

BASTROP COUNTY COURTHOUSE

TOWER REPAIRS Bastrop, Texas

OWNER
Bastrop County
804 Pine Street
Bastrop, Texas 78602
Phone: 512.581.7100
Owner Representative: Shawn Harris

ARCHITECT
ARCHITEXAS
Architecture, Planning, and Historic Preservation, Inc.
2900 South Congress Ave., Suite 200
Austin, TX 78704
phone: 512.444.4220

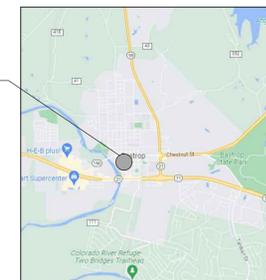
STRUCTURAL ENGINEER
Architectural Engineers Collaborative
3800 N. Lamar Blvd., Suite 330
Austin, TX 78756
phone: 512.472.2111

MEP ENGINEER
DBR Engineering Consultants, Inc.
2500 S Hwy 183, Suite 500
Austin, TX 78744
phone: 512.637.4393

TEXAS HISTORICAL COMMISSION
108 W. 16th St. - Second Floor
Austin, TX 78701
phone: 512.463.6000

AREA MAP

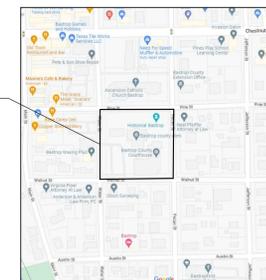
PROJECT LOCATION



MAP COURTESY OF GOOGLE.COM

LOCATOR MAP

SITE LOCATION



MAP COURTESY OF GOOGLE.COM



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BASTROP COUNTY
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REVISION HISTORY

- Issued for Bid June 13, 2023

SEAL



Architexas No. 2250 Date June 13, 2023

Sheet Name COVER SHEET

Sheet Number

GENERAL NOTES

- Existing Conditions:
 - Information contained on these drawings with regard to existing conditions for construction in no way releases the Contractor from the responsibility for verifying completely all field conditions relating to and affecting the execution of the work, as described in these Contract Documents. Cease work, notify Architect, and await instructions if materials or conditions encountered at the site are not as indicated by the Contract Documents.
 - Field verification of existing conditions relating to specific portions of the work shall be undertaken in advance to allow for the timely identification of existing conditions that may affect the scheduled installation of new work as designed and detailed, and to avoid undue and unreasonable delays to the project should such conditions be discovered. Timely identifications of such conditions shall provide for a reasonable period of time during which the Architect will evaluate the conditions and make recommendations for accommodating new work.
 - Assist the Architect in making their evaluations and recommendations by providing in a timely manner, at no additional cost to the Owner, accurate and complete drawings, sketches, and photographs sufficient to clearly describe discrepancies, conflicts, and concealed or otherwise unanticipated existing conditions affecting new construction. Assist the Architect by providing in a timely manner prepared solutions to unanticipated existing conditions.
 - The Architect has endeavored to identify as completely as possible in the drawings and specifications existing items that are required to be removed or otherwise demolished so as to allow the execution of new work. This information is provided for the convenience of the Contractor, and is in no way intended to mean that demolition is limited only to those items specifically identified. Execute demolition work as required to allow the execution of new work.
 - Areas and items indicating limits of work and lines of demarcation are shown for the convenience of the Contractor, and are not to be taken literally. Actual contract limits are to be determined prior to bid openings by field verification.
 - Original elements removed are to be re-installed in their original location, unless noted otherwise.
- Blocking and Framing
 - Some general assumptions have been made on existing blocking, framing, and existing masonry profiles where conditions have not been uncovered. Re-secure existing blocking as necessary and provide new blocking as needed for proper installation of sheet metal roofing and cladding.
- Dimension of original materials:
 - Dimensions indicated in Construction Documents for original materials are approximate and are to be field verified prior to submittal of shop drawings. Match exact sizes and profiles of original elements, unless noted otherwise.
- Sealants
 - Remove existing sealants and replace with specified sealants, typical.
- Photographs
 - Photographs of existing building conditions are included on portions of these drawings. Information contained on these photographs is provided for the convenience of the Contractor. Existing conditions may vary from what these photographs show. It shall be the responsibility of the Contractor to verify field conditions prior to the time of the bid and alert the Architect to any discrepancies between the existing conditions and the photographs.
- Exterior:
 - Existing construction shown to remain shall not be damaged during the demolition process. Provide temporary protection as necessary. If surfaces of wall are damaged, damaged areas shall be repaired with materials to match existing and restore the full structural capacity of the walls.
 - Shoring drawings and associated structural calculations sealed by a Professional Engineer licensed in the State of Texas shall be submitted to the Architect's file and shall not be returned approved to the Contractor. The Contractor is solely responsible for the design and installation of all shoring necessary to accomplish the work.
 - All shoring shall transfer loading directly to existing masonry structure. Shoring shall be designed to support the full anticipated loading with no benefit from the existing structural framing.
 - Where scaffolding is to be placed on existing roof structure, the contractor shall hire an engineer licensed in the State of Texas to verify the load capacity of that structure.

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SYMBOLS LEGEND

	Column Center Lines		Broken Section
	Center Line		Wall Section
	Door Type		Detail Section
	Window Type		Detail Key
	Wall Type		Detail Key
	Room Name and Number		Elevation Key

MATERIALS LEGEND

	Earth/Compact Fill		Rough Wood
	Gravel Fill		Blocking
	Concrete		Finish Wood
	Hollow Clay Tile		Plywood
	Masonry		Rigid Insulation
	Split Face CMU		Thermal Batt Insulation
	Glass		Acoustic Batt Insulation
	Aluminum		Sprayed Insulation
	Steel		Sprayed Fire Insulation
	Sheet Metal		Ceramic Tile
	Existing, Where Noted		Gypsum Board
			Metal Lath and Plaster

ABBREVIATIONS

±	PLUS/MINUS
∅	DIAMETER
A/C	AIR CONDITIONER
ACM	ASBESTOS CONTAINING MATERIAL
AHU	AIR HANDLING UNIT
CABS.	CABINETS
CLG.	CEILING
CONC.	CONCRETE
DN.	DOWN
ELEV.	ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
FIXT.	FIXTURES
FLR.	FLOOR
F.R.	FIRE RATED
GYP.	GYPSONUM
HIST.	HISTORIC
MECH.	MECHANICAL
MISC.	MISCELLANEOUS
MTL.	METAL
OC	ON CENTER
ORIG.	ORIGINAL
QTR.	QUARTER
REF.	REFERENCE
REQ'D	REQUIRED
STRUCT.	STRUCTURAL
T.B.D.	TO BE DETERMINED
TYP.	TYPICAL
U.O.N	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
WD.	WOOD

NOTE: CONTRACTOR SHALL VERIFY WITH ARCHITECT FOR ANY ABBREVIATION NOT LISTED.



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REVISION HISTORY

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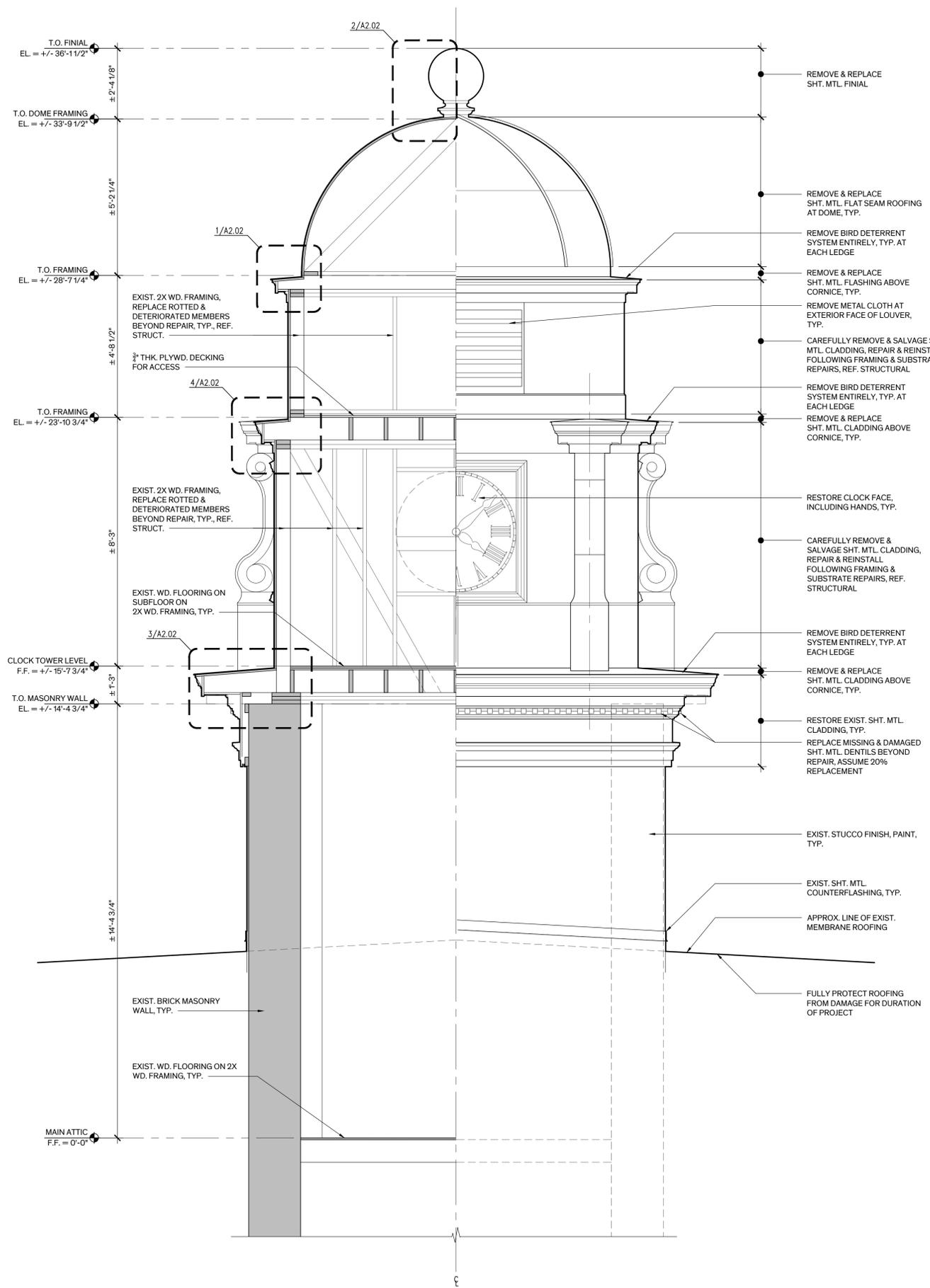
Architexas No. 2250 Date June 13, 2023

