MECHANICAL	SC	WB	OPEN	PT-1	PT-1	PT-1	PT-1	-
SCHOOL HELP / MULTIPURPOSE	LVT-2	WB	ACT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Vinyl Graphic location TBD
PROGRAMMING	LVT-2	WB	ACT	PT-1	PT-1	PT-1	PT-1	-
PRIVACY ROOM	RF	RB	PT	PT-1	PT-1	PT-1	PT-1	-
MENS RR	RF	RB	OPEN	PT-1 / WT	PT-1 / WT	PT-1 / WT	PT-1 / WT	Refer to elevations for extents
MECHANICAL	SC	WB	OPEN	PT-1	PT-1	PT-1	PT-1	-
CUSTODIAL	SC	WB	OPEN	PT-1	PT-1	PT-1	PT-1	-
WOMENS RR	RF	TB	OPEN	PT-1 / WT	PT-1 / WT	PT-1 / WT	PT-1 / WT	Refer to elevations for extents
RESTROOM	RF	TB	PT	PT-1 / WT	PT-1 / WT	PT-1 / WT	PT-1 / WT	Refer to elevations for extents
BOOK DROP	CPT-6	WB	ACT	PT-1	PT-1	PT-1	PT-1	-
PRIVACY/CONF	CPT-6	WB	ACT	PT-1	PT-1	PT-1	PT-1	Refer to finish plan for extents, Accent paint location TBD
OFFICE	CPT-6	WB	ACT	PT-1	PT-1	PT-1	PT-1	-
WORK AREA	CPT-6	WB	ACT	PT-1	PT-1	PT-1	PT-1	-
BREAK	RF	RB	ACT	PT-1	PT-1	PT-1	PT-1	-
STAFF RR	RF	RB	PT	PT-1	PT-1	PT-1	PT-1	-
TELECOM ROOM	SC	WB	OPEN	PT-1	PT-1	PT-1	PT-1	-
STORAGE	CPT-1	WB	OPEN	PT-1	PT-1	PT-1	PT-1	-
SNACK ROOM	SC	WB	ACT	PT-1	PT-1	PT-1	PT-1	-
SMALL MEETING #1	CPT-1	WB	PT	PT-2	PT-2	PT-2	PT-2	-
SMALL MEETING #2	CPT-1	WB	PT	PT-2	PT-2	PT-2	PT-2	-
CSD	LVT-1	WB	PT	PT-1	PT-1	PT-2	PT-1	Refer to finish plan for extents

SCHEDULE OF FINISHES

LEGEND	KEYNOTE	ITEM	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN PRODUCT	SIZE	COLOR/FINISH	EDGE/PROFILE	NOTES
04 21 13 - Brick Unit Masonry								
BR	042113.2	Brick	-	-	-	-	-	Match Exterior, See BR1
06 40 23 - Interior Architectural Woodwork								
WD	064023.1	Wood Veneer	-	Rift Cut White Oak	-	Clear Finish	-	Interior Wood Doors+Display Areas
PL	064023.2	Plastic Laminate	Wilsonart	-	-	Pasadena Oak / 7986-38	-	Matte, High Wear
06 61 16 Solid Surface Fabrications								
SS-1	066116.3.1	Solid Surface	Corian	-	1/2"	Silver Birch	-	-
SS-2	066116.3.2	Solid Surface	Corian	-	1/2"	Designer White	-	-
SS-3	066116.3.3	Solid Surface	Corian	-	-	Glacier White	-	-
SS-4	066116.3.4	Solid Surface	Corian	-	-	TBD	-	-
07 42 43 - Composite Wall Panels								
ACM	074243.1.2	ACM	Reynobond	FR Core	4mm	Daybreak Mica	-	Series 2, 2-coat Mica finish
08 87 00 - Glazing Surface Films								
-	088713.1	Window Film	3M	Custom	-	-	-	-
-	088713.2	Vinyl Graphic	3M	Custom	-	-	-	-
09 29 00 - Gypsum Board								
-	092900.1.1	Gypsum Ceiling	-	-	-	-	-	Painted: TBD
-	092900.1.2	Gypsum Ceiling	-	-	-	-	-	Painted: TBD , 1/2" Metal Reveal Pattern in adult collections/central space
-	092900.1.3	Gypsum Ceiling	-	-	-	-	-	Painted: TBD , Moisture Resistant
09 30 13 - Tiling								
MT	093000.2	Marble Threshold	-	-	-	-	-	-
TB	093000.4	Ceramic Wall Base	Daltile	Color Wheel Linear	4" x 12"	Suede Gray 182	Flat Top Cove	Grout: TBD
WT	093013.1	Ceramic Wall Tile	Daltile	Color Wheel Linear	4 x 12	Artic White 0190 / Glossy	-	Grout: TBD
09 51 13 - Acoustical Panel Ceilings								
ACT	095113.1.1	Acoustic Ceiling Tile	Armstrong	Optima Square Lay-In	24 x 48	-	15/16 Prelude Grid	-
-	095113.1.2	Felt Ceiling	Turf	Reveal Geometric Ceiling Baffles	4'L, 9" to 18"D, 25mm TH	06 Charcoal	-	-
09 65 13 - Resilient Base								
WB	096513.1	Rubber Base	Tarkett	-	-	63 Burnt Umber		-
RB	096513.2	Resilient Base	Armstrong Flooring	Medintone With Diamond 10	6"	H2013 Cool Evening	Integral Cove Base	-
09 65 16 - Resilient Flooring								
RF	096516.1.1	Resilient Sheet Flooring	Armstrong Flooring	Medintone With Diamond 10	6-1/2" x 65.61" x	H2013 Cool Evening	-	With 6" Integral Base
LVT-1	096516.1.2	LVT	Interface	Brushed Lines	9.845" x 39.38" x 1/8"	A01605 Graphite	-	-
LVT-2	096516.1.3	LVT	Interface	Brushed Lines	9.845" x 39.38" x 1/8"	A01622 Deep Cobalt	-	-
09 68 13 - Tile Carpeting								
CPT-1	096813.1.1	Carpet Tile	Interface	Brownstone	9.845" x 39.38" x 1/4"	105868 / Turtlebay	GlasBac Backing	Install: Ashlar
CPT-2	096813.1.2	Carpet Tile	Interface	On Line	9.845" x 39.38" x 1/8"	103787 / Pewter	GlasBac Backing	Install: Ashlar
CPT-3	096813.1.3	Carpet Tile	Interface	On Line	9.845" x 39.38" x 1/8"	105267 / Cobalt	GlasBac Backing	Install: Ashlar
CPT-4	096813.1.4	Carpet Tile	Interface	On Line	9.845" x 39.38" x 1/8"	105275 / Magenta	GlasBac Backing	Install: Ashlar
CPT-5	096813.1.5	Carpet Tile	Interface	On Line	9.845" x 39.38" x 1/8"	104944 / Iron	GlasBac Backing	Install: Non Directional
CPT-6	096813.1.6	Carpet Tile	J+J Flooring	Kinetex, Provision 1831	24" x 24"	2280 Staple		Install: TBD
09 91 00 - Painting								
PT-1	099100.1.1	Paint	Sherwin Williams	-	-	SW7006 / Extra White	-	Finish: TBD
PT-2	099100.1.2	Paint	Sherwin Williams	-	-	SW7664 Steely Gray	-	Finish: TBD
PT-3	099100.1.3	Paint	Sherwin Williams	-	-	SW6255 Morning Fog	-	Finish: TBD
PT-4	099100.1.4	Paint	Sherwin Williams	-	-	SW7661 Reflection	-	Finish: TBD
PT-5	099100.1.5	Paint	Sherwin Williams	-	-	SW6797 Jay Blue	-	Finish: TBD
09 97 23 Concrete Sealer								
SC	099723.1	Sealed Concrete	Refer To Spec Section	Refer To Spec Section	-	-	-	BOH Areas
10 21 00 - Toilet Compartments								
-	102113.1	Toilet Compartment	ASI Global Partitions	-	-	Phenolic Through Color / Fog #3450C	-	Floor Mounted
10 22 26 - Operable Panel Partitions								
-	102226	Divider Panels	Moderco	-	-	-	-	-
12 24 13 - Roller Window Shades								
-	122413.1.1	Roller Shade	Mecho	Soho 1900 Series	-	1910 Nickel	-	5% Open
-	122413.1.2	Roller Shade	Mecho	Equinox Blackout 0100 Series (Opaque) / Soho 1900 Series	-	0114 Marble / 1920 Nickel	-	Double Shade: Blackout & 5% Open

FINISH PLAN - GENERAL NOTES

A. WALL PROTECTION TO BE INSTALLED NO LESS THAN 4' A.F.F.

B. CORNER GUARDS TO MATCH WALL PROTECTION HEIGHT AND BE INSTALLED IN FRONT OF WALL BASE.

C. STAINLESS STEAL WALL CORNER GUARDS ON ALL VERTICAL GYPSUM BOARD CORNERS

MATERIALS KEY

- CT1 - Carpet Tile
- CT1/CT2 - Carpet Tile
- CT1/CT3 - Carpet Tile
- CT1/CT3/CT4 - Carpet Tile
- CT5 - Carpet Tile
- RF1 - Rubber Sheet Flooring
- LVT1 - Luxury Vinyl Tile
- LVT2 - Luxury Vinyl Tile
- SC1 - Sealed Concrete

FINISH PLAN CODED NOTES

F1 L-shaped stainless steel corner guards . see specifiction 10 26 13.

F2 U-shaped stainless steel endwall corner guard. see specifiction 10 26 13.

F3 Brushed silver wall protection with wainscot trim. see specification xxxx.

F4 White wall protection protection with wainscot trim . see specification xxxx.

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NOT FOR CONSTRUCTION

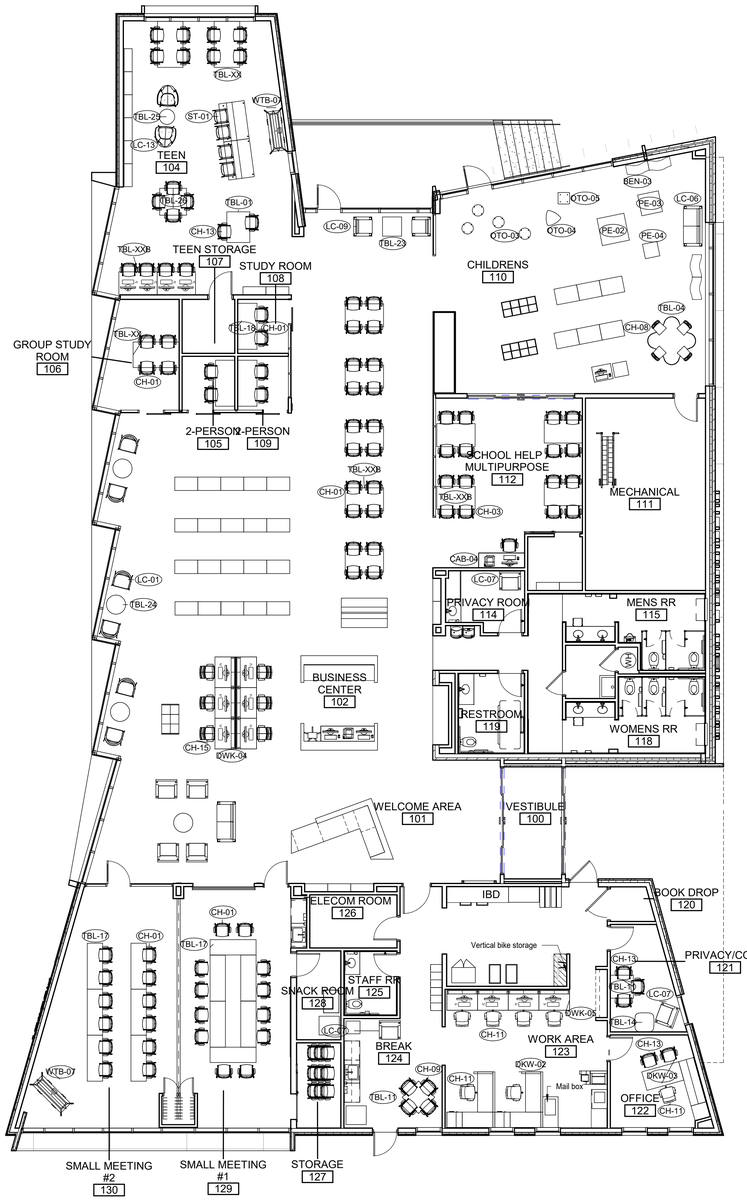
Finish Plans

Architectural

A900

Issue Date

22150



1 Furniture Plan
1/8" = 1'-0"

Furniture Schedule

TAG NO.	Type Comments	QUANTITY
	<varies>	170
BEN-03	Coalesse ripple flat bench	4
CAB-04	SHC Staff Salton	1
CH-01	Sit on it relay	63
CH-03	Sit on it baja	17
CH-08	Emeco navy chair	4
CH-09	Sit on it relay	4
CH-11	Sit on it amplify	7
CH-13	Sit on it baja	23
CH-15	Sit on it movi light task armless	6
DKW-02	AIS Cubicles	2
DKW-03	AIS Manager desk	1
LC-01	Encore Fling 2170-U	6
LC-06	JSI Arwyn Lounge	2
LC-07	EKO G1 Lounge	7
LC-09	Encore Fling 2170-U	2
LC-13	Arcadia Odette Chair 5861	2
OTO-03	ERG MIA round ottoman	4
OTO-04	ERG MIA triangle ottoman	1
OTO-05	ERG MIA square ottoman	1
PE-02	Momentum Interactive flat cube diplo blocks	1
PE-03	Momentum Interactive large cube diplo blocks	1
PE-04	Momentum Interactive small cube diplo blocks	1
ST-01	Level 4 Deisgn Nett Barstool	4
TBL-01	Enwork Zori - Leg power cut out	1
TBL-04	Mediatech workbox island table	1
TBL-11	Enwork Zori	2
TBL-14	Nevins Oscar X-base soft suqare table	1
TBL-15	Enwork Solano	2
TBL-17	Enwork Zori Fliptop	12
TBL-18	Leg power cut out	3
TBL-23	Nevins Abbott solid surface cube table	1
TBL-24	Nevins Oscar round table	4
TBL-25	Nevins Abbott solid surface cylinder table	1
TBL-28	Enwork Zori	1
TBL-XX	Enwork	3
TBL-XXB	Enwork ?	11
WTB-07	Enwork Zori mobile monitor stand on casters	2

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Furniture Plan

A1001

Issue Date

22150

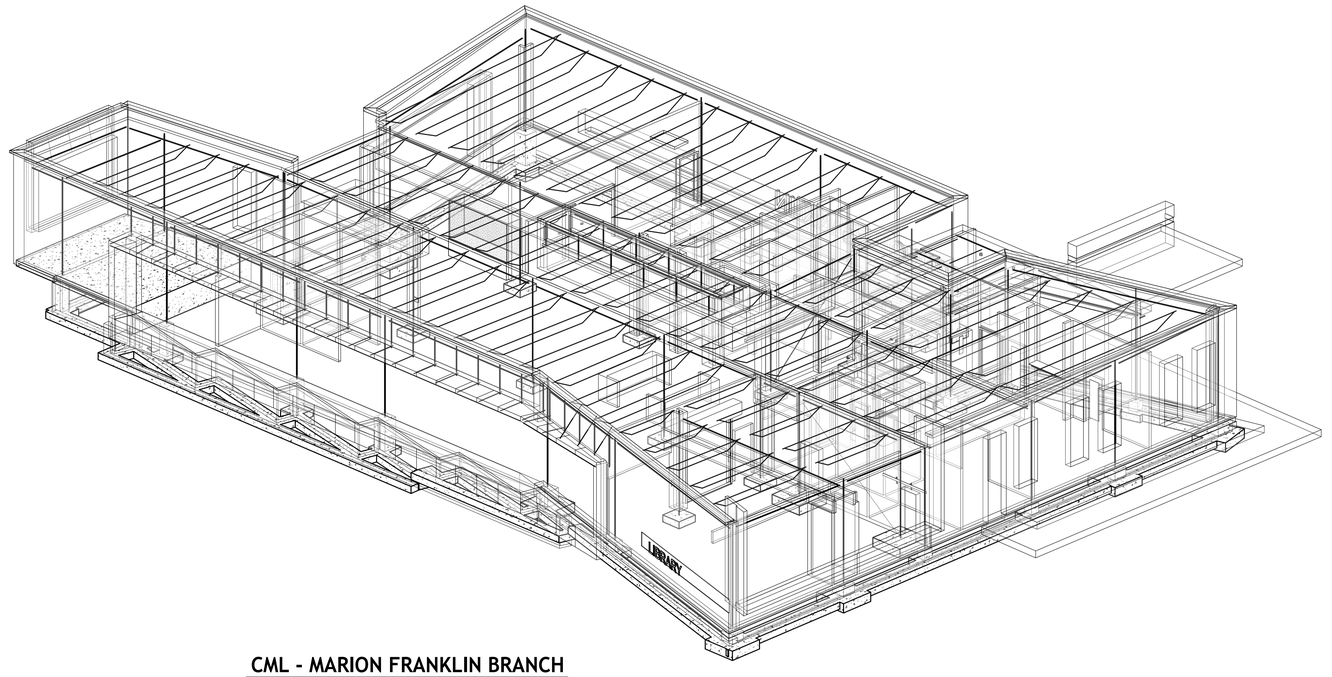
ABBREVIATIONS

#	NUMBER
#	POUND (S)
#/FT	POUNDS PER LINEAL FOOT
CL	CENTERLINE
PL	PLATE
Ø	DIAMETER
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ANC	ANCHOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT(URAL)
B PL	BASE PLATE
B, BOT	BOTTOM
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
c/c	CENTER-TO-CENTER
CB	CONCRETE BEAM
CE	CONTINUOUS END
CFMF	COLD FORMED METAL FRAMING
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT (ION)
CONST	CONTRUCT (ION)
CONT	CONTINUOUS (ATION)
CONTR	CONTRACTOR
CTR	CENTER
CW	CURTAIN WALL
CY	CUBIC YARDS
DA	DRILLED ANCHOR
DBL	DOUBLE
DBLS	DOUBLE TIES
DE	DISCONTINUOUS END
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DR	DISTRIBUTION RIB
DWG	DRAWING
DWL	DOWEL
E	EAST
E-, EXTG	EXISTING
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDDED (MENT)
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FAB	FROM ADJACENT BEAM
FABR	FABRICATE (OR)
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FIN	FINISHED
FL	FULL LENGTH
FLR	FLOOR
FND	FOUNDATION
FOM	FACE OF MASONRY
FOS	FACE OF SHEATHING
FOV	FACE OF VENEER
FOW	FACE OF WALL
FS	FAR SIDE
FT	FEET, FOOT
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GR	GRADE
GRND	GROUND
GRTG	GRATING
H, HORIZ	HORIZONTAL
HD	HEADED
HK	HOOK
HS	HIGH-STRENGTH
HVAC	HEATING VENTILATING AIR CONDITIONING
ID	INSIDE DIAMETER (DIMENSION)
IF	INSIDE FACE
IN	INCH
INT	INTERIOR, INTERMEDIATE
JST	JOIST
JT	JOINT
KP	KIP (1000 POUNDS)
KSF	KIPS PER SQUARE FOOT
LAT	LATERAL
LBS, #	POUNDS
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LOC	LOCATION
LSH	LONG SIDE HORIZONTAL
LSL	LONG SLOTTED HOLES
LSV	LONG SIDE VERTICAL
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY

MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE (R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPH	MILES PER HOUR
MTL	METAL
N	NORTH
N/A	NOT APPLICABLE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO, #	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NSH	NORMAL SLOTTED HOLES
NTS	NOT TO SCALE
o/o	OUT-TO-OUT
OC	ON CENTER (S)
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE (HAND)
OPT	OPTIONAL
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
OSL	OUT STANDING LEG
OVHD	OVERHEAD
OVS	OVERSIZED ROUND HOLES
P/C	PRECAST CONCRETE
PAF	POWDER ACTUATED FASTENER (S)
PEMB	PRE-ENGINEERED METAL BUILDING
PLF	POUND PER LINEAR FOOT
PLWD	PLYWOOD
PNL	PANEL
PREL	PRELIMINARY
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
QTY	QUANTITY
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE (ING), (ED)
REQ	REQUIRE (MENTS)
REQ'D	REQUIRED
REV	REVIS (ION), (ED)
RF	ROOF
RM	ROOM
RTU	ROOF TOP UNIT
S	SOUTH
SC	SLIP-CRITICAL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL	SLOPE (D)
SP	SPACE (S), (ED)
SPEC	SPECIFICATION (S)
SPL	SPLICE
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
SSR	SHEAR STUD RAILS
STA	STATION
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURE (AL)
SVC	SERVICE
SW	SHORT WAY
SYM	SYMMETRICAL
T	TOP
T&B	TOP AND BOTTOM
T/	TOP OF
TEMP	TEMPERATURE, TEMPORARY
THD	THREADED
THK	THICK (NESS)
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOT	TOTAL
TYP	TYPICAL
UN	UNLESS NOTED
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
VERT	VERTICAL
W	WEST
W/	WITH
W/C	WATER/CEMENT RATIO
W/O	WITHOUT
WD	WOOD
WL	WIND LOAD
WP	WORK (ING) POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING
XX	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG

SMBH SHEET LIST

NUMBER	NAME
S001	STRUCTURAL COVER SHEET
S002	GENERAL NOTES
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S201	BRACE FRAMING
S301	SECTIONS
S401	FRAMING SECTIONS



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Drawing Issue Dates

Schematic Design Plus Submittal

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

STRUCTURAL
COVER SHEET

S001

Issue Date

22150

010000 - GENERAL STRUCTURAL NOTES

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS [AND SPECIFICATIONS]. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, [SPECIFICATIONS] AND THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. GOVERNING CODE:
   OHIO BUILDING CODE - 2017 EDITION
   INTERNATIONAL BUILDING CODE - 2012/2015/2018/2021 EDITION.
3. SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE, IF APPLICABLE.
4. DESIGN CRITERIA:

ROOF LOADS		FLOOR LOADS	
ROOFING:	1.5 PSF	SLAB & DECK:	___ PSF
INSULATION:	1.0 PSF	ADD'L PONDING CONCRETE:	5.0 PSF
METAL DECK:	2.5 PSF	FLOOR FINISHES:	0.5 PSF
JOIST FRAMING:	2.5 PSF	CEILING/LIGHTS:	3.0 PSF
M.E.P.:	2.0 PSF	M.E.P.:	3.0 PSF
SPRINKLER:	2.5 PSF	SPRINKLER:	2.5 PSF
COLLATERAL:	2.0 PSF	COLLATERAL:	2.0 PSF
OFFICE COLLATERAL:	3.0 PSF	JOIST FRAMING:	___ PSF

   (SEE ROOF PLAN FOR LOCATIONS)
5. ROOF SNOW LOAD:
   GROUND SNOW LOAD (Pg) - 25 PSF
   SNOW EXPOSURE FACTOR (Ce) - 1.0
   IMPORTANCE FACTOR (Is) - 1.0
   THERMAL FACTOR (Ct) - 1.0
   FLAT ROOF SNOW LOAD (Pf) - 17.5 PSF
   UNIFORM ROOF DESIGN SNOW LOAD - 20.0 PSF
   SEE PLANS OR JOIST DIAGRAMS FOR SNOW DRIFT INFORMATION
6. WIND LOAD:
   ULTIMATE DESIGN WIND SPEED (Vult) - 115 MPH
   NOMINAL WIND SPEED (Vasd) - 89 MPH
   RISK CATEGORY - II
   EXPOSURE CATEGORY - EXPOSURE B
   INTERNAL PRESSURE COEFFICIENT (G Cpi) - ±0.18
   COMPONENTS AND CLADDING – SEE TABLE BELOW
7. SEISMIC LOAD:
   RISK CATEGORY - II
   IMPORTANCE FACTOR (Ie) - 1.0
   MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss) - 0.156
   MAPPED SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND PERIOD (S1) - 0.051
   SITE CLASS - D
   SPECTRAL RESPONSE PARAMETER AT SHORT PERIOD (SDs) - 0.166
   SPECTRAL RESPONSE PARAMETER AT ONE-SECOND PERIOD (SD1) - 0.082
   SEISMIC DESIGN CATEGORY - B
   DESIGN BASE SHEAR - ***
   SEISMIC RESPONSE COEFFICIENT (Cs) - 0.083
   BASIC SEISMIC FORCE RESISTING SYSTEM:
   H - STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS (R=3, Ω=3, Cd=3)
   G2 -STEEL ORDINARY CANTILEVER COLUMN SYSTEMS (R=1 1/4, Ω=1 1/4, Cd = 1 1/4)
   A2 -ORDINARY REINFORCED CONCRETE SHEAR WALLS (R=4, Ω=2 1/2, Cd=4)
   A6 -ORDINARY PRECAST SHEAR WALLS (R=3, OMEGA= 2 1/2, Cd=3)
   A9 -ORDINARY REINFORCED MASONRY SHEAR WALLS (R=2, Ω=2 1/2, Cd=1 3/4)
   A15 -LIGHT FRAME WOOD WALLS WITH WOOD STRUCTURAL PANELS (R= 6 1/2, Ω=3, Cd=4)
   A16 - LIGHT FRAME COLD FORMED STEEL WALLS WITH WOOD STRUCTURAL PANELS (R=6 1/2, Ω=3, Cd=4)
   DESIGN BY EQUIVALENT LATERAL FORCE PROCEDURE.
8. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL DRAWINGS.
9. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE **[DEMOLITION PROCEDURES,]** ERECTION PROCEDURES AND SEQUENCES AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
10. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC. WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND DRAWINGS OF ANY OTHER DISCIPLINE.
13. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION DEAD LOAD APPLIED TO THE STRUCTURAL FRAMING.
14. THE ERECTION AND CONSTRUCTION SEQUENCES SHALL BE DEVELOPED BY THE CONTRACTOR TO ACCOUNT FOR THE EFFECTS OF THERMAL MOVEMENTS TO THE STRUCTURE. DETAILED EXPANSION JOINTS ON THESE DRAWINGS ARE DESIGNED FOR MOVEMENT OF A COMPLETED STRUCTURE.
15. IF EQUIPMENT SHIPPING OR OPERATING WEIGHT EXCEEDS VALUE SHOWN ON THESE DRAWINGS, DO NOT PLACE EQUIPMENT. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT.
16. DO NOT MODIFY, ALTER OR REPAIR ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
17. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMISSION TO STRUCTURAL ENGINEER.
18. DEFERRED SUBMITTALS: THE FOLLOWING COMPONENTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR, LICENSED IN THE STATE OF THE PROJECT. DESIGN INFORMATION SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA.
   A. STEEL CONNECTIONS NOT SPECIFICALLY AND FULLY DETAILED ON THE STRUCTURAL DRAWINGS.
   B. STEEL STAIRS AND RAILINGS.
   C. COLD FORMED METAL FRAMING - NON-LOAD BEARING CURTAINWALL.
   D. COLD FORMED METAL FRAMING - LOAD-BEARING WALLS.
   E. STEEL JOIST AND GIRDERS (OR APPROPRIATE REFERENCES TO SJI STANDARDS).
   F. TILT-UP CONCRETE WALL PANELS.
   G. WOOD FLOOR TRUSSES.
   H. WOOD ROOF TRUSSES.
   I. COLD FORMED METAL FRAMING - ROOF TRUSSES.
   J. PRECAST CONCRETE CURTAINWALL.
   K. PRECAST CONCRETE FLOOR PLANK.
   L. POST-TENSIONED CONCRETE TENDON ANCHORAGES AND EFFECTIVE STRESSES.
   M. TIMBER CONNECTIONS.
   N. PRECAST CONCRETE WALL PANELS.
   O. TILT-UP CONCRETE PANEL LIFTING AND BRACING DESIGN.
   P. ERECTION PROCEDURES AND SEQUENCES.
19. SEE SHEET _____ FOR SPECIAL INSPECTIONS.

033000 - CAST-IN-PLACE CONCRETE

1. SPECIFICATIONS AND STANDARDS:
   CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE APPLICABLE VERSION OF:
   A. ACI 301, ACI 315, AND ACI 318.
   B. CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
   C. ACI 306 AND ACI 305 FOR COLD AND HOT WEATHER CONCRETING, RESPECTIVELY. THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.
2. CONTINGENCIES:
   A. [***] TONS OF REINFORCING BARS TO BE USED AS DIRECTED BY THE ARCHITECT.
   B. LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVEREXCAVATION OR SOFT SPOTS.
3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:

CLASS	LOCATION	f'c	MAX W/C RATIO	SPECIAL REQUIREMENTS
1	FOOTINGS	3000 PSI		
2	PIERS, WALLS, EQUIPMENT PADS	3000 PSI	0.55	
3	EXTERIOR CONCRETE	4500 PSI	0.45	6% +/- 1.5% AIR CONTENT
4	INTERIOR SLABS-ON-GRADE, INTERIOR SLAB-ON-METAL DECK	3500 PSI	0.50	3% MAX AIR CONTENT
5	LW SLABS-ON-METAL DECK	3500 PSI	0.50	115 PCF +/- 3 PCF EQUIL. UNIT WEIGHT
6	SLABS, BEAMS, COLUMNS	4000 PSI	0.50	
7	CONCRETE OVER PRECAST, STAIR PAN FILL	3000 PSI	0.50	3/8" MAX. AGGREGATE
8	EXTERIOR PT SLABS, BEAMS	5000 PSI	0.40	6% +/- 1.5% AIR CONTENT
9	TILT-UP WALLS	4000 PSI	0.45	
10	LEAN CONCRETE	1500 PSI		NO TESTS, SOFT SOIL REPLACE
11	FLOWABLE FILL	85 PSI		NO TESTS, UTILITY BACKFILL UNDER FOOTINGS
12	TILT-UP PANEL GROUT	5000 PSI		NON-SHRINK, NON-METALLIC, CONFORMS TO ASTM C1107

   SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE. ALL MIXES SHALL INCLUDE EITHER ASTM C150 PORTLAND CEMENT OR ASTM C595 PORTLAND-LIMESTONE CEMENT AND ALL AGGREGATE SHALL CONFORM TO ASTM C33. [CONCRETE TESTING PER ACI 318 SECTION 26.12]
4. REINFORCING REQUIREMENTS:
   A. BARS: ASTM A615, GRADE 60.
   B. WELDED WIRE REINFORCING: ASTM A1064.
   C. STEEL FIBER: ASTM A820, TYPE I.
   D. SMOOTH BARS: ASTM A36.
   E. SEVEN WIRE STRAND (GRADE 270) – ASTM A416.
   F. BARS REQUIRING WELDING: ASTM A706, GRADE 60.
5. POST INSTALLED WEDGE ANCHORS:
   A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL (INTERIOR) OR STAINLESS STEEL/GALVANIZED (EXTERIOR).
   B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 355.2, EVALUATED FOR USE IN CRACKED CONCRETE.
   C. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. BASIS OF DESIGN: HILTI KWIK BOLT TZ2
6. POST INSTALLED SCREW ANCHORS:
   A. THE ANCHOR SHALL COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SHALL BE SUITABLE FOR CRACKED CONCRETE.
   B. INTERIOR USE ONLY.THE ENTIRE ANCHOR SHALL BE CARBON STEEL WITH ZINC PLATING EQUIVALENT TO DIN EN 4042 (8μm MIN).
   C. PRE-DRILL HOLES WITH STANDARD AISI DRILL BIT PER THE MANUFACTURER'S INSTALLATION GUIDELINES. INSTALL THE ANCHOR WITH AN IMPACT WRENCH.
   D. PROVIDE ANCHORS WITH A DIAMETER AND LENGTH MARKING ON THE HEAD AS INDICATED ON THE DRAWINGS.

