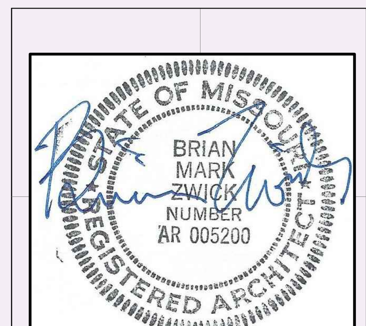
RENOVATIONS / ALTERATIONS TO:

DAVE SINCLAIR USED CAR BUILDING

5655 S. LINDBERGH BLVD.
ST. LOUIS, MO. 63123

DATE ISSUED: 02-22-2021 PERMIT SET
04-13-2021 PLUMBING REVIEW REVISIONS (Permit No. 21BLD-01615)

Shaping Your Environment
through
ZWICK+GANDT ARCHITECTURE, INC.
Insight Leadership Creativity Dedication

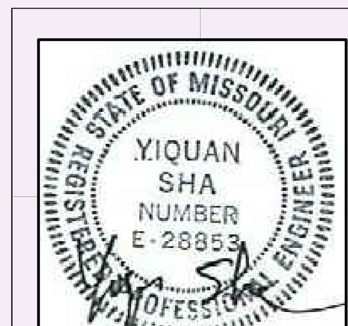


04.13.21

ZWICK+GANDT ARCHITECTURE, INC.
9109 WATSON ROAD, SUITE 110
ST LOUIS, MO 63126
(314) 962 - 9292

ARCHITECTURAL

Sheet	Title	PERMIT SET (02.22.2021)	⚠1 PLUMBING REVIEW SET (04.13.2021)
CVR	COVER SHEET	●	●
A0.01	GENERAL NOTES & AND INFORMATION	●	●
A0.02	CODE REVIEW & EGRESS PLAN	●	●
A1.0	ARCHITECTURAL SITE PLAN	●	●
AD1.0	DEMOLITION PLAN	●	●
A2.0	MAIN FLOOR PLAN & SECOND FLOOR PLAN	●	●
A2.1	MAIN FLOOR POWER PLAN	●	●
A2R.0	ROOF PLAN	●	●
A3.0	EXTERIOR ELEVATIONS	●	●
A3.1	STO -EIFS STANDARD DETAILS	●	●
A4.0	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS	●	●
A6.0	REFLECTED CEILING PLAN	●	●
A8.0	WALL SECTIONS AT NEW & EXISTING	●	●
A8.1	WALL SECTIONS AT NEW ADDITION	●	●
A8.2	WALL SECTION AT EXISTING / STAIR DETAILS	●	●
A8.3	WALL SECTION AT TOILET ROOMS	●	●
A8.4	WALL SECTIONS AT VESTIBULE	●	●
A9.0	DOOR & WINDOW SCHEDULE & DETAILS	●	●
A9.1	PARTITION TYPES AND DETAILS	●	●
A9.2	FLOOR FINISH PLAN & FINISH SCHEDULES	●	●



03.18.21

SUMMITT ENGINEERING GROUP, LLC.
12118 FAHPARK LANE
ST. LOUIS, MO. 63146
(314) 325 - 4899

STRUCTURAL

Sheet	Title	PERMIT SET (3.18.2021)
S1.1	GENERAL NOTES	●
S1.2	GENERAL NOTES AND DETAILS	●
S1.3	TYPICAL STRUCTURAL DETAILS	●
S2.1	FOUNDATION PLAN	●
S3.1	TYPICAL FOUNDATION DETAILS	●
S4.1	ROOF FRAMING PLAN	●
S5.1	TYPICAL FRAMING DETAILS	●

THE PROFESSIONALS INDICATED BELOW AND THEIR DRAWINGS LISTED INDICATED THE NAMED PROFESSIONAL HAS PREPARED AND/ OR DIRECTED THE PREPARATION OF THE INFORMATION SHOWN ON THOSE DOCUMENTS. ALL DRAWINGS AND DOCUMENTS LISTED ON THIS INDEX SHALL NOT BE CONSIDERED PREPARED BY ANYONE OTHER THAN THE NAMED PROFESSIONAL UNDER WHICH THE DRAWING IS LISTED.

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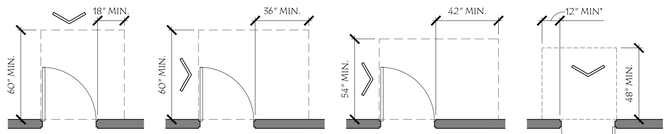
ADA DOOR CLEARANCES



TYPE OF USE		MINIMUM MANEUVERING CLEARANCES	
APPROACH DIRECTION	DOOR SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH UNLESS NOTED)
FROM FRONT	PULL	60 INCHES	18 INCHES
FROM FRONT	PUSH	48 INCHES	0 INCHES ***
FROM HINGE SIDE	PULL	60 INCHES	36 INCHES
FROM HINGE SIDE	PULL	54 INCHES	42 INCHES
FROM HINGE SIDE	PUSH	42 INCHES *	22 INCHES ***&****
FROM LATCH SIDE	PULL	48 INCHES **	24 INCHES
FROM LATCH SIDE	PUSH	42 INCHES **	24 INCHES

* ADD 6 INCHES IF CLOSER AND LATCH PROVIDED
** ADD 6 INCHES IF CLOSER PROVIDED
*** ADD 12 INCHES BEYOND LATCH IF CLOSER AND LATCH PROVIDED BEYOND HINGE SIDE

ABBREVIATIONS

A
ABV: Above
ACOUS: Acoustical
ACT: Acoustical Ceiling Tile
ADDL: Additional
ADH: Adhesive
ADJ: Adjustable
AFF: Above Finish Floor
AGG: Aggregate
AHJ: Authority Having Jurisdiction (Building Department)
A/C: Air Conditioning
ALT: Alternate
ALUM: Aluminum
ANC: Anchor, Anchorage
AB: Anchor Bolt
ANOD: Anodized
APX: Approximate
APT: Apartment
ARCH: Architect (architectural)
ASPH: Asphalt
AUTO: Automatic
AVE: Avenue
AVR: Average
AWN: Awning

B
BSMT: Basement
BM: Beam
BVL: Beveled
BITUM: Bituminous
BLK: Block
BLKG: Blocking
BLW: Below
BLDV: Boulevard
BTW: Between
BD: Board
BOT: Bottom
BLDG: Building
BUR: Built Up Roofing
B/O: By Others
BO: Bottom Of
BR: Bedroom

C
CAB: Cabinet
CD: Cabinet Door
CALC: Calculation
CPT: Carpet Tile
CIP: Cast-In-Place (Concrete)
CL: Centerline
CT: Ceramic Tile
CO: Clean Out
CONTR: Contract
COORD: Coordinate
CRPT: Carpet
CLK: Caulking
CAS: Casement
CB: Catch Basin
CLG: Ceiling
CT: Ceramic Tile
CIR: Circle
CLR: Clear
COL: Column
CONC: Concrete
CMU: Concrete Masonry Unit
CONST: Construction
CONT: Continuous
CJ: Control Joint
CG: Corner Guard
CORR: Corrugated
CUFT: Cubic Foot
CUYD: Cubic Yard

D
DP: Dampproofing
DTL: Detail
DIA: Diameter
DIM: Dimension
DW: Dishwasher
DIV: Division
DR: Door
DH: Double Hung
DS: Downspout
DRWR: Drawer
DT: Drain Tile
DWG: Drawing
D: Nail Size

E
EW: Each Way
E: East
EL: Elevation
ELEV: Elevation
EQ: Equal
EQP: Equipment
EXCV: Excavate
EXH: Exhaust
EXIST: Existing
EXP: Exposed
EXT: Exterior

F
FOC: Face of Concrete
FOF: Face of Finish
FOM: Face of Masonry
FOS: Face of Studs
FOW: Face of Wall
FBD: Fiberboard
FCB: Fiber Cement Board
FCP: Fiber Cement Panel
FRP: Fiber Reinforced Panel
FGL: Fiberglass
FIN: Finish
FFE: Finished Floor Elevation
FA: Fire Alarm
FE: Fire Extinguisher
FPL: Fireplace
FLSH: Flashing
FLR: Floor
FLOR: Fluorescent
FT: Foot, Feet
FTG: Footing
FND: Foundation
FRM: Frame(d), (ing)
FBO: Furnished by Others
FUR: Furred

G
GA: Gage, Gauge
GAL: Gallon
GL: Glass, Glazing
GI: Galvanized Iron
GLBK: Glass Block
GLB: Glue Laminated Beam
GT: Grout
GRD: Grade, Grading
GWB: Gypsum Wall Board
GYP BD: Gypsum Wall Board

H
HWD: Hardware
HDR: Header
HTG: Heating
HVAC: Heating, Ventilation-Air Conditioning
HT: Height
HC: Hollow Core
HOR: Horizontal
HB: Hose Bib

I
IN: Inch
INCL: Include
ID: Inside Diameter
INS: Insulate
INT: Interior
INV: Invert

J
JT: Joint
JST: Joist

K
KD: Kiln Dried
KIT: Kitchen

L
LVL: Laminated Veneer Lumber
LB: Pound
LAM: Laminate(d)
LAV: Lavatory
LH: Left Hand
L: Length
LOA: Length Overall
LT: Light
LF: Lineal Feet
LL: Live Load
LVR: Louver
LVT: Luxury Vinyl Tile

M
MFR: Manufacturer
MO: Masonry Opening
MAX: Maximum
MAS: Masonry
MECH: Mechanic(al)
MC: Medicine Cabinet
MED: Medium
MDF: Medium Density Fiberboard
MDO: Medium Density Overlay
MBR: Member
MMB: Membrane
MTL: Metal
MWK: Millwork
MIN: Minimum
MIR: Mirror
MISC: Miscellaneous
MOD: Module
MLD: Moulding
MLB: Micro Laminate Beam

N
NOM: Nominal
N: North
NIC: Not in Contract
NTS: Not To Scale
NO, #: Number

O
O: Non-Operable Window Section
OBS: Obscure
OC: On Center
OP: Opaque
OPG: Opening
OSB: Orientated Strand Board
OD: Outside Diameter
OVHD: Overhead

P
PT: Paint
PTD: Paint(ed)
PBD: Particle Board
PRT: Partition
PVMT: Pavement
PERF: Perforate(d)
PLAS: Plaster
PLAM: Plastic Laminate
PLT: Plate
PLYWD: Plywood
PCF: Pounds Per Cubic Foot
PLF: Pounds Per Linear Foot
PSF: Pounds Per Square Foot
PSI: Pounds Per Square Inch
PCC: Precast Concrete
PEMBM: Pre Fin Metal Bldg Mfgr
PBF: Prefabricated
PRF: Preformed
PT: Pressure Treated
PL: Property Line

Q
QTY: Quantity
QT: Quarry Tile

R
RAD: Radius
REF: Reference
RFL: Reflect(ed),(ive),(or)
REFR: Ref
REG: Register
RE: Reinforced
REQ'D: Required
RA: Return Air
REV: Revision
R: Riser
RD: Rod
R&S: Rod and Shelf
RFG: Roofing
RM: Room
RO: Rough Opening
RT: Rubber Tile
RS: Rubber (Treads, Risers)

S
SCH: Schedule
SCN: Screen
SECT: Section
SGD: Sliding Glass Door
SHTH: Sheathing
SHT: Sheet
SH: Shelf, Shelving
SIM: Similar
SKL: Skylight
S: South
SSF: Solid Surface
SLB: Slab
SLD: Slider(ing)
SPEC: Specification
SQ: Square
STD: Standard
STV: Stove
STL: Steel
STR: Structural
SA: Supply Air
SC: Solid Core
SW: Shear Wall
ST: Stain(ed)
SS: Stainless Steel
SYS: System

T
TEL: Telephone
TEMP: Tempered
TK: Tight Knot
TPH: Toilet Paper Hanger
TP: Toilet Partition
T&G: Tongue and Groove
T/O: Top of
TOC: Top of Concrete
TOW: Top of Wall
TB: Towel Bar
T: Tread
TS: Tubular Steel
TYP: Typical

U
UL: Underwriters Laboratory
UNF: Unfinished
UNO: Unless Noted Otherwise

V
VAR: Varnish
VIF: Verify In Field
VRN: Veneer
VERT: Vertical
VG: Vertical Grain
VB: Vinyl Wall Base
VF: Vinyl Sheet Flooring
VCT: Vinyl Composite Tile
VP: Vinyl Plank Flooring

W
WL: Wall
WB: Wall Base
WC: Water Closet
WH: Water Heater
WP: Water Proofing
WR: Weather Resistant
WRB: Weather Resistive Barrier
WWF: Welded Wire Fabric
WWM: Welded Wire Mesh
W: West
WIN: Window
W/O: Without
W/: With
WD: Wood

LOCATION OF DEVICES

LAYOUT: CONTRACTOR SHALL TAKE SPECIAL CARE IN THE LAYOUT OF HIS WORK & IN VERIFICATION OF ANY EXISTING CONDITIONS & DIMENSIONS. THE COORDINATION & ALIGNMENT OF THIS WORK WITH ITSELF & ADJACENT WORK IS OF PRIMARY IMPORTANCE & SHOULD TAKE PRECEDENCE OVER WRITTEN DIMENSIONS, ESPECIALLY APPROXIMATE DIMENSIONS. THE INSTALLING CONTRACTOR SHALL LAYOUT HIS WORK & VERIFY TO INSURE PROPER ALIGNMENT & FIT. HE WILL REPORT ANY DISCREPANCIES TO THE PROJECT SUPERINTENDENT AND ARCHITECT.

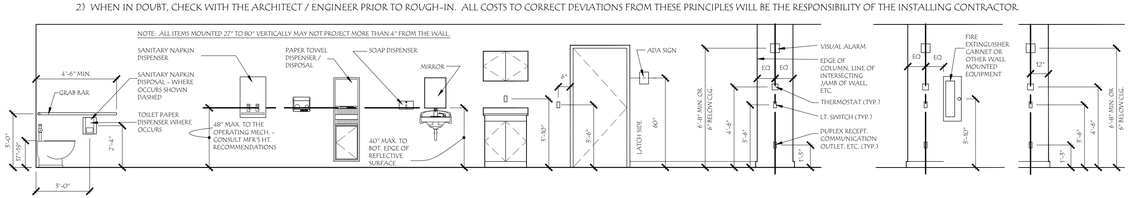
LOCATION OF THERMOSTATS, ELECTRICAL, LIGHTING, LIFE SAFETY DEVICES, ETC. :

1) DEVICES INSTALLED BY SEPARATE TRADES (SUCH AS LIGHT SWITCHES, THERMOSTATS, ETC.) INSTALLED IN THE SAME LOCATION, SHALL BE MOUNTED IN A CONFIGURATION ACCEPTABLE TO THE ARCHITECT.

A. DEVICES SHALL BE UNIFORMLY MOUNTED SO THEY WILL BE SYMMETRICAL, WHEN SHOWN ON THE MECHANICAL & ELECTRICAL DRAWINGS & NOT ON THE ARCHITECTURAL DRAWINGS. VERTICALLY ALIGN DEVICES MOUNTED AT DIFFERENT HEIGHTS UNLESS SEPARATED HORIZONTALLY BY 24".

B. DEVICES INSTALLED IN MASONRY OR INSTALLED IN / MOUNTED TO SURFACES TO RECEIVE WOOD PANELS, WALL COVERING, OR SIMILAR MATERIALS SHALL BE INSPECTED BY THE ARCHITECT / ENGINEER PRIOR TO ROUGHING-IN.

2) WHEN IN DOUBT, CHECK WITH THE ARCHITECT / ENGINEER PRIOR TO ROUGH-IN. ALL COSTS TO CORRECT DEVIATIONS FROM THESE PRINCIPLES WILL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.



GENERAL DOCUMENT NOTES

1. THE CONTRACT DOCUMENTS CONTEMPLATE A FINISHED PIECE OF WORK OF SUCH CHARACTER AND QUALITY AS IS DESCRIBED IN AND IS REASONABLY INFERABLE FROM THEM AND THE CONTRACTOR RECOGNIZING THE IMPOSSIBILITY OF PRODUCING DRAWINGS AND SPECIFICATIONS WITH PERFECT ACCURACY, AGREES THAT HIS SUBMITTED BID OR COST FOR THE WORK HEREUNDER INCLUDES SUFFICIENT MONEY ALLOWANCE TO MAKE HIS WORK COMPLETE AND OPERABLE, AND IN COMPLIANCE WITH GOOD PRACTICE AND THE ORDINANCES, CODES AND REGULATIONS OF ALL BODIES OR PERSONS HAVING GOVERNMENTAL AUTHORITY OVER IT.

2. SPECIFICATIONS AND DRAWINGS ARE TO BE INTERPRETED ACCORDING TO THE FULL INTENT, MEANING AND SPIRIT, WHETHER TAKEN TOGETHER OR SEPARATELY.
a. TAKEN TOGETHER, THEY SHALL BE DEEMED TO MUTUALLY EXPLAIN EACH OTHER AND TO BE DESCRIPTIVE OF THE WORK TO BE PERFORMED UNDER THE CONTRACT.
b. TAKEN SEPARATELY, THE BIDDER OR CONTRACTOR IS TO COMPARE THE SPECIFICATIONS AND DRAWINGS AND IDENTIFY THE DIFFERENCES. WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL/ BOTH. THE DIFFERENCES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID, ALLOWING AN ADDENDUM TO BE ISSUED TO CLARIFY THE DIFFERENCES. IF THE DIFFERENCES ARE BROUGHT TO THE ATTENTION OF THE OWNER AFTER THE BID, WORK IS TO BE PERFORMED AS MENTIONED ABOVE UNLESS MODIFIED BY THE OWNER.

3. DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT ONLY. THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

4. EXISTING CONDITIONS REPRESENTED ON THE DOCUMENTS INCLUDE INFORMATION FURNISHED BY THE OWNER THAT MAY NOT REPRESENT ACTUAL CONDITIONS. IN EVERY CASE THE GENERAL CONTRACTOR MUST INVESTIGATE THE ACTUAL CONDITIONS AND COMPARE THOSE CONDITIONS TO THE DOCUMENTED INTENT OF THE DRAWINGS, WELL IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES, DURING LAYOUT OR OTHER MEANS SO AS TO ANTICIPATE POTENTIAL CONFLICTS AND ALLOW THE ENTIRE TEAM (OWNER, ARCHITECT AND GENERAL CONTRACTOR) TO RESOLVE THE CONFLICT SO AS NOT TO CAUSE DELAY AND ADD ADDITIONAL COST. FAILURE TO DO SO PUTS ANY ADDITIONAL COST OR TIME AT RISK.

5. THE OWNER AND ARCHITECT RELY COMPLETELY ON THE GENERAL CONTRACTOR AND ITS SUBCONTRACTORS TO MAINTAIN A SAFE ENVIRONMENT FOR THE CONSTRUCTION OF THE WORK. IN ADDITION, THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SEQUENCING, MEANS AND METHODS TO CONSTRUCT THE WORK WITH THE HIGHEST QUALITY BY THE INTENT OF THE DOCUMENTS.

6. TO THE FULLEST EXTENT PERMITTED BY LAW, THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS THE CONTRACTOR, SUBCONTRACTORS, ARCHITECT, ARCHITECT'S CONSULTANTS AND AGENTS AND EMPLOYEES OF ANY OF THEM FROM AND AGAINST CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM PERFORMANCE OF THE WORK IN THE AFFECTED AREA IF IN FACT THE MATERIAL OR SUBSTANCE PRESENTS THE RISK OF BODILY INJURY OR DEATH AND HAS NOT BEEN RENDERED HARMLESS, PROVIDED THAT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY OR TO DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) AND PROVIDED THAT SUCH DAMAGE, LOSS OR EXPENSE IS NOT DUE TO THE SOLE NEGLIGENCE OF A PARTY SEEKING INDEMNITY. THE OWNER SHALL NOT BE RESPONSIBLE FOR MATERIALS AND SUBSTANCES BROUGHT TO THE SITE BY THE CONTRACTOR UNLESS SUCH MATERIALS OF SUBSTANCES WERE REQUIRED BY THE CONTRACT DOCUMENTS. IF, WITHOUT NEGLIGENCE ON THE PART OF THE CONTRACTOR, THE CONTRACTOR IS HELD LIABLE FOR THE COST OF REMEDIATION OF A HAZARDOUS MATERIAL OR SUBSTANCE SOLELY BY REASON OF PERFORMING WORK AS REQUIRED BY THE CONTRACT DOCUMENTS, THE OWNER SHALL INDEMNIFY THE CONTRACTOR FOR ALL COST AND EXPENSE THEREBY INCURRED.

7. THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR (HEREINAFTER THE AGREEMENT), CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY, AND OTHER CONDITIONS), DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO THE EXECUTION OF THE CONTRACT, OTHER DOCUMENTS LISTED IN THE AGREEMENT AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. A MODIFICATION IS (1) A WRITTEN AMENDMENT TO THE CONTRACT SIGNED BY BOTH PARTIES, (2) A CHANGE ORDER, (3) A CONSTRUCTION CHANGE DIRECTIVE OR (4) A WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK ISSUED BY THE ARCHITECT. UNLESS SPECIFICALLY ENUMERATED IN THE AGREEMENT, THE CONTRACT DOCUMENTS DO NOT INCLUDE OTHER DOCUMENTS SUCH AS BIDDING REQUIREMENTS (ADVERTISEMENT OR INVITATION TO BID, INSTRUCTIONS TO BIDDERS, SAMPLE FORMS, THE CONTRACTOR'S BID OR PORTIONS OF ADDENDA RELATING TO BIDDING REQUIREMENTS.

8. THE CONTRACT DOCUMENTS FORM THE CONTRACT FOR CONSTRUCTION. THE CONTRACT REPRESENTS THE ENTIRE AND INTEGRATED AGREEMENT BETWEEN THE PARTIES HERETO AND SUPERSEDES PRIOR NEGOTIATIONS, REPRESENTATIONS OR AGREEMENTS, EITHER WRITTEN OR ORAL. THE CONTRACT MAY BE AMENDED OR MODIFIED ONLY BY A MODIFICATION. THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND (1) BETWEEN THE ARCHITECT AND CONTRACTOR, (2) BETWEEN THE OWNER AND A SUBCONTRACTOR OR SUB-SUBCONTRACTOR, (3) BETWEEN THE OWNER AND THE ARCHITECT OR (4) BETWEEN ANY PERSONS OR ENTITIES OTHER THAN THE OWNER AND CONTRACTOR. THE ARCHITECT SHALL, HOWEVER, BE ENTITLED TO PERFORMANCE AND ENFORCEMENT OF OBLIGATIONS UNDER THE CONTRACT INTENDED TO FACILITATE PERFORMANCE OF THE ARCHITECT'S DUTIES.

9. THE DRAWINGS ARE THE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.

10. THE SPECIFICATIONS ARE THAT PORTION OF THE CONTRACT DOCUMENTS CONSISTING OF THE WRITTEN REQUIREMENTS FOR MATERIALS, EQUIPMENT, SYSTEMS, STANDARDS AND WORKMANSHIP FOR THE WORK, AND PERFORMANCE OF RELATED SERVICES.

11. THE PROJECT MANUAL IS A VOLUME ASSEMBLED FOR THE WORK WHICH MAY INCLUDE THE BIDDING REQUIREMENTS, SAMPLE FORMS, CONDITIONS OF THE CONTRACT AND SPECIFICATIONS.

12. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE OF THE WORK BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS. ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, WORDS WHICH HAVE WELL-KNOWN TECHNICAL OR CONSTRUCTION INDUSTRY MEANINGS ARE USED IN THE CONTRACT DOCUMENTS IN ACCORDANCE WITH SUCH RECOGNIZED MEANINGS.

13. EXECUTION OF THE CONTRACT BY THE CONTRACTOR IS A REPRESENTATION THAT THE CONTRACTOR HAS VISITED THE SITE, BECOME GENERALLY FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND CORRELATED PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

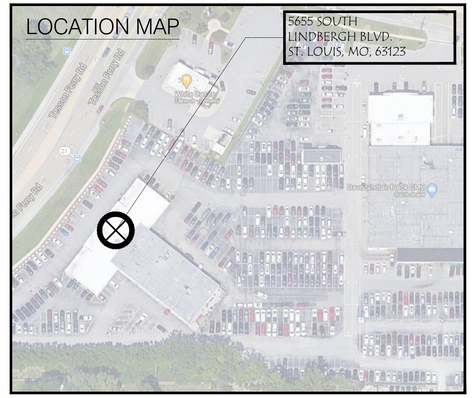
14. ALL MATERIALS ON THIS PROJECT MUST BE INSTALLED BY LICENSED, EXPERIENCED AND/ OR APPROVED INSTALLERS OF THAT PRODUCT/ MATERIAL AND A MINIMUM 3 YEARS EXPERIENCE IN GOOD STANDING BY THE MANUFACTURER OF THAT PRODUCT/ MATERIAL (NO EXCEPTIONS). ALL INSTALLERS MUST BE FULLY AWARE OF THE MANUFACTURERS' INTENDED DESIGN LIMITATIONS/ PURPOSE AND USE OF THE MATERIAL BEING INSTALLED AND THE LATEST PUBLISHED INSTALLATION INSTRUCTIONS, SUBSTRATE REQUIREMENTS OR USE OF THE THIS MATERIAL IN CONJUNCTION WITH OTHER ADJACENT MATERIALS AND SUBSTRATES. NO PRODUCT IS TO BE ORDERED OR INSTALLED THAT DOES NOT MEET OR EXCEED THE LATEST PUBLISHED CONDITIONS FOR HANDLING & INSTALLATION BY THE MANUFACTURER. ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS, SUBSTRATES, OR FINAL INSTALLATION ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.

15. THE INTENT OF THE SPECIFICATIONS, DRAWINGS AND DETAILS, WHETHER SHOWN OR NOT ARE TO DETAIL/ SPECIFY, DELIVER, INSTALL AND COMPLETE CONSTRUCTION WITH ALL PRODUCTS/ MATERIALS PER MANUFACTURERS' SPECIFIC REQUIREMENTS ALLOWING THE PRODUCTS/ MATERIALS TO MEET THE MANUFACTURERS' INTENT FOR LONG-TERM PERFORMANCE. THIS INCLUDES PRODUCTS/MATERIALS BY THEM SELVES OR AS AN ASSEMBLY IN CONJUNCTION WITH OTHER MATERIALS COMPATIBLE WITH THE MANUFACTURER.

16. RECOGNIZING THAT TEAMWORK IS THE HALLMARK OF ALL OUR MOST SUCCESSFUL PROJECTS AND, RECOGNIZING THAT ALL SUPPLIERS/ INSTALLERS OF PRODUCTS/ MATERIALS POSSESS ABUNDANT KNOWLEDGE OF THEIR CRAFT AND DAY TO DAY EXPERIENCE THAT IS VALUABLE TO THE SUCCESS OF THIS PROJECT; WE ENCOURAGE THEIR INPUT.

THE GENERAL CONTRACTOR, ALL SUPPLIERS, SUBCONTRACTORS AND SUB-SUBCONTRACTORS ARE ENCOURAGED TO BRING DISCREPANCIES, CONFLICTS OR CONCERNS TO THE ATTENTION OF THE ARCHITECT IN AN EFFORT TO WORK IN COLLABORATION. THE GOAL IS TO WORK TOGETHER, COLLECTIVELY TO AVOID CONFLICTS AND ADDITIONAL COST, BUT MOST IMPORTANTLY TO ALLOW THE INSTALLATION OF ALL MATERIALS/ PRODUCTS TO BE INSTALLED PROPERLY PER THE MANUFACTURERS' EXPRESSED INTENT TO ENSURE LONG-TERM PERFORMANCE.

LOCATION MAP



MATERIALS

EARTH
ROCK/POROUS FILL
CONCRETE
BRICK
CMU
CUT STONE/PRECAST
FINISH LUMBER
DISCONT. LUMBER
CONTINUOUS LUMBER
STEEL
BLANKET INSULATION
RIGID INSULATION
SHEATHING
MARBLE/GRANITE

SYMBOLS

COLUMN GRID
DOOR IDENTIFICATION
DOOR NUMBER
WINDOW TYPE
WINDOW IDENTIFICATION ALWAYS NUMERICAL
STOREFRONT SYSTEM IDENTIFICATION
REVISION
CLOUD AROUND REVISION
REVISION NUMBER
ROOM/SPACE IDENTIFICATION
ROOM NAME
ROOM NUMBER
PARTITION TYPES KEY
PARTITION TYPE
U = UNDER
T = THROUGH
S = STRUCTURAL
P = PARTIAL
SECTION KEYS
BUILDING SECTION
WALL SECTION
SECTION/DETAIL IDENTIFICATION
SHEET WHERE SECTION IS DRAWN
DETAIL KEY
ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION IS DRAWN
EXTERIOR ELEVATIONS
INTERIOR ELEVATIONS
SHADED AREA INDICATES ELEV. DRAWN
DETAIL NUMBER OF ELEVATION
KEYED NOTES
DEMOLITION
PLAN
REFLECTED CEILING
MATCH LINE
DIRECTION OF SECTION CUT
DETAIL AND SHEET NUMBER
SPOT ELEVATION MARKER

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314-325-4899

STATE OF MISSOURI
BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
02.22.21
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USED CAR BUILDING RENOVATIONS
5655 S LINDBERGH BLVD
ST. LOUIS, MO, 63123

Dave Sinclair Buick - GMC
BUICK | GMC

2-22-2021 PERMIT SET

PROJECT NUMBER: 20034.00

GENERAL NOTES, SYMBOLS & INFO

A0.01

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DRAWING LEGEND

15' — — — → EXIT TRAVEL PATH / DISTANCE

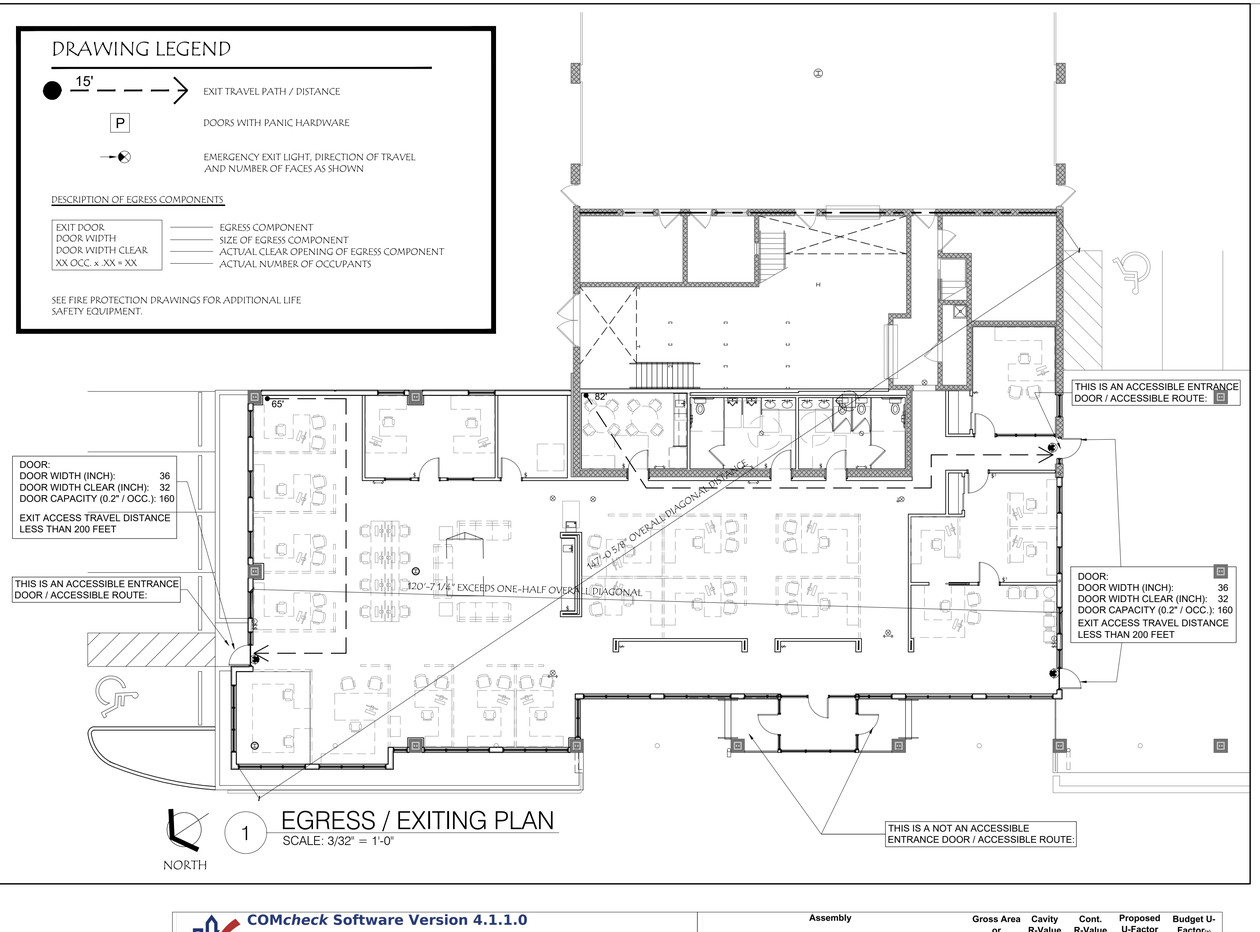
P — DOORS WITH PANIC HARDWARE

EMERGENCY EXIT LIGHT, DIRECTION OF TRAVEL AND NUMBER OF FACES AS SHOWN

DESCRIPTION OF EGRESS COMPONENTS

EXIT DOOR	EGRESS COMPONENT
DOOR WIDTH	SIZE OF EGRESS COMPONENT
DOOR WIDTH CLEAR	ACTUAL CLEAR OPENING OF EGRESS COMPONENT
XX OCC. x .XX = XX	ACTUAL NUMBER OF OCCUPANTS

SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL LIFE SAFETY EQUIPMENT.



NORTH

1 EGRESS / EXITING PLAN
SCALE: 3/32" = 1'-0"

COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	
Location:	Saint Louis, Missouri
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	44%

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Building Area	Floor Area
1-Used car Office Area (Automotive Facility) : Nonresidential	5500

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Used car Office Area]	5500	---	30.0	0.032	0.032
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 3 ft., [Bldg. Use 1 - Used car Office Area] (c)	170	---	0.0	0.730	0.540
NORTH					
Exterior Wall 1: Steel-Framed, 24" o.c., [Bldg. Use 1 - Used car Office Area]	570	20.0	6.0	0.059	0.064
Window 1: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID pending ID, SHGC 0.22, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)	187	---	---	0.290	0.380
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf, Specs.: Product ID pending ID, SHGC 0.29, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)	24	---	---	0.220	0.770
EAST					
Exterior Wall 3: Steel-Framed, 24" o.c., [Bldg. Use 1 - Used car Office Area]	570	20.0	6.0	0.059	0.064
Window 3: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Pending ID, SHGC 0.22, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)	52	---	---	0.290	0.380
SOUTH					
Exterior Wall 2: Steel-Framed, 24" o.c., [Bldg. Use 1 - Used car Office Area]	380	20.0	6.0	0.059	0.064
Window 2: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Pending ID, SHGC 0.22, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)	102	---	---	0.290	0.380
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf.	24	---	---	0.220	0.770
Specs.: Product ID Pending ID, SHGC 0.29, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)					
WEST					
Exterior Wall 4: Steel-Framed, 24" o.c., [Bldg. Use 1 - Used car Office Area]	975	20.0	6.0	0.059	0.064
Window 4: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Pending ID, SHGC 0.22, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)	631	---	---	0.290	0.380
Door 3: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID Pending ID, SHGC 0.29, PF 0.54, [Bldg. Use 1 - Used car Office Area] (b)	90	---	---	0.220	0.770

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

2015 INTERNATIONAL EXISTING BUILDING CODE
CHAPTER 7 SECTION 705 ACCESSIBILITY.
705.2 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION
WHERE AN ALTERATIONS AFFECTS THE ACCESSIBILITY TO A, OR CONTAIN AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE INCLUDE TOILET FACILITIES DRINKING FOUNTAINS SERVING AN AREA OF PRIMARY FUNCTION.

EXCEPTIONS:
1. THE COSTS OF PROVIDING THE ACCESSIBLE ROUTE ARE NOT REQUIRED TO EXCEED 20 PERCENT OF THE COSTS OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY FUNCTION.

2015 INTERNATIONAL EXISTING BUILDING CODE
CHAPTER 4 SECTION 402 BUILDING ENVELOPE REQUIREMENTS
C402.5.7 VESTIBULES
BUILDING ENTRANCES SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE, WITH ALL DOORS OPENING INTO AND OUT OF THE VESTIBULE EQUIPPED WITH SELF-CLOSING DEVICES. DOORS SHALL BE SPACED FAR ENOUGH APART THAT THE INTERIOR AND EXTERIOR DOOR OF A VESTIBULE DO NOT NEED TO BE OPEN AT THE SAME TIME.

THIS APPLIES TO ENTRY DOORS THAT OPEN DIRECTLY FROM A SPACE OF 3000 SQUARE FEET OR GREATER.

THIS REQUIREMENT IS ALSO PART OF THE U.S. D.O.E. AND IS INCLUDED IN ASHRAE 90.1 2010

CODE REVIEW & DESIGN DATA ANALYSIS - THIS PROJECT ONLY

ARCHITECT'S DESIGN INTENT:
OWNER PROPOSES ALTERING AND ENCLOSING A PORTION OF AN EXISTING USED CAR SALES & MOTOR VEHICLE REPAIR SHOP. GENERAL OFFICE INTERIOR RENOVATIONS ARE INCLUDED IN THE PROPOSED SCOPE. THE EXISTING FACILITY IS AN NON SEPARATED, S-1, B OCCUPANCY.

THE EXISTING BUILDING WAS BUILT IN 1977 UNDER THE BOCA , AS A 2-C CONSTRUCTION AND IS NON-SPRINKLERED. THE BUILDING IS OCCUPIED BY A SINGLE BUSINESS.

GOVERNING CODES:
PROPOSED WORK SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE IN COMPLIANCE WITH ST. LOUIS COUNTY, MO. CURRENTLY ADOPTED BUILDING CODES AND AMENDMENTS:

EXISTING BUILDING CODE:	2015 IEBC - INTERNATIONAL EXISTING BUILDING CODE
BUILDING CODE:	2015 IBC - INTERNATIONAL BUILDING CODE
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE
ELECTRICAL CODE:	2014 NEC - NATIONAL ELECTRICAL CODE
PLUMBING CODE:	2015 UPC - UNIFORM PLUMBING CODE
MECHANICAL CODE:	2015 IMC- INTERNATIONAL MECHANICAL CODE

MEHLVILLE FIRE PROTECTION DISTRICT IS UNDER THE 2015 EDITION ICC CODES

BUILDING CODE:	2015 IBC - INTERNATION BUILDING CODE
FIRE CODE:	2015 IFC - INTERNATIONAL FIRE CODE

2015 IEBC: SECTION 504:
WORK IS CLASSIFIED AS AN ALTERATION LEVEL 2: RECONFIGURATION OF SPACE.

2015 IEBC: CHAPTER 8 ALTERATIONS - LEVEL 2:
CHAPTER 8 APPLIES TO THIS PROJECT.

2015 IEBC: SECTION 804.2.2 USE GROUPS S1, B:
THE WORK AREA FOR THIS PROJECT DOES NOT EXCEED 50 PERCENT OF THE FLOOR AREA, THEREFORE DOES NOT REQUIRE A SPRINKLER UPGRADE. THE EXISTING BUILDING IS USED BY A SINGLE BUSINESS.

2015 IEBC: SECTION 804.4.2:
THE WORK AREA FOR THIS PROJECT DOES NOT EXCEED 50 PERCENT OF THE FLOOR AREA, THEREFORE DOES NOT REQUIRE A NEW FIRE ALARM SYSTEM.

2015 IEBC: SECTION 807.5:
LATERAL LOADS WITH THE ALTERATION CONSIDERED ARE 10% GREATER THAN THE DEMAND CAPACITY WITH THE ALTERATION IGNORED. SEE STRUCTURAL DRAWINGS FOR BALANCE INFORMATION DEMONSTRATING THE STRUCTURAL MODIFICATIONS MADE TO BECOME COMPLIANT.

2015 IEBC: SECTION 811.1:
ALTERATION SHALL CONFORM TO ENERGY REQUIREMENTS OF THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE AS THEY RELATE TO NEW CONSTRUCTION ONLY. SEE COMcheck ON THIS SHEET DEMONSTRATING COMPLIANCE FOR NEW CONSTRUCTION ONLY.

CHAPTER 3 - USE AND OCCUPANCY:

2015 IBC: SECTION 304:
BUSINESS GROUP B: A PORTION OF THE EXISTING BUILDING IS USED AS A BUSINESS.

2015 IBC: SECTION 311.2:
MODERATE-HAZARD STORAGE, GROUP S-1: A PORTION OF THE EXISTING BUILDING IS USED AS A MOTOR VEHICLE REPAIR GARAGE.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED OCCUPANCY:

2015 IBC: SECTION 406.8:
SECTION 406.8.1 THROUGH 406.8.6 APPLIES.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

TABLE 503.4 - ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY S-1 & B (TYPE III-B NON SPRINKLED)	55 FEET
EXISTING BUILDING:	20 FEET

TABLE 504.4 - ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE

OCCUPANCY S-1 & B (TYPE III-B NON SPRINKLED)	2 STORIES
EXISTING BUILDING:	2 STORIES

SECTION 505.2 MEZZANINE:
A MEZZANINE IN COMPLIANCE WITH SECTION 505.2 SHALL BE CONSIDERED A PORTION OF THE STORY BELOW. SUCH MEZZANINES SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR THE NUMBER OF STORIES AS REGULATED BY SECTION 503.1. THE AREA OF THE MEZZANINE SHALL BE INCLUDED IN DETERMINING THE FIRE AREA.

SECTION 505.2.1 AREA LIMITATION MEZZANINE:
THE AGGREGATE AREA OF A MEZZANINE WITHIN A ROOM SHALL NOT BE GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED...WHERE A ROOM CONTAINS BOTH A MEZZANINE AND AN EQUIPMENT PLATFORM THE AGGREGATE AREA OF THE TWO RAISED FLOOR LEVELS SHALL NOT BE GREATER THAN TWO-THIRDS OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED.

NEW OPEN MEZZANINE	415 S.F.
ROOM MEZZANINE IS LOCATED IN	1288 S.F.
MEZZANINE IS LESS THAN ONE THIRD <	425 S.F.

TABLE 506.2 - ALLOWABLE AREA

OCCUPANCY S-1 & B (TYPE III-B NON SPRINKLED)	17,500 S.F. PER FLOOR
EXISTING BUILDING 1ST FLOOR:	13,552 S.F.
NEW ENCLOSED ADDITION:	2,726 S.F.
TOTAL 1ST FLOOR:	16,278 S.F.
NEW OPEN MEZZANINE (NOT INCLUDED)	415 S.F.
EXISTING BUILDING 2ND FLOOR	2,004 S.F.

2015 IBC SECTION 508.3 - NONSEPARATED OCCUPANCIES

2015 IBC SECTION 508.3.3 - SEPARATION.
NO SEPARATION IS REQUIRED BETWEEN NON-SEPARATED OCCUPANCIES.

CHAPTER 6 - TYPES OF CONSTRUCTION:

TABLE 601 - FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS
HOURLY FIRE RATING FOR TYPE III-B CONSTRUCTION AND FIRE SEPARATION DISTANCE GREATER THAN 30 FEET

STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS	
EXTERIOR	0
INTERIOR	0
ROOF CONSTRUCTION	0

TABLE 602 - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
FIRE SEPARATION DISTANCE GREATER THAN 30 FEET TO LOT LINE FOR "III-B" CONSTRUCTION & FOR "S-1" OCCUPANCY IS ZERO (0).

CHAPTER 8 - INTERIOR FINISHES :

SECTION 803.1.1 - WALL AND CEILING FINISHES MATERIALS

CLASS A:	FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450
CLASS B:	FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450
CLASS C:	FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450

TABLE 803.11 - INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY
GROUP S-1 & "NON -SPRINKLERED":
EXIT ENCLOSURES AND EXIT PASSAGEWAYS: MINIMUM CLASS "C"
EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS: MINIMUM CLASS "C"
ROOMS AND ENCLOSED SPACES: MINIMUM CLASS "C"

CHAPTER 10 - MEANS OF EGRESS:

TABLE 1004.1.2 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

NEW PROPOSED ADDITION - BUSINESS:	2,603 S.F. = 26
EXISTING BUILDING - BUSINESS:	2,706 S.F. = 27
EXISTING BUILDING - S-1:	9,029 S.F. = 30
TOTAL DESIGN OCCUPANT LOAD:	85 OCCUPANTS

SECTION 1005 - MEANS OF EGRESS SIZING
1005.3.2 OTHER EGRESS COMPONENTS MINIMUM REQUIRED EGRESS WIDTH.
- ...THE TOTAL WIDTH OF MEANS OF EGRESS IN INCHES SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.2 INCHES...FOR EGRESS COMPONENTS OTHER THAN STAIRS.

SECTIOPN 1006.2.1 EGRESS BASED ON OCCUPANT LOAD
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY.
OCCUPANCY S-1, OPEN MEZZANINE LEVEL: 1 EXIT / EXIT ACCESS STAIRWAY IS ALLOWED PROVIDED THERE ARE 29 OR LESS BUILDING OCCUPANTS UP THERE & THE COMMON PATH OF TRAVEL DOES NOT EXCEED 100 FEET. THIS HAS BEEN CONFIRMED BY THE OWNER - MEZZANINE LEVEL IS NOT OCCUPIED & IS FOR ACCESS ONLY.

SECTION 1007.1.1 : TWO EXITS OR EXIT ACCESS DOORWAYS.
WHERE TWO EXITS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.

SECTION 1008 - MEANS OF EGRESS ILLUMINATION.
- MEANS OF EGRESS, INCLUDING EXIT DISCHARGE SHALL BE ILLUMINATED AT ALL TIMES. MINIMUM 1 FOOT-CANDLE. 90 MINUTE EMERGENCY BATTERY BACK-UP POWER SHALL BE PROVIDED ON ALL EMERGENCY / EXIT LIGHTING.

SECTION 1009 - ACCESSIBLE MEANS OF EGRESS.
SECTION 1009.1: ACCESSIBLE MEANS OF EGRESS REQUIRED. ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS.
EXCEPTION 1: ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED TO BE PROVIDED IN EXISTING BUILDINGS.

SECTION 1017 - EXIT ACCESS TRAVEL DISTANCE
- PER TABLE 1016.1, FOR "S-1" OCCUPANCY = 200 FEET EXIT ACCESS TRAVEL DISTANCE WITHOUT SPRINKLER SYSTEM.

SECTION 1020 - CORRIDORS

TABLE 1020.1 - CORRIDOR FIRE RESISTANCE RATING
PER TABLE 1020.1, OCCUPANCY S-1 WITHOUT SPRINKLER SYSTEM; A FIRE-RESISTANCE RATING IS NOT REQUIRED FOR CORRIDORS SERVING 30 OR LESS OCCUPANTS.

PROPOSED WORK DOES NOT CONTAIN ANY NEW CORRIDORS. EXISTING CORRIDORS SERVE LESS THAN 30 BUILDING OCCUPANTS.

CHAPTER 11 - ACCESSIBILITY :

SECTION 1104 ACCESSIBLE ROUTE
- AN ACCESSIBLE ROUTE HAS BEEN PROVIDED FROM ACCESSIBLE PARKING TO THE ACCESSIBLE BUILDING ENTRANCE.
- AN ACCESSIBLE ROUTE HAS BEEN PROVIDED THROUGHOUT THE INTERIOR PUBLIC SPACES AND TO ACCESSIBLE FEATURES.

CHAPTER 12 - INTERIOR ENVIRONMENT

SECTION 1203 - VENTILATION - PROVIDED PER SECTION 1203.2, ATTIC SPACES

SECTION 1209 - ACCESS TO UNOCCUPIED SPACES
SECTION 1209.2: - AN OPENING NOT LESS THAN 20 INCHES BY 30 INCHES SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30 INCHES. A 30 INCH MIN. CLEAR HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT OR ABOVE THE ACCESS OPENING.

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2-22-2021
PERMIT SET

PROJECT NUMBER:
20034.00

CODE REVIEW & EGRESS PLAN

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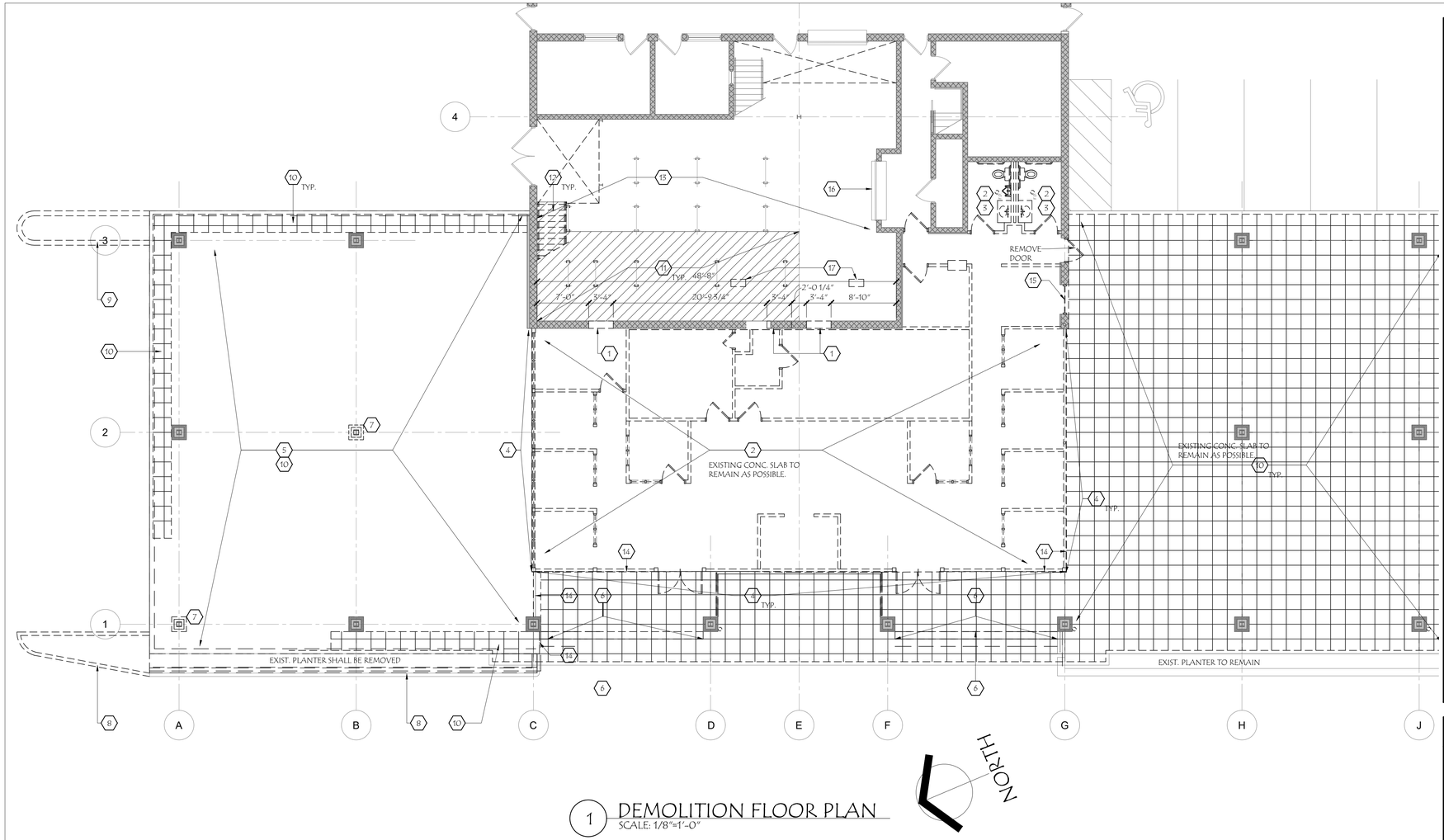

1 DEMOLITION FLOOR PLAN
SCALE: 1/8"=1'-0"

GENERAL DEMOLITION NOTES:

A. ALL DEMOLITION DRAWINGS, NOTES, DETAILS ARE COMPREHENSIVE TO NEW WORK. " NO SHEET STANDS ALONE". GENERAL CONTRACTOR AND SUB-CONTRACTORS ARE TO FAMILIARIZE THEMSELVES WITH DEMOLITION AND NEW WORK SO AS TO REMOVE AND/ OR SAW-CUT EXISTING MATERIALS AT LOCATIONS THAT COORDINATE WITH NEW WORK.

B. DO NOT SCALE DRAWINGS.

C. FIELD VERIFY EXISTING CONDITION, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, STRUCTURAL DEMOLITION, AND THE INTENT OF NEW WORK TO FULLY UNDERSTAND SCOPE OF DEMOLITION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

D. ALL EXISTING AREAS, ITEMS OR FINISHES TO REMAIN, ARE TO BE PROTECTED FROM DAMAGE AS REQUIRED. ANY DAMAGED ITEMS ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

E. ANY FLOORING TO REMAIN IS TO BE INSPECTED FOR " LOOSE" MATERIALS OR PORTIONS OF MATERIALS AND TO BE REMOVED. ANY PORTIONS OF EXISTING FLOORING MATERIAL HIGHER THEN ADJACENT SLAB ARE TO BE GROUND DOWN OR REMOVED GIVING THE FOLLOWING FINISH TRADE SUB-CONTRACTORS A " SOLID ", " FLAT " SUBSTRATE TO WORK FROM.

F. COMPLY WITH ALL ENVIRONMENTAL REGULATIONS IN THE REMOVAL, HANDLING AND DISPOSAL OF DEMOLISHED MATERIALS.

G. CUT REMOVED WALLS FLUSH WITH ADJACENT WALL SURFACES

H. COORDINATE TIMING OF OTHER DEMOLITION WORK BY STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND FOOD SERVICE TRADES.

I. MAINTAIN THE STRUCTURAL INTEGRITY OF THE PORTIONS OF EXISTING BUILDING TO REMAIN.

J. VERIFY ALL ITEMS TO BE RETAINED AND DELIVERED TO THE OWNER IN GOOD WORKING CONDITION.

K. AREAS SHOWN TO " REMAIN " OR " LIMITED WORK " ARE TO BE SEALED WITH " DUST-TIGHT" ENCLOSURES FROM THE REMAINDER OF THIS BUILDING. THESE AREAS ARE TO REMAIN FREE FROM DUST, DIRT, AND DEBRIS THROUGH-OUT THE CONSTRUCTION. FINAL CLEAN UP TO INCLUDE THE AREAS SHOWN TO " REMAIN" OR ALL " LIMITED WORK " AREAS.

