Office Renovation and Addition

City of Huber Heights Tax, Finance & Water Departments

6131 Taylorsville Road, Huber Heights, OH 45424

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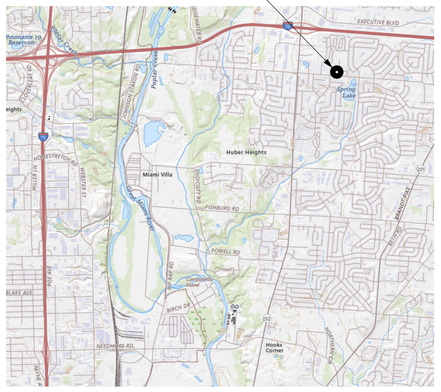
VICINITY MAP

PROJECT LOCATION



CODE INFORMATION (OBC 2024)

2024 OHIO EXISTING BUILDING CODE (OEBC)

COMPLIANCE METHOD:
SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD
ACCORDING TO OEBC SECTIONS 302-309 AND CHAPTER 5.

2024 OHIO BUILDING CODE (OBC)

PROJECT DESCRIPTION

PROJECT CONSISTS OF RENOVATION AND ADDITION TO THE EXISTING CITY HALL OFFICES AND COUNCIL CHAMBERS TO CREATE NEW OFFICES FOR TAX, FINANCE AND WATER DEPARTMENTS. THE NEW ADDITION SHALL INCLUDE A MECHANICAL AND FILE STORAGE SPACE.

USE GROUP CLASSIFICATION

OBC (302) USE GROUP	= B, A-3 (EXISTING) = B (PROPOSED)

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE	= 5B (EXISTING - NO CHANGE)

HEIGHT AND AREA LIMITATIONS

EXISTING FLOOR AREA	FIRST FLOOR:	6,562 GSF
NEW ADDITIONS	FIRST FLOOR:	1,327 GSF (MECH/STRG) 151 GSF (VESTIBULE)
TOTAL =	FIRST FLOOR:	8,040 GSF
	SECOND FLOOR:	3,302 GSF (NO CHANGE)
ALLOWABLE	=	27,000 SF PER FLOOR
ALLOWABLE HEIGHT	=	60 FT (EXISTING 35 FT)
ALLOWABLE STORIES	=	3 (EXISTING 2 STORIES)

FIRE PROTECTION

BUILDING DESCRIPTION : FULLY SPRINKLERED (INCLUDING ATTIC - EXISTING - NO CHANGE)

* DURING PHASE 1 CONSTRUCTION, THE FIRE SUPPRESSION SYSTEM WILL BE DISABLED DUE TO RECONFIGURATION OF FIRE SERVICE AT THE NEW ADDITION. PER CH 5, HEIGHT AND AREA OF BUILDING WOULD NOT REQUIRE FIRE SUPPRESSION. NON-SUPPRESSED ALLOWS FOR 40', 2 STORY, 9,000 SF PER FLOOR.

THE OCCUPANT LOAD FOR THE 2ND FLOOR WOULD BE LESS THAN 30, THEREFORE THE CORRIDORS WOULD NOT REQUIRE A RATING.

OCCUPANT LOAD

OBC (1004) ALLOWABLE OCCUPANT LOAD

OFFICE AREAS	10,145 GSF / 150 SF	= 68
MECH / STORAGE ADDITION	1,197 GSF / 300 SF	= 4
	TOTAL OCCUPANTS	= 72

OTHER CODE PROVISIONS

OBC (T601) FIRE RESISTANCE RATINGS:

PRIMARY STRUCTURAL FRAME =	0 HRS
EXTERIOR BEARING WALLS =	0 HRS
INTERIOR BEARING WALLS =	0 HRS
EXTERIOR NON-LOAD BEARING WALLS =	0 HRS
INTERIOR NON-LOAD BEARING WALLS =	0 HRS
FLOOR CONSTRUCTION INCLUDING BEAMS =	0 HRS
ROOF CONSTRUCTION INCLUDING BEAMS =	0 HRS

EXISTING STAIRWELLS AND ELEVATOR HOISTWAY ARE 1-HOUR RATED CONSTRUCTION.

AT STAIRWELL S1 AND ELEVATOR HOISTWAY, THE NEW VESTIBULE WILL PLACE THE EXISTING EXTERIOR WALL WITHIN THE INTERIOR OF THE BUILDING. THE EXISTING INTERIOR STAIRWELL AND HOISTWAY SHAFT CONSTRUCTION IS 1-HR RATED 8" AND 12" CMU CONSTRUCTION. PER OBC TABLE 721.1(2) RATED FIRE-RESISTANCE FOR VARIOUS WALLS, CONCRETE MASONRY UNIT ITEM NUMBER 3.1.2, THE EXISTING 8" CMU BLOCK MEETS WITH THE REQUIREMENTS FOR 1-HR RATING. EXISTING DOOR OPENING SHALL RECEIVE NEW RATED DOOR. ANY EXISTING OPENINGS / PENETRATIONS SHALL BE SEALED ACCORDINGLY.

ENERGY CODE NOTES

ENERGY CODE: 2019 ASHRAE 90.1

PRESCRIPTIVE BUILDING ENVELOPE DESIGN PER TABLE 5.5-5

ROOFS:	
INSUL ENTIRELY ABOVE DECK	R-30c.i. MIN
WALLS ABOVE GRADE:	
STEEL FRAMED	R-13 + R-10c.i. MIN
SLAB ON GRADE:	
PERIMETER INSULATION	R-15, 24" VERT MIN
SOLID DOORS	
SWINGING	U-0.370 MAX
WINDOWS	
FIXED	U-0.36, 0.38 SHGC MAX
OPERABLE	U-0.45, 0.33 SHGC MAX
ENTRANCE DOORS	U-0.63, 0.33 SHGC MAX

PHASING NOTES

PHASE 1
- COMPLETE DEMOLITION OF THE FIRST FLOOR INTERIORS. EXTERIOR PERIMETER GYP BD SHALL REMAIN.
- FLOOR FINISHES SHALL BE REMOVED DOWN TO EXISTING SLAB ON GRADE.
- CEILING FINISHES SHALL BE REMOVED TO EXPOSE UNDERSIDE OF FLOOR DECK / ROOF TRUSS SHEATHING ABOVE.
- INTERIOR FIT OUT OF THE FIRST FLOOR AND NEW ADDITIONS SHALL BE COMPLETED IN PHASE 1.
- SECOND FLOOR SHALL REMAIN OCCUPIED THROUGHOUT PHASE 1 CONSTRUCTION. TEMPORARY UTILITY CONNECTIONS SHALL BE PROVIDED TO MAINTAIN RESTROOMS.
- MAINTAIN EMPLOYEE ACCESS FROM NORTH PARKING AREA TO STAIR S1 AND EXISTING ELEVATOR. PROVIDE TEMPORARY PARTITIONS, COVERED ENTRY AS NECESSARY. COORDINATE TEMPORARY CLOSURE OF ENTRANCE WITH OWNER.
- COMPLETE SITE IMPROVEMENTS ON SOUTH SIDE OF BUILDING.

PHASE 2
- UPON COMPLETION OF PHASE 1, OCCUPANTS FROM THE SECOND FLOOR SHALL TEMPORARILY OCCUPY THE FIRST FLOOR.
- COMPLETE DEMOLITION OF THE SECOND FLOOR INTERIORS. EXTERIOR PERIMETER GYP BD SHALL REMAIN.
- FLOOR FINISHES SHALL BE REMOVED DOWN TO EXISTING CONCRETE DECK. CEILING FINISHES SHALL BE REMOVED TO EXPOSE UNDERSIDE OF ROOF TRUSS SHEATHING ABOVE.
- INTERIOR FIT OUT OF THE SECOND FLOOR SHALL BE COMPLETED IN PHASE 2. - COMPLETE SITE IMPROVEMENTS ON NORTH SIDE OF BUILDING.

ALL PHASES - SWITCHOVER / DOWNTIME FOR SYSTEMS SERVING OCCUPANTS SHALL BE MINIMIZED DURING NORMAL BUSINESS HOURS. SYSTEM SHUTDOWNS SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.

MEANS OF EGRESS SHALL BE MAINTAINED WHEN BUILDING IS OCCUPIED.

ELEVATOR SHALL REMAIN IN OPERATION DURING PHASE 1.

ALTERNATES

ALTERNATE 1 - PROVIDE MASONRY / PREFIN LOUVER SCREEN WALL IN LIEU OF PREFIN LOUVER ONLY AT MECH EQUIPMENT ENCLOSURE.

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STATE OF OHIO TIMOTHY J. BEMENT 12400 REGISTERED ARCHITECT
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Expiration Date 12/31/2025

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ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DAW
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TITLE
COVER SHEET

SHEET NO.
G0.1

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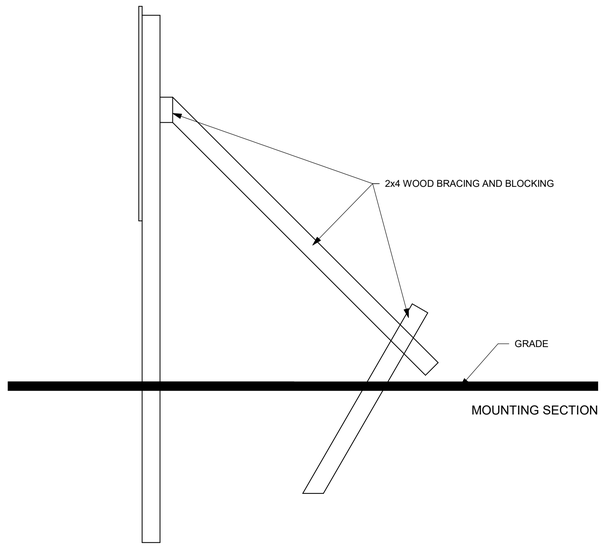
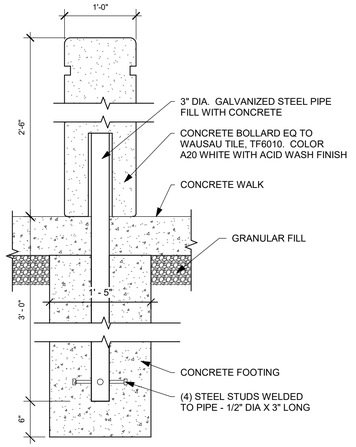


MOUNTING SECTION



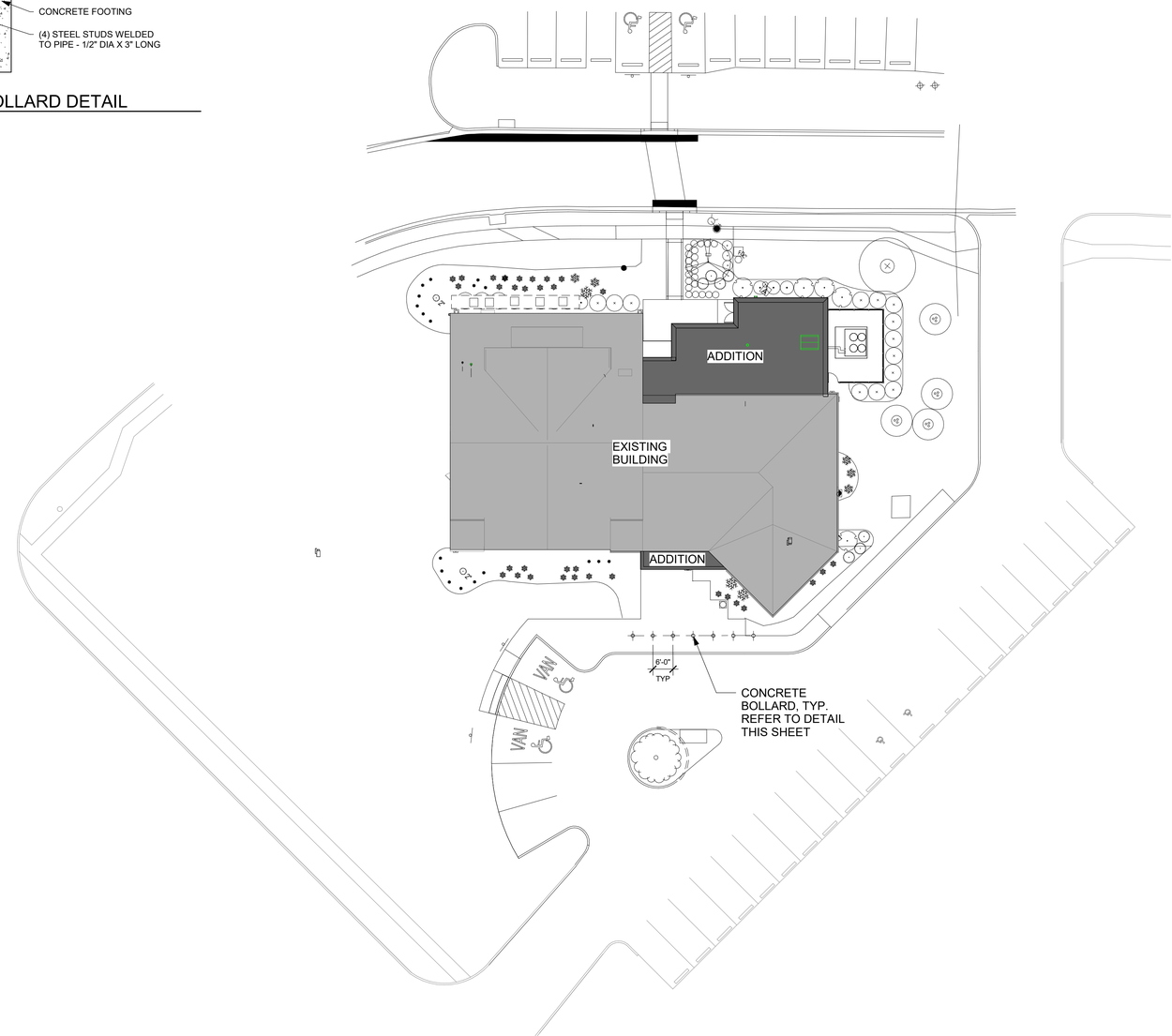
C3 CONCRETE BOLLARD DETAIL
1" = 1'-0"

CONSTRUCTION SIGN NOTES:

A. LEFT JUSTIFY "FUTURE SITE OF:"
B. CENTER JUSTIFY PROJECT DESCRIPTION AND LOGOS.
C. CENTER JUSTIFY APP ARCHITECTURE AND CONTRACTOR LOGO UNDER FIRE STATION IMAGE.
D. CONTRACTOR & APP ARCHITECTURE LOGOS TO BE SAME HEIGHT.
E. ALL LETTERS TO BE UPPER CASE VINYL
F. ALL LETTERS TO BE SOLID BLACK
G. COORDINATE LOCATION WITH OWNER
H. PAINT ALL POSTS, BRACING AND BLOCKING TO MATCH BACKGROUND COLOR
I. ALL LOGOS AND ARTWORK TO BE VINYL GRAPHICS. IMAGERY TO BE PROVIDED BY ARCHITECT.
J. SIGN TO BE REMOVED UPON CONSTRUCTION COMPLETION.

SIGN ELEVATION

F1 CONSTRUCTION SIGN
3/4" = 1'-0"



F3 SITE COORDINATION PLAN
1" = 20'-0"

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TITLE
SITE COORDINATION PLAN

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GENERAL NOTES

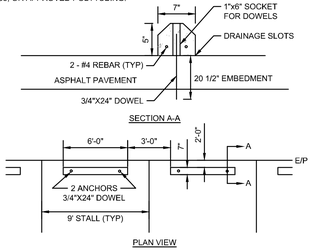
1. THE CITY OF HUBER HEIGHTS, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF HUBER HEIGHTS REQUIREMENTS, THE CITY OF HUBER HEIGHTS REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (8-1-1 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

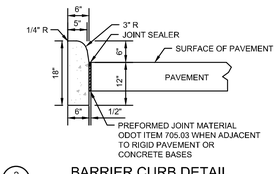
1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS-BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF HUBER HEIGHTS AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

UTILITY NOTES

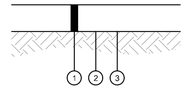
1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN. STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES. CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
18. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
19. ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
20. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
21. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
23. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
24. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE; AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
25. SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUBER HEIGHTS. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE CITY OF HUBER HEIGHTS AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
26. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
27. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER.
28. WATERLINE 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI, AWWA C151 OR PVC AWWA C900, DR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24. WATERLINE 2 INCHES AND UNDER TO BE TYPE "K" SOFT COPPER TUBING, ASTM B 88, OR APPROVED POLYTUBING.



PRECAST CONCRETE WHEEL STOP DETAIL
1 / C100
N.T.S.

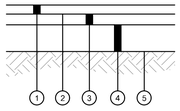


BARRIER CURB DETAIL
2 / C100
N.T.S.



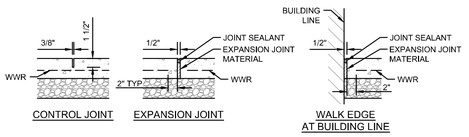
1. 6" ODOT ITEM 304 AGGREGATE BASE
2. WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09 TYPE D
3. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

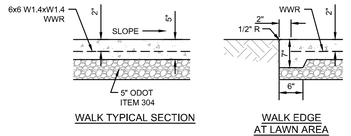
GRAVEL PAVEMENT DETAIL
3 / C100
N.T.S.



1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL
4 / C100
N.T.S.

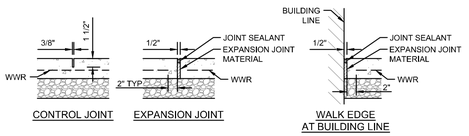


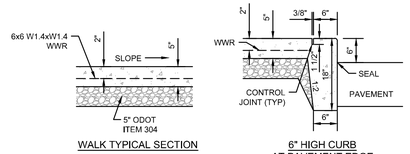


NOTES:

1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES. WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK DETAIL
5 / C100
N.T.S.





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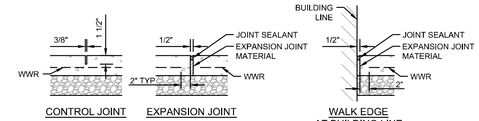
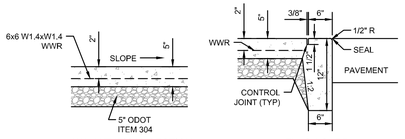
EXTERIOR CONCRETE SLAB WALK WITH INTEGRAL CURB DETAIL
6 / C100
N.T.S.





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5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK WITH FLUSH CURB DETAIL
7 / C100
N.T.S.

NOTES:

GENERAL

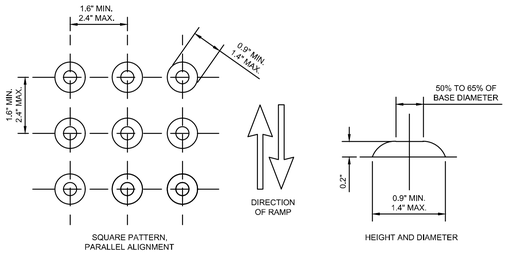
1. DETECTABLE WARNINGS ARE A DISTINCTIVE SURFACE PATTERN OF TRUNCATED DOMES WHICH ARE DETECTABLE BY CANE OR UNDERFOOT TO ALERT PEOPLE WITH VISION IMPAIRMENTS OF THEIR APPROACH TO STREETS AND HAZARDOUS DROP-OFFS.

PLACEMENT

2. DETECTABLE WARNINGS ARE TO BE INSTALLED AT ANY LOCATION WHERE PEDESTRIANS MIGHT CROSS PATHS WITH VEHICULAR TRAFFIC LANES, SUCH AS THE BASE OF CURB RAMPS OR AT BLENDED CURBS. A 24" STRIP OF DOMES IS TO BE INSTALLED FOR THE FULL WIDTH OF THE RAMP OR WALK.
3. THE DEPTH OF CONCRETE UNDERNEATH DETECTABLE WARNING PRODUCTS SHALL BE A MINIMUM OF 4".

PRODUCTS & COLORS

4. COLOR OF THE DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND RAMP. BLACK IS NOT AN ACCEPTABLE COLOR. APPROVED PRODUCTS AND GUIDANCE ON COLOR MAY BE FOUND ON THE ODOT OFFICE OF ROADWAY ENGINEERING SERVICE'S DETECTABLE WARNINGS APPROVED LIST. INSTALL PRODUCTS AS PER MANUFACTURER'S PRINTED INSTRUCTIONS.



DETECTABLE WARNINGS DETAIL
8 / C100
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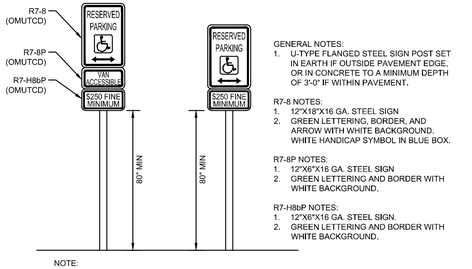

GENERAL NOTES:
1. U-TYPE FLANGED STEEL SIGN POST SET IN EARTH IF OUTSIDE PAVEMENT EDGE, OR IN CONCRETE TO A MINIMUM DEPTH OF 3'-0" IF WITHIN PAVEMENT.

R7-8 NOTES:
1. 12"X18"X16 GA. STEEL SIGN
2. GREEN LETTERING, BORDER, AND ARROW WITH WHITE BACKGROUND. WHITE HANDICAP SYMBOL IN BLUE BOX.

R7-8P NOTES:
1. 12"X6"X16 GA. STEEL SIGN
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

R7-H8bP NOTES:
1. 12"X6"X16 GA. STEEL SIGN.
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

NOTE:
1. ONE ACCESSIBLE PARKING SPACE FOR EVERY SIX OR FRACTION THERE OF SHALL BE DESIGNATED AS "VAN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS.
2. ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE

ACCESSIBLE PARKING SIGN DETAIL
9 / C100
NTS

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GENERAL NOTES & DETAILS

SHEET NO.
C100

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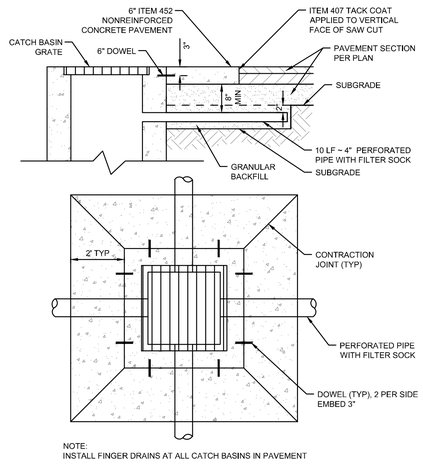
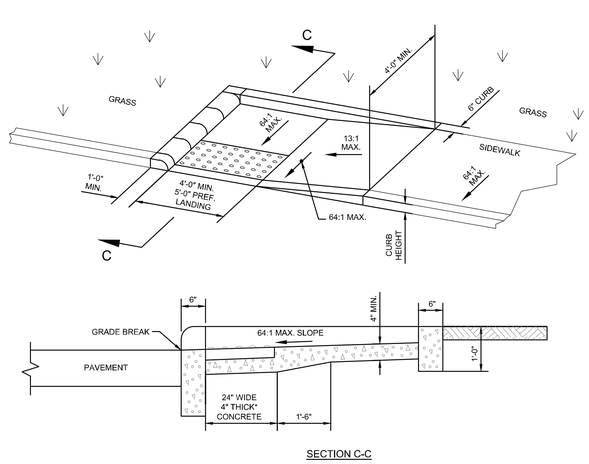


1 C101 FINGER DRAIN AND CATCH BASIN CONCRETE APRON DETAIL
N.T.S.



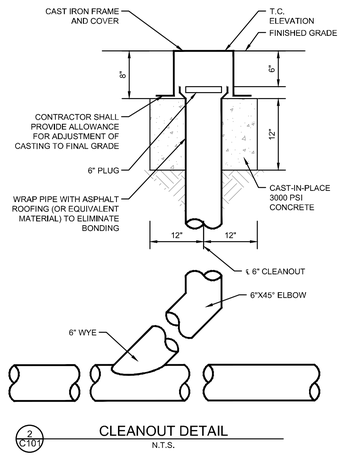
SECTION C-C

3 C101 CURB RAMP DETAIL - SINGLE SIDED PARALLEL
N.T.S.

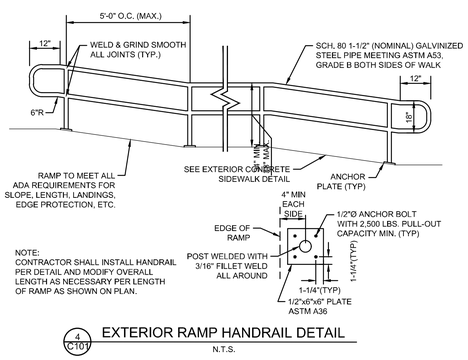
NOTES:

1. WHILE RAMPS MAY BE SKEWED TO THE CROSSWALK, THE ENTIRE LOWER LANDING AREA MUST FALL WITHIN THE CROSS WALK THAT THE RAMP SERVES AND CANNOT BE LOCATED IN THE TRAVELED LANE OF OPPOSING TRAFFIC.
2. THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITIONS SHALL BE 20:1 OR FLATTER.
3. THE BOTTOM EDGE OF THE RAMP SHALL CHANGE PLANES PERPENDICULAR TO THE LANDING.
4. THE EDGE OF THE CURB SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER AND SURFACE SLOPES THAT MEET GRADE BREAKS SHALL ALSO BE FLUSH.
5. RAMP LANDINGS SHALL BE 4' MIN. X 4' MIN. WITH A 64:1 OR FLATTER CROSS SLOPE AND RUNNING SLOPE.
6. **DETECTABLE WARNINGS:** INSTALL DETECTABLE WARNINGS ON EACH CURB RAMP WITH APPROVED MATERIALS, AS SHOWN IN SEPARATE DETAIL. INSTALL THESE PROPRIETY PRODUCTS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. **DRAINAGE:** CONTRACTOR IS TO ENSURE THE BASE OF EACH CONSTRUCTED CURB RAMP ALLOWS FOR PROPER DRAINAGE, WITHOUT EXCEEDING ALLOWABLE CROSS SLOPE OR RAMP SLOPES. VERTICAL CHANGE IN LEVEL EXCEEDING ¼" BETWEEN THE 1) PAVEMENT AND GUTTER, AND 2) GUTTER AND RAMP, ARE NOT ALLOWED.
8. **SURFACE TEXTURE:** TEXTURE CONCRETE SURFACES BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES TO BE ROUGHER THAN THE ADJACENT WALK.
9. **JOINTS:** PROVIDE EXPANSION JOINTS IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK. PROVIDE A ½" ITEM 705.03 EXPANSION JOINT FILLER AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALKS. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGES AND SLOPE CHANGES, AND DO NOT NECESSARILY INDICATE JOINT LINES.

*WHERE POSSIBLE, POUR RAMP AREA INTEGRAL WITH THE CURB, OTHERWISE USE 6" THICK WALK.



2 C101 CLEANOUT DETAIL
N.T.S.



4 C101 EXTERIOR RAMP HANDRAIL DETAIL
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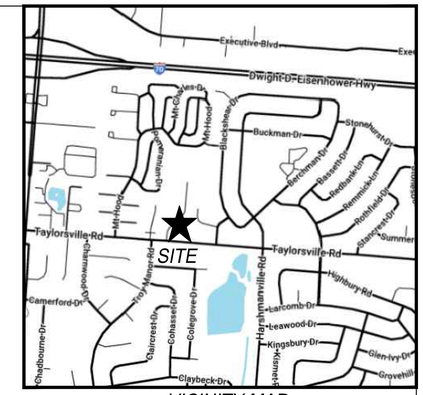
LEGEND:

- BENCHMARK
- CLEANOUT
- STORM MANHOLE
- CATCH BASIN
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- PULL BOX
- A/C UNIT
- LIGHT POLE
- LAMP POST
- TRANSFORMER
- GROUND LIGHT
- PHONE BOX
- GAS METER
- FIRE HYDRANT
- WATER VALVE
- FIRE DEPARTMENT CONNECTION
- WATER SPIGOT
- FENCE POST
- SINGLE POST SIGN
- HANDICAP
- W — W — WATER LINE
- UE — UE — UNDERGROUND ELECTRIC
- UCATV — UNDERGROUND CABLE
- UT — UT — UNDERGROUND TELEPHONE
- STORM SEWER
- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE



VICINITY MAP
N.T.S

NOTES:

1. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1' = 1200/3937 METERS)
2. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
3. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "OHDT" USING GEOID CONUS 18.
4. SITE BENCHMARK AS SHOWN HEREON.

0 10 20 40

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TITLE
SURVEY BASEMAP

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DEMOLITION LEGEND

- REMOVE CONCRETE
- REMOVE LANDSCAPING
- REMOVE ASPHALT
- REMOVE GRAVEL
- SAWCUT LINE
- REMOVE EXISTING TREE
- REMOVE EXISTING BUSH

CODED NOTES

1. REMOVE CURB AND GUTTER
2. REMOVE CURB
3. REMOVE AND SALVAGE SIGN. CONTRACTOR TO INSPECT AND CONFIRM SIGN.
4. REMOVE ELECTRIC BOX AND ASSOCIATED ELECTRIC UTILITY LINES
5. REMOVE GROUND MOUNTED AC UNITS
6. REMOVE CONCRETE PICNIC TABLE
7. REMOVE AND RELOCATE DOWNSPOUT
8. LIGHT POLE TO REMAIN
9. DOWNSPOUT TO REMAIN
10. REMOVE AND SALVAGE MEMORIAL PLAQUE. REFER TO LA PLANS FOR PROPOSED LOCATION
11. REMOVE AND SALVAGE PARKING BLOCK
12. REMOVE AND SALVAGE LANDSCAPING ROCK
13. EXISTING BENCH AND TRASH TO BE REMOVED AND REPLACED. REFER TO LA PLANS FOR PROPOSED LOCATION
14. CONCRETE PLANTERS TO BE SALVAGED AND RELOCATED. REFER TO LA PLANS FOR PROPOSED LOCATION
15. PAINTED MARKINGS TO BE REMOVED
16. CONCRETE STEPS TO BE REMOVED
17. CONTRACTOR TO REMOVE ADA STRIPING FROM EXISTING STALL NOT SHOWN IN SURVEY.
18. SANITARY CLEANOUT TO REMAIN
19. SPRINKLER TO REMAIN
20. EXISTING STRIPING TO REMAIN
21. CONCRETE PAD TO BE REMOVED
22. STORM PIPE TO BE REMOVED
23. RAISE OR REPLACE PLANTS AS NEEDED FOR PROPOSED GRADES SHOWN ON SHEET C602

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TITLE
DEMOLITION PLAN

SHEET NO.
C300

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PROPOSED LEGEND

- STORM SEWER CLEANOUT
- DOWNSPOUT
- GRAVEL MECHANICAL YARD. 6" DEEP ODOT 304 PER DETAIL 3/C100
- STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 4/C100
- EXISTING ASPHALT
- CONCRETE WALK PER DETAIL 5/C100
- DETECTABLE WARNING PER DETAIL 8/C100

CODED NOTES

1. CONCRETE WHEEL STOP FURNISHED BY SALVAGED WHEEL STOP. LOCATION PER DETAIL 1/C100
2. TRANSITION CURB HEIGHT FROM 6" TO FLUSH OVER 2 LF
3. BARRIER CURB PER DETAIL 2/C100
4. CATCH CURB AND GUTTER. SEE SHEET C600 FOR ELEVATIONS.
5. INTEGRAL CURB PER DETAIL 6/C100
6. FLUSH CURB PER DETAIL 7/C100
7. ADA PARKING SIGN PER DETAIL 9/C100
8. CURB RAMP DETAIL - SINGLE SIDED PARALLEL PER DETAIL 3/C101
9. EXTERIOR RAMP HANDRAIL PER DETAIL 4/C101
10. RESTORE STRIPING TO ORIGINAL CONDITION
11. SEE LANDSCAPE PLAN SHEET L1 FOR PLANTINGS
12. BASE BID TO PROVIDE LOUVER WALL AND ALTERNATE 1 TO PROVIDE A COMBINATION OF CMU/BRICK & LOUVER WALL. SEE ARCHITECTURAL PLANS.
13. CONCRETE PAD FOR MECHANICAL EQUIPMENT PER ARCHITECTURAL PLAN
14. CONCRETE PAD FOR DROP BOXES
15. ACCESS GATE FOR MECHANICAL EQUIPMENT. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. CONCRETE BOLLARDS. SEE ARCHITECTURAL PLANS FOR DETAILS.

EXISTING PARKING COUNT TABLE*

STANDARD SPACES	71
ADA SPACES	3

PROPOSED PARKING COUNT TABLE*

TOTAL SPACES AFTER CONSTRUCTION	70
TOTAL ADA SPACES AFTER CONSTRUCTION	4

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TITLE
LOCATION PLAN

SHEET NO.
C400

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PROPOSED LEGEND

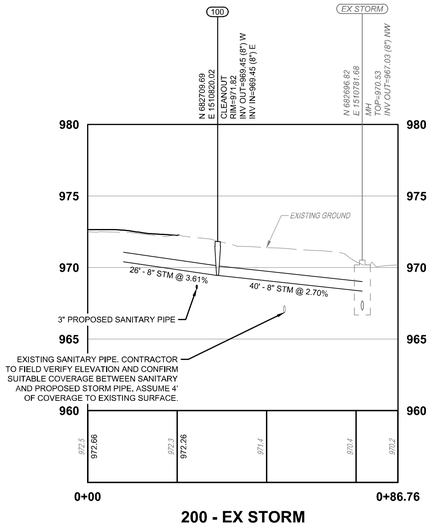
STM — STORM SEWER PIPE

CO — STORM SEWER CLEANOUT

DS — DOWNSPOUT

UTILITY PLAN CODED NOTES

1. CONNECT PROPOSED STORM PIPE TO EXISTING STORM STRUCTURE
2. PROPOSED 4" UNDERDRAIN PIPE AT 1.00% MIN. SLOPE. CONNECT TO EXISTING 4" STORM PIPE. CONTRACTOR TO FIELD VERIFY IF EXISTING STORM SEWER IS OF ADEQUATE DEPTH FOR CONNECTION.
3. PROPOSED DOWNSPOUTS TO TIE INTO EXISTING STORM LINE SHOWN PER RECORD. CONTRACTOR TO FIELD VERIFY INVERT AND LOCATION OF EXISTING STORM PIPE SHOWN PER RECORD AND NOTIFY ENGINEER IF UNFEASIBLE
4. PROPOSED 3" ROOF DRAINS TO TIE INTO EXISTING STORM LINE SHOWN PER RECORD. CONTRACTOR TO FIELD VERIFY INVERT AND LOCATION OF EXISTING STORM PIPE SHOWN PER RECORD AND NOTIFY ENGINEER IF UNFEASIBLE
5. PROPOSED 4" ROOF DRAIN TO TIE INTO EXISTING STORM LINE SHOWN PER RECORD. CONTRACTOR TO FIELD VERIFY INVERT AND LOCATION OF EXISTING STORM PIPE SHOWN PER RECORD AND NOTIFY ENGINEER IF UNFEASIBLE
6. CONTRACTOR TO CONNECT DOWNSPOUT TO PROPOSED CLEANOUT
7. CONTRACTOR TO CONNECT SANITARY LINE TO PROPOSED CLEANOUT
8. PROPOSED 3" SANITARY LINE TO TIE INTO EXISTING SANITARY LINE SHOWN PER RECORD. CONTRACTOR TO FIELD VERIFY INVERT AND LOCATION OF EXISTING SANITARY PIPE SHOWN PER RECORD AND NOTIFY ENGINEER IF UNFEASIBLE



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TITLE
UTILITY PLAN & PROFILES

SHEET NO.
C500

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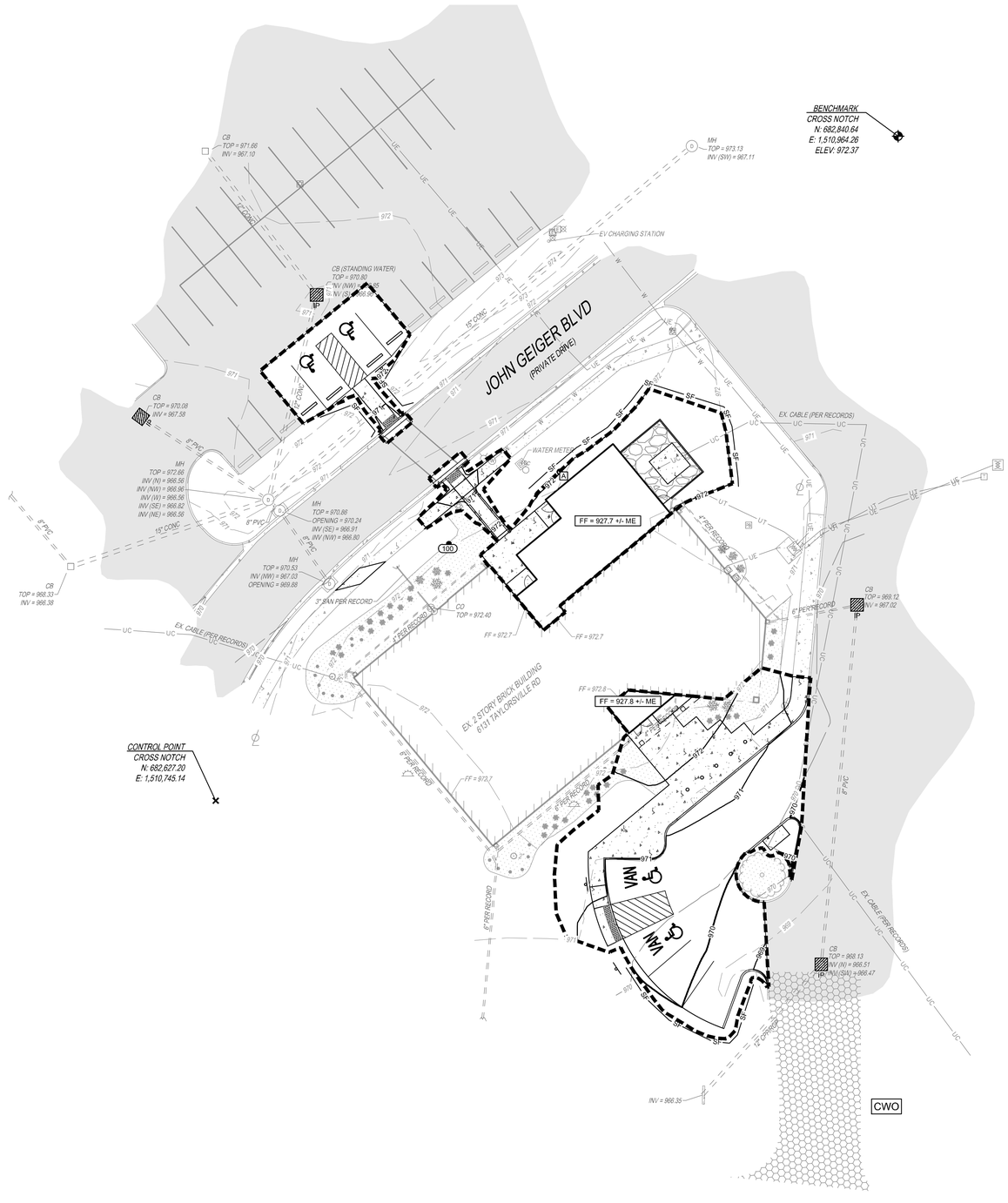

GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- × 1215.00 — PROPOSED SPOT ELEVATION

SPOT ELEVATION LEGEND

- × 1215.00 — FINISHED GRADE ELEVATION
- × 1215.00 BC — BACK OF CURB ELEVATION
- × 1215.00 EC — EDGE OF CONCRETE ELEVATION
- × 1215.00 EP — EDGE OF PAVEMENT ELEVATION
- × 1215.00 FC — FACE OF CURB ELEVATION
- × 1215.00 RIM — MANHOLE / CLEANOUT RIM ELEVATION
- × 1215.00 ±ME — MATCH EXISTING ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT PER DETAIL 1/C702
- CONSTRUCTION ENTRANCE PER DETAIL 2/C702
- SF — SILT FENCE PER DETAIL 3/C702
- IP — INLET PROTECTION PER DETAIL 4/C702

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TITLE
GRADING PLAN

SHEET NO.
C600

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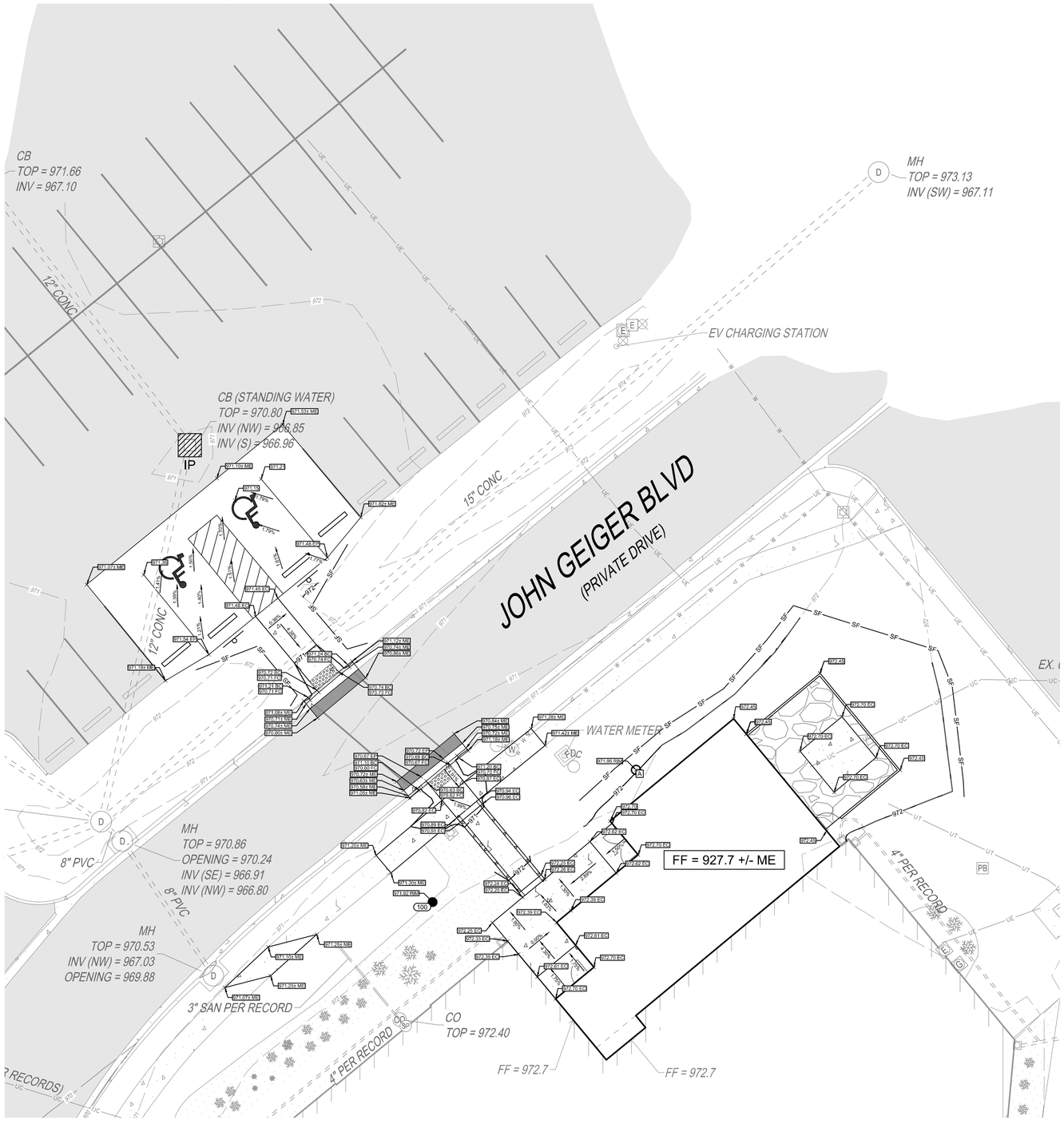

GRADING LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION

SPOT ELEVATION LEGEND

- FINISHED GRADE ELEVATION
- BACK OF CURB ELEVATION
- EDGE OF CONCRETE ELEVATION
- EDGE OF PAVEMENT ELEVATION
- FACE OF CURB ELEVATION
- MANHOLE / CLEANOUT RIM ELEVATION
- MATCH EXISTING ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT PER DETAIL 1/C702
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GRADING PLAN - NORTH

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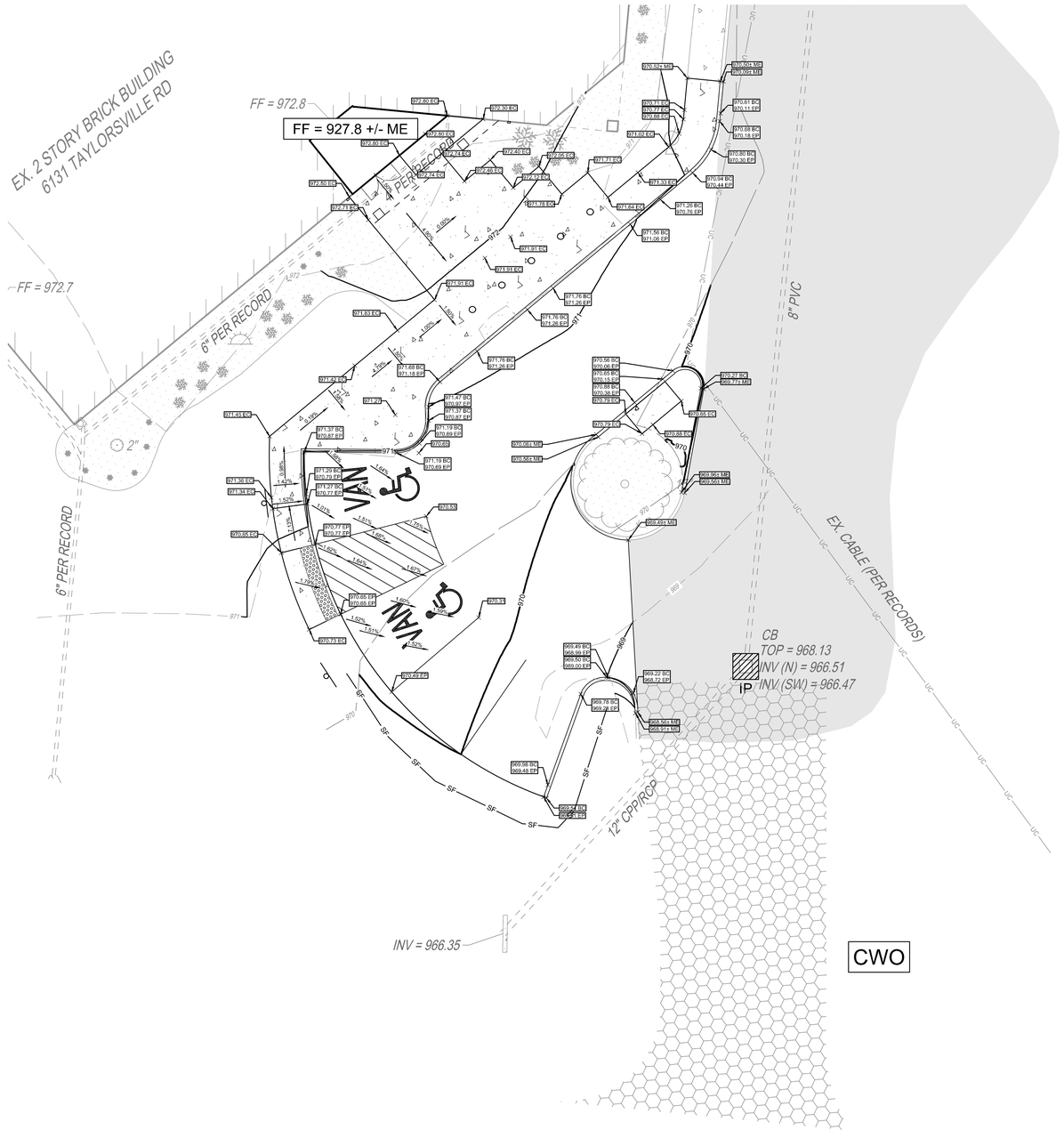

GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- ×1215.00 PROPOSED SPOT ELEVATION

SPOT ELEVATION LEGEND

- ×1215.00 FINISHED GRADE ELEVATION
- ×1215.00 BC BACK OF CURB ELEVATION
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- ×1215.00 ±ME MATCH EXISTING ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO CONCRETE WASHOUT PER DETAIL 1/C702
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- SF SILT FENCE PER DETAIL 3/C702
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TITLE
GRADING PLAN - SOUTH

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PROJECT DATA

PROJECT DESCRIPTION
HUBER HEIGHTS CITY HALL RENOVATION

LATITUDE:	N 39°51'46.4"
LONGITUDE:	W 84°07'49.2"
ESTIMATED CONSTRUCTION DATES:	TBD - TBD
TOTAL SITE AREA:	1.12 ACRES
TOTAL DISTURBED AREA:	0.22 ACRES
EXISTING IMPERVIOUS AREA:	0.14 ACRES
PROPOSED IMPERVIOUS AREA:	0.18 ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	0.18 ACRES
INCREASE IN IMPERVIOUS AREA:	29%
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C=0.75
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C=0.85
IMMEDIATE RECEIVING WATER/MS4:	LOCAL STORM NETWORK
ULTIMATE RECEIVING STREAM:	GREAT MIAMI VALLEY BURIED ACQUIFER
EXISTING LAND USE:	CITY HALL
SOILS:	MsB - MILTON SILT LOAM, 2 TO 6 PERCENT SLOPES MsA - MILTON SILT LOAM, 0 TO 2 PERCENT SLOPES

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A) INSTALL EROSION CONTROL ITEMS.
B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

1. SEEDING
2. DITCH MATTING
3. INLET PROTECTION
4. MULCHING
5. WATERING

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT		
PROJECT ENGINEER		

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
2) STOP THE SPILL.
3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:

EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
3) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL

SEED TYPE	PER 1,000 SQ FT	PER ACRE
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			●	●	●	*	*	*	●	●		
DORMANT SEEDING	●	●	●							●	●	●
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING			**	**	**	**	**	**	**			
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* IRRIGATION NEEDED
** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS, SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

PERMITTEE

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SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

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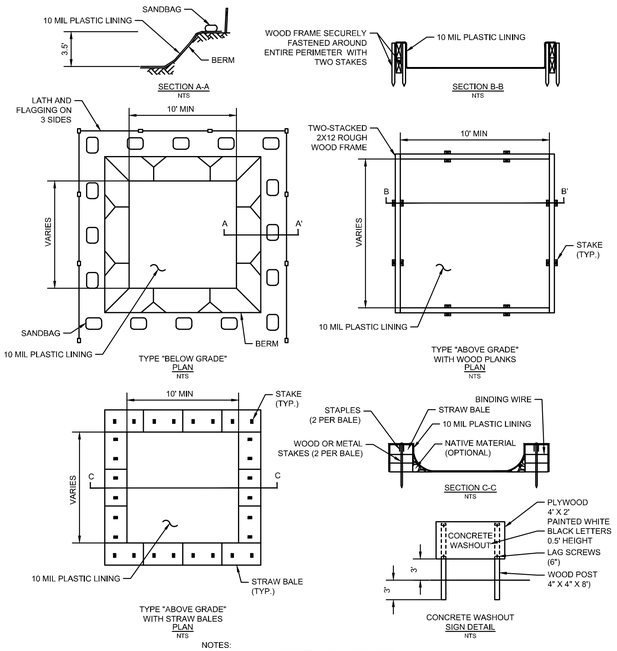

NOTES:

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

1 / C702 CONCRETE WASHOUT DETAIL
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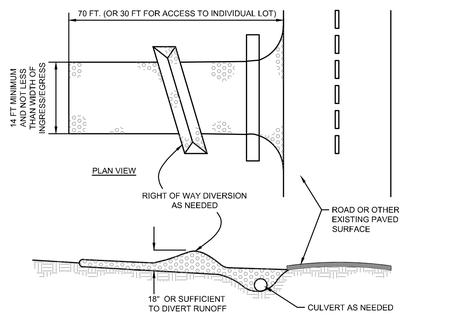

NOTES

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 LBS
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	1X10^{-7} CM/SEC

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

2 / C702 CONSTRUCTION ENTRANCE DETAIL
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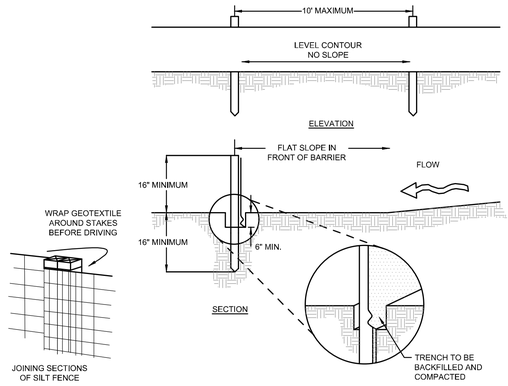


NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 8 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

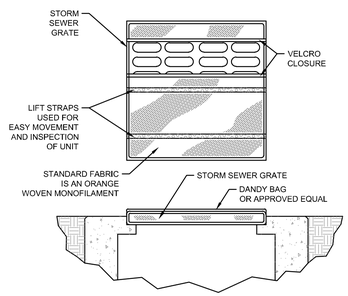
SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POST – THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN, NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
2. SILT FENCE FABRIC – SEE CHART BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS. (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10-2 SEC-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

3 / C702 SILT FENCE DETAIL
N.T.S.



SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0,51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M^2 (GAL/MIN/FT^2)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC^{-1}	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

4 / C702 DANDY BAG DETAIL
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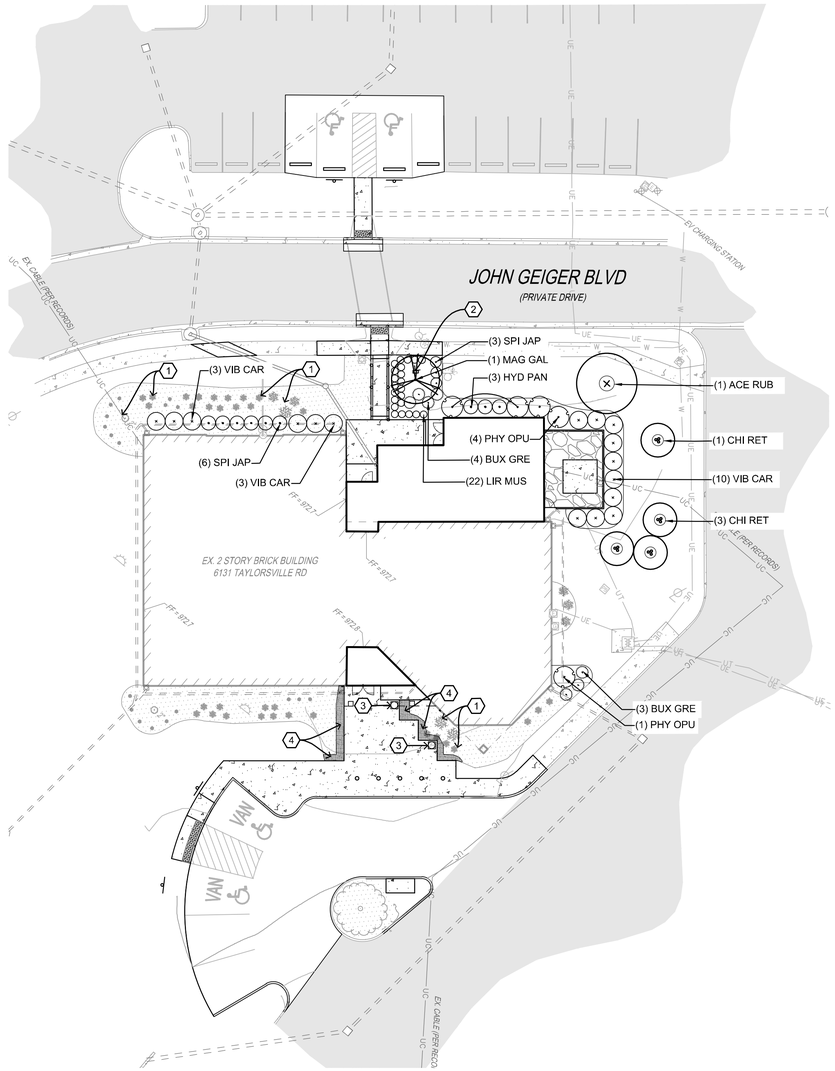

PROTECTING EXISTING UNDERGROUND UTILITIES:

1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING, MARKING, OR OTHERWISE DESIGNATING THE LOCATIONS OF THE UNDERGROUND UTILITIES IN THE CONSTRUCTION AREAS IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH OF WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF PLANNED CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN THE VICINITY OF THE EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ISOLATE, BRACE, SUPPORT, SHEET, ETC. AND PROTECT THE EXISTING UTILITY FROM MOVING EITHER HORIZONTALLY OR VERTICALLY. IF SUCH MOVEMENT DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, THEY SHALL REPAIR THE UTILITY AT HIS EXPENSE. THE CONTRACTOR MAY ELECT TO REMOVE AND RECONSTRUCT PORTIONS OF THE EXISTING UTILITY AT THEIR OWN EXPENSE IF THEY SO DESIRES.
3. SHOULD AN UNLOCATED OR AN EXTREME VARIANCE IN LOCATION OF A UTILITY BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS.
4. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE ENGINEER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICING HAS BEEN PROVIDED. COOPERATION WITH THE ENGINEER IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION IS ESSENTIAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THEIR WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING UTILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, THEY SHALL NOTIFY THE ENGINEER IMMEDIATELY AND REPLACE THE DAMAGED PORTION IMMEDIATELY, AND AT THEIR EXPENSE.

SURFACE ITEMS

STANDARD CONCRETE TYP, SEE CIVIL DRAWINGS

PLANT LEGEND

DECIDUOUS TREE — 4 / L2

SHRUBS, PERENNIALS & ORNAMENTAL GRASSES, SHRUBS TO BE MIN. 24" HT. — 1-3 / L2

EXISTING TREES TO REMAIN, PROTECT IN PLACE

CONSTRUCTION NOTES:

1. PROTECT EXISTING LANDSCAPING.
2. MEMORIAL PLAQUE TO BE SALVAGED AND PLACED AT NEW TREE.
3. NEW LOCATION FOR SALVAGED CONCRETE PLANTER.
4. RESTORE ALL LANDSCAPE BEDS IMPACTED BY CONSTRUCTION WITH NEW TOPSOIL AND 2" OF MULCH TO MATCH EXISTING.

PLANTING SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
DECIDUOUS TREES:					
ACE RUB	ACER RUBRUM 'FRANKSRED'	RED SUNSET MAPLE	2" CAL	B&B	SPACE PER PLAN
CHI RET	CHIONANTHUS RETUSUS	FRINGETREE	7' CLUMP	B&B	SPACE PER PLAN
MAG GAL	MAGNOLIA x 'GALAXY'	GALAXY MAGNOLIA	7' HT.	B&B	SPACE PER PLAN
SHRUBS:					
BUX GRE	BUXUS 'GREEN VELVET'	GREEN VELVET BOXWOOD	18" HT. MIN.	CONT.	SPACE 42" O.C.
HYD PAN	HYDRANGEA PANICULATA 'LITTLE LIME'	LITTLE LIME HYDRANGEA	18" HT. MIN.	CONT.	SPACE 48" O.C.
PHY OPU	PHYSOCARPUS OPULIFOLIUS 'CENTER GLOW'	CENTER GLOW NINEBARK	30" HT. MIN.	CONT.	SPACE 72" O.C.
SPI JAP	SPIREA JAPONICA 'NCSX1'	CANDY CORN SPIREA	24" SP. MIN.	CONT.	SPACE 36" O.C.
VIB CAR	VIBURNUM CARLESII 'CAYUGA'	CAYUGA VIBURNUM	30" HT. MIN.	CONT	SPACE 60" O.C.
PERENNIALS AND ORNAMENTAL GRASSES:					
LIR MUS	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILY TURF	#1	CONT.	SPACE 24" O.C.
SEEDED TURF LAWN					

GENERAL NOTES

1. SEE SHEET L2 FOR PLANT SCHEDULE AND DETAILS.
2. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
3. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
4. ALL CONCRETE FORMS SHALL BE FIELD STAKED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONCRETE INSTALLATION.
5. ALL HORIZONTAL AND VERTICAL LAYOUT SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE TO ENSURE GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
6. PROVIDE AN ISOLATION JOINT WHERE CONCRETE PAVING ABUTS BUILDINGS, COLUMNS, AND STRUCTURES. VERIFY COLOR OF SEALANT WITH OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES, AND PLANS FOR LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES.
9. CONTRACTOR TO REPORT TO ENGINEER ANY ADDITIONAL UTILITY LINES FOUND DURING CONSTRUCTION.
10. THE SITE WILL NOT BE IRRIGATED.
11. ALL DEAD, DAMAGED, OR MISSING LANDSCAPE MATERIALS WILL BE REPLACED PER THE CITY'S LANDSCAPE ORDINANCE.
12. ANY CHANGES MADE TO THE APPROVED LANDSCAPE PLAN WILL BE APPROVED BY THE CITY OF MASON.
13. NO TREES SHALL BE PLANTED WITHIN 10 FEET OF FIRE HYDRANTS.

0 10 20 40

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LANDSCAPE PLAN

SHEET NO.
L1

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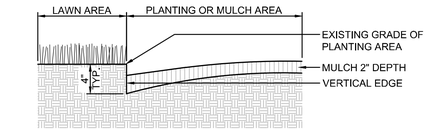

1 PLANTING BED / TREE PIT EDGING DETAIL
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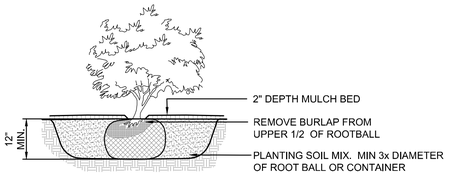

2 SHRUB PLANTING
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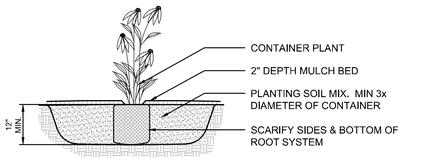

3 PERENNIAL PLANTING
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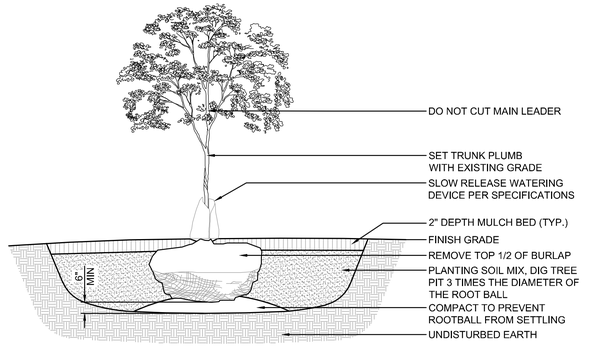

NOTES:
1. TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE.
2. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.
3. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.
4. DO NOT STAKE AND GUY TREES UNLESS NEEDED FOR STABILITY BASED ON SITE CONDITIONS OR A DIRECTED BY OWNER'S REPRESENTATIVE .
5. PROVIDE SLOW RELEASE WATERING DEVICE. ONE PER TREE. REFER TO SPECIFICATIONS.

4 DECIDUOUS TREE PLANTING WITH WATERING DEVICE
N.T.S.

PLANTING NOTES
1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. CONTRACTOR SHALL VERIFY ALL PLANTING CONDITIONS FOR OBSTRUCTIONS, EXISTING TREE CANOPY COVERAGE, AND OVERHEAD ELECTRICAL POWER LINES PRIOR TO PLANTING. IF ADVERSE PLANTING CONDITIONS ARE OBSERVED, CONTACT THE OWNERS REPRESENTATIVE IMMEDIATELY.
3. ALL SHRUB MASSES TO BE INCORPORATED BY A CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. MULCH BEDS TO HAVE A NEAT, EDGED APPEARANCE.
4. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
5. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE FINE GRADED AND SEEDED.
6. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM.
7. THE CONTRACTOR SHALL ENSURE THAT ALL NEWLY PLANTED TREES ARE PERFECTLY ALIGNED AND SET PLUMB WITH PROPER RELATIONSHIP TO THE SURROUNDING GRADE. CONFIRM FINISHED GRADE PRIOR TO PLANTING.
8. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED. IF SUBSTITUTIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE, THE SIZE AND GRADING STANDARDS SHALL CONFORM TO THOSE OF AMERICANHORT.
9. PRIOR TO ORDERING PLANT MATERIAL, THE CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PLAN, LABELS, AND PLANT SCHEDULE.

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ABBREVIATIONS

SYMBOL	
@	AT
&	AND
L	ANGLE
Ø	DIAMETER
℄	CENTER LINE
℞	PLATE

A	
ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ANCH	ANCHOR
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL
ATTEN	ATTENUATED
AUTO	AUTOMATIC
AVG	AVERAGE

B	
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT

C	
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALL
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CL	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CPU	CENTRAL PROCESSING UNIT (COMPUTER)
CY	CUBIC YARD

D	
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
DTL	DETAIL

E	
EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST OR EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FND	FOUNDATION
FRT	FIRE RETARDANT TREATED WOOD
FS	FILLER STRIP
FT	FOOT OR FEET OR FULLY TEMPERED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
FOW	FACE OF WALL

G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GRADE OR GRADING
GEN	GENERAL
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM BOARD
GWT	GLAZED WALL TILE

H	
HB	HOSE BIBB
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWD	HARDWARE

I	
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE (D) (ING)
INT	INTERIOR
INV	INVERT

J	
JB	JUNCTION BOX
JC	JANITOR CLOSET

L	
L	LONG
LAV	LAVATORY
LBS	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTL	LINTEL
LVR	LOUVER

M	
M	MEN OR METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIL	THOUSANDTHS OF AN INCH
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL

N	
N	NORTH OR NITROGEN
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NUMBER OR NITROUS OXIDE
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O	
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFOI	OWNER FURNISH, OWNER INSTALL
OFVI	OWNER FURNISH, VENDOR INSTALL
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
O_2	OXYGEN

P	
PAR	PARALLEL
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PME	PLUMBING, MECHANICAL & ELECTRICAL
PNL	PANEL
PR	PAIR
PREFIN	PREFINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE

Q	
QTY	QUANTITY

R	
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY

S	
S	SOUTH
SAN	SANITARY
SB	SINK BASE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SH	SPRINKLER HEAD OR SHOWER HEAD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYS	SYSTEM

T	
T & G	TONGUE & GROOVE
TB	TOWEL BAR
T&B	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL

U	
UC	UNDER CABINET OR COUNTER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

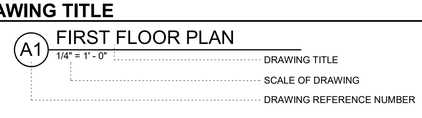
V	
V	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VS	VACUUM SLIDE

W	
W	WIDE OR WEST OR WOMEN
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET OR WALL CABINET
WD	WOOD
WIN	WINDOW
WP	WORK POINT
WPT	WOOD PRESERVATIVE TREATMENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.

