

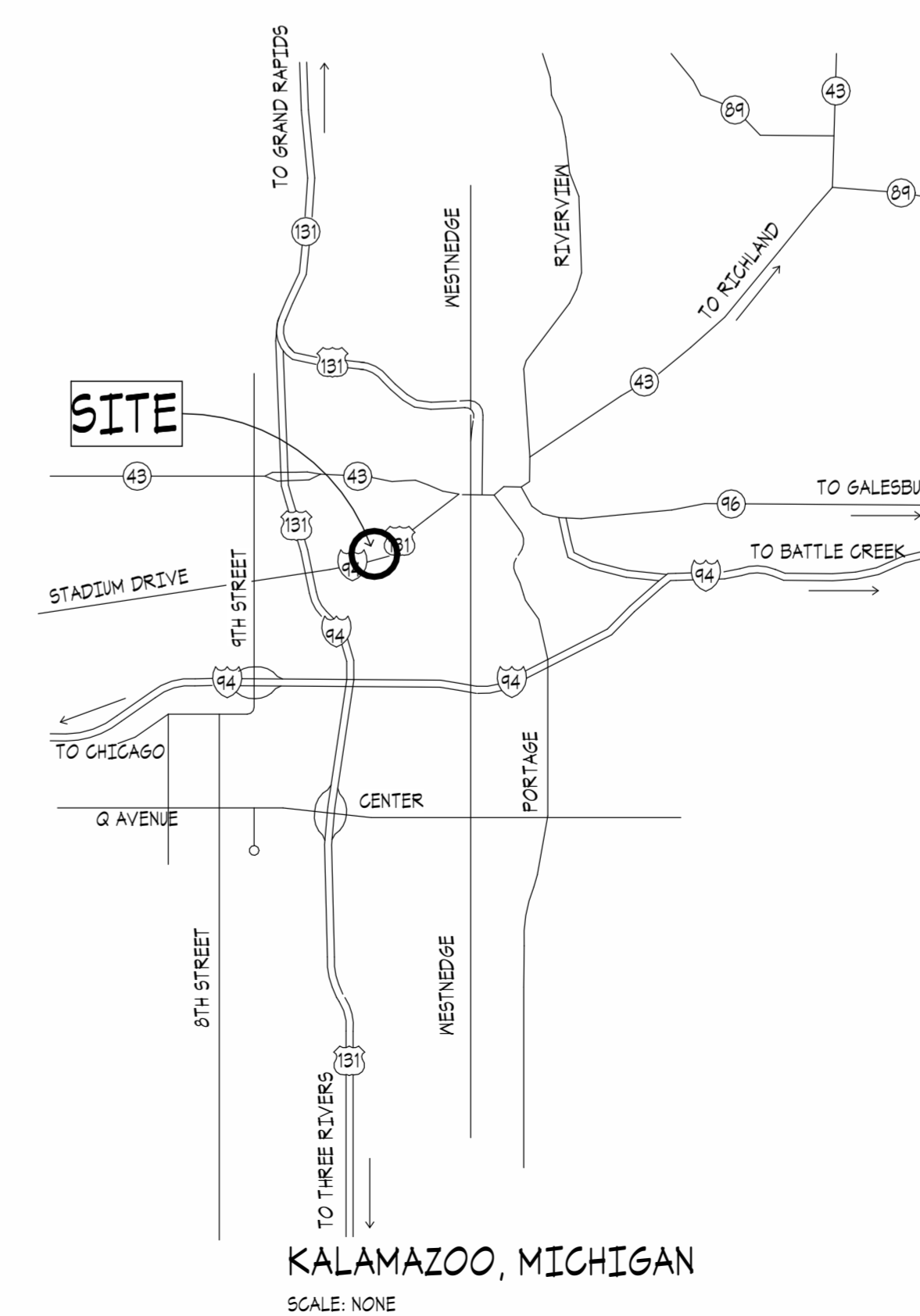
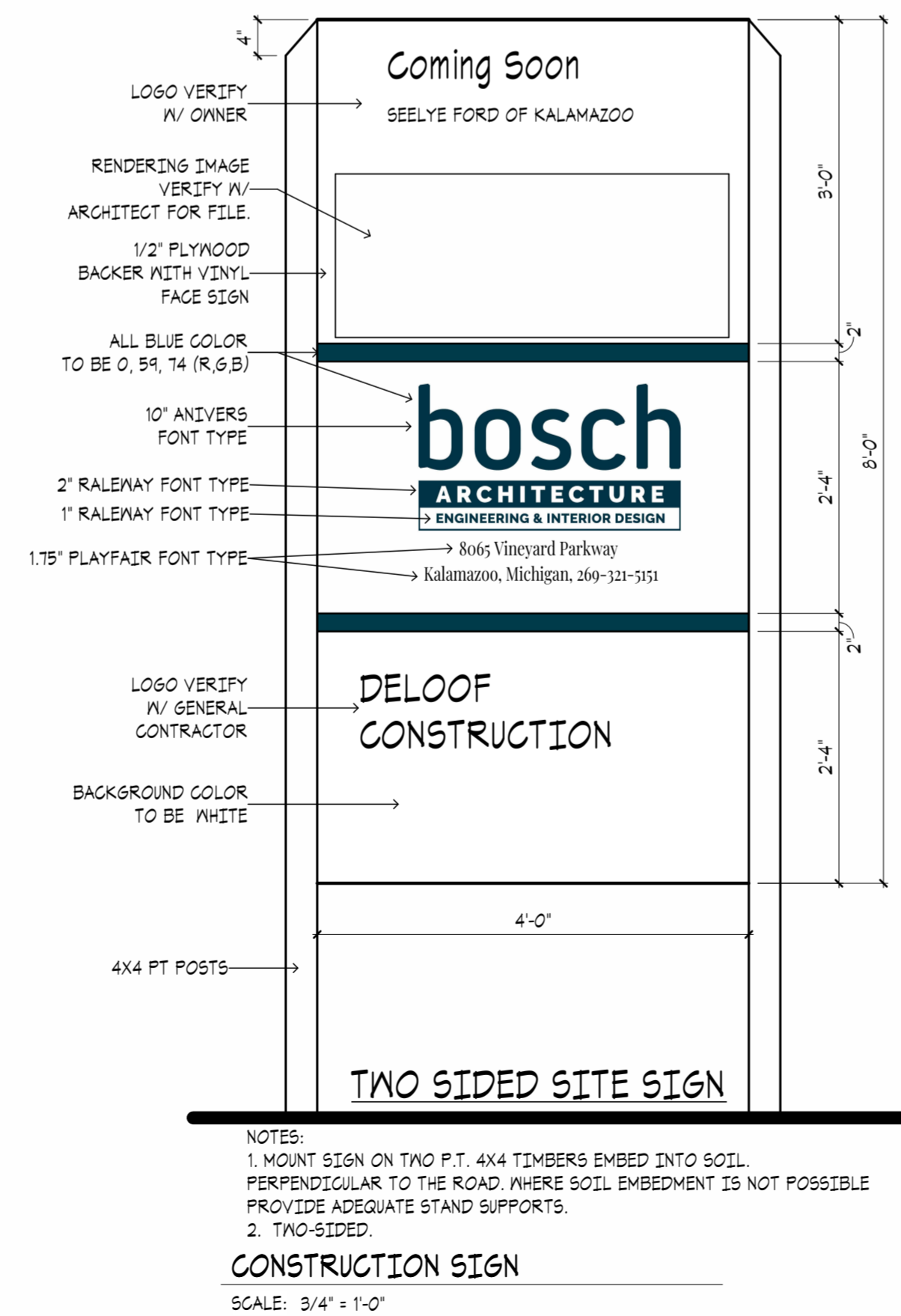
# Seeyle Car Wash

3802 Stadium Dr, Kalamazoo, MI 49008

Site Plan Review  
Received: 07/08/2024  
City of Kalamazoo



Seeyle Car Wash  
3802 Stadium Dr, Kalamazoo, MI 49008



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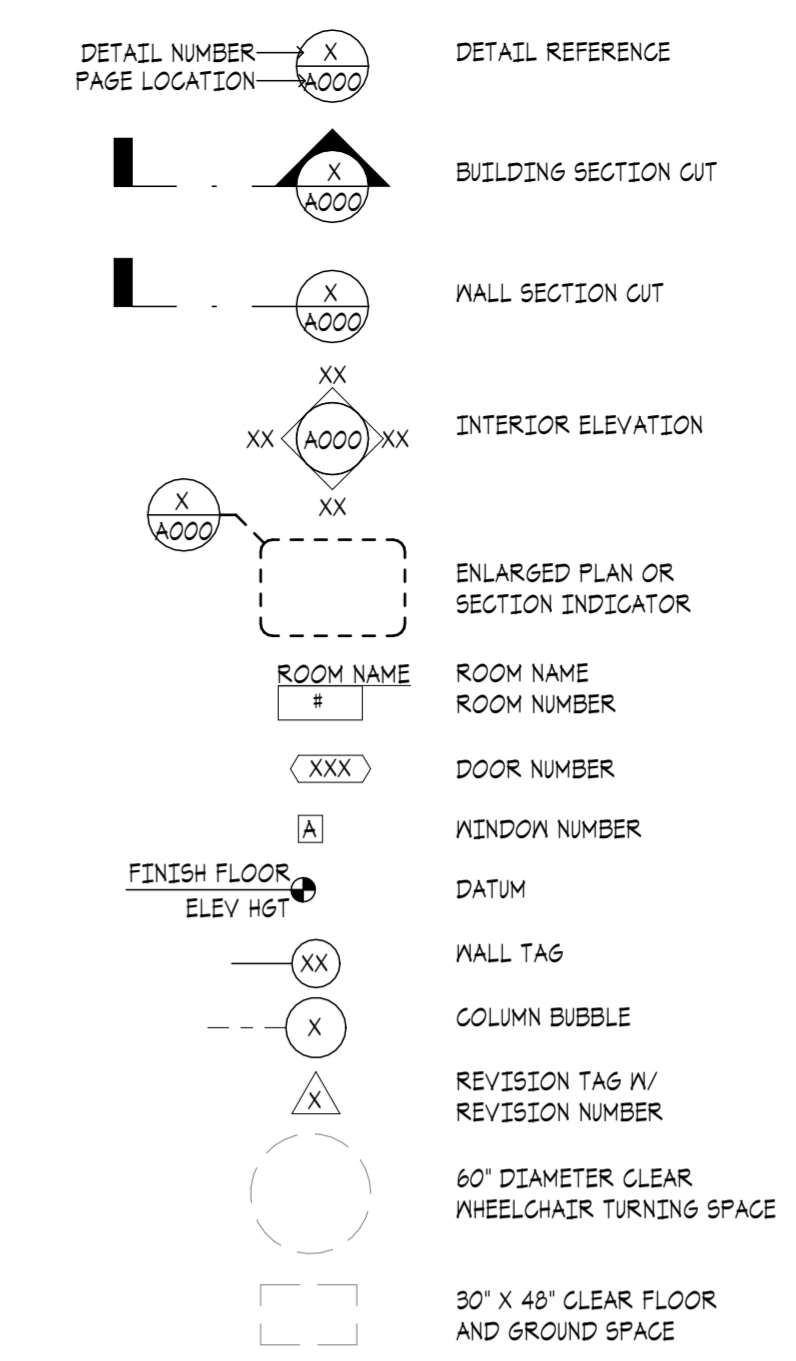
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**bosch**  
ARCHITECTURE  
ENGINEERING & INTERIOR DESIGN

PN:23057  
07/27/2024 3:24:11 PM  
8065 Vineyard Parkway  
Kalamazoo, MI 49009  
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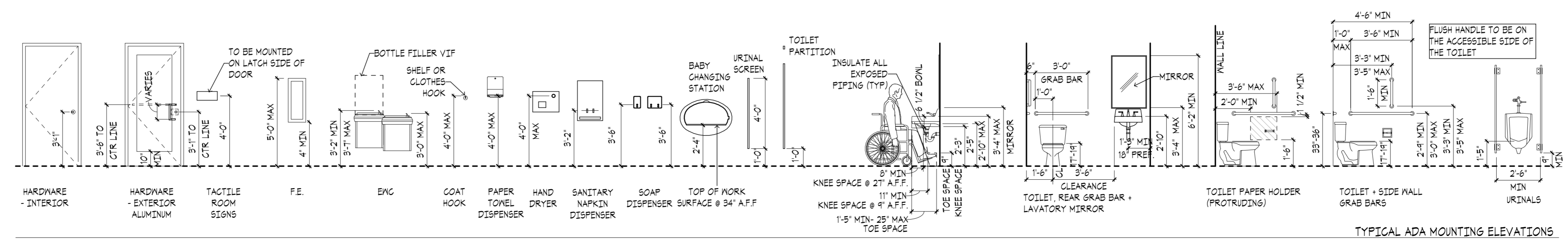
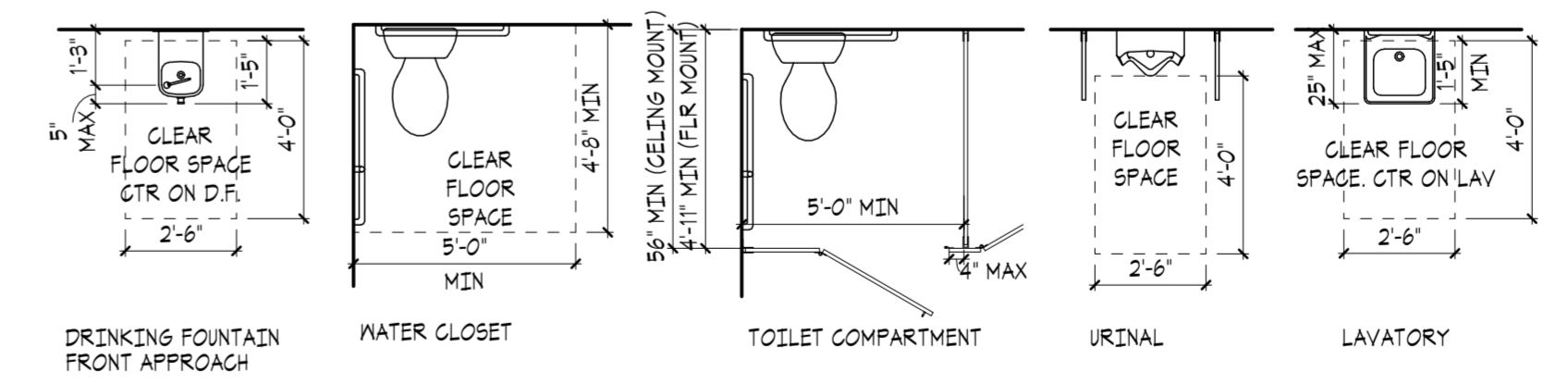
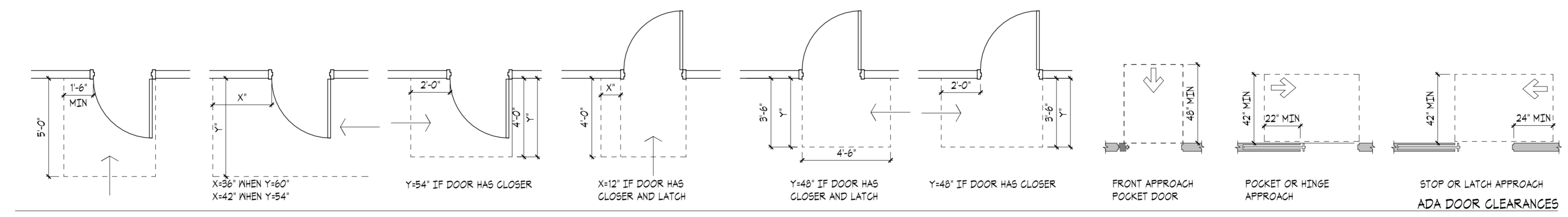
**G001**  
COVER SHEET

STANDARD DRAWING NOTATION



STANDARD ABBREVIATIONS

AF	ABOVE FINISHED FLOOR
ADJ	ADJACENT
AGG	AGGREGATE
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASPH	ASPHALT
ACT	ACOUSTICAL CEILING TILE
BC	BOTTOM OF CURB
BSMT	BASEMENT
BRG	BEARING
BM	BENCH MARK
BLKG	BLOCKING
BD	BOARD
BLDG	BUILDING
CAB	CABINET
C TILE	CERAMIC TILE
CI	CAST IRON
CJ	CONTROL JOINT
CLS	CEILING
CMU	CONCRETE MASONRY UNIT
CT	CERAMIC TILE
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUE / CONTINUOUS
CPT	CARPET
CRS	COURSE
CFT	CUBIC FOOT
CYD	CUBIC YARD
DL	DEAD LOAD
DTL	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DS	DOWNSPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ENG	ELECTRICAL WATER COOLER
EL	ELEVATION
ELEV	ELEVATOR
EQ	EQUAL
ETF	ELEVATION TOP OF FOOTING
FO	FACE OF
FIN	FINISH
FFE	FINISH FLOOR ELEVATION
FE	FIRE EXTINGUISHER
FLR	FLOOR
FD	FLOOR DRAIN
FTG	FOOTING
FND	FOUNDATION
FAI	FRESH AIR INTAKE
FBO	FURNISHED BY OTHER
GA	GAGE GAUGE
GC	GENERAL CONTRACT(OR)
GL	GLASS GLAZING
GB	GRAB BAR
GT	GROUT
GYP BD	GYPSPUM BOARD
HND	HARDWOOD
HDR	HEADER
HVAC	HEATING, VENTILATION, AIR CONDITION
HST	HEIGHT
HPL	HIGH PRESSURE LAMINATE
HG	HOLLOW GORE
HM	HOLLOW METAL
HB	HOSE BIBB
INCL	INCLUDE(D), (ING)
ID	INSIDE DIAMETER
INSUL	INSULATE(D), (ION)
INV	INVERT
JOINT	JOINT
LAM	LAMINATED(D)
LAV	LAVATORY
LTL	LINTEL
LL	LIVE LOAD
MH	MANHOLE
MAX	MAXIMUM
MECH	MECHANIC(AL)
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OA	OVERALL
PL	PLATE
PNT	PAINT(ED)
PNL	PANEL
PNT	PARTITION
PVMT	PAVEMENT
PLAS	PLASTIC
PND	PLYWOOD
PT	POINT
PVC	POLYVINYL CHLORIDE
PSF	POUNDS PER SQUARE FOOT
PFL	POUNDS PER LINEAL FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
Q TILE	QUARRY TILE
RAD	RADIUS
REF	REFRIGERATOR
RA	RETURN AIR
ROM	ROUGH OPENING
RD	ROOF DRAIN
ROM	ROUGH OPENING
RO	ROUGH OPENING
SCH	SCHEDULE
SEC	SECTION
SHT	SHEET
SIM	SIMILAR
SC	SOLID CORE
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
TC	TOP OF CURB
TEL	TELEPHONE
TV	TELEVISION
T&G	TONGUE AND GROOVE
TO	TOP OF
TRF	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFI	VERIFY IN FIELD
VIN	VINYL
VIN TILE	VINYL TILE
MSCT	MANSUOT
WC	WATER CLOSET
WVF	WELDED WIRE FABRIC
WD	WOOD
W	W/TH



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**Goood**  
TYPICAL ABBREVIATION &  
ADA REQUIREMENTS

## DIVISION 1 - GENERAL REQUIREMENTS

REQUIRED SHOP DRAWINGS TO SUBMIT - UNLESS NOTED OTHERWISE ALL SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT IN ELECTRONIC FORM ONLY. COLOR SAMPLES ARE TO BE ELECTRONIC AND HARD COPY.

- A. CONCRETE MIXTURE
- B. REBAR SIZE
- C. WOOD ROOF STRUCTURE
- D. WOOD FRAMING AND BRACING
- E. INSULATION PRODUCT DATA
- F. ALUMINUM DOOR HARDWARE CUT SHEETS AND SAMPLE
- G. ALUMINUM DOOR, FRAMES AND WINDOW PRODUCT DATA AND DETAILS, INCLUDING WATER DRAINAGE STYLE
- H. GLASS PRODUCT DATA AND SAMPLES INCLUDING TINTING
- I. WINDOW PRODUCT DATA INCLUDING HARDWARE STYLE, COLOR.
- J. CAULK AND SEALANT INCLUDING COLOR SAMPLES
- K. METAL ROOFING PRODUCT DATA, DETAILS AND COLOR SAMPLE
- L. MEMBRANE ROOFING PRODUCT DATA, DETAILS AND COLOR SAMPLE
- M. GUTTERS AND DOWNSPOUTS LOCATIONS, SIZES AND COLOR CHPTS.
- N. ROOF DRAINS WITH DETAILS
- O. METAL SOFFIT, FLASHING AND COPING DRAWINGS AND SAMPLES
- P. FIRE EXTINGUISHER / CABINETS PRODUCT DATA
- Q. FIBER CEMENT SIDING AND TRIM PRODUCT DATA AND COLOR SAMPLE
- R. WOOD DOORS AND HOLLOW METAL FRAMES CUT SHEETS AND COLOR SAMPLES
- S. WOOD DOOR HARDWARE
- T. HOLLOW METAL DOORS AND FRAMES.
- U. MILLWORK PLANS, ELEVATIONS AND DETAILS INCLUDING FINISH AND HARDWARE
- V. ALL INTERIOR FINISHES INCLUDING SHOP DRAWINGS, SUBMITTALS, SAMPLES AND PAINT DRAW
- W. FIRE EXTINGUISHER / CABINETS PRODUCT DATA
- X. PLUMBING FIXTURES AND ACCESSORIES PRODUCT DATA
- Y. HVAC EQUIPMENT, GRILLES, EXHAUST FANS AND DUCT INSULATION PRODUCT DATA
- Z. POWER DEVICES.
- AA. LIGHTING FIXTURES, DEVICES, GEAR AND CONTROLS

## DIVISION 2 - SITEWORK

SUBSURFACE CONDITIONS BASED UPON INFORMATION GATHERED, SUITABLE SUBSURFACE CONDITIONS ARE ANTICIPATED ON THE SITE, FOR FOUNDATION WORK AND OTHER NEEDS, AND BIDS SHALL BE BASED ON SAME. BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND ADOPT ANY MEASURES WITH ALL EXISTING CONDITIONS. IF UNSUITABLE SOILS ARE ENCOUNTERED (LESS THAN 2500 PSF BEARING), AT THE DEPTH SHOWN ON THE DRAWINGS, CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT IN WRITING SO THAT WRITTEN INSTRUCTIONS MAY BE ISSUED.

EXCAVATING, FILLING AND GRADING SUPPLY AND INSTALL ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR ALL EXCAVATING, BACKFILLING, GRADING AND ANY FILL MATERIAL REQUIRED UNDER THIS SECTION OF WORK.

STAKE OUT LOCATION OF NEW STRUCTURE(S) OR SITE BEFORE STARTING WORK, FINAL LOCATION AND OFFSET STAKING TO BE PERFORMED BY A REGISTERED SURVEYOR.

WORK TO INCLUDE EXCAVATING FOR FOOTINGS, AND FOUNDATIONS, FILLING AND BACKFILLING, ROUGH GRADING AS REQUIRED, FURNISHINGS AND INSTALLING GRANULAR FILL WHERE REQUIRED, INCLUDING AREAS OF REQUIRED SUBSURFACE CONDITIONS.

