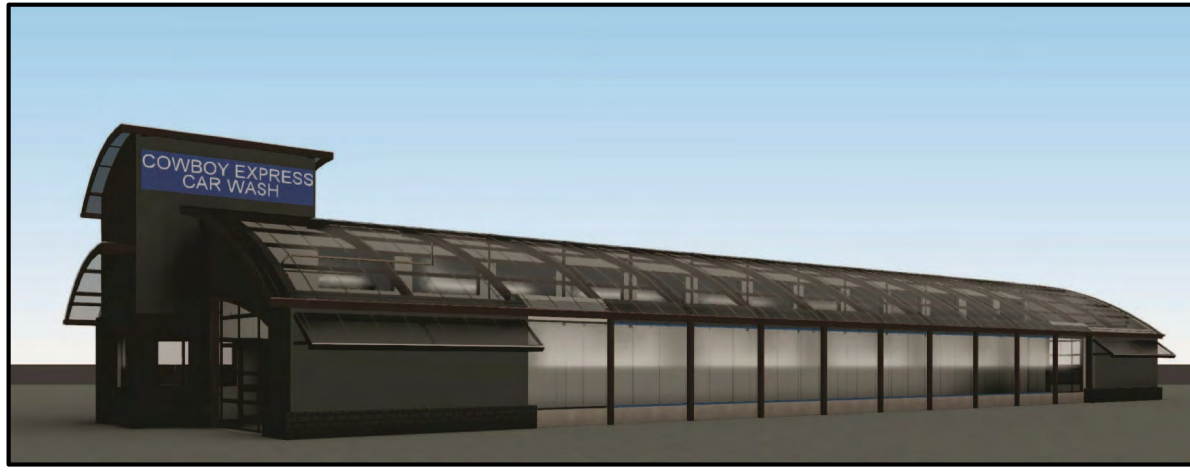


New Car Wash

for COWBOY EXPRESS CARWASH



3601 SW Hollywood Drive
LEE SUMMIT, MISSOURI 64082

PROJECT - SCOPE OF WORK SUMMARY

BUILDING DESCRIPTION: NEW TYPE IIB PRE-ENGINEERED STRUCTURE. PRE-ENGINEERED BUILDING DRAWINGS TO BE SUBMITTED UNDER SEPARATE COVER.

SCOPE OF WORK DETAILS: NEW GROUND UP BUILDING TO BE USED FOR WASHING VEHICLES. SCOPE OF WORK INCLUDES ALL TRADES (PLUMB, MECH, ELECT, CIVIL AND STRUCTURAL.) NOTE: EQUIPMENT DRAWINGS FOR CAR WASH EQUIPMENT AND VACUUM EQUIPMENT ARE UNDER SEPARATE COVER. COORDINATE BUILDING PLANS WITH EQUIPMENT MANUFACTURER'S PLANS.

LOCATION MAP



GENERAL CONSTRUCTION NOTES

1. THE GENERAL CONTRACTOR SHALL OBSERVE ALL REGULATIONS IMPOSED BY THE APPROPRIATE GOVERNING BODIES, AND ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODES, ACCIDENT AND FIRE PREVENTION ALL MATERIALS, EQUIPMENT, WORKMANSHIP, WORKING CONDITIONS, AND CONSTRUCTION METHODS SHALL COMPLY WITH THE LATEST APPLICABLE SECTIONS OF THE LOCAL MUNICIPAL, COUNTY, STATE, AND FEDERAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE 2018 I.B.C. BUILDING CODE, AND/OR THE LANDLORD.
2. GENERAL CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING ANY CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES AT THE BUILDING SITE.
3. THE GENERAL CONTRACTOR SHALL ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL AND ELECTRICAL WORK, AS REQUIRED FOR THEIR INSTALLATION BY THE APPROPRIATE TRADES AND PER THE DRAWINGS.
4. PROVIDE ALL NECESSARY TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING NEW CONSTRUCTION.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY AND SECURITY IN AND AROUND THE JOB SITE DURING CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL FILE FOR AND SECURE ALL IN AND AROUND THE JOB SITE DURING CONSTRUCTION.
7. DO NOT SCALE DRAWINGS. THE DIMENSIONS SHALL ALWAYS SUPERSEDE THE DRAWING.
8. THE GENERAL CONTRACTOR SHALL LOCATE THE BUILDING AREA, BUILDING LINES, BENCH MARKS, FINISH FLOOR ELEVATIONS, LAYOUT FOR PARTITIONS, DOORS AND OPENINGS, ETC., FOR USE OF ALL SUB-CONTRACTORS AND ALL TRADES INVOLVED WITH THIS PROJECT.
9. GENERAL CONTRACTOR SHALL INSTALL ALL REQUIRED BLOCKING, FOR ALL EQUIPMENT, HANGERS, ETC.
10. ALL DIMENSIONS SHOWN ARE TO THE FACE OF GYPSUM BOARD.

CODE DATA - 2018 I.B.C.

THE FOLLOWING ARE CODES FOLLOWED WITHIN THIS SET OF DOCUMENTS:

- 2018 International Building Code
- 2018 International Plumbing Code
- 2018 International Mechanical Code
- 2018 International Fuel Gas Code
- 2018 International Residential Code
- 2018 International Fire Code
- 2017 National Electrical Code
- ICC/ANSI A117-2009, Accessible and Usable Buildings and Facilities

1. USE GROUP: B - BUSINESS CAR WASH
2. CONSTRUCTION TYPE: UNPROTECTED - 2B

3. HEIGHT AND AREA LIMITATIONS:
ALLOWABLE
3 STORY (55'-0")
23,000 SQ. FT. / FLOOR

ACTUAL

1 STORY (26'-0") TOP OF CURVED ROOF
4,815 SQ. FT. - TOTAL BUILDING

4. OVER ALL FIRE SUPPRESSION SYSTEM :

EXISTING BUILDING NOT SPRINKLED

5. FIRE RESISTANT RATINGS (I.B.C. 2018 - TABLE 601)

STRUCTURAL FRAME	0 HOURS
BEARING WALLS	0 HOURS
NON-LOAD BEARING WALLS	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
CEILING / ROOF CONSTRUCTION	0 HOURS

DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE
A-0	Abbreviations, Symbols, Code Block, Sheet Index and Location Map

CIVIL

C1-01	Specifications
C1-02	Specifications
C2-01	Site Plan
C2-02	Grading Plan
C2-03	SWPPP NOTES
C3-01	Typical Details
C3-02	Typical Details
C3-03	Sidewalks, Ramps and Step Details
C3-04	Curb and Gutter Details
C3-05	Traffic Control
C4-01	Drainage Area Map

LANDSCAPE

L-01	Landscape Plan, Schedules and Notes
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ARCHITECTURAL

SPEC1	General Project Notes
SPEC2	General Specifications and Accessible Details
A1	Floor Plan, Schedules and Notes
A2	Equipment Floor Plan and Schedules
A3	Reflected Ceiling Plan, Legend and Notes
A4	Enlarged Plan, Interior Elevations, Details
A5	Roof Plan, Details, Building Sections and Notes
A6	Exterior Elevations, Schedules and Notes
A7	Wall Sections
A8	Head, Jamb and Sill Details

STRUCTURAL

UNDER SEPARATE COVER

MECHANICAL - PLUMBING

M1.1	Mechanical Floor Plan
M2.1	Schedules
M3.1	HVAC Details
P1.1	Sanitary Plumbing Floor Plan
P1.2	Domestic Water Plumbing Floor Plan
P2.1	Plumbing Schedules
P3.1	Plumbing Details

ELECTRICAL

E-1	Electrical Site Plan
E-2	Electrical Building Elevations
E-3	Electrical Power Plan
E-4	Electrical Lighting Plan
E-5	Electrical Service Diagram - Panel Schedules

SYMBOLS

MATERIALS

SECTION	EARTH	ELEVATION
	CONCRETE	
	STONE	
	BRICK	
	CONCRETE MASONRY UNIT	
	METAL	
	WOOD	
	PLYWOOD	
	BATT INSULATION	
	BOARD INSULATION	
	E.J. MATERIAL	
	GLASS	
	GYPSUM BOARD	

PLAN

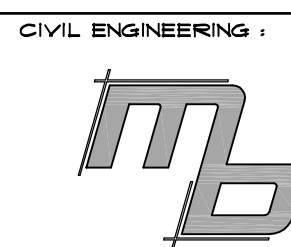
EXIST. WALL OR PTN. TO REMAIN
EXIST. WALL OR PTN. TO BE REMOVED
BRICK PTN.
CMU PTN.
METAL STUD PTN.
WOOD STUD PTN.
PTN. NUMBER RE: PTN. SCHED.
DIRECTION OF VIEW
PARTITION NOTATION
SHEET NUMBER DISCIPLINE CODE
SHEET CODE NOTATION
DOOR TYPE (REFER TO DOOR SCHEDULE FOR DOOR INFORMATION)
DOOR & FRAME NOTATION
ROOM NAME
WINDOW NUMBER
CEILING HT.
DETAIL & SHEET NUMBER
DETAIL ENLARGEMENT AREA
DETAIL NOTATION
DIRECTION OF VIEW
ELEVATION OR GROUP OF ELEVATIONS & SHEET NUMBER
ELEVATION NOTATION
DETAIL & SHEET NUMBER
PLAN ENLARGEMENT AREA
DETAIL SECTION
ENLARGED PLAN NOTATION

ABBREVIATIONS

A A.C. A/C ACOUS. T. ADJ. ADJUST. A.F.F. A.H.U. ALT. ALUM. ANC. ANC. B. APPROX. ARCH. ASPH. T. ASSYS.	AT ANGLE ABOVE AIR CONDITIONING ACOUSTICAL TILE ADJACENT ADJUSTABLE ABOVE FINISH FLOOR AIR HANDLING UNIT ALTERNATE ALUMINUM ANCHOR ANCHOR BOLT APPROXIMATE ARCHITECTURAL ASPHALT TILE ASSEMBLIES	E E.A. E. ANC. E.E. E.J. ELEC. ELEV. ENCL. ENTR. EQ. EQMT. E.R. ET CETERA EX. , EXIST. EXP. EXT.	EAST EACH EXPANSION ANCHOR ELECTRICAL CONTRACTOR EXPANSION JOINT ELECTRICAL ELEVATION ENCLOSURE ENTRANCE EQUAL EQUIPMENT EXHAUST REGISTER ET CETERA EXISTING EXPANSION EXTERIOR	M M.A.S. MATL. MAX. M.B. M.C. MECH. MFR. M.H. MIN. MISC. M.L. M.D.G. M.O. M.S. M.T. M.TL. MTR.	MASONRY MATERIAL MAXIMUM MACHINE BOLT MECHANICAL CONTRACTOR MECHANICAL MANUFACTURER MAN HOLE MINIMUM MISCELLANEOUS METAL LATH MOULDING MASONRY OPENING METAL STUD METAL THRESHOLD MOUNTED METAL MOTOR	R.G. R.L. R.M. R.O. RUST.	RETURN GRILL ROOF LEADER ROOM ROUGH OPENING RUSTICATION												
B BD. , BRD. B.L. BLDG. BLK. BLW. BM. B.M. BOTT. BTM. BRG. BRK. BUR.	BOARD BRICK LEDGE BUILDING BLOCK BELOW BEAM BENCH MARK BOTTOM BEARING BRICK BUILT UP ROOF	F F.A. F.C.U. F.D. FEN. F.E. F.H. FIN. FL. FIN. FL. FL. FLG. F.O.C. F.P. F.S. FT. FUT. F.V.	FRESH AIR FAN COIL UNIT FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FLATHEAD FINISH FINISH FLOOR FLOOR FLASHING FACE OF CONC. FIREPROOFING FULL SIZE FOOT/FEET FOOTING FUTURE FIELD VERIFY	N N.A. N.C. N.C. N.C. N.O. N.O. N.O. N.T.S.	NORTH NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN NUMBER NOMINAL NON-COM.WD. N.T.S.	O O. TO O. O.A. OBS. O.C. O.D. OFF. OPNG. OPP.	OUT TO OUT OVER ALL OBSCURE ON CENTERS OUTSIDE DIAMETER OFFICE OPENING OPPOSITE												
C C.L. C. CAB. C.B. CEMENT C.F. C.I. C.J. C.K.T. C.L. CLG. CLR. C.M.P. C.M.U. CONTR. C.O. COL. COMP. CONC. COND. CONST. CONT. C.R. C.S.K. CSWK. C.T. CTR. CONTR. FLG.	CENTER LINE CHANNEL COURSES (BRICK, ETC.) CABINET CHALK BOARD CEMENT CUBIC FEET CAST IRON CONTROL JOINT CIRCUIT (ELECTRIC) CENTER LINE CEILING CLEAR CORRUGATED METAL PIPE CONCRETE MASONRY UNIT COUNTER CLEAN OUT COLUMN COMPOSITION CONCRETE CONDITION CONSTRUCTION CONTINUOUS COLD-ROLLED COUNTERSUNK CASEWORK CERAMIC TILE CENTER COUNTER FLASHING	G G.A. G.B. G.D. G.C. G.I. G.L. G.M. GYP.	GAUGE GALVANIZED GRAB BAR GARBAGE DISPOSAL GENERAL CONTRACTOR GALVANIZED IRON GRADE LINE GRADE GYPSUM	H H.C. HD. HD. WD. H.M. HGT. , HT. H.M. HORIZ. H.P.	HOLLOW CORE HEAD HARDWOOD HARDWARE HEIGHT HOLLOW METAL HORIZONTAL HIGH POINT	I I.D. INT. INSUL.	INSIDE DIAMETER INTERIOR INSULATION	J J.T. JT.	JOIST JOINT	K KIT. K.P.	KITCHEN KICK PLATE	L L. L.V. LB. L.F. LOC. LLH LLV L.P. LV. L.W.	LENGTH LAVATORY POUND LINEAR FEET LOCATION LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT LOUVER LIGHT WEIGHT	R R. R.A. R. , RAD. R.D. RE. RECP.T. REF. REFG. REFL. REG. REINF. REQ. REV.	RISER RETURN AIR RADIUS ROOF DRAIN REFER RECEPTACLE REFERENCE REFRIGERATOR REFLECTED REGULAR REINFORCING REQUIRED REVERSE	W W. W. W/ W.C. WD. WDW. WH. W.I. WNSCT. W/O. W.P. W.P. W.P. WT. WTR. W.W.F.	WEST WIDTH WITH WATER CLOSET WOOD WINDOW WATER HEATER WROUGHT IRON WAINSCOT WITHOUT WATERPROOF WHITE PINE WORKING POINT WEIGHT WATER WELDED WIRE FABRIC	Y YD.	YARD

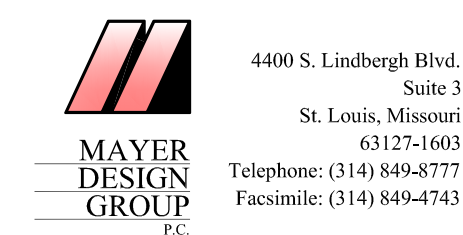
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LANDSCAPE DESIGN :



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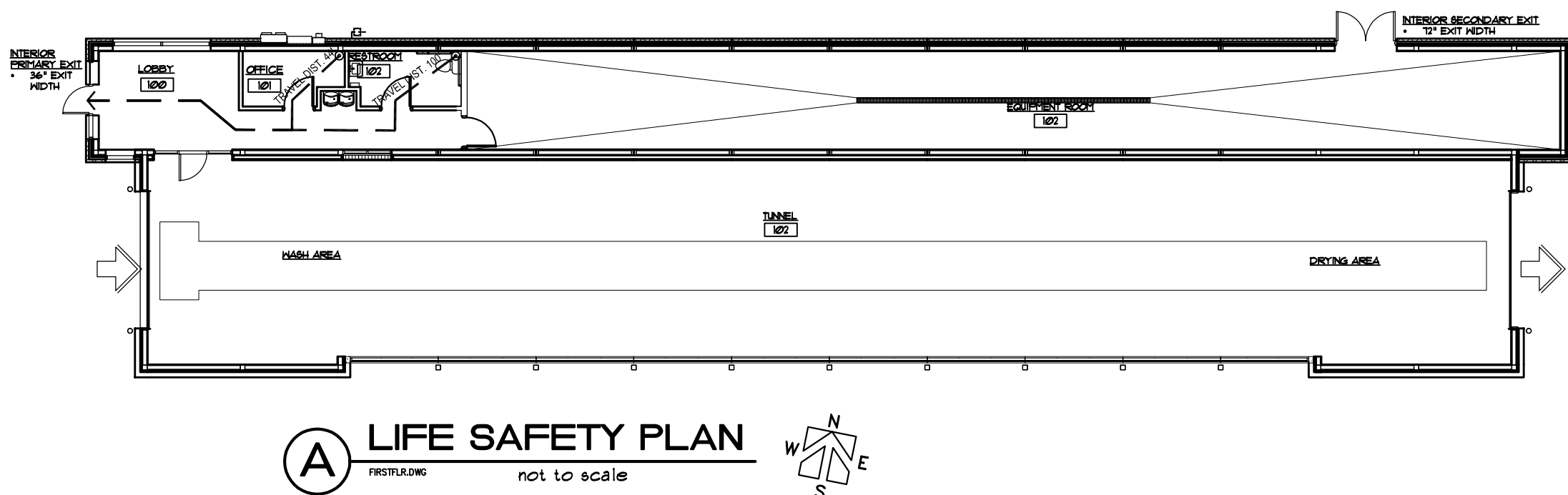
STRUCTURAL ENGINEERING:

UNDER SEPARATE COVER

MECHANICAL - ELECTRICAL - PLUMBING ENGINEER :



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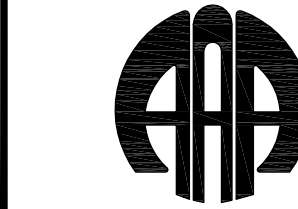


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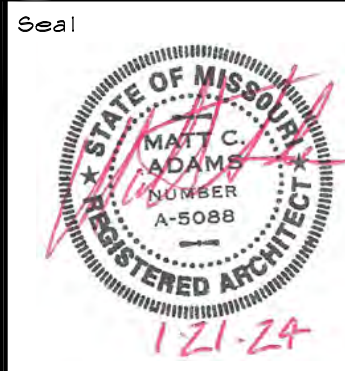


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ISSUED BY THE UNDERSIGNED PROFESSIONAL RELATING TO
THIS PROJECT. THE UNDERSIGNED PROFESSIONAL RELATES
TO THE PROJECT AND NOT TO THE PROJECT OWNER. THE
OWNER OR OTHERS ARE NOT A PART OF THIS PROJECT
UNLESS THEY ARE SPECIFICALLY IDENTIFIED BY THE
UNDERSIGNED PROFESSIONAL.



Project Code

CCW-2201

Project Title

New Car Wash

for

COWBOY

EXPRESS

CARWASH

3601 SW Hollywood Drive
LEE SUMMIT, MISSOURI
64082

Drawing Title

**Abbreviations,
Symbols, Code
Block, Sheet Index
and Location Map**

Date Drawn Checked
01-21-24 DB/mm M/M/A

Drawing Number

A0

GENERAL PROJECT NOTES

STEELWORK

1. ALL STEELWORK, INCLUDING EXCAVATION, BACKFILL, AND UTILITIES SHALL BE CONSTRUCTED IN COMPLIANCE WITH LOCAL REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL SOIL AND EROSION CONTROL REQUIREMENTS WITH THE LOCAL AUTHORITIES.
2. FOR PROJECTS WHERE SITE WORK IS BY OTHERS OR IS AN EXISTING CONDITION, THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE EXISTING CONDITIONS OR WITH THE WORK BEING PERFORMED BY OTHERS. CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
3. DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
4. CONTRACTOR SHALL COORDINATE ALL CONNECTIONS TO EXISTING UTILITIES OR UTILITIES BEING INSTALLED BY OTHERS.

