

PROPOSED NEW BUILDING FOR:

BRIOHN LAND DEVELOPMENT

CORPORATE DRIVE (TAX KEY WAKC1382005007)

WAUKESHA, WISCONSIN 53189



NORTHEAST CORNER PERSPECTIVE

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TITLE SHEET

PROPOSED NEW BUILDING FOR:
BRIOHN LAND DEVELOPMENT
 CORPORATE DRIVE
 (TAX KEY WAKC 1382005007)
 WAUKESHA, WI 53189

PLAN COMMISSION REVISION SUBMITTAL SET FEBRUARY 20, 2025

<p>OWNER : BRIOHN LAND DEVELOPMENT, LLC Joe Jursenas 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX</p>	<p>GENERAL CONTRACTOR : BRIOHN BUILDING CORPORATION Brad Wondra, Project Manager 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX</p>
<p>CIVIL ENGINEER: BRIOHN DESIGN GROUP LLC Rizal Iskandarsjach, PLS, PE 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX</p>	<p>ARCHITECT : BRIOHN DESIGN GROUP LLC Paul Grzeszczak, AIA 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX</p>
<p>LANDSCAPE ARCHITECT: LANDCO2 Kristi Sherfinski, PLA 5032 WEST FOREST HOME AVENUE, SUITE 5 MILWAUKEE, WISCONSIN 53219 (414) 622-0103 PHONE</p>	<p>STRUCTURAL ENGINEER: BRIOHN DESIGN GROUP LLC Kevin Jankowski, PE 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX</p>

PROJECT LOCATION



SITE LOCATION MAP
 SCALE: N.T.S.

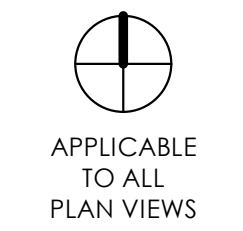
PROJECT INFORMATION:

CODE:	BUILDING CODE: 2015 IBC - INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 362 EXISTING BUILDING CODE: 2015 IBC - INTERNATIONAL EXISTING BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 366 ACCESSIBILITY CODE: 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ENERGY CODE: 2015 IECC - INTERNATIONAL ENERGY CONSERVATION CODE WITH WISCONSIN AMENDMENTS SPS 363 MECHANICAL CODE: 2015 IMC - INTERNATIONAL MECHANICAL CODE WITH WISCONSIN AMENDMENTS SPS 364 PLUMBING CODE: 2018 WISCONSIN PLUMBING CODE SPS 381-387 ELECTRICAL CODE: 2017 NEPA 70 NATIONAL ELECTRICAL CODE WITH WISCONSIN AMENDMENTS SPS316 FIRE CODE: SPS 314 FIRE PREVENTION
OCCUPANCY:	PRIMARY F-1 (MODERATE HAZARD STORAGE) SECONDARY S-1 (MODERATE HAZARD FACTORY) SECONDARY B (OFFICE/BUSINESS)
CLASS OF CONSTRUCTION:	TYPE 2B
SPRINKLER SYSTEM:	NEPA 13 AUTOMATIC SPRINKLER SYSTEM
FLOOR LEVELS:	1
NUMBER OF STORIES	1
BUILDING FOOTPRINT:	117,000 SF
ZONING:	M-3 GENERAL INDUSTRIAL DISTRICT
SETBACKS:	40' STREET 10' SIDE 10' REAR
PARKING:	84 STANDARD STALLS 5 HC STALLS
TOTAL PARKING (TOTAL ON-SITE):	89 TOTAL PARKING STALLS

Revision	Date

JOB: 240079
 DRAWN: CK
 CHECKED: DF/PG
 DATE: FEBRUARY 20, 2025
 SHEET:

T1.0



APPLICABLE TO ALL PLAN VIEWS

SITE WORK (CONTINUED)

EARTH WORK CONTINUED

PART 3 EXECUTION (CONTINUED)

3.10 STORAGE OF SOIL MATERIALS

A. STOCKPILE BORROW SOIL MATERIALS AND EXCAVATED SATISFACTORY SOIL MATERIALS WITHOUT INTERMIXING, PLACED, GRADED, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. FINISH GRAD TO PREVENT EROSION. STOCKPILES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.

3.11 BACKFILL

A. PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY, BUT NOT BEFORE COMPLETING THE FOLLOWING:

1. REMOVE POOR BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, SUBDRAINAGE, DAMPPROOFING, WATERPROOFING, AND PERIMETER INSULATION.
2. SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD DOCUMENTS.
3. TESTING AND INSPECTING UNDERGROUND UTILITIES.
4. REMOVING CONCRETE FORMWORK.
5. REMOVING TRASH AND DEBRIS.
6. REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING.
7. INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON HORIZONTALLY UNSATURATED WALLS.
8. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

3.12 UTILITY TRENCH BACKFILL

A. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

B. PLACE AND COMPACT BEDDING COURSE ON TRENCH BOTTOMS AND WHERE NECESSARY, SHAPE BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS.

C. CONFORM TO CLASS B COMPACTED TRENCH SECTION IN ACCORDANCE WITH FILE 82.301.1 (1)H) OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.

D. BEDDING PLACEMENT: CONFORM TO SECTION 3.2.6 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.

E. BACKFILL PLACEMENT: CONFORM TO SECTION 2.6.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. BACKFILL PLACEMENT: CONFORM TO SECTION 82.301.1 (1)H).

F. INSTALL TRACER WIRE ABOVE NON-METALLIC PIPING IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF COMMERCE CODE SECTION 82.301.1 (1)H).

G. PLACE SOIL FILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

H. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS AS FOLLOWS:

1. UNDER GRASS AND PLANTED AREAS, USE SATISFACTORY SOIL MATERIAL.
2. UNDER WALLS AND PAVEMENTS, USE SATISFACTORY SOIL MATERIAL.
3. UNDER STEPS AND RAMPS, USE ENGINEERED FILL.
4. UNDER BUILDING SLABS, USE ENGINEERED FILL.
5. UNDER FOOTINGS AND FOUNDATIONS, USE ENGINEERED FILL.
6. PLACE SOIL FILL ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.

3.13 SOIL MOISTURE CONTROL

A. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL SOIL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.

B. DO NOT PLACE BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.

C. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.

D. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED DRY UNIT WEIGHT.

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SITE WORK (CONTINUED)

EARTH WORK CONTINUED

PART 3 EXECUTION (CONTINUED)

3.20 PROTECTION

A. PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS.

B. REPAIR AND REESTABLISH GRAD TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.

C. SCARIFY OR REMOVE AND REPLACE SOIL MATERIAL TO DEPTH AS DIRECTED BY ARCHITECT; RESHAPE AND RECOMPACT.

D. WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE EXISTING BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACING.

E. RESTORE APPEARANCE, QUALITY, AND CONDITION OF FINISHED SURFACING TO MATCH ADJACENT WORK, AND ELIMINATE EVIDENCE OF RESTORATION TO GREATEST EXTENT POSSIBLE.

3.21 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. DISPOSAL: REMOVE SURPLUS SATISFACTORY SOIL AND WASTE MATERIAL, INCLUDING UNSATURATED SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF IT OFF OWNER'S PROPERTY.

HOT-MIX ASPHALT PAVING

PART 1 GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES HOT-MIX ASPHALT PAVING.

1. SECTION 31 20 00 EARTHWORK

1.2 REFERENCES

A. STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION (WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION).

1.3 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE TECHNICAL DATA AND TESTED PHYSICAL AND PERFORMANCE PROPERTIES.

B. JOB-MIX DESIGNS: CERTIFICATION THAT MIX MEETS OR EXCEEDS WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

C. MATERIAL CERTIFICATES CERTIFYING COMPLIANCE WITH WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

1.4 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.

B. REGULATORY REQUIREMENTS: COMPLY WITH WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION FOR ASPHALT PAVING WORK.

1.5 PROJECT CONDITIONS

A. ENVIRONMENTAL LIMITATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.

B. REGULATORY REQUIREMENTS: COMPLY WITH WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION FOR ASPHALT PAVING WORK.

C. REGULATORY REQUIREMENTS: COMPLY WITH WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION FOR ASPHALT PAVING WORK.

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AK. REGULATORY REQUIREMENTS: COMPLY WITH WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION FOR ASPHALT PAVING WORK.

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SITE WORK (CONTINUED)

CEMENT CONCRETE PAVEMENT

PART 1 GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES EXTERIOR CEMENT CONCRETE PAVEMENT FOR THE FOLLOWING:

1. SITE CURBS AND GUTTERS
2. SITE WALKS
3. PUBLIC SIDEWALK
4. DRIVE APPROACH
5. PUBLIC CURBS AND GUTTER

B. RELATED SECTIONS

1. SECTION 31 20 00 EARTHWORK

1.2 REFERENCES

A. WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION

B. CITY OF MILWAUKEE STREET CONSTRUCTION SPECIFICATIONS

1.3 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

B. DESIGN MIXTURES: FOR EACH CONCRETE PAVEMENT MIXTURE.

1.4 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS: MANUFACTURER OF READY-MIXED CONCRETE PRODUCTS WHO COMPLIES WITH ASTM C 94/C 94M REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT AND APPROVED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

B. THE WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, UNLESS MODIFIED BY AGREEMENTS IN THE CONTRACT DOCUMENTS.

C. MOCKUPS: PROVIDE MOCKUPS OF DECORATIVE STAMPED CONCRETE PAVING NOT LESS THAN 6" HIGH BY 6" WIDE STREET CONSTRUCTION SPECIFICATIONS FOR WORK IN THE PUBLIC RIGHT-OF-WAY.

1.5 PROJECT CONDITIONS

A. ENVIRONMENTAL LIMITATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.

B. REGULATORY REQUIREMENTS: COMPLY WITH WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION FOR ASPHALT PAVING WORK.