ALL GRANULAR FILL BELOW INTERIOR SLABS SHALL BE CLEAN MINERAL AGGREGATE 3/4" OR SMALLER, OR PEA GRAVEL.

DO NOT BACKFILL UNTIL INSPECTIONS HAVE BEEN MADE AS REQUIRED BY CODE. EXCAVATE FOOTINGS TO WITHIN 2" OF DEPTHS SHOWN ON DRAWINGS. ALL FOOTINGS ARE TO REST ON UNDISTURBED SOIL OR ENGINEERED FILL. PERFORM ALL ROUGH GRADING AS REQUIRED WITHIN 2" AND FINAL GRADING AS REQUIRED TO ATTAIN THE ELEVATIONS REQUIRED. ROUGH GRADE SO THAT SURFACE WATER DRAINS AWAY FROM THE BUILDING FOUNDATION TO DRAINAGE LOCATIONS. REMOVE ALL EXCESS MATERIAL AND DEBRIS FROM SITE, INCLUDING ALL EXCAVATED SOILS.

PROVIDE TEMPORARY TRENCHES AND/OR BERMS TO PREVENT FLOODING OF SUB GRADE. BACKFILLING OF TRENCHES UNDER PAVED AREAS SHALL BE ACCOMPLISHED BY USING SAND FILL OR APPROVED EQUAL, COMPACTING IN 12" LIFTS.

EXCAVATION, TRENCHING, FILLING, ETC. REQUIRED BY PLUMBING-SEWER, MECHANICAL AND ELECTRICAL TRADES IS THE RESPONSIBILITY OF THE TRADE REQUIRING SAME, EXCEPT FOR ANY DEBRIS OR 'SPOILS' REMOVAL, WHICH SHALL BE BY THE EXCAVATION CONTRACTOR.

ALL FOUNDATION EXCAVATION SHALL BE INSPECTED, TESTED AND CERTIFIED BY A QUALIFIED SOILS ENGINEER, WHEN DEEMED ADVISABLE BY THE CONSULTING STRUCTURAL ENGINEER, THROUGH THE ARCHITECT.

ALL FOUNDATIONS SHALL BE CARRIED DOWN TO THE DEPTHS SHOWN ON DRAWINGS, OR DEEPER IF NECESSARY, TO REACH UNDISTURBED SOIL ON MINIMUM DESIGN CAPACITY.

BACKFILL AGAINST GRADE BERMS SHALL BE PLACED EVENLY ON BOTH SIDES.

PLACEMENT OF FILL PLACE AND COMPACT ACCEPTABLE SOILS MATERIAL IN LAYERS TO ACHIEVE REQUIRED ELEVATIONS. PLACE BACKFILL AND FILL MATERIALS IN LAYERS OF NOT MORE THAN 12" AND COMPACT TO REQUIRED MAXIMUM DENSITY. DO NOT PLACE MATERIALS ON MUDDY OR FROZEN SURFACES. ALL FILL SUPPORTING FOOTINGS/FOUNDATIONS SHALL BE COMPACTED TO A MINIMUM 95% ASTM SPECIFICATION D-1557-10 (MODIFIED PROCTOR) DENSITY. COMPACT FILL UNDER PROPOSED FLOOR SLABS ON GRADE, PARKINGS AND DRIVEWAY AREAS TO A MINIMUM 90% ASTM SPECIFICATION D-1557-10 (MODIFIED PROCTOR) DENSITY. BACKFILL BENEATH EXTERIOR WALKS, STOOPS AND PATIOS SHALL BE COMPACTED GRANULAR BACKFILL MATERIAL.

TOP SOIL TO BE PROVIDED BY SITE CONTRACTOR; FINAL GRADING BY LANDSCAPE CONTRACTOR.

MASONRY OR CONCRETE PAVERS (LF SHOWN ON DRAWINGS) PAVERS SHALL BE SET IN A COMPACTED SAND BED, IN A PATTERN AS INDICATED ON THE DRAWINGS. ALL PAVERS SHALL BE MITERED AND SAW CUT AS REQUIRED. SEE DRIVEWAY AND WALK PLAN FOR LOCATION. PROVIDE METAL BORDER EDGE, TYPICAL.

## DIVISION 3 - CONCRETE

CONCRETE FORMWORK BUILD FOOTINGS AND FOUNDATION WALL FORMWORK TO COMPLY WITH DIMENSIONS SHOWN ON DRAWINGS. IF DISCREPANCY ARISES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY SO THAT DIRECTIONS MAY BE ISSUED.

CONCRETE MATERIAL ALL CONCRETE WORK SHALL CONFORM TO ACE 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' SPECIFICATIONS, WITH THE FOLLOWING CRITERIA:

1. STRENGTH OF DESIGN MIX: 3000 PSI AT 28 DAYS FOR FOUNDATIONS (5 BAG MIX)
2. STRENGTH OF DESIGN MIX: 4000 PSI AT 28 DAYS FOR SLABS (6BAG MIX)
3. STRENGTH OF REINFORCING STEEL: ASTM A615 GRADE 60 (60,000 PSI).

PLACING CONCRETE CONCRETE CONTRACTOR SHALL NOT POUR ANY CONCRETE IN ADVERSE WEATHER CONDITIONS OR WHEN SUCH IS FORECAST FOR THE PERIOD FOLLOWING THE POUR, UNLESS PROPER CURING AND PROTECTION IS PROVIDED CONTINUOUSLY UNTIL THE CONCRETE DEVELOPS TO DESIGN STRENGTH.

INSTALL 6 MIL VAPOR BARRIER OVER FILL IN LARGE SHEETS WITH 6" LAPPED JOINTS TURNED UP AT 6" AT WALLS AND BENEATH CONCRETE SLAB.

INSTALL PRE-MOLDED JOINT FILLER FOR SLABS ON PERIMETER INSIDE FACE OF ALL EXTERIOR WALLS, AROUND COLUMNS AND AS SHOWN. TRIM FLUSH WITH TOP OF SLAB.

REMOVE ALL EXCESS MATERIALS AND DEBRIS FROM SITE. CONCRETE REQUIRED BY PLUMBING, MECHANICAL AND ELECTRICAL TRADES IS THE RESPONSIBILITY OF THE TRADE REQUIRING SAME. ALL INTERIOR SLABS SHALL BE TROWEL SMOOTH UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

REINFORCING BARS SHALL CONFORM TO ASTM SPECIFICATIONS A 615; TIES AND STIRRUPS, GRADE 40; ALL OTHER BARS, GRADE 60.

DETAILING AND ACCESSORIES SHALL CONFORM TO THE ACI DETAILING MANUAL, AND TO THE CRSI MANUAL OF STANDARD PRACTICE, CURRENT EDITIONS, UNLESS NOTED OTHERWISE HERE, ON DRAWINGS, OR IN SPECIFICATIONS.

INSTALL ANCHOR BOLTS AT TOP OF FOUNDATION OR WALL WHERE ANY WOOD BILL OR PLATE OCCURS, @ 4'-0" O.C., MIN 6'-0" MAX, MIN/MAX AWF OF EVERY CORNER. 2 BOLTS IN ANY WALL.

ALL BEAM POCKETS TO BE FULLY GROUVED.

PLACING CONCRETE DURING HOT AND COLD WEATHER DURING COLD WEATHER, EQUIPMENT AND MATERIALS SHALL BE PROVIDED TO MAINTAIN A TEMPERATURE OF AT LEAST 50 DEGREES F. IN THE FRESHLY PLACED CONCRETE DURING THE CURING PERIOD.

PROTECT ALL CONCRETE WORK FROM DRYING OUT BY COVERING WITH WATERPROOF PAPER. FASTER DRYING COVER WITH BURLAP OR PLACING APPROVED MEMBRANE CURING COMPOUND. DO NOT USE A CURING COMPOUND MEMBRANE ON ANY SLABS SCHEDULED FOR A SEALER. PERFORM CURING OPERATIONS AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT AND IN ANY EVENT WITHIN 12 TO 24 HOURS. CURING SHALL BE MAINTAINED FOR AT LEAST 7 DAYS.

CONTROL JOINTS SEE STRUCTURAL.

CUTTING AND SLEEVES OPENING SIZES AND LOCATIONS FOR PIPES, DUCTS, ETC. WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH MECHANICAL CONTRACTOR BEFORE FORMING. COORDINATE WITH OTHER TRADES FOR SLEEVE LOCATIONS FOR OTHER TRADES WORK. PROVIDE SLEEVES AT ALL FOUNDATION WALL PENETRATIONS. CONCRETE CONTRACTOR SHALL SUPERVISE MECHANICAL TRADES REGARDING PIPINGS, ELECTRICAL CONDUIT, FIXTURE INSERTS, ANCHORS ETC. PIPING THROUGH CONCRETE BARS SHALL NOT BE CUT OR DISPLACED UNLESS ABSOLUTELY NECESSARY AND THEN ONLY BY CONCRETE CONTRACTOR. CUTTINGS SHALL BE EQUAL TO ANY BARS SHALL BE ADDED WITH PROPER LAPS AND EMBEDMENTS. CLEAR DISTANCE BETWEEN SLEEVES SHALL BE A MINIMUM OF 8 INCHES.

## DIVISION 4 - MASONRY

GENERAL PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES SPECIFIED OR NECESSARY TO COMPLETE ALL MASONRY WORK SHOWN.

ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN STANDARD BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION, AS WELL AS CODES HAVING JURISDICTION. COORDINATE WITH OTHER WORK THAT MUST BE INTEGRATED WITH MASONRY.

MORTAR SHALL CONFORM TO ASTM C-476 AND SHALL HAVE A COMPREHENSIVE STRENGTH OF 1800 PSI AT 28 DAYS, IN COLOR AS SELECTED BY OWNER.

PROVIDE GROUT IN ACCORDANCE WITH ASTM C44.

PROVIDE GALVANIZED LADDER TIES AT 16" O.C. VERTICALLY FOR BLOCK CONSTRUCTION. VERTICAL CONTROL JOINTS SHALL BE PROVIDED IN ALL MASONRY WALLS, MAXIMUM OF 50' CENTER TO CENTER, OR AS PER ARCHITECTURAL DRAWINGS. ALL OTHER MATERIALS SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE WORK, SHALL BE SELECTED BY CONTRACTOR SUBJECT TO ARCHITECT APPROVAL.

PREPARATION EXAMINE ALL SURFACES TO RECEIVE THE PARTS OF THE WORK SPECIFIED HEREIN. VERIFY ALL DIMENSIONS OF IN-PLACE AND SUBSEQUENT CONSTRUCTION. APPLICATION OF INSTALLATION IF MATERIALS CONSTITUTE ACCEPTANCE OF THE ADJACENT AND UNDERLYING CONSTRUCTION.

GENERAL ERECTION REQUIREMENTS PROVIDE ALL MASONRY CONSTRUCTION ALIGNED, PLUMB AND TRUE IN REQUIRED LAYOUT, MAKING STRAIGHT LEVEL COURSES, UNLESS OTHERWISE SPECIFICALLY INDICATED. CONSTRUCT MASONRY TO FULL THICKNESS AS SHOWN WITH MASONRY UNITS OF SIZES AS NOTED AND SPECIFIED, USING WHOLE UNITS WHEREVER POSSIBLE. CUT MASONRY NEATLY BY POWER-SAW TO OBTAIN SHARP EDGES WITHOUT DAMAGE, AS APPROVED FOR PROVIDING REQUIRED BOND PATTERN AND PROPER FIT AT ALL JOINTS. ALL CUTS AND ENDS MUST BE FINISHED BY OTHER TRADES AND LEAVE ACCURATE OPENINGS NECESSARY FOR SUBSEQUENT INSTALLATION OF OTHER WORK, IN A MANNER TO MAINTAIN REQUIRED STRENGTH AND APPEARANCE OF MASONRY CONSTRUCTION. FILL SOLIDLY AROUND CONDUIT AND SLEEVES PASSING THROUGH MASONRY, WITH MORTAR. COORDINATE WITH OTHER WORK THAT MUST BE INTEGRATED WITH MASONRY.

PROVIDE ADEQUATE FIELD SUPERVISION OF CONSTRUCTION, FULFILLING WITH OFFICIAL INSPECTIONS AND COMPLYING WITH APPLICABLE CODES.

CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING SAME SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX.

AT THE END OF THE DAY, OR DURING A SHUTDOWN, THE TOP SURFACE OF ALL MASONRY SHALL BE PROTECTED TO PREVENT MOISTURE, SUCH AS RAIN OR SNOW OR SLEET, FROM ENTERING MASONRY. THE PROTECTION SHALL COVER THE TOP SURFACE AND EXTEND A MINIMUM OF 2 FEET DOWN ALL SIDES OF THE MASONRY. MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING THEIR ERECTION.

DURING BELOW-NORMAL TEMPERATURE, MASONRY SHALL BE PLACED ONLY ON SOUND UNFROZEN FOUNDATIONS. MASONRY SHALL NOT BE PLACED ON SNOW OR ICE-COVERED SURFACES.

MORTAR BEDDING AND JOINTING LAY UP ALL UNITS WITH FILLER BED AND HEAD JOINTS. ALIGNING ALL CELLS TO MAINTAIN A CLEAR UNOBSTRUCTED SYSTEM OF RULES, USING STANDARD CONCAVE MORTAR JOINTS. PROVIDE STRICT ATTENTION TO MASONRY DETAILS AS SHOWN. ALL VERTICAL JOINTS EVENLY SPACED, CROSS-BANDED AT ALL CORNERS AND OUTER FACES OF ALL UNITS MADE PERFECTLY EVEN, UNLESS OTHERWISE SPECIFICALLY INDICATED ON DRAWINGS. WHILE SETTING MORTAR IS STILL DAMP, FIRMLY COMPACT AS REQUIRED TO OBTAIN CONCAVE-TOOLED JOINTS AT ALL EXPOSED SURFACES. PERFORM GROUTING WITHOUT CLOGGING HOLES, BOXES, OR SPACES, REQUIRED TO THE PROPER INSTALLATION AND CURING OF THE JOINTS. BUILD-UP ALL ANCHORS AND/OR ANCHOR BOLTS REQUIRED. INSTALL ALL BEARING PLATES AND LOOSE STEEL LINTELS. PROVIDE MINIMUM 4" BEARING AND BED LINTELS IN MORTAR, U.N.O.

MORTAR COLOR NATURAL MORTAR - COLOR APPROVED BY ARCHITECT TO CHOOSE FROM FULL LINE (TEC)

FURNISH AND INSTALL ALL BASE FLASHING AND DRIP HOLES WHERE REQUIRED AND AS INDICATED ON DRAWINGS.

PLACEMENT OF JOINT REINFORCEMENT AT ALL FACE BRICK LOCATIONS SHOWN ON DRAWINGS PROVIDE CORROSION RESISTANT SLOTTED SIDE MOUNTED STUD TIE (CAVITY AND CONTINUOUS INSULATION TYPE BY FERO OR EQUAL.) @ 16" O.C. VERTICAL AND 24" O.C. HORIZONTAL, MAX AREA OF SUPPORT TO BE 3.25 SF. PLACE UNITS PROVIDE CONTINUOUS REINFORCEMENT, WITH CORNER AND TEE SECTIONS AT ALL WALL INTERSECTIONS. SET JOINT UNITS TOGETHER BY LAPPING SIDE BARS A MINIMUM OF 6" AT ADJOINING ENDS OF LENGTHS. STOP REINFORCEMENT 2" AWAY FROM BOTH SIDES OF VERTICAL CONTROL JOINTS. AT ALL OPENINGS IN WALLS, PLACE ADDITIONAL REINFORCEMENT IN BED JOINT OF COURSES ABOVE AND BELOW OPENINGS AND EXTEND AT LEAST 24" BEYOND EACH SIDE OF EACH OPENING.

FURNISH AND INSTALL ANY VERTICAL REINFORCEMENT AS INDICATED ON THE DRAWINGS. ALL JOINT REINFORCEMENT FIVE IN EXTERIOR WALLS MUST COMPLY WITH ASTM A193 CLASS B2, AND BE HOT-DIPPED GALVANIZED, 150UNCE PER SQUARE FOOT PER ASTM A193-B2.

CAST STONE / MASONRY MATERIALS 1) MANUFACTURER INSTALLATION RECOMMENDATIONS ARE TO BE STRICTLY ADHERED TO. 2) ALL JOINTS ARE TO TOOLED CONCAVE TYPE UNLESS OTHERWISE NOTED. 3) RAIN SCREENS AND MORTAR NET TO BE USED AT ALL LOCATIONS.

LINTELS / ANCHOR BOLTS INSTALL STEEL LINTELS AS INDICATED ON DRAWINGS. PROVIDE AND INSTALL ANCHOR BOLTS AS INDICATED ON DRAWINGS, OR AS REQUIRED FOR A COMPLETE INSTALLATION. ALL EXPOSED LINTEL PARTS TO BE PAINTED.

CLEANING CUT OUT ANY DEFECTIVE JOINTS AND HOLES IN EXPOSED MASONRY. RE-POINT WITH MORTAR AND TOOL. AT THE CONCLUSION OF MASONRY WORK, REMOVE ALL SCAFFOLDING AND EQUIPMENT USED IN THE WORK, CLEAN UP ALL DEBRIS, REFUSE AND SURPLUS MATERIAL AND REMOVE SAME FROM PREMISES.

## DIVISION 5 - METALS

STRUCTURAL STEEL ALL STEEL TO BE ASTM A50 COLD ROLLED PLATES AND SHAPES. ANCHOR BOLTS TO BE ASTM A307 WITH HEXAGONAL NUTS. FABRICATE STRUCTURAL STEEL IN ACCORDANCE WITH ALSO SPECIFICATIONS AND AS INDICATED ON DRAWINGS. SHOP PAINT ALL STEEL, U.N.O. AND THOSE ITEMS TO BE EMBEDDED IN CONCRETE. FURNISH SUFFICIENT NUMBER AND VARIETY OF STEEL SHIMS FOR USE IN FIELD. INSTALL STRUCTURAL STEEL COLUMNS, SHIMS, BEAMS, PLATES AND BOLTS AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH REQUIRED TOLERANCES FOR A LEVEL AND TRUE FLOOR AND WALL SYSTEM.

LOOSE STEEL LINTELS, MISCELLANEOUS ANCHORS FURNISH, FOR INSTALLATION BY MASONRY CONTRACTOR, LOOSE STRUCTURAL STEEL LINTELS AND MISCELLANEOUS STEEL ANGLES REQUIRED FOR PROPER INSTALLATION OF MASONRY AND STEEL TIES REQUIRED FOR ALL OPENINGS IN EXTERIOR WALLS. FINISHED PAINTED BY GC.

## DIVISION 6 - CARPENTRY

GENERAL PROVIDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE WORK UNDER THIS CATEGORY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES.

ROUGH CARPENTRY 1) WALL PARAPET ROOF SHEATHING ABOVE ROOF INSULATION SHALL BE 4'-0" X 8'-0" X 5/8" DENS-GLASS GOLD SHEATHING OR 4'-0" X 8'-0" X 1/2" WOOD SHEATHING.

2) ALL SPECIFIED DIMENSIONS ARE FINISHED.

3) THIS CONTRACTOR TO PROVIDE ALL HARDWARE, NAILS, SCREWS, BOLTS, ANCHORS, FRAMING ANCHORS, FASTENINGS, ETC. REQUIRED TO SECURE WORK.

4) ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

INSTALLATION CUT OUT WOOD MEMBERS FOR OTHER TRADES' WORK, SUBJECT TO ARCHITECT'S REVIEW.

FRAME WOOD MEMBERS TO A CLOSE FIT, SET ACCURATELY TO REQUIRED LINES AND LEVELS AND SECURE RIGIDLY IN PLACE IN ACCORDANCE WITH DRAWINGS. PROVIDE ALL BLOCKING AND BASKING IN WALLS FOR WALL-HUNG CABINETS, WALL MOUNTED VIDEO CAMERA AND MONITORS AND OTHER ITEMS AS REQUIRED.

KEEP PREMISES NEAT AND ORDERLY AT ALL TIMES DURING EXECUTION OF THIS PORTION OF THE WORK.

## FINISH CARPENTRY

GENERAL PROVIDE ALL FINISH CARPENTRY WORK AS SHOWN OR REQUIRED TO COMPLETE THIS CATEGORY. RECEIVE AND INSTALL ALL FINISH HARDWARE. INSTALL ALL DOORS, FRAMES AND TRIM AS INDICATED. ALL TRIM TO BE FITTED TIGHT AND MITERED WHEREVER DIRECTION CHANGES. USE ONLY CASE-HARDENED TRIM NAILS, SET 1/8" DEEP, FOR FILLING BY OTHERS.

INSTALL MISCELLANEOUS HARDWARE AS INDICATED ON THE DRAWINGS AND SPECIFIED ELSEWHERE.

ERECT ALL WORK DUE TO LINE AND LEVEL, SECURE AND PERMANENTLY SET IN PLACE. RECEIVE THOSE SPECIALTIES BUILT INTO OR ON WORK OF THIS SECTION AND INSTALL EACH ITEM AS NECESSARY. UPON COMPLETION OF WORK OF THIS SECTION, ADJUST ALL MILLWORK AND HARDWARE TO OPERATE FREELY, PROPERLY AND WITHOUT UNDUE STRESSES FROM BINDING. REFER TO DIVISION 8, DOORS & HARDWARE. SET ALL FINISH NAILS FOR PUTTYING BY PAINTING CONTRACTOR.

## MILLWORK

1) VERIFY ALL FIELD DIMENSIONS PRIOR TO ORDERING MILLWORK OR FABRICATION, PROVIDE OTHER TRADES WITH INFORMATION NECESSARY FOR RELATED WORK.

2) PROVIDE CONCEALED FASTENINGS FOR ALL ATTACHMENTS.

3) ADJUST DOORS AND HARDWARE FOR PROPER MARGINS AND OPERATIONS. SET ALL FINISH NAILS FOR PUTTYING BY PAINTING CONTRACTOR.

4) ALL WOODWORK AND CABINETRY SHALL COMPLY WITH AM1. STANDARDS.

FINISH CABINETRY AND CASEWORK FURNISH AND INSTALL CABINETS WHERE INDICATED ON DRAWINGS. INSTALLATION SHALL BE MADE PLUMB AND TRUE, INCLUDING THE FILLER STRIPS AS REQUIRED, IN ACCORDANCE WITH THE DRAWINGS AND WITH THE SPECIFICATIONS AND INSTRUCTIONS. ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS AND QUALITY STANDARDS ESTABLISHED FOR ARCHITECTURAL WOODWORK INSTITUTE (A.I.).

WOOD DOORS AND FINISH HARDWARE 1) PROVIDE 1/8" CLEARANCE AT HEADS AND JAMBS, AND 3/8" AT DOOR BOTTOMS, ABOVE FINISH FLOOR, EXCEPT WHERE INDICATED TO BE UNDERCUT OR WHERE REQUIRED TO CLEAR THRESHOLDS OR CARPET.

2) RECEIVE FINISH HARDWARE AND BE RESPONSIBLE FOR SAFE STORAGE AND CONDITIONS.

