MSD WAYNE TOWNSHIP

SALT STORAGE BUILDING

7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

CONSTRUCTION DOCUMENTS

OCTOBER 6, 2026

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CIVIL

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ARCHITECT

CSO

8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

CIVIL/ STRUCTURAL ENGINEER

JPS CONSULTING ENGINEERS, LLC

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GREAT SCHOOLS
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MSD WAYNE TOWNSHIP

SALT STORAGE BUILDING
7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

MSD WAYNE TOWNSHIP
CONSTRUCTION DOCUMENTS
OCTOBER 6, 2026

2025093



GENERAL NOTES

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE AND FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.

B. CONTRACTOR SHALL INCLUDE COSTS FOR CUTTING AND PATCHING AS REQUIRED IN THEIR BID PROPOSAL TO COMPLETELY INSTALL THE WORK INDICATED.

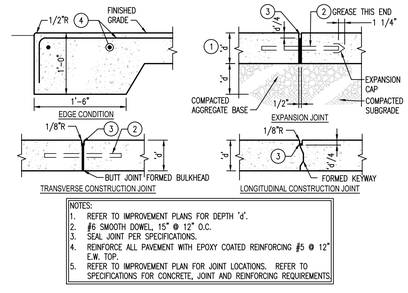
C. CONTRACTOR SHALL INCLUDE ALL TAP FEES, PERMIT FEES AND APPLICATION FEES IN THEIR BID PROPOSAL AS NECESSARY TO COMPLETELY INSTALL THE WORK INDICATED.

D. INFORMATION SHOWN WAS OBTAINED FROM AN AERIAL OF EXISTING CONDITIONS AND IS UNCONFIRMED. CONTRACTOR IS REQUIRED TO FIELD VERIFY THIS INFORMATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES SO MODIFICATION CAN BE MADE.

E. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. UTILIZE THE INDIANA UNDERGROUND UTILITY LOCATION SERVICE AT 811 OR 800-382-5544 PRIOR TO ANY EXCAVATION ON THE SITE.

○ PLAN NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT COMPLETE. MAKE STRAIGHT SAW-CUT AT TERMINATION.
2. NEW 6" CONCRETE.



NOTES:
1. REFER TO IMPROVEMENT PLANS FOR DEPTH 'd'.
2. #6 SMOOTH DOWEL, 15" @ 12" O.C.
3. SEAL JOINT PER SPECIFICATIONS.
4. REINFORCE ALL PAVEMENT WITH EPOXY COATED REINFORCING #5 @ 12" E.W. TOP.
5. REFER TO IMPROVEMENT PLAN FOR JOINT LOCATIONS. REFER TO SPECIFICATIONS FOR CONCRETE, JOINT AND REINFORCING REQUIREMENTS.

1 CONCRETE PAVEMENT DETAIL
NO SCALE

0 10 20 FEET
SCALE:1"=10'

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JPS CONSULTING ENGINEERS
11 MUNICIPAL DRIVE
SUITE 300, FISHERS, IN 46038
317.617.4270 jpsconsultingengineers.com

PROJECT:
MSD WAYNE TOWNSHIP
SALT STORAGE BUILDING
7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings and specifications together describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

ISSUE DATE	DRAWN BY	CHECKED BY
10/06/2026	KUA	CES

DRAWING TITLE:
SITE PLAN

CERTIFIED BY:
ANDREW D. KUNKEL
REGISTERED
No.
PE10200271
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
C100

PROJECT NUMBER
2025093

JPS Consulting Engineers - K:\Civil Projects\2026\26JPSC06 MSD Wayne Township Salt Barn\drawings\C100.dwg February 4, 2026 - 8:05 AM TJones

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL RESOLVE ANY CONFLICT ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE ARCHITECT / EOR BEFORE PROCEEDING WITH THE WORK IN GENERAL. WHERE THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR WORK.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST REVISIONS AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS AND ERECTION IN THE FIELD.
3. PLAN NOTES, DETAILS AND SECTIONS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. "TYPICAL DETAILS" ARE APPLICABLE THROUGHOUT CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.
4. CONTRACT DOCUMENTS INDICATE SUFFICIENT INFORMATION TO CONVEY DESIGN INTENT. THE GENERAL CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS AND VERIFY FIELD AND EXISTING CONDITIONS. PROMPTLY NOTIFY ARCHITECT/ EOR PRIOR TO PROCEEDING WITH WORK IF FURTHER CLARIFICATION OF DESIGN INTENT IS NEEDED.
5. REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT SCALE DRAWINGS.
6. CONTRACTORS ARE REQUIRED TO COORDINATE THEIR RESPECTIVE WORK WITH ALL OTHER DISCIPLINES TO AVOID ANY CONFLICTS DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER CONSTRUCTION DOCUMENTS.
7. THE DRAWINGS DO NOT SHOW ALL THE OPENINGS REQUIRED. THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. ADDITIONAL OPENINGS, BLOCK-OUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHAM BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INDICATED ON THE DRAWINGS.
8. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL CONSTRUCTION OF THE STRUCTURE REACHES ITS FINAL CONDITION. AS SUCH, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING, UNDERPINNING, ETC. THE ARCHITECT / EOR IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR SAFETY PROCEDURES DURING CONSTRUCTION.
9. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLETENESS AND COMPLIANCE WITH THE CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO THE ARCHITECT / EOR. THE ARCHITECT / EOR REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN INTENT AND WHEN INDICATED, THE SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION OF THE PROJECT.
10. MODIFICATIONS AND SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BY THE ARCHITECT / EOR. NO MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.
11. NON-STRUCTURAL ITEMS INCLUDING BUT NOT LIMITED TO STAIR FRAMING, ARCHITECTURAL CLADDING, ETC., WHEN NOT DETAILED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS SHALL BE THE DESIGN RESPONSIBILITY OF THE CONTRACTOR. THESE NON-STRUCTURAL ITEMS MAY BE SUPPORTED BY THE PRIMARY STRUCTURE BUT SHALL NOT IMPOSE TORSIONAL LOADS ONTO THE PRIMARY SUPPORT MEMBERS. THE CONTRACTOR SHALL PROVIDE BRACES, KICKERS, STIFFENERS, ETC. AS NECESSARY TO ELIMINATE TORSIONAL LOADS AT NO ADDITIONAL COST TO THE OWNER.
12. IF A DISCREPANCY IS NOTED ON THE DRAWINGS, GENERAL NOTES OR SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT / EOR A WRITTEN REQUEST FOR CLARIFICATION AND SHALL NOT PROCEED WITH THE AFFECTED WORK WITHOUT DOCUMENTED RESOLUTION OF THE DISCREPANCY. ALL COSTS RESULTING FROM THE CONTRACTOR IMPROPERLY PROCEEDING WITH THE AFFECTED WORK PRIOR TO DOCUMENTED RESOLUTION OF THE DISCREPANCY, INCLUDING COST OF REMOVAL AND REPLACEMENT OF NON-CONFORMING WORK, SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES FROM DAMAGE DURING CONSTRUCTION.
14. STRUCTURAL SITE OBSERVATION VISITS MADE BY MEMBERS OF THE DESIGN TEAM SHALL NOT CONSTITUTE ACCEPTANCE OF THE CONSTRUCTION MEANS AND METHODS.
15. ANY STRUCTURAL DEMOLITION NOT INDICATED ON THE STRUCTURAL DRAWINGS THAT REQUIRES ADDITIONAL NEW STRUCTURE AND/OR FOUNDATIONS, REINFORCING OF EXISTING STRUCTURE, UNDERPINNING OR BRACING OF EXISTING FOUNDATIONS AND WALLS, ETC, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DRAWINGS AND CALCUALTIONS FOR ARCHITECT / EOR REVIEW AND APPROVAL.