REFERENCE SYMBOLS

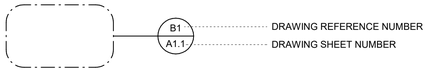
DRAWING TITLE



INTERIOR ELEVATIONS

BUILDING/DETAIL SECTION

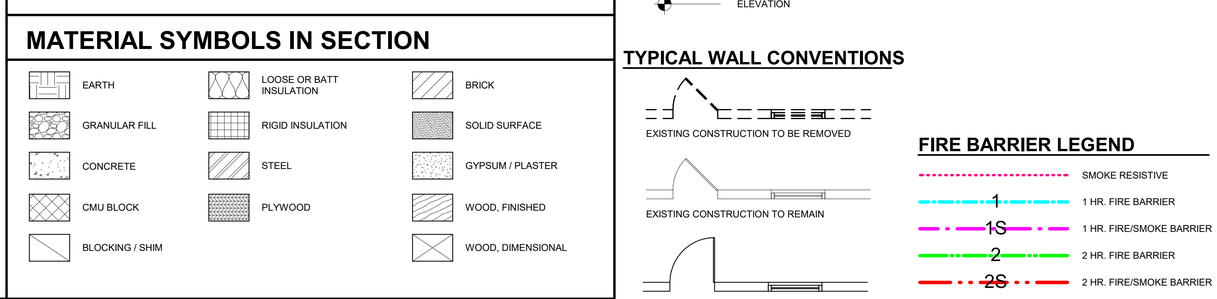
ENLARGED DETAIL



EXTERIOR ELEVATIONS

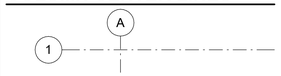
MATCH LINE

MATERIAL SYMBOLS IN SECTION

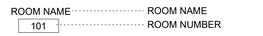


DRAWING SYMBOLS

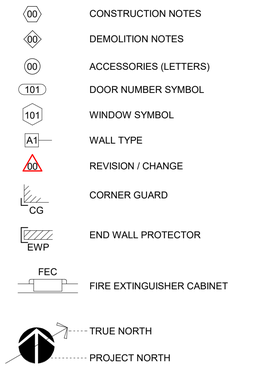
COLUMN CENTER LINES



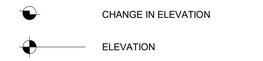
ROOM SYMBOL



PLAN SYMBOLS

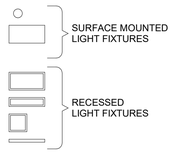


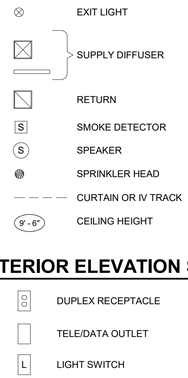
ELEVATION SYMBOLS



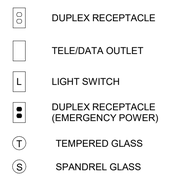
TYPICAL WALL CONVENTIONS

REFLECTED CEILING SYMBOLS

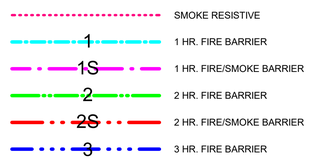




INTERIOR ELEVATION SYMBOLS

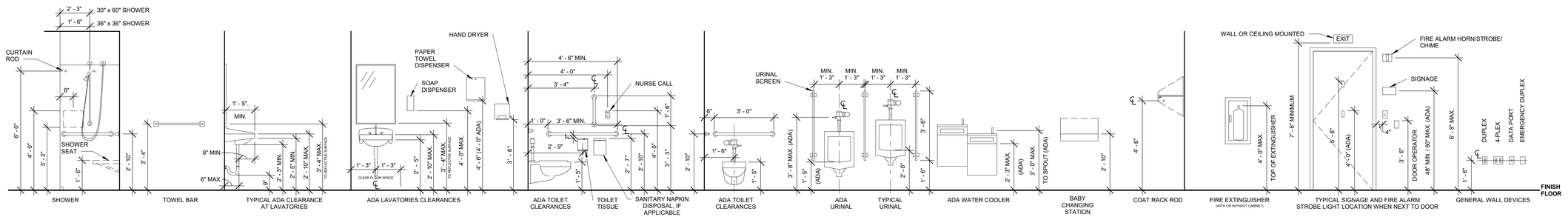


FIRE BARRIER LEGEND



MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)



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6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DAW
CHECKED	TJB

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TITLE
ABBREVIATIONS AND SYMBOLS

SHEET NO.
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MATERIAL LEGEND

SORT MATERIAL	ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	CONTACT INFO	COLOR	FLAME / SMOKE	REMARKS
BASE								
BASE	PTWB-1	PORCELAIN TILE WALL BASE	DALTILE	MEDIAN, COVE BASE, P36C9, 6"X12", MATTE FINISH	VICKI MARCH, 702.517.3335 (m)	MN41, BEIGE	-	
BASE	RB-1	RUBBER BASE	TARKETT	RUBBER COVE BASE, 4.5"x120', TSB 71	LAURIE BAATZ, 330.810.4731 (m)	STORM CLOUD	-	
CABINETS								
CABINETS	PL-1	PLASTIC LAMINATE	WILSONART	7960-18 (LINEARITY)	KATIE MASON, 614.971.9636 (m)	STUDIO TEAK	-	
CABINETS	SSM-1	SOLID SURFACE	WILSONART	9280-CS	KATIE MASON, 614.971.9636 (m)	WHITE STONE	-	
CABINETS	SSM-2	SOLID SURFACE SINK	WILSONART	AV1512 OVAL ADA VANITY BOWL, OPT WITH OVERFLOW	KATIE MASON, 614.971.9636 (m)	DESIGNER WHITE	-	
CEILING								
CEILING	APC-1	ACOUSTIC PANEL CEILING	ARMSTRONG	OPTIMA LAY-IN, 24" x 24 x 3/4", #3150	JEN McCOY, 513.919.2263 (m)	WHITE	CLASS A	
CEILING	CP-1	PAINT	SHERWIN WILLIAMS	SW-7008	KAREN MCILWAIN, 317-714-5610	ALABASTER	-	
CEILING	EXIST	EXISTING					-	
CEILING	EXP	EXPOSED STRUCTURE		NO FINISH			-	
DOORS								
DOORS	DEP-1	DOOR & FRAME PAINT	SHERWIN WILLIAMS	SW-2819	KAREN MCILWAIN, 317-714-5610	DOWNING SLATE		
FLOOR								
FLOOR	CONC	CONCRETE		SEALED CONCRETE				
FLOOR	CPT-1	CARPET TILE	INTERFACE	OPEN AIR 418 STRIA, 103291 (50cm X 50cm, TILE)	MAGGIE HERMS, 513.500.9523 (m)	BLACK	CLASS 1 < 450	
FLOOR	CPT-2	CARPET TILE	INTERFACE	OPEN AIR 402 STRIA, 103243 (25cm x 1m, PLANK)	MAGGIE HERMS, 513.500.9523 (m)	BLACK	CLASS 1 < 450	
FLOOR	CPT-3	CARPET TILE	INTERFACE	OPEN ENDED, 103186 (25cm x 1m, PLANK, SOLID ACCENT -BROWN)	MAGGIE HERMS, 513.500.9523 (m)	HICKORY	CLASS 1 < 450	
FLOOR	CPT-4	CARPET TILE	INTERFACE	OPEN ENDED, 103178 (25CM X 1m, PLANK, SOLID ACCENT -BLUE)	MAGGIE HERMS, 513.500.9523 (m)	TURQUOISE	CLASS 1 < 450	
FLOOR	EXIST	EXISTING					-	
FLOOR	LVT-1	LUXURY VINYL TILE	INTERFACE	NORTHERN GRAIN, 4.5mm, A02607 (25cm x 1m, PLANK)	MAGGIE HERMS, 513.500.9523 (m)	DARK WASH	CLASS 1 < 450	
FLOOR	MAT-1	WALK-OFF MAT	INTERFACE	STEP REPEAT COLLECTION, SR899,104941 (50cm x 50cm, TILE)	MAGGIE HERMS, 513.500.9523 (m)	ONYX	CLASS 1 < 450	
FLOOR	PT-1	PORCELAIN TILE	DALTILE	MEDIAN, 12" x 24" x 3/8", MATTE FINISH	VICKI MARCH, 702.517.3335 (m)	MN41, BEIGE	-	
SPECIALTY								
SPECIALTY	AP-1	ACOUSTIC WALL PANEL	ZINTRA PANELS	1/2" ACOUSTIC PANEL	CHRISSY VAN WINKLE, 513.668.7283	CADET | ZTR4721	CLASS A	
SPECIALTY	WFP-1	WOOD WINDOW/TRIM PAINT	SHERWIN WILLIAMS	SW-7008	KAREN MCILWAIN, 317-714-5610	ALABASTER	-	
WALL								
WALL	EXIST	EXISTING						
WALL	P-1	PAINT	SHERWIN WILLIAMS	SW-6218	KAREN MCILWAIN, 317-714-5610	TRADE WINDS	-	
WALL	P-2	PAINT	SHERWIN WILLIAMS	SW-9135	KAREN MCILWAIN, 317-714-5610	WHIRLPOOL	-	
WALL	PTW-1	PORCELAIN TILE - WALL	DALTILE	MEDIAN, 12" x 24" x 3/8", MATTE FINISH	VICKI MARCH, 702.517.3335 (m)	MN40, WHITE	-	
WALL	VWP-1	VINYL WALL PROTECTION	INPRO CORP.	ASPEX, 2401, .040 (1mm), MATTE FINISH	KRISTI ASHFORD, 513.646.2163 (m)	2401	CLASS A	

ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR	BASE	WAINSCOT MAT.	WAINSCOT HT.	WALLS N	WALLS S	WALLS E	WALLS W	CEILING MAT.	REMARKS
101	VESTIBULE	MAT-1	RB-1			P-2	P-1	P-1	P-1	APC-1	
102	LOBBY	MAT-1/LVT-1	RB-1	VWP-1	PER ELEV	P-2	P-1	P-2	P-1	APC-1	
103	OFFICE	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
104	FRONT COUNTERS/OPEN OFFICE	CPT-1	RB-1			P-1	P-1	P-2	P-2	APC-1	
105	MANAGER	CPT-1	RB-1			P-1	P-1	P-2	P-1	APC-1	
106	GENERAL OFFICE	CPT-1	RB-1			P-1	P-1	P-2	P-1	APC-1	
107	COPY	LVT-1	RB-1			P-1	P-1	P-1	-	APC-1	
108	ELEC/IT (EX)	CONC	RB-1			P-1	P-1	P-1	P-1	EXP	
109	CORR	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
110	COPY	LVT-1	RB-1			P-1	P-1	-	P-1	APC-1	
111	AUDITOR	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
112	BILLING SPECIALISTS	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
113	ADMIN	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
114	PROJECT MANAGER	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
115	BREAKROOM	LVT-1	RB-1			P-1	P-2	P-2	P-2	APC-1	
116	KITCHENETTE	LVT-1	RB-1			P-1	P-2	-	P-2	APC-1	
117	VESTIBULE	MAT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
118	SHARED STORAGE	CONC	RB-1			P-1	P-1	P-1	P-1	CP-1	
119	MECHANICAL	CONC	RB-1			P-1	P-1	P-1	P-1	CP-1	
120	CORR	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
121	ELEV EQ (EX)	CONC	EXIST			EXIST	EXIST	EXIST	EXIST	EXIST	
122	ADA UNISEX RESTROOM	PT-1	PTWB-1			PTW-1	P-1	P-1	P-1	APC-1	1
123	UNISEX RESTROOM	PT-1	PTWB-1			PTW-1	P-1	P-1	P-1	APC-1	1
124	MECHANICAL (EX)	CONC	RB-1			P-1	P-1	P-1	P-1	EXP	
125	FILES	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
126	COPY	LVT-1	RB-1			P-1	P-1	-	P-1	APC-1	
127	ASSISTANT TAX ADMINISTRATOR	CPT-1	RB-1			P-2	P-1	P-2	P-1	APC-1	
128	ANALYST	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
129	ANALYST	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
130	TAX ADMINISTRATOR	CPT-1	RB-1			P-2	P-1	P-1	P-2	APC-1	
131	TECHNICIAN	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
132	TAX AGENTS	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
133	TECHNICIAN	CPT-1	RB-1			P-1	P-2	P-1	P-2	APC-1	
134	TECHNICIAN	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
135	TECHNICIAN	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
136	TECHNICIAN	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
137	CORR	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
138	TAX PREP STATION	MAT-1	RB-1	VWP-1	PER ELEV	P-1	P-2	P-1	P-1	APC-1	1,2
139	ADA TAX PREP STATION	MAT-1	RB-1	VWP-1	PER ELEV	P-1	P-2	P-1	P-1	APC-1	1,2
140	FUTURE OFFICE	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
142	TECHNICIAN	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
143	TAX PREP STATION	MAT-1	RB-1	VWP-1	PER ELEV	P-2	P-1	P-1	P-1	APC-1	1,2
144	TAX PREP STATION	MAT-1	RB-1	VWP-1	PER ELEV	P-2	P-1	P-1	P-1	APC-1	1,2
145	ADA UNISEX RESTROOM	PT-1	PTWB-1			PTW-1	P-1	P-1	P-1	APC-1	
146	SUPPLY CL	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
147	CORR	LVT-1	RB-1			P-1	P-1	P-1	P-2	APC-1	
148	LOBBY/WAITING	LVT-1	RB-1			P-2/VWP-1	P-2	VWP-1	P-2	APC-1	
149	RECEPTION	CPT-1	RB-1			P-1	P-1	P-1	P-2	APC-1	
201	CORR	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
202	ADA UNISEX RESTROOM	PT-1	PTWB-1			P-1	PTW-1	P-1	P-1	APC-1	1
203	JAN	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
204	UNISEX RESTROOM	PT-1	PTWB-1			P-1	P-1	P-1	PTW-1	APC-1	1
205	KITCHENETTE	LVT-1	RB-1			P-1	P-2	P-1	P-2	APC-1	
206	CONFERENCE ROOM	CPT-2,3,4	RB-1	VWP-1	PER ELEV	P-1	P-2	P-1	P-1	APC-1	1,2
207	CLOSET	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
208	ACCOUNTANT	CPT-1	RB-1			P-2	P-1	P-2	P-1	APC-1	
209	ACCOUNTING GENERALIST	CPT-1	RB-1			P-2	P-1	P-2	P-1	APC-1	
210	ACCOUNT TECHNICIAN	CPT-1	RB-1			P-2	P-1	P-1	P-2	APC-1	
211	COPY	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
212	CLOSET	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
213	STORAGE / SAFE / IT	LVT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
214	DEPUTY DIRECTOR	CPT-1	RB-1			P-1	P-2	P-1	P-2	APC-1	
215	CORR	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
216	FUTURE OFFICE	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
217	PROCUREMENT & GRANT SPECIALIST	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
218	ASST. CITY MANAGER/I.T./FLEX	CPT-1	RB-1			P-1	P-2	P-1	P-2	APC-1	
219	PAYROLL TECHNICIAN	CPT-1	RB-1			P-1	P-2	P-1	P-2	APC-1	
220	ACCOUNTING GENERALIST	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
221	ACCTS PAYABLE TECHNICIAN	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
222	DIRECTOR OF FINANCE	CPT-1	RB-1			P-1	P-2	P-2	P-1	APC-1	
S1	STAIR (EX)	EXIST	EXIST			EXIST	EXIST	EXIST	EXIST	EXIST	
S1	STAIR (EX)	EXIST	EXIST			EXIST	EXIST	EXIST	EXIST	EXIST	
S2	STAIR (EX)	EXIST	EXIST			EXIST	EXIST	EXIST	EXIST	EXIST	
S2	STAIR (EX)	EXIST	EXIST			EXIST	EXIST	EXIST	EXIST	EXIST	

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1.	REFER TO INTERIOR ELEVATIONS AND INTERIOR FINISHES SHEETS FOR MATERIAL EXTENTS AND LOCATIONS.
2.	INSTALL CHAIR RAIL. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS.

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Expiration Date 12/31/2025

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ISSUE

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	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
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TITLE
FINISH SCHEDULES

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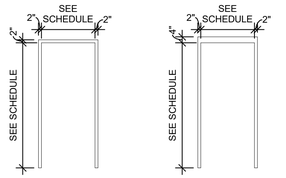
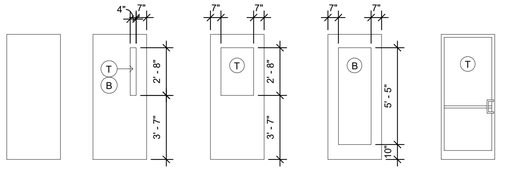


TYPE 1
SINGLE / PAIR STANDARD

TYPE 2
SINGLE / PAIR STANDARD

FRAME ELEVATIONS



TYPE F1
FLUSH

TYPE NL1(T)
NL1(B)
NARROW LITE

TYPE HG1
HALF GLASS

TYPE FG1
FULL GLASS

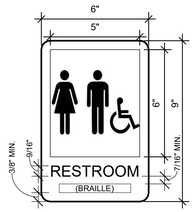
TYPE AL1
ALUMINUM STOREFRONT

(T) INDICATES TEMPERED SAFETY GLAZING

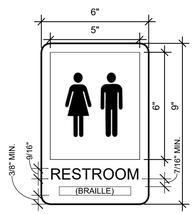
(B) BULLET RESISTANT GLAZING

DOOR ELEVATIONS

SIGNAGE LEGEND



UNISEX RESTROOM - TYPE 1
3" = 1'-0"



UNISEX RESTROOM - TYPE 2
3" = 1'-0"

SIGN NOTES

A. ALL SIGNS SHALL HAVE BRAILLE LETTERING BENEATH TEXT, TYPICAL.

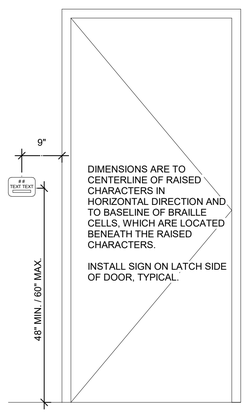
B. SIGNS MOUNTED ON GLASS AT DOOR NEED TO BE MOUNTED WITH ADHESIVE AND MATCHING BACKER PLATE FOR OTHER SIDE OF GLASS.

C. TEXT AND GRAPHICS TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH BACKGROUND. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

D. BACKGROUND TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH TEXT AND GRAPHICS. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

E. 1/2" RADIUS CORNERS.

F. ALL TEXT ON SIGNS LOCATED NEXT TO INTERIOR DOORS WILL BE 1/32" RAISED CHARACTERS, UPPERCASE, AND VIEWABLE AT LESS THAN 6 FEET.



SIGNAGE LOCATION
3/4" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR No.	ROOM NAME	HDW. SET	DOOR SIZE W	DOOR SIZE H	DOOR T	DOOR MAT.	DOOR TYPE	DOOR FIN.	DOOR U/C	FRAME MAT.	FRAME TYPE	FRAME FIN.	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FIRE RTG.	REMARKS
101A	VESTIBULE	1.0	6' - 0"	7' - 0"	1 3/4"	AL	AL1	ANOD	-	AL	1	ANOD	B1/A0.6	D1/A0.6	-	1,4
101B	VESTIBULE	4.0	6' - 0"	7' - 0"	1 3/4"	AL	AL1	ANOD	-	AL	1	ANOD	B6/A0.6 SIM	C6/A0.6 SIM	-	1,4,6
101C	LOBBY	4.0	6' - 0"	7' - 0"	1 3/4"	AL	AL1	ANOD	-	AL	1	ANOD	B6/A0.6 SIM	C6/A0.6 SIM	-	1,4
102	LOBBY	14.0	3' - 0"	7' - 0"	1 3/4"	HM	NL1(B)	PAINT	-	HM	1	PAINT	B6/A0.6 SIM	C6/A0.6 SIM	-	3,4
103	OFFICE	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
105	FRONT COUNTERS/OPEN OFFICE	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
106	GENERAL OFFICE	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
108	ELEC/IT (EX)	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6 SIM	C6/A0.6 SIM	-	4,6
109	CORR	5.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	4
111	AUDITOR	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
112	BILLING SPECIALISTS	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
113	ADMIN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
114	PROJECT MANAGER	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
117	VESTIBULE	2.0	3' - 0"	7' - 0"	1 3/4"	AL	AL1	ANOD	-	AL	1	ANOD	B1/A0.6	D1/A0.6	-	4
117(EX)	VESTIBULE	12.0	3' - 0"	7' - 0"	1 3/4"	AL	AL1	ANOD	-	AL	1	ANOD	EX	EX	-	5
118	SHARED STORAGE	5.0	3' - 0"	7' - 0"	1 3/4"	HM	F1	PAINT	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	4
119	MECHANICAL	3.0	6' - 0"	7' - 0"	1 3/4"	HM	F1	PAINT	-	HM	2	PAINT	B3/A0.6	D3/A0.6	-	1
120	CORR	5.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	4
121(EX)	ELEV EQ (EX)	12.0	3' - 0"	7' - 0"	1 3/4"	HM(EX)	F1	PAINT	-	HM(EX)	-	PAINT	EX	EX	45 MIN.	
122	ADA UNISEX RESTROOM	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	PAINT	B6/A0.6	C6/A0.6	-	7
123	UNISEX RESTROOM	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	PAINT	B6/A0.6	C6/A0.6	-	8
124	CORR	6.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6 SIM	C6/A0.6 SIM	-	6
127	ASSISTANT TAX ADMINISTRATOR	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
128	ANALYST	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
129	ANALYST	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
130	TAX ADMINISTRATOR	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
131	TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
132	TAX AGENTS	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
133	TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
134	TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
135	TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
136	TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
138A	TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,10
138B	TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,9
139A	ADA TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,10
139B	ADA TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,9
140	FUTURE OFFICE	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
142	TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
143A	TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,10
143B	TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,9
144A	TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,10
144B	TAX PREP STATION	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	AL	-	PREFIN	E5/A0.6	F5/A0.6	-	2,9
145	ADA UNISEX RESTROOM	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	PAINT	B6/A0.6	C6/A0.6	-	7
146	SUPPLY CL	7.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
147	LOBBY/WAITING	14.0	3' - 0"	7' - 0"	1 3/4"	WD	HG1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	4
149	LOBBY/WAITING	5.0	3' - 0"	7' - 0"	1 3/4"	HM	FG1	PAINT	-	HM	1	PAINT	B6/A0.6 SIM	C6/A0.6 SIM		3,4
201	CORR	5.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	4
202	ADA UNISEX RESTROOM	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	PAINT	B6/A0.6	C6/A0.6	-	7
203	JAN	7.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
204	UNISEX RESTROOM	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	PAINT	B6/A0.6	C6/A0.6	-	8
206	CONFERENCE ROOM	10.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1(T)	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
207	CLOSET	8.0	2' - 6"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
208	ACCOUNTANT	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
209	ACCOUNTING GENERALIST	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
210	ACCOUNT TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
212	CLOSET	8.0	2' - 6"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
213	STORAGE / SAFE / IT	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6 SIM	C6/A0.6 SIM	-	4,6
214	DEPUTY DIRECTOR	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6 SIM	C6/A0.6 SIM	-	6
216	FUTURE OFFICE	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
217	PROCUREMENT & GRANT SPECIALIST	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
218	ASST. CITY MANAGER/I.T./FLEX	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
219	PAYROLL TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
220	ACCOUNTING GENERALIST	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
221	ACCTS PAYABLE TECHNICIAN	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
222	DIRECTOR OF FINANCE	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	-	HM	1	PAINT	B6/A0.6	C6/A0.6	-	
S1A	STAIR (EX)	12.0	3' - 0"	7' - 0"	1 3/4"	HM	F2	PAINT	-	HM	2	PAINT	B5/A0.6	C5/A0.6	60 MIN.	
S1B(EX)	STAIR (EX)	11.1	3' - 0"	7' - 0"	1 3/4"	HM(EX)	F1	PAINT	-	HM(EX)	-	PAINT	EX	EX	60 MIN.	4
S1C(EX)	STAIR (EX)	12.0	3' - 0"	7' - 0"	1 3/4"	HM(EX)	F1	PAINT	-	HM(EX)	-	PAINT	EX	EX	60 MIN.	
S2A(EX)	STAIR (EX)	11.0	3' - 0"	7' - 0"	1 3/4"	HM(EX)	F1	PAINT	-	HM(EX)	-	PAINT	EX	EX	60 MIN.	4
S2B(EX)	STAIR (EX)	12.0	3' - 0"	7' - 0"	1 3/4"	HM(EX)	F1	PAINT	-	HM(EX)	-	PAINT	EX	EX	-	
S2C(EX)	STAIR (EX)	11.0	3' - 0"	7' - 0"	1 3/4"	HM(EX)	F1	PAINT	-	HM(EX)	-	PAINT	EX	EX	60 MIN.	4

DOOR REMARKS

No.	REMARK
1	PAIR OF 3' DOORS.
2	PROVIDE BARN DOOR MOUNTING KIT ASSEMBLY. 32" MIN. CLR. IN OPEN POSITION.
3	BULLET RESISTANT DOOR AND FRAME ASSEMBLY.
4	ACCESS CONTROL BY CARD READER.
5	EXISTING DOOR TO REMAIN. MODIFY HARDWARE PER SPEC.
6	INSTALL DOOR IN EXISTING WALL OPENINGS.
7	SIGN TYPE 1 AT THIS DOOR.
8	SIGN TYPE 2 AT THIS DOOR.
9	BARN DOOR WITH LADDER PULLS.
10	BARN DOOR WITH THUMBTURN LOCK & LADDER PULLS.

DOOR AND FRAME GENERAL NOTES:

A. DOOR THRESHOLDS WHERE REQUIRED SHALL NOT EXCEED 1/2" IN HEIGHT. REFER TO SPECIFICATION SECTION 08 7100 AND DOOR HARDWARE SCHEDULE FOR DETAILS.

B. ALL EGRESS DOORS (TO INCLUDE DOORS WITH ACCESS CONTROL AND CARD READERS) ARE TO HAVE FREE EGRESS AT ALL TIMES. REFER TO SPECIFICATION SECTION 08 7100 AND DOOR HARDWARE SCHEDULE FOR DETAILS.

C. ALL DOOR KNOBS ARE TO BE ANSI A117.1 (2009) COMPLIANT LEVER STYLE HANDLES. REFER TO SPECIFICATION SECTION 08 7100 AND DOOR HARDWARE SCHEDULE FOR DETAILS.

D. RATED DOORS SHALL BE SELF OR AUTOMATIC CLOSING WITH AN ACTIVE LATCH BOLT PER OBC SECTIONS 716.5.9 AND 716.5.9.1. REFER TO DOOR HARDWARE SCHEDULE IN SPECIFICATION SECTION 08 7100 FOR DETAILS.

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STATE OF OHIO TIMOTHY J. BEMENT REGISTERED ARCHITECT 12305

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Expiration Date 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DAW
CHECKED	TJB

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TITLE
DOOR SCHEDULE & TYPES

SHEET NO.
A0.3

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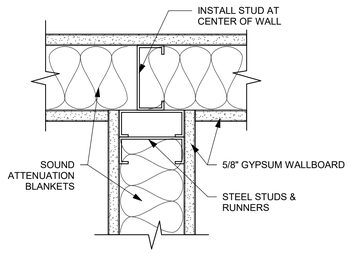
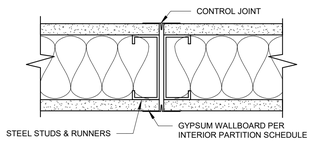
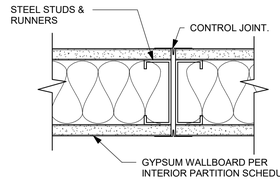


B1 TYPICAL WALL INTERSECTION PARTITION DETAIL
3" = 1'-0"



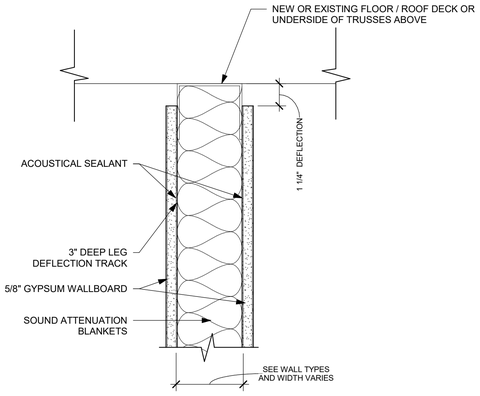
NOTE; EXPANSION JOINTS TO OCCUR EVERY 20'-0" OF UNINTERRUPTED WALL LENGTH.

C1 TYP. GWB EXPANSION DETAIL
3" = 1'-0"



NOTE; EXPANSION JOINTS TO OCCUR EVERY 20'-0" OF UNINTERRUPTED WALL LENGTH.

D1 TYPICAL EXPANSION JOINT DETAIL
3" = 1'-0"



F1 TYPICAL DEFLECTION TRACK DETAIL (NON RATED)
3" = 1'-0"

INTERIOR WALL TYPES SCHEDULE

TYPE	BASE WALL WIDTH	FIRE RATING — TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	- -	4 7/8"; DECK; DEFLECTION TRACK AT HEAD; 5/8" TYPE "X" GYPSUM BOARD; CEILING; 3 5/8" STEEL STUDS @ 16" O.C.; 3 1/2" SOUND ATTENUATION; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
A2	3 5/8"	- -	5 3/8"; DECK; DEFLECTION TRACK AT HEAD; 5/8" TYPE "X" GYPSUM BOARD; .45" THICK RESISTANT FIBERGLASS SHEET; CEILING; 3 5/8" STEEL STUDS @ 16" O.C.; 3 1/2" SOUND ATTENUATION; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
A3	3 5/8"	- -	4 7/8"; DECK; DEFLECTION TRACK AT HEAD; 5/8" TYPE "X" GYPSUM BOARD; CEILING; 3 5/8" STEEL STUDS @ 16" O.C.; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
B1	6"		7 1/4"; DECK; DEFLECTION TRACK AT HEAD; 5/8" TYPE "X" GYPSUM BOARD; CEILING; 6" STEEL STUDS @ 16" O.C.; 5 1/2" SOUND ATTENUATION; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
B2	6"		7 3/4"; DECK; DEFLECTION TRACK AT HEAD; 5/8" TYPE "X" GYPSUM BOARD; .45" THICK RESISTANT FIBERGLASS SHEET; CEILING; 6" STEEL STUDS @ 16" O.C.; 5 1/2" SOUND ATTENUATION; 5/8" TYPE "X" GYPSUM BOARD; FLOOR

TYPE	BASE WALL WIDTH	FIRE RATING — TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
C1	7/8"		DECK; CEILING; 4"; EXISTING WALL; 7/8" HAT CHANNEL @ 16" O.C.; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
D1	3 5/8"		DECK; BRACE TO DECK AT 48" O.C; CEILING; 4"; 3 5/8" STEEL STUDS @ 16" O.C.; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
D2	3 5/8"		4 1/4"; DECK; DEFLECTION TRACK AT HEAD; CEILING; 3 5/8" STEEL STUDS @ 16" O.C.; 3 1/2" SOUND ATTENUATION; 5/8" TYPE "X" GYPSUM BOARD; FLOOR
D3	6"		6 5/8"; DECK; DEFLECTION TRACK AT HEAD; CEILING; 3 5/8" STEEL STUDS @ 16" O.C.; 5 1/2" SOUND ATTENUATION; 5/8" TYPE "X" GYPSUM BOARD; FLOOR

GENERAL NOTES

A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS & SERVICE SINK AREAS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES.

B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.

C. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.

D. REFER TO DIMENSION PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.

E. ALL PARTITIONS SCHEDULED RECEIVE WALL TILE SHALL HAVE 5/8" CEMENTITIOUS BACKER UNIT IN LIEU OF GYP BD TO FULL HEIGHT OF WALL TILE.

F. APPLY ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF ALL GYPSUM BOARD PARTITIONS WHICH HAVE SOUND ATTENUATION.

G. REFER TO STRUCTURAL DRAWINGS FOR METAL STUD BEARING WALL LOCATIONS, DETAILS AND REQUIREMENTS.

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TITLE
WALL TYPES & INTERIOR DETAILS

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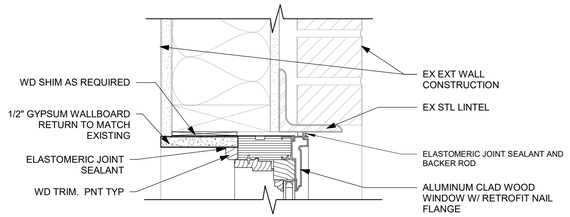
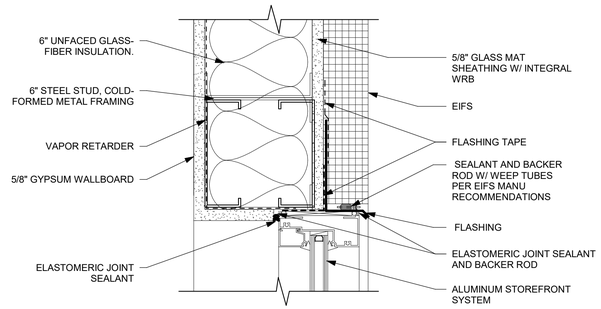
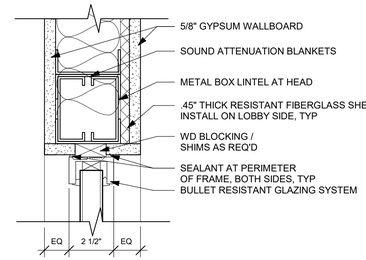


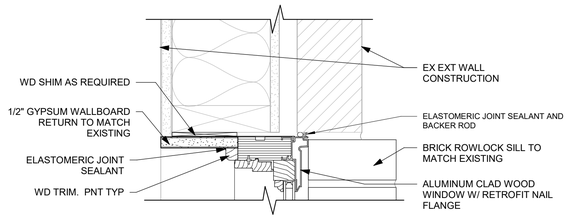
B2 HEAD DETAIL - WOOD STUD / BRICK - WINDOW W1
3" = 1'-0"



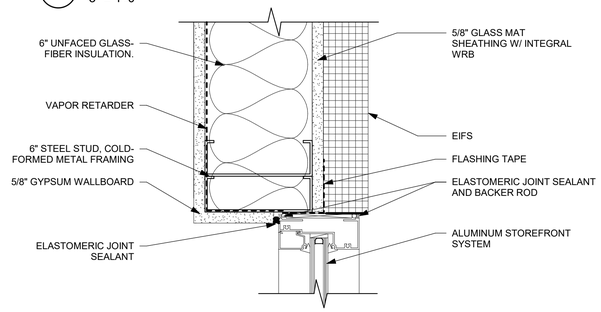
B4 HEAD DETAIL - METAL STUD W/ EIFS - WINDOW W2
3" = 1'-0"



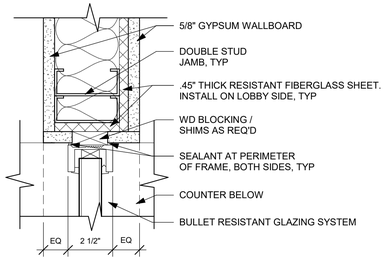
B6 HEAD DETAIL - BULLET RESISTANT GLAZING
3" = 1'-0"



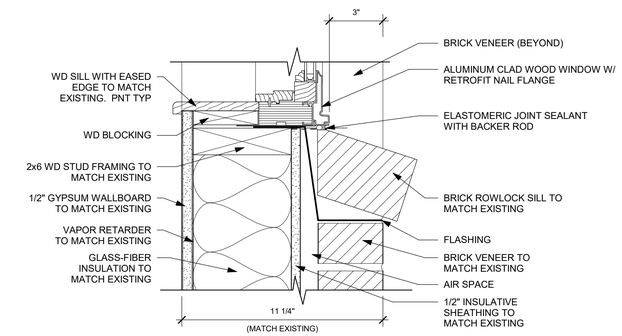
C2 JAMB DETAIL - WOOD STUD / BRICK - WINDOW W1
3" = 1'-0"



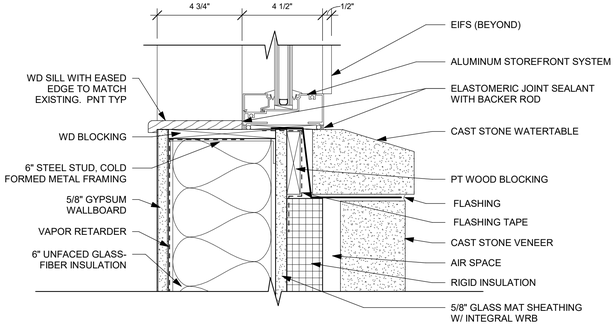
C4 JAMB DETAIL - METAL STUD W/ EIFS - WINDOW W2
3" = 1'-0"



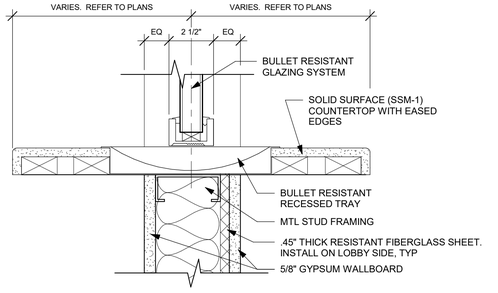
C6 JAMB DETAIL - BULLET RESISTANT GLAZING
3" = 1'-0"



E2 SILL DETAIL - WOOD STUD / BRICK - WINDOW W1
3" = 1'-0"



E4 SILL DETAIL - MTL STUD / CAST STONE - WINDOW W2
3" = 1'-0"



E6 SILL DETAIL - BULLET RESISTANT GLAZING
3" = 1'-0"

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TITLE
WINDOW DETAILS

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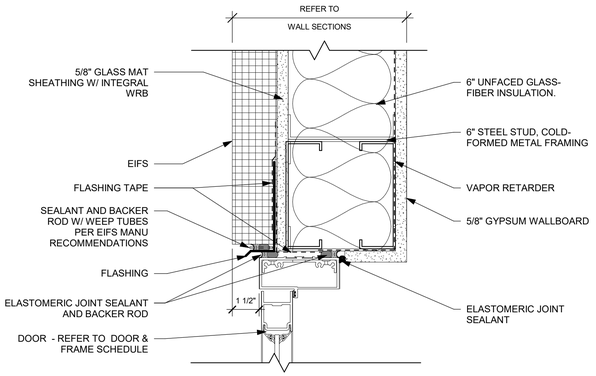
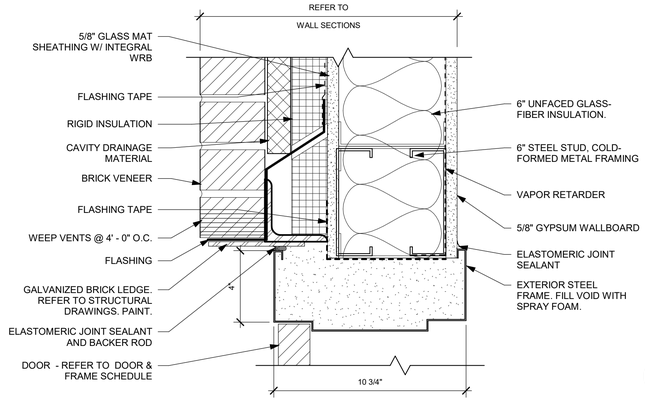
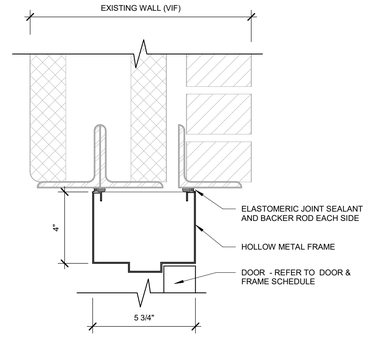


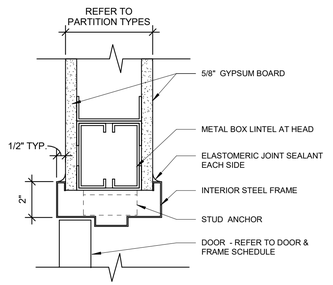
B1 EXTERIOR HEAD DETAIL - METAL STUD W/ EIFS
3" = 1'-0"



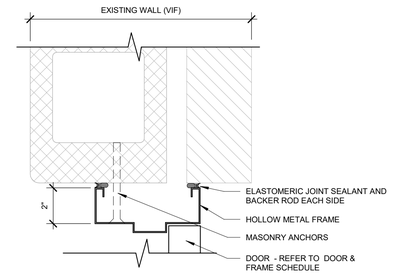
B3 EXTERIOR HEAD DETAIL - BRICK - (6" METAL STUD)
3" = 1'-0"



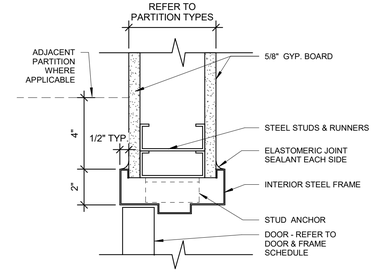
B5 HEAD DETAIL @ EXIST CMU/BRICK WALL
3" = 1'-0"



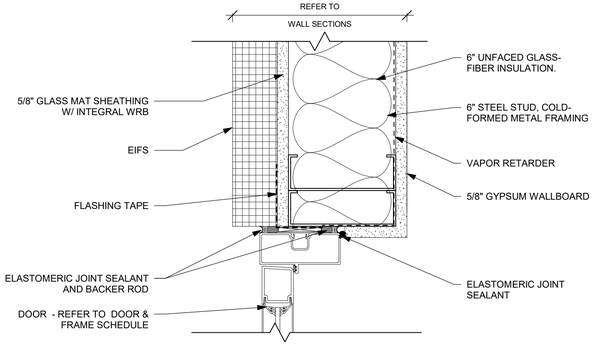
B6 HEAD DETAIL @ HM DOOR FRAME
3" = 1'-0"



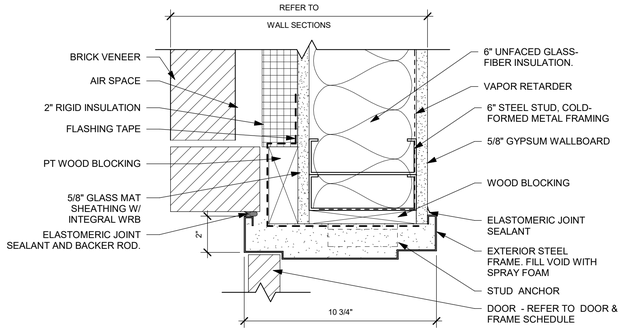
C5 JAMB DETAIL @ EXIST CMU/BRICK WALL
3" = 1'-0"



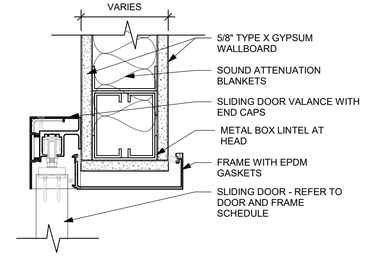
C6 JAMB DETAIL @ HM DOOR FRAME
3" = 1'-0"



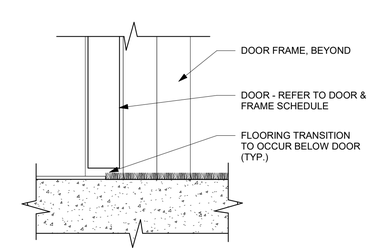
D1 EXTERIOR JAMB DETAIL - METAL STUD W/ EIFS
3" = 1'-0"



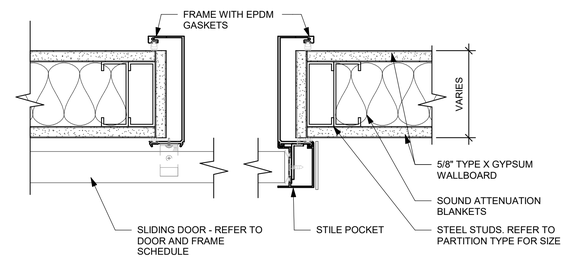
D3 EXTERIOR JAMB DETAIL - BRICK - (6" METAL STUD)
3" = 1'-0"



E5 HEAD DETAIL @ SLIDING DOOR
3" = 1'-0"



E6 TYP INTERIOR SILL DETAIL
3" = 1'-0"



F5 JAMB DETAIL @ SLIDING DOOR
3" = 1'-0"

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DOOR DETAILS

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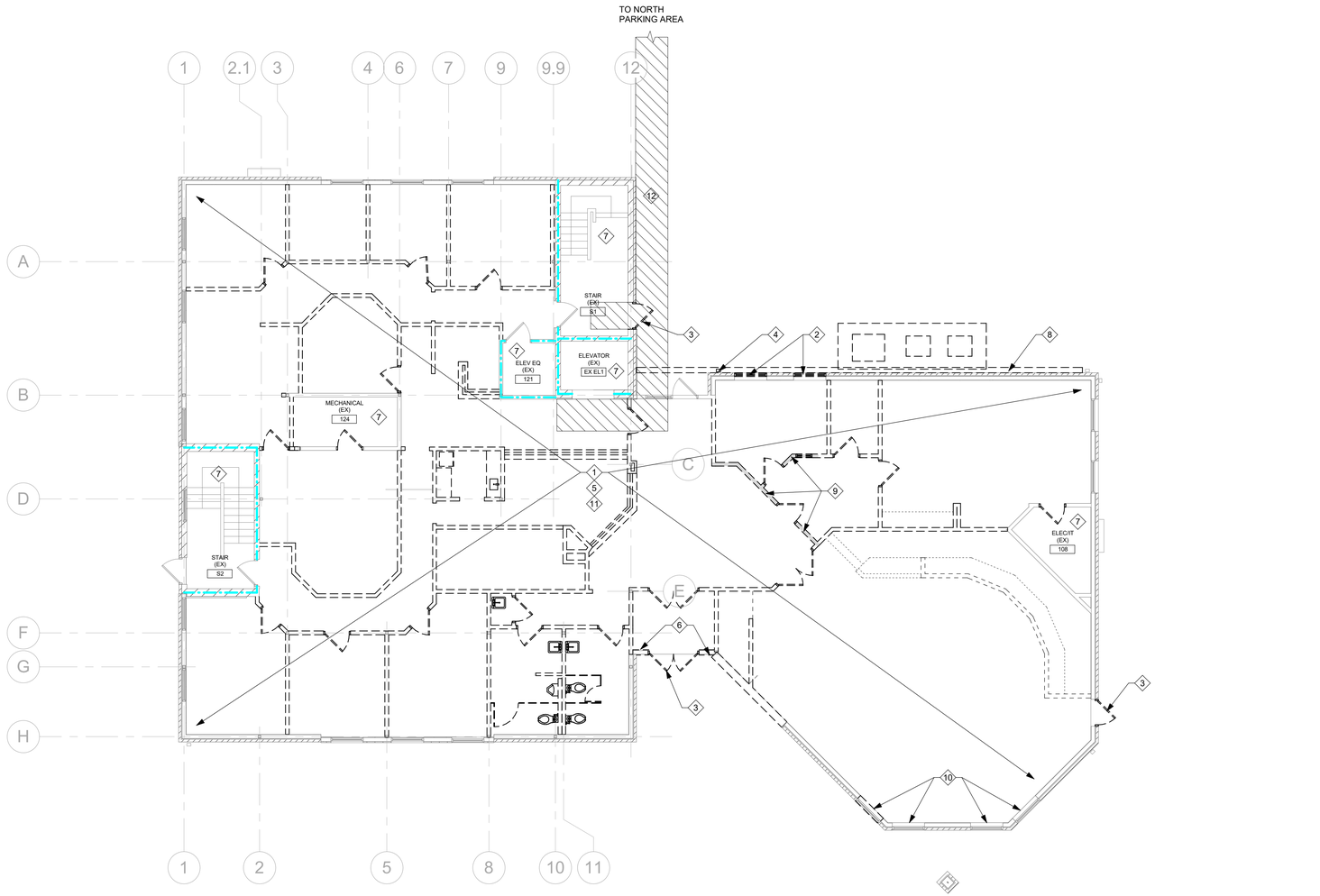

F1 FIRST FLOOR DEMOLITION PLAN - PHASE 1
1/8" = 1'-0"

DEMOLITION NOTES

INDICATES DEMOLITION NOTE.

1 COMPLETE DEMOLITION OF THE FIRST FLOOR INTERIORS. EXTERIOR PERIMETER GYP BD SHALL REMAIN. FLOOR FINISHES SHALL BE REMOVED DOWN TO EXISTING SLAB ON GRADE. CEILING FINISHES SHALL BE REMOVED TO EXPOSE UNDERSIDE OF FLOOR DECK / ROOF TRUSS SHEATHING ABOVE. PATCH AND REPAIR ALL SUBSTRATES AT DEMO LOCATION AND MAKE READY FOR NEW FINISHES.

2 WINDOW ASSEMBLY TO BE REMOVED.

3 DOOR AND FRAME ASSEMBLY TO BE REMOVED.

4 DOWNSPOUT TO BE REMOVED.

5 WINDOW BLINDS SHALL BE REMOVED AND SALVAGED FOR REINSTALLATION, TYP.

6 REMOVE INT AND EXT WALL FINISHES DOWN TO EXISTING STUD FRAMING.

7 EXISTING ROOM AND PERIMETER WALLS / DOORS TO REMAIN.

8 REMOVE GUTTER AND EIFS AT ADDITION.

9 BRG WALL TO BE REMOVED. SHORE EXISTING STRUCT PRIOR TO REMOVAL. REFER TO STRUCT DWGS FOR NEW WORK DETAILS.

10 WINDOW CASING TRIM TO BE REMOVED.

11 WINDOW SILL TRIM TO REMAIN, TYP.

12 DURING PHASE 1, MAINTAIN EMPLOYEE ACCESS FROM NORTH PARKING AREA TO STAIR S1 AND EXISTING ELEVATOR. PROVIDE TEMPORARY PARTITIONS, COVERED ENTRY AS NECESSARY. COORDINATE TEMPORARY CLOSURE OF ENTRANCE WITH OWNER.

DEMOLITION GENERAL NOTES

A. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.

C. PRIOR TO DEMOLITION, REMOVE AND STORE ITEMS TO BE SALVAGED FOR REUSE IN CONSTRUCTION OR GIVEN TO OWNER.

D. COORDINATE ALL DIMENSIONS AS SHOWN WITH NEW WORK LAYOUT.

E. EXISTING WALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES SHALL BE PREPARED IN A MANNER ACCEPTABLE TO THE FINISH MANUFACTURER.

F. INTERIOR BEARING WALLS ARE BEING REMOVED AS PART OF THE DEMOLITION SCOPE. REFER TO NEW WORK AND STRUCT DWGS FOR ADDITIONAL DETAILS.

G. REFER TO STRUCT AND MEP DWGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

H. REFER TO CIVIL DWGS FRO ADDITIONAL DEMOLITION REQUIREMENTS.

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TITLE
FIRST FLOOR DEMOLITION PLAN - PHASE 1

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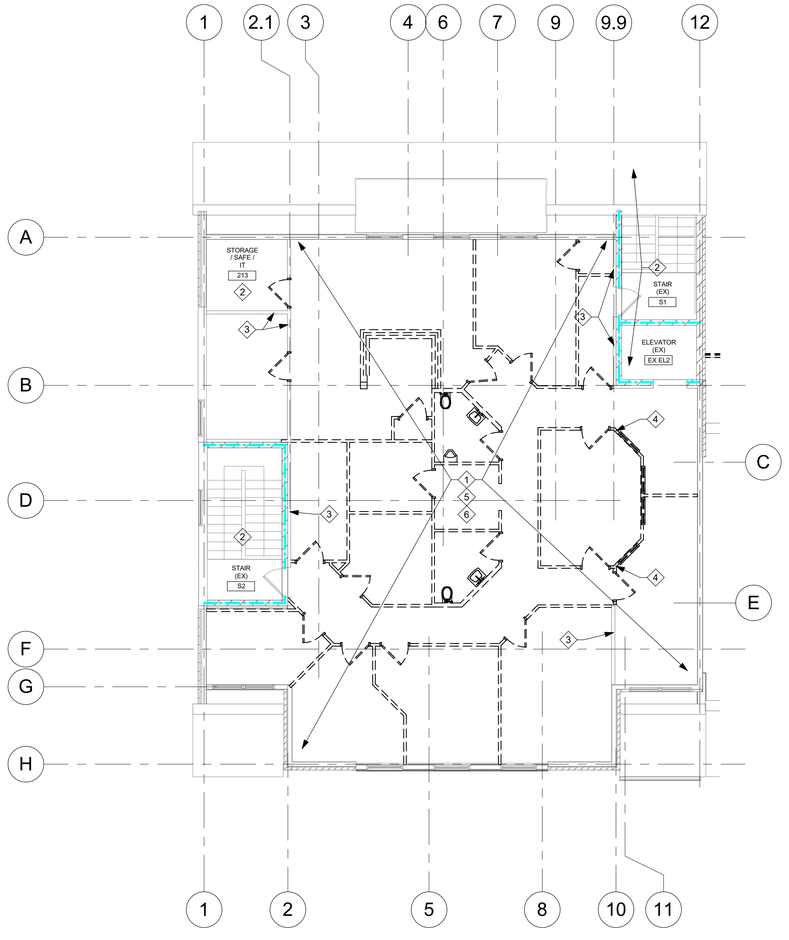

F1 SECOND FLOOR DEMOLITION PLAN - PHASE 2
1/8" = 1'-0"

DEMOLITION NOTES

◇ INDICATES DEMOLITION NOTE.

1 COMPLETE DEMOLITION OF THE SECOND FLOOR INTERIORS. EXTERIOR PERIMETER GYP BD SHALL REMAIN. FLOOR FINISHES SHALL BE REMOVED DOWN TO EXISTING CONC DECK. CEILING FINISHES SHALL BE REMOVED TO EXPOSE UNDERSIDE OF ROOF TRUSS SHEATHING ABOVE. PATCH AND REPAIR ALL SUBSTRATES AT DEMO LOCATION AND MAKE READY FOR NEW FINISHES.

2 EXISTING SPACE AND PERIMETER WALLS / DOORS TO REMAIN.

3 BEARING WALLS TO REMAIN. REFER TO STRUCT DWGS FOR ADDITIONAL DETAILS.

4 BRG WALL TO BE REMOVED. SHORE EXISTING STRUCT PRIOR TO REMOVAL. REFER TO STRUCT DWGS FOR NEW WORK DETAILS.

5 WINDOW BLINDS SHALL BE REMOVED AND SALVAGED FOR REINSTALLATION, TYP.

6 WINDOW SILL TRIM TO REMAIN, TYP.

DEMOLITION GENERAL NOTES

A. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.

C. PRIOR TO DEMOLITION, REMOVE AND STORE ITEMS TO BE SALVAGED FOR REUSE IN CONSTRUCTION OR GIVEN TO OWNER.

D. COORDINATE ALL DIMENSIONS AS SHOWN WITH NEW WORK LAYOUT.

E. EXISTING WALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES SHALL BE PREPARED IN A MANNER ACCEPTABLE TO THE FINISH MANUFACTURER.

F. INTERIOR BEARING WALLS ARE BEING REMOVED AS PART OF THE DEMOLITION SCOPE. REFER TO NEW WORK AND STRUCT DWGS FOR ADDITIONAL DETAILS.

G. REFER TO STRUCT AND MEP DWGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

H. REFER TO CIVIL DWGS FRO ADDITIONAL DEMOLITION REQUIREMENTS.

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TITLE
SECOND FLOOR DEMOLITION PLAN - PHASE 2

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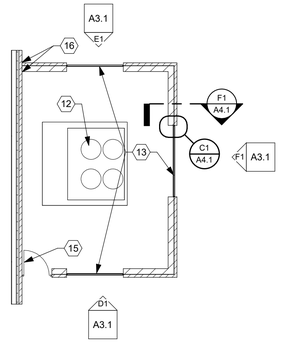
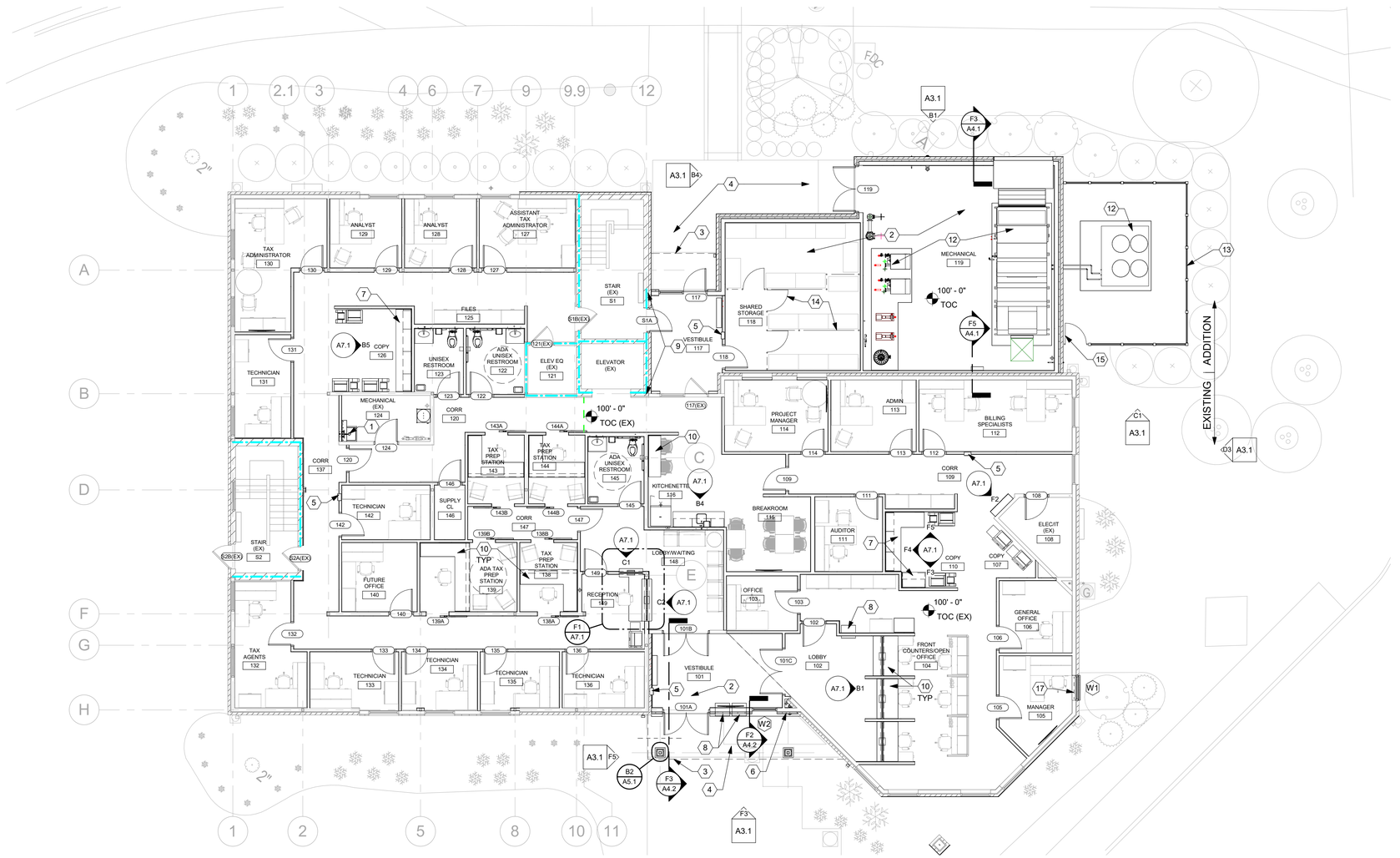


B5 SCREEN WALL - ALTERNATE 1
1/8" = 1'-0"



F1 FIRST FLOOR REFERENCE PLAN - PHASE 1
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.

2 SLAB ON GRADE. REFER TO STRUCT DWGS.

3 OUTLINE OF CANOPY ABOVE.

4 CONC WALK. REFER TO CIVIL DWGS.

5 SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.01 FOR DETAILS.

6 KNOX BOX RAPID ENTRY KEY STORAGE SYSTEM. RECESSED MOUNT @ 4'-0" A.F.F.

7 PLAM CASEWORK AND COUNTERTOP. REFER TO INTERIOR ELEVATIONS FOR DETAILS.

8 DROP BOX, OFCI.

9 PER OBC TABLE 721.1(2) RATED FIRE-RESISTANCE FOR VARIOUS WALLS, CONCRETE MASONRY UNIT ITEM NUMBER 3.1.2, THE EXISTING 8" CMU BLOCK MEETS WITH THE REQUIREMENTS FOR 1-HR RATING. EXISTING DOOR OPENING SHALL RECEIVE NEW RATED DOOR. ANY EXISTING OPENINGS / PENETRATIONS SHALL BE SEALED ACCORDINGLY.

10 WALL SUPPORTED COUNTER / WORK SURFACE.

12 MECH EQUIP. REFER TO MECH DWGS.

13 PREFIN ALUM LOUVERED SCREEN ASSEMBLY.

14 8' HIGH CHAIN LINK FENCE ASSEMBLY W/ 3' W GATES.

15 7' HIGH CHAIN LINK FENCE GATE.

16 CJ TYP.

17 WINDOW BLIND AT NEW OPENING. MATCH EXISTING STYLE AND COLOR.

CONSTRUCTION GENERAL NOTES

A. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS AND NOTES.

B. DOORS ARE 4" FROM FINISHED FACE OF WALL TO HINGE SIDE OF DOOR OPENING U.N.O.

C. WALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE U.N.O.

D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.

E. ALIGN FINISH SURFACES WHERE NEW WALL CONSTRUCTION MEETS OR IS ADJACENT TO EXISTING WALL CONSTRUCTION.

F. INSTALL SOLID WOOD BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, HANDRAILS, PLUMBING, AND TOILET FIXTURES.

G. REPAIR ALL EXISTING WALLS WHERE WALL MOUNTED ITEMS HAVE BEEN REMOVED. PREP FOR NEW FINISHES.

H. FURNITURE & EQUIPMENT ARE OFOI. SHOWN FOR REFERENCE ONLY.

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TITLE
FIRST FLOOR REFERENCE PLAN - PHASE 1

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A1.3

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F1 SECOND FLOOR REFERENCE PLAN - PHASE 2
1/8" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.

2 SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.01 FOR DETAILS.

3 PLAM CASEWORK WITH SOLID SURFACE COUNTERTOP. REFER TO INTERIOR ELEVATIONS FOR DETAILS.

4 WALL SUPPORTED COUNTER / WORK SURFACE.

5 FILL ANNULAR SPACE BETWEEN DUCTWORK AND FLOOR SLAB WITH NONCOMBUSTIBLE FILL MATERIAL PER OBC 714.6.1.

CONSTRUCTION GENERAL NOTES

A. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS AND NOTES.

B. DOORS ARE 4" FROM FINISHED FACE OF WALL TO HINGE SIDE OF DOOR OPENING U.N.O.

C. WALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE U.N.O.

D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.

E. ALIGN FINISH SURFACES WHERE NEW WALL CONSTRUCTION MEETS OR IS ADJACENT TO EXISTING WALL CONSTRUCTION.

F. INSTALL SOLID WOOD BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, HANDRAILS, PLUMBING, AND TOILET FIXTURES.

G. REPAIR ALL EXISTING WALLS WHERE WALL MOUNTED ITEMS HAVE BEEN REMOVED. PREP FOR NEW FINISHES.

H. FURNITURE & EQUIPMENT ARE OFOI. SHOWN FOR REFERENCE ONLY.

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TITLE
SECOND FLOOR REFERENCE PLAN - PHASE 2

SHEET NO.
A1.4

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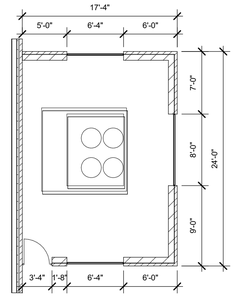
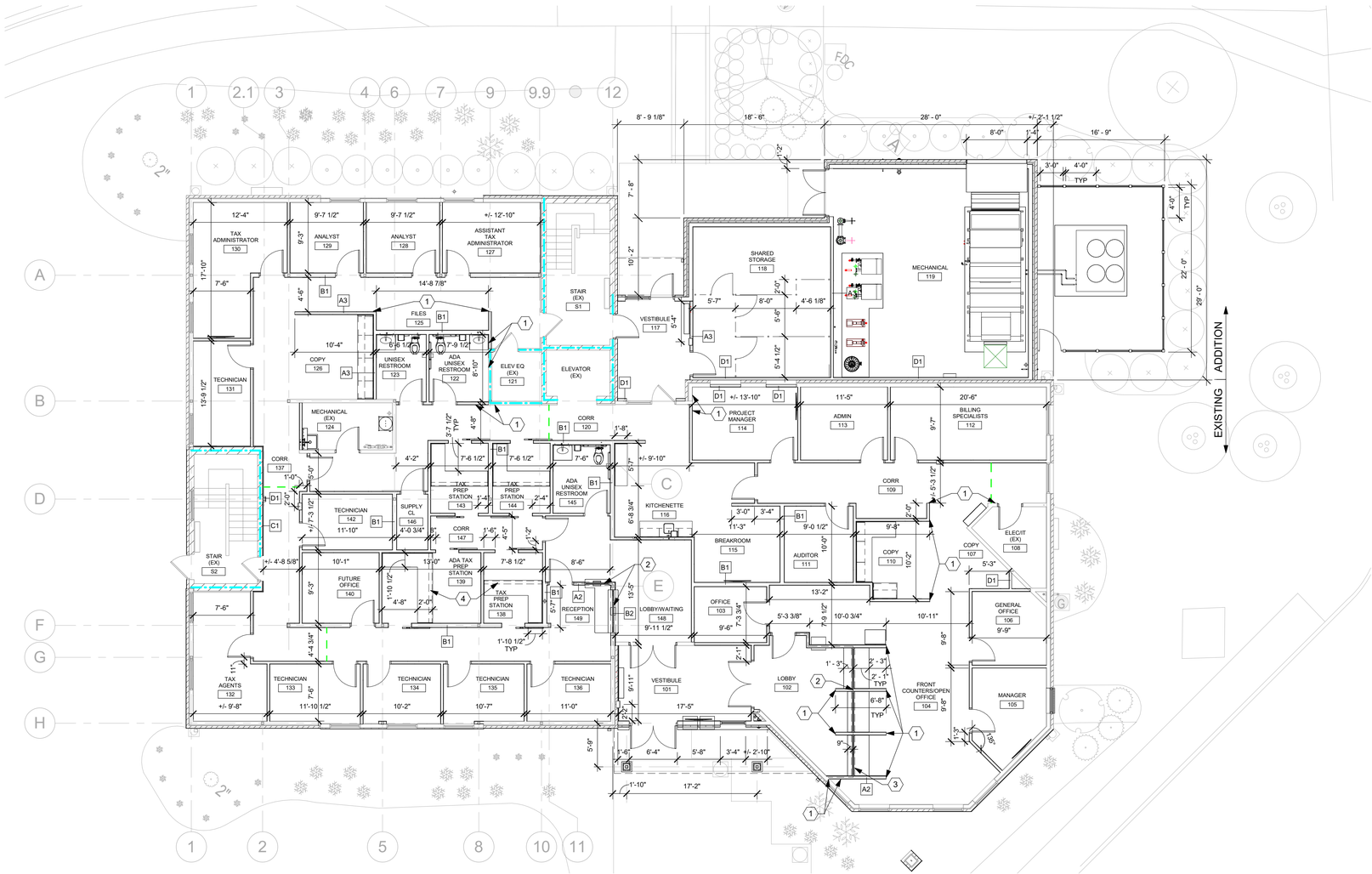


B5 SCREEN WALL - ALTERNATE 1
1/8" = 1'-0"



F1 FIRST FLOOR DIMENSION PLAN - PHASE 1
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ALIGN.

2 BULLET RESISTANT WALL PANEL SHALL BE CONTINUOUS THROUGH INTERSECTING WALLS AND ABOVE AND BELOW ALL OPENINGS TO A HEIGHT OF 8'-0" AFF, TYP.

3 WALL TYPE A2 BELOW WATER DEPT COUNTERS, TYP.

4 WALL TYPE A1 BELOW TAX PREP COUNTERS, TYP.

GENERAL NOTES

A. ALL WALLS ARE A1 U.N.O.

B. ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

G. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O. CONTRACTORS SHALL FIELD VERIFY EXISTING DIMENSIONS AND ALERT THE ARCHITECT OF AN DISCREPANCIES PRIOR TO CONSTRUCTION OF ANY PARTICULAR ELEMENT.

I. REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.

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TITLE
FIRST FLOOR DIMENSION PLAN - - PHASE 1

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A1.5

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F1 SECOND FLOOR DIMENSION PLAN - PHASE 2
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ALIGN.

GENERAL NOTES

A. ALL WALLS ARE A1 U.N.O.

B. ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

G. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O. CONTRACTORS SHALL FIELD VERIFY EXISTING DIMENSIONS AND ALERT THE ARCHITECT OF AN DISCREPANCIES PRIOR TO CONSTRUCTION OF ANY PARTICULAR ELEMENT.

I. REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.

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TITLE
SECOND FLOOR DIMENSION PLAN - PHASE 2

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A1.6

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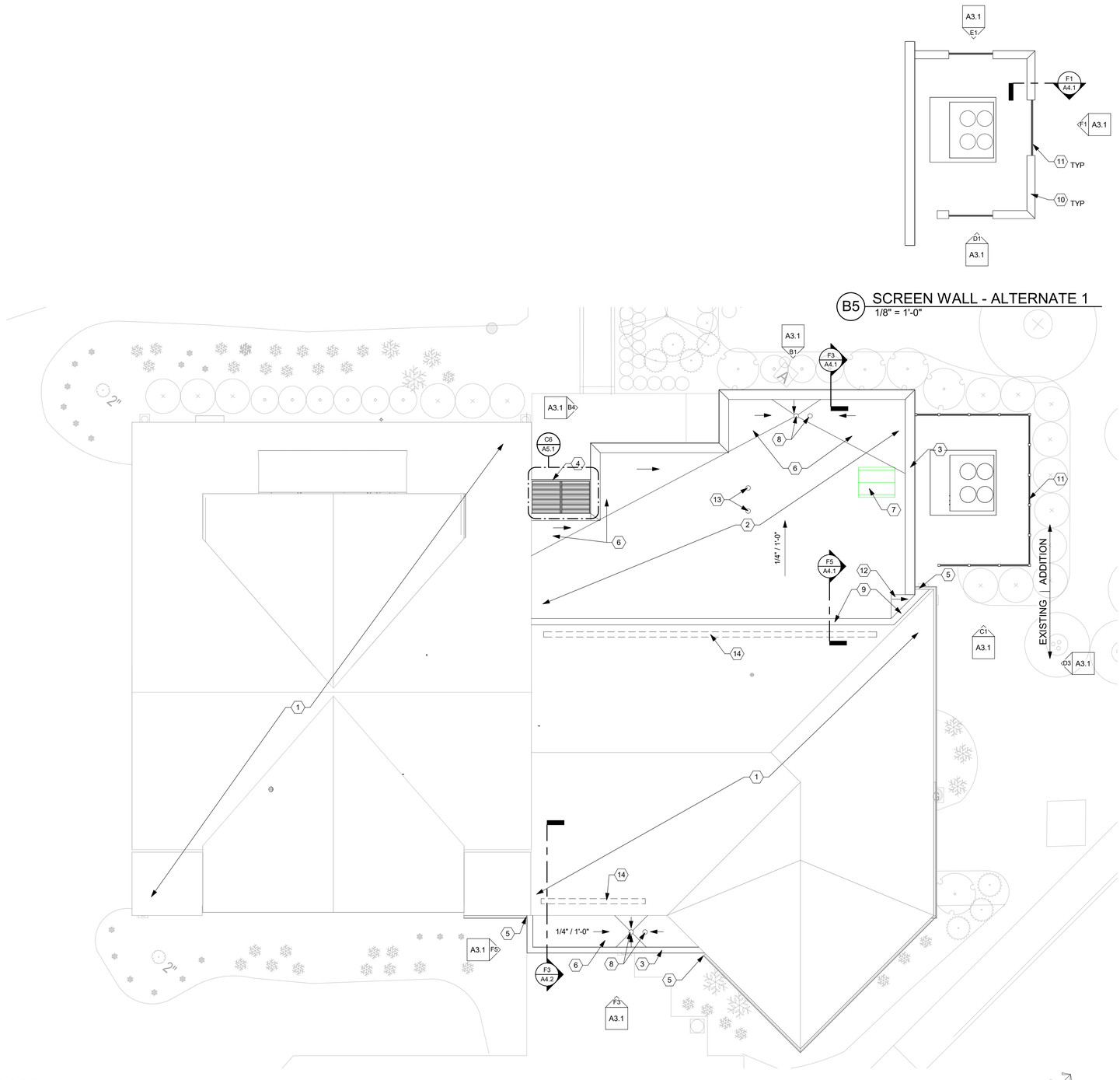

B5 SCREEN WALL - ALTERNATE 1
1/8" = 1'-0"

F1 ROOF PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 EXISTING ROOF TO REMAIN.

2 LOW SLOPE MEMBRANE ROOF ASSEMBLY.

3 PREFIN METAL COPING.

4 PRE-ENGINEERING METAL ROOF CANOPY.

5 SHORTEN AND CAP EXISTING GUTTER AT ADDITION.

6 TAPERED INSULATION OVER BASE LAYER INSULATION. 1/4" / 12" MIN SLOPE.

7 ROOF MOUNTED MECH EQUIP. REFER TO MECH DWGS.

8 PRIMARY AND SECONDARY ROOF DRAINS. REFER TO PLUMBING DWGS.

9 TRANSITION MEMBRANE ROOFING TO EXISTING SHINGLES. SEAL PER ROOFING MANUFACTURER'S RECOMMENDATIONS.

10 CAST STONE WALL CAP.

11 PREFIN ALUM LOUVERED SCREEN ASSEMBLY.

12 OVERFRAMING, ROOF SHEATHING AND FULLY ADHERED MEMBRANE VALLEY.

13 FLUE PENETRATION THROUGH ROOF. SEAL PER ROOFING MANUFACTURER'S RECOMMENDATIONS.

14 INLINE SHINGLE VENT.

GENERAL NOTES

A. COORDINATE ROOF PENETRATIONS WITH PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS.

B. ALL MEP PENETRATIONS THROUGH SHINGLE ROOF SHALL BE PAINTED TO MATCH ROOF COLOR.

ROOF PLAN LEGEND

INDICATES DIRECTION OF ROOF SLOPE.

