St. Joseph University Catholic Parish

Roman Catholic Archdiocese of Indianapolis

113 South 5th Street Terre Haute, Indiana 47807

New Parish Hall

2024.012

September 1, 2026

Contract Documents

entheos ARCHITECTS

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General Notes

A. NOTHING SET FORTH IN THESE DRAWINGS SHALL RELEASE THE CONTRACTOR OF RESPONSIBILITY TO: (1) PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH ALL OTHER SUBCONTRACTORS AND TRADES, (2) IDENTIFY AND RESOLVE DEVIATIONS FROM THE REQUIREMENTS OF THESE DOCUMENTS, OR (3) ALERT THE ARCHITECT TO ERRORS OR OMISSIONS CONTAINED THEREIN.

B. ALL DRAWINGS IN THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED FROM THE ORIGINAL CONSTRUCTION DRAWINGS FOR THE BUILDING, FROM EXISTING FIELD CONDITIONS AND MEASUREMENTS, AND FROM ASSUMPTIONS BASED UPON VISUAL OBSERVATION. THE CONTRACTOR AND ALL ITS SUBCONTRACTORS SHALL VERIFY IN THE FIELD ALL NEW AND EXISTING APPLICABLE CONDITIONS, DIMENSIONS, RELATIONSHIPS, ETC. SHOWN IN THESE DRAWINGS AND AS PERTINENT TO THE INTENT OF THESE DRAWINGS. ANY DISCREPANCY DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY, OR RELATED TO, SUCH DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH, OR CAUSED BY, ITS FAILURE TO COMPLY WITH THIS REQUIREMENT.

C. THE CONTRACTOR AND ITS SUBCONTRACTORS ARE TO FULLY REVIEW AND UNDERSTAND THE SCOPE OF THE ENTIRE PROJECT WORK AS DEFINED THROUGHOUT THESE DRAWINGS. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BECOME COMPLETELY FAMILIAR WITH ALL ASPECTS OF THE WORK, EVEN THAT WORK DESIGNATED TO BE PERFORMED BY OTHERS. THIS FAMILIARIZATION INCLUDES FULL AND COMPLETE UNDERSTANDING OF THE WORK DESCRIBED ON ALL SHEETS OF THE DRAWINGS AND IN ALL SECTIONS OF THE PROJECT MANUAL. FAILURE BY THE CONTRACTOR TO BECOME COMPLETELY FAMILIAR AND COGNIZANT OF ALL ASPECTS OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE ALL LABOR, MATERIALS, ASSEMBLIES, AND COORDINATION INDICATED IN THE CONTRACT DOCUMENTS.

D. THE CONTRACTOR SHALL REVIEW IN ADVANCE ALL PORTIONS OF THE WORK TO VERIFY THAT THE WORK WILL NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED IN THESE CONTRACT DOCUMENTS. ANY QUESTIONS SHALL BE PROMPTLY REFERRED TO THE ARCHITECT FOR RESOLUTION.

E. THE CONTRACTOR SHALL (THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD) PROVIDE AND MAINTAIN TEMPORARY DUST AND WEATHER PROTECTION AS REQUIRED. PROVIDE DUST-PROOF BARRIERS TO PREVENT CONSTRUCTION DEBRIS / DUST FROM MIGRATING OUT OF THE PROJECT AREA. PROVIDE WEATHER BARRIERS TO PREVENT WATER INFILTRATION FROM DAMAGING NEW WORK OR EXISTING CONSTRUCTION. COORDINATE THE EXACT EXTENT AND LOCATION(S) OF WEATHER AND DUST BARRIERS WITH THE OWNER AND ARCHITECT WHEN WORKING WITHIN AN EXISTING BUILDING.

F. THE CONTRACTOR IS TO BE RESPONSIBLE FOR JOB CLEANLINESS. THE OWNER'S FACILITIES SHALL NOT BE USED FOR CONSTRUCTION TRASH / DEBRIS DISPOSAL. CONTRACTOR TO CLEAN-UP WORK AREAS DAILY. REFER TO THE PROJECT MANUAL FOR CLEANING AND DISPOSAL REQUIREMENTS.

G. V.I.F. = VERIFY IN FIELD BY CONTRACTOR.

H. THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURFACES, FINISHES, MATERIALS, COMPONENTS, ETC. TO REMAIN AT BOTH THE INTERIOR AND EXTERIOR OF THE BUILDING, AND ON THE SITE. ANY DAMAGE TO THESE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AT NO ADDITIONAL EXPENSE TO THE OWNER.

I. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY, DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION SHALL BE REPAIRED AND PATCHED AS REQUIRED TO CLEANLY AND SOUNDLY RECEIVE THE NEW WORK.

J. ALL EXISTING SURFACES LOCATED ADJACENT TO DEMOLITION WORK AND SCHEDULED TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONSTRUCTION SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH EXISTING.

K. WHERE DEMOLITION WORK EXPOSES AN UNFINISHED SURFACE OR CONDITION IN A SURFACE TO REMAIN EXPOSED, THE CONTRACTOR SHALL PATCH, REPAIR, AND PREPARE SUCH SURFACE OR CONDITION AS REQUIRED TO PROPERLY RECEIVE NEW FINISHES, TO PROPERLY BECOME AN EXPOSED FINISHED SURFACE OR CONDITION, AND TO MATCH THE ADJACENT EXISTING SURFACE (WHERE REQUIRED).

L. PREPARE ALL EXISTING WALLS AND FLOORS SCHEDULED TO RECEIVE NEW FINISHES (OR TO BE PATCHED) AS REQUIRED TO PROPERLY RECEIVE NEW FINISH MATERIAL (OR PATCHING MATERIAL). COORDINATE WITH THE ROOM FINISH SCHEDULE.

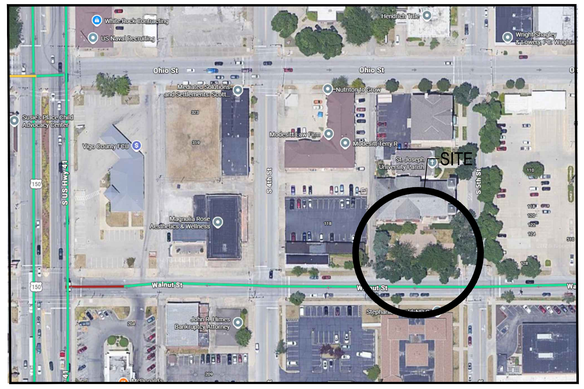
M. WHERE NEW FLOOR CONSTRUCTION OR FINISHES ARE TO MEET EXISTING FLOOR CONSTRUCTION OR FINISHES, A SMOOTH, STRAIGHT, LEVEL, UNIFORM AND FLUSH TRANSITION SHALL BE CONSTRUCTED. VERIFY IN FIELD THE EXISTING FLOOR ELEVATIONS AND CONDITIONS WHERE A NEW FLOOR IS TO ABUT EXISTING.

N. THE CONTRACTOR IS TO PROVIDE A COMPLETE, FINISHED, AND FUNCTIONAL INSTALLATION OF ALL COMPONENTS DESCRIBED IN THESE DRAWINGS.

O. THE CONTRACTOR IS TO COORDINATE DEMOLITION, CONSTRUCTION ACTIVITIES, DELIVERIES, AND THEIR RESPECTIVE SCHEDULING WITH THE OWNER TO MINIMIZE DISRUPTION AND DISTURBANCE OF THE OWNER'S ONGOING USE AND ACTIVITIES ON THE ENTIRE SITE. THE OWNER'S ACCESS, EGRESS, AND SAFETY SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES.

P. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE ALERTED TO THE FIRE AND LIFE SAFETY INFORMATION SHOWN IN THESE DRAWINGS AND WHERE BUILDING CODE ANALYSIS / REQUIREMENTS INDICATE FIRE-RESISTIVE CONSTRUCTION. CONSTRUCT ALL WALLS, PENETRATIONS, OPENINGS, INSTALLATIONS, ETC. IN ACCORDANCE WITH CURRENT APPLICABLE BUILDING CODES AND STANDARDS.

Location Map



Alternates

ALT. #1 PAYMENT & PERFORMANCE BONDS.

ALT. #2 ADD COMMERCIAL KITCHEN EQUIPMENT.

ALT. #3 ADD AUDIO/VISUAL EQUIPMENT & WIRING.

ALT. #4 SUBSTITUTE FIBER CEMENT SIDING IN LIEU OF BRICK.

ALT. #5 INCREASE BRICK RECESS TO 3/4".

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DAVID SHUE REGISTERED No. 19700101 STATE OF INDIANA PROFESSIONAL ENGINEER

WESLEY B. HARRISON REGISTERED PE60860410 STATE OF INDIANA PROFESSIONAL ENGINEER

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2024.012

September 1, 2026

St. Joseph University Catholic Parish

Roman Catholic Archdiocese of Indianapolis

New Parish Hall

Contract Documents

ST. JOSEPH UNIVERSITY CATHOLIC PARISH
NEW PARISH HALL

AGENCY CONTACT LIST

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17 HARDING AVENUE
TERRE HAUTE, IN 47807
812-244-2311

ENGINEERING DEPARTMENT
MARCUS MAURER, P.E.
17 HARDING AVENUE, ROOM 200
TERRE HAUTE, IN 47807
812-232-4028

TERRE HAUTE WASTEWATER UTILITY
3200 SOUTH STATE ROAD 63
TERRE HAUTE, IN 47802
812-244-5500

GAS SERVICE:
CENTERPOINT ENERGY
475 S 1ST ST.
TERRE HAUTE, IN 47807
812-231-6436

WATER SERVICE:
INDIANA-AMERICAN WATER COMPANY
1-800-492-8373

ELECTRICAL SERVICE:
DUKE ENERGY
301 HOME AVE.
TERRE HAUTE, IN 47803
HOME: 800-521-2232
BUSINESS: 800-774-1202

TELEPHONE SERVICE:
SPECTRUM - 855-646-4498
FRONTIER - 855-977-8145
JOINK - 812-234-5100

INTERNET SERVICE:
SPECTRUM - 855-646-4498
JOINK - 812-234-5100

LEGAL DESCRIPTION

LAND DESCRIPTION (FROM DEED BOOK 441, PAGE 855, INSTRUMENT NUMBER 96 03215)
LOTS 9, 10, 11 & 12 IN ORIGINAL TOWN OF TERRE HAUTE.

±0.97-ACRES (DEEDED)
±0.36-ACRES (DISTURBED)
113 S 5TH STREET
TERRE HAUTE, IN 47807

ARCHITECT

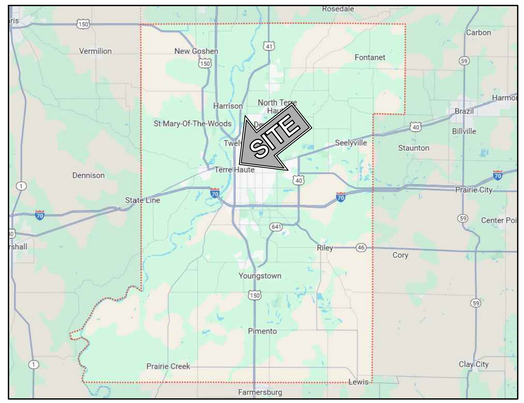
ENTHEOS ARCHITECTS
802 LORD STREET
SUITE 200
INDIANAPOLIS, IN 46202

CIVIL ENGINEER

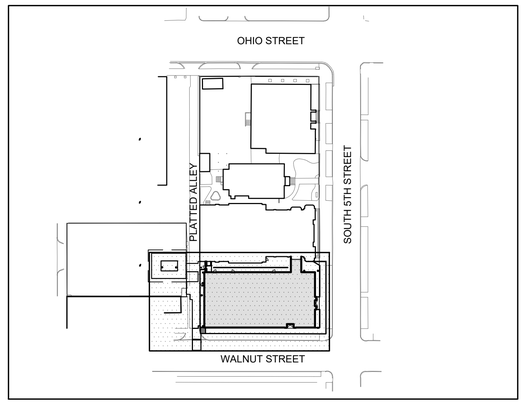
LANDWORX ENGINEERING, LLC
6311 WESTFIELD BLVD.
SUITE 100
INDIANAPOLIS, INDIANA 46220
317.616.0177



THE BEAUTIFUL STATE OF INDIANA



VICINITY MAP (NTS)



SITE PLAN (NTS)

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LATEST REVISION NUMBER PER SHEET
MOST RECENT ISSUANCE PER SHEET

○	-	12/12/23

FILLED CIRCLE INDICATES INCLUSION WITH CURRENT ISSUANCE

SITE SUMMARY DATA:

BENCHMARK DATA:

CGS B 293 1956 — ELEVATION 506.30 (NAVD 88)

A DISK SET VERTICALLY IN THE NORTH FACE OF WATER TABLE COURT HOUSE, 128.5 FEET WEST OF THE WEST CURB OF SOUTH STREET, 65 FEET SOUTH OF THE NORTHEAST CORNER OF SAID BUILDING, AND 3.5 FEET ABOVE THE SIDEWALK.

CSC TBM #2 — ELEVATION 504.34

A MAG NAIL WITH WASHER SET IN THE NORTHEAST CORNER OF AN ASPHALT PARKING LOT, LOCATED 32.8 FEET SOUTH OF THE CENTERLINE OF WALNUT STREET AND 200.9 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.

CSC TBM #3 — ELEVATION 503.10

A CUT "X" SET ON A CONCRETE SIDE WALK, LOCATED 32.3 FEET NORTH OF THE CENTERLINE OF OHIO STREET AND 144.7 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.

SITE DATA:

BUILDING DATA:

BUILDING AREA:	8,800 SQFT (FOOTPRINT)
PROPERTY AREA:	± 0.97ACRES (42,350 SF)

ZONING DATA:

PROPOSED USE:	C-8 CENTRAL BUSINESS DISTRICT(RELIGIOUS)
ZONING DISTRICT:	GENERAL BUSINESS

ADJACENT ZONING CLASSIFICATIONS:

NORTH:	COMMERCIAL
SOUTH:	COMMERCIAL
EAST:	COMMERCIAL
WEST:	COMMERCIAL

FLOOD ZONE:

THIS PROPERTY IS NOT WITHIN A FLOOD ZONE OR FLOODWAY AS DEFINED BY THE FIRM (FLOOD INSURANCE RATE MAP) FOR THE CITY OF TERRE HAUTE, COMMUNITY NO.180264, PANEL NUMBER 18167C0133C, DATED 02/18/2011.

UTILITY DISCLAIMER:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

STORM SYSTEM SUMMARY:

STORM PIPE (LINEAR FEET)
15" HDPE: 103
18" RCP: 28

STRUCTURES (EACH)
48" MANHOLE: 1

TRENCH DRAIN (LINEAR FEET)
5" TRENCH DRAIN: 90

IMPERVIOUS AREA:	±11,950 SQFT
PERVIOUS AREA:	±900 SQFT

BOARD OF PUBLIC WORKS
CITY OF TERRE HAUTE
17 HARDING AVENUE
TERRE HAUTE, IN 47807
812-244-2311

** INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED WITH THESE PLANS

Know what's below. Call before you dig.

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EVAN WEST REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

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St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

2024.012

COVER SHEET

C000

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.

2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.

3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.

4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO A LOCATION SPECIFIED BY THE OWNER OR THEIR REPRESENTATIVE.

5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE PERMISSION OF THE OWNER OR THEIR REPRESENTATIVE. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.

6. THE CONTRACTOR SHALL NOT USE EXPLOSIVES OR BURN DEBRIS.

7. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.

8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS, OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND OR PROPERTY OWNERS.

9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSONS TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.

10. THE CONTRACTOR SHALL PROTECT SURROUNDING STRUCTURES, UTILITIES, AND OTHER FACILITIES FROM DAMAGE DURING DEMOLITION AND REMOVAL OPERATIONS.

11. BUILDING STRUCTURES INCLUDING FOUNDATIONS AND BASEMENTS, SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS. EACH LIFT SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, OR IF SUCH REPORT IS UNAVAILABLE, TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR METHOD +/- 3% OF OPTIMUM MOISTURE CONTENT.

12. UTILITIES SHALL BE REMOVED AND THE TRENCHES BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR TO A MINIMUM OF 95 % OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR METHOD +/- 3 % OF OPTIMUM MOISTURE CONTENT.

13. TRANSPORT DEMOLITION MATERIAL TO AN INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PERMITTED LANDFILL.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.

SITE LAYOUT NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

2. ALL PARKING STRIPES ARE TO BE 4" PAINTED WHITE. UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS, OR SPECIFICATIONS.

3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, WHERE APPLICABLE.

4. ALL DIMENSIONS TO BUILDING ARE TO THE OUTSIDE FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

6. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING AREAS AS NECESSARY. ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.

7. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SODDED/SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS BEEN PLANTED.

8. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS HAVE DAMAGED EXISTING PAVEMENT, LAWNS OR OTHER IMPROVEMENTS DURING CONSTRUCTION, AFTER CONSTRUCTION WORK IS COMPLETE.

9. ALL UTILITY TRENCHES WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR BACKFILL.

10. ALL RADII INDICATED SHALL BE CONSTRUCTED AS CIRCULAR ARCS.

GRADING NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

3. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.

4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.

5. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH ENGINEERED GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.

6. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS, AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, "BIRD BATH" CONDITIONS.

7. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.

8. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.

9. FLOW LINE ELEVATIONS ARE GIVEN AT END OF CONCRETE END SECTIONS.

10. TOR = TOP OF RIM AND REFLECTS PAVEMENT GRADE.

11. NO STORM WATER SHALL BE ROUTED THROUGH THE DETENTION FACILITY UNTIL THE BMP IS INSTALLED AND FULLY FUNCTIONAL AND ALL CONSTRUCTION EROSION CONTROL FOR DISTURBED AREAS ARE INSTALLED TO ENSURE NO SEDIMENT BUILD-UP IN THE UNDERGROUND DETENTION STORAGE FACILITY. THE EROSION CONTROL METHODS AND BMP'S MUST BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRED OR CLEANED WHERE NECESSARY.

12. THE BENCH WALLS FOR STORM MANHOLES AND INLETS SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U' SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM ½ INCH PER FOOT SLOPE TO THE MANHOLE WALL..

13. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS 'STORM SEWER' CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.

14. INLET CASTINGS SHALL HAVE THE WORDS 'NO DUMPING. DRAINS TO STREAM' CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.

15. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN THE INDIANA STORMWATER QUALITY MANUAL AND/OR THE CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORM WATER SYSTEM.

16. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE INDIANA STORMWATER QUALITY MANUAL AND/OR THE CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.

EROSION CONTROL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

2. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.

3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

4. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.

5. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.

6. SEDIMENT BEING TRACED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.

7. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND REDISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.

8. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.

9. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON-SITE.

10. SCHEDULE OF EARTHWORK ACTIVITIES:

THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.

TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIME OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.

11. INFORM ALL GENERAL CONTRACTORS, CONSTRUCTION MANAGEMENT FIRMS, GRADING OR EXCAVATING CONTRACTORS, AND ALL OTHER CONTRACTORS WITH PRIMARY OVERSIGHT ON INDIVIDUAL BUILDING LOTS OF THE TERMS AND CONDITIONS OF THE CONSTRUCTION STORMWATER GENERAL PERMIT, AND THE CONDITIONS AND STANDARDS OF THIS EROSION CONTROL PLAN, SCHEDULE FOR IMPLEMENTATION, AND THE CONSTRUCTION SITE EROSION CONTROL PLAN REPORT.

12. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.

13. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

14. THE SITE WILL NOT REQUIRE DEWATERING ACTIVITIES. IN THE EVENT THAT DEWATERING IS REQUIRED, THE CONTRACTOR SHALL IMPLEMENT DEWATERING AS NECESSARY. DISCHARGE WATER FROM DEWATERING OF GROUND WATER FROM EXCAVATIONS SUCH AS BUT NOT LIMITED TO TRENCHED AND FOUNDATIONS SHALL BE DIRECTED TO AN APPROPRIATE STORMWATER QUALITY MEASURE THAT MINIMIZES THE DISCHARGE OF SEDIMENT REGARDLESS OF DISCHARGE LOCATION. DEWATERING OPTIONS:

14.1. SHALL NOT CAUSE EROSION FROM THE DISCHARGE. DEWATERING SHALL DISCHARGE TO STABLE, EROSION RESISTANT SURFACES, SUCH AS BUT NOT LIMITED TO CLEAN STONE OR WELL-VEGETATED GRASSY AREAS;

14.2. SHALL NOT HAVE A DISCHARGE WITH A VISIBLE SHEEN, FOAM AND/OR POLLUTANTS AT A LEVEL THAT REQUIRES ADDITIONAL TREATMENT AND/OR AN ALTERNATE PERMIT;

14.3. SHALL ROUTE DEWATERING WATER THROUGH A SEDIMENT CONTROL (E.G. SEDIMENT TRAP OR BASIN, PUMPED WATER FILTER BAG) DESIGNED TO PREVENT DISCHARGES WITH VISUAL TURBIDITY;

14.4. SHALL NOT BE PLACED ON STEEP SURFACES; AND

14.5. SHALL NOT USE RECEIVING WATER OR MS4 AS PART O F THE TREAT AREA;

15. PUBLIC AND PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. PROJECTS SUBJECT TO IDEM'S CSGP SHALL REMOVE SEDIMENT FROM PUBLIC RIGHTS-OF-WAY NOT EXCLUSIVE OF CONSTRUCTION TRAFFIC AT THE END OF EACH DAY PER THE CSGP REQUIREMENTS.

UTILITY NOTES:

1. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.

3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.

4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.

5. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.

6. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.

7. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE AND 10 FEET OF HORIZONTAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. MINIMUM CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PVC (SDR-26) PIPE WITH GASKETTED, COMPRESSION-TYPE JOINTS WITHIN TEN FEET OF THE WATER LINE.

8. NEW 6" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.

9. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.

10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.

11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

12. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

13. NO STORM WATER SHALL BE ROUTED THROUGH THE DETENTION FACILITY UNTIL THE BMP IS INSTALLED AND FULLY FUNCTIONAL AND ALL CONSTRUCTION EROSION CONTROL FOR DISTURBED AREAS ARE INSTALLED TO ENSURE NO SEDIMENT BUILD-UP IN THE UNDERGROUND DETENTION STORAGE FACILITY. THE EROSION CONTROL METHODS AND BMP'S MUST BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRED OR CLEANED WHERE NECESSARY.

14. THE BENCH WALLS FOR STORM MANHOLES AND INLETS SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U' SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM ½ INCH PER FOOT SLOPE TO THE MANHOLE WALL.

15. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS 'STORM SEWER' CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.INLET CASTINGS SHALL HAVE THE WORDS 'NO DUMPING. DRAINS TO STREAM' CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.

16. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN THE INDIANA STORMWATER QUALITY MANUAL AND/OR THE CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORM WATER SYSTEM.

EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	SPRINKLER CONTROL VALVE
	TELE/FIBER OPTIC/GAS MARKER
	WATER/SANITARY MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
AC	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND

12" 36"	CONIFEROUS TREE & SIZE DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
FM	UNDG. FORCE MAIN
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

PROPOSED LEGEND

UTILITIES

	DESCRIPTION / SYMBOL
S	PROPOSED SANITARY MANHOLE
	PROPOSED CLEAN OUT
W	PROPOSED WATER METER
G	PROPOSED GAS METER
E	PROPOSED ELECTRIC METER
T	PROPOSED ELECTRIC TRANSFORMER
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
P	PROPOSED POST INDICATOR VALVE
FDC	PROPOSED FIRE DEPARTMENT CONNECTION
E	PROPOSED ELECTRIC LINE
T	PROPOSED TELEPHONE LINE
W	PROPOSED WATER LINE
G	PROPOSED GAS LINE
FP	PROPOSED FIRE PROTECTION LINE
T/E	PROPOSED TELEPHONE & ELECTRIC LINE

GRADING & DRAINAGE

	DESCRIPTION / SYMBOL
713.00	PROPOSED SPOT
TC 712.50 BC 712.00	PROPOSED CURB ELEVATION
800	PROPOSED CONTOUR
800	EXISTING CONTOUR
	PROPOSED GRADE BREAK
	PROPOSED FLOWLINE
	DRAINAGE ARROW
ST	PROPOSED STORM SEWER
	PROPOSED UNDERDRAIN
	PROPOSED BEEHIVE INLET
	PROPOSED CURB INLET
	PROPOSED STORM MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED 'TYPE A' INLET
	CONCRETE END SECTION

ABBREVIATIONS

EP	EDGE OF PAVEMENT
TC	BOTTOM OF CURB
TOR	TOP OF RIM (PAVEMENT ELEVATION)
INV	INVERT
FL	FLOWLINE
M.E.	MATCH EXISTING
F.F.E.	FINISH FLOOR ELEVATION

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For Construction

Project No. 2024.012
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St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

GENERAL NOTES

C001

SECTION 1 - SITE CLEARING:

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, AND FRONT-END SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.

B. GEOTECHNICAL REPORT PREPARED FOR THIS SPECIFIC PROJECT AND EARLIER VERSIONS/RELATED DOCUMENTS.

C. ENVIRONMENTAL AND ARCHAEOLOGICAL REPORTS/REQUIREMENTS BY OTHERS. CONTACT OWNER FOR INFORMATION AND COORDINATION.

1.02 DESCRIPTION OF WORK:

A. EXTENT OF SITE CLEARING AS INDICATED ON DRAWINGS.

1.03 PROJECT CONDITIONS:

A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY OWNER OR AUTHORITIES HAVING JURISDICTION.

B. PROTECTION OF EXISTING IMPROVEMENTS: PROVIDE PROTECTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED TO REMAIN IN PLACE.

1. PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AND ON OWNER'S PROPERTY.
2. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.

C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED PRIOR TO PROJECT COMMENCEMENT

D. PROTECTION OF EXISTING VEGETATION: PROTECT EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES. PROVIDE TEMPORARY GUARDS TO PROTECT VEGETATION TO BE LEFT STANDING.

1. WATER VEGETATION TO REMAIN WITHIN LIMITS OF CONTRACT WORK AS REQUIRED TO MAINTAIN THEIR HEALTH DURING COURSE OF CONSTRUCTION OPERATIONS.
2. PROVIDE PROTECTION FOR ROOTS CUT DURING CONSTRUCTION OPERATIONS. COAT CUT FACES WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATING FORMULATED FOR USE ON DAMAGED PLANT TISSUES. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT ROOTS FROM DRYING OUT; COVER WITH EARTH AS SOON AS POSSIBLE.

E. IMPROVEMENTS ON ADJOINING PROPERTY: AUTHORITY FOR PERFORMING REMOVAL AND ALTERATION WORK ON PROPERTY ADJOINING OWNER'S PROPERTY WILL BE OBTAINED BY OWNER PRIOR TO AWARD OF CONTRACT.

1. DO NOT PROCEED WITH WORK ON ADJOINING PROPERTY UNTIL DIRECTED BY THE ARCHITECT OR OWNER.
2. EXTENT OF WORK ON ADJACENT PROPERTY IS INDICATED ON DRAWINGS.

F. SALEABLE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED, AND STORE ON OWNER'S PREMISES WHERE INDICATED OR DIRECTED.

PART 2 - EXECUTION

2.01 POLLUTION CONTROLS:

A. GENERAL: USE WATER SPRINKLING, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

1. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING, AND POLLUTION.
2. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY CLEARING AND GRUBBING OPERATIONS, AS DIRECTED BY ARCHITECT OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO START OF WORK.

2.02 SITE CLEARING:

A. GENERAL: REMOVE TREES, SHRUBS, GRASS AND OTHER VEGETATION, IMPROVEMENTS, OR OBSTRUCTIONS INTERFERING WITH INSTALLATION OF NEW CONSTRUCTION.

REMOVE SUCH ITEMS ELSEWHERE ON SITE OR PREMISES AS SPECIFICALLY INDICATED. REMOVAL INCLUDES DIGGING OUT STUMPS AND ROOTS.

B. TOPSOIL: TOPSOIL IS DEFINED AS FRIABLE CLAY LOAM SURFACE SOIL FOUND IN A DEPTH OF NOT LESS THAN 4" IN MOST CONDITIONS. SATISFACTORY TOPSOIL IS REASONABLY FREE OF SUBSOIL, CLAY LUMPS, STONES, AND OTHER OBJECTS OVER 2" IN DIAMETER, AND WITHOUT WEEDS, ROOTS, OR OTHER OBJECTIONABLE MATERIAL

1. STRIP TOPSOIL TO DEPTHS INDICATED IN SOIL INVESTIGATION REPORT OR TO WHATEVER DEPTHS ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER OBJECTIONABLE MATERIAL.
   - REMOVE HEAVY GROWTHS OF GRASS FROM AREAS BEFORE STRIPPING.
   - WHERE TREES ARE INDICATED TO BE LEFT STANDING, STOP TOPSOIL STRIPPING A SUFFICIENT DISTANCE TO PREVENT DAMAGE TO MAIN ROOT SYSTEM.
2. STOCKPILE TOPSOIL IN STORAGE PILES IN AREAS AS NOTED ON PLANS, OR WHERE DIRECTED. CONSTRUCT STORAGE PILES TO FREELY DRAIN SURFACE WATER. COVER STORAGE PILES IF REQUIRED TO PREVENT WINDBLOWN DUST. SURROUND STORAGE PILES WITH EROSION CONTROL MEASURES, I.E. SILT FENCE.
3. DISPOSE OF UNSUITABLE OR EXCESS TOPSOIL SAME AS WASTE MATERIAL, HEREIN SPECIFIED.

C. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION WITHIN CONTRACT LIMIT, EXCEPT FOR THOSE INDICATED TO BE LEFT STANDING.

1. USE ONLY HAND METHODS FOR GRUBBING INSIDE DRIP LINE OF TREES INDICATED TO BE LEFT STANDING.
2. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL, UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED AS APPROVED BY SOILS ENGINEER.
   - PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING 6" LOOSE DEPTH, AND THOROUGHLY COMPACT TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND IN AREAS NOT OCCUPIED BY NEW CONSTRUCTION OR OTHER IMPROVEMENTS AS APPROVED BY GEOTECHNICAL ENGINEER. FILL MATERIAL AND COMPACTION IN AREAS OCCUPIED BY NEW CONSTRUCTION OR OTHER IMPROVEMENTS IS SPECIFIED IN DIVISION 2 SECTION "EARTHWORK".

D. REMOVAL OF IMPROVEMENTS: REMOVE EXISTING ABOVE GRADE AND BELOW GRADE IMPROVEMENTS NECESSARY TO PERMIT CONSTRUCTION AND OTHER WORK AS INDICATED.

1. REMOVAL OF PAVEMENT, SIDEWALKS AND CURBS SHALL BE BROKEN INTO PIECES OF SIZES TO ALLOW EASE OF REMOVAL AND DISPOSAL.
   - WHERE PAVEMENT, SIDEWALKS AND CURBS ARE INDICATED TO REMAIN, FULL-DEPTH SAWCUT ALONG EDGES INDICATED, PRIOR TO REMOVAL. SAWING SHALL BE PERFORMED IN MANNER WHICH WILL NOT DAMAGE ANY PAVEMENT, SIDEWALKS OR CURBS TO REMAIN. PORTIONS THAT ARE DAMAGED OR REMOVED IN EXCESS SHALL BE REPLACED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
2. ABANDONMENT OR REMOVAL OF CERTAIN UNDERGROUND PIPE OR CONDUITS MAY BE SHOWN ON MECHANICAL OR ELECTRICAL DRAWINGS AND IS INCLUDED UNDER WORK OF THOSE SECTIONS. REMOVAL OF ABANDONED UNDERGROUND PIPING OR CONDUIT INTERFERING WITH CONSTRUCTION IS INCLUDED UNDER THIS SECTION.

2.03 EXISTING UTILITIES

A. COORDINATE WITH OWNER TO ARRANGE FOR DISCONNECTING AND SEALING INDICATED UTILITIES THAT SERVE EXISTING STRUCTURES BEFORE SITE CLEARING, WHEN REQUESTED BY CONTRACTOR.

1. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE PROCEEDING WITH SITE CLEARING.

B. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE.

1. ARRANGE WITH UTILITY COMPANIES OR COORDINATE WITH OWNER TO ARRANGE TO SHUT OFF INDICATED UTILITIES.

C. INTERRUPTING EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED:

1. NOTIFY ARCHITECT, CONSTRUCTION MANAGER, AND OWNER NOT LESS THAN SEVEN DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT OWNER'S AND ARCHITECT'S WRITTEN PERMISSION.

2.04 DISPOSAL OF WASTE MATERIALS:

A. BURNING ON OWNER'S PROPERTY: BURNING IS NOT PERMITTED ON OWNER'S PROPERTY.

B. REMOVAL FROM OWNER'S PROPERTY: REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM OWNER'S PROPERTY AND DISPOSE OF OFFSITE IN LEGAL MANNER.

END OF SECTION 1

SECTION 2 - EARTH MOVING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND FRONT-END SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION

B. GEOTECHNICAL REPORT PREPARED FOR THIS SPECIFIC PROJECT AND EARLIER VERSIONS/RELATED DOCUMENTS.

C. ENVIRONMENTAL AND ARCHAEOLOGICAL REPORTS/REQUIREMENTS BY OTHERS. CONTACT OWNER FOR INFORMATION AND COORDINATION.

1.02 DESCRIPTION OF WORK:

A. EXTENT OF EARTHWORK AS INDICATED ON DRAWINGS.

B. DEFINITION: "EXCAVATION" CONSISTS OF REMOVAL OF MATERIAL ENCOUNTERED TO SUBGRADE ELEVATIONS INDICATED AND SUBSEQUENT DISPOSAL OF MATERIALS REMOVED.

1.03 QUALITY ASSURANCE:

A. CODES AND STANDARDS: PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION.

B. TESTING AND INSPECTION SERVICE:

1. TESTING LABORATORY: EMPLOY, AT CONSTRUCTION MANAGER/OWNER'S EXPENSE, TESTING LABORATORY TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS.
2. SOILS ENGINEER: TESTING LABORATORY SHALL ASSIGN A REGISTERED SOILS ENGINEER TO SUPERVISE THE ENTIRE PERIOD OF EARTHWORK AND BE RESPONSIBLE FOR ALL TESTING AND INSPECTIONS.
   - SOILS INVESTIGATION REPORT: SOILS ENGINEER SHALL OBTAIN A COPY OF THE SOILS INVESTIGATION REPORT AND BE RESPONSIBLE TO MAKE SURE THAT ALL EARTHWORK OPERATIONS CONFORM, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER OR SO INDICATED ON BY THE CONTRACT DOCUMENTS.
   - SOIL MATERIALS USED ON THE PROJECT WHETHER EXISTING OR NEW SHALL BE VERIFIED AND APPROVED BY SOILS ENGINEER. IF NOT APPROVED, THE SOILS ENGINEER SHALL MAKE RECOMMENDATIONS TO THE PROPER MATERIALS TO BE USED FOR APPROVAL BY THE ARCHITECT/ENGINEER.
   - COMPACTION OF SOIL MATERIALS USED ON THE PROJECT WHETHER EXISTING OR NEW BASED ON THEIR INTEND USE, SHALL BE VERIFIED AND APPROVED BY SOILS ENGINEER. IF NOT APPROVED, THE SOILS ENGINEER SHALL MAKE RECOMMENDATIONS TO THE PROPER COMPACTION AND PERCENT OF RELATIVE DENSITY OF SOIL MATERIALS FOR APPROVAL BY THE ARCHITECT/ENGINEER.

1.04 SUBMITTALS:

A. TEST REPORTS EXCAVATING: SUBMIT THE FOLLOWING REPORTS DIRECTLY TO ARCHITECT/ENGINEER FROM THE TESTING SERVICES, WITH COPY TO CONTRACTOR:

1. TEST REPORTS ON BORROW MATERIAL.
2. VERIFICATION OF EACH FOOTING SUBGRADE.
3. FIELD DENSITY TEST REPORTS.
4. ONE OPTIMUM MOISTURE MAXIMUM DENSITY CURVE FOR EACH TYPE OF SOIL ENCOUNTERED.
5. REPORT OF ACTUAL UNCONFINED COMPRESSIVE STRENGTH AND/OR RESULTS OF BEARING TESTS OF EACH STRATA TESTED

1.05 JOB CONDITIONS:

A. SITE INFORMATION: SOILS INVESTIGATION DATA ON INDICATED SUBSURFACE CONDITIONS ARE NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY OR CONTINUITY BETWEEN SOIL BEARINGS. IT IS EXPRESSLY UNDERSTOOD THAT OWNER WILL NOT BE RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY CONTRACTOR. SOILS INVESTIGATION REPORT WILL BE MADE AVAILABLE FOR CONVENIENCE OF CONTRACTOR.

1. ADDITIONAL TEST BORINGS AND OTHER EXPLORATORY OPERATIONS MAY BE MADE BY CONTRACTOR AT NO COST TO OWNER IF SO DIRECTED BY THE SOILS ENGINEER.

B. EXISTING UTILITIES: LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.

1. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY OWNER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER.
2. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, DURING OCCUPIED HOURS, EXCEPT WHEN PERMITTED IN WRITING BY ARCHITECT/ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
   - PROVIDE MINIMUM OF 48-HOUR NOTICE TO ARCHITECT/ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY.
3. DEMOLISH AND COMPLETELY REMOVE FROM SITE EXISTING UNDERGROUND UTILITIES INDICATED TO BE REMOVED. COORDINATE WITH UTILITY COMPANIES FOR SHUT OFF OF SERVICES IF LINES ARE ACTIVE.

C. USE OF EXPLOSIVES: THE USE OF EXPLOSIVES IS NOT PERMITTED.

D. PROTECTION OF PERSONS AND PROPERTY: BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS.

1. OPERATE WARNING LIGHTS AS RECOMMENDED BY AUTHORITIES HAVING JURISDICTION.
2. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, OR OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.
   - PERFORM EXCAVATION WITHIN DRIP LINE OF LARGE TREES TO REMAIN BY HAND AND PROTECT THE ROOT SYSTEM FROM DAMAGE OR DRYING OUT TO THE GREATEST EXTENT POSSIBLE. MAINTAIN MOIST CONDITION FOR ROOT SYSTEM AND COVER EXPOSED ROOTS WITH BURLAP. PAINT ROOT CUTS OF 1" DIAMETER AND LARGER WITH EMULSIFIED ASPHALT TREE PAINT

PART 2 - PRODUCTS

2.01 SOIL MATERIALS:

DEFINITIONS:

A. SATISFACTORY SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SM, SW, SP, AND SITE EXCAVATED MATERIAL APPROVED BY SOILS ENGINEER.

B. UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH, AND APPROVED BY SOILS ENGINEER.

C. SUB-BASE MATERIAL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG, NATURAL OR CRUSHED SAND AND APPROVED BY SOILS ENGINEER.

D. DRAINAGE FILL: WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL, WITH 100% PASSING A 1 1/2" SIEVE AND NOT MORE THAN 5% PASSING A NO. 4 SIEVE AND APPROVED BY SOILS ENGINEER.

E. BACKFILL AND FILL MATERIALS: SATISFACTORY SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETABLE AND OTHER DELETERIOUS MATTER AND APPROVED BY SOILS ENGINEER.

PART 3 - EXECUTION

3.01 POLLUTION CONTROLS:

A. GENERAL: USE WATER SPRINKLING, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

B. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING AND POLLUTION.

C. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY EARTHWORK OPERATIONS, AS DIRECTED BY ARCHITECT OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO START OF WORK.

3.02 EXCAVATION:

A. EXCAVATION IS UNCLASSIFIED, AND INCLUDES EXCAVATION TO SUBGRADE ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIALS AND OBSTRUCTIONS ENCOUNTERED.

B. UNAUTHORIZED EXCAVATION CONSISTS OF REMOVAL OF MATERIALS BEYOND INDICATED SUBGRADE ELEVATIONS OR DIMENSIONS WITHOUT SPECIFIC DIRECTION OF ARCHITECT/ENGINEER. UNAUTHORIZED EXCAVATION, AS WELL AS REMEDIAL WORK DIRECTED BY SOILS ENGINEER AND APPROVED BY ARCHITECT/ENGINEER, SHALL BE AT CONTRACTOR'S EXPENSE.

1. UNDER FOOTINGS, FOUNDATION BASES, OR RETAINING WALLS, FILL UNAUTHORIZED EXCAVATION BY EXTENDING INDICATED BOTTOM ELEVATION OF FOOTING OR BASE TO EXCAVATION BOTTOM, WITHOUT ALTERING REQUIRED TOP ELEVATION. LEAN CONCRETE FILL MAY BE USED TO BRING ELEVATIONS TO PROPER POSITION, WHEN ACCEPTABLE TO SOILS ENGINEER AND APPROVED BY ARCHITECT/ ENGINEER.
2. ELSEWHERE, BACKFILL AND COMPACT UNAUTHORIZED EXCAVATIONS AS SPECIFIED FOR AUTHORIZED EXCAVATIONS OF SAME CLASSIFICATION, UNLESS OTHERWISE DIRECTED BY SOILS ENGINEER AND APPROVED BY ARCHITECT/ENGINEER.

C. ADDITIONAL EXCAVATION: WHEN EXCAVATION HAS REACHED REQUIRED SUB GRADE ELEVATIONS, NOTIFY ARCHITECT/ENGINEER WHO WILL MAKE AN INSPECTION OF CONDITIONS.

D. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT REQUIRED SUB GRADE ELEVATIONS, CARRY EXCAVATIONS DEEPER AND REPLACE EXCAVATED MATERIAL AS DIRECTED BY SOILS ENGINEER AND APPROVED BY ARCHITECT/ENGINEER.

1. REMOVAL OF UNSUITABLE MATERIAL AND ITS REPLACEMENT AS DIRECTED WILL BE PAID ON BASIS OF CONTRACT CONDITIONS RELATIVE TO CHANGES IN WORK.

E. STABILITY OF EXCAVATIONS: SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION AND AS RECOMMENDED BY SOILS ENGINEER. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.

1. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.

F. SHORING AND BRACING: PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING, UPRIGHTS, STRINGERS, AND CROSS BRACES, IN GOOD SERVICEABLE CONDITION.

1. ESTABLISH REQUIREMENTS FOR TRENCH SHORING AND BRACING TO COMPLY WITH LOCAL CODES AND AUTHORITIES HAVING JURISDICTION AND AS RECOMMENDED BY SOILS ENGINEER.
2. MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN. CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES.
   - PROVIDE PERMANENT STEEL SHEET PILING OR PRESSURE CREOSOTED TIMBER SHEET PILING WHEREVER SUBSEQUENT REMOVAL OF SHEET PILING MIGHT PERMIT LATERAL MOVEMENT OF SOIL UNDER ADJACENT STRUCTURES. CUT OFF TOPS AS REQUIRED AND LEAVE PERMANENTLY IN PLACE.

G. DEWATERING: PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.

1. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINES, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS.

H. MOISTURE CONTENT: DO NOT CONTINUE WITH COMPACTION UNTIL PROPER MOISTURE CONTENT HAS BEEN ESTABLISHED AND APPROVED BY SOILS ENGINEER.

1. ESTABLISH AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS TO CONVEY RAIN WATER AND WATER REMOVED FROM EXCAVATIONS TO COLLECTING OR RUN OFF AREAS. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

I. MATERIAL STORAGE: STOCKPILE SATISFACTORY EXCAVATED MATERIALS WHERE DIRECTED, UNTIL REQUIRED FOR BACKFILL OR FILL. PLACE, GRADE AND SHAPE STOCKPILES FOR PROPER DRAINAGE.

1. LOCATE AND RETAIN SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DO NOT STORE WITHIN DRIP LINE OF TREES INDICATED TO REMAIN.
2. DISPOSE OF EXCESS SOIL MATERIAL AND WASTE MATERIALS AS HEREIN SPECIFIED.

J. EXCAVATION FOR STRUCTURES: CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.10' AND EXTENDING A SUFFICIENT DISTANCE FROM FOOTINGS AND FOUNDATIONS TO PERMIT PLACING AND REMOVAL OF CONCRETE FORM WORK, INSTALLATION OF SERVICES, OTHER CONSTRUCTION, AND FOR INSPECTION.

1. IN EXCAVATING FOR FOOTINGS AND FOUNDATIONS, TAKE CARE NOT TO DISTURB BOTTOM OF EXCAVATION. EXCAVATE BY HAND TO FINAL GRADE JUST BEFORE CONCRETE REINFORCEMENT IS PLACED. TRIM BOTTOMS TO REQUIRED LINES AND GRADES TO LEAVE SOLID BASE TO RECEIVE OTHER WORK.
2. IN EXCAVATING FOR GRADE BEAMS, USE TRENCHING MACHINE OF PROPER WIDTH TO PROVIDE EARTH FORMS AS APPROVED BY SOILS ENGINEER.
3. IN EXCAVATING FOR SPREAD FOOTINGS, THE SOIL MATERIALS IS OF THE PROPER TYPE AS APPROVED BY SOILS ENGINEER, EARTH FORMS MAY BE USED.
4. FOR PILE FOUNDATIONS, STOP EXCAVATIONS FROM 6" TO 12" ABOVE BOTTOM OF FOOTING BEFORE PILES ARE PLACED. AFTER PILES HAVE BEEN DRIVEN, REMOVE LOOSE AND DISPLACED MATERIAL AND EXCAVATE TO FINAL GRADE, LEAVING SOLID BASE TO RECEIVE CONCRETE PILE CAPS.

K. EXCAVATION FOR PAVEMENTS: CUT SURFACE UNDER PAVEMENTS TO COMPLY WITH CROSS SECTIONS, ELEVATIONS, AND GRADES AS SHOWN.

L. EXCAVATION FOR TRENCHES: DIG TRENCHES TO THE UNIFORM WIDTH REQUIRED FOR PARTICULAR ITEM TO BE INSTALLED, SUFFICIENTLY WIDE TO PROVIDE AMPLE WORKING ROOM. PROVIDE 6" TO 9" CLEARANCE ON BOTH SIDES OF PIPE OR CONDUIT.

1. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED. CARRY DEPTH OF TRENCHES FOR PIPING TO ESTABLISH INDICATED FLOW LINES AND INVERT ELEVATIONS.
2. BEYOND BUILDING PERIMETER, KEEP BOTTOMS OF TRENCHES SUFFICIENTLY BELOW FINISH GRADE TO AVOID FREEZE UPS.
3. WHERE ROCK IS ENCOUNTERED, CARRY EXCAVATION 6" BELOW REQUIRED ELEVATION AND BACKFILL WITH A 6" LAYER OF CRUSHED STONE OR GRAVEL PRIOR TO INSTALLATION OF PIPE.
4. FOR PIPES OR CONDUIT 5" OR LESS IN NOMINAL SIZE AND FOR FLAT BOTTOMED MULTIPLE DUCT CONDUIT UNITS, DO NOT EXCAVATE BEYOND INDICATED DEPTHS. HAND EXCAVATE BOTTOM CUT TO ACCURATE ELEVATIONS AND SUPPORT PIPE OR CONDUIT ON UNDISTURBED SOIL.
5. FOR PIPES OR CONDUIT 6" OR LARGER IN NOMINAL SIZE, TANKS AND OTHER MECHANICAL/ELECTRICAL WORK INDICATED TO RECEIVE SUB-BASE, EXCAVATE TO SUB-BASE DEPTH INDICATED, OR, IF NOT OTHERWISE INDICATED, TO 6" BELOW BOTTOM OF WORK TO BE SUPPORTED.
6. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR EXTERIOR WATER BEARING PIPING (WATER, STEAM, CONDENSATE, DRAINAGE) SO TOP OF PIPING IS NOT LESS THAN 4' 6" BELOW FINISHED GRADE.
7. GRADE BOTTOMS OF TRENCHES AS INDICATED, NOTCHING UNDER PIPE BELLS TO PROVIDE SOLID BEARING FOR ENTIRE BODY OF PIPE.
8. BACKFILL TRENCHES WITH CONCRETE WHERE TRENCH EXCAVATIONS PASS WITHIN 18" OF COLUMN OR WALL FOOTINGS AND WHICH ARE CARRIED BELOW BOTTOM OF SUCH FOOTINGS, OR WHICH PASS UNDER WALL FOOTINGS. PLACE CONCRETE TO LEVEL OF BOTTOM OF ADJACENT FOOTING.
9. CONCRETE IS SPECIFIED IN SECTION 7.
10. DO NOT BACKFILL TRENCHES UNTIL TESTS AND INSPECTIONS HAVE BEEN MADE AND BACKFILLING AUTHORIZED BY ARCHITECT/ENGINEER. USE CARE IN BACKFILLING TO AVOID DAMAGE OR DISPLACEMENT OF PIPE SYSTEMS.
11. FOR PIPING OR CONDUIT LESS THAN 2' 6" BELOW SURFACE OF ROADWAYS, PROVIDE 4" THICK CONCRETE BASE SLAB SUPPORT. AFTER INSTALLATION AND TESTING OF PIPING OR CONDUIT, PROVIDE MINIMUM 4" THICK ENCASEMENT (SIDES AND TOP) OF CONCRETE PRIOR TO BACKFILLING OR PLACEMENT OF ROADWAY SUB-BASE.

M. COLD WEATHER PROTECTION: PROTECT EXCAVATION BOTTOMS AGAINST FREEZING WHEN ATMOSPHERIC TEMPERATURE IS LESS THAN 35 F (1 C).

3.03 COMPACTION:

A. GENERAL: CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING MINIMUM PERCENTAGE OF DENSITY SPECIFIED FOR EACH AREA CLASSIFICATION INDICATED BELOW AND RECOMMENDED BY SOILS ENGINEER AND APPROVED BY ARCHITECT.

B. PERCENTAGE OF MAXIMUM DENSITY REQUIREMENTS: REFER TO SOILS INVESTIGATION REPORT.

1. MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE, OR LAYER OF SOIL MATERIAL, TO PREVENT FREE WATER APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS AS RECOMMENDED BY SOILS ENGINEER.
2. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY AS RECOMMENDED BY SOILS ENGINEER.
   - SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISCING, HARROWING OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE AS RECOMMENDED BY SOILS ENGINEER.

3.04 BACKFILL AND FILL:

A. GENERAL: PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS, FOR EACH AREA CLASSIFICATION LISTED BELOW. IN EXCAVATIONS, USE SATISFACTORY EXCAVATED OR BORROW MATERIAL.

1. UNDER GRASSED AREAS, USE SATISFACTORY EXCAVATED OR BORROW MATERIAL.
2. UNDER WALKS AND PAVEMENTS, USE SUB-BASE MATERIAL, OR SATISFACTORY EXCAVATED OR BORROW MATERIAL, OR COMBINATION OF BOTH. UNDER STEPS, USE SUB-BASE MATERIAL.
3. UNDER BUILDING SLABS, USE DRAINAGE FILL MATERIAL
4. UNDER PIPING AND CONDUIT, USE SUB-BASE MATERIAL WHERE SUB-BASE IS INDICATED UNDER PIPING OR CONDUIT; SHAPE TO FIT BOTTOM 90 OF CYLINDER

B. BACKFILL EXCAVATIONS AS PROMPTLY AS WORK PERMITS, BUT NOT UNTIL COMPLETION OF THE FOLLOWING

1. ACCEPTANCE OF CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, DAMP PROOFING, WATERPROOFING, AND PERIMETER INSULATION.
   - BELOW FINISH GRADE OCCUPIED AREAS SHALL NOT HAVE FILL MATERIAL PLACED AGAINST FOUNDATION WALLS, UNTIL FIRST FLOOR SLAB HAS ATTAINED ITS FULL DESIGN STRENGTH.
2. INSPECTION, TESTING, APPROVAL, AND RECORDING LOCATIONS OF UNDERGROUND UT

SECTION 6 - ASPHALT PAVING

PART 1 GENERAL

1.01 RELATED DOCUMENTS:

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.

1.02 DESCRIPTION OF WORK:

B. EXTENT OF ASPHALT CONCRETE PAVING WORK AS SHOWN ON DRAWINGS.

1.03 SUBMITTALS:

A. MATERIAL CERTIFICATES: PROVIDE COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR, CERTIFYING THAT EACH MATERIAL ITEM COMPLIES WITH, OR EXCEEDS, SPECIFIED REQUIREMENTS.

1.04 QUALITY ASSURANCE:

A. CODES AND STANDARDS: COMPLY WITH STATE HIGHWAY OR TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS, LATEST EDITION, AND WITH LOCAL GOVERNING REGULATIONS IF MORE STRINGENT THAN HEREIN SPECIFIED.

B. USE ONLY HERBICIDES WHICH BEAR A FEDERAL REGISTRATION NUMBER OF THE ENVIRONMENTAL PROTECTION AGENCY.

C. ENVIRONMENTAL STANDARDS: COATING MATERIALS SHALL COMPLY WITH PROVISIONS OF THE FOLLOWING:

1. ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL VOLATILE ORGANIC COMPOUND (VOC) EMISSION STANDARDS FOR ARCHITECTURAL COATINGS, UNLESS MORE STRINGENT STANDARDS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION.

1.05 SITE CONDITIONS:

A. WEATHER LIMITATIONS: APPLY PRIME AND TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50°F (10°C), AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35°F (1°C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS AN EXCESS OF MOISTURE.

B. GRADE CONTROL: ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. GENERAL: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS OR TYPE INDICATED, DETAILED AND SCHEDULED.

B. BASE COURSE AGGREGATE: SOUND, ANGULAR CRUSHED STONE, CRUSHED GRAVEL, OR CRUSHED SLAG, SAND, STONE OR SLAG SCREENINGS.

C. BINDER COURSE AGGREGATE: SOUND, ANGULAR CRUSHED STONE, CRUSHED GRAVEL, OR CRUSHED SLAG, SAND, STONE OR SLAG SCREENINGS.

D. SURFACE COURSE AGGREGATE: CRUSHED STONE, CRUSHED GRAVEL, CRUSHED SLAG, AND SHARP-EDGED NATURAL SAND.

E. MINERAL FILLER: ROCK OR SLAG DUST, HYDRAULIC CEMENT, OR OTHER INERT MATERIAL COMPLYING WITH ASTM D 242.

F. ASPHALT CEMENT: ASTM D 3381 FOR VISCOSITY GRADED MATERIAL AND ASTM D 946 FOR PENETRATION GRADED MATERIAL.

G. PRIME COAT: CUT BACK ASPHALT TYPE; ASTM D 2027.

H. TACK COAT: EMULSIFIED ASPHALT; ASTM D 997.

I. HERBICIDE TREATMENT: COMMERCIAL CHEMICAL FOR WEED CONTROL, REGISTERED BY ENVIRONMENTAL PROTECTION AGENCY. PROVIDE GRANULAR, LIQUID, OR WETTABLE POWDER FORM.

1. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE PRODUCTS OF ONE OF THE FOLLOWING
   - CIBA GEIGY CORP.
   - DOW CHEMICAL U.S.A.
   - E.I. DUPONT DE NEMOURS & CO., INC.
   - FMC CORP.
   - THOMPSON HAYWARD CHEMICAL CO.
   - U.S. BORAX AND CHEMICAL CORP.

J. LANE MARKING: ACRYLIC LATEX WATER BASED RESIN TYPE

1. ACRYLIC LATEX WATER BASED RESIN TYPE

   MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE PRODUCTS OF THE FOLLOWING.
   - DEVOE; #416XX TRAFFIC LINE
   - GLIDDEN; #6324X ULTRA HEDE
   - MAB; "072 SERIES" LATEX TRAFFIC PAINT

2. THERMOPLASTIC MARKING.

K. WHEEL STOPS: PRECAST OF 4,500 PSI AIR ENTRAINED CONCRETE, APPROXIMATELY 5" HIGH, 7" WIDE, AND 8'0" LONG, WITH CHAMFERED CORNERS AND DRAINAGE SLOTS ON UNDERSIDE.

L. GEOTEXTILE FABRIC: SPUNBOND 100% POLYESTER OR POLYPROPYLENE FABRIC MEETING THE FOLLOWING MINIMUM REQUIREMENTS.

1. PERMEABILITY: ASTM D 4491 0.01 CMPS.
2. GRAB STRENGTH: ASTM D 4632, 130 LBS.
3. PUNCTURE STRENGTH: ASTM D 4833 40 LBS.
4. BURST STRENGTH: ASTM D 3786, 140 LBS.

2.02 ASPHALT AGGREGATE MIXTURE:

A. PROVIDE PLANT MIXED, HOT LAID ASPHALT AGGREGATE MIXTURE COMPLYING WITH ASTM D 3515 AND AS RECOMMENDED BY LOCAL PAVING AUTHORITIES TO SUIT PROJECT CONDITIONS.

PART 3 - EXECUTION

3.01 SURFACE PREPARATION:

A. REMOVE LOOSE MATERIAL FROM COMPACTED SUBGRADE SURFACE IMMEDIATELY BEFORE APPLYING HERBICIDE TREATMENT OR PRIME COAT.

B. PROOF ROLL PREPARED SUBGRADE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION.

1. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBGRADE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING AS RECOMMENDED BY SOILS ENGINEER.

C. HERBICIDE TREATMENT: APPLY CHEMICAL WEED CONTROL AGENT IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDED DOSAGES AND APPLICATION INSTRUCTIONS. APPLY TO COMPACTED, DRY BASE COURSE PRIOR TO APPLICATION OF PRIME COAT.

D. GEOTEXTILE FABRIC: UNROLL FABRIC ON PREPARED SUBGRADE OVERLAPPING A MINIMUM OF 24 INCHES. FABRIC SHOULD NOT BE UNROLLED MORE THAN 25 FT. AHEAD OF BASE AGGREGATE PLACEMENT TO AVOID OVERLAP SEPARATION.

1. DO NOT INSTALL GEOTEXTILE FABRIC UNLESS RECOMMENDED BY SOIL ENGINEER AND APPROVED BY ARCHITECT. INSTALLATION WILL BE PAID ON BASIS OF ESTABLISHED UNIT PRICE.

E. TACK COAT: APPLY TO CONTACT SURFACES OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE AND SURFACES ABUTTING OR PROJECTING INTO ASPHALT CONCRETE PAVEMENT. DISTRIBUTE AT RATE OF 0.05 TO 0.15 GAL. PER SQ. YD. OF SURFACE.

1. ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAVING.
2. EXERCISE CARE IN APPLYING BITUMINOUS MATERIALS TO AVOID SMEARING OF ADJOINING CONCRETE SURFACES. REMOVE AND CLEAN DAMAGED SURFACES.

3.02 BASE COURSE AGGREGATE:

A. GENERAL: BASE COURSE AGGREGATE CONSISTS OF PLACING MATERIAL, IN LAYERS OF SPECIFIED THICKNESS, OVER SUBGRADE SURFACE TO SUPPORT A PAVEMENT.

B. GRADE CONTROL: DURING CONSTRUCTION, MAINTAIN LINES AND GRADES INCLUDING CROWN AND CROSS SLOPE OF BASE COURSE AGGREGATE.

C. SHOULDERS: PLACE SHOULDERS ALONG EDGES OF BASE COURSE AGGREGATE TO PREVENT LATERAL MOVEMENT. CONSTRUCT SHOULDERS OF ACCEPTABLE SOIL MATERIALS, PLACED IN SUCH QUANTITY TO COMPACT TO THICKNESS OF EACH BASE COURSE AGGREGATE LAYER. COMPACT AND ROLL AT LEAST A 12 INCH WIDTH OF SHOULDER SIMULTANEOUS WITH THE COMPACTION AND ROLLING OF EACH LAYER OF BASE COURSE AGGREGATE.

D. PLACING: PLACE BASE COURSE AGGREGATE MATERIAL ON PREPARED SUBGRADE IN LAYERS OF UNIFORM THICKNESS, CONFORMING TO INDICATED CROSS SECTION AND THICKNESS. MAINTAIN OPTIMUM MOISTURE CONTENT FOR COMPACTING MATERIAL DURING PLACEMENT OPERATIONS.

1. WHEN A COMPACTED BASE COURSE AGGREGATE IS INDICATED TO BE 6 INCHES THICK OR LESS, PLACE MATERIAL IN A SINGLE LAYER. WHEN INDICATED TO BE MORE THAN 6 INCHES THICK, PLACE MATERIAL IN EQUAL LAYERS, EXCEPT NOT SINGLE LAYER MORE THAN 6 INCHES OR LESS THAN 3 INCHES IN THICKNESS WHEN COMPACTED.

3.03 PLACING MIX:

A. GENERAL: PLACE ASPHALT CONCRETE MIXTURE ON PREPARED BASE COURSE, SPREAD, AND STRIKE OFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225°F (107°C). PLACE INACCESSIBLE AND SMALL AREAS BY HAND. PLACE EACH COURSE TO REQUIRED GRADE, CROSS SECTION, AND COMPACTED THICKNESS.

B. PAVER PLACING: PLACE IN STRIPS NOT LESS THAN 10' WIDE, UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT/OWNER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTEND ROLLING TO OVERLAP PREVIOUS STRIPS. COMPLETE BASE COURSE FOR A SECTION BEFORE PLACING SURFACE COURSE.

1. IMMEDIATELY CORRECT SURFACE IRREGULARITIES IN FINISH COURSE BEHIND PAVER REMOVE EXCESS MATERIAL FORMING HIGH SPOTS WITH SHOVEL OR LUTE.

C. JOINTS: MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN SUCCESSIVE DAYS' WORK, TO ENSURE CONTINUOUS BOND BETWEEN ADJOINING WORK. CONSTRUCT JOINTS TO HAVE SAME TEXTURE, DENSITY, AND SMOOTHNESS AS OTHER SECTIONS OF ASPHALT CONCRETE COURSE. CLEAN CONTACT SURFACES AND APPLY TACK COAT.

3.04 ROLLING:

A. GENERAL: BEGIN ROLLING WHEN MIXTURE WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT.

1. COMPACT MIXTURE WITH HOT HAND TAMPERS OR VIBRATING PLATE COMPACTORS IN AREAS INACCESSIBLE TO ROLLERS.

B. BREAKDOWN ROLLING: ACCOMPLISH BREAKDOWN OR INITIAL ROLLING IMMEDIATELY FOLLOWING ROLLING OF JOINTS AND OUTSIDE EDGE. CHECK SURFACE AFTER BREAKDOWN ROLLING, AND REPAIR DISPLACED AREAS BY LOOSENING AND FILLING, IF REQUIRED, WITH HOT MATERIAL.

C. SECOND ROLLING: FOLLOW BREAKDOWN ROLLING AS SOON AS POSSIBLE, WHILE MIXTURE IS HOT. CONTINUE SECOND ROLLING UNTIL MIXTURE HAS BEEN THOROUGHLY COMPACTED.

D. FINISH ROLLING: PERFORM FINISH ROLLING WHILE MIXTURE IS STILL WARM ENOUGH FOR REMOVAL OF ROLLER MARKS. CONTINUE ROLLING UNTIL ROLLER MARKS ARE ELIMINATED AND COURSE HAS ATTAINED MAXIMUM DENSITY.

E. PATCHING: REMOVE AND REPLACE PAVING AREAS MIXED WITH FOREIGN MATERIALS AND DEFECTIVE AREAS. CUT OUT SUCH AREAS AND FILL WITH FRESH, HOT ASPHALT CONCRETE. COMPACT BY ROLLING TO MAXIMUM SURFACE DENSITY AND SMOOTHNESS.

F. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED.

G. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.

3.05 TRAFFIC AND LANE MARKINGS:

A. CLEANING: SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST.

B. STRIPING: USE ACRYLIC LATEX WATER BASED TRAFFIC LANE MARKING PAINT, FACTORY MIXED, QUICK DRYING, AND NON BLEEDING.

1. COLOR: WHITE UNLESS OTHERWISE NOTED.
2. DO NOT APPLY TRAFFIC AND LANE MARKING PAINT UNTIL LAYOUT AND PLACEMENT HAS BEEN VERIFIED WITH ARCHITECT/OWNER.
3. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PROVIDE MINIMUM 15 MILS DRY THICKNESS.

3.06 WHEEL STOPS:

A. SECURE WHEEL STOPS TO ASPHALT CONCRETE SURFACE WITH NOT LESS THAN TWO 3/4" DIAMETER GALVANIZED STEEL DOWELS EMBEDDED IN PRECAST CONCRETE AT 1/3 POINTS, SIZE LENGTH OF DOWEL TO PENETRATE AT LEAST 12" INTO ASPHALT CONCRETE. DRILL PLACEMENT HOLES OVERSIZE AND EMBED DOWELS IN HOT BITUMINOUS GROUT MATERIAL.

3.07 FIELD QUALITY CONTROL:

A. GENERAL: TEST IN PLACE ASPHALT CONCRETE COURSES FOR COMPLIANCE WITH REQUIREMENTS FOR THICKNESS AND SURFACE SMOOTHNESS. REPAIR OR REMOVE AND REPLACE UNACCEPTABLE PAVING AS DIRECTED BY ARCHITECT/OWNER.

B. THICKNESS: IN PLACE COMPACTED THICKNESS TESTED IN ACCORDANCE WITH ASTM D 3549 WILL NOT BE ACCEPTABLE IF EXCEEDING FOLLOWING ALLOWABLE VARIATION FROM REQUIRED THICKNESS:

1. BASE COURSE: 1/2", PLUS OR MINUS.
2. SURFACE COURSE: 1/4", PLUS OR MINUS.

C. SURFACE SMOOTHNESS: TEST FINISHED SURFACE OF EACH ASPHALT CONCRETE COURSE FOR SMOOTHNESS, USING 10' STRAIGHTEDGE APPLIED PARALLEL WITH, AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREA. SURFACES WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS.

1. BASE COURSE SURFACE: 1/4".
2. WEARING COURSE SURFACE: 1/8".
3. CROWNED SURFACES: TEST WITH CROWNED TEMPLATE CENTERED AND AT RIGHT ANGLE TO CROWN. MAXIMUM ALLOWABLE VARIANCE FROM TEMPLATE, 1/4".

END OF SECTION 6

SECTION 7 - CONCRETE PAVEMENT

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, AND DIVISION SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 SUMMARY

A. EXTENT OF CEMENT CONCRETE PAVEMENT AS INDICATED ON DRAWINGS.

B. REINFORCEMENT OPTION: CONTRACTOR MAY USE EITHER WELDED WIRE MESH OR FIBROUS REINFORCEMENT, UNLESS SPECIFIED BY JURISDICTIONAL AUTHORITY OR ON PLANS.

C. RELATED SECTIONS INCLUDE THE FOLLOWING:

1. SECTION 312000 "EARTH MOVING" FOR SUBGRADE PREPARATION, GRADING, AND SUB-BASE COURSE. SECTION 033000 "CAST-IN-PLACE CONCRETE" FOR GENERAL BUILDING APPLICATIONS OF CONCRETE.
2. SECTION 079200 "JOINT SEALANTS" FOR JOINT SEALANTS WITHIN CONCRETE PAVEMENT AND AT ISOLATION JOINTS OF CONCRETE PAVEMENT WITH ADJACENT CONSTRUCTION.

1.03 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF MANUFACTURED MATERIAL AND PRODUCT INDICATED.

B. DESIGN MIXES: FOR EACH CONCRETE PAVEMENT MIX. INCLUDE ALTERNATE MIX DESIGNS WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.

C. MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE OF THE FOLLOWING WITH REQUIREMENTS INDICATED, BASED ON COMPREHENSIVE TESTING OF CURRENT MATERIALS:

1.04 QUALITY ASSURANCE

A. CODES AND STANDARDS: COMPLY WITH LOCAL GOVERNING REGULATIONS IF MORE STRINGENT THAN HEREIN SPECIFIED.

B. ACI PUBLICATIONS: COMPLY WITH ACI 301,"SPECIFICATION FOR STRUCTURAL CONCRETE," UNLESS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

C. HANDICAP STANDARDS: PROVIDE RAMPS INDICATED FOR HANDICAP ACCESS IN ACCORDANCE WITH ANSI A117 AND FEDERAL AMERICANS WITH DISABILITIES ACT (ADA).

PART 2 - PRODUCTS

2.01 FORMS

A. FORM MATERIALS: PLYWOOD, SMOOTH EXPOSED SURFACES, METAL-FRAMED PLYWOOD, OR OTHER APPROVED PANEL-TYPE MATERIALS TO PROVIDE FULL-DEPTH, CONTINUOUS, STRAIGHT,

B. USE FLEXIBLE OR CURVED FORMS FOR CURVES OF A RADIUS 100 FEET OR LESS.

C. FORM-RELEASE AGENT: COMMERCIALLY FORMULATED FORM-RELEASE AGENT THAT WILL NOT BOND WITH, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES.

D. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF THE FOLLOWING: "DEBOND"; L & M CONSTRUCTION CHEMICALS, INC."RELEASE #1"; THE BURKE CO.

2.02 STEEL REINFORCEMENT

A. PLAIN-STEEL WELDED WIRE FABRIC: ASTM A 185, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.

B. REINFORCEMENT BARS: ASTM A 615/A 615M, GRADE 60, DEFORMED.

C. JOINT DOWEL BARS: PLAIN STEEL BARS, ASTM A 615/A 615M, GRADE 60. CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.

D. PLASTIC EXPANSION CAPS: FURNISH FOR ONE END OF EACH DOWEL BAR IN EXPANSION JOINTS. DESIGN CAPS WITH ONE END CLOSED AND A MINIMUM LENGTH OF 3 INCH TO ALLOW BARS MOVEMENT OF NOT LESS THAN 1 INCH, UNLESS OTHERWISE INDICATED.

E. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCEMENT BARS, WELDED WIRE FABRIC, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OR FIBER-REINFORCED CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE.

2.03 CONCRETE MATERIALS AND ADMIXTURES

A. CONCRETE MATERIALS AND ADMIXTURES: COMPLY WITH REQUIREMENTS OF APPLICABLE DIVISION 3 SECTIONS FOR CONCRETE MATERIALS, ADMIXTURES, BONDING MATERIALS, CURING MATERIALS, AND OTHERS AS REQUIRED.

2.04 FIBER REINFORCEMENT

A. PER ASTM A 820 AND ASTM C94.

2.05 CURING MATERIALS

A. ABSORPTIVE COVER: AASHTO M 182, CLASS 2, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ./SQ. YD. DRY. MOISTURE-RETAINING COVER: ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET.

B. WATER: POTABLE.

C. CLEAR WATERBORNE MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS B. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

1. "SAFE CURE AND SEAL"; DAYTON SUPERIOR CORP. "AQUA CURE VOX"; EUCLID CHEMICAL CO.
2. "DRESS & SEAL WB"; L & M CONSTRUCTION CHEMICALS, INC. "MASTERSEAL W"; MASTER BUILDERS, INC.
3. "VOCOMP 20"; W.R. MEADOWS, INC. "SIKA MEMBRANE"; SIKA CORP. "KURE N SEAL WB', SONNEBORN

2.06 RELATED MATERIALS

A. EXPANSION- AND ISOLATION-JOINT-FILLER STRIPS: COMPLY WITH REQUIREMENTS OF APPLICABLE DIVISION 7 SECTION, "JOINT SEALANTS FOR PREFORMED EXPANSION JOINT FILLERS AND SEALERS."

B. BONDING AGENT: ASTM C 1059, TYPE II, NON-REDISPERSIBLE, ACRYLIC EMULSION OR STYRENE BUTADIENE.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   - "EVERBOND"; L & M CONSTRUCTION CHEMICALS
   - "SONOCRETE"; SONNEBORN
   - "ACRYLIC BONDCRETE"; THE BURKE CO.
   - "SBR LATEX"; EUCLID CHEMICAL CO.
   - "DARAWELD C"; W.R. GRACE
   - "ACRYL SET"; MASTER BUILDERS "LNTERLOK"; W.R. GRACE

C. EPOXY BONDING ADHESIVE: ASTM C 881, TWO-COMPONENT EPOXY RESIN, CAPABLE OF HUMID CURING AND BONDING TO DAMP SURFACES, OF CLASS AND GRADE TO SUIT REQUIREMENTS, AND AS FOLLOWS:

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   - "THIOPOXY"; W.R. GRACE
   - "SIKADUR 32 HI MOD"; SIKA CHEMICAL CORP.
   - "EUCO EPOXY 452 OR 620"; EUCLIC CHEMICAL CO.
   - "EPOXY M V"; THE BURKE CO.
   - "EPABOND"; L & M CONSTRUCTION CHEMICALS
   - "CONCRESIVE 1001"; MASTER BUILDERS

D. PENETRATING ANTI STALLING SEALER: THE SEALER SHALL BE A SILANE WATER BASED COMPOUND WHICH HAS A 96% CHLORIDE ION SCREEN AND A REPELLENCY FACTOR OF 92% WHEN TESTED IN ACCORDANCE WITH NCHRP #244, TEST METHOD. IN ADDITION, THE SEALER TREATED CONCRETE MUST EXHIBIT NO SCALING WHEN EXPOSED TO 120 CYCLES OF FREEZING AND THAWING IN ACCORDANCE WITH ASTM C 672.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   - "ENVIROSEAL 20"; HYDROZO INCORP.
   - "PENTANE WB"; L & M CONSTRUCTION CHEMICALS, INC.
   - "WEATHER WORKER S 20"; DAYTON SUPERIOR CORP.

2.07 CONCRETE MIXES

A. PREPARE DESIGN MIXES, PROPORTIONED ACCORDING TO ACI 211.1 AND ACI 301, FOR EACH TYPE AND STRENGTH OF NORMAL-WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIXES OR FIELD EXPERIENCE.

B. EXCEPT AS INDICATED IN DIVISION 3, PROPORTION MIXES TO PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:

1. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.45. SLUMP LIMIT: 4 INCHES.
2. ADD AIR-ENTRAINING ADMIXTURE AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AN AIR CONTENT OF 5 TO 8 PERCENT.