1.6 PROJECT CONDITIONS

A. ENVIRONMENTAL LIMITATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.

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DOORS AND WINDOWS

- PROVIDE PRIMED HOLLOW METAL GALVANIZED FRAMES FOR EXTERIOR DOOR FRAME. PROVIDE FINISH HARDWARE FOR INTERIOR DOORS. WEATHERSTRIPPING IS IDENTIFIED ON THE DOOR SCHEDULE PROVIDE CURISREAL TYPE WEATHER STRIPPING FOR EXTERIOR AND INTERIOR APPLICATIONS.
- PROVIDE HOLLOW METAL EXIT DOOR CONSTRUCTED WITH THE FOLLOWING MATERIALS:
 - MINIMUM 18 GA. FOR FACE SHEETS OF INTERIOR DOORS.
 - 16 GA. FOR EDGE CHANNELS.
 - MINIMUM 22 GA. FOR FACE STIFFENERS.
 - MINIMUM 16 GA. FOR INTERIOR FRAMES.
- PROVIDE DOORS OF SIZES AND TYPES INDICATED ON DRAWINGS. FULLY WELDED SEAMLESS CONSTRUCTION WITH NO VISIBLE SEAMS OR JOINTS ON FACES OR VERTICAL EDGES. THICKNESS AS SCHEDULED ON DRAWINGS.
 - FACE STIFFENERS, EDGES AND HARDWARE REINFORCEMENT SHALL BE THE HIGHEST QUALITY WORKMANSHIP AND MATERIALS. PROVIDE IN ACCORDANCE WITH BEST TRADE PRACTICE AND MANUFACTURERS WRITTEN REQUIREMENTS AND RECOMMENDATIONS FOR THE USE INTENDED.
 - PROVIDE CUSTOM MADE WELDED UNITS WITH INTEGRAL TRIM. SIZES AND SHAPES AS INDICATED ON DRAWINGS. FABRICATE UNITS SQUARE, TRUE AND FREE FROM DEFECTS.
 - HARDWARE REINFORCEMENT AND ANCHORS (ERECTION, FLOOR, AND JAMBS) SHALL BE AS REQUIRED FOR A SECURE INSTALLATION AND SHALL BE IN ACCORDANCE WITH TRADE REQUIREMENTS FOR THE SPECIFIED HARDWARE AND INTENDED USE.
 - INSTALL FRAMES IN ACCURATE LOCATIONS AS INDICATED ON DRAWINGS. INSTALL RIGID, PLUMB, LEVEL AND TRUE. ALIGN WITH ADJACENT CONSTRUCTION. SECURE FLOOR ANCHORS TO FLOOR CONSTRUCTION WITH APPROVED TYPE MECHANICAL FASTENINGS. ANCHOR TO ADJOINING WALLS WITH SPECIFIED ANCHORS. BRACE FRAMES TO RETAIN POSITION AND CONTINUOUSLY CHECK ALIGNMENT DURING CONSTRUCTION OF ADJACENT WALLS. ADJUST FRAME LOCATIONS AS NECESSARY USING SHIMS BEFORE FASTENING. LEAVE READY TO RECEIVE SEALANT WHERE INDICATED ON DRAWINGS. ADJUST AND CHECK OPERATION OF EVERY UNIT. REPAIR OR REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY.
 - INSTALL WOOD DOORS, FRAMES AND TRIM. SIZES AND THICKNESS AS SCHEDULED ON DRAWINGS.
 - HANG DOORS AS SCHEDULED ON DRAWINGS. IN ACCURATE LOCATIONS WITH 1/8" CLEARANCE AT THE TOPS AND 3/8" CLEARANCE AT BOTTOM. UNLESS SPECIFICALLY NOTED FOR UNDERDOORS OR OTHER DEVIATIONS IN FIT. MAKE NO JOBS FIT IN CUTS AND OTHER ANCHORS IN ACCORDANCE WITH THE MATERIAL TO WHICH THE HARDWARE IS TO BE APPLIED TO AND THE RECOMMENDATIONS OF THE HARDWARE MANUFACTURER. FASTENER FINISH SHALL HARMONIZE WITH THE HARDWARE MATERIAL.
 - COORDINATE WITH OTHER TRADES TO ASSURE PROPER AND ADEQUATE PROVISION IN THE WORK OF THOSE TRADES FOR INTERFACE WITH THE WORK OF HIS SECTION.

FINISHES

- GENERAL FINISH REQUIREMENTS:
 - PROVIDE AND INSTALL ALL FINISHES AS INDICATED ON PLANS.
 - INSTALL ALL MATERIALS PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
 - FINISH INSTALLER INSPECT SUBSURFACE AND PREPARE AS PER REQUIREMENTS, RECOMMENDATIONS, AND SPECIFICATIONS PRIOR TO PROTECT.
 - ALL FINISHES TO MEET ALL CODE REQUIREMENTS AND REGULATIONS FLAME SPREAD AND SMOKE DEVELOPMENT.

SPECIALTIES

- NOT USED.

EQUIPMENT

- NOT USED.

FURNISHINGS

- NOT USED.

SPECIAL CONSTRUCTION

- NOT USED.

CONVEYING SYSTEMS

- NOT USED.

MECHANICAL

- NOT USED.

ELECTRICAL

- NOT USED.

WOOD AND PLASTICS

- PROVIDE AND/OR INSTALL ALL ROUGH CARPENTRY, FINISH CARPENTRY INCLUDING MILLWORK, FINISH HARDWARE, ROUGH HARDWARE, FASTENING DEVICES AND MISCELLANEOUS ACCESSORIES AS MAY BE REQUIRED HEREIN AND/OR AS SHOWN ON THE DRAWINGS.
- ROUGH CARPENTRY: FURNISH AND INSTALL ALL FRAMING AS MAY BE REQUIRED FOR INTERIOR PARTITION, BAFFLE, WALLS, SOFFITS, CEILING, STOREFRONTS, EXTERIOR WALLS, ETC. AS NOTED AND WHERE SHOWN ON THE DRAWINGS.
- FINISH CARPENTRY: FURNISH AND INSTALL ALL THAT IS REQUIRED FOR DOORS AND FRAMES, FINISH TRIM AND PANELING. PERFORM FINISH CARPENTRY WORK IN ACCORDANCE WITH AWI QUALITY STANDARDS, PREMIUM GRADE. USE FULL LENGTH PIECES, MITER ALL JOINTS, SHOULDER JOINT AT DOOR JAMBS. FILL ALL NAIL HOLES AND SAND SMOOTH.
- PROVIDE ROUGH LUMBER AND PLYWOOD IN STANDARD DIMENSIONS, MOISTURE CONTENT NOT MORE THAN 19%.
- PROVIDE ALL NECESSARY ROUGH HARDWARE IN SIZES AND QUANTITIES REQUIRED BY LOCAL CODE OR APPROVED BY ARCHITECT.
- USE FINISH OR CASING NAILS FOR EXPOSED WORK. USE TYPE 3" TRI HEAD SCREWS FOR ATTACHMENT OF WOOD TRIM TO METAL STUDS, RUNNERS OR FURRING.
- RELIEVE BACKS OF WOOD TRIM. KERF BACKS OF MEMBERS MORE THAN 5" WIDE AND 1" NOMINAL THICKNESS. EASE ALL EXTERNAL CORNERS.
- INSTALL LAMINATES ONLY WHEN RECEIVING SURFACES ARE IN SATISFACTORY CONDITION FOR INSTALLATION.
- USE ADHESIVES RECOMMENDED BY THE MANUFACTURER FOR THE PARTICULAR APPLICATION. INSTALL IN ACCORDANCE WITH MANUFACTURERS MOST CURRENT PRINTED APPLICATION INSTRUCTIONS. USE LOWEST VOC ADHESIVES AVAILABLE WHICH MEET OR EXCEED THE MANUFACTURERS REQUIREMENTS.
- PROTECT FROM DAMAGE BY OTHER TRADES WORKING ADJACENT TO THE INSTALLATION. REPLACE DAMAGED SURFACES.
- REMOVE EXCESS ADHESIVE AND CLEAN SURFACES USING MANUFACTURERS RECOMMENDED SOLVENT AND CLEANING PROCEDURES.
- FILL IN ALL SEAMS WITH MANUFACTURERS RECOMMENDED SOLVENT AND CLEANING PROCEDURES. USE LOWEST VOC CLEANING AGENTS AVAILABLE THAT MEET OR EXCEED THE MANUFACTURERS REQUIREMENTS.
- WOOD PRODUCTS SHALL MEET OR EXCEED THE AMERICAN WOODWORK INSTITUTE STANDARDS.
- INSTALL WOODS AND PLASTICS IN CONFORMANCE WITH DETAILS AND THE FOLLOWING CONSIDERATIONS AND REQUIREMENTS:
 - INSTALL WOODS AND PLASTICS WITH TIGHT JOINTS.
 - MITER CASINGS AND MOLDINGS UNLESS OTHERWISE NOTED.
 - ALL RUNNINGS TRIM ONE (1) PIECE UP TO 10'-0" LONG. MATCH GRAIN AND COLOR PIECE TO PIECE.
 - USE FINISH NAILS EXCEPT WHERE ARE SPECIFICALLY CALLED FOR OR WHERE SCREWS DO NOT SHOW.
 - SET FASTENERS FOR PUTTYING.
 - WHERE SCREW ATTACHMENT REQUIRED, SPACE SCREWS AT EQUAL INTERVALS. SINK AND PUTTY IN WOOD SURFACES.
 - ALL MEMBERS AND LINES LEVEL AND PLUMB.
 - SELECT AND CUT MATERIAL TO EXCLUDE DAMAGED, MARKED OR DEFECTIVE AREAS.
 - FINISH EXPOSED SURFACES SMOOTH, FREE FROM TOOL AND MACHINE MARKS.
 - EASE ALL EXPOSED WOOD EDGES 1/8" MINIMUM RADIUS.
 - INSTALL FIRE RATED DOORS IN ACCORDANCE WITH REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RECOMMENDATIONS AND SPECIFICATIONS.

WOOD: LUMBER

- LUMBER SHALL BE GRADED AND STAMPED WITH MINIMUM STRUCTURAL DESIGN VALUES AS LISTED BELOW:
 - #1/#2 DOUGLAS FIR 850 PSI FB, 95 PSI FV.
 - 1600 KS E (BEAMS, JOISTS, LINTELS & HEADERS, UNLESS OTHERWISE NOTED)
 - #1/#2 S.P.F., 875 PSI FB, 1150 PSI FV, 1400 SKI (ALL STUDS & PLATES, UNLESS OTHERWISE NOTED)
 - LVL @ 1800 KS E OR MICRO-LAM @ 1900 KS E 2600 PSI FB, 285 PSI FV (OR AS NOTED ON STRUCTURAL DRAWINGS)
 - WOOD HEADER AND FRAMING MATERIAL SHALL BE THOROUGHLY SEASONED, FREE FROM WARP AND FREE OF ALL SPLITS, SHAKES AND CHECKS.
- MISCELLANEOUS LUMBER: PROVIDE 3 OR STANDARD GRADE LUMBER OF ANY SPECIES FOR SUPPORT OR ATTACHMENT OF OTHER CONSTRUCTION, INCLUDING ROOFTOP EQUIPMENT CURBS AND SUPPORT BASES, CANT STRIPS, BUCKS, NAILERS, BLOCKING AND SIMILAR MEMBERS.
 - PROTECTION AGAINST DECAY WITH PRESERVATIVE-TREATED WOOD SHALL BE REQUIRED IN THE FOLLOWING AREAS:
 - WOOD SILL PLATES, FRAMING AND FURRING STRIPS ATTACHED TO EXTERIOR BELOW GRADE MASONRY AND CONCRETE WALLS.
 - ALL WOOD PLATES, BLOCKING, FRAMING AND FURRING STRIPS ATTACHED TO EXTERIOR, SINGLE WITH MASONRY WALLS.
 - ALL WOOD GRAFT FLASHING/BLOCKING ATTACHED TO MASONRY OR CONCRETE PARAPETS.
 - ALL WOOD SLEEPERS AND SILL PLATES ON CONCRETE SLABS INDIRECT CONTACT WITH EARTH.
 - ALL WOOD IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER.
 - FINISHES FOR FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD ARE BASED ON THE FOLLOWING ASSUMPTIONS:
 - INTERIOR TREATED WOOD SHALL USE AWPA-C, ACQ-D (CARBONATE), CBA-A OR CA-B TREATMENT WITH RETENTION LEVELS LESS THAN OR EQUAL TO 0.40 PCF, 0.40 PCF, 0.41 PCF AND 0.21 PCF RESPECTIVELY.
 - ALL CONNECTION HARDWARE AND FASTENERS IN DIRECT CONTACT WITH INTERIOR TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY GALVANIZED OR STAINLESS STEEL.
 - ALL CONNECTION HARDWARE AND FASTENERS IN DIRECT CONTACT WITH EXPOSED EXTERIOR TREATED WOOD OR UNKNOWN TREATMENTS SHALL BE STAINLESS STEEL.
 - SHOP DRAWINGS FOR PRESERVATIVE-TREATED WOOD, HARDWARE AND FASTENERS.
 - THE SUBCONTRACTOR SHALL FURNISH MATERIAL CERTIFICATES FOR ALL P PRESERVATIVE TREATED WOOD TYPES, SPECIFYING THE NAME OF THE TREATING PRESERVATIVE USED, THE LEVEL OF TREATMENT (0,10,0.25, 0.40, ETC) THE USE (ABOVE GROUND, GROUND CONTACT, ETC.) AND A REFERENCE TO THE AWP A STANDARD.
 - THE SUBCONTRACTOR SHALL FURNISH MATERIAL DATA SHEETS FOR HARDWARE ACCEPTED FOR USE WITH PRESERVATIVE-TREATED WOOD.
- LAG BOLTS AND SCREWS SHALL BE PRE-DRILLED TO SHANK DIAMETER AND FULL DEPTH AND SCREWED, NOT DRIVEN INTO PLACE.
- CUT WASHERS SHALL BE PLACED UNDER HEADS AND NUTS OF ALL BOLTS AND UNDER HEADS OF LAG BOLTS. ONE CUT WASHER SHALL BE USED FOR BOLTS CONNECTING WOOD LEDGERS TO CONCRETE OR MASONRY WALLS.
- USE LUMBER, PLYWOOD AND NAILING SPECIFICATIONS ON STRUCTURAL DRAWINGS. PROVIDE AND INSTALL ALL WOOD FRAMINGS AS INDICATED ON THE DRAWINGS.
- METAL CONNECTORS AND FRAMING DEVICES SHOWN ON DRAWINGS OTHER THAN CUSTOM FABRICATED ITEMS SHALL BE "STRONG-TIE" CONNECTORS BY SIMPSON COMPANY.