033000 - CAST-IN-PLACE CONCRETE - CON'T

7. POST INSTALLED ADHESIVE ANCHORS AND DOWELS:
   A. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT. THE ANCHOR SYSTEM SHALL MEET THE REQUIREMENTS OF ACI 355.4, EVALUATED FOR USE IN CRACKED CONCRETE.
   B. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. BASIS OF DESIGN: HILTI HIT-HY 200 V3 WITH ASTM F1554 Gr. [36], [55], [105]; ASTM A307; ASTM A193 B7; ASTM F593 SS. ANCHORS SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL IF EXPOSED TO EXTERIOR CONDITIONS. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING ICC-ES REPORT.
   C. THE FOLLOWING PARAMETERS HAVE BEEN USED IN THE DESIGN:
      - MINIMUM AGE OF CONCRETE: 21 DAYS.
      - CONCRETE TEMPERATURE RANGE: VERIFY ALLOWABLE BASE TEMPERATURE WITH MANUFACTURER.
      - MOISTURE CONDITION AT THE TIME OF INSTALLATION: DRY (IF WATER SATURATED, PRODUCT DATA SHALL BE PROVIDED THAT INDICATES ANCHOR DOES NOT HAVE REDUCED CAPACITY COMPARED TO A DRY HOLE).
      - TYPE OF LIGHTWEIGHT CONCRETE (IF APPLICABLE): LIGHTWEIGHT AGGREGATE OR SAND.
      - HOLE DRILLING AND PREP: ROTARY HAMMER DRILL WITH HOLE CLEANING PER MANUFACTURER INSTRUCTIONS.
   D. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.
8. FOOTINGS:
   A. DOWELS IN FOOTINGS TO MATCH VERTICAL REINFORCING IN CONCRETE WALLS, COLUMNS AND PIERS. DOWELS IN FOOTINGS FOR MASONRY WALLS ARE NOT REQUIRED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DETAILS.
   B. BEND ALL BARS 24 DIAMETERS AROUND CORNERS OF FOOTINGS. BARS AT THE INSIDE FACE OF THE CORNER SHALL BE CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.
9. SLABS, JOIST AND BEAMS:
   A. IF NO OTHER REINFORCING IS SHOWN IN A SLAB ON GRADE, PROVIDE 6x6-W1.4xW1.4 WWR AT THICKNESS/3 FROM TOP OF SLAB, UNO.
   B. IF REINFORCING IS SHOWN ONE WAY ONLY IN A STRUCTURAL SLAB, PROVIDE TEMPERATURE BARS IN THE OTHER DIRECTION AS FOLLOWS:

THICKESS NOT EXCEEDING	MINIMUM TEMPERATURE BARS
5"	#4 @ 18"
6"	#4 @ 18"
7"	#4 @ 16"
8"	#4 @ 14"
9"	#5 @ 18"

   C. DISTRIBUTION RIBS FOR PAN JOISTS SHALL BE 4" WIDE WITH 1-#4 T&B. NUMBER OF RIBS REQUIRED FOR SPANS LESS THAN 20 FT. NONE; 20 TO 30 FT. - 1; OVER 30 FT. - 2, OR AS SHOWN ON DRAWINGS.
   D. PROVIDE 2-#4 TOP BARS FOR TIE SPACERS IN BEAMS WHERE NO OTHER TOP STEEL IS REQUIRED.
10. WALLS, COLUMNS AND PIERS:
   A. UNLESS SHOWN OTHERWISE, PROVIDE THE FOLLOWING WALL REINFORCING (EXCLUDING TILT-UP WALLS):

WALL THICKNESS	HORIZONTAL STEEL	VERTICAL STEEL
8"	#4 @ 12"	#4 @ 18"
10"	#4 @ 10"	#4 @ 16"
12"	#4 @ 16" EF	#4 @ 18" EF

   B. PROVIDE (2) #5 BARS CONTINUOUS ON EACH SIDE OF WALL OPENINGS, EXTENDING 2 FEET BEYOND EACH CORNER.
   C. CLASS B TENSION LAP SPLICES FOR HORIZONTAL AND VERTICAL WALL REINFORCING UNLESS NOTED.
   D. STAGGER SPLICES IN WALLS SO THAT NO MORE THAN 1/3 OF THE REINFORCING IS SPLICED IN ANY GIVEN CROSS-SECTION. STAGGER SPLICES 40 DIAMETERS.
   E. WHERE OFF-SET SPLICES ARE USED IN THE COLUMN STEEL PLACE 3 SETS OF COLUMN TIES AT 2" c/c IMMEDIATELY BELOW AND ABOVE FLOOR.
   F. WHERE ANCHOR RODS ARE PLACED IN THE TOP OF COLUMNS OR PEDESTALS, PLACE 3 SETS OF COLUMN TIES EQUALLY SPACED WITHIN THE TOP 5" OF THE COLUMN OR PEDESTAL.
   G. KEYED CONTRACTION JOINTS IN WALLS: MAXIMUM SPACING OF 30'-0" c/c.
   H. USE WATERSTOPS AT ALL BASEMENT WALL HORIZONTAL AND VERTICAL JOINTS.
   I. WHERE INDICATED ON THE PLANS PROVIDE KEYED EXPANSION JOINTS WITH 1" COMPRESSIBLE FILLER AND A WATERSTOP.
11. SPLICES:
   A. NO SPLICES IN BEAM, JOIST, OR SLAB STEEL UNLESS SPECIFICALLY SHOWN OTHERWISE.
   B. COMPRESSION SPLICES: LAP 30 DIAMETERS.
   C. TENSION SPLICES, WHEN PERMITTED - LAP IN ACCORDANCE WITH THE ACI CODE AND THE TABLE SHOWN BELOW.

   LAP SPLICE SCHEDULE:

BAR SIZE	LAP CLASS	TOP BAR (f'c<4000 PSI)	TOP BAR (f'c≥4000 PSI)	OTHER BAR (f'c<4000 PSI)	OTHER BAR (f'c≥4000 PSI)
#3	A	22"	19"	17"	15"
	B	28"	24"	22"	19"
#4	A	29"	25"	22"	19"
	B	37"	32"	29"	25"
#5	A	36"	31"	28"	24"
	B	47"	40"	36"	31"
#6	A	43"	37"	33"	29"
	B	56"	48"	43"	37"
#7	A	62"	54"	48"	42"
	B	81"	70"	62"	54"
#8	A	71"	62"	55"	47"
	B	93"	80"	71"	62"
#9	A	80"	70"	62"	54"
	B	104"	91"	80"	70"
#10	A	91"	78"	70"	60"
	B	118"	102"	91"	78"
#11	A	100"	87"	77"	67"
	B	130"	113"	100"	87"

   NOTES:
   a. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THEM.
   b. ALL LAP SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.
   c. VALUES ARE NORMAL WEIGHT CONCRETE NON-EPOXY COATED BARS.
   D. LAP WELDED WIRE REINFORCING 1 SPACE + 2" AT ALL EDGES AND ENDS OF SHEETS.
12. OPENINGS:
   A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK.
   B. IF ANY OPENING NOT SHOWN ON THE PLAN IS REQUIRED, APPROVAL MUST BE SECURED FROM THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
13. COVER:
   A. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
      - UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3".
      - FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2" FOR #5 OR SMALLER, 2" FOR #6 OR LARGER.
      - FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS & SLABS: 3/4", BEAMS & COLUMNS (TO TIES OR STIRRUPS): 1 1/2".
14. MISCELLANEOUS:
   A. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BOTH ADJACENT FLOORS ARE IN PLACE. WHERE FILL IS ON BOTH SIDES OF A FOUNDATION WALLS, PLACE THE FILL EVENLY ON BOTH SIDES OF THE WALL.
   B. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
   C. PROVIDE ONE #4x3'-0" DIAGONAL REINFORCING BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS OF SLABS ON GRADE AND SLABS ON METAL DECK.
   D. PROVIDE SLAB BOLSTERS TO CORRECTLY LOCATE WELDED WIRE REINFORCING @MID-DEPTH OF CONCRETE SLABS ON METAL DECK.
   E. PROVIDE EQUIPMENT PADS, INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4x0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18" c/c EACH WAY. REINFORCE PADS WITH #4 @ 18" c/c EACH WAY AT MID-DEPTH (FOR PADS <8" THICK) UNLESS REQUIRED OTHERWISE BY EQUIPMENT SUPPLIER.
   F. SUBMIT STEEL REINFORCING SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT PRIOR TO FABRICATION.
15. SHORING/RESHORING:
   A. THE SHORING AND/OR RESHORING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.
   B. THE SHORING/RESHORING SYSTEM SHALL CONSIST OF A MINIMUM OF ONE LEVEL OF SHORES AND TWO LEVELS OF RESHORES.
   C. SHORING SYSTEM SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE OF OHIO AND SHALL COMPLY WITH THE CURRENT EDITIONS OF ACI 347 AND ACI 301.
   D. SHORING/RESHORING SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. THE SHOP DRAWINGS SHALL ADDRESS ALL ASPECTS OF THE SHORING/RESHORING SYSTEM AND SHALL BEAR THE SEAL OF THE ENGINEER.
   E. SHORING FOR A LEVEL SHALL NOT BE REMOVED UNTIL THE CONCRETE AT THAT LEVEL HAS REACHED 75% OF THE SPECIFIED COMPRESSIVE STRENGTH (f'c). ALL SLABS SHALL BE SHORED/RESHORED UNTIL THEY REACH THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH. RESHORING SHALL BE INSTALLED THE SAME DAY SHORING IS REMOVED.
   F. REMOVAL OF SHORING/RESHORING SHALL NOT CAUSE OVER STRESSING OF ANY STRUCTURAL ELEMENTS. THIS VERIFICATION SHALL BE INCLUDED IN THE SHORING ENGINEER'S SUBMITTAL.
16. CONDUITS MAY BE EMBEDDED IN THE SLAB WITH THE APPROVAL OF THE ENGINEER. THE FOLLOWING MINIMUM CRITERIA SHALL APPLY:
   A. THE OUTSIDE DIAMETER OF THE CONDUIT DOES NOT EXCEED 1/4 OF THE SLAB THICKNESS OR 2 IN., WHICHEVER IS LESS.
   B. CONDUITS WITH OUTSIDE DIAMETER GREATER OR EQUAL TO 1 IN. ARE LOCATED WITHIN THE MIDDLE OF THE THIRD OF THE SLAB.
   C. CONDUITS WITH OUTSIDE DIAMETER SMALLER THAN 1 IN. MAY BE LOCATED ANYWHERE WITHIN THE SLAB AS LONG AS THE MINIMUM COVER REQUIREMENTS ARE OBSERVED.
   D. CENTER-TO-CENTER SPACING OF THE CONDUITS IN NOT LESS THAN THREE TIMES THE DIAMETER OF THE LARGEST CONDUIT OR 6", WHICHEVER IS GREATER, WITH NO MORE THAN THREE CONDUITS PER SIX-FOOT WIDTH OF SLAB.
   E. CONDUITS DO NOT CONTACT, INTERRUPT, OR DISPLACE THE POST-TENSIONED TENDONS OR MILD REINFORCING.
   F. NO CONDUIT MAY BE PLACED WITHIN A DISTANCE EQUAL TO THE LARGEST COLUMN DIMENSION FROM THE FACE OF THE COLUMN, UNLESS APPROVED BY THE ENGINEER OF RECORD.
   G. NO CONDUITS MAY BE PLACED WITHIN A DISTANCE EQUAL TO THE DEPTH OF SLAB FROM EDGE OF A SLAB BOTTOM DROP, UNLESS APPROVED BY THE ENGINEER OF RECORD.
   H. CONDUIT SHALL BE SUPPORTED ON CHAIRS.
   I. SUBMIT CONDUIT SHOP DRAWINGS WITH PROPOSED LAYOUT FOR REVIEW. NO CONDUIT SHALL BE PLACED IN THE SLAB UNLESS INCLUDED IN THE SHOP DRAWING SUBMITTAL
   J. IT IS UNDESIRABLE TO HAVE A LARGE NUMBER OF CONDUITS ENTERING THE SLAB AT ONE LOCATION. IF THIS OCCURS, THE CONDUITS MUST BE FANNED OUT IMMEDIATELY, UNTIL ITEM (D) ABOVE IS MET. THIS INFORMATION SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTAL.
   K. CONDUIT SHALL NOT BE UNCOATED ALUMINUM. COORDINATE MATERIAL WITH ELECTRICAL REQUIREMENTS.
17. ELEVATED SLAB PENETRATIONS:
   A. PENETRATIONS SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD.
   B. SLEEVES THRU SLABS SHALL NOT BE PLACED CLOSER THAN 3 x LARGER SLEEVE DIAMETER MEASURED BETWEEN CENTERS
   C. SLEEVES THRU SLABS SHALL NOT BE LOCATED CLOSER THAN 6 x SLAB THICKNESS FROM COLUMN FACES.
   D. SLEEVE LAYOUT SHOP DRAWING SUBMITTAL REVIEW AND COORDINATION IS REQUIRED BEFORE PLACING CONCRETE SLABS.
   E. SLEEVE LAYOUT SHOP DRAWING REVIEW MAY RESULT IN ADDED REINFORCING STEEL, SHEAR STUD RAILS, ETC. THE REVIEW MAY ALSO RESULT IN REQUIRED REVISIONS TO THE SLEEVE LAYOUT.
   F. REINFORCING STEEL AND SHEAR STUD RAIL SHOP DRAWINGS WILL NOT BE REVIEWED PRIOR TO RECEIVING SLEEVE LAYOUT SHOP DRAWINGS.

042000 CONCRETE UNIT MASONRY

1. SPECIFICATIONS AND STANDARDS: DESIGN OF MASONRY SHALL BE GOVERNED BY THE APPLICABLE VERSION OF:
   A. TMS 402, TMS 403, AND TMS 404.
2. COMPRESSIVE STRENGTH OF MASONRY (f'm) 2,500 PSI, DETERMINED BY UNIT STRENGTH OR PRISM METHOD.
3. MASONRY MATERIALS:
   A. HOLLOW AND SOLID LOAD BEARING CONCRETE MASONRY UNITS - ASTM C90 - NORMAL WEIGHT. NET COMPRESSIVE STRENGTH OF CMU = 3,250 PSI.
   B. CONCRETE BRICK - ASTM C55 GRADE N1.
   C. MORTAR:
      - CONCRETE UNIT MASONRY WALLS - ASTM C270 TYPE S.
   D. COARSE MASONRY GROUT: COMPLY WITH ASTM C476.
      - 28-DAY COMPRESSIVE STRENGTH TO MATCH F'M GIVEN IN ITEM 1.
      - PROVIDE GROUT WITH A SLUMP OF 8-11 INCHES AS MEASURED ACCORDING TO ASTM C143.
      - TESTING - PROVIDE ONE SET OF TESTS FOR EACH 5,000 SF OF WALL WITH A MINIMUM OF ONE TEST PER DAY. TESTS SHALL CONSIST OF EITHER (2) 6"X12" CYLINDERS, (3) 4"X8" CYLINDERS OR A GROUT TEST PER ASTM C 1019.
   E. MASONRY REINFORCEMENT:
      - HORIZONTAL JOINT REINFORCEMENT: 9 GA DEFORMED WIRE, LADDER TYPE REINFORCEMENT.
        a. IN EVERY SECOND BLOCK COURSE, FULL HEIGHT, AND WHERE SHOWN ON DRAWINGS.
        b. IN FIRST BED JOINT ABOVE AND BELOW OPENINGS EXTENDING 24" BEYOND OPENING.
        c. LAP REINFORCEMENT A FULL WIDTH AT CORNERS AND INTERSECTIONS.
      - VERTICAL REINFORCING: ASTM A615-GRADE 60
4. BEARING POINTS:
   A. BEAMS: 3 COURSES x 24" WIDE SOLID OR GROUTED SOLID MASONRY.
   B. JOISTS & LINTELS: 2 COURSES x 16" WIDE SOLID OR GROUTED SOLID MASONRY.
   C. PRECAST DECK: ONE COURSE SOLID OR GROUTED SOLID MASONRY.
5. REINFORCED MASONRY:
   A. INSTALL REINFORCING BARS IN LOCATIONS SHOWN. SEE TABLE BELOW FOR LAP SPLICE REQUIREMENTS.

   CMU LAP SPLICE SCHEDULE (f'm≥2000 PSI):

BAR SIZE	8" CMU - CENTERED	12" CMU - CENTERED	8" CMU - EDGE	12" CMU - EDGE
#4	13"	N/A	22"	N/A
#5	20"	13"	35"	34"
#6	38"	24"	64"	64"
#7	52"	33"	87"	87"
#8	79"	50"	131"	131"
#9	N/A	64"	N/A	166"

   NOTES: CENTERED & EDGE REFER TO THE REINFORCING BAR POSITION IN MASONRY WALL. FOR EDGE CONDITIONS, PROVIDE 2" OF COVER FROM EXTERIOR FACE OF CMU TO EDGE OF REINFORCING BAR.

   B. GROUT BLOCK WITH COARSE MASONRY GROUT VIBRATED IN PLACE TO FILL ALL VOIDS AND INTERSTICES. FOLLOW RECOMMENDATIONS OF NCMA TEK NO. 3-2.
6. CONTROL JOINTS:
   A. INSTALL CONTROL JOINTS IN ALL MASONRY WALLS AS INDICATED ON PLAN AND AT A SPACING NOT TO EXCEED THE LESSER OF THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER.
   B. INSTALL CONTROL JOINTS AT THE FOLLOWING LOCATIONS:
      - CHANGE IN WALL HEIGHT.
      - CHANGE IN WALL THICKNESS.
      - TRANSITION FROM INTERIOR WALL TO EXTERIOR WALL.
      - TRANSITION FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB
   C. STOP ALL HORIZONTAL REINFORCING AT CONTROL JOINTS UNLESS NOTED OTHERWISE.
7. POST-INSTALLED SLEEVE ANCHORS: (FOR USE IN HOLLOW OR GROUT-FILLED CONCRETE MASONRY):
   A. THE ENTIRE ANCHOR SHALL BE [CARBON STEEL] [STAINLESS STEEL].
   B. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE BASIS OF DESIGN PRODUCT OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT DEPTH, ORIENTATION, EDGE DISTANCE, SPACING & PLACEMENT RELATING TO JOINTS IN MASONRY. BASIS OF DESIGN: HILTI HLC SLEEVE ANCHOR. INSTALL PER MANUFACTURER'S PRODUCT LITERATURE AND INSTALLATION GUIDELINES.
8. POST-INSTALLED SCREW ANCHORS: (FOR USE IN GROUT-FILLED CONCRETE MASONRY):
   A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL; FOR INTERIOR USE ONLY.
   B. THE ANCHOR SHALL COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT SHOWING SUITABILITY FOR USE WITH GROUT-FILLED CONCRETE MASONRY.
   C. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE BASIS OF DESIGN PRODUCT OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT DEPTH, ORIENTATION, EDGE DISTANCE, SPACING & PLACEMENT RELATING TO JOINTS IN MASONRY. BASIS OF DESIGN: HILTI KWIK HUS-EZ SCREW ANCHOR. INSTALL PER MANUFACTURER'S LITERATURE AND INSTALLATION GUIDELINES.
9. POST-INSTALLED WEDGE ANCHORS: (FOR USE IN GROUT-FILLED CONCRETE MASONRY):
   A. THE ENTIRE ANCHOR SHALL BE [CARBON STEEL] [STAINLESS STEEL; AISI 304 OR 316] [GALVANIZED STEEL].
   B. THE ANCHOR SHALL COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT SHOWING SUITABILITY WITH GROUT-FILLED CONCRETE MASONRY.
   C. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE BASIS OF DESIGN PRODUCT OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT DEPTH, ORIENTATION, EDGE DISTANCE, SPACING & PLACEMENT RELATING TO JOINTS IN MASONRY. BASIS OF DESIGN: HILTI KWIK BOLT 3 WEDGE ANCHOR. INSTALL PER MANUFACTURER'S LITERATURE AND INSTALLATION GUIDELINES.
10. POST-INSTALLED ADHESIVE ANCHORS: (FOR USE IN HOLLOW OR GROUT-FILLED CONCRETE MASONRY)
   A. THE ENTIRE ANCHOR SHALL BE [THREADED ROD ASTM A36, ASTM A307, ASTM A193 B7, ISO 898 CLASS 5.8] [STAINLESS STEEL ASTM F593 AISI 304 OR 316] [OR REINFORCING BAR ASTM A615 - GRADE 60].
   B. THE ADHESIVE ANCHOR SYSTEM SHALL COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY AN ICC-ES EVALUATION REPORT SHOWING SUITABILITY WITH HOLLOW AND GROUT-FILLED CONCRETE MASONRY.
   C. PLASTIC MESH SCREEN TUBES SHALL BE PROVIDED AT ALL HOLLOW MASONRY APPLICATIONS.
   D. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE BASIS OF DESIGN PRODUCT OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT DEPTH, ORIENTATION, EDGE DISTANCE, SPACING & PLACEMENT RELATING TO JOINTS IN MASONRY. BASIS OF DESIGN: HILTI HIT-HY 270 ADHESIVE. INSTALL PER MANUFACTURER'S LITERATURE AND INSTALLATION GUIDELINES.
11. COORDINATE BLOCK-OUTS, REVEALS, OPENINGS AND ALL OTHER BUILT-IN ITEMS WITH ALL CONTRACT DOCUMENTS AND TRADES.

051200 - STRUCTURAL STEEL FRAMING

1. SPECIFICATIONS AND STANDARDS:
   UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY:
   A. ANSI/AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. [ASD] [LRFD]
   B. AISC 341 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, INCLUDING SUPPLEMENT 1.
   C. AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
   D. AWS STANDARD WELDING SYMBOLS.
   E. AWS D1.1 STRUCTURAL WELDING CODE - STEEL. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
   F. RCSC - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
2. TESTING:
   A. WELDS: [VISUAL] [NON_DESTRUCTIVE] TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY ON ALL CRITICAL WELDS AND ON 25% OF NONCRITICAL WELDS. INADEQUATE WELDS SHALL BE STRENGTHENED OR CUT OUT AND REPLACED AS DIRECTED. CRITICAL WELDS SHALL BE DEFINED AS ALL FULL PENETRATION WELDS, ALL WELDS IN MOMENT CONNECTIONS AND AS NOTED AS CRITICAL WELDS ON THE STRUCTURAL DETAILS.
   B. STRUCTURAL STEEL: PROVIDE MILL REPORTS FOR PROPERLY IDENTIFIED MATERIALS ON REQUEST.
   C. A325 AND A490 BOLTS: PROVIDE BOLT INSPECTION AS DETAILED IN SECTION 9 OF SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS.
3. MATERIALS:
   A. "W" SHAPES: ASTM A992 Fy = 50 KSI, ASTM A572 Fy = 50 KSI.
   B. CHANNELS: ASTM A36.
   C. ANGLES, PLATES AND BARS: ASTM A36.
   D. RECTANGULAR HOLLOW STRUCTURAL SECTIONS: ASTM A500 GR C, Fy = 50 KSI, ASTM A1085, Fy = 50 KSI.
   E. ROUND HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C, Fy = 50 KSI.
   F. WELDING ELECTRODES: AWS A5.1 OR A5.5 SERIES E70.
   G. BOLTS: ASTM F3125 GRADE [A325] [A490], TYPE I, HEAVY-HEX STEEL STRUCTURAL BOLTS.
   H. ANCHOR RODS: ASTM F1554 [GRADE 36] [GRADE 55] [GRADE 105].
   I. NUTS AND WASHERS: ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.
   J. SHEAR CONNECTORS: ASTM A108, AWS D1.1, TYPE B, HEADED STUD TYPE.
   K. PAINT AND PROTECTION - NONE EXCEPT AS NOTED BELOW:
      - INTERIOR MEMBERS EXPOSED TO VIEW IN THE FINISHED STRUCTURE - PRIME COAT, TOUCH UP AFTER ERECTION.
      - MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE, SHELF ANGLES AND LINTELS IN EXTERIOR WALLS - GALVANIZED PER ASTM A123 AFTER FABRICATION.
   L. SHRINKAGE-RESISTANT GROUT: ASTM C1107, NON-METALLIC AGGREGATE, NON-CORROSIVE, NON-STAINING. F'C= 5,000 PSI MIN.
4. LINTELS:
   A. LINTELS FOR EXTERIOR WALL OPENINGS - HOT DIPPED GALVANIZED.
   B. 8" BEARING EACH SIDE OF OPENINGS UNLESS NOTED.
   C. UNLESS SHOWN OTHERWISE, PROVIDE 1 ANGLE FOR EACH 4" WALL THICKNESS AS FOLLOWS:

MASONRY OPENING	ANGLE SIZE
3'-6" OR LESS	L3-1/2"x3-1/2"X1/4
3'-7" TO 5'-0"	L4x3-1/2x1/4 LLV
5'-1" TO 8'-0"	L5x3-1/2x5/16 LLV
8'-1" TO 10'-0"	L6x3-1/2"x5/16" LLV

5. CONNECTION REQUIREMENTS:
   A. DESIGN CONNECTIONS FOR VERTICAL REACTIONS SHOWN ON DRAWINGS OR FOR FULL CAPACITY OF MEMBER WHERE NO REACTION IS SHOWN.
   B. DESIGN MOMENT BEAM CONNECTIONS FOR VALUES SHOWN OR FOR FULL MOMENT CAPACITY OF MEMBER.
   C. CONNECTIONS SHOWN AND DETAILED ON THE DRAWINGS MAY BE REDESIGNED BY THE STRUCTURAL STEEL CONTRACTOR FOR EQUAL FORCES PROVIDED THE SAME ARRANGEMENT OF MEMBERS IS USED AND THE OVERALL SIZE OF THE CONNECTION DOES NOT EXCEED THAT OF THE CONNECTION DETAILED.
   D. OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR TYPES OF CONNECTIONS BEFORE FABRICATION.
   E. ALL BOLTED CONNECTIONS TO BE SHEAR/BEARING TYPE WITH BOLTS IN THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE.
6. MISCELLANEOUS REQUIREMENTS:
   A. ROUND PENETRATIONS ARE PERMITTED IN THE WEB OF WIDE-FLANGE MEMBERS THAT MEET ALL OF THE FOLLOWING CRITERIA. CONTACT SMBH FOR PENETRATIONS THAT DO NOT MEET THESE CRITERIA.
      - OPENING DIAMETER IS LESS THAN OR EQUAL TO 0.15 TIMES THE DEPTH OF THE BEAM.
      - EDGE OF OPENING IS A MINIMUM OF 0.15 TIMES THE DEPTH OF THE BEAM FROM THE TOP AND BOTTOM OF THE BEAM.
      - OPENINGS ARE NOT PERMITTED WITHIN 1.0 TIMES THE DEPTH OF THE BEAM AWAY FROM THE ENDS.
      - OPENINGS ARE NOT PERMITTED WITHIN 0.5 TIMES THE DEPTH OF THE BEAM AWAY FROM AN INFILL BEAM CONNECTION.
      - EDGES OF ADJACENT OPENINGS ARE AT LEAST 2X THE LARGEST OPENING DIAMETER APART.
   B. STEEL FRAMING INTENDED TO SUPPORT EQUIPMENT OR MECHANICAL/ELECTRICAL/PLUMBING OPENINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF STEEL ANGLE FRAMES FOR OPENINGS THAT ARE SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
   C. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE OR 4" OF MASONRY.
   D. 1/4" THICK SETTING PLATES FOR ALL BEAMS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A BEARING PLATE. ANCHOR THE SETTING PLATE TO THE WALL WITH TWO 1/2"x6" HEADED STUDS.
   E. DO NOT PAINT THE BACK FACE OF EMBED PLATES THAT ARE EMBEDED IN CONCRETE.
   F. PROVIDE ANGLE SUPPORTS FOR METAL DECK RIBS AT COLUMNS WHEN THE COLUMN SIZE PREVENTS THE RIBS FROM CONTINUING TO THE BEAMS THAT ARE SUPPORTING THE DECK AT COLUMN LINES.
   G. UNLESS NOTED OTHERWISE, FIREPROOFING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRERATING REQUIREMENTS, METHODS AND MATERIALS.
   H. SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

052100 - STEEL JOIST FRAMING

1. DESIGN, MANUFACTURING, AND ERECTION: ACCORDING TO THE STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS & JOIST GIRDERS ADOPTED BY THE STEEL JOIST INSTITUTE.
2. STEEL JOISTS OF THE SAME DEPTH AND CHORD DESIGNATION SHALL HAVE MEMBER SIZES OF UNIFORM CONSISTENCY.
3. PAINT ALL JOISTS WITH MANUFACTURERS STANDARD SHOP PRIMER UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.
4. PROVIDE ADDITIONAL WEB MEMBERS AS REQUIRED AT CONCENTRATED LOADS THAT DO NOT OCCUR AT PANEL POINTS. SEE TYPICAL DETAIL.
5. BRIDGING:
   A. BRIDGING QUANTITY AND SPACING AS REQUIRED BY SJI SPECIFICATION AND PER ERECTION DRAWINGS OF JOIST SUPPLIER.
   B. ANCHOR ALL BRIDGING TO INTERSECTING WALLS AND BEAMS UNLESS OTHERWISE SHOWN.
   C. HORIZONTAL TOP AND BOTTOM BRIDGING MAY BE USED INSTEAD OF DIAGONAL BRIDGING ON LH, DLH AND SLH JOISTS WHERE REQUIRED FOR PASSAGE OF MECHANICAL DUCTS. NO MORE THAN TWO ADJACENT SPACES MAY HAVE HORIZONTAL BRIDGING.
6. CONNECTIONS TO SUPPORTING STEEL:
   A. WELDING:
      - 2 1/2" OF 1/8" FILLET EACH SIDE FOR K AND KCS JOISTS.
      - 2 1/2" OF 3/16" FILLET EACH SIDE FOR LH02-06 JOISTS.
      - 2 1/2" OF 1/4" FILLET WELD EACH SIDE FOR LH07-17, DLH10-17, JOIST GIRDER ≤ 50 PLF
      - 4" OF 1/4" FILLET WELD EACH SIDE FOR DLH18-25 AND JOIST GIRDER > 50 PLF
   B. BOLTING:
      - (2) 1/2" DIAMETER A307 FOR K AND KCS AND LH02-06 JOISTS.
      - (2) 3/4" DIAMETER A307 FOR LH07-17, DLH10-17 AND JOIST GIRDER ≤ 50 PLF.
      - (2) 3/4" DIAMETER A325 FOR DLH-25 AND JOIST GIRDER > 50 PLF.
   C. BOLT JOISTS AT OR NEAREST TO COLUMNS, PER SJI SPECIFICATIONS.
   D. EXTEND BOTTOM CHORD OF JOISTS IN LINE WITH COLUMNS TO STABILIZER PLATES ON COLUMNS OR BEAMS.
7. MINIMUM BEARING REQUIREMENTS, UNLESS NOTED OTHERWISE:
   A. K SERIES: 2 1/2" ON STRUCTURAL STEEL, 4" ON CONCRETE OR MASONRY.
   B. JOIST GIRDERS: 4" ON STRUCTURAL STEEL, 6" ON CONCRETE OR MASONRY.
   C. LH SERIES: 2 1/2" FOR LH02-06 ON STRUCTURAL STEEL, 4" ON CONCRETE OR MASONRY; 4" FOR LH07-17 ON STRUCTURAL STEEL, 6" ON CONCRETE OR MASONRY.
8. PROVIDE MATCHING HEIGHT SEATS ON JOISTS THAT HAVE COMMON BEARING. SHOE HEIGHTS TO MATCH SJI STANDARDS UNLESS NOTED OTHERWISE.
9. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL DUCTS.
10. JOIST SUPPLIER SHALL VERIFY THAT JOISTS AND BRIDGING ARE CAPABLE TO RESIST THE NET UPLIFT LOADS SPECIFIED.
11. JOIST SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.
12. DEFLECTION CRITERIA FOR JOIST / JOIST GIRDER DESIGN (UNLESS NOTED OTHERWISE):
      - ROOF TOTAL LOAD: L/180 FLOOR TOTAL LOAD: L/240
      - ROOF LIVE LOAD: L/240 FLOOR LIVE LOAD: L/360
13. JOIST SHOES AT ROOF DIAPHRAGMS SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR (ROLL- OVER) TO THE SUPPORTING STRUCTURE. SEE ROOF PLAN FOR LOADS.

