

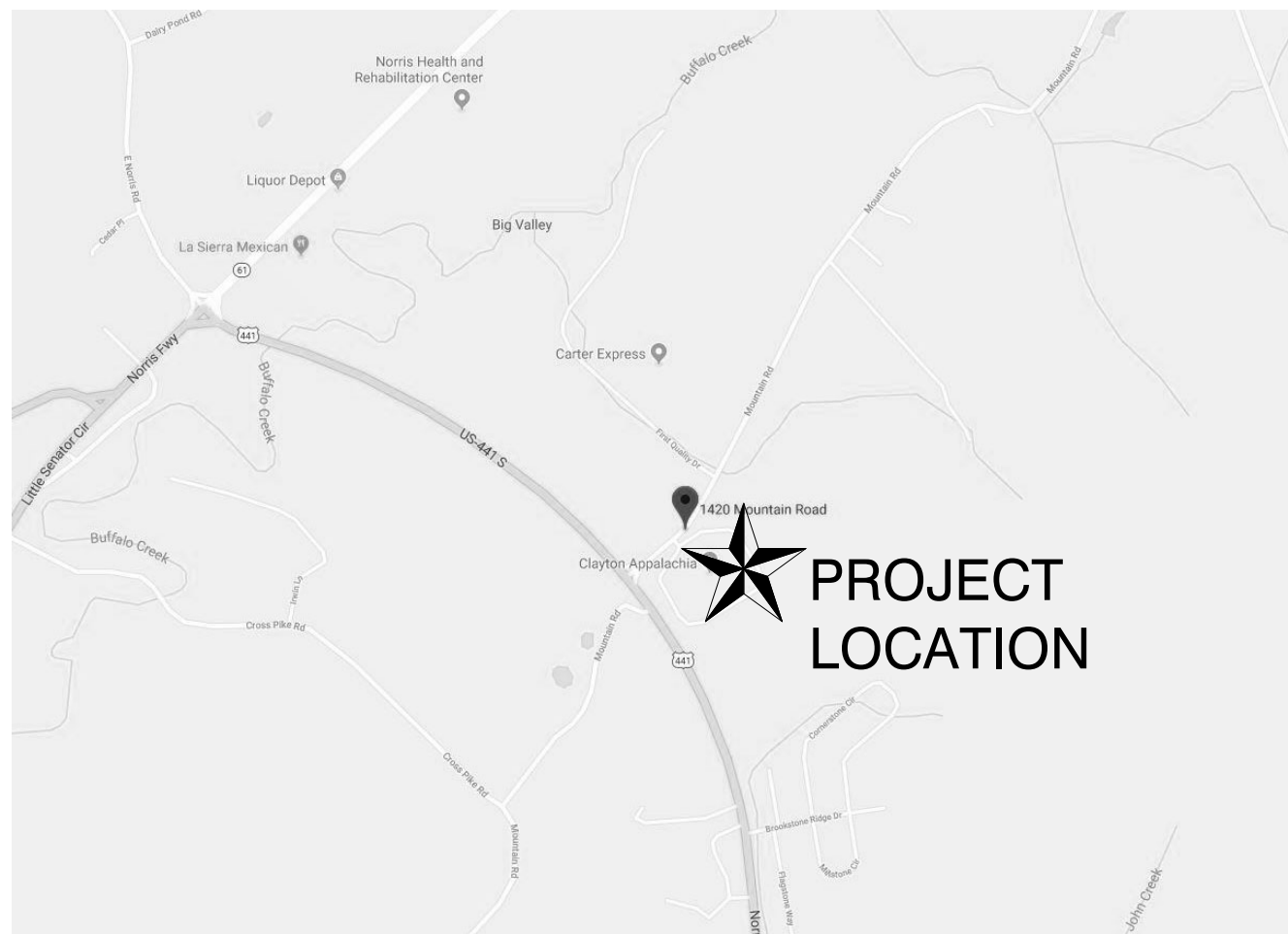
# CLAYTON ADDISON MANUFACTURING FACILITY (944)

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

## ABBREVIATIONS:

AFF	- ABOVE FINISH FLOOR	MTL	- METAL
ALT	- ALTERNATE	MG	- MANUFACTURING
ALUM	- ALUMINUM	MFR	- MANUFACTURER
ARCH	- ARCHITECTURAL	MIN	- MINIMUM
ACT	- ACOUSTICAL TILE CEILING	MISC	- MISCELLANEOUS
ASPH	- ASPHALT	NIC	- NOT IN CONTRACT
BF	- BOTTOM FACE	NTS	- NOT TO SCALE
BSMT	- BASEMENT	NO. #	- NUMBER
BM	- BENCH MARK	OC	- ON CENTER
BLDG	- BUILDING	OD	- OUTSIDE DIAMETER
BLK	- BLOCK	P	- PLATE
BRG	- BEARING	PLAS	- PLASTIC
CB	- CATCH BASIN	P LAM	- PLASTIC LAMINATE
CJ	- CONTROL JOINT	PLYWD	- PLYWOOD
CHB	- CHALK BOARD	PTD	- PAINTED
CLG	- CEILING	RAD,R	- RADIUS
CLOS, CL	- CLOSET	RD	- ROOF DRAIN
CLR	- CLEAR	REINF	- REINFORCING
COL	- COLUMN	REQD	- REQUIRED
COMP	- COMPOSITION	RS	- RISER
CONC	- CONCRETE	RM	- ROOM
CONST	- CONSTRUCTION	RO	- ROUGH OPENING
CMU	- CONCRETE MASONRY UNIT	SCHED	- SCHEDULE
CT	- CERAMIC TILE	SCWD	- SOLID CORE WOOD
DTL	- DETAIL	SECT	- SECTION
D, DIA	- DIAMETER	SHT	- SHEET
DN	- DOWN	SIM	- SIMILAR
DWG	- DRAWING	SPECS	- SPECIFICATIONS
DF	- DRINK FOUNTAIN	SOFT / SF	- SQUARE FEET
DS	- DOWNSPOUT	STD	- STANDARD
EA	- EACH	STL	- STEEL
EF	- EACH FACE	STOR	- STORAGE
ELEC	- ELECTRIC	SD	- STORM DRAIN
EWIC	- ELECTRIC WATER COOLER	SUSP	- SUSPENDED
ELEV	- ELEVATION	SQ	- SQUARE
EXIST	- EXISTING	TB	- TACK BOARD
EXT	- EXTERIOR	THOLD	- THRESHOLD
EJ	- EXPANSION JOINT	TLT	- TOILET
FE	- FIRE EXTINGUISHER	TD, TDS	- THREAD (S)
FL	- FLOOR	TF	- TOP FACE
FD	- FLOOR DRAIN	TYP	- TYPICAL
FT	- FOOT	U	- URINAL
FTNG	- FOOTING	UF	- VERIFY IN FIELD
GALV	- GALVANIZED IRON	VS	- VENT STACK
GA	- GAUGE	VOL	- VOLUME
GYP	- GYPSUM	VT	- VINYL TILE
HB	- HOSE BIB	VERT	- VERTICAL
HCWD	- HOLLOW CORE WOOD	WSCOT	- WAINSCOT
HDW	- HARDWARE	WC	- WATER CLOSET
HGT	- HEIGHT	WH	- WATER HEATER
HM	- HOLLOW METAL	WPFG	- WATERPROOFING
ID	- INSIDE DIAMETER	WF	- WIDE FLANGE
IN	- INCH	WDW	- WINDOW
INV	- INVERT	WD	- WOOD
JAN	- JANITOR	WJ	- WITH
JST	- JOIST	WWF	- WELDED WIRE FABRIC
LAV	- LAVATORY	WWM	- WELDED WIRE MESH
IB	- POUND	L	- ANGLE
MH	- MANHOLE	@	- AT
MAX	- MAXIMUM	C	- CHANNEL
MECH	- MECHANICAL	ø	- DIAMETER

## VICINITY MAP:



## MATERIALS LEGEND:

CONCRETE BLOCK	CONCRETE IN SECTION	RIGID INSULATION, EIFS AS NOTED
BRICK	SOIL IN SECTION	PLYWOOD
METAL IN SECTION	CRUSHED STONE	FINISH WOOD
GYP, BOARD, PLASTER, OR CONCRETE IN PLAN AS NOTED	BATT INSULATION	WOOD FRAMING

## PROJECT DIRECTORY:

OWNER: CLAYTON HOMES BRAD JARRETT 3916 FOUNTAIN VALLEY ROAD KNOXVILLE, TN 37916 865-922-9075 BRAD.JARRETT@CLAYTONHOMES.COM	MECHANICAL ENGINEER: MICHAEL BRADY INC. JOHN BUCHANAN 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 JOHN@MBICOMPANIES.COM	CIVIL ENGINEER: MICHAEL BRADY INC. DAVID MATLOCK 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 DAVID@MBICOMPANIES.COM
ARCHITECT: MICHAEL BRADY INC. ERIN HARLOW 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 ERINH@MBICOMPANIES.COM	ELECTRICAL ENGINEER: MICHAEL BRADY INC. STEVE WALKER 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 STEVE@MBICOMPANIES.COM	STRUCTURAL ENGINEER: MICHAEL BRADY INC. M. EDDIE JETT 299 N. WEISGARBER RD. KNOXVILLE, TN 37919 865-584-0999 EDDIEJ@MBICOMPANIES.COM

## LIST OF DRAWINGS:

GENERAL	
G000	COVER SHEET
CIVIL AND SITE ENGINEERING	
C001	CIVIL LEGENDS & NOTES
C100	EROSION PREVENTION AND SEDIMENT CONTROL PLAN PHASE 1
C200	SITE DEMOLITION PLAN
C300	SITE PLAN
C400	GRADING AND DRAINAGE PLAN
C800	CIVIL DETAILS
C801	CIVIL DETAILS
ARCHITECTURAL	
A000	GENERAL NOTES AND ACCESSIBILITY DETAILS
A001	LIFE SAFETY PLAN
A002	DEMOLITION PLAN
A003	INTERIOR WALL TYPES
A101	FIRST FLOOR PLAN
A201	DOOR SCHEDULE, DOOR/FRAME ELEVATIONS & DETAILS
A202	DOOR & WINDOW DETAILS
A203	WINDOW ELEVATIONS AND DETAILS
A301	ROOF PLAN AND DETAILS
A401	EXTERIOR ELEVATIONS
A402	EXTERIOR ELEVATIONS
A501	BUILDING SECTIONS
A502	WALL SECTIONS
A503	WALL SECTIONS
A504	WALL SECTIONS
A601	ENLARGED PLANS AND DETAILS
A701	REFLECTED CEILING PLAN AND DETAILS
A801	MISC. DETAILS AND NOTES

INTERIOR DESIGN	
F101	FINISH FLOOR PLAN
F201	INTERIOR ELEVATIONS
F301	INTERIOR ELEVATIONS

STRUCTURAL ENGINEERING	
S001	STRUCTURAL NOTES
S002	TYPICAL FOUNDATION, SLAB ON GRADE AND CFS DETAILS
S003	TYPICAL STEEL DETAILS
S101	FOUNDATION PLAN
S301	ROOF FRAMING PLAN
S401	ENLARGED STRUCTURAL PLANS
S501	STRUCTURAL DETAILS
S502	STRUCTURAL DETAILS

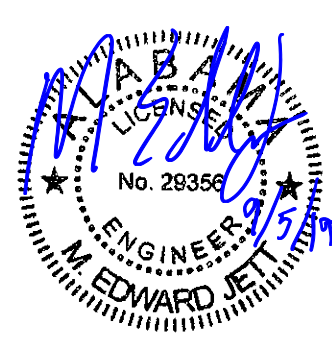
MECHANICAL ENGINEERING	
FP001	FIRE PROTECTION LEGENDS, SPECIFICATIONS, AND NOTES
FP101	FLOOR PLAN - FIRE PROTECTION
M001	HVAC LEGEND, SPECIFICATIONS AND NOTES
M101	FLOOR PLANS - HVAC
M102	ROOF PLAN - HVAC
M201	HVAC SCHEDULES
M301	HVAC DETAILS
P001	LEGEND, SPECIFICATIONS AND NOTES
P100	FLOOR PLAN - DEMO
P101	FLOOR PLANS - SANITARY
P102	FLOOR PLANS - WATER

ELECTRICAL ENGINEERING	
E001	ELECTRICAL LEGENDS AND NOTES
E101	FLOOR PLAN - POWER
E201	FLOOR PLAN - LIGHTING
E301	FLOOR PLAN - COMMUNICATIONS AND FIRE ALARM
E401	RISER DIAGRAM AND LIGHTING FIXTURE SCHEDULE
E402	PANELBOARD SCHEDULES
E501	ELECTRICAL DETAILS
Grand total:	55

CIVIL:



STRUCTURAL:



MECHANICAL:



ELECTRICAL:



# MBI

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CONSULTANT

SEAL



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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

<input type="checkbox"/>	FOR REVIEW ONLY
<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

COVER SHEET

SHEET NO.:

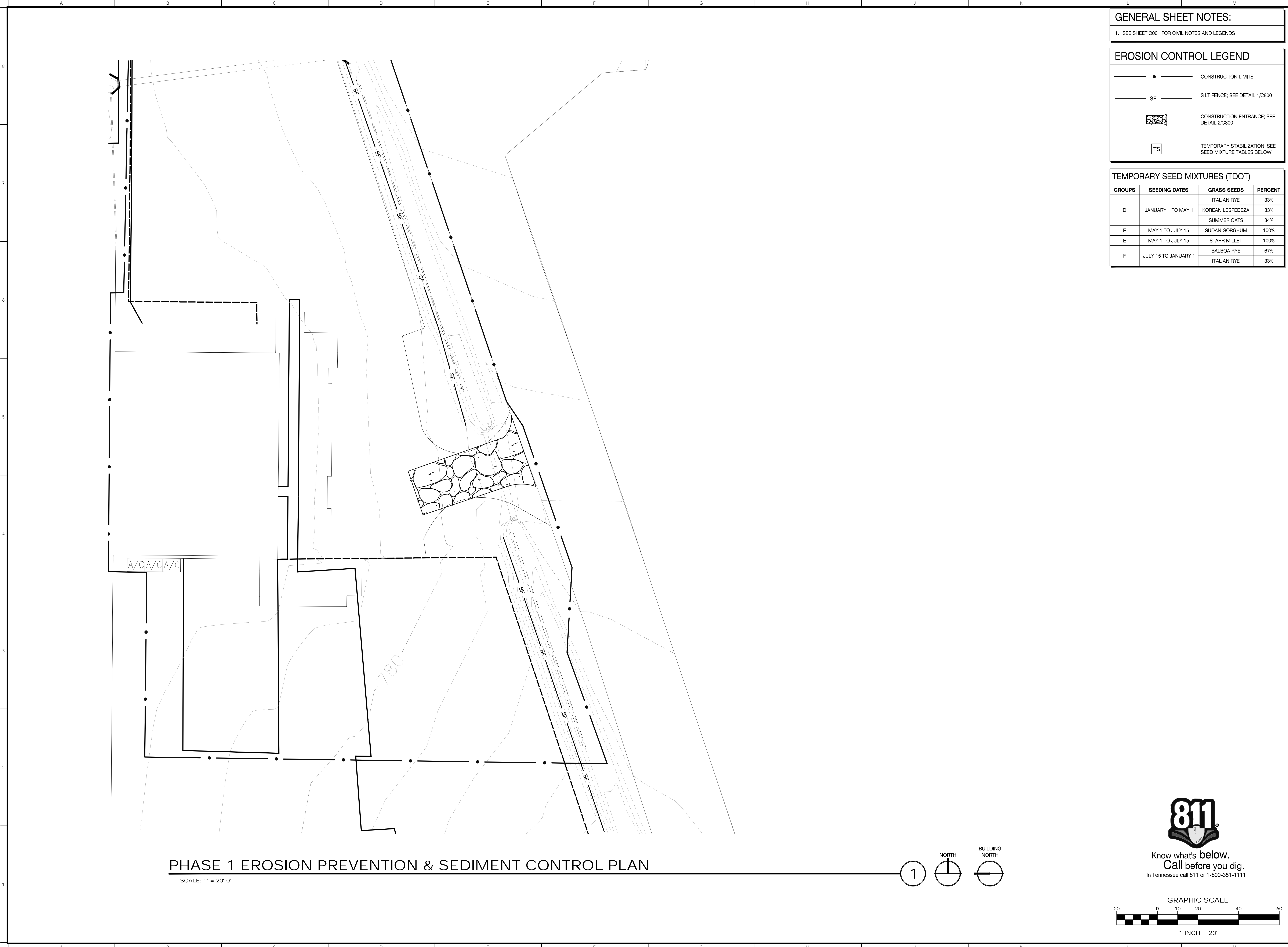
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GENERAL NOTES									
1. COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.O. OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR, 29 CFR 1926 OSHA.									
2. THE APPROPRIATE TRAFFIC CONTROL SIGNS AS DEFINED BY THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, F.H.W.A., 2003" SHALL BE INSTALLED AT THE INCEPTION OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE REMOVED IMMEDIATELY AFTER NEED.									
3. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC.									
4. VERIFY THE LOCATIONS OF ALL PROPOSED ITEMS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY A/E IMMEDIATELY OF ANY DISCREPANCIES BEFORE STARTING WORK. COMMENCEMENT OF CONSTRUCTION AFTER SUCH DISCOVERY SHALL BE AT THE CONTRACTORS RISK.									
5. ANY AREA THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION DURING THE LIFE OF THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.									
DEMOLITION NOTES									
1. DO ALL DEMOLITION WORK REQUIRED TO REMOVE EXISTING MASONRY WALLS, PAVING, FOUNDATIONS, CONCRETE SLABS, EXISTING UNDERGROUND PIPING, CONDUIT, BUILDING FINISHES, DOORS, WINDOWS AS SHOWN ON THE DRAWINGS AND ANY OTHER NECESSARY ITEMS TO INSTALL THE PROPOSED WORK.									
2. CONTRACTORS SUBMITTING PROPOSALS SHALL DETERMINE THE QUANTITIES OF DEMOLITION WORK REQUIRED BY FIELD INVESTIGATION OF THE BUILDING AND SITE.									
3. SUBMIT A DEMOLITION SCHEDULE TO THE PROJECT MANAGER PRIOR TO EXECUTION OF THE WORK. INDICATE PROPOSED METHOD AND SEQUENCE OF OPERATIONS, INCLUDING PROPOSAL FOR CONTROL OF DUST AND NOISE, AND COORDINATION FOR SHUT-OFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.									
4. MAINTAIN TEMPORARY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC. REMOVE BARRICADES WHEN NO LONGER REQUIRED.									
5. CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATIVE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.									
6. EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING DEMOLITION OPERATIONS.									
7. DO NOT INTERRUPT EXISTING UTILITIES USED OR OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATIVE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES.									
8. LOCATE, IDENTIFY, SHUT OFF, CAP AND DISCONNECT UTILITIES AT PROPERTY LINE OR VALVE AS REQUIRED. PROVIDE BY-PASS CONNECTIONS AS REQUIRED TO MAINTAIN SERVICES TO ADJACENT PROPERTIES AND FACILITIES. PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO PROPERTY OWNERS IF SHUT-DOWN OF SERVICES IS REQUIRED DURING THE CHANGE-OVER.									
9. COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK.									
10. REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS OFF-SITE.									
11. BURYING OR BURNING OF MATERIALS ON THE PROJECT SITE IS FORBIDDEN.									
12. AVAILABILITY FOR DEMOLITION MUST BE COMPLETED BY OWNER JUST PRIOR TO DEMOLITION.									
13. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED.									
14. HISTORIC ARTIFACTS, INCLUDING CORNERSTONES, THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, ANTIQUES, AND OTHER ITEMS OF SIGNIFICANCE SHALL REMAIN THE PROPERTY OF THE OWNER. NOTIFY OWNERS REPRESENTATIVE IF SUCH ARTICLES ARE ENCOUNTERED. OBTAIN APPROVAL REGARDING METHOD OF REMOVAL. SALVAGE SUCH ARTICLES AND TURN OVER TO OWNER.									
15. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH APPLICABLE REGULATIONS IN HANDLING, REMOVING, AND PROTECTING AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.									
16. REGRADE ALL AREAS WHERE DEMOLITION HAS OCCURRED, PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADING, THERE SHALL NOT BE ANY VOIDS, PITS, OR MOUNDING OF EARTHWORK.									
SITE NOTES									
1. WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE CUT IN A NEAT STRAIGHT LINE THROUGH PAVEMENT AND BASE. PROVIDE A SMOOTH TRANSITION.									
2. INSTALL EXPANSION JOINT MATERIAL BETWEEN NEW AND EXISTING CONCRETE AND/OR ASPHALT.									
3. MAINTAIN AND PROTECT EXISTING PAVEMENT OR GRAVEL SURFACES WHICH ARE TO REMAIN. CONTRACTOR SHALL REPLACE DAMAGED AREAS, MATCHING DEPTH, MATERIAL AND GRADE TO EXISTING SURFACES.									
4. DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTER OF COLUMM, EDGE OF BUILDINGS EXTERIOR OR CENTER OF PAINTED STRIPES.									
5. SIDEWALK AND PAVING JOINTS ARE SHOWN FOR REFERENCE ONLY. REVIEW JOINT LAYOUT WITH ALL SPECIFICATIONS AND DETAILS BEFORE POURING CONCRETE.									
SURVEY NOTES									
1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PREPARED BY <b>SMW ENGINEERING GROUP, 158 BUSINESS CENTER DRIVE, BIRMINGHAM AL 35244. SURVEY PERFORMED xxxxx2018</b> .									
2. COORDINATES ARE IN FEET AND REFERENCE TO <b>ALABAMA STATE PLANE SYSTEM OF 1983</b> .									
3. BEARINGS SHOWN ARE BASED ON MAGNETIC NORTH.									
4. THE VERTICAL DATUM IS BASED ON <b>THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)</b> .									
5. FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ON DRAWINGS ARE APPROXIMATE IN DEPTH AND LOCATION. REPAIR EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.									
GRADING NOTES									
1. FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPANCIES.									
2. THE MINIMUM SLOPE FOR PARKING, SIDEWALKS, AND LANDSCAPED AREAS IS 1%. FIELD VERIFY MINIMUM SLOPE IS ACHIEVED.									
3. MAXIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%. MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE SIDEWALKS AWAY FROM BUILDING AT 1½% CROSS SLOPE UNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE CANNOT EXCEED 2% IN ANY CASE.									
4. UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN REPRESENT FINISHED GRADES. ADJUST FOR PAVEMENT THICKNESS, TOPSOIL, ETC.									
5. ADJUST DRAINAGE STRUCTURE TOPS AS NECESSARY TO MATCH FINAL GRADES.									
6. NO SLOPE SHALL BE STEEPER THAN 2(H):1(V).									
7. ALL EARTHWORK SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM:									
A. FOLLOW RECOMMENDATIONS OF THE PROJECT SUBSURFACE INVESTIGATION REPORT. REPORT ANY CONTRADICTIONS TO THE PROJECT MANAGER. SOIL EXCAVATION SHALL BE CONSIDERED AS UNCLASSIFIED.									
B. OBTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND SEALED BY AN ENGINEER, STATING THAT ALL EARTHWORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SUBSURFACE INVESTIGATION REPORT AND SOILS ARE CAPABLE OF SUPPORTING THE STRUCTURE AND IMPROVEMENTS.									
C. SUBMIT SOIL SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER.									
D. SOIL FOR COMPACTED BACKFILL AND ENGINEERED FILL SHALL CONSIST OF CLEAN GRANULAR SOILS, CLAY SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 35 AND A MINIMUM DENSITY OF 90 POUNDS PER CUBIC FOOT WHEN COMPACTED TO ONE HUNDRED PERCENT (100%) OF ITS MAXIMUM DRY DENSITY PER STANDARD PROCTOR TEST. (ASTM D698) MATERIAL SHALL BE FREE OF VEGETATION, ROOTS, ROCKS LARGER THAN 2" IN ANY DIMENSION, DEBRIS AND OTHER DELETERIOUS MATERIALS. RESIDUAL SOIL EXCAVATED AT THE SITE MAY BE USED FOR BACKFILL IF IT MEETS THE SPECIFICATION REQUIREMENTS. THE MOISTURE CONTENT OF THE FILL SOILS SHOULD BE MAINTAINED WITHIN +3 AND -3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT DETERMINED FROM THE STANDARD PROCTOR COMPACTION TEST.									
E. ALL FILL IN AREAS TO BE OCCUPIED BY THE BUILDING(S) AND PAVING, INCLUDING AN AREA 10 FEET OUTSIDE THE PERIMETERS THEREOF, SHALL BE CONTROLLED (ENGINEERED) FILL AND THE COMPACTION SHALL BE TESTED BY A LICENSED AND QUALIFIED GEOTECHNICAL ENGINEER. CONTROLLED FILL IN AREAS OF BUILDINGS SHALL BE COMPACTED IN MAXIMUM 4' LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698 (STANDARD PROCTOR). FILL IN AREAS OF ASPHALT PAVING SHALL BE COMPACTED IN MAXIMUM 6' LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698. THE UPPER 12 INCHES OF FILL BENEATH PAVEMENTS AND UPPER 24 INCHES BENEATH FOOTINGS AND GRADE SLABS SHALL BE COMPACTED TO 100%. PROVIDE 95% COMPACTION IN ALL OTHER AREAS.									
F. AFTER STRIPPING TOPSOIL, ALL FILL AREAS SHALL BE PROOFROLLED AND MONITORED BY THE PROJECT GEOTECHNICAL ENGINEER.									
G. FILL OUTSIDE OF BUILDING AND PAVEMENT SHALL BE PLACED IN 8" LIFTS IN THE PRESENCE OF A REPRESENTATIVE OF THE SOIL TESTING LAB, COMPAKCTED TO SPECIFIED REQUIREMENTS, AND TESTED EVERY 900 SF FOR EACH LAYER OF FILL. REMEDY ANY INADEQUATELY PLACED FILL TO MEET PROJECT SPECIFICATIONS.									
H. ALL LANDSCAPED AND GRASS AREAS SHALL HAVE A MINIMUM OF 6" OF CLEAN TOPSOIL.									
J. TOLERANCES FOR SURFACES: HARDSCAPE: ± 0.025; LANDSCAPE/GRASSSED AREAS: ± 0.1'									
L. ALL OFFSITE BORROW AND SPOIL SITES, IF REQUIRED, SHALL BE PROPERLY PERMITTED.									
DRAINAGE NOTES									
1. FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS PRIOR TO CONSTRUCTION OR FABRICATION OF PRECAST STRUCTURES.									
2. UNLESS OTHERWISE NOTED, HDPE SHALL BE HANCOUR, LANE HDPE, OR ADS N-12 SMOOTH INTERIOR WALL. HDPE PIPE, PROVIDE #57 STONE BEDDING AND BACKFILL TO PAVEMENT SUBGRADE OR 12" ABOVE PIPE IN GRASS AREAS. ALL PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M252, TYPE S (4'-10') OR AASHTO M294, TYPE S (12'-48"). GASKET SHALL MEET THE REQUIREMENTS OF ASTM F477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321. JOINTS SHALL BE SILT TIGHT AND NON-PARTED WATER TIGHT. GASKETS SHALL BE COVERED WITH A REMOVABLE WRAP BY THE MANUFACTURER TO ENSURE THAT THE GASKET IS FREE FROM DEBRIS.									
3. UNLESS OTHERWISE NOTED, RCP SHALL BE CLASS III CONFORMING TO ASTM C-76 (LATEST REVISION): 'STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE'.									
4. ROOF LEADERS SHALL BE ASTM D3034 SDR 35 PVC WITH GASKET JOINTS. UNLESS OTHERWISE NOTED ON THE PLANS, 4" SHALL BE LAID AT A 2% MINIMUM SLOPE AND 6" SHALL BE LAID AT 1% MINIMUM SLOPE.									
5. COORDINATE WITH GOVERNING AGENCY FOR ALL REQUIRED MATERIAL APPROVALS, INSPECTIONS AND TESTING.									

EROSION CONTROL NOTES	
	UNLESS SHOWN OTHERWISE, ALL DISTURBED AREAS NOT ULTIMATELY RECEIVING A HARD SURFACE SHALL HAVE A MINIMUM DEPTH OF 5" OF TOPSOIL, AND BE STABILIZED WITH GRASS.
	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS AND COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS RELATED TO SITE GRADING, EROSION AND SEDIMENTATION CONTROL, AND STORMWATER RUNOFF.
	FURNISH, ERECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IN CONFORMITY WITH THE ALABAMA EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION, AS PREPARED BY TDEC. SEE PLAN AND DETAILS FOR SPECIFIC EROSION AND SEDIMENTATION CONTROL MEASURES.
	EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THIS PLAN ARE A MINIMUM REQUIREMENT. MAINTAIN, MODIFY AND ADD EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
	ENVIRONMENTAL PERMIT REQUIREMENTS: SHOW COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. PROVIDE ENGINEER AND ADEM WITH COPIES OF ALL REQUIRED PAPERWORK. PERFORM AND PROVIDE ALL MAINTENANCE, INSPECTIONS, RECORD KEEPING, AND REPORTING.
	MAINTAIN A RAIN GAUGE AND RAINFALL RECORDS ON SITE AS REQUIRED BY ADEM.
	EROSION AND SEDIMENTATION CONTROL IMPLEMENTATION:
A.	STAKE THE DISTURBED AREA LIMITS AND UNDISTURBED AREAS IN THE FIELD BEFORE BEGINNING WORK
B.	INSTALL CONSTRUCTION EXIT
C.	TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO THE SITE EROSION AND SEDIMENTATION CONTROL DRAWINGS.
D.	BEGIN SITE GRADING
E.	VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS TREE- OR PLANT- PROTECTION ZONES.
F.	INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
G.	CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND SEDIMENTATION FROM THE PROJECT SITE DURING THE COURSE OF THE PROJECT. OBTAIN PERMISSION AND APPROPRIATE PERMITS TO ACCESS AREAS OUTSIDE THIS SITE.
H.	AFTER FINAL STABILIZATION OF THE SITE, REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
I.	STORMWATER CONTROL: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PROVIDE BARRIERS IN AND AROUND EXCAVATIONS AND SUBGRADE CONSTRUCTION TO PREVENT FLOODING BY RUNOFF OF STORMWATER FROM HEAVY RAINS.
J.	PROJECT MANAGER OR ENGINEER MAY DIRECT CONTRACTOR TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND MAY DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES.
K.	PROVIDE PERMANENT EROSION CONTROL MEASURES AT EARLIEST PRACTICAL TIME TO MINIMIZE REQUIREMENT FOR TEMPORARY EROSION CONTROLS. PERMANENTLY SEED AND MULCH CUT SLOPES AS EXCAVATION PROCEEDS.
L.	MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY CONTRACTOR AS DIRECTED BY PROJECT MANAGER OR ENGINEER TO CONTROL SILTATION AT ALL TIMES THROUGHOUT WORK. PROVIDE MAINTENANCE OR ADDITIONAL WORK DIRECTED BY ENGINEER WITHIN 48 HOURS OF NOTIFICATION BY ENGINEER.
12.	EROSION CONTROL SHALL BE MAINTAINED UNTIL PAVING IS COMPLETED AND LAWNS HAVE BEEN ESTABLISHED. PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENT DAMAGE THROUGHOUT THE LIFE OF THE PROJECT.
13.	STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT SOIL STABILIZATION AT THE CONSTRUCTION SITE (OR PHASE OF THE PROJECT) MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING PINES OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODING SURFACE.
14.	ALL WATER DISCHARGED FROM EXCAVATIONS AND TEMPORARY SEDIMENT PONDS SHALL BE FILTERED USING SEDIMENT CONTROLS ACCEPTABLE TO ADEM AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION.
15.	UNLESS OTHERWISE NOTED, RIP-RAP SHALL BE A.L.O.D.T. MACHINED CLASS A-1 WITH A MEDIAN RIP-RAP SIZE D50 OF 6", 9" THICK AND SHALL BE UNDERLAIN WITH A NON-WOVEN GEOTEXTILE FABRIC.
16.	CONCRETE WASHOUT AREA SHALL BE IN CONFORMANCE WITH STANDARDS OF ADEM, AS WELL AS THE LOCAL PERMITTING AUTHORITY HAVING JURISDICTION.
17.	CONTRACTOR COORDINATE WITH ENGINEER AT BEGINNING OF LAND DISTURBANCE TO DETERMINE WHETHER OR NOT AN INITIAL SITE ASSESSMENT INSPECTION BY THE ENGINEER IS REQUIRED. IF REQUIRED, THE SITE ASSESSMENT INSPECTION BY THE ENGINEER MUST BE PERFORMED WITHIN 1 MONTH OF STARTING CONSTRUCTION. ALLOW ENGINEER A MINIMUM OF 1 WEEK NOTICE IN SCHEDULING SITE ASSESSMENT INSPECTIONS.
UTILITY NOTES	
1.	COORDINATE WITH EXISTING UTILITIES AND STORM SEWER INSTALLATION TO AVOID CONFLICTS. UTILITY INSTALLATION SHALL MEET THE REQUIREMENTS OF <b>ADDITION WATER WORKS</b> AND ALL APPLICABLE CODES. COORDINATE WITH <b>ADDITION WATER WORKS</b> PRIOR TO CONSTRUCTION TO DETERMINE MATERIAL, INSTALLATION TESTING AND INSPECTION REQUIREMENTS, VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2.	PAVEMENT REPAIR AND TRAFFIC CONTROL SHALL MEET THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.
3.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL PERMITS AND LICENSES REQUIRED TO WORK IN THE PUBLIC R.O.W. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP FEES AND COORDINATION WITH <b>ADDITION WATER WORKS</b> TO ESTABLISH WATER AND SEWER SERVICE.
4.	PROVIDE 10' MIN. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES. WHERE CROSSINGS OCCUR, PROVIDE 18" MIN SEPARATION BETWEEN WATER AND SEWER LINES. PROVIDE 8" MIN. CLEARANCE BETWEEN STORM SEWERS AND OTHER UTILITIES. UNLESS OTHERWISE NOTED PROVIDE 3' MINIMUM COVER FOR ALL UTILITIES. PROVIDE #57 STONE BEDDING AND BACKFILL TO SUBGRADE FOR ALL UTILITIES LOCATED IN PAVED AREAS.
5.	ADJUST ALL EXISTING UTILITY STRUCTURES, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT, TO MATCH FINAL GRADES. ADJUSTMENTS SHALL MEET THE REQUIREMENTS OF <b>ADDITION WATER WORKS</b> .
6.	COORDINATE WITH <b>ADDITION WATER WORKS</b> TO REMOVE OR ABANDON EXISTING UTILITIES, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT, THAT ARE LOCATED WITHIN THE PROJECT LIMITS AND NO LONGER REQUIRED.
7.	UNLESS OTHERWISE NOTED, ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC MEETING THE REQUIREMENTS OF ASTM D 3034, USE SDR 35 UNLESS OTHERWISE SPECIFIED. FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D 3111 AND ASTM D 2665. PIPE SHALL HAVE AN INTEGRAL BELL END WITH GASKET SEAL WHICH HAS BEEN REINFORCED WITH A STEEL RING, BAND, OR OTHER RIGID MATERIAL THAT PERMANENTLY LOCKS THE GASKET IN PLACE. THE RING SHALL MEET THE REQUIREMENTS OF ASTM D 3212. GASKETS SHALL BE OF A LOOK-IN-TYPE GASKET, REBERT TYPE OR APPROVED SUBSTITUTE, MEETING THE REQUIREMENTS OF ASTM F-477. UNLESS OTHERWISE NOTED, MINIMUM SLOPE SHALL BE 2.0% FOR 4" LINE AND 1.0% FOR 6" LINES.
8.	UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL BE AWWA C900 PVC (CLASS 200) WITH BELL END FOR PUSH-ON TYPE JOINTS. JOINTS SHALL CONSIST OF COMPACT PATENT DUCTILE IRON FITTINGS MEETING THE REQUIREMENTS OF AWWA C153 WITH RUBBER GASKETS MEETING THE REQUIREMENTS OF AWWA C 111.
9.	ALL FIRE WATER LINES SHALL BE CLASS 35 DUCTILE IRON WITH PUSH-ON TYPE JOINTS. PIPE SHALL COMPLY WITH AWWA C151 AND CEMENT - MORTAR LININGS SHALL COMPLY WITH AWWA C104. INSTALLATION SHALL COMPLY WITH AWWA C600.
10.	PIPE LINE SIZE SHALL BE VERIFIED BY SPRINKLER CONTRACTOR. CERTIFIED CALCULATIONS SHALL BE SUBMITTED TO THE OWNER. SEE THE FIRE PROTECTION PLAN FOR FURTHER REQUIREMENTS. ALL FIRE PROTECTION PIPING STARTING FROM THE POINT OF SERVICE MUST BE INSTALLED BY AN ALABAMA REGISTERED SPRINKLER CONTRACTOR.
11.	ALL WATER LINE MATERIALS SHALL BE LEAD FREE.





PHASE 1 EROSION PREVENTION & SEDIMENT CONTROL PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

EROSION CONTROL LEGEND

CONSTRUCTION LIMITS

SF

SILT FENCE; SEE DETAIL 1/C800

TS

TEMPORARY SEED MIXTURES (TDOT)			
GROUPS	SEEDING DATES	GRASS SEEDS	PERCENT
D	JANUARY 1 TO MAY 1	ITALIAN RYE	33%
		KOREAN LESPEDEZA	33%
		SUMMER OATS	34%
E	MAY 1 TO JULY 15	SUDAN-SORGHUM	100%
E	MAY 1 TO JULY 15	STARR MILLET	100%
F	JULY 15 TO JANUARY 1	BALBOA RYE	67%
		ITALIAN RYE	33%

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CONSULTANT

SEAL

CLAYTON ADDISON  
MANUFACTURING FACILITY  
944

PROJECT ADDRESS:

CLAYTON  
18025 COUNTY ROAD 41  
ADDISON, ALABAMA 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

☐

FOR REVIEW ONLY

☐

FOR PERMITTING ONLY

☐

SCHEMATIC DESIGN☐☐☒☐

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

811

Know what's below.  
Call before you dig.

In Tennessee call 811 or 1-800-351-1111

GRAPHIC SCALE

20

0

10

20

40

60

1 INCH = 20'

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: L.S.B.

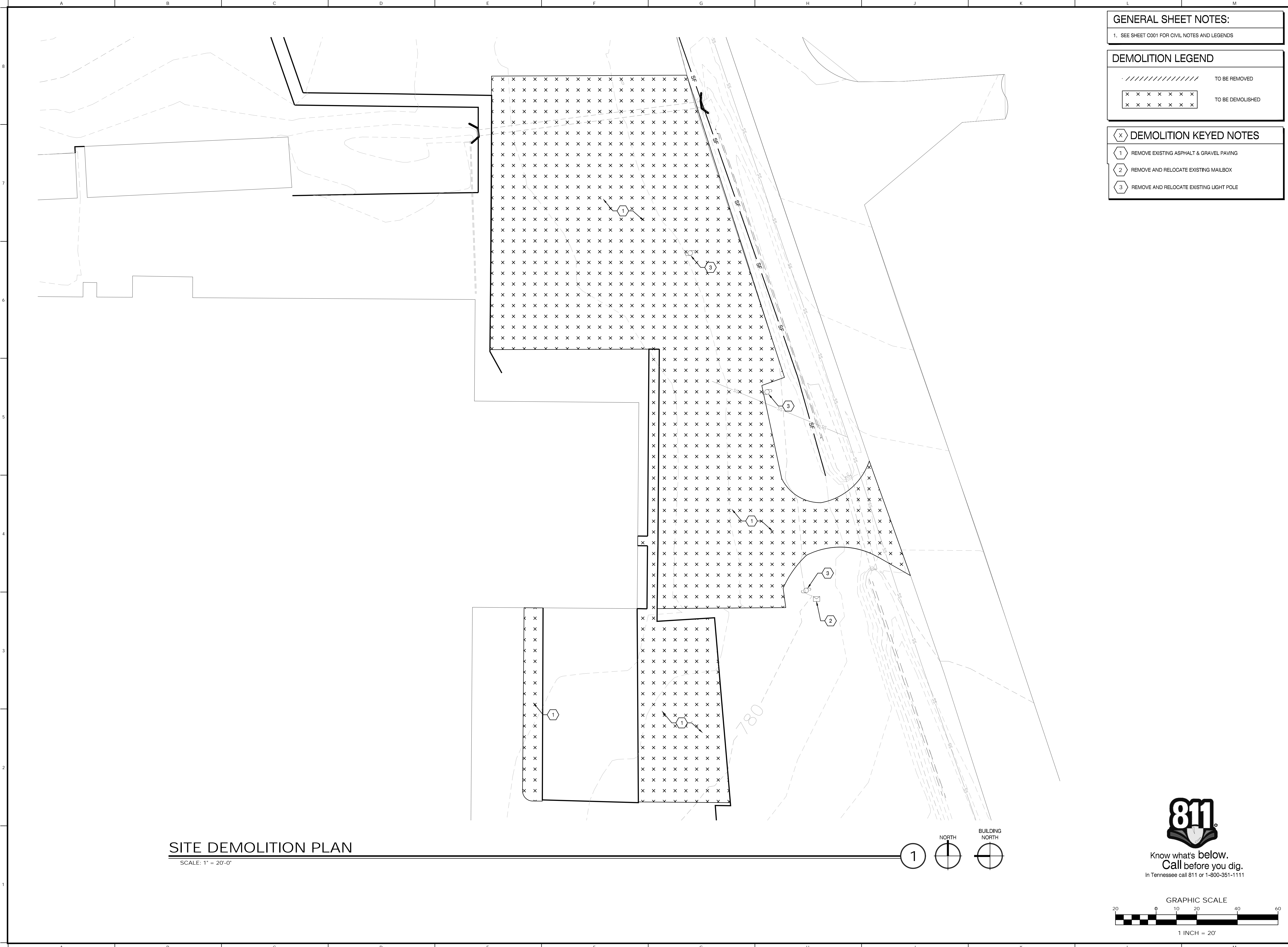
DRAWN BY: S.J.C.

REVIEWED BY: D.J.M.

SHEET TITLE:

EROSION PREVENTION  
AND SEDIMENT  
CONTROL PLAN PHASE 1

SHEET NO.: C100



GENERAL SHEET NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

DEMOLITION LEGEND

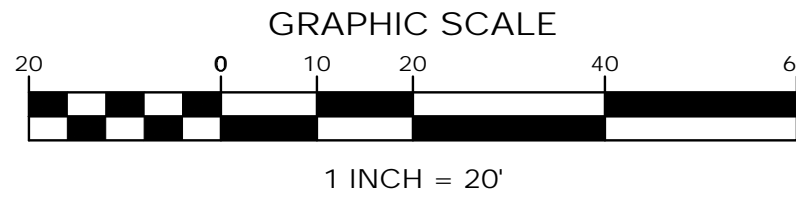
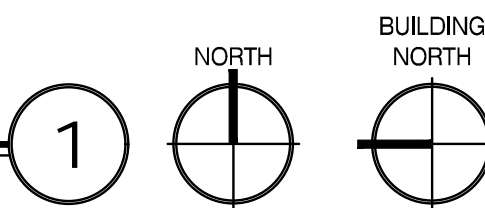
TO BE REMOVED  
TO BE DEMOLISHED

DEMOLITION KEYED NOTES

- 1 REMOVE EXISTING ASPHALT & GRAVEL PAVING
- 2 REMOVE AND RELOCATE EXISTING MAILBOX
- 3 REMOVE AND RELOCATE EXISTING LIGHT POLE

SITE DEMOLITION PLAN

SCALE: 1" = 20'-0"



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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING FACILITY 944

PROJECT ADDRESS:

CLAYTON  
18025 COUNTY ROAD 41  
ADDISON, ALABAMA 35640

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: L.S.B.  
DRAWN BY: S.J.C.  
REVIEWED BY: D.J.M.  
SHEET TITLE:

SITE DEMOLITION PLAN

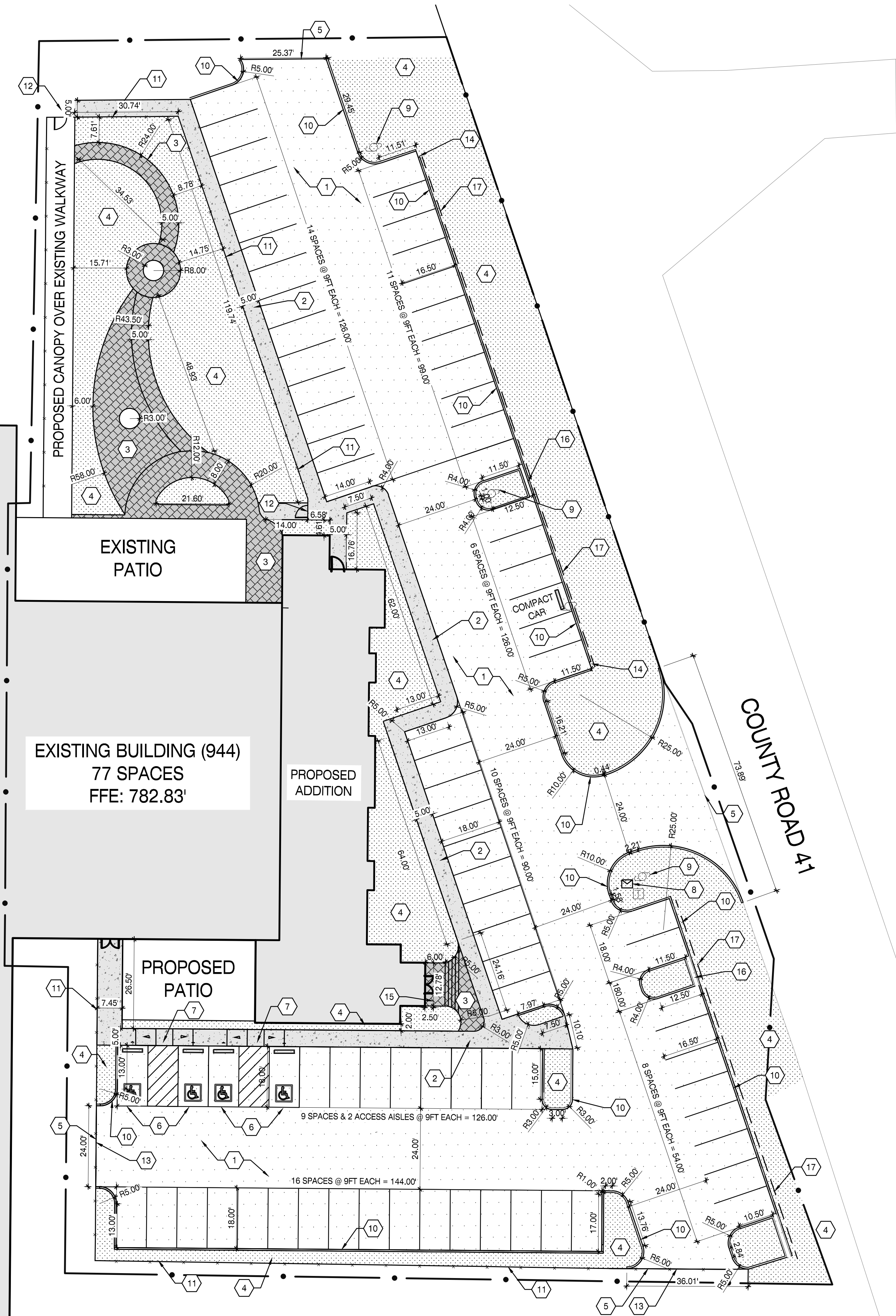
SHEET NO.:

C200



SITE LAYOUT PLAN

SCALE: 1" = 20'-0"



GENERAL SHEET NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS
2. FOR TYPICAL PARKING SPACE LAYOUT, SEE 5/C800
3. ALL RADI NOT LABELED ARE TO BE R3.00'

X SITE KEYED NOTES

1. LIGHT DUTY ASPHALT PAVING: SEE DETAIL 3/C800
2. CONCRETE SIDEWALK: SEE DETAIL 4/C800
3. STAMPED & COLORED CONCRETE, STYLE TO BE DETERMINED BY OWNER/ARCHITECT
4. GRASS / LANDSCAPED AREA
5. PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE
6. ADA COMPLIANT PARKING SPACE: SEE DETAIL 6/C800
7. ADA COMPLIANT DOUBLE CONCRETE RAMP: SEE DETAIL 7/C800
8. RELOCATED EXISTING MAILBOX
9. RELOCATED EXISTING LIGHT POLE
10. 6" MACHINE FORMED CONCRETE CURB: SEE DETAIL 9/C800
11. DECORATIVE BLACK FENCING: SEE DETAIL 10/C800
12. 3' PEDESTRIAN GATE
13. VEHICULAR SLIDE GATE: SEE DETAIL 5/C801
14. CURB CUT: SEE DETAIL 1/C801
15. EXTERIOR STAIRS: SEE DETAIL 8/C800
16. 2' CURB PASS THROUGH
17. SEGMENTAL BLOCK RETAINING WALL

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18025 COUNTY ROAD 41  
ADDISON, ALABAMA 35540

PROJECT NO.: 180789.06

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REVISION INFORMATION

NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION

KEY PLAN



SHEET INFORMATION

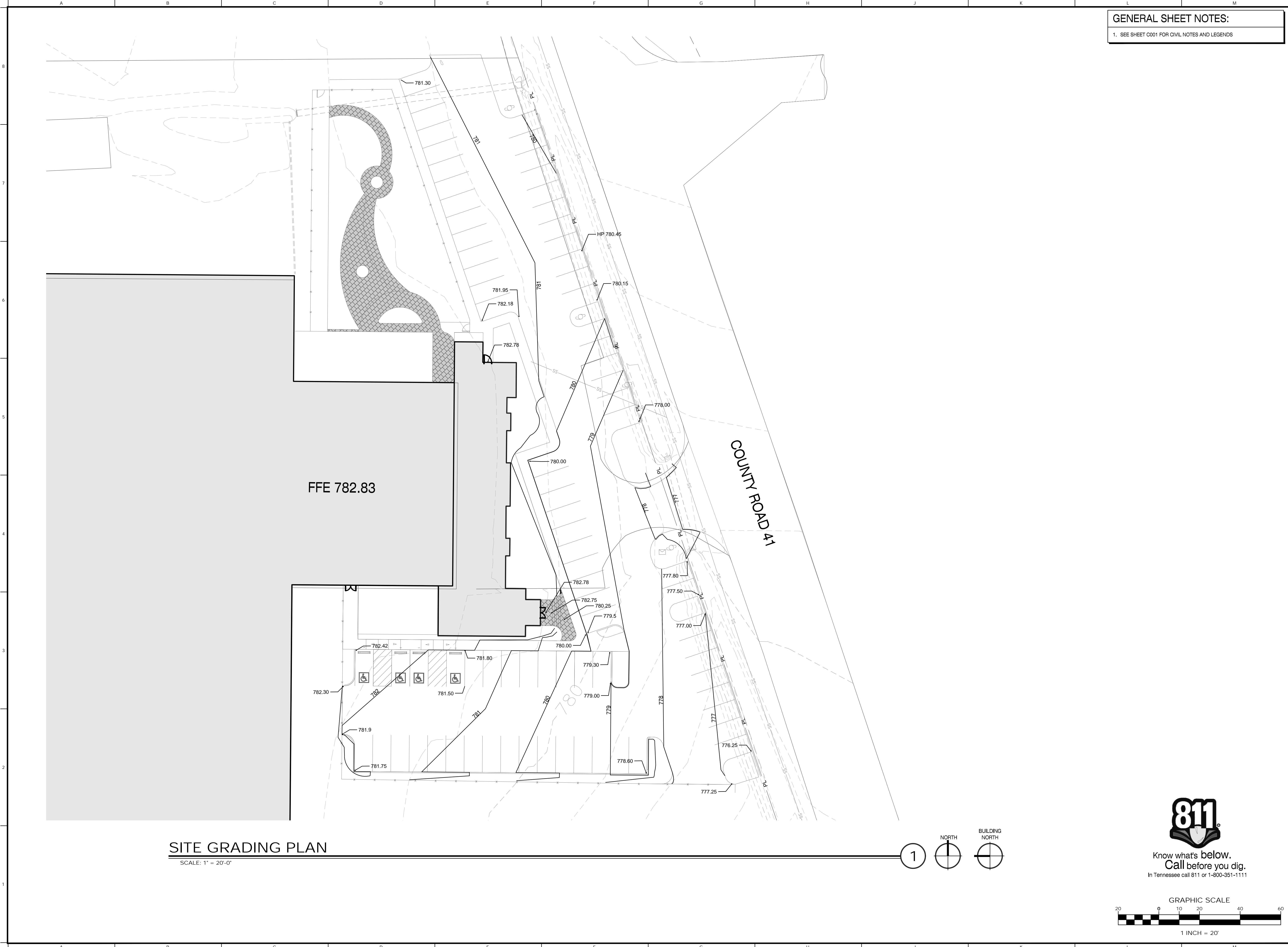
SHEET ISSUED: 08/23/2019  
DESIGNED BY: L.S.B.  
DRAWN BY: S.J.C.  
REVIEWED BY: D.J.M.  
SHEET TITLE:

SITE PLAN

SHEET NO.:

C300





GENERAL SHEET NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

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NO.	DATE	DESCRIPTION

KEY PLAN

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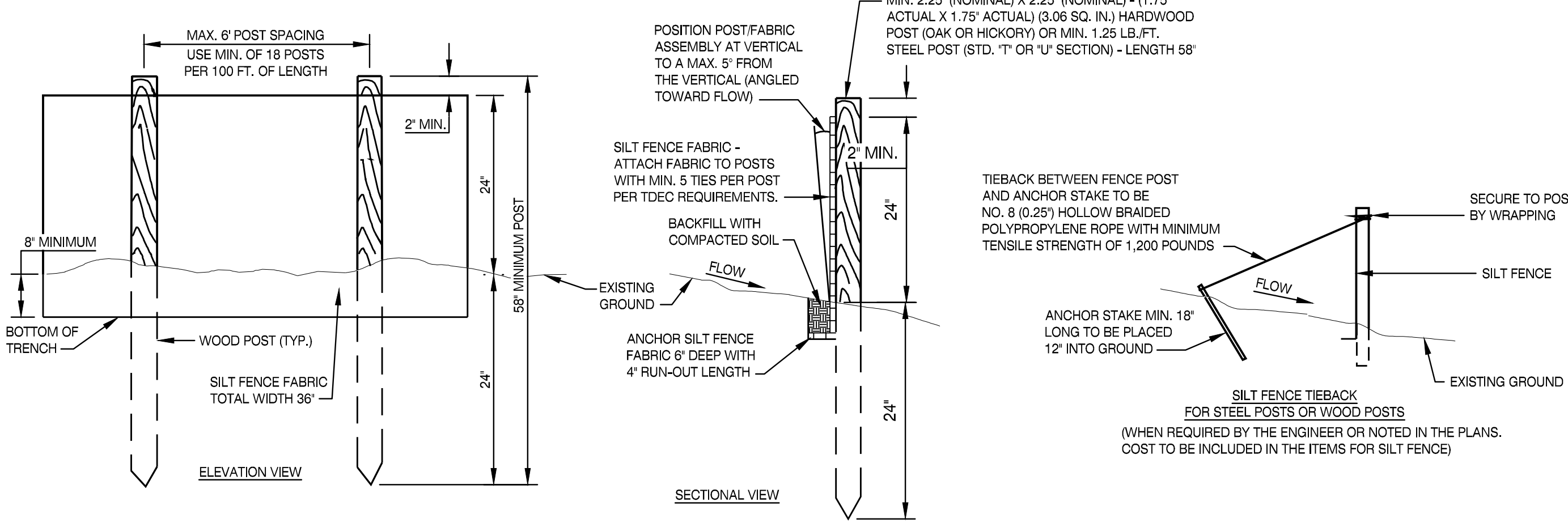
SHEET ISSUED: 08/23/2019  
DESIGNED BY: L.S.B.  
DRAWN BY: S.J.C.  
REVIEWED BY: D.J.M.  
SHEET TITLE:

GRADING PLAN

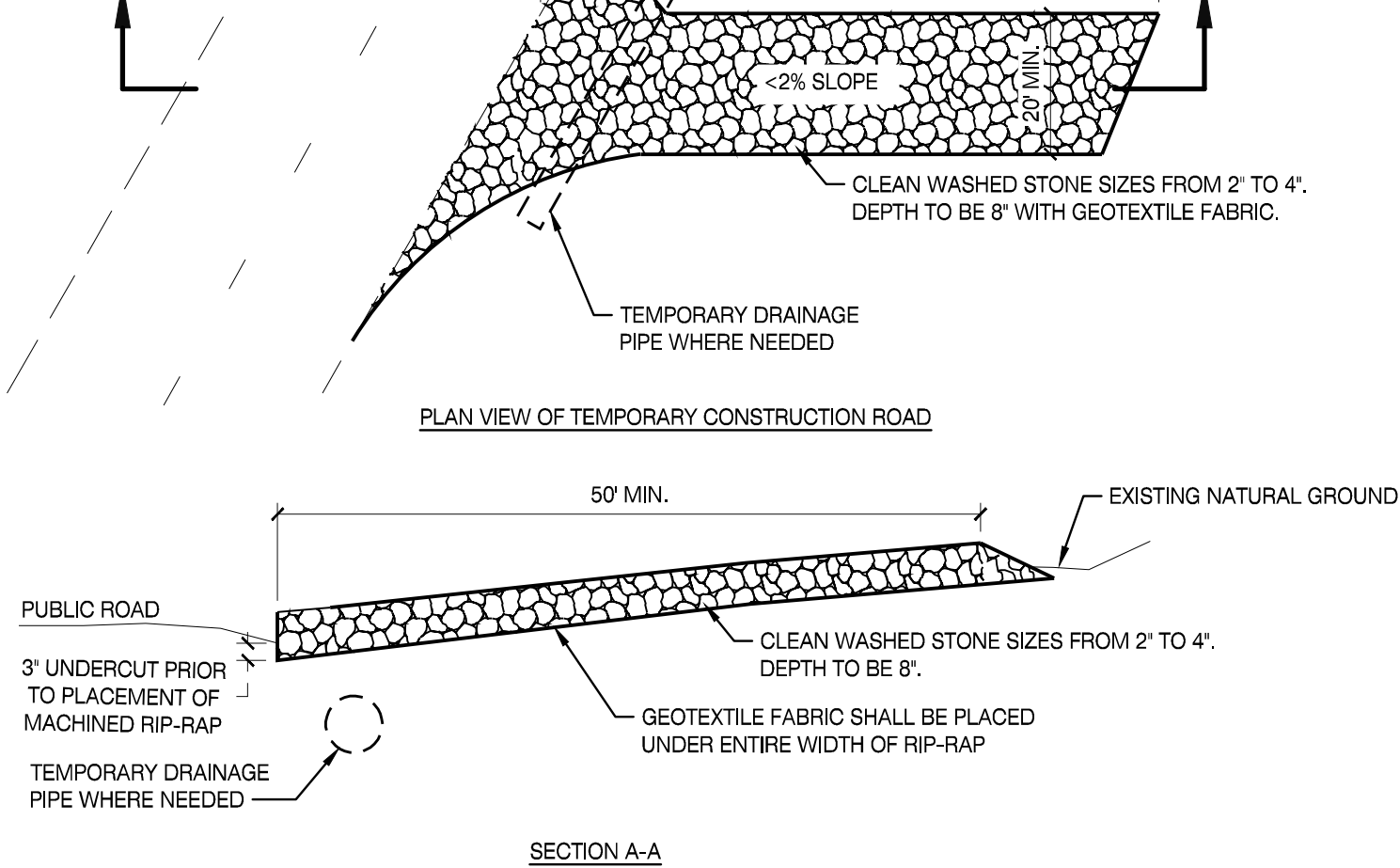
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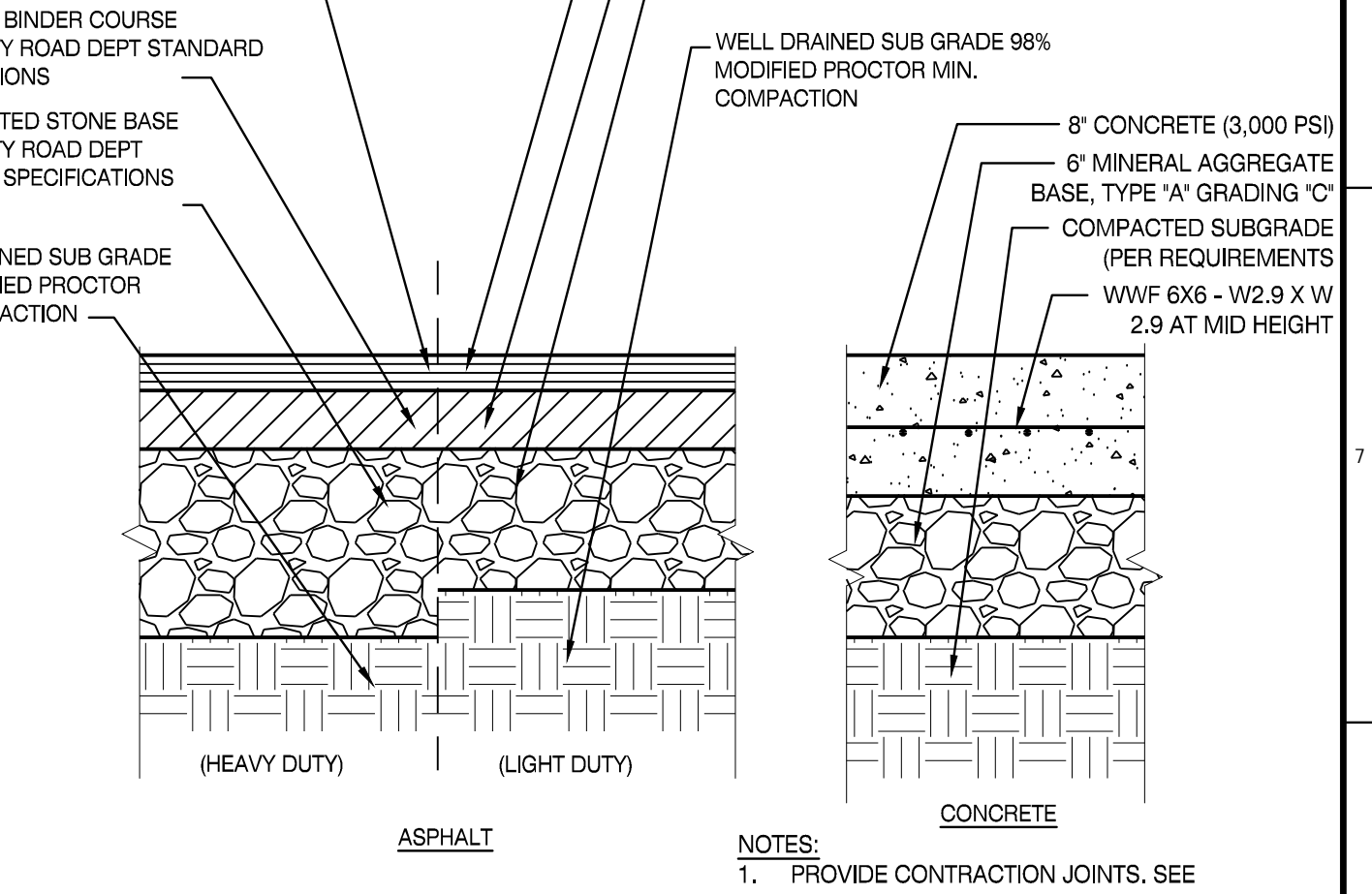




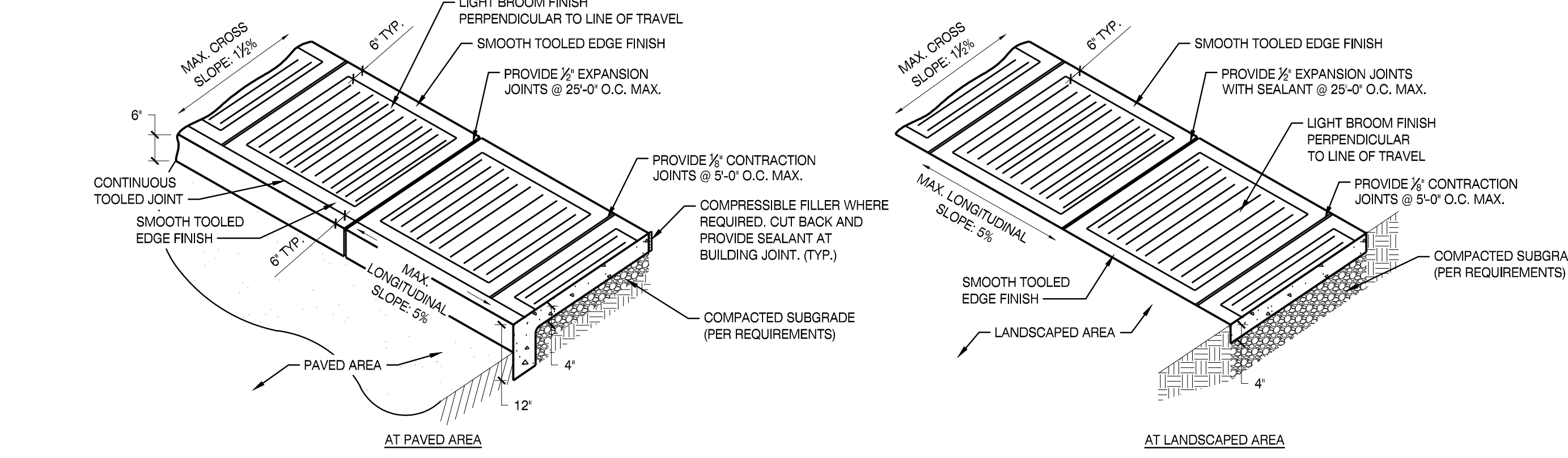
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SCALE: N.T.S. 1



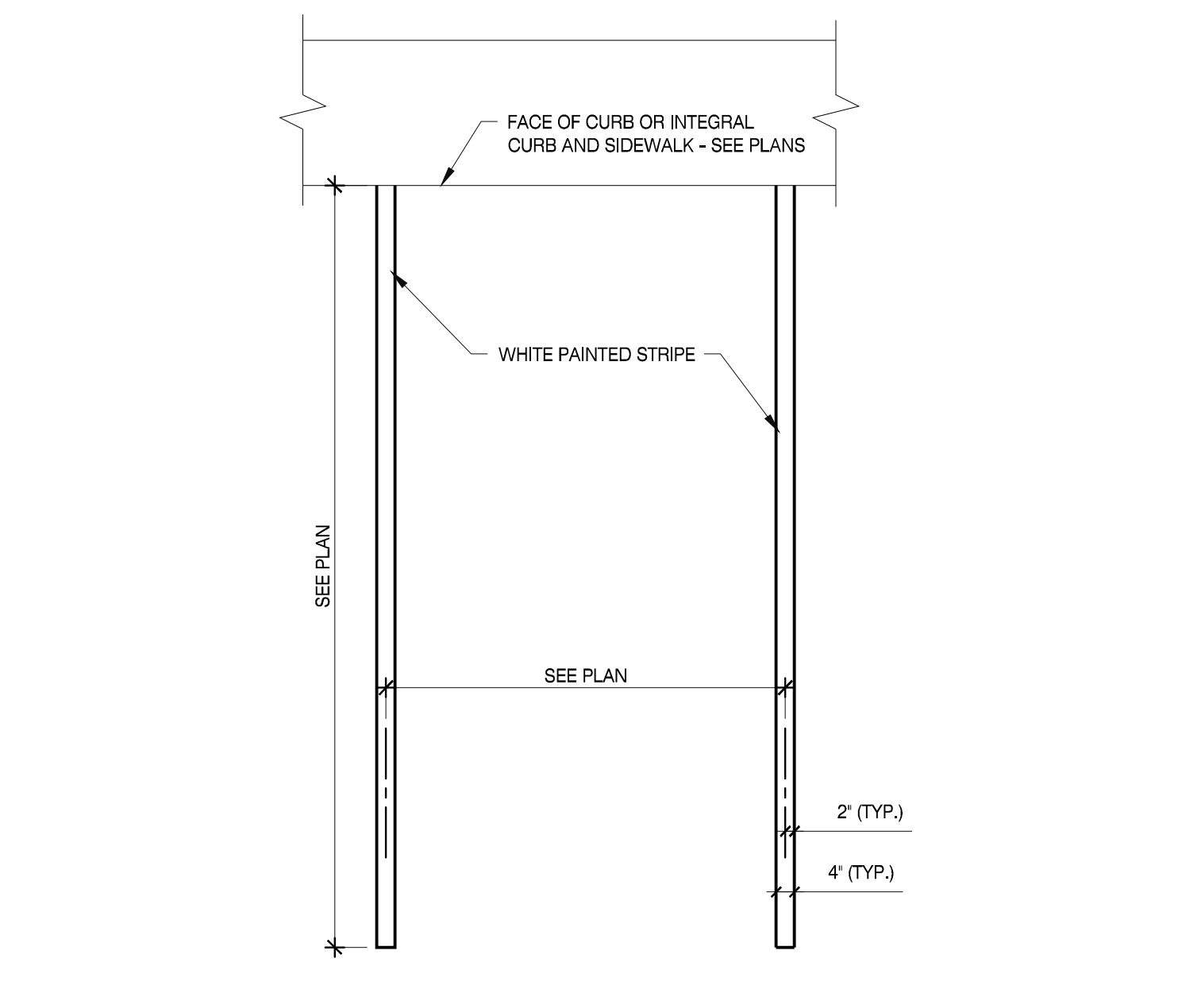
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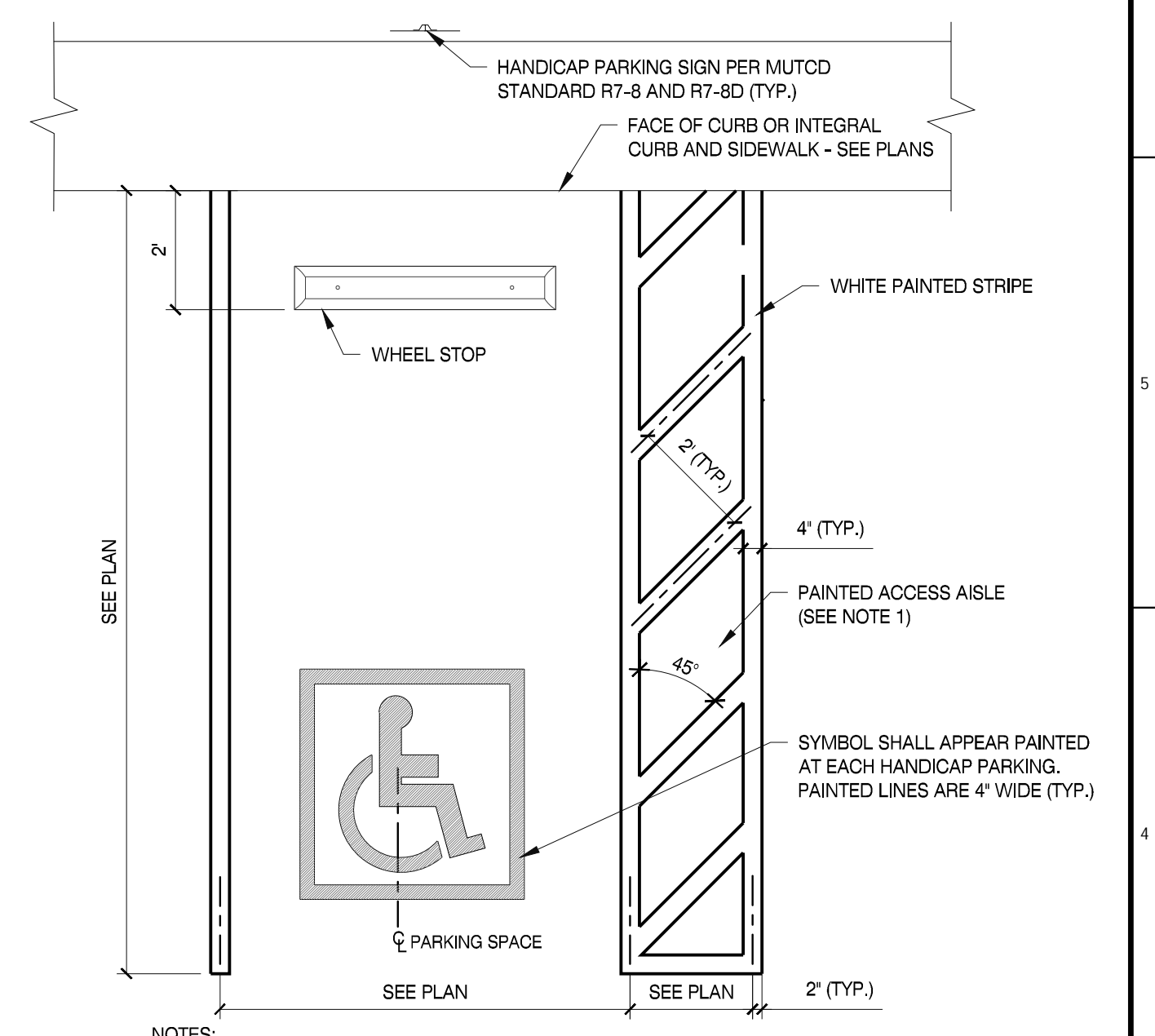
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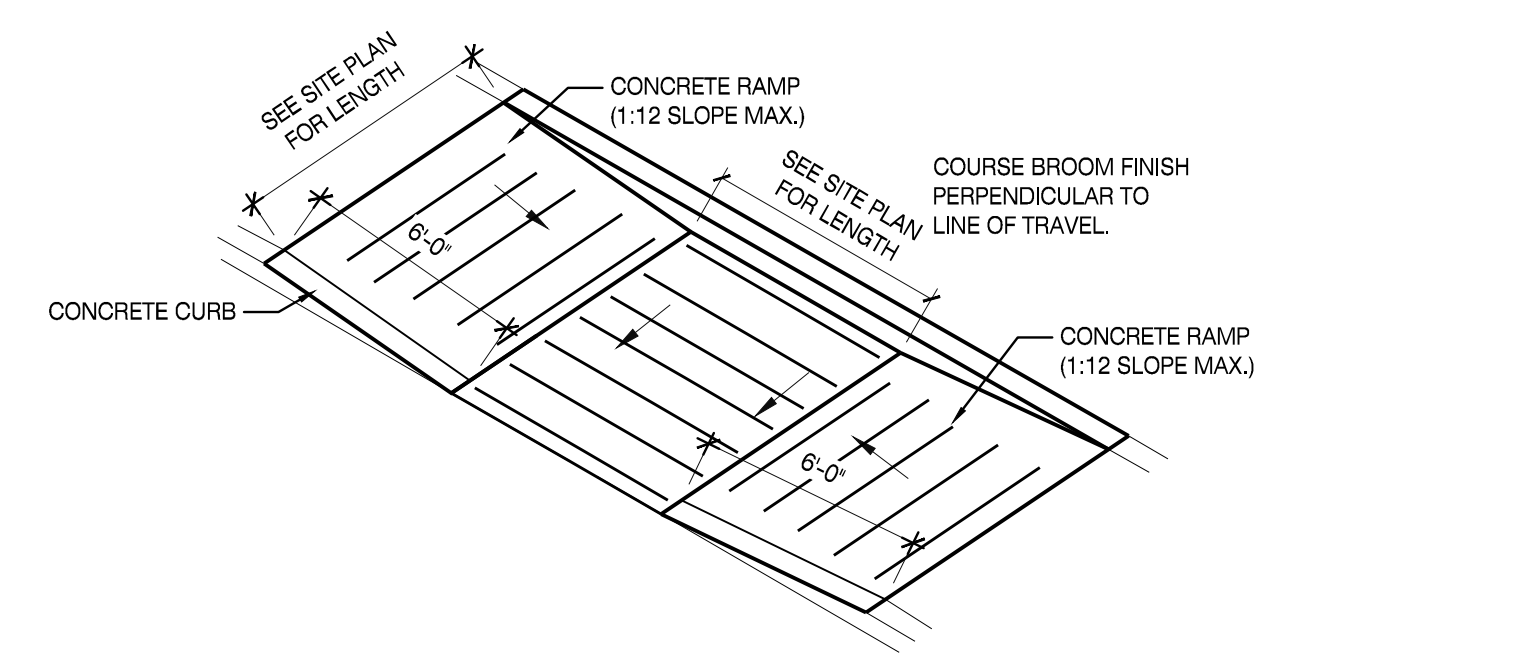
**CONCRETE SIDEWALK**  
SCALE: N.T.S. 4



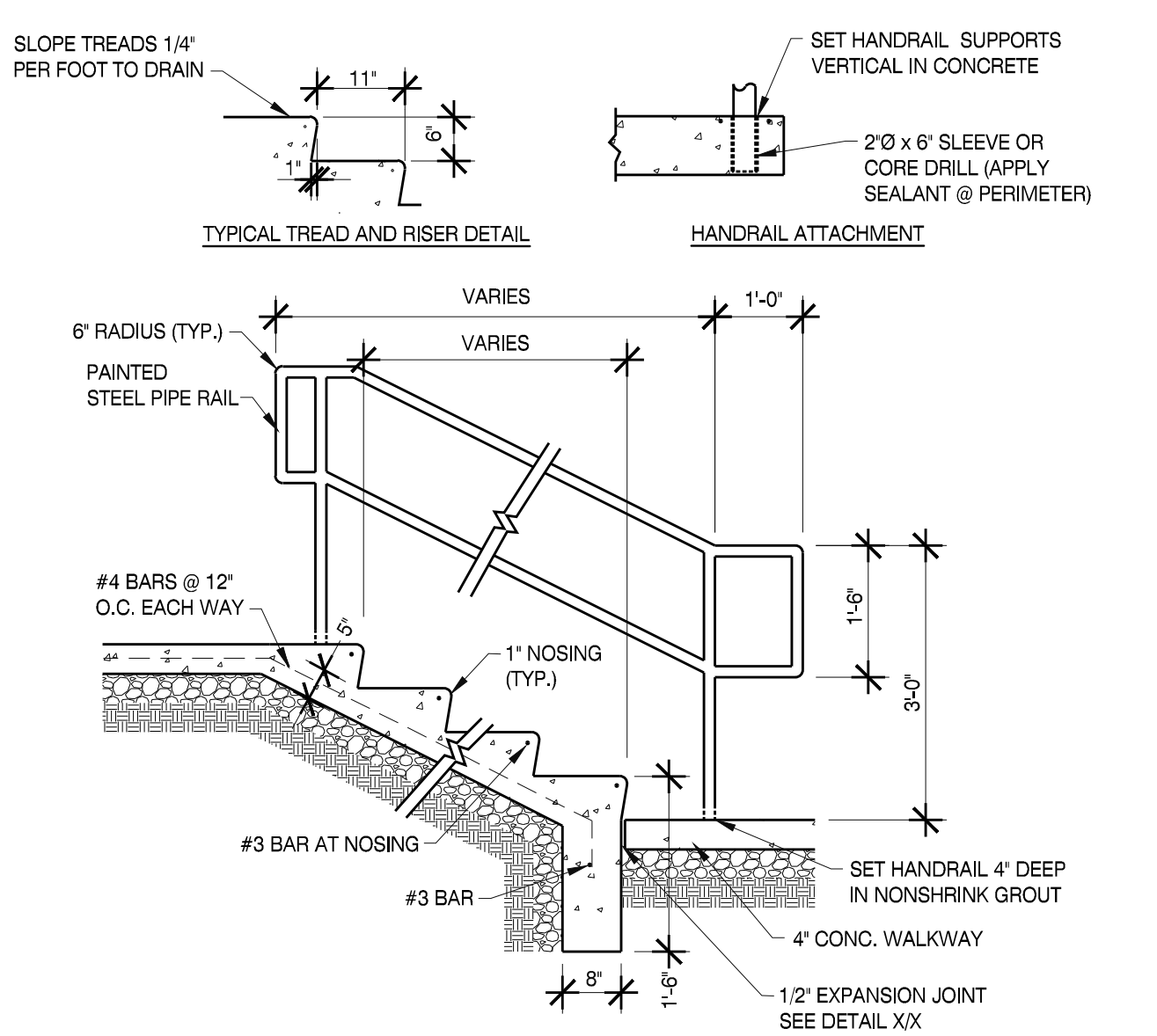
**PARKING SPACE**  
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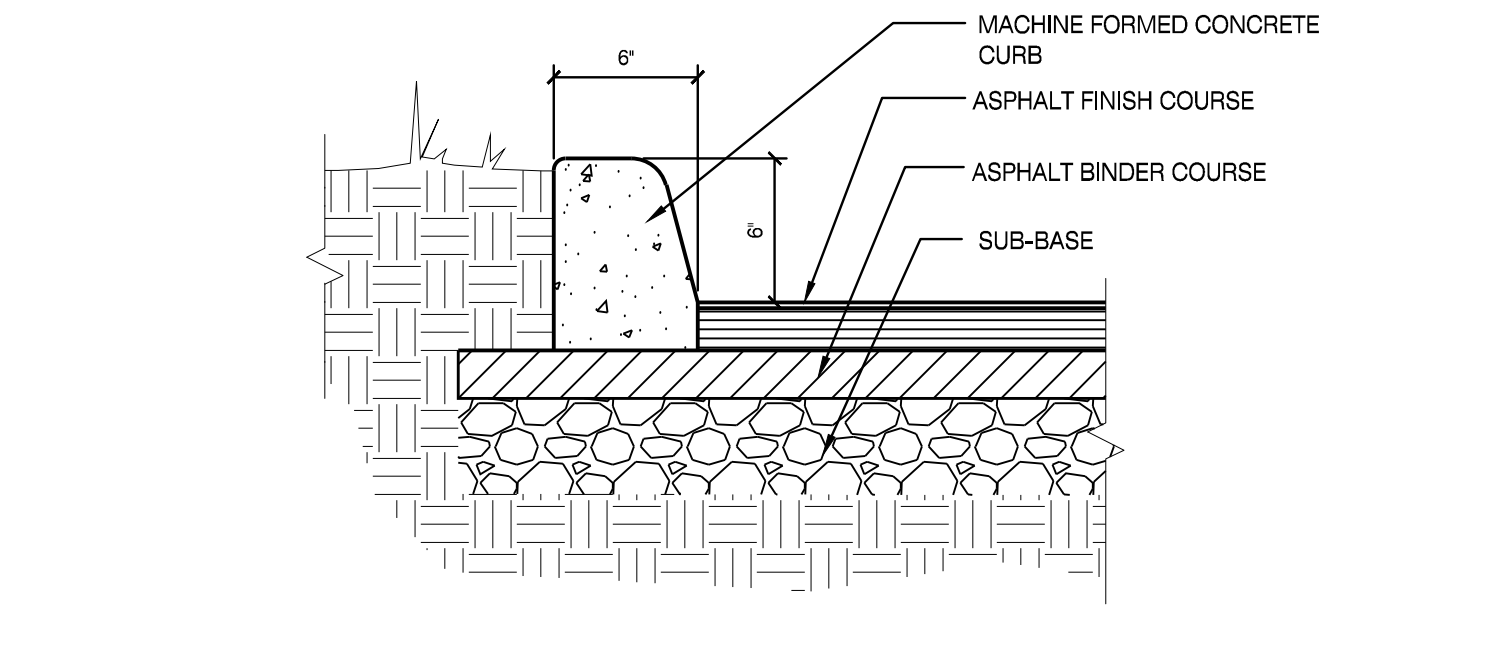
**HANDICAP PARKING SPACE**  
SCALE: N.T.S. 6



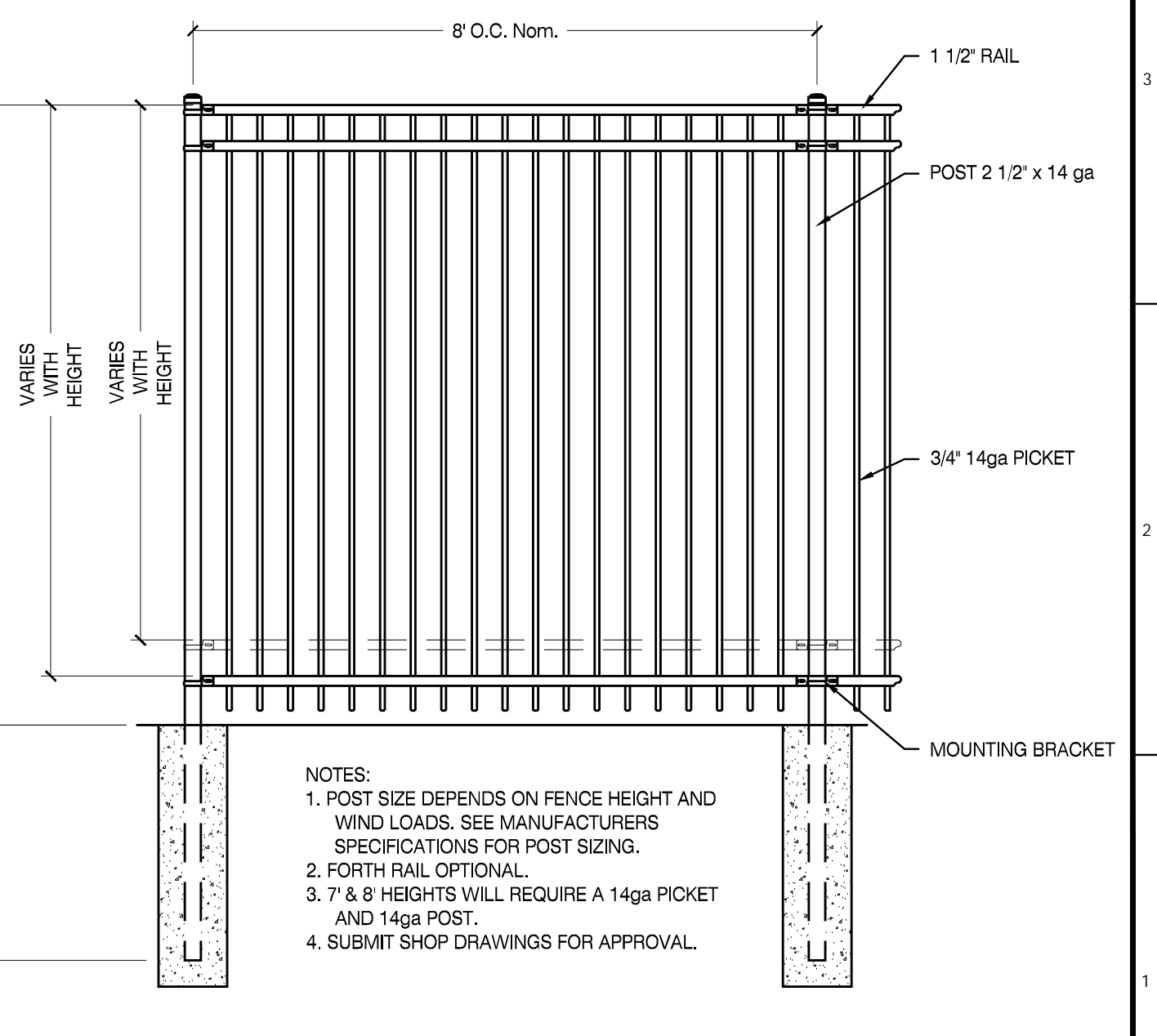
**DOUBLE HANDICAP RAMP**  
SCALE: N.T.S. 7



**EXTERIOR STAIRS**  
SCALE: N.T.S. 8



**CONCRETE CURB**  
SCALE: N.T.S. 9



**METAL FENCING**  
SCALE: N.T.S. 10

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NO. 20809

PROFESSIONAL

08/23/19

CLAYTON J. MATLOCK

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CLAYTON ADDISON MANUFACTURING FACILITY 944

PROJECT ADDRESS:

CLAYTON 18025 COUNTY ROAD 41 ADDISON, ALABAMA 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

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☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: L.S.B.

DRAWN BY: S.J.C.

REVIEWED BY: D.J.M.

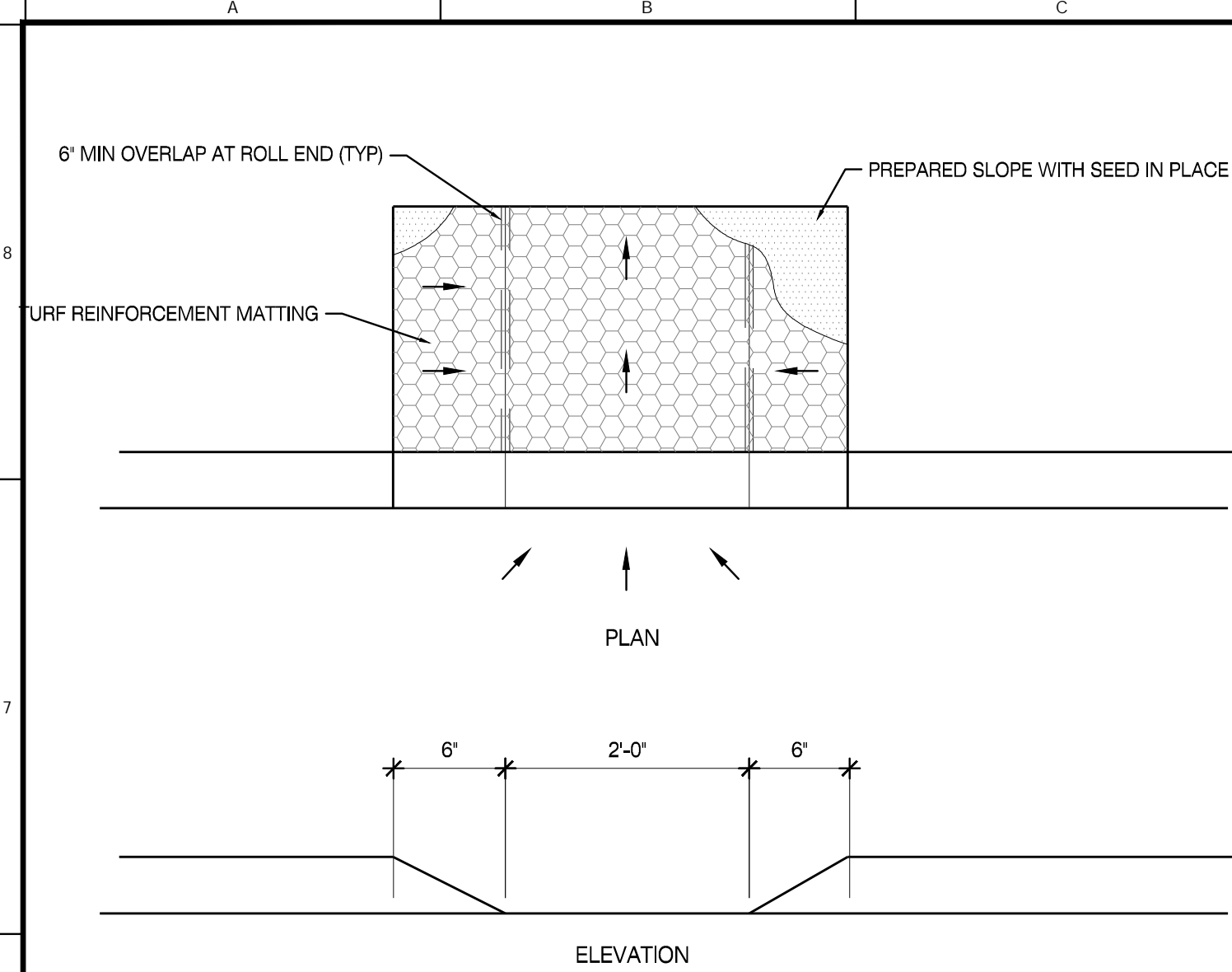
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CIVIL DETAILS

SHEET NO.:

C800





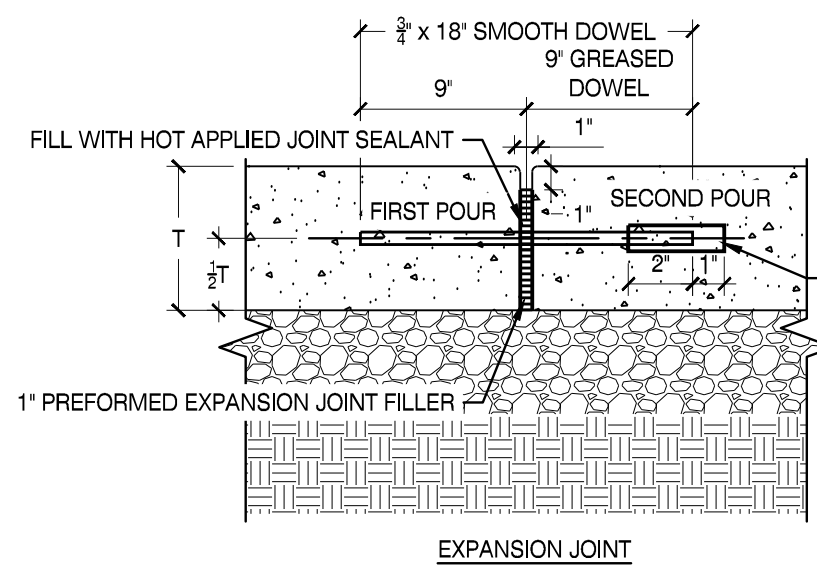
## 2' CURB CUT

SCALE: N.T.S.

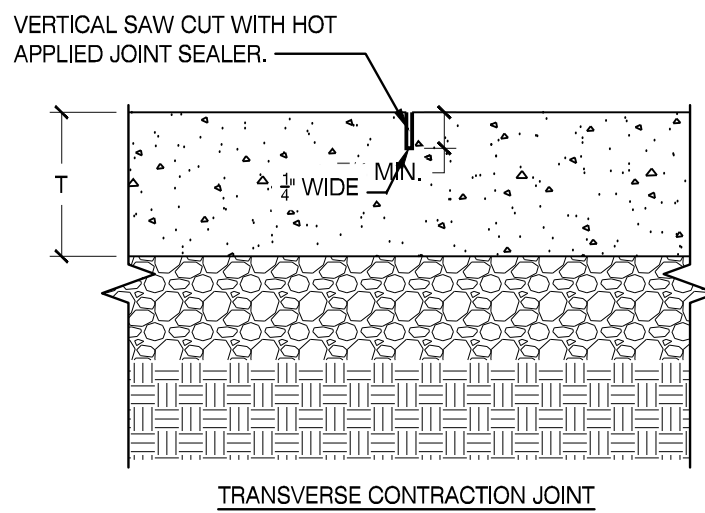
1

## CONCRETE JOINTS

SCALE: N.T.S.



- NOTES:
1. ALL DOWEL BARS SHALL BE INSTALLED PERPENDICULAR TO JOINT @ 24" SPACING.
  2. HOT APPLIED JOINT SEALANT SHALL MEET T.D.O.T. STANDARDS AND SPECIFICATIONS.
  3. PREFORMED EXPANSION JOINT FILLERS SHALL MEET T.D.O.T. STANDARD AND SPECIFICATIONS.
  4. SEE T.D.O.T. STANDARDS AND SPECIFICATIONS FOR EXPANSION JOINT APPLICATIONS.

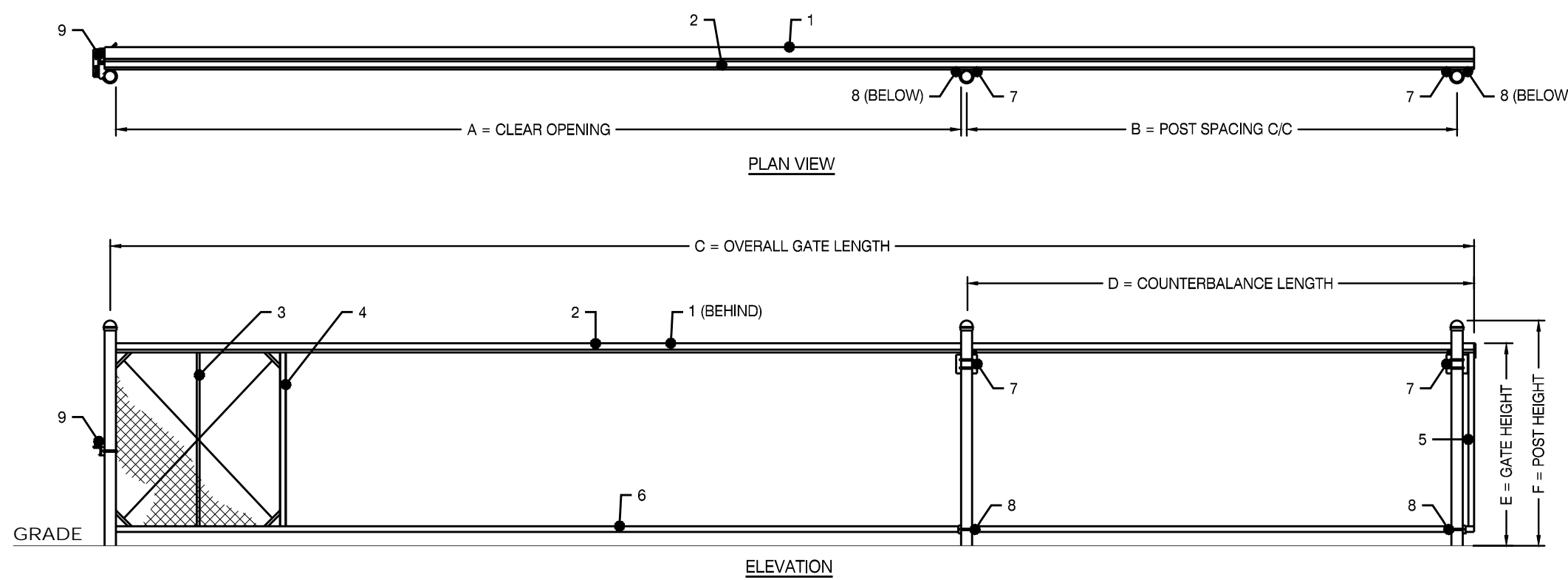
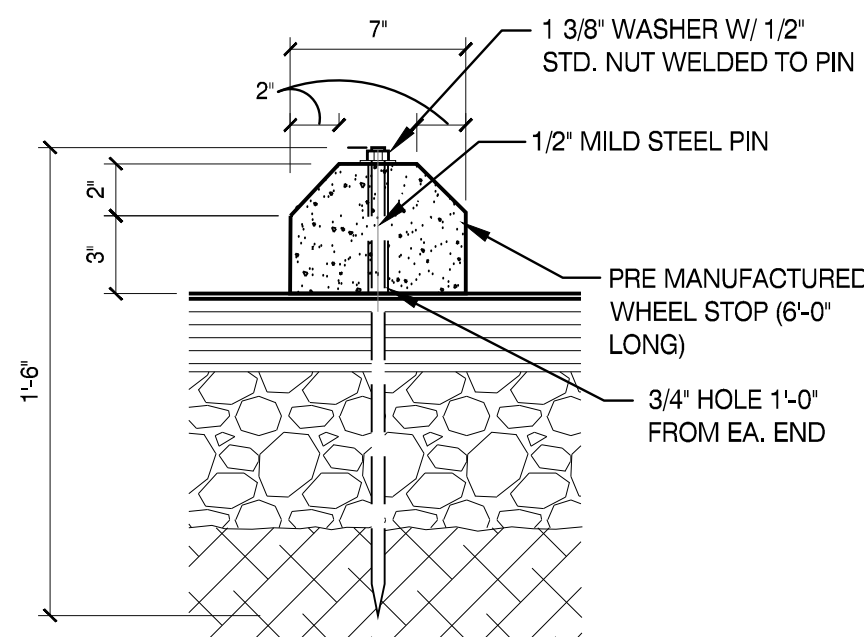


- NOTES:
1. JOINTS TO BE AT 15'-0" MAX SPACING.
  2. HOT APPLIED JOINT SEALER SHALL MEET T.D.O.T. STANDARDS AND SPECIFICATIONS.
  3. ALL TRANSVERSE JOINTS SHALL BE CONSTRUCTED AS CONTRACTION JOINTS EXCEPT AS APPROVED BY THE SAFETY-SERVICE DIRECTOR.
  4. DOWEL BARS FOR LONGITUDINAL JOINTS SHALL BE INSTALLED PERPENDICULAR TO JOINT.

## WHEEL STOP

SCALE: N.T.S.

3



## SLIDE GATE

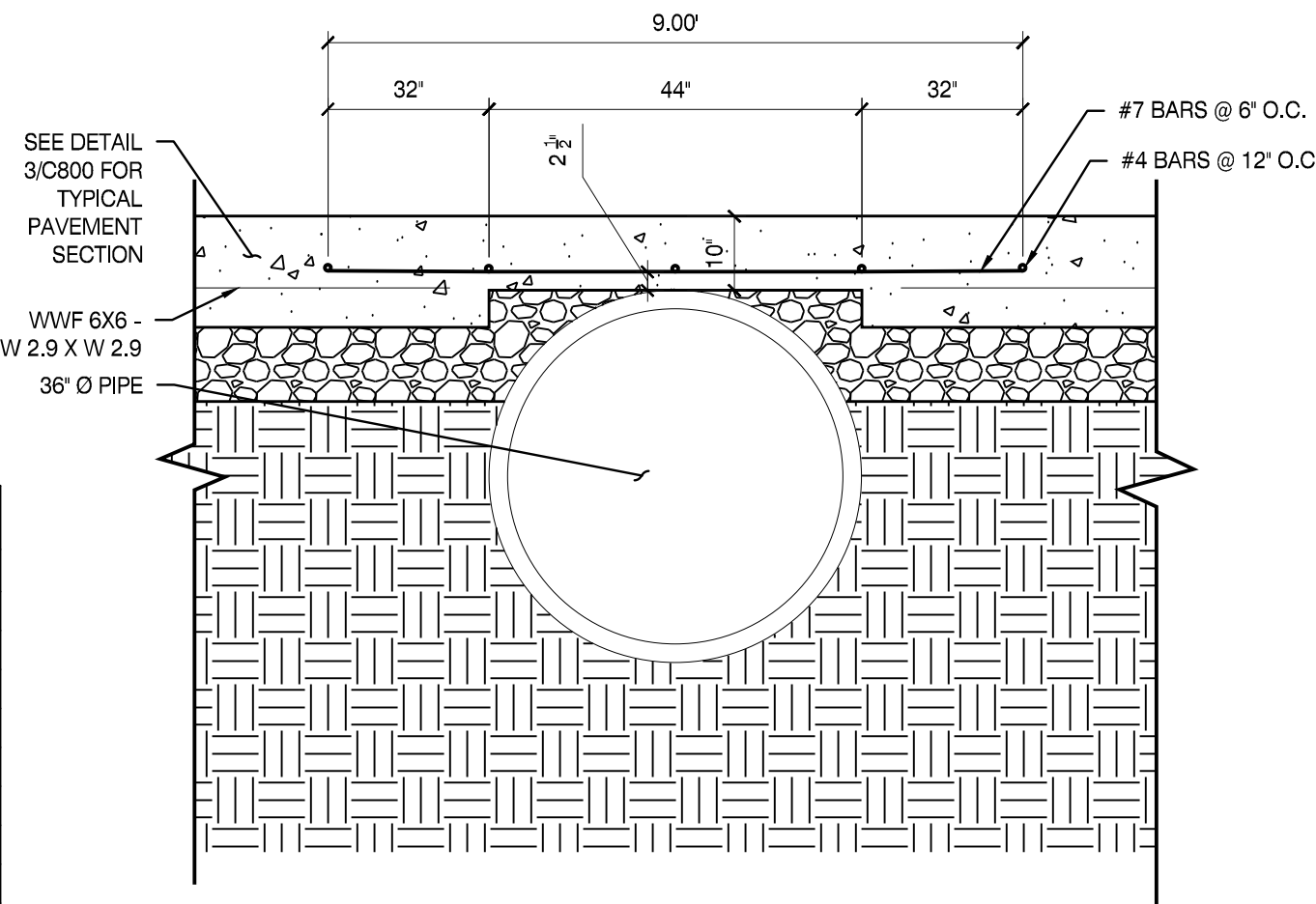
SCALE: N.T.S.

5

MARK	DESCRIPTION	FORMULA	DIM.
A	CLEAR OPENING	A	30'-0"
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	14'-1"
C	OVERALL GATE LENGTH	A x 1.5	45'-0"
D	COUNTERBALANCE LENGTH	A x 0.5	15'-0"
E	NOMINAL GATE HEIGHT	E	6'-0"
F	POST HEIGHT	E + 6"	6'-6"
G	FABRIC HEIGHT	E - 1'-0"	5'-0"

### HEAVY DUTY CANTILEVER SLIDE GATE

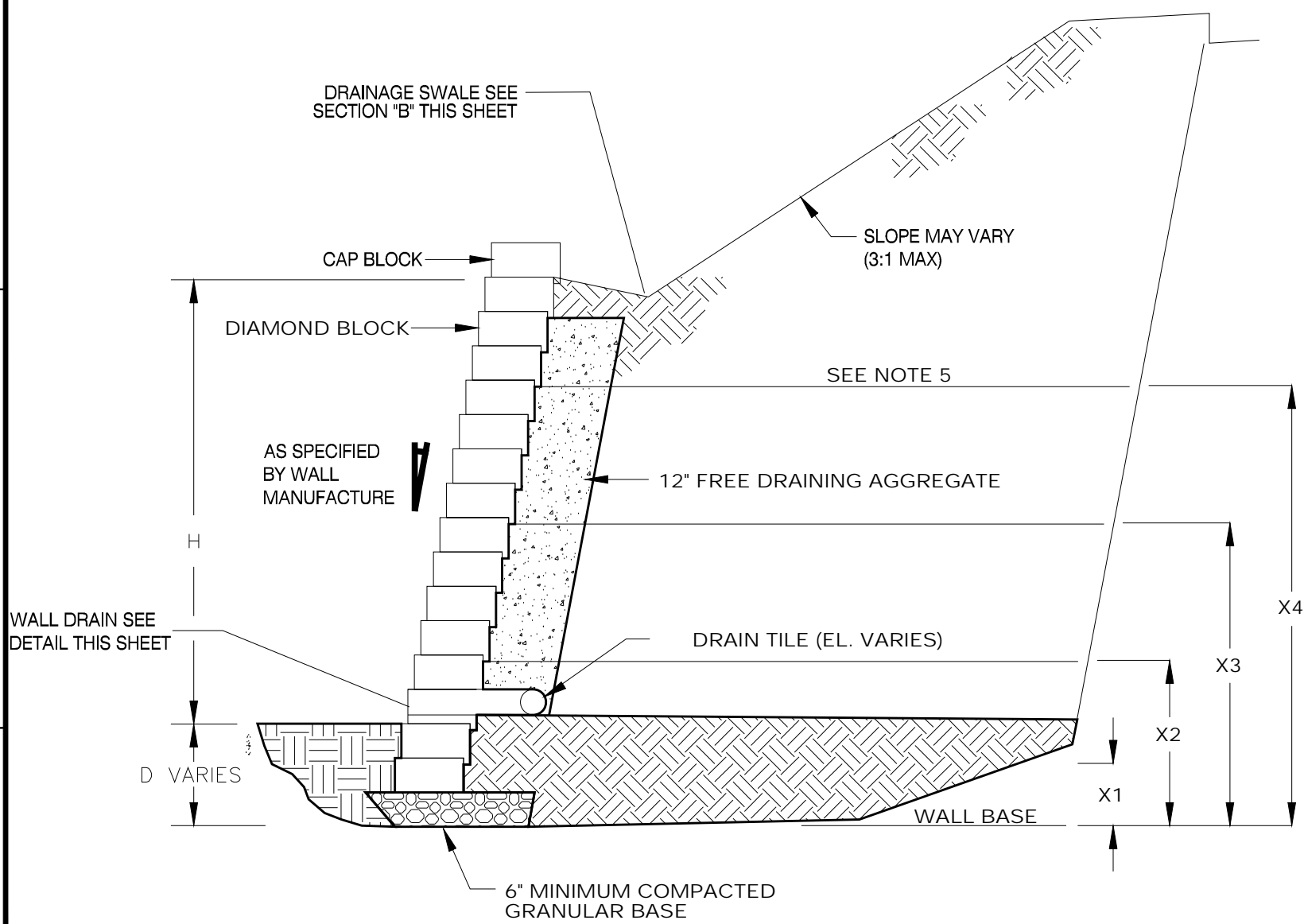
MARK	DESCRIPTION	NOTES:
1	TOP PRIMARY MEMBER	
2	STANDARD TRACK	
3	1" x 2" ALUM. TUBE	CENTERED BETWEEN 2x2'S
4	2" x 2" ALUM. TUBE	
5	STANDARD PRIMARY	TYP. AT ENDS OF GATE FRAME
6	2" x 5" ALUM. TUBE	
7	HANGER ASSEMBLY	2 REQUIRED
8	BOTTOM GUIDE ASSEMBLY	2 REQUIRED
9	CATCH ASSEMBLY	1 REQUIRED



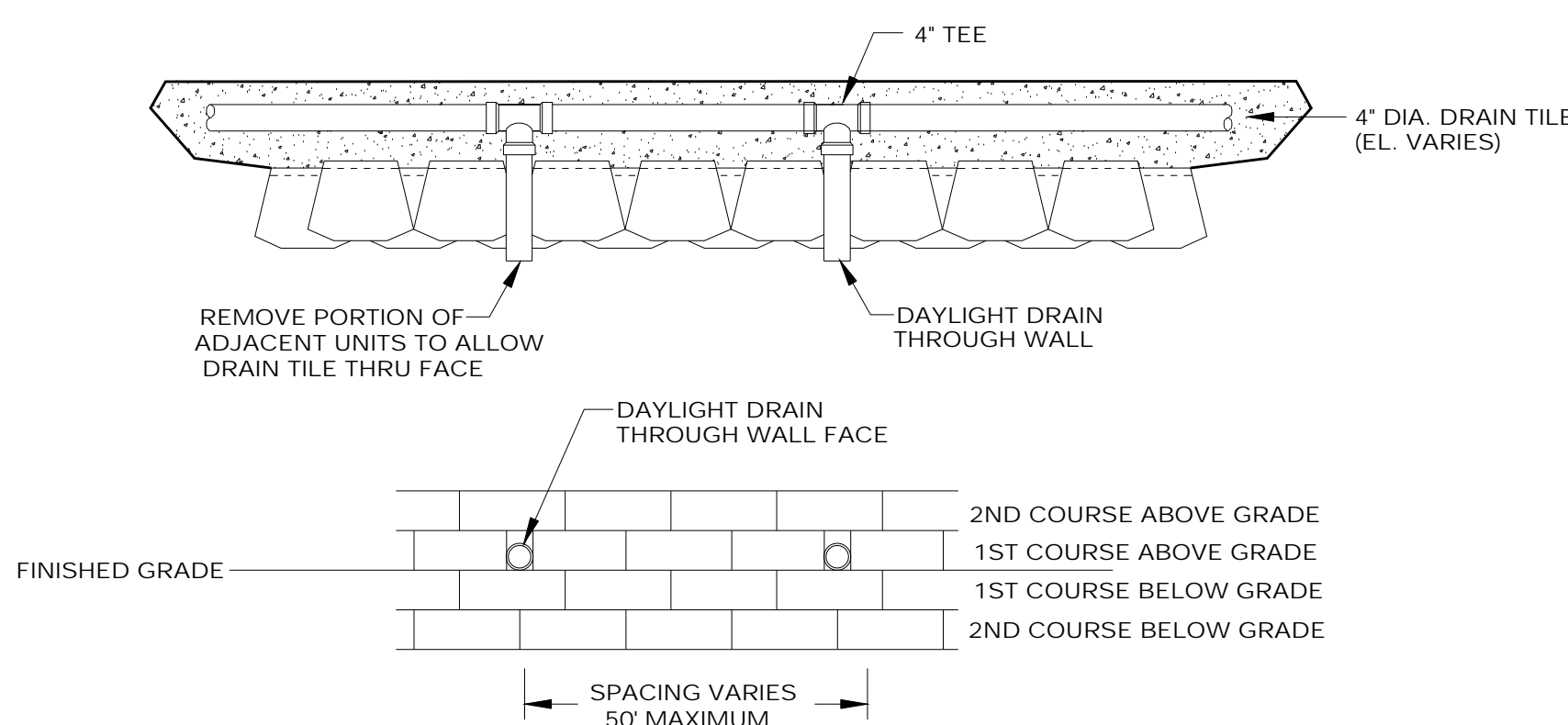
## PIPE SPAN

SCALE: N.T.S.

6



TYPICAL WALL SECTION "A"



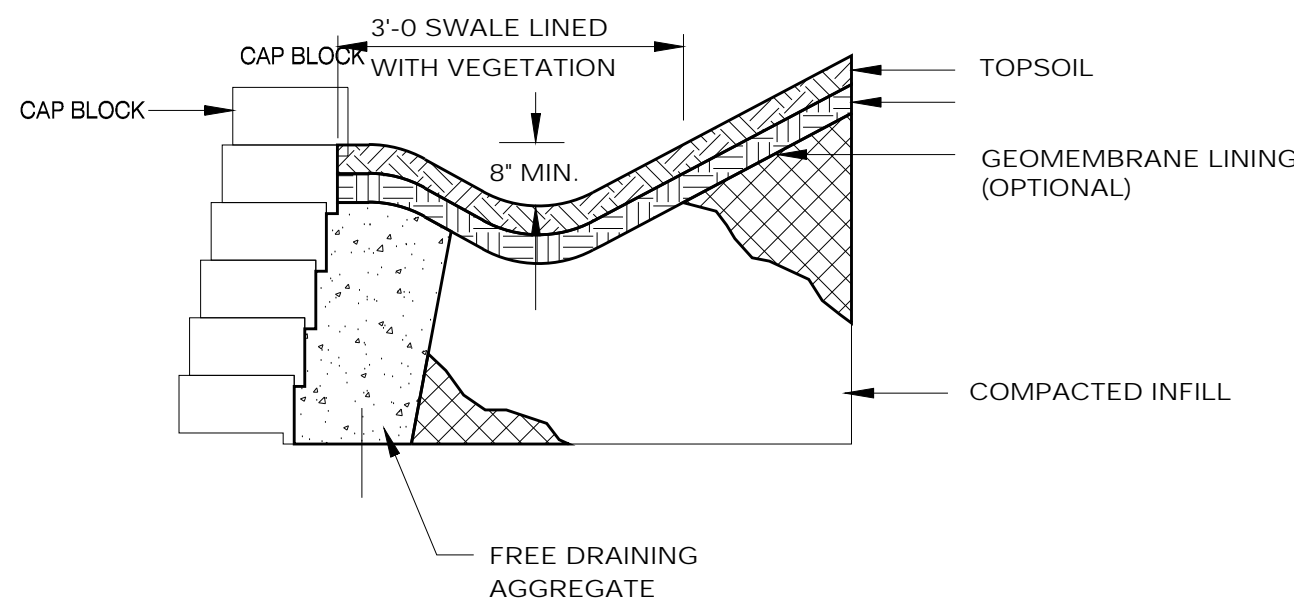
WALL DRAIN DETAIL

- NOTES:
1. SEGMENTAL BLOCK RETAINING WALL SYSTEM SHALL BE MANUFACTURED BY ANCHOR, KEYSTONE, CONTECH, ROCKWOOD OR APPROVED EQUIVALENT.
  2. WALL SYSTEM SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF TENNESSEE.
  3. WALL SYSTEMS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
  4. CONTRACTOR UNDER NO CIRCUMSTANCES SHALL ENEROACH ONTO THE SWSA. CONTRACTOR TO INSTALL ORANGE PROTECTIVE FENCING ALONG SWSA BOUNDARY AT RETAINING WALL.
  5. WALL MANUFACTURER IS TO PROVIDE GEOSYNTHETIC REINFORCEMENT AS REQUIRED.