2.08 CONCRETE MIXING

A. READY-MIXED CONCRETE: COMPLY WITH REQUIREMENTS AND WITH ASTM C 94.

PART 3 - EXECUTION PREPARATION

A. PROOF-ROLL PREPARED SUB-BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND VERIFY NEED FOR ADDITIONAL COMPACTION. PROCEED WITH PAVEMENT ONLY AFTER NONCONFORMING AREAS HAVE BEEN CORRECTED AND SUBGRADE IS READY TO RECEIVE PAVEMENT.

B. REMOVE LOOSE MATERIAL FROM COMPACTED SUB-BASE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.

3.01 EDGE FORMS AND SCREED CONSTRUCTION

A. SET, BRACE, AND SECURE EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED GUIDES FOR PAVEMENT TO REQUIRED LINES, GRADES, AND ELEVATIONS.

B. INSTALL FORMS TO ALLOW CONTINUOUS PROGRESS OF WORK AND SO FORMS CAN REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE PLACEMENT.

C. CLEAN FORMS AFTER EACH USE AND COAT WITH FORM RELEASE AGENT TO ENSURE SEPARATION FROM CONCRETE WITHOUT DAMAGE.

3.02 STEEL REINFORCEMENT

A. LOCATE, PLACE, AND SUPPORT REINFORCEMENT AS SPECIFIED IN DIVISION 3 SECTION, "CONCRETE," UNLESS OTHERWISE INDICATED.

B. GENERAL: CONSTRUCT CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGINGS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED.

1. WHEN JOINING EXISTING PAVEMENT, PLACE TRANSVERSE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS, UNLESS OTHERWISE INDICATED.

C. CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVEMENT AND AT LOCATIONS WHERE PAVEMENT OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR, UNLESS PAVEMENT TERMINATES AT ISOLATION JOINTS.

1. PROVIDE PREFORMED GALVANIZED STEEL OR PLASTIC KEYWAY-SECTION FORMS OR BULKHEAD FORMS WITH KEYS, UNLESS OTHERWISE INDICATED. EMBED KEYS AT LEAST 1-1/2 INCHES INTO CONCRETE.
2. CONTINUE REINFORCEMENT ACROSS CONSTRUCTION JOINTS, UNLESS OTHERWISE INDICATED.
3. USE EPOXY BONDING ADHESIVE AT LOCATIONS WHERE FRESH CONCRETE IS PLACED AGAINST HARDENED OR PARTIALLY HARDENED CONCRETE SURFACES.

D. ISOLATION JOINTS: FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, WALKS, OTHER FIXED OBJECTS, AND WHERE INDICATED.

1. LOCATE EXPANSION JOINTS AT INTERVALS OF 50 FEET, UNLESS OTHERWISE INDICATED.
2. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT.
3. TERMINATE JOINT FILLER LESS THAN 1/2 INCH OR MORE THAN 1 INCH BELOW FINISHED SURFACE IF JOINT SEALANT IS INDICATED.
4. FURNISH JOINT FILLERS IN ONE-PIECE LENGTHS. WHERE MORE THAN ONE LENGTH IS REQUIRED, LACE OR CLIP JOINT-FILLER SECTIONS TOGETHER.
5. PROTECT TOP EDGE OF JOINT FILLER DURING CONCRETE PLACEMENT WITH METAL, PLASTIC, OR OTHER TEMPORARY PREFORMED CAP. REMOVE PROTECTIVE CAP AFTER CONCRETE HAS BEEN PLACED ON BOTH SIDES OF JOINT.
6. INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR ASPHALT-COAT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT.

E. CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS:

F. GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVER TOOL.

G. SAWED JOINTS: FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH-WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE DEVELOPING RANDOM CONTRACTION CRACKS.

H. EDGING: TOOL EDGES OF PAVEMENT, GUTTERS, CURBS, AND JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL.

3.03 CONCRETE PLACEMENT

A. REMOVE SNOW, ICE, OR FROST FROM SUB-BASE SURFACE AND REINFORCEMENT BEFORE PLACING CONCRETE. DO NOT PLACE CONCRETE ON FROZEN SURFACES.

B. MOISTEN SUB-BASE TO PROVIDE A UNIFORM DAMPENED CONDITION AT THE TIME CONCRETE IS PLACED. DO NOT PLACE CONCRETE AROUND MANHOLES OR OTHER STRUCTURES UNTIL THEY ARE AT THE REQUIRED FINISH ELEVATION AND ALIGNMENT.

C. COMPLY WITH REQUIREMENTS AND WITH RECOMMENDATIONS IN ACI 304R FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT.

E. DEPOSIT AND SPREAD CONCRETE IN A CONTINUOUS OPERATION BETWEEN TRANSVERSE JOINTS. DO NOT PUSH OR DRAG CONCRETE INTO PLACE OR USE VIBRATORS TO MOVE CONCRETE INTO PLACE.

F. CONSOLIDATE CONCRETE BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING, OR TAMPING. USE EQUIPMENT AND PROCEDURES TO CONSOLIDATE CONCRETE ACCORDING TO RECOMMENDATIONS IN ACI 309R.

G. CONSOLIDATE CONCRETE ALONG FACE OF FORMS AND ADJACENT TO TRANSVERSE JOINTS WITH AN INTERNAL VIBRATOR. KEEP VIBRATOR AWAY FROM JOINT ASSEMBLIES, REINFORCEMENT, OR SIDE FORMS. USE ONLY SQUARE-FACED SHOVELS FOR HAND-SPREADING AND CONSOLIDATION. CONSOLIDATE WITH CARE TO PREVENT DISLOCATING REINFORCEMENT, DOWELS, AND JOINT DEVICES.

H. PLACE CONCRETE IN TWO OPERATIONS; STRIKE OFF INITIAL POUR FOR ENTIRE WIDTH OF PLACEMENT AND TO THE REQUIRED DEPTH BELOW FINISH SURFACE. LAY WELDED WIRE FABRIC OR FABRICATED BAR MATS IMMEDIATELY IN FINAL POSITION. PLACE TOP LAYER OF CONCRETE, STRIKE OFF, AND SCREED.

I. REMOVE AND REPLACE PORTIONS OF BOTTOM LAYER OF CONCRETE THAT HAVE BEEN PLACED MORE THAN 15 MINUTES WITHOUT BEING COVERED BY TOP LAYER, OR USE BONDING AGENT IF APPROVED BY ARCHITECT/OWNER.

J. SCREED PAVEMENT SURFACES WITH A STRAIGHTEDGE AND STRIKE OFF. COMMENCE INITIAL FLOATING USING BULL FLOATS OR DARBIES TO FORM AN OPEN TEXTURED AND UNIFORM SURFACE PLANE BEFORE EXCESS MOISTURE OR BLEED WATER APPEARS ON THE SURFACE. DO NOT FURTHER DISTURB CONCRETE SURFACES BEFORE BEGINNING FINISHING OPERATIONS OR SPREADING DRY-SHAKE SURFACE TREATMENTS.

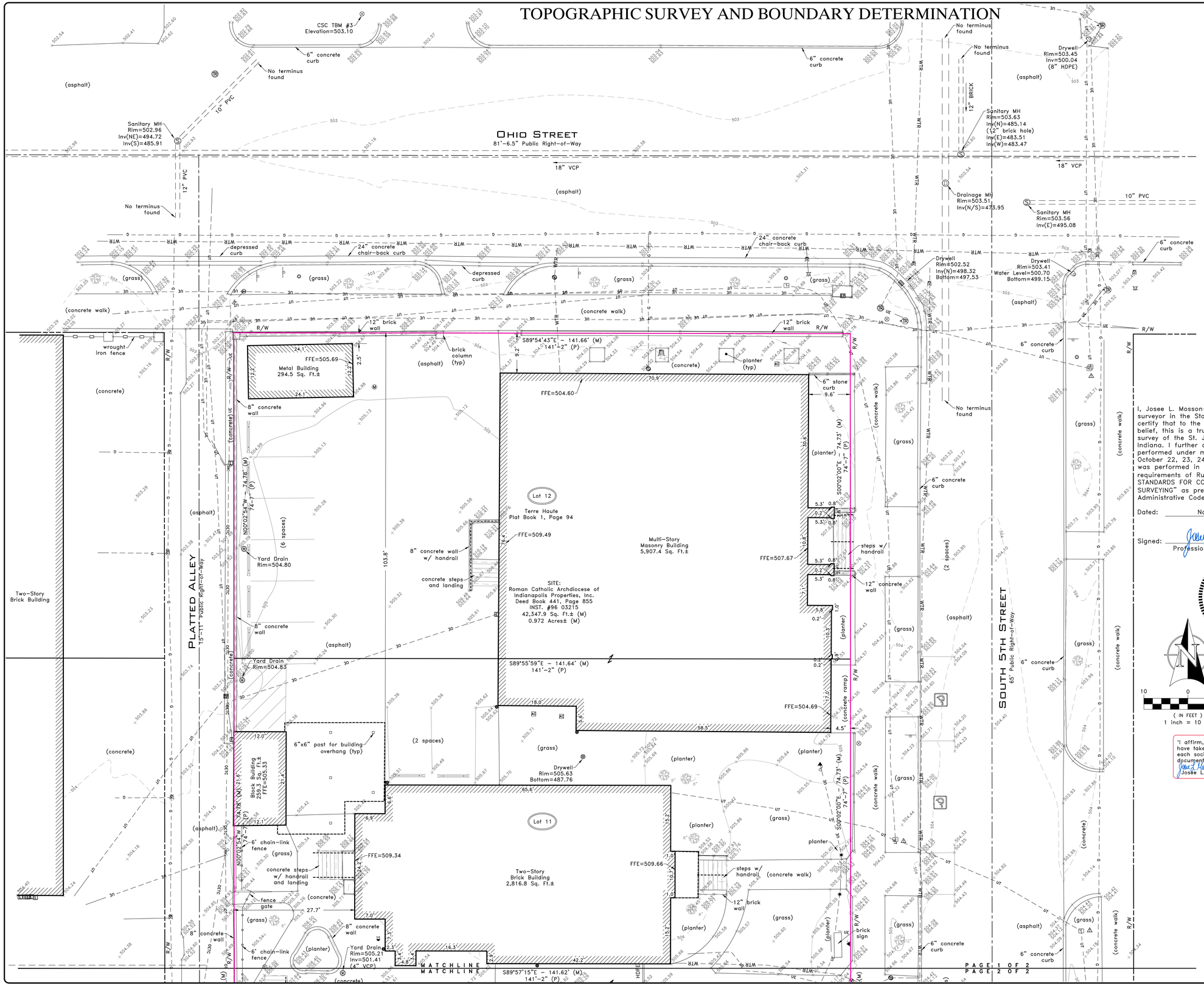
K. CURBS AND GUTTERS: WHEN AUTOMATIC MACHINE PLACEMENT IS USED FOR CURB AND GUTTER PLACEMENT, SUBMIT REVISED MIX DESIGN AND LABORATORY TEST RESULTS THAT MEET OR EXCEED REQUIREMENTS. PRODUCE CURBS AND GUTTERS TO REQUIRED CROSS SECTION, LINES, GRADES, FINISH, AND JOINTING AS SPECIFIED FOR FORMED CONCRETE. IF RESULTS ARE NOT APPROVED, REMOVE AND REPLACE WITH FORMED CONCRETE.

3.04 CONCRETE FINISHING

A. GENERAL: WETTING OF CONCRETE SURFACES DURING SCREEDING, INITIAL FLOATING, OR FINISHING OPERATIONS IS PROHIBITED.

B. FLOAT F

TOPOGRAPHIC SURVEY AND BOUNDARY DETERMINATION



LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	SPRINKLER CONTROL VALVE
	TELE/FIBER OPTIC/GAS MARKER
	WATER/SANITARY MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND

12" / 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
FM	UNDG. FORCE MAIN
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

VERTICAL DATUM:

CGS B 293 1956 ELEVATION 506.30 (NAVD 88) PID KA1108

A DISK SET VERTICALLY IN THE NORTH FACE OF WATER TABLE COURT HOUSE, 128.5 FEET WEST OF THE WEST CURB OF THIRD STREET, 65 FEET SOUTH OF THE SOUTH CURB OF WABASH AVENUE, 1.75 FEET WEST OF THE NORTHEAST CORNER OF SAID BUILDING, AND 3.5 FEET ABOVE THE SIDEWALK.

CSC TBM #2 ELEVATION 504.34

A MAG NAIL WITH WASHER SET IN THE NORTHEAST CORNER OF AN ASPHALT PARKING LOT, LOCATED 32.8 FEET SOUTH OF THE CENTERLINE OF WALNUT STREET AND 200.9 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.

CSC TBM #3 ELEVATION 503.10

A CUT "X" SET ON A CONCRETE SIDE WALK, LOCATED 32.3 FEET NORTH OF THE CENTERLINE OF OHIO STREET AND 144.7 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.

LAND DESCRIPTION

LAND DESCRIPTION
(from Deed Book 441, Page 855, Instrument Number 96 03215)

Lots 9, 10, 11 & 12 in Original Town of Terre Haute.

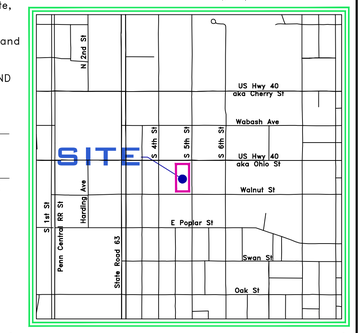
I, Josee L. Masson-Baum, a registered land surveyor in the State of Indiana, do hereby certify that to the best of my knowledge and belief, this is a true and correct topographic survey of the St. Joseph Parish in Terre Haute, Indiana. I further certify that this survey was performed under my direct supervision on October 22, 23, 24 and November 13, 2024 and was performed in accordance with the requirements of Rule 12 of the "MINIMUM STANDARDS FOR COMPETENT PRACTICES OF LAND SURVEYING" as prescribed by Indiana Administrative Code 865, 1.1-12.

Dated: November 15, 2024

Signed: Josee L. Masson-Baum
Professional Surveyor No. 22400012

JOSEE L. MASSON-BAUM REGISTERED No. 22400012 STATE OF INDIANA LAND SURVEYOR

VICINITY MAP
NOT TO SCALE



10 0 5 10
(IN FEET)
1 inch = 10 ft.

"I affirm, under penalties for perjury, I have taken reasonable care to redact each social security number in this document, unless required by law."
Josee L. Masson-Baum

IUPPS - 811 TICKET REQUEST NUMBER(S):

2410140692, 2410140712, 2410140699, 2410140650

UTILITY STATEMENT:

The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of paint markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The paint markings shown hereon as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
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INDIANAPOLIS, INDIANA 46202

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NORTH SALEM, INDIANA 46165
PHONE: 317-858-8662 FAX: 317-342-2857

CENTRAL STATES CSC CONSULTING, LLC
SURVEYING & LAND PLANNING

TOPOGRAPHIC SURVEY AND BOUNDARY DETERMINATION
101, 113, 115 SOUTH 5TH STREET
TERRE HAUTE, INDIANA

DATE:	11-15-2024
DWN. BY:	JLMB
CHKD. BY:	DRM
SCALE:	1" = 10'

PROJECT NUMBER
24-076

SHEET 1 OF 2

TOPOGRAPHIC SURVEY AND BOUNDARY DETERMINATION

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
WV FH	WATER VALVE/FIRE HYD/METER
SV	SPRINKLER CONTROL VALVE
TF TO GM	TELE/FIBER OPTIC/GAS MARKER
WM	WATER/SANITARY MARKER
GM GV	GAS METER / VALVE
	CLEAN-OUT
E	ELEC. METER BOX/TRANSFORMER
EP TP	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
AC EXH	AIR CONDITIONER / GENERATOR
M M	MAGNAIL SET/FOUND
R R	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
TP	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND

12" / 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
D S	DRAINAGE /SANITARY MANHOLE
C L	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
FM	UNDG. FORCE MAIN
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

VERTICAL DATUM:

CGS B 293 1956 ELEVATION 506.30 (NAVD 88) PID KA1108

A DISK SET VERTICALLY IN THE NORTH FACE OF WATER TABLE COURT HOUSE, 128.5 FEET WEST OF THE WEST CURB OF THIRD STREET, 65 FEET SOUTH OF THE SOUTH CURB OF WABASH AVENUE, 1.75 FEET WEST OF THE NORTHEAST CORNER OF SAID BUILDING, AND 3.5 FEET ABOVE THE SIDEWALK.

CSC TBM #2 ELEVATION 504.34

A MAG NAIL WITH WASHER SET IN THE NORTHEAST CORNER OF AN ASPHALT PARKING LOT, LOCATED 32.8 FEET SOUTH OF THE CENTERLINE OF WALNUT STREET AND 200.9 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.

CSC TBM #3 ELEVATION 503.10

A CUT "X" SET ON A CONCRETE SIDE WALK, LOCATED 32.3 FEET NORTH OF THE CENTERLINE OF OHIO STREET AND 144.7 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.

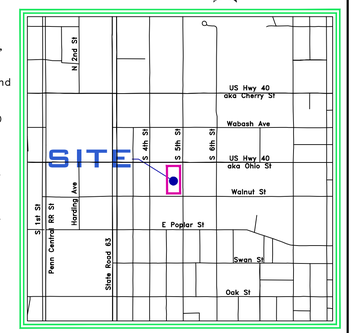
10 0 5 10
(IN FEET)
1 inch = 10 ft.

LAND DESCRIPTION

LAND DESCRIPTION
(from Deed Book 441, Page 855, Instrument Number 96 03215)

Lots 9, 10, 11 & 12 in Original Town of Terre Haute.

VICINITY MAP
NOT TO SCALE



I, Josee L. Mosson-Baum, a registered land surveyor in the State of Indiana, do hereby certify that to the best of my knowledge and belief, this is a true and correct topographic survey of the St. Joseph Parish in Terre Haute, Indiana. I further certify that this survey was performed under my direct supervision on October 22, 23, 24 and November 13, 2024 and was performed in accordance with the requirements of Rule 12 of the "MINIMUM STANDARDS FOR COMPETENT PRACTICES OF LAND SURVEYING" as prescribed by Indiana Administrative Code 865, 1.1-12.

Dated: November 15, 2024

Signed: Josee L. Mosson-Baum
Professional Surveyor No. 22400012

JOSEE L. MOSSON-BAUM REGISTERED No. 22400012 STATE OF INDIANA LAND SURVEYOR

"I affirm, under penalties for perjury, I have taken reasonable care to redact each social security number in this document, unless required by law."
Josee L. Mosson-Baum

IUPPS - 811 TICKET REQUEST NUMBER(S):

2410140692, 2410140712, 2410140699, 2410140650

UTILITY STATEMENT:

The underground utilities shown have been located from field survey information and existing drawings. Field survey information consisting of paint markings found on the ground per the Indiana Underground Plant Protection Service (IUPPS - 811). The paint markings shown hereon as evidence of probable underground utility locations and are consistent with typical utility markings. However, no utility report was provided to authenticate these markings. The user of this plat/map should rely upon such markings at their own risk. The surveyor makes no guarantees the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant the underground utilities shown are in the exact location indicated, although the surveyor does certify they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

PREPARED FOR:
LANDWORX ENGINEERING, LLC
958 EAST WASHINGTON STREET, SUITE 100
INDIANAPOLIS, INDIANA 46202

PREPARED BY: DONALD R. MOSSON
CENTRAL STATES CONSULTING, LLC
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13 WEST PEARL STREET
NORTH SALEM, INDIANA 46165
PHONE: 317-858-8662 FAX: 317-342-2857

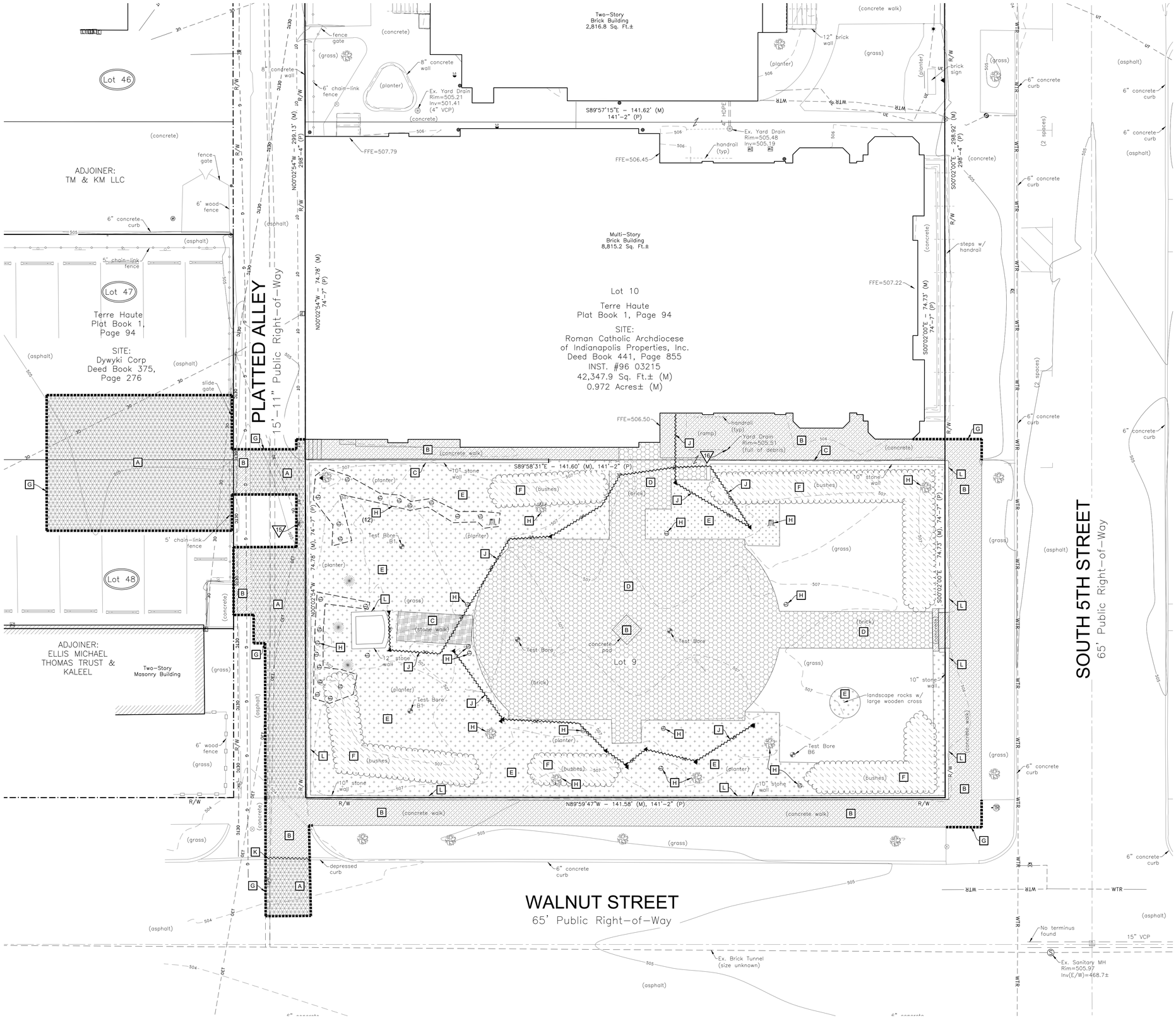
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DATE:	11-15-2024
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PROJECT NUMBER 24-076

SHEET 2 OF 2



DEMOLITION LEGEND:

	DESCRIPTION:	NOTE:
A	ASPHALT TO BE REMOVED	
B	CONCRETE TO BE REMOVED	
C	STONE TO BE REMOVED	
D	BRICK TO BE REMOVED	
E	LANDSCAPING TO BE REMOVED	
F	BUSHES TO BE REMOVED	
G	SAW CUT	
H	TREE TO BE REMOVED	
J	UNDERGROUND UTILITY TO BE REMOVED	
K	CURB TO BE REMOVED	
L	STONE WALL TO BE REMOVED	

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO A LOCATION SPECIFIED BY THE OWNER OR THEIR REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE PERMISSION OF THE OWNER OR THEIR REPRESENTATIVE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHAT ITEMS MAY BE SALVAGED. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR SHALL NOT USE EXPLOSIVES OR BURN DEBRIS.
7. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS, OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSONS TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT SURROUNDING STRUCTURES, UTILITIES, AND OTHER FACILITIES FROM DAMAGE DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS AND BASEMENTS, SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS. EACH LIFT SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, OR IF SUCH REPORT IS UNAVAILABLE, TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR METHOD +/- 3% OF OPTIMUM MOISTURE CONTENT.
12. UTILITIES SHALL BE REMOVED AND THE TRENCHES BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR TO A MINIMUM OF 95 % OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR METHOD +/- 3 % OF OPTIMUM MOISTURE CONTENT.
13. TRANSPORT DEMOLITION MATERIAL TO AN INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PERMITTED LANDFILL.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.
15. CONTRACTOR SHALL ENSURE THAT STRUCTURAL INTEGRITY OF THE POWER POLE IS MAINTAINED THROUGHOUT CONSTRUCTION.
16. CONTRACTOR SHALL CLEAN STRUCTURE AND LOCATE CONNECTED PIPES AND COORDINATE WITH DESIGN ENGINEER PRIOR TO CONSTRUCTION.

UTILITY DISCLAIMER:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

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EVAN WEST
REGISTERED
No. 12500044
STATE OF
INDIANA
PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

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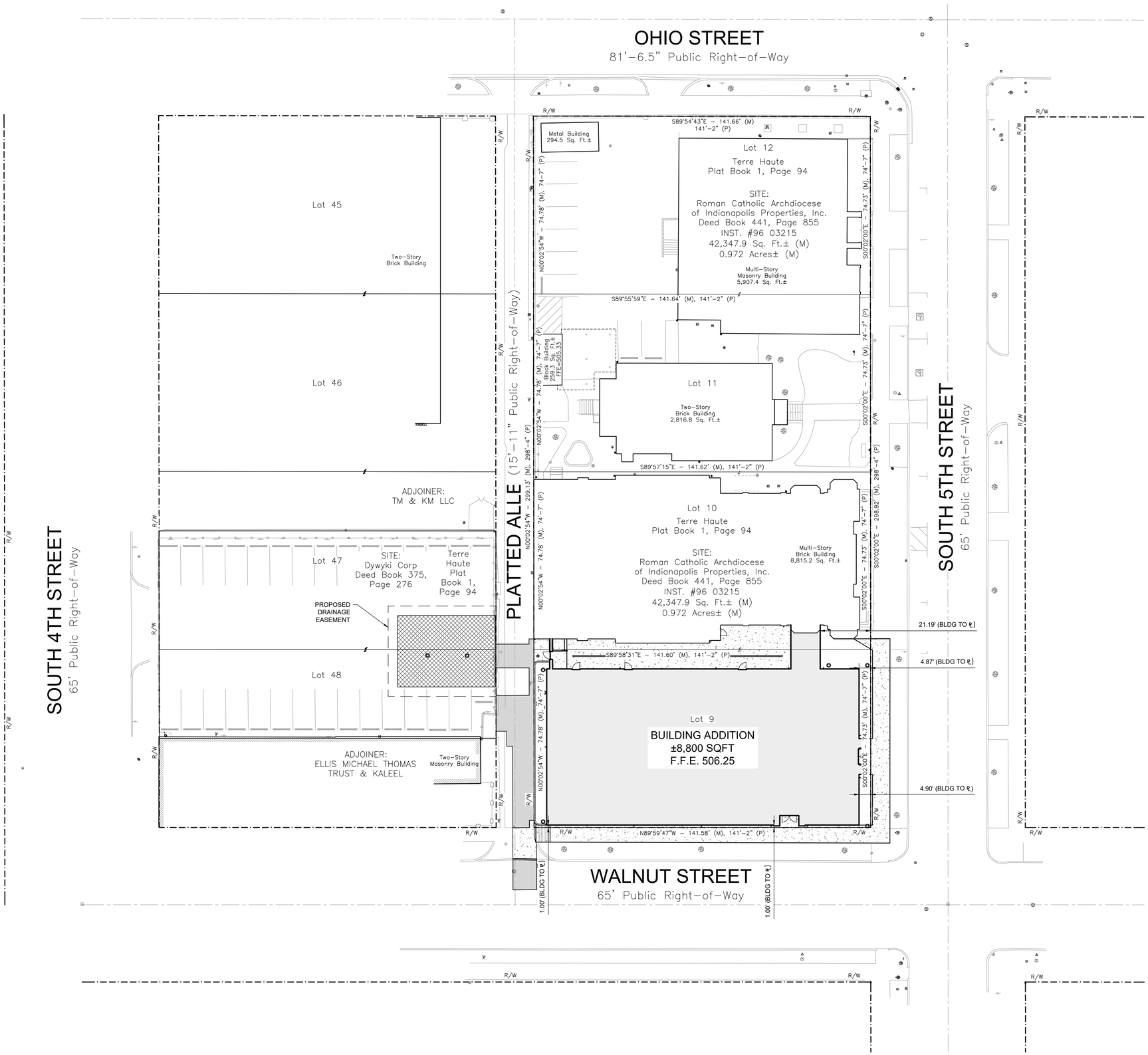
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

DEMOLITION PLAN

C110



NORTH

20 0 10 20

(IN FEET)
1 inch = 20ft.

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St. Joseph University Catholic Parish
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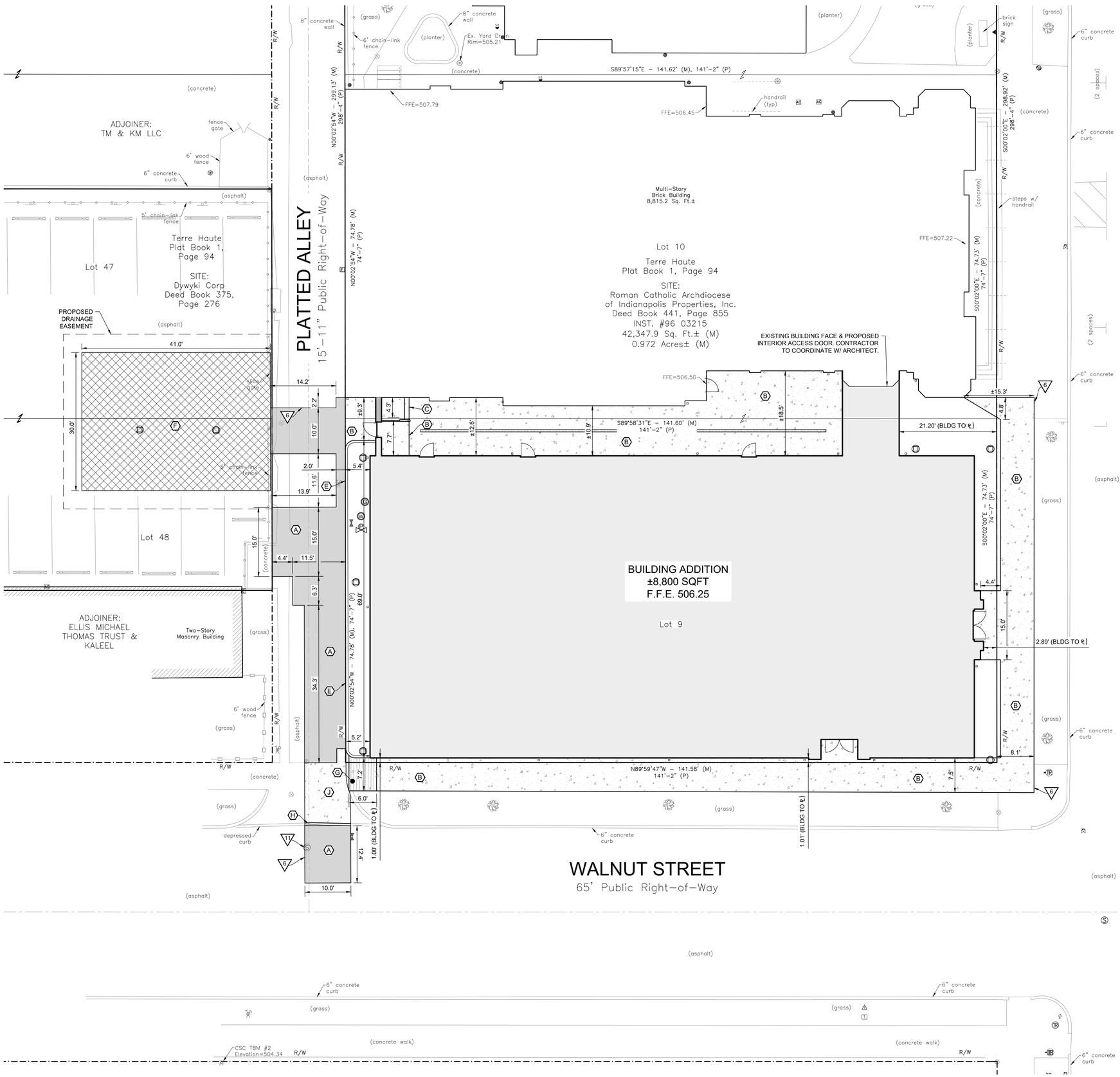
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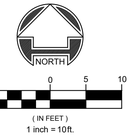
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2024.012

OVERALL SITE PLAN

C200





PROPOSED SITE LEGEND:

	DESCRIPTION:	DETAIL SHEET
A	RIGHT OF WAY ASPHALT PAVEMENT	C702/NOTE 12
B	CONCRETE SIDEWALK	C700
C	STEPS	C310
E	CONCRETE STRAIGHT CURB	C700
F	HEAVY DUTY ASPHALT	C700
G	ACCESSIBLE RAMP	C703
H	DEPRESSED CURB	C700
J	RIGHT OF WAY CONCRETE	C702/NOTE 12
#	SHEET NOTE	

SITE LAYOUT NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. ALL PARKING STRIPES ARE TO BE 4" PAINTED WHITE. UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS, OR SPECIFICATIONS.
3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, WHERE APPLICABLE.
4. ALL DIMENSIONS TO BUILDING ARE TO THE OUTSIDE FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
6. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING AREAS AS NECESSARY. ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.
7. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SODDED/SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS BEEN PLANTED.
8. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS HAVE DAMAGED EXISTING PAVEMENT, LAWNS OR OTHER IMPROVEMENTS DURING CONSTRUCTION, AFTER CONSTRUCTION WORK IS COMPLETE.
9. ALL UTILITY TRENCHES WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR BACKFILL.
10. ALL RADII INDICATED SHALL BE CONSTRUCTED AS CIRCULAR ARCS.
11. CONTRACTOR SHALL REPAIR CONCRETE COLLAR AS NEEDED.
12. CONTRACTOR SHALL CONFIRM WITH TERRE HAUTE DEPARTMENT OF PUBLIC WORKS WHICH PAVEMENT SECTION IS REQUIRED

SITE DATA:

BUILDING DATA:

BUILDING AREA:	8,800 SQFT (FOOTPRINT)
PROPERTY AREA:	± 0.97ACRES (42,350 SF)

ZONING DATA:

PROPOSED USE:	C-8 CENTRAL BUSINESS DISTRICT(RELIGIOUS)
ZONING DISTRICT:	GENERAL BUSINESS

ADJACENT ZONING CLASSIFICATIONS:

NORTH:	COMMERCIAL
SOUTH:	COMMERCIAL
EAST:	COMMERCIAL
WEST:	COMMERCIAL

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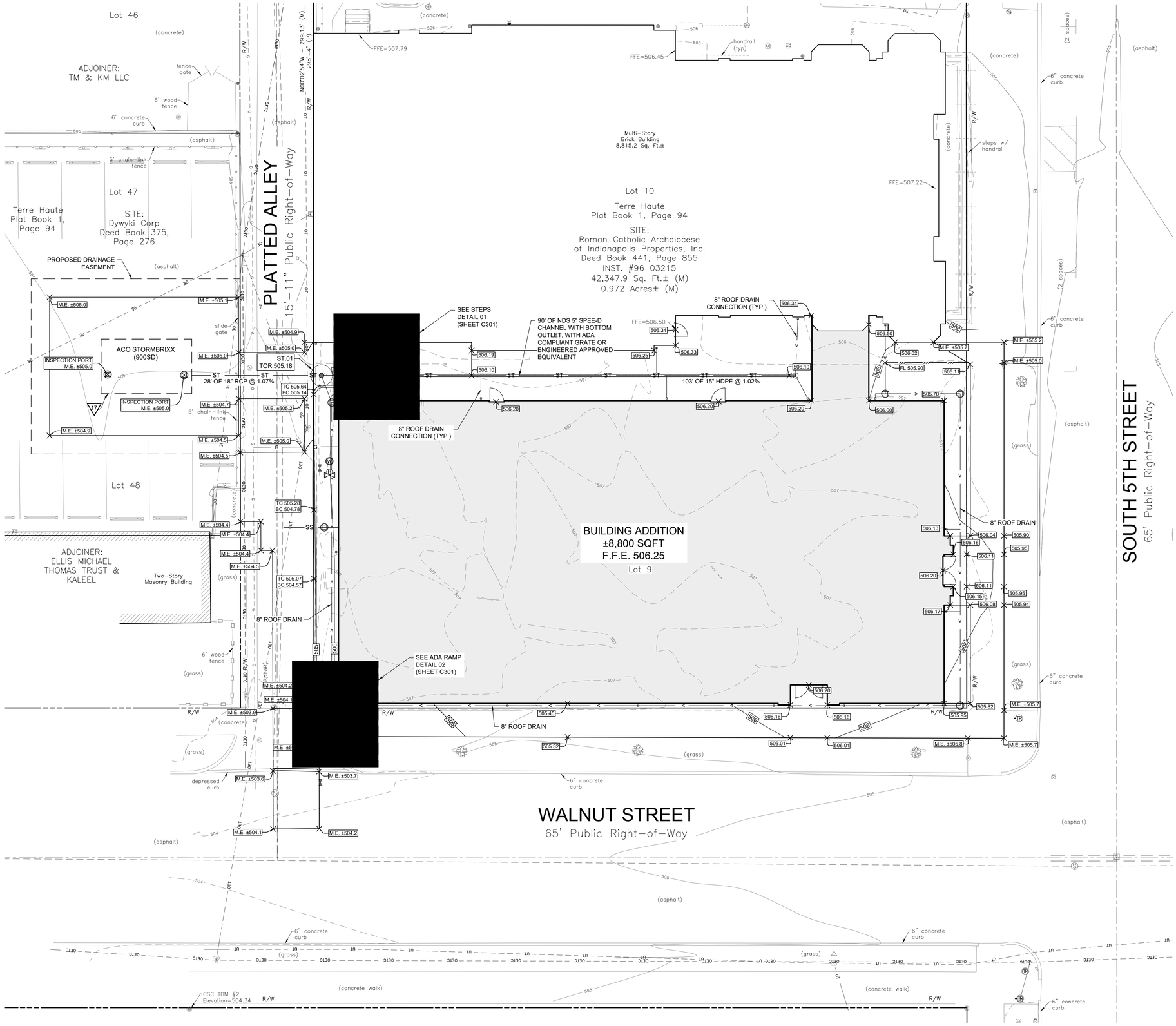
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

SITE PLAN

C210



NORTH

10 0 5 10

(IN FEET)
1 inch = 10ft.

PROPOSED GRADING LEGEND:

	DESCRIPTION:	ABBREVIATIONS
713.00	PROPOSED SPOT	TC = TOP OF CURB
TC 712.50 BC 712.00	PROPOSED CURB ELEVATION	BC = BOTTOM OF CURB
800	PROPOSED CONTOUR	TOR = TOP OF RIM (PAVEMENT ELEVATION)
800	EXISTING CONTOUR	INV = STORM INVERT
	PROPOSED GRADE BREAK	FL = FLOWLINE
	PROPOSED FLOWLINE	ME = MATCH EXISTING
	DRAINAGE ARROW	TS = TOP OF STEP
ST	PROPOSED STORM SEWER	BS = BOTTOM OF STEP

	DESCRIPTION:	DETAIL #/SH. #
	PROPOSED ROOFDRAIN	C700
	PROPOSED STORM MANHOLE	C700

GRADING NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
5. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH ENGINEERED GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
6. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS, AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, "BIRD BATH" CONDITIONS.
7. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
8. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
9. FLOW LINE ELEVATIONS ARE GIVEN AT END OF CONCRETE END SECTIONS.
10. TOR = TOP OF RIM AND REFLECTS PAVEMENT GRADE.
11. NO STORM WATER SHALL BE ROUTED THROUGH THE DETENTION FACILITY UNTIL THE BMP IS INSTALLED AND FULLY FUNCTIONAL AND ALL CONSTRUCTION EROSION CONTROL FOR DISTURBED AREAS ARE INSTALLED TO ENSURE NO SEDIMENT BUILD-UP IN THE UNDERGROUND DETENTION STORAGE FACILITY. THE EROSION CONTROL METHODS AND BMP'S MUST BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRED OR CLEANED WHERE NECESSARY.
12. THE BENCH WALLS FOR STORM MANHOLES AND INLETS SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U' SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM $\frac{1}{4}$ INCH PER FOOT SLOPE TO THE MANHOLE WALL.
13. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS 'STORM SEWER' CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.
14. INLET CASTINGS SHALL HAVE THE WORDS 'NO DUMPING. DRAINS TO STREAM' CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
15. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS, LATEST EDITION.
16. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
17. CONTRACTOR SHALL EXCAVATE TO SUBGRADE. PRIOR TO INSTALLATION OF UNDERGROUND DETENTION SYSTEM. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER TO CONDUCT TESTS TO ENSURE ADEQUATE INFILTRATION RATES. TEST RESULTS SHOULD BE CONVEYED TO DESIGN ENGINEER TO ENSURE DESIGN ASSUMPTIONS ARE SUFFICIENT.

UTILITY DISCLAIMER:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

BENCHMARK DATA:

CGS B 293 1956	ELEVATION 506.30 (NAVD 88)
A DISK SET VERTICALLY IN THE NORTH FACE OF WATER TABLE COURT HOUSE, 128.5 FEET WEST OF THE WEST CURB OF SOUTH STREET, 65 FEET SOUTH OF THE NORTHEAST CORNER OF SAID BUILDING, AND 3.5 FEET ABOVE THE SIDEWALK.	
CSC TBM #2	ELEVATION 504.34
A MAG NAIL WITH WASHER SET IN THE NORTHEAST CORNER OF AN ASPHALT PARKING LOT, LOCATED 32.8 FEET SOUTH OF THE CENTERLINE OF WALNUT STREET AND 200.9 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.	
CSC TBM #3	ELEVATION 503.10
A CUT "X" SET ON A CONCRETE SIDE WALK, LOCATED 32.3 FEET NORTH OF THE CENTERLINE OF OHIO STREET AND 144.7 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.	

UNDERGROUND DETENTION:

ACO STORMBRIXX (900SD) 1.5 LAYER
PROVIDED STORAGE: 1,021 CUBIC FEET
ACO STORMBRIXX TANK INV: 498.42'

PONDING ELEVATIONS
2 YEAR: 500.62'
10 YEAR: 501.39'
25 YEAR: 501.83'
100 YEAR: 502.51'

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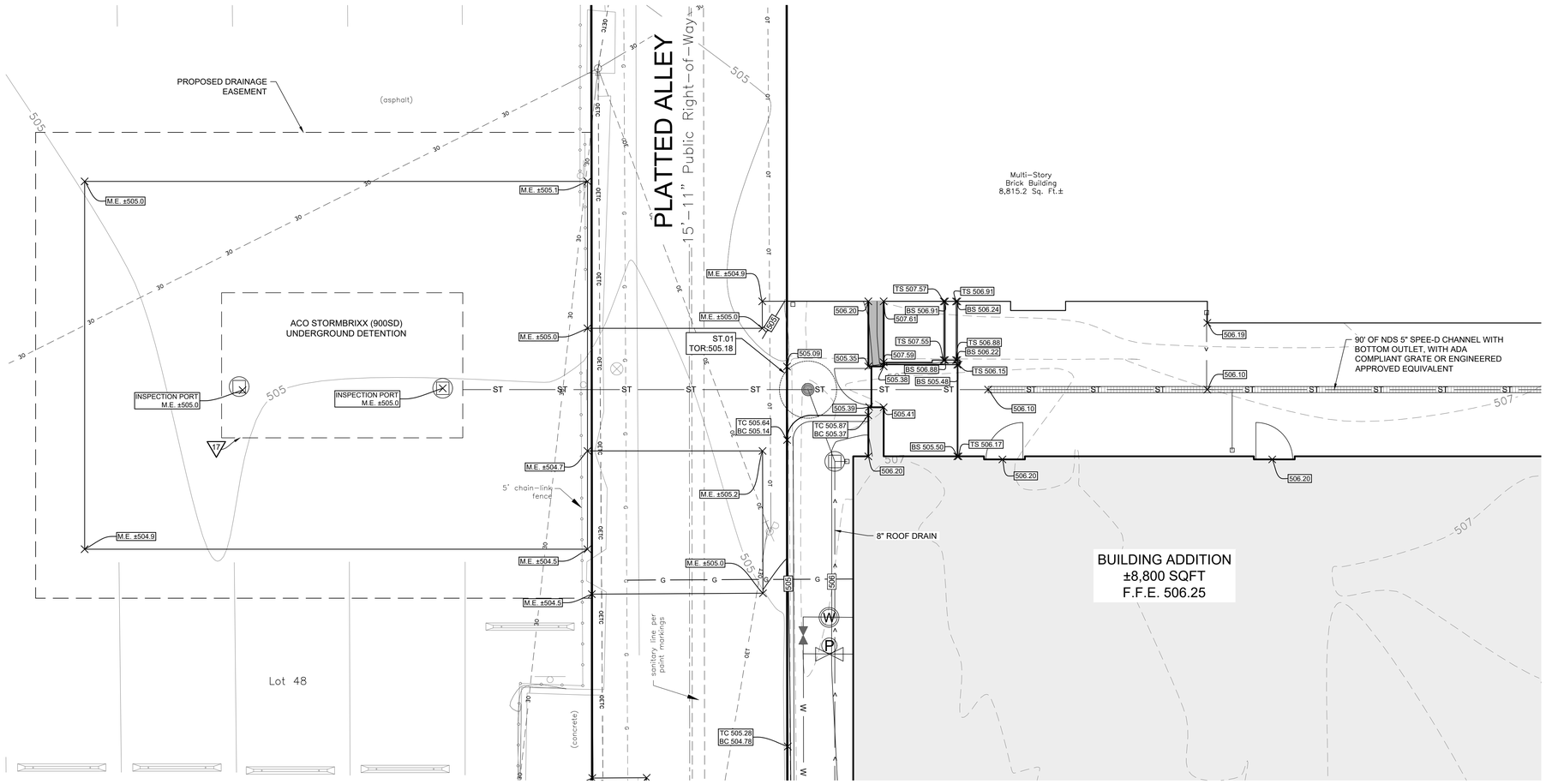
St. Joseph University Catholic Parish
New Parish Hall

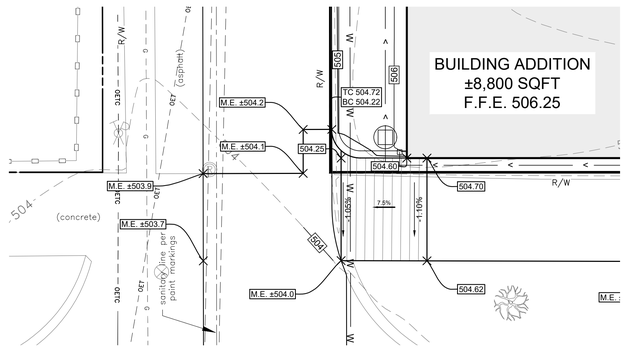
113 South 5th Street
Terre Haute, Indiana 47807

2024.012

GRADING PLAN

C300





STEPS DETAIL 01

HORIZONTAL SCALE: 1" = 5'

ADA RAMP DETAIL 02

HORIZONTAL SCALE: 1" = 5'

UNDERGROUND DETENTION:

ACO STORMBRIXX (900SD) 1.5 LAYER
PROVIDED STORAGE: 1,021 CUBIC FEET
ACO STORMBRIXX TANK INV: 498.42'

PONDING ELEVATIONS
2 YEAR: 500.62'
10 YEAR: 501.39'
25 YEAR: 501.83'
100 YEAR: 502.51'

NORTH

10 0 5 10
(IN FEET)
1 inch = 10ft.

PROPOSED GRADING LEGEND:

DESCRIPTION:		ABBREVIATIONS
713.00	PROPOSED SPOT	TC = TOP OF CURB
TC 712.50 BC 712.00	PROPOSED CURB ELEVATION	BC = BOTTOM OF CURB
800	PROPOSED CONTOUR	TOR = TOP OF RIM (PAVEMENT ELEVATION)
800	EXISTING CONTOUR	INV = STORM INVERT
	PROPOSED GRADE BREAK	FL = FLOWLINE
	PROPOSED FLOWLINE	ME = MATCH EXISTING
	DRAINAGE ARROW	TS = TOP OF STEP
ST	PROPOSED STORM SEWER	BS = BOTTOM OF STEP

DESCRIPTION:		DETAIL #/SH. #
	PROPOSED ROOFDRAIN	C700
	PROPOSED STORM MANHOLE	C700

GRADING NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
5. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH ENGINEERED GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
6. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS, AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, "BIRD BATH" CONDITIONS.
7. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
8. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
9. FLOW LINE ELEVATIONS ARE GIVEN AT END OF CONCRETE END SECTIONS.
10. TOR = TOP OF RIM AND REFLECTS PAVEMENT GRADE.
11. NO STORM WATER SHALL BE ROUTED THROUGH THE DETENTION FACILITY UNTIL THE BMP IS INSTALLED AND FULLY FUNCTIONAL AND ALL CONSTRUCTION EROSION CONTROL FOR DISTURBED AREAS ARE INSTALLED TO ENSURE NO SEDIMENT BUILD-UP IN THE UNDERGROUND DETENTION STORAGE FACILITY. THE EROSION CONTROL METHODS AND BMP'S MUST BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRED OR CLEANED WHERE NECESSARY.
12. THE BENCH WALLS FOR STORM MANHOLES AND INLETS SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U' SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM $\frac{1}{4}$ INCH PER FOOT SLOPE TO THE MANHOLE WALL.
13. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS 'STORM SEWER' CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.
14. INLET CASTINGS SHALL HAVE THE WORDS 'NO DUMPING. DRAINS TO STREAM' CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
15. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS, LATEST EDITION.
16. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CITY OF TERRE HAUTE STANDARDS AND SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
17. CONTRACTOR SHALL EXCAVATE TO SUBGRADE, PRIOR TO INSTALLATION OF UNDERGROUND DETENTION SYSTEM. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER TO CONDUCT TESTS TO ENSURE ADEQUATE INFILTRATION RATES. TEST RESULTS SHOULD BE CONVEYED TO DESIGN ENGINEER TO ENSURE DESIGN ASSUMPTIONS ARE SUFFICIENT.

UTILITY DISCLAIMER:

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BENCHMARK DATA:

CGS B 293 1956	ELEVATION 506.30 (NAVD 88)
A DISK SET VERTICALLY IN THE NORTH FACE OF WATER TABLE COURT HOUSE, 128.5 FEET WEST OF THE WEST CURB OF SOUTH STREET, 65 FEET SOUTH OF THE NORTHEAST CORNER OF SAID BUILDING, AND 3.5 FEET ABOVE THE SIDEWALK.	
CSC TBM #2	ELEVATION 504.34
A MAG NAIL WITH WASHER SET IN THE NORTHEAST CORNER OF AN ASPHALT PARKING LOT, LOCATED 32.8 FEET SOUTH OF THE CENTERLINE OF WALNUT STREET AND 200.9 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.	
CSC TBM #3	ELEVATION 503.10
A CUT "X" SET ON A CONCRETE SIDE WALK, LOCATED 32.3 FEET NORTH OF THE CENTERLINE OF OHIO STREET AND 144.7 FEET WEST OF THE CENTERLINE OF SOUTH 5TH STREET.	

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317.616.0177

EVAN WES REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

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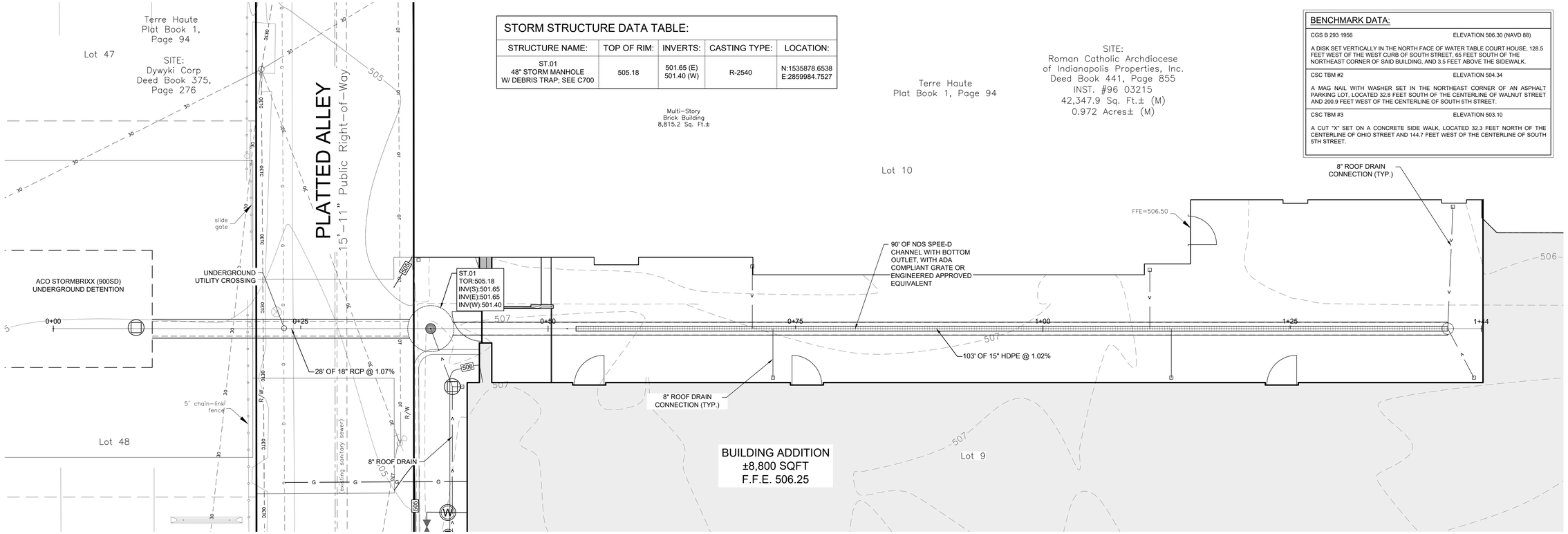
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New Parish Hall

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2024.012

DETAILED GRADING PLAN

C301



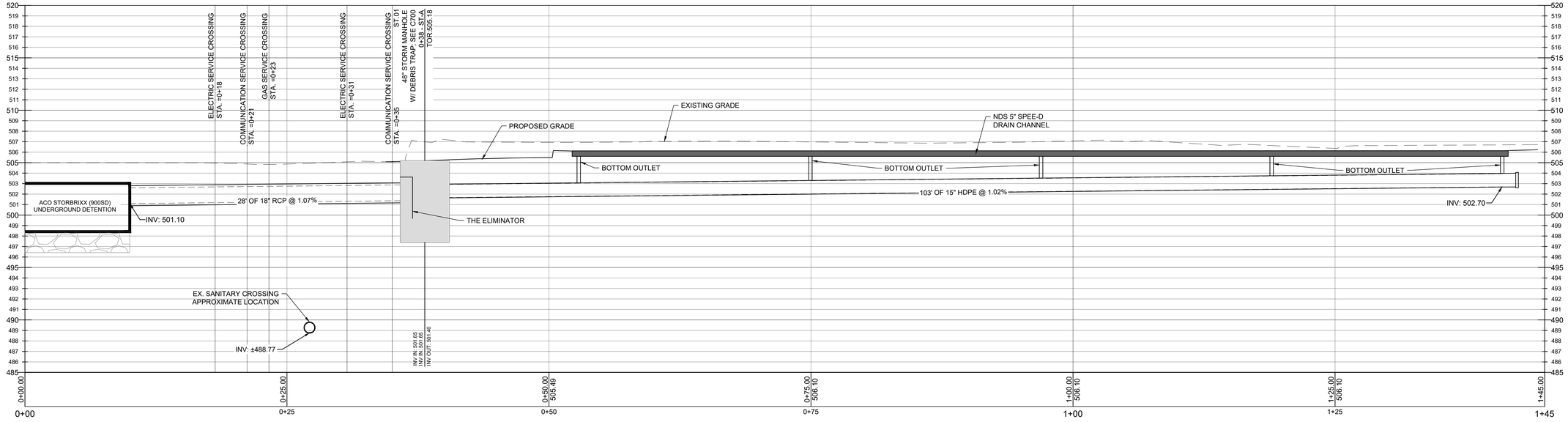
STORM STRUCTURE DATA TABLE:				
STRUCTURE NAME:	TOP OF RIM:	INVERTS:	CASTING TYPE:	LOCATION:
ST.01 48" STORM MANHOLE W/ DEBRIS TRAP; SEE C700	505.18	501.65 (E) 501.40 (W)	R-2540	N:1535878.6538 E:2859984.7527

BENCHMARK DATA:	
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A DISK SET VERTICALLY IN THE NORTH FACE OF WATER TABLE COURT HOUSE, 128.5 FEET WEST OF THE WEST CURB OF SOUTH STREET, 65 FEET SOUTH OF THE NORTHEAST CORNER OF SAID BUILDING, AND 3.5 FEET ABOVE THE SIDEWALK.	
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NORTH

STORM PLAN & PROFILE

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'



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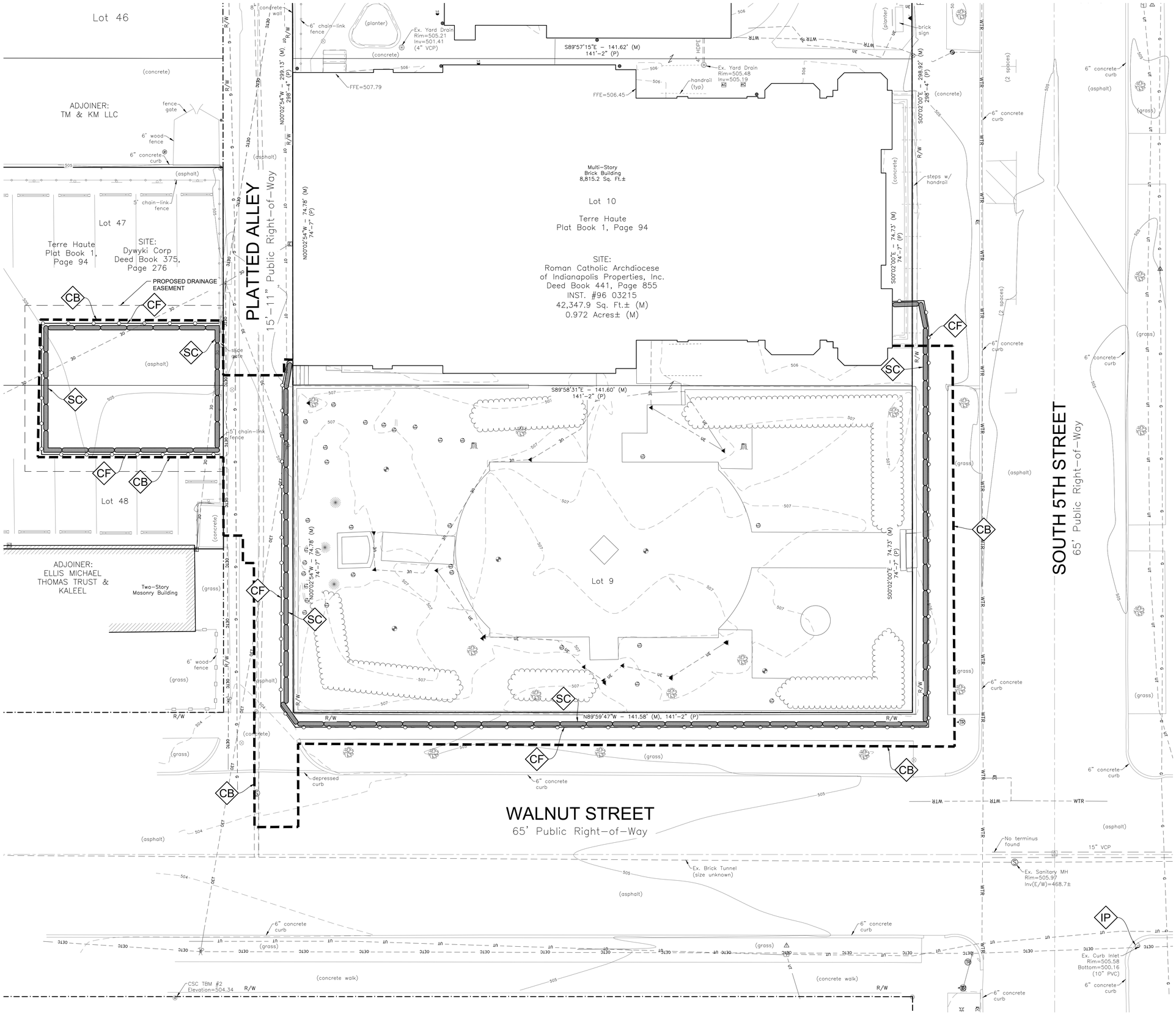
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

STORM PLAN AND PROFILE

C310



PROPERTY AREA: ±0.97 ACRES
DISTURBED AREA: ±0.26ACRES
OFFSITE DISTURBED AREA: ±0.10 ACRES
TOTAL DISTURBED AREA: ±0.36

NORTH
10 0 5 10
(IN FEET)
1 inch = 10ft.

EROSION CONTROL LEGEND:

DESCRIPTION & CALL SYMBOL:		DETAIL SHEET
CONSTRUCTION ENTRANCE	CE	C410
CONSTRUCTION STAGING AREA	SA	C410
CONCRETE WASHOUT AREA	WA	C410
INSERT INLET PROTECTION	IP	C410
TEMPORARY CHAIN LINK FENCE	CF	
SEDIMENT CONTROL TUBE	SC	C410
PERMANENT SEEDING	PS	C410
CONSTRUCTION BOUNDARY	CB	
SILT FENCE	SF	

EROSION CONTROL NOTES:

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2. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
4. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
5. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
6. SEDIMENT BEING TRACED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
7. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND REDISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
8. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
9. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON-SITE.
10. SCHEDULE OF EARTHWORK ACTIVITIES:

    THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.

    TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIME OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
11. INFORM ALL GENERAL CONTRACTORS, CONSTRUCTION MANAGEMENT FIRMS, GRADING OR EXCAVATING CONTRACTORS, AND ALL OTHER CONTRACTORS WITH PRIMARY OVERSIGHT ON INDIVIDUAL BUILDING LOTS OF THE TERMS AND CONDITIONS OF THE STORM WATER RULE 5 AND THE CONDITIONS AND STANDARDS OF THIS EROSION CONTROL PLAN, SCHEDULE FOR IMPLEMENTATION, AND THE CONSTRUCTION SITE EROSION CONTROL PLAN REPORT.
12. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CSGP, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
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14. THE SITE WILL NOT REQUIRE DEWATERING ACTIVITIES. IN THE EVENT THAT DEWATERING IS REQUIRED, THE CONTRACTOR SHALL IMPLEMENT DEWATERING AS NECESSARY.
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EVAN WEST REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

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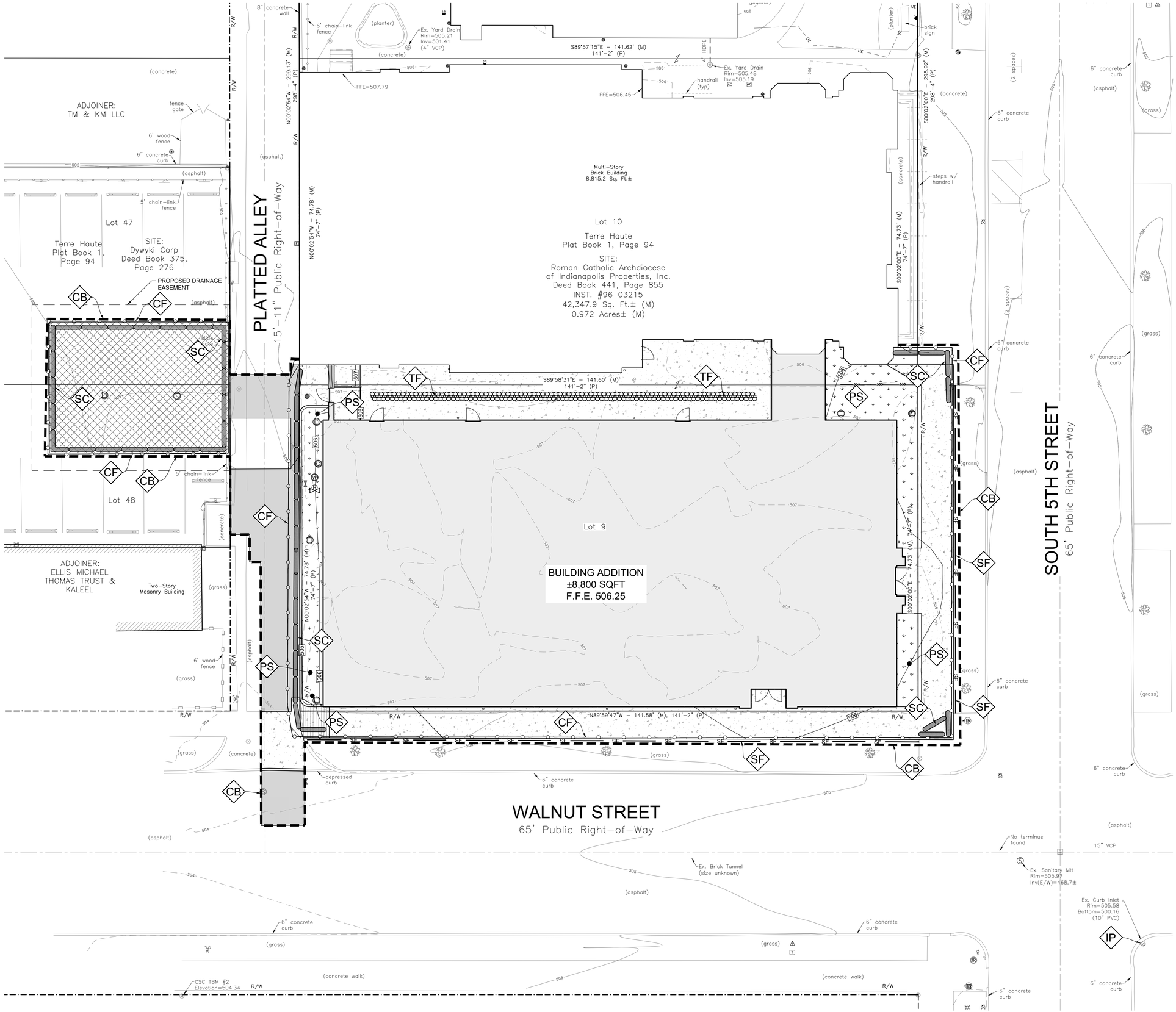
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PRE-CONSTRUCTION EROSION CONTROL PLAN

2024.012

C400



PROPERTY AREA: ±0.97 ACRES
DISTURBED AREA: ±0.26ACRES
OFFSITE DISTURBED AREA: ±0.10 ACRES
TOTAL DISTURBED AREA: ±0.36

NORTH

10 0 5 10

(IN FEET)
1 inch = 10ft.

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INSERT INLET PROTECTION	IP	C410
TEMPORARY CHAIN LINK FENCE	CF	
SEDIMENT CONTROL TUBE	SC	C410
PERMANENT SEEDING	PS	C410
CONSTRUCTION BOUNDARY	CB	
SILT FENCE	SF	
TRENCH DRAIN FILTER	TF	C410

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Revision Date

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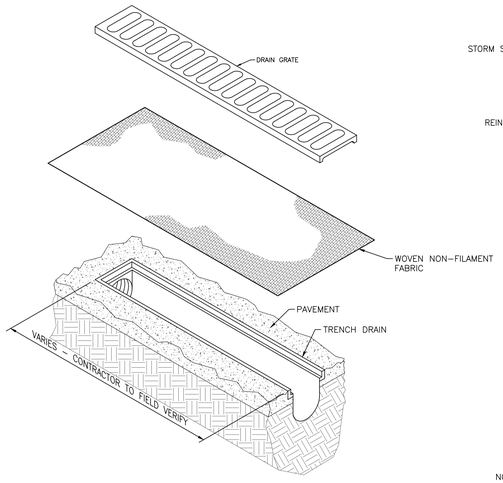
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

CONSTRUCTION
EROSION CONTROL PLAN

C401

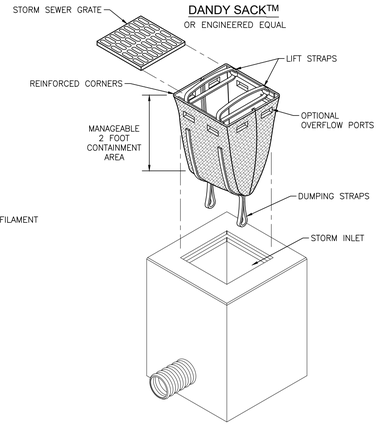


INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION
1. REMOVE THE GRATE FROM THE TRENCH DRAIN.
2. IF USING OPTION OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT.
3. CUT FABRIC TO PROVIDE A MINIMUM 1 1/2" OVERLAP WITH GRATE WHEN INSTALLED.
4. LAY FABRIC FLAT OVER TRENCH DRAIN.
5. INSTALL GRATE IN TRENCH DRAIN WHILE ENSURING FABRIC IS SECURELY IN PLACE.

MAINTENANCE
- INSPECT DAILY.
- REMOVE ALL ACCUMULATED SEDIMENT AFTER EACH STORM EVENT. DISPOSE OF SEDIMENT IN AN AREA WHERE IT WILL NOT REENTER THE PAVED AREA OR STORM DRAINS. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET BY USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION.

TRENCH DRAIN FILTER



NOTE: THE DANDY CURB SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC.

INSTALLATION AND MAINTENANCE GUIDELINES

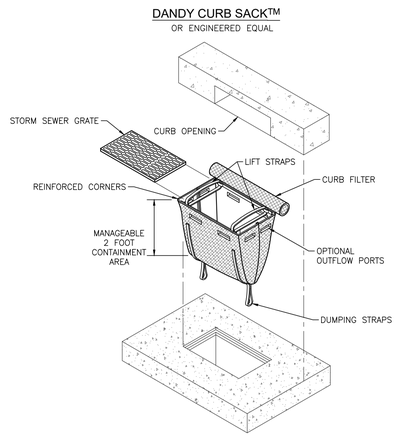
INSTALLATION
1. REMOVE THE GRATE FROM THE CATCH BASIN.
2. IF USING OPTION OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT.
3. STAND THE GRATE ON END, MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS.
4. HOLDING THE LIDTING DEVICES, INSTER THE GRATE INTO THE INLET.

MAINTENANCE
- INSPECT DAILY.
- REMOVE ALL ACCUMULATED SEDIMENT AFTER EACH STORM EVENT. DISPOSE OF SEDIMENT IN AN AREA WHERE IT WILL NOT REENTER THE PAVED AREA OR STORM DRAINS. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET BY USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION. CONTACT: 708-867-8446
- WHEN CONTRIBUTING DRAINAGE AREA HAD BEEN STABILIZED, REMOVE INLET PROTECTION.

INSERT (BAG) INLET PROTECTION

INLET PROTECTION DETAILS

NOT TO SCALE



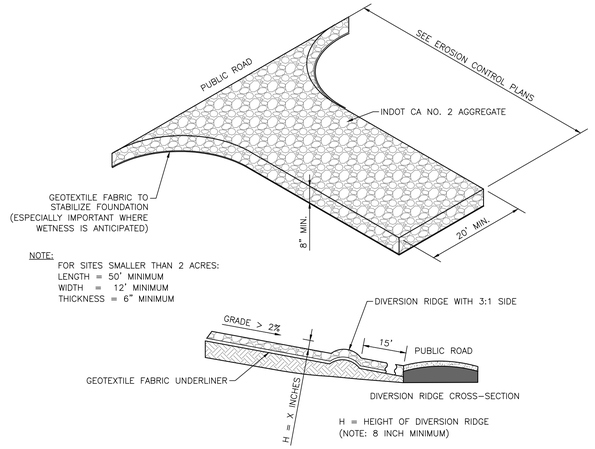
NOTE: THE DANDY CURB SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC.

INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION
1. REMOVE THE GRATE FROM THE CATCH BASIN.
2. IF USING OPTION OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT.
3. STAND THE GRATE ON END, MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS.
4. HOLDING THE LIDTING DEVICES, INSTER THE GRATE INTO THE INLET.
5. MAKE SURE THE CYLINDRICAL PORTION IS UP AGAINST THE CURB OPENING TO PREVENT SILT AND DEBRIS FROM ENTERING THE INLET.

MAINTENANCE
- INSPECT DAILY.
- REMOVE ALL ACCUMULATED SEDIMENT AFTER EACH STORM EVENT. DISPOSE OF SEDIMENT IN AN AREA WHERE IT WILL NOT REENTER THE PAVED AREA OR STORM DRAINS. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET BY USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION. CONTACT: 708-867-8446
- WHEN CONTRIBUTING DRAINAGE AREA HAD BEEN STABILIZED, REMOVE INLET PROTECTION.

INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER



NOTE:
FOR SITES SMALLER THAN 2 ACRES:
LENGTH = 50' MINIMUM
WIDTH = 12' MINIMUM
THICKNESS = 6" MINIMUM

DIVERSION RIDGE CROSS-SECTION

H = HEIGHT OF DIVERSION RIDGE
(NOTE: 8 INCH MINIMUM)

INSTALLATION:

1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. IF THE SLOPE OF THE CONSTRUCTION ENTRANCE IS TOWARD A PUBLIC ROAD AND EXCEEDS TWO PERCENT, CONSTRUCT AN EIGHT INCH HIGH DIVERSION RIDGE WITH A RATIO OF 3-TO-1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE AGGREGATE (INDOT CA NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. TOP-DRESS THE FIRST 50 FEET ADJACENT TO THE PUBLIC ROADWAY WITH TWO TO THREE INCHES OF WASHED AGGREGATE (INDOT CA NO. 53) [OPTIONAL, USED PRIMARILY WHERE THE PURPOSED OF THE PAD IS KEEP SOIL FROM ADHERING TO VEHICLE TIRES]
7. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE INGRESS,/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

MAINTENANCE:

- INSPECT DAILY.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
- FLUSHING SHOULD ONLY BE USED IF THE WATER CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD

NOT TO SCALE

SOIL STABILIZATION MIX		
SPECIES	COMMON NAME	OZ./ACRE
GRASSES AND SEDGES		
ANDROPOGON GERARDII	BIG BLUESTEM	32
BOUTELOUA CURTIPENDULA	SIDE-OATS GRAMA	16
CAREX BREVIOR	PLAINS OVAL SEDGE	2
ELYMUS CANADENSIS	CANADA WILD RYE	48
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	32
PANICUM VIRGATUM	SWITCHGRASS	14
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	32
SORGHASTRUM NUTANS	INDIAN GRASS	32
COVER CROP		
AVENA SATIVA	SEED OATS	800
LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	160

SEED PREPARATION

- APPLY LIME TO RAISE THE PH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 POUNDS OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER 1000 SQ. FT. (APPROXIMATELY 1000 POUNDS PER ACRE) OR FERTILIZE ACCORDING TO TEST. APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH.
- WORK THE FERTILIZER AND LIME INTO THE SOIL TO A DEPTH OF 2-3 INCHES WITH A HARROW, DISK OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE.

SEEDING

- SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA (SEE LANDSCAPE/PLANTING PLANS WHEN APPLICABLE). WHILE CONSIDERING BEST SEEDING DATES. IF PERMANENT SEEDING IS NOT PERMITTED USE TEMPORARY SEEDING UNTIL PERMANENT SEEDING CAN BE APPLIED.

TEMPORARY SEEDINGS			
TYPE OF SEED	1000 SQ. FT.	ACRE	REMARKS
WHEAT OR RYE	3.5 LBS.	2 BUSHELS	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BUSHELS	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LBS.	COVER SEED 1/4" DEEP

NOTE: NOT NECESSARY WHERE MULCH IS APPLIED.

SEASONAL SOIL PROTECTION CHART												
STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
*PERMANENT SEEDING		A	▬	▬	▬			A	▬	▬		
**DORMANT SEEDING	▬	▬	A								A	▬
TEMPORARY SEEDING		B D	▬	▬	▬			C	▬	▬		

A. REFER TO SPECIFICATIONS FOR PERMANENT SEEDING MIXTURE. FERTILIZE AS RECOMMENDED BY SOIL TEST, IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

B. SPRING OATS 3 BUSHELS/ACRE (2.3LBS./1000 SQ FT.) FERTILIZE AS RECOMMENDED BY SOIL TEST, IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

C. WHEAT OR RYE 2 BUSHELS/ACRE (3.5LBS./1000 SQ FT.) FERTILIZE AS RECOMMENDED BY SOIL TEST, IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

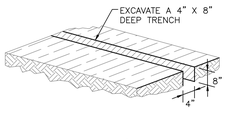
D. ANNUAL RYEGRASS 40LBS./ACRE (1LB./1000 SQ FT.)

* IRRIGATION NEEDED DURING JUNE, JULY, AUGUST, AND SEPTEMBER
** INCREASE SEEDING APPLICATION BY 50%

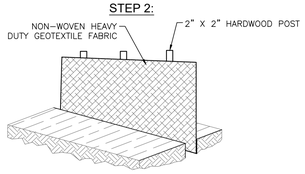
SEEDING SCHEDULE

NOT TO SCALE

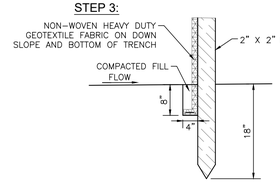
STEP 1:



STEP 2:



STEP 3:



SECTION

INSTALLATION:

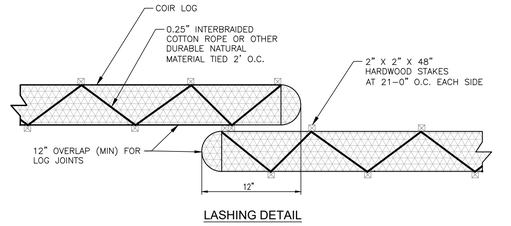
1. LAY OUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH.
5. LAY THE LOWER FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

NOTE:
IF THE SILT FENCE IS BEING CONSTRUCTED ON-SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

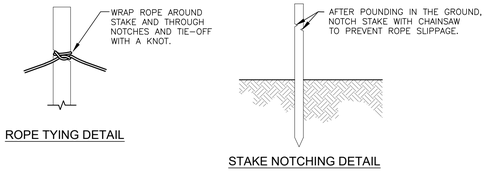
MAINTENANCE:
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
  - NOTE: ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.

SILT FENCE

NOT TO SCALE



LASHING DETAIL

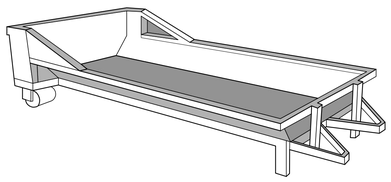


ROPE TYING DETAIL

STAKE NOTCHING DETAIL

SEDIMENT CONTROL TUBE

NOT TO SCALE



INSTALLATION AND MAINTENANCE GUIDELINES

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS
- USE PER MANUFACTURE'S SPECIFICATIONS
- UTILIZE AND FOLLOW THE REQUIREMENTS IN THE STORM WATER & POLLUTION PREVENTION PLAN.
- CONTAINER SHALL BE PLACED ON A LEVEL GRAVEL PAD OF THE SAME MATERIAL AS THE CONSTRUCTION ENTRANCE AND OF EQUAL OR GREATER DIMENSIONS THAN THE DIMENSIONS OF THE CONTAINER.
- WHEN NOT IN USE, SECURE A TARP OVER THE WASHOUT CONTAINER.
- IF CONTAINER IS NOT WATER-TIGHT, A POLYETHYLENE LINING SHALL BE USED TO CONTAIN ALL LIQUIDS
- INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
- PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
- INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
- POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
- PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE
- INSPECT DAILY AND AFTER EACH STORM EVENT.
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
- INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
- IF USED, INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
- EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
- THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DEWATERING.
- PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
- INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

CONSRETE WASHOUT ROLL OFF CONTAINER

NOT TO SCALE

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EVAN WES REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date

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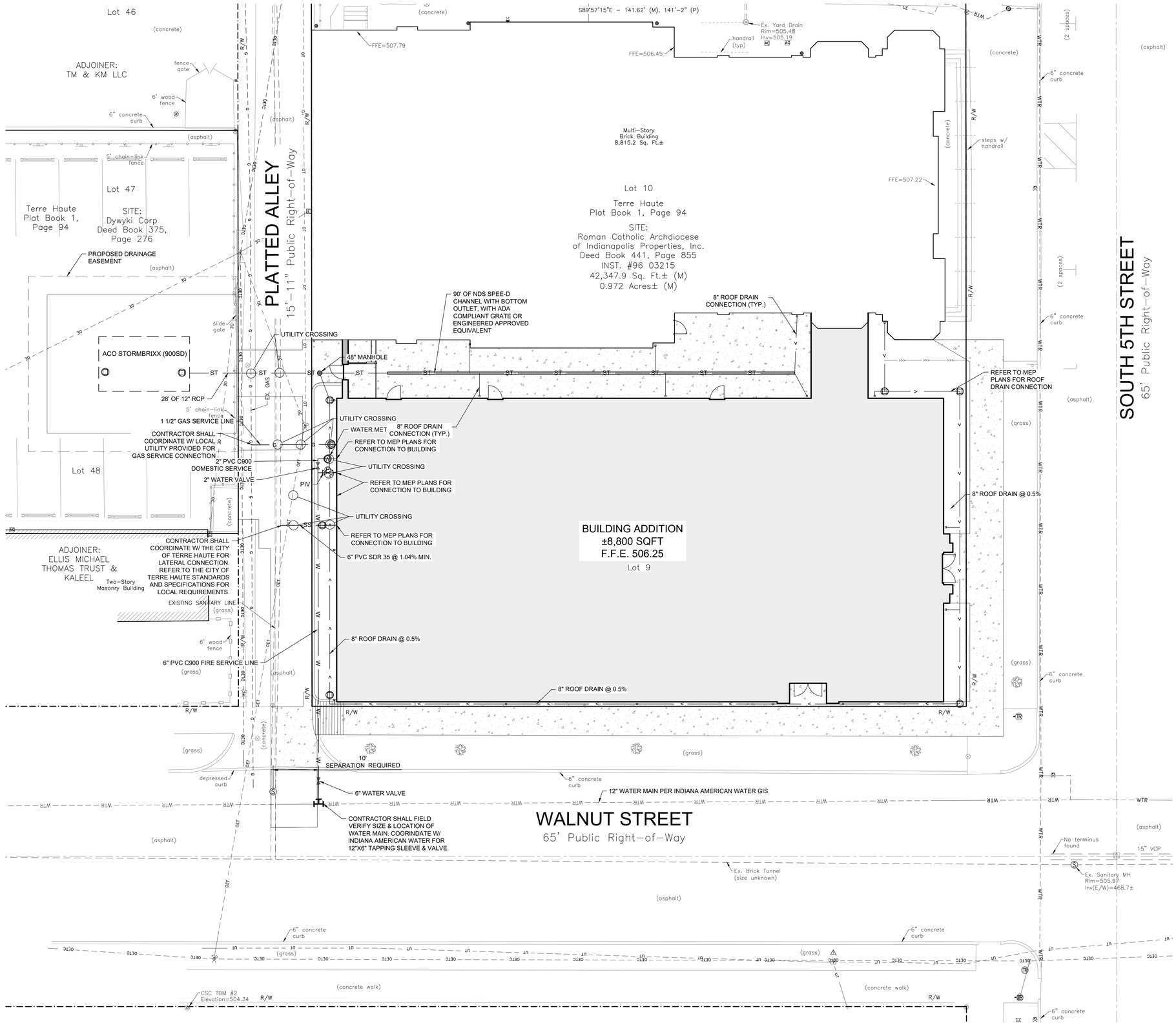
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

EROSION CONTROL DETAILS

C410



NORTH

10 0 5 10

(IN FEET)
1 inch = 10ft.

UTILITY LEGEND:

	DESCRIPTION / SYMBOL	NOTE:
S	PROPOSED SANITARY MANHOLE	
C	PROPOSED CLEAN OUT	
W	PROPOSED WATER METER	
G	PROPOSED GAS METER	
E	PROPOSED ELECTRIC METER	
T	PROPOSED ELECTRIC TRANSFORMER	
	PROPOSED FIRE HYDRANT	
	PROPOSED WATER VALVE	
P	PROPOSED POST INDICATOR VALVE	
FDC	PROPOSED FIRE DEPARTMENT CONNECTION	
E	PROPOSED ELECTRIC LINE	
T	PROPOSED TELEPHONE LINE	
W	PROPOSED WATER LINE	
G	PROPOSED GAS LINE	
FP	PROPOSED FIRE PROTECTION LINE	
T/E	PROPOSED TELEPHONE & ELECTRIC LINE	

UTILITY NOTES:

1. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
5. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
6. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
7. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE AND 10 FEET OF HORIZONTAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. MINIMUM CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PVC (SDR-26) PIPE WITH GASKETTED, COMPRESSION-TYPE JOINTS WITHIN TEN FEET OF THE WATER LINE.
8. NEW 6" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.
9. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
12. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

UTILITY DISCLAIMER:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

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

entheos ARCHITECTS
LEAD • CREATE • INSPIRE
802 Lord Street, Suite 200
Indianapolis, Indiana 46202
P (317)951-9590
mail@entheosARCHITECTS.com
www.entheosARCHITECTS.com

LANDWORX
LandWorx Engineering, LLC
6311 Westfield Blvd
Suite 100
Indianapolis, Indiana 46220
317.616.0177

EVAN WEST REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

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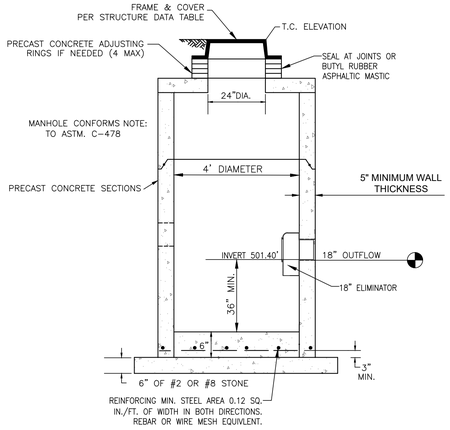
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

UTILITY AND DRAINAGE PLAN

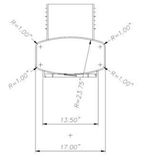
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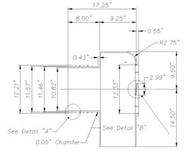
ST 01
OIL & DEBRIS TRAP

NOT TO SCALE

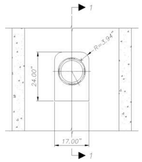




Enlarged Section 2-2

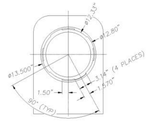


Enlarged Section 1-1



Front View

The Eliminator Catch Basin Oil & Debris Trap

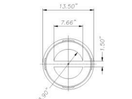


Enlarged Front View



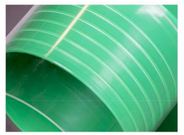
Side View of Cover

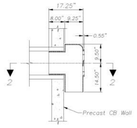
Rear View of Cover w/ Integral Handle



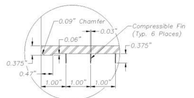
Front View of Cover w/ Integral Handle







Section 1-1

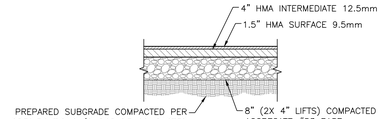


Detail "A"

Ground Water Rescue, Inc.
24 Ryden St., Quincy, MA 02169
Tel: 617-773-1128 Fax: 617-773-0510
www.kleanstream.com

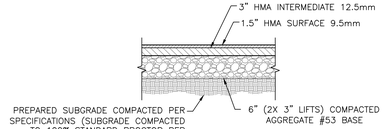
MADE IN USA

18" ELIMINATOR REQUIRED



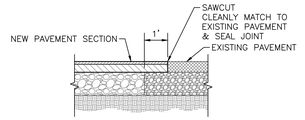
NOTE: REFER TO GEOTECHNICAL REPORT FOR REQUIRED PAVEMENT DEPTH IF APPLICABLE.

HEAVY DUTY SECTION



NOTE: REFER TO GEOTECHNICAL REPORT FOR REQUIRED PAVEMENT DEPTH IF APPLICABLE.

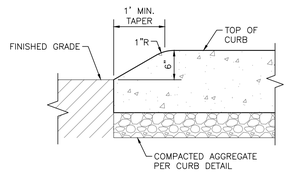
LIGHT DUTY SECTION



NEW ASPHALT TO EXISTING ASPHALT PAVEMENT SECTION

ASPHALT PAVEMENT SECTIONS

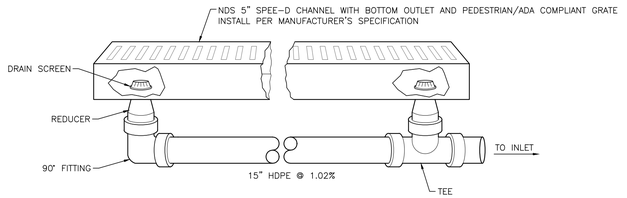
NOT TO SCALE



T.C.=TOP OF CURB ELEVATION

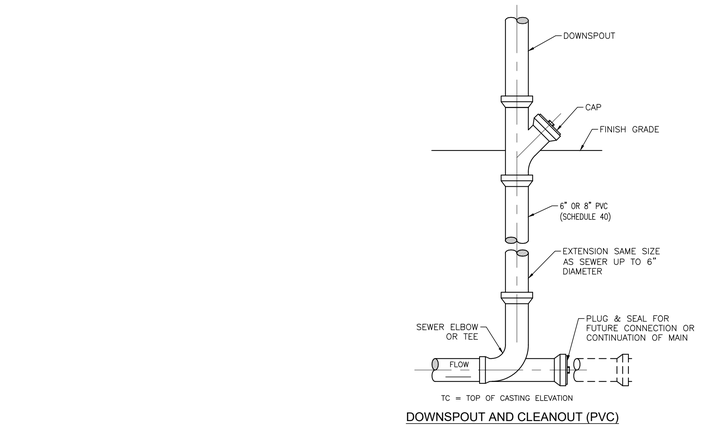
CONCRETE CURB REVEAL

NOT TO SCALE



TRENCH DRAIN SYSTEM

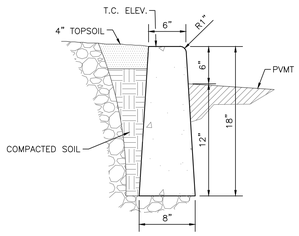
NOT TO SCALE



DOWNSPOUT AND CLEANOUT (PVC)

DOWNSPOUT DETAILS

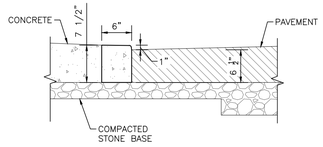
NOT TO SCALE



T.C.=TOP OF CURB ELEVATION

CONCRETE STRAIGHT CURB

NOT TO SCALE

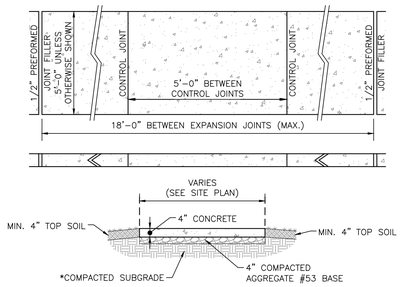


DEPRESSED CURB

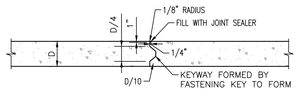
NOTE:
WHERE SIDEWALK IS CONSTRUCTED ADJACENT TO THE CURB, THE SPACE BEHIND THE NEW CURB SHALL BE FILLED WITH GRANULAR MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4".

DEPRESSED CURB

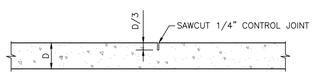
NOT TO SCALE



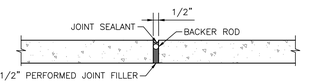
CONCRETE SIDEWALK



KEYWAY JOINT



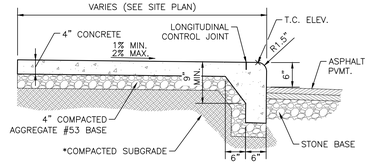
CONTROL JOINT



EXPANSION JOINT

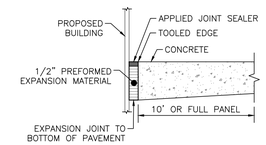
CONCRETE SIDEWALK DETAILS

NOT TO SCALE



* COMPACTED SUBGRADE: THE UPPER 6" SHALL COMPLY WITH THE DENSITY REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS IMMEDIATELY PRIOR TO PLACING THE MATERIAL THEREON. ALL SOFT, YIELDING OR OTHER UNSUITABLE MATERIAL, WHICH CANNOT BE COMPACTED SATISFACTORILY, SHALL BE REMOVED. ALL ROCK ENCOUNTERED SHALL BE REMOVED OR BROKEN OFF AT LEAST 6" BELOW THE SUBGRADE SURFACE. ANY HOLES OR DEPRESSIONS RESULTING FROM THE REMOVAL OF UNSUITABLE MATERIAL SHALL BE FILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO CONFORM WITH THE SURROUNDING SUBGRADE SURFACE.

COMBINED WALK & CURB



EXPANSION JOINT AT BUILDING

NOTE: PROVIDE WHERE SHOWN ON PLANS AND WHERE PAVEMENT ABUTS A VERTICAL SURFACE, BUILDING FOUNDATION, EXISTING OR PROPOSED PAVEMENTS, CURBS AND WALKS.

CONCRETE SIDEWALK DETAILS

NOT TO SCALE

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317.616.0177

EVAN WEST REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

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St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

CONSTRUCTION DETAILS

C700

FILL CHART

Material Location	Description	Material Classification			Compaction/Density Requirement (NOTE 3)
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	See Project Geotechnical Report and Site Design Engineer's Plans			Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended. After 24 inches of fill is placed, place fill in accordance with the engineer of record's relative compaction requirement or to 95% of the Standard Proctor Maximum Dry Density - whichever is greater.
EMBEDMENT FILL Fill immediately Surrounding the sides and top of tank (NOTE 4) **BEDDING FILL** Fill immediately below the tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	or	AASHTO M43 3, 357, 4, 467, 5, 56, 57	Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.

NOTE 1: This layer can include pavement subbase
NOTE 2: If open-graded aggregates are used for embedment fill, fines migration from the final to embedment fill layer may be reduced by installing a layer of 6 oz non-woven geotextile fabric at the final and embedment fill interface.
NOTE 3: See Construction Equipment Table for more information for construction equipment limitations.
NOTE 4: Import or native soils may be used if the soils meet the material classification listed. Fill material should be selected based on classification, groundwater conditions, and tank invert elevation.

CONSTRUCTION EQUIPMENT CHART

Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Minimum Fill Depth over Tank (in)
Plate Compactor	5,500	6
Compact Track Loader (NOTE 2)	7,500	6
Rubber-Tired Skid Steer (NOTE 3)	7,500	14
Low Ground Pressure Tracked Vehicles (NOTE 4)	20,000	14
Roller - Static Mode	12,000	18
Roller - Vibratory Mode	12,000	24
Dump Trucks and Pans	NOTE 5	

NOTE 1: Vehicles shall make straight runs only across tank footprint.
NOTE 2: Maximum ground pressure = 5 psi
NOTE 3: Maximum axle load = 5,250 lbs
NOTE 4: Maximum ground pressure = 7 psi
NOTE 5: Contact ACO for more information regarding dump truck and pan traffic during construction.
NOTE 6: Backfill material may be temporarily unloaded near the excavation. Material shall not be stockpiled near the excavation for longer than 24 hours.

COVER CHART

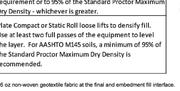
Live Loading Condition	Cover Thickness (Inches) Minimum	Maximum
Non-Trafficked Areas (i.e. Landscaping)	12	78
Passenger Vehicles Parking Lot (i.e. Gross Vehicle Weight <10,000 lbs)	18	78
Passenger Vehicle Parking Lot with one weekly AASHTO HS-20 vehicle	24	78
Heavy AASHTO HS-20 Traffic	26	78

NOTE 1: Minimum Cover Thickness in non-trafficked areas is based on landscape surface with a 40 degree load distribution. In trafficked areas, Minimum Cover Thicknesses are based on 12" minimum asphalt-surfaced pavement with a 30 degree load distribution.
NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet below the invert of the tank.

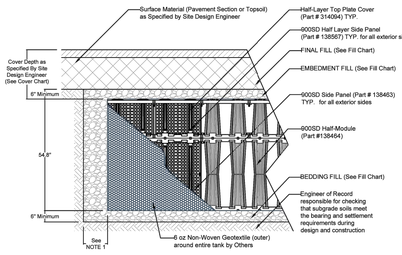
SIDE PANEL PIPE DIAMETER CHART

Layer Height	Inlet/Outlet Pipe Diameter Minimum	Maximum
0.5	4 inches	10 inches
1	4 inches	24 inches [Note 2]

NOTE 1: Cut inlet/outlet pipe hole prior to side panel installation.
NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels.
NOTE 3: Contact ACO for guidance for inlet / outlet pipes larger than 24-inch diameter

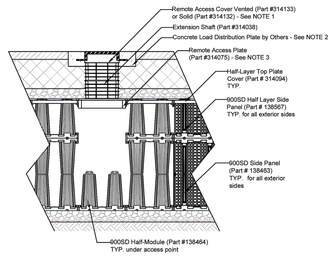


DETAIL A - PIPE WRAP
NTS



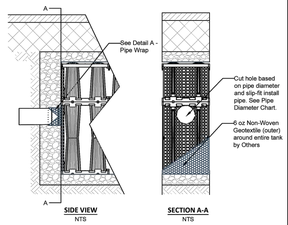
1.5 LAYER 900SD INFILTRATION CROSS SECTION
NTS

NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater.



1.5 LAYER 900SD ACCESS POINT CROSS SECTION
NTS

NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative methods of ventilation are recommended.
NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer of Record for requirements
NOTE 3: The Remote Access Plate is approximately the size of half of a half-module. The half-module at the top of the tank must be cut in half to accommodate the Remote Access Plate



1.5 LAYER 900SD PIPE INSTALLATION
NTS

DRAWN BY	CHECKED BY
A Frye	**J Jonke**
DATE	REV.
12/23/2024	**3**

STORMBRIXX STANDARD DETAILS
INFILTRATION SYSTEM - 900SD 1.5 LAYER

ACO, INC.

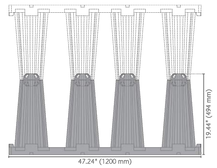
WEST SALES OFFICE
825 W BEECHCRAFT ST.
CASA GRANDE, AZ 85122
Tel. (888) 490-9552
Fax (520) 421-9899

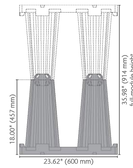
EAST SALES OFFICE
9470 PINECONE DRIVE
MENTOR, OH 44060
Tel. (800) 543-4764
Fax (440) 639-7235

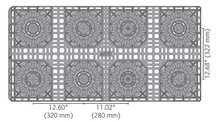
SOUTHEAST SALES OFFICE
481 MUNN RD. SUITE #225
FORT MILL, SC 29715
Tel. (440) 639-7230
Fax (800)-802-1063

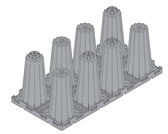
www.acoswm.com

Half-Module 900 SD
part no. 138464





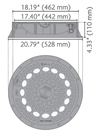




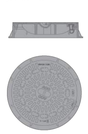
Note: (2) half-modules are connected to form (1) full-module. (1) side panel fits (1) full-module.

ACO Specification Information

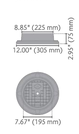
Remote Access Cover (Vented)
part no. 314133



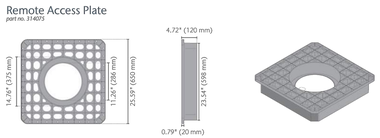
Remote Access Cover (Non-Vented)
part no. 314132



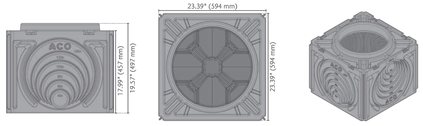
Inspection Point Cover
part no. 314044



Remote Access Plate
part no. 314075

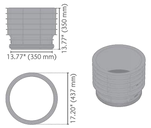


Remote Access Unit 900 SD
part no. 138141

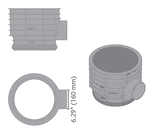


ACO Specification Information

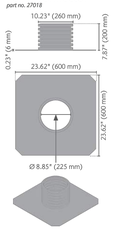
Extension Shaft
part no. 314038



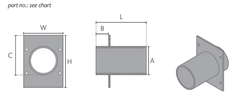
Extension Shaft with Pipe Socket
part no. 314039



Vertical Inspection Point Connector
part no. 27018



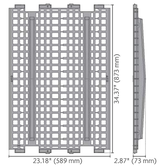
Horizontal Pipe Connector
part no.: see chart



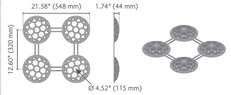
Part No.	A	B in (mm)	C in (mm)	H in (mm)	W in (mm)	L in (mm)
93139	4" SDR 35	2.00 (51)	6.25 (158)	8.25 (209)	6.70 (170)	8.00 (203)
93145	4" SCH 40	2.00 (51)	7.47 (189)	8.29 (210)	6.70 (170)	8.00 (203)
93140	6" SDR 35	2.00 (51)	8.95 (227)	9.93 (252)	10.22 (259)	8.00 (203)
93146	6" SCH 40	2.00 (51)	9.11 (231)	9.93 (252)	10.22 (259)	8.00 (203)
93141	8" SDR 35	2.00 (51)	10.46 (265)	11.39 (289)	11.64 (295)	8.00 (203)
93147	8" SCH 40	2.00 (51)	10.57 (268)	11.39 (289)	11.64 (295)	8.00 (203)
93142	12" SDR 35	2.00 (51)	13.48 (342)	14.30 (363)	16.66 (423)	8.00 (203)
93144	15" SCH 40	2.00 (51)	17.28 (439)	19.25 (489)	19.25 (489)	8.00 (203)

ACO Specification Information

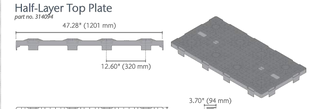
Side Panel 900 SD
part no. 138463

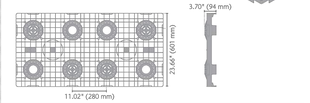


Universal Top Cover
part no. 140373

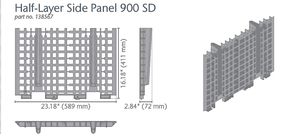


Half-Layer Top Plate
part no. 314094





Half-Layer Side Panel 900 SD
part no. 138567



ACO Specification Information

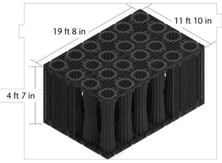
Online Project Configuration

Project Details
Description : St Joseph University
Date : 08-04-2026
City : Terre Haute
State : IN
Zip Code : 47807
Country : USA

Customer Details
Contact : jim.mcconnell@aco.com McConnell
Email : jim.mcconnell@aco.com

Tank Configuration

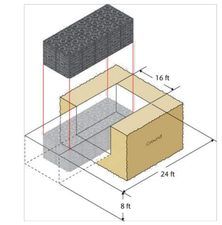
Tank Function	Infiltration
Product	Standard Duty (900SD)
Number of Layers	1.5
Total Net Volume (ft³)	1,021 ft³
Total Gross Volume (ft³)	1,062 ft³
Length of Tank (ft/in)	19 ft 8 in
Width of Tank (ft/in)	11 ft 10 in
Depth of Tank (ft/in)	4 ft 7 in



Cavity & Excavation Details

Length of Cavity (ft/in)	23 ft 8 in
Width of Cavity (ft/in)	15 ft 10 in
Depth of Cavity (ft/in)	7 ft 0 in
Volume of Material to be Excavated (ft³)	2,635 ft³
*Membrane Quantity (ft²)	865.6 ft²
Cover Dimension (ft/in)	2 ft 0 in
**Backfill Material (ft³)	1,572 ft³

* Calculation includes a 15% overlap
** Pavement not accounted for



* Diagram shows cavity size rounded to nearest foot

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825 W. Beechcraft Street
Casa Grande, AZ 85122
Tel : (888) 490-9552
info@acousa.com

Project Configuration Inlets, Outlets, and Access

Inlets

	Qty
Inlets	**1**
Remote Access Unit	0
Side Panels	1
Horizontal Pipe Connector	0

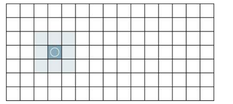
Outlets

	Qty
Outlets	**1**
Remote Access Unit	0
Side Panels	1
Horizontal Pipe Connector	0

Access

	Qty
Access Points	**1**
Remote Access Unit	0
Remote Access Plate	1

Grid Note
The grids below do not represent accurate dimensions or proportions they just give a general guide to both inlet / outlet and access placement on your StormBrixx scheme.



Inlet/Outlet Grid Key
Inlet/Outlet Pipe
Inlet/Outlet using Remote Access Unit

Access Grid Key
Remote Access Unit with maintenance access
Remote Access Plate with maintenance access

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LANDWORX
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6311 Westfield Blvd
Suite 100
Indianapolis, Indiana 46220
317.616.0177

EVAN WES REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

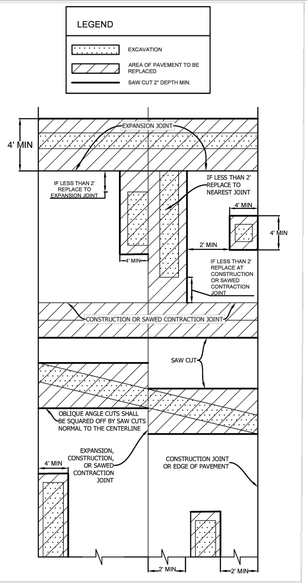
For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

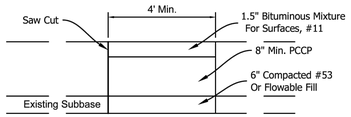
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St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

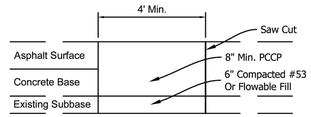
2024.012
CONSTRUCTION DETAILS
C701



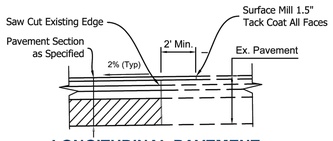
PAVEMENT REPLACEMENT DETAIL



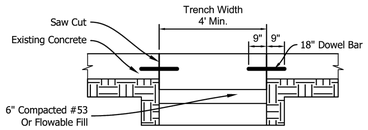
ASPHALT PATCH DETAIL



Patch Section



LONGITUDINAL PAVEMENT TIE-IN SECTION



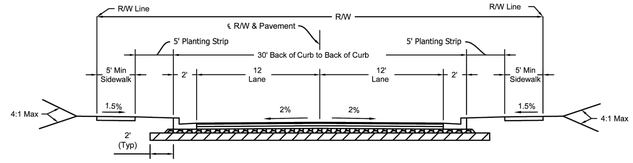
Concrete Tie-in

CONCRETE PATCH DETAIL

NOTES

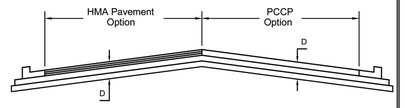
1. All excavation or work performed within the right-of-way shall follow Municipal Code Sec. 8-123
2. No excavation or work shall be performed under the issued right-of-way permit until utility locates have been provided by all utilities known to be in the vicinity of work.
3. For work disturbing significant portions of a street with a pavement rating of 1-3, pavement repair may include partial or total resurfacing of the street in the area of work on a case-by-case basis. The Department of Engineering shall indicate the extent of resurfacing at the time that the permit is issued unless permitee deviates from submitted plan.
4. Disturbed areas outside of the roadway shall be restored within seven (7) days of completion of work.
5. Permittee shall provide a two (2) year warranty to the City of Terre Haute for all work performed within the right-of-way of the City of Terre Haute. The warranty period shall begin at the closing day of the right-of-way permit.

RECOMMENDED FOR APPROVAL: MARCUS E. MAURER 12/15/2025 DATE	DATE MADE 11/26/2025	PAVEMENT REPLACEMENT AND PATCHING	SCALE AS NOTED	SHEET 4 OF 21	
DESIGNED BY M.E.M.	DRAWN BY C.A.W.	DATE REVISED 12/15/2025 10:57:48 AM	CITY OF TERRE HAUTE BOARD OF PUBLIC WORKS AND SAFETY ENGINEERING DEPARTMENT	PROJECT STDS & SPECS	SITE CITY OF TERRE HAUTE



STREET SECTION

Not to Scale



PAVEMENT SECTION

MODIFICATIONS TO THESE SECTIONS MUST BE APPROVED BY DEPARTMENT OF ENGINEERING

HEAVY PAVEMENT

HMA Pavement Option

D= 1.5" - 165lb/syd HMA, 2, 64, Surface, 9.5mm, on
2" - 220lb/syd HMA, 2, 64, Intermediate, 19.0 mm, on
4" - 440lb/syd HMA, 2, 64, Base, 25.0mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, See Note 4

PCCP Option (Requires Engineering Approval)

D = 10" - PCCP, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, See Note 4

LIGHT PAVEMENT

HMA Pavement Option

D= 1.5" - 165lb/syd HMA, 2, 64, Surface, 9.5mm, on
2" - 220lb/syd HMA, 2, 64, Intermediate, 19.0 mm, on
2.5" - 275lb/syd HMA, 2, 64, Base, 25.0mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, See Note 4

PCCP Option (Requires Engineering Approval)

D = 9" - PCCP, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, See Note 4

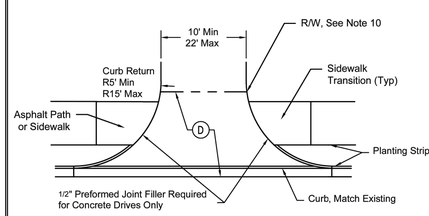
Minor Subdivision

D= 1.5" - 165lb/syd HMA, 2, 64, Surface, 9.5mm, on
3.5" - 385lb/syd HMA, 2, 64, Intermediate, 19.0 mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, See Note 4

NOTES

1. Asphalt pavement shall be in accordance with the most current INDOT Standard Specifications Section 401. For all local (non-Federal Aid) projects, all HMA acceptance and testing requirements shall be in accordance with Section 402. Patching and Widening shall be in accordance with Section 304.
2. PCCP pavement shall be in accordance with the most current INDOT Standard Specifications Section 502.
3. Alternative pavement designs require approval from the Department of Engineering.
4. Contractor to coordinate with geotechnical engineer to determine which, if any, subgrade treatments (lime, cement, etc.) are required.
5. Underdrains are permitted when engineering judgement or field conditions justify their use, see Sheet 5. The Department of Engineering shall be notified if underdains are to be utilized.

RECOMMENDED FOR APPROVAL: MARCUS E. MAURER 12/15/2025 DATE	DATE MADE 11/26/2025	STREET AND PAVEMENT SECTION	SCALE AS NOTED	SHEET 2 OF 21	
DESIGNED BY M.E.M.	DRAWN BY C.A.W.	DATE REVISED 12/15/2025 10:57:48 AM	CITY OF TERRE HAUTE BOARD OF PUBLIC WORKS AND SAFETY ENGINEERING DEPARTMENT	PROJECT STDS & SPECS	SITE CITY OF TERRE HAUTE



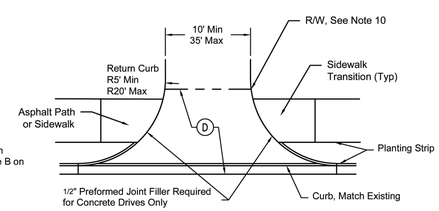
Single Family Residential Driveway

6" - PCCP for Approaches, on
6" - Dense Graded Subbase, on

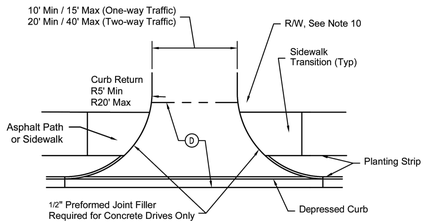
or

HMA for Approaches, Type B
1.5" - 165lb/syd HMA Surface, Type B on
2.5" - 275lb/syd HMA Intermediate, Type B on
6" - Compacted Aggregate, No. 53, on

Residential Driveway Section



Multi-Family Residential Driveway



Non-Residential Driveway

10" - PCCP for Approaches, on
6" - Dense Graded Subbase, on
Geogrid, Type 1B, on
14" - INDOT Subgrade Treatment, See Note 10

or

HMA for Approaches, Type B
1.5" - 165lb/syd HMA Surface, Type B, on
2" - 220lb/syd HMA Intermediate, Type B, on
4" - 440lb/syd HMA Base, Type B, on
14" - INDOT Subgrade Treatment, See Note 10, on Geogrid, Type 1B

Non-Residential Driveway Section

DRIVEWAY DETAILS

Not to Scale

NOTES

1. For single family residential driveways, driveways must be 30' from intersection(s).
2. For multi-family residential driveways, driveways must be 50' from intersection(s).
3. For non-residential driveways, driveways must be 50' from intersection(s).
4. Details do not reflect additional road improvements (i.e., turn lanes and tapers).
5. Decorative driveway aprons are not allowed, except as approved by the Department of Engineering.
6. Maximum driveway slope outside of right-of-way shall be 10% for minimum 10 feet beyond R/W line.
7. Adjoining asphalt shall have perpendicular edges.
8. Asphalt must match adjacent mainline cross section for non-residential approaches.
9. Contractor to coordinate with geotechnical engineer to determine which, if any, subgrade treatments (lime, cement, etc.) are required.
10. Right-of-way typically begins and ends at the back of sidewalk for each side of a street, see Sheet 2. Contact the Department of Engineering for right-of-way clarification.

RECOMMENDED FOR APPROVAL: MARCUS E. MAURER 12/15/2025 DATE	DATE MADE 11/26/2025	DRIVEWAY DETAILS	SCALE AS NOTED	SHEET 3 OF 21	
DESIGNED BY M.E.M.	DRAWN BY C.A.W.	DATE REVISED 12/15/2025 10:57:48 AM	CITY OF TERRE HAUTE BOARD OF PUBLIC WORKS AND SAFETY ENGINEERING DEPARTMENT	PROJECT STDS & SPECS	SITE CITY OF TERRE HAUTE

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LANDWORX
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Suite 100
Indianapolis, Indiana 46220
317.616.0177

EVAN WEST REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ---

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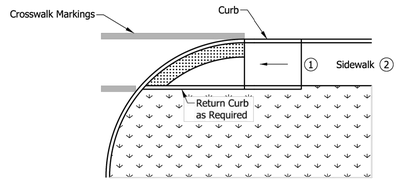
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

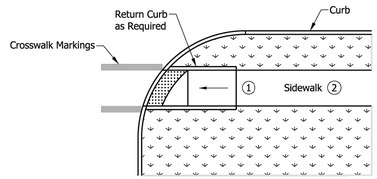
CONSTRUCTION DETAILS

2024.012

C702



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP ADJACENT CURB



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP WITH BUFFER

NOTES:

1. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
2. Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL
PERPENDICULAR CURB RAMP
TYPICAL PLACEMENT

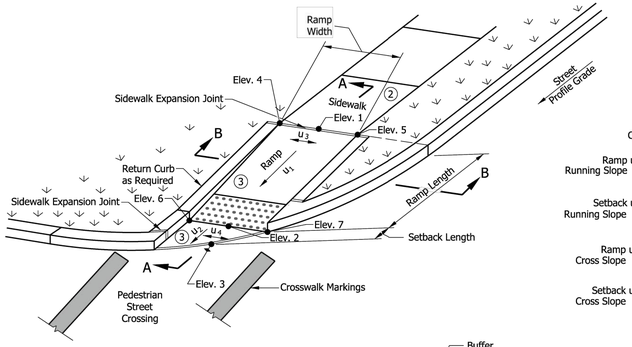
SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-05

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/15/16
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 03/18/16
CHIEF ENGINEER DATE



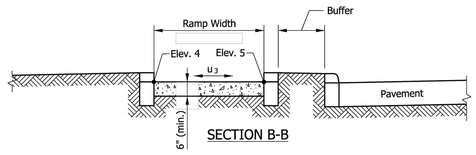
Component Slope Equations:

Ramp Running Slope $u_1 = \frac{|\text{Elev. 1} - \text{Elev. 2}|}{\text{Ramp Length}} \leq 8.33\%$

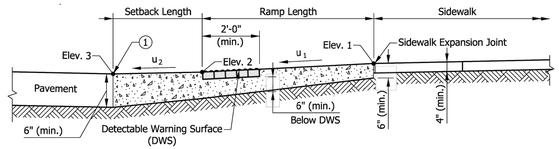
Setback Running Slope $u_2 = \frac{|\text{Elev. 2} - \text{Elev. 3}|}{\text{Setback Length}} \leq$ Profile Grade of Adjacent Street

Ramp Cross Slope $u_3 = \frac{|\text{Elev. 4} - \text{Elev. 5}|}{\text{Ramp Width}} \leq 2.00\%$ (4)

Setback Cross Slope $u_4 = \frac{|\text{Elev. 6} - \text{Elev. 7}|}{\text{Ramp Width}} \leq 2.00\%$ (4)



SECTION B-B



SECTION A-A

NOTES:

1. The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.
2. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
3. Curb ramp surface shall be coarse broomed transverse to the running slope.
4. See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
5. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
6. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR
CURB RAMP COMPONENT DETAILS

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-06

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE

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EVAN WEST REGISTERED No. 12500044 STATE OF INDIANA PROFESSIONAL ENGINEER

For Construction

Project No. 2024.012
Project Date August 31, 2026
Checked By ETW
Revision Date ----

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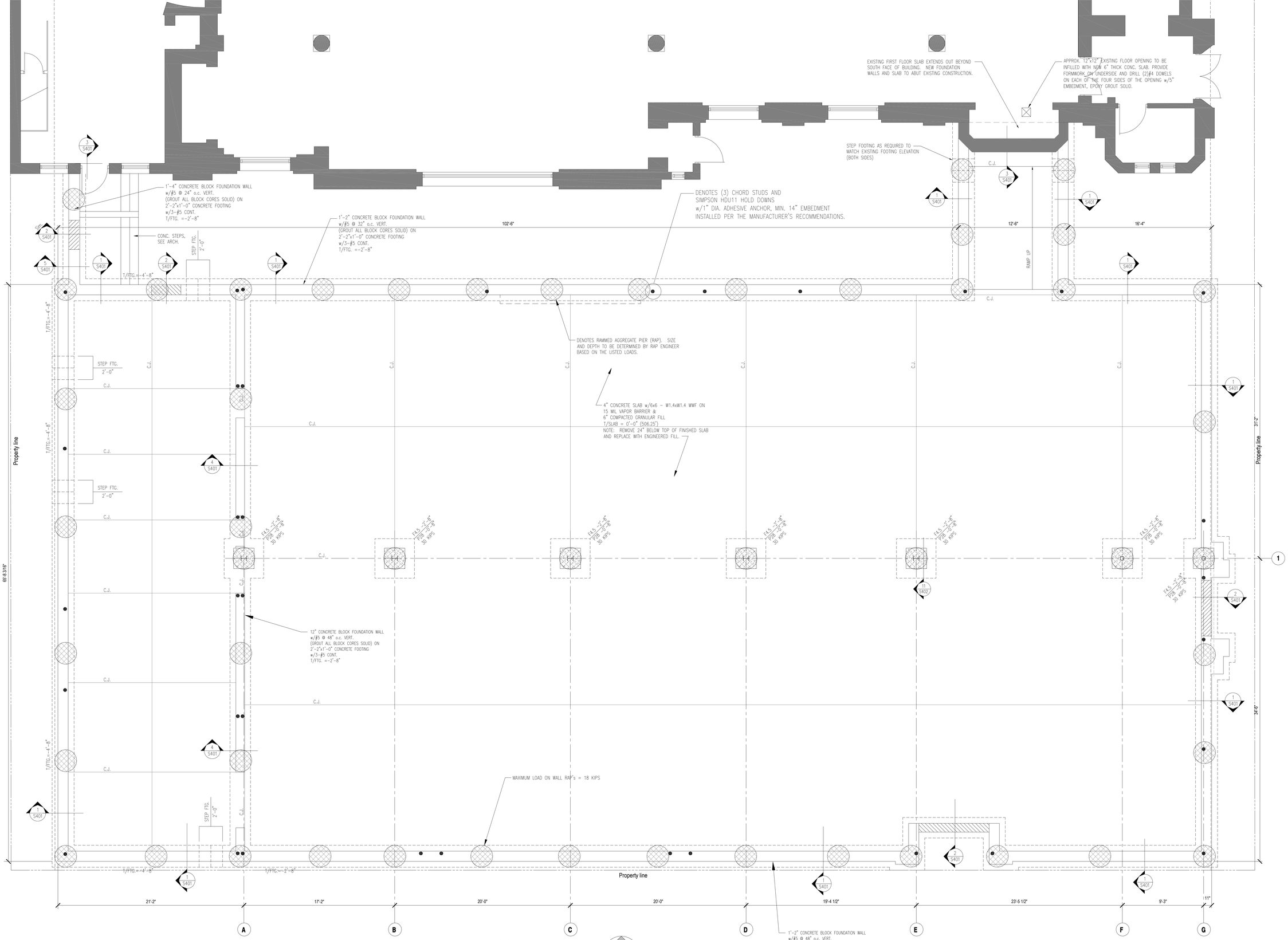
St. Joseph University Catholic Parish
New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

2024.012

CONSTRUCTION DETAILS

C703



A Foundation Plan
1/4" = 1'-0"

NORTH

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ALL INTERIOR WALL DIMENSIONS.

NOTE: SEE SHEET S401 FOR FOOTING AND PIER SCHEDULES AND FOUNDATION NOTES

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WESLEY B HARRISON REGISTERED PE60860410 STATE OF INDIANA PROFESSIONAL ENGINEER

Project No. 2024.012
Project Date September 1, 2026
Produced wbh
Revision Date

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2024.012 **St. Joseph University Catholic Parish**
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

Foundation Plan

S201

NEW 6" BOND BEAM LINTEL w/1-#5 CONT. AND (2) L4x4x¼ FOR BRICK SUPPORT. PROVIDE MIN. 8" BEARING AT EACH END ON GROUTED BLOCK CORES. COORDINATE ELEVATION WITH ARCHITECTURAL DRAWINGS. MASONRY WALL TO BE 6" CONC. BLOCK w/#5 @ 24" o.c. w/HORIZ. JOINT REINF. @ 16" o.c. GROUT BLOCK CORES AT BARS.

DENOTES (3) CHORD STUDS AND SIMPSON HDU11 HOLD DOWNS w/1" DIA. ADHESIVE ANCHOR, MIN. 14" EMBEDMENT INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

EXISTING LINTEL TO REMAIN

PREFABRICATED WOOD ROOF TRUSSES AT 24" o.c. SUPPORTING ⅜" APA RATED EXTERIOR GRADE PLYWOOD/OSB ROOF DECKING. TRUSS BEARING =+13'-0" TYP. U.N.O.

102'-6"

12'-6"

16'-4"

SHADING DENOTES ROOF TRUSS OVERBUILD FRAMING

NEW 2x6 WALLS TO BE TIED TOGETHER AT MAX. 48" o.c. VERTICALLY AND HORIZONTALLY

ROOFTOP MECHANICAL UNIT

36" DEEP WOOD TY. GIRTS W/ 4" o.c. SUPPORTING ⅜" APA RATED EXTERIOR GRADE PLYWOOD/OSB ROOF DECKING

BATTER BEAM ON SLOPING WALL

2x10 RAFTERS AT 24" o.c.

TRUSS BEARING ON WALL

GABLE END TRUSSES AT 24" o.c.

W16x26 +12'-10"

W14x22 +12'-10"

RIDGE

HIP

VALLEY

SLOPE 6/12

MONO-PITCH END TRUSSES AT 24" o.c.

RAFTERS BEAR ON SLOPING WALL

PREFABRICATED WOOD ROOF TRUSSES AT 24" o.c. SUPPORTING ⅜" APA RATED EXTERIOR GRADE PLYWOOD/OSB ROOF DECKING.

2x4 TRUSS TOP AND BOTTOM CHORD BRIDGING

2x4 TRUSS WEB BRACING AT CENTER AND QUARTER SPAN.

Property line

65'-8 5/16"

34'-6"

21'-2" | 17'-2" | 20'-0" | 20'-0" | 19'-4 1/2" | 23'-5 1/2" | 9'-3" | 1'1"

A | B | C | D | E | F | G | 1

EXTERIOR WALLS TO BE 2x6 LOAD BEARING STUDS AT 12" o.c. w/⅜" PLYWOOD/OSB SHEATHING ATTACHED TO OUTSIDE FACE OF WALL. TRUSS BEARING =+13'-0" TYP. U.N.O.

WALL SHEATHING NOTE:
ALL WALL SHEATHING TO BE MIN. ⅜" OSB. w/8d NAILS AT 3" o.c. AND ALL VERTICAL JOINTS TO BE CENTERED OVER A FRAMING MEMBER. ALL HORIZONTAL JOINTS TO BE BLOCKED AND NAILED w/8d NAILS AT 3" o.c.

HEADER SCHEDULE	
MARK	SIZE
H-1	(3)2x10 w/(2)⅜"x9¼" PLYWOOD SPACERS
H-2	(3)2x12 w/(2)⅜"x11¼" PLYWOOD SPACERS
H-3	(3)1¾"x11⅞" 2.0E PARALLAM PSL
H-4	(3)1¾"x16" 2.0E PARALLAM PSL

A Roof Framing Plan
1/4" = 1'-0"
NORTH

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ALL INTERIOR WALL DIMENSIONS.

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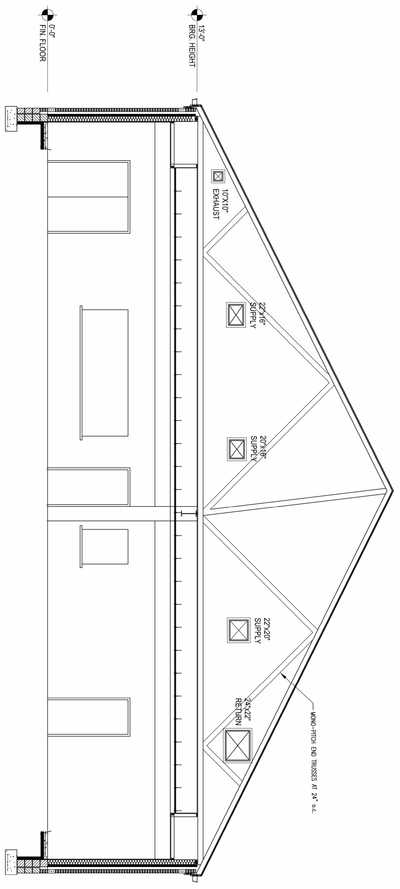
Project No. 2024.012
Project Date September 1, 2026
Produced wbh
Revision Date

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2024.012 **St. Joseph University Catholic Parish**
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

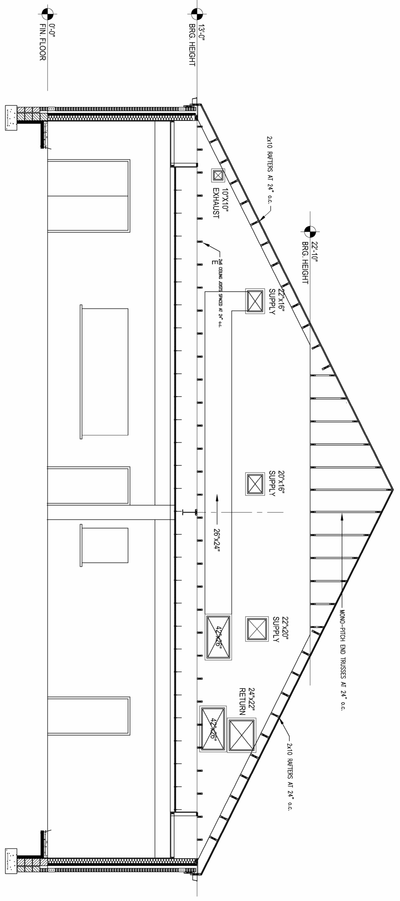
Roof Framing Plan

S202



B Section

Scale: 3/16" = 1'-0"



A Section

Scale: 3/16" = 1'-0"

2024.012 **St. Joseph University Catholic Parish**

New Parish Hall

113 South 5th Street
Terre Haute, Indiana 47807

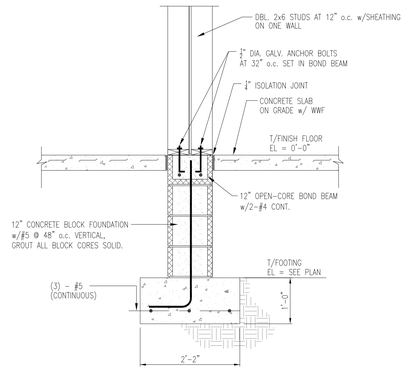
S301 **Structural Building Sections**

Project No. 2024.012
Project Date Septemeber 1, 2026
Produced wbh
Revision Date

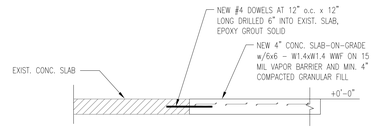
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4 SECTION
3/4" = 1'-0"



PROVIDE THIS DETAIL WHERE THE NEW SLAB MEETS EXISTING SLAB OR AT TRENCH CUTS IN THE EXISTING SLAB.

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

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH X LENGTH X DEPTH			REINFORCING EACH WAY, T & B U.N.O.
F4.5	4'-6	4'-6	1'-2	(5) #5 x 4'-0

NOTES:
1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. INCREASE FOOTING DEPTH WHERE REQUIRED TO ENCASE COLUMN ANCHOR RODS.

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING	
			VERTICALS	TIES - DETAIL
P-28	28"	28"	(4) #8	#3 - DETAIL A

NOTES:
1. PROVIDE ALL TIES w/ MIN. 1 1/2" CLEAR ON ALL SIDES.
2. HOLD TOP TIE 2" BELOW T/PIER, NEXT (4) SPACES @ 4" o.c. MAX., BALANCE AT 8" o.c.

DETAIL A

FOUNDATION PLAN NOTES

1. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
2. 0'-0" = NEW FINISHED FLOOR. REF. SITE/CIVIL DRAWINGS FOR EXACT USGS ELEVATION.
3. STEP THE BOTTOM OF ALL PERIMETER WALL AND COLUMN FOOTINGS AND SLEEVE AS REQUIRED FOR PLUMBING LINES (I.E. SANITARY SEWER, STORM SEWER, WATER LINES, ETC.) SHOWN ON PLUMBING DRAWINGS.
4. PROVIDE CONTROL JOINTS (C.J.) AS SHOWN ON PLAN. CONTROL JOINT SPACING SHOULD NOT GENERALLY NOT EXCEED 12'-0" IN ANY DIRECTION, WITH A MAXIMUM PANEL ASPECT RATIO OF 1.5. SUBMIT CONTROL JOINT LAYOUT PLAN FOR REVIEW PRIOR TO SLAB CONSTRUCTION.
5. COLUMN AND WALL FOOTINGS TO BEAR ON ASSUMED ALLOWABLE SOIL PRESSURE OF 2,000 PSF. WHERE THIS CAPACITY CANNOT BE ACHIEVED, THE SOIL SHOULD BE REMOVED TO A DEPTH APPROVED BY THE SOILS ENGINEER AND REPLACED WITH ENGINEERED FILL WITH AN ALLOWABLE SOIL PRESSURE MATCHING THE DESIGN PRESSURE LISTED ABOVE.
6. EARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERE SOIL CONDITIONS PERMIT (i.e. WHERE THE BANKS OF THE EXCAVATION WILL HOLD WITHOUT CAVING). HOWEVER, THE PLAN DIMENSIONS OF ANY EARTH-FORMED FOOTINGS MUST BE INCREASED BY A MINIMUM OF 2" ALONG ALL EDGES TO COMPENSATE FOR INACCURACIES ASSOCIATED WITH EARTH-FORMING: 2'-0" WALL FOOTINGS BECOME 2'-4" WIDE, AND 5'-0" SQUARE COLUMN FOOTINGS BECOME 5'-4" SQUARE.

PLAN LEGEND:

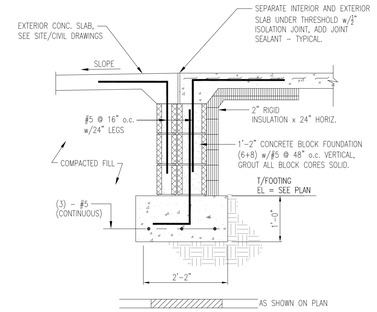
COL. FOOTING SIZE PER SCHEDULE
TOP OF FTG. ELEVATION

FX.X –X'–X"
PXX –X'–X" TOP OF PIER ELEVATION

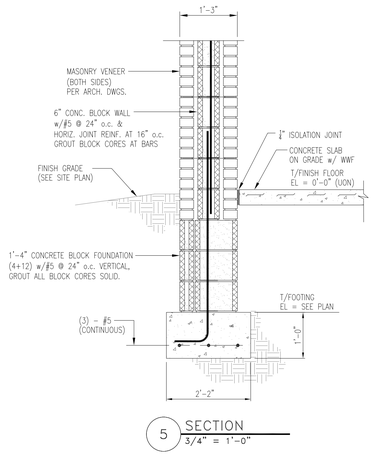
CONC. PIER SIZE PER SCHEDULE

F.F.
T/X' DENOTES FINISH FLOOR
DENOTES TOP OF WALL, FOOTING, PIER, ETC.

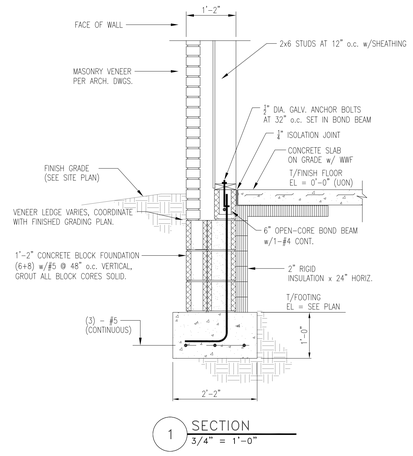
HOLD FOUNDATION WALL DOWN 8" FOR TYP. EXTERIOR ENTRANCE DETAIL. REF.



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



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



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

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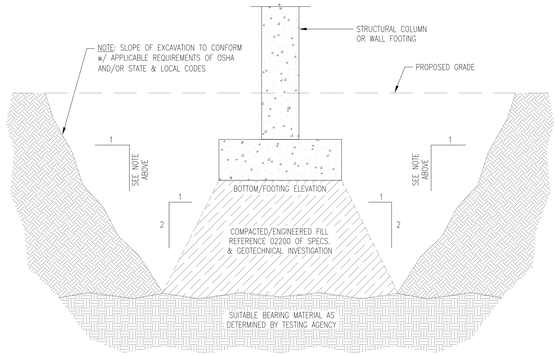
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2024.012 **St. Joseph University Catholic Parish**
New Parish Hall
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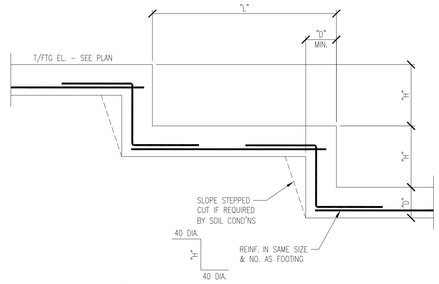
Foundation Sections and Notes

S401



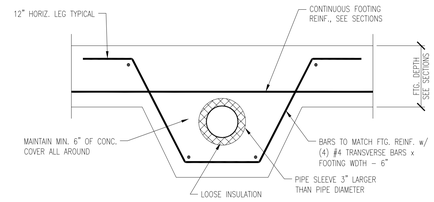
1. REFER TO THE SPECIFICATIONS FOR APPLICATION OF UNIT COSTS FOR REMOVAL OF UNSUITABLE BEARING MATERIAL & REPLACEMENT w/ COMPACTED, ENGINEERED FILL.
2. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION RE: EXPECTED SOIL CONDITIONS, SUITABILITY OF EX. SOILS FOR USE AS ENGINEERED FILL, GROUNDWATER CONDITIONS, ETC.

13 OVER-EXCAVATION DETAIL – COMPACTED FILL
3/4" = 1'-0"

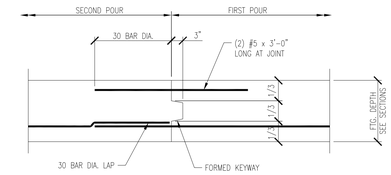


NOTES:
1. "H" DENOTES HEIGHT OF STEP AS SHOWN ON PLAN.
2. "L" DENOTES LENGTH BETWEEN STEPS. LAYOUT TO MAINTAIN SLOPE OF 1 VERTICAL TO 2 HORIZONTAL UNLESS SHOWN OTHERWISE.
3. "D" DENOTES FOOTING DEPTH, REFER TO PLANS & SECTIONS.

9 STEPPED FOOTING DETAIL
NOT TO SCALE



5 PIPE PENETRATION THROUGH WALL FOOTING
NOT TO SCALE

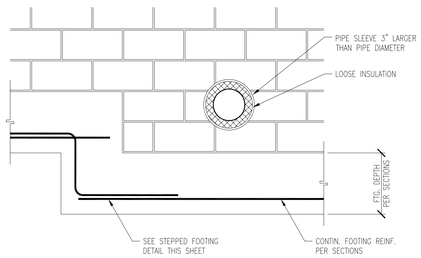


4 WALL FOOTING CONSTRUCTION JOINT DETAIL
NOT TO SCALE



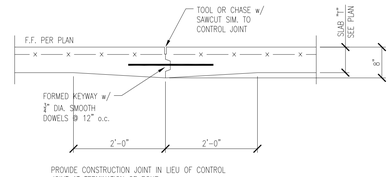
NOTES:
1. LOCATION OF ANCHOR BOLTS MUST NOT VARY MORE THAN 1/8" CENTER-TO-CENTER OF ANY TWO BOLTS WITHIN AN ANCHOR BOLT GROUP.
2. HOLD MAX. DEVIATION OF 1/4", CENTER-TO-CENTER OF ADJACENT ANCHOR BOLT GROUPS.
3. HOLD ELEVATION OF THE TOP OF THE ANCHOR BOLTS TO ±1/2 INCH.
4. HOLD MAXIMUM DEVIATION OF 1/4" FROM THE CENTER OF ANY ANCHOR BOLT GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
5. REFER TO THE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.

12 ANCHOR BOLT DETAIL
1 1/2" = 1'-0"



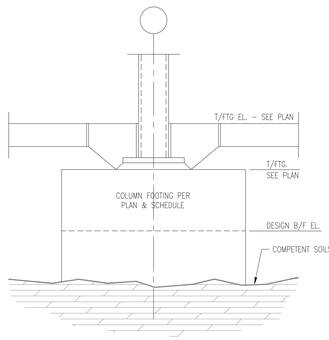
NOTES:
1. REFER TO PLUMBING DRAWINGS FOR INVERT ELEVATION OF ALL UNDERGROUND PIPING.
2. STEP FOOTING FOR PIPE PENETRATION THROUGH FOUNDATION WALL UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE MEP ENGINEER.
3. PROVIDE PRECAST OR BOND BEAM LINTEL FOR MULTIPLE PENETRATIONS OR OPENINGS GREATER THAN 24" IN WIDTH.

8 CMU FOUNDATION WALL SLEEVE
NOT TO SCALE



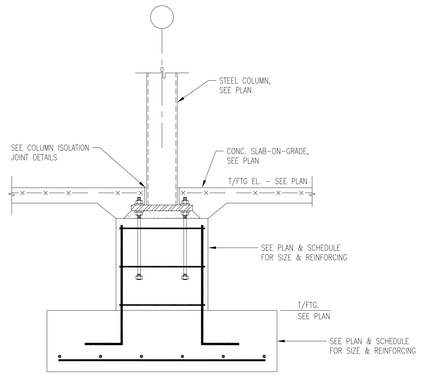
PROVIDE CONSTRUCTION JOINT IN LIEU OF CONTROL JOINT AT TERMINATION OF POUR

3 SLAB ON GRADE CONSTRUCTION JOINT DETAIL
NOT TO SCALE

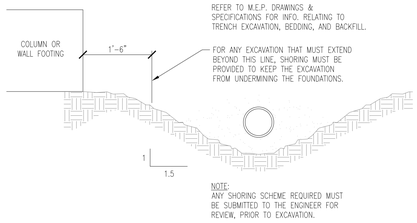


NOTES:
EXTEND FOOTING TO BEAR ON COMPETENT SOILS AS APPROVED BY THE TESTING AGENCY. WHEN DIFFERENTIAL BETWEEN DESIGN B/F EL. & APPROVED SOILS EXCEEDS 2'-0", LEAN CONCRETE FILL (2,000 PSI) MAY BE USED IN LIEU OF EXTENDING FOOTING AT CONTRACTOR'S OPTION. PERIMETER WALL FOOTINGS SIMILAR.

15 TYP. EXTENDED FOOTING DETAIL
NOT TO SCALE

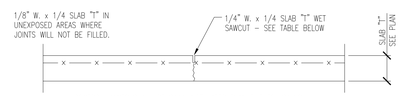


11 TYP. COLUMN FOOTING DETAIL w/PIER
3/4" = 1'-0"



NOTE:
ANY SHORING SCHEME REQUIRED MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW, PRIOR TO EXCAVATION.

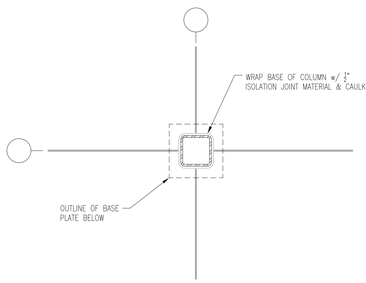
7 EXCAVATION LIMITS DETAIL
NOT TO SCALE



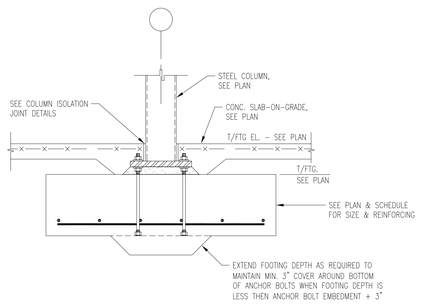
CONTROL JOINTS SHALL BE SAWN NOT LATER THAN THE FOLLOWING TABLE, OR 16 HOURS AFTER FINAL TROWELING (WHICHEVER IS LESS). WHERE "T" EQUALS THE AMBIENT TEMPERATURE IN DEGREES FAHRENHEIT AT THE TIME OF FINAL TROWELING. SAWCUTTING SHALL BE SUSPENDED ONLY IF THE LARGE AGGREGATE IS DISLODGED OR LOOSENED.
ALTERNATE: USE PRE-FORMED JOINT FORMER.

TEMP., °F	TIME, HOURS
< 40°	16
50°	14
60°	12
70°	10
80°	4
90°	3

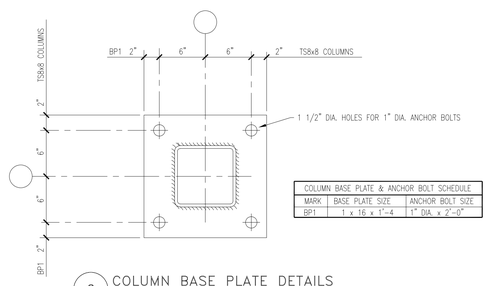
2 SLAB ON GRADE CONTROL/ CONTRACTION JOINT DETAIL
NOT TO SCALE



14 COLUMN ISOLATION JT. DETAILS
NOT TO SCALE

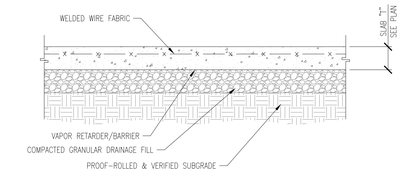


10 TYP. COLUMN FOOTING DETAIL w/o PIER
3/4" = 1'-0"



COLUMN BASE PLATE & ANCHOR BOLT SCHEDULE		
MARK	BASE PLATE SIZE	ANCHOR BOLT SIZE
BP1	1 x 16 x 1'-4	1" DIA. x 2'-0"

6 COLUMN BASE PLATE DETAILS
1 1/2" = 1'-0"



1. LOCATE WELDED WIRE FABRIC IN UPPER THIRD OF SLAB. SUPPORT ON BOLSTERS, CHAIRS, OR CONCRETE BRICKS.
2. LAP WELDED WIRE FABRIC A MIN. OF ONE FULL MESH SPACING.
3. THE USE OF NYLON OR POLYPROPYLENE FIBER IN LIEU OF WELDED WIRE FABRIC AS A SECONDARY REINFORCEMENT IS PERMISSIBLE, UNLESS OTHERWISE NOTED.
   NOTE: FIBER MAY NOT BE SUBSTITUTED FOR W.W.F. IN SUPPORTED SLABS.
4. SEE PLANS, NOTES, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SUCH AS FINISH, JOINTING, CURING, ETC.