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TITLE
ROOF PLAN

SHEET NO.
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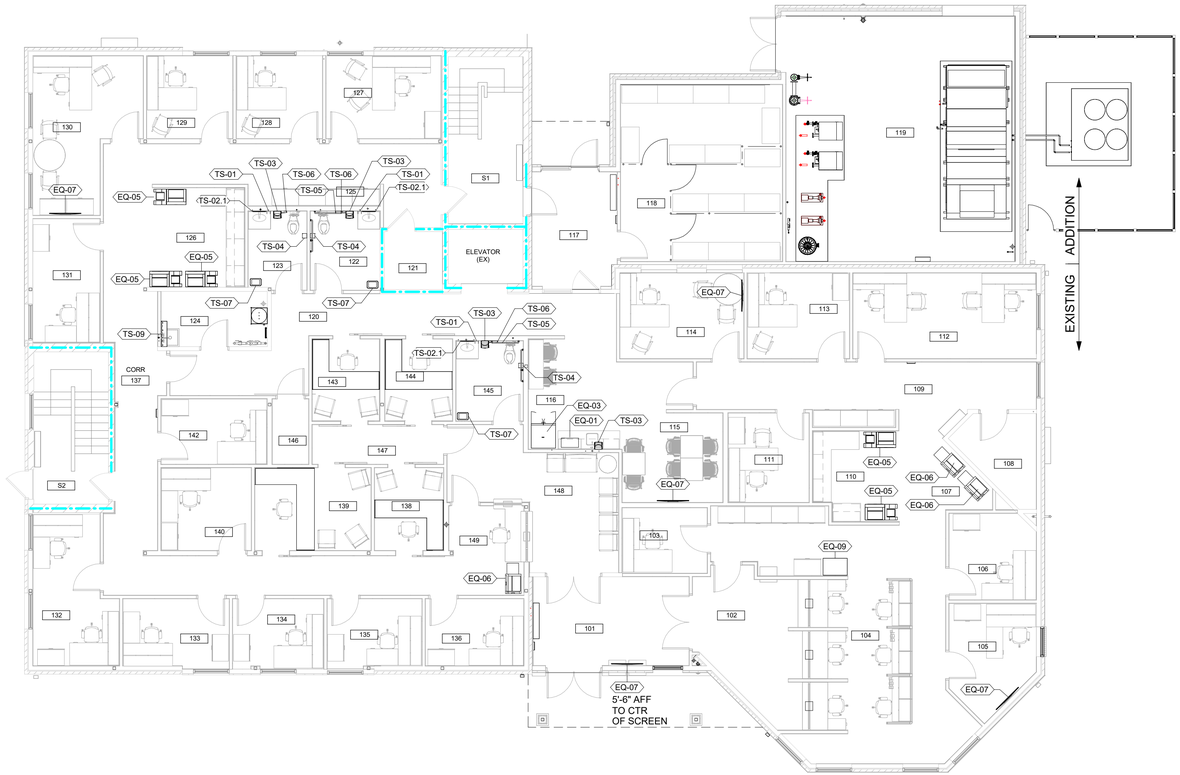
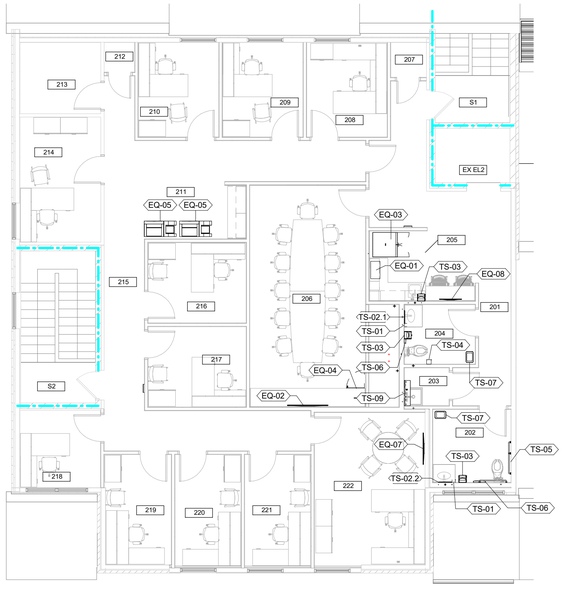


D1 FIRST FLOOR EQUIPMENT PLAN - PHASE 1
1/8" = 1'-0"



F1 SECOND FLOOR EQUIPMENT PLAN - PHASE 2
1/8" = 1'-0"

EQUIPMENT SCHEDULE OFOI		
TYPE	DESCRIPTION	COMMENTS
EQ-01	MICROWAVE	
EQ-02	TELEVISION - 60"	
EQ-03	SIDE-BY-SIDE REFRIGERATOR WITH ICE AND WATER DISPENSER	
EQ-04	UNDERCOUNTER REFRIGERATOR	
EQ-05	PRINT / COPIER	
EQ-06	PRINT / COPIER	
EQ-07	TELEVISION - 46"	MOUNT 4'-10" AFF TO CENTER OF SCREEN, UNO
EQ-08	TELEVISION - 32"	MOUNT 4'-10" AFF TO CENTER OF SCREEN
EQ-09	SAFE	

EQUIPMENT SCHEDULE CFCI		
TYPE	DESCRIPTION	COMMENTS
TS-01	SURFACE MOUNTED SOAP DISPENSER	REFER TO SPECIFICATIONS
TS-02.1	18" X 36" MIRROR	REFER TO SPECIFICATIONS
TS-02.2	18" X 30" MIRROR	REFER TO SPECIFICATIONS
TS-03	AUTOMATIC ROLL PAPER TOWEL DISPENSER	REFER TO SPECIFICATIONS
TS-04	TOILET TISSUE DISPENSER	REFER TO SPECIFICATIONS
TS-05	GRAB BAR, STAINLESS STEEL, (3) PIECE ASSEMBLY, 18" X 1.5" DIA. 36" X 1.5" DIA. DIA. 42" X 1.5" DIA.	REFER TO SPECIFICATIONS
TS-06	SURFACE MOUNTED SEAT COVER DISPENSER	REFER TO SPECIFICATIONS
TS-07	WASTE RECEPTACLE	REFER TO SPECIFICATIONS
TS-09	MOP RACK W/ SHELF	REFER TO SPECIFICATIONS

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TITLE
EQUIPMENT PLANS - PHASE 1 & 2

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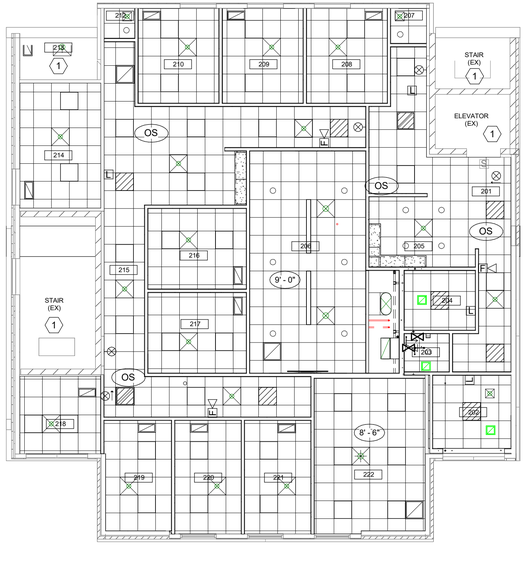
D1 FIRST FLOOR REFLECTED CEILING PLAN - PHASE 1
1/8" = 1'-0"



F1 SECOND FLOOR REFLECTED CEILING PLAN - PHASE 2
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 EXISTING CEILING TO REMAIN. NO NEW FINISHES.

2 5/8" GYP BD SECURED TO UNDERSIDE OF ROOF TRUSSES.

3 PRE-ENGINEERING METAL ROOF CANOPY.

4 EIFS SOFFIT ASSEMBLY.

5 SOFFIT VENT ASSEMBLY.

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIALS LEGEND, AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES.

B. LAYOUT GRIDS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES. BORDER TILES TO BE 3" MINIMUM U.N.O. INSTALL EDGE MOLDING AT PERIMETER U.N.O.

C. REFER TO MEP DRAWINGS FOR DEVICE DESCRIPTIONS.

D. ALL EXPOSED GYPSUM BOARD SURFACES SHALL BE PAINTED.

E. GENERAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL ALERTING SYSTEM DEVICES WITH THE DEVICES SHOWN ON THIS PLAN.

F. GYPSUM BOARD CEILINGS TO BE PAINTED P-1 U.N.O.

G. APC CEILINGS TO BE INSTALLED AT 8'-1" AFF U.N.O.

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TITLE
REFLECTED CEILING PLANS - PHASE 1 & 2

SHEET NO.
A2.1

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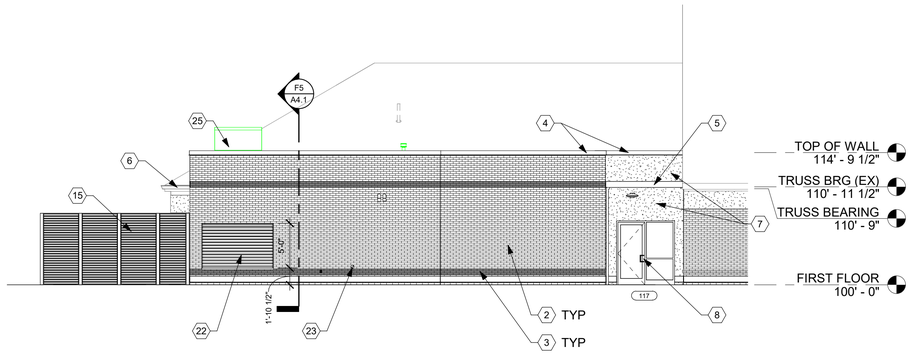
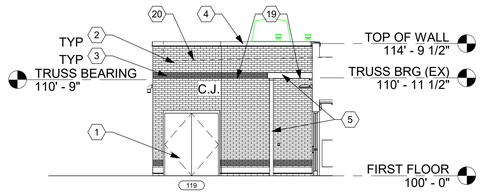
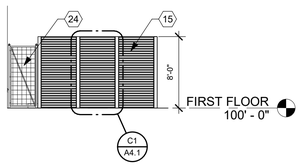


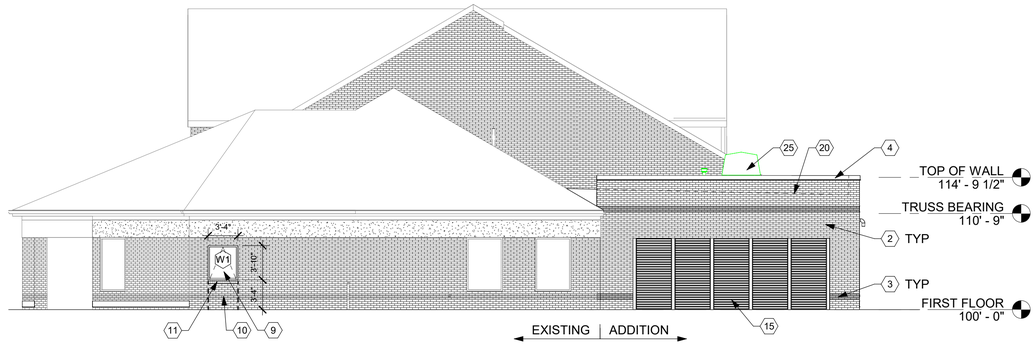
B1 NORTH ELEVATION
1/8" = 1'-0"



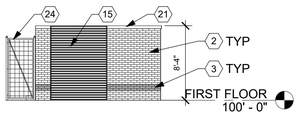
B4 WEST ELEVATION
1/8" = 1'-0"



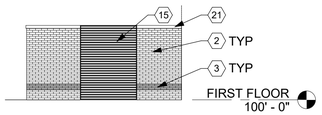
C1 SOUTH SCREEN WALL ELEVATION
1/8" = 1'-0"



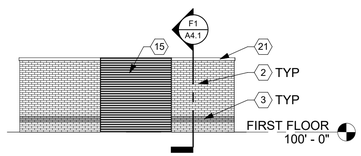
D3 EAST ELEVATION
1/8" = 1'-0"



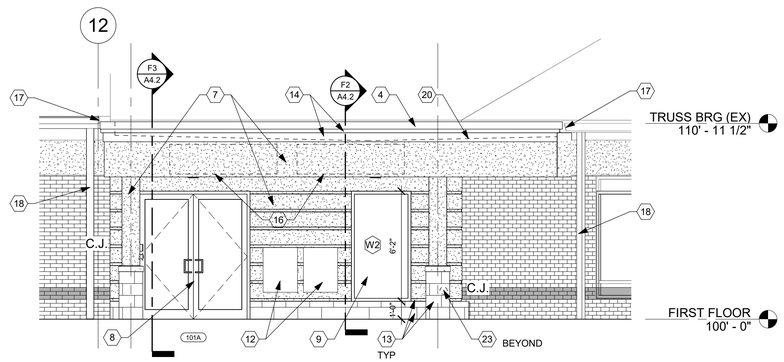
D1 SOUTH SCREEN WALL ELEV - ALTERNATE 1
1/8" = 1'-0"



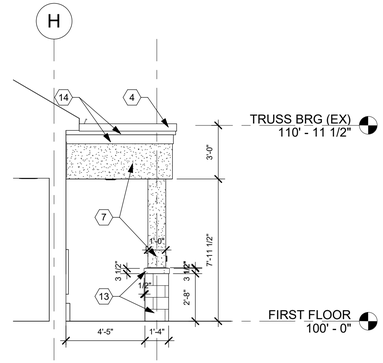
E1 NORTH SCREEN WALL ELEV - ALTERNATE 1
1/8" = 1'-0"



F1 EAST SCREEN WALL ELEV - ALTERNATE 1
1/8" = 1'-0"



F3 ENTRY CANOPY - FRONT ELEVATION
1/4" = 1'-0"



F5 ENTRY CANOPY - SIDE ELEVATION
1/4" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 HM DOOR & FRAME.

2 BRICK VENEER - FIELD COLOR TO MATCH EXISTING.

3 BRICK VENEER - ACCENT COLOR. MATCH AND ALIGN W/ EXISTING.

4 PREFIN METAL COPING.

5 PREFIN PRE-ENGINEERING METAL ROOF CANOPY WITH DOWNSPOUT.

6 SHORTEN AND CAP EXISTING GUTTER AT ADDITION.

7 EIFS FINISH.

8 ALUM STOREFRONT ASSEMBLY.

9 ALUM CLAD WOOD WINDOW ASSEMBLY.

10 INFILL WALL ASSEMBLY TO MATCH EXISTING. TOOTH IN BRICK VENEER, TYP.

11 BRICK ROWLOCK WINDOW SILL TO MATCH EXISTING.

12 DROP BOX (OFCI). CONFIRM SIZE AND MOUNTING HEIGHT.

13 CAST STONE VENEER (8"x16" RUNNING BOND) AND WATERTABLE.

14 PREFIN METAL FASCIA OVER 2x TREATED WOOD.

15 PREFIN ALUM LOUVERED SCREEN ASSEMBLY.

16 SIGNAGE BY OWNER.

17 SHORTEN AND CAP EXISTING GUTTER AT ADDITION.

18 RELOCATE EXISTING DOWNSPOUT.

19 ALIGN.

20 APPROXIMATE ROOF SURFACE BEYOND.

21 CAST STONE WALL CAP.

22 PREFIN LOUVER. REFER TO MECH DWGS.

23 ROOF OVERFLOW OUTLET. REFER TO PLUMBING DWGS.

24 CHAIN LINK GATE ASSEMBLY.

25 MECH EQUIP. PAINT WHERE EXPOSED TO VIEW, TYP.

GENERAL NOTES

A. "C.J" = MASONRY CONTROL JOINT.

B. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

C. NEW AND MODIFIED DOWNSPOUTS SHALL BE CONNECTED TO UNDERGROUND STORM, TYP. REFER TO CIVIL DWGS FOR ADDITIONAL DETAILS.

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TITLE
EXTERIOR ELEVATIONS

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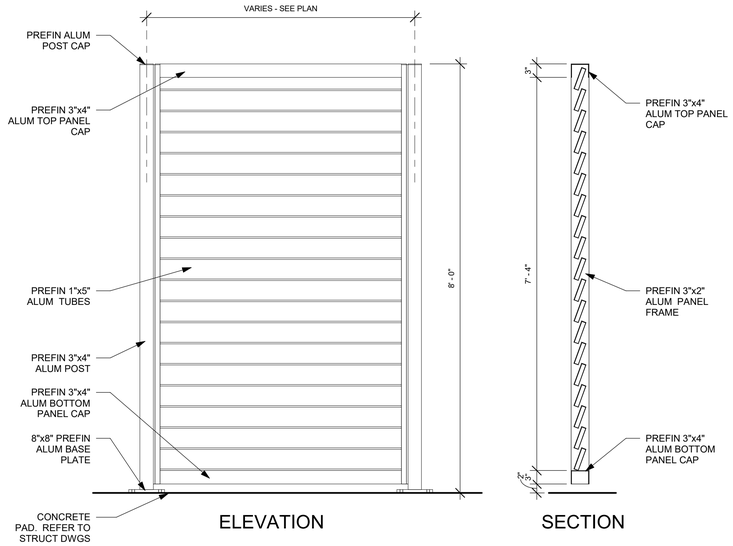
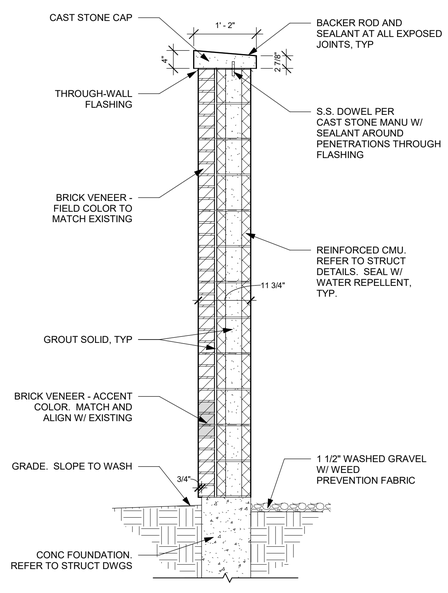
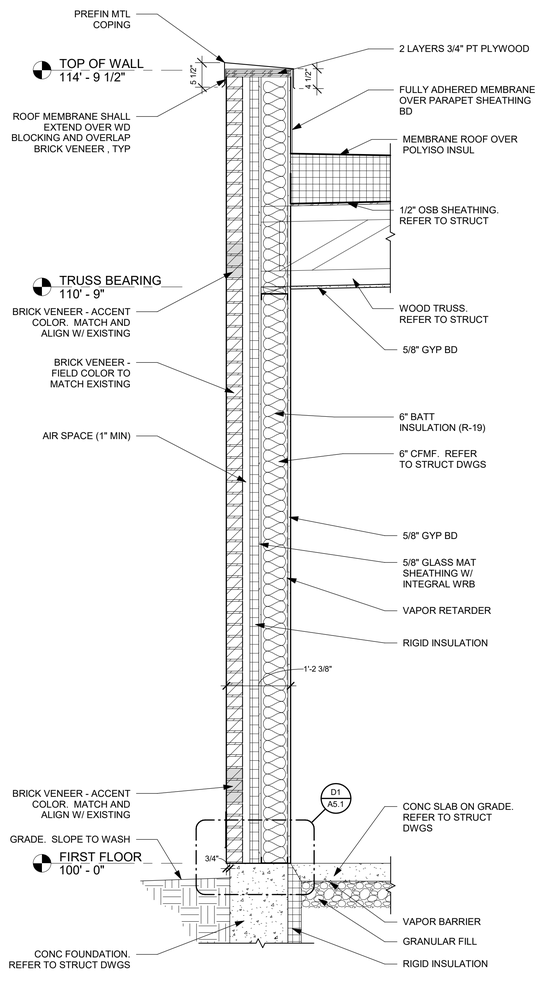


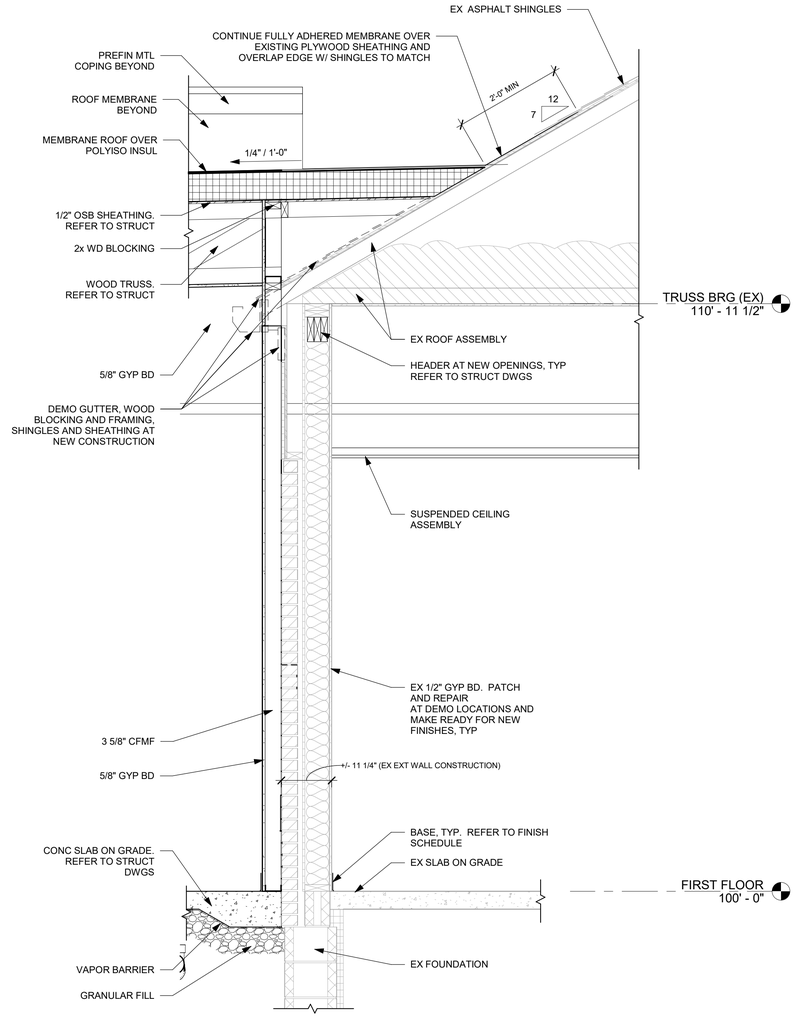
C1 LOUVERED SCREEN (BASE BID)
3/4" = 1'-0"



F1 SCREEN WALL SECTION (ALTERNATE 1)
3/4" = 1'-0"



F3 WALL SECTION
3/4" = 1'-0"



F5 WALL SECTION
3/4" = 1'-0"

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TITLE
WALL SECTIONS

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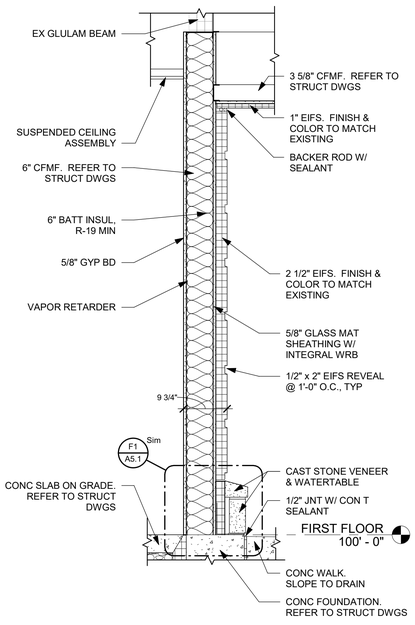
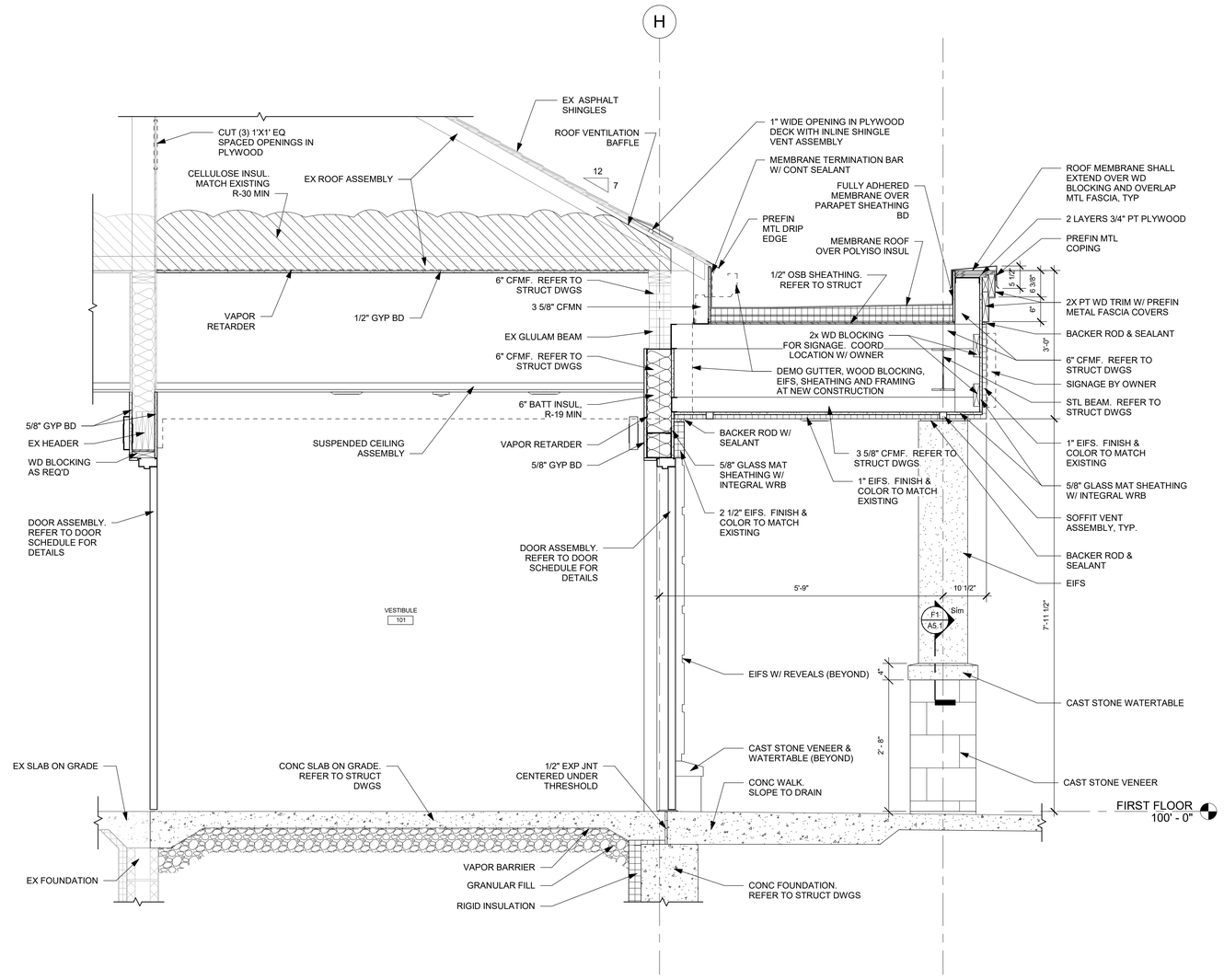


F2 WALL SECTION
3/4" = 1'-0"



F3 WALL SECTION @ PUBLIC ENTRANCE
3/4" = 1'-0"

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STATE OF OHIO TIMOTHY J. BEMENT REGISTERED ARCHITECT 12300 TESTED APPROVED

Timothy J. Bement, License #12305
Expiration Date 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE		
NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DAW
CHECKED	TJB

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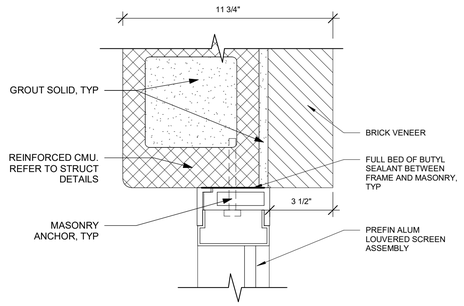
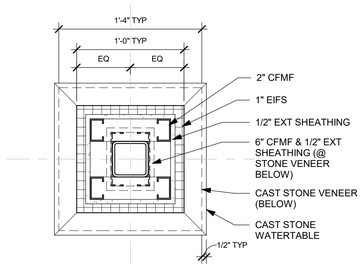
TITLE
WALL SECTIONS

SHEET NO.
A4.2

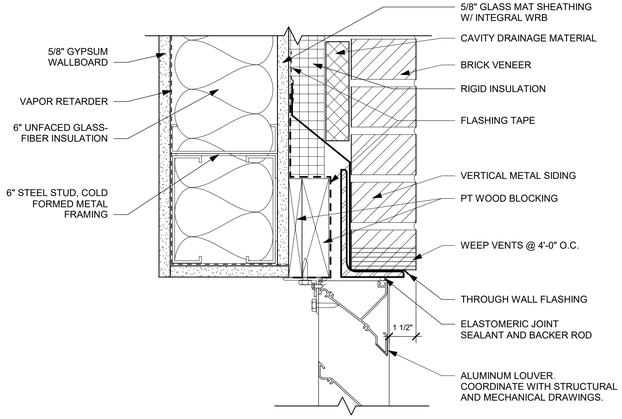
11/11/2025 3:44:17 PM



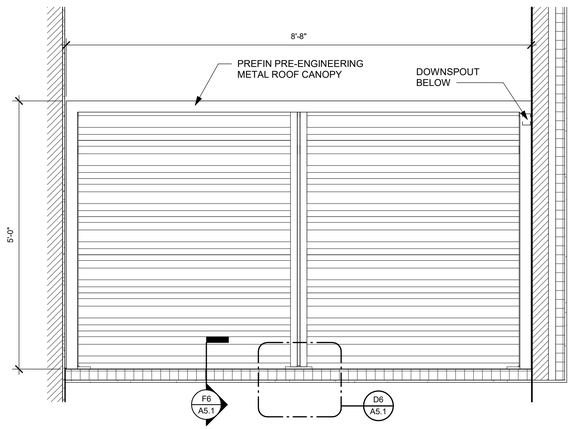
B1 SCREEN WALL - LOUVER JAMB DETAIL
3" = 1'-0"



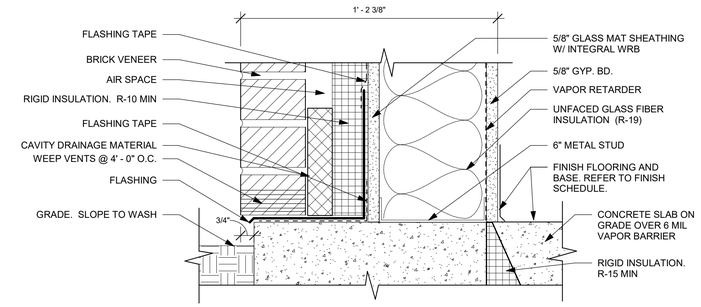
B2 ENTRY COLUMN PLAN DETAIL
1 1/2" = 1'-0"



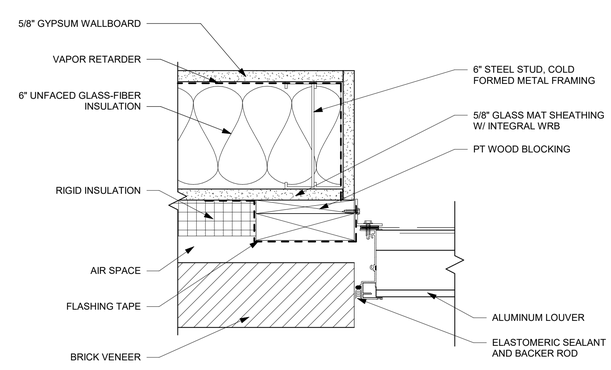
C3 LOUVER HEAD DETAIL
3" = 1'-0"



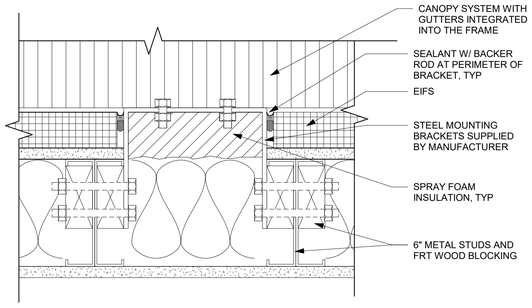
C6 CANOPY ENLARGED PLAN
3/4" = 1'-0"



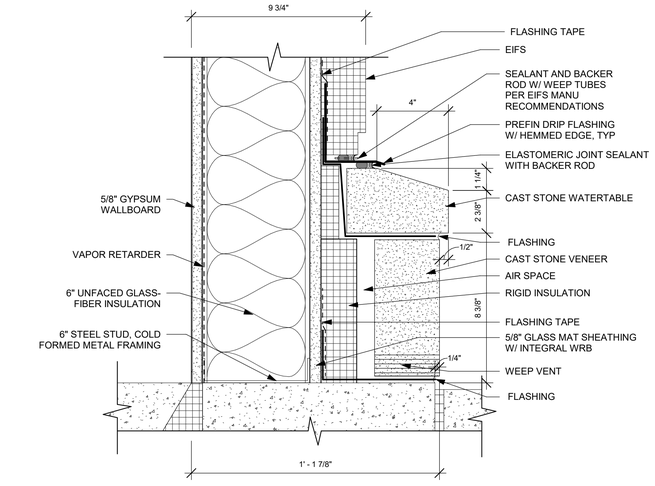
D1 BASE OF WALL DETAIL - MTL STUD / BRICK VENEER
3" = 1'-0"



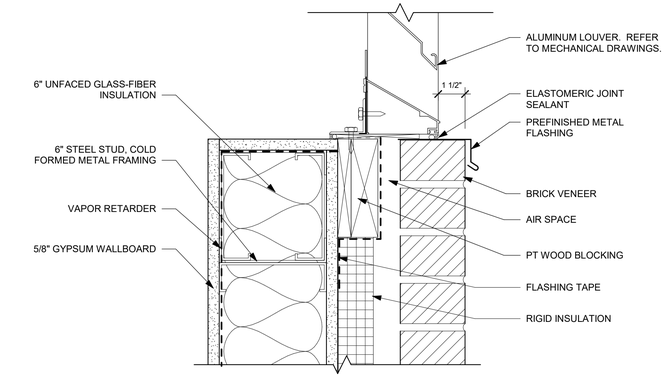
D3 LOUVER JAMB DETAIL
3" = 1'-0"



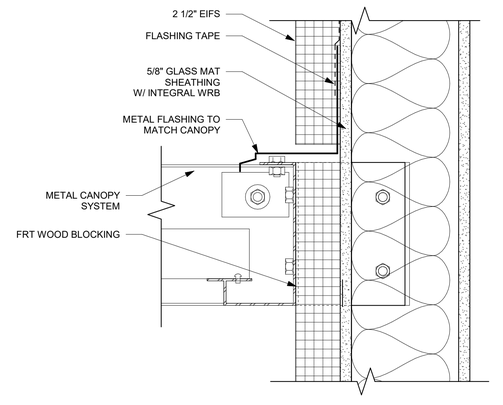
D6 CANOPY CONNECTIOIN DETAIL @ EIFS WALL
3" = 1'-0"



F1 BASE OF WALL DETAIL - MTL STUD / CAST STONE / EIFS
3" = 1'-0"



F3 LOUVER SILL DETAIL
3" = 1'-0"



F6 CANOPY DETAIL @ EIFS WALL
3" = 1'-0"

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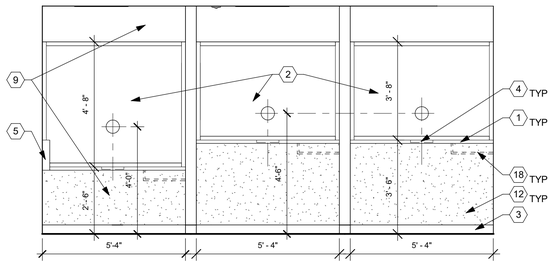
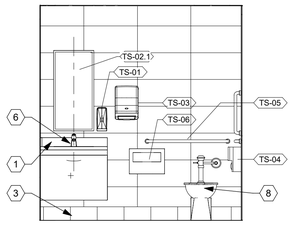
TITLE
EXTERIOR DETAILS

SHEET NO.
A5.1

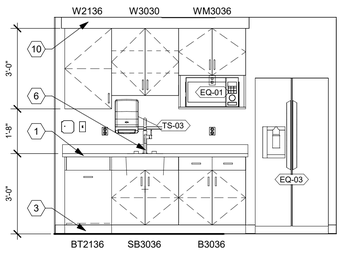
10/29/2025 3:28:42 PM



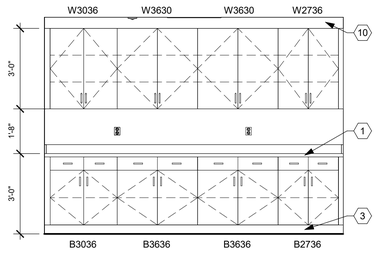
B1 102 LOBBY EAST
3/8" = 1'-0"



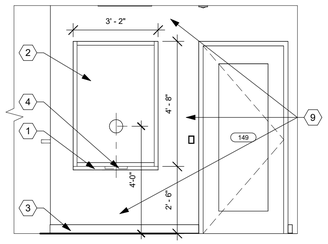
B3 TYPICAL RESTROOM
3/8" = 1'-0"



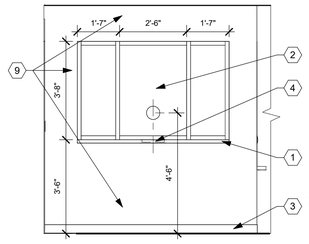
B4 116 KITCHENETTE SOUTH
3/8" = 1'-0"



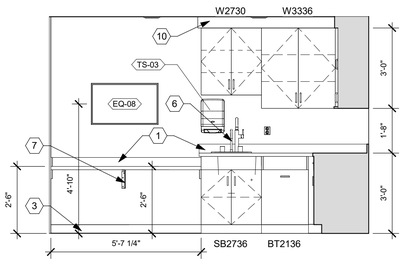
B5 126 COPY EAST
3/8" = 1'-0"



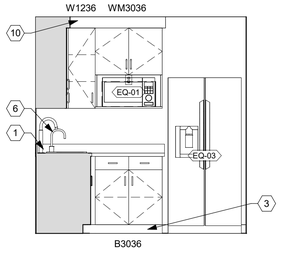
C1 148 LOBBY/WAITING SOUTH
3/8" = 1'-0"



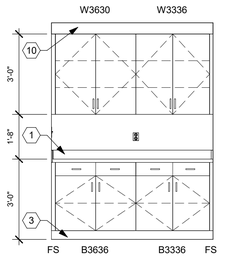
C2 148 LOBBY/WAITING WEST
3/8" = 1'-0"



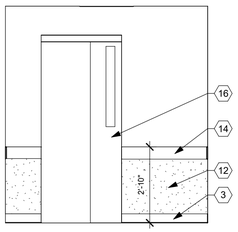
C3 205 KITCHENETTE SOUTH
3/8" = 1'-0"



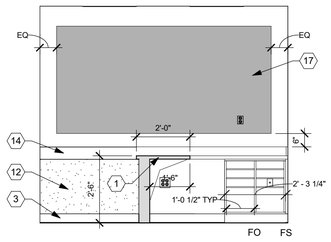
C5 205 KITCHENETTE WEST
3/8" = 1'-0"



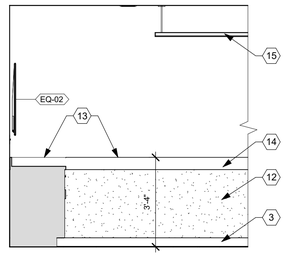
C6 211 COPY EAST
3/8" = 1'-0"



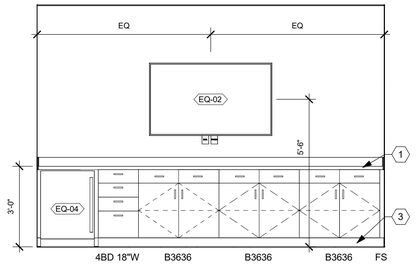
E1 TAX PREP ENTRY WALL,TYP
3/8" = 1'-0" ROOMS 138, 139, 143 & 144



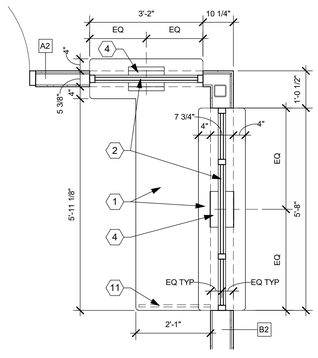
E3 TAX PREP SIDE WALL, TYP
3/8" = 1'-0" ROOMS 138, 139, 143 & 144



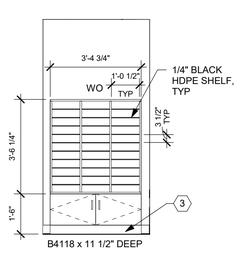
E4 206 CONFERENCE ROOM WEST
3/8" = 1'-0" NORTH & EAST (SIM)



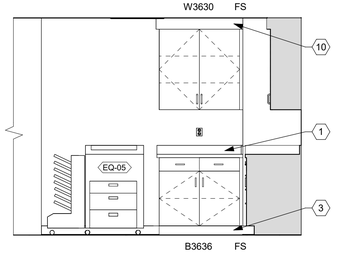
E5 206 CONFERENCE ROOM SOUTH
3/8" = 1'-0"



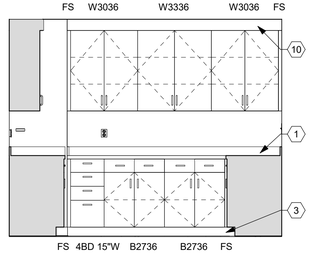
F1 149 RECEPTION ENLARGED PLAN
1/2" = 1'-0"



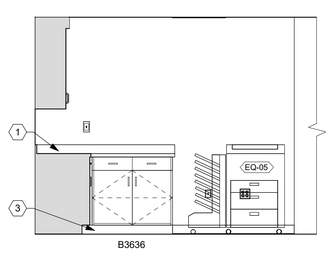
F2 109 CORR SOUTHEAST
3/8" = 1'-0"



F3 110 COPY SOUTH
3/8" = 1'-0"



F4 110 COPY WEST WALL
3/8" = 1'-0"



F5 110 COPY NORTH WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1 SOLID SURFACE COUNTERTOP. (SSM-1)

2 BULLET RESISTANT WINDOW ASSEMBLY W/ NATURAL SPEAK THRU.

3 FLOOR BASE, TYP. REFER TO FINISH DRAWINGS.

4 BULLET RESISTANT TRANSACTION TRAY CENTERED UNDER GLASS AND WITHIN OPENING, TYP.

5 DROP BOX (OFCI). CONFIRM SIZE AND MOUNTING HEIGHT.

6 SINK & FAUCET. REFER TO PLUMBING DRAWINGS.

7 METAL SUPPORT BRACKETS @ 4' - 0" 0.C. MAX.

8 TOILET FIXTURE. REFER TO PLUMBING DRAWINGS.

9 BULLET RESISTANT WALL PANEL SHALL BE CONTINUOUS THROUGH INTESECTING WALLS AND ABOVE AND BELOW ALL OPENINGS TO A HEIGHT OF 8'-0" AFF, TYP.

10 GYP BD SOFFIT. PAINTED, TYP.

11 3/4" PLASTIC LAMINATE END CAP AT OPEN END, TYP.

12 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE.

13 ALIGN.

14 SOLID SURFACE CHAIR RAIL. (SSM-1)

15 LIGHT FIXTURE. REFER TO ELEC DWGS.

16 DOOR ASSEMBLY. REFER TO DOOR SCHEDULE.

17 ACOUSTICAL WALL PANEL (AP-1). 4'x8' PANEL CENTERED ON WALL, TYP. REFER TO MATERIAL SCHEDULE.

18 3/4" PLAM CASH DRAWER SLOT BEYOND. CONFIRM OPENING SIZE WITH OWNER.

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIAL LEGEND, AND FINISHES PLANS FOR FINISH AND MATERIAL DETAILS.

B. PME INFORMATION SHOWN FOR REFERENCE ONLY. REFER TO PME PLANS FOR DETAILS.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

F. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

G. PROVIDE FINISHED END ON ALL EXPOSED SURFACES OF CASEWORK.

H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD, UNLESS NOTED OTHWISE.

I. REFER TO THE NEW WORK DIMENSION PLAN ON SHEET A1.5 & A1.6 FOR WALL TYPES.

J. (L) INDICATES A LOCK ON THE CASEWORK DOORS/DRAWERS.

CASEWORK LEGEND

B - BASE CABINET
4BD - 4 DRAWER BASE CABINET
BT - BASE TRASH CABINET
W / WD - WALL CABINET
WM - WORK ORDER
WO - OPEN SHELF WALL CABINET
FO - FILE CABINET
FS - FILLER STRIP
SB - SINK BASE

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TITLE
INTERIOR ELEVATIONS

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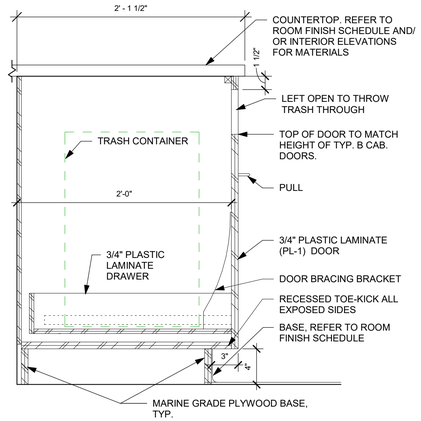
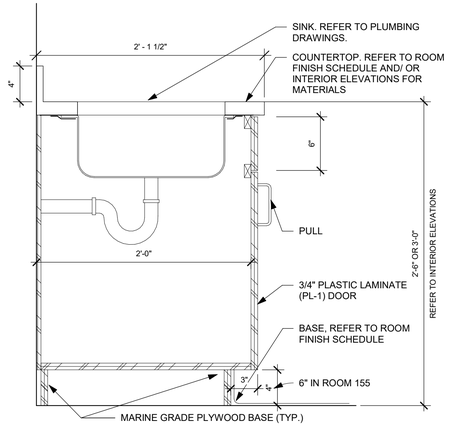
A7.1

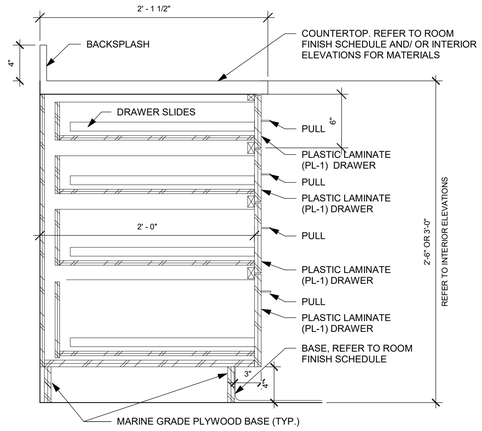
10/29/2025 3:28:46 PM



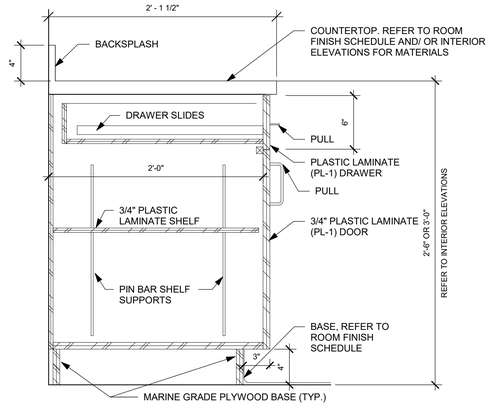
D1 TYP. TRASH BASE CABINET (BT) DETAIL
1 1/2" = 1'-0"



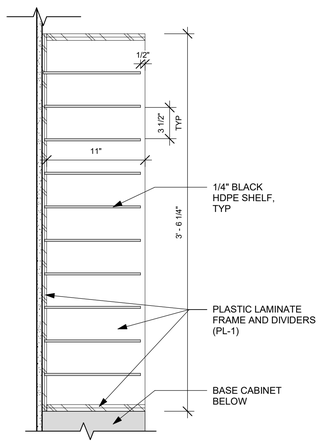
D2 TYP. SINK BASE CABINET (SB) DETAIL
1 1/2" = 1'-0"



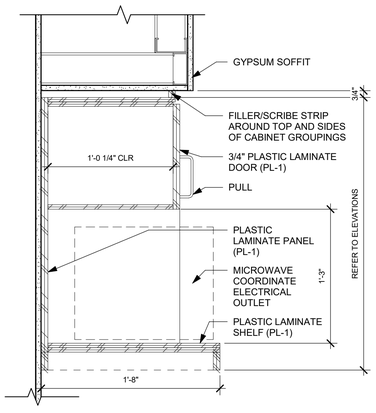
D4 4-DRAWER BASE CABINET (4BD) DETAIL
1 1/2" = 1'-0"



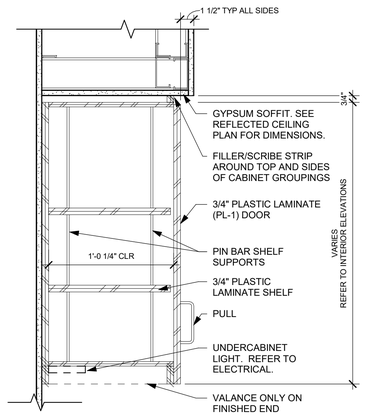
D6 1 DRAWER BASE CABINET (B) DETAIL
1 1/2" = 1'-0"



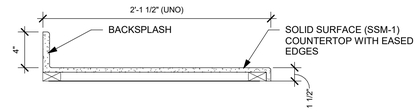
E1 WORK ORDERS (WO) DETAIL
1 1/2" = 1'-0"



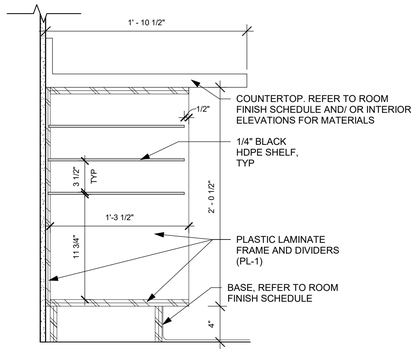
E3 MICROWAVE CABINET (WM) DETAIL
1 1/2" = 1'-0"



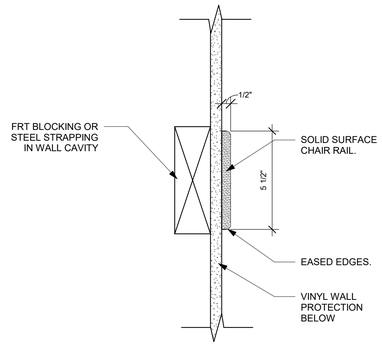
B4 WALL CABINET (W / WD) AT SOFFIT
1 1/2" = 1'-0"



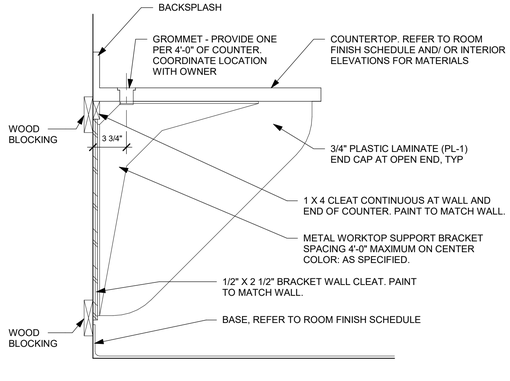
B6 TYP. COUNTER DETAILS
1 1/2" = 1'-0"



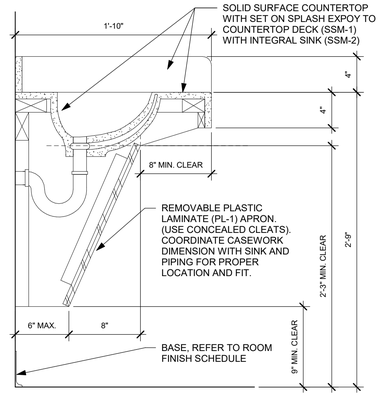
F1 FORMS (FO) DETAIL
1 1/2" = 1'-0"



F3 CHAIR RAIL DETAIL
3" = 1'-0"



F4 TYP. COUNTER / WORK SURFACE DETAIL
1 1/2" = 1'-0"



F6 "ADA" SINK (SADA) DETAIL
1 1/2" = 1'-0"

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TITLE
CASEWORK DETAILS

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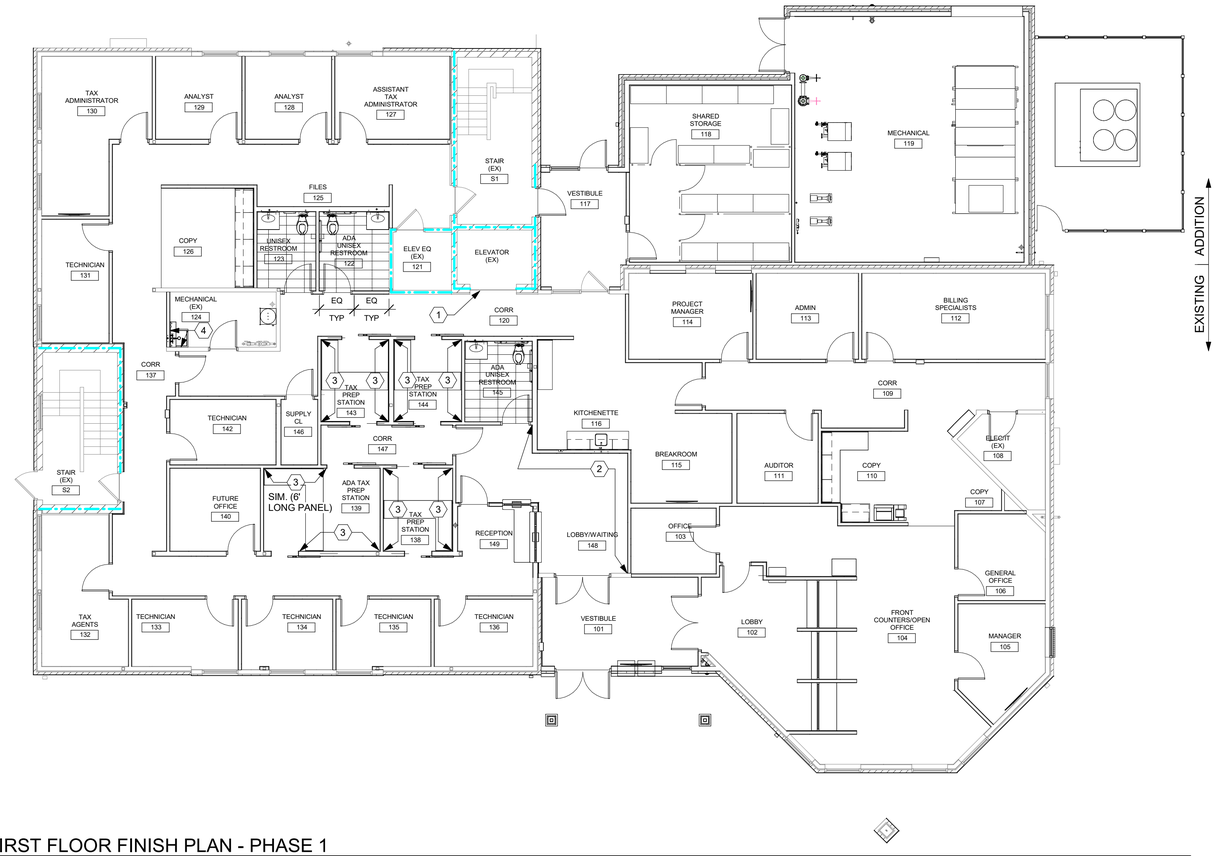
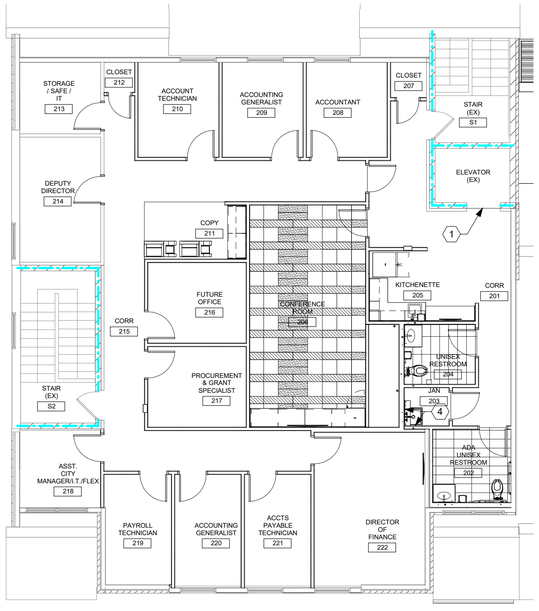


D1 FIRST FLOOR FINISH PLAN - PHASE 1
1/8" = 1'-0"



F1 SECOND FLOOR FINISH PLAN - PHASE 2
1/8" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1 PAINT EXISTING ELEVATOR DOORS & FRAME (DEP-1)

2 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE.

3 ACOUSTICAL WALL PANELS. REFER TO FINISH SCHEDULE.

4 4'x4' VINYL WALL PROTECTION ADJACENT TO MOP SINK, TYP

GENERAL NOTES

A. REFER TO FINISH SCHEDULE A0.02 FOR ADDITIONAL MATERIAL DETAILS AND LOCATIONS.

B. TRANSITION STRIPS ARE REQUIRED WHERE DIFFERING FLOORING TYPES MEET.

C. INTERIOR SIDE OF EXISTING AND NEW WOOD WINDOWS AND SILL SHALL BE PAINTED. PAINT COLOR WFP-1.

D. SOFFITS ABOVE WALL CABINETS - HORIZONTAL GYP BD SURFACE SHALL BE CP-1. VERTICAL GYPSUM SURFACE SHALL MATCH ADJACENT WALL FINISH.

E. TILE BASE SHALL BE CAPPED WITH A BRUSHED ALUMINUM SCHLUTER RONDEC STRIP WHERE TILE BASE HAS GYP BD ABOVE.

F. WHERE FLOOR TILE ABUTS OTHER FLOOR TYPE, USE SCHLUTER STRIP RENO-U SATIN NICKEL, ANODIZED 3/8".

LEGEND

CPT- 3

CPT- 4

CPT-1

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TITLE
FINISH PLANS - PHASE 1 & 2

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A. GENERAL:

1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. ALL ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE BASED ON THE GROUND FLOOR DATUM OF 100'-0" (U.N.O.).
4. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
5. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED FOR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH INTERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK.
6. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONAL DATA PROVIDED.
7. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE-PROOFING METHODS, AND FIRE-PROOFING MATERIALS FOR STRUCTUREAL MEMBERS.

B. DELEGATED DESIGN / DEFERRED SUBMITTALS:

1. DELEGATED DESIGN AND DEFERRED SUBMITTALS ARE ITEMS DESIGNED BY OTHERS. SHOP DRAWINGS AND CALCULATIONS SHALL BE GENERATED FOR THE DESIGN AND FABRICATION OF ALL DELEGATED DESIGN AND DEFERRED SUBMITTALS ITEMS INDICATED BELOW. THESE DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. FOR ITEMS INDICATED AS "DESIGNED BY THE CONTRACTOR", "DESIGNED BY SUPPLIER", "DESIGNED BY FABRICATOR" AND "DESIGNED BY INSTALLER", IF THESE ENTITIES ARE NOT PROVIDING THEIR OWN ENGINEERING WITH THEIR DESIGNS COMPLETED BY A PROFESSIONAL ENGINEER WHO WILL SEAL AND SIGN THEIR SUBMITTALS THEN THESE ENTITIES WILL INDEPENDENTLY CONTRACT A THIRD PARTY TO PROVIDE THIS SERVICE ON THEIR BEHALF. UNLESS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, DELEGATED DESIGN ITEMS SHALL BE DESIGNED FOR ALL CODE DEFINED LOADS PLUS INDUSTRY STANDARD LOADS INCLUDING GRAVITY LOADS AND LATERAL LOADS DUE TO WIND AND SEISMIC. SEE THE RELEVANT SECTIONS OF THE GENERAL NOTES SHEETS FOR ADDITIONAL DESIGN REQUIREMENTS. CALCULATIONS SHALL INCLUDE REVIEW OF THE CAPACITIES OF ALL SUPPORTING STRUCTURAL ELEMENTS INCLUDING LOCAL STRESSES DUE TO THE CONNECTION METHODS SELECTED. ADDITIONALLY, THE CALCULATIONS AND DRAWINGS SHALL CLEARLY INDICATE THE MAGNITUDES AND DIRECTIONS OF THE LOADS IMPARTED ON THE SUPPORTING STRUCTURAL ELEMENTS. THE LOADING CRITERIA USED FOR DESIGN OF THE DELEGATED DESIGN SYSTEMS AND COMPONENTS SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND CALCULATIONS, REGARDLESS OF WHETHER THEY ARE MANDATED BY THE ENGINEER OF RECORD BY WAY OF THE DRAWING AND SPECIFICATIONS OR DERIVED BY THE DESIGNER.
2. TEMPORARY SHORING: FOUNDATIONS - SHEET PILING, PILES AND LAGGING REQUIRED FOR INSTALLATION OF FOUNDATIONS AND FOUNDATION WALLS SHALL BE DESIGNED BY THE CONTRACTOR. EXCAVATIONS REQUIRED FOR FOUNDATION AND FOUNDATION WALL CONSTRUCTION NEXT TO EXISTING BUILDINGS, NEAR PROPERTY LINES AND NEAR OR OVER UTILITIES MUST BE CONSIDERED BY THE CONTRACTOR IN EVALUATING SHORING REQUIREMENTS.
3. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS: ROOF-TOP UNITS - DESIGN OF THE MECHANICAL UNIT CURB, CONNECTIONS OF THE UNIT TO THE CURB AND CONNECTIONS OF THE CURB TO STRUCTURE SHALL BE PROVIDED BY THE MECHANICAL UNIT CONTRACTOR. ADDITIONAL SUPPORT FRAMING FOR SUPPORTING THE GRAVITY AND LATERAL LOADS SHALL BE DESIGNED, ENGINEERED AND PROVIDED IF IT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS. IF ADDITIONAL SUPPORT FRAMING IS PROVIDED, THE STRUCTURAL ADEQUACY SHALL BE VERIFIED FOR ALL ASCE 7-16 LOAD COMBINATIONS. SHOPS DRAWINGS AND CALCULATIONS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL PROVIDE DETAILS INDICATING THESE CONNECTIONS. SUPPORT AND BRACING OF DUCTWORK, PIPING, CONDUIT AND CABLE TRAYS ASSOCIATED WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE COMPONENTS. FOR PROJECTS IN SEISMIC DESIGN CATEGORY C, D AND HIGHER, SEISMIC BRACING OF ALL MECHANICAL AND ELECTRICAL COMPONENTS REQUIRED BY THE ASCE 7-16 SHALL BE DESIGNED BY THE MECHANICAL CONTRACTOR AND CLEARLY INDICATED AND DETAILED ON THE SHOP DRAWINGS.
4. SUPPORTS FOR INTERIOR FINISHES AND ACCOUTREMENTS:
   INTERIOR PARTITIONS, SOFFITS AND STOREFRONT SYSTEMS NOT PART OF THE MAIN BUILDING SHELL SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTION TO STRUCTURE REQUIRED FOR ARTWORK, SPECIALTY LIGHTING SYSTEMS, MONITORS, VIDEO EQUIPMENT AND PROJECTION SCREENS, TELEVISIONS AND ANY OTHER MISCELLANEOUS ITEMS SHALL BE PROVIDED BY THE SUPPLIER.
5. WINDOWS, STOREFRONTS, GLAZING AND CURTAIN WALL SYSTEMS:
   ALL EXTERIOR AND INTERIOR GLAZING SYSTEMS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE SUPPLIER. CONNECTION LOCATIONS SHALL BE CLEARLY INDICATED AND COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DETAILS.

   DUE TO MOVEMENT OF THE STRUCTURAL FRAMING SYSTEMS FROM LATERAL WIND AND SEISMIC FORCES, THE GLAZING SYSTEM MUST BE DESIGNED TO ACCOMMODATE 3/4" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL. THE DESIGN STORY DRIFT IS THE DIFFERENCE IN LATERAL DISPLACEMENT OF THE TOP OF THE STORY UNDER CONSIDERATION RELATIVE TO THE BOTTOM OF THAT STORY (TOP OF THE STORY BELOW).

   THE CONNECTIONS OF THE GLAZING SYSTEM TO STRUCTURE CAN BE DESIGNED FOR THIS RELATIVE HORIZONTAL MOVEMENT. THE CONNECTIONS SHALL BE DESIGNED FOR 3/4" HORIZONTAL (IN-PLANE) MOVEMENT IN ADDITION TO THE VERTICAL DEFLECTION REQUIREMENTS AS NOTED IN THE PLANS, DETAILS AND SPECIFICATIONS. IF THE CONNECTIONS ARE NOT DESIGNED FOR THE LATERAL MOVEMENT, THE GLAZING SYSTEM SHALL BE DESIGNED TO ACCOMMODATE 3/8" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL TO ACCOUNT FOR DIFFERENTIAL DISPLACEMENTS FROM LOAD REVERSALS IN THE STRUCTURAL SYSTEMS.
6. RAILING AND GUARDRAILS:
   THE INTERIOR AND EXTERIOR RAILING AND GUARDRAILS SHALL BE DESIGN BY THE FABRICATOR. UNLESS SPECIFICALLY DETAILED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS, THE FABRICATOR SHALL DESIGN THE CONNECTIONS TO STRUCTURE AND VERIFY THE CAPACITY OF THE RECEIVING STRUCTURAL ELEMENTS FOR LOADS DUE TO THEIR CONNECTIONS. RAILING SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL HAVING JURISDICTION, FOR REVIEW AND APPROVAL PRIOR TO THIS WORK COMMENCING.
8. CANOPY AND MISCELLANEOUS EXTERIOR FRAMING:
   ALL CANOPIES, NOT OTHERWISE DETAILED, SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTIONS TO STRUCTURE REQUIRED FOR CANOPIES AND OTHER MISCELLANEOUS EXTERIOR FRAMING ITEMS SHALL BE PROVIDED BY THE SUPPLIER. ASSOCIATED SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL HAVING JURISDICTION, FOR REVIEW AND APPROVAL PRIOR TO THIS WORK COMMENCING. THIS IS TO BE A DEFERRED SUBMITTAL UNDER THIS PERMIT.

C. SOIL/STRUCTURE INTERACTION & SOIL PREPARATION INFORMATION:

1. DO NOT BACKFILL WALLS UNTIL CONCRETE HAS ATTAINED FOURTEEN (14) DAY STRENGTH OR LATERAL BRACING IS PROVIDED.
2. FOUNDATIONS HAVE BEEN DESIGNED ASSUMING AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 POUNDS PER SQUARE FOOT (PSF) FOR SPREAD FOOTINGS FOR BUILDING COLUMNS AND CONTINUOUS FOOTINGS FOR BEARING WALLS. SOIL CONDITIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER OR AN APPOINTED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER (OR REPRESENTATIVE) SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.

D. DESIGN LOADS:

1. CODE REFERENCES:

   a. OHIO BUILDING CODE (OBC) - 2024
   b. ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   c. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318 - 2019
   d. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARIES, ACI 530 - 2016
   e. COLD-FORMED STEEL DESIGN MANUAL, AISI - 2017
   f. SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI - 2017
   g. CATALOG OF STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE - 2017
   h. STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, 1st EDITION - MARCH 2014
   i. STEEL DECK INSTITUTE ROOF DECK DESIGN MANUAL, 1st EDITION - MAY 2013
   j. STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL, 4th EDITION - SEPTEMBER 2015
   k. STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK - OCTOBER 2016
   l. STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS - MAY 2001
   m. MANUAL OF STEEL CONSTRUCTION - AISC, 15th EDITION - 2017
   n. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS - 01 AUGUST 2014
   o. STRUCTURAL WELDING CODE - STEEL, ANSI/AWS D1.1 - 2015
   p. FEMA 405 - NEHRP RECOMMENDED PROVISIONS FOR SEISMIC REGULATIONS FOR NEW BLDGS AND OTHER STRUCTURES - 2015

DEAD LOADS:

ROOF DEAD LOAD	20 PSF (10 PSF TOP CHORD / 10 PSF BOTTOM CHORD)
MEZZ. DEAD LOAD	50 PSF (INCLUDES CONCRETE DECK)
WALL WEIGHTS	65 PSF (8" CMU GROUTED AT 32" O.C.) 69 PSF (8" CMU GROUTED AT 24" O.C.)

LIVE LOADS:

FLOOR LIVE LOADS:

OCCUPANCY TYPES:	DISTRIBUTED LOADS	CONCENTRATED LOAD (ON 2.5 SF AREA
RECREATIONAL USE	100 PSF	1,000 POUNDS
CORRIDORS AND PUBLIC AREAS	100 PSF	1,000 POUNDS
STAIRS/LANDINGS/EXITWAYS	100 PSF	300 POUNDS (ON 4.5 SQ IN OF AREA)

ROOF LIVE LOAD:

MINIMUM DESIGN ROOF LIVE LOAD	20 PSF

SNOW LOAD PARAMETERS:

a. GROUND SNOW LOAD, Pg	20 PSF
b. FLAT-ROOF SNOW LOAD, Pf	14.0 PSF
c. THERMAL FACTOR, Ct	1.0
d. EXPOSURE FACTOR, Ce	1.0
e. ROOF SLOPE FACTOR, Cs	1.0
f. SNOW LOAD IMPORTANCE FACTOR, I	1.0

WIND DESIGN PARAMETERS:

a. ULTIMATE DESIGN WIND SPEED = 115 MPH
b. WIND LOAD IMPORTANCE FACTOR = 1.0
c. WIND EXPOSURE = EXPOSURE C
d. MAIN WIND DESIGN VELOCITY PRESSURES:

HEIGHT (FT.)	WINDWARD WALL	LEEWARD WALL	SIDEWALLS
0 - 15	22.0 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
15 - 20	22.9 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
20 - 25	23.7 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
25 - 30	24.5 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
30 - 35	25.3 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF

COMPONENT AND CLADDING - WALLS

AREA (SQ. FT.)	INTERIOR ZONE	EDGE ZONE
10	30.8 PSF	37.9 PSF
100	26.6 PSF	29.4 PSF
200	25.4 PSF	27.0 PSF
500	23.7 PSF	23.7 PSF

SEISMIC DESIGN PARAMETERS:

a. OCCUPANCY CATEGORY	II
b. SITE CLASS	D
c. IMPORTANCE FACTOR	1.0
d. SEISMIC DESIGN CATEGORY:	B
e. RESPONSE MODIFICATION COEFFICIENT, R	2
f. 0.2 SECOND DESIGN SPECTRAL RESPONSE, Sds	15.6%
g. 1.0 SECOND DESIGN SPECTRAL RESPONSE, Sd1	11.3%
h. DEFLECTION AMPLIFICATION FACTOR, Cd	1-3/4
i. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE	
j. SEISMIC FORCE-RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS	
k. SEISMIC BASE SHEAR: V = Cs x WEIGHT	

LOADS ON HANDRAIL & GUARDRAIL SYSTEMS:

a. HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 200 POUNDS IN ANY DIRECTION, AT ANY POINT ALONG THE TOP RAIL.
b. HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 POUNDS-PER-LINEAR-FOOT IN ANY DIRECTION ALONG THE TOP RAIL. THIS DEMAND NEED NOT BE CONSIDERED CONCURRENTLY WITH THE LOAD IN 'a'.
c. INTERMEDIATE RAILS AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 12" x 12". THE REACTIONS FROM THIS LOAD NEED NOT BE CONSIDERED CONCURRENTLY WITH THE LOADS IN 'a' & 'b'.