CONCRETE

1. ALL CONCRETE WORK SHALL BE PERFORMED WITHIN ALL APPLICABLE AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS, THE PROJECT SPECIFICATIONS, AND AS NOTED AND SHOWN IN THE STRUCTURAL DRAWINGS.
2. PREPARE CONCRETE SURFACES TO RECEIVE ALL FINISH FLOOR MATERIALS. COORDINATE WITH FLOORING MANUFACTURER'S REQUIREMENTS.
3. CONCRETE FINISH FLOOR LEVELNESS SHALL COMPLY WITH 1/17/ASTM E 115 FOR FLOOR FLATNESS (FF) AND FLOOR LEVELNESS (FL). FF = 30, FL = 20.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ALL AREAS NOT MEETING THESE CRITERIA. CONTRACTOR SHALL SUBMIT PROPOSED CORRECTIVE ACTIONS AND MATERIALS TO THE ARCHITECT FOR REVIEW PRIOR TO PROCEEDING WITH THE CORRECTIONS.
4. SIGNIFICANT AREAS OF THE SLAB ARE RECESSED TO RECEIVE OTHER WOOD ATHLETIC FLOORING OR THICKEST MORTAR BEDS FOR SLOPED TILE INSTALLATION. COORDINATE THE EXTENT OF THESE RECESSES WITH THE WALL LAYOUTS SHOWN AND THE (S)CONTRACTORS PERFORMING THE WOOD ATHLETIC FLOORING AND TILE INSTALLATIONS.
5. WHERE INDICATED IN THE DRAWINGS, PROVIDE INTEGRALLY SLOPED FLOORS. IF REQUIRED, BUCK OUT AREAS AND POUR SEPARATELY TO ENSURE PROPER SLOPING.
6. PROVIDE CONCRETE CURBS AT LOCATIONS INDICATED IN THE DRAWINGS. COORDINATE WITH WALL LOCATIONS, RECESSED SLAB LOCATIONS, INTEGRALLY SLOPED FLOOR LOCATIONS, AND WALL OPENING LOCATIONS. SEE STRUCTURAL DRAWINGS FOR DETAILS. PROVIDE INTEGRAL WEATHERSTOPS AT ALL LOCATIONS.
7. PROVIDE UNDER-SLAB WEAP BARBERS AT ALL LOCATIONS. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. TAPE AND SEAL ALL JOINTS AND PENETRATIONS PER MANUFACTURER'S WRITTEN INSTRUCTIONS, OVERLAP MATERIALS AS DIRECTED. AT JUNCTURE WITH WALLS AND OTHER IMPEDING CONSTRUCTION, SEAL VAPOR BARRIER TO THE WALL.
8. REPAIR ALL EXISTING CONCRETE SLABS AS REQUIRED, ENSURE LEVELNESS WITH ANY ADJACENT NEW WORK. GRIND JUNCTURE AS REQUIRED TO ADDRESS ANY CURPING/RIDGES.

MASONRY

1. ALL MASONRY WORK SHALL BE PERFORMED WITHIN ALL APPLICABLE AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS (ACI 530), NATIONAL CONCRETE MASONRY ASSOCIATION STANDARDS (NCMA), NATIONAL INSTITUTE OF AMERICA (IMA), THE PROJECT SPECIFICATIONS, AND AS NOTED AND SHOWN IN THE STRUCTURAL DRAWINGS.
2. ALL EXISTING MASONRY WALLS TO REMAIN OR AFFECTED BY DEMOLITION SHALL MAINTAIN THEIR ORIGINAL RATING. WHERE REPAIR IS REQUIRED, INSTALL MASONRY OF EQUAL TYPE, FINISH, COLOR AND SIZE. IF SAME IS UNAVAILABLE, PROPOSE ALTERNATE MEANS OF REPAIR FOR REVIEW, WITH THE INTENT TO MATCH EXISTING AS CLOSE AS POSSIBLE.
3. PROVIDE FINISHED END UNITS AT WALL OPENINGS.
4. PROVIDE SPECIAL SHAPES, FINISHES, AND COLORS AS REQUIRED FOR A COMPLETE INSTALLATION.
5. CONTRACTOR SHALL CUT UNITS TO FIT AS REQUIRED WITH A WATERCOOLED MASONRY SAW. BROKEN, CHIPPED, OR OTHERWISE DAMAGED UNITS WILL NOT BE ACCEPTED.
6. STANDARD/DECORATIVE CONCRETE MASONRY UNITS:
 - 6.1. ASTM C90, NORMAL WEIGHT.
 - 6.2. NOMINAL SIZE: 8X16 FACE DIMENSION, UNLESS NOTED OTHERWISE. THICKNESS AS NOTED IN THE DRAWINGS.
 - 6.3. COLOR: GREY T3 STANDARD CMU. PROVIDE INTEGRAL COLOR WHERE INDICATED FOR DECORATIVE CONCRETE MASONRY UNITS.
 - 6.4. FINISH: AS INDICATED IN DRAWINGS.
 - 6.5. STRUCTURAL CAPACITY AS NOTED IN THE STRUCTURAL DRAWINGS.
 - 6.6. PROVIDE WITH INTEGRAL WATER REPELLENT AT EXTERIOR LOCATIONS.
 - 6.7. PROVIDE SPECIAL SHAPES AS REQUIRED, AT ALL 90 DEGREE CORNERS, AT WALL CAP CONDITIONS, AND AT BOND BEAMS. PROVIDE SMOOTH FACE AT SILLS AND JAMBS.
7. FACE BRICK:
 - 7.1. UNLESS NOTED OTHERWISE IN THE DRAWINGS, PROVIDE FACE BRICK COMPLYING WITH ASTM C216; TYPE FBS FOR MOLDED BRICK AND FBS FOR EXTRUDED BRICK. GRADE SW.
 - 7.2. MANUFACTURER, COLOR, STYLE, AND SIZE AS INDICATED IN THE DRAWINGS.
8. SINGLE WYTHE JOINT REINFORCEMENT:
 - 8.1. ASTM A951; TRUSS TYPE; HOT DIPPED GALVANIZED STEEL, 0.148" TIE RODS AND 0.148" CROSS TIES.
 - 8.2. WIDTH AS REQUIRED BY WALL THICKNESS.
 - 8.3. COMPLY WITH SEISMIC REQUIREMENTS INDICATED IN STRUCTURAL DRAWINGS.
9. MORTAR AND GROUT:
 - 9.1. MORTAR MIX FOR STRUCTURAL MASONRY: ASTM C270, TYPE S.
 - 9.2. MORTAR MIX FOR NON-STRUCTURAL MASONRY: ASTM C270, TYPE M.
 - 9.3. MORTAR MIX FOR ASTM C270 IN QUANTITIES NEEDED FOR IMMEDIATE USE.
 - 9.4. GROUT MIX: STRENGTH AS SPECIFIED IN THE STRUCTURAL DRAWINGS AT 28 DAYS; 8-11 NCI SLUMP; MIXED IN ACCORDANCE WITH ASTM C476. PROVIDE COURSE GROUT FOR SPACES WITH A MINIMUM 4" DIMENSION IN EVERY DIRECTION AND FINE GROUT FOR ALL OTHER SPACES.
 - 9.5. MIX GROUT IN ACCORDANCE WITH ASTM C476, MODIFIED TO USE INGREDIENTS COMPLYING WITH ASTM C476. ADJ. ADJUSTMENTS: MIX UNIFORMLY.
 - 9.6. COLORS: AS INDICATED IN THE DRAWINGS OR AS SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S FULL RANGE.

10. INSTALLATION:

- 10.1. ERECTION TOLERANCES:
 - 10.1.1. CMU: COMPLY WITH ACI 530 REQUIREMENTS.
 - 10.1.2. MASONRY VENEER:
 - 10.1.2.1. MAXIMUM VARIATION FROM PLANE OF WALL: 1/4" IN 10 FEET AND 1/2" IN 20 FEET OR MORE.
 - 10.1.2.2. MAXIMUM VARIATION FROM PLUMB: 1/4" PER STORY, NON-CUMULATIVE; 1/2" IN TWO STORIES OR MORE.
 - 10.1.2.3. MAXIMUM VARIATION FROM LEVELING: 1/8" IN 3 FEET AND 1/4" IN 10 FEET; 1/2" IN 30 FEET.
 - 10.1.2.4. MAXIMUM VARIATION IN JOINT THICKNESS 1/8" IN JCT.
 - 10.1.2.5. MAXIMUM VARIATION IN JOINT THICKNESS FROM CROSS SECTIONAL THICKNESS OF WALLS 1/4".
- 10.2. MASONRY COURSING:
 - 10.2.1. ESTABLISH LINES, LEVELS AND COURSING INDICATED. PROTECT FROM DISPLACEMENT.
 - 10.2.2. MAINTAIN MASONRY COURSES TO UNIFORM DIMENSIONS. FORM VERTICAL AND HORIZONTAL JOINTS TO UNIFORM DIMENSION.
 - 10.2.3. BOND: AS INDICATED. WHERE SPECIAL BONDS AND PATTERN ARE INDICATED IN THE DRAWINGS, ENSURE PROPER ALIGNMENT AND INSTALLATION AND THAT THE BOND AND PATTERN ARE CONSISTENTLY, AND SYMMETRICALLY, PLACED.
 - 10.2.4. MORTAR JOINTS: CONCAVE, UNLESS NOTED OTHERWISE.
- 10.3. MASONRY PLACING AND BONDING:
 - 10.3.1. LAY SOLID MASONRY UNITS ON FULL HEAD AND BED JOINTS. PLACE UNIFORMLY.
 - 10.3.2. LAY HOLLOW MASONRY UNITS WITH FACE SHELL SETTING ON HEAD AND JOINTS. PLACE UNIFORMLY.
 - 10.3.3. BUTTERING CORNERS OR JOINTS OR EXCESSIVE FLOORING OF MORTAR JOINTS IS NOT ACCEPTABLE.
 - 10.3.4. REMOVE EXCESS MORTAR AND SCAVERS AS WORK PROGRESSES.
 - 10.3.5. REMOVE EXCESS MORTAR WITH WATER REPLENT ADHESIVE PROMPTLY. DO NOT USE ACIDS, SANDBLASTING, OR HIGH PRESSURE CLEANING METHODS.
 - 10.3.6. INTERLOCK INTERSECTIONS AND EXTERIOR CORNERS, EXCEPT FOR UNITS IN STACK BOND.
 - 10.3.7. DO NOT SHIFT OR TAP MASONRY UNITS AFTER MORTAR HAS ACHIEVED INITIAL SET. WHERE ADJUSTMENT MUST BE MADE, REMOVE AND REPLACE MORTAR.
 - 10.3.8. PERFORM JOB SITE CUTTING OF MASONRY UNITS WITH PROPER TOOLS TO PROVIDE, STRAIGHT, CLEAN, UNCHIPPED EDGES. PREVENT BROKEN MASONRY UNIT CORNERS OR EDGES. DO NOT "BREM" MASONRY.
 - 10.3.9. CUT MORTAR JOINTS FLUSH WHERE WALL TILE IS SCHEDULED, CEMENT PARING IS REQUIRED, RESILIENT BASE IS SCHEDULED, CAVITY VAPOR BARRIER ADHESIVE IS APPLIED, OR BITUMEN DAMPPROOFING IS APPLIED.
 - 10.3.10. ISOLATE MASONRY PARTITIONS FROM VERTICAL STRUCTURAL FRAMING MEMBERS WITH A CONTROL JOINT. ISOLATE TOP OF MASONRY PARTITIONS FROM HORIZONTAL STRUCTURAL FRAMING MEMBERS AND SLABS OR DECKS WITH COMPRESSIBLE JOINT FILLER.
 - 10.3.11. PROVIDE CONTINUOUS SUPPORT AT FLASHINGS. AT HOLLOW MASONRY, GROUT VOIDS SOLID.
 - 10.3.12. DO NOT ALLOW MORTAR TO ACCUMULATE IN CAVITY WALL CONSTRUCTION; PROMPTLY REMOVE.
 - 10.3.13. DO NOT ALLOW MORTAR TO ACCUMULATE ON THE SURFACE OF MASONRY; PROMPTLY REMOVE.
 - 10.3.14. PROTECT TOP OF WALL CONSTRUCTION FROM RAIN, WEATHER, AND DEBRIS WITH PLASTIC SHEETING. ONLY EXPOSE ACTIVE SECTIONS.
 - 10.3.15. PROVIDE SAFETY CAPS ON EXPOSED REBAR.
- 10.4. CMU REINFORCEMENT AND ANCHORAGE:
 - 10.4.1. UNLESS INDICATED OTHERWISE IN THE DRAWINGS, PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAXIMUM.
 - 10.4.2. PLACE REINFORCEMENT IN FIRST AND SECOND HORIZONTAL JOINTS ABOVE AND BELOW OPENINGS. EXTEND 16" MINIMUM EACH SIDE OF OPENING.
 - 10.4.3. LAP JOINT REINFORCEMENT EACH END 6" MINIMUM.
 - 10.4.4. FASTEN VERTICAL REBAR TO STRUCTURAL FRAMING AND EMBED IN MASONRY JOINTS AS MASONRY IS LAID. DO NOT ATTACH TO SHEATHING BOARDS. UNLESS OTHERWISE INDICATED IN THE DRAWINGS, SPACE ANCHORS AT A MAXIMUM OF 24" HORIZONTALLY AND 16" VERTICALLY.
 - 10.4.5. REINFORCE GROUTED COMPONENTS AS NOTED IN THE DRAWINGS.
- 10.5. CLEANING:
 - 10.5.1. REMOVE EXCESS MORTAR AND DROPPINGS.
 - 10.5.2. REPLACE DEFECTIVE MORTAR AND MASONRY, MATCH EXISTING.
 - 10.5.3. CLEAN SOILED SURFACES WITH CLEANING SOLUTION.
 - 10.5.4. USE NON-METALLIC TOOLS FOR CLEANING OPERATIONS.

COLD FORMED AND LITE GAUGE METAL FRAMING

1. ALL COLD FORMED METAL FRAMING AND LITE GAUGE METAL FRAMING SHALL BE DESIGNED TO ALL APPLICABLE AMERICAN IRON AND STEEL INSTITUTE (AISI) STANDARDS, THE PROJECT SPECIFICATIONS, AND AS NOTED AND SHOWN IN THE STRUCTURAL DRAWINGS.
1. IF NOT INDICATED IN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, DESIGN CRITERIA FOR INTERIOR LITE GAUGE METAL WALL FRAMING SHALL BE L/240 FOR DEFLECTION AND 5PSF FOR PRESSURE AND FOR CEILING FRAMING SHALL BE L/360 FOR DEFLECTION AND 5 PSF FOR PRESSURE.
2. UNLESS SPECIFICALLY DESIGNED IN THE STRUCTURAL DRAWINGS, THE GAUGE AND SPACING OF METAL STUDS IS TO SHOW INTENT ONLY AND ARE THE MINIMUM DESIGN REQUIREMENT. STUD GAUGE MAY CHANGE WHERE REQUIRED TO PROPERLY ALIGN WALL FINISH SURFACES. (SUBMIT CHANGES) TO ARCHITECT FOR REVIEW PRIOR TO PROCEEDING WITH THE WORK). CONTRACTOR SHALL SUBMIT SEALED, ENGINEERED SHOP DRAWINGS FOR ALL COLD FORMED AND LITE GAUGE METAL FRAMING. THERE ARE SEVERAL ITEMS OF NOTE:
 - 2.1. PROVIDE DEFLECTION TRACKS AT THE HEAD OF ALL WALLS.
 - 2.2. WHERE RATED WALLS OCCUR, PROVIDE STUD GAUGES THAT MEET THE REQUIREMENTS OF THE INDICATED U.L. ASSEMBLY, EVEN IF THE GAUGE IS GREATER THAN INDICATED IN THE DOCUMENTS.
3. AT WET AREAS, PROVIDE METAL STRAP BLOCKING AT WALL MOUNTED ACCESSORIES, IN LIEU OF FIRE-RETARDANT TREATED WOOD BLOCKING. THE OWNER AND THE ARCHITECT WILL NOT ACCEPT WOOD BLOCKING AT WET LOCATIONS. CORRECTION OF THE WORK WILL SOLELY BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL STUD FRAMING AT EXTERIOR LOCATIONS AND AT INTERIOR WET/HUMID LOCATIONS SHALL BE HOT-DIPPED GALVANIZED.
5. UNLESS OTHERWISE INDICATED IN THE DRAWINGS, PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAXIMUM.
6. PROVIDE DEFLECTION TRACKS AT THE HEAD OF ALL WALLS.
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147. WHERE RATED WALLS OCCUR, PROVIDE STUD GAUGES THAT MEET THE REQUIREMENTS OF THE INDICATED U.L. ASSEMBLY, EVEN IF THE GAUGE IS GREATER THAN INDICATED IN THE DOCUMENTS.
148. AT WET AREAS, PROVIDE METAL STRAP BLOCKING AT WALL MOUNTED ACCESSORIES, IN LIEU OF FIRE-RETARDANT TREATED WOOD BLOCKING. THE OWNER AND THE ARCHITECT WILL NOT ACCEPT WOOD BLOCKING AT WET LOCATIONS. CORRECTION OF THE WORK WILL SOLELY BE THE RESPONSIBILITY OF THE CONTRACTOR.
149. ALL STUD FRAMING AT EXTERIOR LOCATIONS AND AT INTERIOR WET/HUMID LOCATIONS SHALL BE HOT-DIPPED GALVANIZED.
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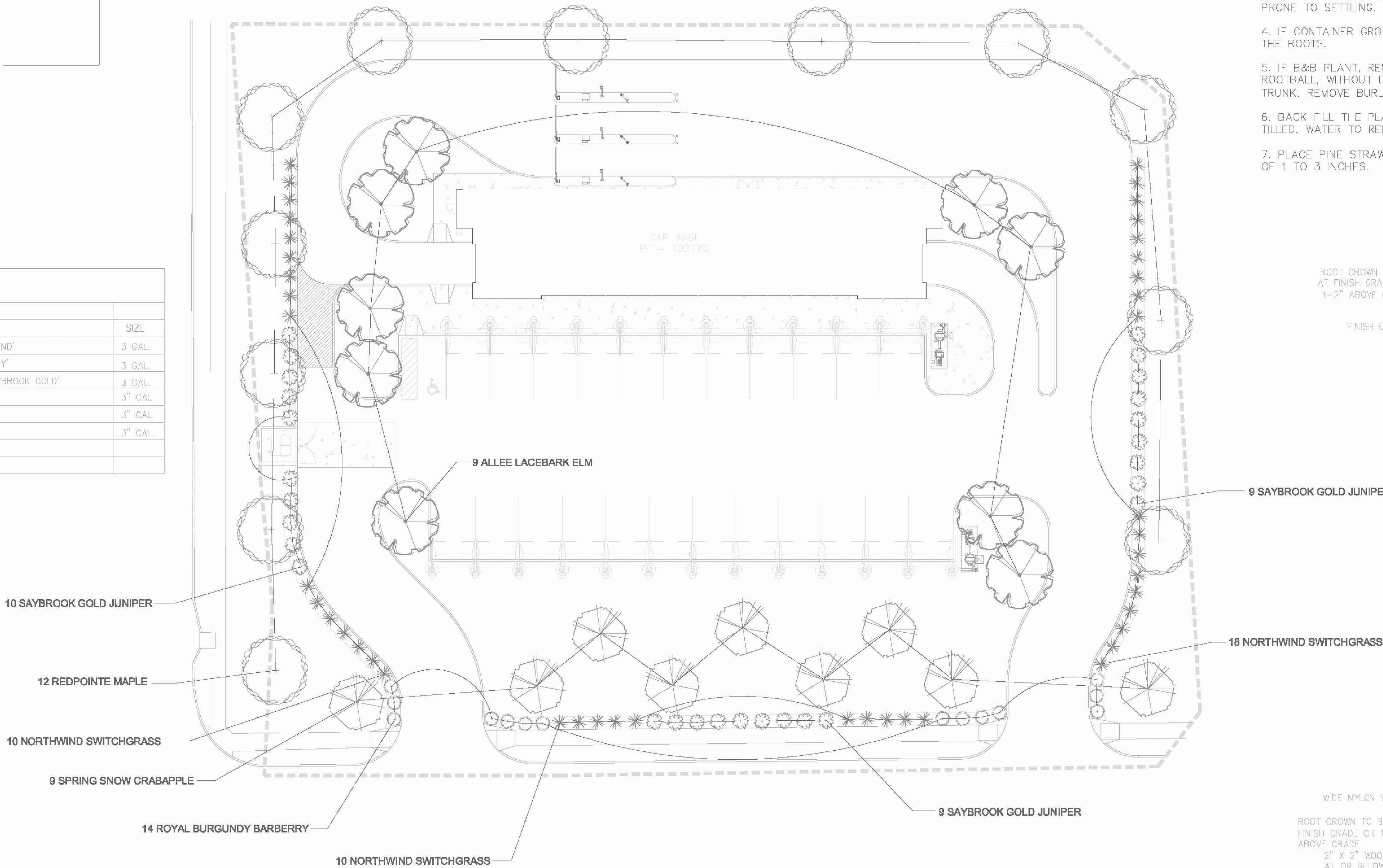
LANDSCAPE CALCULATIONS

STREET FRONTAGE: 540 L.F.
STREET FRONTAGE TREES REQUIRED: 18
STREET FRONTAGE TREES PROVIDED: 18
STREET FRONTAGE SHRUBS REQUIRED: 27
STREET FRONTAGE SHRUBS PROVIDED: 80 (ALSO PARKING LOT SCREENING)

OPEN YARD AREA: 62,048 S.F.
OPEN YARD TREES REQUIRED: 12
OPEN YARD TREES PROVIDED: 12

PLANT SCHEDULE

QTY	TREE/SHRUB: COMMON NAME	BOTANICAL NAME	SIZE
	NORTHWIND SWITCHGRASS	PANICUM VIRGATUM 'NORTHWIND'	3 GAL.
	ROYAL BURGUNDY BARBERRY	BERBERIS THUNBERGII 'GENTRY'	3 GAL.
	SAYBROOK GOLD JUNIPER	JUNIPERUS PHILIZURIANA 'SAYBROOK GOLD'	3 GAL.
	ALLEE LACEBARK ELM	ULMUS PARVIFOLIA 'ALLEE'	3" CAL.
	REDPOINTE MAPLE	ACER RUBRUM 'REDPOINT'	3" CAL.
	SPRING SNOW CRABAPPLE	MALUS X 'SPRING SNOW'	3" CAL.

