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STRUCTURAL:

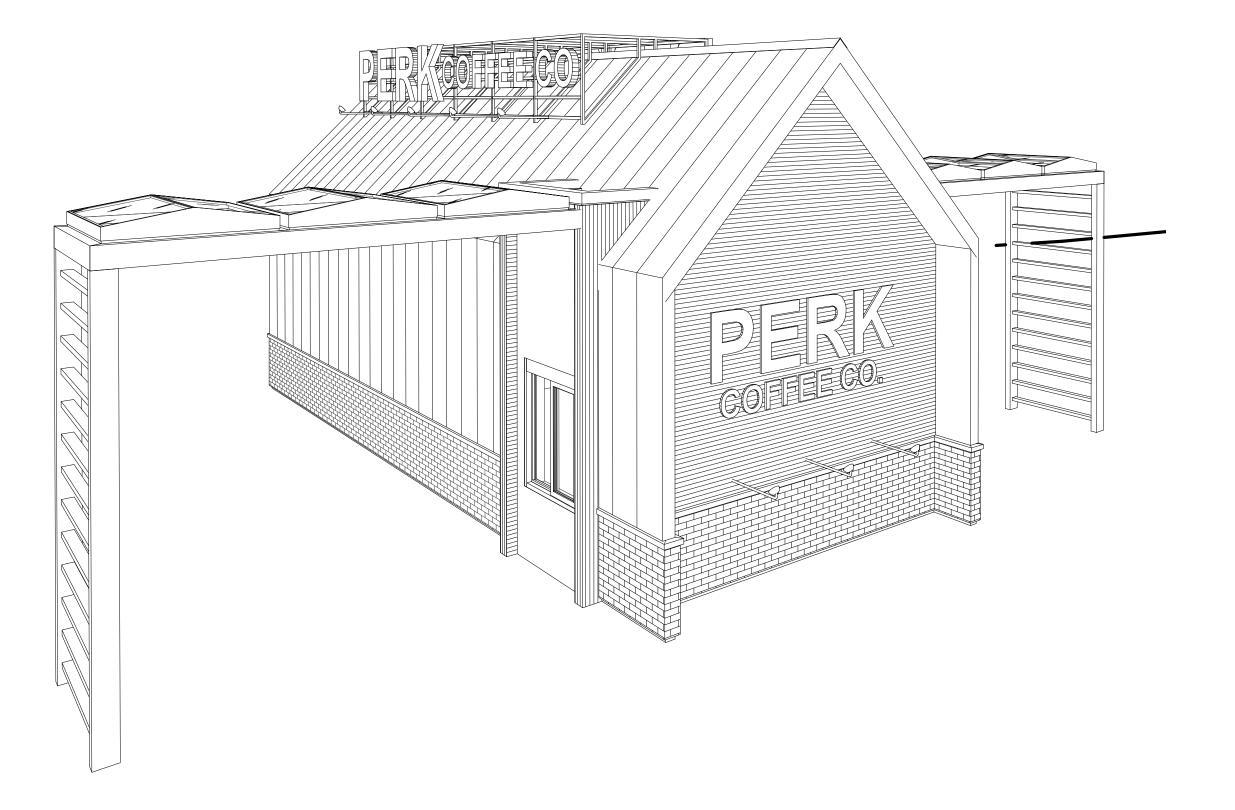
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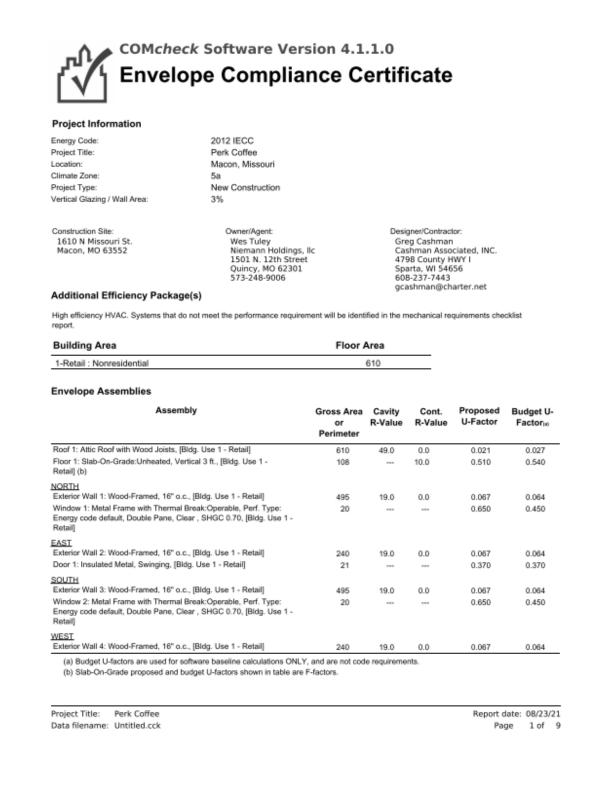


Project Title: Perk Coffee

Data filename: Untitled.cck







specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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STRUCTURAL NOTES FOUNDATION PLAN **ROOF FRAMING PLAN** BRACED WALL PLAN STEEL SIGN DETAILS STRUCTURAL DETAILS SITE PLAN FLOOR PLAN REFLECTED CEILING PLAN & ROOF PLAN EXTERIOR BUILDING ELEVATIONS **BUILDING SECTION BUILDING & WALL SECTIONS** SECTION DETAILS SECTION DETAILS

ENLARGED RESTROOM PLANS

EQUIPMENT PLAN & DUMPSTER ENCLOSURE

DRAWING INDEX

LIFE SAFETY - CODE REVIEW

ISSUED FOR BID / PERMIT

PROJECT NUMBER: DATE:

A-500

Grand total: 18

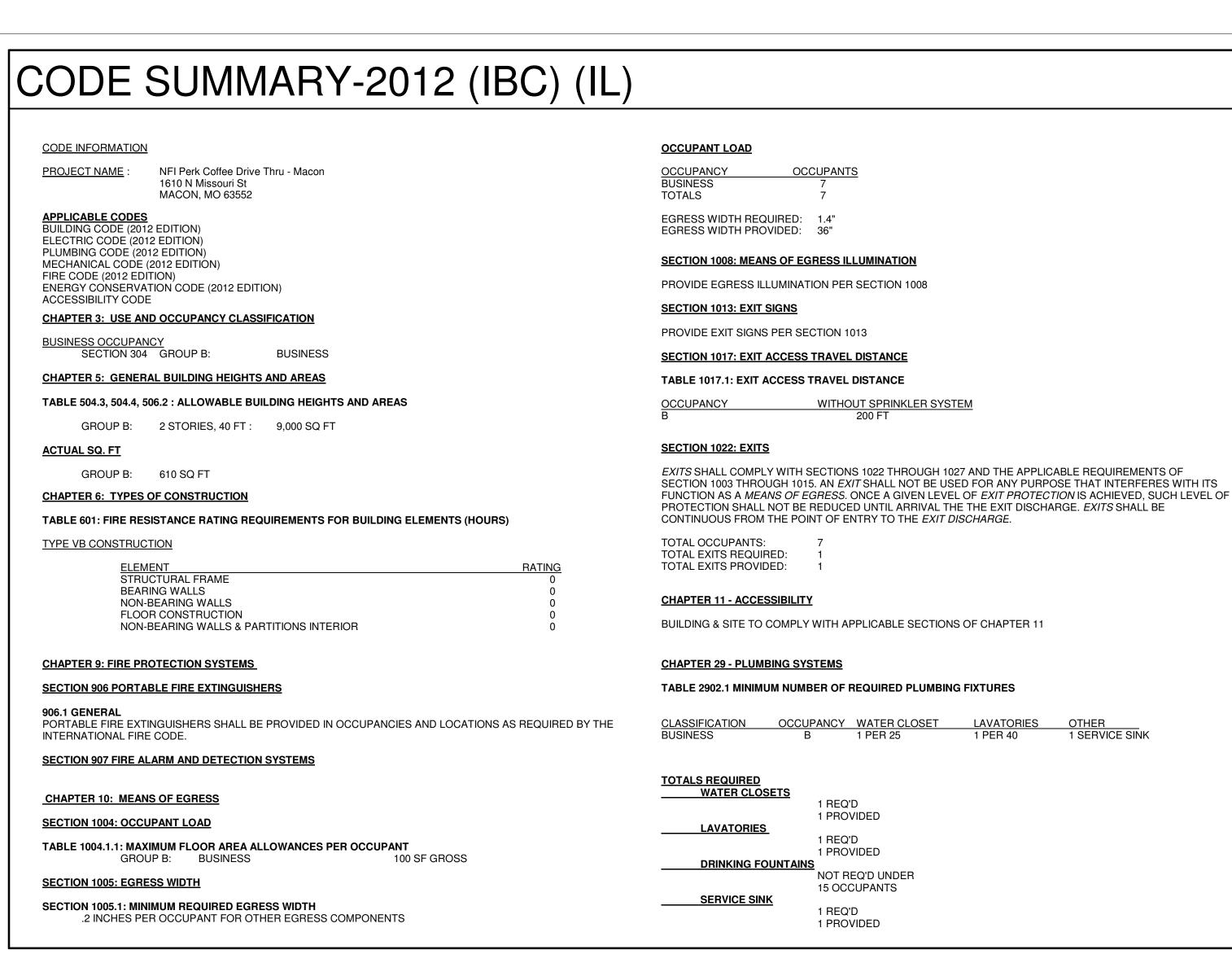
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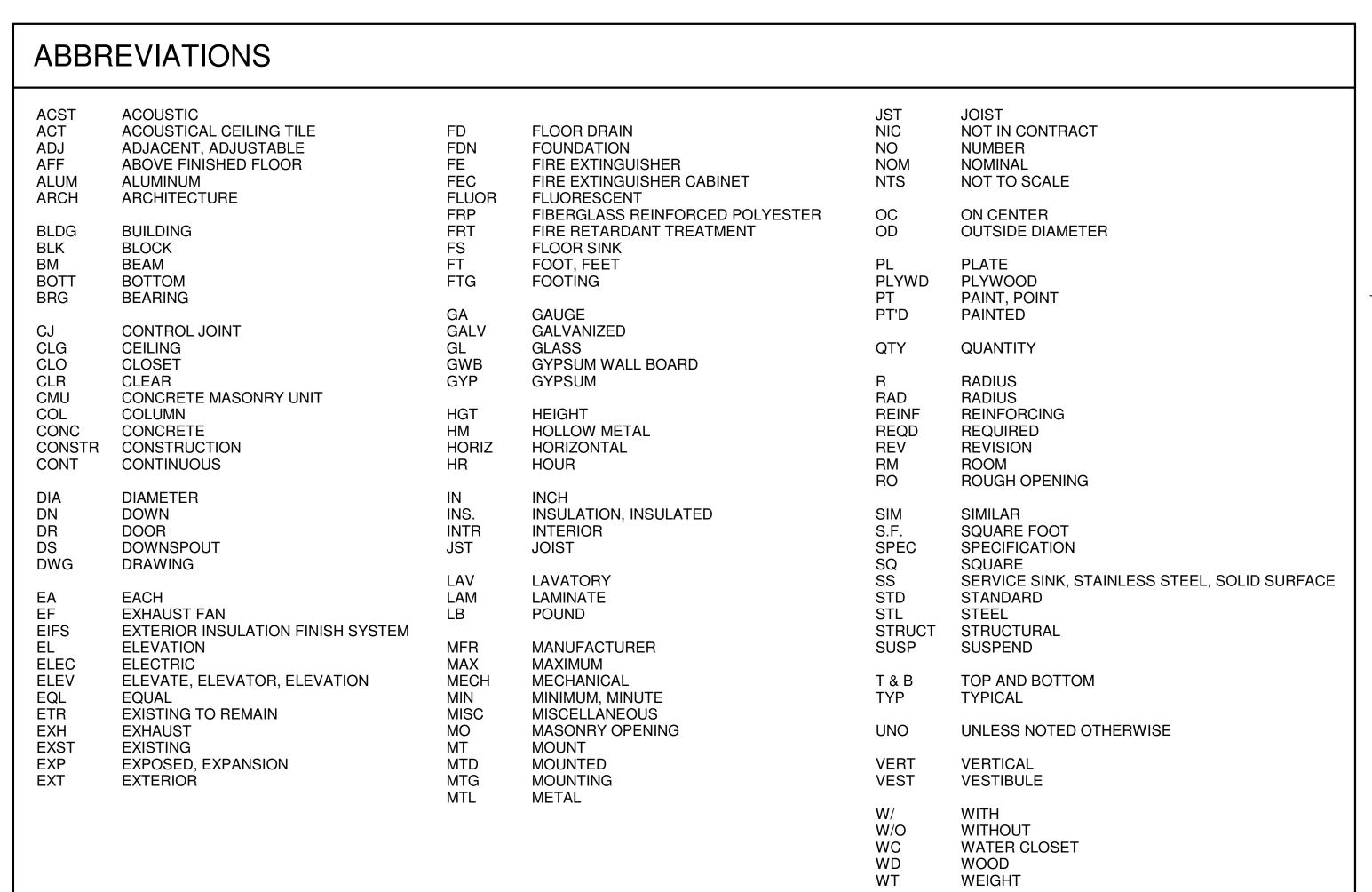
G-001

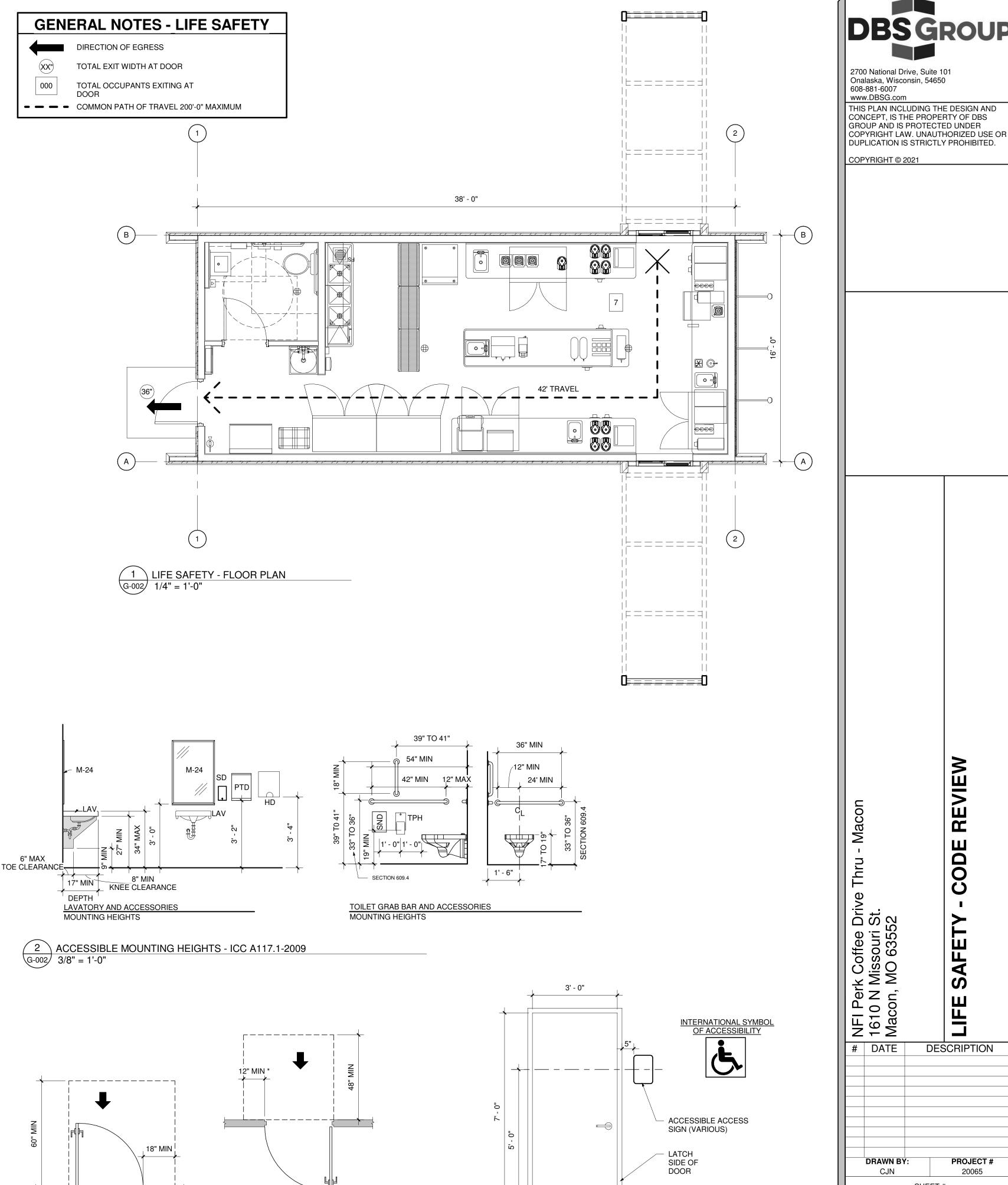
SHEET#

NFI Perk Coffee Drive Thru - Macon

Macon, MO 63552







4 SIGNAGE - MOUNTING SCHEMATIC
G-002 1/2" = 1'-0"

* If both closer and latch are provided

3 \ ACCESSIBLE-MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

FRONT APPROACH, PULL SIDE

G-002 3/8" = 1'-0"