## SEGEAMENTAL BLOCK RETAINING WALL DETAIL

SCALE: N.T.S.

17



DRAINAGE SWALE SECTION "B"

# MBI

ENGINEER:

MBI COMPANIES INC.  
299 N. WEISGARBER ROAD  
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CONSULTANT

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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING FACILITY  
944

PROJECT ADDRESS:

CLAYTON  
18025 COUNTY ROAD 41  
ADDISON, ALABAMA 35540  
PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY  
☐ FOR PERMITTING ONLY  
☐ SCHEMATIC DESIGN  
☐ DESIGN DEVELOPMENT  
☐ CONSTRUCTION BIDDING  
☒ CONSTRUCTION DOCUMENTS  
☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: L.S.B.  
DRAWN BY: S.J.C.  
REVIEWED BY: D.J.M.  
SHEET TITLE:

CIVIL DETAILS

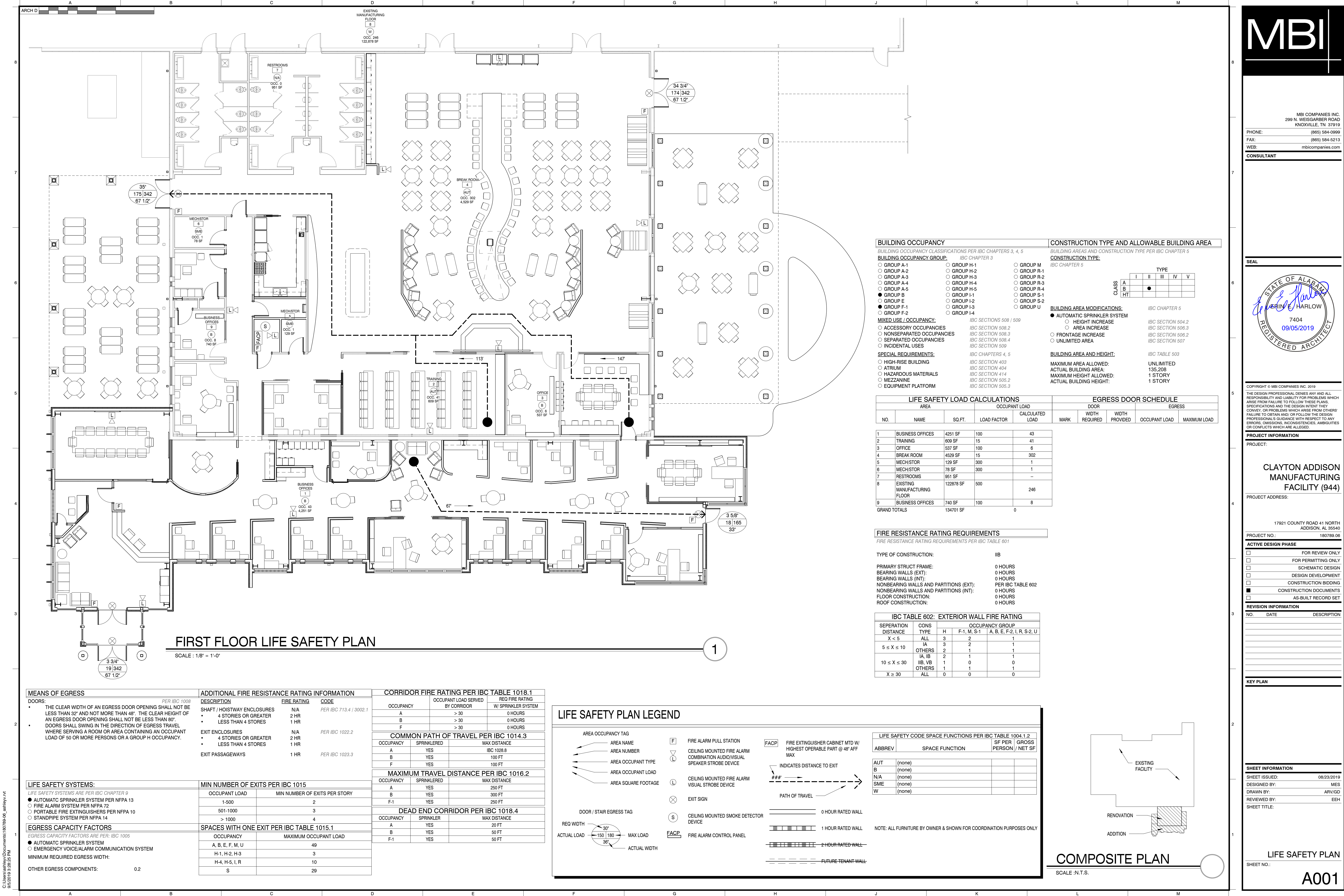
SHEET NO.:

C801







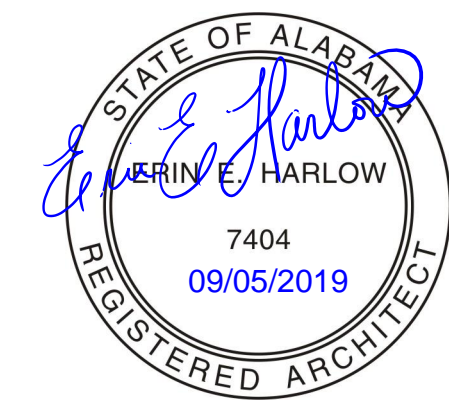


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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
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- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION

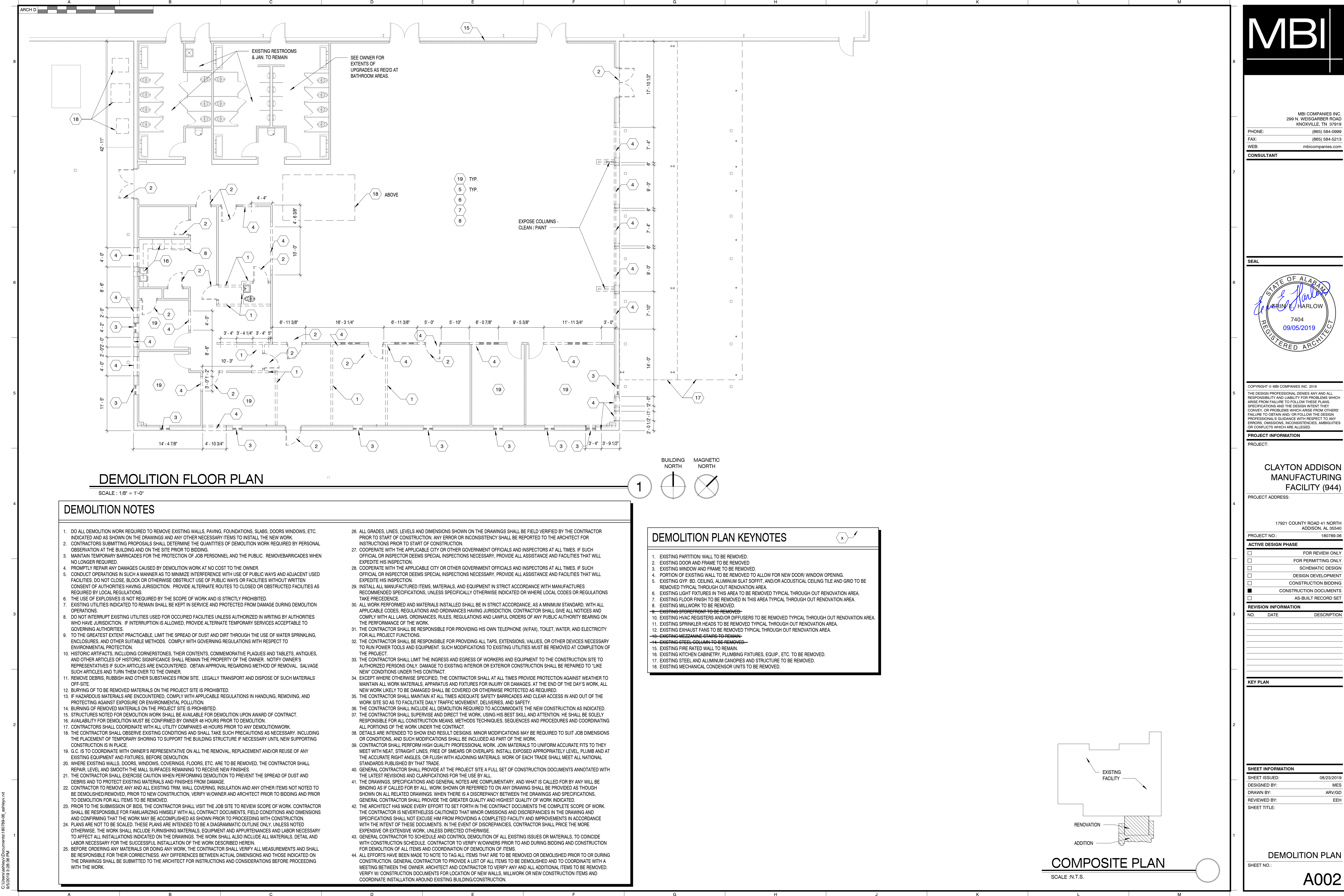
SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

LIFE SAFETY PLAN

SHEET NO.:

A001





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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

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- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
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- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GSD  
REVIEWED BY: EEH  
SHEET TITLE:

DEMOLITION PLAN

SHEET NO.:

A002



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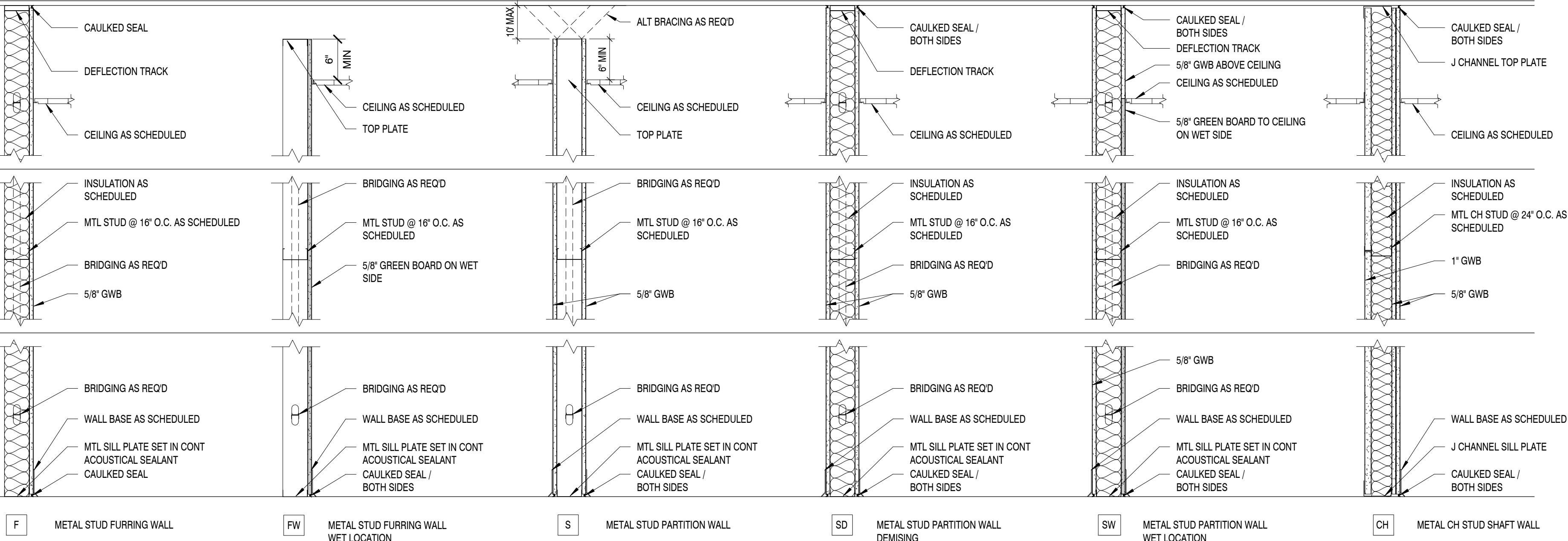
## INTERIOR WALL TYPES LEGEND

### HEAD

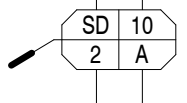
### PLAN

### SILL

### WALL TYPE ID



## WALL TYPE NOTES:

WALL TYPE TAG		WALL TYPE ID																	
WALL TYPE ID		CORE THICKNESS	S = METAL STUD	M = MASONRY / CMU	W = WOOD STUD														
			CH = METAL CH STUD	C = CONCRETE															
FIRE RATING		ADDITIONAL COMPONENTS	CORE THICKNESS																
			METAL STUD	WOOD STUD	MASONRY														
STUD WALL FIRE RATING CONSTRUCTION			H = 7/8" HAT CHANNEL	2 = 2x2 STUD	4 = 4" CMU														
<table><tr><th>WALL RATING</th><th>STUD WALL CONSTRUCTION</th></tr><tr><td>0 = NO FIRE RATING</td><td>GWB AS SHOWN</td></tr><tr><td>1 = 1 HOUR FIRE RATING</td><td>GWB AS SHOWN</td></tr><tr><td>2 = 2 HOUR FIRE RATING</td><td>2 LAYERS GWB EACH SIDE</td></tr><tr><td>3 = 3 HOUR FIRE RATING</td><td>3 LAYERS GWB EACH SIDE</td></tr><tr><td>4 = 4 HOUR FIRE RATING</td><td>4 LAYERS GWB EACH SIDE</td></tr><tr><td>S = SMOKE BARRIER</td><td>GWB AS SHOWN</td></tr></table>			WALL RATING	STUD WALL CONSTRUCTION	0 = NO FIRE RATING	GWB AS SHOWN	1 = 1 HOUR FIRE RATING	GWB AS SHOWN	2 = 2 HOUR FIRE RATING	2 LAYERS GWB EACH SIDE	3 = 3 HOUR FIRE RATING	3 LAYERS GWB EACH SIDE	4 = 4 HOUR FIRE RATING	4 LAYERS GWB EACH SIDE	S = SMOKE BARRIER	GWB AS SHOWN	1 = 1 5/8" STUD	3 = 2x3 STUD	6 = 6" CMU
			WALL RATING	STUD WALL CONSTRUCTION															
			0 = NO FIRE RATING	GWB AS SHOWN															
			1 = 1 HOUR FIRE RATING	GWB AS SHOWN															
			2 = 2 HOUR FIRE RATING	2 LAYERS GWB EACH SIDE															
			3 = 3 HOUR FIRE RATING	3 LAYERS GWB EACH SIDE															
			4 = 4 HOUR FIRE RATING	4 LAYERS GWB EACH SIDE															
			S = SMOKE BARRIER	GWB AS SHOWN															
2 = 2 1/2" STUD	4 = 2x4 STUD	8 = 8" CMU																	
3 = 3 5/8" STUD	6 = 2x6 STUD	12 = 12" CMU																	
4 = 4" STUD	8 = 2x8 STUD																		
5 = 5 1/2" STUD	10 = 2x10 STUD																		
6 = 6" STUD																			
8 = 8" STUD																			
10 = 10" STUD																			
12 = 12" STUD																			
WALL TYPE ADDITIONAL COMPONENTS			F	FW	S	SD	SW	CH	NOTES										
ADDITIONAL COMPONENTS GROUP CODE			•																
ADD SOUND ATTENUATION BATTS			45																
STC RATING																			
ADD RIGID INSULATION																			
ADD SPRAYFOAM INSULATION																			
PROVIDE LEAD LINED GYPSUM BOARD																			
PROVIDE FOIL LINED GYPSUM BOARD																			
PROVIDE SECURITY MESH ABOVE CEILING TO STRUCTURE ABOVE																			
ADD SMOKE SEAL																			

- NOTES:
- ALL FIRE RATED WALL ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL 263
  - PROVIDE TYPE-X GWB WHERE WALLS ARE FIRE RATED
  - ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AND SEALED IN ACCORDANCE WITH UL 263
  - PARTITION WALLS ARE UNINSULATED EXCEPT WHERE FIRE RATED OR WHERE NOTED IN THE ADDITIONAL COMPONENTS SCHEDULE.
  - SILL PLATES, TOP PLATES, AND DEFLECTION TRACKS SHALL BE OF SAME SIZE AND GAGE AS STUD
  - WHERE FURRING WALLS ARE UNINSULATED, GWB MAY STOP A MIN. OF 6" ABOVE CEILING
  - COORDINATE LOCATIONS OF EXPANSION JOINTS IN MASONRY WALLS WITH STRUCT DWGS
  - PROVIDE WATER RESISTANT BACKING BOARD ON BOTH SIDES OF WET WALLS WHERE BOTH SIDES ARE WET
  - PROVIDE WATER RESISTANT BACKING BOARD IN LIEU OF GWB AT THE FOLLOWING LOCATIONS.
    - WHERE INDICATED BY WALL TYPE
    - WET LOCATIONS SUCH AS WATER FOUNTAINS, SHOWER STALLS, TUB SURROUNDS.
    - WHERE CERAMIC TILE FINISHES ARE INDICATED. REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION.
  - WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITOR / MOP SINKS
  - WALL TYPES INDICATED ARE INDEPENDENT OF APPLIED FINISHES. SEE FINISH PLANS FOR ADDITIONAL INFORMATION.
  - WATER RESISTANT BACKING BOARD SHALL BE TYPE-X AND ON OUTSIDE LAYER WHERE WET WALLS ARE FIRE RATED.

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#### CONSULTANT

#### SEAL



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#### PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

#### ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

#### REVISION INFORMATION

NO.	DATE	DESCRIPTION

#### KEY PLAN

#### SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: MES

DRAWN BY: ARV/GD

REVIEWED BY: EEH

SHEET TITLE:

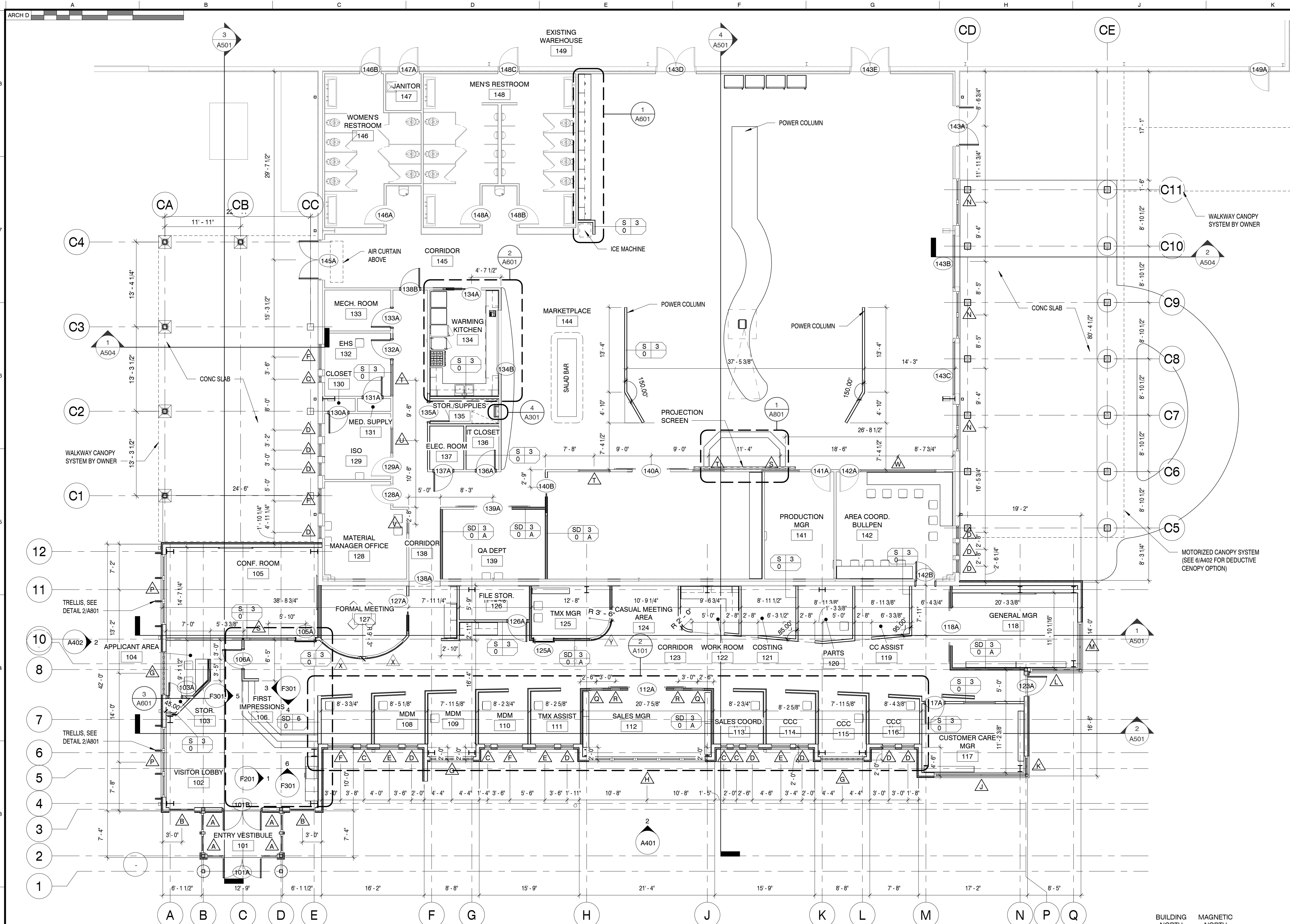
INTERIOR WALL TYPES

SHEET NO.:

# A003



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### OPAQUE THERMAL ENVELOPE REQUIREMENTS

**ROOFS**  
INSULATION ENTIRELY ABOVE DECK R-25CI  
METAL BUILDING R-19 + R-11 LS W/ R-5 THERMAL BLOCKS (a, b)  
ATTIC & OTHER R-38

**WALLS, ABOVE GRADE**  
MASS R-7.6CI  
METAL BUILDING R-13 + R-6.5CI  
METAL FRAMED R-13 + R-7.5CI  
WOOD FRAMED AND OTHER R-13 + R-3.8CI OR R-20

**WALLS, BELOW GRADE**  
BELOW GRADE WALL (d) NR

**FLOORS**  
MASS R-10CI  
JOIST / FRAMING R-30

**SLAB-ON-GRADE FLOORS**  
UNHEATED SLAB NR  
HEATED SLAB R-15 FOR 24 BELOW

**OPAQUE DOORS**  
SWINGING U-0.61  
ROLL-UP OR SLIDING R-4.75

FOR SI: 1 INCH = 25.4 MM. CI = CONTINUOUS INSULATION. NR = NO REQUIREMENT.

LS = LINER SYSTEM—A CONTINUOUS MEMBRANE INSTALLED BELOW THE PURLINS AND UNINTERRUPTED BY FRAMING MEMBERS. UNCOMPRESSED, UNFACED INSULATION RESTS ON TOP OF THE MEMBRANE BETWEEN THE PURLINS.

(a) ASSEMBLY DESCRIPTIONS CAN BE FOUND IN ANSI/ASHRAE/IESNA APPENDIX A

(b) WHERE USING R-VALUE COMPLIANCE METHOD, A THERMAL SPACER BLOCK SHALL BE PROVIDED, OTHERWISE USE THE U-FACTOR COMPLIANCE METHOD IN TABLE C402.1.2.

(c) R-5.7CI IS ALLOWED TO BE SUBSTITUTED WITH CONCRETE BLOCK WALLS COMPLYING WITH ASTM C 90, UNGROUTED OR PARTIALLY GROUTED AT 32 INCHES OR LESS ON CENTER VERTICALLY AND 48 INCHES OR LESS ON CENTER HORIZONTALLY, WITH UNGROUTED CORES FILLED WITH MATERIALS HAVING A MAXIMUM THERMAL CONDUCTIVITY OF 0.44 BTU-IN/H-F<sup>2</sup>.

(d) WHERE HEATED SLABS ARE BELOW GRADE, BELOW-GRADE WALLS SHALL COMPLY WITH THE EXTERIOR INSULATION REQUIREMENTS FOR HEATED SLABS.

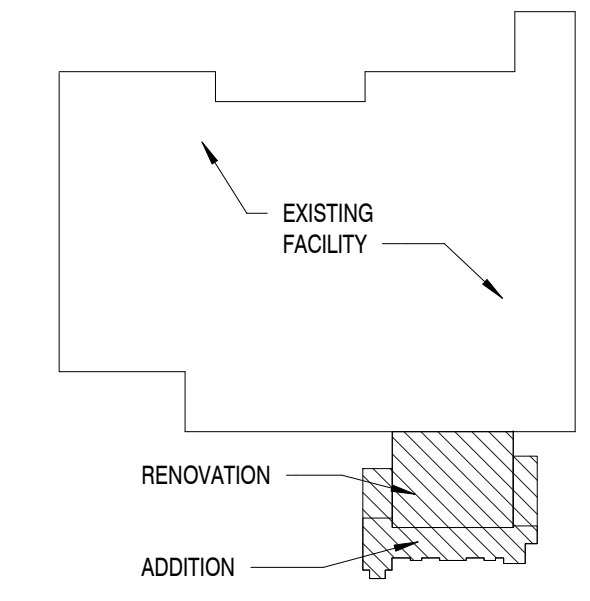
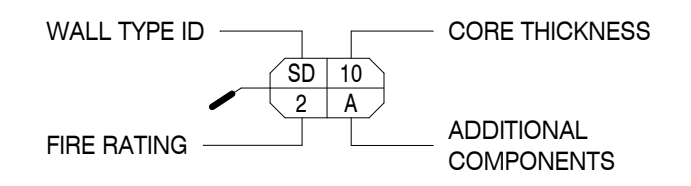
(e) STEEL FLOOR JOIST SYSTEMS SHALL BE INSULATED TO R-38.

### WALL LEGEND

- EXTERIOR WALL - SIDING ON MTL STUD
- WALL PARTITION - MTL STUD WALL
- WALL PARTITION - SOUND BARRIER - MTL STUD WALL
- WALL PARTITION - CMU WALL
- WALL PARTITION - 2 HOUR CMU WALL - SEE UL-0805
- WALL PARTITION - LOW WALL, VARIES 4'-0" - 7'-0" A.F.F. U.N.O.

- EJ = EXPANSION JOINT
- FOR MASONRY EXPANSION JOINTS - SEE STRUCTURAL SHEETS
- BRACE ALL METAL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C. MINIMUM.
- SEE INTERIOR WALL TYPES SHEET ON A101 FOR MORE INFORMATION
- SEE WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL CONSTRUCTION
- INTERIOR WALLS ARE TYPE S-3-S UNLESS OTHERWISE NOTED
- INTERIOR FURRINGS ARE TYPE F-9-0 UNLESS OTHERWISE NOTED

### WALL TYPE TAG



### COMPOSITE PLAN

SCALE: N.T.S.

# MBI

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CONSULTANT

SEAL

STATE OF ALABAMA  
KATHERINE E. HARLOW  
7404  
09/05/2019  
REGISTERED ARCHITECT

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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

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<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
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<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

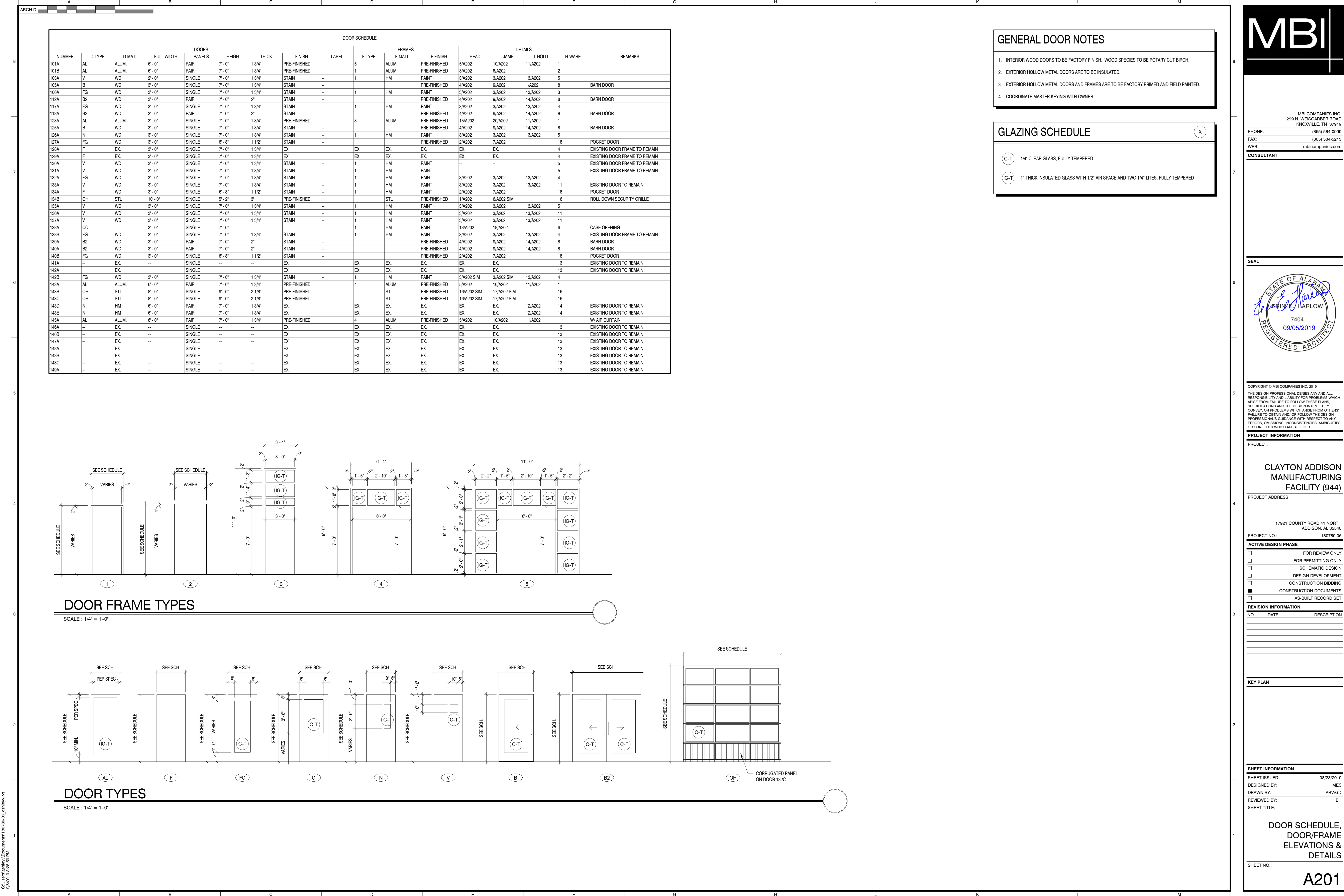
SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

FIRST FLOOR PLAN

SHEET NO.: A101





GENERAL DOOR NOTES

- 1. INTERIOR WOOD DOORS TO BE FACTORY FINISH. WOOD SPECIES TO BE ROTARY CUT BIRCH.
- 2. EXTERIOR HOLLOW METAL DOORS ARE TO BE INSULATED.
- 3. EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE FACTORY PRIMED AND FIELD PAINTED.
- 4. COORDINATE MASTER KEYING WITH OWNER.

GLAZING SCHEDULE

- 1/4" CLEAR GLASS, FULLY TEMPERED
- 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO 1/4" LITES, FULLY TEMPERED

MBI

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CHRISTINE HARLOW  
7404  
09/05/2019  
REGISTERED ARCHITECT

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REVISION INFORMATION  
NO. DATE DESCRIPTION

KEY PLAN

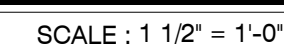
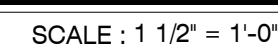
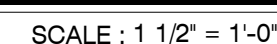
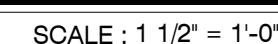
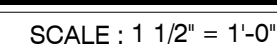
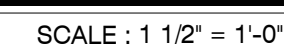
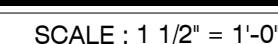
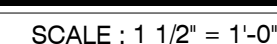
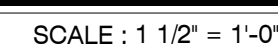
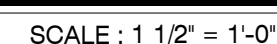
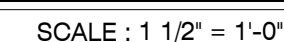
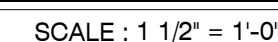
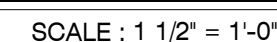
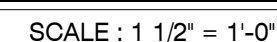
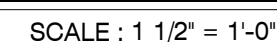
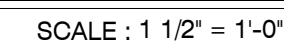
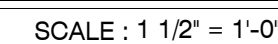
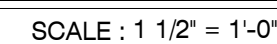
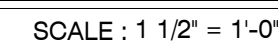
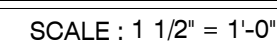
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SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EH  
SHEET TITLE:

DOOR SCHEDULE,  
DOOR/FRAME  
ELEVATIONS &  
DETAILS

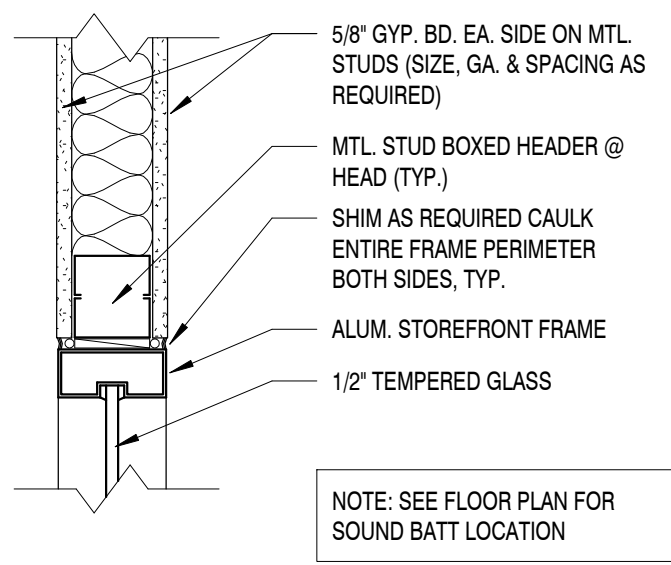
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A201





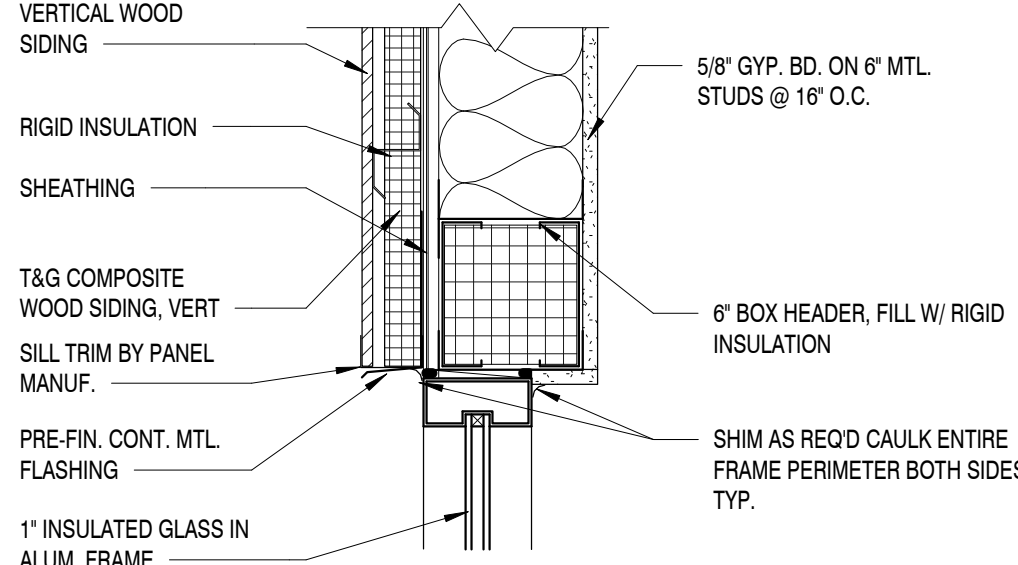




WINDOW HEAD/JAMB

SCALE : 1 1/2" = 1'-0"

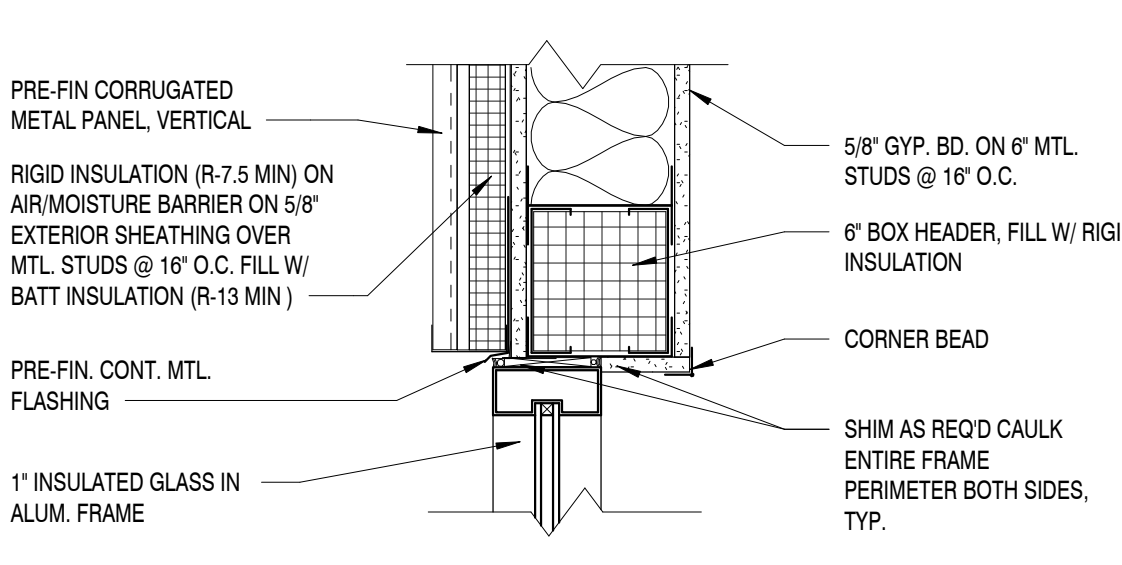
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WINDOW HEAD

SCALE : 1 1/2" = 1'-0"

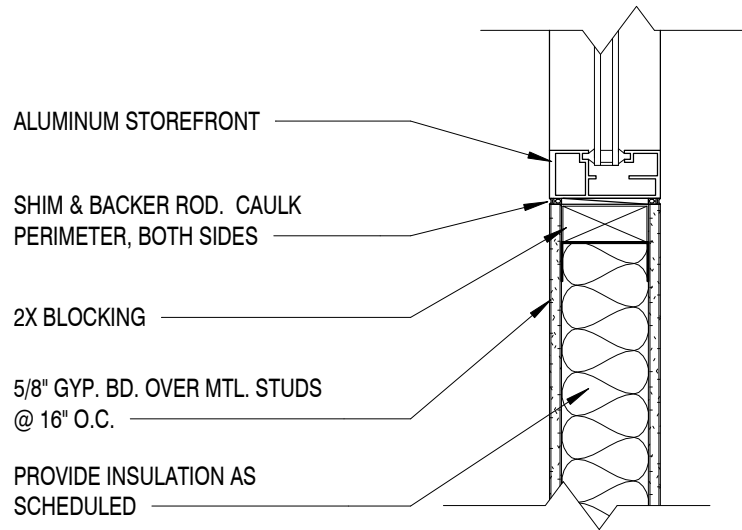
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WINDOW HEAD

SCALE : 1 1/2" = 1'-0"

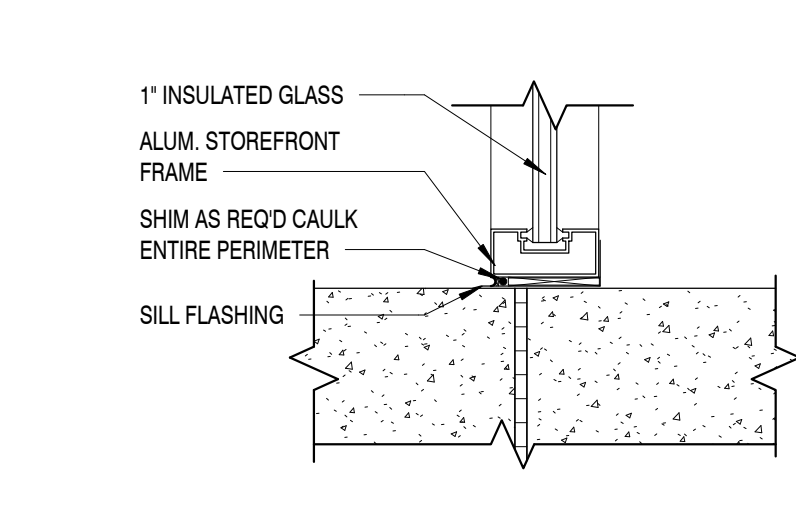
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WINDOW SILL

SCALE : 1 1/2" = 1'-0"

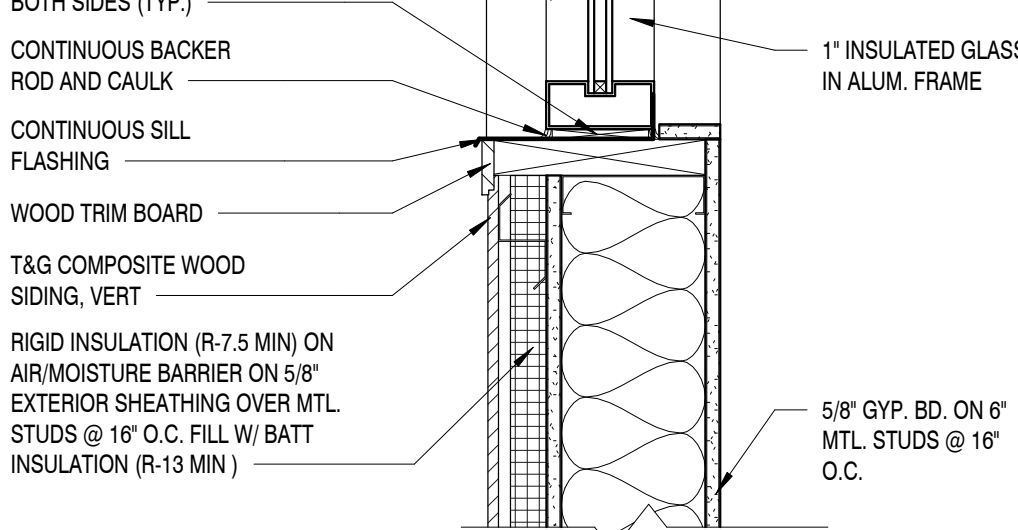
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WINDOW SILL

SCALE : 1 1/2" = 1'-0"

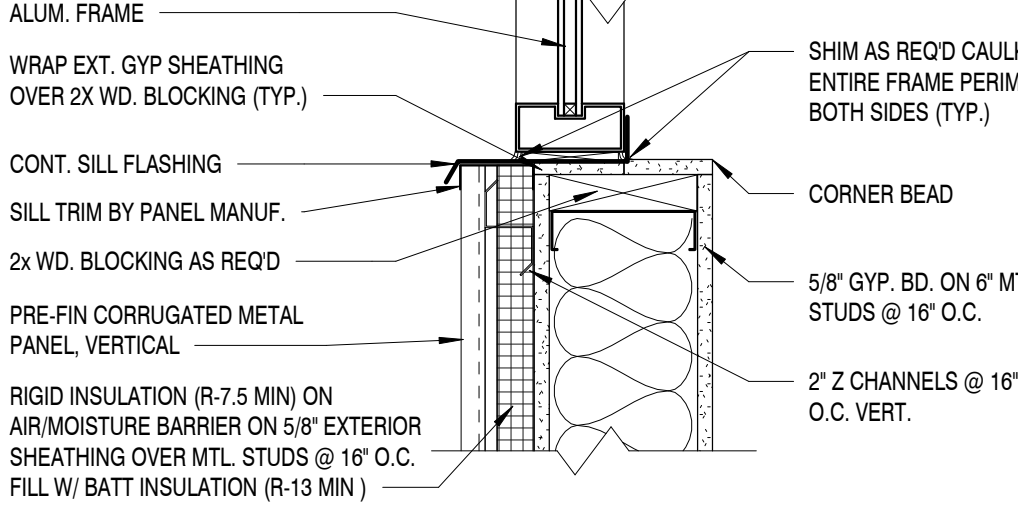
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WINDOW SILL

SCALE : 1 1/2" = 1'-0"

6



WINDOW SILL

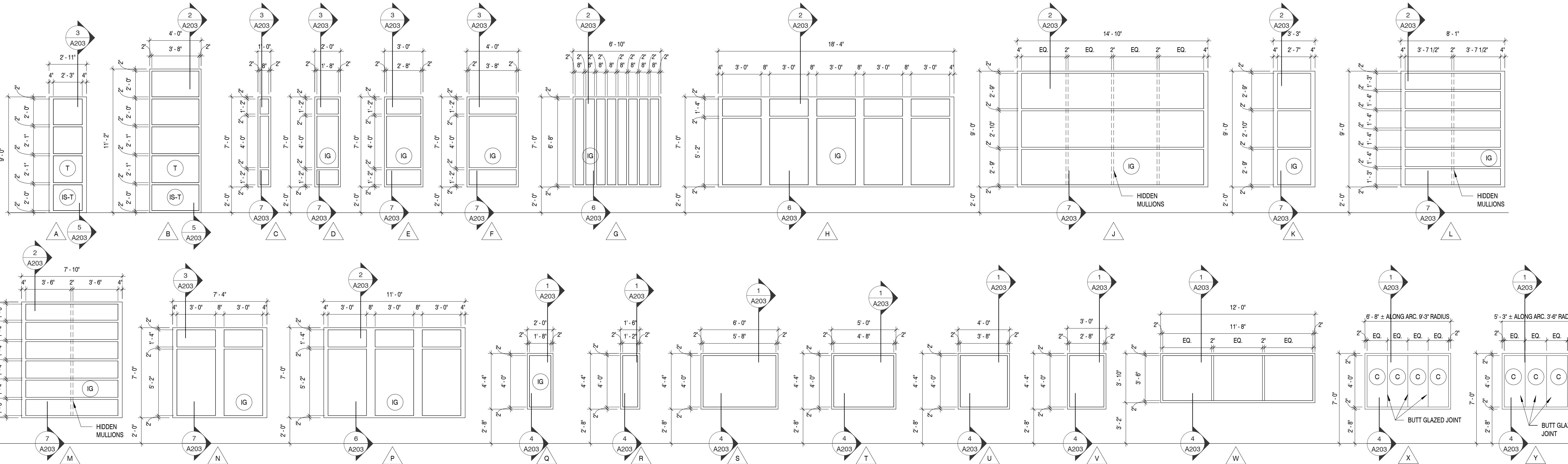
SCALE : 1 1/2" = 1'-0"

7

GLAZING SCHEDULE

- (C-T) 1/4" CLEAR GLASS, FULLY TEMPERED  
(IG-T) 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO 1/4" LITES, FULLY TEMPERED

\*ALL GLASS WITHIN 24" OF DOORS TO BE TEMPERED.



WINDOW ELEVATIONS

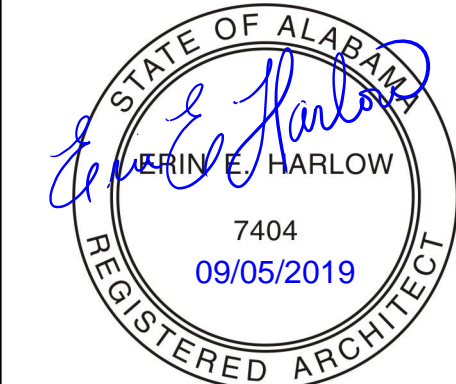
SCALE : 1/4" = 1'-0"

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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY  
☐ FOR PERMITTING ONLY  
☐ SCHEMATIC DESIGN  
☐ DESIGN DEVELOPMENT  
☐ CONSTRUCTION BIDDING  
☒ CONSTRUCTION DOCUMENTS  
☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

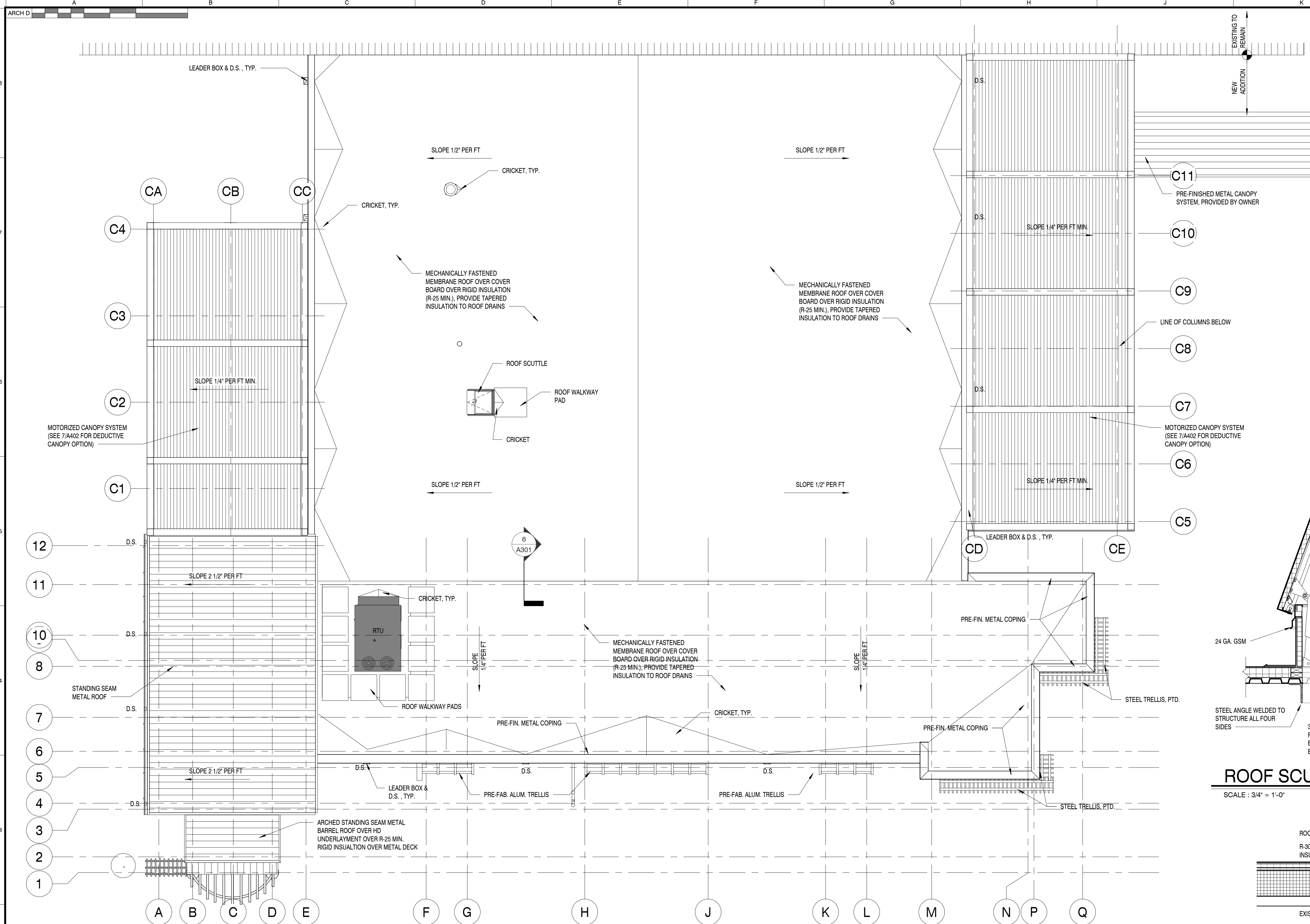
SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

WINDOW ELEVATIONS  
AND DETAILS

SHEET NO.:

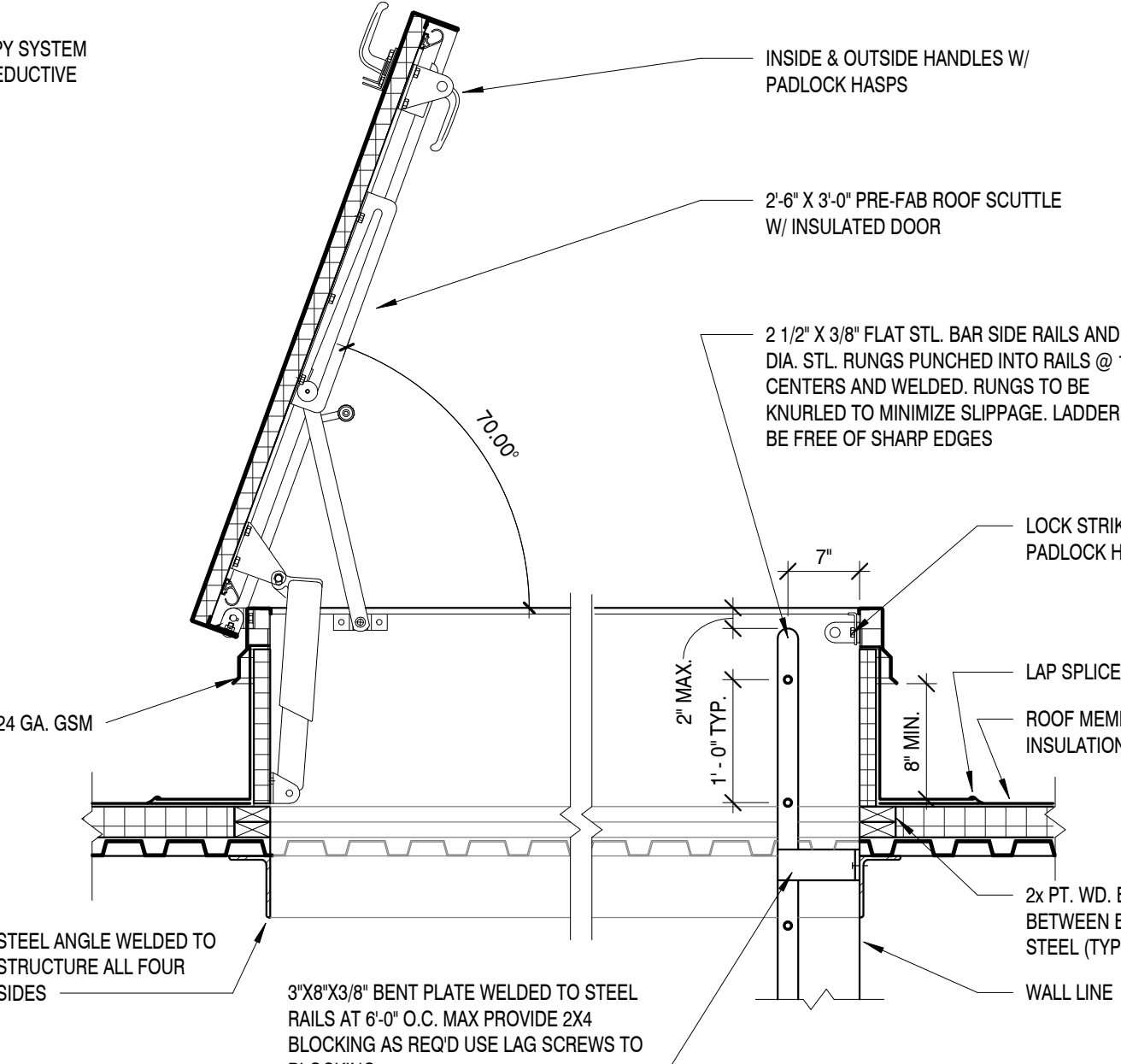
A203



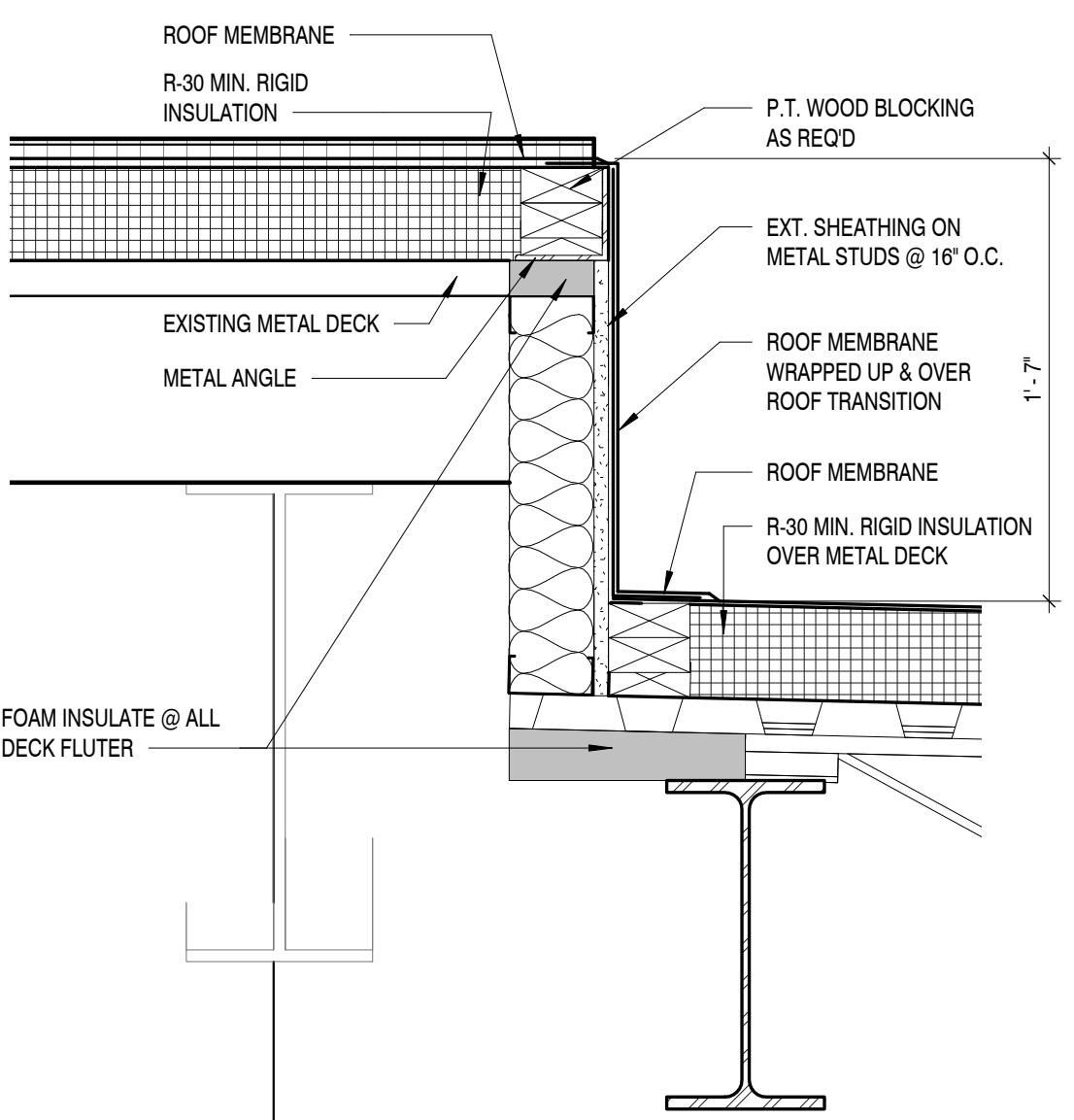


ROOF GENERAL NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY NUMBER, TYPE, AND LOCATIONS OF ALL UTILITIES AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO SATELLITE DISHES, HVAC UNITS, FANS, VENT PIPES, ETC. THAT WILL AFFECT HIS SCOPE OF WORK. CONTRACTOR SHALL INCLUDE IN HIS BID ALL NECESSARY WORK TO COORDINATE THE INSTALLATION OF NEW WORK WITH EXISTING UTILITIES AND EQUIPMENT.
- 2. THE CONTRACTOR SHALL, AT ALL TIMES PROTECT ALL EXISTING INTERIOR SPACES EXPOSED DURING CONSTRUCTION AGAINST DAMAGE DUE TO WEATHER OR CONSTRUCTION.
- 3. REUSE EXISTING CURBS, THOSE CURBS THAT ARE TOO SHORT BECAUSE OF ADDITIONAL INSULATION SHALL RECEIVE NEW TALLER NAILERS AT TOP OF CURB.
- 4. COORDINATE STAGING AREAS AND CONSTRUCTION ACCESS WITH OWNER PRIOR TO START OF CONSTRUCTION.
- 5. REPAIR AND RESEED ANY EXISTING GRASS AREAS DISTURBED DURING CONSTRUCTION OR STAGING.
- 6. PROVIDE NEW ROOF ACCESSORIES INCLUDING FLASHING BOOTS, COUNTER FLASHING, DRIP EDGES, COPING, AND ALL OTHER ACCESSORIES REQUIRED TO PROVIDE A WATER TIGHT ROOF SYSTEM THAT WILL MEET THE ROOF WARRANTY REQUIREMENTS.
- 7. REMOVE EXISTING ROOFING MEMBRANE AT ALL LOCATIONS SPECIFIED IN PLANS.
- 8. VERIFY MIN SLOPE OF 1/8" PER FOOT AT ALL ROOF CURBS AND CRICKETS
- 9. MINIMUM ROOF INSULATION TO MEET OPAQUE THERMAL ENVELOPE REQUIREMENT CHART LISTED ON A1.1 (R-25 CONTINUOUS INSULATION)
- 10. PROVIDE WALK PADS AROUND ALL HVAC EQUIPMENT TO MEET MANUFACTURER'S RECOMMENDATIONS.
- 11. ALL EXPOSED STEEL TO BE PAINTED. COLOR SELECTION BY OWNER/ARCHITECT.