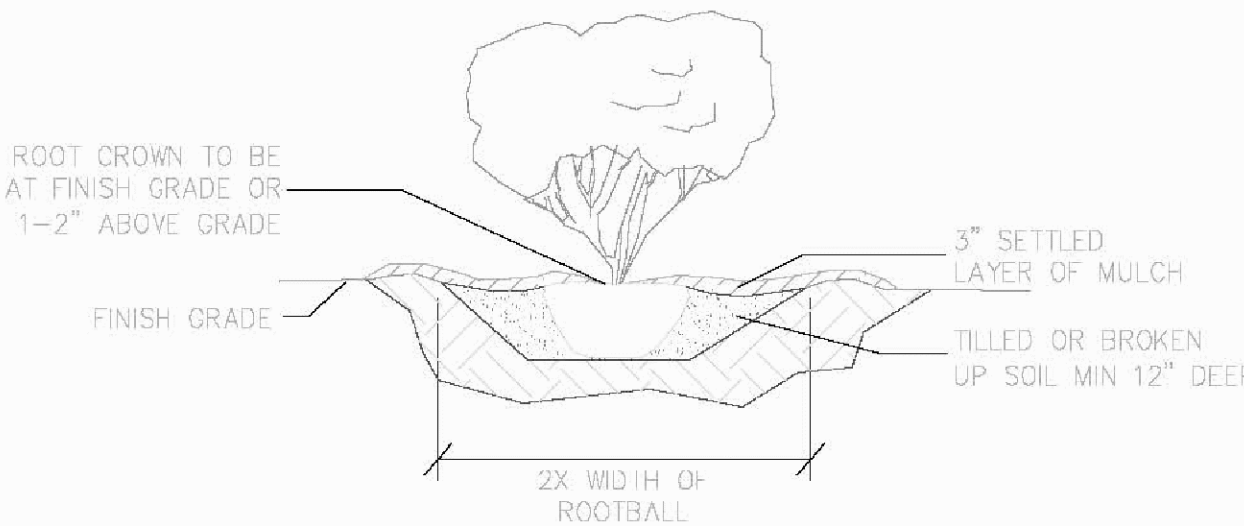


LANDSCAPE PLAN

0 20'

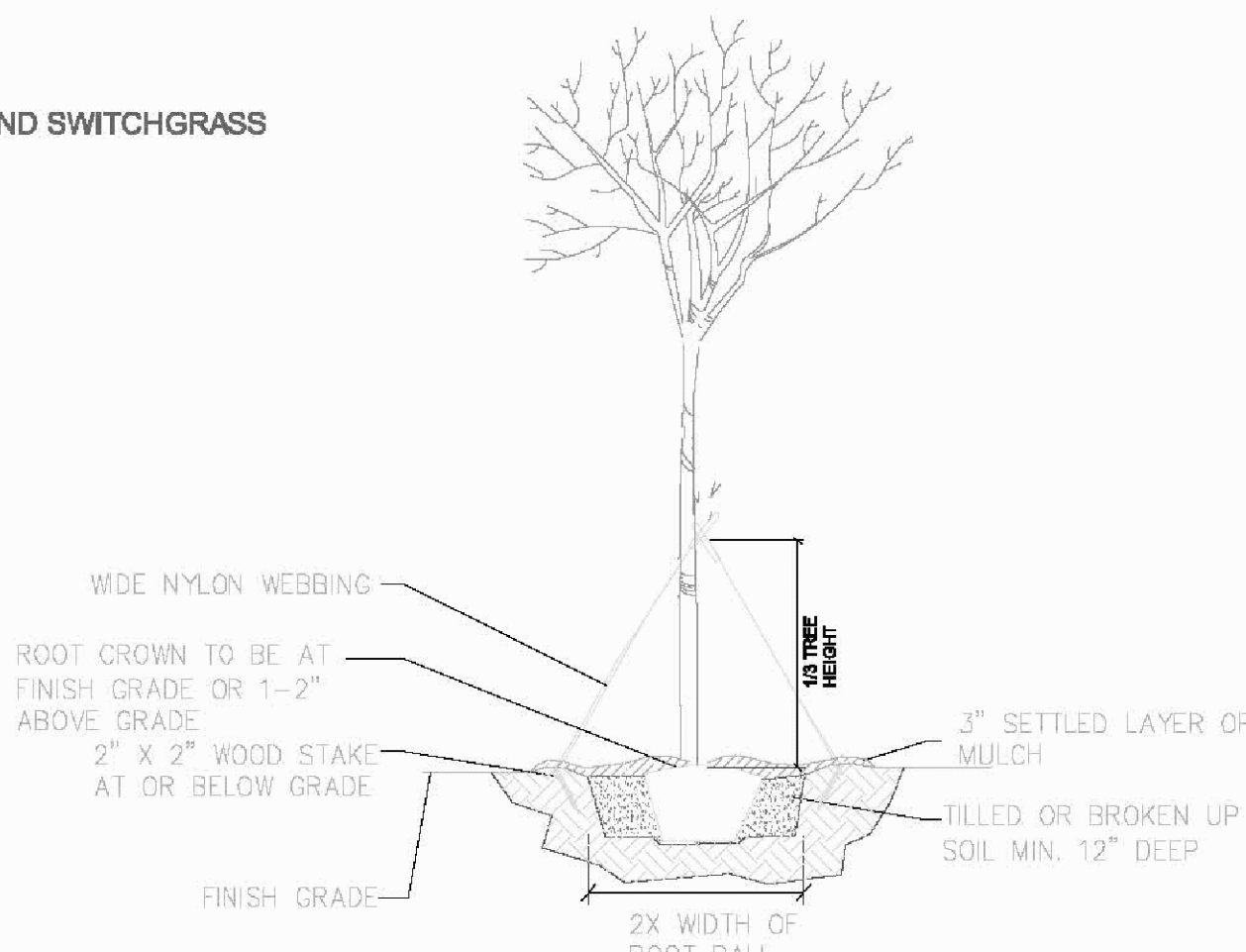
NOTES: TYPICAL SHRUB PLANTING, INDIVIDUAL PLANTING HOLE

1. DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER.
2. SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL.
3. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2" ABOVE IF THE SOIL IS PRONE TO SETTLING.
4. IF CONTAINER GROWN PLANT, GENTLY SLIDE PLANT OUT OF CONTAINER. DISTURB THE ROOTS.
5. IF B&B PLANT, REMOVE BURLAP FROM AT LEAST THE TOP 12 INCHES OF THE ROOTBALL, WITHOUT DISTURBING THE ROOTBALL. REMOVE ALL CORD FROM THE TRUNK. REMOVE BURLAP AND WIRE BASKET (IF PRESENT) FROM THE ROOT BALL.
6. BACK FILL THE PLANTING HOLE WITH EXCAVATED NATIVE SOIL, BROKEN UP OR TILLED. WATER TO REMOVE AIR POCKETS. DO NOT ADD AMENDMENTS.
7. PLACE PINE STRAW OR BARK MULCH ON THE SURFACE TO A (SETTLED) DEPTH OF 1 TO 3 INCHES.



SHRUB PLANTING

NOT TO SCALE



TREE PLANTING

NOT TO SCALE

Revisions

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Project Code
CCW-2201

Project Title
New Car Wash
for
COWBOY EXPRESS CARWASH

3601 SW Hollywood Drive
LEE SUMMIT, MISSOURI 64082

Drawing Title
Landscape Plan, Schedules and Notes

Date Drawn Checked
01-21-24 DB/mm MM/MA

Drawing Number
L-01

1. GC SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES. ALL WORK SHALL COMPLY WITH 2018 INTERNATIONAL BUILDING CODE AND OTHER APPLICABLE LOCAL CODES AND ORDINANCES.
2. FURNITURE SHOWN TO BE PROVIDED AND INSTALLED BY TENANT. FURNITURE IS MODULAR.

3. PROVIDE FIRE EXTINGUISHERS IN ALL AREAS, VERIFY QUANTITY, SIZE, TYPE AND LOCATION WITH LOCAL FIRE OFFICIALS.
4. GC TO COORDINATE WORK WITH PRE-ENGINEERED BUILDING MANUFACTURER DRAWINGS, BUILDING SHOP DRAWINGS TO BE REVIEWED BY ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION.
5. ALL NEW INTERIOR METAL STUD WALLS SHALL BE AS NOTED ON PLAN. SEE WALL SECTIONS. EXTEND GIB TO 6" ABOVE FINISHED CEILING UNLESS NOTED OTHERWISE

6. PROVIDE FIRE RETARDANT WOOD BLOCKING IN NEW WALLS FOR SUPPORT AT NEW GRAB BARS PER INTERNATIONAL BUILDING CODE AND ADA REQUIREMENTS.
7. GC TO COORDINATE WORK WITH CIVIL SITE DESIGN BEING SUBMITTED FOR PERMIT UNDER SEPARATE COVER. SITE WORK WILL INCLUDE PAVING, DRAINAGE, NEW SITE LIGHTING, ETC.

8. GC TO COORDINATE CONNECTION OF BUILDING UTILITIES TO EXISTING SITE UTILITIES. SEE CIVIL (BY OTHERS)
9. ALL INTERIOR WALLS SHALL BE METAL STUDS WITH 3/8" GWB EACH SIDE TO 6" ABOVE CEILING OR TO STRUCTURE WHERE NOTED. SEE WALL SECTIONS AND STRUCTURAL DRAWINGS. PROVIDE 6" WALL AT PLUMBING FIXTURES.

PRE-ENGINEERED BUILDING MANUFACTURER SHALL PROVIDE COMPLETE BUILDING DRAWINGS SEALED BY A KANSAS LICENSED ENGINEER FOR SUBMITTAL TO LOCAL AUTHORITIES FOR PERMIT REVIEW AND APPROVAL. FOUNDATION DESIGN IS BASED UPON REACTIONS PROVIDED BY THE BUILDING MANUFACTURER.



- 1 WINDOW STOOLS - COORDINATE MATERIAL WITH OWNER (TYP. ALL WINDOWS.)
- 2 ELECTRICAL SERVICE ENTRANCE COORDINATE WITH OWNER
- 3 REFER TO WALL SECTIONS FOR MORE INFORMATION REGARDING EXTERIOR WALL TYPE
- 4 THROUGH WALL SCUPPER WITH SEMI ENCLOSED DOWNSPOUTS DOWN TO 6" ABOVE GRADE. PROVIDE SPLASH BLOCK AT EACH LOCATION.
- 5 GAS METER LOCATION COORDINATE WITH OWNER AND PLUMBING DRAWINGS
- 6 EXPOSED STEEL TUBE COLUMN. REFER TO STRUCTURAL SIZE - COORDINATE COLOR WITH OWNER - PAINTED
- 7 DASHED LINE INDICATES GENERAL LOCATION OF TRENCH AND PIT LOCATIONS. COORDINATE EXACT LOCATIONS WITH EQUIPMENT SUPPLIER AND STRUCTURAL DRAWINGS
- 8 CONCRETE FILLED BOLLARD COORDINATE PAINT COLOR WITH OWNER.
- 9 NEW 3'-0" ALUM. AND GLASS DOOR WITH ALUM. AND GLASS SIDE LITE TO - EQUIP. WITH HARDWARE TO MEET CODE (TEMP. GLASS)
- 10 FLUSH ENTRY DOOR WITH ACCESSIBLE MEANS OF EGRESS - ACCESSIBLE PATH OF TRAVEL TO PUBLIC WAY / AND ACCESSIBLE PARKING SPACES.
- 11 FREEZE PROOF HOSE BIBB - COORDINATE EXACT LOCATION.
- 12 EXHAUST FAN TO EXTERIOR-(SEE GENERAL NOTES-HVAC).
- 13 PROVIDE 10 LB. ABC FIRE EXTINGUISHERS WITH WALL MOUNTED BRACKET - COORDINATE EXACT LOCATIONS WITH LOCAL FIRE DISTRICT.

CERAMIC TILE * CT CONCRETE STAINED / DYED * CONC.		GYPSUM BOARD - PAINTED * GBp GYPSUM BOARD (WR) - PAINT * GBwp		VINYL BASE (COVE) * V ACOUSTICAL 2x4 BOARD * AB		
RM. #	ROOM NAME	FLOOR	BASE	WALLS	CLQ. / HGT.	REMARKS
100	LOBBY	STAINED CONC.	V	GBp	AB / 9'-0"	COORDINATE WITH OWNER
101	OFFICE	STAINED CONC.	V	GBp	AB / 9'-0"	REFER FINISH SPEC.
102	RESTROOM	STAINED CONC.	V	GBp	AB / 9'-0"	REFER FINISH SPEC.
103	HALLWAY	STAINED CONC.	V	GBp	AB / 9'-0"	REFER FINISH SPEC.
104	EQUIPMENT ROOM	CONC.	METAL PANELS COORD WITH OWNER		EXPOSED STRUCT.	REFER FINISH SPEC.
105	TUNNEL - CAR WASH	CONC.	METAL PANELS COORD WITH OWNER		EXPOSED STRUCT.	REFER FINISH SPEC.

GENERAL FINISH NOTES:

- ALL EXPOSED SURFACES TO BE PAINTED - COORDINATE WITH OWNER
- COORDINATE FINISHES WITH OWNER. COORDINATE BASE LOCATION WITH OWNER.
- GC SHALL PREP ALL SURFACES TO RECEIVE PAINT. THIS INCLUDES SCRAPING, BLOCK FILL, PRIMER, ETC. AS NEEDED TO PROVIDE A NEW PAINT FINISH.
- ALL FLOORS SHALL BE PREPARED AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- ALL WET WALLS TO BE (WR) WATER RESISTANT GYPSUM BOARD.
- CONTRACTOR TO COORDINATE INSTALLATION LOCATION OF INFORMATION-PAY CENTER KIOSK AND ANY ART PACKAGE.

KEYNOTES

- 903 - 3/8" METAL STUDS
- 906 - 6" METAL STUDS
- 911 - DRYWALL FURRING CHANNEL (1/8" HAT)
- 921 - 5/8" GYPSUM BOARD
- 921x - 1/2" TYPE "X" GYPSUM BOARD
- S - BOTTOM OF STRUCTURE
- C - CEILING RE: FIN. SCHED.
- F - FLOOR RE: FIN. SCHED.

NOTE:
WATER RESISTANT GYPSUM BOARD AT ALL WET WALLS

ALL INTERIOR DOORS SHALL BE BLDG STANDARD DOORS AND FRAMES WITH SCHLAGE OR EQUAL ADA APPROVED BRUSHED CHROME LEVER HARDWARE. THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOT REST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. DOORS AND HARDWARE SHALL BE INSTALLED PER CODE. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60". THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 18" OF THE INTERIOR DOORS AND BE CAPABLE OF OPENING SO THAT THE CLEAR WIDTH OF THE EXIT IS NOT LESS THAN 32". HARDWARE TO BE OPERABLE BY A SINGLE EFFORT (LEVERS, PUSH-PULLS OR PANIC DEVICES); NO GRASPING OR WRIST MOVEMENT OPERATION ALLOWED. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:

INTERIOR DOORS - 5 POUNDS

The drawings show the following details for each window type:

- AL1 CAR WASH TUNNEL:** A large rectangular window with a width of 9'-4" and a height of 8'-0". It features three vertical panes. The top section has a height of 2" and a width of 2". The bottom section has a height of 1'-6". The glass is 1" clear temp. insul. glass (typical).
- AL2:** A rectangular window with a width of 5'-0" and a height of 4'-2". It features two vertical panes. The glass is 1" clear temp. insul. glass (typical).
- AL3:** A complex window assembly with a total width of 8'-0" and a height of 8'-0". It features three vertical panes. The top section has a height of 1" clear temp. insul. glass (typical). The bottom section has a height of 5'-0". The panes are 2'-4" wide, 3'-4" high, and 2'-4" wide. The glass is 1" clear temp. insul. glass (typical).
- AL4:** A rectangular window with a width of 3'-0" and a height of 4'-8". It features one vertical pane. The glass is 1" clear temp. insul. glass (typical).
- AL5:** A rectangular window with a width of 10'-0" and a height of 4'-8". It features two vertical panes. The glass is 1" clear temp. insul. glass (typical).
- AL6 CLERESTORY:** A rectangular window with a width of 8'-0" and a height of 4'-0". It features one vertical pane. The glass is 1" clear temp. insul. glass (typical).

Additional notes include "13'-0" AFF. SEE ELEVATIONS" for AL6 and "1" CLEAR TEMP. INSUL. GLASS (TYPICAL)" for all windows.