FRONT APPROACH, PUSH SIDE

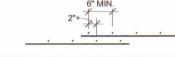
CONCRETE CAST-IN-PLACE NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (MOST CURRENTLY ADOPTED
- CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON-SITE OBSERVATION OF REBAR.
- 3. WHEN THE AVERAGE TEMPERATURE FROM MIDNIGHT IS EXPECTED TO DROP BELOW 40 DEGREES FAHRENHEIT FOR THREE SUCCESSIVE DAYS, COLD WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED, REFER TO ACI 306R.
- 4. WHEN AMBIENT AIR OR CONCRETE TEMPERATURE EXCEEDS 90 DEGREES FAHRENHEIT, STEEL REINFORCING AND/OR FORMING SUBFACES ARE ABOVE 120 DEGREES FAHRENHEIT, OR WHEN WIND VELOCITY, HUMIDITY, OR SOLAR RADIATION CREATE CONDITIONS OF ACCELERATED MOISTURE LOSS AND INCREASE RATE OF HYDRATION, HOT WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED.
- 5. ALL CONCRETE SURFACES SHALL BE FORMED OR APPROVED BY ENGINEER. 6. CONCRETE COLUMNS OR PIERS SHOWN INTEGRAL WITH CONCRETE WALLS SHALL BE POURED MONOLITHICALLY WITH ADJACENT CONCRETE WALLS.
- 7. CONTROL JOINTS SHALL BE CUT USING A SOFF-CUT SAW OR EQUAL AS SOON AS POSSIBLE AFTER PLACING, PREFERABLY THE SAME DAY AS THE POUR, BUT IN NO CASE SHALL THE CONTROL JOINTS BE CUT MORE THAN 24 HOURS AFTER PLACING
- 8. PROVIDE WALL CONSTRUCTION JOINTS AS SHOWN IN DETAILS. ALLOW AT LEAST 24 HOURS BETWEEN POURING ADJACENT WALL SECTIONS AT CONSTRUCTION JOINTS.
- 9. PROVIDE ISOLATION JOINTS WHERE SLABS ABUT VERTICAL SURFACES AS SHOWN. 10. SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACES AT HREE DIAMETERS O.C., OR 4" MINIMUM.

11. ALUMINUM CONDUIT OR PIPING SHALL NOT BE CAST IN CONCRETE.

CONCRETE REINFORCEMENT NOTES:

- 1. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (MOST
- 2. PROVIDE MINIMUM COVER PER ACI 318, 7.7.1 ALSO SEE MILD STEEL PROTECTION 3. WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORT OF STEEL REINFORCING SHALL BE PROVIDED BY THE CONCRETE CONTRACTOR TO ENSURE REINFORCING IS PLACED AND MAINTAINED IN THE PROPER POSITION DURING CONCRETE
- 4. ALL HOOKS IN STEEL REINFORCING SHALL BE ACI STANDARD HOOKS.
- 5. TERMINATE NON-CONTINUOUS STEEL REINFORCING WITH AN ACI STANDARD HOOK IF REQUIRED EMBEDMENT SHOWN ON DRAWINGS CANNOT BE OBTAINED.
- 6. ALL LAPS SHALL BE CLASS "B" PER ACI 318 ON THE DESIGN DRAWINGS, OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS. USE TO BAR LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND
- STEEL REINFORCING SPLICES OF ADJACENT BARS SHALL BE STAGGERED SUCH THAT SPLICES ARE 4 FEET APART, MINIMUM.
- 8. CORNER BARS WITH CLASS "B" LAP PER ACI 318 SHALL BE PROVIDED AT ALL WALL CORNERS AND ALL INTERSECTIONS
- 9. PROVIDE STEEL REINFORCING AROUND OPENINGS IN CONCRETE WALLS AND
- 10. PROVIDE STEEL REINFORCING AT FOOTING STEPS.
- 11. WELDED WIRE REINFORCING SHALL BE IN FLAT SHEETS ONLY AND SHALL BE LAPPED AND/OR ANCHORED TO DEVELOP Fy PER ACI 315.



- 12. WELDING OF STEEL REINFORCEMENT IS NOT PERMITTED, UNLESS APPROVED BY 13. BEND REINFORCING STEEL AROUND ALL CORNERS AND LAP A MINIMUM OF 33x THE
- BAR DIAMETER, UNLESS NOTED. 14. MINIMUM STEEL TENSILE STRENGTH SHALL BE 60 KSI.
- 15. CLEAR DISTANCE BETWEEN BARS OR LAYERS OF BARS SHALL BE ONE FLEXURAL BAR DIAMETER BUT NOT LESS THAN 1" OR LESS THAN 1 1/3 TIMES THE MAXIMUM SIZE OF COURSE AGGREGATE WHICH EVER IS GREATER.
- 16. ANCHOR BOLTS SHALL BE A-307 BOLTS EMBEDDED A MINIMUM OF 7" INTO CONCRETE. ANCHOR BOLTS SHALL BE 1/2" @ 6'-0" O.C. AND WITHIN 12" OF CORNERS.

MATERIAL DESIGN PROPERTIES:

USE	28 DAY STRENGTH	MIN. H2O / CEMENT RATIO	SLUMP (INCHES)	MAX. AGG. SZ
INTERIOR FLOORS	3,500 PSI	.62	3 ±1	3/4
WALLS	3,500 PSI	.62	3 ±1	3/4
PIERS	3,500 PSI	.62	3 ±1	3/4
FOOTINGS	3,500 PSI	.62	3 ±1	1-1/2
EXTERIOR FLOORS	4,000 PSI	.48	3 ±1	3/4

fv = 60.000 PSI

fy = 65,000 PSI

BARS (ASTM A615, GRADE 60) WELDED WIRE MESH (ASTM A 185) STRUCTURAL STEEL STRENGTHS:
STEEL SUPPLIED BY METAL BUILDING MFR.

REINFORCING STEEL STRENGTHS:

PER MTL BLDG SPECS SQUARE & RECTANGULAR TS OR HSS SECTIONS (ASTM A500 GR B) fy = 42,000 PSIHIGH STRENGTH BOLTS (ASTM A325)

STRUCTURAL DESIGN DATA: DESIGN CODE: 2015 INTERNATIONAL BUILDING CODE (IBC)

THERMAL FACTOR (Ct)

SOIL LOAD:
ALLOWABLE NET SOIL BEARING PRESSURE (ASSUMED)
2,000 PSF
NO SOILS REPORT AVAILABLE

*SEISMIC LOAD: SEISMIC USE GROUP / OCCUPA SEISMIC LOAD IMPORTANCE FA SEISMIC SITE CLASS MAPPED SPECTRAL RESPONSE MAPPED SPECTRAL RESPONSE SPECTRAL RESPONSE COEFFIC SPECTRAL RESPONSE COEFFIC SEISMIC DESIGN CATEGORY	ACTOR (le) E ACCELERATION (Ss) E ACCELERATION (S1) CIENT (Sds)	
*WIND LOAD: BASIC WIND SPEED BUILDING OCCUPANCY CATEGO WIND LOAD IMPORTANCE FACT WIND EXPOSURE INTERNAL PRESSURE COEFFIC	OR (Iw)	115 MPH II 1.0 B ± 0.18
ROOF DESIGN LOAD: ROOF LIVE LOAD ROOF DEAD LOAD UNBALANCED LOAD: WINDWARD LEEWARD DRIFT LOADS		20 PSF 15 PSF 0 PSF 0 PSF N/A
*SNOW LOAD: GROUND SNOW LOAD SNOW EXPOSURE FACTOR (Ce		40 PSF 1.0

* SEISMIC, WIND, AND SNOW LOAD CALCULATIONS AND DESIGN DATA SHALL BE PERFORMED AND SUPPLIED BY THE TRUSS MANUFACTURER.

MILD REINFORCING STEEL PROTECTION NOTES:

- THE FOLLOWING MINIMUM DIMENSIONS SHALL BE PROVIDED AS A CLEAR COVER FOR REINFORCING BARS IN STRUCTURAL MEMBERS: CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH:
- **FOOTINGS** CONCRETE PERMANENTLY EXPOSED TO EARTH, MOISTURE OR WEATHER: WALLS, COLUMNS, PIERS: **UP THROUGH #5 BARS**
- #6 THROUGH #18 BARS CONCRETE NOT EXPOSED TO EARTH, MOISTURE OR WEATHER:
- SLABS, WALLS, AND JOISTS: UP THROUGH #11 BARS #14 AND #18 BARS BEAMS, GIRDERS, AND COLUMNS: PRINCIPAL REINFORCEMENT, TIES STIRRUPS, OR SPIRALS

GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN STATE AMENDMENTS, SPS 362. REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE BUILDING CODE ADOPTED EDITION OR THE NOTED EDITION, IF NOT BUILDING CODE
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AFFECTING NEW CONSTRUCTION BEFORE STARTING WORK. NOTIFY THE ARCHITECT OF
- 3. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN IN THE CONTRACT DOCUMENTS.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE STRUCTURAL SYSTEM AND ITS ELEMENTS SHALL NOT BE CONSIDERED STABLE UNTIL THE STRUCTURE IS COMPLETE.
- COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS, NOTIFY THE ARCHITECT OF ANY CONFLICT AND/OR OMISSION.
- 6. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS, INSERTS, SLEEVES, CURBS, PADS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS, NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING SHOP DRAWINGS OR ANY WORK. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
- 8. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE ARCHITECT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW

 AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL. THE CONTRACTOR REMAINS SOLEY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

MISCELLANEOUS STRUCTURAL NOTES:

- 1. ENGINEER ASSUMES PIN BASED COLUMNS.
- CONNECTORS:
 A FOR EXTERIOR AND INTERIOR APPLICATIONS WHERE EXPOSED TO MOISTURE, WHERE PRESSURE TREATED WOOD IS USED, AND FOR INTERIOR CORROSIVE ENVIRONMENTS ALL CONNECTORS SHALL BE HOT DIPPED GALVANIZED PER ASTM A 153A / 153M, OR STAINLESS STEEL, INCLUDING
- EXPANSION BOLTS, ANCHOR BOLTS, JOIST HANGERS, AND NAILS.

 B. CONNECTION DESIGN TO WOOD OR STEEL FRAMING AND EVALUATION OF STRUCTURAL MEMBERS ADEQUACY BY A REGISTERED PROFESSIONAL ENGINEER SHALL BE PROVIDED BY ALL SUBCONTRACTORS.
- C. INSTALLER OF ANCHORS OR CONNECTIONS TO STRUCTURE IS RESPONSIBLE FOR ANCHOR DESIGN AND DETERMINATION OF STRUCTURAL COMPONENT ADEQUACY. DO NOT CUT REINFORCING BARS OR DAMAGE OTHER EMBEDMENTS.
- WORK BY OTHERS:
 A. ALL SUPPORTS, FRAMING, SUB-FRAMING, LIGHT GAUGE FRAMING, MISCELLANEOUS STEEL FRAMING, METAL FABRICATIONS, BRACING BRACKETS, HANGERS, CONNECTORS, EMBEDMENTS, FASTENERS, AND ATTACHMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED
- BY THE CONTRACTOR REQUIRING THE ITEM. COMPLY WITH GOVERNING B. CONSTRUCTION MEANS AND METHODS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE CONTRACTOR REQUIRING SUCH, WORK INCLUDES, BUT IS NOT LIMITED TO: a. EVALUATION OF STRUCTURE FOR CONSTRUCTION EQUIPMENT LOADS SUCH AS FORKLIFTS, MATERIAL STOCKPILES, ETC.
- b. EVALUATION OF STRUCTURE FOR INSTALLATION OF ANY NECESSARY SHORING FOR MOVING LOADS DURING INSTALLATION OF HEAVY 4. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHT

MATERIALS, NOTIFY ENGINEER OF DISCREPANCIES.

5. DO NOT SUSPEND POINT LOADS FROM ROOF SHEATHING OR ROOF PURLINS UNLESS APPROVED BY THE ENGINEER. POINT LOADS INCLUDE, BUT ARE NOT LIMITED TO: HANGERS FOR CEILINGS, PIPES, DUCTS, STEEL STUDS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO THE STRUCTURE SUPPORTING DECK.

SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING

STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
- 2. SHOP DRAWINGS PREPARED IN ACCORDANCE WITH THE "STRUCTURAL STEEL DETAILING MANUAL" OF THE AISC SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.
- 3. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL WIDE FLANGES AND TEES SHALL CONFORM TO A572, GRADE 50. ROUND, SQUARE AND RECTANGULAR HSS SECTIONS SHALL CONFORM TO ASTM A500, GRADE B. ROUND PIPES SHALL CONFORM TO ASTM A53, GRADE B. ALL OTHER SHAPES SHALL
- CONFORM TO ASTM A36 OR A572, GRADE 50.
- 4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED.
 A. BOLTED JOINTS SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS SHALL CONFORM TO ASTM A325, AND SHALL BE MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE CONSIDERED BEARING TYPE WITH BOLTS PRE-TENSIONED, UNLESS OTHERWISE NOTED. PROVIDE DIRECT TENSION INDICATORS (LOAD INDICATING WASHERS) IN ACCORDANCE WITH ASTM F959 OR TENSION CONTROL BOLTS (TWIST OFF BOLTS) IN ACCORDANCE WITH ASTM F1852 FOR ALL HIGH STRENGTH BOLTS.