E. REINFORCED CONCRETE:

1. MATERIALS
   a. STRUCTRUAL CONCRETE OVERVIEW

LOCATION	f'c (PSI)
FOUNDATIONS AND GRADE BEAMS	3000
TYP. INTERIOR CONCRETE	4000
EXTERIOR CONCRETE EXPOSED TO DE-ICING	4500, 6% AIR
BACKFILL BELOW FOOTINGS, CONCRETE FILL IN STRUCTURES	1500

   b. ALL DEFORMED REINFORCING BARS: FY = 60,000 P.S.I.
   c. WELDED WIRE FABRIC: ASTM A185
2. FIELD MANUAL:

   PROVIDE AT LEAST ONE COPY OF THE LATEST ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
3. CONTINGENCIES:

   PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
4. FOOTINGS, PIERS, WALLS AND SLABS:
   a. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O.
   b. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LENGTH OF EACH LEG - 45 BAR DIAMETERS. (PLACE AS PER DETAILS U.N.O.).
   c. PROVIDE 10 MIL. POLYETHYLENE VAPOR RETARDER AND 4" COMPACTED AGGREGATE SUBBASE MATERIAL ON TOP IN ACCORDANCE WITH THE TYPICAL SLAB DETAILS. UNDER ALL INTERIOR SLABS ON GRADE, VAPOR RETARDER SHALL BE CARRIED TO AND PLACED IN CONTACT W/RIGID INSULATION AT INTERIOR FACE OF EXTERIOR FOUNDATION WALLS. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
5. CONSTRUCTION JOINTS:

   CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED.
6. CHAMFER:

   PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, U.N.O.
7. MISCELLANEOUS:
   a. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS AND COORDINATE WORK WITH THE CONSTRUCTION MANAGER AND OTHER TRADES. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
8. CONCRETE COVER:

   U.N.O. DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
No. 6 - No. No. 18 BARS	2 IN.
No. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, AND JOISTS:	
No. 14 AND No. 18 BARS	1 1/2 IN.
No. 11 BARS AND SMALLER	3/4 IN.
BEAMS AND COLUMNS:	
PRIMARY REINFORCEMENT, STIRRUPS, TIES AND SPIRALS	1 1/2 IN.
SURFACES EXPOSED TO LIQUIDS:	2 IN.
SLABS ON GRADE - 1/3 SLAB THICKNESS FROM TOP OF SLAB OR AS SHOWN ON DRAWINGS	

TENSION LAP SCHEDULE:
f'c = 3000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)

BAR COVER (INCHES)	3/4			1 1/2			1 1/2		
BAR SPACING (INCHES)	2 1/2	4	>=6	2 1/2	4	>=6	2 1/2	4	>=6
#4	29	29	29	29	29	29	29	29	29
#5	36	36	36	36	36	36	36	36	36
#6	43	43	43	43	43	43	43	43	43
#7	69	69	69	66	63	63	66	63	63
#8	-	-	-	86	72	72	86	72	72
#9	-	-	-	109	81	63	109	81	81

f'c = 4000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)

BAR COVER (INCHES)	3/4			1 1/2			1 1/2		
BAR SPACING (INCHES)	2 1/2	4	>=6	2 1/2	4	>=6	2 1/2	4	>=6
#4	25	25	25	25	25	25	25	25	25
#5	31	31	31	31	31	31	31	31	31
#6	37	37	37	37	37	37	37	37	37
#7	60	60	60	57	54	54	57	54	54
#8	-	-	-	74	62	62	74	62	62
#9	-	-	-	94	70	70	94	70	70

NOTES:
1. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
2. FOR BARS OTHER THAN TOP BARS, DIVIDE DEVELOPMENT LENGTH SPECIFIED IN TABLE BY 1.3.
3. INTERPOLATE FOR SPLICE LENGTHS AS NECESSARY
4. TENSION LAP SPLICES ARE BASED ON CLASS B. FOR CLASS A, DIVIDE BY 1.3. UNLESS NOTED OTHERWISE IN DRAWINGS, ASSUME ALL SPLICES AS CLASS B.
5. IF SPLICE DIMENSION IS INDICATED IN DRAWINGS, PROVIDE LARGER SPLICE LENGTH.
6. LAP SPLICE TABLES ARE BASED ON ACI 318002, SECTIONS 12.2.2, 12.2.3 & 12.14.2
7. VALUES SHOWN IN TABLE MAY BE LOWERED WITH Ktr IF TRANSVERSE REINFORCEMENT EXISTS PER 12.2.3.

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TITLE
GENERAL NOTES

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F. STRUCTRUAL STEEL:

1. GENERAL:
THE STRUCTURAL STEEL IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE (I.E., BUILDING) IS TOTALLY CONSTRUCTED (I.E. ,FULLY BUILT). THE STEEL ERECTOR SHALL DETERMINE, FURNISH, AND INSTALL ALL TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BEAMS, FALSE-WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION. THE STEEL ERECTOR SHALL PROVIDE THESE TEMPORARY SUPPORTS THAT SHALL BE SUFFICIENT TO SECURE THE BARE STRUCTURAL STEEL FRAMING, OR ANY PORTION THEREOF, AGAINST LOADS THAT ARE LIKELY TO BE ENCOUNTERED DURING ERECTION INCLUDING THOSE DUE TO WIND AND THOSE THAT RESULT FROM ERECTION OPERATIONS.

STEEL FABRICATOR AND ERECTOR FOR ALL STEEL SHALL FOLLOW ALL APPLICABLE REQUIREMENTS OF THE LATEST DOL PUBLICATION "SAFETY STANDARDS FOR STEEL ERECTIONS FINAL RULE".

2. MATERIALS:

a. W-SHAPE MEMBERS: ASTM A572, Fy=50 KSI, AND PER AISC TECHNICAL BULLETIN #3 (OR ASTM A992), AND ASTM 6
b. CHANNELS, M-SHAPES, S-SHAPES: ASTM A572, Fy=50 KSI, AND ASTM 6
c. HOLLOW STRUCTURAL SHAPES (DESIGNATED AS HSS OR TS): ASTM 500, GRADE B, (ROUND HSS -> Fy=42 KSI) (SQUARE & RECTANGULAR HSS -> Fy = 46 KSI)
d. TEES: SAME MATERIAL OF THE FULL SECTIONS THAT WAS SPLIT TO MAKE THE TEE SECTION
e. MISC. STEEL, PLATES, AND ANGLES: ASTM A36 Fy=36 KSI, OR ASTM A572, GRADE 42 WHERE NOTED ON THE DRAWINGS, AND ASTM A6
f. HIGH STRENGTH BOLTS: ASTM A325 OR A490
g. ANCHOR BOLTS: ASTM F1554, GRADE 55
h. ELECTRODES: E70XX

3. STANDARDS AND CODES:
WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1 UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:

a. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

b. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY

c. AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS.

4. CONNECTIONS:

a. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF OHIO, RETAINED BY THE FABRICATOR. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO PROVIDE ALL STIFFENER PLATES, ETC., THAT MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON THE STRUCTURAL SCHEMATIC DETAILS TO ENSURE THAT THE MEMBERS CONNECTED TOGETHER HAVE ADEQUATE STRENGTH AT THE CONNECTION. COMPLETELY DETAILED INCLUDES PROVIDING THE FOLLOWING INFORMATION ON THE DETAIL.

i. ALL PLATE DIMENSIONS AND GRADES
ii. ALL WELD SIZES, LENGTHS, PITCHES AND RETURNS
iii. ALL HOLE SIZES AND SPACINGS.
iv. NUMBER AND TYPES OF BOLTS

b. CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF OF THE ALLOWABLE LOAD ON THE MEMBER, AS DEFINED IN THE AISC TABLES FOR ALLOWABLE LOADS ON BEAMS AS Wc/2L OR THE REACTIONS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.

c. MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY WHERE MAGNITUDE IS NOT SHOWN ON DRAWINGS AND THE SHEAR OBTAINED FROM NOTE b. ABOVE.

d. THE MINIMUM PLATE THICKNESS SHALL BE 3/8", THE MINIMUM BOLT DIAMETER SHALL BE 3/4", THE MINIMUM WELD SHALL BE 1/4"x 2" LONG AND THE MINIMUM LOAD ON ANY CONNECTION SHALL BE 10 KIPS.

e. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINT OF CONCENTRATED LOADS, INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER THE TOPS OF COLUMNS, OR GIRDERS, AND AT THE LOCATION OF CHANGE OF SLOPE (KINKS) AT ANY MEMBER. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 5/8" OR FLANGE THICKNESS OF THE COLUMN ABOVE OR BELOW, WHICHEVER IS GREATER.

f. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF MOMENT CONNECTIONS, CANTILEVERS AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR SLIP CRITICAL CONNECTIONS. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS.

g. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.

h. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE BALUES USED FOR THE BARIOUS BOLT TYPES.

i. FABRICATOR SHALL PROVIDE FILLER PLATES BETWEEN ALL DOUBLE ANGLES AT INTERVALS SUCH THAT THE SLENDERNESS RATIO OF A SINGLE ANGLE DOES NOT CONTROL.

j. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH.

k. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

5. PAINT:

a. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY.

6. METAL DECK:

a. METAL DECK TO BE AS SHOWN ON THE DRAWINGS.

b. ANCHORAGE TO BE AS ASHOWN ON DRAWINGS & PER STEEL DECK INSTITUTE SPECS. UNO.

c. DO NOT SUSPEND PIPES OR DUCTS FROM ROOF DECK.

d. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.

e. DECKING MANUFACTURER SHALL COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH MECHANICAL DRAWINGS.

f. METAL ROOF DECK USED IN THE BUILDING SHALL NOT HAVE SECTION PROPERTIES PER FOOT OF WIDTH LESS THAN THE FOLLOWING:
1.5" 20GA. TYPE B: Ip=0.201 IN^3, Sn=0.247 IN^3."

F. STRUCTURAL STEEL (Cont.):

7. STEEL JOISTS:

a. ALL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.

b. JOIST SIZES INDICATED ON PLANS ARE MINIMUMS. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY AN ENGINEER REGISTERED IN THE STATE OF OHIO. FOR JOISTS HAVING ANY ADDITIONAL CONCENTRATED LOADS, SUCH AS MECHANICAL EQUIPMENT, SUSPENDED FOLDING PARTITIONS, ETC., OR UN-BRACED COMPRESSION CHORDS AND/OR OTHER UNUSUAL CONDITIONS, MANUFACTURER SHALL ADJUST CHORD AND WEB SIZES ACCORDINGLY, BUT SHALL NOT ALTER DEPTH UNLESS APPROVED IN WRITING.

c. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO MANUFACTURE. SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE DETAILS OF ANY OPTIONAL FIELD SPLICES AND IF HIGH STRENGTH BOLTS OR FULL PENETRATION WELDS ARE UTILIZED, CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING LAB TO CERTIFY COMPLIANCE WITH AISC AND AWS SPECIFICATIONS, RESPECTIVELY.

d. JOISTS MUST NOT ALIGN WITH CMU WALLS BELOW. CENTERLINE OF JOIST SHALL BE A MINIMUM OF 6" AWAY FROM FACE OF CMU WALL BELOW.

8. MISCELLANEOUS:

a. PROVIDE HOLES FOR OTHERS AS NOTED. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

b. STEEL SUPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AS SHOWN ON DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION WITH MECH. AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH HIS WORK.

c. GROUT UNDER BEARING PLATES TO BE NON-SHRINKING, NON-METALLIC TYPE.

d. ALL COLUMN ANCHOR BOLTS TO BE SET BY LICENSED SURVEYOR.

e. PROVIDE HEAVY HEX NUT AND COMPATIBLE WASHER AT ALL ANCHOR BOLTS.

f. MIN. BEAM BEARING ON MASONRY SHALL BE 8".

g. MIN. BEAM BEARING ON STEEL SHALL BE 4".

h. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

i. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

j. ALL EXPOSED STEEL ITEMS SHALL BE GALVANIZED.

G. LIGHT GAUGE STEEL FRAMING:

1. ALL LIGHT GAUGE METAL STUD FRAMING, INCLUDING HEADERS, SILLS, TRACKS AND OTHER ASSOCIATED FRAMING MEMBERS AND ACCESSORIES, AND THEIR CONNECTIONS TO STRUCTURE IS A DELEGATED DESIGN TO BE PROVIDED BY THE LIGHT GAUGE FRAMING CONTRACTOR. ALL LIGHT GAUGE STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND DESIGN REQUIREMENTS. THE LIGHT GAUGE METAL STUD FRAMING AND THE CONNECTIONS TO STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS ARE PROVIDED FOR DESIGN INTENT ONLY. THE DEPTH OF THE METAL STUDS SHOWN IN THE DETAILS SHALL BE PROVIDED.

2. THE DESIGN OF ALL LIGHT GAUGE FRAMING MEMBERS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE PERFORMED BY A REGISTERED ENGINEER RETAINED BY THE LIGHT GAUGE FRAMING CONTRACTOR. SUBMIT SEALED STRUCTURAL CALCULATIONS FOR REVIEW ALONG WITH THE LIGHT GAUGE FRAMING SHOP DRAWINGS. CONNECTIONS OF ALL FRAMING MEMBERS SHALL BE WITH SELF-DRILLING GALVANIZED SCREWS OR WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO RESIST ALL REQUIRED LOADS INCLUDING WIND. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH GALVANIZING PAINT.

3. METAL TRACKS SHALL HAVE 1.50-INCH FLANGES AND MATCH THE MATERIAL GAUGE OF THE IN-FRAMING METAL STUDS, U.N.O. THE IN-FRAMING METAL STUDS SHALL BE CONNECTED TO EACH TRACK FLANGE WITH ONE #10 SCREW. FULL HEIGHT BACK-TO-BACK DOUBLE STUDS SHALL BE PROVIDED AT ALL WALL ENDS, CORNERS AND EACH SIDE OF OPENINGS (JAMBS). ALL BOX BEAM HEADERS SHALL BEAR ON AN 18-GAUGE TRIMMER STUD WITH A NESTED TRACK, MINIMUM, U.N.O.

4. METAL STUDS SHALL BE C-SHAPED WITH 50 KSI YIELD STRENGTH FOR 12, 14 AND 16 GAUGE MATERIALS, AND 33 KSI FOR 18 AND 20 GAUGE MATERIALS. FOR ALL METAL STUDS, THE MINIMUM SECTION PROPERTIES SHALL CONFORM TO SSMA GUIDELINES. BRIDGING SHALL BE PROVIDED IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS TO OBTAIN THE FULL FLEXURAL CAPACITY OF THE SECTION.

5. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653. ALL LIGHT GAUGE STEEL MEMBERS SHALL BE ZINC COATED MEETING THE REQUIREMENTS OF ASTM A924. ALL STRUCTURAL LIGHT GAUGE MEMBERS SHALL BE CONSTRUCTED WITH UNPUNCHED SOLID WEBS, UNLESS OTHERWISE NOTED.

6. CONNECTIONS AT LIGHT GAUGE MATERIAL CONSTRUCTED WITH #10 HILTI KWIK-FLEX OR GRABBER SCREWS, UNLESS OTHERWISE NOTED.

7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR TIGHT ATTACHMENT TO PERPENDICULAR MEMBERS, OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

8. SPLICES IN FRAMING MEMBERS, OTHER THAN RUNNING TRACK, SHALL NOT BE PERMITTED.

9. WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS, AND/OR AT POINTS OF CONCENTRATED LOADS AS REQUIRED.

10. JOIST BRIDGING SHALL BE PROVIDED TO BRACE MEMBERS AS REQUIRED TO DEVELOP FULL MEMBER STRENGTH.

11. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.

12. STRUCTURAL MEMBERS NOTED SHALL HAVE SECTION PROPERTIES AS INDICATED IN THE "PRODUCT TECHNICAL INFORMATION" DOCUMENT BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

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NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

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JOB NO.	4278.01
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TITLE
GENERAL NOTES

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TABLE 1705.2.1 REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MATERIAL IDENTIFICATION AND TESTING OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	- -	x	AISC 360: SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURE'S CERTIFICATE OF COMPLIANCE REQUIRED.	- -	x	
c. TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	- -	- -	
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
a. SNUG-TIGHT JOINTS.	- -	x	AISC 360: SECTION M2.5
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF I NSTALLATION.	- -	x	
c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	x	- -	
3. MATERIAL IDENTIFICATION AND TESTING OF STRUCTURAL STEEL AND COLD-FORMED DECK:			
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	- -	x	AISC 360: SECTION N2.1 AND APPLICABLE ASTM MATERIAL STANDARDS
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	- -	x	
c. MANUFACTURER'S CERTIFIED TEST REPORTS.	- -	x	
d. TESTING OF UNIDENTIFIED STEEL.	- -	- -	
4. MATERIAL IDENTIFICATION OF WELDING CONSUMABLES AND TESTING OF WELDED ELEMENTS:			
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	- -	x	AISC 360: A3.5, N3.2, & N5.5 AND APPLICABLE AWS A5 DOCUMENTS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	- -	x	
c. NONDESTRUCTIVE TESTING OF WELDED JOINTS.	- -	- -	
5. INSPECTION OF WELDING:			
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
i. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	x	- -	
ii. MULTIPASS FILLET WELDS.	x	- -	
iii. SINGLE-PASS FILLET WELDS > 5/16"	x	- -	AISC 360: J2, M2.4 & M4.5 AWS D1.1 & AWS D1.8
iv. PLUG AND SLOT WELDS.	x	- -	
v. SINGLE-PASS FILLET WELDS 5/16" OR LESS.	- -	x	
vi. FLOOR AND ROOF DECK WELDS.	- -	x	AWS D1.3, SDI QA/QC
vii. END-WELDED STUDS.	- -	x	AWS D1.1
viii. WELDED SHEET STEEL FOR COLD-FORMED FRAMING MEMBERS.	- -	x	AWS D1.3
b. REINFORCING STEEL:			
i. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	- -	x	
ii. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	x	- -	AWS D1.4, ACI 318: 18.2.8, 25.5.7.4 & 26.6.4.1
iii. SHEAR REINFORCEMENT.	x	- -	
iv. OTHER REINFORCING STEEL.	- -	x	
v. TESTS OF REINFORCING BARS.	- -	- -	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:			
a. DETAILS SUCH AS BRACING AND STIFFENING.	- -	x	AISC 360: N5.8
b. MEMBER LOCATIONS	- -	x	
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	- -	x	

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	- -	x	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	- -	x	AWS D1.4 ACI 318: 26.6.4	- -
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16";	- -	x		
c. INSPECT ALL OTHER WELDS.	x	- -		
3. INSPECT ANCHORS CAST IN CONCRETE.	- -	x	ACI 318: 17.8.2	- -
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINDED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	x	- -	ACI 318: 17.8.2.4	- -
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT IDENTIFIED IN 4.a	- -	x	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.	- -	x	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x	- -	ASTM C172, ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x	- -	ACI 318: 26.5	1908.6 - 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	- -	x	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRE-STRESSED CONCRETE FOR:				
a. APPLICATION OF PRE-STRESSING FORCES;	x	- -	ACI 318: 26.10	- -
b. GROUTING OF BONDED PRE-STRESSING TENDONS	x	- -		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	- -	x	ACI 318: 26.9	- -
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STUCTURAL SLABS.	- -	x	ACI 318: 26.11.2	- -
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	- -	x	ACI 318: 26.11.1.2(b)	- -

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	- -	x
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	- -	x
3. PERFOM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	- -	x
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	x	- -
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	- -	x

SPECIAL INSPECTION PROGRAM NOTES:

1. PERIODIC INSPECTION FREQUENCY DETERMINED BY THE DESIGN PROFESSIONAL, UNLESS NEEDED OTHERWISE.
2. CONTINUOUS OR PERIODIC SELECTION TO BE MADE BY THE DESIGN PROFESSIONAL BASED ON BUILDING CATEGORY AND DESIGN METHODOLOGY. SPECIAL INSPECTION/TESTING PROGRAM.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION STIPULATED.
4. IF NECESSARY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, AND TESTING AGENCY TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
5. DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
   A. ACKNOWLEDGE AND CONFORM TO THE SPECIAL INSPECTION REQUIREMENTS OF OBC.
   B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ATTENTION OF THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL.
   C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE CONTRACTOR, THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL AS A MINIMUM. THE REPORTS SHALL BE DISTRIBUTED IN A TIMELY MANNER.
   D. INSPECTION FOR PREFABRICATED COMPONENTS SHALL BE THE SAME AS IF THE MATERIAL WAS INSTALLED ON SITE. CONTINUOUS INSPECTION SHALL NOT BE REQUIRED DURING THE PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
   E. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING INSPECTION WAS INSPECTED AND WHETHER THE WORK WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATION AND IN CONFORMANCE WITH ANY APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE CODE.
6. SPECIAL INSPECTION AND TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

A
A/E - ARCHITECT/ENGINEER
AB - ANCHOR BOLT/ROD
AFF - ABOVE FINISH FLOOR
ARCH. - ARCHITECT (URAL)
B
BFF - BELOW FINISH FLOOR
BLK - BLOCK (ING)
BM - BEAM
BRG - BEARING
BU - BUILT UP
B/ - BOTTOM OF
C
CAM (C=) - CAMBER
CIP - CAST-IN-PLACE
CJ - CONTROL JOINT
CL - CENTERLINE
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECT (ION)
CONT - CONTINUOUS
CONTR - CONTRACT (OR)
CTR - CENTER
CU - CUBIC
D
D - DEEP, DEPTH
DBL - DOUBLE
DEMO - DEMOLITION, DEMOLISH
DET - DETAIL
DIA - DIAMETER
DIAG - DIAGONAL, DIAGRAM
DIM - DIMENSION
DIR - DIRECTION
DL - DEAD LOAD
DR - DRAIN
DWG - DRAWING
E
EA - EACH
EF - EACH FACE
EJ - EXPANSION JOINT
EL, ELEV - ELEVATION
EMBED - EMBEDMENT
EQ - EQUAL
EST - ESTIMATE
EW - EACH WAY
EQUIP - EQUIPMENT
EXP - EXPANSION
EXT - EXTERIOR
F
FD - FLOOR DRAIN
FF - FINISHED FLOOR
FIN - FINISH (ED)
FLG - FLANGE
FLR - FLOOR (ING)
FOC - FACE OF CONCRETE
FOM - FACE OF MASONRY
FOS - FACE OF STUD
FOW - FACE OF WALL
FS - FAR SIDE
FT - FOOT, FEET
FTG - FOOTING
FRMG - FRAMING
FUT - FUTURE
G
GA - GAGE, GAUGE
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GEN - GENERAL
GL - GRADE LINE
GLU-LAM - GLUE-LAMINATED BEAM
GR BM - GRADE BEAM
GYP BD - GYPSUM BOARD
H
H - HIGH
HAS - HEADED ANCHOR STUD
HC - HOLLOW CORE
HDR - HEADER
HGR - HANGER
HORIZ - HORIZONTAL
HR - HANDRAIL
HS - HIGH STRENGTH
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL SHAPE
HT - HEIGHT
I
ID - INSIDE DIAMETER
INCL - INCLUDING
INT - INTERIOR
J
JST - JOIST
JT - JOINT
K
K - KIPS (1000 lbs.)
KCJ - KEYED CONSTRUCTION JOINT
KLF - KIPS PER LINEAR FOOT
KSF - KIPS PER SQUARE FOOT
KSI - KIPS PER SQUARE INCH
L
L - ANGLE
LL - DOUBLE ANGLE
LBS - POUNDS
LG - LONG
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LOC - LOCATION
LONG - LONGITUDINAL
LSL - LAMINATED STRAND LUMBER
LT WT - LIGHT WEIGHT
LVL - LAMINATED VENEER LUMBER
M
MATL - MATERIAL
MAX - MAXIMUM
MBR - MEMBER
MC - MISCELLANEOUS CHANNEL
MECH - MECHANICAL
MEZZ - MEZZANINE
MFD - MANUFACTURED
MFR - MANUFACTURER
MIN - MINIMUM
MISC - MISCELLANEOUS
MTL - METAL
N
NA - NOT APPLICABLE
NIC - NOT IN CONTRACT
NO - NUMBER
NOM - NOMINAL
NS - NEAR SIDE
NTS - NOT TO SCALE
O
OC - ON CENTER
OD - OUTSIDE DIAMETER
OH DR - OVERHEAD DOOR
OPNG - OPENING
OPP - OPPOSITE
OSB - ORIENTED STRAND BOARD
OVS - OVERSIZED
P
PAF - POWDER ACTUATED FASTENER
PCF - POUNDS PER CUBIC FOOT
PL - PLATE
PLF - POUNDS PER LINEAR FOOT
PLYWD - PLYWOOD
PNL - PANEL
PR - PAIR, PIPE RAIL
PRCST - PRECAST
PREFAB - PREFABRICATED
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PT - POST TENSION (ED), PRESSURE TREATED
R
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
RD - ROOF DRAIN
REF - REFERENCE
REINF - REINFORCING
REQ'D - REQUIRED
REV - REVISION
RO - ROUGH OPENING
S
SCHED - SCHEDULE
SECT - SECTION
SHT - SHEET
SHTHG - SHEATHING
SIM - SIMILAR
SL - SNOW LOAD
SLV - SLEEVE
SOG - SLAB-ON-GRADE
SPEC - SPECIFICATION
SQ - SQUARE
SSL - SHORT SLOTTED
SST - STAINLESS STEEL
STD - STANDARD
STIF - STIFFENER
STL - STEEL
SUSP - SUSPENDED
SW - SHEAR WALL
SYMM - SYMMETRICAL
T
T&B - TOP AND BOTTOM
T&G - TONGUE AND GROOVE
TBD - TO BE DETERMINED
THK - THICK (NESS)
TL - TOTAL LOAD
TO - TOP OF
TOB - TOP OF BEAM
TOC - TOP OF CONCRETE
TOCW - TOP OF CONCRETE WALL
TOF - TOP OF FOOTING
TOM - TOP OF MASONRY
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
U
UNO - UNLESS NOTED OTHERWISE
V
V - SHEAR
VERT - VERTICAL
VIF - VERIFY IN FIELD
VR - VAPOR RETARDER
VRFY - VERIFY
W
W - WIDTH
W/ - WITH
W/O - WITHOUT
WD - WOOD
WF - WIDE FLANGE
WL - WIND LOAD
WLD - WELD (ED)
WP - WATERPROOFING, WORK POINT
WS - WATERSTOP
WT - WEIGHT
WWF - WELDED WIRE FABRIC
Y
YD - YARD

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TITLE
SPECIAL INSPECTIONS

SHEET NO.
S0.3

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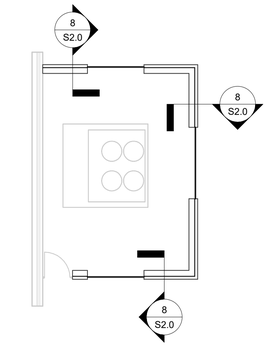
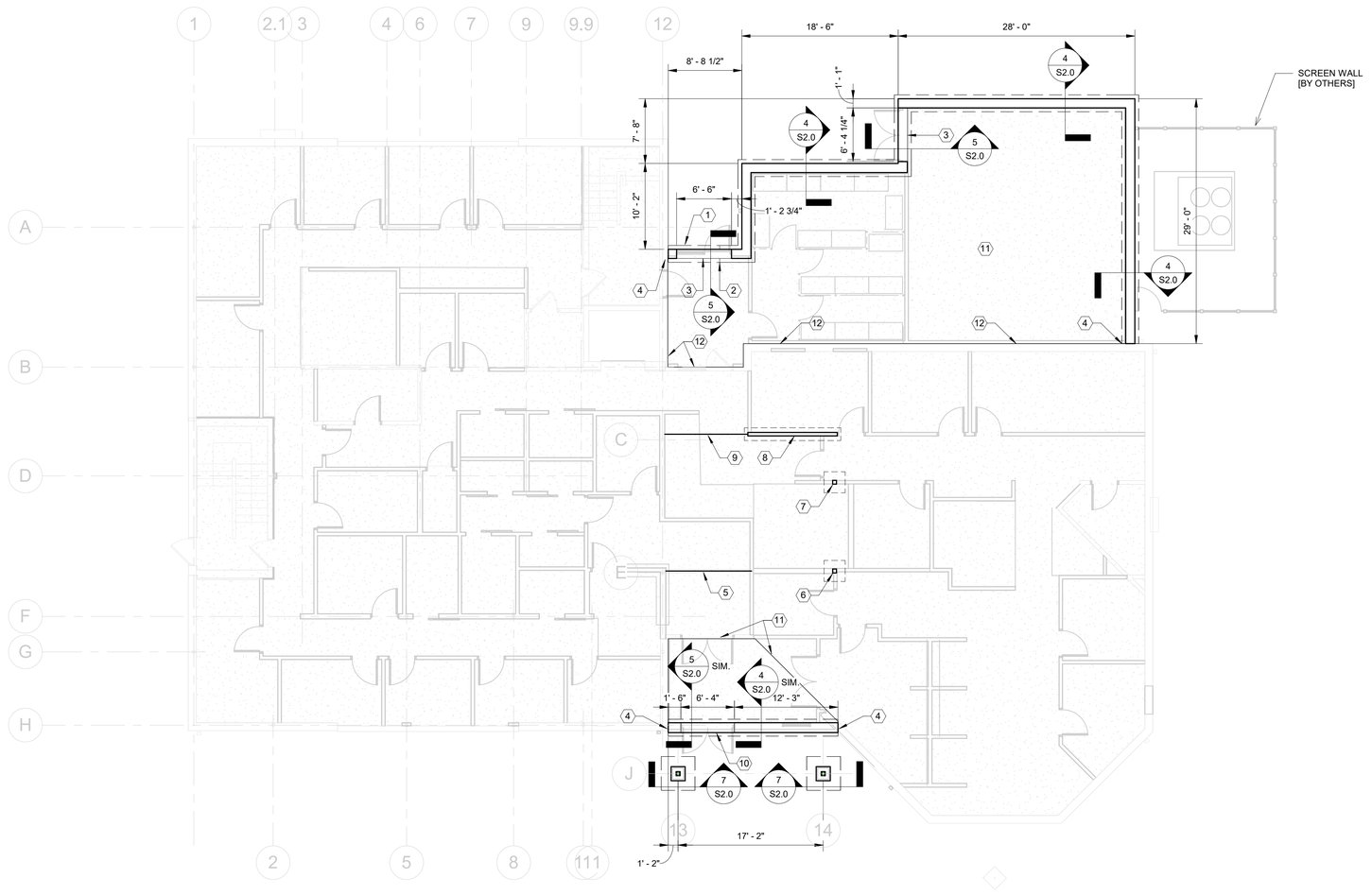


2 SCREEN WALL ALTERNATE 1
1/8" = 1'-0"



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

FOUNDATION NOTES:

1. TOP OF FOOTING = 97'-4" U.N.O.
2. T/PEDESTAL = 100'-0" U.N.O.
3. CENTER ALL COLUMN FOOTINGS UNDER COLUMN CENTERLINES, U.N.O.

PLAN NOTES:

1. TOP OF FOOTING = 95'-4".
2. STEP FOOTING 2'-0".
3. HOLD TOP OF STEM WALL DOWN 8" AND POUR SLAB THROUGH TO THE EDGE.
4. PROVIDE (3) #5 x 42" LONG DOWELS TO MATCH AND LAP w/ NEW FOOTING REINFORCING [6" EPOXY EMBEDMENT INTO EXISTING FOOTING]. ALSO PROVIDE (4) #4 x 30" LONG DOWELS TO MATCH AND LAP w/ NEW STEM WALL REINFORCING [4" EPOXY EMBEDMENT INTO EXISTING STEM WALL].
5. NEW 3-PLY 2x12 WOOD BEAM TO SUPPORT EXISTING ROOF TRUSSES ABOVE.
6. NEW BUILT-UP WOOD COLUMN: (4) 2x6 JACK STUDS & (2) 2x6 KING STUDS [ONE ON EITHER SIDE OF EXISTING 3-PLY 18" LVL BEAM]. PROVIDE 2'-6" x 2'-6" x 10" THICKENED SLAB AT BASE OF NEW POST w/ (3) #4 BARS, EACH WAY.
7. NEW BUILT-UP WOOD COLUMN: (4) 2x4 JACK STUDS & (2) 2x4 KING STUDS [ONE ON EITHER SIDE OF EXISTING 3-PLY 18" LVL BEAM]. PROVIDE 2'-6" x 2'-6" x 10" THICKENED SLAB AT BASE OF NEW POST w/ (3) #4 BARS, EACH WAY.
8. NEW METAL STUD BEARING WALL: 362S162-54 (50 KSI) STUDS AT 16" O.C. PROVIDE 18" WIDE x 8" THICKENED SLAB ALONG BASE OF WALL w/ (2) #4 CONT. BARS.
9. NEW 3-PLY2x12 WOOD BEAM TO SUPPORT EXISTING ROOF TRUSSES ABOVE. PROVIDE (2) JACK STUDS & (1) KING STUD AT BEARING WALL END OF BEAM. PROVIDE METAL HANGER AT OPPOSITE END & WELD TO EXISTING STEEL FRAMING.
10. HOLD TOP OF STEM WALL DOWN 8" FOR SLAB POUR-THROUGH.
11. NEW 4" THICK CONCRETE SLAB w/ 6x6 - W1.4xW1.4 WELDED WIRE MESH.

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TITLE
FOUNDATION PLAN

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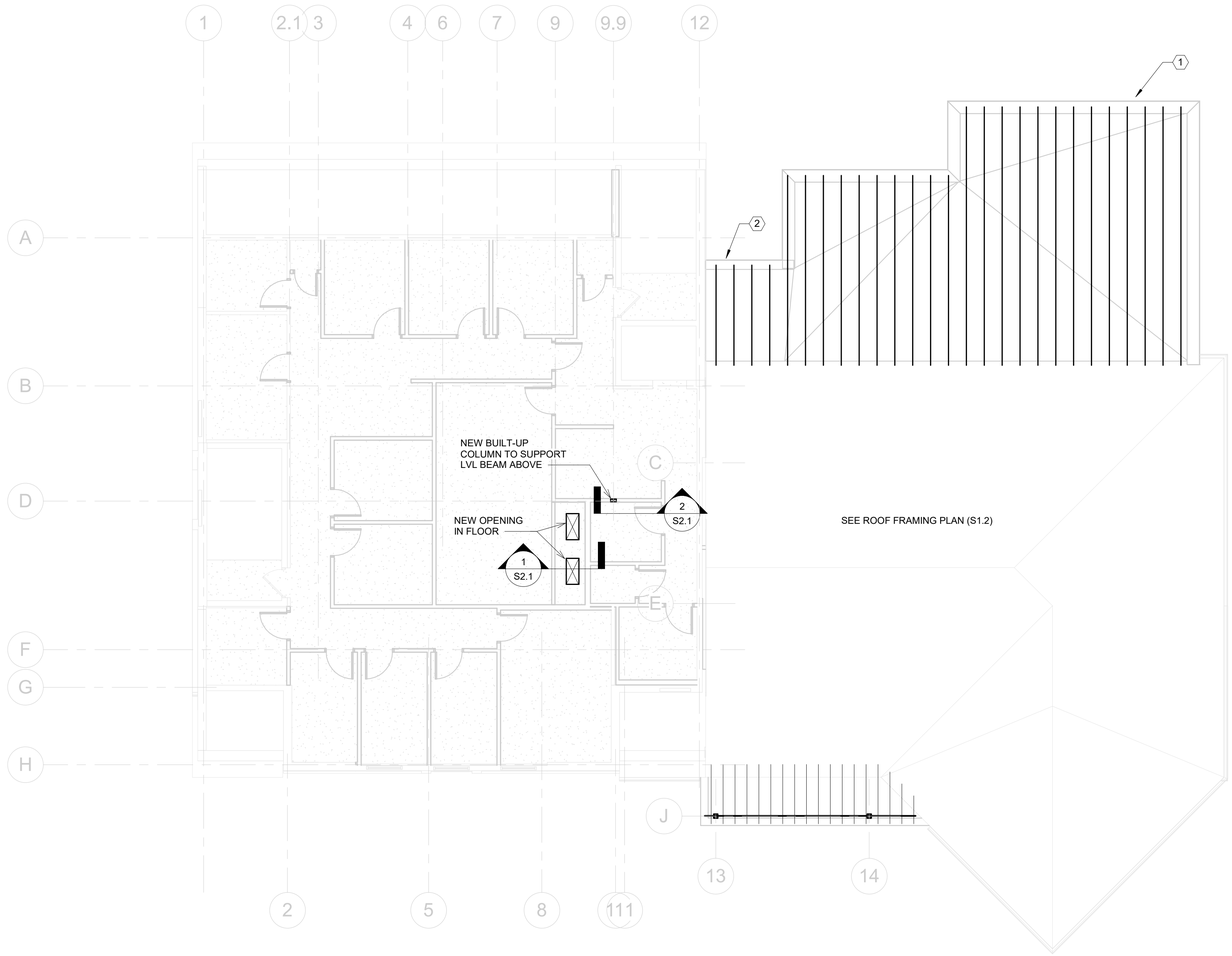

1 SECOND FLOOR PLAN
1/8" = 1'-0"

FRAMING NOTES:

1. REFER TO SHEET S2.1 FOR STEEL ANGLE LINTEL SCHEDULE AT REQUIRED OPENINGS IN MASONRY. SEE ARCH. & MECH. DWG's FOR DUCT PENETRATIONS AND LOUVER LOCATION.

PLAN NOTES:

1. PROVIDE LIGHT GAUGE BOX HEADER AT MECH. LOUVRE: (2) 800S162-54 (50 KSI) STUDS & (2) 600T150-54 (50 KSI) TRACKS w/ (4) #10 SCREWS AT 12" O.C. REFER TO LINTEL SCHEDULE ON SHEET S2.1 FOR STEEL ANGLE REQUIRED TO SUPPORT VENEER.
2. REFER TO DETAIL 6/S2.1 FOR PRE-FABRICATED CANOPY SUPPORT.

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TITLE
SECOND FLOOR PLAN

SHEET NO.
S1.1

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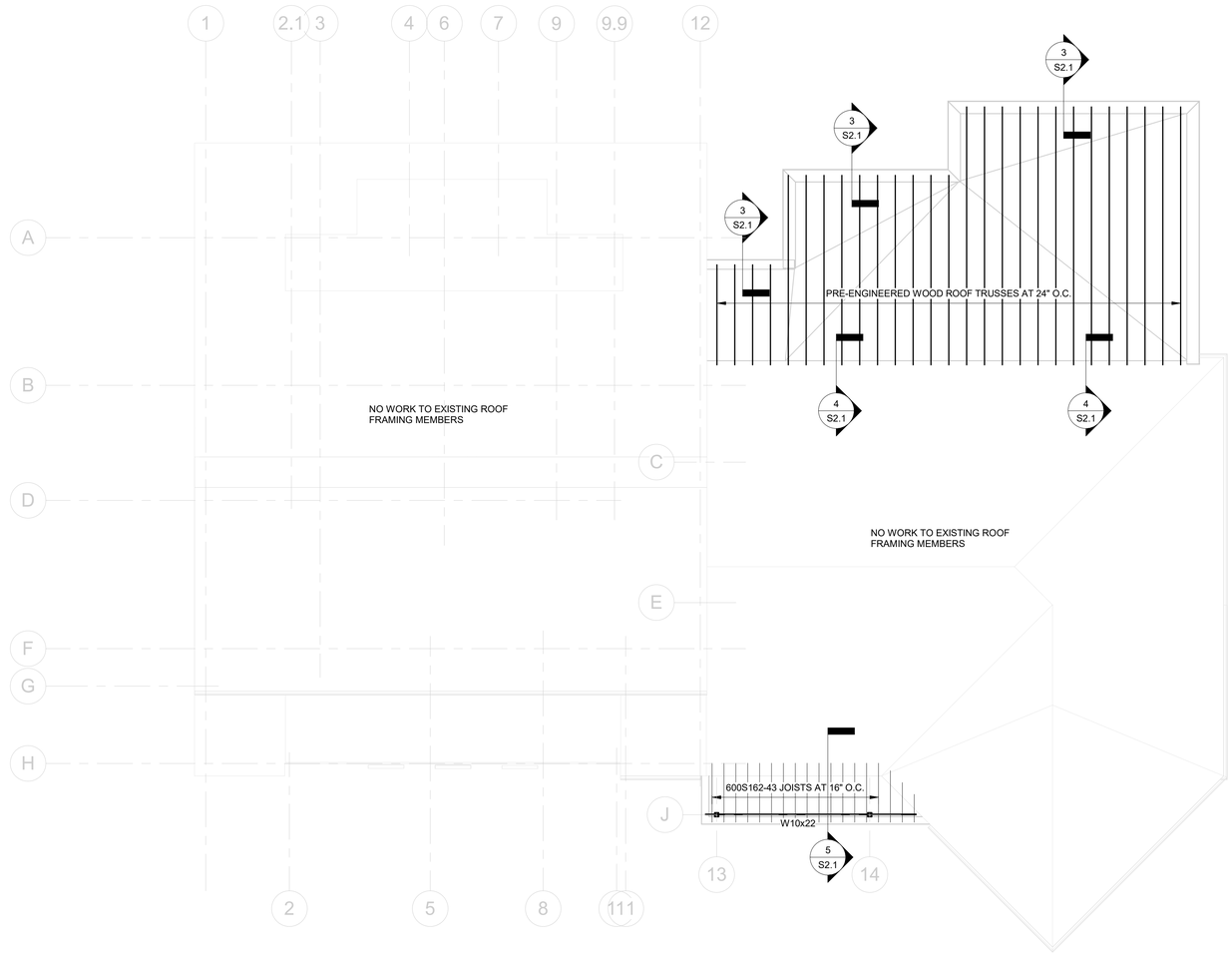

1 ROOF FRAMING PLAN
1/8" = 1'-0"

FRAMING NOTES:

1. TOP OF STEEL BEAM = 9'-4 1/2".
2. TRUSS BEARING ELEVATION = 10'-9".

PLAN NOTES:

1.

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TITLE
ROOF FRAMING PLAN

SHEET NO.
S1.2

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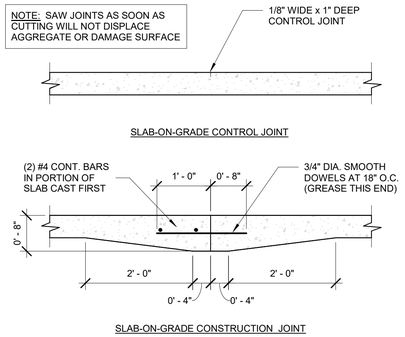
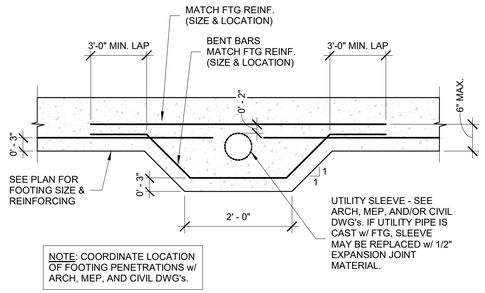
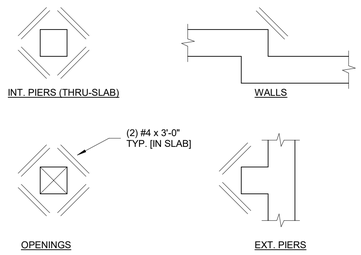


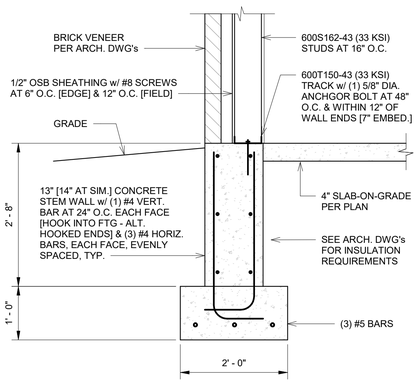
1 TYP. DETAIL - SLAB JOINTS
3/4" = 1'-0"



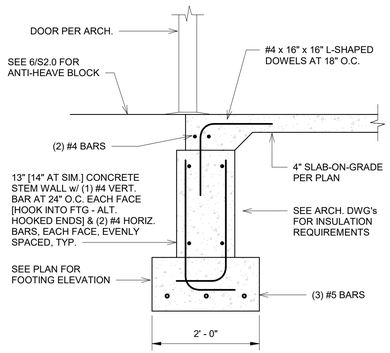
2 TYP. DETAIL - PIPE SLEEVE THRU FTG
3/4" = 1'-0"



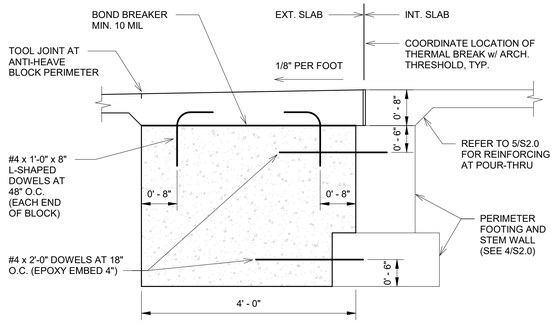
3 TYP. DETAIL - SLAB REINF. AT REENTRANT CORNERS
3/16" = 1'-0"



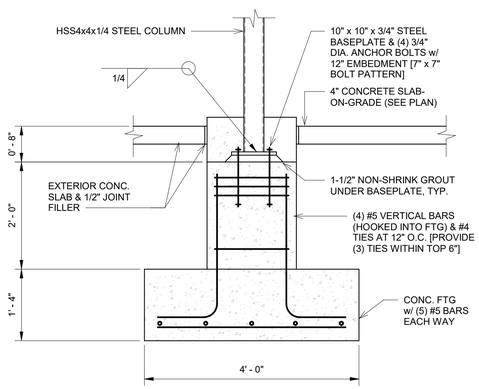
4 FND DETAIL - STEM WALL (SIDES)
3/4" = 1'-0"



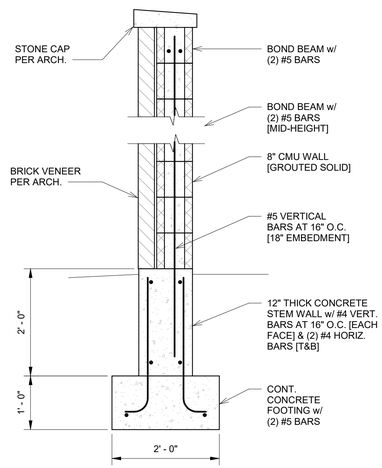
5 FND DETAIL - SLAB POUR THROUGH
3/4" = 1'-0"



6 TYP. DETAIL - ANTI-HEAVE BLOCK
3/4" = 1'-0"



7 FND DETAIL - EXTERIOR COLUMN
3/4" = 1'-0"



8 FND DETAIL - SCREEN WALL
3/4" = 1'-0"

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TITLE
FOUNDATION DETAILS

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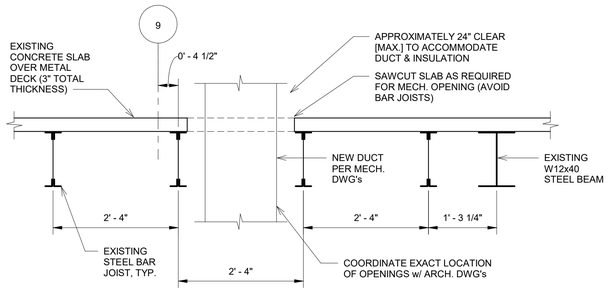
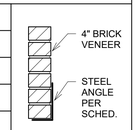


1 FRM DETAIL - FLOOR OPENING (SHORT)
3/4" = 1'-0"

BRICK LINTEL SCHEDULE

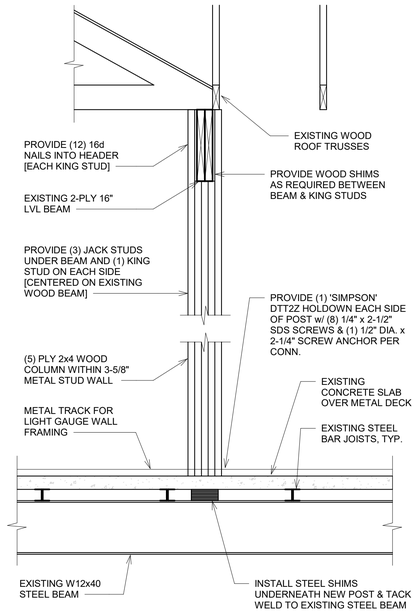
OPENING WIDTH	SUPPORT ANGLE SIZE	MIN. BRG. EA. END
UP TO 3'-6"	L 3-1/2 x 3 x 1/4 (LLH)	4"
UP TO 4'-6"	L 3-1/2 x 3-1/2 x 1/4	4"
UP TO 5'-6"	L 4 x 3-1/2 x 1/4 (LLV)	6"
UP TO 7'-0"	L 5 x 3-1/2 x 1/4 (LLV)	6"
UP TO 8'-0"	L 6 x 3-1/2 x 5/16 (LLV)	6"
UP TO 10'-0"	L 6 x 3-1/2 x 3/8 (LLV)	7"



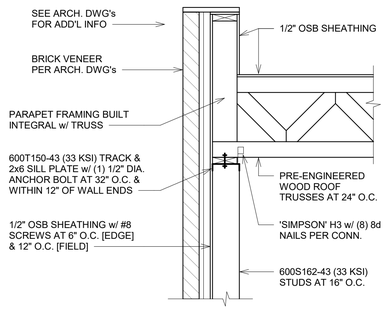
SECTION

ADDITIONAL REMARKS:

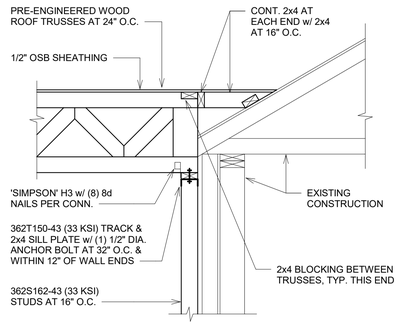
1. USE ABOVE ANGLE SIZES AT ALL MASONRY OPENINGS EXCEPT WHERE DETAILED OTHERWISE.
2. SEE ARCH. DRAWINGS FOR LOCATION AND SIZE OF MASONRY OPENINGS.



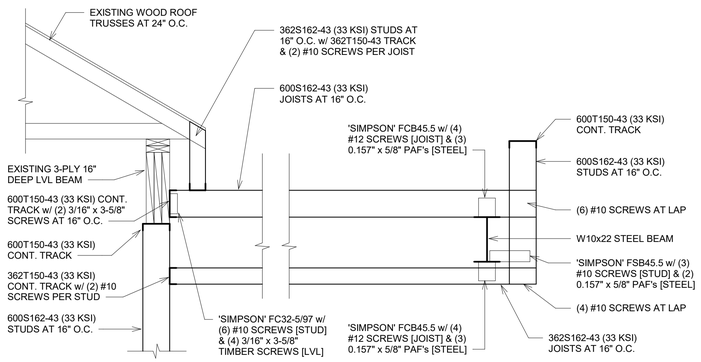
2 FRM DETAIL - NEW POST (SECOND FLOOR)
3/4" = 1'-0"



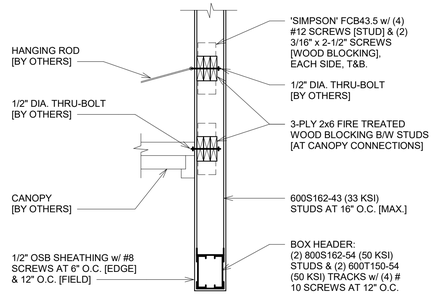
3 FRM DETAIL - TRUSS BRG.
3/4" = 1'-0"



4 FRM DETAIL - TRUSS BRG. (AT EXIST.)
3/4" = 1'-0"



5 FRM DETAIL - NEW ENTRY
3/4" = 1'-0"



6 FRM DETAIL - CANOPY SUPPORT
3/4" = 1'-0"

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TITLE
FRAMING DETAILS

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FIRE SUPPRESSION PIPING

GENERAL NOTES:

PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING INSTALLATION AND TESTING SHALL COMPLY WITH NFPA 13 (2016 EDITION).

PROVIDE PIPING SLEEVES AT WALLS IN NEW CONSTRUCTION.

PIPING SHALL BE PITCHED FOR DRAINAGE.

PROVIDE DIELECTRIC FITTINGS FOR TRANSITIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRIGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTED.

PIPING SYSTEM	TYPE
FIRE SERVICE PIPING (UNDERGROUND TO BUILDING)	P1
FIRE SUPPRESSION PIPING	S2, S3
WET PIPE SPRINKLER 2.5" AND LARGER	S1, S2, S3
WET PIPE SPRINKLER 2" AND SMALLER	S2
WET-PIPE SPRINKLER FINAL CONNECTION TO SPRINKLER HEAD	F1, S2
DRY PIPE SPRINKLER 2.5" AND LARGER	S4, S5
DRY PIPE SPRINKLER 2" AND SMALLER	S4

TYPE	DESCRIPTION	TYPE	DESCRIPTION
P1	**PVC AWWA C900 CLASS 200 DR18** BELL AND SPIGOT FABRICATED FITTINGS WITH ELASTROMERIC GASKET, UL1285	S4	**THREADED GALVANIZED STEEL** SCHEDULE 40, ASTM A53 OR ASTM A795, GRAY-IRON THREADED FITTINGS ASME B16.4, CLASS 125, STANDARD PATTERN
S1	**ROLL GROOVED BLACK STEEL** SCHEDULE 10, ASTM A135 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536	S5	**ROLL/CUT GROOVED GALVANIZED STEEL** SCHEDULE 40, ASTM A53 OR ASTM A795, MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536
S2	**THREADED BLACK STEEL** SCHEDULE 40, ASTM A53 OR ASTM A795, 150 LB. MALLEABLE OR C.I. SCREWED FITTINGS	F1	**FLEXIBLE SPRINKLER HOSE FITTING** 36" LENGTH MAXIMUM FULLY STAINLESS STEEL FLEXIBLE HOSE WITH CEILING BRACKET UL 2443 AND FM 1637 175 PSI RATING FOLLOW UL STANDARDS FOR BEND RADIUS AND NUMBER OF BENDS
S3	**ROLL/CUT GROOVED BLACK STEEL** SCHEDULE 40, ASTM A53 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536		

GENERAL NOTES

A. BUILDING IS CURRENTLY FULLY SUPPRESSED. THE SERVICE RISER IS TO BE RELOCATED INTO NEW ADDITION. REMOVE THE EXISTING WET - PIPE SPRINKLER SYSTEM THROUGHOUT THE AREA(S) OF RENOVATION AND PROVIDE A NEW SPRINKLER SYSTEM THROUGHOUT TO PROVIDE PROPER COVERAGE OF NEW FLOOR PLAN LAYOUT AND COORDINATION WITH NEW DUCTWORK. THE ATTIC SPACES ARE CURRENTLY SUPPRESSED WITH A DRY-PIPE SYSTEM. EXTEND PIPING FROM NEW SERVICE RISER DRY PIPE VALVE TO EXISTING PIPING. BUILDING SHALL BE CONSIDERED FULLY SUPPRESSED AT COMPLETION OF PROJECT.

B. ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE SUPPRESSION SERVICE.

C. PROVIDE A FIRE WATCH IN ACCORDANCE WITH "AHJ" REQUIREMENTS.

D. ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT. CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST TO ALLOW AHJ TO WITNESS ALL TESTS.

E. ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES (SEE NOTE E).

F. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.

G. THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.

H. THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.

I. THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY-IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.

J. THE FIRE DEPARTMENT CONNECTION IS EXISTING AT THE FIRE SERVICE METER PIT AND NO WORK IS ANTICIPATED.

K. LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.

L. FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.

DESIGN CRITERIA

1. DESIGN AND INSTALLATION OF WET PIPE SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE, N.F.P.A. 13 (2022 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
2. WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION, BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE ALL ITEMS LISTED IN N.F.P.A. 13.
3. WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.
4. HYDRAULIC DESIGN CRITERIA FOR LIGHT HAZARD AREAS: (ALL AREAS EXCEPT WHERE NOTED OTHERWISE)
   - DENSITY: 0.10 GPM/SQ.FT.
   - DESIGN AREA: MOST DEMANDING 1500 SQ.FT. (REDUCTION WITH QUICK RESPONSE HEADS PERMITTED)
   - MAX. SPRINKLER COVERAGE: 130 SQ. FT./HEAD
   - HOSE DEMAND: 100 GPM
   - DURATION: 30 MINUTES
5. HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 1) AREAS: (STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S ROOMS, KITCHEN, COMMUNICATION ROOMS)
   - DENSITY: 0.15 GPM/SQ.FT.
   - DESIGN AREA: MOST DEMANDING 1500 SQ.FT.
   - MAX. SPRINKLER COVERAGE: 130 SQ. FT./HEAD
   - HOSE DEMAND: 250 GPM
   - DURATION: 60 MINUTES
6. HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 2) AREAS: (ADD SPECIFIC ROOM).
   - DENSITY: 0.2 GPM/SQ.FT.
   - DESIGN AREA: MOST DEMANDING 1500 SQ.FT.
   - MAX. SPRINKLER COVERAGE: 130 SQ. FT./HEAD
   - HOSE DEMAND: 250 GPM
   - DURATION: 60 MINUTES
7. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
8. SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDENT TYPE WITH FLAT PLATE AND WHITE FINISH.
9. SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS.
10. SIDEWALL SPRINKLER HEADS MAY BE USED IN STAIRWELLS WHERE PROPER COVERAGE CAN BE PROVIDED.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

FIRE SUPPRESSION

F	FIRE SUPPRESSION SYSTEM
S	SPRINKLER SYSTEM
DS	DRY-PIPE SPRINKLER SYSTEM
	VALVE
	VALVE ON RISER
	CHECK VALVE
	SUPERVISED VALVE
FS	FLOW SWITCH
	CAP
	CONNECTION, BOTTOM
	CONNECTION, TOP
	ELBOW, 90°., LONG RADIUS
	ELBOW, 45°.
	ELBOW, TURNED UP
	ELBOW TURNED DOWN
	REDUCER
	UNION
P	PRESSURE GAUGE

FIRE SUPPRESSION INDEX OF DRAWINGS

SHEET	DRAWING TITLE
F0.1	LEGENDS AND SCHEDULES
F1.2	DEMOLITION PLANS
F2.1	FIRST FLOOR FIRE SUPPRESSION
F2.2	SECOND FLOOR FIRE SUPPRESSION

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

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TITLE
LEGENDS AND SCHEDULES

SHEET NO.
F0.1

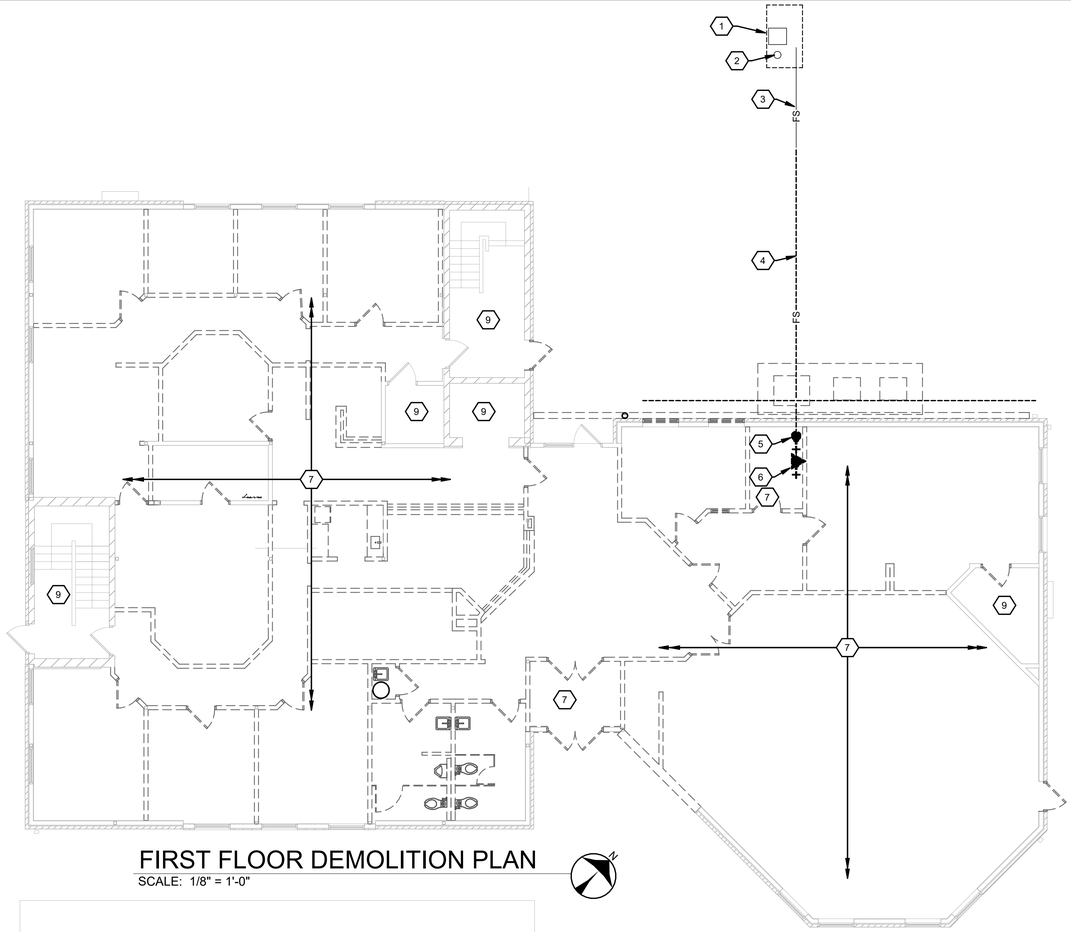
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3621

PROJECT # 25029

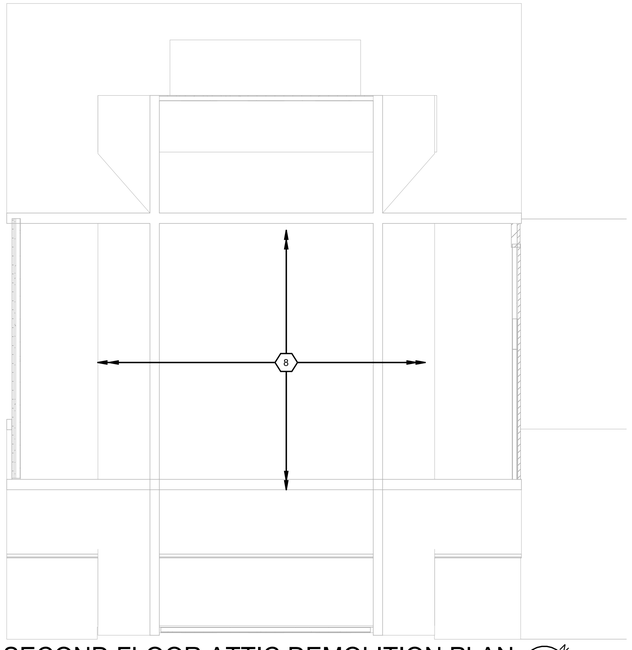
10/28/2025 8:00:07 AM

CONSTRUCTION NOTES

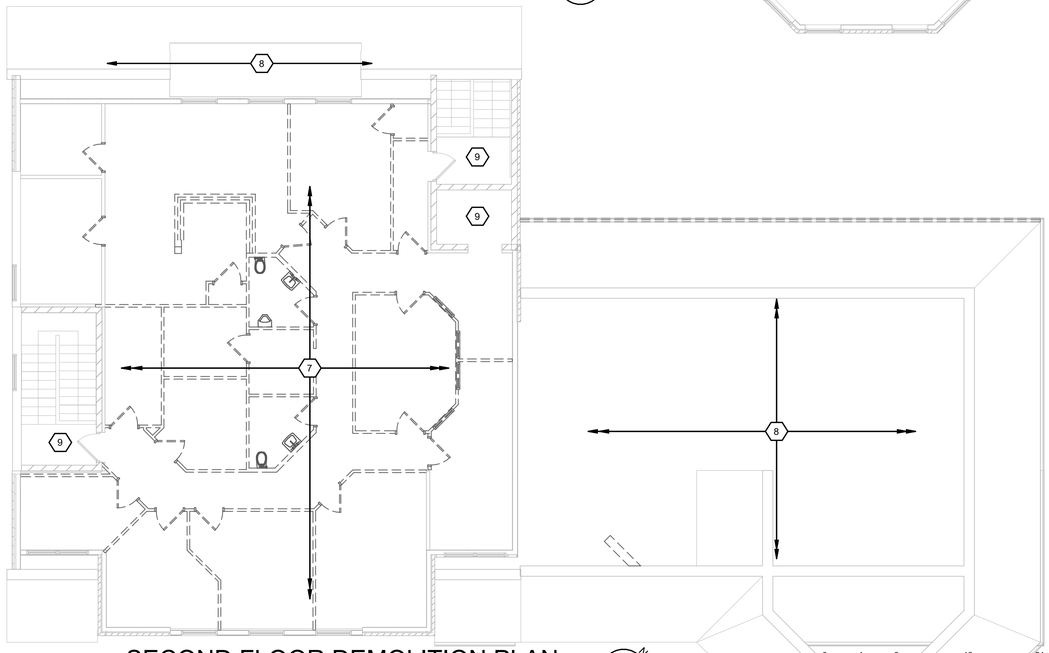
1. EXISTING FIRE SERVICE PIT TO REMAIN.
2. EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
3. EXISTING 4" BUILDING FIRE SERVICE LINE TO REMAIN.
4. REMOVE EXISTING 4" BUILDING SERVICE LINE TO BE REMOVED FOR NEW CONSTRUCTION.
5. REMOVE EXISTING SPRINKLER RISER SERVING WET SPRINKLER SYSTEM.
6. REMOVE EXISTING DRY-PIPE SPRINKLER RISER SERVING ATTIC SPRINKLER SYSTEM.
7. REMOVE EXISTING WET PIPE SPRINKLER SYSTEM INCLUDING ALL BRANCH PIPING AND MAINS.
8. EXISTING ATTIC DRY SPRINKLER SYSTEM TO REMAIN.
9. SPRINKLERS SERVING THIS AREA TO REMAIN.



FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR ATTIC DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0 4 8 16 24 32 40
SCALE: 1/8"=1'-0"

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City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

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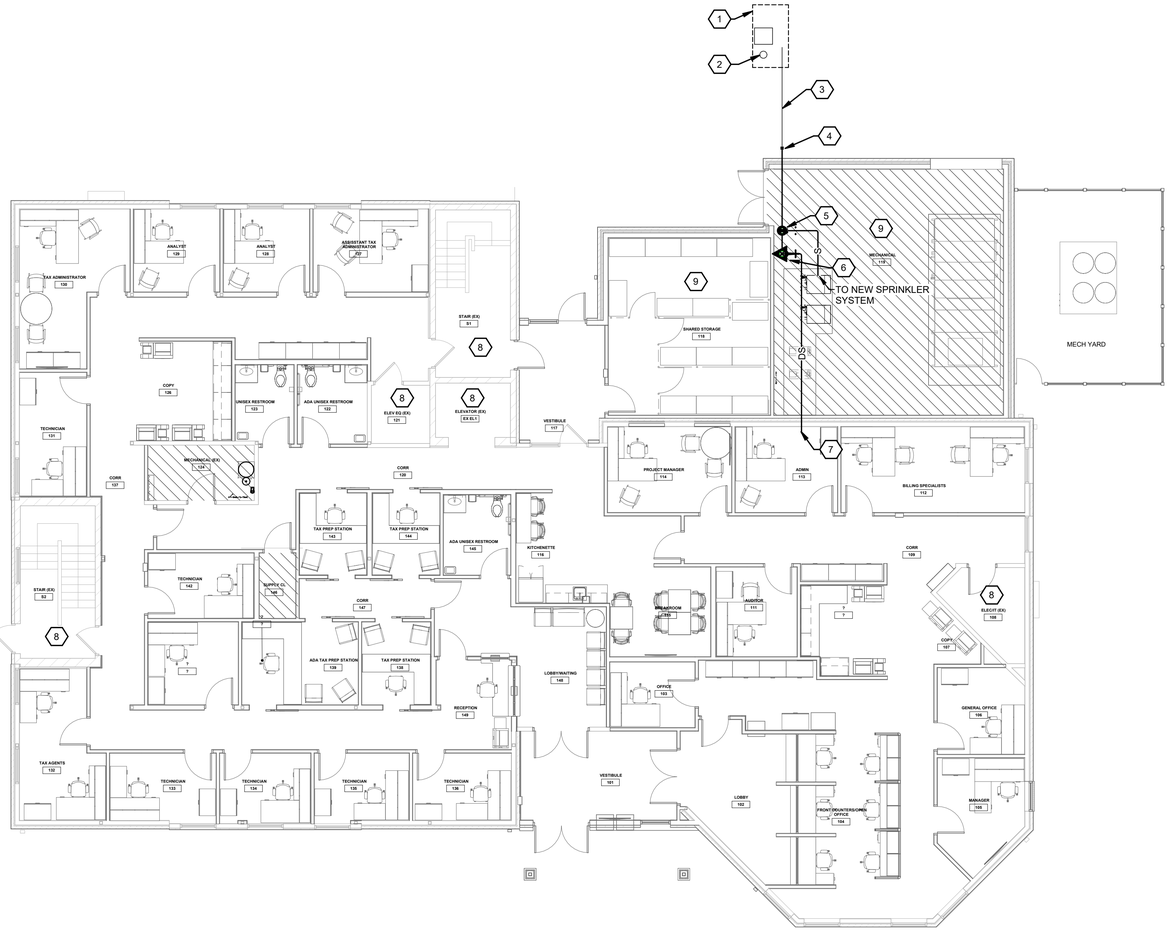
TITLE
DEMOLITION PLANS

SHEET NO.
F1.2

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3621

PROJECT # 25029

10/28/2025 8:00:22 AM



CONSTRUCTION NOTES

1. EXISTING FIRE SERVICE PIT TO REMAIN.
2. EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
3. EXISTING 4" BUILDING FIRE SERVICE LINE TO REMAIN.
4. CONNECT TO EXISTING 4" FIRE SERVICE AND EXTEND NEW 4" INTO BUILDING.
5. FIRE SERVICE RISERS FROM BELOW GRADE AND WET SPRINKLER RISER.
6. NEW 4: DRY PIPE VALVE SERVING EXISTING ATTIC DRY-PIPE SPRINKLER SYSTEM.
7. EXTEND 4" DRY-PIPE SPRINKLER TO EXISTING 4" DRY-PIPE PIPING.
8. EXISTING SPRINKLER IN THIS ROOM TO REMAIN. CONNECT EXISTING PIPING TO NEW SPRINKLER PIPING.
9. CONSTRUCTION IN ADDITION IS OPEN WEB WOOD JOIST WITH GYPSUM BOARD ON THE UNDERSIDE. ALL PIPING TO BE EXPOSED WITH UPRIGHT SPRINKLERS.