MARK LABEL	COUNT	DESCRIPTION	COMMENTS
AL1	10	1" INSULATED CLEAR TEMPERED GLASS WITH 2 1/2 x 4 1/2 CLEAR ANODIZED ALUMINUM SASH	Uo <= 0.47, SHGC <= 0.70
AL2	1	1" INSULATED CLEAR TEMPERED GLASS WITH 2 1/2 x 4 1/2 CLEAR ANODIZED ALUMINUM SASH	Uo <= 0.47, SHGC <= 0.70
AL3	2	1" INSULATED CLEAR TEMPERED GLASS WITH 2 1/2 x 4 1/2 CLEAR ANODIZED ALUMINUM SASH	Uo <= 0.47, SHGC <= 0.70
AL4	1	1" INSULATED CLEAR TEMPERED GLASS WITH 2 1/2 x 4 1/2 CLEAR ANODIZED ALUMINUM SASH	Uo <= 0.47, SHGC <= 0.70
AL5	1	1" INSULATED CLEAR TEMPERED GLASS WITH 2 1/2 x 4 1/2 CLEAR ANODIZED ALUMINUM SASH	Uo <= 0.47, SHGC <= 0.70
AL6	12	1" INSULATED CLEAR TEMPERED GLASS WITH 2 1/2 x 4 1/2 CLEAR ANODIZED ALUMINUM SASH	Uo <= 0.47, SHGC <= 0.70

(A) INTERIOR WOOD DOOR
HOLLOW METAL FRAME PAINTED

(B) HOLLOW METAL DOOR
PAINTED

(C) CLEAR ANODIZED ALUM. FINISH
POLYCARBONATE PANEL SECTIONS



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CCW-2201

New
Car Wash
for
COWBOY
EXPRESS
CARWASH

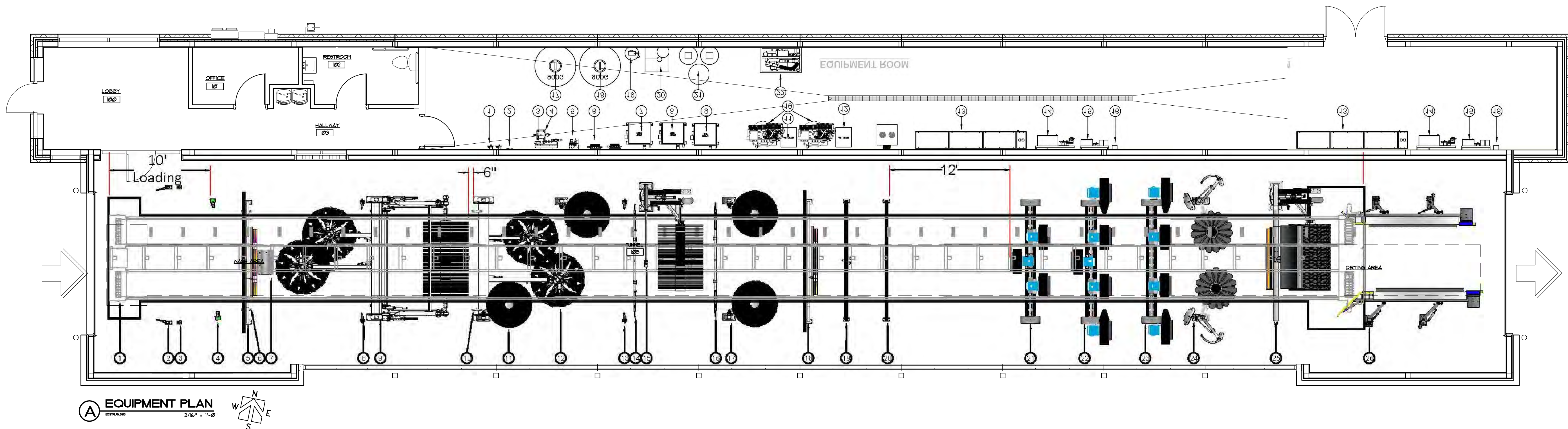
**Floor Plan,
Schedules and
Notes**

Date	Drawn	Checked
01-21-24	DB/mm	MM/M

A1

EQUIPMENT ROOM SCHEDULE

- | | | | |
|---|--|---|--|
| 1 EQUIPMENT AIR PANELS
(CONVEYOR, WRAP, TIRE BRUSH, TOP WHEEL, SIDE WHEELS) | 2 MAIN AIR MANIFOLD
(1 OF 2) | 3 ACCUSHOT DILUTION SYSTEM | 4 GRUNDFOS PUMP
(80GPM 7.5HP) |
| 5 SINGLE NON-FOAM DILUTION STATION
(11VDC/MINOR FOR BUG PREP) | 6 (2) 4PORT NON-FOAM DILUTION STATION | 7 SINGLE HIGH PRESSURE PUMP STATION
(7.5HP 50PM FOR PREP GUNS)
(W/HP PREP TIMER BUTTON BOX) | 8 SINGLE HIGH PRESSURE PUMP STATION
(15HP 180PM FOR WHEEL BLASTER) |
| 9 SINGLE HIGH PRESSURE PUMP STATION
(15HP 180PM FOR AXIS SIDE BLASTER) | 10 (2) AIR COMPRESSOR
(10HP, 35CFM) | 11 AIR DRYER
(30CFM) | 12 AIR DRYER
(60CFM) |
| 13 GEN 2 PANEL - CRUZCONTROL
(150HP / 250A / 200FLA / 480V) | 14 DRY-N-SHINE CONTROL PANEL
(ELECTRICAL / AIR / DILUTION STN ON DIAMOND PLATE BOARD) | 15 SPIN SHINE CONTROL PANEL | 16 ANTI-COLLISION CONTROL BOX |
| 17 WATER STORAGE TANK
(V-TORQUE 3000L 62" X 122" VERTICAL)
(FOR RO 16 POT FREE) | 18 WATER STORAGE TANK
(V-TORQUE 3000L 62" X 122" VERTICAL)
(FOR REJECT) | 19 R/O REJECT CAPTURE PUMP
(3HP) | 20 R/O UNIT
(NFR1000 12000GPD RO 2HP/50PM)
(WITH 20GPM SPR PRESSURE PUMP 3HP/50PM) |
| 21 WATER SOFTENER
(NF-CAT300-20WS 600,000 GR, 146GPM 2" DUAL TANK) | 22 SOBRITE - RECLAIM UNIT
(VER30100-S) | | |



A EQUIPMENT PLAN
3/16\"/>

FOR REFERENCE ONLY.
REFER TO SITE SPECIFIC EQUIPMENT
MOTOR CITY WASH WORKS, INC.
48285 FRANK STREET, WIXOM, MI 48393 -
WWW.MOTORCITYWASHWORKS.COM

CARWASH TUNNEL EQUIPMENT SCHEDULE

- | | | | |
|--|---|---|--|
| 1 125' MINDA BELT CONVEYOR | 2 HIGH PRESSURE PREP GUNS | 3 MANUAL BUG PREP GUNS | 4 ENTRANCE PHOTO EYES |
| 5 GRAND ENTRY ARCH
(WITH FOAM WALL / LED / SINGLE FOAM ELBOW) | 6 COLOR SKIN WTA | 7 BUG PREP FLOOR MANIFOLD | 8 HIGH PRESSURE WHEEL BLASTERS
(150PM PIVOTING) |
| 9 ELECTRIC WRAP/TOP WHEEL MODULE
(ENTRANCE WRAP) | 10 COLOR SKIN WTA | 11 MOTOR CITY LOW RIDER ELECTRIC | 12 EXIT WRAPS ELECTRIC |
| 13 HIGH PRESSURE AXIS SIDE BLASTERS
(180PM PIVOTING) | 14 CEILING MOUNTED RAIN BAR | 15 ACCELERATOR TOP WHEEL
(DRIVER SIDE WITH TRUCK SENSOR PACKAGE "SONAR") | 16 CEILING MOUNTED FOAMING RAIN BAR |
| 17 MOTOR CITY HIGH BOY ELECTRIC | 18 GRAND ENTRY ARCH | 19 COLOR SKIN ARCH
(TRIPLE MANIFOLD 1/2\"/> | 20 COLOR SKIN ARCH
(SINGLE V-NOZZLE RINSE/AX) |
| 21 30HP AIR ONE DRYER SYSTEM
(WITH ENERGY GATES) | 22 50HP AIR ONE DRYER SYSTEM
(WITH ENERGY GATES) | 23 40HP AIR ONE DRYER SYSTEM
(WITH ENERGY GATES) | 24 DRY-N-SHINE SIDE WHEELS |
| 25 DRY-N-SHINE TOP WHEEL
(DRIVER SIDE) | 26 SPIN SHINE ELECTRIC | | |

Revisions



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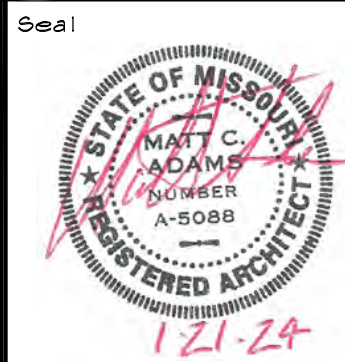


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Project Code

CCW-2201

Project Title

**New
Car Wash**

for

**COWBOY
EXPRESS
CARWASH**

3601 SW Hollywood Drive
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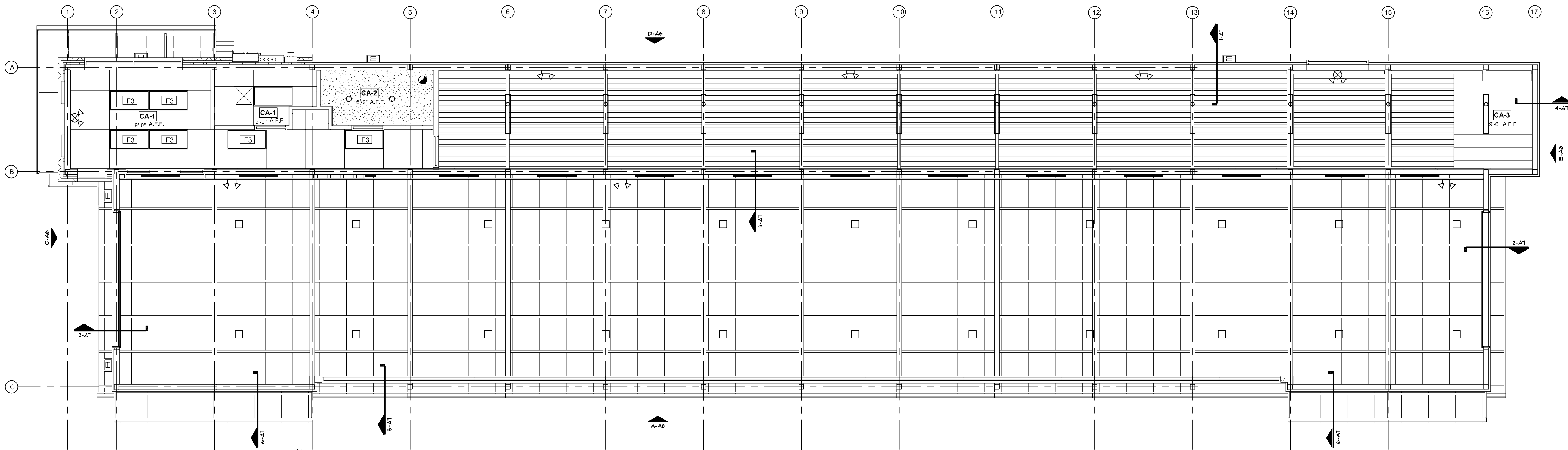
Drawing Title

**Equipment Plan,
Schedules and
Notes**


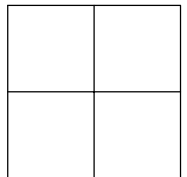



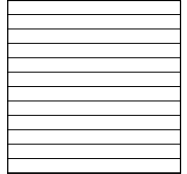
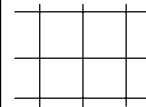

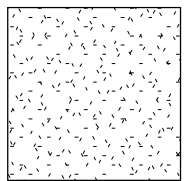



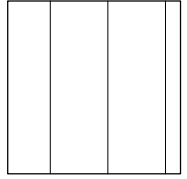
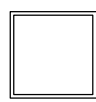

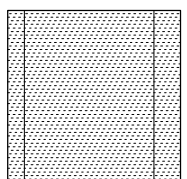


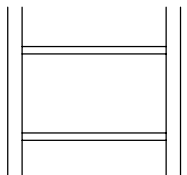

Date Drawn Checked
01-21-24 DB/mm MM/MA

Drawing Number

A2



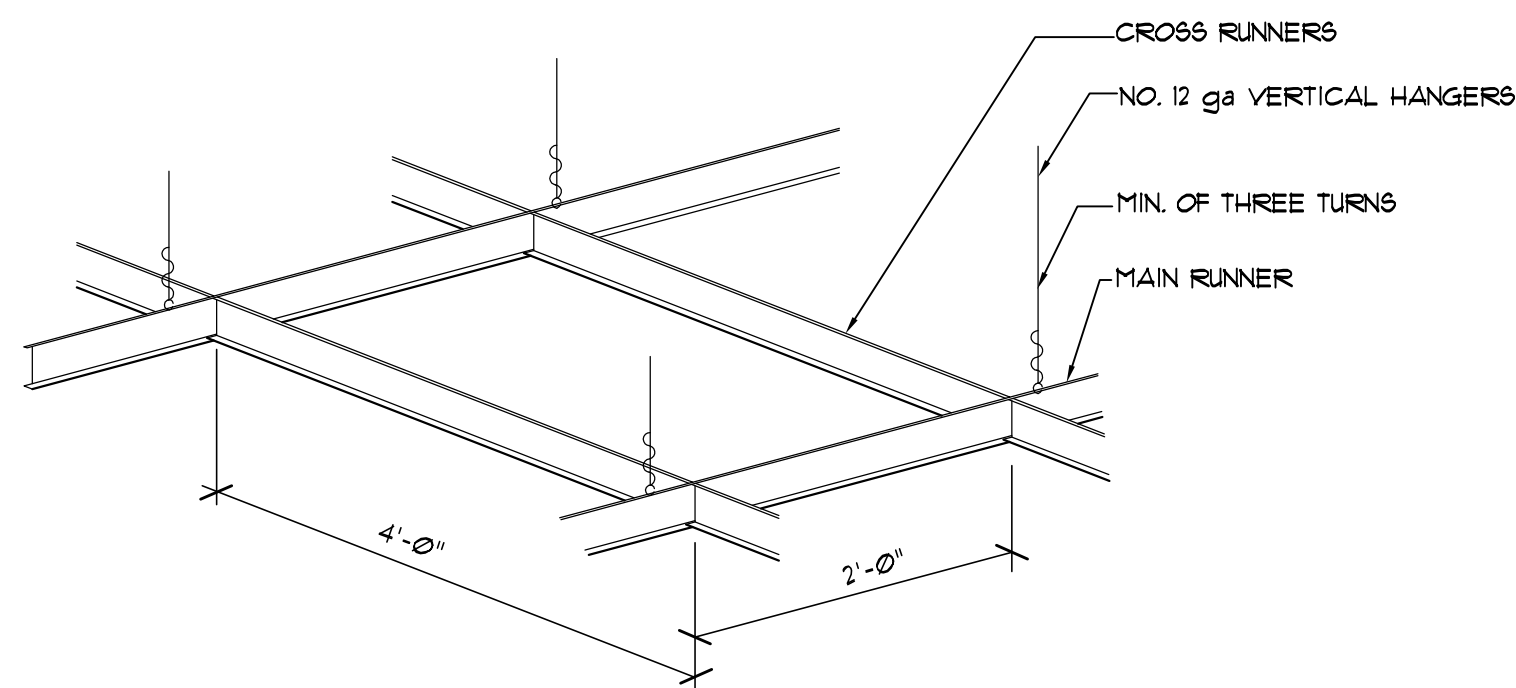
REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING / ELECTRICAL LEGEND			
	COMBINATION EXIT AND EMERGENCY LIGHT		ACOUSTICAL CEILING TILE
	EMERGENCY LIGHT		
	CAN LIGHTS		
	CEILING HEIGHT		EXPOSED METAL DECK
	NEW 2 x 4 ACOUSTICAL LAY-IN-CLG. BOARD AND TRACK		
	2'x4' LED LIGHTING		GYPSUM BOARD CEILING
	DIFFUSER		
	RETURN AIR		
	EXHAUST FAN		PVC CEILING
	TROUGHER 2x2		
	TROUGHER 2x4		POLYCARBONATE CEILING
	LINEAR LIGHT FIXTURE		
	EXTERIOR WALL SCONCE		EXPOSED STEEL STRUCTURE
	EXTERIOR SURFACE MOUNTED LIGHTING FIXTURE		
NOTE: PROVIDE NEW SUSPENDED CEILING GRID AND NEW CEILING PANELS THROUGHOUT AREA AS INDICATED. CEILING PANELS SHALL BE 2'x4' SMOOTH FACED WHITE WITH WHITE 3/4" METAL GRID. COORDINATE ALL FINISHED CEILING HEIGHTS.		ALL HVAC WORK TO BE VERIFIED AND COORDINATED WITH G.C. COORDINATE SWITCHING OF ELECTRICAL COMPONENTS WITH ELECTRICAL PLANS CONTRACTOR TO COORDINATE ALL PHONE JACK AND INTERNET COMMUNICATION LOCATIONS.	

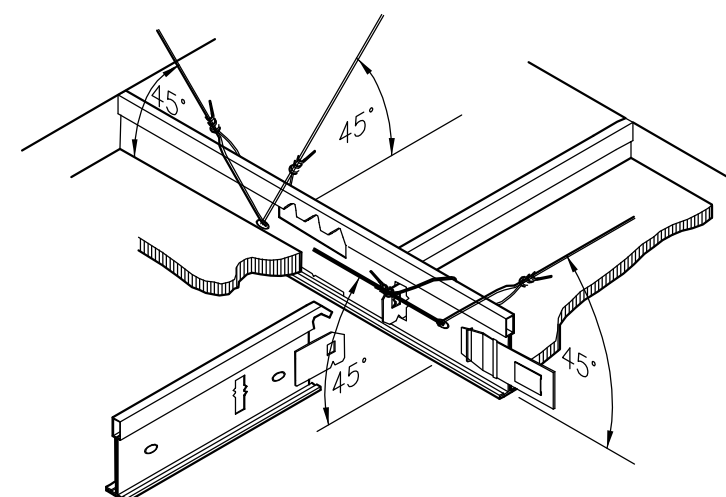
FIXTURE KEY LEGEND			
	F1 8'-0" LED STRIP-LIGHT		F5 COLOR CHANGING LED LIGHT STRIP
	F2 LED WALL PACK		F6 WHITE UTILITY LIGHT MOUNTED ABOVE WINDOW
	F3 RECESSED 2X4 LED TROUGHER		F7 4'-0" LED STRIP-LIGHT
	F4 6" RECESSED LED CAN LIGHT		

SEISMIC NOTES

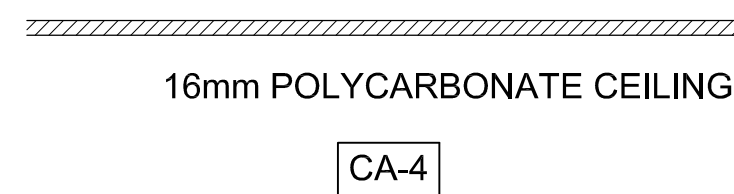
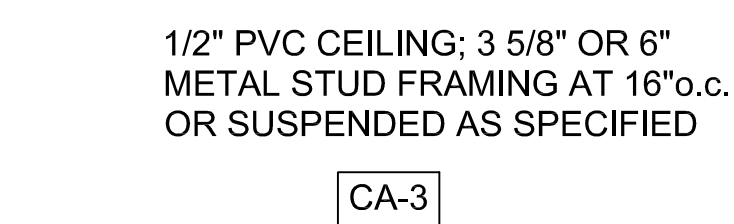
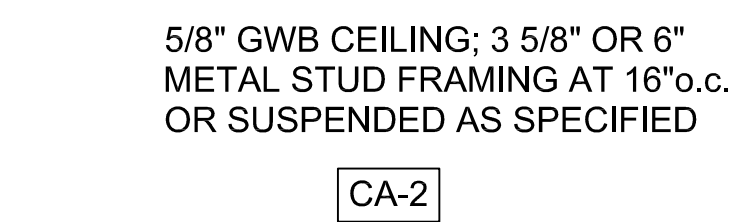
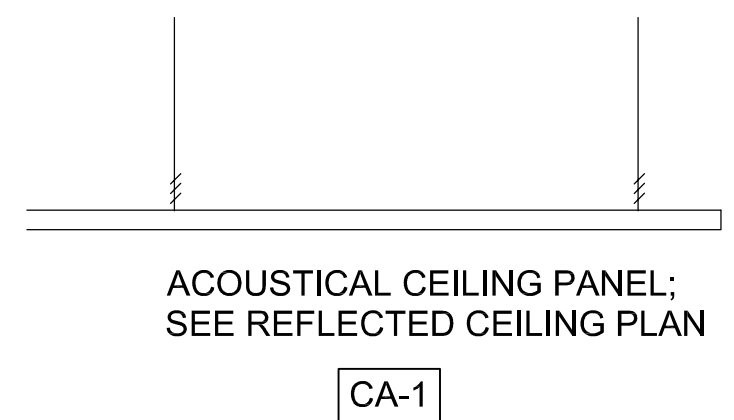
- SUSPENDED CEILINGs GREATER THAN 144 SQUARE FEET IN AREA SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.
 - THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2". IN EACH ORTHOGONAL HORIZONTAL DIRECTION ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON THE 2" CLOSURE ANGLE. THE MAIN AND CROSS RUNNERS SHALL BE TIED TOGETHER TO PREVENT TWISTING.
 - PROVIDE NO. 12 GAUGE VERTICAL SUPPORT WIRES ON THE MAIN AND CROSS RUNNERS A MAXIMUM DISTANCE OF 8' FROM THE WALL. ADDITIONAL VERTICAL SUPPORT WIRES ARE NEEDED IN THE FOLLOWING LOCATIONS:
 - 4' ON CENTER SPACING ALONG THE MAIN RUNNER.
 - LIGHT FIXTURES MUST BE POSITIVELY ATTACHED TO THE CEILING GRID WITH AN ATTACHMENT CAPABLE OF CARRYING 100% OF THE WEIGHT OF THE LIGHT FIXTURE. LIGHT FIXTURES WEIGHING UP TO 56 POUNDS REQUIRE TWO VERTICAL SUPPORT WIRES. THESE WIRES MAY BE SLACK. LIGHT FIXTURES WEIGHING MORE THAN 56 POUNDS SHALL REQUIRE INDEPENDENT SUPPORT FROM THE SHELL BUILDING STRUCTURE ABOVE THE CEILING.
 - MECHANICAL AIR TERMINALS WEIGHING LESS THAN 20 POUNDS SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID. AIR TERMINALS WEIGHING 20 POUNDS BUT NOT MORE THAN 56 POUNDS SHALL BE SECURED TO THE SHELL BUILDING STRUCTURE ABOVE THE CEILING IN ADDITION TO ATTACHING THE AIR TERMINAL TO THE CEILING GRID. THESE TWO NO. 12 GAUGE WIRES MAY BE SLACK. AIR TERMINALS WEIGHING MORE THAN 56 POUNDS SHALL REQUIRE INDEPENDENT SUPPORT FROM THE SHELL BUILDING STRUCTURE ABOVE THE CEILING.
- SPRINKLER HEADS AND OTHER PENETRATIONS OF THE SUSPENDED CEILING SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER TO ALLOW 1" HORIZONTAL MOVEMENT IN ALL DIRECTIONS.
- ALL WALL PARTITIONS GREATER THAN 6' IN HEIGHT SHALL BE INDEPENDENTLY BRACED TO THE BUILDING SHELL STRUCTURE. WALL PARTITIONS MAY NOT BE SUPPORTED BY THE BRACED SUSPENDED CEILING ALONE.
- SUSPENDED CEILINGs EXCEEDING 1000 SQUARE FEET IN AREA REQUIRE FOUR NO. 12 GAUGE SPLAY WIRES AND A RIGID VERTICAL COMPRESSION STRUT EVERY 12 FEET ON CENTER STARTING A MAXIMUM OF 6 FEET FROM EACH WALL. THE SPLAY WIRES SHALL BE SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 45 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING.
- SUSPENDED CEILINGs EXCEEDING 2500 SQUARE FEET SHALL HAVE A SEPARATION JOINT OR A FULL HEIGHT WALL PARTITION SEPARATING THE SUSPENDED CEILING INTO AREAS LESS THAN 2500 SQUARE FEET.