 B. WELDS SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING
 - SOCIETY, AWS D1.1. USE E70XX ELECTRODES. WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURES". WELDERS SHALL CARRY PROOF OF QUALIFICATIONS IN THEIR PERSONS.
- 5. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GR 55.S1, (WELDABLE) UNLESS OTHERWISE NOTED. THE END OF THE ANCHOR ROD INTENDED TO PROJECT FROM THE CONCRETE SHALL BE STEEL DIE STAMPED WITH THE GRADE INDENTIFICATION AS REQUIRED BY SUPPLEMENT S3.
- 6. DO NOT USE GAS CUTTING TORCHES FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL
- 7. UNLESS NOTED OTHERWISE BEAM END CONNECTIONS SHALL BE PROPORTIONED AS FOLLOWS: A. MINIMUM 5/16" THICK DOUBLE ANGLE SHEAR CONNECTIONS, FULL DEPTH OF THE BEAM, WELDED OR BOLTED WITH VERTICAL BOLT SPACING = 3", AND

B. WHERE BEAM REACTIONS ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN, OR C. WHERE BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE PROPORTIONED TO

- SUPPORT 60% OF THE TOTAL UNIFORM LOAD CAPACITY (ULC) SHOWN IN THE UNIFORM LOAD TABLES OF THE AISC MANUAL, FOR THE SPECIFIED BEAM SIZE, SPAN, AND GRADE OF STEEL SPECIFIED. FOR COMPOSITE BEAMS, PROPORTION CONNECTORS FOR 90% OF THE ULC. CONNECTIONS SHALL BE PROPORTIONED FOR THE ECCENTRICITY BETWEEN THE CONNECTION CENTROID AND THE CENTROID OF THE SUPPORTING MEMBER.
- 8. PLACE NON-SHRINK, HIGH STRENGTH GROUT (MINIMUM 6,000 PSI) UNDER BASE PLATES AFTER
- SETTING AND LEVELING, AND PRIOR TO PLACING ELEVATED SLAB CONCRETE. 9. STEEL CONSTRUCTION SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR. SEE SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.
 A. BOLTED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH AISC 348 "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS".
- B. ALL FILLET WELDS SHALL BE VISUALLY INSPECTED.
 C. ALL PENETRATION WELDS SHALL BE TESTED IN ACCORDANCE WITH ASTM E164.
- D. WELDING OF HEADED STUD CONCRETE ANCHORS AND DBA'S SHALL BE INSPECTED IN ACCORDANCE WITH AWS D1.1. TEST 15% OF ALL STUDS. RETEST ALL STUDS AND DBA'S ON ANY
- MEMBER WHERE STUDS FAILED INITIAL TESTING.

 E. WRITTEN REPORTS SHALL BE SUBMITTED DESCRIBING ALL INSPECTIONS AND INDICATING ANY NON-CONFORMING WORK.
 F. RE-INSPECT NON-CONFORMING WORK AFTER IT IS CORRECTED.
- 10. PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.
- 11. SHEAR CONNECTORS: PROVIDE AWS D1.1, TYPE B, 3/4" DIAMETER, SOLID FLUXED HEADED SHEAR CONNECTOR STUDS AUTOMATICALLY END WELDED THROUGH THE METAL DECK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

 A. WHERE THE THICKNESS OF THE BEAM FLANGE IS LESS THAN 0.3", STUDS SHALL BE LOCATED
- DIRECTLY OVER THE WEB.

 B. THE MINIMUM CENTER-TO-CENTER SPACING OF STUDS SHALL BE 4.5" ALONG THE LONGITUDINAL AXIS OF THE BEAM AND 3" TRANSVERSE TO THE LONGITUDINAL AXIS OF THE BEAM. THE MINIMUM DISTANCE TO THE EDGE OF THE BEAM FLANGE SHALL BE 1 1/4" WHERE STUDS ARE PLACED IN
- 12. DEFORMED BAR ANCHORS (DBA'S): FLUX FILLED BARS AUTOMATICALLY WELDED TO STRUCTURAL STEEL IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER. PROVIDE MATERIAL WITH MINIMUM YIELD STRENGTH OF 50 KSI.
- 13. PROVIDE CAP PLATES AT ALL COLUMNS, AT BEARING CONDITIONS, PROVIDE 3/4" MINIMUM THICKNESS. AT NON-BEARING CONDITIONS, PROVIDE 1/4" THICKNESS. WELD CAP PLATES ALL AROUND TO COLUMNS.
- 14. UNLESS NOTED OTHERWISE, ALL EXPOSED STRUCTURAL AND MISCELLANEOUS STEEL, PLATES, BOLTS, AND ANCHORS SHALL BE GALVANIZED OR PAINTED WITH APPROVED RUST INHIBITING
- 15. THE STRUCTURAL DESIGN OF STEEL STAIRS, LANDINGS AND GUARDRAILS (INCLUDING EMBEDS) SHALL BE PERFORMED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. CALCULATIONS AND SHOP DRAWINGS WITH THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL THE SUBMITTAL IS APPROVED. DESIGN LOADS SHALL BE AS SPECIFIED BY THE CONTRACT DOCUMENTS AND/OR THE APPLICABLE CODES WHICHEVER IS MORE STRINGENT. THE CONTRACTOR SHALL MAKE APPROVED SHOP DRAWINGS AVAILABLE TO THE INSPECTOR AT THE JOB SITE PRIOR TO SPECIAL INSPECTION.

WOOD FRAMING NOTES:

- LUMBER MATERIALS

 1. LUMBER GRADING RULES: SPIB OR WWPA
 2. FRAMING, BLOCKING AND NAILING: CONSTRUCTION GRADE NO. 2 OR BETTER, S4S, KILN DRIED. WALL MATERIAL, SPRUCE-PINE-FIR (SPF); HEADERS AND JOISTS, HEM-FIR OR DOUGLAS-FIR; 19 PERCENT MAXIMUM MOISTURE CONTENT, UNLESS OTHERWISE
- PLYWOOD MATERIALS 1. ROOF SHEATHING: APA RATED SHEATHING, CDX GRADE, UNSANDED, EXPOSURE 2 2. WALL SHEATHING: APA RATED SHEATHING, CDX GRADE, UNSANDED, EXPOSURE 2 FLOOR SHEATHING: APA RATED SHEATHING, A-C GRADE, UNSANDED, EXPOSURE 2.
- 4. UNDERLAYMENT: APA RATED SHEATHING, UNDERLAYMENT GRADE, SANDED, PARTICLE BOARD MATERIALS

 1. ROOF SHEATHING: APA ORIENTED STRAND BOARD, SET WITH WATERPROOF RESIN BINDER; EXTERIOR GRADE; UNSANDED SURFACES.
- WALL SHEATHING: APA ORIENTED STRAND BOARD, SET WITH WATERPROOF RESIN BINDER; EXTERIOR GRADE; UNSANDED SURFACES. 3. FLOOR SHEATHING: APA ORIENTED STRAND BOARD, SET WITH WATERPROOF RESIN BINDER: UNSANDED SURFACES. 4. UNDERLAYMENT: APA ORIENTED STRAND BOARD, SET WITH WATERPROOF RESIN BINDER: UNSANDED SURFACES.
- <u>INSULATED SHEATHING</u>

 1. WALL SHEATHING: RIGID INSULATION, MINIMUM RSI VALUE OF 5.0 PER INCH, THICKNESS AS PER DRAWINGS.
- ACCESSORIES

 I. FASTENERS: HOT DIPPED GALVANIZED STEEL NAILS, OR TEFLON, OR CERAMIC COATED SCREWS FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS; PLAIN
- JOIST HANGERS: GALVANIZED STEEL, SIZED TO SUIT JOISTS AND FRAMING
- 3. ANCHORS: TOGGLE BOLT TYPE FOR ANCHORAGE TO HOLLOW MASONRY. EXPANSION SHIELD AND LAG BOLT TYPE FOR ANCHORAGE TO SOLID MASONRY OR CONCRETE, BOLTS, OR BALLISTIC FASTENERS FOR ANCHORAGE TO STEEL.
- 4. SUBFLOOR GLUE: WATERPROOF, AIR CURE TYPE, CARTRIDGE DISPENSED 5. DRYWALL SCREWS: BUGLE HEAD, STEEL, POWER DRIVEN TYPE, LENGTH THREE TIMES
- 6. SILL SEALER: 1/4" THICK, PLATE WIDTH, CLOSED CELL POLYETHYLENE FOAM FROM 7. BUILDING PAPER: NO. 15 ASPHALT FELT
- WOOD TREATMENT

 1. WOOD PRESERVATION (PRESSURE TREATED), AWPA TREATMENT C1, WATER BORNE
- PRESERVATION WITH MINIMUM RETENTION AS FOLLOWS: A. ABOVE GROUND 0.25 PCF
- B. SOIL OR FRESH WATER CONTACT (NON-STRUCTURAL) 0.40 PCF C. SOIL OR FRESH WATER CONTACT (STRUCTURAL) 0.60 PCF D. FOUNDATION PILES 0.80 PCF
- ERECT WOOD FRAMING MEMBERS LEVEL AND PLUMB.
- FASTEN STRUCTURAL COMPONENTS IN ACCORDANCE WITH THE WISCONSIN COMMERCIAL CODE, TABLE 2304.9.1 FASTENING. 3. DOUBLE MEMBERS AT OPENINGS OVER ONE SQ. FT. SPACE SHORT STUDS OVER AND UNDER WALL STUDDING.
- CONSTRUCT DOUBLE JOIST HEADERS AT FLOOR AND CEILING OPENINGS. CONSTRUCT DOUBLE JOISTS UNDER WALL STUDDING. 5. BRIDGE JOISTS AND FRAMING IN EXCESS OF 8 FOOT SPAN AT MID-SPAN MEMBERS.
 6. PLACE SILL SEALER DIRECTLY ON CONCRETE WALL, PUNCTURE SEALER CLEAN AND
- FIT TO PROTRUDING FOUNDATION ANCHOR BOLTS.
 7. LUMBER IN CONTACT WITH MASONRY, CONCRETE, OR STEEL SHALL BE TREATED WITH WOOD PRESERVATIVE.

SHEATHING 1. SECURE ROOF SHEATHING PERPENDICULAR TO FRAMING MEMBERS WITH ENDS 2. SECURE ROOF SHEATHING CLIP.

- STAGGERED. SECURE SHEET EDGES OVER FIRM BEARING. USE SHEATHING CLIPS BETWEEN ROOF FRAMING MEMBERS. 2. SECURE WALL SHEATHING VERTICALLY TO WALL STUDS, OVER FIRM BEARING.
 3. PLACE PLYWOOD SHEATHING AT BUILDING CORNERS WHERE INSULATED SHEATHING
- 4. SECURE SUBFLOOR PERPENDICULAR TO FLOOR FRAMING WITH END JOINTS TAGGERED. SECURE SHEET EDGES OVER FIRM BEARING. ATTACH SHEATHING WITH SUBFLOOR GLUE AND MINIMUM 8d NAILS. SECURE FLOORING UNDERLAYMENT AFTER DUST AND DIRT GENERATING ACTIVITIES
 HAVE CEASED AND PRIOR TO APPLICATION OF FINISHED FLOORING. APPLY

PERPENDICULAR TO SUB-FLOORING. STAGGER END JOINTS OF UNDERLAYMENT.

BLOCKING, CURBS, AND CANTS

1. CONSTRUCT CURBS AND CANT MEMBERS OF SINGLE PIECES PER LOCATION.

2. CURB ALL ROOF OPENINGS EXCEPT WHERE PREFABRICATED CURBS ARE PROVIDED. FORM CORNERS BY LAPPING SIDE MEMBERS ALTERNATELY. 3. COORDINATE WORK WITH INSTALLATION OF DECKING AND SUPPORT DECKING AT

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- Macon MO 635

Drive St. Ma

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NFI 161

DATE

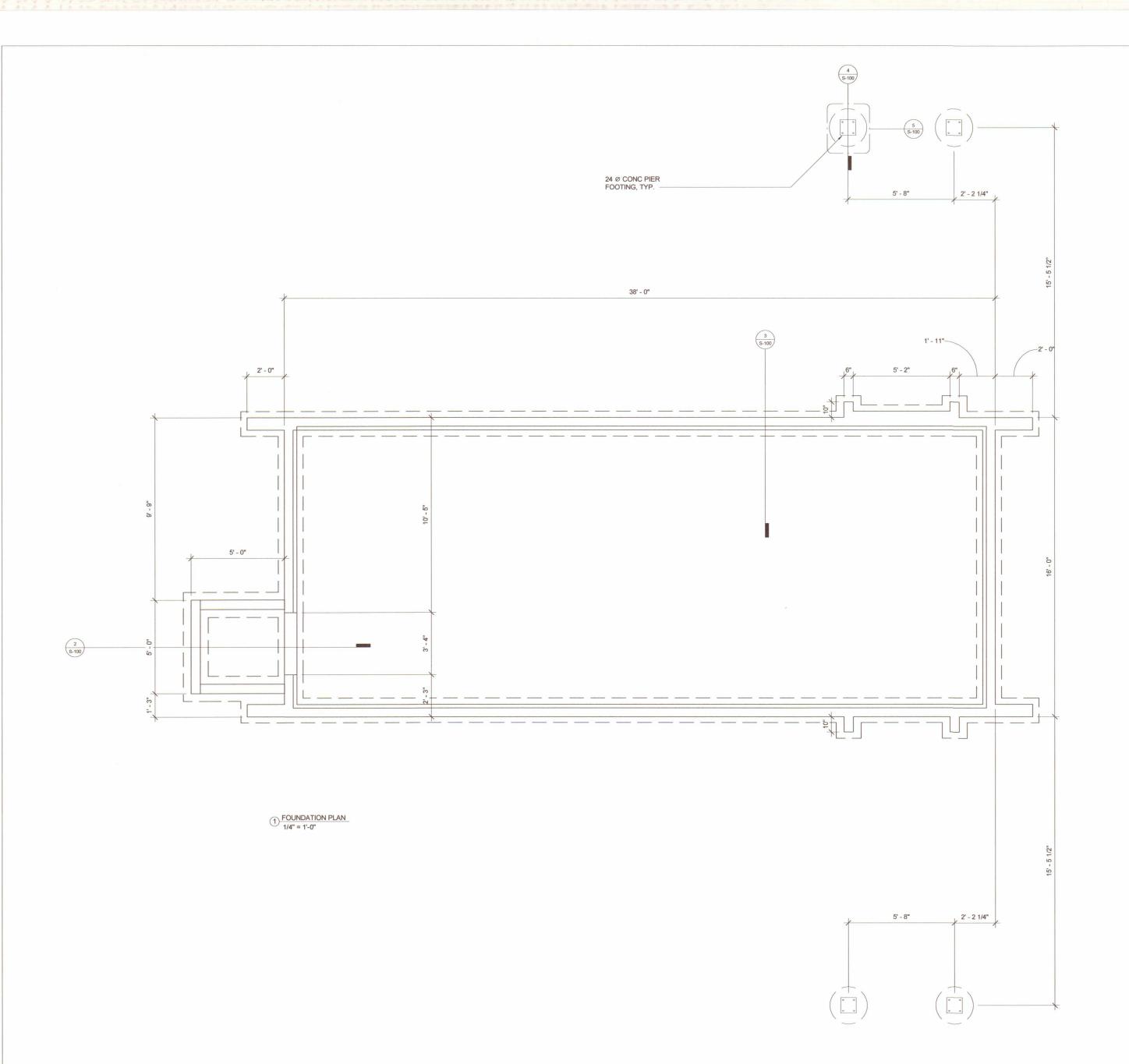
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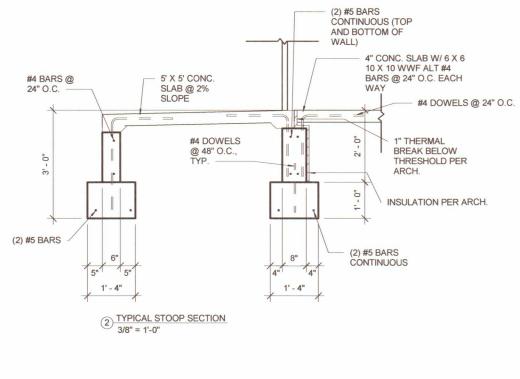
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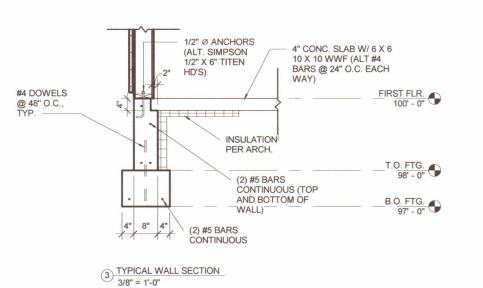
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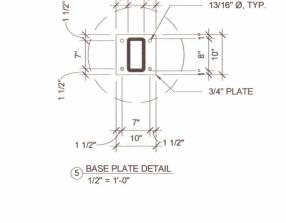
DESCRIPTION