053100 - STEEL DECKING

1. SPECIFICATIONS AND STANDARDS:
   A. DESIGN FABRICATION AND ERECTION OF STEEL DECK SHALL BE GOVERNED BY THE CURRENT EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
   B. PROPERTIES OF THE STRUCTURAL STEEL DECK SHALL BE COMPUTED IN ACCORDANCE WITH THE REFERENCE STANDARD. THE PROPERTIES SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
   C. AWS STANDARD WELDING SYMBOLS.
   D. AWS D1.3 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES.
   E. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
2. PRODUCTS:
   A. WIDE RIB ROOF DECK:
      - PRIME-PAINTED STEEL DECK: ASTM A1008, STRUCTURAL STEEL (SS), GRADE 50 MIN.
      - GALVANIZED STEEL DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 50 MIN, G60 ZINC COATING.
      - GALVANIZED AND PRIME-PAINTED DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 50 MIN, G60 ZINC COATING.
   B. COMPOSITE FLOOR DECK:
      - GALVANIZED STEEL DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 40 MIN, G60 ZINC COATING.
      - GALVANIZED AND PRIME-PAINTED DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 40 MIN, G60 ZINC COATING.
   C. NON-COMPOSITE FORM DECK:
      - PRIME-PAINTED STEEL DECK: ASTM A1008, STRUCTURAL STEEL (SS), GRADE 40 MIN.
      - GALVANIZED STEEL DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 40 MIN, G60 ZINC COATING.
      - GALVANIZED AND PRIME-PAINTED DECK: ASTM A653, STRUCTURAL STEEL (SS), GRADE 40 MIN, G60 ZINC COATING.
3. CONNECTIONS:
   A. ROOF DECK
      - SEE ROOF DECK ATTACHMENT PLAN FOR PATTERN AND CONNECTION TYPE.
      - ANCHOR STEEL DECK TO STEEL SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS AT A MAXIMUM AVERAGE SPACING OF 12 INCHES O.C. (36/4 PATTERN) UNLESS SHOWN OTHERWISE.
      - ANCHOR STEEL DECK TO COLD FORMED METAL TRUSSES WITH #12 SCREWS AT 12" O.C. MAX UNLESS SHOWN OTHERWISE.
      - FOR DECK SPANS GREATER THAN FIVE FEET, SIDE LAP FASTENERS SHALL BE SPACED AT INTERVALS NOT EXCEEDING 36 INCHES, UNLESS NOTED, USING #10 SCREWS, 5/8" DIAMETER PUDDLE WELDS, OR 1 1/2" LONG FILLET WELDS. MINIMUM 1 SIDELAP CONNECTION PER SPAN.
      - MECHANICAL FASTENERS MAY BE USED IN LIEU OF WELDING TO FASTEN DECK. SUBMIT SUBSTITUTION REQUEST WITH PRODUCT DATA, ATTACHMENT PATTERN AND PERFORMANCE DATA INDICATING DIAPHRAGM CAPACITY MEETS OR EXCEEDS THAT OF THE SPECIFIED WELD PATTERN.
   B. COMPOSITE AND NON-COMPOSITE FLOOR DECK
      - ANCHOR STEEL DECK TO STEEL SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS AT A MAXIMUM AVERAGE SPACINGOF 12 INCHES UNLESS SHOWN OTHERWISE. WELDED SHEAR STUDS MAY REPLACE PUDDLE WELDS FOR DECKS WITH COMPOSITE CONCRETE SLABS.
      - FOR DECK SPANS GREATER THAN FIVE FEET, SIDE LAP FASTENERS SHALL BE SPACED AT INTERVALS NOT EXCEEDING 36 INCHES, UNLESS NOTED, USING #10 SCREWS, 5/8" DIAMETER PUDDLE WELDS, OR 1 1/2" LONG FILLET WELDS. MINIMUM 1 SIDELAP CONNECTION PER SPAN.
      - MECHANICAL FASTENERS MAY BE USED IN LIEU OF WELDING TO FASTEN DECK. SUBMIT SUBSTITUTION REQUEST WITH PRODUCT DATA, ATTACHMENT PATTERN AND PERFORMANCE DATA INDICATING DIAPHRAGM CAPACITY MEETS OR EXCEEDS THAT OF THE SPECIFIED WELD PATTERN.
   C. WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60.
   D. WELDED WASHERS SHALL BE USED ON ALL DECK UNITS THINNER THAN 22 GAGE.
4. ERECTION AND FABRICATION:
   A. MINIMUM BEARING: 2 INCHES UNLESS OTHERWISE SHOWN.
   B. ROOF DECK MINIMUM LAP LENGTH: 4 INCHES UNLESS NOTED OTHERWISE.
   C. COMPOSITE FLOOR DECK SHALL HAVE BUTTED ENDS OVER SUPPORTS.
   D. NON-COMPOSITE FLOOR DECKS SHALL BE EITHER LAPPED OR BUTTED OVER SUPPORTS.
   E. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.
   F. CONSTRUCTION TO BE UNSHORED. DECK SUPPLIER SHALL PROVIDE DECK WITH SPECIFIED DEPTH THAT MEETS THIS REQUIREMENT (SEE SPANS BELOW). NOTIFY ENGINEER IF GAGE IS REQUIRED TO BE INCREASED FROM GAGE SHOWN ON DRAWINGS.
      - MINIMUM UNSHORED SPANS (SINGLE SPAN / DOUBLE SPAN / TRIPLE SPAN):
        a. COMPOSITE DECK: 6'-1"/7'-1"/7'-3" FOR 1 1/2 X 20 GA, 4 1/2" NW SLAB OR 7'-6"/8'-5"/8'-9" FOR 2 X 20 GA, 5 1/2" NW SLAB.
        b. FORM DECK: 3'-5"/4'-0"/4'-0" FOR 9/16" X 24 GA, 3" NW SLAB OR 5'-5"/6'-10"/6'-8" FOR 1" X 22 GA, 3 1/2" NW SLAB OR 6'-5"/7'-5"/7'-7" FOR 1 1/2" X 20 GA, 4" NW SLAB.
   G. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
   H. DECK SUPPLIER TO PROVIDE DECK CLOSURE WHERE REQUIRED FOR CONCRETE PLACEMENT.
5. OPENINGS IN STEEL DECK.
   A. OPENINGS CUT IN THE STEEL DECK SHALL BE REINFORCED OR SHALL BE SUPPORTED ON STEEL ANGLE FRAMES. COORDINATE SIZES AND LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
   B. OPENINGS IN STEEL DECK EQUAL TO OR LESS THAN 12"x12" SHALL BE REINFORCED WITH A 24"x24" – 16 GAGE PLATE SCREWED OR WELDED TO THE DECK RIBS ON ALL SIDES OF THE OPENING.
   C. OPENINGS IN ROOF DECK GREATER THAN 12"x12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES.
   D. OPENINGS IN CONCRETE SLABS ON STEEL FLOOR DECK GREATER THAN 12"x12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES UNLESS ALL OF THE FOLLOWING CRITERIA ARE SATISFIED:
      - OPENING SIZE IS LESS THAN OR EQUAL TO 24"x24".
      - THE STEEL DECK IS CUT AFTER THE CONCRETE HAS HARDENED.
      - THE CONCRETE SLAB IS REINFORCED WITH (1) #4 x 6'-0" LONG ON EACH SIDE OF THE OPENING.

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Revision Schedule

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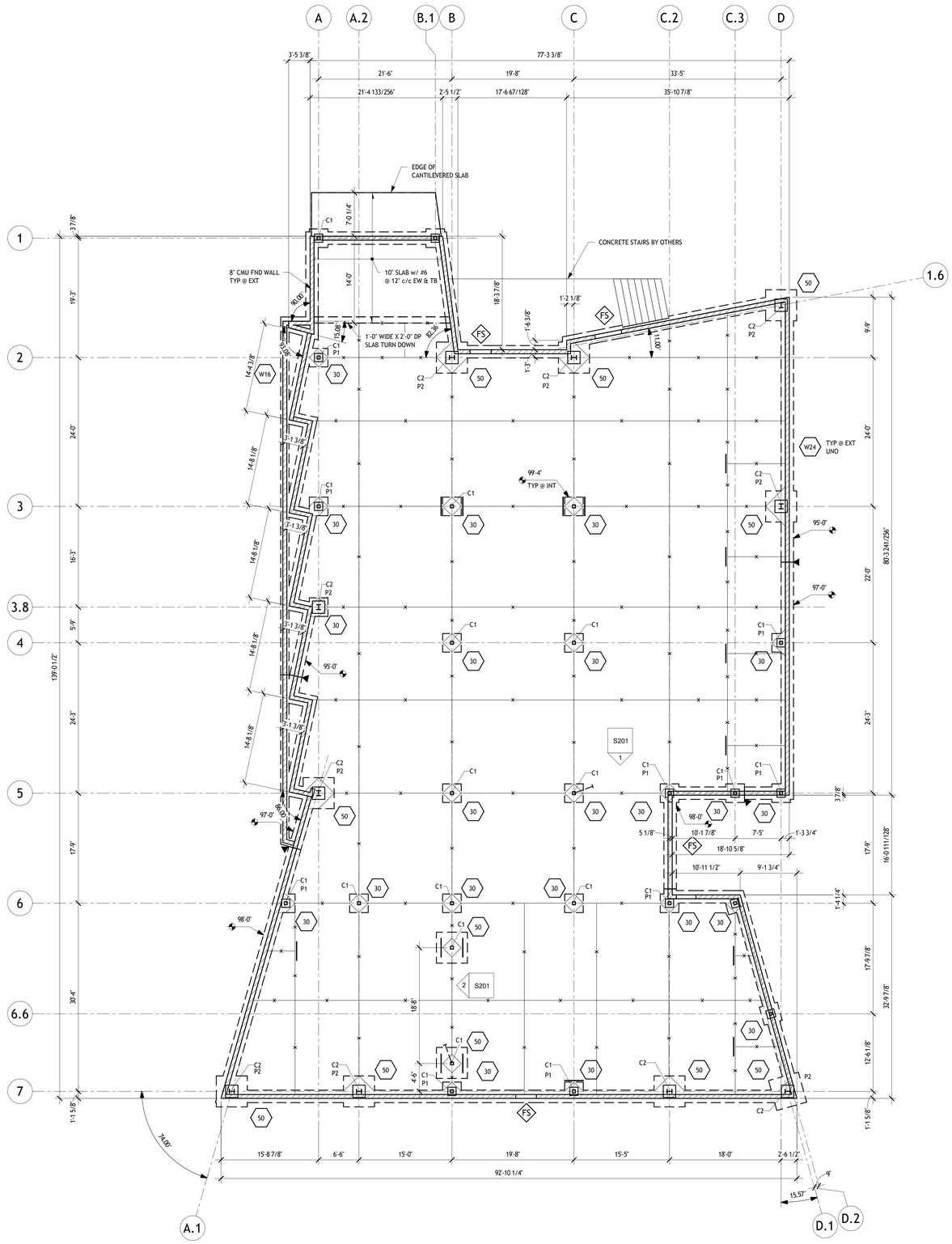
GENERAL NOTES

S002

Issue Date

22150



FOOTING SCHEDULE - WALL FOOTINGS

TYPE	SIZE			REINFORCING	REMARKS
	WIDTH	LENGTH	THICKNES		
W16	1'-4"	CONT	1'-0"	(2) #5 CONT	
W24	2'-0"	CONT	1'-0"	(2) #5 CONT	

FOOTING SCHEDULE - ISOLATED FOOTINGS

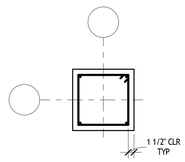
TYPE	SIZE			REINFORCING	REMARKS
	WIDTH	LENGTH	THICKNESS		
30	3'-0"	3'-0"	1'-0"	(3) #4 EWB	
50	5'-0"	5'-0"	1'-4"	(7) #5 EWB	

PIER SCHEDULE

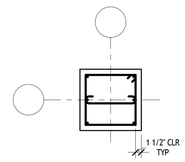
MARK	WIDTH	LENGTH	REINFORCING	REMARKS
P1	1'-4"	1'-4"	(4) #6 VERT & #4 TIES @ 12" c/c	TYPE 1
P2	2'-0"	2'-0"	(8) #6 VERT & #4 TIES @ 12" c/c	TYPE 2

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE SIZE & TYPE (tx|wt)	ANCHOR BOLTS x EMBED	REMARKS
C1	HSS6X6X1/4	3'-4"X12"X1'-0" TYPE II		
C2	W10X49	1'-8"X1'-6" TYPE I		
C3	HSS5X5X3/8	3'-4"X12"X1'-0" TYPE II		

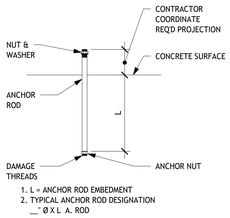


TYPE I



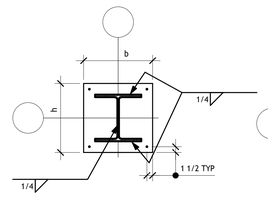
TYPE II

1 PIER REINFORCEMENT DETAIL
5101 3/4" = 1'-0"

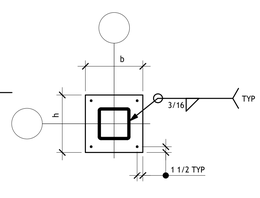


1. L = ANCHOR ROD EMBEDMENT
2. TYPICAL ANCHOR ROD DESIGNATION
   __" Ø X L A. ROD

2 TYPICAL ANCHOR ROD DETAIL
5101 3/4" = 1'-0"



TYPE I



TYPE II

3 BASE PLATE DETAILS
5101 3/4" = 1'-0"

FOUNDATION PLAN NOTES

1. VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
2. 4" SLAB ON GRADE WITH 6x6-W1.4xW1.4 WWR. TYPICAL EXCEPT AS NOTED. PROVIDE 4" OF GRANULAR SUBGRADE BELOW SLAB UNLESS NOTED OTHERWISE IN THE REFERENCED GEOTECHNICAL REPORT.
3. TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION.
4. DESIGN SOIL BEARING PRESSURE 1500 PSF (ASSUMED). ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS. GEOTECHNICAL INFORMATION INCLUDED IN THE CONSTRUCTION DOCUMENTS WAS OBTAINED FROM A REPORT ISSUED BY xxx, PROJECT NUMBER xxx, DATED xxx.
5. INFORMATION FOR THE EXISTING BUILDING HAS BEEN TAKEN FROM DRAWINGS AND HAS NOT BEEN VERIFIED IN THE FIELD. CONTRACTOR SHALL VERIFY ALL RELEVANT CONDITIONS AND DIMENSIONS OF EXISTING CONSTRUCTION BEFORE PROCEEDING WITH THE WORK.
6. ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB.
7. TOP OF FOOTING ELEVATION 98'-0" UNLESS NOTED.
8. REINFORCING STEEL INDICATED FOR FOOTINGS IS BOTTOM STEEL. THE LAST DIMENSION GIVEN FOR A FOOTING SIZE IS THE DEPTH. FOOTINGS TO CENTER UNDER COLUMN OR WALL UNLESS NOTED.
9. ALL EXTERIOR FOOTINGS ARE TO EXTEND A MINIMUM OF 2'-8" BELOW FINISHED GRADE.
10. DO NOT BACKFILL AGAINST THE FOUNDATION WALLS UNTIL BOTH LEVELS OF THE FLOOR SLAB ARE IN PLACE OR PROVIDE TEMPORARY SUPPORT. WHERE FILL IS ON BOTH SIDES OF A WALL, INSTALL THE FILL UNIFORMLY ON BOTH SIDES OF THE WALL.
11. REFERENCE: GENERAL STRUCTURAL NOTES - S002; COLUMN SCHEDULE - THIS SHEET.

12. SYMBOL LEGEND:

- INDICATES TOP OF FOOTING ON PLAN.
- INDICATES FOOTING MARK. SEE SCHEDULE ON THIS SHEET.
- INDICATES STEP IN FOOTING ON PLAN. SEE SECTION 3/S301.
- INDICATES FLOOR CONTROL OR CONSTRUCTION JOINT ON PLAN. SEE SECTIONS 1 & 2/S301.
- INDICATES FROST SLAB. SEE SECTIONS 4/S301 FOR MORE INFORMATION.
- C# P# INDICATES COLUMN (OR PIER) ON PLAN. SEE SCHEDULE ON THIS SHEET.

FOUNDATION PLAN

1/8" = 1'-0"

NORTH

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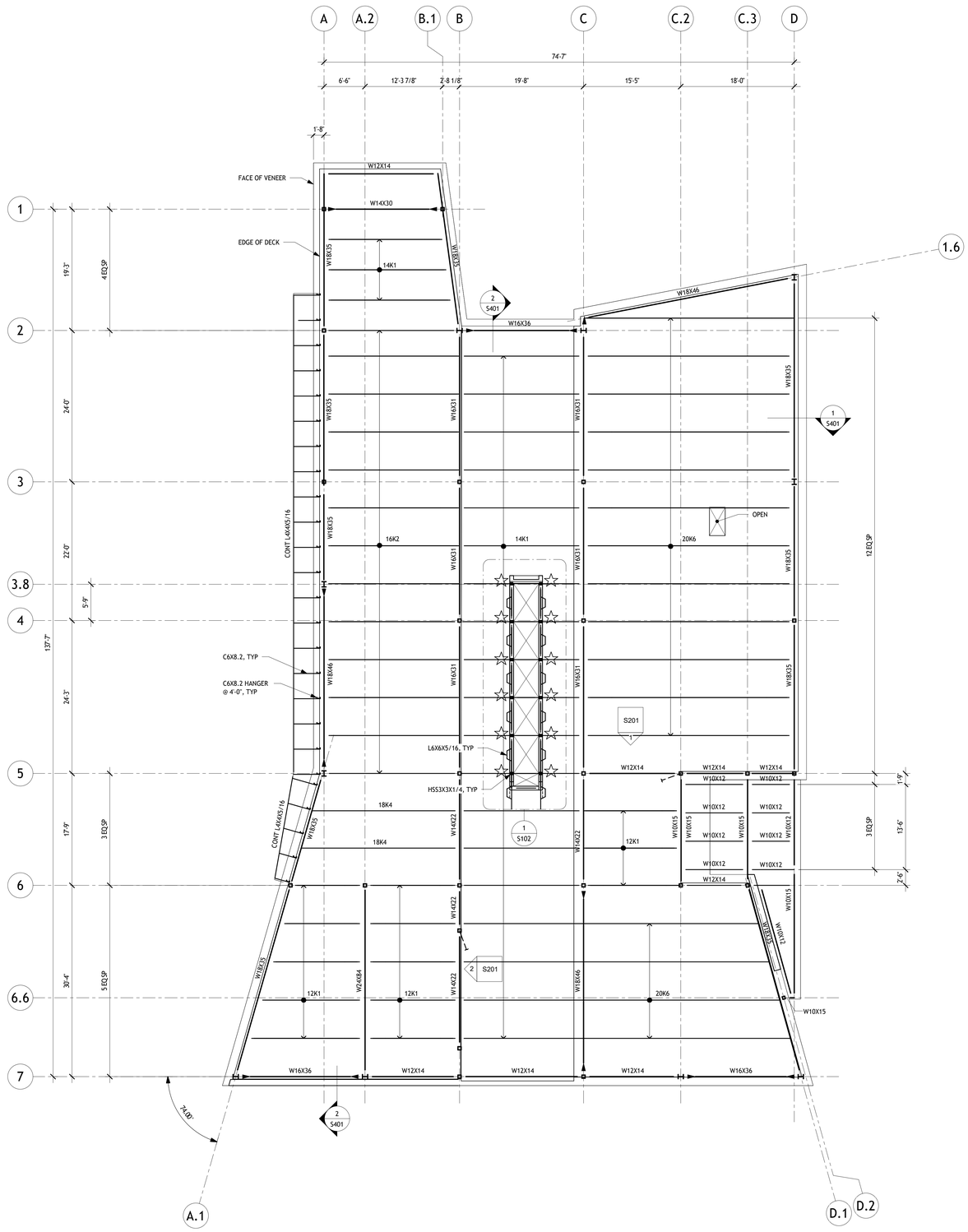
FOUNDATION PLAN

S101

Issue Date

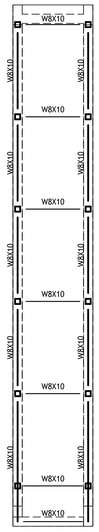
22150



ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH



1 S102 ROOF MONITOR FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

1. DESIGN LIVE LOADS: ROOF SNOW LOAD BASED ON 20 PSF GROUND SNOW LOAD. ROOF LIVE LOAD = 20 PSF (REDUCIBLE).
2. ROOF CONSTRUCTION: 1 1/2"x20 GAGE TYPE B PAINTED METAL DECK.
3. JOIST SUPPLIER TO DESIGN FOR THE FOLLOWING NET UPLIFT PRESSURES (ASD). DIMENSION "a" EQUALS ___ FT. SEE ASCE 7 FOR DIAGRAMS OF VARIOUS ROOF PROFILES.
   AREA 1 (FIELD) - ____ PSF AREA 2 (EDGE) - ___ PSF AREA 3 (CORNER) ___ PSF
4. JOIST BRIDGING - PROVIDE TOP AND BOTTOM CHORD BRIDGING AS REQUIRED BY SJI.
5. JOISTS ARE UNIFORMLY SPACED BETWEEN ADJACENT COLUMNS, BEAMS OR WALLS UNLESS NOTED OTHERWISE.
6. JOIST SUPPLIER TO COORDINATE JOIST DESIGN WITH FIRE PROTECTION DRAWINGS. SUBMIT FIRE PROTECTION DRAWINGS FOR REVIEW. SEE TYPICAL DETAILS FOR SPRINKLER PIPE SUPPORT
7. REFERENCES: GENERAL STRUCTURAL NOTES - S002; COLUMN SCHEDULE - S101; LINTEL SCHEDULE - S002.
8. SYMBOL LEGEND:

- INDICATES BOTTOM OF METAL DECK ELEVATION, UNLESS NOTED OTHERWISE.
- 20K • INDICATES BEAM REACTION IN KIPS. SAME BOTH ENDS EXCEPT AS SHOWN.
- INDICATES BEAM SHEAR SPLICE.
- INDICATES FRAMED OPENING - PROVIDE FRAME USING L's 31/2x31/2x1/4 - 4 SIDES. CONTRACTOR COORDINATE OPENING SIZES WITH MECHANICAL AND ARCHITECTURAL REQUIREMENTS. FRAMES ARE REQUIRED AT ROOF DRAINS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR NUMBERS AND LOCATIONS.
- INDICATES MOMENT AND SHEAR CONNECTION ON PLAN. SEE SECTION ____.
- INDICATES COLUMN ABOVE.

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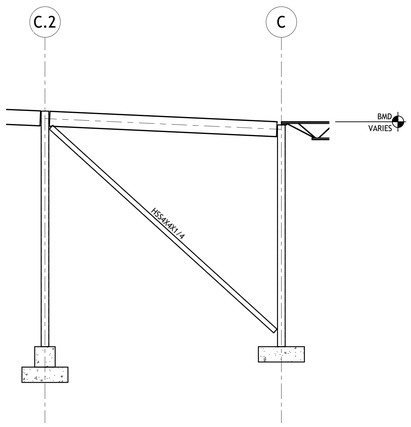
ROOF FRAMING PLAN

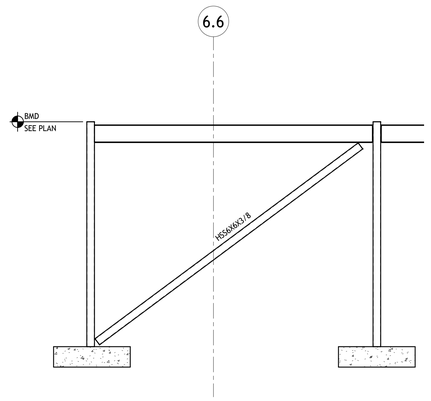
S102

Issue Date

22150



1 5201 BRACE FRAME ELEVATION
1/4" = 1'-0"



2 5201 BRACE FRAME ELEVATION
1/4" = 1'-0"

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BRACE FRAMING

S201

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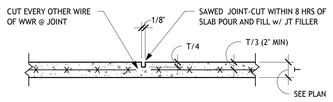
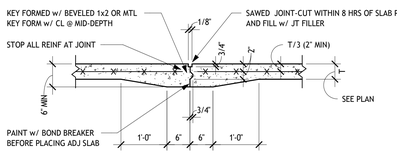
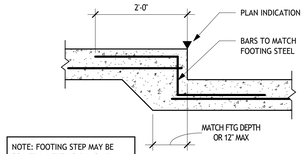


1. PROVIDE TOOLED JOINTS IN FRESH CONCRETE EACH SIDE OF WALLS WHERE SLABS POUR THRU DOORWAYS.
2. PROVIDE A #4 BARx3'-0" AT MID-DEPTH OF THE SLAB PERPENDICULAR TO JOINTS THAT TERMINATE AT A PARTICULAR JOINT.

1 S301 **DETAIL** NO SCALE

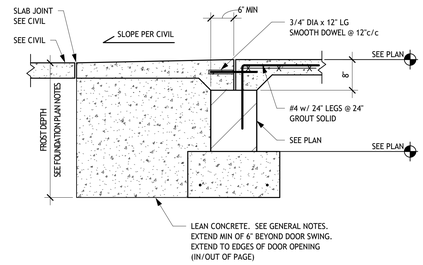


2 S301 **DETAIL** NO SCALE



NOTE: FOOTING STEP MAY BE SCALED WHERE NO DIM ON PLAN

3 S301 **DETAIL** NO SCALE



4 S301 **SECTION** NO SCALE

5 S301 **SECTION** 3/4" = 1'-0"

6 S301 **SECTION** 3/4" = 1'-0"

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SECTIONS

S301

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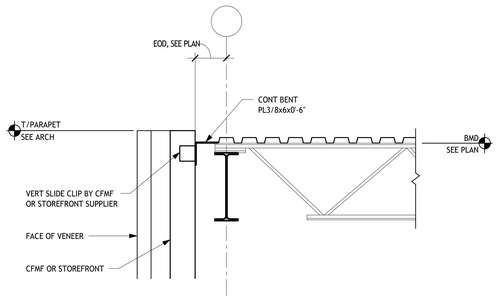
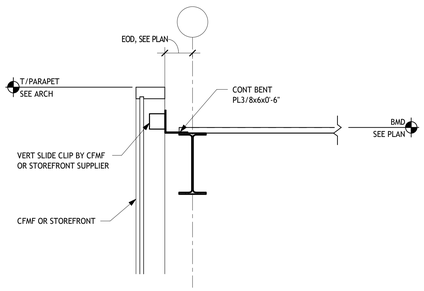
22150



1 / S401 SECTION
3/4" = 1'-0"



2 / S401 SECTION
3/4" = 1'-0"

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FRAMING
SECTIONS

S401

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ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
AUTO	AUTOMATIC
AVG	AVERAGE
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CAP	CAPACITY
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DEPT	DEPARTMENT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EL	ELEVATION
EQUIP	EQUIPMENT
EXP	EXPANSION
EXIST	EXISTING
F	FIRE PROTECTION WATER SUPPLY
°F	DEGREES FAHRENHEIT
FDC	FIRE DEPARTMENT CONNECTION
FIN FL EL	FINISHED FLOOR ELEVATION
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IN	INCHES
KW	KILOWATT
LB	POUNDS
LF	LINEAR FEET
LG	LENGTH
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RPM	REVOLUTIONS PER MINUTE
SEC	SECOND
SPEC	SPECIFICATION
STSTL	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
TE	TOP ELEVATION
TOP	TOP OF PIPE
TS	TAMPER SWITCH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	WATER
WG	WATER GAUGE
WGT	WEIGHT
WPIV	SUPERVISED WALL POST INDICATOR VALVE

SYMBOLS LIST

PIPING

EXISTING TO REMAIN — (E)

EXISTING TO BE DEMOLISHED — (D)

EXISTING ABANDONED — (A)

FIRE PROTECTION — F

FIRE PROTECTION AREA

PIPING (FITTINGS, VALVES, AND MISCELLANEOUS)

DROP

RISE

TEE

CAP

FLOW ARROW

PUMP

GLOBE VALVE

SOLENOID VALVE — SOL

SUPERVISED VALVE — SV

PRESSURE REDUCING VALVE — PRV

OUTSIDE STEM & YOKE VALVE

DOUBLE DETECTOR CHECK ASSEMBLY

BUTTERFLY VALVE

BALL VALVE

CHECK VALVE

STRAINER

UNION

PIPE SLEEVE

FLOW SWITCH — FS

PRESSURE SWITCH — PS

UPRIGHT SPRINKLER HEAD

PENDANT OR CONCEALED SPRINKLER HEAD

SIDEWALL SPRINKLER HEAD

DRY-PIPE BARREL SIDEWALL SPRINKLER HEAD

FIRE DEPARTMENT CONNECTION

PRESSURE GAUGE WITH STOPCOCK

NOTATIONS

CONNECT TO EXISTING

BEGINNING AND/OR END OF DEMOLITION

SPRINKLER SYSTEM

DESIGN DENSITY & SPRINKLER COVERAGE CHART

HAZARD CLASSIFICATION		AREA	DENSITY (GPM/SQ. FT)	MAXIMUM COVERAGE AREA PER SPRINKLER (SQ. FT)	DESIGN AREA (SQ FT)
LH	LIGHT HAZARD	ALL SPACES UNLESS OTHERWISE NOTED	0.10	225	1500
OH1	ORDINARY HAZARD GROUP 1	MECHANICAL/ ELECTRICAL ROOMS, STORAGE ROOMS, SHELL OFFICE / RESTAURANT SPACES, TRASH ROOMS	0.15	130	1500

FLOW TEST INFORMATION

STATIC PRESSURE:	-- PSI
RESIDUAL PRESSURE:	-- PSI
HYDRANT FLOW:	-- GPM
PITOT:	-- PSI
FLOW @ 20 PSI:	-- GPM
FLOW HYDRANT:	---
PRESSURE HYDRANT:	---
MAIN SIZE:	-"
ELEVATION:	--'
TEST DATE:	XX/XX/XXXX
TEST TIME:	--:--
TEST BY:	---

GENERAL FIRE PROTECTION NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.

B. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.

C. ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.

D. ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.

E. A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE RED LINED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (PDF) FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.

F. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR THE SPRINKLER SYSTEMS SHOWING ALL SPRINKLER LOCATIONS, SPACED AND LOCATED IN ACCORDANCE WITH NFPA 13. THE SHOP DRAWINGS SHALL BE APPROVED IN WRITING PRIOR TO STARTING THE INSTALLATION.

G. ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATING OF THE PENETRATED BARRIER.

H. CORE DRILL PENETRATIONS IN CONCRETE FLOORS OR WALLS 1-2 INCHES LARGER THAN THE PIPE DIAMETER OF THE PENETRATING PIPE.

I. ALL OPENINGS OR DAMAGE TO EXISTING WALLS, CEILINGS, FLOORS AND STRUCTURAL MEMBERS FROM PENETRATIONS, REMOVALS, INSTALLATIONS OR OTHER ACTIONS OF THE CONTRACTOR SHALL BE PATCHED, REPAIRED AND PAINTED WITH NEW MATERIALS BY THE CONTRACTOR TO MATCH ADJACENT WORK, WHETHER SPECIFICALLY NOTED OR NOT. REPAIRS ARE AT THE CONTRACTOR'S EXPENSE.

J. DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILINGS SHALL NOT BE UTILIZED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.

K. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.

L. ALL ELEVATIONS ABOVE FINISHED FLOOR (AFF) INDICATED FOR STRUCTURAL MEMBERS AND CEILINGS ARE APPROXIMATE. VARIANCES OF +/- 1" CAN BE EXPECTED DUE TO SLOPING FLOORS AND STRUCTURAL MEMBERS.

M. THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13.

N. WATER SUPPLIES SHALL BE CALCULATED BY USING THE LATEST WATER FLOW INFORMATION AND ALLOWING FOR A 10% REDUCTION OF THE STATED PRESSURES OR 5 P.S.I., WHICHEVER IS GREATER, AS AN ALLOWANCE FOR SEASONAL VARIATIONS IN WATER SUPPLY.

O. EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH NFPA 13 EXCEPT AS MODIFIED HEREIN. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION. AUTOMATIC SPRINKLERS SHALL BE PERPENDICULAR TO CEILINGS. THE AUTOMATIC SPRINKLER COVER PLATES SHALL NOT BE FIELD PAINTED.

P. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES. SPRINKLERS INSTALLED IN PROXIMITY TO OBSTRUCTIONS SHALL BE LOCATED TO MINIMIZE OBSTRUCTION TO DISCHARGE IN ACCORDANCE WITH NFPA 13.

Q. NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.

R. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS AND SAMPLES OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AND SHALL INCLUDE ALL ITEMS REQUIRED BY NFPA 13.

S. ONLY LISTED AND APPROVED DEVICES AND MATERIALS AS SPECIFIED IN NFPA 13 SHALL BE INSTALLED THROUGHOUT THE SYSTEM. EACH COMPONENT OF THE SPRINKLER SYSTEM SHALL BE LISTED AS A PRODUCT BY THE MANUFACTURER UNDER THE APPROPRIATE CATEGORY FOR THE INTENDED USE BY UNDERWRITERS LABORATORIES INC. (UL) OR FACTORY MUTUAL (FM) AND SHALL BEAR THE "UL" OR "FM" LABEL, AS APPROPRIATE.

T. THE COMPONENTS OF HANGER ASSEMBLIES THAT DIRECTLY ATTACH TO THE PIPE OR TO THE BUILDING SHALL BE LISTED IN ACCORDANCE WITH NFPA 13.

U. SPRINKLER SYSTEM PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STATIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.

V. ONLY LISTED AND APPROVED NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM.

W. ENSURE SPRINKLER TEMPERATURE RATINGS ARE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR PROXIMITY TO HEAT GENERATING DEVICES.

X. CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE ADEQUATE DRAINAGE OF ALL PIPING IN ACCORDANCE WITH NFPA 13. ALL DRAINS DISCHARGE SHALL BE PIPED TO DESIGNATED AREAS. LOCATION OF ALL OUTSIDE DISCHARGE POINTS SHALL BE COORDINATED WITH THE OWNER.

Y. THE CONTRACTOR SHALL PROVIDE LOW POINT DRAINS AS REQUIRED BY NFPA 13. ALL LOW POINTS SHALL BE MARKED WITH SIGNAGE INDICATING "AUXILIARY DRAIN."

Z. PROVIDE DRAINS AND INSPECTOR'S TEST DISCHARGE TO DESIGNATED LOCATIONS.

AA. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH DRAIN VALVE OR LOW POINT DRAINS PROVIDED.

AB. UPON COMPLETION OF INSTALLATION, ALL PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NFPA 13 FOR TWO (2) HOURS AT A PRESSURE OF 200 PSI OR 50 PSI ABOVE THE MAXIMUM WORKING PRESSURE OF THE SYSTEM FOR NEW SYSTEM, OR USING HYDROSTATIC TEST AT THE SYSTEM WORKING PRESSURE FOR THE EXISTING SYSTEM TO ADD NEW SPRINKLER SYSTEM. ALL TESTS SHALL BE WITNESSED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

AC. REPLACE PIPING SYSTEM COMPONENTS THAT DO NOT PASS HYDROSTATIC TEST PROCEDURES AND RETEST TO DEMONSTRATE COMPLIANCE. REPEAT PROCEDURE UNTIL SATISFACTORY RESULTS ARE OBTAINED.

AD. FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 25. REPORT FLUSHING AND HYDROSTATIC TEST RESULTS PROMPTLY AND IN WRITING TO THE OWNER. CONTRACTOR SHALL PROVIDE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE SPRINKLER SYSTEMS.

AE. SPRINKLERS SHALL BE PROVIDED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO: ELECTRIC ROOMS AND CLOSETS, TEL/DATA CLOSETS, AND ENTRY VESTIBULES. STAIRWELLS, AT THE MAIN LANDING, UTILIZING UPRIGHT SPRINKLERS. BELOW DUCTS, GROUPS OF DUCTS OR OTHER OBSTRUCTIONS GREATER THAN 48" WIDE IN EXPOSED CONSTRUCTION AREAS, PER NFPA-13 REQUIREMENTS.

AF. PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS.

AG. ALL SPRINKLER SYSTEM VALVES SHALL BE OF THE INDICATING TYPE AND PROVIDED WITH ELECTRICAL SUPERVISORY (TAMPER) SWITCHES INTERCONNECTED WITH THE BUILDING FIRE ALARM SYSTEM. THE FLOW SWITCH SHALL ALSO BE INTERCONNECTED WITH THE FIRE ALARM SYSTEM TO ALARM WHEN FLOW IN THAT ZONE OCCURS.

AH. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL EXPOSED PIPING IN ACCORDANCE WITH OSHA STANDARDS AND NFPA 13.

AI. CONTRACTOR SHALL CONDUCT FIRE HYDRANT FLOW TESTS TO OBTAIN HYDRAULIC DATA NEEDED TO PREPARE DESIGN FOR HYDRAULICALLY CALCULATED SYSTEM.

AJ. CONTRACTOR SHALL PROVIDE HYDROSTATIC TEST, FINAL FLOW TEST UPON COMPLETION OF ALL SYSTEM WORK, AND BACKFLOW PREVENTER TEST REPORT PER NFPA 13 TO FIRE DEPARTMENT UPON COMPLETION OF WORK.

AK. SPRINKLERS SHALL BE LOCATED IN CENTER OF CEILING TILES, OR CENTER OF SHORT SIDE OF TILE AND AT QUARTER POINTS OF LONG SIDE OF TILE, WHERE APPLICABLE, AND SHALL BE LOCATED IN RELATIONSHIP TO LIGHTING FIXTURES AND HVAC DIFFUSERS TO MAINTAIN A SYMMETRICAL PATTERN FOR AN AESTHETICALLY PLEASING EFFECT. NO PIPING SHALL BE EXPOSED WITH THE EXCEPTION OF PIPING IN AREAS WITH NO CEILINGS.

AL. PROVIDE ADDITIONAL SPRINKLERS BEYOND CODE REQUIRED MINIMUMS TO PROVIDE SYMMETRICAL LAYOUTS.

AM. PROVIDE A TEST CONNECTION DOWNSTREAM OF THE BACKFLOW PREVENTION DEVICE. SIZE SHALL BE ADEQUATE TO PROVIDE FOR FLOW TEST SYSTEM DEMAND. PROVIDE SUPERVISED SWITCH ON ALL VALVES.

AN. NO SPRINKLER PIPING SHALL BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS / EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.

AO. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.

AP. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. AL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.

AQ. PROVIDE AND INSTALL GUARDS ON SPRINKLERS SUSCEPTIBLE TO MECHANICAL DAMAGE INCLUDING, BUT NOT LIMITED TO, SPRINKLERS IN MECHANICAL ROOMS AND SPRINKLERS INSTALLED LESS THAN 7' AFF.

AR. CONTRACTOR TO PROVIDE COPY OF NFPA 25 TO OWNER UPON COMPLETION OF PROJECT, AS REQUIRED PER NFPA 13.

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

GENERAL INFORMATION - FIRE PROTECTION

F001

Issue Date

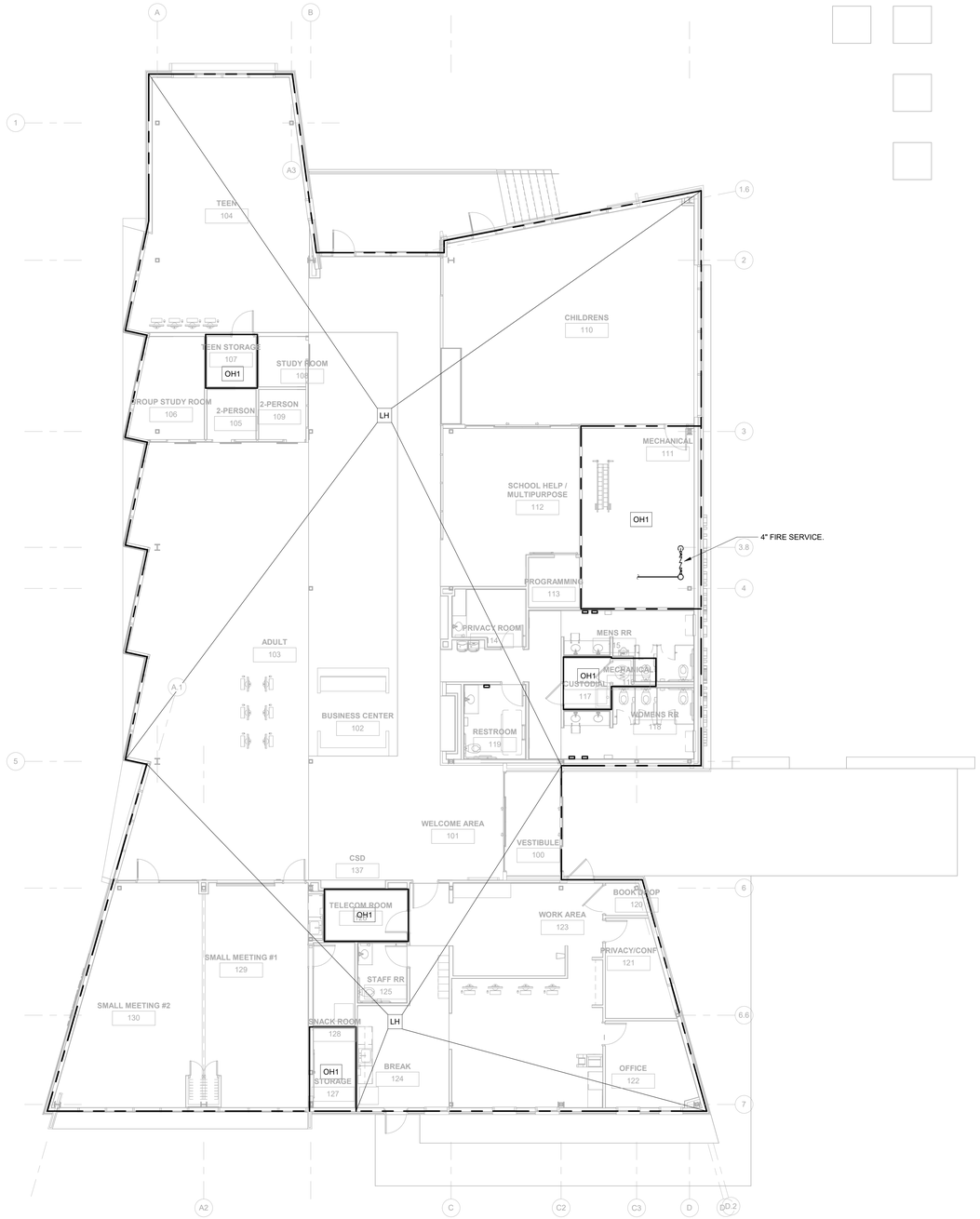
22150

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1. -



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

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Drawing Issue Dates

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9/28/2023

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11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

FIRST FLOOR PLAN - FIRE PROTECTION

F101

Issue Date

22150

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	COMPRESSED AIR (SHOP AIR)
ABV	ABOVE
AE	ANESTHESIA EVACUATION
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE
APPROX	APPROXIMATE
AR	ARGON
ARCH	ARCHITECT
AUTO	AUTOMATIC
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BT	BATHTUB
CAP	CAPACITY
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CS	CLINIC SINK
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DEPT	DEPARTMENT
DIA	DIAMETER
DI	DEIONIZED WATER
DN	DOWN
DW	DISTILLED WATER
DWG	DRAWING
E	EMERGENCY FIXTURE
EL	ELEVATION
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FIN FL EL	FINISHED FLOOR ELEVATION
FOD	FUEL OIL DISCHARGE
FOF	FUEL OIL FILL
FOG	FUEL OIL GAUGE LINE
FOO	FUEL OIL OVER FLOW LINE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
FT	FOOT OR FEET
GA	GAUGE
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HYDROGEN
HD	HEAD
HE	HELIUM
HGT	HEIGHT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

IN	INCHES
INV EL	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
L	LAVATORY
LB	POUNDS
LF	LINEAR FEET
LG	LENGTH
LN	LIQUID NITROGEN
LOX	LIQUID OXYGEN
MA	COMPRESSED AIR (MEDICAL GAS)
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
MV	VACUUM (MEDICAL GAS)
N20	NITROUS OXIDE
N	NITROGEN
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O	OXYGEN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE STEM AND YOKE VALVE
PD	PUMPED DISCHARGE
PLBG	PLUMBING
PPM	PARTS PER MILLION
PR	FUEL POLISH RETURN
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	FUEL POLISH SUPPLY
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RCP	RECIRCULATING PUMP
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RO	REVERSE OSMOSIS WATER
S	SINK
SEC	SECOND
SH	SHOWER
SHT	SHEET
SPEC	SPECIFICATION
SRD	SECONDARY ROOF DRAIN
STSTL	STAINLESS STEEL
STD	STANDARD
STR	STRAINER
SW	SOFT POTABLE WATER
TE	TOP ELEVATION
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TOP	TOP OF PIPE
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLT/VENT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WATER
WC	WATER CLOSET
WF	WASH FOUNTAIN

SYMBOLS LIST

PIPING

- EXISTING TO BE DEMOLISHED — (D)
- EXISTING ABANDONED — (A)
- DOMESTIC HOT WATER — HW
- DOMESTIC COLD WATER — CW
- DOMESTIC HOT WATER RETURN — HWR
- SANITARY — SAN
- VENT — V
- STORM — ST
- SECONDARY STORM — SS
- NATURAL GAS — G

PIPING (FITTINGS, VALVES, AND MISCELLANEOUS)

- DROP
- RISE
- TEE
- CAP
- FLOW ARROW
- PUMP
- GLOBE VALVE
- PLUG VALVE
- SOLENOID VALVE
- GAS PRESSURE REGULATOR
- PRESSURE REDUCING VALVE
- OUTSIDE STEM & YOKE VALVE
- REDUCED PRESSURE BACKFLOW PREVENTER
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- BALANCE VALVE
- STRAINER
- UNION
- TEMPERATURE & PRESSURE RELIEF VALVE
- METER
- PIPE SLEEVE
- WATER HAMMER ARRESTOR
- PRESSURE/TEMPERATURE TEST PLUG
- AQUASTAT
- WALL HYDRANT OR HOSE BIBB
- CLEANOUT
- CLEANOUT AT FLOOR OR AT GRADE
- FLOOR OR AREA DRAIN
- ROOF DRAIN
- THERMOMETER
- PRESSURE GAUGE WITH STOPCOCK

NOTATIONS

- CONNECT TO EXISTING
- DOMESTIC WATER RISER — 1 / P-XXX
- SANITARY STACK — A / P-XXX

GENERAL NOTES:

1. PROVIDE NEW DOMESTIC WATER, SANITARY WASTE, STORM DRAINAGE, NATURAL GAS FOR THIS BUILDING. PROVIDE ALL NECESSARY COMPONENTS FOR FULLY OPERATIONAL SYSTEM. INSTALL SYSTEMS IN ACCORDANCE WITH STATE REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION.COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS, FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT WITH OTHER TRADES.
2. ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH FIRE STOP MATERIAL BY TRADE CONTRACTORS.
3. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.
4. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.
5. ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.
6. ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.
7. A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE RED LINED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (PDF) FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.
8. ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH-PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATING OF THE PENETRATED BARRIER.
9. CORE DRILL PENETRATIONS IN CONCRETE FLOORS OR WALLS 1-2 INCHES LARGER THAN THE PIPE DIAMETER OF THE PENETRATING PIPE.
10. DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILINGS SHALL NOT BE USED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.
11. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.
12. EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH CURRENT PLUMBING CODE. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES.
14. NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.
15. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
16. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
17. PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STANCHIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.
18. PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS.
19. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.
20. PIPING SHALL NOT BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS / EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.
21. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.
22. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. AL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

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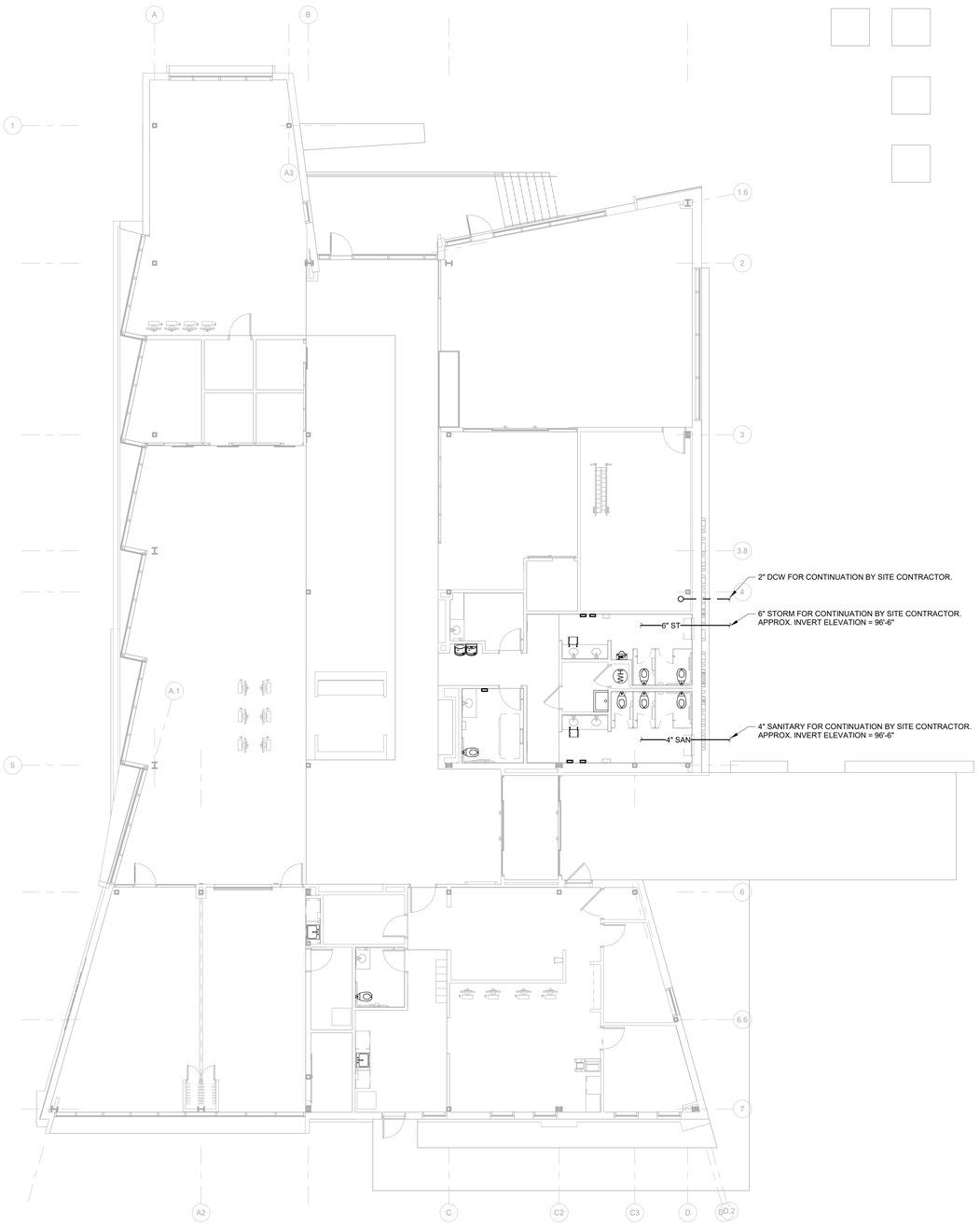
GENERAL INFORMATION - PLUMBING

P001

Issue Date

22150



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

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Design Development Submittal
11/2/2023

Revision Schedule

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UNDERFLOOR PLAN - PLUMBING

P100

Issue Date

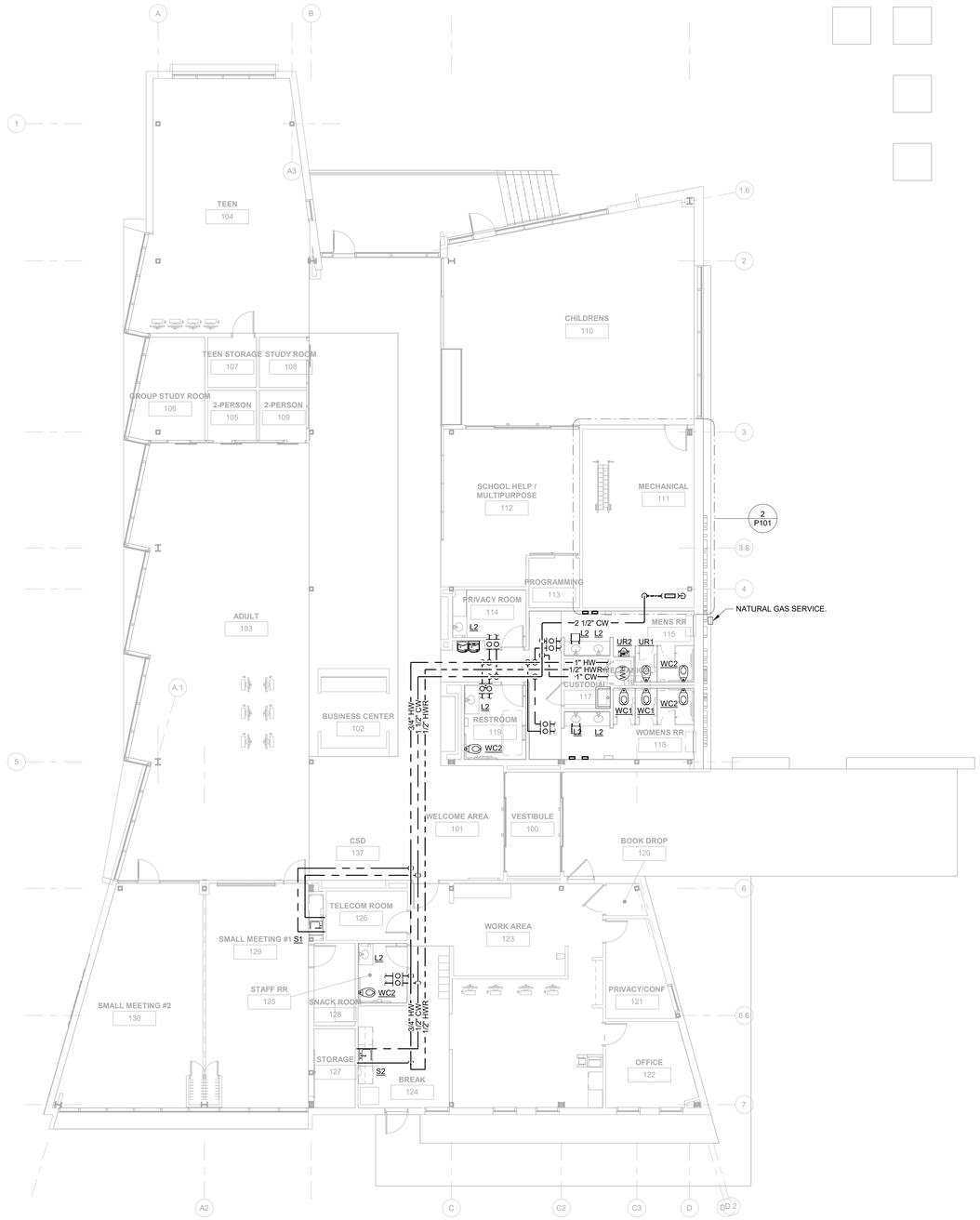
22150

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1. -



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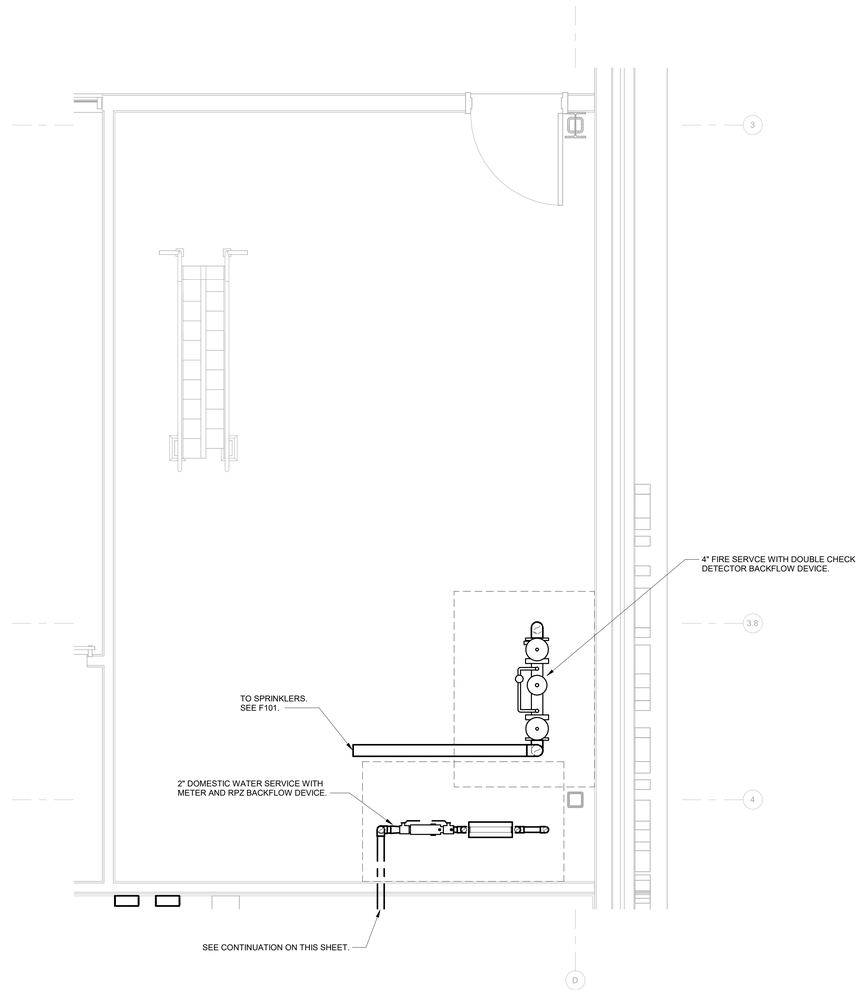
1 FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"



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2 ENLARGED MECHANICAL ROOM - PLUMBING
1/2" = 1'-0"

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Drawing Issue Dates

Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion Franklin Branch

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FIRST FLOOR PLAN - PLUMBING

P101

Issue Date

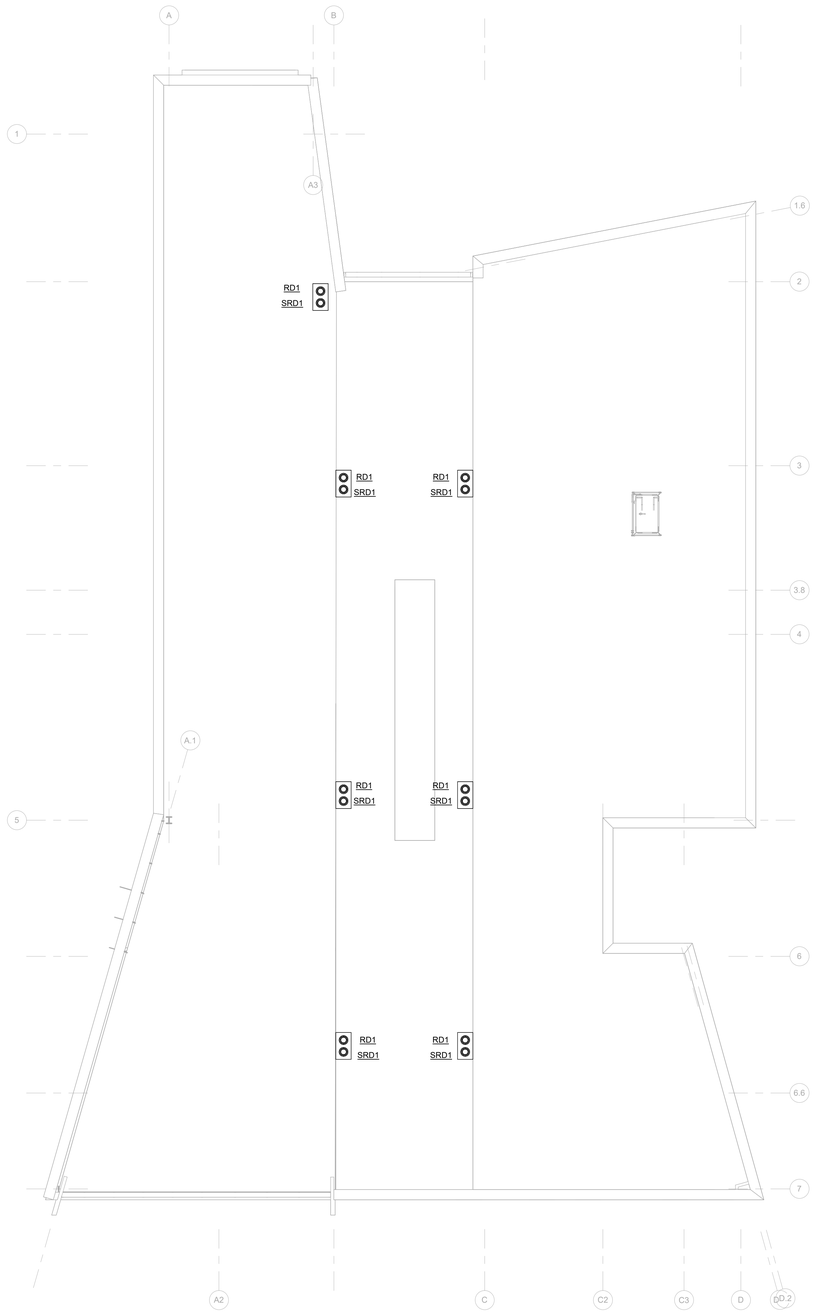
22150

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1. -



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

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ROOF PLAN - PLUMBING

P102

Issue Date

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MECHANICAL ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

ABBREVIATION	DESCRIPTION
(A)	EXISTING TO BE ABANDONED
(E)	EXISTING TO REMAIN
(F)	FUTURE
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
EXH	EXHAUST
GTC	GENERAL TRADES CONTRACTOR
CL	CENTER LINE
CO	CLEAN OUT
RA	RETURN AIR
DB	DRY BULB
SA	SUPPLY AIR
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
TCC	TOTAL COOLING CAPACITY
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
TCP	TEMPERATURE CONTROL PANEL
FPI	FINS PER INCH
ID	INNER DIAMETER
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MFR	MANUFACTURER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
REL	RELIEF AIR
EA	EXHAUST AIR
OD	OUTSIDE DIAMETER
SCC	SENSIBLE COOLING CAPACITY
DIA	DIAMETER
(D)	EXISTING TO BE DEMOLISHED
(R)	EXISTING TO BE RELOCATED
AAV	AUTOMATIC AIR VENT
A/E	ARCHITECT/ENGINEER

MECHANICAL SHEET INDEX

MECHANICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS MAY BE USED.

