PROJECT INFORMATION

The project consists of renovating an existing guard house building at the Laredo College Fort McIntosh Campus. The building will be converted to a Veterans Services Center. The building and reconstructing a similar structure in its place. The new building will contain offices, a multipurpose area and computer lab, a break room, restroom, and associated suppor

SHEET LIST - GENERAL	
SHEET NUMBER	SHEET NAME
G-000	TITLE SHEET
G-001	DRAWING INDEX & CONVENTIONS
G-002	ACCESSIBILITY STANDARDS
G-003	ACCESSIBILITY STANDARDS
G-004	ACCESSIBILITY STANDARDS
G-005	ACCESSIBILITY STANDARDS
G-006	TAS FLOOR PLAN
Grand total: 7	

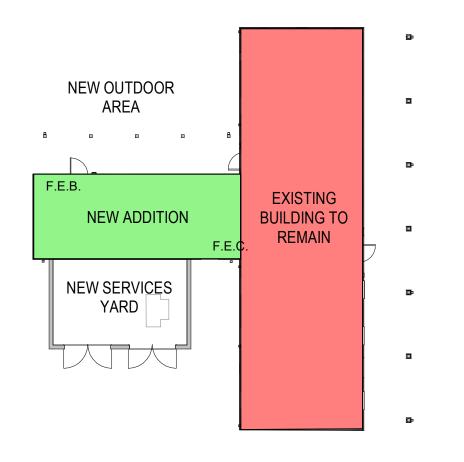
:	SHEET LIST - LIFE SAFETY		
ET NUMBER		SHEET NAME	
0	LIFE SAFETY PLAN		
l total: 1			

SHEET LIST - CIVIL		
SHEET NUMBER	SHEET NAME	
C-1	GENERAL NOTES & CONTROL POINTS PLAN	
C-2	EXISTING SITE PLAN	
C-3	DEMOLITION PLAN	
C-4	PROPOSED SITE & DIMENSIONAL PLAN	
C-5	GRADING PLAN	
C-6	UTILITIES PLAN	
C-7	STORM WATER POLLUTION PREVENTION PLAN	
C-8	GENERAL DETAILS	

Grand total: 8

SHEET LIST - ARCHITECTURAL	
SHEET NUMBER	SHEET NAME
AEX-100	EXISTING SITE PLAN
AEX-101	EXISTING FLOOR PLANS
AEX-102	EXISTING ELEVATIONS
AEX-103	EXISTING CONDITIONS EXTERIOR PHOTOS
AEX-104	EXISTING CONDITIONS INTERIOR PHOTOS
AEX-105	EXISTING SECTIONS
AD-101	SITE PLAN DEMOLITION
AD-102	DEMOLITION FLOOR PLAN, ROOF & RCP
AD-103	DEMOLITION ROOF & ELEVATIONS
A-001	SITE PLAN
A-002	ENLARGED SITE PLANS
A-003	SITE DETAILS
A-005	LANDSCAPE PLAN
A-101	1st FLOOR PLAN
A-103	1st FLOOR EQUIPMENT & SIGNS PLAN
A-110	ROOF PLAN

KEYPLAN



SHEET NUMBER	SHEET NAME
A-120	1st FLOOR RCP
A-201	BUILDING ELEVATIONS
A-202	BUILDING ELEVATIONS
A-301	BUILDING SECTIONS
A-302	BUILDING SECTIONS
A-303	BUILDING SECTIONS
A-401	ENLARGED PLANS
A-420	RR PLANS & ELEVATIONS
N-430	WALL SECTIONS
\-431	WALL SECTIONS
\- 501	PLAN DETAILS
\-601	ROOM FINISH SCHEDULE
ı - 610	WALL TYPES
N-620	DOOR SCHEDULES, ELEVATIONS & DETAILS
A-630	WINDOWS SCHEDULES, ELEVATIONS & DETAILS
A-701	MILLWORK ELEVS & DETAILS

SHEET LIST - ROOF & ENCLOSURE		
SHEET NUMBER	SHEET NAME	
R-301	MASONRY AND WINDOW DETAILS	
R-302	ROOF DETAILS	
R-303	ROOF DETAILS	
Grand total: 3		
9	SHEET LIST - STRUCTURAL	
.=	SHEET LIST - STRUCTURAL Sheet Name	
Sheet Number		
Sheet Number	Sheet Name	
Sheet Number S001 S002	Sheet Name GENERAL NOTES	
.=	Sheet Name GENERAL NOTES TYP FND. DETAILS	

ROOF FRAMING PLAN

FOUNDATION DETAILS FRAMING DETAILS

S201 SD101

APPLICABLE BUILDING CODES:

2021 INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE

SHEET LIST - MECHANICAL		
Sheet Number Sheet Name		
MG-101	MECHANICAL NOTES & LEGENDS	
MP-101	MECHANICAL FLOOR PLAN	
MS-101	MECHANICAL SCHEDULES	
MC-101	MECHANICAL CONTROLS	
MC-102	MECHANICAL CONTROLS	
NIC-102		

SHEET LIST - ELECTRICAL	
SHEET NUMBER	SHEET NAME
EG-101	ELECTRICAL LEGEND
ES-101	ELECTRICAL SITE LIGHTING PLAN
EDP-101	ELECTRICAL DEMOLITION PLAN
EL-101	ELECTRICAL LIGHTING FLOOR PLAN
EP-101	ELECTRICAL POWER FLOOR PLAN
ER-101	ELECTRICAL RISER DIAGRAM
ED-101	ELECTRICAL DETAILS
Grand total: 7	•

SHEET LIST - PLUMBING		
Sheet Number	Sheet Name	
PG-101	PLUMBING LEGEND	
PG-101 P-100	PLUMBING LEGEND PLUMBING DEMOLITION	
P-100	PLUMBING DEMOLITION	

SHEET NUMBER SHEET NAME	
T000	TECHNOLOGY SYMBOLS & LEGEND
T001	TECHNOLOGY STE PLAN
T100	TECHNOLOGY DEMO FLOOR PLAN
T101	TECHNOLOGY 1st FLOOR PLAN
T301	TECHNOLOGY ENLARGED VIEWS
T401	TECHNOLOGY TYPICAL DETAILS
T402	TECHNOLOGY TYPICAL DETAILS
TA000	AUDIOVISUAL SYMBOLS & LEGEND
TA101	AUDIOVISUAL 1st FLOOR PLAN
TA601	AUDIOVISUAL TYPICAL DETAILS
TS000	SECURITY SYMBOLS & LEGEND
TS001	SECURITY PLAN
TS100	SECURITY DEMO FLOOR PLAN
TS101	SECURITY 1st FLOOR PLAN
TS401	SECURITY TYPICAL DETAILS
TS501	SECURITY SCHEDULES

Laredo College

Veterans Services Center

Sheridan Rd, Laredo, TX 78040

CONSTRUCTION DOCUMENTS

BOARD MEMBERS

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Dr. Maria Minerva "Minita" Ramirez, Laredo College President



CIVIL ENGINEERS

KCI Technologies Inc. 7109 N. Bartlett Ave., Suite 201 Laredo, TX 78041 (P)(956)-729-7844 edward.ochoa@kci.com

M.E.P. ENGINEERS

Trinity MEP Engineering 3533 Moreland Dr. Weslaco, Texas 78596 (P)(956)-973-0500 fidencio@trinitymep.com

Project number

STRUCTURAL ENGINEERS

9114 MCPHERSON RD. STE 2501 Synergy Structural Engineering, Inc. LAREDO, TX 78045 1119 Flores Ave. Suite 300 P: (956) 724-8123 Laredo, TX. 78040 memo@cavazosarch.com (P)(P) (956) 237 7908

TECHNOLOGY & SECURITY CONSULTANTS

victor@sinergy-se.com

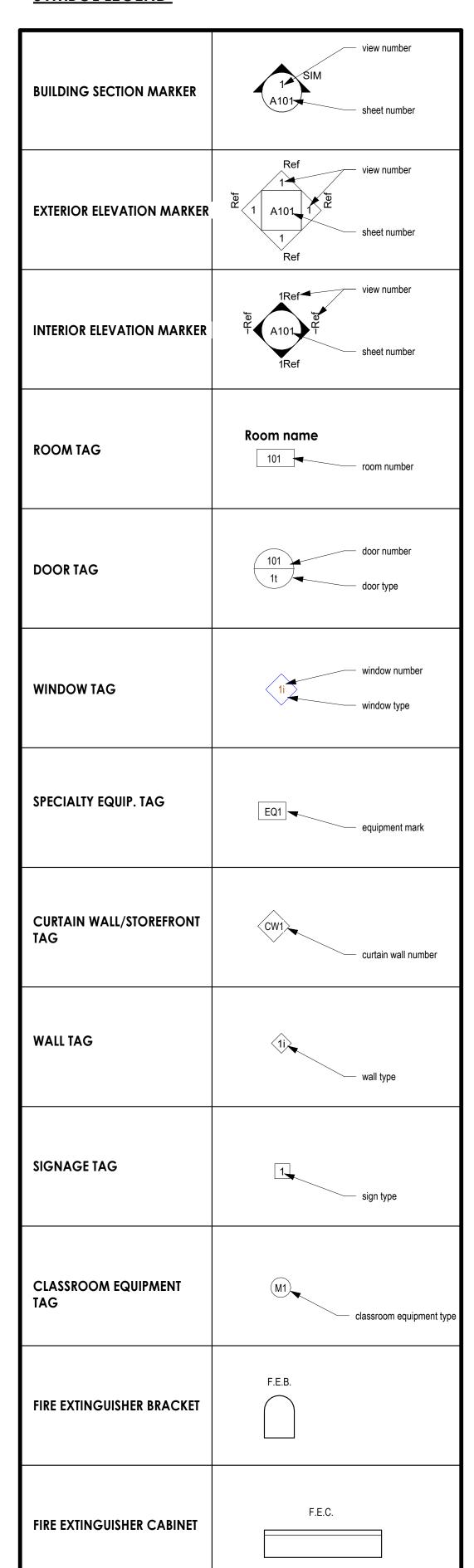
Combs Consulting Group 17806 IH-10 W, Northwest Side, Suite 300 San Antonio, TX 78257 (P)(210) 698 7887 eric.porto@combs-group.com

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23-15 10/25/24

SYMBOL LEGEND



INVERT

JOINT

JANITOR

JOB ORDER

LAMINATED

LAVATORY

LOW POINT

MAXIMUM

MIRROR

MONO MONOLITHIC

METAL

MWP MEMBRANE WATERPROOFING

MISCELANEOUS

MODULE LINE/METHAL

MASONRY OPENING

MODULE/MODULAR

METAL THRESHOLD

NOT IN CONTRACT

OUTSIDE DIAMETER

PROJECTION SCREEN

NOT TO SCALE ON TO OF, OVER

ON CENTER

OPENING

OPPOSITE

OVERHEAD

PLATE PLAM PLASTIC LAMINATE

PAINTED

RISER

ROOM

PARTITION

RETURN AIR

ROOF DRAIN REF REFERENCE REINF REINFORCE(MENT REQ'D REQUIRED

ROOFTOP UNIT SCHED SCHEDULE(D) SAND FINISH

PLAS PLASTER

PLYWD PLAYWOOD

MP MASONRY PARTITION

MARKER BOARD

MANUFACTURE/MANUFAC

MECHANICAL

INV

JAN

JOC

LAM

LAV

MAX

MB

MECH

MFGR

TURER

MIN

MIR

MISC

LATH

MO

MOD

MT

MTL

NIC

NTS

OD OPNG

OPP

OV

PS

PTD

PTN

RD

RM

RTU

CONTRACTOR

<u>ABBI</u>	<u>REVIATIONS</u>
@	AT
Ā/C	AIR CONDITIONING
ABV	ABOVE
ACOUS	ACOUSTIC(AL) AREA DRAIN
AD AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
	ALUMINUM
anod Ap	ANODIZED
	ACCESS PANEL APPROXIMATE
AVC	AUDIO VISUAL CONSOLE
RD	BOARD
	BUILDING
BLKG BM	BLOCKING BEAM
	BEARING
BRJ	BRICK RELIEF JOINT BRONZE
BRJ BRZ BYO	BRONZE
BYO	BY OWNER CABINET
CAB	CATCH BASIN
	CEMENT
CER	CERAMIC
	CHALKBOARD
CJ CL	CONTROL JOINT CENTER LINE
CLG	
CLO	CLOSET
CMU	CONCRET MASONRY UNIT
CO	CASED OPENING
CONC	COLUMN CONCRETE
	CONTINUOUS
	CONCTRACT(OR)
CPT	CARPET
CT	CARPET TILE
DET DF	DEATIL DRYWALL FURRING
DIA	DIAMETER
	DIMENSION
DN	DOWN
DP DB	DRYWALL PARTITION DOOR
DR DS	
DWG	DOWNSPOUT DRAWING
EA	EACH
EAV	
AUDIO/V EDF	ELECTRIC DRINKING
FOUNTA	
EJ	EXPANSION JOINT ELEVATION
EL	ELEVATION
	ELECTRICAL ELEVATOR OR
ELEV	
EQ	ELECTRICAL PANEL EQUAL
	EQUIPMENT
EXIS I	EXISTING EXPANSION
	EXTERIOR
FD	FLOOR DRAIN
FEB	FIRE EXTINGUISHER
W/BRACI	KET FIRE EXTINGUISHER
CABINET	
FIN	FIRE HOSE CABINET FINISH(ED)
FL	FLOOR
FM FR	FLOOR MAT FRAME
FTVM	FUTURE TV MONITOR
FURR	FURRED
	FIELD VERIFY

GAGE/GAUGE

GALVANIZED

GROUND ROD ACCESS

GALZED CERAMIC TILE

GYPSUM WALL BOARD

GLASS

GYPSUM

HANDICAP

HARDWARE

HORIZ HORIZONTAL

INSUL INSULATION

HEIGHT

INTERIOR

HOLLOW METAL

INSIDE DIMENSION

BOX

GWB GYP

HC

HDW

HM

INT

SHLVS SHELVES SHT SHEET SIM SIMILAR SINK SMOOTH SPEC SPECIFICATIONS/SPECIFI SQ SQUARE SERVICE SINK ST STL STAINLESS STEEL STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURE/STRUCTURA TOILET ACCESSORY TACKBOARD TOP OF CURB TEMP TEMPERED THK THICK TKBD TACKBOARD TRANS TRANSPARENT GENERAL CONTRACTOR TVM TV MONITOR TV PROJECTOR TYP TYPICAL U URINAL U.N.O. UNLESS NOTED OTHERWISE UNFIN UNFINISHED UV UNDERFLOOR VENT

VALVE CABINET

VISION PANEL

WATER CLOSET

WITH

WOOD

WOOJ WORK OUT ON JOB WP WATERPROOFING

WWF WELDED WIRE FABRIC

VERT VERTICAL

W/O WITHOUT

WDW WINDOW

VIN

WC

WD

GENERAL ARCHITECTURAL NOTES

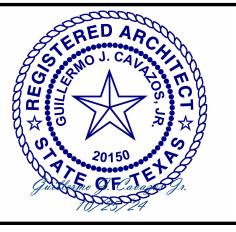
- DO NOT SCALE THE DRAWINGS.
- GENERAL CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY: WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES
- UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- "FLOOR LINE" REFERS TO TOP OF CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION
- SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS. AT SECURITY WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT, TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND ALL OTHER
- PENETRATIONS. LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE
- APPROXIMATE. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR
- DRAWINGS FOR ADDITIONAL NOTES. VERIFY SIZE/LOCATION/FINISH/FIRE-RATING, ETC, AND PROVIDE COMPLETE ALL REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE
- ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER ALL PENETRATIONS AND OPENINGS SHALL MEET WALL ASSEMBLY FIRE RATINGS.
- BOXES LOCATED ON OPPOSITE SIDE OF FIRE RATED WALLS & SECURITY WALLS SHALL BE SEPARATED BY A MIN. HORIZONTAL DISTANCE OF 36".
- REFER TO FINISH-SCHEDULES AND COLOR LISTS FOR WALL FINISH DESIGNATIONS.
- REFER TO GENERAL STRUCTURAL NOTES & PROJECT SPECIFICATIONS.
- SEE STRUCTURAL GENERAL NOTES FOR MINIMUM STUD DEPTH, THICKNESS, FLANGE WIDTH AND SPACING.
- REFER TO STRUCTURAL DRAWINGS FOR ALL REINFORCING INFORMATION. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT
- AND/OR FIRESTOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.
- MAXIMUM SPACING BETWEEN VERTICAL BRICK VENEER CONTROL JOINTS TO BE 20'-0" O.C. @ EXTERIOR WALLS & 20'-0" @ O.C. INTERIOR WALLS, TYPICAL UNLESS NOTED OTHERWISE.
- PRIOR TO BEGINNING METAL STUD PARTITIONS, LOCATE WALLS WITH CHALK-LINES. IF QUESTIONS OR CONCERNS ARISE, BRING TO ARCHITECTS ATTENTION.
- WHEN FINISH OR COLOR IS DESIGNATED "COLOR BY ARCHITECT", COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.

CAVAZOSARCHITECTS 9114 MCPHERSON RD. STE 2501 LAREDO, TX 78045 P: (956) 724-8123

memo@cavazosarch.com

Center 780 Services 'eterans

CONSTRUCTION DOCUMENTS



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No.	Description	Date

KEY PLAN

DRAWING INDEX & CONVENTIONS

Drawn by: Checker Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

G-001

EXCEPTIONS:

1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with

2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
3. In detention or correction facilities, grab bars shall not be required to be installed in housing or

Advisory 604.5 Grab Bars Exception 2. Reinforcement must be sufficient to permit the installation of rear and side wall grab bars that fully meet all accessibility requirements including, but not limited to, required length, installation height, and structural strength.

holding cells that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall

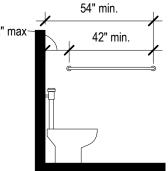


Figure 604.5.1 Side Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:

The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
 Where an administrative authority requires flush controls for flush valves to be located in a

2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

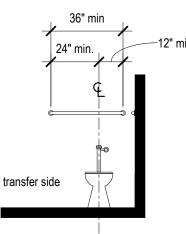


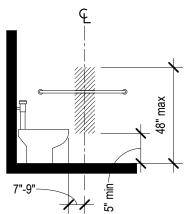
Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

Advisory 604.6 Flush Controls. If plumbing valves are located directly behind the toilet seat, flush valves and related plumbing can cause injury or imbalance when a person leans back against them. To prevent causing injury or imbalance, the plumbing can be located behind walls or to the side of the toilet; or if approved by the local authority having jurisdiction, provide a toilet seat lid.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.



igure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

Advisory 604.8.1.1 Size. The minimum space required in toilet compartments is provided so that a person using a wheelchair can maneuver into position at the water closet. This space cannot be obstructed by baby changing tables or other fixtures or conveniences, except as specified at 604.3.2 (Overlap). If toilet compartments are to be used to house fixtures other than those associated with the water closet, they must be designed to exceed the minimum space requirements. Convenience fixtures such as baby changing tables must also be accessible to people with disabilities as well as to other users. Toilet compartments that are designed to meet, and not exceed, the minimum space requirements may not provide adequate space for maneuvering into position at a baby changing

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floormounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

compartment for children's use that is greater than 65 inches (1650 mm) deep.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be selfclosing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch.

Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.1 General. Urinals shall comply with 605. Advisory 605.1 General. Stall-type urinals provide greater accessibility for a broader range of persons, including people of short stature.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

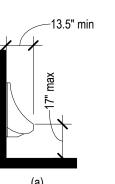
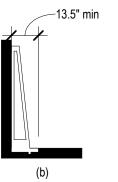


Figure 604.2 Height and Depth of Urinals



(a) wall hung type si

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

approach shall be provided.

606.1 General. Lavatories and sinks shall comply with 606.

Advisory 606.1 General. If soap and towel dispensers are provided, they must be located within the reach ranges specified in 308. Locate soap and towel dispensers so that they are conveniently usable by a person at the accessible lavatory.

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

EXCEPTIONS:

A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
 A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance

complying with 306.

3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:

provided that all of the following conditions are met:
(a) the cabinetry can be removed without removal or replacement of the fixture;
(b) the finish floor extends under the cabinetry; and

(c) the walls behind and surrounding the cabinetry are finished.
4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.

by children 5 years and younger.

6. The dip of the overflow shall not be considered in determining knee and toe clearances.

7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

EXCEPTIONS:

A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
 In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks

607 Bathtubs

607.1 General. Bathtubs shall comply with 607

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

EXCEPTIONS:

1. Grab bars shall not be required to be installed in a bathtub located in a bathing facility for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 607.4.

2. In residential dwelling units, grab bars shall not be required to be installed in bathtubs located in bathing facilities provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 607.4.

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C)

Advisory 607.6 Shower Spray Unit and Water. Ensure that hand-held shower spray units are capable of delivering water pressure substantially equivalent to fixed shower heads.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.1 General. Shower compartments shall comply with 608.

Advisory 608.1 General. Shower stalls that are 60 inches (1525 mm) wide and have no curb may increase the usability of a bathroom because the shower area provides additional maneuvering

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

EXCEPTION: A lavatory complying with 606 shall be permitted on one 30 inch (760 mm) wide minimum side of the clearance provided that it is not on the side of the clearance adjacent to the controls or, where provided, not on the side of the clearance adjacent to the shower seat.

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

EXCEPTIONS:

1. Grab bars shall not be required to be installed in a shower located in a bathing facility for a single occupant accessed only through a private office, and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 608.3.

2. In residential dwelling units, grab bars shall not be required to be installed in showers located in bathing facilities provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 608.3.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.

EXCEPTION: In residential dwelling units, seats shall not be required in transfer type shower compartments provided that reinforcement has been installed in walls so as to permit the installation of seats complying with 608.4.

608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

Advisory 608.5.2 Standard Roll-in Type Shower Compartments. In standard roll-in type showers without seats, the shower head and operable parts can be located on any of the three walls of the shower without adversely affecting accessibility.

608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall adjacent to the seat 27 inches (685 mm) maximum from the side wall behind the seat or shall be located on the back wall opposite the seat 15 inches (380 mm) maximum, left or right, of the centerline of the seat. Where a seat is not provided, the controls, faucets, and shower spray unit shall be installed on the side wall farthest from the compartment entry.

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

EXCEPTION: A fixed shower head located at 48 inches (1220 mm) maximum above the shower finish floor shall be permitted instead of a hand-held spray unit in facilities that are not medical care facilities, long-term care facilities, transient lodging guest rooms, or residential dwelling units.

Advisory 608.6 Shower Spray Unit and Water. Ensure that hand-held shower spray units are capable of delivering water pressure substantially equivalent to fixed shower heads. 608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

EXCEPTION: A threshold 2 inches (51 mm) high maximum shall be permitted in transfer type shower compartments in existing facilities where provision of a 1/2 inch (13 mm) high threshold would disturb the structural reinforcement of the floor slab.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a crosssection dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The

mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610 Sea

610.1 General. Seats in bathtubs and shower compartments shall comply with 610.

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.



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CONSTRUCTION DOCUMENTS



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OS AND ASSOCIATES ARCHITECTS

No.	Description	Date

KEY PLAN

ACCESSIBILITY

STANDARDS

Drawn by: JJM
Checked by: Checker

Project Issue Date: 10/25/24

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

Project number:

-3/31/2024 6:37:5

23-15

EXCEPTIONS:

safe ambulation.

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable,

firm, and slip resistant. 2. Areas of sport activity shall not be required to comply with 302.

Advisory 302.1 General. A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slipresistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion. pad. or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

Advisory 302.2 Carpet. Carpets and permanently affixed mats can significantly increase the amount of force (roll resistance) needed to propel a wheelchair over a surface. The firmer the carpeting and backing, the lower the roll resistance. A pile thickness up to 1/2 inch (13 mm) (measured to the backing, cushion, or pad) is allowed, although a lower pile provides easier wheelchair maneuvering. If a backing, cushion or pad is used, it must be firm. Preferably, carpet pad should not be used because the soft padding increases roll resistance.

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303 Changes in Level

303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply

1. Animal containment areas shall not be required to comply with 303.

2. Areas of sport activity shall not be required to comply with 303.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical. Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Advisory 303.3 Beveled. A change in level of 1/2 inch (13 mm) is permitted to be 1/4 inch (6.4 mm) vertical plus 1/4 inch (6.4 mm) beveled. However, in no case may the combined change in level exceed 1/2 inch (13 mm). Changes in level exceeding 1/2 inch (13 mm) must comply with 405 (Ramps) or 406 (Curb Ramps).

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

equipment provided that the decrease is essential to the function of the work being performed.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

comply with the requirements for handrails on walking surfaces.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

Advisory 403.6 Handrails. Handrails provided in elevator cabs and platform lifts are not required to

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

Advisory 404.1 General Exception. Security personnel must have sole control of doors that are eligible for the Exception at 404.1. It would not be acceptable for security personnel to operate the doors for people with disabilities while allowing others to have independent access.

404.2 Manual Doors, Doorways, and Manual Gates . Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:

finish floor or ground.

1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop. 2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

TABLE 404.2.4.1 Manuevering Clearances at Manual Swinging Doors & Gates

Type of Use		Minimum Maneuvering Clearance	
APPROACH DIRECTION	DOOR OR GATE SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	O inches ¹
From hinge side	Pull	60 inches	36 inches
From hinge side	Pull	54 inches	42 inches
From hinge side	Push	42 inches ²	22 inches ³
From latch side	Pull	48 inches ⁴	24 inches
From latch side	Push	42 inches ⁴	24 inches

Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

1. Add 12 inches (305 mm) if closer and latch are provided 2. Add 6 inches (150 mm) if closer and latch are provided.

Beyond hinge side. 4. Add 6 inches (150 mm) if closer is provided.

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

TABLE 404.2.4.2 Manuevering Clearances at Doorways without Doors or Gates, Manual Sliding Doors, and Manual Folding Doors

	Minimum Maneuvering Clearance		
APPROACH DIRECTION	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)	
rom front	48 inches	0 inches	
rom side ¹	42 inches	0 inches	
rom pocket/hinge side	42 inches	22 inches ²	
rom stop/latch door	42 inches	24 inches	

1. Doorway with no door only. 2. Beyond pocket/hinge side.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

Advisory 404.2.4.3 Recessed Doors and Gates . A door can be recessed due to wall thickness or because of the placement of casework and other fixed elements adjacent to the doorway. This provision must be applied wherever doors are recessed.

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances

shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:

1. Slopes not steeper than 1:48 shall be permitted. 2. Changes in level at thresholds complying with 404.2.5 shall be permitted. 404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

Raised thresholds and changes in level at doorways shall comply with 302 and 303.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.

2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also selflocking devices and operated by means of a key, electronic opener, or integral combination lock.

Advisory 404.2.7 Door and Gate Hardware. Door hardware that can be operated with a closed fist or a loose grip accommodates the greatest range of users. Hardware that requires simultaneous hand and finger movements require greater dexterity and coordination, and is not recommended.

404.2.8 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges . Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum. 2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

Advisory 404.2.9 Door and Gate Opening Force. The maximum force pertains to the continuous application of force necessary to fully open a door, not the initial force needed to overcome the inertia of the door. It does not apply to the force required to retract bolts or to disengage other devices used to keep the door in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

EXCEPTIONS:

1. Sliding doors shall not be required to comply with 404.2.10. 2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255 mm) bottom smooth surface height requirement.

shall not be required to comply with 404.2.10. 4. Existing doors and gates without smooth surfaces within 10 inches (255 mm) of the finish floor or ground shall not be required to provide smooth surfaces complying with 404.2.10 provided that if added kick plates are installed, cavities created by such kick plates are capped.

3. Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

404.3 Automatic and Power-Assisted Doors and Gates . Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and powerassisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.1 Clear Width. Doorways shall provide a clear opening of 32 inches (815 mm) minimum in power-on and power-off mode. The minimum clear width for automatic door systems in a doorway shall be based on the clear opening provided by all leaves in the open position.

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

EXCEPTION: Where automatic doors and gates remain open in the power-off condition, compliance with 404.2.4 shall not be required.

404.3.3 Thresholds. Thresholds and changes in level at doorways shall comply with 404.2.5.

404.3.4 Doors in Series and Gates in Series. Doors in series and gates in series shall comply with

404.3.5 Controls. Manually operated controls shall comply with 309. The clear floor space adjacent to the control shall be located beyond the arc of the door swing.

404.3.6 Break Out Opening. Where doors and gates without standby power are a part of a means of egress, the clear break out opening at swinging or sliding doors and gates shall be 32 inches (815 mm) minimum when operated in emergency mode.

EXCEPTION: Where manual swinging doors and gates comply with 404.2 and serve the same means of egress compliance with 404.3.6 shall not be required.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405. 405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to

TABLE 405.2 Maximum Ramp Slope and Rise for

Existing Sites, Buildings, a	and Facilities
Slope ¹	Max. Rise
teeper than 1:10 but not steeper than 1:8	3 inches
teeper than 1:12 but not steeper than 1:10	6 inches

1. A slope steeper than 1:8 is prohibited.

Advisory 405.2 Slope. To accommodate the widest range of users, provide ramps with the least possible running slope and, wherever possible, accompany ramps with stairs for use by those individuals for whom distance presents a greater barrier than steps, e.g., people with heart disease or limited stamina.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

Advisory 405.3 Cross Slope. Cross slope is the slope of the surface perpendicular to the direction of travel. Cross slope is measured the same way as slope is measured (i.e., the rise over the run).

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

between handrails shall be 36 inches (915 mm) minimum. **EXCEPTION:** Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width

that the decrease is essential to the function of the work being performed. **405.6 Rise.** The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

Advisory 405.7 Landings . Ramps that do not have level landings at changes in direction can create a compound slope that will not meet the requirements of this document. Circular or curved ramps continually change direction. Curvilinear ramps with small radii also can create compound cross slopes and cannot, by their nature, meet the requirements for accessible routes. A level landing is needed at the accessible door to permit maneuvering and simultaneously door operation.

Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing area.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

EXCEPTION: Within employee work areas, handrails shall not be required where ramps that are part of common use circulation paths are designed to permit the installation of handrails complying with 505. Ramps not subject to the exception to 405.5 shall be designed to maintain a 36 inch (915 mm) minimum clear width when handrails are installed.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

1. Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with 406.3. 2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp

run or stairway. 3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of ½ inch (13 mm) maximum within 10 inches (255 mm) horizontally of the minimum landing area specified in 405.7.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

Advisory 405.9.1 Extended Floor or Ground Surface. The extended surface prevents wheelchair

casters and crutch tips from slipping off the ramp surface. **405.9.2 Curb or Barrier.** A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

floor or ground surface.

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

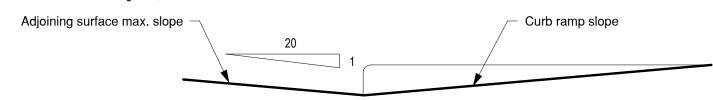


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

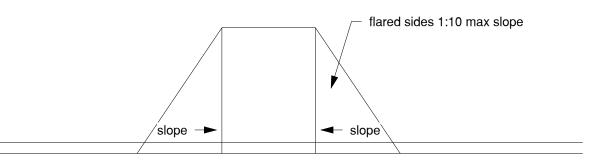


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares

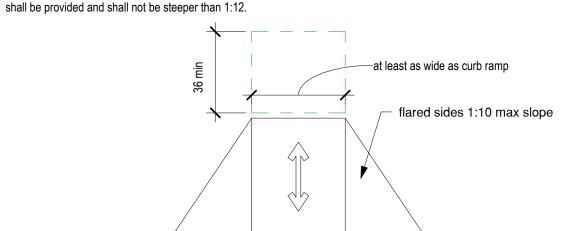


Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other welldefined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

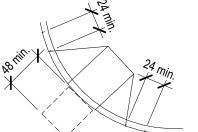


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.



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CONSTRUCTION DOCUMENTS



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No.	Description	Date

AVAZOS AND ASSOCIATES ARCHITECTS

KEY PLAN

ACCESSIBILITY STANDARDS

Drawn by: Checker Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference. see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

Advisory 407.1 General. The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners should note that the ASME Safety Code for Elevators and Escalators requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space . A clear floor or ground space complying with 305 shall be

Advisory 407.2.1.3 Clear Floor or Ground Space. The clear floor or ground space required at elevator call buttons must remain free of obstructions including ashtrays, plants, and other decorative elements that prevent wheelchair users and others from reaching the call buttons. The height of the clear floor or ground space is considered to be a volume from the floor to 80 inches (2030 mm) above the floor. Recessed ashtrays should not be placed near elevator call buttons so that persons who are blind or visually impaired do not inadvertently contact them or their contents as they reach for the call

407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.

EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.1.4.

Advisory 407.2.1.4 Location, Exception . A destination-oriented elevator system provides lobby controls enabling passengers to select floor stops, lobby indicators designating which elevator to use, and a car indicator designating the floors at which the car will stop. Responding cars are programmed for maximum efficiency by reducing the number of stops any passenger experiences

407.2.1.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.

1. Destination-oriented elevators shall not be required to comply with 407.2.1.5 provided that visible and audible signals complying with 407.2.2 indicating which elevator car to enter are provided. 2. Existing elevators shall not be required to comply with 407.2.1.5.

407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where incar signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation

2. In existing elevators, a signal indicating the direction of car travel shall not be required

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area

adjacent to the hall call button.

1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.

2. Existing elevators shall not be required to comply with 407.2.2.2 407.2.2.3 Audible Signals . Audible signals shall sound once for the up direction and twice for the

down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal annunciators shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The audible signal and verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call button.

. Destination-oriented elevators shall not be required to comply with 407.2.2.3 provided that the

audible tone and verbal announcement is the same as those given at the call button or call button 2. Existing elevators shall not be required to comply with the requirements for frequency and dB range of audible signals.

407.2.2.4 Differentiation. Each destination-oriented elevator in a bank of elevators shall have audible and visible means for differentiation.

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

407.3 Elevator Door Requirements. Hoistway and car doors shall comply with 407.3.

407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.

EXCEPTION: Existing manually operated hoistway swing doors shall be permitted provided that they comply with 404.2.3 and 404.2.9. Car door closing shall not be initiated until the hoistway door

407.3.3 Reopening Device. Elevator doors shall be provided with a reopening device complying with 407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

EXCEPTION: Existing elevators with manually operated doors shall not be required to comply with

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.2 Contact. The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation: T = D/(1.5 ft/s) or T = D/(455 mm/s) = 5 seconds minimum where T equals the total time in secondsand D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

EXCEPTIONS:

1. For cars with in-car lanterns, T shall be permitted to begin when the signal is visible from the point 60 inches (1525 mm) directly in front of the farthest hall call button and the audible signal is

2. Destination-oriented elevators shall not be required to comply with 407.3.4.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

EXCEPTION: In existing elevators, a power-operated car door complying with 404.2.3 shall be

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4. **407.4.1 Car Dimensions**. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

EXCEPTION: Existing elevator car configurations that provide a clear floor area of 16 square feet (1.5 m2) minimum and also provide an inside clear depth 54 inches (1370 mm) minimum and a clear width 36 inches (915 mm) minimum shall be permitted.

Table 407.4.1 Elevator Car Dimensions Minimum Dimensions

1. A tolerance of minus 5/8 inch (16 mm) is permitted.

2. Other car configurations that provide a turning space complying with 304 with the door closed shall be

407.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination . The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and

EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.6 is

provided, existing car operating panels shall not be required to comply with 407.4.6. **407.4.6.1 Location.** Controls shall be located within one of the reach ranges specified in 308.

shall comply with 407.4.7.

1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the

2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches (1370 mm) maximum above the finish floor where a parallel approach is provided.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall

EXCEPTION: In existing elevators, buttons shall be permitted to be recessed.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.2.2 Arrangement. Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided they shall read from left to right.

407.4.6.3 Keypads. Car control keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.4.6.4 Emergency Controls. Emergency controls shall comply with 407.4.6.4.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm)

minimum above the finish floor. **407.4.6.4.2 Location.** Emergency controls, including the emergency alarm, shall be grouped at the

bottom of the panel. **407.4.7 Designations and Indicators of Car Controls.** Designations and indicators of car controls

EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.7 is

provided, existing car operating panels shall not be required to comply with 407.4.7.