PROJECT #









4 CONCRETE PIER 3/8" = 1'-0"

10" X 10" X 3/4"

#3 TIES @ 12"

(4) 3/4" Ø EPOXY ANCHORS SET W/ SIMPSON SET XP EPOXY OR APPROVED EQUAL —

1 1/2" NON-

SHRINK GROUT PAD -

FOUNDATION PLAN NOTES:

- CONTRACTOR SHALL PROVIDE FROST PROTECTION AND MOISTURE PROTECTION FOR FOOTINGS EXPOSED DURING CONSTRUCTION.
- REFER TO ARCHITECTURAL DRAWINGS OR PLUMBING DRAWINGS FOR SPECIFIC FLOOR DRAIN LOCATIONS AND ELEVATIONS.
- 3. REFER TO STRUCTURAL DETAIL PLAN SHEETS FOR MISCELLANEOUS DETAILS NOT INDICATED ON PLAN.
- 4. NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS. ALL FOOTINGS SHALL REST ON UNDISTURBED ROCK OR SOIL. EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- 5. WHERE REQUIRED, REMOVE UNSUITABLE EXISTING SOILS BELOW FOOTINGS, SLABS-ON-GRADE, ETC. TO APPROVED BEARING SOIL. REPLACE WITH ENGINEERED FILL (COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY) TO THE REQUIRED FOOTING BEARING CAPACITY AS INDICATED IN THE STRUCTURAL DESIGN DATA SOIL LOAD INFORMATION ON SHEET SO.0. TYPE OF FILL MATERIAL AND PLACEMENT SHALL CONFORM TO SPECIFICATIONS UNDER THE DIRECTION AND SUPERVISION OF THE SOILS ENGINEER. SOILS ENGINEER SHALL FIELD VERIFY ALL BEARING CAPACITIES BEFORE FOOTINGS ARE POURED. CONTACT ENGINEER IF UNABLE TO ATTAIN LISTED SOIL BEARING PRESSURE.
- 6. PROVIDE A MINIMUM OF 8 INCHES OF WELL COMPACTED GRANULAR FILL BELOW ALL SLABS ON GRADE. COMPACT TO 95% OF THE MODIFIED PROCTOR DENSITY.
- CONCRETE EXPOSED TO WEATHER (RETAINING WALLS, EXTERIOR SLABS, WALKS, CURBS, ETC. BUT EXCLUDING EXPOSED FOUNDATION WALLS) SHALL CONTAIN 4 TO 7 PERCENT AIR BY VOLUME.
- 8. DELIVERY TICKETS FOR EACH LOAD OF CONCRETE DELIVERED TO THE JOB SITE SHALL BE FURNISHED UPON REQUEST TO THE ENGINEER. TICKET INFORMATION SHALL CONTAIN ALL PERTINENT DESIGN INFORMATION, INCLUDING AMOUNT OF WATER ADDED AT THE JOB SITE, IF ANY.
- VERIFY PIER CENTERLINE SPACING, ANCHOR BOLT LAYOUT, AND FOUNDATION DIMENSIONS WITH FOUNDATION PLAN. VERIFY THAT ALL BASE PLATES WILL BEAR FULLY ON CONCRETE PIERS, NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.
- FORMWORK FOR FOOTINGS SHALL CONSIST OF A MANUFACTURED FORM SYSTEM OF A MINIMUM 1 1/2" THICK WOOD PLANK SECURED TO WOOD OR STEEL STAKES. POURING TO EXCAVATION BANK MAY NOT BE DONE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
 MIXING AND PLACING OF CONCRETE TO BE IN ACCORDANCE WITH ACI 318.
- 11. MIXING AND PLACING OF CONCRETE TO BE IN ACCORDANCE WITH ACI 318. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICAL IN ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING. CONCRETING SHALL BE CARRIED ON SUCH A RATE THAT CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
- ENGINEER ASSUMED 2,000 PSF SOIL BEARING CAPACITY BASED ON TABLE 1804.2.
 CONTRACTOR SHALL CONTACT OWNER & ENGINEER IF SOILS ARE SUSPECT OF A LESSER BEARING CAPABILITY.
- 13. PRIOR TO CONSTRUCTION, VERIFY OPENINGS IN FOOTINGS & FOUNDATION WALLS FOR ALL OTHER TRADES.
- CONTRACTOR SHALL PROVIDE 6 MIL. POLY VAPOR BARRIER BENEATH FLOOR SLAB ON GRADE.
- 15. CONCRETE MEMBERS SHALL BE CAST USING THE FOLLOWING CONCRETE STRENGTHS:
- A. 3500 PSI, USE FOR FOOTINGS, WALLS, AND INTERIOR SLABS ON GRADE.
 B. 4000 PSI (AIR ENTRAINED), USE FOR ALL EXTERIOR SLABS RETAINING WALLS, CURBS AND GUTTER, SIDEWALK AND LIKE CONSTRUCTION.

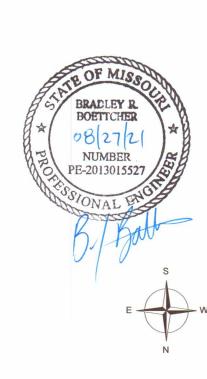
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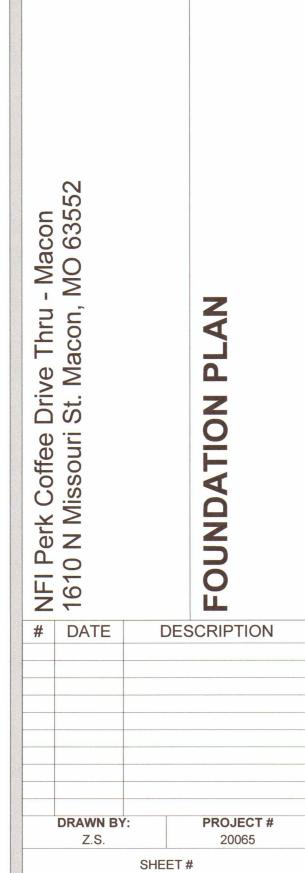
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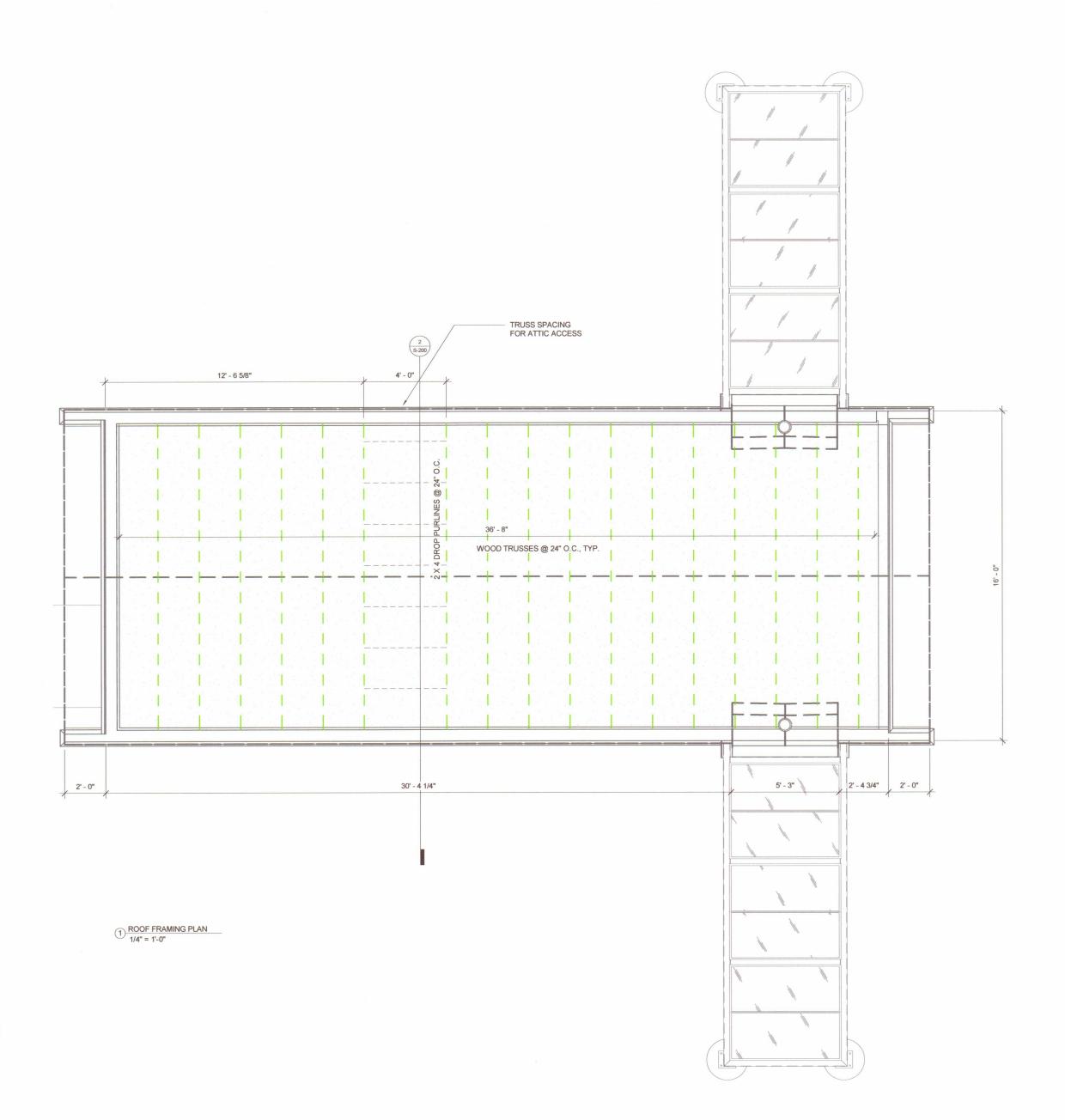
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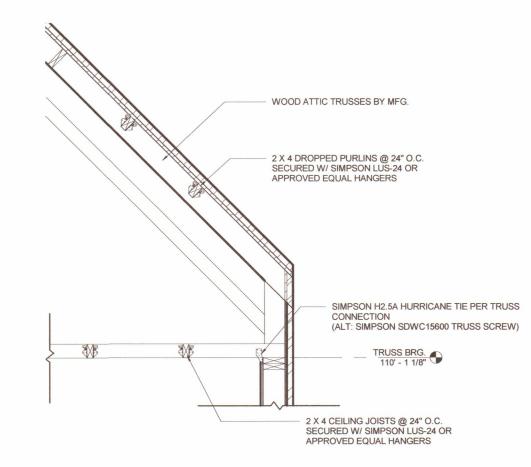
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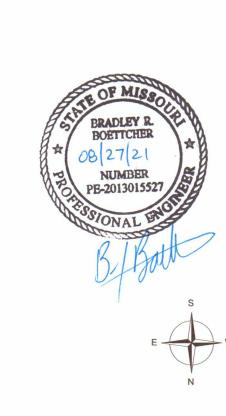


S-100



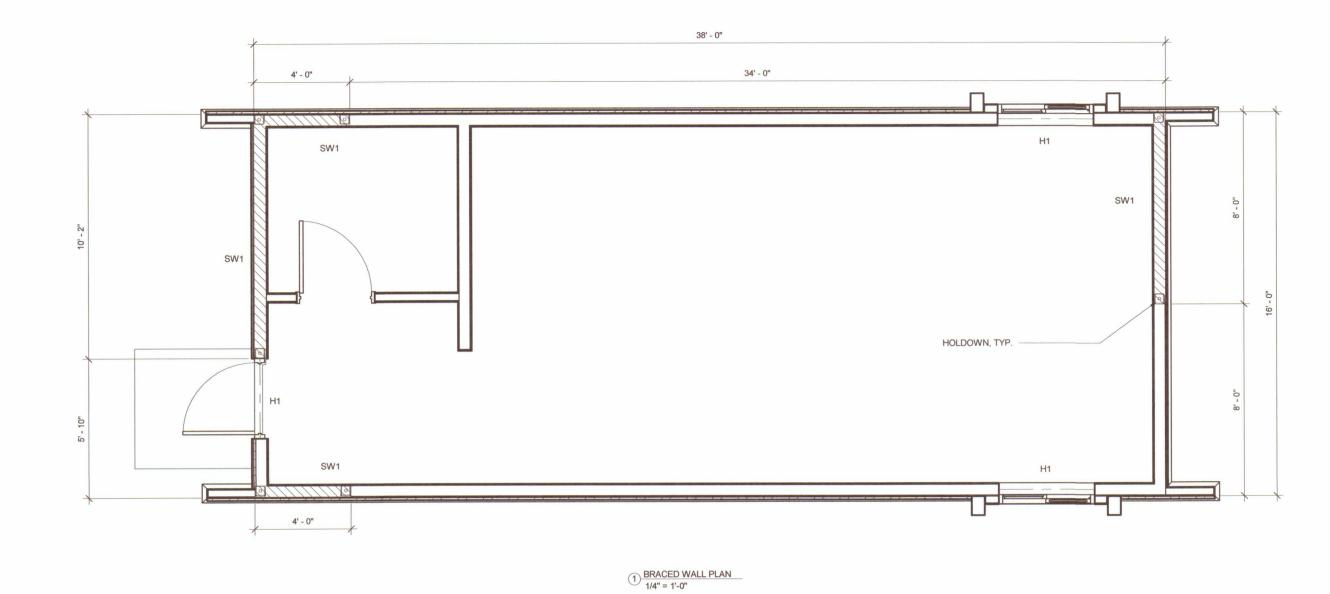


2 TRUSS CONNECTION
1/2" = 1'-0"

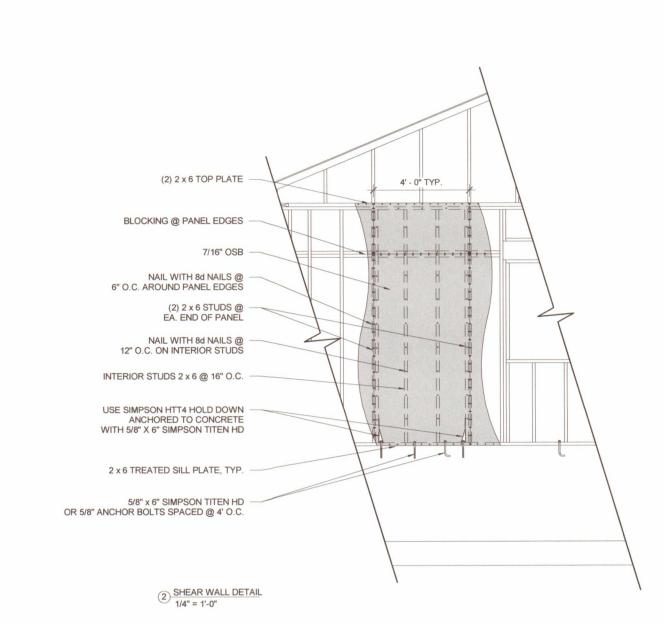


* NFI Perk Coffee Drive Thru - Macon 1610 N Missouri St. Macon, MO 63552	BESCRIPTION DESCRIPTION

	BEAM/HEADER SCHEDULE		
MARK	SIZE	MATERIAL	SHOULDER STUD
H1	2-PLY 2X8	SPF #2	2X6



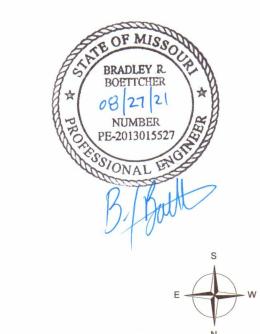
SHEAR WALL SCHEDULE			
Designation	Description	Holdowns	Anchorage
SW1	7/16" OSB Secured w/ 0.113 x 2 3/8" nails @ 6" O.C. on panel edges & 12" field nailing. Block unsupported edges.	HTT4	1/2" Ø @ 4' O.C