THERMAL AND MOISTURE PROTECTION

- CAULK AROUND ALL WINDOWS (HEAD AND JAMB), DOORS, VENT, OPENINGS, WHERE DIFFERENT MATERIALS MEET, ROOF OPENINGS, EAVES, SOFFITS, JOINTS, COUNTERTOPS, DOOR FRAMES, ETC. AS REQUIRED FOR WATERIGHT AND AIRTIGHT CONNECTION. PROVIDE CAULK PER MANUFACTURERS RECOMMENDATIONS. CAULK TO BE TREMCO DYMERIC 240 FC FOR FOOD PROCESSING FACILITIES OR FOOD PREP/FOOD STORAGE AREAS. CAULK TO BE INSTALLED AFTER FINISH IS APPLIED TO SURFACES PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE NON-SAG SEALANT COMPLYING WITH REQUIREMENTS OF FEDERAL SPECIFICATIONS ITS-1543 OR ITS-2281 TYPE "T" CLASS "A". PROVIDE ACOUSTICAL SEALANT WHICH SHALL BE NON-HARDENING, NONDRYING SYNTHETIC RUBBER SEALING COMPOUND WITH MINIMUM 90% SOLIDS. USE AT ALL INTERIOR JOINTS AT INTERSECTIONS BETWEEN PLANES. AROUND DOOR AND WINDOW FRAMES PRIMER SHALL BE MADE OR RECOMMENDED B SEALANT MANUFACTURER FOR THE SPECIFIC CONDITIONS AND SUBSTRATES. USE LOWEST VOC SEALANTS AND CAULKING AVAILABLE WHICH MEET OR EXCEED THE CODE AND MANUFACTURERS REQUIREMENTS. PROVIDE BACKING MATERIAL BY DOW THERMOFOAM OR APPROVED EQUAL. APPLY SEALANT OVER BACKING TO UNIFORM THICKNESS IN CONTINUOUS BEADS FILLING ALL JOINTS AND VOIDS. SOLID. SUPERFICIAL POINTING WITH SKIM BEAD WILL NOT BE ACCEPTED.
- ALL SURFACES SHALL BE ADEQUATELY CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS PRIOR TO INSTALLATION. USE LOWEST VOC CLEANING AGENTS AVAILABLE THAT MEET OR EXCEED THE MANUFACTURERS REQUIREMENTS.
- ISOLATION AND CONTROL JOINT MATERIAL TO BE POLYETHYLENE FOAM EXPANSION ISOLATION JOINT FILLER OF 1/2" THICKNESS UNLESS OTHERWISE INDICATED. THE MINIMUM DEPTH OF ISOLATION JOINT MATERIAL TO BE EQUAL TO THE SMALL OF THE CONCRETE SLAB THICKNESS WITH WHICH IT COMES IN CONTACT.
- WIND RESISTANCE OF EDGE FLASHING SHALL MEET OR EXCEED THE MINIMUM STANDARDS PER THE CODE AND SATISFY THE ANSI AND SPRI REFERENCED STANDARDS INCLUDING TESTING.
- REFER TO ROOF PLAN FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS FOR ROOFING MATERIALS AS THEY PERTAIN TO THERMAL AND MOISTURE PROTECTION.

METALS: STRUCTURAL STEEL

- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF STEEL CONSTRUCTION.
- ALL WELDERS TO BE CERTIFIED. ALL DOUBLING TO CONFORM TO AWS D1.1 LATEST EDITION USING E70-X ELECTRODES.
- BOLTED CONNECTIONS TO BE DOUBLE ANGLE WITH 3/4" DIAMETER ASTM A-325 BOLTS UNDER TENSILE LOADS. PROVIDE 3/4" DIAMETER A-325 BOLTS FOR SINGLE SHEAR. WING PLATE CONNECTIONS. PROVIDE MAXIMUM NUMBER OF BOLTS IN A SINGLE LINE WITH 3" GAGE. PROVIDE WASHERS FOR ALL ANCHOR BOLTS (ASTM A-307).
- PROVIDE AND MAINTAIN TEMPORARY BRACING OF STEEL UNTIL SECURELY INCORPORATED INTO CONSTRUCTION SUCH AS SHEAR WALLS, X-BRACING, ETC.
- STEEL COLUMNS BUILT IN MASONRY SHALL HAVE ADJUSTABLE MASONRY WALL ANCHORS AT 2'-0" ON CENTER VERTICALLY EACH SIDE, LOCATED IN COURSING.
- WIDE FLANGE BEAMS 12" OR DEEPER SHALL HAVE 1/4" STIFFENER PLATE EACH SIDE AT ALL POINTS OF SUPPORT INCLUDING BEARING ENDS ON CONCRETE OR MASONRY, PROVIDE 5/8" BEARING PLATES WITH (2) 3/4" ANCHOR BOLTS 12" LONG WITH 3" HOOKS.
- UNLESS NOTED OTHERWISE, FRAMES AROUND ALL ROOF DECK OPENINGS LARGER THAN 12" IN DIAMETER, INCLUDING ROOF DRAINS/SUMPS, WITH 4.13 x 3" x 1/4" DOWN TURNED.
- ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.
- STAIRS, HANDRAILS, AND GUARDRAILS SHALL BE DESIGNED BY THE STEEL SUPPLIER.
- SUBCONTRACTOR SHALL SUBMIT FIVE SETS OF STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE SUBMITTED TO BRIOHN DESIGN GROUP A MINIMUM OF SEVEN WORKING DAYS PRIOR TO FABRICATION DATE NEEDED FOR PROJECT SCHEDULING.
- ROOF SLOPE TO BE 1/4" PER FOOT UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS. ROOF SLOPE IS GENERALLY TO BE ACHIEVED BY SLOPING THE STRUCTURE UNLESS THICKENED OR TAPERED INSULATION IS NOTED ON THE ROOF PLAN. ROOF SLOPE MAY BE 1/8" PER FOOT IF PONDING ANALYSIS IS PERFORMED PROVING STABILITY OF THE ROOF STRUCTURE AGAINST PROGRESSIVE DEFLECTIONS. SEE ASCE 7-05 SECTIONS 7.11 & 8.4. IF DIFFERENCE IN HEIGHT BETWEEN ROOF DRAINS AND HIGH POINT IN ROOF IS GREATER THAN 6", PLUMBING CONTRACTOR TO PROVIDE OVEFLOW DRAINS @ EACH DRAINAGE FIELD ON THE ROOF.

METALS: DECK

- DECK ACCESSORIES, AND ATTACHMENTS SHALL CONFORM WITH THE CURRENT EDITION OF STEEL DECK INSTITUTE SPECIFICATIONS.
- PROVIDE SUPPORT AT COLUMNS AS REQUIRED FOR DECK SUPPORT. PROVIDE L2" x 2" X 3/16" MINIMUM.
- AT OPENINGS IN DECK LESS THAN 12" x 12", PROVIDE A 1/6 GAUGE COVER PLATE FASTENED TO DECK WITH #12 TEK SCREWS.
- AT CHANGE IN DECK DIRECTION, PROVIDE A 22 GAUGE X 12" CONTINUOUS PLATE. PROVIDE SAME PLATE AT ALL RIDGES, VALLEYS AND HIPS BENT TO MATCH PROFILE OF ROOF.

METALS: STEEL JOISTS & JOIST GIRDERS

- DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE CURRENT EDITION OF STEEL JOIST INSTITUTE SPECIFICATIONS.
- JOIST MANUFACTURER SHALL BE A MEMBER OF THE SJI (STEEL JOIST INSTITUTE).
- SUBCONTRACTOR SHALL SUBMIT FIVE SETS OF STEEL JOIST SHOP DRAWINGS TO BRIOHN DESIGN GROUP FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE SUBMITTED TO BRIOHN DESIGN GROUP A MINIMUM OF SEVEN WORKING DAYS PRIOR TO FABRICATION DATE NEEDED FOR PROJECT SCHEDULING.
- PROVIDE SJI STANDARD BRIDGINS AS SHOWN ON THE CONSTRUCTION DOCUMENTS OR AS REQUIRED BY DESIGN.
- DO NOT DRILL OR CUT THROUGH ANY JOIST OR GIRDER.
- ALL CONCENTRATED LOADS SHALL BE APPLIED AT A JOIST PANEL POINT UNLESS SPECIFICALLY NOTED OTHERWISE.
- JOIST MANUFACTURER SHALL DESIGN JOISTS FOR ROOF TOP UNIT LOADS AND SUSPENDED UNIT OR BULKHEAD LOADS SHOWN ON CONSTRUCTION DOCUMENTS. COORDINATE EXACT LOCATION OF APPLIED LOAD WITH APPROPRIATE SUB-CONTRACTOR.
- DESIGN JOIST, JOIST GIRDERS AND BRIDGING TO RESIST A NET UPLIFT LOAD OF 5 PSF UNLESS OTHERWISE NOTED.
- PROVIDE CAMBER IN JOIST AS RECOMMENDED BY SJI SPECIFICATIONS UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS.
- JOIST SUPPLIER SHALL COORDINATE HIS WORK WITH THE STEEL SUPPLIER ON THE PROJECT.
- DESIGN JOISTS AND JOIST GIRDERS FOR L/240 LIVE LOAD DEFLECTION UNLESS NOTED OTHERWISE.