407.4.7.1 Buttons. Car control buttons shall comply with 407.4.7.1

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.2 Location. Raised character and braille designations shall be placed immediately to the left of the control button to which the designations apply.

EXCEPTION: Where space on an existing car operating panel precludes tactile markings to the left of the controls, markings shall be placed as near to the control as possible.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

Table 407.4.7.1.3 Elevator Control Button Identification

407.4.7.1.4 Visible Indicators. Buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indication shall extinguish when the car arrives at the designated floor.

407.4.7.2 Keypads. Keypads shall be identified by characters complying with 703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and in other aspects comply with Table 703.3.1.

407.4.8 Car Position Indicators. Audible and visible car position indicators shall be provided in

407.4.8.1 Visible Indicators. Visible indicators shall comply with 407.4.8.1.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

407.4.8.1.3 Floor Arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.

EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.4.8.1.3 provided that the visible indicators extinguish when the call has been answered.

407.4.8.1.4 Destination Indicator. In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.

407.4.8.2 Audible Indicators. Audible indicators shall comply with 407.4.8.2.

407.4.8.2.1 Signal Type. The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.

EXCEPTION: For elevators other than destination-oriented elevators that have a rated speed of 200 feet per minute (1 m/s) or less, a non-verbal audible signal with a frequency of 1500 Hz maximum which sounds as the car passes or is about to stop at a floor served by the elevator shall

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000

407.4.9 Emergency Communication. Emergency two-way communication systems shall comply with 308. Tactile symbols and characters shall be provided adjacent to the device and shall comply

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

601 General

601.1 Scope. The provisions of Chapter 6 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

602 Drinking Fountains

602.1 General. Drinking fountains shall comply with 307 and 602.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

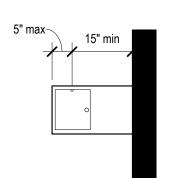


Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum

Advisory 602.6 Water Flow. The purpose of requiring the drinking fountain spout to produce a flow of water 4 inches (100 mm) high minimum is so that a cup can be inserted under the flow of water to provide a drink of water for an individual who, because of a disability, would otherwise be incapable of using the drinking fountain.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish

5 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

603 Toilet and Bathing Rooms

603.1 General. Toilet and bathing rooms shall comply with 603.

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room. 603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

EXCEPTIONS:

1. Doors to a toilet room or bathing room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space or clearance provided the swing of the door can be reversed to comply with 603.2.3. 2. Where the toilet room or bathing room is for individual use and a clear floor space complying with 305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

Advisory 603.2.3 Door Swing Exception 1 . At the time the door is installed, and if the door swing is reversed in the future, the door must meet all the requirements specified in 404. Additionally, the door swing cannot reduce the required width of an accessible route. Also, avoid violating other building or life safety codes when the door swing is reversed.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people,

including children. In order for mirrors to be usable by people who are ambulatory and people who

use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm)

604 Water Closets and Toilet Compartments

maximum above the finish floor.

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8. EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

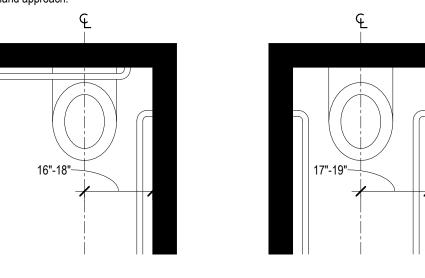


Figure 604.2 Water Closet Location

(a) wheelchair accessible water

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with

(b) ambulatory accessible water

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from

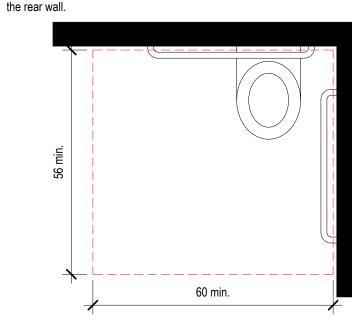


Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

EXCEPTION: In residential dwelling units, a lavatory complying with 606 shall be permitted on the rear wall 18 inches (455 mm) minimum from the water closet centerline where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

Advisory 604.3.2 Overlap. When the door to the toilet room is placed directly in front of the water closet, the water closet cannot overlap the required maneuvering clearance for the door inside the

Figure 604.3.2 (Exception) Overlap of Water Closet Clearance in Residential Dwelling Units

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm)

minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be

sprung to return to a lifted position. 1. A water closet in a toilet room for a single occupant accessed only through a private office and

not for common use or public use shall not be required to comply with 604.4. 2. In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the finish floor measured to the top of the



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No.	Description	Date

KEY PLAN

ACCESSIBILITY STANDARDS

Drawn by: Checker Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

1/2" = 1'-0"

702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

EXCEPTION: Fire alarm systems in medical care facilities shall be permitted to be provided in accordance with industry practice.

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4. Advisory 703.2 Raised Characters. Signs that are designed to be read by touch should not have sharp or abrasive edges.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

EXCEPTION: Where separate raised and visual characters with the same information are provided, raised character height shall be permitted to be 1/2 inch (13 mm) minimum.

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

TABLE 703.3.1 Braille Dimensions

Measurement Range	Minimum in Inches to Maximum in Inches
Dot base diameter	0.059 to 0.063
Distance between two dots in the same cell ¹	0.090 to 0.100
Distance between corresponding dots in adjacent cells ¹	0.241 to 0.300
Dot height	0.025 to 0.037
Distance between corresponding dots from one cell directly below 1	0.395 to 0.400

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with

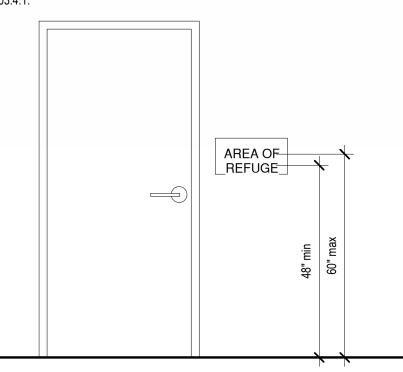


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

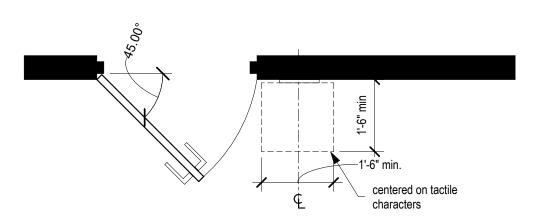


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

EXCEPTION: Where visual characters comply with 703.2 and are accompanied by braille complying with 703.3, they shall not be required to comply with 703.5.2 through 703.5.9.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

Advisory 703.5.1 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and its background colors and textures.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase

TABLE 703.5.5. Visual Character Height

Height to Finish Floor or Ground From Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
	less than 72 inches	5/8 inch
40 inches to less than or equal to 70 inches	72 inches and greater	5/8 inch, plus 1/8 inch per foot of viewing distance above 72 inches
	less than 180 inches	2 inches
Greater than 70 inches to less than or equal to 120 inches	180 inches and greater	2 inches, plus 1/8 inch per foot of viewing distance above 180 inches
	less than 21 feet	3 inches
greater than 120 inches	21 feet and greater	3 inches plus 1/8 inch per foot of viewing distance above 21 feet

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

EXCEPTION: Visual characters indicating elevator car controls shall not be required to comply with

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light

Advisory 703.6.2 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

Advisory 703.7.1 Finish and Contrast . Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

705 Detectable Warnings

square grid.

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-tocenter spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-tobase spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces

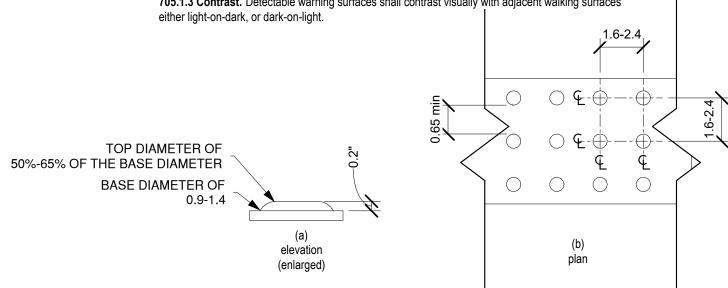


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

208 Parking Spaces

208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with 208.

EXCEPTION: Parking spaces used exclusively for buses, trucks, other delivery vehicles, law enforcement vehicles, or vehicular impound shall not be required to comply with 208 provided that lots accessed by the public are provided with a passenger loading zone complying with 503.

208.2 Minimum Number. Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

TABLE 208.2 PARKING SPACES

Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over

Advisory 208.2 Minimum Number. The term "parking facility" is used Section 208.2 instead of the term "parking lot" so that it is clear that both parking lots and parking structures are required to comply with this section. The number of parking spaces required to be accessible is to be calculated separately for each parking facility; the required number is not to be based on the total number of parking spaces provided in all of the parking facilities provided on the site.



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Center Services Ŏ eterans

CONSTRUCTION DOCUMENTS



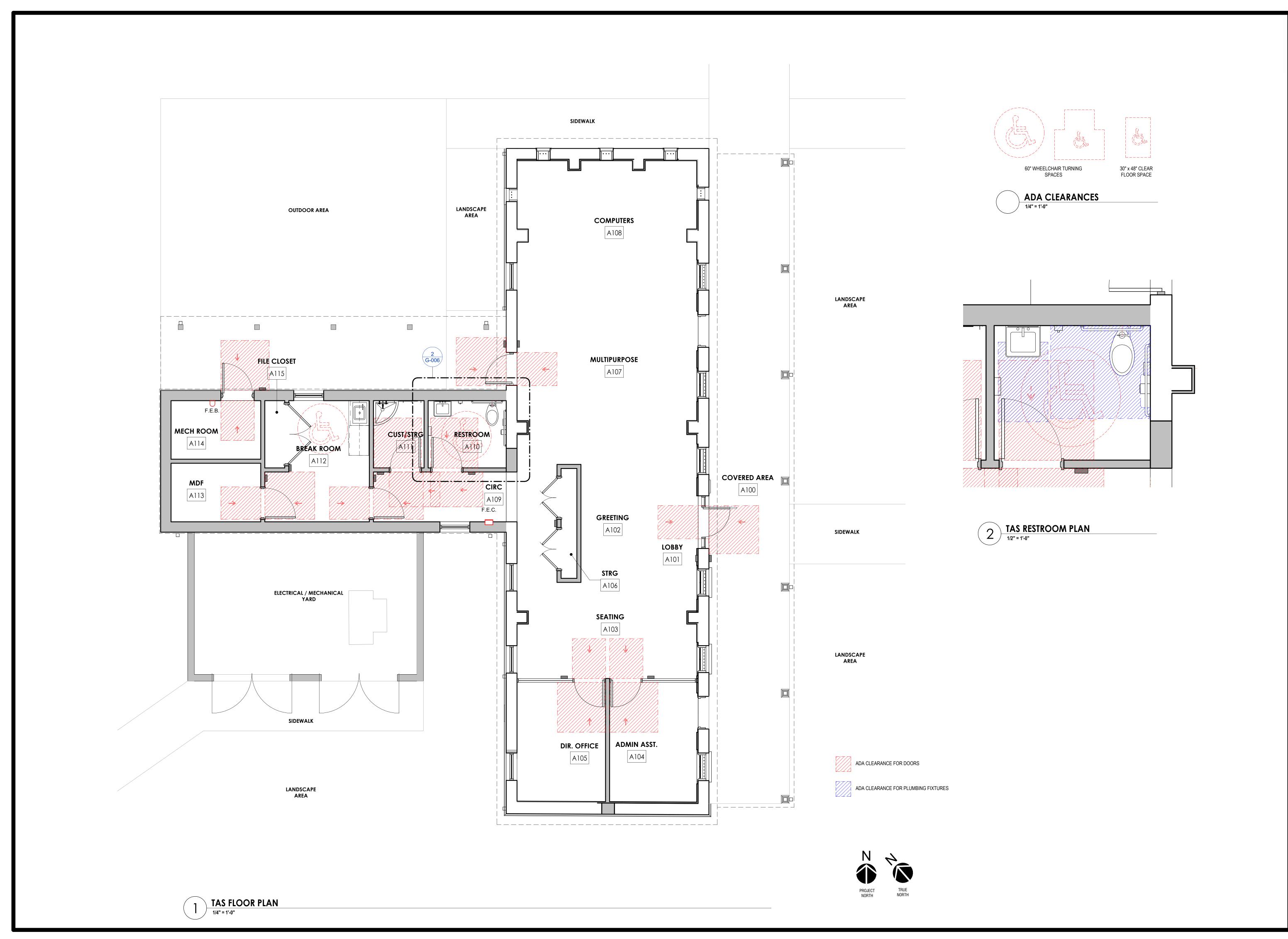
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No.	Description	Date

KEY PLAN

ACCESSIBILITY STANDARDS

Drawn by: Checker Checked by: 23-15 **Project number:** 10/25/24 Project Issue Date:





Center Veterans Services

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Description

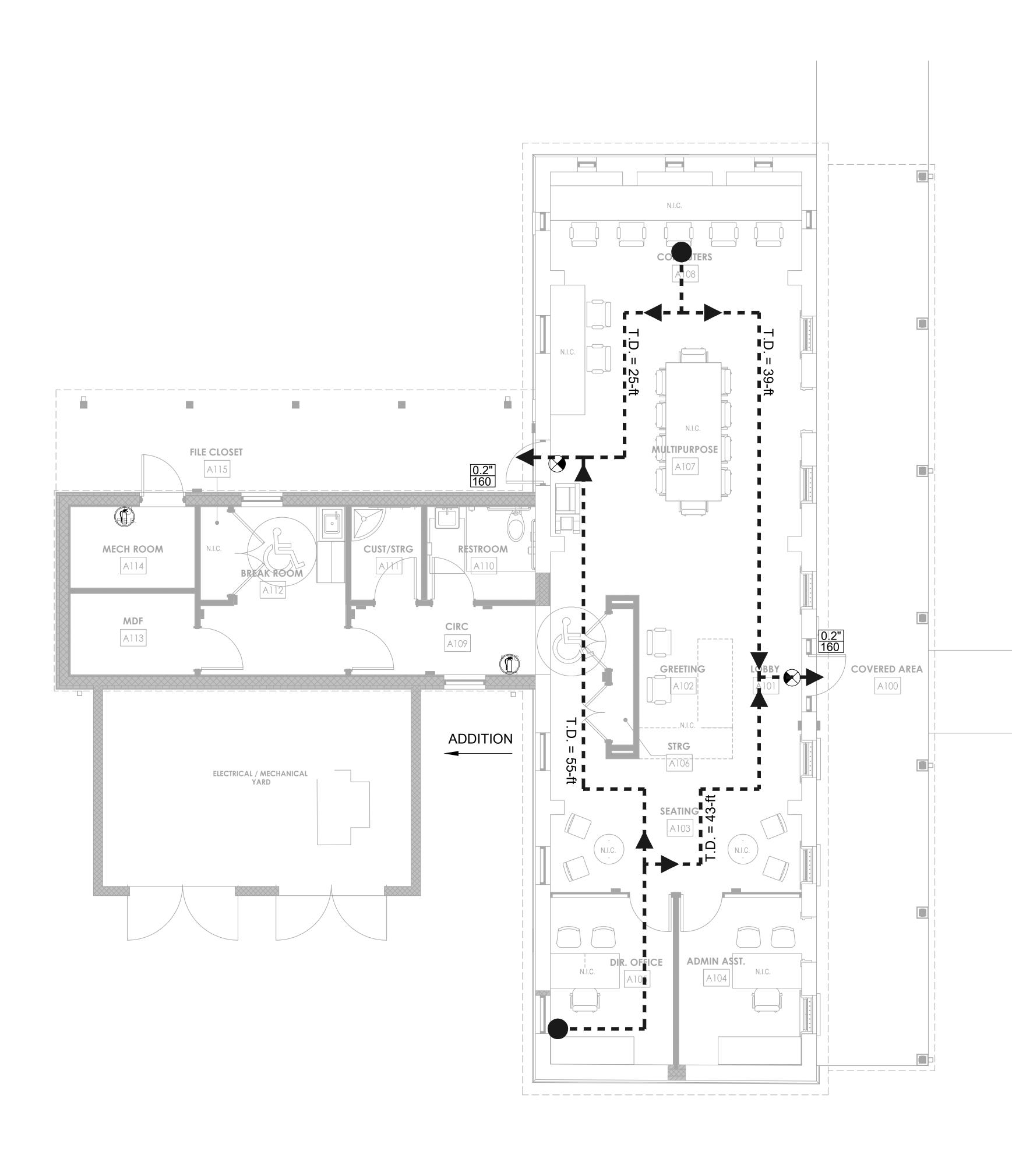
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KEY PLAN

TAS FLOOR PLAN

Drawn by: Checker Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

G-006 As indicated





Center

Veterans Services

78040

Laredo College Sheridan Rd, Lare

CONSTRUCTION DOCUMENTS

APPLICABLE LIFE SAFETY CODES

- 1. 2018 International Building Code
- 2. 2018 International Fire Code
- 3. COL Amendments

BUILDING NOTES

- 1. Type of Construction: Type VB
- 2. Height in Stories: 1
- 3. Building Area: 2,064 sf
- 4. Primary Occupancy: Group B
- 5. Fire Protection: None
- 6. Fire Alarm: None
- 7. Calculated Occupant Load: 24 occupants

ALLOWABLE HEIGHT & AREA

- 1. Occupancy: Group B
- 2. Construction Type: Type VB
- 3. Allowable Height: 40-ft; 2 stories
- 4. Frontage Increase: Not needed
- 5. Sprinkler Increase: No
- 6. Total Building Allowable Area: 9,000 sf

MEANS OF EGRESS

- 1. Required Exits: 1
- 2. Provided Exits: 2
- 3. Exit Capacity: 320 occupants
- 4. Allowed Travel Distance: 250-ft
- 5. Allowed Common Path of Travel: 75-ft
- 6. Allowed Dead End: 20-ft

SYMBOLS & ABBREVIATIONS

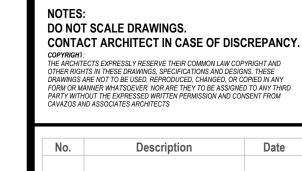


EGRESS FACTOR EGRESS CAPACITY (# OCCUPANTS)

● - - - → TRAVEL DISTANCE (T.D.)

EXIT SIGNAGE (Primary exit access doors and exits identified only. See electrical plans/specifications for final #, location, type, & directional indicators)

PORTABLE FIRE EXTINGUISHER
(Proposed locations. Coordinate final required # & location with fire code official)





KEY PLAN

LIFE SAFETY PLAN

Drawn by:JJMRChecked by:GCProject number:23-15Project Issue Date:10-24-24

LS-1.0

Scale: $\frac{1}{4}$ " = 1"

1 LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION

GENERAL

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT THE NOTICE OF INTENT (NOI) HAS BEEN FILED AND POSTED ONSITE, IF REQUIRED.

CONTRACTOR IS REQUIRED TO VISIT SITE AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PLACING A BID. BID SHALL BE ALL INCLUSIVE OF WORK REQUIRED TO

CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT NO. 24G034 "GEOTECHNICAL ENGINEERING STUDY, LAREDO COLLEGE VETERANS CENTER FORT MCINTOSH CAMPUS WEST END WASHINGTON STREET" LAREDO, TEXAS, BY CASTLE ENGINEERING & TESTING, LLC, 956-727-3530.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION AND THE PROPER REMOVAL/DISPOSAL OF ALL ABOVE GROUND ITEMS INCLUDING BUT NOT LIMITED TO CONCRETE CHANNELS, IRRIGATION PIPES, IRRIGATION APPARATUS, TREES, TRASH, AND MISCELLANEOUS DEBRIS. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE THE EXISTING FACILITIES. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES VERIFYING UTILITIES ARE SHUT OFF OR DISCONNECTED, AND ALL POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO ENSURE THE SAFEST ENVIRONMENT FOR ALL PERSONNEL. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE PERMITTING AUTHORITIES.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FACILITIES FROM DAMAGE AND COST OF REPAIR TO EXISTING FACILITIES AND IMPROVEMENTS AS A RESULT OF THE CONTRACTOR'S WORK. ANY EXISTING PAVEMENT, CURBS, BUILDINGS, SIGNS, SIDEWALKS, WALLS, FENCES, UTILITY INFRASTRUCTURE, TREES, AND ETC. DAMAGED OR REMOVED WILL BE REPAIRED/REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO EQUAL OR BETTER CONDITION.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTORS PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH, AS MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITIES UNDER THE REQUIREMENTS OF THE CITY OF LAREDO. THIS INCLUDES ALL NECESSARY PERMITS FOR CONSTRUCTION BOTH INSIDE AND OUTSIDE OF THE CONSTRUCTION PROPERTY BOUNDARIES. NO CONSTRUCTION ACTIVITIES SHALL COMMENCE UNTIL PROPER CLEARANCE IS PROVIDED BY THE APPROPRIATE CITY OF LAREDO DEPARTMENTS AND/OR TEXAS DEPARTMENT OF TRANSPORTATION.

CONTRACTOR SHALL INCLUDE IN HIS BID ANY AND ALL NECESSARY TESTING PRIOR TO, DURING AND AFTER CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL INCLUDE IN HIS BID CONSTRUCTION STAKE OUT. CONSTRUCTION STAKING SHALL BE PERFORMED BY CIVIL ENGINEERING CONSULTANTS.

CONTRACTOR SHALL ADHERE TO ALL GEOTECHNICAL RECOMMENDATIONS FOR ROAD SECTIONS, COMPACTION AND TESTING. CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES WHILE WORKING ONSITE TO ENSURE SAFETY FOR THE PUBLIC.

ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT NOT SPECIFICALLY COVERED ON THESE PLANS SHALL CONFORM TO ALL APPLICABLE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATION MANUAL SPECIFICATIONS.

CONTROL / BENCHMARK DATA

THE CONTRACTOR SHALL LAY OUT THE WORK FROM THE OWNER'S ESTABLISHED PROPERTY BOUNDARY CONTROL AND BENCHMARKS, AS INDICATED ON THE CONTROL DATA SHEET. THE CONTRACTOR SHALL COORDINATE ANY ADDITIONAL DIMENSIONS NEEDED WITH THE ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES.

UTILITIES

ALL UTILITIES INSTALLATION SHALL COMPLY WITH THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - DIVISION D

AS REQUIRED BY THE "TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", TEXAS ONE CALL MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

LOCATIONS OF UTILITIES SHOWN HEREIN WERE DERIVED FROM BEST AVAILABLE SOURCES AND FIELD SURVEYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION DEPTH, AND SIZES OF ALL UNDERGROUND UTILITIES, AND STRUCTURES PRIOR TO CONSTRUCTION AND SHALL BE LIABLE FOR ANY DAMAGES OR DOWN TIME CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES ELECTRICAL, CABLE AND PHONE LINE EXTENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRIMARY AND SECONDARY UTILITY TRENCHING AND CONDUIT INSTALLATIONS AS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR FINAL LOCATIONS. UNDERGROUND UTILITY LINES SHOWN ON THE PLANS CONSTITUTE AN ATTEMPT BY THE ENGINEER TO LOCATE THESE UTILITIES FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND UTILITY LINES AND MAKE PROVISIONS FOR THEIR PROTECTION. ALL UNDERGROUND ELECTRICAL, TELEPHONE, AND CABLE LINES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO DETERMINE LOCATIONS, DEPTHS, AND LINE SIZES. THE CONTRACTOR SHALL PROVIDE TRENCHING AND BACKFILL FOR THE UTILITY COMPANIES. AS REQUIRED.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT BOTH OVERHEAD AND UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE CONSTRUCTION AREA. THE EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT CERTAIN. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AREA UTILITY COMPANIES FOR EXACT LOCATIONS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OR COMMENCING ANY WORK SO AS TO PREVENT ANY DAMAGE OR INTERFERENCE WITH PRESENT UTILITIES.

WHEN THE CONTRACTOR IS WORKING NEAR ANY POWER LINES, IT IS HIS/HER RESPONSIBILITY TO COMPLY WITH THE APPROPRIATE SECTIONS OF TEXAS STATE LAW AND FEDERAL REGULATIONS RELATING TO THE TYPE OF WORK INVOLVED.

THE CONTRACTOR SHALL SUBMIT THE UTILITY LOCATE CONFIRMATION NUMBER TO ENGINEER PRIOR COMMENCING CONSTRUCTION ACTIVITIES.

CLEARANCE FROM EACH UTILITY COMPANY SHALL BE OBTAINED PRIOR TO CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY FIELD CHANGES IN THE UTILITY LINE GRADES TO ACHIEVE THE DESIGN REQUIRED.

ANY OTHER WORK REQUIRED TO ACCOMPLISH THESE CHANGES IN GRADE WILL BE INCLUDED IN THE PRICE OF THE LINE IN PLACE.

ANY DAMAGE TO CITY OR PRIVATE UTILITY LINES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, THE CITY AND/OR APPROPRIATE UTILITY COMPANY.

REPAIRS TO THESE UTILITY LINES WILL BE AT THE DIRECTION OF THE CITY AND/OR THE UTILITY COMPANY AFFECTED AND WILL BE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL REMOVE, REPLACE AND RESTORE TO ORIGINAL CONDITION, ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL COORDINATE ANY UTILITY WORK DONE WITHIN CITY R.O.W. INCLUDING BUT NOT LIMITED TO TRENCHING AND CONNECTING TO EXISTING UTILITY

INFRASTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING TO EXISTING CONDITION ALL UTILITY DAMAGES. IN THE CASE OF A UTILITY CONNECTION, THE CONTRACTOR SHALL INSTALL ANY CONNECTIONS AS PER THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL.

IF ANY OVERHEAD OR UNDERGROUND ELECTRICAL LINES NEED TO BE DE-ENERGIZED, THE CONTRACTOR SHALL CALL THE POWER COMPANY TO DO THIS WORK.

CONTRACTOR SHALL INCLUDE IN HIS BID THE REQUIRED ADJUSTMENT OF ALL VALVES, VALVE COVERS, MANHOLE LIDS, FIRE HYDRANTS, CLEANOUTS, TELEPHONE PEDESTALS. AND ANY OTHER MISC. UTILITY ITEM WHETHER SHOWN ON THESE PLANS OR NOT.

ALL UTILITY BACKFILL SHALL CONFORM WITH CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS.

CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH EXTENSION OF SERVICES TO THE PROPOSED FACILITY INCLUDING GAS, TELEPHONE, DATA, CABLE, AND ELECTRICAL.

ALL ELECTRICAL UTILITY CONDUIT SHALL BE 4" GREY SCHEDULE 40 PIPE.

WATER AND SEWER UTILITY LINE CROSSINGS SMALLER THAN 6" ARE NOT SHOWN ON PROFILE VIEWS. CONTRACTOR IS RESPONSIBLE TO LOCATE AND ADJUST THESE LINES AS PER CITY OF LAREDO STANDARD SPECIFICATIONS AND TCEQ REQUIREMENTS.

EARTHWORK AND GRADING

ALL PROJECT ELEVATIONS ARE ESTABLISHED BASED ON THE PROVIDED CONTROL ELEVATIONS. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION THE ROADWAY SECTIONS, BUILDING SUBGRADE PREPARATION, AND ANY OTHER ELEVATIONS NOT PART OF THE PROPOSED NATURAL GROUND WHEN MAKING CUT AND FILL CALCULATIONS. ALL GRADING OF PROPOSED NATURAL GROUND SHALL BE GRADED TO DRAIN AND SHALL NOT EXCEED 3:1 SLOPE UNLESS OTHERWISE NOTED ON THE PLANS.

CONTRACTOR SHALL SAW-CUT AND/OR ADJUST EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE.

CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CONDITIONS DURING ALL CONSTRUCTION PHASES OF THE PROJECT UNTIL THE PERMANENT DRAINAGE FACILITIES ARE CONSTRUCTED AND READY TO USE. HANDLE ALL EXCAVATED AND STOCKPILED MATERIAL IN SUCH A WAY THAT IT WILL NOT BLOCK DRAINAGE OR DAMAGE EXISTING

THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIREMENTS SET FORTH BY THE GEOTECHNICAL REPORT. ALL DEWATERING AND ROCK CUTTING MEASURES SHALL BE PART OF BASE BID UNLESS OTHERWISE IDENTIFIED ON THE PLANS.

CONTRACTOR SHALL ENSURE THE SAFETY OF WORKERS DURING EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL INSTALL TRENCH SAFETY MEASURES WHEN TRENCHING MORE THAN 5 FEET OF DEPTH. TRENCHING MORE THAN 20 FEET OF DEPTH REQUIRES A PROTECTIVE SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR BASED ON TABULATED DATA PREPARED AND/OR APPROVED BY A REGISTERED PROFESSIONAL ENGINEER IN ACCORDANCE WITH OSHA REGULATION 1926.652(B) AND (C).

WATER DISTRIBUTION SYSTEMS

ALL WATER LINE IMPROVEMENTS SHALL COMPLY WITH THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - DIVISION D, SECTION 100 & TCEQ

THE EXISTING WATER DISTRIBUTION SYSTEM SHOWN ON THE PLANS IS THE ENGINEER'S BEST ATTEMPT AT RECREATING THE EXISTING WATER DISTRIBUTION SYSTEM. THE CONTRACTOR IS RESPONSIBLE OF FIELD VERIFYING THE LOCATION OF ANY WATER LINE COMPONENTS AND REPORTING ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER AND THE CITY OF LAREDO UTILITIES DEPARTMENT. ANY DAMAGES TO THE REMAINING EXISTING WATER DISTRIBUTION COMPONENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED TO EXISTING CONDITION AS DEEMED ADEQUATE BY ENGINEER AND CITY OF LAREDO UTILITIES DEPARTMENT.

ALL GATE VALVES, AND MANHOLES SHALL HAVE A CONCRETE COLLAR AS PER CITY OF LAREDO SPECIFICATIONS.

WET CONNECTIONS MUST BE MADE IN THE PRESENCE OF THE CITY OF LAREDO UTILITIES INSPECTOR. PROVIDE AT LEAST 48 HOUR ADVANCE NOTICE.

ALL MECHANICAL RESTRAINT JOINT FITTINGS AND VALVES SHALL BE MADE IN THE USA AND HAVE 316 SS BOLTS AND NUTS.

CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS AND PAYING ALL FEES REQUIRED FOR THE PROPER INSTALLATION OF THE WATER METER AND BACKFLOW

CONTRACTOR SHALL ADJUST ALL EXISTING METER BOXES, VALVES, COVERS, WATER DISTRIBUTION MANHOLES, AIR RELEASE VALVE ASSEMBLIES, ETC. TO PROPOSED **GRADES**

CONNECT ALL WATER SERVICES AFTER PRESSURE & BACTERIOLOGICAL TESTS ARE APPROVED.

THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF LAREDO UTILITIES DEPARTMENT ANY VALVE SHUT-OFF LOCATIONS AND SHUT-OFF TIMES.

FOR ALL WATER TIE-IN CONNECTIONS, THE CONTRACTOR SHALL PROVIDE MECHANICAL JOINT RESTRAINED FITTINGS. ALL RESTRAINTS AND CORRESPONDING LENGTHS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE APPROPRIATE USE AND RESTRAINT LENGTH. REQUIREMENTS FROM THE MANUFACTURER. SHALL THERE BE ANY DISCREPANCIES BETWEEN THE RESTRAINT LENGTH CALCULATIONS SHOWN ON THESE PLANS AND THE MANUFACTURER'S RECOMMENDATIONS, THE MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN. THE CONTRACTOR MAY USE MEGALUG RESTRAINTS OR EQUAL. IF OTHER IS USED, CONTRACTOR SHALL PROVIDE CALCULATIONS TO THE ENGINEER DEMONSTRATING EQUIVALENT OR BETTER DESIGN SPECIFICATIONS AND SHALL BE INCLUDED IN A SUBMITTAL FOR APPROVAL

DISCREPANCIES BETWEEN THIS NOTE AND TCEQ REGULATIONS EXIST, TCEQ REGULATIONS SHALL GOVERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL TCEQ **REGULATIONS PRIOR TO UTILITY WORK** PROPOSED FIRE HYDRANTS CALLED OUT ON THESE PLANS IMPLY THE INSTALLATION OF A COMPLETE FIRE HYDRANT ASSEMBLY AS PER THE CITY OF LAREDO STANDARD

THE CONTRACTOR SHALL MAINTAIN MINIMUM THE WALL-TO-WALL SEPARATION BETWEEN SEWER AND WATER UTILITIES AS REQUIRED BY TCEQ REGULATIONS. IF ANY

SPECIFICATION MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF INSTALLING ALL FIRE HYDRANT ASSEMBLIES INCLUDING THE CONNECTION TO THE MAIN

ALL WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED AS PER THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - DIVISION D, SECTION 116 & SECTION 118. CONNECTIONS TO EXISTING WATER DISTRIBUTION SYSTEMS CAN ONLY OCCUR AFTER THE CITY OF LAREDO UTILITIES DEPARTMENT HAS BEEN NOTIFIED OF PROPOSED CONNECTION, HAS APPROVED TESTING PROCEDURES, AND ALLOWS SUCH CONNECTION BY THE CONTRACTOR.

ALL WATER SERVICES SHALL BE MAINTAINED ACTIVE THROUGH THE DURATION OF THE PROJECT. ANY WORK THAT REQUIRES THE WATER SERVICES TO BE SHUT-OFF SHALL BE COORDINATED WITH THE CITY OF LAREDO UTILITIES DEPARTMENT. ANY SERVICE SHUT-OFFS WILL ONLY BE ALLOWED DURING NIGHT-TIME HOURS FOR A PERIOD OF TIME NO LONGER THAN 4 HOURS. ANY RESIDENTS WHO WILL BE IMPACTED BY THE SERVICE SHUTOFF SHALL BE NOTIFIED NO LESS THAN 24 HOURS IN ADVANCE.

WATER LINE LENGTHS SHOWN ON PLAN-AND-PROFILE SHEETS ARE TAKEN FROM CROSS FITTING TO CROSS FITTING LOCATIONS AT EACH INTERSECTION OR CROSS FITTING TO DEAD END.

THE CONTRACTOR SHALL INSTALL ALL DEAD WATERLINE CAPS WITH A 2" TEMPORARY BLOW-OFF HYDRANT UNLESS OTHERWISE NOTED ON THE PLANS.

SANITARY SEWER SYSTEMS

ALL SANITARY SEWER IMPROVEMENTS SHALL COMPLY WITH THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS - DIVISION D, SECTION 200.

THE EXISTING SANITARY SEWER SYSTEM SHOWN ON THE PLANS IS THE ENGINEER'S BEST ATTEMPT AT RECREATING THE EXISTING SANITARY SEWER SYSTEM. THE CONTRACTOR IS RESPONSIBLE OF FIELD VERIFYING THE LOCATION OF ANY SANITARY SEWER COMPONENTS AND REPORTING ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER AND THE CITY OF LAREDO UTILITIES DEPARTMENT. ANY DAMAGES TO EXISTING SANITARY SEWER COMPONENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED TO EXISTING CONDITION AS DEEMED ADEQUATE BY ENGINEER AND CITY OF LAREDO UTILITIES DEPARTMENT.

CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES WHEN WORKING WITHIN THE R.O.W FOR SEWER LINE EXTENSION. ALL WORK SHALL BE COMPLETED DURING NON PEAK TRAFFIC TIMES. COORDINATE W/ CITY PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL MAINTAIN MINIMUM THE WALL-TO-WALL SEPARATION BETWEEN SEWER AND WATER UTILITIES AS REQUIRED BY TCEQ REGULATIONS. IF ANY DISCREPANCIES BETWEEN THIS NOTE AND TCEQ REGULATIONS EXIST, TCEQ REGULATIONS SHALL GOVERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL TCEQ REGULATIONS PRIOR TO UTILITY WORK

THE CONTRACTOR WILL BE REQUIRED TO ABANDON, REMOVE, OR REPLACE SANITARY SEWER LINES AND MANHOLES AS SHOWN ON THESE PLANS AND REQUIRED BY EXISTING FIELD CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE OUTCOME OF EXISTING UTILITIES THAT MUST BE ABANDONED, REMOVED, OR

ABANDONMENT OF LINES AND MANHOLES SHALL COMPLY WITH SECTION 216 OF THE CITY OF LAREDO STANDARD SPECIFICATIONS. IF ABANDONMENT OF AN INLET, CLEANOUT, AND MANHOLE IS REQUIRED, IT SHALL BE REMOVED COMPLETELY TO A DEPTH OF ONE FOOT BELOW THE BOTTOM OF THE TRENCH. IN EACH INSTANCE, THE BOTTOM OF THE TRENCH SHALL BE RESTORED TO GRADE BY BACKFILLING AND COMPACTING BY THE METHODS PROVIDED HEREIN FOR BACKFILL. REFER TO SECTION 102 - EXCAVATION AND (THIS NOTE IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE. IF A DISCREPANCY BETWEEN THIS NOTE AND THE CITY OF LAREDO STANDARD SPECIFICATION MANUAL EXISTS, THE CITY OF LAREDO STANDARD SPECIFICATION SHALL GOVERN.)