Sheet Name Floor Plans, Elevation, and Section

Sheet Number A-2.01

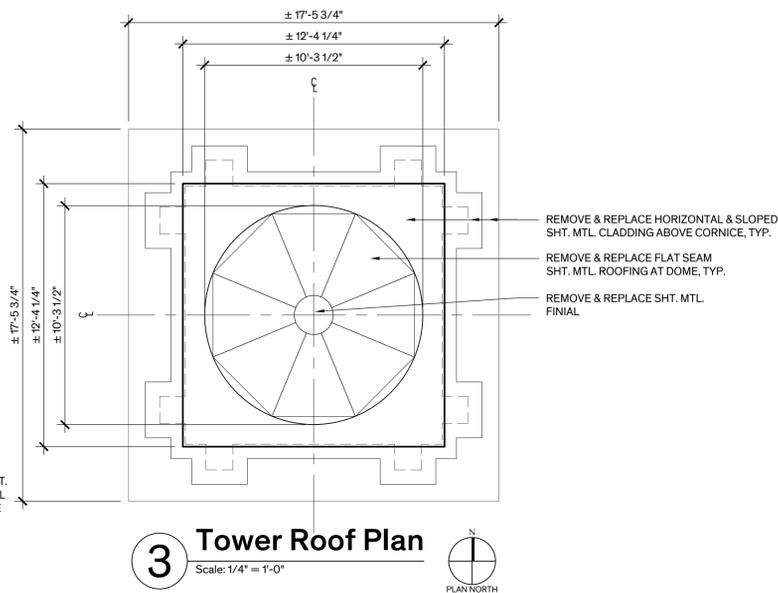
GENERAL NOTES

- TEMPORARY PROTECTION:** FULLY PROTECT EXISTING ROOFING AT MAIN ROOF FROM DAMAGE RESULTING FROM THE WORK OF THIS CONTRACT FOR THE DURATION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE CAUSED BY THEIR ACTIONS AT NO ADDITIONAL COST TO THE OWNER.
- DEMOLITION:**
 - REMOVE SPIKED BIRD DETERRENT SYSTEM ENTIRELY.
 - REMOVE FINIAL, SHEET METAL ROOFING, & SHEET METAL CLADDING AT FLAT & SLOPED SURFACES 100%. RETAIN SAMPLE OF EACH UNIQUE PIECE FOR REPLICATION.
 - CAREFULLY REMOVE REMAINING SHEET METAL CLADDING & SALVAGE FOR REINSTALLATION. NUMBER BACK SIDE OF EACH ELEMENT TO ENSURE IT IS REINSTALLED IN ITS ORIGINAL LOCATION.
 - REMOVE ROTTED & DETERIORATED WOOD SHEATHING.
 - REMOVE & SALVAGE WOOD SHEATHING BOARDS, IN GOOD CONDITION, AS REQUIRED TO REPAIR & OR REPLACE WOOD FRAMING MEMBERS.
 - REMOVE MISCELLANEOUS ABANDONED FASTENERS ON THE EXTERIOR OF THE TOWER ATTACHED OR EMBEDDED IN EXISTING MATERIALS & ARE NOT BEING USED TO FASTEN ELEMENTS TO REMAIN. PATCH HOLES AT REMOVED FASTENERS.
 - REMOVE CLOTH WIRE SCREEN AT EXTERIOR FACE OF LOUVERS, TYP.
- ROUGH CARPENTRY:**
 - REPLACE ROTTED & DETERIORATED WOOD SHEATHING, ASSUME 20% REPLACEMENT AT DOME ROOFING, ASSUME 100% REPLACEMENT AT HORIZONTAL & SLOPED SURFACES, ASSUME 40% REPLACEMENT AT VERTICAL SURFACES.
 - REPAIR & REPLACE DETERIORATED FRAMING MEMBERS, REF. STRUCTURAL. IN ADDITION TO REPAIR/REPLACEMENT NOTED ON STRUCTURAL DRAWINGS ASSUME REPAIR/REPLACEMENT OF 25% OF 2X WOOD OUTRIGGERS SUPPORTING CORNICE AT THREE LEVELS.
 - PROVIDE CONTINUOUS WOOD BACKING BETWEEN OPEN FRAMING MEMBERS AS REQUIRED FOR PROPER INSTALLATION OF FULL WATERPROOFING MEMBRANE BEHIND SHEET METAL ROOFING & CLADDING.
- SHEET METAL ROOFING & CLADDING:**
 - REPLACE SHEET METAL FINIAL.
 - REPLACE FLAT SEAM SHEET METAL ROOFING AT DOME 100%.
 - REPLACE SHEET METAL CLADDING AT HORIZONTAL & SLOPED SURFACES 100%.
 - REINSTALL SALVAGED REMAINING SHEET METAL CLADDING IN GOOD CONDITION. SUPPLEMENT WITH NEW SHEET METAL WHERE EXISTING IS BEYOND REPAIR, ASSUME 30% OF TOTAL WALL AREA TO BE REPLACED.
 - RESTORE & REINSTALL EXISTING SHEET METAL SCHEDULED TO REMAIN. SCOPE GENERALLY INCLUDES:
 - REPAIR SMALL FASTENER HOLES WITH SEALANT. REPAIR LARGER HOLES (MAX. 3-INCHES) WITH SHEET METAL PATCH REPAIR.
 - ADJUST SHEET METAL TO ITS ORIGINAL POSITION WHERE MISALIGNED, SEVERELY DEFORMED, SEVERELY DENTED, LOOSE, OR DISLOADED. RE-SECURE SHEET METAL WHERE NECESSARY.
 - CLOSE OPEN JOINTS WITH RIVETS & SOLDER, WHERE NOT POSSIBLE TO SOLDER USE ADHESIVE TYPE SEALANT SPECIFIED.
 - REPLACE MISSING OR DAMAGED ELEMENTS WHERE NOTED ON THE DRAWINGS.
- LOUVERS:** PROVIDE METAL CLOTH ON INTERIOR SIDE OF LOUVER TO PREVENT ENTRANCE OF BIRDS & RODENTS.
- BIRD DETERRENT SYSTEM:** PROVIDE BIRD DETERRENT SYSTEM AT HORIZONTAL & SLOPED SURFACES, I.E. EACH CORNICE LEDGE, FULL PERIMETER.
- SEALANT:** PROVIDE/ REPLACE SEALANT AT PENETRATIONS, BETWEEN DISSIMILAR MATERIALS, & OTHER LOCATIONS AS NEEDED FOR WEATHERTIGHT ASSEMBLY.
- PAINTING:** PAINT CEMENT PARGE COAT 100%.
- LIGHTNING PROTECTION SYSTEM:** RESTORE & UPGRADE EXIST. SYSTEM AT THE TOWER FOR CODE COMPLIANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DESIGN DRAWINGS FOR COMPLETE LIGHTNING PROTECTION SYSTEM WHICH SHALL COMPLY WITH THE SPECIFICATIONS OF THE UNDERWRITERS LABORATORIES (UL 96A), THE NATIONAL FIRE PROTECTION INSTITUTE (NFPA NO. 780) & THE LIGHTNING PROTECTION INSTITUTE (LPI-75). THE UNDERWRITER'S LABORATORIES MASTER LABEL "C" SHALL BE DELIVERED TO THE ARCHITECT FOR APPROVAL BEFORE INSTALLATION IS COMPLETED.
- CLOCK FACE / CLOCKWORKS & BELL:**
 - CLOCK FACE: RESTORE CLOCK FACES, HANDS, & DIALS TO ORIGINAL CONDITION. COLOR TO MATCH 1920'S PAINT SCHEME.
 - CLOCKWORKS: RESTORE CLOCK WORKS TO ACCURATE ORIGINAL WORKING CONDITION.
 - BELL: MODIFY BELL ASSEMBLY FOR ELECTRIC STRIKE. COORDINATE RINGING OF BELL WITH CLOCKWORKS TO STRIKE ON THE HOUR.

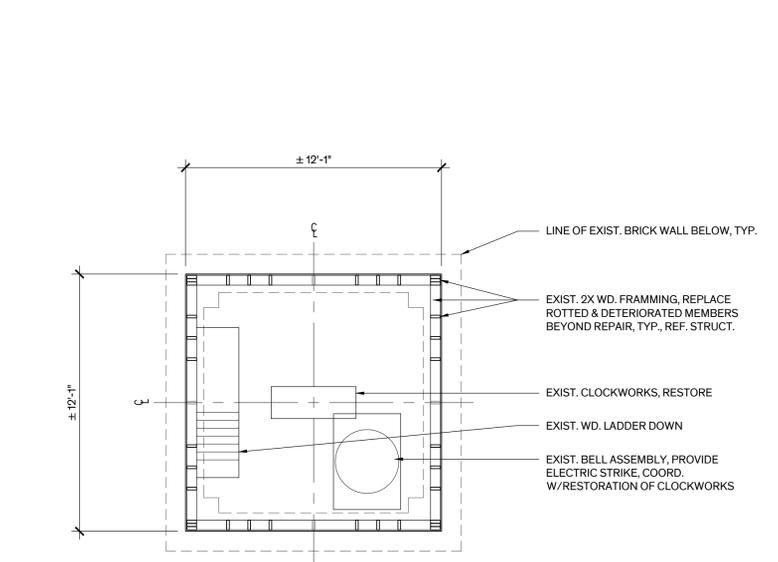


5 Section Through Tower
Scale: 1/2" = 1'-0"

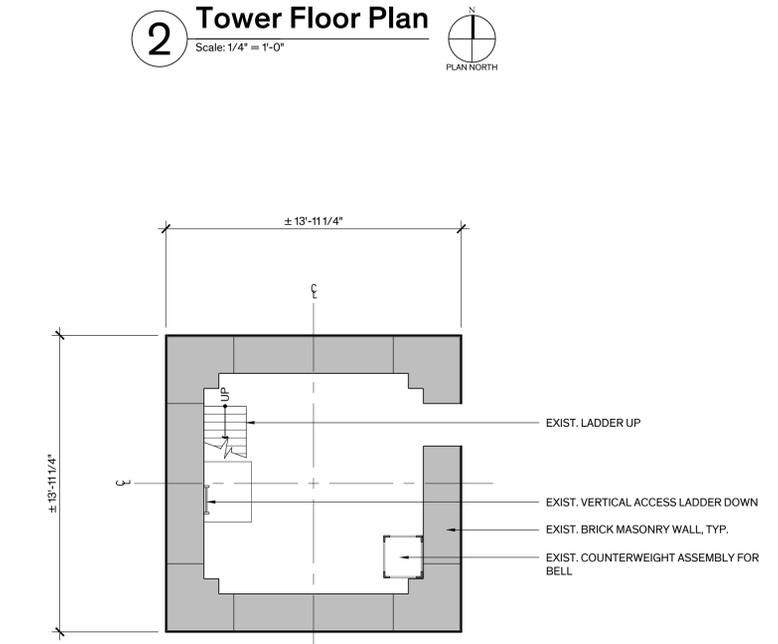
4 Tower Elevation, Typ.
Scale: 1/2" = 1'-0"