3) INSTALL ALL HARDWARE IN A NEAT AND WORKMAN LIKE MANNER AND IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UPON COMPLETION, ADJUST AND LUBRICATE HARDWARE FOR PROPER OPERATION.

## DIVISION 7 - THERMAL AND MOISTURE PROTECTION

BUILDING INSULATION ALL INSULATION SHALL BE OF THE SIZE AND TYPE DESCRIBED BELOW AND ELSEWHERE ON THE DRAWINGS INCLUDING:

1A) BATT INSULATION: (WALLS): 3-1/2" UNFACED BATTS, R=13 AND 5 1/2" UNFACED BATTS, R=21, TYVEK COMMERICAL BUB ABOVE (ROOF); 12" UNFACED Batts AT TRUSS BEARINGS FOR ROOF INSULATION, R=44. MINIMUM INSULATION VALUES TO MEET THE STATE AND LOCAL ENERGY CODE. ADJUST INSULATING VALUES TO MEET OR EXCEED THE VALUES AT SPECIFIC AREAS.

OR

1B) DAMP SPRAY CELLULOSE INSULATION: (EXTERIOR WALLS ONLY) FILL CAVITY (6.5") WITH MINIMUM R=13.8 PER INCH, MEET A MINIMUM OF 24 HOURS BEFORE INSTALLING DRYWALL. TYVEK COMMERICAL BUILDING WRAP (ALTERNATES APPROVED BY ARCHITECT THAT MEET THE SPECIFICATIONS ABOVE) (ROOF); 19" WITH MINIMUM R = 3.8 PER INCH. INSTALL WITH HEIGHT INDICATORS. MINIMUM INSULATION VALUES TO MEET THE STATE AND LOCAL ENERGY CODE. ADJUST INSULATING VALUES TO MEET OR EXCEED THE VALUES AT SPECIFIC AREAS.

2) VAPOR WALL/BARRIER: FURNISH AND INSTALL 6MIL POLYETHYLENE VAPOR BARRIER AT WARM SIDE OF ALL INSULATED SURFACES, WITH LAPPED JOINTS, 16" MINIMUM.

3) PERIMETER INSULATION TO BE 2" X 24" EXTRUDED POLYSTYRENE COMPATIBLE FOR UNDERGROUND USE.

4) FURNISH AND INSTALL 2-1/4" THERMA-FIBER SOUND BATT INSTALLATION IN ALL INTERIOR WALLS.

5) INSTALL ALL SPECIFIED INSULATION MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

6) PROVIDE FIRE STOPPING PER FOLLOWING SPECIFICATIONS.

7) INSULATION IN CONCEALED SPACES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. EXPOSED INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450.

CAULKING AND SEALANTS ALL CAULKING FOR EXTERIOR SURFACES TO BE DOWN-CORNING 190 OR EQUAL IN COLORS SELECTED BY OWNER. BACKUP FOR CAULKING JOINTS TO BE CLOSED CELL POLYETHYLENE FOAM RODS. SET TO PROPER DEPTHS FOR MAXIMUM CAULKING PERFORMANCE AS PER MANUFACTURER'S SPECIFICATIONS. IMMEDIATELY CLEAN ADJACENT SURFACES WHICH HAVE BEEN SOILED BY CAULKING WITH APPROVED SOLVENTS.

CAULK COLOR TO MATCH ADJACENT MATERIAL. VERIFY WITH ARCHITECT.

## FIRESTOPPING

PROVIDE THROUGH PENETRATION FIRE STOPPING: DOWN CORNING FIRE STOP SEALANT 2000 OR APPROVED EQUAL. THE MATERIAL SHALL BE CLASSIFIED BY UL TO PROVIDE FIRE STOPPING EQUAL TO TIME RATINGS OF CONSTRUCTION BEINGS PENETRATED OR RATING PERIOD REQUIRED BY LOCAL CODES. THIS CONTRACTOR SHALL INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH RATED TEST ASSEMBLIES FOR PUBLISHED THROUGH PENETRATION FIRESTOP SYSTEMS IN UL'S FIRE RESISTANCE DIRECTORY AND AS PER MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. ALL ADJACENT SURFACES SHALL BE FREE OF CONTAMINANTS AND IMPURITIES PRIOR TO FIRESTOP APPLICATION.

HOLES OR VOIDS MUST BE COMPLETELY SEALED TO ENSURE AN EFFECTIVE SMOKE BARRIER.

PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECT TO TRAFFIC AND DRESS SURFACES OF FIRESTOP MATERIAL TO GIVE A SMOOTH CLEAN APPEARANCE.

ALL ADJACENT SURFACES SHALL BE FREE OF EXCESS FIRESTOP MATERIALS AND SOILS AS WORK PROGRESSES. ALL AREAS OF WORK MUST BE KEPT ACCESSIBLE TO ENFORCEMENT CODE AUTHORITIES UNTIL INSPECTED AND APPROVED.

FIRESTOPPING - CONT. THIS CONTRACTOR WILL REPAIR AND PATCH FIRE STOPPING MATERIAL OF ANY DAMAGE CAUSED BY CUTTING OF PENETRATIONS BY OTHER TRADES, SHALL FURTHER INSPECT INSTALLED FIRE STOPPING AFTER 24 HOURS, INCLUDING REMOVAL OF DAMMING MATERIALS IF USED, TO ENSURE AN ADEQUATE FIRE AND SMOKE SEAL. SHALL CORRECT OBSERVED DEFICIENCIES.

THIS CONTRACTOR WILL REMOVE EQUIPMENT, UNUSED MATERIALS AND DEBRIS FROM THE WORK AREA AND LEAVE THE AREA IN A NEAT AND CLEAN CONDITION.

FLASHING WORK, GALVANIZED METAL AND ALUMINUM FURNISH AND INSTALL ALL METAL FLASHINGS, ROOF VALLEYS, COUNTER FLASHINGS, DIVERTERS AND ANCHORS REQUIRED TO PREVENT WATER PENETRATIONS BETWEEN OTHER MATERIALS SEAMS AND JOINTS AND PROVIDE A WEATHER TIGHT BUILDING SHELL. COORDINATES WITH ROOFING CONTRACTOR, CARPENTRY CONTRACTOR AND OTHER INVOLVED TRADES FOR INSTALLATION OF ALL MATERIALS UNDER THIS SECTION. FLASHING TO BE PROVIDED FOR BUT NOT LIMITED TO: TOP AND SIDES OF ALL EXT. WINDOW AND DOOR OPENINGS, UNDER AND ENDS OF MASONRY, ROOF VALLEYS, OPENINGS, WALL/CHIMNEY/ROOF INTERSECTIONS, TERRACE AND PORCH SLAB INTERSECTIONS TO FRAMED WALLS.

SHEET METAL FLASHING AND TRIM SHALL CONFORM TO THE RECOMMENDED PRACTICES CONTAINED IN 'ARCHITECTURAL SHEET METAL MANUAL'; SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, INC. LATEST EDITION.

MATERIALS VALLEYS, FLASHINGS AND COUNTER FLASHINGS: COPPER ON ALL EXPOSED ROOF LOCATIONS; 26 GA GALVANIZED SHEET METAL AND 032 ALUMINUM SHEET FLASHING, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

GUTTERS AND DOWNSPOUTS FURNISH AND INSTALL ALL SHEET METAL GUTTERS, DOWNSPOUTS, ANCHORS AND TRIM, SPLASH BLOCKS, ETC., AS REQUIRED TO COMPLETE THE GUTTERS AND DOWNSPOUT WORK AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. GUTTERS SHALL BE SUPPORTED WITH STRAPS ATTACHED TO THE ROOF BLOCKS AT 3'-0" ON CENTER, STRAPS (AND SPACERS) TO BE SAME MATERIAL AS GUTTER AND SIDING ACCORDINGLY. PROVIDE EXPANSION JOINTS WHERE REQUIRED. DOWNSPOUTS SHALL BE PROPERLY ATTACHED TO SURFACES WHERE INSTALLED. SHEET METAL GUTTERS, DOWNSPOUTS AND TRIM SHALL CONFORM TO THE RECOMMENDED PRACTICES CONTAINED IN 'ARCHITECTURAL SHEET METAL MANUAL', SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, INC. LATEST EDITION (S.M.A.C.N.A.).

## DIVISION 8 - DOORS AND WINDOWS

GENERAL FURNISH AND INSTALL ALL DOORS AND WINDOWS INDICATED ON THE DRAWINGS, SPECIFIED HEREIN, OR NEEDED FOR A COMPLETE AND PROPER INSTALLATION. ALL WOOD DOORS SHALL BEAR THE NMA SEAL OF APPROVAL AND I.S.1. TO STAMP. FIRE DOORS SHALL ALSO BEAR THE UL LABEL FOR THE DESIGNATED RATING. DOORS WITH UL LABELS APPLIED AFTER INSTALLATION SHALL BE REJECTED. ALL DOORS AND WINDOWS SHALL BE OF THE SIZES, TYPES AND DESIGNS SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.

## HANDLING AND STORAGE

HANDLE AND STORE DOORS, FRAMES, AND WINDOWS AT THE JOB SITE IN SUCH A MANNER AS TO PREVENT DAMAGE. DOORS AND WINDOWS SHALL BE RECEIVED BEFORE THE BUILDING IS ENCLOSED. WRAPPINGS OR COVERINGS SHALL BE REMOVED UPON ARRIVAL OF DOORS AT THE JOB SITE. THE DOORS SHALL BE STORED IN A VERTICAL POSITION WITH BLOCKING, CLEAR OF THE FLOOR AND WITH BLOCKS BETWEEN THE DOORS TO PREVENT CRACKING. DOORS AND WINDOW FRAMES, DAMAGED OR OTHERWISE UNSUITABLE DOORS AND FRAMES, WHEN SO ASCERTAINED, SHALL BE IMMEDIATELY REMOVED FROM THE JOB SITE.

## DOORS:

REFER TO DOOR SCHEDULE GUARANTEE UPON DELIVERY OF THE DOORS TO THE JOB SITE, CONTRACTOR TO PROVIDE STANDARD MANUFACTURER'S GUARANTEE AGREEING TO REPLACE OR REPAIR DEFECTIVE DOORS WHICH HAVE (NARPED, BOW, CUP OR TWIST) OR WHICH SHOWN PHOTOGRAPHING OF CONSTRUCTION BELOW IN WOOD VENEER FACES, AS DEFINED IN NMA STANDARD DOOR GUARANTEE, EXCEPT THE NMA PROVISION FOR REFUNDING THE PRICE RECEIVED BY THE DOOR MANUFACTURER FOR ANY DEFECTIVE DOOR SHALL NOT APPLY. THE GUARANTEE SHALL ALSO INCLUDE REFINISHING AND REINSTALLING WHICH MAY BE REQUIRED DUE TO REPAIR OR REPLACEMENT OF DEFECTIVE DOORS. GUARANTEE SHALL BE IN EFFECT FOR A PERIOD OF ONE YEAR FOLLOWING DATE OF ACCEPTANCE.

REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO OBTAIN THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.

FINISH HARDWARE REFER TO HARDWARE / DOOR SCHEDULE

GENERAL FURNISH COMPLETE SYSTEM OF FINISH HARDWARE FOR ALL AREAS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, (EXCEPT ITEMS NOT IN CONTRACT), INCLUDING, BUT NOT LIMITED TO:

- 1) LATCH SETS AND LOCKSETS
- 2) HINGES AND BUTTS (BALL BEARINGS)
- 3) HANDLES AND WEATHER STRIPPING
- 4) DEADBOLTS
- 5) CLOSERS
- 6) DOOR BUMPERS/STOPS

PROVIDE ALL TRIM ATTACHMENTS AND FASTENINGS FOR THE PROPER AND COMPLETE OPERATION. SUBMIT A HARDWARE SCHEDULE AND CATALOG CUT SHEETS TO THE ARCHITECT FOR ALL HARDWARE. HARDWARE SHALL CONFORM TO ALL LOCAL LAWS AND CUSTOMS, AND SHALL BE RECEIVED AND APPROVED BY ALL GOVERNING AUTHORITIES PRIOR TO SUBMITTAL OF SCHEDULE AND ORDERING EQUIPMENT. REVIEW OF THE HARDWARE LIST BY THE ARCHITECT SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF FURNISHING ALL REQUIRED FINISH HARDWARE. CLOSERS SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR USE INTENDED.

COMPLY WITH THE REQUIREMENTS OF UNDERWRITERS LABORATORIES FOR ALL FIRE RATED OPENINGS. FURNISH NON-REMOVABLE FITS AT OUTSTANDING EXTERIOR DOORS (NRP) WHERE NOTED. KEYING: FRONT ENTRANCE AND REAR SERVICE ENTRANCE DOORS ARE TO BE KEVED ALIKE. PROVIDE THREE KEYS.

WINDOWS GLASS AND GLAZING

WINDOWS FURNISH AND INSTALL WINDOWS AS SHOWN IN DRAWINGS.

PROVIDE DOUBLE GLAZING PANEL WITH SCREENS AND HARDWARE AND JAMB EXTENSIONS STANDARD MUNTINS, BETWEEN THE GLAZING GLIPS AND WEATHER STRIPPING.

## FIXED GLAZING

FURNISH AND INSTALL WINDOWS AS SHOWN ON THE DRAWINGS. PROVIDE DOUBLE GLAZING WITH JAMB EXTENSIONS WHERE APPLICABLE. STANDARD MUNTINS AND GLIPS, U.N.O. ALL FIXED UNITS TO HAVE SAME GASH SIZE AS OPERABLE WINDOWS, DIRECT SET GLASS SHALL NOT BE USED, U.N.O.

UPON BEING AWARDED THE CONTRACT, THE WINDOW SUPPLIER IS TO PROVIDE CONTRACTOR A PRINT WITH ALL ROUGH OPENINGS AND ASSOCIATED DIMENSIONS TO ADJACENT WALLS.

VERIFY LOCATIONS OF TEMPERED GLASS.

WEATHERSTRIPPING FURNISH THRESHOLDS FOR ALL EXTERIOR DOORS. THRESHOLDS SHALL BE LATCH TRACK TYPE ALUMINUM, 5/8" HIGH. INSTALL FACTORY-APPLIED WEATHER-STRIPPING ON ALL EXTERIOR DOOR JAMBS AND HEAD.

## DIVISION 9 - FINISHES

GYPSUM WALLBOARD SYSTEM PROVIDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE PROPER INSTALLATION OF THE WORK AS SHOWN ON DRAWINGS AS REQUIRED, AND PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. ALL WALLBOARD TO BE 5/8" THICK (TYPE 'R') FOR SINGLE PLY; 5/8" FIRE-RETARDANT (TYPE 'X') AT BOTH SIDES. USE METAL CORNER BEAD AND METAL TRIP AS REQUIRED. TILE CONTRACTOR TO INSTALL 'WONDER BOARD' AT NET WALLS. COMMENCEMENT OF DRYWALL FINISHING SHALL CONSTITUTE ACCEPTANCE OF FRAMING WORK BY THIS CONTRACTOR FOR PROPER INSTALLATION OF DRYWALL SYSTEM, AND SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ACCEPTABLE RESULTS IN WORK. ONCE BEGIN, ALL JOINTS TO BE FILLED AND SANDED SMOOTH AND LEFT IN A CONDITION COMPLETELY READY FOR FINISHING. BOARDS TO BE SECURED TO FRAMING WITH SELF-TAPPING FLATHEAD SCREWS AND CONSTRUCTION ADHESIVE. NO ADHESIVE ON EXTERIOR WALLS OR OVER POLYETHYLENE VAPOR BARRIER. ALL MATERIALS SHALL BE MANUFACTURED BY UNITED STATES GYPSUM CO., OR APPROVED EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH ITS CURRENT PRINTED EDITION.

**CODE NOTES**

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION  
 MBC 304 BUSINESS GROUP B (CAR WASH)

CHAPTER - 4 SPECIAL DETAILED REQ. BASED ON USE/OGC

NOT APPLICABLE FOR THIS USE AND OCCUPANCY

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

TYPE 5B: (GROUP B GAR WASH)

ALLOWABLE HEIGHT (TABLE 504.3) 40 FEET  
 ALLOWABLE STORIES (TABLE 504.4) 2 STORY  
 ALLOWABLE AREA (TABLE 506.2) 9,000 SF

ACTUAL BLDG HEIGHT 11 FEET  
 ACTUAL NUMBER OF STORIES 1 STORY  
 ACTUAL BLDG AREA 1,123 SF

MBC 506.2.1 SINGLE OCCUPANCY ONE STORY BUILDINGS  
 TOTAL AREA INCREASE:  
 AB\*AH\*(NS X I)<sup>2</sup>

A8 (ALLOWABLE AREA) = NOT REQUIRED  
 MBC 506.3 FRONTAGE INCREASE:  $(W1+L1+W2+L2+W3+L3+...)/F$   
 (NOT REQUIRED)

MBC 506.3.3 TH/F/P-0.25/W/30  
 (NOT REQUIRED)

MBC 508.1 WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH PROVISIONS OF SECTION 508.2, 508.3, OR 508.4, OR A COMBINATION OF THESE SECTIONS. (NOT REQUIRED)

MBC 508.2.4 SEPARATION OF OCCUPANCIES. NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY. (NOT REQUIRED)

MBC 504 INCIDENTAL USES:  
 BOILER ROOMS WITH LARGEST EQUIPMENT IS OVER 15 PSI AND 10HP; (1 HOUR OR SPRINKLE)  
 LAUNDRY ROOMS OVER 100 SF; (NOT REQUIRED)

MBC 510 SPECIAL PROVISIONS:  
 (NOT REQUIRED)

MBC 510.2 HORIZONTAL BUILDING SEPARATION ALLOWANCE (VERTICALLY):  
 (NOT REQUIRED)

CHAPTER 6 - BUILDING CONSTRUCTION TYPE

MBC 602.1 - CONSTRUCTION CLASSIFICATION  
 5B - COMBUSTIBLE UNPROTECTED

MBC TABLE 601 REQUIRED FIRE RESISTANCE RATINGS  
 EXTERIOR WALL (LOAD BEARING) 30'-0" OR MORE = 0 HR  
 EXTERIOR WALL (NONLOAD BEARING) = 0 HR  
 INTERIOR BEARING WALLS = 0 HR  
 INTERIOR NONBEARING WALLS = 0 HR  
 FLOOR CONSTR. INCLUDING BEAMS = 0 HR  
 ROOF CONSTRUCTION = 0 HR

MBC TABLE 602 ALL WALLS ARE GREATER THAN 30 FEET = 0 HR

CHAPTER 7 - FIRE RESISTANCE RATED CONSTRUCTION

MBC 705.8 OPENINGS: ALL DISTANCES TO PROPERTY LINE IS GREATER THAN 20 FT. THEREFORE UNLIMITED UNPROTECTED OPENINGS ARE ALLOWED IN UNPROTECTED BUILDINGS

MBC 706 - FIRE WALLS: FIRE WALLS SHALL PROVIDE A COMPLETE BUILDING SEPARATION. FIRE WALLS ARE TO BE CONSTRUCTED TO ALLOW EITHER SIDE OF THE WALL TO COLLAPSE UNDER FIRE CONDITION.

MBC 706.5 HORIZONTAL CONTINUITY: FIRE WALL SHALL BE CONTINUOUS FROM EXTERIOR WALL OF THE EXTERIOR WALL AND SHALL EXTEND NOT LESS THAN 18" BEYOND THE EXTERIOR SURFACE OF THE EXTERIOR WALL.  
 EXCEPTIONS: (WALL MAY TERMINATE ON INTERIOR FACE OF EXTERIOR SHEATHING 3/4")

- 1 HOUR 4 FT EITHER WAY
- 2 NON COM SHEATHING 4 FT EACH WAY.
- WHERE BUILDING ON EACH SIDE OF FIRE WALL IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM, AUTOMATIC SPRINKLER SYSTEM IS PROVIDED, NO HORIZ EXTENSION IS REQUIRED.

MBC 706.5.2 HORIZ. PROJ. ELEMENTS:  
 THE FIRE WALL SHALL PROJECT TO THE EXTENTS OF THE PROJECTING ELEMENT.

MBC 706.6 VERTICAL CONTINUITY:  
 FIRE WALL SHALL EXTEND FROM THE FOUNDATION TO A TERMINATION POINT NOT LESS THAN 30 INCHES ABOVE BOTH ADJACENT SURFACES.  
 EXCEPTION 4: IN BUILDINGS OF TYPE 3.4.5 CONST WALLS SHALL BE PERMITTED TO TERMINATE AT THE UNDERSIDE OF THE COMBUSTIBLE ROOF SHEATHING OR DECKS PROVIDED WHERE ALL:  
 4.1 THERE ARE NO OPENINGS WITHIN 4 FT  
 4.2 THE ROOF IS COVERED WITH A MIN CLASS B ROOF COVERING  
 4.3 THE ROOF SHEATHING IS CONSTRUCTED OF FIRE RETARDANT - TREATED WOOD FOR A DISTANCE OF 4 FT. ON BOTH SIDES OF THE FIRE WALL

MBC 701.3 FIRE BARRIERS  
 WALLS TO RUN FROM FOUNDATION TO UNDERSIDE OF ROOF DECK.

MBC 708.3 FIRE PARTITIONS: SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

MBC 711 - CONCEALED SPACES  
 711.2 FIRE BLOCKING TO BE INSTALLED VERTICALLY AT CEILING AND FLOOR LEVELS AND HORIZONTALLY NOT EXCEEDING 10'-0"

MBC 718.4 DRAFTSTOPPING  
 EXCEPTION: DRAFTSTOPPING IN ATTICS EVERY 3000 SF (NOT REQUIRED NO CONCEALED SPACES)

CHAPTER 8 - INTERIOR FINISHES  
 INTERIOR WALLS AND CEILING FINISH REQUIREMENTS FOR SPACES

MBC 803 WALL AND CEILING FINISHES  
 803.1.1 INTERIOR WALL AND CEILING CLASSES:  
 CLASS A = FLAME SPREAD INDEX 0-25; SMOKE INDEX 0-450  
 CLASS B = FLAME SPREAD INDEX 26-75; SMOKE INDEX 0-450  
 CLASS C = FLAME SPREAD INDEX 76-200; SMOKE INDEX 0-450

B - CAR WASH UN-SPRINKLED  
 EXIT ENCLOSURES A  
 CORRIDOR B  
 ROOMS + ENCLOSED SPACES C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

MBC 903.2 FIRE SPRINKLER SYSTEM:  
 (NOT REQUIRED)

MBC 906 PORTABLE FIRE EXTINGUISHERS  
 REQUIRED ONE PER FLOOR NEAR EXITS, AND WITHIN 30 FT OF COMMERCIAL COOKING EQUIPMENT, AND PER FIRE CODE MAX TRAVEL DIST. 75 FT.

MBC 901.2.2 GROUP B FIRE ALARM SYSTEM:  
 (NOT REQUIRED)

CHAPTER 10 - MEANS OF EGRESS

MBC 1003.2 CEILING HEIGHT: MEANS OF EGRESS TO HAVE MIN HGT OF 7'-6" AFF.