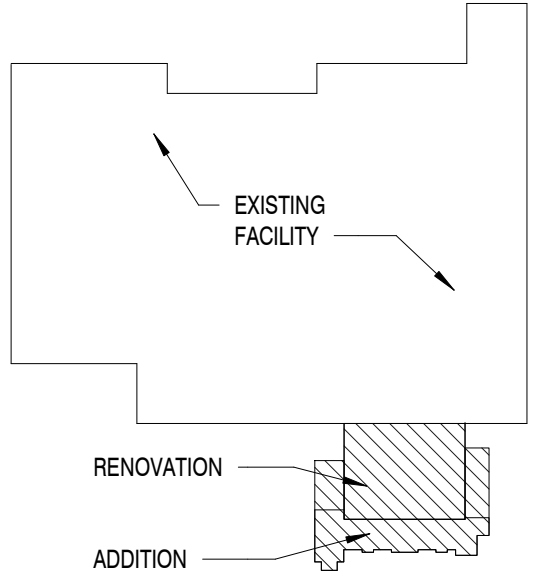
ROOF SCUTTLE DETAIL 5  
SCALE : 3/4" = 1'-0"



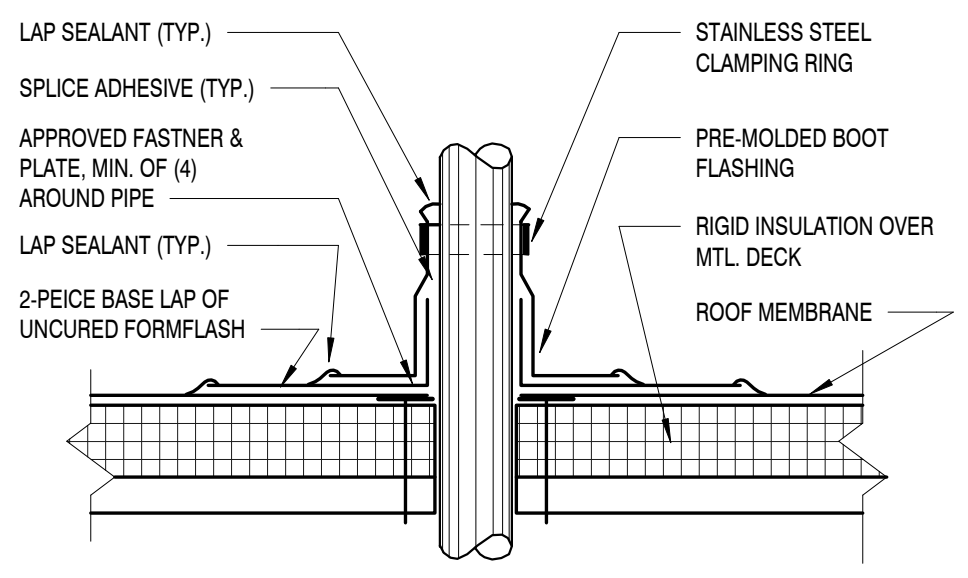
ROOF DETAIL 6  
SCALE : 1 1/2" = 1'-0"

ROOF PLAN

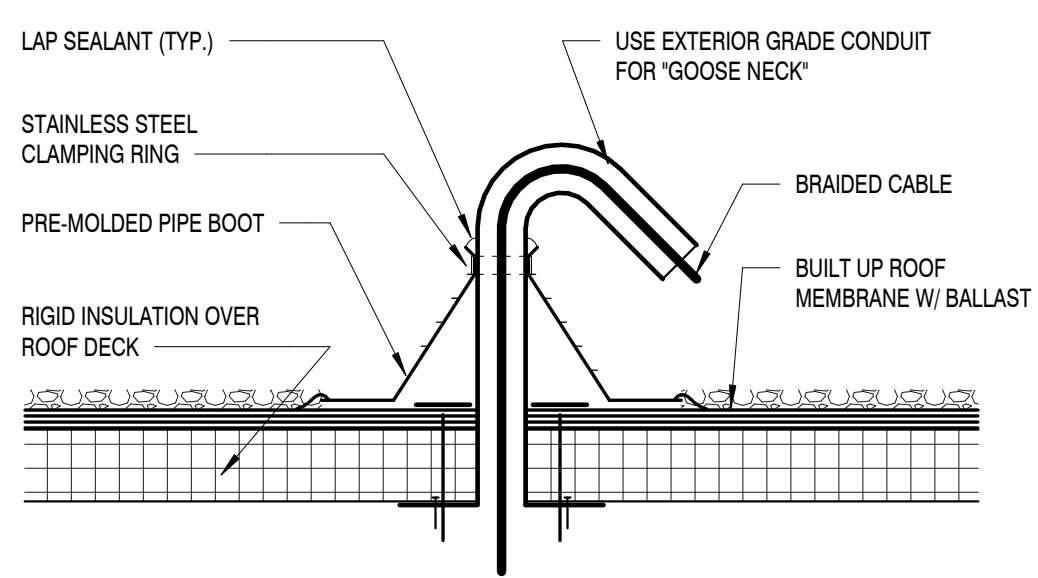
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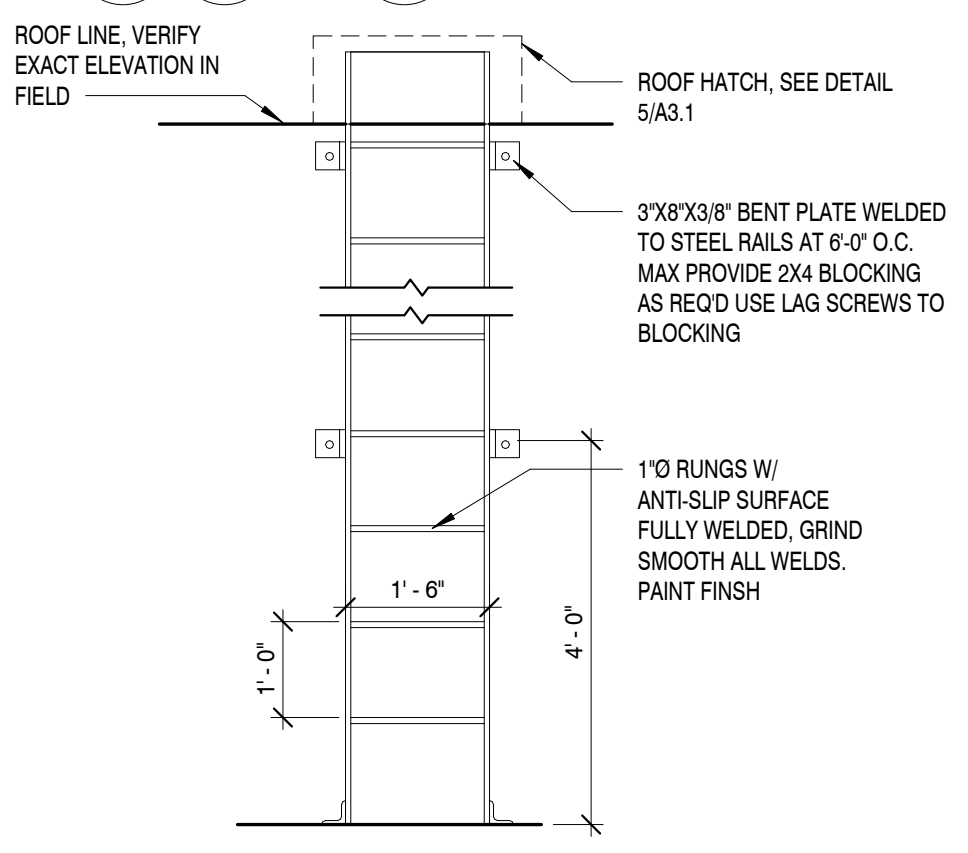
COMPOSITE PLAN  
SCALE : N.T.S.



VENT PIPE PEN. DTL 2  
SCALE : 1 1/2" = 1'-0"



ROOF CABLE PEN. DTL 3  
SCALE : 1 1/2" = 1'-0"



LADDER TO ROOF DETAIL 4  
SCALE : 1/2" = 1'-0"

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REGISTERED ARCHITECT

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09/05/2019

CLAYTON ADDISON

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PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

☐ FOR REVIEW ONLY

☐ FOR PERMITTING ONLY

☐ SCHEMATIC DESIGN

☐ DESIGN DEVELOPMENT

☐ CONSTRUCTION BIDDING

☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: MES

DRAWN BY: ARV/GD

REVIEWED BY: EEH

SHEET TITLE:

ROOF PLAN AND  
DETAILS

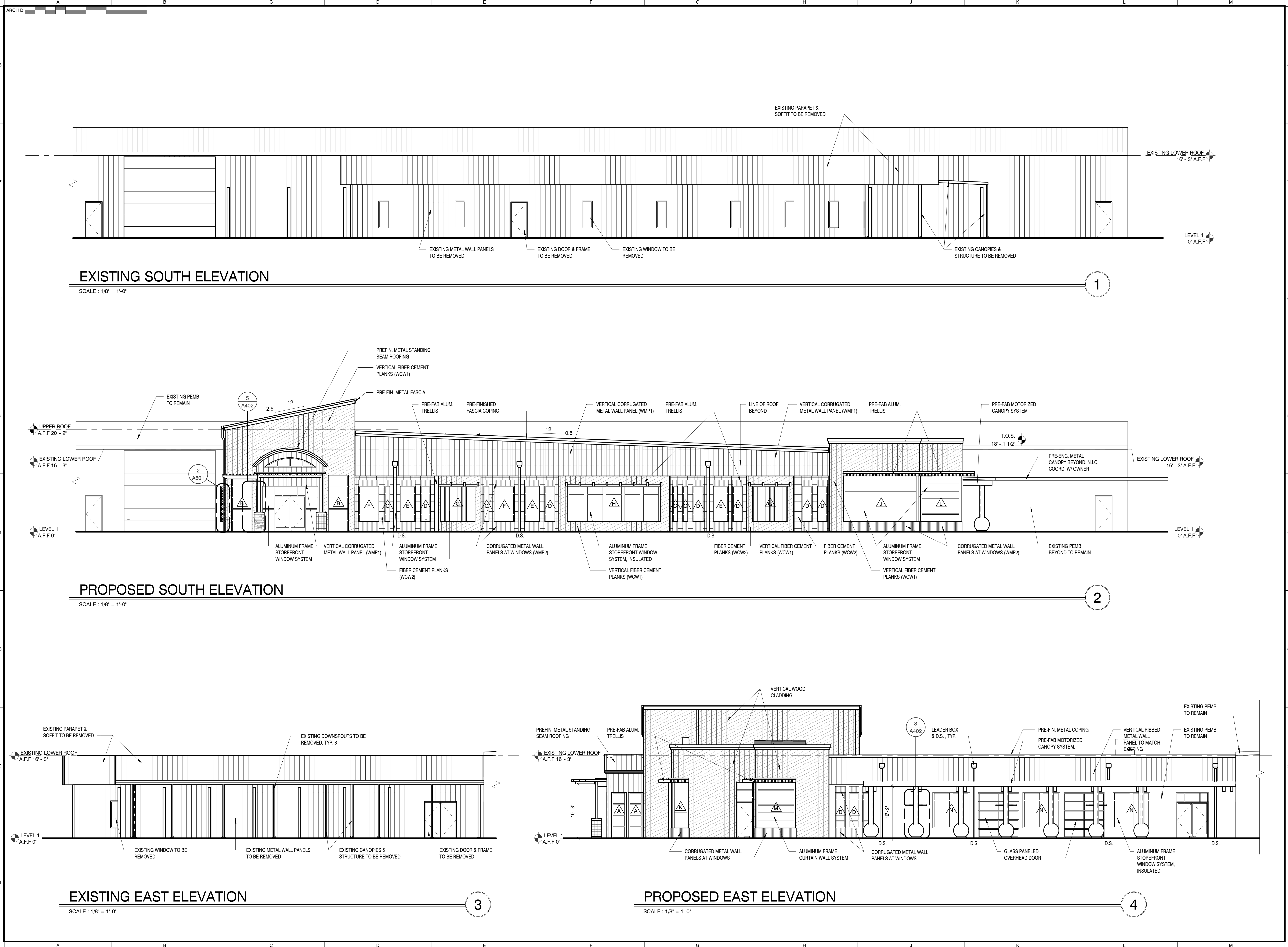
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A301

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STATE OF ALABAMA

*Shirine E. Harlow*

SHIRINE E. HARLOW

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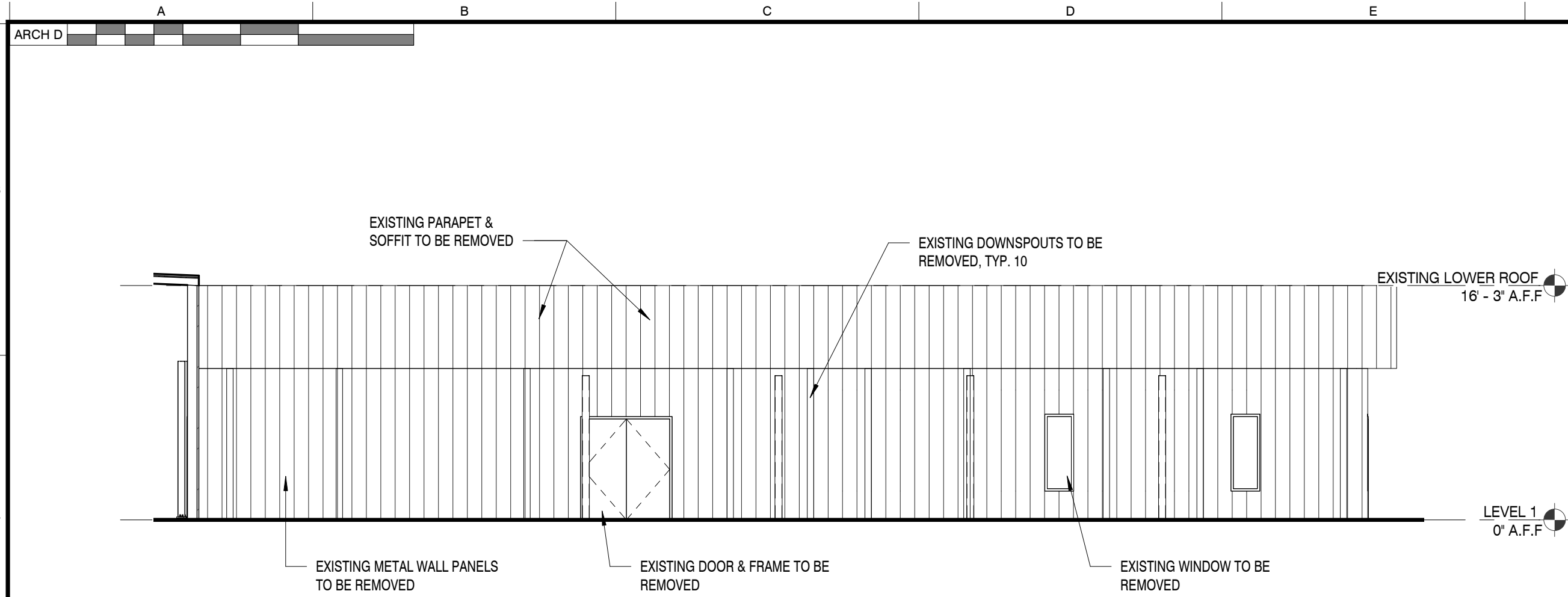
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DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NO.:

A401

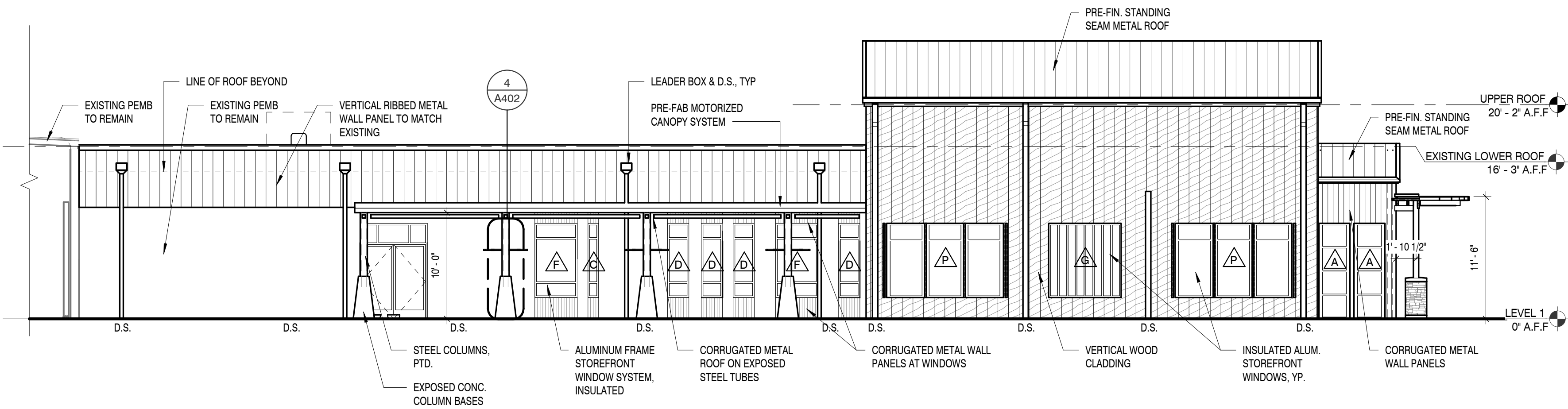




EXISTING WEST ELEVATION

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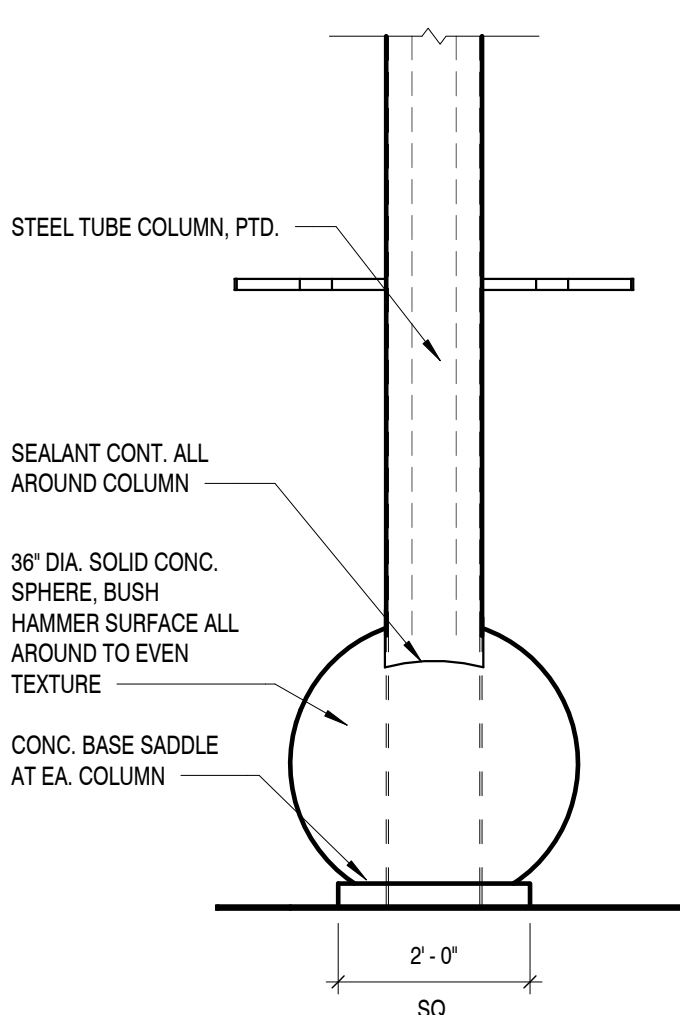
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PROPOSED WEST ELEVATION

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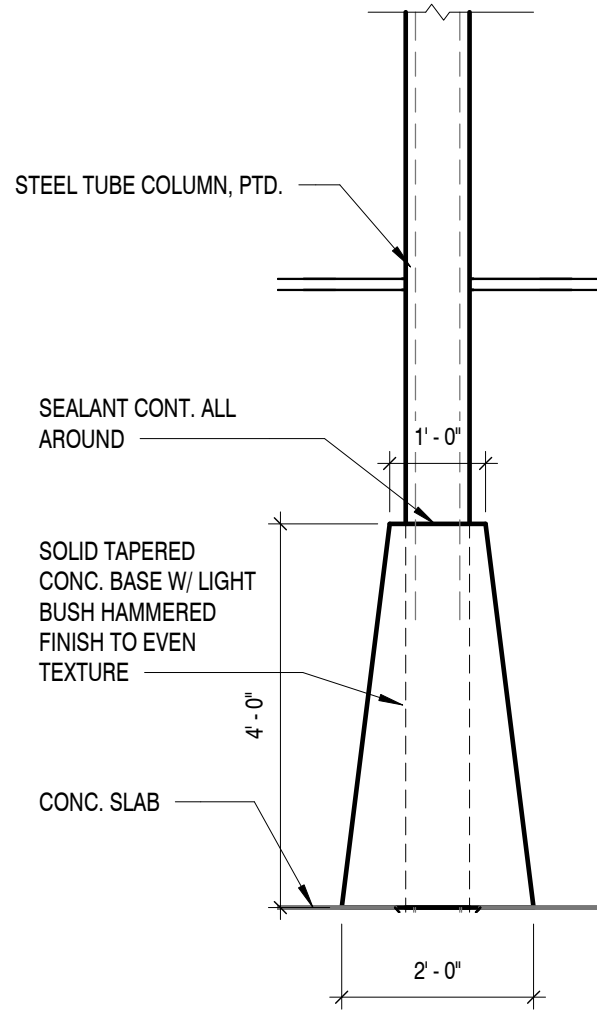
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COLUMN ELEVATION

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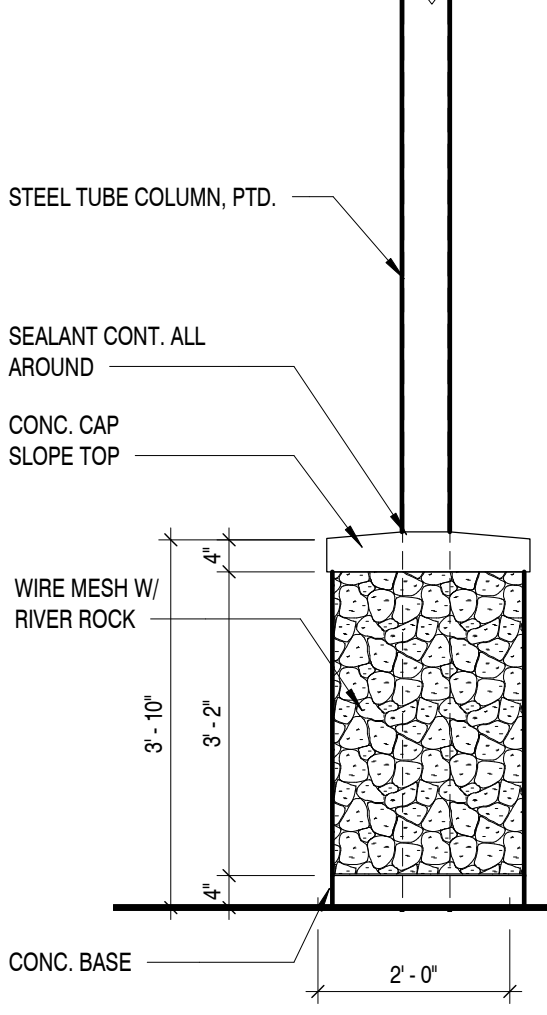
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COLUMN ELEVATION

SCALE : 1/2" = 1'-0"

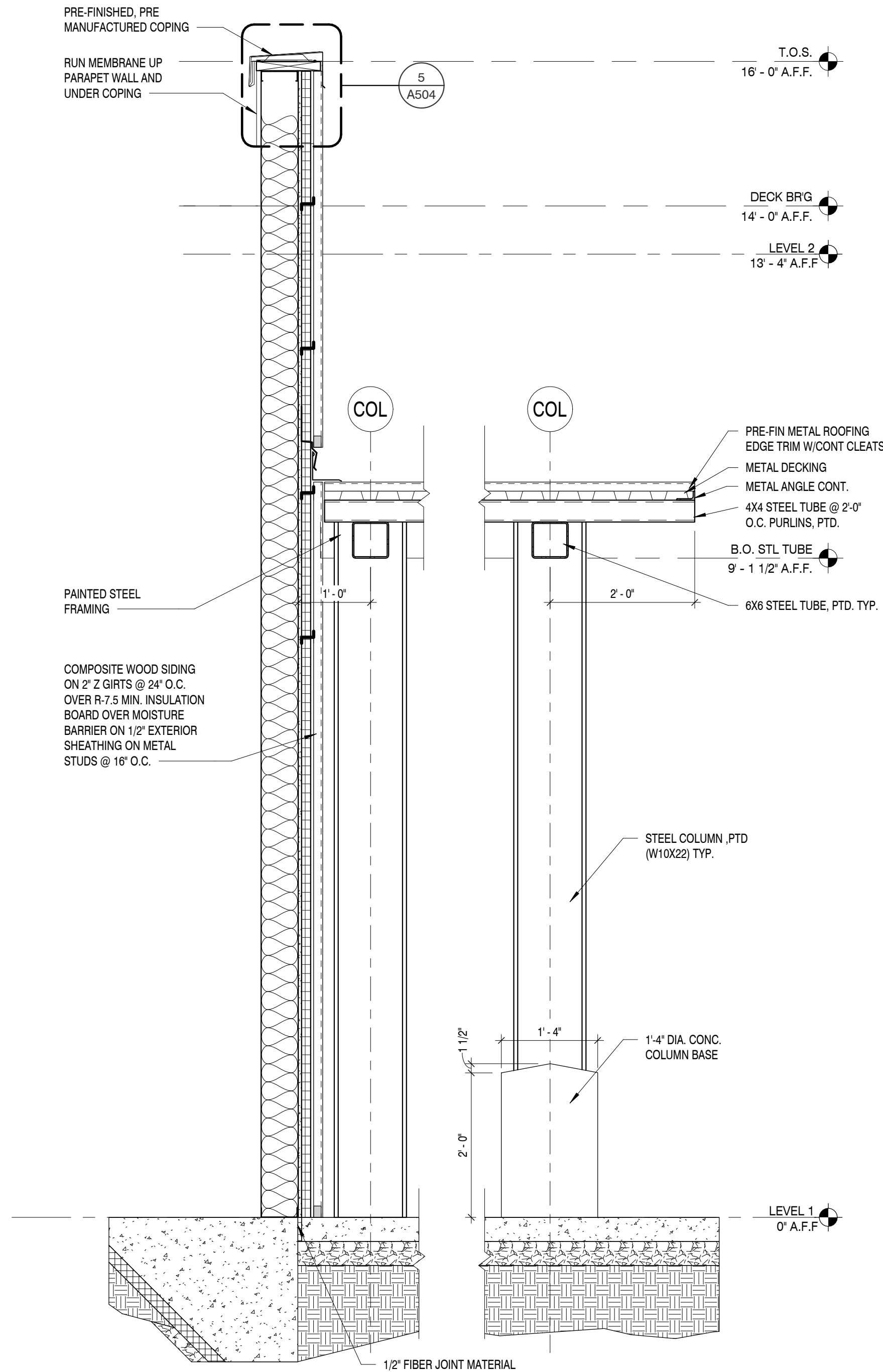
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COLUMN ELEVATION

SCALE : 1/2" = 1'-0"

5



DEDUCTIVE CANOPY DETAIL

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

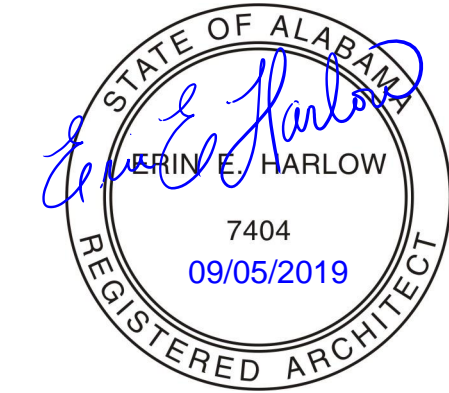
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SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

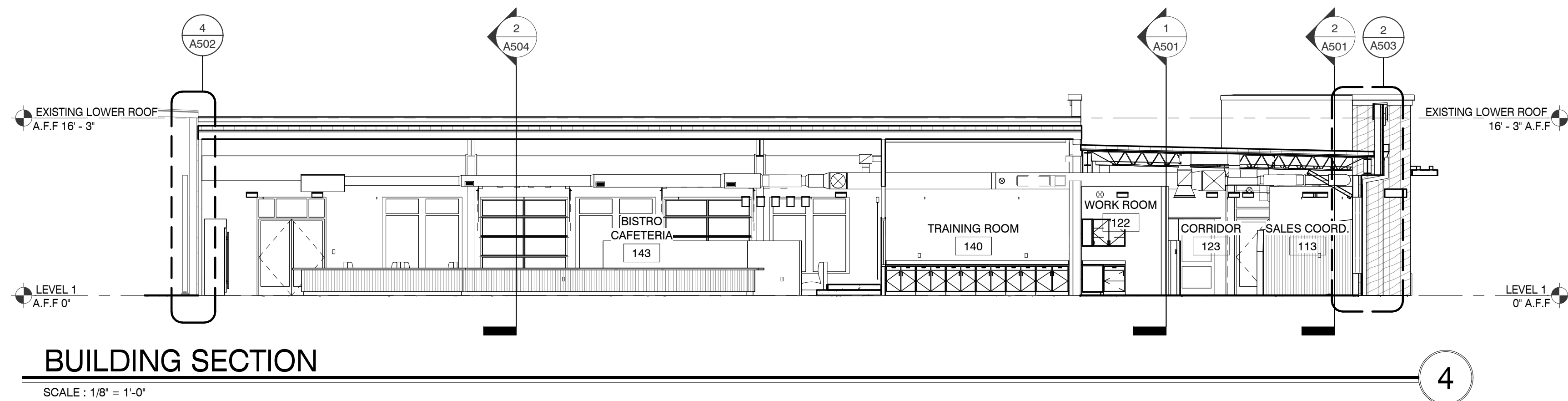
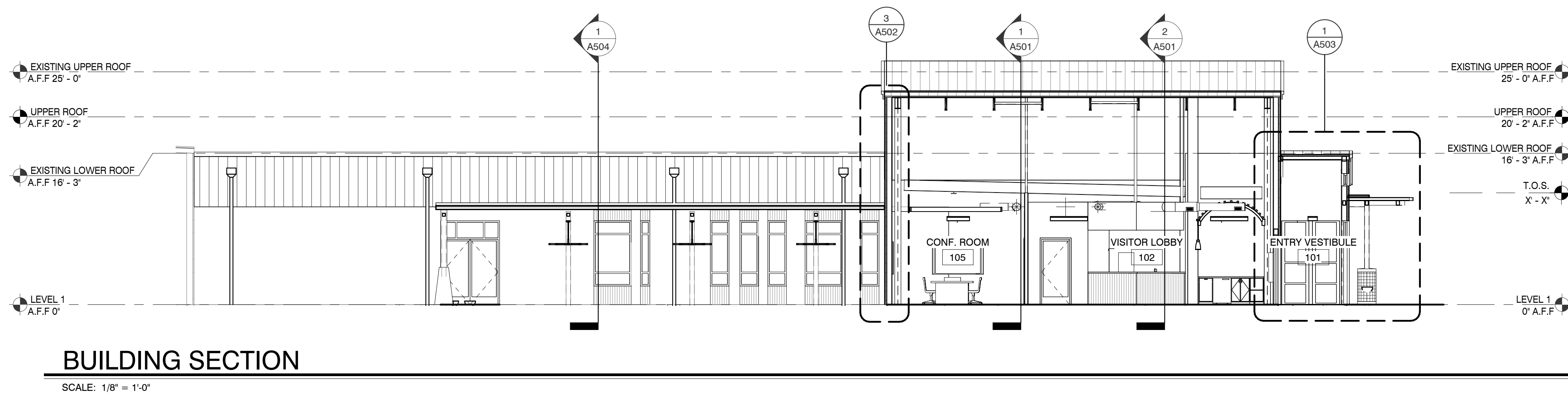
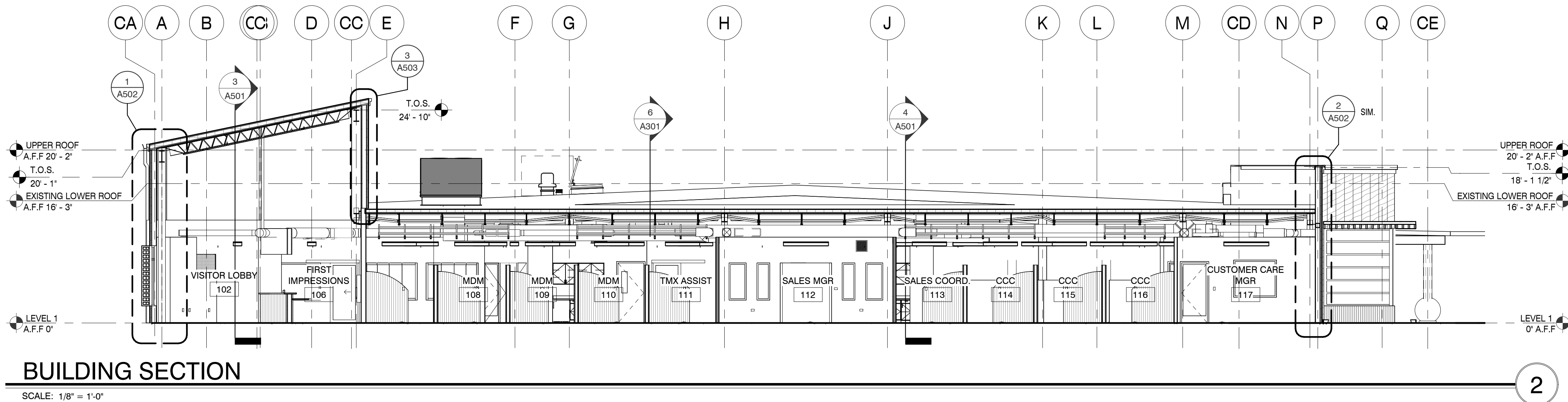
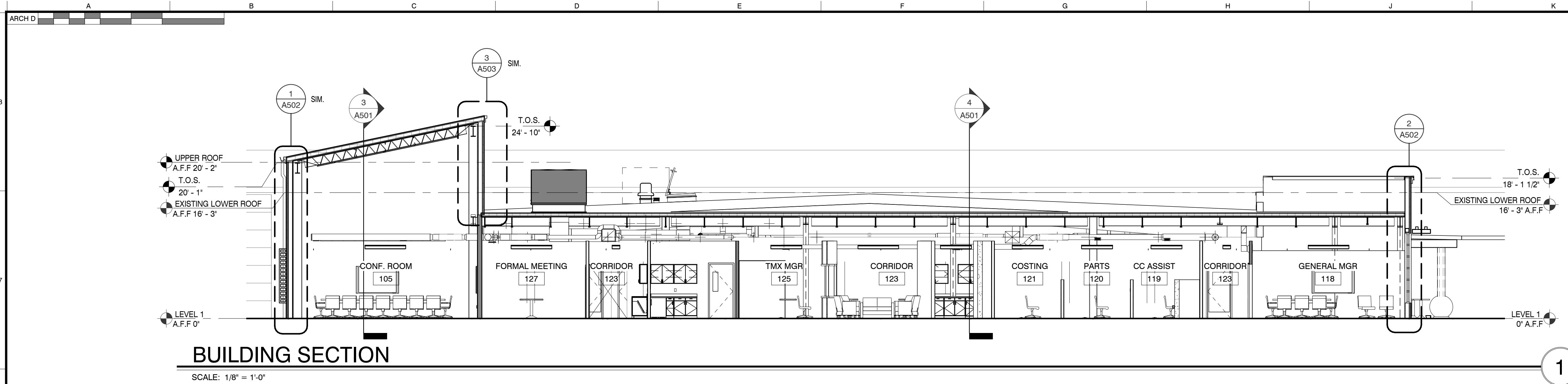
EXTERIOR ELEVATIONS

SHEET NO.:

A402



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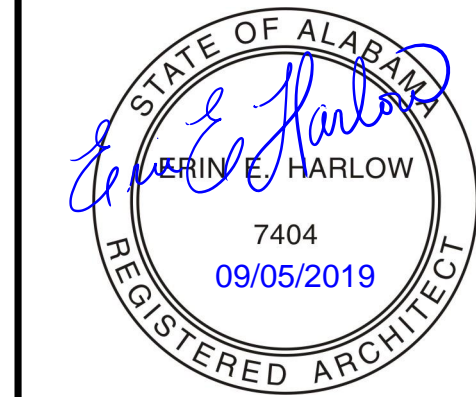


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☒ CONSTRUCTION DOCUMENTS  
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REVISION INFORMATION

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KEY PLAN

SHEET INFORMATION

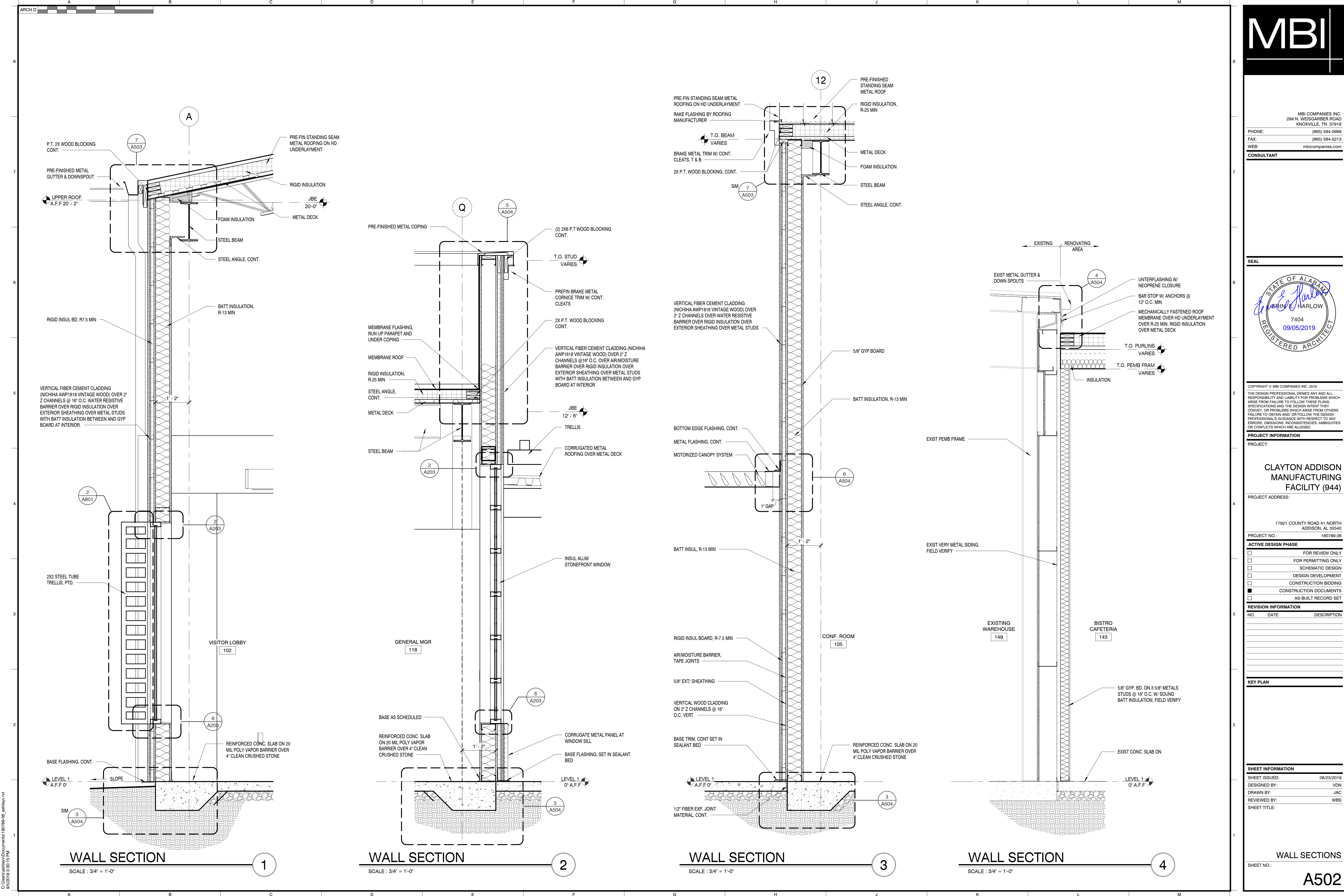
SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

BUILDING SECTIONS

SHEET NO.:

A501





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STATE OF ALABAMA

CLAYTON E. HARLOW

7404

09/05/2019

REGISTERED ARCHITECT

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☐ DESIGN DEVELOPMENT

☐ CONSTRUCTION BIDDING

☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: VDN

DRAWN BY: JAC

REVIEWED BY: WBS

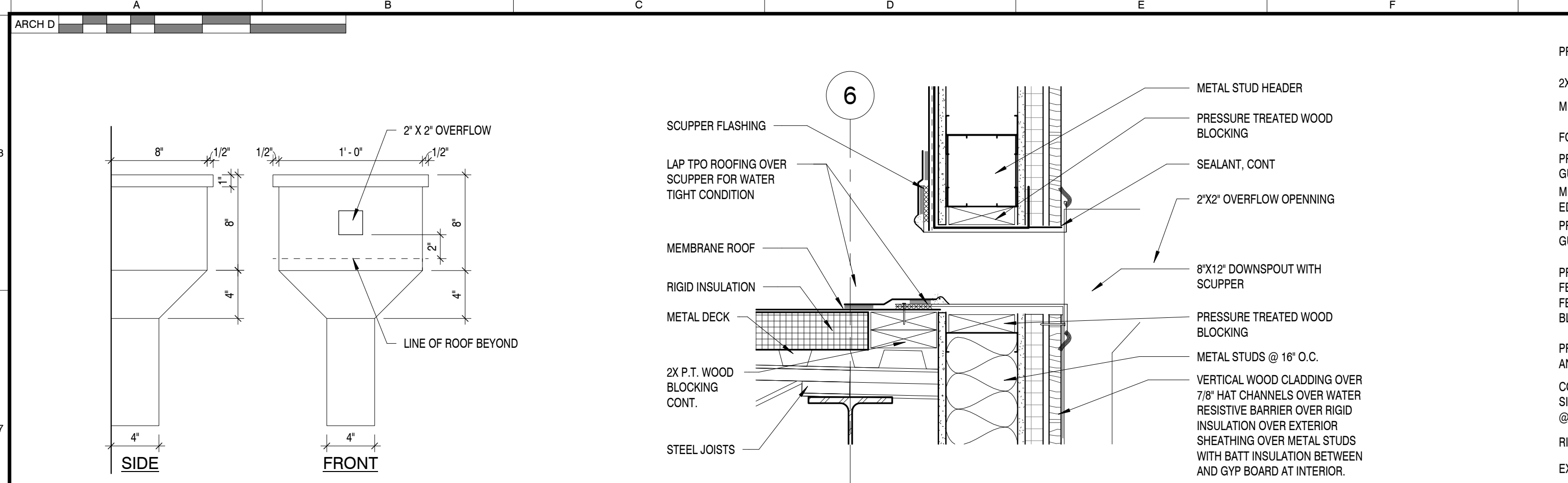
SHEET TITLE:

WALL SECTIONS

A502



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SCUPPER SIZE

SCALE : 1 1/2" = 1'-0"

SCUPPER DETAIL

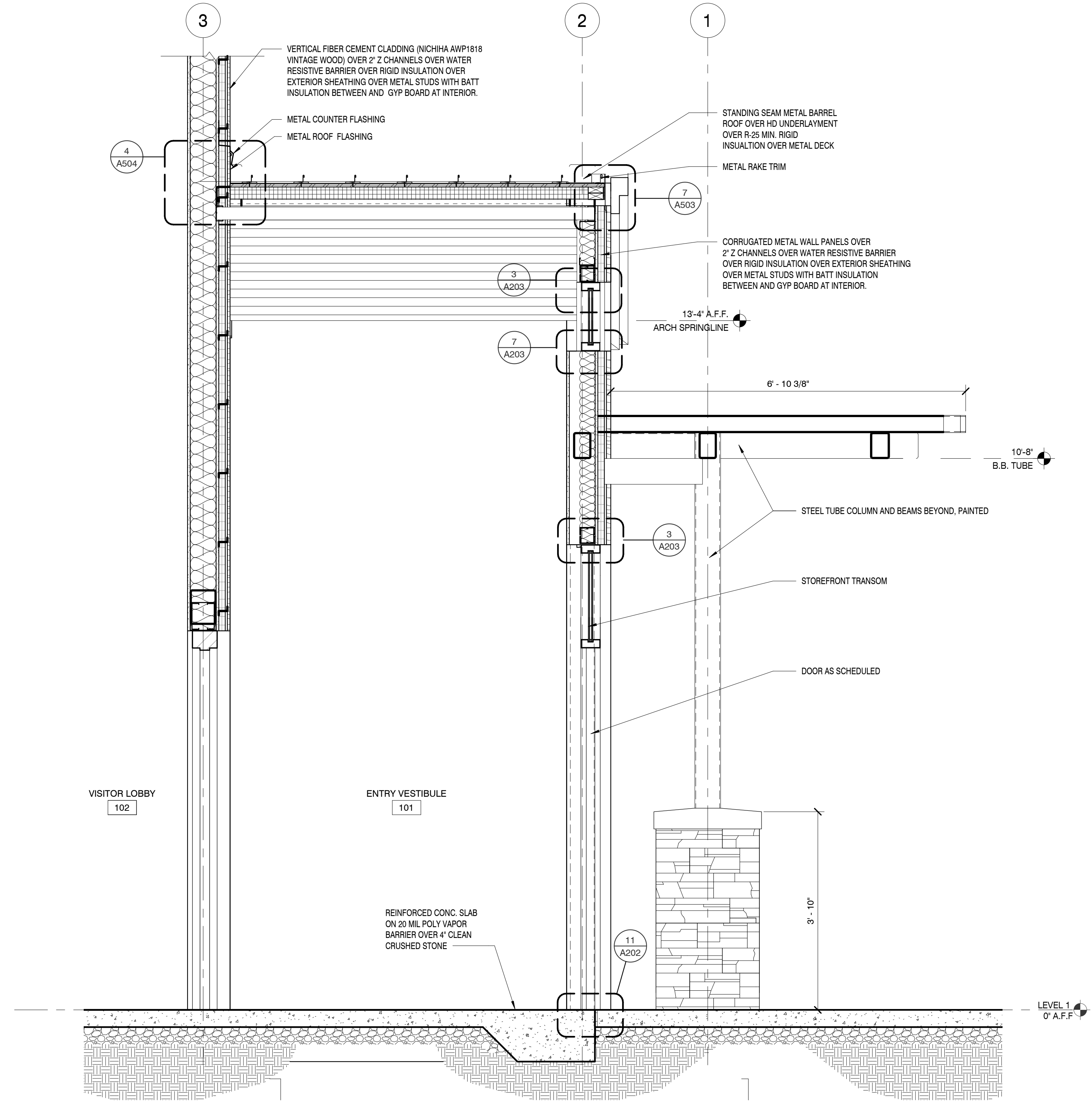
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CORNICE DETAIL

SCALE : 1 1/2" = 1'-0"

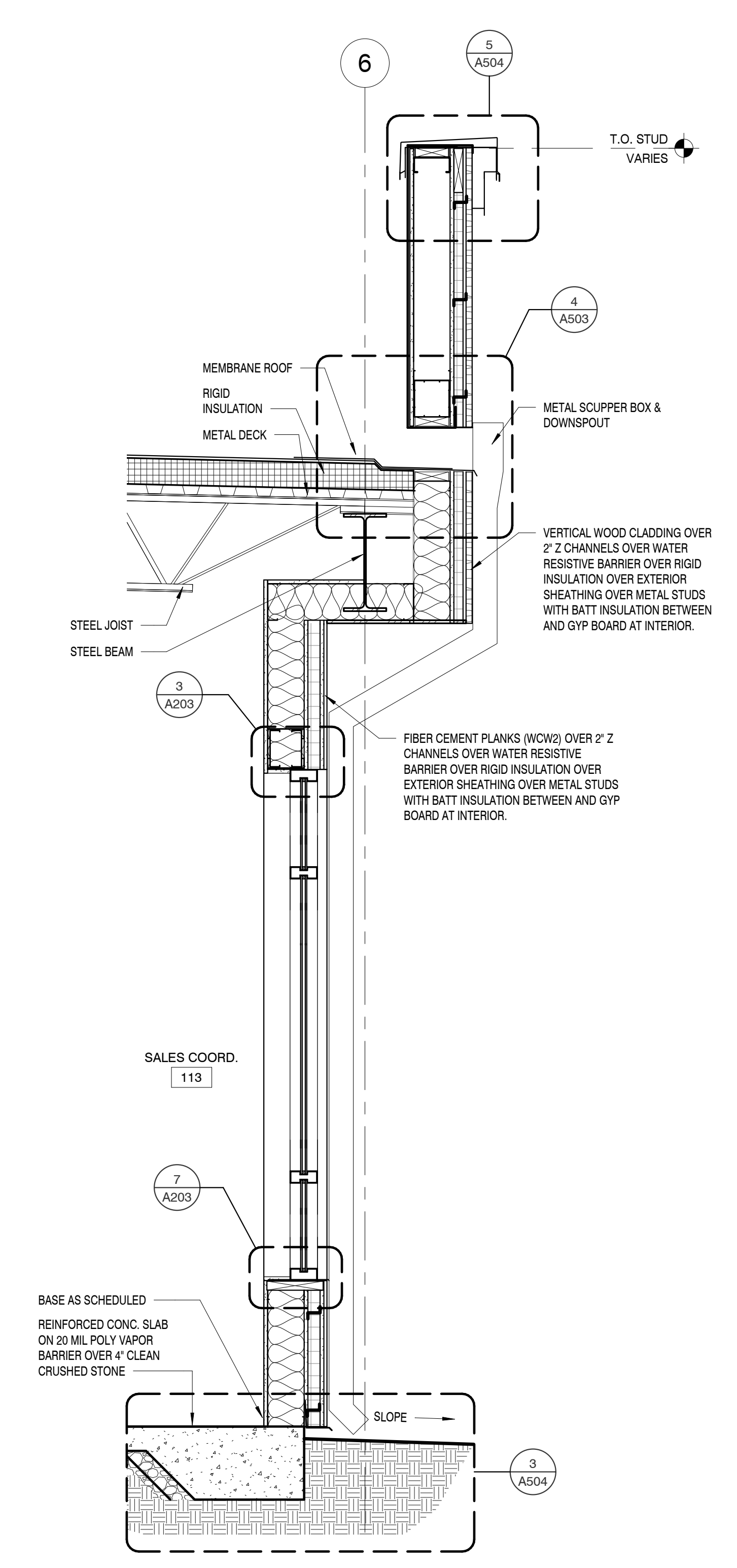
TERM. DTL. W/ SURF. MTD. COUNTER FLASHING

SCALE : 3" = 1'-0"



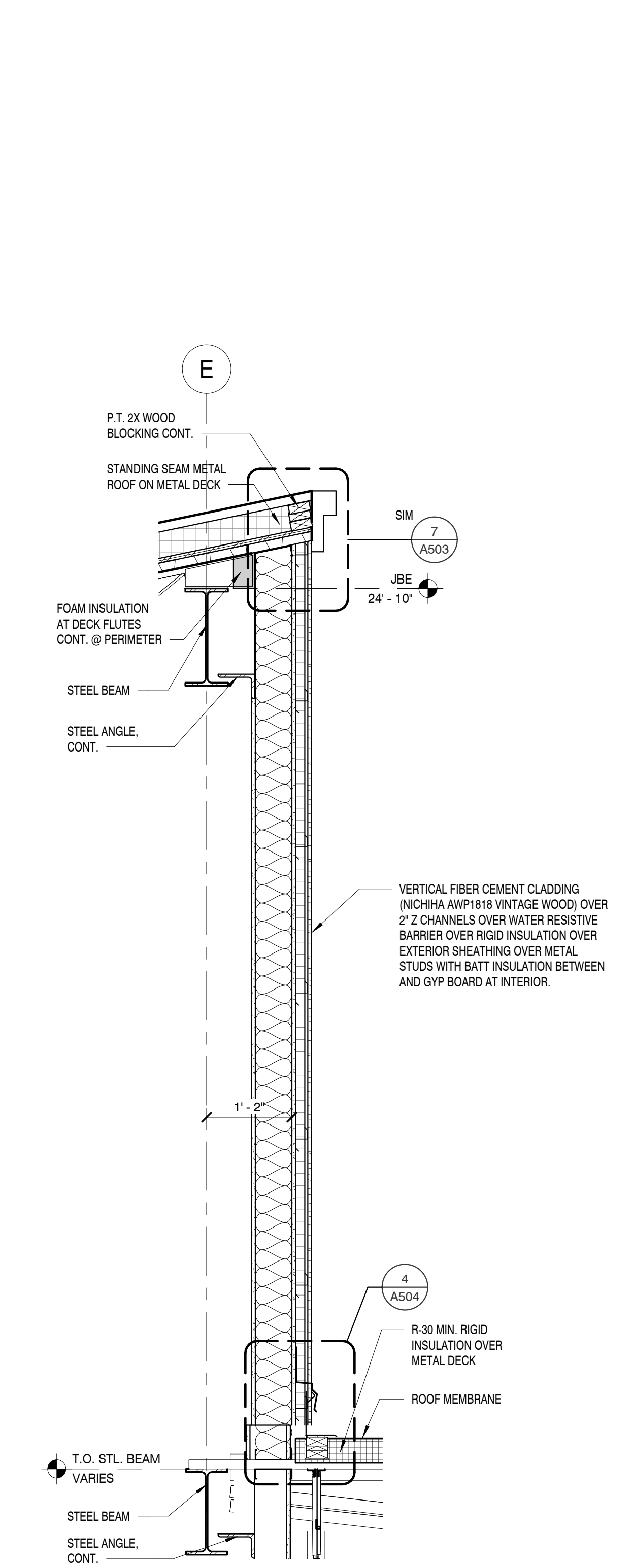
WALL SECTION

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



WALL SECTION

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



WALL SECTION

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

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REGISTERED ARCHITECT

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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

<input type="checkbox"/>	FOR REVIEW ONLY
<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: VDN  
DRAWN BY: JAC  
REVIEWED BY: WBS  
SHEET TITLE:

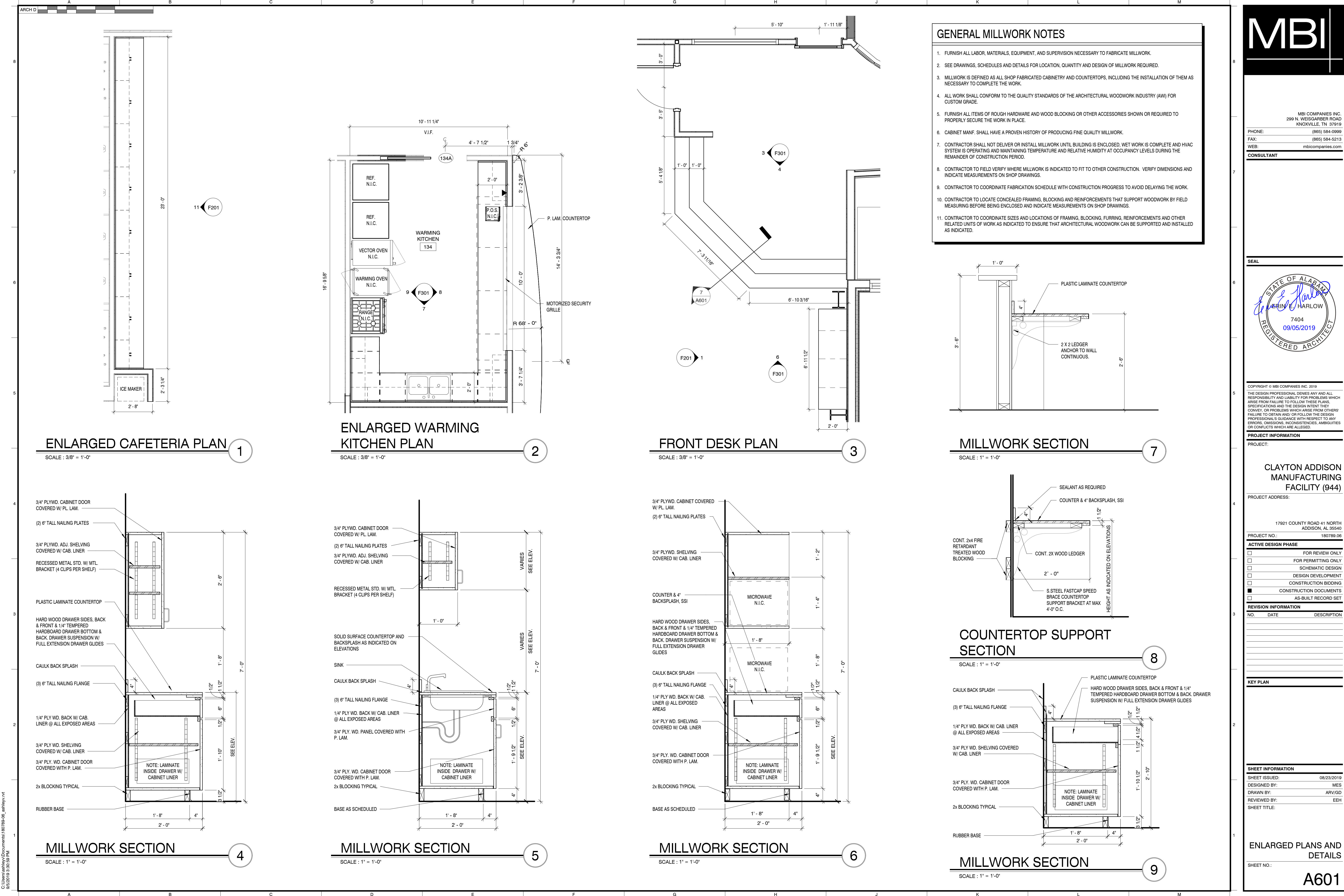
WALL SECTIONS

SHEET NO.: A503









GENERAL MILLWORK NOTES

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SUPERVISION NECESSARY TO FABRICATE MILLWORK.
2. SEE DRAWINGS, SCHEDULES AND DETAILS FOR LOCATION, QUANTITY AND DESIGN OF MILLWORK REQUIRED.
3. MILLWORK IS DEFINED AS ALL SHOP FABRICATED CABINETRY AND COUNTERTOPS, INCLUDING THE INSTALLATION OF THEM AS NECESSARY TO COMPLETE THE WORK.
4. ALL WORK SHALL CONFORM TO THE QUALITY STANDARDS OF THE ARCHITECTURAL WOODWORK INDUSTRY (AWI) FOR CUSTOM GRADE.
5. FURNISH ALL ITEMS OF ROUGH HARDWARE AND WOOD BLOCKING OR OTHER ACCESSORIES SHOWN OR REQUIRED TO PROPERLY SECURE THE WORK IN PLACE.
6. CABINET MANF. SHALL HAVE A PROVEN HISTORY OF PRODUCING FINE QUALITY MILLWORK.
7. CONTRACTOR SHALL NOT DELIVER OR INSTALL MILLWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETE AND HVAC SYSTEM IS OPERATING AND MAINTAINING TEMPERATURE AND RELATIVE HUMIDITY AT OCCUPANCY LEVELS DURING THE REMAINDER OF CONSTRUCTION PERIOD.
8. CONTRACTOR TO FIELD VERIFY WHERE MILLWORK IS INDICATED TO FIT TO OTHER CONSTRUCTION. VERIFY DIMENSIONS AND INDICATE MEASUREMENTS ON SHOP DRAWINGS.
9. CONTRACTOR TO COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
10. CONTRACTOR TO LOCATE CONCEALED FRAMING, BLOCKING AND REINFORCEMENTS THAT SUPPORT WOODWORK BY FIELD MEASURING BEFORE BEING ENCLOSED AND INDICATE MEASUREMENTS ON SHOP DRAWINGS.
11. CONTRACTOR TO COORDINATE SIZES AND LOCATIONS OF FRAMING, BLOCKING, FURRING, REINFORCEMENTS AND OTHER RELATED UNITS OF WORK AS INDICATED TO ENSURE THAT ARCHITECTURAL WOODWORK CAN BE SUPPORTED AND INSTALLED AS INDICATED.