3 Tower Roof Plan
Scale: 1/4" = 1'-0"



2 Tower Floor Plan
Scale: 1/4" = 1'-0"



1 Tower Base Floor Plan
Scale: 1/4" = 1'-0"

LEGEND

EXISTING CONSTRUCTION

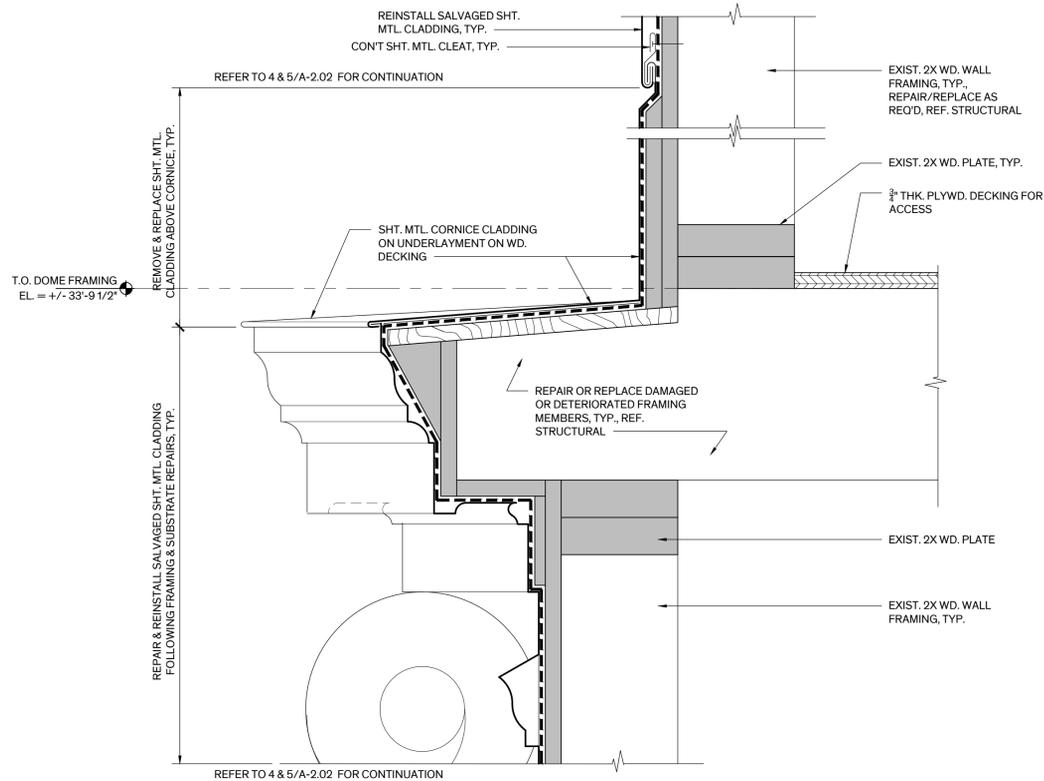
ALTERNATES

REFER TO SPEC. SECTION 01230 - ALTERNATES FOR DETAILED DESCRIPTION OF WORK

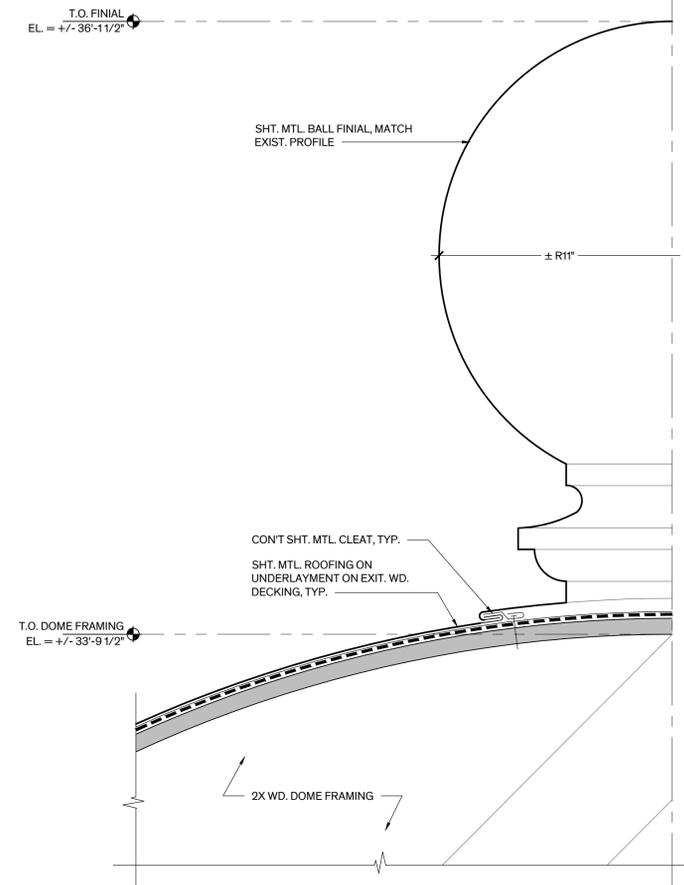
ALTERNATE NO. 1: IN LIEU OF RESTORING CLOCKWORKS TO ACCURATE ORIGINAL WORKING CONDITION, ABANDON EXIST. MECHANICAL SYSTEM & REPLACE WITH ELECTRIFIED SYSTEM AT EACH FACE.

LEGEND

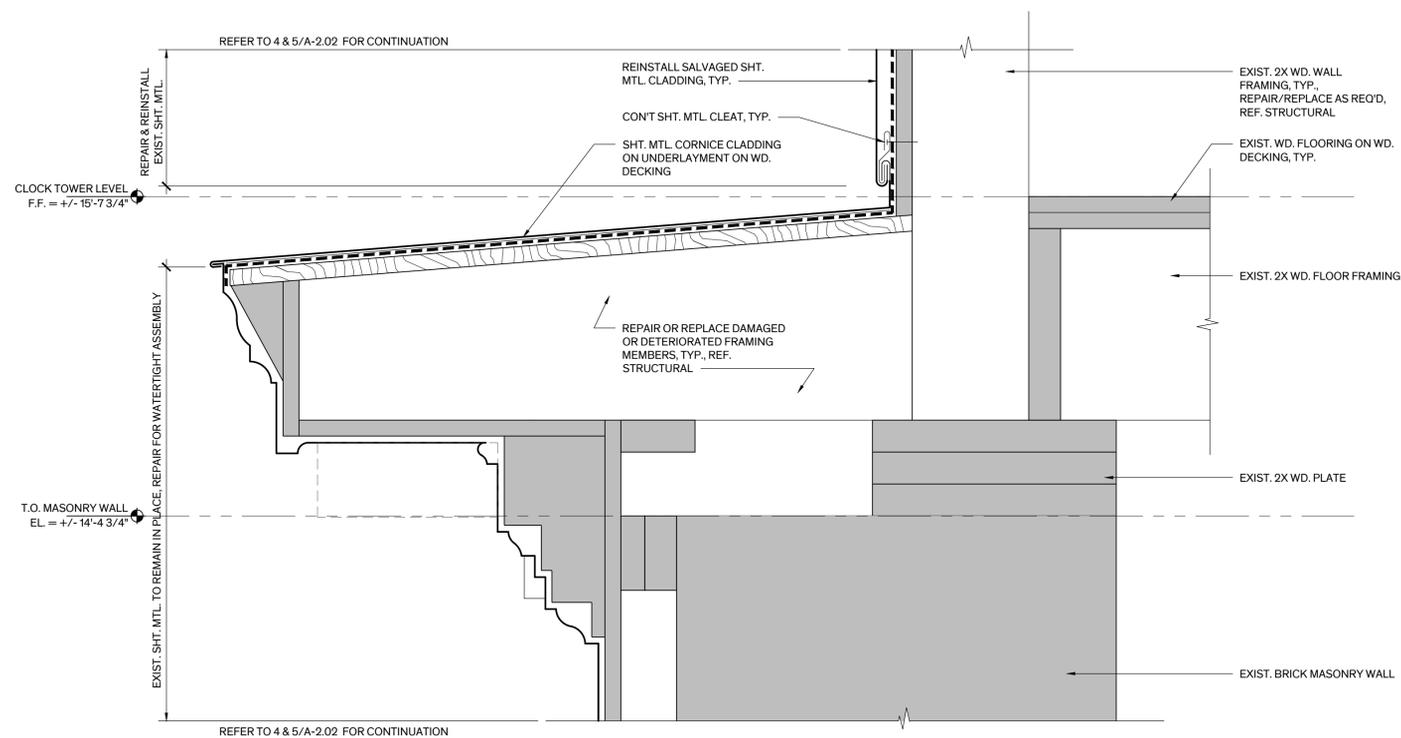
EXIST. CONSTRUCTION



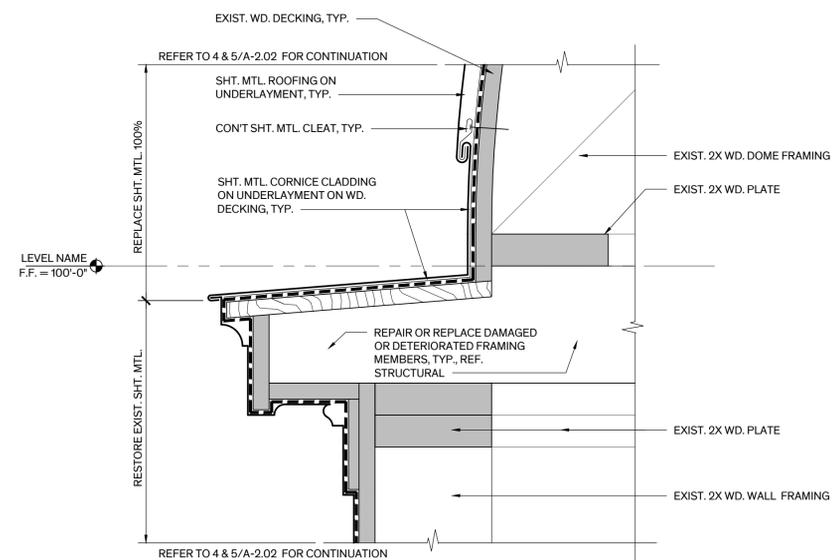
4 Det. at Intermediate Cornice
 Scale: 3" = 1'-0"



2 Ball Finial Det.
 Scale: 3" = 1'-0"



3 Det. at Lower Cornice
 Scale: 3" = 1'-0"



1 Det. at Base of Dome
 Scale: 3" = 1'-0"



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Architexas No. 2250 Date June 13, 2023

Sheet Name Sheet Metal Details

Sheet Number

COORDINATION

- Only large openings in structural framing members are shown on the structural drawings. However, all sleeves, embeds, inserts, openings and frames that are necessary for the work shall be provided. The Contractor shall coordinate with all trades sizes, locations and placement. All openings and embedded items which have an effect on the structure shall be submitted to the Engineer for review.
- Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, location of depressed or elevated floor areas, slopes and drains.
- Contractor shall coordinate the requirements for building equipment supported on or from the structure. Submittals identify all equipment including size, dimensions, clearances, accessibility, weights and reactions. Any deviations from specified equipment shall be noted on the submittals.
- Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Contract Drawings shall not be reproduced and used as shop drawings. All items deviating from the Contract Drawings or from previously submitted shop drawings shall be noted.
- The details designated as "Typical Details" apply generally to the Drawings in all areas where conditions are similar to those described in the detail.
- All dimensions and conditions of existing construction shall be verified at the job site. Differences between existing construction and the Drawings shall be referred to the Architect. Differences shall also be clouded on the shop drawings.
- The design and provision of all temporary supports required for the execution of the contract such as guys, braces, shores, reshores, falsework, supports and anchors are not included in these drawings and shall be the responsibility of the Contractor. Temporary supports shall not result in the overstress or damage to the structure.

SUBSTITUTIONS

- All requests for substitutions of materials or details shown in the contract documents shall be submitted for approval during the bidding period. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings to be deducted from the contract.

CODES

- IBC 2018 International Building Code and 2018 International Existing Building Code with City of Bastrop amendments.
- Wind and Earthquake Loads: Minimum Design Loads and Associated Criteria for Buildings and Other Structures, American Society of Civil Engineers, ASCE 7-16.
- Structural Reinforced Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318-14.
- Structural Masonry: Building Code Requirements for Masonry Structures, reported by the Masonry Standards Joint Committee, TMS 402-16.
- Structural Steel: Steel Construction Manual, American Institute of Steel Construction, Fourteenth Edition. Specification for Structural Steel Buildings, AISC 360-10.
- Wood Framing: National Design Specification (NDS) For Wood Construction with 2015 Supplement, American Forest and Paper Association, ANS/AWC NDS-2018, and Special Design Provisions for Wind and Seismic, ANS/AWC SDPWS-15.

SUBMITTALS

- Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Contract Drawings shall not be reproduced and used as shop drawings. All items deviating from the Contract Drawings or from previously submitted shop drawings shall be clouded.
- The Contractor shall review shop drawings for compliance with the contract documents and shall certify that he has done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned without review.
- The Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.
- Where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within 2 weeks of receipt.
- Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the contractor from compliance with requirements of the plans and specifications. The Engineer's review is for general conformance with the requirements of the Contract Documents. The Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating their work with that of all other contractors.
- Refer to individual sections for specific submittal requirements.