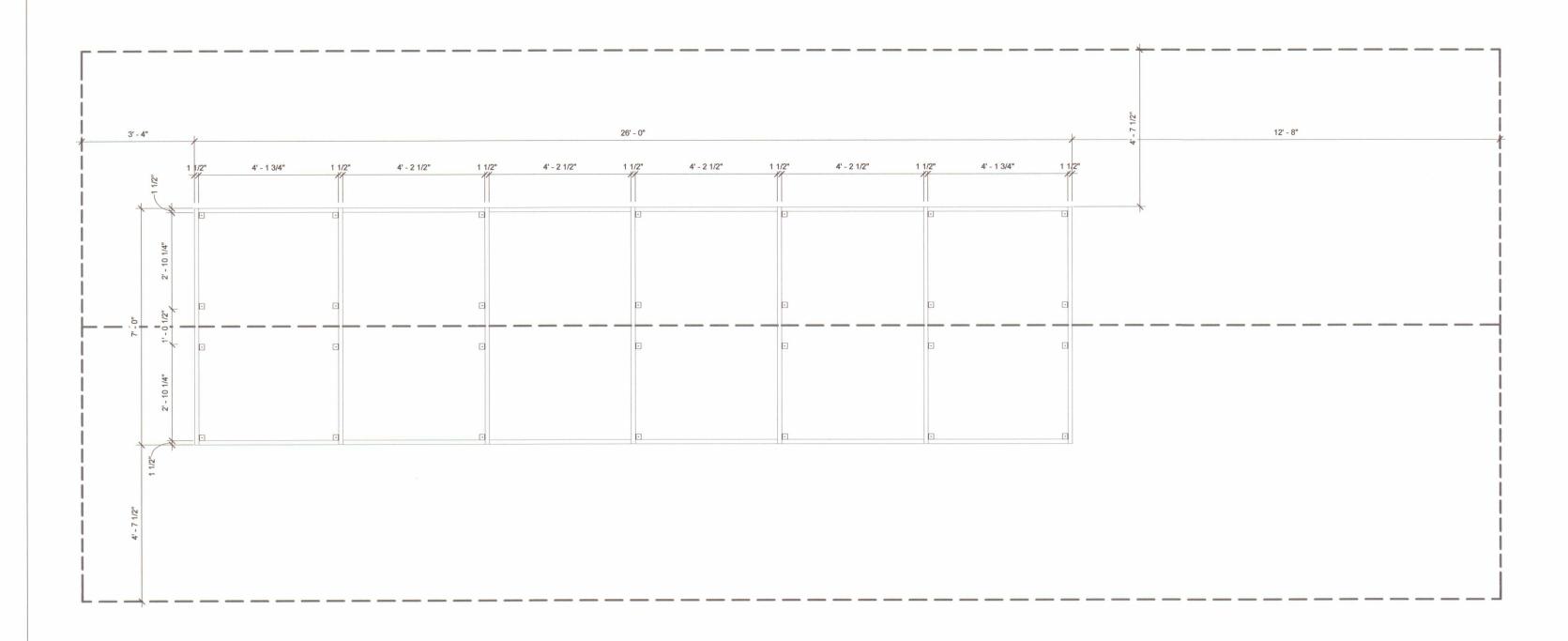
COPYRIGHT © 2021 NFI Perk Coffee Drive Thru - Macon 1610 N Missouri St. Macon, MO 63552 BRACED WALL PLAN # DATE DESCRIPTION PROJECT # 20065 DRAWN BY: Z.S SHEET#

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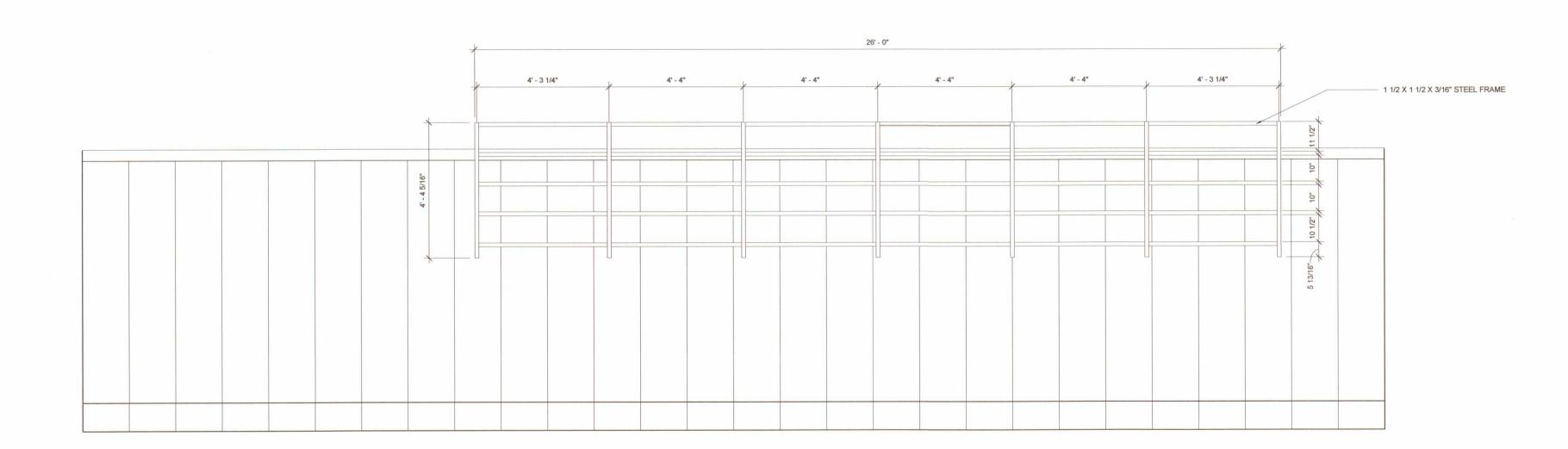
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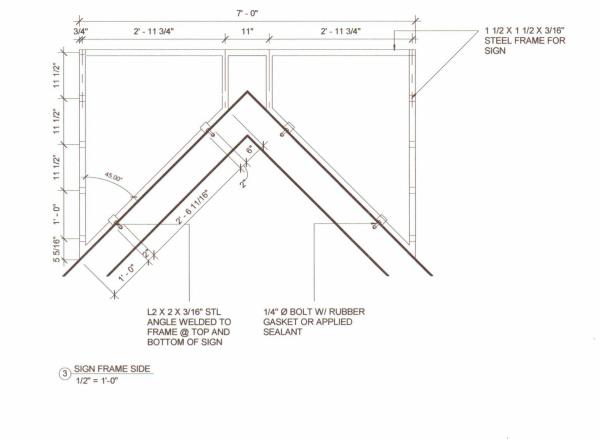
S-300

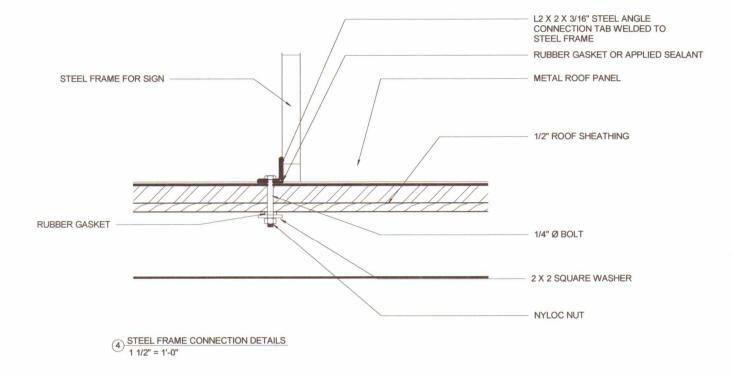


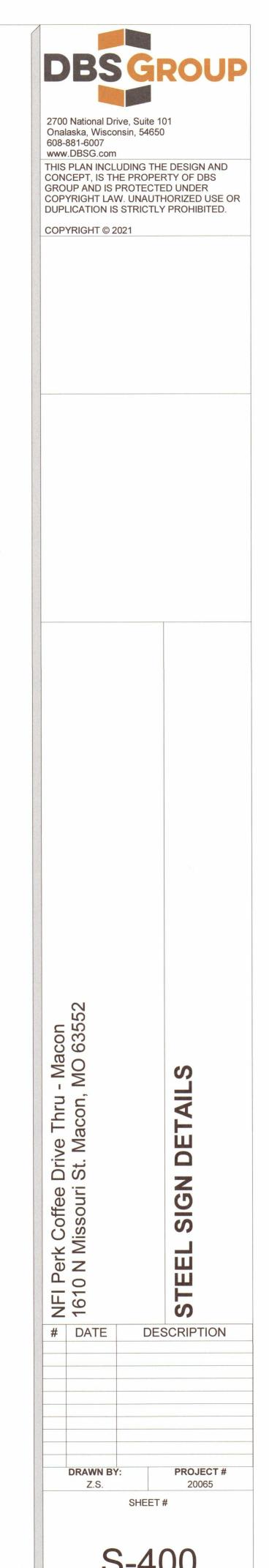
1) SIGN FRAME TOP 3/8" = 1'-0"



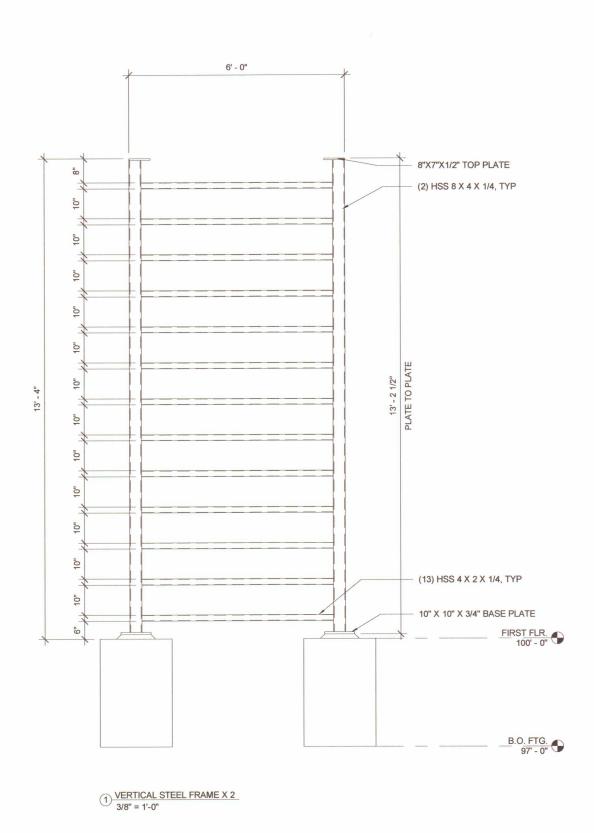
2 SIGN FRAME FRONT 3/8" = 1'-0"

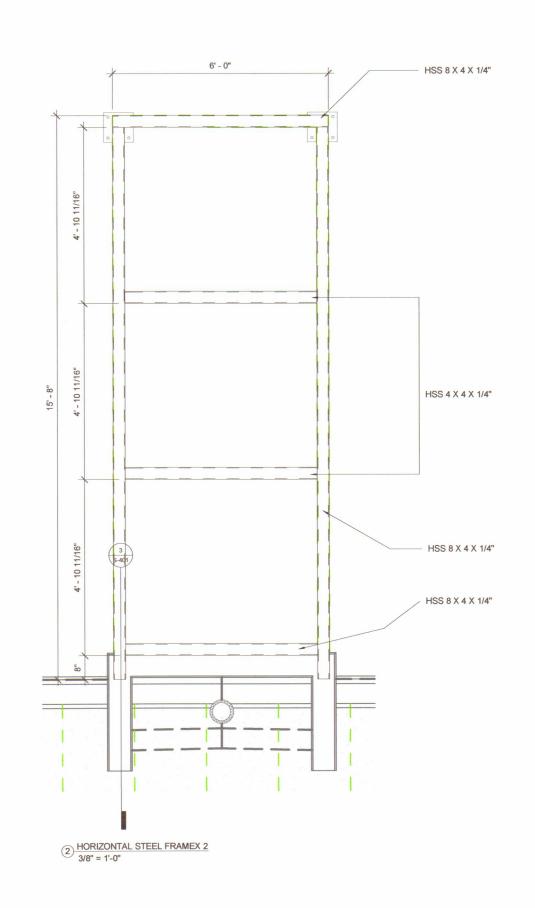


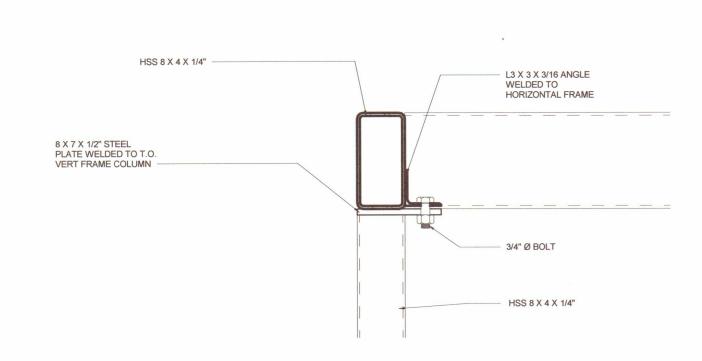


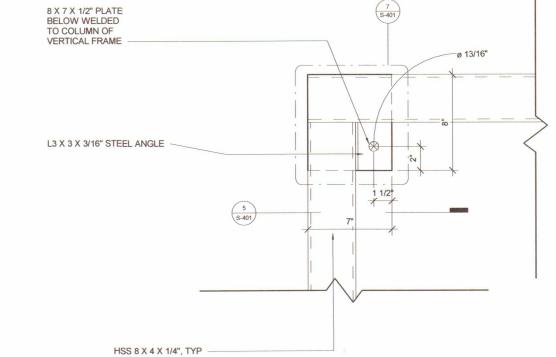


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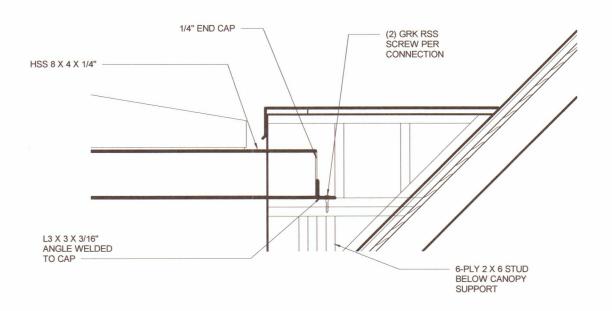