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17921 COUNTY ROAD 41 NORTH  
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PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
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- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

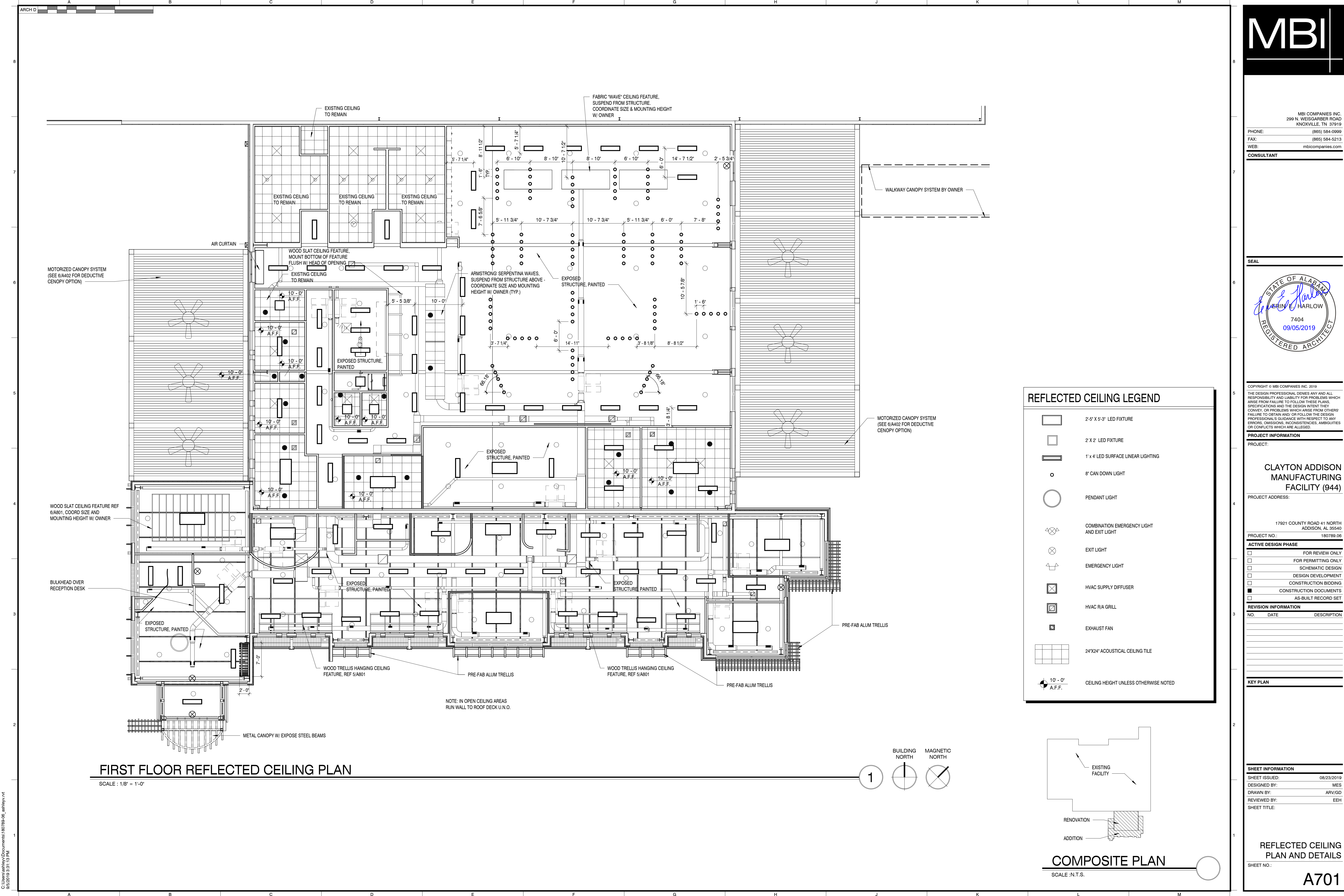
SHEET ISSUED: 08/23/2019  
DESIGNED BY: MES  
DRAWN BY: ARV/GD  
REVIEWED BY: EEH  
SHEET TITLE:

ENLARGED PLANS AND  
DETAILS

SHEET NO.:

A601





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CONSULTANT

SEAL

STATE OF ALABAMA

*Clayton Addison*

CLAYTON E. HARLOW

7404

09/05/2019

REGISTERED ARCHITECT

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☐ CONSTRUCTION BIDDING

☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: MES

DRAWN BY: ARV/GD

REVIEWED BY: EEH

SHEET TITLE:

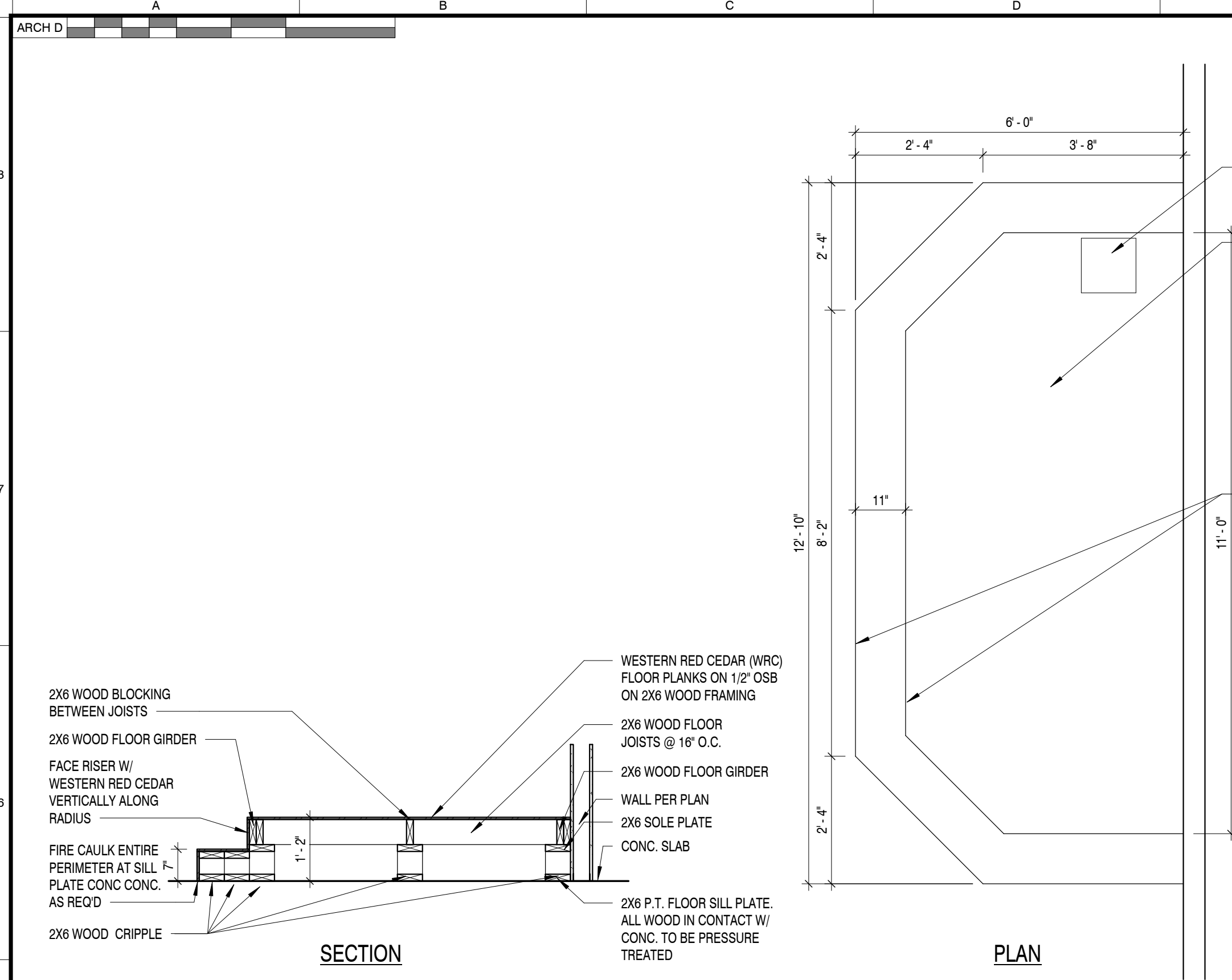
REFLECTED CEILING  
PLAN AND DETAILS

SHEET NO.:

A701



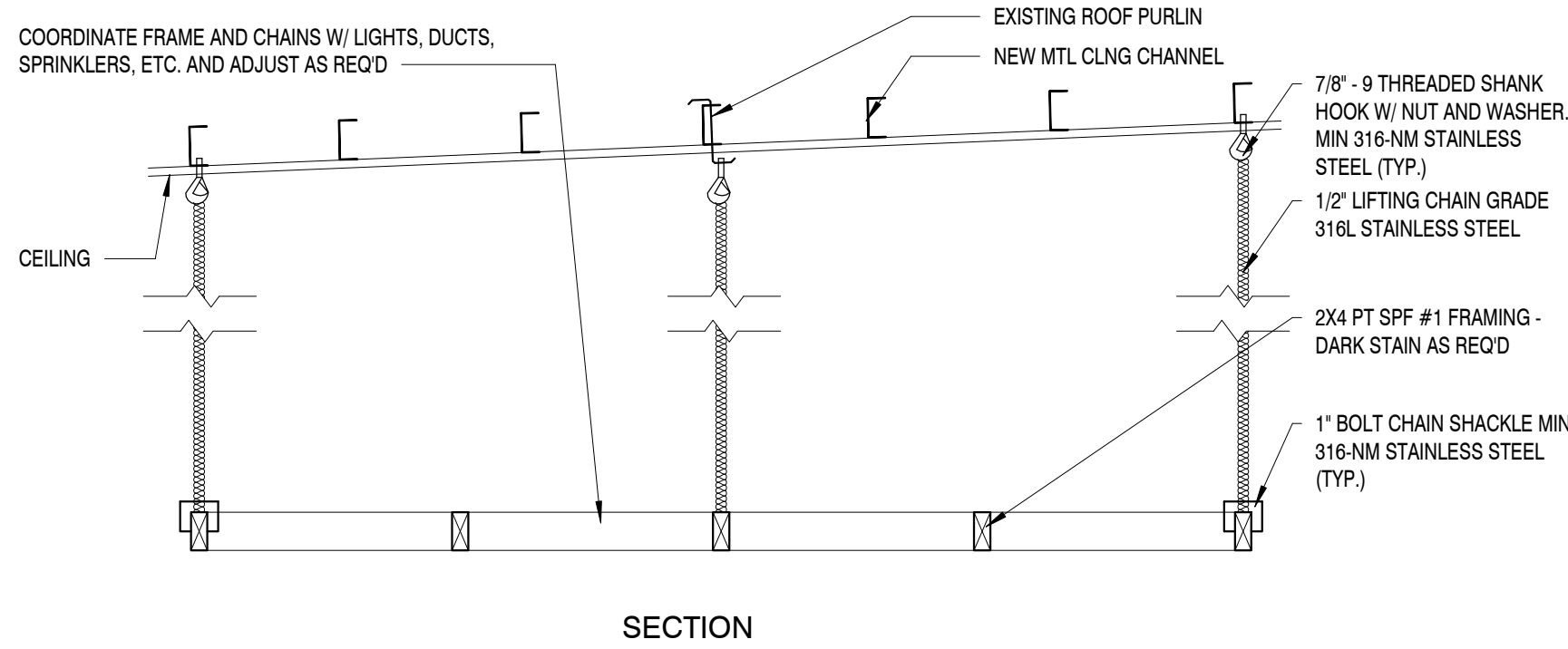
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PLATFORM DETAIL

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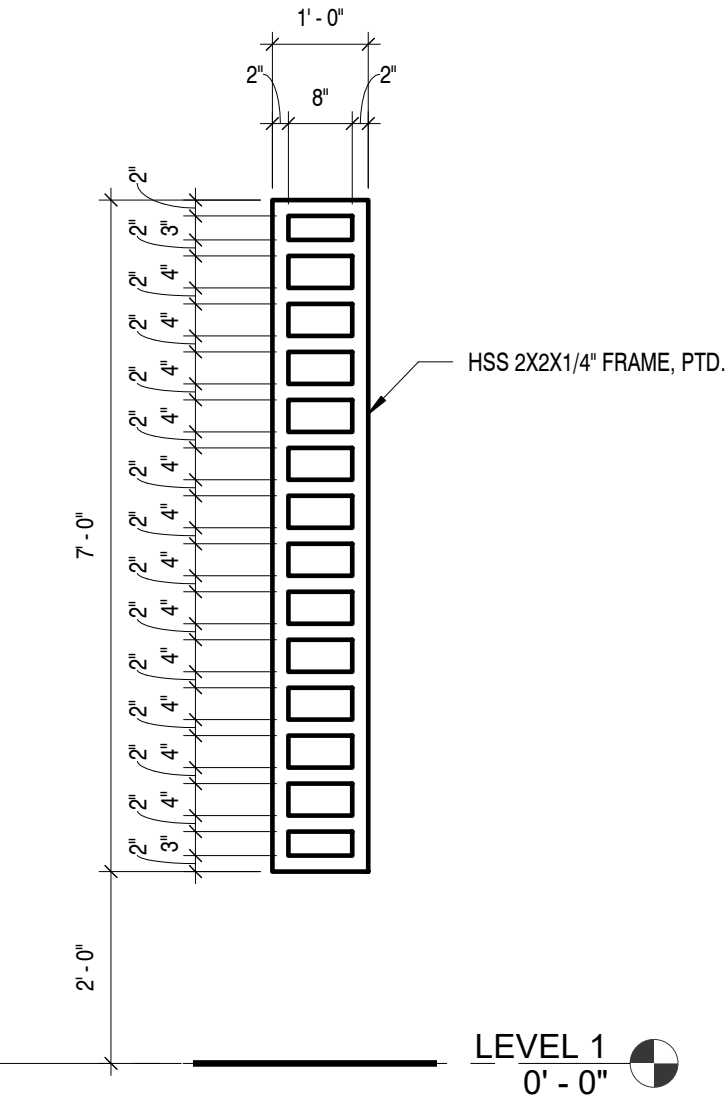
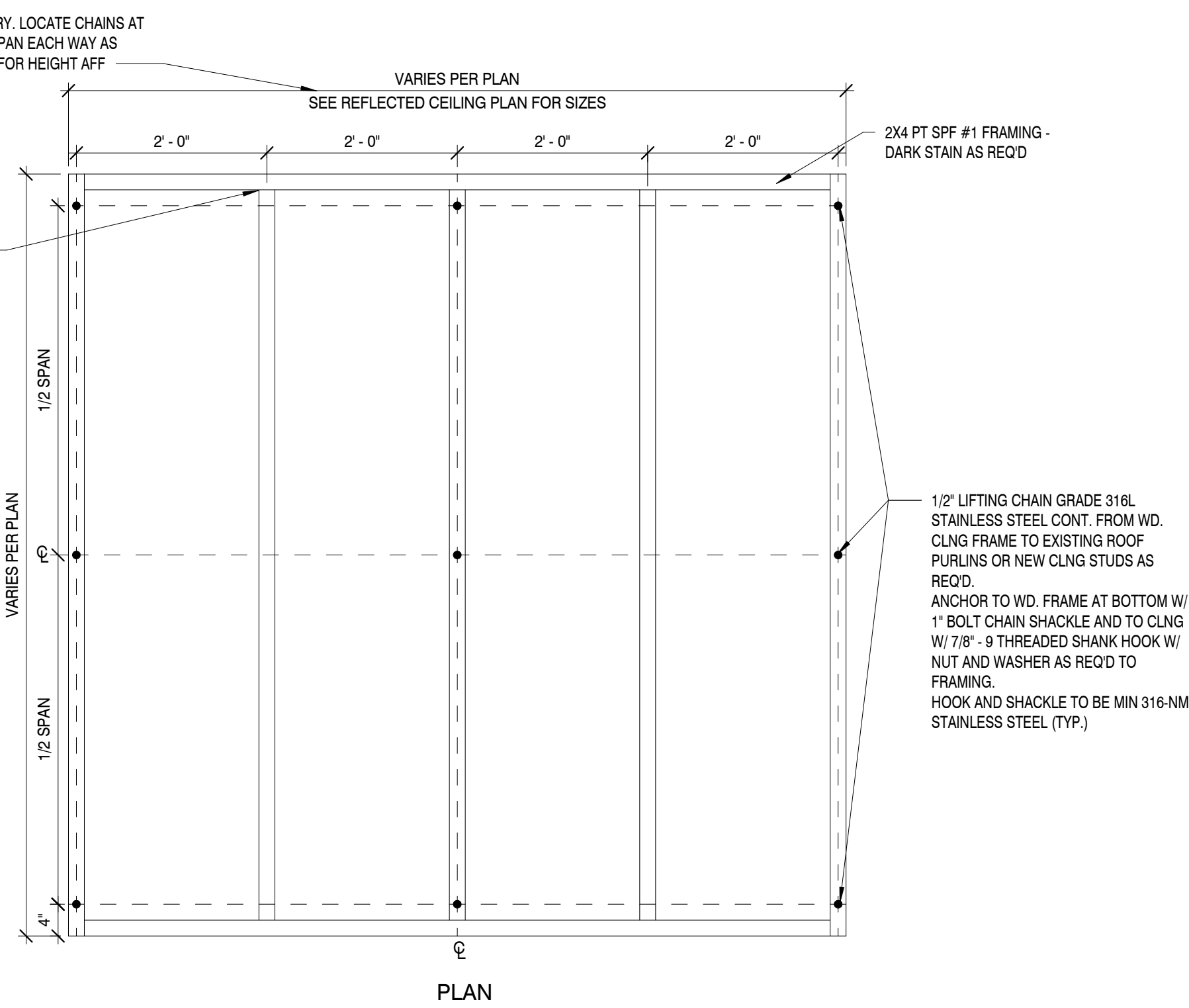
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INT. CEILING FRAME DETAIL

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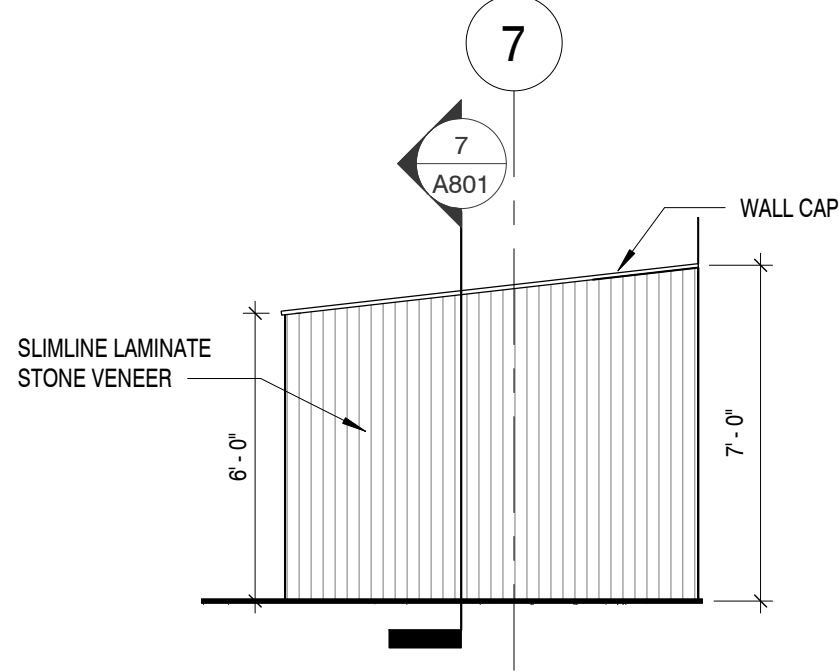
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TRELLIS DETAIL

SCALE : 1/2" = 1'-0"

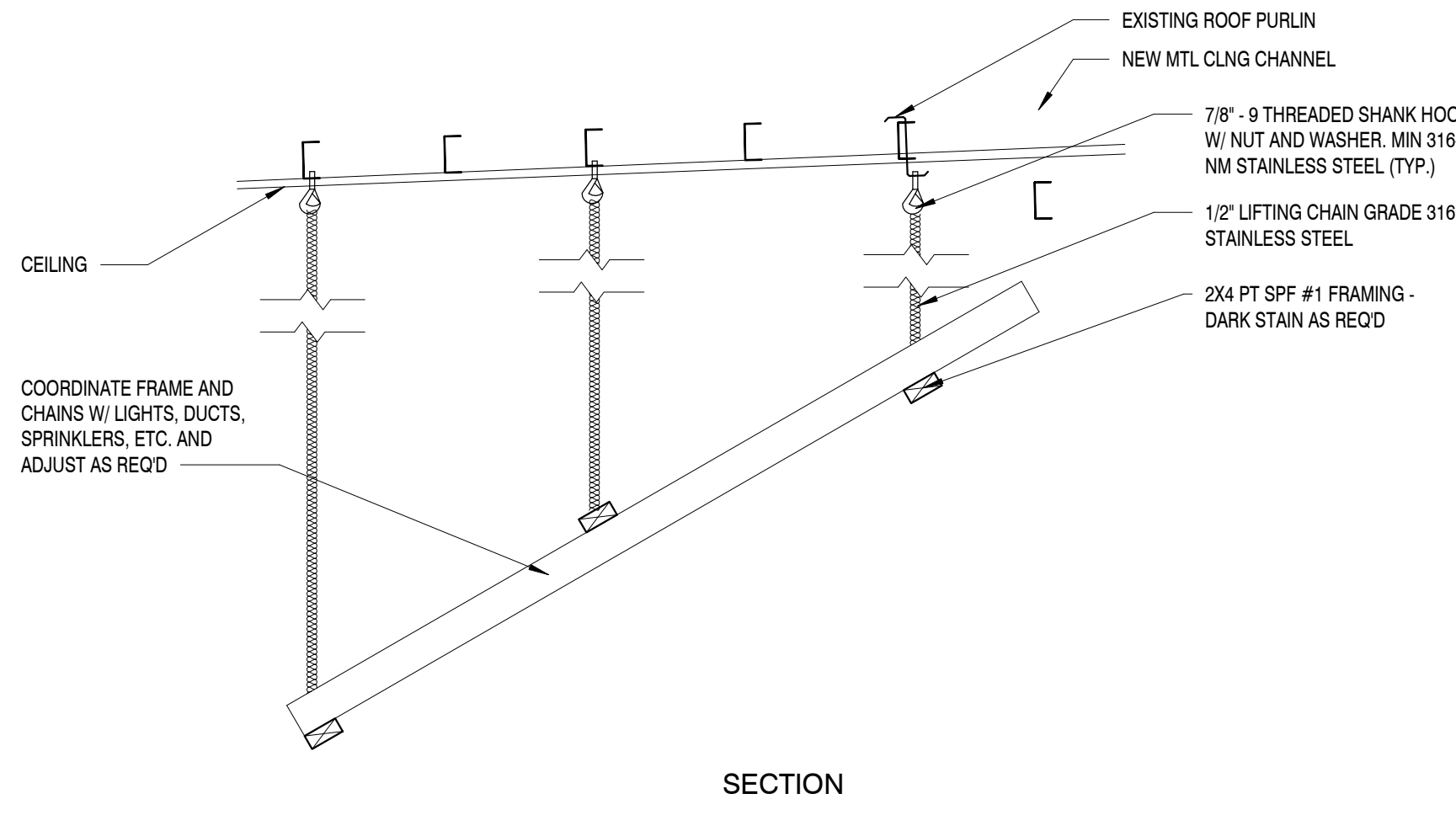
2



DIVIDER WALL ELEV.

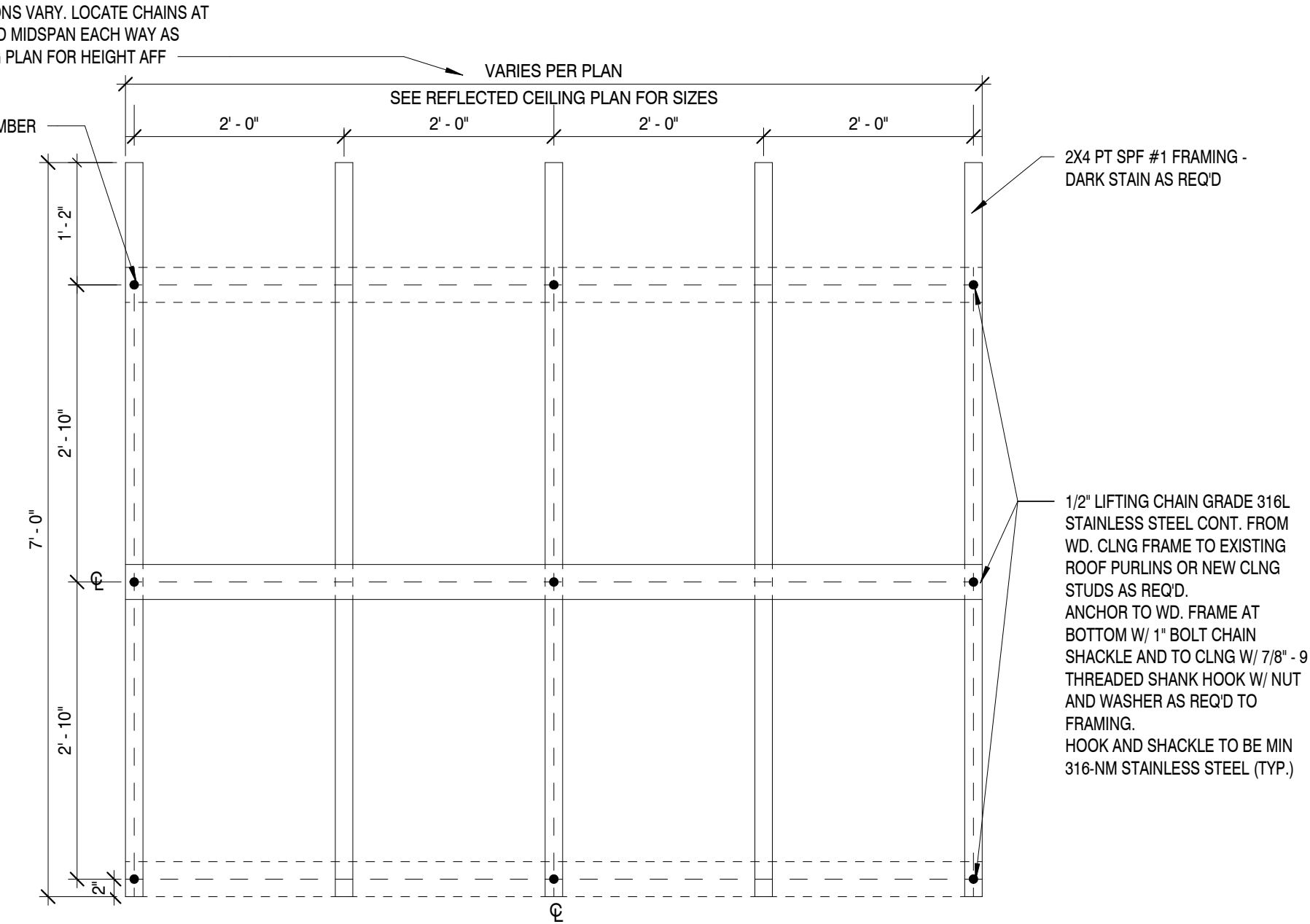
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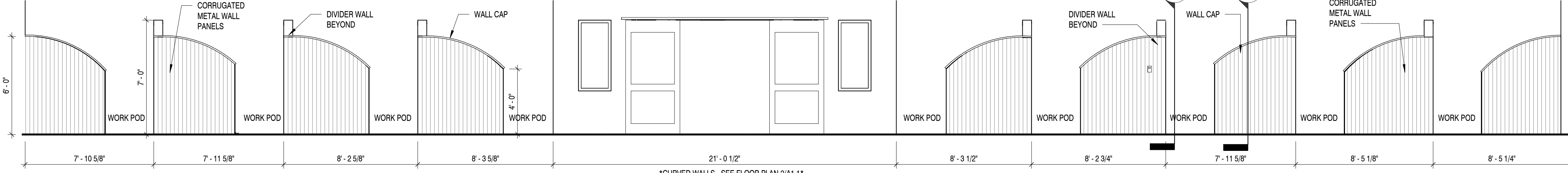


WOOD SLAT CEILING FRAME DETAIL

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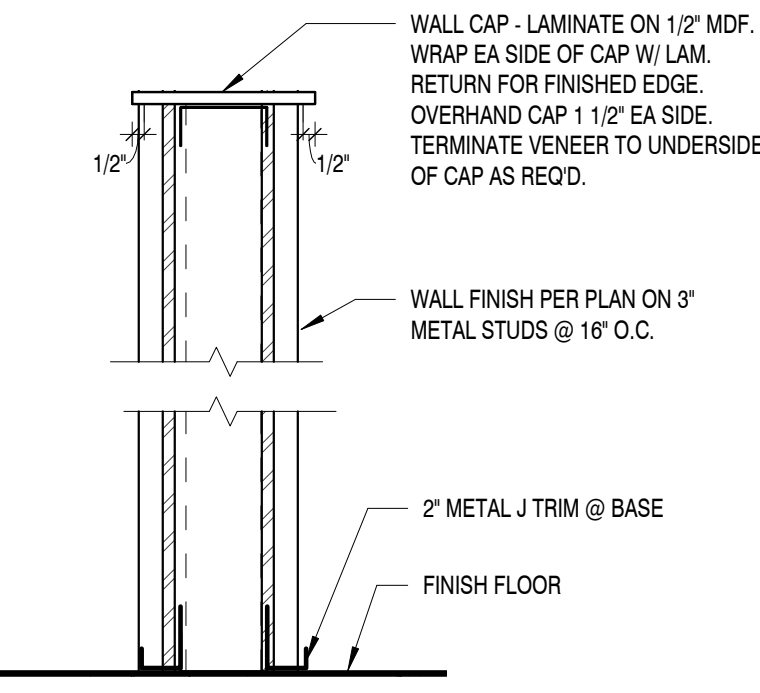
6



WORK POD ELEVATION

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

4



WALL CAP DETAIL

SCALE : 1 1/2" = 1'-0"

7

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CONSULTANT

SEAL

STATE OF ALABAMA

REGISTERED ARCHITECT

7404

09/05/2019

CLAYTON ADDISON

HARLOW

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CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

☐ FOR REVIEW ONLY

☐ FOR PERMITTING ONLY

☐ SCHEMATIC DESIGN

☐ DESIGN DEVELOPMENT

☐ CONSTRUCTION BIDDING

☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: MES

DRAWN BY: ARV/GD

REVIEWED BY: EEH

SHEET TITLE:

MISC. DETAILS AND NOTES

SHEET NO.:

A801

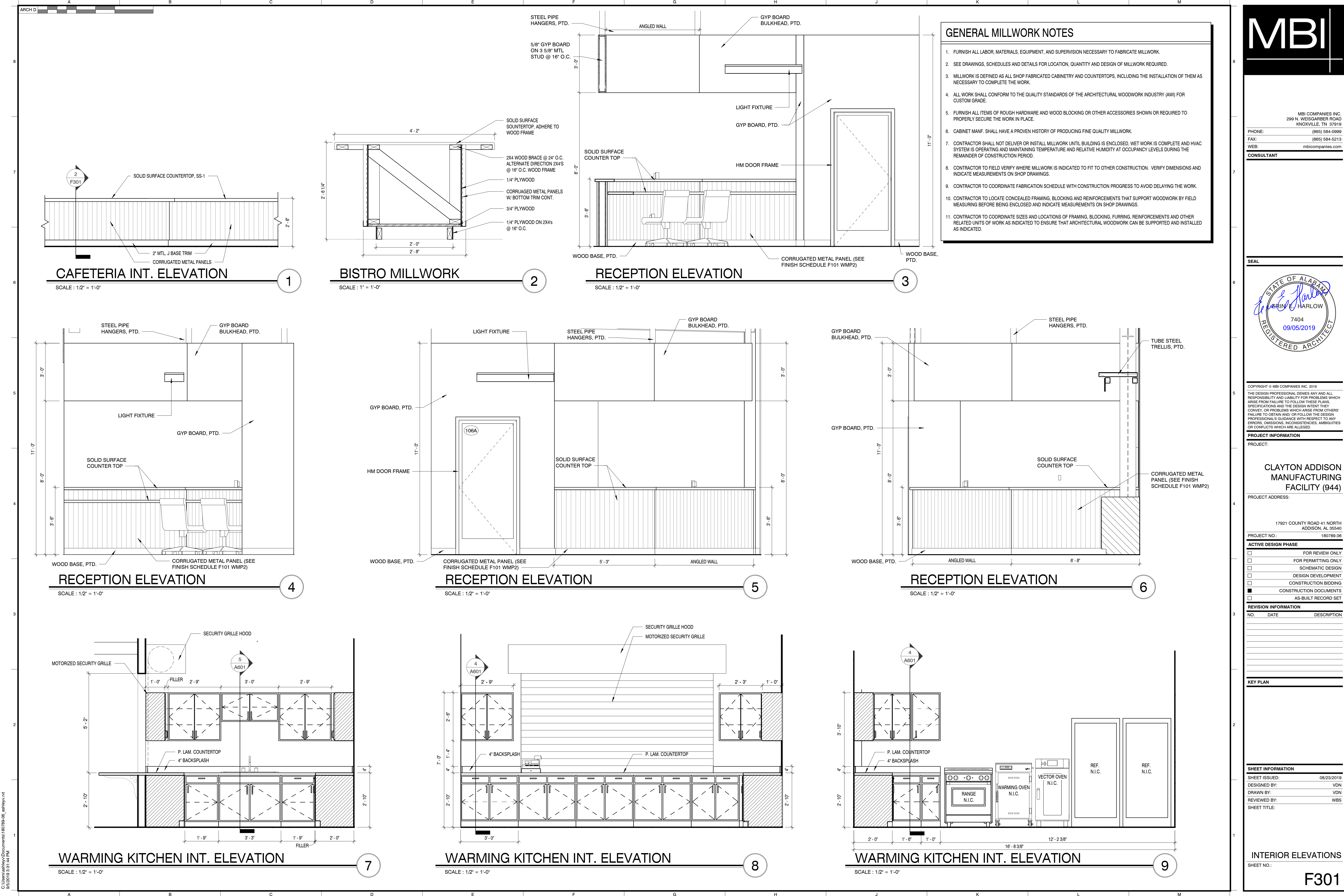












- GENERAL MILLWORK NOTES**
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ADDISON, AL 35540

PROJECT NO.: 180789.06

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- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: VDN  
DRAWN BY: VDN  
REVIEWED BY: WBS  
SHEET TITLE:

INTERIOR ELEVATIONS

SHEET NO.:

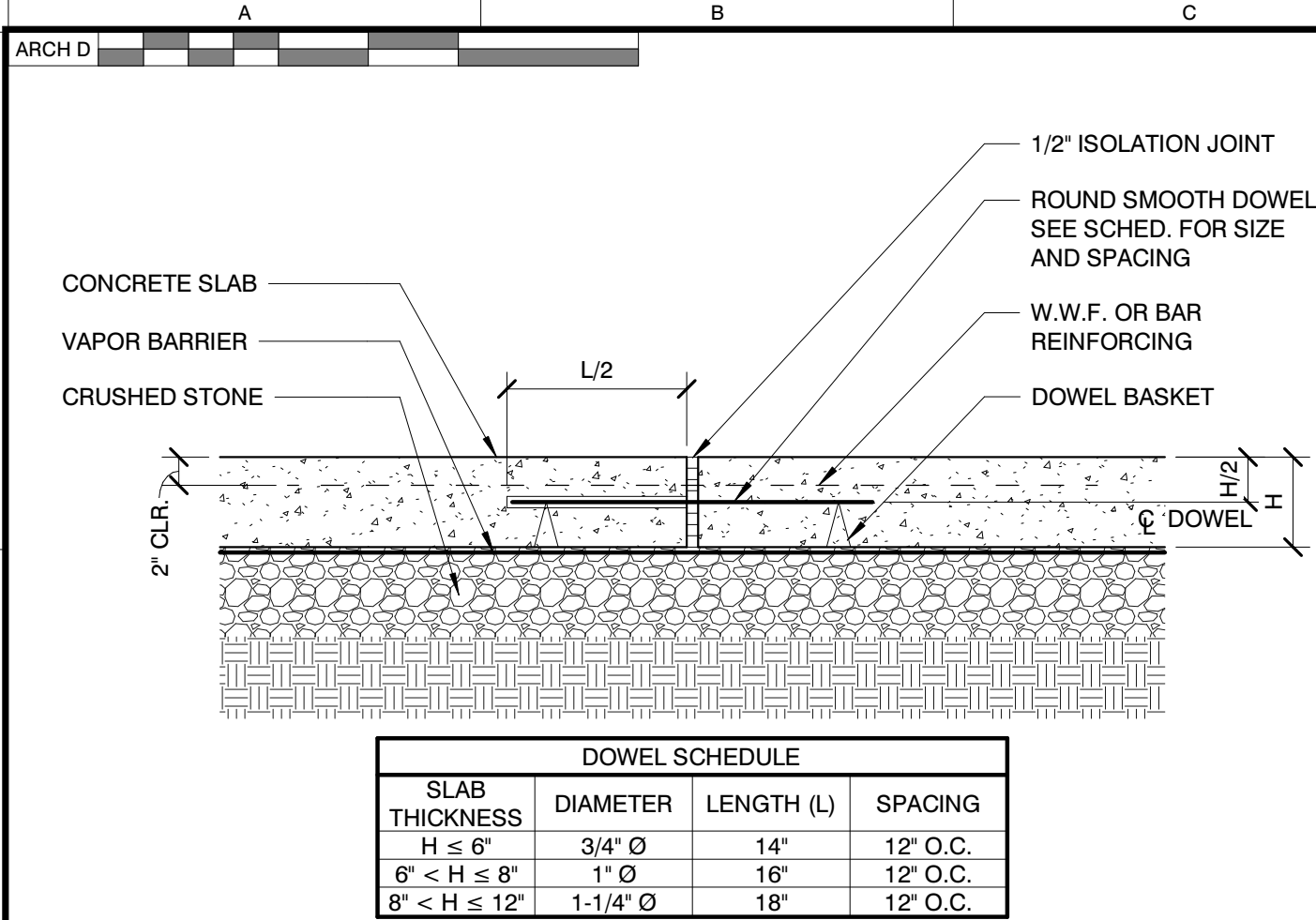
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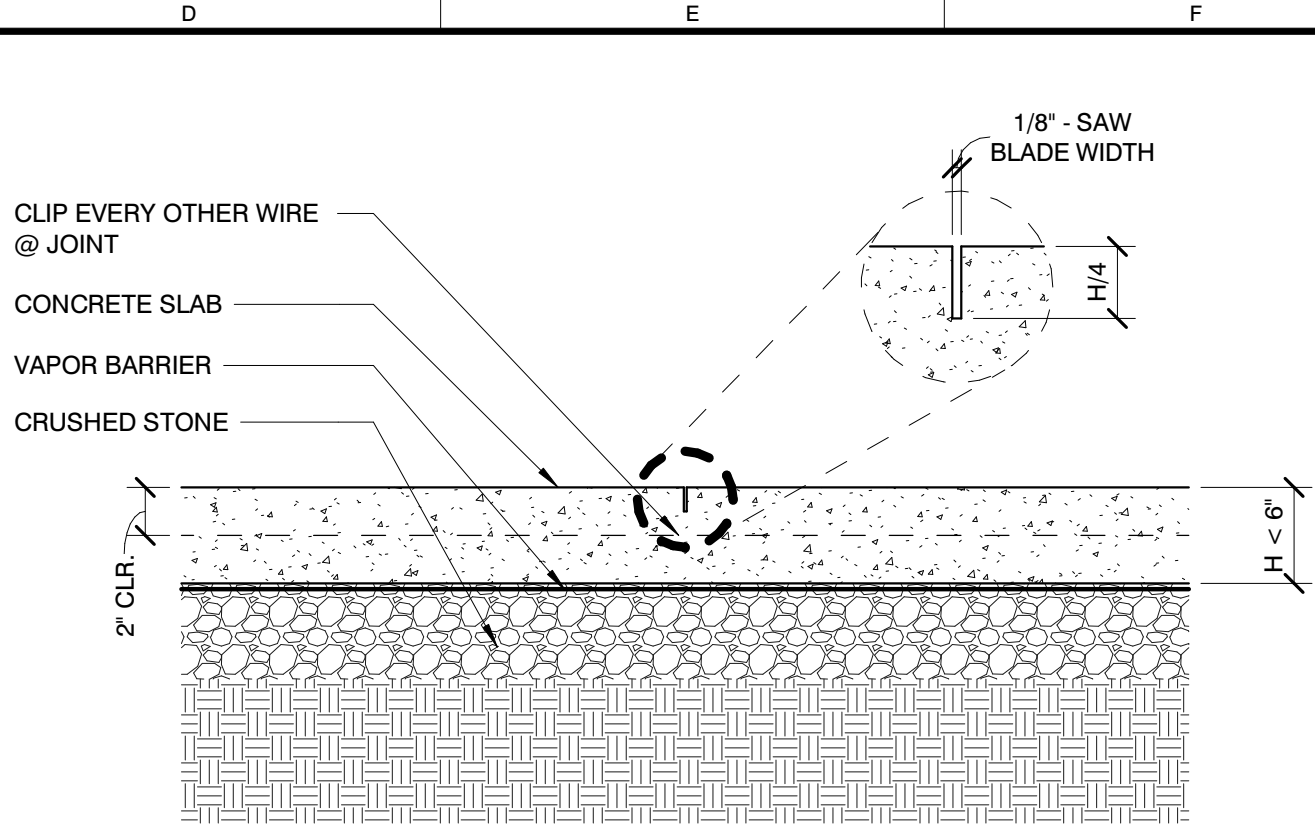
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## CONSTRUCTION JOINT DETAIL

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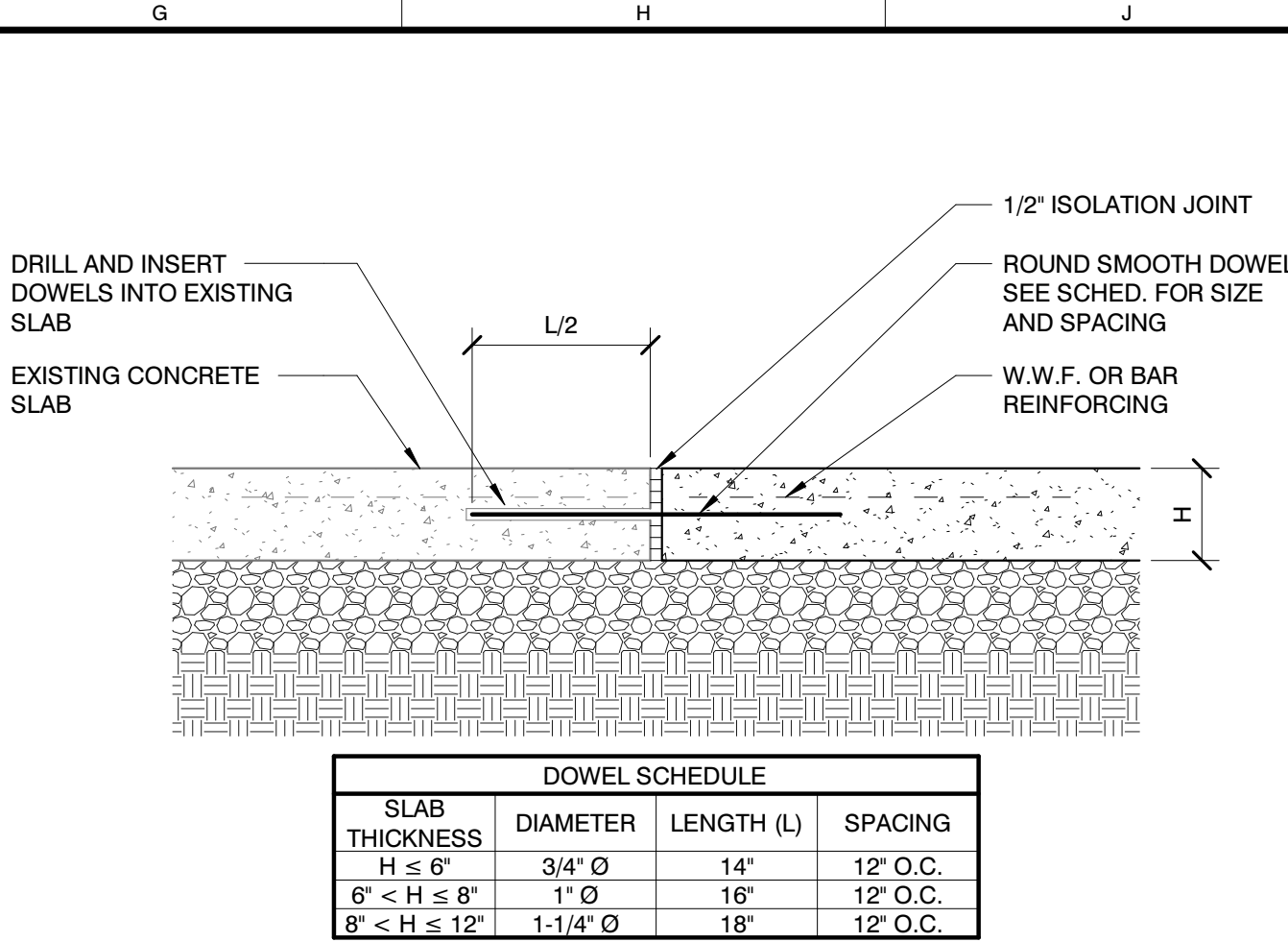
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## CONTRACTION JOINT DETAIL

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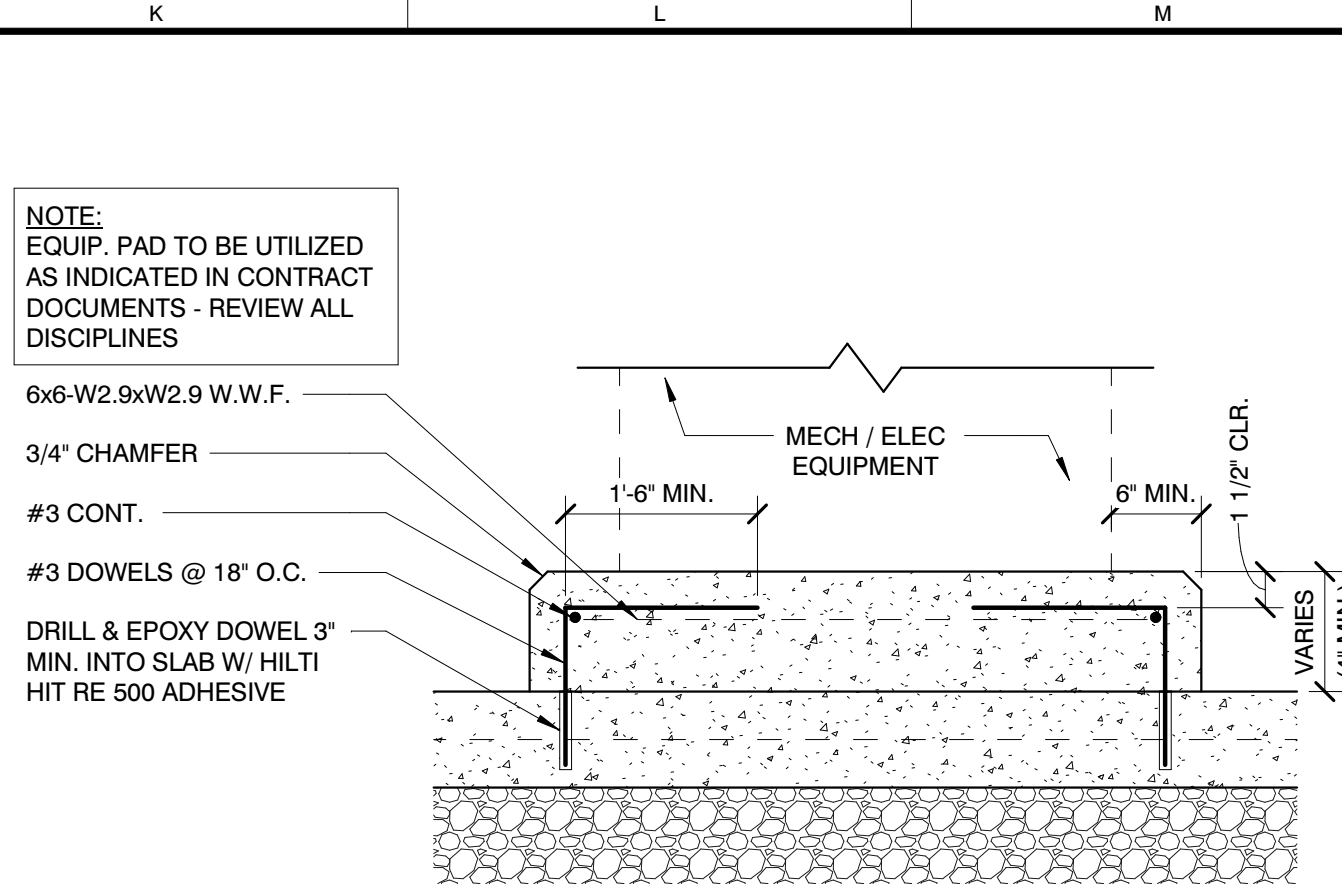
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## SLAB TO EXISTING SLAB DETAIL

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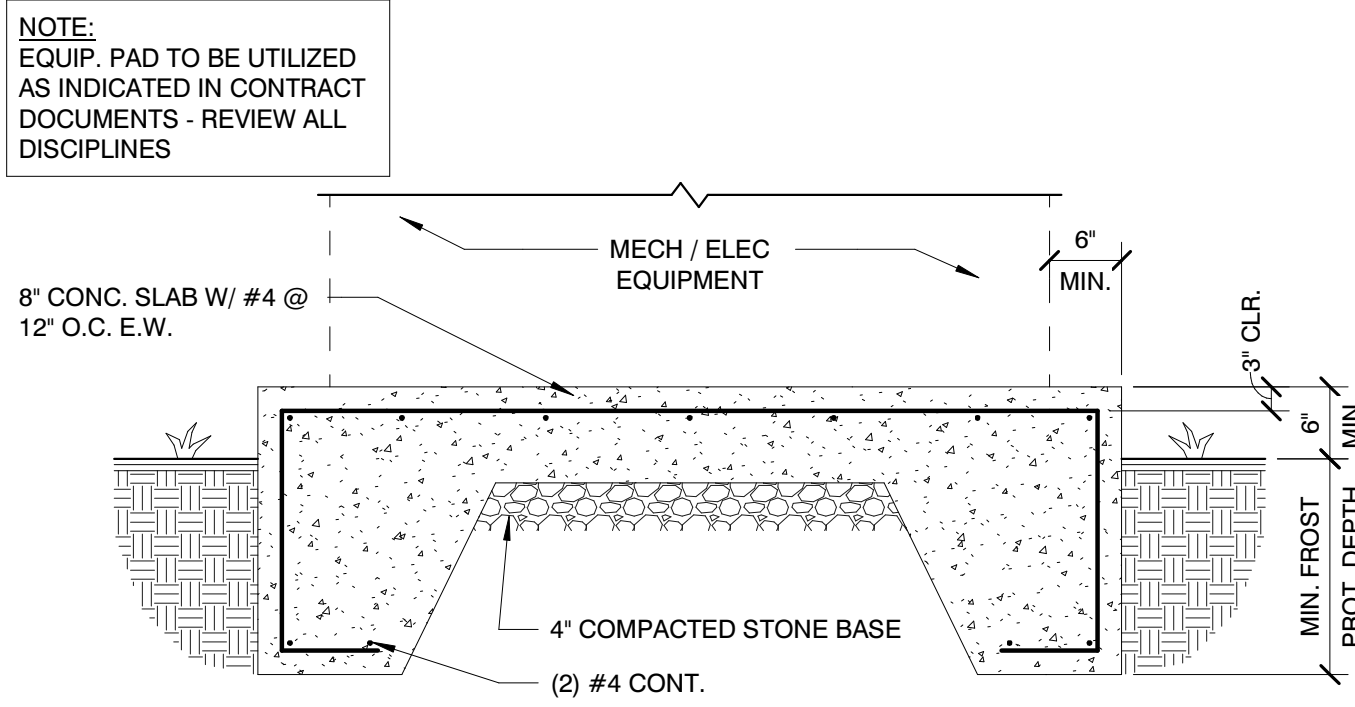
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## INTERIOR EQUIP. PAD DETAIL

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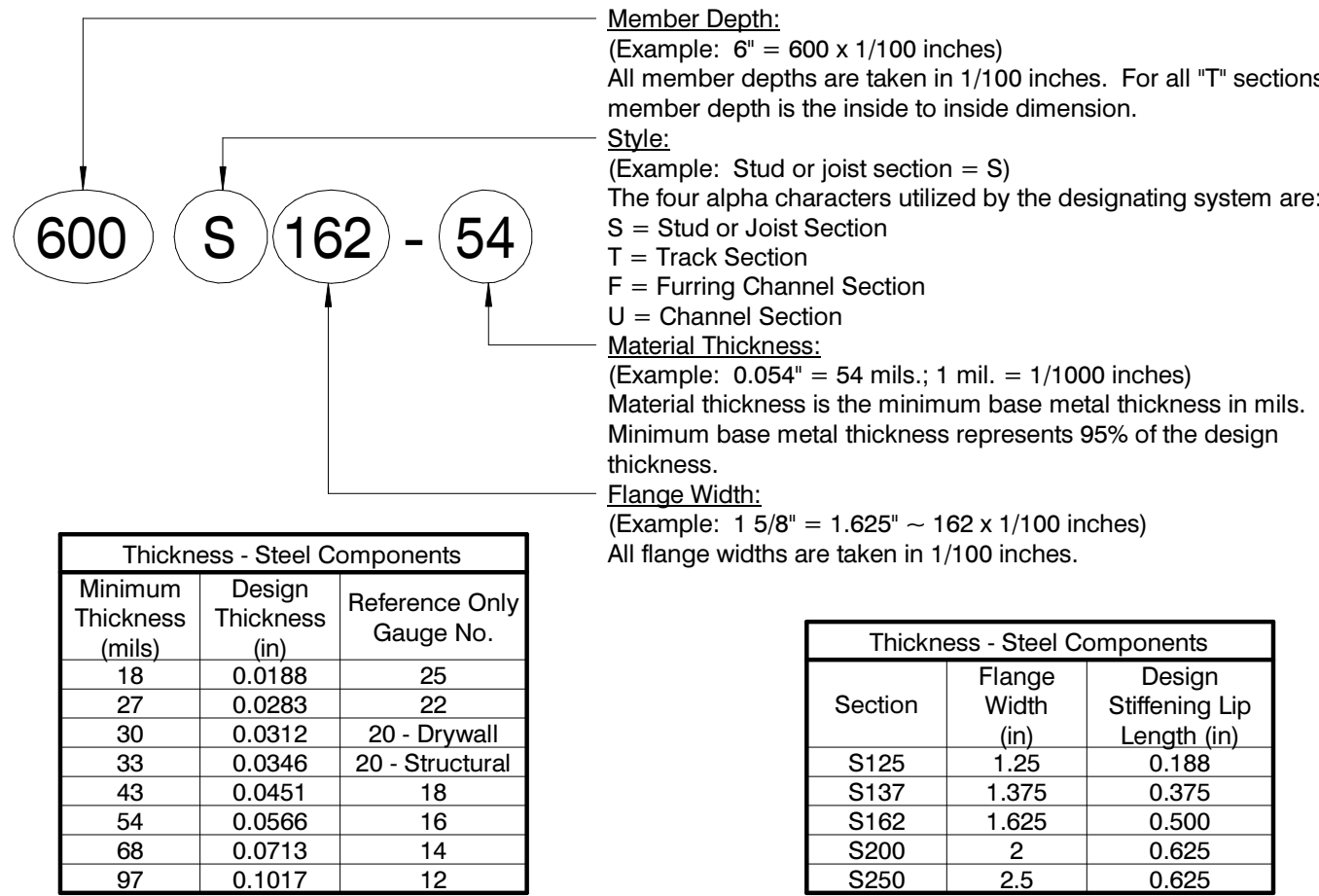
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## EXTERIOR EQUIP. PAD DETAIL

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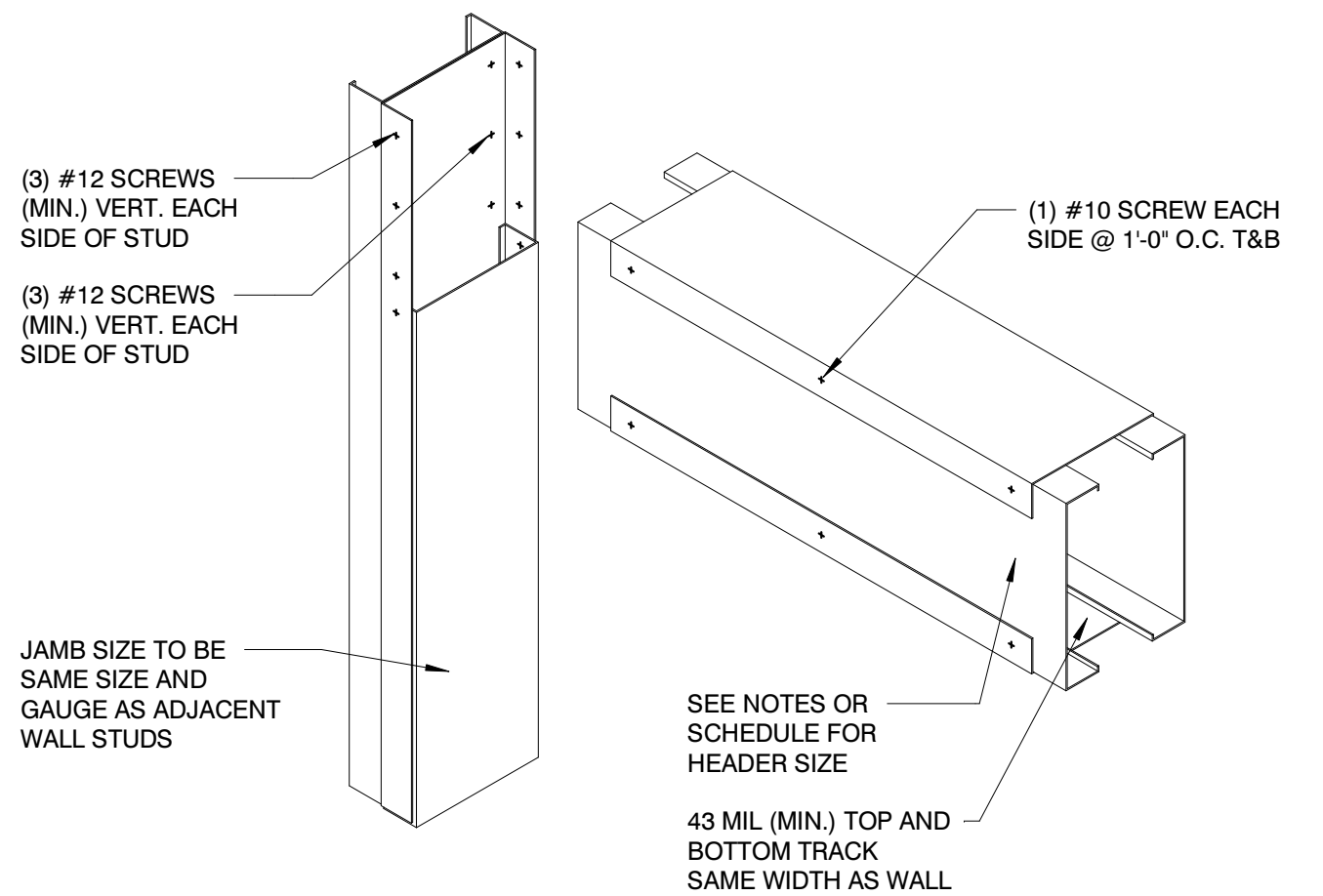
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## COLD-FORMED DESIGNATION

SCALE : N.T.S.