L. PATCH AND REPAIR ANY DAMAGED SURFACES TO REMAIN CAUSED BY DEMOLITION WORK. MATCH MATERIAL, FINISH AND LOOK OF DAMAGED SURFACE PRIOR TO ANY WORK.

M. ANY WORK SUSPECTED TO DAMAGE OR INCREASE THE INSTABILITY OF THE EXISTING STRUCTURE ARE TO VERIFY ITS REMOVAL BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.

N. PROVIDE TEMPORARY SHORING OR BRACING AS NECESSARY TO PROTECT EXISTING WALLS, FLOOR, ROOF CONSTRUCTION, ETC. AS MAY BE REQUIRED. TO KEEP THE EXISTING CONSTRUCTION IN SOUND, STABLE, WATER-TIGHT WORKING CONDITION FOR NEW WORK.

O. ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE TO BE IDENTIFIED PRIOR TO DEMOLITION WORK AND REMOVED UNDER A SEPARATE CONTRACT.

P. REMOVAL OF FLOORING MATERIALS TO INCLUDE THE REMOVAL OF THE FLOORING PRODUCT AND THE ADHESIVE DOWN TO THE EXISTING CONCRETE SURFACE, U.N.O. GRIND SMOOTH OR SAND; FILL LOW SPOTS PRIOR TO NEW FLOORING INSTALLATION.

Q. REMOVE ALL INTERIOR CEILINGS AT NEW WORK AREA INCLUDING: PADS, GRID, LIGHTS, LOUVERS, HANGERS, MISC. FRAMING, WALL ANGLES, CLIPS, FASTENERS, ETC. DOWN TO EXPOSED STRUCTURE.

DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED

NOTE: ALL M.P.E. SYMBOLS ARE SHOWN FOR CLARITY & COORD - SEE RCP FOR ADD. INFO AND MECH, PLUMB & ELEC SHEETS FOR EXACT LOCATIONS OF M.P.E. EQUIP & FIXTURES. 'E' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS EXISTING TO REMAIN

(X) KEYED DEMOLITION PLAN NOTES

1. REMOVE PORTION OF LOAD BEARING EXISTING CMU WALL. PROVIDE BRACING & SUPPORT AS REQ'RD. MAKE READY FOR NEW LINTEL
2. REMOVE ALL PARTITION WALLS, FINISHES, FLOORING, CEILINGS. MAKE READY FOR NEW WORK.
3. REMOVE EXISTING PLUMBING FIXTURES & CAP OFF BELOW FLOOR.
4. REMOVE EXISTING STOREFRONT WINDOW SYSTEM FULL HEIGHT.
5. REMOVE EXISTING EXTERIOR CONC. SLAB.
6. REMOVE EXISTING CONC. STAIR AND LANDINGS. MAKE READY FOR NEW PAVING.
7. REMOVE EXISTING BRICK VENEER. MAKE READY FOR NEW COLUMN COVER.
8. REMOVE EXISTING CONC. CURB. MAKE READY FOR NEW WORK.
9. REMOVE EXISTING ASPHALT & CONC. CURB. MAKE READY FOR NEW WORK.
10. REMOVE EXISTING CEILING PADS, LIGHT FIXTURES & EXISTING SUSPENDED GRID. MAKE READY FOR NEW WORK.
11. REMOVE/REWORK EXISTING PARTS OPEN GRATE STORAGE SYSTEM. COORDINATE WITH OWNER ON REQUIRED SCOPE OF WORK.
12. REMOVE EXISTING STAIR. COORDINATE WITH OWNER ON SCOPE.
13. EXISTING STORAGE SUPPORT FRAME & FLOORING ABV. TO REMAIN.
14. PROTECT EDGE OF EXISTING CONCRETE TO REMAIN. NEW CONSTRUCTION TO ALIGN WITH EXISTING EDGE.
15. REMOVE WINDOW & PORTION OF WALL BELOW. MAKE READY FOR NEW DOOR. SEE SHEET A2.0, A3.0 & A9.0 DOOR SCHEDULE.
16. REMOVE COUNTER O/H DOOR AND TRACK. MAKE READY FOR INFILL.
17. REMOVE PORTION OF CONC. SLAB FOR NEW FLOOR DRAINS.

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DEMOLITION PLAN

AD1.0

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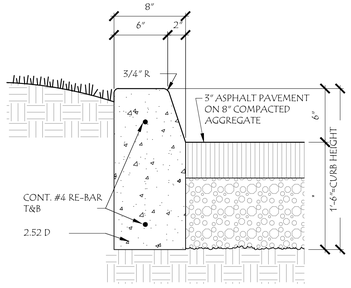
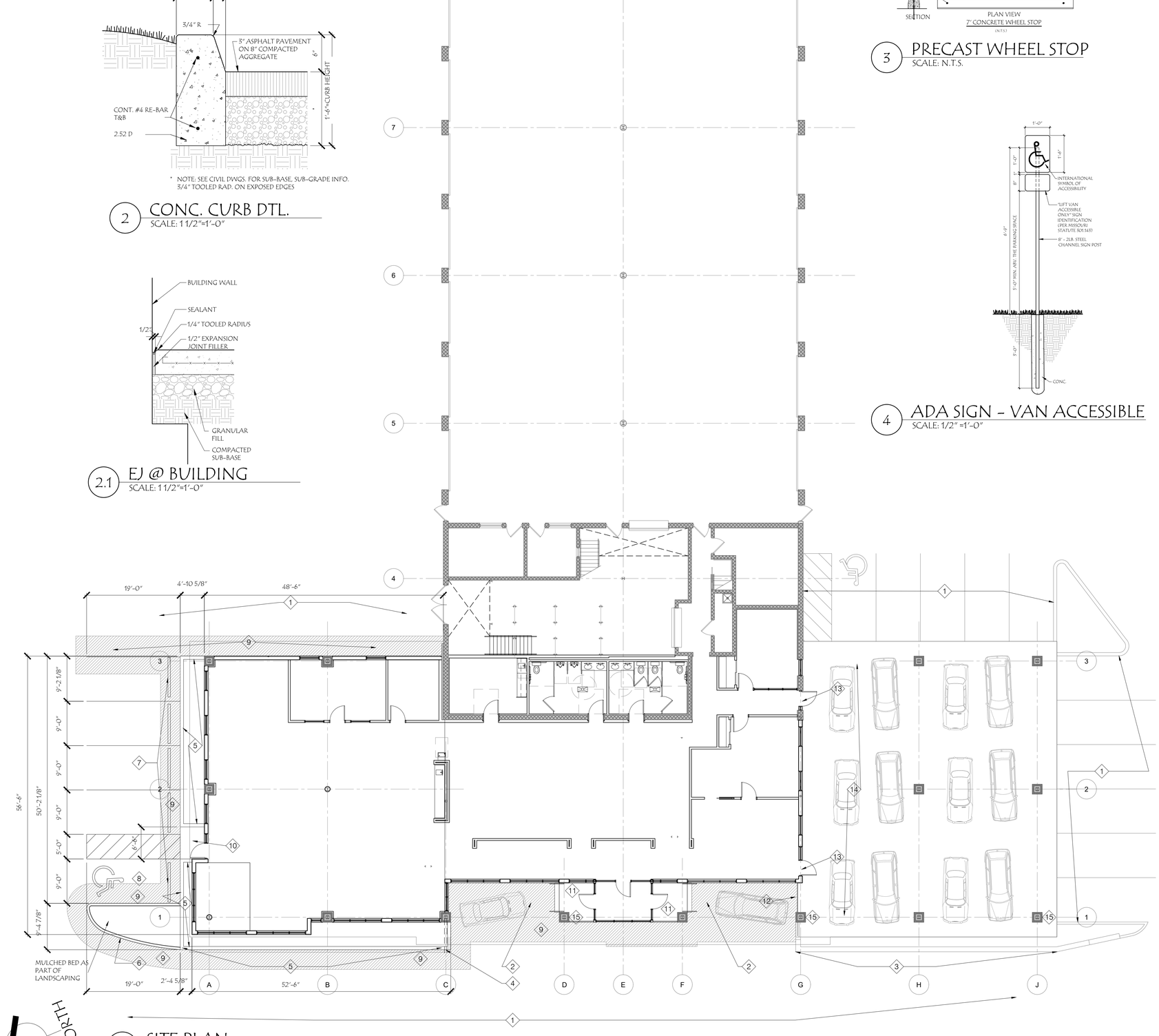


* NOTE: SEE CIVIL DWGS. FOR SUB-BASE, SUB-GRADE INFO. 3/4" TOOLED RAD. ON EXPOSED EDGES

2 CONC. CURB DTL.
SCALE: 11/2"=1'-0"

2.1 EJ @ BUILDING
SCALE: 11/2"=1'-0"



1 SITE PLAN
SCALE: 1"=10'-0"

3 PRECAST WHEEL STOP
SCALE: N.T.S.

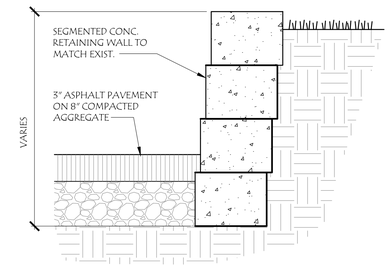
4 ADA SIGN - VAN ACCESSIBLE
SCALE: 1/2" =1'-0"

GENERAL SITE NOTES

1. ALL INFORMATION SHOWN HAVE BEEN LOCATED FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE.
2. THE GENERAL CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
3. ALL ON SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF LOCALLY ADOPTED ORDINANCES.
4. PRIOR TO BEGINNING OF THE WORK ON THE SITE, THE SUB-CONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK AND SITE RESTRICTIONS.
5. CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
6. SIDEWALKS, CURB RAMPS, RAMPS, AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)" ALONG WITH REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICTS OCCUR BETWEEN ADAAG GUIDELINES AND INFORMATION ON PLANS , THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ANY CONSTRUCTION.
7. PARKING LOT PAVING AND SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1'V:20'H. SLOPED GREATER THAN 1'V:20'H MUST BE DESIGNED AS A RAMP. ALL PAVING AND SIDEWALKS TO BE IN ACCORDANCE WITH A.D.A. STANDARDS.
8. ADEQUATE TEMPORARY PARKING FOR CONSTRUCTION EMPLOYEES SHALL BE PROVIDED. PARKING ON NON SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEES VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.

KEYED SITE PLAN NOTES

1. EXISTING TO REMAIN. NO WORK. PROTECT FROM DAMAGE DURING CONSTRUCTION.
2. EXTEND NEW PAVEMENT TO EDGE OF BUILDING, SLOPE 1/8" PER FOOT AWAY FROM BUILDING.
3. EXISTING RETAINING WALL TO REMAIN.
4. EXTEND / REWORK ROOF DOWNSPOUT ROUTED THRU NEW OR EXISTING RETAINING WALL "DAYLITED" TO TOP OF PAVEMENT. VERIFY SYSTEM IN FIELD.
5. NEW SEGMENTED CONCRETE BLOCK RETAINING WALL FOR NEW PLANTER - MATCH BLOCK STYLE, COLOR AND HEIGHT ON SOUTH SIDE. STEP WALL WITH EXISTING GRADE AS REQUIRED. PLANTER TO BE FILLED WITH CLEAN PLANTING SOIL, LANDSCAPED AND 3" MULCH BED. SEE 5/A1.0
6. PROVIDE NEW 6" WIDE BY 6" HIGH CONC. CURB. MAINTAIN EXISTING SITE CONTOURS AS POSSIBLE.
7. PROVIDE CONC. PARKING WHEEL STOPS & WHITE STRIP PARKING AS INDICATED.
8. ADA HANDICAPPED ACCESSIBLE - SPOT - INCLUDE ADA SIGNAGE AS REQUIRED. SEE DETAIL THIS SHEET.
9. PATCH IN NEW ASPHALT PAVEMENT MATCHING EXISTING AROUND ALL NEW CONSTRUCTION. PROVIDE POSITIVE DRAINAGE TO EXISTING DRAINAGE PATTERNS TO AVOID PONDING AND LOWSPOTS.
10. NEW REINFORCED CONCRETE WALK 4" THICK W/ WWF ON ROCK BASE, SEE STRUCT. DTL. 8/S5.1. THICKEN TO 8" AT DOOR AND DOWEL INTO FOUNDATION BELOW SILL. SLOPE WALK AWAY FROM BUILDING 1/4"/ FT.
11. NEW CONCRETE LANDING WALK PER NOTE "10". AND NEW CONCRETE STEPS DOWN TO EXISTING GRADE. RISER TO BE NO LESS THAN 7" WITH 1"R BULLNOSE AND TREADS 12" DEEP. REINFORCE W/ #4'S 12" EA WAY & THICKEN STEPS WITH LEAN CONCRETE TO 30" TO PREVENT FROST HEAVE. PROVIDE 1-1/2" DIA PTD. GALV PIPE HANDRAILS WHERE SHOWN.
12. SAWCUT EDGE OF EXISTING SLAB AT FACE OF BRICK COLUMN.
13. NEW DOOR LOCATION. CONFIRM EXISTING SLAB IS DOWELED INTO EXISTING FOUNDATION WALL BELOW NEW DOOR SILL TO PREVENT FROST HEAVE.
14. EXISTING EXPOSED AGGREGATE CONRETE SLAB. PROTECT DURING CONSTRUCTION.
15. PROVIDE NEW REPLACEMENT DOWNSPOUTS AS OCCURS. SEE ROOF PLAN A2R.0



5 SEGMENTED RET. WALL
SCALE: 1/2" =1'-0"

STATE OF MISSOURI
BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
02.22.21

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USED CAR BUILDING RENOVATIONS

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20034.00

ARCHITECTURAL SITE PLAN

A1.0

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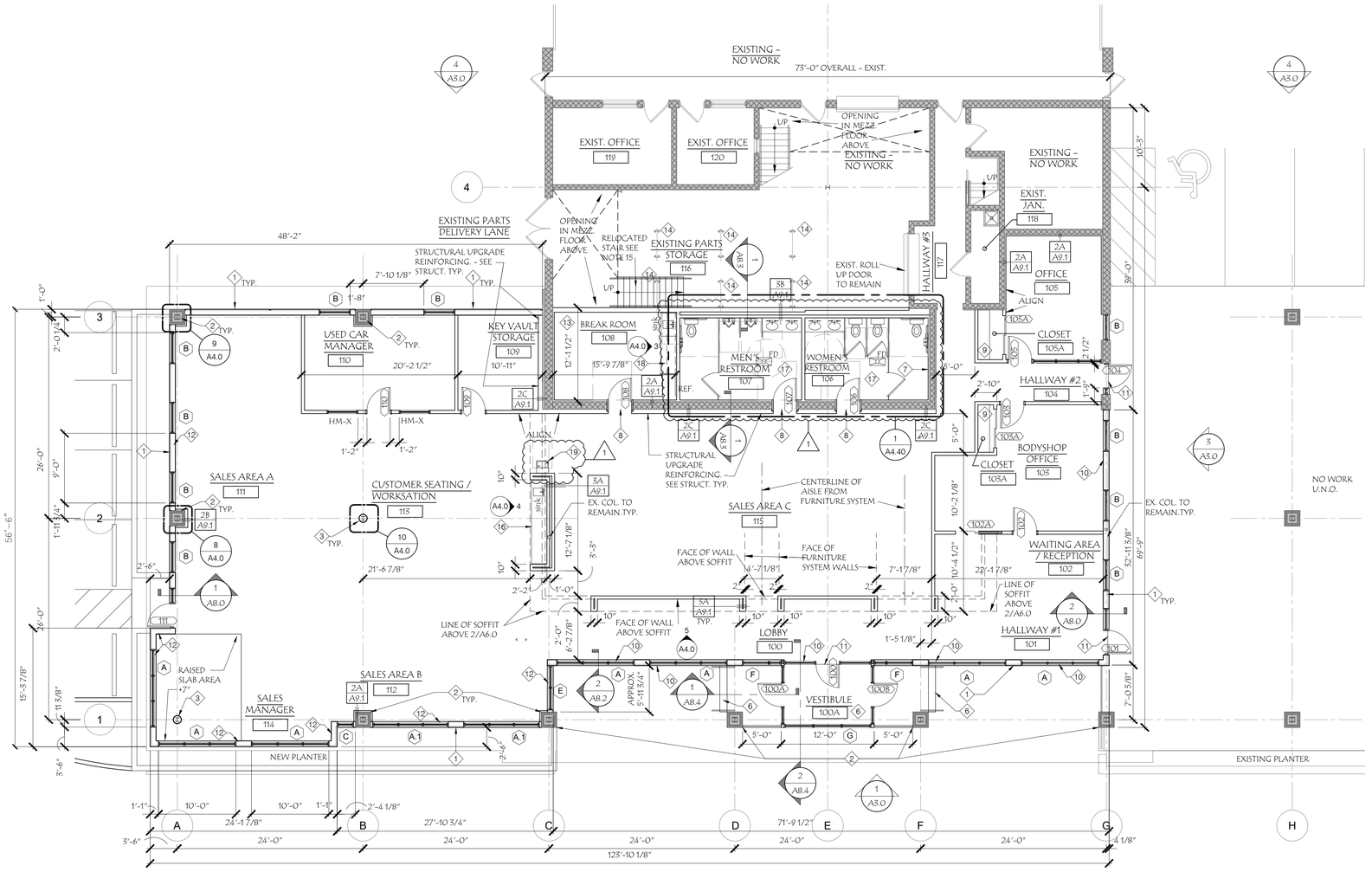


1 MAIN FLOOR PLAN

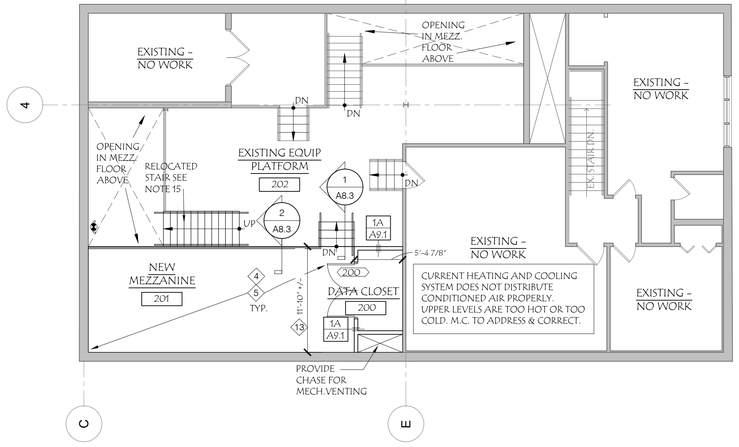
SCALE: 1/8"=1'-0"

NORTH

PLAN LEGEND

- NEW PARTITION
- NEW DOOR IN NEW PARTITION
- EXISTING PARTITION
- EXISTING DOOR IN EXISTING PARTITION

NOTE: PORTABLE FIRE EXTINGUISHERS (TYPE 2-A) SHALL BE WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING. CONFIRM FINAL LOCATIONS WITH FIRE MARSHAL IN FIELD.



2 SECOND FLOOR PLAN

SCALE: 1/8"=1'-0"

GENERAL PLAN NOTES

CONSTRUCTION PREP:

1. GENERAL CONTRACTOR AND / OR SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS' RECOMMENDATION.
2. WITHIN EXIST BLDG ALL EXISTING ADHESIVES, LOOSE MATERIALS AND DEBRIS ARE TO BE COMPLETELY REMOVED AND GROUND SMOOTH FOR A SOLID SMOOTH, FLAT SUBSTRATE FOR SCHEDULED NEW MATERIALS PER MANUFACTURERS' RECOMMENDATIONS.

LAYOUT:

3. DO NOT SCALE DRAWINGS.
4. ALL DIMS TO BE FIELD VERIFIED. ARCHITECT TO BE NOTIFIED OF ANY DISCREPANCIES.
5. THE WORD "ALIGN" AS USED IN THESE DOCS SHALL SUPERCEDE ANY DIMENSIONAL INFO INDICATED. IF DISCREPANCIES OCCUR, NOTIFY THE ARCHITECT IMMEDIATELY.
6. TYPICAL DIMENSIONS ARE TO FACE OF NEW CONSTRUCTION, OR TO COLUMN CENTER LINE. REFER TO PLAN DETAILS FOR ADDITIONAL DIMENSIONS.
7. ALL ANGLES SHOWN ARE 45°, 90°, OR 135° UNLESS NOTED OTHERWISE.
8. DO NOT SCALE THE DRAWINGS. WORKING FROM ESTABLISHED LINES AND POINTS, ESTABLISH AND MAINTAIN DEPENDABLE MARKERS FOR LINES AND LEVELS OF WORK. CALCULATE DIMS AND MEASURE FOR LAYOUT OF WORK. RECORD DEVIATIONS (IF ANY) FROM DWG INFO ON EXIST CONDITIONS AND REVIEW WITH ARCHITECT/ENGINEER AT TIME OF DISCOVERY.
9. FOLLOW WRITTEN DIMS AND LAYOUT POINTS ONLY. CONTRACTOR SHALL EXERCISE SPECIAL CARE IN THE VERIFICATION OF ALL CONDITIONS AND DIMS IN THE LAYOUT OF HIS WORK. THE ALIGNMENT IN COORDINATION OF HIS WORK ITSELF AND OTHER ADJACENT WORK IS OF PRIMARY IMPORTANCE AND SHALL TAKE PRECEDENCE OVER DIMENSIONS, ESPECIALLY THOSE INDICATED AS APPROXIMATE. CONTRACTOR SHALL LAY OUT AND VERIFY HIS WORK TO ENSURE ALIGNMENT AND FIT AND REPORT ANY DISCREPANCIES IMMEDIATELY TO HIS SUPERINTENDENT AND THE ARCHITECT BEFORE PROCEEDING OR PROCEED AT CONTRACTOR'S OWN RISK.
10. SLOPE CONCRETE SLAB TO FLOOR DRAINS IS OF PRIMARY IMPORTANCE AND SHOULD TAKE PRECEDENCE OVER DIMENSIONS, ESPECIALLY THOSE INDICATED AS APPROXIMATE. CONTRACTOR SHALL LAY OUT AND VERIFY HIS WORK TO ENSURE ALIGNMENT AND FIT, AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.

PROTECTION:

11. THE GENERAL CONTRACTOR IS TO PROVIDE PROTECTION TO ANY COMPLETED WORK, (I.E. CEILING GRID, ETC.) DURING CONSTRUCTION BY WHATEVER MEANS NECESSARY TO MAINTAIN ANY COMPLETED FINISHES IN NEW CONDITION TO THE POINT OF OWNER MOVE-IN AND ACCEPTANCE. ANY DAMAGED WORK, SCRATCHED, MARKED OR IN ANY WAY IMPAIRED MATERIAL FOUND BY THE OWNER'S REPRESENTATIVE WILL BE REPLACED AT NO EXTRA COST TO THE OWNER.

PARTITIONS:

12. AT LOCATIONS WHERE A ROOM WITH A CEILING IS NEXT TO A ROOM WITH AN EXPOSED STRUCTURE, THE PERIMETER PARTITIONS ARE TO BE EXTENDED TO THE STRUCTURE WHETHER INDICATED OR NOT – SEE SCHEDULES FOR FINISHES AND PARTITION TYPES.
13. ALL PARTITIONS INDICATED ON THE FLOOR PLAN TO BE TYPE 1B–U UNLESS NOTED OTHERWISE. SEE PARTITION TYPES ON SHEET A9.1 FOR PARTITION MATERIALS, THICKNESS AND CONSTRUCTION REQUIREMENTS.
14. ALL INTERIOR FINISHES AND INSULATION SYSTEMS TO HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450.
15. ALL CONTROL JOINTS IN GYP. BD. & PLASTER WALLS AND/ OR CLGS TO BE LOCATED AS REQ. BY U.S. GYPSUM U.N.O FOR INT. AND EXT. LOCATIONS. FINAL JOINT LOCATIONS ARE TO BE REVIEWED WITH ARCHITECT PRIOR TO INSTALL.
16. AT LOCATIONS WHERE EXIST PARTITIONS WERE REMOVED LEAVING PARTITIONS TO REMAIN, THE EXPOSED SURFACES ARE TO BE CLEAN, PATCHED AND WHEN:
    - 16.1. REPAIRED WITH GYP. BD – FINISH SMOOTH WITH NEW GYP. BD MATERIAL & REQUIRED FRAMING TO MAINTAIN CONTINUANCE OF ADJACENT SURFACES.
    - 16.2. REPAIRED WITH NEW CMU – MATCHING EXISTING "TOOTHED–IN" MATCHING EXISTING COURSING AND THICKNESS OF ADJACENT WALL.
    - 16.3. FINISH WITH COATINGS AND MATERIALS SCHEDULED.

COORDINATION:

17. PROVIDE BITUMINOUS COATING BETWEEN ALL DISSIMILAR METALS.
18. ALL WOOD IN DIRECT CONTACT WITH CONCRETE TO BE TREATED WOOD U.N.O.
19. SEE SHEET A9.0 FOR ALL SCHEDULED DOORS, FRAMES TYPES, HARDWARE AND DETAILS.
20. ALL INTERIOR WOOD BLOCKING TO BE FIRE–TREATED.

STRUCTURAL:

21. REFER TO STRUCT. DWGS. FOR FTGS, COLUMN, ROOF, AND FLOOR DETAILS.
22. ALL FOUNDATION WALLS IN EXCAVATED AREAS TO BEAR ON AND BE FORMED BY CLEANED, UNDISTURBED, VIRGIN SUB–SOIL.
23. SEE STRUCTURAL FOR CONSTRUCTION AND CONTROL JOINTS IN FLOOR SLABS.
24. WHERE DOWELING THE SIDEWALK SLAB INTO THE FDN. IS NOT SHOWN: INSTALL LEAN CONC. FILL TO A DEPTH BELOW FROST AT BLDG ENTRANCES TO PREVENT FROST HEAVE OF SIDEWALK SLABS BELOW DOOR OPENINGS.

MECH/ ELECT/ PLUMB/ FIRE PROTECTION:

25. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE ALL ELECTRICAL REQUIREMENTS FOR, PLUMBING AND MECHANICAL WORK COORDINATED WITH THE ELECTRICAL CONTRACTOR FOR ALL AREAS OF THE WORK WHETHER SHOWN ON THE DRAWINGS OR NOT – AT NO EXTRA COST TO THE OWNER..
26. ALL EGRESS DOORS TO RECEIVE A COMBINATION EXIT LIGHT AND EMERGENCY LIGHT SYSTEM W/ 90 MIN. BATTERY EMERGENCY POWER. SEE DESIGN / BUILD ELEC. DRAWINGS.
27. REFER TO DESIGN / BUILD! MECH., ELEC. AND PLUMB. DRAWINGS FOR ALL MEP RELATED WORK.

KEYED PLAN NOTES

1. NEW EXTERIOR WALL CONSTRUCTION SEE STRUCT. & WALL SECTIONS ON A8.0–THRU 8.3 DRAWINGS.
2. EXISTING COLUMN & MASONRY W/ NEW GYP. BD. FURRING, SEE 8 & 9/A4.0.
3. EXISTING W6 STL. COLUMN & FOUNDATION TO REMAIN. WRAP W/ ROUND COLUMN COVER, SEE 10/A4.0 & STRUCT.
4. REWORK / REMOVE PORTION OF EXIST. MEZZ. OPEN GRATE STORAGE SYSTEM FOR NEW TOILET ROOMS & BREAK ROOM. STAIRS SHALL BE PROVIDED /RELOCATED BY OWNER'S VENDOR.
5. NEW FLOOR/CEILING ABOVE TOILET ROOMS & BREAK ROOM FOR STORAGE OF AUTO PARTS. T.O. FLOOR SHALL BE AT 10'–4" A.F.F. CONFIRM HEIGHT IN FIELD SEE WALL SECTION SHEET A8.3
6. PROVIDE NEW CONC. LANDING AND STAIRS W/ ALUM. STOREFRONT ENTRY VESTIBULE. INCLUDE GALVANIZED HANDRAILS AS INDICATED. SEE SHEET A8.2 & STRUCT.
7. FURR OUT 5/8" GYP. BD. OVER EXISTING CMU WALL. SEE PARTITION TYPES ON SHEET A9.1
8. PROVIDE NEW STEEL LINTEL FOR NEW OPENING IN EXISTING CMU WALL. SEE STRUCT. DRAWINGS.
9. PROVIDE SHELF & ROD ASSEMBLY AT CLOSET. SEE DETAIL 8/A9.1
10. NEW WALL CONSTRUCTION ON TOP OF EXIST FOUNDATION WALL. SEE STRUCT. DRAWINGS.
11. DOOR IS IN NEW LOCATION. CONFIRM INTERIOR FLOOR SLAB AND EXTERIOR WALK SLAB ARE DOWELED INTO EXISTING FOUNDATION WALL BELOW NEW DOOR SILL. SEE STRUCT. (EXISTING DRAWINGS SHOWS THEM AS DOWELED TOGETHER)
12. NEW WALL ON NEW GRADE BEAM FOUNDATION. SEE STRUCT. DRAWINGS.
13. NEW BREAKROOM AND RESTROOM, WIDTH IS BASED ON EXISTING DIMENSION BETWEEN EXIST CMU AND NEW PARTITION SNUG AGAINST EXISTING SUPPORT FRAME LEG. HOLD AS TIGHT AS POSSIBLE.
14. EXISTING STEEL SUPPORT FRAME TO REMAIN – FOR SUPPORT OF METAL GRATE MEZZANINE FLOOR ABOVE TO REMAIN.
15. RELOCATE EXISTING FLIGHT OF STEEL STAIRS AS INDICATED. MODIFY EXISTING STRUCTURAL MEMBERS (OR ADD NEW)AS REQUIRED FOR NEW OPENING IN MEZZANINE FLOOR FOR RELOCATED STAIR. PROVIDE NEW GUARDRAIL MATCHING EXISTING ALONG EDGE OF NEW OPENING.
16. COFFEE BAR W/ 34" BASE CABINETS. INCLUDE SOLID SURFACE COUNTERTOP & U.C. BAR SINK, WATERLINE FOR COFFEE MAKER & U.C. REF.
17. PROVIDE NEW TOILET ROOMS COMPLETE. INCLUDES PLUMBINGS FIXTURES, ACCESSORIES, CERAMIC TILE FLOORING & WET WALL TO 7'–4" A.F.F., SOLID SURFACE COUNTERTOP W/ INTEGRAL BOWLS, MIRROR, SOLID PHENOLIC TOILET PARTITIONS, LED LIGHTING & SLAB WORK FOR NEW FLOOR DRAIN.
18. BREAK ROOM CASEWORK W/ 36" BASE CABINETS & 24" UPPER CABINETS. SOLID SURFACE COUNTERTOP W/ UNDER MOUNT SINK & FAUCET. INCLUDE 5 H.P. BADGER GARBAGE DISPOSAL AT SINK. REFRIGERATOR & MICROWAVE EQUIP. BY OWNER.
19. ADA ACCESSIBLE ELECTRIC WATER COOLER. COORDINATE WITH OWNER FOR MODEL AND STYLE.

1

STATE OF MISSOURI
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PERMIT SET	2-22-2021
COUNTY MEP REVIEW	04/12/2021

PROJECT NUMBER:
20034.00

FLOOR PLAN

A2.0

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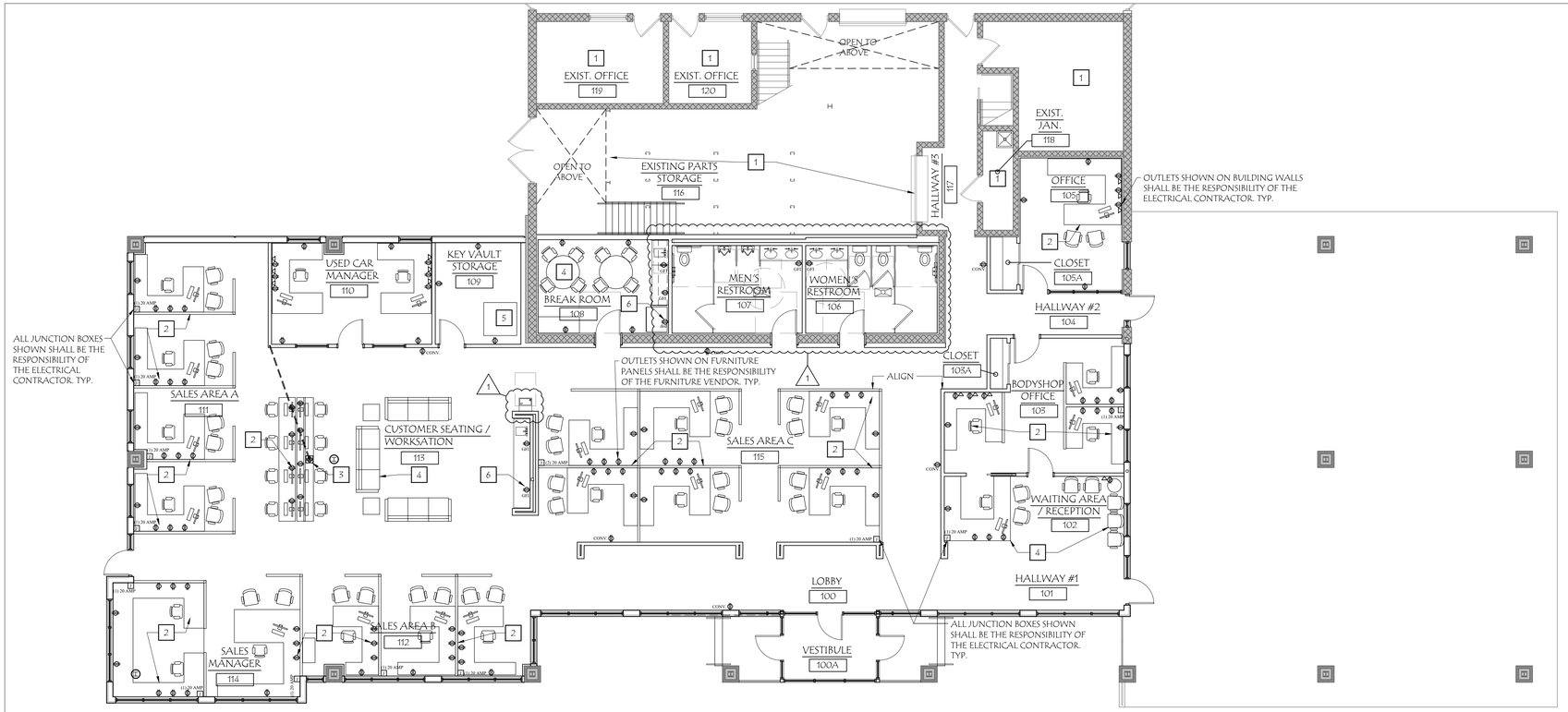
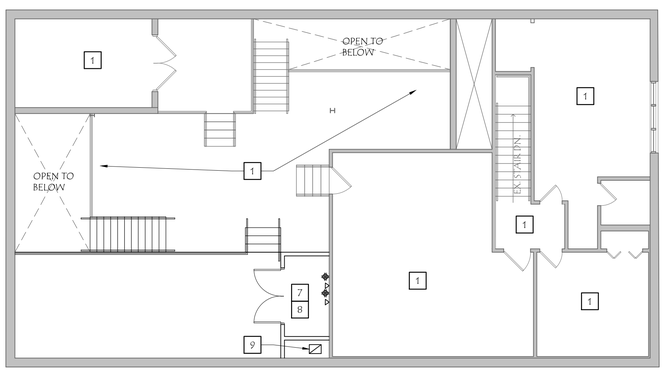


1 MAIN FLOOR POWER PLAN

1/8"=1'-0"

NORTH



2 SECOND FLOOR POWER PLAN

SCALE: 1/8"=1'-0"

GENERAL ELECTRIC NOTES

A. CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND VERIFY ALL CONDITIONS, MATERIALS, AND DIMENSIONS WHICH WILL AFFECT THE WORK.

B. ALL WORK, INCLUDING ELECTRICAL AND GROUNDING SYSTEMS SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY. LATEST EDITION OF THE ICC ELECTRICAL CODE AND OTHER APPLICABLE LOCAL CODES AND ORDINANCES.

C. ALL CONTROL WIRING, INCLUDING TELEVISION, ETC. IN PLENUM AREAS SHALL BE RUN IN CONDUIT.

D. PROVIDE GFI OUTLETS AT ALL "WET" LOCATIONS AS REQUIRED.

E. ELECTRICAL OUTLETS AND BOXES IN COMMON WALLS BETWEEN ADJACENT ROOMS SHALL NOT BE INSTALLED BACK TO BACK. BOXES SHALL BE UL RATED FOR RATED WALL INSTALLATION AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS (MIN. OF 20" HORIZONTAL SEPARATION). IF BOXES CANNOT BE INSTALLED THIS WAY AND ARE CLOSER THEN MINIMUM DISTANCE THEY SHALL BE WRAPPED WITH FIRE PUTTY BLANKET AS PER UL DESIGN.

F. PROVIDE WORKING CLEARANCES REQUIRED BY THE CODE AT ALL ELECTRICAL EQUIPMENT.

G. ALL EXIT, EMERGENCY, AND NIGHT LIGHT S SHALL BE WIRED UNSWITCHED

H. WHERE EQUIPMENT IS NOTED "BY OWNER" ON THE DRAWINGS, THE ITEM WILL BE DELIVERED TO THE JOB SITE BY THE OWNER TO BE INSTALLED BY THE CONTRACTOR OR SUB-CONTRACTOR.

TRADES LISTED BELOW WILL BE RESPONSIBLE TO PROVIDE THEIR OWN PERMIT/ DESIGN DRAWINGS AND GET THEM APPROVED BY LOCAL GOVERNING AGENCY. THOSE TRADES WILL BE CONSIDERED ON A DESIGN-BUILT BASIS AND NEED TO BE REFLECTED IN GENERAL CONTRACTORS BID.

I. IT IS HVAC CONTRACTORS RESPONSIBILITY TO TO SPEC NEW DIFFUSERS, BRANCH DUCTS, BALANCE SYSTEM AS REQUIRED BY LOCAL GOVERNING CODE.

J. IT IS ELECTRICAL CONTRACTORS RESPONSIBILITY TO CHECK LIGHT LEVELS AND QUALITY ARE CONFORMING TO LOCAL CODES. PROVIDE NEW WIRING AND LIGHT FIXTURES AS REQUIRED.

K. ALL ELECTRICAL WORK IS DESIGN BUILD. INSPECT EXISTING ELECTRICAL EQUIPMENT & ANALYZE CAPACITY. MAKE RECOMMENDATIONS FOR UPGRADES, REPAIRS & EXTENDING ELECTRICAL SERVICE FOR THE EXISTING AND ADDED SPACES. THIS PLAN IS SHOWN FOR DESIGN INTENT ONLY.

ELECTRICAL LEGEND

- DUPLEX OUTLET (TYP. @ 1'-6" A.F.F.)
- GFI DUPLEX OUTLET-GFI
- QUADPLEX OUTLET
- FLOOR QUADPLEX OUTLET
- J JUNCTION BOX
- OS OCCUPANCY SENSOR
- $ SWITCH
- $3 SWITCH-3 WAY
- $DM SWITCH-DIMMER
- PHONE / DATA
- CONV. CONVENIENCE OUTLET
- DED DEDICATED OUTLET
- T THERMOSTAT

NOTE: ALL SYMBOLS ARE SHOWN FOR CLARITY & COORDINATION - SEE ELECTRICAL DESIGN-BUILD PLANS FOR EXACT LOCATIONS OF ELECTRICAL EQUIPMENT & FIXTURES.
'E' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS EXISTING TO REMAIN
'N' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS NEW.
'R' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS RELOCATED.
'#' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE'S HEIGHT A.F.F.
ALL HEIGHTS ARE CENTERLINE OF FIXTURE.

X KEYED POWER PLAN NOTES

1. EXISTING CONDITIONS TO REMAIN - NO WORK.
2. OWNER SYSTEM FURNITURE - N.I.C. OWNER'S VENDOR IS RESPONSIBLE FOR PRODUCT, INSTALLATION PLANS, INSTALLATION, AND ELECTRICAL DATA, POWER, & COMM. AS PART OF THE SYSTEMS FURNITURE. CONNECTIONS TO BUILDING ELECTRIC & NECESSARY PERMITS SHALL BE THE RESPONSIBILITY OF THE E.C. - E.C SHALL COORDINATE WITH VV VENDOR. FOR EXACT LOADS AND LOCATIONS OF JUNCTION BOX FOR POWER.
3. PROVIDE FLUSH FLOOR MOUNTED QUAD OUTLET FOR CONNECTION SYSTEMS FURN. PHONE / DATA AND COMM.WITH CONDUIT BY VENDOR. COORDINATE LOCATION W/OWNER'S VENDOR IN FIELD. FEED OUTLET WITH UNDERSLAB CONDUIT FROM ADJACENT WALL.
4. OWNER FURNITURE- N.I.C. - BY OWNER VENDOR.
5. OWNER KEY VAULT - N.I.C. - BY OWNER VENDOR.
6. PROVIDE DEDICATED OUTLET FOR OWNER EQUIPMENT, REF. MICROWAVE. COFFEE MAKERS, ECT. VERIFY REQUIREMENTS WITH OWNER.
7. PROVIDE (1) 4' X 8' X 3/4" FIRE RETARDANT PLYWOOD PANEL FOR OWNER PHONE EQUIPMENT. VERIFY EXACT SIZE AND LOCATION WITH IT DEPARTMENT (PAINT TO MATCH WALL). TIE ALL LINES TO OWNER PHONE SERVICE AT THIS LOCATION. SERVER EQUIPMENT BY OWNER.
8. PROVIDE 24-HOUR COOLING SYSTEM ON SEPARATE THERMOSTAT. - COORDINATE REQUIREMENT WITH SERVER / & OWNER IT DEPARTMENT.
9. PROVIDE EXHAUST VENT THROUGH ROOF, FOR RESTROOMS BELOW. SEE ROOF PLAN A2R.0

THIS POWER PLAN IS FOR DESIGN INTENT ONLY. VERIFY EXACT LOADS, LOCATIONS & REQUIREMENTS OF ALL POWER, VOICE, DATA COMM. AND HEIGHTS WITH OWNER / IT PRIOR TO INSTALLATION.

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NUMBER AR 005200
REGISTERED ARCHITECT
STATE OF MISSOURI
04.13.21

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BUICK | GMC

PERMIT SET	2-22-2021
1 COUNTY MEP REVIEW	04/12/2021

PROJECT NUMBER:
20034.00

FLOOR POWER PLAN

A2.1

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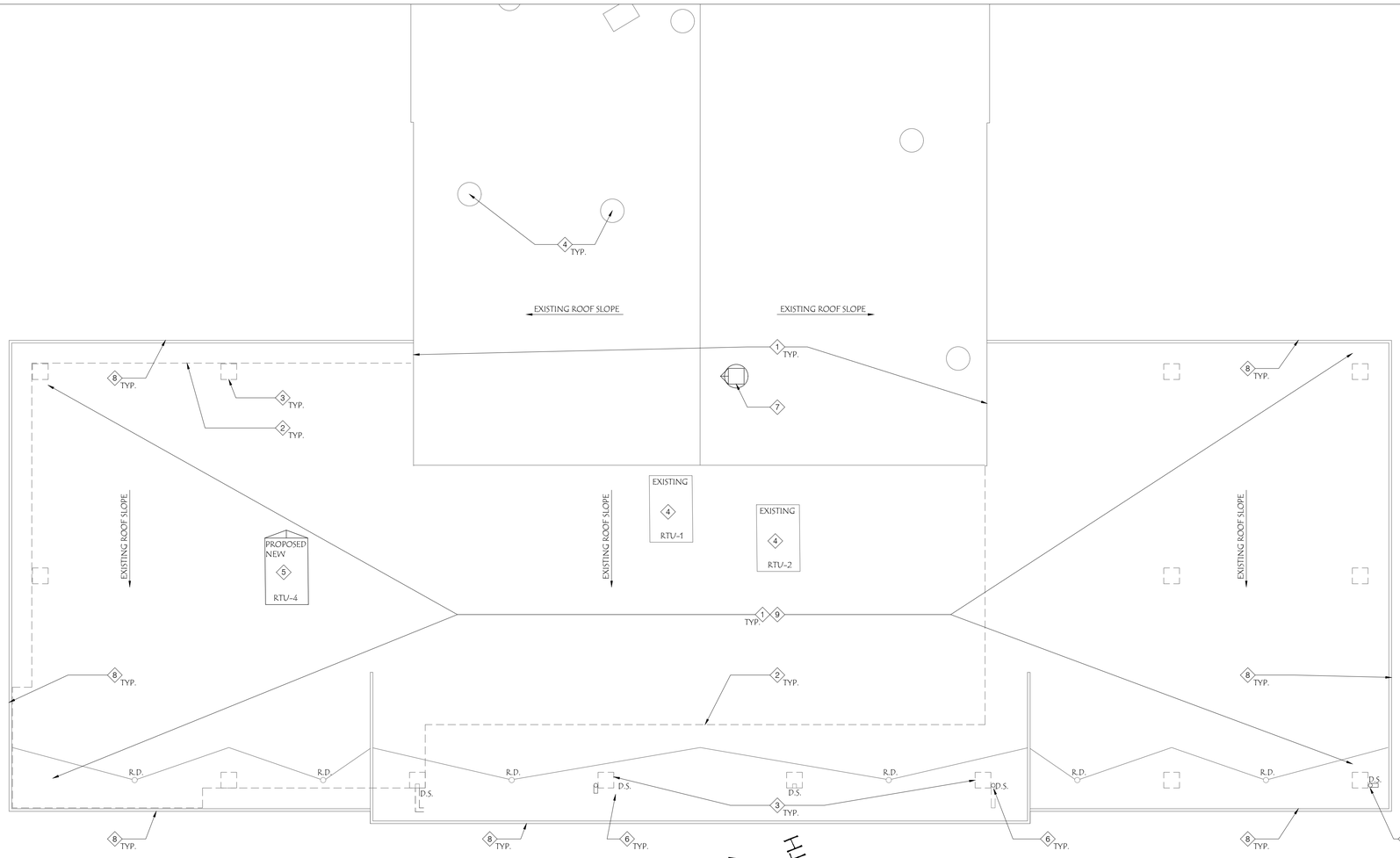


1 ROOF PLAN
SCALE: 1/8"=1'-0"

GENERAL ROOFING NOTES

1) ALL ROOFING PENETRATIONS SHALL BE PLACED A MINIMUM OF 12" AWAY FROM ADJACENT PENETRATIONS, CURB UNITS AND PERIMETER WALLS.

2) NO UNPROTECTED PITCH-POCKETS SHALL BE USED. USE HOODED BOX OR UMBRELLA HOOD DETAIL.

3) WHERE IT IS NECESSARY TO CLUSTER SMALL PIPES (I.E. OR REFRIGERANT LINES) CONSTRUCT METAL BOX WITH HOOD AND ELBOW PIPING 6" TO 12" ABOVE THE MEMBRANE ELEVATION IN ONE OR TWO DIRECTIONS ONLY.

4) ALL PLASTIC PIPES SHALL HAVE A TWO-PART LEAD JACKET OR AN ALTERNATIVE FLASHING THAT ALLOWS FOR DIMENSIONAL CHANGE OF THE PIPING. THE LOW PROFILE TYPE FLANGED-NEOPRENE TYPE FLASHINGS ARE NOT ACCEPTABLE.

5) PIPE SUPPORTS LYING ON THE ROOF SHALL BE CONSTRUCTED UTILIZING TREATED WOOD BLOCKS WITH SHEET METAL COVERS AND LOOSE SHEET METAL STRAPS. BLOCKS SHALL BE SUPPORTED ON WALK PADS WEIGHT ON BLOCKS SHALL NOT EXCEED 1.5 POUNDS PER SQUARE INCH. SEE DETAIL 6/ A2.16.

6) ALL CURBED HVAC UNITS SHALL HAVE 24-GAUGE GALVANIZED IRON SHEET METAL COUNTERFLASHINGS OF MINIMUM OF 4" GIRTH SCREWED TO WOOD BLOCKING AT TOP OF CURB.

7) GAS PIPES AND CONTINUOUS RUNS OF OTHER PIPING SHALL NOT EXCEED 150 FT. OR HAVE "U" EXPANSION JOINT PROVISIONS. GAS PIPE REGULATORS AND T'S OR TRAPS SHALL BE SET MINIMUM 1" ABOVE THE ROOF ELEVATION.

8) ANY NEW ROOF DRAINS SHALL HAVE 30" X 30" 2-1/2 POUND LEAD FLASHINGS & CAST IRON STRAINERS.

9) ROOFTOP PENETRATIONS AND UNITS SHALL HAVE SHOP DRAWINGS SUBMITTED FOR APPROVAL.

10) ALL SHEET METAL TO BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.

11) PROVIDE WALKWAY PROTECTION MATERIAL AS SPECIFIED AROUND MECH. UNITS, ETC.

12) PROVIDE ELECTRICAL OUTLETS AT ROOF TOP UNITS, SEE "E" DRAWINGS.

13) SEE PLUMBING DRAWINGS FOR VENT THRU ROOF (VTR) LOCATIONS AND INTERIOR ROOF DRAINS W/ PRIMARY AND SECONDARY (OVERFLOW) LOCATIONS.

14) PROVIDE TAPERED INSUL. CRICKETS AT ROOF MOUNTED EQUIPMENT, ROOF PENETRATIONS, & AT AREAS SHOWN ON PLANS TO PROVIDE POSITIVE DRAINAGE.

16) WHERE NEW EQUIPMENT IS REQUIRED, G.C. SHALL PROVIDE A ROOF ACCESS WALKWAY OF 18" x 50" WALKWAY ACCESS PADS (AN ADDITIONAL LAYER OF ROOF MEMBRANE) OVER THE BASE LAYER OF ROOF MEMBRANE. WALKWAYS SHALL BE INSTALLED FROM ALL ROOF ACCESS POINTS, IN A DIRECT ROUTE, TO ALL MECHANICAL EQUIPMENT, AND AROUND ALL SIDES OF EQUIPMENT THAT REQUIRES SERVICE.

17) ALL MECHANICAL WORK IS DESIGN / BUILD. INSPECT EXISTING MECHANICAL EQUIPEMENT & ANALYZE CAPACITY. MAKE RECOMMENDATIONS FOR UPGRADES, REPAIRS & EXTENDING OR ADDING UNITS TO HEAT & COOL THE EXISTING AND ADDED SPACES.

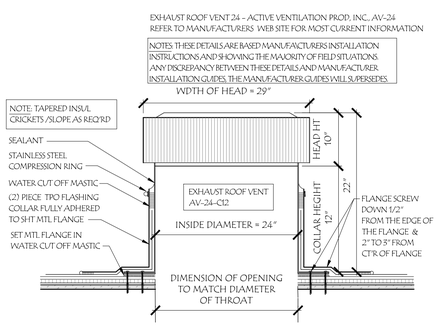
KEYED ROOF PLAN NOTES

1. EXISTING TPO ROOFING W/ R-20 INSULATION TO REMAIN AS POSSIBLE.
2. EXTERIOR WALL LINE BELOW.
3. EXTERIOR COLUMN BELOW.
4. EXISTING ROOFTOP EQUIPMENT TO REMAIN.
5. NEW PROPOSED RTU. INCLUDE ROOF CRICKET. SEE MECH & STRUCTURAL. PROVIDE CURB AND FLASHING AS REQUIRED. SEE DETAIL 3 & 4/A2R.0
6. RE-WORK EXISTING ROOF DRAIN DOWNSPOUT WITH 6" ROUND PRE-FINISHED ALUM. DOWNSPOUT TO GRADE. DISCHARGE ON GRADE.
7. NEW EXHAUST VENT FOR RESTROOMS BELOW. INCLUDE ROOF CRICKET. SEE DESIGN / BUILD MECH. SEE DETAIL 2 & 4/A2R.0
8. NEW PRE-FINISHED ALUM. PARAPET WALL CAP. COLOR "BLACK" TO MATCH STOLIT MILANO METAL PANEL FINISH. SEE EXTERIOR ELEVATIONS A3.0
9. REPAIR EXISTING TPO ROOFING AT TERMINATIONS AND CORNERS AS REQUIRED PER RECENT ROOF INSPECTION BY ROOFING CONTRACTOR.

NOTE: ALL M.E.P. IS DESIGN / BUILD. THIS ROOF PLAN IS FOR DESIGN INTENT & REFERENCE ONLY. VERIFY EXISTING CONDITIONS IN FIELD.

ROOF LEGEND

	TAPERED INSULATION BUILT-UP IN MULTIPLE LAYERS ABOVE THE TYPICAL FIELD ROOF INSULATION - SEE DTL. X/ A2.XX CRICKET TO PROVIDE 1/4" PER FOOT SLOPE (MIN)
V	VENT THRU ROOF
RTU	ROOF TOP UNIT
SF	SUPPLY FAN
MAU	MAKEUP AIR UNIT
RD	TYPICAL ROOF DRAIN SEE DETAIL 11 / A2.16
RD	PRIMARY & SECONDARY ROOF DRAINS - SEE PLUMBING DWGS.
OVF	THRU-WALL OVERFLOW (SECONDARY) ROOF DRAINS - SEE PLUMBING DWGS.
	ROOF EXHAUST FAN
626'-11"	TOP OF ROOF ELEVATION (AT TOP OF RIGID INSULATION - UNLESS NOTED OTHERWISE)
	DASHED LINES INDICATE SLOPE PLANE OF NEW ROOF STRUCTURE OR EXISTING GYPSUM DECK.