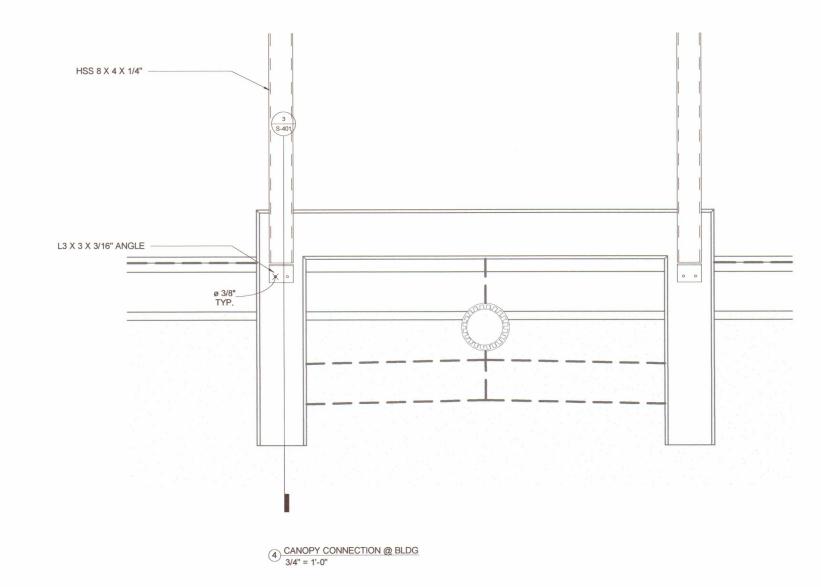


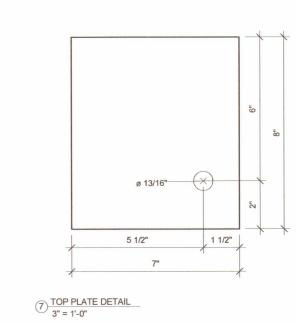


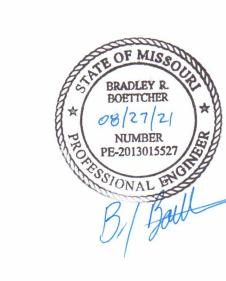


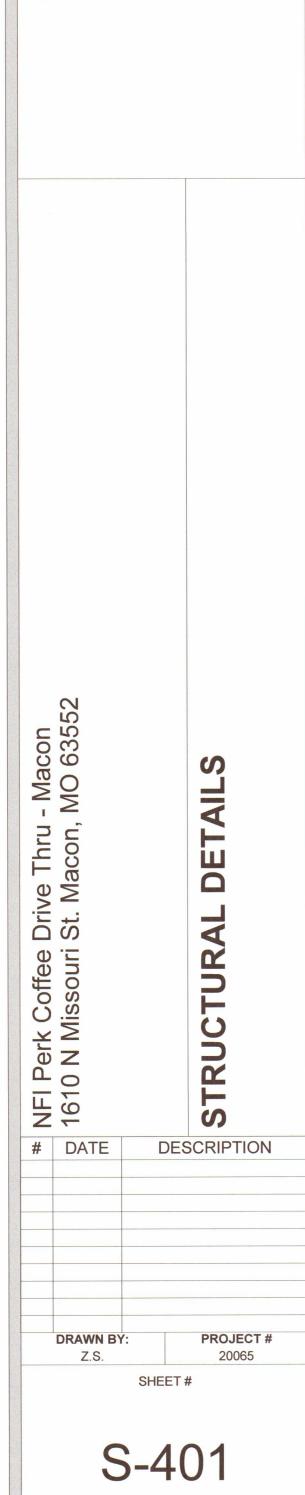


(3) CANOPY CONNECTION DETAIL @ BLDG 3/4" = 1'-0"