MBC 1003.3.3 PROTRUDING OBJECTS: MAX 4" IF LESS THAN 60"

MBC TABLE 1004.1.2 OCCUPANT LOAD:  
 CAR WASH 1,123 GROSS/100 = 11 OGC  
 BUILDING TOTAL = 11 OCCUPANTS

MBC 1005.3.2 - MEANS OF EGRESS SIZING: (OGC X 0.2) / WIDTH  
 MIN. EXIT WIDTH 11 OCCUPANT X 0.2' PER OCCUPANT = 3.4' CALC. BUT A MIN. OF 36" PROVIDED

MBC 1006.2.1 SPACES WITH ONE EXIT: MAX OGC OF 49, MAX COMMON TRAVEL DIST (OGC LOAD LESS THAN 30) ALLOWS 100 FT OF DISTANCE WITHOUT SPRINKLER.

MBC 1008 - MEANS OF EGRESS ILLUMINATION:  
 REQUIRED IN B OCCUPANCIES MIN 1 FOOTCANDLE (1 LUX)

MBC 1010.1.1 - SIZE OF DOOR:  
 MIN WIDTH OF DOOR 32" CLEAR, EASILY RECOGNIZABLE, DOOR OPENING FORCE NOT TO EXCEED 5 LB. THRESHOLDS NOT TO EXCEED 3/4" AFF.

MBC 1010.1.2 DOOR SWING: DOORS SHALL BE PIVOTED OR SIDE HINGED TYPE.  
 PIVOT OR SIDE HINGED DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING AND OCCUPANT LOAD OF 50 OR MORE PERSONS.

MBC 1010.1.10 PANIC AND FIRE EXIT HARDWARE:  
 B OGC, NOT REQUIRED

MBC 1011 - STAIRWAYS: NO STAIRWAYS IN THIS PROJECT

MBC 1019 - EXIT SIGNS: NOT REQUIRED IN ROOMS OR AREAS WITH ONE REQUIRED EXIT ONLY. ALL OTHER SPACES ARE REQUIRED TO HAVE EXIT SIGNAGE WITH ILLUM FOR MIN 90 MIN.

MBC 1011 - EXIT ACCESS TRAVEL: B OGC - MAX 200 FT. UNSPRINKLED.

MBC 1020 CORRIDORS: B OGC FIRE RESIS. RATING + 0 HR. EXCEPTION: OGC LOAD LESS THAN 30. 1 HOUR WITHOUT SPRINKLER SYSTEM. (NOT REQUIRED)

MBC 1020.2 WIDTH: DEAD END MAX LENGTH 20 FT. IF BUILDING HAD TWO EXITS. FOR BUILDINGS WITH ONLY ONE EXIT, MIN EXIT WIDTH 36" UNDER OGC LOAD OF 50. (NOT REQUIRED)

MBC 1020.5 CORRIDOR CEILINGSS: NOT TO BE USED AS PLENUM (NOT REQUIRED)

MBC 1022.2 EXTERIOR EXIT DOORS: BUILDINGS OR STRUCTURES USED FOR HUMAN OCCUPANCY SHALL HAVE NO LESS THAN ONE EXTERIOR DOOR

MBC 1028 EXIT DISCHARGE: THE EXIT DISCHARGE SHALL PROVIDE A DIRECT AND UNOBSTRUCTED ACCESS TO A PUBLIC WAY.

CHAPTER 11 - ACCESSIBILITY  
 MBC 1103: EQUIP SPACES, ARE NOT REQ. TO COMPLY TO ACCESSIBILITY

MBC 1104 ACCESSIBLE ROUTE: AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION, ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE.

MBC 1104.3.1 EMPLOYEE WORK AREAS: COMMON USE CIRC. PATHS WITHIN EMPLOYEE WORK AREAS SHALL BE ACCESSIBLE UNLESS UNDER 1000 SF.

MBC 1105 ACCESSIBLE ENTRANCES: AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES ARE TO BE ACCESSIBLE.  
 EXCEPTIONS: 1. AREAS NOT NEEDING TO BE ACCESSIBLE, 2. LOADING AND SERVICE ENT.

MBC 1106 PARKING: ACCESSIBLE PARKING TO COMPLY WITH TABLE 1106.1 SEE CIVIL PLANS

MBC 1109 TOILET FACILITIES: TOILET FACILITIES TO MEET ACCESSIBLE STANDARDS AND MICH BF (NOT REQUIRED)

MBC 1111 SIGNAGE: REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES, TOILET RMG, BATHING RMG.

CHAPTER 12 - INTERIOR ENVIRONMENT  
 MBC 1203- VENTILATION: ALL ATTIC SPACES TO BE VENTILATED

MBC 1203.2.2 UNVENTED ATTIC AND UNVENTED ENCLOSED RAFTER SPACE: ALLOWED WITH CONDITIONS

MBC 1204.2 ATTIC SPACES TO HAVE AN OPENING NOT LESS THAN 20" BY 30" TO ALL ATTICS HAVING A CLEAR HEIGHT OVER 30" CLEAR.

MBC 1204.3 MECHANICAL APPLIANCES: ACCESS TO MECHANICAL APPLIANCES INSTALLED IN UNDER FLOOR AREAS, IN ATTIC SPACES, AND ON ROOFS OR ELEVATED STRUCTURES SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.

**INSULATION VALUES**

2015 MICHIGAN UNIFORM ENERGY CODE:  
 ALL INSULATION VALUES TO MEET OR EXCEED THE STATE AND LOCAL CODE REQUIREMENTS. THE FOLLOWING ARE GUIDELINES FOR INSULATION VALUES. THE CONTRACTORS TO VERIFY WITH THE LOCAL INSPECTOR ALL REQUIREMENTS PRIOR TO BIDDING AND INSTALLATION.

LOCATION	MINIMUM BY CODE	PROJECT PROVIDED
SLAB ON GRADE:	NO REQUIREMENT	HORIZ OR VERT PERIMETER R22 (2" RIGID GRD DN)
WOOD FRAMED WALLS:	R-21	R-21 BATT
ROOF/CEILING:	R-38	R-38

**ACCESSIBILITY NOTES**

1. THIS PROJECT SHALL FULLY COMPLY WITH THE CURRENT EDITION ICC/ANSI A111.1 CHAPTER 11 FOR ACCESSIBILITY.

2. ACCESSIBLE ROUTES SHALL FULLY COMPLY WITH THE CURRENT EDITION ICC/ANSI A111.1 CHAPTER 4 (ACCESSIBLE ROUTES) AND CHAPTER 5 (GENERAL SITE AND BUILDING ELEMENTS)

3. RESTROOMS SHALL FULLY COMPLY WITH THE CURRENT EDITION ICC/ANSI A111.1 CHAPTER 6, SECTION 603, 604, AND 606. (FUTURE)

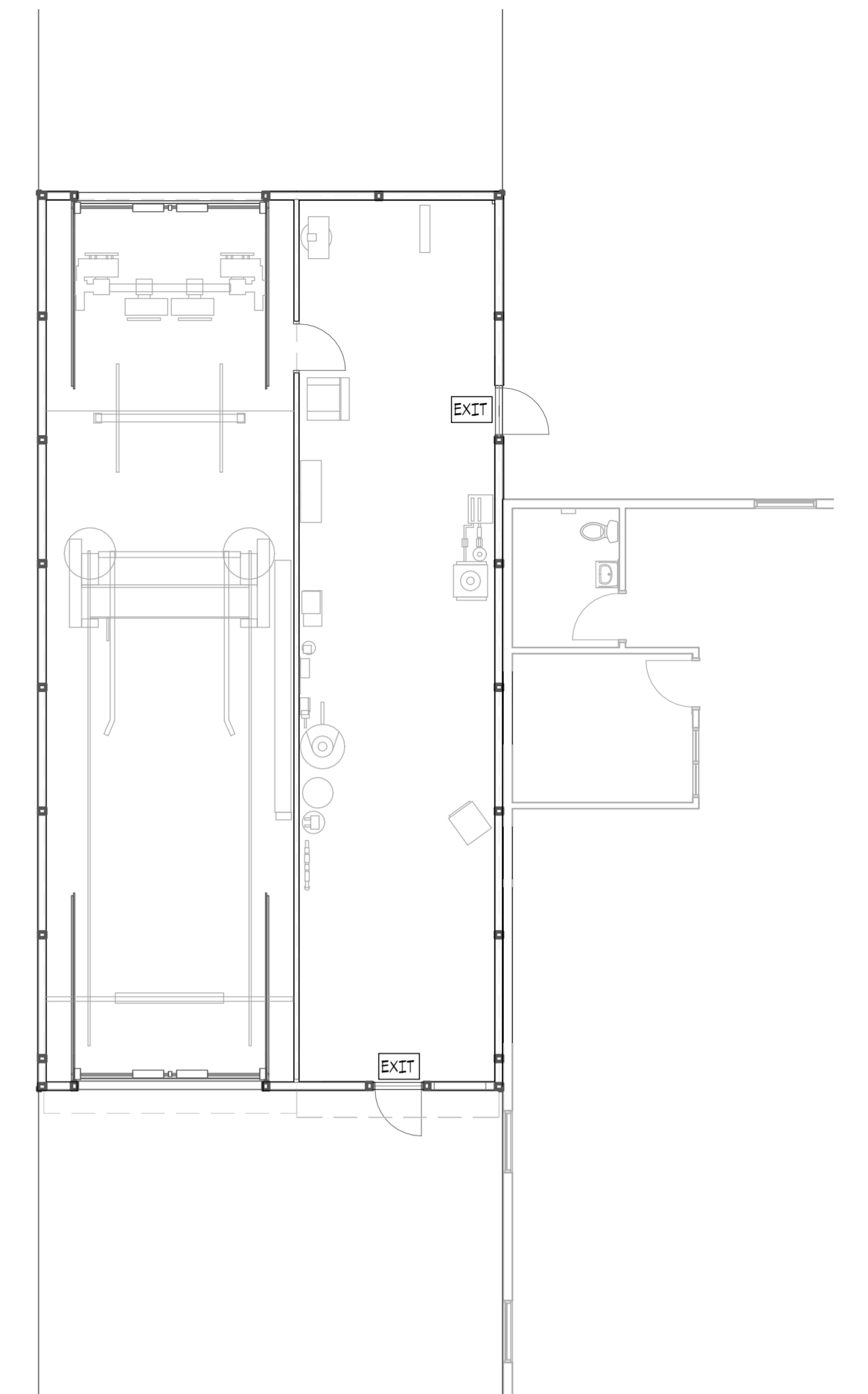
4. DRINKING FOUNTAINS SHALL FULLY COMPLY WITH ICC/ANSI A111.1 CHAPTER 6, SECTION 602. (NOT REQUIRED WHERE WATER IS AVAILABLE)

5. ALL CONTROLS AND OPERATING MECHANISMS TO BE WITHIN REACH RANGE AS PER THE CURRENT EDITION ICC/ANSI A111.1 CHAPTER 7 (COMMUNICATION ELEMENTS AND FEATURES).

6. SIGNAGE WILL BE PROVIDED THROUGHOUT FACILITY WHEREVER APPLICABLE AND COMPLY WITH THE CURRENT EDITION ICC/ANSI A111.1 CHAPTER 7 (COMMUNICATION ELEMENTS AND FEATURES) (COORDINATE WITH OWNER AND OR TENANT)

**PROJECT INFORMATION**

FACILITY:	SEELYE CAR WASH
OWNER:	SEELYE AUTO GROUP LLC
PROJECT LOCATION:	3802 STADIUM DR. KALAMAZOO, MI 49008
MUNICIPALITY:	KALAMAZOO CHARTER TOWNSHIP MICHIGAN
BUILDING OCCUPANCY:	GROUP B OGC CAR WASH
TOTAL BUILDING AREA:	1,123 SF
BUILDING HEIGHT:	11'-0" TO MEAN OF SLOPED ROOF
STORIES:	1 STORY
BUILDING CODES AND CONSTRUCTION STANDARDS:	2015 MICHIGAN BUILDING CODE 2015 MICHIGAN PLUMBING CODE 2015 MICHIGAN MECHANICAL CODE 2015 NATIONAL ELECTRICAL CODE 2015 MBC CHAPTER 11 (ACCESSIBILITY) 2009 ICC/ANSI A111.1 (ACCESSIBILITY) 2012 NFPA 101 LIFE SAFETY



**LIFE SAFETY PLAN**  
 SCALE: 1/8" = 1'-0"

**TYPICAL FIRE-RATING KEY**

DESIGNATION	PARTITION RATING
	3 HOUR FIRE WALL
	2 HOUR FIRE WALL
	1 HOUR FIRE WALL
	3 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER
	1 HOUR FIRE BARRIER
	1 HOUR FIRE PARTITION
	1/2 HOUR FIRE PARTITION
	1 HOUR SMOKE BARRIER
	ZERO HOUR SMOKE PARTITION
	3 HOUR RATED FL/CLG
	1 HOUR RATED FL/CLG (P531/GA RG 2601/2602)
	1/2 HOUR RATED FL/CLG ASSEMB.

1. ALL PENETRATIONS THROUGH A FIRE OR SMOKE RATED PARTITION SHOULD BE SEALED WITH AN APPROVED UL RATED PRODUCT.
2. THE TOPS OF ALL FIRE RATED PARTITIONS SHALL BE SEALED TO THE CONTINUOUS STRUCTURE ABOVE WITH AN UL RATED SYSTEM OR ASSEMBLY.
3. WOOD BLOCKING IN FIRE-RATED PARTITIONS SHALL BE NON-COMBUSTIBLE TREATED WOOD.

**Seelye Car Wash**  
 3802 Stadium Dr, Kalamazoo, MI 49008

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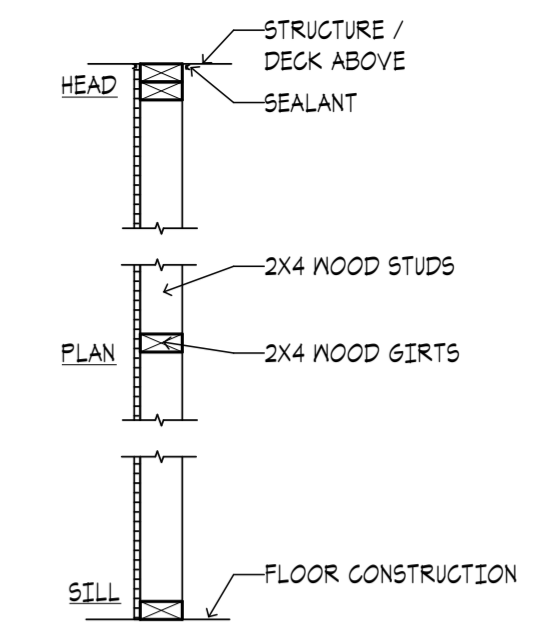
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**bosch**  
**ARCHITECTURE**  
 ENGINEERING & INTERIOR DESIGN

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**A001**  
 CODE ANALYSIS

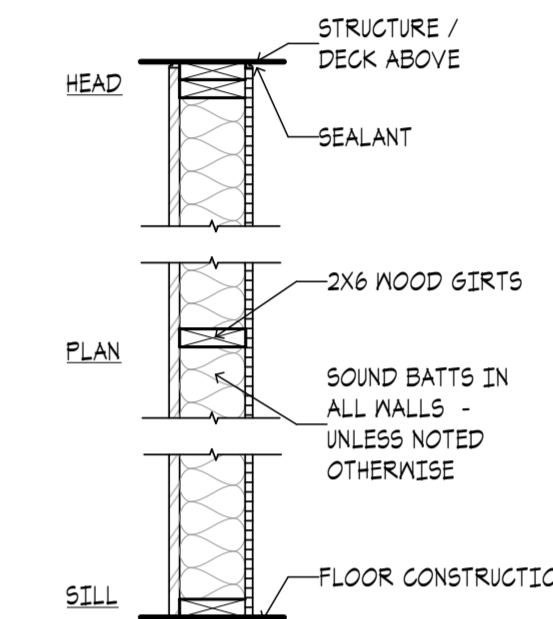
**INTERIOR WALLS**



1D 2x4 WOOD STUDS @ 4'-0" O.C. + 2x4 WOOD GIRTS @ 24" O.C. AND 1/2" CORRUGATED VINYL PANEL ONE SIDE

**WOOD STUD WALL**

**EXTERIOR WALLS**



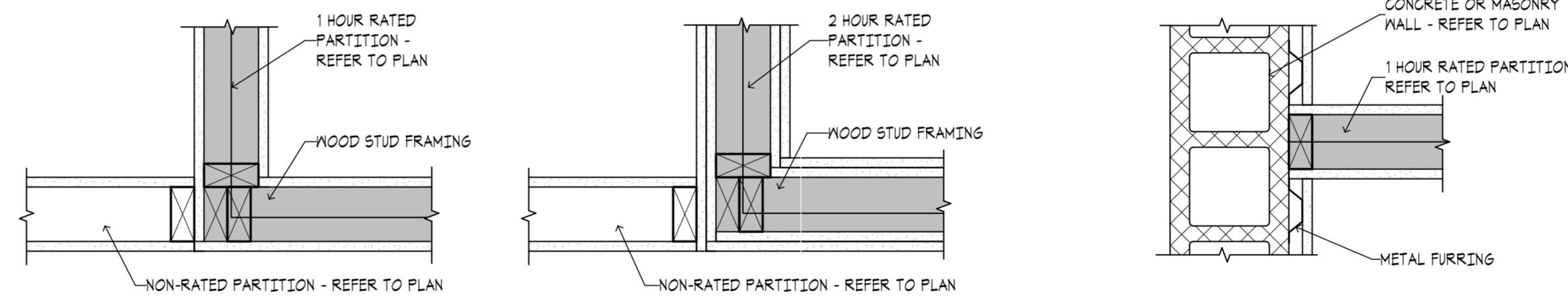
44A 1/2" INTERIOR CORRUGATED VINYL PANEL + 6 MIL VAPOR BARRIER OVER BUILT UP POSTS @ 8'-0" O.C. WITH R-21 UNFACED BATT INSULATION (DAMP SPRAY CELLULOSE INSULATION ALT), 2x6 WOOD GIRTS @ 24" VERTICAL O.C. 1/8" VERTICAL LESTER UNI-RIB METAL SIDING.

44B 5/8" INTERIOR LINER PANEL + 6 MIL VAPOR BARRIER OVER BUILT UP POSTS @ 8'-0" O.C. WITH R-21 UNFACED BATT INSULATION (DAMP SPRAY CELLULOSE INSULATION ALT), 2x6 WOOD GIRTS @ 24" VERTICAL O.C.

44C 5/8" INTERIOR LINER PANEL + 6 MIL VAPOR BARRIER OVER BUILT UP POSTS @ 8'-0" O.C. WITH R-21 UNFACED BATT INSULATION (DAMP SPRAY CELLULOSE INSULATION ALT), 2x6 WOOD GIRTS @ 24" VERTICAL O.C. 1/8" VERTICAL LESTER UNI-RIB METAL SIDING.

**BUILT UP POST WALL + LESTER VERTICAL METAL SIDING (EXTERIOR)**

**FIRE RATED WALL PLAN DETAILS - INTERSECTIONS OF RATED AND NON RATED PARTITIONS**

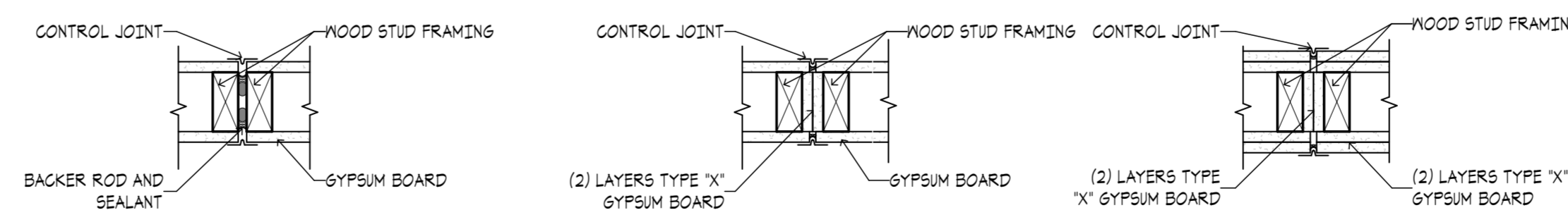


INTERSECTION OF NON-RATED AT 1 HOUR RATED PARTITION

INTERSECTION OF NON-RATED AT 2 HOUR RATED PARTITION - U.L. ASSEMBLY U425 (VERIFY)