SANITARY SEWER INVERTS FLOWING INTO MANHOLES WITH AN INVERT-TO-FLOW ELEVATION DIFFERENCE GREATER THAN 2 FEET SHALL HAVE A MANHOLE DROP INSTALLED AS PER CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - STANDARD TYPICAL DETAILS SECTION.

CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLES TO PROPOSED GRADE.

IF SANITARY SEWER SERVICES ARE FOUND THAT ARE NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL TIE-IN TO PROPOSED SEWER IN ACCORDANCE WITH THE CITY OF LAREDO SANITARY SEWER SERVICE STANDARD.

ANY SANITARY SEWER PLUGS TO BE INSTALLED BY THE CONTRACTOR SHALL BE APPROVED BY THE CITY OF LAREDO UTILITIES DEPARTMENT. SANITARY SEWER PLUGS SHOWN ON THESE PLANS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.

ALL SANITARY SEWER SERVICES SHALL BE INSTALLED PER CITY OF LAREDO STANDARD DETAILS.

STORM SEWER SYSTEMS

ALL STORM SEWER IMPROVEMENTS SHALL COMPLY WITH THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS - DIVISION D, SECTION 300.

THE EXISTING STORM SEWER SYSTEM SHOWN ON THE PLANS IS THE ENGINEER'S BEST ATTEMPT AT RECREATING THE EXISTING STORM SEWER SYSTEM. THE CONTRACTOR IS RESPONSIBLE OF FIELD VERIFYING THE LOCATION OF ANY STORM DRAIN COMPONENTS AND REPORTING ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER AND THE CITY OF LAREDO UTILITIES DEPARTMENT. ANY DAMAGES TO EXISTING STORM SEWER COMPONENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED TO EXISTING CONDITION AS DEEMED ADEQUATE BY ENGINEER AND CITY OF LAREDO UTILITIES DEPARTMENT.

TRAFFIC CONTROL

THE CONTRACTOR SHALL COORDINATE ALL TRAFFIC CONTROL ACTIVITIES WITH LAREDO COLLEGE. CONTRACTOR SHALL EMPLOY ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM CONTROL DEVICES FOR STREETS AND HIGHWAYS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE BARRICADES, WARNINGS, SIGNS, NOTIFICATION, AND TRAFFIC LIGHTING DEVICES FOR THE SAFETY AND TRAFFIC FLOW WITHIN THE CONSTRUCTION AREAS. ALL TRAFFIC CONTROL ACTIVITIES SHALL BE IN-PLACE PRIOR TO CONSTRUCTION OF THE PROPOSED DRIVEWAY AND SIDEWALK IMPROVEMENTS AND SHALL REMAIN IN-PLACE UNTIL SATISFACTORY COMPLETION OF THE IMPROVEMENTS HAS BEEN ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC CONTROL DEVICES THROUGHOUT HIS ACTIVITIES.

AT EXISTING ROADWAY TIES, THE CONTRACTOR SHALL SCHEDULE WORK SO THAT PLACEMENT OPERATIONS WILL FOLLOW THE SUB GRADE WORK AS CLOSELY AND AS PRACTICAL IN ORDER TO REDUCE HAZARD TO THE TRAVELING PUBLIC AND PREVENT UNDUE PAVEMENT DAMAGE FROM WET WEATHER.

THE CONTRACTOR SHALL FURNISH AND INSTALL STOP SIGNS, STREET SIGNS AND OTHER REGULATORY SIGNS. THE LOCATIONS OF THE SIGNS SHALL BE DETERMINED BY THE ENGINEER AND APPROVED BY THE CITY. CITY OF LAREDO MAY ELECT TO IMPROVE ON APPROPRIATE SIGNAGE--STOP SIGNS, STREET SIGNS, SPEED LIMIT SIGNS; DECISIONS REGARDING SUCH IMPROVEMENTS WILL BE LEFT TO THE DISCRETION OF SAID CITY.

ACCESS TO ALL DRIVES AND SIDE ROADS, BOTH PUBLIC AND PRIVATE, ARE TO BE MAINTAINED AT ALL TIMES.

CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN TO CITY OF LAREDO FOR APPROVAL AND PROVIDE A COPY OF THE APPROVED PLAN TO THE ENGINEER.

STOCKPILED MATERIAL SHALL BE PLACED A MINIMUM OF 30' FROM THE NEAREST TRAVELED ROADWAY IN AN APPROVED LOCATION BY THE ENGINEER OR CITY TRAFFIC

STORM WATER POLLUTION PREVENTION PLAN

CONTRACTOR SHALL INSTALL STORM WATER POLLUTION PREVENTION CONTROLS AND SUBMIT NOTICE OF INTENT PRIOR TO ANY SITE PREPARATION WORK (DEMOLITION, **EXCAVATION. GRUBBING. ETC.)**

CITY OF LAREDO MAY ELECT TO IMPROVE ON APPROPRIATE SILT FENCING LAYOUT AS SHOWN; DECISIONS REGARDING SUCH IMPROVEMENTS WILL BE LEFT TO THE DISCRETION OF SAID ENTITY. THE CITY SHALL CONSULT WITH ENGINEER PRIOR TO ANY MODIFICATIONS TO THE SILT FENCING LAYOUT.

DUE TO EROSION ISSUES, NO UNPROTECTED SLOPES GREATER THAN 8:1 WILL BE ALLOWED. IF GREATER SLOPES ARE NECESSARY, EITHER EROSION CONTROL BLANKETS IN CONJUNCTION WITH HYDROMULCH OR SOD WILL ALLOW FOR A SLOPE UP TO 3:1.

CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DUST CONTROL MEASURES FOR PROJECT AT ALL TIMES.

RECONSTRUCTION

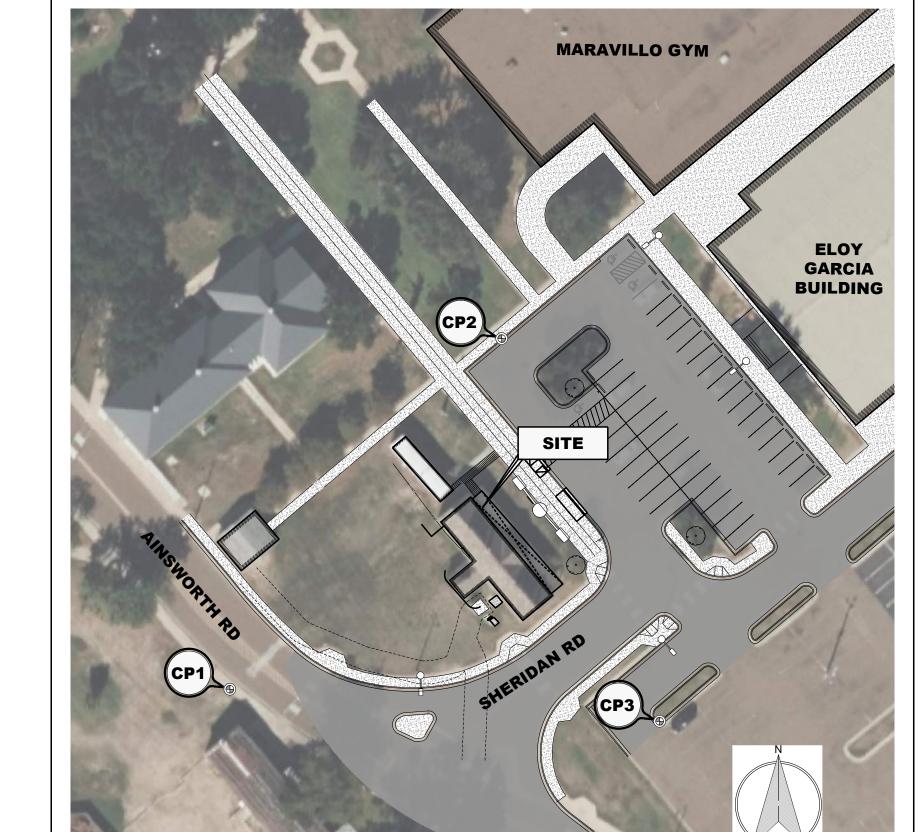
ALL SIDEWALK RECONSTRUCTION SHALL COMPLY WITH THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL.

ALL ASPHALT AND CONCRETE PAVEMENT RECONSTRUCTION SHALL COMPLY WITH THE ASPHALT PAVEMENT SECTION AND CONCRETE PAVEMENT SECTION SHOWN ON THE CORRESPONDING DETAILS SHEET

DUE TO FEDERAL REGULATION TITLE 49, PART 192.81, CENTER POINT ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND EXTENSION OF SERVICES WITHIN THE PROJECT AREA.

CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION OF IRRIGATION LINES WITHIN PROJECT LIMITS. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION CHAINLINK FENCE TO PROTECT PROJECT PERIMETER



CONTROL POINT DATA			
POINT #	NORTHING	EASTING	DESC.
1	17073394.51	652930.60	X-MARK
2	17073577.11	653072.20	BM 1 X-MARK
3	17073377.82	653154.44	BM 2 X-MARK

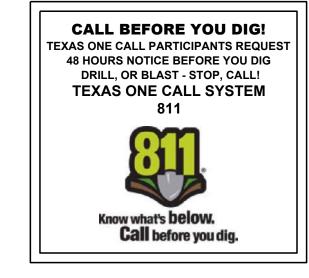
GOVERNING SPECIFICATIONS

24 X 36 - SCALE: 1" = 50"

- CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - LATEST REVISION
 - TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES -LATEST REVISION

UTILITY DEPARTMENTS

LAREDO, TEXAS WATER DISTRIBUTION AND SANITARY SEWER LAREDO WATER UTILITIES DEPARTMENT (956) 721-2000 **ELECTRIC COMPANY** A. E. P. (956) 721-3040 TELEPHONE COMPANY (956) 727-6749 TIME WARNER CABLE (956) 721-0600





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No.	Description	Date

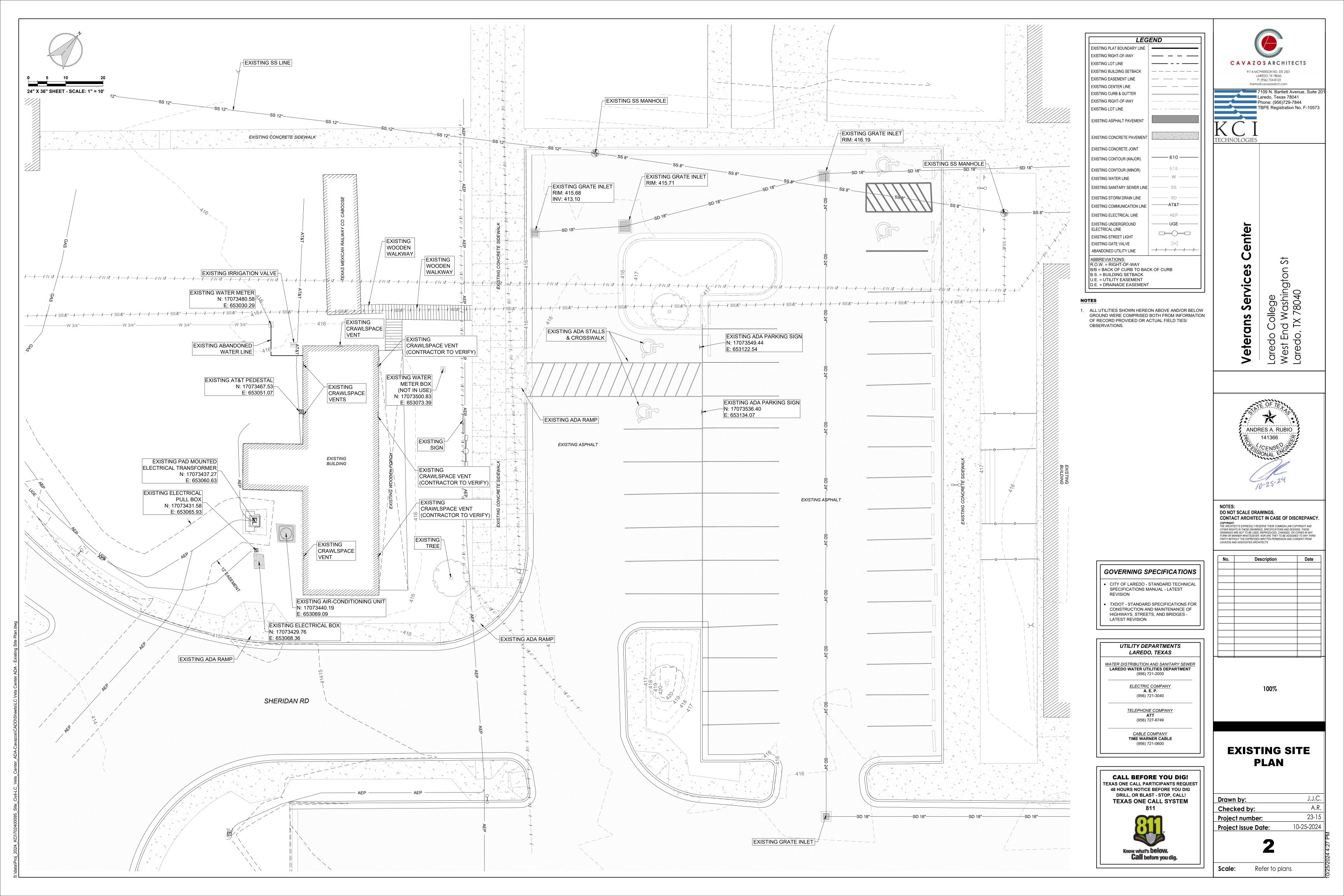
GENERAL NOTES & **CONTROL POINTS**

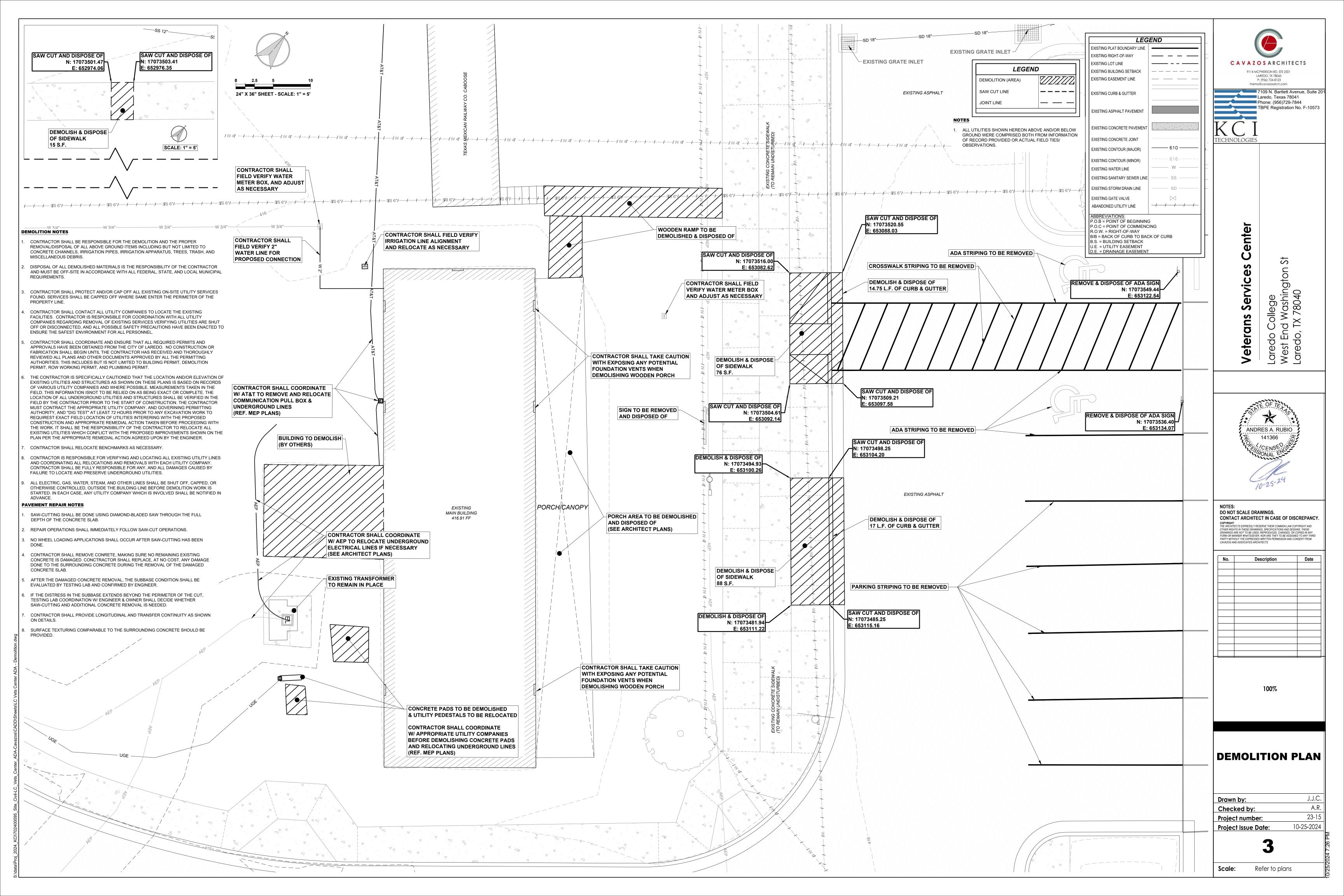
J.J.C Drawn by: A.R. Checked by: 23-15 Project number:

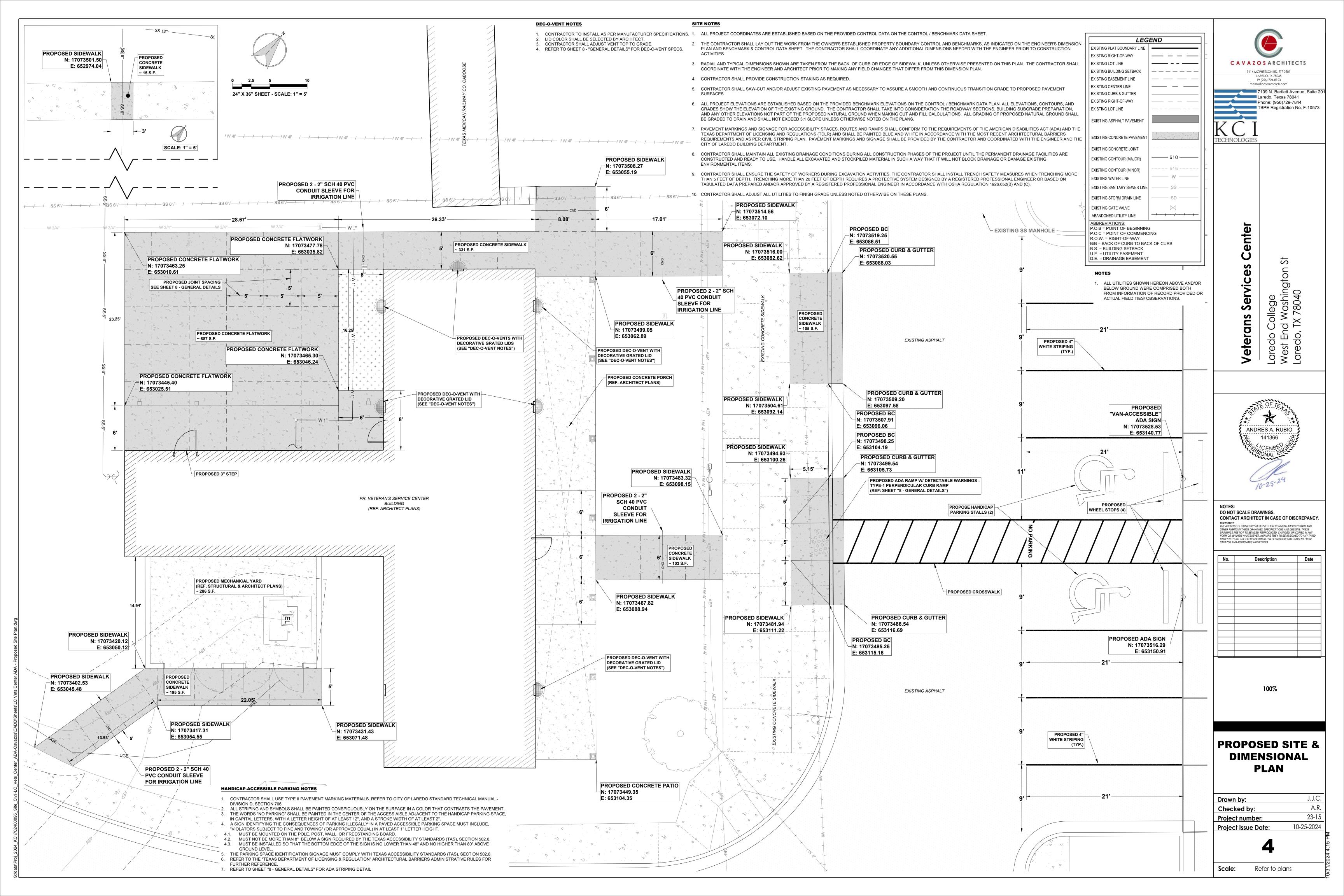
<u> Project Issue Date:</u>

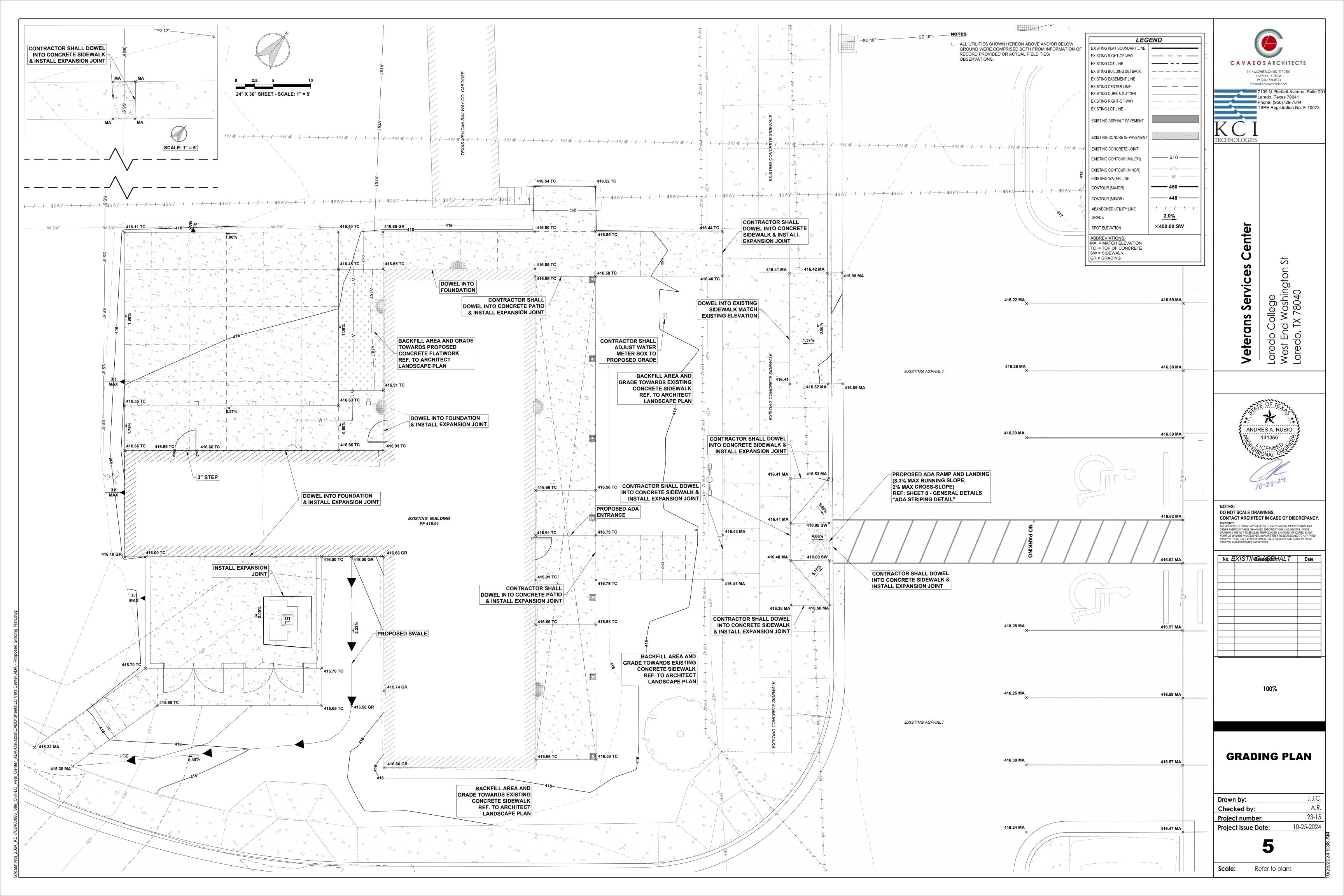
Refer to plans

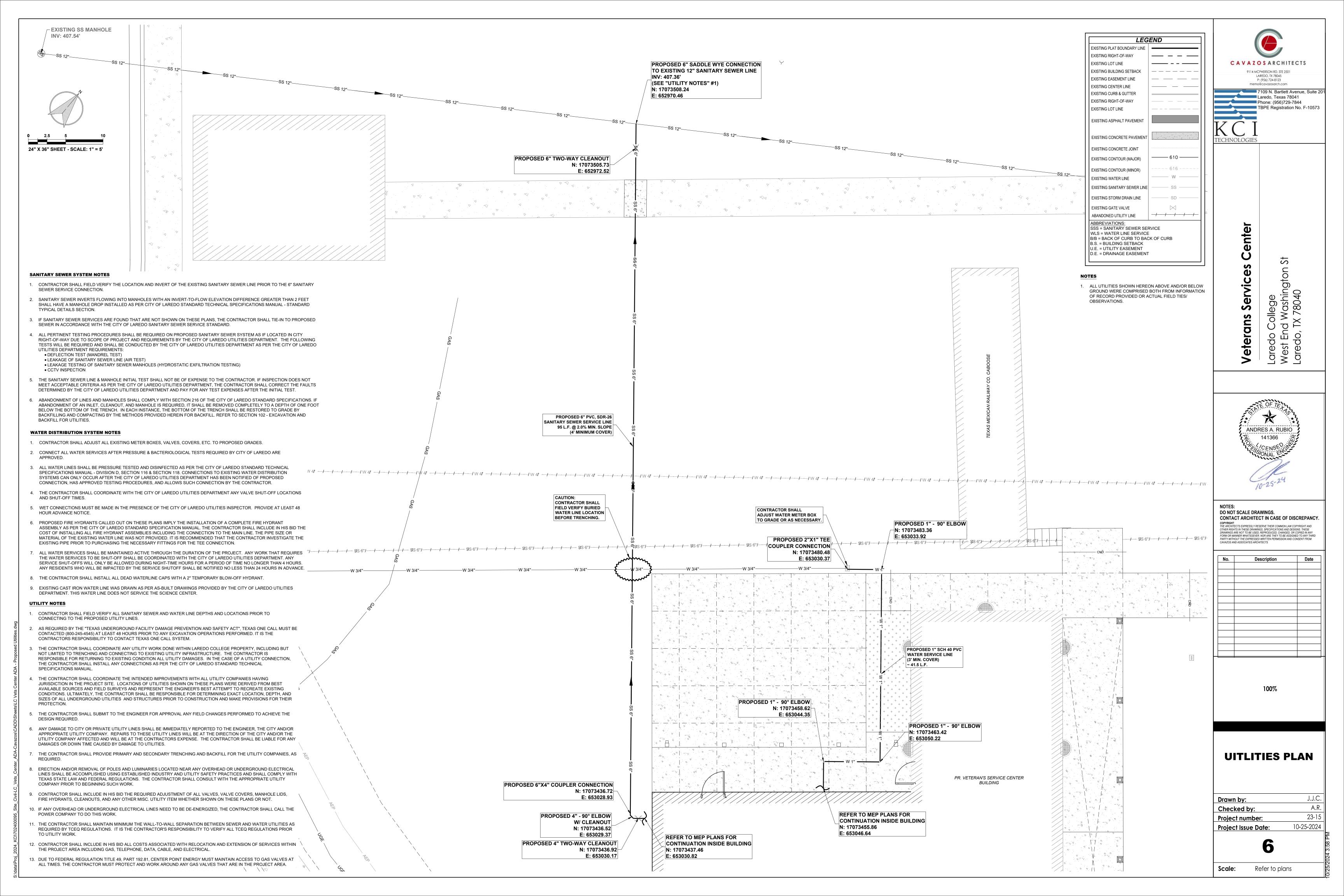
10-25-2024

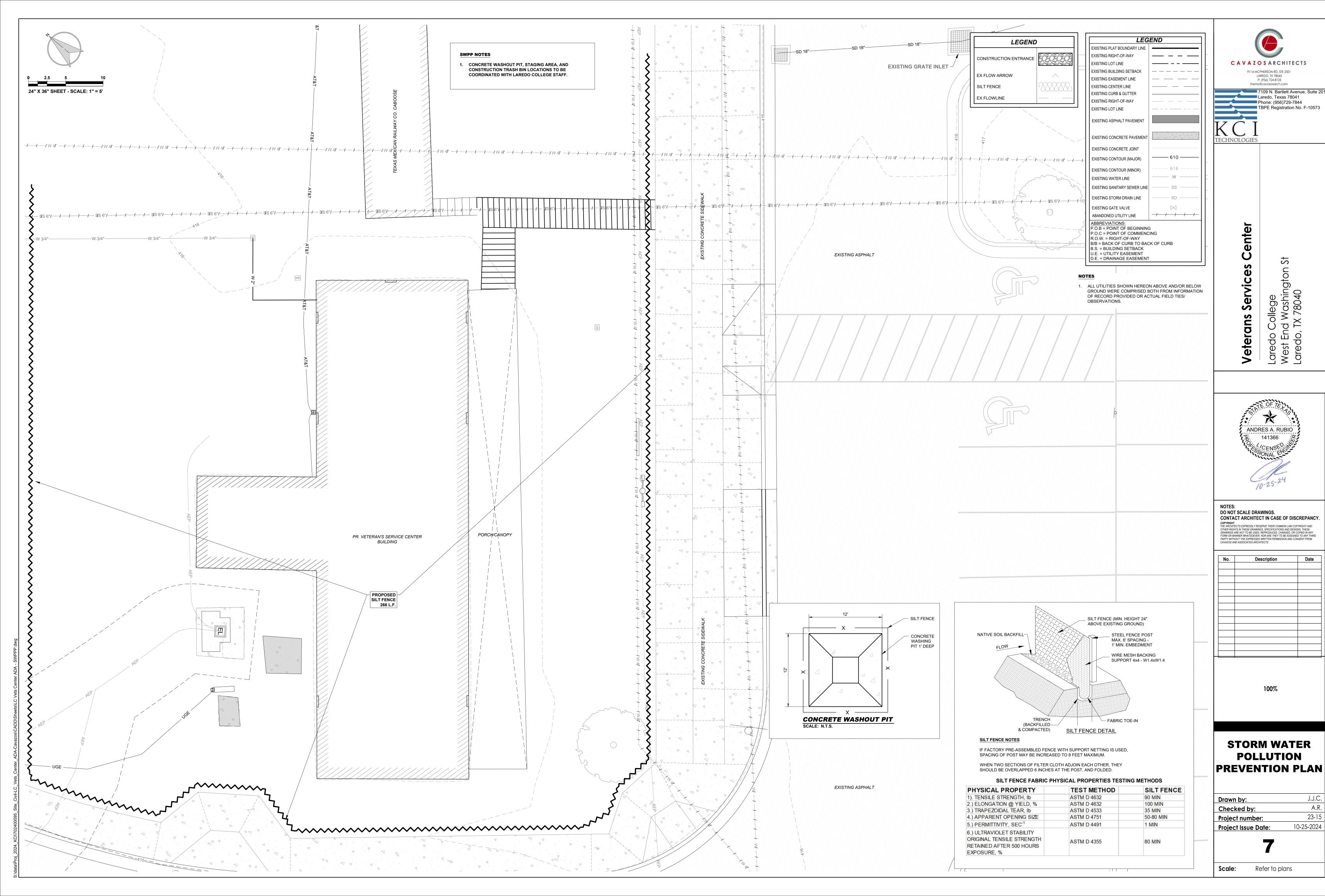


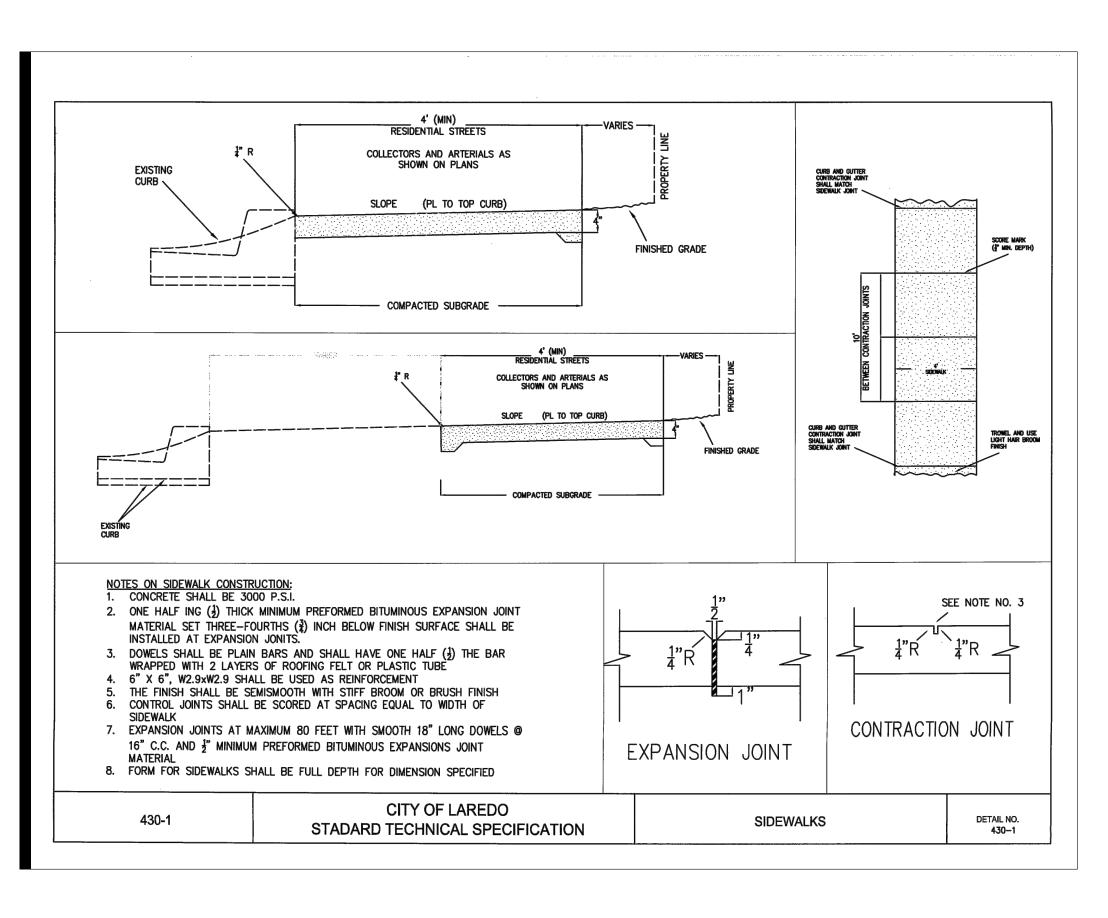


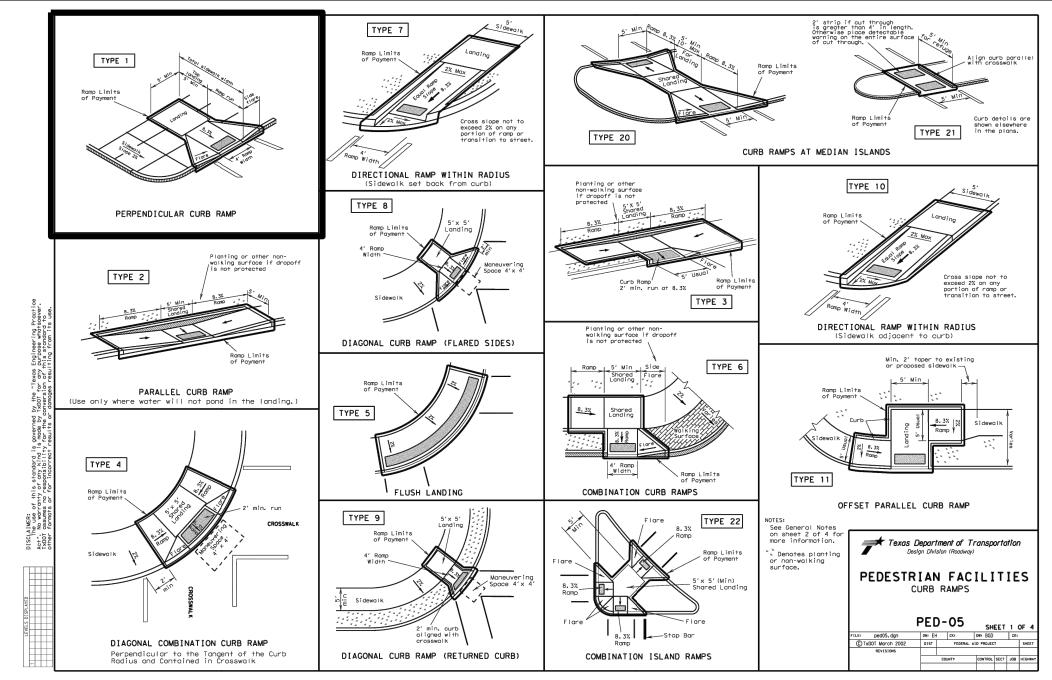


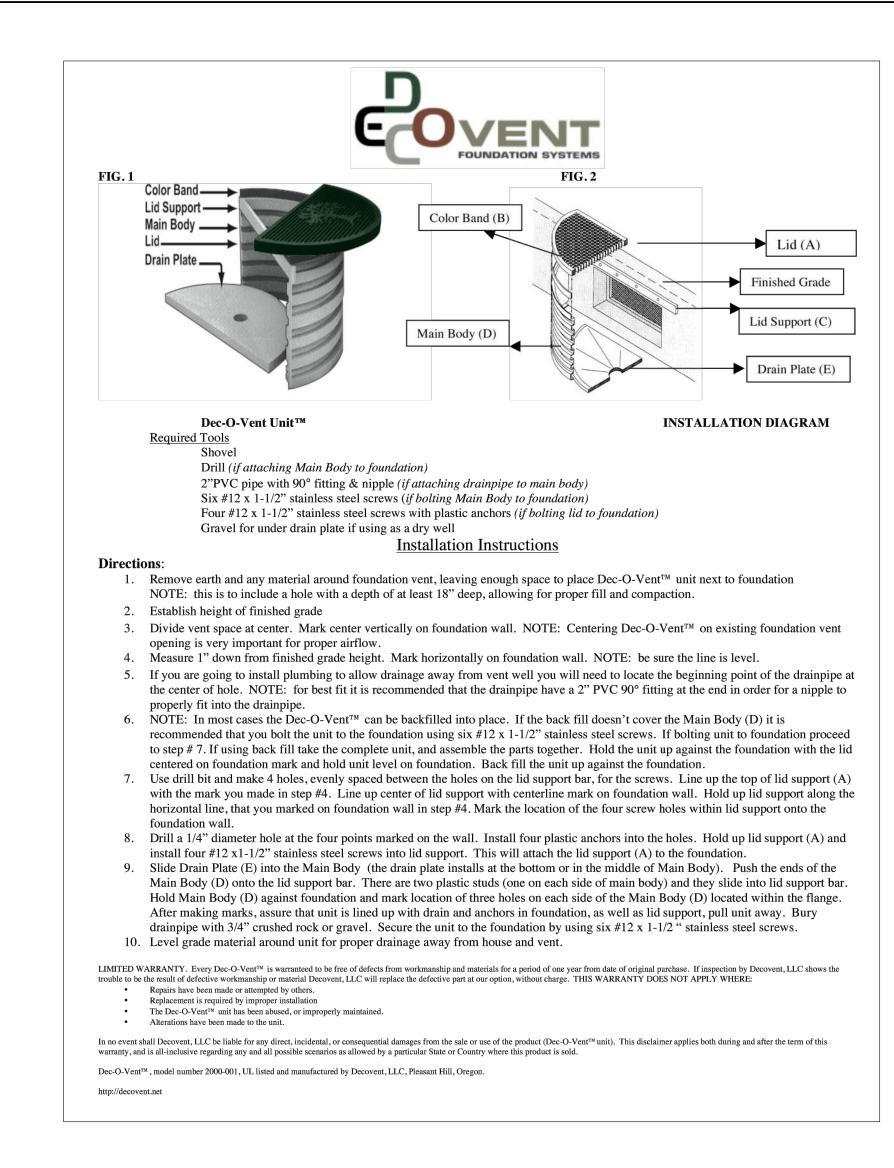










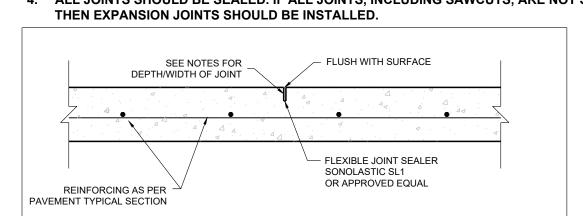


- FLEXIBLE JOINT SEALER SONOLASTIC SL 1 OR APPROVED EQUAL COAT DOWEL TO PREVENT BOND SEE TABLE FOR **DOWEL SIZING & EMBEDMENT** /- EXPANSION CAP (PAVEMENT > OR = 5" THICK) 3/4" THICK -MINIMUM PRE-FORMED BITUMINOUS REINFORCING AS PER CONCRETE **EXPANSION JOINT MATERIAL SET 1/2"** PAVEMENT TYPICAL SECTION BELOW FINISH SURFACE

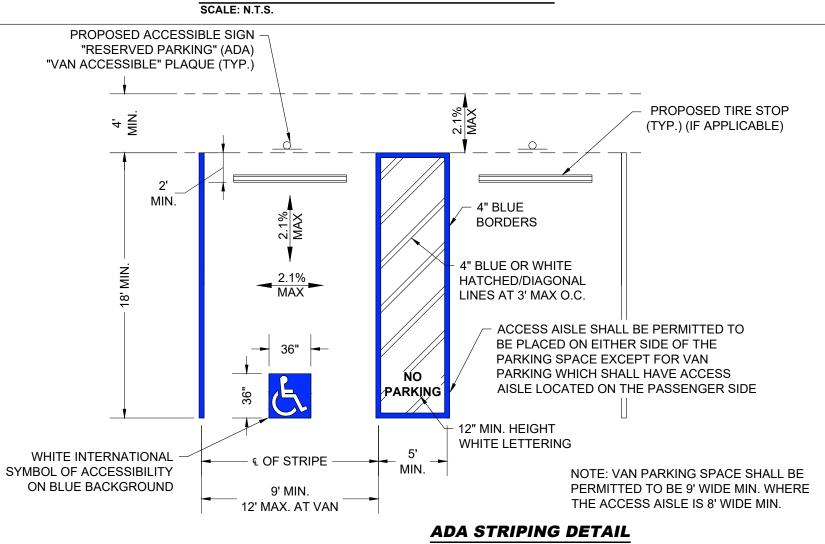
EXPANSION JOINT SCALE: N.T.S

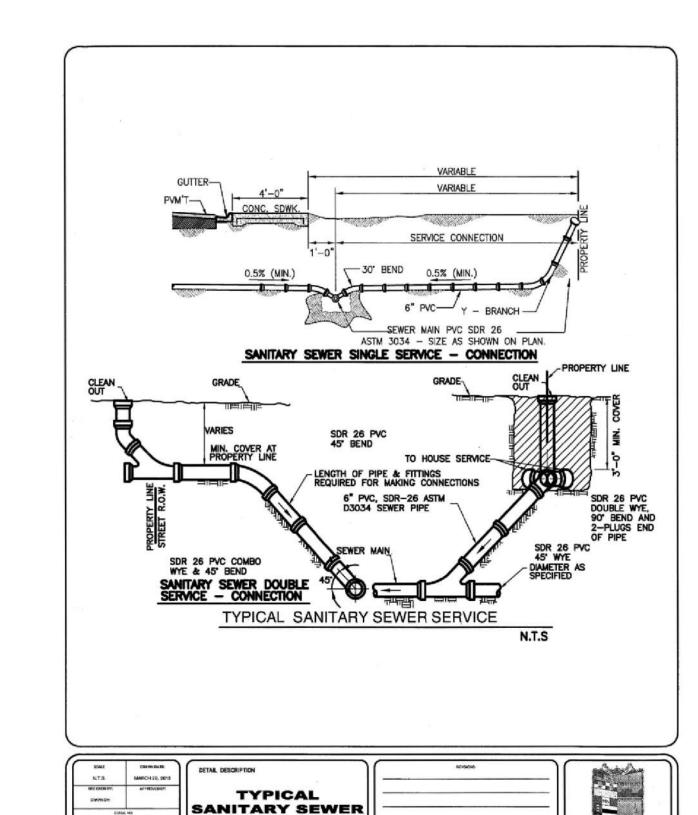
NOTES

- 1. SAW CUT CONTROL JOINTS SHOULD BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE
- 2. CONTRACTION JOINT DEPTH SHALL BE AT LEAST ONE-FOURTH (1/4) OF PAVEMENT THICKNESS.
- 3. CONTRACTION JOINT WIDTH SHALL BE ONE-FOURTH (1/4) INCH OR AS REQUIRED BY JOINT **SEALANT MANUFACTURE.**
- 4. ALL JOINTS SHOULD BE SEALED. IF ALL JOINTS, INCLUDING SAWCUTS, ARE NOT SEALED



CONTRACTION/DUMMY JOINT SECTION

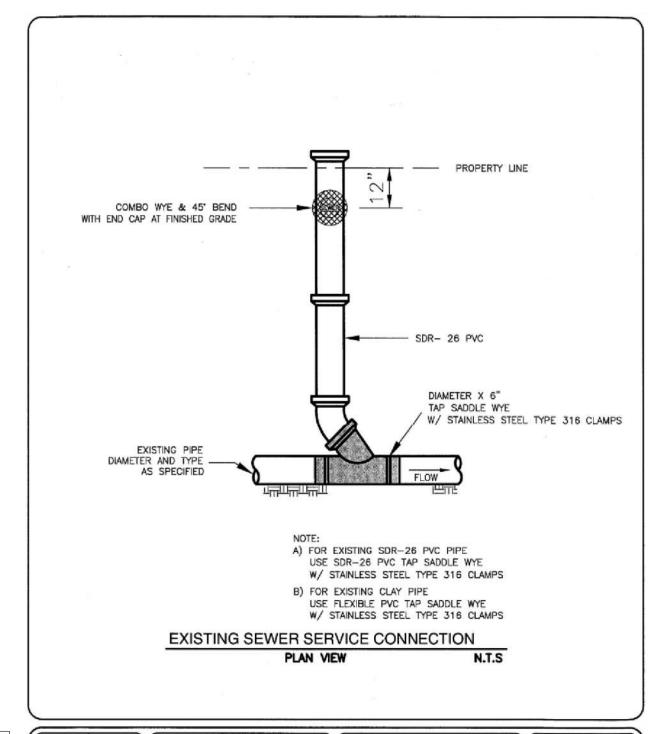


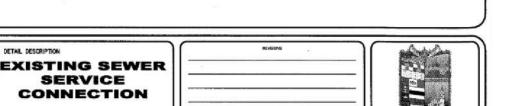


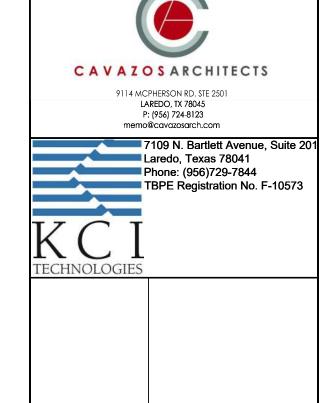
SERVICE

DETAIL DESCRIPTION

SERVICE CONNECTION







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ANDRES A. RUBIC

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GENERAL DETAILS

Drawn by: A.R. Checked by: 23-15 Project number: 10-25-2024 <u>Project Issue Date:</u>

Refer to plans

CONCRETE PAVEMENT DOWELING, JOINTING AND SEALERS **GENERAL NOTES**

1. 3/4" DIAMETER, 18" LONG SMOOTH DOWELS SHALL BE PLACED IN LINE WITH THE EXISTING EXPANSION JOINTS AS NOTED IN THE TYPICAL CONCRETE PAVEMENT DOWEL PLAN. THE SMOOTH DOWELS SHALL BE PLACED AT THE REBAR SPACING.

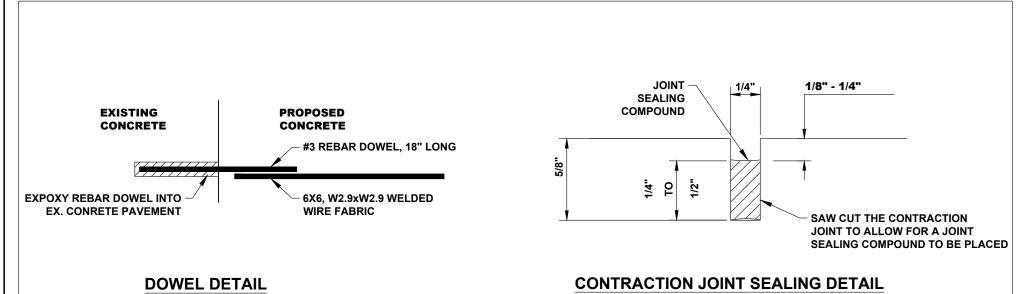
2. THE SMOOTH DOWELS SHALL BE PLACED USING A REBAR BREAK JOINT OR THE

OTHER METHOD APPROVED BY THE OWNER.

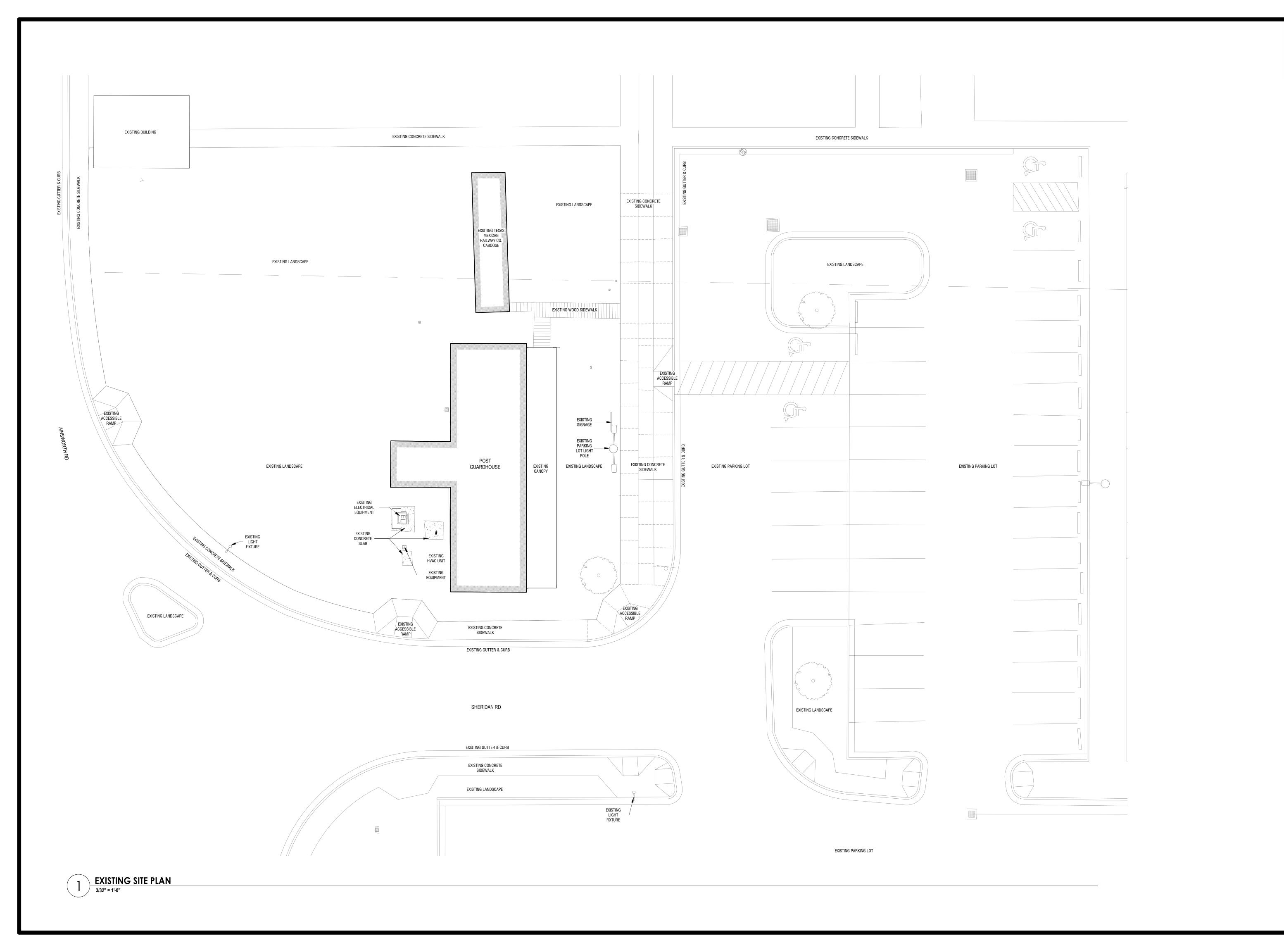
3. AT THE LOCATION OF CONSTRUCTION JOINTS, A #4 REBAR, 18" LONG SHALL BE DOWELED INTO EXISTING CONCRETE IN LINE WITH THE REBAR SPACING. THE REBAR DOWEL SHALL BE TIED TO THE CONCRETE PAVEMENT REBAR. THE REBAR DOWEL SHALL BE EPOXIED INTO EXISTING CONCRETE USING HILTI HIT-RE100 ADHESIVE, OR OTHER TYPE III, CLASS C EPOXY AND ADHESIVE FROM TX DOT'S PRE-QUALIFIED PRODUCERS LIST AS APPROVED BY THE OWNER.

THE CONTRACTOR SHALL GROUT ANY VOIDS OR HOLES USING MAPEL **PLAINGROUT 755** OR OTHER APPROVED EQUAL AS APPROVED BY THE OWNER. THE GROUT SHALL FOLLOW THE MIXING AND APPLICATION INSTRUCTIONS FOR THE DRY-PACK METHOD AS NOTED BY THE MANUFACTURER

5. THE CONCRETE FINISH SHALL BE SEMI-SMOOTH WITH A STIFF BROOM OR BRUSH FINISH. TINE (RAKE) FINISH IS ALSO ALLOWED.



CONCRETE PAVEMENT DOWEL AND SEALERS DETAIL





Veterans Services Center

CONSTRUCTION DOCUMENTS

Laredo College Sheridan Rd, Laredo,



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Description

KEY PLAN

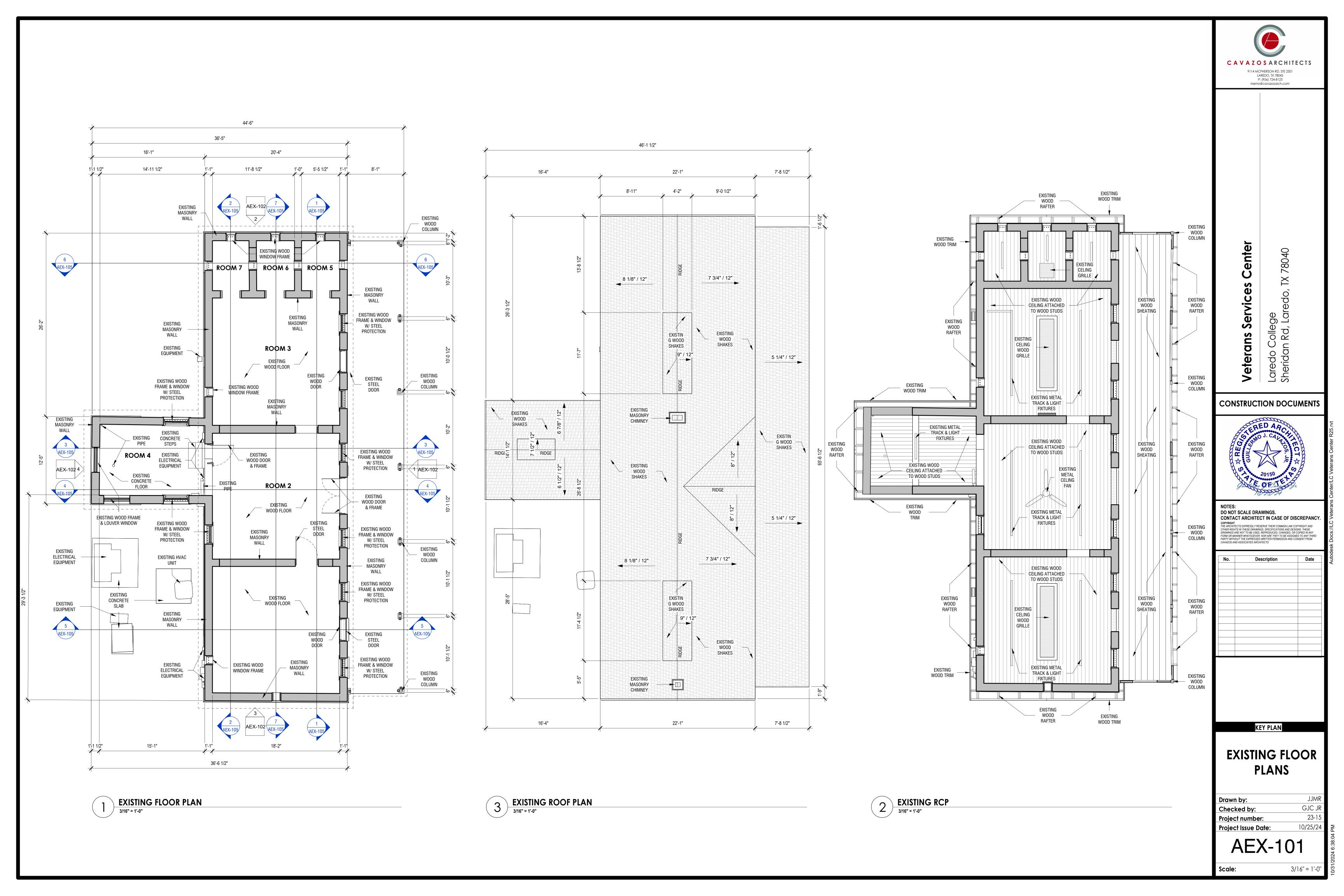
EXISTING SITE PLAN

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

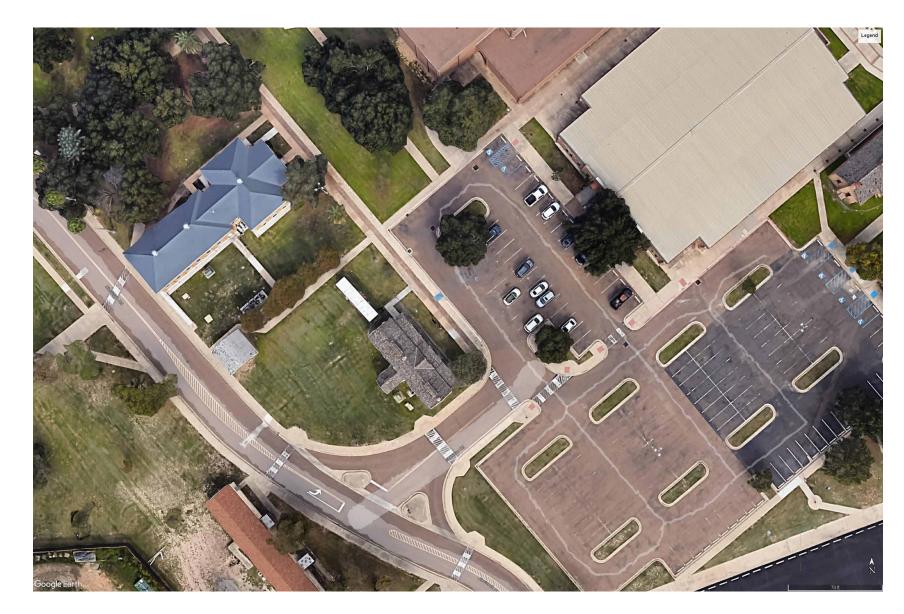
AEX-100

3/30" -

3/32" = 1'-0"







AERIAL SITE PHOTO



BIRD EYE GENERAL VIEW



FRONT FACADE VIEW



BACK FACADE GENERAL VIEW



FRONT PORCH VIEW



BACK FACADE VIEW



EXISTING CONDITIONS BACK FACADE PHOTO



FRONT PORCH VIEW



FRONT FACADE WINDOW DETAIL VIEW



Services Center

Laredo College Sheridan Rd, Larec

GO J. CALANDO S. CALAN

CONSTRUCTION DOCUMENTS

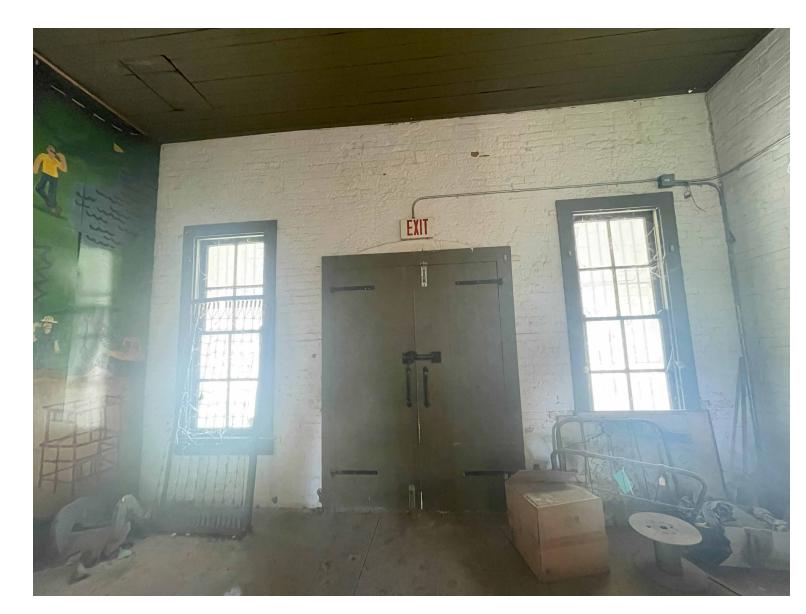
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No.	Description	Date

EXISTING
CONDITIONS
EXTERIOR
PHOTOS

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

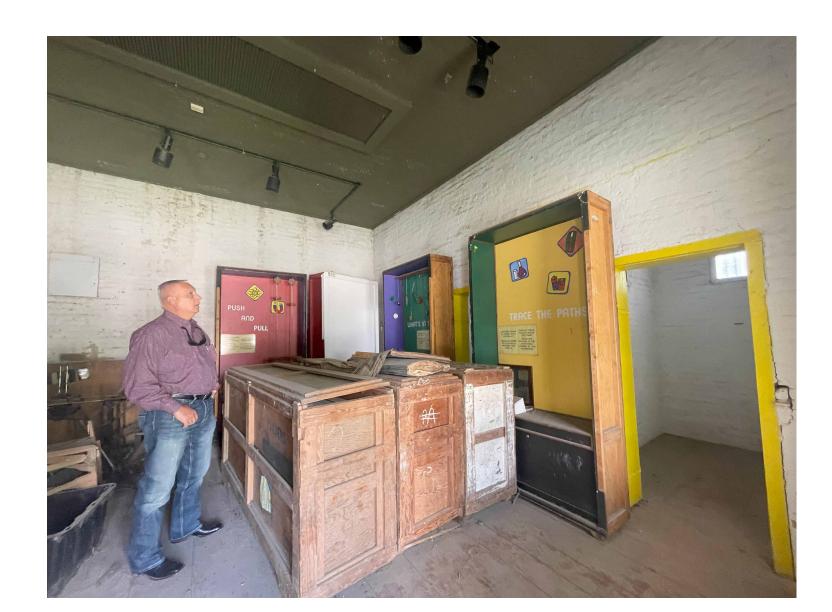
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INTERIOR MAIN ENTRANCE VIEW



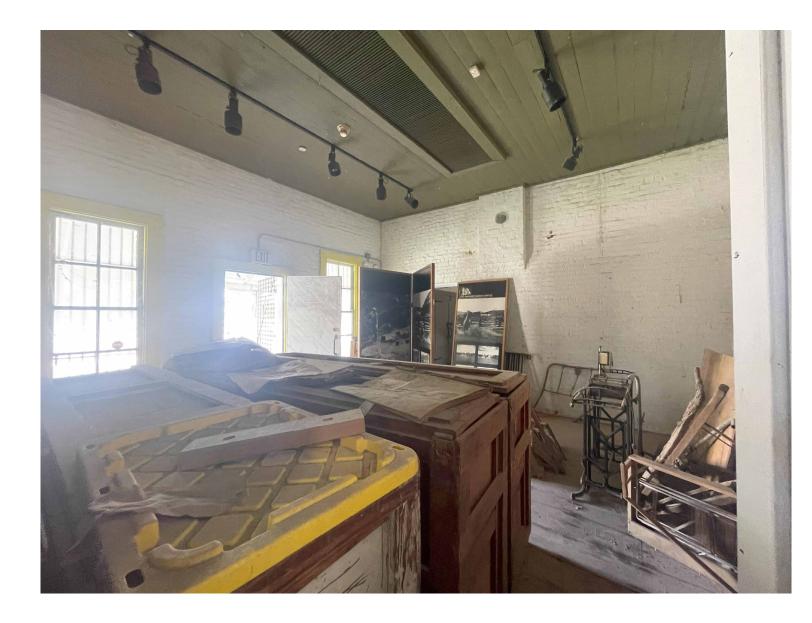
INTERIOR CELL VIEW



INTERIOR MAIN ENTRANCE VIEW



INTERIOR BACK ROOM VIEW



INTERIOR NORTH ROOM VIEW



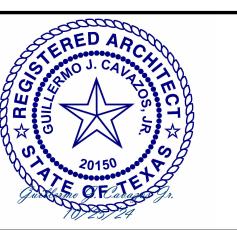
EXTERIOR WINDOW DETAIL



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EXISTING
CONDITIONS
INTERIOR
PHOTOS

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

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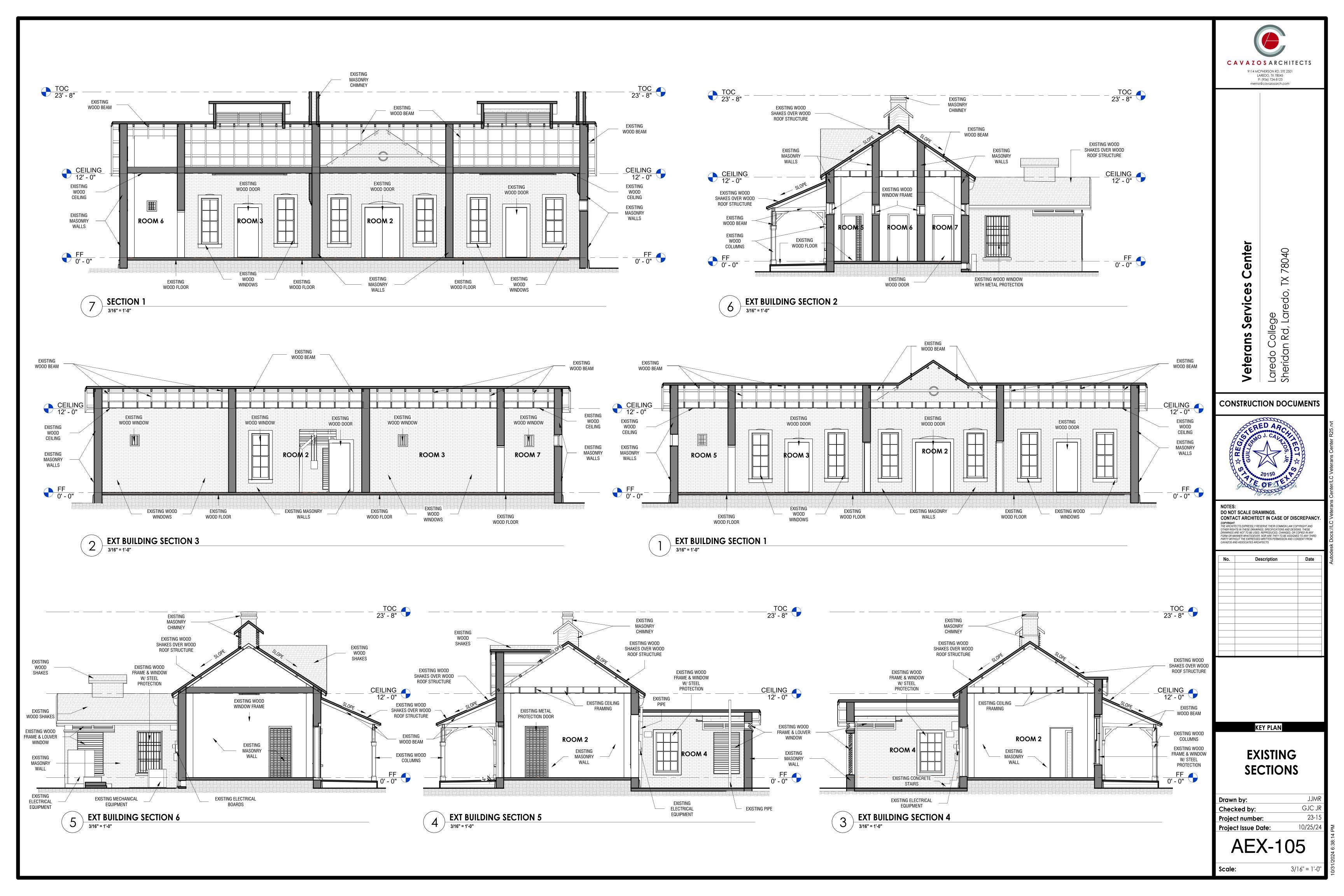
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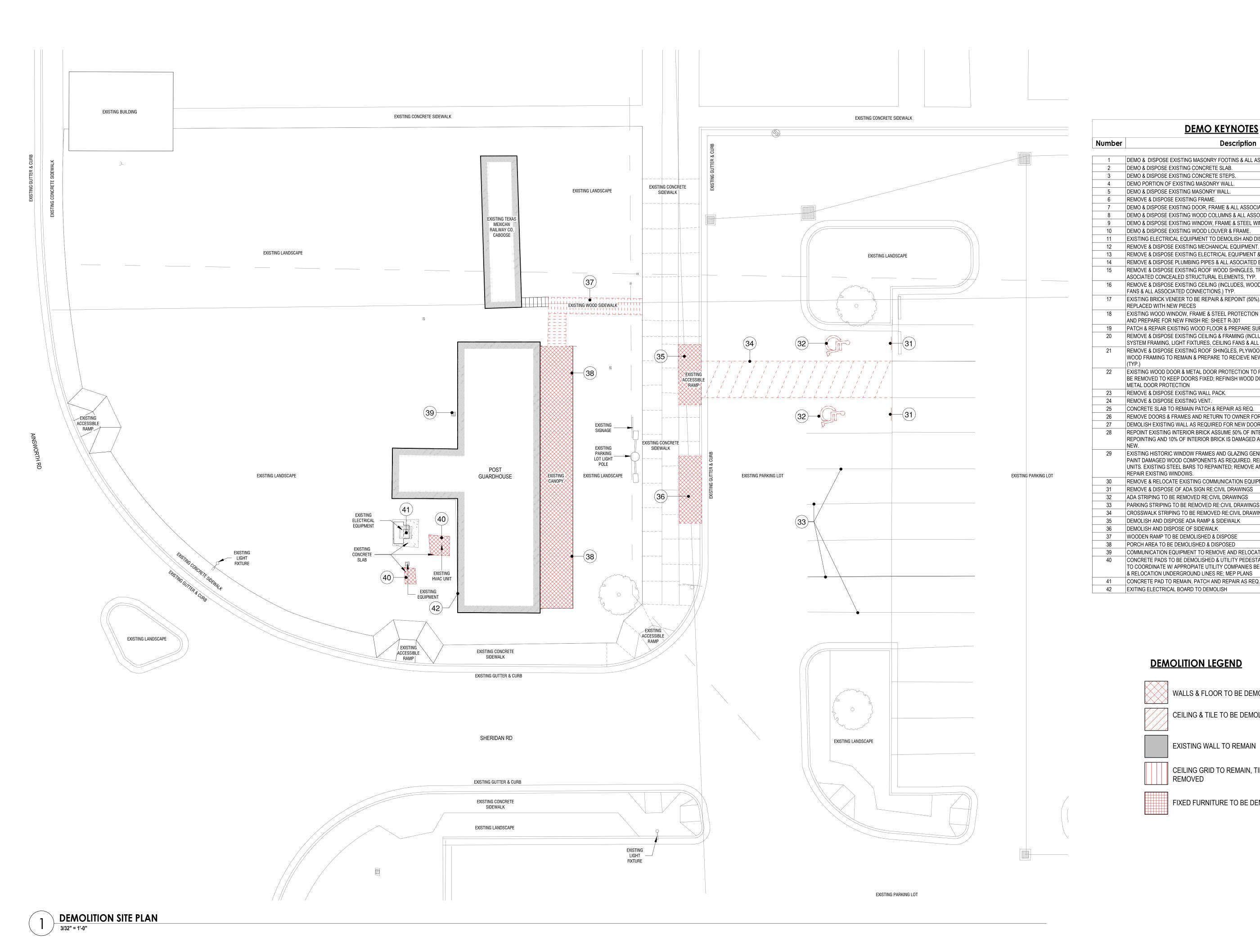
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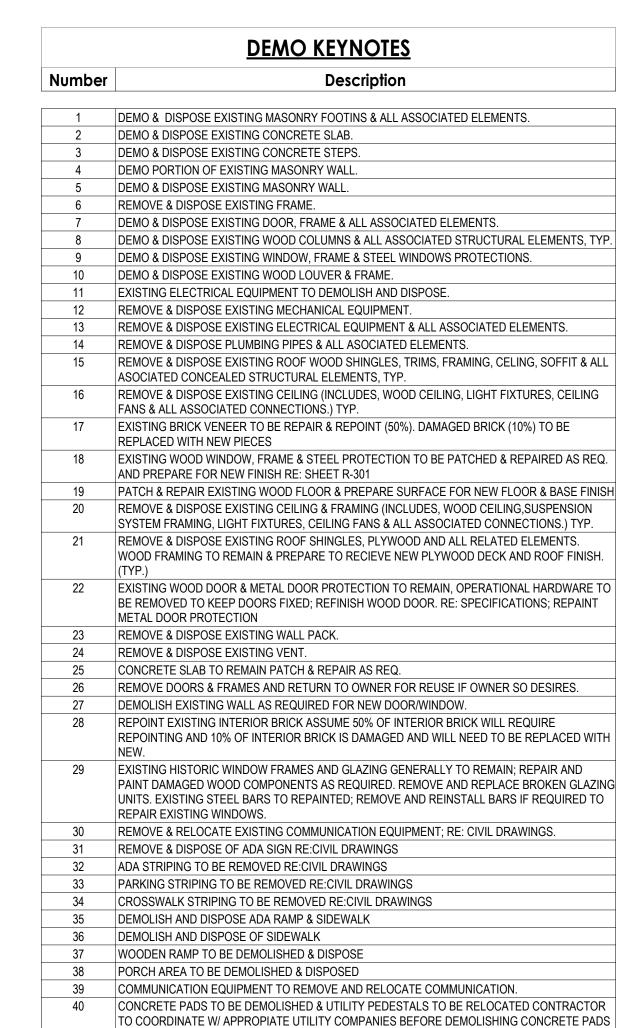
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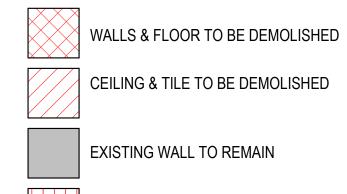
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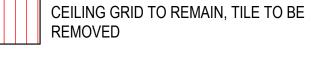