DESIGN LOADS

- Live Loads
 - Roof 20 psf
 - Stairs 100 psf
 - Attic 60 psf
 - Partition at areas with 80 psf live load or less 15psf
- Dead Loads include the self weight of the structural elements and the following superimposed loads:
 - Ceiling and Mechanical at roof 10 psf
 - Ceiling and Mechanical at floor 5 psf
 - Access flooring 10 psf
- Wind Loads
 - Wind Lateral Load on Structural Frame is based on the following:
 - Ultimate Design Wind Speed (3-sec. gust), V_{ult} 120 mph
 - Nominal Design Wind Speed, V_{sd} 93 mph
 - Risk Category III
 - Wind Exposure Category B
 - Internal Pressure Coefficient, GC_{pi} ±0.18
 - Component & Cladding Ultimate Design Pressures for the Courthouse:

Effective Area: ≤ 10 ft ²	(Parapets)
Zone 1	+28.2 psf; -50.4 psf
Zone 2e	+28.2 psf; -68.2 psf
Zone 2r	+28.2 psf; -82.6 psf
Zone 3	+28.2 psf; -68.2 psf
Zone 4	+39.0 psf; -42.3 psf
Zone 5	+39.0 psf; -52.3 psf

Effective Area: 50 ft ²	
Zone 1	+19.2 psf; -43.2 psf
Zone 2e	+19.2 psf; -54.5 psf
Zone 2r	+19.2 psf; -63.7 psf
Zone 3	+19.2 psf; -54.5 psf
Zone 4	+34.9 psf; -38.2 psf
Zone 5	+34.9 psf; -44.1 psf

Effective Area: >100 ft ²	
Zone 1	+15.4 psf; -37.8 psf
Zone 2e	+15.4 psf; -48.7 psf
Zone 2r	+15.4 psf; -55.5 psf
Zone 3	+15.4 psf; -48.7 psf
Zone 4	+32.1 psf; -35.3 psf
Zone 5	+32.1 psf; -39.3 psf

NOTE: Wall pressures for Zones 4 & 5 are based on ASCE 7-16, Figure 30.3-1. Roof pressures for Zones 1, 2e, 2r & 3 are based on ASCE 7-16, Figure 30.3-2H. "h" = 36 feet; "a" = 6.5 feet.

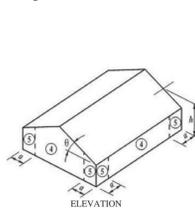
Directional Ultimate Design Pressures for the Clock Tower

Roof	Zone A	Zone B	Zone C
Zone A	+10.19 psf; +19.24 psf	-30.68 psf; -21.63 psf	-15.42 psf; -6.37 psf

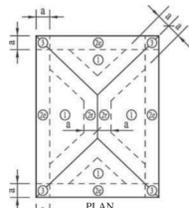
Walls	Zone A2	Zone A3	Zone B	Zone C
Zone A2	+10.69 psf; +19.74 psf	+12.54 psf; +21.59 psf	-15.42 psf; -6.37 psf	-19.78 psf; -10.73 psf

NOTE: Wall pressures for Zones A, B, & C are based on ASCE 7-16, Figure 27.3-2. "f" = 7 feet; "h" = 60 ft; "D" = 13.75 feet

- Calculate the effective area for each component & cladding element, as defined by ASCE 7, depending on length and location. Effective area shall be the maximum of the following:
Effective Area = Length x Tributary Width (OR) Length x (Length/3)
- Interpolation of uplift pressures is allowed between effective areas, or quantity shall be reported to the Architect immediately for verification of the structural design.



Wall Zones
ASCE 7-16 Fig. 30.3-1



Roof Zones
ASCE 7-16 Fig. 30.3-2H

- Floor and roof live loads noted above have been reduced in accordance with the building code.

ADHESIVE ANCHORS

- Adhesive anchors shall only be used where specified on the drawings. The Contractor shall obtain approval from the Engineer of record prior to using the anchors for missing or misplaced cast-in-place anchors.
- Unless otherwise noted, size and depth of the adhesive anchors specified in the drawings are based on HAS rods epoxy doweled with HIT-HY 200-R or HIT-RE 500 V3, Hilti Fastening Systems.
- Substitution of adhesive anchor products with similar capacities shall be submitted to the engineer of record for approval.
- Adhesive anchors of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current ICBO report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
- The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor locations can be adjusted by a maximum of 1 inch from detailed locations to avoid conflicts, unless noted otherwise.
- Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.
- Holes for anchors shall be drilled in a continuous operation using the bit type and size recommended by the anchor manufacturer. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. All debris shall be blown out of the holes with compressed air after drilling.
- All abandoned holes shall be filled with non-shrink grout.
- Holes in connection plates shall be no more than 1/16" larger than the anchor diameter. If larger holes are required for erection purposes, Contractor shall provide 1/4" x 3" x 3" plate washers sufficiently welded to the connection plate to transfer the specified load.
- Installation of adhesive anchors shall be continuously inspected by the testing agency to ensure that holes are of specified size, and that bolts are properly installed.

TIMBER FRAMING

- Unless otherwise noted, all structural framing lumber shall be clearly marked No. 2 Southern Yellow Pine or Douglas Fir-Larch, except that non-loadbearing interior walls may be stud grade Southern Yellow Pine, Douglas Fir-Larch, or Spruce-Pine-Fir.
- Studs shall be 2x6's at 16" on center, typical, unless noted otherwise.
- All wood headers, beams, and top plates shall be No. 2 Southern Yellow Pine or Douglas Fir-Larch.
- All load bearing walls shall have solid 2x blocking at 4'-0" o.c. maximum vertically. End nail with 2-16d nails or side toe nail with 2-16d nails.
- Provide double studs at all wall corners and on each side of all openings, unless noted or detailed otherwise.
- Floor sheathing: Match existing thickness, 3/4" min APA rated tongue and groove sheathing with an Exposure 1 rating or 3/4" min grade C-D tongue and groove plywood with exterior glue. Floor sheathing shall be glued to the wood support members with a wet adhesive, in addition to being nailed to the supports with 10d ring shank nails at 6" on center at supported edges and 12" on center at intermediate supports. Stagger joints in sheathing.
- Roof sheathing: Match existing thickness, 1/2" min APA rated sheathing with an exposure 1 rating. Panels shall be continuous over two or more spans with the long dimension oriented perpendicular to the framing members. Nail with 8d common nails at 6" on center at supported edges and 12" on center at intermediate supports. Stagger joints in sheathing.
- Wall sheathing: Match existing thickness, 1/2" min.
- Solid 2x blocking or bandboard shall be provided at supports and cantilever ends of all wood joists, and between supports in rows not exceeding 8'-0" apart.
- All framing members framing into the side of a header shall be attached using metal joist hangers of type "LU" as manufactured by the Simpson Company or equal. The hanger shall be sized and installed in accordance with the manufacturers recommendations for the size of joist supported.
- Nailing and attachment of all framing members and sheathing shall be as specified in the Uniform Building Code Nailing Schedule (table 25Q) unless noted otherwise in the drawings. Common wire nails or spikes, or galvanized box nails shall be used for all framing unless noted otherwise.
- Place a single plate at the bottom and a double plate at the top of all stud walls. Exterior sill plates shall be bolted to the existing masonry wall as shown in details. Provide a minimum of two bolts per plate segment. Sill plates in contact with concrete or masonry shall be pressure treated with a preservative.
- Provide double joists under all interior partition walls oriented parallel to the joists.
- All bolts and lag screws shall have standard washers. All anchor and expansion bolts used in wood to concrete connections in crawlspace areas shall be hot dip galvanized or stainless steel.
- Refer to the architectural drawings for additional wood framing members. Provide additional wood framing members shown on the architectural drawings even though they may not be shown on the structural drawings.

STRUCTURAL ABBREVIATIONS

ADDITIONAL	ADD'L
ADJACENT	ADJ.
AGGREGATE	AGGR.
ALTERNATE	ALT.
ANCHOR ROD	A.R.
ARCHITECT (URAL)	ARCH('L)
AIR CONDITIONER	A/C
AIR HANDLING UNIT	AHU
APPROXIMATE (LY)	APPROX.
AXIAL LOAD	P

BACK FACE	B.F.
BEAM	BM.
BEARING	BRG.
BETWEEN	BTWN.
BLOCKING	BLKG.
BLOCK-OUT	B.O.
BOTTOM	BOT.
BOTTOM OF	B.O.
BOTTOM OF STEEL	B.O.S.
BRICK LEDGE	BR. L.
BRIDGING	BRDG.
BUILDING	BLDG.
BUILDING LINE	B.L.

CAST-IN-PLACE	C.I.P.
CENTER LINE	C.L. OR C
CENTER LINE OF STEEL	C.L.S.
CENTER OF GRAVITY	C.G.
CLEAR(ANCE)	CLR.
COLUMN	COL
COMPLETE JOINT PENETRATION	C.J.P.
COMPRESSION	C OR COMP.
CONCRETE	CONC.
CONCRETE MASONRY UNIT	CMU
CONNECTIONS	CONX(S)
CONTINUOUS	CONT.
CONTRACTOR	CONTR.
CONTROL JOINT	CTL. J.
CONSTRUCTION	CONST.
CONSTRUCTION JOINT	C.J.
COVER PLATE	COV. PL.

DEFORMED BAR ANCHOR(S)	DBA(S)
DETAIL	DET.
DEAD LOAD	D.L.
DIAGONAL	DIAG.
DIAMETER	DIA.
DIMENSION(S)	DIM(S)
DIRECTION	DIR.
DRAWING(S)	DWG(S)
DOUBLE	DBL
DOUBLE EXTRA STRONG	XXS
DOWEL(S)	DWL(S)

EACH	EA.
EACH FACE	E.F.
EACH WAY	E.W.
ELECTRICAL	ELEC.
ELEVATION	EL.
ELEVATOR	ELEV.
EMBEDMENT	EMBED.
ENGINEER	ENGR.
EQUAL	EQ.
EQUIPMENT	EQUIP.
EXPANSION	EXP.
EXPANSION JOINT	E.J.
EXISTING	EXIST.
EXTERIOR	EXT.
EXTRA STRONG	XS

FACE TO FACE	F. TO F.
FABRICATE (ION) (OR)	FAB.
FAR SIDE	F.S.
FINISH(ED)	FIN(D)
FINISHED FLOOR	F.F.
FIREPROOF	F.P.
FLANGE	FLG.
FLOOR	FL.
FLOOR DRAIN	F.D.
FOOTING	FTG.
FOUNDATION	FDN.

GALVANIZED	GALV.
GENERAL	GEN.
GLUE LAMINATED TIMBER	GLULAM
GRADE	GR.
GRADE BEAM	GR.BM.

HOT DIP (PED)	H.D.
HEADED STUD(S)	H.S.
HEADER	HDR.
HEIGHT	HT.
HORIZONTAL	HORIZ.
HOOK	HK.

INSIDE DIAMETER	I.D.
INSIDE FACE	I.F.
INTERIOR	INT.
INTERMEDIATE	INTERM.

JOINT	JT.
JOIST(S)	JST(S)

LAMINATED VENEER LUMBER	LVL
LAMINATED STRAND LUMBER	LSL
LIGHTWEIGHT	LWT.
LIVE LOAD	L.L.
LONGITUDINAL	LONG.
LONG LEG HORIZONTAL	LLH
LONG LEG VERTICAL	LLV
LONG SIDE HORIZONTAL	LSH
LONG SIDE VERTICAL	LSV

MANUFACTURE (R)	MFR.
MASONRY	MAS.
MATERIAL	MAT'L
MECHANICAL	MECH('L)
METAL	MTL.
MEZZANINE	MEZZ.
MIDDLE	MID.
MISCELLANEOUS	MISC.
MOMENT	M.
MOMENT CONNECTION(S)	M.C.

NEAR FACE	N.F.
NOMINAL	NOM.
NON-SHRINK	N.S.
NORMAL WEIGHT	N.W.
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	N.T.S.

ON CENTER	O.C.
OPENING(S)	OPNG(S)
OPPOSITE	OPP.
OPPOSITE HAND	O.H.
ORIENTED STRAND BOARD	OSB
OUTSIDE FACE	O.F.
OUTSIDE DIAMETER	O.D.