METALS: COLD-FORMED STEEL FRAMING

- DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE AISI DESIGN MANUAL AS AMENDED TO DATE. ALL FRAMING MEMBERS SHOWN ON PLANS ARE SCHEMATIC AND ARE SHOWN FOR INTENT ONLY. (ASSUMES THAT THE DESIGN AND CALCULATIONS ARE DONE BY THE SUPPLIER)
 - ALL LIGHT GAUGE FRAMING DESIGN & CALCULATIONS TO BE DONE BY SUPPLIER. THIS INCLUDES BEAMS, HEADERS, STUDS, COLUMNS, ETC. INCLUDING ALL CONNECTIONS TO MASONRY, CONCRETE, STEEL & OTHER LIGHT GAUGE MEMBERS.
 - STEEL STUD CURTAIN WALL AND CONNECTIONS TO BE DESIGNED BY SUPPLIER. (STEEL STUD CURTAIN WALL AND CONNECTION DESIGN SHALL BE SEALED BY PROFESSIONAL STRUCTURAL ENGINEER EXPERIENCED IN THIS WORK).
- | COMPONENTS & CLADDING | |
|-----------------------|----------------------|
| UPLIFT..... | PER ASCE 7 (FM 1-28) |
| | 90 MPH |
| | 1.15 |
| GCR..... | 0.55 |
- LIVE LOADS:

GROUND SNOW LOAD.....	30 PSF
IMPORTANCE FACTOR.....	1.0
FLAT ROOF SNOW LOAD.....	27 PSF
FACTOR C1.....	1.1
FACTOR C6.....	1.1

L/60 FOR BRICK VENEER

L/360 FOR WALL STUDS W/ATTACHED DRYWALL

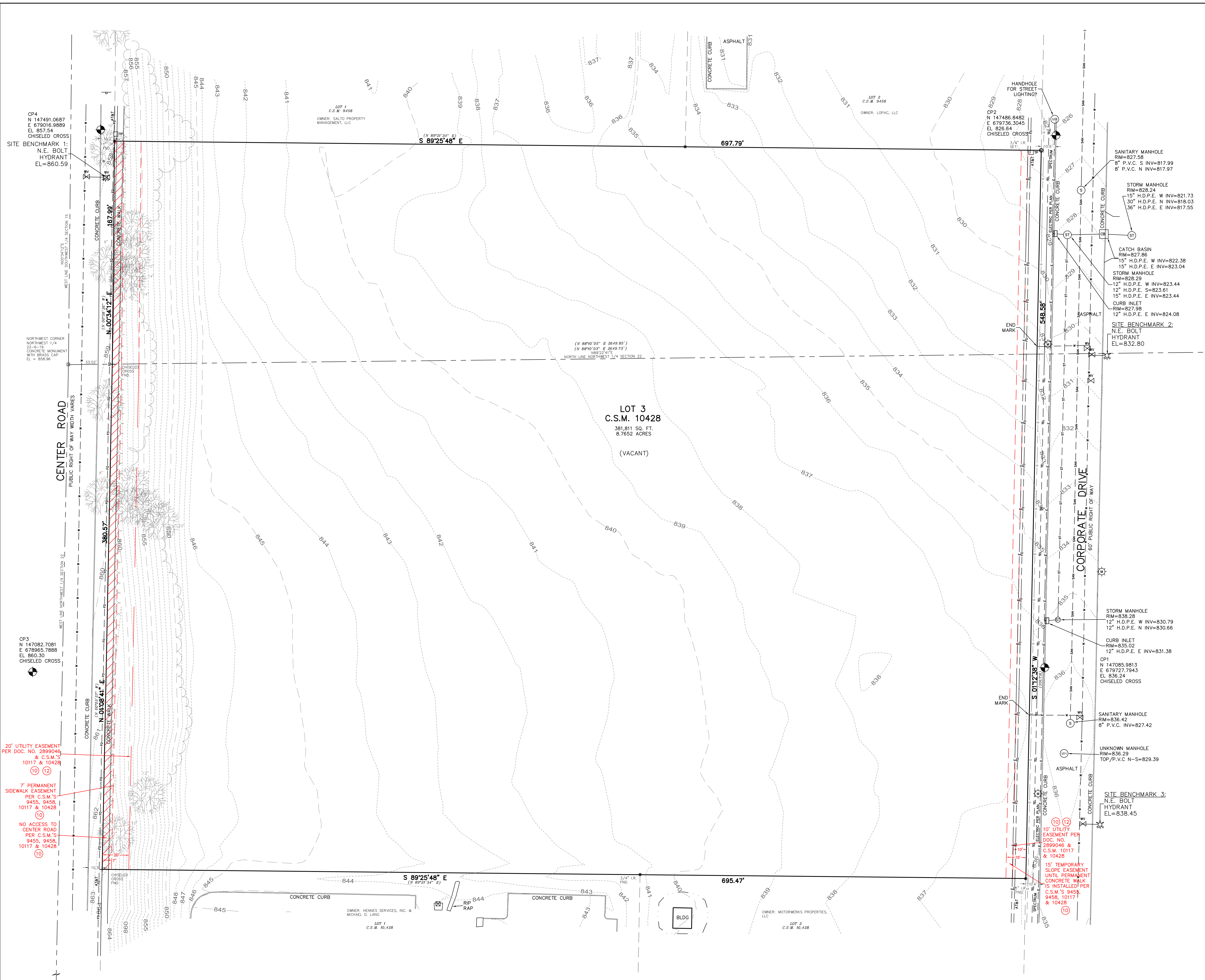
- MINIMUM DESIGN THICKNESS OF STUDS AND TRACK AT EXTERIOR OF BUILDING VERTICALLY SUPPORTING MASONRY SHALL BE 0.045 INCHES (GAGE: 18).
- MINIMUM DESIGN THICKNESS OF STUDS AND TRACK AT EXTERIOR OF BUILDING VERTICALLY NOT SUPPORTING MASONRY SHALL BE 0.045 INCHES (GAGE: 18).
- LOAD BEARING STUDS VERTICALLY SUPPORTING MASONRY SHALL BE DESIGNED TO CARRY ALL GRAVITY LOADS AND LATERAL FORCES INCLUDING BUT NOT LIMITED TO DEAD LOADS, LIVE LOADS, WIND LOADS, AND AXIAL LOAD ECCENTRICITIES.
- LOAD BEARING STUDS NOT VERTICALLY SUPPORTING MASONRY SHALL BE DESIGNED TO CARRY ALL GRAVITY LOADS AND LATERAL FORCES INCLUDING BUT NOT LIMITED TO DEAD LOADS, LIVE LOADS, WIND LOADS, AND AXIAL LOAD ECCENTRICITIES.
- NON-LOAD BEARING STUDS NOT VERTICALLY SUPPORTING MASONRY SHALL TRANSFER LATERAL LOADS TO STRUCTURE BY MEANS OF SLIDE CLIPS TO ALLOW FOR VERTICAL MOVEMENT OF PRIMARY STRUCTURAL MEMBERS.
- SPICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
- STUDS, TRACK AND ACCESSORIES SHALL BE GALVANIZED WITH A MINIMUM G-90 COATING PER ASTM A-525.
- STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO FLANGES OR WEBS OF LOWER TRACK. STUDS SHALL BE SEATED TIGHT TO TRACK EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR NON-PLUMB WALLS OR WARPED SURFACES AND SIMILAR REQUIREMENTS.
- JOINTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE WALL.
- REFER TO ARCHITECTURAL WALL SECTIONS AND DETAILS FOR ADDITIONAL INFO.
- ALL MEMBERS 0.066 INCH MINIMUM THICKNESS OR THICKER (1/4 GAGE OR LOWER) SHALL BE OF MINIMUM THICKNESS OR THICKER (1/6 GAGE OR LOWER) SHALL BE OF MINIMUM 50 KSI STEEL. ALL MEMBERS OF 0.0451 INCH MINIMUM THICKNESS OR THICKER (1/8 GAGE OR HIGHER) AND ALL ACCESSORIES SHALL BE OF MINIMUM 33 KSI STEEL.
- STEEL STUD ERECTOR SHALL CONSTRUCT ALL LIGHT GAUGE FRAMING IN A MANNER WHICH PROTECTS LATERAL STABILITY OF THE STRUCTURE.
- ALL WELDS PERFORMED ON GALVANIZED LIGHT GAUGE COMPONENTS SHALL BE COATED WITH ZINC RICH PAINT FOR CORROSION PROTECTION IN ACCORDANCE WITH ASTM A780. CONTRACTOR SHALL NOTIFY THE ENGINEER TO ALLOW ADEQUATE TIME FOR PROTECTION.
- STEEL STUD WALLS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE REQUIRED CAPACITIES TO CARRY CONSTRUCTION LOADS. CONTRACTOR SHALL PROVIDE NECESSARY BRIDGING OR ATTACHMENT TO WALL SHEATHING BEFORE STRUCTURAL COMPONENTS ARE LOADED.
- INSTALL SUPPLEMENTARY FRAMING, BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHENEVER WALLS OR PARTITIONS ARE INDICATED TO SUPPORT PARTITIONS, EQUIPMENT, SERVICES, CASEWORK, HEAVY TRIM AND FURNISHING AND SIMILAR WORK.

TILT UP CONCRETE

- TILT UP DESIGN SHALL CONFORM TO TCI AND ACI STANDARDS. GOVERNING SPECIFICATION FOR TILT UP CONCRETE SHALL BE IN ACCORDANCE WITH THE TILT-UP CONCRETE ASSOCIATIONS GUIDELINE SPECIFICATIONS. DESIGN LOADS SHALL CONFORM TO DESIGN LOADS INDICATED IN "DESIGN LOADS" SECTION OF THE PLAN AND APPLICABLE CODES. DESIGN AND CONSTRUCT TILT-UP WALL PANELS TO WITHSTAND CONSTRUCTION LOADS WHICH MAY OCCUR DURING LIFTING, BRACING, AND IMPACT OF ADJOINING PANELS. PERMANENT LOADS SHALL CONFORM TO CODE REQUIREMENTS.
- PROVIDE AND MAINTAIN TEMPORARY BRACING OF STEEL UNTIL SECURELY INCORPORATED INTO CONSTRUCTION SUCH AS SHEAR WALLS, X-BRACING, ETC.
- STEEL COLUMNS BUILT IN MASONRY SHALL HAVE ADJUSTABLE MASONRY WALL ANCHORS AT 2'-0" ON CENTER VERTICALLY EACH SIDE, LOCATED IN COURSING.
- WIDE FLANGE BEAMS 12" OR DEEPER SHALL HAVE 1/4" STIFFENER PLATE EACH SIDE AT ALL POINTS OF SUPPORT INCLUDING BEARING ENDS ON CONCRETE OR MASONRY, PROVIDE 5/8" BEARING PLATES WITH (2) 3/4" ANCHOR BOLTS 12" LONG WITH 3" HOOKS.
- UNLESS NOTED OTHERWISE, FRAMES AROUND ALL ROOF DECK OPENINGS LARGER THAN 12" IN DIAMETER, INCLUDING ROOF DRAINS/SUMPS, WITH 4.13 x 3" x 1/4" DOWN TURNED.
- ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.
- STAIRS, HANDRAILS, AND GUARDRAILS SHALL BE DESIGNED BY THE STEEL SUPPLIER.
- SUBCONTRACTOR SHALL SUBMIT FIVE SETS OF STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE SUBMITTED TO BRIOHN DESIGN GROUP A MINIMUM OF SEVEN WORKING DAYS PRIOR TO FABRICATION DATE NEEDED FOR PROJECT SCHEDULING.
- ROOF SLOPE TO BE 1/4" PER FOOT UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS. ROOF SLOPE IS GENERALLY TO BE ACHIEVED BY SLOPING THE STRUCTURE UNLESS THICKENED OR TAPERED INSULATION IS NOTED ON THE ROOF PLAN. ROOF SLOPE MAY BE 1/8" PER FOOT IF PONDING ANALYSIS IS PERFORMED PROVING STABILITY OF THE ROOF STRUCTURE AGAINST PROGRESSIVE DEFLECTIONS. SEE ASCE 7-05 SECTIONS 7.11 & 8.4. IF DIFFERENCE IN HEIGHT BETWEEN ROOF DRAINS AND HIGH POINT IN ROOF IS GREATER THAN 6", PLUMBING CONTRACTOR TO PROVIDE OVEFLOW DRAINS @ EACH DRAINAGE FIELD ON THE ROOF.
- DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE CURRENT EDITION OF STEEL JOIST INSTITUTE SPECIFICATIONS.
- JOIST MANUFACTURER SHALL BE A MEMBER OF THE SJI (STEEL JOIST INSTITUTE).
- SUBCONTRACTOR SHALL SUBMIT FIVE SETS OF STEEL JOIST SHOP DRAWINGS TO BRIOHN DESIGN GROUP FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE SUBMITTED TO BRIOHN DESIGN GROUP A MINIMUM OF SEVEN WORKING DAYS PRIOR TO FABRICATION DATE NEEDED FOR PROJECT SCHEDULING.
- PROVIDE SJI STANDARD BRIDGINS AS SHOWN ON THE CONSTRUCTION DOCUMENTS OR AS REQUIRED BY DESIGN.
- DO NOT DRILL OR CUT THROUGH ANY JOIST OR GIRDER.
- ALL CONCENTRATED LOADS SHALL BE APPLIED AT A JOIST PANEL POINT UNLESS SPECIFICALLY NOTED OTHERWISE.
- JOIST MANUFACTURER SHALL DESIGN JOISTS FOR ROOF TOP UNIT LOADS AND SUSPENDED UNIT OR BULKHEAD LOADS SHOWN ON CONSTRUCTION DOCUMENTS. COORDINATE EXACT LOCATION OF APPLIED LOAD WITH APPROPRIATE SUB-CONTRACTOR.
- DESIGN JOIST, JOIST GIRDERS AND BRIDGING TO RESIST A NET UPLIFT LOAD OF 5 PSF UNLESS OTHERWISE NOTED.
- PROVIDE CAMBER IN JOIST AS RECOMMENDED BY SJI SPECIFICATIONS UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS.
- JOIST SUPPLIER SHALL COORDINATE HIS WORK WITH THE STEEL SUPPLIER ON THE PROJECT.
- DESIGN JOISTS AND JOIST GIRDERS FOR L/240 LIVE LOAD DEFLECTION UNLESS NOTED OTHERWISE.