DEMOLITION LEGEND







FIXED FURNITURE TO BE DEMOLISH

KEY PLAN

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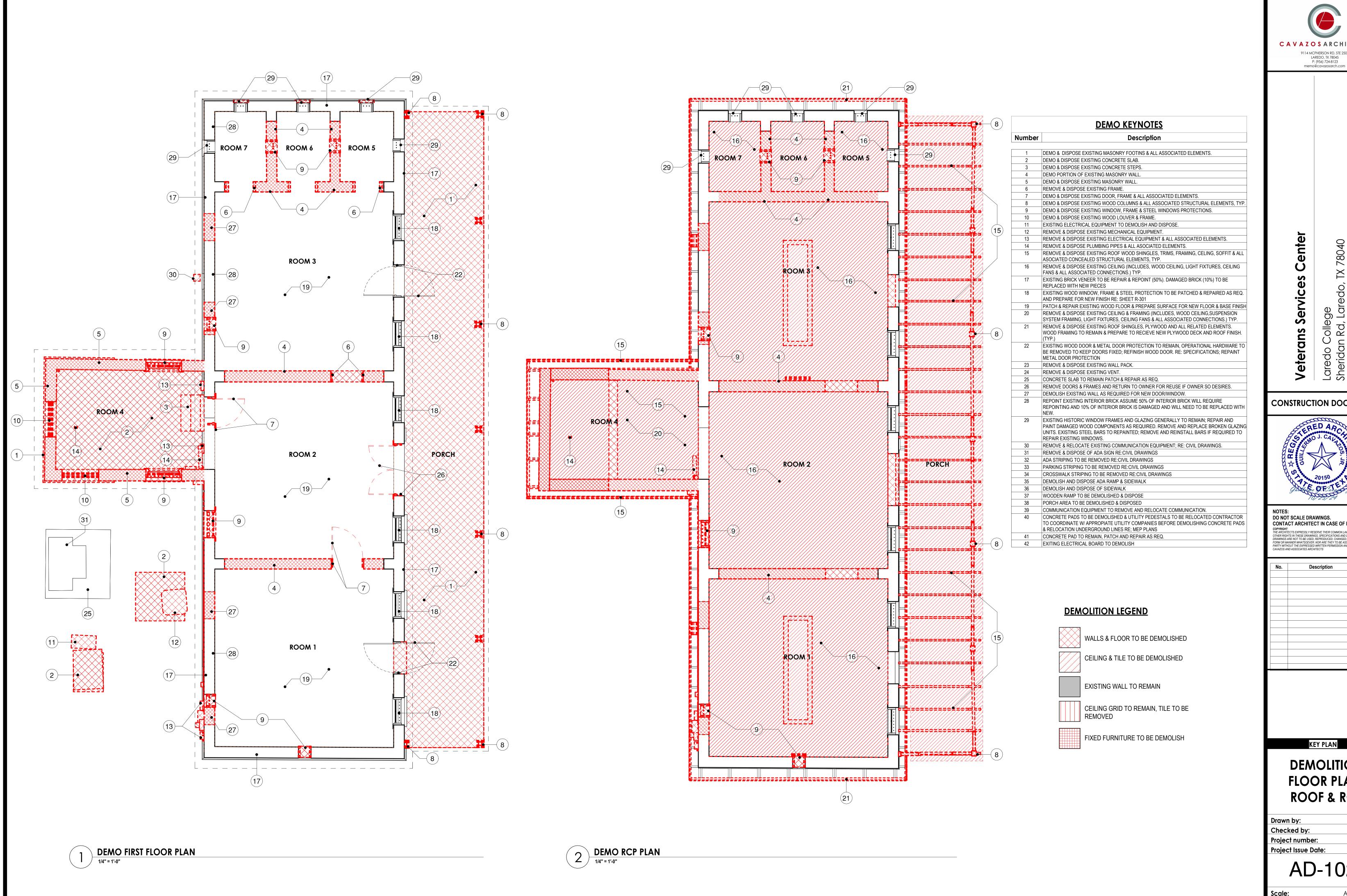
Description

CONSTRUCTION DOCUMENTS

SITE PLAN **DEMOLITION**

Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

AD-101



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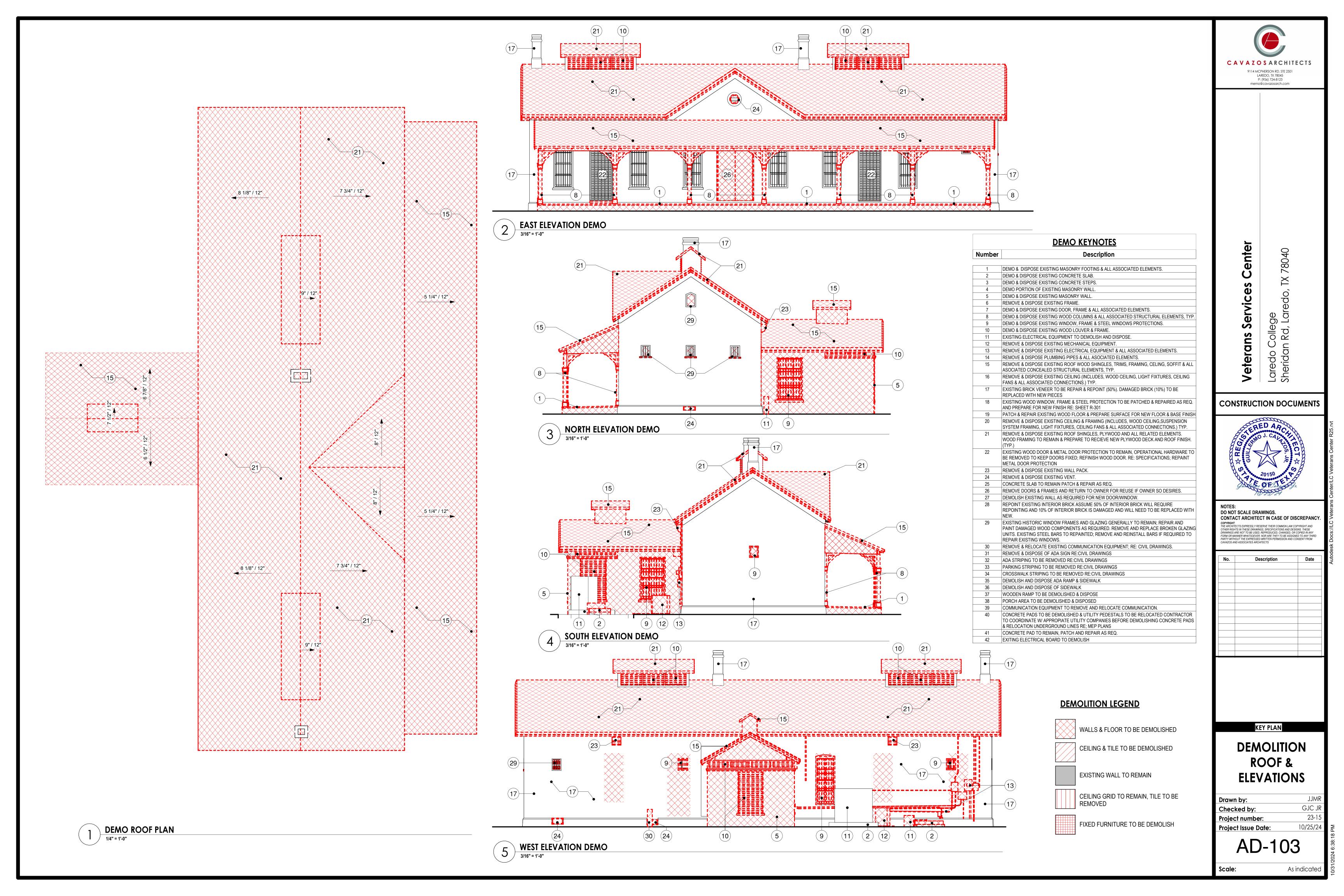
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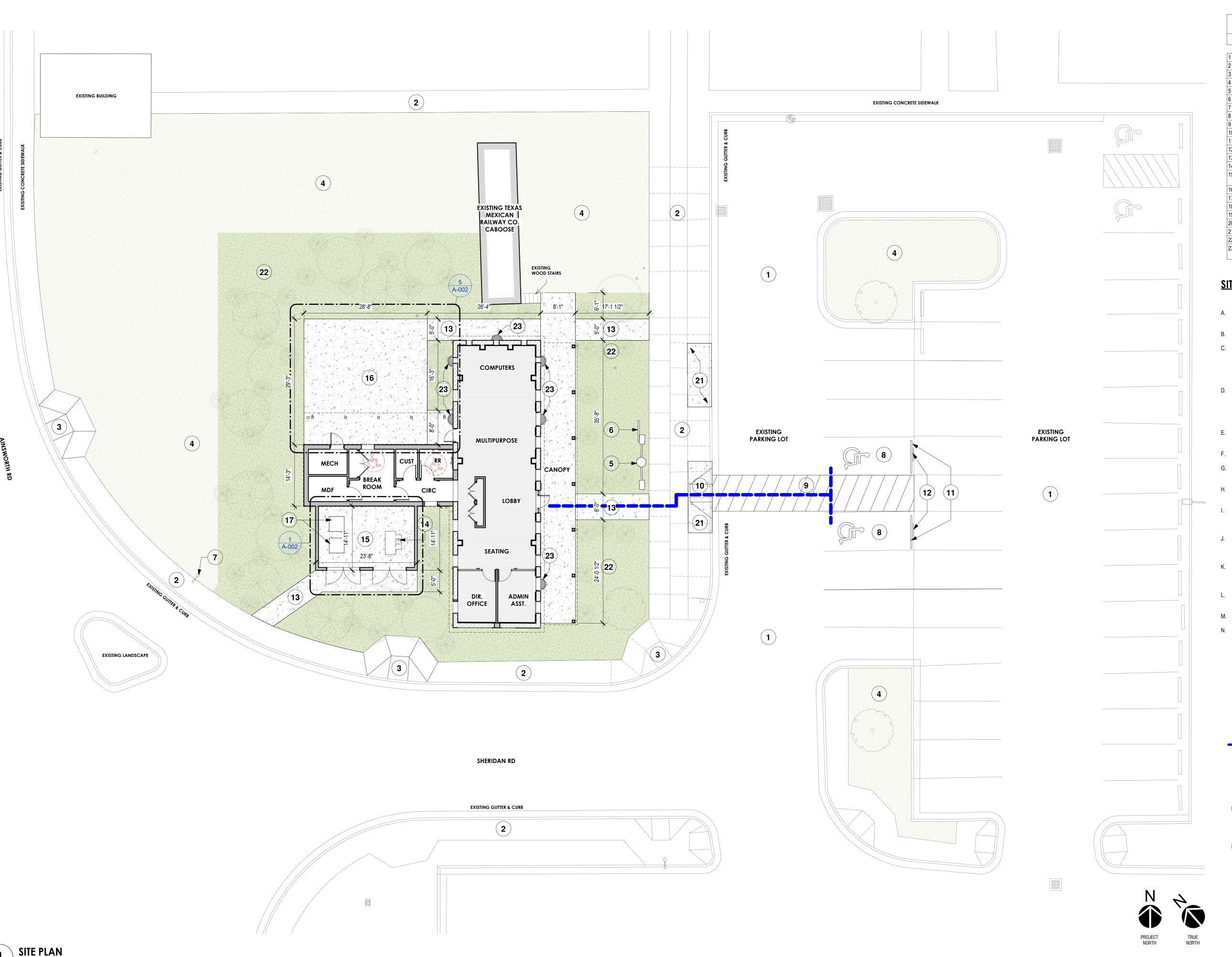
KEY PLAN

DEMOLITION FLOOR PLAN, ROOF & RCP

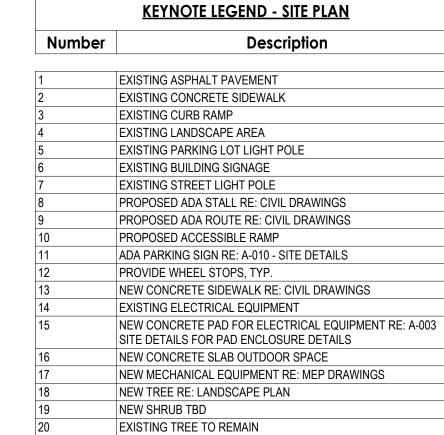
GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

AD-102





3/32" = 1'-0"



SITE PLAN GENERAL NOTES

CIVIL DRAWINGS

A. REFER TO CIVIL DRAWINGS FOR ADDITIONAL ELEVATIONAL, AND SITE DETAILING FOR FINISH GRADING, PAVING AND SITE UTILITIES NOT

PROPOSED DEC-O-VENTS WITH DECORATIVE GRATED LIDS RE:

NEW CONCRETE SIDEWALK NEW LANDSCAPE AREA

- SHOWN HERE, ALSO INCLUDING TRAFFIC SIGNAGE AND MARKINGS. REFER TO CIVIL FOR ALL PAVING EXPANSION JOINTS AND CONTROL JOINTS SPACING AT GENERAL WALKS NOT SHOWN ON ARCHITECTURAL
- THE CONTRACTOR, IN SUBMITTING A BID FOR THIS WORK, IS ASSUMED TO HAVE THOROUGHLY FAMILIARIZED HIMSELF WITH ALL EXISTING CONDITIONS AT THE PROJECT SITE AND TO HAVE REQUESTED, FROM THE ARCHITECT, CLARIFICATION FOR ANY DISCREPANCIES AND/OR AMBIGUOUS ITEMS ENCOUNTERED AFTER THOROUGHLY READING THE CONSTRUCTION DOCUMENTS. (DRAWINGS & SPECIFICATIONS)
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING & PROPOSED DIMENSIONS, CONDITIONS, AND WORK, AND SHALL NOTIFY THE ARCHITECT OF AN DISCREPANCIES AND/OR AMBIGUITIES BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL CONDITIONS PRIOR TO PROCEEDING WITH PROCURRING AFFECTED MATERIALS OR PROCEEDING THE WORK.
- DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS THAT ARE ON THE DRAWINGS OR ARE PROVIDED BY THE ARCHITECT OR OWNER VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT. VERIFY LOCATION OF ALL EXISTING UTILITIES AND TIE-IN POINTS PRIOR
- TO PROCEEDING WITH ANY WORK. CONTRACTOR SHALL ASSURE ACCESSIBILITY OF FIRE TRUCKS AT ALL
- TIMES ON ALL PUBLIC STREETS, DRIVEWAYS, AND ARE AS DESIGNATED AS FIRE LANES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COSTS
- AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COSTS
- ASSOCIATED WITH ANY PROTECTION MEASURES THAT WILL BE REQUIRED BY THE CONSTRUCTION/DEMOLITION ACTIVITIES TO SAFEGUARD THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC. ALL UTILITY MANHOLES, FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. PROVIDE ACCESS TO THE SAME WHEN NEEDED BY THE UTILITY
- AGENCIES. K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH ALL EXISTING CONDITIONS THAT WILL
- AFFECT THE DEMOLITION AND CONSTRUCTION OF ALL WORK REQUIRED TO COMPLETE THIS PROJECT. NOT ALL LANDSCAPE, MEP, AND CIVIL SITE WORK AND IMPROVEMENTS
- SHOWN ON ARCHITECTURAL SITE PLANS. SEE ALSO CIVIL AND MEP RESTORE AND FILL TO DESIGN FINISH GRADE WHERE SITE ITEMS AND
- IMPROVEMENTS REMOVED. COORDINATE CONSTRUCTION SITE FENCING AND EVERY GATE AS

SITE LEGEND

REQUIRED BY OWNER.

GRASS; TIFWAY 419 BERMUDA, SOLID SOD

CONCRETE PAVING; RE: CIVIL FOR FURTHER INFORMATION; BROOM FINISH ON ALL SIDEWALKS AND PEDESTRIAN PAVING.

ACCESSIBLE ROUTE, ADA COMPLIANT PAVING RE: CIVIL FOR SITE ADA RAMPS, CROSSWALK MARKINGS AND SIGNAGE

PLANTING LEGEND



LIVE OAK 2.5" CAL. - 10-12' MIN. 4-6' SPRED



CEDAR ELM 2.5" CAL. - 10-12'H MIN. 4.6' SPRED



PITTOSPORUM SHRUB 5 GALLON



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CONSTRUCTION DOCUMENTS



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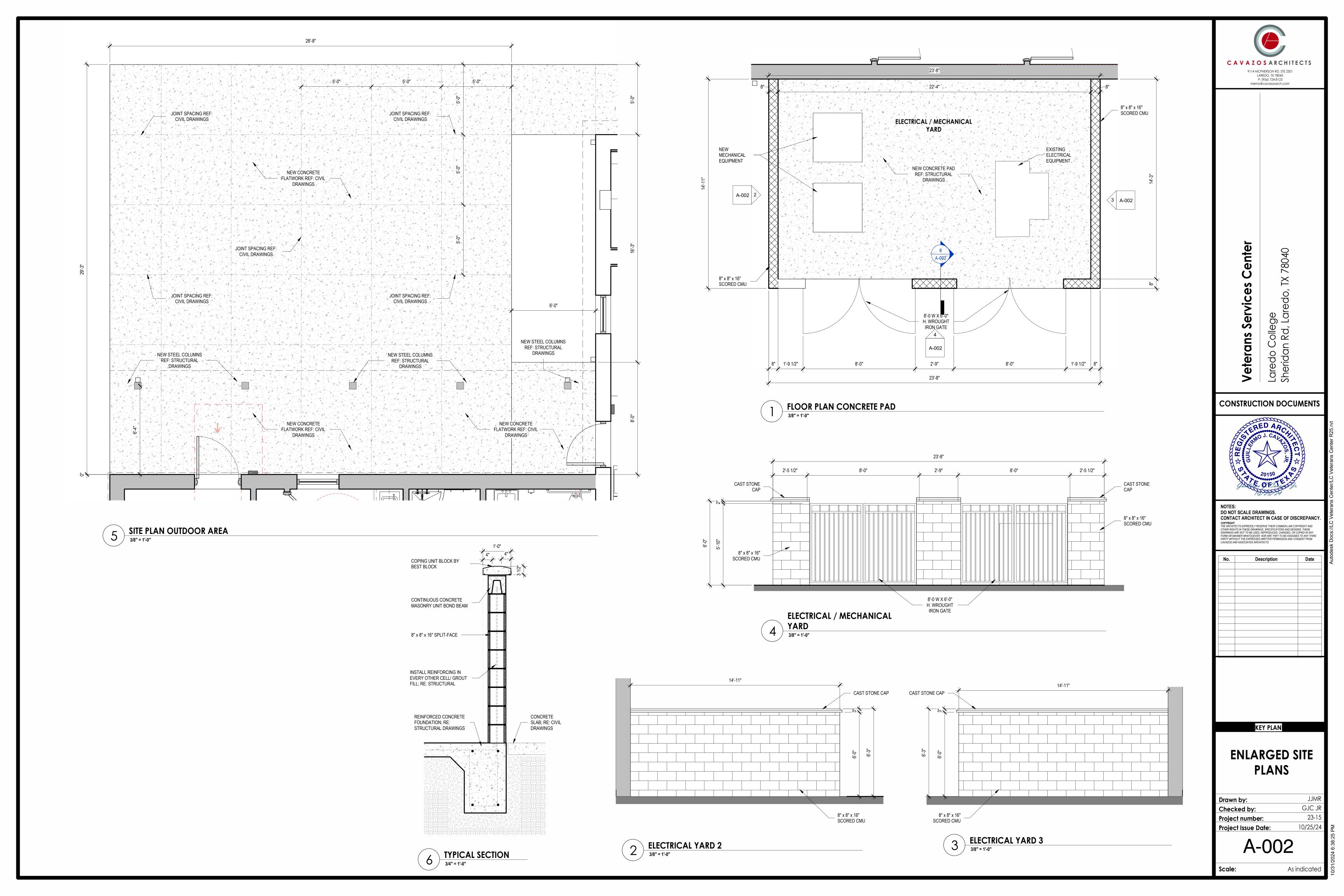
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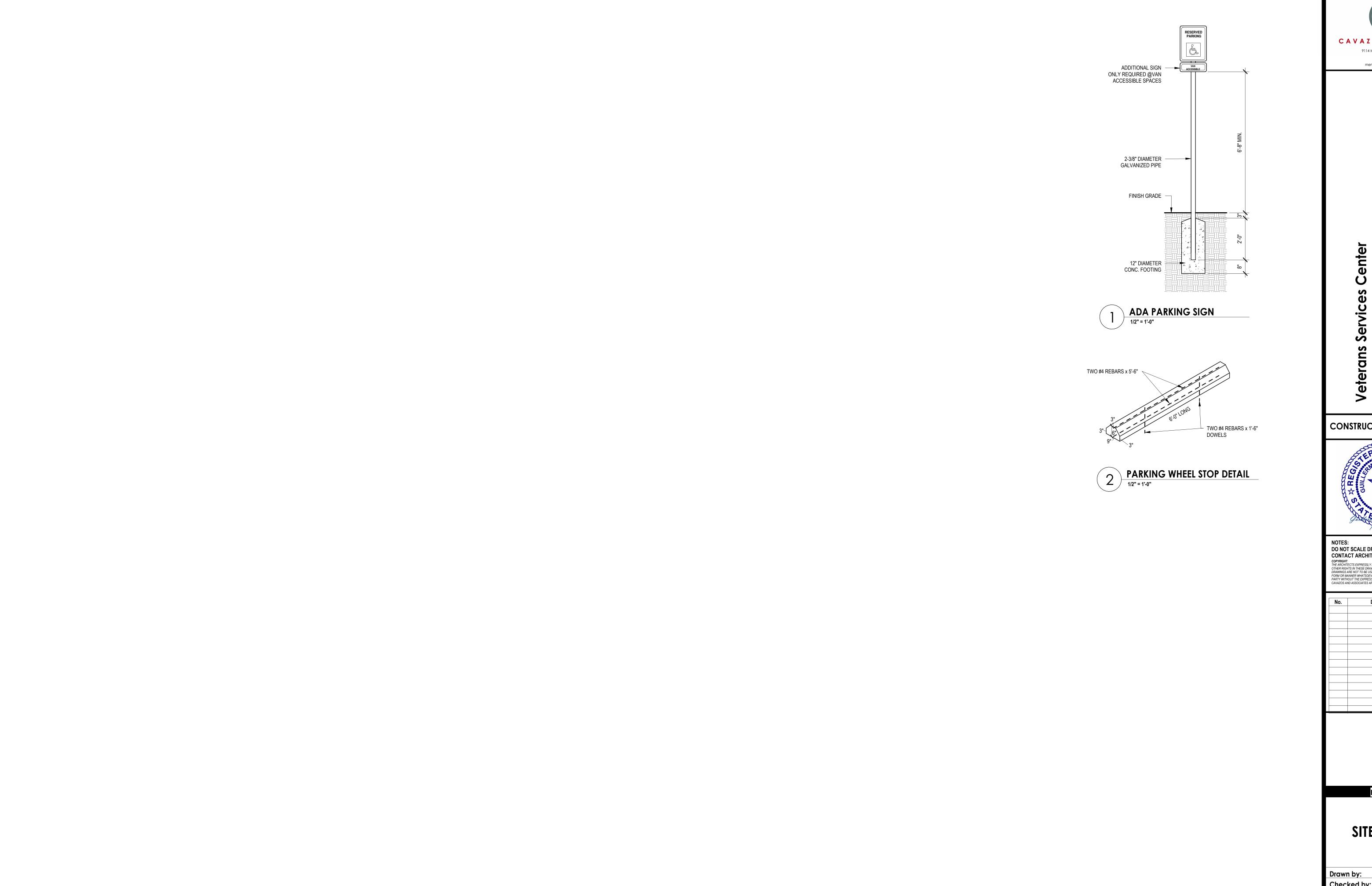
Description

KEY PLAN

SITE PLAN

Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:







Veterans Services CenterLaredo College
Sheridan Rd, Laredo, TX 78040

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No.	Description	Date

KEY PLAN

SITE DETAILS

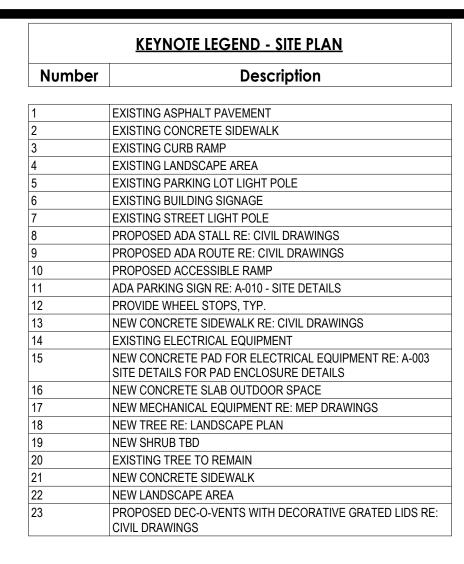
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A-003

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

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LANDSCAPE & IRRIGATION NOTES:

- A. G.C. TO PROVIDE DESIGN FOR IRRIGATION SYSTEM BY LICENSED IRRIGATOR, TO BE APPROVED BY ARCHITECT, DURING SUBMITTALS PHASE; PROVIDE SHOP DRAWINGS.
- THIS IRRIGATION PLAN SHALL PROVIDE A CONCEPTUAL IDEA OF THE PROPOSED LANDSCAPING PLAN. THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF \$50,000.00 IN THEIR VID PACKAGE FOR LANDSCAPING & IRRIGATION, WHICH INCLUDES ALL NEW GRASS/TURF, PLANTS, SHRUBS, TREES, GRATES AND OTHER PLANTING ACCESSORIES AND A COMPLETE IRRIGATION SYSTEM. AFTER THE BID IS AWARDED, THE CONTRACTOR SHALL PROVIDE A COST FOR ALL OF THE ITEMS LISTED ABOVE SHOWN AS "NEW" ON THIS LANDSCAPING PLAN, AND SHALL REVIEW THE COST(S) WITH THE ARCHITECT & OWNER'S REPRESENTATIVE.
- PROVIDE DRIP IRRIGATION SYSTEM (1/2" 3/4") ADJUSTABLE DRIPPER. SYSTEM SHALL HAVE AUTOMATIC TIMERS, MOUNT CONTROLLER (AND CONNECT TO ELECTRICAL SOURCE) AS PER ARCHITECT'S INSTRUCTION.
- PROVIDE SEPARATE IRRIGATION METERS AS PART OF BID PACKAGE, AS PER CITY
- REQUIREMENTS. COORDINATE WITH CIVIL ENGINEERING DRAWINGS.
- PROVIDE 1/2 GALLON/MINUTE BUBBLERS AT EACH TREE. PROVIDE 5' DIA MULCH RING AROUND EACH TREE.
- PROVIDE SUITABLE WEEDBARRIER PERMEABLE FABRIC UNDERNEATH ALL PERMEABLE PAVERS (SOURCE: EWING IRRIGATION & LANDSCAPE SUPPLY, LAREDO, TX)
- COORDINATE FINAL GRADES AT ALL EXTERIOR PAVER AREAS
- CONTRACTOR TO PROVIDE SEPARATE LINE ITEM FOR EACH CATEGORY (TREES, PAVERS, IRRIGATION COMPONENTS, ETC..) IN SCHEDULE OF VALUES.
- FOR UNDERGROUND CONDUIT SIZES, TYPES, AND LOCATIONS, REFER TO ELECTRICAL SITE KEY NOTES ON ELECTRICAL SITE PLAN.

SITE LEGEND

GRASS; TIFWAY 419 BERMUDA, SOLID SOD

CONCRETE PAVING; RE: CIVIL FOR FURTHER INFORMATION; BROOM FINISH ON ALL SIDEWALKS AND PEDESTRIAN PAVING.