PARALLEL	PAR.
PARALLEL STRAND LUMBER	PSL
PARTIAL JOINT PENETRATION	P.J.P.
PENETRATION	PEN.
PERPENDICULAR	PERP.
PIECE	PC.
PLATE	PL. OR P
PLYWOOD	PLYWD.
POINT	PT.
POST-TENSION (ED)	P.T.
POUND(S) X1000	KIP(S)
POUNDS PER LINEAR FOOT	PLF
POUNDS PER SQUARE FOOT	PSF
POUNDS PER CUBIC FOOT	PCF
POUNDS PER CUBIC YARD	PCY
PRECAST CONCRETE	P/C
PREFABRICATED	PREFAB.
PRELIMINARY	PRELIM.
PRESSURE	PRESS.
PROJECT (ION)	PROJ.

RADIUS	R
REFER TO / REFERENCE	REF.
REINFORCE (ING) (ED) (MENT)	REINF.
REMAINDER	REM.
REQUIRE	REQ.
REQUIRED	REQ'D
RETURN	RET.
ROOF DRAIN	R.D.
ROUGH OPENING	R.O.
ROUND	RND.

SCHEDULE (D)	SCHE.D.
SECTION	SECT.
SHEAR FORCE	V
SHEET	SHT.
SIMILAR	SIM.
SPACE(S) (ING)	SPA.
SPECIFICATION(S)	SPEC(S)
SPECIFIED	SPEC'D
SQUARE	SQ.
STAINLESS STEEL	S.S.
STANDARD	STD.
STEEL	STL.
STIFFENER	STIFF
STRAIGHT	STR.
STIRRUPS	STR.
STRUCTURE OR STRUCTURAL	STRUCT.
SUPPORT(S)	SUPT(S)

TENSION	T
THICK(NESS)	THK.
TONGUE AND GROOVE	T&G
TOP AND BOTTOM	T&B
TOP OF BEAM	T.O. BM.
TOP OF FOOTING	T.O. FTG.
TOP OF PIER	T.O. PIER
TOP OF PIER CAP	T.O. P.C.
TOP OF STEEL	T.O.S.
TOP OF STRUCTURAL CONCRETE	T.O.S.C.
TOP OF WALL	T.O.W.
TREATED	TRTD.
TYPICAL	TYP.

UNLESS OTHERWISE NOTED	U.O.N.
VERTICAL	VERT.
VOLUME	VOL.

WATER STOP	W.S.
WELDED WIRE MESH	W.W.M.
WIDE FLANGE	W.F.
WIND BRACE	WB
WIND LOAD	W.L.
WITH	W/
WITHOUT	W/O
WATER PROOFING	W.P.
WORK POINT	W.P.
WOOD	WD.

MATERIALS LEGEND

	EXISTING CONSTRUCTION
	CONCRETE
	STEEL IN SECTION
	PLYWOOD IN SECTION
	CMU
	BRICK OR STONE IN SECTION
	GROUT/SAND
	EARTH (UNDISTURBED)
	EARTH/FILL (COMPACTED)
	ROCK
	MECH. UNIT OR ZONE

DRAFTING SYMBOLS

	DIRECTION OF VIEW FOR SECTION CUT OR ELEVATION
	SECTION NUMBER
	SHEET NUMBER
	DIRECTION OF VIEW
	ELEVATION MARK
	SPECIFIC LOCATION DESCRIBED BY DETAIL
	DETAIL MARK

PLAN/DETAIL DESIGNATION

	PLAN NAME/DETAIL TITLE
	SCALE:

STRUCTURAL DRAWING TYPES

S1	... GENERAL NOTES
S2	... PLANS, ELEVATIONS, & SECTIONS
S3	... CONCRETE CONSTRUCTION
S4	... MASONRY CONSTRUCTION
S5	... STEEL CONSTRUCTION
S6	... WOOD CONSTRUCTION

Architexas

Austin | Dallas | San Antonio
www.architexas.com

2900 S. Congress Ave.
Suite Austin, Texas 78704
p 512.444.4220



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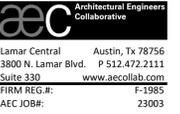
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GENERAL NOTES

Sheet

S-1.00



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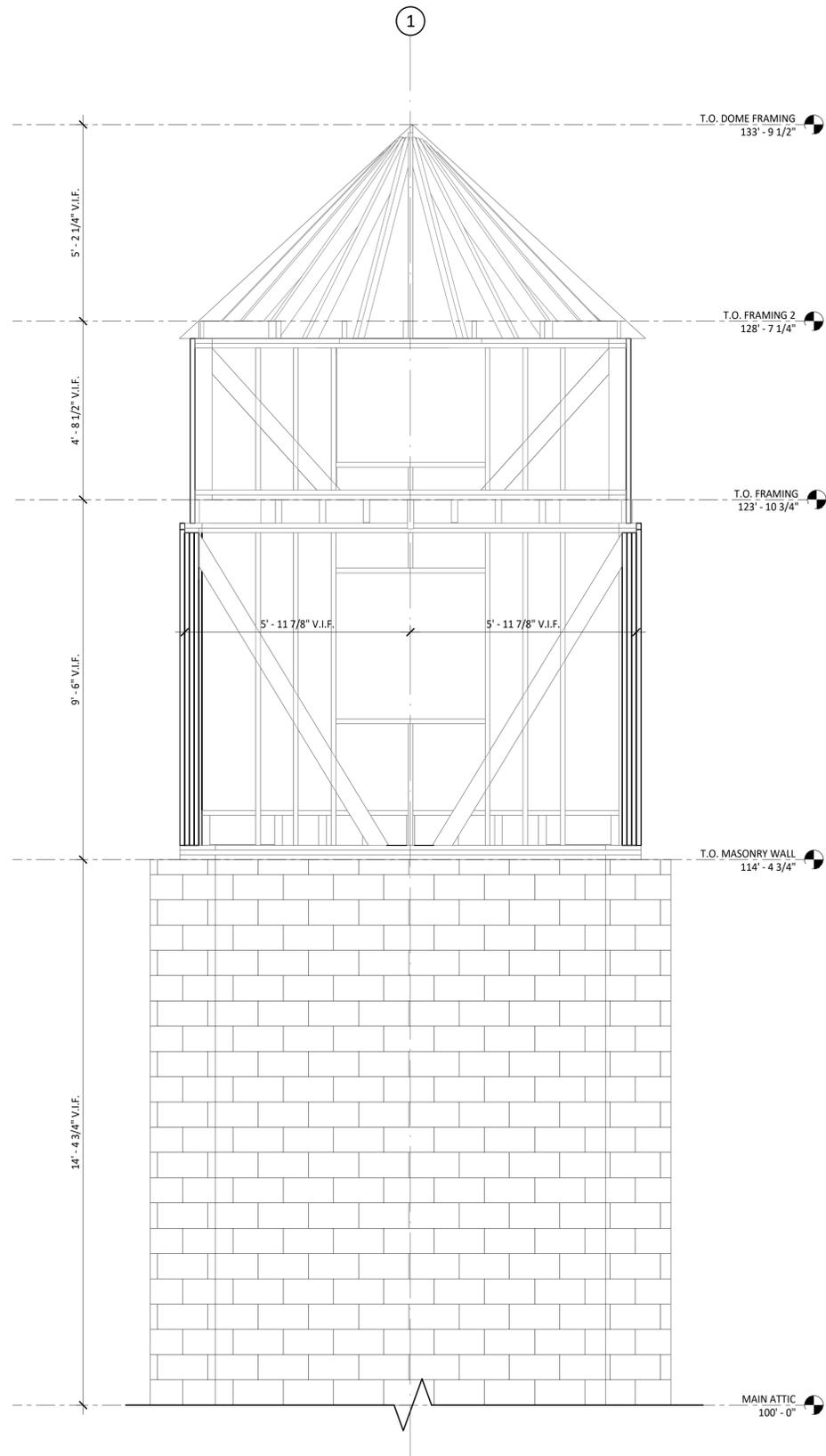


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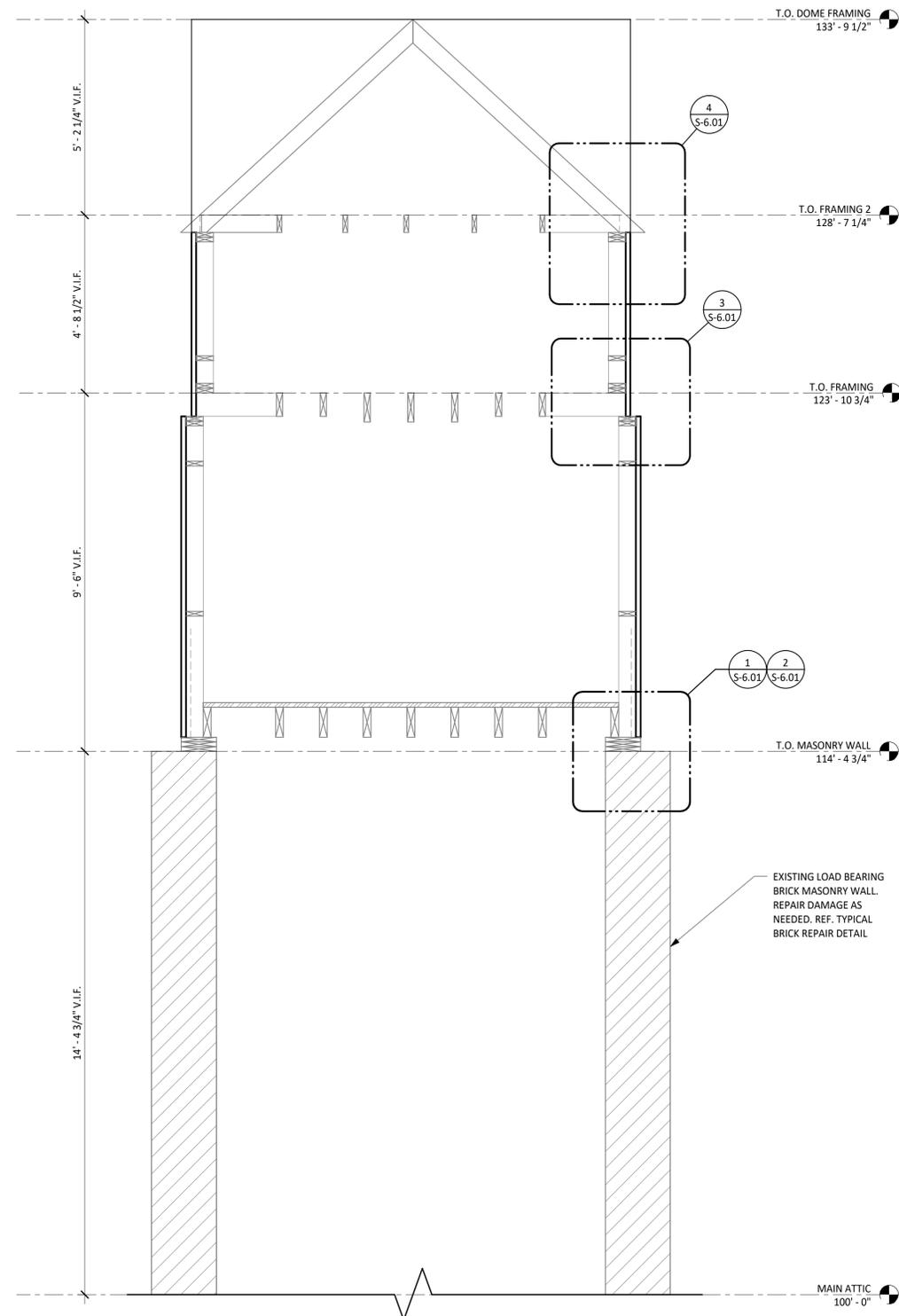
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TOWER EL. & SECTION

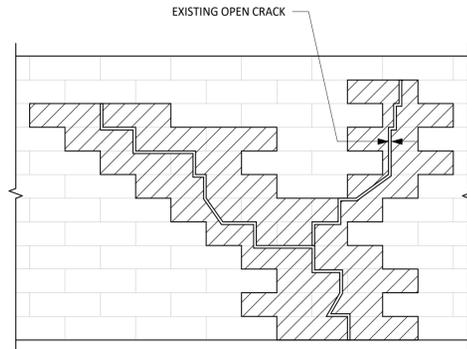
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1 TOWER ELEVATION
 SCALE: 1/2" = 1'-0"



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

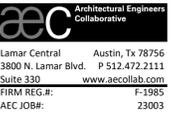


NOTES:

1.  DENOTES BRICK TO BE REPLACED. WHERE CRACK IS THRU WALL, REPLACE ALL WYTHES OF BRICK ON EA. SIDE OF CRACK TO 1ST MORTAR JOINT. REPLACE LOOSE AND CRACKED BRICKS. REPLACE EXISTING HEADERS w/ NEW HEADERS. WHERE CRACK IS ONLY IN OUTER WYTBE, REPLACE ONLY OUTER WYTBE.
2. WHERE CRACK IS OPEN AND 1/4" OR LESS AND IS PRESENT ONLY IN THE OUTER WYTBE AND ONLY IN JOINTS, RAKE AND REPOINT JOINTS ONLY.