METALS

- PROVIDE MISCELLANEOUS METAL ITEMS INCLUDING MATERIALS, FABRICATIONS, FASTENINGS AND ACCESSORIES REQUIRED FOR FINISHED INSTALLATION AS INDICATED AND SPECIFIED.
- WHERE METAL ITEMS ARE TO BE ERECTED AND IN CONTACT WITH DISMILAR MATERIALS. PROVIDE CONTACT SURFACES WITH COATING OF AN IMPROVED ZINC CHROMATE PRIMER IN A MANNER TO OBTAIN NOT LESS THAN 1.0 MIL DRY FILM THICKNESS.
- ALUMINIUM EXTRUSIONS SHALL CONFORM TO ASTM B221. PROVIDE A CLEAR ANODIZED FINISH UNLESS OTHERWISE NOTED.
- FASTENERS SHALL BE AS REQUIRED FOR PROPER ASSEMBLY AND INSTALLATION OF FABRICATED ITEMS.
- MISCELLANEOUS MATERIALS: PROVIDE INCIDENTAL ACCESSORY MATERIALS, TOOLS, METHODS AND METHODS AND EQUIPMENT REQUIRED FOR FABRICATION AND INSTALLATION OF MISCELLANEOUS MATERIAL ITEMS AS INDICATED ON DRAWINGS.
- VERIFY DIMENSIONS PRIOR TO FABRICATION OR CASTING. FORM METAL ITEMS TO ACCURATE SIZES AND CONFIGURATIONS AS INDICATED ON DRAWINGS AND OTHERWISE REQUIRED FOR PROPER INSTALLATION.
- FABRICATE WITH ALL LINES STRAIGHT AND ANGLES SHARP. CLEAN AND TRUE. DRILL, COUNTERSINK, TAP AND OTHERWISE PREPARE ITEMS FOR CONNECTION WITH WORK OF OTHER TRADES MAKE PERMANENT CONNECTIONS BY WELDING AND GRIND ALL EXPOSED WELDS SMOOTH TO MATCH ADJACENT SURFACES. ROUGH JOINT SURFACES NOT PERMITTED. AVOID USING BOLTS AND SCREWS UNLESS SPECIFICALLY INDICATED OR APPROVED. WHEN USED, DRAW UP TIGHT AND THE THREADS TO PREVENT LOOSENING.
- ALL FERROUS METAL ITEMS SHALL BE SHOP FINISHED. TOUCH UP OR REPAIR DAMAGED AREAS PRIOR TO INSTALLATION WITH SAME MATERIAL.
- PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL STUD FRAMED PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORT AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.
- REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS.



- LEGAL DESCRIPTION**
- LOT THREE (3) OF CERTIFIED SURVEY MAP NO. 10428 RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY, WISCONSIN ON AUGUST 7, 2007, IN VOLUME 99 OF CERTIFIED SURVEY MAPS, PAGE 162 AS DOCUMENT NO. 3503038, SAID CERTIFIED SURVEY MAP BEING A REDIVISION OF LOT 1 OF CERTIFIED SURVEY MAP NO. 10117, AND LOCATED IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 22, TOWNSHIP 6 NORTH, RANGE 19 EAST, IN THE CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN.
- SCHEDULE B, PART II-EXCEPTION**
- 10. EASEMENTS, DEDICATIONS, RESERVATIONS, PROVISIONS, RELINQUISHMENTS, RESTRICTIONS, CERTIFICATES, AND ANY OTHER MATTERS AS PROVIDED FOR OR DELINEATED ON CERTIFIED SURVEY MAP NO. 10428, RECORDED AUGUST 07, 2007 IN VOLUME 99, PAGES 162-165 AS DOCUMENT NO. 3503038, CERTIFIED SURVEY MAP NO. 10117, RECORDED NOVEMBER 23, 2005 IN VOLUME 95, PAGES 120-123 AS DOCUMENT NO. 3340414, CERTIFIED SURVEY MAP NO. 9455, RECORDED NOVEMBER 14, 2002 IN VOLUME 86, PAGES 188-190 AS DOCUMENT NO. 2878938 AND CERTIFIED SURVEY MAP NO. 9455, RECORDED NOVEMBER 14, 2002 IN VOLUME 86, PAGES 165-176 AS DOCUMENT NO. 2878939 REFERENCED IN THE LEGAL DESCRIPTION CONTAINED HEREIN. REFERENCE IS HEREBY MADE TO SAID PLAT FOR PARTICULARS. AFFECTS PROPERTY AS PLOTTED HEREON.
 - 12. UTILITY EASEMENT TO WISCONSIN ELECTRIC POWER COMPANY, A WISCONSIN CORPORATION DOING BUSINESS AS WE ENERGIES, AND WISCONSIN BELL, INC., D/B/A SBC AMERITECH WISCONSIN, A WISCONSIN CORPORATION, DATED DECEMBER 18, 2002, RECORDED/FILED DECEMBER 23, 2002 AS DOCUMENT NO. 2899046. AFFECTS PROPERTY AS PLOTTED HEREON.
 - 13. GRANT OF EASEMENTS TO WISCONSIN POWER AND LIGHT COMPANY D/B/A WE ENERGIES AND WISCONSIN BELL D/B/A SBC AMERITECH WISCONSIN AND THE CITY OF WAUKESHA, WISCONSIN, DATED NOVEMBER 21, 2005, RECORDED/FILED NOVEMBER 23, 2005 AS DOCUMENT NO. 3340415. DOES NOT AFFECT PROPERTY - NOTHING PLOTTED.

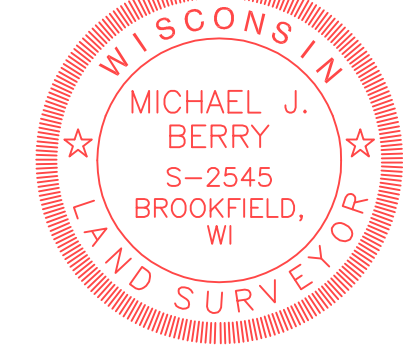
- MISCELLANEOUS NOTES**
1. THIS SURVEY WAS MADE IN ACCORDANCE WITH LAWS AND/OR MINIMUM STANDARDS OF THE STATE OF WISCONSIN.
 2. THE PROPERTY DESCRIBED HEREON (THE "PROPERTY") IS THE SAME AS THE PROPERTY DESCRIBED IN FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-1210265-ME, WITH A COMMITMENT DATE OF FEBRUARY 21, 2024 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.
 3. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, ON INFORMATION FURNISHED BY THE UTILITY COMPANIES, DIGGERS HOTLINE AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
 4. NO ZONING INFORMATION PROVIDED BY INSURER AT THE TIME OF SURVEY.
 5. THE ABOVE DESCRIBED PROPERTY AS SHOWN HEREON CONTAINS: 381,811 SQUARE FEET OR 8.7652 ACRES.
 6. THE TOTAL NUMBER OF STRIPED PARKING SPACES ON THE PROPERTY IS 0.
 7. SUBJECT PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION 'X'. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER INFORMATION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 5513C0326H, WITH A DATE OF IDENTIFICATION OF OCTOBER 19, 2023, IN COMMUNITY NO. 550491, THE CITY OF WAUKESHA, WHICH IS THE COMMUNITY IN WHICH THE SUBJECT PROPERTY IS SITUATED.
 8. THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS ON THE PROPERTY AT TIME OF SURVEY.
 9. THERE IS NO INFORMATION AVAILABLE FROM THE CITY OF WAUKESHA REGARDING PROPOSED CHANGES IN STREET RIGHT OF WAY LINES ADJOINING THE PROPERTY AT THE TIME OF SURVEY.
 10. THERE ARE NO PLOTTABLE OFFSITE EASEMENTS KNOWN TO THE SURVEYOR.
 11. ALL BEARINGS REFER TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983/2011 (NAD83).
 12. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (12)(NAD88).
 13. PROJECT BENCHMARKS: THE CONCRETE MONUMENT WITH BRASS CAP MARKING THE NORTHWEST CORNER OF SECTION 22, ELEVATION = 858.96. THE REFERENCE BENCHMARK FOR THE WEST 1/4 CORNER AS SHOWN HEREON, ELEVATION = 857.24.
 14. SITE BENCHMARKS AND SITE CONTROL AS SHOWN HEREON.

TO: BRIGHN LAND DEVELOPMENT, LLC, A WISCONSIN LIMITED LIABILITY COMPANY, M/G/WAUKESHA LLC, A WISCONSIN LIMITED LIABILITY COMPANY, FIRST AMERICAN TITLE INSURANCE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a)(i), 6(a)(ii), 8, 9, 11(a)(i), 13, 16, 17, 18, 20 AND 21 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JANUARY 7, 2025.