HAZARD CLASSIFICATIONS

NO HATCH

LIGHT HAZARD
DENSITY - 0.10GPM/SP
MAX AREA PER HEAD - 225 SF
HOSE ALLOWANCE - 100 GPM

ORDINARY HAZARD GROUP 1
DENSITY - 0.15GPM/SP
MAX AREA PER HEAD - 130 SF
HOSE ALLOWANCE - 250 GPM

ORDINARY HAZARD GROUP 2
DENSITY - 0.20GPM/SP
MAX AREA PER HEAD - 130 SF
HOSE ALLOWANCE - 250 GPM

FIRST FLOOR FIRE SUPPRESSION

SCALE: 1/8" = 1'-0"

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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TITLE
FIRST FLOOR FIRE SUPPRESSION

SHEET NO.
F2.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3621

PROJECT # 25029

10/28/2025 8:00:38 AM

SECOND FLOOR FIRE SUPPRESSION

SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. EXISTING SPRINKLER IN THIS ROOM TO REMAIN. CONNECT EXISTING PIPING TO NEW SPRINKLER PIPING.

HAZARD CLASSIFICATIONS

NO HATCH

LIGHT HAZARD
DENSITY - 0.10GPM/SP
MAX AREA PER HEAD - 225 SF
HOSE ALLOWANCE - 100 GPM

ORDINARY HAZARD GROUP 1
DENSITY - 0.15GPM/SP
MAX AREA PER HEAD - 130 SF
HOSE ALLOWANCE - 250 GPM

ORDINARY HAZARD GROUP 2
DENSITY - 0.20GPM/SP
MAX AREA PER HEAD - 130 SF
HOSE ALLOWANCE - 250 GPM

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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TITLE
SECOND FLOOR FIRE SUPPRESSION

SHEET NO.
F2.2

10/29/2025 8:00:53 AM

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	SERVICES				MTG. HGT.	TRIM REQUIREMENTS						NOTES
			H.W.	C.W.	SAN.	VENT		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	
W1	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ ELECTRONIC FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MaP SCORE/ OPEN FRONT SEAT NO LID/ ACCESSIBLE	AM. STANDARD # 3043.001	--	1"	4"	2"	--	SLOAN # ECO 8111 -1.6/1.1	UNIT	UNIT	INTEGRAL	--	SEAT BEMIS # 1955SSCT	
L1	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ ELECTRONIC FAUCET/ 0.5 GPM/ ACCESSIBLE	BY OTHERS	1/2"	1/2"	1 1/4"	1 1/2"	--	SLOAN # EBF-615	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC		POWERS # LFE480	
S2	SINK/ ST. ST./UNDERMOUNT/ SINGLE BOWL/ 17" X 17"X 9" DEEP BOWL/ / SINGLE LEVER FAUCET W PULL DOWN SPRAY	ELKAY # ECTRU17179T	1/2"	1/2"	1 1/2"	1 1/2"	--	AM. STANDARD STUDIO S # 4803410	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912	--		
M1	MOP SINK/ FLOOR SET/ 24" SQ. 10" DEEP/ MOLDED STONE/ VINYL. CAPS/ ST.ST. WALL PANELS/ ON 2 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS	FIAT # MSB2424	1/2"	1/2"	3"	1 1/2"	36" FAUCET	AM. STANDARD # 8351.112	UNIT	UNIT	SAME AS SANITARY PIPING	--	FIAT # E-88-AA , # MSG2424	
WB2	WATER CONNECTION BOX/ 1/4 TURN BALL VALVE (COFFEE MAKER)	OATEY # 38574	--	1/2"			42"	UNIT	BALL VALVE ABOVE CEILING	--	--	--	--	
H1	WALL HYDRANT/ ENCASED/ NON-FREEZE/ ANTI-SIPHON/ AUTOMATIC DRAINING/ 1/2 TURN CERAMIC DISC/ WALL CLAMP	ZURN # Z1320XL-EZ-WC		3/4"	-	-	APPROX. 24"							1.

EQUALS

AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN

AMERICAN STANDARD FAUCETS - KOHLER, ZURN, CHICAGO, T&S BRASS

SLOAN FLUSH VALVES - ZURN, DELANEY
ELKAY SINKS - JUST, ADVANCED TABCO

MCGUIRE - WATTS, BRASS CRAFT

MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"

OATEY SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF

NOTES:

1. COORDINATE EXACT MOUNTING HEIGHT WITH MASONRY COURSING.

DRAIN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER MODEL NUMBER	OUTLET SIZE	FEATURES: ANCHOR FLANGE	FLASHING CLAMP	UNDERDECK CLAMP	DBL/ DRAINAGE	SEDIMENT BUCKET	STRAINER/GRATE: TOP/STRAINER SIZE	FLAT	DOME	OPEN (NO GRATE)	HALF OPEN	ADJUSTABLE	FUNNEL	NOTES
FD1	FLOOR DRAIN/ CAST IRON BODY/ NICKEL BRONZE SQUARE TOP/ ADJUSTABLE	ZURN # ZN415-S7	3"	●			●		7" SQ.	●				●		1.
FD2	FLOOR DRAIN/ CAST IRON BODY/ NO TOP/ SECONDARY STRAINER IN BOTTOM	ZURN # Z566	3"						12" SQ	●		●				
FD3	FLOOR DRAIN/ PVC BODY/APPROX 6" DEEP/ HALF TOP PVC FLAT GRATE/ FLAT STRAINER IN BOTTOM/ MEDIUM DUTY	SIOUX CHIEF # 8614P26	3"	●					11" SQ	●			●			
FD4	FLOOR DRAIN/ CAST IRON BODY AND TOP/ MEDIUM DUTY/ LOOSE GRATE	ZURN # Z550	3"	●					9" DIA.	●						1.
FCO	HEAVY DUTY CLEANOUT/ FLOOR SET/ NICKEL-BRONZE TOP/ CAST IRON BODY/ MIP THREADED CONNECTION/ ABS PLUG	ZURN # ZN1400-K	SAME AS PIPE UP TO 4"	●					VARIES	●				●		3.
RD	ROOF DRAIN/ CAST IRON BODY/ CAST IRON DOME/ ADJUSTABLE EXTENSION/ TOP MOUNT DECK.	ZURN # ZC100F-EA-DP	AS NOTED		●				12 5/16" DIA.		●			●		
SRD	SECONDARY ROOF DRAIN/ CAST IRON BODY/ CAST IRON DOME/ ADJUSTABLE EXTENSION/ TOP MOUNT DECK PLATE/ 2" DAM	ZURN # ZC100F-EA-DP-89	AS NOTED		●				12 5/16" DIA.		●			●		
SSO	SECONDARY STORM OUTLET/ ALUMINIUM BODY/ PROTUDING LIP/ HINGED PERFORATED COVER/ POWDER COATED FINISH/ COLOR SELECTIO BY ARCHITECT	ZURN # ZF199	AS NOTED													2.

NOTES

1. PROVIDE ASSE 1072 TRAP MAINTENANCE DEVICE ON DRAIN.
2. MOUNT APPROX. 24 " ABOVE FINISHED GRADE.
3. ANCHOR CLEANOUTS NOT IN FLOOR SLABS IN 12" SQ. X 8" DEEP CONC. SET FLUSH WITH FINISED GRADE.

GENERAL NOTES - PLUMBING

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDING AND PLUMBING CODES, INCLUDING REFERENCED CODES AND STANDARDS.

B. OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.

C. REMOVE ALL ABANDONED PIPING & SUPPORTS.

D. SHUT DOWN OF DOMESTIC WATER SYSTEM SHALL BE SCHEDULED WITH THE OWNER.

E. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.

F. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND SMOKE PARTITIONS.
IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.
IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT, SEE SPECIFICATIONS.

G. REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.

H. ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.

I. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.

PHASING NOTE

PROJECT IS PHASED WITH THE FIRST FLOOR RENOVATED FIRST AND THEN OCCUPIED WHILE THE SECOND FLOOR IS RENOVATED.

THE ONE SECOND FLOOR TOILET ROOM (SEE NOTE ON PLAN) SHALL REMAIN ACTIVE DURING FIRST FLOOR RENOVATION UNTIL FIRST FLOOR IS OCCUPIED AND SECOND FLOOR DEMOLITION BEGINS.

THE PLUMBING WORK FOR THE SECOND FLOOR FIXTURES WILL REQUIRE WORK ON THE FIRST FLOOR. WORK ON THE FIRST FLOOR DURING SECOND FLOOR CONSTRUCTION WILL BE REQUIRED TO BE PERFORMED AFTER "NORMAL" WORKING HOURS. THE PLUMBING CONTRACTOR WILL ALSO BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF FIRST FLOOR CEILINGS REQUIRED FOR THIS WORK.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

PLUMBING LEGEND

	SANITARY DRAIN
	VENT
ST	STORM DRAIN
SST	SECONDARY STORM DRAIN ABOVE FLOOR
	COLD WATER
	HOT WATER
	HOT WATER RETURN
G	NATURAL GAS
	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
	CHECK VALVE
	BALANCING VALVE
	VALVE ON RISER
	UNION
R	PRESSURE REGULATOR
P	PRESSURE GAUGE
T	TEMPERATURE GAUGE
	CONNECTION, BOTTOM
	CONNECTION, TOP
	DIRECTION OF FLOW
	CAP
C.O.	CLEAN OUT
V.R.	VENT RISER
V.T.R.	VENT THRU ROOF
S.S.	SOIL STACK
D.S.	DOWNSPOUT (STORM)

PLUMBING INDEX OF DRAWINGS

SHEET	DRAWING TITLE
P0.1	LEGENDS AND SCHEDULES
P0.2	MATERIAL SCHEDULES
P1.1	DEMOLITION PLANS
P2.0F	UNDERGROUND PIPING PLAN
P2.1	FIRST FLOOR NEW WORK
P2.2	SECOND FLOOR NEW WORK
P3.1	DETAILS
P4.1	SOIL, WASTE, AND VENT DIAGRAM

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TITLE
LEGENDS AND SCHEDULES

SHEET NO.
P0.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone (937) 223-3621

PROJECT # 25029

10/29/2025 9:07:22 AM

PIPE INSULATION SCHEDULE

QUALITY ASSURANCE
FIRE, SMOKE RATINGS: FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.

THICKNESSES SHALL CONFORM TO ASHRAE 90.1 MINIMUMS.

GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

EXECUTION
INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.

INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT CONDENSATION.

INSULATION MAY BE OMITTED ON HOT WATER VALVES AND DEVICES 2" AND SMALLER PIPE SIZE.

PRIMARY AND SECONDARY ROOF DRAIN SUMPS SHALL BE INSULATED WITH 1" THICK INSULATION.

THE FIRST 10 FEET OF SECONDARY STORM PIPING AFTER THE DRAIN SHALL BE INSULATED.

ABOVE GRADE SANITARY DRAINAGE RECEIVING CONDENSATE SHALL BE INSULATED AS INDICATED BELOW FOR CONDENSATE DRAINAGE. WHERE THE DRAIN SUMP IS EXPOSED ON THE FLOOR BELOW, IT TOO SHALL BE INSULATED WITH 1" INSULATION.

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1, E1	INTERIOR
DOMESTIC COLD WATER 2" &...	1"	F1, E1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLER	1"	F1, E1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.5" AND LARGER	1.5"	F1, E1	INTERIOR
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1, E1	INTERIOR
CONDENSATE DRAINAGE	1"	F1, E1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #SSL II WITH ASJ MAX JACKET	- KNAUF - JOHNS MANVILLE - MANSON -CERTAINTEED	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F, 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.

VALVE SCHEDULE

QUALITY ASSURANCE
VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.

VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

GROOVED END VALVES SHALL CONFORM TO ANSI/AWWA C-606.

PRODUCTS
WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.

VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.

PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.

PROVIDE HOSE ADAPTORS ON DRAIN VALVES.

SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF SCREWED ENDS.

IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:
BALL VALVES - NIBCO, WATTS, MILWAUKEE, APOLLO, CONBRACO, CRANE.
BALANCING VALVES - BELL & GOSSETT, ARMSTRONG, WATTS. CALEFFI
CHECK VALVES - NIBCO, STOCKHAM, WATTS.
...

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	PLUG
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11, B14	C11, C13		E11/E12	
INTERIOR NATURAL GAS 3" AND SMALLER		B17				
INTERIOR NATURAL GAS 4" AND LARGER						P11
EXTERIOR NATURAL GAS 2" AND SMALLER		B18				P12
EXTERIOR NATURAL GAS 3" AND LARGER						P11, P12

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., 2 PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND STEM, TFE SEAT AND SEAL, HANDLE. NSF/ASME 61	B18	NIBCO T-585(OR 580)-70-UL, 600 PSI NON-SHOCK COLD, 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE. UL LISTED FOR GAS. ASME B16.33	E12	ADJ, THERMOSTATIC, BALANCE, CALEFFI THEROSETTER LOW-LEAD BRASS BODY WITH ISOLATION VALVES AND TEMP GAUGE, EPDM SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61
B14	APOLLO 70LF-240, 150 WSP, 2 PIECE LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, STANDARD PORT, TEFLON SEAT AND SEAL, HANDLE, NSF/ASME 61	C11	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING. NSF 61	P11	NORDSTROM NO. 143, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH
B17	NIBCO T-FP-600A, 600 PSI NON-SHOCK COLD., 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE. UL LISTED FOR GAS. ASME B16.44	C13	NIBCO T-480-Y-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, BRONZE BODY, SCREWED ENDS, TFE DISC AND SEAT RING, NSF/ASME 61	P12	NORDSTROM NO. 115, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH ASME B16.33

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

ON PIPING 5" AND LARGER PROVIDE BRACING AT EVERY BRANCH OPENING OR CHANGE IN DIRECTION AS REQUIRED BY CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

INSTALL PVC SOIL AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.

PRODUCTS
PVC PIPING SHALL NOT BE USED IN SPACES USED AS PLENUMS

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

SLOPE DRAINAGE PIPING AT 1/4" PER FOOT (2%) FOR PIPING SMALLER THAN 3" AND 1/8" PER FOOT (1%) FOR PIPING 3" AND LARGER.

VENT PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

COUPLINGS AND GASKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING...

PIPING SYSTEM	TYPE
SANITARY PIPING BELOW FLOOR SLAB IN GRADE	P1, CI1, CI2
SANITARY & VENT PIPING ABOVE THE FLOOR	CI1, CI2
STORM DRAINAGE BELOW THE FLOOR IN SLAB	P1, CI1, CI2
STORM DRAINAGE ABOVE FLOOR	CI1, CI2
INDIRECT DRAINS/CONDENSATE DRAIN LINES...	C1, C5, C8

TYPE	DESCRIPTION	TYPE	DESCRIPTION
CI1	NO-HUB CAST IRON (STD) SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
CI2	HUB & SPIGOT CAST IRON ASTM A74, SERVICE CLASS DWV FITTING RUBBER GASKET ASTM C564	C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS
P1	PVC SCHEDULE 40 PVC ASTM D2665 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS	C8	TYPE "K" SOFT COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER

NOTE:
IN ABOVE CEILINGS SPACES USED AS RETURN AIR PLENUMS, SANITARY,STORM, AND VENT PIPING SHALL BE CAST IRON TYPE C1 OR C2. COORDINATE WITH H.C. FOR RETURN AIR PLENUMS LOCATIONS

SANITARY, STORM, AND VENT PIPING ABOVE THE FLOOR SLAB AND WITHIN WALLS MAY BE PVC TYPE P1, ONLY IF ALL (ALL TRADES) WALL PENETRATIONS ARE SEALED TO PREVENT THE PASSAGE OF SMOKE INTO RETURN AIR PLENUMS. TRANSITION TO CAST IRON SHALL OCCUR WITHIN THE WALL.

BUILDING SUPPLY SYSTEMS SCHEDULE WATER & GAS

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWR) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

PRODUCTS
DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE. VALVE 125 PSI. SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIMETER.

UNIONS
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.

MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.

EXTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 COATED OF EXTERIOR GRADE PAINT FOR PROTECTION.

TESTING
DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.

NATURAL GAS PIPING - 100 PSI COMPRESSED AIR FOR 6 HOURS.

PIPING SYSTEM	TYPE
DOMESTIC COLD, HOT AND RECIRCULATING WATER	C1, C4, C5, P2
NATURAL GAS ABOVE GROUND AT PRESSURES 5 PSI & LESS	S1, S2, S6
MISCELLANEOUS UNDERGROUND NATURAL GAS (OUTSIDE OF BUILDING)	PE1

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M 150 LB. C.I. FITTINGS
C4	GROOVED COPPER TYPE "L" HARD COPPER ASTM B88 COPPER ASTM B75 UNS C12200 FITTINGS VICTAULIC STYLE 607 COUPLING	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	S6	PRESS-FIT BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E CARBON STEEL FITTINGS: ASTM A420 OR ASTM B16.3, ANSI LC-4/CSA 6.32, & ASTM F3226
		PE1	POLYETHYLENE PE 2306, 2406 TYPE II GRADE 3, PE 3406, 3408 TYPE III, ASTM D2513 HEAT FUSION JOINTS

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EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
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TITLE
MATERIAL SCHEDULES

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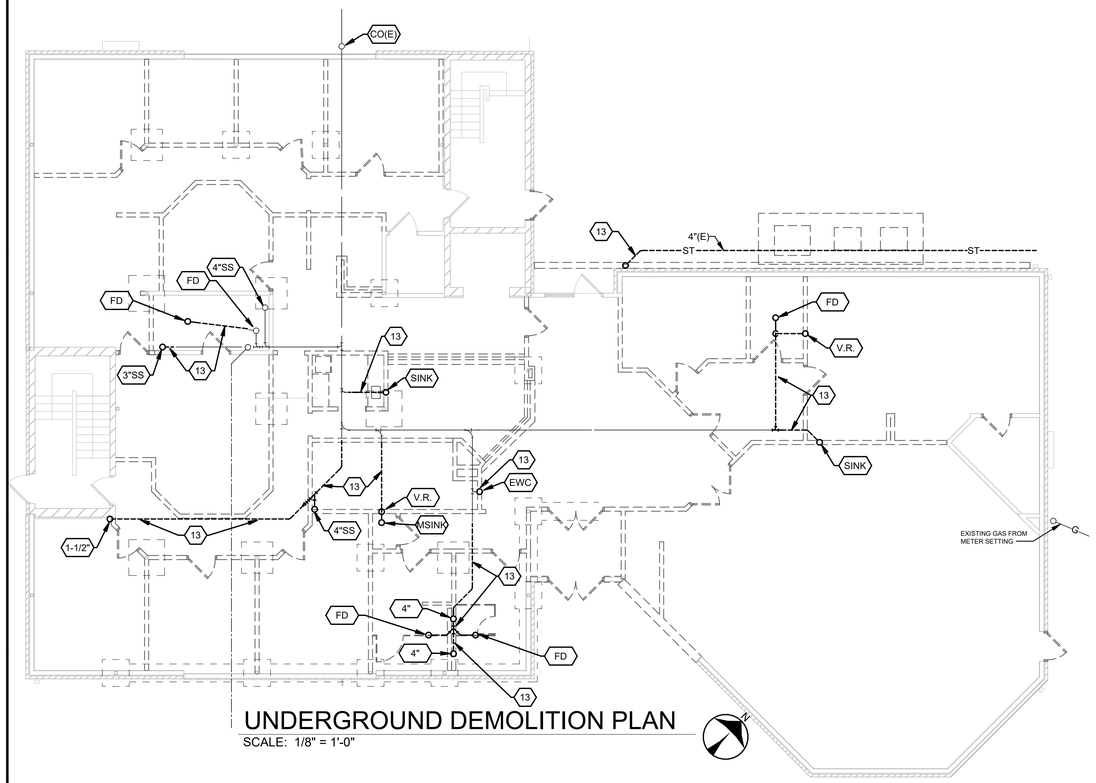
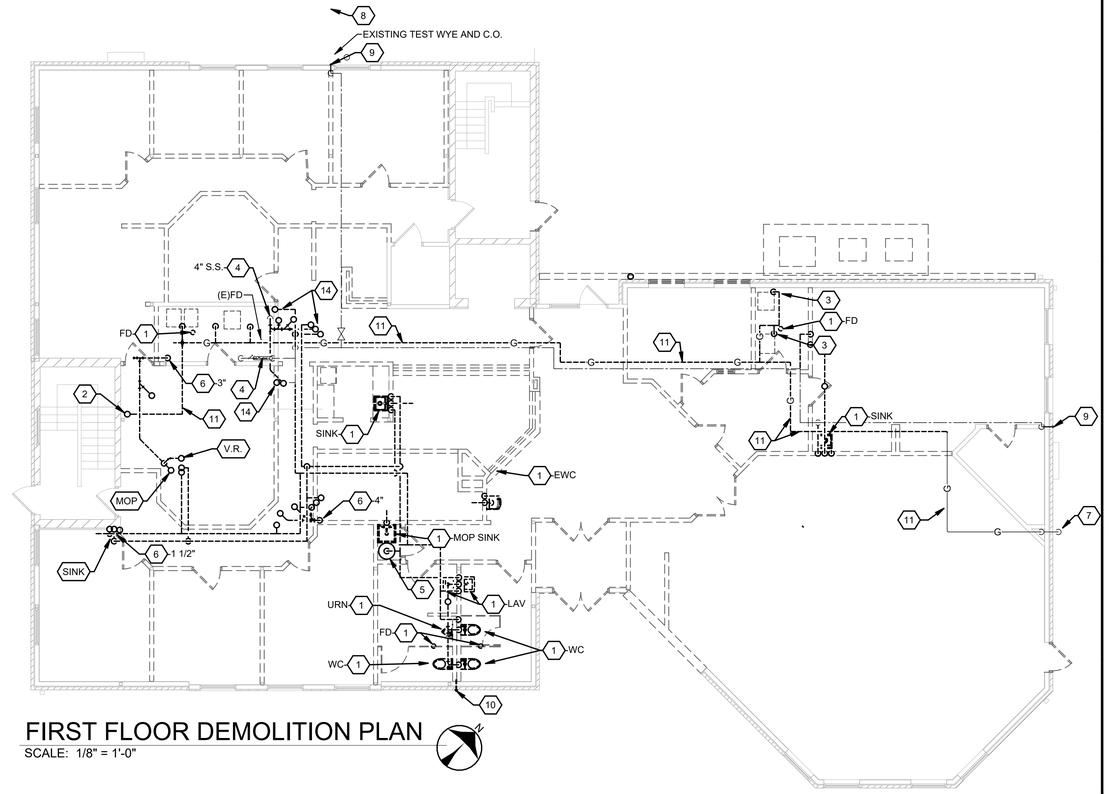


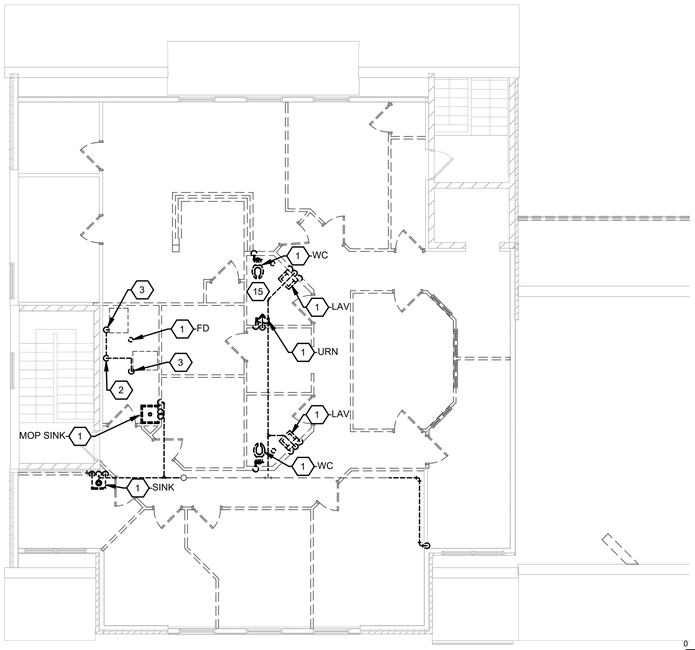
UNDERGROUND DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. REMOVE EXISTING FIXTURE AND ALL ASSOCIATED EXTRANEOUS PIPING.
2. EXISTING 1 1/4" NATURAL GAS RISER TO SECOND FLOOR TO BE REMOVED.
3. DISCONNECT EXISTING NATURAL GAS FROM FURNACE AND REMOVE ALL PIPING.
4. EXISTING 2" DOMESTIC WATER SERVICE ENTRANCE AND BACKFLOW PREVENTER TO REMAIN.
5. EXISTING 30 GALLON ELECTRIC WATER HEATER TO BE REMOVED.
6. EXISTING WASTE STACK TO BE REMOVED.
7. EXISTING 2" GAS FROM METER SETTING. REMOVE EXISTING PIPING THRU WALL. RISER TO REMAIN. SEE NEW WORK PLAN.
8. EXISTING 4" SANITARY BELOW GRADE TO REMAIN.
9. EXISTING WALL HYDRANT TO REMAIN.
10. EXISTING WALL HYDRANT TO BE REMOVED.
11. EXISTING NATURAL GAS PIPING SERVING SECOND FLOOR FURNACES. PIPING TO REMAIN ACTIVE UNTIL SECOND FLOOR DEMOLITION OCCURS. ALL BRANCHES SERVING FIRST FLOOR FURNACES TO BE CAPPED/PLUGGED UNTIL MAIN CAN BE REMOVED.
12. SOIL STACK AND PIPING SERVING SECOND FLOOR FIXTURES ABOVE TO REMAIN ACTIVE UNTIL SECOND FLOOR DEMOLITION.
13. EXISTING PIPING BELOW FLOOR TO BE REMOVED/ ABANDONED.
14. EXISTING PIPING SERVING SECOND FLOOR TOILET ROOM TO REMAIN ACTIVE THRU FIRST FLOOR RENOVATION. PIPING TO BE REMOVED AS INDICATED DURING DEMOLITION PHASE OF SECOND FLOOR WORK.
15. THIS TOILET ROOM TO STAY IN OPERATION WHILE THE FIRST FLOOR IS RENOVATED.

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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TITLE
DEMOLITION PLANS

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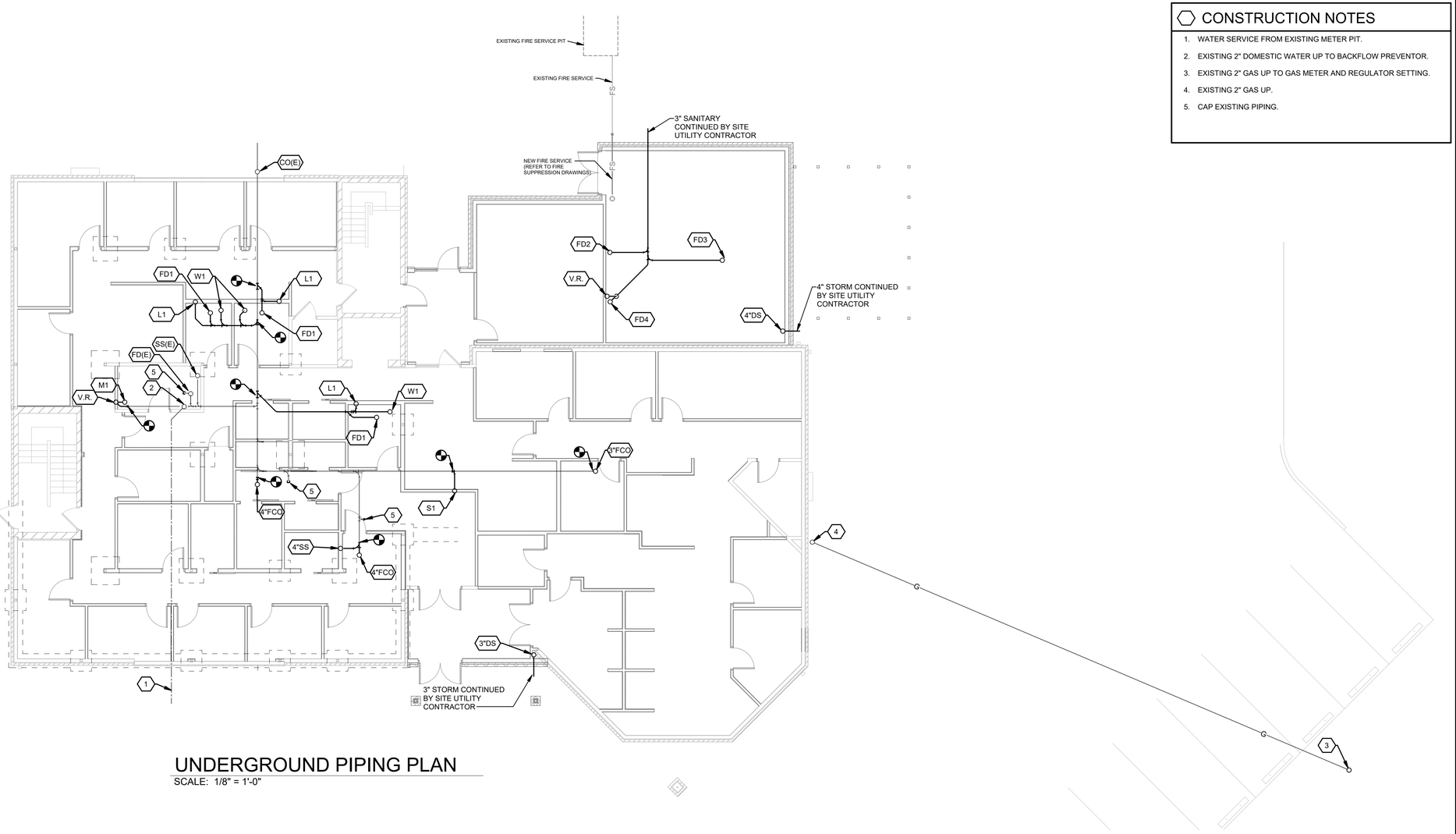

UNDERGROUND PIPING PLAN

SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. WATER SERVICE FROM EXISTING METER PIT.
2. EXISTING 2" DOMESTIC WATER UP TO BACKFLOW PREVENTOR.
3. EXISTING 2" GAS UP TO GAS METER AND REGULATOR SETTING.
4. EXISTING 2" GAS UP.
5. CAP EXISTING PIPING.

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TITLE
UNDERGROUND PIPING PLAN

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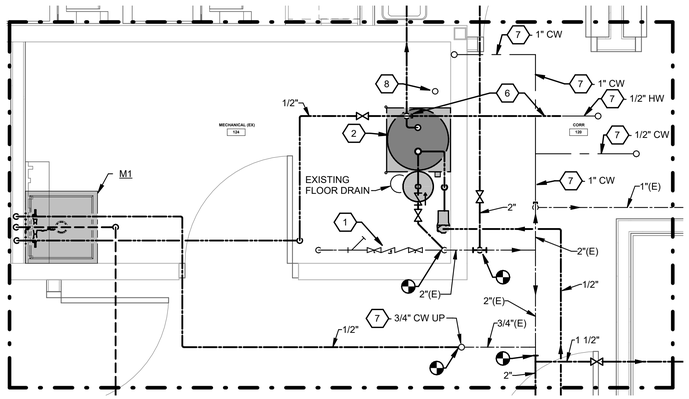
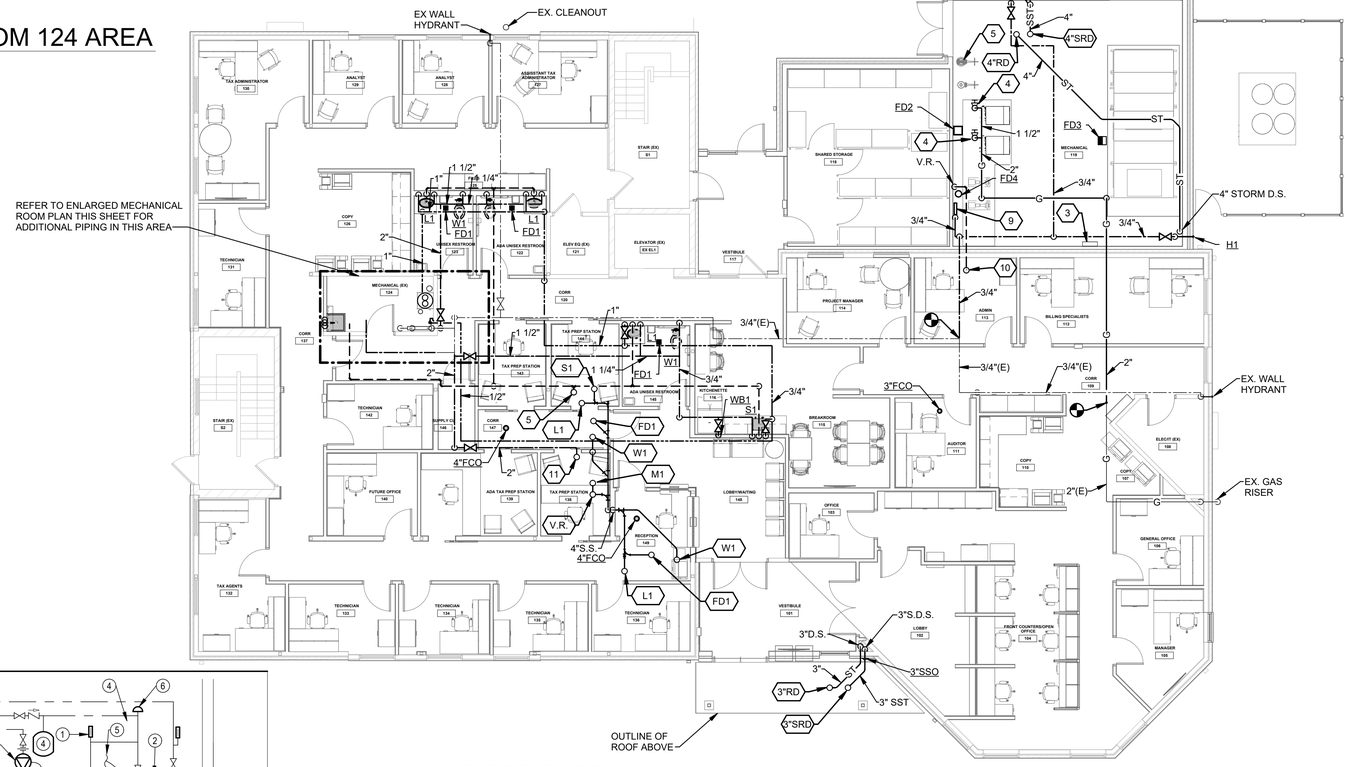


ENLARGED

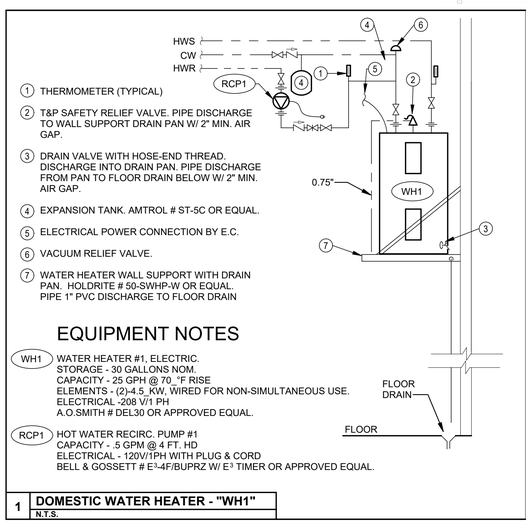
MECHANICAL ROOM 124 AREA

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



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



1. THERMOMETER (TYPICAL)
2. T&P SAFETY RELIEF VALVE. PIPE DISCHARGE TO WALL SUPPORT DRAIN PAN W/ 2" MIN. AIR GAP.
3. DRAIN VALVE WITH HOSE-END THREAD. DISCHARGE INTO DRAIN PAN. PIPE DISCHARGE FROM PAN TO FLOOR DRAIN BELOW W/ 2" MIN. AIR GAP.
4. EXPANSION TANK. AMTROL # ST-5C OR EQUAL.
5. ELECTRICAL POWER CONNECTION BY E.C.
6. VACUUM RELIEF VALVE.
7. WATER HEATER WALL SUPPORT WITH DRAIN PAN. HOLDRITE # 50-SWHP-W OR EQUAL. PIPE 1" PVC DISCHARGE TO FLOOR DRAIN

EQUIPMENT NOTES

WH1 WATER HEATER #1, ELECTRIC.
STORAGE - 30 GALLONS NOM.
CAPACITY - 25 GPH @ 70 °F RISE
ELEMENTS - (2)-4.5_KW, WIRED FOR NON-SIMULTANEOUS USE.
ELECTRICAL -208 V/1 PH
A.O.SMITH # DEL30 OR APPROVED EQUAL.

RCP1 HOT WATER RECIRC. PUMP #1
CAPACITY - .5 GPM @ 4 FT. HD
ELECTRICAL - 120V/1PH WITH PLUG & CORD
BELL & GOSSETT # E³-4F/BUPRZ W/ E³ TIMER OR APPROVED EQUAL.

1 DOMESTIC WATER HEATER - "WH1"
N.T.S.

CONSTRUCTION NOTES

1. EXISTING 2" DOMESTIC WATER BACKFLOW PREVENTER.
2. NEW 20 GALLON ELECTRIC WATER HEATER "WH1" ON WALL MOUNTED SHELF. REFER TO DETAIL THIS SHEET.
3. NEW ELECTRICAL PANEL.
4. DROP 1 1/2" NATURAL GAS DOWN TO SERVE BOILER (BY H.C.). PROVIDE SHUT OFF VALVE, FULL SIZE DIRT LEG AND UNION. REFER TO GAS CONNECTION DETAIL SHEET P3.1.
5. 2" VENT RISER UP TO SECOND FLOOR.
6. RUN 1/2" FROM NEW WATER HEATER AND CONNECT TO HOT WATER SERVING SECOND FLOOR TOILET ROOM. UNDER SECOND FLOOR RENOVATION REMOVE LINE BACK TO ACTIVE MAIN AND CAP.
7. EXISTING PIPING (SERVING SECOND FLOOR TOILET ROOM) TO REMAIN ACTIVE THRU FIRST FLOOR RENOVATION. REMOVE PIPING BACK ACTIVE MAIN AND CAP AFTER DEMOLITION OF SECOND FLOOR BATHROOM.
8. EXISTING 4" SOIL STACK CAP AT TOP AFTER REMOVAL OF SANITARY PIPING TO SECOND FLOOR TOILET ROOM.
9. 3/4" REDUCED PRESSURE BACKFLOW PREVENTER FOR HVAC MAKE-UP WATER. OUTLET CONTINUED BY H.C. PIPE DISCHARGE TO FLOOR DRAIN.
10. 1 1/2" VENT UP INTO ATTIC SPACE.
11. 2" COLD WATER UP TO SECOND FLOOR.

EXISTING SERVICE REGULATOR AND GAS METER

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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PROJECT # 25029

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/2025
JOB NO.	4278.01
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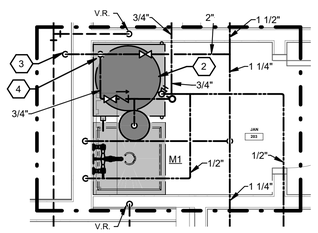
TITLE
FIRST FLOOR NEW WORK

SHEET NO.
P2.1

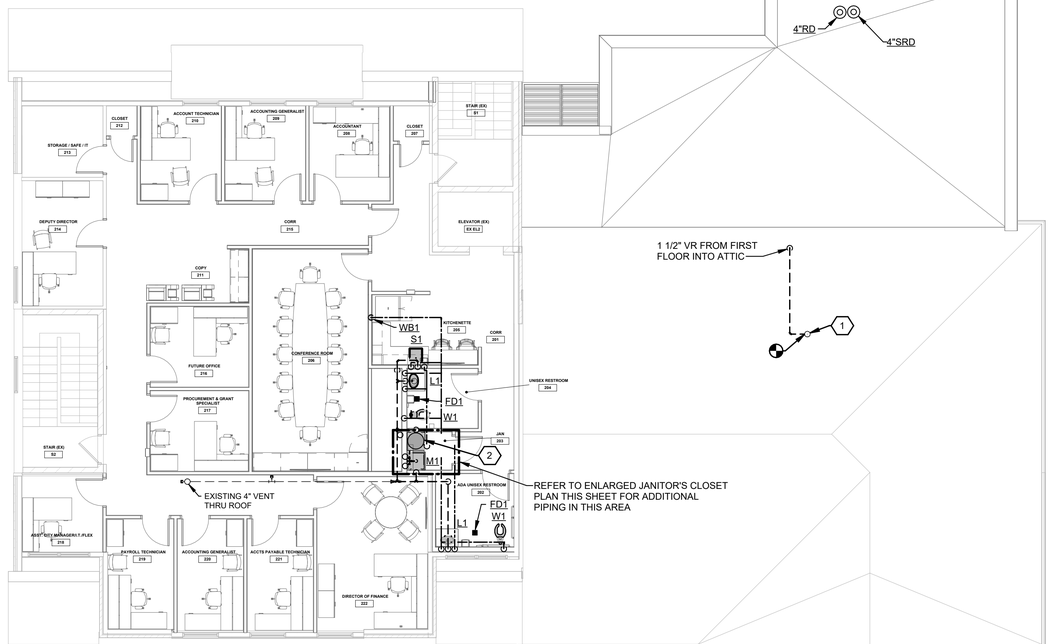
10/29/2025 9:10:33 AM

CONSTRUCTION NOTES

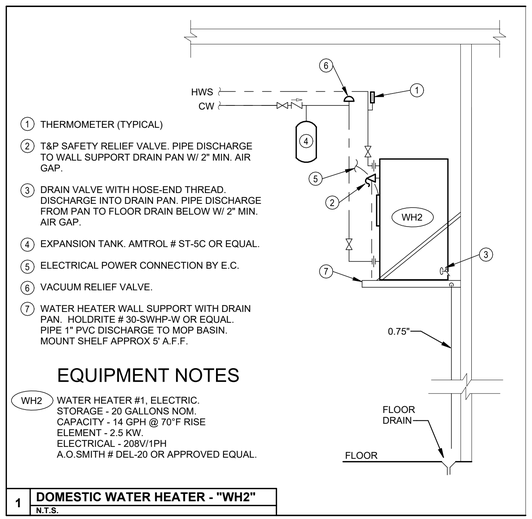
1. EXISTING 1 1/2" VENT UP TO 3" VENT THRU ROOF.
2. NEW 20 GALLON ELECTRIC WATER HEATER "WH2" ON WALL MOUNTED SHELF. REFER TO DETAIL THIS SHEET.
3. 2" COLD WATER FROM BELOW.
4. DROP 3/4" COLD WATER DOWN THRU CEILING TO SERVE WATER HEATER "WH2".
5. 2" VENT RISER FROM BELOW.



ENLARGED
JANITOR'S CLOSET 203
SCALE: 1/2" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



1. THERMOMETER (TYPICAL)
2. T&P SAFETY RELIEF VALVE. PIPE DISCHARGE TO WALL SUPPORT DRAIN PAN W/ 2" MIN. AIR GAP.
3. DRAIN VALVE WITH HOSE-END THREAD. DISCHARGE INTO DRAIN PAN. PIPE DISCHARGE FROM PAN TO FLOOR DRAIN BELOW W/ 2" MIN. AIR GAP.
4. EXPANSION TANK. AMTROL # ST-5C OR EQUAL.
5. ELECTRICAL POWER CONNECTION BY E.C.
6. VACUUM RELIEF VALVE.
7. WATER HEATER WALL SUPPORT WITH DRAIN PAN. HOLDRITE # 30-SWHP-W OR EQUAL. PIPE 1" PVC DISCHARGE TO MOP BASIN. MOUNT SHELF APPROX 5' A.F.F.

EQUIPMENT NOTES

WH2 WATER HEATER #1, ELECTRIC.
STORAGE - 20 GALLONS NOM.
CAPACITY - 14 GPH @ 70°F RISE
ELEMENT - 2.5 KW.
ELECTRICAL - 208V/1PH
A.O.SMITH # DEL-20 OR APPROVED EQUAL.

1 **DOMESTIC WATER HEATER - "WH2"**
N.T.S.

0 4 8 16 24 32 40
SCALE: 1/8"=1'-0"

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TITLE
SECOND FLOOR NEW WORK

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PROJECT # 25029

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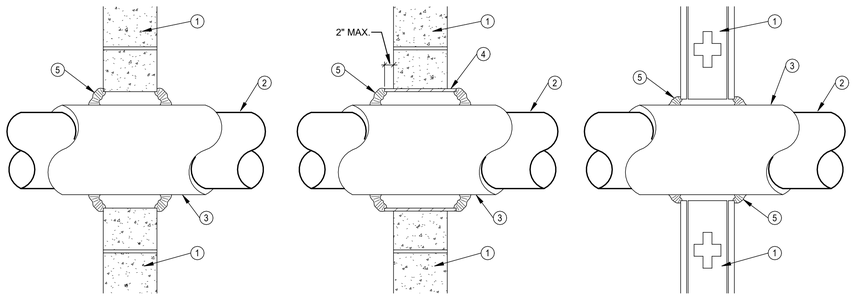


CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

GYPSUM CONSTRUCTION
ALL PIPE SIZES

1. FULL HEIGHT INTERIOR WALL.
2. PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
5. CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

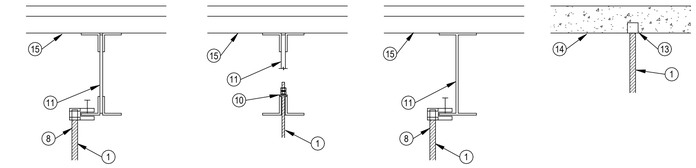
GENERAL NOTE:

A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:

- IN FLOOR SLABS ON GRADE.
- IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
- FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
- IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
- IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.

B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

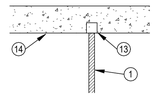
2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



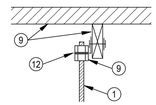
STEEL JOIST CONSTRUCTION
PIPES 2.0" & SMALLER

STEEL JOIST CONSTRUCTION
PIPES 2.5" & LARGER

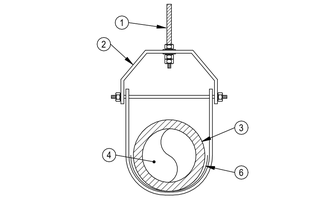
STEEL BEAM CONSTRUCTION
ALL PIPE SIZES



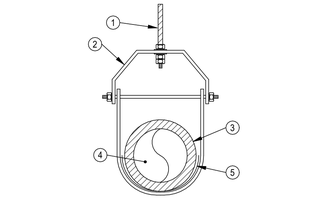
CONCRETE CONSTRUCTION



WOOD CONSTRUCTION



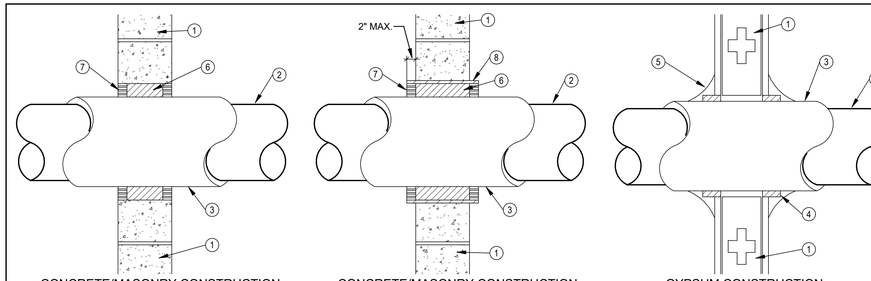
PIPING 2.5" & LARGER



PIPING 2.0" & SMALLER

1. GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
2. STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
3. PIPE INSULATION.
4. PIPE.
5. 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
6. 18" LONG INSULATED PIPE SADDLES. BUCKAROOS TRU-BALANCE 3300E OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PNENOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
7. PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
8. THREADED ROD BEAM CLAMP.
9. WOOD DECK & BEAM.
10. RETAINING NUTS & WASHERS.
11. STEEL JOIST OR BEAM.
12. 90 DEGREE SIDE BEAM BRACKET WITH THREADED ROD INTO WOOD.
13. CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
14. CONCRETE SLAB OR PLANK.
15. METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.

1 PIPE HANGERS
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

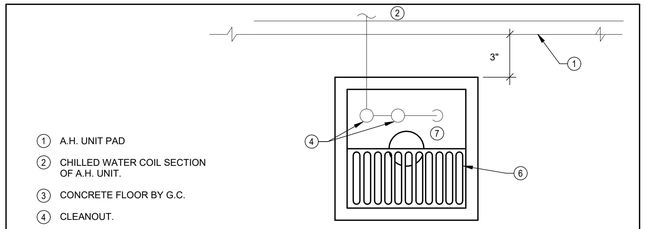
GYPSUM CONSTRUCTION
ALL PIPE SIZES

FIRESTOPPING MATERIALS/INSTALLATION

- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

1. RATED WALL ASSEMBLY.
2. METALLIC PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
5. APPROVED FIRESTOPPING CAULK OR SEALANT.
6. PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
7. APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
8. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

5 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.

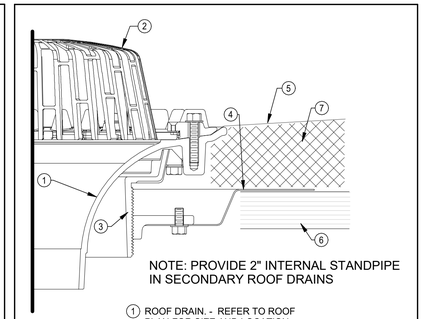


1. A.H. UNIT PAD
2. CHILLED WATER COIL SECTION OF A.H. UNIT.
3. CONCRETE FLOOR BY G.C.
4. CLEANOUT.
5. DRAIN PIPING BY H.C. DISCHARGE OVER OPEN PORTION OF DRAIN. MAINTAIN MIN. 2" AIR GAP.
6. HALF STRAINER.
7. FLOOR SINK. SEE PLAN FOR TYPE.

PLAN VIEW

ELEVATION SECTION

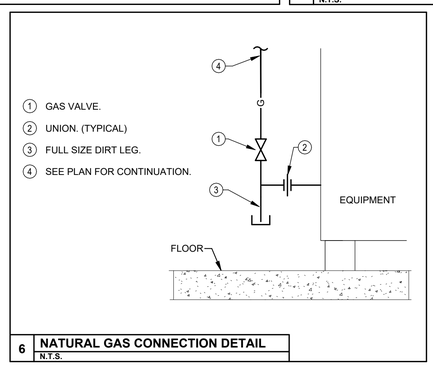
4 A.H. UNIT FLOOR DRAIN - SLAB ON GRADE
N.T.S.



NOTE: PROVIDE 2" INTERNAL STANDPIPE IN SECONDARY ROOF DRAINS

1. ROOF DRAIN. - REFER TO ROOF PLAN FOR SIZE AND LOCATION.
2. DOME STRAINER.
3. CAST IRON ADJUSTABLE EXTENSION.
4. DECKPLATE.
5. WATER PROOF MEMBRANE.
6. PLYWOOD ROOF DECK.
7. TAPERED RIGID INSULATION.

3 ROOF DRAIN
N.T.S.



1. GAS VALVE.
2. UNION. (TYPICAL)
3. FULL SIZE DIRT LEG.
4. SEE PLAN FOR CONTINUATION.

6 NATURAL GAS CONNECTION DETAIL
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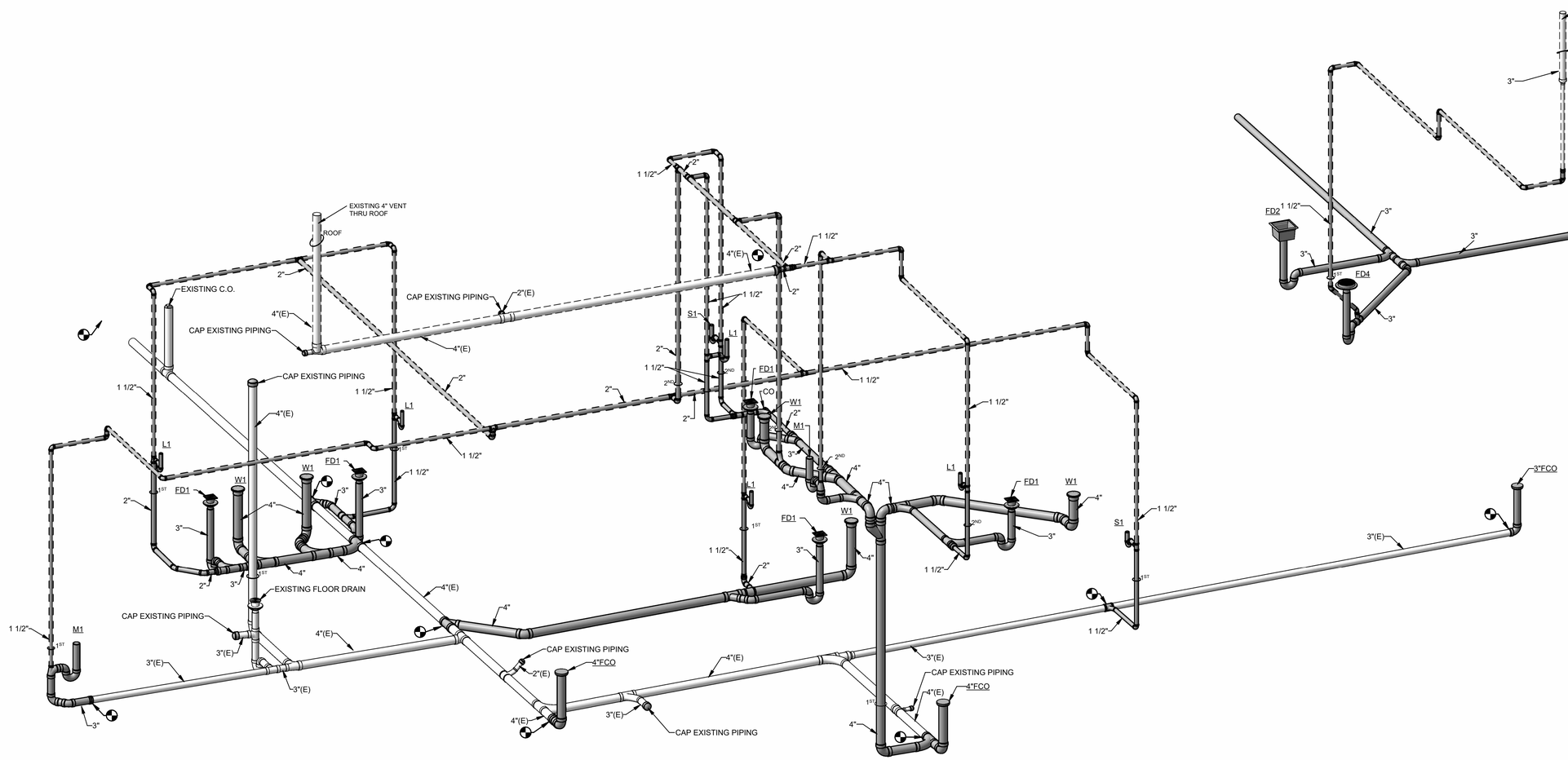

SOIL, WASTE, AND VENT

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TITLE
SOIL, WASTE, AND VENT DIAGRAM

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PROJECT # 25029

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GENERAL HVAC REMOVAL NOTES

A. GENERAL - THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THESE DRAWINGS SHALL NEITHER BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR A THOROUGH SITE INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL PIPE AND/OR DUCTWORK SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM(S) BEING REMOVED.

B. GENERAL REMOVALS - THE HVAC CONTRACTOR IS TO REMOVE ALL EXISTING, ACCESSIBLE UNUSED OR ABANDONED DEVICES, PIPING, WIRING, DUCTWORK AND SUPPORT HANGERS OR STRUCTURES TOTALLY BACK TO SOURCE. IN NO CASE SHALL ANY ABANDONED PIPING, WIRING, DUCTWORK, OR EQUIPMENT REMAIN WITHIN THE CONSTRUCTION AREA OR IN ADJACENT AREAS TO MECHANICAL ROOMS OR CLOSETS. ONLY ITEMS THAT ARE INACCESSIBLE SHALL BE ALLOWED TO BE ABANDONED IN PLACE WITH ALL ACCESSIBLE SERVICES APPROPRIATELY CAPPED.

C. SUPPORTS REMOVALS - ALL SUPPORTS SHALL BE REMOVED ENTIRELY FROM DEMOLISHED PIPING, DUCTWORK AND EQUIPMENT. REMAINING ACTIVE PIPING, DUCTWORK, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED, AS IN THE CASE OF DUCTWORK OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW UTILITIES. NEW SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.

D. WALL REMOVALS - RECESSED DEVICES TO BE ABANDONED IN EXISTING WALLS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVER PLATES AND PAINTED TO MATCH FINISH. WHERE REMOVALS ARE COMPLETELY REMOVED FROM FACE OF WALL, PATCH WALL CONSISTENT WITH ADJACENT FINISH. SURFACE MOUNTED REMOVED DEVICES SHALL HAVE SURFACE REPAIRED AND FINISHED TO MATCH ADJACENT EXISTING OR NEW ARCHITECTURAL FINISHES.

E. ROOF REMOVALS - DEVICES, SERVICES, SUPPORTS & EQUIPMENT REMOVED FROM ROOF SHALL BE REMOVED. THE HVAC CONTRACTOR SHALL ENGAGE A ROOFING CONTRACTOR TO PATCH THE ROOFING CONSISTENT WITH THE EXISTING ROOF WARRANTY.

F. ABANDONED SERVICES - ALL INACTIVE DUCT AND PIPE ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY AND CAPPED AT NEAREST ACTIVE MAINS.

G. EQUIPMENT REMOVAL/DISPOSAL COORDINATION - COORDINATE REMOVAL ITEMS CLOSELY WITH OWNER. ANY ITEMS REMOVED WITHIN THE CONSTRUCTION AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER. ALL OTHERS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REQUIRED TO BE DISPOSED OF ACCORDINGLY. DISPOSALS REGUALTED BY EPA SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST REQUIREMENTS AND DOCUMENTED.

H. PROTECTION - EXISTING MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES. PROVIDE ADEQUATE PROTECTION TO ALL EXPOSED SURFACES AND EQUIPMENT WITHIN THE REMOVAL AREA.

I. ACTIVE EQUIPMENT & SERVICES - ANY EXISTING EQUIPMENT OR DEVICES TO REMAIN IN ADJACENT SPACES MADE INACTIVE BY REMOVAL OF DEVICES OR WIRING WITHIN THE CONSTRUCTION AREA SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OR EQUIPMENT OPERATIONAL.

J. DAMAGED SERVICES & INSULATION - EXISTING PIPING & DUCTWORK TO REMAIN WITH DAMAGED INSULATION ENCOUNTERED IN AREAS OF WORK SHALL HAVE DAMAGED INSULATION REMOVED AND REPLACED WITH NEW. INSULATION THICKNESS SHALL MATCH EXISTING CONDITION. WORK TO BE PERFORMED ON A TIME AND MATERIAL BASIS AS ENCOUNTERED. SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

K. OPENINGS & PATCHING - WHERE DUCTWORK, PIPING, EQUIPMENT, OR AIR DEVICES ARE REMOVED THROUGH WALLS, FLOORS, CEILINGS AND ROOF, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND FINISH CONSISTENT WITH THE EXISTING OR NEW ARCHITECTURAL FINISHES FOR THAT AREA. OPENINGS OR HOLES EXPOSED TO EXTERIOR CONDITIONS SHALL BE MADE WEATHER-TIGHT AND WATERPROOF AND CONSISTENT WITH ADJACENT WALL FINISHES. PATCHING AND SEALING TO BE CONSISTENT WITH FIRE AND SMOKE STOPPING AND RATING.

CMU WALLS - GROUT SMALL PENETRATIONS CLOSED. TOOTH IN WITH NEW BLOCKING FOR LARGE HOLES.
BRICK WALLS - TOOTH IN WITH NEW BRICK
GYPSUM BOARD WALLS - REPLACE WITH NEW GYPSUM BOARD
STRUCTURAL METAL ROOF/FLOOR DECKING - REPLACE WITH NEW DECKING, SAME AS EXISTING SIZE
CONCRETE FLOORS/WALLS - GROUT PENETRATIONS CLOSED
WOOD FLOORS/WALLS - PATCH CONSISTENT WITH WOOD TYPE

L. ASBESTOS REMOVALS - ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO OWNER AND PROJECT MANAGER. ALL WORK IN THAT AREA SHALL CEASE UNTIL DEEMED SAFE.

M. CEILING REMOVALS - THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, STORAGE AND RE-INSTALLATION OF CEILING GRID AND TILES AS REQUIRED FOR WORK. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENTS, IF DAMAGED.

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
6. PROVIDE APPROPRIATE FIRE-STOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
7. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
10. PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. HVAC CONTRACTOR SHALL PROVIDE AN INITIAL ¼" =1'0" SET OF DRAWINGS AND DISTRIBUTED TO OTHER TRADE CONTRACTORS FOR COORDINATION. ALL CONTRACTORS SHALL COOPERATE TO MODIFY THEIR RESPECTIVE MATERIAL AND EQUIPMENT INSTALLATION AND DEPICT ON A DETAILED, FINISHED COORDINATION SET OF DRAWINGS BEFORE INSTALLATION. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
11. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
12. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
13. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
14. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
15. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
16. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
17. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
18. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 16 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

PIPING LEGEND

- INDICATES DIRECTION OF FLOW
- HWS / HWS — HOT WATER SUPPLY
- HWR / HWR — HOT WATER RETURN
- NP / NP — NON-POTABLE WATER
- L — REFRIGERANT - LIQUID
- S — REFRIGERANT - SUCTION
- HPG — REFRIGERANT - HIGH/LOW PRESSURE GAS
- S/L — REFRIGERANT - SUCTION & LIQUID, 2 PIPES TOTAL
- FLEXIBLE CONNECTION
- CAP
- CONNECTION, BOTTOM
- CONNECTION, TOP
- CONNECTION, SIDE
- ELBOW, 90°, LONG RADIUS
- ELBOW, 45°, LONG RADIUS
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN
- REDUCER
- UNION, SCREWED
- PIPE HOSE THREAD CONNECTION
- (P) — PRESSURE GAUGE
- TEMPERATURE GAUGE
- MV — AIR VENT
  MV = MANUAL
  AV = AUTOMATIC

DUCTWORK LEGEND

- 20/12 / 20/12 — RECTANGULAR DUCT
  FIRST FIGURE IS SIDE SHOWN
- 10"Ø / 10"Ø — ROUND DUCT
  DIAMETER INDICATED
- 24/14Ø / 24/14Ø — FLAT OVAL DUCT
  FIRST FIGURE IS SIDE SHOWN
- DUCT WITH INTERIOR ACOUSTIC LINER
- FLEXIBLE FABRIC STEEL DUCT
- INSULATED FLEXIBLE DUCT
- R — CHANGE OF ELEVATION
  R = RISE, D = DROP
- ELBOW WITH TURNING VANES
- 20/12 — ROUND RUNOUT DUCT TAP TO RECTANGULAR DUCT WITH SPIN-IN FITTING, SEE DETAIL
- 10"Ø — ROUND RUNOUT DUCT FITTING IN ROUND DUCT MAIN
- VOLUME DAMPER
- AUTOMATIC CONTROL DAMPER
  REFER TO CONTROL DIAGRAMS FOR TYPE.
- FD — FIRE DAMPER
- S — DUCT MOUNTED SMOKE DETECTOR
- SUPPLY DUCT SECTION - RISE, DROP
- RETURN DUCT SECTION - RISE, DROP
- VARIABLE AIR VOLUME UNIT WITH REHEAT COIL
- VARIABLE AIR VOLUME UNIT WITHOUT REHEAT COIL
- S1-8" / 300 — SUPPLY AIR DEVICE S1
  SEE SCHEDULE AND DETAIL
  8" NECK SIZE
  300 = REQUIRED AIR FLOW (CFM)
- R1 — TRANSFER AIR DEVICE
  R1 DEVICE TAG, SEE SCHEDULE AND DETAIL
- R1 / 300 — RETURN/EXHAUST
  DEVICE TAG: R=RETURN, E=EXHAUST
  300 = REQUIRED AIR FLOW (CFM)
  DEVICE SIZE AS INDICATED IN AIR DEVICE SCHEDULE
- S2-24/12 / 300-8' 6" — SIDEWALL AIR DEVICE
  SEE AIR DEVICE SCHEDULE
  24/12 = DEVICE SIZE
  300 = AIR FLOW (CFM)
  8' 6" = MOUNTING HEIGHT (AFF)
- S3-6" / 150-2 — LINEAR SLOT PLENUM
  S3 - DEVICE TAG, SEE AIR DEVICE SCHEDULE
  6" = ROUND DUCT CONNECTION SIZE
  150 = AIR FLOW (CFM)
  2 = NO. OF SLOTS
- (E) / 120 — EXISTING AIR DEVICE
  REBALANCE TO AIR FLOW INDICATED
- T — ROOM TEMPERATURE SENSOR

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
MH	MOUNTING HEIGHT.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
	CONNECTION, NEW TO EXISTING.
	1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
H0.1	LEGENDS, NOTES & INDEX
H0.2	MATERIAL SCHEDULES
H0.3	HEATING HOT WATER SYSTEM SCHEDULES & DETAILS
H0.4	AIR HANDLING UNIT SECTIONS & DETAILS
H0.5	EQUIPMENT SCHEDULES
H1.1	FIRST & SECOND FLOOR DEMOLITION PLANS
H2.1	FIRST & SECOND FLOOR NEW WORK PLANS
H3.1	MECHANICAL ROOM PLAN & SECTIONS
H4.1	DETAILS - DUCTWORK
H4.2	DETAILS - DUCTWORK
H4.3	DETAILS - DUCTWORK EQUIPMENT & ACCESORIES
H4.4	DETAILS - PIPING
H4.5	DETAILS - MECHANICAL ROOM
H5.1	CONTROLS LEGEND, NOTES & MISC. CONTROLS DIAGRAM
H5.2	HEATING HOT WATER SYSTEM CONTROLS DIAGRAM
H5.3	AIR HANDLING UNIT CONTROLS DIAGRAM
H6.1	VENTILATION CALCULATIONS

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EXPIRATION DATE 12/31/2025

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City of Huber Heights Tax, Finance & Water Departments
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DATE	11/12/25
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DRAWN	DRH
CHECKED	JDZ

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TITLE
LEGENDS, NOTES & INDEX

SHEET NO.
H0.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

10/27/2025 11:32:56 AM

PIPING SYSTEMS - HVAC

PIPING SYSTEM	TYPE
HOT WATER - 0.50" TO 2"	S2, C1, C2, C5
COLD WATER MAKE-UP	C1, C5
COIL CONDENSATE DRAINAGE	C3, P1
REFRIGERANT COPPER TUBE	R1
REFRIGERANT COPPER COIL	R2

TYPE	DESCRIPTION	TYPE	DESCRIPTION
S2	THREADED BLACK STEEL SCHEDUE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER ASTM B75 C12200 FITTINGS 250 DEG. F. EPDM SEALS
C2	BRAZED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 15% SILVER ALLOY	P1	PVC SCHEDULE 40 PVC ASTM D2665 DWV FITTINGS, ASTM D3311 GLUED JOINTS
R1	COPPER TUBE REFER TO SPECIFICATION 23 2300.	R2	COPPER COIL REFER TO SPECIFICATION 23 2300

FIRE RATED ASSEMBLY PENETRATIONS

GENERAL NOTES:

1. REFER TO THE ARCHITECTS LIFE SAFETY DRAWING FOR INFOMRATION ON RATED ASSEMBLIES ON THIS PROJECT.
2. REFER TO SPECIFCATION 23 0004, 23 0529, 23 3300 FOR INFORMATION ON SYSTEMS SPECIFIED PER THIS SCHEDULE.
3. FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPER ACCESS DOORS SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION. FOR HORIZONTAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED ON THE BOTTOM OF DUCTWORK. FOR VERTICAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED AT THE FLOOR LEVEL ON THE HIGHER FLOOR (I.E., A PENETRATION THROUGH THE 1ST AND 2ND FLOOR SHALL HAVE THE ACCESS DOOR LOCATED ON THE 2ND FLOOR LEVEL).

	DUCTWORK					PIPING			
ASSEMBLY TYPE	FIRE DAMPER	FIRE STOPPING	PLIABLE CAULK	SMOKE DAMPER	COMBINATION FIRE / SMOKE	FIRE STOPPING	PLIABLE CAULK	CAST-IN PLACE FIRESTOP SYS.	NOTES
FIRE BARRIER	●	●				●			1
FIRE WALLS	●					●			
FIRE WALL HORIZONTAL EXIT					●	●			
FIRE BARRIER HORIZONTAL EXIT					●	●			
SHAFT ENCLOSURE	●	●		●	●	●			2
FIRE PARTITIONS	●					●			1
SMOKE BARRIER				●		●			3
RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●		●	4
NON-RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●			5

NOTES:

1. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING.
2. PROVIDE FIRE DAMPER, SMOKE DAMPER, OR COMBINATION FIRE/SMOKE ONLY WERE INDICATED ON DRAWINGS. OBC 717.5.3 EXCEPTIONS ALLOW THE ELIMINATION OF SOME DAMPERS. WHERE FIRE DAMPERS ARE NOT INDICATED, PROVIDE FIRE STOPPING.
3. PROVIDE SMOKE DAMPERS ONLY WHERE INDICATED ON DRAWING. FOR DUCTS WITHOUT SMOKE DAMPERS, PROVIDE FIRE STOPPING.
4. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING. NOTE: DUCTS PENETRATING RATED FLOORS MAY BE WITHIN A SHAFT ENCLOSURE, REFER...
5. DUCTS PENETRATING NON-RATED, NON-COMBUSTIBLE FLOORS AND NOT ENCLOSED IN A SHAFT REQUIRE A FIRE DAMPER. DUCTS PENETRATING NON-RATED, COMBUSTIBLE FLOORS AND NOT WITHIN A SHAFT REQUIRE FIRE STOPPING.

PIPE INSULATION SCHEDULE

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
HOT WATER ≤ 1.25"	1.5"	F1	INTERIOR
HOT WATER ≥ 1.5"	2"	F1	INTERIOR
DOMESTIC MAKE-UP WATER	0.5"	F1	INTERIOR
REFRIGERANT LIQUID	0.75"	E2	INTERIOR/EXTERIOR
REFRIGERANT SUCTION	0.75"	E2	INTERIOR/EXTERIOR
COOLING COIL CONDENSATE	0.5"	F1, F3	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #SSL II WITH ASJ MAX JACKET	- KNAUF - JOHNS MANVILLE - MANSON -CERTAINTEED	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F, 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
F3	OWENS CORNING #PIPE SHIELD FIBERGLASS PIPE INSULATION	- KNAUF #1000" PIPE, - JOHNS MANVILLE #MICRO-LOK HP	HIGH DENSITY, RESIN BONDED INORGANIC GLASS FIBERS, 850 DEG F. RATED OPERATING TEMPERATURE. PREFORMED TUBULAR. K=0.54 @ 500 DEG. F. LONGITUDINAL WRAP, SELF-SEALING ADHESIVE. WHITE POLYMER JACKET, 225 DEG. F. RATING.
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.
P1	ITW #TRYMER 4000	-	RIGID, PRE-FORMED, CLOSED CELL, POLYISOCYANURATE TUBULAR INSULATION K=0.19 @ 75 DEG. F. 4.0 PCF. LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. ELBOWS PRE-MOLDED VAPOR BARRIER: PROVIDED WITH INSULATION, #SARANEX 560CX VAPOR RETARDER, COMPLIANT WITH ASTM C1136, TYPE VIII METAL JACKET AND BANDING: PROVIDED WITH INSULATION EMBOSSED ALUMINUM JACKETING COMPLIANT WITH ASTM C1729.