ACCESSIBLE ROUTE, ADA COMPLIANT PAVING RE: CIVIL FOR SITE ADA RAMPS, CROSSWALK MARKINGS AND SIGNAGE

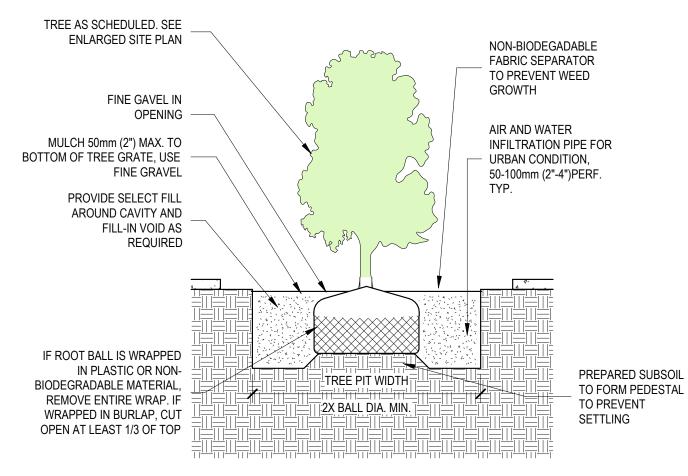
PLANTING LEGEND

LIVE OAK 2.5" CAL. - 10-12' MIN. 4-6' SPRED

CEDAR ELM 2.5" CAL. - 10-12'H MIN. 4.6' SPRED

1/2" = 1'-0"

PITTOSPORUM SHRUB 5 GALLON



TREE PANTER DETAIL

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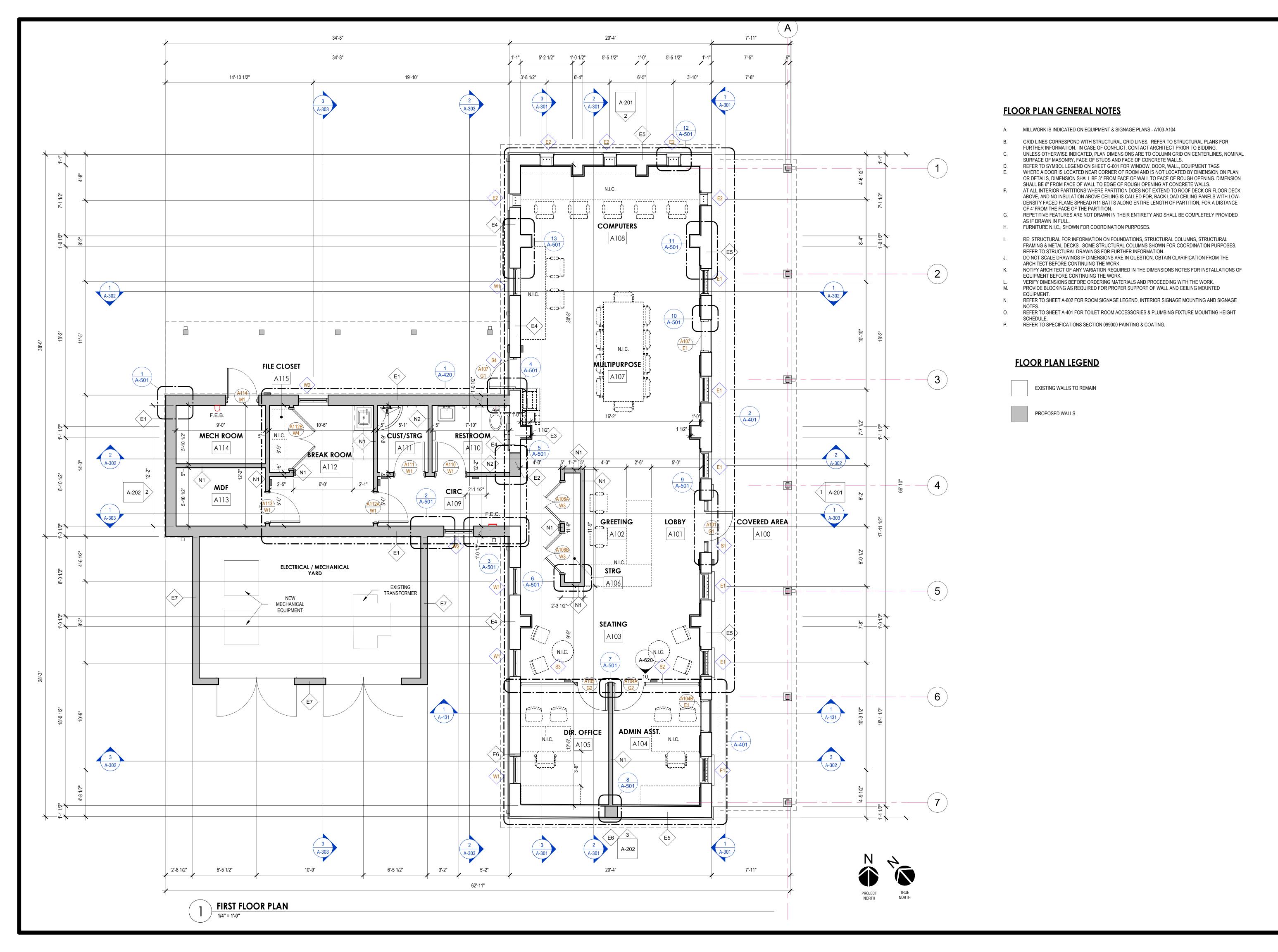
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Description

KEY PLAN

LANDSCAPE **PLAN**

Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:





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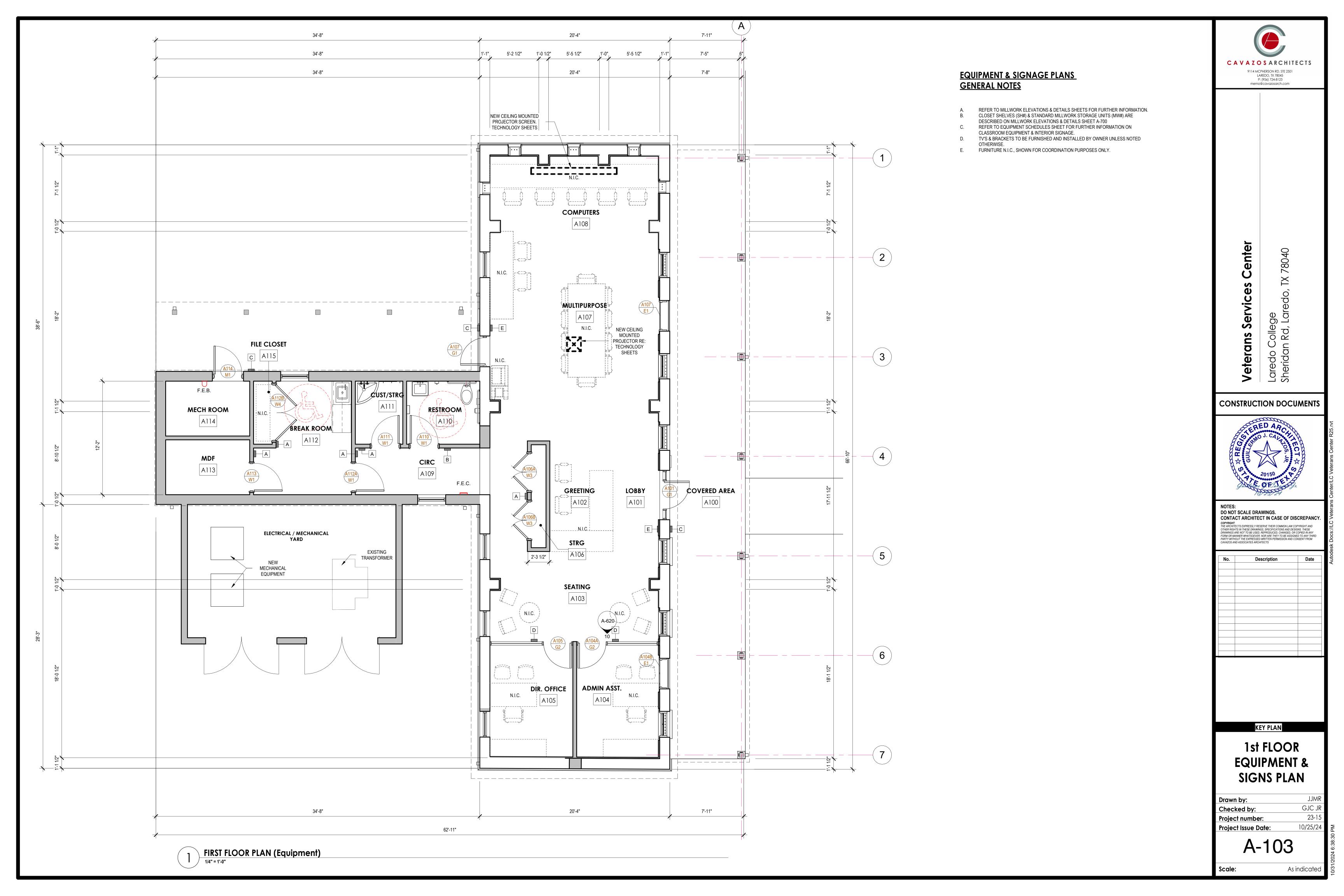
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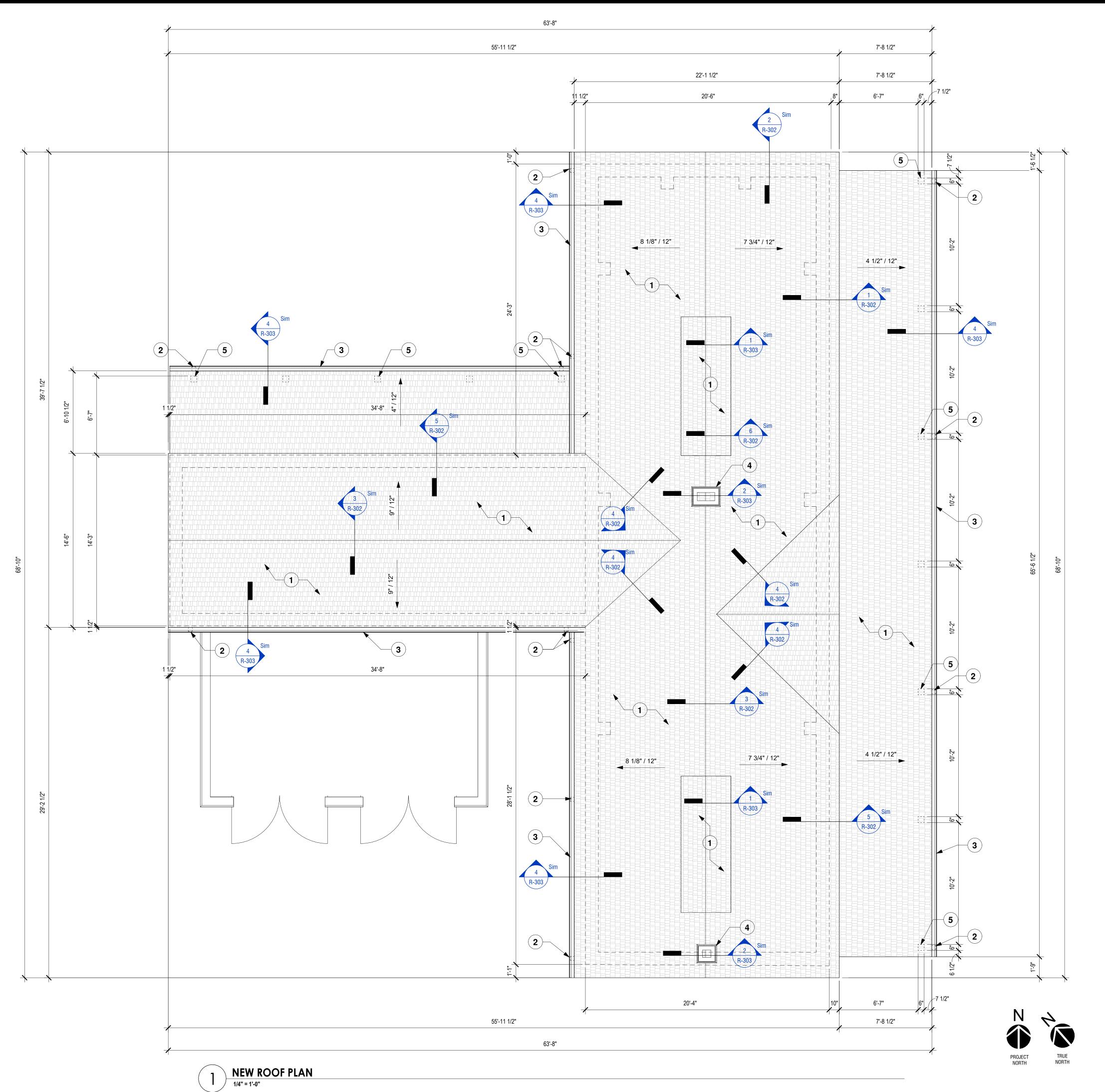
KEY PLAN

1st FLOOR PLAN

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

A-101







- A. REFER TO MECHANICAL DRAWINGS FOR VERIFICATION OF PENETRATION, NOT ALL MAY BE SHOWN. PROVIDE ALL FLASHING, GASKETING AND SEALANTS WATER TIGHT CONDITIONS AT THESE EQUIPMENT AND PENETRATIONS PER TYPICAL DETAILS.
- PROVIDE ALL FLASHING AND TRIM ACCESSORIES FOR WATER TIGHT ROOF CONSTRUCTION.
 COORDINATE ALL PENETRATION LOCATIONS WITH STRUCTURAL. PROVIDE ALL MISCELLANOUS STEEL
 CHANNEL, ANGLE FRAMING SPANNING AND ANCHORED TO STRUCTURAL MEMBERS AS NECESSARY TO
- SUPPORT AND FRAME OPENING PENETRATION IN THE ROOF DECK.
 CONTRACTOR TO COORDINATE ALL ROOF TOP MECHANICAL EQUIPMENT, EXHAUST FANS & VENTS ROOF
 CURB & SUPPORT WITH EQUIPMENT REQUIREMENTS.
- PROVIDE DOWNSPOUTS WHERE INDICATED ON ELEVATIONS, WITH MTL. SPLASHSPANS AT ALL ROOFTOP DISCHARGE LOCATIONS AND SPLASHBLOCKS AT ALL GRADE LOCATIONS NOT DISCHARGING ON CONCRETE PAVING
- REVIEW AND COORDINATE WITH STRUCT. DRAWINGS FOR STRUCTURAL DECK SLOPES.
- LOCATE PENETRATIONS AND CURBS TO NOT OBSTRUCT VALLEYS AND/OR FLOW FROM DOWNSPOUTS.
 REFER TO R-SHEETS FOR ADDITIONAL INFORMATION ON ROOF ASSEMBLY, ROOF FLASHING AND OTHER

KEYNOTE LEGEND - ROOF PLAN

<u>KEYNOIE LEGEND - ROOF PLAN</u>	
LEGEND	Description
1	NEW METAL SHAKES OVER NEW PLYWOOD DECK RE: STRUCTURAL DRAWINGS
2	NEW 4" x 4" PRE-FINISHED METAL DOWNSPOUTS COLOR BY ARCHITECT RE: SPECS
3	NEW 5" x 5" PRE-FINISHED METAL GUTTER COLOR BY ARCHITECT RE: SPECS
4	EXISTING MASONRY CHIMNEY TO REMAIN, PROTECT DURING DEMOLITION & NEW CONSTRUCTION, PATCH & REPAIR AS PER DETAILS ON SHEET R-603, REPAIR CRACKS, REPOINT MORTAR ON ENTIRE BLDG EXTERIOR; RE: SPEC SECTION 045313 MASONRY REPAIR & RESTORATION. PREPARE SURFACE TO BE LOW PRESSURE WASHED & CLEANED
5	COLUMNS BELOW; TYP.



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No. Description Date

KEY PLAN

ROOF PLAN

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

A-110





REFLECTED CEILING PLAN GENERAL NOTES

- A. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULES &
- LIGHTING LOCATIONS.

 B. REFER TO M.E.P. DRAWINGS FOR DESIGN OF DUCT SIZES,
- CIRCUITING, ETC., REFLECTED CEILING PLANS TO GOVERN LOCATION OF ITEMS INSTALLED IN CEILINGS, NOTIFY ARCHITECT IN CASE OF CONFLICTS.
- C. INSTALL REGISTERS & LIGHTING FIXTURES WITHIN CEILING GRIDS, INSTALL DOWNLIGHT FIXTURES OR OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF CEILING TILES OR CENTER OF
- CORRIDOR, UNLESS NOTED OTHERWISE.

 D. CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. ON CENTER OF CORRIDOR AND CENTERLINE OF LIGHT FIXTURES UNLESS NOTED
- E. REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, FIRE ALARM PULL, A.D.A. STROBE LOCATIONS, ETC. GC TO COORDINATE WITH OWNER & ARCHITECT FOR FINAL LOCATIONS OF ALL MEP, LIFE
- SAFETY, I.T./A.V. & SECURITY DEVICES.
 F. NO ACCESS PANELS ARE TO BE LOCATED IN GYPSUM BOARD
- CEILING OF LOBBY, VESTIBULE, PUBLIC CORRIDOR.

 G. REFER TO I.T. DRAWINGS FOR ADDITIONAL A.V. EQUIPMENT

 INFORMATION AND LOCATIONS. PROVIDE BLOCKING AS REQUIR
- INFORMATION AND LOCATIONS. PROVIDE BLOCKING AS REQUIRED FOR MOUNTING EQUIPMENT. PROVIDE MESH CABLE TRAYS AT ALL CABLE ROUTES.
- H. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS.
 I. EXTEND PERIMETER WALLS AT MECHANICAL ROOMS, ELECTRICAL





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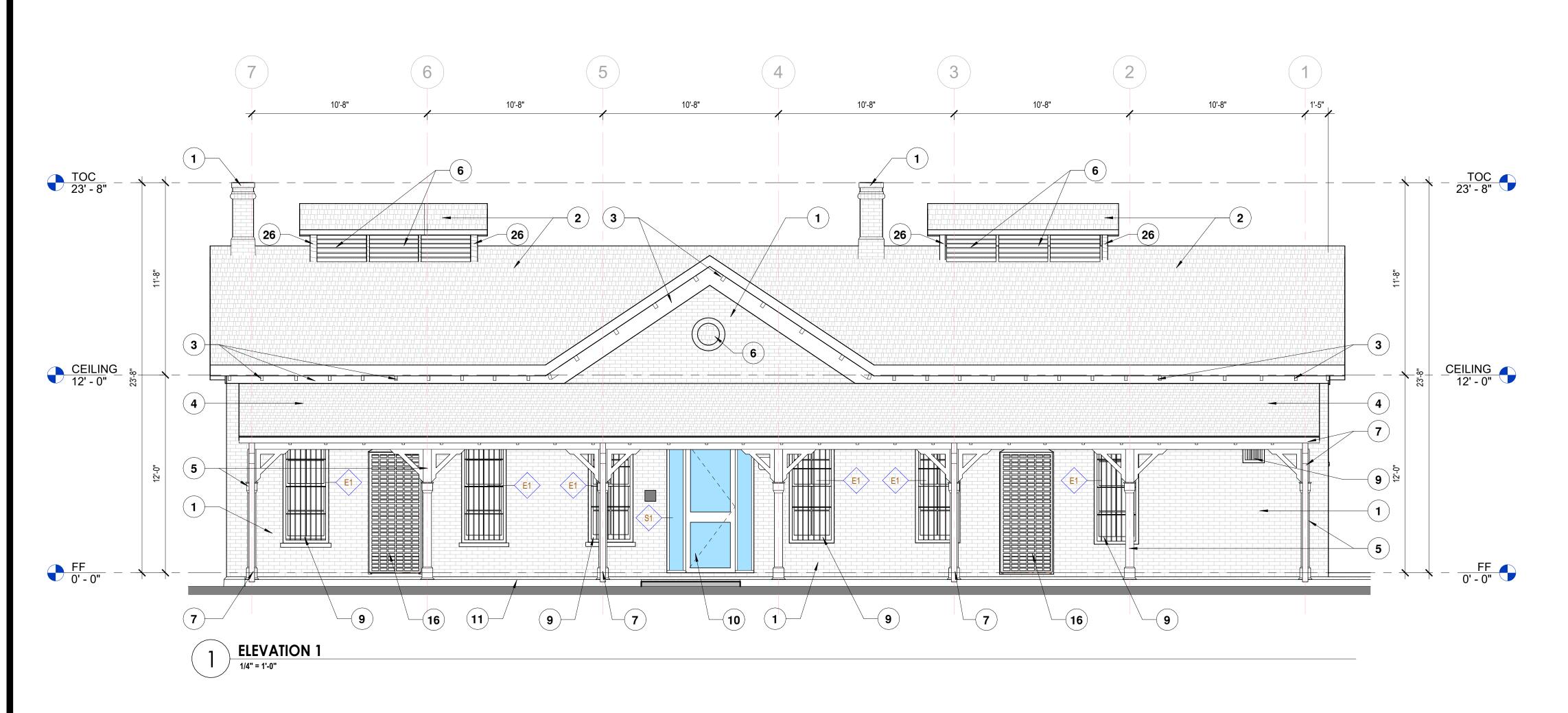
No.	Description	Date

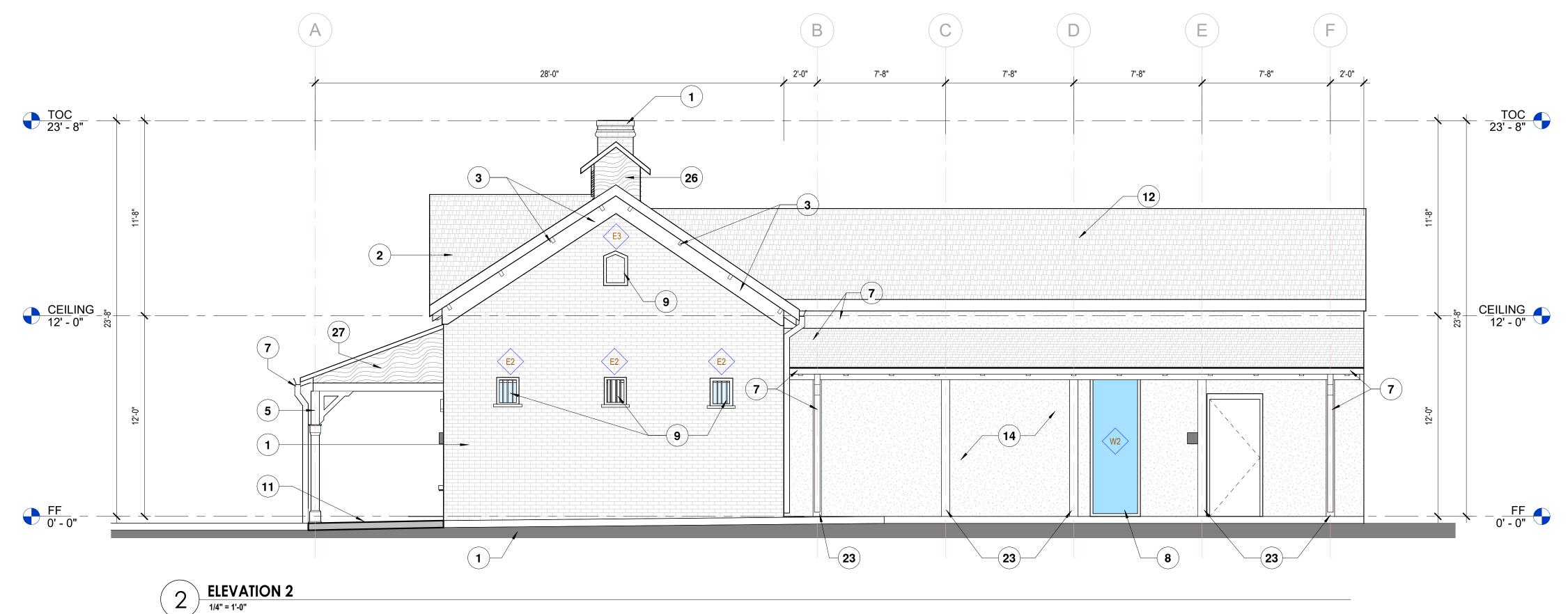
KEY PLAN

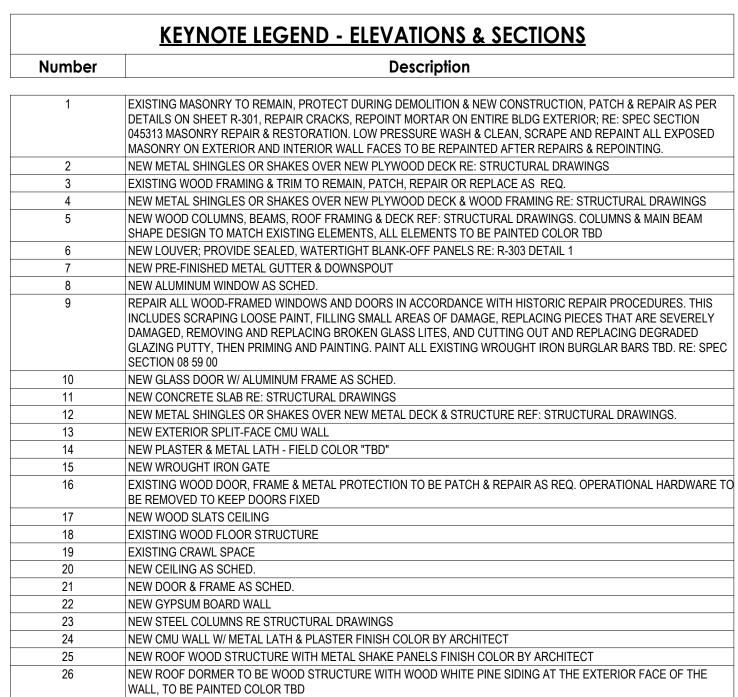
1st FLOOR RCP

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

A-120







ELEVATIONS GENERAL NOTES

- TYP CONTROL JOINT TO BE 3/8" WITH BACKER ROD AND SEALANT.
- ALL LETTERS DEPICTED ON DRAWINGS TO BE CAST ALUMINUM; G.C. TO PROVIDE SHOP DRAWINGS FOR APPROVAL.
- ELEVATION GENERAL NOTES SHALL APPLY TO ALL ELEVATION SHEETS.

NEW WOOD WHITE PINE SIDING, TO BE PAINTED COLOR TBD

- PROVIDE 1" THRU WALL EXPANSION JOINTS AT ALL BUILDING EXPANSION JOINTS, WITH BACKER
- RODS AND SEALANT.
- RUNNING BOND IS TYPICAL UNLESS NOTED OTHERWISE.
- ALLOW FOR A MINIMUM 3 COURSE BRICK LUG ALL AROUND BELOW FINISH FLOOR, BACKGROUTED WITH CONT. MWP-4 FLASHING WITH WEEPS 30 "O.C. MAX. AND MORTAR NET IN CAVITY.
- REFER TO CIVIL FOR FINISH GRADING AT BUILDING.
- REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS.
- PROVIDE 12" HIGH SHEET METAL EXPANSION JOINTS IN THE ROOFING WHERE BUILDING EXPANSION JOINTS OCCUR, WITH TREATED WOOD BLOCKING AND MWP-II SELF ADHERING WATERPROOFING UNDERLAYMENT, ALLOWING 1" HORIZONTAL MOVEMENT, COMPLIANT WITH SMACNA RECOMMENDATIONS.
- ALL BUILDING MASONRY PARAPET WALLS ARE TO BE PROVIDED WITH PREFINISHED SHEET METAL
- PARAPET CAPS ON TREATED WOOD BLOCKING WITH MWP-11 WATERPROOFING. PROJECTING AND RECESSED BRICK DETAILS AT STRING COURSES, LINTELS, SILLS AND RECESSED

PANELS SHALL NOT EXCEED 1" IN DIFFERENTIAL TO THE MAIN WALL SURFACE.



CONSTRUCTION DOCUMENTS

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Description

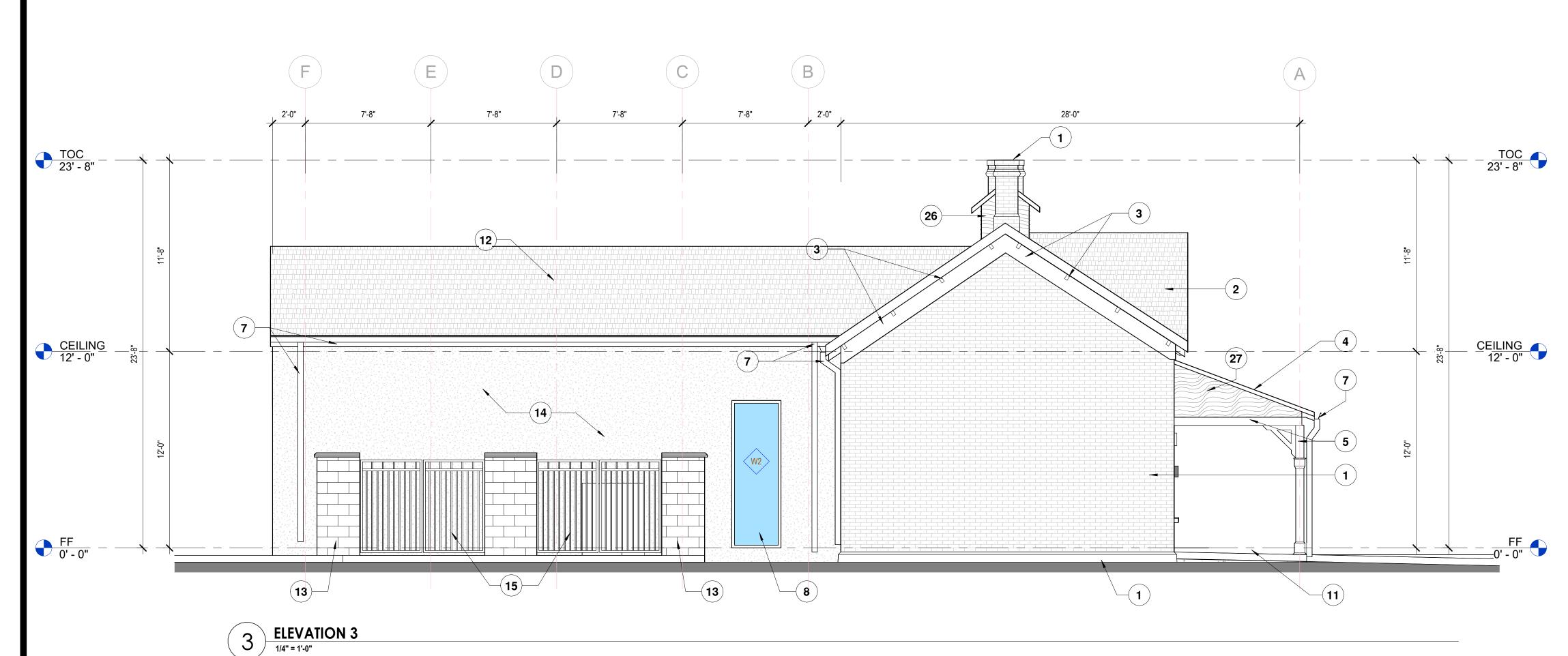
Drawn by: GJC JR Checked by: Project number: 23-15 10/25/24 Project Issue Date:

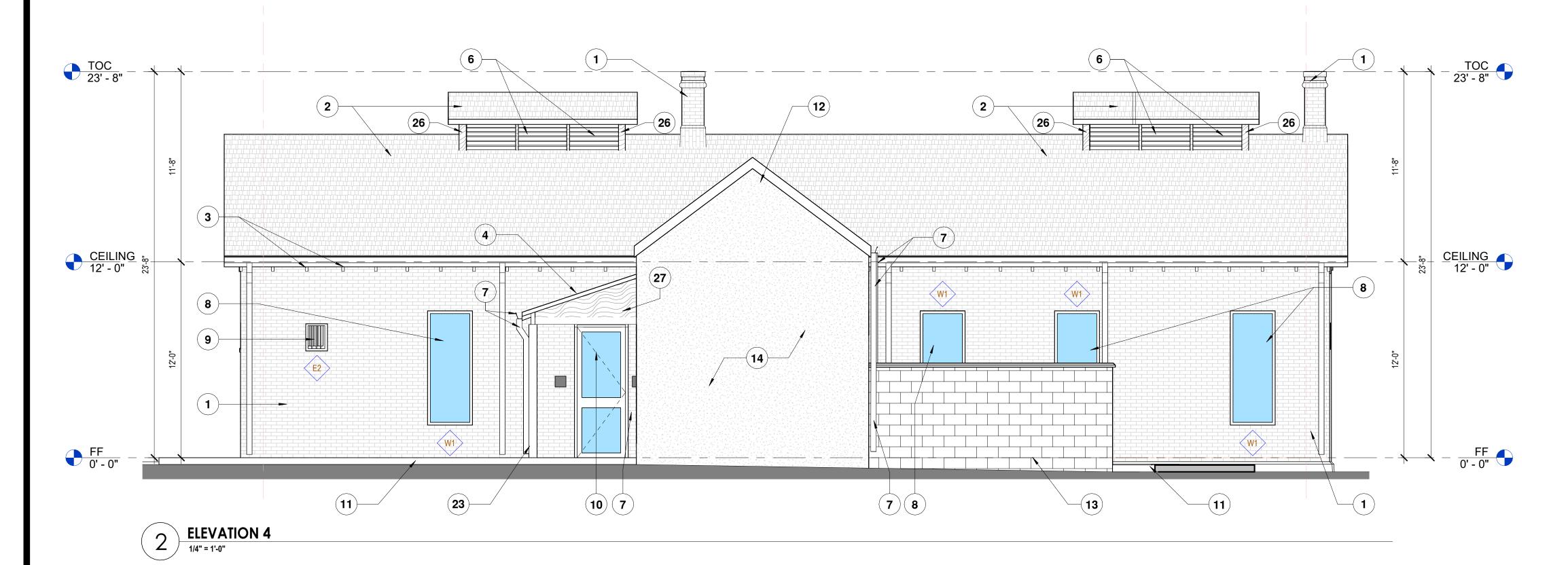
A-201

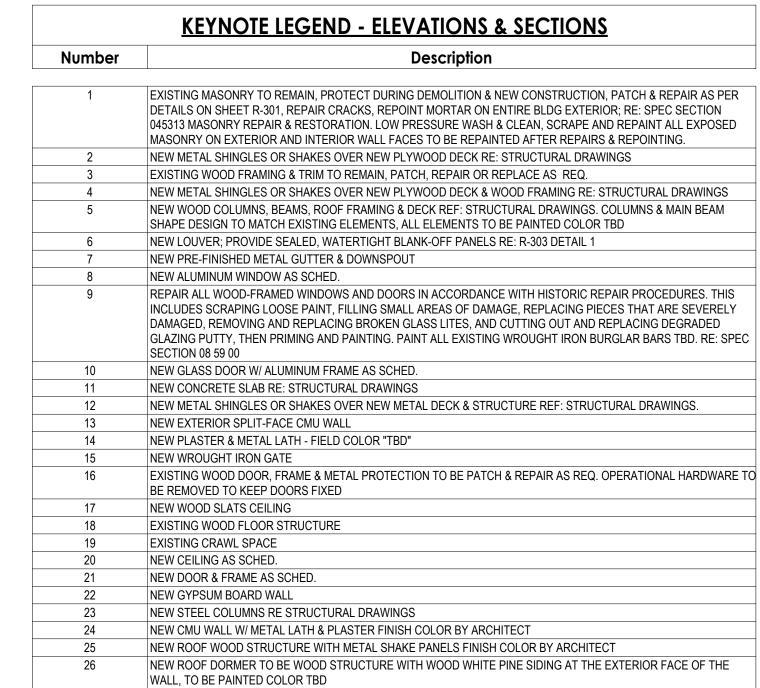
Scale:

As indicated

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CAVAZOS AND ASSOCIATES ARCHITECTS **KEY PLAN** BUILDING **ELEVATIONS**







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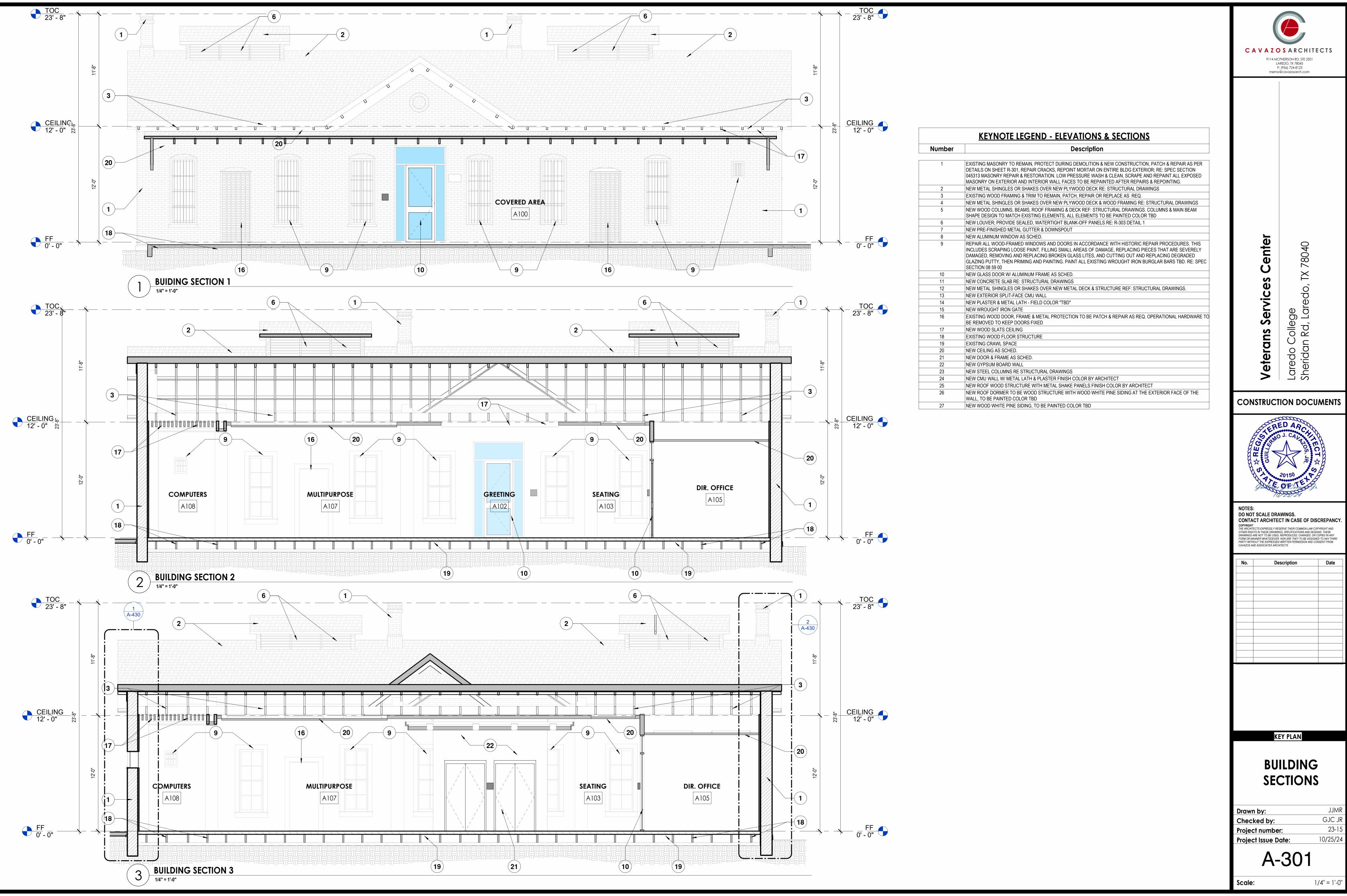
Description