1 SUSPENDED GRID DETAIL
1/4" = 1'-0"



2 SUSPENSION SYSTEM DETAIL
not to scale



CEILING TYPES

Revisions



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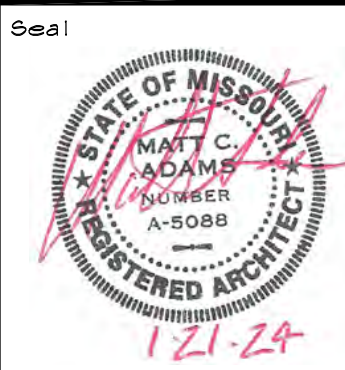


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Project Code
CCW-2201

Project Title
**New
Car Wash
for
COWBOY
EXPRESS
CARWASH**

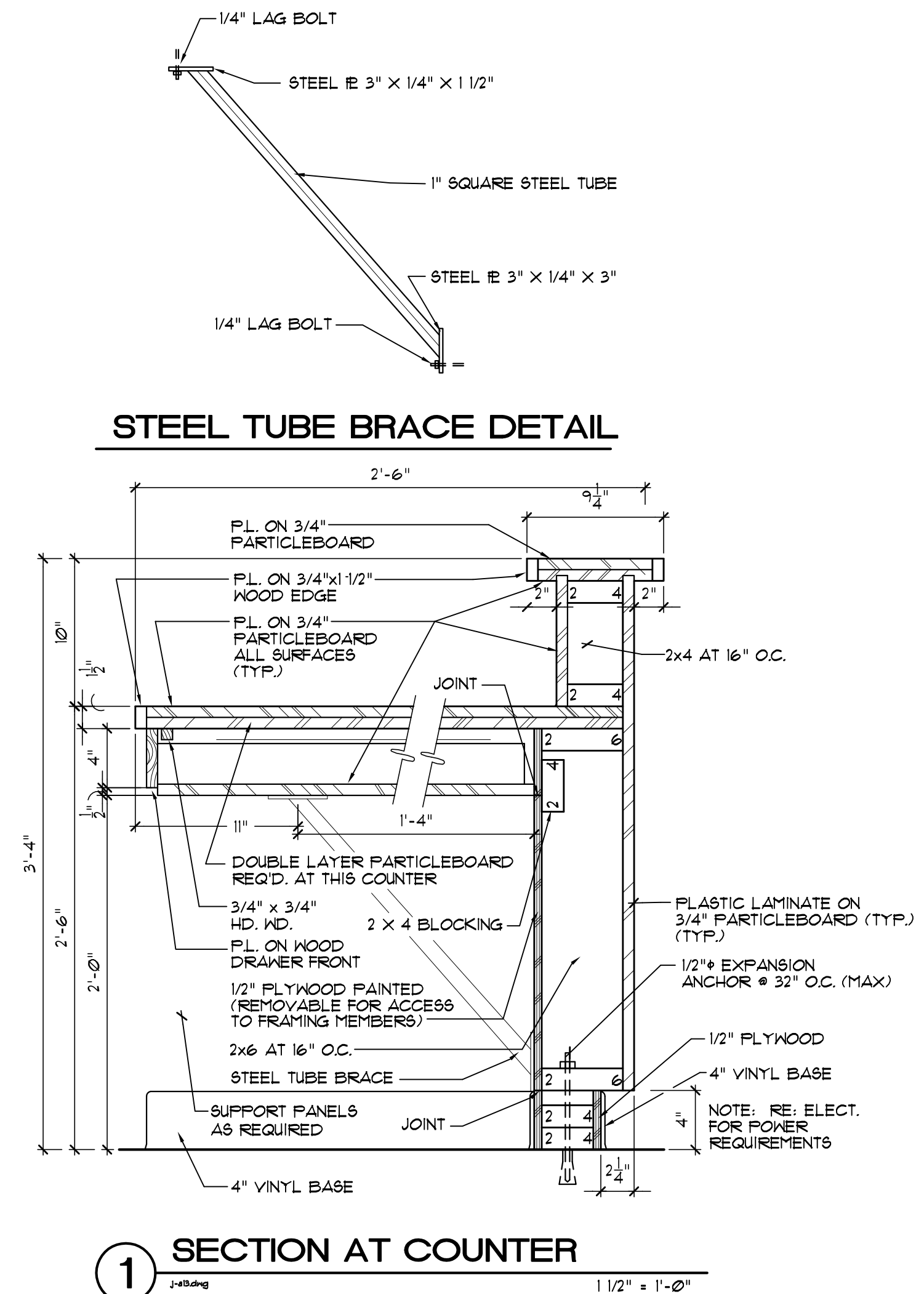
3601 SW Hollywood Drive
LEE SUMMIT, MISSOURI
64082

Drawing Title
**Reflected Ceiling
Plan, Details, Notes
and Schedule**

Date Drawn Checked
01-21-24 DB/mm MM/MA

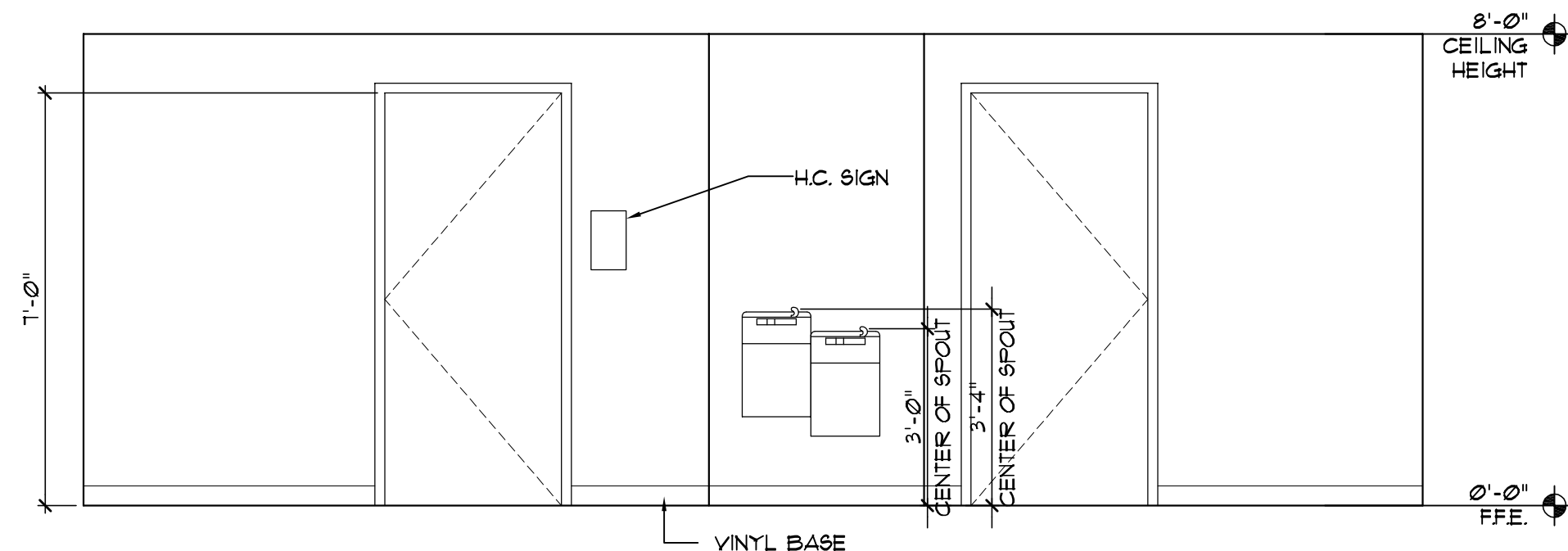
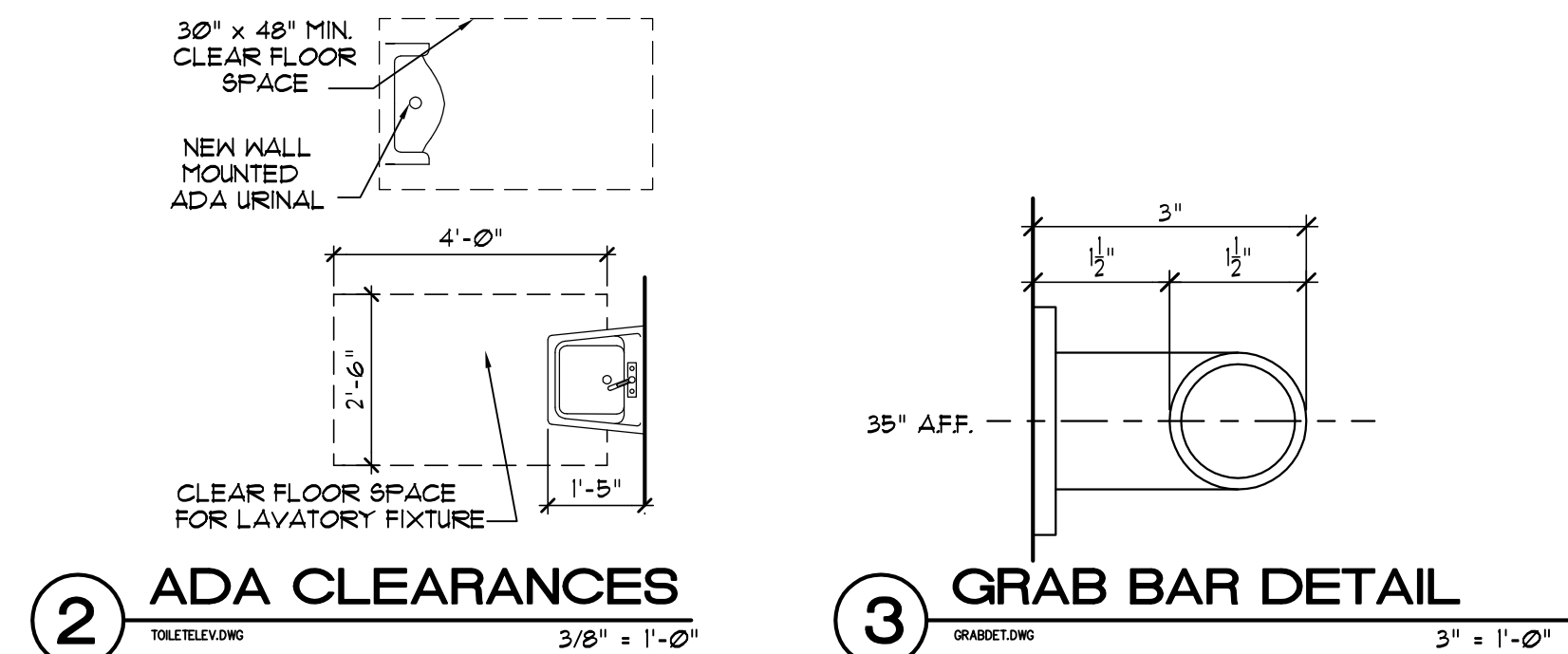
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A3



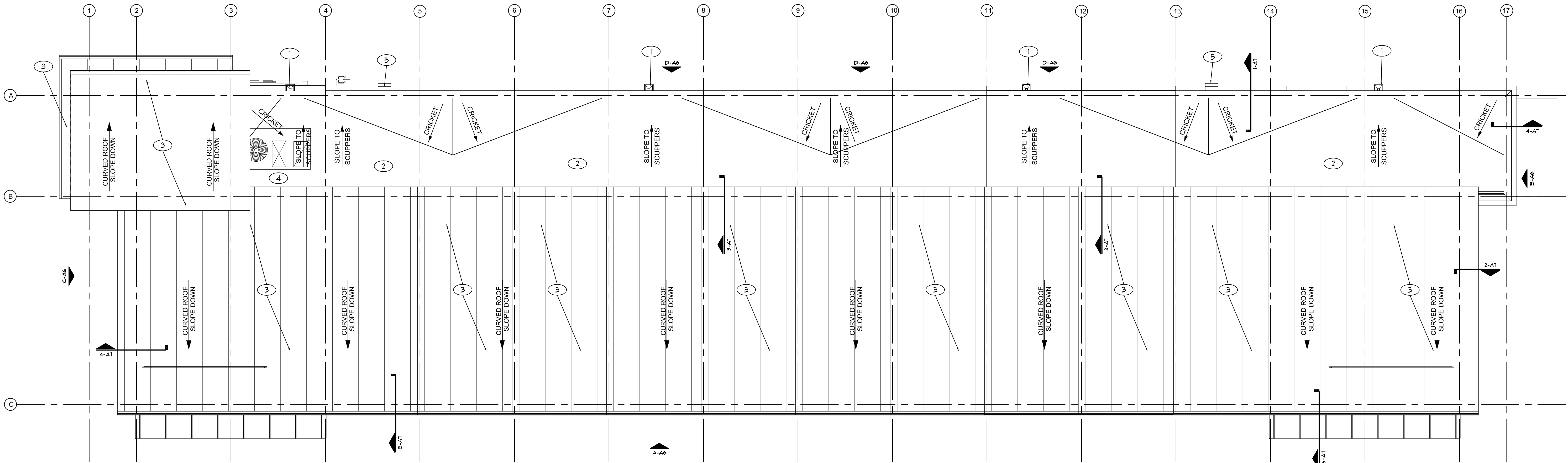
NOTES:

1. TOILET FIXTURES AND ACCESSORIES SHALL BE INSTALLED IN CONFORMANCE WITH ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
2. GRAB BARS SHALL BE 1 1/2" DIA. WITH 1 1/2" CLEARANCE BETWEEN ADJACENT WALL OR PARTITION.
3. GRAB BARS FASTENERS AND MOUNTING SUPPORTS SHALL WITHSTAND MINIMUM 250 Lb. POINT LOAD IN BENDING, SHEAR AND TORSION.
4. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
5. VERIFY EXACT QUANTITIES REQUIRED WITH PLANS AND ELEVATIONS.
6. TOILETS AND TOILET ACCESSORIES SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS.
7. TOILETS AND TOILET ACCESSORIES SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS.
8. FIELD VERIFY DIMENSIONS, FIXTURES SHALL BE CENTERED IN STALLS UNLESS OTHERWISE NOTED.
9. PROVIDE SOLID WOOD BLOCKING BEHIND ALL TOILET ACCESSORIES.



TOILETELEV.D/

(F) WATER FOUNTAIN ELEVATION - CORRIDOR 104



ROOF PLAN
DETAILING 3/16" = 1'-0"
N
W E
S

KEYED ROOF NOTES			
1	THROUGH WALL SCUPPER WITH SEMI-ENCLOSED DOWNSPOUTS DOWN TO 6" ABOVE GRADE, PROVIDE SPLASH BLOCK AT EACH LOCATION, PREFINISHED TO OWNER SELECTED COLOR.	3	20"X1" CURVED TRANSPARENT POLYCARBONATE ROOF PANELS OVER STEEL FRAMING, R-1
2	CONTINUOUS TPO MEMBRANE ROOFING.	4	MECHANICAL ROOF TOP UNIT, BY OTHERS
		5	EXTERIOR WALL PACK WITH 90 DEGREE CUTOFF, RE: ELECTRICAL.

Revisions



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Seal



Project Code

CCW-2201

Project Title

**New
Car Wash**

for

**COWBOY
EXPRESS
CARWASH**

3601 SW Hollywood Drive
LEE SUMMIT, MISSOURI
64082

Drawing Title

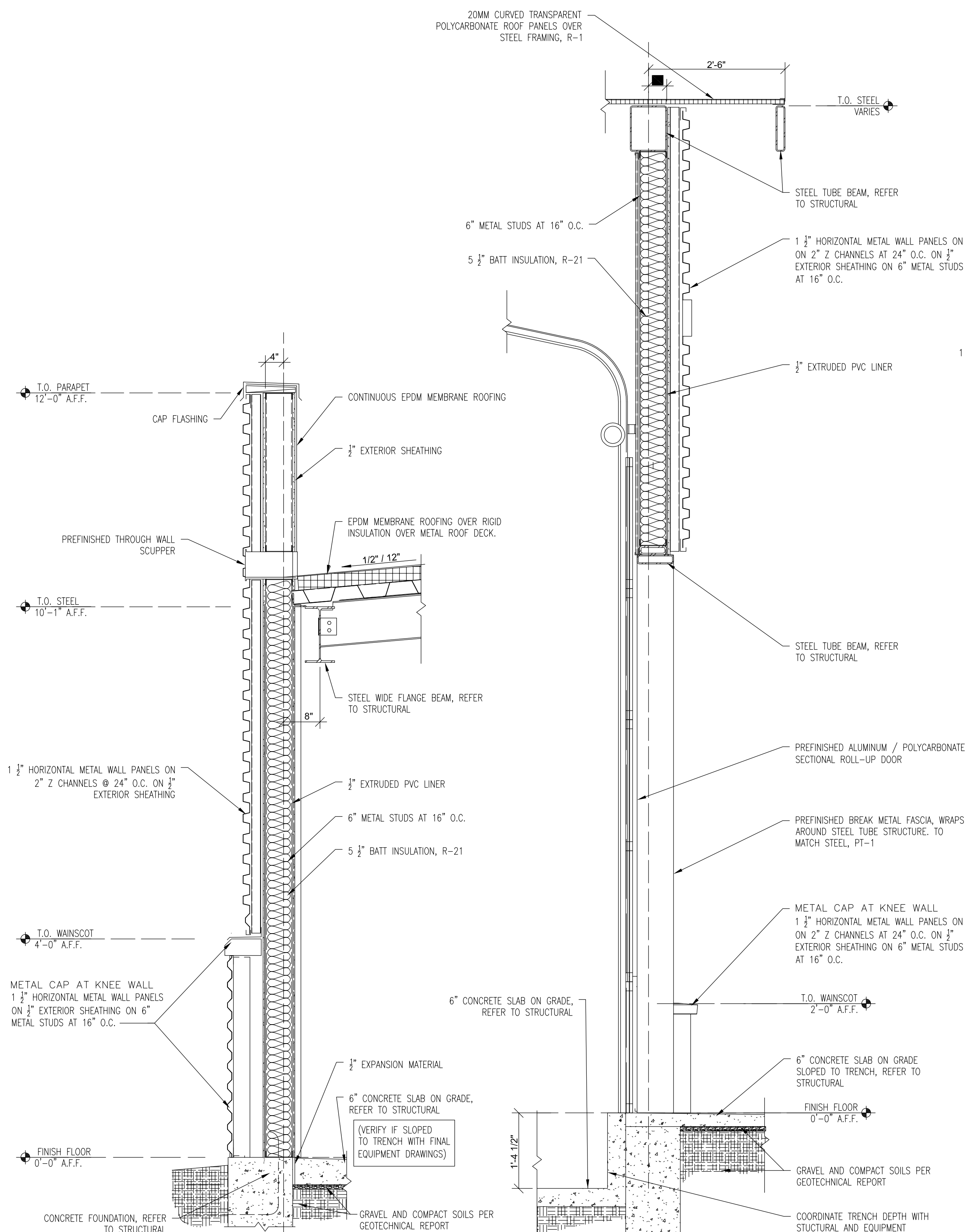
**Roof Plan, Details
and Building
Sections**