VALVE SCHEDULE

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	PLUG
HOT WATER - 0.5" TO 2"		B1	C1, C3		E1	

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B1	BALL VALVE NIBCO T-580-70/T-585-70 150 W.W.P. 2-PIECE FULL PORT BRONZE BODY THREADED/PRESS ENDS CHROME PLATED BRONZE BALL/BRONZE STEM TFE SEAT AND SEAL HANDLE.	C1	CHECK VALVE NIBCO T-413-Y 125 W.W.P. BRONZE BODY Y-PATTERN, THREADED ENDS, RENEWABLE BRONZE SWING DISC TFE SEAT RING	E1	BALANCING VALVE BELL & GOSSETT MODEL CB 125 W.W.P. BRONZE BODY BRASS BALL THREADED ENDS READOUT & DRAIN PORTS TFE SEATS CALIBRATED NAMEPLATE HANDLE WITH MEMORY STOP
		C3	CHECK VALVE NIBCO T-480-Y 125 W.W.P. IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK BRONZE BODY THREADED ENDS TFE DISC AND EAT RING		

EQUIPMENT NOTES

#	
DS-1	DUCT SILENCER - RETURN AIR BASIS OF DESIGN: VIBRO-ACOUSTICS AIRFLOW: 8,000 CFM MAX. PRESSURE DROP: 0.3" CASING: 22 GA GALVANIZED MEDIA FILL: ACOUSTIC GRADE GLASS FIBER REFER TO SPECIFICATION 23 3330 FOR SOUND DISSIPATION CHARACTERISTICS DIMENSIONS: 84"L / 40"W / 22"H

DUCTWORK SYSTEMS SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
OUTDOOR RETURN/EXHAUST AIR	ALL	G1	-2"	C	
OUTDOOR SUPPLY AIR	ALL	G1	+4"	A	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - VAV UPSTREAM	CONCEALED	G1	+4"	A	
SUPPLY AIR - VAV UPSTREAM	EXPOSED	G2	+4"	A	1
SUPPLY AIR - VAV DOWNSTREAM	CONCEALED	G1	+1"	C	
SUPPLY AIR - VAV DOWNSTREAM	EXPOSED	G2	+1"	C	1
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
FLEXIBLE DUCTWORK - RET./EXH./TRANSFER	CONCEALED	C2	+10" -5"	N.A.	
COMBUSTION AIR	ALL	G1, P2	-2"	A	
EXHAUST FLUE - BOILER	ALL	D1	+4"	A	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORICING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
C2	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 4.2 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
D1	DOUBLE WALL FLUE	REFER TO SPECIFICATION 23 5100 FOR INFORMATION.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.
P2	CHLORINATED POLYVINYL CHLORIDE	SCHEDULE 40 CPVC PIPE PER ASTM F441, SOCKET END FITTINGS PER ASTM F439, SOLVENT WELDED JOINTS.

NOTES:

1. DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR CONCEALED AND EXPOSED INSTALLATIONS.

DUCTWORK INSULATION SCHEDULE

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED/MECH RM	
OUTDOOR AIR DUCT & PLEMUNS	1.5"	1	CONCEALED	
OUTDOOR AIR DUCT & PLEMUNS	2"	2	EXPOSED/MECH RM	
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
RELIEF AIR DUCT & PLENUMS	-	-	CONCEALED	
RELIEF AIR DUCT & PLENUMS	-	-	EXPOSED	
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	EXPOSED	
LINED RETURN/TRANSFER AIR DUCT	1"	3	CONCEALED	

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED
3	OWENS-CORNING QUIET R ROTARY DUCT LINER	KNAUF JM CERTAIN TEED JOHNS MANVILLE	MATERIAL FIBERGLASS DUCT LINER K = 0.23 @ 75 DEG. F JACKET - NONE JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - COMPLIES WITH ASTM C916 TAPE - NONE LEADING EDGES - METAL NOSING

NOTES:

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REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

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6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE		
NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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TITLE
MATERIAL SCHEDULES

SHEET NO.
H0.2

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

10/27/2025 11:33:05 AM

BOILER SCHEDULE - HEATING HOT WATER

GENERAL NOTES

BASIS OF DESIGN: RBI
FUEL TYPE - NATURAL GAS FIRED OPERATION.
NATURAL GAS DELIVERY PRESSURE - 7" W.C. (4" W.C. MIN - 14" W.C. MAX)
FLUID TYPE - WATER
BOILER RELIEF PRESSURE: 50 PSIG

UNIT	LOCATION	TYPE	GROSS INPUT (MBH)	GROSS OUTPUT (MBH)	FLOW RATE (GPM)	E.W.T. (DEG. F)	L.W.T. (DEG. F)	MIN. EFF. (%)	INTAKE SIZE	FLUE SIZE	MAX W.P.D. (FT. HEAD)	MIN. TURNDOWN RATIO	WATER VOLUME (GAL)	ELECTRICAL		DIMENSIONS (W x H x D)	MFR/MODEL NO.	NOTES
														V/PH	FLA			
B-1	MECH ROOM	WATER TUBE CONDENSING BOILER	300	291	29	140	120	97	5"ø	4"ø	6.3	8:1	4	120/1	12	25" x 41" x 41"	RBI #TORUS 300	ALL
B-2	MECH ROOM	WATER TUBE CONDENSING BOILER	300	291	29	140	120	97	5"ø	4"ø	6.3	8:1	4	120/1	12	25" x 41" x 41"	RBI #TORUS 300	ALL

NOTES:

1. CONTROLS - PROVIDE BACNET CONNECTION TO LEAD BOILER CONTROLLER.
2. INSTALLATION - REFER TO DETAILS FOR INSTALLATION DIRECTIONS.

HYDRONIC PUMPS SCHEDULE 2123

BASIS OF DESIGN - BELL & GOSSETT (B&G)
EQUAL BY: ARMSTRONG, PATTERSON, PENTAIR, GRUNDFOS

TAG	SERVICE	DESCRIPTION	MFR/MODEL	EFFICIENCY	CAPACITY		MOTOR				NOTES
					GPM	FT HD	RPM	HP	BHP	V/PH	
HWP-1	PRIMARY	INLINE CENTRIFUGAL	B&G #e-80-1.5x1.5x7C	61.9%	29	15	1200	0.75	0.21	120/1	2
HWP-2	PRIMARY	INLINE CENTRIFUGAL	B&G #e-80-1.5x1.5x7C	61.9%	29	15	1200	0.75	0.21	120/1	2
HWP-3	SECONDARY	BASE-MOUNTED CENTRIFUGAL	B&G #e-1510-1.25AD-es	57%	30	40	1800	1	0.5	208/3	1,2
HWP-4	SECONDARY	BASE-MOUNTED CENTRIFUGAL	B&G #e-1510-1.25AD-es	57%	30	40	1800	1	0.5	208/3	1,2
HWP-5	AHU COIL PUMP	INLINE CENTRIFUGAL	B&G #ecocirc-XL-20-35	--	7	8	--	1/12	1.3 A	120/1	2,3

NOTES:

1. VFD FURNISHED BY H.C., INSTALLED BY E.C.
2. MOUNTING - SEE PUMP MOUNTING DETAILS.
3. DISCONNECT SWITCH BY E.C. WIRE TO OPERATE WHEN FREEZESTAT ON AHU TRIPS.

VARIABLE FREQUENCY DRIVES - HWP

GENERAL NOTES

ALL VFD'S SHALL BE FROM SAME MANUFACTURER
ALL VFD'S SHALL HAVE A BACNET COMMUNICATION CARD
VFD'S FULL LOAD AMPS SHALL BE EQUAL TO OR GREATER THAN THE SUM OF THE INDIVIDUAL MOTOR FULL LOAD AMPS

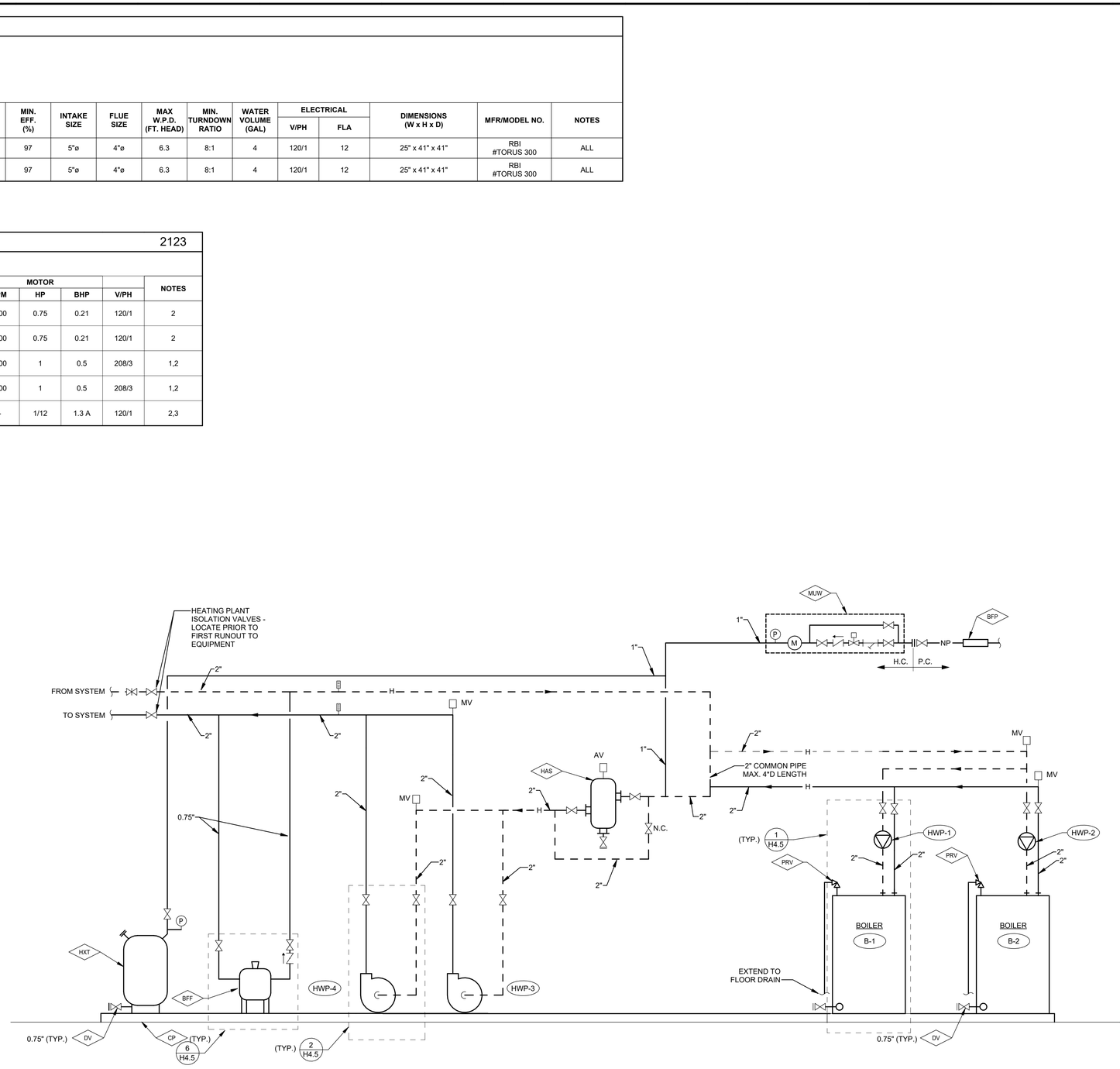
TAG	SERVICE	ENCLOSURE	HP	V/PH	NOTES
HWP-3	SECONDARY HEATING HOT WATER PUMP	NEMA 1	1	208/3	ALL
HWP-4	SECONDARY HEATING HOT WATER PUMP	NEMA 1	1	208/3	ALL

NOTES:

1. PAD LOCKABLE INPUT DISCONNECT SWITCH.
2. PROVIDE VFD WITH BACNET COMMUNICATIONS CARD.

EQUIPMENT NOTES

BFF	BYPASS FILTER FEEDER - 5 GALLON CAPACITY WITH 5 MICRON PLEATED FILTER THREADED CAP
BFP	BACKFLOW PREVENTER BY P.C.
CP	CONCRETE EQUIPMENT PAD 4" THICKNESS, SEE DETAIL
DV	DRAIN VALVE WITH THREADED REMOVABLE CAP, SIZE PER PLAN - ROUTE TO LOCAL DRAIN.
HAS	HOT WATER AIR/DIRT SEPARATOR - COALESCING TYPE 2" SIZE, WPD AT 3 FT. HD MAX. SPIROTHERM #VDT OR EQUAL DRAIN VALVE
HXT	HOT WATER EXPANSION TANK WESSELS #NLA-50 OR EQUAL FULL ACCEPTANCE VERTICAL BLADDER TYPE REQUIRED TANK VOLUME - 8.3 GAL REQUIRED ACCEPTANCE - 8.3 GAL ACTUAL TANK VOLUME - 13 GAL ACTUAL FULL ACCEPTANCE VOLUME - 13 GAL FILL/ MAX TEMP - 40/140 DEG. F FILL/MAX PRESSURE - 18/30 PSI
MUW	MAKEUP WATER ASSEMBLY 0.75" AUTO. PRESSURE REDUCING VALVE EQUAL TO B&G B 7-12, SET AT 20 PSI PROVIDE N.C. VALVED 1" BYPASS FOR SYSTEM FILL. MECHANICAL TOTALIZING WATER METER.
SRV	BOILER SAFETY PRESSURE RELIEF VALVE SET AT 50 PSIG
WM	WATER METER - MECHANICAL TYPE



HOT WATER HEATING SYSTEM PIPING DIAGRAM

N.T.S

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

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	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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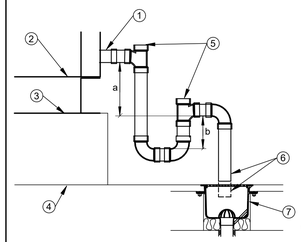
TITLE
HEATING HOT WATER SYSTEM SCHEDULES & DETAILS

SHEET NO.
H0.3

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

10/27/2025 11:33:17 AM

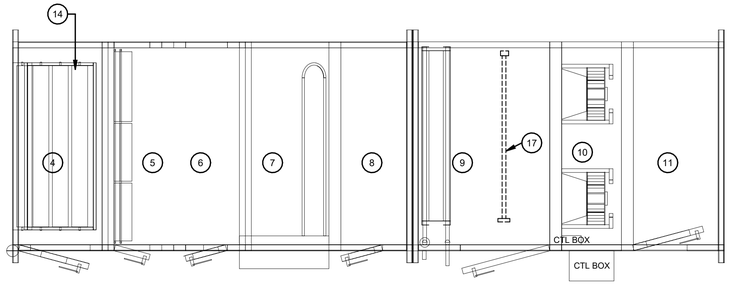


CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2

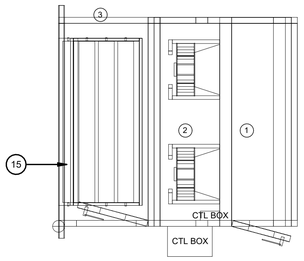
-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

1. CONDENSATE DRAIN PIPE. PIPE SIZED TO MATCH CONDENSATE CONNECTION SIZE ON AHU. PIPING MATERIAL PER PIPING MATERIAL SCHEDULE.
2. A.H. UNIT FLOOR.
3. A.H. UNIT BASE.
4. 4" CONCRETE EQUIPMENT PAD.
5. DWV TEE WITH CLEANOUT AND CAP.
6. COORDINATE TERMINATION WITH FLOOR DRAIN. TERMINATE IN DRAIN IF GRATE HAS OPENING. IF NO OPENING, TERMINATE SUCH THAT WATER DOES NOT SPLASH ONTO ADJACENT MECHANICAL ROOM FLOOR.
7. FLOOR DRAIN BY P.C.

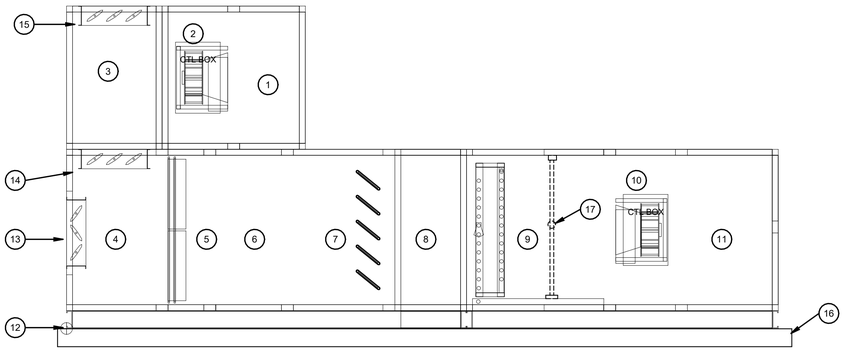
1 AH UNIT CONDENSATE TRAP — DRAW THROUGH
N.T.S.



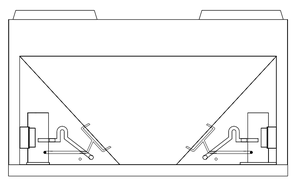
PLAN VIEW - BOTTOM DECK
SCALE: NTS



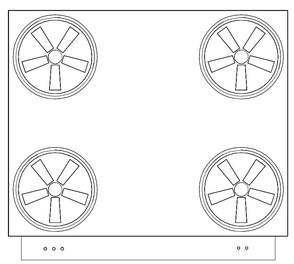
PLAN VIEW - TOP DECK
SCALE: NTS



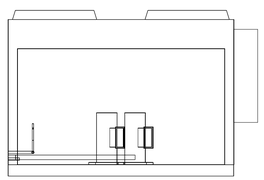
ELEVATION - LEFT SIDE
SCALE: NTS



ELEVATION - FRONT
SCALE: NTS



PLAN VIEW - TOP
SCALE: NTS



ELEVATION - SIDE
SCALE: NTS

GENERAL AHU NOTES

1. THE AIR HANDLING UNIT AND ASSOCIATED CONDENSING UNIT SHOWN ON THIS SHEET, ARE TO BE PRE-PURCHASED BY THE PROJECT CONSTRUCTION MANAGER.
2. THE H.C. SHALL COORDINATE WITH THE CONSTRUCTION MANAGER TO RECEIVE SHIPMENT OF THE AHU AND CONDENSING UNIT AT THE PROJECT SITE AND INSTALL THE NEW AIR HANDLING UNIT.
3. THE H.C. SHALL PROVIDE ALL ADDITIONAL REFRIGERANT PIPING, COMPONENTS (I.E. EXPANSION VALVES, ETC.) AND CHARGE REQUIRED. TO FILL PIPING SYSTEM. COORDINATE REQUIRED REFRIGERANT LINE SIZES WITH UNIT MANUFACTURER.

(#) AHU DETAIL NOTES

1. RETURN AIR PLENUM SECTION - 22"X24" ACCESS DOOR, REAR OPENING AND LIGHT.
2. ECM RETURN FAN ARRAY SECTION AND CONTROLLER.
3. ECONOMIZER SECTION - RETURN/EXHAUST. ACCESS DOOR AND LIGHT.
4. ECONOMIZER MIXING SECTION - RETURN/OUTDOOR AIR. ACCESS DOOR AND LIGHT.
5. COMBINATION PANEL AND BAG FILTER SECTION - 2" MERV 9, 4" MERV 13. ACCESS DOOR.
6. ACCESS SECTION - 20"X44" DOOR AND LIGHT.
7. HOT WATER COIL W/ PUMP - SEE COIL DETAIL, THIS SHEET.
8. ACCESS SECTION - 22"X44" ACCESS DOOR.
9. DX COOLING COIL - 24"X34" ACCESS DOOR AND LIGHT. S.S. SLOPED DRAIN PAN.
10. ECM SUPPLY FAN ARRAY SECTION AND CONTROLLER.
11. SUPPLY AIR PLENUM - 22"X40" ACCESS DOOR, TOP OPENING, LIGHT.
12. 6" HIGH BASE RAIL.
13. OUTDOOR AIR DAMPER.
14. RETURN AIR DAMPER.
15. RELIEF AIR DAMPER.
16. CONCRETE EQUIPMENT PAD. REFER TO DETAIL.
17. ULTRAVIOLET LIGHT AND FRAME EQUAL TO STERIL-AIRE #RLM. E.C. TO PROVIDE 120V POWER FEED TO CONTROLLER. TOGGLE SWITCH ON CONTROLLER FACE. 185 WATTS, 1 ROW 42" LAMP. APD - 0.1 " W.C. MOUNT CONTROL PANEL WITH WATERPROOF TOGGLE SWITCH ON FACE OF CONTROLLER TO AIR HANDLING UNIT.

CONDENSING UNIT SCHEDULE

UNIT	CU-1
UNIT LOCATION	ON GRADE
DESCRIPTION	AIR-COOLED CONDENSING UNIT
MANUFACTURER/MODEL	DAIKIN #DCSA030
LENGTH / WIDTH / HEIGHT	76" x 97" x 83"
UNIT WEIGHT (LBS)	2,621
CONDENSING SECTION	
COOLING CAPACITY (MBH)	330
REFRIGERANT TYPE	R32
NO. OF CIRCUITS	2
SUCTION LINE SIZE	(2) 1.62"
LIQUID LINE SIZE	(2) 0.88"
TOTAL REFRIGERANT CHARGE [LBS]	17.6 + 19.2
ELECTRICAL	
EER	12.0
IEER	17.9
MCA/MOCP	143/175
VOLTAGE / PHASE	208/3

NOTES:
1. REFER TO SPECIFICATIONS FOR OPTIONS AND ACCESSORIES.
2. MOUNTING - 6" EXT. CONCRETE PAD WITH VIBRATION ISOLATOR PADS.

AIR HANDLING UNIT SCHEDULE

UNIT	AHU-1
AREA SERVED	OFFICES
UNIT LOCATION	MECH RM
DESCRIPTION	CENTRAL STATION INDOOR AIR HANDLING...
MANUFACTURER/SIZE	DAIKIN #CAH018GDCM
DIMENSIONS (LxWxH)	198" x 88" x 86"
SUPPLY FANS - ECM FAN ARRAY - QTY. 2	
FAN TYPE	DIRECT DRIVE PLENUM AIRFOIL
TOTAL AIR FLOW	8,000
FAN SPEED (RPM)	2,258
EXTERNAL S.P. (INCHES W.G.)	2.0
FAN SIZE (EACH)	17.71"
ELECTRICAL - V/PH	208/3
SUPPLY FAN CIRCUIT - MCA/MOCP	37.4/50
MOTOR H.P. (EACH)	(2x) 6.7
MOTOR B.H.P.	(2x) 3.90
FAN ENERGY INDEX (FEI)	1.38
VARIABLE FREQUENCY DRIVE/ECM	ECM
FILTER	
PRE-FILTER TYPE	2" MERV 9
FINAL FILTER TYPE	4" MERV 13
HEATING COIL - HOT WATER COIL - 1 COIL, 1 ROW	
HEATING AIR FLOW (CFM)	6,000
CAPACITY (MBH)	72
ATR (DEG. F)	12
ENT. AIR TEMP (DB)	58
LVG. AIR TEMP (DB)	70
MAX. AP DROP (INCHES W.G.)	0.04
FLOW RATE (GPM)	7.2
COIL WPD (FT. HD)	5
WTD (DEG. F)	20
DX REFRIGERANT COIL- 1 COIL, 5 ROWS	
REFRIGERANT TYPE	R32
COOLING AIR FLOW (CFM)	8,000
MIN. FACE AREA (SQ. FT)	16.87
FACE VELOCITY (FPM)	474
TOTAL CAPACITY (MBH)	330
SENS. CAPACITY (MBH)	218
ENT. AIR TEMP (DB/WB)	80/67
LVG. AIR TEMP (DB/WB)	53.6/52.8
MAX. AP DROP (INCHES W.G.)	0.71
RETURN FAN - ECM FAN ARRAY - QTY. 2	
FAN TYPE	DIRECT DRIVE PLENUM AIRFOIL
TOTAL AIR FLOW	7,500
FAN SPEED (RPM)	2,838
TOTAL S.P. (INCHES W.G.)	0.75"
FAN SIZE (EACH)	17.71"
ELECTRICAL - V/PH	208/3
RETURN FAN CIRCUIT MCA/MOCP	12.8/15.0
MOTOR H.P.	(2x) 2.1
MOTOR B.H.P.	(2x) 0.96
FAN ENERGY INDEX (FEI)	0.73
VARIABLE FREQUENCY DRIVE/ECM	ECM
VENTILATION REQUIREMENTS	
MIN. OUTSIDE AIR (CFM)	955

NOTES:
1. MOUNTING - 4" CONCRETE EQUIPMENT PAD - REFER TO DETAIL.
2. PROVIDE UV LIGHT IN COOLING COIL SECTION.

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JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

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City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

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TITLE
AIR HANDLING UNIT SECTIONS & DETAILS

SHEET NO.
H0.4

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

10/27/2025 11:33:27 AM

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.

REFER TO INSTALLATION DETAILS.

TAG	SERVICE	AREA	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL		ELECTRIC			DRIVE TYPE		MOUNTING					APPLICATION				ACCESSORIES & OPTIONS								CONTROLS						
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR HP	V/PH	DISCONNECT WITH FAN	DISCONNECT BY E.C.	VFD	ECM	DIRECT	BELT	ROOF CURB	BASE/FLOOR	SUSPENDED, INLINE	WALL	CEILING	UL 705 GREASE RATED	UL 864 SMOKE CONTROL	HIGH TEMP (ABOVE 200 °F)	EXPLOSION PROOF	VIBRATION ISOLATION	INSULATION HOUSING	THERMAL CONTROL	SLOPING ROOF CURB	HINGED ROOF CURB	CURB EXTENSION	POWDER COAT FINISH	EPOXY INTERIOR FINISH	DDC CONNECTION	MANUALON/OFF SWITCH	DIAL SPEED CONTROLLER	HOA CONTROLLER	MOTORIZED DAMPER	GRAVITY DAMPER	NOTES
EF-1	EXHAUST	1ST FLR. GEN.	DIRECT DRIVE INLINE CENTRIFUGAL	#SQ-90-VG	--	275	0.5	1/6	120/1	●			●	●				●															●		●	●	●		
EF-2	EXHAUST	1ST FLR ELEV.	DIRECT DRIVE INLINE CENTRIFUGAL	#SQ-80-VG	--	200	0.5	1/6	120/1	●			●	●				●															●		●	●	●		
EF-3	EXHAUST	2ND FLR. GEN.	DIRECT DRIVE INLINE CENTRIFUGAL	#SQ-80-VG	--	200	0.5	1/6	120/1	●			●	●				●															●		●	●	●		
RV-1	AHU VENT/RELIEF	MECH.	ROOF MOUNTED FABRAHOOD	#FGR-36x40	36 x 40	7,500	0.1	-	-							●																						●	

NOTES:

1. DIAL SPEED CONTROLLER MOUNTED REMOTE ON WALL. REFER TO HVAC LPANS FOR LOCATION.
2. DIAL SPEED CONTROLLER MOUNTED ON FAN FOR BALANCING.
3. MOTORIZED DAMPER PROVIDED AND INSTALLED BY H.C., E.C. TO PROVIDE POWER TO DAMPER ACTUATOR.
4. MANUAL ON/OFF SWITCH MOUNTED REMOTE. REFER TO ELECTRICAL PLAN FR LOCATION.

AIR TERMINAL UNITS SCHEDULE - HOT WATER

GENERAL NOTES

UNITS ARE VARIABLE AIR VOLUME, HOT WATER REHEAT.

CV - CONSTANT VOLUME
VV - VARIABLE VOLUME

UNITS HAVE DUAL MINIMUM AIR FLOW DEPENDING ON HOT WATER HEATING AVAILABILITY.

DESIGN BASIS- PRICE MODLE SDV

UNITS INCLUDE FIELD CONFIG. 2- OR 3-WAY CONTROL VALVES.

ENTERING WATER TEMP. (DEG. F) 140
WATER TEMP. DROP (DEG.F) 20
MAX WATER PRESSURE DROP. 5' FT. HD.

ENTERING AIR TEMP. (DEG. F) 55
MAX AIR PRES. DROP INCL. HW COIL. 0.6" S.P.

MAX. NC 25, WITH 10db ROOM ABSORBTION AT 1.5" SP AND MAX AIR FLOW.

UNIT. NO.	INLET SIZE	TYPE	COOLING MAX. (CFM)	COOLING MIN. (CFM)	HEATING (CFM)	CAPACITY (MBH)	WATER FLOW (GPM)	LAT	S&R PIPING	VALVE CV	SEE NOTES
1-101	5	VV	250	50	190	10.8	1.1	95	0.5		
1-102	5	VV	155	30	120	5.2	0.5	95	0.5		
1-103	5	VV	200	40	150	5.7	0.6	90	0.5		
1-104	6	VV	380	80	285	12.3	1.2	95	0.5		
1-105	5	VV	300	60	-	-	-	55	-		
1-106	5	VV	210	45	160	6.9	0.7	95	0.5		
1-107	5	VV	255	55	190	7.2	0.7	90	0.5		
1-108	6	VV	310	65	235	10.2	1.0	95	0.5		
1-109	5	VV	300	60	225	9.7	1.0	95	0.5		
1-110	5	VV	195	40	150	5.7	0.6	90	0.5		
1-111	5	VV	225	45	170	6.4	0.6	90	0.5		
1-112	5	VV	245	50	185	7.0	0.7	90	0.5		
1-113	5	VV	280	60	210	7.9	0.8	90	0.5		
1-114	5	VV	260	55	195	8.4	0.8	95	0.5		
1-115	7	VV	520	105	390	16.8	1.7	95	0.75		
1-116	5	VV	270	55	200	8.6	0.9	95	0.5		
1-117	5	VV	250	50	190	8.2	0.8	95	0.5		
1-118	5	VV	170	35	-	-	-	55	-	-	
1-119	5	VV	245	50	185	7.0	0.7	90	0.5		
1-120	5	VV	250	50	190	8.2	0.8	95	0.5		
1-121	5	VV	325	65	245	10.6	1.0	95	0.5		1
1-122	7	VV	210	45	160	6.9	0.7	90	0.5		1
1-123	5	VV	155	30	115	4.3	0.4	90	0.5		
1-201	5	VV	160	35	120	5.2	0.5	95	0.5		
1-202	7	VV	470	95	350	13.2	1.3	90	0.5		
1-203	6	VV	385	80	290	11.6	1.2	95	0.5		
1-204	6	VV	355	70	270	11.7	1.2	95	0.5		
1-205	7	VV	450	90	225	8.5	0.9	90	0.5		1
1-206	6	VV	160	35	120	5.2	0.5	95	0.5		
1-207	6	VV	320	65	240	10.4	1.0	95	0.5		
1-208	5	VV	230	50	175	7.6	0.8	95	0.5		1
1-209	5	VV	155	35	120	5.2	0.5	95	0.5		
1-210	5	VV	250	50	125	5.4	0.6	95	0.5		

NOTES:

1. PROVIDE UNIT WITH 3-WAY CONTROL VALVE.

HYDRONIC UNIT HEATER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: RITTLING

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	MOUNTING	INPUT (MBH)	WTD (DEG. F)	AIR FLOW (CFM)	FLUID FLOW (GPM)	DIMENSIONS			ELECTRICAL		NOTES
								L (IN.)	D (IN.)	H (IN.)	AMPS	V/PH	
CUH-1	CABINET UNIT HEATER	RITTLING #RFFI-240-04	SURFACE FLOOR MOUNTED TOP INLET, BOTTOM FRONT OUTLET	31	20	420	3.1	41	9.5	26	1	120/1	ALL
UH-1	PROPELLER UNIT HEATER	RITTLING #RH-47	HORIZONTAL AIRFLOW	34	20	730	3.4	20	19	12	2	120/1	ALL

NOTES:
1. MOUNTING - REFER TO MOUNTING DETAIL.
2. CONTROLS - PROVIDE DDC LOW VOLTAGE WALL THERMOSTAT. REFER TO CONTROLS SHEETS.
2. ELECTRICAL - EQUIPMENT SUPPLIER TO PROVIDE DISCONNECT WITH UNIT.

AIR DEVICE SCHEDULE

GENERAL NOTES

AIR DEVICES BASED ON PRICE.
EQUAL BY TITUS, TUTTLE & BAILEY

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	
S2	12"X12"SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	1
S3	LOUVERED SUPPLY GRILLE DOUBLE DEFLECTION W/ LONG FRONT BLADES 3/4" BLADE SPACING	520	STEEL		2
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY	
R3	LOUVERED FACE SIDE WALL RETURN GRILLE DEVICE SIZE - INDICATED ON PLAN MOUNTING HEIGHT - INDICATED ON PLAN 45° HORIZONTAL BLADES 1/2" SPACING HORIZONTAL BLADES	635	ALUMINUM		2
E1	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1

NOTES:

1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.
2. COLOR SELECTION BY ARCHITECT.

LOUVER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: GREENHECK
EQUAL BY: POTTORFF, RUSKIN, AIROLITE

MAXIMUM 500 FPM ON INTAKE LOUVERS, MAXIMUM 1000 FPM ON EXHAUST LOUVERS.
MINIMUM 50% FREE AREA

PRIME COAT PAINT COLOR. FINAL COLOR SELECTION BY ARCHITECT, PAINTED BY G.C.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
L1	FIXED BLADE DRAINABLE LOUVER DEVICE SIZE - AS NOTED ON PLAN FRAME SIZE - 2" FRAME	ESD-202	ALUMINUM	BLACK BIRDSCREEN	1
L2	FIXED BLADE DRAINABLE LOUVER DEVICE SIZE - AS NOTED ON FLOOR PLAN FRAME SIZE - 6" FRAME	ESD-635	ALUMINUM	BLACK BIRDSCREEN	1

NOTES:

1. COLOR SELECTION BY ARCHITECT.

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TITLE
EQUIPMENT SCHEDULES

SHEET NO.
H0.5

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204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 203-3821

PROJECT # 25029

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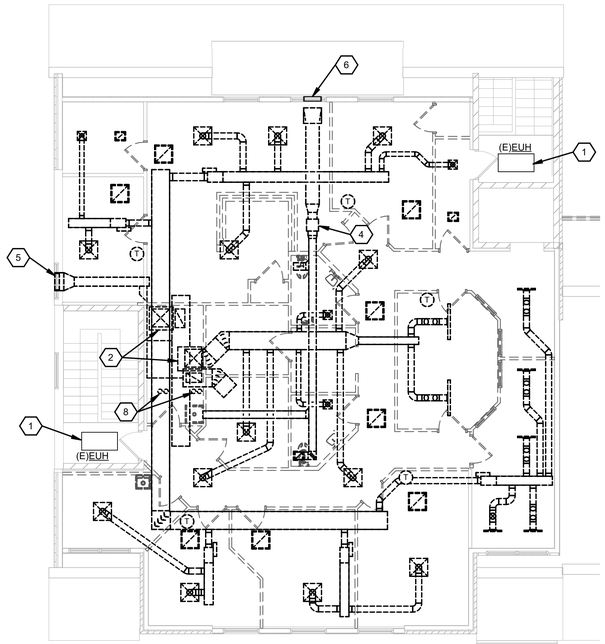
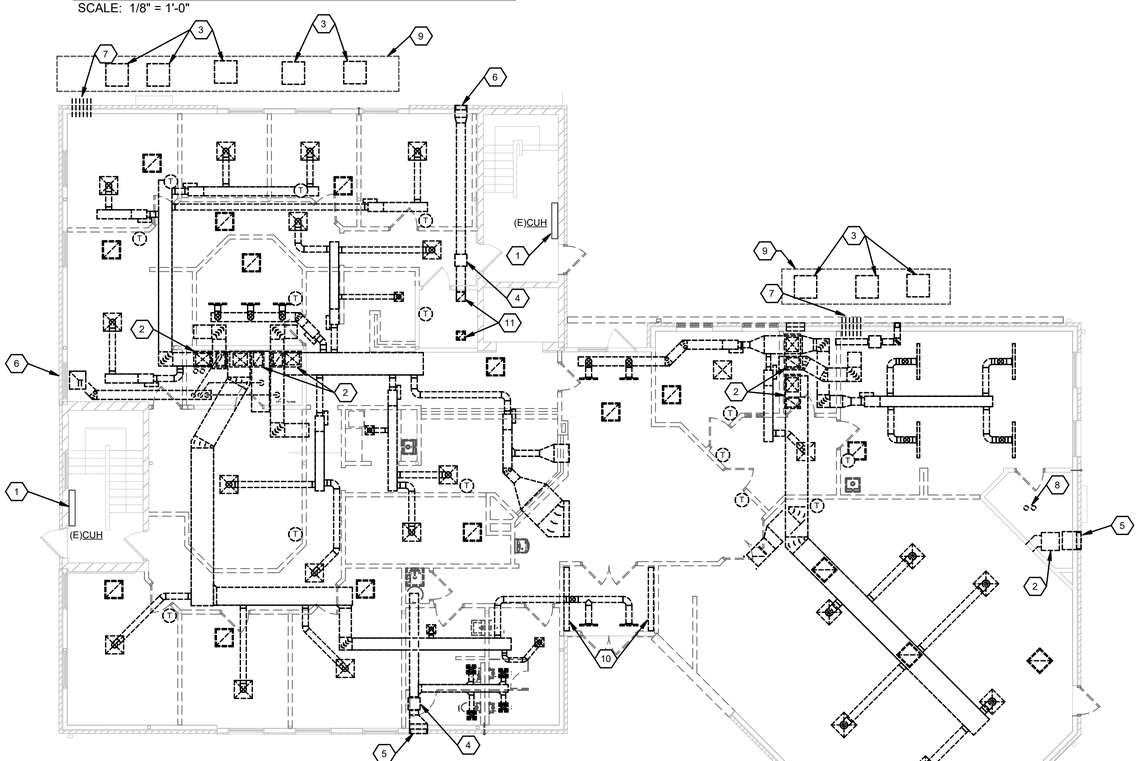


SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REMOVE ALL DUCTWORK, AIR DEVICES, PIPING, CONTROL DEVICES, WIRING AND EQUIPMENT AS NOTED. REFER TO ARCHITECTURAL PHASING PLAN.

CONSTRUCTION NOTES

1. UNIT HEATER TO REMAIN.
2. REMOVE GAS FIRED FURNACE/AC UNIT AND ALL ASSOCIATED COMBUSTION AIR AND FLUE PIPING, DUCTWORK, CONTROLS, AIR DEVICES, HUMIDIFIER, ETC. COORDINATE REMOVALS W/P.C. AND E.C. FOR THEIR RESPECTIVE SERVICES. REMOVE CONCRETE EQUIPMENT PAD.
3. REMOVE OUTDOOR CONDENSING UNIT AND ASSOCIATED ELECTRICAL. COORDINATE.
4. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, CONTROLS, AIR DEVICES AND ELECTRICAL. COORDINATE REMOVAL W/E.C. AND G.C. FOR PHASING.
5. EXISTING LOUVER TO BE ABANDONED IN PLACE. PROVIDE INSULATED BLANK-OFF SHEETMETAL PANEL AT INTERIOR FACE OF LOUVER AND PAINT EXTERIOR VISIBLE PORTION BLACK. SEAL PERIMETER W/CAULK WEATHERTIGHT.
6. EXISTING LOUVER TO BE REMOVED. LOUVER OPENING TO REMAIN. REFER TO NEW WORK PLAN FOR RECONNECTION.
7. REMOVE SIDEWALL COMBUSTION AIR & FLUE PIPING THROUGH FASCIA. G.C. TO PATCH & PAINT AS REQUIRED TO MATCH EXISTING.
8. REMOVE COMBUSTION AIR & FLUE PIPING THROUGH ROOF. G.C. TO PATCH ROOF SHINGLES CONSISTENT W/EXISTING FROM SALVAGED SHINGLES.
9. REMOVE EXISTING EXTERIOR CONCRETE EQUIPMENT PAD.
10. REMOVE ELECTRIC PEDESTAL CONVECTORS AND ALL WIRING AND CONTROLS.
11. EXISTING AIR DEVICE AND FIRE DAMPER TO REMAIN IN ELEVATOR EQUIPMENT ROOM CEILING.

SCALE: 1/8"=1'-0"

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EXPIRATION DATE 12/31/2025

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TITLE
FIRST & SECOND FLOOR DEMOLITION PLANS

SHEET NO.
H1.1

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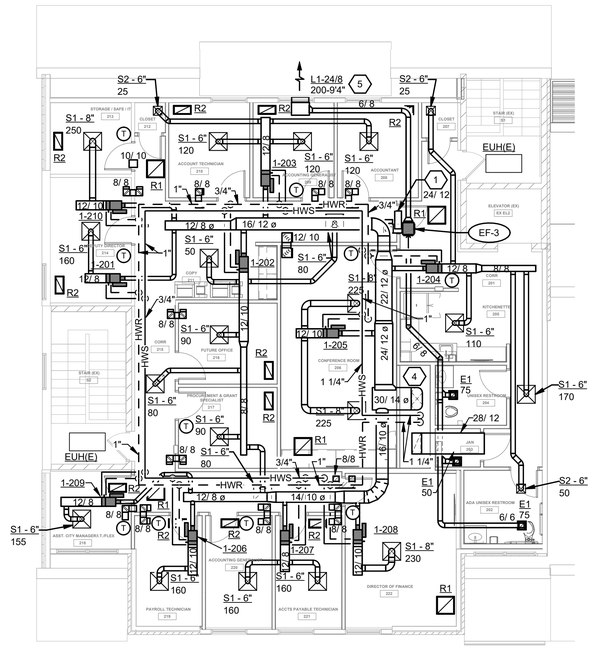

SECOND FLOOR NEW WORK PLAN

SCALE: 1/8" = 1'-0"

FIRST FLOOR NEW WORK PLAN

SCALE: 1/8"=1'-0"

CONSTRUCTION NOTES

1. ABOVE CEILING RETURN OPENING, SIZE AS INDICATED ON PLAN.
2. DUCT STATIC PRESSURE SENSOR.
3. HOT WATER DIFFERENTIAL PRESSURE SENSOR.
4. TRANSITION OVAL SUPPLY DUCT TO 30/14 RECTANGULAR DUCT AT FLOOR PENETRATION AND BACK TO OVAL SHAPE JUST ABOVE 2ND FLOOR.
5. INSTALL NEW LOUVER IN EXISTING PENETRATION LOCATION. SEAL WEATHERTIGHT AROUND PERIMETER.
6. FIRE SEAL DUCT AND PIPE PENETRATIONS TO SECOND FLOOR ABOVE WITH APPROVED FIRESTOPPING SYSTEM.

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TITLE
FIRST & SECOND FLOOR NEW WORK PLANS

SHEET NO.
H2.1

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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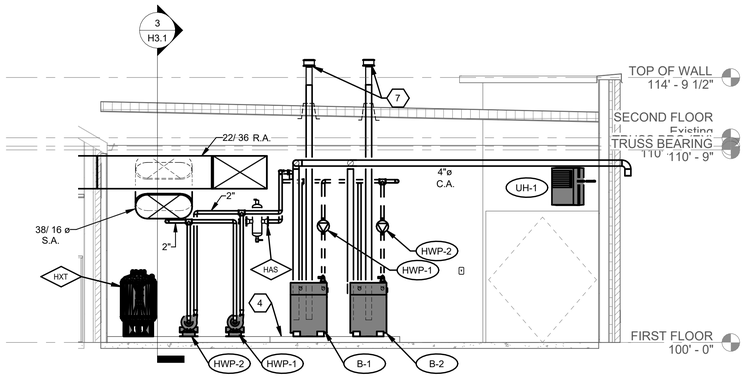
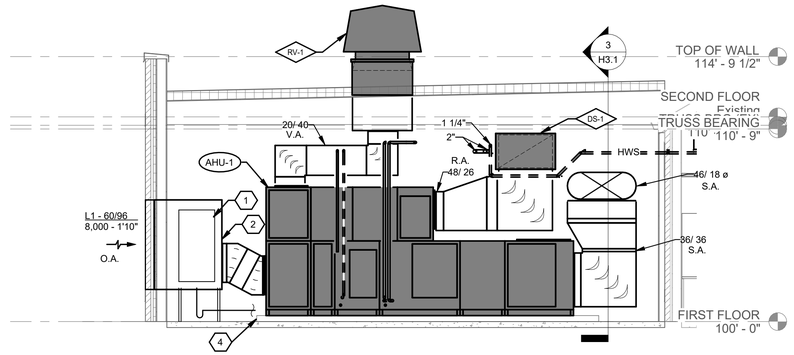
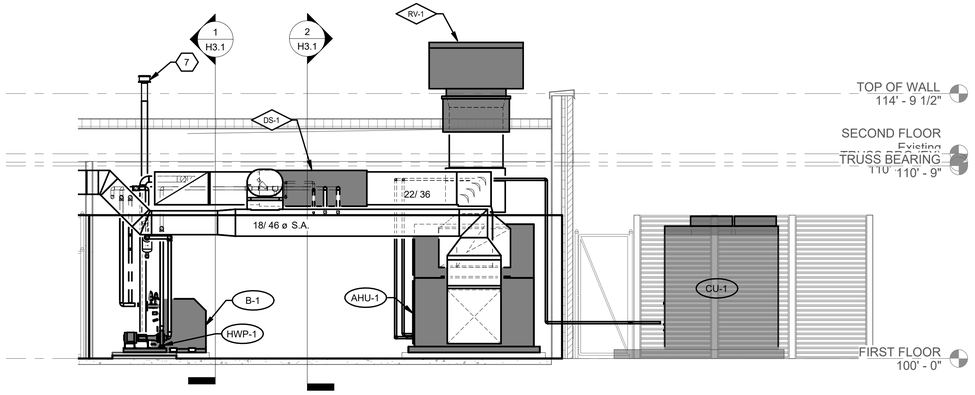


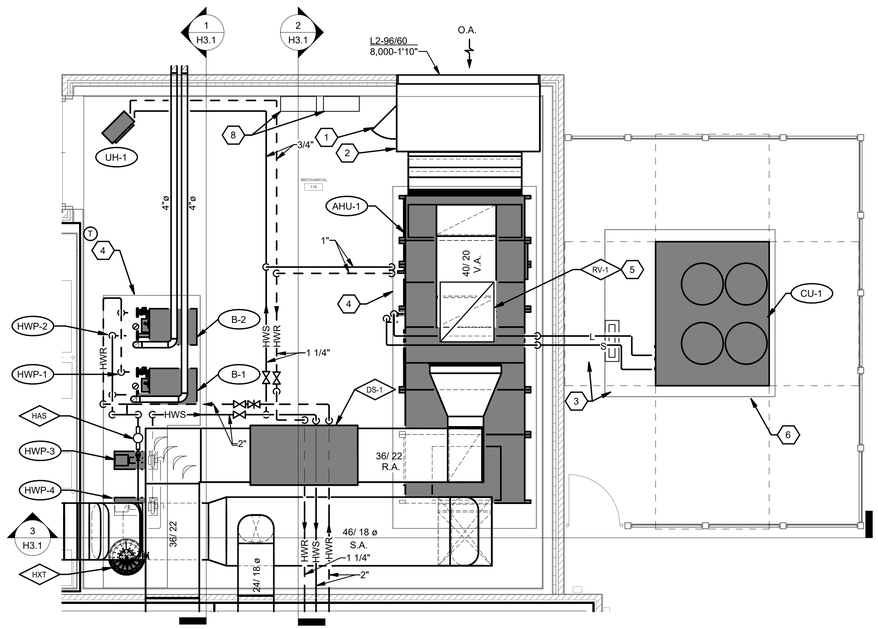
1 SECTION 1
SCALE: 1/4" = 1'-0"



2 SECTION 2
SCALE: 1/4" = 1'-0"



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



FIRST FLOOR MECHANICAL ROOM & YARD PLAN
SCALE: 1/4" = 1'-0"

0 2 4 8 12 16 20
SCALE: 1/4"=1'-0"

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CONSTRUCTION NOTES

1. PLENUM ACCESS DOOR. REFER TO SPECIFICATION FOR TYPE.
2. OUTDOOR AIR PLENUM. PROVIDE ANGLE/CHANNEL STRUCTURAL FRAMING SUPPORTS FOR PLENUM. PROVIDE W/ WELDED STAINLESS STEEL BOTTOM AND SLOPED TO 1" THREADED DRAIN CONNECTION. PIPE TO LOCAL FLOOR DRAIN. INSULATE WITH FIBERGLASS BOARD INSULATION PER SCHEDULE.
3. EXTERIOR PIPING STAND. PROVIDE EXTERIOR CONCRETE PAD BELOW.
4. 4" CONCRETE EQUIPMENT PAD. REFER TO DETAIL.
5. COORDINATE ROOF OPENING FRAMING WITH G.C.
6. EXTERIOR CONCRETE PAD. REFER TO DETAIL.
7. STAINLESS STEEL 4"Φ DOUBLE WALL FLUE AND WEATHER CAP. REFER TO DETAIL.
8. DDC TEMPERATURE CONTROL PANEL LOCATION.

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TITLE
MECHANICAL ROOM PLAN & SECTIONS

SHEET NO.
H3.1

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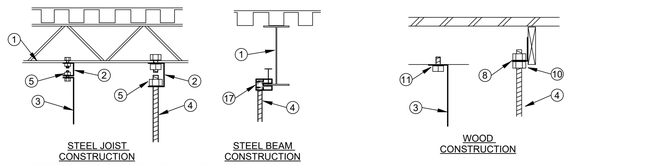
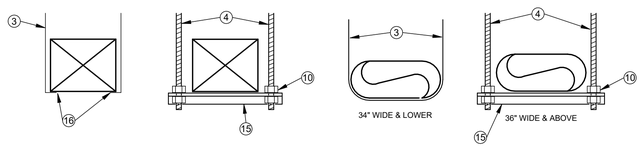
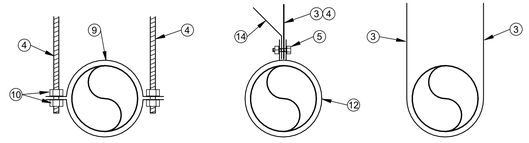


DIRECT ATTACHMENT TO STEEL DECKING NOT ALLOWED. PROVIDE SUPPLEMENTAL STEEL BETWEEN STRUCTURAL MEMBERS WHERE NEEDED.

STRUCTURAL CONNECTIONS



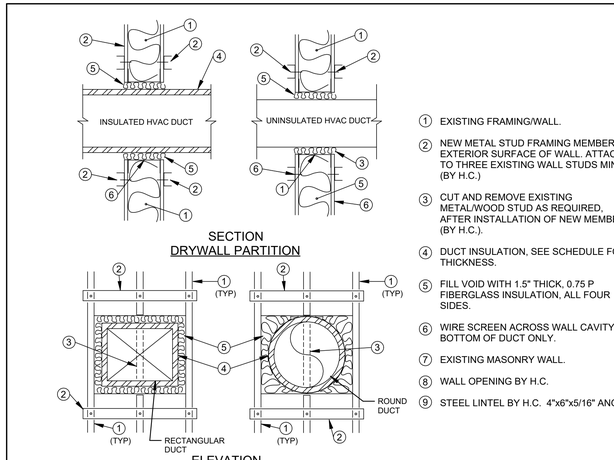


DUCT CONNECTIONS

1. STEEL JOIST OR BEAM.
2. UNISTRUT CHANNEL SPANNING TWO JOIST OR BEAMS. ATTACH TO BOTTOM CHORDS OF TWO BEAMS OR JOIST WITH "C" CLAMP.
3. GALVANIZED SHEETMETAL STRAP HANGER.
4. GALVANIZED THREADED ROD.
5. GALVANIZED BOLT & NUT.
6. NOT USED.
7. WOOD DECK & BEAM.
8. STEEL ANGLE CLIP ENGINEERED FASTENER FOR THREADED ROD INTO WOOD.
9. TWO GALVANIZED BAND HANGERS.
10. RETAINING NUTS & WASHERS.
11. ATTACH TO BOTTOM OF WOOD BEAM OR JOIST WITH LAG BOLT.
12. ONE PIECE GALVANIZED STEEL BAND HANGER.
13. NOT USED.
14. SEISMIC SWAY BRACE ATTACHED TO STRUCTURE.
15. PAINTED STEEL UNISTRUT CHANNEL.
16. GALVANIZED STEEL RESTRAINT PER SMACNA REQUIREMENTS.
17. THREADED ROD BEAM CLAMP.

NOTE:
ALL HANGERS & SUPPORT OF DUCT SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS SECOND ADDITION - 1995.

1 DUCT HANGERS & SUPPORTS — N.T.S. — **METAL STRAP & ROD HANGERS**



SECTION DRYWALL PARTITION

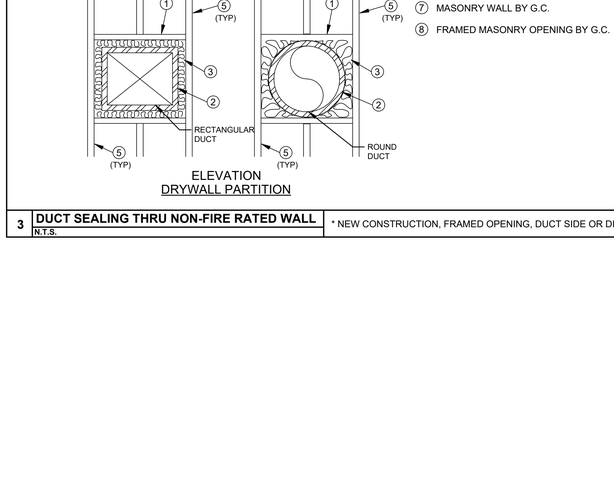
SECTION MASONRY PARTITION

ELEVATION DRYWALL PARTITION

ELEVATION MASONRY PARTITION

1. EXISTING FRAMING/WALL.
2. NEW METAL STUD FRAMING MEMBER ON EXTERIOR SURFACE OF WALL. ATTACH TO THREE EXISTING WALL STUDS MIN. (BY H.C.)
3. CUT AND REMOVE EXISTING METAL/WOOD STUD AS REQUIRED, AFTER INSTALLATION OF NEW MEMBER (BY H.C.).
4. DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
5. FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS INSULATION, ALL FOUR SIDES.
6. WIRE SCREEN ACROSS WALL CAVITY, BOTTOM OF DUCT ONLY.
7. EXISTING MASONRY WALL.
8. WALL OPENING BY H.C.
9. STEEL LINTEL BY H.C. 4"x6"x5/16" ANGLE.

2 DUCT SEALING THRU NON-FIRE RATED WALL — N.T.S. — * EXISTING CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"



SECTION DRYWALL PARTITION

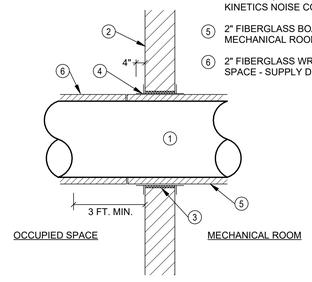
SECTION MASONRY PARTITION

ELEVATION DRYWALL PARTITION

ELEVATION MASONRY PARTITION

1. WALL OPENING WITH FRAMING BY G.C.
2. DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
3. FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS BATT INSULATION.
4. LINTEL BY G.C.
5. WOOD OR METAL STUDS AT 16" O.C. BY G.C.
6. DRYWALL BY G.C.
7. MASONRY WALL BY G.C.
8. FRAMED MASONRY OPENING BY G.C.

3 DUCT SEALING THRU NON-FIRE RATED WALL — N.T.S. — * NEW CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"



1. OVAL SUPPLY DUCT IN MECHANICAL SPACE.
2. MECHANICAL ROOM WALL - OPENINGS SIZED FOR PENETRATION ONLY.
3. OPENING FILLED WITH MEDIUM DENSITY FIBERGLASS INSULATION (6 LBS/FT3 DENSITY TYPICAL OF R-19, 6" THICK BATT), RESULTING IN A FULL SEAL AND APPROXIMATELY A 0.50" THICK PADDING AROUND DUCT WHEN COMPRESSED. DUCT SHALL NOT TOUCH WALLS WITHOUT COMPRESSED FIBERGLASS BETWEEN THE DUCT AND THE WALL.
4. BARIUM SULFATE LOADED VINYL LIMP MASS BARRIER MATERIAL, REINFORCED, 1 LB/SQ.FT. WEIGHT, STC RATING OF 26. ATTACH TO WALL AND DUCT AROUND ALL SIDES, 4" MIN. LENGTH, EACH LEG. EQUAL TO KINETICS NOISE CONTROL, INC. MODEL KNM-100B.
5. 2" FIBERGLASS BOARD DUCT INSULATION IN MECHANICAL ROOM - SUPPLY DUCTS.
6. 2" FIBERGLASS WRAP DUCT INSULATION IN OCCUPIED SPACE - SUPPLY DUCTS.

4 MECHANICAL ROOM DUCT PENETRATION — N.T.S.

WHERE DUCTS PENETRATE FIRE RATED ASSEMBLIES AND FIRE DAMPERS ARE NOT INDICATED THE PENETRATION SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRE STOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479

CONTRACTOR SHALL SUBMIT PENETRATION DETAIL FROM FIRE STOP SYSTEM MANUFACTURER.

-NEW AND EXISTING CONSTRUCTION

5 DUCT PENETRATIONS - FIRE RATED WALLS / FLOORS — N.T.S.

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TITLE
DETAILS - DUCTWORK

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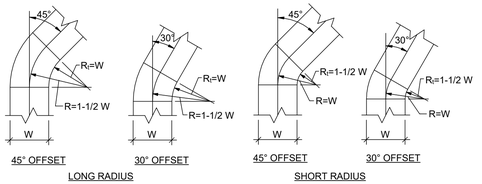
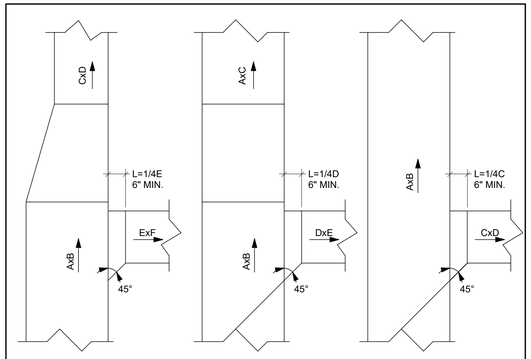


NOTES:

1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

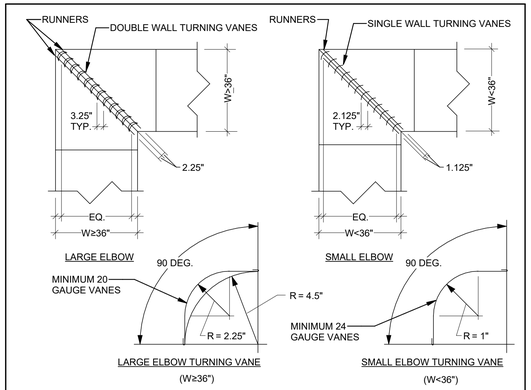
1 RECTANGULAR 45° & 30° RADIUS ELBOW
N.T.S.



NOTES:

1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM OR CONCENTRIC.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
4. TAP HEIGHT DIMENSION SHOULD BE 2" SMALLER THAN MAIN DUCT HEIGHT.

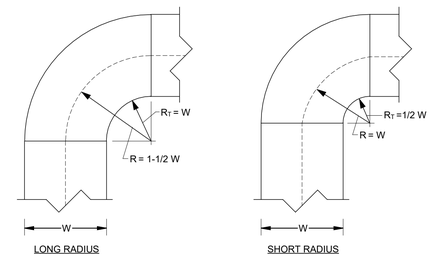
2 RECTANGULAR 90° SIDE TAP
N.T.S.



NOTES:

1. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
2. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
3. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60".
4. VANES ARE NOT TO HAVE TRAILING EDGES.

3 RECTANGULAR 90° MITERED ELBOW
N.T.S.

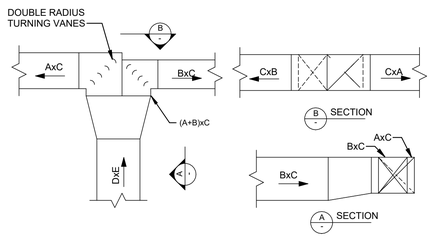


NOTES:

1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

NOTE:
ELBOWS WITH 90 DEGREE SQUARE ON INSIDE RADIUS ARE NOT ACCEPTABLE.

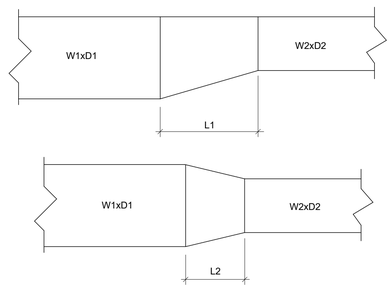
4 RECTANGULAR 90° RADIUS ELBOW
N.T.S.



NOTES:

1. DIMENSIONS A, B, C, D, AND E AS INDICATED ON DRAWINGS.
2. TRANSITIONS SHOWN CONCENTRIC IN PLAN, MAY BE FLAT ON EITHER SIDE. TRANSITION SHOWN FLAT ON TOP IN SECTION, MAY BE FLAT ON BOTTOM OR CONCENTRIC. TRANSITION DUCT AS FIELD CONDITIONS DICTATE.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.

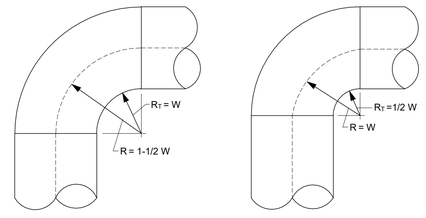
5 RECTANGULAR TEE SQUARE ELBOW
N.T.S.



NOTES:

1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
2. FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)
   L1 = 4 x (W1-W2) OR 4 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 2 x (W1-W2) OR 2 x (D1-D2) WHICHEVER IS GREATER.
3. FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)
   L1 = 7 x (W1-W2) OR 7 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 3.5 x (W1-W2) OR 3.5 x (D1-D2) WHICHEVER IS GREATER.

6 RECTANGULAR TRANSITION
N.T.S.



NOTES:

1. DIMENSION D AS SHOWN ON THE DRAWINGS.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

7 ROUND 90° RADIUS ELBOW
N.T.S.

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	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
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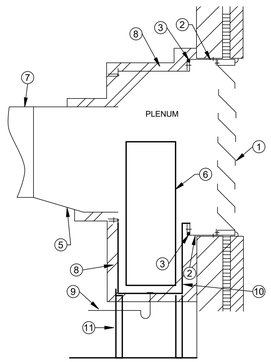
TITLE
DETAILS - DUCTWORK

SHEET NO.
H4.2

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 203-3821

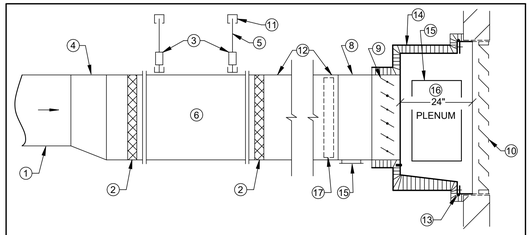
PROJECT # 25029

10/27/2025 11:34:13 AM



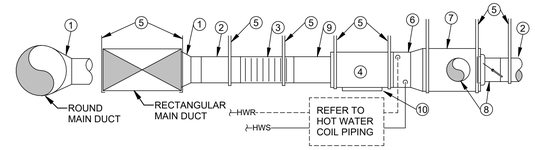
1. FRESH AIR, EXHAUST OR VENT AIR LOUVER BY G.C. SEE ARCH. DWGS.
2. SLEEVE WITH FLANGE PROVIDED BY G.C.
3. OVERLAP FLANGE CONNECTION TO WALL LOUVER FLANGE.
4. NOT USED.
5. DUCT TRANSITION.
6. ACCESS DOOR - REFER TO SPECIFICATION FOR SIZE.
7. SHEETMETAL EXHAUST, FRESH AIR OR VENT AIR DUCT.
8. INSULATE PLENUM ON EXTERIOR. INSULATE ALL OUTSIDE AIR DUCTWORK. INSULATE RETURN AND VENT DUCT BACK TO DAMPER.
9. 1.25" TRAPPED DRAIN LINE. EXTEND TO FLOOR DRAIN LOCATION WITH 1" AIR GAP.
10. BOTTOM OF PLENUM SHALL BE WELDED STAINLESS STEEL, UP TO MINIMUM 12" ABOVE BOTTOM OF PLENUM.
11. SUPPORT PLENUM FROM FLOOR USING SUPPLEMENTAL ANGLES, CHANNELS AND THREADED RODS.

1 AHU PLENUM WALL LOUVER
N.T.S.



1. EXHAUST DUCT.
2. FLEXIBLE DUCT CONNECTION
3. NEOPRENE ISOLATOR HANGERS FOR FANS UNDER 1 HP; COMBINATION SPRING/NEOPRENE FOR FANS 1 HP AND LARGER.
4. TRANSITION FROM DUCT SIZE TO FAN INLET.
5. THREADED ROD
6. EXHAUST FAN.
7. NOT USED.
8. TRANSITION TO LOUVER SIZE
9. MANUAL BACKDRAFT DAMPER.
10. LOUVER AND PLENUM CONNECTION FLANGE BY G.C.
11. SUPPLEMENTAL STEEL ANGLE OR CHANNEL. SPAN ACROSS STRUCTURAL ELEMENTS.
12. DUCT IS SAME SIZE AS FAN OUTLET.
13. PLENUM FLANGE TO CONNECT ON INTERIOR OF LOUVER FLANGE ALONG BOTTOM SEAL. SEAL ALL JOINTS, ALL FOUR SIDES.
14. INSULATE EXTERIOR OF DUCT TO PREVENT COLD DUCT SURFACES INSIDE OF BLDG.
15. ACCESS DOOR.
16. 24" PLENUM LENGTH EXCEPT WHERE NOTED OTHERWISE.
17. FILTER FRAME (SUPPLY FAN ONLY).

2 INLINE EXHAUST FAN
N.T.S.

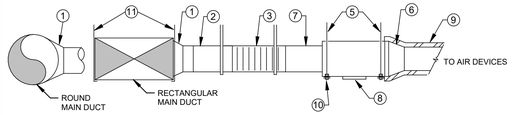


1. CONICAL TEE BRANCH FITTING.
2. ROUND SHEET METAL BRANCH DUCT. LENGTH AS REQUIRED. INSULATED.
3. INSULATED FLEXIBLE DUCT, 4' MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. DUCT SHALL BE FLEXMASTER TL-M ALUMINUM SPIRAL LINER WITH 1.5" INSULATION.
4. VAV REHEAT AIRFLOW CONTROL UNIT.
5. DUCT STRAP HANGER. ATTACH TO STRUCTURAL ELEMENTS.
6. HOT WATER REHEAT COIL. TERMINATE PIPE INSULATION AT FACE OF COIL. EXTEND DUCT INSULATION AROUND COIL PIPE INSULATION AND PROVIDE VAPOR BARRIER TAPE.
7. LOW PRESSURE RECTANGULAR SUPPLY DUCT. WHERE NOT SIZED ON THE DRAWINGS, SIZE TO MATCH COIL DIMENSIONS EXCEPT TRANSITION DUCT HEIGHT TO BE 2" HIGHER THAN LARGEST SPIN-IN BRANCH TAP FITTING.
8. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER AND INTEGRAL INSULATION GUARD SLEEVE.
9. 24" LONG SHEETMETAL AT BOX INLET - REDUCE LENGTH ONLY WHERE REQUIRED BY FIELD CONDITIONS.
10. ACCESS DOOR. LOCATE ON UNITS WITH REHEAT COILS ONLY.

NOTE:
COORDINATE WITH OTHER TRADES AND INSTALL VAV BOXES TO PROVIDE 18" SIDE AND UNOBSTRUCTED BOTTOM CLEARANCE TO CONTROLLER, ACTUATORS AND VALVES FOR MAINTENANCE. COORDINATE TO INSURE ACCESS IS PROVIDED BY SIMPLE REMOVAL OF ADJACENT UNRESTRICTED CEILING TILES (FREE OF CEILING MOUNTED DEVICES) WITHOUT NEED TO REMOVE LIGHTS OR CEILING GRID. ACCESS DOOR ON BOX IS FOR INSPECTION AND UPSTREAM COIL CLEANING. ACCESS DOOR USE IS RARE AND REMOVAL OF LIGHTS OR CEILING GRID TO GAIN ACCESS IS ACCEPTABLE.

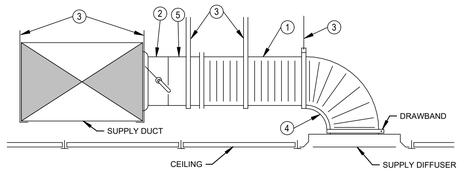
MARK DESIGNATIONS AS SHOWN ON DRAWINGS ON ALL VAV BOXES WITH 2" HIGH PAINTED STENCIL LETTERING.

3 AIR TERMINAL UNIT W/ HOT WATER REHEAT COIL
N.T.S.



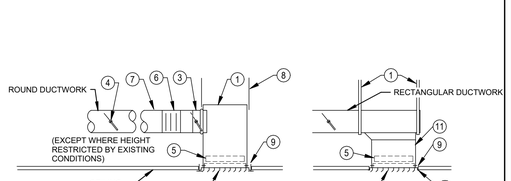
1. CONICAL TEE BRANCH FITTING.
2. ROUND SHEET METAL BRANCH DUCT. LENGTH AS REQUIRED.
3. INSULATED FLEXIBLE DUCT, 4' MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH.
4. AIRFLOW CONTROL UNIT.
5. 3/16" THREADED STEEL ROD, FOUR REQ'D. ATTACH TO STRUCTURAL ELEMENTS.
6. TRANSITION WHEN REQUIRED.
7. 24" LONG SHEETMETAL AT BOX INLET - REDUCE LENGTH ONLY WHERE REQUIRED BY FIELD CONDITIONS.
8. ACCESS PANEL.
9. FIELD APPLIED INSULATION.
10. UNISTRUT CHANNEL WITH NUTS.
11. DUCT STRAP HANGER. SEE DUCT HANGERS & SUPPORTS DETAIL.

4 AIR TERMINAL UNIT - NO REHEAT
N.T.S.



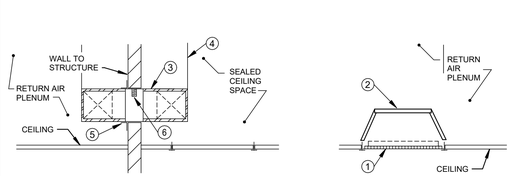
1. FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET (ABOVE ACCESSIBLE CEILING ONLY USE SHEETMETAL ONLY ABOVE INACCESSIBLE CEILING). 7 FT. MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4 FT.
2. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
3. DUCT STRAP HANGER. ATTACH TO STRUCTURE. PER SMACNA.
4. 90 DEGREE FLEXIBLE ELBOW SUPPORT BY FLEXRIGHT, FLEXFLOW OR SMARTFLOW. PROVIDE WITH DRAWBANDS, UL-2043 RATING.
5. SHEETMETAL DUCT, SAME DIAMETER AS DIFFUSER INLET. LONGITUDINAL OR SPIRAL LOCK SEAM, 0.50" S.P. CONSTRUCTION. PROVIDE EXTERIOR INSULATION, 1.5" THICKNESS, 0.75" DENSITY FIBERGLASS WITH FOIL/KRAFT PAPER JACKET.