KEY PLAN

BUILDING **ELEVATIONS**

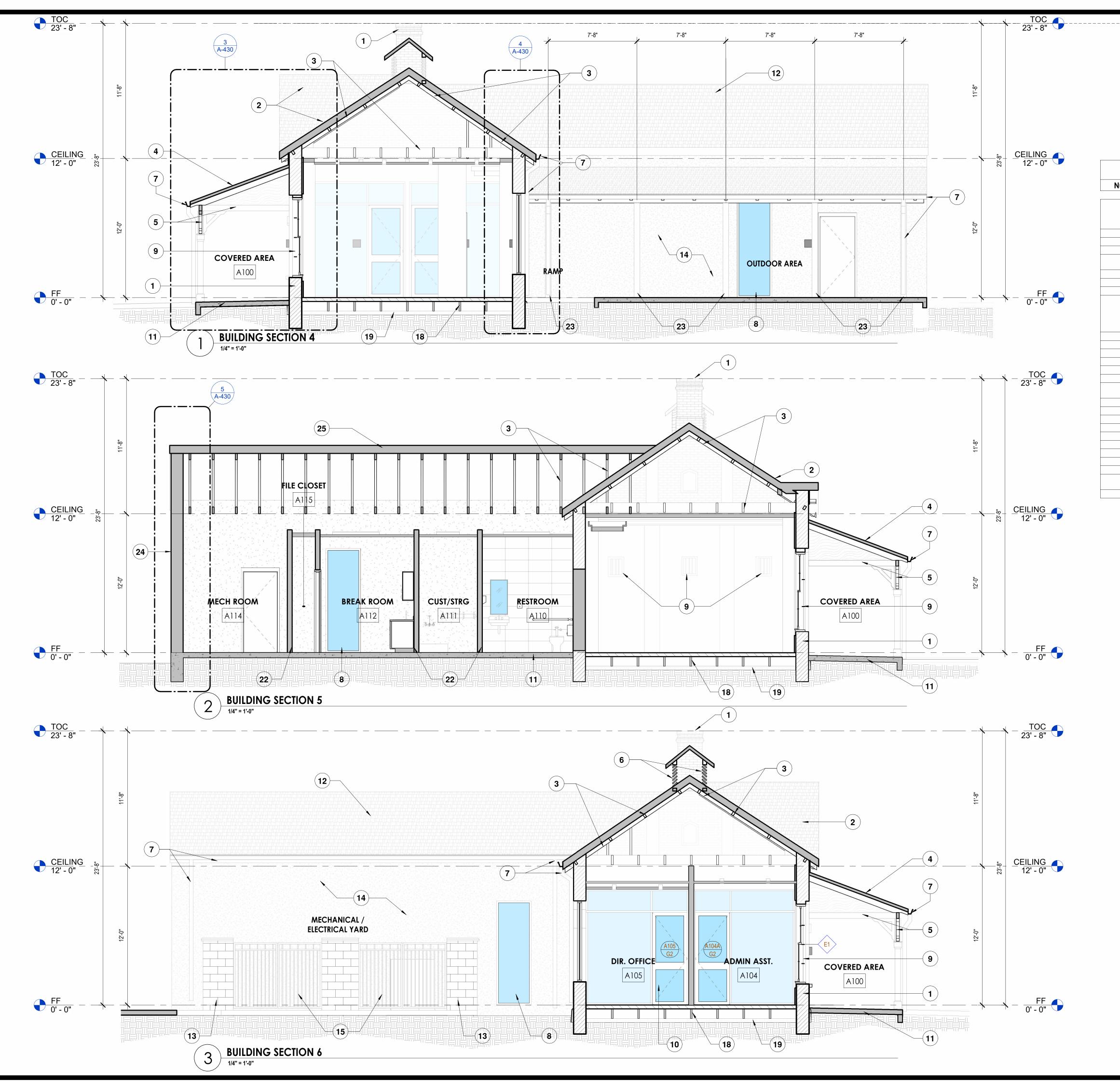
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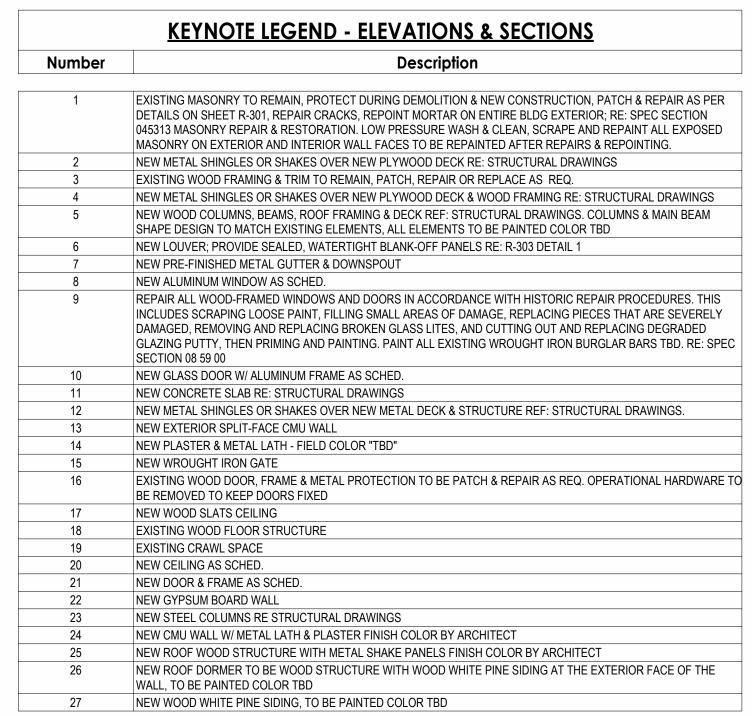
A-202





GJC JR 23-15 10/25/24







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Description Date

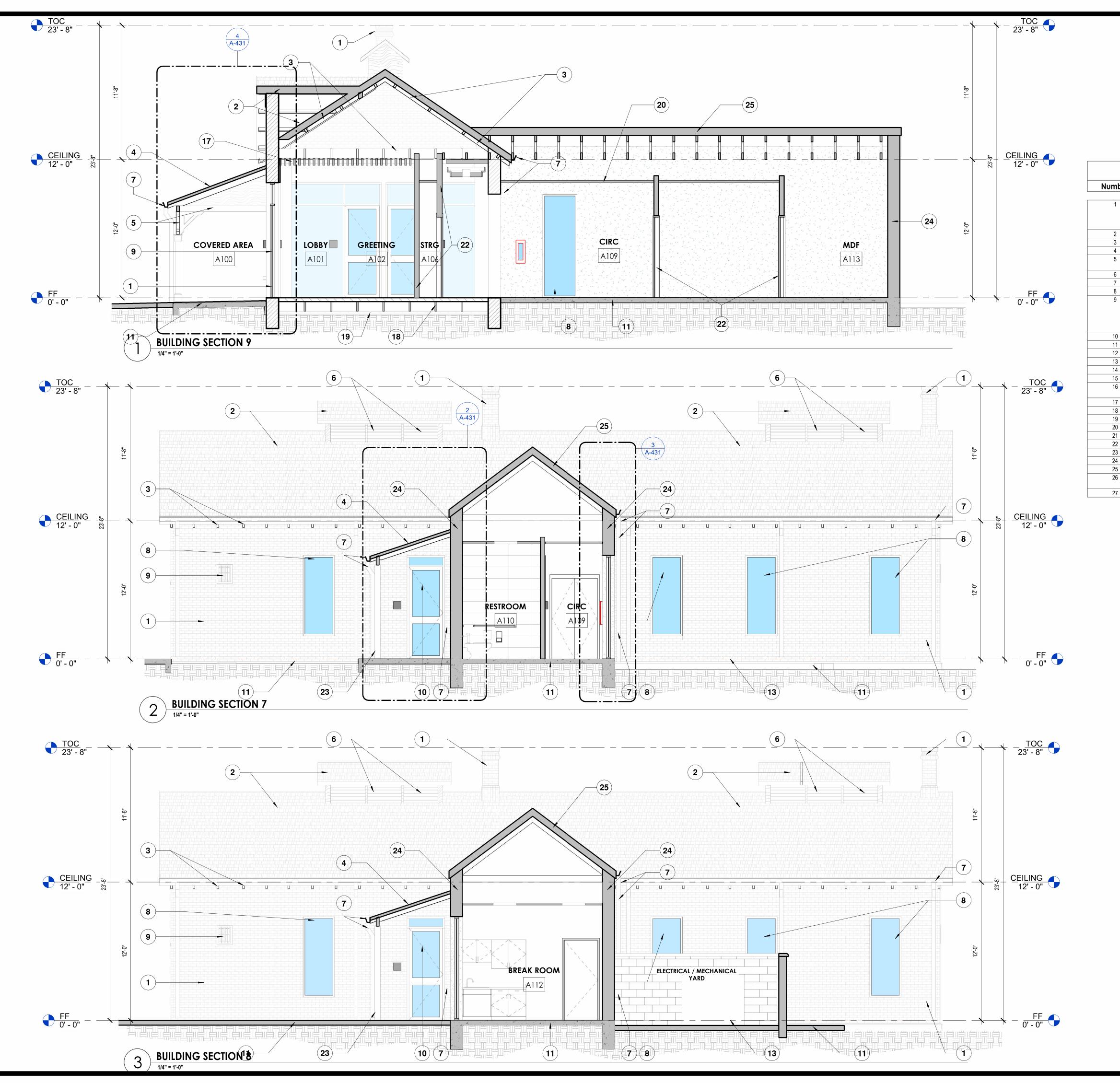
KEY PLAN

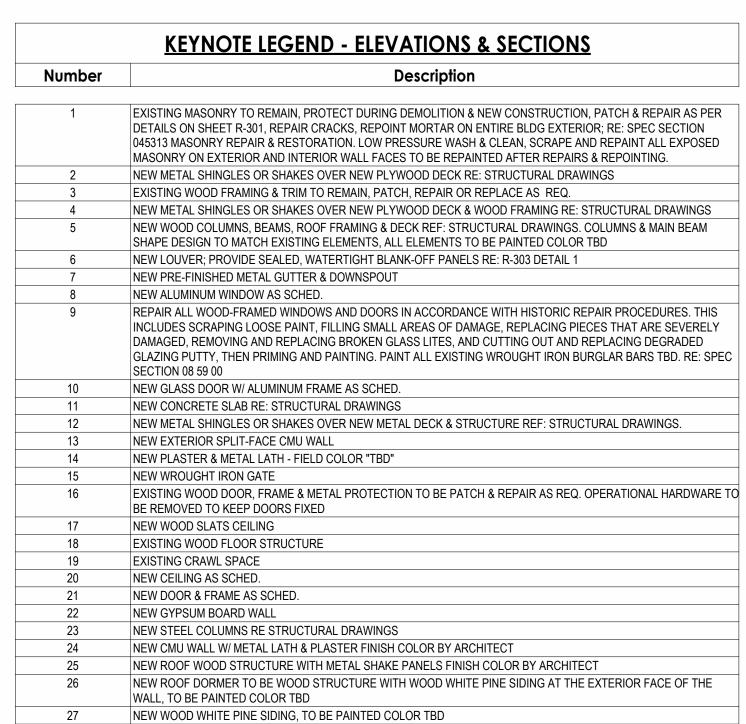
BUILDING SECTIONS

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

A-302

1/4" = 1'-0"







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No.	Description	Date

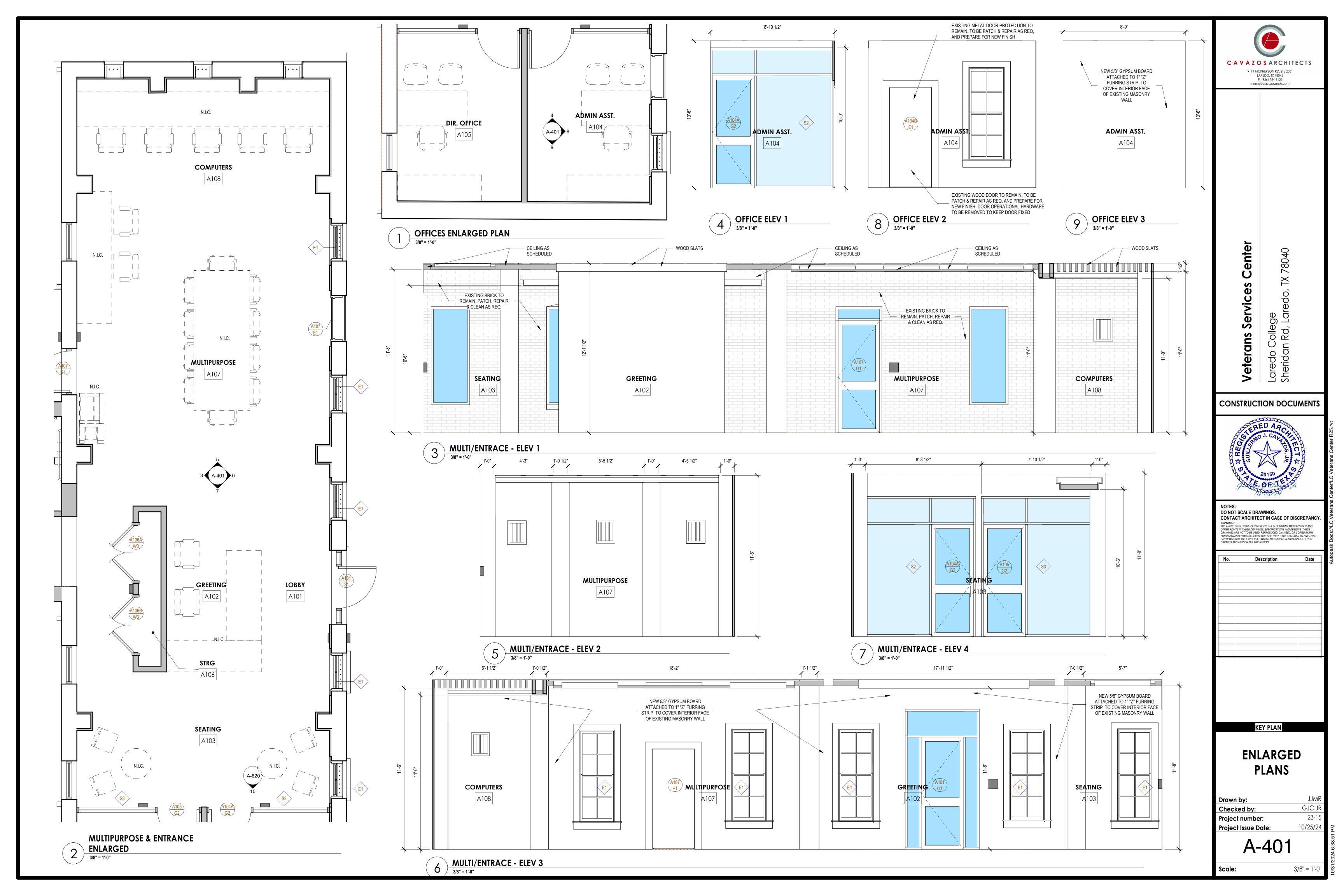
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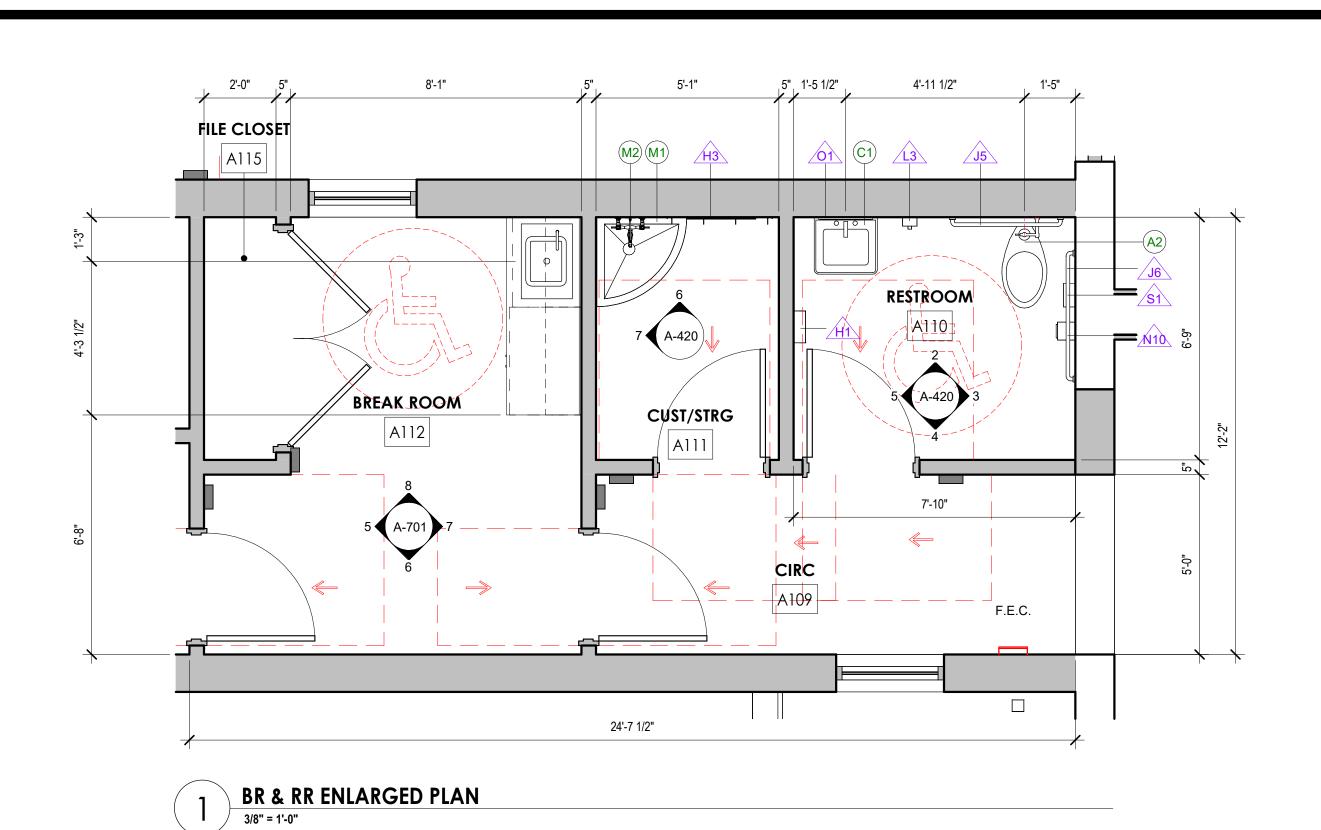
BUILDING SECTIONS

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

A-303

1/4" = 1'-0"





RESTROOM ACCESSORY SCHEDULE							
			Basis of Design				
Type	Description	Manufacturer	Model				
		,	,				
- 11	Surface Mounted Hand Dryer (Adult)	American Specialties, Inc.	0199-00 Turbo-Pro High Speed ADA Hand Dryer				
- 13	36" Long Stainless Steel Hook Strip	American Specialities, Inc.	10-8215-4				
J5	36" Grab Bar	American Specialties, Inc.	10-3801-36				
J6	42" Grab Bar	American Specialties, Inc.	10-3801-42				
_3	Soap Dispenser (Adult)	American Specialties Inc.	0347				
N10	Multi-Roll Toilet Tissue Dispenser (Adult)	American Specialties Inc.	0030				
D1	Mirror: 18" Wide x 36" High (Adult)	American Specialties Inc.	10-0620-1836				
	- ' '	·					

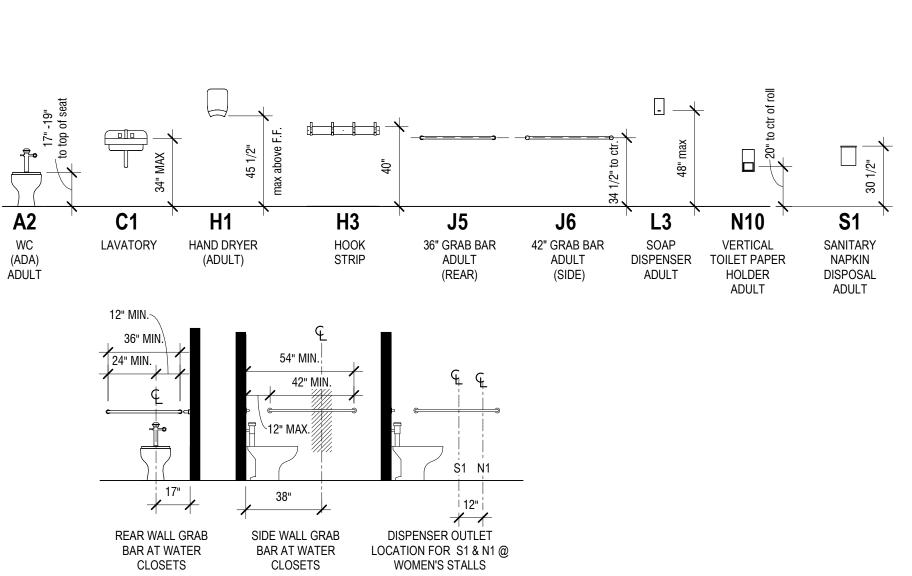
American Specialties Inc.

PLUMBING FIXTURE SCHEDULE						
Type Mark	Description	Specification				
A2	Water Closet - Floor Mounted - Adult ADA	refer to MEP Specifications				
C1	Wall-Hung Lavatory (Adult)	refer to MEP specifications				
M1	Corner Mop Sink; RE: MEP Specs	refer to MEP				
M2	Service Sink Faucet, Fiat Products 830AA	refer to MEP specifications				

Sanitary Napkin Disposal

RESTROOM GENERAL NOTES

- ALL FIXTURES AND ACCESSORIES SHALL BE MOUNTED AT HEIGHTS DESCRIBED IN MOUNTING HEIGHT LEGEND
- PROVIDE ADEQUATE BLOCKING FOR GRAB BAR SUPPORT
- PROVIDE NO LESS THAN 250 POUNDS OF VERTICAL OR HORIZONTAL FORCE.
- VARIFY LOCATIONS & MOUNTING HEIGHTS OF ACCESSORIES WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE "LATACRETE WATERPROOFING UNDER ALL CERAMIC
- TILE AREAS.



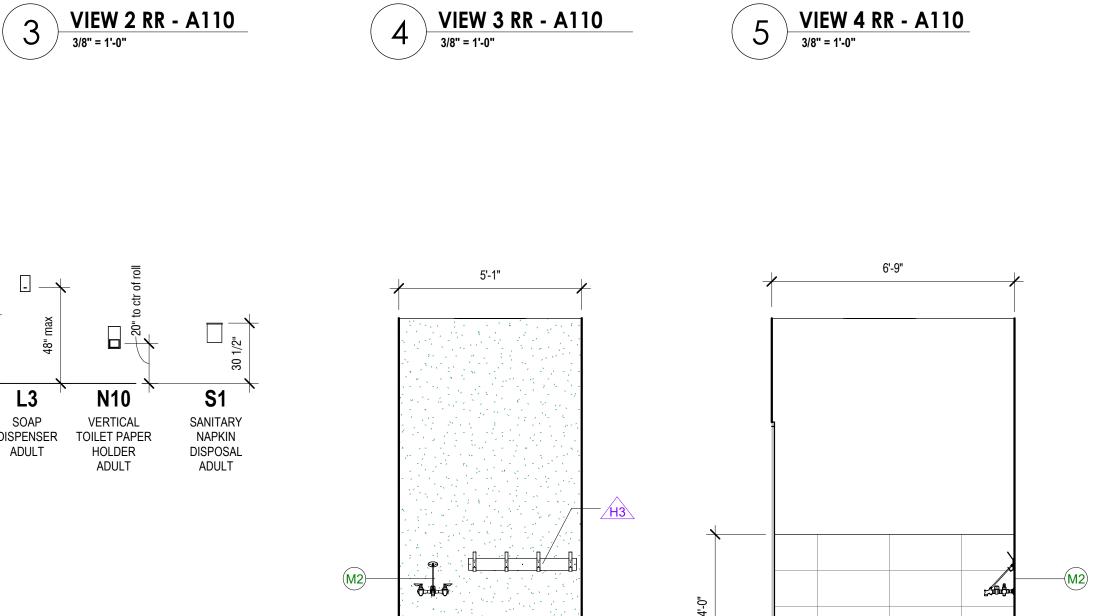
6'-9"



<u>C1</u>

4'-11 1/2"

VIEW 1 RR - A110



6 VIEW 1 CUST - A111



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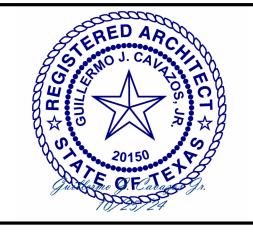
6'-9"

VIEW 2 CUST - A111

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Date Description

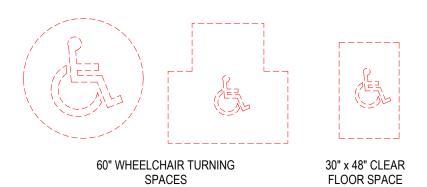
KEY PLAN

RR PLANS & **ELEVATIONS**

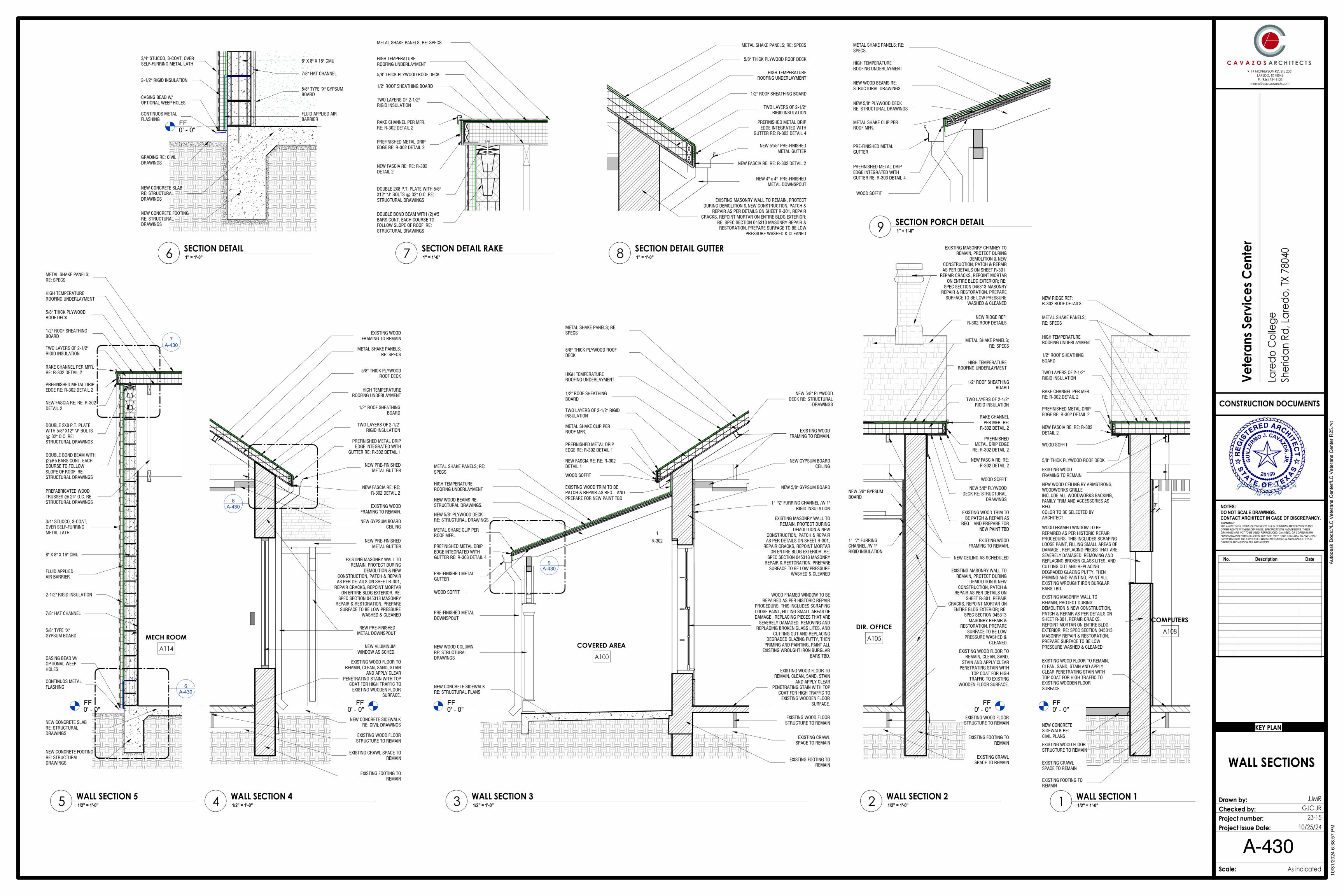
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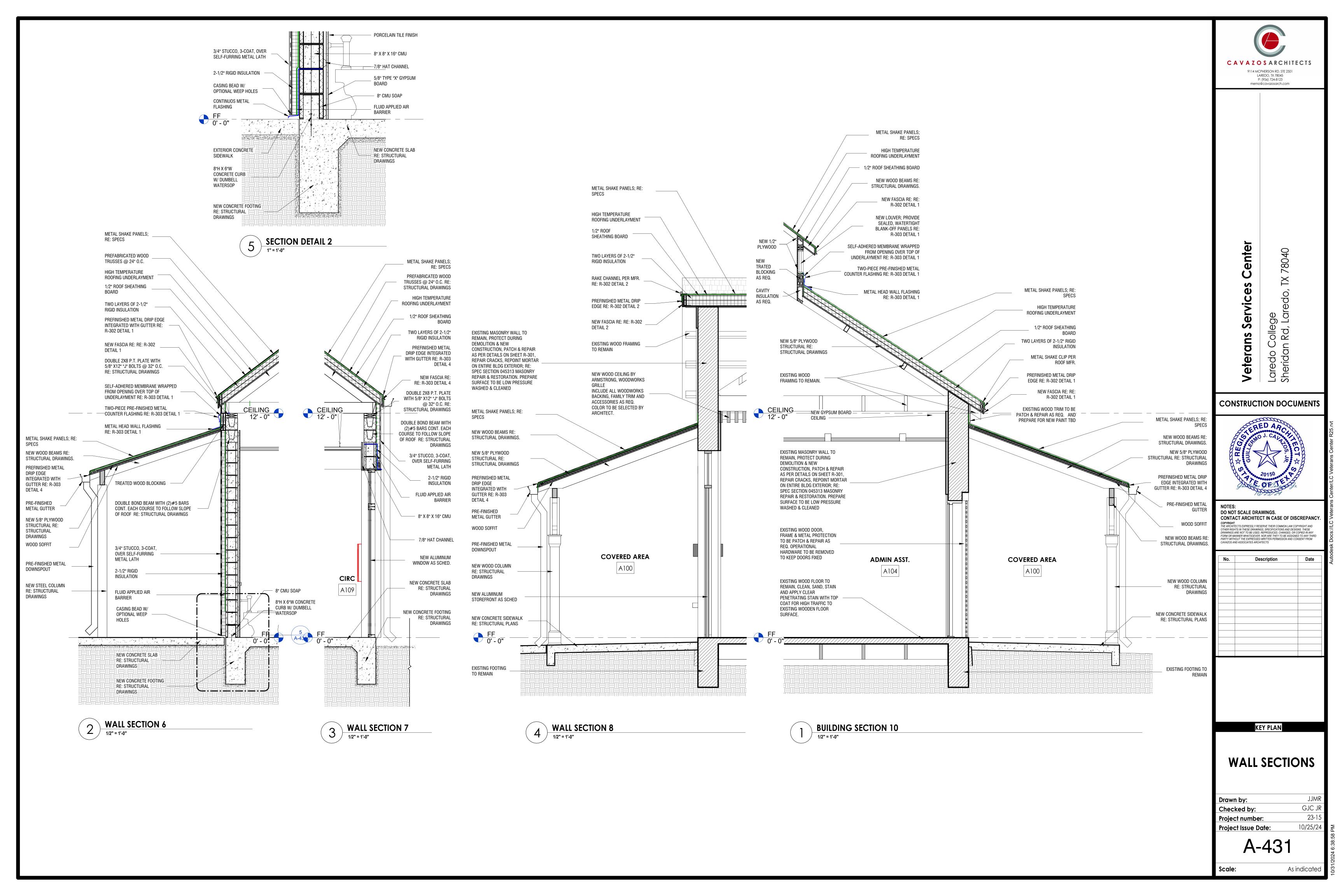
A-420

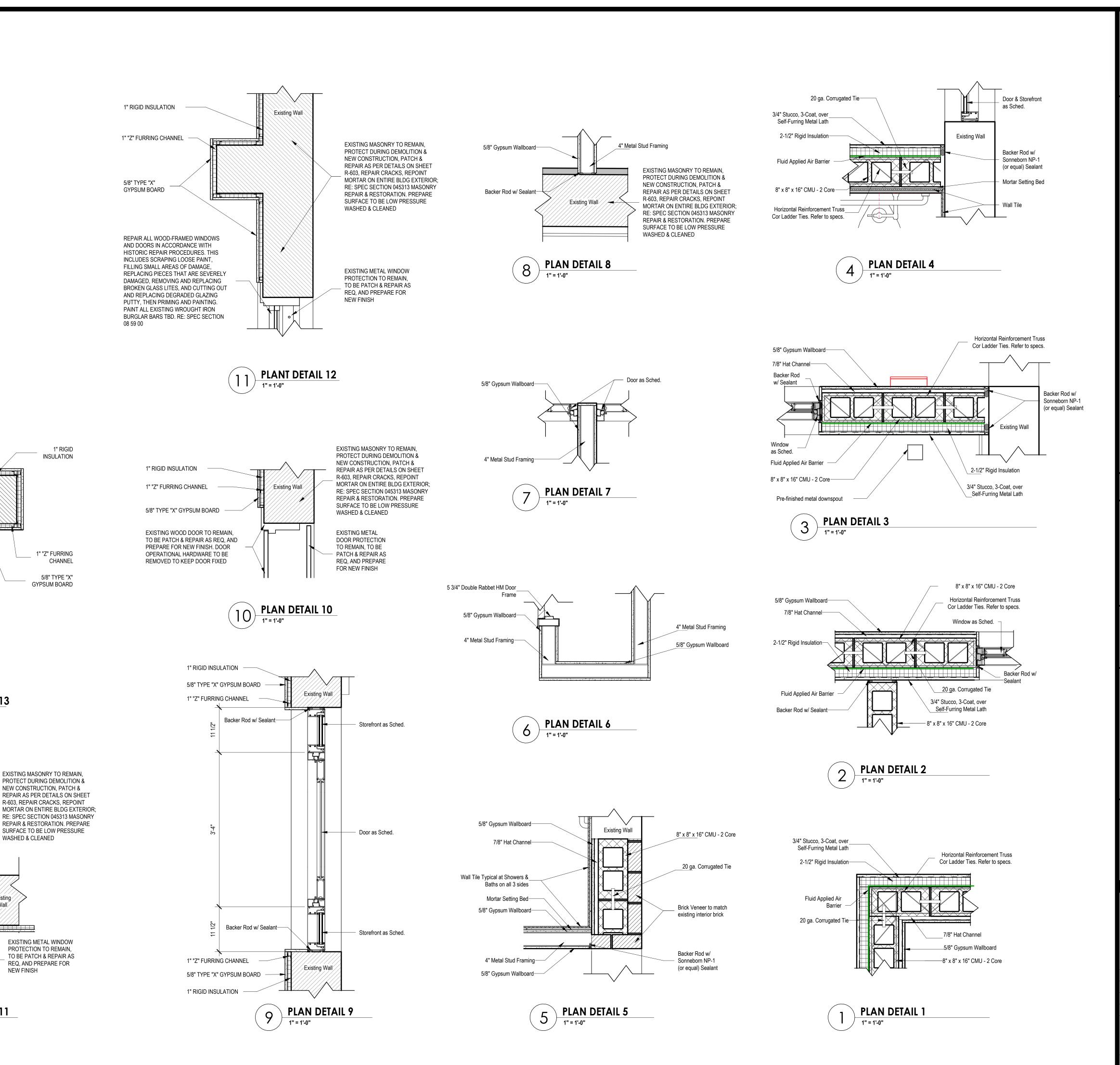
As indicated Scale:











Existing Wall

13 PLAN DETAIL 13

CHANNEL

WASHED & CLEANED

REQ, AND PREPARE FOR

NEW FINISH

∕/Wall/

EXISTING MASONRY TO REMAIN,

PROTECT DURING DEMOLITION &

REPAIR AS PER DETAILS ON SHEET

MORTAR ON ENTIRE BLDG EXTERIOR;

RE: SPEC SECTION 045313 MASONRY

REPAIR ALL WOOD-FRAMED WINDOWS

AND DOORS IN ACCORDANCE WITH

HISTORIC REPAIR PROCEDURES. THIS

REPLACING PIECES THAT ARE SEVERELY

DAMAGED, REMOVING AND REPLACING BROKEN GLASS LITES, AND CUTTING OUT

AND REPLACING DEGRADED GLAZING

PUTTY, THEN PRIMING AND PAINTING.