2 EXHAUST ROOF VENT DETAIL
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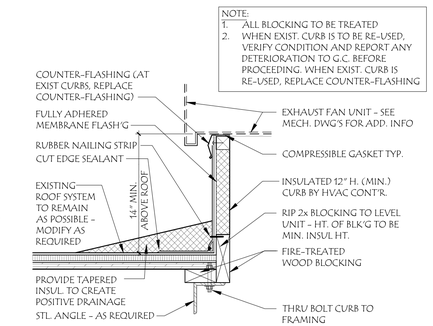

3 RTU CURB DETAIL
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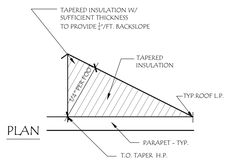

4 SINGLE PLY ROOF DETAIL
SCALE: 1"= 1'-0"

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02.22.21
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USED CAR BUILDING RENOVATIONS
5655 S LINDBERGH BLVD
ST. LOUIS, MO, 63123

Dave Sinclair Buick - GMC
BUICK | GMC

2-22-2021
PERMIT SET

PROJECT NUMBER: 20034.00

ROOF PLAN

A2R.0

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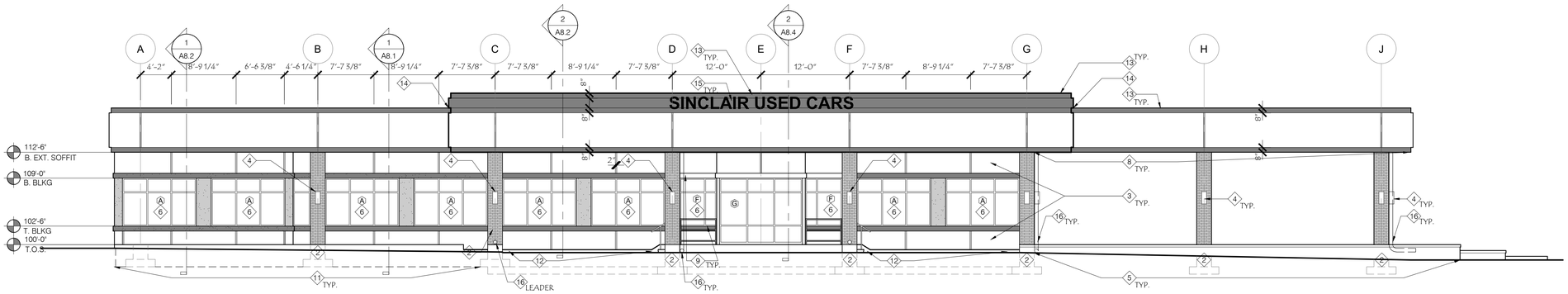

1 FRONT- WEST ELEVATION
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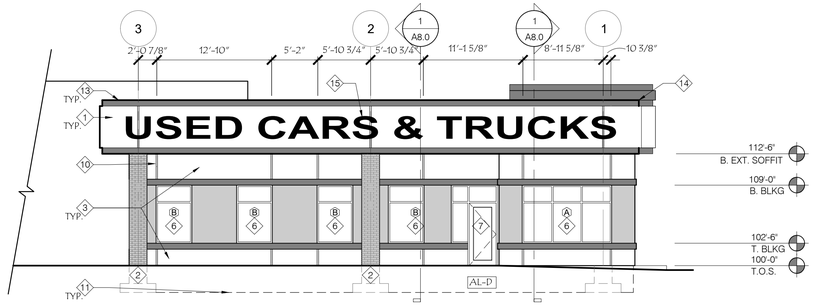

2 PARTIAL NORTH ELEVATION
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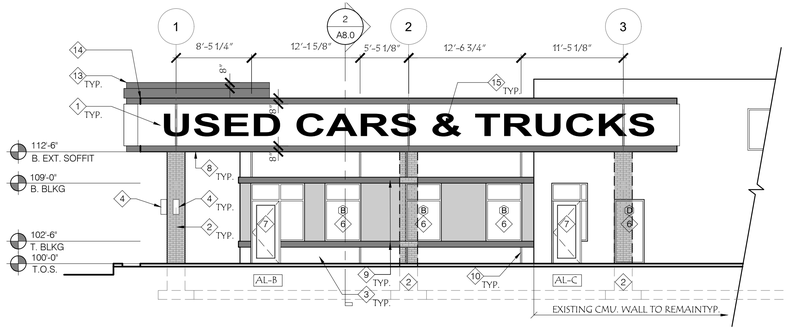

3 PARTIAL SOUTH ELEVATION
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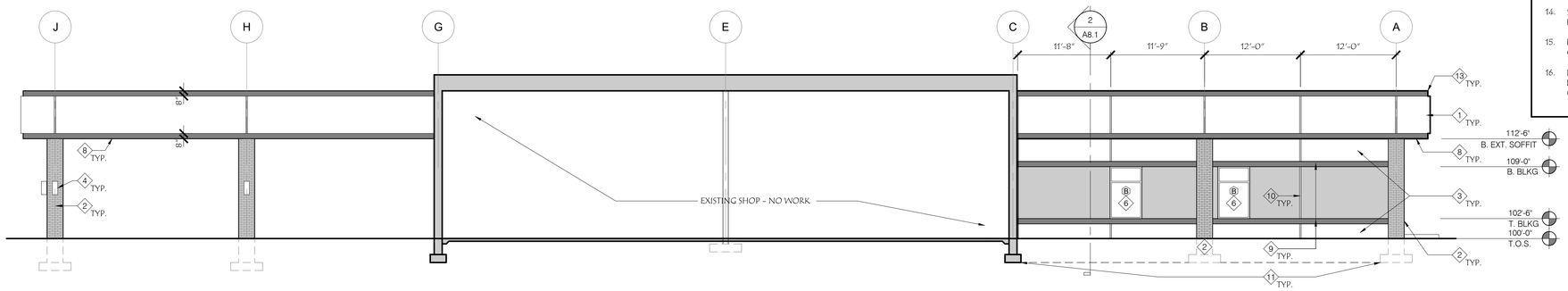

4 REAR - EAST ELEVATION
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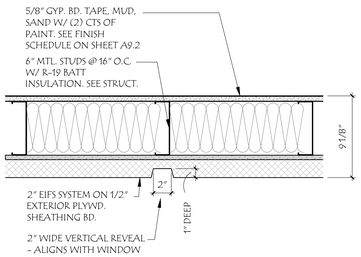

5 TYP. DETAIL - EIFS REVEAL
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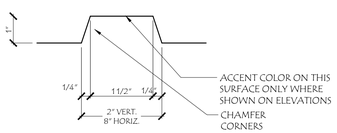

6 EIFS REVEAL DIM'S
SCALE: N.T.S.

KEYED EXTERIOR ELEVATION NOTES

1. NEW STO STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM ON 1/2 PLYWD. SHEATHING AT EXISTING PARAPET. SEE COLOR SCHEDULE BELOW.
2. EXISTING BRICK COLUMN TO REMAIN. CLEAN BRICK & TUCKPOINT AS REQUIRED. PAINT 'GREY' TO MATCH STOLIT MILANO METAL PANEL FINISH.
3. NEW STO STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM ON 1/2 PLYWD. SHEATHING ON TYPICAL WALL FRAMING. SEE WALL SECTIONS.
4. NEW EXTERIOR GRADE LED ACCENT LIGHT FIXTURE. SELECTION TO FOLLOW.
5. EXISTING EXTERIOR SLAB & PLANTER TO REMAIN. CLEAN, REPAIR, PATCH WHERE REQUIRED.
6. NEW CLEAR ANODIZED ALUMINUM STOREFRONT WINDOW SYSTEM W/ 1" INSULATED GLASS. SEE SHEET A9.0 FOR WINDOW ELEVATION / SIZES
7. NEW CLEAR ANODIZED ALUM. STOREFRONT ENTRY DOOR(S) W/ 1" INSULATED SAFETY TEMPERED GLASS. SEE DOOR SCHEDULE SHEET A9.0.
8. NEW EXTERIOR ACOUSTICAL CEILING TILES, RE-USE & PAINT EXISTING GRID 'SILVER' SUSPENDED FROM STRUCTURE ABOVE. INCLUDE NEW INDIRECT LED LIGHTING FIXTURES.
9. PROVIDE NEW STO STOLIT MILANO METAL PANEL FINISH AT FLANGED WINDOW SILL ACCENT BAND & FLANGED HEADER ACCENT BAND. SEE COLOR SCHEDULE BELOW. SEE STANDARD STO DETAILS ON SHEET A3.1.
10. PROVIDE 2" REVEAL @ STOLIT MILANO SYSTEM, ALIGN WITH WINDOW FRAME ADJACENT. SEE DETAIL 5/A3.0 THIS SHEET.
11. CONC. GRADE BEAM FOUNDATION. SEE STRUCT. DRAWINGS. G.C. TO PROVIDE & INSTALL.
12. EXPOSED CONCRETE FOUNDATION - APPLY STOLIT MILANO SYSTEM TO FACE OF CONC. FOUNDATION. USE 'SILVER' STOLIT MILANO METAL PANEL FINISH. SEE COLOR SCHEDULE THIS SHEET. ALTERNATE DEDUCT TO USE ONLY "SILVER" PAINT.
13. PRE-FINISHED ALUM. PARAPET ROOF CAP. 8" H. PREFINISHED 'BLACK' TO MATCH STOLIT MILANO METAL PANEL FINISH. SEE COLOR SCHEDULE BELOW.
14. SEE SHEET A3.1 FOR STO STANDARD - SADDLE FLASHING DETAIL AT TRANSITION FROM PARAPET TO HIGHER WALL ABUTMENT.
15. BUILDING SIGNAGE BY OWNER'S VENDOR. SHOWN FOR DESIGN INTENT ONLY. COORDINATE WITH OWNER'S VENDOR. E.C. SHALL PROVIDE ELEC. JUNCTION BOX.
16. REPLACE DOWNSPOUTS W/ PRE-FINISHED ALUM. 6" ROUND DOWNSPOUT AND DISCHARGE LEADER. COLOR TO THE "GREY" TO MATCH COLUMN. CONFIRM SCOPE OF WORK IN FIELD.

EXTERIOR COLOR LEGEND

	'SILVER' COLOR EXT. PT-4 (STO 800 SERIES 037110) STOLIT MILANO METAL PANEL FINISH
	'BLACK' COLOR EXT. PT-5 (STO 800 SERIES 05700) STOLIT MILANO METAL PANEL FINISH
	'GREY' COLOR EXT. PT-6 (STO 800 SERIES 05707) STOLIT MILANO METAL PANEL FINISH

BRIAN MARK ZWICK
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REGISTERED ARCHITECT
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02.22.21

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2-22-2021
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PROJECT NUMBER:
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EXTERIOR ELEVATIONS

A3.0

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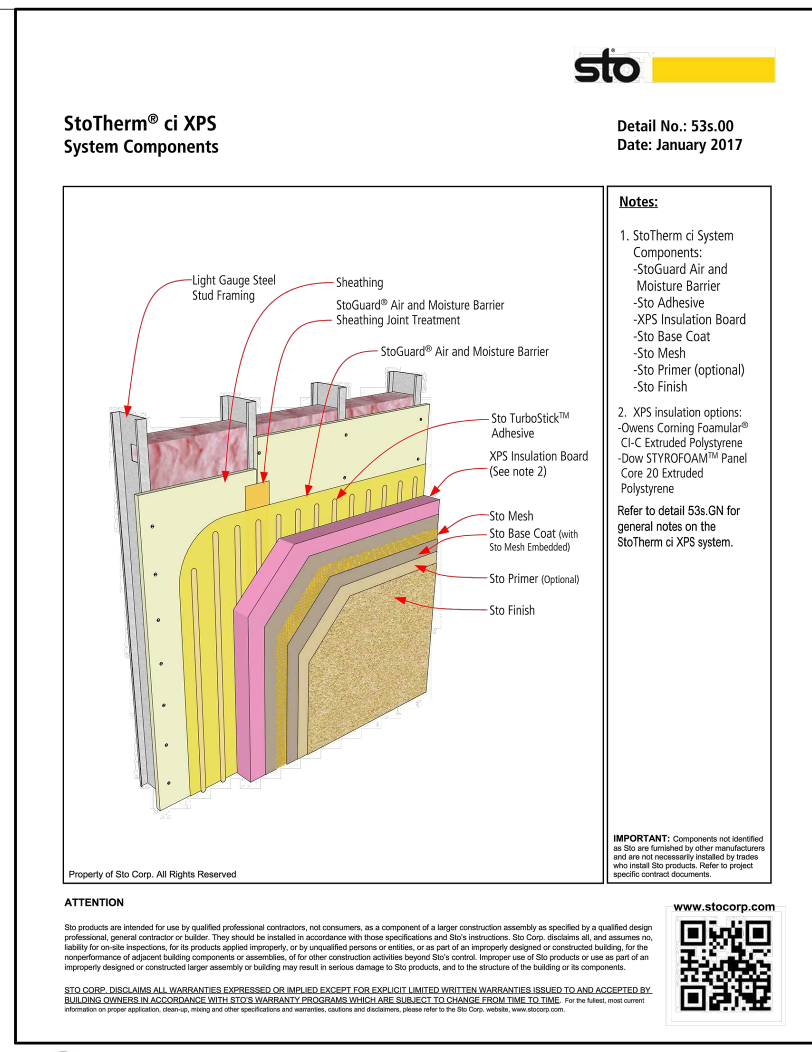

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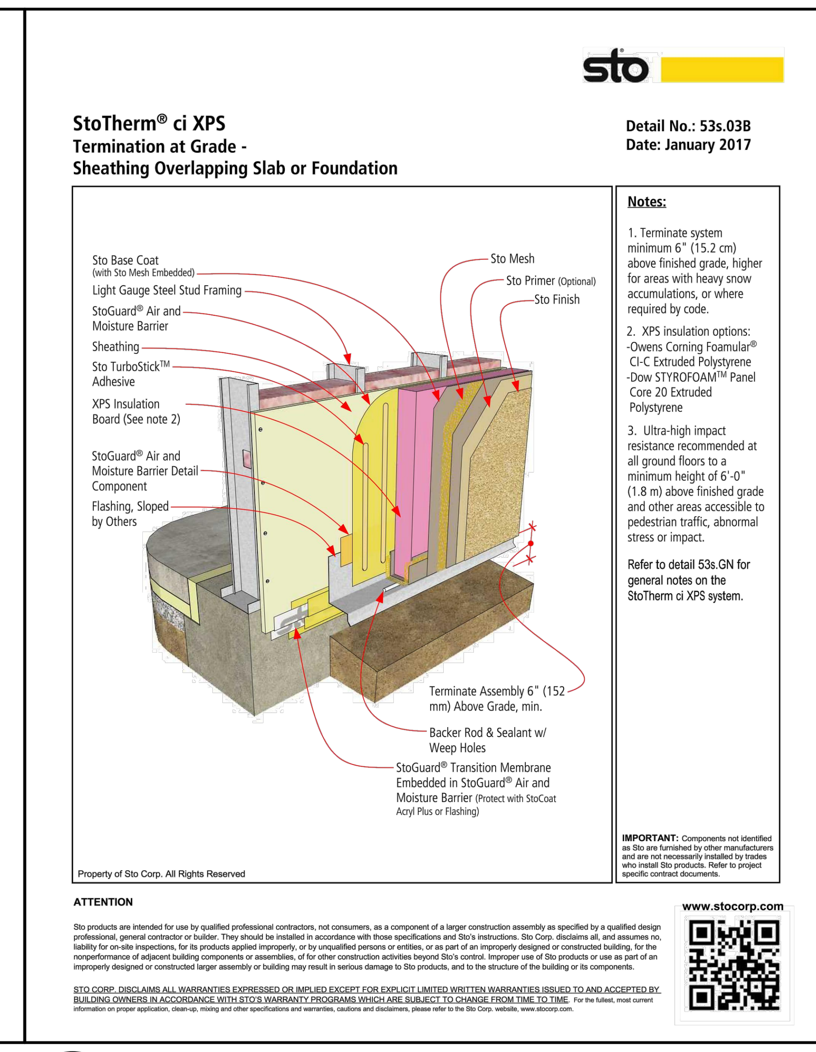

2 TERMINATION @ GRADE
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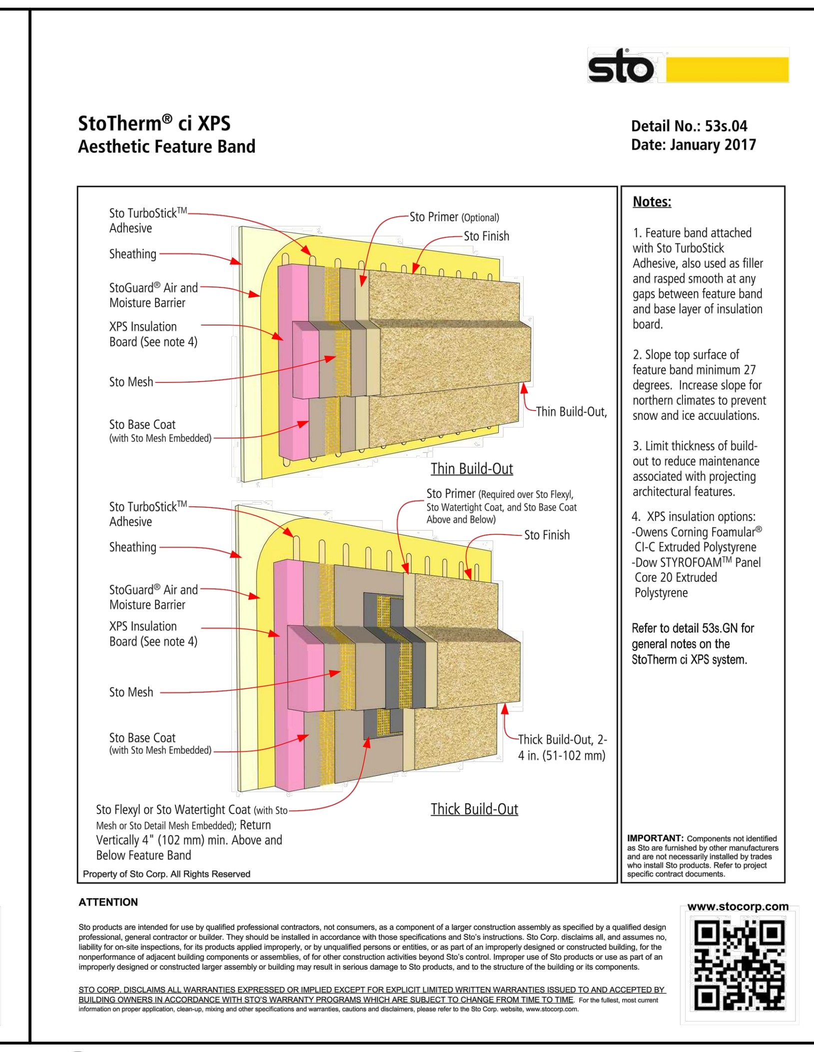

3 ACCENT BAND
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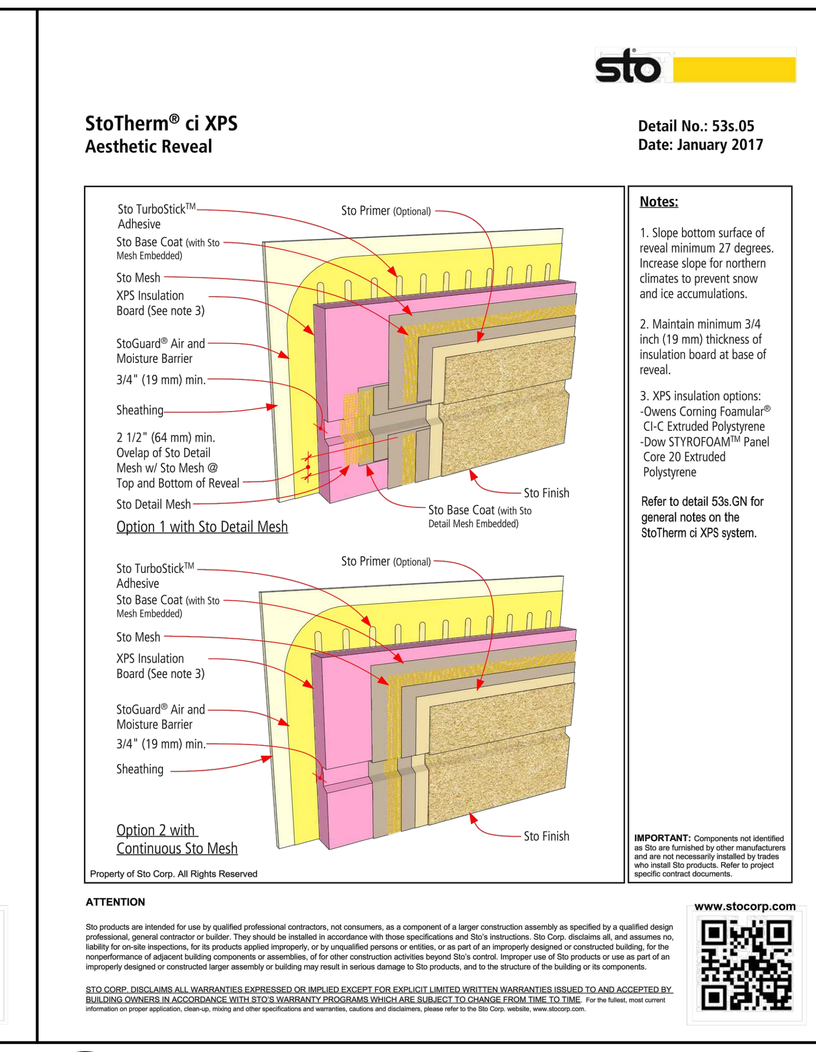

4 ACCENT REVEAL
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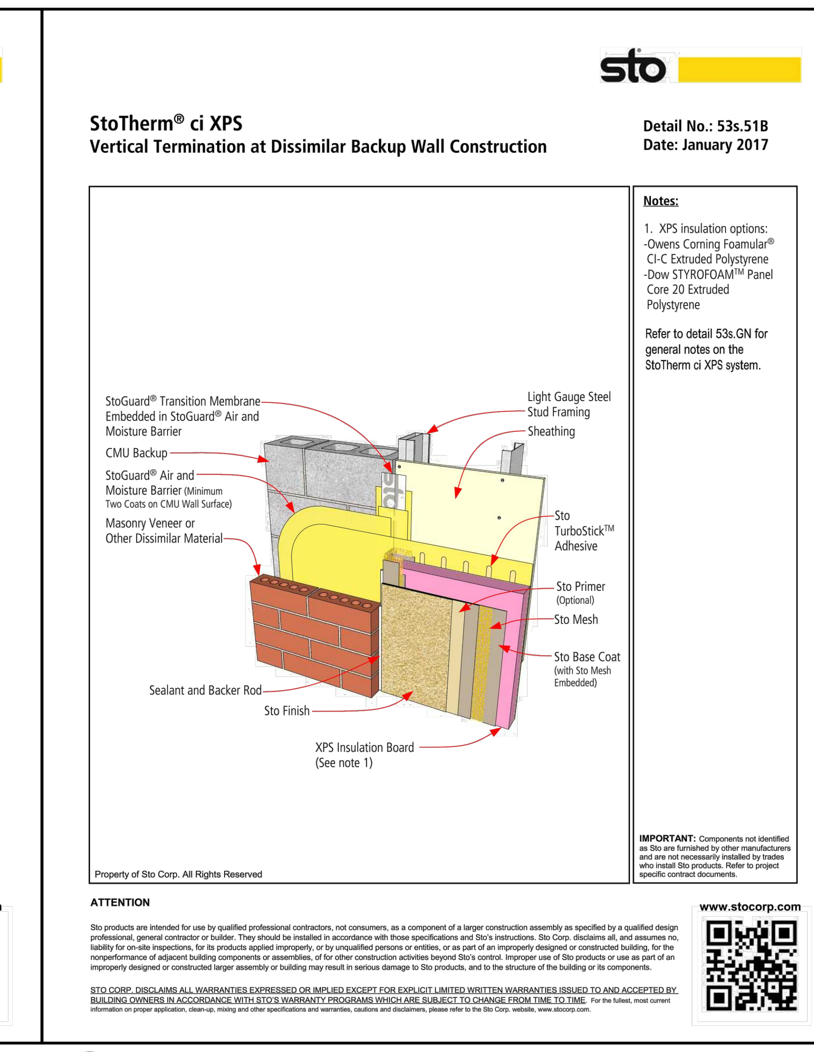

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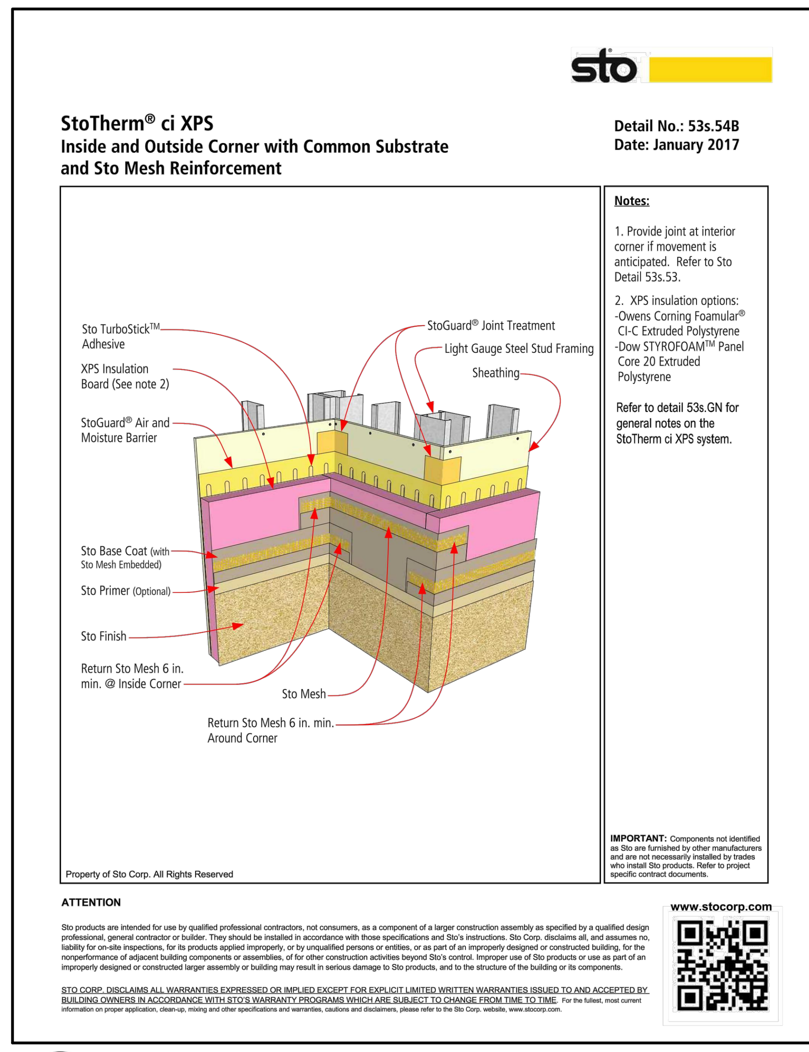

6 INSIDE/OUTSIDE CORNER
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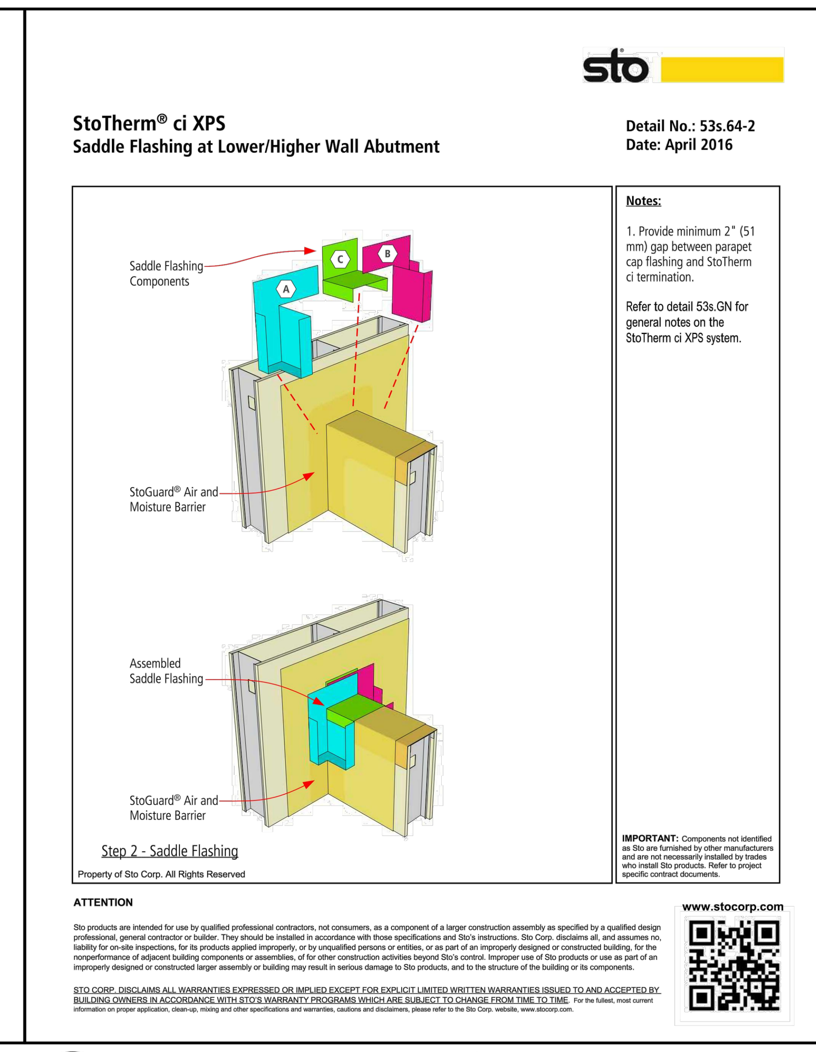

7 SADDLE FLASHING STEP 2
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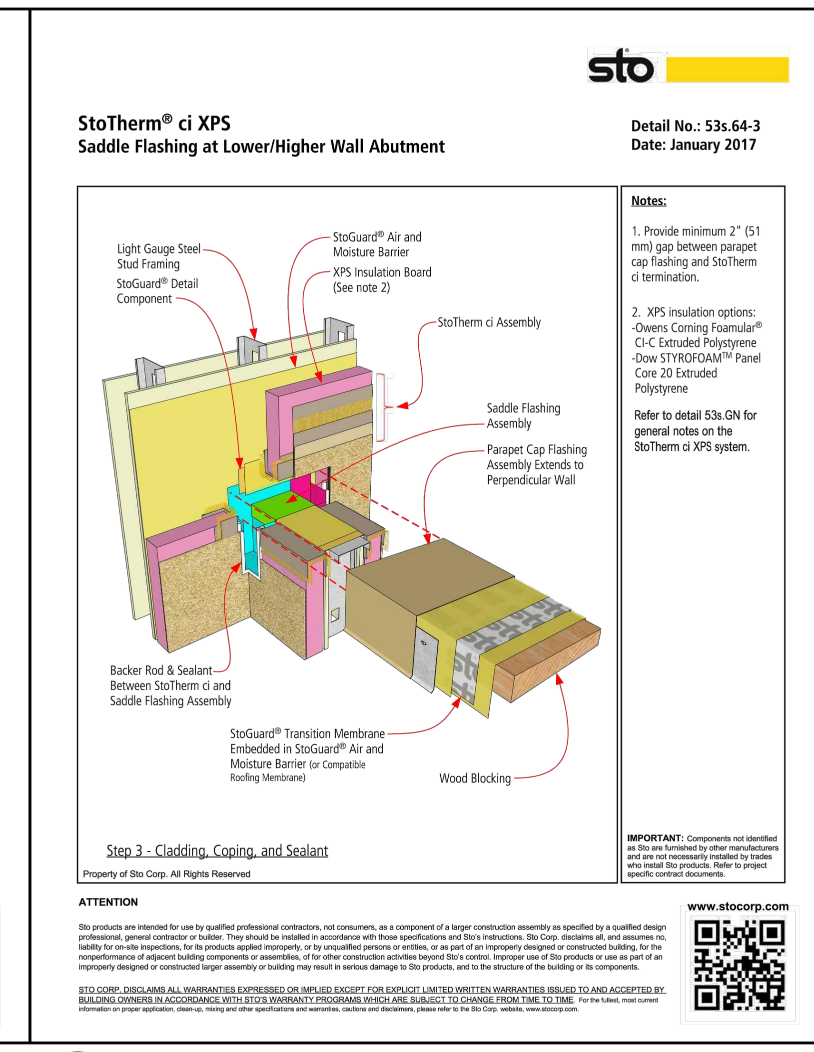

8 SADDLE FLASHING STEP 3
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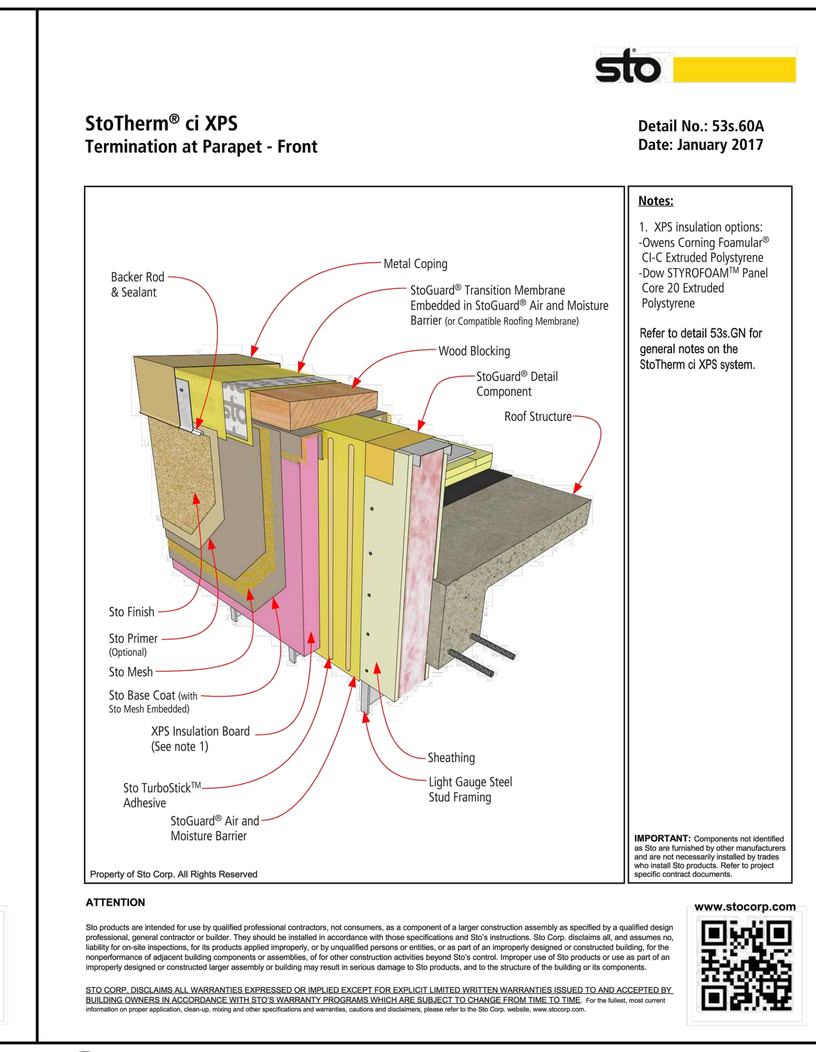

9 PARAPET CAP
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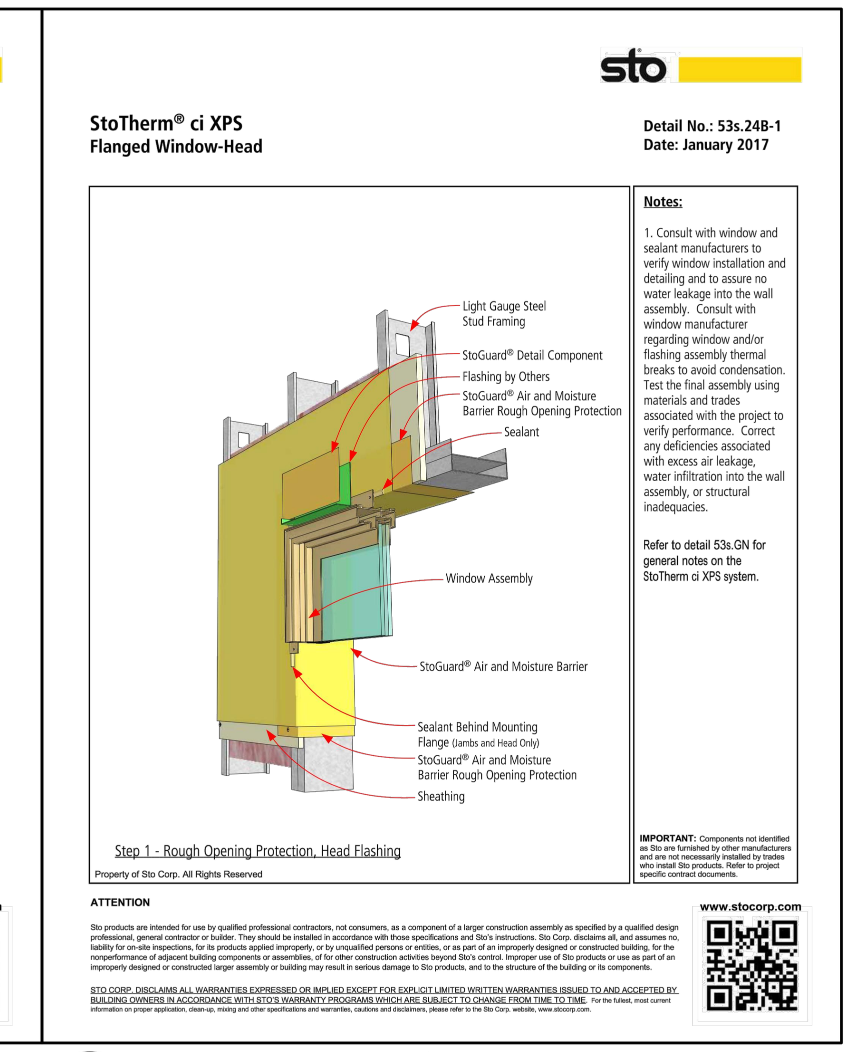

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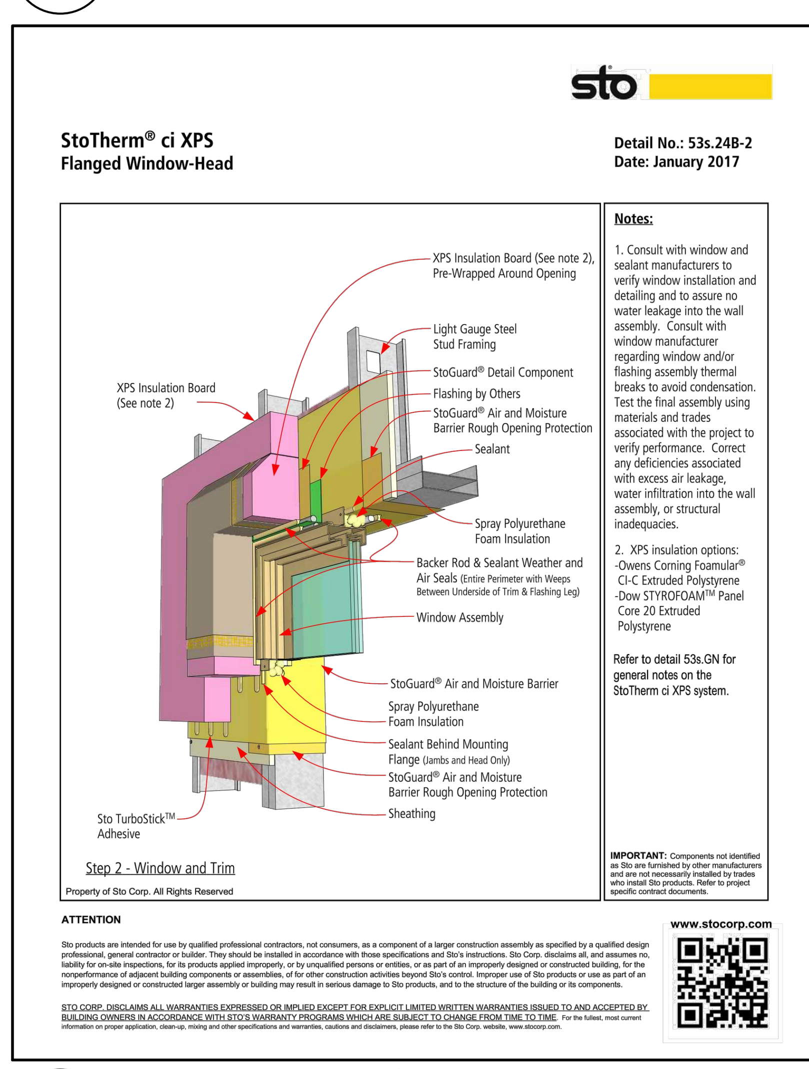

11 FLANGED HEAD STEP 2
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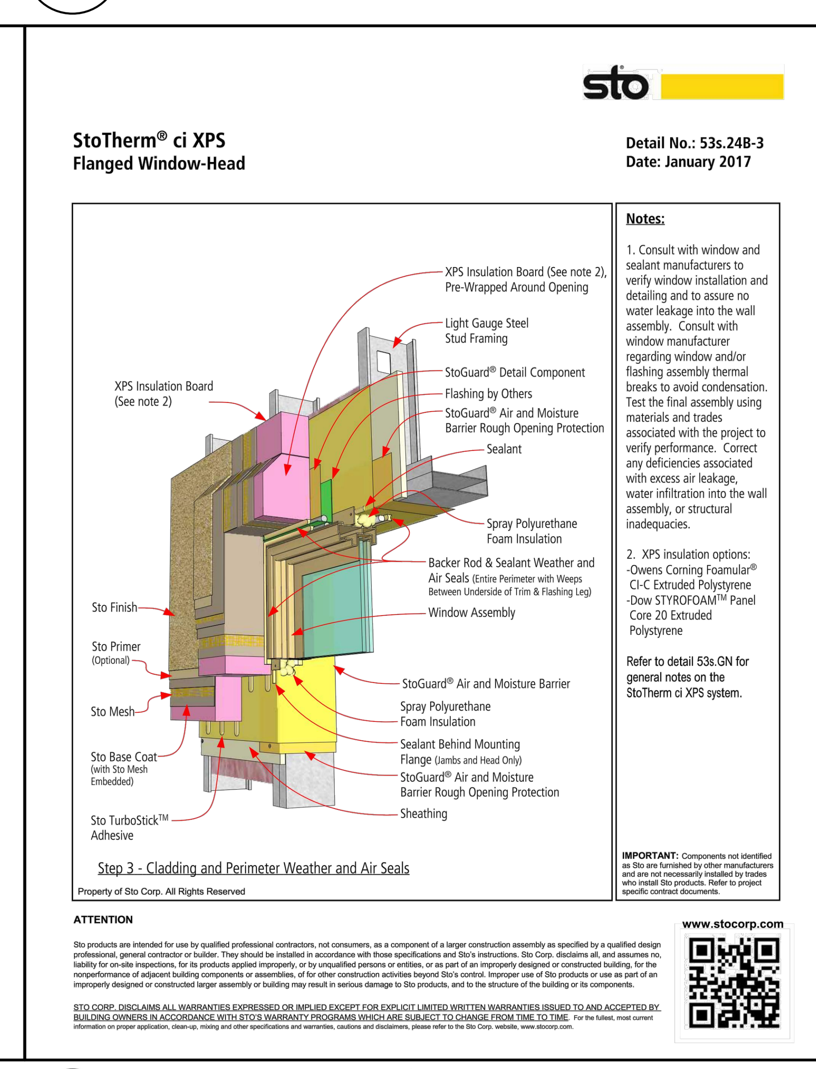

12 FLANGED HEAD STEP 3
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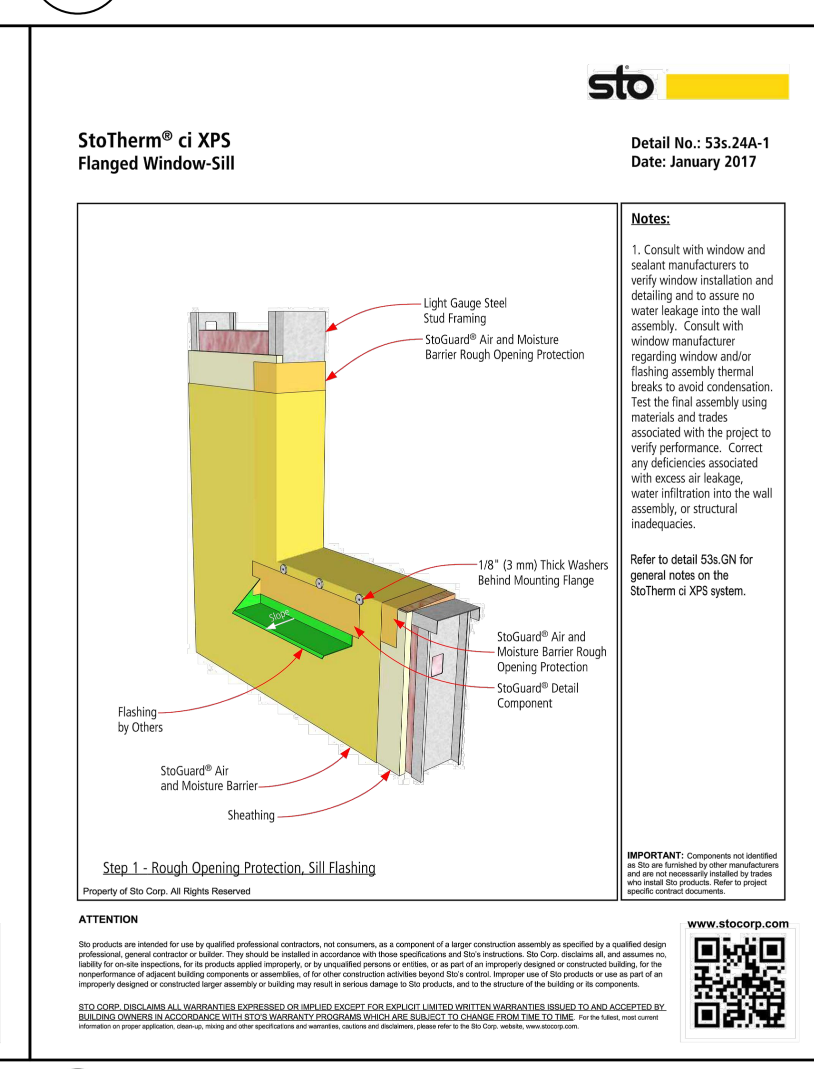

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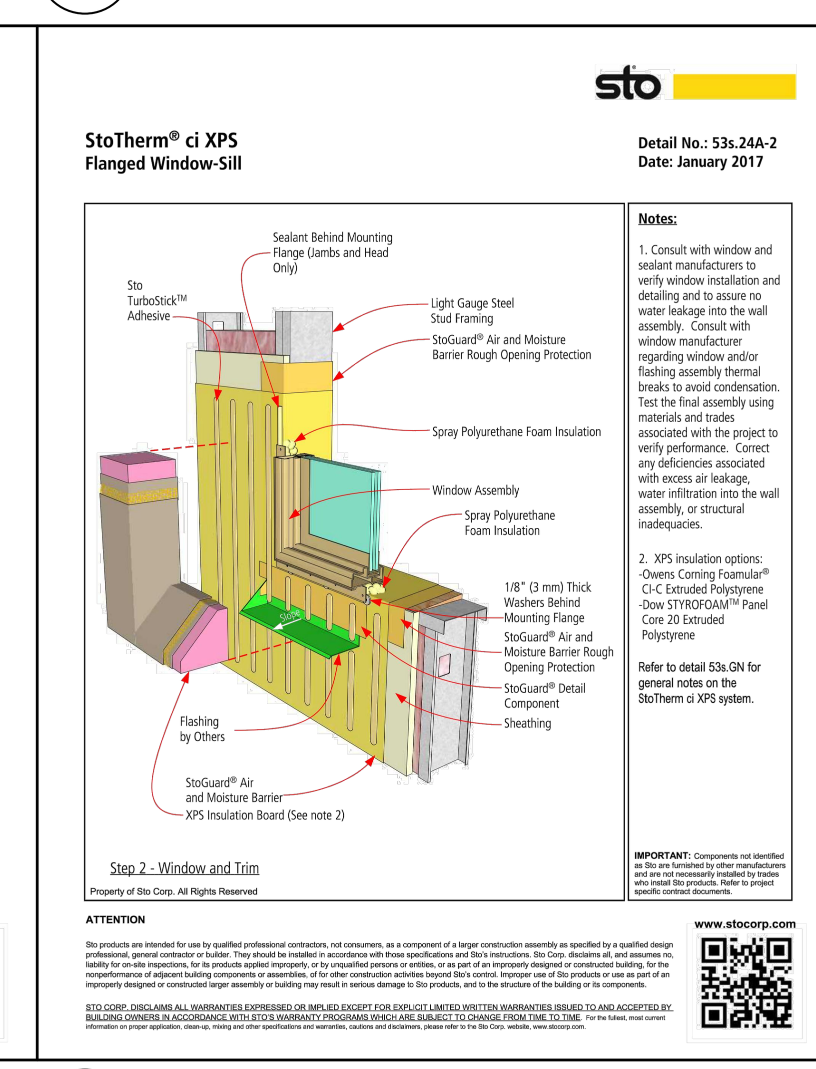

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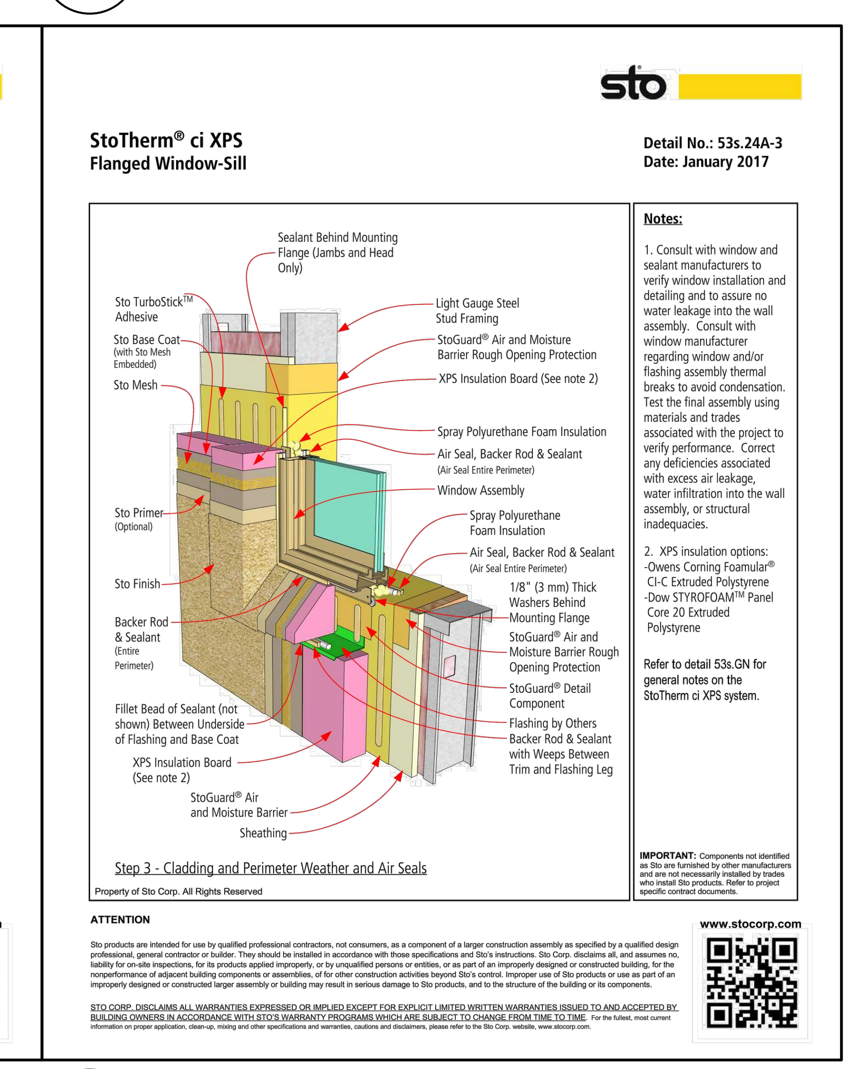

15 FLANGED SILL STEP 3
SCALE: N.T.S.

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USED CAR BUILDING RENOVATIONS
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PROGRESS SET 2-22-2021

PROJECT NUMBER:
20034.00

STO THERM CI XPS DETAILS

A3.1

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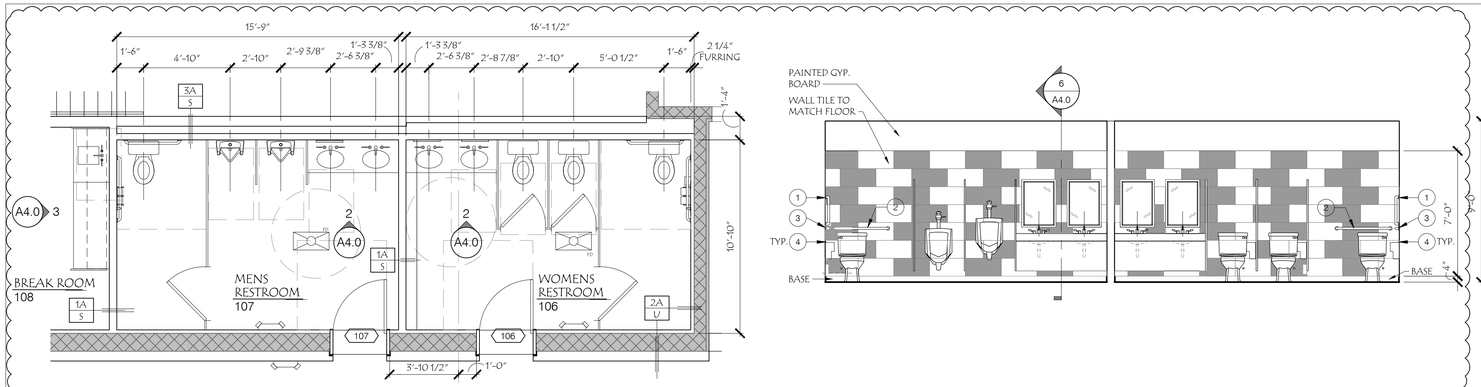

1 BATHROOM PLANS
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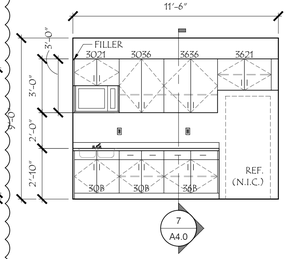
2 BATHROOM ELEVATION
SCALE: 1/4"=1'-0"



3 BREAKROOM ELEVATION
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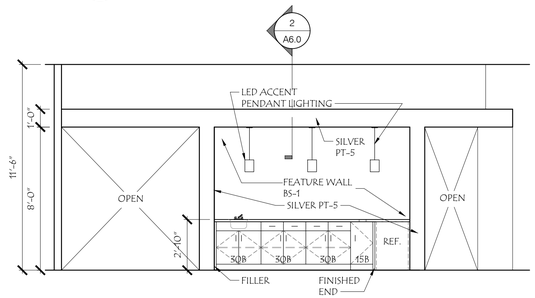

4 COFFEE BAR ELEVATION
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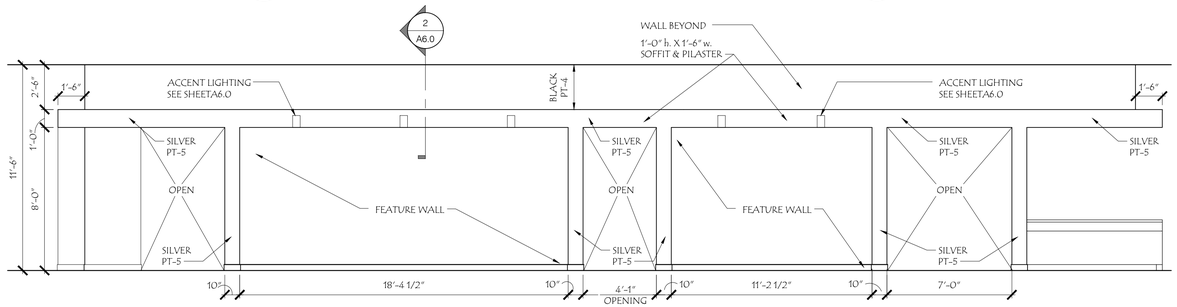

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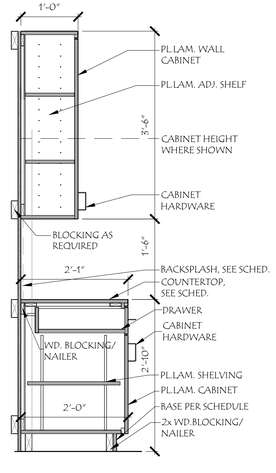

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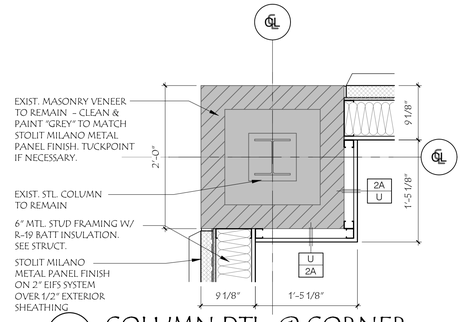

9 COLUMN DTL. @ CORNER
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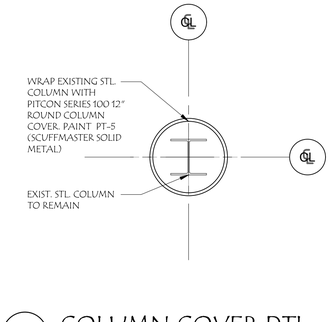
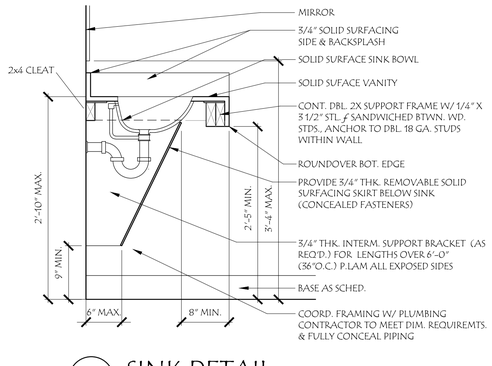
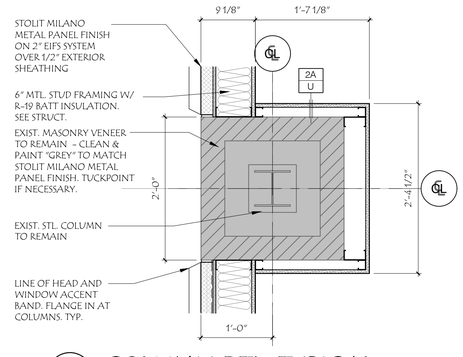


10 COLUMN COVER DTL.
SCALE: 1"=1'-0"



6 SINK DETAIL
SCALE: 1/2"=1'-0"



8 COLUMN DTL. TYPICAL
SCALE: 1"=1'-0"

ACCESSORIES LEGEND

1	18" ADA GRAB BAR	BOBRICK WASHROOM EQUIP. CO. B-5806.99 x 18 PEENED FINISH
2	36" ADA GRAB BAR	BOBRICK WASHROOM EQUIP. CO. B-5806.99 x 36 PEENED FINISH
3	42" ADA GRAB BAR	BOBRICK WASHROOM EQUIP. CO. B-5806.99 x 42 PEENED FINISH
4	SURFACE MOUNTED TOILET PAPER DISPENSER	BOBRICK B-2888 STAINLESS STEEL
5	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK B-270 STAINLESS STEEL
6	MIRROR	BOBRICK B-290-2436 STAINLESS STEEL
7	AUTOMATIC LIQUID SOAP DISPENSER	BOBRICK B-2012 STAINLESS STEEL
8	LAVATORY DRAIN PIPE COVERS	IPS CORPORATION TRUEBRO WHITE
9	RECESSED PAPER TOWEL DISPENSER & WASTE RECPT.	BOBRICK B-3944 STAINLESS STEEL
10	METAL TOILET PARTITION W/ FLOOR SUPPORTS, O/H BRACED & BAKED ENAMEL.	ACCURATE GRAY 990
11	HORIZONTAL BABY CHANGING TABLE	KOALA KARE KB200 COLOR T.B.D.
12	WASTE RECEPTACLE	WASTE RECEPTACLE
13	MOP AND BROOM HOLDER	BOBRICK WASHROOM EQUIP. CO. B-223 x 36, SATIN

PLUMB. FIXTURES & ACCESSORY NOTES

A. CONTRACTOR SHALL PROVIDE ACCESSORIES AND PLUMBING FIXTURE INDICATED ON THIS SHEET AND THROUGHOUT PROJECT. SEE LOCATIONS OF DEVICES ON A0.0 FOR ADDITIONAL MOUNTING HEIGHTS FOR TOILET ACCESSORIES. VERIFY ALL ADA MOUNTING HEIGHTS WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS. PROVIDE FIRE TREATED WOOD BLOCKING IN WALL BEHIND ACCESSORIES.