5 CEILING DIFFUSER
N.T.S.



1. PLENUM - SIZE TO MATCH GRILLE. PAINT INTERIOR OF PLENUM FLAT BLACK.
2. EXHAUST/RETURN GRILLE FRAME TO MATCH CEILING CONDITION.
3. SPIN-IN FITTING WITH BALANCING DAMPER, USE FOR ALL ACCESSIBLE CEILINGS.
4. PROVIDE REMOTE BALANCING DAMPER IN BRANCH DUCT ABOVE ACCESSIBLE CEILING FOR EACH GRILLE WHERE GRILLE IS INSTALLED ABOVE INACCESSIBLE CEILING.
5. PROVIDE BALANCING DAMPER AT DEVICE ONLY WHERE DUCT MOUNTED DAMPER CANNOT BE PROVIDED DUE TO INACCESSIBLE CEILING.
6. FLEXIBLE DUCT ACCEPTABLE ABOVE ACCESSIBLE CEILING ONLY. MAX. 2 FT., REFER TO CEILING DIFFUSER DETAIL FOR INSTALLATION REQUIREMENTS.
7. SHEETMETAL DUCT.
8. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
9. FASTEN SHEETMETAL PLENUM OR DUCT TO AIR DEVICE, EACH SIDE.
10. DUCT STRAP HANGER.
11. VIEWABLE PORTION OF DUCT INTERIOR TO BE PAINTED FLAT BLACK.

6 EXHAUST/RETURN GRILLE - DUCTED
N.T.S.



1. RETURN GRILLE.
2. RETURN AIR CANOPY.
3. TRANSFER AIR DUCT THROUGH FULL HEIGHT WALL. PROVIDE 1/2" INTERNAL DUCT LINER. REFER TO FLOOR PLAN FOR DUCT SIZE.
4. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
5. FRAME OPENING THROUGH WALL AS REQUIRED AND SEAL WALL PENETRATION SMOKE TIGHT.
6. FIRE DAMPER WHERE INDICATED ON PLAN.

7 TRANSFER AIR GRILLE/PLENUM
N.T.S.

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JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

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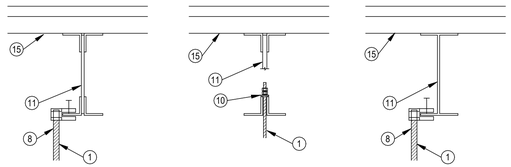
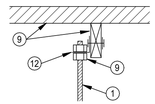


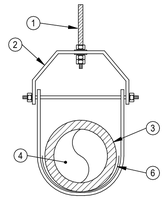
STEEL JOIST CONSTRUCTION
PIPES 2.0" & SMALLER

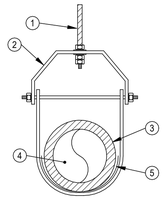
STEEL JOIST CONSTRUCTION
PIPES 2.5" & LARGER

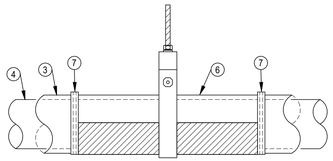
STEEL BEAM CONSTRUCTION
ALL PIPE SIZES



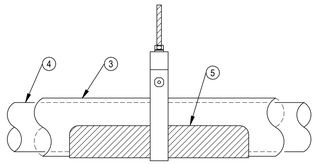
WOOD CONSTRUCTION







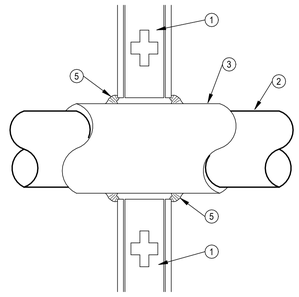
PIPING 2.5" & LARGER



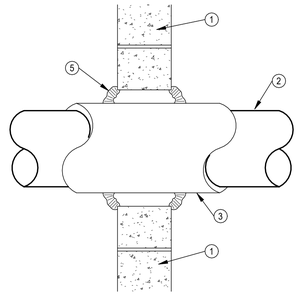
PIPING 2.0" & SMALLER

1. GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
2. STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
3. PIPE INSULATION.
4. PIPE.
5. 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
6. 18" LONG INSULATED PIPE SADDLES. PIPE SHIELDS, INC. A1000 OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PHENOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
7. PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
8. THREADED ROD BEAM CLAMP.
9. WOOD DECK & BEAM.
10. RETAINING NUTE & WASHERS.
11. STEEL JOIST OR BEAM.
12. 90 DEGREE SIDE BEAM BRACKET WITH THREADED ROD INTO WOOD.
13. NOT USED.
14. NOT USED.
15. METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.

1 PIPE HANGERS N.T.S. — CLEVIS HANGER, INSULATED PIPE



GYPSUM CONSTRUCTION
ALL PIPE SIZES



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

1. FULL HEIGHT INTERIOR WALL.
2. PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
5. CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

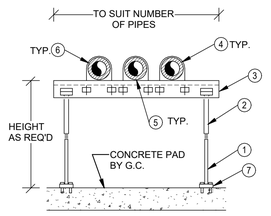
GENERAL NOTE:

A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:

- IN FLOOR SLABS ON GRADE.
- IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
- FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
- IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
- IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.

B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

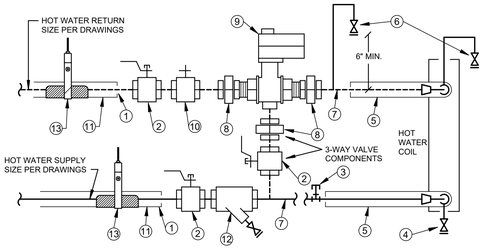
2 PIPE PENETRATIONS THRU NON-RATED WALL N.T.S.



1. BASE STAND - SECURE TO CONCRETE PAD WITH DRILLED EXPANSION INSERTS AND S.S. BOLTS.
2. PIPE EXTENSION AS REQUIRED.
3. PLASTIC COATED, SLOTTED STEEL CHANNEL.
4. INSULATED PIPE WITH ALUMINUM JACKET.
5. CALCIUM SILICATE HIGH DENSITY INSULATION AT SUPPORT AROUND PERIFERY OF PIPE.
6. PLASTIC COATED GALV. PIPE STRAP WITH S.S. HARDWARE.
7. 1/4" THICK STEEL BASE PLATE.

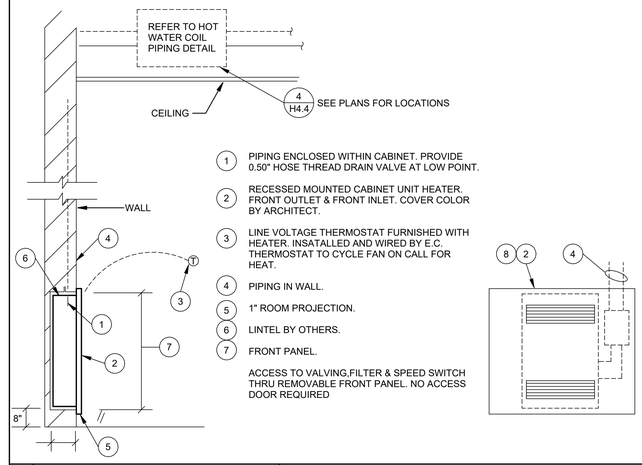
NOTE: ALL BLACK STEEL COMPONENTS SHALL BE PAINTED BY THE H.C.
REFER TO DIVISION 9 FOR PAINT REQUIREMENTS

3 PIPE SUPPORTS N.T.S. — EXTERIOR, ON-GRADE



1. PIPE INSULATION NOT REQUIRED AT VALVE/CONTROLS EXCEPT AS NOTED.
2. SHUT-OFF VALVE PER VALVE SCHEDULE. VALVE SIZE PER VAV AIR TERMINAL UNIT SCHEDULE.
3. PRESSURE TEMPERATURE P/T TEST PLUG. 0.50" NPT, NORDEL CORE WITH CAP RETAINER STRAP.
4. 0.50" BALL DRAIN VALVE WITH CAPPED HOSE THREAD, MIN. 4" BELOW PIPE OR COIL. LOCATE AT COIL WHERE COIL IS BELOW SUPPLY PIPE.
5. INSULATE PIPE, MINIMUM 12" FROM COIL ON REHEAT BOX TO PREVENT CONDENSATION. PER INSULATION SCHEDULE
6. 0.50" MANUAL AIR VENT/BALL VALVE WITH CAPPED HOSE THREAD AND CAP. OUTLET MINIMUM 6" ABOVE PIPE. PROVIDE AT COIL WHERE COIL IS ABOVE RETURN PIPE.
7. RUNOUT PIPING - COPPER, SIZED TO MATCH SCHEDULE. PROVIDE REDUCER AT UNIT FOR COIL CONNECTION.
8. UNION.
9. CONTROL VALVE - 2-WAY OR 3-WAY WITH ELECTRONIC MODULATING ACTUATOR.
10. BALANCING VALVE. REFER TO VALVE SCHEDULE.
11. PIPE INSULATION PER SCHEDULE.
12. Y-STRAINER WITH BLOW DOWN VALVE AND THREADED CAP.
13. LOCATE PIPE HANGER AND INSULATION SHIELD UPSTREAM OF VALVE ASSEMBLY COMPONENTS. HANGER NOT TO BE IN CONTACT WITH EXPOSED PIPE.

4 HOT WATER COIL PIPING N.T.S. — FOR REHEAT COILS



1. PIPING ENCLOSED WITHIN CABINET. PROVIDE 0.50" HOSE THREAD DRAIN VALVE AT LOW POINT.
2. RECESSED MOUNTED CABINET UNIT HEATER. FRONT OUTLET & FRONT INLET. COVER COLOR BY ARCHITECT.
3. LINE VOLTAGE THERMOSTAT FURNISHED WITH HEATER. INSATALLED AND WIRED BY E.C. THERMOSTAT TO CYCLE FAN ON CALL FOR HEAT.
4. PIPING IN WALL.
5. 1" ROOM PROJECTION.
6. LINTEL BY OTHERS.
7. FRONT PANEL.

ACCESS TO VALVING,FILTER & SPEED SWITCH THRU REMOVABLE FRONT PANEL. NO ACCESS DOOR REQUIRED

5 CABINET UNIT HEATER N.T.S. — **WALL MOUNTED RECESSED**

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

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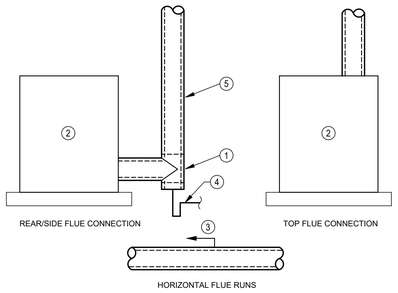
Phone: (937) 223-3821

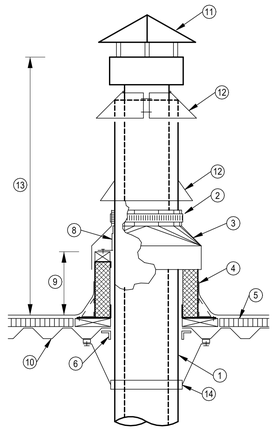
PROJECT # 25029

10/27/2025 11:34:16 AM

1. BOOT TEE FITTING. ROUTE DRAIN TO CONDENSATE NEUTRALIZER.
2. CONDENSING BOILER.
3. SLOPE DUCT 1/4" PER 1' BACK TOWARDS BOILER.
4. CONDENSATE DRAIN TO BE PIPED TO CONDENSATE NEUTRALIZER. PROVIDE TRAP PER MANUFACTURER'S RECOMMENDATIONS.
5. STAINLESS STEEL DOUBLE WALL SPECIAL GAS FLUE.

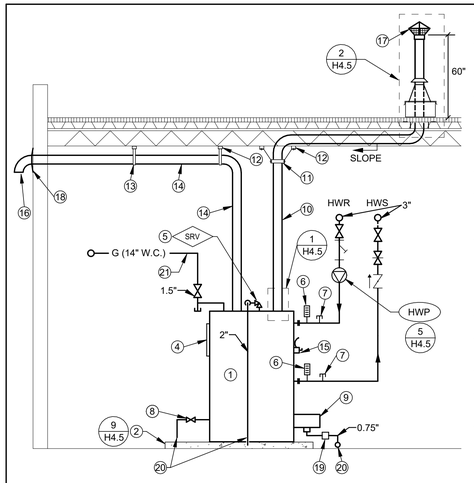


1 CONDENSING BOILER FLUES N.T.S.



1. DOUBLE WALL ST.ST. VENT. REFER TO SPECIFICATION.
2. DRAW BAND. FILL VOID WITH CAULK.
3. COUNTERFLASHING.
4. PREFABRICATED CURB.
5. INSULATION.
6. SUPPLEMENTAL STEEL FRAMING BY G.C.
7. LEAVE 1/4" SPACE AND FILL VOID WITH CAULK ALL AROUND.
8. SHEETMETAL SAFING ALL AROUND. TIGHT TO DUCT.
9. 12" MINIMUM.
10. ROOF DECK.
11. RAIN CAP.
12. STORM COLLAR.
13. MINIMUM 36" ABOVE ROOF.
14. STEEL SUPPORT RING. SECURE TO ROOF DECK WITH UNISTRUCT FRAMING.

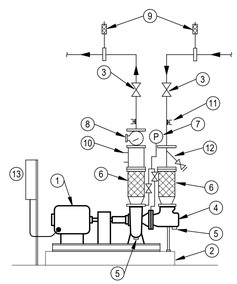
2 DOUBLE WALL FLUE N.T.S.



1. HOT WATER CONDENSING BOILER.
2. NEW CONCRETE EQUIPMENT PAD BY H.C. - SEE DETAIL
3. NOTE NOT USED.
4. BOILER CONTROL PANEL.
5. BOILER SAFETY RELIEF VALVE PROVIDED WITH BOILER. PIPE DISCHARGE TO FLOOR DRAIN.
6. THERMOMETER.
7. PRESSURE/TEMPERATURE TEST PLUG.
8. 1.5" DRAIN VALVE.
9. CONDENSATE DRAIN ASSEMBLY.
10. 4"Ø DOUBLE WALL SPECIAL GAS VENT - SEE SPECIFICATIONS. DRAIN VERTICAL OFFSETS PER MANUFACTURER'S RECOMMENDATION. TRAP 90 DEG VERTICAL TEES. SCHEDULE 40 CPVC CONDENSATE DRAIN TRAP PIPING TO CONDENSATE NEUTRALIZER AND LOCAL FLOOR DRAIN.
11. STEEL SUPPORT RING.
12. UNISTRUT SUPPORTS. ATTACH TO STRUCTURAL STEEL JOISTS. DO NOT SUPPORT FROM DECK.
13. STEEL BAND HANGER.
14. 4"Ø COMBUSTION AIR INTAKE - INSULATE DUCTWORK FOR OUTDOOR AIR SYSTEM PER SCHEDULE.
15. ELECTRICAL POWER CONNECTION BY E.C.
16. PROVIDE WIRE MESH BIRDSCREEN OVER FACE OF DUCTWORK. PROVIDE STAINLESS STEEL GOOSENECK EXTERIOR DUCTWORK.
17. S.S. VENT CAP WITH BIRDSCREEN.
18. S.S. ESCUTCHEON ON FACE OF WALL. SEAL COMBUSTION AIR PIPE THRU EXTERIOR WALL AND PERIMETER OF ESCUTCHEON.
19. CONDENSATE NEUTRALIZER CARTRIDGE.
20. EXTEND PIPE TO DRAIN.
21. GAS PIPE TO GAS TRAIN WITH INTEGRAL SHUTOFF VALVE AND DIRT LEG CLEANOUT BY P.C. PROVIDE UNION AT CONNECTION TO BOILER.

NOTE: DIAGRAMATIC IN NATURE. BOILER FLUE VENT, COMBUSTION AIR, GAS, HYDRONIC CONNECTIONS AND ROUTING MAY VARY BY MANUFACTURER AND INSTALLATION. ADDITIONAL OFFSET MAY BE REQUIRED PER FLOOR PLAN.

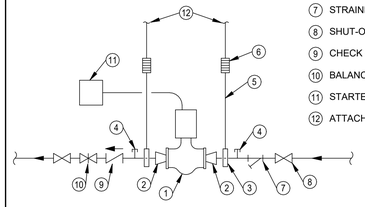
3 CONDENSING HOT WATER BOILER N.T.S.



1. BASE MOUNTED END SUCTION CENTRIFUGAL PUMP WITH INTEGRAL BASE.
2. CONCRETE EQUIPMENT PAD BY G.C. H.C. TO GROUT PUMP BASE.
3. SHUT-OFF VALVE.
4. SUCTION DIFFUSER W/INTEGRAL FINE MESH START-UP STRAINER AND ADJUSTABLE SUPPORT. REMOVE MESH STRAINER AFTER START-UP.
5. DRAIN PLUG.
6. FLEXIDUCER CONNECTOR.
7. PRESSURE GAUGE, PIPING AND VALVES.
8. CHECK VALVE.
9. COMBINATION SPRING ISOLATOR/PIPE HANGER.
10. BALANCING VALVE.
11. PRESSURE-TEMPERATURE TEST PLUG.
12. WYE STRAINER WITH 0.75" BALL BLOW-OFF VALVE AND CAPPED HOSE THREAD.
13. PUMP VFD FURNISHED BY H.C., E.C. TO MOUNT ON FIELD ASSEMBLED UNISTRUT FRAME AND WIRE TO PUMP.

*TRIPLE DUTY VALVE MAY BE UTILIZED IN LIEU OF INDIVIDUAL COMPONENTS.

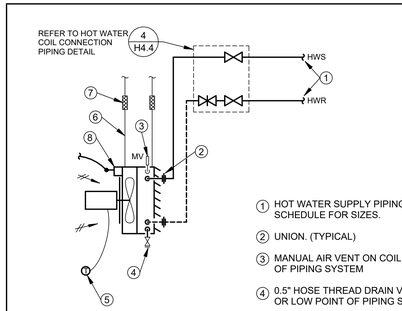
4 BASE MOUNTED PUMP N.T.S.



1. PIPE MOUNTED CENTRIFUGAL PUMP.
2. REDUCER, IF REQUIRED.
3. PIPE HANGER.
4. PRESSURE/TEMPERATURE TEST PLUG.
5. THREADED ROD.
6. VIBRATION ISOLATOR.
7. STRAINER.
8. SHUT-OFF VALVE.
9. CHECK VALVE.
10. BALANCING VALVE.
11. STARTER OR VFD BY E.C.
12. ATTACH TO STRUCTURE.

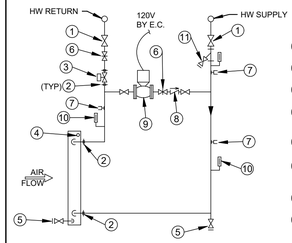
*VALVES & HYDRONIC ACCESSORY COMPONENTS TO BE MOUNTED ON EITHER SIDE OF BOILER, AS REQUIRED BY BOILER MANUFACTURER.

5 PIPE MOUNTED PUMP N.T.S.



1. HOT WATER SUPPLY PIPING. SEE PLAN & SCHEDULE FOR SIZES.
2. UNION. (TYPICAL)
3. MANUAL AIR VENT ON COIL OR HIGH POINT OF PIPING SYSTEM
4. 0.5" HOSE THREAD DRAIN VALVE ON COIL OR LOW POINT OF PIPING SYSTEM.
5. THERMOSTAT TO CYCLE FAN. MOUNT LOCALLY.
6. SUPPORT UNIT HEATER FROM STRUCTURE ABOVE.
7. NEOPRENE VIBRATION ISOLATOR.
8. ELECTRICAL CONNECTION BY E.C. DISCONNECT SWITCH PROVIDED FROM UNIT MANUFACTURER

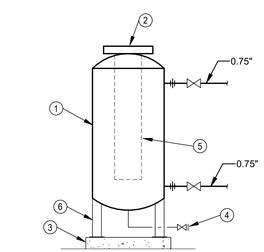
6 PROPELLER UNIT HEATER N.T.S. — HOT WATER, HORIZONTAL MOUNTING



1. SHUT-OFF VALVE.
2. UNION.
3. AUTOMATIC 2-WAY CONTROL VALVE. NORMALLY OPEN THRU COIL. ALL PIPING TO BE LINE SIZE WITH PIPE BUSHING AT CONTROL VALVE.
4. MANUAL AIR VENT.
5. DRAIN VALVE - FULL SIZE.
6. BALANCING VALVE - FULL LINE SIZE.
7. PRESSURE-TEMPERATURE TEST PLUG. (TYP.)
8. CHECK VALVE - FULL LINE SIZE.
9. HW COIL RECIRCULATING PUMP. REFER TO PUMP SCHEDULE FOR SIZE.
10. THERMOMETER. (TYP.)
11. WYE STRAINER W/ REMOVABLE SCREEN.

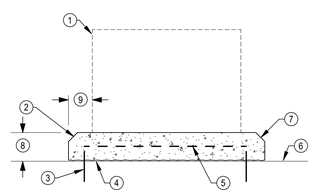
NOTE:
DETAIL IS SHOWN FOR ONE COIL UNIT. TWO OR MORE COIL UNITS SHALL HAVE FULL SIZE INDIVIDUAL COIL SHUT-OFF VALVE. BALANCE VALVES, MANUAL AIR VENTS, DRAIN VALVES & UNIONS ON EACH COIL.

7 A.H. UNIT HOT WATER COIL N.T.S. — 1 COIL, 2-WAY VALVE, CIRCULATION PUMP



1. BY-PASS FILTER FEEDER. 5 GALLON CAPACITY 10" DIA. x 30" HIGH NEPTUNE DBF OR EQUAL
2. 4" FILL CAP.
3. CONCRETE PAD.
4. DRAIN VALVE.
5. 20 MICRON BAG FILTER.
6. MOUNTING LEGS.

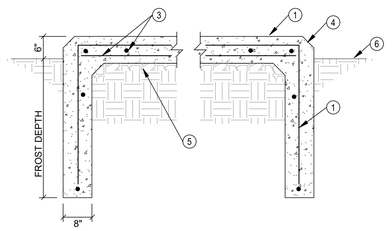
8 BY-PASS FILTER FEEDER - CLOSED LOOP, HOT WATER N.T.S.



1. OUTLINE OF EQUIPMENT.
2. 4,000 PSI CONCRETE.
3. 1-#4 DOWEL, 6" LONG, EACH CORNER.
4. ROUGHEN SLAB & APPLY BONDING AGENT.
5. STEEL REINFORCING MESH.
6. FINISHED CONCRETE FLOOR.
7. 45 DEG. CHAMFER ALL AROUND.
8. 4" THICK CONCRETE SLAB.
9. MINIMUM 2" DISTANCE.

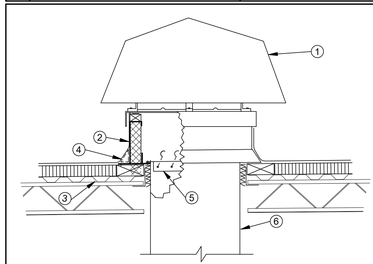
NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

9 INTERIOR CONCRETE EQUIPMENT PAD N.T.S.



1. 6" THICK CONCRETE PAD. 3,500 PSI.
2. #4 BENT REBAR DOWEL @16" O.C.
3. #4 REBAR @12" O.C. EACH WAY.
4. 3/4" CHAMFER ALL EDGES.
5. COMPACTED #57 CRUSHED GRAVEL FILL. 4" THICKNESS MIN.
6. GRADE.

10 EXTERIOR CONCRETE EQUIPMENT PAD N.T.S.



1. ROOF MOUNTED FABRAHOOD VENTILATOR WITH BIRDSCREEN.
2. 24" HIGH PREFABRICATED INSULATED ROOF CURB.
3. METAL DECK.
4. CURB FLASHING BY G.C.
5. GRAVITY BACKDRAFT DAMPER.
6. FOR ROOF OPENING AND DUCT SIZE, SEE PLANS OR SCHEDULE.

3 ROOF VENTILATOR N.T.S.

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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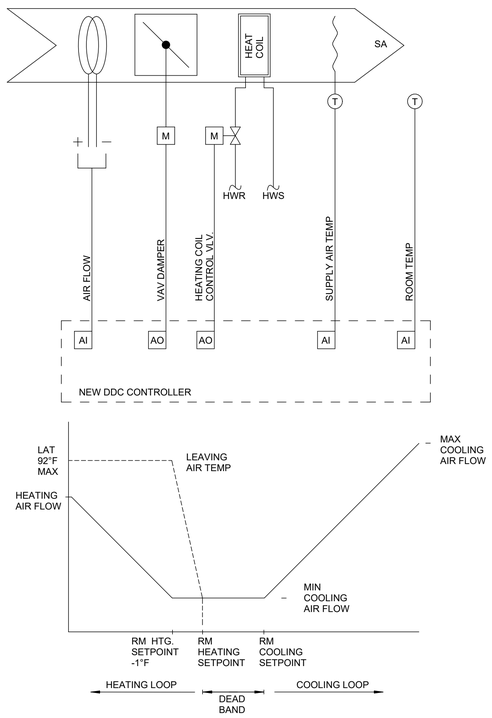
TITLE
DETAILS - MECHANICAL ROOM

SHEET NO.
H4.5

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

10/27/2025 11:34:19 AM



SEQUENCE OF OPERATION

A. THE VAV BOX MANUFACTURER SHALL INCLUDE PNEUMATIC FLOW TAPS FROM THE AIR FLOW SENSOR ON THE BOX INLET AND AN INTEGRAL DAMPER WITH PROTRUDING SHAFT. ALL OTHER CONTROL COMPONENTS SHALL BE FURNISHED BY THE T.C. REHEAT BOXES SHALL BE PROVIDED WITH A 2-WAY MODULATING VALVE (EXCEPT WHERE NOTED TO BE 3-WAY TYPE) FURNISHED IN THIS DDC WORK.

B. CONSTANT VOLUME CONTROL - TERMINAL UNIT SHALL MAINTAIN A CONSTANT AIR FLOW VOLUME. HOT WATER HEATING COIL SHALL MODULATE TO MAINTAIN ROOM TEMPERATURE AT SETPOINT. PROVIDE A 2 DEG. F DEADBAND. WHEN THE ROOM TEMPERATURE FALLS BELOW SETPOINT, THE HOT WATER VALVE SHALL MODULATE OPEN. AS THE SPACE TEMPERATURE RISES TO SETPOINT THE VALVE SHALL MODULATE TOWARD THE CLOSED POSITION. WHEN THE ROOM TEMPERATURE RISES ABOVE THE HEATING SETPOINT THE VALVE SHALL MODULATE CLOSED.

C. VARIABLE AIR VOLUME CONTROL - AS THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT THE AIRFLOW DAMPER SHALL MODULATE FROM THE MINIMUM TO THE MAXIMUM COOLING AIRFLOW. THE REHEAT COIL VALVE SHALL BE FULLY CLOSED.

AS THE SPACE TEMPERATURE DROPS TOWARDS THE COOLING SETPOINT THE AIRFLOW DAMPER SHALL MODULATE FROM THE MAXIMUM TO THE MINIMUM FLOW RATE.

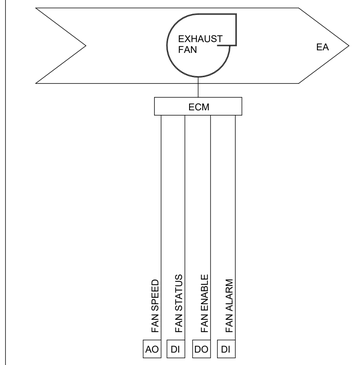
UPON A CONTINUED DROP IN SPACE TEMPERATURE, THROUGH A DEADBAND THE TERMINAL UNIT SHALL THEN ENTER THE HEATING MODE. THE AIR FLOW SHALL BE SET AT THE MINIMUM FLOW AND THE REHEAT VALVE SHALL MODULATE TOWARDS THE OPEN POSITION. THE UNIT DISCHARGE AIR TEMPERATURE SHALL BE RESET VIA A PID LOOP FROM 55 DEG. F UP TO 95 DEG F BASED ON ROOM TEMPERATURE BELOW THE HEATING SET POINT.

D. AS THE SPACE TEMPERATURE CONTINUES TO DROP THE AIRFLOW SET POINT SHALL BE INCREASED TOWARD THE HEATING AIRFLOW SET POINT. THE MAXIMUM DISCHARGE AIR TEMPERATURE SHALL REMAIN LIMITED TO 95° F.

E. DISCHARGE AIR TEMPERATURE SENSOR - PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR IN THE SUPPLY DUCT (FIELD INSTALLED BY THE TEMPERATURE CONTROL SUBCONTRACTOR) FOR EACH REHEAT BOX FOR CONTROL, MONITORING AND TROUBLE SHOOTING PURPOSES. THE SENSOR SHALL BE A PRECISION THERMISTOR TYPE, WITH ACCURACY OF + OR - 0.5 DEG. F., MAXIMUM.

TERMINAL UNITS THAT SHARE A ROOM TEMP. SENSOR SHALL CONTROL IN UNISON PER THE ABOVE SEQUENCE.

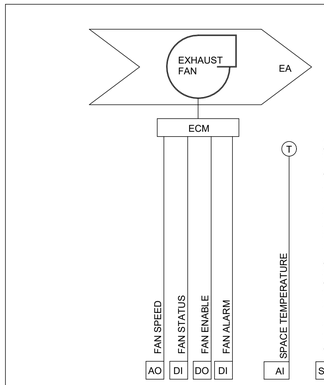
1 AIR TERMINAL UNIT CONTROL DIAGRAM
N.T.S.



SEQUENCE OF OPERATION

A. FAN OPERATION
   a. DURING THE OWNER DEFINED OCCUPIED HOURS SCHEDULE (ADJ.), THE EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. DURING UNOCCUPIED HOURS, THE EXHAUST FAN SHALL BE OFF.

2 EXHAUST FAN CONTROL DIAGRAM | OCCUPIED/UNOCCUPIED OPERATION



SEQUENCE OF OPERATION

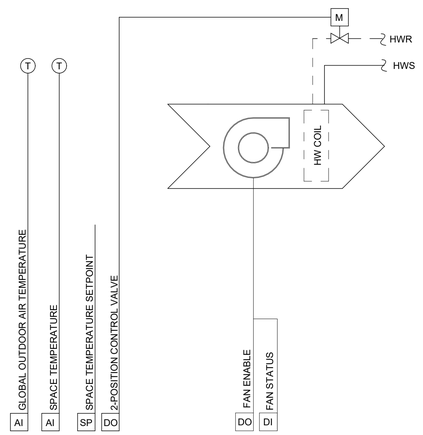
A. FAN OPERATION

   a. FAN SHALL OPERATE AT FULL DESIGN AIRFLOW TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. INITIAL SPACE TEMPERATURE SETPOINT SHALL BE SET TO 78 DEG. F (ADJ.).

   b. OCCUPANCY
   - OCCUPIED MODE - DURING THE OCCUPIED MODE, THE EXHAUST FAN SHALL BE ENABLED ON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT. DISABLE FAN ON A DROP BELOW SETPOINT. THE DEDICATED VAV AIR TERMINAL UNIT SHALL PROVIDE MAKEUP AIR TO THE SPACE.
   - UNOCCUPIED MODE - DURING THE UNOCCUPIED MODE, THE EXHAUST FAN SHALL BE ENABLED ON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT. DISABLE FAN ON A DROP BELOW SETPOINT. MAKEUP AIR TO BE DRAWN FROM PLENUM SPACE.

   c. ALARM - IF SPACE TEMPERATURE DOES NOT FALL BELOW SETPOINT AFTER 30 MINUTES OF FAN OPERATION, SEND AN ALARM TO THE DDC CONSOLE.

3 EXHAUST FAN CONTROL DIAGRAM | ELEVATOR MACHINE ROOM



SEQUENCE OF OPERATION

A. DESCRIPTION - EACH CABINET AND PROPELLER UNIT HEATER SHALL BE PROVIDED THE FOLLOWING:
   A. CONTROL VALVE -
   - PROVIDE A FULLY MODULATING CONTROL VALVE (BALL VALVE) TO OPERATE IN 2-POSITION ON THE HOT WATER RETURN PIPE AT EACH HEATER AND SPACE TEMPERATURE SENSOR.
   - INITIAL SET UP SHALL BE FOR THE VALVE TO OPERATE IN A TWO POSITION (OPEN/CLOSE) CONFIGURATION, HOWEVER VALVE SHALL BE CAPABLE OF FULL MODULATION SHOULD A CONTROL SCHEME REQUIRE SO IN THE FUTURE.

   B. SPACE TEMPERATURE SENSOR - REFER TO SPECIFICATIONS FOR TYPE AND FLOOR PLAN FOR LOCATION.

B. CONTROL VALVE OPERATION -
   A. OPEN CONTROL VALVE TO 100% (ADJ.) UPON A FALLING OUTDOOR AIR TEMPERATURE BELOW 55 DEG. F (ADJ.)
   B. CLOSE VALVE WHEN OUTDOOR AIR TEMPERATURE RISES ABOVE 55 DEG. F (ADJ.).

C. FAN OPERATION -
   A. SPACE TEMPERATURE SETPOINT SHALL INITIALLY BE SET FOR 70 DEG. F (ADJ.).
   B. IF SPACE TEMPERATURE FALLS BELOW SPACE TEMPERATURE SETPOINT, ENABLE FAN.
   C. IF SPACE TEMPERATURE RISES ABOVE SPACE TEMPERATURE SETPOINT, DISABLE FAN.
   D. SUMMER FAN OPERATION - IF OUTDOOR AIR TEMPERATURE RISES ABOVE 80 DEG. F (ADJ.), AND SPACE TEMPERATURE RISE ABOVE 80 DEG. F. (ADJ.), ENABLE FAN.

D. ALARM - IF SPACE TEMPERATURE FALLS BELOW SETPOINT FOR MORE THAN 1 HOUR (ADJ.) SEND AN ALARM TO THE DDC CONSOLE.

4 CABINET & PROPELLER UNIT HEATER CONTROL DIAGRAM
N.T.S.

TEMPERATURE CONTROLS LEGEND

CO/NO2	CARBON MONOXIDE, NITROGEN DIOXIDE SENSOR ALARM
BAS	BUILDING AUTOMATION SYSTEM
ECM	ECM CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
T	TEMPERATURE SENSOR
FS	FLOW SWITCH
SP	STATIC PRESSURE SENSOR
DP	DIFFERENTIAL STATIC PRESSURE SENSOR
T	TEMPERATURE SENSOR & WELL
	MOTORIZED VALVE ACTUATOR
FDG	FIELD DIAL GAUGE
SD	SMOKE DETECTOR
M	MOTORIZED DAMPER & ACTUATOR
H	HUMIDITY SENSOR
FM	FLOW METER
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT

CONTROLS GENERAL NOTES

MONITORING AND ALARMS

A. THE FOLLOWING POINTS SHALL BE MONITORED AND ALARMED AT THE MONITORING CONSOLE AND AS OTHERWISE SPECIFIED HEREINAFTER. THESE ARE IN ADDITION TO POINTS REQUIRED FOR OPERATIONAL CONTROL.

   a. CURRENT SENSING RELAYS - PROVIDE FOR:
   - AHU-1 SUPPLY AND RETURN AIR FANS
   - CU-1 CONDENSING UNIT
   - EXHAUST FANS

   b. HIGH/LOW TEMPERATURE ALARMS ON ALL DDC TEMPERATURE SENSORS WITH OFF-NORMAL MESSAGES.

   c. GENERATOR RUN STATUS AND TROUBLE SIGNALS FROM REMOTE GENERATOR ANNUNCIATOR BY WATCH OFFICE.

   d. TECHNOLOGY COMPUTER ROOM TEMPERATURE SENSOR, ALARM AT 80 DEG. F. (ADJ).

   e. OUTSIDE AIR HUMIDITY (ANALOG, NO ALARM).

B. WHEN INTERFACING WITH EQUIPMENT PROVIDING REMOTE ANALOG INPUT OR RECEIVING ANALOG OUTPUTS TO THE DDC SYSTEM OR WHEN MONITORING REQUIRES THE INSTALLATION OF EXTERNAL RELAYS AT THE EQUIPMENT BEING MONITORED, COORDINATE ALL REQUIREMENTS SUCH AS RANGE, SIGNAL CONDITION, GROUNDING, WIRING AND INPUT IMPEDANCE WITH THE SUPPLIER OF THE EQUIPMENT BEING MONITORED.

C. DIAL OUT ALARMS - DDC SYSTEM SHALL BE CAPABLE OF INITIATING DIAL OUT ALARM MESSAGE TO PAGERS, TELEPHONE OR INTERNET WHENEVER THE SYSTEM DETECTS AN ALARM. COORDINATE LIST OF DESIRED ALARMS AND INTERFACE WITH OWNERS' NOTIFICATION EQUIPMENT WITH THE SCHOOL DISTRICT.

D. PROVIDE ALL REQUIRED CONTROL WIRING TO TIE OPERATION OF CONDENSING UNIT, CD-1, TO AIR HANDLING UNIT, AHU-1.

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

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	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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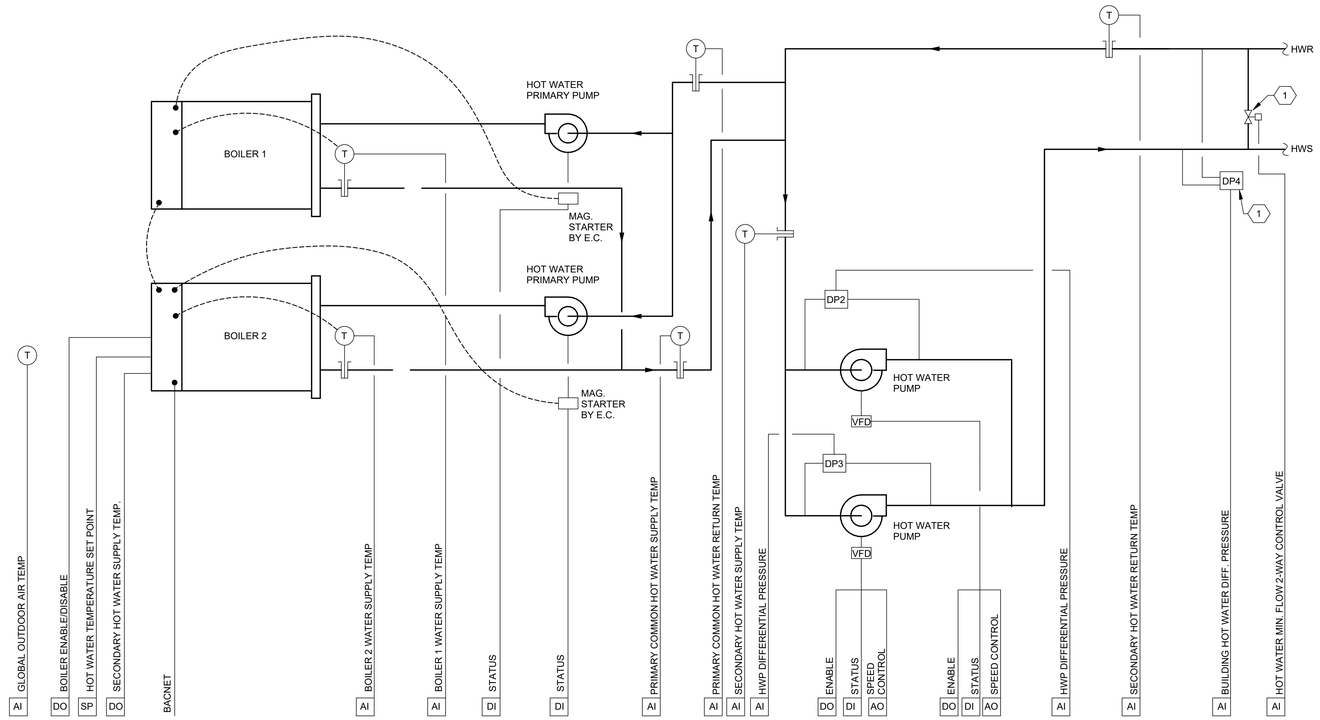
TITLE
CONTROLS LEGEND, NOTES & MISC. CONTROLS DIAGRAM

SHEET NO.
H5.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone (937) 223-3821

PROJECT # 25029

10/27/2025 11:34:21 AM



SEQUENCE OF OPERATION

SYSTEM DESCRIPTION
- THE HEATING HOT WATER SYSTEM CONSISTS OF TWO BOILERS, CONSTANT FLOW PRIMARY PUMPS, AND VARIABLE FLOW SECONDARY PUMPS. THE SYSTEM PROVIDES HEATING HOT WATER TO THE AIR HANDLING UNIT, VAV TERMINAL UNITS & UNIT HEATERS.
- THE BOILERS SHALL BE CONTROLLED THROUGH AN ONBOARD BOILER CONTROL SYSTEM PROVIDED WITH THE BOILERS. THIS CONTROLLER SHALL CONTROL BOTH THE BOILERS AND PRIMARY HOT WATER PUMPS.
- THE DDC SYSTEM SHALL PROVIDE CONTROL POINTS TO THE MAIN BOILER CONTROLLER VIA A BACNET CONNECTION TO THE BOILER CONTROL PANEL. THE DDC SYSTEM SHALL CONTROL THE SECONDARY HOT WATER PUMPS.

BOILER SYSTEM SEQUENCING
- THE BOILERS ARE SIZED FOR REDUNDANCY, I.E., ONLY ONE BOILER IS REQUIRED TO HEAT THE BUILDING.
- THE SECONDARY HOT WATER PUMPS ARE SIZED FOR REDUNDANCY, I.E., ONLY ONE PUMP IS REQUIRED TO HEAT THE BUILDING.
- THE BOILER AND SECONDARY HOT WATER PUMP LEAD/LAG STATUS SHALL BE ROTATED ON A MONTLY BASIS THROUGH THE BOILER CONTROL SYSTEM.

HOT WATER SYSTEM ENABLE
- THE HEATING HOT WATER SYSTEM PUMPS AND BOILERS SHALL BE ENABLED THROUGH THE DDC SYSTEM WHEN ANY OF THE FOLLOWING OCCUR:
  1. THE AIR HANDLING UNIT CALLS FOR HEAT TO MAINTAIN THE DISCHARGE AIR SETPOINT TEMPERATURE.
  2. FOUR OR MORE VAV TERMINAL UNITS CALL FOR HEAT.
  3. THE OUTDOOR AIR TEMPERATURE DROPS BELOW 60°F (ADJ.)

SYSTEM DISABLE
- THE BOILERS AND THEIR RESPECTIVE PRIMARY PUMPS SHALL BE DISABLED UPON A RISE IN OUTDOOR AIR TEMPERATURE AND VAV TERMINAL UNITS / AIR HANDLING UNITS ARE SATISFIED FOR MORE THAN 1 HOUR.
- THE SECONDARY HOT WATER PUMPS SHALL RUN FOR AN ADDITIONAL 60 MIN. BEFORE SHUTTING OFF.

HOT WATER SYSTEM OPERATION
- BOILER & PRIMARY PUMP SEQUENCING AND CONTROL
  1. DESCRIPTION - THE PRIMARY HOT WATER PUMPS ARE DEDICATED TO THEIR RESPECTIVE BOILERS AND CONTROLLED BY THE BOILER CONTROL SYSTEM.
  2. ENABLE - UPON ENABLE, THE BOILERS CONTROL SYSTEM SHALL ENABLE THE LEAD BOILER AND LEAD PRIMARY PUMP. PROVE FLOW PRIOR TO BOILER BURNER START.
  3. CONTROL - THE ONBOARD BOILER CONTROL SYSTEM SHALL MODULATE BOILER BURNER FIRING RATE AS REQUIRED TO SATISFY THE SECONDARY HOT WATER TEMPERATURE SETPOINT AS DETERMINED BY THE HOT WATER RESET SCHEDULE.
  4. FAILSAFE CONTROL - IF THE LEAD BOILER AND/OR LEAD PUMP FAILS TO START, THE LAG BOILER AND LAG PRIMARY PUMP SHALL START. SEND ALARM TO THE DDC CONSOLE.

SEQUENCE OF OPERATION

SECONDARY PUMPS SEQUENCING AND CONTROL
1. ENABLE - WHEN THE HEATING HOT WATER SYSTEM IS ENABLED, THE LEAD SECONDARY PUMP SHALL START.
2. THE RESPECTIVE PUMPS DIFFERENTIAL PRESSURE SENSOR SHALL PROVE FLOW THROUGH THE PUMP. IF THE LEAD PUMP FAILS TO START, THE LAG PUMP SHALL START AND AN ALARM SHALL BE SENT TO THE DDC CONSOLE.
3. THE DDC SYSTEM SHALL MODULATE THE OPERATING SECONDARY HOT WATER PUMP'S VFD TO MAINTAIN THE BUILDING HOT WATER DIFFERENTIAL PRESSURE SETPOINT. IF EITHER OF THE HOT WATER SYSTEMS DIFFERENTIAL PRESSURE SENSORS DROPS BELOW SETPOINT, PUMP SHALL MODULATE UP ACCORDINGLY. SETPOINT SHALL INITIALLY BE 10 (PSI) AND MODIFIED AS DETERMINED BY THE BALANCING CONTRACTOR.
4. MININMUM FLOW - THE PUMP MINIMUM FLOW IS TO BE ESTABLISHED BY THE MANUFACTURER AND THE BALANCING CONTRACTOR IS TO SET VFD TO OPERATE NO LESS THAN 5% (ADJ.) ABOVE PUBLISHED VALUE. MINIMUM FLOW IS TO BE HANDLED BY 3-WAY VALVES THROUGHOUT THE SYSTEM. AN ADDITIONAL 2-WAY MIN. FLOW CONTROL VALVE SHALL BE PROVIDED ON THE NORTH LOOP TO HANDLE MINIMUM FLOW WHILE THE BUILDING IS RENOVATED AND IS TO REMAIN IN OPERATION AFTER CONSTRUCTION IS COMPLETE.

HOT WATER TEMPERATURE RESET SCHEDULE
- THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL BE LINEARLY RESET BASED ON OUTDOOR AIR TEMPERATURE AS FOLLOWS:
  1. 50°F OAT AND GREATER = 120°F
  2. 20°F OAT AND LESS = 140°F

OTHER COMMANDS/DISPLAYS
- DIFFERENTIAL PRESSURE SETPOINT
- DIFFERENTIAL PRESSURE
- PUMP DIFFERENTIAL PRESSURE
- GLOBAL OUTDOOR AIR TEMPERATURE
- BOILER STATUS
- BOILER OUTPUT %
- BOILER SUPPLY/RETURN TEMPERATURES
- HOT WATER RESET SCHEDULE & CURRENT SETPOINT TEMPERATURE
- AHU CONTROL VALVE OPEN %

MONITORING ONLY POINTS
- PRIMARY COMMON HOT WATER SUPPLY AND RETURN TEMPERATURE

ALARMS AND SAFETIES
- LOW SECONDARY HOT WATER SUPPLY TEMPERATURE ALARM
- LOW/HIGH BUILDING HOT WATER DIFFERENTIAL PRESSURE ALARM
- PUMP COMMAND/STATUS MISMATCH ALARM
- PUMP NO FLOW ALARMS.
- PUMP VFD ALARM
- BOILER ALARMS FROM BOILER CONTROL SYSTEM

GENERAL CONTROL NOTES

1. THE T.C. SHALL PROVIDE ALL FIELD CONTROLS CONNECTIONS REQUIRED FOR EACH BOILERS CONTROL SYSTEM. THIS INCLUDES THE FOLLOWING:
   - PRIMARY HOT WATER PUMP CONTROL CONNECTIONS FROM BOILER CONTROL PANEL TO RESPECTIVE MOTOR STARTERS.
   - MASTER / SLAVE BOILER CONTROL SYSTEM CONNECTION.
   - ALL BACNET CONNECTIONS REQUIRED FOR OPERATION.

CONSTRUCTION NOTES

1. REFER TO FLOOR PLAN FOR LOCATION OF DEVICE.

MINIMUM FLOW BYPASS CONTROL VALVE SCHEDULE

GENERAL NOTES

SEE AIR TERMINAL UNIT SCHEDULE FOR AIR TERMINAL UNIT CONTROL VALVES.
SEE AHU SCHEDULES FOR AHU HOT WATER CONTROL VALVES.

TAG	SERVICE	VALVE LOCATION	FLOW RATE (GPM)	PIPE & VALVE SIZE (IN.)	MAX WPD (FT. HD)	VALVE CV	NOTES
HWM-1	HWP-3/HWP-4	2ND FLOOR CORRIDOR	7.5	1.0	20	2.56	ALL

NOTES:
1. REFER TO DETAIL FOR ADDITIONAL VALVES AND COMPONENTS.

1 HEATING SYSTEM - BOILERS - PRIMARY/SECONDARY CONTROL DIAGRAM
N.T.S.

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City of Huber Heights Tax, Finance & Water Department
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ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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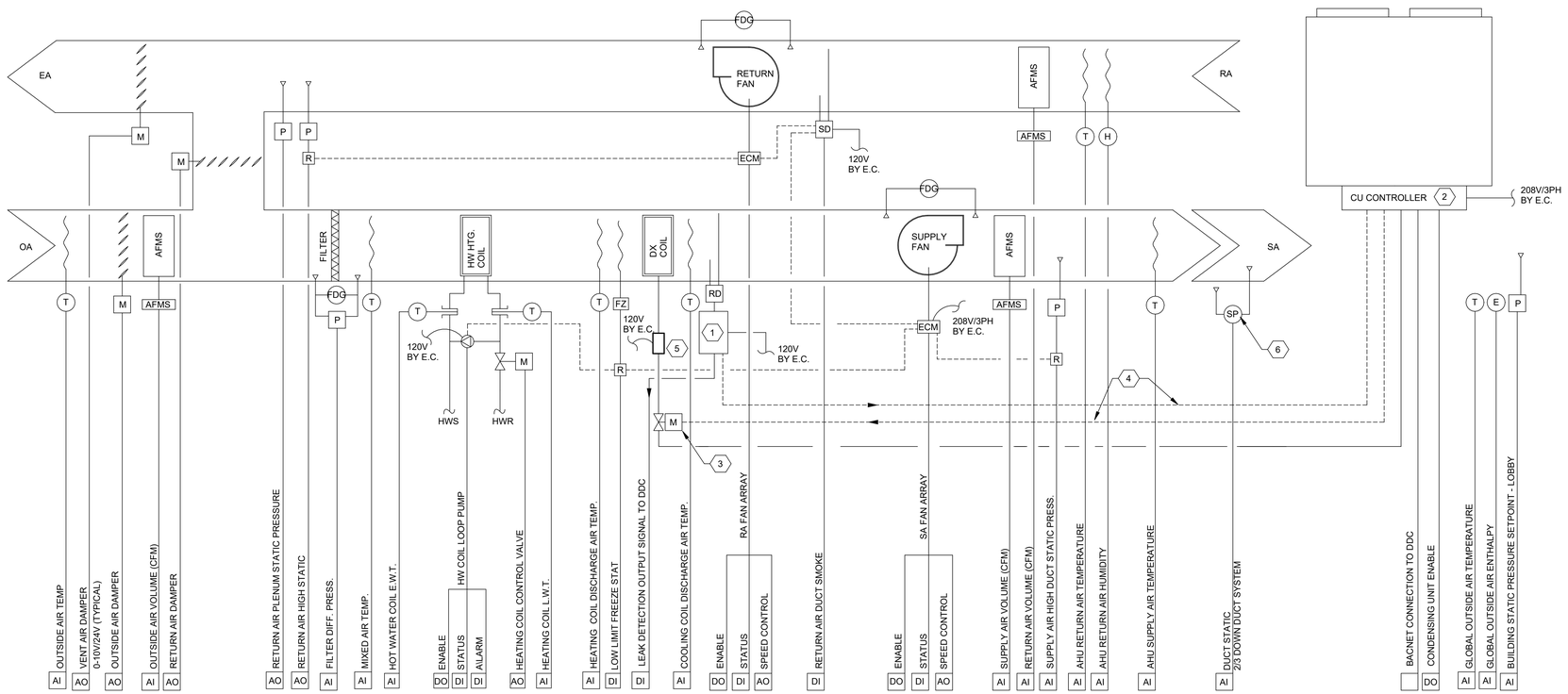
TITLE
HEATING HOT WATER SYSTEM CONTROLS DIAGRAM

SHEET NO.
H5.2

10/27/2025 11:34:22 AM



CONSTRUCTION NOTES

1. AIR HANDLING UNIT REFRIGERANT LEAK DETECTION SYSTEM CONTROLLER BY MANUFACTURER. REFRIGERANT LEAK DETECTOR SENSOR(S) AND WIRING TO CONTROLLER BY MANUFACTURER. T.C. TO HARD WIRE OUTPUT SIGNAL TO CONDENSING UNIT (CU) DX CONTROLLER FOR SHUTDOWN OF REFRIGERATION SYSTEM. T.C. TO WIRE GENERAL LEAK DETECTION OUTPUT SIGNAL TO DDC FOR REFRIGERANT LEAK DETECTION SEQUENCE. 120V. POWER BY E.C.
2. CONDENSING UNIT DX CONTROLLER PROVIDED INTEGRAL TO CONDENSING UNIT BY UNIT MANUFACTURER.
3. REFRIGERANT ISOLATION SOLENOID VALVES, INSTALLED BY THE H.C., CONTROL/POWER WIRING BY T.C. WIRE FROM THE DX CONTROLLER TO CLOSE UPON REFRIGERANT LEAK DETECTION.
4. PROVIDE ALL REQUIRED CONTROL WIRING, RELAYS, SWITCHES, TRANSFORMERS, AND MISC. DEVICES TO TIE OPERATION OF CONDENSING UNIT TO THE AIR HANDLING UNIT.
5. ELECTRONIC THERMOSTATIC EXPANSION VALVE CONTROL WIRING BY T.C. POWER WIRING BY E.C. NUMBER OF VALVES AS REQUIRED PER MANUFACTURER.
6. REFER TO FLOOR PLAN DRAWINGS FOR LOCATION.

SEQUENCE OF OPERATION

UNIT OPERATION

THE AIR HANDLING SYSTEMS SHALL OPERATE IN AN OCCUPIED OR UNOCCUPIED MODE OF OPERATION, BASED ON A CALENDAR AND TIME OF DAY ADJUSTABLE SCHEDULE. THE SYSTEM SHALL ALLOW SCHEDULING FOR DAILY AND WEEKEND SCHEDULING.

UNOCCUPIED SETBACK MODE (39 DEG F < OAT < 65 DEG F)

- DURING THE UNOCCUPIED MODE WHEN THE OUTDOOR AIR TEMPERATURE IS BETWEEN 40 AND 65 DEGREES F, THE SUPPLY AND RETURN FANS SHALL BE OFF. THE OUTDOOR AND RELIEF AIR DAMPERS SHALL BE FULLY CLOSED, THE RETURN AIR DAMPER FULLY OPEN. DX COOLING SYSTEM OFF AND HOT WATER VALVES SHALL BE CLOSED.
- IF ANY SPACE TEMPERATURE IN THE SYSTEM DROPS BELOW 62 DEG. F (ADJ.), THE SUPPLY AND RETURN FANS SHALL START AND CONTROL TO THEIR STATIC PRESSURE SET POINTS (REFER TO FAN VOLUME CONTROL SECTION). OUTDOOR AND RELIEF AIR DAMPERS REMAIN CLOSED AND DX COOLING SHALL REMAIN OFF. THE HOT WATER COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN A UNIT SUPPLY AIR TEMPERATURE OF 60 DEG F. VAV AIR TERMINAL UNITS SHALL MAINTAIN THEIR SETTINGS.
- WHEN THE SPACE TEMPERATURE RISES ABOVE 65 DEG F. THE SUPPLY AND RETURN FANS SHALL CYCLE OFF.

UNOCCUPIED SETBACK MODE (OAT < 38 DEG F)

- DURING THE UNOCCUPIED MODE WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN 38 DEG F. THE SUPPLY FANS SHALL BE OFF. THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE CLOSED, RETURN AIR DAMPERS FULL OPEN, CHILLED WATER VALVE SHALL BE CLOSED. THE RETURN FANS SHALL OPERATE AT 50% SPEED TO PRESSURIZE THE MIXED AIR CHAMBER AND PROVIDE LIMITED AIRFLOW DOWNSTREAM. THE HOT WATER COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 63 DEG F.
- IF ANY SPACE TEMPERATURE ON THE SYSTEM DROPS BELOW 65 DEG. F (ADJ) THE SUPPLY AND RETURN FANS SHALL START AND CONTROL TO THEIR STATIC PRESSURE SET POINTS (REFER TO FAN VOLUME CONTROL SECTION). OUTSIDE AND RELIEF AIR DAMPERS CLOSED AND DX COOLING OFF. THE HOT WATER COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN A UNIT SUPPLY AIR TEMPERATURE OF 60 DEG F. VAV AIR TERMINAL UNITS SHALL MAINTAIN THEIR HEATING SETTING TO SATISFY SPACE TEMPERATURE
- WHEN THE SPACE TEMPERATURE RISES ABOVE 65 DEG F. THE SUPPLY AND RETURN FANS SHALL CYCLE OFF.

UNOCCUPIED SET UP MODE (60 DEG F < OAT)

- DURING THE UNOCCUPIED MODE WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 60 DEG F THE UNIT SHALL ENTER THE TEMPERATURE SET UP MODE. THE SUPPLY AND RETURN FANS SHALL BE OFF. THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE CLOSED, RETURN AIR DAMPERS FULL OPEN. DX COOLING OFF AND HOT WATER VALVE SHALL BE CLOSED.
- IF ANY SPACE TEMPERATURE ON THE SYSTEM RISES ABOVE 82 DEG F., THE SUPPLY AND RETURN FANS SHALL START AND CONTROL TO THEIR STATIC PRESSURE SET POINTS. OUTSIDE AND RELIEF AIR DAMPERS AND HEATING COIL VALVE SHALL REMAIN CLOSED. THE DX COOLING SYSTEM SHALL MODULATE TO MAINTAIN A 55 DEG F UNIT SUPPLY AIR TEMPERATURE.
- WHEN THE SPACE TEMPERATURE REACHES 78 DEG F THE SUPPLY AND RETURN FANS SHALL CYCLE OFF.

SEQUENCE OF OPERATION

MORNING START-UP CYCLES

THE PROGRAM SHALL BE CAPABLE OF AN OPTIMAL START SEQUENCE THAT SHALL START THE SYSTEMS, AS INDICATED BELOW, IN ADVANCE OF THE OCCUPIED TIME.

MORNING WARM UP

- THE UNIT FANS SHALL START AND CONTROL TO THEIR STATIC PRESSURE SET POINTS. THE OUTSIDE AND RELIEF AIR DAMPERS AND CHILLED WATER VALVE SHALL BE CLOSED. RETURN DAMPERS SHALL BE FULL OPEN. THE HOT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 70 DEG F.
- VAV TERMINAL UNITS SHALL OPERATE IN THEIR "OCCUPIED - STANDBY" MODE OF OPERATION.

MORNING COOL DOWN

- THE UNIT FANS SHALL START AND CONTROL TO THEIR STATIC PRESSURE SET POINTS. THE CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 55 DEG F. THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE FULLY CLOSED, RETURN AIR DAMPERS FULLY OPEN, UNLESS THE OUTSIDE AIR TEMPERATURE IS SUCH THAT THE ECONOMIZER CYCLE CAN BE USED. HOT WATER CONTROL VALVE SHALL BE CLOSED.
- VAV TERMINAL UNITS SHALL OPERATE IN THEIR "OCCUPIED - STANDBY" MODE OF OPERATION.

OCCUPIED MODE

WHEN INDEXED TO THE OCCUPIED MODE, THE OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO THEIR OCCUPIED POSITION.

THE OUTSIDE AIR DAMPERS SHALL BE SET TO PROVIDE THE MINIMUM OUTDOOR VENTILATION AS PER THE AIR HANDLING UNIT SCHEDULE AND AS BALANCED BY THE BALANCING CONTRACTOR THRU THE AIRFLOW MEASURING STATION.

SUPPLY AND RETURN AIR FAN ARRAYS SHALL OPERATE AS NOTED BELOW IN THE FAN VOLUME CONTROL SECTION.

SUPPLY AIR TEMPERATURE SETPOINT & RESET SCHEDULE

THE UNIT SHALL UTILIZE A HEATING OR COOLING MODE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE. THE UNIT SHALL UTILIZE THE OUTDOOR AIR DAMPER DURING ECONOMIZER MODE, THE DX COOLING COIL/CONDENSING UNIT STAGED COMPRESSORS OR THE HOT WATER HEATING COIL'S CONTROL VALVE SHALL MODULATE IN SEQUENCE, WITHOUT OVERLAP, TO MAINTAIN THE SUPPLY AIR TEMPERATURE (SAT) SET POINT ON A RESPECTIVE RISE OR FALL IN UNIT DISCHARGE SUPPLY AIR TEMPERATURE. THE SUPPLY TEMPERATURE SHALL BE RESET ACCORDING TO THE FOLLOWING SCHEDULE:

OAT = 20 DEG F & BELOW	SAT SET POINT = 60 DEG F
OAT = 72 DEG F & ABOVE	SAT SET POINT = 53 DEG F

SEQUENCE OF OPERATION

OUTSIDE AIR CONTROL & ECONOMIZER CYCLE

MINIMUM OUTDOOR AIR

- DURING THE OCCUPIED MODE, THE AIR HANDLING UNIT OUTSIDE AIR, RETURN AIR, AND RELIEF AIR DAMPERS SHALL MODULATE TO MAINTAIN THE MINIMUM OUTDOOR AIR FLOW VOLUME SET POINT PER THE AIR HANDLING UNIT SCHEDULE IN CONJUNCTION WITH THE OUTDOOR AIRFLOW MEASURING STATION.

ECONOMIZER CYCLE

- THE ECONOMIZER SHALL BE ENABLED/ DISABLED FROM THE GLOBAL OUTSIDE AIR TEMPERATURE SENSOR AND ENTHALPY SENSOR. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 70 DEG F. AND THE ENTHALPY IS BELOW 28 BTU/LB, THE ECONOMIZER SHALL BE ENABLED. ABOVE EITHER VALUE AND THE ECONOMIZER SHALL BE DISABLED.
- DURING THE ECONOMIZER CYCLE THE OUTDOOR AIR DAMPER SHALL MODULATE OPEN AS REQUIRED TO MAINTAIN THE UNIT DISCHARGE AIR TEMPERATURE SET POINT. THE RETURN AIR DAMPERS SHALL INVERSELY TRACK THE OUTSIDE AIR DAMPERS. THE RELIEF AIR DAMPERS SHALL BE MODULATE TO MAINTAIN BUILDING STATIC PRESSURE SET POINT (SEE BELOW FOR ADDITIONAL INFORMATION).

MIXED AIR LOW LIMIT SAFETY

- PROVIDE A MIXED AIR TEMPERATURE SENSOR FOR LOW LIMIT CONTROL SET AT 45 DEG F. (ADJ.) TO PREVENT OVER-OPENING OF THE OUTDOOR AIR DAMPER.

RELIEF AIR DAMPER CONTROL

BUILDING PRESSURIZATION

- THE RELIEF AIR DAMPER SHALL MODULATE TO MAINTAIN THE BUILDING STATIC PRESSURE SET POINT. INITIAL SET POINT SHALL BE +0.01" WATER COLUMN (ADJ.) AS MEASURED FROM THE PRESSURE SENSOR IN THE LOBBY TO AMBIENT.

SEQUENCE OF OPERATION

FAN VOLUME CONTROL

SUPPLY FAN ARRAY

FAN VOLUME CONTROL

- THROUGH THE ECM CONTROLLER, THE SUPPLY FAN SPEED SHALL BE MODULATED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT.
- INITIAL SETPOINT SHALL BE 1.25" W.C. STATIC PRESSURE BUT SHALL BE ADJUSTED TO THE LOWEST POSSIBLE SETTING AS DETERMINED BY THE BALANCING CONTRACTOR.
- REFER TO DRAWINGS FOR LOCATION OF SENSOR.

STATIC PRESSURE RESET

- THE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET BASED VAV TERMINAL UNIT DAMPER POSITIONS.
- IF ANY ONE (1) (ADJ.) VAV TERMINAL DAMPER EXCEEDS 95% OPEN, THE STATIC PRESSURE SETPOINT SHALL INCREASE BY 0.1" W.C.
- IF ALL DAMPER POSITIONS ARE LESS THAN 90% OPEN, THEN THE SETPOINT SHALL BE REDUCED BY 0.1" W.C.
- DAMPER POSITIONS SHALL BE POLLED AND SETPOINT RESET SHALL OCCUR EVERY 5 MINUTES.
- STATIC PRESSURE SETPOINT RESET SHALL HAVE A MINIMUM AND MAXIMUM RESET RANGE INITIALLY SET AT 0.5" MINIMUM AND 1.75" MAXIMUM. THE RESET RANGE LIMITS SHALL BE DISPLAYED ON THE DDC AHU GRAPHIC AND ADJUSTABLE BY THE SYSTEM OPERATOR.
- THE SYSTEM OPERATION SHALL ALSO BE ABLE TO REMOVE SPECIFIC VAV UNITS FROM THE RESET SEQUENCE IF DAMPER POSITIONS ARE AN OUTLIER VIA THE SYSTEM GRAPHICS.

RETURN FAN ARRAY

FAN VOLUME CONTROL

- THROUGH THE ECM CONTROLLER, THE RETURN FAN ARRAY SPEED SHALL BE MODULATED TO MAINTAIN THE RETURN FAN DISCHARGE PLENUM STATIC PRESSURE SETPOINT AT AN INITIAL SETPOINT OF +0.05" W.C. (ADJ.).
- STATIC SET POINT SHALL THEN BE DETERMINED BY THE BALANCING CONTRACTOR WITH THE UNIT IN THE MINIMUM OUTDOOR AIR POSITION.

SEQUENCE OF OPERATION CONT'D.

SAFETIES

THE FOLLOWING SAFETIES SHALL BE PROVIDED TO STOP THE AIR HANDLING UNIT OPERATION AND AHU COMPONENTS SHALL MODULATE TO THEIR "FAIL SAFE" POSITION FOR EACH OF THE FOLLOWING SITUATIONS. AN ALARM SHALL BE SENT TO THE DDC CONSOLE.

SUPPLY DUCT AIR HIGH DUCT STATIC - SETPOINT 4" (ADJ.).
- OUTSIDE AIR DAMPER: CLOSED
- RELIEF AIR DAMPER: CLOSED
- RETURN AIR DAMPER: 100% OPEN
- SUPPLY FAN ARRAY: OFF
- RETURN FAN ARRAY: OFF

RETURN AIR SMOKE DETECTOR.
- HARDWIRE DETECTOR LOW VOLTAGE OUTPUT TO THE SUPPLY AND RETURN FAN STARTERS TO SHUT-DOWN FANS UPON DETECTOR ACTIVATION.
- UPON THE FANS STOPPING, THE FOLLOWING SHALL OCCUR:
  1. OUTSIDE AIR DAMPER: CLOSED
  2. RELIEF AIR DAMPER: CLOSED
  3. RETURN AIR DAMPER: 100% OPEN

LOW LIMIT FREEZE STAT TRIP (45°F INITIAL SETPOINT).
- OUTSIDE AIR DAMPER: CLOSED
- RELIEF AIR DAMPER: CLOSED
- RETURN AIR DAMPER: 100% OPEN
- SUPPLY FAN ARRAY: OFF
- RETURN FAN ARRAY: ARRAY SHALL OPERATE AT 50% MAX. AIRFLOW TO PRESSURIZE THE AHU CABINET.
- HOT WATER HEATING COIL AND PUMP: COIL CONTROL VALVE SHALL MODULATE TO 100% OPEN AND THE LEAD SECONDARY HEATING HOT WATER PUMP SHALL OPERATE AT A MINIMUM 30% SPEED TO CIRCULATE WATER IF NOT CURRENTLY OPERATING AT A HIGHER SPEED.

ALARMS

- PROVIDE ALL ALARMS FROM FAN ECM CONTROLLERS
- HIGH SUPPLY AND RETURN FAN STATIC PRESSURE ALARM
- HIGH FILTER STATIC PRESSURE DP

SEQUENCE OF OPERATION CONT'D.

REFRIGERANT DETECTION & MITIGATION CONTROL

- REFRIGERANT SYSTEMS WITH AN A2L OR HIGHER FLAMMABILITY CLASSIFICATION, AS DEFINED IN ASHRAE STANDARD 15 AND 34, SHALL BE EQUIPPED WITH A REFRIGERANT LEAK DETECTION SYSTEM. THE LEAK DETECTION SYSTEM SHALL PROVIDE THE FOLLOWING MITIGATION CONTROLS TO ENSURE THERE IS NEVER A BUILD UP OF REFRIGERANT GREATER THAN THE LOWER FLAMMABILITY OF THE RESPECTIVE REFRIGERANT. THIS MODE OF OPERATION SHALL OPERATE FOR MIN. 5 MINUTES AFTER OUTPUT ALARM SIGNAL HAS RESET. THE FOLLOWING SHALL OCCUR:
  1. SEND OUTPUT SIGNAL TO CONDENSING UNIT DX CONTROLLER TO SHUT DOWN UNIT AND ACTIVATE REFRIGERANT SYSTEM SAFETY SOLENOID SHUT-OFF VALVES TO REDUCE RELEASABLE REFRIGERANT CHARGE.
  2. SEND OUTPUT SIGNAL TO DDC SYSTEM FOR THE FOLLOWING SEQUENCE:
     - A. DE-ENERGIZE ELECTRIC RESISTANCE HEAT THAT IS INSTALLED IN THE AIR DUCT SYSTEM, INCLUDING AIR TERMINAL UNIT COILS AND THE AIR HANDLING UNIT COIL.
     - B. DE-ENERGIZE POTENTIAL IGNITION SOURCES, INCLUDING OPEN FLAMES (DIRECT AND INDIRECT GAS FURNACES) AND UNCLASSIFIED ELECTRICAL SOURCES OF IGNITION WITH APPARENT POWER RATING GREATER THAN 1KVA, WHERE THE APPARENT POWER IS THE PRODUCT OF THE CIRCUIT VOLTAGE AND CURRENT RATING.
     - C. AIR HANDLING UNIT OUTSIDE, RETURN AND RELIEF AIR DAMPERS SHALL STAY IN CURRENT POSITION.
     - D. OPEN AIR TERMINAL UNITS TO FULL AIRFLOW POSITION.
     - E. ENERGIZE THE FAN ARRAYS TO DESIGN AIRFLOW RATE. MAINTAIN DESIGN AIRFLOW RATE UNTIL REFRIGERANT IS NOT DETECTED ABOVE LIMIT.
     - **F.** UPON ALARM RESET, AIR HANDLING UNIT & RELATED COMPONENTS SHALL RETURN TO NORMAL OPERATING MODES. THE CONDENSING UNIT SHALL REMAIN IN ALARM UNTIL MANUALLY RESET BY TECHNICIAN.