Date Drawn Checked
01-21-24 DB/mm MM/MA

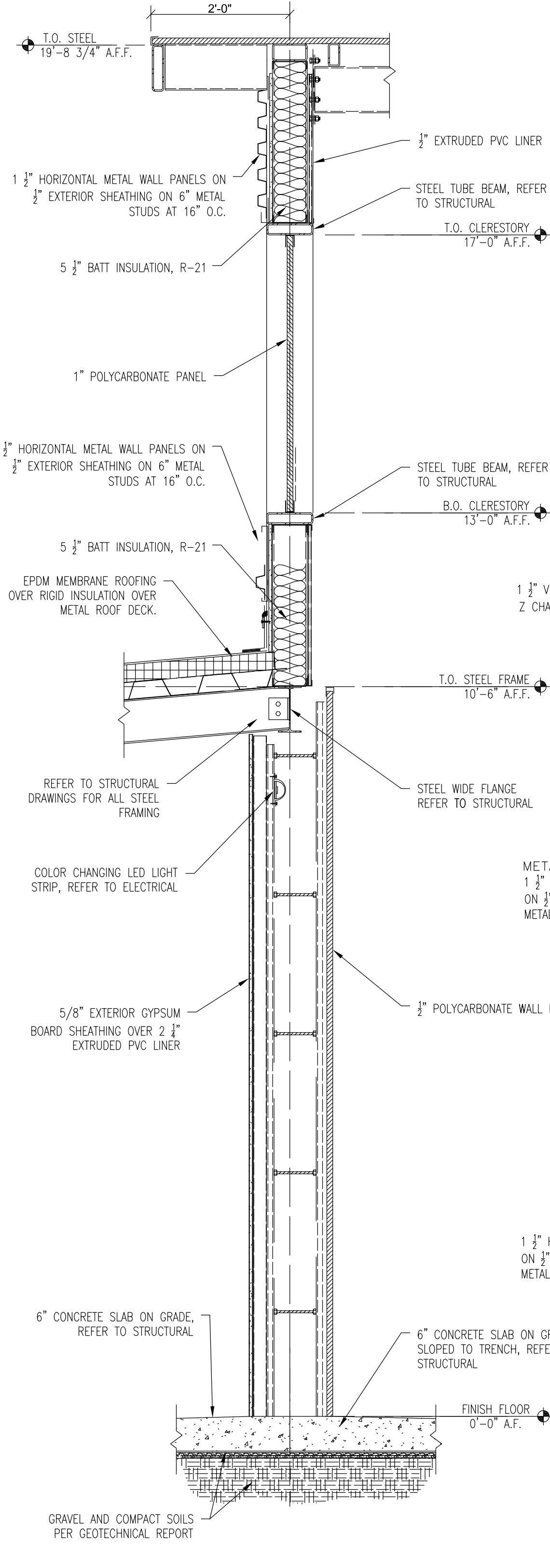
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A5

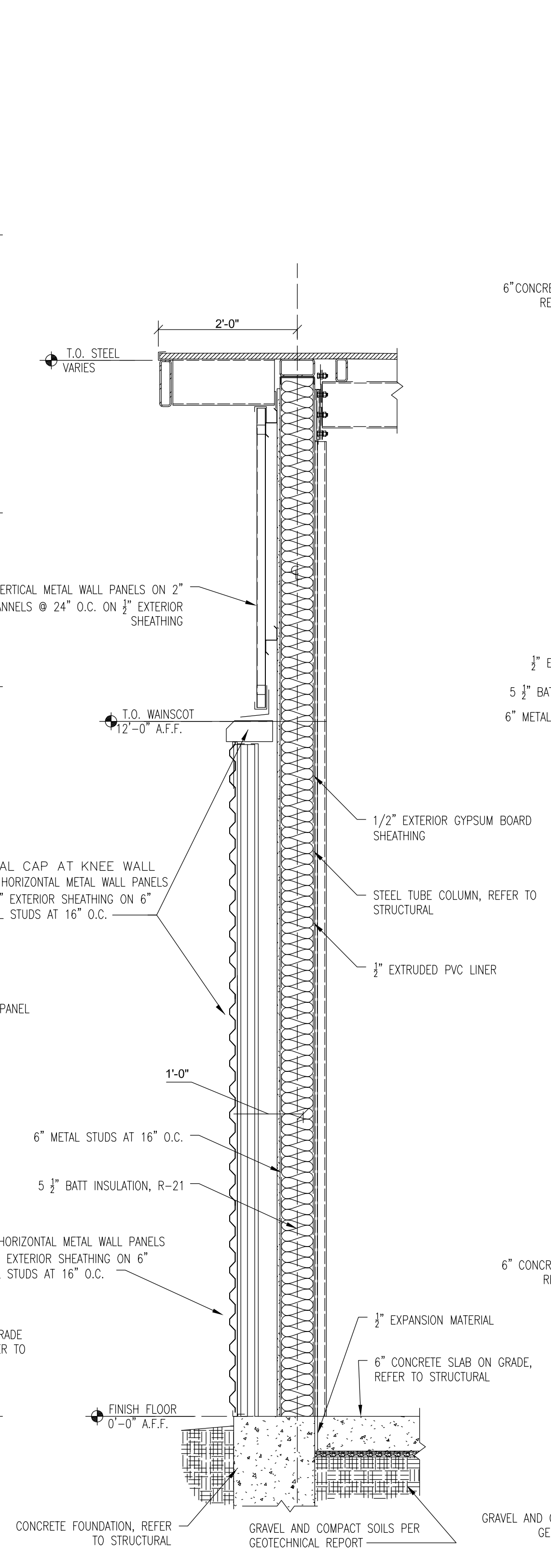
REFER TO EXTERIOR ELEVATIONS FOR
LOCATION OF STUCCO PANEL SURFACES



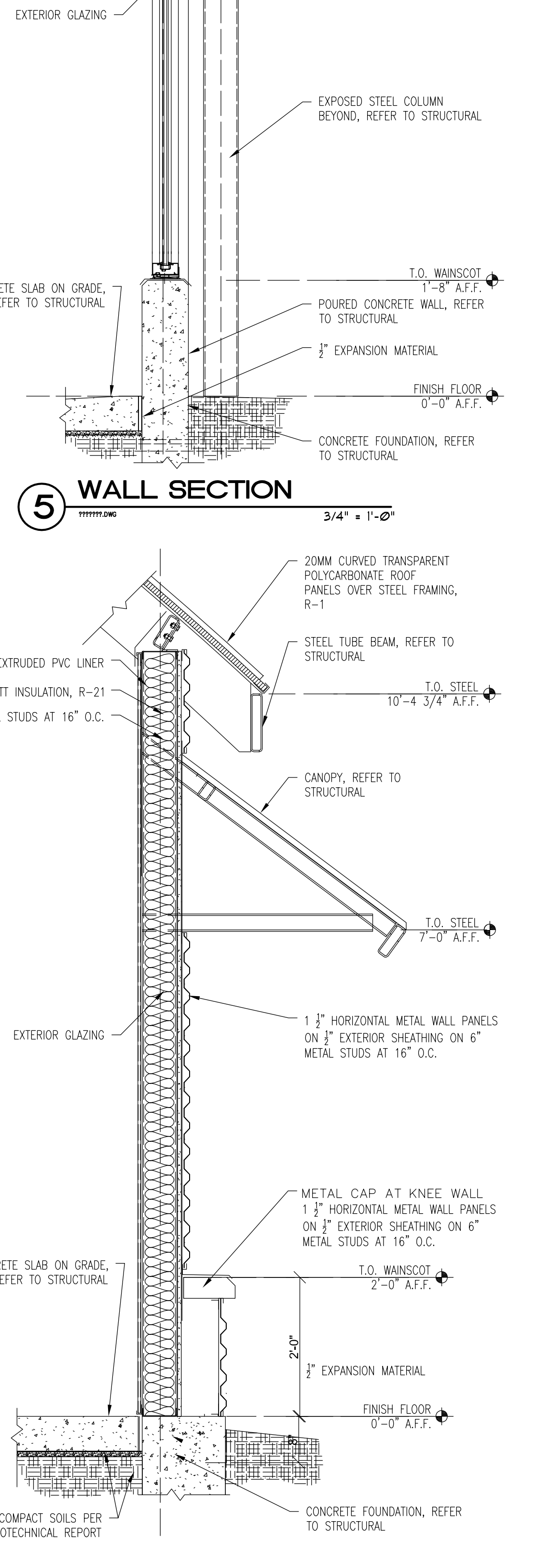
1 WALL SECTION
3/4" = 1'-0"



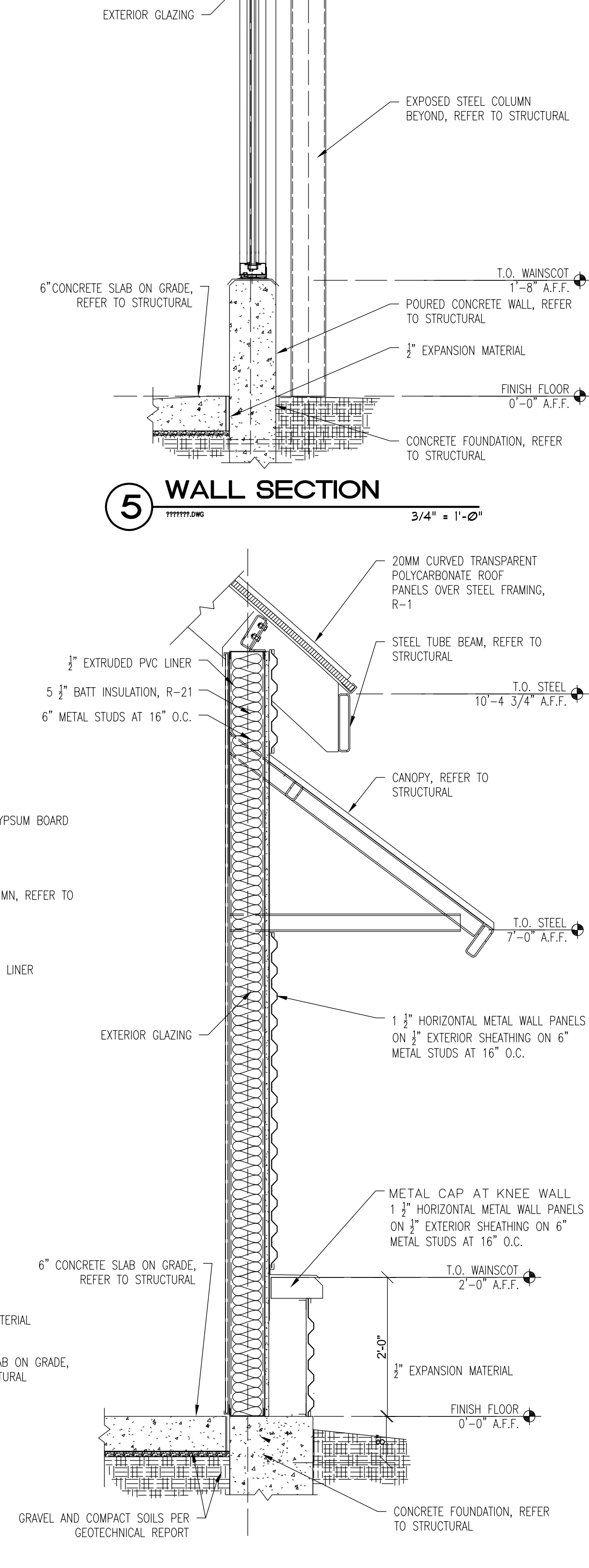
2 WALL SECTION
3/4" = 1'-0"



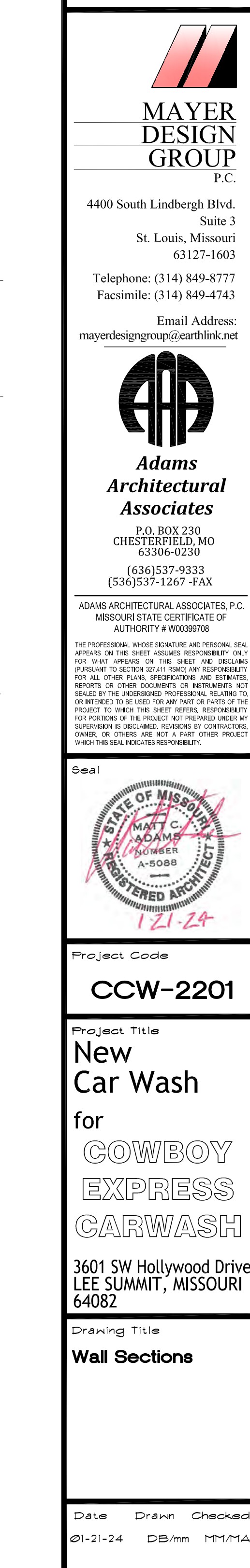
3 WALL SECTION
3/4" = 1'-0"



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



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



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

Revisions

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Seal

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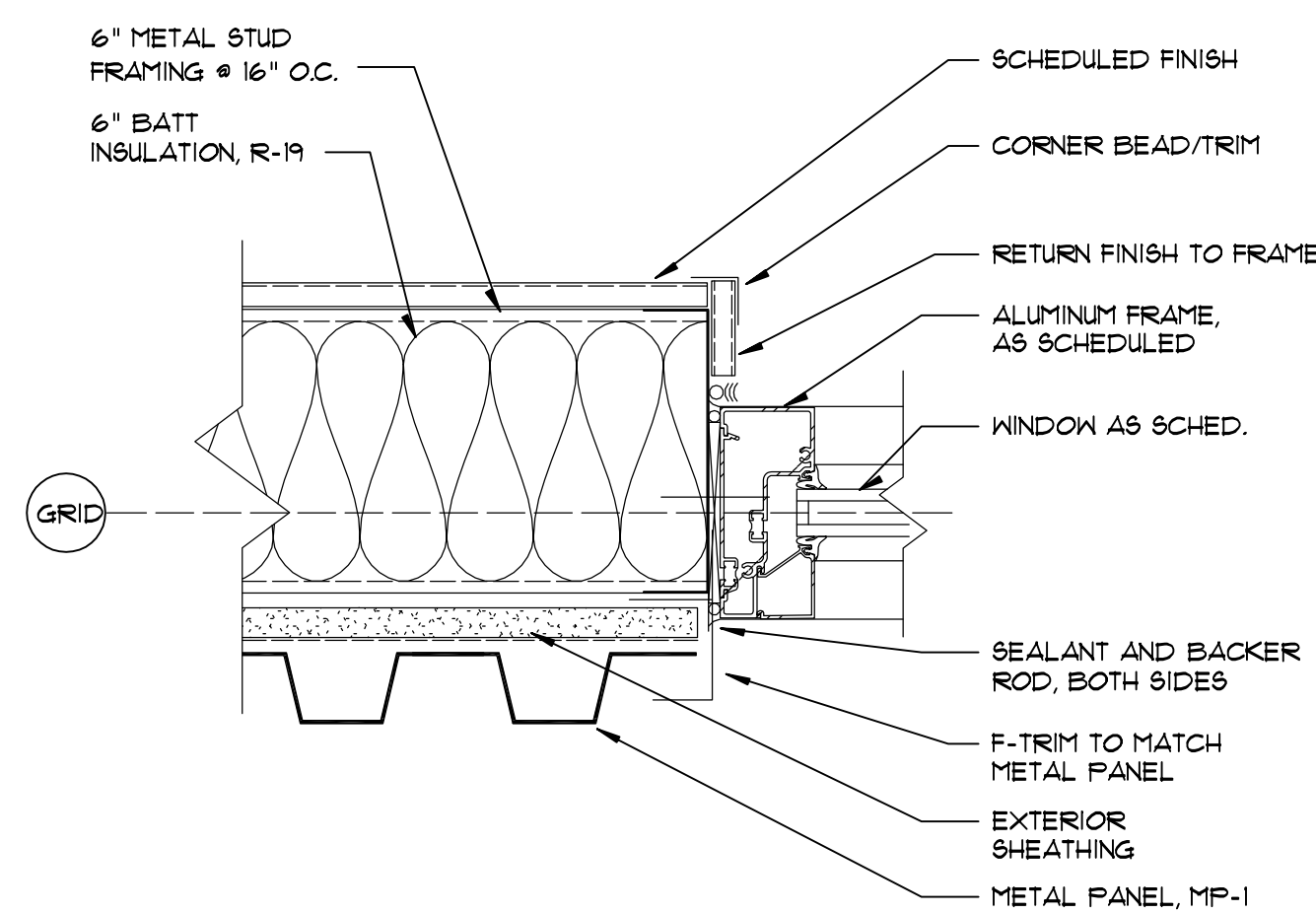
Wall Sections