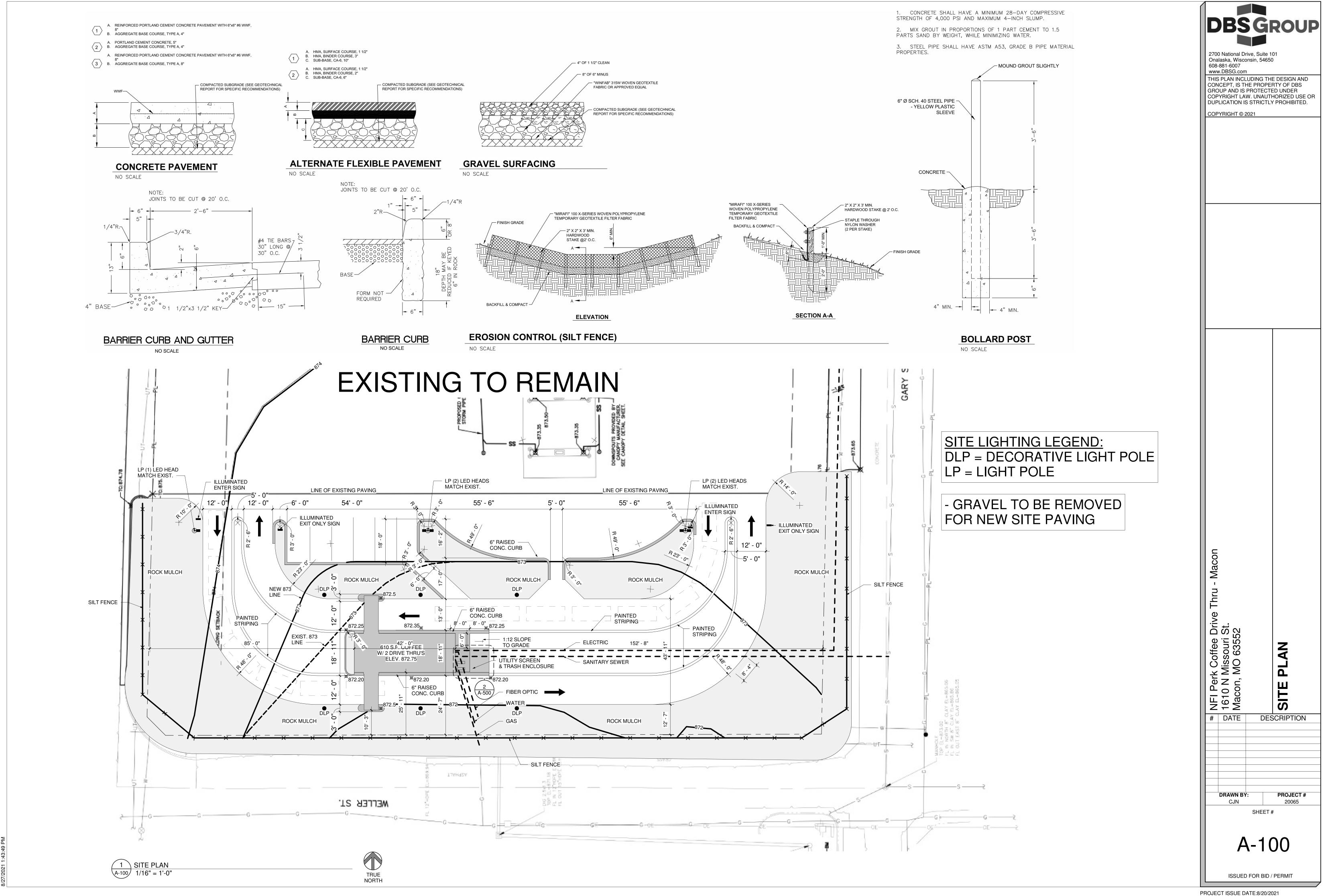


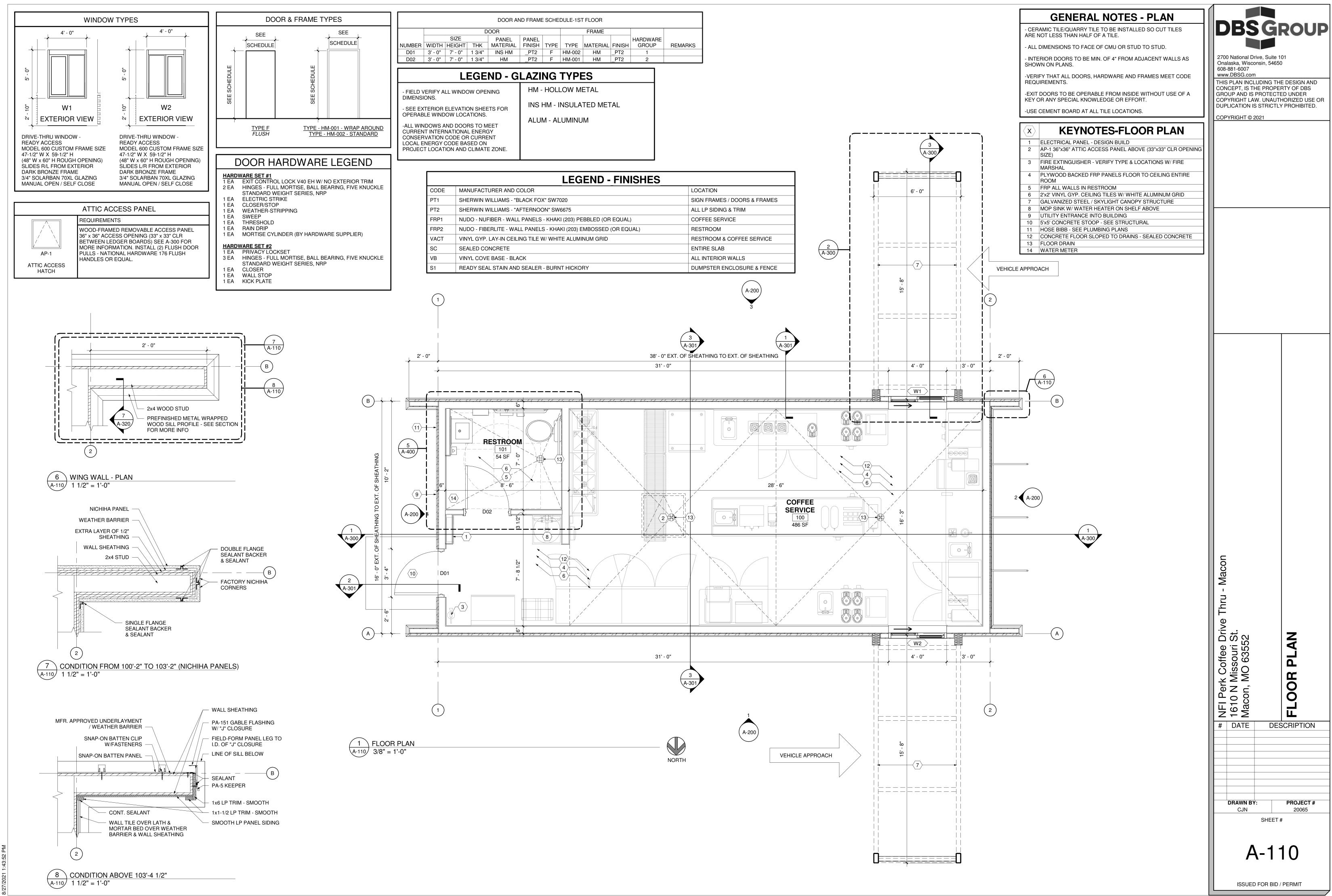


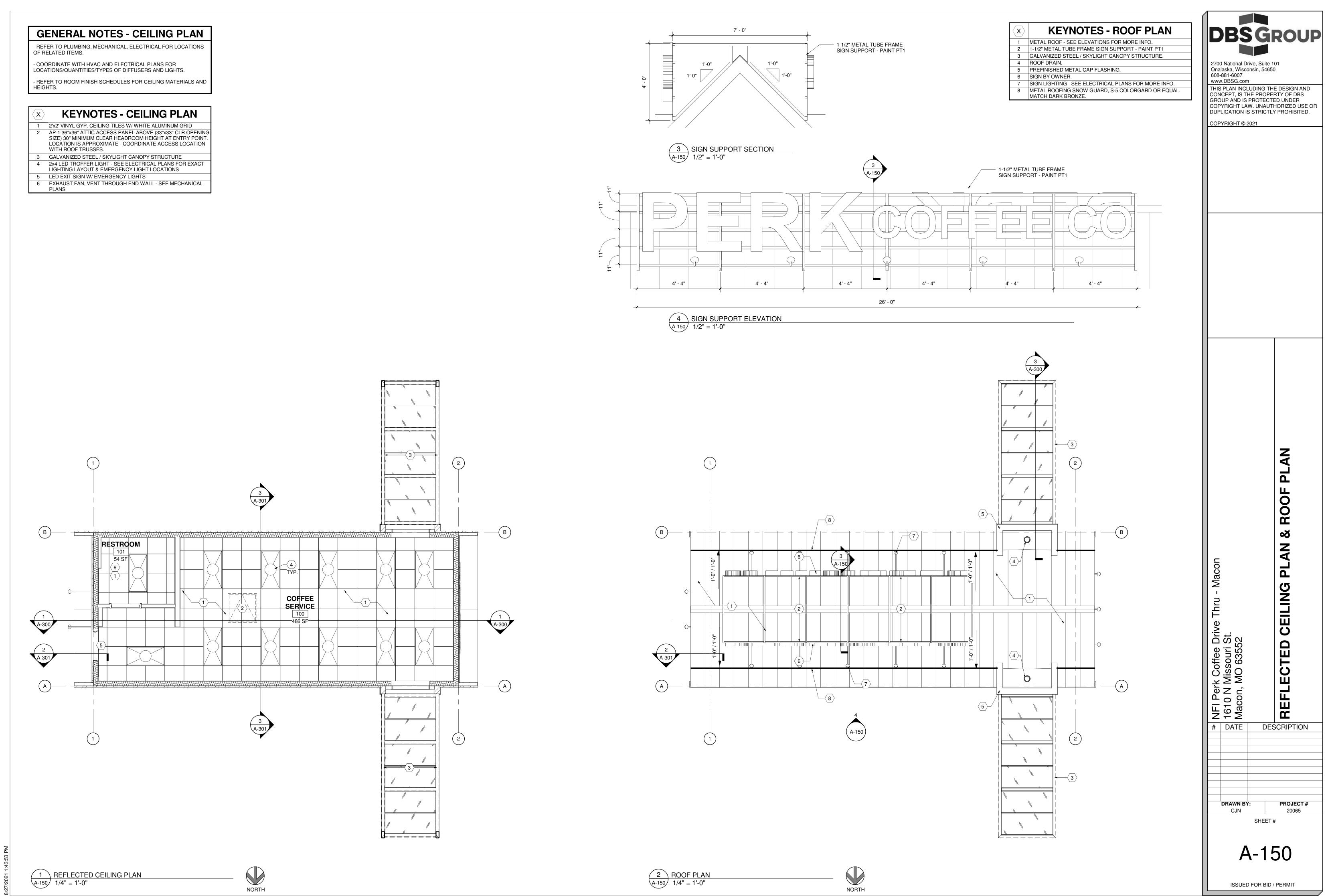
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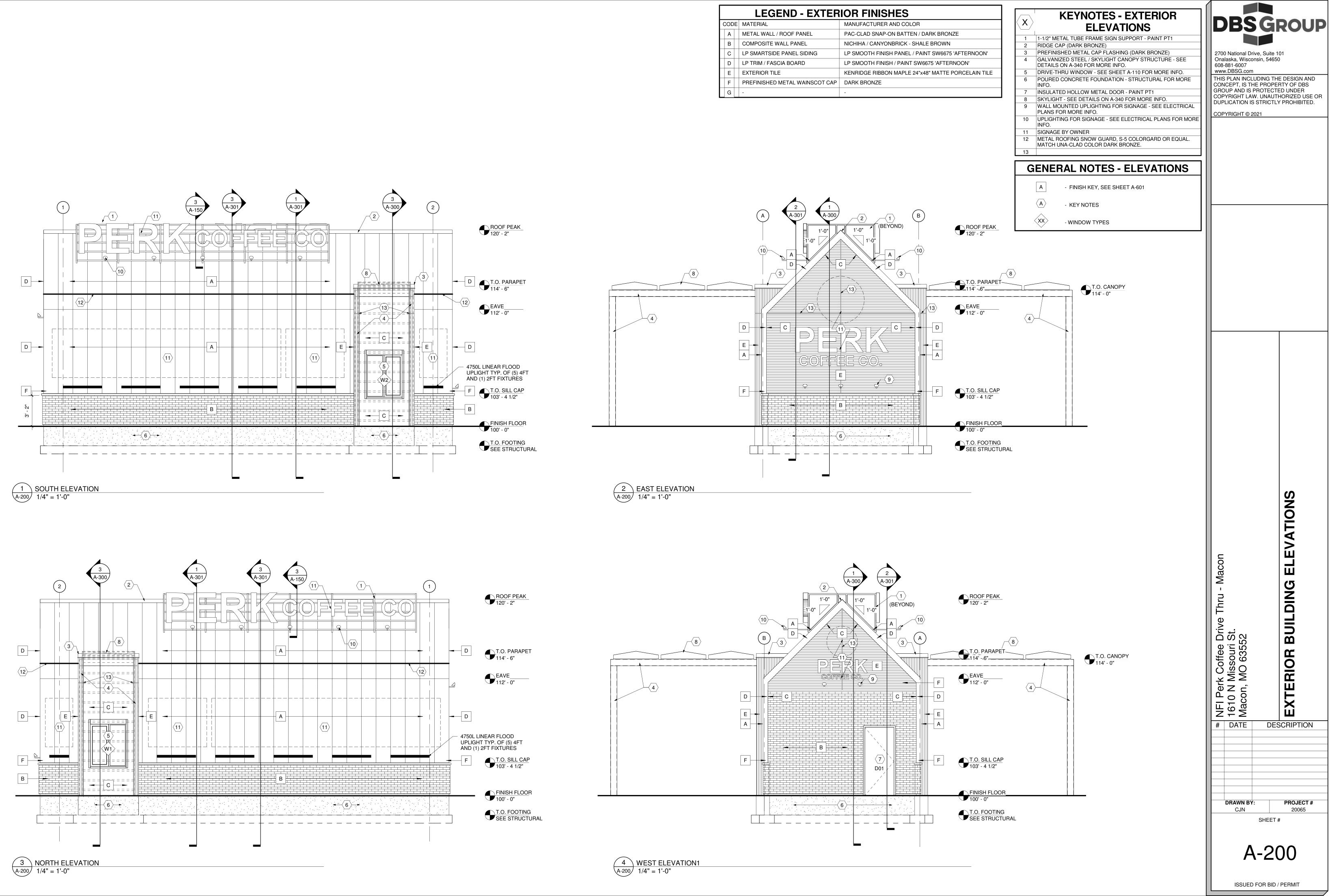
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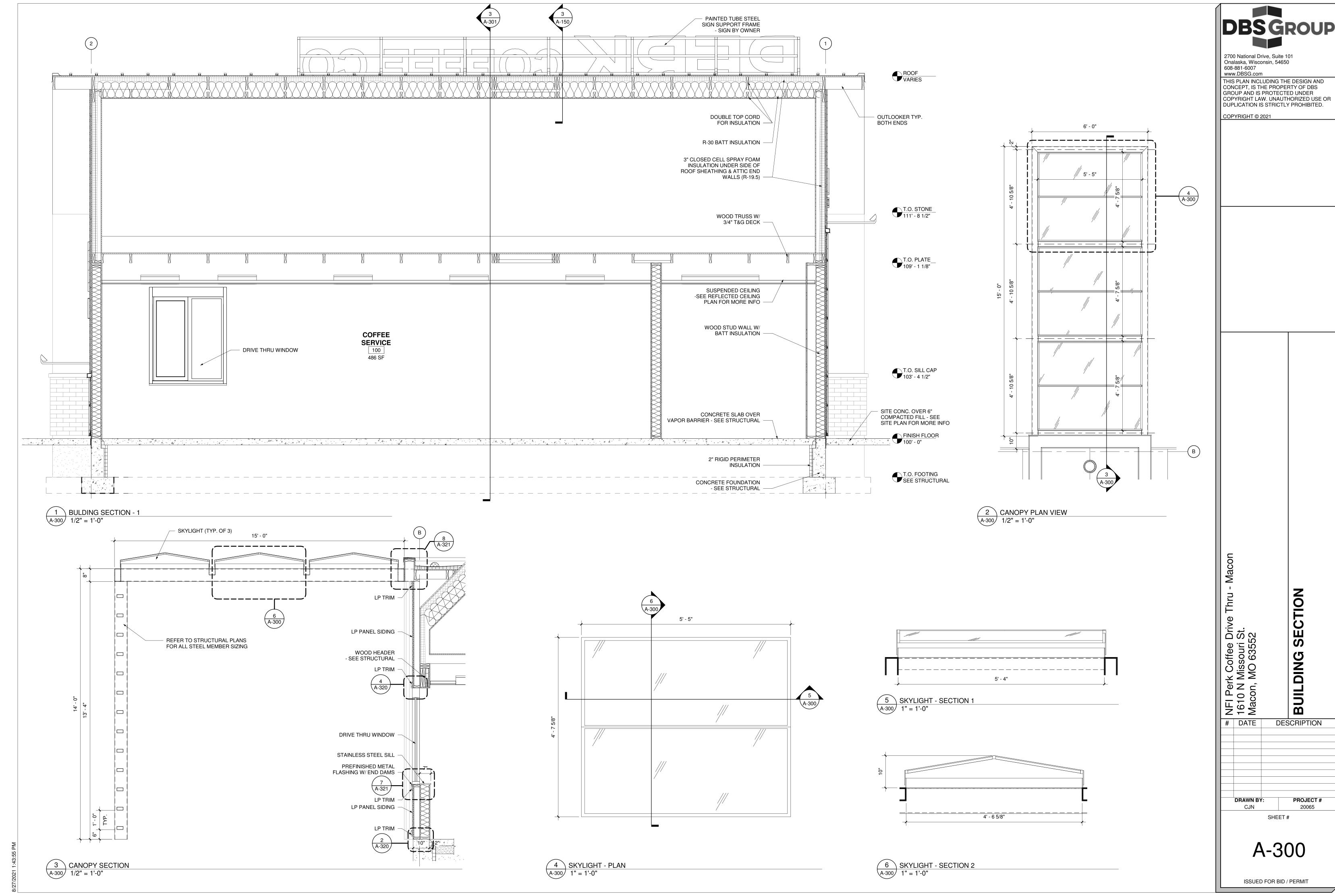
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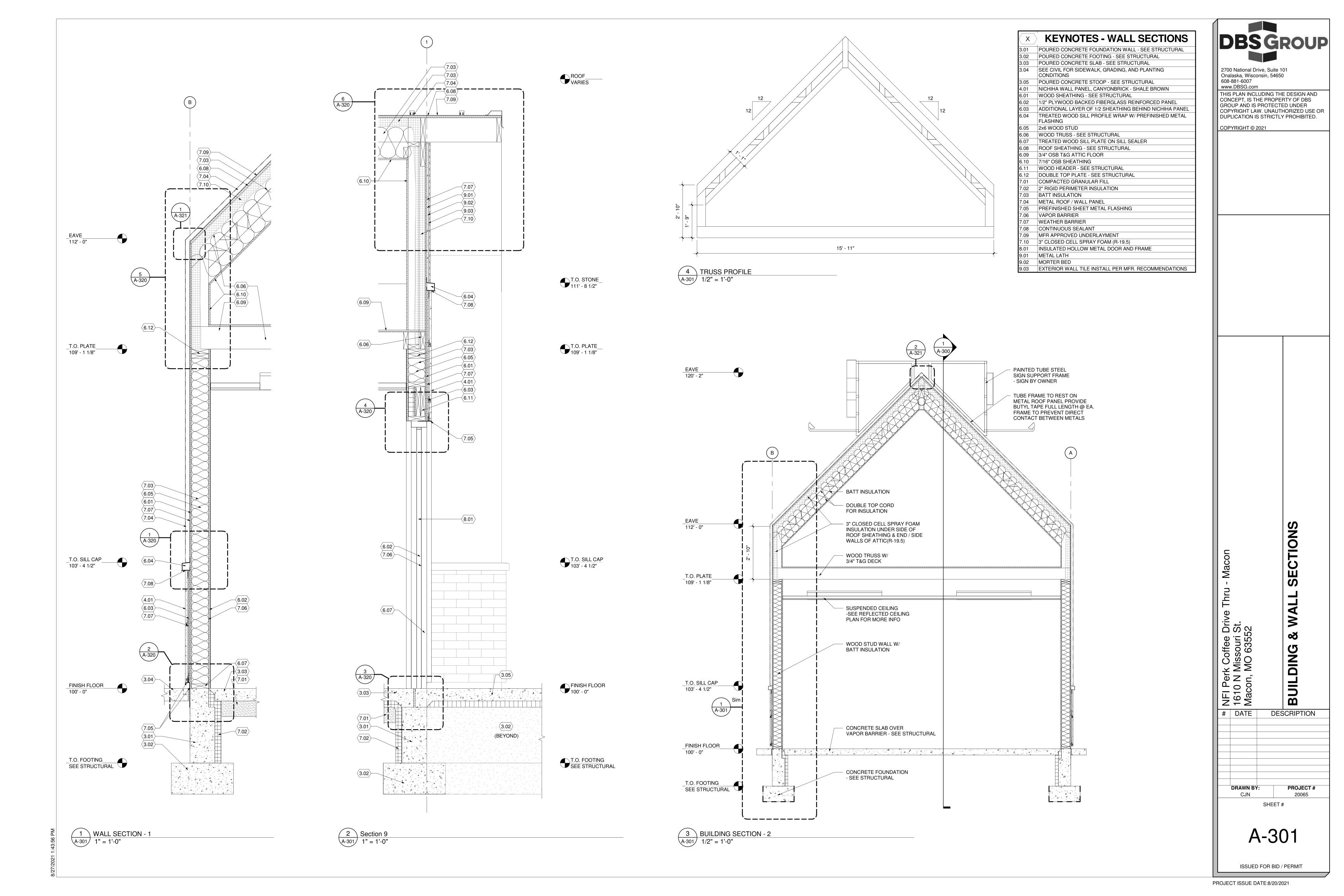
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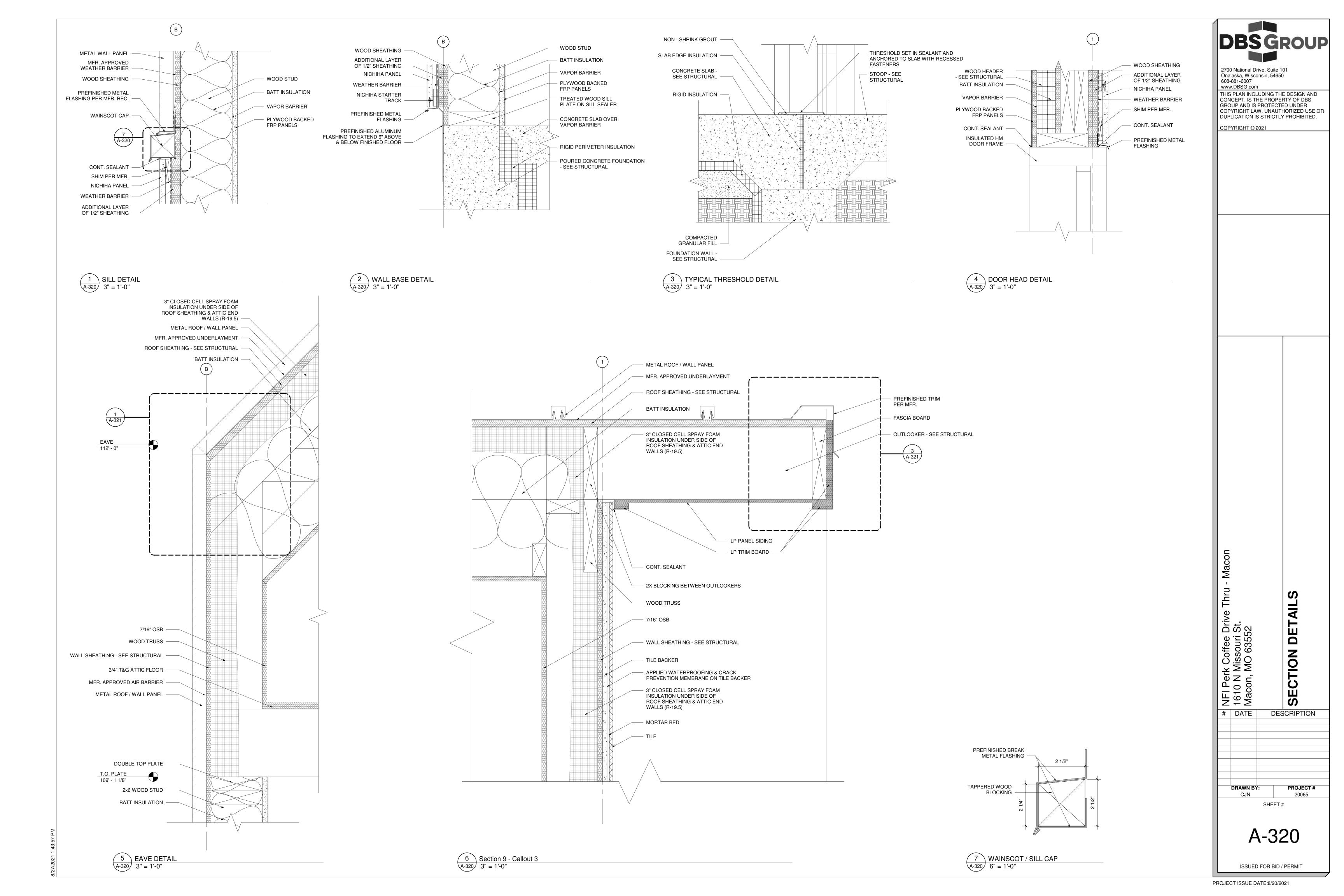
CEILING

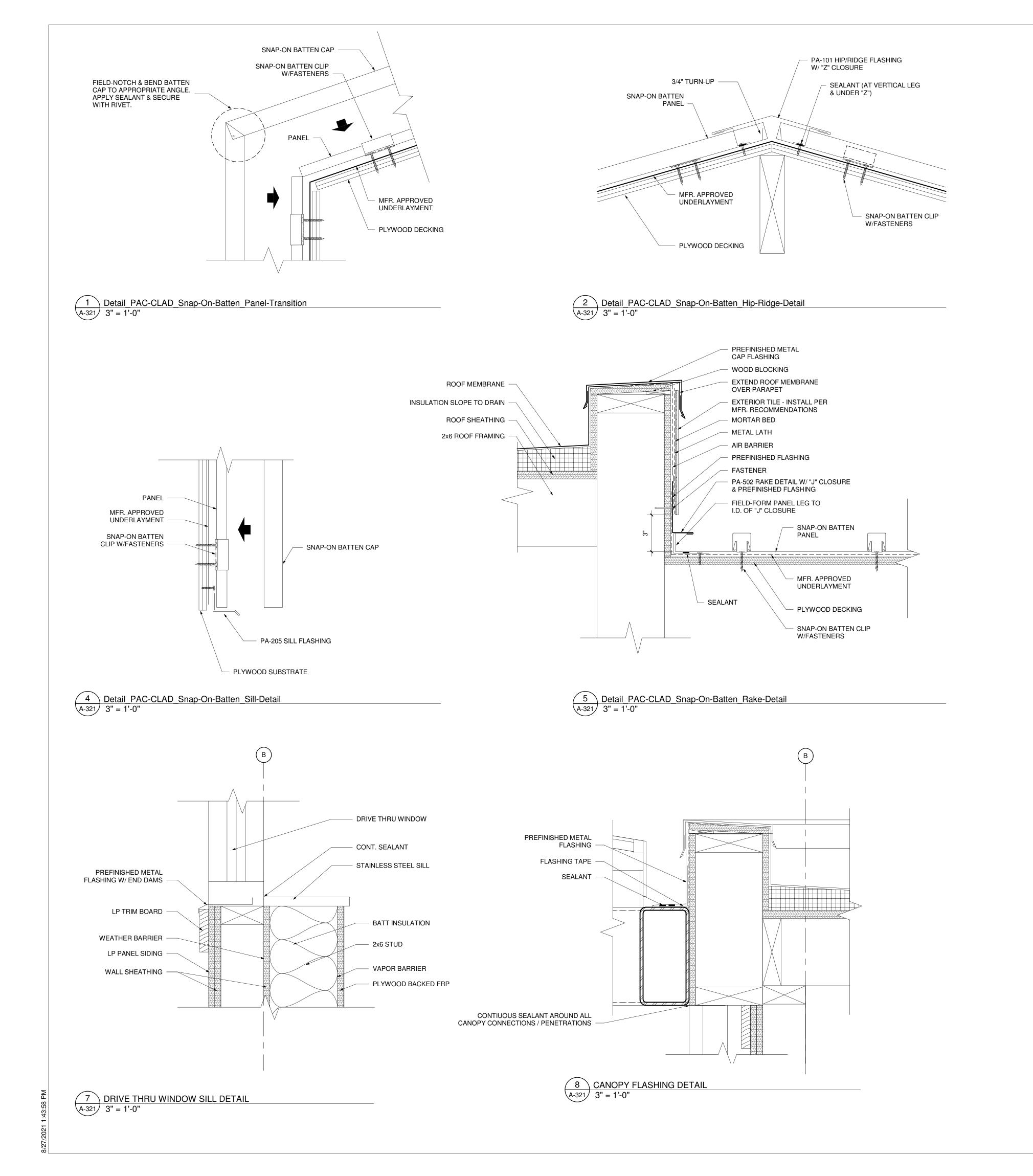
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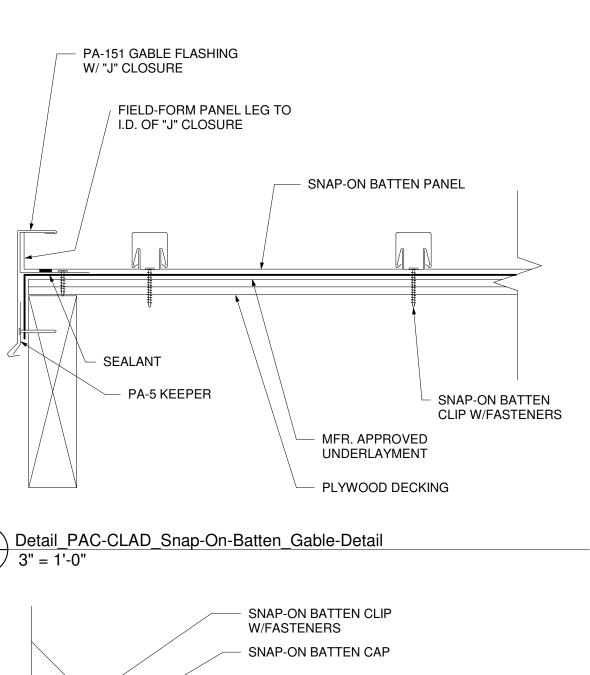