JANUARY 8, 2025
 DATE
 REVISED: 1/20/25
 REVISED: 2/18/25

Michael J. Berry
 MICHAEL J. BERRY, P.L.S.
 REGISTERED LAND SURVEYOR S-2545



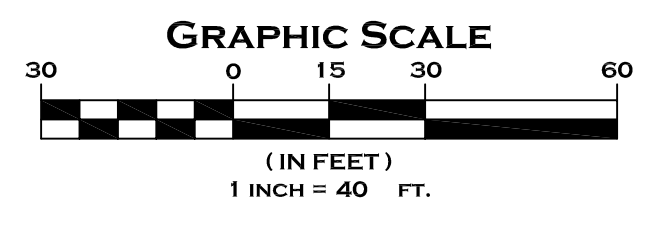
ALTA/NSPS LAND TITLE SURVEY
 FOR

CORPORATE DRIVE
WAUKESHA, WI

DRAWN BY:	DHS	DATE:	JAN. 8, 2025
CHECKED BY:	MJB	DRAWING NO.:	AL - 0
CSE JOB NO.:	24-148	SHEET	1 OF 1

LEGEND

— SAN	SANITARY SEWER	⊠	ELECTRIC TRANSFORMER	⊗	HYDRANT
— ST	STORM SEWER	⊠	ELECTRIC METER	⊗	WATER VALVE
— W	WATER MAIN	⊠	ELECTRIC PEDISTAL	⊗	GAS VALVE
— G	BURIED GAS LINE	⊠	ELECTRIC BOX AT GRADE	⊗	MANHOLE
— TEL	BURIED TELEPHONE LINE	⊠	TELEPHONE BOX AT GRADE	⊗	STORM MANHOLE
— E	BURIED ELECTRIC LINE	⊠	TELEPHONE PEDISTAL	⊗	CATCH BASIN
— TV	BURIED TV CABLE	⊠	TV PEDISTAL	⊗	CURB INLET
— U	OVERHEAD UTILITY LINES	⊠	GAS METER	⊗	UTILITY POLE
— CATV	BURIED CABLE TELEVISION LINES	⊠	AIR CONDENSER	⊗	WOOD SINK
— COMB	COMBINATION SEWER	⊠	WOOD SINK	⊗	METAL LIGHT POLE
— WOOD FENCE	WOOD FENCE	⊠	FLAG POLE	⊗	CONCRETE LIGHT POLE
— METAL FENCE	METAL FENCE	⊠	WOOD LIGHT POLE	⊗	WOOD LIGHT POLE
— BOLLARD	BOLLARD	⊠	MAIL BOX	⊗	FIBER OPTIC MARKER
— 994.32 DS	DOOR SILL ELEVATION	⊠	FIBER OPTIC MARKER	⊗	UTILITY WIRE
—	FIRE DEPARTMENT CONNECTION	⊠	YARD LIGHT	⊗	



KEYNOTE LEGEND ELEVATIONS	
MARK	ELEVATION CODED NOTES
03-1	EXTERIOR PRE-CAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED FINISH - LIGHT (SW 7036 ACCESSIBLE BEIGE)
03-2	EXTERIOR PRE-CAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED FINISH - MEDIUM (SW 7038 TONY TAPE)
03-3	EXTERIOR PRE-CAST CONCRETE WALL PANEL SHALL BE INSULATED WITH PAINTED FINISH - DARK (SW 7046 ANONYMOUS)
03-10	2" X 1/2" DEEP REVEAL (HORIZONTAL)
03-12	8" X 1/2" DEEP REVEAL (HORIZONTAL)
05-10	PRE-FINISHED METAL CAP/COPING ON SINGLE 2X PRESSURE TREATED WOOD BLOCKING. EXTEND RUBBER MEMBRANE FLASHING TO EXTEND UP AND OVER PT WOOD BLOCKING AND FULLY SEAL TO FACE OF PRE-CAST CONCRETE WALL PANEL.
05-16	PRE-FINISHED METAL 24 GA. FASCIA ON ENTRY CANOPY. COLOR SHALL BE DARK BRONZE
08-4	9'-0" X 10'-0" INSULATED OH DOOR FACTORY FINISHED WITH VISION WINDOWS, 35,000 LB DOCK LEVELERS, DOCK SEALS, AND BUMPERS.
08-7	PRE-FINISHED BRONZE ANODIZED ALUMINUM FRAMED (THERMALLY BROKEN) AND 1" INSULATED LOW-E TINTED WINDOW UNITS TO MATCH EXISTING. COORDINATE WITH METAL BUILDING MANUFACTURER ON POTENTIAL RE-USE OF EXISTING NORTH WALL WINDOW UNITS.
08-18	PRE-FINISHED BRONZE ANODIZED ALUMINUM FRAMED (THERMALLY BROKEN) STOREFRONT ENTRY DOOR W/1" INSULATED LOW-E TINTED GLAZING
08-21	16'-0" X 16'-0" INSULATED FACTORY PRE-FINISHED STEEL OVERHEAD DOOR AND FRAME WITH WEATHER SEAL AND VISION WINDOWS (2-PANEL)
08-22	3'-0" X 7'-0" INSULATED AND PAINTED GALVANIZED HOLLOW METAL DOOR AND FRAME WITH ADA HARDWARE AND EMERGENCY EGRESS CODE REQUIRED LIGHTING - PAINTED TO MATCH ADJACENT WALL COLOR.
08-23	14'-0" X 14'-0" INSULATED FACTORY PRE-FINISHED STEEL OVERHEAD DOOR AND FRAME WITH WEATHER SEAL AND VISION WINDOWS (1-PANEL).
21-2	KNOX BOX AS REQUIRED PER LOCAL FIRE ORDINANCES. LOCATION TO BE FINALIZED W/ FIRE MARSHAL.
21-7	FIRE DEPARTMENT CONNECTION AND ALARM AS REQUIRED BY LOCAL GOVERNING MUNICIPALITY - REFER FLOOR PLAN.
21-8	PROVIDE ALARM (HORN/STROBE).
22-23	2'-0" WIDE SCUPPER - 6" ABOVE PRIMARY DRAIN - REFER TO ARCHITECTURAL ELEVATION DRAWINGS, STRUCTURAL AND PLUMBING DRAWINGS. LOCATION OF SCUPPER DRAINS, DO NOT PLACE OUTFALL DIRECTLY ABOVE EXTERIOR DOORS OR WINDOWS. REFER TO DETAIL 8/A8.1. ALTERNATE: PROVIDE SCUPPER BOX WITH DOWNSPOUT.
26-1	EXTERIOR LIGHT FIXTURE - CUT-OFF LED WALL PACK - SEE LIGHTING PLAN FOR FIXTURE TYPE AND MOUNTING HEIGHT
32-2	CONCRETE LOADING DOCK RETAINING WALL AND RAILING. RAILING DESIGN AS ALLOWED PER IBC 1014. SEE ARCHITECTURAL AND STRUCTURAL DETAILS.
32-3	TRASH ENCLOSURE GATES. SET BASE OF GATE HEIGHT BASED ON ACTUAL FIELD CONDITIONS.
32-12	EXTERIOR PRE-CAST CONCRETE WALL PANEL AT TRASH ENCLOSURE SHALL BE SOLID CONCRETE WITH PAINTED FINISH - LIGHT (PAINT COLOR 1: SHERWIN WILLIAMS - FIELD COLOR)

ELEVATION PAINT COLOR KEY:	
	PAINT COLOR 1: SHERWIN WILLIAMS 'SW7006 EXTRA WHITE' - FIELD COLOR
	PAINT COLOR 2: SHERWIN WILLIAMS 'SW 7648 BIG CHILL' - LIGHT ACCENT
	PAINT COLOR 3: SHERWIN WILLIAMS 'SW 2850 CHELSEA GRAY' - MEDIUM ACCENT
	PAINT COLOR 4: SHERWIN WILLIAMS 'SW 7019 GAUNLET GRAY' - DARK ACCENT

PAINTERS NOTE:

PAINTING OF EXTERIOR PRECAST WALL PANELS: CHOOSE ONE SUPPLIER FOR BOTH BASE COLOR AND ACCENT COLORS. PRECAST WALL PANELS SHALL WEATHER FOR 90 DAYS PRIOR TO PAINT APPLICATION. PAINT SHALL NOT BE APPLIED WHEN SURFACE AND AIR TEMPERATURE IS UNDER 45 DEGREES FAHRENHEIT AND TEMPERATURES SHALL BE RISING.

- ACRYLIC CONCRETE STAIN (BASE COLOR):**
 - (2) COATS OF HALLMAN LINDSAY #167 GRIP CRETE ACRYLIC STAIN OR
 - (2) COATS SHERWIN WILLIAMS LOXON VERTICAL STAIN OR
 - (2) COATS BENJAMIN MOORE TUFFCRETE WB CONCRETE STAIN.
- ACCENT COLOR:**
 - (2) COATS OF HALLMAN LINDSAY #174 WEATHER GUARD SATIN 100% ACRYLIC HOUSE PAINT OR
 - (2) COATS SHERWIN WILLIAMS SUPER PAINT SATIN HOUSE PAINT OR
 - (2) COATS BENJAMIN AURA SATIN 100% ACRYLIC HOUSE PAINT.

EXTERIOR BLDG SYSTEMS:

ROOF ASSEMBLY (AMBIENT): BALLASTED 45 MIL EPDM ROOF MEMBRANE ON 4" DIRECT TO DECK APPROVED EPS INSULATION (R20 - TWO LAYERS STAGGERED) ON METAL DECK (SEE STRUCTURAL DRAWINGS)

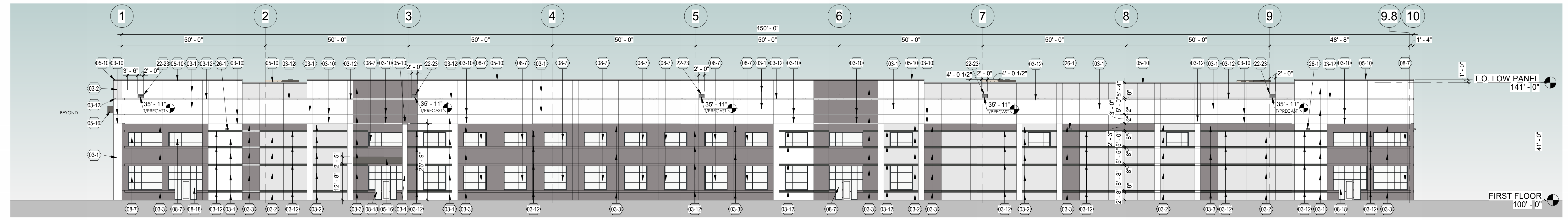
ROOF ASSEMBLY (CANOPY): FULLY ADHERED EPDM ROOF MEMBRANE ON TAPERED INSULATION TAPERED TO GUTTERS AS DETAILED.

INSULATED PRECAST WALL PANEL SYSTEM: 10" INSULATED PRECAST CONCRETE WALL PANEL (R-14)

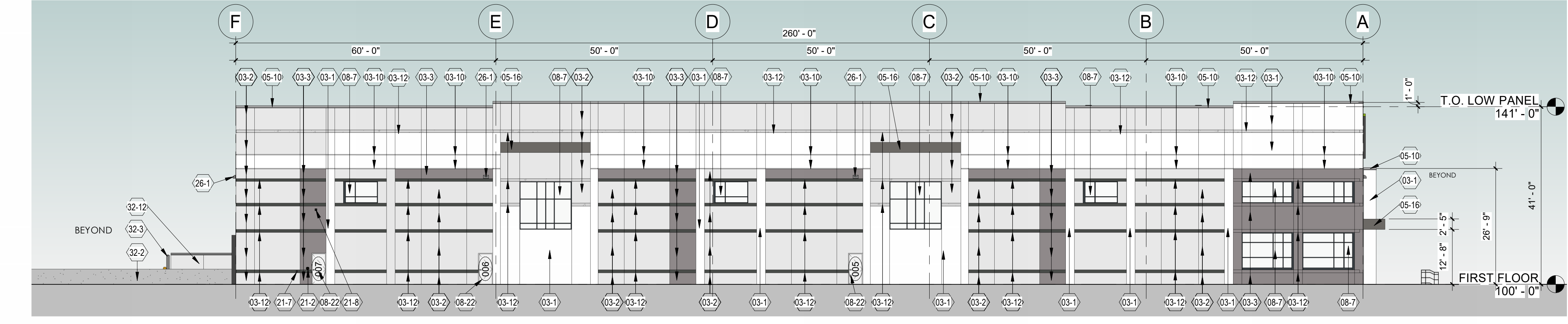
PRECASTER NOTE:

PRECASTER TO PROVIDE COVERS FOR ALL ROUND RECESSED POCKETS AND PROVIDE CLOSED CELL SPRAY FOAM INSULATION WITH STEEL PRE-FINISHED METAL COVER PLATES FOR ALL OTHER SHAPE OPENINGS OR RECESSED AREAS (BEAM, UNTEL, JOIST, GIRDER BEARING OR OTHER POCKETED CONDITIONS) ON INTERIOR SIDE OF THE PRECAST WALL PANELS