1 SLAB ON GRADE CONSTRUCTION
NOT TO SCALE

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WESLEY B. HARRISON REGISTERED PE60860410 STATE OF INDIANA PROFESSIONAL ENGINEER
Wesley B Harrison

Project No. 2024.012
Project Date September 1, 2026
Produced wbh
Revision Date

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2024.012 St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

Typical Foundation Details

S402

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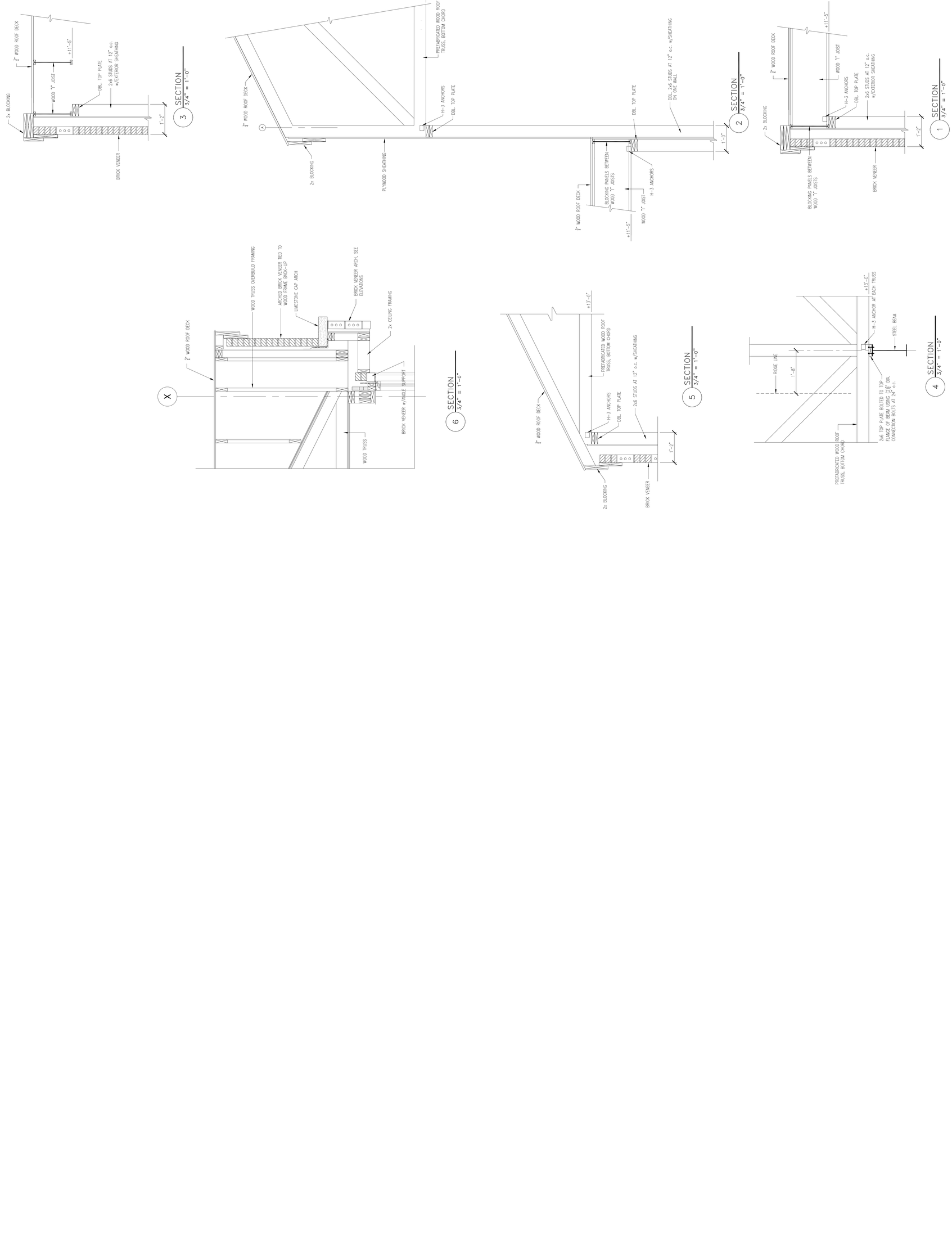
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2024.012 St. Joseph University Catholic Parish
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Framing Sections

S403



EXISTING CONSTRUCTION

1. The Contractor shall field verify the dimensions, elevations, etc. necessary for the proper construction and alignment of the new portions of the work to the existing work. The Contractor shall make all necessary measurements for fabrication and erection of the structural members. Any discrepancy shall be brought to the attention of the Structural Engineer of Record (SER).

2. Before proceeding with any work within the existing facility, the Contractor shall familiarize himself with existing structural and other conditions. Any shoring shown or noted on the Plans is a partial and schematic representation of that required. It shall be the Contractor's responsibility to provide all necessary bracing, shoring, and other safeguards to maintain all parts of the work in a safe condition during the progress of demolition and construction, and to protect from damage those portions of the existing work which are to remain. Shoring shall remain in place until the structural work is complete, has been inspected by the Testing Agency, and is certified to be in substantial compliance with the Contract Documents.

3. When required by the Specifications or by Plan Note, the Contractor shall submit for the SER's review, a "Proposed Shoring Plan", including, but not limited to: plans, sections, details, notes, description of proposed sequence of work, and calculations prepared by, or under the supervision of a Specialty Structural Engineer (SSE). The SSE shall be registered in the State where the project is located.

4. Welding to and within an existing facility presents potential hazards including:

   A. Fire Hazard–Due to the existing construction and building contents.

   B. Structural Liquifaction–Due to welding across the full section of the structural members.

   Recommendations to prevent these hazards include:

   A. Fire Hazard–Protect existing combustibles prior to welding. Keep a separate watchman and several fire extinguishers on hand.

   B. Structural Liquifaction–weld in small increments. Allow welds to harden before continuing to the next increment.

   C. Do not leave the site until satisfied that no fire hazard exists.

   D. Preference should be given to the use of beam clamps, mechanical fasteners, or bolted connections in lieu of welding within existing facilities, whenever possible. Do not field–drill existing structural members without the written permission of the SER.

COORDINATION WITH OTHER TRADES

1. The Contractor shall coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overrides, etc. and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question.

2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.

3. There shall be no vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless it is shown on the Structural Drawings or approved in writing by the SER.

4. Mechanical and electrical openings through supported slabs and walls, 8" diameter, or larger not shown on the Structural Drawings must be approved by the SER. Openings less than 8" diameter shall have at least 1'–0" clear between openings, unless approved in writing by the SER.

5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings with the Mechanical and Electrical Contractors.

6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings.

7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck or wood roof sheathing.

8. The Mechanical Contractor shall verify that mechanical units supported by steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required.

9. If the Drawings and Specifications are in conflict, the most stringent restrictions and requirements shall govern.

GENERAL NOTES

1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The SER will not advise on, nor issue direction as to safety precautions and programs.

2. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of the bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.

3. The SER shall not be responsible for the methods, techniques, and sequences of procedures to perform the Work. The supervision of the Work is the sole responsibility of the Contractor.

4. The Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the SER.

5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.

6. Loading applied to the structure during the process of construction shall not exceed the safe load–carrying capacity of the structural members. The live loads used in the design of this structure are indicated in the "Design Criteria Notes". Do not apply any construction loads until structural framing is properly connected together and until all permanent bracing is in place.

7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless noted otherwise.

8. Shop Drawings and other items shall be submitted to the SER for review prior to fabrication. All shop drawings shall be reviewed by the Contractor before submittal. The SER's review is to be for conformance with the design concept and general compliance with the relevant Contract Documents. The SER's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions associated with the preparation of Shop Drawings as they pertain to member sizes, details, dimensions, etc.

9. Submit Shop Drawings in the form of blueline/blackline prints (min. 2 sets/max. 5 sets), unless the use of electronic submittals has been addressed in the Specifications or approved by the SER in writing. In no case shall reproductions of the Contract Documents be used as Shop Drawings. As a minimum, submit the following items for review:

   A. Concrete Mix Design(s).
   B. Reinforcing Steel Shop Drawings.
   C. Structural Steel Shop Drawings.
   D. Prefabricated Wood Roof Trusses Shop Drawings.

10. Resubmitted Shop Drawings: Resubmitted shop drawings are reviewed only for responses to comments made in the previous submittal.

11. When calculations are included in the submittal for components of Work designed and certified by a Specialty Structural Engineer (SSE), the review by the Structural Engineer of Record (SER) shall be for conformance with the relevant Contract Documents. The SER's review does not relieve the SSE from responsibility for the design of their system(s) and the coordination with the elements of the structure under the certification of the SER, or other SSE's. The SER's review does not constitute a warrant of the accuracy or completeness of the SSE's design.

12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the Work or cost thereof.

13. No structural member may be cut, notched, or otherwise reduced in strength without written direction from the SER.

14. When modifications are proposed to structural elements under the design and certification of a SSE, written authorization by the SSE must be obtained and submitted to the SER for review prior to performing the proposed modifications.

15. Outside corners of all interior CMU shall be bullnose. This includes CMU door and window jambs where CMU jambs are exposed.

DESIGN CRITERIA

1. DESIGN STANDARDS: The intended design standards are as follows:

General	The 2014 Indiana Building Code (2012 International Building Code (IBC) with Indiana Amendments)
Concrete	ACI 318
Masonry	ACI 530
Steel	AISC Manual, Allowable Stress Design (ASD)

   All referenced standards and codes, as well as ASTM numbers, are for the editions of these publications referenced in the Building Code listed above, unless noted otherwise.

2. DEAD LOADS: Gravity dead loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, roofs, ceilings, stairways, fixed partitions, finishes, cladding, and other similar architectural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and fixed service equipment, including the weight of cranes.

4. COLLATERAL LOAD: Unless otherwise noted, a minimum uniform collateral load of 10 PSF has been used to account for ductwork, ceilings, sprinklers, lighting, etc. The collateral load is in addition to the weight of mechanical units, larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.

5. CONCENTRATED LOADS: All single panel points of the lower chord of exposed roof trusses or any point along the primary structural members supporting roofs or all other occupancies shall be capable of carrying safely a suspended concentrated load of not less than 200 LBS in addition to dead load, unless noted.

6. ROOF LIVE/SNOW LOADS: Gravity live loads used in the design of the roof structure meet or exceed the following table:

A.	Snow Load	
	Ground Snow Load, Pg	25 PSF
	Flat Roof Snow Load, Pf	15.4 PSF
	Exposure Factor, Ce	1.0
	Risk Category (IBC Table 1604.5)	III
	Snow Importance Factor, Is	1.10
	Thermal Factor, Ct	1.0
B.	Minimum Roof Live Load	25 PSF
C.	Overhanging Eaves & Projections	55 PSF

   1. Sloped roof snow loads calculated in accordance with Sec. 7.4, ASCE 7.

   2. Unbalanced roof snow loads calculated in accordance with Sec. 7.6, ASCE 7. Specialty Structural Engineers (SSE) must consider unbalanced snow loads in the design of pre–engineered trusses, frames, skylights, curtain walls, cold–formed steel framing, canopies, etc.

   3. Drift loads calculated in accordance with Section 7.7, ASCE 7.

7. LATERAL LOADS: Lateral loads were computed using the following criteria:

A.	Wind Load	
	Ultimate Design Wind Speed, Vult	120 MPH
	Nominal Design Wind Speed, Vasd	94 MPH
	Wind Exposure Category	C
	Risk Category (IBC Table 1604.5)	III
	Internal Pressure Coefficient, GCpi	±0.18
B.	Seismic Load	
	Site Class	D
	Risk Category (IBC Table 1604.5)	III
	Seismic Importance Factor, Ie	1.25
	Design Spectral Response Acceleration, Sds	0.288g
	Design Spectral Response Acceleration, Sd1	0.159g
	Seismic Design Category, SDC	C
	Response Modification Factor, R	3
	Analysis Procedure	Equivalent Lateral Force
	Basic Seismic Force–Resisting System	Ordinary Reinforced Masonry Shear Walls

8. UPLIFT DESIGN CRITERIA: Joist and deck connections shall be capable of resisting the following NET wind uplift pressures:

WIND UPLIFT PRESSURE TABLE

HEIGHT	ZONE 1 (INTERIOR ZONES)	ZONE 2 (END ZONES)	ZONE 3 (CORNER ZONES)
0–15'	20 PSF	30 PSF	40 PSF

NOTE: SEE ASCE 7–10, FIGURE 30.5–1 FOR DEFINITION OF ZONES.

9. SAFETY FACTORS: This structure has been designed with 'Safety Factors' in accordance with accepted principles of structural engineering. The fundamental nature of the 'Safety Factor' is to compensate for uncertainties in the design, fabrication, and erection of structural building components. It is intended that "Safety Factors' be used such that the load–carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of 'Safety Factors' implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

REINFORCED MASONRY NOTES

1. All construction of reinforced masonry walls to be in accordance with the Building Code Requirements for Concrete Masonry Structures (ACI 530) and Commentary.

   A) f'm = 2000 PSI
   B) Maximum height of masonry lift: 5'–0"
   C) Maximum height of grout lift: 5'–0"
   D) See the Specifications for additional masonry wall information.

2. CONCRETE BLOCK: Minimum compressive test strength on the net cross–sectional area: 2800 PSI.

3. MORTAR: Type S required.

4. GROUT: ASTM C476, 2500 PSI with a slump of 8" min. and 10" max.

5. REINFORCING: fy = 60000 PSI with a min. lap of 48 bar diameters.

STRUCTURAL STEEL NOTES

1. Structural steel construction shall conform to the American Institute of Steel Construction "Specification for Structural Steel Buildings".
2. All structural wide flange members shall be ASTM A992, Fy=50 ksi.
3. All plates, channels, bars, angles, and rods shall be ASTM A36, unless noted.
4. All structural tube members shall be ASTM A500, Grade B, unless noted.
5. Details for design, fabrication and erection of all structural steel shall be in accordance with the latest AISC Standards, unless otherwise noted or specified.
6. Provide temporary erection guying and bracing as required.
7. Unless otherwise shown or noted on the Drawings, provide 8" minimum bearing each end for all loose lintels and beams.
8. For loose lintels, masonry shelf angles and other such items generally not shown on the Structural Drawings, refer to the Architectural Drawings. See general notes on lintels this sheet for sizes, reinforcing, etc.
9. Steel columns below grade shall be encased in a minimum of 4" concrete or painted with 2 coats of asphaltum paint, unless otherwise shown.
10. Fabricate simple span beams not specifically noted to receive camber so that after erection, any minor camber due to rolling or shop assembly be upward.
11. Refer to the Division 5 Structural Steel Specification of the Project Manual for structural steel surface preparations and prime painting requirements.
12. Provide cap plates/end plates to close off exposed, open ends of all tubular members, unless noted. Seal weld with partial penetration square groove welds for watertight condition.
13. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.

LINTEL SCHEDULE

1. Where lintels are not specifically shown or noted on the Structural or Architectural Drawings, provide the following lintels over all openings and recesses in both interior and exterior, non–load bearing walls.

   A) Brick:

Masonry Opening	Angle Size
Up to 5'–0"	L4 x 4 x 5/16
Over 5'–0" & up to 7'–0"	L6 x 4 x 5/16
Over 7'–0"	L7 x 4 x 3/8

   All angles are LLV (long leg vertical), unless noted otherwise. Provide 1" of bearing per foot of span each end with minimum 8".

   B) Block: For openings up to 8'–0" long exposed in the finished room, use lintel block filled with grout. Grout all exposed joints and reinforce as follows:

   1) For 6" thick block: 1–#5 bar
   2) For 8" thick block: 2–#5 bars
   3) For 10" thick block: 2–#6 bars
   4) For 12" thick block: 2–#6 bars

   C) Block: For openings Over 8'–0" & up to 12'–0" long exposed in the finished room, use lintel block filled with grout. Grout all exposed joints and reinforce per the "Long Masonry Lintel Detail" on the Typical Masonry Detail Drawing.

   D) Block (stack bond openings over 4'–0"): See framing plans for steel beam lintels. Where not shown on plan, the criteria in the following table shall be used. Contact SER for lintels not shown on plan which do not meet this criteria. See architectural drawings for opening quantities, sizes, locations, heights of wall above, etc.

BLOCK 't'	LINTEL	WIDTH OF OPENING	MAX. ALLOW. HEIGHT OF CMU ABOVE LINTEL
6"	C8x11.5 w/ CONTIN. PL 3/8 x 5	≤ 8'–0"	30'–0"
		≤ 12'–0"	8'–0"
8"	W8x13 w/ CONTIN. PL 3/8 x 7	≤ 8'–0"	30'–0"
		≤ 12'–0"	8'–0"
10"	W8x13 w/ CONTIN. PL 3/8 x 9	≤ 8'–0"	25'–0"
		≤ 12'–0"	8'–0"
12"	W8x28 w/ CONTIN. PL 3/8 x 11	≤ 8'–0"	40'–0"
		≤ 12'–0"	18'–0"

FOUNDATIONS

1. Proofroll slab on grade areas with a medium–weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with compacted, engineered fill as outlined in the specifications. Proofrolling operations shall be monitored by the Geotechnical Testing Agency.

2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 93% of the Modified Proctor maximum dry density (ASTM D–1557). All fill which shall be stressed by foundation loads shall be approved granular materials compacted to a dry density of at least 95% (ASTM D–1557). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation.

3. Compaction shall be accomplished by placing fill in approximate 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 3,000 square feet of building area for each lift as necessary to insure adequate compaction is being achieved.

4. Column footings and wall footings to bear on firm natural soils or well–compacted engineered fill with assumed allowable bearing pressures of 2,000 PSF for column and wall footings.

   It is essential that the foundations be inspected to insure that all loose, soft, or otherwise undesirable material (such as organics, existing uncontrolled fill, etc.) is removed and that the foundations will bear on satisfactory material. The Geotechnical Testing Agency shall inspect the subgrade and perform any necessary tests to insure that the actual bearing capacities meet or exceed the design capacities. The Geotechnical Testing Agency shall verify the bearing capacity at each spread column footing and every 10 feet on center for strip footings prior to placement of concrete.

5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain, or freezing.

6. It is the responsibility of the Contractor and each Sub–Contractor to verify the location of all utilities and services shown, or not shown, and establish safe working conditions before commencing work.

7. The Contractor shall layout the entire building and field verify all dimensions prior to excavation.

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.
2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted.
3. Welded wire fabric shall conform to ASTM A185, unless noted.
4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.
5. Reinforcement in footings and walls shall be continuous. Lap bars a minimum of 36 bar diameters, unless noted otherwise.
6. Reinforcement shall be supported and secured against displacement in accordance with the CRSI 'Manual of Standard Practice'.
7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 'Details and Detailing of Concrete Reinforcement' and ACI 315R 'Manual of Engineering and Placing Drawings for Reinforced Concrete Structures', unless otherwise indicated.
8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discontinue bars at all large openings where necessary, and provide an area of reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one–half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x opening dimension + 4'–0" on each side of the opening. Provide #5 x 4'–0" long diagonal bars in both faces, at each corner of openings larger than 12" in any direction.
9. Provide standees for the support of top reinforcement for footings.
10. Provide individual high chairs with support bars, as required for the support of top reinforcement for support slabs. Do not provide standees.
11. Provide snap–on plastic spacer wheels to maintain required cover for vertical wall reinforcement.
12. Where walls sit on column footings, provide dowels for the wall. Dowels shall be the same size and spacing as the vertical wall reinforcement, unless noted otherwise, with lap splices as shown on the applicable sections. Install dowels in the footing forms before concrete is placed. Do not stick dowels into footings after concrete is placed.
13. Field bending of reinforcing steel is prohibited, unless noted on the drawings.
14. Minimum concrete cover over reinforcing steel shall be as follows, unless noted otherwise on plan, section or note:

MINIMUM COVER FOR REINFORCEMENT

	MINIMUM COVER, IN
WALLS	
FOR DRY CONDITIONS:	
#11 BARS & SMALLER	¾"
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, SEWAGE, WEATHER, OR IN CONTACT WITH GROUND	2"
FOOTINGS & BASE SLABS	
AT FORMED SURFACES & BOTTOMS BEARING ON CONCRETE WORK MAT	2"
AT UNFORMED SURFACES & BOTTOMS IN CONTACT WITH EARTH	3"
TOP OF FOOTINGS	¾"

CAST IN PLACE CONCRETE

1. Details of fabrication of reinforcement, handling, and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised date.

2. Cold weather concreting shall be in accordance with ACI 306. Cold weather is defined as a period when for more than 3 successive days the average daily air temperature drops below 40F and stays below 50F. The Contractor shall maintain a copy of this publication on site.

3. Hot weather concreting shall be in accordance with ACI 305. Hot weather is defined as any combination of the following conditions that tends to impair the quality of the freshly mixed or hardened concrete: high ambient temperature, high concrete temperature, low relative humidity, wind speed, or solar radiation The Contractor shall maintain a copy of this publication on site.

4. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air temperature, concrete cylinder testing, etc. to insure conformance with the Contract Documents. Submit reports to the Architect/Engineer.

5. FINISHING OF SLABS: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.

A.	Floor Slabs	Hard Trowel Finish
B.	Ramps, Stairs, & Sidewalks	Broom Finish
C.	Surfaces to Receive Topping Slabs	Float Finish
D.	Surfaces to receive thick–set mortar floors or similar cementitious materials	Float Finish
E.	Driving Surfaces	Rough Swirl Finish

   Sample Finishes: See the Specifications for sample and mockup requirements, if any.

   Floor Tolerances: See the Specifications for specified FF and FL tolerances. FF and FL testing shall be performed by the Testing Agency in accordance with ASTM E 1155. Results, including acceptance or rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out–of–tolerance work shall be in accordance with the Specifications. When approved by the SER, measurement of the gaps beneath a 10–foot straightedge may be used in lieu of FF and FL testing. Approval must be obtained in writing prior to the beginning of concrete operations.

6. FINISHING OF FORMED SURFACES: Finish formed surfaces as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.

A.	Sides of Footings	Rough Form Finish
B.	Sides of Grade Beams	Rough Form Finish
C.	Surfaces not exposed to public view	Rough Form Finish
D.	Surfaces exposed to public view	Smooth Form Finish

7. The Contractor shall consult with the Engineer before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.

8. Sawn or tooled control/contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. If the column spacing exceeds 20'–0", provide intermediate joints. Exterior slabs, and interior slabs without columns shall have joints spaced a maximum of 15'–0" apart. Layout joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.

9. Where vinyl composition tile, vinyl sheets goods, thin–set epoxy terrazzo, or other similar material is the specified finish floor material, the Contractor shall coordinate the locations of control/contraction and construction joints with the Finish Flooring Contractor. Submit a dimensioned plan showing joint locations and proposed sequence of floor pours.

10. Unless specifically noted on the Plans, composite and non–composite supported slabs on metal deck, and supported cast–in–place concrete slabs do not require sawn control joints.

11. Joints in slabs to receive a finish floor may remain unfilled, unless required by the Finish Flooring Contractor. All exposed slabs shall be filled with sealant as specified in Division 7, or as follows: All slabs in industrial, manufacturing, or warehouse applications subject to wheeled traffic shall be filled with specified epoxy resin sealant, all other joints shall be filled with specified elastomeric sealant. Defer filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling, remove all debris from the slab joints, then fill in accordance with the manufacturer's recommendations.

12. Refer to the Architectural Drawings for locations and details of reveals (1" maximum depth) in exposed walls.

13. Refer to the Architectural Drawings for chamfer requirements for corners of concrete. Where not indicated, provide ¾" chamfers on exposed corners of concrete except those abutting masonry.

14. Refer to the Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings.

15. Sidewalks, stoops, aprons, drives, exterior retaining walls, and other site concrete are not indicated on the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, jointing and finishing details.

POST-INSTALLED DOWELS & ANCHOR BOLTS/RODS

1. All reinforcing steel and threaded rod anchors to be installed in 2–part chemical anchoring system shall be treated as follows:

   A) Drill holes larger than bar or rod to be embedded. Coordinate hole diameter with Manufacturer's requirements.
   B) Holes must be cleaned and prepared in accordance with Manufacturer's requirements.
   C) When reinforcing steel is encountered during drilling for installation of anchors; stop drilling, use a sensor to locate the reinforcing in the surrounding area and install anchor(s) as close as possible to the original location. Contact the Structural Engineer of Record for direction when the revised location is more than 2" from the original location, or when the original function of the anchorage is significantly altered. When in doubt, contact the SER for direction.
   D) Drill the hole to a depth as shown on the drawings with a minimum of 15 bar diameters.
   E) Use a 2–part adhesive anchoring system, Hilti HY–200, or approved equal.
   F) For anchorage into hollow substrate, use Hilti HY–70, or approved equal.
   G) Reinforcing steel dowels shall be ASTM A615, Grade 60, unless noted.
   H) Anchor rods shall be ISO 898 5.8 (Hilti HAS–E), unless noted. Provide finish as noted on the Drawings. If not noted, provide zinc–coated finish for interior applications. Provide stainless steel finish for exterior applications, unless noted.

2. When column anchor bolts/rods have been omitted, or damaged by construction operations, the Contractor must obtain the written approval of the SER prior to repair and/or replacement.

   A) As a precaution, the affected column must be guyed and braced after repair for the balance of the erection period.
   B) As an alternate to guying and bracing, the Contractor may at his option, employ a Testing Agency to perform a tensile pull test to confirm the strength of the repaired or replaced anchor bolt/rod. The tensile proof load must exceed 1.33 x the design load of the original anchor without causing distress of the anchor bolt/rod or the surrounding concrete. Refer to the following table for the minimum proof loads:

¾" diameter:	11.6 kips
⅞" diameter:	16.0 kips
1" diameter:	20.9 kips

      Note: Values listed above are for ASTM F–1554, Grade 36 material. When higher grade or strength materials are specified, refer to the AISC Manual of Steel Construction for minimum allowable loads to be multiplied by 1.33.
   C) When affected anchor bolts/rods are part of a fixed moment–resisting column base, such as those in moment–resisting space frames, canopies, or fixed base installations, the repaired anchor bolts/rods must be proof–loaded, or the affected column footing and/or pier replaced in its entirety.
   D) When affected anchor bolts/rods are 1 ½" diameter or larger, the affected column footing and/or pier must be replaced in its entirety.
   E) When affected anchor bolts/rods are part of a braced frame, the affected column footing and/or pier must be replaced in its entirety.
   F) Prior to erection, the controlling Contractor must provide written notification to the Steel Erector if there has been a repair, replacement or modification of the anchor bolts/rods for that column.

STEEL CONNECTION NOTES

1. Typical beam–to–beam and beam–to–column connections shall be bearing type using A325 bolts, unless noted otherwise.

2. Shop connections unless otherwise shown, may be either bolted or welded. All field connections shall be bolted unless otherwise shown on the Structural Drawings.

3. Connections shall be designed by the Steel Fabricator to support the reactions shown on the framing plan(s). Simple span connections without reactions listed on the Structural Drawings shall be designed by the Steel Fabricator in accordance with Table 3–6 of the AISC "Manual of Steel Construction, 13th Edition". For composite beams where reactions are not indicated, design connections for 75% of the Maximum Total Uniform Load ASD value for the applicable beam size and span given in Table 3–6. For non–composite beams, design connections for 50% of the tabulated ASD value.

4. Submit calculations for connections not detailed on the Structural Drawings and not covered by the AISC Tables, including but not limited to:
   A. Column Splices.
   B. Moment Connections.
   C. Bracing Connections including Collectors and Drag Struts.
   D. Skewed Shear Connections.

5. All beam–to–beam connections shall be double angle, unless shown or noted otherwise.

6. All beam–to–column connections shall be at the column centerline, unless shown or noted otherwise. Shear tab connections to tube columns are permitted unless otherwise noted or detailed.

7. Typical bearing–type beam–to–beam, and beam–to–column field–bolted connections may be tightened to the snug–tight condition, unless otherwise shown or noted.

8. Bolted connections in moment frames, bracing connections, hangers and stub columns, crane connections, and those designated PT (pretensioned) on the Drawings shall be pretensioned joints utilizing tension–control (TC) bolts or direct tension indicators. Holes for PT bolts shall be 1/16" larger than the bolt diameter. All pretensioned joints must be inspected by the Testing Agency.

9. Connect bracing members for two components of stress unless otherwise approved by the SER. Provide a minimum 2–bolt or welded field connection.

10. Locate centerlines of all vertical bracing members on column centerlines in vertical plane and on column and beam centerlines in horizontal plane, unless otherwise shown on the Structural Drawings.

11. All welding shall be in conformance with AWS D1.1, using E70XX electrodes, unless shown or noted otherwise. Welding, both shop and field, shall be performed by welders certified for the weld types and positions involved according to the current edition of AWS D1.1. Perform all AESS welds with care to provide a clean, uniform appearance.

12. Backup bars required for welded connections shall be continuous.

13. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes in structural steel shall not be allowed without approval of the SER.

14. The minimum thickness of all connection material shall be 5/16", unless noted.

15. Continuous bent plate and angle slab closures, roof edges, diaphragm chords, etc. around the perimeter of the floor and roof, as well as around openings shall be welded with a minimum ¼" fillet weld x 2" long at 12" o.c., top & bottom, unless noted otherwise. Butt weld joints in continuous diaphragm chords for continuity. For continuous perimeter angles and bent plates perpendicular–to and connected to the top chords of joists, provide a minimum 3" of ¼" weld at each joist. Continuous angle and bent plate closures may be shop–applied to the supporting structural members only when requested and approved in writing by the SER.

16. A qualified independent Testing Agency shall be retained to perform inspection and testing of structural steel field weldments as follows:

WELD INSPECTION SCHEDULE

WELD TYPE	VT	MT	UT	PT	RT	COMMENTS
FILLET (SINGLE PASS)	25%	–	–	–	–	ROOT PASS AND FINISHED WELD
FILLET (MULTIPLE PASS)	50%	25%	–	–	–	
FLARE BEVEL/ FLARE V	25%	–	–	–	–	
GROOVE (PARTIAL PENETRATION)	100%	–	100%	–	–	REFERENCE NOTE 'E' BELOW
GROOVE (FULL PENETRATION)	100%	–	100%	–	–	ALL FULL PENETRATION WELDS

   A) Test procedures:
      VT = Visual Test (inspection)
      MT = Magnetic Particle Test: ASTM E109, cracks or incomplete fusion or penetration not acceptable.
      UT = Ultrasonic Test: ASTM E164.
      PT = Penetrant Test, ASTM E165.
      RT = Radiographic Test, ASTM E94 and ASTM E142, min. quality level 2–21.
   B) Acceptance standards in AWS D1.1 shall be followed for each test procedure.
   C) Test procedures may be substituted to meet feasibility requirements of test based upon weld geometry or other factors with the approval of the SER.
   D) Samples shall occur at random locations; additional tests may be required at locations noted on the Drawings.
   E) Groove welds include square, bevel, V, U, and J grooves including single and double pass types.
   F) Partial penetration square groove welds at end seal plates of tubular members do not require inspection.
   G) Weld Procedure Specifications (WPS) shall be produced and maintained in accordance with AWS D1.1. The independent Testing Agency shall have access to all WPS's during the course of testing and inspection.
   H) For highly–restrained welded joints, especially in thick plates and/or heavy structural shapes, detail the welds so that shrinkage occurs as much as possible in the direction the steel was rolled. Refer to the AISC Manual for preferred welded–joint arrangements that reduce the possibility for lamellar tearing. Members scheduled to receive highly–restrained connections shall be tested by the independent Testing Agency by Ultrasonic Testing prior to commencing welding.
   I) In addition to inspection requirements for fillet welds in Table above, 100% of field welding of diagonal bracing members to gusset plates shall be visually inspected (VT).

SPECIALTY STRUCTURAL ENGINEERING (SSE)

1. A Specialty Structural Engineer (SSE) is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record (SER), who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific specialty.

2. It is the SSE's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.

3. It is the intent of the Drawings and Specifications to provide sufficient information for the SSE to perform his design and analysis. If the SSE determines there are details, features, or unanticipated project limits which conflict with the engineering requirements as described in the project documents, the SSE shall in a timely manner contact the SER for resolution of conflicts.

4. The SSE shall forward documents to the SER for review. Such documents shall bear the stamp of the SSE and include:

   A) Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems.
   B) Calculations.
   C) Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the SSE as an indication that said SSE has accepted responsibility for the results.

5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Structural Engineering. Examples of components requiring Specialty Structural Engineering include, but are not limited to the following:

   A) Structural Steel Connections.
   B) Prefabricated Wood Roof Trusses

6. When modifications are proposed to elements under the design and certification of the SSE, written authorization by the SSE must be obtained and submitted to the SER for review prior to performing the proposed modification.

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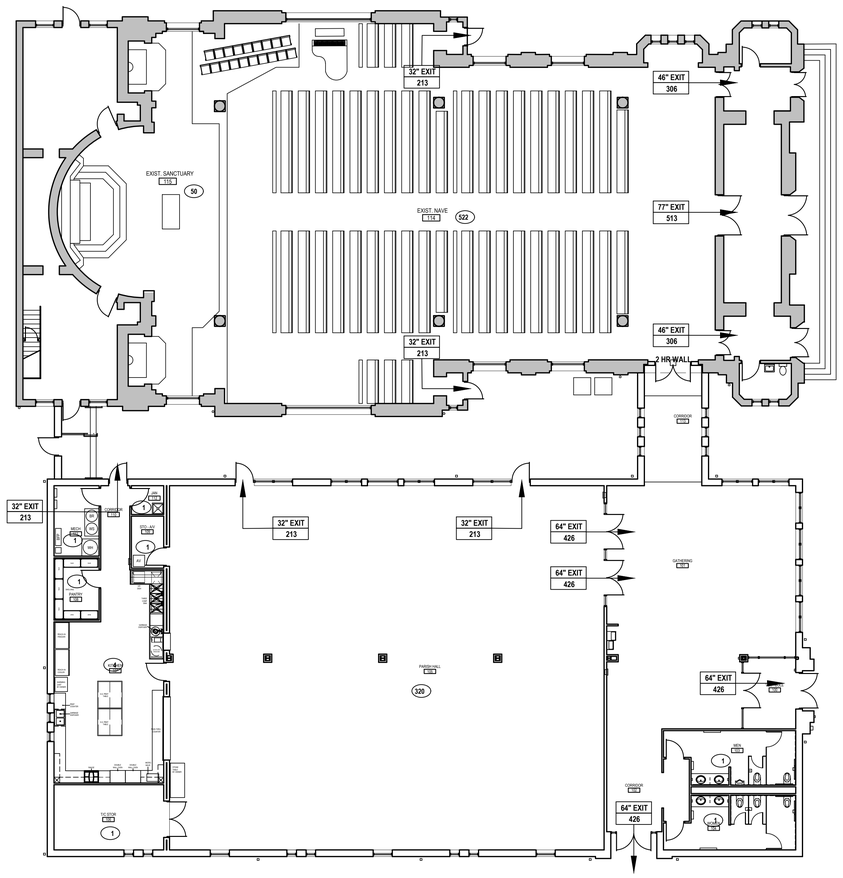
WESLEY B. HARRISON REGISTERED PE60860410 STATE OF INDIANA PROFESSIONAL ENGINEER

Project No. 2024.012
Project Date September 1, 2026
Produced wbh
Revision Date

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2024.012 St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807
Structural Notes

S501



1 Life Safety Plan

Scale: 1/16" = 1'-0"

CODE SUMMARY

Applicable Code:	**2014 Indiana Building Code**	**Code Ref.**
Scope of Project:	Project includes the addition of a Parish Hall with kitchen, storage and restrooms. New construction will be connected to an existing building by a connecting corridor.	
Occupancy Classification:	Group A2: Building will be used as a Parish Hall. Group A3: Existing building will continue to be used for religious purposes.	Section 305 Section 303.4
Occupant Load:	Existing: A3 Assembly w/ fixed seating: Pews@18"/person Sanctuary: 15 sf/person gross New Construction: A2 Parish Hall w/ tables & chairs 15 sf/person net Kitchen 200 sf/person gross	Table 1004.4 Table 1004.1.2 Table 1004.1.2
Construction Type:	Type V-B construction permitted based on use and allowable area. New construction is to be sprinkled.	Section 602.5
Allowable Area	Group A2 (new construction) Tabular Area: 6,000 SF (Table 503) Frontage Increase: 1,500 SF (Section 506.2) Automatic Sprinkler System Increase: 18,000 SF (Section 506.3) Total Allowable Area: 25,500 SF Actual Building Area: 8,835 SF	Section 506.1
Building Elements, Fire Resistive Requirements:	Type V construction is that type of construction in which the structural elements, exterior walls and interior walls are of any material permitted by this code. Structural Frame 0 hours Bearing Walls Exterior 0 hours Interior 0 hours Floor Construction 0 hours Roof Construction 0 hours Exterior walls are non-rated. Variance #26-08-46 for use of close-spaced sprinklers in lieu of 1 hour wall construction facing existing church.	Section 602.5 Table 601 Table 602
Fire Walls	Variance # 26-08-46 for use of close-spaced sprinklers and 2 hr wall at opening at church connector in lieu 4 hr. separation wall.	
Fire Barriers	None provided.	903.3.1.1.1
Fire Partitions	None provided.	
Non-rated, Incidental Use Separation:	Non Hazardous Storage rooms are ancillary to the main occupancy of the building, and comply with Table 509.	
Corridors	Corridors are not required to be of one-hour rated construction since the building is provided with an automatic fire protection system.	Table 1018.1
Automatic Sprinkler Requirements:	The building (new construction) shall be equipped with an automatic fire-suppression system since the fire area exceeds 5,000 square feet and the fire load has an occupancy load greater than 100.	903.2.1.2

LIFE SAFETY PLAN LEGEND

100 Occupant Load

32" — ACTUAL WIDTH
199 — MAXIMUM LOAD

PLUMBING FACILITY REQUIREMENTS (TABLE 2902.1)

Restrooms:	**Water Closets**				**Lavatories**				**Drinking Fountains**		**Service Sinks**	
	Male (160) Req'd	/ Act	Female (160) Req'd	/ Act	Male (160) Req'd	/ Act	Female (160) Req'd	/ Act	Total (320) Req'd / Act		Req'd	/ Act
Parish Hall Capacity (max. occupant load 319)	3	3	3	3	1	2	1	2	1	2 Fountains 1 Bottle Filler	1	1

Notes:

- The occupant load in accordance with Section 1004.1 is listed on the Life Safety Plans and is utilized to determine the means of egress.

REFERENCE SYMBOL LEGEND

BUILDING / WALL SECTION
ELEVATION
KEY NOTE
BUILDING MATCHLINE
NAME / ROOM NAME / NUMBER
DEMOLITION NOTE
ELEVATION
DOOR NUMBER
DATUM
DETAIL
WINDOW TYPE
REVISON NOTE
COLUMN CENTERLINES
WALL TYPE

MATERIALS LEGEND

BRICK
CMU
CONCRETE
GYPSUM BOARD
RIGID INSULATION
BATT INSULATION
GRAVEL
FINISHED WOOD
ROUGH WOOD
EARTH

STANDARD WALL TYPE DESIGNATIONS

EXTERIOR WALL TYPES

Scale: 1" = 1'-0"

INTERIOR WALL TYPES

Scale: 1" = 1'-0"

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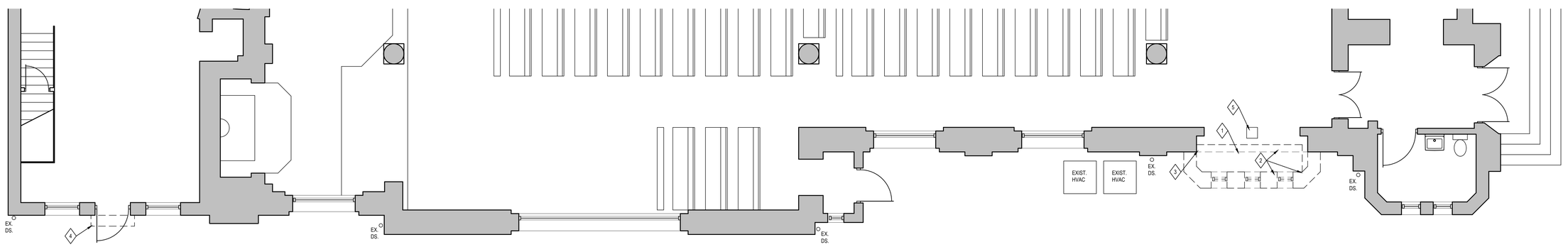
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Revision Date

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2024.012 St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

Life Safety Plan / Code Analysis

A001



DEMOLITION GENERAL NOTES

NOTE THAT, FOR CLARITY, SOME NEW CONTRUCTION (NON-DEMOLITION) WORK IS DESCRIBED IN THE FOLLOWING NOTES.

1. REFER TO THE GENERAL NOTES ON THE COVER SHEET OF THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

2. COORDINATE ALL DEMOLITION WORK WITH THE OTHER WORK OF THE PROJECT AND WITH THE REQUIREMENTS OF ALL CONTRACTORS AND TRADES FOR THE SUCCESSFUL COMPLETION OF THEIR WORK.

3. REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND FOOD SERVICE DRAWINGS AS APPLICABLE FOR SPECIFIC INFORMATION, DIMENSIONS, LOCATIONS, ETC. REGARDING THE EXACT EXTENT OF DEMOLITION REQUIRED.

4. COORDINATE WITH THE MECHANICAL, PLUMBING, ELECTRICAL, AND FOOD SERVICE CONTRACTORS REGARDING THEIR SELECTIVE DEMOLITION OF EXISTING MECHANICAL, PLUMBING, ELECTRICAL, AND FOOD SERVICE EQUIPMENT AND COMPONENTS.

5. ALL EXISTING EQUIPMENT, FIXTURES, AND COMPONENTS THAT ARE TO BE REMOVED (INCLUDING BUT NOT LIMITED TO: CASEWORK / CABINETS, DOORS, DOOR HARDWARE, LIGHT FIXTURES, ETC.) AND IDENTIFIED BY THE OWNER PRIOR TO THE COMMENCEMENT OF DEMOLITION TO BE SAVED SHALL BE CAREFULLY REMOVED SO AS NOT TO DAMAGE OR MAR THE ITEM, TRANSPORTED BY THE CONTRACTOR TO THE OWNER'S STORAGE AREA, UNLOADED, AND TURNED OVER TO THE OWNER. ALL OTHER REMOVED ITEMS AND DEBRIS ARE TO BE LEGALLY DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR(S) SHALL COORDINATE WITH THE OWNER REGARDING THE OWNER'S SELECTION OF EXISTING ITEMS TO BE SAVED (AS DESCRIBED ABOVE) AND REGARDING THE OWNER'S STORAGE AREA.

6. WHERE EXISTING FASTENERS, ANCHORS, ETC. ARE LEFT EXPOSED BY THE REMOVAL OF ADJACENT CONSTRUCTION, FIXTURES, ETC., REMOVE OR CUT-OFF THESE EXISTING ELEMENTS TO A DEPTH SUFFICIENT TO ALLOW FOR CONCEALMENT BY NEW CONSTRUCTION AND/OR TO ALLOW FOR PROPER PATCHING OF THE EXISTING ADJACENT CONSTRUCTION, MATERIAL, AND/OR FINISH TO REMAIN. COORDINATE WITH THE APPROPRIATE TRADES. COORDINATE WITH RELATED WORK AS DESCRIBED IN THESE CONSTRUCTION DRAWINGS.

7. COORDINATE WORK DESCRIBED IN THESE DEMOLITION GENERAL NOTES AND THE DEMOLITION PLAN KEY NOTES (FOUND ON THIS DRAWING SHEET).

8. AT EXISTING CONCRETE FLOOR SLAB SURFACES: FILL, PATCH, AND LEVEL ALL HOLES, BLEMISHES, DEPRESSIONS, ABANDONED SLOPES TO DRAIN, ABANDONED PENETRATIONS, ETC. (WHETHER EXISTING OR RESULTING FROM DEMOLITION) AS REQUIRED TO ESTABLISH A SMOOTH, UNIFORM, LEVEL SURFACE FLUSH WITH THE ADJACENT EXISTING CONCRETE SURFACE AND APPROPRIATE TO RECEIVE THE SCHEDULED NEW FINISH FLOORING MATERIALS. PATCHING OF THE EXISTING SURFACES (AS DESCRIBED ABOVE) IS TO BE AS DESCRIBED IN THE FLOOR PATCHING CRITERIA (FOUND ON THIS SHEET).

9. AT EXISTING FLOOR SURFACES NEWLY EXPOSED BY THE DEMOLITION OF WALLS OR OTHER CONSTRUCTION, REMOVE ANY RESIDUE, FASTENERS, OR OTHER FOREIGN MATERIALS. ESTABLISH SMOOTH, LEVEL FLOOR SURFACE APPROPRIATE TO RECEIVE NEW CONSTRUCTION OR FINISHES.

10. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND RELATIONSHIPS.

11. CONTRACTORS ARE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURFACES, MATERIALS, COMPONENTS, ETC. TO REMAIN. ANY DAMAGE TO THESE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REPAIRED BY THE RESPONSIBLE CONTRACTOR BY THE APPROPRIATE TRADES TO THE SATISFACTION OF THE OWNER AND THE ARCHITECT AT NO ADDITIONAL EXPENSE TO THE OWNER.

12. UNLESS INDICATED OTHERWISE, THE OWNER WILL RE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING LOOSE FURNISHINGS AND EQUIPMENT PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.

REFER TO CIVIL DRAWINGS FOR SITE & DEMOLITION WORK. OWNER WILL REMOVE STATUES AND ANY OTHER SALVAGE ITEMS PRIOR TO WORK.

DEMOLITION PLAN KEY NOTES:

NOTE THAT, FOR CLARITY, SOME NEW CONSTRUCTION (NON-DEMOLITION) WORK IS DESCRIBED IN THE FOLLOWING NOTES AND INDICATED ON THE DEMOLITION PLANS.

1. REMOVE EXISTING RAISED PLATFORM.
2. REMOVE EXISTING SHRINE ROOM IN ITS ENTIRETY INCLUDING MASONRY WALLS, WINDOWS, ROOF & ROOF STRUCTURE. CLEAN AND PREPARE REMAINING INTERIOR / EXTERIOR SURFACES FOR NEW CONNECTOR CORRIDOR AS SHOWN ON SHEET A101 FLOOR PLAN. SALVAGE STAINED GLASS WINDOWS AND RETURN TO OWNER.
3. REMOVE WINDOW & PORTION OF EXISTING LIMESTONE SILL AT WINDOW NOT SUPPORTING EXTERIOR BRICK AND/OR WINDOW SILL ABOVE SHRINE ROOM. PREPARE EXISTING OPENING FOR NEW STUD & MASONRY WALL AS SHOWN ON WALL SECTION 5/A301. EXISTING STAINED GLASS TO BE REMOVED BY OWNER'S SEPARATE GLASS CONTRACTOR.
4. REMOVE EXISTING CONCRETE STEP AT SACRISTY DOOR AS INDICATED ON CIVIL ENGINEERING DRAWINGS, PREPARE FOR NEW CONCRETE SLAB ON GRADE.
5. REMOVE FLOOR GRILLE AND INFILL FLOOR TO MATCH EXISTING, REFER TO STRUCTURAL DRAWINGS.

1 Demolition Plan
Scale: 1/4" = 1'-0"
NORTH

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KEVIN D. STUCKWISCH REGISTERED No. AR00920099 STATE OF INDIANA ARCHITECT

Project No. 2024.012
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Revision Date

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St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

2024.012
Demolition Plan
AD101

FLOOR PLAN GENERAL NOTES:

1. REFER TO THE GENERAL NOTES ON THE COVER SHEET OF THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF STUD OR MASONRY UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR" OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
3. WHERE NEW FLOORS MEET EXISTING FLOORS A SMOOTH, STRAIGHT AND FLUSH TRANSITION SHALL BE CONSTRUCTED. VERIFY IN FIELD EXISTING FLOOR ELEVATIONS AND CONDITIONS WHERE A NEW FLOOR IS TO BE CONSTRUCTED ADJACENT. TRIM AND PATCH EXISTING FLOOR AS REQUIRED TO ACHIEVE A FLUSH TRANSITION.
4. SOLID HATCHING WITHIN WALLS SHOWN IN PLANS INDICATES EXISTING CONSTRUCTION.
5. ALL DOOR FRAMES ARE LOCATED 4" FROM ADJACENT WALLS UNLESS NOTED OTHERWISE.
6. SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.
7. ALL GYPSUM WALL BOARD IS 5/8" TYPE "X" UNLESS NOTED OTHERWISE.
8. PATCH AND REPAIR ALL INTERIOR ROOM FINISHES DISTURBED FOR CONSTRUCTION TO MATCH EXISTING FINISHES.
9. V.I.F. = VERIFY IN FIELD BY CONTRACTOR.

FLOOR PLAN KEY NOTES

1. DRINKING FOUNTAIN/BOTTLE FILLER, SEE PLUMBING DRAWINGS
2. MOP SINK, SEE PLUMBING DRAWINGS
3. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
4. ALL INTERIOR WALLS ARE TYPE 'A' UNLESS OTHERWISE NOTED. ALL EXTERIOR WALLS ARE TYPE 'E'.
5. SEE SHEET A304 FOR COURTYARD STEP DETAILS AND DIMENSIONS.
6. CENTER NEW MASONRY WALL ON EXISTING EXTERIOR WALL BETWEEN SACRISTY DOOR & WINDOW. PROVIDE 1" EXPANSION JOINT AT BOTH ENDS OF NEW MASONRY WALL. CAULK JOINT. SEE STRUCTURAL DRAWINGS.
7. RELOCATED STAINED GLASS WINDOW.
8. KNOX-BOX (CONFIRM EXACT REQUIREMENTS w/ FIRE DEPARTMENT.
9. WALL TILE LOCATIONS, SEE ROOM FINISH SCHEDULE SHEET A501.
10. PROVIDE 1" EXPANSION WHERE CONNECTOR CORRIDOR ABUTS EXISTING CHURCH BRICK, CAULK JOINT. SEE STRUCTURAL DRAWINGS.
11. INFILL FLOOR TO MATCH EXISTING, REFER TO STRUCTURAL DRAWINGS.
12. ADA DOOR ACTIVATOR BUTTON.

1 Floor Plan
Scale: 1/4" = 1'-0"
8,856 TOTAL SF

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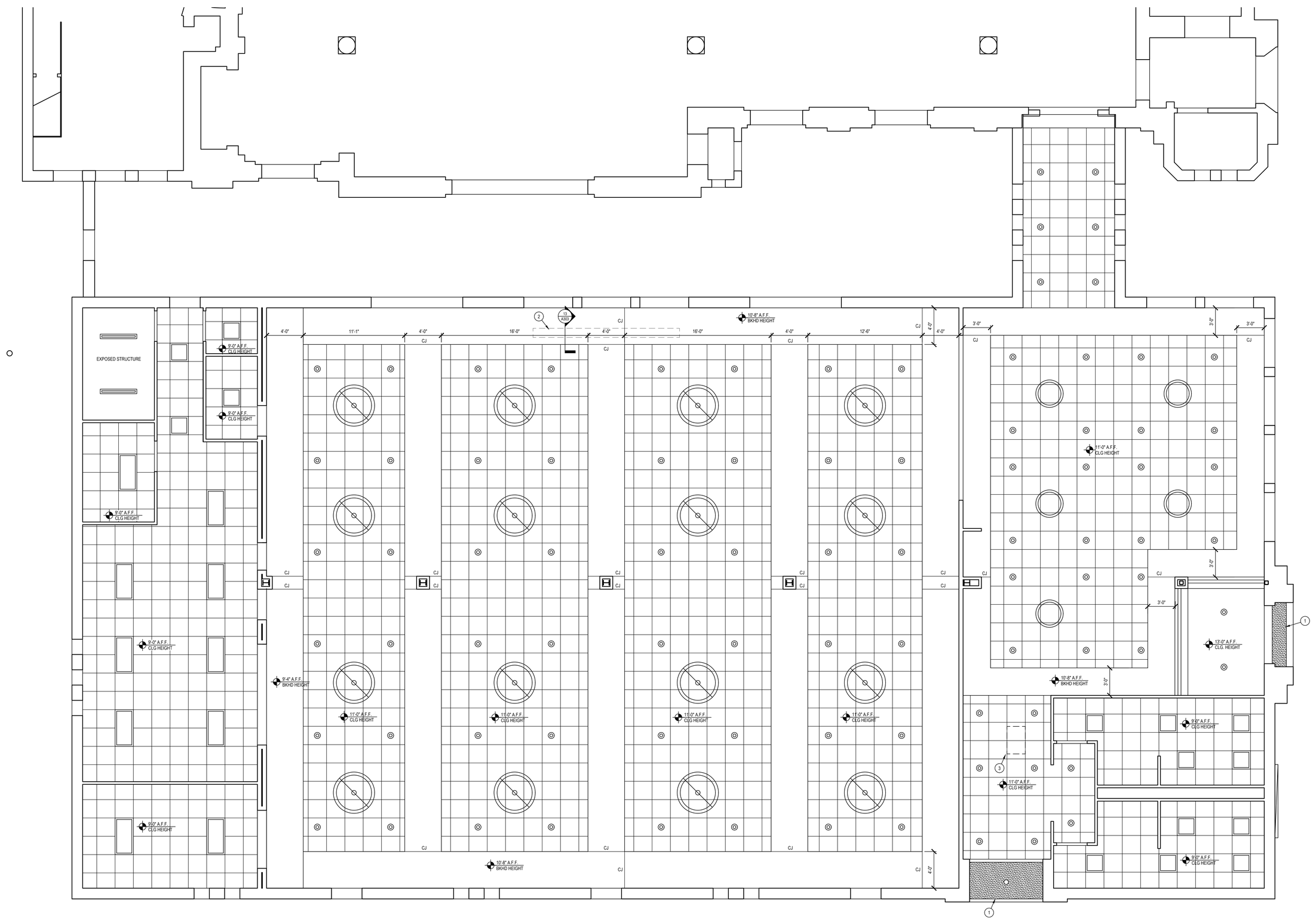
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St. Joseph University Catholic Parish
New Parish Hall
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2024.012
Floor Plan
A101



REFLECTED CEILING PLAN LEGEND

- LAY-IN ACOUSTIC CEILING TILE
- GYPSUM WALLBOARD
- RETURN OR EXHAUST AIR DIFFUSER
- SUPPLY AIR DIFFUSER
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED SPEAKER
- CJ CONTROL JOINT

GENERAL CEILING PLAN NOTES

A. ALL CEILING GRIDS TO BE CENTERED WITHIN ROOM, UNLESS NOTED OTHERWISE

B. COORDINATION OF DUCTWORK, PIPING, LIGHTS, AND CEILING SUPPORTS ARE THE RESPONSIBILITY OF ALL TRADE CONTRACTORS. CONTRACTORS WILL TAKE ALL RESPONSIBILITY FOR ITEMS THAT CONFLICT DUE TO LACK OF FIELD COORDINATION.

C. REFER TO MATERIAL FINISH SCHEDULE FOR TYPE OF LAY-IN CEILING.

D. REFERENCE MECHANICAL /ELECTRICAL DRAWINGS FOR MECHANICAL / ELECTRICAL ITEMS NOT INDICATED ON THIS REFLECTED CEILING PLAN.

CEILING PLAN KEY NOTES

1. DIRECT APPLIED SYNTHETIC STUCCO FINISH OVER 1/2" EXTERNAL GYPSUM SHEATHING.
2. MOTORIZED ROLLING PROJECTOR SCREEN IN BULKHEAD ABOVE WINDOW, SEE DETAIL 13/A303. SEE AUDIO/VISUAL PLANS.
3. 24"x36" 2x STUD FRAMED ATTIC ACCESS w/ INSULATED PLYWOOD LID AT BOTTOM CHORD OF ROOF TRUSSES ABOVE.

1 Reflected Ceiling Plan
Scale: 1/4" = 1'-0"

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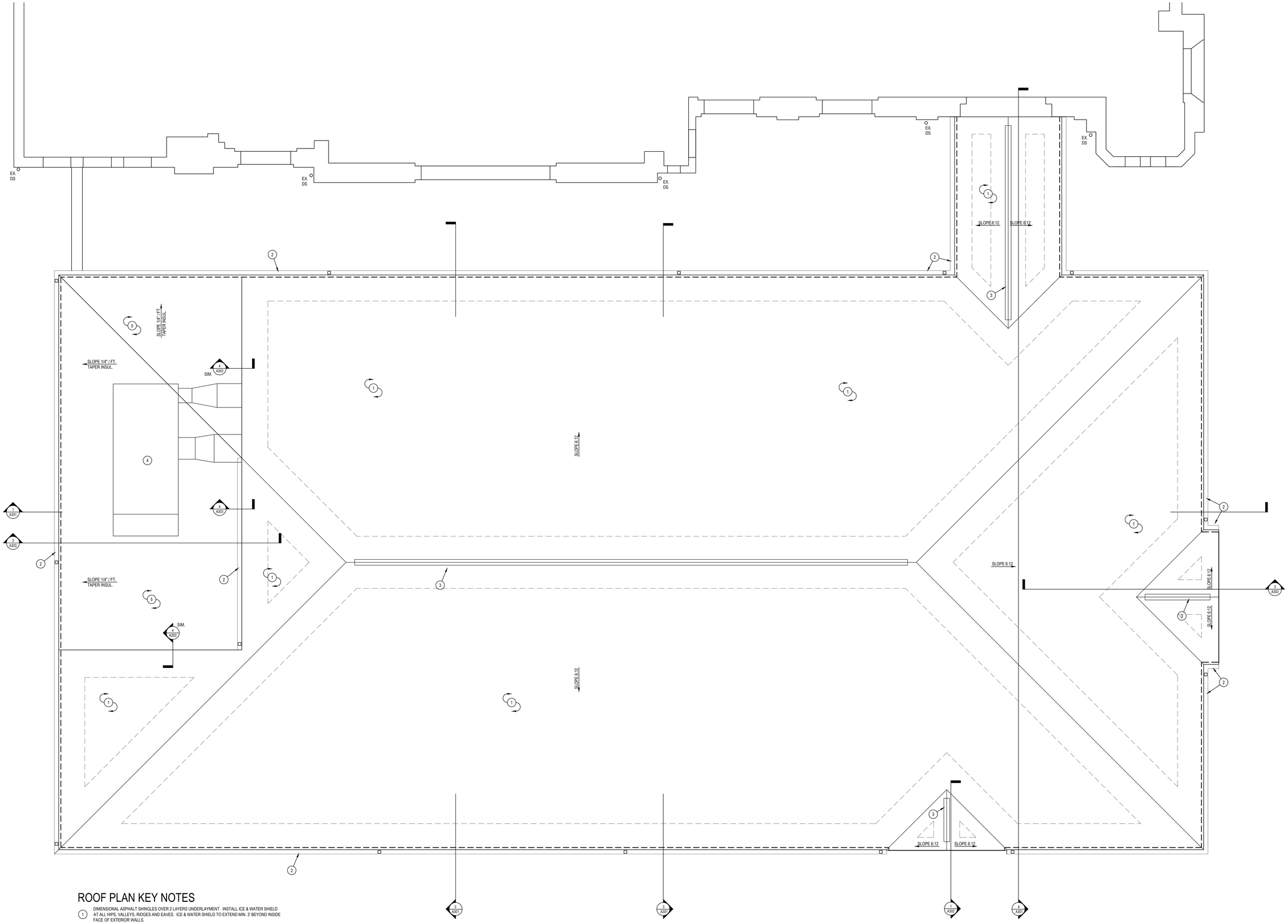
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2024.012 **St. Joseph University Catholic Parish**
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

Reflected Ceiling Plan

A102



ROOF PLAN KEY NOTES

1. DIMENSIONAL ASPHALT SHINGLES OVER 2 LAYERS UNDERLAYMENT. INSTALL ICE & WATER SHIELD AT ALL HIPS, VALLEYS, RIDGES AND EAVES. ICE & WATER SHIELD TO EXTEND MIN. 3' BEYOND INSIDE FACE OF EXTERIOR WALLS.
2. PRE-FINISHED 6" ALUMINUM GUTTER.
3. RIDGE VENT
4. ROOF TOP UNIT, SEE MECHANICAL PLANS
5. 60 MIL EPDM ROOFING OVER MIN. 2 LAYERS 2" POLYISOSANURATE INSULATION. STAGGER (TAPPERED) JOINTS 8" MIN. FROM BASE LAYER OF INSULATION.

1 Roof Plan
Scale: 1/4" = 1'-0"

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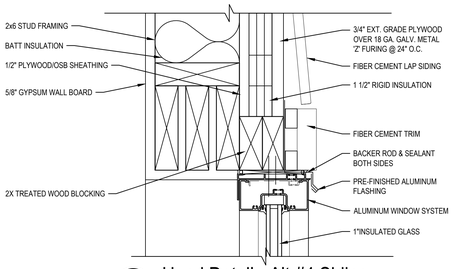
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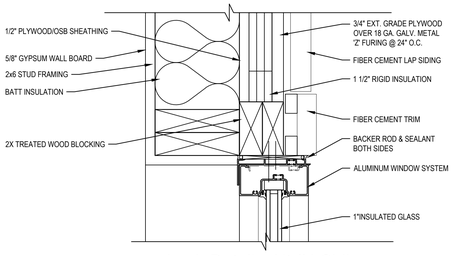
2024.012 **St. Joseph University Catholic Parish**
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

Roof Plan

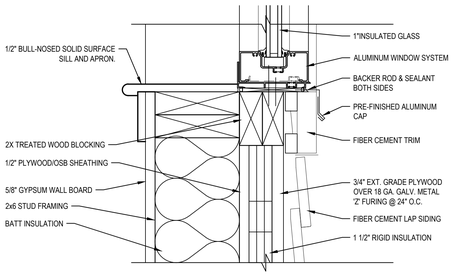
A103



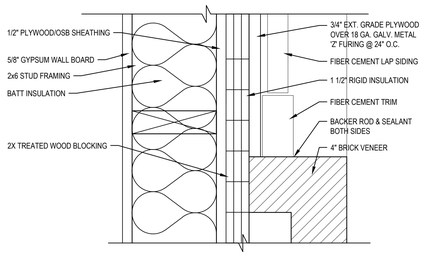
9 **Head Detail - Alt #4 Siding**
Scale: 3" = 1'-0"



8 **Jamb Detail - Alt #4 Siding**
Scale: 3" = 1'-0"



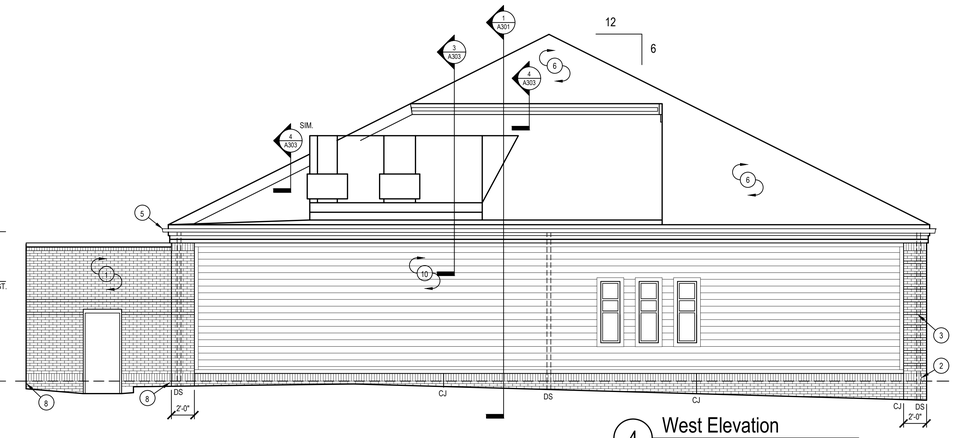
7 **Sill Detail - Alt #4 Siding**
Scale: 3" = 1'-0"



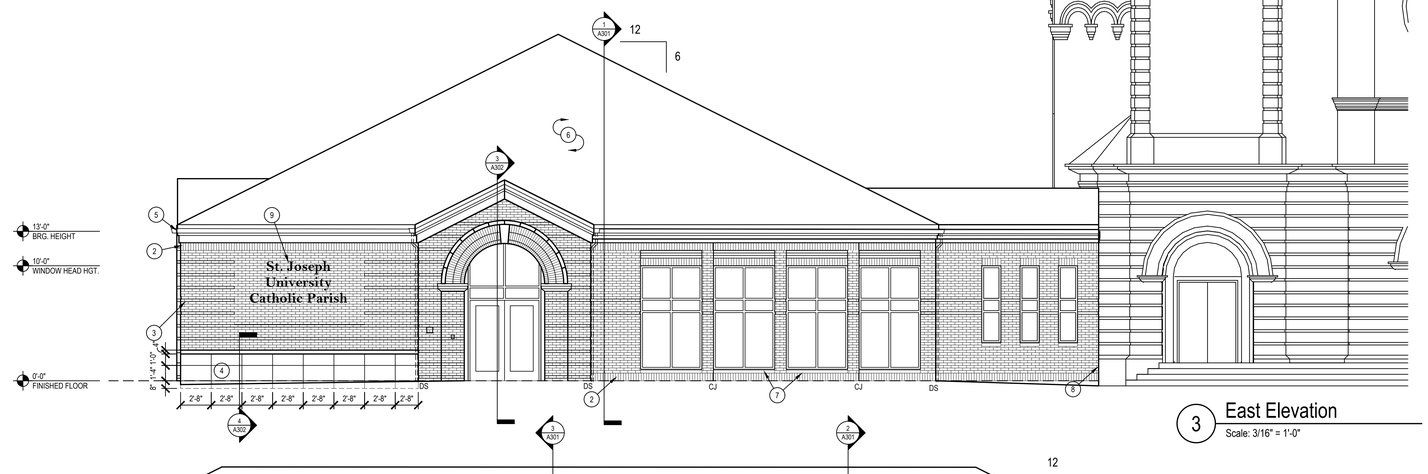
6 **Jamb Detail @ Brick - Alt #4 Siding**
Scale: 3" = 1'-0"

ELEVATION KEY NOTES

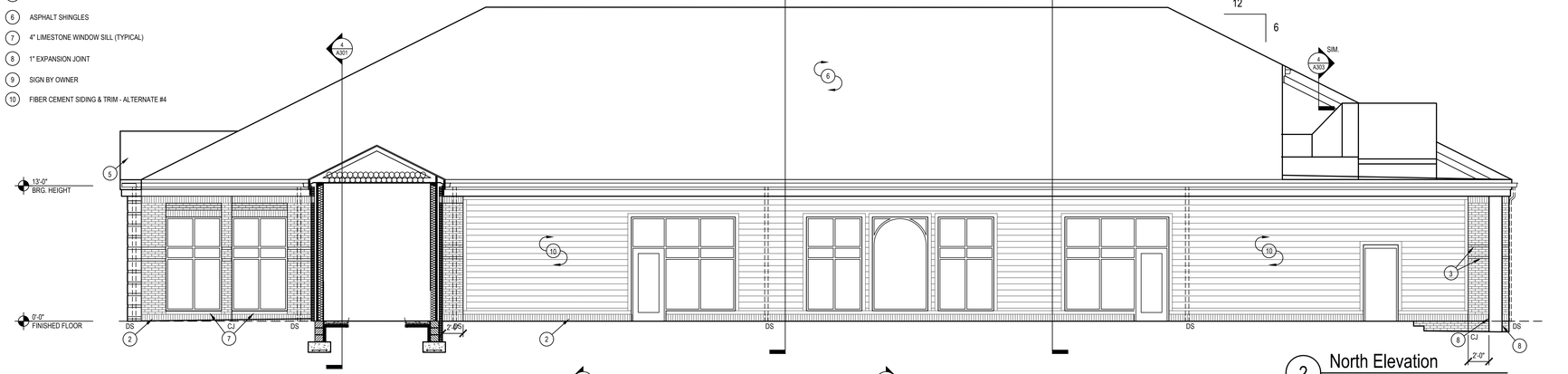
1. FACE BRICK
2. FACE BRICK SOLDIER COURSE
3. 3/8" RECESSED BRICK (3/4" RECESS - ALT. #5)
4. LIMESTONE PANELS
5. PREFINISHED METAL GUTTERS (TYPICAL)
6. ASPHALT SHINGLES
7. 4" LIMESTONE WINDOW SILL (TYPICAL)
8. 1" EXPANSION JOINT
9. SIGN BY OWNER
10. FIBER CEMENT SIDING & TRIM - ALTERNATE #4



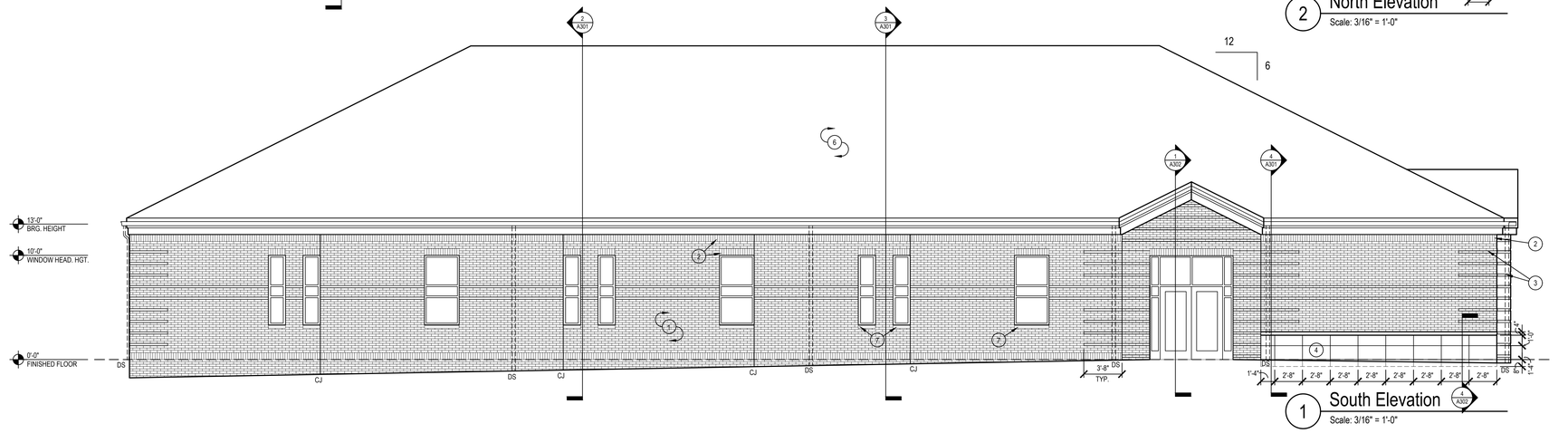
4 **West Elevation**
Scale: 3/16" = 1'-0"



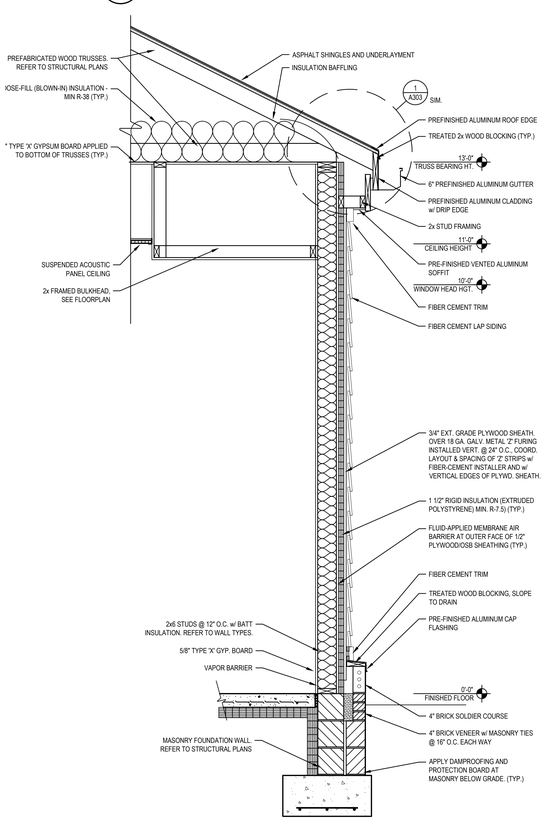
3 **East Elevation**
Scale: 3/16" = 1'-0"



2 **North Elevation**
Scale: 3/16" = 1'-0"



1 **South Elevation**
Scale: 3/16" = 1'-0"



5 **Wall Section - Alt #4 Siding**
Scale: 3/4" = 1'-0"

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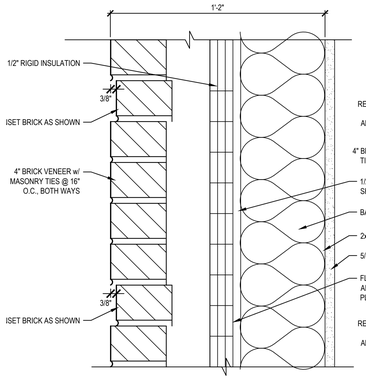
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Project Date September 1, 2026
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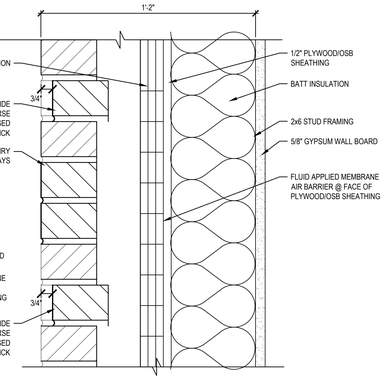
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New Parish Hall
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Terre Haute, Indiana 47807

Elevations

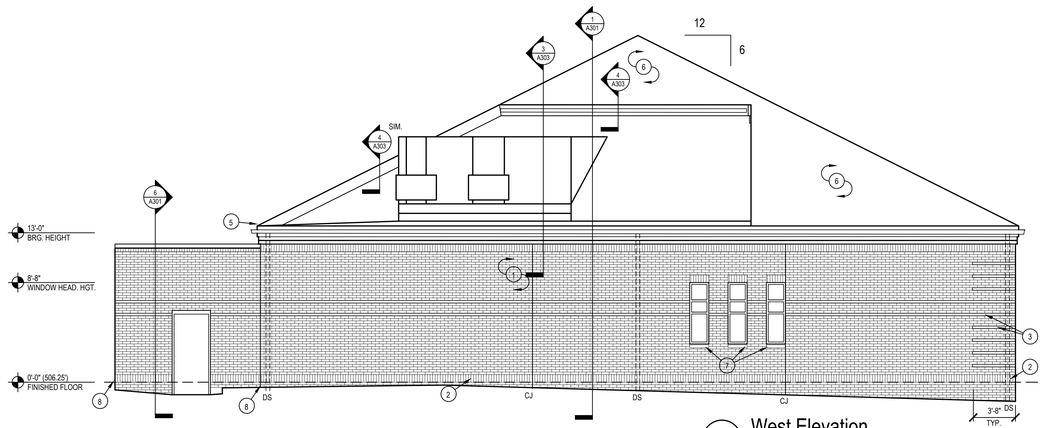
A201 ALT.