INTERSECTION OF CONCRETE/MASONRY AT 1 HOUR RATED PARTITION

**FIRE RATED WALL PLAN DETAILS - GYPSUM BOARD CONTROL JOINTS AT RATED PARTITIONS**



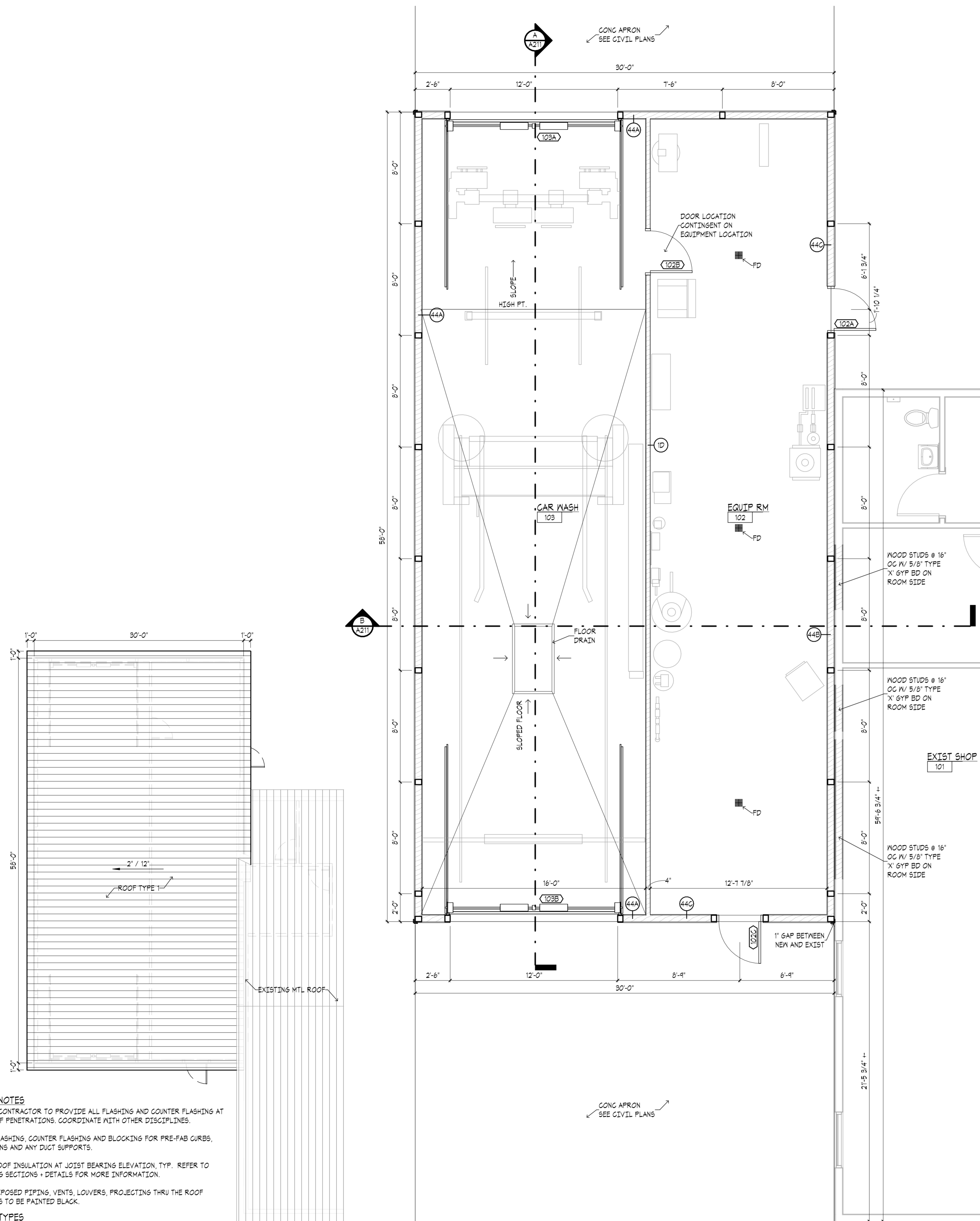
GYPSUM BOARD CONTROL JOINT NON-RATED PARTITION

GYPSUM BOARD CONTROL JOINT 1 HOUR RATED PARTITION

GYPSUM BOARD CONTROL JOINT 2 HOUR RATED PARTITION

**GENERAL PARTITION NOTES**

- REFER TO FLOOR PLAN FOR LOCATION OF SMOKE AND FIRE-RATED PARTITIONS.
- REFER TO SCHEDULES AND DETAILS FOR FINISHES.
- ALL PARTITIONS EXTEND FROM FLOOR TO STRUCTURE/DECK ABOVE UNLESS NOTED OR DETAILED OTHERWISE.
- LINE OF STRUCTURE/DECK AS SHOWN AT THE HEAD CONDITION OF EACH PARTITION TYPE IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS. TERMINATE RATED PARTITIONS AT UNDERSIDE OF STRUCTURAL DECK TO MAINTAIN RATING. PROVIDE APPROPRIATE FRAMING AND GYPSUM BOARD TO OFFSET AROUND STRUCTURE OR OTHER OBSTRUCTIONS, SUCH AS PIPING OR DUCTWORK.
- PARTITIONS MAY TERMINATE AT STRUCTURAL MEMBERS WITH A RATING GREATER THAN OR EQUAL THE PARTITION, PROVIDED THAT RATING IS CONTINUOUS TO STRUCTURAL DECK ABOVE.
- NON-RATED PARTITIONS THAT EXTEND TO STRUCTURE SHALL TERMINATE AT UNDERSIDE OF STRUCTURAL DECK TO MAINTAIN A CONTINUOUS PLAN OF GYPSUM BOARD AS A NOISE, SMOKE OR OTHER TYPE OF BARRIER.
- ALL METAL STUD PARTITIONS EXTENDING TO STRUCTURE ABOVE SHALL TERMINATE WITH DEFLECTION TRACK - SEE TYPICAL DETAILS ON THIS SHEET.
- ALL GYPSUM BOARD PARTITIONS NOT EXTENDING TO THE STRUCTURE MUST BE BRACED.
- U.L. DESIGN NUMBERS REFER TO FIRE RESISTANCE DIRECTORY, UNDERWRITERS LABORATORY, LATEST EDITION.
- MISCELLANEOUS NON-RATED CHASES TO BE 5/8" GYPSUM BOARD ON 3 5/8" METAL STUD (OR 2x4 WOOD STUD) FRAMING @ 16" O.C. UNLESS NOTED OTHERWISE.
- FIRE-RATED PARTITIONS TO HAVE FIRE-STOPPING SEALANTS AT HEAD, SILL JUNCTURE WITH DIS-SIMILAR MATERIALS, ETC. AND AROUND ALL PENETRATIONS AND OPENINGS.
- CONSTRUCT ALL PARTITIONS WITH SOUND ATTENUATION BATTS WITH THE FOLLOWING SOUND BATT THICKNESSES:  
2 1/2" OR LESS STUD - 1 1/2" THICKNESS  
3 1/2" OR LARGER STUD - 3" THICKNESS



**ROOF NOTES**

1. ROOF CONTRACTOR TO PROVIDE ALL FLASHING AND COUNTER FLASHING AT ALL ROOF PENETRATIONS. COORDINATE WITH OTHER DISCIPLINES.
2. ALL FLASHING, COUNTER FLASHING AND BLOCKING FOR PRE-FAB CURBS, MISC. FANS AND ANY DUCT SUPPORTS.
3. ALL ROOF INSULATION AT JOIST BEARING ELEVATION, TYP. REFER TO BUILDING SECTIONS + DETAILS FOR MORE INFORMATION.
4. ALL EXPOSED PIPING, VENTS, LOUVERS, PROJECTING THRU THE ROOF SHINGLES TO BE PAINTED BLACK.

**ROOF TYPES**

TYPE 1: 26 GAUGE 1/8" UNI-RIB STANDING SEAM MTL ROOF ADHEARED DIRECTLY TO 2 X 6 PURLINS @ 24" O.C. HUNG OFF ROOF TRUSSES.

**ROOF KEY**

GRACE ICE AND WATER SHIELD 9'-0" MIN UP ROOF FROM INSIDE OF EXT MALL

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

**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL DEMOLITION NOTES**

1. THE OWNER RESERVES THE RIGHT TO REMOVE ANY ITEM FROM THE PROJECT PRIOR TO COMMENCEMENT OF CONTRACTED DEMOLITION WORK.
2. CONTRACTORS ARE REQUIRED TO INSPECT/REVIEW THE EXISTING BUILDING PRIOR TO RELATIVE DEMOLITION WORK. UNLESS NOTED OTHERWISE, REMOVAL OF ANY WALL, FLOOR OR CEILING INCLUDES ALL GENERAL MECHANICAL AND ELECTRICAL ITEMS WHICH ARE A PART OF, OR ATTACHED TO THAT WALL, FLOOR OR CEILING.
3. VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING ANY MATERIALS.
4. ALL EXISTING CONDITIONS SHOULD BE FIELD VERIFIED BEFORE WORK BEGINS.
5. AT LOCATIONS OF REMOVED WALLS, ALL ASSOCIATED ITEMS ATTACHED TO THE WALL ARE TO BE REMOVED. SUCH AS, DOORS, WINDOWS, FRAMES, MARKERBOARDS, TACKBOARDS, ETC.
6. PATCH FLOORS, WALLS AND GYPSUM BOARD AT UNDERSIDE OF ROOF STRUCTURE DAMAGED DURING CONSTRUCTION AND DEMOLITION AS REQUIRED. FINISH TO MATCH EXISTING.
7. PATCH AND REPAIR DAMAGED OR ALTERED EXISTING CONSTRUCTION TO MATCH EXISTING UNLESS OTHERWISE NOTED. FINISH (TO BE DETERMINED BY BUILDING OWNER) AFFECTED EXISTING SURFACES CORNER TO CORNER TO MATCH EXISTING.
8. ACCOMMODATE NEW CONSTRUCTION IF NOT INDICATED.
9. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION NOTES.
10. CARE MUST BE GIVEN TO PROTECT AND MAINTAIN EXISTING CONDUIT, DRAINS, PIPES AND WIRES THAT ARE TO REMAIN.
11. ALL CUTTING AND PATCHING SHALL BE BY THE TRADE INVOLVED IN THE WORK.
12. ALL EXISTING ROOF TOP PENETRATIONS BEING REMOVED REQUIRE ROOF PATCHING.
13. ALL TEMPORARY CONSTRUCTION AND DUST PARTITIONS ARE TO BE 2X4 STUDS AT 24 INCHES O.C. WITH 6 MILL VISQUEEN FLOOR TO CEILING.
14. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE PREMISES AND EXISTING CONDITIONS TO COORDINATE NEW INSTALLATIONS.
15. CONTRACTOR SHALL VERIFY ALL EXISTING JOB SITE CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR THE SAME. ADVISE CONSTRUCTION MANAGER OF ANY AND ALL DISCREPANCIES.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN CLARIFICATION OF ANY DISCREPANCIES FOUND DURING SITE EXAMINATION AND/OR ON DRAWINGS PRIOR TO BID DATE.

**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE RULES AND REGULATIONS OF LOCAL TOWNSHIP, THE STATE OF MICHIGAN, AND ALL OTHER AUTHORITIES HAVING JURISDICTION. THIS PROJECT SHALL FULLY COMPLY WITH MICHIGAN BUILDING CODE INCORPORATING THE ADOPTED EDITION OF THE MICHIGAN BUILDING CODE.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE AIA GENERAL CONDITIONS FOR CONSTRUCTION.
3. SHOULD THE GENERAL CONTRACTOR (G.C.) DISCOVER ANY DISCREPANCIES OR AMBIGUITIES OF INFORMATION THAT CAUSE DOUBT AS TO THE MEANING OF ANY DRAWING OR SPECIFICATION, THE G.C. SHALL NOTIFY THE ARCHITECT, AND REQUEST CLARIFICATION PRIOR TO PROCEEDING.
4. THE G.C. WILL BE RESPONSIBLE FOR OBTAINING ALL PERMITS CERTIFICATES, GUARANTEES, ETC., AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION, AND DELIVER THESE TO THE OWNER UPON COMPLETION OF THE WORK. THE OWNER SHALL PAY FOR ALL BUILDING PERMITS. THE G.C. SHALL ARRANGE AND COORDINATE INSPECTION OF ALL WORK BY BUILDING OFFICIALS. HE SHALL BE HELD RESPONSIBLE FOR ANY VIOLATIONS ARISING FROM LACK OF PERMIT, CONDEMNED WORK, OR FINES. EACH TRADE OR CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED LICENSES AND CERTIFICATIONS NECESSARY TO WORK ON THIS PROJECT.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR AND MATERIALS AND MAKE GOOD OF ANY DEFECTS THEREIN WHICH ARE DISCOVERED OR OCCUR WITHIN ONE YEAR AFTER THE COMPLETION OF THE PROJECT. HE SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY MATERIAL OF EQUIPMENT CONSIDERED PART OF THE CONTRACT AND UNDER GUARANTEE PERIODS SPECIFICALLY NOTED BY THE MANUFACTURER THEREOF.
6. ALL WORKMEN EMPLOYED BY THE G.C. OR ANY SUBCONTRACTORS SHALL BE SKILLED AT THE WORK TO WHICH HE IS ASSIGNED. ALL TRADES MUST PROVIDE EVIDENCE OF WORKMAN'S COMPENSATIONS AND LIABILITY INSURANCE IN FORCE.
7. ALL MATERIAL STORED ON THE SITE SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE FROM OTHER WORK IN PROGRESS. REPAIR OF COMPLETED WORK DAMAGED IN THE COURSE OF THE PROJECT WILL BE THE G.C.'S RESPONSIBILITY AT NO COST TO THE OWNER.
8. THE PROJECT SITE IS TO BE KEPT REASONABLY CLEAN AT ALL TIMES. LOOSE TRASH IS TO BE CONTAINED AND EMPTIED OFF THE SITE WHEN FULL. PAINT SPOTS AND EXCESS CAULKING ARE TO BE REMOVED.
9. UPON COMPLETION OF THE WORK, THE G.C. IS RESPONSIBLE FOR THE FINAL ADJUSTMENTS OR REPAIRS, DOORS, HARDWARE, DEVICES, AND THOSE ITEMS DEEMED BY THE ARCHITECT TO MAKE THE PROJECT HABITABLE.
10. THOSE ITEMS NOT NOTED, BUT IMPLIED AS NECESSARY FOR THE COMPLETION OF THE WORK ARE TO BE PART THEREOF. THE G.C. SHALL VERIFY ALL DIMENSIONS, QUANTITIES, AND ALL DETAILS IN THE FIELD.
11. APPROVAL OF MINOR CHANGES OR CLARIFICATION TO PLANS MAY BE ACCOMPLISHED BY ISSUANCE OF REVISED PLANS, PARTIAL SKETCH, OR INITIALING AND DATING OF CHANGE BY THE ARCHITECT ON THE EXISTING PLANS.
12. THE ARCHITECT AND/OR DESIGNER SHALL HAVE NO CONTROL OVER AND SHALL HAVE NO RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES.
13. THE ARCHITECT AND/OR DESIGNER HAS NO RESPONSIBILITY FOR ANY ACTIONS OR OMISSIONS OF THE G.C. OR HIS SUBCONTRACTORS, OR THE FAILURE OF THEM TO PERFORM WORK ACCORDING TO THE CONTRACT DOCUMENTS.
14. NO CHANGE BY THE ARCHITECT WILL BE MADE BY THE G.C. UNLESS AUTHORIZED BY AN AIA CHANGE ORDER, AND SIGNED BY ALL PARTIES, PRIOR TO AFFECTING THE CHANGE.
15. UNLESS OTHERWISE NOTED, ALL EXPOSED ELECTRICAL, MECHANICAL, PLUMBING AND COMMUNICATIONS LINES, DUCTS, PIPES, UNITS AND DEVICES ARE TO BE PRIMED AND PAINTED THE SAME COLOR AS THE WALL AND/OR CEILING SURFACE ON WHICH THEY RUN, OR ARE TO BE LOCATED ON, IN ORDER TO BLEND IN. TENANT REQUIREMENTS WILL DICTATE AND MAY REQUIRE DUCTS, PIPES, ETC. ARE TO REMAIN UN-PRIMED. CONSULT TENANT REQUIREMENTS PRIOR TO PRIMING.
16. ALL NOTES ON ALL DRAWINGS OF THE ARCHITECT, ENGINEER, AND DESIGNER'S DRAWINGS AND PLANS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

**Seeyle Car Wash**  
3802 Stadium Dr, Kalamazoo, MI 49008

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06/27/2024

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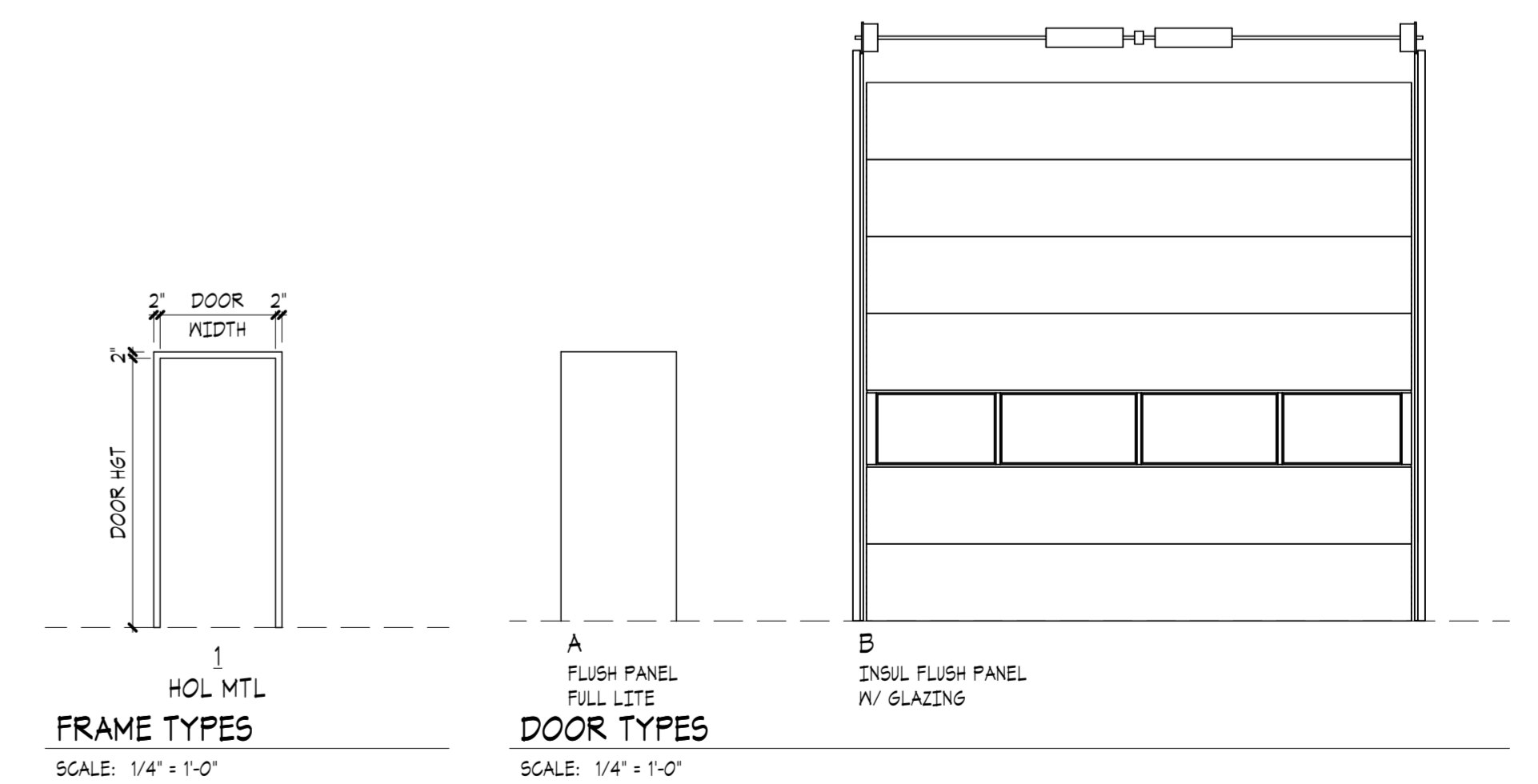
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**A101**  
FLOOR PLAN + ROOF PLAN  
+ DEMO PLAN

ROOM FINISH SCHEDULE									
NUMBER	ROOM		FLOOR FINISH	BASE FINISH	WALL		CEILING		COMMENTS
	NAME				MATERIAL	FINISH	MATERIAL	FINISH	
MAIN LEVEL									
101	EXIST	SHOP	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
102		EQUIP RM	CONCRETE		ND	WP-2	ND	MTL	14'-0"
103		CAR WASH	CONCRETE		MTL	WP-1	ND	MTL	14'-0"
MAIN LEVEL									

EXTERIOR MATERIAL SCHEDULE					
TAG #	MATERIAL	MANUFACTURER/PRODUCT NO.	COLOR/COLOR NO	DESCRIPTION	REMARKS
FIBER CEMENT BOARD: (10-19)					
10	HORIZONTAL LAP SIDING				
11	TRIM				
EXTERIOR INSULATION FINISH SYSTEM: (20-29)					
20	EIFS				
21	EIFS				
22	EIFS				
ROOFING: (30-39)					
30	METAL ROOFING	LESTER	BLACK 108		
WINDOWS AND DOORS: SEE SHEET ALSO FOR MORE INFORMATION: (40-49)					
40	ALUMINUM STOREFRONT	TUBELIGHT 14000	WHITE		
41	INSULATED GLAZING				
CANOPIES AND AWNINGS: (50-59)					
50	CANOPIES				
51	AWNINGS				
METALS: (60-69)					
60	METAL SIDING	LESTER	DARK BRONZE, EARTH BROWN CHARCOAL	WEATHERX SILICONIZED POLYESTER METAL SIDING	
61	METAL COPING				
EXAMPLE OF TAG # INDICATED ON EXTERIOR ELEVATIONS IN BOXES					

DOOR SCHEDULE														
DOOR NUMBER	DOOR SIZE			DOOR		FRAME		HARDWARE GROUP	FIRE RATING	DETAILS				COMMENTS
	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	MATERIAL	TYPE			JAMB	JAMB	HEAD	SILL	
MAIN LEVEL														
101A	16'-0"	10'-0"	2"											
101B	10'-0"	10'-0"	2"											
101C	12'-0"	12'-0"	2"											
101D	10'-0"	10'-0"	2"											
101E	3'-0"	6'-8"	1 3/4"			ND								
101F	3'-0"	6'-8"	1 3/4"			ND								
101G	4'-0"	4'-0"	2"											
101H	3'-0"	6'-8"	1 3/4"			ND								
101I	3'-0"	6'-8"	1 3/4"			ND								
101J	3'-0"	6'-8"	1 3/4"			ND								
101K	3'-0"	7'-0"	1 3/4"			ND								
101L	3'-0"	7'-0"	1 3/4"			ND								
102A	3'-0"	7'-0"	1 3/4"		A	HM		1						
102B	3'-0"	7'-0"	1 3/4"	ALUM-FBS	A	ALUM		1						
102C	3'-0"	7'-0"	1 3/4"	HM	A	HM		1						
103A	12'-0"	10'-0"	2"											
103B	12'-0"	10'-0"	2"											