LINE STYLES

- NEW WORK (VISIBLE)
- NEW WORK (HIDDEN)
- EXISTING WORK (VISIBLE)
- EXISTING WORK (HIDDEN)
- EXISTING TO BE DEMOLISHED
- FUTURE

PIPING SYSTEMS

- HEATING WATER SUPPLY — HWS
- HEATING WATER RETURN — HWR
- CHILLED WATER SUPPLY — CWS
- CHILLED WATER RETURN — CWR
- CONDENSER WATER SUPPLY — CS
- CONDENSER WATER RETURN — CR
- COOLING COIL CONDENSATE — C
- REFRIGERANT SUCTION — RS
- REFRIGERANT LIQUID — RL
- HIGH PRESSURE STEAM — HPS(#)
- HIGH PRESSURE STEAM CONDENSATE — HPC
- LOW PRESSURE STEAM — LPS(#)
- LOW PRESSURE STEAM CONDENSATE — LPC
- PUMPED STEAM CONDENSATE — PSC

PIPING

- DROP
- RISE
- TEE
- CAP
- REDUCER
- FLOW ARROW

FITTINGS, VALVES, AND MISCELLANEOUS

- PUMP
- 2-WAY CONTROL VALVE — M
- 3-WAY CONTROL VALVE — M
- 2-WAY PRESSURE INDEPENDENT CONTROL AND BALANCE VALVE — M PICBV
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE
- COMBINATION BALANCE/SHUT-OFF VALVE
- TRIPLE DUTY VALVE
- GATE VALVE
- PLUG VALVE
- GLOBE VALVE
- PRESSURE RELIEF VALVE
- PRESSURE REDUCING VALVE
- STRAINER
- DRAIN VALVE WITH HOSE END ADAPTER
- UNION
- AUTOMATIC AIR VENT — AAV
- MANUAL AIR VENT — MAV
- THERMOMETER
- PRESSURE GAUGE (WITH STOPCOCK)
- PRESSURE/TEMPERATURE TEST PLUG
- AUTOMATIC BALANCE VALVE — A
- MANUAL BALANCE VALVE — M
- FLOW SENSOR — F
- PRESSURE SENSOR — P
- TEMPERATURE SENSOR — T
- STEAM TRAP — T
- METER — M
- FLEXIBLE CONNECTION
- HEAT TRACED PIPE
- PIPE ANCHOR
- PIPE GUIDE
- EXPANSION JOINT
- GENERAL SERVICE VALVE

DUCTWORK

- SUPPLY/O.A. DUCT RISE (SINGLE LINE) — OR
- SUPPLY/O.A. DUCT RISE (DOUBLE LINE) — OR
- SUPPLY/O.A. DUCT DROP (SINGLE LINE) — OR
- SUPPLY/O.A. DUCT DROP (DOUBLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT RISE (SINGLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT RISE (DOUBLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT DROP (SINGLE LINE) — OR
- RETURN/EXHAUST/RELIEF DUCT DROP (DOUBLE LINE) — OR
- FLAT OVAL (DROP OR RISE) — OR
- DOUBLE LINE FLEX DUCT
- SINGLE LINE FLEX DUCT
- ACCESS DOOR — OR
- 90 DEGREE FITTING (WITH TURNING VANES)
- DIFFUSER — WITHOUT FLEX / OR / WITH FLEX
- SIDEWALL GRILLE/REGISTER/DIFFUSER — WITHOUT FLEX / OR / WITH FLEX
- GRILLE/REGISTER
- VOLUME DAMPER
- FIRE DAMPER WITH ACCESS DOOR — FD
- SMOKE DAMPER WITH ACCESS DOOR — SD
- COMB. FIRE/SMOKE DAMPER WITH ACCESS DOOR — CD
- BACKDRAFT DAMPER — BD
- MOTORIZED DAMPER WITH ACCESS DOOR — MD
- AIR FLOW ARROW
- THERMOSTAT (MOUNT 48" AFF TO CENTER UNO) — T
- HUMIDSTAT (MOUNT (48" AFF TO CENTER UNO) — H
- MISCELLANEOUS SENSOR — S
- CO SENSOR — CO
- CO2 SENSOR — CO2
- CONNECT TO EXISTING
- TERMINAL BOX — WITHOUT REHEAT / OR / WITH REHEAT

GENERAL MECHANICAL NOTES

1. THESE NOTES APPLY TO ALL DIVISION 23 DRAWINGS.
2. ALL HVAC WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES.
3. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, FEES, AND PERMITS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COMPLY WITH ALL GENERAL CONDITIONS LISTED ON THE ARCHITECTURAL DRAWINGS.
4. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIER'S REQUIREMENTS, AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DIFFERENCE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONALITY OF THE HVAC SYSTEM INCLUDING ELECTRICAL AND CONTROL ITEMS ASSOCIATED WITH THE MECHANICAL EQUIPMENT.
6. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF MECHANICAL, PLUMBING, AND EQUIPMENT. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, SIZE AND LOCATION OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE.
7. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO SUBMITTING BIDS. PRIOR TO BID CONTRACTOR SHALL ADVISE ENGINEER IN WRITING OF ANY CONDITIONS THAT SWAYS FROM CONTRACT DOCUMENTS.
8. IN THE EVENT OF A CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS THE CONTRACTOR SHALL ADVISE ENGINEER IN WRITING PRIOR TO PROCEEDING WITH WORK. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH RESTOCKING, RELOCATING OF EQUIPMENT, SYSTEMS, PIPING, ETC. FROM FAILURE TO PROPERLY COORDINATE INSTALLATION AND NOT ADVISING IN WRITING OF CONFLICT PRIOR TO PURCHASE AND/OR INSTALLATION.
9. CONTRACTOR IS TO MAINTAIN RECORDED "AS-BUILT" INFORMATION ON ALL NEW SERVICES BEING INSTALLED. "AS-BUILT" DRAWINGS SHALL BE MAINTAINED IN THE FIELD. THE "AS-BUILTS" SHALL CAPTURE INFORMATION ON A CLEARLY MARKED IN COLOR PRINTED COPY OF CONTRACT DRAWING. RECORDED INFORMATION SHALL INCLUDE ROUTING AND INVERT ELEVATIONS. AT THE COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE ELECTRONIC (PDF FORMAT) OF RECORDED "AS-BUILT" INFORMATION TO THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR START-UP OF ALL EQUIPMENT AND SYSTEMS INSTALLED, MODIFIED, OR REVISED BY THIS WORK PER MANUFACTURER'S REQUIREMENTS AND/OR CONTRACT DOCUMENTS.
11. AT THE END OF CONSTRUCTION, CONTRACTOR SHALL PERFORM A COMPLETE AIR SYSTEM FLOW BALANCE FOR ALL EQUIPMENT AND SYSTEMS SHOWN, SCHEDULED OR OTHERWISE IDENTIFIED. CONTRACTOR SHALL INCLUDE TIME IN CONSTRUCTION SCHEDULE TO FULLY TEST AND BALANCE SYSTEMS PRIOR TO OWNER OCCUPANCY TO ASSURE ADJUSTMENTS CAN BE MADE TO MITIGATE COMFORT ISSUES FOR OCCUPANTS POST CONSTRUCTION.
12. UPON COMPLETION OF HVAC SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INSTRUCT THE OWNER IN THE COMPLETE OPERATION OF THE SYSTEMS.
13. PRIOR TO AND DURING CONSTRUCTION, CONTRACTOR SHALL FULLY PROTECT THE AIR HANDLING AND DUCTWORK SYSTEMS. CONTRACTOR SHALL PROTECT EACH RETURN AIR GRILLE OPENING AND RETURN AIR DUCT WITH MINIMUM MERV 8 FILTER MEDIA. AIR HANDLING EQUIPMENT AND DUCTS COVERED WITH DRYWALL/CONSTRUCTION DUST SHALL BE CLEANED AT CONTRACTOR EXPENSE.
14. THE CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, VALVES, AND ACCESS LOCATIONS HAVE CLEARANCES IN ACCORDANCE TO THE DRAWINGS AND THE MANUFACTURER'S REQUIREMENTS FOR FULL ACCESSIBILITY AND OPERATION OF MECHANICAL SYSTEMS.
15. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS, IN WALLS OR CEILING, OR ACCESS DOORS, IN DUCTWORK, AS INDICATED OR REQUIRED FOR ACCESS TO CONCEALED MECHANICAL EQUIPMENT OR DEVICES.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT EXISTING AND/OR NEW SURFACES, AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK.
17. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM 4 INCH CONCRETE HOUSEKEEPING PAD SIZED TO SUIT EQUIPMENT.
18. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS FOR EQUIPMENT WITH OTHER TRADES. COORDINATION INCLUDES ALLOWING PROPER CLEARANCE FOR ELECTRICAL DEVICES FURNISHED WITH EQUIPMENT INCLUDING CONTROLS, DISCONNECTS, VAV POWER/CONTROL PANELS, VFD, ETC.
19. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DEVICES, INCLUDING CEILING MOUNTED FANS.
20. COORDINATE CLOSELY WITH OTHER TRADES IN LOCATING AND INSTALLING ALL SYSTEMS ABOVE SUSPENDED CEILINGS. SPECIFICALLY, COORDINATE LAYOUT WITH ELECTRICAL AND PLUMBING CONTRACTORS TO ALLOW SUFFICIENT ROOM FOR RECESSED LIGHT FIXTURES, FIRE SPRINKLER, AND PLUMBING VENTS WHERE APPLICABLE.
21. ANNULAR SPACE OF PIPE, CONDUIT, DUCT, AND OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THRU 0-HOUR RATED FLOORS SHALL ALSO BE FIRESTOPPED TO RETARD PASSAGE OF FIRE AND SMOKE. REFER TO FIRESTOPPING SPECIFICATION. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION, LAYOUT, AND FIRE RATINGS OF FLOORS, WALLS, PARTITIONS, AND OTHER BUILDING ELEMENTS.
22. ALL EXPOSED WIRING SHALL BE RUN IN CONDUIT, EXCEPT WHEN RUNNING THOUGH FINISHED SPACES THAT HAVE CEILING "CLOUDS".
23. THE CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, FINISHING, AND PENETRATIONS REQUIRED BY THE INSTALLATIONS. ALL FLOOR PENETRATIONS SHALL BE PATCHED AND SEALED TO BE WATERTIGHT. PROVIDE CHROME ESCUTCHEON FOR EXPOSED PIPING PENETRATIONS. CUTTING OF BUILDING CONSTRUCTION MATERIALS SHALL CONFORM TO THE CHARACTERISTICS OF THE PARTICULAR MATERIAL INVOLVED AND SHALL NOT CREATE ANY STRUCTURAL WEAKNESS OR UNSIGHTLY APPEARANCE. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING, EXCEPT WHERE REFINISHING OF THAT SURFACE IS INCLUDED UNDER THE GENERAL TRADES CONTRACT.
24. PROVIDE ROOM TEMPERATURE THERMOSTATS FOR ALL UNITS. PREFERRED LOCATIONS ARE SHOWN ON THE PLANS. COORDINATE LOCATION OF THERMOSTATS AND OTHER WALL MOUNTED DEVICES WITH FURNITURE, WALL FRAMING, ELECTRICAL OUTLETS AND DEVICES, AND TECHNOLOGY OUTLETS AND DEVICES PRIOR TO ROUGH-IN. PROVIDE THERMOSTATS WITH ROOM TEMPERATURE INDICATOR AND WITH SET POINT ADJUSTMENT.
25. ALL ROOF AND DECK PENETRATIONS SHALL BE COMPLETED BY THE GENERAL TRADES CONTRACTOR. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE SCOPE OF WORK WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
26. COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH AREA SMOKE DETECTORS, LIGHTS, AND ELECTRICAL DEVICES. AIR DEVICES SHALL NOT BE CLOSER THAN 3 FEET FROM AN AREA SMOKE DETECTOR.
27. BRANCH DUCT TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE. FLEXIBLE DUCT CONNECTION TO THE DIFFUSER SHALL BE NO MORE THAN 5 FEET IN LENGTH FLEXIBLE DUCT SHALL NOT BE USED FOR ELBOW TO DIFFUSER WITH A FLEXFLOW SUPPORT ELBOW.
28. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL EXPOSED DUCTWORK PAINT READY.
29. PROVIDE VOLUME DAMPERS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY THE SPECIFICATIONS, AND SHOWN IN TYPICAL DETAILS. LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS. A VOLUME DAMPER SHALL BE PROVIDED FOR EACH DIFFUSER AND GRILLE IN ORDER TO BALANCE EACH AIR DEVICE INDEPENDENTLY PER SPECIFIED CFM STATED ON DRAWINGS.
30. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR, UNLESS NOTED OTHERWISE.
31. PROVIDE STRAIGHT INLET AND OUTLET DUCTS PER THE LENGTH THE EQUIPMENT MANUFACTURER RECOMMENDS. FAN INLETS SHALL BE MINIMUM 3 DUCT DIAMETERS OF STRAIGHT DUCT. INSTALL AND SUPPORT MECHANICAL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLEXIBLE CONNECTIONS AND VIBRATION ISOLATION FOR VIBRATING EQUIPMENT UNLESS NOTED OTHERWISE.
32. INSTALL AIRFOIL TURNING VANES IN ALL 90 DEGREE ELBOWS EXCEPT TRANSFER DUCTS AND OPEN RETURN AIR BOOTS.
33. CONTRACTOR SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION AND STANDARDS" AND OTHER APPLICABLE STANDARDS INCLUDED IN THE SPECIFICATIONS FOR THE CONSTRUCTION AND SUPPORT OF DUCTWORK, UNLESS OTHERWISE NOTED
34. ALL DUCTS AND PIPES SHALL BE RUN ABOVE CEILING. WHERE NO CEILINGS ARE INSTALLED, INSTALL AS HIGH AS POSSIBLE TO STRUCTURE UNLESS NOTED OTHERWISE. IN GENERAL, KEEP DUCT AND PIPING MAINS NEXT TO UNDERSIDE OF STRUCTURE.
35. CHANGES IN HVAC DUCT AND PIPE ELEVATIONS SHALL BE PROVIDED AND BE COORDINATED WITH OTHER SYSTEMS INCLUDING, BUT NOT LIMITED, TO PLUMBING, FIRE PROTECTION, ELECTRICAL, AND BUILDING ELEMENTS SYSTEMS. OFFSET DUCTS INTO JOIST SPACE FOR WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER CONTRACTORS.
36. DUCTWORK AND PIPING ON DRAWINGS DOES NOT INDICATE ALL REQUIRED OFFSETS AND FITTINGS. INCLUDE THESE OFFSETS AND FITTINGS TO COORDINATE WITH OTHER CONTRACTORS.
37. SECURELY FASTEN ALL PIPING AND DUCTWORK WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDES, ANCHORS, AND SWAY BRACES TO MAINTAIN PIPE AND DUCTWORK ALIGNMENT, TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN ON PIPING AND DUCTWORK DUE TO MOVEMENT UNDER OPERATING CONDITIONS. SUPPORTS FOR ALL PIPING AND DUCTWORK SHALL BE IN ACCORDANCE WITH LATEST ANSI AND SMACNA STANDARDS.
38. CONTRACTOR SHALL PROTECT THE PIPING AND DUCTWORK TO PREVENT ENTRY OF DIRT AND ANY OTHER FOREIGN MATERIAL DURING THE INSTALLATION.
39. COLOR CODE AND LABEL PIPING AND DUCTWORK IN ACCORDANCE WITH SPECIFICATIONS.
40. PROVIDE FLEXIBLE CONNECTIONS FOR ALL VIBRATING EQUIPMENT.
41. UNLESS NOTED OTHERWISE, MINIMUM PIPE SIZE SHALL BE 3/4 INCH. PIPING, VALVES, AND OTHER PIPING SPECIALTIES ROUTED TO TERMINAL UNITS AND FOR BRANCH LINES SHALL BE SAME SIZE INDICATED ON UNIT SCHEDULE UNLESS NOTED OTHERWISE.
42. INSTALL ALL PIPING IN LOCATIONS AND ELEVATIONS SUCH THAT COILS, TUBES, AND FILTERS CAN BE REMOVED AND REPLACED WITHOUT MAJOR PIPING REMOVAL. LOCATE VALVES IN APPROPRIATE PLACES TO ACCOMMODATE MAINTENANCE. MAINTAIN REQUIRED SERVICE ACCESS SPACE AT EQUIPMENT.
43. INSTALL TWO-WAY CONTROL VALVES ON ALL EQUIPMENT UNLESS NOTED OTHERWISE.
44. PROVIDE SHUT-OFF VALVES TO ALL SUPPLY PIPING BRANCH TAKE-OFFS FROM THE MAINS. PROVIDE COMBINATION BALANCE/SHUT-OFF VALVES TO ALL RETURN BRANCHES TO MAINS. LOCATE VALVES IN ACCESSIBLE LOCATIONS.
45. AIR VENTS SHALL BE INSTALLED ON ALL HIGH POINTS AND AS INDICATED IN DETAILS. PROVIDE BALL VALVE AND THREADED CONNECTION FOR VENTING.
46. FLOOR PLANS DO NOT INDICATE ALL REQUIRED VALVES, DEVICES, AND APPURTENANCES. REFER TO STANDARD DETAILS, FLUID FLOW DIAGRAMS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
47. ALL SUPPLY AND RETURN PIPING SHALL BE PIPED TO AVOID "BULL HEAD TEES" WHERE FLOWS COLLIDE.
48. VALVES MAY BE SHOWN IN THE HORIZONTAL FOR CLARITY. CONTRACTOR SHALL INSTALL ALL VALVES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND TO AFFORD FULL OPERABILITY.
49. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING THE SYSTEM(S) AS REQUIRED TO COMPLETE WORK. ANY ADDITIONAL ISOLATION VALVES OR DRAIN VALVES REQUIRED TO DO SO SHALL BE CONSIDERED PART OF THIS CONTRACT.
50. PIPE SLEEVES THRU FLOORS SHALL BE SEPARATED BY A MINIMUM OF 3" UNLESS APPROVED BY THE PROJECT STRUCTURAL ENGINEER. SUBMIT SLEEVE COORDINATION DRAWINGS FOR REVIEW AND APPROVAL. EXTEND SLEEVES A MINIMUM OF 2" AFF AND CAULK PERIMETER.
51. ARRANGE ALL PIPING WITHIN STRUCTURES NEATLY ALONG WALLS AND/OR IN NEAT, HORIZONTAL GROUPS AND MAINTAIN REQUIRED SLOPES.
52. WHERE POSSIBLE, INSTALL VALVES ACCESSIBLE FROM FLOOR LEVEL.
53. PROVIDE A HANGER NOT MORE THAN 12 INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A PIPE RUN IN BOTH HORIZONTAL AND VERTICAL PLANE.
54. CONNECTION BETWEEN DISSIMILAR MATERIAL PIPES SHALL BE CONNECTED VIA DIELECTRIC NIPPLES OR FLANGES WITH DIELECTRIC GASKETS TO COUNTERACT ELECTROLYSIS.
55. ALL WORK, EQUIPMENT AND MATERIALS SHALL BE PROTECTED AT ALL TIMES. ALL DUCT AND PIPE OPENING SHALL BE PROPERLY CAPPED OR PLUGGED DURING INSTALLATION.

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1405 Dublin Rd, Columbus OH 43215

Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule

No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

GENERAL INFORMATION - MECHANICAL

M001

Issue Date

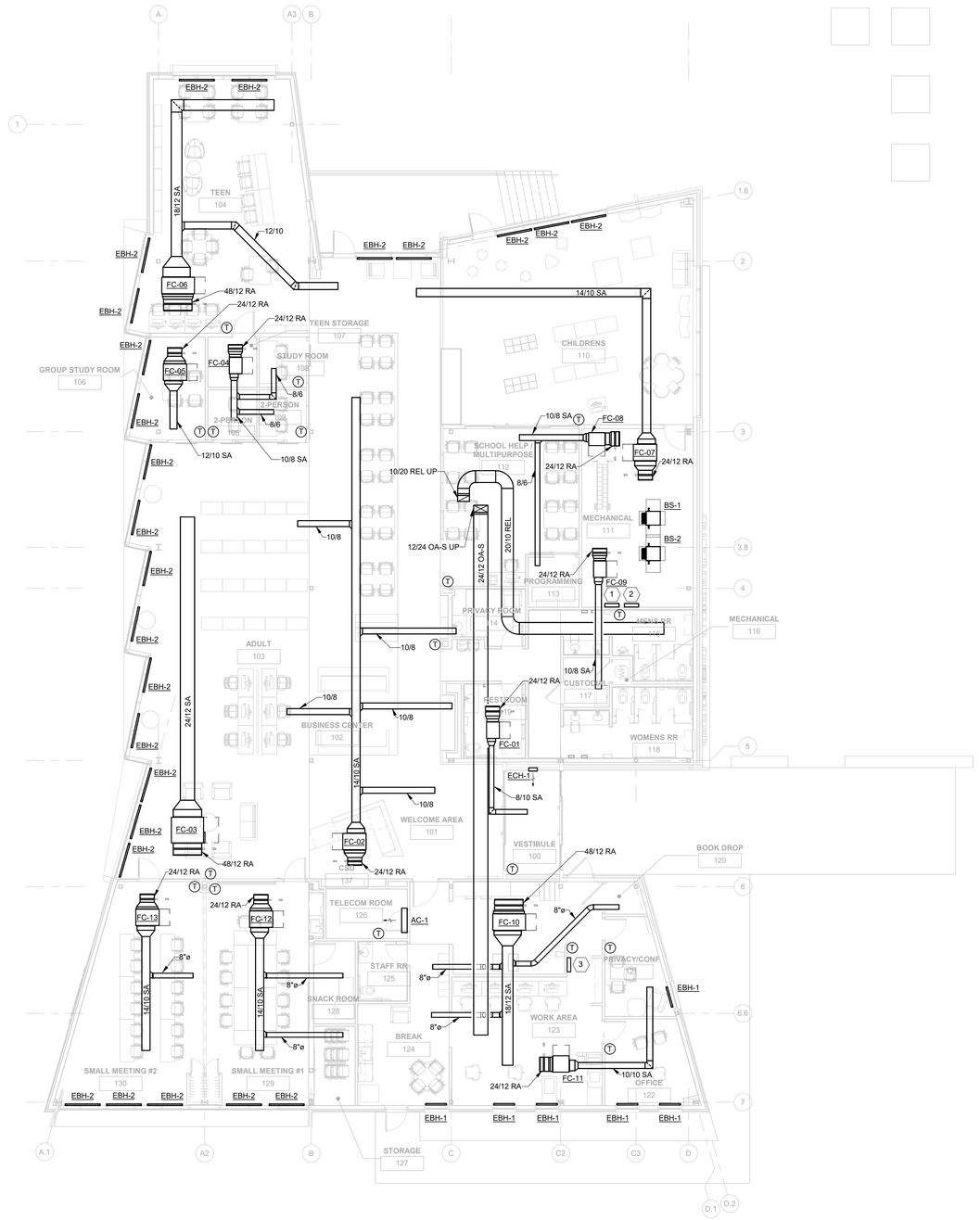
22150

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1 CENTRAL VRF TOUCH SCREEN CONTROLLER. PROVIDE 120V POWER.
2 BAS/DDC CONTROL PANEL. PROVIDE 120V POWER.
3 HVAC EMERGENCY SHUTOFF BUTTON. BUTTON SHALL SHUTDOWN ALL VRF AND DOAS UNITS THROUGH THE BUILDING AUTOMATION SYSTEM. PROVIDE NON-LOCKABLE PLASTIC COVER.



N

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

SCHOOLEY CALDWELL
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Landscape Architect
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462 Ludlow St, Columbus OH 43215

Structural Engineer
SMBH
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MEP Engineer
Advanced Engineering Consultants
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Drawing Issue Dates

Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between Faber Ave & Evergreen Rd
Columbus, Ohio 43207

NOT FOR CONSTRUCTION

FIRST FLOOR PLAN - MECHANICAL DUCTWORK

M101

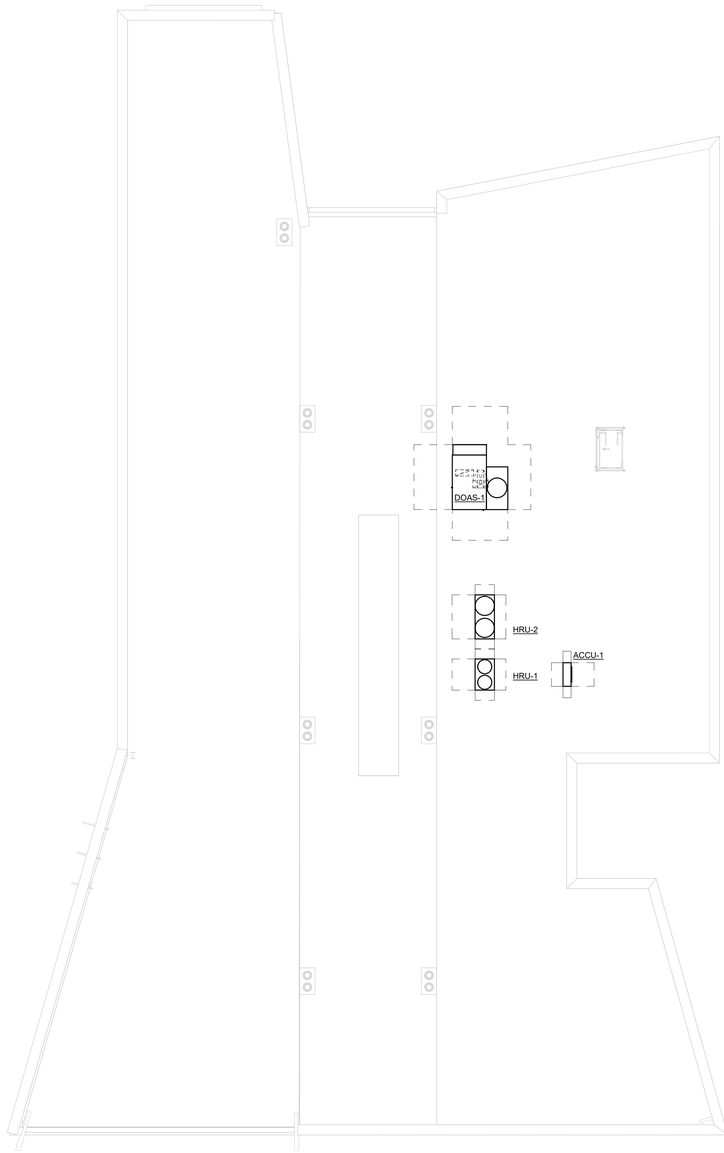
Issue Date

22150

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES



N

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

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
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Columbus, Ohio 43207

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ROOF PLAN -
MECHANICAL

M102

Issue Date

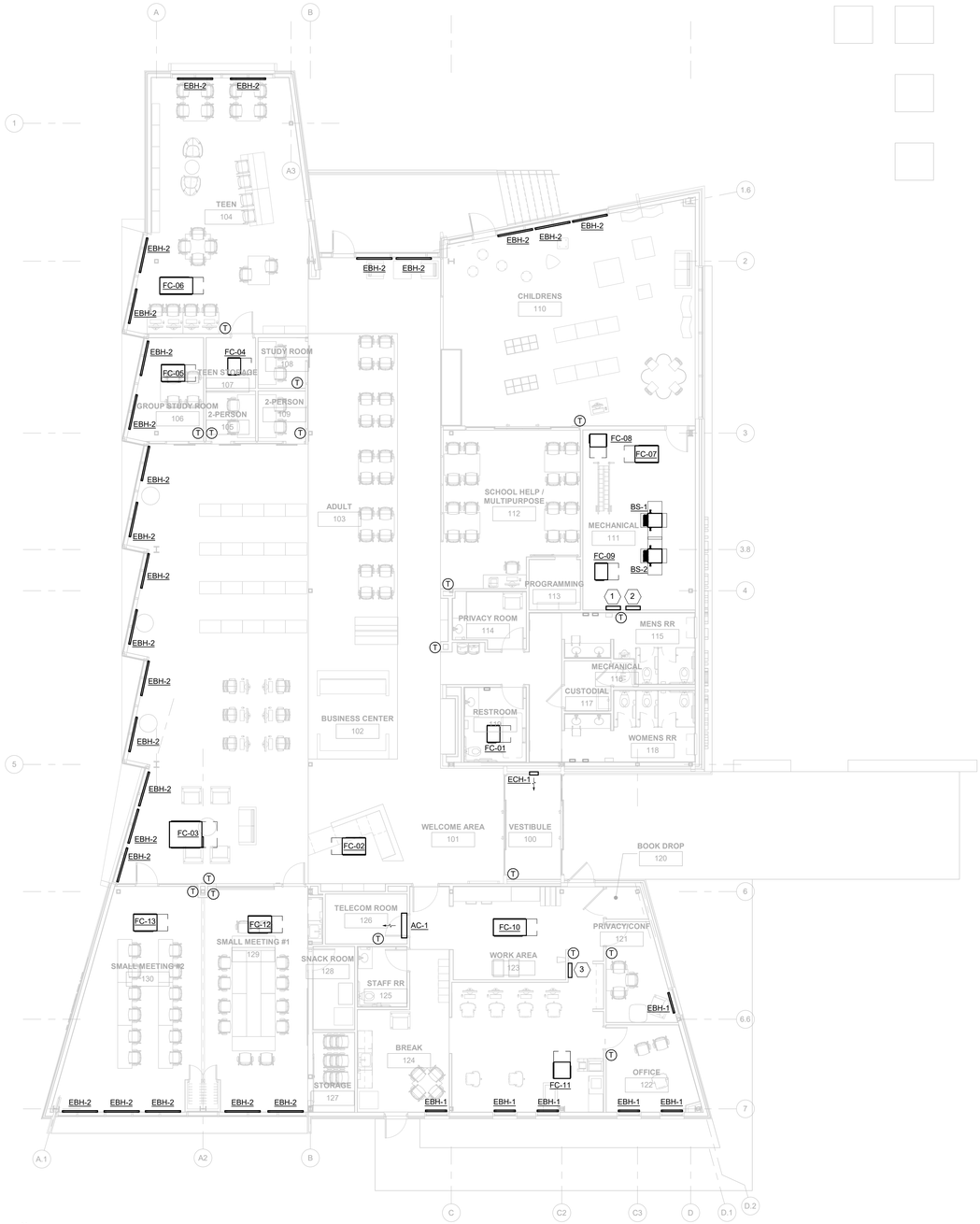
22150

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1 CENTRAL VRF TOUCH SCREEN CONTROLLER. PROVIDE 120V POWER.
2 BAS/DDC CONTROL PANEL. PROVIDE 120V POWER.
3 HVAC EMERGENCY SHUTOFF BUTTON. BUTTON SHALL SHUTDOWN ALL VRF AND DOAS UNITS THROUGH THE BUILDING AUTOMATION SYSTEM. PROVIDE NON-LOCKABLE PLASTIC COVER.