CONSTRUCTION LOADS

1. THE CONSTRUCTION MATERIALS, IF PLACED ON FRAMED FLOORS AND ROOFS, SHALL BE SPREAD OUT SUCH THAT THE DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING IF OVERLOAD DURING CONSTRUCTION IS ANTICIPATED OR WHERE STRUCTURAL ELEMENTS HAVE NOT ATTAINED DESIGN STRENGTH. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN PROJECT JURISDICTION VERIFYING THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS.
3. SHOULD THE CONTRACTOR INTEND TO OPERATE CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO TEMPORARY LIFTS, HOISTS, CRANES, ETC., A COMPLETE LISTING OF ALL RELEVANT DESIGN INFORMATION SHALL BE SUBMITTED FOR EOR REVIEW AND APPROVAL. THE INFORMATION SUBMITTED SHALL INCLUDE OPERATING WEIGHT, WHEEL LOADS, WHEELBASE AND SPACING, AND WHEEL CONTACT AREA. THIS INFORMATION SHALL BE SUBMITTED TO THE EOR ON A CASE-BY-CASE BASIS. IF THE EQUIPMENT LOADING REQUIRES ADDITIONAL SUPPORT, THE CONTRACTOR SHALL FURNISH THE SUPPLEMENTARY STRUCTURE AT NO COST TO THE OWNER.

LOADS SUSPENDED FROM THE STRUCTURE

1. THE CONTRACTOR SHALL COORDINATE AND PROVIDE SUFFICIENT SUPPORT FRAMING FOR ITEMS SUSPENDED FROM THE STRUCTURE (DUCTWORK, CONDUIT, PIPING, LIGHTS, CEILING, ETC) TO DISTRIBUTE LOADING THROUGHOUT THE STRUCTURE SUCH THAT THE DESIGN SUPERIMPOSED LOAD ALLOWANCE IDENTIFIED IS NOT EXCEEDED FOR ANY STRUCTURAL ELEMENT.
2. IF THE CONTRACTOR DETERMINES THAT LOADS SUSPENDED WILL EXCEED THE IDENTIFIED LOADING LIMITS FOR ANY STRUCTURAL ELEMENT, THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ELEMENT FOR REVIEW PRIOR TO INSTALLING THE LOADS.
3. LOADS SUSPENDED FROM HANGER TABS ON COMPOSITE STEEL FLOOR DECKING SHALL NO EXCEED 50 POUNDS AT ANY SINGLE LOCATION.
4. LOADS SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER EXCEPT AS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

SUBMITTALS

1. 20 WORKING DAYS PRIOR TO SUBMITTING SHOP DRAWINGS THE CONTRACTOR SHALL SUBMIT FOR EOR REVIEW, A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SHOP DRAWINGS AND THE DATE THE SHOP DRAWINGS WILL BE RECEIVED BY THE EOR. THE EOR SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE EOR. IN ACCORDANCE WITH THE SHOP DRAWING SCHEDULE, THE EOR WILL RETURN THE SHOP DRAWING ITEMS WITHIN 10 WORKING DAYS AFTER HAVING RECEIVED THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
3. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/EOR. NON-CONFORMING DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. THE CONTRACTOR IS TO STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING HAVE BEEN ADDRESSED:
   A. THE SHOP DRAWING IS BASED ON THE LATEST DESIGN DOCUMENT.
   B. THE ARCHITECT'S AND EOR'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
   C. THE WORK IS COORDINATED AMONG ALL CONSTRUCTION TRADES.
   D. REVISIONS FROM PREVIOUS SUBMITTALS ARE CLEARLY MARKED BY CIRCLING OR CLOUDS
   E. SUBMITTAL IS COMPLETE
   F. SUBMITTAL DOES NOT INCLUDE SUBSTITUTION REQUESTS
   G. SUBMITTAL SHALL INCLUDE A STAMP INDICATING THE PROJECT NAME AND LOCATION, SUBMITTAL NUMBER AND SPECIFICATION SECTION NUMBER
4. FOR COMPONENTS THAT REQUIRED ENGINEERING BY THE CONTRACTOR (REFER TO THE DELEGATED DESIGN NOTES), PROVIDE A NOTE ON EACH SHOP DRAWING, WRITTEN AND SIGNED BY THE SUPPLIER'S ENGINEER, INDICATING THAT THE SHOP DRAWING IS IN CONFORMANCE WITH THE CALCULATIONS MADE BY THE SUPPLIER'S ENGINEER.
5. THE FOLLOWING ITEMS REQUIRE SUBMITTALS FOR STRUCTURAL REVIEW:
   A. CONCRETE REINFORCEMENT
   B. CONCRETE MIX DESIGNS
   C. ALL DELEGATED DESIGN COMPONENTS (SEE DELEGATED DESIGN NOTES)
6. IN ADDITION TO THE ABOVE LISTED SUBMITTALS, THE FOLLOWING SUBMITTALS SHALL BE PROVIDED:
   A. LAYOUT OF EMBEDDED ITEMS (PLATES, ANGLES, BOLTS, ETC) OR ITEMS ATTACHED TO THE STRUCTURAL FRAME FOR BUILDING CLADDING ATTACHMENT OR ATTACHMENT OF OTHER ITEMS.
   B. LAYOUT OF MECHANICAL, ELECTRICAL AND PLUMBING OPENINGS IN FLOOR SLABS/ROOF.
   C. LAYOUT OF PENETRATIONS IN BEAMS AND JOISTS
7. OMISSION OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS FROM SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FURNISHING THESE MATERIALS REGARDLESS OF WHETHER THE SUBMITTALS HAVE BEEN REVIEWED.
8. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR SIGNIFIES THE CONTRACTOR'S ACCEPTANCE OF ALL THE INFORMATION SHOWN "AS IS". THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED.
9. ISSUED DRAWINGS TAKE PRECEDENCE OVER ANY ELECTRONIC INFORMATION PROVIDED. ALL REVISIONS TO THE CONTRACT DOCUMENTS (ADDENDA, SUPPLEMENTS, ETC) ARE NOT NECESSARILY INCLUDED IN THE ELECTRONIC FILES.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS, INCLUDING THE LATEST REVISIONS, AND TO DISTRIBUTE THESE TO ALL SUBCONTRACTORS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
11. THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE EOR.
12. ALL SUBMITTALS SHALL BE SUBMITTED IN ELECTRONIC PDF FORMAT.

DELEGATED DESIGN

1. THE CONTRACTOR SHALL EMPLOY OR RETAIN THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION TO DESIGN AND DETAIL THE FOLLOWING COMPONENTS:
   A. FOUNDATION AND EARTHWORK:
      a. TEMPORARY EXCAVATION SUPPORT
      b. UNDERPINNING AND PERMANENT EXCAVATION SUPPORT
   B. DIVISION 3:
      a. ARCHITECTURAL COMPONENTS
      b. FORMWORK FOR CONCRETE CONSTRUCTION
      c. SHORING FOR CONCRETE CONSTRUCTION
   C. EXTERIOR BUILDING ENVELOPE:
      a. CLADDING ATTACHMENTS TO PRIMARY STRUCTURAL SYSTEM OR CLADDING BACKUP SYSTEM.
      b. ALL OTHER CLADDING SYSTEMS SUCH AS METAL PANELS, COMPOSITE WOOD PANELS, ETC.
2. DRAWING SUBMITTALS AND CALCULATIONS FOR DELEGATED DESIGN COMPONENTS SHALL BE REVIEWED AND SEALED BY THE DELEGATE ENGINEER PRIOR TO THE LIMITED REVIEW BY THE PROJECT'S EOR. DELEGATED DESIGN SUBMITTALS WILL BE REVIEWED ONLY FOR DESIGN LOADING CONFORMANCE TO SPECIFIED PROJECT PERFORMANCE CRITERIA AS WELL AS IMPACT TO THE PRIMARY STRUCTURE FROM THE COMPONENT ATTACHMENTS. THE EOR SHALL BE ENTITLED TO RELY ON THE ADEQUACY, ACCURACY AND COMPLETENESS OF THE DESIGN PROVIDED BY THE CONTRACTOR.
3. THE DELEGATE ENGINEER IS RESPONSIBLE FOR CODE CONFORMANCE FOR ALL INDIVIDUAL PARTS AND INTERNAL CONNECTIONS OF THE DELEGATED DESIGN COMPONENTS.
4. SHOP DRAWINGS FOR DELEGATED DESIGN COMPONENTS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON PRIMARY AND SECONDARY STRUCTURAL ELEMENTS IN ENGLISH IMPERIAL UNITS ALONG WITH STRUCTURAL DEFLECTIONS TO COMPONENTS THE ARE ABLE TO ACCOMMODATE.
5. CALCULATIONS SUBMITTED SHALL CLEARLY CROSS REFERENCE THE SHOP DRAWINGS WITH SPECIFIC DETAIL REFERENCES.
6. THE EOR REVIEW OF DELEGATED DESIGN SUBMITTALS DOES NOT ABSOLVE THE CONTRACTOR AND COMPONENT DESIGN ENGINEER OF THE RESPONSIBILITY TO PROVIDE COMPLETE AND ACCURATE ANALYSIS AND DESIGN CONFORMING TO THE PROJECT DESIGN CRITERIA AND THE GOVERNING BUILDING CODES AND STANDARDS.