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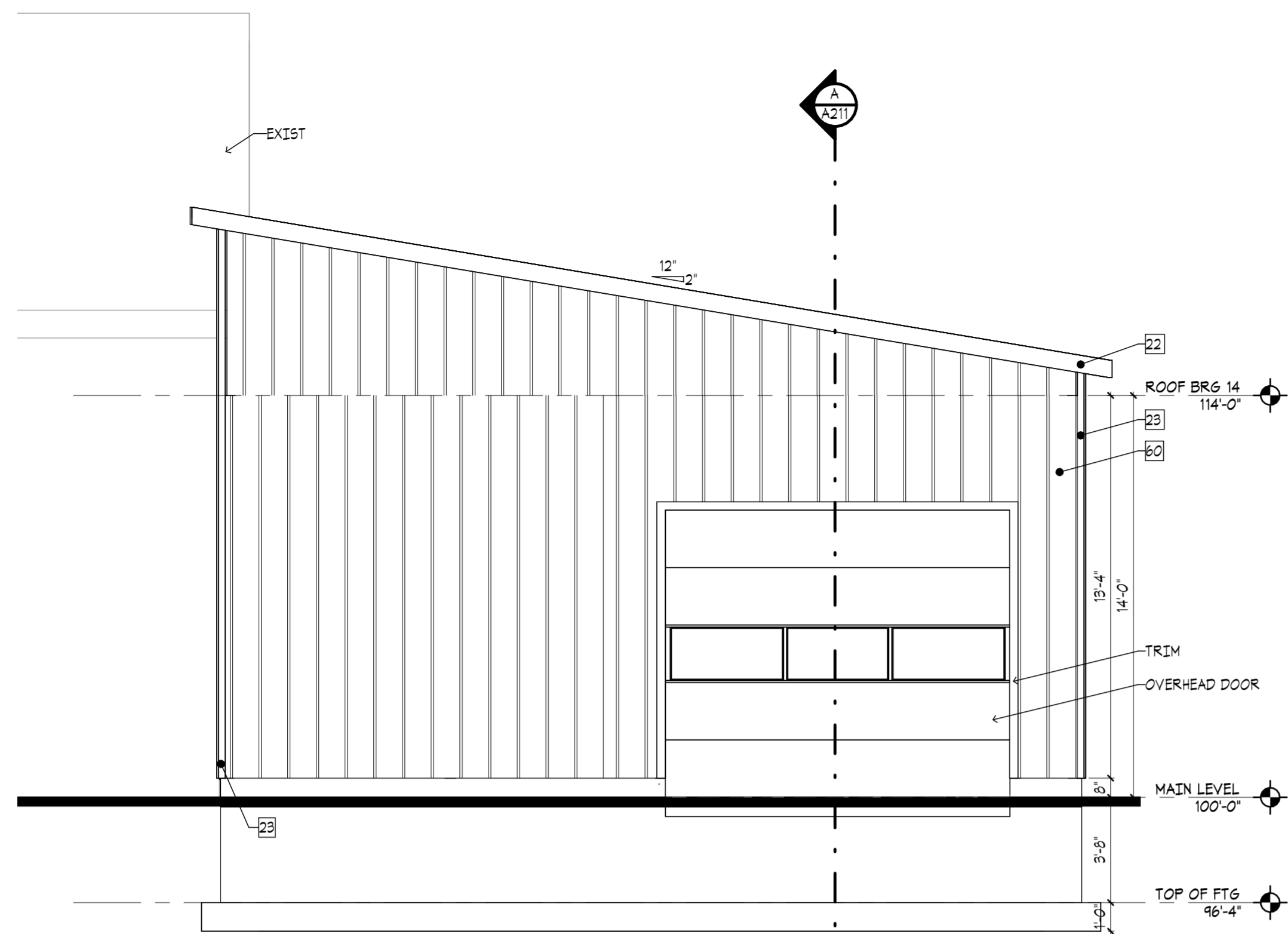
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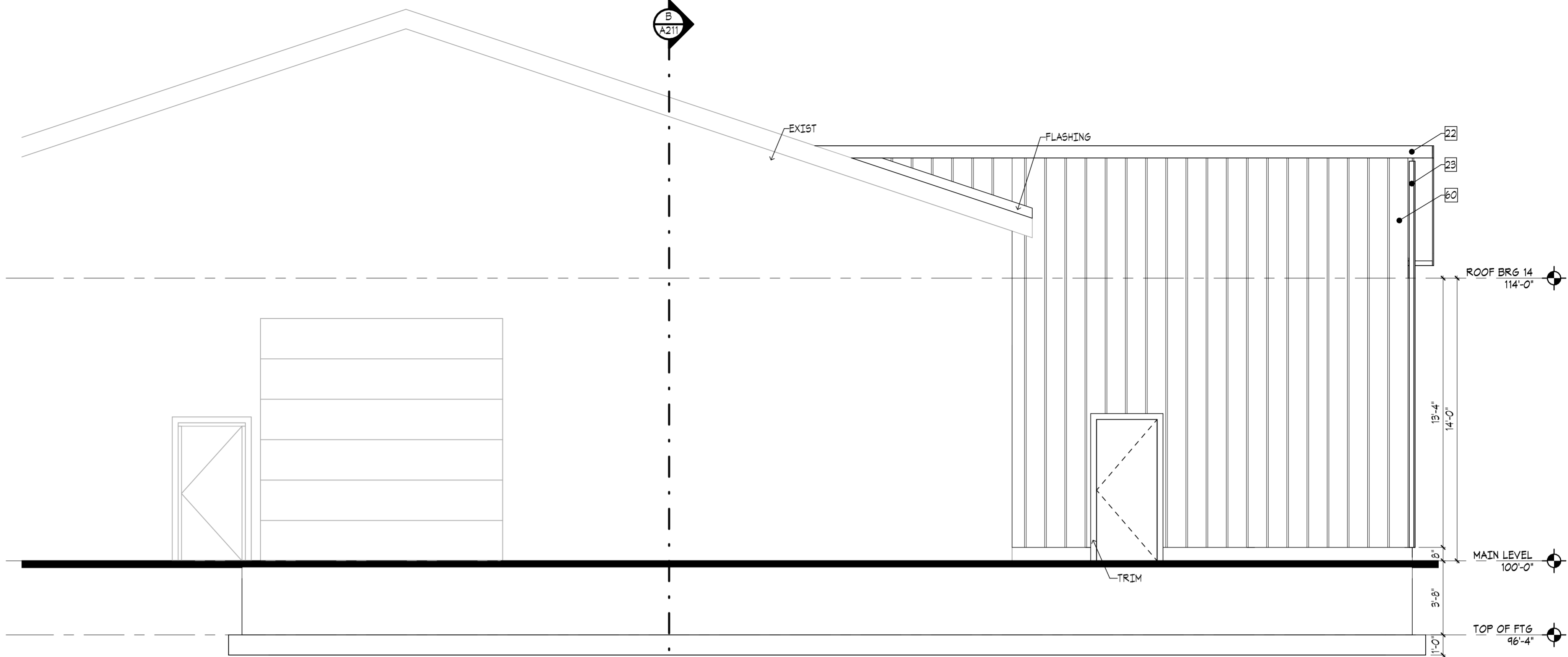
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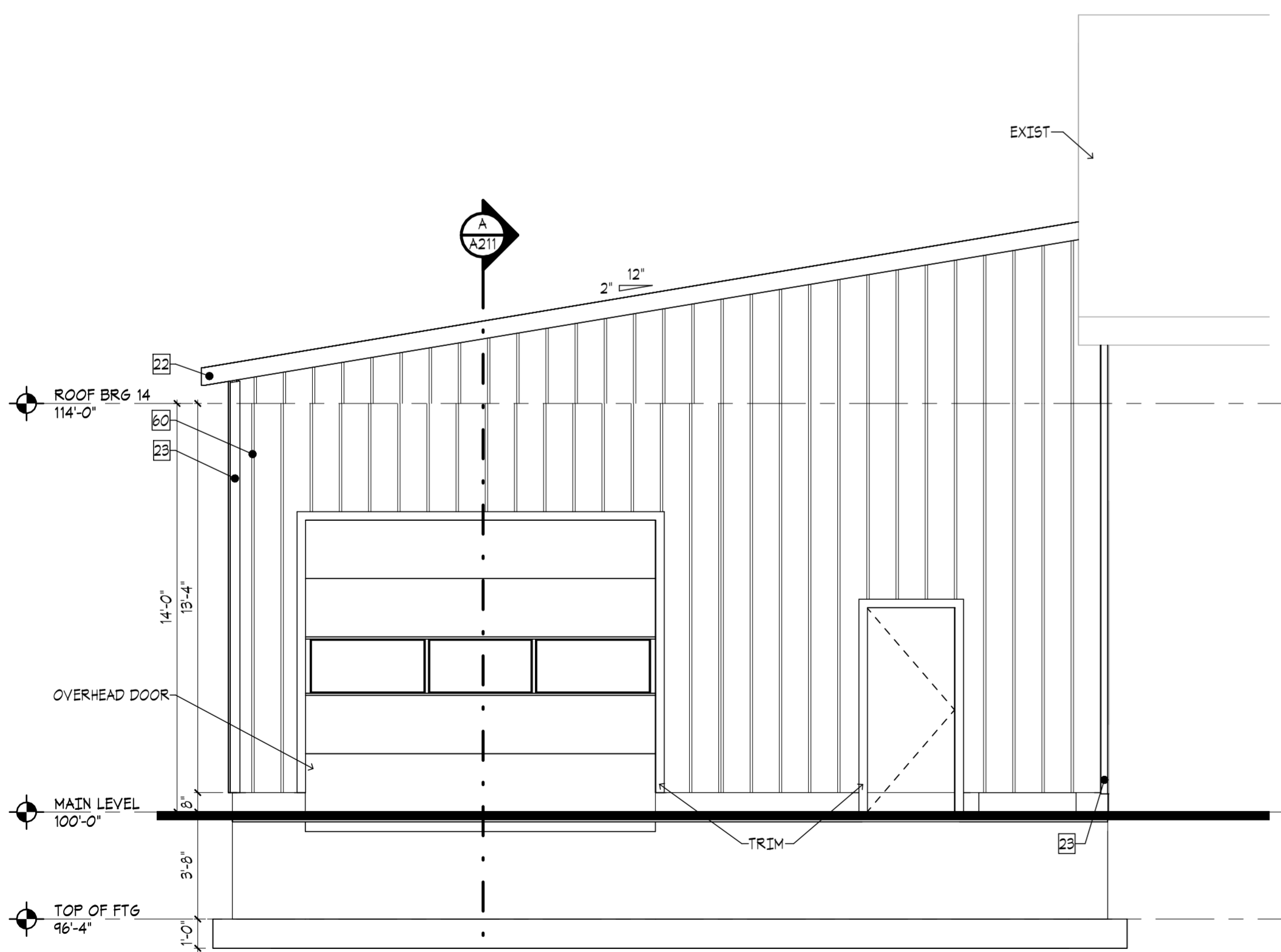
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 SCHEDULES AND DETAILS



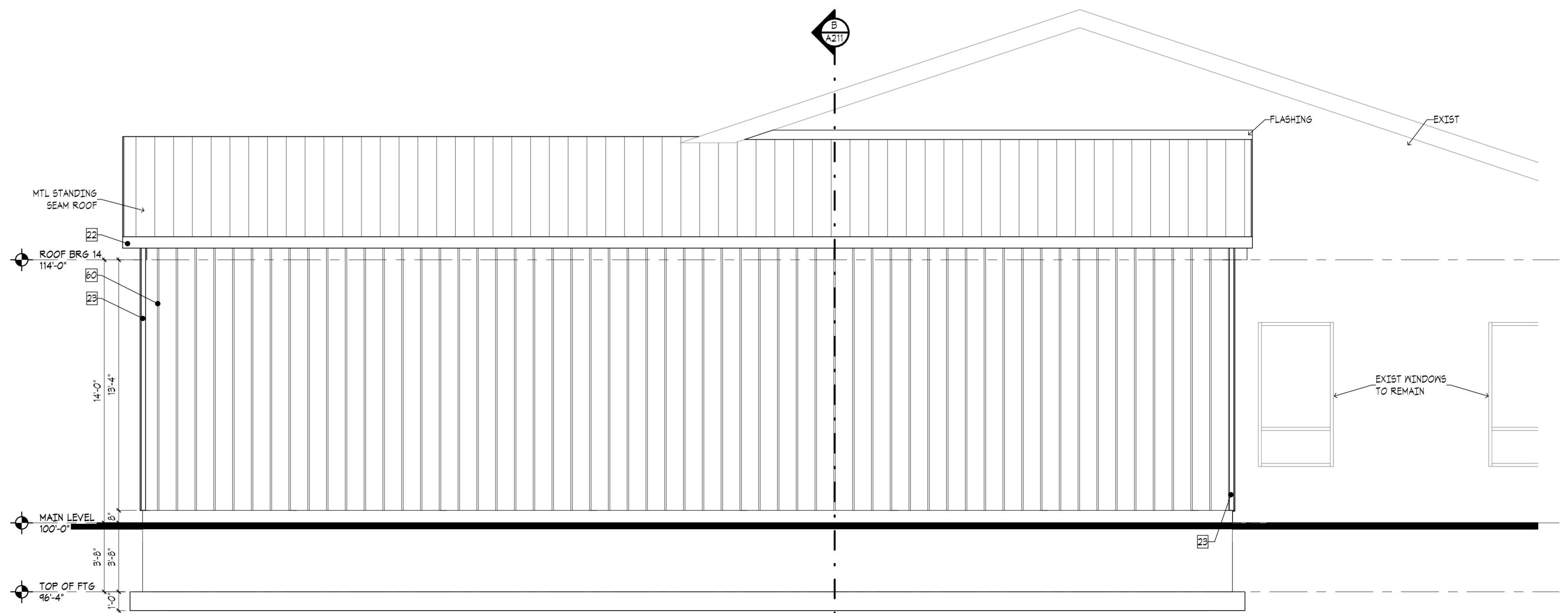
**NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

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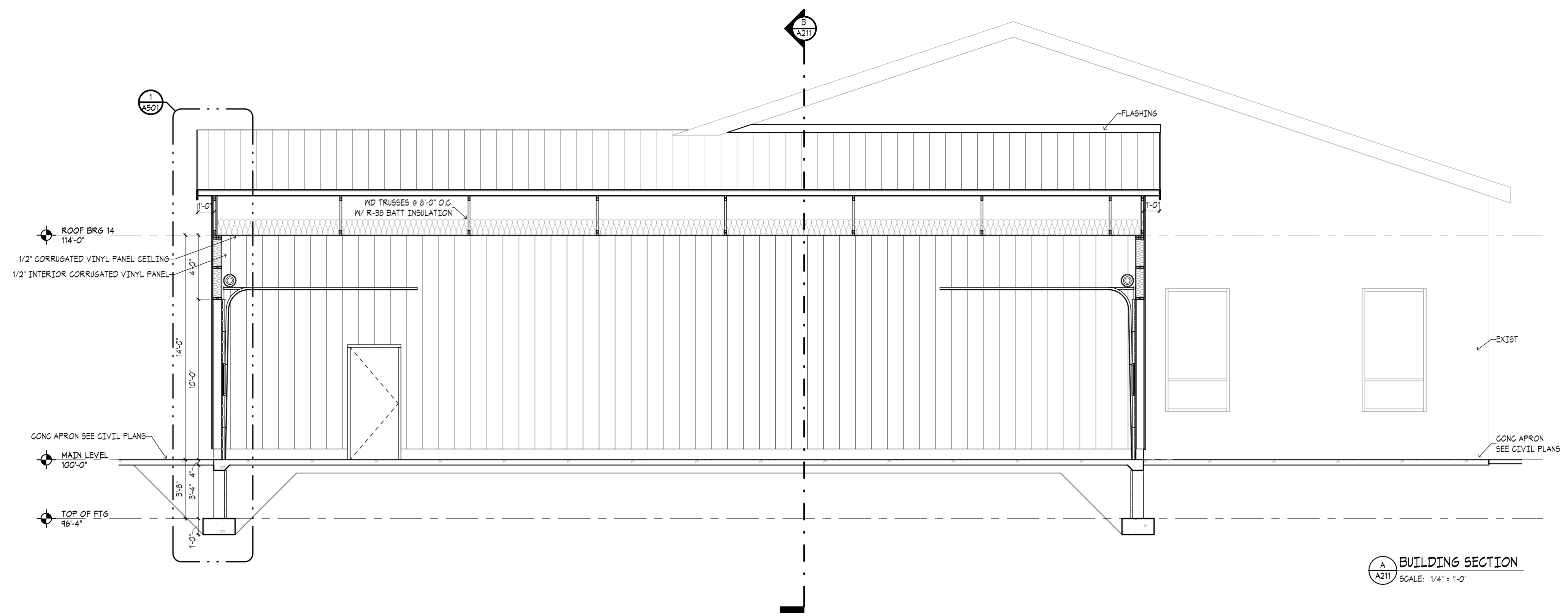
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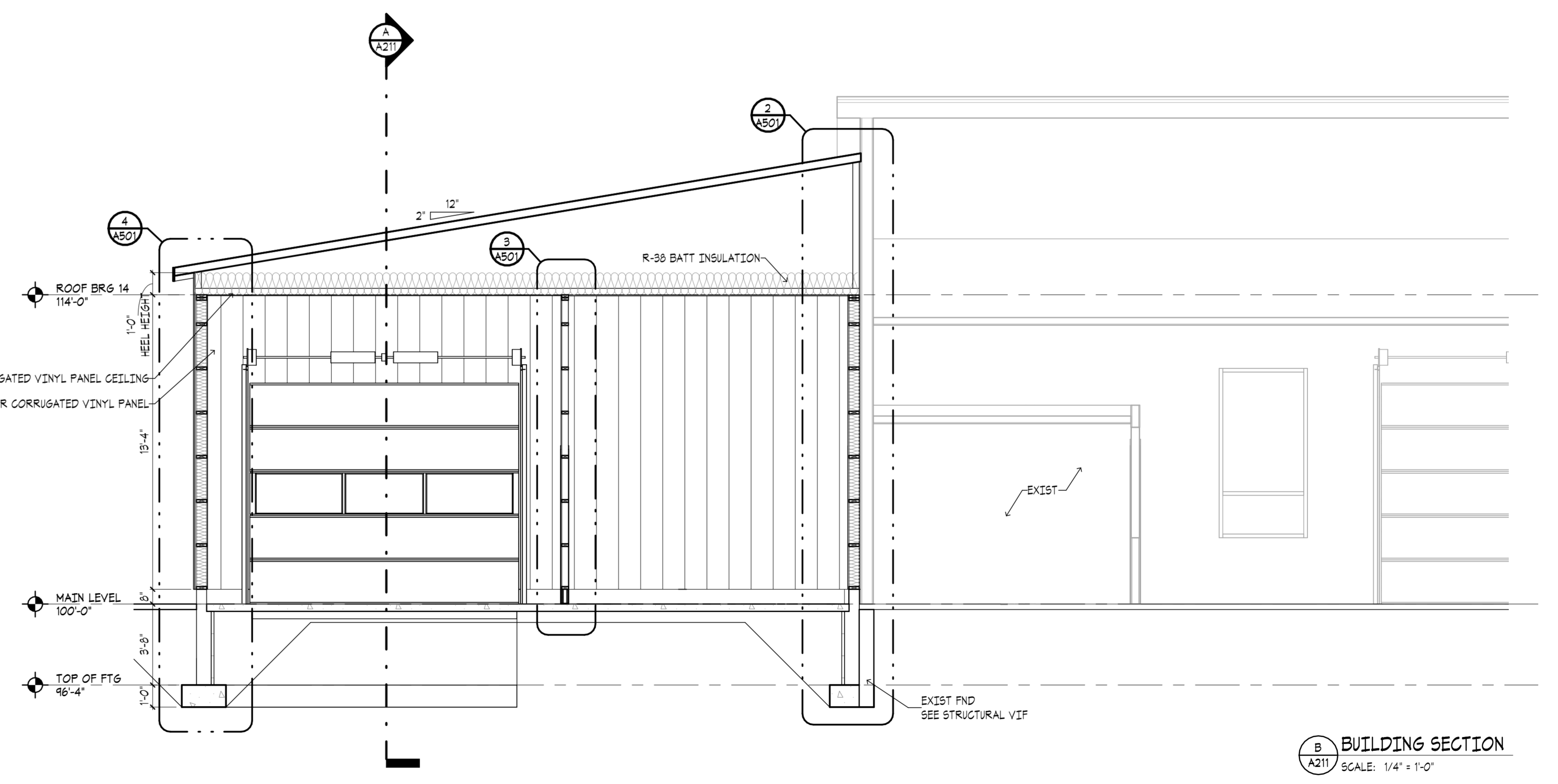
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**A201**  
EXTERIOR ELEVATIONS





**A**  
A211 BUILDING SECTION  
SCALE: 1/4" = 1'-0"



**B**  
A211 BUILDING SECTION  
SCALE: 1/4" = 1'-0"

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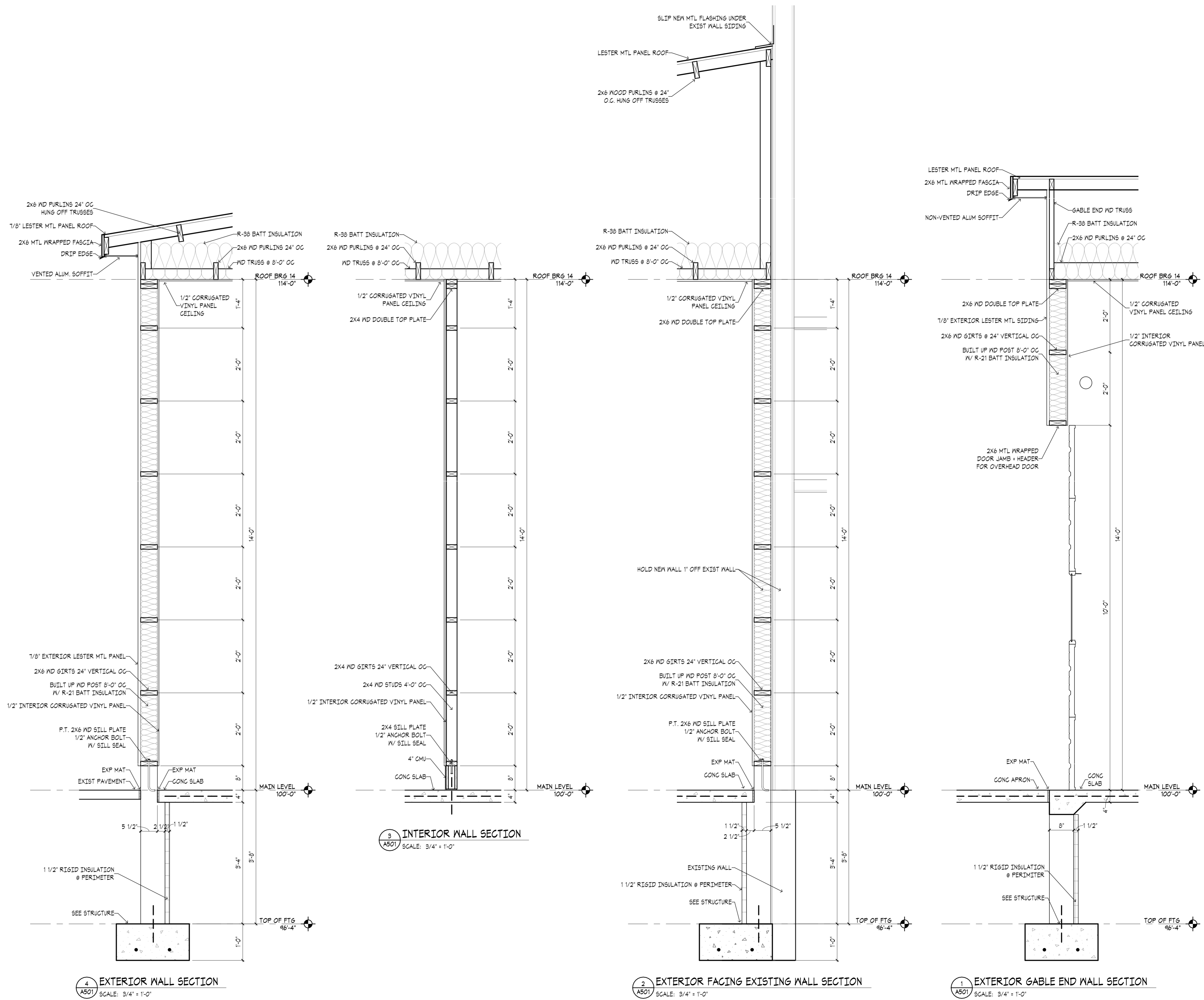
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**A211**  
BUILDING SECTIONS