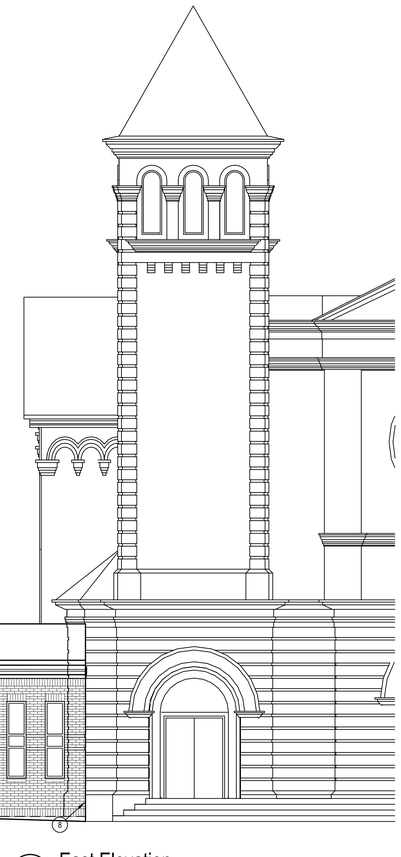
8 Typical Brick Recess Detail
Scale: 3" = 1'-0"

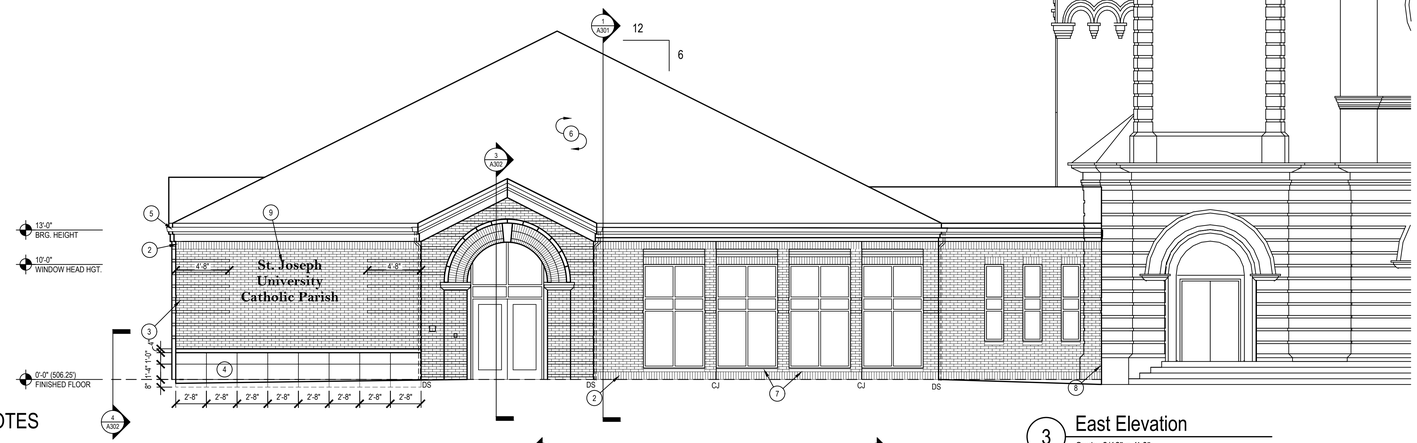


9 3/4" Brick Recess Detail (Alt #5) (Typical All Recessed Brick)
Scale: 3" = 1'-0"

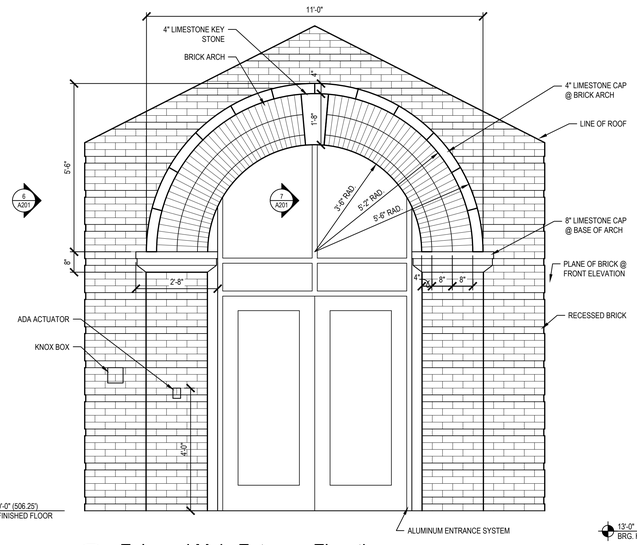


4 West Elevation
Scale: 3/16" = 1'-0"





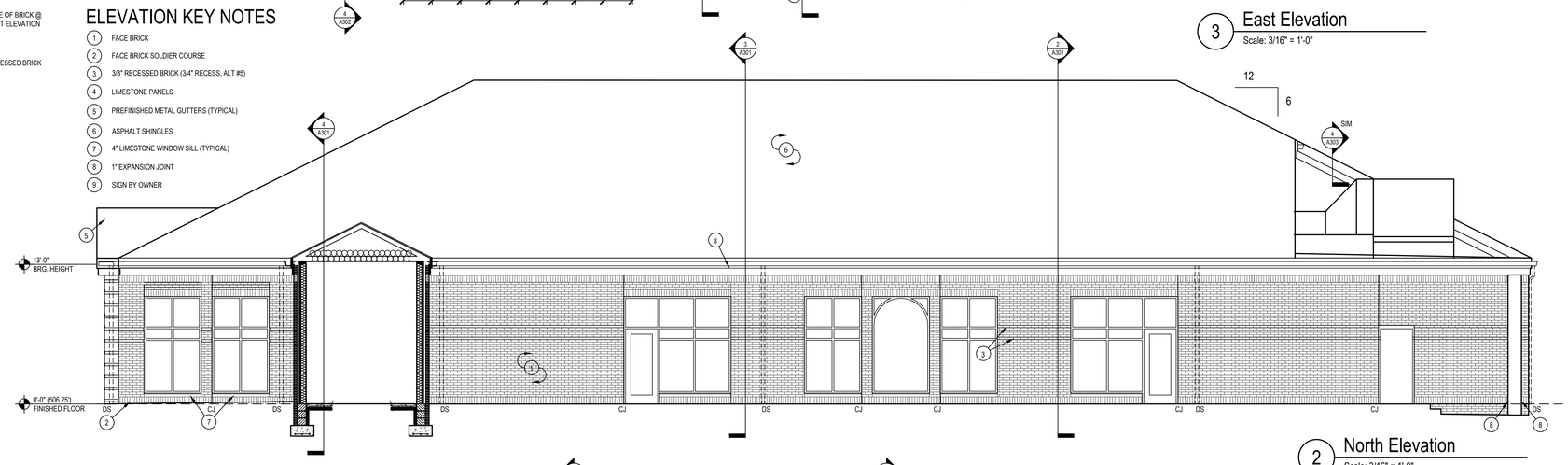
3 East Elevation
Scale: 3/16" = 1'-0"



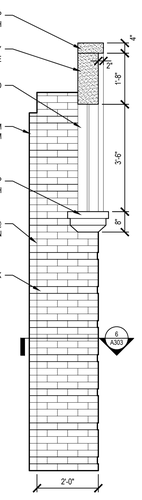
5 Enlarged Main Entrance Elevation
Scale: 1/2" = 1'-0"

ELEVATION KEY NOTES

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2. FACE BRICK SOLDIER COURSE
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8. 1" EXPANSION JOINT
9. SIGN BY OWNER

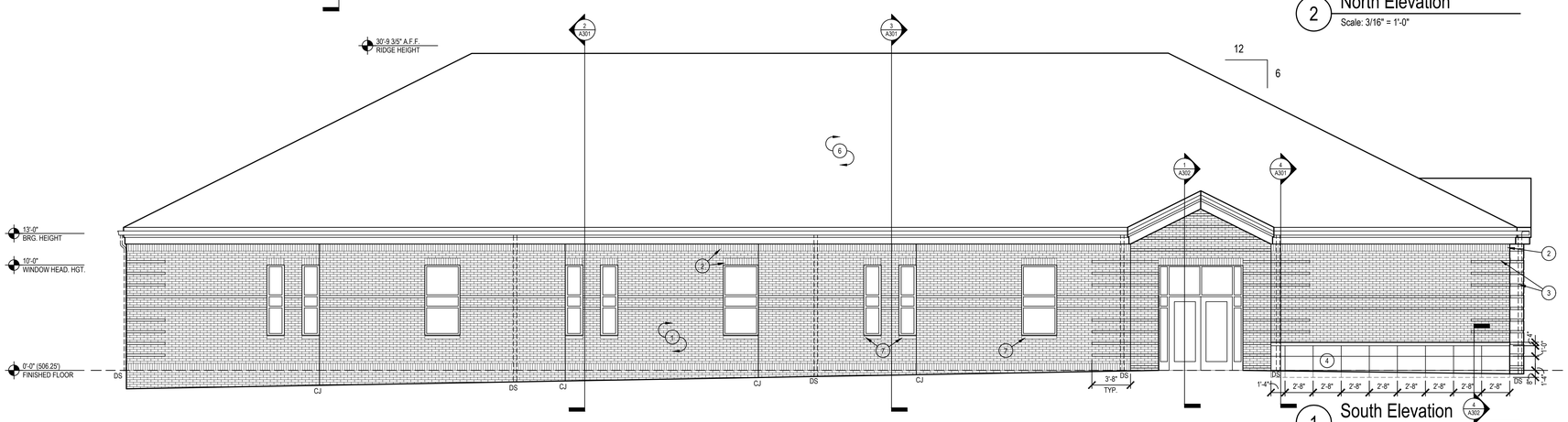


2 North Elevation
Scale: 3/16" = 1'-0"



6 Side Elevation
Scale: 1/2" = 1'-0"

7 Inside Elevation
Scale: 1/2" = 1'-0"



1 South Elevation
Scale: 3/16" = 1'-0"

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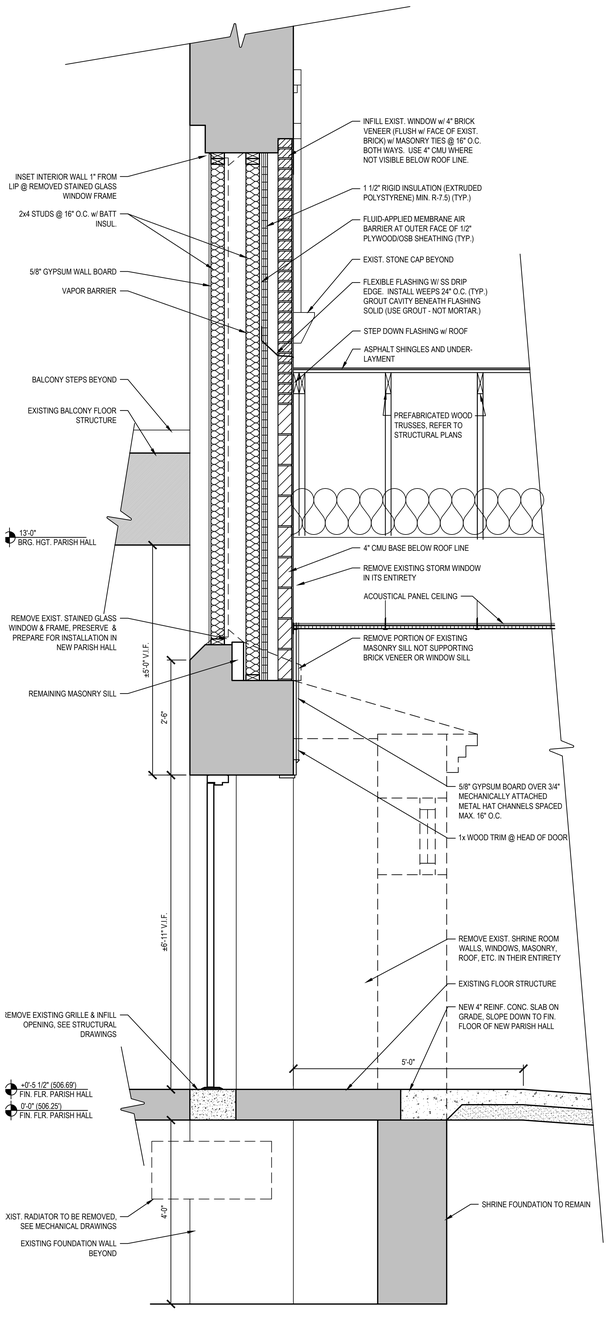
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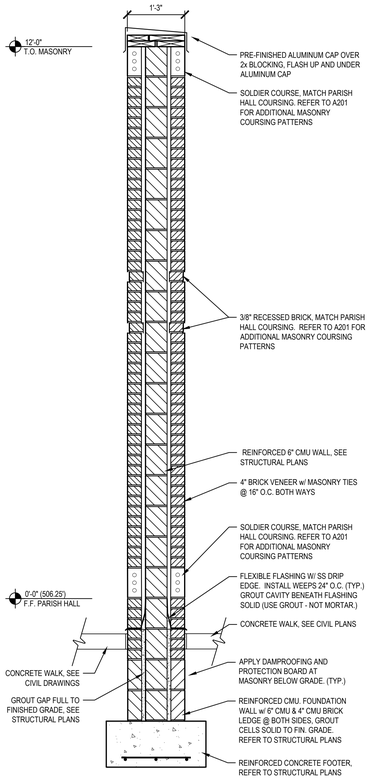
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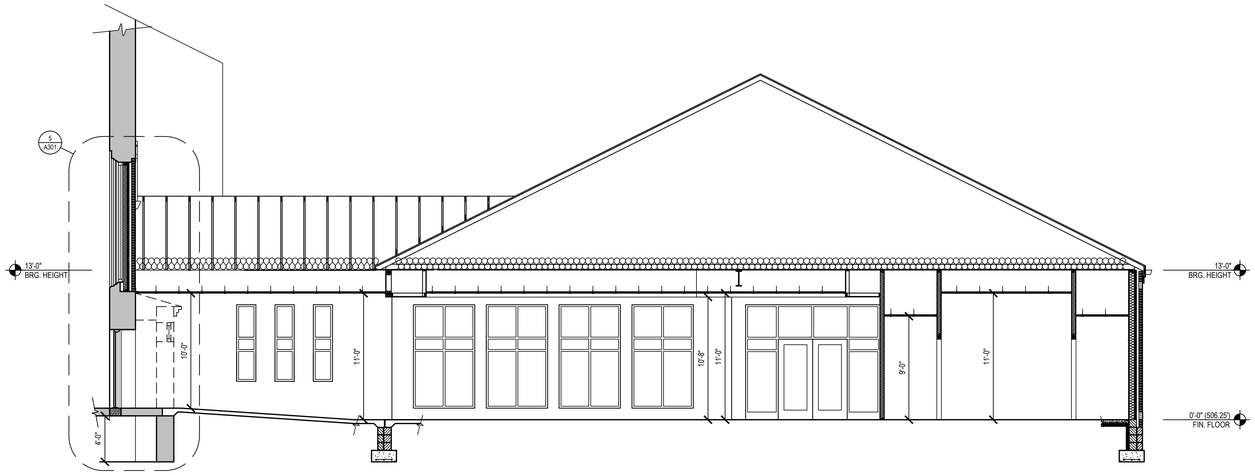
Elevations
A201



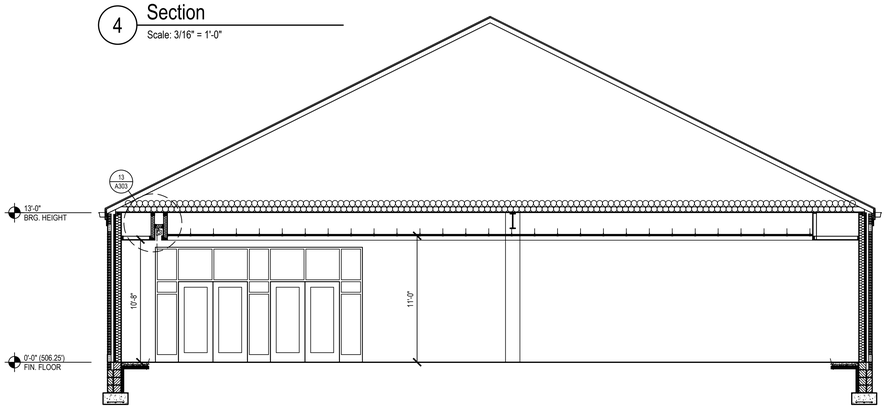
5 Wall Section @ Exist. Building
Scale: 3/4" = 1'-0"



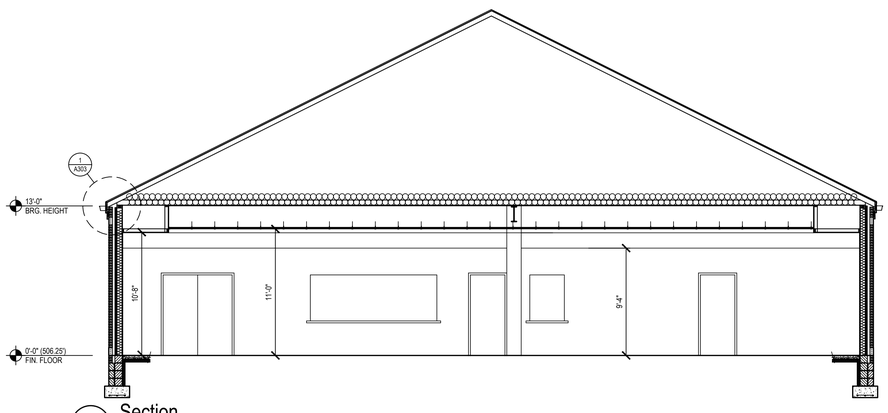
6 Courtyard Wall Section
Scale: 3/4" = 1'-0"



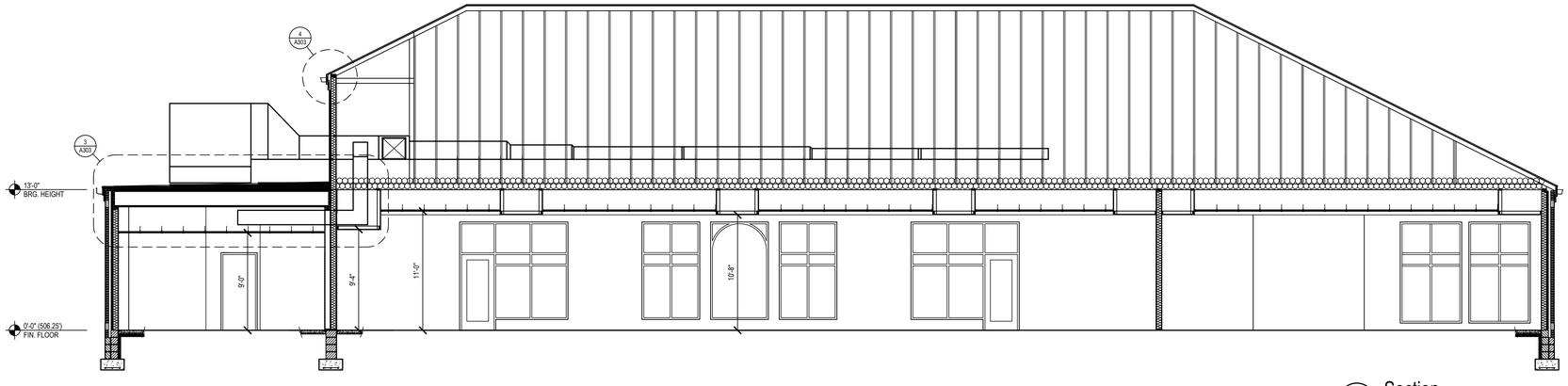
4 Section
Scale: 3/16" = 1'-0"



3 Section
Scale: 3/16" = 1'-0"



2 Section
Scale: 3/16" = 1'-0"



1 Section
Scale: 3/16" = 1'-0"

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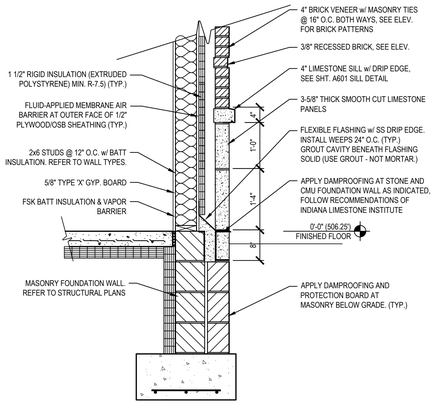
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Project Date September 1, 2026
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New Parish Hall
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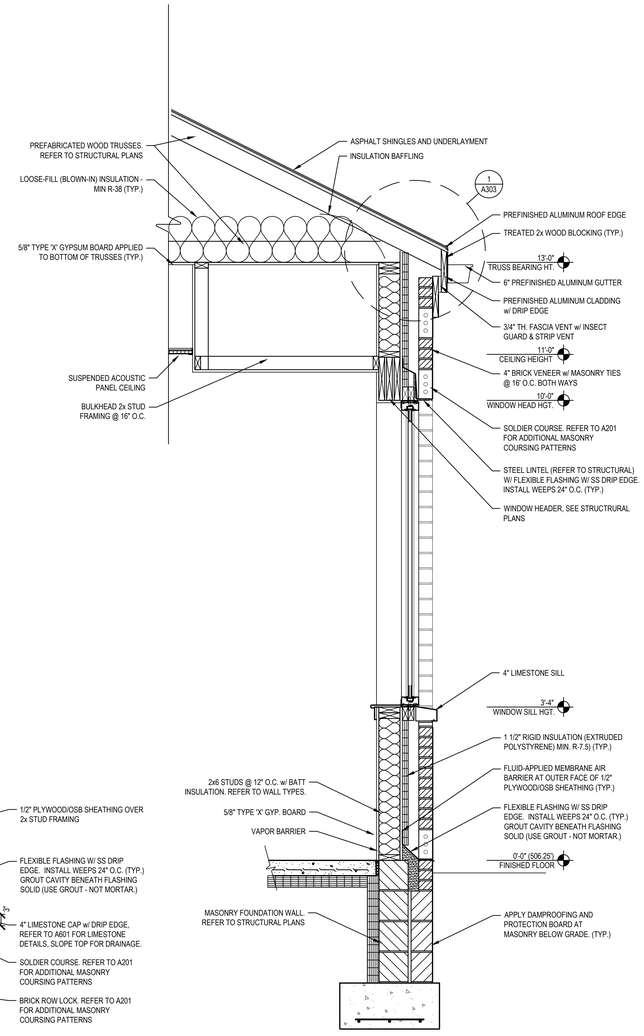
Building Sections

A301



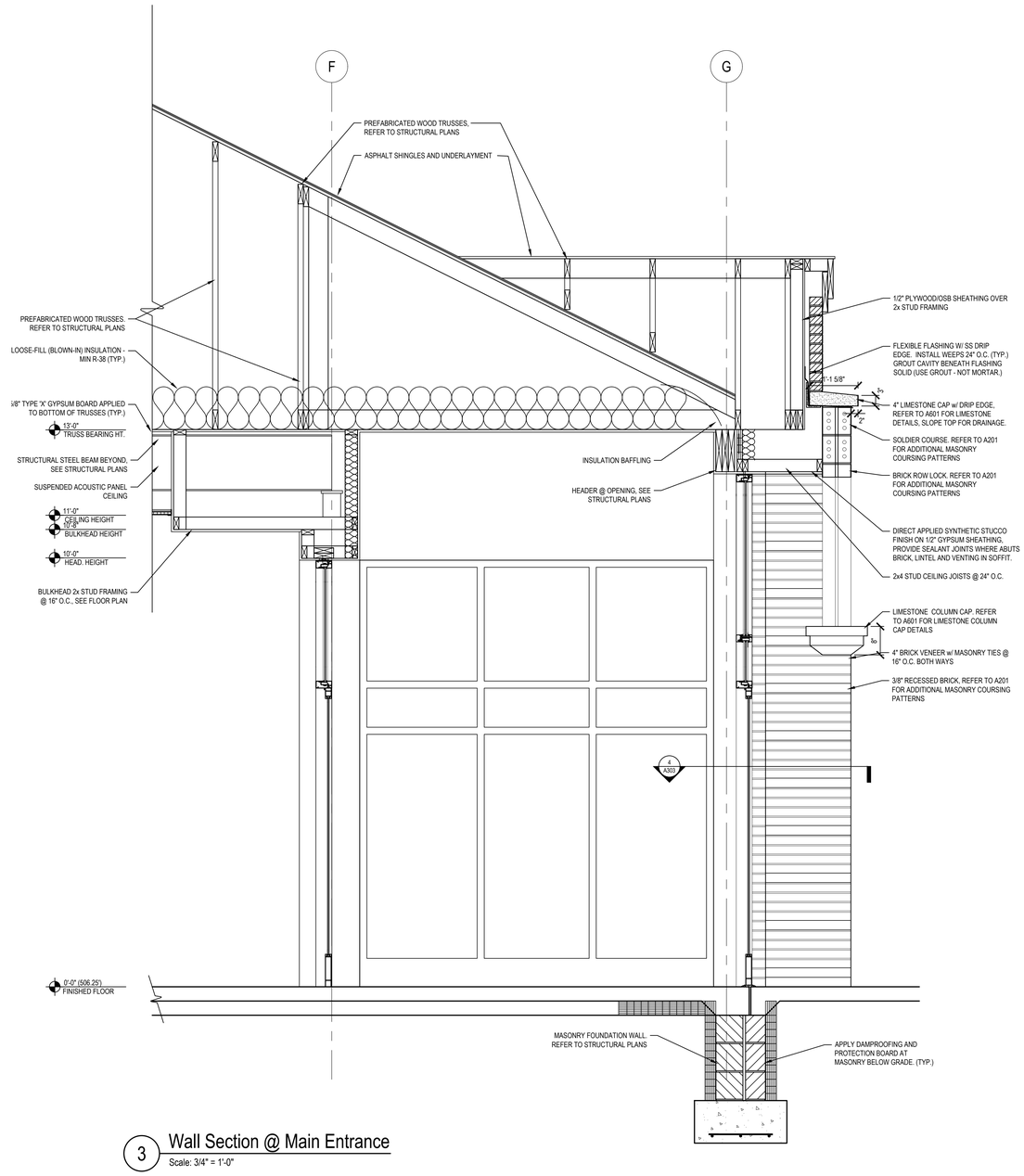
4 Wall Section @ Limestone

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



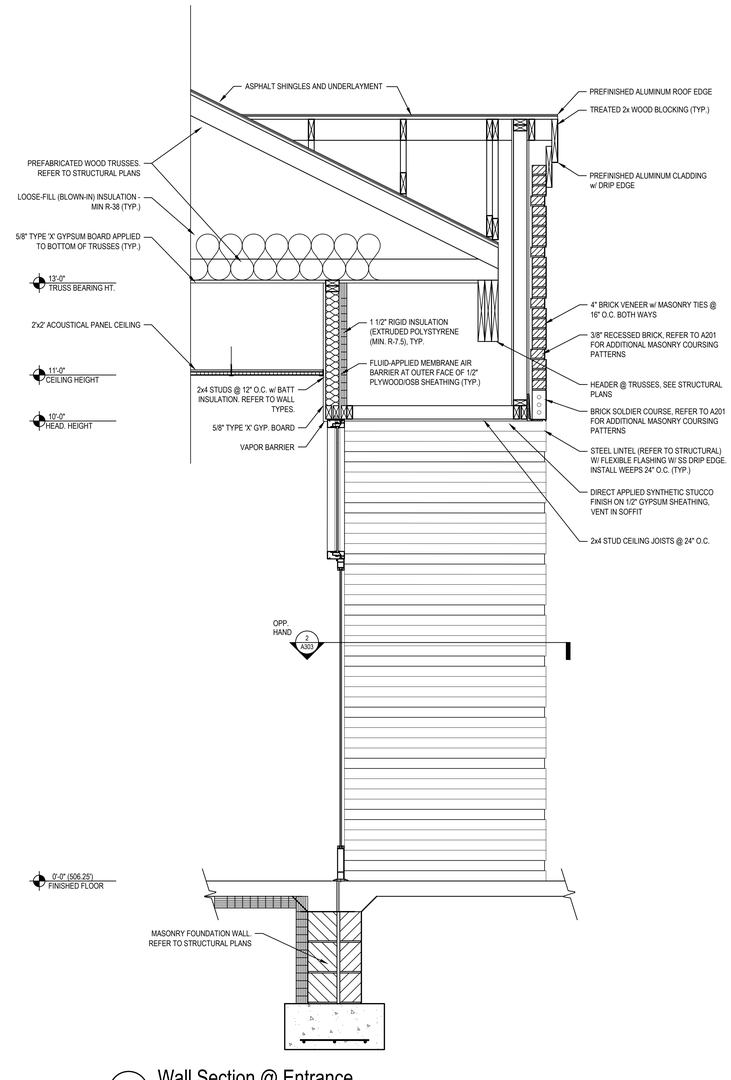
2 Wall Section @ Window

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



3 Wall Section @ Main Entrance

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



1 Wall Section @ Entrance

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

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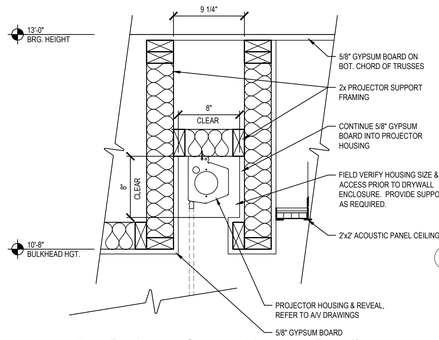
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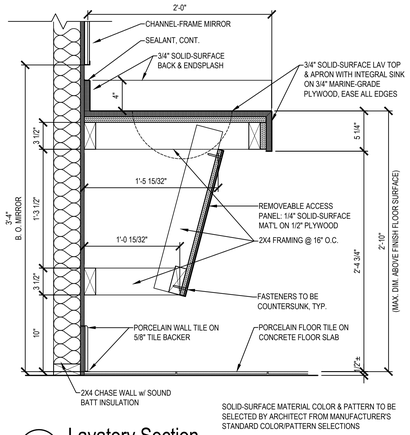
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Wall Sections

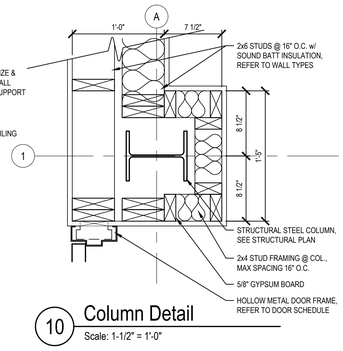
A302



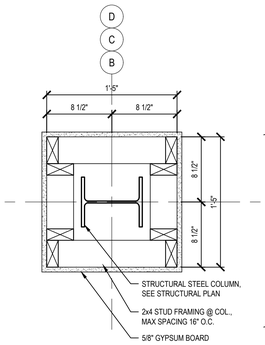
13 Projector Screen Housing Detail
Scale: 1-1/2" = 1'-0"



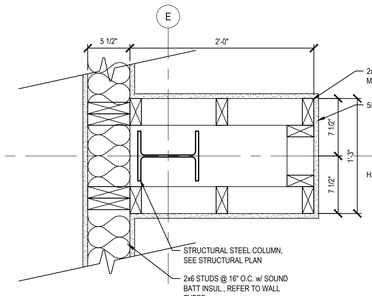
12 Lavatory Section
Scale: 1-1/2" = 1'-0"



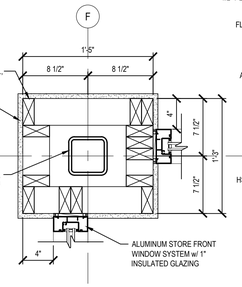
10 Column Detail
Scale: 1-1/2" = 1'-0"



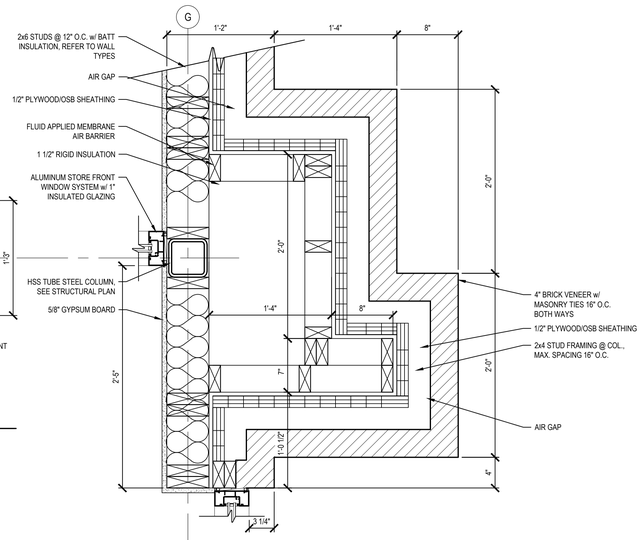
9 Column Detail
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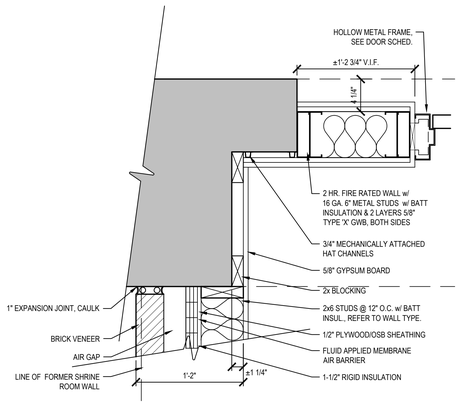
8 Column Detail
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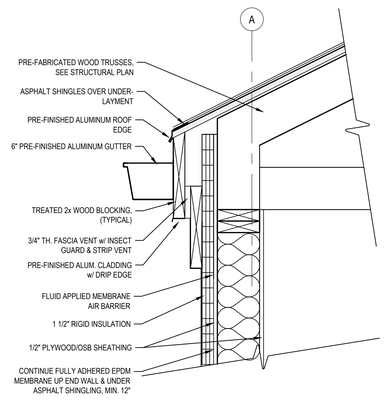
7 Column Detail
Scale: 1-1/2" = 1'-0"



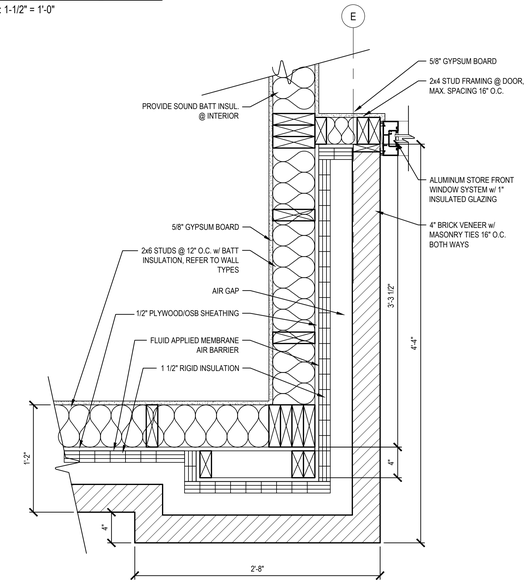
6 Column Framing Detail
Scale: 1-1/2" = 1'-0"



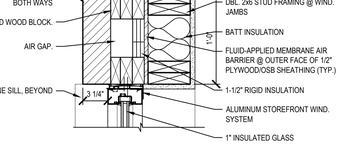
5 Connection Detail
Scale: 1-1/2" = 1'-0"



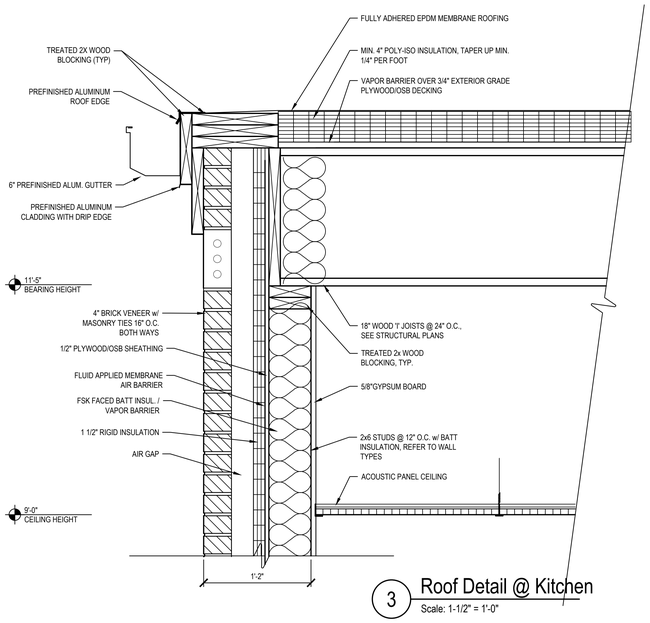
4 Connection Detail
Scale: 1-1/2" = 1'-0"



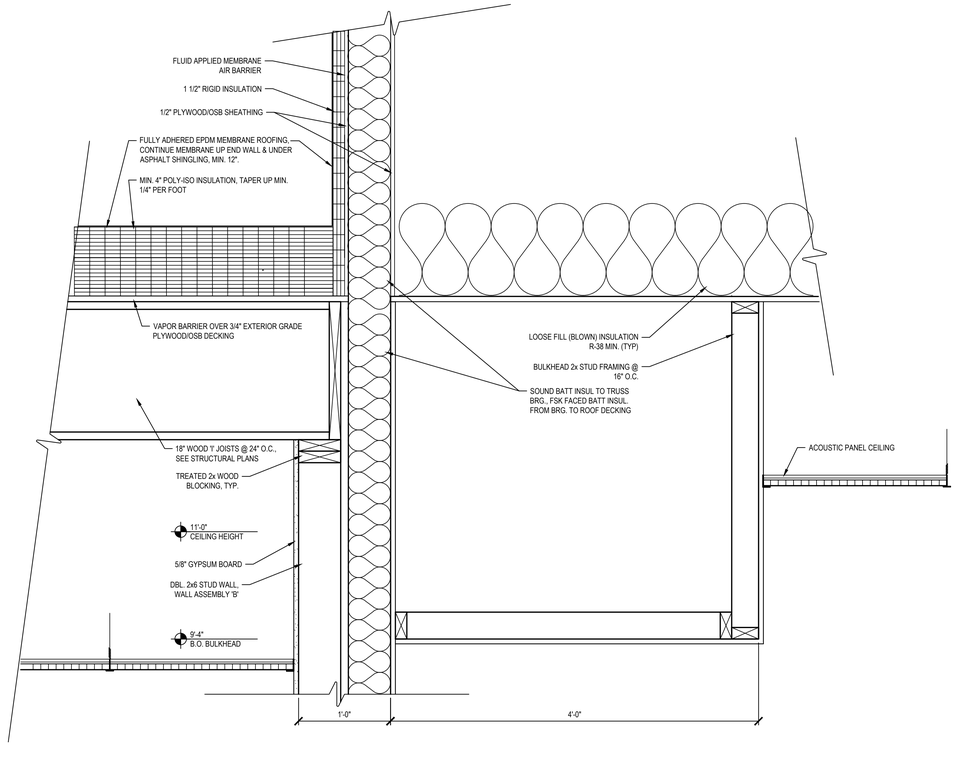
2 Column Framing Detail
Scale: 1-1/2" = 1'-0"

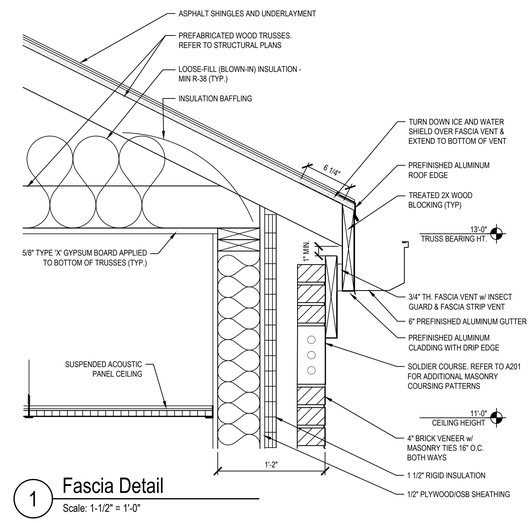


11 Jamb Detail
Scale: 1-1/2" = 1'-0"



3 Roof Detail @ Kitchen
Scale: 1-1/2" = 1'-0"





1 Fascia Detail
Scale: 1-1/2" = 1'-0"

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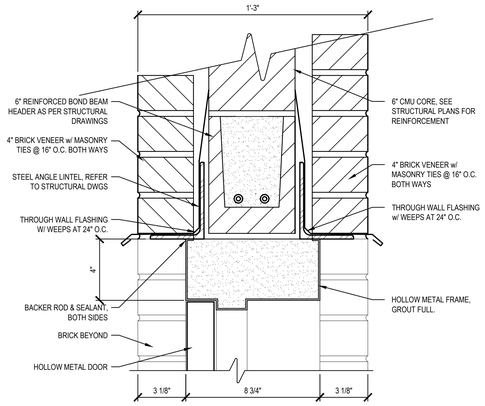
KRISTIN D. STUCKWISCH
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ARCHITECT

Project No. 2024.012
Project Date September 1, 2026
Produced kst
Revision Date

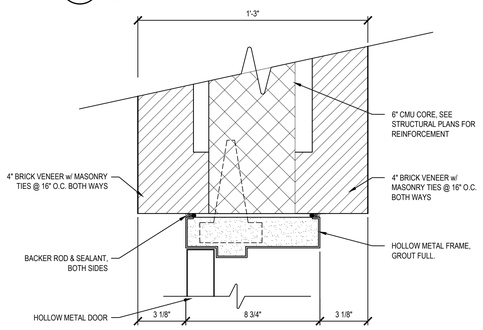
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2024.012 St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

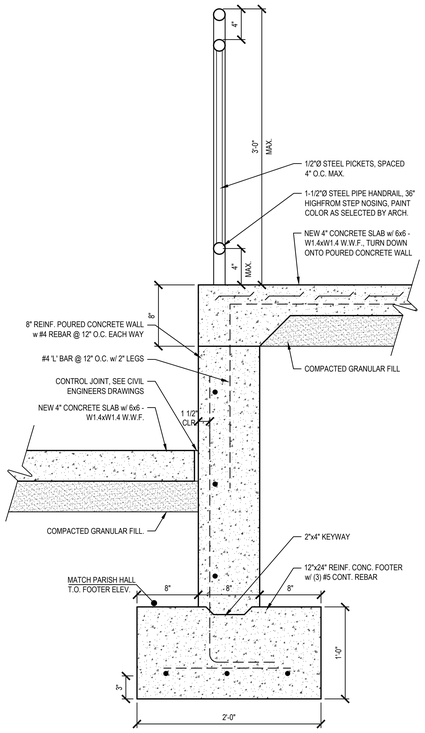
Details
A303



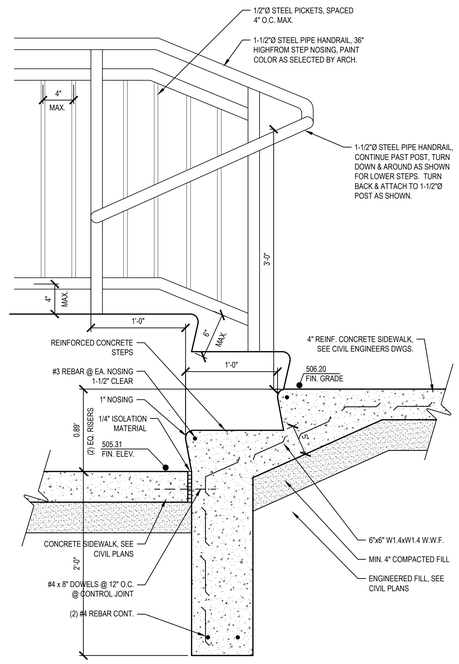
8 **Head Detail**
Scale: 1 1/2" = 1'-0"



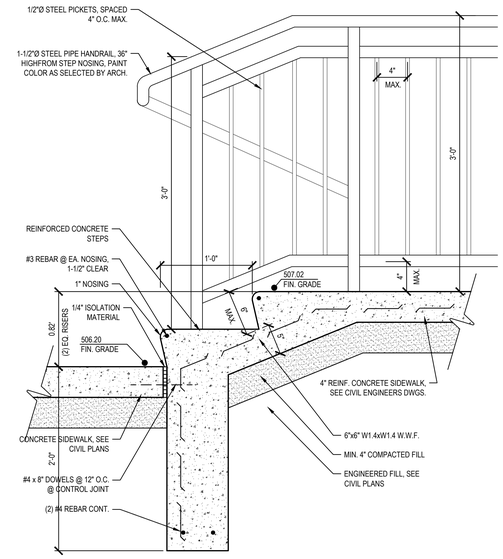
7 **Jamb Detail**
Scale: 1 1/2" = 1'-0"



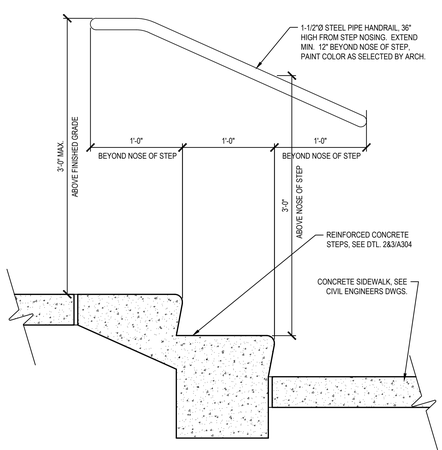
4 **Wall Section**
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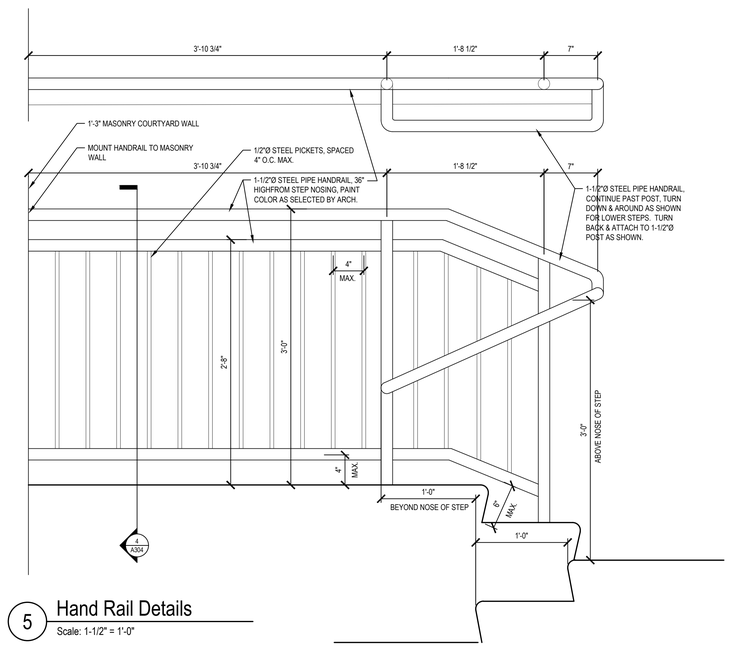
3 **Section @ Steps**
Scale: 1-1/2" = 1'-0"



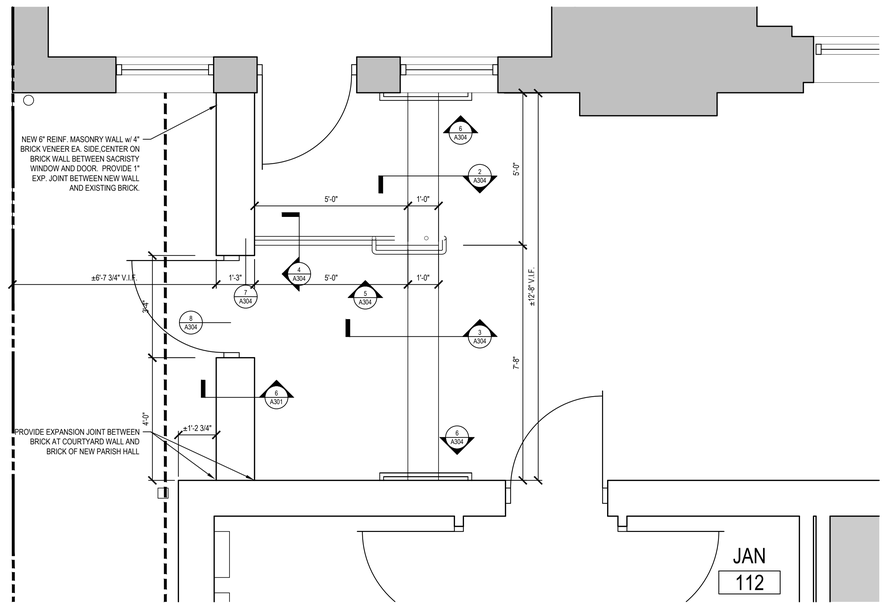
2 **Section @ Steps**
Scale: 1-1/2" = 1'-0"



6 **Hand Rail Details**
Scale: 1-1/2" = 1'-0"



5 **Hand Rail Details**
Scale: 1-1/2" = 1'-0"



1 **Enlarged Stair Plan**
Scale: 1/2" = 1'-0"

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KEVIN D. STUCKWISCH REGISTERED No. AR00920099 STATE OF INDIANA ARCHITECT

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2024.012

Details

A304

DOOR SCHEDULE

DOOR								FRAME			DETAILS					
NO.	LABEL	TYPE	MAT.	GLASS	QTY.	W	H	TYPE	MAT.	GLASS	SILL	JAMB	HEAD	HDWE SET	REMARKS	NO.
100A	---	C	AL	IG/TG	2	3'-0"	7'-0"	F2	AL	IG/TG	19/A502	16/A502	18/A502	12		100A
100B	---	C	WD	TG	2	3'-0"	7'-0"	F5	HM	TG	---	8/A502	8/A502	14		100B
101A	---	C	WD	TG	2	3'-0"	7'-0"	F6	HM	TG	---	6/A502	7/A502	09		101A
101B	---	C	WD	TG	2	3'-0"	7'-0"	F6	HM	TG	---	6/A502	7/A502	11		101B
102A	---	C	AL	IG/TG	2	3'-0"	7'0"	F4	AL	IG/TG	19/A502	13/A502	14/A502	13		102A
103A	---	A	WD	---	1	3'-0"	7'-0"	F1	HM	---	---	4/A502	5/A502	01		103A
104A	---	A	WD	---	1	3'-0"	7'-0"	F1	HM	---	---	4/A502	5/A502	01		104A
105A	---	C	AL	IG/TG	1	3'-0"	7'-0"	F3	AL	IG/TG	19/A502	16/A502	17/A502	06		105A
105B	---	C	AL	IG/TG	1	3'-0"	7'-0"	F3	AL	IG/TG	19/A502	16/A502	17/A502	07		105B
106A	---	D	WD	TG	2	3'-0"	7'-0"	F1	HM	---	---	11/A502	12/A502	02		106A
107A	---	D	WD	TG	1	3'-0"	7'-0"	F1	HM	---	---	11/A502	12/A502	03		107A
107B	---	E	AL	---	1	11'-0"	4'-4"	---	AL	---	1/A502	2/A502	3/A502	15		107B
107C	---	E	AL	---	1	3'-0"	3'-8"	---	AL	---	1/A502	2/A502	3/A502	15		107C
108A	---	D	WD	TG	1	3'-0"	7'-0"	F1	HM	---	---	4/A502	5/A502	03		108A
109A	---	A	WD	---	1	3'-0"	7'-0"	F1	HM	---	---	11/A502	12/A502	04		109A
110A	---	D	HM	IG/TG	1	3'-0"	7'-0"	F8	HM	---	19/A502	20/A502	21/A502	05		110A
111A	---	A	WD	---	1	3'-0"	7'-0"	F1	HM	---	---	4/A502	5/A502	04		111A
112A	---	A	WD	---	1	3'-0"	7'-0"	F1	HM	---	---	4/A502	5/A502	04		112A
113A	B	D	WD	TG	2	3'-0"	6'-8"	F7	HM	---	19/A502	9/A502	10/A502	10	90 MIN. DOOR	113A
114A	---	A	HM	---	1	3'-0"	7'-0"	F8	HM	---	19/A502	7/A304	8/A304	08		114A

DOOR SCHEDULE REMARKS

1	HM FRAMES TO BE SEAM WELDED FLUSH KD FRAMES.

GLAZING KEY

TG	1/4" TEMPERED GLASS
IG	1" TINTED INSULATED GLASS w/ LOW -E COATING

GENERAL DOOR, FRAME, AND HARDWARE NOTES

A. THIS DOOR SCHEDULE IS FURNISHED TO ASSIST THE CONTRACTOR WITH PROVIDING A COMPLETE DOOR, FRAME AND HARDWARE PACKAGE. DO NOT CONSIDER IT AS ENTIRELY INCLUSIVE. CAREFULLY EXAMINE THE DRAWINGS (ESPECIALLY THE FLOOR PLANS) AND THE SPECIFICATIONS TO DETERMINE THE EXTENT OF DOOR AND FRAME QUANTITIES REQUIRED (INCLUDING INTERIOR WINDOW / SIDELIGHT OPENINGS). SHOULD ANY PARTICULAR DOOR, FRAME, OR INTERIOR WINDOW / SIDELIGHT SHOWN IN THE DRAWINGS BE INADVERTENTLY OMITTED FROM THIS SCHEDULE, SUPPLY SAME AS REQUIRED FOR SIMILAR OPENINGS.

B. ALL EXTERIOR DOORS TO RECEIVE ALUMINUM THRESHOLDS, WEATHERSTRIPPING, SEALS AND GASKETS TO ASSURE WEATHER TIGHT SEAL.

C. PROVIDE APPROPRIATE WALL BUMPERS, DOOR STOPS AND/OR OVERHEAD LIMITERS ON DOORS AS REQUIRED TO PROTECT ADJACENT SURFACES AND FINISHES.

D. ALL INTERIOR DOORS TO RECEIVE HINGES PER SPECIFICATIONS.

E. ALL EXTERIOR DOORS TO RECEIVE CONTINUOUS HINGES PER SPECIFICATIONS.

F. ALL DOORS FRAMES TO RECEIVE MUTES, UNLESS NOTED OTHERWISE.

G. THE HINGE SIDE OF ALL INTERIOR DOOR FRAMES SHALL BE LOCATED 4" FROM ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE.

H. LOCATE AND INSTALL SAFETY GLAZING PER STATE AND LOCAL CODES AND ORDINANCES.

I. ALL DOORS ARE 1 3/4" THICK, UNLESS NOTED OTHERWISE.

J. WOOD AND METAL STUDS, FURRING AND SHIMS ARE SHOWN FOR GRAPHIC CLARITY ONLY, AND ARE NOT TO BE CONSIDERED ALL-INCLUSIVE NOR INDICATIVE OF ACTUAL CONSTRUCTION.

K. ALL SOLID CORE WOOD DOORS SHALL BE FACTORY FINISHED. STAIN COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD FINISHES, UNO.

L. ALL FRAME WIDTHS ARE 2" UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE FRAME DEPTH REQUIRED WITH WALL TYPES, CONDITIONS, AND DETAILS.

TOILET ACCESSORY SCHEDULE

QTY	DESCRIPTION	MODEL NUMBER, (BASED ON BOBRICK PRODUCTS)	MOUNTING HEIGHT	REMARKS
1	HORIZONTAL GRAB BAR, 42" LONG	#B-6806 (SATIN FINISH)	CENTERLINE AT 34" A.F.F.	SIDE WALL BAR LOCATED 12" FROM REAR WALL EXTENDING 54" FROM REAR WALL.
2	HORIZONTAL GRAB BAR, 36" LONG	#B-6806 (SATIN FINISH)	CENTERLINE AT 34" A.F.F.	EXTEND 12" FROM CENTERLINE OF WATER CLOSET ON SIDE CLOSEST TO WALL AND 24" ON THE TRANSFER SIDE.
3	VERTICAL GRAB BAR, 18"	#B-6806 (SATIN FINISH)	BOTTOM OF BAR AT 39" A.F.F.	CENTERLINE OF BAR LOCATED 39" FROM REAR WALL.
4	FRAMED MIRROR UNIT, 72" X 36"	#B-290 72" X 36" HIGH	MOUNT BOTTOM OF REFLECTIVE SURFACE AT 40" A.F.F.	CENTERED ABOVE SINK.
5	WALL MOUNTED DIAPER CHANGING STATION	BOBRICK, KB-300	TOP AT 48" A.F.F.	
6	TOILET TISSUE DISPENSER (SURFACE MOUNTED)	PROVIDED BY OWNER, INSTALLED BY CONTRACTOR	TOP OF UNIT TO BE 2" CLEAR MIN. BELOW HORIZONTAL GRAB BAR.	CENTERED BELOW VERTICAL GRAB BAR.
7	PAPER TOWEL DISPENSER	PROVIDED BY OWNER, INSTALLED BY CONTRACTOR	CONFIRM HEIGHT PER ADA.	
8	SOAP DISPENSER	PROVIDED BY OWNER, INSTALLED BY CONTRACTOR	CENTER OF PUSH BUTTON AT 44" A.F.F.	

RESTROOM STANDARDS

ALL RESTROOMS SHALL BE LAID OUT WITH THE GUIDELINES SET FORTH AND IN ACCORDANCE WITH THE CURRENT INDIANA BUILDING CODE - CHAPTER 11 / ICC - ANSI A117.1 - 2009. ANY DISCREPANCIES SHOULD BE REVIEWED WITH ARCHITECT PRIOR TO INSTALLATION OF ACCESSORY.

CONFIRM LOCATION OF ALL TOILET ACCESSORIES WITH ARCHITECT PRIOR TO INSTALLATION.

ROOM FINISH SCHEDULE

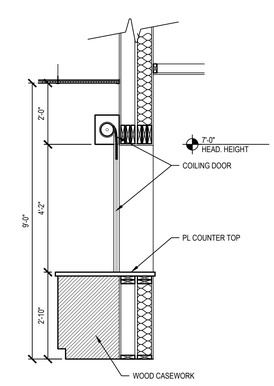
				WALLS						
ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	CEILING	REMARKS	ROOM NO.
100	VESTIBULE	WOC-1	VB-1	P-1	P-1	P-1	P-1	P-3	---	100
101	GATHERING	LVT-1 / LVT-2	VB-1	P-1	P-1	P-1	P-1	APC-1/P-3	---	101
102	CORRIDOR	LVT	VB-1	P-1	P-1	P-1	P-1	APC-1	---	102
103	MEN'S RESTROOM	T-1	WT-1	P-1	P-1 / WT-1	WT-1	P-1	APC-3	REFER TO PLAN FOR EXACT LOCATIONS OF WALL TILE	103
18	WOMEN'S RESTROOM	T-1	WT-1	P-1 / WT-1	P-1	WT-1	P-1	APC-3	REFER TO PLAN FOR EXACT LOCATIONS OF WALL TILE	104
105	PARISH HALL	LVT-1 / LVT-2	VB-1	P-1	P-1	P-1	P-1	APC-1/P-3	---	105
106	T/C STORAGE	LVT-2	VB-1	P-1	P-1	P-1	P-1	APC-3	---	106
107	KITCHEN	RES-1	RES-1	P-1	P-1	P-1	P-1	APC-2	---	107
108	PANTRY	RES-1	RES-1	P-1	P-1	P-1	P-1	APC-2	---	108
109	STORAGE -A/V	LVT-2	VB-1	P-1	P-1	P-1	P-1	APC-1	---	109
110	CORRIDOR	RES-1	RES-1	P-1	---	P-1	P-1	APC-2	---	110
111	MECHANICAL	SEALED CONC.	VB-1	P-1	P-1	P-1	P-1	---	---	111
112	JANITOR'S CLOSET	RES-1	RES-1	P-1	P-1	P-1	P-1	APC-2	---	112
113	CORRIDOR	LVT-1 / LVT-2	VB-1	P-1	---	P-1	P-1	APC-1	---	113

ROOM FINISH SCHEDULE REMARKS

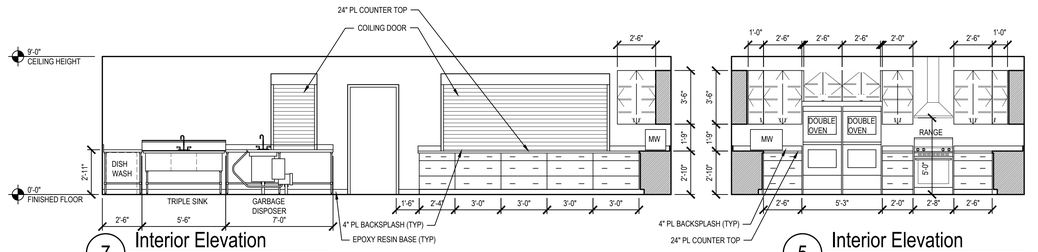
1	ALL WINDOW SILLS TO BE SS-1.
2	PAINT HM DOOR FRAMES P-2.

ROOM FINISH MATERIAL LIST

CODE	MATERIAL DESCRIPTION	MANUFACTURER	STYLE / PATTERN	COLOR
P-1	WALL PAINT	SHERWIN WILLIAMS	---	SW 6085 SIMPLIFY BEIGE
P-2	DOOR FRAME PAINT	SHERWIN WILLIAMS	---	SW 7026 GRIFFIN
P-3	CEILING PAINT	SHERWIN WILLIAMS	---	SW 7102 WHITE FLOUR
WT-1	CERAMIC TILE	FLORIDA TILE	WESTMONT 12"x24"	QUARRY
T-1	CERAMIC TILE	FLORIDA TILE	WESTMONT 12"x12"	QUARRY
WOC-1	WALK-OFF CARPET	INTERFACE	STEP REPEAT SR799	104916 SABLE
LVT -1	LUXURY VINYL TILE	TARKETT	PCMB MINERAL BASALT 18"x18"	4642 FELDSPAR
LVT-2	LUXURY VINYL TILE	TARKETT	PCSN CASTLEROCK SANDSTONE 12"x36"	4654 SUNRISE SANDS
RES-1	RESINOUS EPOXY FLOORING	GENERAL POLYMERS	FASTOP SU-1	SAHARA 341
SC	SEALED CONCRETE (FLOOR)			
VB-1	VINYL WALL BASE	JOHNSONITE	4" COVE BASE	283 TOAST
SS-1	SOLID SURFACE	CORIAN		MATTERHORN
PL-1	PLASTIC LAMINATE	WILSONART		TO BE DETERMINED
APC-1	ACOUSTIC PANEL CEILING, TYPE 1	ARMSTRONG	OPTIMA, 24 x 24 x 1, TEGULAR EDGE	WHITE
APC-2	ACOUSTIC PANEL CEILING, TYPE 2	ARMSTRONG	CLEAN ROOM FL, 24 x 24 x 3/4	WHITE
APC-3	ACOUSTIC PANEL CEILING, TYPE 3	ARMSTRONG	CIRRUS, 24 x 24 x 5/8, TEGULAR EDGE	WHITE

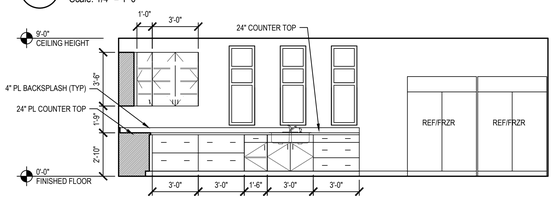


8 Section @ Coiling Door
Scale: 1/2" = 1'-0"

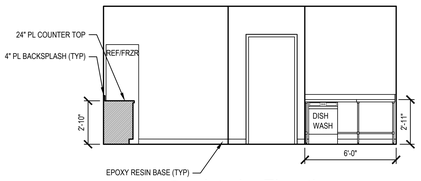


7 Interior Elevation
Scale: 1/4" = 1'-0"

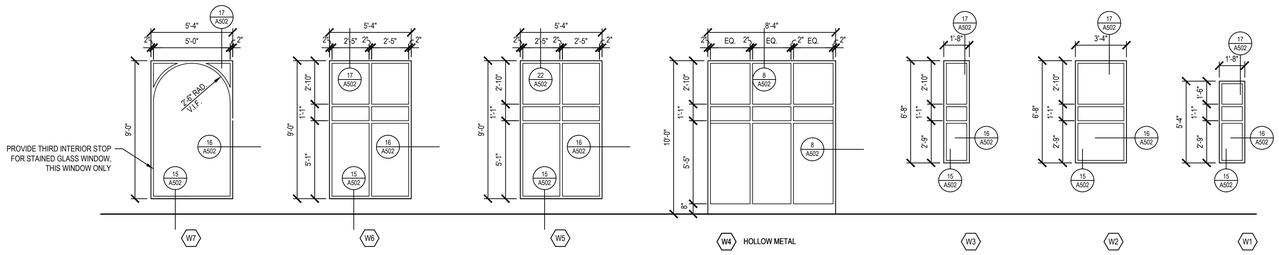
5 Interior Elevation
Scale: 1/4" = 1'-0"



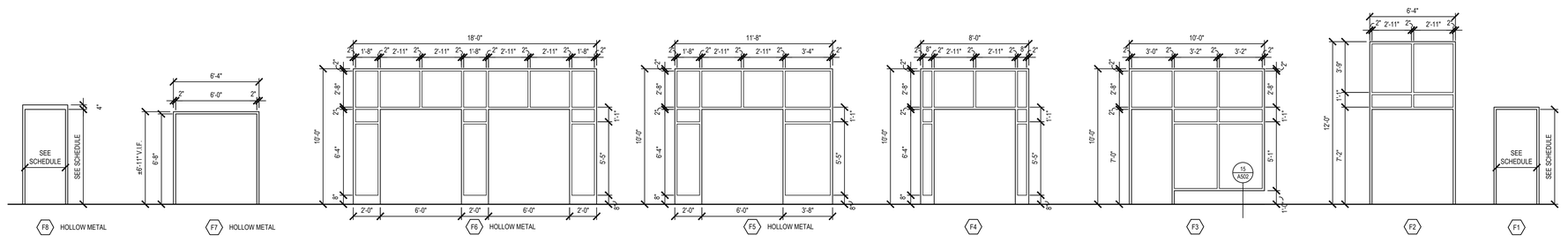
6 Interior Elevation
Scale: 1/4" = 1'-0"



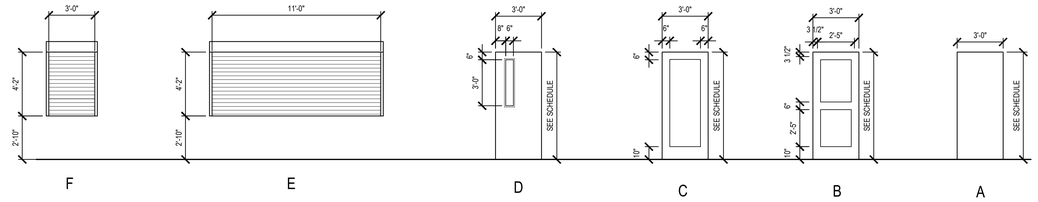
4 Interior Elevation
Scale: 1/4" = 1'-0"



3 Window Elevations
Scale: 1/4" = 1'-0"



2 Frame Elevations
Scale: 1/4" = 1'-0"



1 Door Type Elevations
Scale: 1/4" = 1'-0"

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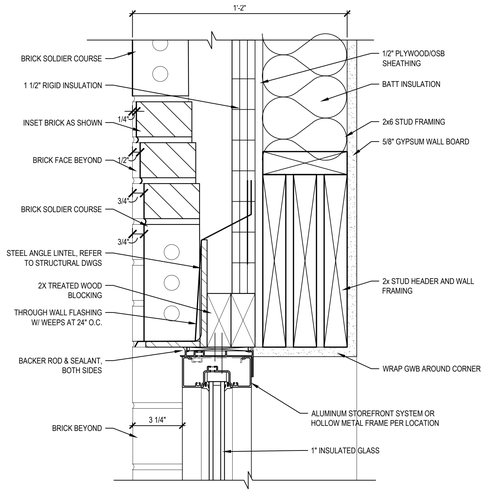
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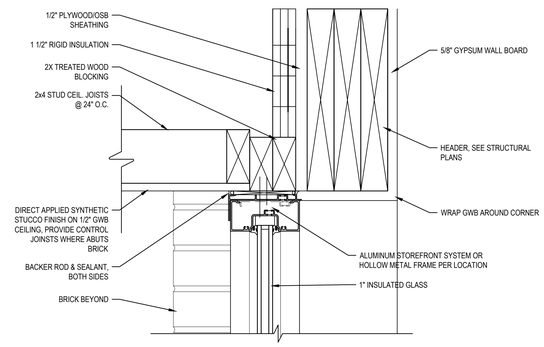
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Door Schedule & Frame Elevations

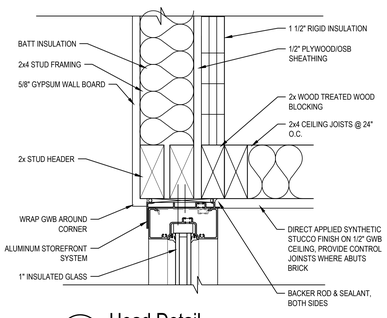
A501



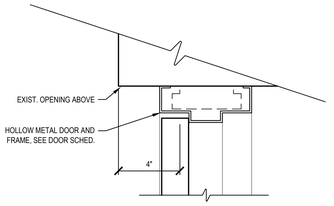
22 **Head Detail**
Scale: 3" = 1'-0"



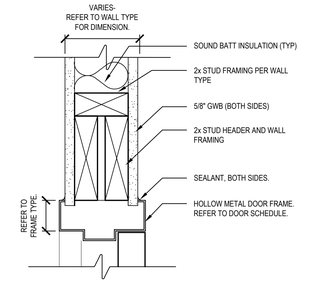
18 **Head Detail**
Scale: 3" = 1'-0"



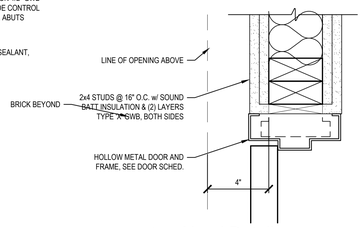
14 **Head Detail**
Scale: 3" = 1'-0"



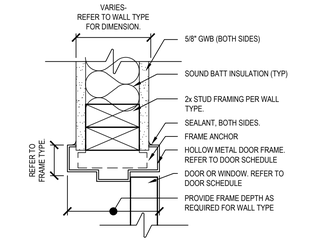
10 **Head Detail**
Scale: 3" = 1'-0"



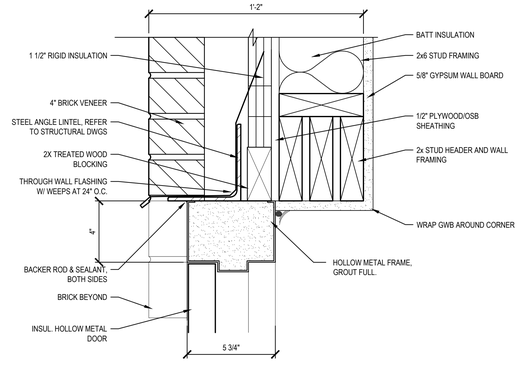
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Scale: 3" = 1'-0"



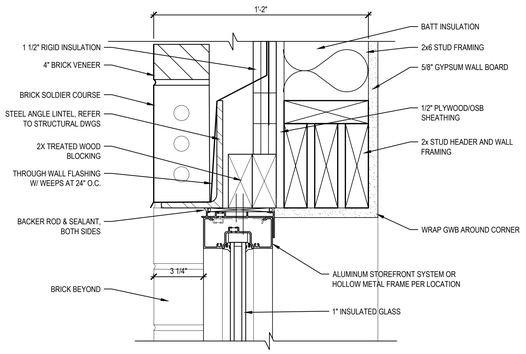
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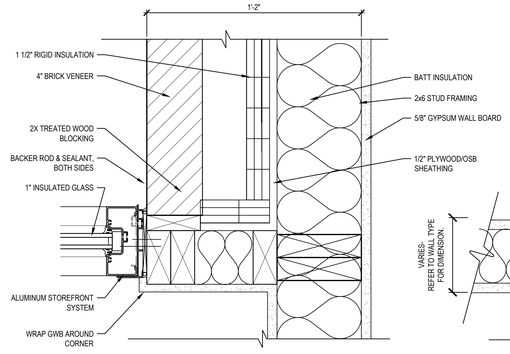
4 **Jamb Detail**
Scale: 3" = 1'-0"



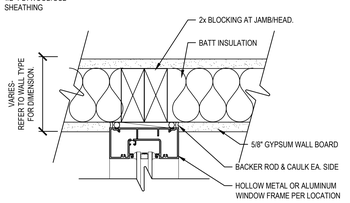
21 **Head Detail**
Scale: 3" = 1'-0"



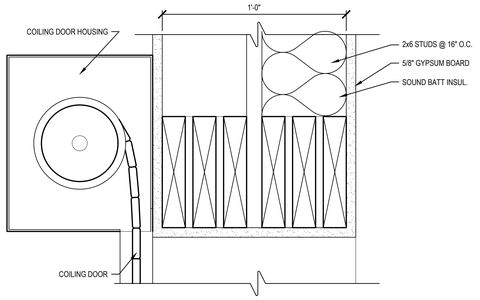
17 **Head Detail**
Scale: 3" = 1'-0"



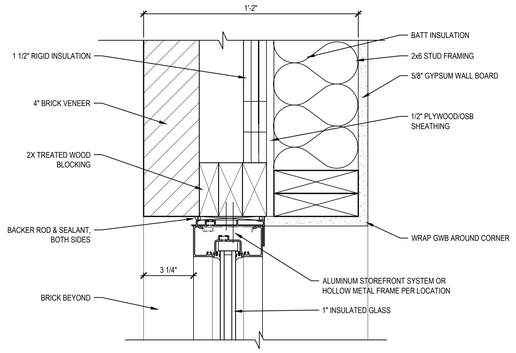
13 **Jamb Detail**
Scale: 3" = 1'-0"



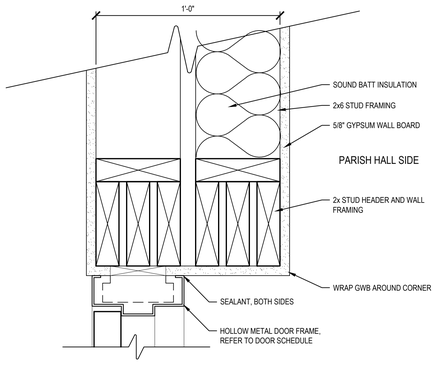
8 **Head/Jamb Detail**
Scale: 3" = 1'-0"



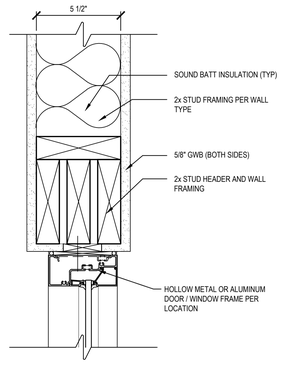
3 **Rolling Counter Door Head Detail**
Scale: 3" = 1'-0"