B. SET ALL FLOOR DRAINS TO AN ELEVATION FOR POSITIVE DRAINAGE FOR THE ENTIRE SPACE THE DRAIN SERVES. THE FINISHED FLOOR SLOPE SHALL BE 1/8" PER FOOT MINIMUM TO THE FLOOR DRAINS. FINISH TO BE SILVER.

C. ALL PLUMBING FIXTURES TO BE FULLY ACCESSIBLE.

PLUMBING FIXTURE LEGEND

UR-1	URINAL	AM. STANDARD #6561.017 "OPTIMA PLUS" #8186-1.0 FLUSH VALVE WALL HUNG, CARRIER MOUNTED
WC-1	ADA TOILET	AM. STANDARD, FLOOR MOUNTED REAR OUTLET; SIM TO #3043.102, MANDERA, WHITE, ELONGATED 17" H BOWL. SLOAN "OPTIMA PLUS" #811 BATTERY POWERED FLUSH VALVE W/ SCREWDRIVER STOP VALVE & WALL ESCUTCHEON. OLSONITE #95CC/SS-AM SEAT, OPEN FRONTLESS COVER WITH CONCEALED CHECK HINGES AND ANTI-MICROBIAL AGENT.
WC-2	TOILET	AM. STANDARD, FLOOR MOUNTED REAR OUTLET; SIM TO #2234.015, MANDERA, WHITE, ELONGATED 17" H BOWL. SLOAN "OPTIMA PLUS" #811 BATTERY POWERED FLUSH VALVE W/ SCREWDRIVER STOP VALVE & WALL ESCUTCHEON. OLSONITE #95CC/SS-AM SEAT, OPEN FRONTLESS COVER WITH CONCEALED CHECK HINGES AND ANTI-MICROBIAL AGENT.
LAV-1	WALL MOUNTED LAVATORY	AM. STANDARD #0355.012, W/ WALL HANGER CHICAGO HYTRONIC #116.212.AB.1 FAUCET SOAP DISP. MOUNTED IN EXTRA HOLE
LAV-2	UNDERMOUNT LAVATORY	AM. STANDARD #0496.300.020 OR EQUAL MOEN 55170 HIGH ARC PREP FAUCET SOAP DISP. MOUNTED IN COUNTER
LAV-3	UNDERMOUNT LAVATORY	AM. STANDARD #0426.000.020 OR EQUAL MOEN 55170 HIGH ARC PREP FAUCET
MS-1	24" x 24" MOP SINK	FIAT PRODUCTS #MSB-2424 OR EQUAL STANDARD #8344.11 OR EQUAL FAUCET

LOCATION OF DEVICES

LAYOUT: CONTRACTOR SHALL TAKE SPECIAL CARE IN THE LAYOUT OF HIS WORK & IN VERIFICATION OF ANY EXISTING CONDITIONS & DIMENSIONS. THE COORDINATION & ALIGNMENT OF THIS WORK WITH ITSELF & ADJACENT WORK IS OF PRIMARY IMPORTANCE & SHOULD TAKE PRECEDENCE OVER WRITTEN DIMENSIONS, ESPECIALLY APPROXIMATE DIMENSIONS. THE INSTALLING CONTRACTOR SHALL LAYOUT HIS WORK & VERIFY TO INSURE PROPER ALIGNMENT & FIT. HE WILL REPORT ANY DISCREPANCIES TO THE PROJECT SUPERINTENDENT AND ARCHITECT.

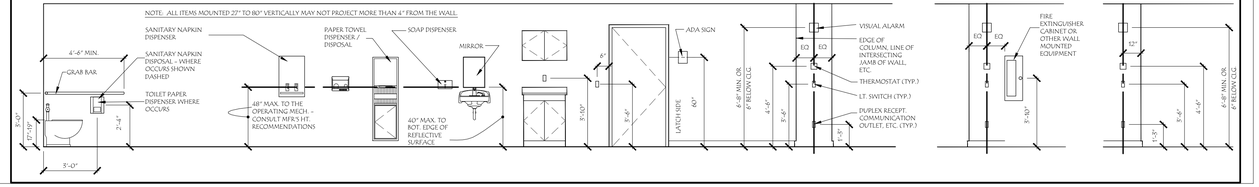
LOCATION OF THERMOSTATS, ELECTRICAL, LIGHTING, LIFE SAFETY DEVICES, ETC. :

1) DEVICES INSTALLED BY SEPARATE TRADES (SUCH AS LIGHT SWITCHES, THERMOSTATS, ETC.) INSTALLED IN THE SAME LOCATION, SHALL BE MOUNTED IN A CONFIGURATION ACCEPTABLE TO THE ARCHITECT.

A. DEVICES SHALL BE UNIFORMLY MOUNTED SO THEY WILL BE SYMMETRICAL, WHEN SHOWN ON THE MECHANICAL & ELECTRICAL DRAWINGS & NOT ON THE ARCHITECTURAL DRAWINGS. VERTICALLY ALIGN DEVICES MOUNTED AT DIFFERENT HEIGHTS UNLESS SEPARATED HORIZONTALLY BY 24".

B. DEVICES INSTALLED IN MASONRY OR INSTALLED IN / MOUNTED TO SURFACES TO RECEIVE WOOD PANELS, WALL COVERING, OR SIMILAR MATERIALS SHALL BE INSPECTED BY THE ARCHITECT / ENGINEER PRIOR TO ROUGHING-IN.

2) WHEN IN DOUBT, CHECK WITH THE ARCHITECT / ENGINEER PRIOR TO ROUGH-IN. ALL COSTS TO CORRECT DEVIATIONS FROM THESE PRINCIPLES WILL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.



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REGISTERED ARCHITECT
STATE OF MISSOURI
04.15.21

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Dave Sinclair Buick - GMC
BUICK | GMC

PERMIT SET	2-22-2021
1 COUNTY MEP REVIEW	04/12/2021

PROJECT NUMBER:
20034.00

ENLARGED FLOOR PLANS

A4.0

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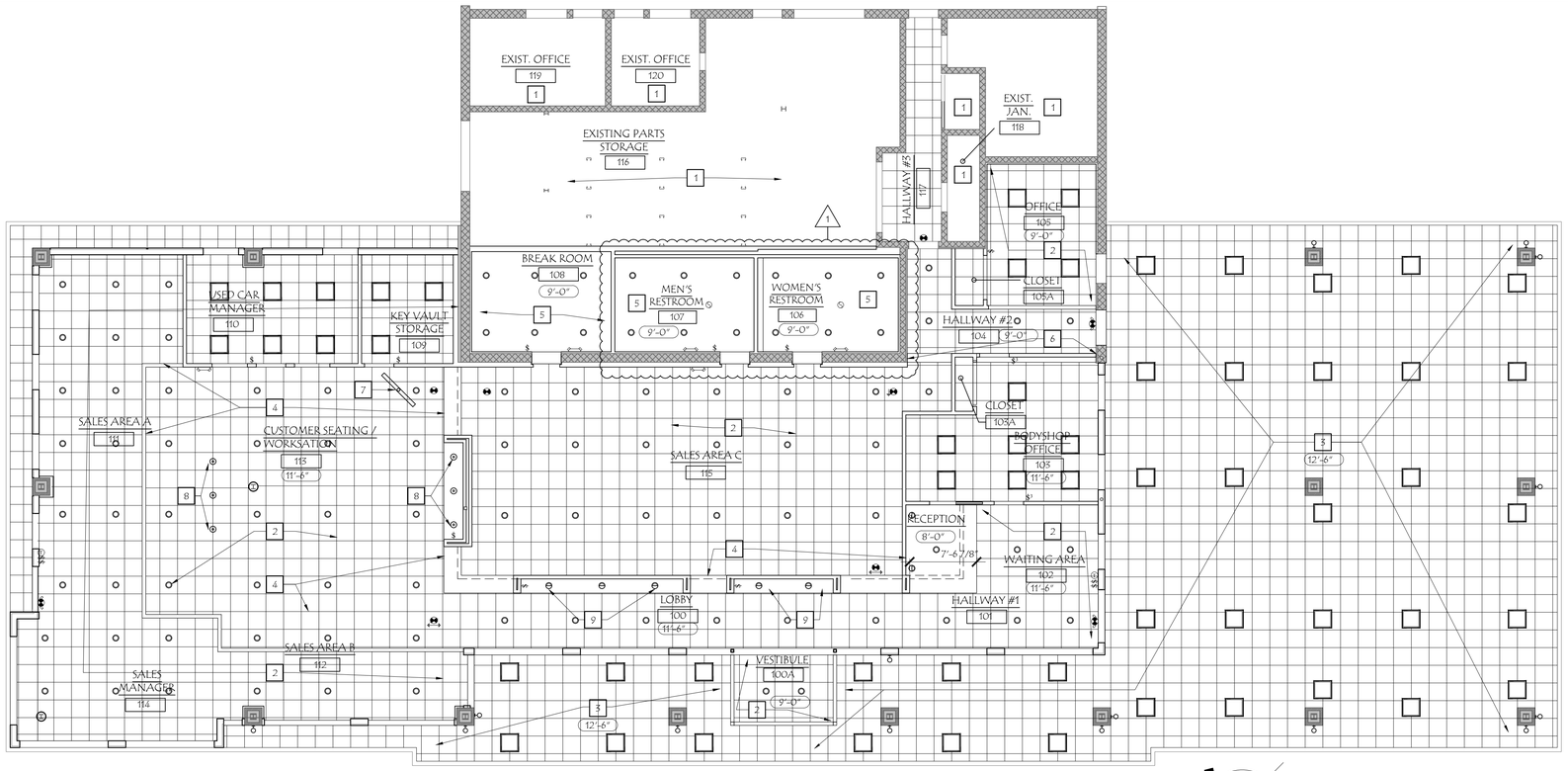
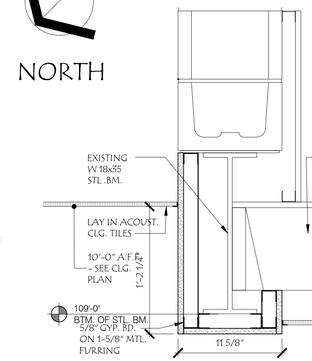


1 REFLECTED CEILNG PLAN
1/8"=1'-0"

NORTH



4 GYP. BD, SOFFIT DTL. @ BEAM
1-1/2"=1'-0"

GENERAL RCP NOTES:

A. LIGHT FIXTURES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN ARE FOR REFERENCE/DESIRED LOCATION ONLY. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION REGARDING FIXTURE TYPES, ELECTRICAL REQUIREMENTS, ETC.

B. CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND VERIFY ALL CONDITIONS, MATERIALS, AND DIMENSIONS WHICH WILL AFFECT THE WORK.

C. REVIEW FINAL LOCATIONS OF CEILING AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

D. GENERAL CONTRACTOR TO PROVIDE CONTROL JOINTS IN ALL GYPSUM BOARD CEILING BASED ON USG STANDARDS AND RECOMMENDATION.

E. COORDINATE ALL DEVICE LOCATIONS WITH EXISTING CONDITIONS AND WITH PROJECT DESIGN INTENT - CLARIFY INTENT WITH THE OWNER. ALL LIFE SAFETY DEVICE LOCATIONS ARE TO BE REVIEWED WITH OWNER FOR DESIGN INTENT, BUT FINAL LOCATIONS ARE TO BE COORDINATED WITH INSPECTOR OR OTHER AUTHORITIES HAVING JURISDICTION.

F. ALL CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR TO UNDERSIDE OF FINISH CEILING OR LIGHT FIXTURE, U.N.O.

G. PROVIDE LATERAL BRACING FOR SUSPENDED CEILING SYSTEMS AND ADDITIONAL HANGERS AND SAFETY WIRES FOR LIGHT FIXTURES, DUCTWORK, SPEAKERS, ETC. SEE TYPICAL BRACING DETAILS FOR MORE INFORMATION.

H. ARCHITECTURAL DRAWINGS DETERMINE THE LOCATION OF LIGHTING FIXTURES. LIGHTING FIXTURE LOCATIONS SUPERSEDE ALL OTHER SYSTEMS., TYP.

I. REFER TO DESIGN / BUILD MECHANICAL DRAWINGS FOR ANY NEW MECHANICAL EQUIPMENT OR NEW DUCTWORK DISTRIBUTION SYSTEM.

J. PROVIDE BLOCKING AND BRACING REQUIRED FOR FIXTURE INSTALLATION AND ALL ELECTRICAL COMPONENTS.

K. COORDINATE ANY NEW ROOF PENETRATIONS WITH THE EXISTING ROOF STRUCTURE. SEE STRUCT. FOR ANY REQUIRED MODIFCATIONS.

L. PROVIDE ACCESS PANELS FOR PLUMBING, ELECTRICAL, ETC. AS REQUIRED TO ACCESS EQUIPMENT OR CONTROLS; COORDINATE WITH OWNER. LOCATIONS TO BE APPROVED BY ARCHITECT PRIOR INSTALL. ALL ACCESS PANELS SHALL BE FLUSH W/ CEILING & SHALL BE PAINTED TO MATCH SURROUNDING MATERIAL COLOR TYP.

M. GYPSUM BOARD CEILING FRAMING MEMBERS MAY BE MODIFIED AT DIFFUSERS TO ACCOMMODATE REQUIRED ROUGH OPENING FOR HVAC DIFFUSERS. ALL OTHER FRAMING TO ACCOMMODATE PROPOSED LIGHTING LAYOUT.

REFLECTED CEILING PLAN LEGEND

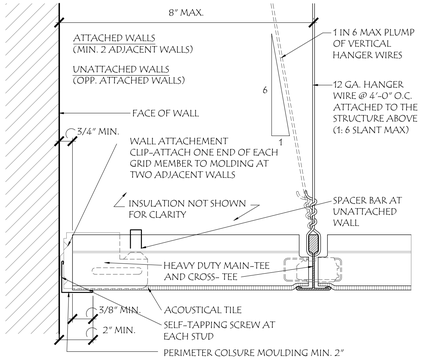
- LED CAN LIGHT
- LED CAN LIGHT W/ WALL WASHING GIMBAL TRIM
- LED CEILING MOUNTED LIGHT FIXTURE
- LED EXTERIOR GRADE WALL MOUNTED SCONCE
- LED PENDANT FIXTURE
- LED SPOT FIXTURE
- LED SPOT & TRACK
- EXIT SIGN
- EXIT SIGN W/ DIR. ARROW
- EXIT SIGN W/ EMERGENCY LIGHT
- EMERGENCY LIGHT W/BATTERY BACKUP
- STRIP LIGHT FIXTURE
- 2x4 LIGHT FIXTURE - LED LAMPING
- 2x2 LIGHT FIXTURE - LED LAMPING
- EXHAUST FAN - DIRECT TO EXTERIOR.
- HD HEAT DETECTOR - MATCH EXIST
- SP SPEAKER - BY OWNER VENDOR

NOTE: ALL SYMBOLS ARE SHOWN FOR CLARITY & COORDINATION - SEE MECHANICAL, PLUMBING & ELECTRICAL SHEETS FOR EXACT LOCATIONS OF M.P.E. EQUIP & FIXTURES.
'E' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS EXISTING TO REMAIN
'N' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS NEW.
'R' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE IS RELOCATED.
'#' SHOWN NEXT TO A SYMBOL INDICATES THAT THE FIXTURE'S HEIGHT A.F.F.
ALL HEIGHTS ARE CENTERLINE OF FIXTURE.

X KEYED REFLECTED CEILING PLAN NOTES

1. EXISTING CONDITIONS TO REMAIN - NO WORK.
2. NEW ACOUSTICAL CEILING - ARMSTRONG ULTIMA 1912 BEVELED TEGULAR W 9/16" GRID. INCLUDE LED RECESSED CAN LIGHT FIXTURES OR 2x2 LIGHT FIXTURES AS INDICATED ON THE PLAN.
3. NEW SUSPENDED ACOUSTICAL CEILING - REPLACE ALL PADS WITH EXTERIOR GRADE ARMSTRONG ULTIMA 1912 BEVELED TEGULAR. INCLUDE NEW LED 2x2 EXTERIOR GRADE LIGHT FIXTURES.
4. NEW 5/8" GYP. BD. SOFFIT ON MTL. FRAMING - SUSPEND & BRACE TO CEILING ABOVE. SEE DETAIL 2/A6.0 & 3/A6.0
5. GYP. BD. CEILING WITH RECESSED LED CAN LIGHTS, INCLUDE EXHAUST FAN SYSTEM - VENT TO EXTERIOR.
6. NEW 5/8" GYP. BD. SOFFIT AROUND EXISTING W18x35 STL. BEAM - SEE DETAIL 4/A6.0
7. PROVIDE POWER & DATA & CEILING POLE MOUNT FOR OWNER SUPPLIED SMART TV. - COORDINATE WITH OWNER FOR EXACT REQUIREMENTS.
8. PROVIDE LED LOW VOLTAGE ACCENT PENDANT LIGHTING AT COFFEE BAR & FREE STANDING BAR HEIGHT TABLE.
9. PROVIDE LED LOW VOLTAGE WALL WASHER / ACCENT LIGHTING AT FEATURE WALL.
10. PLAN NOT SHOWN SEE SHEET A2.1: PROVIDE 24-HOUR COOLING SYSTEM ON SEPARATE THERMOSTAT AT IT/DATA CLOSET PM MEZZ/2ND FLOOR. - COORDINATE REQUIREMENT WITH SERVER / & OWNER / IT DEPARTMENT

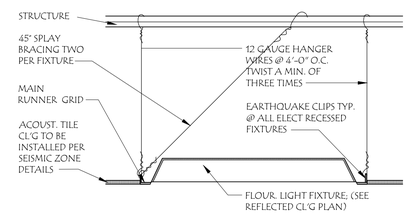
ELECTRICAL IS DESIGN / BUILD. THIS LIGHTING PLAN IS FOR DESIGN INTENT ONLY. VERIFY EXACT ELEC. LOADS, LOCATIONS & REQUIREMENTS OF ALL LIGHTING / POWER, DATA, AND HEIGHTS WITH OWNER PRIOR TO INSTALLATION.



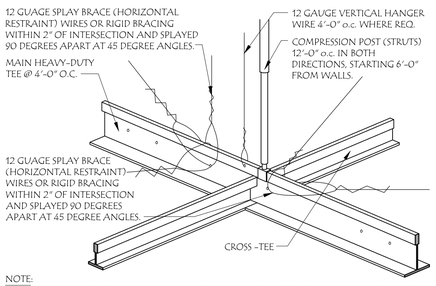
INSTALLATION NOTES PER SEISMIC DESIGN CATEGORY 'D':

1. ALL BRACING WIRE TO BE ATTACHED PARALLEL TO THE COMPONENT AND AT MAX. OF 45° TO THE PLANE OF THE CEILING.
2. ALL BRACING WIRE TO BE TAUT AND TIED BOTH ENDS WITH A MINIMUM OF 3 TURNS.
3. SECURE ALL WIRES TO STRUCTURE ABOVE.
4. RING NAILS SHALL BE INSTALLED AT ALL COMPONENT INTERSECTIONS WITH THE HORIZONTAL STRUT AT UNATTACHED WALLS.
5. THE HORIZONTAL SPACER BAR SHALL RUN CONTINUOS AT LL PERIMETERS NOT ATTACHED TO THE WALL ANGLE.
6. INSTALLATION MUST CONFORM TO CISCA RECOMMENDATIONS.
7. MIN. HEAVY DUTY GRID SYSTEM.
8. SEE CEILING SYSTEM SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
9. WHERE WIRE MUST BEAR AGAINST PIPES AND DUCTS, APPLY TAPE TO PIPES AND DUCTS.
10. GENERAL CONTRACTOR TO SEISMICALLY BRACE LIGHT FIXTURES, DIFFUSERS, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.

4 ACT CLG @ WALL DETAIL
3"=1'-0"

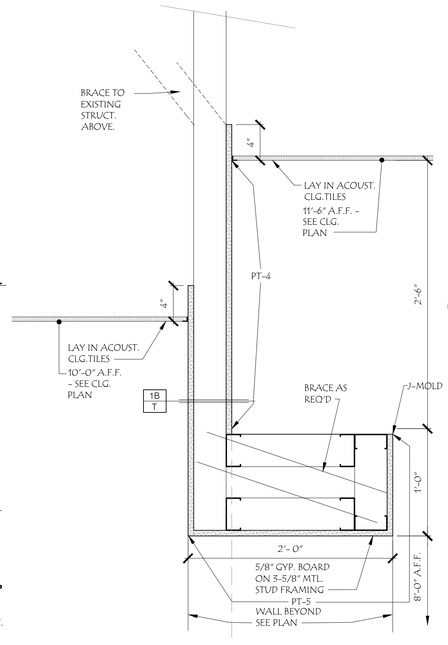


5 ACT CLG LIGHT FIXT BRACE DTL
1-1/2"=1'-0"

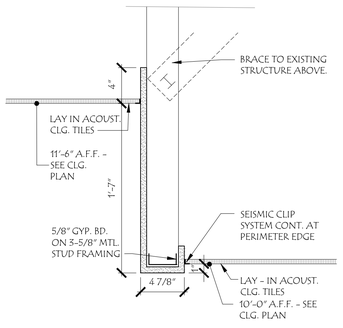


NOTE:
1. CAT. D, E, F REFERS TO CISCA INSTALL RECOMMENDATIONS FOR ZONES 3-4 VIA ASCE 7-02.
2. COMPRESSION POSTS OR HORIZONTAL RESTRAINT IS REQ'D FOR CLGS LARGER THAN 1,000 SF.
3. PARTITIONS MUST BE ATTACHED WITH BRACING INDEPENDENT OF CEILING SPLAY BRACING.
4. SEISMIC SEPARATION JOINT REQUIRED FOR AREAS GREATER THAN 2,500 SF.
5. RIGID BRACING REQUIRED FOR CEILING PLANE ELEVATION CHANGES.

6 ACT CLG SEISMIC BRACING DTL
1-1/2"=1'-0"



2 GYP. BD, SOFFIT DTL.
1-1/2"=1'-0"



3 GYP. BD, SOFFIT DTL.
1-1/2"=1'-0"

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04.13.21

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Dave Sinclair Buick - GMC
BUICK | GMC

PERMIT SET	2-22-2021
COUNTY MEP REVIEW	04/12/2021

PROJECT NUMBER:
20034.00

REFLECTED CEILING PLAN

A6.0

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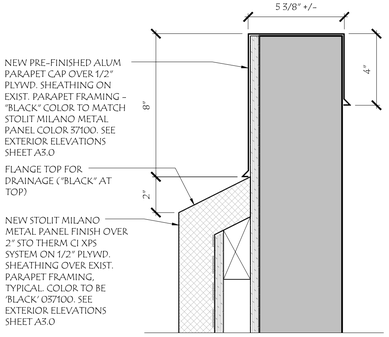
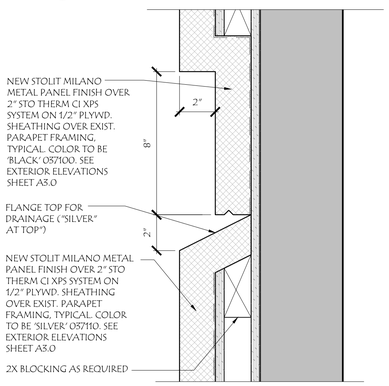


3 DTL.@ PARAPET CAP
SCALE: 3"=1'-0"



4 DTL.@ REVEAL
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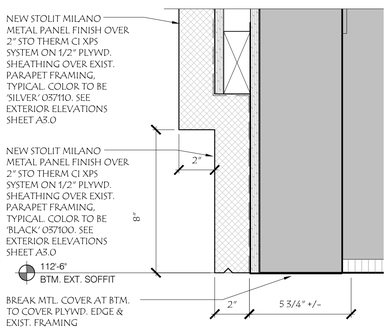

5 DTL.@ PARAPET BTM
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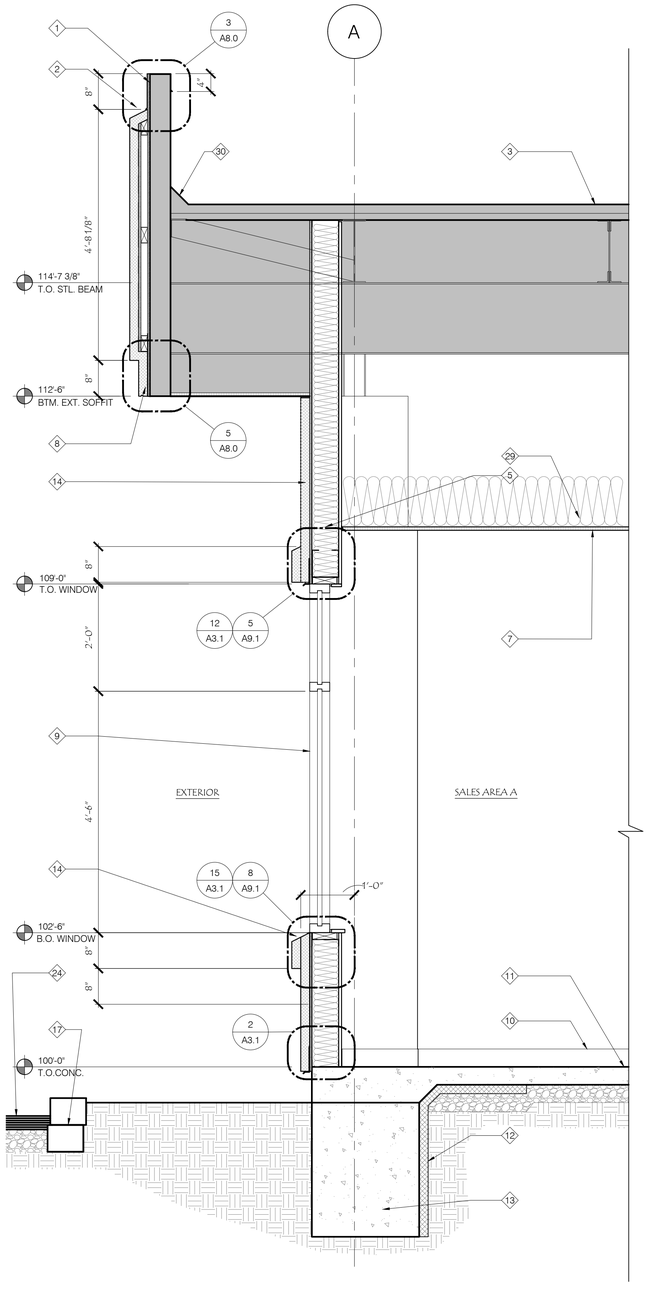
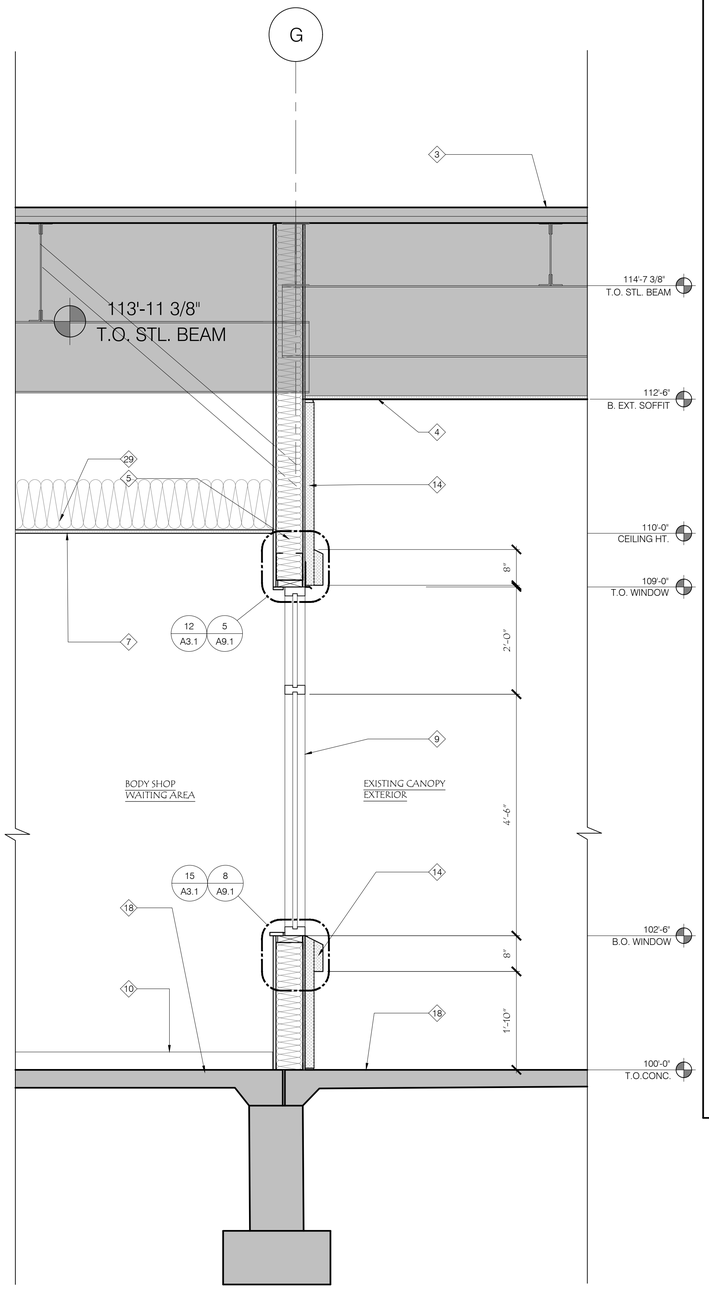


1 WALL SECTION @ NEW FOUNDATION
SCALE: 3/4"=1'-0"



2 WALL SECTION @ EXIST. FOUNDATION
SCALE: 3/4"=1'-0"

KEYED WALL SECTION NOTES

1. NEW PRE-FINISHED ALUM PARAPET CAP OVER 1/2" PLYWD. SHEATHING ON EXIST. PARAPET FRAMING - "BLACK" COLOR TO MATCH STOLIT MILANO METAL PANEL COLOR 57100. SEE EXTERIOR ELEVATIONS SHEET A3.0
2. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM (INCLUDES FLUID APPLIED VAPOR/AIR BARRIER) ON 1/2" PLYWD. SHEATHING OVER EXIST. PARAPET FRAMING, TYPICAL. COLOR TO BE 'SILVER' 057110. SEE EXTERIOR ELEVATIONS SHEET A3.0
3. EXISTING ROOFING SYSTEM AND STRUCTURE BELOW TO REMAIN AS POSSIBLE. (THE EXISTING R-VALUE OF THE ROOF IS R-20.) SEE STRUCT. DRAWINGS FOR REQUIRED UPGRADES TO THE EXISTING BUILDING.
4. NEW ACOUSTICAL CEILING GRID, PADS & LIGHTING @ EXTERIOR. BRACE AND SUSPEND FROM STRUCTURE ABOVE. SEE REFLECTED CEILING PLAN A6.0.
5. NEW HEAVY DUTY 6" MTL. GAGE STUDS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE AND 1/2" PLYWD. SHEATHING ON THE EXTERIOR SIDE. INCLUDE R-20 BATT INSULATION IN ALL STUD CAVITIES. SEE STRUCT DRAWINGS.
6. NEW HEAVY DUTY 15/8" MTL. CHANNELS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE. TYPICAL AT EXISTING CMU WALLS & BRICK COLUMNS.
7. NEW ACOUSTICAL CEILING SYSTEM, WITH PADS & RECESSED LED CAN LIGHTING. BRACE AND SUSPEND FROM STRUCTURE ABOVE. SEE REFLECTED CEILING PLAN A6.0.
8. FLANGED ACCENT BAND AT WINDOWS AND DOORS; NEW 2" STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM. COLOR "BLACK" 05700.
9. NEW ALUM. STOREFRONT WINDOW SYSTEM W/ 1" INSULATED GLASS IN CLEAR ANODIZED FRAMES.
10. 4" CERAMIC TILE BASE. TYPICAL. SEE FINISH SCHEDULE ON SHEET A9.2
11. NEW 4" CONC. SLAB ON 10 MIL V.B. OVER 4" CRUSHED AND COMPACTED STONE BASE. SEE STRUCT. SHEET S2.1 FOR FOUNDATION PLAN.
12. R-10 CONTINUOUS RIGID INSULATION @ PERIMETER. TYPICAL.
13. NEW. CONC. REINFORCED GRADE BEAM FOUNDATION - SEE STRUCT SHEET S2.1 FOR FOUNDATION PLAN & SHEET S5.1 FOR REINFORCING DETAILS.
14. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM (INCLUDES FLUID APPLIED AIR/VAPOR BARRIER) ON 1/2" PLYWOOD SHEATHING. INCLUDE REVEALS, HEADER & SILL BAND. SEE EXTERIOR ELEVATION SHEET A3.0, FOR COLOR SCHEME. 'SILVER, BLACK & GREY''.
15. NEW EXTERIOR GRAPE, WALL MOUNTED, LED ACCENT LIGHT. COLOR & FIXTURE TO BE SELECTED.
16. EXISTING COLUMN TO REMAIN. CLEAN BRICK, TUCKPOINT AS REQ'RD AND PAINT 'GREY' TO MATCH STOLIT MILANO METAL PANEL FINISH 057110.
17. NEW PLANTER; SEGMENTED RETAINING WALL, COLOR TO MATCH EXISTING. - INCLUDE NEW ASPHALT PAVING WHERE INDICATED. SEE ARCHITECTURAL SITE PLAN SEE SHEET A1.0.
18. EXISTING CONC. SLAB TO REMAIN WHERE INDICATED. SEE STRUCT.
19. PROVIDE NEW CONC. STAIR, OVER SEE STRUCT. INCLUDE GALVANIZED HANDRAILS @ EA. SIDE AND MIDDLE W/ 12" EXTENSION BEYOND TOP & BTM. RISER.
20. EXISTING ASPHALT PAVING TO REMAIN AS POSSIBLE. SEE ARCHITECTURAL SITE PLAN, SHEET A1.0. WHERE NEW IS REQUIRED INSTALL 3" ASPHALT PAVING OVER 8" WALL COMPACTED CRUSHED STONE BASE.
21. PROVIDE 12" PITTCON COLUMN COVER. COLOR TO BE SELECTED ('SILVER'). SEE DETAIL 10/A4.0
22. EXISTING CMU WALL TO REMAIN. SEE STRUCT FOR UPGRADES.
23. 3/4" PLYWD. SUBFLOOR OVER 8" 'C' CHANNELS @ 16" O.C. W/ 5/8" GYP. BD. AT UNDERSIDE FOR CEILING FINISH (FLOOR / CEILING FRAMING OVER BREAK ROOM AND TOILET ROOMS.). SEE STRUCT SHEET S4.1 FOR FRAMING PLAN.
24. 3" ASPHALT PAVING OVER 8" CRUSHED STONE BASE. - PATCH EXISTING ASPHALT WHERE REQUIRED. SEE ARCHITECTURAL SITE PLAN A1.0.
25. NEW HEAVY DUTY 6" MTL. GAGE STUDS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE FINISHED INTERIOR STORAGE SIDE. - PLUMBING CAVITY WALL. SEE PARTITION TYPES ON SHEET A9.1
26. EXISTING STORAGE SYSTEM & BAR GRATE FLOOR TO REMAIN AS POSSIBLE. ANY REQUIRED MODIFICATION WORK SHALL BE DONE BY OWNER'S VENDOR.
27. NEW WOOD STAIR W/ 2x12 STRINGER @ EA. END AND MIDDLE, (4) RISERS @ 7" EA. MAX.) INCLUDE WOOD HANDRAIL PER CODE. VERIFY DIMENSIONS IN FIELD.
28. NEW 2x WOOD GUARDRAIL @ 42" A.F.F. PER CODE.
29. R-30 INSULATION ABOVE CEILING, TYPICAL. - SEE COMCHECK FOR IECC COMPLIANCE ON SHEET A0.02
30. REPAIR ROOF CORNERS & TERMINATIONS AS DISCOVERED BY ROOFING CONTRACTOR WALK - THRU
31. NEW CONC. STAIRS. SEE STRUCT DETAIL 7/S3.1.
32. PAINT CONC. FONDATION TO MATCH STOLIT MILANO METAL PANEL FINISH "SILVER" 57110.
33. NEW GALVANIZED HANDRAIL. AT VESTIBULE LANDING & STAIRS

BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
STATE OF MISSOURI
02.22.21

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ST. LOUIS, MO, 63123

Dave Sinclair Buick - GMC
BUICK | GMC

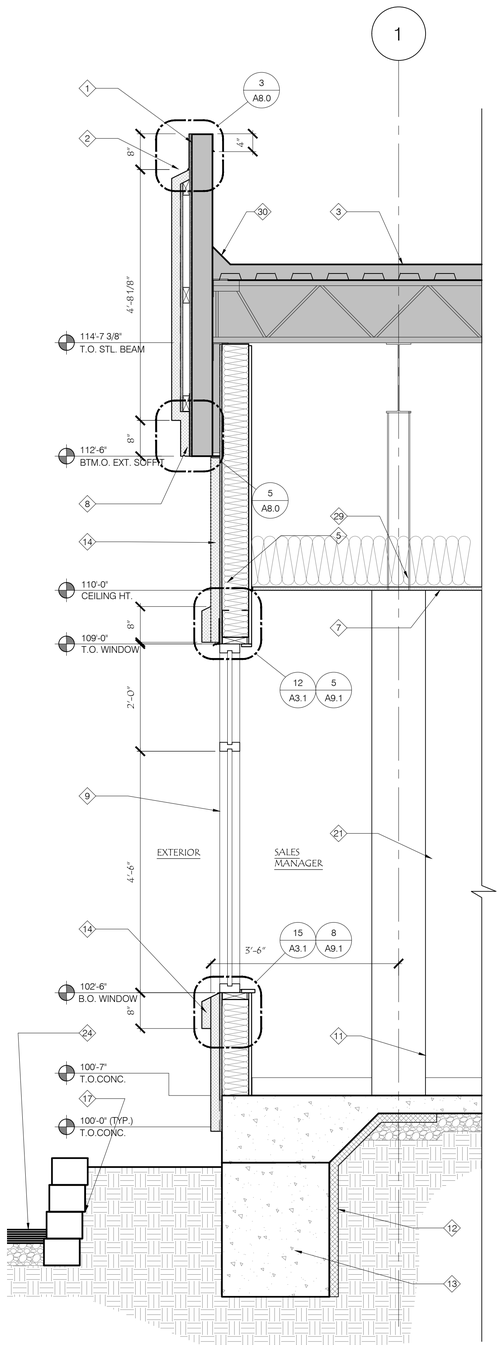
2-22-2021
PERMIT SET

PROJECT NUMBER:
20034.00

WALL SECTIONS & DETAILS

A8.0

4/13/2021 4:47 PM



3 WALL SECTION SALES MANAGER
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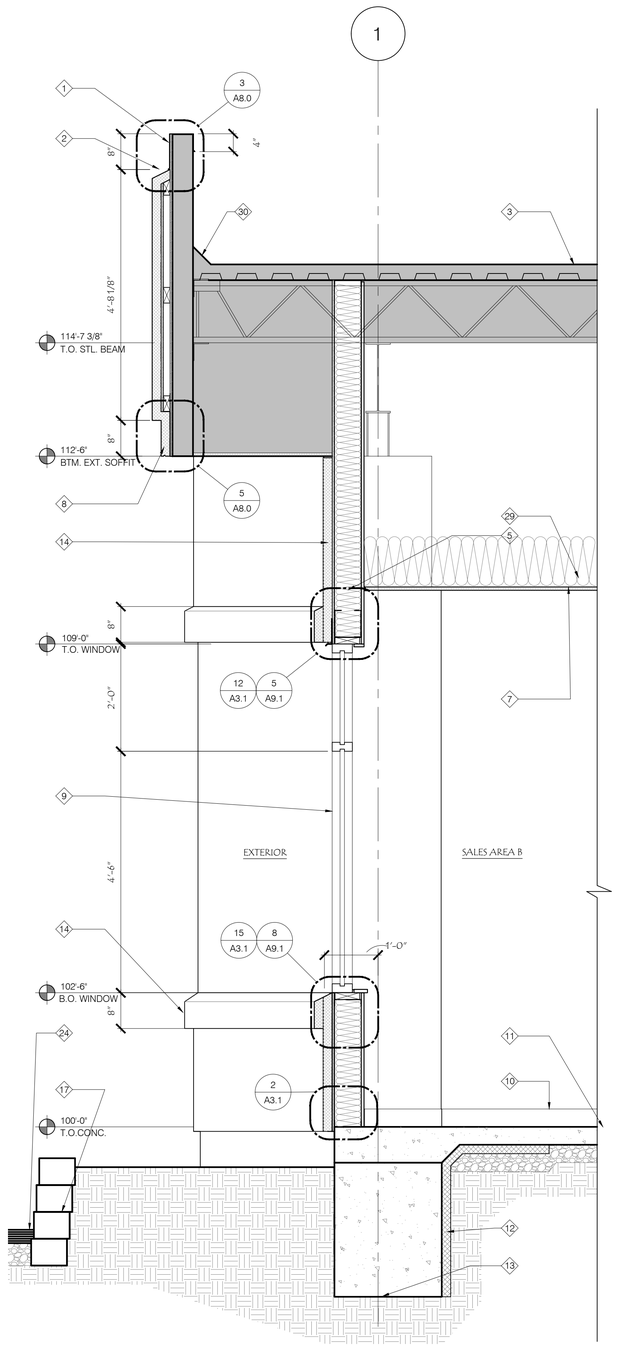

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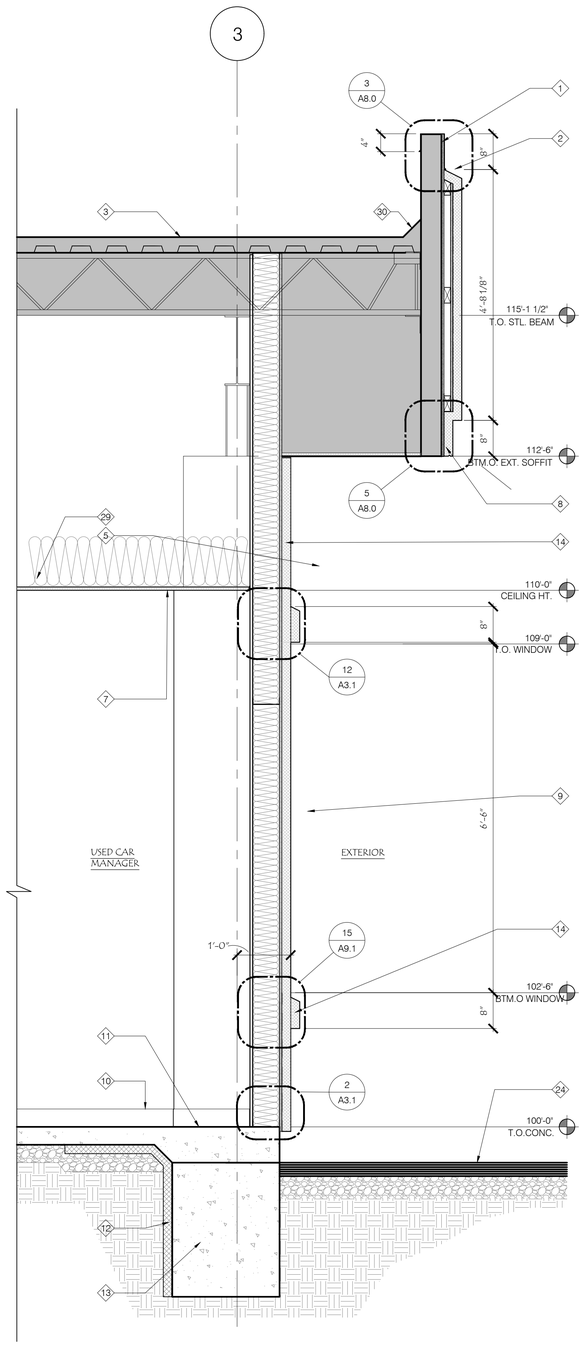

2 WALL SECTION @ GRID 3
SCALE: 3/4"=1'-0"

KEYED WALL SECTION NOTES

1. NEW PRE-FINISHED ALUM PARAPET CAP OVER 1/2" PLYWD. SHEATHING ON EXIST. PARAPET FRAMING - "BLACK" COLOR TO MATCH STOLIT MILANO METAL PANEL COLOR 57100. SEE EXTERIOR ELEVATIONS SHEET A3.0
2. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM (INCLUDES FLUID APPLIED VAPOR/AIR BARRIER) ON 1/2" PLYWD. SHEATHING OVER EXIST. PARAPET FRAMING, TYPICAL. COLOR TO BE 'SILVER' 057110. SEE EXTERIOR ELEVATIONS SHEET A3.0
3. EXISTING ROOFING SYSTEM AND STRUCTURE BELOW TO REMAIN AS POSSIBLE. (THE EXISTING R-VALUE OF THE ROOF IS R-20.) SEE STRUCT. DRAWINGS FOR REQUIRED UPGRADES TO THE EXISTING BUILDING.
4. NEW ACOUSTICAL CEILING GRID, PADS & LIGHTING @ EXTERIOR. BRACE AND SUSPEND FROM STRUCTURE ABOVE. SEE REFLECTED CEILING PLAN A6.0.
5. NEW HEAVY DUTY 6" MTL. GAGE STUDS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE AND 1/2" PLYWD. SHEATHING ON THE EXTERIOR SIDE. INCLUDE R-20 BATT INSULATION IN ALL STUD CAVITIES. SEE STRUCT DRAWINGS.
6. NEW HEAVY DUTY 15/8" MTL. CHANNELS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE. TYPICAL AT EXISTING CMU WALLS & BRICK COLUMNS.
7. NEW ACOUSTICAL CEILING SYSTEM, WITH PADS & RECESSED LED CAN LIGHTING. BRACE AND SUSPEND FROM STRUCTURE ABOVE. SEE REFLECTED CEILING PLAN A6.0.
8. FLANGED ACCENT BAND AT WINDOWS AND DOORS; NEW 2" STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM. COLOR "BLACK" 057100.
9. NEW ALUM. STOREFRONT WINDOW SYSTEM W/ 1" INSULATED GLASS IN CLEAR ANODIZED FRAMES.
10. 4" CERAMIC TILE BASE. TYPICAL. SEE FINISH SCHEDULE ON SHEET A9.2
11. NEW 4" CONC. SLAB ON 10 MIL V.B. OVER 4" CRUSHED AND COMPACTED STONE BASE. SEE STRUCT. SHEET S2.1 FOR FOUNDATION PLAN.
12. R-10 CONTINUOUS RIGID INSULATION @ PERIMETER. TYPICAL.
13. NEW. CONC. REINFORCED GRADE BEAM FOUNDATION - SEE STRUCT SHEET S2.1 FOR FOUNDATION PLAN & SHEET S5.1 FOR REINFORCING DETAILS.
14. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM. (INCLUDES FLUID APPLIED AIR/VAPOR BARRIER) ON 1/2" PLYWOOD SHEATHING. INCLUDE REVEALS, HEADER & SILL BAND. SEE EXTERIOR ELEVATION SHEET A3.0, FOR COLOR SCHEME. 'SILVER, BLACK & GREY' .
15. NEW EXTERIOR GRADE, WALL MOUNTED, LED ACCENT LIGHT. COLOR & FIXTURE TO BE SELECTED.
16. EXISTING COLUMN TO REMAIN. CLEAN BRICK, TUCKPOINT AS REQ'RD AND PAINT 'GREY' TO MATCH STOLIT MILANO METAL PANEL FINISH 057110.
17. NEW PLANTER; SEGMENTED RETAINING WALL, COLOR TO MATCH EXISTING. - INCLUDE NEW ASPHALT PAVING WHERE INDICATED. SEE ARCHITECTURAL SITE PLAN SEE SHEET A1.0.
18. EXISTING CONC. SLAB TO REMAIN WHERE INDICATED. SEE STRUCT.
19. PROVIDE NEW CONC. STAIR, OVER SEE STRUCT. INCLUDE GALVANIZED HANDRAILS @ EA. SIDE AND MIDDLE W/ 12" EXTENSION BEYOND TOP & BTM. RISER.
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STATE OF MISSOURI
BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
02.22.21
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Dave Sinclair Buick - GMC
BUICK | GMC

2-22-2021
PERMIT SET

PROJECT NUMBER:
20034.00

WALL SECTIONS & DETAILS

A8.1

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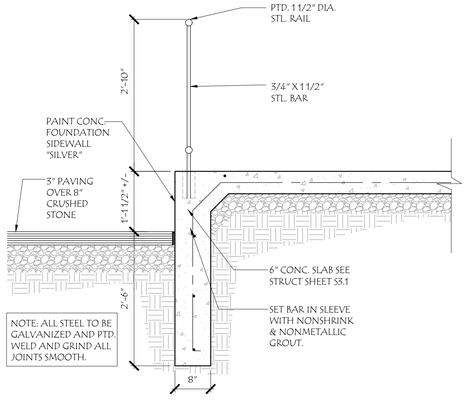

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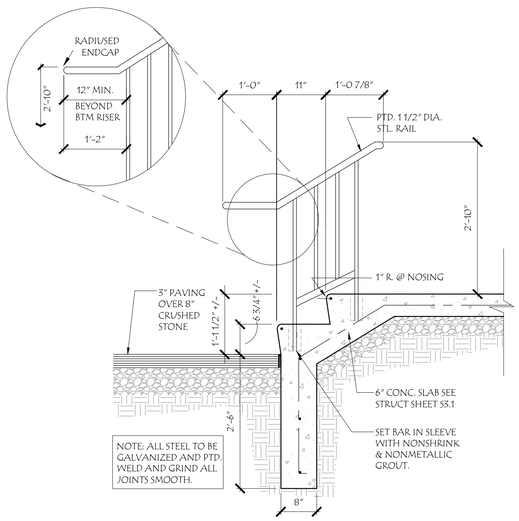