DESIGN CRITERIA

1. PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS.
2. BUILDING CODE: THE **2012** INTERNATIONAL BUILDING CODE (IBC) WITH **2014** INDIANA BUILDING CODE AMENDMENTS.
   A. DESIGN STANDARDS:
      1. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), 7-**10** MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   B. MATERIAL STANDARDS:
      1. AMERICAN CONCRETE INSTITUTE (ACI) 318-**11** BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
      2. AMERICAN CONCRETE INSTITUTE (ACI) 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE.
      3. AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA), NDS- **2012** NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2005 SUPPLEMENT.
      4. ALL OTHER APPLICABLE CODES AS REFERENCED IN CHAPTER 35 OF THE **2012** IBC
3. GRAVITY LOADS:
   A. DEAD LOAD OF THE STRUCTURE: ACTUAL SELF-WEIGHT
   B. SUPERIMPOSED DEAD LOAD:
      1. ROOFING MATERIAL: 10 PSF
4. SNOW LOAD:
   A. GROUND SNOW LOAD, P_G: 20 PSF
   B. LOW-SLOPE ROOF SNOW LOAD, P_F: 20 PSF
   C. SNOW IMPORTANCE FACTOR, I_S: 0.80
   D. SNOW EXPOSURE FACTOR, C_E: 0.9
   E. THERMAL FACTOR, C_T: 1.2
5. WIND LOAD CRITERIA:
   A. BUILDING RISK CATEGORY: I
   B. WIND EXPOSURE: B
   C. TOPOGRAPHIC FACTOR, K_{ZT}: 1.0
   D. WIND DIRECTIONALITY FACTOR, K_D: 0.85
6. SEISMIC LOAD CRITERIA:
   A. BUILDING RISK CATEGORY: I
   B. SEISMIC IMPORTANCE FACTOR, I_E: 1.0
   C. SITE CLASS: D
   D. MAPPED SPECTRAL RESPONSE ACCELERATION: S_S = 0.165, S_1 = 0.088
   E. DESIGN SPECTRAL RESPONSE ACCELERATION: S_{DS} =0.176, S_{D1} = 0.141
   F. SEISMIC DESIGN CATEGORY: C
7. SERVICEABILITY CRITERIA:
   A. LIVE LOAD DEFLECTION: SPAN/360
   B. TOTAL LOAD DEFLECTION: SPAN/240
   C. PERIMETER EDGE MEMBERS NOT SUPPORTING MASONRY:
      1. LIVE LOAD DEFLECTION: SPAN/480
      2. TOTAL LOAD DEFLECTION: SPAN/360
   D. LATERAL DRIFT DUE TO WIND LOADS (10 YEAR MRI): H/400