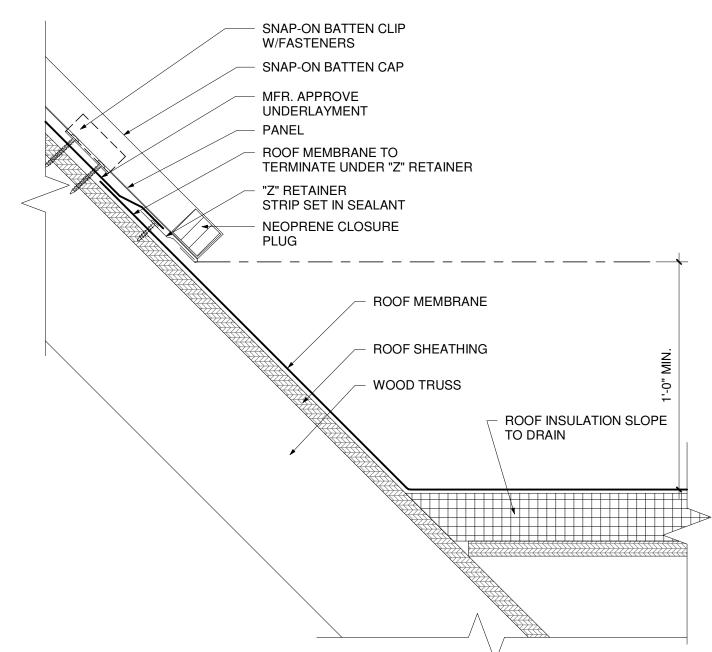








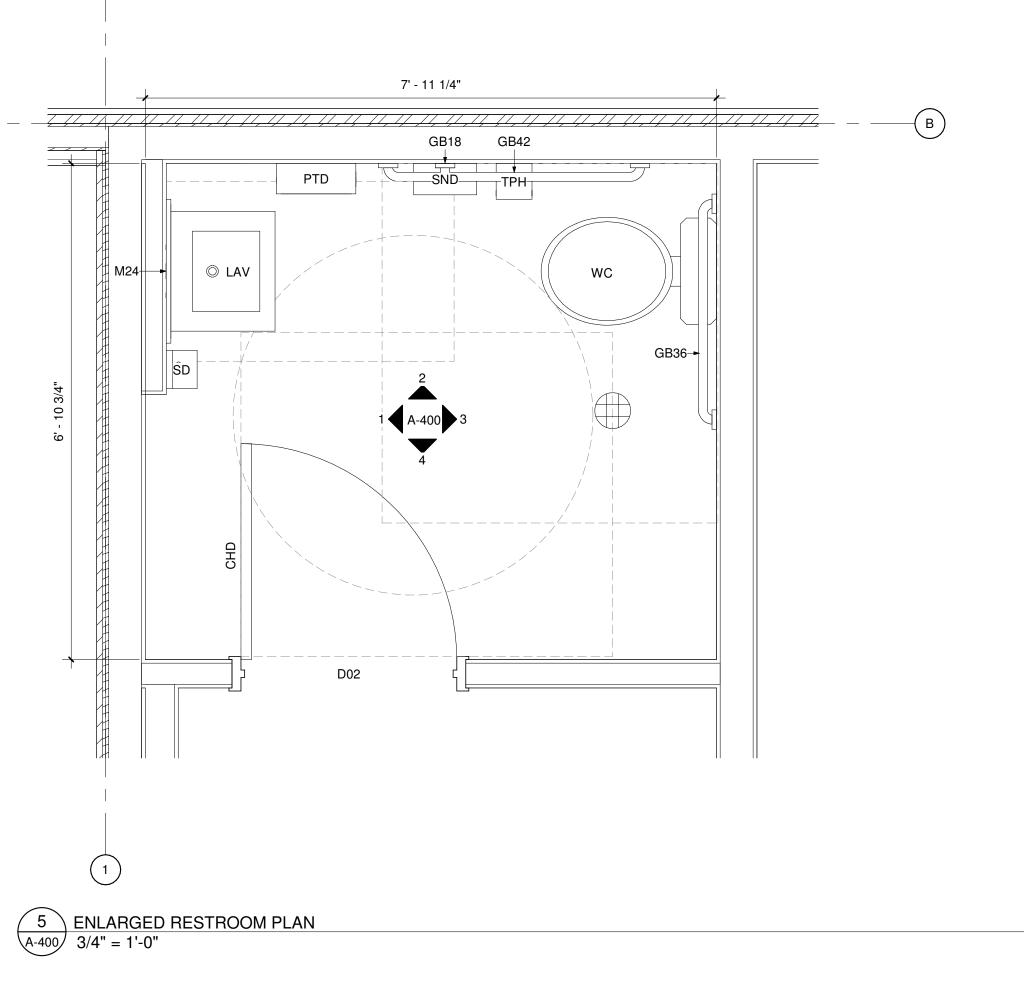


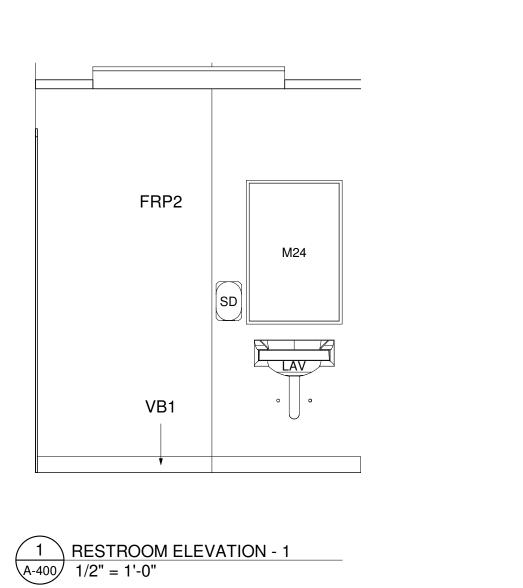


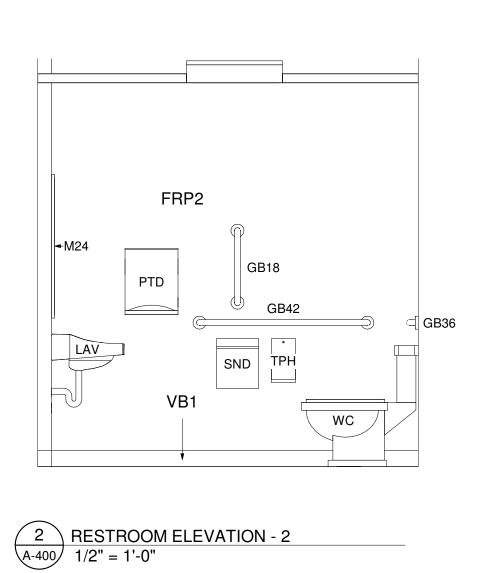
6 METAL ROOF TO ROOF MEMBRANE TRANSITION
A-321 3" = 1'-0"

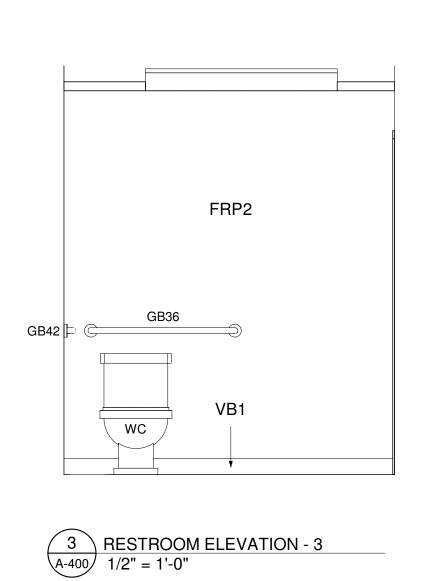
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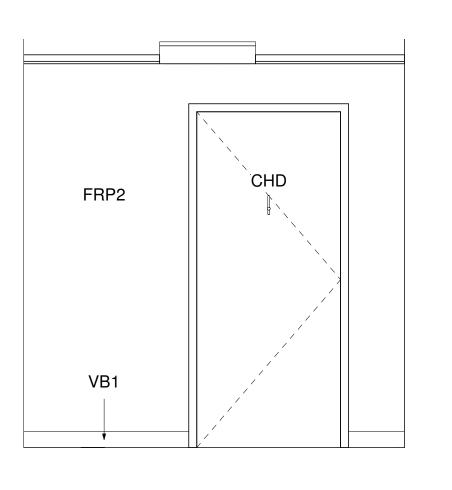
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4 RESTROOM ELEVATION - 4 A-400 1/2" = 1'-0"

GENERAL NOTES - TOILET ACCESS

- ACCESSIBLE TOILET ROOMS MUST HAVE FIXTURE HEIGHTS, GRAB BARS, I.D. SIGNAGE & ACCESSORIES TO MEET ALL APPLICABLE CODES & ACCESSIBILITY STANDARDS, BUT NOT LIMITED TO THOSE SHOWN ON THIS SHEET.

- TOILET PARTITION STALL DOORS MUST BE OPERABLE FROM BOTH SIDES WITHOUT A KEY, SPECIAL KNOWLEDGE OR EFFORT.

- I.D. SIGNAGE LETTERS & NUMERALS SHALL BE RAISED, UPPER CASE & BRAILLE. THE CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.

- PROVIDE BLOCKING IN WALLS FOR ALL ACCESSORIES INCLUDING LAVS, W.C.'S & GRAB BARS TO MEET ALL APPLICABLE CODES & ACCESSIBILITY STANDARDS.

TOILET ROOM ACCESSORIES

TAG ITEM

CHD COAT HOOK - DOOR MOUNTED

GB18 18" GRAB BAR

GB36 36" GRAB BAR GB42 42" GRAB BAR

GB42 42" GRAB BAR LAV LAVATORY

M24 24x36 MIRROR W/ STAINLESS STEEL CHANNEL FRAME

SND SANITARY NAPKIN DISPOSAL PTD PAPER TOWEL DISPENSER

SD SOAP DISPENSER

TPH TOILET PAPER HOLDER

FD FLOOR DRAIN
WC WATER CLOSET

WC WATER CLOSET SS SERVICE SINK

MBR MOP & BROOM HOLDER W/ SHELF

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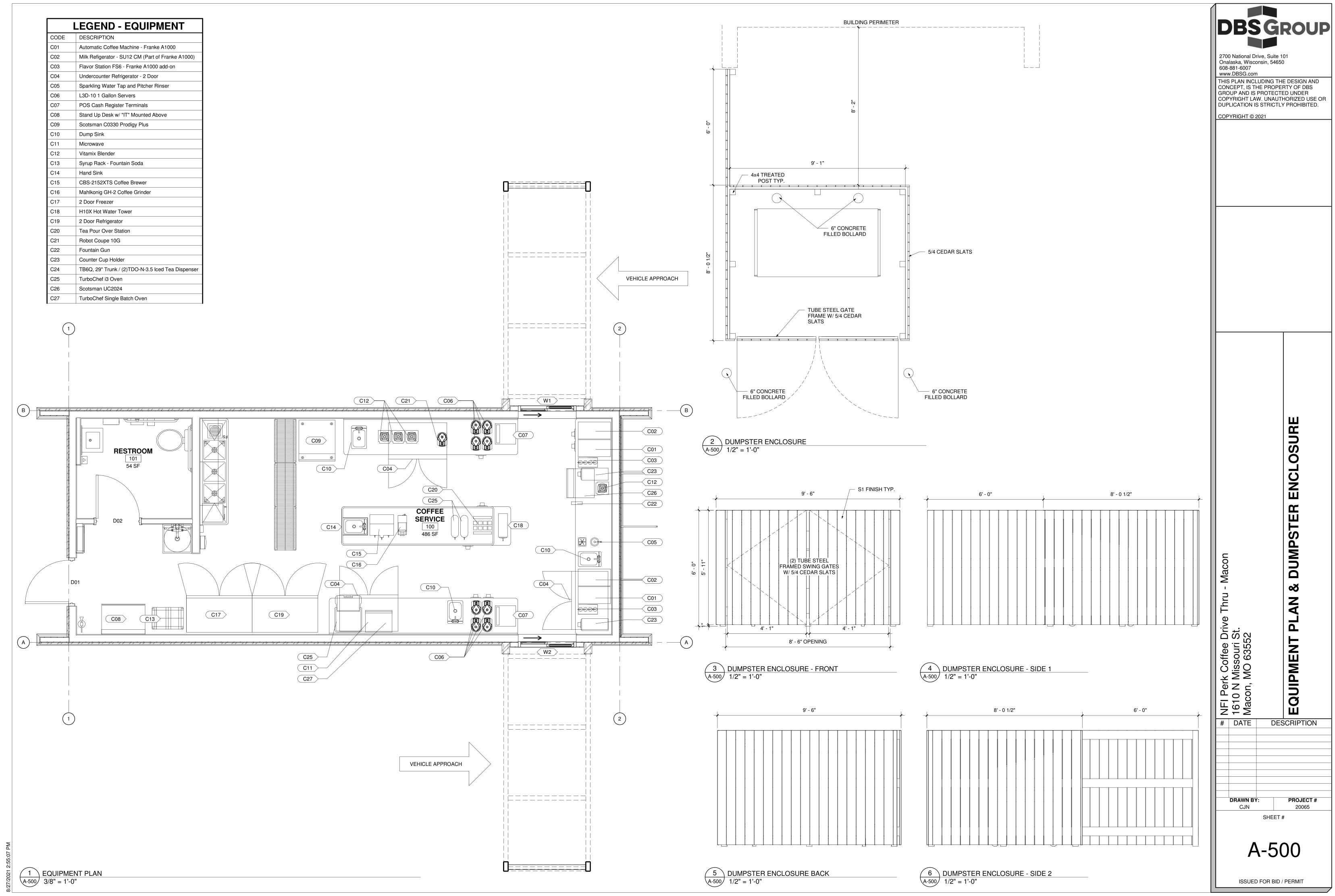
ARGED RESTROOM PLANS

NFI Perk Macon, I # DATE DESCRIPTION

DRAWN BY: PROJECT #

CJN 20065 SHEET #

A-400



PROJECT ISSUE DATE:8/20/2021