2 SECTION @ FRONT STAIR
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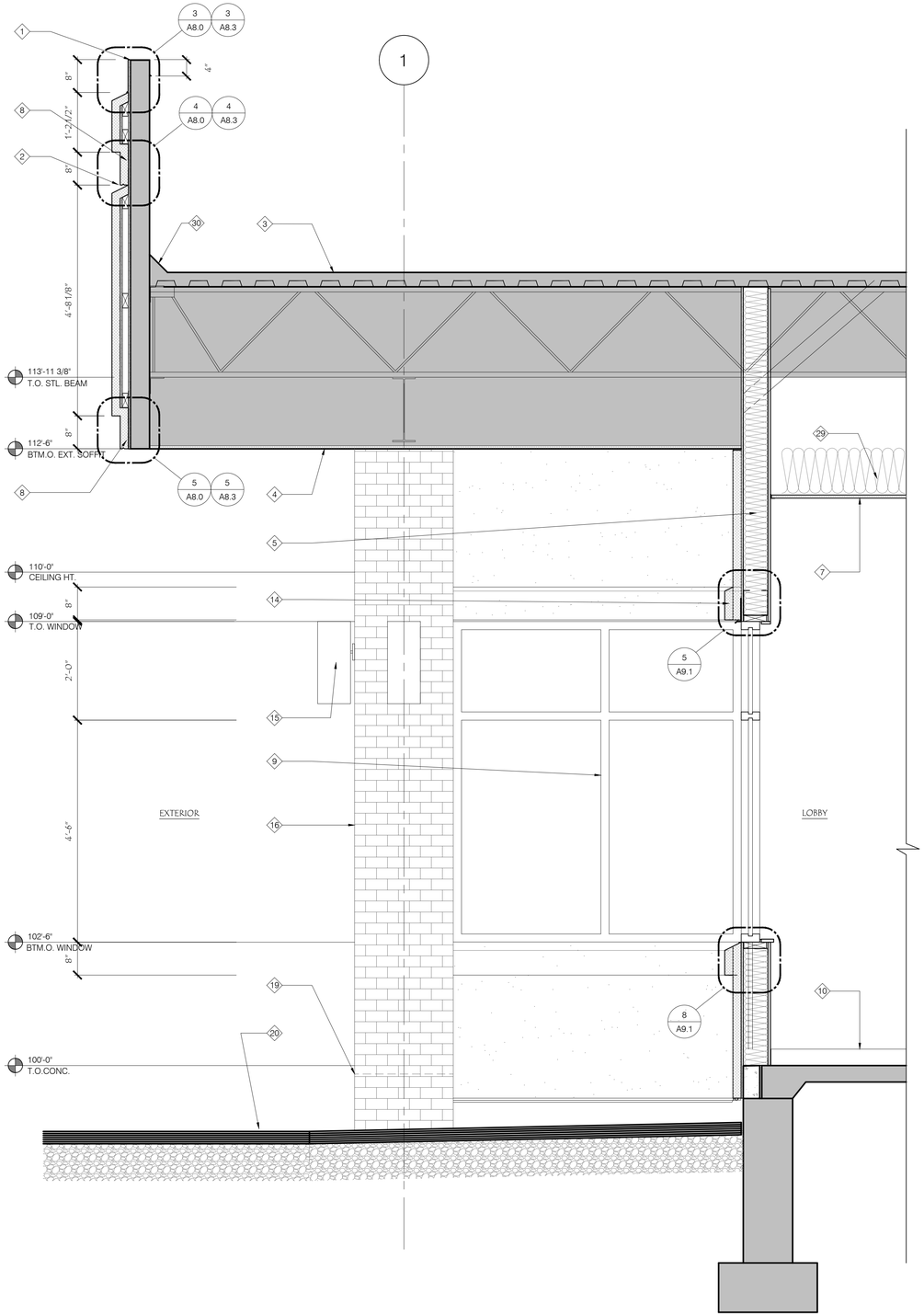

2 WALL SECTION @ FRONT STAIR
SCALE: 3/4"=1'-0"

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1. NEW PRE-FINISHED ALUM PARAPET CAP OVER 1/2" PLYWD. SHEATHING ON EXIST. PARAPET FRAMING - "BLACK" COLOR TO MATCH STOLIT MILANO METAL PANEL COLOR 57100. SEE EXTERIOR ELEVATIONS SHEET A3.0
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6. NEW HEAVY DUTY 1 5/8" MTL. CHANNELS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE. TYPICAL AT EXISTING CMU WALLS & BRICK COLUMNS.
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NUMBER AR 005200
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02.22.21

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Dave Sinclair Buick - GMC
BUICK | GMC

2-22-2021
PERMIT SET

PROJECT NUMBER:
20034.00

WALL SECTIONS & DETAILS

A8.2

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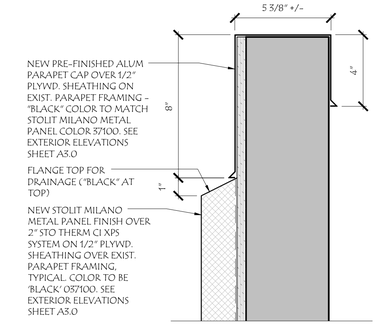

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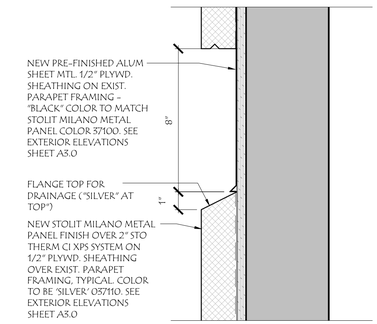

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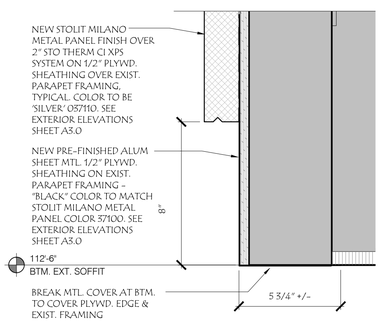

5 DTL.@ PARAPET BTM ALTERNATE
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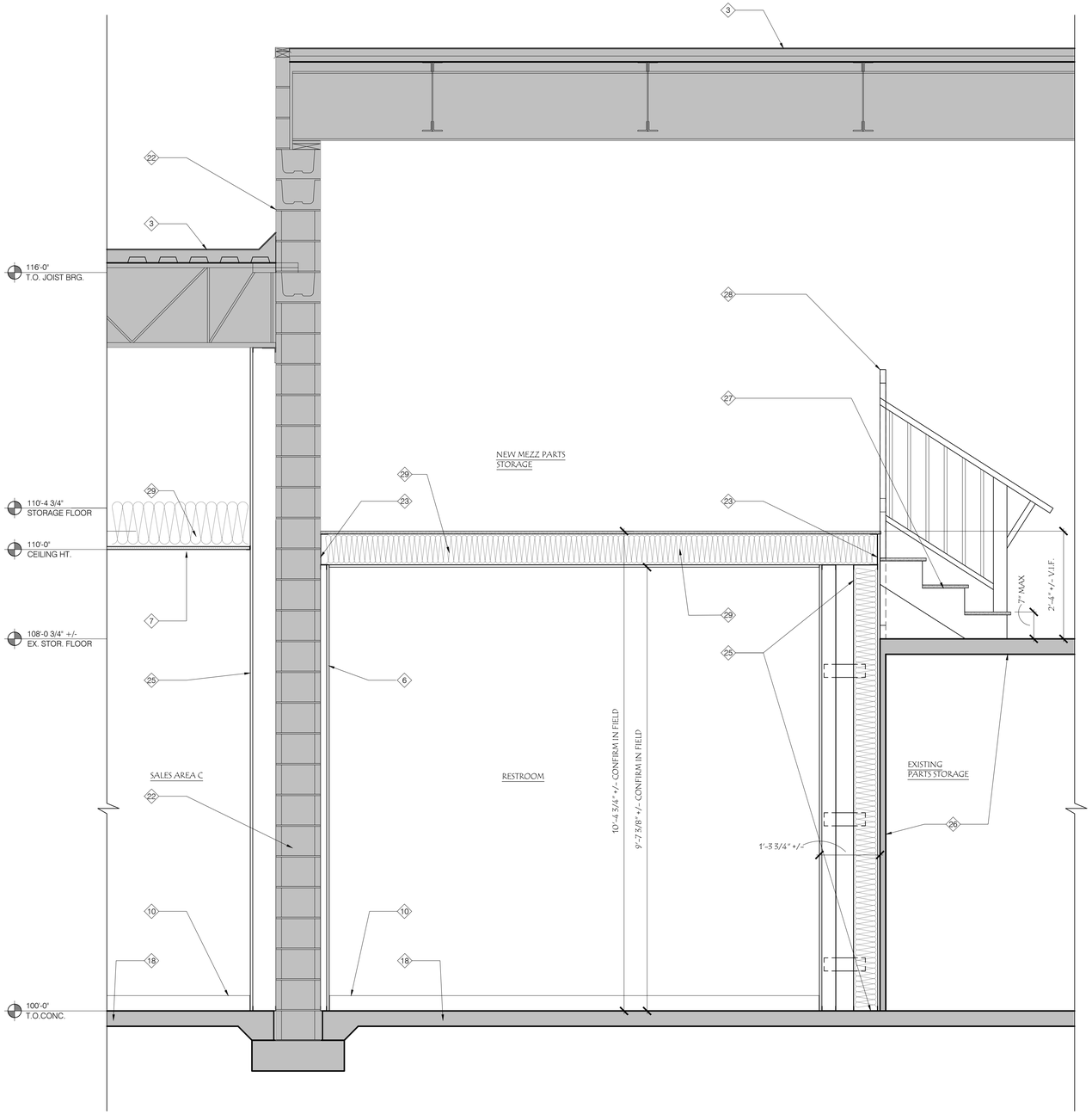

1 WALL SECTION @ WOMEN'S RESTROOM
SCALE: 3/4"=1'-0"

KEYED WALL SECTION NOTES

1. NEW PRE-FINISHED ALUM PARAPET CAP OVER 1/2" PLYWD. SHEATHING ON EXIST. PARAPET FRAMING - "BLACK" COLOR TO MATCH STOLIT MILANO METAL PANEL COLOR 57100. SEE EXTERIOR ELEVATIONS SHEET A5.0
2. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM (INCLUDES FLUID APPLIED VAPOR/AIR BARRIER) ON 1/2" PLYWD. SHEATHING OVER EXIST. PARAPET FRAMING, TYPICAL. COLOR TO BE 'SILVER' 057110. SEE EXTERIOR ELEVATIONS SHEET A5.0
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5. NEW HEAVY DUTY 6" MTL. GAGE STUDS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE AND 1/2" PLYWD. SHEATHING ON THE EXTERIOR SIDE. INCLUDE R-20 BATT INSULATION IN ALL STUD CAVITIES. SEE STRUCT DRAWINGS.
6. NEW HEAVY DUTY 1 5/8" MTL. CHANNELS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE. TYPICAL AT EXISTING CMU WALLS & BRICK COLUMNS.
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21. PROVIDE 12" PITTCON COLUMN COVER. COLOR TO BE SELECTED ('SILVER'). SEE DETAIL 10/A4.0
22. EXISTING CMU WALL TO REMAIN. SEE STRUCT FOR UPGRADES.
23. 3/4" PLYWD. SUBFLOOR OVER 8" 'C' CHANNELS @ 16" O.C. W/ 5/8" GYP. BD. AT UNDERSIDE FOR CEILING FINISH (FLOOR / CEILING FRAMING OVER BREAK ROOM AND TOILET ROOMS.). SEE STRUCT SHEET S4.1 FOR FRAMING PLAN.
24. 3" ASPHALT PAVING OVER 8" CRUSHED STONE BASE. - PATCH EXISTING ASPHALT WHERE REQUIRED. SEE ARCHITECTURAL SITE PLAN A1.0.
25. NEW HEAVY DUTY 6" MTL. GAGE STUDS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE FINISHED INTERIOR STORAGE SIDE. - PLUMBING CAVITY WALL. SEE PARTITION TYPES ON SHEET A9.1
26. EXISTING STORAGE SYSTEM & BAR GRATE FLOOR TO REMAIN AS POSSIBLE. ANY REQUIRED MODIFICATION WORK SHALL BE DONE BY OWNER'S VENDOR.
27. NEW WOOD STAIR W/ 2x12 STRINGER @ EA. END AND MIDDLE. (4) RISERS @ 7" EA. MAX.) INCLUDE WOOD HANDRAIL PER CODE. VERIFY DIMENSIONS IN FIELD.
28. NEW 2x WOOD GUARDRAIL @ 42" A.F.F. PER CODE.
29. R-30 INSULATION ABOVE CEILING, TYPICAL. - SEE COMCHECK FOR IECC COMPLIANCE ON SHEET A0.02
30. REPAIR ROOF CORNERS & TERMINATIONS AS DISCOVERED BY ROOFING CONTRACTOR WALK - THRU
31. NEW CONC. STAIRS. SEE STRUCT DETAIL 7/S3.1.
32. PAINT CONC. FONDATION TO MATCH STOLIT MILANO METAL PANEL FINISH "SILVER" 57110.
33. NEW GALVANIZED HANDRAIL AT VESTIBULE LANDING & STAIRS

BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
STATE OF MISSOURI
02.22.21

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Dave Sinclair Buick - GMC
BUICK | GMC

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PERMIT SET

PROJECT NUMBER:
20034.00

WALL SECTIONS & DETAILS

A8.3

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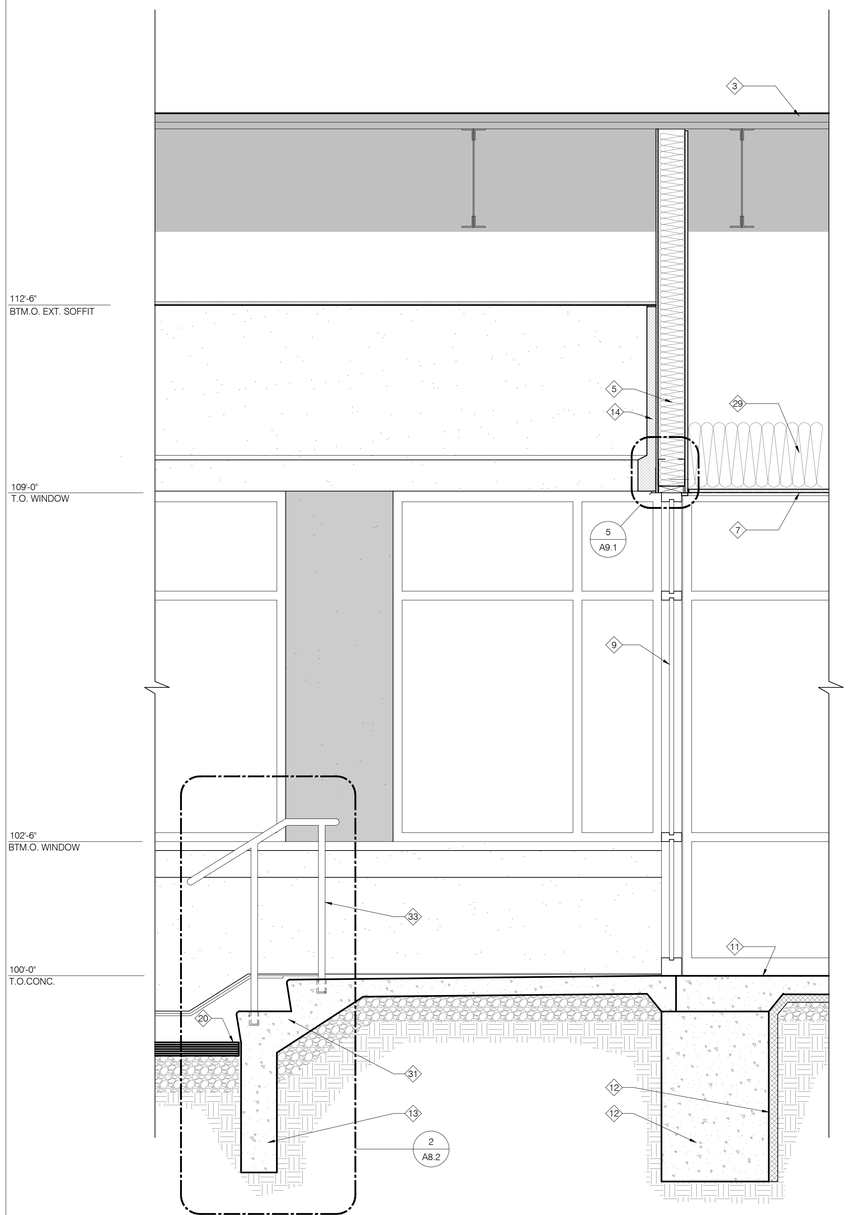
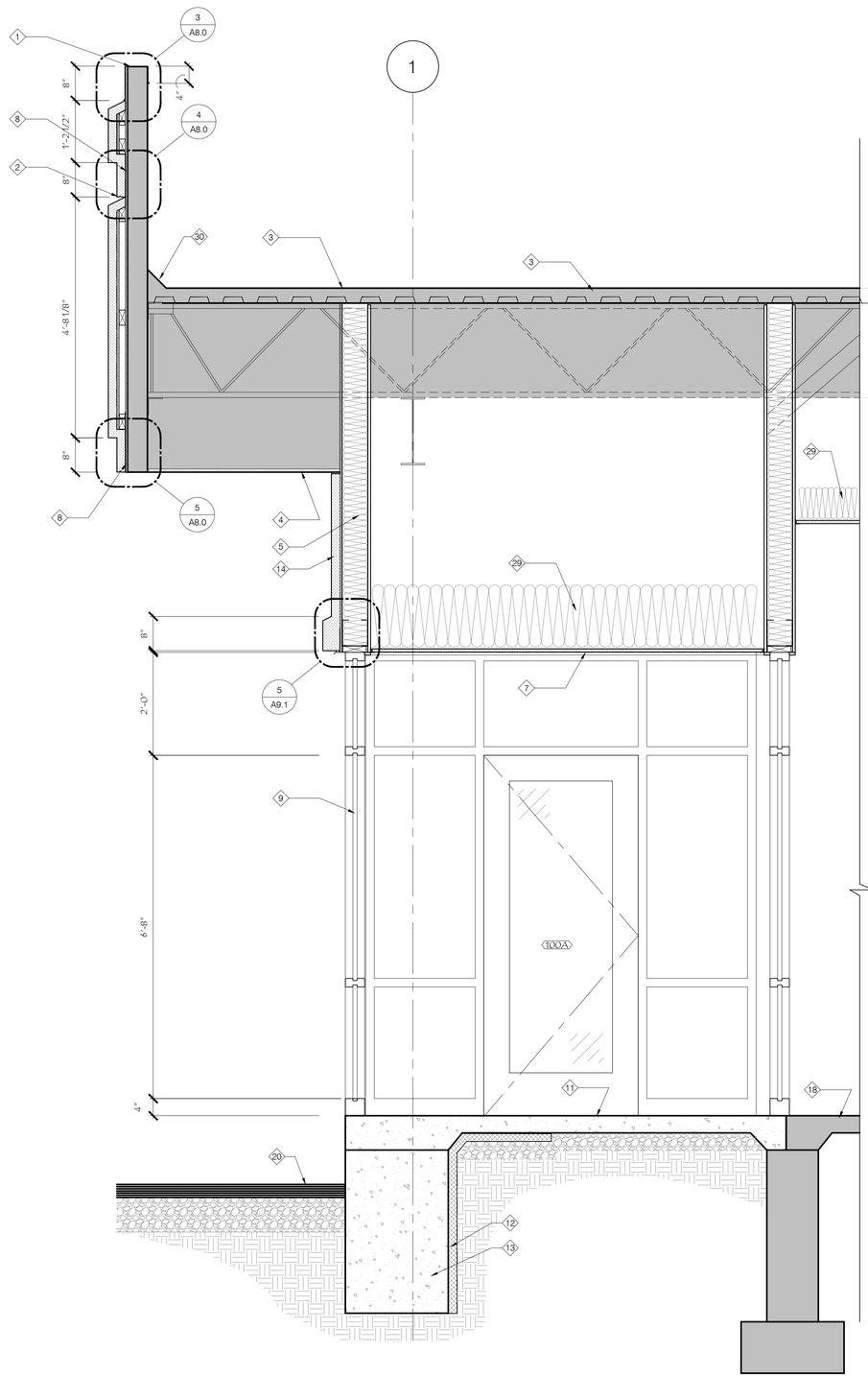


1 WALL SECTION @ VESTIBULE 100A

SCALE: 3/4"=1'-0"



2 WALL SECTION @ VESTIBULE 100A

SCALE: 3/4"=1'-0"

KEYED WALL SECTION NOTES

1. NEW PRE-FINISHED ALUM PARAPET CAP OVER 1/2" PLYWD. SHEATHING ON EXIST. PARAPET FRAMING - "BLACK" COLOR TO MATCH STOLIT MILANO METAL PANEL COLOR 57100. SEE EXTERIOR ELEVATIONS SHEET A3.0
2. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM (INCLUDES FLUID APPLIED VAPOR/AIR BARRIER) ON 1/2" PLYWD. SHEATHING OVER EXIST. PARAPET FRAMING, TYPICAL. COLOR TO BE 'SILVER' 057110. SEE EXTERIOR ELEVATIONS SHEET A3.0
3. EXISTING ROOFING SYSTEM AND STRUCTURE BELOW TO REMAIN AS POSSIBLE. (THE EXISTING R-VALUE OF THE ROOF IS R-20.) SEE STRUCT. DRAWINGS FOR REQUIRED UPGRADES TO THE EXISTING BUILDING.
4. NEW ACOUSTICAL CEILING GRID, PADS & LIGHTING @ EXTERIOR. BRACE AND SUSPEND FROM STRUCTURE ABOVE. SEE REFLECTED CEILING PLAN A6.0.
5. NEW HEAVY DUTY 6" MTL. GAGE STUDS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE AND 1/2" PLYWD. SHEATHING ON THE EXTERIOR SIDE. INCLUDE R-20 BATT INSULATION IN ALL STUD CAVITIES. SEE STRUCT DRAWINGS.
6. NEW HEAVY DUTY 1 5/8" MTL. CHANNELS @ 16" O.C. W/ 5/8" GYPSUM BD. ON THE INTERIOR SIDE. TYPICAL AT EXISTING CMU WALLS & BRICK COLUMNS.
7. NEW ACOUSTICAL CEILING SYSTEM, WITH PADS & RECESSED LED CAN LIGHTING. BRACE AND SUSPEND FROM STRUCTURE ABOVE. SEE REFLECTED CEILING PLAN A6.0.
8. FLANGED ACCENT BAND AT WINDOWS AND DOORS; NEW 2" STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM. COLOR "BLACK" 057100.
9. NEW ALUM. STOREFRONT WINDOW SYSTEM W/ 1" INSULATED GLASS IN CLEAR ANODIZED FRAMES.
10. 4" CERAMIC TILE BASE, TYPICAL. SEE FINISH SCHEDULE ON SHEET A9.2
11. NEW 4" CONC. SLAB ON 10 MIL V.B. OVER 4" CRUSHED AND COMPACTED STONE BASE. SEE STRUCT. SHEET S2.1 FOR FOUNDATION PLAN.
12. R-10 CONTINUOUS RIGID INSULATION @ PERIMETER. TYPICAL.
13. NEW. CONC. REINFORCED GRADE BEAM FOUNDATION - SEE STRUCT SHEET S2.1 FOR FOUNDATION PLAN & SHEET S3.1 FOR REINFORCING DETAILS.
14. NEW STOLIT MILANO METAL PANEL FINISH OVER 2" STO THERM CI XPS SYSTEM (INCLUDES FLUID APPLIED AIR/VAPOR BARRIER) ON 1/2" PLYWOOD SHEATHING. INCLUDE REVEALS, HEADER & SILL BAND. SEE EXTERIOR ELEVATION SHEET A3.0, FOR COLOR SCHEME. 'SILVER, BLACK & GREY' .
15. NEW EXTERIOR GRADE, WALL MOUNTED, LED ACCENT LIGHT. COLOR & FIXTURE TO BE SELECTED.
16. EXISTING COLUMN TO REMAIN. CLEAN BRICK, TUCKPOINT AS REQ'RD AND PAINT 'GREY' TO MATCH STOLIT MILANO METAL PANEL FINISH 057110.
17. NEW PLANTER; SEGMENTED RETAINING WALL, COLOR TO MATCH EXISTING. - INCLUDE NEW ASPHALT PAVING WHERE INDICATED. SEE ARCHITECTURAL SITE PLAN SEE SHEET A1.0.
18. EXISTING CONC. SLAB TO REMAIN WHERE INDICATED. SEE STRUCT.
19. PROVIDE NEW CONC. STAIR, OVER SEE STRUCT. INCLUDE GALVANIZED HANDRAILS @ EA. SIDE AND MIDDLE W/ 12" EXTENSION BEYOND TOP & BTM. RISER.
20. EXISTING ASPHALT PAVING TO REMAIN AS POSSIBLE. SEE ARCHITECTURAL SITE PLAN, SHEET A1.0. WHERE NEW IS REQUIRED INSTALL 3" ASPHALT PAVING OVER 8" WALL COMPACTED CRUSHED STONE BASE.
21. PROVIDE 12" PITTCON COLUMN COVER. COLOR TO BE SELECTED ('SILVER'). SEE DETAIL 10/A4.0
22. EXISTING CMU WALL TO REMAIN. SEE STRUCT FOR UPGRADES.
23. 3/4" PLYWD. SUBFLOOR OVER 8" 'C' CHANNELS @ 16" O.C. W/ 5/8" GYP. BD. AT UNDERSIDE FOR CEILING FINISH (FLOOR / CEILING FRAMING OVER BREAK ROOM AND TOILET ROOMS.). SEE STRUCT SHEET S4.1 FOR FRAMING PLAN.
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STATE OF MISSOURI
BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT

02.22.21

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2-22-2021
PERMIT SET

PROJECT NUMBER:
20034.00

WALL SECTIONS & DETAILS

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DOOR SCHEDULE

DOOR NO.	DOOR TYPE	SIZE	FRAME TYPE	HARDWARE	DETAILS			LABEL	REMARKS
					HEAD	JAMB	SILL		
MAIN FLOOR									
100	AL-1	3'-0" X 7'-0"	AL-A	1	5/A9.1	6/A9.1	–	–	–
100A	AL-1	3'-0" X 7'-0"	AL-E	1	5/A9.1	6/A9.1	–	–	–
100B	AL-1	3'-0" X 7'-0"	AL-E	1	5/A9.1	6/A9.1	–	–	–
101	AL-1	3'-0" X 7'-0"	AL-B	2	5/A9.1	6/A9.1	–	–	–
102	WD-1	3'-0" X 7'-0"	HM-A	3	1/A9.1	2/A9.1	–	–	–
102A	WD-1	3'-0" X 7'-0"	POCKET DOOR	6	–	–		–	POCKET DOOR
103	WD-1	3'-0" X 7'-0"	HM-A	3	1/A9.1	2/A9.1	–	–	2
103A	WD-3	5'-0" X 7'-0" – BI-PASS	GTY. BD. C.O.	7	9/A9.1	–	–	–	SLIDING CLOSET DOORS
104	AL-1	3'-0" X 7'-0"	AL-C	2	5/A9.1	6/A9.1	–	–	1
105	WD-2	3'-0" X 7'-0"	HM-D	3	1/A9.1	2/A9.1		–	–
105A	WD-3	5'-0" X 7'-0" – BI-PASS	GTY. BD. C.O.	7	9/A9.1	–	–	–	SLIDING CLOSET DOORS
106	WD-1	3'-0" X 7'-0"	HM-C	4	4/A9.1	4/A9.1	–	–	–
107	WD-1	3'-0" X 7'-0"	HM-C	4	4/A9.1	4/A9.1	–	–	1
108	WD-1	3'-0" X 7'-0"	HM-C	5	4/A9.1	4/A9.1	–	–	–
109	WD-2	3'-0" X 7'-0"	HM-A	3	1/A9.1	2/A9.1	–	–	1
110	WD-2	3'-0" X 7'-0"	HM-A	3	1/A9.1	2/A9.1	–	–	1
111	AL-1	3'-0" X 7'-0"	AL-D	2	5/A9.1	6/A9.1	–	–	1
200	WD-1	PAIR OF 3'-0" X 7'-0"	HM-A	3	1/A9.1	2/A9.1	–	–	1

WINDOW - BORROW LIGHT SCHEDULE

⬡ WINDOW BL - BARROW LIGHT T- TEMPERED GLASS

MK	WINDOW SIZE	DESCRIPTION	REMARKS	HEAD HT.
A	6'-6" X 10'-0"	PRE-FIN. ALUMN.	XXXXX	
B	6'-6" X 4'-0"	PRE-FIN. ALUMN.		
C	6'-6" X 2'-4 1/8"	PRE-FIN. ALUMN.		
D	6'-6" X 3'-4"	PRE-FIN. ALUMN.		
E	6'-6" X 6'-0 5/8"	PRE-FIN. ALUMN.		
BL-A	4'-4" X 7'-10"	HOLLOW METAL		

DOOR SCHEDULE GENERAL NOTES

1. SPECIES OF ALL WOOD DOORS TO BE PLAIN WHITE BIRCH.
2. ALL DOORS TO USE STANDARD LEVER TYPE HARDWARE THAT MEETS ACCESSIBILITY REQUIREMENTS.
3. ALL MEANS OF EGRESS DOORS SHALL BE OPERABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL KNOWLEDGE, SPECIAL EFFORT, OR A KEY.
4. CONTRACTOR TO VERIFY ALL HARDWARE, OPERATION AND KEYING OF DOOR FUNCTIONS WITH OWNER PRIOR TO PURCHASING.
5. CONTRACTOR TO VERIFY ALL ELECTRICAL DOOR DEVICES (INCLUDING DOOR BUZZER SYSTEM WITH OWNER PRIOR TO PURCHASING.
6. ALL APPLICABLE LOCKS TO HAVE INTERCHANGEABLE CORE FOR EASY RE-KEYING.

DOOR SCHEDULE REMARKS

1	UNDERCUT HOLLOW METAL DOOR 3/4"
2	GALV. HOLLOW METAL DOOR AND FRAME
3	HEAVY DUTY PANIC HRDWR. EXT DOORS BE EXIT ONLY, VERIFY WITH LOCAL AUTHORITIES
4	–
5	–
6	–
7	–
8	–
9	–
10	–

HARDWARE SCHEDULE

GROUP 1 : FRONT ENTRY

(1)	CLOSER 4011T X 4010-3030B ALUM X TB	LCN
(1)	WEATHER SEAL	NAT'L GUARD
(1)	ADA THRESHOLD	NAT'L GUARD
(1)	SWEEP	

BALANCE OF HARDWARE BY ALUM. DOOR MANUF.

GROUP 2 : FRONT ENTRY

(1)	CLOSER 4011T X 4010-3030B ALUM X TB	LCN
(1)	WEATHER SEAL	NAT'L GUARD
(1)	ADA THRESHOLD	NAT'L GUARD
(1)	SWEEP	

BALANCE OF HARDWARE BY ALUM. DOOR MANUF.

GROUP 3: OFFICE

(3)	HINGES BB1279 4.5 X 4.5 US26D	HAGER
(1)	LOCKSET D70PD SPARTA 626 X 10-025	SCHLAGE
(1)	CLOSER 4011 ALUM X TB	LCN
(1)	SET SEAL 5050 – VERIFY COLOR	NAT'L GUARD

GROUP 4: RESTROOMS

(3) BB5 HINGES NRP 4.5 X 4.5 US26D
(1) CLOSER 516 HD PA ALUM X TB
(1) PUSH PLATE (70C X US26D) – PUSHP-416
(1) PULL WITH PLATE (110 X 70C X US26D)– PULLP-416
(1) KICK PLATE 10 X 2" LDW US32D B4E – KP050
(1) LOCKSET X-82 – THUMB TURN LOCK
(1) SILENCERS

GROUP 5: BREAK ROOM

(1) BB5 HINGES NRP 4.5 X 4.5 US26D
(1) LATCHSET X-75-F PASSAGE (HALF CURVE LEVER)
(2) KICK PLATE @ SHOP BREAKROOM 10 X 2" LDW US32D B4E – KP050
(1) CLOSER 516 HD PA ALUM X TB
(1) SILENCERS

GROUP 6: POCKET DOOR HARDWARE

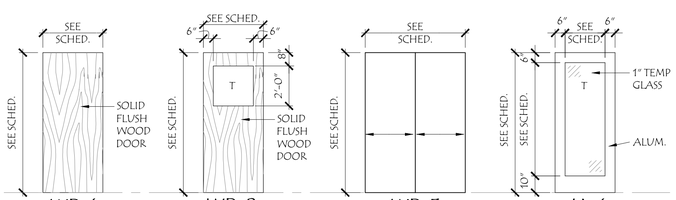
(1) TOP TRACK
(1) FACE PULL @ RECESSED EA. SIDE OF DOOR
(1) EDGE PULL
(1) LOCK – CONFIRM WITH SUPPLIER
(1) BOTTOM DOOR GUIDE

GROUP 6: BI- PASS DOOR HARDWARE

(1) TOP TRACK
(1) TRACK FASCIA COVER
(2) FACE PULL @ RECESSED EA. DOOR

DOOR TYPES

T = TEMPERED GLASS



WD-1
MATERIAL: SOLID CORE WOOD SWINGING DOOR OR POCKET DOOR
THICKNESS: 1 3/4"
GLAZING: NONE

WD-2
MATERIAL: SOLID CORE WOOD SWINGING DOOR
THICKNESS: 1 3/4"
GLAZING: 1/4" TEMP.

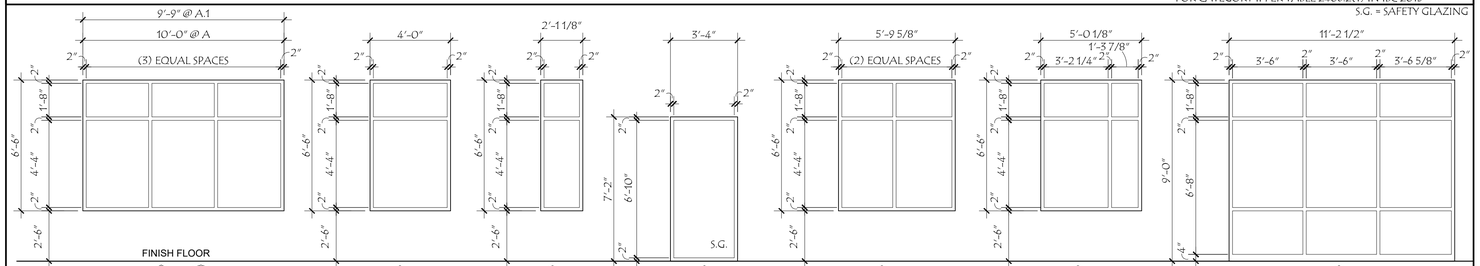
WD-3
MATERIAL: SOLID CORE WOOD SLIDING CLOSET DOORS
THICKNESS: 1 3/4"
GLAZING: NONE

AL-1
MATERIAL: ALUMINUM
THICKNESS: 1 3/4" INSUL.
GLAZING: 1" INSULATED CLEAR TEMPERED

WINDOW ELEVATIONS

ALL SAFETY GLAZING TO COMPLY WITH THE TEST CRITERIA FOR CATEGORY II PER TABLE 2406.2(1) IN IBC 2015

S.G. = SAFETY GLAZING



A A.1 PRE-FINISHED ALUMINUM WINDOW

B PRE-FINISHED ALUMINUM WINDOW

C PRE-FINISHED ALUMINUM WINDOW

D PRE-FINISHED ALUMINUM WINDOW – CONFIRM EXISTING OPENING SIZE

E PRE-FINISHED ALUMINUM WINDOW

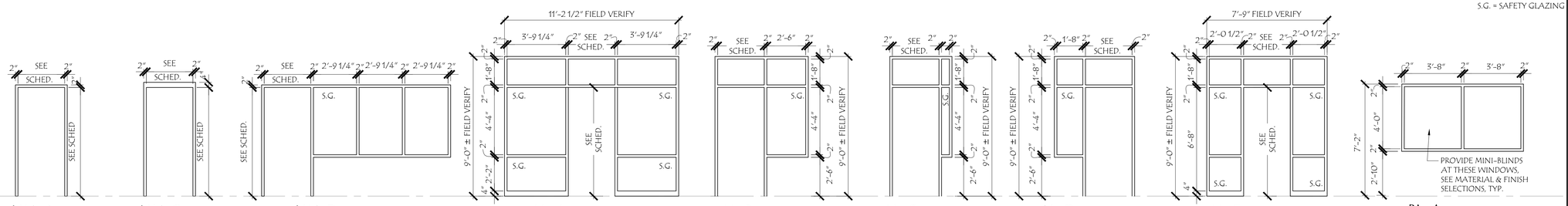
F PRE-FINISHED ALUMINUM WINDOW

G PRE-FINISHED ALUMINUM WINDOW

FRAME TYPES

ALL SAFETY GLAZING TO COMPLY WITH THE TEST CRITERIA FOR CATEGORY II PER TABLE 2406.2(1) IN IBC 2015

S.G. = SAFETY GLAZING



HM-A
MATERIAL: HOLLOW METAL W/ KNOCK-DOWN FRAME.
PRIMED & PAINTED
THICKNESS: 2"
GLAZING: NONE

HM-C
MATERIAL: HOLLOW METAL W/ WELDED CORNERS. PRIMED & PAINTED
THICKNESS: 2"/4"
GLAZING: NONE

HM-D
MATERIAL: HOLLOW METAL W/ WELDED CORNERS. PRIMED & PAINTED
THICKNESS: 2"
GLAZING: TEMP.

AL-A
MATERIAL: ALUMINUM
FINISH: CLEAR ANODIZED
WIDTH: 2"
GLAZING: 1" INSUL., TINTED, TEMP.

AL-B
MATERIAL: ALUMINUM
FINISH: CLEAR ANODIZED
WIDTH: 2"
GLAZING: 1" INSUL., TINTED, TEMP.

AL-C
MATERIAL: ALUMINUM
FINISH: CLEAR ANODIZED
WIDTH: 2"
GLAZING: 1" INSUL., TINTED, TEMP.

AL-D
MATERIAL: ALUMINUM
FINISH: CLEAR ANODIZED
WIDTH: 2"
GLAZING: 1" INSUL., TINTED, TEMP.

AL-E
MATERIAL: ALUMINUM
FINISH: CLEAR ANODIZED
WIDTH: 2"
GLAZING: 1" INSUL., TINTED, TEMP.

BL-A
MATERIAL: HOLLOW METAL W/ KNOCK-DOWN FRAME.
FINISH: PRIMED & PAINTED.
THICKNESS: 2"
GLAZING: TEMP.

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2-22-2021
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PROJECT NUMBER:
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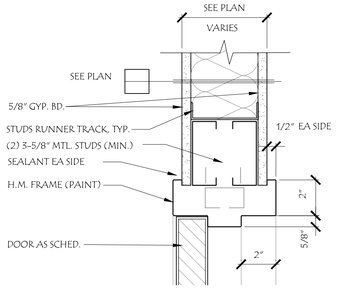
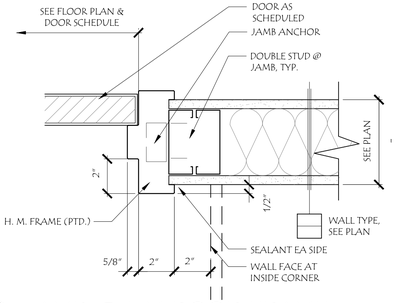
DOOR SCHEDULE
DOOR & FRAME TYPES

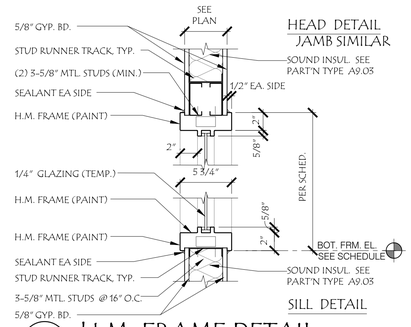
A9.0



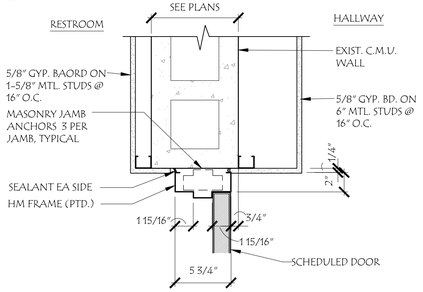
1 HEAD @ HM DOOR FRAME
SCALE: 3"=1'-0"



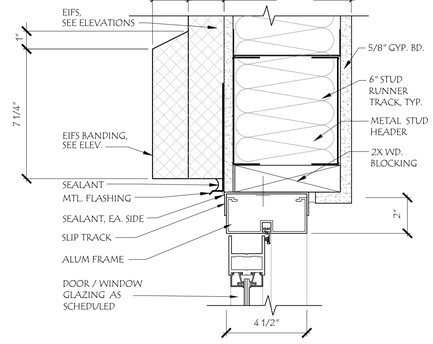
2 JAMB @ HM DOOR FRAME
SCALE: 3"=1'-0"



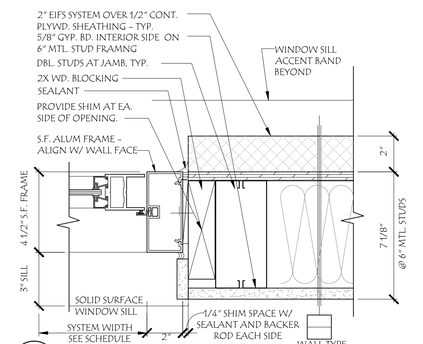
3 H.M. FRAME DETAIL
SCALE: 1/2"=1'-0"



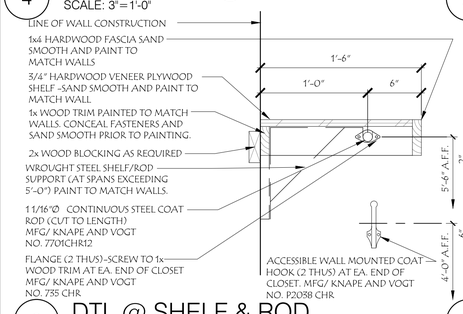
4 HEAD / JAMB @ CONC. FURRING
SCALE: 3"=1'-0"



5 HEAD @ SF FRAME
SCALE: 3"=1'-0"



6 JAMB @ SF FRAME
SCALE: 3"=1'-0"



8 DTL @ SHELF & ROD
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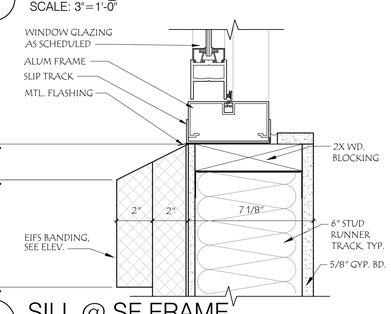

8 SILL @ SF FRAME
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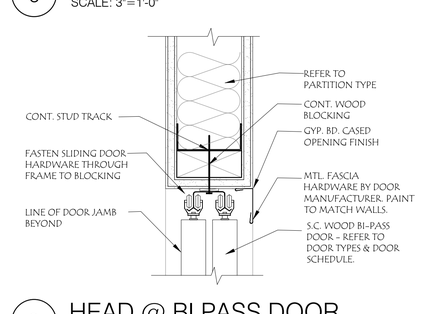
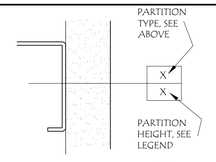


9 HEAD @ BI PASS DOOR
SCALE: 3"=1'-0"

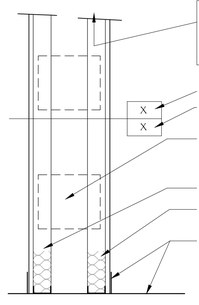


TYP. PARTITION KEY

PARTITION HEIGHT LEGEND (SYMBOLS FOR EACH HEIGHT OPTION REFERENCED ON PLANS)

PARTITION REMARKS

1. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BEARING WALL LOCATIONS, SHEAR WALL LOCATIONS REQUIRING WOOD SHEATHING, WOOD STUD REQUIREMENTS AND WOOD STUD SPACING.
2. WITH SOUND BATTS
3. WITH 1/2"RESILIENT CHANNEL
4. WITH STRUCTURAL SHEAR PANEL, SEE STRUCT.
5. AT 1-HR. RATED SMOKE PARTITION, EXTEND TO BOTTOM OF ROOF DECK



CHASE WALL PARTITION
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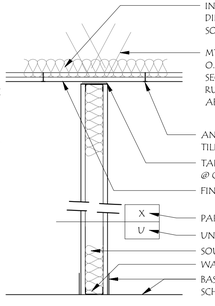
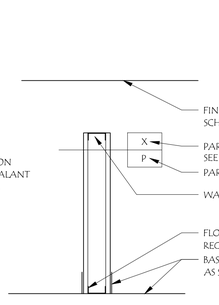
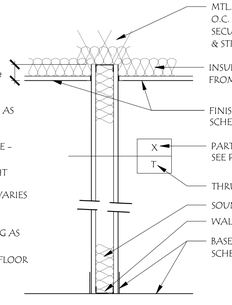


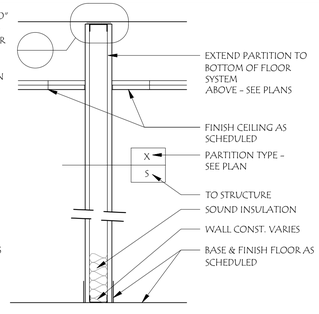
U UNDERSIDE OF CEILING
NO SCALE



P PARTIAL HEIGHT PARTITION
NO SCALE



T PARTITION THRU CEILING
NO SCALE



S PARTITION TO STRUCTURE
NO SCALE

PARTITION NOTES

GENERAL NOTES

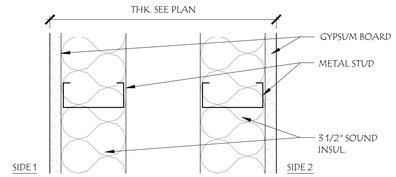
FRAMING

A. ALL LOAD-BEARING PARTITIONS SHALL BE CONSTRUCTED PER STRUCTURAL DRAWINGS AND SPECIFICATIONS.
B. ALL NON-BEARING PARTITIONS SHALL BE CONSTRUCTED TO LIMIT DEFLECTION PER LATEST PUBLISHED BUILDING CODE RESTRICTIONS AND MANUFACTURER'S DATA - WHICHEVER IS GREATER. CHASE WALL SHALL RESIST EXPECTED LOADS PARTICULAR TO SHAFT.
C. PROVIDE DOUBLE FRAMING AT JAMBS OF FRAMES AND CASED OPENINGS.
D. ISOLATE NON-BEARING FRAMING FROM STRUCTURAL ELEMENTS WITH SLIP CONNECTIONS, ETC. TO PREVENT TRANSFER OF LOADS TO PARTITION FRAMING.
E. CONTROL JOINTS (C.J.) TO BE INSTALLED BY GYP. BD. CONTRACTOR, INSTALLED AT MAXIMUM 30'-0" O.C. AND AT MAJOR INTERRUPTIONS AT THE WALL SUCH AS DOORS, WINDOWS AND EQUIPMENT. SEE ELEVATIONS FOR ADDITIONAL LOCATIONS. VERIFY LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
F. CROSS-BRACING AT ALL CHASE WALL FRAMING TO BE OF 12" HIGH 1/2" GYPSUM BOARD OR MINIMUM 3-5/8" MTL. STUDS - SEE STANDARD DETAIL.
G. PROVIDE BLOCKING FOR ALL WALL MOUNTED ARCHITECTURAL WOODWORK, FINISH CARPENTRY, TOILET PARTITIONS AND ACCESSORIES, RAILINGS, SHELVING AND SIMILAR MOUNTED ITEMS. VERIFY MOUNTING HEIGHTS WITH ARCHITECT AND/OR OWNER.
H. FRAMING SHALL COORDINATE WITH REQUIRED MECHANICAL, ELECTRICAL AND OTHER WORK.
I. ALL FIRE-RATED PARTITIONS WHICH PENETRATE THROUGH CEILING PLANE (i.e. "T" THROUGH CEILING OR "S" TO STRUCTURE P-TYPES) TO HAVE APPROVED FIRE-STOPPING MATERIALS INSTALLED IN THE STUD CAVITY ALIGNING WITH THE CEILING PLANE.

GYPSUM BOARD

A. GYPSUM BOARD SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 840.
B. ALL CORNERS AND EXPOSED EDGES OF GYPSUM BOARD SHALL BE FINISHED WITH TAPED-IN METAL TRIM ACCESSORIES. EXPOSED TRIM SHALL BE USED WHEN SHOWN ON DRAWINGS.
C. ALL GYPSUM BOARD TO 5/8" THICK. PROVIDE TYPE "X" BOARD AT RATED PARTITIONS AND MOISTURE RESISTANT (GREEN BOARD) GYPSUM BOARD BEHIND WET WALLS AND SHOWER AREAS.

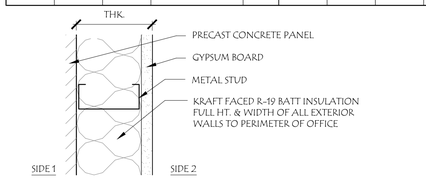
1. ALL CORNERS AND EXPOSED EDGES OF GYPSUM BOARD SHALL BE FINISHED WITH TAPED-IN METAL TRIM ACCESSORIES. EXPOSED TRIM SHALL BE USED WHEN SHOWN ON DRAWINGS.
2. ALL FIRE-RESISTANT RATED PARTITIONS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE REFERENCED FIRE RESISTANCE TEST. IF NO TEST IS REFERENCED, AN INDUSTRY RECOGNIZED FIRE RESISTANCE TEST SHALL BE USED.
3. ALL FIRE-RESISTANT RATED PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO FIRE-RESISTANT RATED HORIZONTAL ASSEMBLY ABOVE.
4. APPROVED FIRE-RESISTIVE MATERIALS MUST BE USED AT ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS.



STUD HEIGHT LIMITATIONS			
STUD	O.C.	22 GA	20 GA
2 1/2"	@ 16"	17'-6"	22'-6"
-	@ 24"	15'-6"	18'-0"
3 5/8"	@ 16"	22'-6"	-
-	@ 24"	19'-0"	-
6"	@ 16"	-	-
-	@ 24"	-	-

PARTITION TYPE "3"

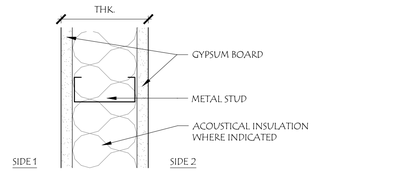
Partition (Chase Wall)						Gypsum Board				Framing		Remarks
						Side 1		Side 2				
Type	Thk	Fire Rating	Test Number (Fire and Sound)		STC Rat'g	Type	Thk	Type	Thk	Size	Spacing	
3A	PER PLAN	-	-		45	REG.	5/8"	REG.	5/8"	3 5/8"	16" o.c.	1
3B	PER PLAN	-	-		45	REG.	5/8"	REG.	5/8"	3 5/8" & 6" STUDS	16" o.c.	1



STUD HEIGHT LIMITATIONS			
STUD	O.C.	22 GA	20 GA
1 5/8"	@ 16"	-	-
-	-	-	-
3 5/8"	@ 16"	14'-6"	17'-0"
-	@ 24"	12'-6"	15'-0"
6"	@ 16"	20'-0"	25'-6"
-	@ 24"	15'-0"	22'-0"

PARTITION TYPE "2"

Partition (Furred Wall)						Gypsum Board				Framing		Remarks
						Side 1		Side 2				
Type	Thk	Fire Rating	Test Number (Fire and Sound)		STC Rat'g	Type	Thk	Type	Thk	Size	Spacing	
2A	2 1/4"	-	-		-	-	-	REG.	5/8"	1 5/8"	16" o.c.	1
2B	4 1/4"	-	-		-	-	-	REG.	5/8"	3 5/8"	16" o.c.	
2C	6 5/8	-	-		-	-	-	REG.	5/8"	6"	16" o.c.	



STUD HEIGHT LIMITATIONS			
STUD	O.C.	22 GA	20 GA
2 1/2"	@ 16"	12'-6"	14'-0"
-	@ 24"	10'-6"	12'-0"
3 5/8"	@ 16"	16'-0"	18'-0"
-	@ 24"	13'-6"	16'-0"
6"	@ 16"	20'-0"	26'-6"
-	@ 24"	15'-0"	25'-0"

PARTITION TYPE "1"

Partition						Gypsum Board				Framing		Remarks
						Side 1		Side 2				
Type	Thk	Fire Rating	Test Number (Fire and Sound)		STC Rat'g	Type	Thk	Type	Thk	Size	Spacing	
1A	4 7/8"	--	--		45	REG.	5/8"	REG.	5/8"	3 5/8"	16" o.c.	
1B	4 7/8"	--	--		--	REG.	5/8"	REG.	5/8"	3 5/8"	16" o.c.	

NOTE: ALL GYPSUM BOARD TO BE HELD NO MORE THAN 1/4" ABOVE FLOOR - FIRE CAULK WHERE REQUIRED
NOTE: SEE PARTITION HEIGHT LEGEND BELOW FOR PARTITION TERMINATION DETAILS

KEYED REMARKS:
1. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL WET WALLS & WET LOCATIONS.