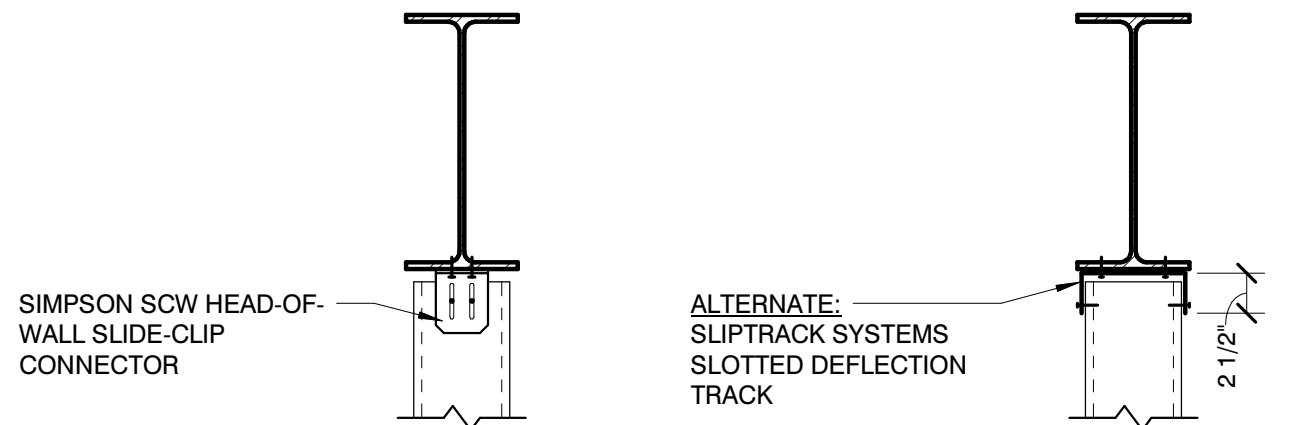
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## HEADER DETAIL

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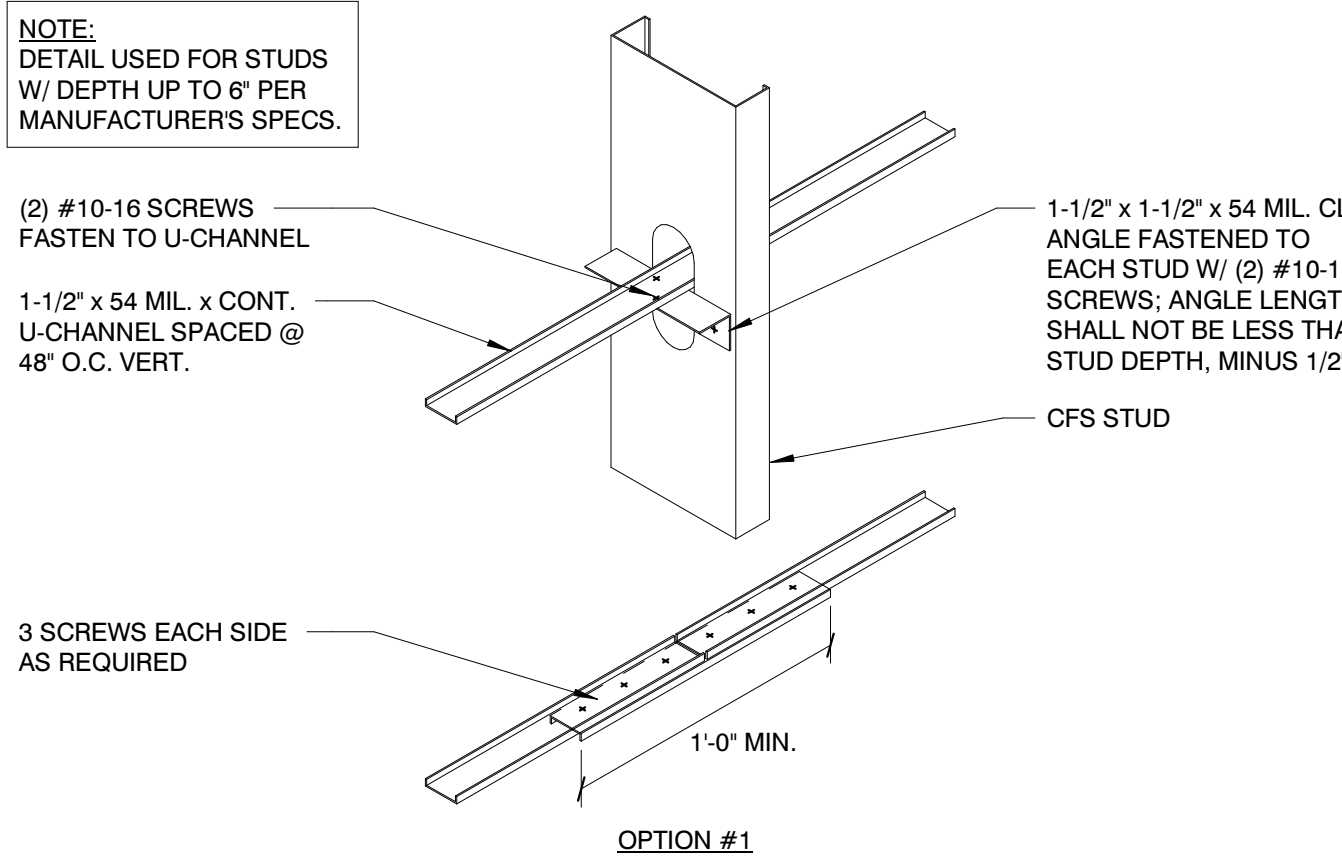
8



## SLIP TRACK DETAIL

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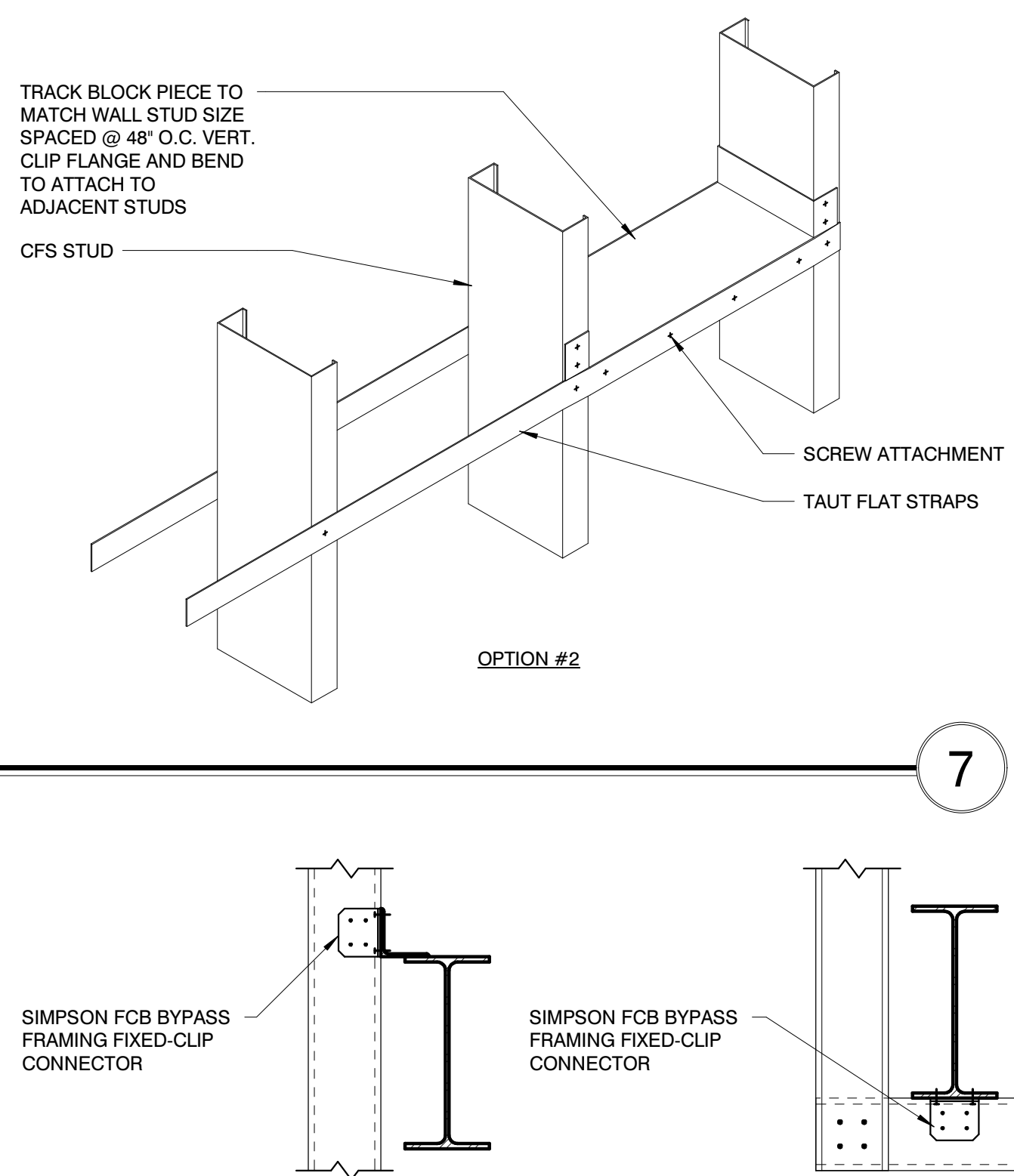
9



## HORIZONTAL BRACING DETAIL

SCALE : 1 1/2" = 1'-0"

7



## FIXED-CLIP CONNECTOR DETAIL

SCALE : 1" = 1'-0"

11

## SLIDE-CLIP CONNECTOR DETAIL

SCALE : 1" = 1'-0"

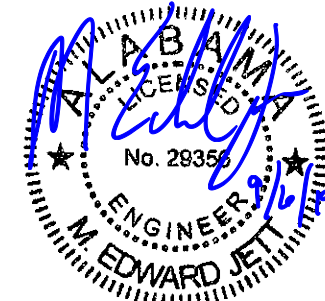
10

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PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
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PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY  
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☐ SCHEMATIC DESIGN  
☐ DESIGN DEVELOPMENT  
☐ CONSTRUCTION BIDDING  
☒ CONSTRUCTION DOCUMENTS  
☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: ZJB  
DRAWN BY: JCP  
REVIEWED BY: RMG  
SHEET TITLE:

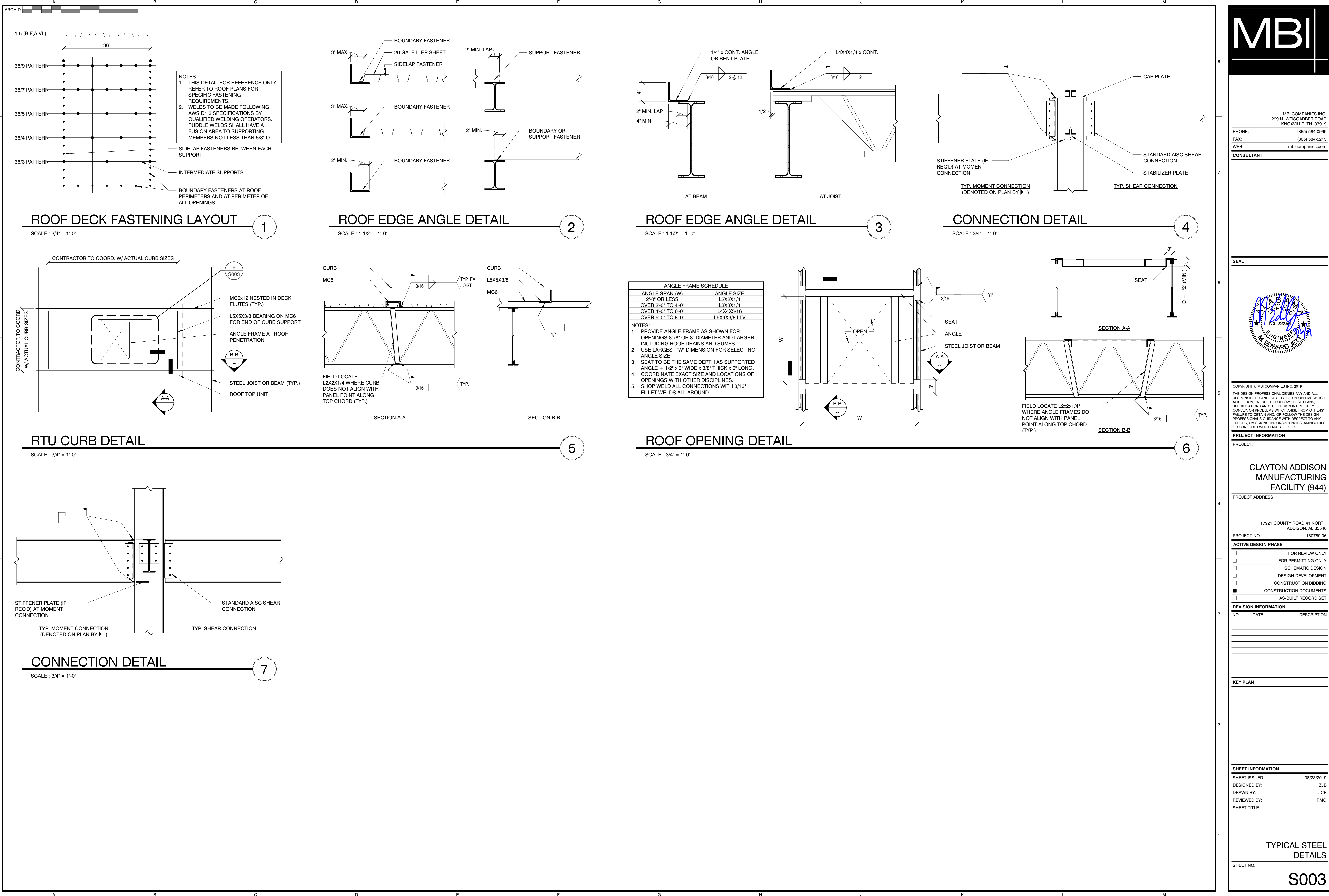
TYPICAL FOUNDATION,  
SLAB ON GRADE AND  
CFS DETAILS

SHEET NO.:

## S002



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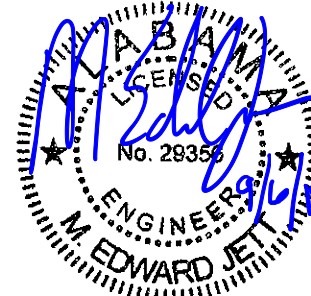


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☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: ZJB  
DRAWN BY: JCP  
REVIEWED BY: RMG  
SHEET TITLE:

TYPICAL STEEL  
DETAILS

SHEET NO.:

S003



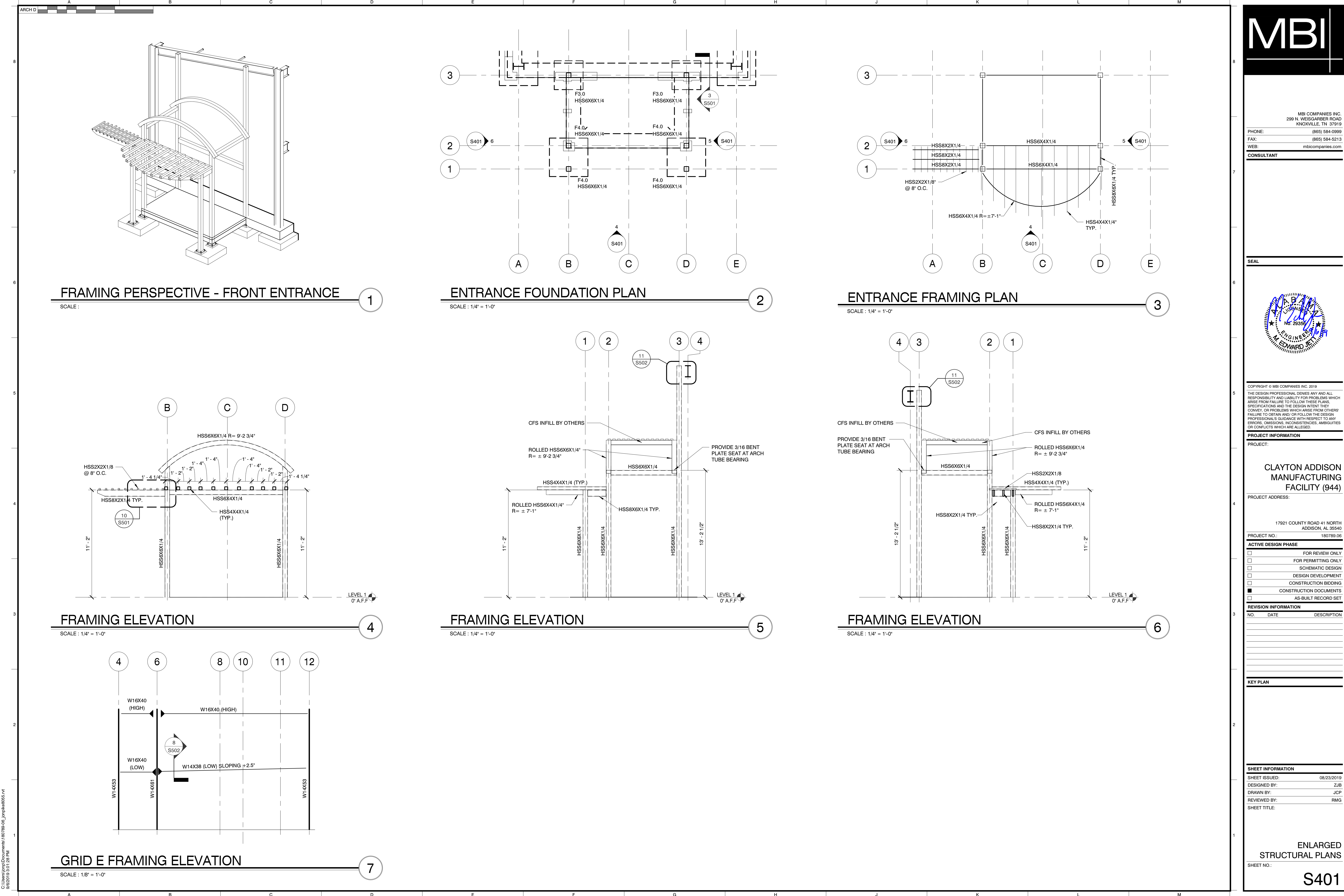






S301





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REVISION INFORMATION

NO.	DATE	DESCRIPTION

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SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: ZJB

DRAWN BY: JCP

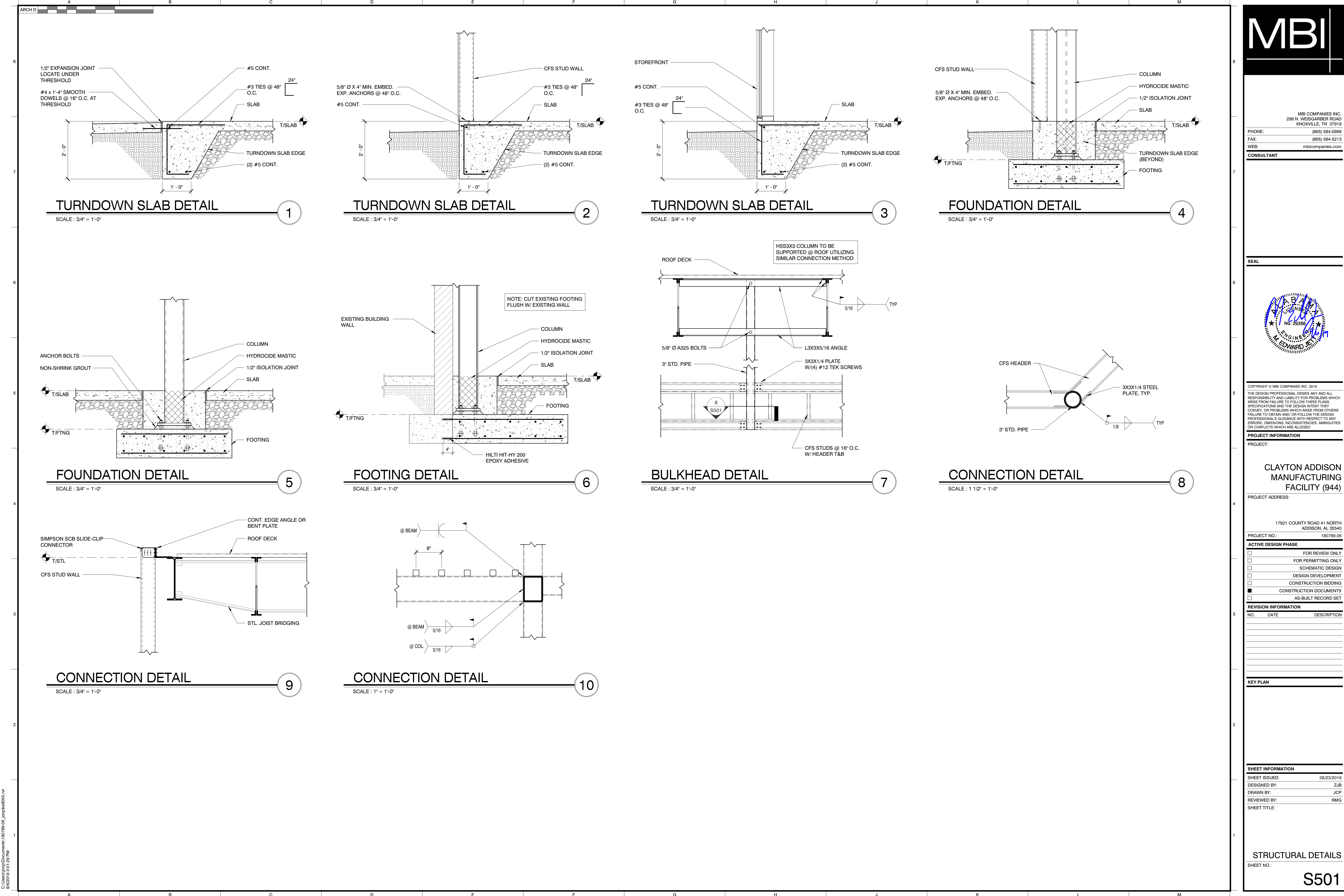
REVIEWED BY: RMG

SHEET TITLE:

ENLARGED  
STRUCTURAL PLANS

SHEET NO.: S401





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299 N. WEISGARBER ROAD  
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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

ACTIVE DESIGN PHASE

☐ FOR REVIEW ONLY  
☐ FOR PERMITTING ONLY  
☐ SCHEMATIC DESIGN  
☐ DESIGN DEVELOPMENT  
☐ CONSTRUCTION BIDDING  
☒ CONSTRUCTION DOCUMENTS  
☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: ZJB  
DRAWN BY: JCP  
REVIEWED BY: RMG  
SHEET TITLE:

STRUCTURAL DETAILS

SHEET NO.: S501







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FIRE PROTECTION SPECIFICATIONS

SECTION 15300 - FIRE PROTECTION  
PART I GENERAL  
1.01 DESCRIPTION OF WORK:  
A. EXTENT OF FIRE PROTECTION WORK IS INDICATED ON DRAWINGS AND SCHEDULES, AND BY REQUIREMENTS OF THIS SECTION.  
B. THE SYSTEM SHALL BE WET PIPE SYSTEM  
1.02 QUALITY ASSURANCE:  
A. CODES AND STANDARDS:  
1. NFPA COMPLIANCE: INSTALL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 "STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS"; NFPA 14, "STANDARDS FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS" AND NFPA 24 "STANDARD FOR OUTSIDE PROTECTION".  
2. UL COMPLIANCE: PROVIDE FIRE PROTECTION PRODUCTS IN ACCORDANCE WITH UL STANDARDS; PROVIDE UL LABEL ON EACH PRODUCT.  
3. FIRE DEPARTMENT/MARSHAL COMPLIANCE: INSTALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH LOCAL REGULATIONS OF FIRE DEPARTMENT OR FIRE MARSHAL.  
4. QUALIFICATIONS: HYDRAULIC CALCULATIONS AND PREPARATION OF SHOP DRAWINGS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A RESPONSIBLE MANAGING EMPLOYEE WHO HOLDS A NCET LEVEL III CERTIFICATION. INSTALLATION SHALL BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR.  
1.03 SUBMITTALS:  
A. PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR FIRE PROTECTION MATERIALS AND PRODUCTS WITH A TABLE OF CONTENTS. IDENTIFY MATERIAL, SIZE, AND MODEL NUMBER OF EACH PRODUCT.  
B. SHOP DRAWINGS: SUBMIT SCALED LAYOUT DRAWINGS FOR FIRE PROTECTION PIPE AND FITTINGS INCLUDING, BUT NOT LIMITED TO, PIPE AND TUBE SIZES, LOCATIONS, ELEVATIONS, AND SLOPES OF HORIZONTAL RUNS, WALL AND FLOOR PENETRATIONS, AND CONNECTIONS; INDICATE INTERFACE AND SPATIAL RELATIONSHIPS BETWEEN PIPING AND APPROXIMATE EQUIPMENT.  
C. APPROVAL DRAWINGS: PREPARE APPROVAL DRAWINGS OF FIRE PROTECTION SYSTEMS INDICATING PIPE SIZES, PIPE LOCATIONS, FITTINGS, SHUTOFFS, EQUIPMENT, ETC. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT ONE APPROVED COPY, BEARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION.  
D. APPROVAL CALCULATIONS: PREPARE HYDRAULIC CALCULATIONS OF FIRE PROTECTION SYSTEM USING A FIRE HYDRANT FLOW TEST THAT IS NO MORE THAN 6 MONTHS OLD. SUBMIT TO AGENCY HAVING JURISDICTION FOR APPROVAL. SUBMIT TO ARCHITECT, ONE APPROVED COPY, BEARING STAMP AND/OR SIGNATURE OF AGENCY HAVING JURISDICTION, BEFORE PROCEEDING WITH INSTALLATION.  
E. RECORD DRAWINGS: AT PROJECT CLOSEOUT, SUBMIT RECORD DRAWINGS OF INSTALLED FIRE PROTECTION PIPING AND PRODUCTS.  
PART II PRODUCTS  
2.01 MATERIALS AND PRODUCTS:  
A. GENERAL: PROVIDE PIPING MATERIALS AND FACTORY-FABRICATED PIPING PRODUCTS OF SIZES, TYPES, PRESSURE RATINGS, TEMPERATURE RATINGS, AND CAPACITIES AS INDICATED. WHERE NOT INDICATED, PROVIDE PROPER SELECTION AS DETERMINED BY INSTALLER TO COMPLY WITH INSTALLATION REQUIREMENTS. PROVIDE SIZES AND TYPES MATCHING PIPING AND EQUIPMENT CONNECTIONS; PROVIDE FITTINGS OF MATERIALS WHICH MATCH PIPE MATERIALS USED IN FIRE PROTECTION SYSTEM.  
2.02 BASIC IDENTIFICATION:  
A. GENERAL: PROVIDE IDENTIFICATION AS FOLLOWS:  
1. FIRE PROTECTION PIPING: PLASTIC PIPE MARKERS  
2. FIRE PROTECTION VALVES: PLASTIC VALVE TAGS.  
2.03 BASIC PIPES AND PIPE FITTINGS:  
A. GENERAL: PROVIDE PIPES AND PIPE FITTINGS AS FOLLOWS:  
B. BLACK STEEL PIPE: SCHEDULE 40 FOR LESS THAN 8" BLACK STEEL PIPE; SCHEDULE 10 FOR 8" AND SMALLER; MECHANICAL GROOVED PIPE COUPLINGS AND FITTINGS; ROLL-GROOVE AND MECHANICAL LOCKING TYPE.  
C. DUCTILE IRON PRESSURE PIPE: AWWA C-106 WITH FITTINGS COMPLYING WITH AWWA C-110 AND RUBBER GASKETS COMPLYING WITH AWWA C-111.  
D. BRAIDED FLEXIBLE, SPRINKLER HOSE FITTINGS: BRAIDED, FLEXIBLE HOSE FOR CONNECTION TO SPRINKLER WITH BRACKET FOR CONNECTION TO CEILING GRID.  
1. APPROVED MANUFACTURERS: FLEXHEAD AND VICTAULIC[AH2, AH2CC OR VS1].  
E. BRANCH OUTLET FITTINGS:  
1. BODY MATERIAL: DUCTILE-IRON HOUSING WITH EPDM SEALS AND BOLTS AND NUTS.  
2. TYPE: MECHANICAL-T AND -CROSS FITTINGS.  
3. BRANCH OUTLETS: GROOVED, PLAIN-END PIPE, OR THREADED.  
4. APPROVED MANUFACTURERS: ANVIL, TYCO, AND VICTAULIC.  
2.04 BASIC PIPING SPECIALTIES:  
A. GENERAL: PROVIDE PIPING SPECIALTIE:  
1. PIPE ESCUTCHEONS  
2. DIELECTRIC UNIONS  
3. DRIP PANS  
4. PIPE SLEEVES  
5. SLEEVE SEALS  
6. FIRE BARRIER PENETRATION SEALS  
2.05 BASIC SUPPORTS AND ANCHORS:  
A. GENERAL: PROVIDE SUPPORTS AND ANCHORS AS FOLLOWS:  
1. ADJUSTABLE STEEL CLEVIS HANGERS, ADJUSTABLE STEEL BAND HANGERS, OR ADJUSTABLE BAND HANGERS, FOR HORIZONTAL PIPING HANGERS AND SUPPORTS.  
2. TWO-BOLT RISER CLAMPS FOR VERTICAL PIPING SUPPORTS.  
3. STEEL TURNBUCKLES AND MALLEABLE IRON SOCKETS FOR HANGER-ROD ATTACHMENTS.  
4. CONCRETE INSERTS, TOP-BEAM C-CLAMPS, SIDE BEAM OR CHANNEL CLAMPS OR CENTER BEAM CLAMPS FOR BUILDING ATTACHMENTS.  
B. ANCHORS:  
1. GENERAL: PROVIDE ANCHORAGES FOR TEES, PLUGS, CAPS, BENDS, AND HYDRANTS IN ACCORDANCE WITH NFPA 24.  
2. CLAMPS, STRAPS AND WASHERS: STEEL, ANSI/ASTM A-506  
3. RODS: STEEL, ANSI/ASTM A-575  
4. OD COUPLINGS: MALLEABLE IRON, ANSI/ASTM A-197  
5. BOLTS: STEEL, ANSI/ASTM A-307  
6. CAST-IRON WASHERS: ANSI/ASTM A-126, CLASS A  
7. THRUST BLOCKS: 2500 PSI CONCRETE  
2.06 BASIC VALVES:  
A. GENERAL: PROVIDE VALVES AS FOLLOWS:  
B. INTERIOR VALVES:  
1. SECTIONAL: GATE VALVES OR BUTTERFLY VALVES; UL LISTED.  
2. CHECK: SWING CHECK VALVES; UL LISTED.  
2.07 SPECIAL VALVES:  
A. GENERAL: PROVIDE VALVES, UL LISTED, IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE SIZES AND TYPES WHICH MATE AND MATCH PIPING AND EQUIPMENT CONNECTIONS.  
2.08 HYDRANTS:  
A. GENERAL: PROVIDE CAST-IRON SIDEWALK FIRE HYDRANTS WITH THREADED MALE NOZZLE CONFORMING TO "AMERICAN NATIONAL STANDARD FIRE HOSE CONNECTION SCREW THREADS" UNLESS OTHER HOSE CONNECTION REQUIRED BY LOCAL FIRE AUTHORITIES.  
B. PROVIDE DRY-BARREL FIRE HYDRANTS (BASE VALVE TYPE) COMPLYING WITH AWWA C-502 AND AS FOLLOWS:  
1. WORKING PRESSURE, L50 PSI UNLESS OTHERWISE INDICATED.  
2. VALVE OPENING DIRECTION, CLOCKWISE, INDICATED BY ARROW AND THE WORD "OPEN" CAST ON DOME.  
3. NOZZLES, TWO 2-1/2" HOSE CONNECTIONS AND ONE 4-1/2" PUMPER CONNECTION WITH CAPS AND CHAINS. NOZZLE CAP NUTS TO MATCH OPERATING STEM NUTS. PROVIDE NATIONAL STANDARD HOSE THREADS ON 2-1/2". HOSE THREADS ON 4-1/2" PUMPER CONNECTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: O.D.-4.875", P.D.-4.777", ROOT DIAMETER 4.653", 6 THREADS PER INCH, GAUGE 20.

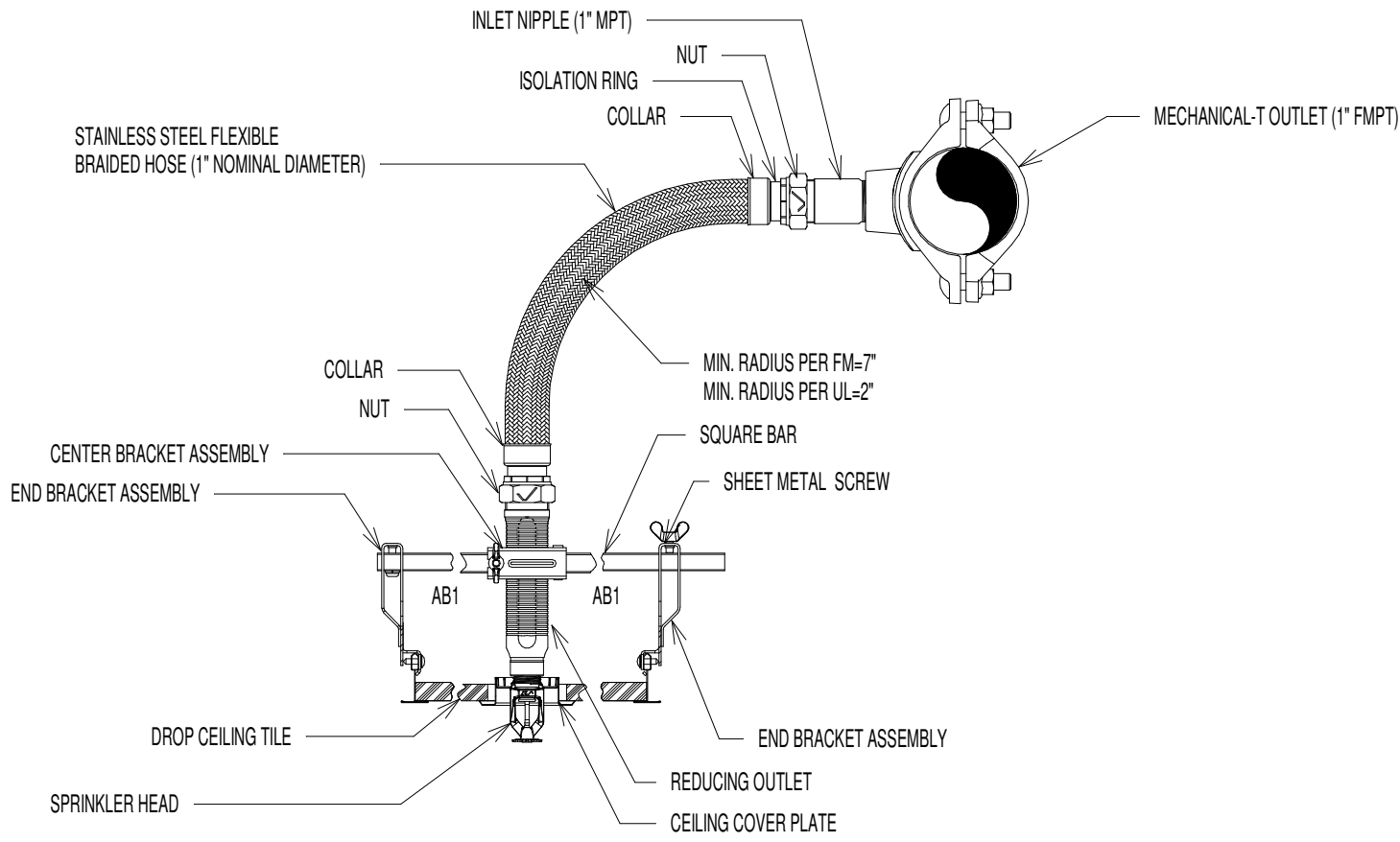
2.09 AUTOMATIC SPRINKLERS:  
A. GENERAL: PROVIDE AUTOMATIC SPRINKLERS OF TYPE INDICATED ON DRAWINGS, AND IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE FUSIBLE LINKS FOR 165°F (74°C) AND SPRINKLERS WITH NOMINAL 1/2" DISCHARGE ORIFICE UNLESS OTHERWISE INDICATED.  
1. UPRIGHT  
2. PENDENT  
3. FLUSH PENDENT  
4. CONCEALED PENDENT  
5. HORIZONTAL SIDEWALL  
6. FINISH: CHROME PLATE FOR OCCUPIED AREAS, CAST BRASS FOR UNOCCUPIED AREAS, WAX COATED WHERE EXPOSED TO ACIDS, CHEMICALS, OR OTHER CORROSIVE FLUIDS.  
B. APPROVED SPRINKLER HEAD MANUFACTURERS: RELIABLE, VICTAULIC, VIKING, TYCO  
C. SPRINKLER CABINET AND WRENCH: FURNISH STEEL, BAKED RED ENAMELED, SPRINKLER BOX WITH CAPACITY TO STORE 12 SPRINKLERS AND WRENCH SIZED TO SPRINKLERS.  
D. IN AREAS SUBJECT TO PHYSICAL ABUSE SUCH AS GYMNASIUMS AND MECHANICAL ROOMS, PROVIDE STEEL WIRE GUARDS OVER SPRINKLERS.  
PART III EXECUTION  
3.01 INSPECTION:  
A. GENERAL: EXAMINE AREAS AND CONDITIONS UNDER WHICH FIRE PROTECTION MATERIALS AND PRODUCTS ARE TO BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO INSTALLER.  
3.02 INSTALLATION OF BASIC IDENTIFICATION:  
A. GENERAL: INSTALL MECHANICAL IDENTIFICATION SUCH THAT ALL FIRE PROTECTION PIPING AND EQUIPMENT CAN BE IDENTIFIED.  
B. INSTALL FIRE PROTECTION SIGNS ON PIPING IN ACCORDANCE WITH NFPA 13 AND NFPA 14 REQUIREMENTS.  
3.03 INSTALLATION OF PIPES AND PIPE FITTINGS:  
A. GENERAL: INSTALL PIPES AND PIPE FITTINGS IN ACCORDANCE WITH DRAWING AND REQUIREMENT OF AUTHORITY HAVING JURISDICTION. NOTE THAT ALL WORK INCLUDING UNDERGROUND LINES MUST BE INSTALLED BY A LICENSED SPRINKLER CONTRACTOR.  
B. COMPLY WITH REQUIREMENTS OF NFPA 13 AND NFPA 14 FOR INSTALLATION OF FIRE PROTECTION PIPING MATERIALS. INSTALL PIPING PRODUCTS WHERE INDICATED, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PIPING SYSTEMS COMPLY WITH REQUIREMENTS AND SERVE INTENDED PURPOSES.  
C. COORDINATE WITH OTHER WORK, INCLUDING PLUMBING PIPING, AS NECESSARY, TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORK.  
D. INSTALL DRAIN PIPING AT LOW POINTS OF PIPING SYSTEMS. PROVIDE DRY DRUM DRIPS WHERE INDICATED.  
E. INSTALL SECTIONAL VALVES IN INLET PIPING, AT BOTTOM OF EACH RISER, AND IN LOOPS.  
F. INSTALL FIRE DEPARTMENT CONNECTION VALVES IN PIPING WHERE FIRE DEPARTMENT CONNECTIONS ARE INDICATED.  
G. INSTALL WATER FLOW INDICATORS WHERE INDICATED.  
1. APPROVED MANUFACTURERS: POTTER, VIKING, AND WATTS.  
H. MOUNT SUPERVISORY SWITCHES ON EACH SECTIONAL VALVE.  
I. INSTALL PRESSURE GAGES ON RISER OR MAIN FEED, AT EACH SPRINKLER TEST CONNECTION, AND AT TOP OF EACH STANDPIPE.  
J. INSTALL MANUAL SHUTOFF AT EACH AUDIBLE ALARM STATION.  
K. INSTALL INSPECTOR'S TEST CONNECTIONS WHERE INDICATED, OR AT MOST REMOTE POINT FROM RISER.  
L. INSTALL ELECTRICALLY OPERATED ALARM BELL NEAR FIRE DEPARTMENT CONNECTION.  
1. FINISH: RED-ENAMEL FACTORY FINISH, SUITABLE FOR OUTDOOR USE.  
2. APPROVED MANUFACTURERS: FIRE-LITE ALARMS, NOTIFIER, AND POTTER.  
3.04 INSTALLATION OF VALVES:  
A. INSTALL VALVES IN PER MANUFACTURES WRITTEN RECOMMENDATIONS.  
B. DETECTOR CHECK VALVES: INSTALL IN HORIZONTAL POSITION AS INDICATED, ORIENTED FOR PROPER FLOW DIRECTION. INSTALL BY-PASS METER WITH GLOBE VALVE AND CHECK VALVE, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DIRECTIONS.  
C. INSTALL BACKFLOW PREVENTION VALVE TO SEPARATE SPRINKLER SYSTEM FROM POTABLE WATER SYSTEM.  
3.05 INSTALLATION OF FIRE PROTECTION SPECIALTIES:  
A. GENERAL: INSTALL FIRE PROTECTION SPECIALTIES AS INDICATED, AND IN ACCORDANCE WITH NFPA 13 AND 14. FURNISH WIRING REQUIREMENTS TO ELECTRICAL INSTALLER FOR ELECTRICAL WIRING OF SUPERVISORY SWITCHES.  
3.06 FIELD QUALITY CONTROL:  
A. SPRINKLER PIPING FLUSHING: PRIOR TO CONNECTING SPRINKLER RISERS FOR FLUSHING, FLUSH WATER FEED MAINS, LEAD-IN CONNECTIONS AND CONTROL PORTIONS OF SPRINKLER PIPING. AFTER FIRE SPRINKLER PIPING INSTALLATION HAS BEEN COMPLETED AND BEFORE PIPING IS PLACED IN SERVICE, FLUSH ENTIRE SPRINKLER SYSTEM, AS REQUIRED TO REMOVE FOREIGN SUBSTANCES, UNDER PRESSURE AS SPECIFIED IN NFPA 13. CONTINUE FLUSHING UNTIL WATER IS CLEAR, AND CHECK TO ENSURE THAT DEBRIS HAS NOT CLOGGED SPRINKLERS.  
B. PERFORM HYDROSTATIC TESTING OF COMPLETED OUTSIDE LINES IN ACCORDANCE WITH NFPA 24 UNLESS MORE STRINGENT TEST REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.  
C. HYDROSTATIC TESTING: AFTER FLUSHING SYSTEM, TEST FIRE SPRINKLER PIPING HYDROSTATICALLY, FOR PERIOD OF 2 HOURS, AT NOT LESS THAN 200 PSI OR AT 50 PSI IN EXCESS OF MAXIMUM STATIC PRESSURE WHEN MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI. CHECK SYSTEM FOR LEAKAGE OF JOINTS. MEASURE HYDROSTATIC PRESSURE AT LOW POINT OF EACH SYSTEM OR ZONE BEING TESTED.  
D. REPAIR OR REPLACE PIPING SYSTEM AS REQUIRED TO ELIMINATE LEAKAGE IN ACCORDANCE WITH NFPA STANDARDS FOR "LITTLE OR NO LEAKAGE" AND RETEST AS SPECIFIED TO DEMONSTRATE COMPLIANCE.  
3.07 ADJUSTING AND CLEANING:  
A. CLEANING AND INSPECTING: CLEAN AND INSPECT FIRE PROTECTION SYSTEMS TO BE WIP-DOWN CLEAN AND FREE FROM LEAKS AND DEFECTS. INSPECT PIPE HANGERS TO INSURE SECURE STRUCTURAL CONNECTION AND THE HANGER IS TIGHT AND CARRYING THE WEIGHT OF THE PIPE.  
3.08 EXTRA STOCK:  
A. HEADS: FOR EACH STYLE AND TEMPERATURE RANGE REQUIRED, FURNISH ADDITIONAL SPRINKLER HEADS, AMOUNTING TO ONE UNIT FOR EVERY 100 INSTALLED UNITS, BUT NOT LESS THAN 5 UNITS OF EACH.  
B. WRENCHES: FURNISH 2 SPANNER WRENCHES FOR EACH TYPE AND SIZE OF VALVE CONNECTION AND FIRE HOSE COUPLING.

FIRE PROTECTION GENERAL NOTES:

1. THE SPRINKLER HEADS SHOWN ARE GENERAL IN NUMBER AND LOCATION. THE EXACT NUMBERS AND LOCATIONS SHALL BE DETERMINED BY THE SUCCESSFUL SPRINKLER INSTALLER AND SHALL BE SHOWN ON HIS SHOP DRAWINGS. THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13 & 24.
2. PROVIDE A HYDRAULICALLY DESIGNED FULL COVERAGE SPRINKLER SYSTEM.
3. PROVIDE DRY PENDANT TYPE HEADS IN COOLER, FREEZER AND/OR OTHER AREAS THAT ARE SUBJECT TO FREEZING FOR FREEZE PROTECTION.
4. THE SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF SPRINKLER HEADS AND ASSOCIATED PIPING WITH ALL OTHER TRADES.
5. ALL SPRINKLER HEADS LOCATED IN 2x2 TILES SHALL BE CENTERED.
6. SPRINKLER SYSTEM SHALL BE LIGHT HAZARD IN ALL AREAS, EXCEPT ORDINARY HAZARD GROUP I IN ELECTRICAL ROOM, AND ORDINARY HAZARD GROUP II IN COOKING KITCHEN, MECHANICAL ROOM, AND STORAGE ROOMS.
7. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FULL REPLACEMENT COST OF SURFACES DAMAGED BY DRAINAGE FROM THE SPRINKLER SYSTEM.
8. THE CONTRACTOR MUST PROVIDE A CERTIFIED CALCULATION DEMONSTRATING THE CHARACTERISTICS OF THE PROPOSED SYSTEM AND SHOWING PIPE SIZE AND SYSTEM FLOW.
9. PROVIDE A "PUMPER" HYDRANT WITHIN 100' OF THE FIRE DEPARTMENT CONNECTION AS REQUIRED BY THE AHJ.
10. THE NEW SPRINKLER SYSTEM IS AN NFPA 13-4.1 WET PIPE SYSTEM.
11. ALL FIRE PROTECTION PIPING STARTING FROM POINT OF SERVICE ON MUST BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR. SEE THE SITE UTILITY DRAWING FOR UNDERGROUND PIPING AND VALVES REQUIRED.
12. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
13. THE VELOCITY OF WATER FOR SPRINKLER PIPING SHALL NOT EXCEED 21 FPS (FEET PER SECOND).
14. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES.
15. SEE ELECTRICAL LIGHTING PLANS FOR LOCATIONS OF LIGHTS.
16. SEE MECHANICAL PLANS FOR LOCATION OF DIFFUSERS.