N

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

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Drawing Issue Dates

Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion Franklin Branch

Lockbourne Road, between Faber Ave & Evergreen Rd
Columbus, Ohio 43207

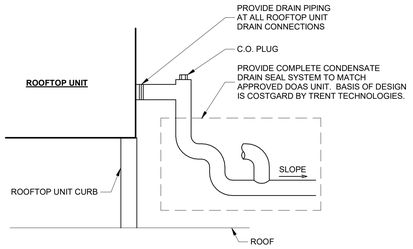
NOT FOR CONSTRUCTION

FIRST FLOOR PLAN - MECHANICAL PIPING

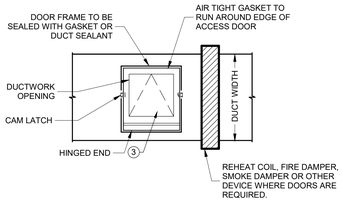
M201

Issue Date

22150



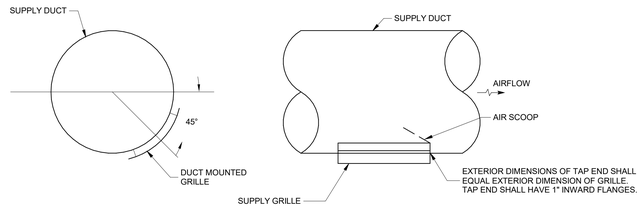
1 DETAIL ROOFTOP UNIT CONDENSATE DRAIN PIPING
NTS



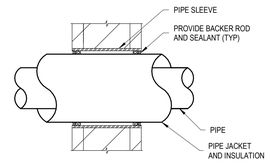
ACCESS DOOR SIZE SCHEDULE	
DUCT WIDTH	ACCESS DOOR SIZE
6" TO 10"	6" x 6" MINIMUM
10" TO 12"	8" x 8" MINIMUM
12" TO 21"	12" x 12" MINIMUM (1)
21" & ABOVE	18" x 18" MINIMUM (2)

(1) ACCESS DOORS TO 16"x16" WHERE DUCT SIZE AND SPACES ALLOWS
(2) FOUR CAM LATCHES ARE REQUIRED
(3) DOORS TO BE INSTALLED ON SIDE OR BOTTOM OF DUCT WITH BEST ACCESS

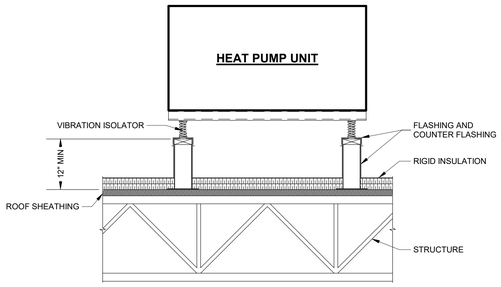
2 DETAIL DUCT ACCESS DOOR DETAIL
NTS



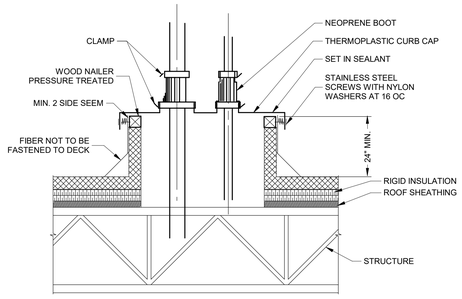
3 DETAIL DUCT MOUNTED GRILLE DETAIL
NTS



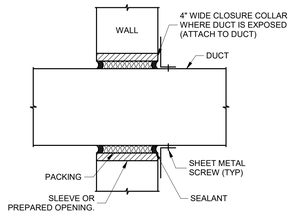
4 DETAIL PIPING WALL PENETRATION DETAIL
NTS



5 DETAIL EQUIPMENT ROOF RAIL DETAIL
NTS



6 DETAIL REFRIGERANT PIPING ROOF PENETRATION DETAIL
NTS

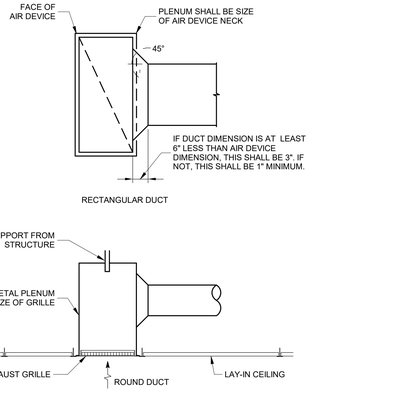


NOTES:

A. DETAIL IS NOT APPLICABLE WHERE FIRE DAMPER, REGISTER, OR DIFFUSER IS PROVIDED.

B. EXTERNALLY INSULATED DUCT SHALL BE CAULKED TO PROVIDE A COMPLETE SEAL BETWEEN THE INSULATION AND CLOSURE COLLAR.

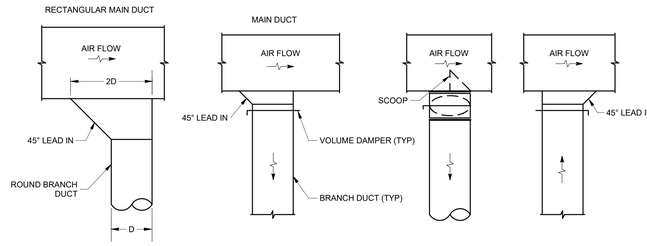
7 DETAIL TYPICAL DUCT PENETRATION THRU WALL DETAIL
NTS



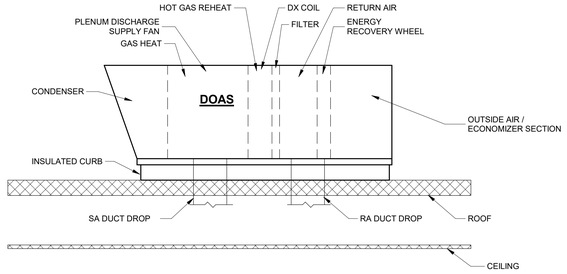
NOTES:

THIS CONNECTION DETAIL APPLIES WHEN DUCT WIDTH IS LESS THAN 70% OF THE AIR DEVICE WIDTH. CONNECTION MAY ALSO BE ON THE SHORT END. SAME REQUIREMENTS APPLY. SEE PLANS FOR SIZES.

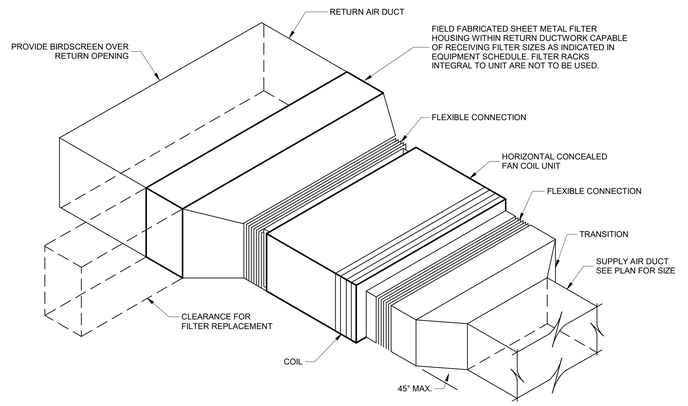
8 DETAIL RETURN/EXHAUST GRILLE CONNECTION DETAIL
NTS



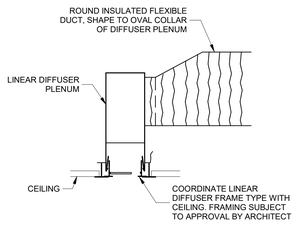
9 DETAIL TYPICAL DUCT CONNECTIONS (LOW VELOCITY SUPPLY) DETAIL
NTS



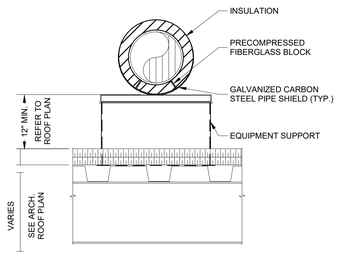
10 DETAIL ROOFTOP DOAS UNIT DETAIL
NTS



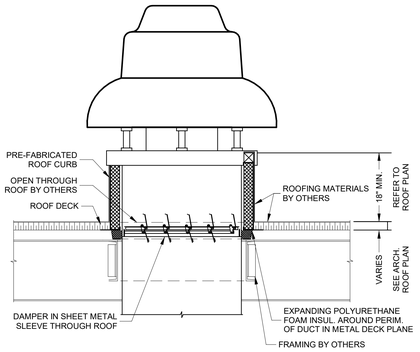
11 DETAIL FAN COIL INSTALLATION DETAIL
NTS



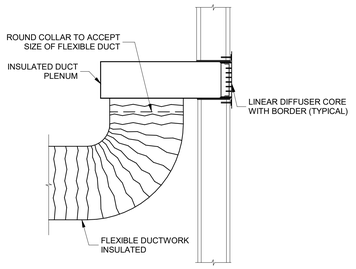
12 DETAIL LINEAR DIFFUSER
NTS



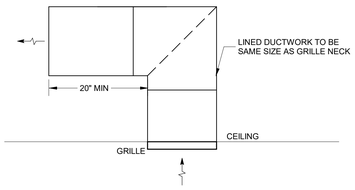
13 DETAIL PIPE SUPPORT ON ROOF DETAIL
NTS



14 DETAIL ROOF MOUNTED EXHAUST FAN
NTS



15 DETAIL SIDEWALL LINEAR DIFFUSER DETAIL
NTS



16 DETAIL RETURN-TRANSFER AIR BOOT DETAIL
NTS

#	DATE	CHANGE DESCRIPTION

CML Marion Franklin Branch
Lockbourne Road, between Faber Ave & Evergreen Rd
Columbus, Ohio 43207
FOR
Owner

MOODY•NOLAN
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: (614) 461-4664
FAX: (614) 280-8881

DRAWING TITLE:

DETAILS - MECHANICAL

PROGRESS DRAWING NOT FOR CONSTRUCTION

Issue Date
DRAWN BY: **BMJ** CHECKED BY: **ZJO**
22150
M501
Project Status

PRINT DATE: 10/3/2023 7:52:11 PM
FILE INFO: Autodesk Docs://CML Marion Franklin/CML_MarionFranklin_v22_MEPFT.rvt

PROJECT SCHEDULE NOTES

1	PROVIDE WITH FACTORY MOUNTED DISCONNECT.
2	PROVIDE WITH BACNET GATEWAY.
3	PROVIDE WITH LOW AMBIENT KIT.
4	MOUNT OUTDOOR UNIT ON EQUIPMENT RAILS.
5	SEPARATE POWER SOURCES FOR INDOOR AND OUTDOOR UNITS.
6	PROVIDE WITH INTEGRAL CONDENSATE PUMP.
7	PROVIDE WITH UNIT MOUNTED THERMOSTAT.
8	COLOR TO BE SELECTED BY ARCHITECT.
9	PROVIDE BALL VALVES IN ALL REFRIGERANT LINES UPSTREAM AND DOWNSTREAM OF BRANCH SELECTOR BOX. INSTALL IN ACCESSIBLE LOCATIONS ADJACENT TO BRANCH SELECTOR BOX.

PROJECT SCHEDULE NOTES

10	UNIT WITH INTEGRAL THERMAL CUTOUT.
11	
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PROJECT SCHEDULE NOTES

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DEDICATED OUTDOOR AIR SYSTEM SCHEDULE (DX/NATURAL GAS) (PART 1 OF 2)

UNIT DATA						ELECTRICAL DATA				SUPPLY FAN DATA						EXHAUST FAN DATA						ENERGY RECOVER WHEEL DATA																	
																						SUMMER SUPPLY AIR				SUMMER EXHAUST AIR				WINTER SUPPLY AIR				WINTER EXHAUST AIR				EFFECTIVENESS					
TAG	MANUFACTURER	MODEL	LOCATION	WEIGHT (LBS)	EER	VOLTS	PHASE	MCA	MOCP	AIRFLOW (CFM)	ESP (IN WG)	TSP (IN WG)	HP	BHP	TYPE	DRIVE TYPE	AIRFLOW (CFM)	ESP (IN WG)	TSP (IN WG)	HP	BHP	TYPE	DRIVE TYPE	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	SUMMER TOTAL	SUMMER SENSIBLE	WINTER TOTAL	WINTER SENSIBLE	APD (IN WG)	FLA
DOAS-1	DAIKIN	DPS006A	ROOF	1,660	11.3	460	3	16.2	20	1,300	1.00	3.30	4.0	1.29	AIRFOIL	ECM DIRECT	700	0.50	1.70	2.3	0.37	AIRFOIL	ECM DIRECT	91.1	73.4	83.3	68.5	75.0	62.0	87.6	71.1	0.0	-1.0	31.5	25.9	70.0	50.0	11.5	0.0	0.8	0.85	0.82	0.86	0.95	0.7

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE (DX/NATURAL GAS) (PART 2 OF 2)

	DX COOLING COIL DATA										HEATING DATA				HOT GAS REHEAT DATA			FILTER DATA									
																		PRE-FILTER			FILTER			EXHAUST			
TAG	REFRIG TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ROWS	COIL FINS PER INCH	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FACE VELOCITY (FPM)	FUEL TYPE	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	GAS INLET PRESSURE (IN W.C.)	CAPACITY (MBH)	LAT DB (°F)	LAT WB (°F)	RATING (MERV)	APD CLEAN (IN WG)	APD DIRTY (IN WG)	RATING (MERV)	APD CLEAN (IN WG)	APD DIRTY (IN WG)	RATING (MERV)	APD CLEAN (IN WG)	APD DIRTY (IN WG)	SCHEDULE NOTES
DOAS-1	R410A	77.0	50.0	4	16	91.1	73.4	55.9	55.9	215	NATURAL GAS	160.0	128.0	5-14	19.8	70.0	61.0	8	0.29	0.58	8	0.29	0.58	8	0.29	0.58	

VRF FAN COIL UNIT SCHEDULE

UNIT DATA					PERFORMANCE DATA				ELECTRICAL DATA				FILTER		
TAG	MANUFACTURER	MODEL	TYPE	NOMINAL TONS	SUPPLY AIRFLOW (CFM)	MIN. OA (CFM)	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	VOLTS	PHASE	MCA	MOCP	QUANTITY	SIZE	SCHEDULE NOTES
FC-01	DAIKIN	FXMQ09PBVJU	CONCEALED	0.75	320	0	9.5	7.80	10.5	208	1	0.6	15	1	24 X 12	
FC-02	DAIKIN	FXMQ24PBVJU	CONCEALED	2.00	690	275	24.0	18.80	27.0	208	1	1.8	15	1	24 X 12	
FC-03	DAIKIN	FXMQ72MVJU	CONCEALED	6.00	1,995	110	72.0	56.98	81.0	208	1	9.5	15	2	24 X 12	
FC-04	DAIKIN	FXMQ07PBVJU	CONCEALED	0.60	320	45	7.2	6.40	8.5	208	1	0.6	15	1	24 X 12	
FC-05	DAIKIN	FXMQ15PBVJU	CONCEALED	1.25	560	30	14.2	12.00	17.0	208	1	1.5	15	1	24 X 12	
FC-06	DAIKIN	FXMQ36PBVJU	CONCEALED	3.00	1,130	210	36.0	28.80	40.0	208	1	2.9	15	2	24 X 12	
FC-07	DAIKIN	FXMQ24PBVJU	CONCEALED	2.00	690	70	24.0	18.80	27.0	208	1	1.8	15	1	24 X 12	
FC-08	DAIKIN	FXMQ09PBVJU	CONCEALED	0.75	320	120	9.5	7.80	10.5	208	1	0.6	15	1	24 X 12	
FC-09	DAIKIN	FXMQ07PBVJU	CONCEALED	0.60	320	0	7.2	6.40	8.5	208	1	0.6	15	1	24 X 12	
FC-10	DAIKIN	FXMQ30PBVJU	CONCEALED	2.50	1,095	150	30.0	23.80	34.0	208	1	2.8	15	2	24 X 12	
FC-11	DAIKIN	FXMQ12PBVJU	CONCEALED	1.00	450	40	12.0	9.70	13.5	208	1	1.4	15	1	24 X 12	
FC-12	DAIKIN	FXMQ24PBVJU	CONCEALED	2.00	690	100	24.0	18.80	27.0	208	1	1.8	15	1	24 X 12	
FC-13	DAIKIN	FXMQ24PBVJU	CONCEALED	2.00	690	100	24.0	18.80	27.0	208	1	1.8	15	1	24 X 12	

VRF HEAT PUMP OUTDOOR UNIT SCHEDULE

UNIT DATA					PERFORMANCE DATA		ELECTRICAL DATA					
TAG	MANUFACTURER	MODEL	NOMINAL TONS	REFRIGERANT	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	VOLTS	PHASE	MCA	MOCP	SOUND DB(A)	SCHEDULE NOTES
HRU-1	DAIKIN	REYQ120AATJA	10.0	R410A	120.0	135.0	208	3	36.5	40	61	
HRU-2	DAIKIN	REYQ192AATJA	16.0	R410A	192.0	216.0	208	3	59.8	60	67	

BRANCH SELECTOR BOX SCHEDULE

UNIT DATA				ELECTRICAL DATA				
TAG	MANUFACTURER	MODEL	SERVING	VOLTS	PHASE	MCA	WEIGHT (LBS)	SCHEDULE NOTES
BS-1	DAIKIN	BSF8Q54TVJ	HRU-1	208	1	0.8	85	9
BS-2	DAIKIN	BSF8Q54TVJ	HRU-2	208	1	0.8	85	9

SPLIT SYSTEM INDOOR UNIT SCHEDULE

UNIT DATA						NOMINAL COOLING CAPACITY (MBH)	SUPPLY AIRFLOW (CFM)	ELECTRICAL DATA			
TAG	MANUFACTURER	MODEL	LOCATION	SERVED BY	TYPE			VOLTS	PHASE	MCA	SCHEDULE NOTES
AC-1	DAIKIN	FAQ18TAVJU	IT ROOM	ACCU-1	WALL MOUNT	18.0	500	208	1	0.5	1, 2, 5, 6

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

UNIT DATA					COOLING DATA	ELECTRICAL DATA					
TAG	MANUFACTURER	MODEL	SERVING	REFRIGERANT	NOMINAL CAPACITY (MBH)	SEER	VOLTS	PHASE	MCA	MOCP	SCHEDULE NOTES
ACCU-1	DAIKIN	RZR18TBVJUA	AC-1	R410A	18.0	16.9	208	1	16.5	20	1, 2, 3, 4, 5

CABINET UNIT HEATER SCHEDULE (ELECTRIC)

UNIT DATA				BASIS OF DESIGN		PERFORMANCE DATA			ELECTRICAL DATA					
TAG	TYPE	INLET TYPE	OUTLET TYPE	MANUFACTURER	MODEL	AIRFLOW (CFM)	EAT DB (°F)	LAT DB (°F)	CAPACITY (KW)	STAGES	VOLTS	PHASE	EMERGENCY POWER	SCHEDULE NOTES
ECH-1	WALL RECESSED	FRONT GRILLE	FRONT GRILLE	INDEECO	WCI	160	60.0	160.0	5.0	1	208	3	No	1, 7, 8

ELECTRIC BASEBOARD HEATER SCHEDULE

UNIT DATA				HEATING ELEMENT DATA						
TAG	MANUFACTURER	MODEL	TYPE	WATTS/FT	WATTS	LENGTH (IN)	VOLTS	PHASE	AMPS	SCHEDULE NOTES
EBH-1	INDEECO	BMI	PEDESTAL	100	300	36	208	1	1.3	1, 8, 10
EBH-2	INDEECO	BMI	PEDESTAL	100	500	60	208	1	2.1	1, 8, 10

AIR DEVICE SCHEDULE

UNIT DATA		BASIS OF DESIGN			LINEAR DATA			GENERAL DATA			
TAG	FUNCTION	MANUFACTURER	MODEL	FACE SIZE	LENGTH (IN)	# OF SLOTS	SLOT WIDTH (IN)	MATERIAL	INTEGRAL VOLUME DAMPER	MAX NC	SCHEDULE NOTES

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Structural Engineer
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Advanced Engineering Consultants
1405 Dublin Rd, Columbus OH 43215

Drawing Issue Dates

Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion Franklin Branch

Lockbourne Road, between Faber Ave & Evergreen Rd Columbus, Ohio 43207

NOT FOR CONSTRUCTION

SCHEDULES - MECHANICAL

M601

Issue Date

22150

BUILDING GLOBAL POINTS

Type	Description	Quantity	D	M	A	L	S	G
AI	Outside Air Temperature	1	X			X		X
DI	General Alarm / Smoke Signal (from fire system)	1	X		X			X
PI	Building Electric Meter	*	X			X		X

* Quantity to be determined per the associated drawings.

DEDICATED OUTSIDE AIR SYSTEM (DOAS) WITH ERW

A. Factory mounted discharge air control shall be provided by unit manufacturer. These packaged unit controls shall sequence the DX cooling and gas heat to maintain a discharge air temperature setpoint. Factory controls shall also provide control for economizer, minimum outside air control, and exhaust fan control.

B. A BAS communications interface shall be provided by the unit manufacturer.

1. Wiring and termination of the BAS to the interface shall be provided by the BAS contractor. Final terminations shall be verified by the representative of the unit manufacturer prior to startup.

C. Safeties

1. All controls shall incorporate the following safeties where applicable:
2. Smoke detectors for the unit shall be provided and installed by the Electrical Contractor and interlocked by the Electrical Contractor (unless otherwise specified) to stop the air handling unit fan(s) when smoke is detected (unless otherwise specified).
3. Damper limit switches shall be provided on the exhaust air dampers and shall be interlocked with the exhaust fan. The exhaust fan shall be disabled until the damper is proven open.

D. Mode control

1. The air handling unit shall have a Pre-Occupied, Occupied, and Unoccupied mode of operation.
2. The operating mode shall be automatically initiated through occupied/unoccupied time-of-day schedules or operator commands at the BAS operator workstation.
3. Within each mode the unit shall operate as described below.

E. Occupied Mode

1. Discharge Air Control. The packaged unit controls shall maintain a constant discharge air temperature setpoint of 70° F. The discharge air temperature setpoint shall be adjustable through the BAS.
   1) On a call for cooling, the unit's refrigeration controls shall operate to maintain discharge air temperature setpoint.
   2) On a call for heat, the unit shall modulate the gas heating section to maintain the discharge air temperature setpoint.

F. Economizer Mode

1. The unit shall be in "economizer mode" when the outside air temperature is between 45 deg and 65 deg. During the "economizer mode" of operation, the heating and cooling functions shall be locked out. If a heat wheel failure is detected, the heating mode shall be enabled.
2. When the outside air temperature is below 45 degrees, the heating mode shall be active. The cooling mode shall remain disabled.
3. When the outside air temperature is above 65 deg, the cooling mode shall be enabled, the heating mode shall remain disabled.

G. Modulating Hot Gas Reheat

1. The unit is provided with fully modulating, sub-cooling, hot gas reheat coil.
2. The controls shall utilize both leaving coil temperature sensor (LCT), and discharge air temperature sensor (DAT).
3. During dehumidification, the refrigeration circuit controls the compressor(s) to maintain the LCT setpoint (adjustable) and the reheat coil is controlled to maintain the supply air reheat setpoint.
4. When a call for both cooling and dehumidification is made, the reheat setpoint is set as the cooling DAT setpoint.
5. During a call for dehumidification only, the reheat setpoint is reset in a linear manner between the min and max reheat setpoints (adjustable). This reset is based on the cooling and heating setpoints for the DOAS unit.
6. Enable dehumidification based on dew point. Dehumidification will be activated when the dew point in the space rises above the dehumidification setpoint.

H. Unoccupied Control

1. During the scheduled unoccupied times, the unit shall be off.
2. Night Setback Heating Control - When any space temperature drops below the unoccupied heating setpoint of 55° F, the unit shall start and continue to run for a minimum of 5 minutes after satisfaction of the space setpoint.
3. Night Setup Cooling Control - When any space temperature rises above the unoccupied cooling setpoint of 85° F, the unit shall start and continue to run for a minimum of 5 minutes after satisfaction of the space setpoint.

I. Morning Warm-Up

1. During the warm-up mode, the unit shall operate similar to the occupied mode with the following exceptions:
   a. The discharge air setpoint shall be increased to 95° F.
   b. The outside air dampers and exhaust air dampers shall remain fully closed. The recirculation air damper shall remain fully open.
   c. The exhaust fan shall remain off. Energy recovery wheel shall be off.
   d. Cooling shall be disabled.
2. This mode shall continue until the space reaches its targeted occupied setpoint or the scheduled occupied start time is reached.

J. Morning Cool-Down

1. During the cool down mode, the unit shall operate similar to the occupied mode with the following exceptions:
   a. The discharge air setpoint shall be decreased to 55° F.
   b. The outside air dampers and exhaust air dampers shall remain fully closed. The recirculation air damper shall remain fully open.
   c. The exhaust fan shall remain off. Energy recovery wheel shall be off.
   d. Heating shall be disabled.
2. This mode shall continue until the space reaches its targeted occupied setpoint or the scheduled occupied start time is reached.

K. Discharge Air Temperature (DAT) Reset

1. The DAT setpoint may be reset based on outdoor air temperature. A linear relationship between the DAT and the outdoor air temperature will be created for minimum and maximum DAT setpoints. The DAT is to be reset from 62F at an outdoor air temperature of 85F to a temperature of 76F at an outdoor air temperature of 20F. All values shall be adjustable.

L. Building Pressure Control

1. Provide building static pressure transmitter located within the DOAS control panel. Tubing shall be run from the panel to the building pressure pickup location and the outside building reference location. System shall have bidirectional reading capability for positive and negative pressures. The building pressure pickup location shall be in Staff Room 135 and be located in a location that is not influenced by diffuser supply airflow jets. The outside building reference location shall be on the roof in a location and elevation to negate wind effects. Building pressure setpoint shall be 0.02" (adjustable).

K. System Points:

Type	Description	Quantity	D	M	A	L	S	G
AI*	Outside Air Temperature	1	X					
AI*	Outside Air Humidity	1	X					
***	Unit Enable Command	1	X	X				
***	Unit Mode Status	1	X		X	X		
***	Supply Fan Command	1	X	X				
***	Outdoor Air Flow Measurement	1	X		X	X		
***	Supply Fan Command	1	X	X	X	X		
***	Supply Fan Status	1	X		X	X		
***	Supply Air Speed Command	1	X	X				
***	Exhaust Air Flow Measurement	1	X					
***	Exhaust Fan Speed Command	1	X	X				
***	Dirty Filter Alarm Status	1	X		X	X		
***	High Static Pressure Cutout	1	X		X	X		
***	Mixed Air Temperature	1	X		X	X		
***	Exhaust Air Damper	1	X	X				
***	Economizer Dampers	1	X	X				
***	Energy Recovery Wheel Command	1	X	X				
***	Energy Recovery Wheel Status	1	X		X	X		
***	DX Cooling Command 1	1	X	X				
***	DX Cooling Command 2	1	X	X				
***	DX Cooling Command 3	1	X	X				
***	DX Cooling Command 4	1	X	X				
***	Heating Command 1	1	X	X				
***	Heating Command 2	1	X	X				
***	Heating Command 3	1	X	X				
***	Heating Command 4	1	X	X				
***	Return Air Temperature	1	X		X	X		
***	Return Air Humidity	1	X		X	X		
***	Return Air CO2	1	X		X	X		
***	Space Temperature	1	X		X	X		
***	Space Humidity	1	X		X	X		
***	Coldest Space Temperature	1**	X		X	X		
***	Warmest Space Temperature	1**	X		X	X		
***	Building Pressure	1	X		X	X		

* Point shared from global points list.
** Determined from all the terminal units served by the air handler.
*** Field verify type available for integration back to BAS system

VARIABLE REFRIGERANT FLOW (VRF) SYSTEM

A. Factory mounted controls shall be provided by unit manufacturer. These packaged unit controls shall sequence the DX cooling and heating to maintain a space temperature setpoint.

1. Each unit's occupancy shall be scheduled through the BAS based on the scheduling requirements of the owner and provide the following:
   a. Zone fan shall be on, and unit shall cycle heating or cooling operation during occupied mode
   b. Occupant shall not have to select the mode of operation (heating/cooling) for zones that have adjustable space temp control (staff work areas).
   c. fan shall be off during unoccupied mode, cycling on as needed to heat/cool
   d. VRF points shall be reported to and logged at the BAS. Points include: Discharge Air Temperature, VRF zone temperature, zone temperature set point, VRF cool/heat status, and fan status.
2. The unit shall control the space temperature to the following adjustable space temperature setpoints, as a starting point.
   a. Occupied Mode
      1) Heating - 72° F
      2) Cooling - 75° F
   b. Unoccupied Mode
      1) Heating - 55° F
      2) Cooling - 85° F

B. Pre-Occupied Mode

1. Each VRF unit shall be controlled on its own occupied/unoccupied time schedule as defined at the operator workstation. The BAS shall index the unit to start in advance of the scheduled occupied time, via an adaptive optimal start sequence. The unit shall enter an optimal-start mode to command the unit into the occupied mode early, as required to achieve space setpoint by the normal scheduled occupancy time.
2. Should the space temperature not reach the occupied setpoint before to the scheduled occupied time, or reach the setpoint too early, the adaptive optimal start sequence shall automatically adjust itself for subsequent starts.

C. A BAS communications interface shall be provided by the unit manufacturer.

1. Wiring and termination of the BAS to the interface shall be provided by the BAS contractor. Final terminations shall be verified by the representative of the unit manufacturer prior to startup. All points available through the communications interface shall also be monitored and/or commanded

UNIT HEATERS

A. When the outside air temperature is below 45 deg, a wall mounted line voltage thermostat shall cycle the fan and electric heating coil to maintain its adjustable setpoint. Heater shall be locked out when outside air temperature is above 45 deg.

B. The building automation system shall control the space temperature to 60 deg (adj).

C. System Points:

Type	Description	Quantity	D	M	A	L	S	G
AO	Space Temperature Setpoint	1 per htr	X	X				
DO	Heater/OA Lockout Command	1	X	X				

BASEBOARD HEATERS

A. Baseboard heaters shall operate as a second stage of heat (Fan Coils shall be first stage of heat).

B. When a nearby Fan Coil zone drops more than 2 deg below the zone heating setpoint, activate baseboard heater.

C. Heater shall be locked out if nearby Fan Coil is in cooling mode as determined by the zone temperature and the setpoint.

D. Heater shall be locked out if outside air temperature is above 55 deg F (adjustable).

EXHAUST FANS

A. Misc. exhaust fans including all toilet exhaust fans shall be controlled in conjunction with the occupied/unoccupied condition of the air handling unit or zoned area in which the fan is located.

B. Other fans (as noted in the Fan Schedule on the Drawings) shall be controlled via switch or timer, installed by the Electrical Contractor.

C. A motor current operated switch shall input fan status to a DDC panel for ALL exhaust fans.

D. System Points:

Type	Description	Quantity	D	M	A	L	S	G
DO	Exhaust Fan Command	1 per fan*	X	X				
DI	Exhaust Fan Status	1 per fan	X		X	X		
AI	Mechanical/Electrical Room Temperature	1	X		X	X		
AI	Main Mechanical Room Temperature	1	X		X	X		
DO	Main Mechanical Room Intake Damper Command	1	X	X				

* As noted in the Fan Schedule on the Drawings

BUILDING LIGHTING

A. The building exterior lighting shall be controlled on a time schedule as defined at the operator workstation. Interior lighting shall be controlled directly by the lighting control system. Lighting data and control points shall be accessible through the communications interface provided with the lighting control panel.

B. System Points:

Type	Description	Quantity	D	M	A	L	S	G
DO	Lighting Command	1 per circuit or zone	X	X				

UTILITY METERING

A. Integrate Gas Meter reading with Building Automation System.

B. Integrate Water Meter reading with Building Automation System.

C. Integrate Electric Meter reading with Building Automation System.

D. Monitor Elevator Sump Pump level through the Building Automation System.

E. Monitor Domestic Water circulation pump status through the Building Automation System.

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Revision Schedule

No.	Description	Date

CML Marion Franklin Branch

Lockbourne Road, between Faber Ave & Evergreen Rd
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NOT FOR CONSTRUCTION

SEQUENCES OF OPERATION - MECHANICAL

M801

Issue Date

22150

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	AMPERE
AC	ALTERNATING CURRENT OR AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
AWG	AMERICAN WIRE GAUGE
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
DC	DIRECT CURRENT
DP	DISTRIBUTION PANELBOARD
DTT	DOUBLE TWIN TUBE
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL TRADES CONTRACTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GEN	GENERATOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPC	HIGH PRESSURE CONTACT SWITCH
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCD	INCANDESCENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING OR LIGHT
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MH	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSH BUTTON
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
PWR	POWER
RECPT	RECEPTACLE
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TRT	TRIPLE TUBE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLT
W	WATT
WAP	WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF, NEMA 3R UNO
XFMR	TRANSFORMER
Z	IMPEDANCE
□	PHASE

LIGHTING SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
	GENERAL PURPOSE LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	GENERAL PURPOSE LUMINAIRE ON EMERGENCY POWER: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	ROUND LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL WASHER: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	WALL MOUNTED DECORATIVE LUMINAIRE: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
	TRACK LIGHTING
	TRACK LIGHTING HEAD
V	REMOTE HEAD
	EMERGENCY LIGHT
	EXIT SIGN
	CEILING MOUNTED ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROWS
	EXIT SIGN WITH INTEGRAL HEADS
$X	LINE VOLTAGE SWITCH: X=BLANK-SINGLE POLE 20A, TOGGLE; X=3-THREE WAY; X=4-FOUR WAY; X=P-PILOT LIGHT; X=K-KEY; X=MS-MOMENTARY; X=OS-OCCUPANCY; X=OS,D-COMBO OCCUPANCY 0-10V DIMMING
PC	PHOTOCELL
LV	LOW VOLTAGE SWITCH: REFER TO CONTROLS SCHEDULE FOR BUTTON QUANTITIES
OS X	CEILING MOUNTED OCCUPANCY SENSOR: X=BLANK-DUAL TECHNOLOGY; X=IR-PASSIVE INFRARED; X=US-ULTRASONIC
PP	POWER PACK
J	JUNCTION BOX
	PANELBOARD

POWER SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
X	20A DUPLEX RECEPTACLE WITH COVER PLATE: X=MOUNTING HEIGHT (STANDARD = 18" TO CENTER); F=FLUSHED IN FLOOR, C= FLUSHED IN CEILING
GFI	GFCI (GROUND FAULT CIRCUIT INTERRUPTER) TYPE RECEPTACLE:
WP	WEATHER-RESISTANT, GFCI RECEPTACLE: WITH "EXTRA DUTY" WEATHERPROOF IN-USE COVER
	RECEPTACLE, MOUNT AT 4" ABOVE SURFACE OR BACKSPLASH TO BOTTOM (48" AFF IF NO SURFACE)
U	USB TYPE RECEPTACLE WITH TAMPER RESISTANT
	SIMPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE; SEE DUPLEX RECEPTACLE FOR TYPES
	WALL MOUNTED SPECIAL RECEPTACLE: REFER TO PLANS FOR ADDITIONAL INFORMATION
	SURFACE MOUNTED RACEWAY
X/Y/Z	STANDARD DISCONNECT SWITCH: X=CIRCUIT BREAKER SIZE, Y=NUMBER OF POLES, Z=SPECIAL DESIGNATION
X/Y/Z	STANDARD FUSED DISCONNECT SWITCH: X=CIRCUIT BREAKER SIZE, Y=FUSING, Z=NUMBER OF POLES
X/Y	MOTOR STARTER: X=STARTER SIZE, Y=NUMBER OF POLES
X/Y/Z	COMBINATION MOTOR STARTER/DISCONNECT SWITCH: X=STARTER SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES
	MOTOR (BY OTHERS): PROVIDE POWER AS INDICATED
M	UTILITY METER
M,2	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER; 2 = 2-POLE
J	JUNCTION BOX
SPD	SURGE PROTECTIVE DEVICE
	PANELBOARD
FB A	RECESSED 2-GANG FLOOR BOX (POWER ONLY) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL). (1) DUPLEX RECEPTACLE (1) EMPTY GANG FOR FUTURE USE
FB B	RECESSED 4-GANG FLOOR BOX (POWER AND DATA) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL). (2) DUPLEX RECPTACLES (2) DATA OUTLETS
FB C	RECESSED 6-GANG FLOOR BOX (POWER AND DATA) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL). (3) DUPLEX RECEPTACLES (6) DATA OUTLETS
FB D	RECESSED FLOOR BOX (POWER AND DATA) (WIREMOLD RFB11-FPCTC SERIES OR APPROVED EQUAL). HARDWIRED FURNITURE CONNECTION COORDINATE COVER PLATE WITH ARCHITECT.