STATE OF MISSOURI
BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
02.22.21

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Dave Sinclair Buick - GMC
BUICK | GMC

2-22-2021
PERMIT SET

PROJECT NUMBER:
20034.00

PARTITION TYPES DOOR DETAILS

A9.1

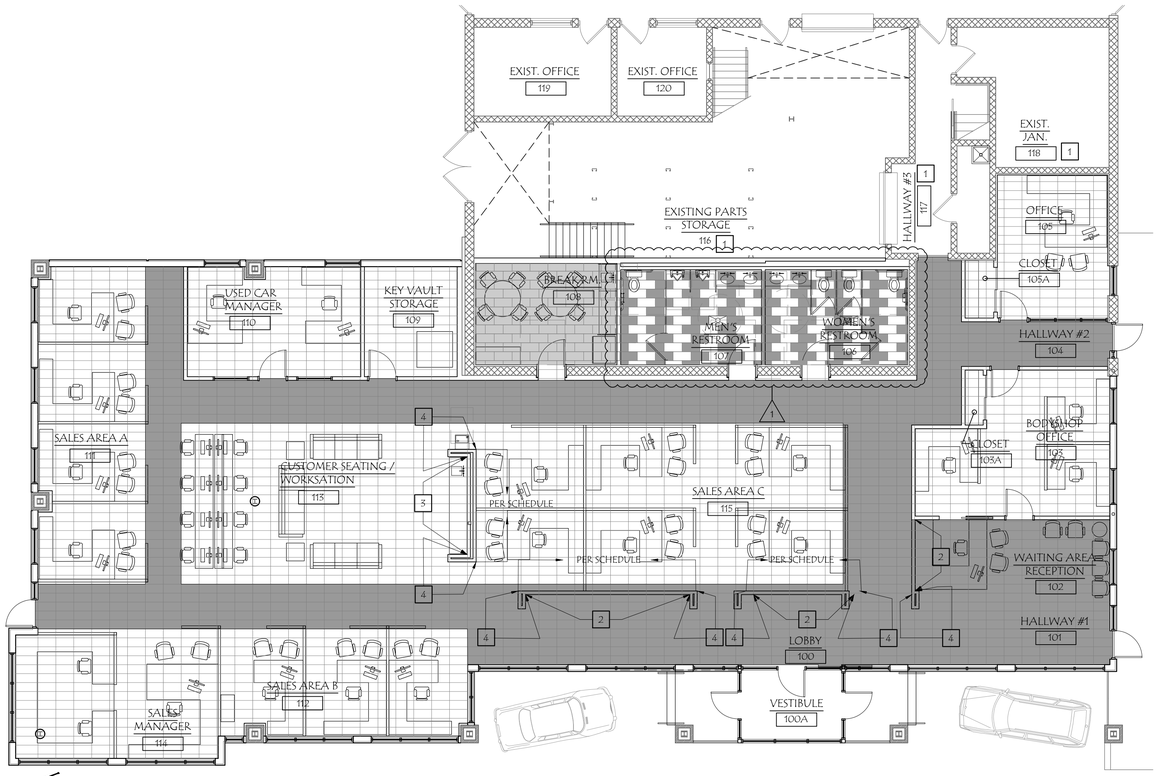
4/13/2021 5:00 PM

MATERIALS FINISH LEGEND

DENOTATION	MANUFACTURER	STYLE	NUMBER/COLOR	SIZE	REMARKS
CLG-1	ARMSTRONG	ULTIMA SQUARE LAY-IN	DURABRITE / WHITE	24" X 24"	
CT-1	CROSSVILLE - BASE BID	12x24 CERAMIC TILE "WHITE"	A215 EMPRESS WHITE	12" X 24"	
CT-2	CERAMIC TILE - BASE BID	12x24 RECTANGLE "BLACK"	ARMOR	12" X 24"	
CT-3	CERAMIC TILE - BASE BID	12x24 RECTANGLE "TAN"	A870 SEAL TAUPE	12" X 24"	
CT-4	CERAMIC TILE BASE - BASE BID	4x24 BASE "BLACK"	ARMOR	4" X 24"	
CT-5	CERAMIC TILE BASE - BASE BID	4x24 BASE "WHITE"	A215 EMPRESS WHITE	4" X 24"	
CT-6	CERAMIC TILE BASE - BASE BID	4x24 BASE "TAN"			
CT-7	CERAMIC TILE - ALTERNATE	8x48 WOOD PLANK "BLACK WOOD GRAIN"	JAZZ AGE - JAZ04 - BILLIE	12" X 24"	LAY IN ASHLER PATTERN
CT-8	CERAMIC TILE - ALTERNATE	8x48 WOOD PLANK "WHITE WOOD GRAIN"	JAZZ AGE JAZ01 - LOUIS		LAY IN ASHLER PATTERN
CT-9	CERAMIC TILE - ALTERNATE	8x48 WOOD PLANK "GREY WOOD GRAIN"	JAZZ AGE JAZ03 - COUNT		
VB-1	VINYL BASE	CONFIRM WITH OWNER IF THEY WANT THIS	BLACK		
VCT	VINYL COMPOSITE TILE	CONFIRM WITH OWNER IF THEY WANT THIS	GRAY	12" X 12"	
PLAM-1	WILSONART	CABINET FRONTS - WOOD GRAIN	MATCH DOOR STAIN		CABINET FRONTS - COFFEE BAR
PLAM-2	WILSONART	CABINET FRONTS - WOOD GRAIN	MATCH DOOR STAIN		CABINET FRONTS - BREAK ROOM
SS-1	GRADE "B" SOLID SURFACE	ANTI-MICROBIAL WITH INTEGRAL BOWL SINK	BATHROOM - WHITE		BATHROOM COUNTERTOPS & SINKS
SS-2	GRADE "B" SOLID SURFACE	ANTI-MICROBIAL - WHITE	COFFEE BAR & BREAK ROOM - WHITE		COFFEE & BREAK ROOM COUNTERTOPS
BS-1	DALTILE	GLASS MOSAIC TILE - BACKSPLASH AT COFFEE BAR	EVENING MIXER GW28	1" x 1"	FULL HEIGHT & WIDTH OF BACK WALL
PT-1	BENJAMIN MOORE	INTERIOR LATEX - EGG SHELL - FIELD COLOR	OC-16 "WHITE DIAMOND"		FIELD COLOR & CEILING COLOR
PT-2	BENJAMIN MOORE	INTERIOR LATEX - FLAT - ACCENT COLOR	HC-45 "SHAKER BEIGE "		BREAK ROOM & REST ROOMS
PT-3	BENJAMIN MOORE	INTERIOR LATEX - FLAT - ACCENT COLOR	HC-43 "TYLER TAUPE"		
PT-4	BENJAMIN MOORE	INTERIOR LATEX - FLAT - ABOVE SOFFIT COLOR	BLACK		FULL HT. & WTH. @ WALL ABOVE SOFFIT
PT-5	SCUFFMASTER	VERSATILE METALICS	SMB015 SOLID METAL		FEATURE WALL & SOFFIT COLOR
TOILET PART.	ASI	SOLID PHENOLIC	GREY		
WOOD DOORS	VT INDUSTRIES	WHITE BIRCH	SERENGETI, SE15		SOLID CORE WOOD DOORS - TYP.
WINDOW SILLS	GRADE "B" SOLID SURFACE	ANTI-MICROBIAL - WHITE	WINDOW SILLS - WHITE	3" x VARIES	WINDOW SILLS - WHITE

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOORING	BASE FINISH	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
100A	VESTIBULE	SEALED CONC.	-	GLASS	GLASS	GLASS	GLASS	CLG-1	9'-0"	
100	LOBBY	CT-2	CT-4	PT-1	PT-1	PT-1	PT-1/GLASS	CLG-1	11'-6"	STACK BOND PATTERN
101	HALLWAY #1	CT-2	CT-4	PT-1	PT-1	PT-1/GLASS	PT-1/GLASS	CLG-1	11'-6"	STACK BOND PATTERN
102	WAITING AREA / RECEPTION	CT-2	CT-4	PT-1	PT-1	PT-1/GLASS	PT-1/GLASS	CLG-1/PT-2	11'-6"/8'-0"	RCPT. CLNG. @ 8'-0"
103	BODY SHOP OFFICES	CT-1	CT-5	PT-1	PT-1	PT-1/GLASS	PT-1	CLG-1	10'-0"	STACK BOND PATTERN
103A	CLOSET	CT-1	CT-5	PT-1	PT-1	PT-1	PT-1	CLG-1	10'-0"	STACK BOND PATTERN
104	HALLWAY #2	CT-2	CT-4	PT-1	PT-1	PT-1/GLASS	PT-1	CLG-1	9'-0"	STACK BOND PATTERN
105	OFFICE	CT-1	CT-5	PT-1	PT-1	PT-1	PT-1/GLASS	CLG-1	9'-0"	STACK BOND PATTERN
105A	CLOSET	CT-1	CT-5	PT-1	PT-1	PT-1	PT-1	CLG-1	9'-0"	STACK BOND PATTERN
106	WOMEN'S RESTROOM	CT-1/CT-2	CT-5	PT-1	CT-1/CT-2	PT-1	PT-1	PT-2	9'-0"	BRICK BOND PATTERN
107	MEN'S RESTROOM	CT-1/CT-2	CT-5	PT-1	CT-1/CT-2	PT-1	PT-1	PT-2	9'-0"	BRICK BOND PATTERN
108	BREAK ROOM	CT-3	CT-6	PT-1	PT-1	PT-1	PT-1	PT-2	9'-0"	BRICK BOND PATTERN
109	KEY VAULT STORAGE	CT-1	CT-5	PT-1	PT-1	PT-1	PT-1	CLG-1	10'-0"	STACK BOND PATTERN
110	USED CAR MANAGER	CT-1	CT-5	PT-1	PT-1	PT-1	PT-1	CLG-1	10'-0"	STACK BOND PATTERN
111	SALES AREA "A"	CT-1	CT-5	PT-1/GLASS	PT-1	-	-	CLG-1	10'-0"	STACK BOND PATTERN
112	SALES AREA "B"	CT-1	CT-5	-	-	PT-1	PT-1/GLASS	CLG-1	10'-0"	STACK BOND PATTERN
113	CUSTOMER SEATING/WORKSTATION	CT-1	-	-	-	-	-	CLG-1	11'-6"	STACK BOND PATTERN
114	SALES MANAGER	CT-1	CT-5	PT-1/GLASS	-	-	PT-1/GLASS	CLG-1	10'-0"	STACK BOND PATTERN
115	SALES AREA "C"	CT-1	CT-5	-	-	-	PT-1/GLASS	CLG-1	10'-0"	STACK BOND PATTERN
116	EXIST. PARTS STORAGE	EXIST.	EXIST.	PT-1	PT-1	PT-1	PT-1	EXIST.	EXIST.	
117	HALLWAY #3	EXIST.	EXIST.	PT-1	PT-1	PT-1	PT-1	EXIST.	EXIST.	
118	EXIST. JANITOR'S CLOSET	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	NO WORK
119	EXIST. OFFICE	EXIST.	EXIST.	PT-1	PT-1	PT-1	PT-1	EXIST.	EXIST.	PAINT ALL WALLS
120	EXIST. OFFICE	EXIST.	EXIST.	PT-1	PT-1	PT-1	PT-1	EXIST.	EXIST.	PAINT ALL WALLS
200	DATA CLOSET	3/4" PLYWD.	NO BASE	PT-1	PT-1	PT-1	PT-1	EXIST.	EXIST.	
201	NEW MEZZ. PARTS STG.	3/4" PLYWD.	NO BASE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	PROVIDE GUARDRAIL
202	EXIST MEZZ. PARTS STG.	EXIST.	-	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	



1 FLOOR PLAN FINISH PATTERN
SCALE: 1/8"=1'-0"

ROOM FINISH GENERAL NOTES

COORDINATION:

1. PORTIONS OF EXISTING BUILDING ARE CONSTRUCTED WITH NEW FINISHES OVER EXISTING CONCRETE SLAB. DRAINS ARE TO BE REMOVED AND CAPPED. OUTLETS, CONDUITS AND OTHER DEVICES ARE TO BE REMOVED. EXISTING SLOPED FLOORS AND RECESSES ARE ALL TO BE FILLED LEVEL AND SMOOTH ACCEPTABLE FOR THE MANUFACTURER OF THE NEW SCHEDULED FINISH.
2. AT ALL LOCATIONS WHERE CERAMIC TILE ADJOINS ANOTHER FLOORING MATERIAL PROVIDE CONTINUOUS SCHLUETER METAL EDGING TO PROTECT THE TILE EDGE FROM CRACKING. METAL EDGE TO MATCH TILE THICKNESS. FINISH TO BE SELECTED BY ARCHITECT.
3. NO "BLACK" ADHESIVES WILL BE ALLOWED FOR FLOORING MATERIALS.
4. LOCATE CONTROL JOINTS IN PORCELAIN OR CERAMIC TILE AS REQUIRED BY MANUFACTURER.
5. PROVIDE REDUCER OR TRANSITION STRIPS AT FLOORING MATERIALS OF DIFFERENT THICKNESS. PROVIDE SOLID VINYL REDUCER/TRANSITION STRIPS AT ALL CARPET/VTC, CARPET/CONC. & VCT/CONC. TRANSITIONS EQUAL TO JOHNSONITE.
6. ALL MATERIALS ON THIS PROJECT MUST BE INSTALLED BY LICENSED, EXPERIENCED AND/OR APPROVED INSTALLERS OF THAT PRODUCT/ MATERIAL AND A MINIMUM 5 YEARS EXPERIENCE IN GOOD STANDING BY THE MANUFACTURER OF THAT PRODUCT/ MATERIAL (NO EXCEPTIONS). ALL INSTALLERS MUST BE FULLY AWARE OF:
   - 6.1. THE MANUFACTURERS' INTENDED DESIGN LIMITATIONS/ PURPOSE AND USE OF THE MATERIAL BEING INSTALLED AND THE LATEST PUBLISHED INSTALLATION INSTRUCTIONS.
   - 6.2. SUBSTRATE REQUIREMENTS OR USE OF THE THIS MATERIAL IN CONJUNCTION WITH OTHER ADJACENT MATERIALS AND SUBSTRATES.
   - 6.3. NO PRODUCT IS TO BE ORDERED OR INSTALLED THAT DOES NOT MEET OR EXCEED THE LATEST PUBLISHED CONDITIONS FOR HANDLING & INSTALLATION BY THE MANUFACTURER.
   - 6.4. ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS, SUBSTRATES, OR FINAL INSTALLATION ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.

CONSTRUCTION PREPARATION:

7. ALL EXISTING CONCRETE SLABS ARE TO BE SANDED OR GROUND SMOOTH REMOVING ADHESIVES, MASTICS AND/ OR DEFORMITIES AS REQUIRED IN PREPARATION OF NEW SCHEDULED FLOOR FINISHES.
8. DUE TO VCT TILE AND CARPET FLOORS EASILY SHOWING DEVIATIONS, SUB-CONTRACTOR TO INSPECT SUBSTRATE CONDITIONS AND IDENTIFY ANY NEEDED CORRECTIONS PRIOR TO INSTALLATION OF ANY NEW MATERIALS TO ENSURE FLOOR IS SMOOTH AND LEVEL.
9. PROVIDE CRACK BRIDGING MEMBRANE BELOW ALL TILE FLOORS AT ALL CONTROL JOINTS, CONSTRUCTION JOINTS, EXISTING SLAB CRACKS OR OTHERS LOCATIONS REQUIRED BY FLOORING MANUFACTURER TO MAINTAIN WARRANTY OF SCHEDULED MATERIALS.
10. PATCH ALL WALLS TO REMAIN AS REQUIRED WHERE EXISTING DEVICES HAVE BEEN REMOVED. CMU WALLS ARE TO BE PATCHED WITH CMU AND MORTAR MATCHING EXISTING FINISH AND TEXTURE. GYPSUM BOARD WALL ARE TO BE PATCHED WITH STUDS, BOARD AND FINISH MATERIALS AS REQ'D.
11. FLOAT ALL FLOORS AS NECESSARY EACH SIDE OF DIFFERING FLOOR MATERIALS AND/ OR DIFFERENT THICKNESS TO PROVIDE A SMOOTH UNDETECTABLE TRANSITION AND ALIGNING TOP SURFACES OF EACH DIFFERING MATERIAL. INSTALL EDGING OR TRANSITION STRIPS PER DOCUMENTS.
12. PROVIDE WOOD BLOCKING OR STEEL FRAMING, PLATES, STRAPS, ETC. IN GYPSUM BOARD PARTITIONS FOR SUPPORT OF ALL WALL MOUNTED DEVICES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO WALL CABINETS, MARKER AND TACKBOARDS, HANDRAILS, WOOD TRIM, SHELVING, TOILET ACCESSORIES, MECHANICAL/ ELECTRICAL/ PLUMBING & FIRE PROTECTION EQUIPMENT AND DEVICES AS WELL AS OWNER FURNISHED ITEMS.
13. PORTIONS OF EXISTING SLOPING SLAB OR SLAB RECESSES TO REMAIN ARE TO BE FILLED WITH FLOOR LEVELING MATERIALS COMPATIBLE WITH NEW SCHEDULED FLOORING. ANY FLOOR DRAINS TO BE CAPPED OFF BELOW FLOOR PRIOR TO INSTALLATION OF NEW FLOOR FILLING.

KEYED FINISH PLAN NOTES

1. EXISTING CONDITIONS TO REMAIN - NO WORK.
2. ACCENT PAINT AT FEATURE WALLS CORNER TO CORNER, TOP OF BASE TO BOT OF SOFFIT. PROVIDE ALTERNATE TO OMIT PAINT AND PREP FOR GRAPHIC WALL COVERING PROVIDED AND INSTALLED BY OWNER.
3. GLASS MOSAIC TILE BS-1 ON COFFEE BAR BACK WALL. FULL WIDTH OF BACK WALL AND ABOVE THE COUNTER BACKSPLASH TO BOTTOM OF SOFFIT ABOVE.
4. FEATURE WALL COLOR PT-5 ON WALL RETURNS WHERE SHOWN AND SOFFIT ABOVE AS SHOWN ON DETAIL 2/ A6.0.

STATE OF MISSOURI
BRIAN MARK ZWICK
NUMBER AR 005200
REGISTERED ARCHITECT
04.15.21

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USED CAR BUILDING RENOVATIONS

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PERMIT SET	2-22-2021
△ COUNTY MEP REVIEW	04/12/2021

PROJECT NUMBER:
20034.00

FLOOR PLAN FINISH PATTERN AND SCHEDULE

A9.2

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STRUCTURAL GENERAL NOTES

CONTRACTORS ARE RESPONSIBLE FOR FIELD LAYOUT AND SHOP DETAILING. THE CONTRACTORS MUST VERIFY AND COORDINATE DIMENSIONS AND DETAILS SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PROMPTLY. CONTRACTOR SHALL NOT PROCEED WITH FABRICATION, ERECTION, CONSTRUCTION OF THAT PORTION OF THE PROJECT PRIOR TO RESOLUTION OF DISCREPANCIES FROM THE ARCHITECT/ENGINEER.

DETAILS AND SECTIONS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE DETAILS OR SECTIONS ARE NOT INDICATED, THEY SHALL BE THE SAME AS OTHER SIMILAR CONDITIONS.

THE CONSTRUCTION DOCUMENTS ARE PREPARED BASED UPON THE STRUCTURE OF COMPLETED CONSTRUCTION. CONTRACTORS ARE RESPONSIBLE FOR THE STRUCTURAL STABILITY AT ALL INTERMEDIATE STAGES OF THE STRUCTURE DURING CONSTRUCTION PROCESS.

CONTRACTORS SHALL ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATIONS OF CONSTRUCTION FOR:

1. FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
2. FIELD LAYOUT, SHOP DETAILING, VERIFYING AND COORDINATING DIMENSIONS AND DETAILS SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, CIVIL, AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.
3. DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS.
4. FABRICATION PROCESSES, MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, INCLUDING EXCAVATION, SHORING, SCAFFOLDS, TEMPORARY BRACING, TEMPORARY CLIPS AND LUGS, ERECTION, TEMPORARY STRUCTURAL MEMBERS REQUIRED FOR SAFE ERECTION PROCEDURES, FORMWORK, AND ETC.
5. COORDINATION OF THE WORK OF ALL TRADES, SAFE WORKING CONDITIONS ON THE JOB SITE, AND COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL CODE REQUIREMENTS INCLUDING OSHA REQUIREMENTS.

CONTRACTORS SHALL REPORT ANY VARIATION IN THE FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS TO THE ARCHITECT PROMPTLY AND WORK SHALL NOT PROGRESS UNTIL WRITTEN PERMISSION IS OBTAINED FROM THE ARCHITECT.

DESIGN CRITERIA

1. BUILDING CODE: ICC Existing International Building Code, 2015 Edition
2. DESIGN LOADS:
   - A. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.
   - B. GRAVITY LOAD:
     - 1. ROOF:
       - a. DEAD LOAD: 25 PSF (INCLUDES SELF WEIGHT OF STRUCTURE)
       - b. LIVE LOAD: EITHER OF THE FOLLOWING (2) LOAD CONDITIONS WHICH CONTROL THE DESIGN OF THE COMPONENT.
         - 1. 20 PSF GROUND SNOW PLUS DRIFT WHERE APPLICABLE
         - 2. 20 PSF LIVE LOAD
   - C. SNOW LOAD:
     - 1. GROUND SNOW LOAD (Pg)....................20.0 PSF
     - 2. SNOW EXPOSURE FACTOR (Ce)....................0.9
     - 3. ROOF THERMAL FACTOR (Ct)....................1.0
     - 4. SNOW LOAD IMPORTANCE FACTOR (I)....................1.0
   - D. WIND LOAD:
     - 1. ULTIMATE DESIGN WIND SPEED....................115 MPH
     - 2. EXPOSURE....................C
     - 3. ADJUSTMENT FACTOR FOR BLDG. HT. AND EXPOSURE....1.16
     - 4. WIND IMPORTANCE FACTOR (I)....................1.0
     - 5. MAIN WIND FORCE RESISTING PRESSURES
       - a. END ZONE WALL....................12.8PSF
       - b. END ZONE ROOF....................-13.8PSF
       - c. INTERIOR ZONE WALL....................8.5 PSF
       - d. INTERIOR ZONE ROOF....................-8.8PSF
     - 6. NET UPLIFT....................15.0 PSF
     - 7. COMPONENT WIND LOAD....................25.0 PSF
   - E. SEISMIC LOAD(FOR ENCLOSED CANOPY BLDG):
     - 1. SEISMIC BASE SHEAR (V)....................0.0842W
     - 2. Ss....................0.480
     - 3. S1....................0.18
     - 4. RESPONSE MODIFICATION FACTOR (R)....................2.5
     - 5. SEISMIC SITE CLASSIFICATION....................D
     - 6. RISK CATEGORY II
     - 7. SEISMIC DESIGN CATEGORY....................D
     - 8. SEISMIC DEFLECTION AMPLIFICATION FACTOR (Cd)....2.5
     - 9. DESIGN PER IBC 2015 SECTION 1617.4 (EQUIVALENT LATERAL FORCE PROCEDURE)
     - 10. BUILDING STEEL FRAMES WITH LIGHT FRAMED WALLS WITH SHEAR PANEL.

SHOP DRAWING SUBMITTAL

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ITEMS AS REQUIRED PER CONSTRUCTION DOCUMENTS.
2. SUBMIT TWO SETS OF HARD COPIES AND ONE SET OF REPRODUCIBLES. ONE SET OF REDLINED HARD COPY WILL BE RETURNED TO THE ARCHITECT AND ONLY THE REPRODUCIBLE WILL BE RETURNED TO THE CONTRACTOR. IF NO REPRODUCIBLE IS SUBMITTED ONLY TWO SETS OF REDLINED DRAWINGS WILL BE RETURNED.
3. ALLOW AMPLE TIME FOR SHOP DRAWINGS REVIEW PROCESS. DEPENDING ON THE AMOUNT OF SHOP DRAWINGS AND THE COMPLEXITY OF THE PROJECT, THE NORMAL REVIEW TIME IS TEN WORKING DAYS FROM THE DAY AFTER THE STRUCTURAL ENGINEER RECEIVES THE DRAWINGS. THIS DOES NOT INCLUDE SATURDAYS, SUNDAYS, HOLIDAYS AND THE DAY DRAWINGS ARE RECEIVED.
4. THE REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR JOB SITE OBSERVATIONS FOR:
   - A. FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS
   - B. FIELD LAYOUT, SHOP DETAILING, VERIFYING AND COORDINATING DIMENSIONS AND DETAILS SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, CIVIL, AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT
   - C. DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS
   - D. FABRICATION PROCESSES, MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, INCLUDING EXCAVATION, SHORING, SCAFFOLDS, TEMPORARY BRACING, TEMPORARY CLIPS AND LUGS, ERECTION, TEMPORARY STRUCTURAL MEMBERS REQUIRED FOR SAFE ERECTION PROCEDURES, FORMWORK, AND ETC.
   - E. COORDINATION OF THE WORK OF ALL TRADES, SAFE WORKING CONDITIONS ON THE JOB SITE, AND COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL CODE REQUIREMENTS INCLUDING OSHA REQUIREMENTS.

SPECIAL INSPECTIONS

1. OWNER IS RESPONSIBLE FOR THE COSTS OF HAVING SPECIAL INSPECTIONS COMPLETED BY AN APPROVED AND QUALIFIED INSPECTION OR TESTING AGENCY. OWNER HAS OPTION TO DESIGNATE THE GENERAL CONTRACTOR AS COORDINATOR AND SCHEDULER OF ALL SPECIAL INSPECTIONS.
2. SPECIAL INSPECTIONS SHALL BE PERFORMED PER CHAPTER 17 OF THE 2015 IBC.
3. THE INSPECTOR SHALL BE APPROVED QUALIFIED INSPECTION AND TESTING AGENCY ACCEPTABLE TO OWNER.
4. INSPECTION SHALL BE PERFORMED ON THE FOLLOWING AND ADDITIONAL INSPECTIONS REQUIRED BY THE BUILDING CODE.
   - A. FIELD INSPECTION FOR SITE PREPARATION
     - 1. PRIOR TO FILL PLACEMENT, SITE SHALL BE INSPECTED FOR PREPARATION IN ACCORDANCE WITH THE PROJECT SOILS REPORT.
     - 2. DURING FILL PLACEMENT AND COMPACTION, VERIFY MATERIAL IS APPROPRIATE, MAXIMUM LIFT THICKNESSES ARE IN ACCORDANCE WITH THE PROJECT SOILS REPORT.
     - 3. INSPECTOR SHALL VERIFY THAT IN PLACE DENSITY OF COMPACTED FILL COMPLIES WITH THE PROJECT SOILS REPORT.
   - B. FIELD INSPECTION OF CONCRETE
     - 1. REINFORCING PLACEMENT, CONCRETE PLACING AND CONCRETE CURING METHODS.
     - 2. WELDING OF REINFORCING STEEL.
     - 3. CONCRETE FORMWORK FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND ACI 318 SECTION 7.4, 7.5,7.6 ,7.7.
     - 4. DURING CONCRETING THE FOLLOWING INSPECTIONS SHALL BE MADE:
       - a. EVALUATION OF CONCRETE STRENGTH (ACI 318 SECTION 5.6).
       - b. INSPECTION FOR PROPER MIX PROPORTIONS AND MIXING (ACI 318 CHAPTER 4, AND SECTIONS 5.2, 5.3, 5.4, AND 5.8.
       - c. INSPECTION FOR PROPER PLACING TECHNIQUES (ACI SECTIONS 5.19 AND 5.10).
       - d. INSPECTION FOR MAINTENANCE OF PROPER CURING TEMPERATURES AND TECHNIQUES (ACI SECTIONS 5.11, 5.12, 5.13).
   - C. FIELD INSPECTION FOR MASONRY CONSTRUCTION
     - 1. ALL MATERIALS (MASONRY UNITS, SAND, MORTAR, REINFORCING AND ETC.) SHALL BE INSPECTED PER ACI 530.1 SECTION 2.3.
     - 2. MASONRY STRENGTH PER ACI 530.1 SECTION 1.4
     - 3. CONSTRUCTION OPERATIONS:
       - a. PROPORTIONING, MIXING CONSISTENCY AND GROUT PER ACI 530.1 SECTION 2.6.
       - b. APPLICATION OF MORTAR AND GROUT; INSTALLATION OF MASONRY UNITS PER ACI 530.1 SECTIONS 3.2 AND 3.5.
       - c. CONDITION, SIZE, LOCATION AND SPACING OF REINFORCEMENT PER ACI 530.1 CHAPTER 8.
       - d. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F.) OR HOT WEATHER (TEMPERATURE ABOVE 100 DEGREES F.) PER ACI 530.1 SECTION 1.8.
       - e. ANCHORAGE PER ACI 530.1 SECTIONS 4.2 AND 5.14.
     - 4. INSPECTION OF WELDING OF REINFORCEMENT, GROUTING, CONSOLIDATION AND RECONSOLIDATION FOR BUILDINGS WITH A SEISMIC PERFORMANCE CATEGORY C OR HIGHER.
   - D. STEEL FABRICATOR SHOP INSPECTION
     - 1. ALL STRUCTURAL STEEL FOR MATERIAL IDENTIFICATION, AND CONFORMANCE TO ASTM SPECIFICATION.
     - 2. SHOP INSTALLED BOLTS PER LATEST RCSC'S "SPECIFICATION FOR STRUCTURAL BOLTS AND JOINTS USING A325 OR A490 BOLTS", AND CONFORMANCE TO PLANS.
     - 3. WELD IN CONFORMANCE WITH AWS SPECIFICATIONS. FOR BUILDING IN SEISMIC PERFORMANCE CATEGORY C OR HIGHER, ALL COMPLETE PENETRATION GROOVE WELDS SHALL BE ULTRASONICALLY TESTED OR INSPECTED BY OTHER APPROVED METHODS. COLUMN SPLICE WELDS SHALL BE ULTRASONICALLY TESTED OR INSPECTED BY OTHER APPROVED METHODS.
     - 4. FABRICATION AND QUALITY CONTROL PROCEDURES ALONG WITH IMPLEMENTATION PROCEDURES. SPECIAL INSPECTIONS OF STRUCTURAL SHOP IS NOT REQUIRED IF FABRICATOR MAINTAINS AN AGREEMENT WITH AN APPROVED INDEPENDENT INSPECTION OR QUALITY CONTROL AGENCY.
   - E. FIELD INSPECTION FOR STRUCTURAL STEEL
     - 1. ALL BOLTED CONNECTIONS PER RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS".
     - 2. ALL WELDED CONNECTIONS INCLUDING BUT NOT LIMITED TO STEEL BEAMS, COLUMNS, JOIST BEARING SEATS, STEEL ANGLES, BRACES, BRIDGING, MISCELLANEOUS STEEL CONNECTIONS.
     - 3. STEEL FRAME FOR COMPLIANCE VERIFICATION WITH DETAILS SHOWN ON APPROVED CONSTRUCTION DOCUMENTS.

FOUNDATION SOIL CONDITION AND PREPARATION

1. CONTINUOUS WALL FOOTINGS HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. COLUMN FOOTINGS HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. THE SOIL BEARING PRESSURES ARE BASED ON ABOVE NOTED GEOTECHNICAL REPORT AND SHALL BE VERIFIED AT THE SITE BY A QUALIFIED GEOTECHNICAL ENGINEER BEFORE ANY FOUNDATION WORK BEGINS.
2. BOTTOM OF ALL FOOTINGS MUST EXTEND 1'-6" INTO PRESENT GRADE OR BE ON "ENGINEERED FILL". EXTERIOR WALL/COLUMN FOOTINGS MUST EXTEND 2'-6" BELOW PROPOSED GRADE.

CONCRETE

1. STANDARDS
   - A. ACI 318-08 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE
   - B. ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
   - C. ACI 315-99 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
   - D. ACI 347R-04 GUIDE TO FORMWORK FOR CONCRETE
   - E. ACI 304R-00 GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
   - F. ACI 309R-05 GUIDE FOR CONSOLIDATION OF CONCRETE
   - G. ACI 308-01 STANDARD PRACTICE FOR CURING CONCRETE
   - H. ACI 306R-10 COLD WEATHER CONCRETING
   - I. ACI 305R-10 HOT WEATHER CONCRETING
   - J. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE
2. ALL DETAILING, FABRICATION, AND ERECTION FOR REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE ACI "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"(ACI 315-92).
3. MINIMUM CLEAR CONCRETE COVER OVER REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, SUCH AS BOTTOM AND SIDES OF FOOTINGS....................3"
   - B. CONCRETE EXPOSED TO EARTH OR WEATHER, SUCH AS TOP OF FOOTINGS, FORMED FOUNDATION STEM WALLS, AND EXTERIOR FACE OF CONCRETE WALLS....................2"
   - C. CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH GROUND:
     - 1. SLABS, WALLS, JOISTS, INCLUDING INTERIOR FACE OF BASEMENT WALLS....................1"
     - 2. BEAMS, COLUMNS FOR PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS....................1 1/2"
   - D. SLAB-ON-GRADE....................FROM TOP SLAB SURFACE 1 1/2" TO A MAXIMUM OF 2"
4. THE MINIMUM CLEAR CONCRETE REQUIREMENTS APPLIES TO THE LONGITUDINAL FACE OF THE REINFORCEMENT AS WELL AS THE ENDS OF THE REINFORCEMENTS.
5. ALL POURED IN PLACE CONCRETE SHALL BE READY-MIXED AND HAULED IN ACCORDANCE WITH ASTM C94 WITH THE DELETION OF REFERENCE FOR ALLOWING ADDITIONAL WATER TO BE ADDED TO BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP. ADDITION OF WATER TO THE BATCH WILL NOT BE PERMITTED.
6. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNLESS NOTED OTHERWISE.
7. PREPARE CONCRETE DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE BY LABORATORY TRIAL BATCH METHOD AS SPECIFIED IN ACI 301 AND ACI 318. USE AN INDEPENDENT TESTING FACILITY ACCEPTABLE TO ARCHITECT FOR PREPARING AND REPORTING PROPOSED MIX DESIGNS. THE TESTING FACILITY SHALL NOT BE THE SAME AS USED FOR FIELD QUALITY CONTROL TESTING, UNLESS ACCEPTABLE TO ARCHITECT. SUBMIT CONCRETE MIX DESIGNS AND WRITTEN TEST REPORTS OF EACH PROPOSED MIX OF CONCRETE TO ARCHITECT AND STRUCTURAL ENGINEER AT LEAST FIFTEEN (15) DAYS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
8. ALL CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF f'c=4000 PSI AT 28 DAYS AND MEET FOLLOWING REQUIREMENTS:
   - A. A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD.
   - B. FLY ASH AND SLAG NOT TO EXCEED 25% OF CEMENT REQUIREMENT. OMIT FLY ASH FOR INTERIOR SLAB ON GRADE AND WHERE PENETRATING SEALER IS USED.
   - C. MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO NOT TO EXCEED 0.45
   - D. USE WATER-REDUCING ADMIXTURE IN CONCRETE PER ASTM C494 TYPE A OR D AS REQUIRED FOR PLACEMENT AND WORKABILITY.
   - E. CONCRETE SLUMP AT POINT OF PLACEMENT TO BE NOT LESS THAN 2" AND NOT GREATER THAN 4".
   - F. USE AIR-ENTRAINING ADMIXTURES IN CONCRETE PER ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.
   - G. ADD AIR-ENTRAINING ADMIXTURES AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING FOLLOWING LISTED TOTAL AIR CONTENTS:
     - 1. ALL EXTERIOR EXPOSED CONCRETE, SUCH AS CONCRETE FOR ALL FOUNDATION WORK, EXTERIOR WALLS AND EXTERIOR FLAT WORK....................6% PLUS OR MINUS 1.0%
     - 2. ALL INTERIOR EXPOSED CONCRETE, UNLESS NOTED OTHERWISE....................4% PLUS OR MINUS 0.5%
     - 3. FLAT WORK TO HAVE SMOOTH FINISH SUCH AS SLAB-ON-GRADE AND ELEVATED STRUCTURAL SLAB CONSTRUCTION....................2% PLUS OR MINUS 0.5% (AIR-ENTRAINING ADMIXTURE MAY NOT BE NEEDED TO ACHIEVE THE REQUIRED AIR CONTENT FOR FLAT WORK)
9. PORTLAND CEMENT SHALL BE ASTM 150, TYPE I.
10. FINE AGGREGATE SHALL BE CLEAN, HARD, DURABLE AND FREE OF DELETERIOUS SUBSTANCES AND CONFORM TO ASTM C33.
11. COARSE AGGREGATE SHALL BE CLEAN, HARD AND DURABLE WITHOUT FLAT OR ELONGATED PIECES AND SHALL CONFORM TO ASTM C33 #67.
12. WATER SHALL BE POTABLE.
13. FORMS SHALL BE PLYWOOD IN GOOD CONDITION. APPLY A FORM RELEASE AGENT TO ALL FORMS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
14. MAKE ONE SET OF FOUR CYLINDERS FOR EACH MAJOR POUR OR EACH 50 CUBIC YARDS. TEST ONE AT 7 DAYS AND TWO AT 28 DAYS PER ASTM C39. KEEP ONE IN RESERVE. ALL TESTS PAID BY CONTRACTOR. SUBMIT ALL TEST REPORTS TO THE ARCHITECT AND ENGINEER.
15. MILL TEST REPORTS FOR REINFORCING BARS AND CEMENT ARE ACCEPTABLE.
16. REINFORCING BARS ARE TO BE ASTM A615-GRADE 60 DEFORMED STEEL, U.N.O. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED WIRE FABRIC MUST LAP 2" AT SIDE AND 6" AT ENDS AND BE WIRED TOGETHER.
17. THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND STRUCTURAL DRAWINGS MUST BE REFERRED TO FOR ALL FLOOR REQUIREMENTS AND THE VARIOUS TRADES ARE RESPONSIBLE FOR THE PLACING OF SLEEVES, OUTLETS BOXES, ANCHORS, ETC., THAT MAY BE REQUIRED.
18. DOWELS IN WALL FOOTINGS TO BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS, U.N.O. DOWELS MUST BE IN POSITION BEFORE PLACING CONCRETE, PUSHING BARS INTO FRESHLY POURED CONCRETE IS NOT ACCEPTABLE.
19. ALL BARS SHALL LAP A MINIMUM OF 48 BAR DIAMETERS WITH 2'-0" MINIMUM LAP. ANY SPLICE OF BARS OTHER THAN SHOWN ON PLANS MUST HAVE PRIOR APPROVAL OF THE STRUCTURAL ENGINEERS.
20. ALL STRUCTURAL STEEL MUST BE PROTECTED BY MINIMUM 3" OF CONCRETE WHERE EARTH WOULD OTHERWISE BE IN CONTACT WITH STEEL.
21. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
   - A. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS, GRADE BEAMS, AND FOOTINGS TO MATCH HORIZONTAL REINFORCING.
   - B. PROVIDE #4 SLAB DOWELS AT 8" CENTERS AT DOORS UNLESS NOTED OTHERWISE.
   - C. PROVIDE (3) #4 TIES AT 2" O.C. AT TOP OF ALL CONCRETE PIERS AND REMAINDER AT 12" O.C. MAXIMUM.
   - D. PROVIDE (1) #4 x 6'-0" LONG BAR IN SLABS ON GRADE AT ALL REENTRANT CORNERS.
22. CONCRETE WALLS SHALL HAVE CONSTRUCTION JOINTS NOT FURTHER THAN 100'-0" APART. RETAINING WALL CONSTRUCTION/EXPANSION JOINTS SHALL BE SPACED AT A MAXIMUM OF 25'-0" O.C.
23. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR INSPECTION OF REBAR PLACEMENT.
24. REINFORCING SUPPLIER, DETAILER AND CONTRACTOR SHALL COORDINATE AND FURNISH ALL REINFORCING SUPPORTS DURING CONSTRUCTION (I.E. STANDEES, TIES ETC. TO SECURE REINFORCING FOR PLACING CONCRETE)
25. SLABS ON GRADE SHALL HAVE CONTROL/CONSTRUCTION/EXPANSION JOINTS AT MAXIMUM 15'-0" O.C EACH DIRECTION. EXTERIOR SLAB ON GRADES (SUCH AS SIDEWALKS) TO HAVE CONTROL/CONSTRUCTION/EXPANSION JOINTS AT MAXIMUM 7'-6" O.C. UNLESS NOTED OTHERWISE.
26. ALL WATERSTOPS SHALL BE 6" PVC DOUBLE BULB TEE CONSTRUCTION UNLESS NOTED OTHERWISE. CONTRACTOR HAS OPTION TO SUBSTITUTE SELF EXPANDING WATERSTOP MATERIAL (I.E.: VOLCLAY).
27. WHEN FOUNDATION WALLS SPAN FROM GROUND FLOOR TO FIRST FLOOR, BOTH GROUND FLOOR SLAB AND FIRST FLOOR SLAB MUST BE IN PLACE BEFORE BACKFILL IS PLACED UNLESS ADEQUATE SHORING IS PLACED PRIOR TO BACKFILL.
28. EXCAVATION FOR SCREEN WALLS, DUMPSTER ENCLOSURES, ETC. AND FOR TOE OF RETAINING WALL FOOTINGS MUST BE HAND CLEANED AND CONCRETE PLACED AGAINST THE EARTH FOR FULL DEPTH OF FOOTING.
29. WHEN EXTERIOR GRADE IS EQUAL TO OR MORE THAN 2'-6" BELOW FINISHED FLOOR ELEVATION THE FOUNDATION STEM WALL IS TO BE SHORED PRIOR TO INTERIOR BACKFILL.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL DETAILS SHALL COMPLY WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
   - W's & WT's....................A992 (Fy=50 KSI)
   - CHANNELS, ANGLES, PLATES, ETC....................A36
   - HOLLOW STRUCTURAL SECTIONS (HSS)....................A500, GRADE B (Fy=46 KSI)
   - STRUCTURAL STEEL PIPE....................A53, GRADE B (Fy=35 KSI)
   - ANCHOR RODS....................F1554, GRADE 36
   - THREADED ROD....................A36
   - WELDING ELECTRODES....................E70XX
   - CONNECTION BOLTS....................A325N
2. THE FOLLOWING INFORMATION SHALL APPEAR ON ALL SHOP DRAWINGS: PROJECT NAME, PROJECT LOCATION, CONTRACTOR NAME, FABRICATOR NAME, MATERIAL SPECIFICATION, AND BOLTS DESIGNATION. IF NOT PROPERLY LISTED, SHOP DRAWINGS WILL BE RETURNED AS REVISE AND RESUBMIT.
3. ALL STEEL CONNECTIONS NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS SHALL BE DESIGNED BY LICENSED STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE. STEEL FABRICATOR SHALL SUBMIT SIGNED AND SEALED CONNECTION CALCULATIONS WITH THE SHOP DRAWING SUBMITTAL. SHOP DRAWING REVIEW WILL NOT BE STARTED UNTIL ENGINEER OF RECORD RECEIVES SIGNED AND SEALED CONNECTION DESIGNS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE OR LIABLE FOR CONNECTIONS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS. THE TYPICAL CONNECTION DETAILS SHOWN ARE FOR REFERENCE AND GUIDANCE IN THE CONNECTION DESIGNS.
4. ALL STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 50 PERCENT OF THE ALLOWABLE BEAM LOAD SHOWN IN ASIC ALLOWABLE UNIFORM LOAD IN KIPS FOR BEAMS LATERALLY SUPPORTED FOR THE APPROPRIATE STEEL YIELD STRENGTH. THE TABLE IS SHOWN ON PAGE 2-37 THRU 2-140 AISC "MANUAL FOR STEEL CONSTRUCTION" (NINTH EDITION). UNLESS LOAD IS SPECIFIED ON STRUCTURAL DRAWING. MINIMUM CONNECTION DESIGN SHALL BE 6 KIPS AS REQUIRED BY AISC "MANUAL OF STEEL CONSTRUCTION" (NINTH EDITION). CONNECTIONS SHALL NOT BE DESIGNED USING BOLTS AND WELDING SHARING LOADS.
5. FOR QUALITY ASSURANCE, ALL DRAWINGS, CONNECTION DESIGN, FABRICATION, DELIVERY, AND STORAGE SHALL FOLLOW THE APPLICABLE PROVISIONS OF THE FOLLOWING SPECIFICATIONS AND DOCUMENTS:
   - A. AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDING FOR ALLOWABLE STRESS DESIGN.
   - B. RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
   - C. WELDING SHALL BE PERFORMED TO COMPLY WITH APPLICABLE PROVISIONS OF AWS D1.1 "STRUCTURAL WELDING CODE FOR STEEL BUILDINGS". CONTRACTOR SHALL SUBMIT EVIDENCE THAT EACH WELDER HAS SATISFACTORILY PASSED AWS QUALIFICATION TESTS FOR THE WELDING PROCESSES INVOLVED AND, IF PERTINENT, AND HAVE BEEN RECERTIFIED AS REQUIRED BY AWS. CERTIFICATION SHALL BE FOR BOTH SHOP WELDERS AND FIELD WELDERS.
6. STRUCTURAL STEEL SHALL BE PRIME PAINTED UNLESS NOTED OTHERWISE.
7. ALL STRUCTURAL STEEL LINTELS AND STRUCTURAL STEEL EXPOSED TO MOISTURE AND/OR EXTERIOR CONDITIONS ARE TO BE GALVANIZED.
8. ALL STEEL SHALL BE FABRICATED AND ASSEMBLED IN THE SHOP TO THE GREATEST EXTENT POSSIBLE. FABRICATION SHALL BE PER THE FOLLOWING AISC SPECIFICATION AND SHOP DRAWINGS:
   - A. THE FABRICATION TOLERANCES SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES FOR STRUCTURAL STEEL".
   - B. NON-HIGH STRENGTH BOLTS SHALL BE INSTALLED AND TIGHTENED AS BY TURN-OF-THE-NUT METHOD
   - C. HIGH STRENGTH BOLTS SHALL BE SHOP INSTALLED WHERE APPLICABLE PER RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS SHALL BE TIGHTENED TO PROPER TORQUE OR USE LOAD INDICATOR WASHERS OR TWIST OFF BOLTS
   - D. ALL WELDED CONNECTIONS SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE, QUALITY OF WELDS AND METHODS USED IN CORRECTING WELDING WORK.
   - E. ALL FIELD BOLTS SHALL BE INSTALLED WITH LOAD INDICATOR WASHERS OR USE TWIST OFF BOLTS.
9. ALL STRUCTURAL STEEL SHALL BE ERECTED ACCURATELY IN LOCATIONS AND TO ELEVATIONS INDICATED AND ACCORDING TO ASIC SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR SAFELY ERECTING STEEL SKELTON TRUE AND PLUMB FOR FULL HEIGHT. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BOLTING, SEAT LUGS, CLIPS AND BRACING AS REQUIRED TO SAFELY CARRY ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED TO INCLUDE EQUIPMENT AND OPERATION OF THE SAME. INDIVIDUAL COLUMNS SHALL BE BRACED BEFORE CONNECTIONS ARE MADE. BRACING SHALL REMAIN IN PLACE AS LONG AS REQUIRED FOR SAFETY. CONTRACTOR SHALL NOT PERFORM FINAL BOLT TIGHTENING OR WELDING UNTIL STRUCTURE STIFFENED BY THESE CONNECTIONS HAS BEEN ERECTED AND ALIGNED PER ASIC PROCEDURES.
10. CONTRACTOR SHALL MAINTAIN AISC ERECTION TOLERANCES AT ALL STAGES OF STEEL ERECTION PER AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
11. CONTRACTOR SHALL INSTALL AND TIGHTEN ALL HIGH STRENGTH BOLTS ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
12. CONTRACTOR SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.
13. CONTRACTOR SHALL ENGAGE AN INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM SHOP AND FIELD INSPECTIONS AND TESTS. TESTING AGENCY SHALL SUBMIT WRITTEN REPORTS ABOUT INSPECTIONS AND TESTS TO THE ARCHITECT/ENGINEER OF RECORD. TESTING AGENCY SHALL INSPECT THE FOLLOWING:
   - A. VISUAL AND MECHANICAL INSPECT WELDS ACCORDING TO AWS D1.1 PROCEDURES.
   - B. INSPECT MINIMUM OF 25% OF THE BOLTS IN A CONNECTION. IF BOLTS FAIL INCREASE INSPECTION TO 100% INSPECTIONS SHALL BE PERFORMED PER RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 AND A490 BOLTS".
14. CONTRACTOR SHALL CORRECT ALL DEFICIENCIES INDICATED IN THE TESTING AGENCY'S REPORT. THE CORRECTION SHALL BE RE-INSPECTED BY THE TESTING AGENCY. CORRECTION MAY REQUIRE REMOVAL AND REPLACEMENT OF DEFECTIVE MATERIAL AND CONNECTIONS.
15. ALL BEAMS AND LINTELS BEARING ON MASONRY NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS SHALL HAVE (2)-3/4" x 1'-9" ANCHOR BOLTS AT ENDS AND BEAR A MINIMUM OF 8" ON FULLY GROUTED MASONRY CELL TO THE FOUNDATION. PROVIDE 2 1/2" HORIZONTAL SLOTS IN LINTEL PARALLEL TO LINTEL AND BOND BREAKER BETWEEN LINTEL AND BEARING PLATE. ANCHOR BOLTS SHALL BE CENTERED IN 2 1/2" HORIZONTAL SLOTS. CLEAN HORIZONTAL SLOTS OF ANY DEBRIS, GROUT, MORTAR, ETC. NUTS SHALL ONLY BE HAND TIGHTENED TO ALLOW HORIZONTAL MOVEMENT PARALLEL TO THE LINTEL.

STEEL JOISTS

1. THIS SECTION COVERS THE FOLLOWING
   - A. K-SERIES OPEN-WEB STEEL JOISTS.
   - B. KCS- SERIES OPEN-WEB STEEL JOISTS.
   - C. LH-SERIES LONG SPAN STEEL JOISTS.
   - D. JOIST GIRDERS.
   - E. JOIST ACCESSORIES.
2. ALL JOISTS AND JOIST GIRDERS SHALL BE ANCHORED TO STEEL, CONCRETE AND MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS. WHEN NOT INDICATED, COMPLY WITH SJI REQUIREMENTS.
3. ALL JOISTS AND JOIST GIRDERS SHALL BEAR ON A STEEL BEARING PLATE AS SHOWN ON THE STRUCTURAL DRAWINGS.
4. JOIST MANUFACTURER SHALL ENGINEER, FABRICATE AND ERECT JOISTS AND CONNECTIONS TO WITHSTAND THE DESIGN LOADS WITHIN THE FOLLOWING LIMITS AND CONDITIONS:
   - A. DESIGN LOADS LISTED IN DESIGN CRITERIA ABOVE AND FOR ALL LOADS SHOWN ON ROOF OR FLOOR PLANS.
   - B. DESIGN JOISTS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
     - 1. FLOOR JOISTS: TOTAL LOAD VERTICAL DEFLECTION OF L/360 OF THE SPAN.
     - 2. ROOF JOISTS: TOTAL LOAD VERTICAL DEFLECTION OF L/240 OF THE SPAN.
     - 3. ROOF JOISTS: LIVE LOAD VERTICAL DEFLECTION OF L/360 OF THE SPAN.
   - C. ROOF JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR NET UPLIFT LOAD OF 15 PSF.
5. JOIST MANUFACTURER SHALL HAVE QUALIFIED PROFESSIONAL ENGINEER PERFORM THE DESIGN. PROFESSIONAL ENGINEER SHALL PREPARE DESIGN CALCULATIONS, SHOP DRAWINGS AND OTHER STRUCTURAL DATA FOR STEEL JOISTS.
6. JOIST MANUFACTURER SHALL SUBMIT SHOP DRAWINGS, JOIST DATA AND ACCESSORY DATA TO PROJECT STRUCTURAL ENGINEER FOR REVIEW PER SHOP DRAWING SUBMITTAL REQUIREMENTS LISTED ABOVE.
7. SHOP DRAWINGS SHALL HAVE THE FOLLOWING MINIMUM INFORMATION:
   - A. LAYOUT SHOWING MARK NUMBER, TYPE, LOCATION AND SPACING OF JOISTS.
   - B. JOIST ACCESSORIES
   - C. SPLICE AND CONNECTION DETAILS
   - D. BRIDGING
   - E. TEMPORARY AND PERMANENT BRACING REQUIREMENTS
   - F. ATTACHMENTS TO OTHER MATERIALS
   - G. REQUIREMENTS FOR BEARING PLATES WHEN SUPPORTED ON CONCRETE OR MASONRY.
   - H. MATERIAL CERTIFICATES SIGNED BY JOIST MANUFACTURER CERTIFYING THAT JOISTS COMPLY WITH THE LATEST SJI'S SPECIFICATIONS.
   - I. JOIST CUT LIST SHOWING LENGTHS, JOIST TYPE, SIZE AND SPECIAL LOADS.
   - J. MILL CERTIFICATES SIGNED BY BOLT MANUFACTURER CERTIFYING THEIR PRODUCTS COMPLY WITH SPECIFIED REQUIREMENTS.
8. ERECTOR SHALL PROVIDE WELDER CERTIFICATES CERTIFYING WELDERS COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF AWS D1.1.
9. JOIST MANUFACTURER SHALL BE A CERTIFIED SJI MANUFACTURER TO MANUFACTURE JOISTS CONFORMING TO SJI STANDARD SPECIFICATION AND LOAD TABLES.
10. JOIST MANUFACTURER SHALL COMPLY WITH ALL RECOMMENDATIONS OF SJI'S "STANDARD SPECIFICATION LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS" APPLICABLE TO THE TYPES OF JOISTS USED.
11. MANUFACTURER SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF AWS D1.1 "STRUCTURAL WELDING CODE FOR STEEL" AND AWS D1.3 "STRUCTURAL WELDING FOR SHEET STEEL". ALL WELDERS SHALL BE CERTIFIED WELDERS PER AWS D1.3.
12. CONTRACTOR SHALL ACCEPT DELIVERY, STORE, AND HANDLE JOISTS AS RECOMMENDED IN SJI'S SPECIFICATIONS.
13. CONTRACTOR SHALL PROTECT JOISTS FROM CORROSION, DEFORMATION AND OTHER DAMAGE DURING DELIVERY, STORAGE AND HANDLING.
14. CONTRACTOR SHALL COORDINATE SUBCONTRACTORS AND STEEL FABRICATOR INSTALLATION OF ALL NECESSARY STEEL BEARING PLATES AND OTHER DEVICES FOR MASONRY AND CONCRETE CONSTRUCTION.
15. MANUFACTURER SHALL FABRICATE JOISTS AND SUPPLY BOLTS PER THE FOLLOWING:
   - A. ALL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF SJI'S SPECIFICATIONS FOR CHORDS AND WEBS.
   - B. ALL CARBON STEEL BOLTS AND FASTENERS SHALL BE ASTM A307 GRADE A (ASTM F568, PROPERTY CLASS 4.6), CARBON STEEL, HEX HEAD BOLTS AND THREADED FASTENERS; CARBON STEEL NUTS AND FLAT UNHARDENED STEEL WASHERS.
   - C. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE ASTM A325 (ASTM A325M) TYPE 1 HEAVY HEX STEEL STRUCTURAL BOLTS, HEAVY HEX CARBON-STEEL NUTS AND HARDENED STEEL WASHERS.
   - D. ALL WELDS SHALL COMPLY WITH AWS D1.1 STANDARDS.
16. MANUFACTURER SHALL PAINT JOISTS PER SSPC-PAINT 15, TYPE 1, GREY, FEDERAL SPECIFICATION TT-P636, GREY, OR MANUFACTURER'S STANDARD SHOP PRIMER MEETING THE REQUIREMENTS OF EITHER OF THESE GREY PRIMERS UNLESS REQUIRED BY ARCHITECTURAL REQUIREMENTS. MANUFACTURER SHALL CLEAN AND REMOVE ALL LOOSE SCALE, HEAVY RUST, AND OTHER FOREIGN MATERIAL FROM FABRICATED JOISTS AND ACCESSORIES TO BE PRIMED PER FOLLOWING SURFACE PREPARATION STANDARDS: HAND TOOL CLEANING (SSPC-SP2) AND POWER TOOL CLEANING (SSPC-SP3)AS REQUIRED TO MEET PRIMER PAINT MANUFACTURER'S REQUIREMENT. MANUFACTURER SHALL NOT PAINT JOISTS WHICH WILL RECEIVE FIREPROOFING ACCORDING TO ARCHITECTURAL DRAWINGS.
17. MANUFACTURE JOISTS ACCORDING TO SJI'S SPECIFICATIONS WITH STEEL ANGLE TOP AND BOTTOM CHORDS.
18. ALL WELDS SHALL BE PER AWS REQUIREMENTS AND PROCEDURES FOR SHOP WELDING, APPEARANCE, QUALITY OF WELDS METHODS USED IN CORRECTING WELDING WORK.
19. EXTEND TOP CHORDS OF JOISTS WITH SJI TYPE S TOP CHORD EXTENSIONS WHERE SHOWN ON STRUCTURAL DRAWINGS. TOP CHORD EXTENSIONS SHALL COMPLY WITH SJI'S "SPECIFICATIONS" AND LOAD TABLES.
20. EXTEND BEARING ENDS OF JOISTS WITH SJI TYPE R EXTENDED ENDS WHERE SHOWN ON STRUCTURAL DRAWINGS. BEARING END EXTENSIONS SHALL COMPLY WITH SJI'S "SPECIFICATIONS" AND LOAD TABLES.
21. CAMBER K-SERIES STEEL JOISTS ACCORDING TO SJI'S "SPECIFICATIONS".
22. MANUFACTURER SHALL PROVIDE MANUFACTURER'S STANDARD BEVEL ENDS OR SLOPED SHOES WHEN JOIST SLOPE EXCEEDS 1/4 INCH IN 12 INCHES (1:48).
23. MANUFACTURER SHALL PROVIDE BRIDGING ANCHORS AND NUMBER OF ROWS OF HORIZONTAL BRIDGING OR DIAGONAL BRIDGING OF MATERIAL, SIZE AND TYPE REQUIRED BY SJI'S "SPECIFICATIONS" FOR TYPE OF JOIST, CHORD SIZE, SPACING AND SPAN. MANUFACTURER SHALL PROVIDE END CONNECTION DETAILS AS REQUIRED FOR CONNECTING BRIDGING TO MASONRY WALL, CONCRETE WALL OR STEEL AS REQUIRED BY THE PROJECT. BRIDGING SHALL BE DETAILED AND FURNISHED ACCORDING TO SJI REQUIREMENTS. MANUFACTURER SHALL PROVIDE ALL ADDITIONAL BRIDGING TO ENSURE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
24. MANUFACTURER SHALL PROVIDE CEILING EXTENSIONS, EITHER EXTENDED BOTTOM CHORD ELEMENTS OR A SEPARATE EXTENSION UNIT OF SUFFICIENT STRENGTH TO SUPPORT CEILING CONSTRUCTION. VERIFY TYPE OF EXTENSION WITH CONTRACTOR AND STEEL ERECTOR. EXTEND ENDS TO WITHIN 1/2 INCH OF FINISHED WALL SURFACES, UNLESS OTHERWISE INDICATED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS.
25. CONTRACTOR SHALL EXAMINE SUPPORTING SUBSTRATES, EMBEDDED BEARING PLATES AND ABUTTING STRUCTURAL FRAMING, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH THE REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING THE PERFORMANCE OF THE JOISTS. CONTRACTOR SHALL NOT PROCEED WITH JOIST INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
26. CONTRACTOR SHALL NOT INSTALL JOISTS UNTIL SUPPORTING CONSTRUCTION IS IN PLACE AND SECURED.
27. CONTRACTOR SHALL INSTALL JOISTS AND ACCESSORIES PLUMB, SQUARE AND TRUE TO LINE. SECURELY FASTEN TO SUPPORTING CONSTRUCTION ACCORDING TO SJI'S SPECIFICATIONS, JOIST MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING:
   - A. BEFORE INSTALLATION, SPLICE JOISTS DELIVERED TO PROJECT SITE IN MORE THAN ONE PIECE.
   - B. SPACE, ADJUST, AND ALIGN JOISTS ACCURATELY IN LOCATION BEFORE PERMANENTLY FASTENING.
   - C. INSTALL TEMPORARY BRACING AND BRIDGING, CONNECTIONS AND ANCHORS TO INSURE JOISTS ARE STABILIZED DURING CONSTRUCTION.
28. CONTRACTOR SHALL FIELD WELD JOISTS TO SUPPORTING STEEL FRAMEWORK AND STEEL BEARING PLATES. COORDINATE WELDING SEQUENCE AND PROCEDURE WITH THE PLACING OF JOISTS. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND COMPLY WITH THE LATEST AWS REQUIREMENTS FOR QUALITY OF WELDS AND METHODS USED IN CORRECTING WELDING WORK.
29. BOLT JOISTS TO SUPPORTING STEEL FRAMEWORK USING CARBON STEEL BOLTS, UNLESS OTHERWISE INDICATED.
30. BOLT JOISTS TO SUPPORTING STEEL FRAMEWORK USING HIGH-STRENGTH STRUCTURAL BOLTS WHERE INDICATED ON STRUCTURAL DRAWINGS OR JOIST SHOP DRAWINGS. THE INSTALLATION ON THE HIGH-STRENGTH BOLT PER RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS' (RCSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS" FOR HIGH-STRENGTH STRUCTURAL BOLT INSTALLATION AND TIGHTENING REQUIREMENTS.
31. INSTALL AND CONNECT BRIDGING CONCURRENTLY WITH THE JOIST ERECTION, BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF BRIDGING LINES AT TOP AND BOTTOM CHORDS WHERE TERMINATING AT WALLS OR BEAMS PER JOIST MANUFACTURER'S DETAILS.
32. CONTRACTOR SHALL HIRE A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM QUALITY CONTROL TESTING FOR JOIST INSTALLATION. TESTING AGENCY SHALL PROVIDE WRITTEN REPORTS PROMPTLY TO CONTRACTOR AND ARCHITECT. CONTRACTOR SHALL FIX OR REPAIR ALL DEFICIENCIES FOUND DURING TESTING AND TESTING AGENCY SHALL RE-INSPECT WORK.