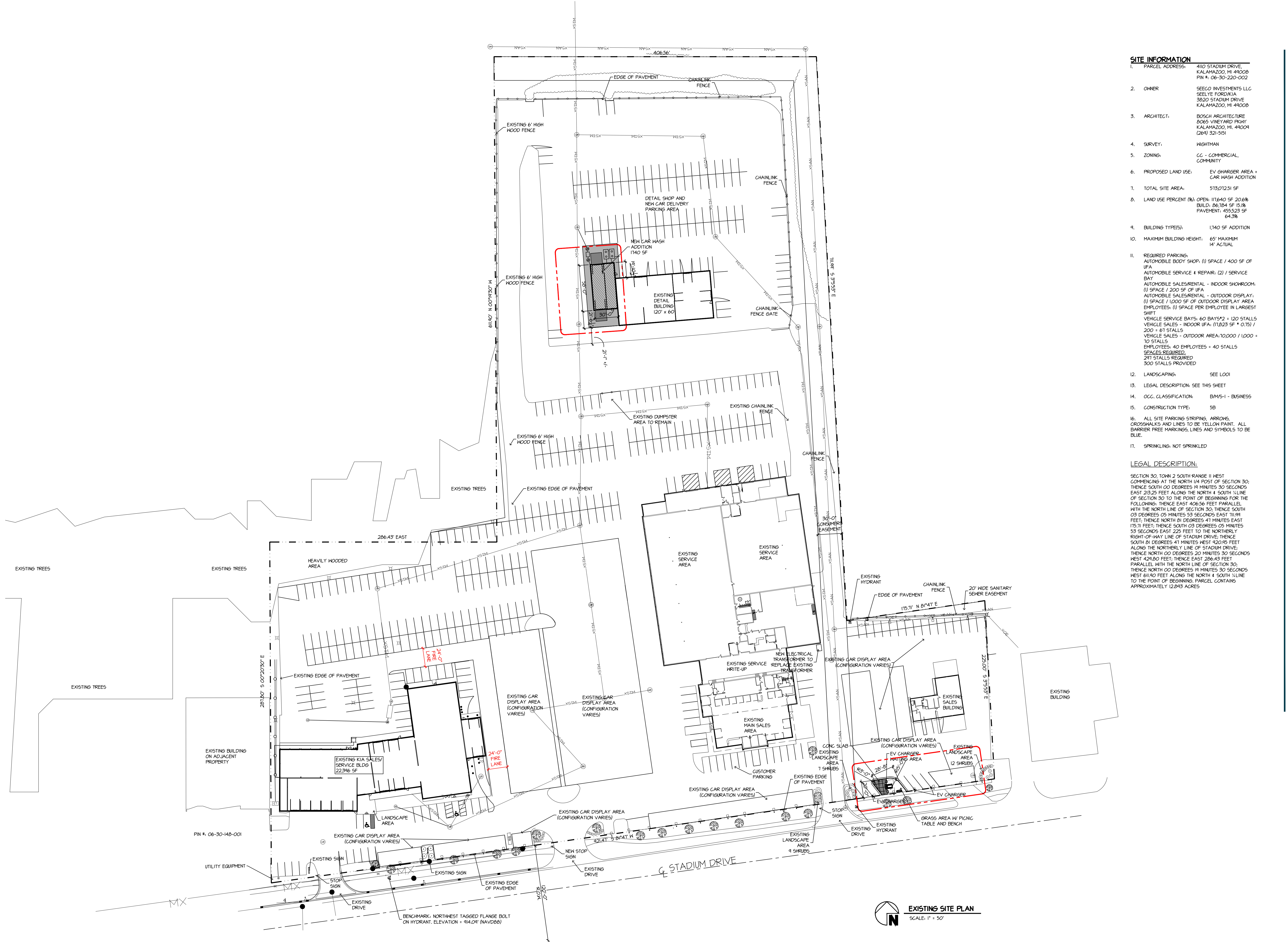
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 Grand Rapids, MI 49508  
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**A501**  
 WALL DETAILS



SITE INFORMATION	
1. PARCEL ADDRESS:	4110 STADIUM DRIVE, KALAMAZOO, MI 49008 PIN # 06-30-220-002
2. OWNER:	SEECO INVESTMENTS LLC SEELYE FORD/KIA 3820 STADIUM DRIVE KALAMAZOO, MI 49008
3. ARCHITECT:	BOSCH ARCHITECTURE 8085 VINEYARD FRONT KALAMAZOO, MI 49008 (268) 351-5151
4. SURVEY:	WRIGHTMAN
5. ZONING:	CC - COMMERCIAL, COMMUNITY
6. PROPOSED LAND USE:	EV CHARGER AREA + CAR WASH ADDITION
7. TOTAL SITE AREA:	513,072.51 SF
8. LAND USE PERCENT (%):	OPEN: 17,840 SF 20.6% BLDG: 86,784 SF 15.8% PAVEMENT: 455,523 SF 64.3%
9. BUILDING TYPE(S):	1,740 SF ADDITION
10. MAXIMUM BUILDING HEIGHT:	65' MAXIMUM 14' ACTUAL
11. REQUIRED PARKING:	AUTOMOBILE BODY SHOP: (1) SPACE / 400 SF OF UFA AUTOMOBILE SERVICE & REPAIR: (2) / SERVICE BAY AUTOMOBILE SALES/RENTAL - INDOOR SHOWROOM: (1) SPACE / 200 SF OF UFA AUTOMOBILE SALES/RENTAL - OUTDOOR DISPLAY: (1) SPACE / 1,000 SF OF OUTDOOR DISPLAY AREA EMPLOYEES: (1) SPACE PER EMPLOYEE IN LARGEST SHIFT VEHICLE SERVICE BAYS: 60 BAYS * 2 = 120 STALLS VEHICLE SALES - INDOOR UFA: (1) 1,823 SF * 0.15 / 200 = 67 STALLS VEHICLE SALES - OUTDOOR AREA: 10,000 / 1,000 = 10 STALLS EMPLOYEES: 40 EMPLOYEES = 40 STALLS SPACES REQUIRED: 287 STALLS REQUIRED 300 STALLS PROVIDED
12. LANDSCAPING:	SEE LOOI
13. LEGAL DESCRIPTION:	SEE THIS SHEET
14. OCC. CLASSIFICATION:	BMV-5 - BUSINESS
15. CONSTRUCTION TYPE:	5B
16. ALL SITE PARKING STRIPING, ARROWS, CROSSWALKS AND LINES TO BE YELLOW PAINT. ALL BARRIER FREE MARKINGS, LINES AND SYMBOLS TO BE BLUE.	
17. SPRINKLING:	NOT SPRINKLED

**LEGAL DESCRIPTION:**

SECTION 30, TOWN 2 SOUTH RANGE 11 WEST COMMENCING AT THE NORTH 1/4 POST OF SECTION 30; THENCE SOUTH 00 DEGREES 14 MINUTES 30 SECONDS EAST 213.25 FEET ALONG THE NORTH 4 SOUTH 1/4 LINE OF SECTION 30 TO THE POINT OF BEGINNING FOR THE FOLLOWING: THENCE EAST 406.56 FEET PARALLEL WITH THE NORTH LINE OF SECTION 30; THENCE SOUTH 03 DEGREES 05 MINUTES 53 SECONDS EAST 711.84 FEET; THENCE NORTH 81 DEGREES 41 MINUTES EAST 175.71 FEET; THENCE SOUTH 03 DEGREES 05 MINUTES 53 SECONDS EAST 225 FEET TO THE NORTHERLY RIGHT-OF-WAY LINE OF STADIUM DRIVE; THENCE SOUTH 81 DEGREES 41 MINUTES WEST 429.85 FEET PARALLEL WITH THE NORTH LINE OF SECTION 30; THENCE NORTH 00 DEGREES 14 MINUTES 30 SECONDS WEST 429.85 FEET; THENCE EAST 286.43 FEET PARALLEL WITH THE NORTH LINE OF SECTION 30; THENCE NORTH 00 DEGREES 14 MINUTES 30 SECONDS WEST 611.40 FEET ALONG THE NORTH 4 SOUTH 1/4 LINE TO THE POINT OF BEGINNING. PARCEL CONTAINS APPROXIMATELY 12.843 ACRES.

# Seelye Car Wash + EV Charger Area

4110 Stadium Drive, Kalamazoo, Michigan 49008

2024-04-19 FOR PRE-SITE REVIEW  
2024-07-09 SITE PLAN REVIEW/ISSUING

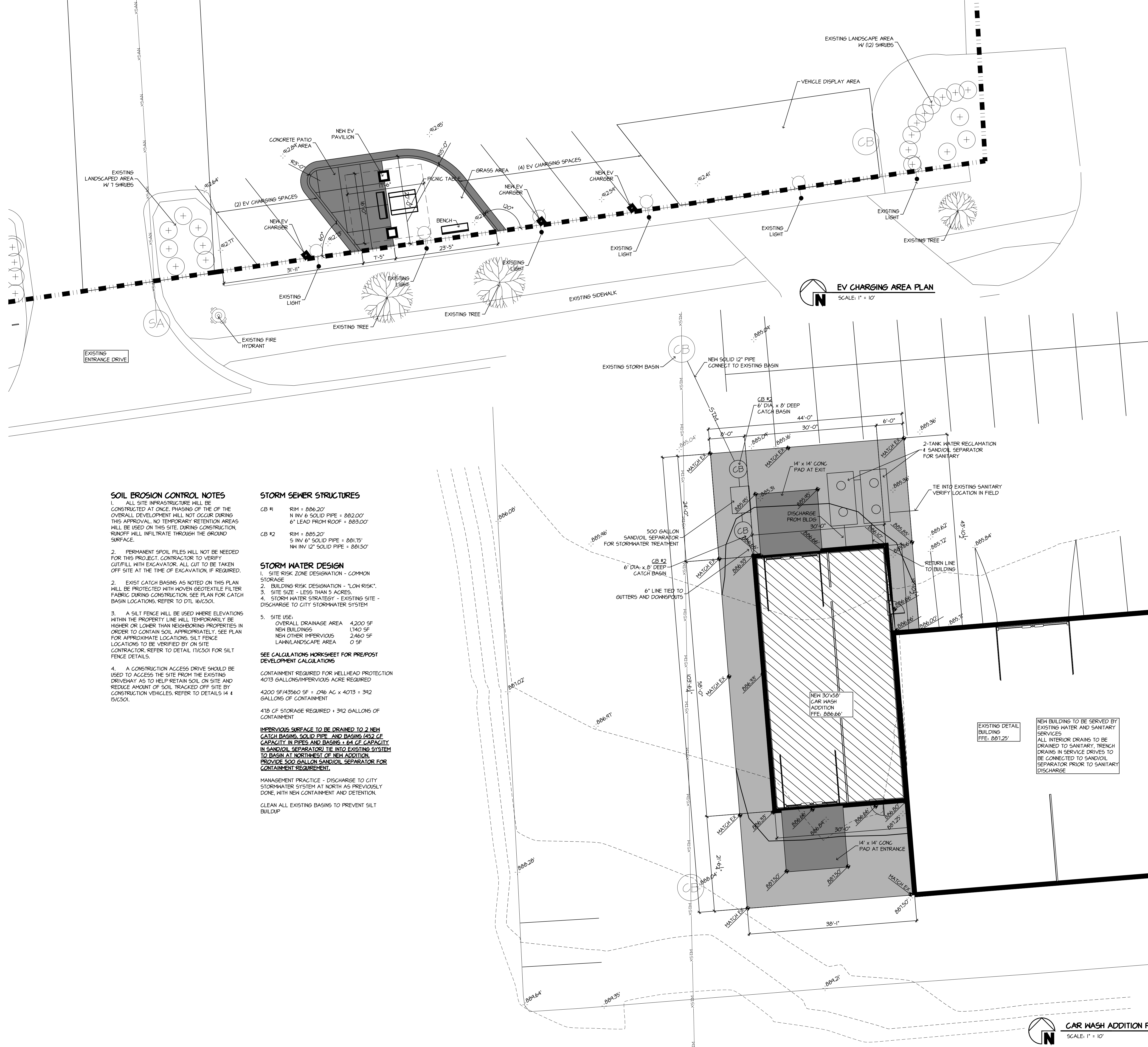
ISSUED



PIN: 23057  
PIN: 23557001/049

8085 Vineyard Front  
Kalamazoo, MI 49008  
(268) 351-5151  
Boscharch.com

**EXISTING SITE PLAN**  
SCALE: 1" = 50'



**SOIL EROSION CONTROL NOTES**

- ALL SITE INFRASTRUCTURE WILL BE CONSTRUCTED AT ONCE. PHASING OF THE OVERALL DEVELOPMENT WILL NOT OCCUR DURING THIS APPROVAL. NO TEMPORARY RETENTION AREAS WILL BE USED ON THIS SITE. DURING CONSTRUCTION, RUNOFF WILL INFILTRATE THROUGH THE GROUND SURFACE.
- PERMANENT SPOIL PILES WILL NOT BE NEEDED FOR THIS PROJECT. CONTRACTOR TO VERIFY CUT/FILL WITH EXCAVATOR. ALL CUT TO BE TAKEN OFF SITE AT THE TIME OF EXCAVATION, IF REQUIRED.
- EXIST CATCH BASINS AS NOTED ON THIS PLAN WILL BE PROTECTED WITH WOVEN GEOTEXTILE FILTER FABRIC DURING CONSTRUCTION. SEE PLAN FOR CATCH BASIN LOCATIONS. REFER TO DTL 16/C501.
- A SILT FENCE WILL BE USED WHERE ELEVATIONS WITHIN THE PROPERTY LINE WILL TEMPORARILY BE HIGHER OR LOWER THAN NEIGHBORING PROPERTIES IN ORDER TO CONTAIN SOIL APPROPRIATELY. SEE PLAN FOR APPROXIMATE LOCATIONS. SILT FENCE LOCATIONS TO BE VERIFIED BY ON SITE CONTRACTOR. REFER TO DETAIL 17/C501 FOR SILT FENCE DETAILS.
- A CONSTRUCTION ACCESS DRIVE SHOULD BE USED TO ACCESS THE SITE FROM THE EXISTING DRIVEWAY AS TO HELP RETAIN SOIL ON SITE AND REDUCE AMOUNT OF SOIL TRACKED OFF SITE BY CONSTRUCTION VEHICLES. REFER TO DETAILS 14 & 15/C501.

**STORM SEWER STRUCTURES**

- CB #1 RIM = 886.20' N INV 6" SOLID PIPE = 882.00' 6' LEAD FROM ROOF = 883.00'
- CB #2 RIM = 885.20' 5" INV 6" SOLID PIPE = 881.75' 11" INV 12" SOLID PIPE = 881.50'

**STORM WATER DESIGN**

- SITE RISK ZONE DESIGNATION - COMMON STORAGE
- BUILDING RISK DESIGNATION - 'LOW RISK'
- SITE SIZE - LESS THAN 5 ACRES.
- STORM WATER STRATEGY - EXISTING SITE - DISCHARGE TO CITY STORMWATER SYSTEM
- SITE USE:
  - OVERALL DRAINAGE AREA 4,200 SF
  - NEW BUILDINGS 1,140 SF
  - NEW OTHER IMPERVIOUS 2,460 SF
  - LANDSCAPE AREA 0 SF

**SEE CALCULATIONS WORKSHEET FOR PRE/POST DEVELOPMENT CALCULATIONS**

CONTAINMENT REQUIRED FOR WELLHEAD PROTECTION 4073 GALLONS/IMPERVIOUS ACRE REQUIRED

4200 SF/43560 SF = .96 AC x 4073 = 392 GALLONS OF CONTAINMENT

478 CF STORAGE REQUIRED = 392 GALLONS OF CONTAINMENT

**IMPERVIOUS SURFACE TO BE DRAINED TO 2 NEW CATCH BASINS, SOLID PIPE, AND BASIN (50% OF CAPACITY IN PIPES AND BASINS + 50% CAPACITY IN SAND/OIL SEPARATOR) TIE INTO EXISTING SYSTEM TO BASIN AT NORTHWEST OF NEW ADDITION. PROVIDE 500 GALLON SAND/OIL SEPARATOR FOR CONTAINMENT REQUIREMENT.**

MANAGEMENT PRACTICE - DISCHARGE TO CITY STORMWATER SYSTEM AT NORTH AS PREVIOUSLY DONE, WITH NEW CONTAINMENT AND DETENTION.

CLEAN ALL EXISTING BASINS TO PREVENT SILT BUILDUP

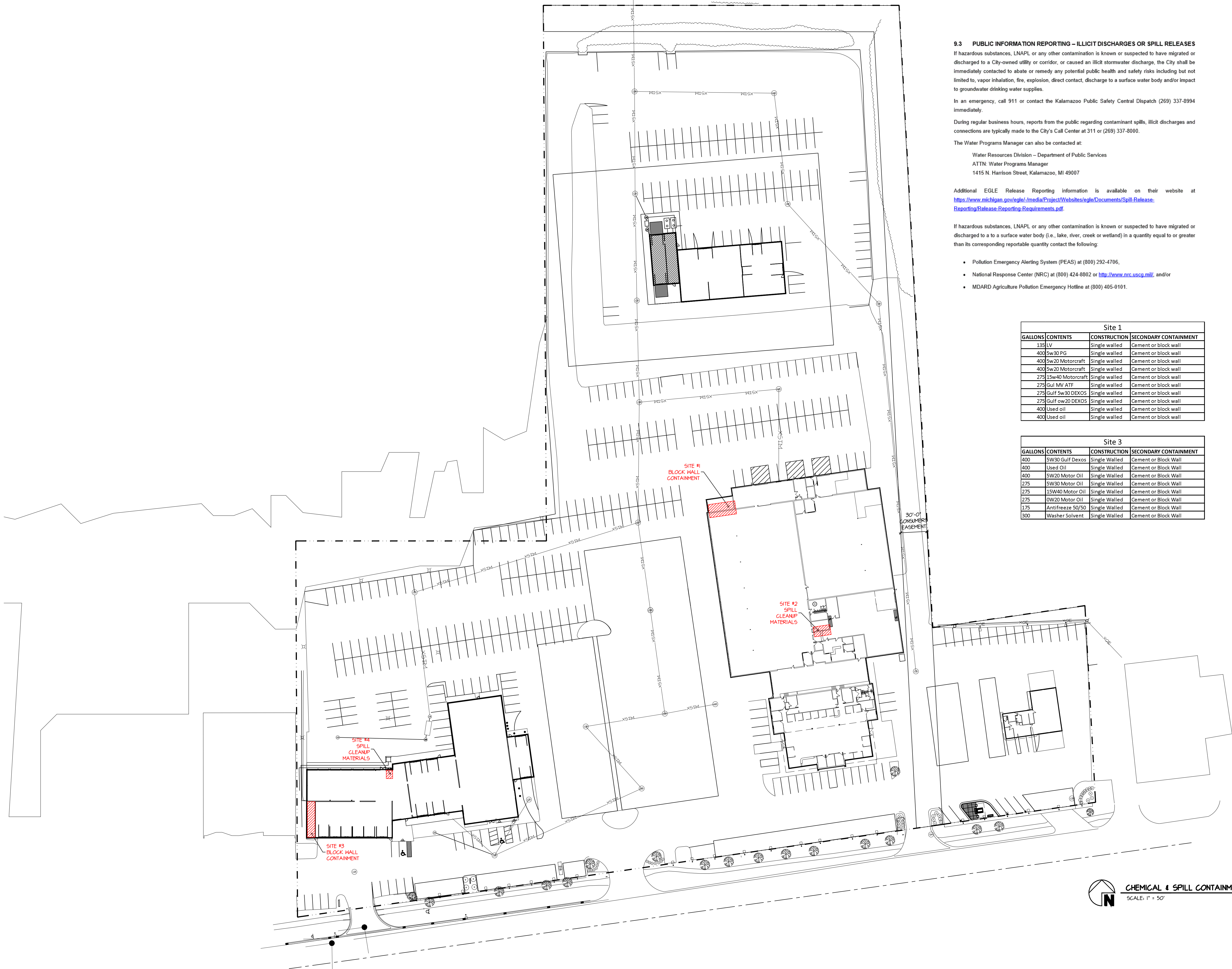
**Seelye Car Wash + EV Charger Area**  
4110 Stadium Drive, Kalamazoo, Michigan 49008



PN: 23057  
File Name: 23057-C002.dwg  
8085 Vineyard Parkway  
Kalamazoo, MI 49009  
(269) 351-5151  
Boscharcht.com

**C002**  
ENLARGED SITE PLANS  
AND GRADING PLANS

2024.07.08 SITE PLAN REVIEW/BIDDING  
ISSUED



**CHEMICAL AND SPILL CONTAINMENT NOTES:**

- SITE #1: CHEMICAL STORAGE AREA
- SITE #2: SPILL CLEANUP MATERIALS FOR SITE #1
- SITE #3: CHEMICAL STORAGE AREA
- SITE #4: SPILL CLEANUP MATERIALS FOR SITE #3
- SITE HAS A FACILITY NUMBER ASSIGNED FOR 3 PREVIOUS 100G STORAGE TANKS THAT WERE REMOVED IN 1990, SITE 15 IS NOT LISTED AS A PART 201 OR PART 213 FACILITY.

**9.3 PUBLIC INFORMATION REPORTING – ILLICIT DISCHARGES OR SPILL RELEASES**  
 If hazardous substances, LNAPL or any other contamination is known or suspected to have migrated or discharged to a City-owned utility or corridor, or caused an illicit stormwater discharge, the City shall be immediately contacted to abate or remedy any potential public health and safety risks including but not limited to, vapor inhalation, fire, explosion, direct contact, discharge to a surface water body and/or impact to groundwater drinking water supplies.

In an emergency, call 911 or contact the Kalamazoo Public Safety Central Dispatch (269) 337-8994 immediately.  
 During regular business hours, reports from the public regarding contaminant spills, illicit discharges and connections are typically made to the City's Call Center at 311 or (269) 337-8000.

The Water Programs Manager can also be contacted at:  
 Water Resources Division – Department of Public Services  
 ATTN: Water Programs Manager  
 1415 N. Harrison Street, Kalamazoo, MI 49007

Additional EGLE Release Reporting information is available on their website at <https://www.michigan.gov/egle/-/media/Project/Websites/egle/Documents/Spill-Release-Reporting/Release-Reporting-Requirements.pdf>.

If hazardous substances, LNAPL or any other contamination is known or suspected to have migrated or discharged to a surface water body (i.e., lake, river, creek or wetland) in a quantity equal to or greater than its corresponding reportable quantity contact the following:

- Pollution Emergency Alerting System (PEAS) at (800) 292-4706,
- National Response Center (NRC) at (800) 424-8802 or <http://www.nrc.uscg.mil/> and/or
- MDARD Agriculture Pollution Emergency Hotline at (800) 465-0101.