Date Drawn Checked

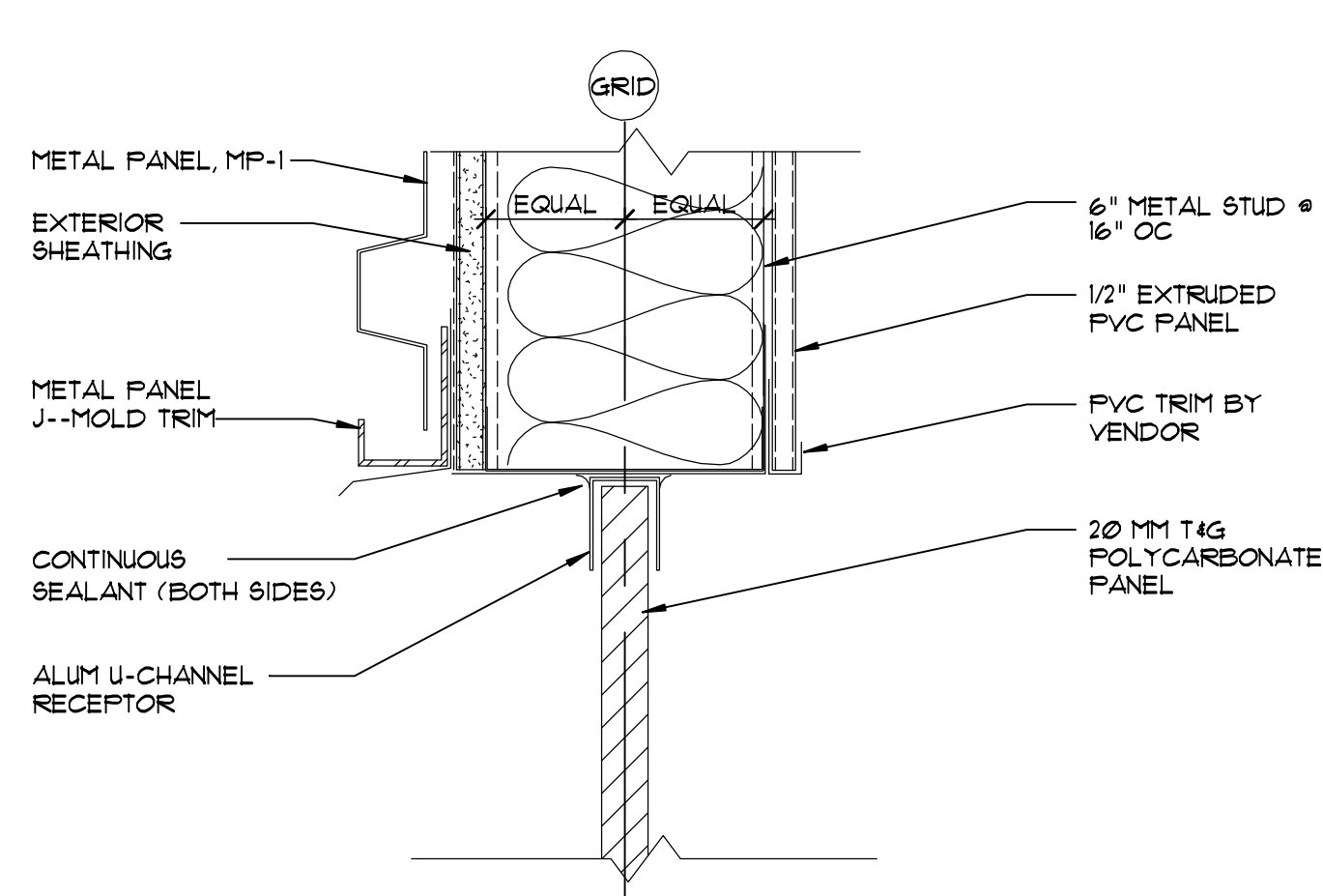
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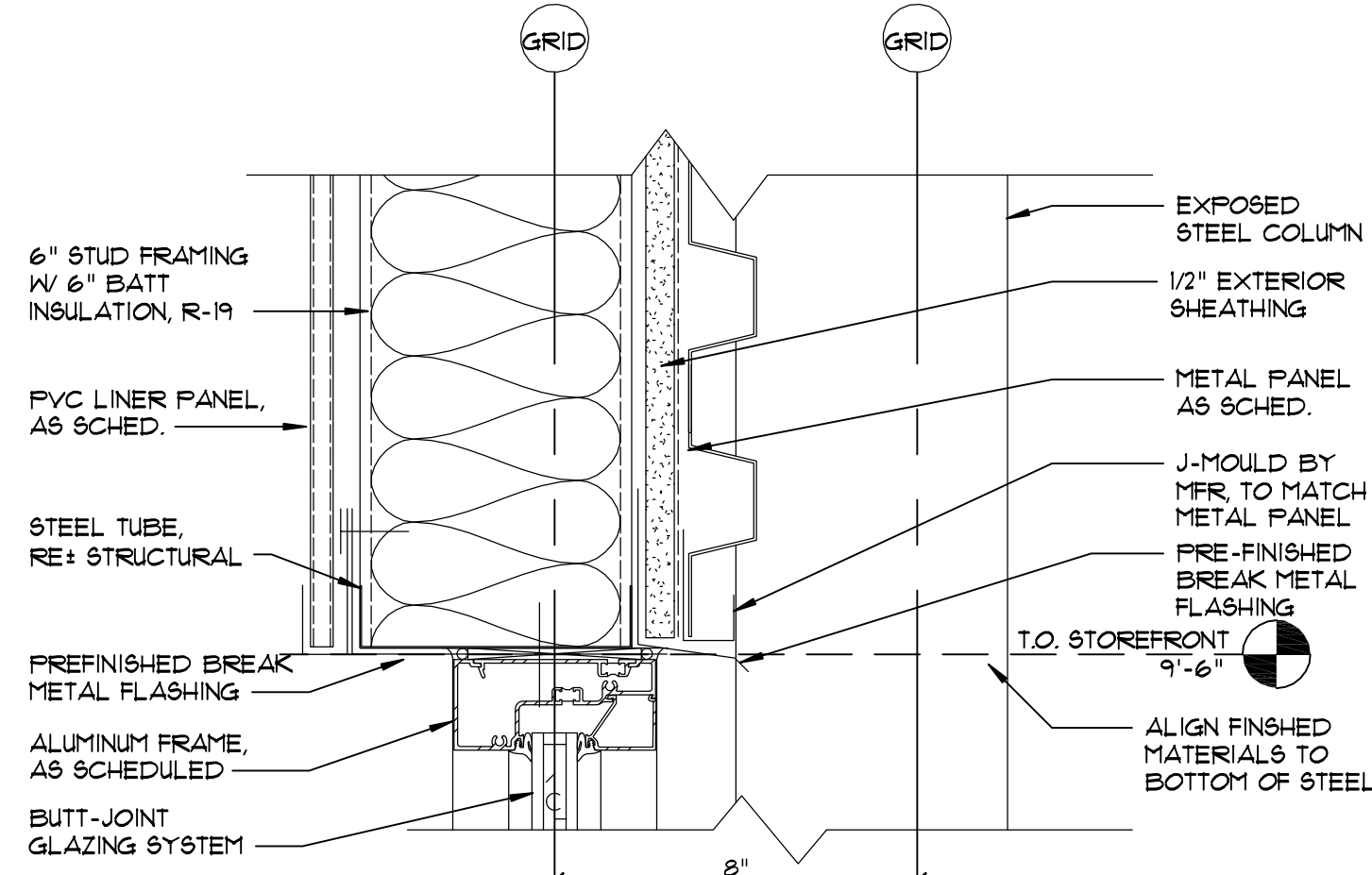
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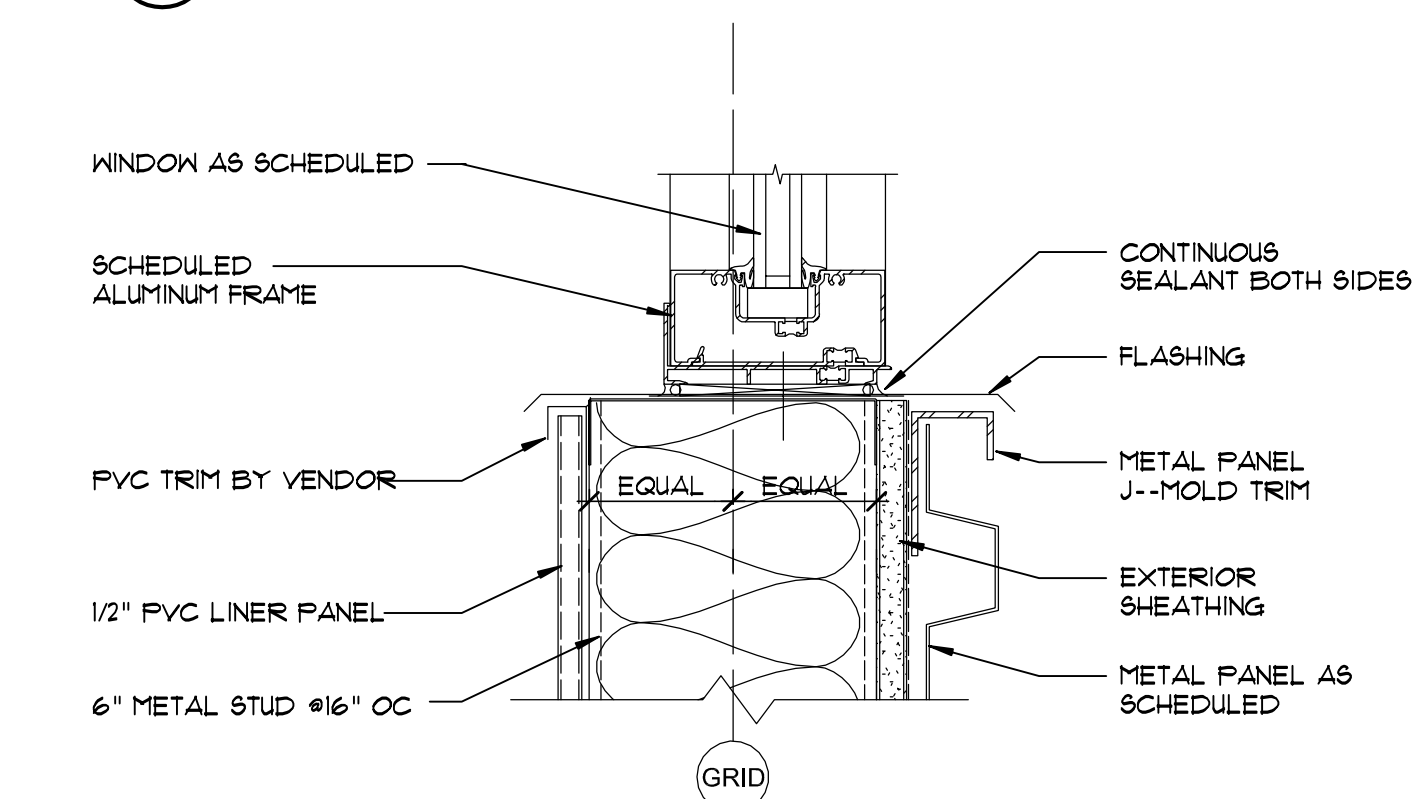
1 SECTION AT STOREFRONT JAMB AT METAL PANEL WITH PVC
3" = 1'-0"



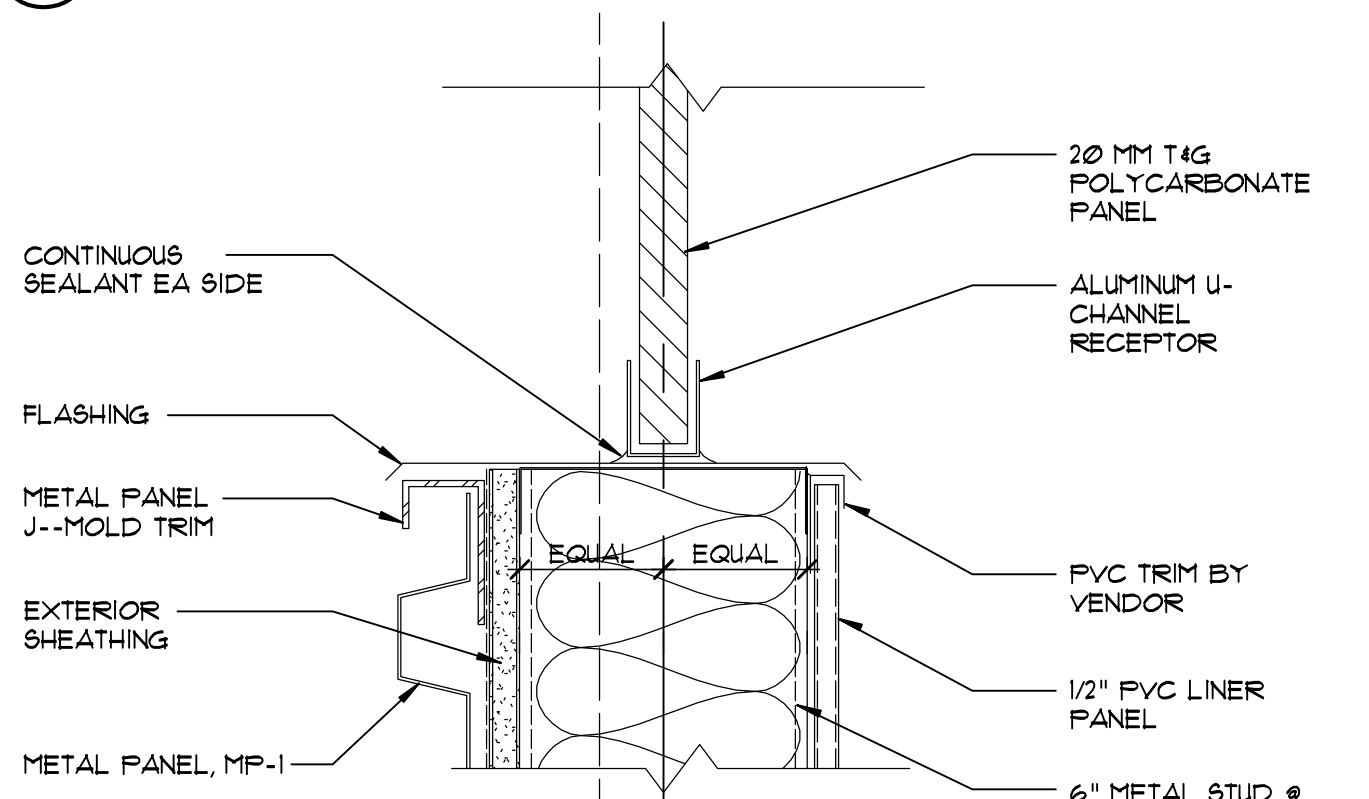
4 SECTION AT CLERESTORY WINDOW HEAD
3" = 1'-0"



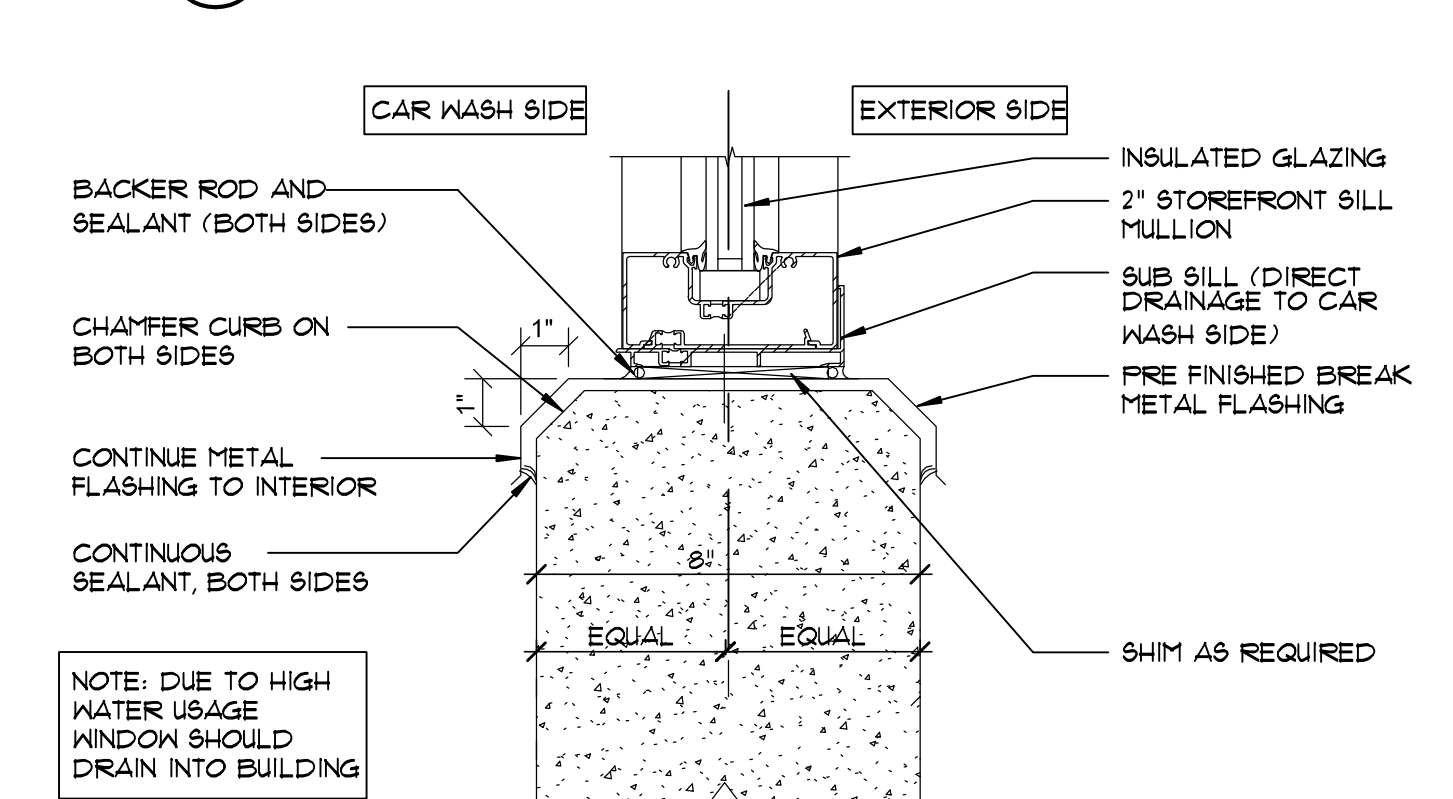
7 SECTION AT TUNNEL WINDOW HEAD
3" = 1'-0"



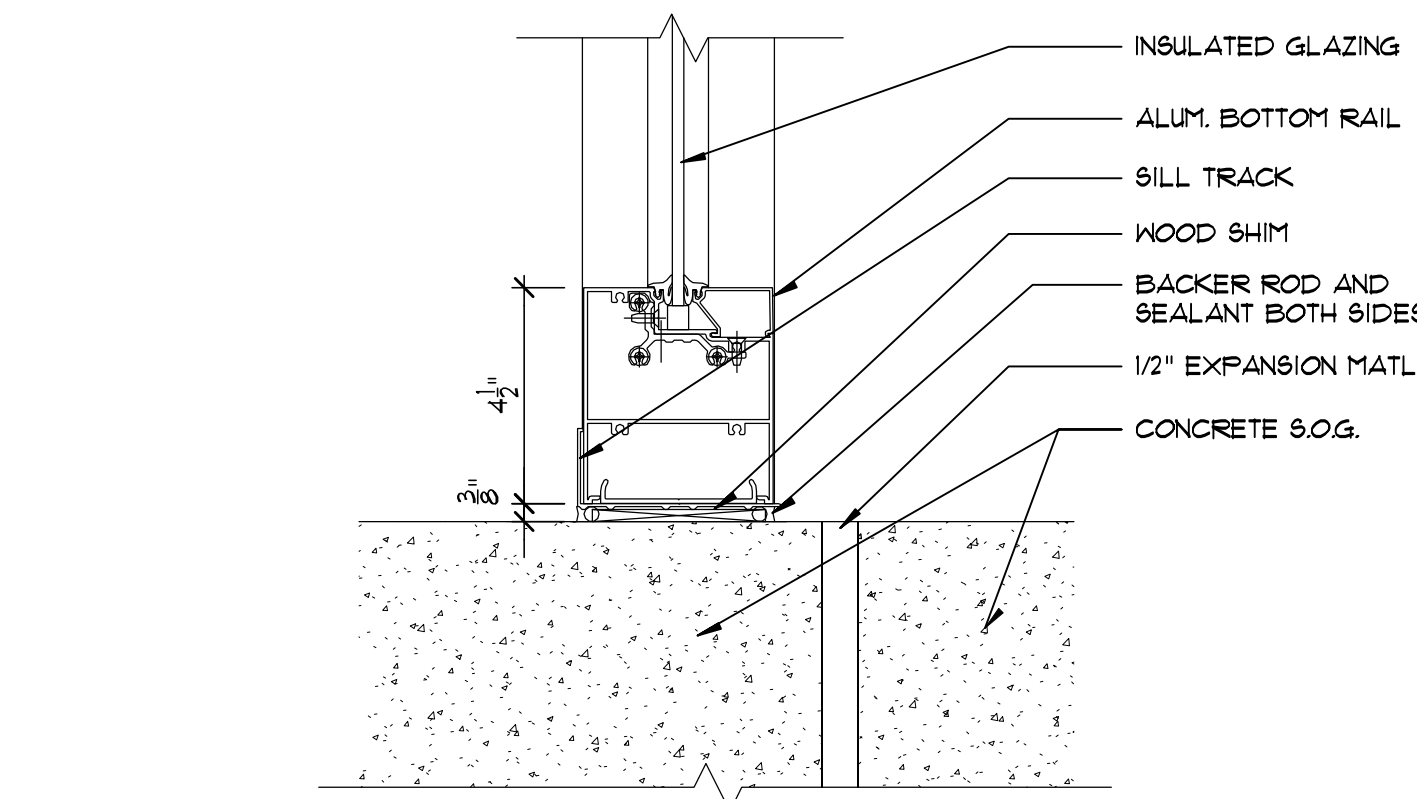
2 SECTION AT STOREFRONT SILL AT METAL PANEL WITH PVC
3" = 1'-0"



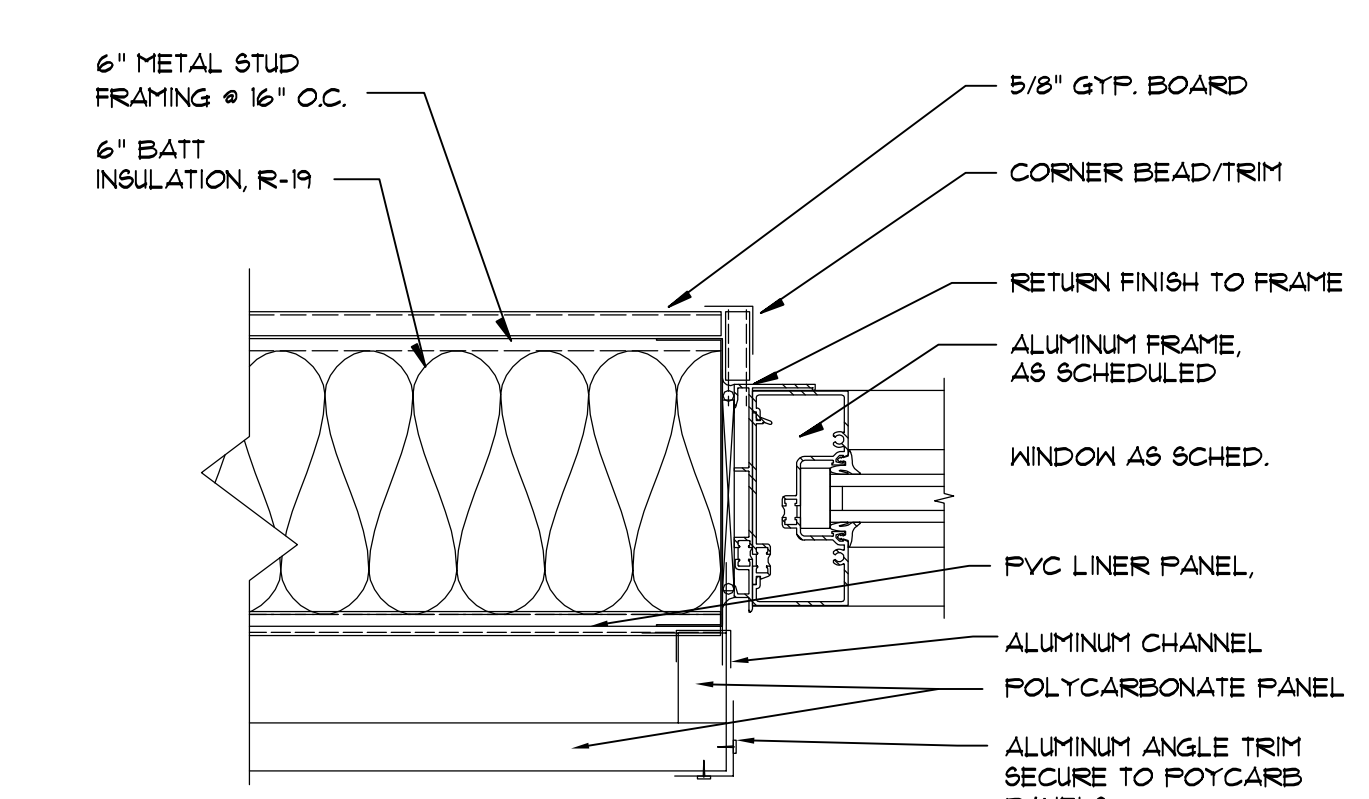
5 SECTION AT CLERESTORY WINDOW SILL
3" = 1'-0"