EARTHWORK AND FOUNDATIONS

1. BUILDING FOUNDATION DESIGN IS BASED ON THE FOLLOWING NET ALLOWABLE BEARING PRESSURES:
   A. 1500 PSF FOR CONTINUOUS WALL FOOTINGS. THIS VALUE IS ASSUMED AND SHALL BE CONFIRMED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
2. IF ACTUAL ALLOWABLE BEARING PRESSURES ARE FOUND TO BE LESS THAN THE SPECIFIED VALUES, THE CONTRACTOR SHALL NOTIFY THE EOR IMMEDIATELY AND SHALL NOT PROCEED WITH FOUNDATION CONSTRUCTION WITHOUT REVIEW AND APPROVAL OF THE EOR.
3. DESIGN PARAMETERS FOR BELOW GRADE WALLS ARE BASED ON FREE DRAINING GRANULAR BACKFILL MATERIAL BEHIND THE WALLS A SET FORTH IN THE GEOTECHNICAL REPORT
4. BUILDING FOUNDATION SHALL BE PLACED ON FIRM, UNDISTURBED NATURAL SOIL OR ON ENGINEERED FILL MATERIAL. FOR AREAS REQUIRING ENGINEERED FILL, THE MATERIAL SHALL CONSIST OF CLEAN GRANULAR FILL COMPACTED A SET FORTH IN THE EARTHWORK SPECIFICATIONS AND THE GEOTECHNICAL REPORT AND PLACED IN LIFTS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER ON SITE AND IN THE GEOTECHNICAL REPORT. SOIL BEARING PRESSURE OF THE ENGINEERED FILL SHALL BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER ON SITE PRIOR TO CONSTRUCTION.
5. SUBBASE MATERIAL UNDER SLABS-ON-GRADE SHALL BE CLEAN GRANULAR FILL COMPACTED AS SET FORTH IN THE EARTHWORK SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
6. BACKFILL AGAINST GRADE BEAMS AND FROST WALLS SHALL BE PLACED EVENLY ON BOTH SIDES
7. ANY FOUNDATION INSULATION, WATERPROOFING, VAPOR BARRIER, ETC SHOWN ON THE STRUCTURAL DRAWINGS IS FOR INFORMATION ONLY UNLESS SPECIFICALLY NOTED OTHERWISE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REVIEW THE ARCHITECTURAL DOCUMENTS FOR EXACT LOCATIONS, PLACEMENT AND MATERIAL REQUIREMENTS.
8. NO RECYCLED MATERIAL MAY BE USED AS BACKFILL BELOW THE BUILDING FOUNDATIONS OR SLABS. ALL BACKFILL MATERIAL SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE.
9. UNDERCUTTING OF THE SOIL FOR FOUNDATION PLACEMENT MAY BE REQUIRED. THE STRUCTURAL DRAWINGS MAY NOT INDICATE THE SCOPE OF UNDERCUTTING, FILL, BAD SOIL OR ROCK REMOVAL THAT MAY BE REQUIRED TO ATTAIN THE DESIGN SOIL BEARING PRESSURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE GEOTECHNICAL REPORT BEFORE BIDDING TO THE EXTENT OF EXCAVATION AND COMPACTION THAT MAY BE REQUIRED TO MEET THE DESIGN CRITERIA.
10. PLACE FOOTINGS THE SAME DAY EXCAVATIONS ARE OPENED. IF THIS IS NOT POSSIBLE, ADEQUATELY PROTECT THE EXPOSED MATERIAL IN THE BASES OF THE FOOTING EXCAVATIONS FROM ANY DETRIMENTAL CHANGE IN CONDITION SUCH AS FROM DISTURBANCE, RAIN, FREEZING OR EXTREME DRYING. SURFACE RUNOFF SHALL NOT BE ALLOWED TO ENTER THE EXCAVATIONS.
11. A REPORT CERTIFIED BY THE GEOTECHNICAL ENGINEER ON SITE SHALL BE FURNISHED TO THE ARCHITECT / EOR VERIFYING THAT ALL FOUNDATIONS WERE PLACED ON MATERIAL CAPABLE OF SUSTAINING THE DESIGN PRESSURES.
12. IF DEWATERING IS REQUIRED, SUMPS SHALL NOT BE PLACED WITH THE FOUNDATION EXCAVATION.
13. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR PERMITTED BY THE EOR IN WRITING, ALL FOOTINGS SHALL BE FORMED AND EARTH-FORMED/TRENCHED FOOTINGS SHALL NOT BE PERMITTED.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE " AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ", WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO THE CONCRETE SCHEDULE FOR REQUIRED 28-DAY COMPRESSIVE STRENGTHS.
3. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED. FOR SURFACE FINISHES AND OTHER REQUIREMENTS, REFER TO THE CONCRETE SPECIFICATIONS. CONCRETE MIX PROPORTIONING SHALL BE SUBMITTED TO THE ARCHITECT / EOR FOR REVIEW AND APPROVAL.
4. THE USE OF CALCIUM CHLORIDE AND OTHER CHLORIDE CONTAINING AGENTS IS PROHIBITED. THE USES OF RECYCLED CONCRETE IS PROHIBITED. PLACEMENT WITHIN AND CONTACT BETWEEN ALUMINUM ITEMS, INCLUDING ALUMINUM CONDUIT, AND CONCRETE IS PROHIBITED.
5. DETAILS OF FABRICATION OF REINFORCEMENT, HANDLING AND PLACEMENT OF THE CONCRETE, CONSTRUCTION OF FORMS AND PLACEMENT OF REINFORCEMENT, NOT OTHERWISE COVERED BY THE PLANS AND SPECIFICATIONS, SHALL COMPLY WITH THE EDITION OF THE ACI CODE LISTED IN THE DESIGN STANDARDS GENERAL NOTES AND CRTS REQUIREMENTS.
6. SEE ARCHITECTURAL DRAWINGS FOR CHAMFER REQUIREMENTS FOR CORNERS OF CONCRETE. WHERE NOT INDICATED, PROVIDE 3/4 " CHAMFERS ON ALL EXPOSED EDGES OF CONCRETE. COORDINATE WITH THE ARCHITECTURAL DRAWINGS.
7. CORED HOLES IN CONCRETE WALLS, SLABS ETC., SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW WRITTEN APPROVAL FROM THE ARCHITECT / EOR.
8. ALL MISCELLANEOUS ITEMS TO BE INSTALLED IN ANY CONCRETE WORK, SUCH AS PIPES, ELECTRICAL CONDUITS, DOVETAIL ANCHOR SLOTS, REGLETS ETC., SHALL BE PROPERLY LOCATED, INSTALLED AND CHECKED BY THE CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE. REFER TO THE ARCHITECTURAL AND MEP DRAWINGS FOR THE EXACT EXTENT AND LOCATION OF THESE ITEMS THAT ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
9. PROVIDE SLEEVES FOR ALL PIPE AND CONDUIT PENETRATIONS IN FOUNDATION WALLS AND WALL OPENINGS TO TOTALLY SEPARATE THE PIPES FROM THE CONCRETE. REFER TO TYPICAL DETAILS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE PLACING SEQUENCINGS, SIZE AND CONSTRUCTION PROCEDURES, AND ACCOUNTING FOR TEMPERATURE DIFFERENTIALS AND SHRINKAGE OCCURRING DURING THE CONSTRUCTION PHASE.
11. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE IN CONCRETE WALLS, FOOTINGS, OR SLABS UNLESS SHOWN OR NOTED IN THE CONTRACT DOCUMENTS. VERTICAL JOINTS ARE PERMITTED IN CONCRETE SLABS, WALLS, AND WALL FOOTINGS. REFER TO TYPICAL DETAILS.
12. FORMS AND FALSEWORK SUPPORTING ANY VERTICAL LOADS SHALL REMAIN IN PLACE UNTIL THE CONCRETE HAS ATTAINED ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS UNLESS RESHORES ARE INSTALLED IN SUFFICIENT QUANTITIES TO TRANSFER THE LOADS TO ADEQUATE FOUNDATIONS OR SUBSTRATE WITHOUT OVERSTRESSING THE PARTIALLY CURED STRUCTURE. IN NO CASE SHALL THE SUPERIMPOSED LOAD ON RELATIVELY NEW CONCRETE EXCEED 50 POUNDS PER SQUARE FOOT UNLESS PROPER SHORING TO SUITABLE FOUNDATIONS OR SUBSTRATE IS INSTALLED AS REQUIRED BY THE EOR.
13. ALL CONSTRUCTION JOINTS IN CONCRETE WALLS, FOOTINGS, OR SLABS SHALL BE PROVIDED WITH A KEYWAY. THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY WETTED AND ALL LAITANCE REMOVED IN ADDITION, THE JOINT SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF CEMENT GROUT OR BONDING AGENT IMMEDIATELY BEFORE PLACING CONCRETE.
14. CONTROL JOINTS, IF NOT SHOWN ON THE DRAWINGS, SHALL BE PROVIDED IN ALL SLABS-ON-GRADE. THE CONTRACTOR SHALL SUBMIT A CONTROL JOINT LAYOUT PLAN FOR ARCHITECT / EOR REVIEW AND APPROVAL PRIOR TO PLACING CONCRETE. SEE TYPICAL SLAB-ON-GRADE DETAILS FOR ADDITIONAL INFORMATION. THE JOINTS SHALL BE LOCATED ON EACH COLUMN LINE, AT RE-ENTRANT CORNERS AND THE JOINT SPACING SHALL NOT EXCEED THE FOLLOWING:
   A. 15 FEET IN EITHER DIRECTION FOR 6" THICK SLABS
   B. 1.5:1 MAXIMUM PANEL LENGTH TO WIDTH RATIO
15. THE SAW CUTTING OF CONTROL JOINTS IN A SLAB-ON-GRADE SHALL BEGIN WHEN THE CUTTING ACTION WILL NOT TEAR, ABRADE OR OTHERWISE DAMAGE THE SURFACE AND BEFORE THE CONCRETE DEVELOPS RANDOM SHRINKAGE CRACKING. SAW CUTTING SHALL BEGIN AND FINISH WITHIN 4 TO 12 HOURS AFTER THE SURFACE FINISHING IS COMPLETE.
16. IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 306R COLD WEATHER CONCRETING.
17. IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 305R HOT WEATHER CONCRETING.
18. MAINTAIN A MAXIMUM SLOPE OF 1 VERTICAL TO 2 HORIZONTALS BETWEEN BEARING ELEVATIONS OF ADJACENT FOOTINGS TO AVOID UNDERMINING FOUNDATIONS UNLESS NOTED OTHERWISE IN THE PLANS.
19. ALL CAST-IN-PLACE CONCRETE WILL EXPERIENCE VARIATIONS OF CRACKING. ANY ELEMENT EXPOSED TO DIRECT WEATHER AND/OR TEMPERATURE VARIATIONS DURING CONSTRUCTION OR IN THE FINAL CONDITION IS TO BE TREATED AND REGULARLY MAINTAINED TO PREVENT PROPAGATION OF CRACKS AND WATER PENETRATION. THE CONTRACTOR SHALL DEVELOP A REGULAR MAINTENANCE PROGRAM AND SUBMIT IT TO THE OWNER.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315, ACI 318 AND CRTS.
2. REINFORCEMENT SHALL HAVE DEFORMED SURFACES IN ACCORDANCE WITH ASTM A615 WITH MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. WELDED WIRE REINFORCING SHALL BE SMOOTH CONFORMING TO ASTM A185.
4. THE SHOP DRAWINGS FOR REINFORCING STEEL SHALL INCLUDE SCALE ELEVATIONS OF ALL CONCRETE WALLS AS APPLICABLE.
5. PROVIDE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS. REFER TO TYPICAL DETAILS.
6. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER) UNLESS OTHERWISE NOTED:
   A. SURFACES NOT FORMED AND IN CONTACT WITH SOIL: 3 "
   B. FORMED SURFACES IN CONTACT WITH SOIL OR WEATHER: 2 "
   C. WALL REINFORCEMENT #5 AND SMALLER: 1 ½"
   D. WALL REINFORCEMENT #6 AND LARGER: 2 "
7. PROVIDE ADDITIONAL REINFORCING BARS AROUND ALL OPENINGS IN CONCRETE SLABS AND WAL

POST-INSTALLED ANCHORS

1. ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.
2. ANCHOR FINISH SHALL BE CARBON STEEL FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURE.
3. POST-INSTALLED ANCHORS SHALL NOT BE INSTALLED IN CONCRETE UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS AND HAVE CURED FOR AT LEAST 21 DAYS.
4. POST-INSTALLED ANCHORS SHALL NOT BE INSTALLED IN CONCRETE MASONRY UNTIL THE MORTAR AND GROUT HAVE ATTAINED THEIR SPECIFIED MINIMUM 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS AND HAS CURED FOR AT LEAST 21 DAYS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PLACEMENT OF ANCHORS IN CONCRETE MASONRY WALLS OR ANY CONCRETE MEMBER AND INSTALL THEM IN ACCORDANCE WITH ALL THE MANUFACTURER'S REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, EDGE DISTANCE, SPACING, NUMBER OF ANCHORS IN A CELL, ETC.
6. THE CONTRACTOR SHALL LOCATE, BY NON-DESTRUCTIVE MEANS, AND AVOID ALL EXISTING REINFORCEMENT PRIOR TO INSTALLATION OF THE ANCHORS. IF THE EXISTING REINFORCING LAYOUT PROHIBITS THE INSTALLATION OF THE ANCHORS AS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE EOR.
7. PROOF TESTING OF ADHESIVE AND EXPANSION ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
8. EXPANSION ANCHORS:
   A. EXPANSION ANCHORS IN CONCRETE OR GROUTED CONCRETE MASONRY, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI "KWIK BOLT TZ2". EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
   B. MECHANICAL ANCHORS IN HOLLOW CONCRETE MASONRY, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI HLC. EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
9. ADHESIVE ANCHORS FOR SOLID SUBSTRATES (THREADED ROD AND REINFORCING BARS):
   A. ADHESIVE ANCHORS FOR CONCRETE, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI "HIT-HY 200 V3". EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
   B. ADHESIVE ANCHORS FOR GROUTED MASONRY, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI "HIT-HY 200". EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
   C. THREADED ANCHORS SHALL BE ASTM F1554 GRADE 36 OR 55 RODS FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES.
   D. REINFORCING STEEL NOTED AS ADHESIVE OR EPOXY ANCHORED INTO EXISTING SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM EMBEDMENT DEPTHS UNLESS OTHERWISE NOTED:
      1. #3 - 3 3/8"
      2. #4 - 4 ½"
      3. #5 - 5 5/8"
      4. #6 - 6 ¾"
      5. #7 - 7 7/8"
      6. #8 – 9"
      7. #9 – 10 1/8"
      8. #10 – 11 ¼"