METAL DECK

1. CONTRACTOR AND METAL DECK SUPPLIER SHALL SUBMIT THE FOLLOWING:
   - A. PRODUCT DATA
   - B. MANUFACTURING CERTIFICATES
   - C. SHOP DRAWINGS PROVIDING THE FOLLOWING:
     - 1. LAYOUT AND TYPES OF DECK PANELS
     - 2. ANCHORAGE DETAILS
     - 3. REINFORCING CHANNELS AND PANS
     - 4. DECK OPENINGS
     - 5. SPECIAL JOINTING ACCESSORIES
     - 6. ATTACHMENTS TO OTHER UNITS
2. CONTRACTOR SHALL INSTALL METAL DECK USING CERTIFIED WELDERS AND COMPLY WITH ALL APPLICABLE PROVISIONS OF AWS D1.1 " STRUCTURAL WELDING CODE FOR STEEL" AND AWS D1.3 " STRUCTURAL WELDING CODE FOR SHEET STEEL".
3. CONTRACTOR SHALL PROVIDE VALID QUALIFICATION CERTIFICATES FOR ALL WELDERS.
4. MANUFACTURER SHALL PROVIDE LABELED STEEL DECK PANELS IDENTICAL TO THOSE TESTED AS PART OF AN ASSEMBLY FOR FIRE RESISTANCE PER ASTM E119 BY A TESTING AND INSPECTION AGENCY PERFORMING TESTING AND FOLLOW-UP SERVICES, THAT IS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
5. PANELS SHALL BE FABRICATED WITHOUT TOP-FLANGE STIFFENING GROOVES CONFORMING TO SDI PUBLICATION NO. 28 "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK"
6. ROOF DECK SHALL CONFORM TO TYPE AND GAGE SHOWN ON THE PLANS.
7. FLOOR DECK SHALL ROLLED FROM GALVANIZED SHEET STEEL CONFORMING TO ASTM A446, GRADE A WITH A G60 GALVANIZED COATING ACCORDING TO ASTM A525 UNLESS OTHERWISE NOTED.
8. MANUFACTURER SHALL DESIGN AND PROVIDE ALL NECESSARY ACCESSORIES FOR ROOF AND FLOOR OPENINGS AND PANEL EDGES.
9. METAL DECK SHALL BE INSTALLED ACCORDING TO APPLICABLE SPECIFICATIONS AND COMMENTARY OF SDI PUBLICATION NO. 28 AND MANUFACTURERS RECOMMENDATIONS, AND THE FOLLOWING REQUIREMENTS:
   - A. PLACE PANELS ON SUPPORTING FRAMING AND ADJUST TO FINAL POSITION WITH ENDS ACCURATELY ALIGNED AND BEARING ON SUPPORTING FRAMING BEFORE BEING PERMANENTLY FASTENED.
   - B. CONTRACTOR SHALL STRETCH OR CONTRACT SIDE LAP INTERLOCKS.
   - C. PLACE DECK PANELS FLAT AND SQUARE AND FASTEN TO SUPPORTING FRAMING WITHOUT WARP OR DEFLECTION.
   - D. CUT, REINFORCE, AND NEATLY FIT DECK PANELS AND ACCESSORIES AROUND OPENINGS AND OTHER WORK PROJECTING THROUGH OR ADJACENT TO THE DECKING.
   - E. COMPLY WITH AWS REQUIREMENTS AND PROCEDURES FOR MANUAL SHIELDED METAL ARC WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.
   - F. INSTALL ALL NECESSARY ROOF ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS. THESE ITEMS INCLUDE SUMP PANS, SUMP PLATES, RIDGE AND VALLEY PLATES, FINISH STRIPS, COVER PLATES, END CLOSURES AND REINFORCING CHANNELS.
   - G. CONTRACTOR SHALL PREPARE AND REPAIR ALL DAMAGED GALVANIZED COATINGS ON BOTH SURFACES WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S INSTRUCTIONS.
11. PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALL AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE REINFORCED GROUTED CELL ON BOTH SIDES OF THE CONTROL JOINT. CONTRACTOR SHALL COORDINATE CONTROL JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
12. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH VERTICAL CONTROL JOINTS.

MASONRY VENEER

1. AT MASONRY VENEER WITH METAL OR WOOD STUD BACKUP USE DW10 BY HOHMANN BARNARD OR D/A 213 BY DUR-O-WALL. VENEER ANCHORS SHALL BE ANCHORED DIRECTLY TO METAL OR WOOD STUDS. ANCHOR SPACING SHALL BE ADJUSTED TO STUD SPACING.
2. MASONRY VENEER ANCHORS SHALL BE ATTACHED DIRECTLY TO WOOD STUDS WITH 8d COMMON CORROSION RESISTANT NAIL (I.E. GALVANIZED)
3. MASONRY VENEER ANCHORS SHALL BE ATTACHED DIRECTLY TO METAL STUD WITH #10 GALVANIZED SCREWS.
4. ALL MASONRY ANCHORS SHALL BE ADJUSTABLE, CORROSION RESISTANT (I.E. GALV.), AND CONFORM TO LATEST ACI 530. CORRUGATED TIES SHALL NOT BE USED DUE TO UNBRACED LENGTH WITHIN AIR SPACE.
5. MASONRY VENEER ANCHORS SHALL BE SPACED PER WALL SECTION REQUIREMENTS WITH THE FOLLOWING MINIMUMS AND MAXIMUMS:
   - A. ANCHORS SHALL BE LOCATED WITHIN 12" OF ALL EDGES OF OPENINGS.
   - B. ANCHORS SHALL NOT BE SPACED MORE THAN 16" O.C. VERTICALLY.
   - C. ANCHORS SHALL NOT BE SPACED MORE THAN 16" O.C. HORIZONTALLY.
6. CONTRACTOR SHALL PROVIDE 3/16" WEEP HOLES AT MAXIMUM 32" O.C. AT FLASHING LEVEL.
7. CONTRACTOR SHALL GROUT FULLY BEHIND ALL VENEERS BELOW GRADE.
8. CONTRACTOR SHALL GROUT SOLID BELOW BASE FLASHING.

STATE OF MISSOURI
XIQUAN SHA
NUMBER E-28853
PROFESSIONAL ENGINEER
3-18-2021

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PROJECT NUMBER:
20034.00

S1.1

9. VENEERS SHALL NOT EXCEED 33 FT. AT EAVES OR 38 FT. AT GABLES WITHOUT STEEL SUPPORT AT EACH FLOOR LEVEL.
10. PROVIDE #9 GALVANIZED WIRE LONGITUDINAL REINFORCING IN BRICK/MASONRY BLOCK VENEER AT EVERY TIE ELEVATION WITH SEISMIC CLIPS TO TIE FOR SEISMIC DESIGN CATEGORY D. SEE DESIGN CRITERIA NOTE E-7.

LIGHT GAGE METAL FRAMING

1. CONTRACTOR SHALL PROVIDE AND ERECT COLD-FORMED METAL FRAMING WITH FOLLOWING MINIMUM PHYSICAL PROPERTIES:
   1 5/8" WIDE FLANGES

MEMBER	SSMA DESIGNATION	AREA IN2	Ixx IN4	Iyy IN4	Fy KSI
3 5/8"x16ga. CSJ	362S162-54	0.422	0.873	0.154	50
4"x16ga. CSJ	400S162-54	0.443	1.098	0.159	50
6"x16ga. CSJ	600S162-54	0.556	2.860	0.180	50
8"x16ga. CSJ	800S162-54	0.670	5.736	0.194	50
10"x16ga. CSM	1000S200-54	0.839	11.232	0.378	50
12"x16ga. CSJ	1200S162-54	0.896	15.730	0.212	50

2. CONTRACTOR AND MANUFACTURER SHALL PROVIDE SHOP DRAWINGS AND PRODUCT DATA ON ALL LIGHT GAGE METAL FRAMING USED ON THIS PROJECT. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING:
   A. MATERIAL MILL CERTIFICATES
   B. SECTION PROPERTIES AND STRENGTHS
   C. WELDER QUALIFICATION CERTIFICATES
   D. ANCHORAGE DETAILS
   E. MANUFACTURER'S STANDARD DETAILS AND INSTALLATION REQUIREMENTS
3. ALL WELDS SHALL COMPLY WITH APPLICABLE PROVISIONS OF AWS D1.1 "STRUCTURAL WELDING CODE FOR STEEL" AND AWS D1.3 "STRUCTURAL WELDING CODE FOR SHEET STEEL".
4. FOR FIRE RATED ASSEMBLIES SHOWN ON ARCHITECTURAL DRAWINGS PROVIDE COLD-FORMED METAL FRAMING IDENTICAL TO THAT TESTED AS PART OF THE ASSEMBLY FOR THE FIRE RESISTANCE PER ASTM E119 BY INDEPENDENT TESTING.
5. FIRE-RESISTANCE RATINGS ARE INDICATED ON ARCHITECTURAL DRAWINGS BY UL "FIRE RESISTANCE DIRECTORY NUMBER" OR BY WARNOCK HERSEY OR OTHER TESTING AND INSPECTING AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
6. DELIVERY AND STORAGE
   A. CONTRACTOR SHALL PROTECT COLD-FORMED METAL FRAMING FROM CORROSION, DEFORMATION AND OTHER DAMAGE DURING DELIVERY, STORAGE AND HANDLING.
   B. CONTRACTOR SHALL STORE COLD-FORMED METAL FRAMING WITH A WATERPROOF COVERING AND VENTILATE TO AVOID CORROSION.
   C. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR HANDLING, ERECTING AND STORAGE.
7. COLD-FORMED SHAPES SHALL BE MANUFACTURED FROM GALVANIZED-STEEL SHEETS CONFORMING TO ASTM A446 WITH A G60 GALVANIZED COATING WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
8. ALL FRAMING ACCESSORIES SHALL BE OF THE SAME MATERIAL AND FINISH AS USED IN THE FRAMING MEMBERS WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.
9. ALL MECHANICAL FASTENERS SHALL BE CORROSION RESISTANT COATED, SELF-DRILLING, SELF-THREADING STEEL DRILL SCREWS WITH LOW-PROFILE HEADS BENEATH SHEATHING AND MANUFACTURER'S STANDARD ELSEWHERE.
10. ALL DAMAGED GALVANIZED AREAS SHALL BE PREPARED AND REPAIRED WITH GALVANIZING REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S INSTRUCTIONS.
11. CONTRACTOR SHALL INSTALL COLD-FORMED METAL FRAMING AND ACCESSORIES PLUMB, SQUARE, TRUE TO LINE AND WITH CONNECTIONS SECURELY FASTENED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS OF THIS SECTION. CONTRACTOR SHALL INSTALL THE COLD-FORMED MEMBERS PER THE FOLLOWING:
   A. COLD-FORMED MEMBERS SHALL BE SAWED OR SHEARED. COLD-FORMED MEMBERS SHALL NOT BE TORCH CUT.
   B. FASTEN COLD-FORMED FRAMING MEMBERS BY WELDING OR SCREW FASTENING AS STANDARD WITH THE FABRICATOR. WIRE TYING OF FRAMING IS NOT PERMITTED.
   C. FRAMING MEMBERS SHALL BE INSTALLED IN ONE-PIECE LENGTHS
   D. PROVIDE TEMPORARY BRACING AND LEAVE IN PLACE UNTIL FRAMING IS PERMANENTLY STABILIZED. TEMPORARY BRACING SHALL BE DESIGNED AND FURNISHED BY CONTRACTOR.
   E. INSTALL INSULATION IN MIDDLE OF EXTERIOR BUILT-UP MEMBERS PER ARCH.
   F. INSTALL REINFORCEMENT PLATES OR CHANNELS OVER WEB PENETRATIONS THAT EXCEED SIZE OF MANUFACTURER'S STANDARD PUNCHED OPENINGS. CONTRACTOR SHALL CONTACT MANUFACTURER FOR RECOMMENDED REINFORCING DETAIL.
   G. ALL COLD-FORMED MEMBERS SHALL INSTALLED TO THE FOLLOWING MAXIMUM TOLERANCES:
      1. VARIATION FROM PLUMB, LEVEL AND TRUE TO OF 1/8" IN 10 FEET (1:960)
      2. SPACE INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8" FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISH MATERIAL.
      3. INSTALL COLD-FORMED METAL FRAMING TO A MAXIMUM OUT-OF SQUARE TOLERANCE OF 1/8"
   H. INSTALL MANUFACTURER'S STANDARD HORIZONTAL BRIDGING IN ROWS NOT TO EXCEED 4'-0" O.C. VERTICALLY. FASTEN AT EACH STUD INTERSECTION PER MANUFACTURE'S STANDARD DETAIL AND RECOMMENDATIONS.
   J. SET BEAMS AND GIRDERS DIRECTLY ON BUILT UP POSTS OR STEEL COLUMNS WITHOUT SANDWICHING ANY PLATE OR STUD BETWEEN POSTS OR COLUMNS. SET BUILT UP POST ON STEEL, CONCRETE OR BEAMS DIRECTLY WITHOUT SANDWICHING SUB FLOOR, STUDS, JOIST, OR PLATES.
12. CONTRACTOR SHALL INSTALL NON-LOAD BEARING CURTAIN WALL FRAMING PER THE FOLLOWING:
   A. INSTALL, ALIGN AND SECURELY ANCHOR CONTINUOUS TRACKS TO SUPPORTING STRUCTURE. SQUARELY SEAT STUDS AGAINST WEBS OF THE TOP AND BOTTOM TRACKS. SPACE STUDS AS INDICATED; PLUMB, ALIGN AND FASTEN BOTH FLANGES OF THE TOP AND BOTTOM TRACK.
   B. ISOLATE FRAMING FROM THE BUILDING STRUCTURE AT LOCATIONS INDICATED TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT. ALL DETAILS SHALL BE PER MANUFACTURE'S STANDARDS AND DETAILS.
   C. INSTALL MANUFACTURER'S STANDARD HORIZONTAL BRIDGING IN ROWS NOT TO EXCEED 4'-0" O.C. VERTICALLY. FASTEN AT EACH STUD INTERSECTION PER MANUFACTURE'S STANDARD DETAIL AND RECOMMENDATIONS.
   D. INSTALL MISCELLANEOUS FRAMING AND CONNECTIONS INCLUDING STUD BRACES, WEB STIFFENERS, CLIP ANGLES, CONTINUOUS ANGLES, ANCHORS, FASTENERS AND STUD GIRTS, TO PROVIDE A COMPLETE AND STABLE CURTAIN WALL-FRAMING SYSTEM.

HANDRAIL

1. HSS1 1/2x1 1/2x3/16 CAN BE SPACED AT 4'-0" ON CENTER UNDER 2015 IBC HANDRAIL CRITERIA. THE MAXIMUM HEIGHT FOR HSS1 1/2x1 1/2x3/16 IS 2'-10".
2. HSS1 1/2x1 1/2x3/16 CAN BE SPACED AT 4'-0" ON CENTER UNDER 2015 IBC GUARDRAIL CRITERIA, THE MAXIMUM HEIGHT FOR HSS1 1/2x1 1/2x3/16 IS 3'-6".

MECHANICAL ANCHORS

EXPANSION ANCHORS

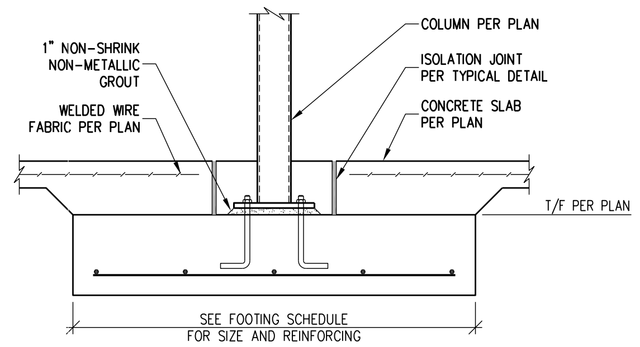
1. EXPANSION ANCHORS TO BE HILTI KWIK BOLT III, SIMPSON WEDGE-ALL, OR APPROVED EQUAL.
2. INSTALLER OF EXPANSION ANCHOR SHALL BE CERTIFIED BY ANCHOR MANUFACTURER FOR PROPER INSTALLATION REQUIREMENTS AND PROCEDURES.

CONCRETE SCREW ANCHORS

1. CONCRETE SCREW ANCHORS TO BE HILTI HUS-H, SIMPSON TITEN HD, OR APPROVED EQUAL.

CHEMICAL ANCHORS

1. ADHESIVE SET STEEL ANCHORS TO BE:
   A. HILTI HIT-HY200 SIMPSON ACRYLIC-TIE, OR APPROVED EQUAL FOR ANCHORS SET IN CONCRETE OR SOLIDLY GROUTED MASONRY.
   B. HILTI HIT-HY70 SIMPSON ACRYLIC-TIE WITH SCREENS OR APPROVED EQUAL FOR ANCHORS SET IN HOLLOW MASONRY.
2. INSTALLER OF CHEMICAL ANCHORS SHALL BE CERTIFIED BY ANCHOR MANUFACTURER FOR PROPER INSTALLATION REQUIREMENTS AND PROCEDURES.



TYPICAL INTERIOR FOOTING DETAIL
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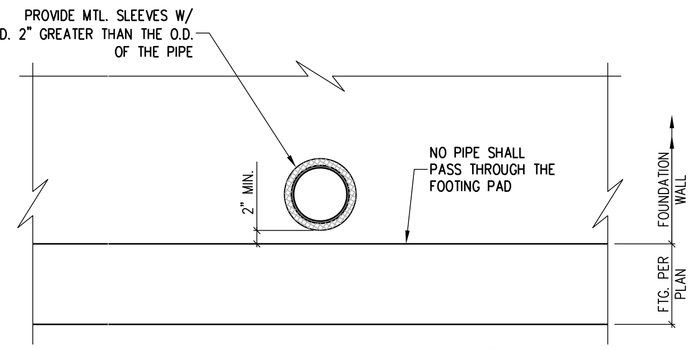

PIPE PENETRATION THROUGH FOUNDATION WALL DETAIL
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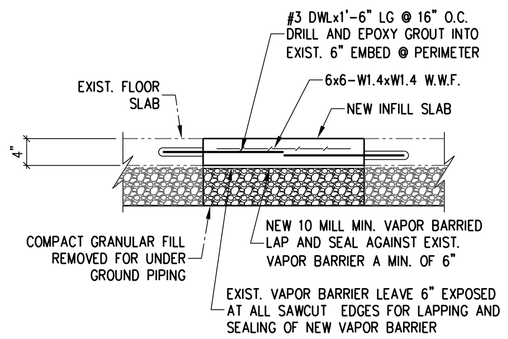

1. SAWCUT EDGES OF OPENING. DO NOT CUT EXISTING VAPOR BARRIER.
2. LEAVE MIN. OF 6" OF EXIST. VAPOR BARRIER EXPOSED FOR LAP WITH NEW VAPOR BARRIER.
3. INSTALL UNDERGROUND PIPING AND/OR CONDUIT.
4. COMPACT BACKFILL AROUND UNDERGROUND AND/OR CONDUIT.
5. INSTALL COMPACTED GRANULAR FILL TO MATCH EXIST. GRANULAR FILL DEPTH = 4" MIN.
6. INSTALL NEW 10 MIL MIN. VAPOR BARRIER ABOVE GRANULAR FILL AND LAP MIN. 6" AND SEAL PER MFR. RECOMMENDATIONS.
7. INSTALL #3 DWLSx1'-6" LG. AT 16" O.C. DRILL AND EPOXY GROUT 6" EMBED AT PERIMETER OF OPENING.
8. INSTALL WIRE MESH 6x6xW2.9xW2.9 WWF FOR NEW SLAB INFILL. SUPPORT AS REQUIRED TO LOCATE AT MID SLAB DEPTH.
9. INSTALL CONCRETE INFILL AND FINISH TO MATCH EXIST. CONCRETE ELEVATION, THICKNESS AND FINISH.

TYPICAL SLAB PATCHING DETAIL
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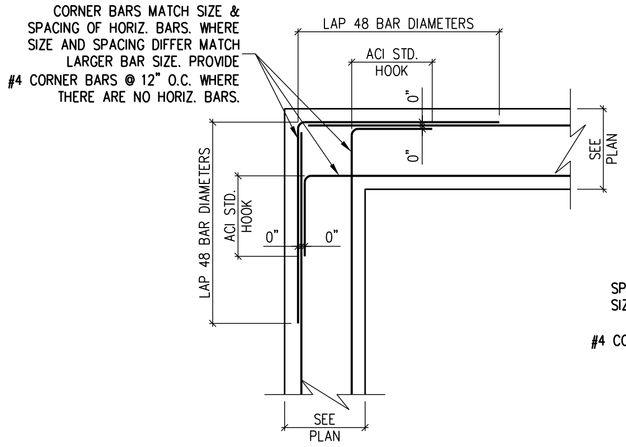

TYPICAL FOOTING/WALL CORNER REINFORCING DETAIL
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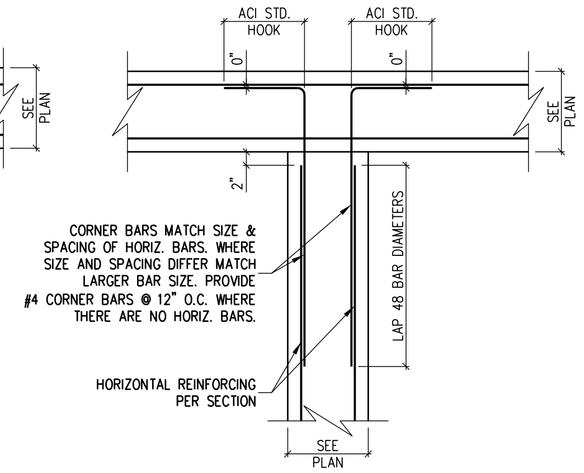

TYPICAL FOOTING/WALL INTERSECTION REINFORCING DETAIL
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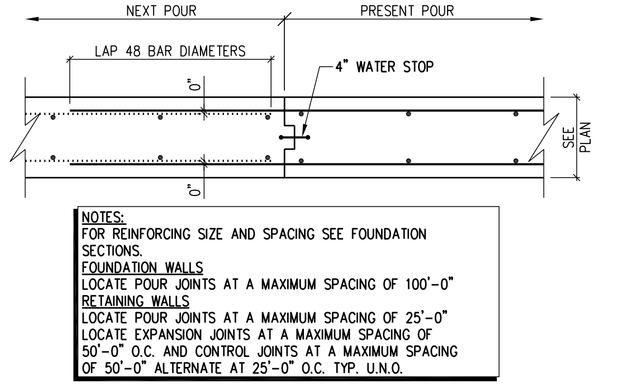

TYPICAL WALL /GRADE BEAM POUR JOINT DETAIL
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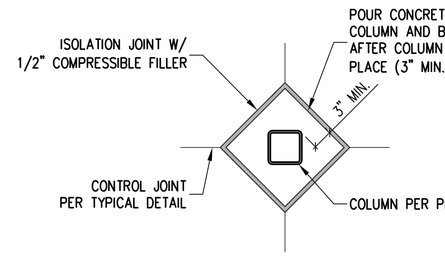

TYPICAL ISOLATION JOINT DETAIL
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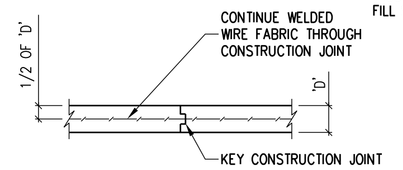

TYPICAL CONSTRUCTION JOINT DETAIL
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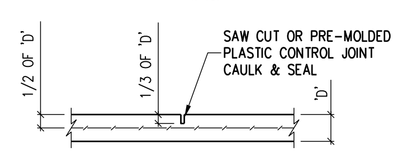

TYPICAL CONTROL JOINT DETAIL
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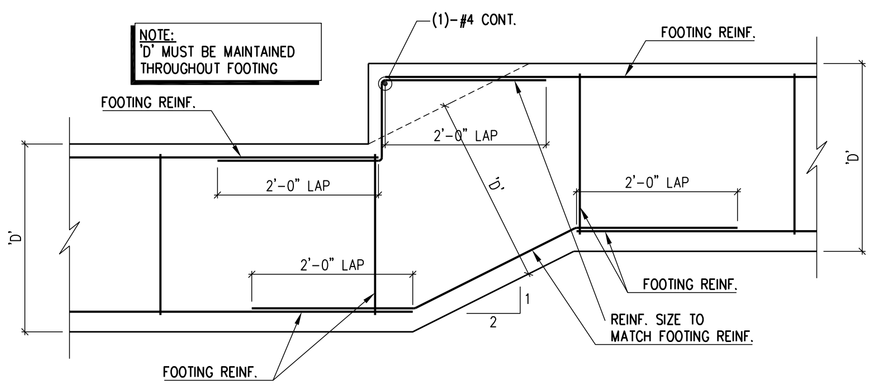
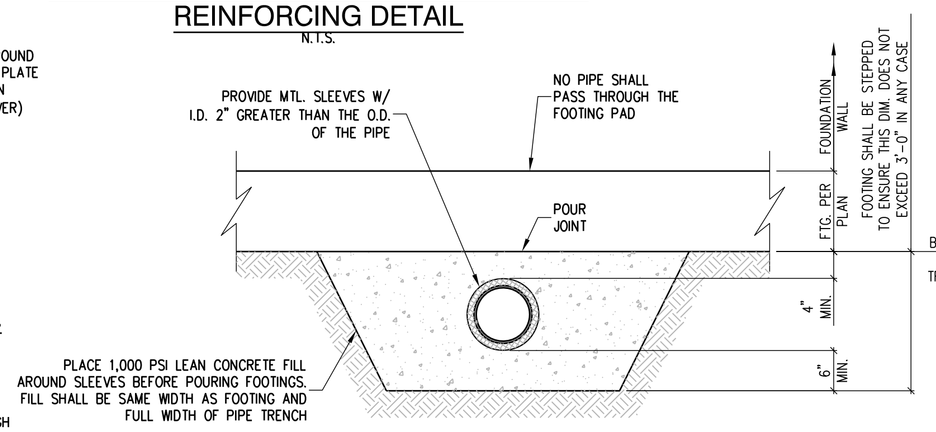


TYPICAL STEPPED TRENCH FOOTING DETAIL



PIPE TRENCH PERPENDICULAR TO FOUNDATION DETAIL
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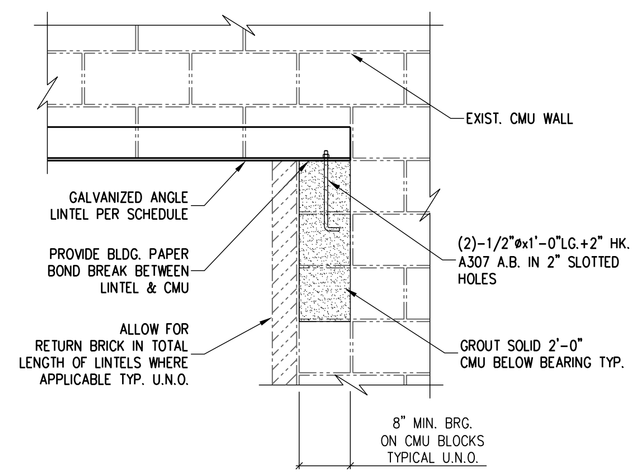

TYPICAL STEEL ANGLE LINTEL DETAIL
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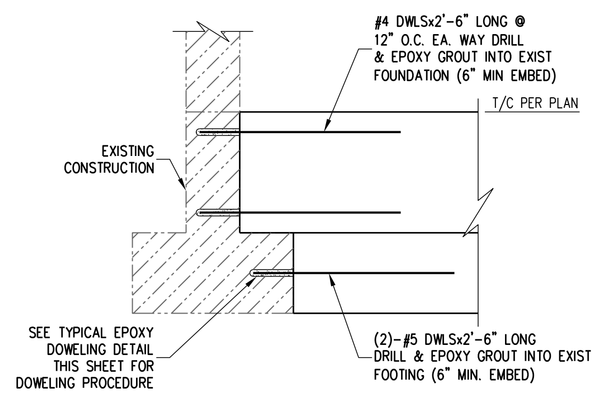

TYPICAL FOUNDATION DOWELING DETAIL
N.T.S.

3/18/2021 1:33 PM

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3-18-2021 STATE OF MISSOURI XIQUAN SHA NUMBER E-28855 REGISTERED PROFESSIONAL ENGINEER

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USED CAR BUILDING RENOVATIONS
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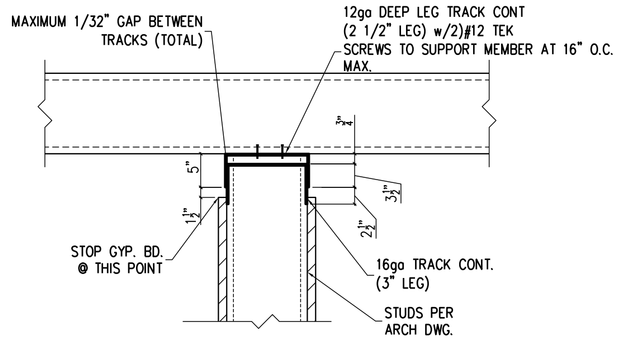
ST. LOUIS, MO, 63123

Dave Sinclair Buick - GMC
BUICK | GMC

PROJECT NUMBER:
20034.00

S1.2



TYPICAL VERTICAL SLIDE TRACK DETAIL

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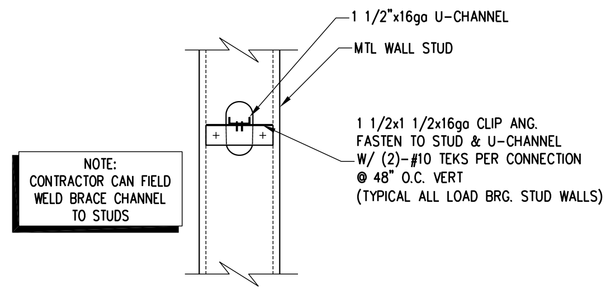

TYPICAL MTL STUD BRACE CHANNEL

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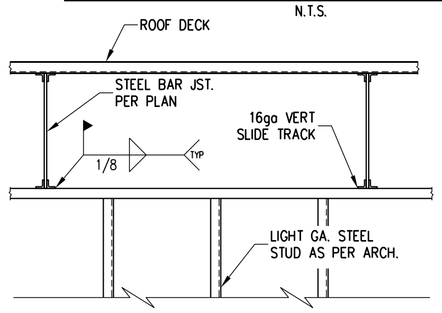

TYPICAL STEEL STUD PARTITION WALL SUPPORT DETAIL I

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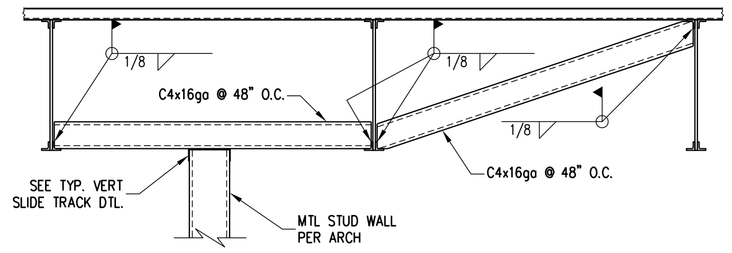

TYPICAL STEEL STUD PARTITION WALL SUPPORT DETAIL II

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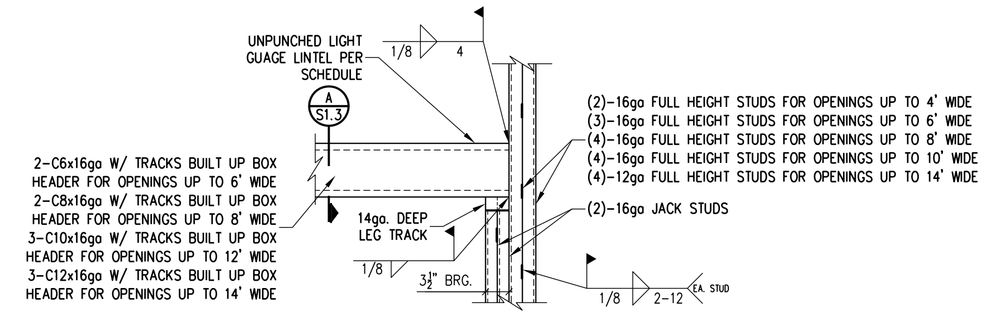
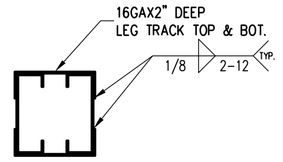
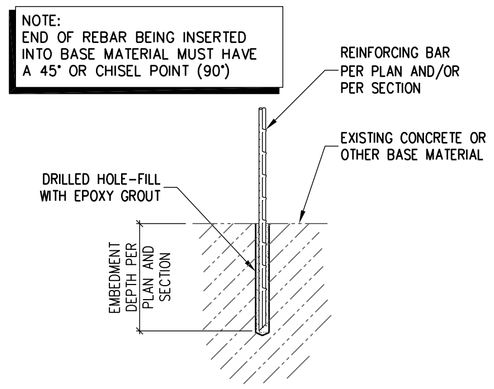


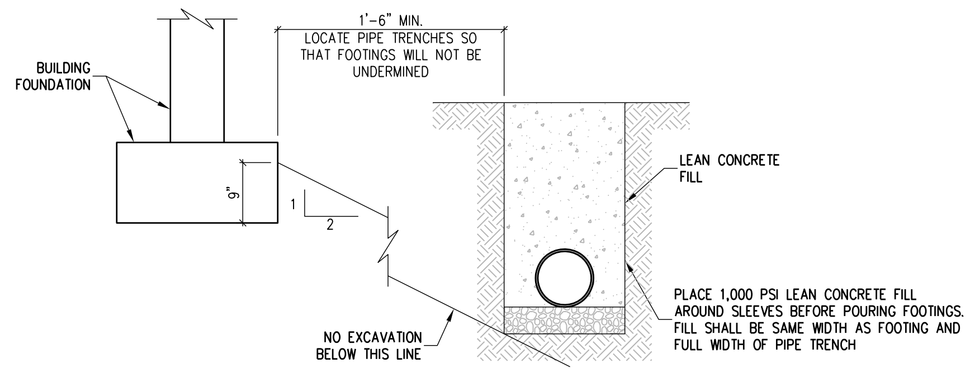
TYPICAL LINTEL DETAIL @ METAL STUD WALL





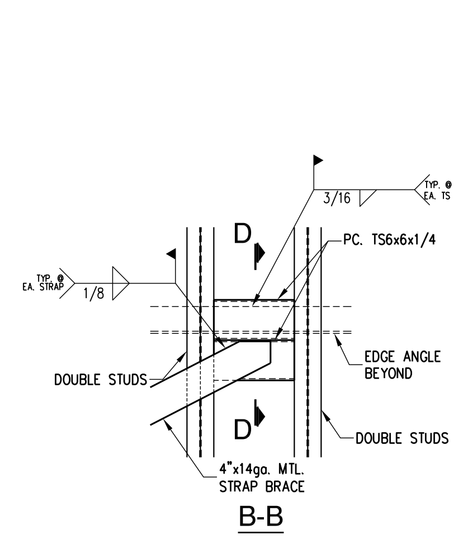
1. DRILL HOLE TO THE REQUIRED DEPTH; APPROX. 1/8" WIDER DIAMETER THAN THE REBAR.
2. CLEAN OUT DUST AND FRAGMENTS; PREFERABLY USING A JET OF WATER OR COMPRESSED AIR AND A NYLON BRUSH. DO NOT USE A WIRE BRUSH.
3. INJECT APPROPRIATE EPOXY GROUT INTO PRE-DRILLED HOLE IN BASE MATERIAL.
4. PLACE CHISEL POINTED END OF REBAR ON TOP OF EPOXY GROUT AND DRIVE REBAR TO BOTTOM OF HOLE.
5. CARE SHOULD BE TAKEN NOT TO DISTURB THE INSTALLED REBAR UNTIL EPOXY GROUT HAS CURED.

TYPICAL EPOXY DOWELING DETAIL



PIPE TRENCH PARALLEL TO FOUNDATION DETAIL

N.T.S.



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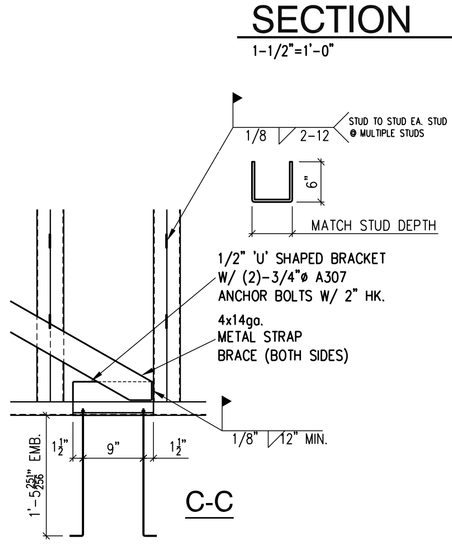

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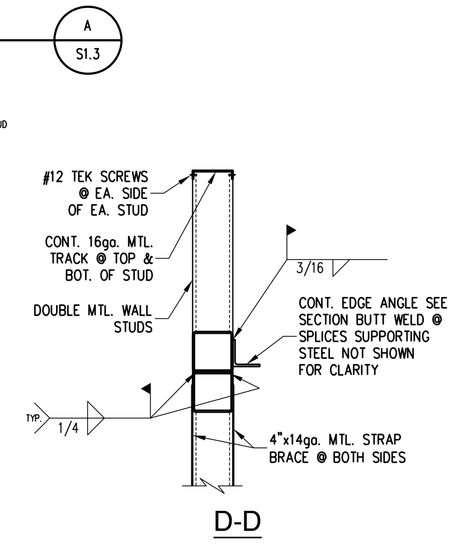

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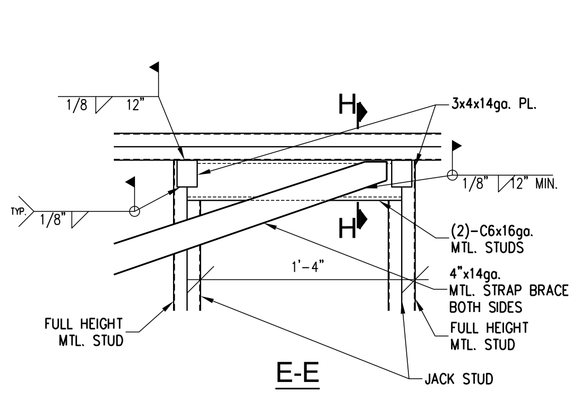

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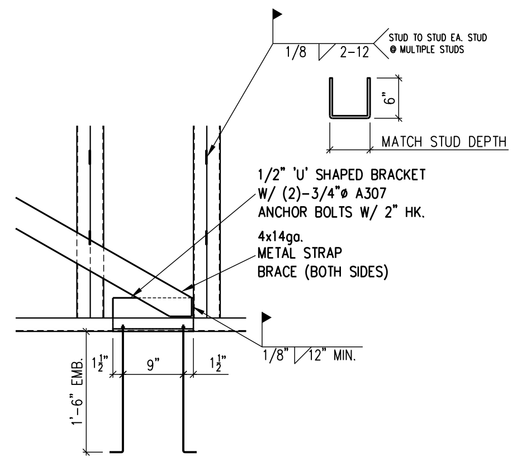

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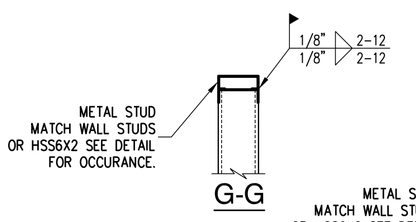

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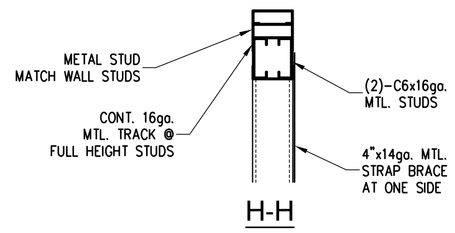

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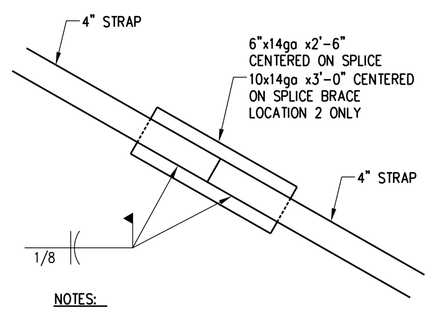
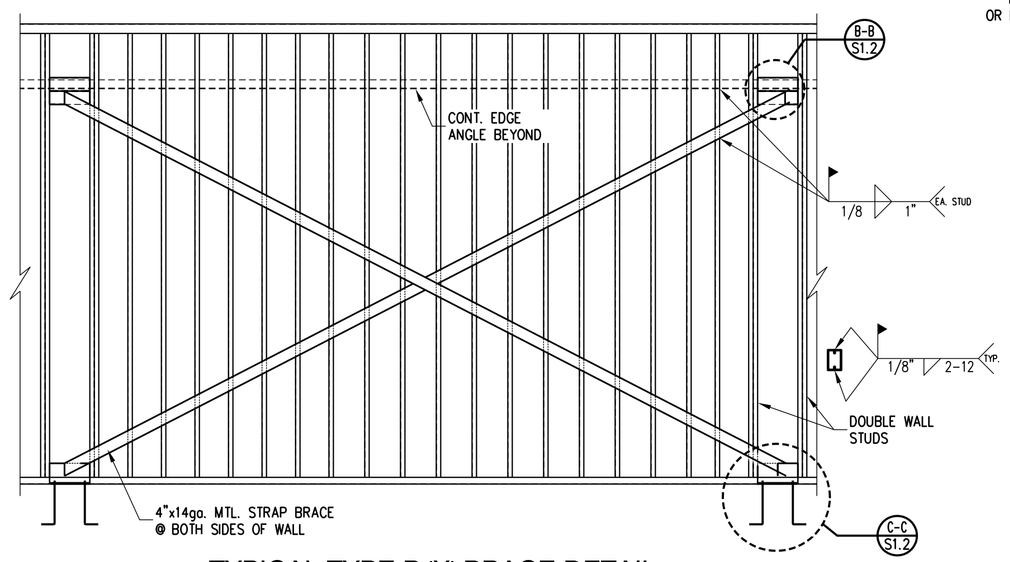


NOTES:
1. SPLICES SHALL BE LOCATED WHERE ONLY 2 THICKESSES OF 14GA MATERIAL WILL OCCUR.
2. CONTRACTOR SHALL PULL THE 14GA STRAPS TIGHT BEFORE WELDING CONNECTIONS.

BRACE STRAP SPLICE

N.T.S.



TYPICAL TYPE B 'X'-BRACE DETAIL

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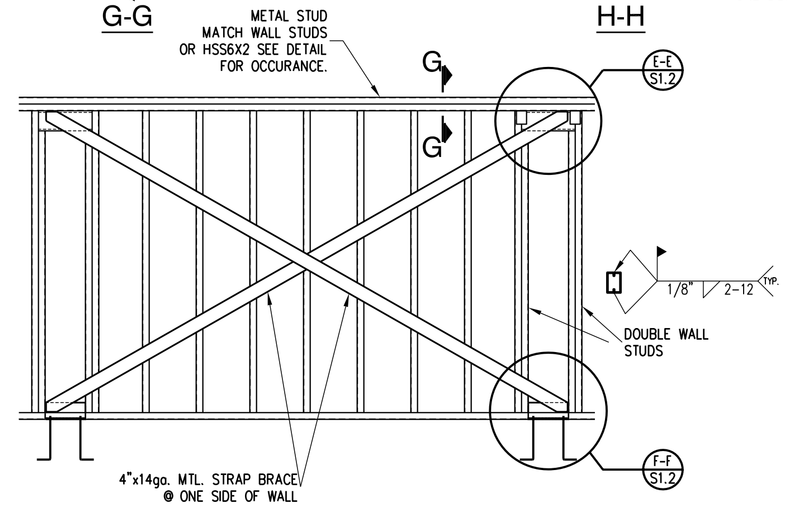

TYPICAL TYPE A 'X'-BRACE DETAIL

N.T.S.

SECTION A S1.3
1-1/2"=1'-0"

3/18/2021 1:34 PM

3-18-2021
STATE OF MISSOURI
REGISTERED
XIQUAN SHA
NUMBER E-28855
PROFESSIONAL ENGINEER

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USED CAR BUILDING RENOVATIONS

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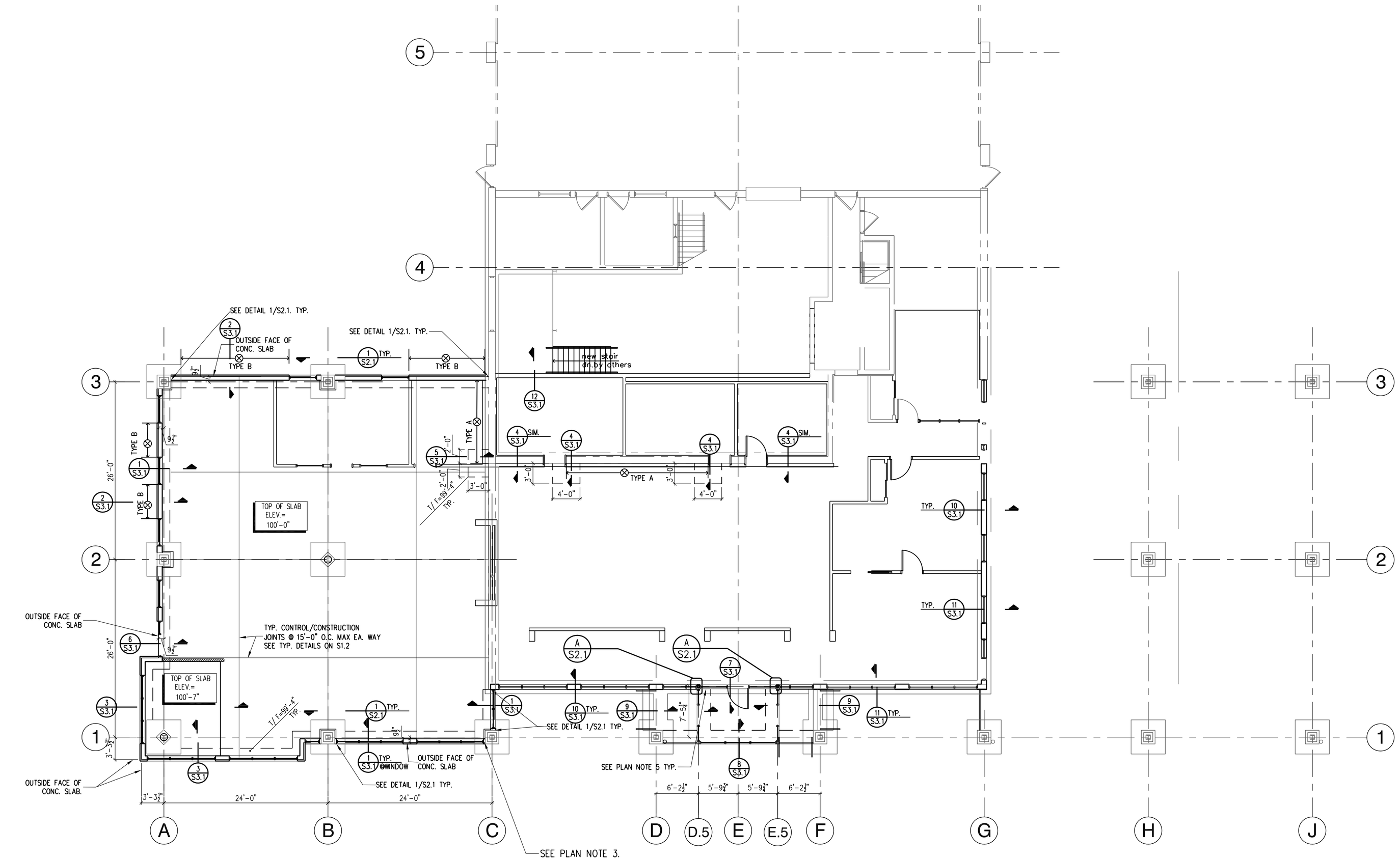
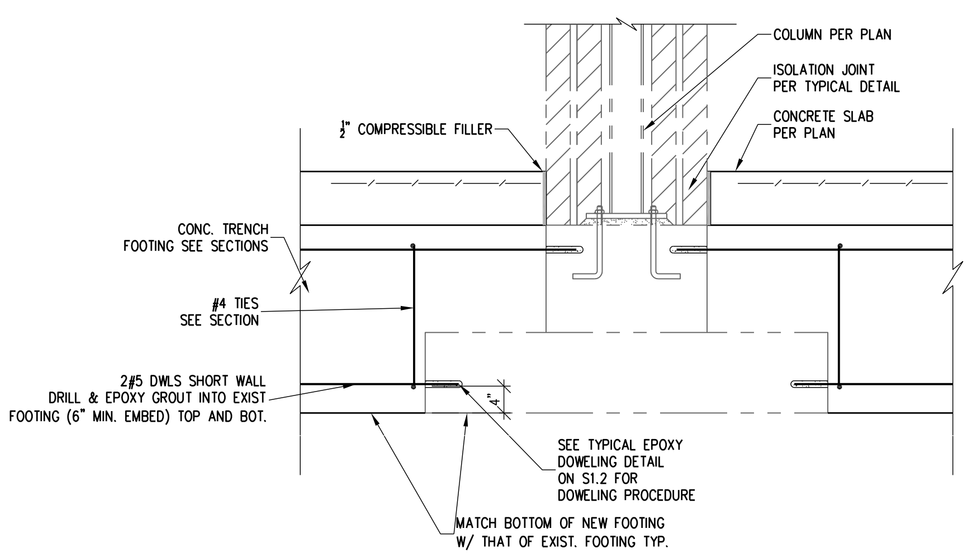
Dave Sinclair Buick - GMC
BUICK | GMC

PROJECT NUMBER:
20034.00

S1.3



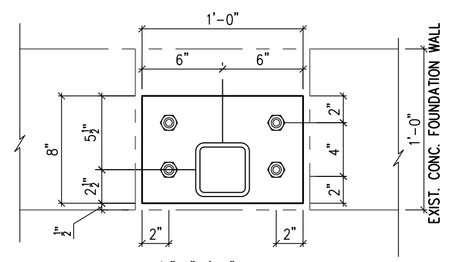


SECTION 1/S2 — 3/4"=1'-0"

FOUNDATION PLAN

1/8"=1'-0"

1. FLOOR CONSTRUCTION: 4" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6xW2.1xW2.1 WELDED WIRE FABRIC OVER 10 MIL VAPOR BARRIER OVER 4" COMPACTED GRANULAR FILL.
2. ALL FOOTINGS TO BE CENTERED UNDER WALLS AND/OR COLUMNS.
3. FINISHED FLOOR ELEV.=100'-0" CORRESPONDS TO ARCHITECTURAL ELEVATION OF XXX.X', SEE ARCH. OR CIVIL DRAWINGS.
4. FOR GENERAL NOTES AND TYPICAL DETAILS SEE SHEET S1.1 TO S1.3.
5. SEE TYP. FOUNDATION DOWELING DETAIL ON S1.2.
6. ⊗ DENOTES LOCATION OF STRAP "X-BRACING". SEE DETAILS ON DRAWING S1.3.
7. 2)CSJ6X14GA BUILT-UP AGAINST EXIST. BRICK PIER AT EA. END OF WINDOW OPENINGS TYP.