1 REPAIR IN BRICK MASONRY

SCALE: 1" = 1'-0"



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TYP. MASONRY DETAILS

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NAILING SCHEDULE	
CONNECTION	NAILING
1. FLOOR JOIST TO BAND JOIST, FACE NAIL	3-16d
2. FLOOR JOIST TO SILL PLATE OR GIRDER, TOE NAIL	3-8d
3. BRIDGING TO JOISTS, TOE NAIL OR END NAIL EACH END	2-8d
4. SILL PLATE TO BAND JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
5. TOP PLATE TO STUD, END NAIL	2-16d
6. STUD TO SILL PLATE	4-8d TOE NAIL OR 2-16d EACH END
7. DOUBLE STUDS, FACE NAIL	16d AT 24" O.C. MAX.
8. DOUBLE TOP PLATES, FACE NAIL	16d AT 16" O.C.
9. TOP PLATES AND INTERSECTIONS, FACE NAIL	2-16d OR 3-10d
10. TOP PLATES AND LAPS, FACE NAIL	8-16d
11. CONTINUOUS HEADER-TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
12. CEILING JOISTS TO PLATE, TOE NAIL	3-8d
13. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
14. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
15. RAFTER TO PLATE, TOE NAIL	3-8d
16. 3/4" LET-IN BRACE TO EACH STUD AND PLATES, FACE NAIL	2-8d
17. BUILT-UP CORNER STUDS	16d AT 24" O.C.
18. BUILT-UP GIRDER AND BEAMS, THREE MEMBERS	20d AT 32" O.C. AT TOP AND BOTTOM (STAGGERED) 2-20d AT ENDS

NOTES:

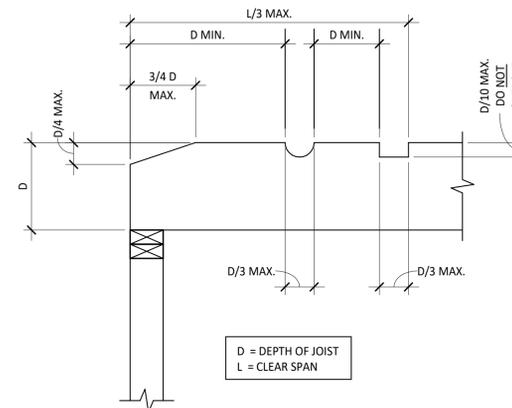
1. PROVIDE NAILING CONNECTIONS INDICATED IN SCHEDULE UNLESS DETAILED OR NOTED OTHERWISE.

1 NAILING SCHEDULE
SCALE: 1" = 1'-0"

WOOD CONSTRUCTION CONNECTOR NOTES:

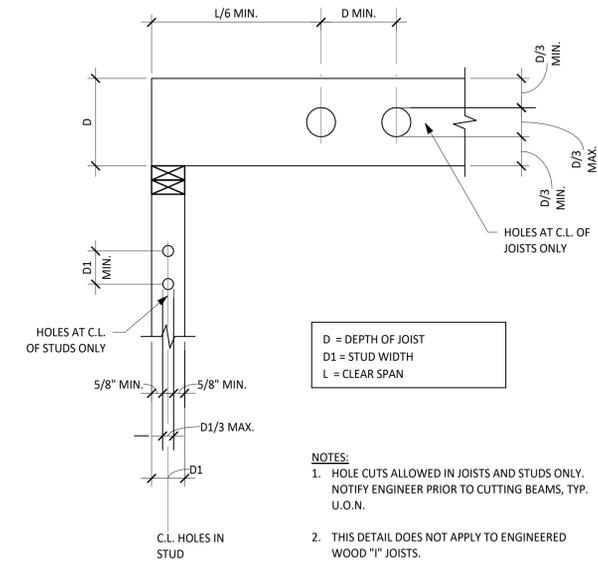
1. ALL WOOD CONSTRUCTION CONNECTORS SHOWN ARE SIMPSON STRONG-TIE CONNECTORS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (OR APPROVED EQUIVALENT). BEFORE SUBSTITUTING ANOTHER BRAND, CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA OR CALCULATIONS AND SUBMIT TO ARCHITECTURAL ENGINEERS COLLABORATIVE.
2. ALL SPECIFIED FASTENERS SHALL BE INSTALLED ACCORDING TO THE DETAILS AND THE MANUFACTURER'S INSTRUCTIONS. ALL HOLES IN CONNECTORS SHALL BE PROPERLY NAILED TO THE WOOD STRUCTURE. CONTACT ARCHITECTURAL ENGINEERS COLLABORATIVE FOR FASTENERS NOT SHOWN. INCORRECT FASTENER QUANTITY, SIZE, TYPE, MATERIAL, OR FINISH MAY CAUSE THE CONNECTION TO FAIL.
3. BOLT HOLES SHALL BE A MINIMUM OF 1/32" AND A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
4. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION. USE PROPER SAFETY EQUIPMENT.
5. WELDING GALVANIZED STEEL MAY PRODUCE HARMFUL FUMES; FOLLOW PROPER WELDING PROCEDURES AND SAFETY PRECAUTIONS. WELDING SHOULD BE IN ACCORDANCE WITH AWS STANDARDS.
6. PNEUMATIC OR POWDER-ACTUATED FASTENERS MAY DEFLECT AND INJURE THE OPERATOR OR OTHERS. NAIL GUNS MAY BE USED TO INSTALL CONNECTORS, PROVIDED THE CORRECT QUANTITY AND TYPE OF NAILS ARE PROPERLY INSTALLED IN THE NAIL HOLES. GUNS WITH NAIL HOLE-LOCATING MECHANISMS SHOULD BE USED. FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND USE THE APPROPRIATE SAFETY EQUIPMENT.
8. UNLESS OTHERWISE NOTED, BOLTS AND NAILS SHALL NOT BE COMBINED. SIMILARLY, WELDS SHALL NOT BE COMBINED WITH BOLTS OR NAILS.
9. 8d, 10d, 12d, 16d AND 20d SPECIFY COMMON NAILS AND MAY NOT BE REPLACED WITH BOX OR SINKER NAILS UNLESS OTHERWISE SPECIFIED.
10. BOLTS SHALL BE ASTM A307, GRADE A OR BETTER.
11. UNLESS OTHERWISE NOTED, BENDING STEEL IN THE FIELD MAY CAUSE FRACTURES AT THE BEND LINE. FRACTURED STEEL WILL NOT CARRY LOAD AND MUST BE REPLACED.
12. A FASTENER THAT SPLITS THE WOOD WILL NOT SUPPORT THE DESIGN LOAD. IF THE WOOD HAS A TENDENCY TO SPLIT, PRE-BORE HOLES TO 3/4 OF THE NAIL DIAMETER PER THE NDS.

2 WOOD CONSTRUCTION CONNECTOR NOTES
SCALE: 1" = 1'-0"



1. NOTCH CUTS ALLOWED IN TOP OF JOISTS ONLY. NOTIFY ENGINEER PRIOR TO CUTTING BEAMS, TYP. U.O.N.
2. THIS DETAIL DOES NOT APPLY TO ENGINEERED WOOD "I" JOISTS.

3 NOTCHES IN WOOD
SCALE: 1" = 1'-0"



- NOTES:**
1. HOLE CUTS ALLOWED IN JOISTS AND STUDS ONLY. NOTIFY ENGINEER PRIOR TO CUTTING BEAMS, TYP. U.O.N.
 2. THIS DETAIL DOES NOT APPLY TO ENGINEERED WOOD "I" JOISTS.

4 HOLES IN WOOD
SCALE: 1" = 1'-0"



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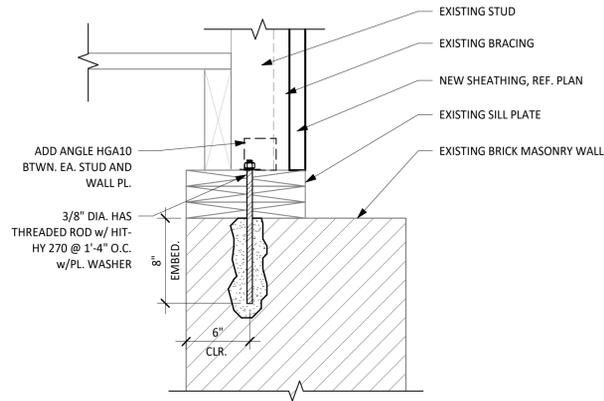


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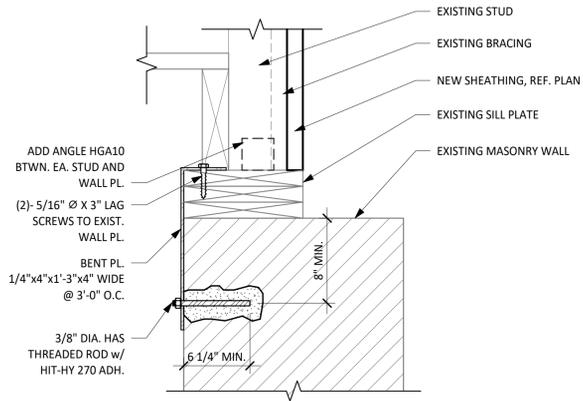
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TYP. WOOD DETAILS

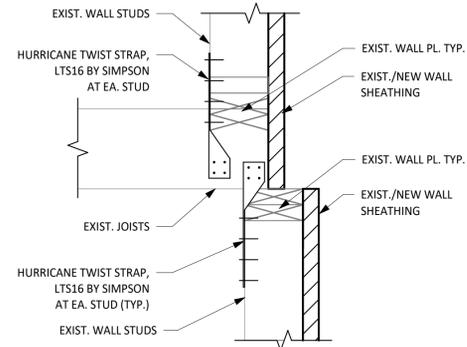
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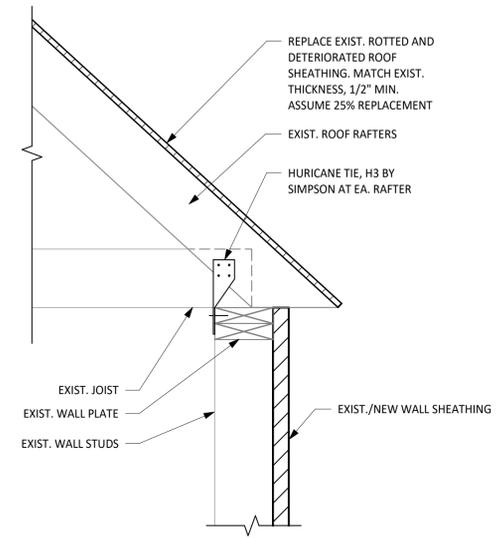
1 DETAIL - SILL PLATE AT MASONRY WALL
 SCALE: 1 1/2" = 1'-0"