DIMENSIONAL LUMBER FRAMING

1. LUMBER AND ITS FASTENINGS SHALL CONFORM WITH THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
2. LUMBER FOR EXTERIOR WALLS, INTERIOR LOADBEARING WALLS, SHEAR WALLS, HEADERS, BEAMS, TOP AND BOTTOM PLATES, AND ALL OTHER STRUCTURAL FRAMING SPECIES AND GRADE SHALL BE IN ACCORDANCE WITH THE DIMENSIONAL LUMBER SCHEDULE.
3. SUBJECT TO THE REVIEW AND ACCEPTANCE BY THE EOR, NON-STRUCTURAL WALLS SHALL BE OF CONSTRUCTION GRADE OR NO. 2 SPRUCE PINE FIR.
4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY, EXPOSED TO EARTH OR EXPOSED TO WEATHER IN ITS PERMANENT APPLICATION, SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AWPA SPECIFICATIONS.
5. LOADBEARING WALL AND SHEAR WALL STUDS SHALL NOT BE LOADED WITH ANY CONSTRUCTION LOADS UNTIL SHEATHING HAS BEEN FULLY INSTALLED AND NAILED TO AT LEAST ONE FACE OF THE STUDS. IF THE LOADBEARING WALLS MUST BE LOADED PRIOR TO SHEATHING INSTALLATION, THE CONTRACTOR SHALL PROVIDE CONTINUOUS TEMPORARY BRACING AT THE MID-HEIGHT OF ALL STUDS PRIOR TO LOAD APPLICATION.
6. ALL HEADER AND BEAM SUPPORT STUDS AND SHEAR WALL END STUDS SHALL BE BLOCKED CONTINUOUSLY THROUGH THE JOIST CAVITY WITH AN EQUAL NUMBER OF STUDS.
7. BOLT HOLES IN WOOD SHALL BE FITTED WITH STANDARD WASHERS AT THE HEAD AND NUT ENDS.
8. WOOD FRAMING CONNECTIONS SHALL BE MADE WITH HANGERS UNLESS OTHERWISE NOTED. TOE NAILING IS NOT PERMITTED FOR STRUCTURAL FRAMING MEMBERS.
9. FRAMING LAYOUTS ARE PROVIDED TO CONVEY DESIGN INTENT AND CONCEPTS AND SYSTEMS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MATERIAL QUANTITIES AND FINAL LAYOUT AND ALL UNSPECIFIED COMPONENTS REQUIRED FOR CONSTRUCTION.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND STEPS TO ADEQUATELY BRACE THE BUILDING UNTIL ALL DIAPHRAGMS, SHEAR WALLS AND PERMANENT BRACING ARE INSTALLED. LOADBEARING WALLS SHALL BE INSTALLED WITH 2X BLOCKING AT MID-HEIGHT OF AT 4'-6" (WHICHEVER IS THE LESSER SPACING) UNLESS THEY ARE SHEATHED ON AT LEAST ONE FACE WITH WOOD STRUCTURAL PANELS.
11. CONNECTIONS AND FASTENERS FOR PRESERVATIVE TREATED WOOD SHALL BE OF STAINLESS-STEEL MATERIAL. THIS INCLUDES BUT IS NOT LIMITED TO ANCHOR BOLTS, POWDER ACTUATED FASTENERS, NAILS, SCREWS, BOLTS AND METAL FRAMING HARDWARE.

ENGINEERED WOOD FRAMING

1. LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) ELEMENTS SHALL BE COMPOSED OF ULTRASONICALLY AND VISUALLY GRADED VENEERS ARRANGED TO SPECIFIC PATTERNS SUCH THAT NATURALLY OCCURRING DEFECTS HAVE NO CONCENTRATED EFFECT OF THE MEMBER'S PERFORMANCE. ELEMENTS SHALL BE FABRICATED WITH WATERPROOF ADHESIVE, BONDED UNDER PRESSURE AND HEAT.
2. LVL AND PSL MEMBERS SHALL BE FURNISHED WITH THE FOLLOWING PROPERTIES AND MINIMUM ALLOWABLE STRESSES:
   A. MODULUS PF ELASTICITY (E) = 2,200,000 PSI
   B. FLEXURAL STRESS (F_B) = 2,900 PSI
   C. COMPRESSION PERPENDICULAR TO THE GRAIN (F_{CP}) = 575 PSI
   D. COMPRESSION PARALLEL TO THE GRAIN (F_C) = 2,900 PSI
   E. SHEAR STRENGTH (F_V) = 290 PSI
3. HEEL CUTS ON BEAMS SHALL NOT OVERHANG THE INSIDE FACE OF THE SUPPORT MEMBER.
4. MEMBERS SHALL BE SECURELY BRACED DURING CONSTRUCTION. TEMPORARY BRACING SHALL BE ANCHORED TO THE GROUND, FOUNDATION, A BRACED WALL OR OTHER COMPLETED, STABLE SECTION OF THE STRUCTURE.
5. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING TEMPORARY BRACING WHEN APPLYING SHEATHING. REMOVE THE BRACING AS THE SHEATHING IS ATTACHED.
6. MEMBERS SHALL BE PROTECTED FROM THE WEATHER WHILE IN STORAGE. CARE SHALL BE EXERCISED DURING HANDLING TO PREVENT DAMAGE.
7. THE CONTRACTOR SHALL NOT ALTER LVL AND PSL MEMBERS WITH NOTCHES OR HOLES WITHOUT THE AUTHORIZATION OF THE EOR. ALL NOTCHES AND HOLES SHALL MEET THE MANUFACTURER'S GUIDELINES AND REQUIREMENTS.
8. ALL ENGINEERED LUMBER EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.
9. WHERE MULTIPLE PLIES OF LVL MEMBERS ARE TO BE JOINED TO CREATE ONE WIDER MEMBER, THE PLIES SHALL BE JOINED WITH SIMPSON SDS SCREWS (OR EQUIVALENT APPROVED BY THE EOR). THE NUMBER AND PATTERN OF SCREWS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LOAD TABLES FOR THE HIGHEST RATED CAPACITY. LVL PLIES SHALL NOT BE NAILED TOGETHER.