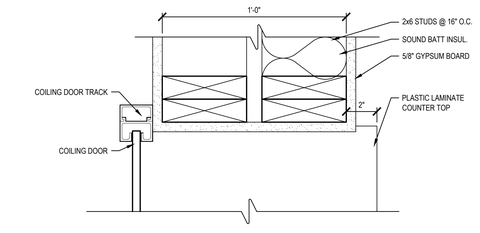
16 **Jamb Detail**
Scale: 3" = 1'-0"



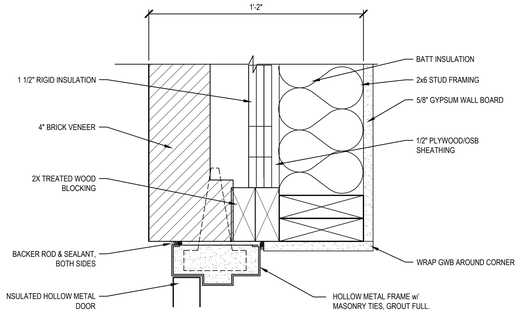
12 **Head Detail**
Scale: 3" = 1'-0"



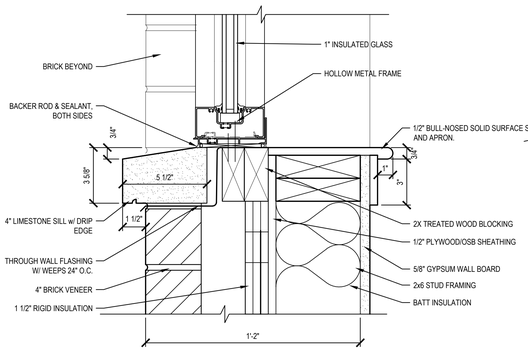
7 **Head Detail**
Scale: 3" = 1'-0"



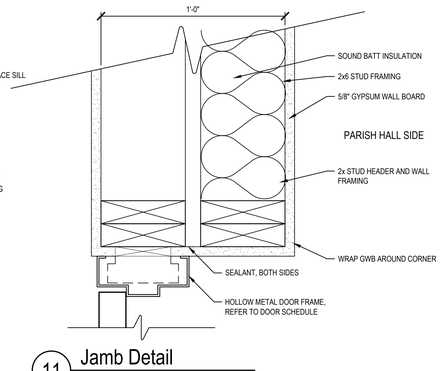
2 **Rolling Counter Door Jamb Detail**
Scale: 3" = 1'-0"



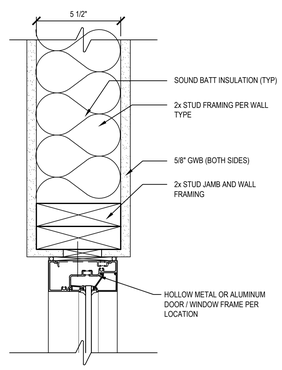
20 **Jamb Detail**
Scale: 3" = 1'-0"



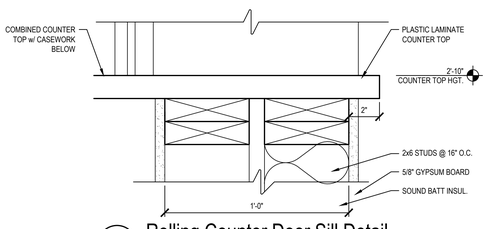
15 **Sill Detail**
Scale: 3" = 1'-0"



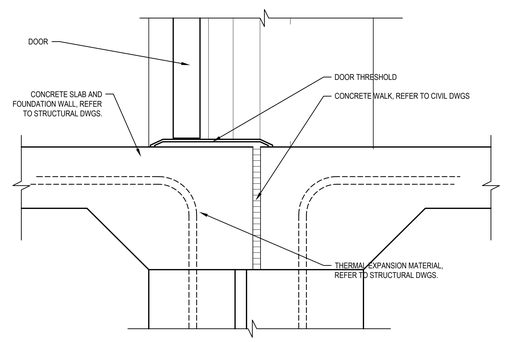
11 **Jamb Detail**
Scale: 3" = 1'-0"



6 **Jamb Detail**
Scale: 3" = 1'-0"



1 **Rolling Counter Door Sill Detail**
Scale: 3" = 1'-0"



19 **Threshold Detail**
Scale: 3" = 1'-0"

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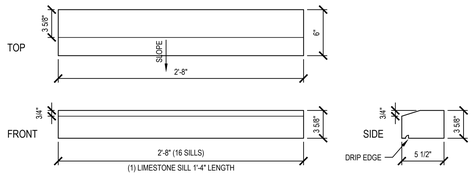
Project No. 2024.014
Project Date September 1, 2026
Produced kst
Revision Date

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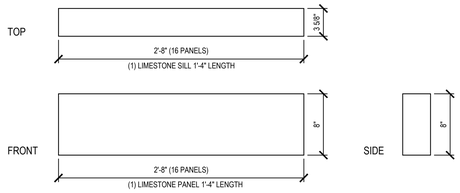
2024.014 St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

Door & Window Details

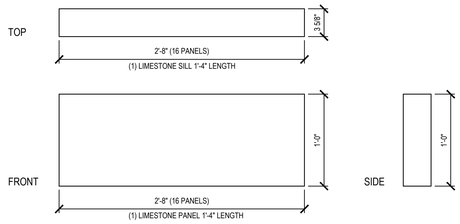
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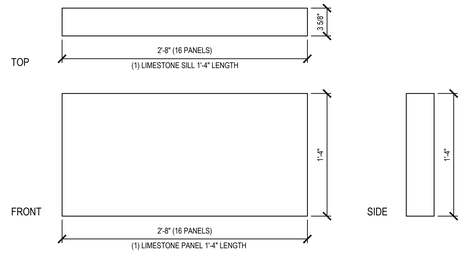
5 Limestone Sill @ Limestone Panels (17)
Scale: 1-1/2" = 1'-0"



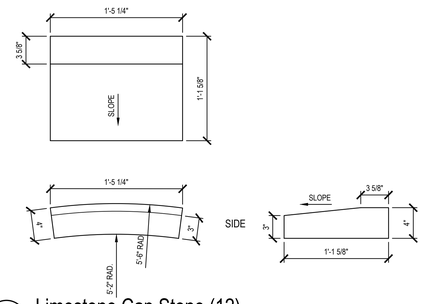
6A 8" Tall Smooth Limestone Panels (17)
Scale: 1-1/2" = 1'-0"



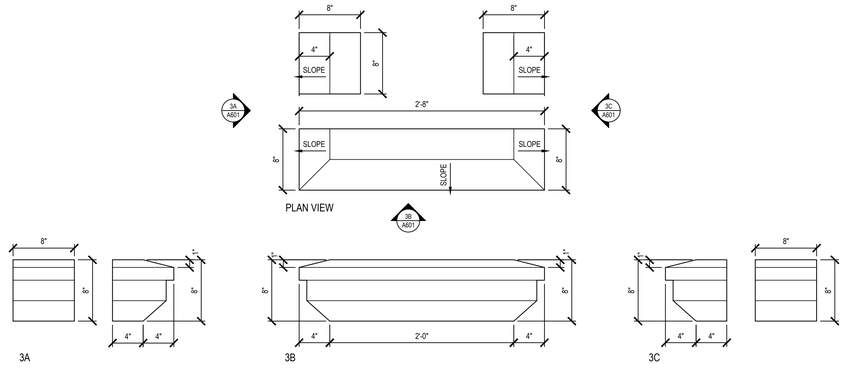
6B 12" Tall Smooth Limestone Panels (17)
Scale: 1-1/2" = 1'-0"



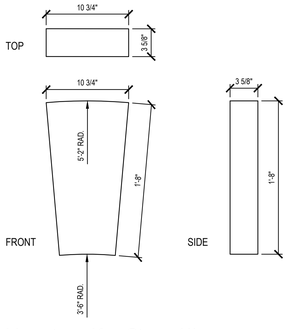
6C 16" Tall Smooth Limestone Panels (17)
Scale: 1-1/2" = 1'-0"



4 Limestone Cap Stone (12)
Scale: 1-1/2" = 1'-0"

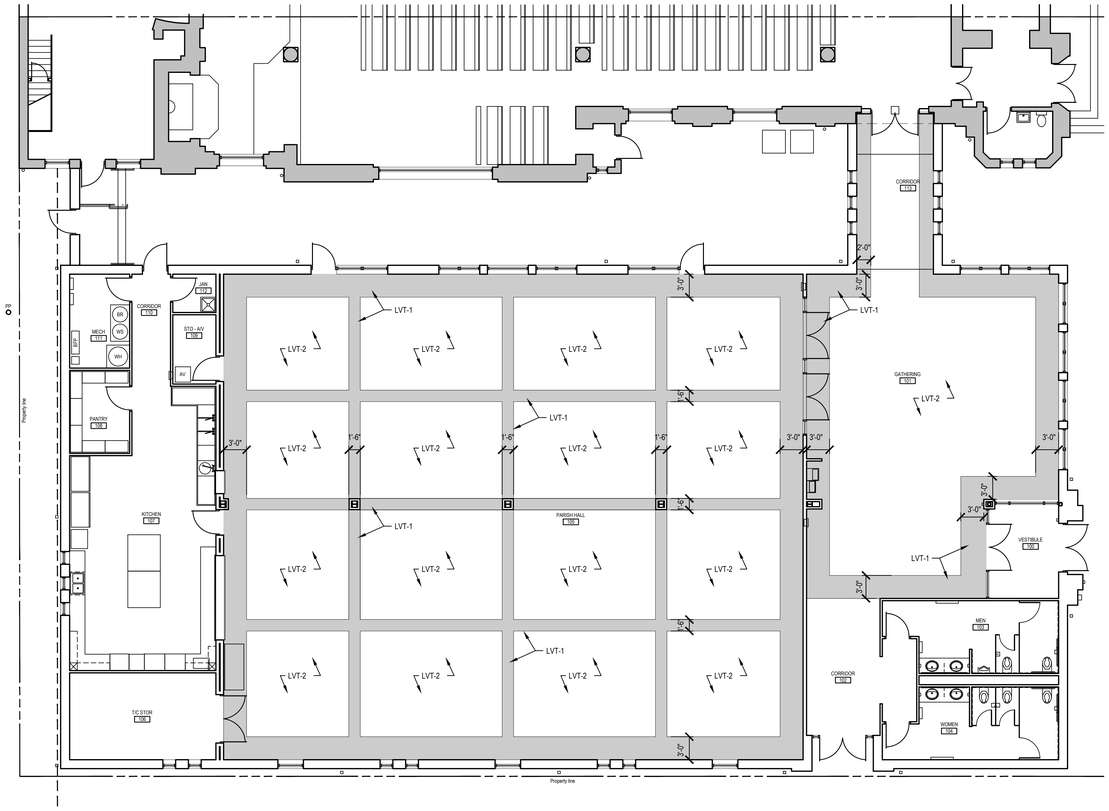


3 Limestone Column Cap (2)
Scale: 1-1/2" = 1'-0"



2 Limestone Key Stone (1)
Scale: 1-1/2" = 1'-0"

LVT - 1: TARKETT PCMB MINERAL BASALT 18"x18", 4642 FELDSPAR
LVT - 2: TARKETT PCSN CASTLEROCK SANDSTONE 12"x36", 4654 SUNRISE SANDS



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

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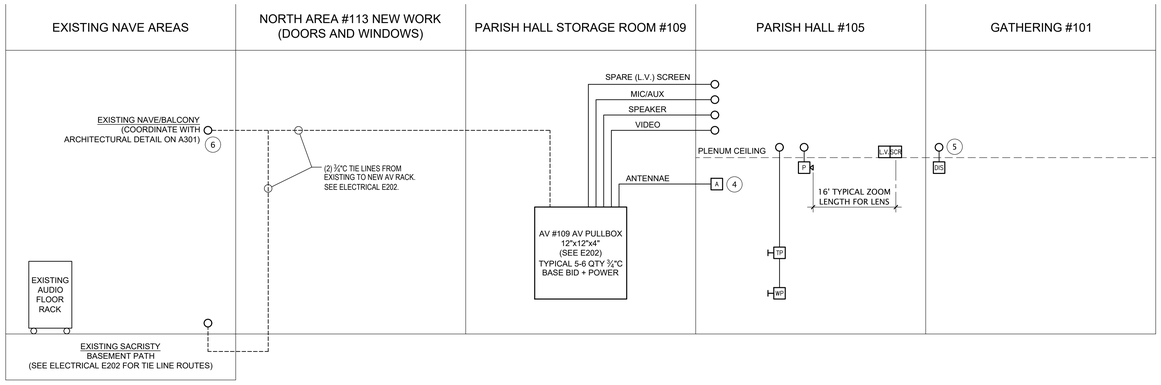
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Floor Finish Plan

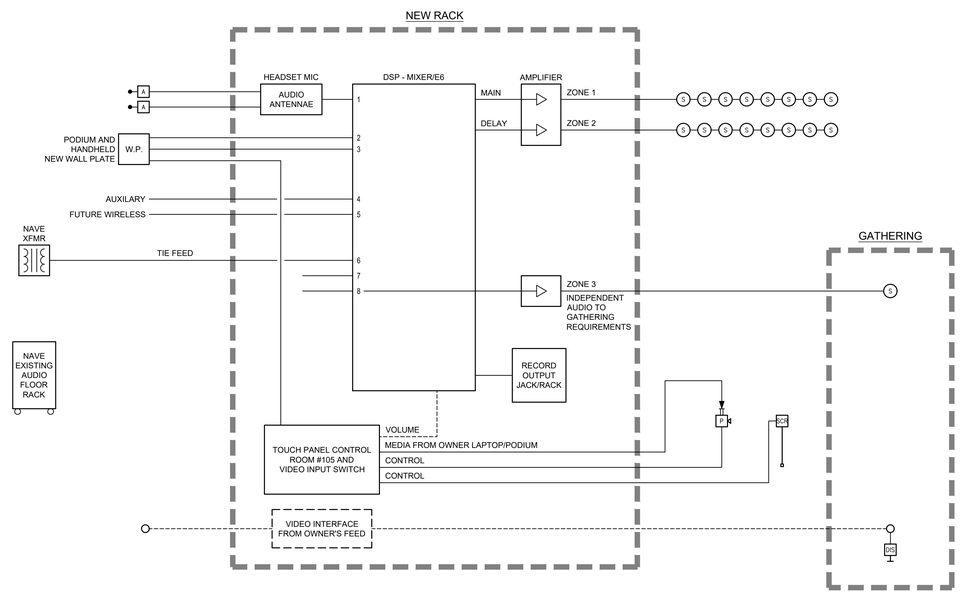
A601

(1)(3) SYMBOL LEGEND - AV SYSTEMS

SYMBOL	DEVICE/DESCRIPTION	DIV 26 BOX BY E.C.	DIV 26 BOX MOUNTING BY E.C.	PLATE	AC POWER	AV CONDUIT BY ELECTRICAL CONTRACTOR (BASE BID)	NOTES
H AP	AV WALL PLATE	STANDARD 3-GANG BOX (TYPICAL)	FLUSH IN WALL AT OUTLET HEIGHT	AV PLATE - METAL	ADJACENT	STUB FOR MIC, MEDIA AND AUX. LINE LEVEL TO MAIN RACK	QUANTITY PER PLANS AT OWNER'S PODIUM - NORTH WALL
S	CEILING SPEAKER	COORDINATE BACK BOX WITH A.C.T.	BY AV CONTRACTOR / A.C.T.	-	-	OPEN PLENUM CABLE ALLOWED	SEE AV AND SPECS. VERIFY MOUNTING CONDITION FOR A.C.T. PLACE SYMMETRICALLY IN A.C.T.
H TP	WALL MOUNT CONTROL	STANDARD 1-GANG BOX	FLUSH IN WALL AT SWITCH HEIGHT	CONTROL T.P. - DIV. 27	-	1 QUANTITY ¾"C. STUB INTO OPEN AREA ABOVE CEILING	VERIFY PLATE WITH AV
R	MAIN AV RACK / HEADEND (WALL MOUNTED)	AC TERMINATION BY EC AT NEW RACK BACK PAN OR INSIDE OF RACK. VERIFY GROUND POINT FOR DEDICATED CIRCUIT BREAKER ON NEW AC PANEL WITH NO OTHER MOTORS OR SHARED GROUNDS.	COORDINATE WITH JUNCTION BOXES / GUTTER BOXES, ELECTRICAL E202 (4)	-	AC QUAD ADJACENT	COORDINATE CONDUIT TO JUNCTION BOXES. COORDINATE NEW AV STUBS FOR RACK PULLBOX/BACKBOX AS REQUIRED WITH EC. RACK IS SPECIFIED AS WALL MOUNTED HEIGHT WITH AC SAME.	COORDINATE CONDUIT ENTRANCES AND BACKPAN BOX BY DIV. 27. BACKPANS MAY REPLACE DIV. 26 12" PULL BOX.
	DATA PLATE (BY OTHERS)	STANDARD 1-GANG BOX (BY OTHERS)	OUTLET HEIGHT, U.N.O.	DATA PLATE (BY OTHERS U.O.N.)	-	¾"C STUB UP FOR DATA LINES. FUTURE DATA DROPS ARE AT RACK, PROJECTOR, AND AV WALL PLATE.	DATA LINE TO AV RACK BY OTHERS.
A	WIRELESS MIC ANTENNAE ON NEW WALL, AT CEILING JUNCTURE. SPREAD APART MIN. 4-6 FEET.	STANDARD 2-GANG BOX >80" A.F.F.	FLUSH/WALL-CEILING. COORDINATE ON SITE WITH AV CONTRACTOR.	2-GANG BNC OR AS REQUIRED			MAINTAIN SIGNAL SEPERATION AND DO NOT COMBINE OR SHARE CONDUIT BETWEEN MIC, SPEAKER, DATA, OR VIDEO LINES
P	VIDEO PROJECTOR	STANDARD 2-GANG BOX - CEILING OUTLET CENTER LINE OF ROOM	AT CEILING MOUNT LOCATION 16' FROM SCREEN	BLANK PLATE WITH GROMMET AS REQUIRED	AC DUPLEX AT MOUNT LOCATION	1 QUANTITY FOR VIDEO LINES TO MAIN RACK	VERIFY MOUNT REQUIREMENT AND DATA DROP REQUIRED AT PROJECTOR. VERIFY THROW DISTANCE FOR MODEL, LENS, AND SCREEN SIZE
SCR	SCREEN WITH REMOTE	STANDARD 1-GANG BOX - L.V. TO RACK CENTER IN ROOM	MOUNT LOCATION AT SOFFIT WITHIN. SEE ARCHITECTURAL PLANS.		AC DUPLEX AT SOFFIT MOUNT LOCATION (INSIDE)	TIE REMOTE CONTROL TO AV OR RACK FOR TOUCHPANEL REMOTE	SEE ARCHITECTURAL FOR SCREEN BOX. SHIP BOX WITHOUT SCREEN AT ROUGH-IN DATES.
DIS	VIDEO DISPLAY	POWER AND CEILING BOX/PLATE	MOUNT LOCATION AT GYPSUM BOARD CEILING	DIV. 26	AC DUPLEX AT CEILING	¾"C TO CEILING AT 3' CEILING AREA ADJACENT TO GLASS WALL.	DISPLAY IS DIV. 27. MOUNT POWER BOX AND BLOCKING FOR 50-55" VIDEO DISPLAY AT CEILING/GLASS WALL JUNCTURE. SUSPEND NEW SHORT MOUNT ON SWIVEL TIGHT TO CEILING.



SIMPLIFIED AV SYSTEM RISER - DIV. 26 E.C. BASE BID (2)(3)



AV SYSTEM RISER

Scale: not to scale

RISER NOTES:

1. PROVIDE AUXILIARY LINE LEVEL AUDIO SPLIT AT EXISTING RACK ¼" OUTPUT FROM SHURE #810 MIXER. PROVIDE NEW TERMINATION WITH RDL OR JENSEN EQUAL , 1:2 ISOLATION TRANSFORMER. ADJUST LEVELS FOR EXISTING LEVEL AND NEW FEED TO NETWORK. COORDINATE CONDUIT STUB WITH DIV. 26 PER A100 RISER IN BASE BID.
2. COORDINATE CABLE TYPE WITH OWNER'S EXISTING VIDEO DISTRIBUTION OUTPUT. PROVIDE CABLE AND LABOR TO FIELD VERIFY AND TIE TO NEW VIDEO DISPLAY VIA NEW RACK. PROVIDE $500 INTERFACE ALLOWANCE IN AV BID FOR COMPATIBLE TIE-IN, SUCH AS BALUN OR SIMPLE AMPLIFIER.
3. PROGRAM D.S.P. (DIGITAL PROCESSOR) FOR ALL INPUT TO INCLUDE SOFTWARE HIGH PASS FILTER ACTIVE (80 Hz); P.E.Q.; AND INDIVIDUAL INPUT VOLUME LEVEL CONTROLS.
4. SIMPLIFIED REMOTE CONTROL SHALL INCLUDE MUTE FUNCTIONS FOR #3 ABOVE, AS WELL AS BASIC VIDEO INPUT CONTROL:
   - MASTER POWER (SYSTEM)
   - ACCESS FOR ON/OFF
   - AUTOMATIC OFF/ON TIMER
   - ACTIVATE AV FEEDS FOR BOTH 'TIE' FEEDS - EITHER ON/OFF OR MUTE, WHICH ARE DISTRIBUTED TO GATHERING INDEPENDENTLY OF PARISH HALL
   - PROJECTION AND SCREEN POWER ON/OFF/UP/DOWN
5. COORDINATE SIMPLIFIED RISER WITH DIV. 27.41.00 SPECIFICATIONS FOR AUDIO, VIDEO, CONTROL, SUBMITTAL AND THE COMMISSIONING DATE.

AV SHEET INDEX:

AV100 AV LEGEND, GENERAL NOTES AND RISER DIAGRAMS
AV101 AV FLOOR PLAN
AV102 AV REFLECTED CEILING PLAN

AUDIO / VIDEO GENERAL NOTES INCLUDING INTEGRATED DIV 26 REQUIREMENTS:

(FOR A/V CONTRACTOR AND ELECTRICAL CONTRACTOR COORDINATION)

1. BID DOCS ARE DIAGRAMMATIC ONLY. COUNTS ARE FOR BIDDING PURPOSES. COORDINATE WITH AV SPECIFICATIONS, ARCHITECTURAL DRAWINGS, AND SITE. AVC TO FULLY REVIEW ELECTRICAL E202 ELECTRICAL DRAWINGS FOR HIS WORK. SPECIFICATIONS, DRAWINGS, AND SCOPE ARE COOPERATIVE. ITEMS ON ONE ARE IMPLIED ON THE OTHER.
2. VERIFY WIRE COUNTS AND PIPE SEPARATION REQUIREMENTS. PROVIDE SPARES WHEN IN DOUBT. FOR OPEN CABLE, ALL MIC IS MIN 6" AWAY FROM ALL OTHER CABLE - NO EXCEPTION.
3. CONFIRM MANUFACTURER'S ACTUAL REQUIREMENTS FOR LOAD, POWER SUPPLIES, CONTROL, AND WIRE GAGE. PLENUM CABLE TRAY MAY BE USED OUTSIDE OF CONDUIT. NO NON PLENUM SHALL BE USED UNLESS INSIDE CONDUIT.
4. ATTACHMENTS TO BUILDING WILL BE RATED/STAMPED WITH SAFETY FACTORS OF 5 OR MORE WITH MANUFACTURERS STAMP FOR IDENTIFICATION. NO DIME STORE HARDWARE ALLOWED, ANYWHERE. PROVIDE BLOCKING IN WALLS FOR RACKS AND VIDEO DISPLAYS.
5. PROVIDE ALL SIGNAL OPTIMIZATION PER SPECIFICATIONS WITH IMPEDANCE AND MANUFACTURERS EQ SETTINGS ACQUIRED IN ADVANCE. FOR DSP NUMBERS, VERIFY FIR FILTERS AND MANUFACTURER'S SETUP IS TRANSFERABLE TO DSP ACTUALLY BID AND USED.
6. COORDINATE ALL BACK BOXES IN ADVANCE ON SITE. VERIFY WITH EC PRIOR TO ROUGH-IN. USE DEEP STYLE BOXES WITH PASS THROUGH. MAINTAIN CABLE SEPARATION AS REQUIRED. PROVIDE PROPER A/V PLATES TO MATCH ELECTRICAL BOXES. ALL PLATES ARE METAL. PROVIDE SUBMITTALS AND SHOP DRAWINGS IN A TIMELY FASHION FOR COORDINATION INCLUDING SPEAKER SUSPENSION FOR PROPER COVERAGE AND CLEAR SIGHT LINES. PROVIDE VIDEO LENS CALCS FOR FULL SCREEN, PER DIV. 27.41.00.
7. COORDINATE AC POWER IN/AV RACK(S). MIN 20 AMP CIRCUIT(S) ANTICIPATED. SINGLE PHASE 120V, WITH UNIPOINT A/V GROUND TO MAIN PANEL. LABEL BREAKERS "FOR SOUND ONLY".
8. EC TO PROVIDE A TECHNICAL GROUND, (SINGLE POINT GROUND SOURCE). CONFIRM GROUNDS FOR SAME AC PANEL AND SINGLE GROUND. INSTALL SEPARATE, DEDICATED NEUTRAL FROM POWER DISTRIBUTION PANEL FOR EACH AV POWER CIRCUIT TO AV RACKS AS REQUIRED.
9. AV CONTRACTOR MUST COORDINATE AND MAINTAIN AIM OF SPEAKERS WITH CEILING LOCATIONS AND SEATING, PRIOR TO INSTALLATION, ON SITE. COVERAGE MAPPING AT MID BAND SPEECH REQUIRED (500HZ-2000HZ) FIELD VERIFY ATTACHMENT POINTS AND BLOCKING NEEDS IN ADVANCE. MAINTAIN CLEAR SIGHT LINES TO SEATS.
10. CABLE HOME RUNS ARE REQUIRED FOR ALL MIC LINES. 70V. CABLE MAY BE TERMINATED IN T-TAP OR DAISY CHAIN FASHION. 18" TAILS AT EACH DEVICE AND TYPICAL 10' RACK TAILS AT RACKS - NO STRAIN OR TENSION. LACE AS REQUIRED. COORDINATE RACK ENTRANCES AT ROUGH-IN WITH E.C.
11. NO INTERIM BOXES FOR CONDUIT OR RACEWAY ARE INDICATED, BUT MAY BE REQUIRED IN FIELD. KEEP 90° BENDS AT MINIMUM, PER NEC CODE. NO MORE THAN THREE (3) 90° BENDS BETWEEN PULL BOXES ARE ALLOWED. NO MORE THAN 100' ALLOWED WITHOUT PULL BOX. NO STAPLING OF OPEN WIRE IS ALLOWED. SEE ELECTRICAL E202, INTEGRATE ALL WORK HERE IN WITH DIV.26 REQUIREMENTS, INCLUDING FIRE STOPPING.

SHEET NOTES:

1. COORDINATE CABLE & WALL JUNCTION BOXES BEFORE ELECTRICAL ROUGH-IN DATE FOR CABLE MANAGEMENT.
2. BASE BID FOR DIV. 26.
3. SEE ALTERNATES THAT APPLY FOR DIV. 27.
4. ALL AV CABLE IS PLENUM GRADE ONLY, WITH ACCESS TO NEW AND EXISTING ACCESSIBLE CEILINGS ALLOWED. NEW CONDUIT STUBS ARE TYPICALLY 3/4 INCH BUSHED. ANTENNAE COAX CABLE STUBS AT CEILING JUNCTURE. USE (2 QTY) COAX CABLE HOMERUNS TO NEW WALL RACK. (2 QTY) BOXES REQUIRED.
5. EXISTING AUDIO FLOOR RACK (IRC AUDIO - 2012) HAS SHURE 800 SERIES MIXER LINE LEVEL OUTPUT WITH ¼" JACK FOR EASTER VIGIL PORTABLE SYSTEMS. NEW DIV. 27 INCLUDES A PASSIVE SPLIT (D.A.) FOR NEW AUDIO FEED FROM NAVE, TO NEW AUDIO RACK THAT WILL FEED A DEDICATED HOMERUN (H.R.) TO GATHERING SPEAKER. SEE DIV. 27.41.00.
6. EXISTING OWNER VIDEO SYSTEM TIE IN, OWNER PROVIDES NEW TERMINATION TO NEW VIDEO FEED VIA NEW-RACK TO #101 DISPLAY. DIV. 26 IS A VIDEO ¾" STUB ONLY, WITH PULL STRING.
7. DIV. 27 SHALL BE A QUALIFIED AUDIO CONTRACTOR AS NAMED IN DIV. 27 SPECIFICATIONS WHO POSSESS AND ARE CERTIFIED TO COMMISSION AND TEST AUDIO SOFTWARE WITH A CALIBRATED MEASUREMENT MICROPHONE.
8. GATHERING SPEAKER IS A SINGLE "FEED" SPEAKER FROM NEW AUDIO FLOOR RACK. PROVIDE SPEAKER HOMERUN (H.R.) FROM GATHERING CEILING (ACT) TO NEW RACK. PROVIDE (2 QTY) SPEAKER ZONES TO #109.

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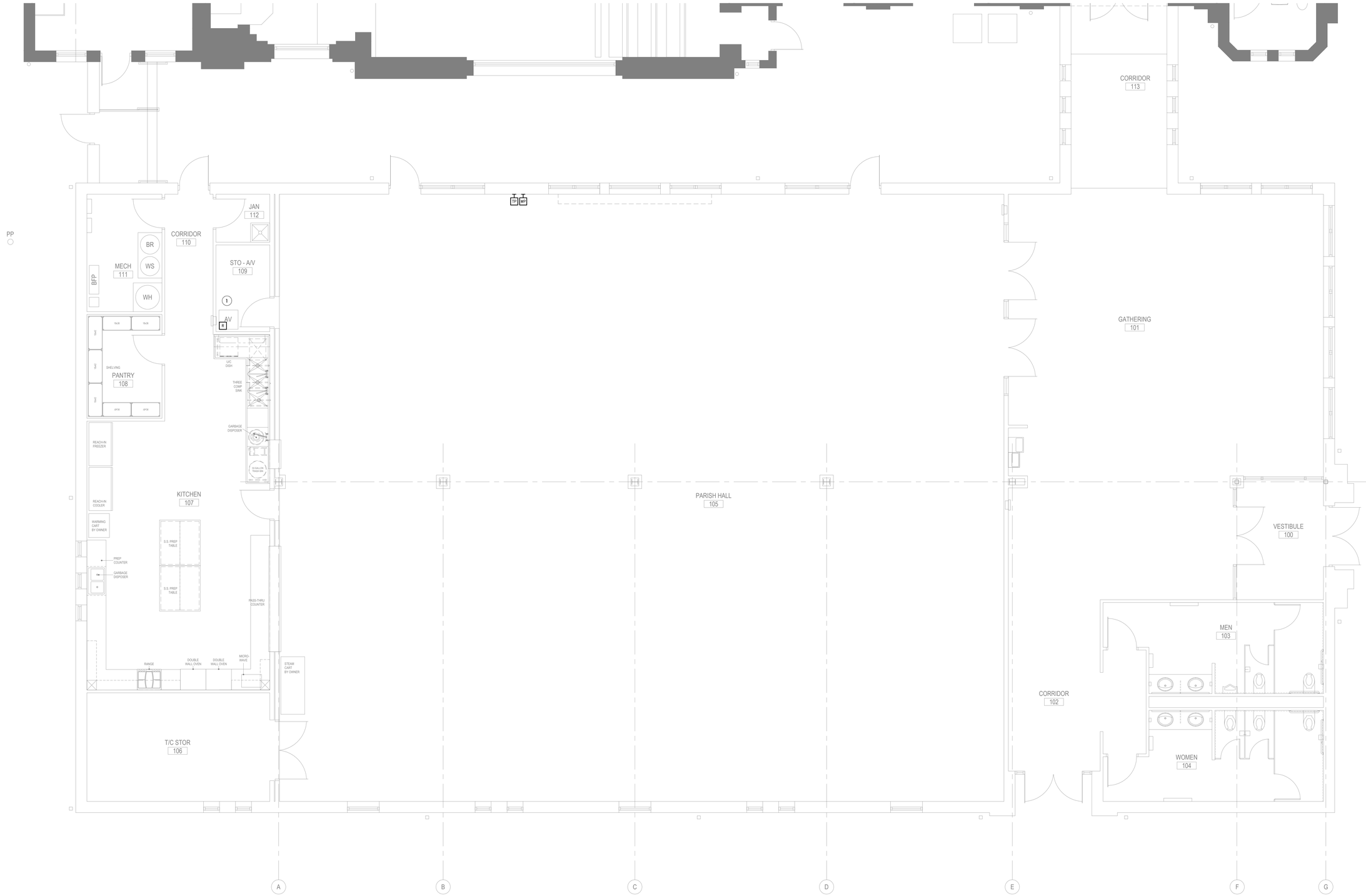
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PROFESSIONAL SOUND REINFORCEMENT
AND AV SYSTEMS
AV LEGEND, GENERAL NOTES & RISER DIAGRAMS

AV100



AV FLOOR PLAN

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

NORTH

SHEET NOTES:

1. SEE ALTERNATES THAT APPLY. DIV. 27 IS ADD ALTERNATE TO G.C. ON BID DATE. DIV. 26 E202 AND AV100 ARE BASE BID, INCLUDING (2) NAVE TIE-INS.

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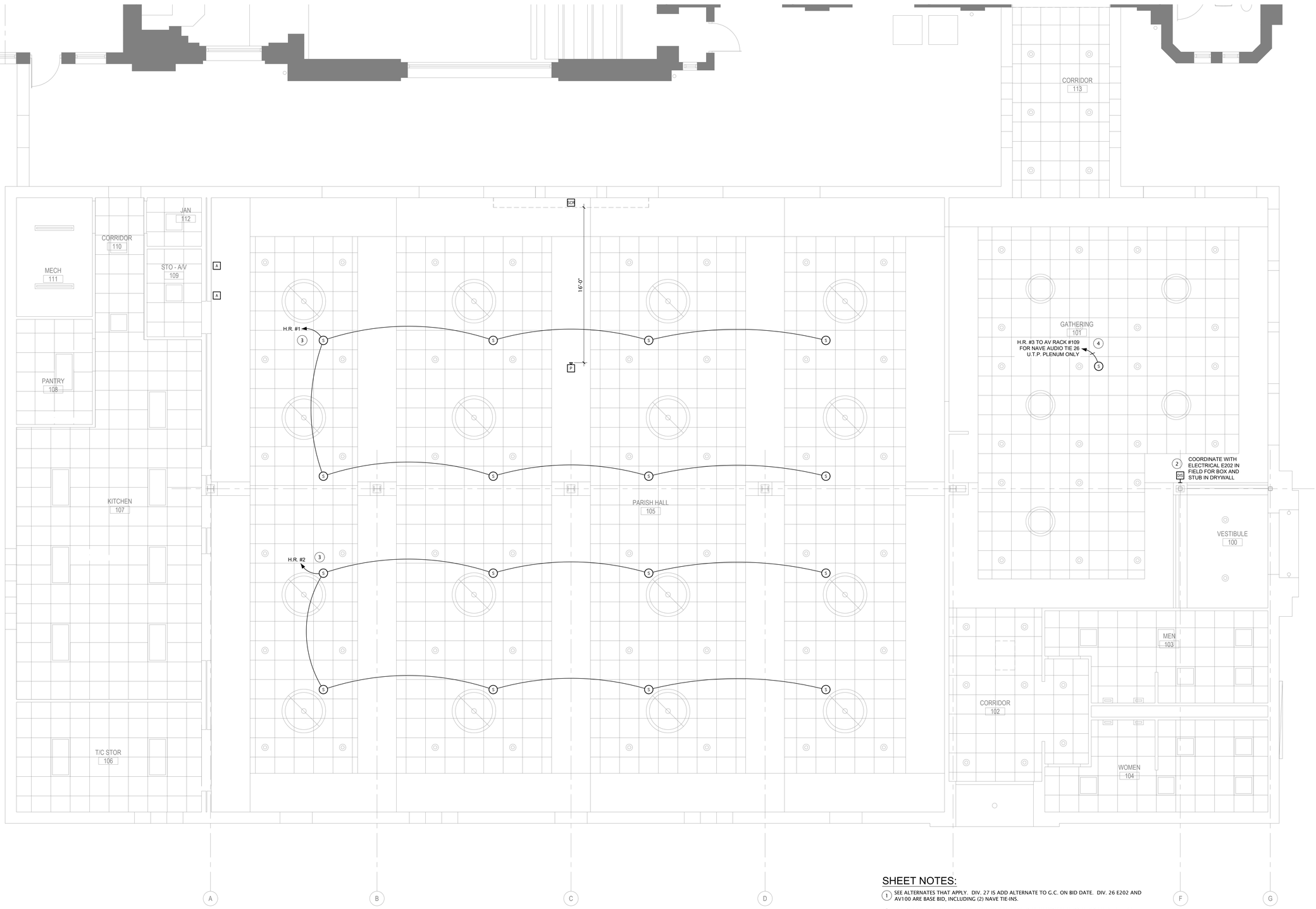
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New Parish Hall
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PROFESSIONAL SOUND REINFORCEMENT
AND AV SYSTEMS
AV Floor Plan

AV101



AV REFLECTED CEILING PLAN

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

NORTH

SHEET NOTES:

1. SEE ALTERNATES THAT APPLY. DIV. 27 IS ADD ALTERNATE TO G.C. ON BID DATE. DIV. 26 E202 AND AV100 ARE BASE BID, INCLUDING (2) NAVE TIE-INS.
2. VIDEO DISPLAY IS TIED TO NAVE WITH DISPLAY FROM OWNER DIGITAL RECORDING FEED, DIV. 27 SHALL PROVIDED A TIE-IN WITH OWNER EXISTING CAMERA FEED AS REQUIRED VIA TIE LINE AND NEW DISPLAY. VIDEO DISPLAY MOUNTED TIGHT TO GYPSUM BOARD CEILING APPROXIMATELY 18" TO 24" OUT FROM GLASS WALL IN VESTIBULE #100. DISPLAY IS FED FROM EXISTING NAVE BALCONY "TIE" (ELECTRICAL E202 AND AV100 RISER). POWER AND SIGNAL ARE ABOVE CEILING AND MOUNT IS SUSPENDED FROM CEILING WITH BLOCKING AND SHORT PIPE MOUNT SECURED ABOVE CEILING.
3. LOUDSPEAKER QUANTITY SHALL BE 16 EVENLY SPACED IN PARISH HALL, WITH TWO HOMERUN ZONES TO RACK.
4. GATHERING IS 3RD ZONE AS SEPARATE FEED TO NEW RACK AND FED FROM EXISTING NAVE SACRISTY RACK. SEE AV100 RISER. DIV. 27 SHALL PROVIDE A TIE FEED FROM EXISTING AUDIO RACK IN SACRISTY AT AUX. LINE LEAD AND ADD TRANSFORMER AND AMPLIFIER CHANNEL AT NEW RACK ROOM #109.

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WRIGHT CONSULTING ASSOCIATES
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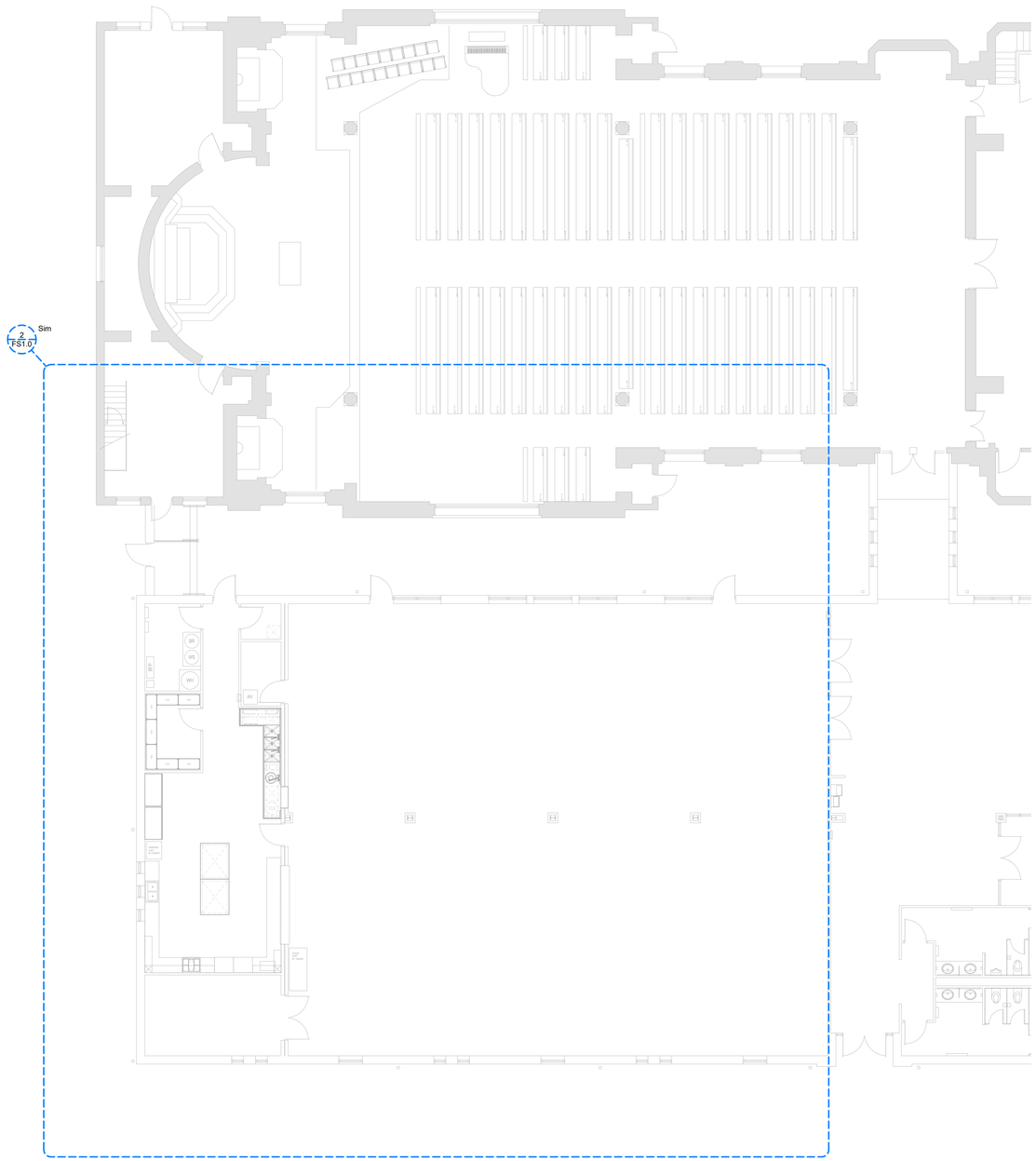
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PROFESSIONAL SOUND REINFORCEMENT
AND AV SYSTEMS
AV Reflected Ceiling Plan

AV102



1 FS1.0 100 FS Equipment (Overall)
1/8" = 1'-0"

Foodservice Symbols & Note Legend

1 Equiment Item Number Tag	1 / FS7.0 Equipment ElevationTag	E1 Mech/Elec Spot Location Tag
A Equipment Requiring Water Filtration	B Fire Suppression System Cabinet	C Walk-In Cooler/Freezer Compressor

Foodservice Abbreviation Legend

AFF	Above Finished Floor	ED	Electrical Division	MECH	Mechanical
AMPS	Amperage	ELEC	Electric, Electrical	MFG	Manufacturer
ARCH	Architectural	GA	Gauge	MISC	Miscellaneous
BLDG	Building	GALV	Galvanized	NIKEC	Not In KEC Contract
BTU	British Thermal Unit	GC	General Contractor	NTS	Not To Scale
CFM	Cubic Feet Per Minute	GD	General Division	PC	Plumbing Contractor
CLG	Ceiling	GPH	Gallons Per Hour	PD	Plumbing Division
CMU	Concrete Masonry Unit	HP	Horsepower	PH	Phase
CONN	Connection	HVAC	Heating, Ventilation & Air Conditioning	PSI	Pounds Per Square Inch
CW	Cold Water	HW	Hot Water	SHT	Sheet
DCO	Duplex Convenience Outlet	KEC	Kitchen Equipment Contractor	STD	Standard
DFA	Drop From Above	KW	Kilowatt	STUB	Stub Up From Floor
DIM	Dimension	MBTU	1,000 BTU'S	TYP	Typical
DWG	Drawing	MC	Mechanical Contractor	V	Voltage
EC	Electrical Contractor	MD	Mechanical Division	VOLT	Voltage

Foodservice Equipment Drawing Notes

These drawings and accompanying specifications are for bidding purposes only, are not to be used in any way for construction and must be considered a complete body of work. Any work called for in one or the other, together with such work as can reasonably be considered a part of the installation and necessary to complete same, shall be included. Any discrepancies between these drawings, accompanying specifications, building code, and local code requirements that may affect installation, fabrication, and/or overall work in any way shall be brought to the attention of Vorndran & Associates. Vorndran & Associates assumes no responsibility for any changes made necessary by the local building codes, ordinances, structurall conditions, or changes made necessary in equipment shown on these drawings.

The basis of design for all drawings, specifications, and detail references is the first manufacturer and model listed. If another listed manufacturer is chosen by the KEC, it is the responsibility of the KEC to provide a model that is equal in production capabilities, capacity, and performance to the first manufacturer and model listed. The KEC is also to verify, coordinate, and allow for proper installation of equipment; considering possible revisions for utility connections, loads, and physical sizes. In the event there are any additional costs or change orders by other trades because of the KEC submitting another listed manufacturer, those charges shall be the sole responsibility of the KEC.

The KEC is responsible to review the plans for accuracy and verify all dimensions and existing conditions prior to the fabrication of any equipment. Vorndran & Associates assumes no responsibility for the accuracy of measurements taken from these drawings. Fabricators, contractors, and other parties utilizing these plans, in connection with this job, are responsible for securing their own measurements. Verify all equipment clearances thru building doors, hallways, or entry points as not all equipment will fit thru standard openings. The KEC is to notify Vorndran & Associates of any errors, omissions, ambiguities, discrepancies, or irregularities prior to start of construction.

These drawings refer to work to be performed by other trades not intended to be part of the KEC's scope of work. Work referenced by other trades is not for assigning work to a specified trade, but rather to clarify the coordination between the KEC and all other trades. The General Contractor is responsible for all notes on these drawings and transmitting the required information to the respective subcontractors.

These drawings and all included information were created for use on this specific project and are the property of Vorndran & Associates. No person or firm should use the included information for any purpose without the express written consent of Vorndran & Associates. The project owner may retain copies of these drawings for informational and reference purposes only.

Foodservice Equipment Drawing Index

SHEET	DESCRIPTION
FS1.0	Overall Building Layout
FS1.1	Foodservice Notes, Layout & Schedule
FS2.0	Foodservice Spot Location Layout
FS2.1	Foodservice Spot Location Layout
FS5.0	Foodservice Details & Elevations

Foodservice Equipment General Notes

All foodservice equipment shall be manufactured, fabricated, furnished and installed in strict accordance with, and bear the emblem of, the National Sanitation Foundation (NSF) as well as any federal, state and local code requirements.

Equipment which is fixed and where it abuts other fixed equipment, building walls or floor shall be sealed thereto with silicone. Gaps between equipment exceeding 3/8" in width must be trimmed out with stainless steel angled trim or matching material trim prior to being sealed.

Fabrication of custom equipment should not begin until all field dimensions and conditions have been verified and coordinated with fabrication details. All counters are to be fabricated properly to support the specified counter top material in accordance with the material manufacturer's guidelines. All "drop-in" equipment and other equipment "attached to", "set on" or "built-in" to the counter top material to be installed in accordance with the material manufacturer's guidelines and technical bulletins for the installation of commercial foodservice equipment.

The KEC is to assist the various trades with the proper installation of components which are furnished as part of the kitchen equipment package. Provide the various trades with piping diagrams and installation instructions where applicable and as required/requested.

Hot water supply to all lavatory, food preparation, and three compartment sinks shall be 120-degrees minimum. Hot water supply to all dishmachines shall be 140-degrees minimum unless otherwise specified.

Mechanical Work By Other Trades

(See Multiple Contract Summary Specification Section For Final Scope Assignment)

Install all faucet assemblies, pre-rinse spray assemblies, quick-disconnect assemblies, hose assemblies, pot filler assemblies, vacuum breakers, check valves, flow control valves, solenoid valves, water pressure reducing valves, gas pressure reducing valves, temperature gauges, pressure gauges, water hammer shock absorbers and water filtration systems furnished by the KEC.

Furnish and install all water, gas and steam supply lines, drain manifolds and tailpieces, traps, shut-off valves, vent piping, gas supply line strainers/filters, back flow prevention devices, floor drains and floor sinks as required for equipment installation and any code requirements. All supply lines servicing equipment adjacent to an exterior wall are to be ran along interior face of wall to avoid potential freezing.

Furnish and install chrome plated, or painted, piping on all exposed water or gas piping above counter height or in "direct" line of sight to the owner/operator. Furnish and install stainless steel or chrome plated brass escutcheons or flanges for all penetrating utility lines and seal water-tight and vermin proof.

Furnish and install type "I" copper tubing drain lines from all applicable equipment to floor sinks (including walk-in cooler and freezer coils) and to insulate all drain lines as required. Install drain lines so they do not affect undercounter storage and other operational functions of the fixtures.

Furnish and install all 12"x12"x8" floor sinks with half grates. Floor sinks to be mounted in floor such that the top of the rim will be flush with finished floor elevation unless otherwise directed by state and local codes. Floor sinks for dishmachines and all cooking equipment to have a minimum of 3" drain connection. Do not slope floor to floor sinks/drains in foodservice areas!!! Finished floors below all kitchen equipment to be smooth and level unless shown otherwise.

Utilize existing floor drains, floor sinks, direct plumbing drains, gas connections and water connections where possible for new equipment and cap off any existing services made obsolete by these drawings.

Electrical Work By Other Trades

(See Multiple Contract Summary Specification Section For Final Scope Assignment)

Install all control panels, starters, solenoid valves, junction boxes and disconnect switches furnished by the KEC.

Furnish and install all wiring, electrical outlets, starters, junction boxes, disconnect switches and conduit required for equipment installation in accordance with manufacturer's specifications and electrical code requirements. Electrical receptacles to be flush mounted unless otherwise noted.

Furnish and install grounding wire to all foodservice equipment in addition to the number of wires noted in individual services. Furnish and install ground fault protection for any receptacle within the kitchen and serving areas. Furnish and install shunt trip breakers for all electrical service to equipment under exhaust hoods when fire suppression system is required.

Furnish 6'-0" pigtail flex conduit at all direct connection stub-outs and extend to final connection on equipment. Verify all foodservice equipment with direct connection to be in line of sight of kitchen electrical distribution panel, and if not, furnish and install a fused quick disconnect adjacent to equipment. Provide caps and cords for all items which use convenience outlets when not supplied by the manufacturer and shorten any cords if necessary.

Utilize existing electrical connections where possible for new equipment and cap off any existing services made obsolete by these plans.

Foodservice Spot Location Symbols

(H) Hot Water Connection	Exhaust Ventilation Connection	Refer To Schedules For More Information
(C) Cold Water Connection	Supply Ventilation Connection	Disconnect Switch Located On Equipment
(W) Direct Waste Connection	Dedicated Electrical Connection (Wall)	Light Fixture Connection
Gas Connection	Dedicated Electrical Connection (DFA)	Defrost Time Clock Located On Equipment
(R) Refrigeration Connection	Dedicated Electrical Connection (Stub)	(S) Solenoid Valve Connection
Steam Supply Connection	Duplex Convenience Outlet	(T) Thermostat Connection
Steam Return Connection	Special Purpose Convenience Outlet	(D) Telephone/Data Connection
Indirect 12"x12" Floor Sink	(J) Junction Box Located On Equipment	Piping/Wiring By Mech/Elec Division
Indirect Floor Drain	Fire Suppression System Pull Station	Piping/Wiring By KEC

The included spot location schedules and drawings are for the convenience of bidding, to be used only as a guide for foodservice equipment electrical, plumbing and exhaust ventilation spot locations and are not intended for use on the jobsite for rough-in purposes. The included spot location schedules and drawings have been created per the basis of design equipment and are specific to the equipment shown on the foodservice equipment plan. The KEC shall be responsible for creating actual rough-in schedules and drawings (per the equipment submitted on their unit price form) showing accurate locations for utilities specific to each piece of equipment and work to be installed in accordance with all federal, state and local codes. If the KEC chooses to submit another listed manufacturer, the KEC shall be solely responsible for any up charges and/or change orders by other trades accrued as a result of the changes required for the equipment provided. Refer to architectural, plumbing, and electrical drawing sets and accompanying specifications for additional requirements not shown.

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FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
JIM KESENICH
FCSI 9508165
PROFESSIONAL MEMBER

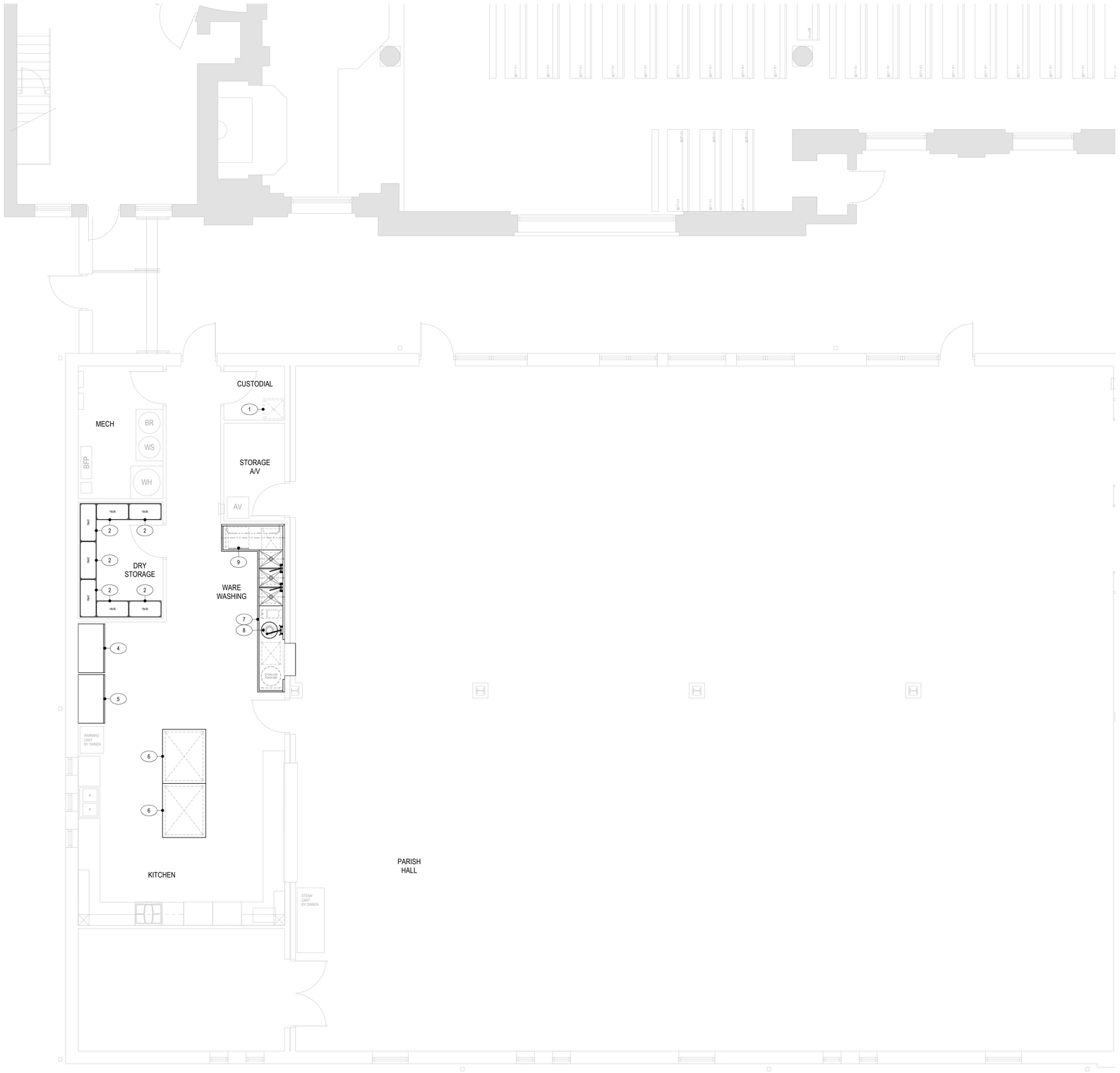
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Overall Building Layout

FS1.0



1 FS1.1 101 FS Equipment (Layout)
1/4" = 1'-0"

Foodservice Equipment Schedule

* = Item numbers with * denotes items that are not shown on equipment layout...Refer to itemized specifications for more information.

ITEM	QTY	ITEM DESCRIPTION	MANUFACTURER	MODEL
1	1	Floor Mounted Mop Sink	By Plumbing Division	Not In KEC Contract
2	7	Stationary Dry Storage Shelving	Intermetro	Metromax Q
3	1	Spare Number	----------	----------
4	1	Two Door Reach-In Freezer	True Foodservice	TS-49F-HC
5	1	Two Door Reach-In Refrigerator	True Foodservice	TS-49-HC
6	2	Mobile Kitchen Prep Worktable	Fabricated Equipment	Custom
7	1	Three Compartment Sink	Fabricated Equipment	Custom
8	1	Garbage Disposal System	In-Sink-Erator	SS-200-18A-AS101
9	1	Undercounter Dishmachine	Hobart Corporation	CUH-1
10	1	Spare Number	----------	----------
11	1	Spare Number	----------	----------
12	1	Spare Number	----------	----------
13	1	Spare Number	----------	----------
14	1	Spare Number	----------	----------
15	1	Spare Number	----------	----------

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JIM KESENICH
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9508165
PROFESSIONAL MEMBER

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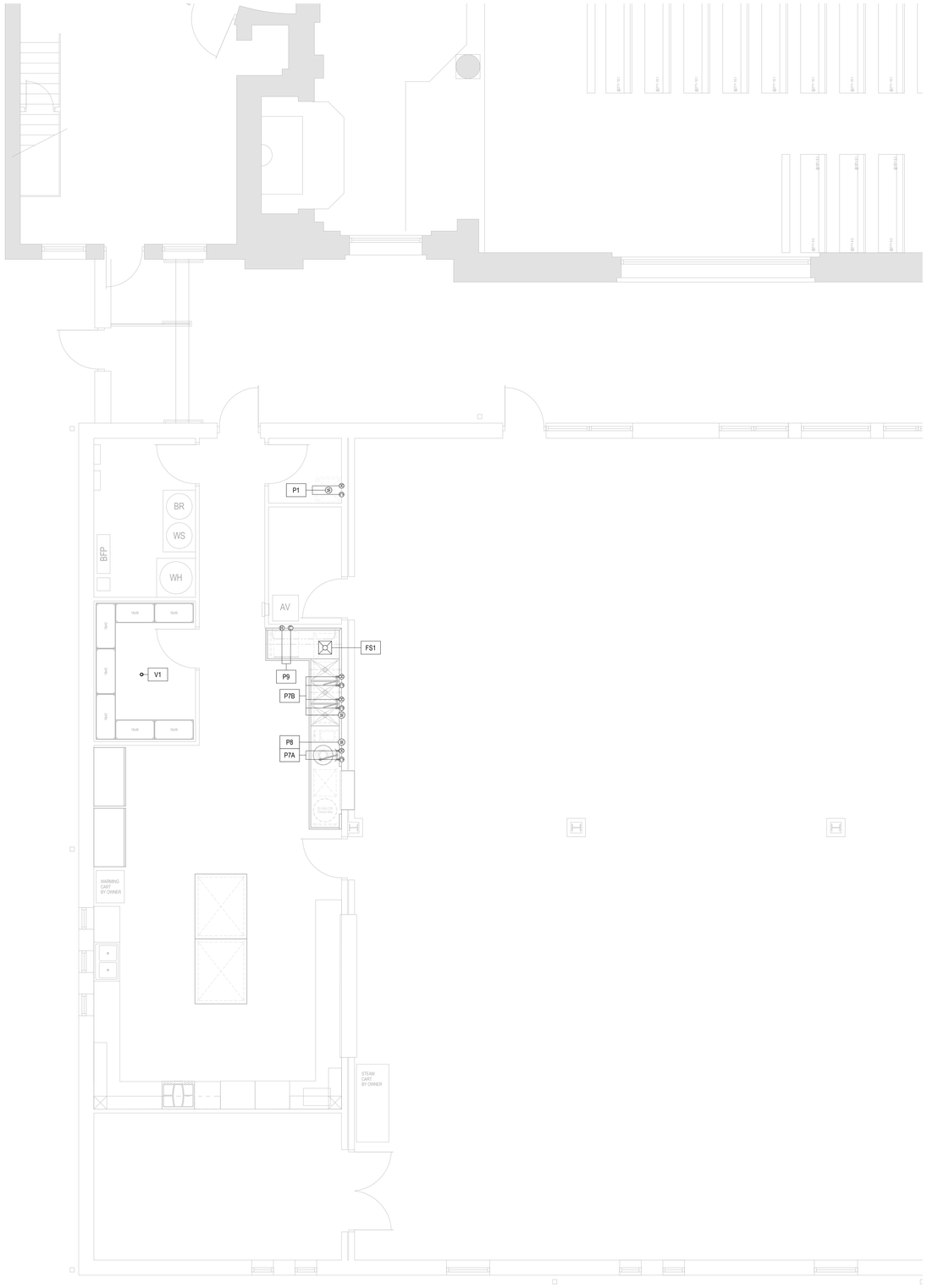
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Foodservice Notes, Layout & Schedule

FS1.1



1 FS2.0 200 FS Spot Location (Layout-P)
1/4" = 1'-0"

Foodservice Equipment Mechanical Schedule

ITEM	DESCRIPTION	MARK	HW	CW	AFF	DRAIN	DRAIN HEIGHT	INDIRECT	GAS	MBTU	AFF	REMARKS
FD1	Standard Floor Drain	FD1						Floor Drain				
FS1	12"x12"x8" Deep Floor Sink	FS1						Floor Sink				
1	Floor Mounted Mop Sink	P1	0.75	0.75	20	2.00	Stub					Extend water to faucet mop sink faucet - Extend drain to direct drain connection
7	Three Compartment Sink	P7A	0.50	0.75	20							Extend water to pre-rinse sprayer mounted on equipment
	Three Compartment Sink	P7B	0.75	0.75	20	2.00	8	Floor Sink				Extend water to faucets mounted on equipment - Manifold washrinse drains and extend to direct drain connection - Extend sanitize drain to indirect drain connection
8	Garbage Disposal System	P8		0.50	Item#7	2.00	8					Extend water to equipment thru KEC furnished solenoids & vacuum breaker - Extend drain to direct drain connection
9	Undercounter Dishmachine	P9	0.75	0.75	20	2.00		Floor Sink				Extend hot water to internal booster heater thru KEC furnished water filter - Extend cold water to drain water tempering device on equipment - Extend drain to indirect drain connection
V1	Dry Storage Room Ventilation	V1										Dry storage room must be cooled, heated, and/or ventilated as required to maintain a temperature of 68-72 °F year round
V2	Warewash Room Ventilation	V2										Warewash equipment dissipates heat directly into warewash area - Exhaust by means other than the dishmachine exhaust system

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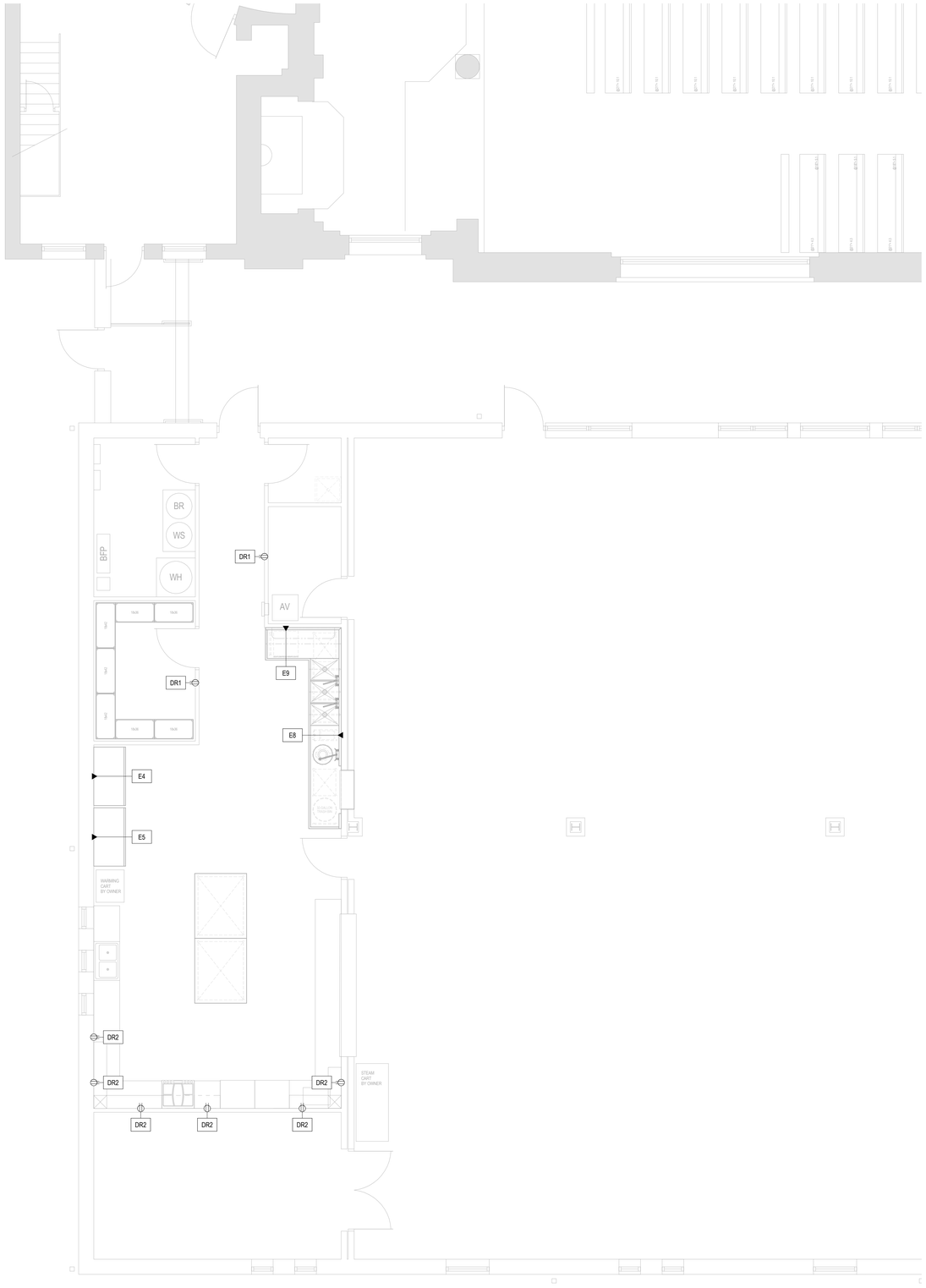
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Foodservice Spot Location Layout

FS2.0



1 FS2.1 201 FS Spot Location (Layout-E)
1/4" = 1'-0"

Foodservice Equipment Electrical Schedule

ITEM	DESCRIPTION	MARK	VOLTAGE	PHS	KW	AMPS	HP	CONN	NEMA	AFF	ELECTRICAL REMARKS
DR1	Duplex Convenience Receptacle	DR1	120	1		16.00		Plug	5-20P	16	
DR2	Duplex Convenience Receptacle	DR2	120	1		16.00		Plug	5-20P	48	Furnish horizontal receptacle above countertop
4	Two Door Reach-In Freezer	E4	120	1		9.60	1.00	Plug	5-15P	16	
5	Two Door Reach-In Refrigerator	E5	120	1		5.40	0.50	Plug	5-15P	16	
8	Garbage Disposal System	E8	208	1		7.70	2.00	Direct		16	Extend to equipment thru KEC furnished control panel
9	Undercounter Dishmachine	E9	208	1		24.20		Direct		16	Extend to equipment thru electrical disconnect

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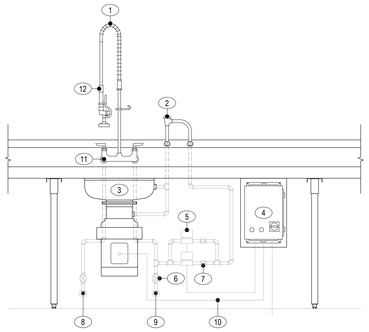
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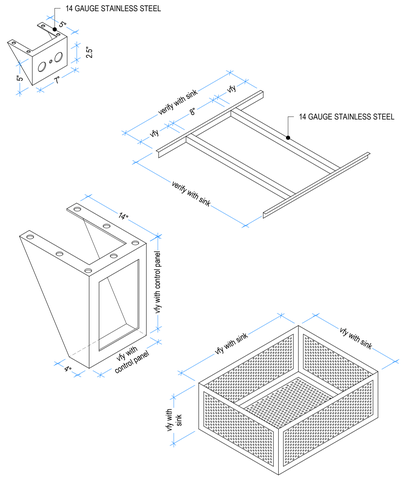
Foodservice Spot Location Layout

FS2.1

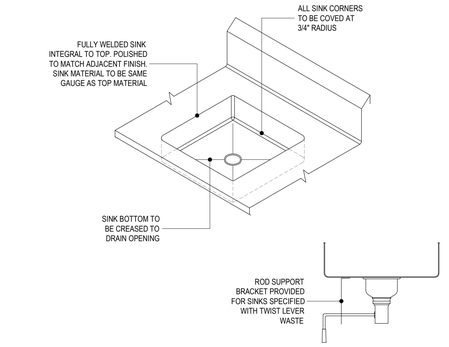
1. PRE-RINSE ASSEMBLY (BY KEC)
2. VACUUM BREAKER ASSEMBLY (BY KEC)
3. DISPOSER/DISPOSER CONE (BY KEC)
4. DISPOSER CONTROL PANEL BRACKET (BY KEC)
5. TWO (2) SOLENOID VALVES (BY KEC)
6. QUARTER-TURN BALL VALVE (BY PLUMBING)
7. FLOW CONTROL VALVE (BY KEC)
8. HOT WATER SUPPLY (BY PLUMBING)
9. COLD WATER SUPPLY (BY PLUMBING)
10. ELECTRICAL CONNECTIONS (BY ELECTRICAL)
11. PRE-RINSE ASSEMBLY CHECK VALVES (BY KEC)
12. PRE-RINSE BACKFLOW PREVENTER (BY KEC)



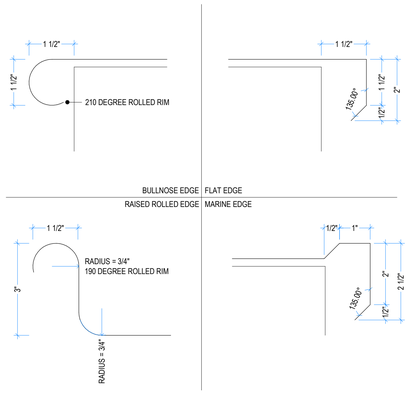
3 Disposer Utility Connections
Not To Scale



2 Dishtable Accessories
Not To Scale



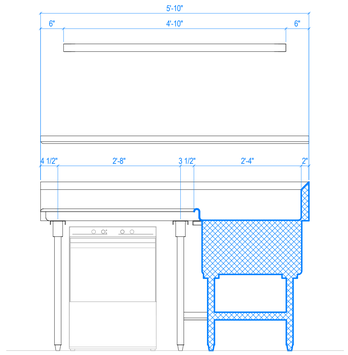
1 Stainless Steel Sink Construction
Not To Scale



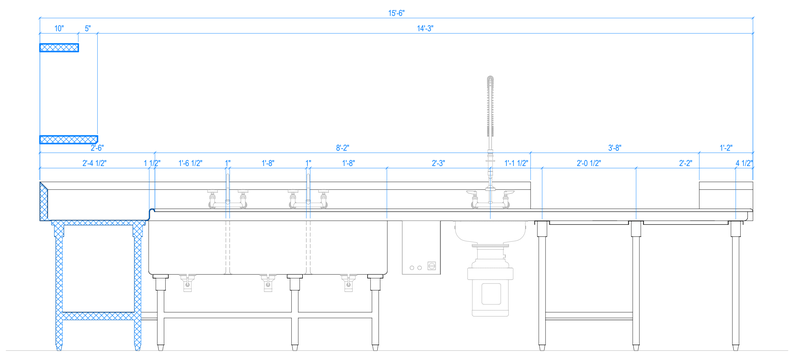
5 Stainless Steel Countertop Edge Styles
Not To Scale

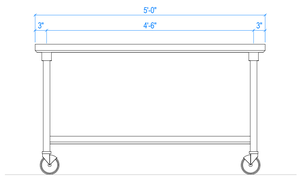


4 Custom Fabricated Leg Assembly
Not To Scale



7 FS5.0 Item #7: Three Compartment Sink
3/4" = 1'-0"





6 FS5.0 Item #6: Mobile Kitchen Prep Worktable
3/4" = 1'-0"

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Foodservice Details & Elevations

FS5.0

MECHANICAL / PLUMBING SYMBOLS AND ABBREVIATIONS

MECHANICAL / PLUMBING ABBREVIATIONS:

A	AIR
ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR OR AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APPX.	APPROXIMATE
ARCH	ARCHITECT
AS	AIR SEPARATOR
ATU	AIR TERMINAL UNIT
AV	ACID VENT
AW	ACID WASTE
BBD	BOILER BLOW DOWN
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFOI INSTALLED	CONTRACTOR FURNISHED/OWNER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONV	CONVECTOR
CP	CONDENSATE PUMP
CPD	CONDENSATE PUMP DISCHARGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CS	CAST SINK
CSS	CLINIC SERVICE SINK
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	COLD WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWP	CHILLED WATER PUMP
D	DRAIN (INDIRECT)
DB	DRY BULB
DCVA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE
DEPT	DEPARTEMENT
DF	DRINKING FOUNTAIN
DI	DEIONIZED WATER OR DUCTILE IRON
DIA	DIAMETER
DISCH	DISCHARGE
DN	DOWN
DS	DOWNSPOUT
DUC	DOOR UNDER CUT
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ENVIRONMENTAL CONTROLS CONTRACTOR
ECWR	EQUIPMENT COOLING WATER RETURN
ECWS	EQUIPMENT COOLING WATER SUPPLY
EDR	EQUIVALENT DIRECT RADIATION
ESEW	EMERGENCY SHOWER AND EYE WASH
EEW	EMERGENCY EYE WASH
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
EMD	EXPANDED METAL GRILLE
ENCL	ENCLOSURE
EOM	END OF MAIN DRIP
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXT	EXTERIOR
°F	DEGREES FEHRENHEIT
F&B	FACE AND BYPASS
F&T	FLOAT AND THERMOSTATIC TRAP
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER OR FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH
FL	FIRE LINE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FTG	FOOTING
FTR	FIN TUBE RADIATION
G	GAS, NATURAL
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HB	HOSE BIBB
HC	HOSE CABINET
HD	HEAD
HGT	HEIGHT
HNDCP	HANDICAPPED
HOA	HAND-OFF-AUTOMATIC
HORZ	HORIZONTAL
HOSP	HOSPITAL
HP	HORSEPOWER
HPSR	HIGH PRESSURE CONDENSATE RETURN
HPSS	HIGH PRESSURE STAEM SUPPLY
HTR	HEATER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATION
HWP	HEATING HOT WATER PUMP
HWHR	HEATING HOT WATER RETURN
HWCP	HOT WATER CIRCULATION PUMP
HWHS	HEATING HOT WATER SUPPLY
ID	INSIDE DIAMETER OR DIMENSION
I.E.	INVERT ELEVATION
INCL	INCLUDE
INSUL	INSULATED
INT	INTERIOR
IFB	INTEGRAL FACE AND BYPASS
IW	INDIRECT WASTE
KEC	KITCHEN EQUIPMENT CONTRACTOR
LAB	LABORATORY
LAF	LAMINAR AIR FLOW
LAT	LEAING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LOC	LOCATION
LPSR	LOW PRESSURE CONDENSATE RETURN
LPSS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MB	MOP BASIN
MBH	BTU/HR X 1000
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED OR NOISE CRITERIA
NO	NORMALLY OPEN OR NITROUS OXIDE
NO	NUMBER
NTS	NOT TO SCALE
NPW	NON-POTABLE WATER
O	OXYGEN
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
ODF	OVERFLOW ROOF DRAIN
OFOI	OWNER FURNISHED/OWNER INSTALLED
OPNG	OPENING
OSD	OPEN SITE DRAIN
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PE	PNEUMATIC ELECTRIC
PF	PREFILTERS
PHC	PREHEAT COIL
PHWR	PERIMETER HEATING HOT WATER RETURN
PHWS	PERIMETER HEATING HOT WATER SUPPLY
PIV	POST INDICATOR VALVE
PLT	PLASTER TRAP
POC	POINT OF CONNECTION
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRES	PRESSURE
PRV	PRESSURE REDUCING VALVE/PRESSURE RELIEF VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PNEUMATIC TUBE
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RAD	RADIATION
RAT	RETURN AIR TEMPERATURE
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECEIVER
RECIR	RECIRCULATING
REF	REFRIGERATOR
RAF	RETURN AIR FAN
RG	RETURN GRILLE
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANTN LIQUID
RM	ROOM
RO	REVERSE OSMOSIS WATER
RP	RADIANT PANEL
RPBP	REDUCTED PRESSURE BACKFLOW REVENTER
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
S	SOIL
SA	SUPPLY AIR
SAN	SANITARY
SCC	STEAM CONDENSATE COOLER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW	SOFT COLD WATER (DOMESTIC)
SD	SUPPLY DIFFUSER OR SMOKE DAMPER
SAF	SUPPLY AIR FAN
SH	SHOWER
SHT	SHEET
SI	SEDIMENT INTERCEPTOR
SK	SINK
SPEC	SPECIFICATIONS
SRV	SAFETY RELIEF VALVE
SQ	SQUARE
STD	STANDARD
STRUCT	STRUCTURAL
SU	SHOWER UNIT
TCC	TEMPERATURE CONTROL CONTRACTOR
TDV	TRIPLE DUTY VALVE
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT
U/G	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UR	URINAL
V	VENT
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VPD	VACUUM PUMP DISCHARGE (HEATING)
VSC	VARIABLE SPEED CONTROLLER
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WGT	WEIGHT
WH	HALL HYDRANT
WP	WEATHERPROOF

PIPING:

ACD	AIR CONDITIONER DRAIN
AV	ACID VENT
AW	ACID WASTE
BFW	BOILER FEED WATER
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CO2	CARBON DIOXIDE
CPD	CONDENSATE PUMP DISCHARGE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CSW	COLD SOFT WATER
CW	DOMESTIC COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DI	DEIONIZED WATER
DTWR	DUAL TEMP WATER RETURN
DTWS	DUAL TEMP WATER SUPPLY
FP	FIRE PROTECTION
G	NATURAL GAS
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
140 HW	140 DEGREE DOMESTIC HOT WATER
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HSW	HOT SOFT WATER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATION
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
IW	INDIRECT WASTE
LA	LABORATORY AIR
LP GAS	LP GAS
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
MA	MEDICAL AIR
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MV	MEDICAL VACUUM
N	NITROGEN
NO	NITROUS OXIDE
NPW	NON-POTABLE WATER
O	OXYGEN
PHWR	PERIMETER HEATING HOT WATER RETURN
PHWS	PERIMETER HEATING HOT WATER SUPPLY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RO	REVERSE OSMOSIS WATER
RS	REFRIGERANT SUCTION
SAN	SANITARY WASTE
ST	STORM SEWER
SV	STEAM VENT
V	SANITARY VENT
VV	VACUUM VENT
WAGD	WASTE ANESTHESIA GAS DISPOSAL
	PIPE SLOPES IN DIRECTION OF ARROW

DUCTWORK:

	SUPPLY UP
	SUPPLY DOWN
	RETURN UP
	RETURN DOWN
	EXHAUST UP
	EXHAUST DOWN
	ROUND UP
	ROUND DOWN
	OVAL RETURN UP
	OVAL RETURN DOWN
	OVAL SUPPLY UP
	OVAL SUPPLY DOWN
	90° MITERED ELBOW WITH TURNING VANES
	STANDARD RADIUS ELBOW WITH CENTER RADIUS EQUAL TO 1-1/2 TIMES WIDTH OF DUCT
	DUCT END CAP
	DUCT TRANSITION FROM SQ. (OR RECT.) TO ROUND (OR FLAT OVAL)
	FLEXIBLE DUCT
	VOLUME DAMPER
BDD	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
SD	SMOKE DAMPER
FD	FIRE DAMPER - VERTICAL
FSD	FIRE/SMOKE DAMPER
FD	FIRE DAMPER - HORIZONTAL
FD	CEILING FIRE DAMPER
AFMS	AIR FLOW MEASURING STATION
AD	ACCESS DOOR
12"x6"	FLAT OVAL SPIRAL DUCT (FIRST DIMENSION, SIDE SHOWN)
12"Ø	ROUND SPIRAL DUCT
12"x6"	RECTANGULAR DUCT (FIRST DIMENSION, SIDE SHOWN)
12"x6"	ROUND DUCT TAKE-OFF WITH DAMPER AND FLEXIBLE DUCT CONNECTION
	BOOT TAP OR 45° ENTRY FITTING
	BELLMOUTH FITTING
	ROUND-ROUND/FLAT OVAL-TAKEOFF
	45° LATERAL
	FLEXIBLE CONNECTION
R D	R/R(SE). D/(DROP) ARROW IN DIRECTION OF AIR FLOW
SA-X	SOUND ATTENUATOR
	LOUVER AND SCREEN
	INSULATED METAL PANEL
	RETURN AIR FLOW DIRECTION ARROW
	SUPPLY AIR FLOW DIRECTION ARROW

SUPPLY DIFFUSER:

	DIFFUSER (NO AIRFLOW IN SHADED DIRECTION)
SD-X 250	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE
SD-X 250	DIFFUSER TYPE DIFFUSER CFM

RETURN / EXHAUST GRILLE:

SD-X 250	GRILLE TYPE DIFFUSER CFM

LINEAR SLOT DIFFUSER:

SD-X 250	LINEAR SLOT DIFFUSER TYPE DIFFUSER CFM

GENERAL SYMBOLS:

	NEW
	EXISTING
	DEMOLITION
	POINT OF CONNECTION TO EXISTING SYSTEM.
1	PLAN NOTE
01 M5	SECTION WITH TOP NUMBER INDICATING SECTION DESIGNATION AND BOTTOM NUMBER INDICATING DRAWING THAT SECTION IS CUT ON OR DRAWING THAT SECTION IS DRAWN ON
A M5	DETAIL WITH TOP LETTER INDICATING DETAIL DESIGNATION AND BOTTOM NUMBER INDICATING DRAWING THAT DETAIL IS REFERENCED ON OR DRAWING THAT DETAIL IS DRAWN ON

VALVES:

	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GLOBE VALVE
	CALIBRATED BALANCING VALVE
	PLUG VALVE
	TWO WAY TEMPERATURE CONTROL VALVE
S	SOLENOID VALVE
	NEEDLE VALVE
	THERMAL EXPANSION VALVE
	AUTOMATIC FLOW CONTROL VALVE
	BACKFLOW PREVENTER/REDUCED PRESSURE BACKFLOW PREVENTER
	ANGLE GLOBE VALVE
	PRESSURE RELIEF, ANGLE TYPE VALVE
	THREE WAY TEMPERATURE CONTROL VALVE
	INDICATES EXPANSION LOOP
A	ATMOSPHERIC VACUUM BREAKER
P	PRESSURE VACUUM BREAKER
	DOMESTIC WATER TEMPERATURE REGULATING VALVE
	EXPANSION JOINT
	FLOW METER
	FLOOR CLEANOUT
	FLOOR DRAIN
	FIRE PROTECTION ZONE CONTROL VALVE WITH SUPERVISORY SWITCH
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	STEAM SAFETY RELIEF VALVE
	ANGLE VALVE
	GAS PRESSURE REDUCING/REGULATING VALVE
	SHUT-OFF COCK (HYDRONICS)
	UPRIGHT SPRINKLER HEAD
	QUICK RESPONSE PENDANT SPRINKLER HEAD
	FLAT CONCEALED PENDANT SPRINKLER HEAD
	DRY PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	PRESSURE AND TEMPERATURE PLUG
	REFRIGERANT SIGHT GLASS

FITTINGS & MISCELLANEOUS ACCESSORIES:

CO	CLEANOUT
	LINE BREAK
	PIPE ELBOW UP (RISER)
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	CAP OR PLUG
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	Y-STRAINER
	FLEXIBLE CONNECTION
	FLANGES
	UNION
	DIRECTION OF FLOW
	PIPE GUIDE
	PIPE ANCHOR
	FILTER
	THERMOMETER
	GAUGE
T	SENSOR (T=TEMP H=HUMIDITY)
FS	FLOW SWITCH
	STEAM TRAP
T	THERMOSTAT/TEMPERATURE SENSOR
H	HUMIDISTAT
P	PRESSURE SENSOR
CO	CO2 SENSOR
D	SMOKE DETECTOR (DUCT MOUNTED)

GENERAL MECHANICAL / PLUMBING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING AND OBSERVING THE EXISTING BUILDING PRIOR TO BID AND VISUALLY CONFIRMING THE CONDITIONS AFFECTING CONTRACTOR'S WORK. VERIFY SIZE, LOCATION, ETC. OF EXISTING PIPING AND EQUIPMENT. NO ADDITIONAL COSTS WILL BE PAID TO THE CONTRACTOR BECAUSE OF FAILURE TO OBTAIN INFORMATION ON EXISTING CONDITIONS.
2. COMPLY WITH APPLICABLE MECHANICAL AND PLUMBING CODES AND STANDARDS PERTAINING TO MATERIALS, PRODUCTS AND INSTALLATION OF MECHANICAL SYSTEMS.
3. PROVIDE PROPER QUANTITY OF MATERIALS AND EQUIPMENT AS REQUIRED FOR COMPLETE INSTALLATION OF EACH MECHANICAL AND PLUMBING SYSTEM.
4. COORDINATE MECHANICAL PENETRATIONS OF/WITH OTHER WORK TO AVOID INTERFERENCES. SEAL PENETRATIONS AS NOTED AND/OR SPECIFIED MAINTAINING THE FIRE RATING OF OTHER WORK WHERE APPLICABLE, INCLUDING BUT NOT LIMITED TO EXISTING FLOOR TO FLOOR RATING.
5. COORDINATE LOCATIONS OF GRILLES AND DIFFUSERS WITH OTHER WORK TO AVOID INTERFERENCES. CONTRACTOR IS REQUIRED TO COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH OTHER TRADES.
6. SUPPORT MECHANICAL WORK FROM THE STRUCTURE AND NOT FROM THE UNDERSIDE OF ROOF DECK OR FLOOR SLAB. REFER TO SPECIFICATIONS.
7. DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED. GENERALLY, FIRST DIMENSION IS PLAN WIDTH; SECOND DIMENSION IS PLAN DEPTH. AT HIS OPTION AND/OR AS REQUIRED BY FIELD CONDITIONS, CONTRACTOR MAY ADJUST DUCT SIZES MAINTAINING AN EQUIVALENT FREE AREA UP TO A WIDTH TO DEPTH RATIO OF 4 TO 1.
8. GENERALLY, MAINTAIN A MINIMUM OF 6" OF CLEARANCE FROM BOTTOM OF MECHANICAL WORK TO CEILING FOR INSTALLATION OF OTHER WORK. COORDINATE LOCATIONS AND ELEVATIONS OF MECHANICAL WORK WITH OTHER WORK TO AVOID INTERFERENCES.
9. PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND WALLS WHERE REQUIRED FOR ACCESS TO VALVES, AIR TERMINAL UNITS, FIRE DAMPERS, VOLUME DAMPERS, WATER HAMMER ARRESTORS, ETC.
10. DUCTWORK AND PIPING OFFSETS ARE NOT NECESSARILY SHOWN ON PLANS. EXTENSIVE COORDINATION IS REQUIRED BETWEEN TRADES. CONTRACTOR SHALL VERIFY ALL ROUTINGS PRIOR TO FABRICATION AND PROVIDE OFFSETS AS REQUIRED.
11. PROVIDE BALANCING DAMPERS WHERE INDICATED ON THE DRAWINGS. IT IS THE DESIGN INTENT TO PROVIDE ADEQUATE QUANTITIES AND PROPER LOCATIONS OF BALANCING DAMPERS TO BALANCE THE SYSTEM TO THE QUANTITIES INDICATED. IF DAMPERS IN ADDITION TO THOSE SHOWN ARE REQUIRED TO ACHIEVE PROPER SYSTEM BALANCING, IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL DAMPERS.
12. PROVIDE ACCESS DOORS IN DUCTWORK ADJACENT TO FIRE AND COMBINATION FIRE/SMOKE DAMPERS AND AUTOMATIC CONTROL VALVES TO ALLOW ACCESS AND RESETTING OF THE DAMPER OR VALVE.
13. FLEXIBLE DUCT IS ALLOWED WHERE SHOWN ON PLANS. FLEXIBLE DUCT LENGTHS SHALL BE LIMITED TO 4'-0" AND SHALL ONLY BE USED ON THE SUPPLY AIR SYSTEM. TOTAL CHANGE IN DIRECTION SHALL BE LIMITED TO 90°.
14. PROVIDE A P-TRAP FOR FLOOR DRAINS AND DRAINAGE STANDPIPES PROVIDED WITHOUT AN INTEGRAL TRAP.
15. EXISTING MECHANICAL AND PLUMBING SYSTEMS, EQUIPMENT AND DEVICES INDICATED ON DRAWINGS ARE BASED ON EXISTING DRAWINGS AND FIELD OBSERVATION. FIELD VERIFY EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ARCHITECT/ENGINEER.
16. FOR DUCTWORK PENETRATING A ONE-HOUR FIRE RATED WALL WHERE A FIRE DAMPER IS NOT SHOWN, PROVIDE U.L. LISTED THROUGH-PENETRATION FIRE STOPPING SYSTEM THAT IS SPECIFIC TO THE WALL CONSTRUCTION ASSEMBLY AND COMPLIANT WITH ASTM E814. THE SYSTEM SHALL BE FIRE TESTED PER ASTEM E119 AND COMPLY WITH EXCEPTION 1 AND 3 OF 2012 IBC PART 717.5.2. INSTALL SYSTEM IN COMPLIANCE WITH FIRE STOPPING MANUFACTURER U.L. APPROVED DETAIL.
17. ISOLATION VALVES ABOVE CEILINGS SHALL BE WITHIN 2'-0" OF THE CEILING.
18. STORM AND SANITARY PIPING SHALL BE INSTALLED AWAY FROM STRUCTURAL FOOTINGS AND PADS IN A WAY THAT TRENCH WALLS FOR THE PIPING ARE LOCATED OUTSIDE OF A LINE THAT EXTENDS OUT AT A 45 DEGREE ANGLE FROM THE BOTTOM OF THE FOOTING DOWNWARD TO PIPING OR BOTTOM OF TRENCH. VERIFY FOOTING AND PAD DIMENSIONS WITH ORIGINAL BUILDING CONSTRUCTION DOCUMENTS.

NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT

*** INFORMATION ON THIS SHEET APPLIES TO PLUMBING AND MECHANICAL WORK**

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ATP ENGINEERING

DAVID SHACK REGISTERED No. 19700101 STATE OF INDIANA PROFESSIONAL ENGINEER

Project No. 2024.012
Project Date SEPTEMBER 1, 2026
Produced Author
Revision Date

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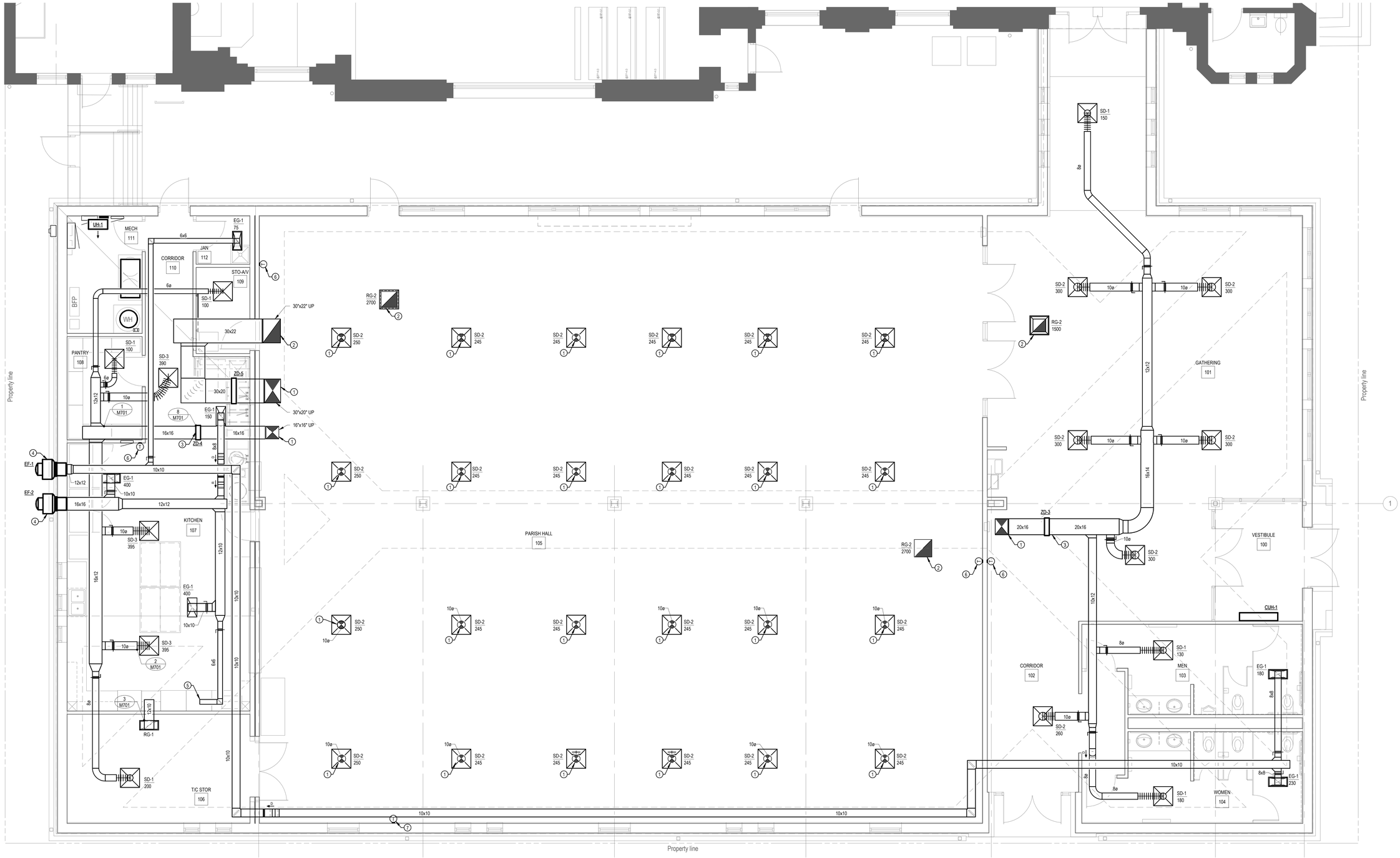
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New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

MECHANICAL / PLUMBING SYMBOLS AND ABBREVIATIONS

M001

PLAN NOTES:

1. SUPPLY UP.
2. RETURN UP.
3. ZONE DAMPER.
4. SIDEWALL MOUNTED EXHAUST FAN.
5. CONNECT EXHAUST DUCT TO EXHAUST HOOD. BALANCE DAMPER TO 100 CFM.
6. ROOM SENSOR, TYP.
7. MASTER RTU THERMOSTAT.



1 MECHANICAL PLAN
1/4" = 1'-0"

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Project No. 2024.012
Project Date SEPTEMBER 1, 2026
Produced AKE
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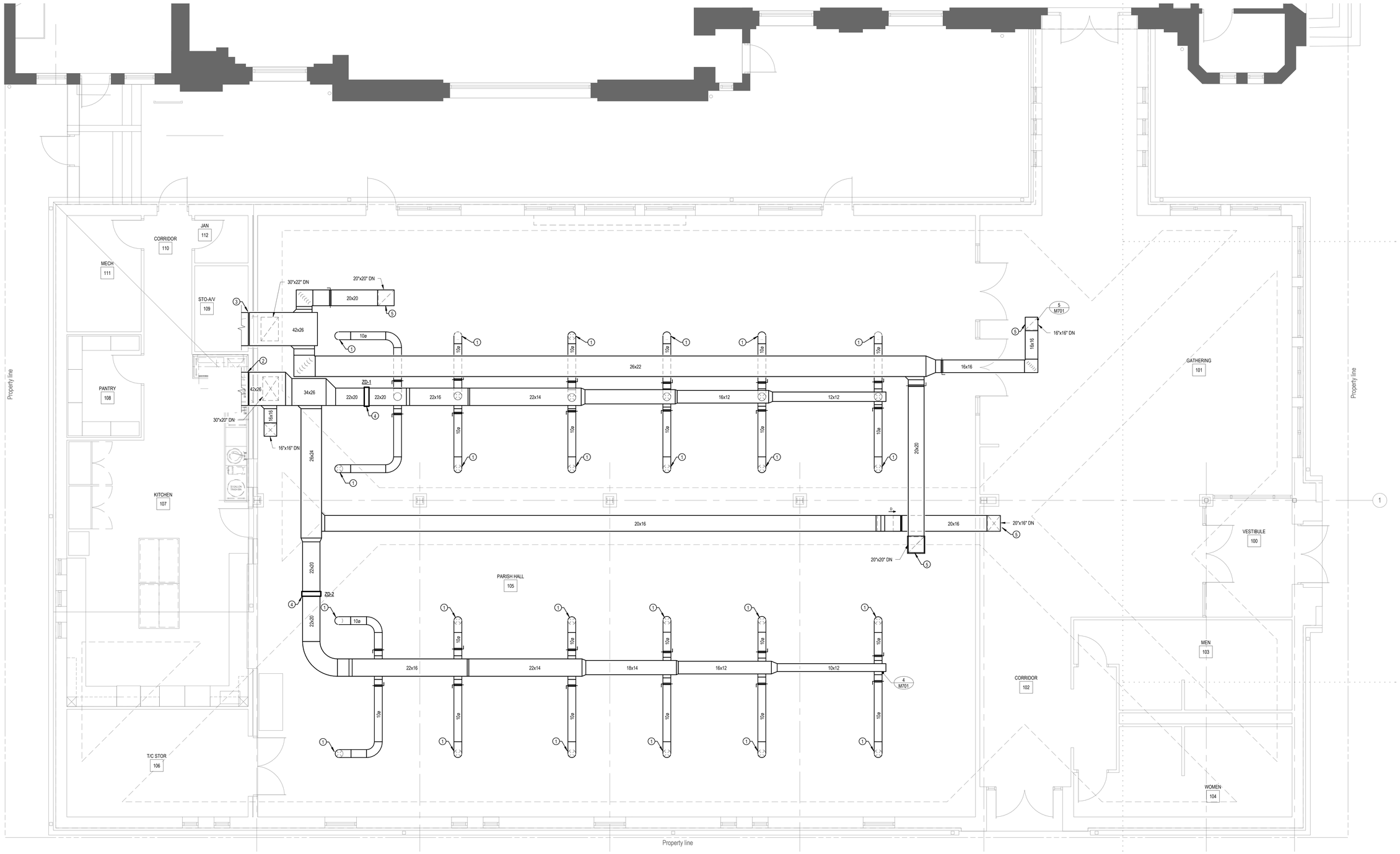
MECHANICAL PLAN

NORTH

M201

PLAN NOTES:

1. RIGID ROUND DUCT DOWN THROUGH HARD LID,TYP.
2. HORIZONTAL SUPPLY MAIN THROUGH WALL.
3. HORIZONTAL RETURN MAIN THROUGH WALL.
4. ZONE DAMPER, TYP.
5. RIGID RECTANGULAR DUCT DOWN THORUGH HARD LID, TYP.



1 ATTIC MECHANICAL PLAN
1/4" = 1'-0"

NORTH

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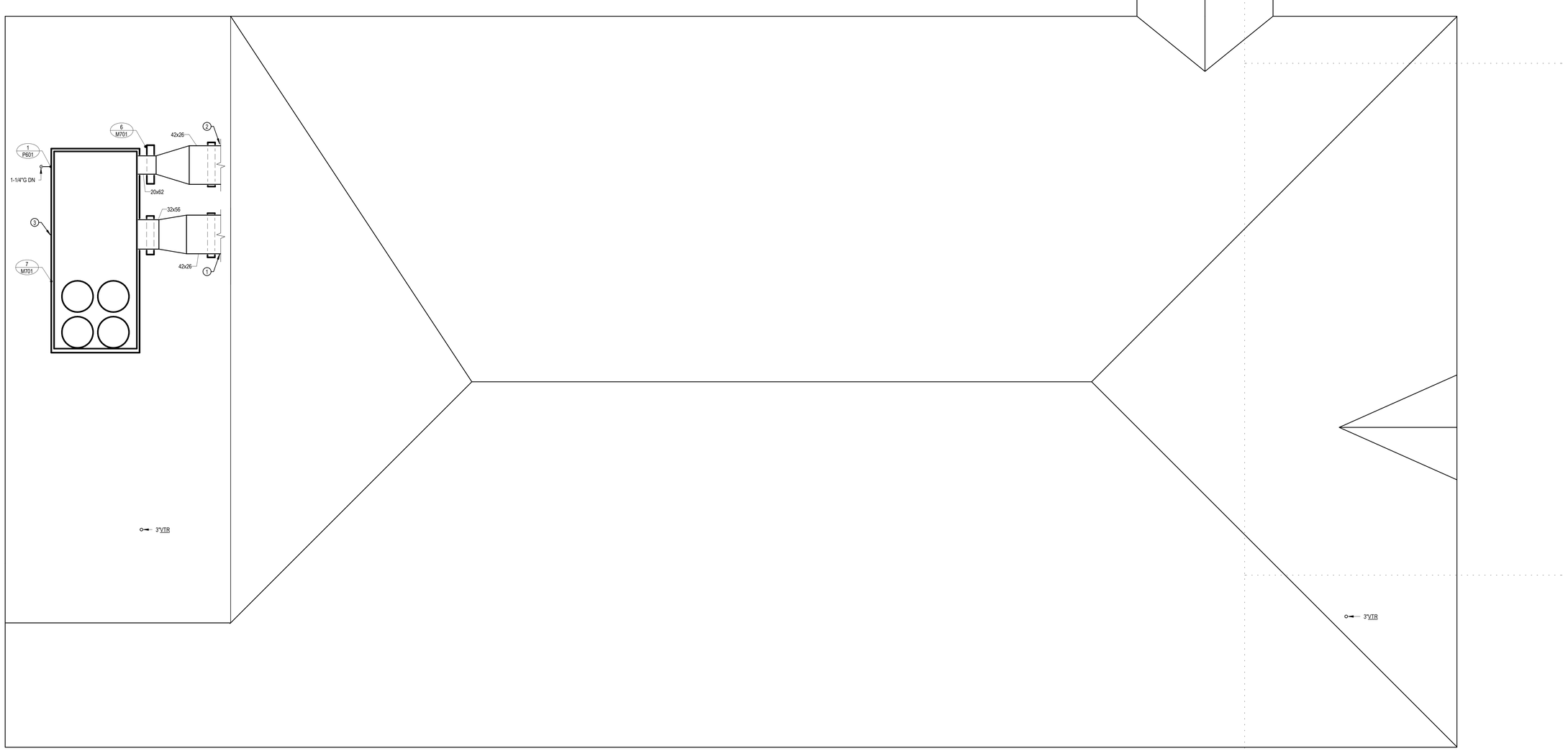
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ATTIC MECHANICAL PLAN

M202

PLAN NOTES:

1. HORIZONTAL SUPPLY MAIN THROUGH WALL.
2. HORIZONTAL RETURN MAIN THROUGH WALL.
3. ROOF MOUNTED AIR HANDLING UNIT ON 18" CURB.



1 ROOF MECHANICAL PLAN
1/4" = 1'-0"

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ROOF MECHANICAL PLAN

NORTH

M203

PACKAGED ROOFTOP UNIT SCHEDULE

	PHYSICAL DATA				SUPPLY FAN DATA							RETURN FAN DATA					DX COOLING COIL							CONDENSING DATA			HEATING DATA							ELECTRICAL DATA								
																												NATURAL GAS HEATING DATA																
TAG	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	TOTAL AIRFLOW (CFM)	DRIVE TYPE	OUTSIDE AIRFLOW (CFM)	ESP (IN WG)	MOTOR SIZE (HP/FAN)	BRAKE HP	FAN SPEED (RPM)	TYPE	AIRFLOW	ESP (IN WG)	MOTOR SIZE (HP)	SPEED (RPM)	AMBIENT DB (°F)	EAT DB (°F)	EAT WB (°F)	UNIT LAT DB (°F)	UNIT LAT WB (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	QUANTITY	REFRFRIGERANT	NUMBER OF FANS	AIRFLOW (CFM)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	MODULATION	FILTERS	MCA	MOP	VOLTAGE	PHASE	HERTZ	MANUFACTURER	MODEL	REMARKS
RTU-1	218"	90"	76"	5,238	9,800	BELT	2,450	2.0	15.0	8.59	1,066	MODULATING	9,800	0.20	1	1,131	95°	80.0°	66.4°	60.2°	57.0°	315.5	36.62	2 CIRCUITS	R-454B	4	9,800	620	502	47.5°	94.9°	2 STAGE	2" - MERV 8	183.9	225	208	3	60	JOHNSON CONTROLS	VH27S3DX	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

REMARKS:
1. PROVIDE UNIT WITH POWERED EXHAUST.
2. PROVIDE WITH 4-STAGE COOLING.
3. PROVIDE WITH 18" ROOF CURB.
4. PROVIDE WITH MODULATING HOT GAS REHEAT.
5. HORIZONTAL SUPPLY AND RETURN CONNECTIONS.
6. PROVIDE WITH DISCHARGE AIR, RETURN AIR, AND OUTDOOR AIR TEMPERATURE SENSORS.
7. PROVIDE WITH BACNET INTERFACE.
8. POWERED CONVENIENCE OUTLET.
9. DOUBLE WALL CONSTUCTION.
10. STAINLESS STEEL DRAIN PAN.

FAN SCHEDULE

									MOTOR DATA				ELECTRICAL DATA							
MARK	LOCATION	SERVICE	CFM	TSP (IN WG)	FAN TYPE	DRIVE TYPE	SONES	INLET dBA	BHP	RPM	EFFICIENCY (%)	WEIGHT	AMPS	MCA	MOP	VOLTAGE	PHASE	MANUFACTURER	MODEL	REMARKS
EF-1	KITCHEN 107	EF-1	485	0.75"	UPBLAST / CENTRIFUGAL	DIRECT	7.8	55	0.13	1,725	47	45	2.85	4	15	115	1	GREENHECK	CUE-099-VG	1, 2, 3, 4, 5, 6
EF-2	KITCHEN 107	EF-2	1,000	0.5"	UPBLAST / CENTRIFUGAL	DIRECT	10.2	60	0.19	1,271	51	57	3.5	4	15	115	1	GREENHECK	CUE-120-VG	1, 2, 3, 4, 5, 6

REMARKS:
1. FURNISH WITH SPEED CONTROL.
2. FURNISH WITH MOUNTED AND WIRED DISCONNECT.
3. FURNISH WITH GRAVITY BACKDRAFT DAMPER.
4. PROVIDE WITH ELECTRICALLY COMMUTATED MOTOR.
5. FURNISH UNIT CONFIGURED FOR SIDEWALL INSTALLATION AND WALL BRACKET.
6. INTERLOCK FAN WITH RTU-1.

ELECTRIC WALL HEATER SCHEDULE

					ELECTRICAL DATA					
TAG	LOCATION	HEATING CAPACITY (KW)	CFM	FILTER	AMPS	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
CUH-1	VESTIBULE 100	5.0	250 / 200	WASHABLE	15	208	3	MARLEY	CUS935	1, 2, 3, 4, 5

REMARKS:
1. FURNISH WITH INTEGRAL THERMOSTAT.
2. FURNISH WITH INTEGRAL DISCONNECT.
3. PROVIDE UNITS WITH BOTTOM INLET AND FRONT OUTLET.
4. EXPOSED, WALL MOUNTED. PROVIDE WITH WALL MOUNTING KIT.
5. ARCHITECT TO DETERMINE COLOR OF UNITS.

ELECTRIC UNIT HEATER SCHEDULE

				ELECTRICAL DATA					
TAG	LOCATION	HEATING CAPACITY (KW)	CFM	AMPS	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
UH-1	MECH 111	3.7	350	18	208	1	MARLEY	MUH05-21	1, 2, 3, 4

REMARKS:
1. FURNISH WITH INTEGRAL THERMOSTAT.
2. FURNISH WITH INTEGRAL DISCONNECT.
3. PROVIDE WITH WALL- MOUNTING BRACKETS.
4. FURNISH WITH LOW VOLTAGE CONTROL TRANSFORMER AND CONTACT.

ZONE DAMPER SCHEDULE

TAG	DUCT SIZE (IN)	MAX CFM	MIN CFM	APD (IN WG)	MANUFACTURER	MODEL	REMARKS
ZD-1	22 x 20	2,950	1,500	0.10	JOHNSON CONTROLS	VD-1600	-
ZD-2	22 x 20	2,950	1,500	0.10	JOHNSON CONTROLS	VD-1600	-
ZD-3	20 x 16	2,200	1,100	0.10	JOHNSON CONTROLS	VD-1600	-
ZD-4	16 x 16	1,580	750	0.10	JOHNSON CONTROLS	VD-1600	-
ZD-5	30 x 20	4,950	0	0.10	JOHNSON CONTROLS	VD-1600	-

REMARKS:
1. -

GRILLE/REGISTER AND DIFFUSER SCHEDULE

TAG	FACE SIZE (IN)	SQUARE NECK SIZE (IN)	ROUND NECK SIZE (IN)	MAX CFM	MAX NC (AT MAX CFM)	MATERIAL	FINISH	TYPE	MANUFACTURER	MODEL	REMARKS
EG-1	24 x 12	22 x 10	-	1,500	25	ALUMINUM	WHITE	EGGCRATE	PRICE	80	1
RG-1	24 x 12	22 x 10	-	1,499	25	ALUMINUM	WHITE	EGGCRATE	PRICE	80	1
RG-2	24 x 24	22 x 22	-	2,800	25	ALUMINUM	WHITE	EGGCRATE	PRICE	80	1
SD-1	24 x 24	-	6 Ø	210	25	STEEL	WHITE	PLAQUE	PRICE	SPD	-
SD-2	24 x 24	-	8 Ø	330	25	STEEL	WHITE	PLAQUE	PRICE	SPD	-
SD-3	24 x 24	-	10 Ø	475	25	STEEL	WHITE	PLAQUE	PRICE	SPD	-

REMARKS:
1. FURNISH WITH 1/2"x1/2"x1/2" ALUMINUM CORE.

GENERAL GRILLE,REGISTER, AND DIFFUSER NOTES:
1. WHERE DIFFUSER/GRILLE IS INSTALLED IN LAY-IN CEILINGS, PROVIDE LAY-IN CEILING BORDER WITH A 24"x24" OR A 24"x12" PANEL AS REQUIRED TO MATCH SIZE SCHEDULED.
2. WHERE GRILLE OR DIFFUSER IS INSTALLED IN A HARD CEILING OR GYP. BOARD WALL, PROVIDE DRYWALL BORDER.
3. ROUND DUCT RUNOUT SIZES TO DIFFUSERS SHALL MATCH ROUND NECK SIZE, UNLESS OTHERWISE NOTED.
4. PROVIDE BLACKOUT PANELS ON TRANSFER GRILLES.

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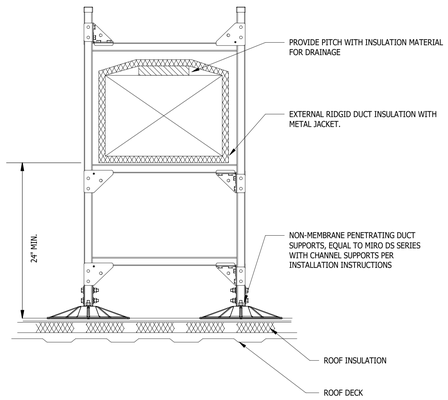
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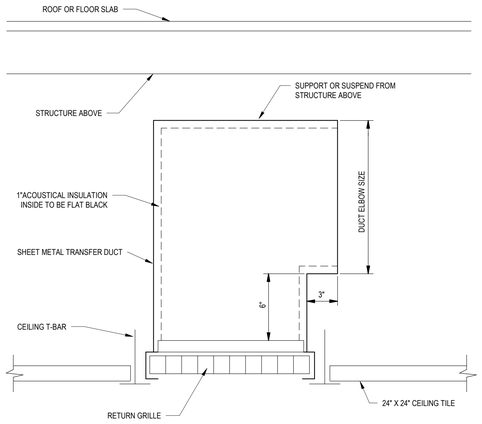
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MECHANICAL SCHEDULES

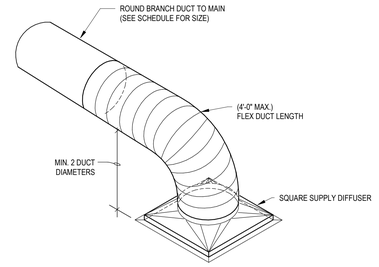
M601



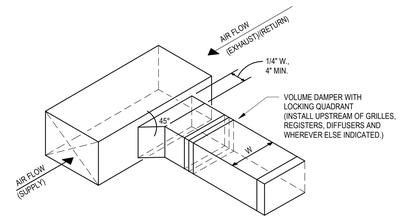
6 ROOF DUCT SUPPORT (NON ROOF PENETRATING) DETAIL
NO SCALE



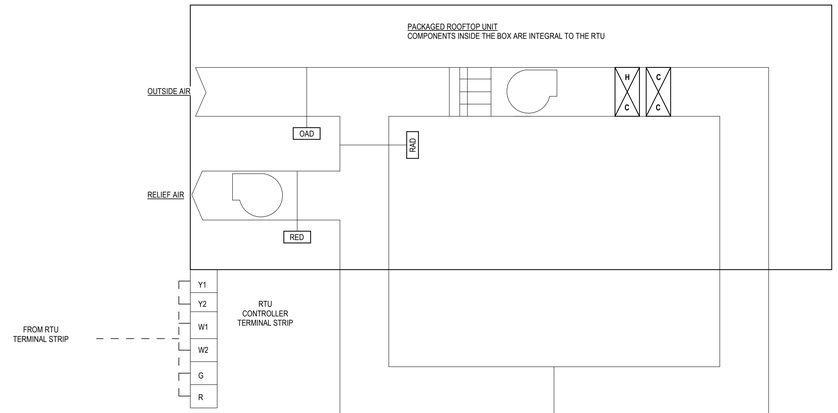
3 PLENUM RETURN TRANSFER DUCT DETAIL
NO SCALE



2 SUPPLY DIFFUSER DETAIL
1/8" = 1'-0"



1 BRANCH DUCT TAKE-OFF DETAIL
NO SCALE



24VAC — 24 V POWER WIRING

LOW VOLTAGE SIGNAL WIRING

TWISTED PAIR COMMUNICATION WIRING

NOTE: EACH VVT CONTROL MANUFACTURER REQUIRES MANUFACTURER SPECIFIC COMPONENTS AND WIRING REQUIREMENTS. PROVIDE ALL HARDWARE, SOFTWARE, THERMOSTATS, WIRING, COMMUNICATION WIRING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. SYSTEMS THAT UTILIZE WIRELESS COMMUNICATION TO COMMUNICATE BETWEEN SYSTEM COMPONENTS ARE ACCEPTABLE.

THE SYSTEM CONTROLLER SHALL HAVE A BACNET INTERFACE TO BE VIEWABLE VIA A BMS SYSTEM AT SOME POINT IN THE FUTURE.

THE DIAGRAM SHOWN IS BASED ON ZONEX GEN V. OTHER ACCEPTABLE MANUFACTURERS ARE YORK/JOHNSON (SKY Q) AND CARRIER.

PROVIDE A COMPLETE SYSTEMS SUBMITTAL FOR APPROVAL PRIOR TO ORDERING.

VVT CONTROL SEQUENCE OF OPERATION

MODE CONTROL

1. PROVIDE AN OCCUPIED/UNOCCUPIED MODE AS SET THROUGH THE MASTER THERMOSTAT AND HELD BY THE VVT SYSTEM CONTROLLER. PROVIDE AN OVERRIDE BUTTON ON EACH THERMOSTAT TO OVERRIDE OCCUPANCY MODE FOR A MINIMUM OF TWO HOURS WHEN ENGAGED.
   A. OCCUPIED MODE: THE RTU FAN SHALL RUN CONTINUOUSLY. THE VVT SYSTEM SHALL CONTROL THE UNIT COOLING/HEATING SWITCHOVER AND CYCLING TO MAINTAIN THE MOST DEMANDING SPACE TEMPERATURE.
   B. UNOCCUPIED MODE: THE RTU FAN SHALL CYCLE WITH LOAD. THE VVT SYSTEM SHALL CONTROL THE UNIT COOLING/HEATING SWITCHOVER AND CYCLING TO MAINTAIN THE MOST DEMANDING SPACE TEMPERATURE.
   C. ECONOMIZER CONTROL AT THE RTU SHALL BE CONTROLLED SEPARATELY FROM THE VVT SYSTEM BY THE INTEGRAL RTU ECONOMIZER CONTROLLER.

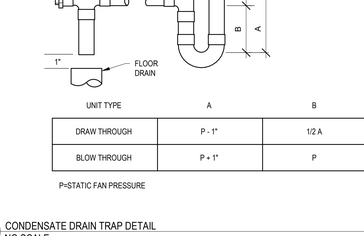
ZONE CONTROL

1. THE VVT SYSTEM SHALL COMMUNICATE THE CURRENT MODE OF CONTROL WITH EACH THERMOSTAT (HEATING/COOLING).
   A. COOLING MODE: EACH ZONE DAMPER SHALL MODULATE OPEN AS SPACE TEMPERATURE INCREASES ABOVE SETPOINT.
      a. MAINTAIN A MINIMUM DAMPER POSITION SET BY BALANCER EQUAL TO THE SCHEDULED MINIMUM CFM.
   B. HEATING MODE: EACH ZONE DAMPER SHALL MODULATE CLOSED AS SPACE TEMPERATURE INCREASES ABOVE SETPOINT.
      a. MAINTAIN A MINIMUM DAMPER POSITION SET BY BALANCER EQUAL TO THE SCHEDULED MINIMUM CFM.

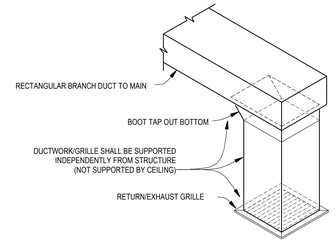
BYPASS DAMPER CONTROL

1. THE VVT SYSTEM SHALL MODULATE THE BYPASS DAMPER BASED ON THE DISCHARGE AIR STATIC PRESSURE SENSOR TO MAINTAIN CONSTANT RTU FLOW.

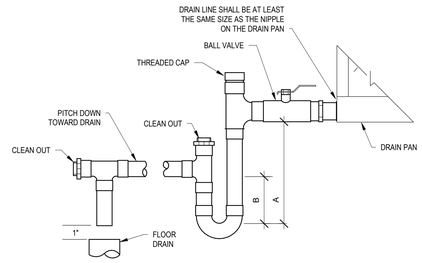
8 VVT CONTROL SCHEMATIC
NO SCALE



4 ROUND DUCT TAKE-OFF DETAIL
NO SCALE



5 RETURN/EXHAUST GRILLE DETAIL
NO SCALE



UNIT TYPE	A	B
DRAW THROUGH	P - 1"	1/2 A
BLOW THROUGH	P + 1"	P

P=STATIC FAN PRESSURE

7 CONDENSATE DRAIN TRAP DETAIL
NO SCALE

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MECHANICAL DETAILS

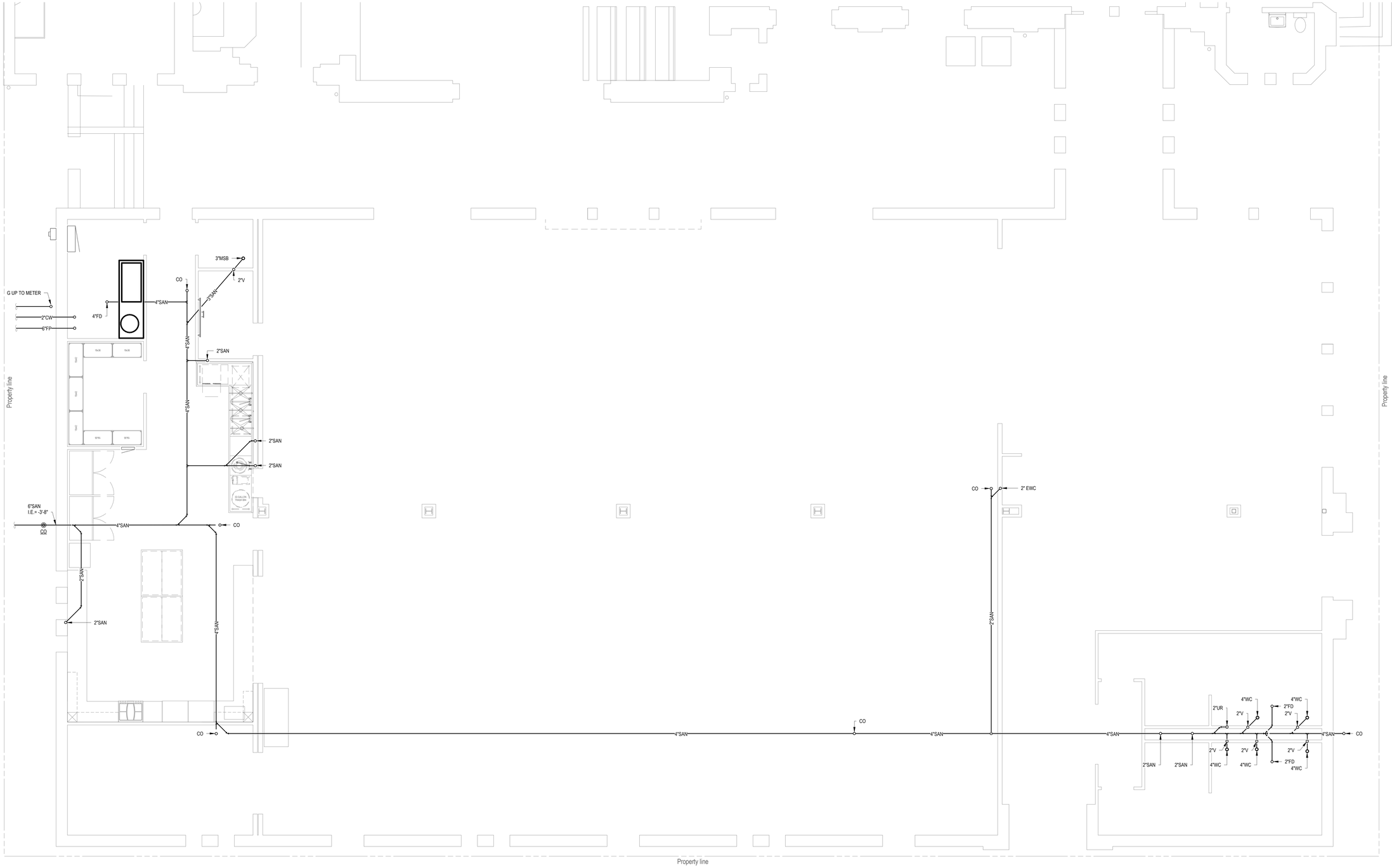
M701

GENERAL DEMOLITION NOTES:

1. PRIOR TO ANY DEMOLITION, THE TEST AND BALANCE CONTRACTOR IS TO ESTABLISH THE CURRENT MAXIMUM AIRFLOW RATES AT ALL AIR TERMINAL OUTLETS AND INLETS. SUBMIT REPORT TO THE ENGINEER OF RECORD FOR REVIEW.
2. CONTRACTOR SHALL REMOVE AND RE-INSTALL CEILINGS/CEILING TILES AS NECESSARY TO PROVIDE THE WORK INDICATED. PROTECT EXISTING TILES DURING CONSTRUCTION AND REPLACE TILES THAT ARE DAMAGED DURING CONSTRUCTION.
3. CONTRACTOR SHALL CUT AND PATCH EXISTING CONSTRUCTION AS NECESSARY TO PROVIDE THE WORK INDICATED.

DEMOLITION NOTES: ◯

1. -
2.



1 UNDERFLOOR PLUMBING PLAN
1/4" = 1'-0"

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UNDERFLOOR PLUMBING PLAN

P200

KITCHEN GENERAL NOTES:

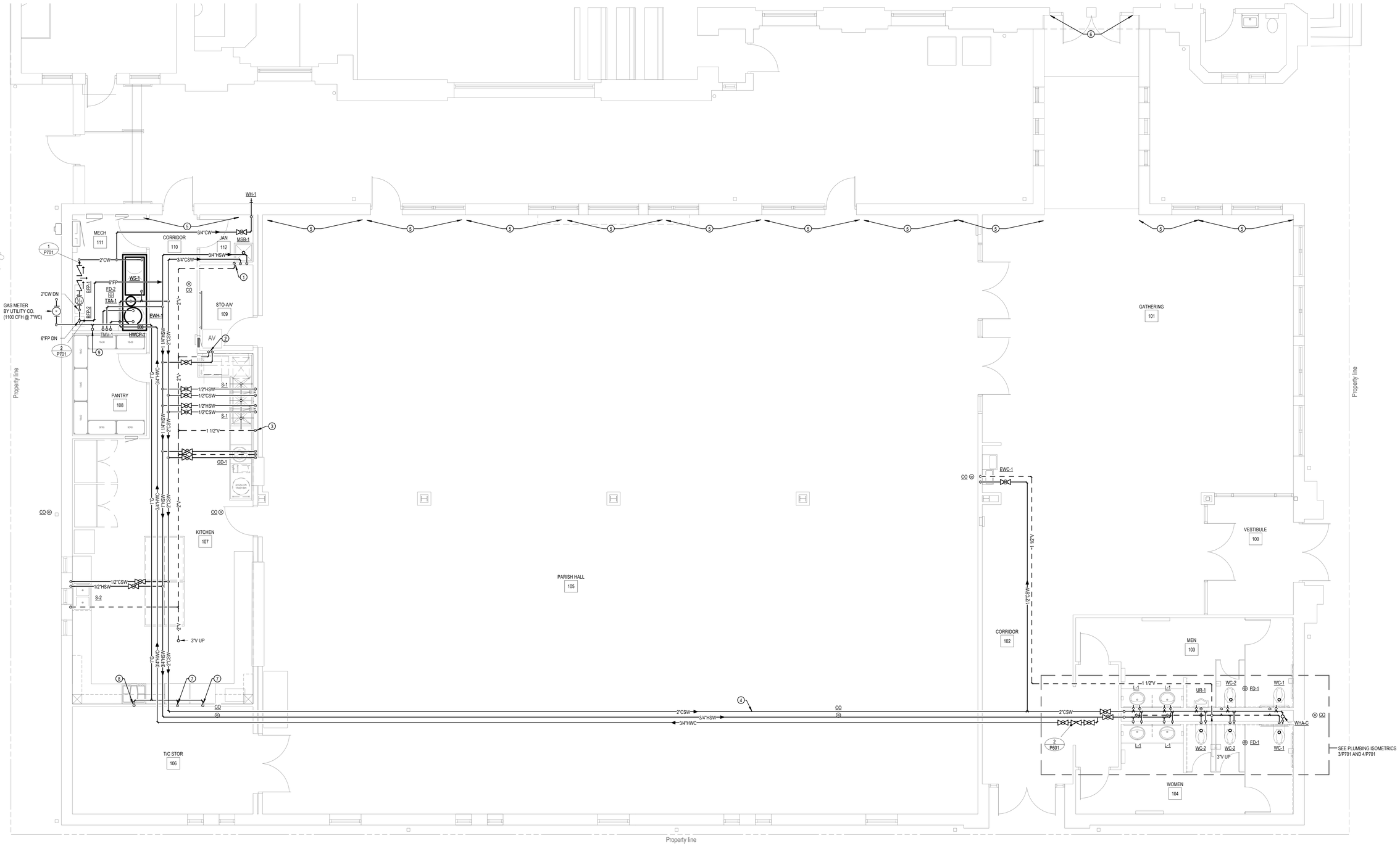
A. ROUGH-IN AND CONNECT PIPING TO EQUIPMENT. VERIFY EXACT LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR AND EQUIPMENT SHOP DRAWINGS.
B. RECEIVE AND INSTALL ALL KITCHEN EQUIPMENT CONTRACTOR FURNISHED FAUCETS, MIXING VALVES, VACUUM BREAKERS, SOLENDOID VALVES, CHECK VALVES, PRV'S, STRAINERS, ETC. SEE KITCHEN EQUIPMENT DRAWINGS.
C. PROVIDE ALL PIPING, VALVES, SUPPLIES, VENTS, TRAPS, ETC. TO MAKE FINAL CONNECTIONS TO EQUIPMENT.
D. PROVIDE ALL INDIRECT AND DIRECT WASTE AND DRAIN LINES FROM EQUIPMENT TO DIRECTLY ABOVE FLOOR DRAINS. EXPOSED PIPING AND FITTINGS IN KITCHEN AREA TO BE CHROME PLATED OR STAINLESS STEEL.
E. PROVIDE ALL WATER AND WASTE SERVICE TO THE POINT OF ROUGH-IN AS SHOWN ON PLAN. ROUGH-IN OUTLETS TO STUB 4" OUT OF WALL AT HEIGHT INDICATED FROM FINISHED FLOOR TO CENTER LINE OF OUTLET. FLOOR ROUGH-INS TO STUB UP 4" ABOVE FINISHED FLOOR OR CURB. ALL FLOOR OPENINGS ARE TO BE SEALED WATERTIGHT.
F. PROVIDE PRESSURE REDUCING AND / OR REGULATION VALVES FOR THE DISHWASHER AND AS OTHERWISE NOTED, IN KITCHEN AREAS.
G. REFER TO KITCHEN EQUIPMENT DRAWINGS AND SPECIFICATIONS FOR FURTHER WORK AND REQUIREMENTS.
H. PROVIDE INSULATION ON ALL HOT WATER AND CONDENSATE LINES IN THE KITCHEN.
I. INTERCONNECT DISHMACHINE WITH BOOSTER HEATER AND WATER TYPE VENTILATORS WITH CONTROL PANELS AS PER MANUFACTURERS INSTRUCTIONS.
J. ALL VENT PIPING IS TO BE CONCEALED IN WALLS OR COLUMN CHASES. USE LOOP VENTS FOR ISLAND FIXTURES.
K. ALL LINES ROUTED THRU EQUIPMENT SHALL NOT INTERFERE WITH INTENDED USE OR SERVICING OF EQUIPMENT.

GENERAL NOTES:

A. REFER TO SHEET M001 FOR GENERAL PLUMBING AND FIRE PROTECTION NOTES.
B. THIS FACILITY IS TO BE A FULLY SPRINKLED BUILDING. AS PART OF THIS PROJECT, CONTRACTOR SHALL PROVIDE ADEQUATE COVERAGE OF THE SPACE IN COMPLIANCE WITH NFPA-13. CONTRACTOR SHALL BE RESPONSIBLE FOR HYDRAULIC CALCULATIONS AND FIRE PROTECTION DRAWINGS AND SUBMITTALS REQUIRED FOR STATE APPROVAL. REFER TO SPECIFICATIONS FOR REQUIRED HEAD TYPES. PROVIDE NEW HEADS WHERE REQUIRED TO MEET SPECIFICATION REQUIREMENTS.
C. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR FLOOR PLAN MODIFICATIONS.
D. PROVIDE ACCESS PANELS IN INACCESSIBLE CEILINGS AND WALLS WHERE REQUIRED FOR ACCESS TO VALVES, WATER HAMMER ARRESTORS, ETC.
E. ISOLATION VALVES ABOVE CEILINGS SHALL BE WITHIN 2'-0" OF THE CEILING.
F. SEE ARCHITECTURAL SERIES SHEETS FOR OCCUPANT LOAD FOR PLUMBING FIXTURES.

PLAN NOTES: ◯

1. 2" V DOWN.
2. 1/2" HSW AND 1-1/2" V, 2" SAN DOWN.
3. COMBINE SANITARY FROM EACH BOWL TOGETHER AND ROUTE TO 2" SAN DOWN IN WALL. 1-1/2" V.
4. ROUTE DOMESTIC WATER PIPING IN THE CONDITIONED SPACE, BELOW THE BUILDING INSULATION.
5. PROVIDE CONCENTRATED SPRINKLER HEAD LAYOUT WITH MAXIMUM 6'-0" ON CENTER ALONG THIS WALL.
6. PROVIDE CLOSE SPACED SPRINKLER HEAD COVERAGE AT THIS LOCATION TO THE CONNECTION OF THE EXISTING BUILDING.
7. 1" G DOWN IN WALL, 3/4" G TO EACH OF 2 OVENS.
8. 3/4" G DOWN IN WALL TO STOVE.
9. 1-1/4" G UP TO ROOF TOP MECHANICAL EQUIPMENT.
10. 3/4" G TO GAS WATER HEATER.



1 PLUMBING PLAN
1/4" = 1'-0"

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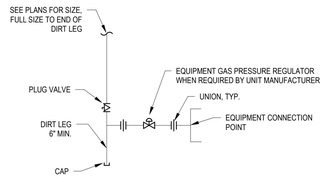
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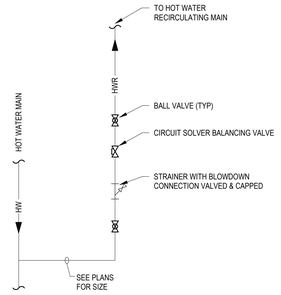
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PLUMBING PLAN

P201



1 EQUIPMENT GAS CONNECTION DETAIL
NO SCALE



2 HOT WATER RETURN BALANCING STATION DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION	FIXTURE MANUFACTURER	FIXTURE MODEL	TRIM DESCRIPTION	TRIM MANUFACTURER	TRIM MODEL	ACCESSORIES	PIPING CONNECTIONS HOT	COLD	VENT	SANITARY	REMARKS
EWC-1	WALL MOUNTED BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	LZSTL8WSLK	BUILT-IN FLOW REGULATOR, DRAIN, AND TRAP ASSEMBLY	-	-	PROVIDE CONCEALED SUPPORT CARRIER BOLTED TO FLOOR		1/2"	1-1/2"	2"	INSTALL IN COMPLIANCE WITH ADA
GD-1	GARBAGE DISPOSER WITH TWO HANDLE MIXING VALVE FAUCET, PROVIDED BY OTHERS	BY OTHERS	-	FAUCET BY OTHERS	BY OTHERS	-	PROVIDE CHROME PLATED BRASS LOOSE KEY STOPS, STAINLESS STEEL SUPPLIES, AND STOP VALVE, CHROME PLATED, CAST BRASS P-TRAP WITH CLEANOUT	1/2"	1/2"			ROUTE 1/2" CW TO DISPOSER AND DRAIN FROM DISPOSER TO P-TRAP
L-1	COUNTER UNDERMOUNT, WHITE VITREOUS CHINA 15"x12" OVAL LAVATORY	AMERICAN STANDARD	0495221	DECK MOUNTED SINGLE HANDLE 5" REACH MIXING FAUCET, 1.0 GPM	DELTA	500-DST	PROVIDE CHROME PLATED, CAST BRASS P-TRAP WITH CLEANOUT, GRID STRAINER, CHROME PLATED BRASS LOOSE KEY STOPS, STAINLESS STEEL SUPPLIES, AND STOP VALVE AND SUPPLY LINE INSULATION KIT	1/2"	1/2"	1-1/2"	1-1/2"	
MSB-1	FLOOR MOUNTED 24" X 24" X 10" HIGH IMPACT RESISTANT MOP BASIN WITH STAINLESS STEEL DRAIN	MUSTEE	63M	WALL MOUNTED TWO HANDLE MIXING FAUCET, CHROME PLATED, 10 1/2" RIGID SPOUT WITH INTEGRAL VACUUM BREAKER AND TOP WALL BRACE, 4"BLADE HANDLES AND INTEGRAL STOPS	DELTA	28C2384	PROVIDE STAINLESS STEEL BUMPER GUARDS ON EXPOSED SIDES, WALL GUARDS, MOP HANGER, HOSE AND HOSE BRACKET	3/4"	3/4"	2"	3"	CAULK BETWEEN MOP BASIN AND WALL WITH SILICONE BASED CAULK
S-1	FREE-STANDING, 16 GAUGE STAINLESS STEEL, THREE COMPARTMENT SINK WITH (3)TWO HANDLE MIXING VALVE FAUCETS, PROVIDED BY OTHERS	BY OTHERS	-	FAUCET BY OTHERS	BY OTHERS	-	PROVIDE CHROME PLATED BRASS LOOSE KEY STOPS, STAINLESS STEEL SUPPLIES, AND STOP VALVE AT EACH FAUCET LOCATION	1/2"	1/2"			COMBINE DRAINS FROM EACH COMPARTMENT AND ROUTE TO GREASE INTERCEPTOR
S-2	FREE-STANDING, 16 GAUGE STAINLESS STEEL, TWO COMPARTMENT SINK WITH TWO HANDLE MIXING VALVE FAUCET AND GARBAGE DISPOSER, PROVIDED BY OTHERS	BY OTHERS	-	FAUCET BY OTHERS	BY OTHERS	-	PROVIDE CHROME PLATED BRASS LOOSE KEY STOPS, STAINLESS STEEL SUPPLIES, AND STOP VALVE, CHROME PLATED, CAST BRASS P-TRAP WITH CLEANOUT	1/2"	1/2"			ROUTE 1/2" CW TO DISPOSER AND DRAIN FROM DISPOSER TO SINK TAILPIECE
UR-1	ACCESSIBLE WALL HUNG, WHITE VITREOUS CHINA URINAL, 0.5 GPF	AMERICAN STANDARD	6590.001	MANUAL EXPOSED FLUSH VALVE, 0.5 GPF	SLOAN	186-0.5	PROVIDE CONCEALED SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES	-	3/4"	1-1/2"	3"	BOLT CARRIER SECURELY TO FLOOR
WC-1	ACCESSIBLE FLOOR MOUNTED, FLOOR DISCHARGE, WHITE VITREOUS CHINA WATER CLOSET, 1.6 GPF	AMERICAN STANDARD	3461.001	MANUAL EXPOSED FLUSH VALVE, 1.6 GPF	SLOAN	111-1.6	PROVIDE WHITE, EXTRA HEAVY DUTY OPEN FRONT INJECTION MOLDED SOLID PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGE AND STAINLESS STEEL POSTS AND NUTS. BEMIS 1655SSCT	-	1"	2"	4"	
WC-2	FLOOR MOUNTED, FLOOR DISCHARGE, WHITE VITREOUS CHINA WATER CLOSET, 1.6 GPF	AMERICAN STANDARD	2234.001	MANUAL EXPOSED FLUSH VALVE, 1.6 GPF	SLOAN	111-1.6	PROVIDE WHITE, EXTRA HEAVY DUTY OPEN FRONT INJECTION MOLDED SOLID PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGE AND STAINLESS STEEL POSTS AND NUTS. BEMIS 1655SSCT	-	1"	2"	4"	

NOTES:
1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL REQUIREMENTS, ROUGH-IN DIMENSIONS, AND COORDINATE WITH ACCESSORIES.
2. COORDINATE SINK BASINS AND DRAIN LOUTLETS WITH CASEWORK AND KNEE GUARDS. PROVIDE OFFSET TAIL PIECES AS REQUIRED TO ACCOMMODATE INSTALLATION AND COMPLY WITH ADA REQUIREMENTS.
3. COORDIANTE FLUSH VALVE INSTALLATION WITH GRAB BAR LOCATIONS.

HOT WATER CIRCULATING PUMP SCHEDULE

TAG	LOCATION	SERVICE	GPM	HEAD (FT WG)	RPM	FLANGE SIZE	ELECTRICAL DATA HP	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
HWCP-1	MECH 111	DOMESTIC HOT WATER CIRCULATING	8	12	2950	3/4"	0.125	115	1	BELL & GOSSETT	NBF-25	

NOTES:
1. PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATED IN THIS SCHEDULE.
2. PROVIDE AQUASTAT, TIMER, FLEX CONNECTORS, DISCONNECT, ECM MOTOR AND CONTROLLER.
3. ALL WETTED COMPONENTS SHALL BE NSF 61 AND NSF 372 COMPLIANT.
4. PROVIDE BACNET INTERFACE (VERIFY).

BACKFLOW PREVENTER SCHEDULE

TAG	SERVICE	TYPE	SIZE	PRESSURE DROP (PSIG)	STRAINER	MANUFACTURER	MODEL	REMARKS
BFP-1	DOMESTIC COLD WATER	REDUCED PRESSURE	2"	10	YES	WATTS	LF909	
BFP-2	FIRE PROTECTION	DOUBLE CHECK	6"	5	NO	WATTS	LF757DCDAOSY	

WATER FILTRATION SCHEDULE

TAG	LOCATION	DESCRIPTION	ELECTRICAL DATA VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
WS-1	MECH 111	WATER SOFTENER	120	1	AQUA SYSTEM	2900 500	50 GPM @ 15 PSI, PROVIDE 24" X 50" BRINE TANK

NOTES:
1. SYSTEM SHALL BE A PROGRESSIVE FLOW. PROVIDE WITH REQUIRED CONTROLS AND FLOW SENSORS FOR PROPER CYCLING OF TANKS.

ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	TANK CAPACITY (GAL)	RECOVERY @ 90° (GPH)	ELECTRICAL DATA AMPS	KW	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
EWH-1	MECH 111	55	21	4.5	4.5	240	1	A O SMITH	ENT-55	

DRAINAGE FIXTURE SCHEDULE

TAG	SIZE	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	REMARKS
CO	FULL LINE SIZE	FLOOR CLEANOUT	J.R. SMITH		
FD-1	SEE PLANS	ROUND 6" FLOOR DRAIN WITH CLEANOUT, CAST IRON BODY, NICKEL BRONZE ADJUSTABLE STRAINER AND FLASHING COLLAR	J.R. SMITH	2040T	
FD-2	SEE PLANS	SQUARE 12"X12" FLOOR DRAIN, CAST IRON DRAIN BODY WITH NICKEL BRONZE TOP, ACID RESISTANT COATED SEDIMENT BUCKET	J.R. SMITH	3141	

NOTES:
1. COORDINATE DRAIN GRATE WITH FLOOR SLOPING AND FLOORING PATTERN FOR ALL FLOOR DRAINS. DRAIN SHALL BE SET SUCH THAT DRAIN GRATE IS FLUSH WITH FINISHED FLOOR SURFACE.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	SERVICE	LOW FLOW	HIGH FLOW	PRESSURE DROP	INLET SIZE	OUTLET SIZE	SETPOINT	MANUFACTURER	MODEL	REMARKS
TMV-1	DOMESTIC HOT WATER	0.5 GPM	10 GPM	10 PSI	1"	1"	110	POWERS	LF1170M2-US	

THERMAL EXPANSION ABSORBER SCHEDULE

TAG	SERVICE	TOTAL VOLUME	ACCEPTANCE VOLUME	DIAMETER	HEIGHT	PRE-CHARGE	SYSTEM CONNECTION	MANUFACTURER	MODEL	REMARKS
TXA-1	DOMESTIC COLD WATER	6.4 GAL	3.2 GAL	12"	14"	55 PSI	3/4"	AMTROL	ST-13C	

NOTES:
1. PRE-CHARGE 55 PSIG.
2. PROVIDE WITH ASME RATED VESSEL
3. MOUNT ON PIPING AND SUPPORT FROM STRUCTURE.

WATER HAMMER ARRESTOR SCHEDULE

TYPE	I.P.S.	F.U. RATING	J.R. SMITH No.	JOSAM No.	ZURN No.	WATTS No.	REMARKS
WHA-A	3/4"	1-11	5005	75001A	Z1700-100	15M2-A	P.D.I. CERTIFIED
WHA-B	1"	12-32	5010	75002B	Z1700-200	15M2-B	P.D.I. CERTIFIED
WHA-C	1"	33-60	5020	75003C	Z1700-300	15M2-C	P.D.I. CERTIFIED
WHA-D	1"	61-113	5030	75004D	Z1700-400	15M2-D	P.D.I. CERTIFIED
WHA-E	1"	114-154	5040	75005E	Z1700-500	15M2-E	P.D.I. CERTIFIED
WHA-F	1"	155-330	5050	75006F	Z1700-600	15M2-F	P.D.I. CERTIFIED

NOTE: PROVIDE SHUT-OFF VALVE WITH WATER HAMMER ARRESTOR.