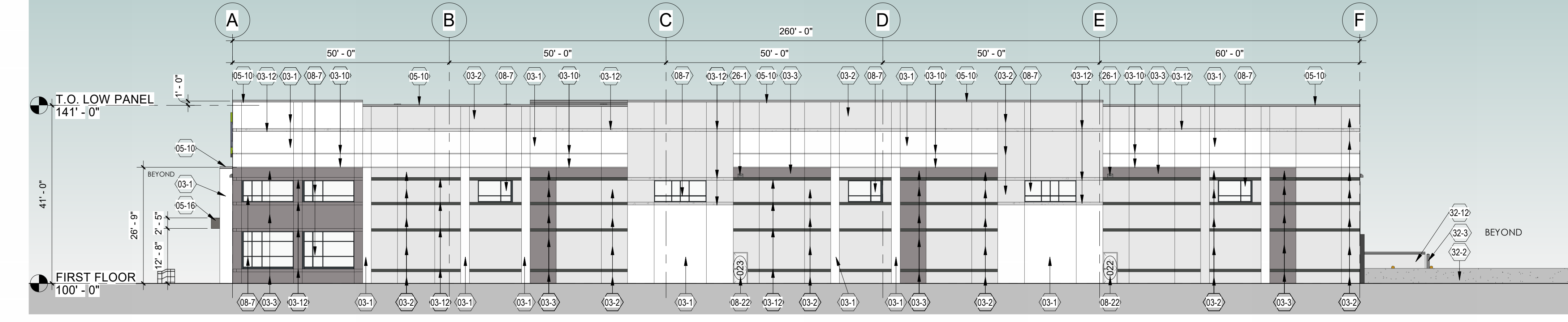
ROOF TOP EQUIPMENT TO BE POSITIONED BEHIND RAISED PARAPETS. PROVIDE SUPPLEMENTAL SCREENING FOR ROOF TOP UNITS THAT ARE NOT SCREENED BY PARAPETS. RTU EQUIPMENT REFER TO MECHANICAL PLANS.



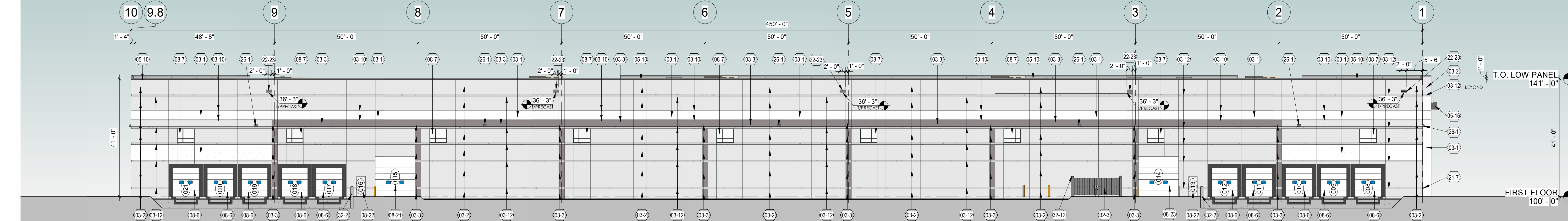
1 NORTH ELEVATION
1/16" = 1'-0"



2 EAST ELEVATION
1/16" = 1'-0"



3 WEST ELEVATION
1/16" = 1'-0"



4 SOUTH ELEVATION
1/16" = 1'-0"

THE PROPOSED COMMERCIAL NON-RESIDENTIAL BUILDING TO BE LOCATED IN CLIMATE ZONE 6 (PER IECC SECTION 502.2 (1) BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES.

ROOFS - PROPOSED ROOF INSULATION ENTIRELY ABOVE DECK R-20ci REQUIRED AND R-25ci PROVIDED MEETS OR EXCEEDS CODE MINIMUM.

WALLS ABOVE GRADE PROPOSED EXTERIOR WALL - MASS (PRECAST INSULATED CONCRETE) R-13.3ci REQUIRED AND R-16ci PROVIDED MEETS OR EXCEEDS CODE MINIMUM.

SLAB-ON-GRADE FLOORS - PROPOSED UNHEATED SLABS R-10 FOR 24 INCHES BELOW REQUIRED AND R-10 FOR 24 INCHES OR MORE PROVIDED MEETS OR EXCEEDS CODE MINIMUM.

PER TABLE 502.3 BUILDING ENVELOPE REQUIREMENTS: FENESTRATION VERTICAL FENESTRATION (40% MAXIMUM ALLOWED ABOVE GRADE) 5% ACTUAL PROVIDED REQUIRED U - FACTOR .40 ACTUAL PROVIDED .29 AND SHGC .41

PER 2015 IECC:

C402.5 AIR LEAKAGE THERMAL ENVELOPE. PROPOSED BUILDING COMPLIES.

C402.5.1 AIR BARRIER PER C402.5.1.2.1 MATERIALS SEE EXCEPTION 13 CAST-IN-PLACE AND PRECAST CONCRETE. PROPOSED BUILDING COMPLIES.

C402.5.2 AIR LEAKAGE FENESTRATION SEE EXCEPTION 1. FIELD FABRICATED FENESTRATION ASSEMBLIES THAT ARE SEALED IN ACCORDANCE WITH SECTION C402.5.1. PROPOSED BUILDING COMPLIES.

C402.5.3 ROOMS CONTAINING FUEL - BURNING APPLIANCES EXCEPTION 1. DIRECT VENT APPLIANCES WITH BOTH INTAKE AND EXHAUST PIPES INSTALLED CONTINUOUS TO OUTSIDE. PROPOSED BUILDING COMPLIES.

C402.5.4 DOORS AND ACCESS OPENINGS TO SHAFTS, CHUTES, STAIRWAYS AND ELEVATOR LOBBIES. NOT APPLICABLE TO PROPOSED BUILDING.

C402.5.5 AIR INTAKES, EXHAUST OPENINGS, STAIRWAYS AND SHAFTS. IF REQUIRED TO BE DAMPERED. PROPOSED BUILDING COMPLIES.

C402.5.6 LOADING DOCK WEATHER SEALS TO BE PROVIDED FOR LOADING DOCK DOORS. PROPOSED BUILDING COMPLIES.

C402.5.7 VESTIBULES EXCEPTION 2. DOORS NOT INTENDED TO BE USED BY THE PUBLIC, SUCH AS DOORS TO MECHANICAL OR ELECTRICAL EQUIPMENT ROOMS, ON INTENDED SOLELY FOR EMPLOYEE USE. EXCEPTION 4 DOORS THAT OPEN DIRECTLY FROM A SPACE LESS THAN 3,000 SQUARE FEET IN AREA. EXCEPTION 6 DOORS USED PRIMARILY TO FACILITATE VEHICULAR MOVEMENT OR MATERIAL HAND LINE AND ADJACENT PERSONAL DOORS. PROPOSED BUILDING COMPLIES.

C402.5.8 RECESSED LIGHTING. NOT APPLICABLE TO PROPOSED BUILDING.



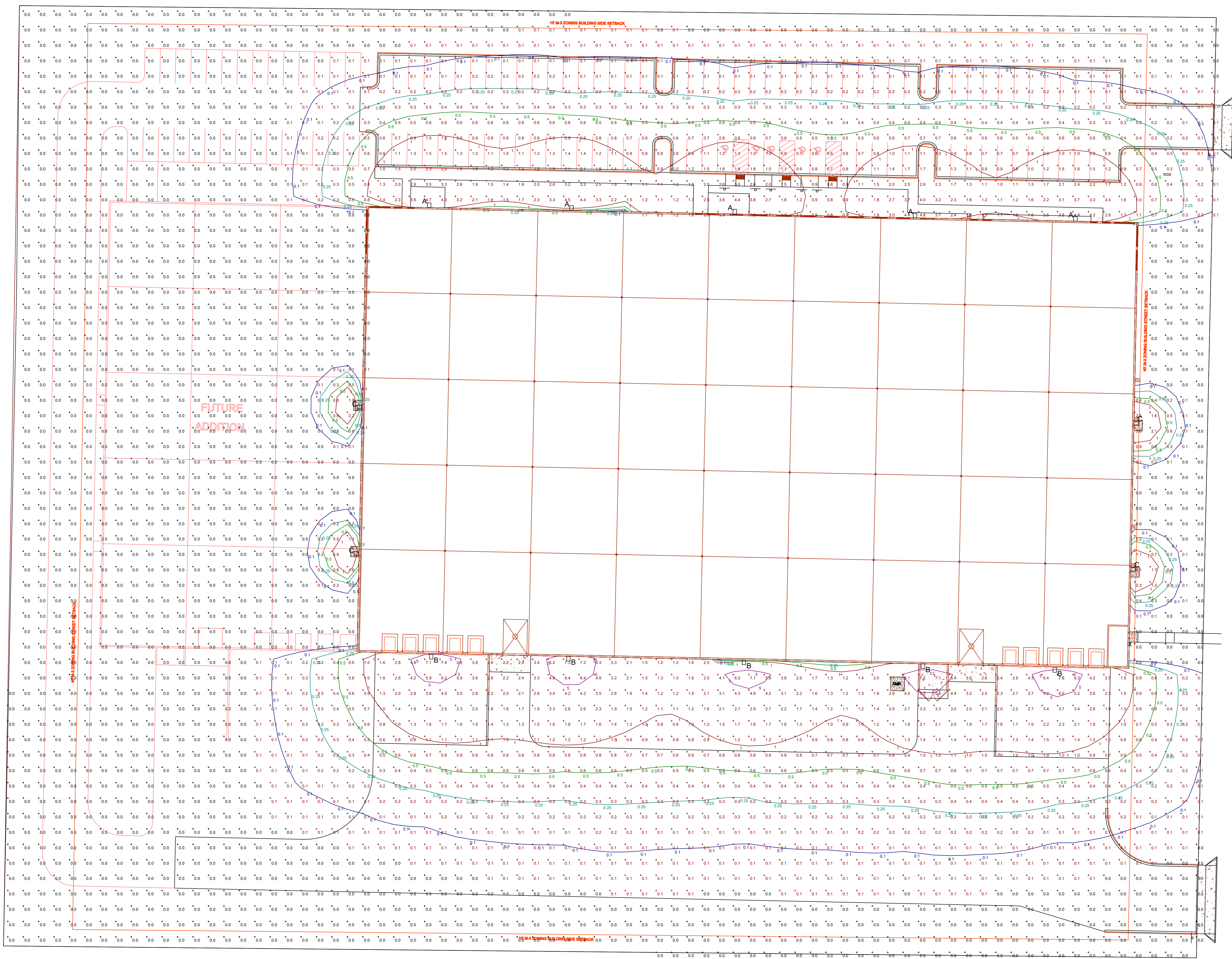
6 TRASH ENCLOSURE - SOUTH ELEVATION
1/8" = 1'-0"

7 TRASH ENCLOSURE - TYPICAL SIDE ELEVATIONS
1/8" = 1'-0"

OVERALL EXTERIOR ELEVATIONS

PROPOSED NEW BUILDING FOR:
BRIOHN LAND DEVELOPMENT
CORPORATE DRIVE
(TAX KEY WAKC 1382005007)
WAUKESHA, WI 53189

Revision	Date	Job	Drawn	Checked	Date	Sheet
		240079	CK	DF/PG	FEBRUARY 20, 2025	A5.0



Schedule						
Symbol	Label	QTY	Manufacturer	Catalog Number	Lumens per Lamp	Wattage
□	A	5	RAB Lighting Inc.	A17-4T100N Wall mounted at 24' 4000K color temperature	13928	97.56
□	B	5	RAB Lighting Inc.	A17-4T150N Wall mounted at 24' 4000K color temperature	21204	149.17
□	C	4	C-LITE	C-EE A EMG DEC BB DB Wall mounted at 10' 4000K color temperature	1286	12

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.4 fc	7.6 fc	0.0 fc	N/A	N/A



Briohn Land Development, LLC

WAUKESHA, WI


Exterior Photometric Lighting Plan

DATE:
1-24-2025

REVISIONS:

E-1.0

A17-4T100N+A17-WM **Type: A** **RAB**



Color: Bronze Weight: 11.2 lbs

Project: _____ **Type:** _____

Prepared By: _____ **Date:** _____

Driver Info

Type	Constant Current	Watts	150W
120V	1.0A	Color Temp	4000K
208V	0.60A		
240V	0.50A	L70 lifespan	100,000 Hours
277V	0.40A	Lumens	1182 L3
Input Watts	91.56W	Efficiency	141.7 lm/W

LED Info

Technical Specifications

Compliance

UL Listed: Suitable for wet locations

ESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with ESNA LM-79 and LM-80.