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SUITE 300, FISHERS, IN 46038
317.617.4270 jpsconsultingengineers.com

PROJECT:

MSD WAYNE TOWNSHIP

SALT STORAGE BUILDING

7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

SCOPE DRAWINGS:

These drawings indicate the general scope of the project. They are intended to describe the design and construction of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

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GENERAL NOTES

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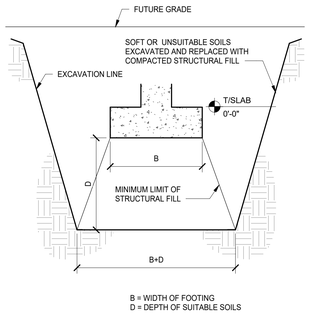


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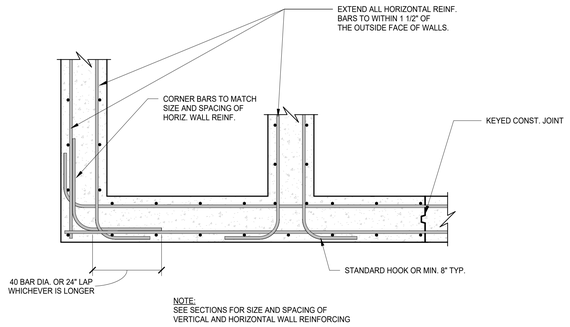
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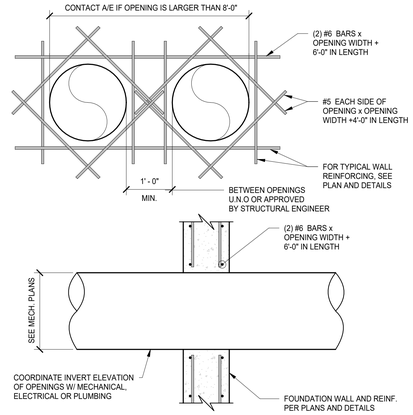
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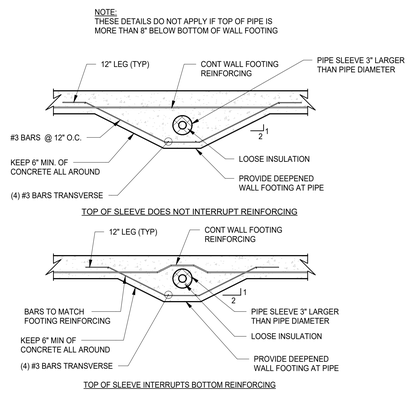
1 S003 FOUNDATION UNDERCUTTING DETAIL
1/2" = 1'-0"



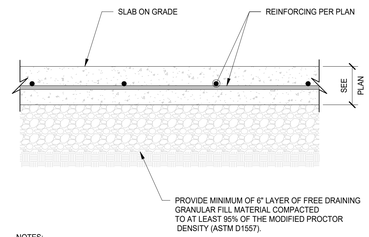
2 S003 TYPICAL CONCRETE WALL REINFORCEMENT AT CORNER AND INTERSECTION
3/4" = 1'-0"



3 S003 TYPICAL FOUNDATION WALL PENETRATION DETAIL
3/4" = 1'-0"



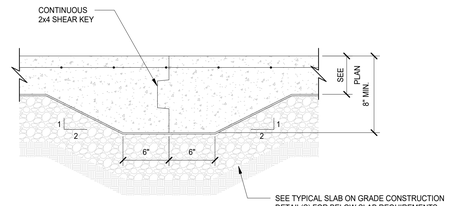
4 S003 TYPICAL PIPE SLEEVE THROUGH WALL FOOTING
3/8" = 1'-0"



NOTES:

1. SEE CONCRETE GENERAL NOTES AND SPECIFICATION SECTION 033000 - CAST-IN-PLACE CONCRETE FOR SLAB FINISH AND CURING REQUIREMENTS
2. SEE SPECIFICATION SECTION 312000 - EARTH MOVING FOR SUBGRADE MATERIAL AND COMPACTION REQUIREMENTS.

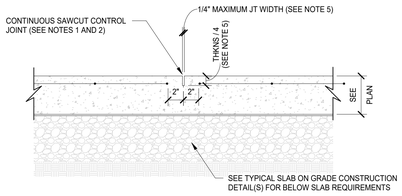
5 S003 TYPICAL SLAB ON GRADE CONSTRUCTION
1 1/2" = 1'-0"



NOTES:

1. CONTRACTOR SHALL COORDINATE CONSTRUCTION JOINTS SUCH THAT THEY COINCIDE WITH CONTROL JOINT LOCATIONS SHOWN ON PLANS. SEE PLANS FOR LOCATIONS WHERE FULL-DEPTH CONSTRUCTION JOINTS ARE REQUIRED.
2. APPLY LIQUID BONDBREAKER TO FULL DEPTH OF CONSTRUCTION JOINT.
3. PREPARE AND SEAL JOINT AS SPECIFIED IN DIVISION 7 OF THE PROJECT MANUAL.

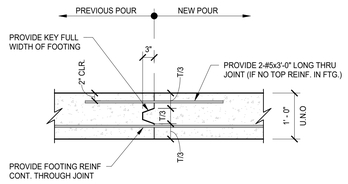
6 S003 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT
1 1/2" = 1'-0"



NOTES:

1. SAWCUT JOINT AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS. THE CONCRETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLODGE AGGREGATE, AND WHEN THE EDGES OF THE CUT DO NOT RAVEL. COMPLETE SAWCUTTING BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING.
2. PREPARE AND SEAL JOINT AS SPECIFIED IN DIVISION 7 OF THE PROJECT MANUAL.
3. CURLING OF THE SLAB ON GRADE WILL OCCUR AT CONTROL JOINT LOCATIONS. FOR SLABS WITH FLOOR COVERINGS, GRINDING MAY BE REQUIRED FOR PROPER INSTALLATION OF FLOOR COVERING.
4. LAYOUT CONTROL JOINT LOCATIONS BEFORE SLAB CONSTRUCTION AND DISCONTINUE ANY SLAB REINFORCING AT JOINTS.

7 S003 TYPICAL SLAB ON GRADE CONTROL JOINT
1 1/2" = 1'-0"



8 S003 WALL FOOTING CONSTRUCTION JOINT
3/4" = 1'-0"

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PROJECT:
MSD WAYNE TOWNSHIP
SALT STORAGE BUILDING
7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

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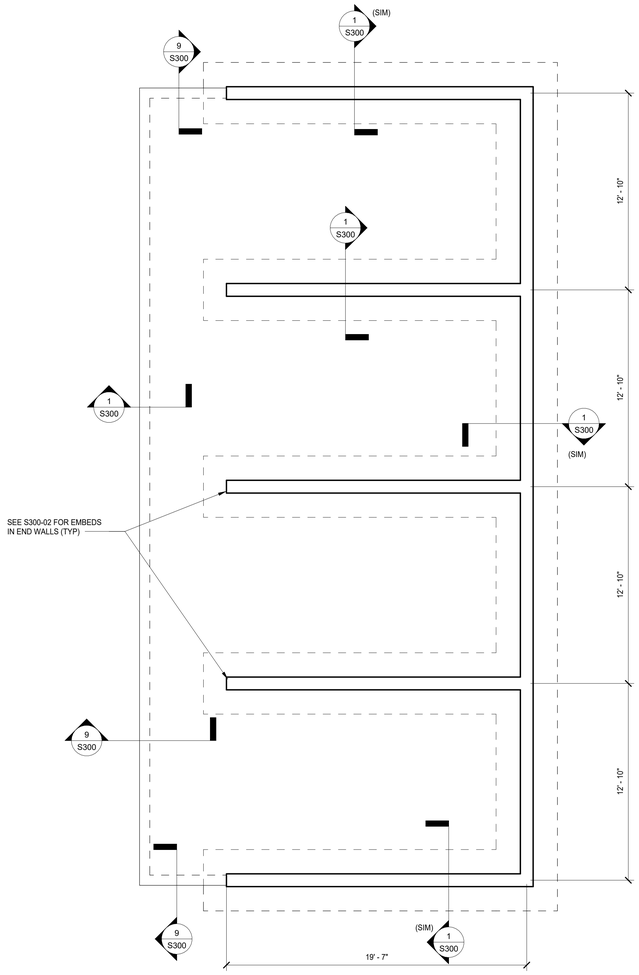
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STATE OF INDIANA
PROFESSIONAL ENGINEER

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S003

PROJECT NUMBER
2025093

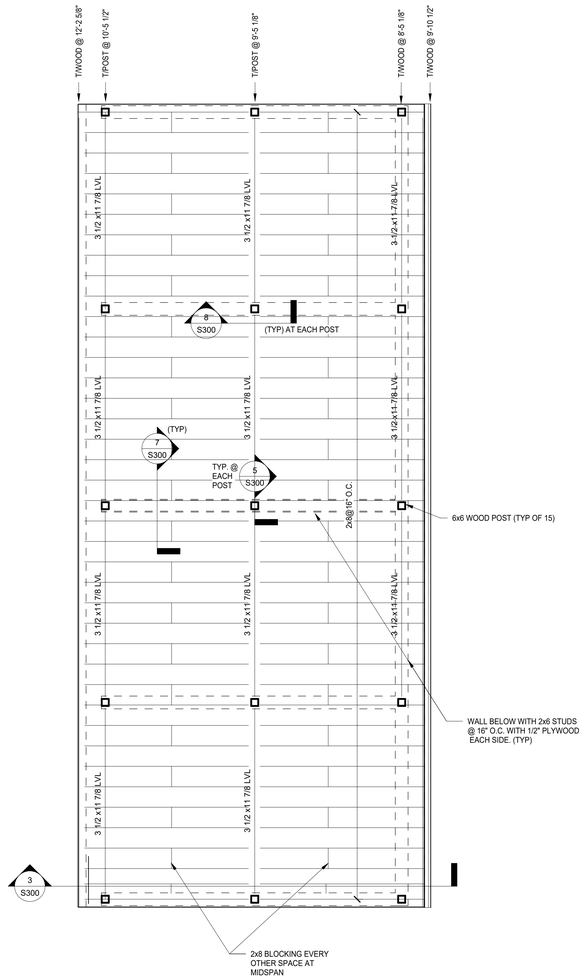


1 S110 FOUNDATION PLAN

1/4" = 1'-0"