FIRE ALARM SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
F	MANUAL PULL STATION (48" TO HANDLE OF DEVICE)
	HEAT DETECTOR
	DUCT MOUNTED HEAT DETECTOR
S	SMOKE DETECTOR
S	DUCT MOUNTED SMOKE DETECTOR
S	SPEAKER (80" AFF TO BOTTOM OF DEVICE)
	SPEAKER WITH STROBE (80" AFF TO BOTTOM OF DEVICE)
F	HORN (80" AFF TO BOTTOM OF DEVICE)
	HORN WITH STROBE (80" AFF TO BOTTOM OF DEVICE)
	STROBE (80" AFF TO BOTTOM OF DEVICE)
	WALL MOUNTED STROBE (80" AFF TO BOTTOM OF DEVICE)
F	BELL, 120V
WF	WATER FLOW SWITCH: DIVISION 28 TO PROVIDE
T	WATER TAMPER SWITCH: DIVISION 28 TO PROVIDE
PV	PIV VALVE
AIO	ADDRESSABLE INPUT-OUTPUT MODULE
IM	ISOLATION MODULE
DH	MAGNETIC DOOR HOLDER
	FIREMAN'S PHONE
	REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (60" AFF TO CENTERLINE)
	WALL MOUNTED REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (60" AFF TO CENTERLINE)
	REMOTE INDICATOR TEST SWITCH
R	FAN SHUT-DOWN RELAY
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL

CLOCK SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.	
S,D	WALL MOUNTED ANALOG CLOCK: S=SINGLE FACE, D=DOUBLE FACE
S,D	CEILING MOUNTED ANALOG CLOCK: S=SINGLE FACE, D=DOUBLE FACE
S,D	WALL MOUNTED DIGITAL CLOCK: S=SINGLE FACE, D=DOUBLE FACE
S,D	CEILING MOUNTED DIGITAL CLOCK: S=SINGLE FACE, D=DOUBLE FACE

LINE TYPE LEGEND

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW WORK

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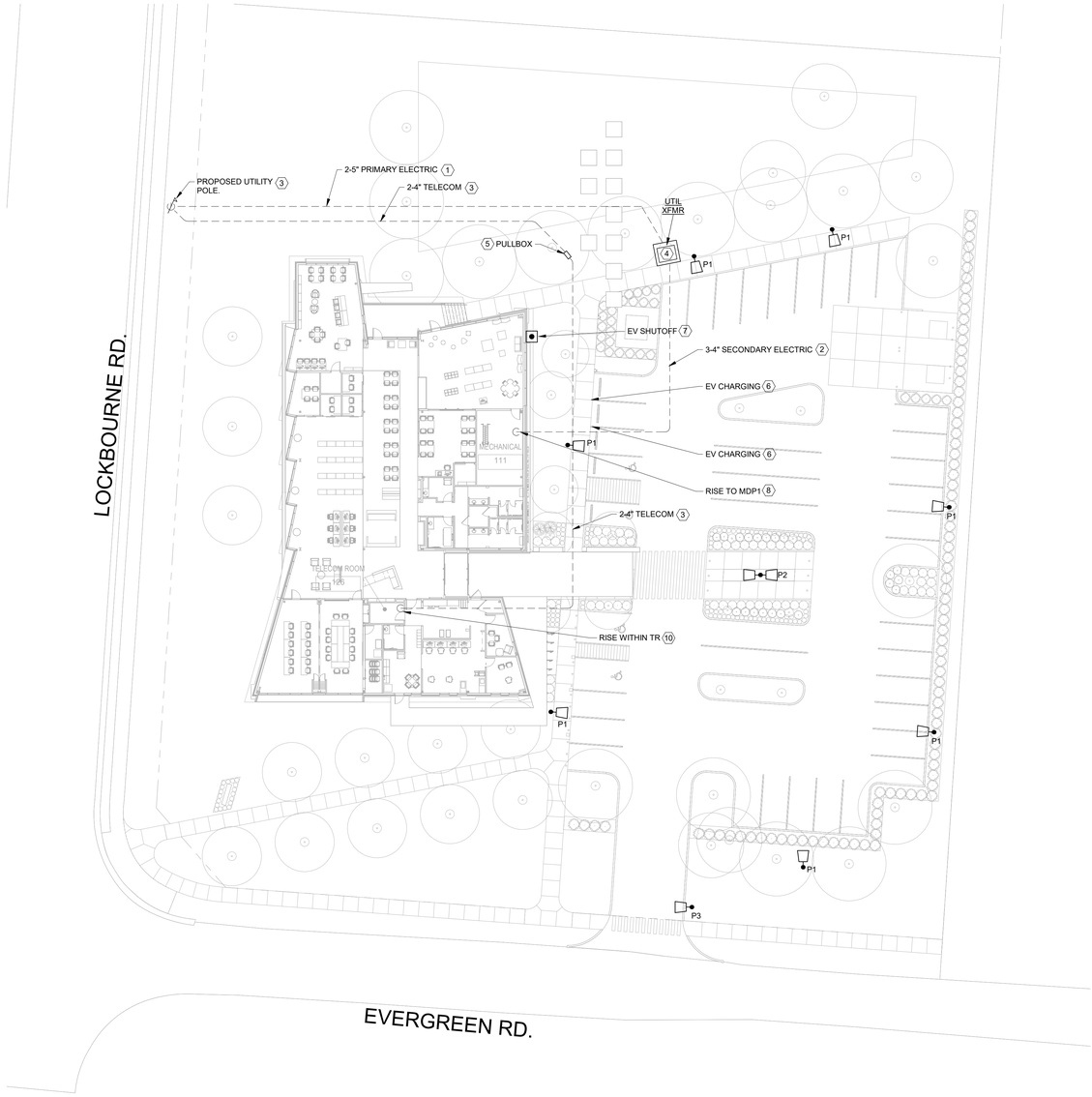
GENERAL INFORMATION - ELECTRICAL

E001

Issue Date

22150



N

1 SITE PLAN - ELECTRICAL
1" = 20'-0"

GENERAL SHEET NOTES

1. MINIMUM SIZE FOR ALL SITE CONDUIT SHALL BE 1.25", UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1. ENCASED PRIMARY DUCT BANK FROM NEW UTILITY POLE, LOCATED WITHIN R/W. REFER TO DUCT BANK DETAIL 1/E501. CONDUCTORS AND TERMINATIONS SHALL BE BY THE UTILITY COMPANY. COORDINATE DUCT BANK LOCATION WITH OTHER UTILITIES MAINTAIN 5' EASEMENT ON EITHER SIDE OF PRIMARY DUCT BANK. PARALLEL UTILITIES MUST KEEP OUTSIDE OF THIS EASEMENT.
2. SECONDARY ENCASED DUCT BANK. REFER TO DUCT BANK DETAIL 1/E501. CONTRACTOR SHALL PROVIDE CONDUCTORS AND TERMINATION. CONDUIT COUNT SHOWN INCLUDES REQUIRED SPARES.
3. ENCASED TELECOM DUCT BANK. REFER TO DUCT BANK DETAIL 1/E501.
4. UTILITY XFMR PAD SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS. REFER TO DETAIL X/XX. COORDINATE WITH AEP WHO WILL FURNISH AND INSTALL TRANSFORMER.
5. GROUND MOUTNED PULL BOX 17" X 30" QUAZITE PG STYLE, REFER TO DETAIL X/XX.
6. EV CHARGING STATION.
7. PROVIDE KNOX REMOTE POWER BOX AT 60" A.F.G. WITH EMERGENCY STOP BUTTON FOR EV CHARGERS. EMRGENCY STOP SHALL TRIGGER SHUNT TRIP IN BREAKER SERVING CHARGING UNITS. PROVIDE 120V CIRCUIT BETWEEN ESTOP AND EV CHARGER BREAKERS.
8. SECONDARY SERVICE LATERAL SHALL TURN UP WITHIN MAIN ELECTRICAL/MECHANICAL ROOM AT SERVICE ENTRANCE EQUIPMNT. REFER TO POWER SHEET E201 FOR EXCACT LOCATION.
9. PROPOSED UTILITY POLE BY LOCAL ELECTRIC UTILITY CO. SHALL BE LOCATED WITHIN R/W. POLE SHALL SERVE AS PRIMARY RISER AND TELECOM RISER.
10. TELECOM DUCT BANK SHALL TURN UP WITHIN MAIN TELECOM ROOM ROOM. REFER TO TECHNOLOGY SHEET T401 FOR EXCACT LOCATION.
11.

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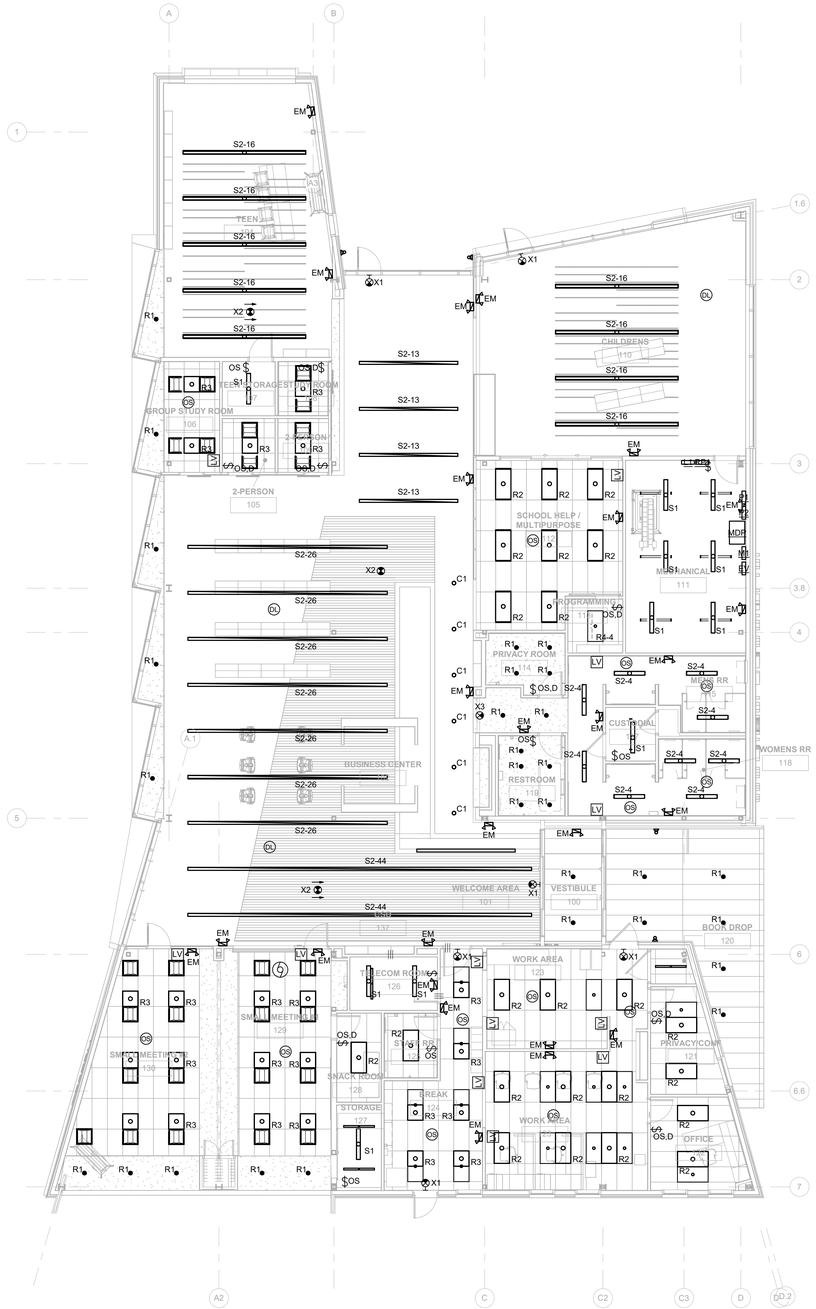
SITE PLAN - ELECTRICAL

E002

Issue Date

22150



1 FIRST FLOOR CEILING PLAN - LIGHTING
1/8" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATIONS OF DEVICE AND LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND HVAC PLANS PRIOR TO ROUGH-IN TO AVOID CONFLICTS.

B. EMERGENCY EGRESS LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING OR CONTROLS WITH A MINIMUM OF #12 AWG CONDUCTORS.

C. PROVIDE ALL MOUNTING HARDWARE PER MANUFACTURER'S WRITTEN INSTRUCTIONS TO SUPPORT LUMINAIRE. CONTRACTOR TO VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. LUMINAIRES SHALL NOT BE SUPPORTED BY CEILINGS.

D. POWER PACKS AND SLAVE PACKS SHALL BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO THE ENTRY DOOR.

E. NO SHARED NEUTRALS - EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.

F. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROL AND CIRCUIT. ARC LINES INDICATE A COMMON BRANCH BUT SEPARATE CONTROLS CIRCUIT.

G. REFER TO SPECIFICATIONS FOR ADDITIONALREQUIREMENTS.

H. UNLESS NOTED OTHERWISE, LUMINAIRES WITH 0-10V DIMMING DRIVERS SHALL HAVE 0-10V DIMMING CONTROLS WIRED TO LIGHTING CONTROL DEVICE, JUNCTION BOX OR POWER PACK, REGARDLESS OF CONTROLS (DIM OR NONDIM) DEFINED.

I. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES IN THE SAME SPACE.

J. COORDINATE INSTALLATION OF SUSPENDED LUMINAIRES WITH ACOUSTIC PANELS. REFER TO ARCHITECTURAL PLANS. PROVIDE BLOCKING/JUNCTION BOXES AS REQUIRED TO MOUNT LUMINAIRES AND CEILING DEVICES..

K. FIELD COORDINATE ALL SUSPENDED LUMINAIRE MOUNTING WITH CML AND ARCHITECT PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1. -

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion
Franklin Branch

Lockbourne Road, between
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Columbus, Ohio 43207

NOT FOR CONSTRUCTION

FIRST FLOOR CEILING PLAN - LIGHTING

E101

Issue Date

22150

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

GENERAL SHEET NOTES

A. FIELD VERIFY EXACT LOCATIONS OF ALL RECEPTACLES AND EQUIPMENT. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION WORK TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN DIVISION 26.

B. COORDINATE ALL ROUGH-IN REQUIREMENTS OF DEVICES AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

C. UNLESS NOTED OTHERWISE, ALL CABLING SHALL BE IN CONDUIT ROUTED PARALLEL AND TIGHT TO BUILDING STRUCTURE.

D. PROVIDE FINAL CONNECTIONS AS SHOWN TO ALL EQUIPMENT SHOWN PER MANUFACTURER'S PUBLISHED INSTRUCTION.

E. COORDINATE DEVICE COLOR SELECTIONS WITH ARCHITECT AND OWNER.

F. REFER TO MECHANICAL SCHEDULE SHEETS M6.01 AND M6.02 FOR ADDITIONAL INFORMATION.

G. COORDINATE FINAL FLOOR BOX LOCATION WITH ARCHITECTURAL FURNITURE PLANS.

H. PROVIDE ELECTRICAL SHOCK WARNING LABEL FOR MECHANICAL FC UNITS. "WARNING, LIVE ELECTRICAL PARTS WITHIN". REFER TO SPECIFICATIONS.

SHEET KEYNOTES

1. OVERHEAD DOOR OPERATOR. SIDE MOUNT ON WALL AT 120' A.F.F.. PROVIDE LOW VOLTAGE CABLE WITH #24 AWG MINIMUM IN 1/2" CONDUIT TO SAFETY SENSORS AT LOWER EDGES OF DOOR. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. WALL MOUNTED OVERHEAD DOOR CONTROLLER PROVIDED BY DOOR SUPPLIER AND INSTALLED BY E.C. MAKE FINAL CONNECTIONS TO DOOR OPERATOR.
3. PROVIDE POWER CONNECTION TO MOTORIZED MOVABLE PARTITION (208V, 3PH) AND CONTROLS. MAKE FINAL CONNECTIONS TO CONTROLS AS INDICATED IN CODED NOTES 26 AND 27. FIELD VERIFY EXACT REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
4. PUSH BUTTON SWITCH FOR MOTORIZED MOVABLE PARTITION FOR SAFETY OPERATIONS.
5. KEY SWITCH FOR MOTORIZED MOVABLE PARTITION TO ACTIVATE THE SYSTEM. MOUNT AT 42" A.F.F. NEXT TO PUSH BUTTON SWITCH AS INDICATED IN CODED NOTE 26.
6. ADULT CHANGING STATION. PROVIDE WALL SWITCH FOR POWER SHUT OFF, REFER TO MANUFACTURER INSTRUCTION FOR SWITCH AND ESTOP LOCATION. MAKE FINAL CONNECTIONS.
7. JUNCTION BOX FOR POWER CONNECTION TO ROOM SCHEDULER. PROVIDE 1/2" CONDUIT STUBBED UP 3" ABOVE ACCESSIBLE CEILING.

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CML Marion Franklin Branch

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NOT FOR CONSTRUCTION

FIRST FLOOR PLAN - POWER

E201

Issue Date

22150

Autodesk Docs://CML Marion Franklin/CML_MarionFranklin - v22 - MEPFT.rvt
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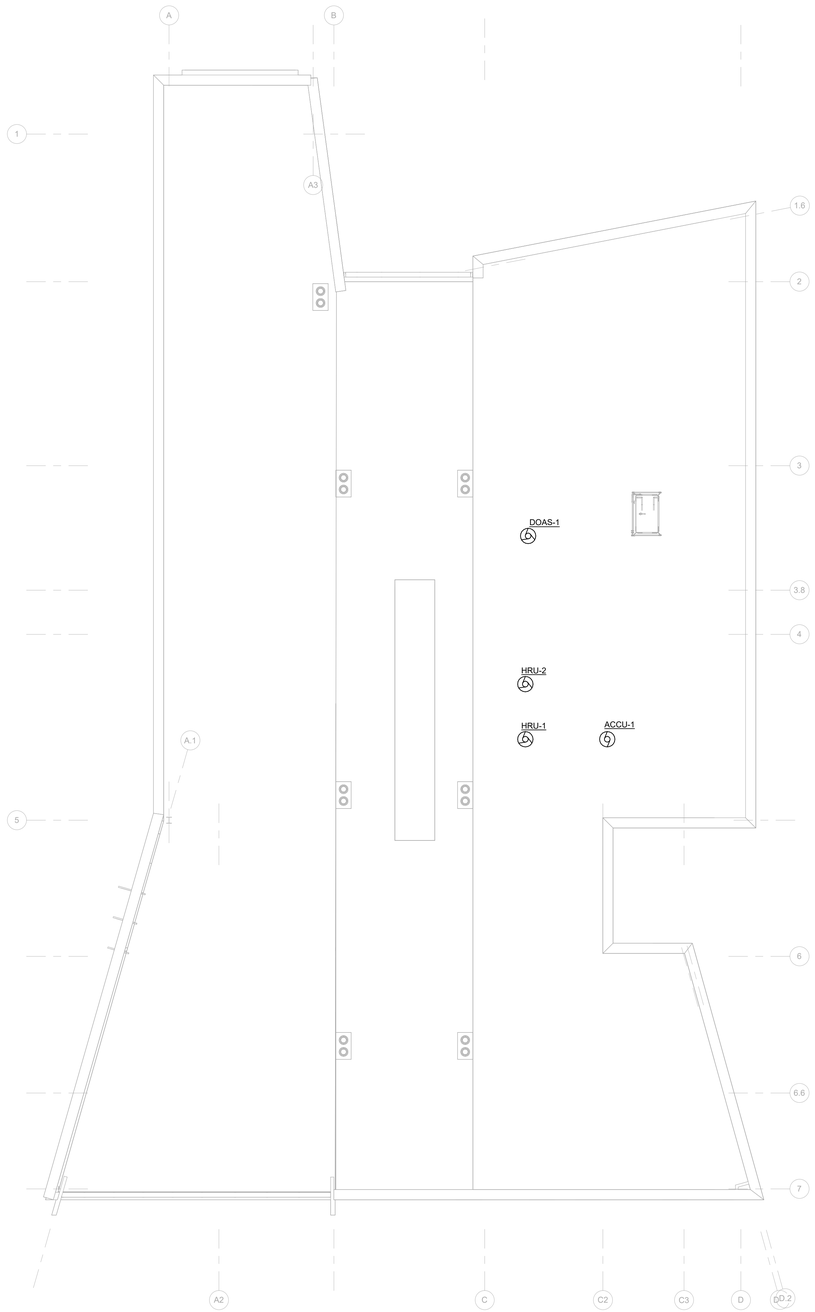

1 ROOF PLAN - POWER
1/8" = 1'-0"

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1. -

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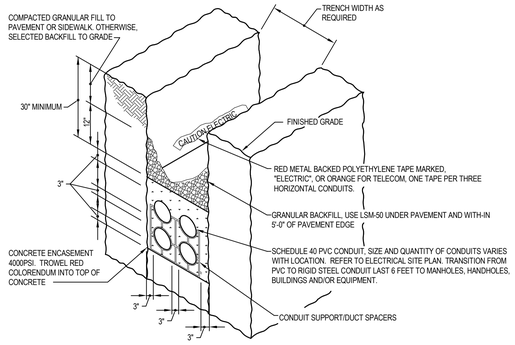
NOT FOR CONSTRUCTION

ROOF PLAN - POWER

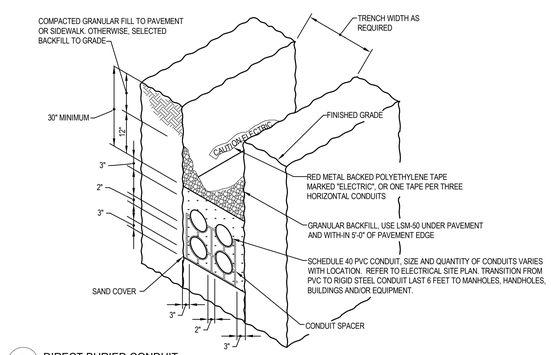
E202

Issue Date

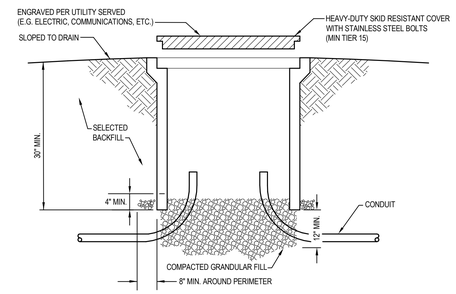
22150



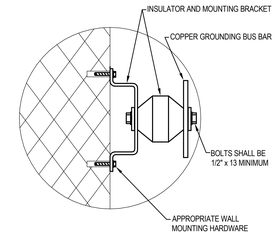
1 CONCRETE ENCASED DUCT BANK
NTS



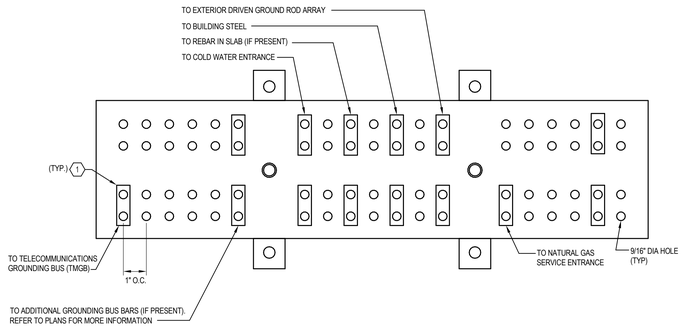
2 DIRECT BURIED CONDUIT
NTS



3 TYPICAL PULLBOX
NTS



4 BUS BAR MOUNTING
NTS



5 ELECTRIC MAIN GROUNDING BUS BAR
NTS

DETAIL GENERAL NOTES:

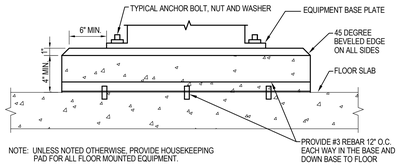
A. MINIMUM REQUIRED SIZE OF BUS SHALL BE 6"X2"X"0.25". PROVIDE LARGER SIZE AS REQUIRED. ALL CONNECTIONS MAY NOT BE EXPLICITLY SHOWN.

B. GROUND BAR SHALL BE SOLID COPPER.

C. ALL CONNECTIONS TO GROUND BAR WILL BE WITH 2-HOLE LUGS, 1/2-INCH BOLTS WITH LOCK WASHERS ON THE BACK, AND BELLVILLE WASHERS ON THE FRONT SIDE.

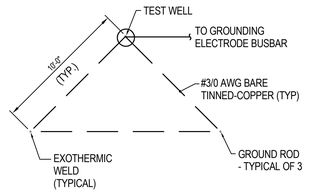
DETAIL CODED NOTES:

1. ALL GROUND WIRING CONNECTING TO GROUNDING BUS BAR SHALL BE MINIMUM #3/0 AWG UNLESS NOTED OTHERWISE.

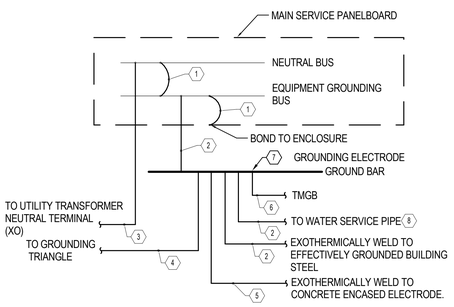


NOTE: UNLESS NOTED OTHERWISE, PROVIDE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.

6 INTERIOR EQUIPMENT HOUSEKEEPING CONCRETE PAD
NTS



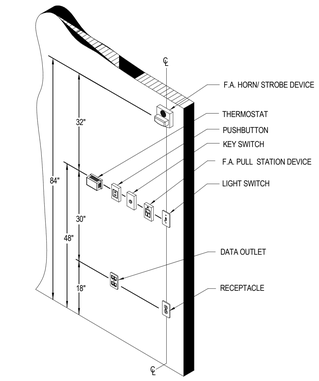
7 GROUND TRIANGLE
NTS



CODED NOTES:

1. MAIN BONDING JUMPER: PROVIDED AS PART OF LISTED AND LABELED SERVICE EQUIPMENT.
2. GROUNDING ELECTRODE CONDUCTOR: #3/0 AWG COPPER.
3. GROUNDED (NEUTRAL) CONDUCTOR: (REFER TO DISTRIBUTIN ONE-LINE FOR SIZE).
4. SUPPLEMENTAL GROUNDING ELECTRODE BONDING JUMPER CONDUCTOR: #3/0 AWG COPPER.
5. GROUND ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR: #3/0 AWG COPPER.
6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 3/0 AWG STRANDED COPPER WITH GREEN INSULATION.
7. PROVIDE UL 467 LISTED CONNECTIONS (TYPICAL)
8. PROVIDE #3/0 BOND ACROSS WATER METER.

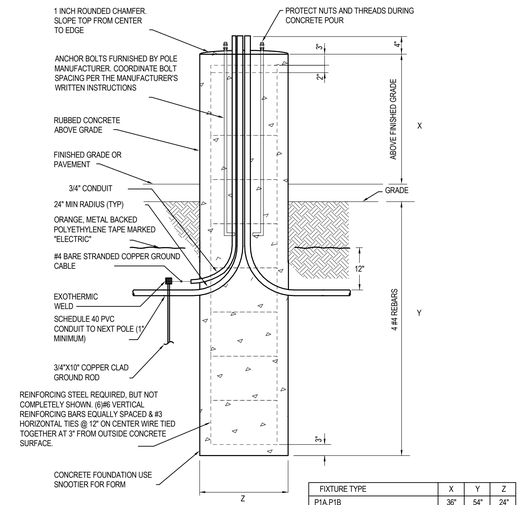
8 SYSTEM GROUND
NTS



NOTES:

1. DEVICES SHOWN STACKED ALONG WALLS FALL IN THE ORDER OF LOWEST (CLOSEST TO WALL) TO HIGHEST (FURTHEST FROM WALL)
2. HEIGHTS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ELSEWHERE ON DRAWINGS, SPECS OR IDENTIFIED IN APPLICABLE CODES.
3. VERTICAL DIMENSIONS ARE TO CENTER OF DEVICE.

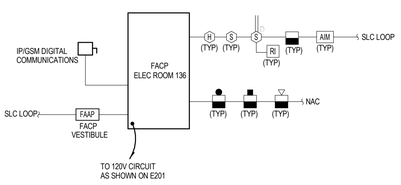
9 WALL DEVICE ORIENTATION
NTS



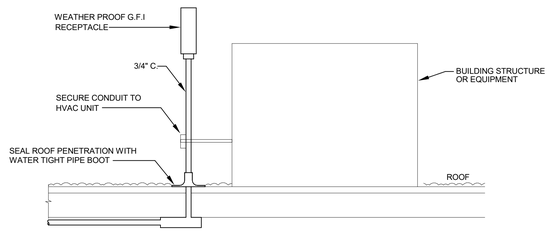
FIXTURE TYPE	X	Y	Z
P1A,P1B	36"	54"	24"
P1C	36"	72"	24"
P2,P3	6"	54"	24"

ADJUST POLE HEIGHTS PER DIMENSION "X" ON DETAIL 8/E501 SUCH THAT HEIGHTS OF TYPES P1A,P1B, P1C ARE THE SAME AND TYPES P2A AND P2B ARE THE SAME.