2 DETAIL - SILL PLATE AT MASONRY WALL - ALTERNATE
 SCALE: 1 1/2" = 1'-0"



3 DETAIL - HURRICANE TIES AT EXISTING FRAMING
 SCALE: 1 1/2" = 1'-0"



4 DETAIL - HURRICANE TIES AT EXISTING ROOF FRAMING
 SCALE: 1 1/2" = 1'-0"



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WOOD DETAILS



DBR Project Number	235003.000			
EP	BB/LI	JA	CE	GC

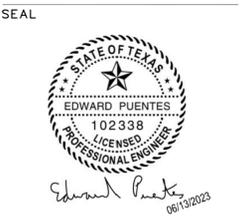


BASTROP COUNTY COURTHOUSE, TOWER REPAIRS

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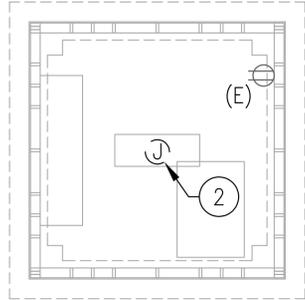
Sheet Name ELECTRICAL SYMBOL LEGEND

Sheet Number

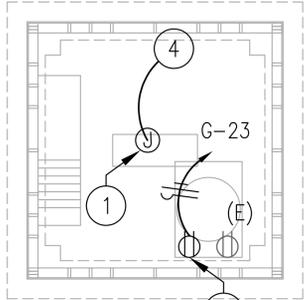
ABBREVIATIONS	ELECTRICAL SYMBOLS	GENERAL NOTES:	MISCELLANEOUS
<p>AC ALTERNATING CURRENT AF AMPERE FUSE, AMPERE FRAME AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AIC AMPERE INTERRUPT CAPACITY AL ALUMINUM AM AMMETER AMP AMPLIFIER ANN ANNUNCIATOR ASC AMPERES SHORT CIRCUIT AT AMPERE TRIP RATING ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY BKR BREAKER BLDG. BUILDING C CONDUIT, CELSIUS CKT CIRCUIT CLG. CEILING CONT. CONTINUOUS, CONTINUATION CONTR. CONTROLLER, CONTRACTOR CT CURRENT TRANSFORMER/COOLING TOWER CU COPPER DAS DISTRIBUTED ANTENNA SYSTEM DC DIRECT CURRENT DISC DISCONNECT DP DISTRIBUTION PANEL DPDT DOUBLE-POLE, DOUBLE-THROW DPST DOUBLE-POLE, SINGLE-THROW DWG DRAWING ELEV. ELEVATOR EPO EMERGENCY POWER OFF EREC EMERGENCY RESPONDER RADIO COVERAGE SYSTEM FA FIRE ALARM FF FURNITURE FEED FLA FULL LOAD AMPS FTL FEED-THRU LUGS GA GAUGE GEN GENERATOR GND GROUND GTD GENERATOR TRANSFER DEVICE IG ISOLATED GROUND LF LINEAR FEET LGT LIGHTING LV LOW VOLTAGE LVL LEVEL MAX. MAXIMUM MC METAL CLAD CABLE MCA MINIMUM CIRCUIT AMPS MGB MAIN CIRCUIT BREAKER MCCB MOLDED CASE CIRCUIT BREAKER MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MIC MICROPHONE MIN. MINIMUM MLO MAIN LUGS ONLY MOCP MAXIMUM OVER-CURRENT PROTECTION MSB MAIN SWITCHBOARD N3R NEMA 3R N4X NEMA 4X N.C. NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NF NON-FUSED NFS NON-FUSED SWITCH NIC NOT IN CONTRACT NL NIGHT LIGHT N.O. NORMALLY OPEN NO. NUMBER NTS NOT TO SCALE PH PHASE POS POINT OF SALE QTY QUANTITY RCP REFLECTED CEILING PLAN RCPPT RECEPTACLE REF REFERENCE, REFER SF SQUARE FOOT SIM SIMILAR SKVA STARTING KILOVOLT-AMPS SPD SURGE PROTECTION DEVICE SPDT SINGLE-POLE, DOUBLE-THROW SPST SINGLE-POLE, SINGLE-THROW SPEC SPECIFICATION SQFT SQUARE FOOT ST SHUNT TRIP SWB SWITCHBOARD TL TWIST-LOCK TOC TOP OF CURB TOS TOP OF STEEL TR TAMPER RESISTANT RECEPTACLE TV TELEVISION TYP TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SYSTEM VFD VARIABLE FREQUENCY DRIVE WF WATERPROOF WT WEIGHT W/SF WATTS PER SQUARE FOOT XFMR TRANSFORMER</p> <p>MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES</p>	<p>MOTORS AND CONTROLS</p> <p> MOTOR RATED SWITCH WITH THERMAL OVERLOADS</p> <p> SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER</p> <p> ELECTRIC DUCT HEATER</p> <p> DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R</p> <p> ENCLOSED CIRCUIT BREAKER-- "200/3/150" DENOTES AMPERES/POLE/TRIP</p> <p> MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.</p> <p> COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/90" DENOTES AMPERES/POLES/FUSE/STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.</p> <p> VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.</p> <p> EMERGENCY POWER OFF BUTTON.</p> <p>RECEPTACLES AND OUTLETS</p> <p>ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.</p> <p>ABBREVIATIONS APPLICABLE TO RECEPTACLES:</p> <p>"GFI" GROUND FAULT INTERRUPTER "WP" WEATHERPROOF "IG" ISOLATED GROUND "TR" TAMPER RESISTANT "USB" RECEPTACLE WITH USB CHARGING PORTS "AC" ABOVE COUNTER MOUNTING "UC" UNDER COUNTER MOUNTING "H" HORIZONTALLY ORIENTED RECEPTACLE SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. DUPLX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED FOURPLEX (QUADRUPLEX) RECEPTACLE DUPLX RECEPTACLE (PEDESTAL MOUNTED) CONTROLLED WALL RECEPTACLE. DUPLX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE. POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT</p> <p>CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY</p> <p>SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT</p> <p>TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA</p> <p>FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE</p> <p>FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FLOOR RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.</p> <p>DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED</p> <p>CORD REEL WITH DUPLX RECEPTACLE UNLESS OTHERWISE NOTED</p> <p>JUNCTION BOX "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES</p> <p>PULL BOX (OVER 4" SQUARE)</p> <p>BELL/BUZZER/CHIME</p> <p>PUSH BUTTON/DOOR BELL, START-STOP</p> <p>POWER POLE</p> <p>POINT OF DIRECT CONNECTION TO EQUIPMENT</p> <p>CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.</p> <p>LIGHTING</p> <p>LETTER(S) DENOTE TYPE-- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.</p> <p> STRIP LIGHTING FIXTURES. ROUND DOWNLIGHT FIXTURE. SQUARE DOWNLIGHT FIXTURE. WALL MOUNTED LIGHTING FIXTURE. TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE. CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE. WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE. EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE. SITE LIGHTING FIXTURE.</p> <p>HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.</p> <p> EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE. "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION</p> <p> LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.</p> <p> CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED, HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES</p>	<p>RACEWAYS AND WIRING</p> <p> CAP AND STAKE</p> <p> CONDUIT CONCEALED IN WALL OR CEILING</p> <p> UNDERGROUND, UNDERSLAB, CONCEALED ROUTING</p> <p> OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE</p> <p> CONDUIT UP/DOWN</p> <p>HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.</p> <p> HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.</p> <p> PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.</p> <p> TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.</p> <p>ELECTRICAL EQUIPMENT</p> <p> DISTRIBUTION PANEL</p> <p> SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER</p> <p> PANELBOARD (FLUSH/SURFACE MOUNT)</p> <p> FLOOR MOUNTED DRY-TYPE TRANSFORMER</p> <p> SUSPENDED OR WALL MOUNTED TRANSFORMER</p> <p> AUTOMATIC TRANSFER SWITCH FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4" X 8" X 3/4" UNLESS NOTED OTHERWISE</p> <p>COMMUNICATIONS</p> <p>DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)</p> <p> DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY</p> <p> SCHOOL INTERCOMMUNICATION SYSTEM HANDETS.</p> <p>DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF</p> <p> VOLUME CONTROL - WALL MOUNTED</p> <p> INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE</p> <p>DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER</p> <p> INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT</p> <p>CEILING MOUNTED DEVICES: INTERCOM/PA SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER. REFER TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.</p> <p>ONE-LINE DIAGRAM</p> <p> TRANSFORMER, TYPE AND RATINGS AS NOTED</p> <p> SWITCH, RATING AS SHOWN</p> <p> FUSE, RATING AS SHOWN</p> <p> SHUNT TRIP</p> <p> GROUND FAULT PROTECTION</p> <p> KIRK-KEY INTERLOCK</p> <p> DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT</p> <p> CURRENT TRANSFORMER, RATED AS SHOWN</p> <p> GROUND CONNECTION</p> <p> AUTOMATIC TRANSFER SWITCH</p> <p> BUS DUCT PLUG</p> <p> ELECTRICAL UTILITY REVENUE METER</p> <p> SURGE PROTECTION DEVICE</p> <p> GENERATOR ANNUNCIATOR PANEL</p> <p> CIRCUIT BREAKER</p> <p> DRAW-OUT CIRCUIT BREAKER</p> <p>DAYLIGHT ZONES</p> <p> DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE</p> <p> SECONDARY DAYLIGHT ZONE</p> <p>DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.</p>	<p>NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.</p> <p> SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.</p> <p> INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL</p> <p> DRAWING NOTE REFERENCE</p> <p> AREA OF RESCUE ASSISTANCE</p> <p>FIRE ALARM</p> <p> WATER FLOW SWITCH</p> <p> SUPERVISORY SWITCH</p> <p> SMOKE DETECTOR - MULTI CRITERIA DETECTOR</p> <p> SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "DT" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE</p> <p> HEAT DETECTOR</p> <p> BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT</p> <p> BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT</p> <p> FIRE ALARM SPEAKER STROBE / CEILING MOUNTED</p> <p> FIRE ALARM SPEAKER / CEILING MOUNT.</p> <p> MAGNETIC DOOR HOLDER</p> <p> AUXILIARY CONTROL RELAY</p> <p> FIRE FIGHTER HANDETS</p> <p> FIRE ALARM PULL STATION +42" AFF</p> <p> FIREMAN'S TELEPHONE JACK +42" AFF</p> <p> AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.</p> <p> VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.</p> <p> AUDIO FIRE ALARM HORN +80" AFF</p> <p> FIRE ALARM CONTROL PANEL</p> <p> REMOTE FIRE ALARM ANNUNCIATOR PANEL</p> <p> REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.</p> <p> FIRE SMOKE DAMPER</p> <p> REMOTE LED INDICATOR LIGHT</p> <p>SECURITY</p> <p> ADA AUTO DOOR OPEN BUTTON</p> <p> DOOR RELEASE BUTTON</p> <p> WALL MOUNTED CARD READER</p> <p>REFER TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.</p> <p>SWITCHES AND LIGHTING CONTROL DEVICES</p> <p>ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULE SHEETS.</p> <p>SWITCH ANNOTATION AS FOLLOWS:</p> <p> TYPE, PER SCHEDULE NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH</p> <p> SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)</p> <p>OCCUPANCY SENSOR ANNOTATION AS FOLLOWS:</p> <p> OCCUPANCY / VACANCE SENSOR "x" INDICATES TYPE, PER SCHEDULE</p> <p> CEILING SENSOR WITH BRACKET INDICATES WALL / CORNER MOUNT</p> <p>LIGHT SENSOR ANNOTATION AS FOLLOWS:</p> <p> DIGITAL PHOTOCELL</p> <p> DAYLIGHT HARVESTING SENSOR</p> <p>RELAY PANELS, CONTACTORS, TIME SWITCHES:</p> <p> RELAYS/CONTACTORS/TIMERS/DEVICES WHERE "XX" INDICATES: "LC" LIGHTING CONTRACTOR "LCP" LIGHTING CONTROL PANEL "TS" TIME SWITCH "TC" TIME CLOCK</p> <p>DRAWING/DETAIL REFERENCE KEY</p> <p>REFER TO DRAWING/DETAIL NUMBER 1</p> <p>RE: E3-2</p> <p> SHEET NUMBER</p> <p>PANELBOARD NOMENCLATURE</p> <p> 5 DP C H A 1</p> <p>SUB PANEL AREA VOLTAGE H: 480Y/277V L: 208Y/120V BRANCH NONE: NORMAL E: LIFE SAFETY C: EQUIPMENT C: CRITICAL R: LEGALLY REQUIRED X: OPTIONAL STAND-BY DISTRIBUTION PANEL (IF APPLICABLE) LEVEL</p>