1 **AHU-1 CONTROL DIAGRAM**
N.T.S.

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STATE OF OHIO
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REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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TITLE
AIR HANDLING UNIT CONTROLS DIAGRAM

SHEET NO.
H5.3

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Building:	Huber Heights City Hall Renovation	
System Tag/Name:	AHU-1	
Operating Condition Description:	Normal Business Hours	
Units (select from pull-down list)	IP	

Inputs for System	Name	Units		sys diversity System		Diversity		air diversity System
Floor area served by system	As	sf		8,610				
Population of area served by system	Ps	P		81	D	53%		43
Design primary supply fan airflow rate	Vpsd	cfm		8,360		95%		8,000
OA rec'd per unit area for system (Wieghted average)	Ras	cfm/sf		0.08				
OA rec'd per person for system area (Weighted average)	Rps	cfm/p		5.0				
Percent increase in Vbz over minimum required				0%				

Inputs for Potentially Critical zones			TAX ADMIN	TECHNICIAN	ANALYST	ANALYST	ASSISTANT TAX ADMIN.	COPY	RESTROOM	ADA UNISEX RR	ELEVATOR EQUIP RM	MECH/STORAGE	CORRIDOR	CORRIDOR	CORRIDOR	TAX AGENTS	TECHNICIAN	TECHNICIAN	TECHNICIAN	TECHNICIAN	RECEPTION	TAX PREP STATION	CORRIDOR	ADA TAX PREP STATION	FUTURE OFFICE	FUTURE OFFICE	TECHNICIAN	TAX PREP STATION	TAX PREP STATION	ADA UNISEX RR	JANITOR	CORRIDOR	LOBBY/WAITING
Zone Name																																	
			Zone title turns purple italic for critical zone(s)																														
Zone Tag			130	131	128	129	127	126	123	122	121	124	120	137	137	132	133	134	135	136	148	138	147	139	140	141	142	143	144	145	146	147	148
Occupancy Category			Office space	Office space	Office space	Office space	Office space	Corridors	Restroom	Restroom	Mechanical/ Electrical	Storage - Unoccupied	Corridors	Corridors	Corridors	Office space	Office space	Office space	Office space	Office space	Office space	Office space	Corridors	Break rooms (Office)	Office space	Office space	Office space	Office space	Office space	Office space	Restroom	Occupiable storage rooms for liquids or gels	Corridors	Lobbies
Select from pull-down list:																																	
Floor Area of zone	Az	sf	178	103	86	86	119	127	70	68	43	73	369	293	293	143	91	79	81	83	74	71	60	120	93	72	86	68	68	68	70	69	205
Design population of zone	Pz	P	(default value listed; may be overridden)																														
Design total supply to zone (primary plus local recirculated)	Vbzd	cfm	250	155	115	115	150	75	75	75	200	50	170	150	150	210	160	150	150	150	150	80	75	25	120	90	60	90	75	75	75	50	35	210
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?		Select from pull-down list or leave blank if N/A:																															
Frac. of local recirc. air that is representative of system RA	Er																																

Inputs for Operating Condition Analyzed																																	
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed		Select from pull-down list:	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	MU--EX	MU--EX	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	CSCR/H	MU--EX	MU--EX	CSCR/H	CSCR/H
Zone air distribution effectiveness at conditioned analyzed	Ez		0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Primary air fraction of supply air at conditioned analyzed	Ep																																

Results			
System Ventilation Efficiency	*Ev*		**0.75**
Outdoor air intake required for system	*Vot*	cfm	**953**
Outdoor air per unit floor area	*Vot/As*	cfm/sf	**0.11**
Outdoor air per person served by system (including diversity)	*Vot/Ps*	cfm/p	**22.2**
Outdoor air as a % of design primary supply air	*Ypd*	%	**10%**

Detailed Calculations					
Initial Calculations for the System as a whole					
System primary supply air flow at conditioned analyzed	*Vps*	cfm	= Vpsd Ds	=	8000
Uncorrected OA intake flow rec'd for system	*Vou*	cfm	= Rps *Ps* + Ras As	=	713
Uncorrected OA rec'd as a fraction of primary SA	*Xs*		= Vou / Vps	=	0.09

Initial Calculations for individual zones																																			
Area outdoor air rate	*Ra*	cfm/sf			0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.12	0.06	0.06
People outdoor air rate	*Rp*	cfm/p			5.00	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.00	5.00	0.00	5.00
Total supply air to zone (at condition being analyzed)	*Vdz*	cfm	Vdzd Ds		250	155	115	115	150	75	75	75	200	50	170	150	150	210	160	150	150	150	80	75	25	120	90	60	90	75	75	75	50	35	210
Primary airflow to zone (at condition being analyzed)	*Vpz*	cfm	= Vdz *Ep*	=	250	155	115	115	150	75	75	75	200	50	170	150	150	210	160	150	150	150	80	75	25	120	90	60	90	75	75	75	50	35	210
Breathing zone outdoor airflow	*Vbz*	cfm	= *Rp Ps* + *Ra Az*	=	16	11	10	10	12	8	0	0	0	0	22	18	18	19	10	10	10	10	9	9	4	12	11	9	10	9	9	0	3	4	42
Zone outdoor airflow	*Voz*	cfm	= Vbz / *Ez*	=	20	14	13	13	15	10	0	0	0	0	28	22	22	23	13	12	12	12	12	12	5	15	13	12	13	11	11	0	4	5	53
Fraction of zone supply not directly recirc. from zone	*Fa*		= *Ep* + (1-*Ep*) *Er*	=	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone supply from fully mixed primary air	*Fb*		= *Ep*	=	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone OA not directly recirc. from zone	*Fc*		= 1-(1-*Ez*)(1-*Ep*)(1-*Er*)	=	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
OA fraction required in the supply air to the zone	*Zd*		= Voz / Vdz	=	0.08	0.09	0.11	0.11	0.10	0.13	0.00	0.00	0.00	0.00	0.16	0.15	0.15	0.11	0.08	0.08	0.08	0.08	0.15	0.15	0.20	0.13	0.15	0.19	0.14	0.15	0.15	0.00	0.08	0.15	0.25
OA fraction required in the primary air to the zone	*Zpz*		= Voz / Vpz	=	0.08	0.09	0.11	0.11	0.10	0.13	0.00	0.00	0.00	0.00	0.16	0.15	0.15	0.11	0.08	0.08	0.08	0.08	0.15	0.15	0.20	0.13	0.15	0.19	0.14	0.15	0.15	0.00	0.08	0.15	0.25

System Ventilation Efficiency																																			
Zone Ventilation Efficiency (App A Method)	*Evz*		= (Fa+Fb)Xs-Fc/Zpz[Ep]Fa	=	1.01	1.00	0.98	0.98	0.99	0.96	1.09	1.09	1.09	1.09	0.93	0.94	0.94	0.98	1.01	1.01	1.01	1.01	0.94	0.93	0.89	0.96	0.94	0.90	0.95	0.94	0.94	1.09	1.01	0.94	0.84
System Ventilation Efficiency (App A Method)	*Ev*		= min (*Evz*)	=	**0.75**																														
System Ventilation Efficiency (Table 6.3 Method)	*Ev*		= Value from Table 6.3	=	**0.81**																														

Minimum Outdoor Air Intake Flow					
Outdoor Air Intake Flow required to System	*Vot*	cfm	= Vou / *Ev*	=	**953**
OA intake rec'd as a fraction of primary SA	*Y*		= Vot / Vps	=	**0.12**
Outdoor Air Intake Flow required to System (Table 6.3 Method)	*Vot*	cfm	= Vou / *Ev*	=	881 **71.57**
OA intake rec'd as a fraction of primary SA (Table 6.3 Method)	*Y*		= Vot / Vps	=	0.11 **0.08**

OA Temp at which Min OA provides all cooling					
OAT below which OA Intake flow is @ minimum	Deg F	= ((Tp-dTsf)-(1-Y)(Tr-dTrf))/Y	=	-71	

Potentially Critical Zones

VESTIBULE	LOBBY/WAITING	OFFICE	FRONT COUNTER/ OPEN OFFICE	MANAGER	GENERAL OFFICE	COPY	ELECTRIC	CORRIDOR	AUDITOR	FIELD TECHS	BILLING SPECIALISTS	ADMIN	PROJECT MANAGER	BREAKROOM	KITCHENETTE	SHARED STORAGE	DEPUTY DIRECTOR	STORAGE/ SAFE	CLOSET	ACCOUNT TECHNICIAN	ACCOUNTING GENERALIST	ACCOUNTANT	CORRIDOR	COPY	FUTURE OFFICE	PROCUREMENT & GRANT SPECIALIST	CLOSET	CORRIDOR	KITCHENETTE	UNISEX RR	JANITORIAL	ADA UNISEX RR	SHARED CONFERENCE RM.	ASST. CITY MANAGEMNT	PAYROLL TECHNICIAN	ACCOUNTING GENERALIST 2	ACCTS PAYABLE TECHNICIAN	DIRECTOR OF FINANCE
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	118	214	213	212	210	209	208	215	211	216	217	207	201	205	204	203	202	206	218	219	220	221	222
Corridors	Lobbies	Office space	Office space	Office space	Office space	Corridors	Mechanical/ Electrical	Corridors	Office space	Office space	Office space	Office space	Office space	Break rooms (Office)	Break rooms (Office)	Occupiable storage rooms for dry materials	Office space	Storage - Unoccupied	Storage - Unoccupied	Office space	Office space	Office space	Corridors	Corridors	Office space	Office space	Storage - Unoccupied	Corridors	Break rooms (Office)	Restroom	Occupiable storage rooms for liquids or gels	Restroom	Conference/meeting	Office space	Office space	Office space	Office space	Office space
167	167	92	324	105	94	33	70	390	92	91	196	110	132	113	78	368	127	72	11	96	96	96	385	65	86	98	16	221	67	53	23	74	317	78	91	94	94	213
0	3	1	8	1	1	0	0	0	1	2	2	1	1	1	2	9	1	0	0	1	1	1	0	0	1	1	0	6	2	0	0	0	16	1	1	1	1	3
170	170	75	520	150	120	20	250	295	75	95	245	90	110	160	95	260	160	70	20	120	120	120	240	40	80	80	25	170	110	75	50	75	450	155	160	160	160	230

0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.12	0.12	0.06	0.06	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.06	0.12	0.00	0.12	0.00	0.06	0.06	0.06	0.06	0.06
0.00	5.00	5.00	5.00	5.00	5.00	0.00	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.00	0.00	5.00	5.00	5.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00	5.00	5.00
170	170	75	520	150	120	20	250	295	75	95	245	90	110	160	95	260	160	70	20	120	120	120	240	40	80	80	25	170	110	75	50	75	450	155	160	160	160	230
170	170	75	520	150	120	20	250	295	75	95	245	90	110	160	95	260	160	70	20	120	120	120	240	40	80	80	25	170	110	75	50	75	450	155	160	160	160	230
10	25	11	49	11	11	2	0	23	11	15	22	12	13	44	19	22	13	0	0	11	11	11	23	4	11	11	0	13	20	0	3	0	99	10	10	11	11	18
13	31	13	62	14	13	2	0	29	13	19	27	15	16	54	24	27	16	0	0	13	13	13	29	5	14	14	0	17	26	0	3	0	124	12	13	13	13	22
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.07	0.18	0.08	0.12	0.09	0.11	0.12	0.00	0.10	0.18	0.20	0.11	0.16	0.15	0.34	0.25	0.11	0.10	0.00	0.00	0.11	0.11	0.11	0.12	0.12	0.17	0.17	0.00	0.10	0.23	0.00	0.07	0.00	0.28	0.08	0.08	0.08	0.08	0.10
0.07	0.18	0.08	0.12	0.09	0.11	0.12	0.00	0.10	0.18	0.20	0.11	0.16	0.15	0.34	0.25	0.11	0.10	0.00	0.00	0.11	0.11	0.11	0.12	0.12	0.17	0.17	0.00	0.10	0.23	0.00	0.07	0.00	0.28	0.08	0.08	0.08	0.08	0.10
1.02	0.91	0.91	0.97	1.00	0.98	0.97	1.09	0.99	0.91	0.89	0.98	0.93	0.94	0.75	0.84	0.96	0.99	1.09	1.09	0.98	0.98	0.98	0.97	0.97	0.92	0.92	1.09	0.99	0.86	1.09	1.02	1.09	0.81	1.01	1.01	1.01	1.01	0.99

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REGISTERED PROFESSIONAL ENGINEER
STATE OF OHIO
JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Office Renovation and Addition
City of Huber Heights Tax, Finance & Water Departments
6131 Taylorsville Road, Huber Heights, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
	11/12/25	FOR CONSTRUCTION

DATE	11/12/25
JOB NO.	4278.01
DRAWN	DRH
CHECKED	JDZ

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TITLE
VENTILATION CALCULATIONS

SHEET NO.
H6.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

10/27/2025 11:34:29 AM

ELECTRICAL SPECIFICATIONS

AA. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULLBOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.

AB. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH.

AC. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED.

AD. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.

AE. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE 'RK1' FUSES.

AF. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS. FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.

AG. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.

AH. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.

AI. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

AJ. LIGHT FIXTURES INSTALLED IN LAY-IN CEILING GRIDS SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING GRID. PROVIDE TWO (2) WIRE HANGERS PER FIXTURE. 2'x2' AND 2'x4' LED PANELS SHALL HAVE HANGERS ON OPPOSITE CORNERS.

ELECTRICAL SPECIFICATIONS

A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.

B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE.

C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.

D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.

E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.

F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH/ADJACENT TO TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.

G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.

H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.

I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE

J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT OR MC CABLING AS ALLOWED BELOW. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR 20 AMP CIRCUITS, FINAL CONNECTION TO INDOOR LIGHT FIXTURES, AND DROPS TO RECEPTACLES IN WALLS. MC CABLING IS NOT PERMITTED TO BE USED FOR EXPOSED CONDUIT LOCATIONS. ALL HOME RUN BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. THE HOME RUN CONDUIT SHALL ORIGINATE AT THE PANELBOARD AND SHALL TERMINATE AT THE LAST CONNECTED DEVICE ON THE CIRCUIT OR IN THE CENTER OF THE ROOM/AREA THAT THE CIRCUIT SERVES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.

K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL SETSCREW TYPE.

L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.

M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.

N. ALL EMPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE CABILING USES INCLUDING VOICE/DATA, SECURITY, AV, MONITORING OR ANY OTHER LOW VOLTAGE SYSTEM SHALL HAVE NYLON BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.

O. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.

P. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH MATCHING NYLON COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.

Q. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.

R. RECESSED OR SURFACE MOUNTED LIGHT FIXTURES INSTALLED IN LAY-IN CEILING SHALL BE SUPPORTED AT MINIMUM TWO OPPOSITE CORNERS, INDEPENDENT OF EACH OTHER, FROM STRUCTURES ABOVE WITH #12 STEEL SUPPORT WIRES. DOWNLIGHTS SHALL BE SUPPORTED FROM STRUCTURE WITH MINIMUM ONE #12 STEEL SUPPORT WIRE FROM FIXTURE TO STRUCTURE.

S. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.

T. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.

U. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.

V. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.

W. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.

X. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.

Y. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.

Z. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.

ELECTRICAL LEGEND

OS	OCCUPANCY SENSOR, CEILING MOUNTED.
OR	OCCUPANCY SENSOR CONTROL RELAY.
	DISCONNECT SWITCH
	MOTOR STARTER OR VFD.
	COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL UNIT.
	CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
	CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
	POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
	NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
	EXISTING DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED M.H.).
	TELEPHONE/DATA FLOOR OUTLET, HUBBELL BA-2436 FLUSH FLOOR OUTLET BOX AND SA-3826 COVERPLATE WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CARPET FLANGE WHERE REQUIRED.
AP	WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
F 15	FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
L 15	FIRE ALARM SIGNALING LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
F	FIRE ALARM SENDING STATION (46" M.H.).
S	CEILING MOUNTED SMOKE DETECTOR.
S SIR	DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
R	FIRE ALARM CONTROL OR SUPERVISORY INPUT RELAY AS NOTED. CONTROL RELAY TO HAVE FORM 'C' CONTACT RATED MIN. 5 AMPS AT 120VAC.
W	WATER FLOW SWITCH.
V	FIRE ALARM SUPERVISED VALVE.
SV	SOLENOID VALVE.
RT	DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR.
SD	SMOKE DAMPER
FACP	FIRE ALARM NOTIFICATION APPLIANCE POWER EXTENDER PANEL. PROVIDE 20A-120V CIRCUIT FROM LOCAL EMERGENCY PANEL INDICATED CONNECT TO MAIN FIRE ALARM PANEL FOR NOTIFICATION SIGNALING.
T1	TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
T2	TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2
CR	DOOR ACCESS CONTROL SYSTEM CARD READER (ROUGH-INS, REFER TO DETAIL)
C	CCTV CAMERA.
A	ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
P	PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
	PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).
SC	FLUSH MOUNTED CEILING SPEAKER.
P	PROJECTOR INPUT (18" M.H.).

FIRE ALARM SYSTEM SPECIFICATIONS

A. FURNISH AND INSTALL NEW FIRE ALARM DEVICES TO MATCH AND BE COMPATIBLE WITH THE BUILDING'S EXISTING EDWARDS SYSTEM TECHNOLOGY (EST) FIRE ALARM SYSTEM. THE E.C. SHALL UTILIZE THE BUILDING'S FIRE ALARM VENDOR (OVIS) FOR THE MODIFICATIONS OF THE EXISTING SYSTEM AND SHALL PROVIDE ADDITIONAL EQUIPMENT, AS REQUIRED, AND SYSTEM PROGRAMMING TO SUPPORT ADDITIONAL AV DEVICES. THE E.C. SHALL BE RESPONSIBLE FOR OBTAINING FIRE ALARM PERMITTING AND INSPECTION ACCEPTANCE PER THE LOCAL AHJ. THE E.C. SHALL FOLLOW THE EXISTING BUILDING INSTALLATION METHODS FOR CONDUIT AND CABLING AND DEVICES. PROVIDE BACKBOXES FOR FLUSH/SEMI-FLUSH DEVICES. THE SYSTEM VENDOR/E.C. MAY OPT TO PROVIDE CEILING MOUNTED A/V DEVICES, IN LIEU OF WALL MOUNTED, IF DEEMED ACCEPTABLE BY THE AHJ. DEVICE PLACEMENT PER NFPA 72.

B. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT, BOXES AND COVERS SHALL BE RED COLOR. MINIMUM CONDUIT SIZE SHALL BE 0.75" TRADE SIZE.

C. CONTRACTOR SHALL MATCH EXISTING FIRE ALARM WIRING, RACEWAY, WIRING METHODS AND WIRING COLOR CODING. ALL FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT.

ELECTRICAL LEGEND

	ELECTRICAL CONNECTION REQUIRED.
	EXIT LIGHTING FIXTURE. ARROWS AS INDICATED.
H1 B1 a b	LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
H1 B1	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
W	WIRE RUN IN SURFACE RACEWAY.
NL	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
E	EXISTING WIRE & CONDUIT.
A-1&2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING
	WIRE & CONDUIT UNDERGROUND
J	JUNCTION BOX.
	DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
E	EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
U	20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.).USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN
D	20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" M.H.) TWO-GANG ASSEMBLY. D = DOUBLE DUPLEX.
46" D	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED D = DOUBLE DUPLEX.
GF	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
T	20A-125V TAMPERPROOF RECEPTACLE, NEMA 5-20R, (18" M.H.).
WP/GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2436 FLUSH FLOOR BOX WITH SA-3825 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
20	20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
30	30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
50	50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.)
	SINGLE POLE WALL SWITCH (46" M.H.)
2	TWO POLE WALL SWITCH (46" M.H.).
OS	LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
D	LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
VS	LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.).
DV	0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED, RATED MIN. 800 WATTS.

GENERAL NOTES

THIS PROJECT ENTAILS PHASED WORK COORDINATE PHASING OF ELECTRICAL WORK PER ARCHITECTURAL DOCUMENTS. E.C. SHALL MAINTAIN POWER IN OCCUPIED SPACES AT ALL TIMES ACCORDING TO PHASED CONSTRUCTION SCHEDULE.

SCOPE OF WORK ENTAILS REPLACEMENT OF ALL EXISTING MEP SYSTEMS (HVAC, LIGHTING, CONVENIENCE RECEPTACLE POWER, ETC.) NO SIGNIFICANT CHANGE IN BUILDING LOAD EXCEPT FOR REDUCTION IN LIGHTING LOAD DUE TO REPLACEMENT WITH LED FIXTURES. (ROUGHLY 10KW IN REDUCED BUILDING LOAD)

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / E2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET E2.
A / E1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

ELECTRICAL INDEX OF DRAWINGS

SHEET	DRAWING TITLE
E0.1	LEGEND
E0.2	SCHEDULES
E0.3	MOTOR, STARTERS, DISCONNECTS AND CONTROLS
E0.4	DETAILS
E0.5	PANEL SCHEDULE
E1.1	FIRST FLOOR DEMOLITION PLAN
E1.2	SECOND FLOOR DEMOLITION PLAN
E2.1	FIRST FLOOR LIGHTING PLAN
E2.2	SECOND FLOOR LIGHTING PLAN
E3.1	FIRST FLOOR POWER PLAN
E3.2	SECOND FLOOR POWER PLAN
E4.1	FIRST FLOOR SYSTEMS PLAN
E4.2	SECOND FLOOR SYSTEMS PLAN

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TITLE

LEGEND

SHEET NO.

E0.1

NAUMAN & ZELINSKI LLC.
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Phone: (937) 223-3821

PROJECT # 25029

10/28/2025 3:38:13 PM

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE TYPE: LED	LUMINAIRE TYPE: LOW VOLTAGE	WATTS/ FIXTURE	LUMENS/ COLOR TEMP	FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR: WHITE	TRIM COLOR: BLACK	TRIM COLOR: ALUMINUM	TRIM COLOR: BRONZE	TRIM COLOR: STANDARD	TRIM COLOR: SEE NOTES	MOUNTED (S - SURFACE. R - RECESSED. SM - STEM MTD. WM - WALL MTD. C - CHAIN MTD. UC - UNDER CAB. CS - CLG. SURF.)	SIZE: WIDTH	SIZE: LENGTH	SIZE: DEPTH	SIZE: DIAMETER	SEE NOTES
B1	•		30	3600 LUMENS / 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE, METALUX	MATTE WHITE LENS	•						R(GRID)	24	24	2		1,4
B1E	•		30	3600 LUMENS / 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE, METALUX	MATTE WHITE LENS	•						R(GRID)	24	24	2		1,4,5
C1	•		40	5000 LUMENS / 4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT GZ10 40K	COLUMBIA, DAYBRITE, METALUX	FLAT DIFFUSE LENS	•						WM/S/SM	3	48	3		
C1E	•		40	5000 LUMENS / 4000K		LITHONIA# CLX L48 5000LUM SEF FDL MVOLT GZ10 40K	COLUMBIA, DAYBRITE, METALUX	FLAT DIFFUSE LENS	•						WM/S/SM	3	48	3		5
D1	•																			
F1	•		14	1100 LUMENS	120	LITHONIA# WF6 - SWW5 - 90CRI - MW	GREEN CREATIVE, NORA, HALO	FLAT WHITE LENS	•						R			1.5	6	1,4
F2	•		25	2000 LUMENS / 4000K	120	LITHONIA# LDN6 - AL02 - 40K - LO6 - NR - TRN - MVOLT - UGZ1	PRESCOLITE, LIGHTOLIER, HALO	REGRESSED WHITE BAFFLE	•						R			4	6	1,4
K1	•		15	1000 LUMENS / 4000K	120	WEDGE2 LED - P1 - 40K - 80CRI - T3M - MVOLT SRM	HUBBLE, GARDCO, MCGRAW														
L1	•		33	3000 LUMENS / 4000K	120	LITECONTROL # 4L - P - ID - STD - 6' - 06 - BAT - C1 - 40K9 - 500 - 750 D01 2C - UNV -...	NEO-RAY, LEDALITE	MATTE WHITE LENS	•						SUSPENDED					3
UC1	•		10	500 LUMENS / 4000K	120	LITHONIA# UPLD - 18IN - 30K - 90CRI - SWR - WH	CONTECH, TRACELITE	MATTE WHITE LENS	•						UC (OR SHELF)		18			1,2
REM	•		5			LITHONIA #ELA-Q	COMPASS, CHLORIDE, SURE-LITES	EXTERIOR REMOTE LAMP HEAD				•								
X1	•		5W		120	LITHONIA # LQM-LED-R-HO-M6	COMPASS, CHLORIDE, SURE-LITES	LED /EXIT RED LETTERS ON WHITE INTEGRAL BATTERIES SINGLE FACE	•						WM OR CLG SURFACE					
X2	•		5W		120	LITHONIA # LQM-LED-R-HO-M6	COMPASS, CHLORIDE, SURE-LITES	LED /EXIT RED LETTERS ON WHITE INTEGRAL BATTERIES DOUBLE FACE							WM OR CLG SURFACE					

NOTES:

1. SWITCHABLE COLOR TEMPERATURE.
2. INTEGRAL ROCKER SWITCH (HARD WIRED CONNECTION), WIRED AHEAD OF LOCAL SWITCHING.
3. COORDINATE SUSPENSION HEIGHT AND LOCATION WITH ARCHITECT.
4. ADJUSTABLE LUMEN OUTPUT.
5. FIXTURE TO HAVE INTEGRAL BATTERY BACKUP TO MAINTAIN MINIMUM 1000 LUMENS OF 90 MINUTES.

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TITLE
SCHEDULES

SHEET NO.
E0.2

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204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 203-3821

PROJECT # 25029

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MOTORS, STARTERS, DISCONNECTS & CONTROLS

MOTOR											STARTERS												DISCONNECT MEANS												CONTROL				FEEDER					
			CHARACTERISTICS								TYPE					LOCATION							TYPE					LOCATION																
MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH	480V-1PH	480V-3PH	LOCATION	NEMA SIZE	MANUAL	MAGNETIC	BUILT-IN MOTOR O/L	VFD	ECM*	NEAR MOTOR	MOTOR CONT. CNTR	EQUIP. CONT. PANEL	ROOM NUMBER	SEE NOTE	FURNISHED BY	DISC. SWITCH	MANUAL STARTER	RECEPTACLE	BREAKER	FUSIBLE	NEAR MOTOR	MOTOR CONT. PANEL	EQUIP. CONT. PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	INTERLOCK W/ DAMPER BY E.C.	MANUAL AT STARTER	INTEGRAL W/ EQUIP.	BY H.C.	SEE NOTE	NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE
AHU-S		SUPPLY	37.4 MCA 50 MOCP		•				MECH RM																						ES				•		3	8	8	.75	
AHU-R		RETURN	12.8MCA 15 MOCP		•				MECH RM																						ES				•		3	10	10	.75	
B1		BOILER 1	12 FLA	•					MECH RM													•									EC				•		2	10	10	.75	
B2		BOILER 2		•					MECH RM													•									EC				•		2	10	10	.75	
CU-1		CONDENSING UNIT	143 MCA 175 MOCP		•				ON GRADE													•									EC				•		3	3/0	6	1.5	1
HWP1		HOT WATER PUMP 1	3/4 HP	•					MECH RM													•									EC				•		2	12	12	.5	
HWP2		HOT WATER PUMP 2	3/4 HP	•					MECH RM													•									EC				•		2	12	12	.5	
HWP3		HOT WATER PUMP 3	1 HP		•				MECH RM													•									EC				•		3	12	12	.75	
HWP4		HOT WATER PUMP 4	1 HP		•				MECH RM													•									EC				•		3	12	12	.75	
HWP5		HOT WATER PUMP 5	1/12 HP	•					MECH RM													•									EC				•		2	12	12	.5	
UH1		UNIT HEATER	2 KW	•					MECH RM													•									EC				•		2	10	10	.75	
CUH1		CABINET UNIT HEATER	1KW	•					MULTIPLE													•									EC				•		2	12	12	.5	
EF1		EXHAUST FAN	1/6 HP	•					FIRST FLR HALL													•									EC				•		2	12	12	.5	
EF2		EXHAUST FAN	1/6 HP	•					RM 131													•									EC				•		2	12	12	.5	
EF3		EXHAUST FAN	1/6 HP	•					SECOND FLR HALL													•									EC				•		2	12	12	.5	
WH1		WATER HEATER	4.5 KW	•		•			RM 124													•									EC				•		3	10	10	.75	
WH2		WATER HEATER	2.5 KW	•		•			RM 203													•									EC				•		3	12	12	.75	

* REFER TO ECM CONTROL DIAGRAM(S) ON HVAC DRAWINGS, WHEN NOTED, FOR INTERLOCK WIRING AND AUX POWER REQUIREMENTS.

NOTES:

1. REFER TO SWITCHBOARD SCHEDULE FOR CONDUCTORS

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TITLE
MOTOR, STARTERS, DISCONNECTS AND CONTROLS

SHEET NO.
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NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 25029

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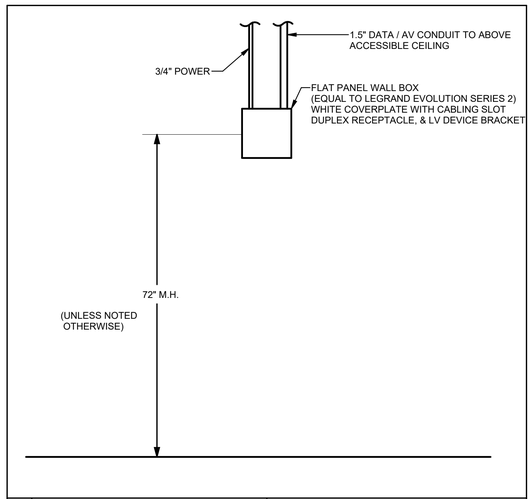
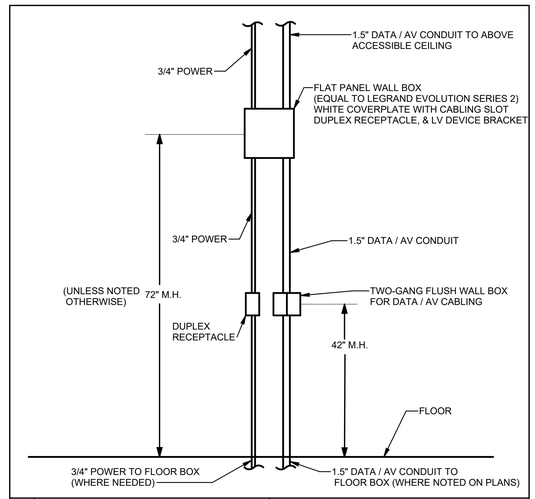
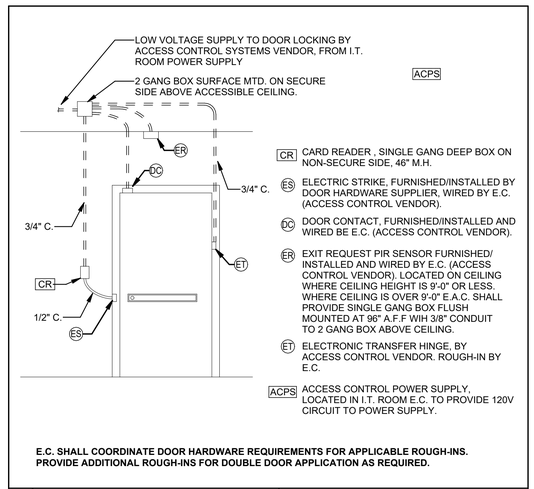


1 TV WALL BOX DETAIL - T1
N.T.S



2 TV WALL BOX DETAIL - T2
N.T.S



E.C. SHALL COORDINATE DOOR HARDWARE REQUIREMENTS FOR APPLICABLE ROUGH-INS. PROVIDE ADDITIONAL ROUGH-INS FOR DOUBLE DOOR APPLICATION AS REQUIRED.

7 **TYPICAL CARD READER INSTALLATION**
N.T.S.

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TITLE
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SHEET NO.
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PROJECT # 25029

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Switchboard: P1 "EXISTING"

Location: Space 37 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** M.L.O
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: Type 1 | **MCB Rating:** 600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Wire Size	Feed	Cond. Size
1	EX. A1	3	200 A	200 A	19596 VA	3-#4/0, 1-#4/0, 1-#6	EX.	EX.
2	EX. A2	3	200 A	200 A	27229 VA	3-#4/0, 1-#4/0, 1-#6	EX.	EX.
3	B1 - B2	3	200 A	200 A	18539 VA	3-#4/0, 1-#4/0, 1-#6	CU	2.5
4	EX. Elevator	3	200 A	100 A	24000 VA	--	EX.	EX.
5	CU-1	3	200 A	175 A	1000 VA	3-#3/0, 1-#6	CU	1.25
6	SPD	3	100 A	60 A	0 VA	--		
7	Panel "M"	3	200 A	200 A	16220 VA	3-#4/0, 1-#4/0, 1-#6	CU	2.25
8								
9								
10								
11								
12								
			Total Conn. Load:		106584 VA			
			Total Amps:		296 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	6923 VA	100.00%	6923 VA		
Motor	8000 VA	103.13%	8250 VA	**Total Conn. Load:**	106584 VA
Other	6000 VA	100.00%	6000 VA	**Total Est. Demand:**	90954 VA
Power	6900 VA	100.00%	6900 VA	**Total Conn. Current:**	296 A
Receptacles	41760 VA	61.97%	25880 VA	**Total Est. Demand...**	252 A
Spare	37008 VA	100.00%	37008 VA		

Notes:

Branch Panel: M

Construction: New | **System:** Normal Power

LOCATION: Space 50 | **MOUNTING:** Surface | **A.I.C RATING**
SUPPLY FROM: P1 | **ENCLOSURE:** Type 1 | **MAINS TYPE:** M.L.O
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 225 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	AHU-R	15 A	3		333 VA	333 VA			3	50 A	AUH-S	2
3	--	--	--			333 VA	333 VA		--	--	--	4
5	--	--	--				333 VA	333 VA	--	--	--	6
7	HWP-1	20 A	1		1000 VA	1000 VA			1	20 A	HWP-2	8
9	B-1	20 A	1			1000 VA	1000 VA		1	20 A	B-2	10
11	HWP-3	20 A	3				333 VA	333 VA	3	20 A	HWP-4	12
13	--	--	--		333 VA	333 VA			--	--	--	14
15	--	--	--			333 VA	333 VA		--	--	--	16
17	HWP-5	20 A	1				1000 VA	1000 VA	1	20 A	Motor	18
19	Motor	20 A	1		1000 VA	720 VA			1	20 A	Receptacles	20
21	Other	20 A	1			1500 VA	1500 VA		1	20 A	Other	22
23		20 A	1				1000 VA	0 VA	1	20 A	Other	24
25	Lighting	20 A	1		500 VA							26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
		Total Load:			5553 VA	6333 VA	4333 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	500 VA	100.00%	500 VA		
Motor	7000 VA	103.57%	7250 VA	**Total Conn. Load:**	16220 VA
Other	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	16470 VA
Power	5000 VA	100.00%	5000 VA	**Total Conn. Current:**	45 A
Receptacles	720 VA	100.00%	720 VA	**Total Est. Demand Current:**	46 A

Branch Panel: A1

Construction: Exisitng | **System:** Normal Power

LOCATION: Space 37 | **MOUNTING:** Surface | **A.I.C RATING**
SUPPLY FROM: P1 | **ENCLOSURE:** Type 1 | **MAINS TYPE:** M.L.O
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 150 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	EX.STAIRHTR	30 A	3		1666 VA	538 VA			1	20 A	Lighting	2
3	--	--	--			1666 VA	495 VA		1	20 A	Lighting	4
5	--	--	--				1666 VA	927 VA	1	20 A	Lighting	6
7	Receptacles	20 A	1		1800 VA	628 VA			1	20 A	Lighting	8
9	Receptacles	20 A	1			180 VA	0 VA		1	20 A	T1	10
11	Receptacles	20 A	1				1260 VA	1080 VA	1	20 A	Kit Rec	12
13	T1	20 A	1		0 VA	1620 VA			1	20 A	112 Rec	14
15	EM CIRCUIT	20 A	1			0 VA	360 VA		1	20 A	Copier	16
17	Copier	20 A	1				360 VA	0 VA	1	20 A	ADA Door	18
19	104 Rec	20 A	1		1620 VA	900 VA			1	20 A	104 Rec	20
21	105 Rec	20 A	1			1620 VA	0 VA		1	20 A	T1	22
23	103 Rec	20 A	1				720 VA	180 VA	1	20 A	Rec	24
25	EX. FIRE PNL	20 A	1	1	0 VA	180 VA			1	20 A	Receptacles	26
27	Micro	20 A	1			180 VA						28
29												30
31				2								32
33				2								34
35				2								36
37												38
39	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	42
		Total Load:			8949 VA	4501 VA	6191 VA					

NOTES:

1. EXISTING CIRCUIT TO REMAIN. 2. REPLACE EXISTING BREAKER(S) WITH NEW. 3. REPLACE EXISTING MULTI-POLE BREAKER WITH EXISTING 20A-1P.

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2542 VA	100.00%	2542 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	19596 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	18566 VA
Receptacles	12060 VA	91.46%	11030 VA	**Total Conn. Current:**	54 A
Spare	4998 VA	100.00%	4998 VA	**Total Est. Demand Current:**	52 A

Branch Panel: B1

Construction: New | **System:** Normal Power

LOCATION: STORAGE / SAFE / ... | **MOUNTING:** Flush | **A.I.C RATING**
SUPPLY FROM: P1 | **ENCLOSURE:** Type 1 | **MAINS TYPE:** DOUBLE MAIN LUGS
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 225 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Lighting	20 A	1		1238 VA	347 VA			1	20 A	Lighting	2
3	T1	20 A	1			0 VA	180 VA		1	20 A	Copier	4
5	Copier	20 A	1				180 VA	900 VA	1	20 A	Conf Rm	6
7	216 Rec	20 A	1		1800 VA	1080 VA			1	20 A	222 Rec	8
9	Acct Rec	20 A	1			1440 VA	1080 VA		1	20 A	219 Rec	10
11	Kitch Rec	20 A	1				360 VA	720 VA	1	20 A	210 Rec	12
13	209 Rec	20 A	1		720 VA	900 VA			1	20 A	208 Rec	14
15	Flr Boxes	20 A	1			360 VA	540 VA		1	20 A	Rest Rm	16
17	IT Rm	20 A	1				360 VA	360 VA	1	20 A	IT Rm	18
19	214 Rec	20 A	1		900 VA	180 VA			1	20 A	Frige	20
21	Micro	20 A	1			180 VA	1000 VA		1	20 A	EF-3	22
23	Ex. Stair Hrt	20 A	3				500 VA	720 VA	1	20 A	Corr Recs	24
25	--	--	--		500 VA	500 VA			3	20 A	Ex. Stair Hrt	26
27	--	--	--			500 VA	500 VA		--	--	--	28
29								500 VA	--	--	--	30
31												32
33												34
35												36
37												38
39												40
41												42
		Total Load:			8160 VA	5780 VA	4600 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1583 VA	100.00%	1583 VA		
Motor	1000 VA	125.00%	1250 VA	**Total Conn. Load:**	18539 VA
Other	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	17489 VA
Power	360 VA	100.00%	360 VA	**Total Conn. Current:**	51 A
Receptacles	12600 VA	89.68%	11300 VA	**Total Est. Demand Current:**	49 A

Branch Panel: A2

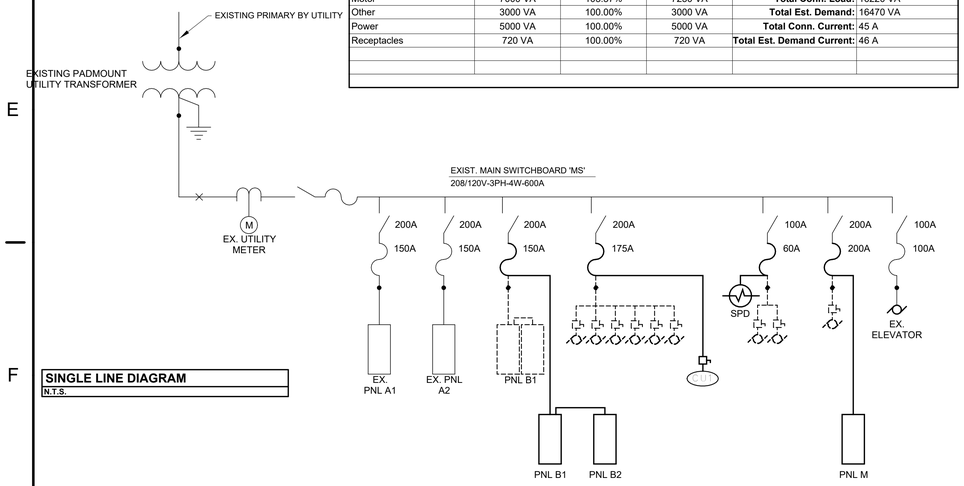
Construction: Exisitng | **System:** Normal Power

LOCATION: Space 37 | **MOUNTING:** Surface | **A.I.C RATING**
SUPPLY FROM: P1 | **ENCLOSURE:** Type 1 | **MAINS TYPE:** M.L.O
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 150 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	EX.STAIR HTR	30 A	3	1	1666 VA	0 VA			3	1	T1	2
3	--	--	--			1666 VA	1800 VA		3	1	Receptacles	4
5	--	--	--				1666 VA	666 VA	1	2	EX.EXT LGTS	6
7	EX.ELEV...	30 A	2	1	500 VA	666 VA			--	--	--	8
9	--	--	--			500 VA	1620 VA		1	20 A	Receptacles	10
11	EX.ELEV PIT	20 A	1	1			500 VA	1080 VA	1	20 A	Receptacles	12
13	Receptacles	20 A	1		900 VA	180 VA			1	20 A	Receptacles	14
15	Spare	20 A	1	1		0 VA	180 VA		1	20 A	EX. ELEV REC	16
17	Receptacles	20 A	1				360 VA	180 VA	1	20 A	Receptacles	18
19	Receptacles	20 A	1		180 VA	1260 VA			1	20 A	Receptacles	20
21	Receptacles	20 A	1			1260 VA	1800 VA		1	20 A	Receptacles	22
23	Receptacles	20 A	1				1440 VA	180 VA	1	20 A	Receptacles	24
25	Receptacles	20 A	1		1440 VA	1260 VA			1	20 A	Receptacles	26
27	Receptacles	20 A	1			540 VA	701 VA		1	20 A	Lighting	28
29	Lighting	20 A	1				955 VA	645 VA	1	20 A	Lighting	30
31	Receptacles	20 A	1		900 VA	0 VA			1	20 A	Other	32
33						0 VA			2	20 A	Other	34
35	Power	20 A	1				540 VA	0 VA	--	--	--	36
37	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1				0 VA	0 VA	1	20 A	EX. EXT LGTS	42
		Total Load:			8952 VA	10066 VA	8211 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	2300 VA	100.00%	2300 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	27229 VA
Power	540 VA	100.00%	540 VA	**Total Est. Demand:**	24039 VA
Receptacles	16380 VA	80.53%	13190 VA	**Total Conn. Current:**	76 A
Spare	8010 VA	100.00%	8010 VA	**Total Est. Demand Current:**	67 A



SINGLE LINE DIAGRAM
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PANEL SCHEDULE

SHEET NO.
E0.5

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PROJECT # 25029

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CONSTRUCTION NOTES

1. MAINTAIN EXISTING ELECTRIC SERVICE, UTILITY METERING, SWITCHBOARD, ETC.
2. RETAIN EXISTING PANELS A1 & A2 AND FEEDERS FROM MAIN SERVICE SWITCHBOARD. REFER TO PANEL SCHEDULES FOR EXISTING LOADS TO REMAIN.
3. RETAIN EXISTING POWER/CONVENIENCE RECEPTACLES IN ELECTRIC SERVICE ROOM. DISCONNECT POWER TO AIR HANDLING UNITS TO ACCOMMODATE REMOVAL BY OTHERS.
4. RETAIN ALL ELEVATOR POWER, CAB LIGHTING AND ASSOCIATED ELEVATOR POWER CONTROLS AND FIRE ALARM FOR ELEVATOR MACHINE ROOM AND ELEVATOR CAB.
5. DISCONNECT AND REMOVE POWER FROM OUTDOOR A/C UNITS, ASSOCIATED DISCONNECTS, ETC. BACK TO MAIN SERVICE SWITCHBOARD.
6. EXISTING FIRE ALARM PANEL TO REMAIN ACTIVE DURING CONSTRUCTION.
7. THE E.C. SHALL COORDINATE TEMPORARY PATHWAY, EGRESS, EXIT AND EMERGENCY LIGHTING FOR ACCESS TO 2ND FLOOR DURING COURSE OF FIRST FLOOR DEMO AND NEW WORK CONSTRUCTION.
8. RETAIN CIRCUITRY TO EXISTING UNIT HEATERS IN STAIR WELL.

FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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TITLE
FIRST FLOOR DEMOLITION PLAN

SHEET NO.
E1.1

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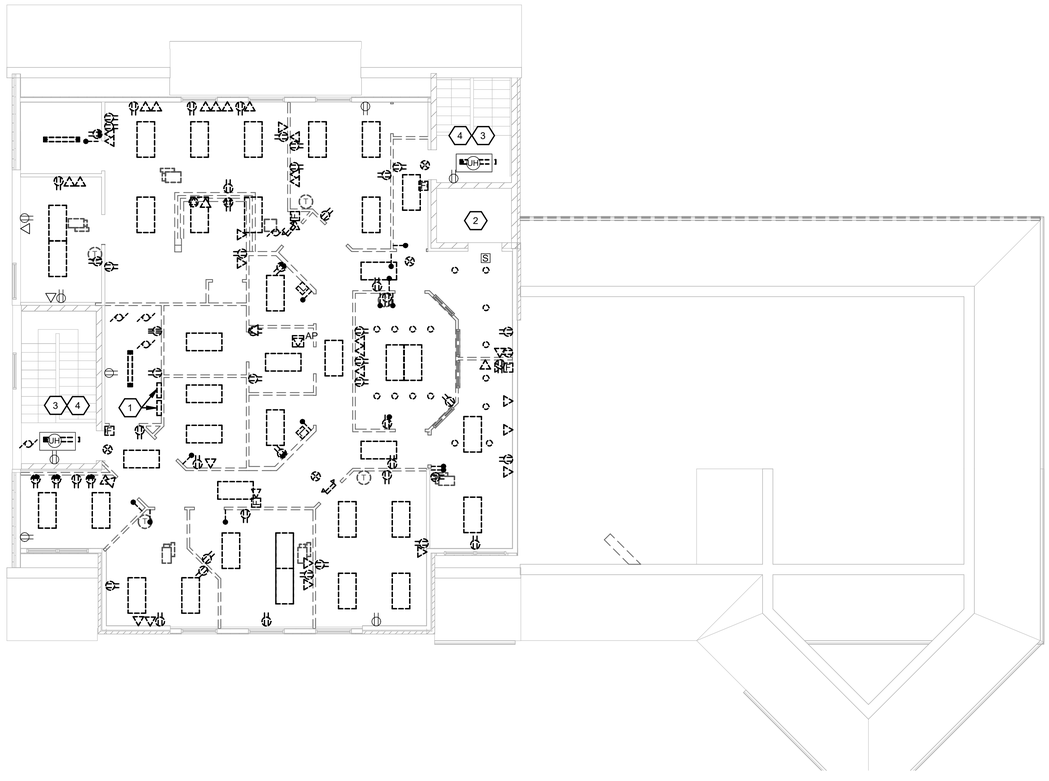
DEMILITION NOTES

1. PANEL 'B1' (TWO 30 CIRCUIT PANELS) TO BE DEMOLISHED, RETAIN EXISTING FEEDER AT FIRST FLOOR LEVEL TO SPLICE EXTEND TO NEW PANEL(S) LOCATION ABOVE.
2. MAINTAIN ALL EXISTING POWER AND LIGHTING FOR ELEVATOR, CAB LIGHTS, PIT LIGHTS, RECEPTACLE, SMOKE DETECTION, ETC
3. THE E.C. SHALL COORDINATE TEMPORARY PATHWAY, EGRESS, EXIT AND EMERGENCY LIGHTING FOR ACCESS TO 2ND FLOOR DURING COURSE OF FIRST FLOOR DEMO AND NEW WORK CONSTRUCTION.
4. RETAIN POWER TO EXISTING STAIRWELL HEATER(S) AND LIGHTS.



SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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TITLE
SECOND FLOOR DEMOLITION PLAN

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E1.2

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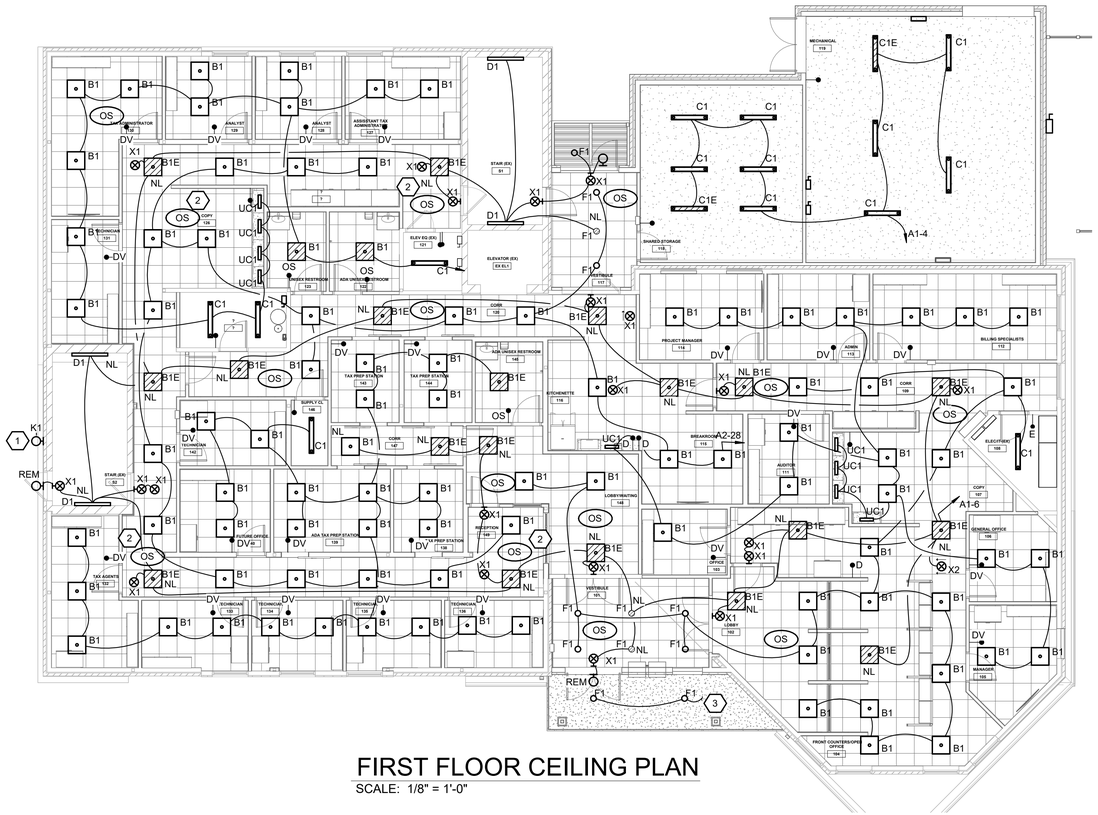
GENERAL NOTES

A. CONNECT ALL EXIT/EMERGENCY EGRESS LIGHTING AHEAD OF LOCAL CONTROLS.

CONSTRUCTION NOTES

1. CONNECT NEW EXTERIOR LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT IN EXISTING LOCATION.
2. LINK CORRIDOR OCCUPANCY SENSORS TO SERVE AS SINGLE ZONE.
3. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT.



FIRST FLOOR CEILING PLAN

SCALE: 1/8" = 1'-0"

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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FIRST FLOOR LIGHTING PLAN

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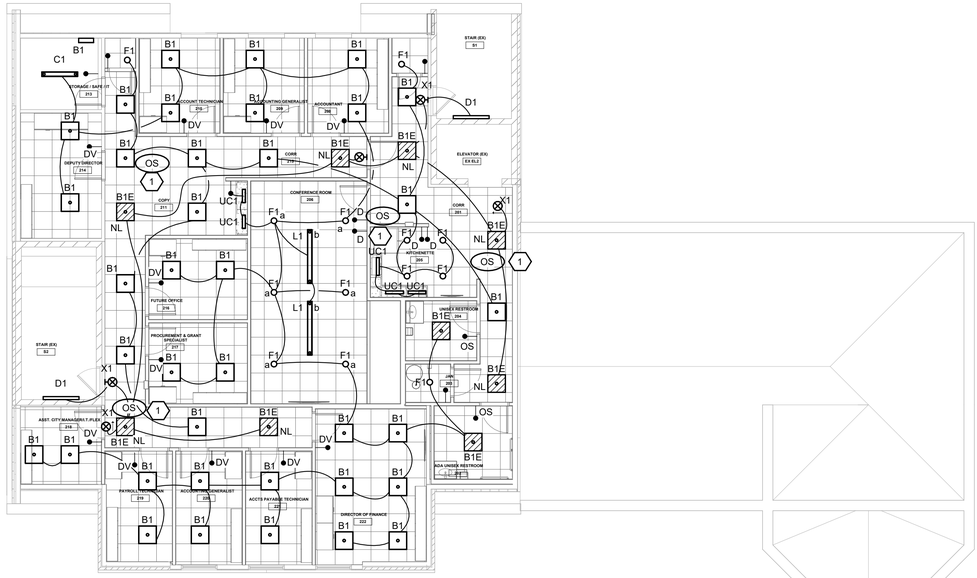
CONSTRUCTION NOTES

1. LINK CORRIDOR OCCUPANCY SENSORS TO SERVE AS SINGLE ZONE.



SECOND FLOOR CEILING PLAN

SCALE: 1/8" = 1'-0"

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

SCALE: 1/8"=1'-0"

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SECOND FLOOR LIGHTING PLAN

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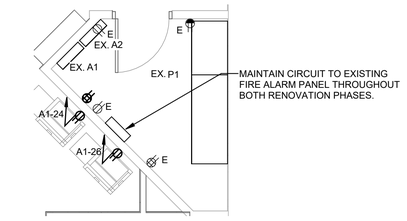
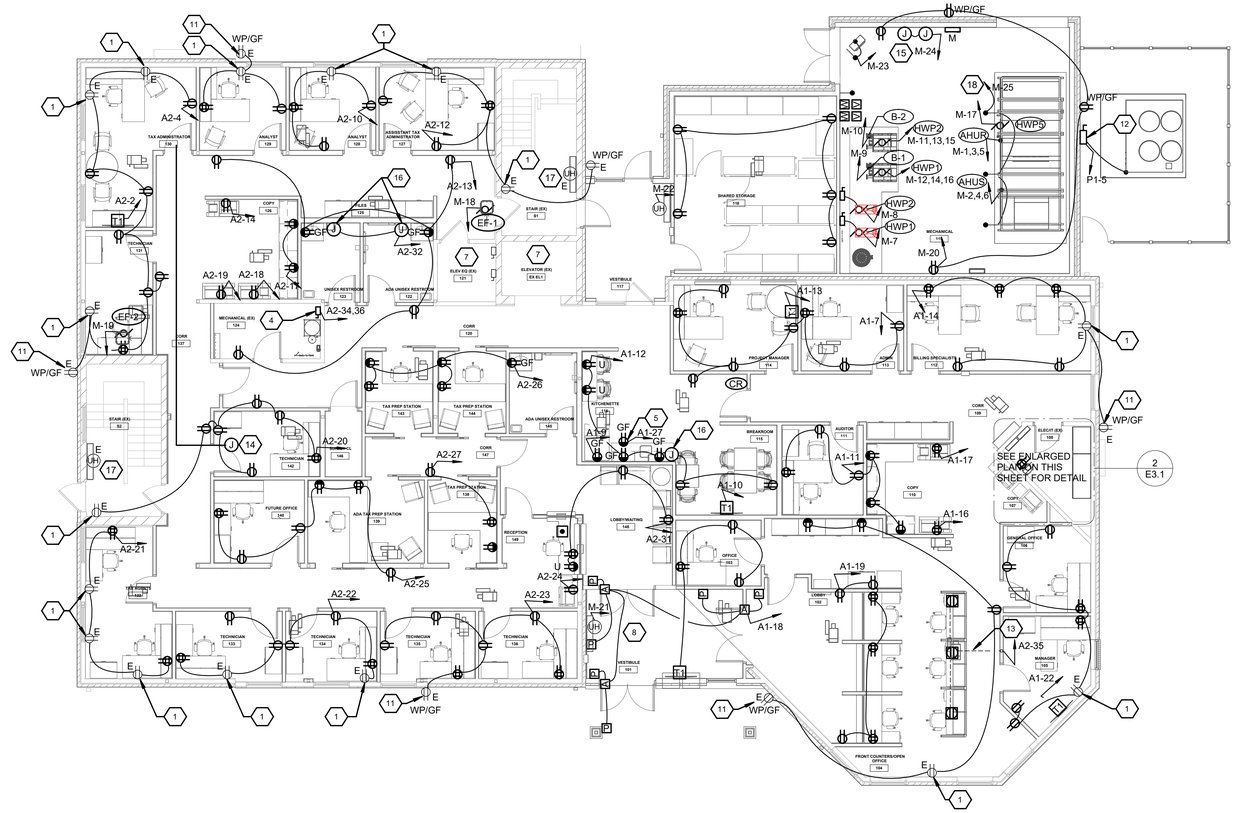


ENLARGED ELECTRIC ROOM PLAN

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



FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. UTILIZE EXISTING BACK BOX. REPLACE EXISTING RECEPTACLE(S) AND COVERPLATE(S) TO MATCH NEW. RE-FEED FROM NEW ROOM RECEPTACLE CIRCUIT AS SHOWN.
2. FIRE ALARM REMOTE ANNUNCIATOR.
3. MAIN GROUND BAR.
4. PROVIDE FUSED DISCONNECT FOR 208V POWER CONNECTION TO WATER HEATER. 120V POWER CONNECTION TO RECIRC PUMP. REFER TO DETAIL 7 ON SHEET P3.1.
5. COORDINATE RECEPTACLE MOUNTING HEIGHT, LOCATION, WITH MICROWAVE SHELF. REFER TO ARCHITECTURAL ELEVATIONS.
6. COORDINATE RECEPTACLE AND DATA MOUNTING HEIGHTS AND LOCATIONS WITH CASEWORK ELEVATIONS.
7. RETAIN EXISTING POWER TO ELEVATOR CONTROLLER, CAB LIGHTS SERVICE RECEPTACLE, ETC.
8. PROVIDE 120V 1PH POWER FOR DOOR OPERATOR.
9. PROVIDE DEDICATED 20A-120V CIRCUIT TO FM FIRE SUPPRESSION SYSTEM PANEL. PROVIDE FIRE ALARM MONITOR RELAY FOR SUPPRESSION SYSTEM COORDINATE REQUIREMENTS WITH SUPPRESSION SYSTEM SUPPLIER.
10. PROVIDE 120V 30A RECEPTACLE FOR RACK/UPS. FINAL COORDINATE LOCATION/TYPE WITH OWNER/EQUIPMENT SUPPLIER.
11. CONNECT EXISTING EXTERIOR WATERPROOF RECEPTACLES TO ADJACENT INTERIOR RECEPTACLE CIRCUIT AS SHOWN.
12. 208V-3PH FUSED DISCONNECT SWITCH TO SERVE CONDENSING UNIT.
13. SAW CUT SLAB AND PROVIDE .75" CONDUIT FOR POWER AND 1.25" CONDUIT FOR SYSTEMS CABLING BETWEEN FLOOR BOXES AND UP WALL SHOWN TO ABOVE ACCESSIBLE CEILING.
14. PROVIDE JUNCTION BOX TO SPLICE/ EXTEND SECOND FLOOR PANEL FEEDER TO NEW LOCATION, REFER TO SECOND FLOOR PLAN.
15. PROVIDE 120V CIRCUIT TO HVAC CONTROL PANEL(S).
16. PROVIDE 120V CIRCUIT TO PAPER TOWEL DISPENSER AS SHOWN ON PLAN.
17. RETAIN EXISTING CIRCUIT TO EXISTING STAIRWELL HEATER.
18. PROVIDE THREE 20A SWITCHES AND ONE 120V CIRCUIT FOR AHU UV LIGHTS, REFRIGERANT MONITOR AND UNIT INTERIOR WORKING LIGHTS.

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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TITLE
FIRST FLOOR POWER PLAN

SHEET NO.
E3.1

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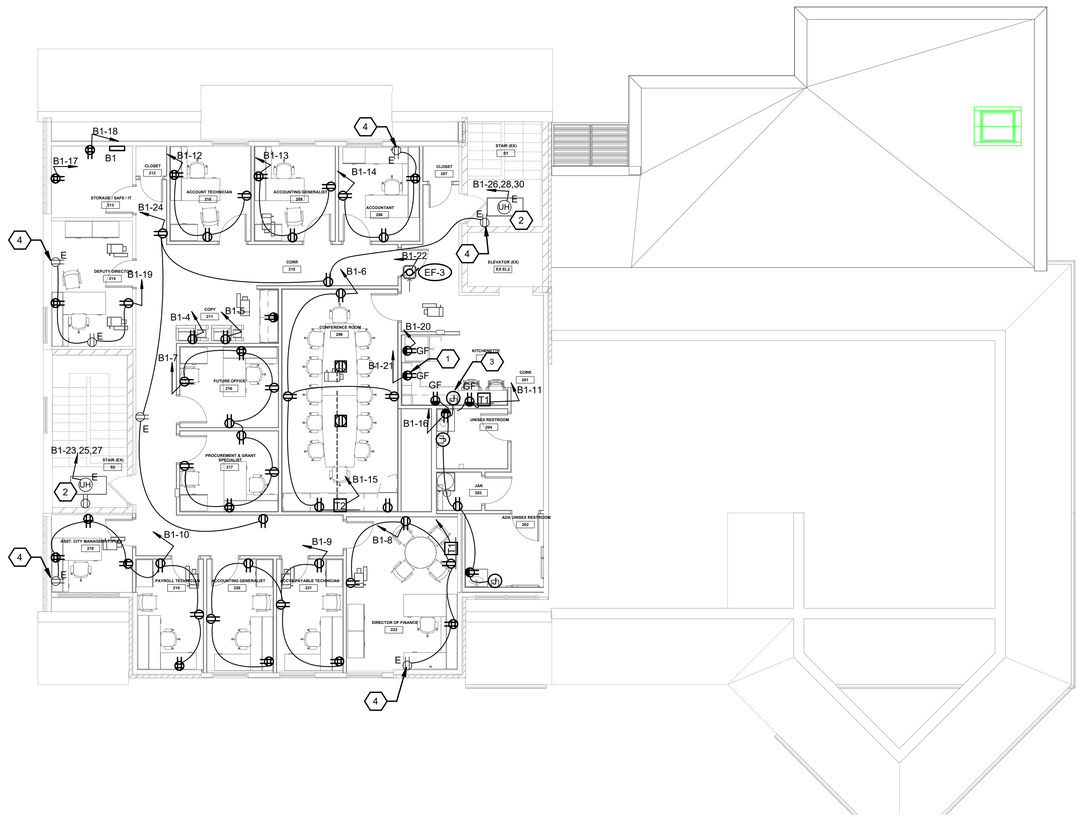
GENERAL NOTES

A. COORDINATE SECOND FLOOR PENETRATIONS AND CONDUIT WORK AT FLOOR LEVEL BELOW WITH ARCHITECT / OWNER, WORK PREFORMED AFTER NORMAL BUSINESS HOURS

CONSTRUCTION NOTES

1. COORDINATE RECEPTACLE MOUNTING HEIGHT, LOCATION, WITH MICROWAVE SHELF. REFER TO ARCHITECTURAL ELEVATIONS.
2. RECONNECT EXISTING STAIRWELL HEATERS TO NEW CIRCUIT AS SHOWN ON PLAN.
3. PROVIDE 120V CIRCUIT TO PAPER TOWEL DISPENSER AS SHOWN ON PLAN.
4. UTILIZE EXISTING BACK BOX, REPLACE EXISTING RECEPTACLE(S) AND COVERPLATE(S) TO MATCH NEW. RE-FEED FROM NEW ROOM RECEPTACLE CIRCUIT AS SHOWN.



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SECOND FLOOR POWER PLAN

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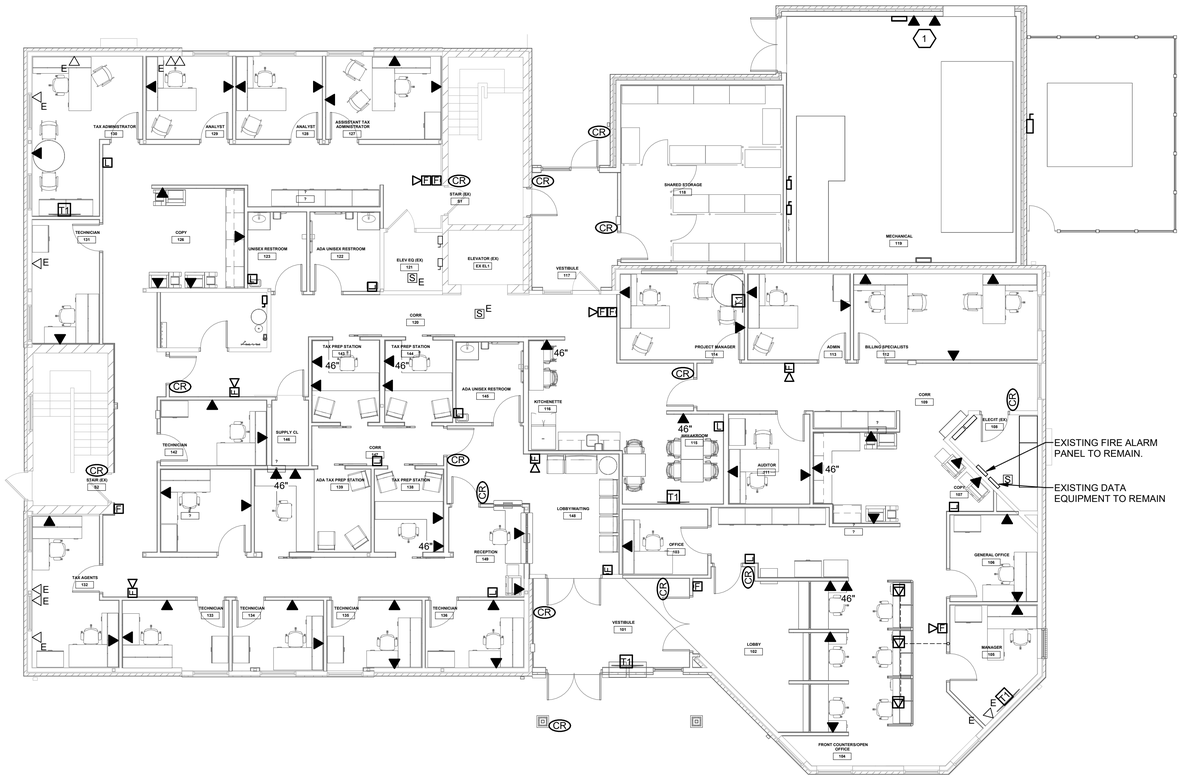
CONSTRUCTION NOTES

1. PROVIDE TWO WALL BOXES MOUNTED AT 46" M.H. FOR DATA CONNECTION TO HVAC CONTROL PANELS.



FIRST FLOOR SYSTEMS PLAN

SCALE: 1/8" = 1'-0"

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

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TITLE
FIRST FLOOR SYSTEMS PLAN

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E4.1

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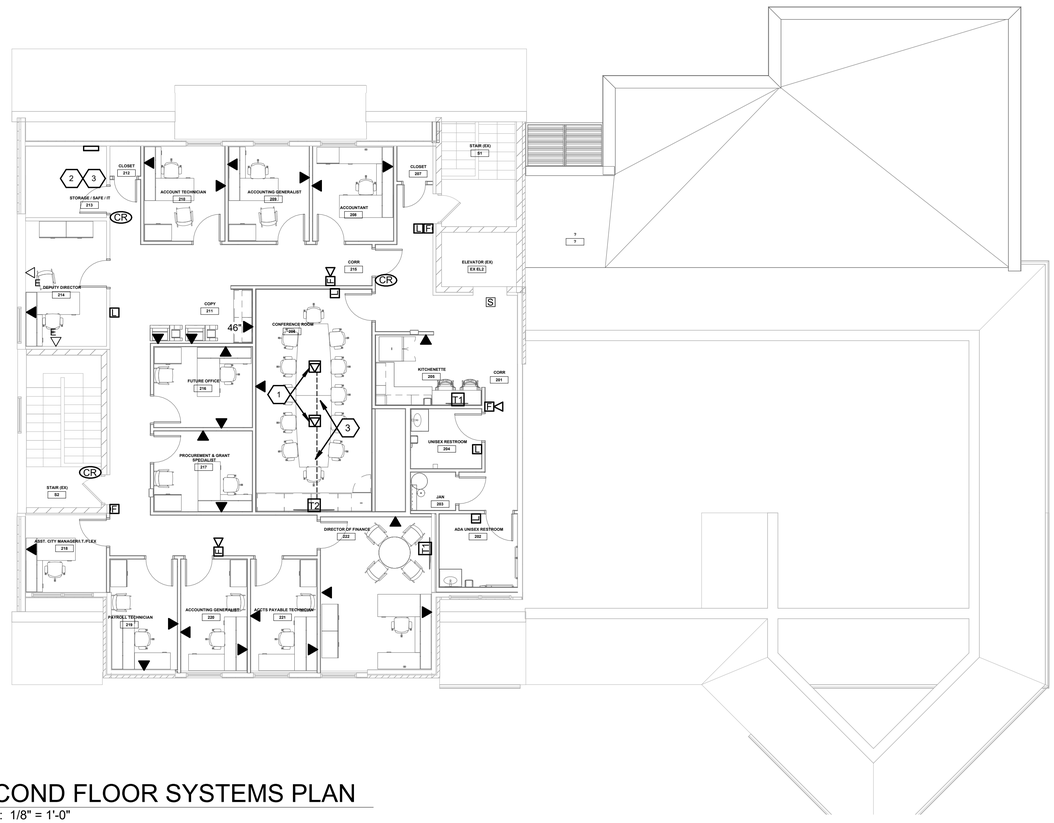
CONSTRUCTION NOTES

1. PROVIDE TWO GANG FLOOR BOX WITH 1.25" CONDUIT TO TV WALL BOX FOR A/V CABLING (BY OWNER). COORDINATE LOCATIONS AND COVER PLATES WITH OWNER.
2. PROVIDE 3/4" PLYWOOD, 2 WALLS, FOR NEW DATA, IT EQUIPMENT.
3. PROVIDE 1.25"C. IN FLOOR FOR DATA CONNECTION.



SECOND FLOOR SYSTEMS PLAN

SCALE: 1/8" = 1'-0"

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TITLE
SECOND FLOOR SYSTEMS PLAN

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