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ATP ENGINEERING

DAVID SHICK REGISTERED No. 19700101 STATE OF INDIANA PROFESSIONAL ENGINEER

Project No. 2024.012
Project Date SEPTEMBER 1, 2026
Produced BJB
Revision Date

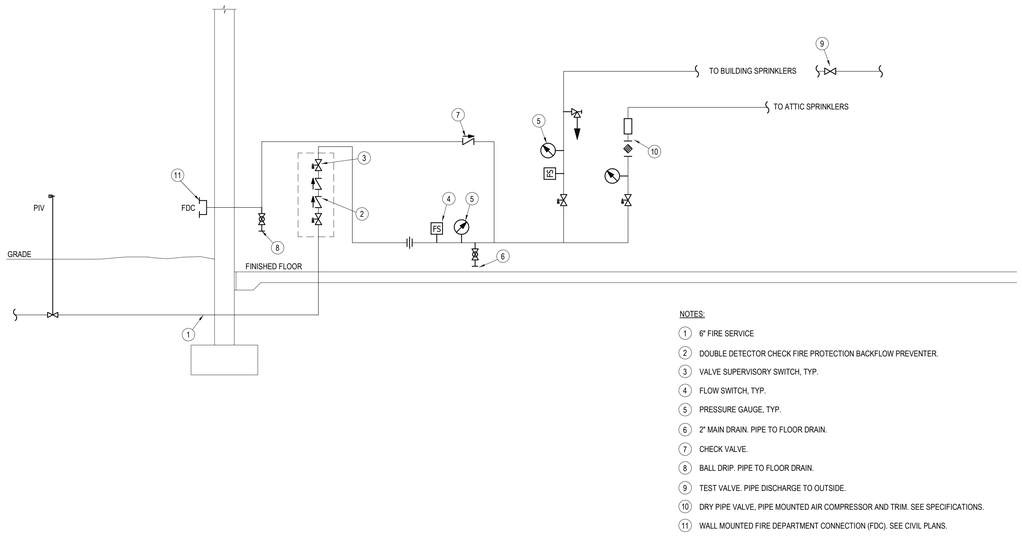
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St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

2024.012

PLUMBING SCHEDULES AND DETAILS

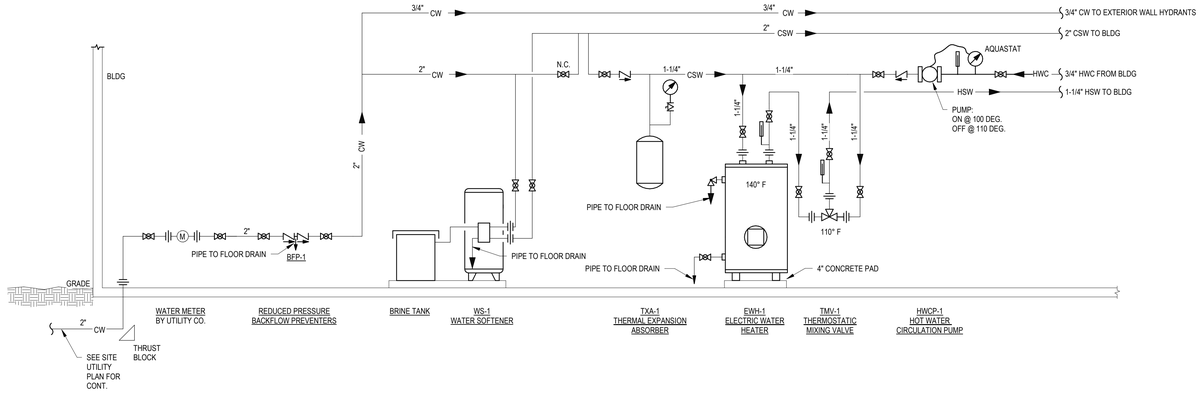
P601



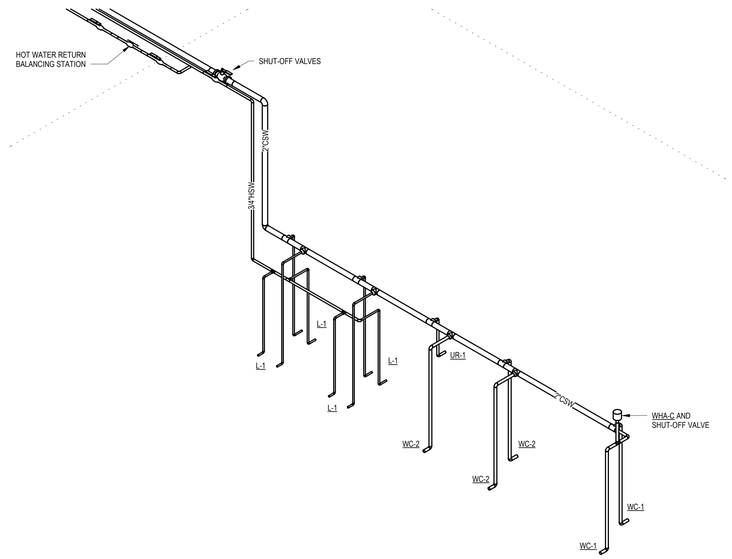
NOTES:

1. 6" FIRE SERVICE
2. DOUBLE DETECTOR CHECK FIRE PROTECTION BACKFLOW PREVENTER.
3. VALVE SUPERVISORY SWITCH, TYP.
4. FLOW SWITCH, TYP.
5. PRESSURE GAUGE, TYP.
6. 2" MAIN DRAIN. PIPE TO FLOOR DRAIN.
7. CHECK VALVE.
8. BALL DRIP. PIPE TO FLOOR DRAIN.
9. TEST VALVE. PIPE DISCHARGE TO OUTSIDE.
10. DRY PIPE VALVE, PIPE MOUNTED AIR COMPRESSOR AND TRIM. SEE SPECIFICATIONS.
11. WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC). SEE CIVIL PLANS.

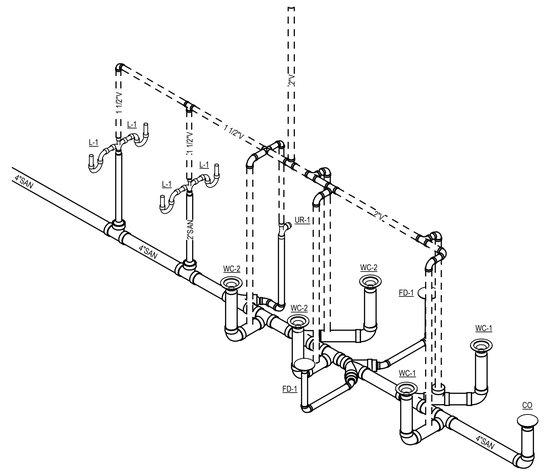
2 FIRE PROTECTION SCHEMATIC (VERTICAL BFP)
NO SCALE



1 DOMESTIC WATER FLOW DIAGRAM
NO SCALE



4 RESTROOM DOMESTIC WATER ISOMETRIC



3 RESTROOM SANITARY AND VENT ISOMETRIC

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2024.012 St. Joseph University Catholic Parish
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PLUMBING PIPING DIAGRAMS

P701

LIGHTING

SYMBOL	DESCRIPTION
	NO SHADING INDICATES NORMAL POWER
	HALF SHADED INDICATES LIFE SAFETY POWER
	FULL SHADED INDICATES EMERGENCY POWER
	24" x 48" LIGHTING FIXTURE
	24" x 24" LIGHTING FIXTURE
	12" x 48" LIGHTING FIXTURE
	12" x 12" LIGHTING FIXTURE
	4' x 96" LIGHTING FIXTURE
	4' x 48" LIGHTING FIXTURE
	4' x 36" LIGHTING FIXTURE
	4' x 24" LIGHTING FIXTURE
	6" DOWNLIGHT (ROUND AND SQUARE)
	4" DOWNLIGHT (ROUND AND SQUARE)
	WALL MOUNTED LIGHT
	CEILING FAN
	CEILING EXIT LIGHT (DUAL FACED)
	CEILING EXIT LIGHT (SINGLE FACE)
	WALL EXIT LIGHT
	WALL EXIT WITH EMERGENCY LIGHTS
	WALL EXIT WITH INTERIOR AND EXTERIOR EMERGENCY LIGHTS
	EXIT LIGHT DIRECTIONAL ARROWS
	WALL EMERGENCY BATTERY LIGHT
	CEILING EMERGENCY BATTERY LIGHT
	EXTERIOR WALL LIGHT (ONE HEAD)
	EXTERIOR POLE LIGHT (ONE HEAD)
	EXTERIOR POLE LIGHT (TWO HEADS)
	EXTERIOR POLE LIGHT (THREE HEADS)
	EXTERIOR POLE LIGHT (FOUR HEADS)
	EXTERIOR POLE LIGHT (POST TOP)
	EXTERIOR BOLLARD

ELECTRICAL EQUIPMENT

SYMBOL	DESCRIPTION
	PAD MOUNTED TRANSFORMER
	SUSPENDED TRANSFORMER
	DISTRIBUTION PANELBOARD
	BRANCH PANELBOARD - RECESSED MOUNT
	BRANCH PANELBOARD - SURFACE MOUNT
	DISCONNECT SWITCH - NON-FUSED
	DISCONNECT SWITCH - FUSED
	MOTOR CONTROLLER
	COMBINATION MOTOR CONTROLLER / DISCONNECT
	TELECOM TERMINAL BOARD
	GROUND BAR
J	JUNCTION OR PULL BOX
	PUSHBUTTON OR PUSH PLATE
T	ELECTRIC THERMOSTAT
	MOTOR
	MOLDED CASE CIRCUIT BREAKER
	GROUND CONNECTION
	GROUND POINT
	GROUND ROD
	GENERATOR
ATS	AUTOMATIC TRANSFER SWITCH

RACEWAY SYSTEM

SYMBOL	DESCRIPTION
FXX	FEEDER SIZE. REFER TO FEEDER SCHEDULE FOR ADDITIONAL INFORMATION
	PHASE CONDUCTORS
	NEUTRAL
	GROUND

ELECTRICAL SWITCHES

SYMBOL	DESCRIPTION
$	TOGGLE SWITCH - 20 AMP, 120/277VAC
$3	TOGGLE SWITCH - 3 WAY
$4	TOGGLE SWITCH - 4 WAY
$K	TOGGLE SWITCH - KEY OPERATED
$T	TOGGLE SWITCH - HORSE POWER RATED MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
$P	TOGGLE SWITCH - PILOT LIGHT
D	DIMMER SWITCH - 20 AMP, 120/277VAC
D3	DIMMER SWITCH - 3 WAY
D4	DIMMER SWITCH - 4 WAY
OC	WALL SWITCH OCCUPANCY SENSOR - 1 BUTTON CONTROL
OC2	WALL SWITCH OCCUPANCY SENSOR - 2 BUTTON CONTROL
OCR	WALL SWITCH OCCUPANCY SENSOR - DUAL RELAY FOR EXHAUST FAN CONTROL
OCD	WALL SWITCH OCCUPANCY SENSOR / DIMMER
VS1	WALL VACANCY SENSOR - 1 BUTTON CONTROL
VS2	WALL VACANCY SENSOR - 2 BUTTON CONTROL
LC	LOW VOLTAGE LIGHTING CONTROLLER
TC	TIMECLOCK
OC	CEILING OCCUPANCY SENSOR
PC	PHOTO CELL

INFORMATION SYSTEMS

SYMBOL	DESCRIPTION
K	DATA OUTLET
K W	DATA OUTLET - WALL PHONE
WAP	DATA ONLY OUTLET - WIRELESS ACCESS POINT
WAP	CEILING DATA OUTLET - WIRELESS ACCESS POINT
K	FLOOR BOX - DATA ONLY
	"X" DENOTES AS FOLLOWS: # - QUANTITY OF JACK(S) AND CABLE(S) R - ROUGH-IN ONLY
	TELECOMMUNICATIONS EQUIPMENT RACK
TV	TV SYSTEM OUTLET
AV	AUDIO/VISUAL CONTROLLER
C	CLOCK SYSTEM OUTLET
M	MICROPHONE INPUT RECEPTACLE - WALL MOUNTED
M	MICROPHONE INPUT RECEPTACLE - CEILING MOUNTED
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
V	VOLUME CONTROL

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
M	MANUAL SENDING STATION
SD	WALL SMOKE DETECTOR
SD	WALL SMOKE DETECTOR WITH SOUNDER BASE
SD	CEILING SMOKE DETECTOR
SD	CEILING SMOKE DETECTOR WITH SOUNDER BASE
DX X	AUTOMATIC DUCT DETECTOR ("X" DENOTES AS FOLLOWS) NONE - PHOTOELECTRIC TYPE S - SUPPLY R - RETURN
RT	REMOTE DETECTOR TEST STATION
RI	REMOTE DETECTOR INDICATOR STATION
HD	HEAT DETECTOR
FD	FLAME DETECTOR
BD	BEAM DETECTOR
H	WALL HORN ONLY
H	WALL HORN STROBE
H	CEILING HORN ONLY
H	CEILING HORN STROBE
S	WALL SPEAKER ONLY
S	WALL SPEAKER STROBE
S	CEILING SPEAKER STROBE
V	WALL VISUAL ONLY
V	CEILING VISUAL ONLY
AR	FIRE ALARM ADDRESSABLE RELAY
J	FIREMANS JACK
DU	DOOR UNLOCK
DR	DOOR RELEASE
FS	SPRINKLER SYSTEM FLOW SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
PIV	POST INDICATOR VALVE
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
NAC	FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL

DOOR SECURITY SYSTEM

SYMBOL	DESCRIPTION
CCTV	CCTV COAXIAL CABLE OUTLET AND POWER OUTLET
MTV	CCTV MONITOR OUTLET
	DOOR BUZZER
DR	ELECTRIC DOOR OPENER
ES	ELECTRIC DOOR STRIKE
IC	INTERCOM UNIT FLUSH MTD.
MI	MASTER INTERCOM AND DIRECTORY UNIT
DS	SECURITY DUTY STATION
SS	SECURITY STAFF STATION
MI	SECURITY DOOR ALARM MAGNETIC LOCK
CR	SECURITY CARD READER
MD	MOTION DETECTOR
DC	SECURITY DOOR CONTACTS
PB	SECURITY EXIT PUSH BUTTON
SM	SECURITY MONITOR
DE	SECURITY DOOR EGRESS
K	SECURITY KEYPAD
BS	BIOSCAN ACCESS PAD
	CAMERA
SCP	SECURITY CONTROL PANEL
R	DOOR RELEASE
A	DURESS ALARM BUTTON

ELECTRICAL RECEPTACLES

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	DUPLEX GFCI RECEPTACLE - NORMAL POWER CIRCUIT
	DUPLEX GFCI RECEPTACLE - EMERGENCY POWER CIRCUIT
	QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	QUADRAPLEX GFCI RECEPTACLE - NORMAL POWER CIRCUIT
	QUADRAPLEX GFCI RECEPTACLE - EMERGENCY POWER CIRCUIT
	SIMPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	SIMPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	SPECIAL RECEPTACLE - NORMAL POWER CIRCUIT
	SPECIAL RECEPTACLE - EMERGENCY POWER CIRCUIT
	DUPLEX RECEPTACLE - TOP SWITCHED

RECEPTACLE LEGEND

	RECEPTACLE ABOVE COUNTERTOP AT +2" ABOVE BACKSPLASH TO BOTTOM OF DEVICE. COORDINATE WITH CASEWORK TO BE INSTALLED.
	RECEPTACLE INSTALLED BELOW COUNTERTOP AT +18" A.F.F. COORDINATE WITH CASEWORK TO BE INSTALLED.
X	"X" DENOTES AS FOLLOWS: NONE - 20 AMP, 125VAC HM - 20 AMP, 125VAC, HORIZONTAL MOUNT TYPE IG - 20 AMP, 125VAC, ISOLATED GROUND TYPE USB - 20 AMP, 125VAC, INTEGRAL USB CHARGING PORTS S - 20 AMP, 125VAC, SURGE GUARD PROTECTION TYPE ST - 20 AMP, 125VAC, SAFETY TYPE WP - 20 AMP, 125VAC, WEATHERPROOF TYPE
	CEILING DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	CEILING DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	CEILING QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	CEILING QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	FLOOR BOX DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	FLOOR BOX QUADRAPLEX RECEPT. - EMERGENCY POWER CIRCUIT
	FLOOR BOX BLANK
	FLOOR BOX POWER AND TELECOM
	MULTI-OUTLET ASSEMBLY (POWER AND/OR TELECOM)

LINE SYMBOLS

	LIGHT/SCREENED SOLID OR DASHED LINES INDICATE EXISTING TO REMAIN
	HEAVY DASHED LINES INDICATE EXISTING TO BE REMOVED
	HEAVY CONTINUOUS LINES INDICATE NEW WORK

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A or AMP	AMPERE	IC	INTERCOMMUNICATION
AC	ALTERNATING CURRENT	ID	INSIDE DIAMETER
A/C	AIR CONDITIONING	INCAN	INCANDESCENT
ACP	ACCESS PANEL	INCL	INCLUDE
ACU	AIR CONDITIONING UNIT	ISG	ISOLATED GROUND SURGE GUARD
ADD	ADDITION	JB	JUNCTION BOX
ADJ	ADJUSTABLE	JT	JOINT
AF	AMPERE FRAME	KEC	KITCHEN EQUIPMENT CONTRACTOR
AFC	ABOVE FINISHED CEILING	KT	KITCHENETTE
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AFG	ABOVE FINISHED GRADE	KVAR	KILOVOLT AMPERE REACTIVE
AHU	AIR HANDLING UNIT	KW	KILOWATT
AIC	AMPERE INTERRUPTING CAPACITY	LAB	LABORATORY
AL	ALUMINUM	LB	POUND
AM	AMMETER	LF	LINEAR FEET
AMB	AMBIENT	LOC	LOCATION
APPROX.	APPROXIMATELY	LS	LIFE SAFETY
ARCH	ARCHITECT	LT	LIGHT
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUTO	AUTOMATIC	LV	LOW VOLTAGE
AVG	AVERGE	MATV	MASTER ANTENNA TELEVISION
BC	BARE COPPER	MAX	MAXIMUM
BKR	BREAKER	MC	MECHANICAL CONTRACTOR
BHP	BRAKE HORSEPOWER	MCB	MAIN CIRCUIT BREAKER
BL	BUILDING LINE	MCC	MOTOR CONTROL CENTER
BLDG	BUILDING	MDP	MAIN DISTRIBUTION PANEL
BR	BRANCH	MECH	MECHANICAL
BTM	BOTTOM	MH	MANHOLE
C	CONDUIT	MIN	MINIMUM
°C	DEGREES CELSIUS	MISC	MISCELLANEOUS
CAB	CABINET	MLO	MAIN LUGS ONLY
CB or C/B	CIRCUIT BREAKER	MTD	MOUNTED
C/C	CENTER TO CENTER	MTG HT	MOUNTING HEIGHT
CCTV	CLOSED CIRCUIT TELEVISION	MU	MEDICINE UNIT
CKT	CIRCUIT	NL	NIGHT LIGHT
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
COL	COLUMN	OFOI	OWNER FURNISHED-OWNER INSTALLED
COMM	COMMUNICATION	OPNG	OPENING
COMP	COMPRESSOR	OPP	OPPOSITE
CONC	CONCRETE	OR	OPERATING ROOM
CONST	CONSTRUCTION	P	POLE
CONT	CONTINUOUS	PB	PUSHBUTTON
CONTR	CONTRACTOR	PBOX	PULL BOX
CR	CRITICAL	PE	PNEUMATIC ELECTRIC CONVERTER
CT	CURRENT TRANSFORMER	PF	POWER FACTOR
CU	COPPER	PH or Ø	PHASE
DB	DIRECT BURIAL	PIV	POST INDICATOR VALVE
DC	DIRECT CURRENT	PNL	PANELBOARD
DEPT	DEPARTMENT	PL	PILOT LIGHT
DF	DRINKING FOUNTAIN	PREFAB	PREFABRICATED
DIST	DISTRIBUTION	PRES	PRESSURE
DM	DEMAND METER	PT	PNEUMATIC TUBE
DO	DRAWOUT	PTS	PNEUMATIC TUBE STATION
DRS	DOCTORS	PW	PART WINDING
DWG	DRAWING	PWR	POWER
EC	ELECTRICAL CONTRACTOR	RACU	ROOM AIR CONDITIONING UNIT
EF	EXHAUST FAN	RAD	RADIATION
ELEC	ELECTRIC	RECEPT	RECEPTACLE
ELEV	ELEVATOR	REF or REFR	REFRIGERATOR
ELV	ELEVATION	REINF	REINFORCED
EMER	EMERGENCY	RGIP	REMOTE GROUND INDICATING PANEL
ENCL	ENCLOSURE	RM	ROOM
EP	ELECTRIC PNEUMATIC	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	SA	SUPPLY AIR
EWC	ELECTRIC WATER COOLER	SC	SHORT CIRCUIT
EX	EXPLOSIONPROOF	SG	SURGE GUARD PROTECTION
EXH	EXHAUST	SHT	SHEET
EXP	EXPANSION	SIG	SIGNAL
EXT	EXTERIOR	SN	SOLID NEUTRAL
°F	DEGREES FAHRENHEIT	SPEC	SPECIFICATIONS
FA	FIRE ALARM	SQ	SQUARE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SS	SAFETY SWITCH
FACP	FIRE ALARM CONTROL PANEL	SSSS	SOLID STATE SOFT START
FC	FLAT CABLE	STD	STANDARD
FCU	FAN COIL UNIT	STN	STATION
FFC	FOOD FACILITY CONTRACTOR	STR	STRUCTURAL
FFS	FOOD FACILITY SUPPLIER	SUSP	SUSPENDED
FHC	FIRE HOSE CABINET	SW	SWITCH
FIN	FINISH	SWBD	SWITCHBOARD
FIXT	FIXTURE	SWGR	SWITCHGEAR
FL	FLOOR	TCC	TEMPERATURE CONTROL CONTRACTOR
FLUOR	FLUORESCENT	TELE	TELECOMMUNICATION
FLEX-CONN	FLEXIBLE CONNECTION	TEMP	TEMPERATURE
FPC	FIRE PROTECTION CONTRACTOR	TMH	TOP OF MANHOLE
FSS	FUSED SAFETY SWITCH	TV	TELEVISION
FTG	FOOTING	TYP	TYPICAL
FVR	FILMVIEWER	UC	UNDER CARPET
FV	FULL VOLTAGE	UIC	UNDER CABINET or UNDER COUNTER
FVNR	FULL VOLTAGE NON REVERSING	UH	UNIT HEATER
G or GND	GROUND	UV	UNIT VENTILATOR
GALV	GALVANIZED	V	VOLT
GC	GENERAL CONTRACTOR	VAC	VACUUM
GEN	GENERATOR	VB	VACUUM BREAKER
GFCI	GROUND FAULT CKT. INTERRUPTER	VC	VACUUM CLEANING
GFI	GROUND FAULT INTERRUPTER	VEL	VELOCITY
GFP	GROUND FAULT PROTECTION	VFD	VARIABLE FREQUENCY DRIVE
HGT	HEIGHT	VM	VOLTMETER
HH	HANDHOLE	VOL	VOLUME
HID	HIGH INTENSITY DISCHARGE	VP	VAPORPROOF
HO	HAND OPERATED	VSD/VFC	VARIABLE SPEED DRIVE/CONTROLLER
HOA	HAND-OFF-AUTOMATIC	W	WITH
HORZ	HORIZONTAL	W/O	WITHOUT
HP	HORSEPOWER	WC	WATER COOLER
HPS	HIGH PRESSURE SODIUM	WP	WEATHERPROOF
HTR	HEATER	WTR	WATER
HV	HIGH VOLTAGE	WT	WEIGHT
HZ	HERTZ	XFMR	TRANSFORMER
		Z	IMPEDANCE

MOUNTING HEIGHTS

DEVICE	HEIGHT ABOVE FLOOR TO CENTER OF DEVICE/OUTLET
RECEPTACLES, SURFACE RACEWAY, VOICE/DATA OUTLETS, TV OUTLETS, VIDEO INPUTS AND OUTLETS,AUDIO INPUTS AND OUTLETS	18" - GENERAL AREAS 22" - MECHANICAL EQUIP ROOMS & EXTERIOR 4" - ABOVE BACKSPLASH TOP 34" - BEHIND DOMESTIC REFRIGERATORS 48" - BEHIND DOMESTIC WASHERS AND DRYERS 46" - WALL MOUNTED TELEPHONES
TOGGLE SWITCHES	46"
MANUAL PULL STATIONS	46"
FIRE ALARM NOTIFICATION APPLIANCES	82"
VOLUME CONTROLS	46"
PUSHBUTTON STATIONS	46"
SECURITY KEYPAD/CARD READER	46"
DOOR OPERATOR PUSH PAD	34"

DEVICE	HEIGHT ABOVE FLOOR TO TOP OF DEVICE/OUTLET
PANELBOARDS, DESCONNECT SWITCH, SAFETY SWITCH, MOTOR STARTER, VFD, CONRACTOR, FIRE ALARM PANEL, SECURITY PANEL	72" UNLESS OTHERWISE NOTED
TIME CLOCKS, TIME SWITCHES	66"
CLOCK, BELL, WALL SPEAKER	96" UNLESS OTHERWISE NOTED

ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT

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ATP ENGINEERING

DAVID S. SHUCK REGISTERED No. 19700101 STATE OF INDIANA PROFESSIONAL ENGINEER

Project No. 2024.012
Project Date SEPTEMBER 1, 2026
Produced bsa
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2024.012 **St. Joseph University Catholic Parish**
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

ELECTRICAL SYMBOLS AND ABBREVIATIONS

E001

PLAN NOTES

1. DISCONNECT EXISTING ELECTRICAL CIRCUITS SERVING THIS AREA. REMOVE CONDUCTORS TO SOURCE AND RELABEL BREAKER AS "SPARE".
2. EXISTING GROUND MOUNTED CONDENSING UNITS.
3. DISCONNECT AND REMOVE ANY ELECTRICAL DEVICES, RACEWAY AND CONDUCTORS IN AREA OF DEMOLITION. EXTEND EXISTING TO REMAIN CIRCUITS AS NECESSARY.

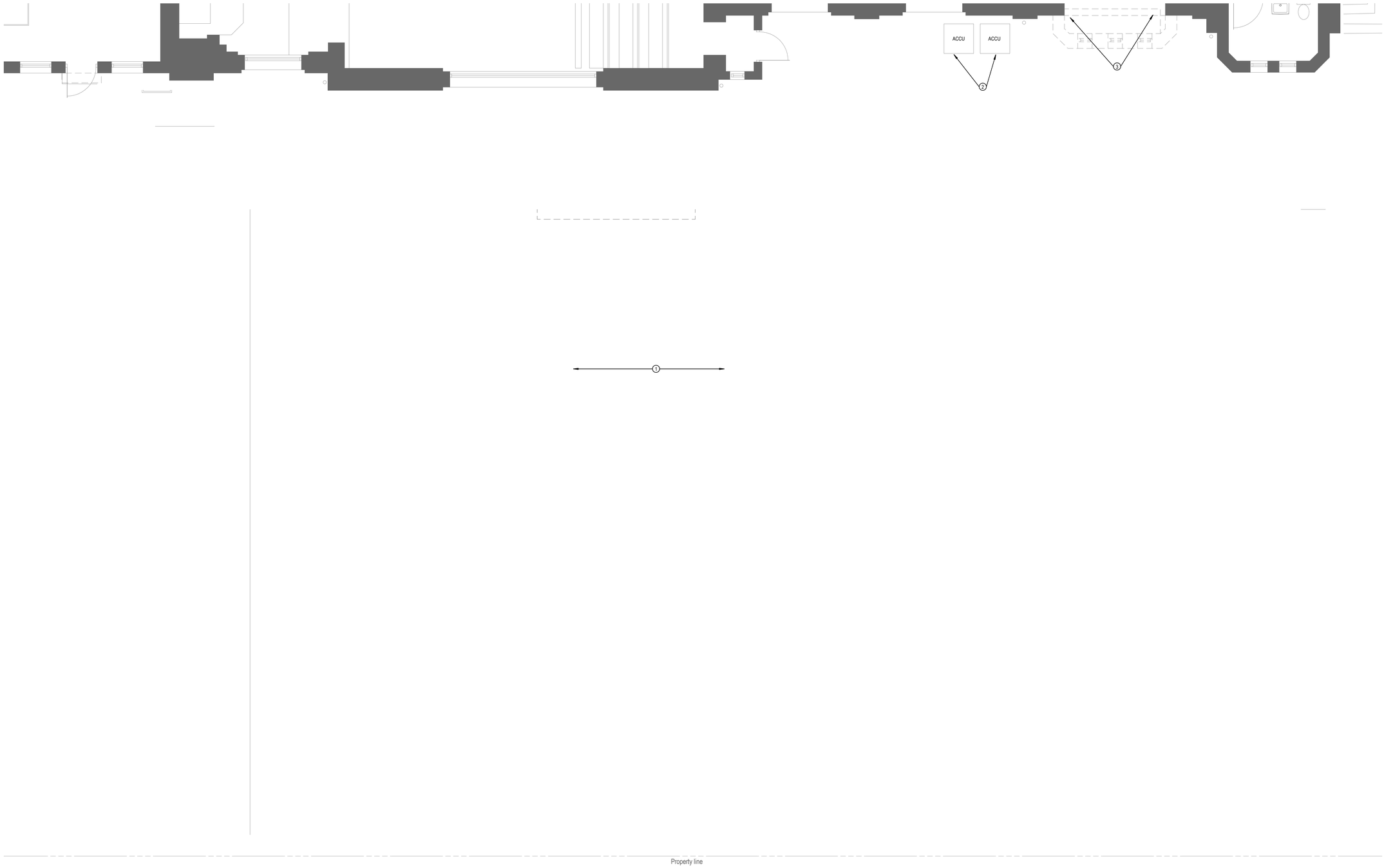
GENERAL NOTES

A. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AS INDICATED UNLESS OTHERWISE NOTED. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, DIMMERS, RECEPTACLES, AND FIRE ALARM DEVICES. REMOVE EXISTING WIRING BACK TO SOURCE OR NEAREST JUNCTION BOXES THAT REMAIN. REMOVAL OF EQUIPMENT AND DEVICES SHALL BE COMPLETE.

B. COORDINATE ALL DEMOLITION WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.

C. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ALL REMOVED ELECTRICAL MANTERIALS AND EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

D. PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND DEVICES DURING DEMOLITION WORK THAT ARE TO REMAIN.



1 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

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ELECTRICAL DEMOLITION PLAN

E101

PLAN NOTES

1. LUMINAIRE CONTROLLED VIA EXTERIOR LIGHTING CONTROL SYSTEM.
2. LOW VOLTAGE LIGHTING MASTER ON/OFF WALLSTATION SIMILAR TO NLIGHT nPODMA SERIES.
3. LOW VOLTAGE LIGHTING CONTROL WALLSTATIONS SIMILAR TO nLIGHT PODMA SERIES. ON/OFF AND RAISE/LOWER FOR EACH SWITCHLEG.
4. OCCUPANCY SENSOR, IN THIS ROOM, SHALL DIM LIGHTS TO 30% OUTPUT DURING UNOCCUPIED TIMES.
5. INSTALL LUMINAIRE ON WALL BELOW SIGNAGE AT APPROX 5'-9" A.F.F. COORDINATE WITH ARCHITECT.
6. PROVIDE SIXTEEN RELAY PANEL CABINET WITH TWELVE 0-10V OUTPUTS FOR LIGHTING CONTROL IN THE PARISH HALL AND GATHERING SPACE.
7. PROVIDE 250W INVERTER FOR EMERGENCY EGRESS LUMINAIRES.

GENERAL NOTES

A. REFER TO DRAWING E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.

C. COORDINATE ALL DIVISION 26 SCOPE OF WORK ON DIV 27 AV TECHNOLOGY DRAWINGS AND SPECS. DEDICATED CIRCUITS, FOR AV EQUIPMENT, SHALL BE ON THE SAME PHASE.

D. REFER TO M AND P SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

E. PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.

F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. CONTRACTOR SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE MATCHING RECEPTACLE AS REQUIRED.

H. ALL RECEPTACLES WITHIN SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI ON PLANS, BUT SHALL BE PROVIDED ACCORDING TO THE REQUIREMENT.

I. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL ELEVATIONS, HVAC EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND STRUCTURE PRIOR TO ROUGH-IN.

J. ALL EXIT SIGNS, EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT ("NL") SHALL BE PROVIDED WITH AN UNSWITCHED "HOT" CIRCUIT CONDUCTOR.

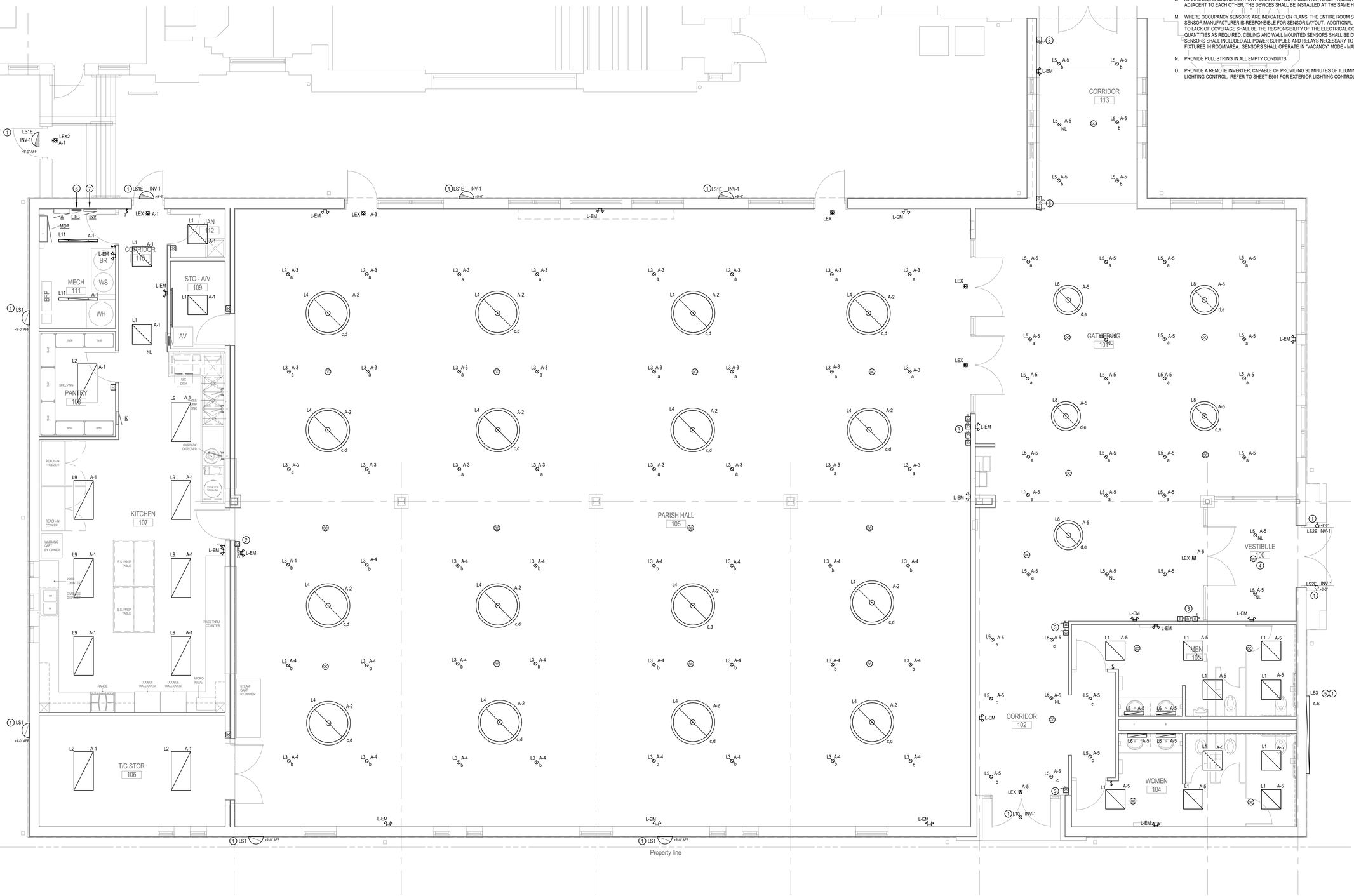
K. AT LOCATIONS WITH TWO OR MORE WALL SWITCHES, ALL SWITCHES SHALL BE INSTALLED GANGED IN A COMMON SWITCH BOX.

L. AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.

M. WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. SENSOR MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITIES AS REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL-TECHNOLOGY TYPE. SENSORS SHALL INCLUDED ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM/AREA. SENSORS SHALL OPERATE IN "VACANCY" MODE - MANUAL ON/AUTO OFF.

N. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

O. PROVIDE A REMOTE INVERTER, CAPABLE OF PROVIDING 90 MINUTES OF ILLUMINATION, FOR EXTERIOR LIGHTING CONTROL. REFER TO SHEET E501 FOR EXTERIOR LIGHTING CONTROL DIAGRAM.



1 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

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ELECTRICAL LIGHTING PLAN

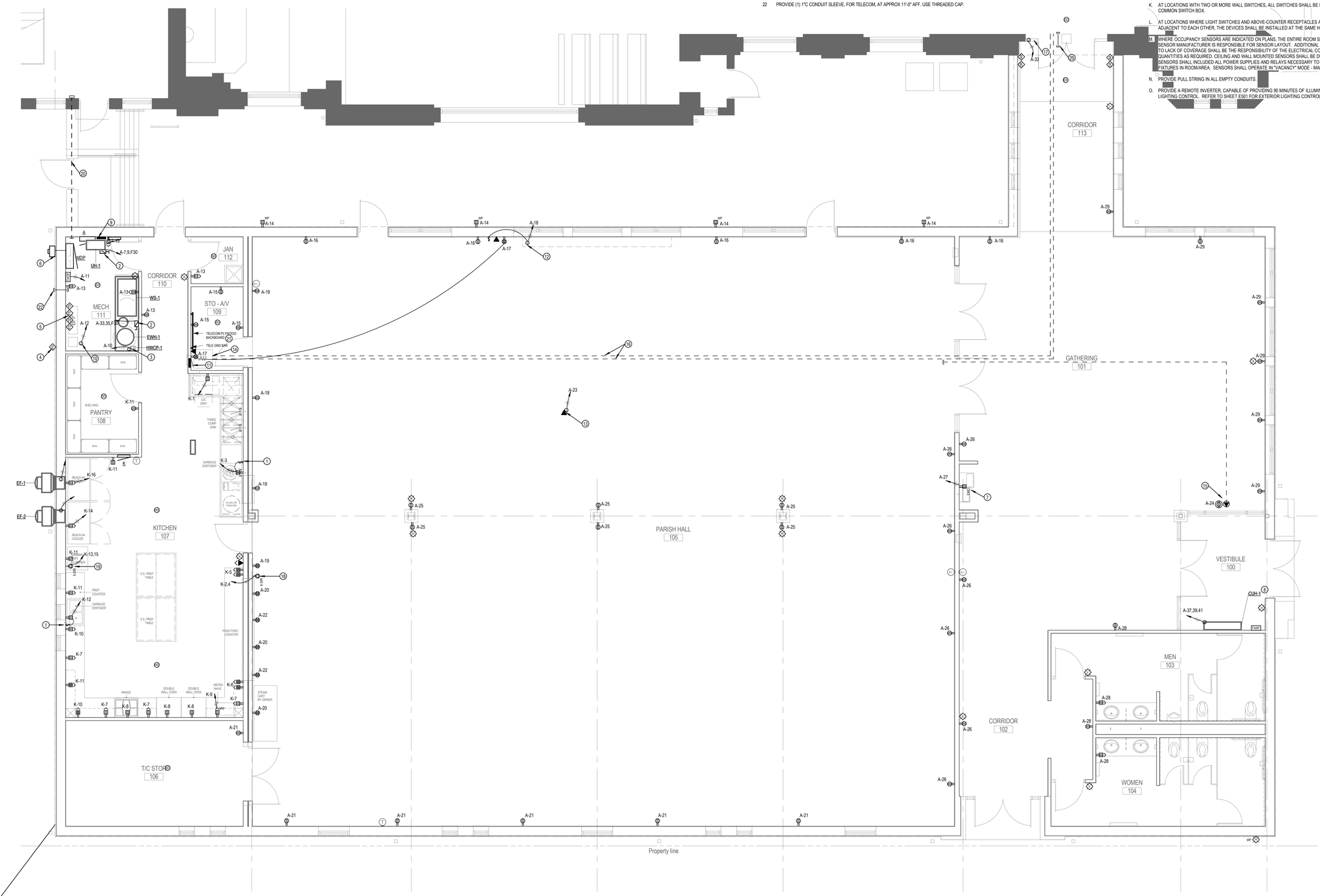
E201

PLAN NOTES

1 PROVIDE ABOVE COUNTER SWITCH FOR GARBAGE DISPOSAL.
2 PROVIDE 30A-2P, 208V DISCONNECT SWITCH.
3 PROVIDE 20A-1P, 120V DISCONNECT SWITCH.
4 COORDINATE POST INDICATOR VALVE LOCATION WITH CIVIL DRAWINGS.
5 COORDINATE FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION CONTRACTOR.
6 COORDINATE ELECTRIC METER WITH DUKE ENERGY.
7 COORDINATE ELECTRIC WATER COOLER INSTALLATION WITH PROVIDER.
8 UNIT DISCONNECT SWITCH PROVIDED BY MANUFACTURER.
9 EMERGENCY LIGHTING INVERTER.
10 FIRE PROTECTION AIR COMPRESSOR. PROVIDE 20A-1P, 120V DISCONNECT SWITCH.
11 PROVIDE 12"x12"x3" PULLBOX AT 18" A.F.F. FOR AV CONDUCTORS. STUB (5) 3/4" CONDUIT ABOVE ACCESSIBLE CEILING. PROVIDE PULL STRING.
12 PROVIDE CONNECTION TO MOTORIZED SCREEN AND LOW VOLTAGE CONTROLLER.
13 PROVIDE CONNECTION TO CEILING MOUNTED VIDEO PROJECTOR. PROVIDE 2'x2' SUSPENDED CEILING PROJECTOR PLATE.
14 DIVISION 26 SHALL PROVIDE BASE BID POWER AND CONDUIT FOR AV SYSTEM. COORDINATE WITH DIV 27 AV TECHNOLOGY PLANS AND ALSO DIV 27 SPECIFICATIONS FOR SUBCONTRACTOR SCOPE OF WORK. PROVIDE CONDUIT WITH PULL STRINGS TO STANDARD GANG BOXES FOR THE NEW PARISH HALL. SEE AV TECHNOLOGY SYMBOL NOTES AND SCHEDULES.
15 PROVIDE FLUSH MOUNTED CEILING BACKBOXES WITH CONDUIT AND DEVICES. PROVIDE (1) 1"EMT FOR LOW VOLTAGE FROM BACKBOX TO ABOVE ACCESSIBLE CEILING.
16 PROVIDE (2) 3/4" CONDUITS FOR AUDIO AND VIDEO CONDUCTORS FROM THE EXISTING NAVE AS INDICATED ON THE DIV 27 PLANS. COORDINATE IN THE FIELD WITH THE AV SUBCONTRACTOR FROM THE NAVE TO THE AV RACK. CORE DRILL AND PATCH AS REQUIRED.
17 PROVIDE FIRE ALARM AND 120V CONNECTION TO DOOR HOLD SYSTEM. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE.
18 RECEPTACLE FOR OWNER PROVIDED STEAM TABLE. VERIFY EXACT REQUIREMENT WITH OWNER.
19 RECEPTACLE FOR OWNER PROVIDED WARMING CART. VERIFY EXACT REQUIREMENT WITH OWNER.
20 PROVIDE (2) 1"C CONDUIT SLEEVES, ABOVE CEILING, FOR FUTURE LOW VOLTAGE WIRING.
21 PROVIDE 4'x8' PLYWOOD BACKBOARD PAINTED WITH WHITE FIRE RETARDANT PAINT.
22 PROVIDE (1) 1"C CONDUIT SLEEVE, FOR TELECOM, AT APPROX 11'-0" AFF. USE THREADED CAP.

GENERAL NOTES

A. REFER TO DRAWING E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.
B. COORDINATE ALL WORK WITH THE OWNER AND THE OTHER TRADES ON THE PROJECT.
C. COORDINATE ALL DIVISION 26 SCOPE OF WORK ON DIV 27 AV TECHNOLOGY DRAWINGS AND SPECS. DEDICATED CIRCUITS, FOR AV EQUIPMENT, SHALL BE ON THE SAME PHASE.
D. REFER TO M AND P SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
E. PROTECT ALL FINISHES, EQUIPMENT, AND DEVICES DURING THE WORK.
F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.
G. CONTRACTOR SHALL VERIFY CORD AND PLUG CONNECTED EQUIPMENT CORD CONFIGURATION AND PROVIDE MATCHING RECEPTACLE AS REQUIRED.
H. ALL RECEPTACLES WITHIN SIX FEET OF A SINK SHALL BE GFCI TYPE. DEVICES MAY NOT BE IDENTIFIED AS GFCI ON PLANS, BUT SHALL BE PROVIDED ACCORDING TO THE REQUIREMENT.
I. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL ELEVATIONS, HVAC EQUIPMENT, DIFFUSERS, DUCTWORK, PIPING, SUPPORTS, AND STRUCTURE PRIOR TO ROUGH-IN.
J. ALL EXIT SIGNS, EMERGENCY BATTERY LIGHTING UNITS, AND LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BACKUP OR INDICATED AS A NIGHT LIGHT ("NL") SHALL BE PROVIDED WITH AN UNSWITCHED "HOT" CIRCUIT CONDUCTOR.
K. AT LOCATIONS WITH TWO OR MORE WALL SWITCHES, ALL SWITCHES SHALL BE INSTALLED GANGED IN A COMMON SWITCH BOX.
L. AT LOCATIONS WHERE LIGHT SWITCHES AND ABOVE-COUNTER RECEPTACLES ARE TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT.
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N. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
O. PROVIDE A REMOTE INVERTER, CAPABLE OF PROVIDING 90 MINUTES OF ILLUMINATION, FOR EXTERIOR LIGHTING CONTROL. REFER TO SHEET E501 FOR EXTERIOR LIGHTING CONTROL DIAGRAM.



1 FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

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ELECTRICAL POWER & SYSTEMS PLAN

E202

PLAN NOTES

1. PROVIDE 400A-3P, 208V FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
2. INSTALL DUCT DETECTOR INSIDE BUILDING. COORDINATE LOCATION ABOVE CEILING.

GENERAL NOTES

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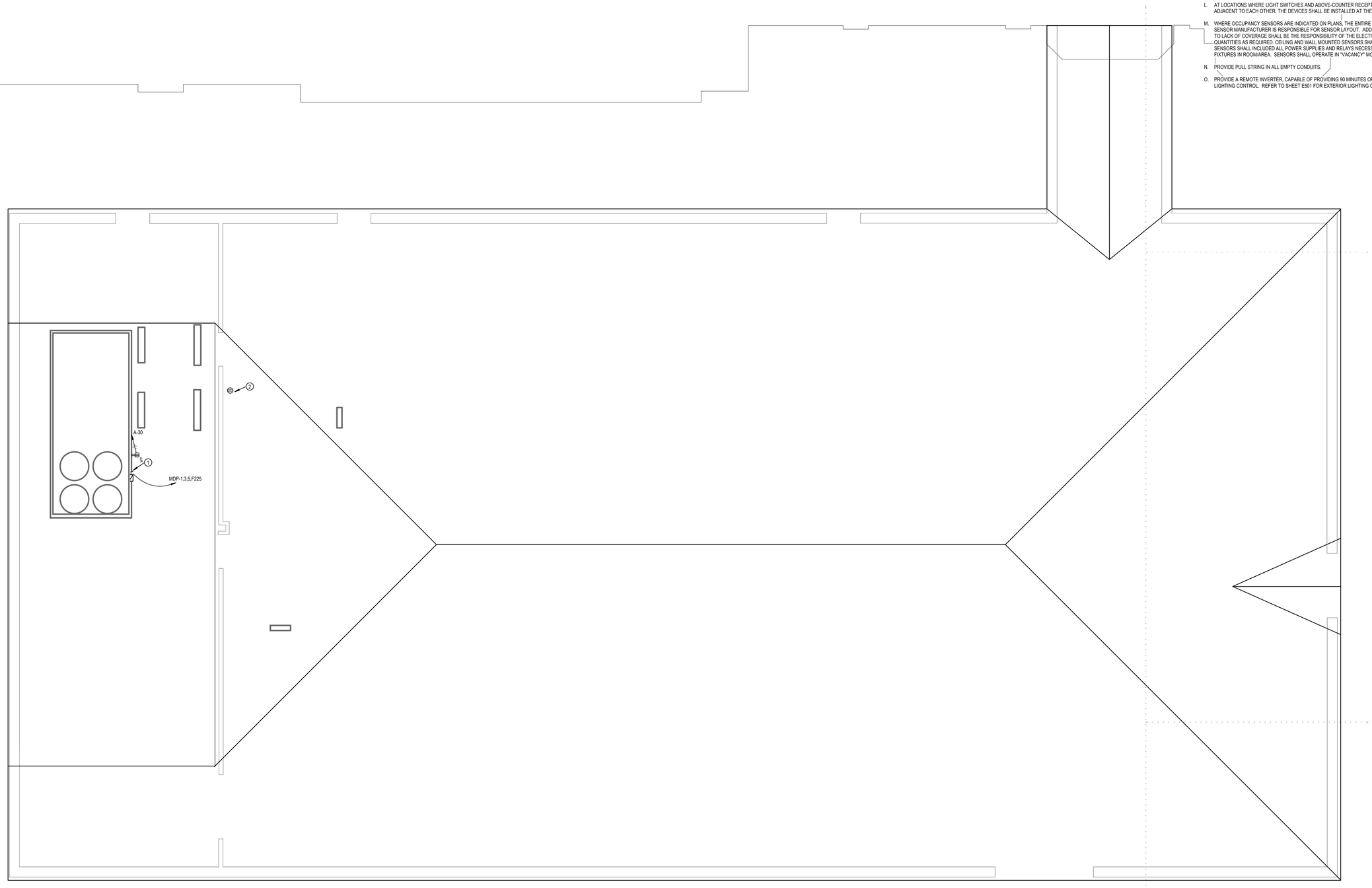
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N. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

O. PROVIDE A REMOTE INVERTER, CAPABLE OF PROVIDING 90 MINUTES OF ILLUMINATION, FOR EXTERIOR LIGHTING CONTROL. REFER TO SHEET E501 FOR EXTERIOR LIGHTING CONTROL DIAGRAM.



1 ELECTRICAL ROOF PLAN
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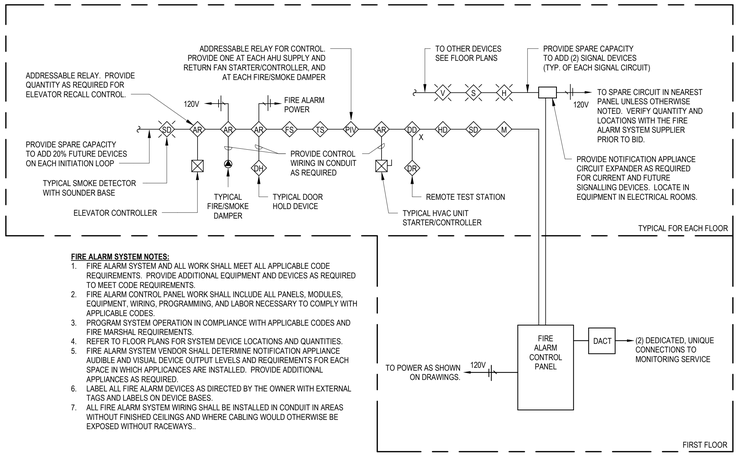
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ROOF ELECTRICAL PLAN

NORTH

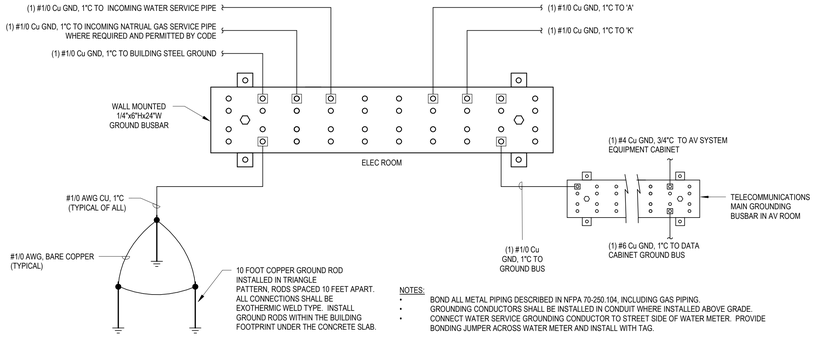
E301



FIRE ALARM SYSTEM NOTES:

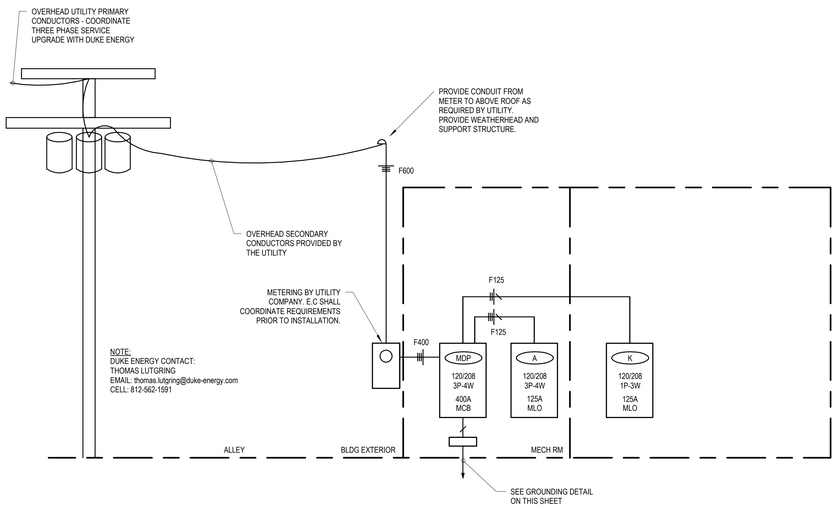
1. FIRE ALARM SYSTEM AND ALL WORK SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. PROVIDE ADDITIONAL EQUIPMENT AND DEVICES AS REQUIRED TO MEET CODE REQUIREMENTS.
2. FIRE ALARM CONTROL PANEL WORK SHALL INCLUDE ALL PANELS, MODULES, EQUIPMENT, WIRING, PROGRAMMING, AND LABOR NECESSARY TO COMPLY WITH APPLICABLE CODES.
3. PROGRAM SYSTEM OPERATION IN COMPLIANCE WITH APPLICABLE CODES AND FIRE MARSHAL REQUIREMENTS.
4. REFER TO FLOOR PLANS FOR SYSTEM DEVICE LOCATIONS AND QUANTITIES.
5. FIRE ALARM SYSTEM VENDOR SHALL DETERMINE NOTIFICATION APPLIANCE AUDIBLE AND VISUAL DEVICE OUTPUT LEVELS AND REQUIREMENTS FOR EACH SPACE IN WHICH APPLICANCES ARE INSTALLED. PROVIDE ADDITIONAL APPLIANCES AS REQUIRED.
6. LABEL ALL FIRE ALARM DEVICES AS DIRECTED BY THE OWNER WITH EXTERNAL TAGS AND LABELS ON DEVICE BASES.
7. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT IN AREAS WITHOUT FINISHED CEILINGS AND WHERE CABLING WOULD OTHERWISE BE EXPOSED WITHOUT RACEWAYS..

6 FIRE ALARM SYSTEM SCHEMATIC
NO SCALE



NOTES:
- BOND ALL METAL PIPING DESCRIBED IN NFPA 70-250.104, INCLUDING GAS PIPING.
- GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT WHERE INSTALLED ABOVE GRADE.
- CONNECT WATER SERVICE GROUNDING CONDUCTOR TO STREET SIDE OF WATER METER. PROVIDE BONDING JUMPER ACROSS WATER METER AND INSTALL WITH TAG.

3 POWER - MAIN ELECTRICAL GROUND BUSBAR DETAIL
NO SCALE



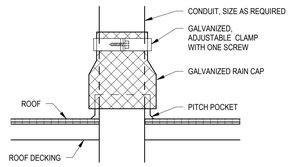
4 ELECTRICAL RISER DIAGRAM
NO SCALE

INFORMATION PLATE



NOTE: PROVIDE I.D. PLATE LABEL FOR ELECTRICAL EQUIPMENT SUCH AS MAIN SWITCHGEAR, SWITCHBOARD PANELBOARDS, AND TRANSFORMERS

1 ELECTRICAL EQUIPMENT I.D. LABELING DETAIL
NO SCALE

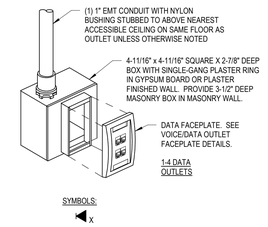


NOTE: COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. COMPLY WITH ROOFING CONTRACTOR REQUIREMENTS.

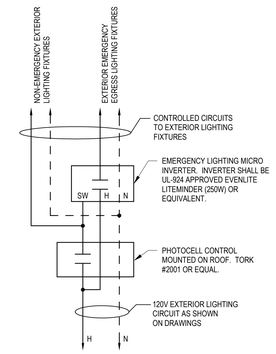
2 ELECTRICAL ROOF PENETRATION DETAIL.
NO SCALE

FEEDER AND BRANCH CIRCUIT SIZING TABLE

DESIGNATION	CONDUCTOR SIZE		TYPE CABLE		
FXXX	PHASE & NEUTRAL	EQUIPMENT GROUND	ALUMINUM	COPPER	CONDUIT
F20	12	12		X	MC
F30	10	10		X	MC
F40-50	8	10		X	MC
F60	6	10		X	MC
F70-80	4	8		X	MC
F90	3	8		X	MC
F100	3	8		X	MC
F125	1/0	4	X		MC
F150	3/0	4	X		2-1/2"
F175	4/0	4	X		2-1/2"
F200	250	4	X		3"
F225	300	2	X		3"
F250	350	2	X		3"
F300	500	2	X		3-1/2"
F350	2 RUNS OF 4/0	1	X		2-1/2"
F400	2 RUNS OF 250	1	X		3" EACH
F600	2 RUNS OF 500	2/0	X		3-1/2" EACH
F800	3 RUNS OF 400	3/0	X		3-1/2" EACH
F1000	3 RUNS OF 600	4/0	X		4" EACH
F1200	4 RUNS OF 500	250	X		3-1/2" EACH
F1600	5 RUNS OF 600	350	X		4" EACH
F2000	6 RUNS OF 600	400	X		4" EACH
F2500	7 RUNS OF 750	600	X		4" EACH
F3000	8 RUNS OF 750	600	X		4" EACH



8 DATA OUTLET DETAIL - FLUSH IN NEW WALLS
NO SCALE



5 EXTERIOR LIGHTING CONTROL SYSTEM PHOTOCELL ONLY
NO SCALE

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ATP ENGINEERING

DAVID SHUCK REGISTERED No. 19700101 STATE OF INDIANA PROFESSIONAL ENGINEER

Project No. 2024.012
Project Date SEPTEMBER 1, 2026
Produced bsa
Revision Date

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St. Joseph University Catholic Parish
New Parish Hall
113 South 5th Street
Terre Haute, Indiana 47807

2024.012

ELECTRICAL RISER DIAGRAM & DETAILS

E501

Branch Panel: A

Location:
Supplied From: MDP
Mounting: Surface
Enclosure Type: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4
Ground: YES

Branch:
A.I.C. Rating: 22K
Main Type: MLO
Main Rating: 125A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Circuit Number
1	Lighting - Kitchen, Mech Rm, Storage, AV	20 A	1	0.7	0.9					1	20 A	Lighting - Parish Hall pendants	2
3	Lighting - Parish Hall downlights	20 A	1			0.9	0.8			1	20 A	Lighting - Parish Hall downlights	4
5	Lighting - Gathering, T.R	20 A	1					1.3	0.1	1	20 A	Exterior Lighting	6
7	Unit Heater (UH-1) Mech Rm	25 A	2	1.9	0					1	20 A	SPARE	8
9						1.9	0.5			1	20 A	Hot Water Circ Pump - Mech Rm	10
11	Fire Alarm Control Panel	20 A	1					0.5	0.5	1	20 A	Fire Protection Air Compressor	12
13	Receptacle - Mech Rm, Jan Closet	20 A	1	0.9	0.7					1	20 A	Exterior Receptacle - Patio	14
15	Receptacle - AV Room	20 A	1			0.5	0.9			1	20 A	Receptacle - Parish Hall North Wall	16
17	Receptacle - AV Rack and Podium	20 A	1					0.4	0.2	1	20 A	Motorized Screen - Parish Hall	18
19	Receptacle - Parish Hall West Wall	20 A	1	0.7	0.5					1	20 A	Receptacle - Parish Hall under Pass-thru Window	20
21	Receptacle - Storage, Parish Hall South Wall	20 A	1			1.1	0.4			1	20 A	Receptacle - Parish Hall under Pass thru window	22
23	Video Projector - Parish Hall	20 A	1					0.5	0.4	1	20 A	Receptacle - Gathering TV	24
25	Receptacle - Parish Hall Columns	20 A	1	1.1	1.3					1	20 A	Receptacle - Parish Hall East and Gathering West	26
27	Receptacle - Elec Water Cooler	20 A	1			0.3	0.7			1	20 A	Receptacle - Toilet Room, Gathering South	28
29	Receptacle - Gathering East Wall	20 A	1					1.1	0.2	1	20 A	Receptacle - Roof	30
31	SPARE	20 A	1	0	0.5					1	20 A	Door Hold System	32
33	Elec Water Heater	30 A	2			2.3	0.5			1	20 A	Exhaust Fan #1	34
35								2.3	1	1	20 A	Exhaust Fan #2	36
37	CUH-1 (Vestibule)	20 A	3	1.7	0					1	20 A	SPARE	38
39						1.7	0			1	20 A	SPARE	40
41								1.7	0	1	20 A	SPARE	42
		Total Load:		10.9 kVA		12.2 kVA		10.0 kVA					

Load Sumamry:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	13200 VA	100.00%	13200 VA		
Kitchen Equipment - Non-Dwelling Unit	250 VA	100.00%	250 VA	**Total Conn. Load:**	33099 VA
Lighting	3660 VA	100.00%	3660 VA	**Total Est. Demand:**	31452 VA
Mechanical	2960 VA	70.00%	2072 VA	**Total Conn. Current:**	92 A
Other	1154 VA	100.00%	1154 VA	**Total Est. Demand Current:**	87 A
Power	500 VA	100.00%	500 VA		
Receptacle	11520 VA	93.40%	10760 VA		

Remarks:

Branch Panel: K

Location:
Supplied From: MDP
Mounting: Recessed
Enclosure Type: Type 1

Voltage: 120/208 Single
Phase: 1
Wire: 3
Ground: Yes

Branch:
A.I.C. Rating: 22K
Main Type: MLO
Main Rating: 125A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	Circuit Number
1	Dishwasher	20 A	1	1	1.5			2	20 A	Receptacle - Steam Table Parish Hall West wall	2
3	Garbage Disposal	20 A	1			0.2	1.5				4
5	Receptacles - East wall	20 A	1	0.4	0.4			1	20 A	Receptacles - East wall	6
7	Receptacle - Above counter South wall	20 A	1			0.7	0.5	1	20 A	Receptacles - Gas appliances	8
9	Receptacle - Microwave	20 A	1	1	0.4			1	20 A	Receptacles - West wall	10
11	Receptacle - West wall	20 A	1			0.9	0.2	1	20 A	Receptacle - Garbage disposal west wall	12
13	Receptacle - West wall	20 A	2	1.5	0.9			1	20 A	Receptacle - Reach In Cooler	14
15						1.5	0.9	1	20 A	Receptacle - Reach In Freezer	16
17	SPARE	20 A	1	0	0			1	20 A	SPARE	18
19	SPARE	20 A	1			0	0	1	20 A	SPARE	20
21	SPARE	20 A	1	0	0			1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	PROVISION	--	1	--	--			1	--	PROVISION	26
27	PROVISION	--	1			--	--	1	--	PROVISION	28
29	PROVISION	--	1	--	--			1	--	PROVISION	30
		Total Load:		7.0 kVA		6.4 kVA					

Load Sumamry:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment - Non-Dwelling Unit	9800 VA	65.00%	6370 VA		
Receptacle	3600 VA	100.00%	3600 VA	**Total Conn. Load:**	13400 VA
				Total Est. Demand:	9970 VA
				Total Conn. Current:	64 A
				Total Est. Demand Current:	48 A

Remarks:

INTERIOR LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	WATTAGE	LAMP	LUMENS	ACCEPTABLE MANUFACTURERS
L1	FLAT PANEL	NOMINAL 24"W x 24"L x 1.5"D RECESSED LED FLAT PANEL LUMINAIRE, 0-10V DIMMING TO 1%, 80 CRI, FIVE YEAR WARRANTY, 3500K	120 V	21 W	LED	2,400	LITHONIA CPX METALUX - FPX COLUMBIA - SRP24
L2	FLAT PANEL	NOMINAL 24"W x 48"L x 1.5"D RECESSED LED FLAT PANEL LUMINAIRE, 0-10V DIMMING TO 1%, 80 CRI, FIVE YEAR WARRANTY, 3500K	120 V	40 W	LED	4,000	LITHONIA CPX METALUX - FPX COLUMBIA - SRP24
L3	DOWNLIGHT	NOMINAL 4" DIA x 5"H LED RECESSED DOWNLIGHT. WHITE SELF TRIM, CLEAR SEMI-SPECULAR REFLECTOR, 0-10V DIMMING TO 1%, FIVE YEAR WARRANTY, 3500K	120 V	35 W	LED	3,000	LITHONIA LDN4 HALO - HC4 PRESCOLITE - LFR
L4	DECORATIVE PENDANT	48" DIA. x 3" H SUSPENDED LED PENDANT WITH FLUSH WHITE ACRYLIC LENS, UP/DOWN DISTRIBUTION, TWO CIRCUIT, SOLID OUTER RING, REMOTE DRIVER ABOVE DROP CEILING, 24" LONG STANDARD CABLE MOUNTING, 3000K, 90 CRI, 0-10V DIMMING TO 1%, FINISH TO BE SELECTED BY ARCHITECT	120 V	59 W	LED	6,100	GLIGHTING GL-2307 SERIES; CAMMAN P1044 SERIES
L5	DOWNLIGHT	NOMINAL 4" DIA x 5"H LED RECESSED DOWNLIGHT. WHITE SELF TRIM, CLEAR SEMI-SPECULAR REFLECTOR, 0-10V DIMMING TO 1%, FIVE YEAR WARRANTY,	120 V	22 W	LED	2,000	LITHONIA LDN4 HALO - HC4 PRESCOLITE - LFR
L6	LED VANITY LIGHT	24" LONG X 3"W X 4.5"D WALL MOUNTED LED VANITY WITH EXTRUDED WHITE ACRYLIC DIFFUSER, UV STABLE, DIE CAST END CAPS, 3500K, PREMIUM FINISH TO BE SELECTED BY ARCHITECT	120 V	17 W	LED	1,900	VISA CB6505 SERIES; CAMMAN W412 SERIES
L8	DECORATIVE PENDANT	36" DIA. x 3" H SUSPENDED LED PENDANT WITH FLUSH WHITE ACRYLIC LENS, UP/DOWN DISTRIBUTION, TWO CIRCUIT, SOLID OUTER RING, REMOTE DRIVER ABOVE DROP CEILING, 24" LONG STANDARD CABLE MOUNTING, 3000K, 90 CRI, 0-10V DIMMING TO 1%, FINISH TO BE SELECTED BY ARCHITECT	120 V	42 W	LED	4,400	GLIGHTING GL-2306 SERIES; CAMMAN P1044 SERIES
L9	FLAT PANEL	NOMINAL 24"W x 48"L x 1.5"D RECESSED LED FLAT PANEL LUMINAIRE, 0-10V DIMMING TO 1%, 80 CRI, FIVE YEAR WARRANTY, 3500K	120 V	60 W	LED	7,200	LITHONIA CPX METALUX - FPX COLUMBIA - SRP24
L10	SURFACE DISC	NOMINAL 4" DIA x 1"H SURFACE MOUNTED LED FLAT DISC DOWNLIGHT. WHITE TRIM, DIFFUSED LENS, 3000K, REMOTE EMERGENCY BATTERY, WET LOCATION LISTED, FIVE YEAR WARRANTY,	120 V	10 W	LED	800	JUNO JSF SERIES HALO - HC4 PRESCOLITE - LFR
L11	STRIP LIGHT	NOMINAL 2-3/8"W X 3-3/16"H X 48"L BAKED ENAMEL WHITE HOUSING FORMED FROM CODE GAUGE STEEL, 100% ACRYLIC FORMED DIFUSSER, DAMP LOCATION LISTED.	120 V	48 W	LED	5,000	LITHONIA CSS METALUX - SNX COLUMBIA - CSL
L-EM	EMERGENCY BATTERY LIGHT	NOMINAL 13"W x 6"T x 3.5"D WALL MOUNTED EMERGENCY LIGHT WITH WHITE THERMOPLASTIC HOUSING, PROVIDE WITH INTEGRAL BATTERY AND SELF DIAGNOSTICS.	120 V	5 W	LED	640	LITHONIA - ELM2L EVENLITE - TE8L3W DUAL-LITE - EV
LEX	EXIT SIGN	LED ELECTRONIC EXIT LIGHT WITH ACRYLIC PANEL, SINGLE OR DOUBLE FACE AS INDICATED ON DRAWING DOCUMENTS, RECESSED, DIRECTIONAL ARROW, GREEN LETTERS "EXIT", NICKEL CADMIUM BATTERY. PROVIDE WITH SELF DIAGNOSTICS	120 V	3 W	LED		LITHONIA EDGC; EVENLITE; DUAL-LITE
LEX2	EXIT SIGN	EXTERIOR LED ELECTRONIC EXIT LIGHT. SINGLE FACE AS INDICATED ON DRAWING DOCUMENTS, WHITE THERMOPLASTIC HOUSING WITH POLYCARBONATE LENS, UNIVERSAL SURFACE MOUNTED. DIRECTIONAL ARROW, GREEN LETTERS "EXIT", NICKEL CADMIUM BATTERY, UL LISTED WET LOCATION	120 V	3 W	LED		LITHONIA WLTE EVENLITE DUAL-LITE

EXTERIOR LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	WATTAGE	LAMP	LUMENS	ACCEPTABLE MANUFACTURERS
LS1	EXTERIOR WALL PACK	12"W X 7"D X 9"H, FULL CUTOFF PERIMETER LIGHTING, VISUAL COMFORT FORWARD THROW DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, WET LOCATION LISTED, 3000K, FINISH SELECTION BY ARCHITECT FROM STANDARD AVAILABLE FINISH. REFER TO EXTERIOR LIGHT CONTROL SCHEMATIC.	120 V	25 W	LED	3,000	LITHONIA WDGE2; MCGRAW-EDISON GEKKO SERIES
LS1E	EMERG EXTERIOR WALL PACK	12"W X 7"D X 9"H, FULL CUTOFF PERIMETER LIGHTING, EMERG LIGHTING PROVIDED BY REMOTE INVERTER, VISUAL COMFORT FORWARD THROW DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, WET LOCATION LISTED, 3000K, FINISH SELECTION BY ARCHITECT FROM STANDARD AVAILABLE FINISH. REFER TO EXTERIOR LIGHT CONTROL SCHEMATIC.	120 V	25 W	LED	3,000	LITHONIA WDGE2; MCGRAW-EDISON GEKKO SERIES
LS2E	EMERG EXTERIOR SCONCE	NOMINAL 4" X 9" X 4" ADA COMPLIANT, SURFACE MOUNTED INDIRECT EXTERIOR RATED SCONCE, EMERG.LTG PROVIDED BY REMOTE INVERTER, WIDE ASYMMETRIC TYPE 4 DISTRIBUTION, 3000K, WET LOCATION LISTED, ALUMINUM CONSTRUCTION, FINISH TO BE SELECTED BY ARCHITECT, REFER TO EXTERIOR LIGHT CONTROL SCHEMATIC.	120 V	22 W	LED	2,200	SPI LIGHTING EEW12449 SERIES
LS3	8'-0" SIGN LIGHT	NOMINAL 3.5" X 4.25" X 96"L, WALL MOUNTED LED SIGN LIGHT, 3000K, EXTRUDED ALUMINUM HOUSING, WET LOCATION LISTED, TEMPERED GLASS LENS, SIX INCH SETBACK, FINISH TO BE SELECTED BY ARCHITECT	120 V	28 W	LED	3,400	INSIGHT MX SERIES; SPI SEW12146 SERIES

Branch Panel: MDP

Location:
Supplied From:
Mounting: Surface
Enclosure Type: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4
Ground: Yes

Branch:
A.I.C. Rating: 25K
Main Type:
Main Rating: 400A MCB

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	Circuit Number
1				18.1	10.9								2
3	RTU-1	225 A	3			18.1	12.2			3	125 A	PANEL A	4
5								18.1	10				6
7				7	--								8
9	PANEL K	125 A	2			6.4	--			3	--	PROVISION	10
11	PROVISION	--	1					--	--				12
13													14
15													16
17													18
		Total Load:		36.0 kVA		36.8 kVA		28.1 kVA					

Load Sumamry:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	13200 VA	100.00%	13200 VA		
Kitchen Equipment - Non-Dwelling Unit	10050 VA	65.00%	6533 VA	**Total Conn. Load:**	100888 VA
Lighting	3660 VA	100.00%	3660 VA	**Total Est. Demand:**	77604 VA
Mechanical	57360 VA	70.00%	40152 VA	**Total Conn. Current:**	280 A
Other	1154 VA	100.00%	1154 VA	**Total Est. Demand Current:**	215 A
Power	500 VA	100.00%	500 VA		
Receptacle	15120 VA	83.07%	12560 VA		

Remarks:

#NO.	LOW VOLTAGE SYSTEM RESPONSIBILITY	LOW VOLTAGE SYSTEM							ABBREVIATIONS	
		FIRE ALARM	PHONE	DATA	SECURITY / ACCESS CONTROL	CCTV	AUDIO / VISUAL SYSTEM	CABLE TV / COAX		
1.	WHO WILL FURNISH THE SYSTEM EQUIPMENT?	EC	O/V	O/V	O/V	O/V	O/V	NA	N/A	NOT APPLICABLE
2.	WHO WILL INSTALL THE SYSTEM EQUIPMENT?	EC	O/V	O/V	O/V	O/V	O/V	NA	EC	ELECTRICAL CONTRACTOR
3.	WHO WILL FURNISH THE SYSTEM WIRING?	EC	O/V	O/V	O/V	O/V	O/V	O/V		
4.	WHO WILL INSTALL THE SYSTEM WIRING?	EC	O/V	O/V	O/V	O/V	O/V	O/V	O	OWNER
5.	WHO WILL PROVIDE ROUGH-INS (CONDUIT AND BOXES) TO THE SYSTEM?	EC	EC	EC	EC	EC	EC	EC	V	VENDOR
6.	WHO WILL PROVIDE POWER CONNECTION TO THE SYSTEM PANEL?	EC	EC	EC	EC	EC	EC	EC	-	-
7.	WHO WILL PROVIDE TELECOM CONNECTION TO THE SYSTEM PANEL?	EC	O/V	O/V	O/V	O/V	O/V	O/V	-	-
8.	WHO WILL PROVIDE FINAL TERMINATION TO THE SYSTEM DEVICES?	EC	O/V	O/V	O/V	O/V	O/V	O/V	-	-
9.	WHO WILL PROVIDE TESTING AND ACCEPTANCE OF THE INSTALLED SYSTEM?	EC	O/V	O/V	O/V	O/V	O/V	O/V	-	-

1 LOW VOLTAGE SYSTEMS RESPONSIBILITY MATRIX
NO SCALE

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ELECTRICAL SCHEDULES

E601