SPRINKLER LEGEND

SYM	DESCRIPTION	SPRAY	TYPE	TEMP.	ORIFICE	K	MODEL #	FINISH
▷	SIDEWALL	15'	STANDARD	165°	1/2"	5.6	V2709	BRASS
●	PENDENT	15' X 15'	QUICK RESPONSE	165°	1/2"	5.6	V2708	SEMI-RECESSED WHITE
○	UPRIGHT	15' X 15'	STANDARD	212°	1/2"	5.6	V2703	BRASS
▶	DRY SIDEWALL	15'	STANDARD	200°	1"	5.6	V3609	BRASS



BRAIDED FLEX CONNECTION FOR SPRINKLER HEAD

SCALE: 1/2" = 1'-0"

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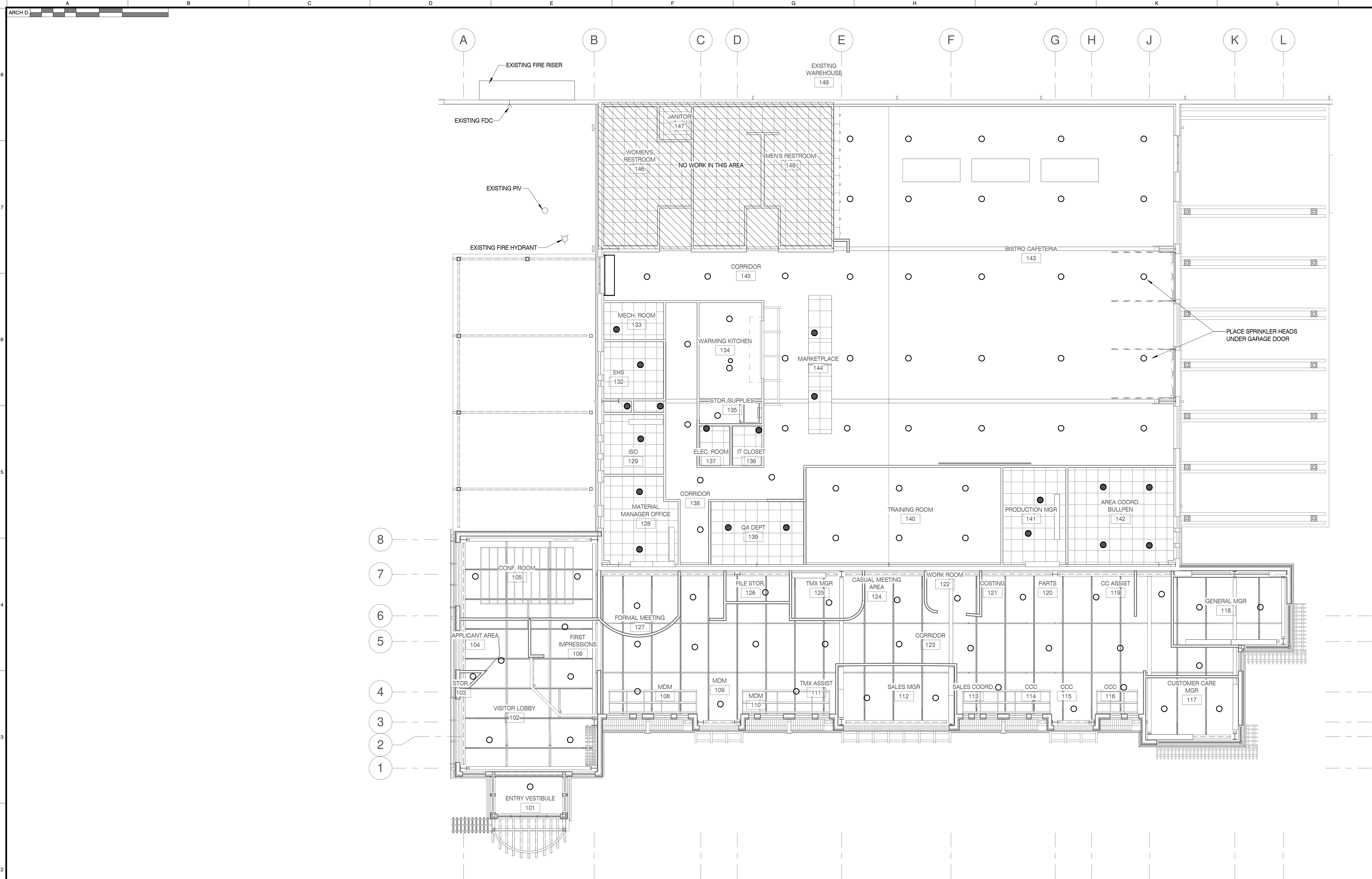
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FIRE PROTECTION  
LEGENDS,  
SPECIFICATIONS, AND  
NOTES

SHEET NO.:



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## PARTIAL FLOOR PLAN - FIRE PROTECTION

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

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# MBI

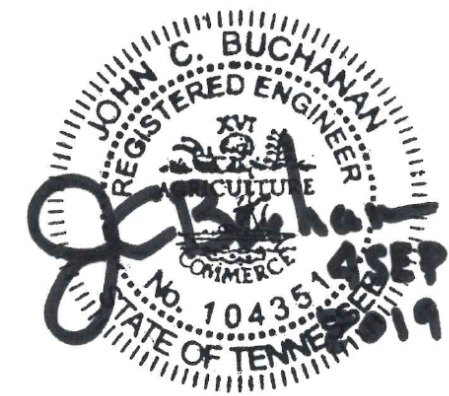
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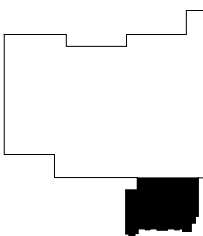
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PARTIAL FLOOR PLAN -  
FIRE PROTECTION

SHEET NO.:

FP101



A horizontal number line with three points labeled A, B, and C. Point A is at the left end, point B is in the middle, and point C is at the right end.

3. DENSITY DUCT/WRAP INSULATION. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50. ALL EXTERIOR DUCT/WORK SHALL BE WEATHER-PROOFED WITH A COVERING OF "ALUMIGUARD" WRAP.

D. CONTROLS:

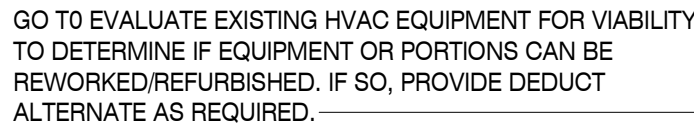
1. CONTROLS SHALL BE ELECTRIC/ELECTRONIC TYPE, PROVIDE ALL WIRING, ACTUATORS, AND CONTROL DEVICES.
2. FURNISH ALL THERMOSTATS AND SENSORS WITH INSULATED SUB-BASE.

A horizontal number line with tick marks at G, H, and J. The line is labeled with G, H, and J below the tick marks.

A horizontal number line with three points labeled K, L, and M. Point K is at the left end, L is in the middle, and M is at the right end.

SHEET NO.: **M001**





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

1

- ## GENERAL NOTES
- 
1. COORDINATE EXACT CEILING GRILLE LOCATION WITH REFLECTED CEILING PLAN AND LIGHTING PLAN.
  2. UNLESS SPECIFICALLY NOTED OTHERWISE, ROUTE ALL DUCTWORK IN CEILING SPACE.
  3. ALL DUCT ELEVATIONS ARE TO BOTTOM OF DUCT.

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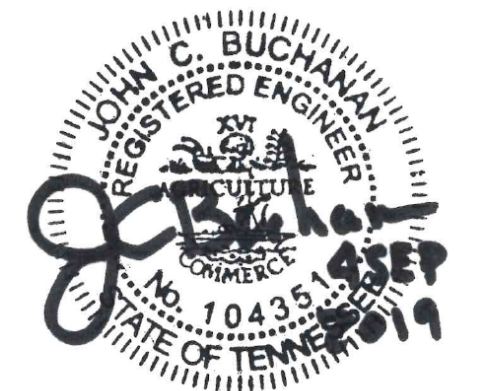
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## PROJECT INFORMATION

PROJECT: \_\_\_\_\_

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

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PROJECT NO.: 180789.06

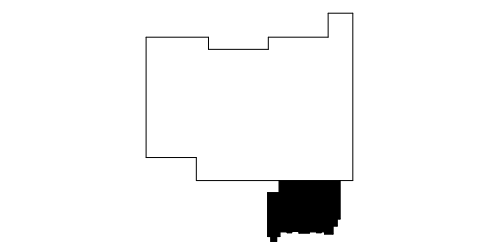
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## REVISION INFORMATION

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## KEY PLAN



## SHEET INFORMATION

SHEET ISSUED:	08/23/2019
DESIGNED BY:	ALJ
DRAWN BY:	ALJ
REVIEWED BY:	JCB
SHEET TITLE:	

FLOOR PLAN - HVAC

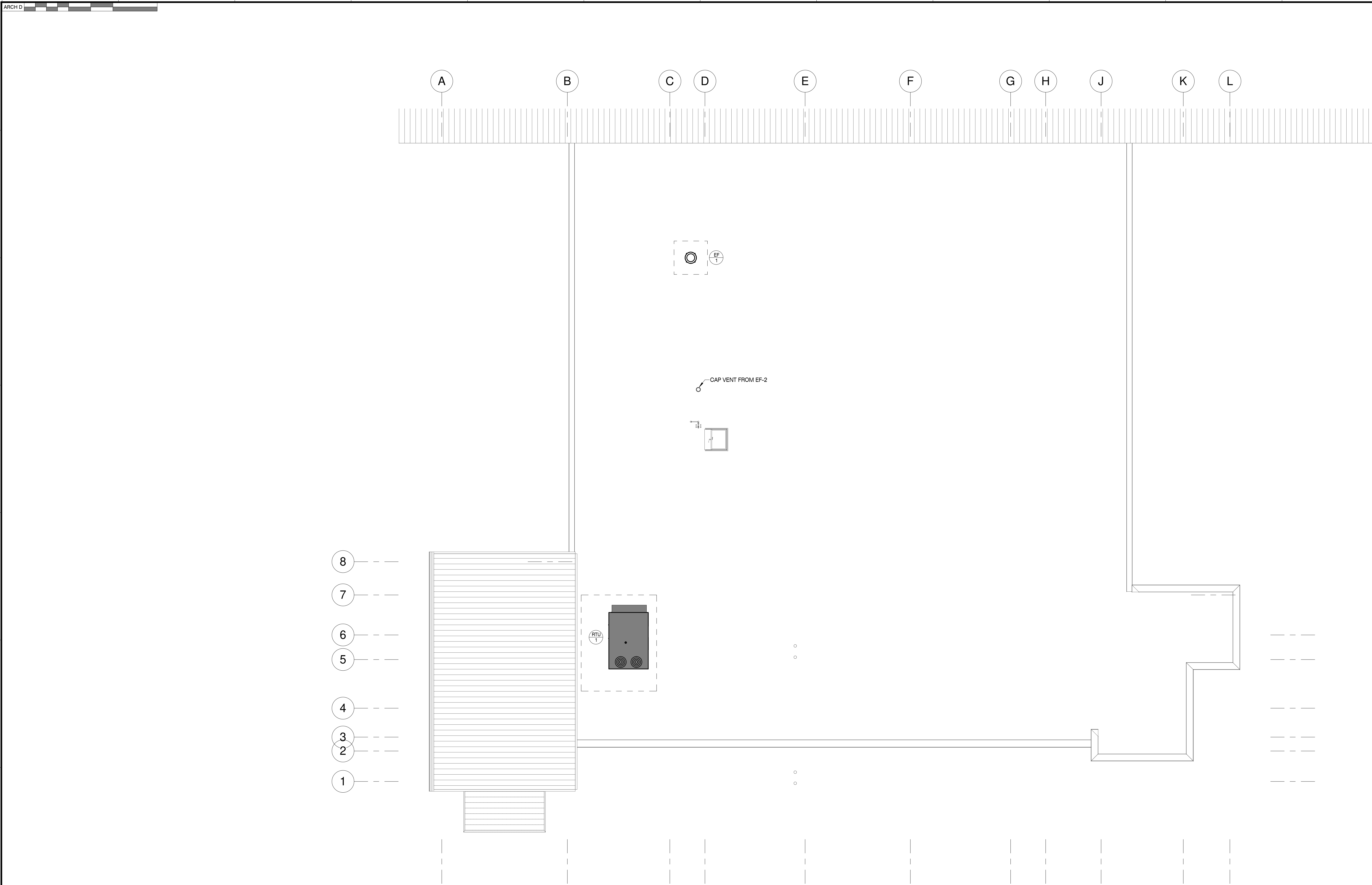
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SHEET NO.:

# M101



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ROOF PLAN - HVAC

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

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PROJECT NO.: 180789-06

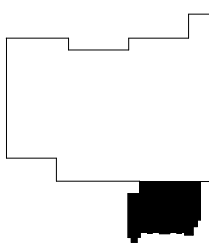
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REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN



SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: ALJ  
DRAWN BY: ALJ  
REVIEWED BY: JCB  
SHEET TITLE:

ROOF PLAN - HVAC

SHEET NO.:

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





## VARIABLE VOLUME CENTRAL STATION AIR HANDLER SCHEDULE

DRAWING SYMBOL	SUPPLY AIR			OUTSIDE AIR CFM	DX COOLING				ELECTRIC HEATING				SMOKE DETECTORS		EFFICIENCIES			SINGLE POINT ELECTRICAL			WEIGHT (LBS.)	MFR MODEL NUMBER
	TOTAL CFM	EXT. SP (IN. WG)	FAN HP		TEMPS (°F) @ 95°F AMBIENT UNIT ENT AIR	COIL LVG AIR	NET CAPACITIES (MBH) TOTAL	SENS	kW	OUT MBH	EAT (°F)	LAT (°F)	SUPPLY	RETURN	EER	IEER	AFUE	MCA	MOCP	VOLTAGE		
	10,000	0.875	7.5	1,540	74.0 DB 62.6 WB	56.8 DB 54.1 WB	276.25	217.9	36.0	122.9	70.0	81.3	YES	YES	10.6	?	?	69.0	70	460/3ø	2,182	TRANE THD300

### ACCESSORIES AND FEATURES:

- PROVIDE NON-FUSED DISCONNECT.
- PROVIDE 5 YEAR COMPRESSOR WARRANTY.
- PROVIDE WITH DOUBLE WALL INSULATED CONSTRUCTION, CLASS 'A' THERMAL BREAK (NO THRU METAL)
- PROVIDE ROOF CURB COMPATIBLE WITH ROOF SYSTEM INSTALLED.
- COOLING CAPACITIES ARE SCHEDULED AT 95 DEGREES OUTDOOR TEMPERATURE.
- PROVIDE ONE VFD PER MOTOR FOR EACH UNIT. VFD'S TO BE INSTALLED WITHIN UNIT. PROVIDE PERFORATED ACOUSTIC LINER. FAN MOTORS SHALL HAVE SHAFT GROUNDING RINGS.
- PROVIDE TYPE "M" COPPER CONDENSATE DRAIN WITH P-TRAP. SPILL ON SPLASH BLOCK.
- PROVIDE ALL COILS WITH POSTIVELY SLOPED STAINLESS STEEL DRAIN PANS. PROVIDE AT EACH COIL PAN A FLOAT SWITCH INTERLOCKED TO SHUT UNIT DOWN UPON HIGH WATER LEVEL. AN ALARM SHALL BE SENT TO THE CONTROL SYSTEM.
- PROVIDE AUTOMATIC SHUTDOWN BY SUPPLY AND RETURN DUCT MOUNTED SMOKE DETECTORS. DETECTORS ARE TO BE PROVIDED BY AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED IN DUCTWORK BY THE MECHANICAL CONTRACTOR. INSTALL PER NFPA AND ALL LOCAL CODES.
- PROVIDE UNIT WITH WEB ACCESS MICROPROCESSOR CONTROLLER. SEE CONTROL DESCRIPTIONS AND SEQUENCES OPERATION FOR ADDITIONAL INFORMATION.
- PROVIDE AIRFLOW STATIONS FOR SUPPLY, RETURN, AND OUTSIDE AIR.
- FILTER SECTIONS ARE INTERNAL TO THE UNIT AND ARE **CALCULATED AS INTERNAL PRESSURE DROPS**.
- PROVIDE COMPARITIVE ENTHALPY ECONOMIZER.
- MANUFACTURER SHALL BE TRANE OR ENGINEERED APPROVED EQUAL.



## VAV BOX WITH ELECTRIC RE-HEAT SCHEDULE

DRAWING SYMBOL	COOLING CFM RANGE		NO LEVEL @ UPPER LIMIT CFM	MAX. S.P. THRU BOX (IN. WG)	INLET SIZE	RE-HEAT						MANUFACTURER MODEL NO.
	UPPER LIMIT	LOWER LIMIT				CFM	MAX. MBH	KW	VOLTAGE	MCA	MOCP	
	910	455	26	0.75	10"	455	17.5	5.5	277/1ø	24.8	25	TRANE VCEF10
	495	250	26	0.75	6"	250	9.6	3.0	277/1ø	10.8	15	TRANE VCEF06
	790	395	30	0.75	8"	395	15.2	4.5	277/1ø	16.2	20	TRANE VCEF08
	585	295	26	0.75	8"	295	11.4	3.5	277/1ø	12.6	15	TRANE VCEF08
	610	305	26	0.75	8"	305	11.7	3.5	277/1ø	12.6	15	TRANE VCEF08
	615	310	26	0.75	8"	310	11.9	3.5	277/1ø	12.6	15	TRANE VCEF08
	590	295	26	0.75	8"	295	11.4	3.5	277/1ø	12.6	15	TRANE VCEF08
	325	165	29	0.75	5"	165	6.4	2.0	277/1ø	7.2	15	TRANE VCEF05
	130	65	19	0.75	4"	65	2.5	1.0	277/1ø	3.6	15	TRANE VCEF04
	135	70	19	0.75	4"	70	2.7	1.0	277/1ø	3.6	15	TRANE VCEF04
	370	185	21	0.75	6"	185	7.1	2.5	277/1ø	9.0	15	TRANE VCEF06
	170	85	21	0.75	4"	85	3.3	1.0	277/1ø	3.6	15	TRANE VCEF04
	235	120	25	0.75	5"	120	4.6	1.5	277/1ø	5.4	15	TRANE VCEF05
	140	70	19	0.75	4"	70	2.7	1.0	277/1ø	3.6	15	TRANE VCEF04
	630	315	27	0.75	8"	315	12.1	4.0	277/1ø	14.4	15	TRANE VCEF08
	480	240	25	0.75	6"	240	9.2	3.0	277/1ø	10.8	15	TRANE VCEF06
	1,360	685	31	0.75	10"	685	26.4	8.0	277/1ø	28.9	30	TRANE VCEF10
	320	160	29	0.75	5"	160	6.2	2.0	277/1ø	7.2	15	TRANE VCEF05
	750	375	29	0.75	8"	375	14.4	4.5	277/1ø	16.2	20	TRANE VCEF08
	350	175	29	0.75	5"	175	6.7	2.0	277/1ø	7.2	15	TRANE VCEF05

### ACCESSORIES AND FEATURES:

- EACH BOX TO BE PROVIDED WITH FLOW SENSOR, DAMPER OPERATOR AND DIRECT CONTROL REGULATOR. EACH UNIT SHALL HAVE A MINIMUM CFM ADJUSTMENT AS SHOWN ABOVE. EACH UNIT SHALL REQUIRE A DIRECT ACTING TEMPARATURE SENSOR. SEE CONTROL SEQUENCES OF OPERATION FOR MORE INFORMATION
- EACH BOX SHALL BE PRESSURE INDEPENDENT. UNIT TO BE FORMED OF 24 GAUGE (MIN.) GALVANIZED STEEL AND SHALL BE ACOUSTICALLY AND THERMALLY LINED WITH 1" FOIL FACED INSULATION. INSULATION SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF NFPA 90A, UL 181, AND BACTERIOLOGICAL STANDARDS OF ASTM C 665.
- ALL TERMINALS TO BE RATED AT 1.5" INLET STATIC PRESSURE, MAX NOIS RADIATED AND DISCHARGE LEVELS WITHOUT ATTENUATION.
- DUCT RUN-OUT SIZES DO NOT EQUAL BOX INLET SIZES IN ALL CASES. A TRANSITION MAY BE REQUIRED. SEE PLANS.


## EXHAUST FAN SCHEDULE

DRAWING SYMBOL	USE	CFM	S.P. IN. WG	RPM	HP / WATTS	TYPE	VOLTAGE	SONES	WEIGHT (LBS.)	MANUFACTURER MODEL NO.
	RESTROOM EXHAUST	1,100	0.5	1,725	1/3	ROOF MOUNTED CENTRIFUGAL	115/1ø	10.6	48	GREENHECK G-103-A
	KITCHEN EXHAUST	125	0.5	1,050	128 W	CEILING EXHAUST	115/1ø	4.0	10	GREENHECK SP-B150

### ACCESSORIES AND FEATURES:

- ROOF FANS: ROUND LOW SILHOUETTE ALUMINUM HOUSING; CENTRIFUGAL ALUMINUM WHEEL; BIRDSCREEN & BACKDRAFT DAMPER; SAFETY DISCONNECT @ FAN; PREFAB CURB TO MATCH ROOF CONSTRUCTION AND SLOPE; WALL SWITCH OR STARTER.
- CEILING FANS; ALUMINUM INLET GRILLE; LINED HOUSING; CENTRIFUGAL FAN; BACKDRAFT DAMPER; FLAT ROOF CAP OR ROOF JACK AS APPLICABLE; SOLID STATE SPEED CONTROLLER MTD. TO UNIT FOR BALANCING AND WALL SWITCH FOR ON/OFF CONTROL.

## AIR CURTAIN SCHEDULE

DRAWING SYMBOL	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	MOTOR HP	CFM	FLA	VOLTAGE	CONTROL	MANUFACTURER MODEL NO.
	84"	20"	12"	125	2 x 1/2	2,836	10.2	115 / 1Ø	INTERLOCKED W/ DOORS	MARS QP1084-2UA-AL

### ACCESSORIES AND FEATURES:

- STANDARD ANONIZED ALUMINUM FINISH
- DOOR LIMIT SWITCHES

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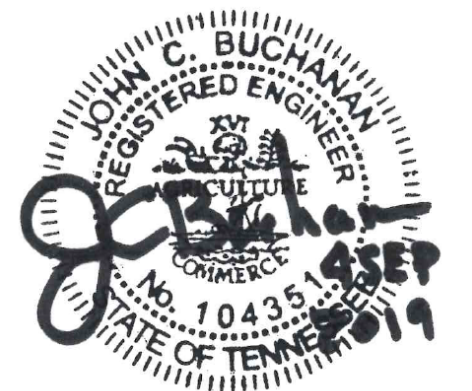
### CONSULTANT

MECHANICAL ENGINEER:

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### PROJECT INFORMATION

PROJECT:

## CLAYTON ADDISON MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789.06

### ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

### REVISION INFORMATION

NO.	DATE	DESCRIPTION

### KEY PLAN

### SHEET INFORMATION

SHEET ISSUED: 08/23/2019  
DESIGNED BY: ALJ  
DRAWN BY: ALJ  
REVIEWED BY: JCB  
SHEET TITLE:

## HVAC SCHEDULES

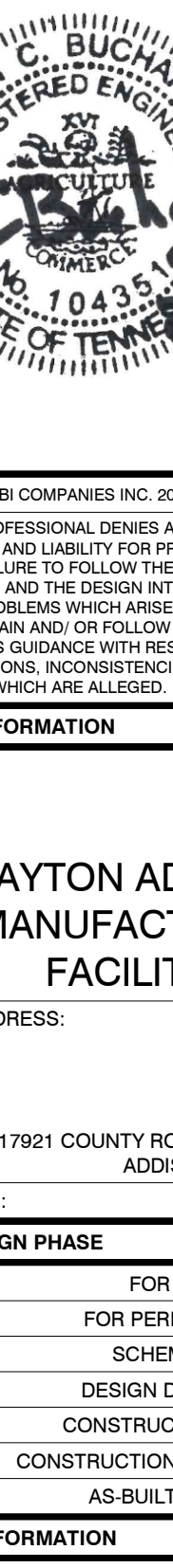
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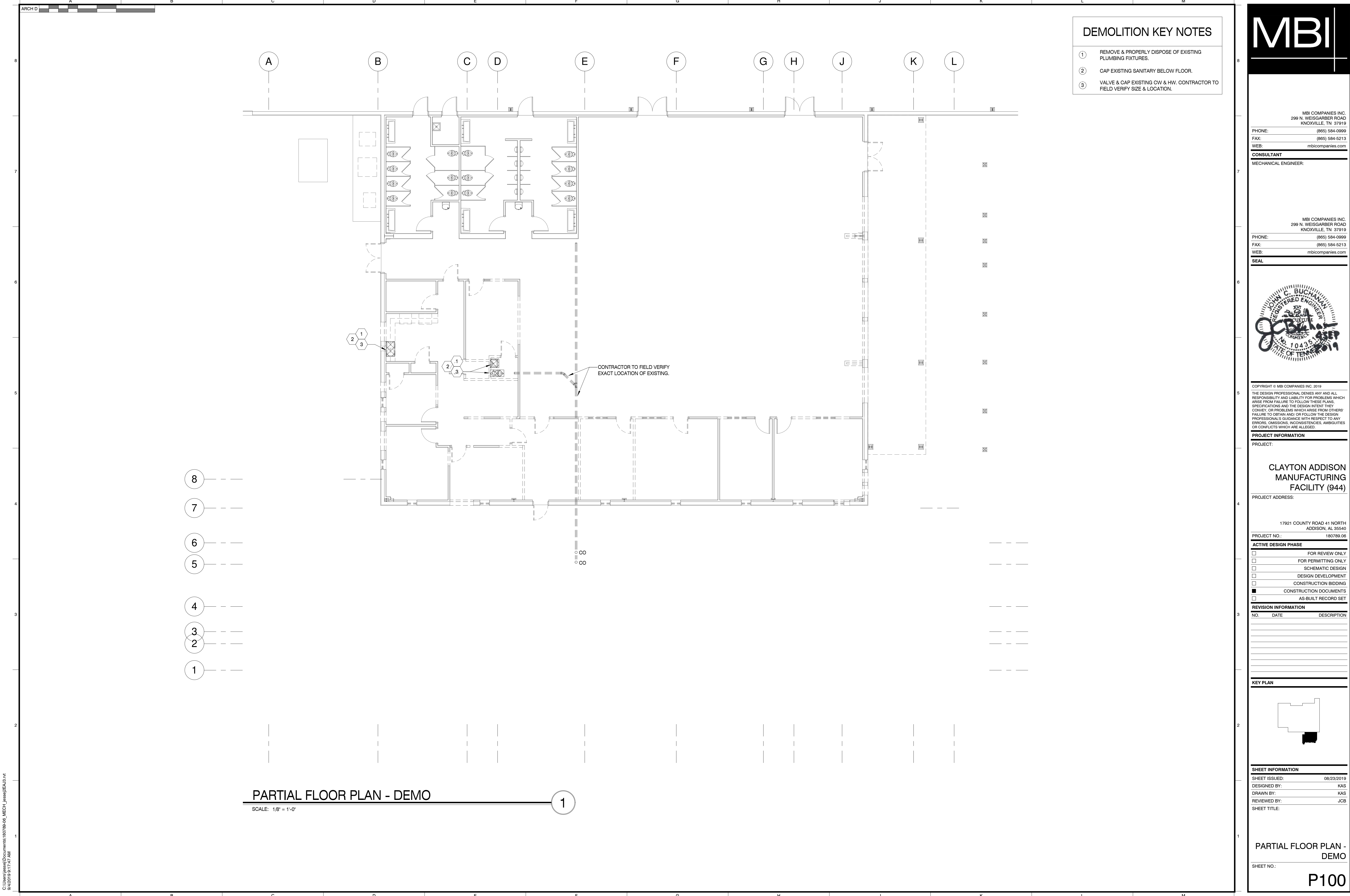




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NO.	DATE	DESCRIPTION
KEY PLAN		
SHEET INFORMATION		
SHEET ISSUED:		08/23/2019
DESIGNED BY:		KAS
DRAWN BY:		KAS
REVIEWED BY:		JCB
SHEET TITLE:		
PLUMBING LEGEND AND NOTES		
SHEET NO.:		
P001		



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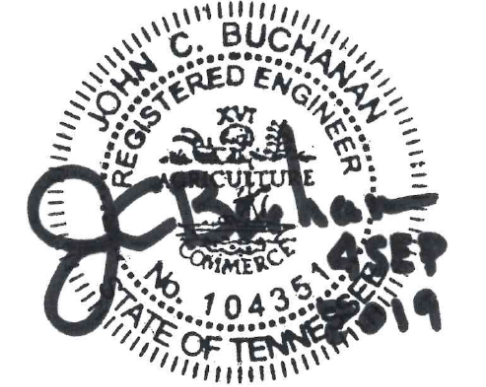
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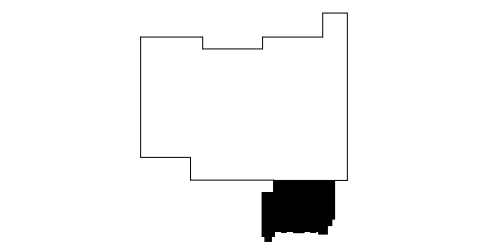
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**SHEET INFORMATION**

SHEET ISSUED:	08/23/2019
DESIGNED BY:	KAS
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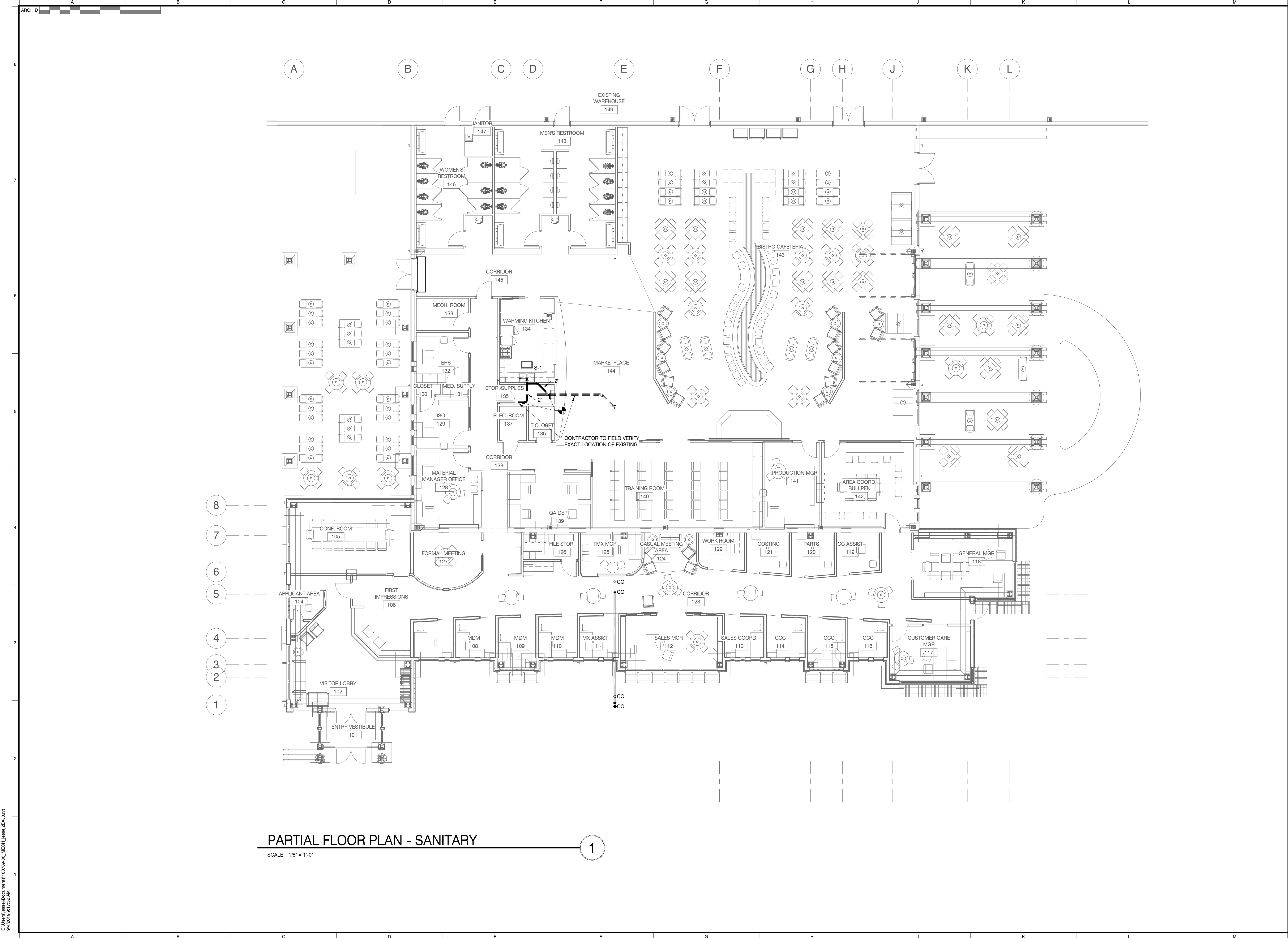
**PARTIAL FLOOR PLAN - DEMO**

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**P100**



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PARTIAL FLOOR PLAN - SANITARY

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

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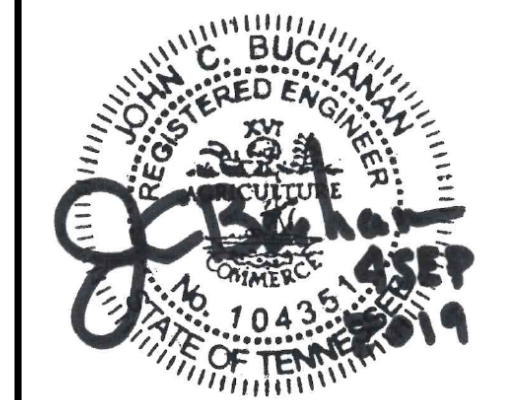
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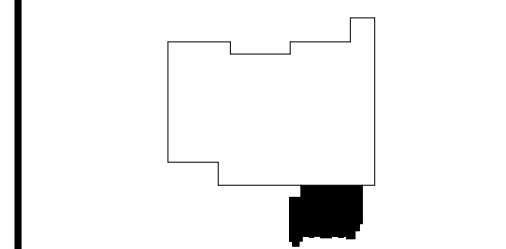
17921 COUNTY ROAD 41 NORTH  
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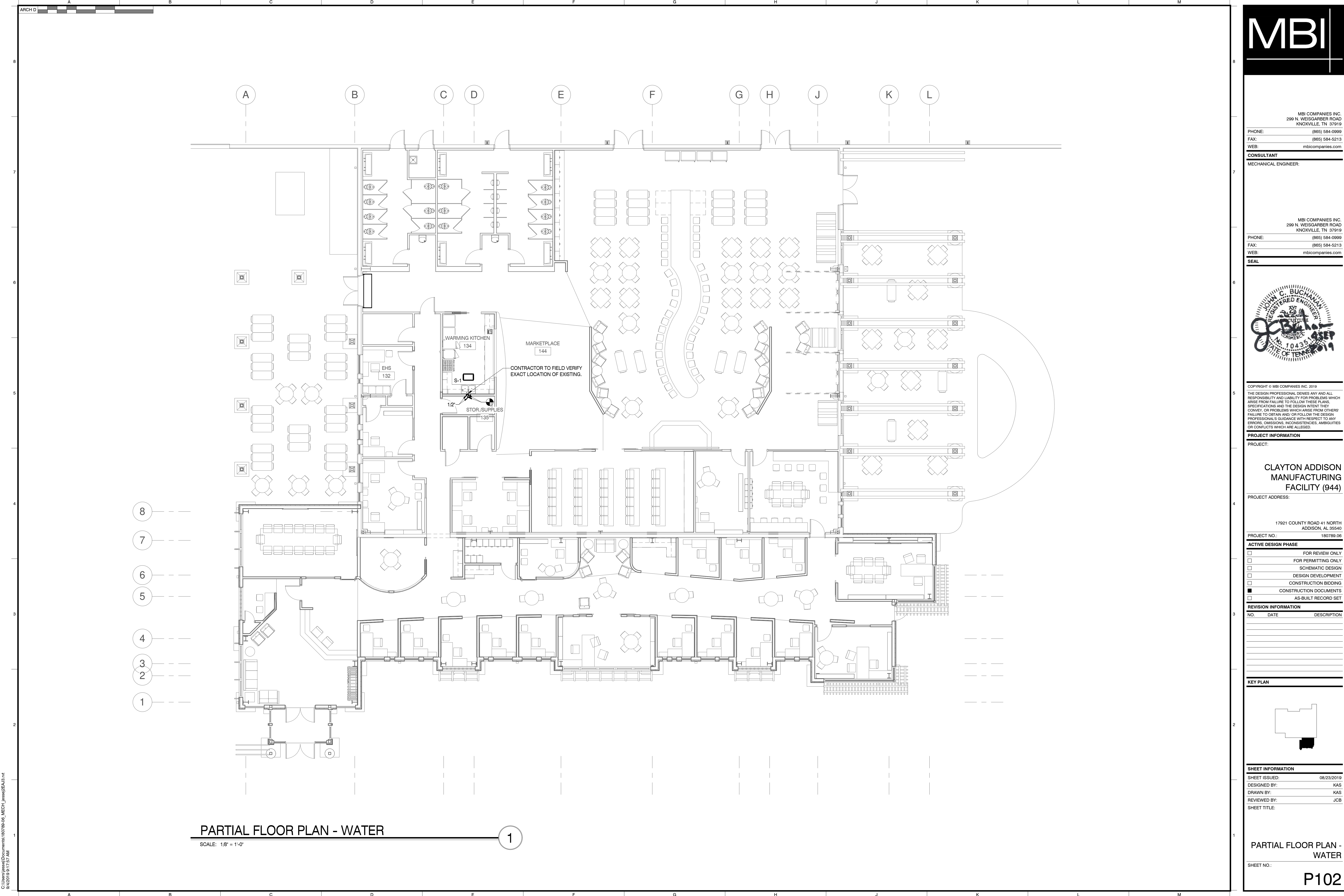
SHEET INFORMATION  
SHEET ISSUED: 08/23/2019  
DESIGNED BY: KAS  
DRAWN BY: KAS  
REVIEWED BY: JCB  
SHEET TITLE:

PARTIAL FLOOR PLAN -  
SANITARY

SHEET NO.:

P101





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PARTIAL FLOOR PLAN - WATER

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

1

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PROJECT INFORMATION

PROJECT:

CLAYTON ADDISON  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17821 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540

PROJECT NO.: 180789\_06

ACTIVE DESIGN PHASE

☐ FOR REVIEW ONLY

☐ FOR PERMITTING ONLY

☐ SCHEMATIC DESIGN

☐ DESIGN DEVELOPMENT

☐ CONSTRUCTION BIDDING

☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 08/23/2019

DESIGNED BY: KAS

DRAWN BY: KAS

REVIEWED BY: JCB

SHEET TITLE:

PARTIAL FLOOR PLAN - WATER

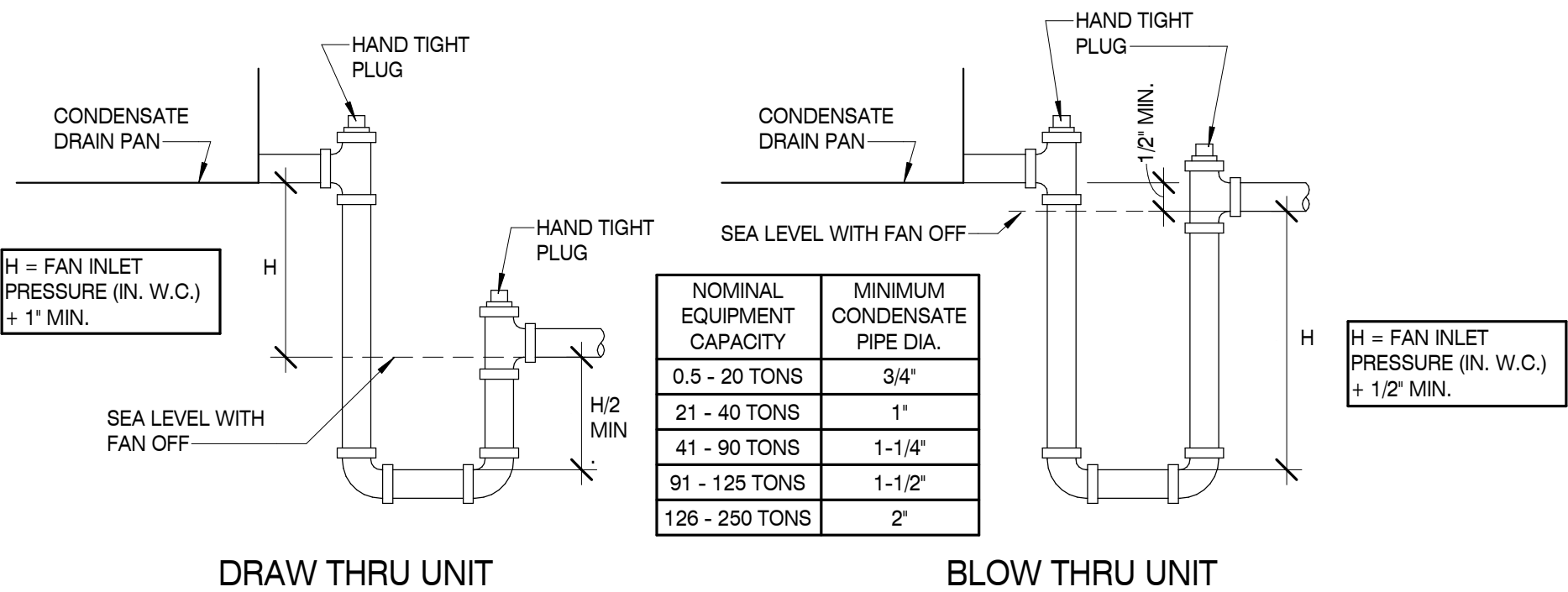
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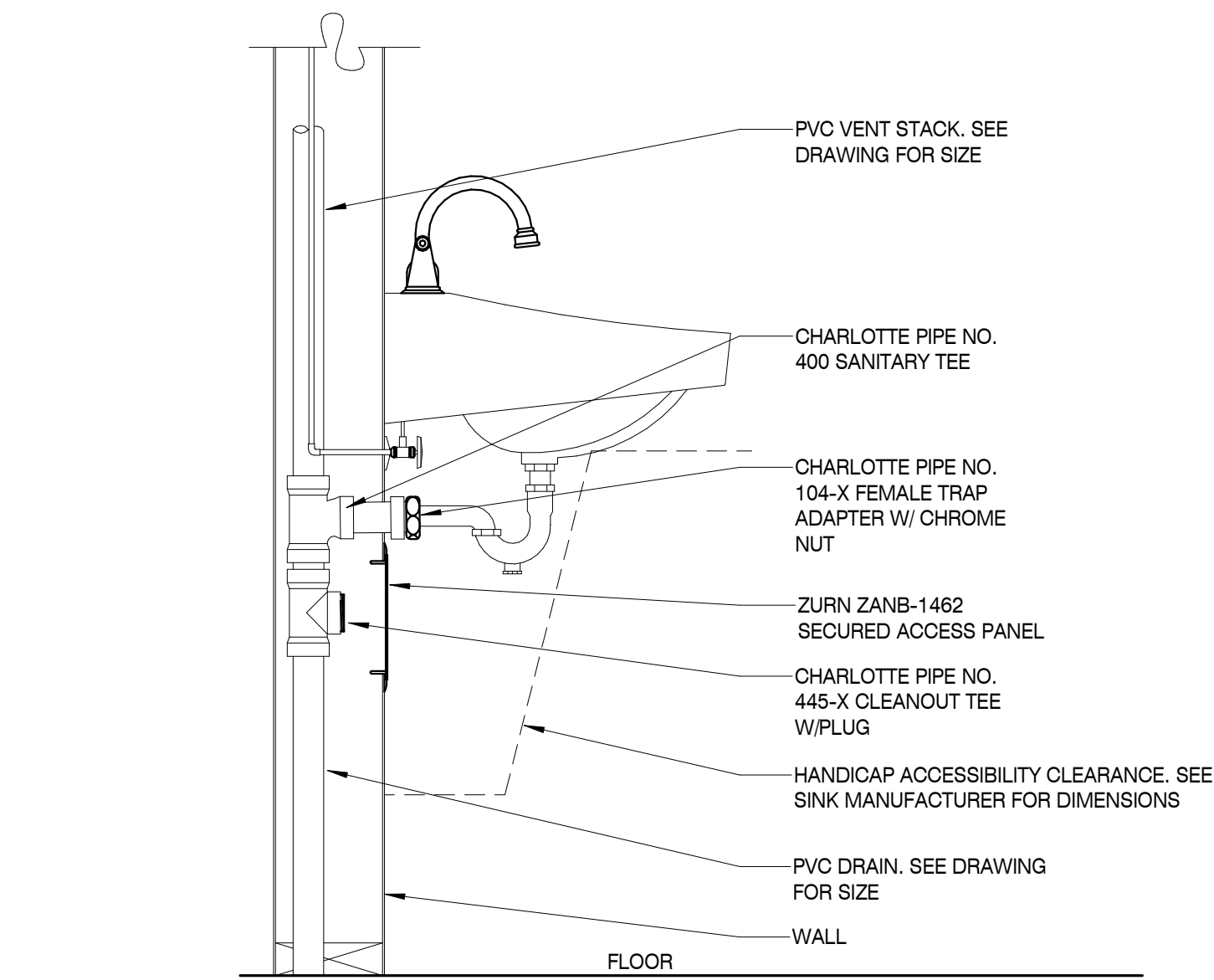
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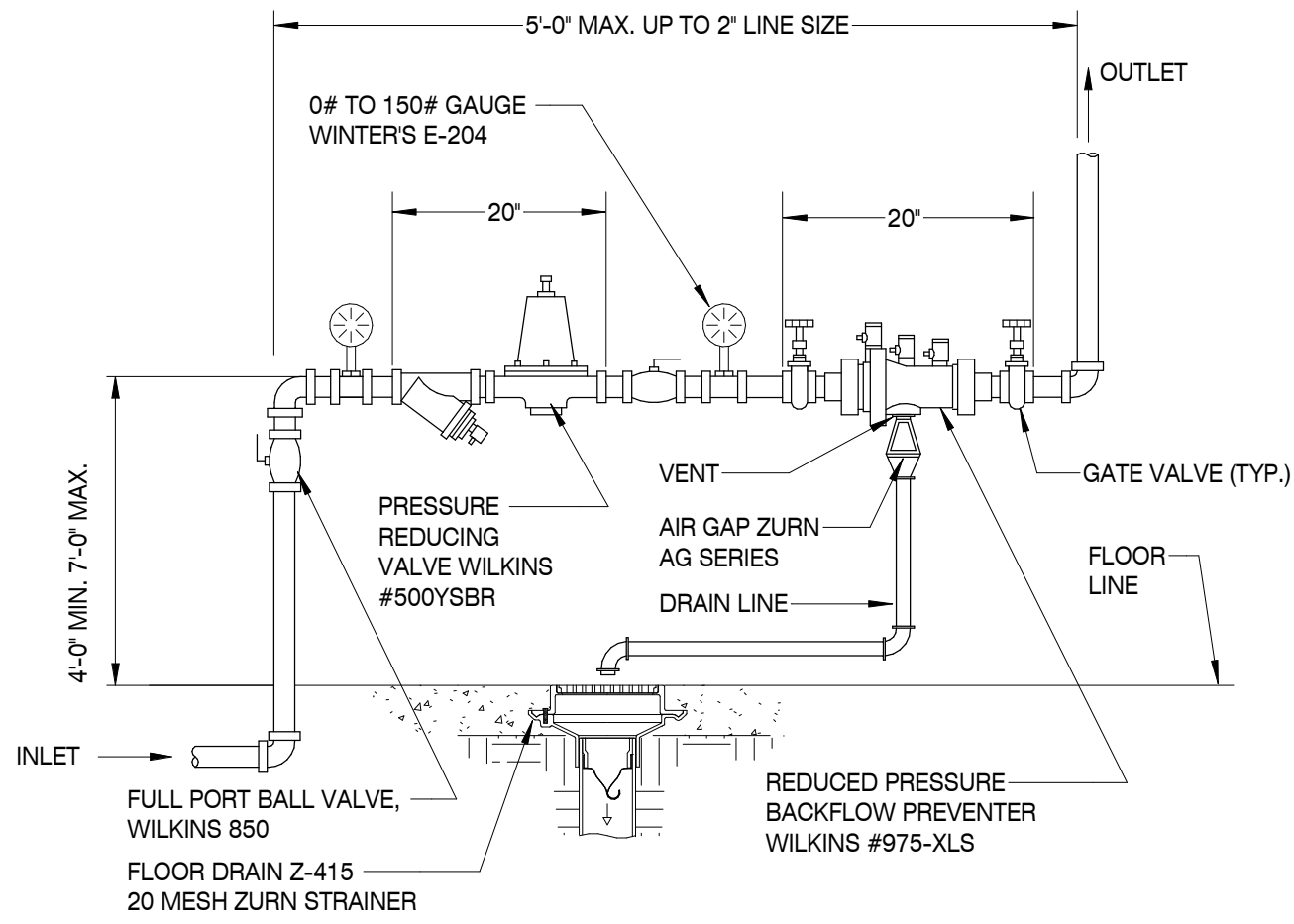
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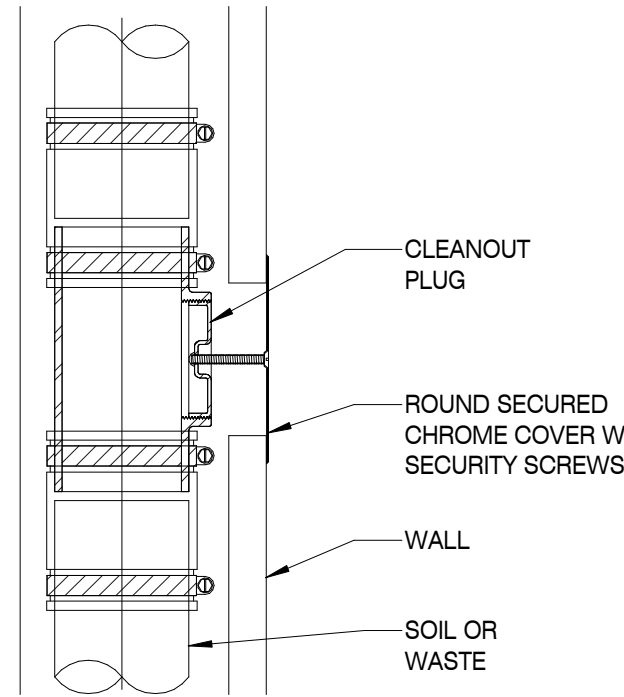
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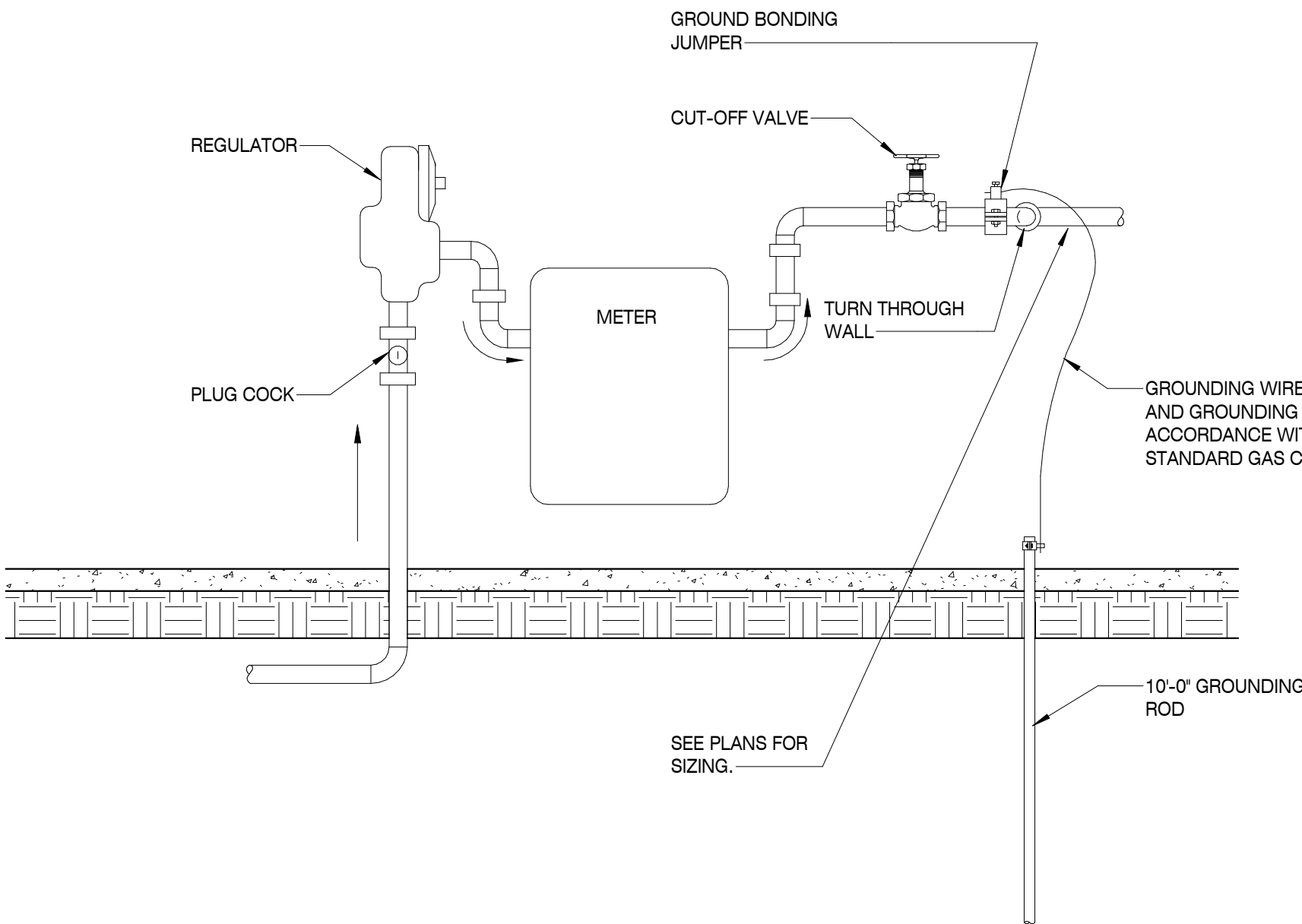
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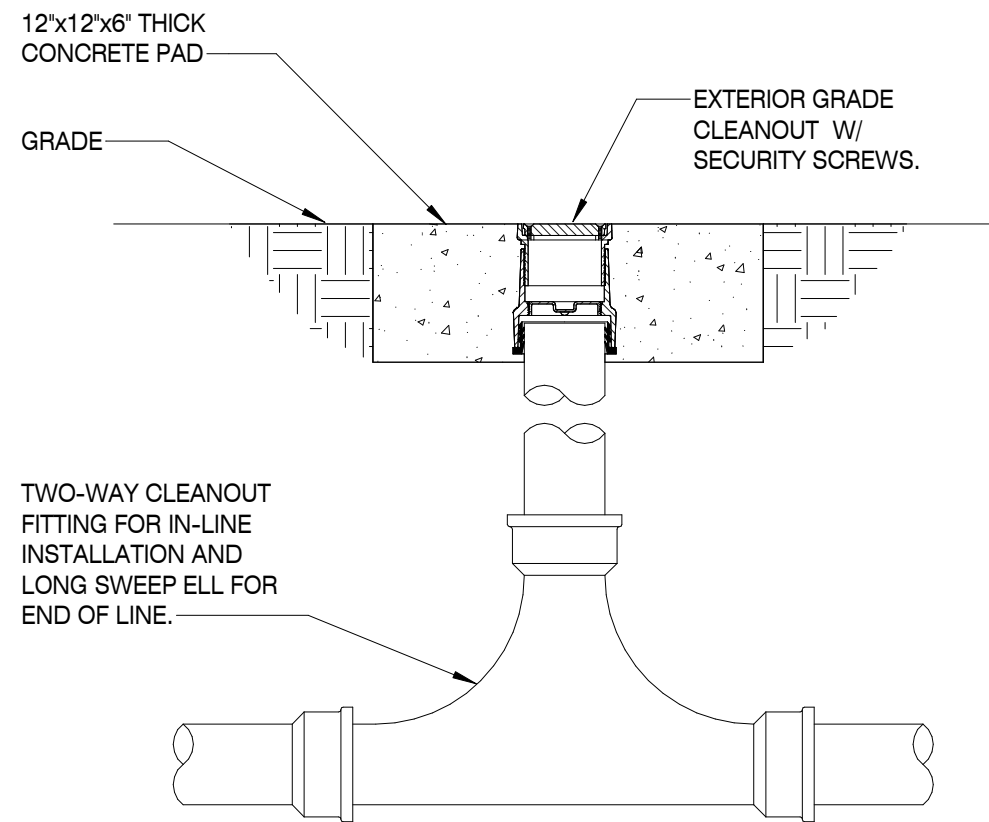
### WALL CLEANOUT

2



### GAS METER DETAIL

6



### EXTERIOR GRADE CLEANOUT

3

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PROJECT ADDRESS:  
  
17921 COUNTY ROAD 41 NORTH  
ADDISON, AL 35540  
PROJECT NO.: 180789-06

**ACTIVE DESIGN PHASE**  
☐ FOR REVIEW ONLY  
☐ FOR PERMITTING ONLY  
☐ SCHEMATIC DESIGN  
☐ DESIGN DEVELOPMENT  
☐ CONSTRUCTION BIDDING  
☒ CONSTRUCTION DOCUMENTS  
☐ AS-BUILT RECORD SET

**REVISION INFORMATION**  
NO. DATE DESCRIPTION

**KEY PLAN**

**SHEET INFORMATION**  
SHEET ISSUED: 08/23/2019  
DESIGNED BY: Designer  
DRAWN BY: Author  
REVIEWED BY: Checker  
SHEET TITLE:













































**PLUMBING DETAILS**  
SHEET NO.:

P301










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## ELECTRICAL LEGEND

	POWER PANELBOARD "LP1" MOUNT TOP 6'-0" ABOVE FINISHED FLOOR. SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED IN PANELBOARD AND PANELBOARD RATINGS.
	DOUBLE SECTION POWER PANELBOARD "LP1" MOUNT TOP 6'-0" ABOVE FINISHED FLOOR. SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED IN PANELBOARD AND PANELBOARD RATINGS.
	JUNCTION BOX, SIZE AND USE AS REQUIRED; COVERPLATE SHALL OVERLAP THE BOX EDGE BY 1/2" WHERE RECESSED IN WALL WITH CONCEALED WIRING.
	4" SQUARE JUNCTION BOX.
	RECESSED FOUR GANG FLOOR BOX. TWO GANGS FOR POWER AND TWO GANGS FOR DATA. PROVIDE TWO DUPLEX RECEPTACLES IN POWER GANGS, FLANGE, AND BRASS COVER PLATE. WALKER OR EQUAL.
	SPECIAL VOLTAGE OUTLET
	SINGLE RECEPTACLE - 125V, 20A, MOUNT 3" ABOVE BACKSPASH AT WORK COUNTERS AND LAVATORIES AND +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.
	DUPLEX RECEPTACLE - 125V, 20A MOUNT 3" ABOVE BACKSPASH AT WORK COUNTERS AND LAVATORIES AND +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. IS INDICATES ISOLATED GROUND TYPE WITH ORANGE COLOR. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.
	DUPLEX RECEPTACLE - AF INDICATES CIRCUIT FED VIA ARC FAULT CIRCUIT BREAKER. MOUNT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. PROVIDE HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.
	DUPLEX RECEPTACLE - 125V, 20A MOUNT 3" ABOVE BACKSPASH AT WORK COUNTERS AND LAVATORIES AND +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. GFI INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE. WP INDICATES WEATHERPROOF COVER. WPC INDICATES "CLOSED WHILE IN USE" TYPE WEATHERPROOF COVER. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.
	QUADRUPLEX CONVENIENCE OUTLET - 125V, 20A MOUNT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. HUBBELL OR LEVITON COMMERCIAL SPECIFICATION GRADE, TAMPER PROOF.
	MISCELLANEOUS MECHANICAL EQUIPMENT, WH=WATER HEATER, UH=UNIT HEATER
	EXIT SIGN, "X" INDICATES FIXTURE TYPE. "C" INDICATES CEILING MOUNTED, "W" INDICATED WALL MOUNTED, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS. UNIT EQUIPPED WITH BATTERY BACK-UP.
	EMERGENCY/EXIT LIGHT COMBO UNIT, BATTERY BACK-UP POWERED. WIRE UNIT TO UNSWITCHED HOT ON CIRCUITS SHOWN.
	EMERGENCY LIGHTING UNIT, BATTERY BACK-UP POWERED. WIRE UNIT TO UNSWITCHED HOT ON CIRCUITS SHOWN.
	DOWNLIGHT. "A" IS THE FIXTURE TYPE IN THE FIXTURE SCHEDULE "a" INDICATES WHICH SWITCH CONTROLS THE FIXTURE; AND "3" INDICATES WHICH PANELBOARD CIRCUIT THE FIXTURE IS FED FROM.
	DOWNLIGHT WITH BUILT IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING WHEN NORMAL POWER IS NOT AVAILABLE. PROVIDE UNSWITCHED "HOT" CONDUCTOR (FROM SAME CIRCUIT FIXTURE IS USING) TO BATTERY PACK, IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHT FIXTURE WITHOUT DISCHARGING BATTERY PACK. ANY FIXTURE SYMBOL THAT HAS SHADING INDICATES THAT FIXTURE HAS AN EMERGENCY BATTERY BACK-UP.
	FLUORESCENT LIGHTING FIXTURE. "A" IS THE FIXTURE TYPE IN THE FIXTURE SCHEDULE "a" INDICATES WHICH SWITCH CONTROLS THE FIXTURE; AND "3" INDICATES WHICH PANELBOARD CIRCUIT THE FIXTURE IS FED FROM. "NL" INDICATES NIGHT LIGHT FIXTURE. CONNECT FIXTURE TO AN UNSWITCHED HOT SO THAT LIGHT STAYS ON AT ALL TIMES.
	FLUORESCENT LIGHTING FIXTURE WITH BUILT IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING WHEN NORMAL POWER IS NOT AVAILABLE. PROVIDE UNSWITCHED "HOT" CONDUCTOR (FROM SAME CIRCUIT FIXTURE IS USING) TO BATTERY PACK, IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHT FIXTURE WITHOUT DISCHARGING BATTERY PACK. ANY FIXTURE SYMBOL THAT HAS SHADING INDICATES THAT FIXTURE HAS AN EMERGENCY BATTERY BACK-UP.
	CONDUIT UNDERGROUND, 1" C MINIMUM, UNLESS NOTED OTHERWISE.
	HOMERUN - LP1 INDICATES PANELBOARD 1,3,5 INDICATE CIRCUIT NUMBERS. SEE PANELBOARD DESIGNATION SCHEDULE FOR ADDITIONAL INFORMATION.
	MARKS INDICATE NO. OF #12 CONDUCTORS IN 3/4" CONDUIT + =PHASE + =NEUTRAL + =GROUND NO MARKS INDICATE 2 #12, #12 GROUND. WHEN TWO OR MORE CIRCUITS SHARE A COMMON NEUTRAL THE HOT CONDUCTORS MUST BE CONNECTED TO DIFFERENT PHASES IN THE PANELBOARD.
	CATV OUTLET MOUNT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. EXTEND 1" EMPTY CONDUIT FROM OUTLET BOX ABOVE CEILING AND TERMINATE WITH BUSHING. PROVIDE NYLON PULL CORD IN EACH CONDUIT. PROVIDE 4" SQUARE BOX WITH SINGLE GANG DEVICE RING.
	TELEPHONE/DATA OUTLET MOUNT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. EXTEND 1" EMPTY CONDUIT FROM OUTLET BOX ABOVE CEILING AND TERMINATE WITH BUSHING. PROVIDE NYLON PULL CORD IN EACH CONDUIT. PROVIDE 4" SQUARE BOX WITH SINGLE GANG DEVICE RING.
	LOCAL 120V WALL SWITCH, SINGLE POLE MOUNT +48" ABOVE FINISHED FLOOR. "3" INDICATES 3-WAY, "D" INDICATES DIMMER SWITCH, "OS" INDICATES OCCUPANCY SENSOR. SPECIFICATION GRADE.
	LOCAL LOW VOLTAGE "LV" WALL SWITCH, MOUNT +48" ABOVE FINISHED FLOOR. "3" INDICATES 3-WAY, "D" INDICATES DIMMER SWITCH, "OS" INDICATES OCCUPANCY SENSOR. SPECIFICATION GRADE.
	POWER PACK RELAY MODULE WITH 0-10V DIMMING FOR LIGHTING CONTROL.
	DUAL TECHNOLOGY OCCUPANCY SENSOR FOR LIGHTING CONTROL.
	FUSED DISCONNECT SWITCH. "60" INDICATES SWITCH SIZE. "30" INDICATES FUSE SIZE. HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURES OUTDOORS. FUSE PER NAMEPLATE OF EQUIPMENT.
	NON-FUSED DISCONNECT SWITCH. "30" INDICATES SWITCH SIZE. HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION SAME MOUNTING HEIGHT ABOVE FINISHED FLOOR AS WALL SWITCH.
	A.C. MOTOR "1/3" INDICATES HORSEPOWER.
	TELEPHONE BACKBOARD 4' X 4' X 3/4" THICK FIRE RESISTIVE PLYWOOD. MOUNT TOP OF THE PLYWOOD 6'-0" ABOVE FINISHED FLOOR. INSTALL #6 SOLID COPPER GROUND TO NEAREST BUILDING STEEL. PROVIDE 1-120V, 20A, DUPLEX RECEPTACLE ON DEDICATED CIRCUIT. PAINT WITH 2 COATS OF FIRE RESISTIVE PAINT.
	DUCT SMOKE DETECTOR. 1-SUPPLY AIR DUCT. 1-RETURN AIR DUCT, SUPPLIED AND INSTALLED BY FIRE ALARM CONTRACTOR. ELECTRICAL CONTRACTOR TO WIRE THE DUCT SMOKE DETECTORS TO SHUT DOWN THE HVAC UNIT IN THE EVENT EITHER THE SUPPLY OR THE RETURN DUCT SMOKE DETECTOR GOES INTO ALARM. PROVIDE REMOTE TEST STATION IN AN ACCESSIBLE LOCATION, MOUNTED BELOW UNIT AT 48" A.F.F.
	FIRE ALARM PULL STATION MOUNT 48" AFF.
	WALL MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL HORN STROBE DEVICE. MOUNT 80" A.F.F. 75cd INDICATES 75 CANDELAS
	CEILING MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL HORN STROBE DEVICE. MOUNT 80" A.F.F. 75cd INDICATES 75 CANDELAS
	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR.
	CEILING MOUNTED FIRE ALARM HEAT DETECTOR.
	CEILING MOUNTED FIRE ALARM VISUAL ONLY STROBE DEVICE. MOUNT 80" A.F.F.
	FIRE ALARM TAMPER SWITCH.
	FIRE ALARM FLOW SWITCH.
	FIRE ALARM CONTROL PANEL, MOUNT TOP 6'-0" A.F.F. PROVIDE TWO DEDICATED PHONE LINES FOR FIRE ALARM CONTROL PANEL.
	REMOTE ANNUNCIATOR PANEL - FIRE ALARM, MOUNT TOP 6'-0" A.F.F.