3/4"x8"x1'-0" BASE PL.
W/ (4)-3/4"ø HILTI HIT HY 200 ANCHOR
DRILL AND EPOXY INTO CONC. (8" EMBED)
REMOVE 8" THICK OF EXIST. CONC. AS REQUIRED PRIOR TO INSTALLING BASE PL.
HSS4X4

SECTION A/S2 — 3/4"=1'-0"

3/18/2021 1:46 PM

3-18-2021
STATE OF MISSOURI
XIQUAN SHA
NUMBER E-28855
REGISTERED PROFESSIONAL ENGINEER

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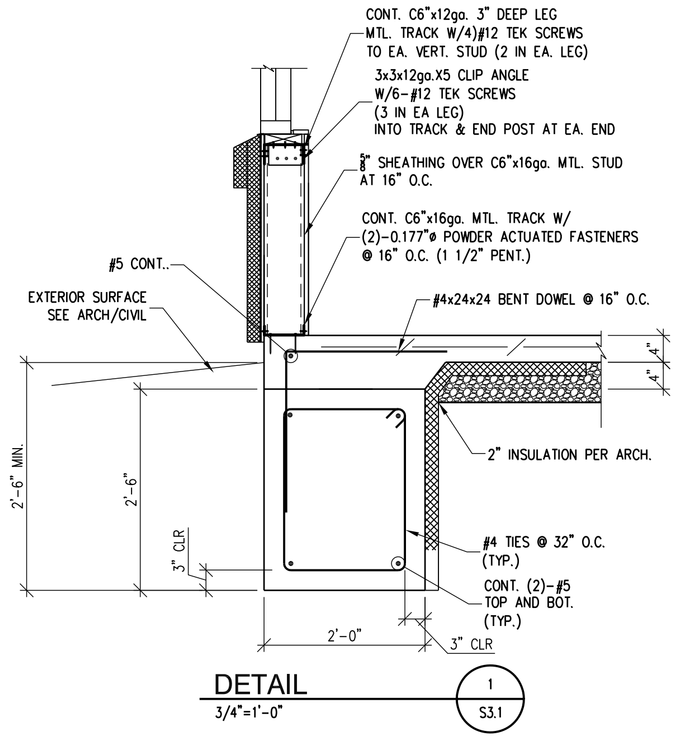
USED CAR BUILDING RENOVATIONS

5655 S LINDBERGH BLVD
ST. LOUIS, MO, 63123

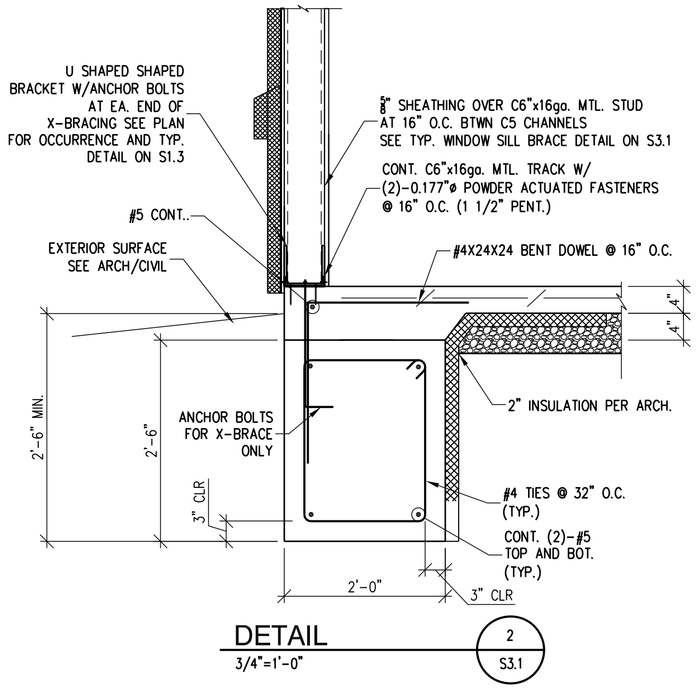
Dave Sinclair Buick - GMC
BUICK | GMC

PROJECT NUMBER:
20034.00

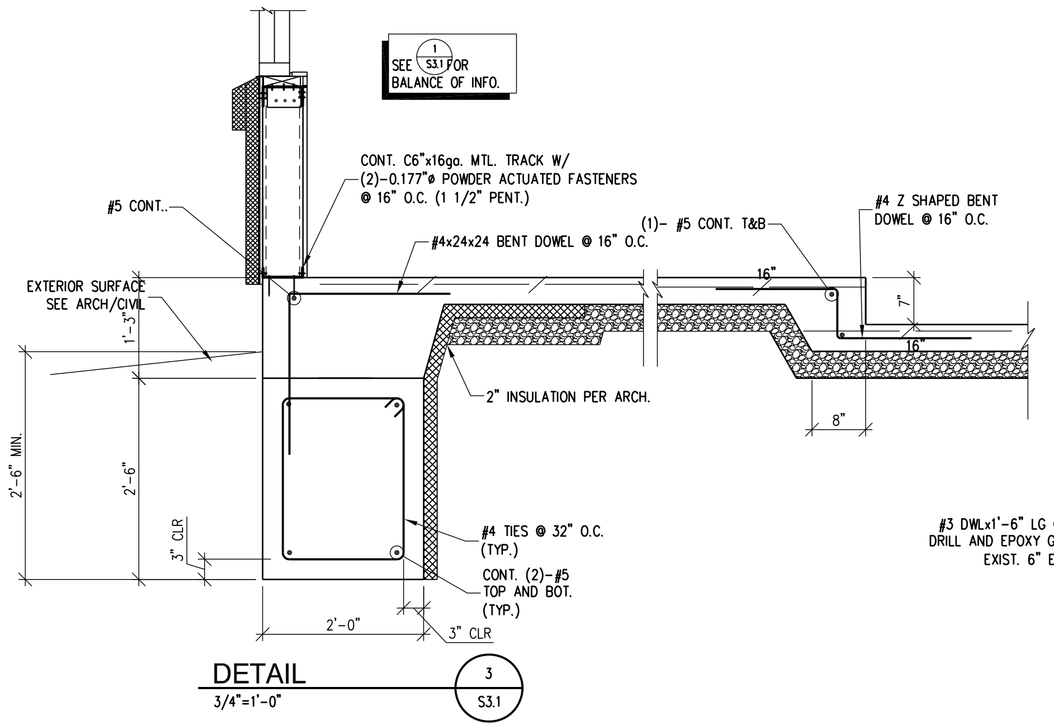
S2.1



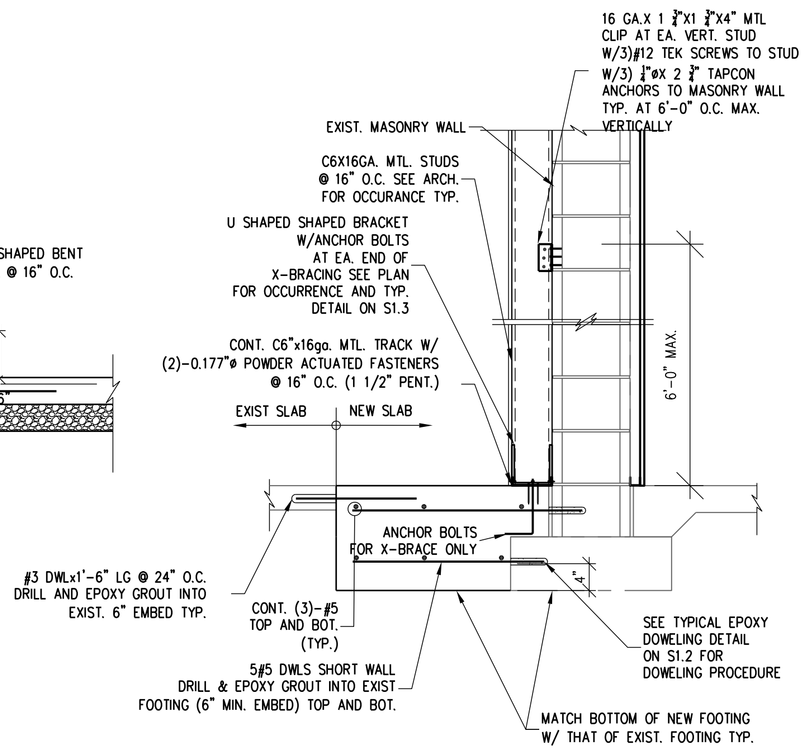
DETAIL 3/4"=1'-0" — 1 / S3.1



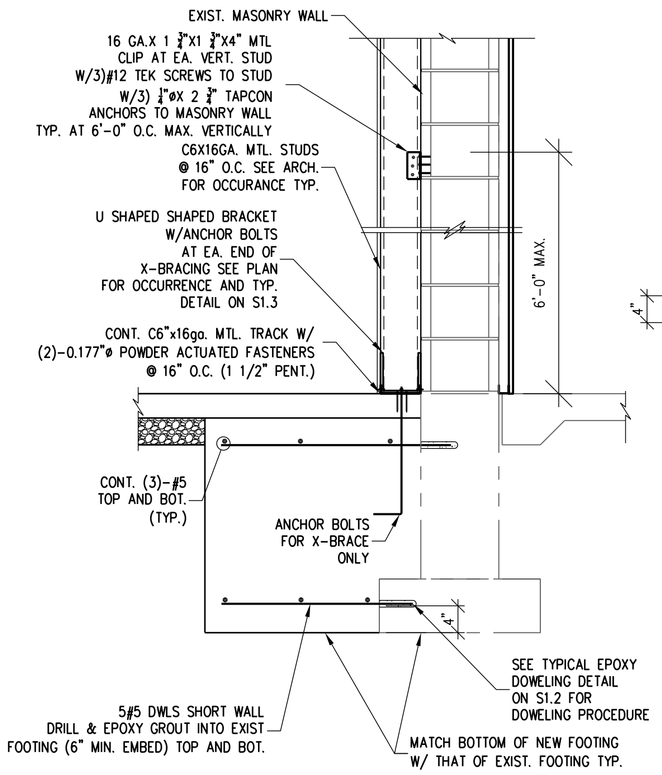
DETAIL 3/4"=1'-0" — 2 / S3.1



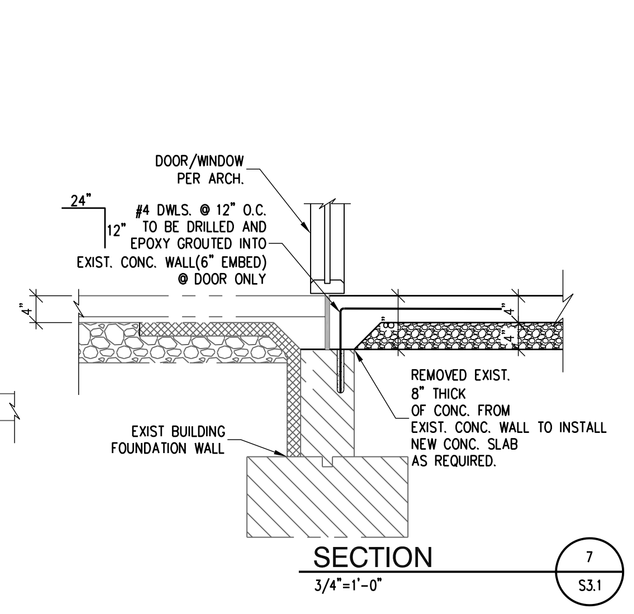
DETAIL 3/4"=1'-0" — 3 / S3.1



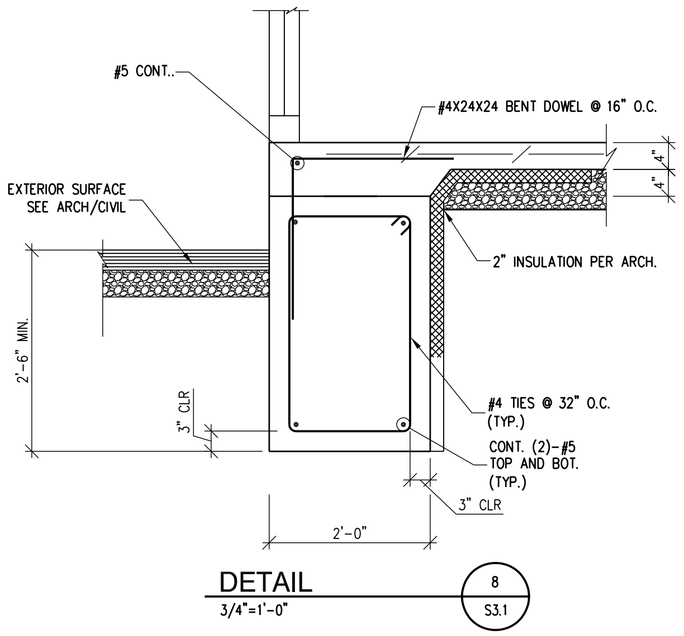
DETAIL 3/4"=1'-0" — 4 / S3.1



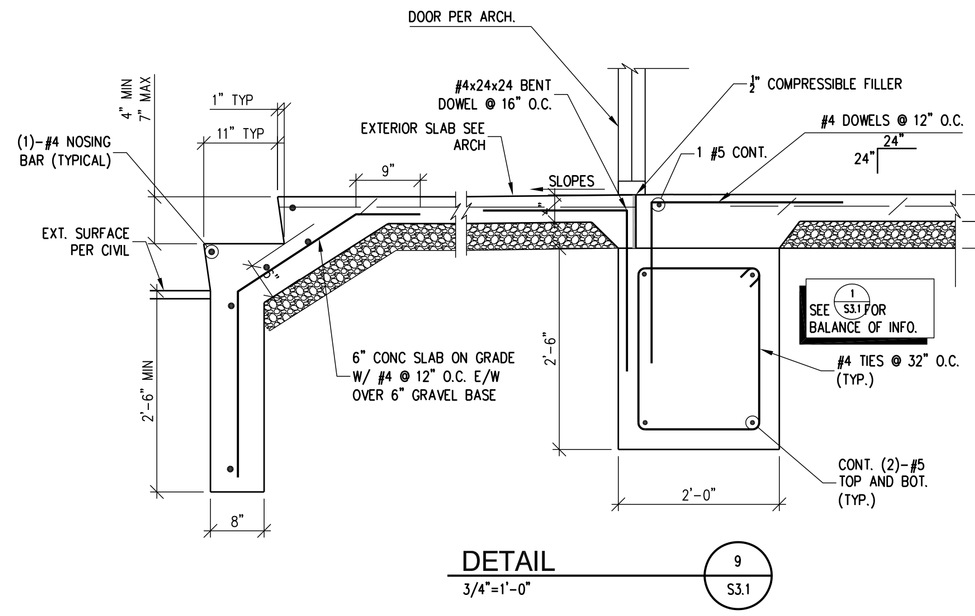
DETAIL 3/4"=1'-0" — 5 / S3.1



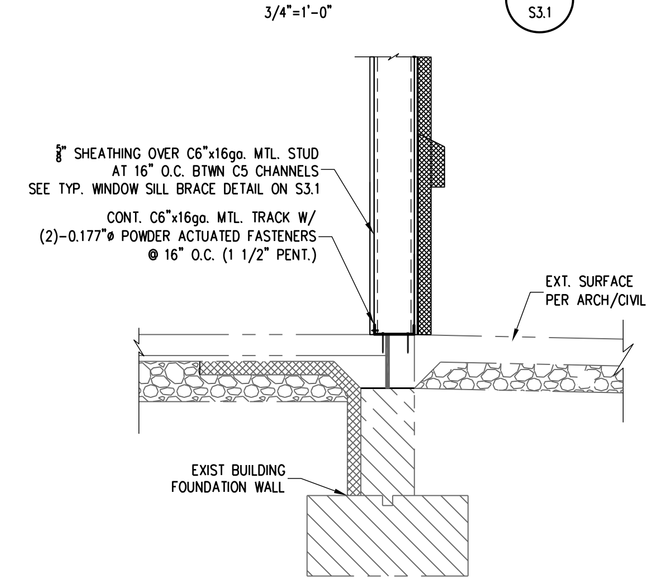
SECTION 3/4"=1'-0" — 7 / S3.1



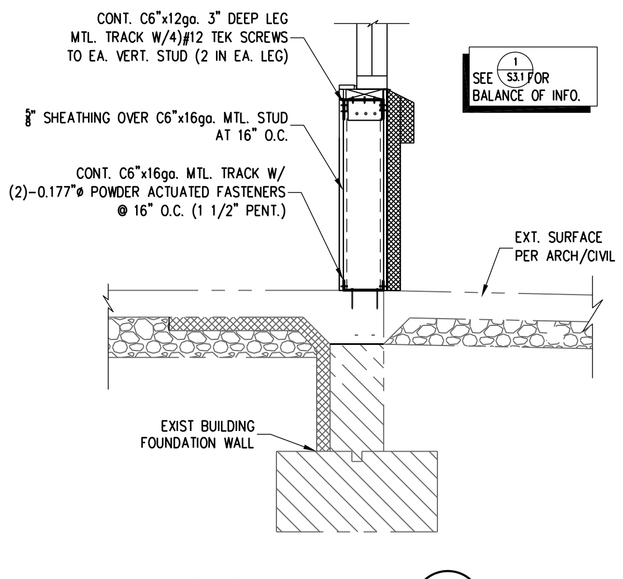
DETAIL 3/4"=1'-0" — 8 / S3.1



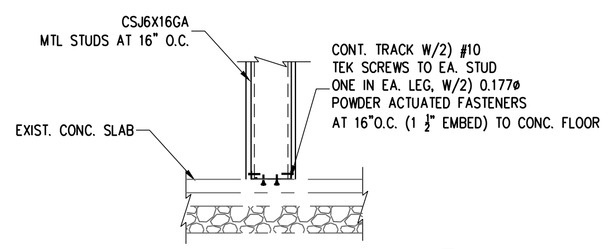
DETAIL 3/4"=1'-0" — 9 / S3.1



SECTION 3/4"=1'-0" — 10 / S3.1



SECTION 3/4"=1'-0" — 11 / S3.1



SECTION 3/4"=1'-0" cox ct. — 12 / S3.1

3/18/2021 1:47 PM

3-18-2021
XIQUAN SHA NUMBER E-28855
STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER

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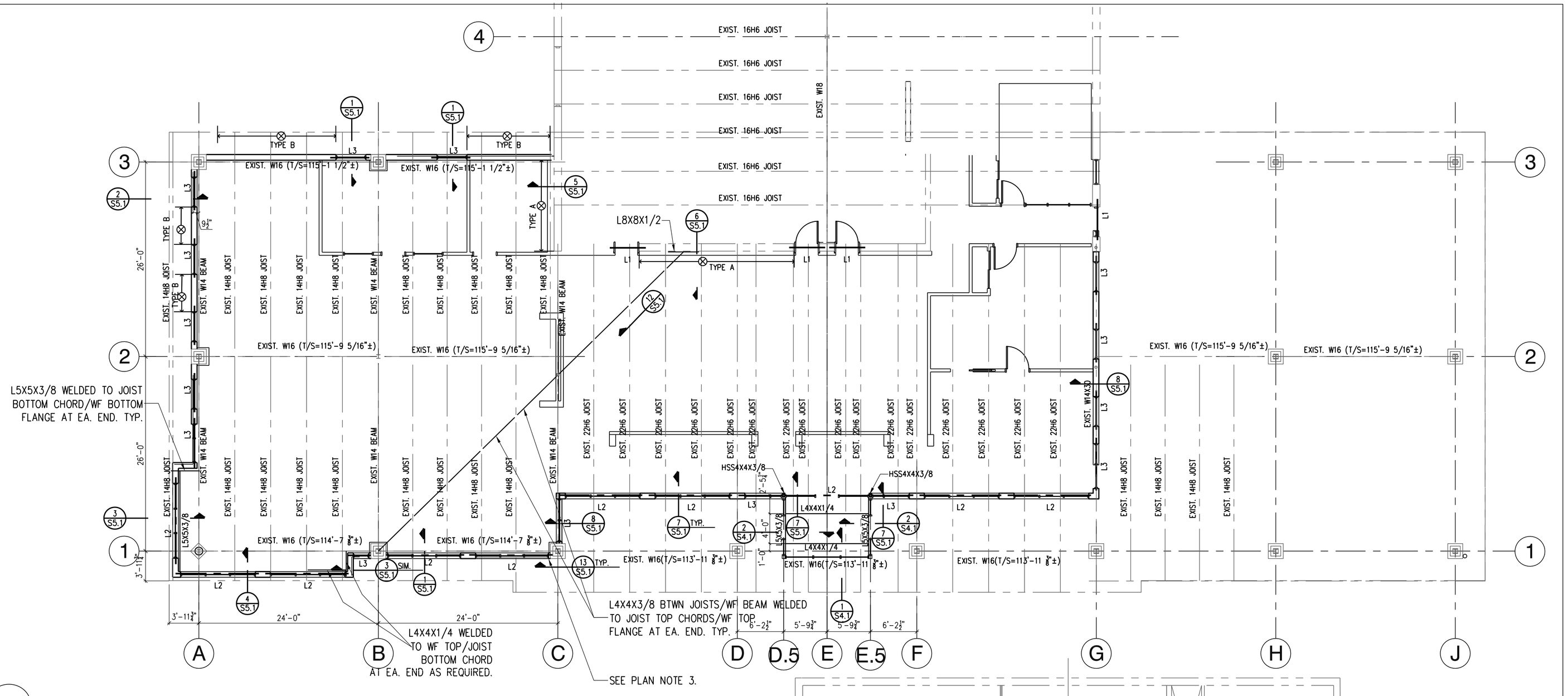
USED CAR BUILDING RENOVATIONS

5655 S LINDBERGH BLVD
ST. LOUIS, MO, 63123

Dave Sinclair Buick - GMC
BUICK | GMC

PROJECT NUMBER:
20034.00

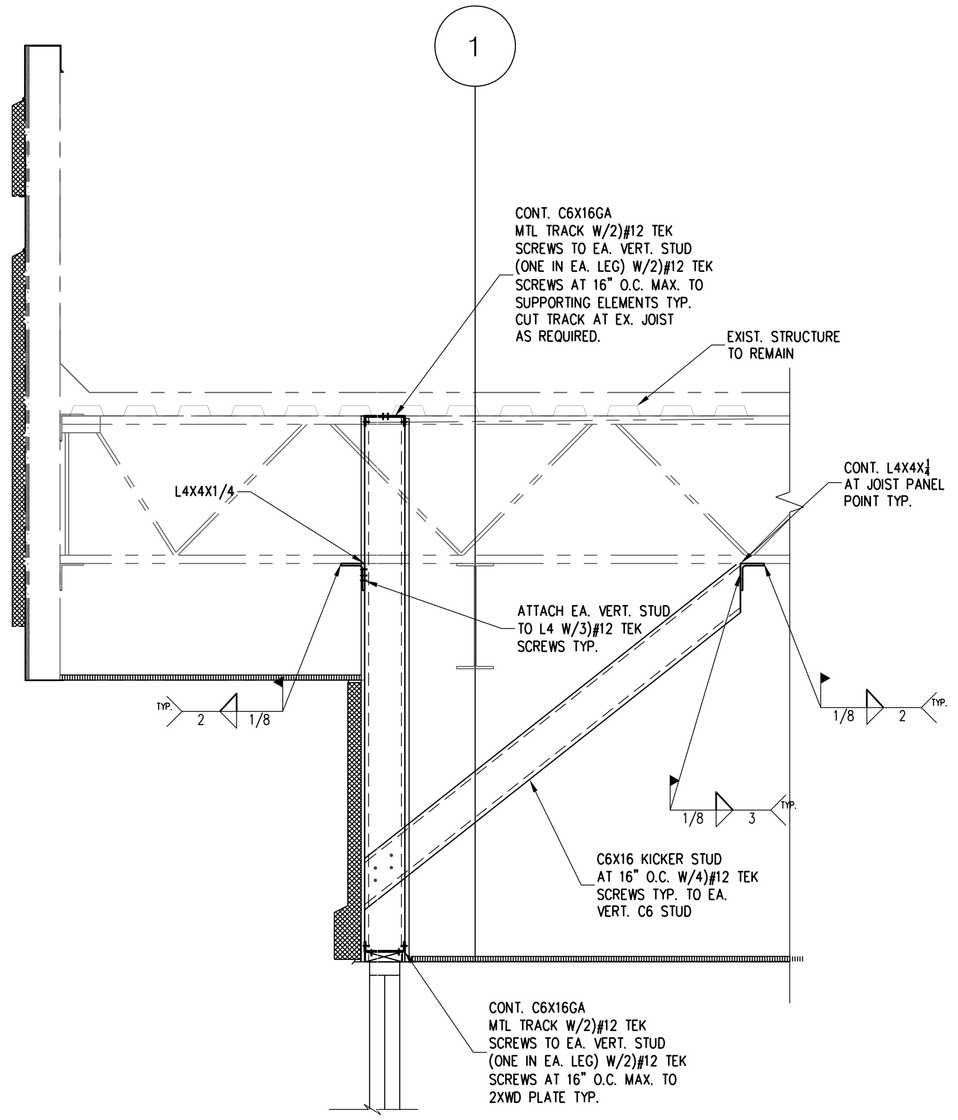
S3.1



ROOF FRAMING PLAN

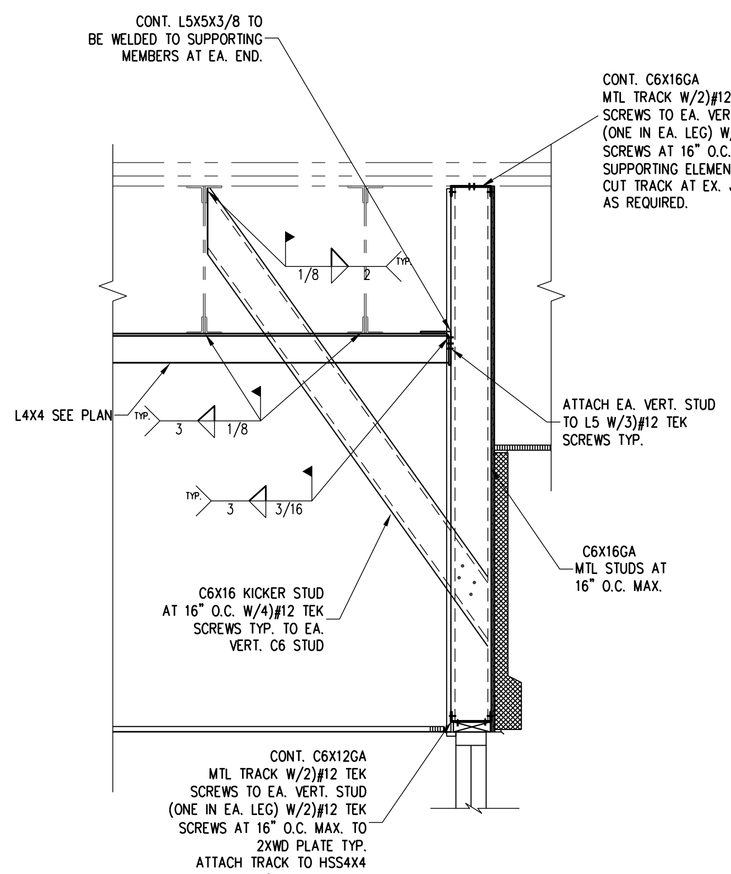
1/8"=1'-0"

1. FOR GENERAL NOTES AND TYPICAL DETAILS SEE SHEET S1.1 TO S1.3.
2. ⊗ DENOTES LOCATION OF STRAP "X-BRACING". SEE DETAILS ON DRAWING S1.3.
3. 2)CSJ6X14GA BUILT-UP AGAINST EXIST. BRICK PIER AT EA. END OF WINDOW OPENINGS TYP.



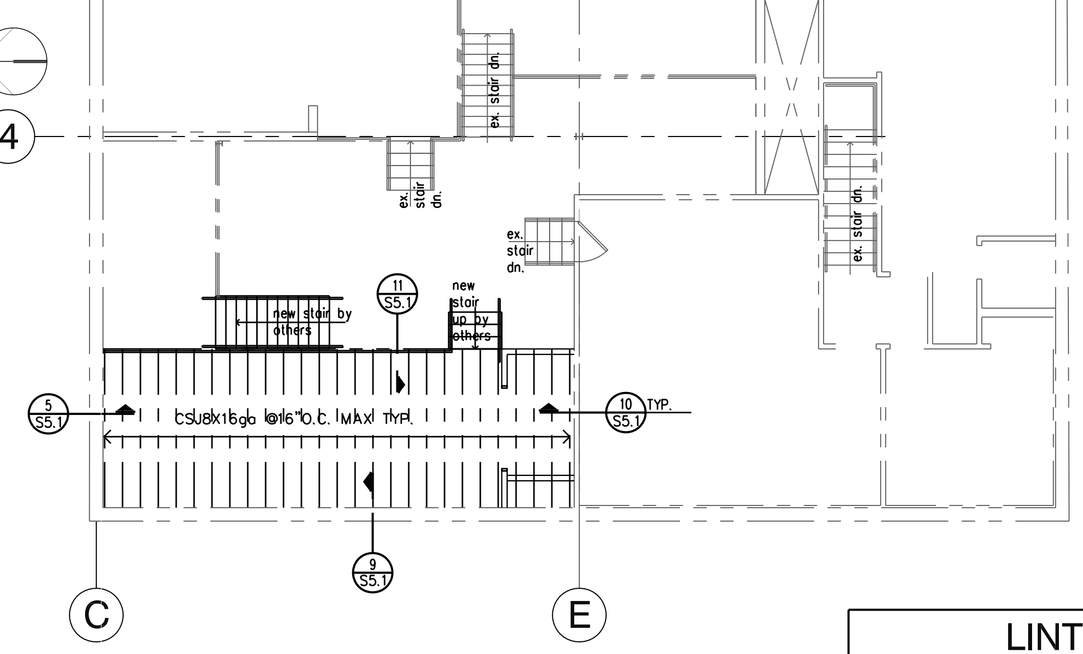
SECTION 1 / S4.1

3/4"=1'-0"



SECTION 2 / S4.1

3/4"=1'-0"



MEZZANINE FRAMING PLAN

1/8"=1'-0"

1. FLOOR CONSTRUCTION: 3/4" T&G PLYWOOD OR ORIENTED STRAND BOARD (EXPOSURE 1, EXTERIOR GLUE, 48/24 APA SPAN RATING) ON C JOISTS. FASTEN PLWYOOD TO SUPPORTING FRAMING WITH FLAT HAT #12 TEK SCREWS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. AT INTERIOR.
2. FINISH FLOOR ELEVATION = SEE ARCH.
3. FOR GENERAL NOTES AND TYPICAL DETAILS SEE SHEET S1.1 TO S1.3.

LINTEL SCHEDULE

MARK	SIZE	DESCRIPTION
L1	2)L5X5X3/8	
L2	3)CSJ6X16GA STUDS + 1)C6X16GA MTL TRACK BOXED HEADER	
L3	2)CSJ 5/8X16GA STUDS + 1)C6X16GA MTL TRACK BOXED HEADER	
L4		

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3-18-2021
STATE OF MISSOURI
REGISTERED
XIQUAN SHA
NUMBER E-28855
PROFESSIONAL ENGINEER

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USED CAR BUILDING RENOVATIONS

5655 S LINDBERGH BLVD
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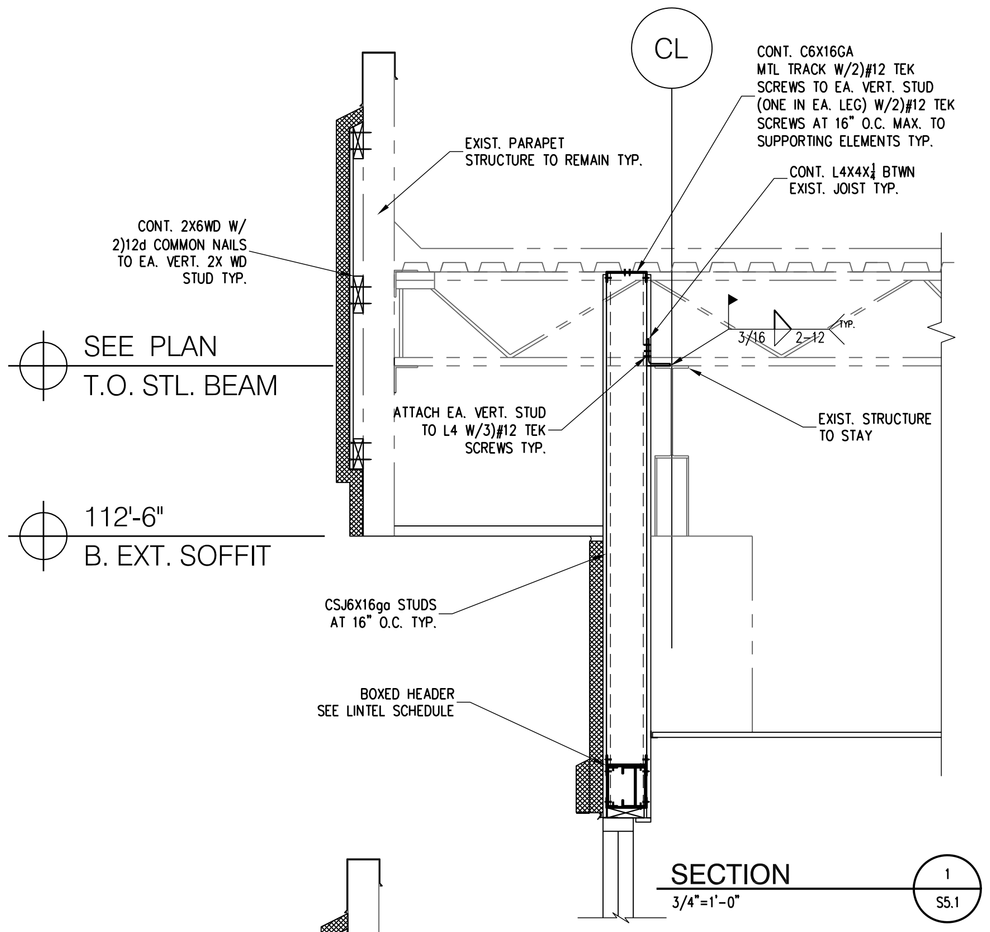
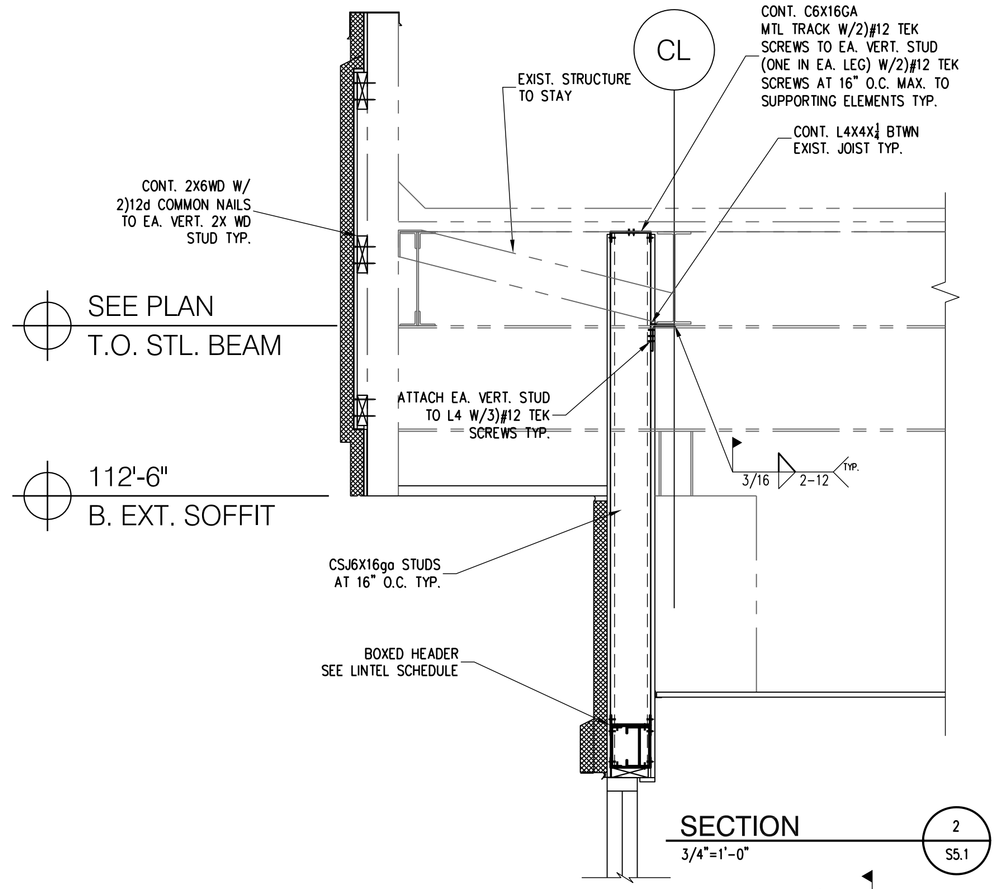
Dave Sinclair Buick - GMC
BUICK | GMC

PROJECT NUMBER:
20034.00

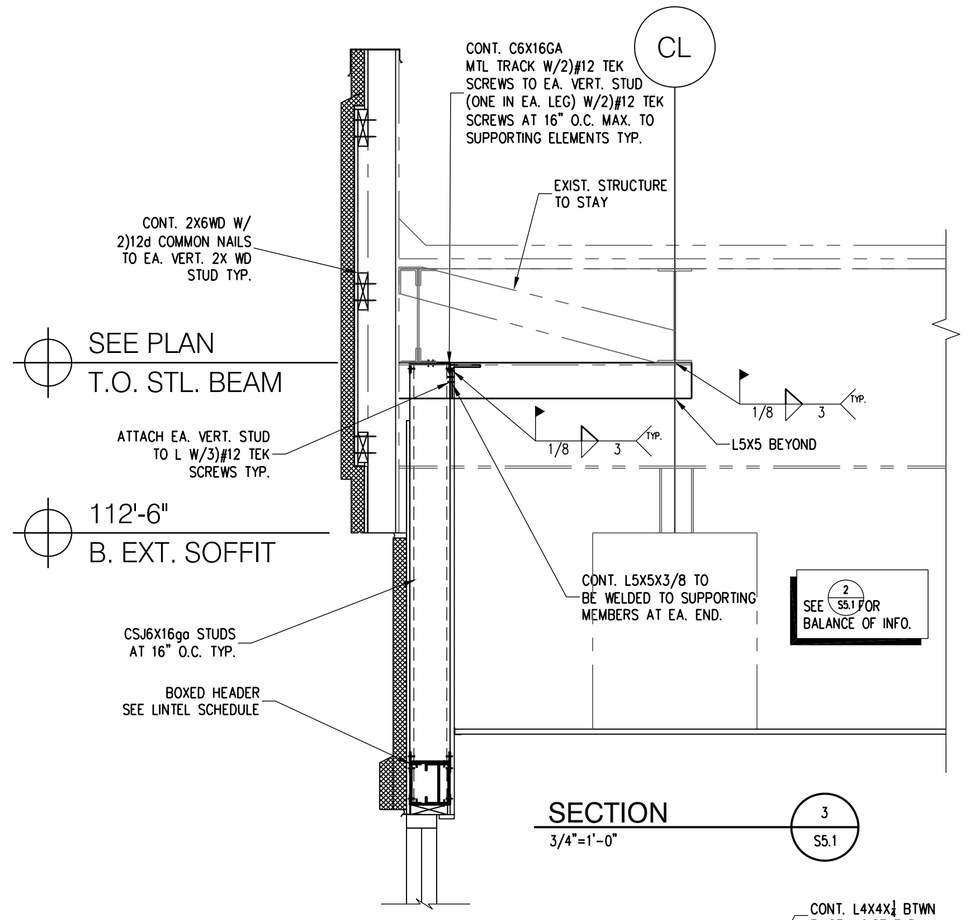
S4.1



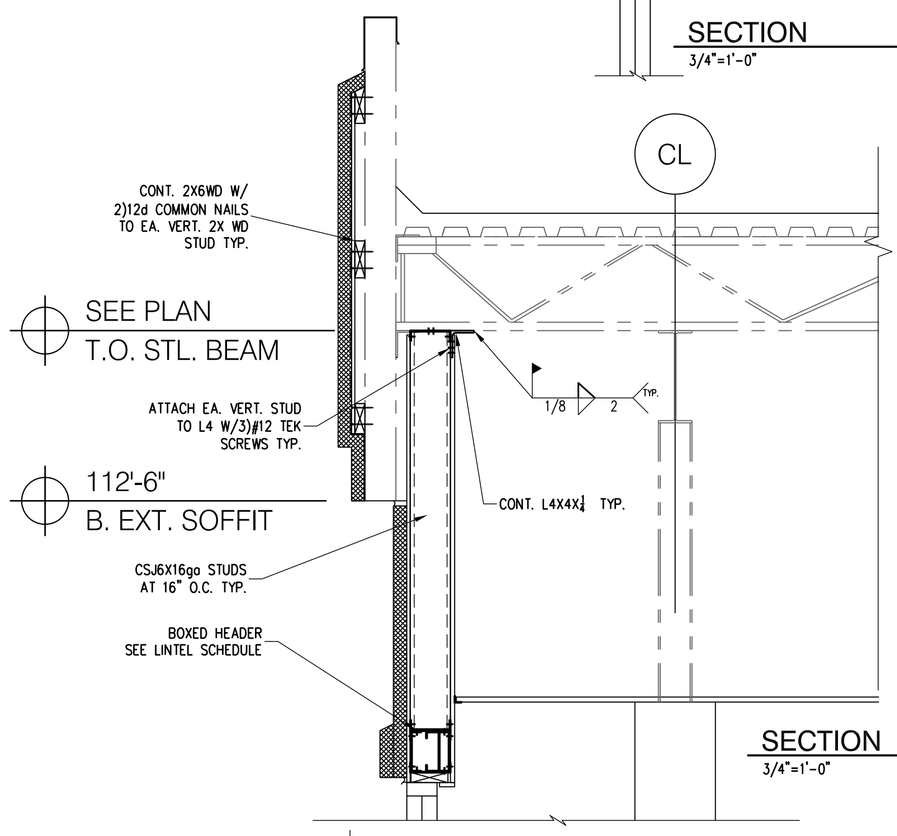
SECTION 1 S5.1
3/4"=1'-0"



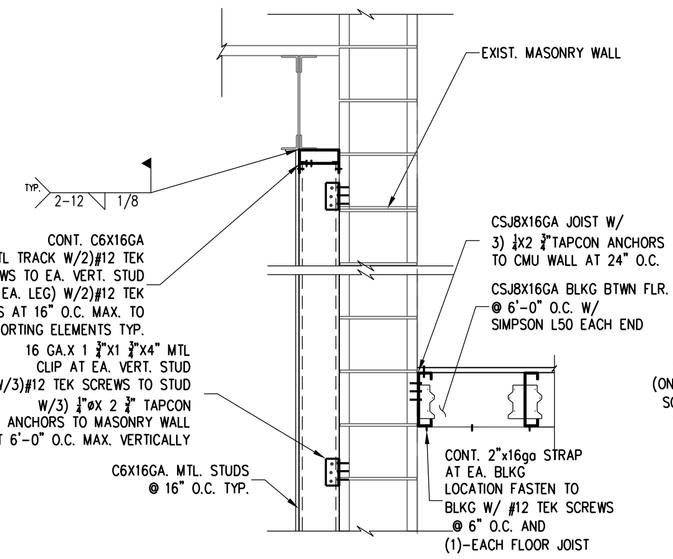
SECTION 2 S5.1
3/4"=1'-0"



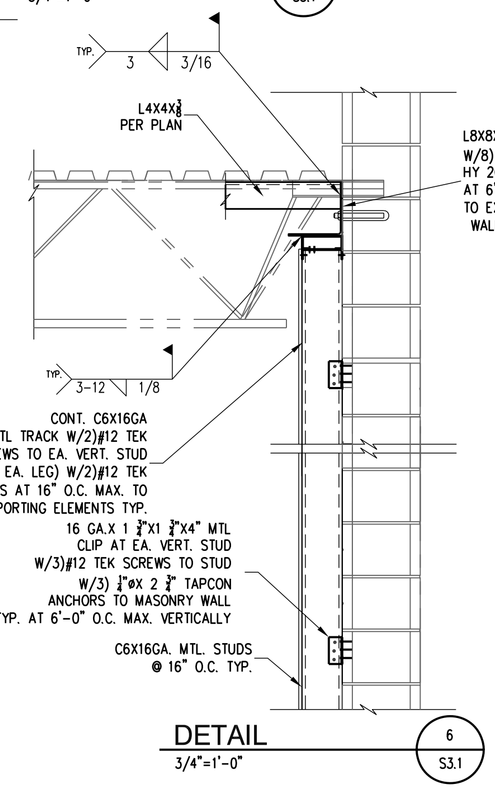
SECTION 3 S5.1
3/4"=1'-0"



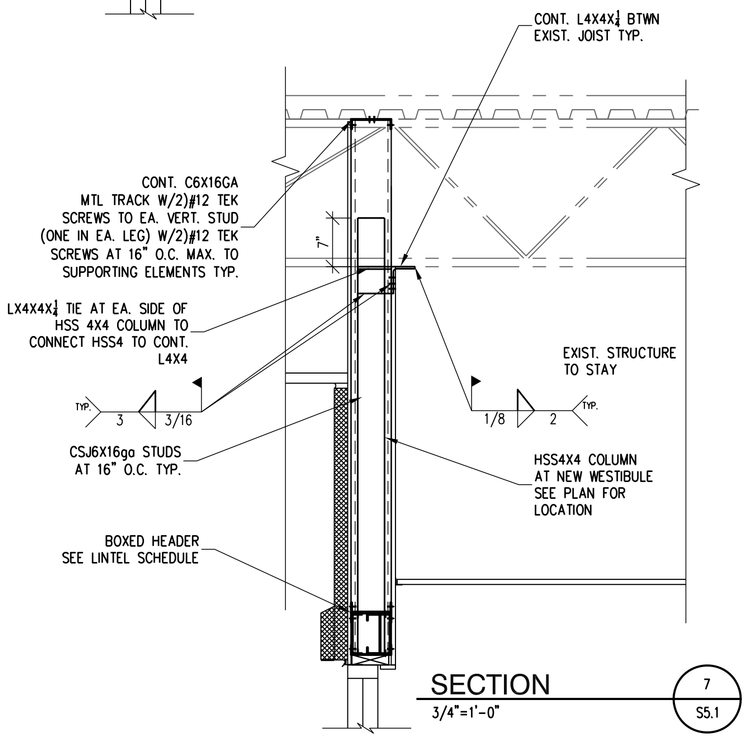
SECTION 4 S5.1
3/4"=1'-0"



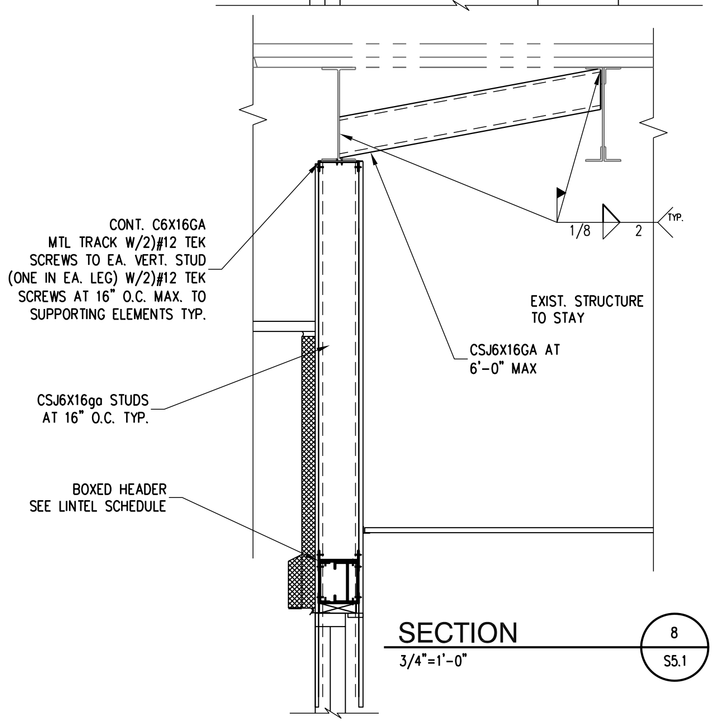
DETAIL 5 S3.1
3/4"=1'-0"



DETAIL 6 S3.1
3/4"=1'-0"



SECTION 7 S5.1
3/4"=1'-0"



SECTION 8 S5.1
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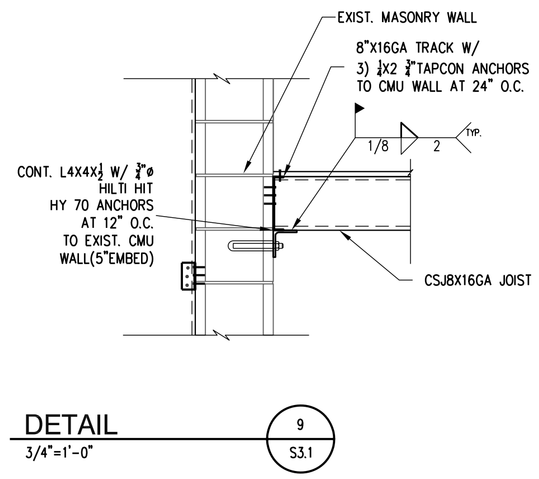
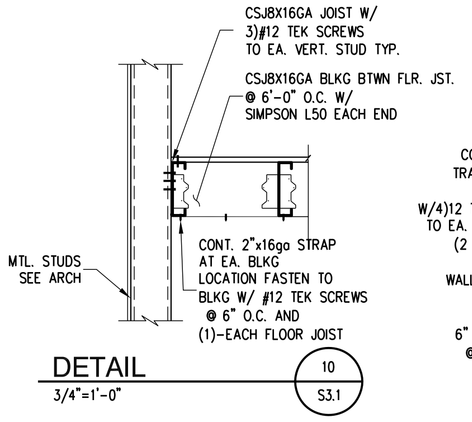


DETAIL 9 S3.1
3/4"=1'-0"



DETAIL 10 S3.1
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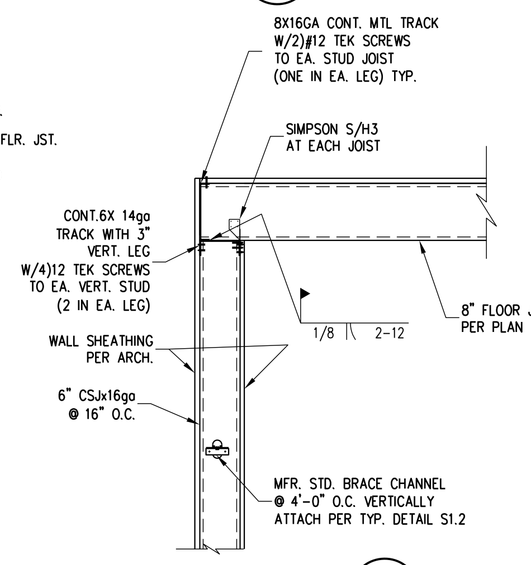
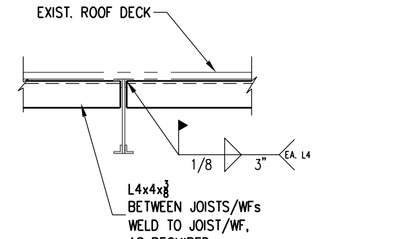
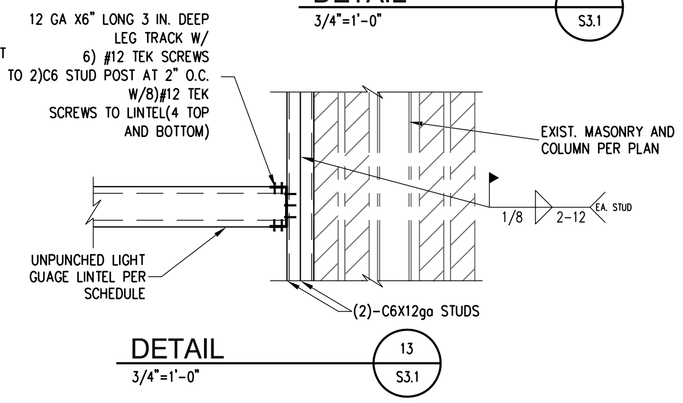


DETAIL 11 S3.1
3/4"=1'-0"



DETAIL 12 S3.1
3/4"=1'-0"



DETAIL 13 S3.1
3/4"=1'-0"

3/18/2021 1:48 PM

3-19-2021
STATE OF MISSOURI
XIQUAN SHA
NUMBER E-28853
REGISTERED PROFESSIONAL ENGINEER

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S5.1