Site 1			
GALLONS	CONTENTS	CONSTRUCTION	SECONDARY CONTAINMENT
135	LV	Single walled	Cement or block wall
400	5w30 PG	Single walled	Cement or block wall
400	5w20 Motorcraft	Single walled	Cement or block wall
400	5w20 Motorcraft	Single walled	Cement or block wall
275	15w40 Motorcraft	Single walled	Cement or block wall
275	Gul MV ATF	Single walled	Cement or block wall
275	Gulf 5w30 DEXOS	Single walled	Cement or block wall
275	Gulf 0w20 DEXOS	Single walled	Cement or block wall
400	Used oil	Single walled	Cement or block wall
400	Used oil	Single walled	Cement or block wall

Site 3			
GALLONS	CONTENTS	CONSTRUCTION	SECONDARY CONTAINMENT
400	5W30 Gulf Dexos	Single Walled	Cement or Block Wall
400	Used Oil	Single Walled	Cement or Block Wall
400	5W20 Motor Oil	Single Walled	Cement or Block Wall
275	5W30 Motor Oil	Single Walled	Cement or Block Wall
275	15W40 Motor Oil	Single Walled	Cement or Block Wall
275	0W20 Motor Oil	Single Walled	Cement or Block Wall
175	Antifreeze 50/50	Single Walled	Cement or Block Wall
300	Washer Solvent	Single Walled	Cement or Block Wall

2024-07-08 SITE PLAN REVIEW/BIDDING  
 ISSUED



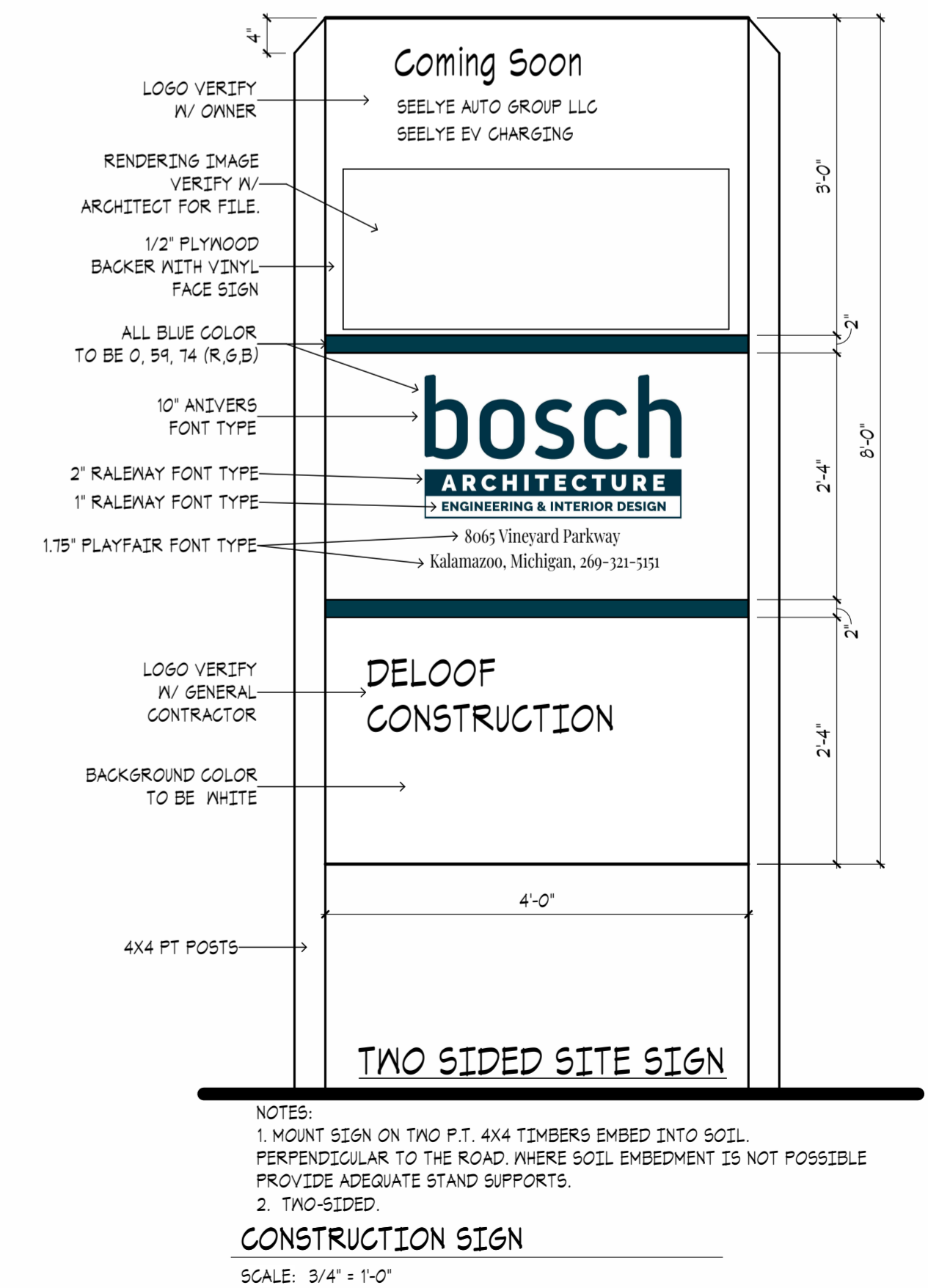
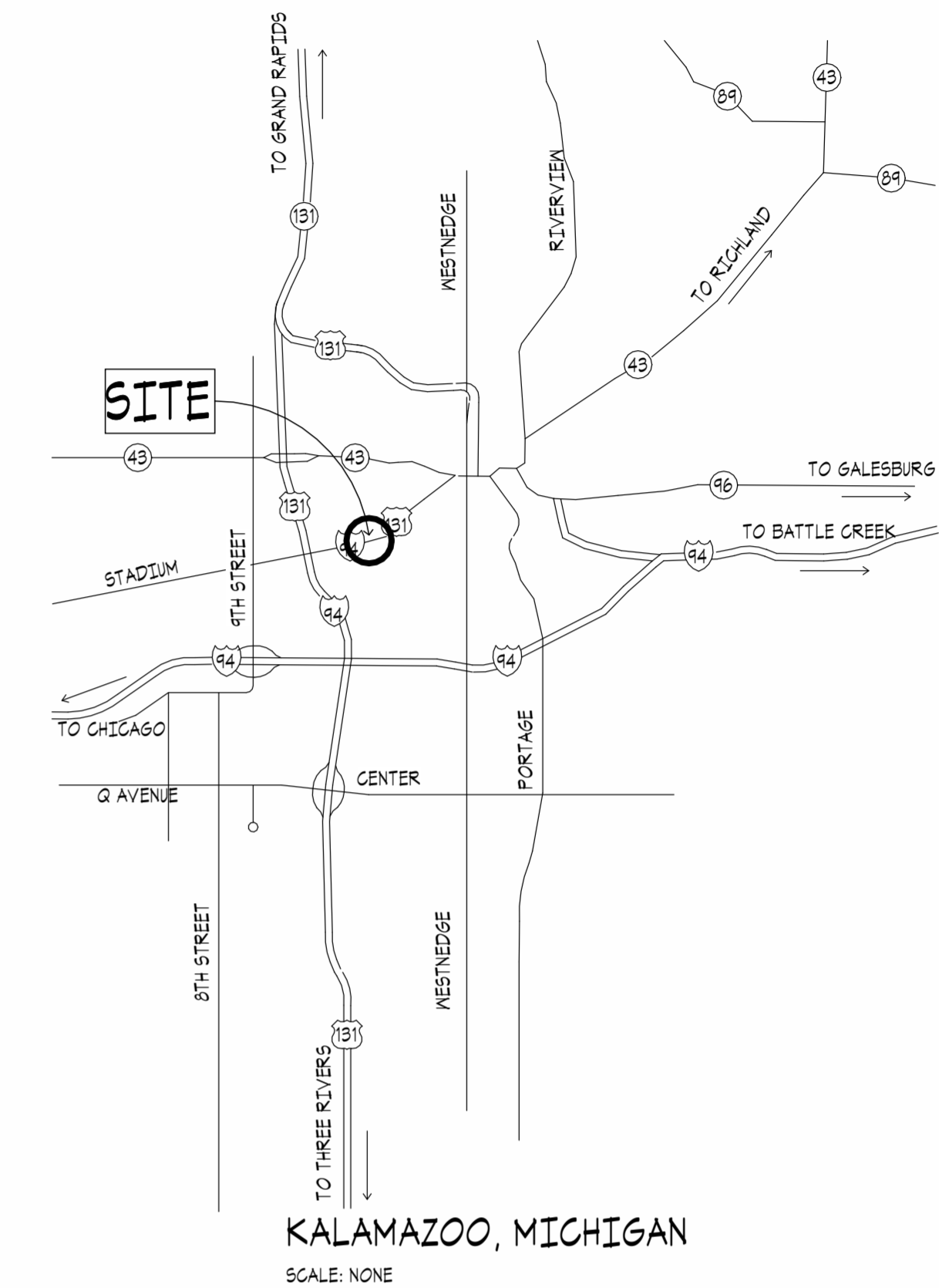
PN: 23057  
 File Name: 23057-0003.dwg  
 8865 Vineyard Parkway  
 Kalamazoo, MI 49009  
 (269) 351-5151  
 BoschArch.com

# Seelye EV Charging

3802 Stadium Dr, Kalamazoo, MI 49008



PROJECT SHEET INDEX	
SHEET NUMBER	SHEET NAME
G001	COVER SHEET
A101	FLOOR PLAN + ROOF PLAN
A201	EXTERIOR ELEVATIONS + BUILDING SECTIONS + WALL DETAIL



Seelye EV Charging  
3802 Stadium Dr, Kalamazoo, MI 49008

NOT FOR CONSTRUCTION  
07/02/2024  
ISSUED

**bosch**  
ARCHITECTURE  
ENGINEERING & INTERIOR DESIGN

PN:23057  
7/2/2024 11:20:23 AM  
8065 Vineyard Parkway  
Kalamazoo MI 49009  
(269) 321-5151  
Boscharch.com

**G001**  
COVER SHEET

**ROOF NOTES**

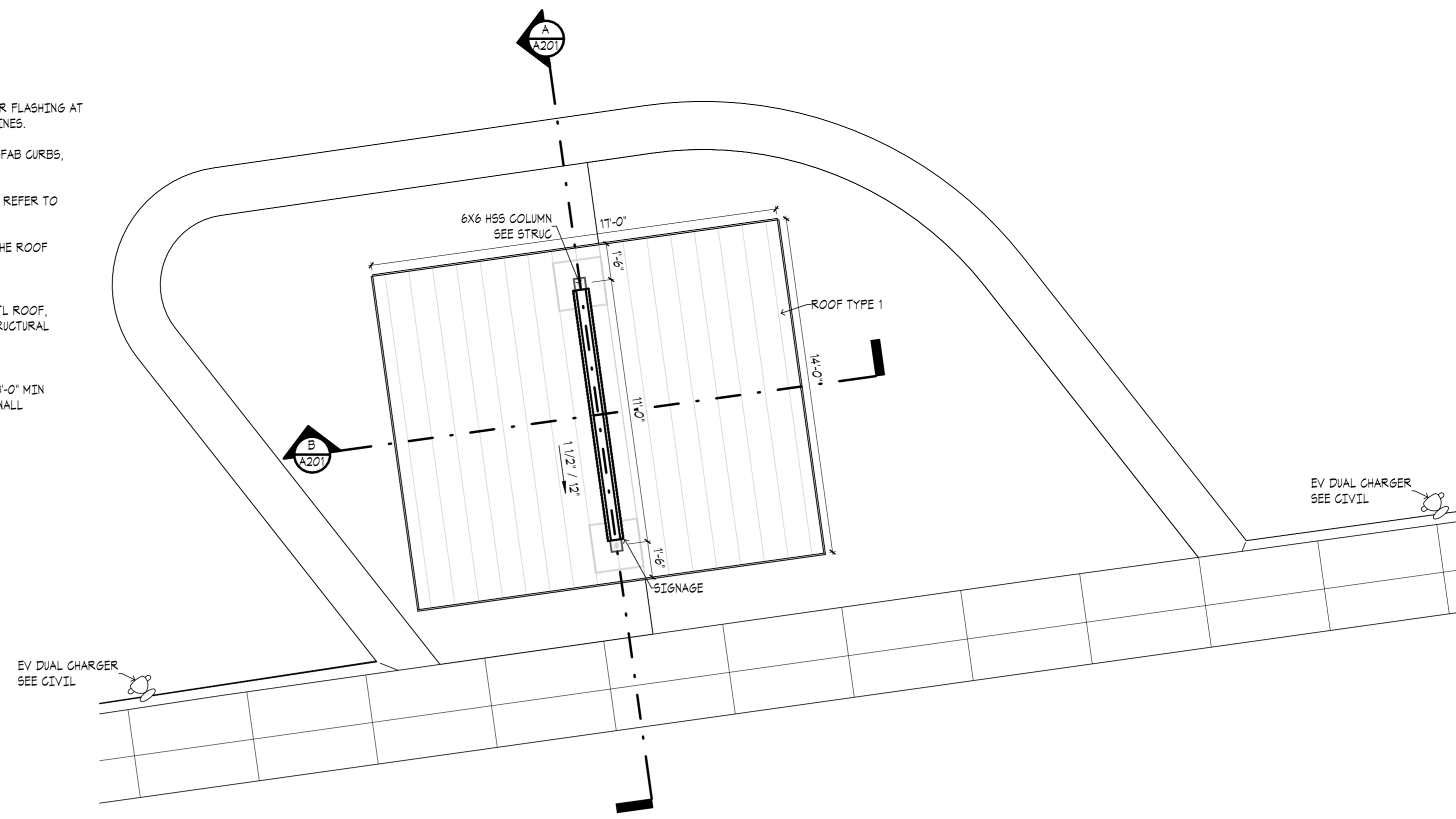
1. ROOF CONTRACTOR TO PROVIDE ALL FLASHING AND COUNTER FLASHING AT ALL ROOF PENETRATIONS. COORDINATE WITH OTHER DISCIPLINES.
2. ALL FLASHING, COUNTER FLASHING AND BLOCKING FOR PRE-FAB CURBS, MISC. FANS AND ANY DUCT SUPPORTS.
3. ALL ROOF INSULATION AT JOIST BEARING ELEVATION. TYP. REFER TO BUILDING SECTIONS + DETAILS FOR MORE INFORMATION.
4. ALL EXPOSED PIPING, VENTS, LOUVERS, PROJECTING THRU THE ROOF SHINGLES TO BE PAINTED BLACK.

**ROOF TYPES**

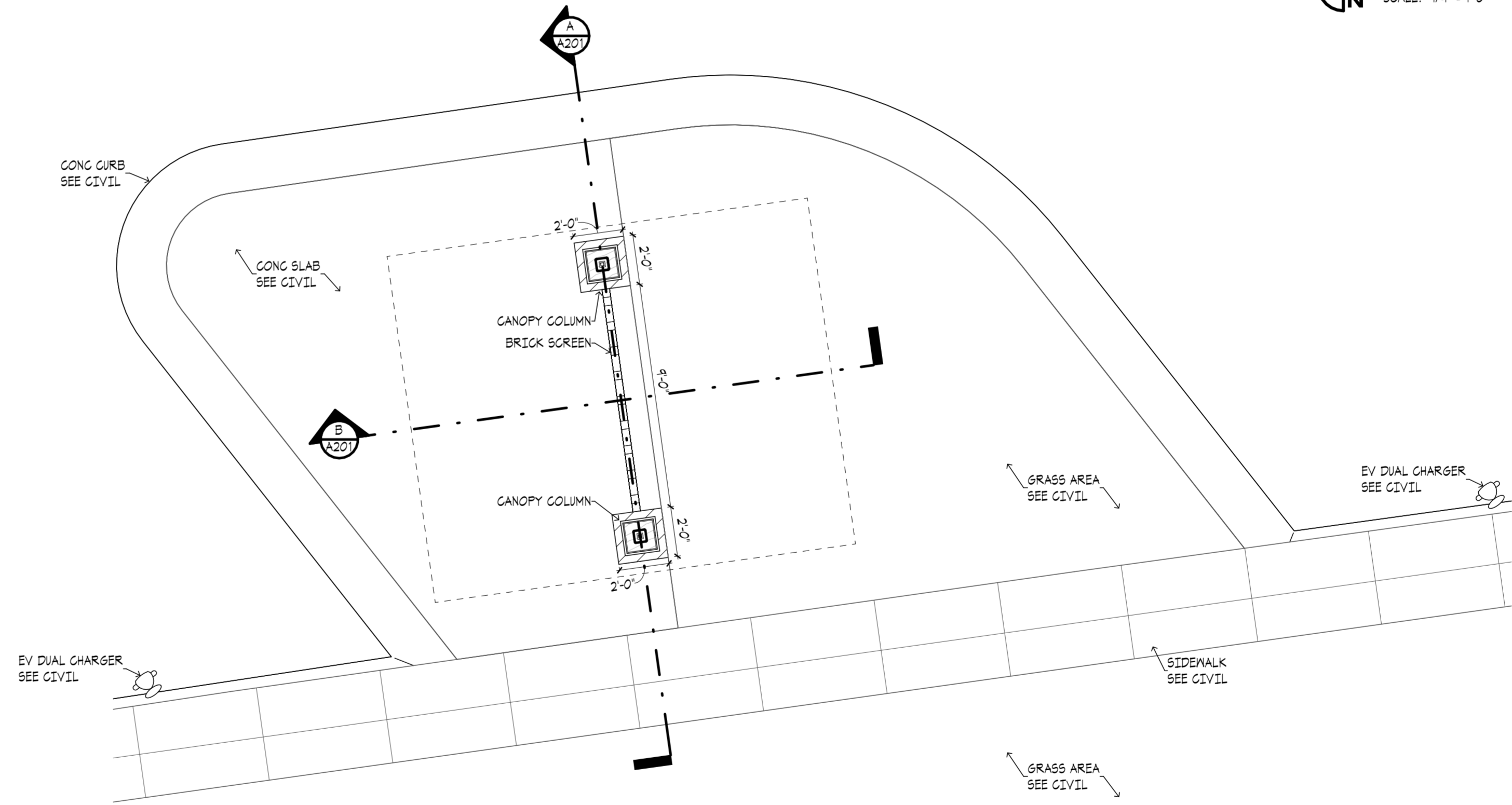
TYPE 1: TYPE 1: 28 GAUGE 12"x17" UNI-RIB STANDING SEAM MTL ROOF, ADHERED TO 1/2" WOOD SHEATHING ON MTL FRAMING PER STRUCTURAL DRAWINGS.

**ROOF KEY**

 GRACE ICE AND WATER SHIELD 3'-0" MIN UP ROOF FROM INSIDE OF EXT MALL



**ROOF PLAN**  
SCALE: 1/4" = 1'-0"



**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE RULES AND REGULATIONS OF LOCAL TOWNSHIP, THE STATE OF MICHIGAN, AND ALL OTHER AUTHORITIES HAVING JURISDICTION. THIS PROJECT SHALL FULLY COMPLY WITH MICHIGAN BUILDING CODE INCORPORATING THE ADOPTED EDITION OF THE MICHIGAN BUILDING CODE.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE AIA GENERAL CONDITIONS FOR CONSTRUCTION.
3. SHOULD THE GENERAL CONTRACTOR (G.C.) DISCOVER ANY DISCREPANCIES OR AMBIGUITIES OF INFORMATION THAT CAUSE DOUBT AS TO THE MEANING OF ANY DRAWING OR SPECIFICATION, THE G.C. SHALL NOTIFY THE ARCHITECT, AND REQUEST CLARIFICATION PRIOR TO PROCEEDING.
4. THE G.C. WILL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, CERTIFICATES, GUARANTEES, ETC., AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION, AND DELIVER THESE TO THE OWNER UPON COMPLETION OF THE WORK. THE OWNER SHALL PAY FOR ALL BUILDING PERMITS. THE G.C. SHALL ARRANGE AND COORDINATE INSPECTION OF ALL WORK BY BUILDING OFFICIALS. HE SHALL BE HELD RESPONSIBLE FOR ANY VIOLATIONS ARISING FROM LACK OF PERMIT, CONDEMNED WORK, OR FINES EACH TRADE OR CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED LICENSES AND CERTIFICATIONS NECESSARY TO WORK ON THIS PROJECT.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR AND MATERIALS AND MAKE GOOD OF ANY DEFECTS THEREIN WHICH ARE DISCOVERED OR OCCUR WITHIN ONE YEAR AFTER THE COMPLETION OF THE PROJECT. HE SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY MATERIAL OF EQUIPMENT CONSIDERED PART OF THE CONTRACT AND UNDER GUARANTEE PERIODS SPECIFICALLY NOTED BY THE MANUFACTURER THEREOF.
6. ALL WORKMEN EMPLOYED BY THE G.C. OR ANY SUBCONTRACTORS SHALL BE SKILLED AT THE WORK TO WHICH HE IS ASSIGNED. ALL TRADES MUST PROVIDE EVIDENCE OF WORKMAN'S COMPENSATIONS AND LIABILITY INSURANCE IN FORCE.
7. ALL MATERIAL STORED ON THE SITE SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE FROM OTHER WORK IN PROGRESS. REPAIR OF COMPLETED WORK DAMAGED IN THE COURSE OF THE PROJECT WILL BE THE G.C.'S RESPONSIBILITY AT NO COST TO THE OWNER.
8. THE PROJECT SITE IS TO BE KEPT REASONABLY CLEAN AT ALL TIMES. LOOSE TRASH IS TO BE CONTAINED AND EMPTIED OFF THE SITE WHEN FULL PAINT SPOTS AND EXCESS CAULKING ARE TO BE REMOVED.
9. UPON COMPLETION OF THE WORK, THE G.C. IS RESPONSIBLE FOR THE FINAL ADJUSTMENTS OR REPAIRS TO WINDOWS, DOORS, HARDWARE, DEVICES AND THOSE ITEMS DEEMED BY THE ARCHITECT TO MAKE THE PROJECT HABITABLE.
10. THOSE ITEMS NOT NOTED, BUT IMPLIED AS NECESSARY FOR THE COMPLETION OF THE WORK ARE TO BE PART THEREOF. THE G.C. SHALL VERIFY ALL DIMENSIONS, QUANTITIES, AND ALL DETAILS IN THE FIELD.
11. APPROVAL OF MINOR CHANGES OR CLARIFICATION TO PLANS MAY BE ACCOMPLISHED BY ISSUANCE OF REVISED PLANS, PARTIAL SKETCH, OR INITIALING AND DATING OF CHANGE BY THE ARCHITECT ON THE EXISTING PLANS.
12. THE ARCHITECT AND/OR DESIGNER SHALL HAVE NO CONTROL OVER AND SHALL HAVE NO RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES.
13. THE ARCHITECT AND/OR DESIGNER HAS NO RESPONSIBILITY FOR ANY ACTIONS OR OMISSIONS OF THE G.C. OR HIS SUBCONTRACTORS, OR THE FAILURE OF THEM TO PERFORM WORK ACCORDING TO THE CONTRACT DOCUMENTS.
14. NO CHANGE BY THE ARCHITECT WILL BE MADE BY THE G.C. UNLESS AUTHORIZED BY AN AIA CHANGE ORDER, AND SIGNED BY ALL PARTIES, PRIOR TO AFFECTING THE CHANGE.
15. UNLESS OTHERWISE NOTED, ALL EXPOSED ELECTRICAL, MECHANICAL, PLUMBING AND COMMUNICATIONS LINES, DUCTS, PIPES, UNITS AND DEVICES ARE TO BE PRIMED AND PAINTED THE SAME COLOR AS THE WALL AND/OR CEILING SURFACE ON WHICH THEY RUN, OR ARE TO BE LOCATED ON, IN ORDER TO BLEND IN. TENANT REQUIREMENTS WILL DICTATE AND MAY REQUIRE DUCTS, PIPES, ETC. ARE TO REMAIN UN-PRIMED. CONSULT TENANT REQUIREMENTS PRIOR TO PRIMING.
16. ALL NOTES ON ALL DRAWINGS OF THE ARCHITECT, ENGINEER, AND DESIGNER'S DRAWINGS AND PLANS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

**Seelye EV Charging**  
3802 Stadium Dr, Kalamazoo, MI 49008

**NOT FOR CONSTRUCTION**  
07/02/2024

**bosch**  
ARCHITECTURE  
ENGINEERING & INTERIOR DESIGN

PN:23057  
7/2/2024 11:20:24 AM  
665 Vineyard Parkway  
Suite 200  
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**A101**  
FLOOR PLAN + ROOF PLAN