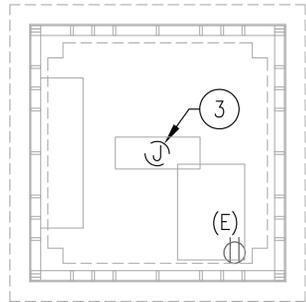
DBR Project Number	235003.000			
EP	BB/LI	JA	CE	GC



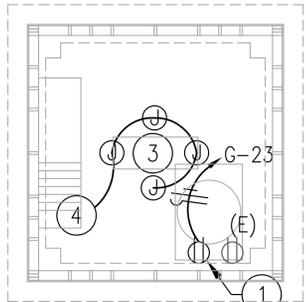
1 TOWER POWER DEMO PLAN - BASE BID
EP2.05 1/4"=1'-0" TRUE NORTH



2 TOWER POWER PLAN - BASE BID
EP2.05 1/4"=1'-0" TRUE NORTH



3 TOWER POWER DEMO PLAN - ALTERNATE BID #1
EP2.05 1/4"=1'-0" TRUE NORTH



4 TOWER POWER PLAN - ALTERNATE BID #1
EP2.05 1/4"=1'-0" TRUE NORTH

GENERAL ELECTRICAL NOTES:

- A. REFER TO TOWER FLOOR PLAN ON SHEET A-2.01, SPECIFICATION SECTION 01230 AND SECTION 11100 FOR COMPLETE SCOPE OF WORK. COORDINATE WITH CLOCK RESTORATION SPECIALIST.
- B. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECT.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 28 SCOPE OF WORK IS PROHIBITED.
- D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.
- E. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.
- F. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER-RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.
- G. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

ELECTRICAL KEYED NOTES:

- 1. PROVIDE POWER TO ELECTRIC STRIKE. COORDINATE POWER REQUIREMENTS WITH CLOCK RESTORATION SPECIALIST.
- 2. BASE BID: DISCONNECT AND RECONNECT ELECTRICAL CONNECTION TO EXISTING CLOCKWORKS. ENSURE SYSTEM IS FULLY FUNCTIONING.
- 3. UPON ACCEPTANCE OF ALTERNATE BID #1, DEMOLISH ELECTRICAL CONNECTION TO EXISTING CLOCKWORKS AND PROVIDE (4) NEW ELECTRIC CLOCK MOTORS, (1) FOR EACH CLOCK FACE.
- 4. RECONNECT TO EXISTING CIRCUIT SERVING CLOCKWORK.



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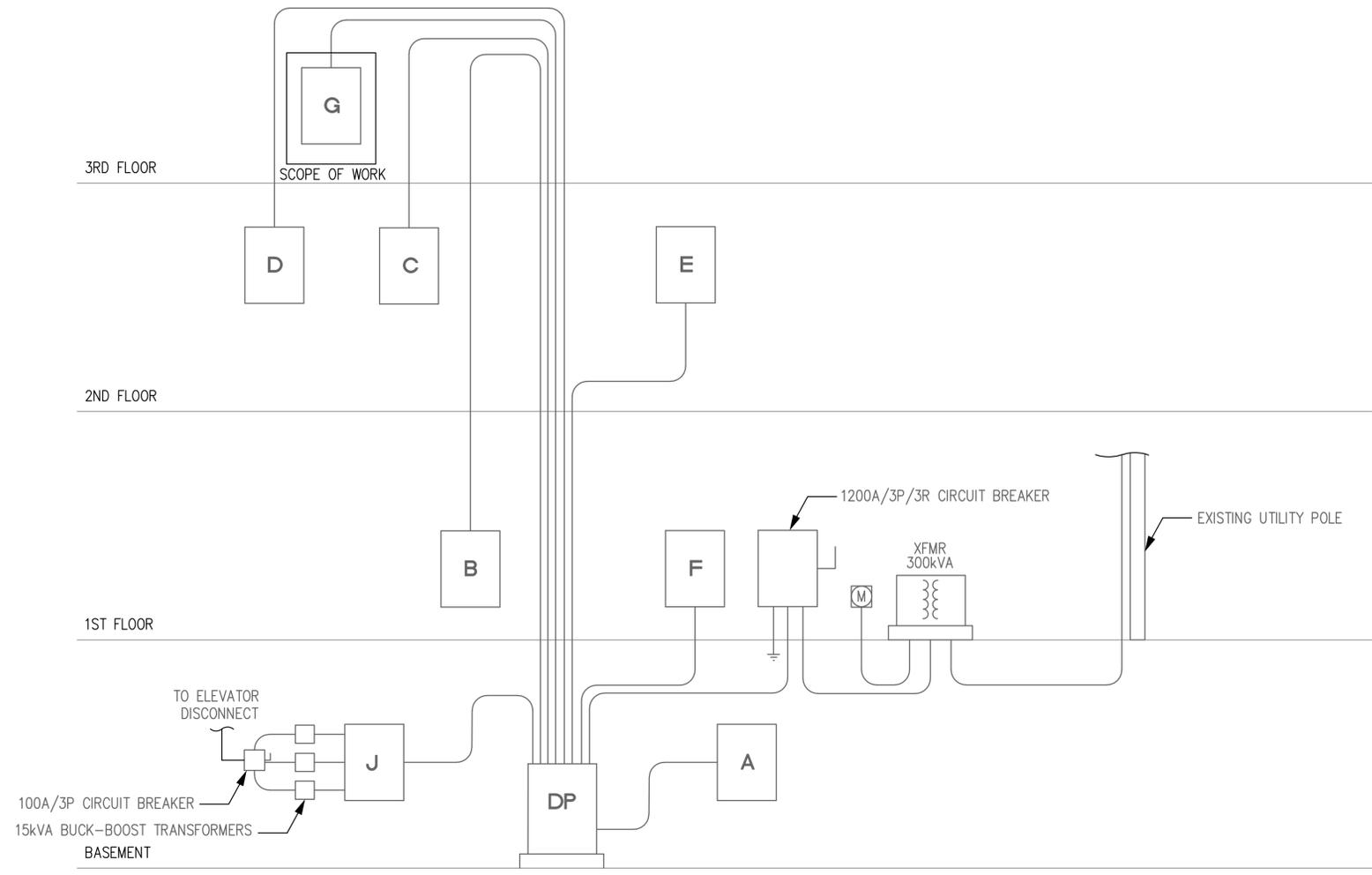
Architexas No. 2250 Date June 13, 2023

Sheet Name
CLOCK TOWER POWER PLANS

Sheet Number
EP2.05



DBR Project Number		235003.000
EP	BB/IL	JA CE GC



1 EXISTING ONE-LINE DIAGRAM
E4.01 N.T.S.

Panelboard G												10,000 AIC Rating		
120/208 Volt, 3-Phase, 4-Wire												X Existing		
2 Section												New		
1 -Nema Rating												X Existing		
MCB 0 AMP MCB												X Existing		
X MLO 225 AMP BUS (Copper)												New		
Single Double Feed - Thru												X Existing		
Mounting X Surface Flush												New		
Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	1000	(E) PLUGS RM. 312, 313, 315	R	12	20/1	1	A	2	20/1	12	R	(E) PLUGS HALLWAY	1000	
	500	(E) TELEPHONE	M	12	20/1	3	B	4	20/1	12	R	(E) PLUGS RM. 305	1100	
	800	(E) PLUGS RM. 310	R	12	20/1	5	C	6	20/1	12	R	(E) PLUGS RM. 306 & HALLWAY E	1100	
	1500	(E) COFFEE BAR	M	12	20/1	7	A	8	15/2	12	H	(E) H.P. RM 312	1100	
	1400	(E) H.P. RM 313 & 315	H	12	15/2	9	B	10	11	12	H	(E) H.P. COURT RM	6900	
	6900	(E) H.P. COURT RM	H	10	30/3	13	A	14	15	12	H	(E) H.P. RM 301	1200	
	2000	(E) H.P.	H	12	20/2	17	C	18	19	12	H	(E) HEAT PUMP	3900	
	1500	ELECTRIC STRIKE	-	12	20/1	21	B	22	23	10	H	(E) H.P.	3900	
	2500	(E) H.P.	H	12	20/2	31	A	32	33	10	H	(E) LIGHTS COURT RM	1400	
	180	(E) LIGHT RM. 310	L	12	20/1	35	C	36	20/1	12	L	(E) LIGHTS HALLWAY WEST/LAW LIBRARY	1400	
	1400	(E) CLOCK	M	12	20/1	37	A	38	20/1	12	L	(E) LIGHTS HALLWAY EAST	1200	
	1100	(E) LIGHTS	L	12	20/1	39	B	40	20/1	12	H	(E) LIGHTS RESTROOMS	1000	
	1300	(E) LIGHTS COURT RM	L	12	20/1	41	C	42	20/1	12	L	(E) ROOF LIGHTS/PLUGS	2000	
	900	(E) LIGHTS COURT RM	L	12	20/1	43	A	44	20/1	12	L	(E) ISOLATED PLUGS	1000	
	1300	(E) LIGHTS ATTIC	L	12	20/1	45	B	46	20/2	12	WH	(E) ISOLATED PLUGS	1000	
	600	(E) CEILING FANS COURT RM	F	12	20/1	47	C	48	20/1	12	R	(E) ISOLATED PLUGS	1000	
	1000	(E) LIGHTS COURT RM	L	12	20/1	49	A	50	20/1	12	R	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	51	B	52	-	-	-	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	53	C	54	20/1	12	M	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	55	A	56	20/1	12	M	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	57	B	58	20/1	12	M	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	59	C	60	20/1	12	R	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	61	A	62	20/1	12	R	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	63	B	64	20/1	12	R	(E) ISOLATED PLUGS	1000	
	1000	(E) CHRISTMAS	M	12	20/1	65	C	66	20/1	12	R	(E) ISOLATED PLUGS	1000	
	33,880	Subtotal										Subtotal	36,500	
	220.44	(R) Recept										(L) Lighting	10,880	125%
	220.56	(K) Kitchen	10,000	100%	0	0	0	210.20(a)				(EL) Ext. Ltg.	0	125%
	220.60	(C) Cooling	0	0%	0	0	620.14					(E) Elevators	0	100%
	220.60	(H) Heating	31,000	100%	31,000							(WH) Water Ht.	2,000	100%
	220.60	(F) Fans	600	100%	600			220.50				(MT) Lrg. Mot.	0	125%
		(M) Misc.	14,400	100%	14,400							(SP) Sub Panel	0	100%
Total Connected Load =			68,880 VA =		191.3 AMPS	Location of Panel:			RM 304					
Total Load (Diversified) =			71,600 VA =		198.9 AMPS									



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Sheet Name
ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHEDULES

Sheet Number

E4.01