PLAN NOTES:

1. REFER TO S001-S003 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. THE SLAB ON GRADE SHALL BE A 8" NORMAL WEIGHT SLAB OVER 6" COMPACTED GRANULAR FILL OVER A PROOF ROLLED SUBGRADE. THE SLAB SHALL BE REINFORCED WITH #5@12" O.C. EACH WAY MIDDLE
3. THE TOP OF ALL FOOTINGS SHALL BE @ -2'-8".
4. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
5. ALL CONCRETE SHALL HAVE A XYPEX ADMIXTURE TO ASSIST WITH PROTECTING THE CONCRETE FROM SALT.



2 S110 ROOF FRAMING PLAN

1/4" = 1'-0"

PLAN NOTES:

1. REFER TO S001-S003 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. ALL WOOD ELEMENTS SHALL BE PRESSURE TREATED LUMBER.
3. ROOF DECK SHALL BE 1/2" APA RATED TONGUE AND GROOVE PLYWOOD GLUED AND NAILED TO ROOF FRAMING. FASTEN TO JOISTS BELOW WITH 8d NAILS AT 10" ON CENTER ALONG EACH JOIST.

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FOUNDATION & ROOF FRAMING PLANS

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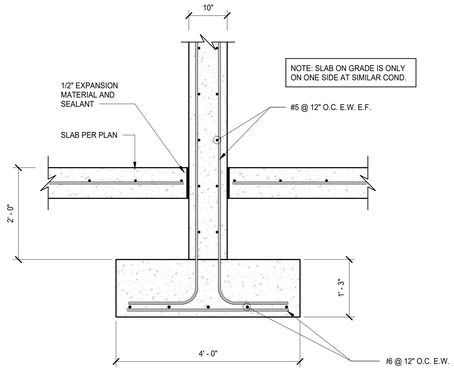
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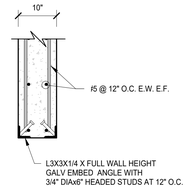
S110

PROJECT NUMBER

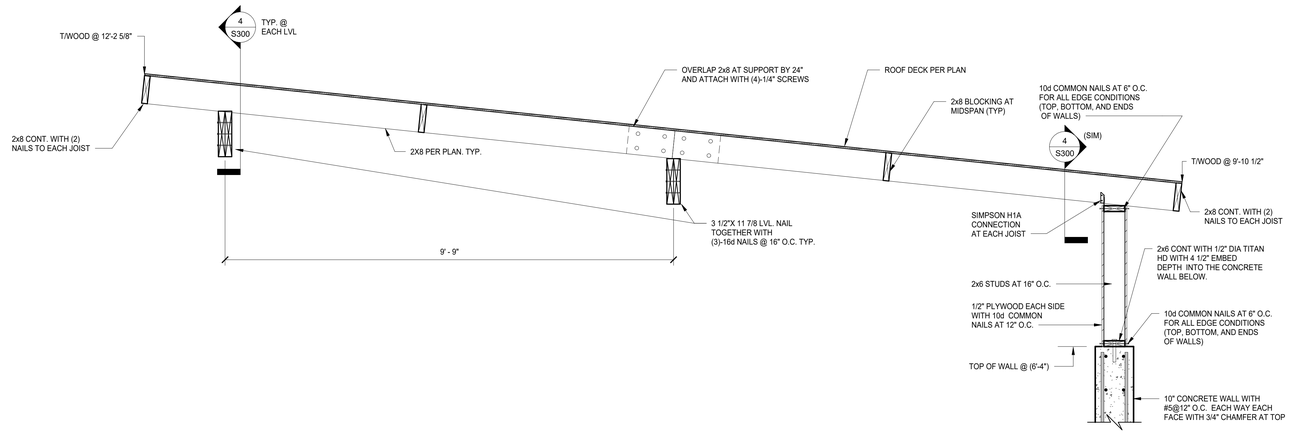
2025093



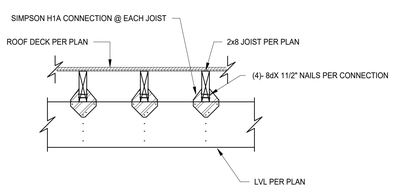
1 S300 SECTION
3/4" = 1'-0"



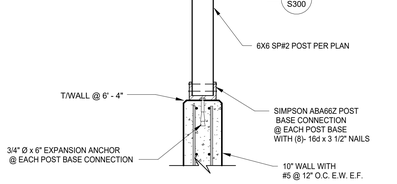
2 S300 SECTION
3/4" = 1'-0"



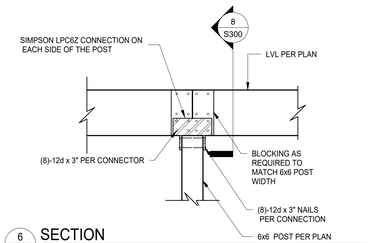
3 S300 SECTION
3/4" = 1'-0"



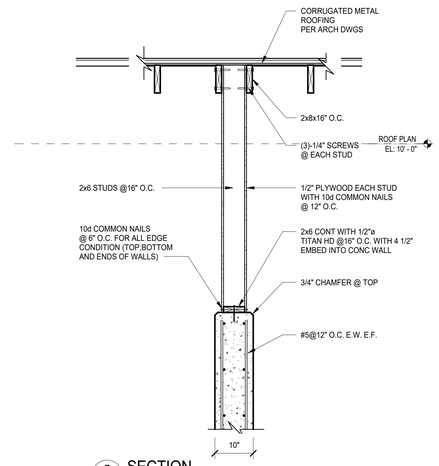
4 S300 SECTION
3/4" = 1'-0"



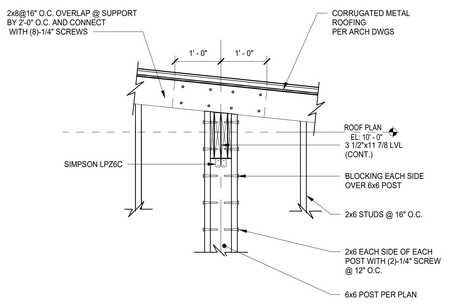
5 S300 SECTION
3/4" = 1'-0"



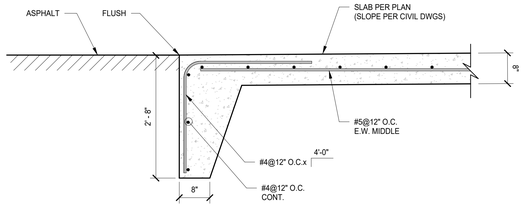
6 S300 SECTION
3/4" = 1'-0"



7 S300 SECTION
3/4" = 1'-0"



8 S300 SECTION
3/4" = 1'-0"



9 S300 SECTION
3/4" = 1'-0"

CSO
8831 Keystone Crossing Indianapolis, IN 46240
317.848.7800 | csoinc.net

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JPS CONSULTING ENGINEERS
11 MUNICIPAL DRIVE
SUITE 300, FISHERS, IN 46038
317.617.4270 jpsconsultingengineers.com

PROJECT:

MSD WAYNE TOWNSHIP

SALT STORAGE BUILDING

7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction materials and systems required.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the Contractor shall furnish all labor and materials required for the proper execution and completion of the work.