DLC Listed: This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC S.1 requirements. DLC Product Code: PLB148004U

Driver: Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 1.56A, 208V:0.70A, 240V:0.70A, 277V:0.60A

Dimming Driver: Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. dims down to 10%.

THD: 3.67% at 120V, 10.35% at 277V

Power Factor: 99.8% at 120V, 94.4% at 277V

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A17-4T100N+A17-WM **Type: A** **RAB**

Technical Specifications (continued)

Construction

Green Technology: Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs: Long-life, high-efficiency, surface-mount LEDs

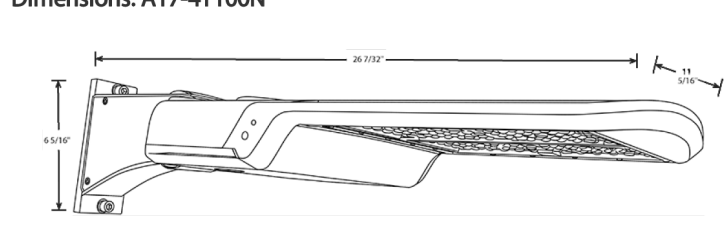
Color Uniformity: RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSA) Products, ANSI C78.377-2017

Buy American Act Compliance: RAB values USA manufacturing! Upon receipt, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Other

5 Yr Limited Warranty: The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Dimensions: A17-4T100N



Features


- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

Family	Distribution	Wattage/Lumens	Mounting	Color Temp	Driver	Options
A17	-	4T	100	N		
	3T = Type III	70 = 70W/10,000LM	Blank = Universal Pole Mount	Blank = 5000K Cool	Blank = 120-277V, 0-10V Dimming	Blank = No Option
	4T = Type IV	100 = 100W/13,000LM	SF = Splitter (Factory installed SF available in 150W)	N = 4000K	/480 = 480V, 0-10V Dimming	/SPRS = 5-pin Receptacle and Shooting Cap
	5T = Type V	150 = 150W/21,000LM				/7PRS = 7-pin Receptacle and Shooting Cap
		200 = 200W/30,000LM				/MS = Microwave Motion Sensor
		240 = 240W/36,000LM				/LC = Lightcloud® Controller
		300 = 300W/45,000LM				
		375 = 375W/51,000LM				

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A17-4T150N+A17-WM **Type: B** **RAB**



Color: Bronze Weight: 13.2 lbs

Project: _____ **Type:** _____

Prepared By: _____ **Date:** _____

Driver Info

Type	Constant Current	Watts	150W
120V	1.0A	Color Temp	4000K
208V	0.60A		
240V	0.70A	L70 lifespan	100,000 Hours
277V	0.60A	Lumens	21204 L3
Input Watts	148.17W	Efficiency	142.1 lm/W

LED Info

Technical Specifications

Compliance

UL Listed: Suitable for wet locations

ESNA LM-79 & LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with ESNA LM-79 and LM-80.

DLC Listed: This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC S.1 requirements. DLC Product Code: PL7C205F00M

Driver: Constant Current, Class 2, 120-277V, 50/60Hz, 120V: 1.56A, 208V:0.70A, 240V:0.70A, 277V:0.60A

Dimming Driver: Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. dims down to 10%.

THD: 3.85% at 120V, 9.26% at 277V

Power Factor: 99.8% at 120V, 93.2% at 277V

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A17-4T150N+A17-WM **Type: B** **RAB**

Technical Specifications (continued)

Construction

Green Technology: Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs: Long-life, high-efficiency, surface-mount LEDs

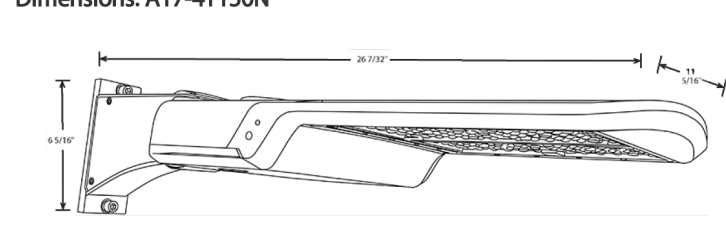
Color Uniformity: RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSA) Products, ANSI C78.377-2017

Buy American Act Compliance: RAB values USA manufacturing! Upon receipt, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Other

5 Yr Limited Warranty: The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Dimensions: A17-4T150N



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, Limited Warranty

Ordering Matrix

Family	Distribution	Wattage/Lumens	Mounting	Color Temp	Driver	Options
A17	-	4T	150	N		
	3T = Type III	70 = 70W/10,000LM	Blank = Universal Pole Mount	Blank = 5000K Cool	Blank = 120-277V, 0-10V Dimming	Blank = No Option
	4T = Type IV	100 = 100W/13,000LM	SF = Splitter (Factory installed SF available in 150W)	N = 4000K	/480 = 480V, 0-10V Dimming	/SPRS = 5-pin Receptacle and Shooting Cap
	5T = Type V	150 = 150W/21,000LM				/7PRS = 7-pin Receptacle and Shooting Cap
		200 = 200W/30,000LM				/MS = Microwave Motion Sensor
		240 = 240W/36,000LM				/LC = Lightcloud® Controller
		300 = 300W/45,000LM				
		375 = 375W/51,000LM				


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C-EE-A-EMG-DEC Series **LED Wet-Listed Emergency Light** **E-LITE** LED LIGHTING

Type: C

This Emergency Light Has Your Back

Our LED Wet-Listed Emergency Light delivers 1286 lumens in AC mode and 350 lumens in EM mode. It's available in bronze or white finish, comes with a 5-year warranty, and includes a battery backup.



PRODUCT SPECIFICATIONS

OVERVIEW

- Initial Delivered Lumens: 1286 lumens in AC mode and 350 lumens in EM mode
- Input Power: 12W (2 LEDs x 6W) per unit
- Finish Color: Bronze, White
- Operating Temperature Range: 32°F to 122°F (0°C to 50°C) 22°F to 122°F (-30°C to 50°C) (Cold Locations)
- Battery Backup: Yes
- Limited Warranty: 5 Years*
- UL Listed
- Field-selectable wiring allows for AC operation so unit can be controlled with a wall-switch, photocell or any other switching mechanism
- Meets UL924, NFPA 101 Life Safety Code, NEC & OSHA codes

HIGH END FEATURES

- Includes photocell & self-diagnostic testing for reliable operation
- Scaled decorative housing is suitable for wet locations
- Easy-mount back plate
- LED indicator light shows battery charge status
- Cold location version for use to 22°F (-30°F)

RECOMMENDED USE

- General purpose emergency lighting
- Indoor/outdoor commercial, retail & industrial applications

INPUT VOLTAGE

- Universal (0-20V through 277V Operation)

ORDERING INFORMATION

Example: C-EE-A-EMG-DEC-CL-WET-COLD-88-DB

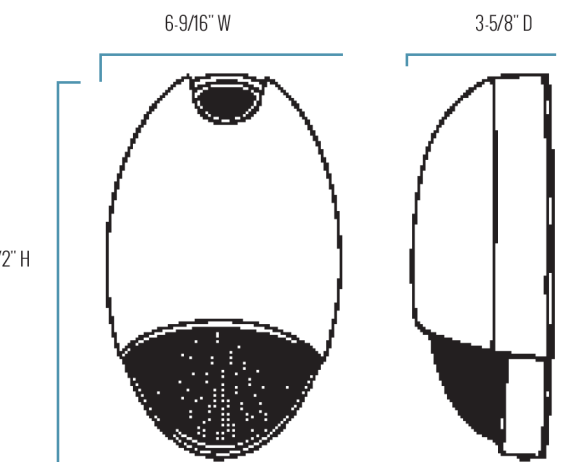
C-EE	A	EMG	DEC	BB	DB		
PRODUCT	SERIES	TYPE	DECORATIVE	LUMEN PACKAGE	LISTED	BATTERY	FINISH COLOR
C-EE	A	EMG LED Emergency Light	DEC Operative	BLANK For Standard Wet-Listed Version Only For WET-COLD Version Only	WET-COLD Wet-Listed Cold Location	BB Battery Backup	DB Dark Bronze WH White

CERTIFICATIONS:

UL LISTED WET LOCATION MARKED SYMAN

US: cee@lighting.com, e-ceedlight.com Distribution Sales: 855-817-3722 Customer Service: 888-743-8445 Fax: 888-743-8445 For informational purposes only. Content is subject to change. *See lighting.cree.com/warranty for details.

C-EE-A-EMG-DEC Series



SERIES OVERVIEW

DIMENSIONS	PRODUCT WEIGHT
3.5/8" D x 6.9/16" W x 10.1/2" H	4.65 lbs.

FIXTURE SPECIFICATIONS

HOUSING	Die cast aluminum housing Available in dark bronze or white durable powder-coat finish Scaled and gasketed
WIRING OPTIONS	Normally Off - Fixture on in AC and emergency modes Switched - Fixture can be switched on and off. Unit will always come on in emergency mode regardless of switch position Photocell sensor included as a standard for use as dusk to dawn light Field-selectable wiring allows for AC option of unit to be controlled using a wall switch or photocell or any other switching mechanism
MOUNTING	Back plate for wall mount Universal knock-out pattern on back plate provides for easy installation over most standard junction boxes Threaded opening at the top of the enclosure for conduit mount
INCLUDES	Scaled 4.8V maintenance-free nickel cadmium battery backup (Minimum 90 minute emergency illumination) Charge/Power on indicator LED (Battery recharges within 24 hours via inhaled solid-state, two rate charger) Push-to-test switch Photocell sensor and self-diagnostics come standard with fixture

ELECTRICAL PERFORMANCE

OPERATING TEMPERATURE RANGE				
32°F to 122°F (0°C to 50°C), 22°F to 122°F (-30°C to 50°C) (Cold Locations)				
INPUT VOLTAGE	120V	208V	240V	277V
CURRENT DRAW (amps)	0.10A	0.056A	0.052A	0.043A

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C-EE-A-EMG-DEC Series

WARRANTY AND CERTIFICATIONS

WARRANTY	UL LISTED
5 Year Limited Warranty	Wet Locations

CA RESIDENTS WARNING: Cancer and Reproductive Harm - www.p66.org/cpr

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LIGHTING CUT SHEETS

PROPOSED NEW BUILDING FOR:
BRIOHN LAND DEVELOPMENT
CORPORATE DRIVE
(TAX KEY WAKC 1382005007)
WAUKESHA, WI 53189

Revision	
Date	
JOB:	240079
DRAWN:	CK
CHECKED:	DF/PG
DATE:	FEBRUARY 20, 2025
SHEET:	

E2.0