## ELECTRICAL LEGEND CONT.

	DOOR HOLDER - OPERATED THROUGH FIRE ALARM SYSTEM. DOORS REMAIN OPEN UNTIL SMOKE IS DETECTED BY SMOKE DETECTORS ADJACENT TO THE DOORS OR LOSS OF POWER.
	SECURITY SYSTEM CARDREADER.
	SECURITY SYSTEM KEYPAD.
	SECURITY SYSTEM CAMERA.
	CLOCK: CLOCK SYSTEM SHALL BE PRIMEX OR EQUAL AS FOLLOWS: TRANSMITTER PRIMEX 14000 OR EQUAL, 1 WATT MINIMUM WITH ATTACHED INTERNAL ANTENNA CLOCKS PRIMEX 14155 OR EQUAL, ANALOG, 12.5" DIAMETER, BLACK, 5 YEAR MAINTENANCE FREE BATTERY OPERATED
	PA SPEAKER. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
	EXTERIOR PA SPEAKER. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

## ELECTRICAL ABBREVIATIONS

A	AMPERES	FWE	FURNISHED WITH EQUIPMENT	N.C.	NORMALLY CLOSED
AC	ALTERNATING CURRENT	G	GROUNDING CONDUCTOR	N.I.C.	NOT IN CONTRACT
AF	ARC FAULT	GFI	GROUND FAULT INTERRUPTER	N.O.	NORMALLY OPEN
A.F.F.	ABOVE FINISHED FLOOR	HP	HORSEPOWER	NEC	NATIONAL ELECTRIC CODE
AWG	AMERICAN WIRE GAUGE	JB	JUNCTION BOX	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	KCM	THOUSANDS OF CIRCULAR MILS	PH	PHASE
DC	DIRECT CURRENT	KV	KILOVOLTS	TYP.	TYPICAL
DISC	DISCONNECT	KVA	KILOVOLT-AMPERES	V	VOLT
DWG.	DRAWING	KW	KILOWATTS	W	WATT
ELEC.	ELECTRICAL/ELECTRIC	LTG	LIGHTING	WP	WEATHERPROOF
EWC	ELECTRIC WATER COOLER	N	NEUTRAL CONDUCTOR	WPC	"CLOSED WHILE IN USE" TYPE WEATHERPROOF COVER

## FIRE ALARM SYSTEM NOTES

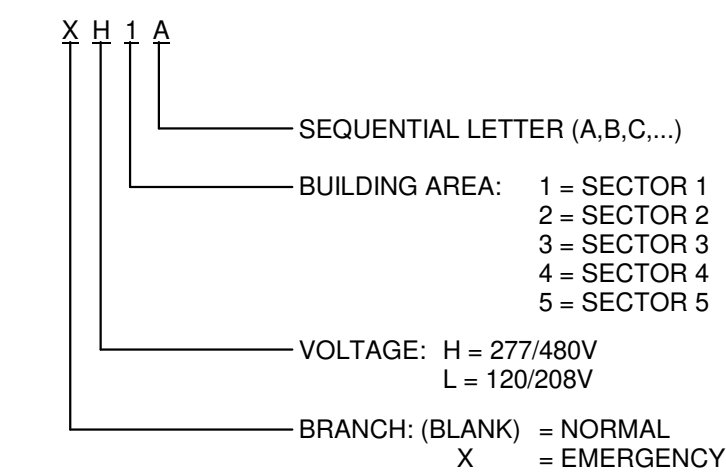
- A) FURNISH AND INSTALL A COMPLETE ADDRESSABLE FIRE DETECTION AND EVACUATION SYSTEM. THE ENTIRE INSTALLATION SHALL CONFORM TO THE APPLICABLE SECTIONS OF NFPA-72, NATIONAL FIRE ALARM CODE, NFPA-101 LIFE SAFETY CODE, N.E.C. ARTICLE 760, THE AMERICANS WITH DISABILITIES ACT, AND LOCAL AUTHORITIES HAVING JURISDICTION. SUBSTITUTES FOR APPROVAL MUST MEET THE COMPLETE FUNCTIONALITY REQUIREMENTS AS SET FORTH IN THESE SPECIFICATIONS.
- B) DUE TO THE NATURE OF FIRE MARSHALL ACTIONS, INCLUDE AN ALLOWANCE OF AN ADDITIONAL 10% OF THE ORIGINAL JOB A/V DEVICE QUANTITIES TO BE INSTALLED AT THE DISCRETION OF THE LOCAL FIRE MARSHALL.
- THE FIRE ALARM EQUIPMENT SUPPLIER SHALL BE AN ALARM SYSTEMS CONTRACTOR LICENSED BY THE STATE OF TENNESSEE AND SHALL INCLUDE A COPY OF THE LICENSE IN THE EQUIPMENT SUBMISSIONS. THE CONTRACTOR SHALL HAVE NICET CERTIFIED EMPLOYEES FOR THE SALE, SUPERVISION AND FINAL TESTING OF THE EQUIPMENT AND SHALL INCLUDE A COPY OF THE CERTIFICATE OF AT LEAST ONE EMPLOYEE IN THE EQUIPMENT SUBMISSIONS.
- THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE NEED FOR ADDITIONAL CABINETS, BATTERIES, POWER SUPPLIES, PROGRAMMING, AND ANY ADDITIONAL HARDWARE OR SOFTWARE FOR A COMPLETE INSTALLATION AND EXPANSION. INCLUDE ALL COST IN ORIGINAL BID.
- SUBMISSIONS:
  - COMPLETE DESCRIPTIVE DATA INCLUDING U.L. LISTING FOR ALL COMPONENTS.
  - COMPLETE CAD DRAWINGS OF THE PROPOSED SYSTEM SHOWING CONDUIT LAYOUT, WIRE COUNT AND DEVICE LOCATIONS.
- ALL FIRE ALARM SYSTEM WIRING SHALL REMAIN SEPARATE FROM OTHER BUILDING SYSTEMS WIRING AND SHALL BE IN CONDUIT. ALL JUNCTION BOXES SHALL BE SPRAYED RED AND LABELED "FIRE ALARM". WIRING COLOR SHALL BE MAINTAINED THROUGHOUT THE INSTALLATION.
- TESTING:
  - CERTIFIED TECHNICAL REPRESENTATIVE IN THE PRESENCE OF THE OWNERS REPRESENTATIVE. UPON COMPLETION OF A SUCCESSFUL TEST, THE FIRE ALARM CONTRACTOR SHALL VERIFY IN WRITING TO THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR.
  - THE FOLLOWING TEST SHALL BE PERFORMED BY THE FIRE ALARM MANUFACTURER'S AUTHORIZED REPRESENTATIVE. EACH AND EVERY DEVICE SHALL BE TESTED FOR ITS INTENDED FUNCTION. VERIFY THAT EACH DEVICE IS LOCATED IN ITS APPROPRIATE LOCATION. WRITTEN VERIFICATION OF THIS TEST SHALL BE PROVIDED TO THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR. THIS TEST SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 72.
- WARRANTY:

THE EQUIPMENT AND WIRING SHALL BE WARRANTED TO BE FREE FROM ELECTRICAL AND MECHANICAL DEFECTS FOR A PERIOD OF ONE (1) YEAR COMMENCING WITH START-UP AND OWNERS BENEFICIAL USE OF THE COMPLETED SYSTEM. WARRANTY SHALL INCLUDE ALL LABOR/TRAVEL TIME AND PARTS.
- MONITORING:

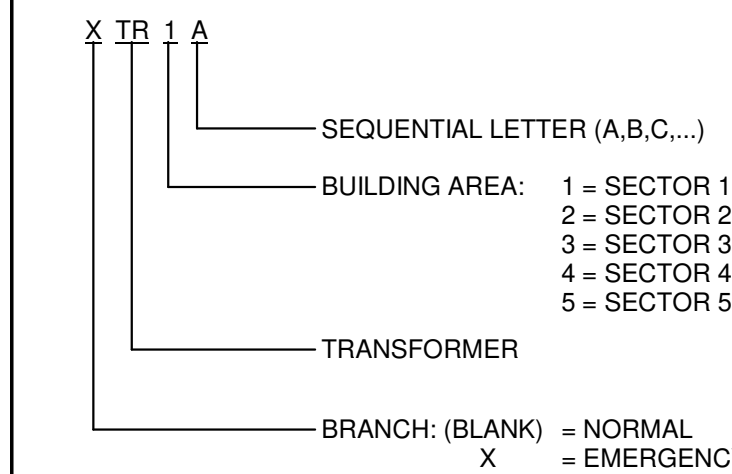
INCLUDE IN THE BID THE COST OF ONE YEAR OF MONITORING OF THE FIRE ALARM SYSTEM BY A U.L. APPROVED MONITORING COMPANY.
- CERTIFICATION:

PROVIDE U.L. THIRD PARTY CERTIFICATION OF ENTIRE INSTALLED SYSTEM, PER AUTHORITY HAVING JURISDICTION'S CODE REQUIREMENTS.

## PANELBOARD NAMING



## TRANSFORMER NAMING



## GENERAL ELECTRICAL NOTES

- ELECTRICAL DRAWINGS ARE PARTIALLY DIAGRAMMATIC. IN THE EVENT THAT THERE IS A DISCREPANCY OR THERE ARE ITEMS THAT ARE UNCLEAR, IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND HVAC DRAWINGS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL AND ARCHITECTURAL DETAILS, LOCATIONS OF DUCTS, PIPES AND STRUCTURAL STEEL. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL STEEL OR OTHER SYSTEMS. LOCATE LIGHTING SYMMETRICALLY IN PROPER RELATION TO FINISHED AREAS EXCEPT WHERE DIMENSIONED ON THE DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS.
- SCOPE: FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL WORK INDICATED ON DRAWINGS, AS SPECIFIED HEREIN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL STATE, AND CITY CODES.
- PROVIDE ADDITIONAL SUPPORTS FOR SWITCHES, PANELBOARDS, RACEWAYS, TRANSFORMERS, CABLE TRAYS AND OTHER ELECTRICAL EQUIPMENT WHERE THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING. ALL OTHER SUPPORTS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- A NUMERAL BESIDE A BRANCH CIRCUIT OUTLET ON WIRING PLANS INDICATES PANELBOARD BRANCH CIRCUIT CONNECTION. A LOWER CASE LETTER BESIDE AN OUTLET INDICATES THE SWITCH LEG CONNECTION WHERE OUTLETS ARE LOCALLY SWITCHED.
- SYMBOLS IN THE LEGENDS ARE APPLICABLE GENERALLY. FOR EXACT REQUIREMENTS REFER TO THE SCHEDULES, LAYOUTS, DETAILS AND SPECIFICATIONS SINCE THE APPEARANCE OF A PARTICULAR SYMBOL IN THE LEGEND DOES NOT NECESSARILY IMPLY THAT THE ITEM IS INCLUDED IN THE CONTRACT.
- MOUNT GROUPED DEVICES IN A SINGLE CONTINUOUS GANG BOX. USE PARTITIONS WHERE VOLTAGE BETWEEN EXPOSED LIVE PARTS OF ADJACENT SWITCHES MAY EXCEED 300 VOLTS.
- VERIFY CEILING SUSPENSION SYSTEMS IN THE VARIOUS AREAS AND PROVIDE THE PROPER MOUNTING ACCESSORIES, TRIMS, ETC. TO SUIT THE PARTICULAR AREA.
- PROVIDE SEAL FITTINGS IN CONDUITS THAT ENTER CONDITIONED AREA FROM NON-CONDITIONED AREAS.
- ANY CONDUIT AND BOXES FOR HVAC CONTROL WIRING IS INCLUDED IN THIS SCOPE OF WORK. SEE MECHANICAL PLANS FOR LOCATIONS, TYPE AND QUANTITY OF CONTROL DEVICES.
- ALL CONDUCTORS ARE COPPER. THHN/THWN 600 VOLT INSULATION. USE SOLID CONDUCTORS FOR WIRE SIZES #10 AWG AND SMALLER. USE STRANDED FOR WIRE NO. 8 AWG AND LARGER. MINIMUM WIRE SIZE IS #12 AWG. CONDUIT IS EMT (1/2" MINIMUM) WITH COMPRESSION FITTINGS UNLESS OTHERWISE NOTED. NO "NM" & "MC" CABLE ALLOWED. MULTIWIRE BRANCH CIRCUITS SHALL NOT BE USED. INSTALL A SEPARATE, GROUNDED CONDUCTOR (NEUTRAL) FOR EACH CIRCUIT.
- MAINTENANCE MANUALS AND INSTRUCTIONS: FURNISH THREE (3) SETS OF OPERATING INSTRUCTIONS FOR ANY ELECTRICAL EQUIPMENT INSTALLED.
- ALL ELECTRICAL EQUIPMENT AND INSTALLATION WORK SHALL HAVE A ONE YEAR (1) WARRANTY. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP SHALL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR THE PERIOD OF THE WARRANTY.
- ANY CONDUIT AND/OR CABLE TRAY PENETRATIONS THROUGH ANY FIRE WALL OR FLOOR SHALL BE FIRESTOPPED EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL OR FLOOR THAT THEY PASS THROUGH. USE ONLY UL APPROVED METHODS AND ASSEMBLIES. RECEPTACLES LOCATED ON OPPOSITE SIDES OF A FIRE BARRIER SHALL BE SEPERATED BY A MINIMUM HORIZONTAL DISTANCE OF 20".
- PERMITS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, FEES INSPECTIONS, AND POWER COMPANY AID TO COMPLETE WORK SHOWN. INCLUDE ALL POWER COMPANY COSTS IN BID.
- CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR ALL BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT AS FOLLOWS:

PHASE	120/208 VOLT	480/277 VOLT
A	BLACK	BROWN
B	RED	ORANGE
C	BLUE	YELLOW
NEUTRAL	WHITE	NATURAL GREY
GROUND	GREEN	GREEN
- CUTTING AND PATCHING: PROVIDE ALL CUTTING REQUIRED TO DO THE WORK. DO NOT CUT ANY STRUCTURAL ELEMENT WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND MATCHING APPEARANCE OF EXISTING CONSTRUCTION. DO NOT CUT ANY STRUCTURAL ELEMENT WITHOUT APPROVAL.
- GROUNDING: AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 250. INSTALL A SEPARATE GROUNDING CONDUCTOR IN SAME CONDUIT AS PHASE AND NEUTRAL CONDUCTOR FOR ALL BRANCHES AND FEEDERS UNLESS OTHERWISE NOTED.
- WIRING DEVICES AND PLATES: SWITCHES SHALL BE HUBBELL OR LEVITON 20A 125VOLT AC COMMERCIAL SPECIFICATION GRADE. COLOR GRAY UNLESS NOTED OTHERWISE. USE STEEL COVER PLATES IN UNFINISHED AREAS AND MATCHING NYLON COVER PLATES IN FINISHED AREAS. ORANGE COLORED RECEPTACLES SHALL BE USED FOR THE ISOLATED GROUND "IG" RECEPTACLES.
- SAFETY SWITCHES: USE HEAVY DUTY TYPE FUSIBLE OR NON-FUSIBLE AS REQUIRED. NEMA TYPE 1 INDOORS AND NEMA TYPE 3R FOR OUTDOORS. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL WHERE SHOWN OR REQUIRED BY CODE.
- FUSES: USE DUAL ELEMENT, CURRENT LIMITING, TIME DELAY TYPE OR AS SPECIFIED BY EQUIPMENT SUPPLIER.
- PANELBOARDS: USE PANELBOARDS WITH BOLT ON TYPE BREAKERS ONLY. PANELBOARDS SHALL HAVE SEPARATE NEUTRAL AND GROUND BUSES. PANELBOARDS SHALL BE 20" WIDE EQUIVALENT TO SQUARE D "NQDD" OR I LINE UNLESS OTHERWISE SPECIFIED. PROVIDE TYPED DIRECTORY CARDS FOR EACH PANELBOARD INSTALLED.
- COORDINATION: COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND LOCAL UTILITY COMPANY. COORDINATE METERING REQUIREMENTS WITH LOCAL ELECTRICAL UTILITY COMPANY.
- EQUIPMENT: CONNECT ALL ELECTRICALLY OPERATED EQUIPMENT INCLUDING HVAC. USE NEMA 3R DEVICES OUTDOORS. VERIFY LOADS AND LOCATIONS OF EQUIPMENT BEFORE CONNECTION. SIZE BREAKERS, DISCONNECTS, AND FUSES ACCORDING TO THE EQUIPMENT NAMEPLATE. SIZE WIRE ACCORDING TO THE NEC. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND OTHER TRADES AND SHALL BE RESPONSIBLE FOR MODIFYING THE CONNECTIONS WIRE, DISCONNECTS, BREAKERS, ETC. SHOWN ON THE DRAWINGS IN ORDER TO MAKE A COMPLETE INSTALLATION AND TO SATISFY THE MANUFACTURER'S REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS TO COMPLETE THE INSTALLATION.
- RECORD DRAWINGS: MAINTAIN A RECORD SET OF ALL CHANGES DURING CONSTRUCTION. RECORD CHANGES ON A CLEAN SET OF CONTRACT CONSTRUCTION DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.
- IDENTIFICATION: IDENTIFY ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT INSTALLED ON THE PROJECT. EXAMPLES INCLUDE PANELBOARDS, MOTOR STARTERS, DISCONNECTS, AND CONTROL PANELS. IDENTIFY WITH PERMANENT PLASTIC NAMEPLATES.
- SUBMITTALS: UNLESS INSTRUCTED OTHERWISE THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FOUR (4) SETS OF SHOP DRAWINGS ON MAJOR PIECES OF ELECTRICAL EQUIPMENT. SUCH EQUIPMENT INCLUDES PANELBOARDS, LIGHTING, SWITCHGEAR, SECONDARY SYSTEMS, MOTOR CONTROLS, ETC. APPROVAL FROM THE ENGINEER OF EQUIPMENT MUST BE OBTAINED BEFORE PURCHASE AND INSTALLATION OF ELECTRICAL EQUIPMENT.
- TEMPORARY POWER AND LIGHTING: ARRANGE FOR TEMPORARY ELECTRIC SERVICE AS REQUIRED FOR THE ENTIRE PROJECT DURING CONSTRUCTION. PROVIDE A MINIMUM OF ONE DUPLEX GFCI OUTLET FOR EACH 500 SQUARE FEET OF FLOOR AREA. ARRANGE FOR PERMANENT ELECTRICAL SERVICE AND FOR ORDERLY TRANSFER BETWEEN TEMPORARY AND PERMANENT ELECTRICAL SERVICES. PROVIDE GFCI PROTECTION AND LAMP GUARDS AS REQUIRED BY THE NEC.

MINIMUM TEMPORARY LIGHTING LEVELS:

ONE LAMP HOLDER FOR EACH 150 SQUARE FEET OF FLOOR SPACE. MINIMUM ONE PER ROOM.  
ONE LAMP HOLDER AT EACH STAIR LANDING AND FLOOR.  
ONE LAMP HOLDER AT 20" CENTERS IN INTERIOR CORRIDORS. MINIMUM ONE PER CORRIDOR.

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### PROJECT INFORMATION

PROJECT:

## CLAYTON, ADDISON AL MANUFACTURING FACILITY (944)

PROJECT ADDRESS:

17921 CR 41  
ADDISON, AL 35540

PROJECT NO.: 180789-06

### ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

### REVISION INFORMATION

NO.	DATE	DESCRIPTION

### KEY PLAN

### SHEET INFORMATION

SHEET ISSUED: 09/05/2019

DESIGNED BY: JCH

DRAWN BY: JCH

REVIEWED BY: SWW

SHEET TITLE:

## ELECTRICAL LEGEND AND GENERAL NOTES

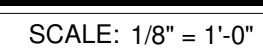
SHEET NO.:

# E001



1. SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.

1. TWO -1" CONDUITS RUN UNDER FLOOR TO NEAREST WALL AND STUBBED ABOVE CEILING. ONE CONDUIT FOR POWER AND ONE CONDUIT FOR DATA.
2. POWER FOR OVERHEAD PROJECTOR. PROJECTOR PROVIDED BY OWNER. COORDINATE WITH OWNER FOR FINAL PLACEMENT.
3. CONDUIT RUN UNDER TABLE TO NEAREST COLUMN AND STUBBED AT CEILING.
4. TWO -1" CONDUITS WITH PULL STRING RUN UNDER TABLE TO STUB POINT. ONE CONDUIT FOR DATA AND ONE FOR POWER.

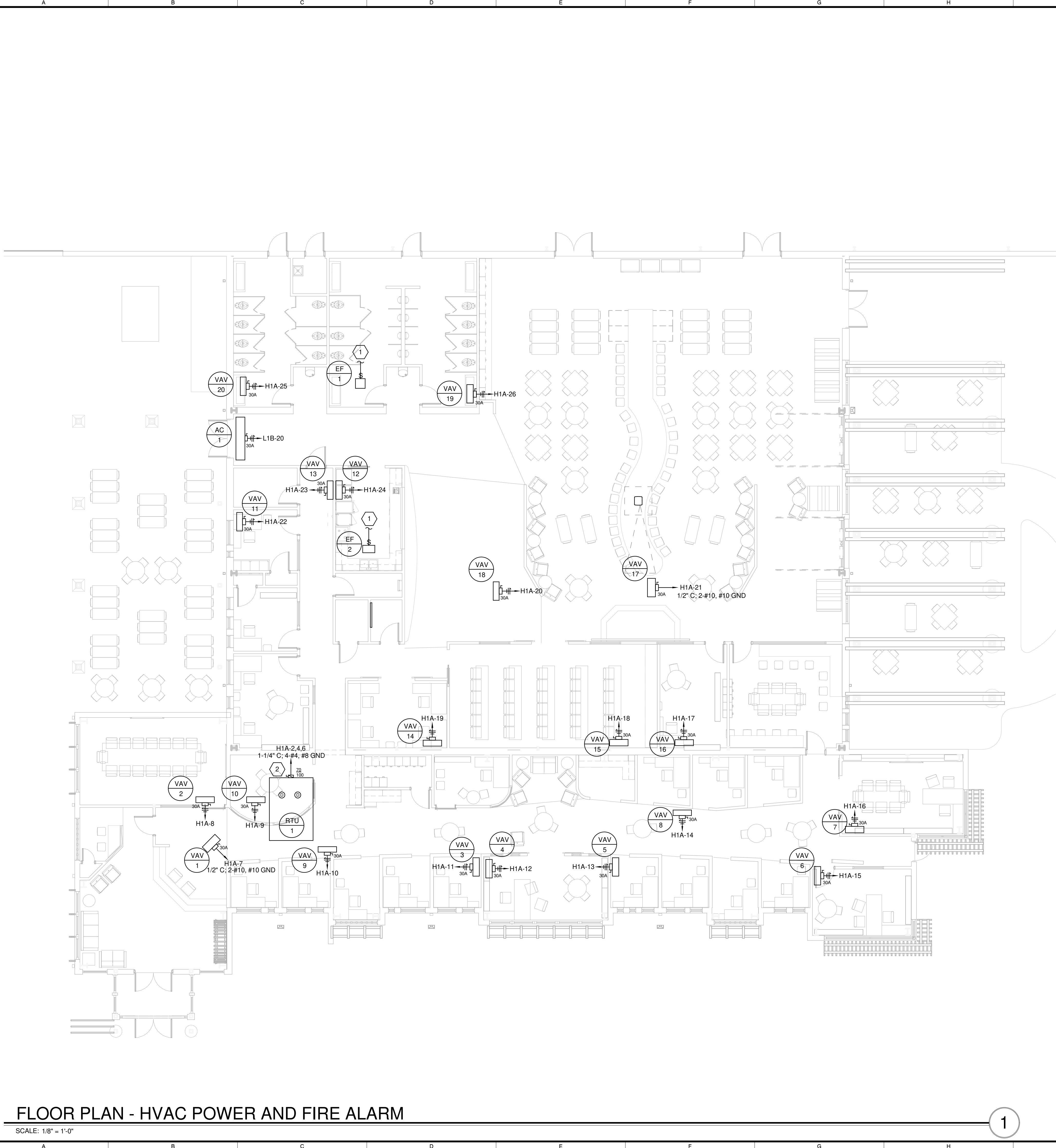


E101

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FLOOR PLAN - HVAC POWER AND FIRE ALARM

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

1

GENERAL SHEET NOTES

- SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.

KEYED SHEET NOTES

- CONNECT TO NEAREST 120-VOLT LIGHTING CIRCUIT.
- FUSE PER MANUFACTURER NAMEPLATE DATA.

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OR CONFLICTS WHICH ARE ALLEGED.

PROJECT INFORMATION

PROJECT:

CLAYTON, ADDISON AL  
MANUFACTURING  
FACILITY (944)

PROJECT ADDRESS:

17921 CR 41  
ADDISON, AL 35540

PROJECT NO.: 180789-06

ACTIVE DESIGN PHASE

☐ FOR REVIEW ONLY

☐ FOR PERMITTING ONLY

☐ SCHEMATIC DESIGN

☐ DESIGN DEVELOPMENT

☐ CONSTRUCTION BIDDING

☒ CONSTRUCTION DOCUMENTS

☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 09/05/2019

DESIGNED BY: JCH

DRAWN BY: JCH

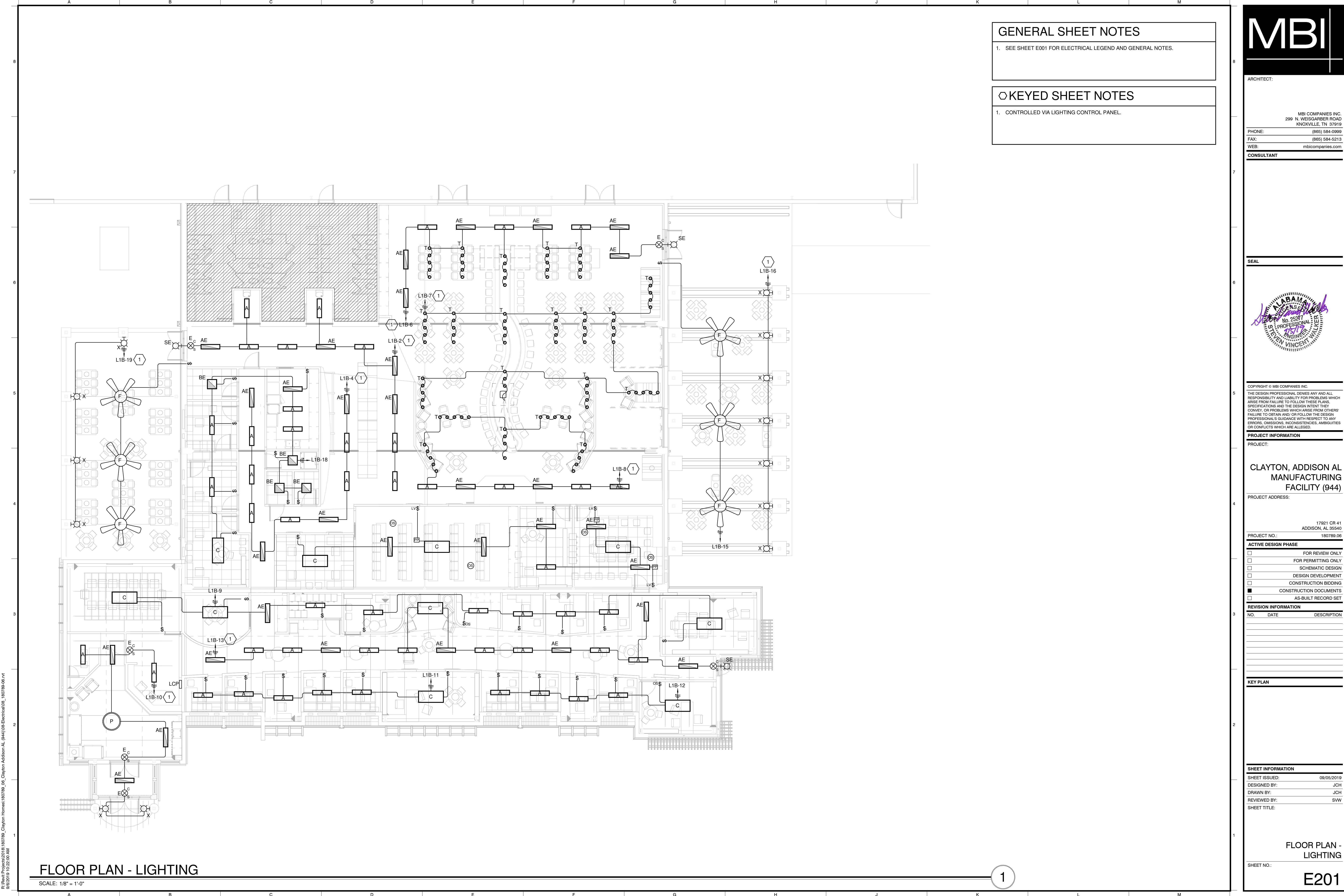
REVIEWED BY: SWW

SHEET TITLE:

FLOOR PLAN - HVAC  
POWER AND FIRE  
ALARM

SHEET NO.: E102





GENERAL SHEET NOTES

1. SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.

KEYED SHEET NOTES

1. CONTROLLED VIA LIGHTING CONTROL PANEL.

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ADDISON, AL 35540  
PROJECT NO.: 180789.06

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REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 09/05/2019  
DESIGNED BY: JCH  
DRAWN BY: JCH  
REVIEWED BY: SWW  
SHEET TITLE:

FLOOR PLAN -  
LIGHTING

SHEET NO.:

E201

FLOOR PLAN - LIGHTING

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

1

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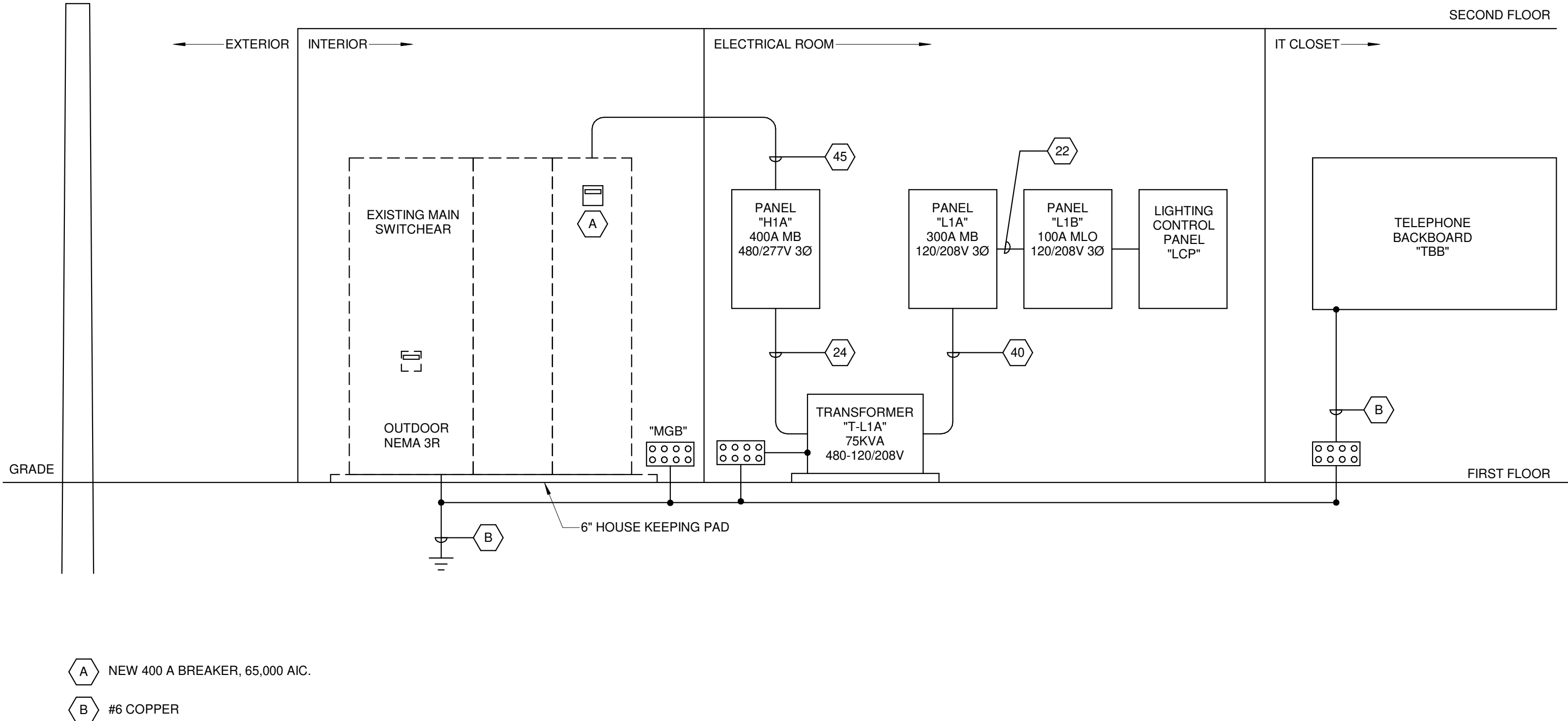


CONDUIT AND WIRE DESIGNATION SCHEDULE

#	WIRE/BKR MAX AMPS	CONDUIT AND WIRE DESCRIPTION	#	WIRE/BKR MAX AMPS	CONDUIT AND WIRE DESCRIPTION
1	20	2#12, 3/4"C	32	200	2#3/0, 1#6G, 2"C
2	20	2#12, 1#12G, 3/4"C	33	200	3#3/0, 1#6G, 2"C
3	20	3#12, 1#12G, 3/4"C	34	200	4#3/0, 1#6G, 2 1/2"C
4	20	4#12, 1#12G, 3/4"C	35	230	2#4/0, 1#4G, 2"C
5	30	2#10, 1#10G, 3/4"C	36	230	5#4/0, 1#4G, 3"C
6	30	3#10, 1#10G, 3/4"C	37	230	4#4/0, 1#4G, 2-1/2"C
7	30	4#10, 1#10G, 3/4"C	38	255	3#250KCM, 1#4G, 2-1/2"C
8	40	2#8, 1#10G, 3/4"C	39	255	4#250KCM, 1#4G, 2-1/2"C
9	40	3#8, 1#10G, 3/4"C	40	285	3#300KCM, 1#4G, 3"C
10	40	4#8, 1#10G, 3/4"C	41	285	4#300KCM, 1#4G, 3"C
11	55	2#6, 1#10G, 3/4"C	42	310	3#350KCM, 1#3G, 2-1/2"C
12	55	3#6, 1#10G, 3/4"C	43	310	4#350KCM, 1#3G, 3"C
13	55	4#6, 1#10G, 1"C	44	380	3#500KCM, 1#3G, 3"C
14	70	2#4, 1#8G, 1"C	45	380	4#500KCM, 1#3G, 3-1/2"C
15	70	3#4, 1#8G, 1-1/4"C	46	420	4#600KCM, 1#3G, 4"C
16	70	4#4, 1#8G, 1-1/4"C	47	510	2 SETS, EA: 4#250KCM, 1#1G, 2-1/2"C
17	85	2#3, 1#8G, 1-1/4"C	48	620	2 SETS, EA: 4#350KCM, 1#1/0G, 3"C
18	85	3#3, 1#8G, 1-1/4"C	49	760	2 SETS, EA: 4#500KCM, 1#1/0G, 3-1/2"C
19	85	4#3, 1#8G, 1-1/4"C	50	840	2 SETS, EA: 4#600KCM, 1#1/0G, 4"C
20	95	2#2, 1#8G, 1-1/4"C	51	840	2 SETS, EA: 5#600KCM, 1#1/0G, 4"C
21	95	3#2, 1#8G, 1-1/4"C	52	1005	3 SETS, EA: 4#400KCM, 1#3/0G, 3"C
22	95	4#2, 1#8G, 1-1/4"C	53	1140	3 SETS, EA: 4#500KCM, 1#3/0G, 4"C
23	130	2#1, 1#6G, 1-1/4"C	54	1240	4 SETS, EA: 4#350KCM, 1#4/0G, 3"C
24	130	3#1, 1#6G, 1-1/4"C	55	1675	5 SETS, EA: 4#400KCM, 1#250KCMG, 3"C
25	130	4#1, 1#6G, 1-1/2"C	56	1900	5 SETS, EA: 4#500KCM, 1#250KCMG, 3-1/2"C
26	150	2#1/0, 1#6G, 1-1/2"C	57	2010	6 SETS, EA: 4#400KCM, 4"C; AND 2 - SPARE 4"C
27	150	3#1/0, 1#6G, 1-1/2"C	58	2280	6 SETS, EA: 4#500KCM, 1#350KCMG, 3-1/2"C
28	150	4#1/0, 1#6G, 2"C	59	2660	7 SETS, EA: 4#500KCM, 4"C AND 3 - SPARE 4"C
29	175	2#2/0, 1#6G, 1-1/2"C	60	3040	8 SETS, EA: 4#500KCM, 1#500KCMG, 3-1/2"C
30	175	5#2/0, 1#6G, 2-1/2"C	61	4180	11 SETS, EA: 4#500KCM, 1#600KCMG, 3-1/2"C
31	175	4#2/0, 1#6G, 2"C			

CONDUIT SIZE BASED ON THHN/THWN 40% FILL CALCULATION  
WIRE SIZE BASED ON NEC 110-14C WITH 60°C AMPACITY TABLES FOR 20A THRU 100 AMPS  
AND 75°C AMPACITY TABLES FOR VALUES > 100 AMPS  
ALL CONDUCTORS IN THIS SCHEDULE ARE COPPER (Cu)

NOTE: IN GENERAL, THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT BREAKERS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 WIRE U.O.N. PRIOR TO ROUGH-IN. CONTRACTOR SHALL COORDINATE BREAKER AND WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.  
UNLESS NOTED OTHERWISE ALL 20A., 1P. BREAKERS TO UTILIZE #12 CONDUCTORS. EXCEPT WHERE BRANCH CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTORS TO BE #10 AND OVER 175 FEET LINEAR FEET CONDUCTORS TO BE #8.



- A NEW 400 A BREAKER, 65,000 AIC.
- B #6 COPPER

RISER DIAGRAM

SCALE: 12" = 1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	LAMP TYPE	LAMP NO.	WATTS	VOLTAGE	MOUNTING	HEIGHT	MANUFACTURER	MODEL	COMMENTS
A	LED		36	120	SUSPENDED	9' 0"	PEERLESS	VMM9-LLP-4FT-MSL4-80CRI-35K-ID1100LM F-60/40-DARK-ZT-120-SCT-F1/24A-C110	
AE	LED		36	120	SUSPENDED	9' 0"	PEERLESS	VMM9-LLP-4FT-MSL4-80CRI-35K-ID1100LM F-60/40-DARK-ZT-120-SCT--1E10WLCP-F1/ 24A-C110	BATTERY BACK-UP
BE	LED		32	120	RECESSED	CEILING	LITHONIA	2BLT2-40L-ADSM-EZ1-LP835-EL7L	BATTERY BACK-UP
C	LED			120	SUSPENDED	9' 0"	WINONA	CANVIS-HZM-BSL-ONG-23WIDE-18HIGH-PM -OLEDA1-4300LM-35K-MVOLT-DIMR	
E	LED	-	6	120	SURFACE	CEILING	LITHONIA	LHQM-S-W-3-R-HOR0	EXIT SIGN W/BATTERY BACK-UP
F	LED		31	120	SUSPENDED	9' 0"	BIG ASS FANS	FR150A-UO-F1-0-3H03-02-0258-258P010	FINAL FINISH TO BE SPECIFIED BY OWNER/ARCHITECT
P	LED		54	120	SUSPENDED	9' 0"	WINONA	WFP61603-36DIA-POLDI-LDP1A-40K-MVOL T-ID-OAE-BA	
SE	LED		14	120	WALL	9' 0"	LITHONIA	WSR-LED-P1-40K-SR2-MVOLT-E10WH-DOB XD	BATTERY BACK-UP
T	LED		30	120	SUSPENDED	9' 0"	STONE	DA202-FR-SN-D6-R	NOTE 5
X	LED		14	120	WALL	9' 0"	LITHONIA	OLLWU-LED-P1-40K-MVOLT-DOB	

- NOTES:  
1. FURNISH AND INSTALL LAMPS FOR ALL FIXTURES.  
2. VERIFY ALL CEILING TYPES BEFORE STARTING ANY WORK. SEE ARCHITECTS REFLECTED CEILING PLAN FOR CEILING TYPES.  
3. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF ALL LIGHTING FIXTURES.  
4. PROVIDE ALL NECESSARY EQUIPMENT FOR LOW VOLTAGE LIGHTING AND CONTROLS, SUCH ITEMS WOULD INCLUDE TRANSFORMERS, POWER PACKS, AND CABLING.  
5. TO BE MOUNTED ON MSRL96-SN-96" STRAIGHT TO BE BENT PER DRAWINGS.

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ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 09/05/2019  
DESIGNED BY: JCH  
DRAWN BY: JCH  
REVIEWED BY: SWW  
SHEET TITLE:

RISER DIAGRAM AND  
LIGHTING FIXTURE  
SCHEDULE

SHEET NO.:

E401



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9/6/2018 10:22:03 AM

Branch Panel: H1A													
Location: ELEC. ROOM 137				Volts: 480/277 3P				A.I.C. Rating: 65,000					
Supply From:				Phases: 3				Mains Type: MAIN BREAKER					
Mounting: Surface				Wires: 4				Mains Rating: 400 A					
Enclosure: Type 1								MCB Rating: 400 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TVSS	30 A	3	0 VA	1876...					3	80 A	H - HVAC	2
3	--	--	--			0 VA	1876...			--	--	--	4
5	--	--	--					0 VA	1876...	--	--	--	6
7	H - HVAC	25 A	1	5500...	3000...					1	15 A	H - HVAC	8
9	H - HVAC	20 A	1			1000...	1000...			1	20 A	H - HVAC	10
11	H - HVAC	20 A	1					4500...	3500...	1	15 A	H - HVAC	12
13	H - HVAC	15 A	1	3500...	2000...					1	15 A	H - HVAC	14
15	H - HVAC	15 A	1			3500...	3500...			1	15 A	H - HVAC	16
17	H - HVAC	15 A	1					3000...	4000...	1	15 A	H - HVAC	18
19	H - HVAC	15 A	1	1000...	2000...					1	15 A	H - VAV-18	20
21	H - VAV-17	30 A	1			8000...	2500...			1	15 A	H - VAV-11	22
23	H - VAV-13	15 A	1					1500...	1000...	1	15 A	H - VAV-12	24
25	H - VAV-20	15 A	1	2000...	4500...					1	20 A	H - VAV-19	26
27	SPARE	30 A	1			0 VA	0 VA			1	30 A	SPARE	28
29	SPARE	30 A	1					0 VA	0 VA	1	30 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	70 A	3	0 VA	2377...					3	125 A	T-L1A	38
39	--	--	--			0 VA	2529...			--	--	--	40
41	--	--	--					0 VA	2445...	--	--	--	42
Total Load:				66046 VA		63562 VA		60724 VA					
Total Amps:				240 A		231 A		219 A					
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
H - HVAC				118004 VA		100.00%		118004 VA					
L - LIGHTING				7767 VA		125.00%		9708 VA		Total Conn. Load: 190331 VA			
R - RECEPTACLE				39540 VA		62.65%		24770 VA		Total Est. Demand: 171248 VA			
E - EQUIPMENT				25020 VA		75.00%		18765 VA		Total Conn. Current: 229 A			
SPEC				336 VA		100.00%		336 VA		Total Est. Demand Current: 206 A			

Branch Panel: L1A													
Location: ELEC. ROOM 137				Volts: 120/208 3P				A.I.C. Rating: 22,000					
Supply From: T-L1A				Phases: 3				Mains Type: MAIN BREAKER					
Mounting: Surface				Wires: 4				Mains Rating: 300 A					
Enclosure: Type 1								MCB Rating: 300 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TVSS	30 A	3	0 VA	540 VA					1	20 A	R - RECEPTACLE	2
3	--	--	--			0 VA	540 VA			1	20 A	R - RECEPTACLE	4
5	--	--	--					0 VA	720 VA	1	20 A	R - RECEPTACLE	6
7	R - RECEPTACLE	20 A	1	180 VA	1000...					1	20 A	R - RECEPTACLE	8
9	R - RECEPTACLE	20 A	1			180 VA	4160...			2	50 A	E - EQUIPMENT	10
11	R - RECEPTACLE	20 A	1					720 VA	4160...	--	--	--	12
13	R - RECEPTACLE	20 A	1	720 VA	720 VA					1	20 A	R - RECEPTACLE	14
15	R - RECEPTACLE	20 A	1			540 VA	900 VA			1	20 A	R - RECEPTACLE	16
17	R - RECEPTACLE	20 A	1					900 VA	900 VA	1	20 A	R - RECEPTACLE	18
19	R - RECEPTACLE	20 A	1	720 VA	180 VA					1	20 A	R - RECEPTACLE	20
21	R - RECEPTACLE	20 A	1			900 VA	1080...			1	20 A	R - RECEPTACLE	22
23	R - RECEPTACLE	20 A	1					1080...	500 VA	1	20 A	R - RECEPTACLE	24
25	R - RECEPTACLE	20 A	1	900 VA	500 VA					1	20 A	R - RECEPTACLE	26
27	R - RECEPTACLE	20 A	1			1080...	1080...			1	20 A	R - RECEPTACLE	28
29	R - RECEPTACLE	20 A	1					1080...	900 VA	1	20 A	R - RECEPTACLE	30
31	R - RECEPTACLE	20 A	1	1080...	1620...					1	20 A	R - RECEPTACLE	32
33	R - RECEPTACLE	20 A	1			540 VA	900 VA			1	20 A	R - RECEPTACLE	34
35	R - RECEPTACLE	20 A	1					720 VA	540 VA	1	20 A	R - RECEPTACLE	36
37	R - RECEPTACLE	20 A	1	720 VA	1000...					1	20 A	R - RECEPTACLE	38
39	R - RECEPTACLE	20 A	1			1620...	1080...			1	20 A	R - RECEPTACLE	40
41	R - RECEPTACLE	20 A	1					540 VA	1080...	1	20 A	R - RECEPTACLE	42
43	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	44
45	R - RECEPTACLE	20 A	1			360 VA	180 VA			1	20 A	R - RECEPTACLE	46
47	R - RECEPTACLE	20 A	1					180 VA	180 VA	1	20 A	R - RECEPTACLE	48
49	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	50
51	R - RECEPTACLE	20 A	1			180 VA	180 VA			1	20 A	R - RECEPTACLE	52
53	R - RECEPTACLE	20 A	1					180 VA	180 VA	1	20 A	R - RECEPTACLE	54
55	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	56
57	R - RECEPTACLE	20 A	1			180 VA	180 VA			1	20 A	R - RECEPTACLE	58
59	R - RECEPTACLE	20 A	1					180 VA	180 VA	1	20 A	R - RECEPTACLE	60
61	R - RECEPTACLE	20 A	1	180 VA	180 VA					1	20 A	R - RECEPTACLE	62
63	R - RECEPTACLE	20 A	1			180 VA	720 VA			1	20 A	R - RECEPTACLE	64
65	R - RECEPTACLE	20 A	1					720 VA	180 VA	1	20 A	R - RECEPTACLE	66
67	R - RECEPTACLE	20 A	1	900 VA	720 VA					1	20 A	R - RECEPTACLE	68
69	R - RECEPTACLE	20 A	1			180 VA	1400...			2	20 A	E - EQUIPMENT	70
71	E - EQUIPMENT	40 A	3					4633...	1400...	--	--	--	72
73	--	--	--	4633...	720 VA					1	20 A	R - RECEPTACLE	74
75	--	--	--		4633...	0 VA				1	20 A	SPARE	76
77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	5484...					3	100 A	PANEL L1B	80
81	SPARE	20 A	1			0 VA	2326...			--	--	--	82
83	SPARE	20 A	1					0 VA	2608...	--	--	--	84
Total Load:				23778 VA		25294 VA		24456 VA					
Total Amps:				198 A		212 A		205 A					
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
H - HVAC				1200 VA		100.00%		1200 VA					
L - LIGHTING				7767 VA		125.00%		9708 VA		Total Conn. Load: 73527 VA			
R - RECEPTACLE				39540 VA		62.65%		24770 VA		Total Est. Demand: 54444 VA			
E - EQUIPMENT				25020 VA		75.00%		18765 VA		Total Conn. Current: 204 A			
SPEC				336 VA		100.00%		336 VA		Total Est. Demand Current: 151 A			
1: PROVIDE 24VAC SHUNT TRIP COIL. SHUNT TRIP ACTIVATED BY FIRE ALARM FLOW SWITCH.													

Branch Panel: L1B													
Location: ELEC. ROOM 137						Volts: 120/208 3P			A.I.C. Rating: 22,000				
Supply From: L1A						Phases: 3			Mains Type: MAIN LUG ONLY				
Mounting: Surface						Wires: 4			Mains Rating: 100 A				
Enclosure: Type 1													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TVSS	30 A	3	0 VA	722 VA					1	20 A	L - LIGHTING	2
3	--	--	--			0 VA	600 VA			1	20 A	L - LIGHTING	4
5	--	--	--					0 VA	802 VA	1	20 A	L - LIGHTING	6
7	L - LIGHTING	20 A	1	680 VA	760 VA					1	20 A	L - LIGHTING	8
9	L - LIGHTING	20 A	1			600 VA	620 VA			1	20 A	L - LIGHTING	10
11	L - LIGHTING	20 A	1					360 VA	300 VA	1	20 A	L - LIGHTING	12
13	L - LIGHTING	20 A	1	962 VA	540 VA					1	20 A	L - LIGHTING	14
15	SPEC	20 A	1			168 VA	140 VA			1	20 A	L - LIGHTING	16
17	SPEC	20 A	1					168 VA	600 VA	1	20 A	L - LIGHTING	18
19	L - LIGHTING	20 A	1	80 VA	1200...					1	20 A	H - AC-1	20
21	SPARE	20 A	1			0 VA	180 VA			1	20 A	R - RECEPTACLE	22
23	R - RECEPTACLE	20 A	1					180 VA	360 VA	1	20 A	R - RECEPTACLE	24
25	R - RECEPTACLE	20 A	1	360 VA	180 VA					1	20 A	R - RECEPTACLE	26
27	R - RECEPTACLE	20 A	1			180 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	FIRE ALARM CONTROL PANEL (NOTE 1)	20 A	1					0 VA	0 VA	1	20 A	LIGHTING CONTROL PANEL	42
Total Load:				5484 VA		2326 VA		2608 VA					
Total Amps:				46 A		19 A		22 A					
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
H - HVAC				1200 VA		100.00%		1200 VA					
L - LIGHTING				7767 VA		125.00%		9708 VA		Total Conn. Load: 10412 VA			
R - RECEPTACLE				1440 VA		100.00%		1440 VA		Total Est. Demand: 12353 VA			
SPEC				336 VA		100.00%		336 VA		Total Conn. Current: 29 A			
										Total Est. Demand Current: 34 A			
1: BREAKER TO BE COLORED RED , PROVIDE LOCK ON TAB.													



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