10 POLE BASE
NTS



11 FIRE ALARM RISER SYSTEM SCHEMATIC
NTS



12 ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE
NTS

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CML Marion Franklin Branch

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DETAILS - ELECTRICAL

E501

Issue Date

22150

LUMINAIRE SCHEDULE

TYPE	DIMENSIONS	MOUNTING	CONSTRUCTION AND FINISH	DESCRIPTION AND OPTIONS	LAMPS	BALLAST(S)	VOLTAGE/LOAD	APPROVED MANUFACTURER(S)
C1				4" DIA. CYLINDER DOWNLIGHT				
EM				DUAL-HEAD EMERGENCY FIXTURE				
P1				SINGLE-HEAD POLE-MOUNTED AREA LIGHT FIXTURE				
P2				DUAL-HEAD POLE-MOUNTED AREA LIGHT FIXTURE				
P3				SINGLE-HEAD POLE-MOUNTED AREA LIGHT FIXTURE				
R1				4" DIA. RECESSED DOWNLIGHT				
R2				2'X4' RECESSED TROFFER				
R3				2'X2' RECESSED TROFFER				
R4-4				4' RECESSED LINEAR SLOT FIXTURE				
S1				UTILITY STRIP FIXTURE				
S2-4				4' SUSPENDED ARCHITECTURAL LINEAR FIXTURE				
S2-13				13' SUSPENDED ARCHITECTURAL LINEAR FIXTURE				
S2-16				16' SUSPENDED ARCHITECTURAL LINEAR FIXTURE				
S2-26				26' SUSPENDED ARCHITECTURAL LINEAR FIXTURE				
S2-44				44' SUSPENDED ARCHITECTURAL LINEAR FIXTURE				
X1				WALL-MOUNT SINGLE-FACE EXIT SIGN				
X2				SUSPENDED DOUBLE-FACE EXIT SIGN				
X3				SUSPENDED SINGLE-FACE EXIT SIGN				

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SCHEDULES - ELECTRICAL

E601

Issue Date

22150

MOTOR SCHEDULE

MARK	NAMEPLATE	ROOM NUMBER	LOCATION	ELECTRICAL DATA						STARTER										DISCONNECT MEANS												CONTROL				FEEDER				
				LOAD			VOLTAGE			TYPE						LOCATION				TYPE						LOCATION														
				HORSEPOWER (HP)	MCA (KVA)	MOCP	120V-1PH	208V-1PH	208V-3PH	NEMA SIZE	MANUAL	MAGNETIC	BUILT-IN MOTOR O/L	2-SPEED	VFD	NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	ROOM NUMBER	FURNISHED BY	DISC SWITCH	MANUAL MOTOR STARTER	RECEPTACLE	FEEDER SWITCH OR BREAKER	NEMA TYPE	DISC SIZE	FUSE SIZE	NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	PANELBOARD	INTEGRAL WITH VFD	FURNISHED BY	INTERLOCK WITH MOTOR	MANUAL AT STARTER	INTEGRAL WITH EQUIPMENT	FURNISHED BY	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	SEE CODED NOTE
AC-1	SPLIT SYSTEM INDOOR UNIT	-	IT ROOMS	-	(5.2)	30		●		-		●					●		ES	●				1	30	-	●				EC			●	HC	2	10	10	.75	1,2
ACCU-1	SPLIT SYSTEM OUTDOOR UNIT	-	IT ROOMS																																					
BS-1	BRANCH SELECTOR BOX	-	-																																					
BS-2	BRANCH SELECTOR BOX	-	-																																					
DOAS-1	DEDICATED OUTDOOR AIR SYSTEM	-	ROOF	-	(2.0)	20		●		-		●					●		ES	●				3R	30	-	●				EC			●	HC	2	10	10	.75	1
EBH-1	ELECTRIC BASEBOARD HEATER	-	-	-	(8.4)	60		●		-		●					●		ES	●				1	60	-	●				EC			●	HC	2	8	10	.75	1,2
EBH-2	ELECTRIC BASEBOARD HEATER	-	-	-	(8.4)																																			
ECH-1	CABINT UNIT HEATER	-	-	-																																				
EF-1	EXHAUST FAN	-	ROOF	-	(2.4)	25		●		-		●					●		ES	●				3R	30	-	●				EC			●	HC	2	10	10	.75	1
EF-2	EXHAUST FAN	-	ROOF																																					
GWH-1	ELECTRIC WATER HEATER	-	JANITOR	-																																				
FC-01	VRF FAN COIL UNIT	-	-	-	(2.8)	25		●		-		●					●		ES	●				3R	30	-	●				EC			●	HC	2	10	10	.75	1
FC-02	VRF FAN COIL UNIT	-	-																																					
FC-03	VRF FAN COIL UNIT	-	-																																					
FC-04	VRF FAN COIL UNIT	-	-																																					
FC-05	VRF FAN COIL UNIT	-	-																																					
FC-06	VRF FAN COIL UNIT	-	-																																					
FC-07	VRF FAN COIL UNIT	-	-																																					
FC-08	VRF FAN COIL UNIT	-	-																																					
FC-09	VRF FAN COIL UNIT	-	-																																					
FC-10	VRF FAN COIL UNIT	-	-																																					
FC-11	VRF FAN COIL UNIT	-	-																																					
FC-12	VRF FAN COIL UNIT	-	-																																					
FC-13	VRF FAN COIL UNIT	-	-																																					
HRU-1	VRF HEAT PUMP	-	ROOF	-	(5.3)	50		●		-		●					●		ES	●				3R	60	50	●				EC			●	HC	2	8	10	.75	1
HRU-2	VRF HEAT PUMP	-	ROOF	-	(5.3)	50		●		-		●					●		ES	●				3R	60	50	●				EC			●	HC	2	8	10	.75	1

EC - ELECTRICAL CONTRACTOR; ES - EQUPMENT SUPPLIER; HC - HVAC CONTRACTOR; PC - PLUMBING CONTRACTOR.

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NOT FOR CONSTRUCTION

SCHEDULES - ELECTRICAL

E602

Issue Date

22150

Panel: P1

Location: MECHANICAL 111 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 1 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
	Total Load:			0.0 kVA	0.0 kVA	0.0 kVA				
	Total...			0 A	0 A	0 A				

Conn. Load:	Demand Load:	Demand...
0.0 kVA	0.0 kVA	0 A

Panel: P2

Location: MECHANICAL 111 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 1 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
	Total Load:			0.0 kVA	0.0 kVA	0.0 kVA				
	Total...			0 A	0 A	0 A				

Conn. Load:	Demand Load:	Demand...
0.0 kVA	0.0 kVA	0 A

Panel: M1

Location: MECHANICAL 111 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 1 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
	Total Load:			0.0 kVA	0.0 kVA	0.0 kVA				
	Total...			0 A	0 A	0 A				

Conn. Load:	Demand Load:	Demand...
0.0 kVA	0.0 kVA	0 A

Panel: L1

Location: MECHANICAL 111 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 1 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
	Total Load:			0.0 kVA	0.0 kVA	0.0 kVA				
	Total...			0 A	0 A	0 A				

Conn. Load:	Demand Load:	Demand...
0.0 kVA	0.0 kVA	0 A

Panel: EV

Location: MECHANICAL 111 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 1 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1										2
3										4
5										6
7										8
9										10
11										12
	Total Load:			0.0 kVA	0.0 kVA	0.0 kVA				
	Total...			0 A	0 A	0 A				

Conn. Load:	Demand Load:	Demand...
0.0 kVA	0.0 kVA	0 A

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Drawing Issue Dates

Schematic Design Plus Submittal
9/28/2023

Design Development Submittal
11/2/2023

Revision Schedule

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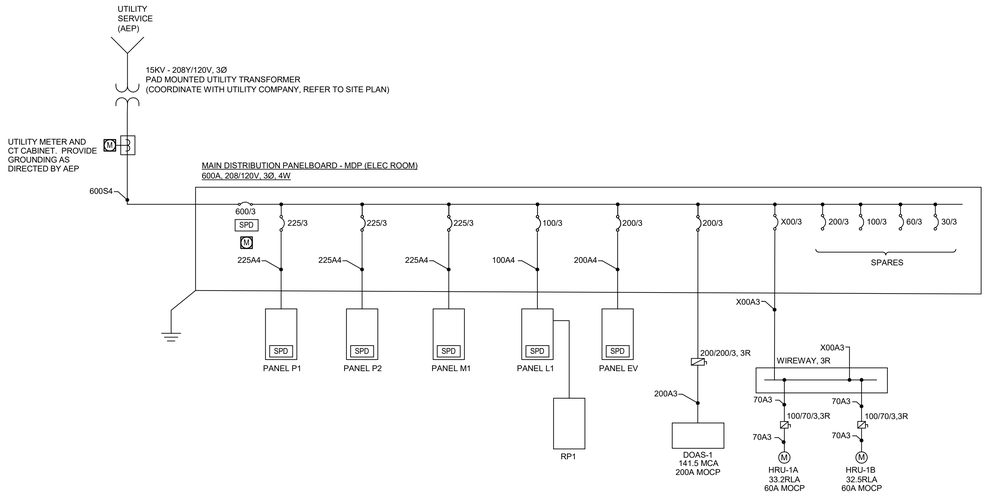
SCHEDULES - ELECTRICAL

E603

Issue Date

22150



1 ELECTRICAL ONE-LINE DIAGRAM

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DIAGRAMS -
ELECTRICAL

E701

Issue Date

22150

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPLIFIER
AUTO	AUTOMATIC
A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BB	BACKBONE
BC	BONDING CONDUCTOR
BGP	BORDER GATEWAY PROTOCOL
CCTV	CLOSED CIRCUIT TELEVISION
C	CEILING MOUNTED
CMP	COMMUNICATIONS PLENUM
CMR	COMMUNICATIONS RISER
CU	COPPER
DIA	DIAMETER
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
ER	EQUIPMENT ROOM (MDF)
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FT	FEET
GC	GENERAL TRADES CONTRACTOR
GND	GROUND
IN	INCHES
IP	INTERNET PROTCOL
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
M	METER
MC	MECHANICAL CONTRACTOR
MCC	MAIN CROSS CONNECT
MFGR	MANUFACTURER
MH	MANHOLE
MHZ	MEGAHERTZ
MMF	MULTIMODE FIBER
mm	MILLIMETER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
PA	PUBLIC ANNOUNCEMENT
P/L	PROPERTY LINE
PLE	PLENUM
POE	POWER OVER ETHERNET
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
REV	REVISION
RM	ROOM
S	STRAND
SFP	SMALL FORM-FACTOR PLUGGABLE
SMF	SINGLE MODE FIBER
SP	SERVICE PROVIDER
TBBC	TELECOMMUNICATIONS BACKBONE BONDING CONDUCTOR
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOM ROOM (IDF)
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLTS
WAN	WIDE ARE NETWORK
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WM	WALL MOUNTED
WP	WEATHERPROOF

TELECOM SYMBOLS	TELECOM REQUIREMENTS	PATHWAY REQUIREMENTS
W	SINGLE-PORT WALL DATA OUTLET MOUNTED AT 44" AFF, UNO.	SINGLE GANG, ONE-PORT FACEPLATE. PROVIDE ONE CAT6 CABLE, TERMINATED ON PATCH PANEL IN TELECOM ROOM.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING, CABLE TRAY OR TELECOM ROOM.
	WORKSTATION WALL OUTLET MOUNTED AT 18"AFF, UNO.	SINGLE GANG, TWO-PORT FACEPLATE. PROVIDE TWO CAT6 CABLES, TERMINATED ON PATCH PANEL IN TELECOM ROOM.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING, CABLE TRAY OR TELECOM ROOM.
FB X	RECESSED WORKSTATION FLOOR OUTLET.	SINGLE GANG, SIX-PORT FACEPLATE. 'X' SUB-SCRIP = NUMBER OF DATA PORTS. PROVIDE SAME NUMBER OF CAT6 CABLES AS SUP-SCRIP NUMBER, TERMINATED ON PATCH PANEL IN TELECOM ROOM.	MULTI-SERVICE POWER/DATA FLOOR BOX. (1) 1" CONDUIT FOR POWER AND (1) 1" FOR DATA FROM BOX TO ABOVE ACCESSIBLE CEILING, CABLE TRAY OR TELECOM ROOM. SEE DIVISION 26 FOR BOX INFORMATION.
H	WORKSTATION WALL OUTLET WITH (1) HDMI JACK AND (1) DATA PORT , MOUNTED AT 18"AFF, UNO.	SINGLE GANG FACEPLATE. PROVIDE SINGLE HDMI FEMALE PORT AND ONE DATA PORT. PROVIDE (1) HDMI CABLE FROM WORKSTATION WALL OUTLET TO LOCAL TV OUTLET. PROVIDE (1) CAT6 CABLE TO TR PATCH PANEL.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING. (1) 1" AND (1) 1-1/2" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
TV	WALL-MOUNTED TV OUTLET WITH (1) DATA AND (1) HDMI JACK. OUTLET MOUNTED AT 60" AFF, UON.	PROVIDE ONE CAT6 CABLE FROM TV OUTLET TO TELECOM ROOM PATCH PANEL, EXTEND AND TERMINATE HDMI CABLE FROM FLOOR OUTLET OR WORKSTATION OUTLET. SEE SPECIFICATION FOR WHEN SHIELDED CAT6 IS REQUIRED FOR HDMI EXTENSION.	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING. (1) 1" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING AND (1) 1-1/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING, OR TO FLOOR BOX.
	DATA OUTLET FOR OWNER-PROVIDED WIRELESS ACCESS POINT, CEILING MOUNTED. W = WALL MOUNTED.	PROVIDE ONE CAT6A CABLE, TERMINATED ON CAT6A JACK IN PATCH PANEL AND INSIDE DATA OUTLET AT WAP. PROVIDE EXTRA 20' COIL OF CABLE AND ONE 12-INCH PATCH CORD AT FINAL WAP LOCATION.	4-11/16" SQUARE, 2.125" DEEP BOX WITH A 3" ROUND PLASTER RING MOUNTED FLUSH TO THE CEILING.
SP	SPEAKER, FLUSH MOUNTED.	PROVIDE CABLING AND CONNECTOR PER SPECIFICATION.	4-11/16" SQUARE, 2.125" DEEP BOX.3/4"C TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
SP	LOCAL SPEAKER, SUFACE MOUNTED.	PROVIDE CABLING AND CONNECTOR PER SPECIFICATION.	4-11/16" SQUARE, 2.125" DEEP BOX.3/4"C TO NEW, SPEAKER OR TO A/V EQUIPMENT CABINET.
PA	PA SPEAKER, SURFACE MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2.125" DEEP BOX.3/4"C TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
PA	PA SPEAKER, FLUSH MOUNTED.	PROVIDE SPEAKER AND CABLING PER SPECIFICATION.	4-11/16" SQUARE, 2.125" DEEP BOX.3/4"C TO NEXT SPEAKER, TO CABLE TRAY OR TO TELECOM ROOM.
	RECESSED CEILING MOUNTED DATA OUTLET.	PROVIDE ONE CAT6 CABLE, TERMINATED ON CAT6 JACK IN PATCH PANEL AND INSIDE DATA OUTLET. PROVIDE EXTRA 10' COIL OF CABLE AND ONE 12-INCH PATCH CORD AT FINAL DEVICE LOCATION.	4-11/16" SQUARE, 2.125" DEEP BOX WITH A 3" ROUND PLASTER RING MOUNTED FLUSH TO THE CEILING.

NOTE: NOT ALL SYMBOLS MAY BE USED.

SECURITY SYMBOLS	PATHWAY REQUIREMENTS
VIDEO SURVEILLANCE CAMERA '180' = DUAL LENS CAMERA '360' = QUAD LENS CAMERA 'D' = DOME LENS CAMERA	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. PROVIDE CAMERA, CAT6 CABLE AND "BISCUIT" OUTLET.
A ALARM HORN	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
CR CARD READER	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. 48" AFF. 'KP' = WITH KEYPAD
DC DOOR CONTACT	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
GB GLASS BREAK SENSOR	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
MD MOTION DETECTOR	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
MS CCTV MONITOR STATION	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING.
* PUSH BUTTON - PANIC	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
LD * PUSH BUTTON - LOCK DOWN	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 3/4" CONDUIT INSTALLED TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
I INTERCOM - STATION	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO TELECOM RACK.
D DOOR BELL	4-11/16" SQUARE, 2-1/8" DEEP BOX WITH A SINGLE GANG PLASTER RING AND 1" CONDUIT INSTALLED TO TELECOM RACK.

NOTE: NOT ALL SYMBOLS MAY BE USED.

SECURITY KEYNOTES:

A. PROVIDE CAT6 CABLE FROM CARD READER TO NEAREST ER/TR AND LEAVE WITH A 10' SERVICE LOOP COILED AT THE BACKBOARD SPACE RESERVED FOR THE OWNERS 'S2' CONTROL UNITS.

B. CONTRACTOR SHALL PLAN FOR ONE PRE-INSTALLATION MEETING WITH OWNER, DOOR HARDWARE SUPPLIER AND ARCHITECT TO REVIEW LOCATIONS AND INSTALLATION REQUIREMENTS.

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GENERAL INFORMATION - TECHNOLOGY

T001

Issue Date

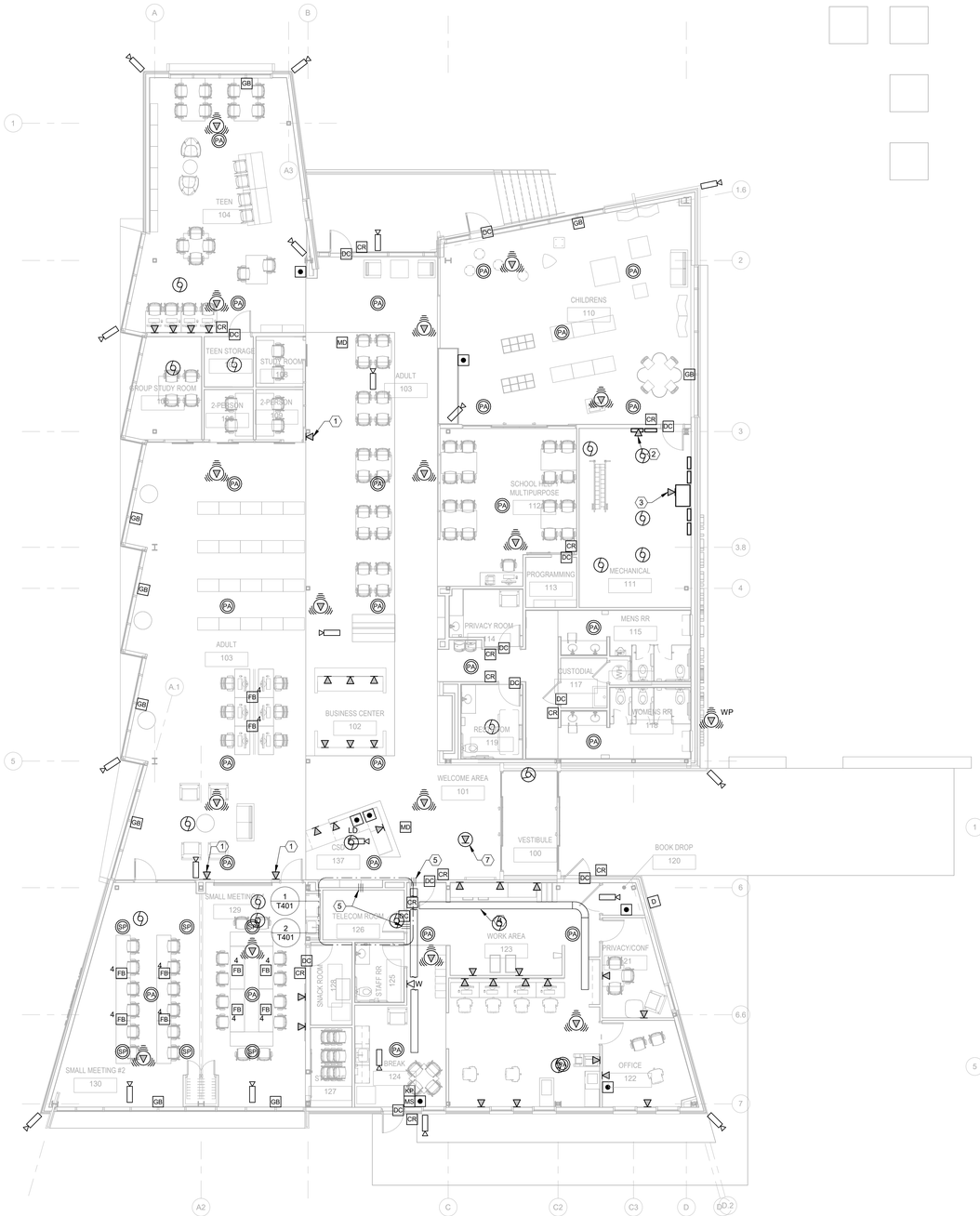
22150

GENERAL SHEET NOTES

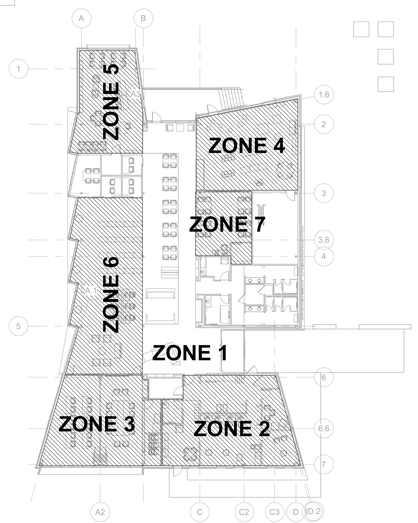
1. COORDINATE ALL ROUGH-IN AND PATHWAY REQUIREMENTS FOR DEVICES IN CASEWORK, AND FURNITURE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ROUGH-IN.
2. COORDINATE ROUGH-IN REQUIREMENTSS AND LOCATIONS FOR ALL A/V DEVICE WITH CML'S A/V VENDOR.
3. COORDINATE FLLOR BOX LOCATIONS WITH ARCHITECTURAL FURNITURE AND ELECTRICAL POWER DRAWINGS PRIOR TO ROUGH-IN.
4. ALL DATA CABLES BE ROUTED IN CABLE TRAY, J-HOOKS, OR CONDUIT. CABLES SHALL BE ROUTED INCONSPICOUSLY, PARRALLEL TO BUILDING STRUCTURES AND DUCTWORK ETC.
5. PROVIDE SEALS AROUND ALL CONDUITS AND ALL TELECOMMUNICATIONS PENETRATIONS.
6. ALL DATA CABLING SHALL BE HOMERUN TO TELECOM ROOM 126. PROVIDE PATCH PANELS TO SERVE QUANTITTIES OF OUTLETS SHOWN ON PLANS PLUS 20% SPARE.

SHEET KEYNOTES

1. PROVIDE SINGLE PORT DATA OUTLET MOUNTED AT 44" AFF FOR ROOM SCHEDULING TABLET. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE SINGLE PORT DATA OUTLET FOR BAS PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE SINGLE PORT DATA OUTLET FOR MAIN ELECTRICAL DISTRUBITION PANEL SMART METERING. COORDINATE EXACT LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
4. PROVIDE 12" W X 4" D WIRE MESH CABLE TRAY MOUNTED AT 10'-7" AFF.
5. PROVIDE (3) 4" CONDUIT SLEEVES FOR HORIZONTAL CABLING THROUGH WALL.
6. 4-GANG FLOOR BOX FOR POWER AND DATA TO CONNECT TO SYSTEMS FURNITURE. PROVIDE (1) CAT6 PATCH CORD TO EACH WORKSTATION. COORDINATE WITH FURNITURE PLANS AND ELECTRICAL PLANS FOR MORE INFORMATION.
7. PROVIDE DUAL PORT CEILING DATA OUTLET. ONE PORT TO SERVE PEOPLE COUNTER SYSTEM, THE OTHER PORT FOR OWNER PROVIDED THEFT DETERRENT SYSTEM.



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



2 FIRST FLOOR PLAN - PAGING ZONES
3/64" = 1'-0"

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FIRST FLOOR PLAN - TECHNOLOGY

T101

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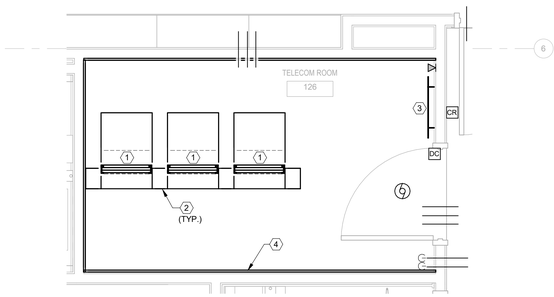
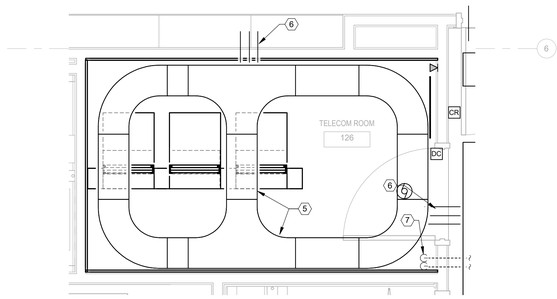


1 ENLARGED FLOOR PLAN - TECHNOLOGY EQUIPMENT
1/2" = 1'-0"



2 ENLARGED FLOOR PLAN - TECHNOLOGY PATHWAYS
1/2" = 1'-0"

3 DETAIL - TELECOM ROOM RACK ELEVATION
NTS

GENERAL SHEET NOTES

1. -

SHEET KEYNOTES

1. PROVIDE 84" H X 20" W X 30" D 4-POST RACK WITH EIA STANDARD 19" RACK RAILS. 45 RACK UNITS OF MOUNTING SPACE.
2. 6" W X 12" D X 84" H VERTICAL WIRE MANAGER ON EACH SIDE OF RACK.
3. PROVIDE 24" L X 4" H TECHNOLOGY MAIN GROUNDING BUSBAR.
4. 3/4" THICK 4' X 8' FIRE RATED TECHNOLOGY PLYWOOD BACKBOARD MOUNTED 18" AFF.
5. 12" W LADDER RACK CABLE TRACY FOR TECHNOLOGY CABLING, MOUNTED AT 10'-0" AFF.
6. (3) 4" CONDUIT SLEEVES THROUGH WALL FOR TECHNOLOGY CABLING THROUGH WALL, MOUNTED AT THE SAME HEIGHT AS THE LOCAL CABLE TRAY.
7. (2) 4" CONDUITS STUBBED UP INTO TELECOM ROOM FOR TECHNOLOGY SERVICE CABLING. REFER TO ELECTRICAL SITE PLAN FOR CONITUATION OF SERVICE CONDUITS.

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ENLARGED FLOOR PLAN - TECHNOLOGY

T401

T401

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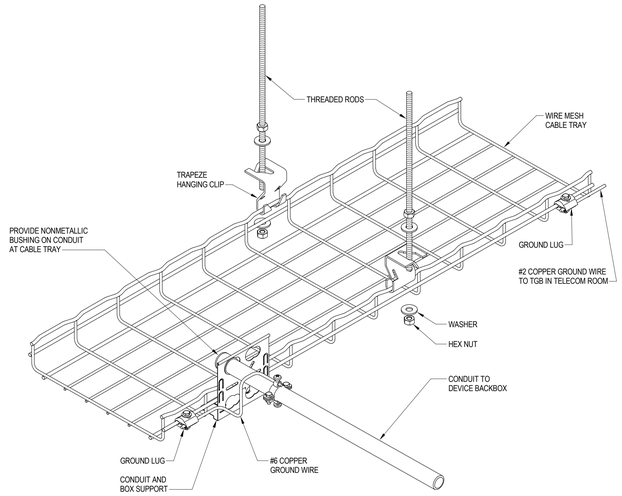
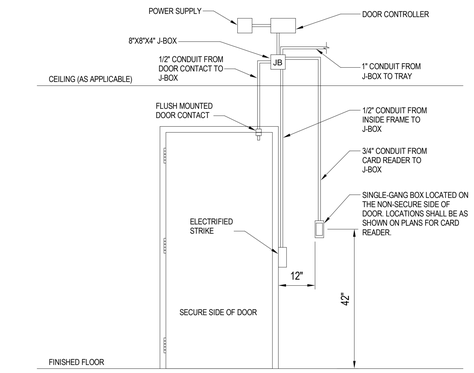
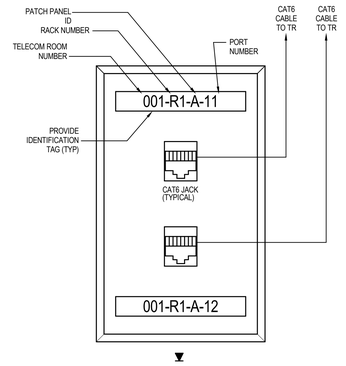
22150



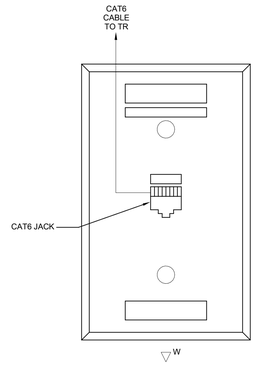
9 DETAIL - CABLE TRAY MOUNTING
NTS



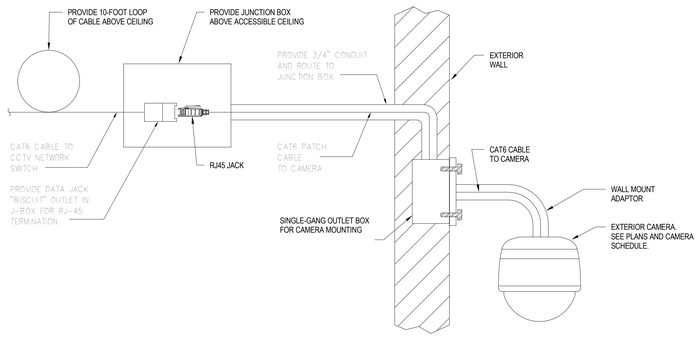
6 DETAIL - ACS DOOR DEVICES
NTS



2 DETAIL - GENERAL TECHNOLOGY FACEPLATE
NTS



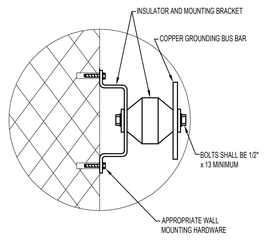
8 DETAIL - WALL PHONE DATA FACEPLATE
NTS



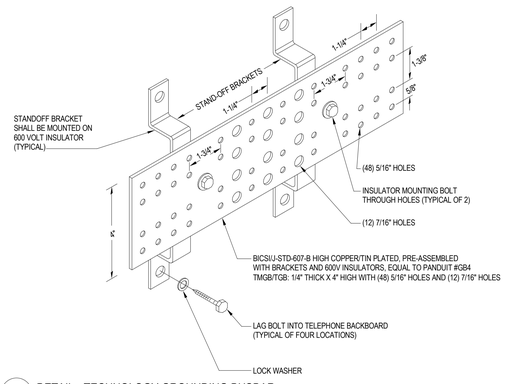
10 DETAIL - CCTV CAMERA MOUNTING
NTS

EXTERIOR WALL MOUNT

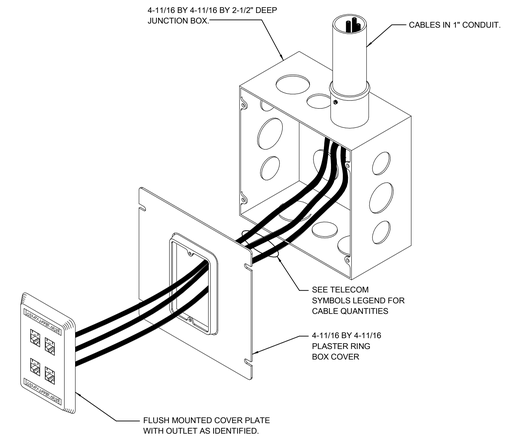
3 WIRELESS ACCESS POINT OUTLET
NTS



4 DETAIL - BUS BAR MOUNTING
NTS



5 DETAIL - TECHNOLOGY GROUNDING BUSBAR
NTS



7 DETAIL - SINGLE GANG MOUNTING
NTS

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Drawing Issue Dates

Schematic Design Plus Submittal 9/28/2023

Design Development Submittal 11/2/2023

Revision Schedule		
No.	Description	Date

CML Marion Franklin Branch

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Columbus, Ohio 43207

NOT FOR CONSTRUCTION

DETAILS - TECHNOLOGY

T501

Issue Date

22150