REVISIONS:

ISSUE DATE	DRAWN BY	CHECKED BY
10/06/2026	KUA	CES

DRAWING TITLE:

DETAILS

CERTIFIED BY:

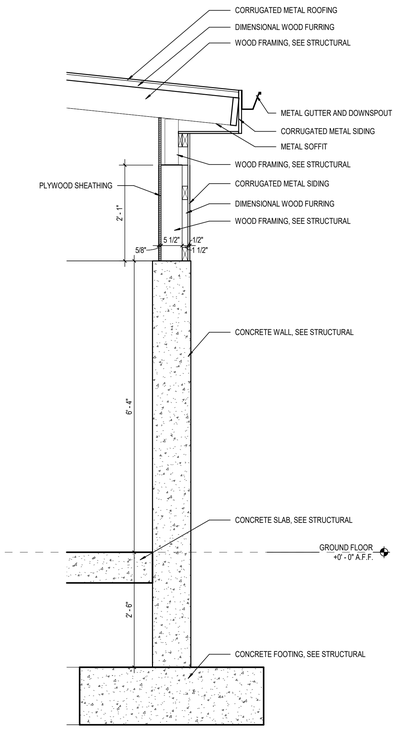


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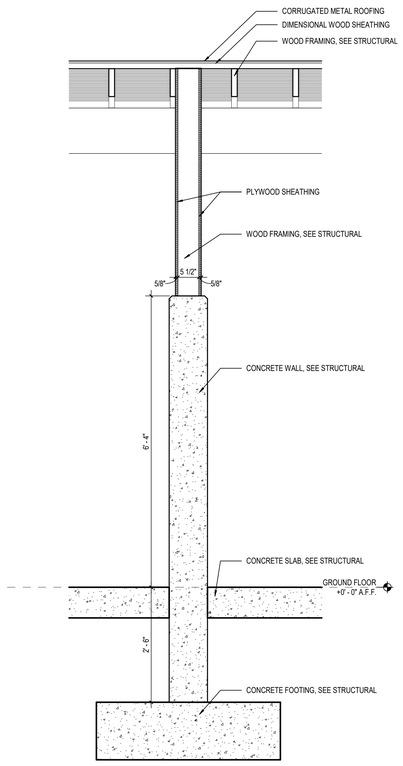
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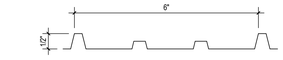
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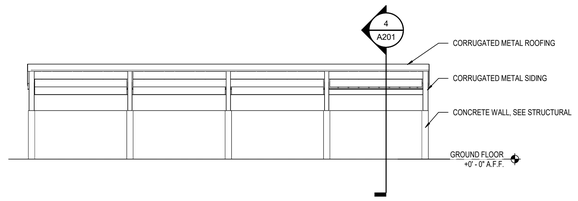
5 A201 WALL SECTION
SCALE: 3/4" = 1'-0"



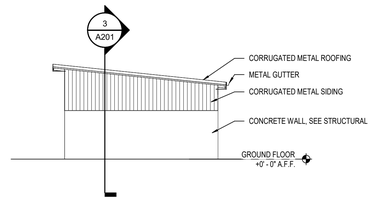
6 A201 WALL SECTION
SCALE: 3/4" = 1'-0"



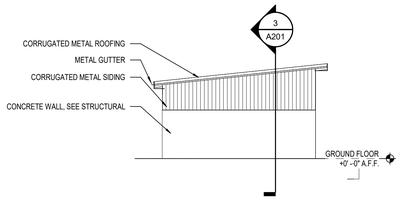
11 A201 CORRUGATED METAL PROFILE
SCALE: 6" = 1'-0"



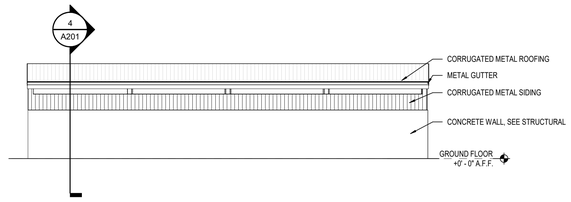
10 A201 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



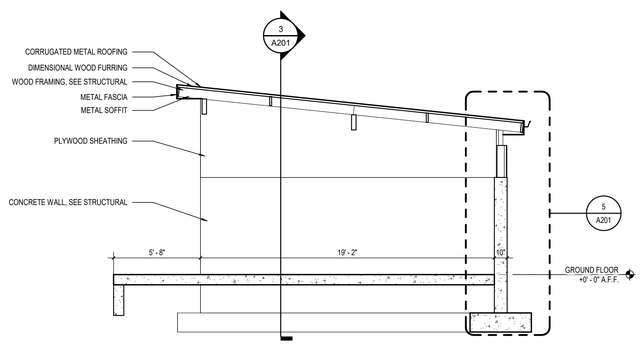
9 A201 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



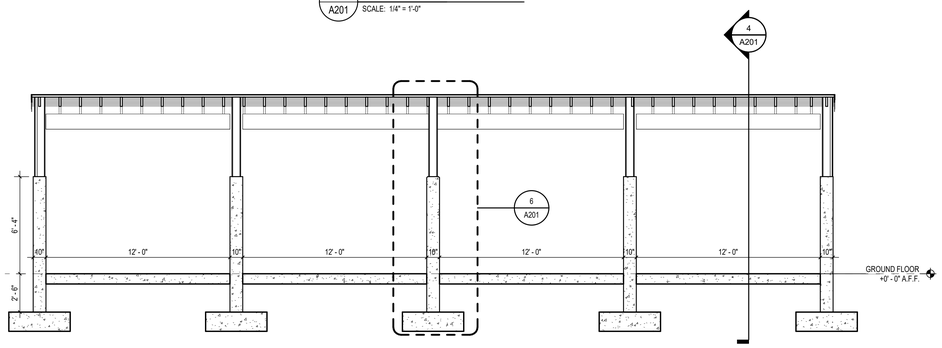
8 A201 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



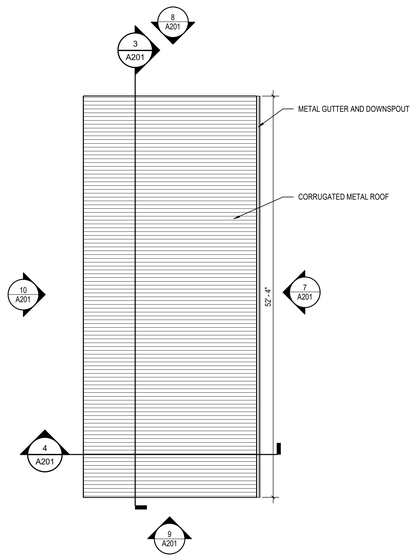
7 A201 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



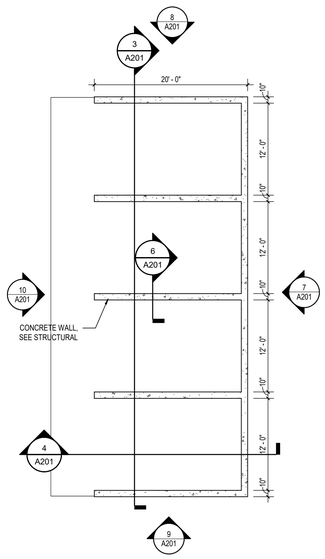
4 A201 BUILDING SECTION
SCALE: 1/4" = 1'-0"



3 A201 BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 A201 ROOF PLAN
SCALE: 1/8" = 1'-0"



1 A201 GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF OTHER TRADES.
B. ALL WORK IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS AND STANDARDS INCLUDING, BUT NOT LIMITED TO THOSE LISTED ON THE COVER SHEET. ALL APPLICABLE RULES & REGULATIONS ARE TO BE THE MOST CURRENT ADOPTED EDITIONS.
C. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
D. ALL DIMENSIONS ARE FROM CENTERLINE OF STRUCTURE, FINISH FACE OF WALL, FACE OF MASONRY, OR FACE OF EXISTING.
E. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED BY ARCHITECT. DO NOT SCALE DRAWINGS.

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GREAT COMMUNITY

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PROJECT:
MSD WAYNE TOWNSHIP
SALT STORAGE BUILDING
7202 W MCCARTY ST, INDIANAPOLIS, IN 46241

SCOPE DRAWINGS:
These drawings indicate the general scope of the project including the approximate dimensions and quantities of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction work of the project.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

ISSUE DATE	DRAWN BY	CHECKED BY
10/06/2026	JTL	NAW

DRAWING TITLE:
FLOOR PLAN, SECTIONS, & DETAILS

CERTIFIED BY:
BRADLEY J. KRONE
REGISTERED
No. AR10800070
STATE OF
INDIANA
ARCHITECT

DRAWING NUMBER
A201

PROJECT NUMBER
2025093