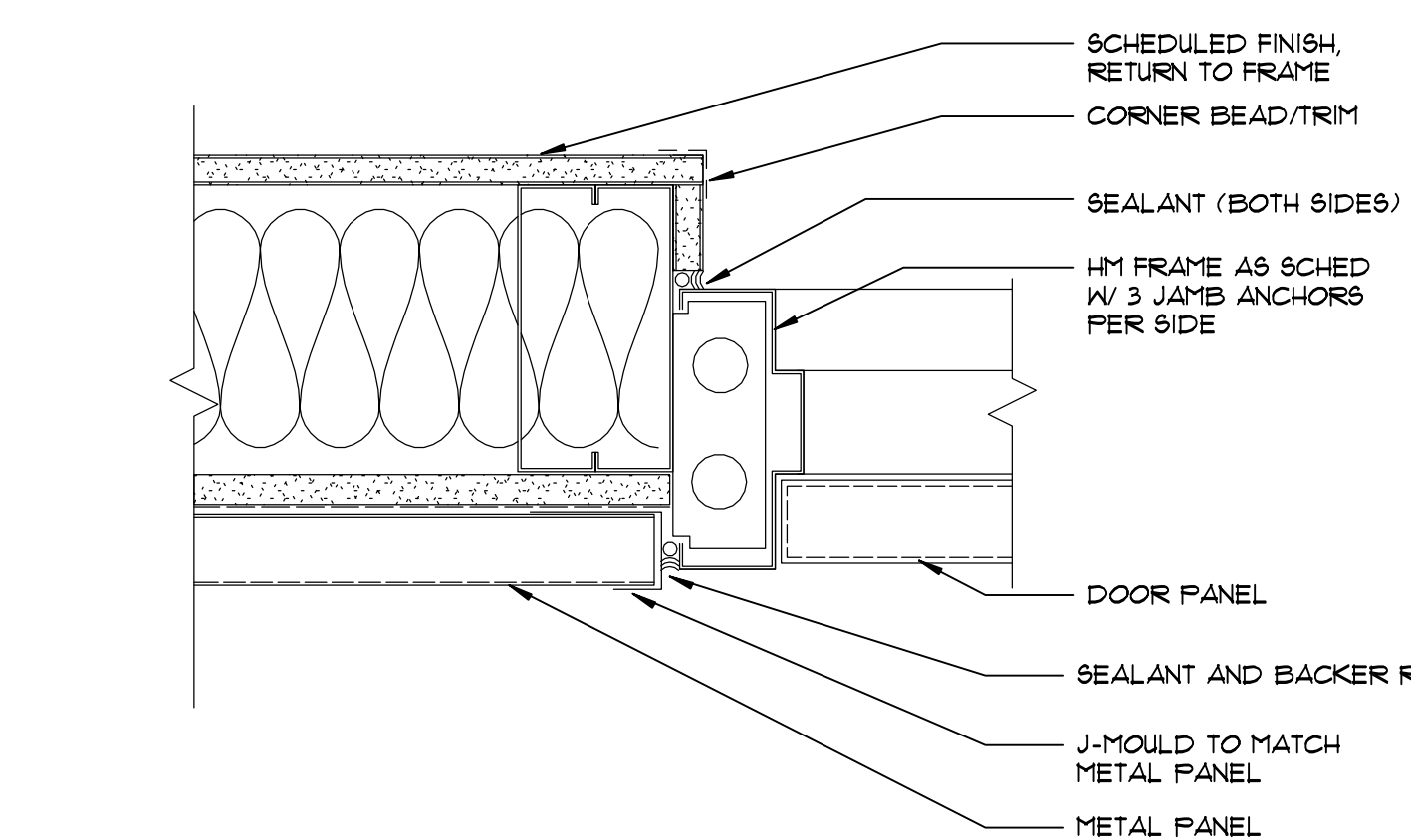
8 SECTION AT TUNNEL WINDOW SILL
3" = 1'-0"



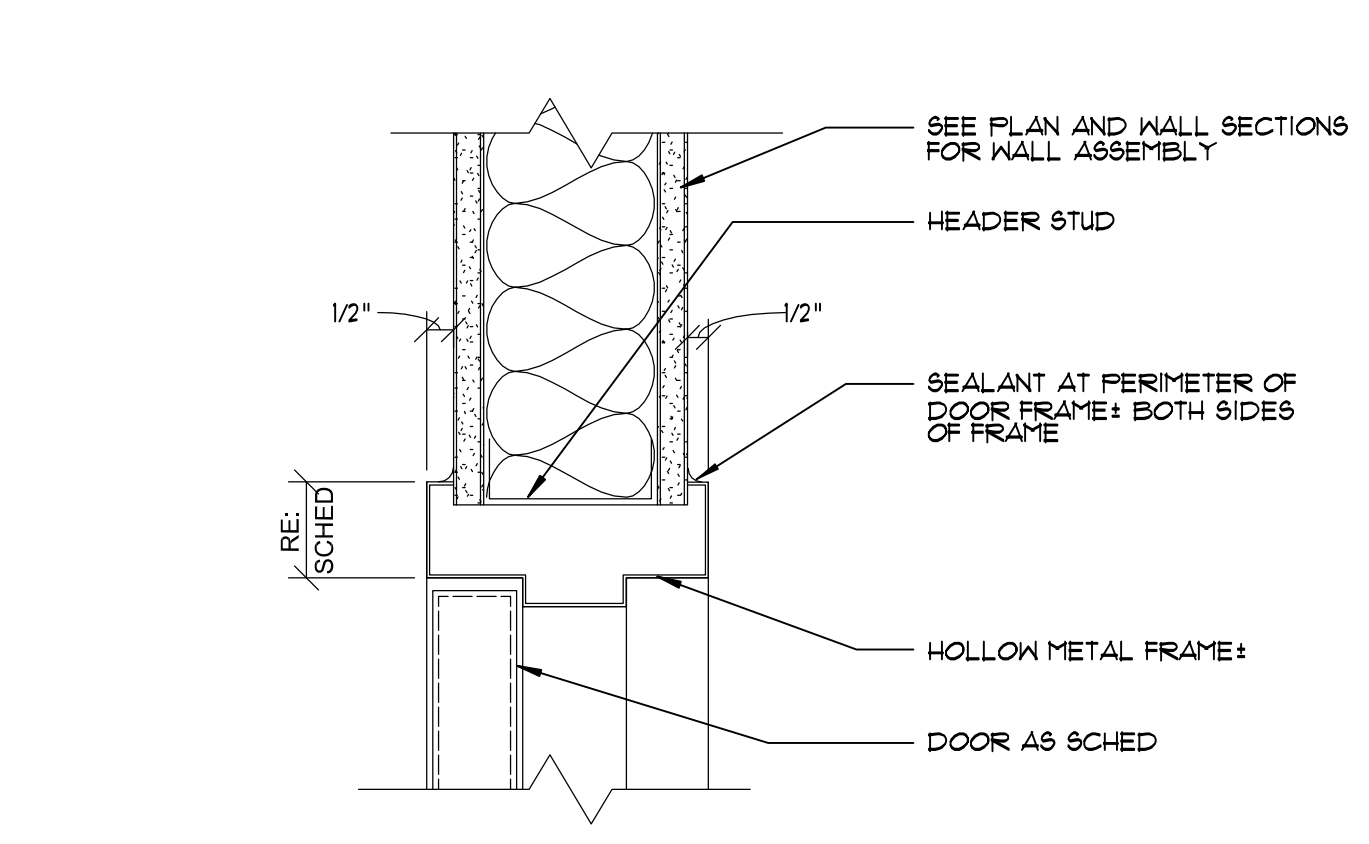
3 SECTION AT STOREFRONT SILL AT CONCRETE SLAB
3" = 1'-0"



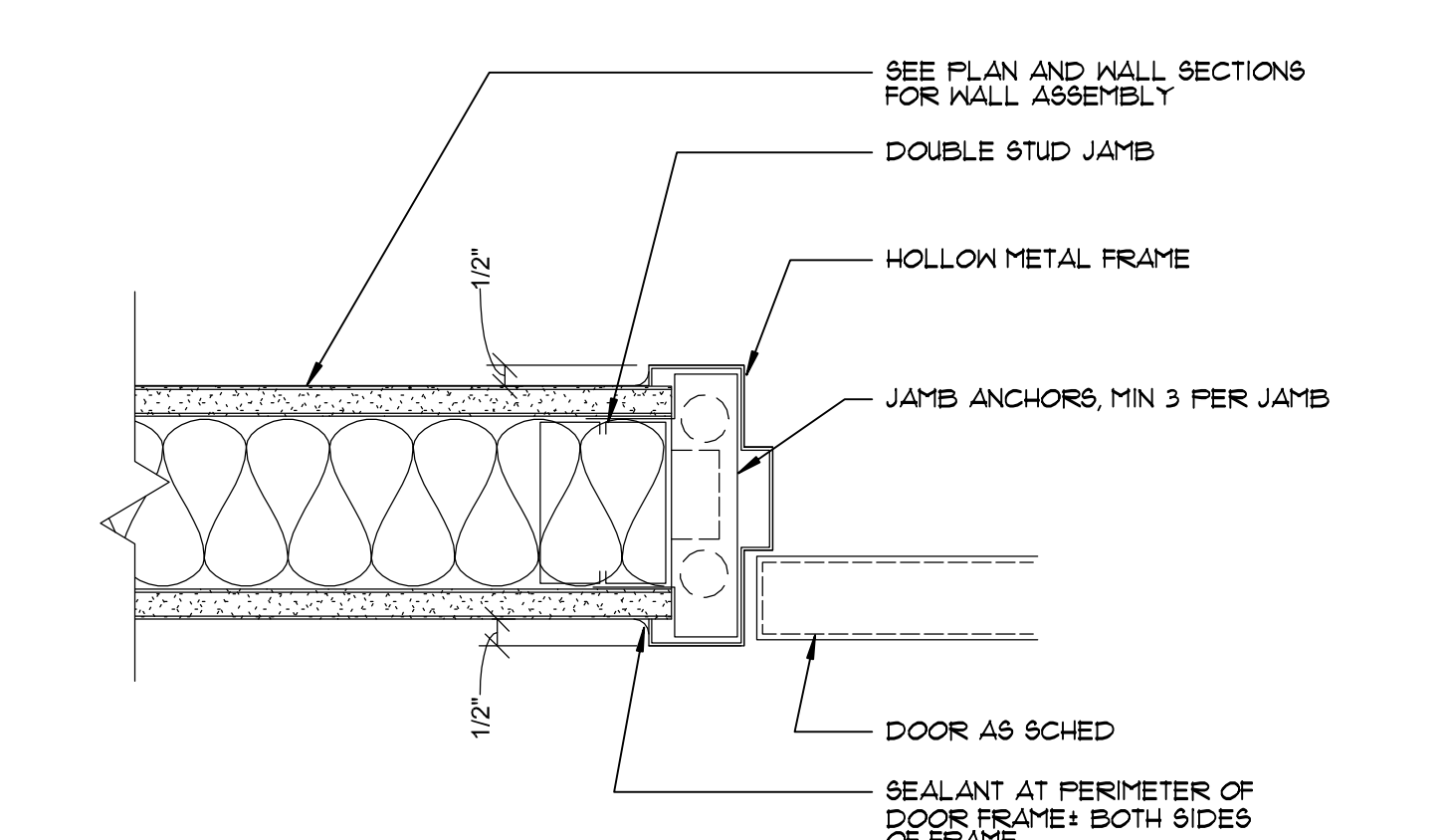
6 SECTION AT STOREFRONT JAMB AT POLYCARBONATE PANEL
3" = 1'-0"



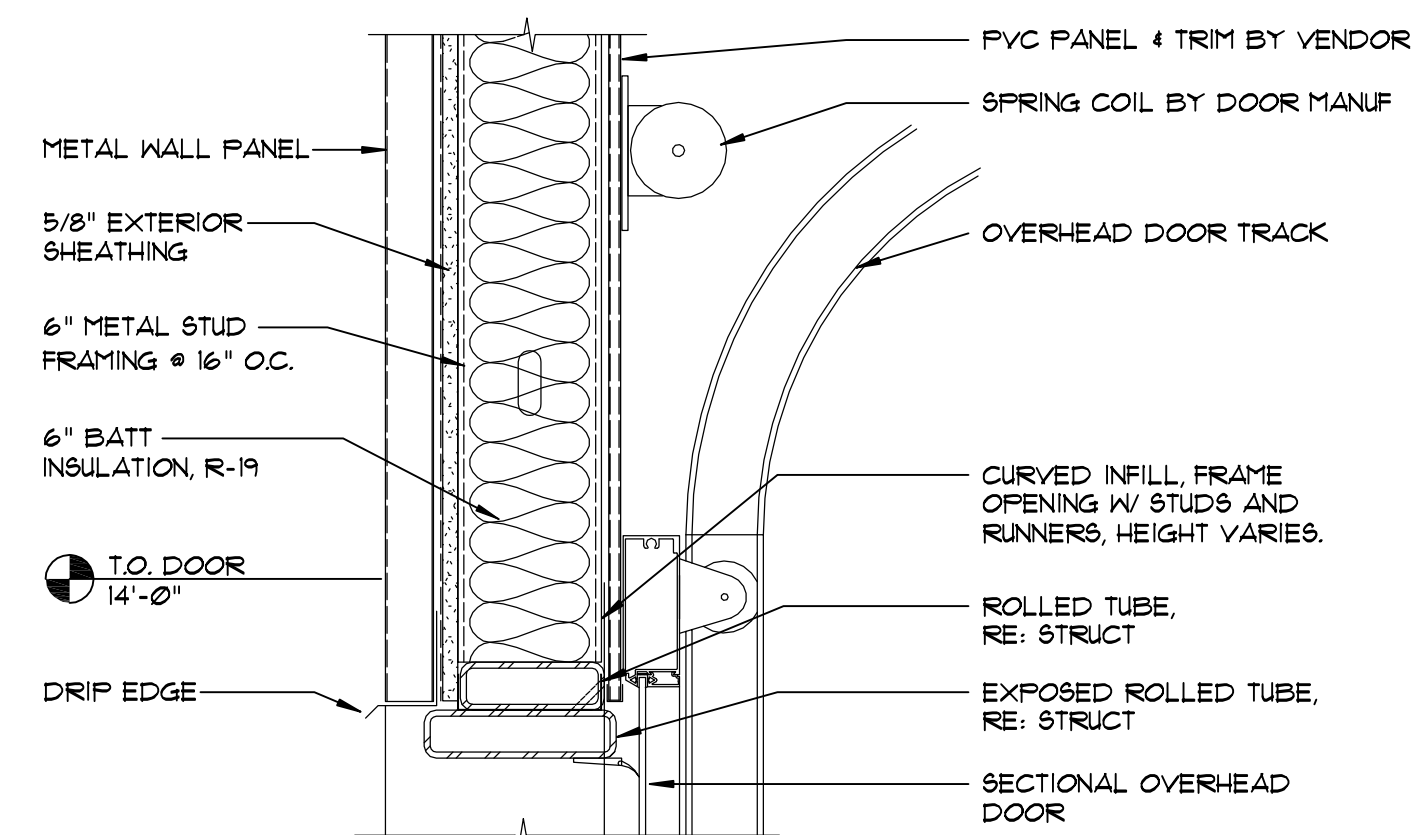
9 SECTION AT EXTERIOR DOOR AT METAL PANEL
3" = 1'-0"



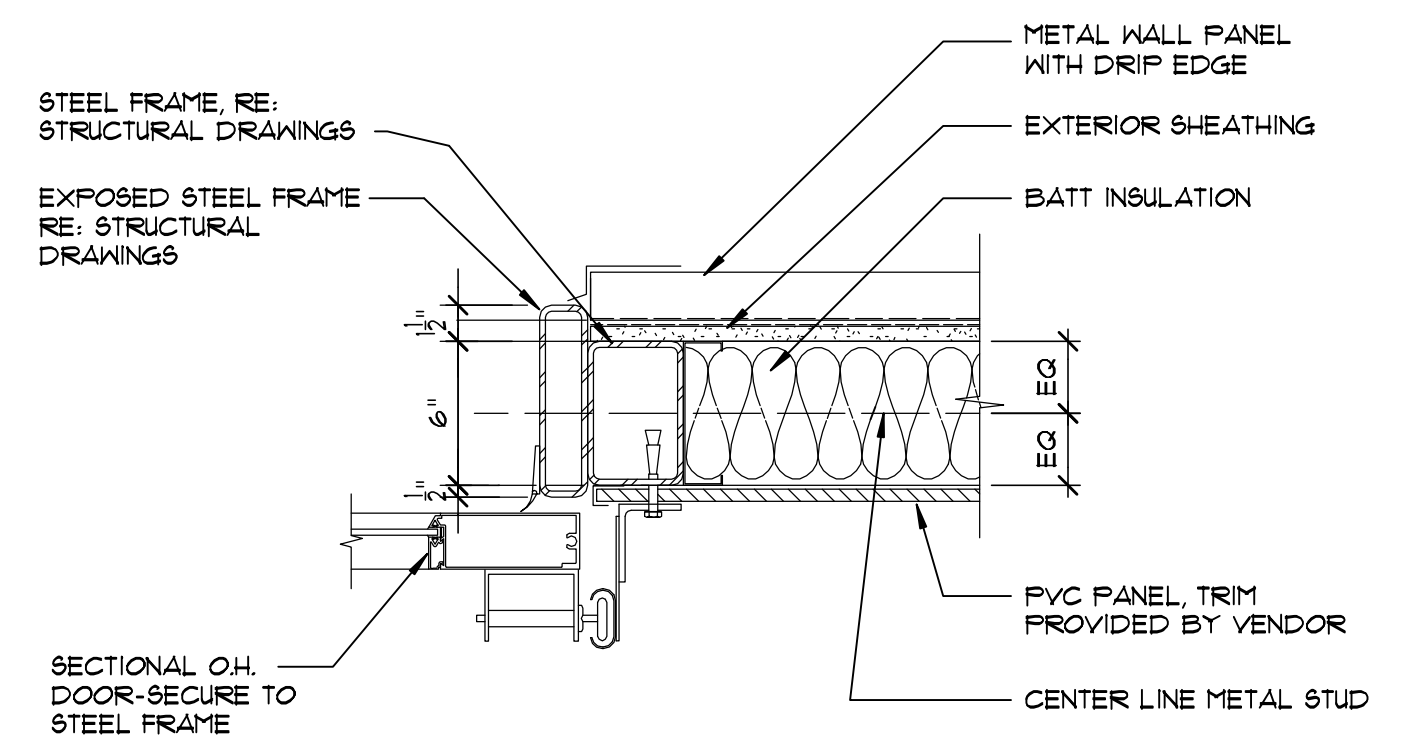
10 SECTION AT HEAD - INTERIOR DOOR
3" = 1'-0"



11 SECTION AT JAMB - INTERIOR DOOR
3" = 1'-0"



12 DETAIL AT OVER HEAD DOOR HEAD
1 1/2" = 1'-0"



13 DETAIL AT OVER HEAD DOOR JAMB
1 1/2" = 1'-0"

REFER TO EXTERIOR ELEVATIONS FOR LOCATION OF STUCCO PANEL SURFACES

Revisions



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EXPRESS
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Drawing Title

**Details, Sections
and Notes**

Date Drawn Checked
01-21-24 DB/mm M/M/MA

Drawing Number

A8