PAINT ALL EXISTING WROUGHT IRON

08 59 00

1" RIGID INSULATION

1" "Z" FURRING CHANNEL

5/8" TYPE "X" GYPSUM BOARD

BURGLAR BARS TBD. RE: SPEC SECTION

/Existing/

//Wall/

INCLUDES SCRAPING LOOSE PAINT, FILLING SMALL AREAS OF DAMAGE,

REPAIR & RESTORATION. PREPARE

SURFACE TO BE LOW PRESSURE

WASHED & CLEANED

NEW ALUMINUM WINDOW AS SCHED:

R-603, REPAIR CRACKS, REPOINT

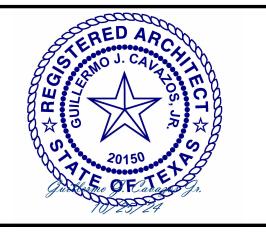
NEW CONSTRUCTION, PATCH &

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Date Description

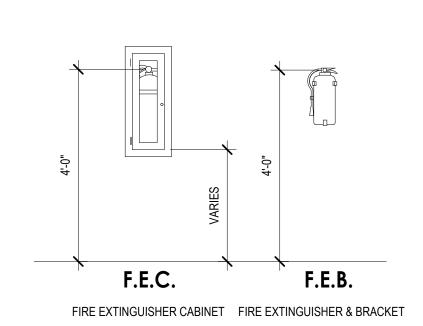
KEY PLAN

PLAN DETAILS

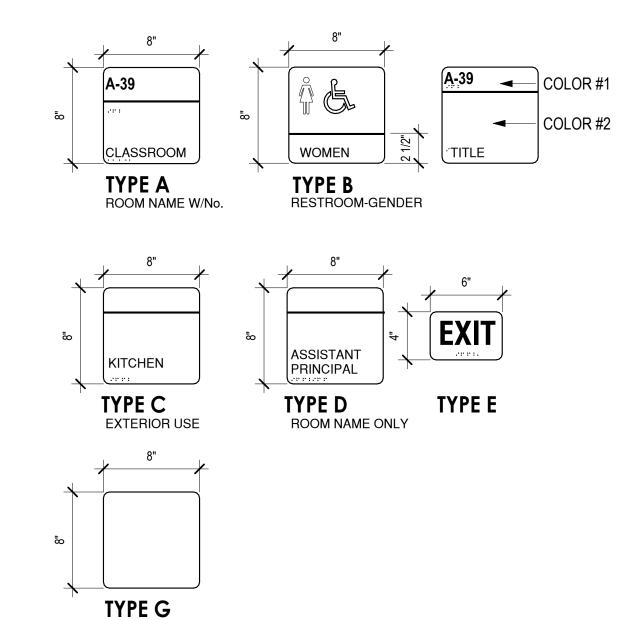
Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

A-501

1" = 1'-0"



NOTE: ALL FIRE EXTINGUISHERS TO BE IN SEMI-RECESSED CABINETS OR ON SURFACE MOUNTED BRACKETS AS PER SPECS



NOTE: ALL FINISHES DESCRIPTIONS BELOW ARE CONSIDERED A "BASIS OF DESIGN", CONSIDER THAT AN "EQUAL" PRODUCT MAY BE SUBSTITUTED FOR ANY OF THE PRODUCTS BELOW, BUT THEY MUST BE APPROVED BY ARCHITECT PRIOR TO FINALIZING BID PRICES.

FLOOR

EXPOSED CONCRETE; BROOM

WF-1

WF-1

WF-1

WF-1

PT-2, PT-3

EPX

PT-1

PT-1

EPX

PT-1

BASE

ROOM NAME

COVERED AREA

GREETING

SEATING

ADMIN ASST

DIR. OFFICE

MULTIPURPOSE

COMPUTERS

RESTROOM

CUST/STRG

MDF

BREAK ROOM

MECH ROOM

FILE CLOSET

STRG

A104

A110

A112

A113

	<u>FINISHES DESCRIPTIONS</u>	
Key Name	Finish Description	Specification Section
ACT	Acoustical Ceiling Grid & Tile System; Re: RCP for Ceiling Types.	09 51 13, 09 51 15
EPX	Epoxy Floor Coating System Armor Seal Tread-Plex	09 90 00
GB-1	5/8" Type X Gypsum Board, Painted	09 21 16
GB-2	Moisture & Mold resistant Glass-Mat Panels, 5/8" thick	09 21 16
GCB	1/2" Moisture-Resistant Type X Gypsum Board on Metal Stud framing, Painted; Re: Specs	09 21 16
GT	Glazed Wall Tile; Vitromex Subway Tile - 3" x 10" (Brooklyn Series), Color: Oyster	09 30 00
PA	Paint Finish	09 90 00
PT-1	Porcelain Floor Tile; Provide \$5/sf Material Allowance; Model and Color to be determinated by Architect;	09 30 00
PT-2	Porcelain Accent Floor Tile: Daltile Quartetto. Color: Ocra. Banding to be 4"x8" (Field-Cut 8" x 8" tile). or architect approved equal:	09 30 00
PT-3	Porcelain Floor Tile; Daltile Warm Grande Fiore 8x8 Tile QU12 (note: 4 tiles make up pattern of 16" x 16" size, or architect approved equal	09 30 00
ТВ	4" Floor Bullnose Base; Match Adjacent Floor Tile Color & Finish	09 30 00
TEC	2" Thick Armstrong Direct Attach Tectum Panels; mount on wood furring strips; Mounting Method C-40; Provide batt insulation behind panels as per mounting method	09 84 00
VΒ	4"H Roppe Vinyl Wall Base; Color By Architect	09 65 13
NB	6"H paint-grade wood base board; profile to be selected by Architect	
WF-1	Clean, sand, stain, and apply clear penetrating stain with top coat for high traffic to existing wooden floor surface in all existing rooms with wooden floors.	
WS-1	Wood Slats; re: RCP & Ceiling Schedule	09 51 26
NS-2	1x6 Tongue & Groove Wood Soffit; Traditional Series by Woodtone; color to be selected by Architect from manufacturer's full range	

ROOM FINISH SCHEDULE

CEILING

ACT

ACT

ACT

EXPOSED TO

STRUCTURE

OF DECKING

WALLS

PA: EXISTING BRICK TO BE PAINTED ON WEST EXTERIOR | WS-1

PA: EXISTING BRICK TO BE PAINTED ON WEST EXTERIOR | WS-1

PA: EXISTING BRICK TO BE PAINTED ON WEST EXTERIOR ACT

PA: EXISTING BRICK TO BE PAINTED ON WEST EXTERIOR ACT & GCB

PA: EXISTING BRICK TO BE PAINTED ON WEST EXTERIOR ACT-1 & GCB

PA: EXISTING BRICK TO BE PAINTED ON WEST EXTERIOR WS-1 & GCB

WALL; ALL OTHER WALLS TO RECEIVE GB-1 FINISH

EXISTING WALLS TO REMAIN: PA

PA (GB-1)

PA (GB-1)

PA (GB-1)

PA (GB-1)

PA (GB-1)

PA (TEC)

PA (GB-1)

GT-1 FROM FLOOR TO CEILING

PT-2 UP TO 4'-0" H. PA (GB-2)

FINISH SCHEDULE NOTES:

COMMENTS

PAINT ALL EXPOSED STRUCTURAL ELEMENTS, WOOD TRIMS, COMPONENTS, AND UNDERSIDE

EXISTING WEST BRICK WALL TO BE PATCHED & REPAIRED AND CLEANED, AS PER SPECS

EXISTING WEST BRICK WALL TO BE PATCHED & REPAIRED AND CLEANED, AS PER SPECS

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TECTUM PANELS TO BE INSTALLED FROM FLOOR TO CEILING ON ALL 4 WALLS

- Product substitutions will be allowed as per Section 012500
- Substitution Procedures Architect must approve all material selections & substitutions Provide physical samples to architect for each product for
- verification and selection. Provide mock-ups of paint samples on site for architect approval. Installation for all materials must follow manufacturer's guidelines
- and installation procedures. Refer to specifications for additional information.

TILE INSTALLATION NOTES:

COVER 1/8" GAP.

- 1. PROVIDE CRACK ISOLATION OR ANTI-FRACTURE MEMBRANE AT ALL EXISTING CRACKS & JOINTS IN SLABS AS PER MANUFACTURER'S 2. PROVIDE EXPANSION JOINTS EVERY 20'-25' MINIMUM IN ALL DIRECTIONS. ARCHITECT TO
- PROVIDE DRAWING WITH EXPANSION JOINT LOCATIONS. 3. PROVIDE FLOORING TRANSITION STRIPS AS REQUIRED AT ALL FLOOR FINISH
- TRANSITIONS. TYPICAL. 4. DO NOT INSTALL GROUT WHERE TILE MEETS WALL CONDITION. LEAVE A 1/8" AIR GAP TO ALLOW FOR EXPANSION. TILE BASE UNIT WILL

SIGNAGE NOTES

SIGNAGE BASIS OF DESIGN:

ADA COMPLIANT SIGNAGE

ALL COLORS BY ARCHITECT

INTERIOR SIGNAGE SPECIFICATIONS

BACK UP (blank)

- 1. SIGNAGE SHALL BE SIMILAR TO OR EQUAL TO: NATIONAL SIGNAGE AFFILIATES CCSW
- ARCHITECTURAL GRAPHICS STANDARD SIGN TYPES, ACCENT SERIES WITH VISITOUCH
- ADA FONTS. 2. FOR EXTERIOR ROOM SIGNAGE PROVIDE A .080 ALUMINUM SIGN
- PAINTED WITH MATTHEWS ACRYLIC POLYURETHANE PAINT AND FINISHED WITH A CLEAR COAT
- 3. PROVIDE A BLANK BACK UP WITH COLOR MATCHING FACE COLOR FOR GLASS MOUNTING.
- 4. SIGNAGE SUPPLIER TO PROVIDE SHOP DRAWING AND SAMPLE SUBMITTALS FOR APPROVAL.

COLOR SCHEME:

- 1. BACKGROUND COLORS: TBD
- 2. TEXT COLOR: *TBD*
- 3. LINE COLOR: COLOR TO MATCH TEXT COLOR SELECTION.
- 4. EDGE COLOR: PAINTED TO MATCH FACE LAMINATE COLOR.

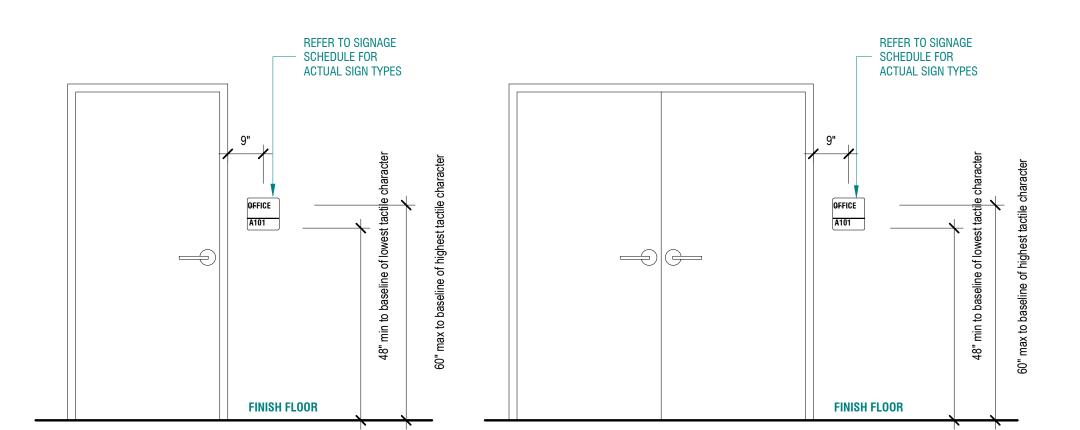
SIGN CENTER

18" Minimum

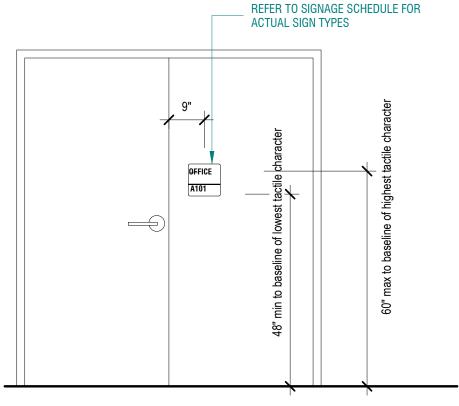
REFER TO SIGNAGE SCHEDULE FOR

ACTUAL SIGN TYPES

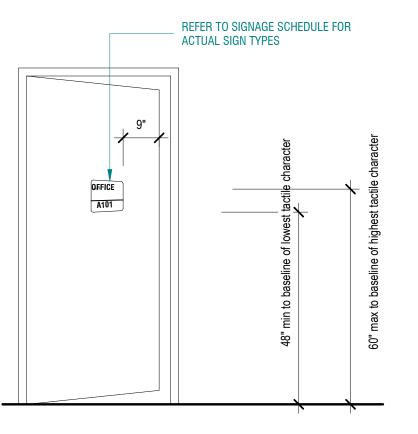
- 5. FONT: HELVETICA 721. 6. RADIUS: 1/2".
- 7. MOUNTING: 3M VHB FOAM TAPE/SILICONE.



DOUBLE DOORS (TWO ACTIVE LEAVES): SIGN SHALL BE LOCATED TO THE RIGHT OF RIGHT HANDED DOOR.



DOUBLE DOORS (ONE ACTIVE LEAF): SIGN SHALL BE LOCATED ON INACTIVE LEAF.

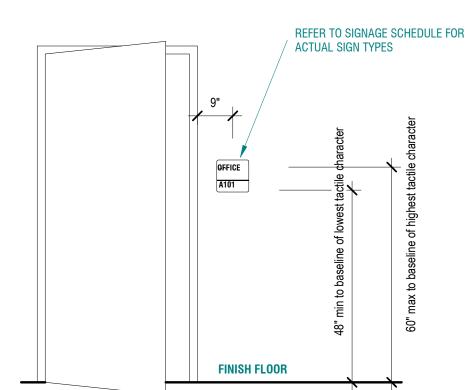


ACCENT SERIES BY CORPUS CHRISTI STAMPWORKS

SUBMIT SHOP DRAWINGS FOR APPROVAL, INCLUDING

QUANTITIES, LOCATIONS, AND SIGNAGE TYPES.

INWARD SWINGING DOORS: SIGN MAY BE MOUNTED ON DOOR IF THE THREE CRITERIA ARE MET: 1) THE DOOR CLOSES AUTOMATICALLY, 2) THE SIGN IS MOUNTED ON THE PUSH SIDE OF THE DOOR, 3) THE DOOR DOES NOT HAVE A HOLD-OPEN DEVICE. (COMMON EXAMPLES OF DOORS THAT MEET THESE CRITERIA ARE KITCHEN DOORS, REST ROOM DOORS, ETC).



IN THE CASE OF OUTWARD SWINGING DOORS, THE SIGN MUST BE MOUNTED TO THE WALL OUTSIDE OF THE ARC OF THE DOOR SWING. THE SIGN SHOULD BE LOCATED WITHIN AN 18"x18" SQUARE OF CLEAR FLOOR SPACE (18" AWAY FROM THE DOOR AND 18" AWAY FROM WALL). SEE DIAGRAM.

CONSTRUCTION DOCUMENTS DO NOT SCALE DRAWINGS.

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Date Description

KEY PLAN

ROOM FINISH SCHEDULE

Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

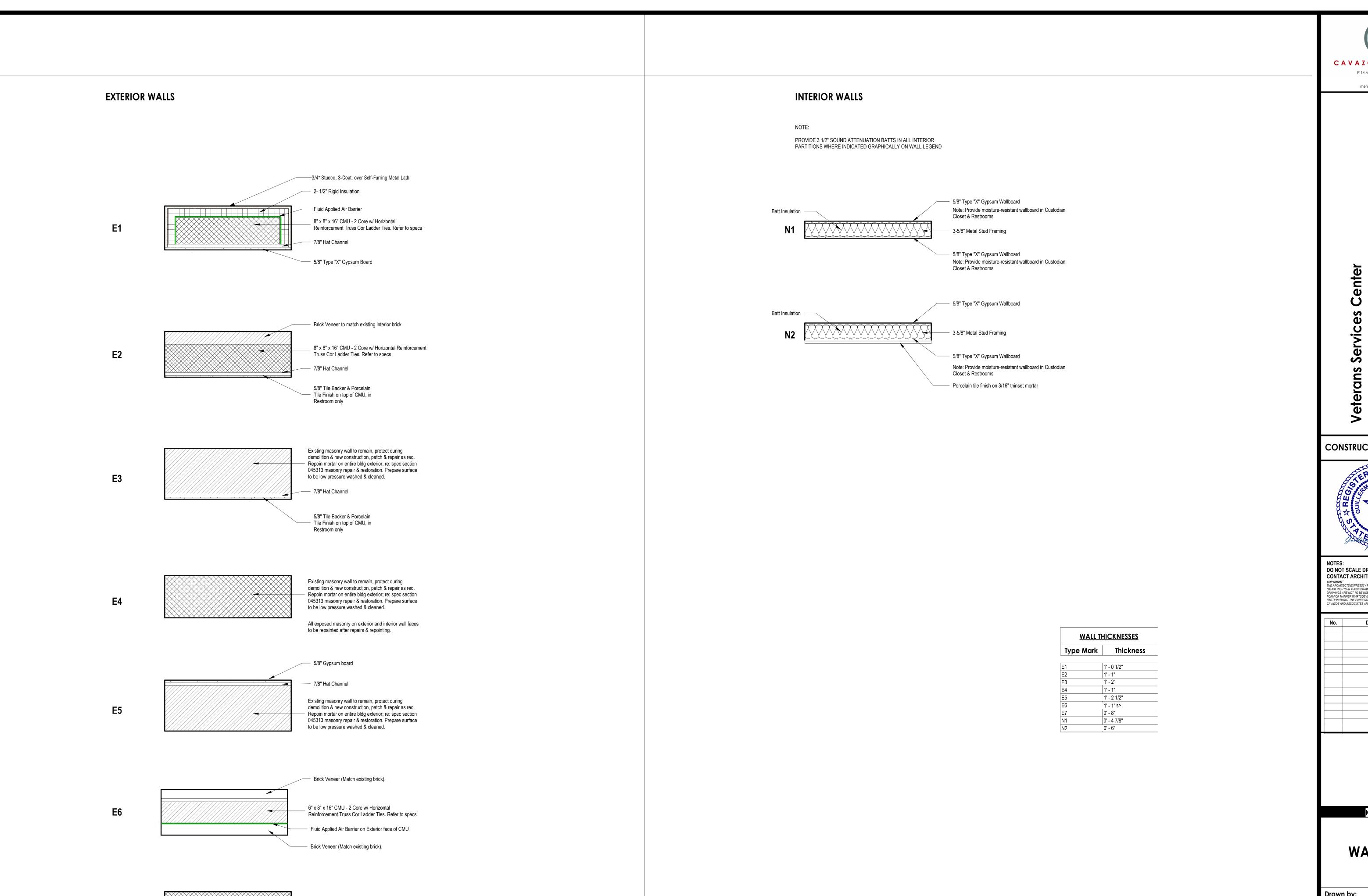
A-601

SIGNAGE MOUNTING HEIGHTS 1/2" = 1'-0"

SINGLE DOOR: SIGN SHALL BE MOUNTED NEXT TO DOOR ON

THE LATCH SIDE

As indicated



- 8" SCORED CMU

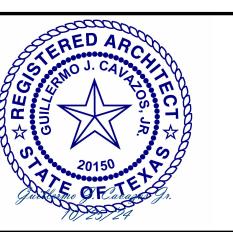
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No.	Description	Date

KEY PLAN

WALL TYPES

Drawn by:JJMRChecked by:GJC JRProject number:23-15Project Issue Date:10/25/24

A-610

1" = 1'-0"

DOOR SCHEDULE															
	DOOR FRAME														
Door					Thick							DETA	AILS	Fire	
No.	Туре	Description	Width	Height	ness	Material	Finish	Glazing	Construction	Gage	Finish	Head	Jamb	Rating	Type Comments
A101	G1	Single (Storefront)	3' - 0"	8' - 0"	2"	Extruded Aluminum	Arch. Class I (.7 mils min.) - Color by Architect	EG-2	Extruded Aluminum	Re: Storefront Schedule	Arch. Class I (.7 mils min.) - Color by Architect	021/A-620	3/A-620		
A104A	G2	Single (Storefront)	3' - 0"	8' - 0"	2"	Extruded Aluminum	Arch. Class I (.7 mils min.) - Color by Architect	IG-1	Extruded Aluminum	Re: Storefront Schedule	Arch. Class I (.7 mils min.) - Color by Architect	1/A-620	3/A-620		
A104B	E1	Single (Existing Door)													EXISTING WOOD DOOR TO REMAIN, TO BE PATCH & REPAIR AS REQ, AND PREPARE FOR NEW FINISH. DOOR OPERATIONAL HARDWAR TO BE REMOVED TO KEEP DOOR FIXED
A105	G2	Single (Storefront)	3' - 0"	8' - 0"	2"	Extruded Aluminum	Arch. Class I (.7 mils min.) - Color by Architect	IG-1	Extruded Aluminum	Re: Storefront Schedule	Arch. Class I (.7 mils min.) - Color by Architect	1/A-620	3/A-620		
A106A	W3	Double Door	4' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
106B	W3	Double Door	4' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
4107	E1	Single (Existing Door)													EXISTING WOOD DOOR TO REMAIN, TO BE PATCH & REPAIR AS REQ, AND PREPARE FOR NEW FINISH. DOOR OPERATIONAL HARDWAR TO BE REMOVED TO KEEP DOOR FIXED
A107	G1	Single (Storefront)	2' - 11 1/2"	8' - 0"	2"	Extruded Aluminum	Arch. Class I (.7 mils min.) - Color by Architect	EG-2	Extruded Aluminum	Re: Storefront Schedule	Arch. Class I (.7 mils min.) - Color by Architect	1/A-620	3/A-620		
\110	W1	Single Door	3' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
\111	W1	Single Door	3' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
112A	W1	Single Door	3' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
.112B	W4	Double Door	6' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
\113	W1	Single Door	3' - 0"	7' - 0"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	4/A-620	5/A-620		
A114	M1	Single Door	3' - 0"	7' - 0"	1 3/4"	Hollow Metal	Galvanized/Painted; Color By Architect		HM Welded/Seamless	14 Gage Galv.	Painted; Color By Architect	6/A-620	7/A-620		

STOREFRONT SCHEDULE							
Mark	Manufacturer	Model	Glazing Type	Type Comments			
	1	1					
S1	Kawneer	Trifab Versaglaze 451T	EG-2	Front-Glazing			
S2	Kawneer	Versaglaze 450	IG-1	Center-Glazing			
S3	Kawneer	Versaglaze 450	IG-1	Center-Glazing			
S4	Kawneer	Trifab Versaglaze 451T	EG-2	Front-Glazing			

Door Head - Interior - 4" Metal

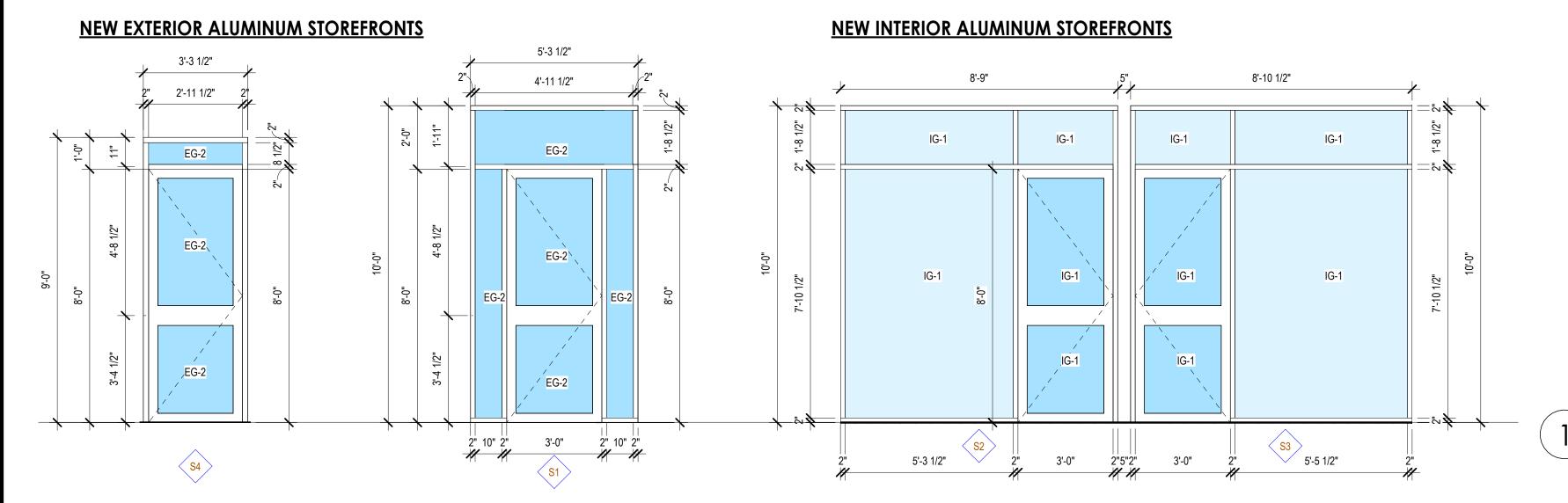
Stud Gyp

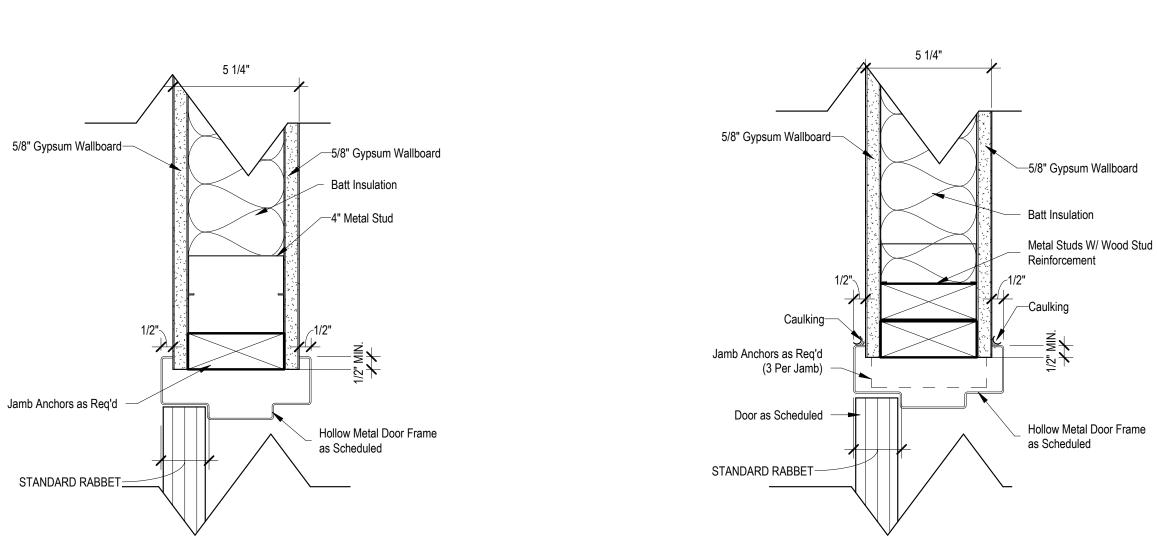
3" = 1'-0"

GLAZING SCHEDULE						
TYPE	DESCRIPTION					
EG-2	1" THICK DOUBLE PANEL LOW-E INSULATED GLASS, TINTED, TEMPERED; RE: GLAZING SPECS					
IG-1	1/4" CLEAR TEMPERED GLASS					

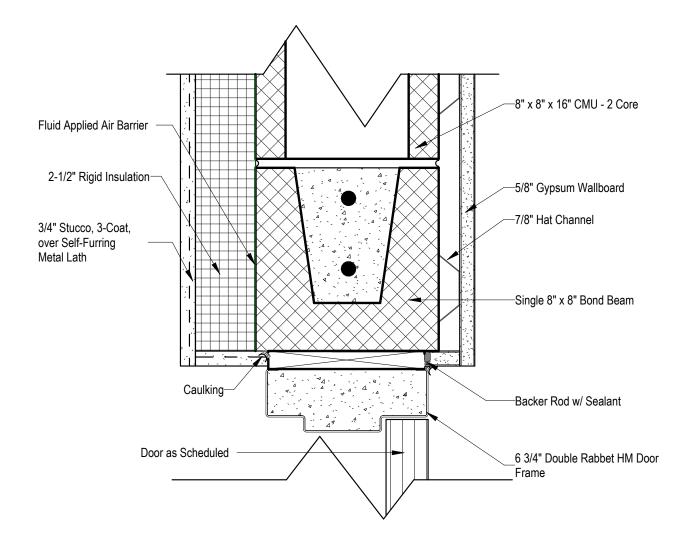
STOREFRONT NOTES:

- STOREFRONT ASSEMBLY BASIS OF DESIGN: KAWNEER TRIFAB VERSAGLAZE 451T OR ARCHITECT APPROVED EQUAL (RE: SPECS). COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER FULL
- REFER TO BUILDING FLOOR PLANS FOR LOCATION OF STOREFRONT ASSEMBLIES (DENOTED BY PREFIX S-). INTERIOR ELEVATIONS WILL CONTAIN FURTHER DIMENSIONAL INFORMATION.









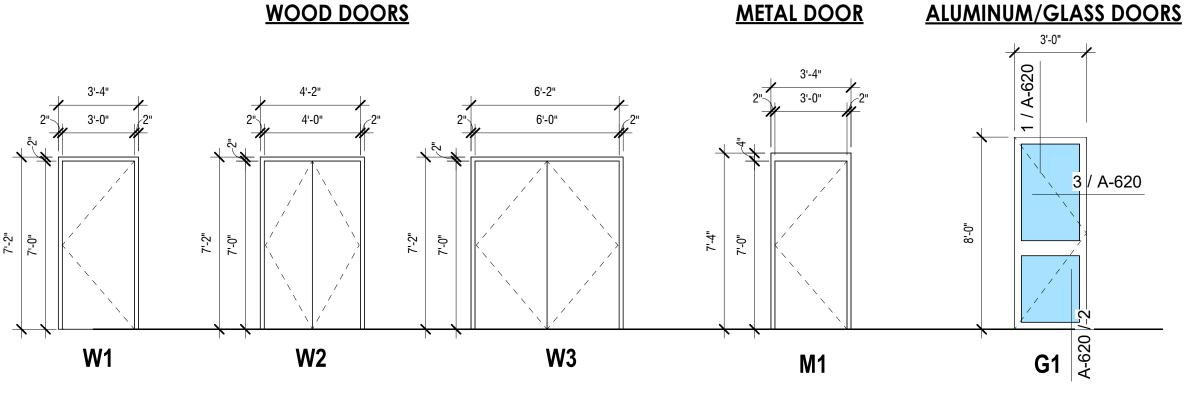


DOOR GENERAL NOTES

- 1. DOORS WITH SUFFIX "F" INDICATE FIRE-RATED DOOR. RE: DOOR SCHEDULE FOR FIRE
- RATINGS (i.e. 45 min, 90 min)
- RE: DOOR SCHEDULE FOR FURTHER INFORMATION ON EACH DOOR TYPE.
- GLAZING TYPES PER DOOR INDICATED ON DOOR SCHEDULE. RE: GLAZING SCHEDULE FOR
- GLAZING TYPES.
- GENERAL CONTRACTOR TO PROVIDE FULL SET OF SHOP DRAWINGS FOR ALL DOOR TYPES PRIOR TO FABRICATION.

5. RE: DOOR SCHEDULE AND SPECIFICATIONS FOR ALUMINUM DOOR MAKE AND MODEL

- BASIS OF DESIGN FOR ALUMINUM DOORS: KAWNEER 350 HEAVY WALL
- REFER TO DOOR SCHEDULE &
- GLAZING SCHEDULE FOR GLAZING INFORMATION





Re: Specs For Glazing Type

Curtain Wall Framing.

- Aluminum Framed

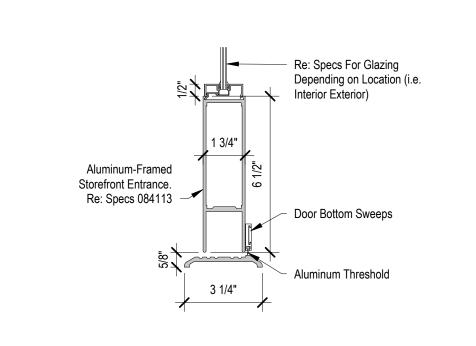
Storefront Entrance. Re: Specs

- Re: Specs For

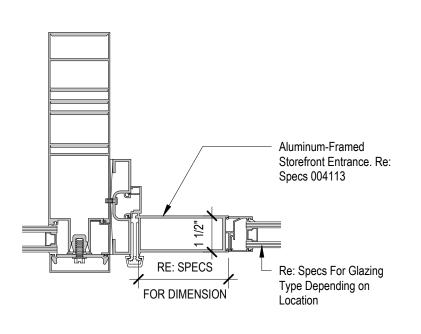
Glazing Type

Storefront Entrance - Head

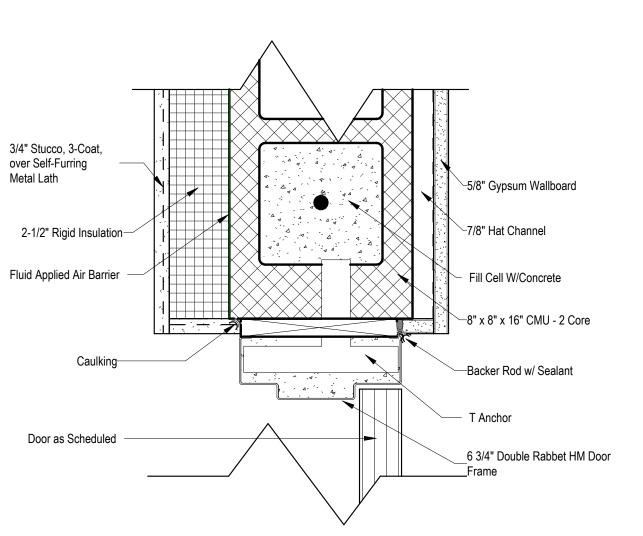
Re: Specs







Storefront Entrance - Jamb



Door Jamb - Exterior - 8" CMU w/ Stucco Finish 3" = 1'-0"

KEY PLAN DOOR SCHEDULES, **ELEVATIONS & DETAILS**

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Center

Veterans Services

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Description

Date

Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

A-620 Scale: As indicated

	WINDOW SCHEDULE														
Type Mark	Height	Width	Head Height	Sill Height	Frame Depth	Frame Thickness	Frame Material	Window Frame Finish	Glazing Type	Manufacturer	Model	Head	Jamb	Sill	Comments
W1	7' - 0"	2' - 9"	9' - 0"	2' - 0"	0' - 4 1/2"		Extruded Aluminum	Arch. Class I (.7 mils min.) Anodized	EG-2	Quaker Commercial	H450 Fixed Windows	6/R-301	4/R-301	5/R-301	
W2	9' - 0"	3' - 0"	9' - 0"	0' - 0"	0' - 4 1/2"		Extruded Aluminum	Arch. Class I (.7 mils min.) Anodized	EG-2	Quaker Commercial	H450 Fixed Windows	2/A-630	1/A-630	3/A-630	

GLAZING SCHEDULE							
TYPE	DESCRIPTION						
EG-2	1" THICK DOUBLE PANEL LOW-E INSULATED GLASS,						

1/4" CLEAR TEMPERED GLASS

TINTED, TEMPERED; RE: GLAZING SPECS

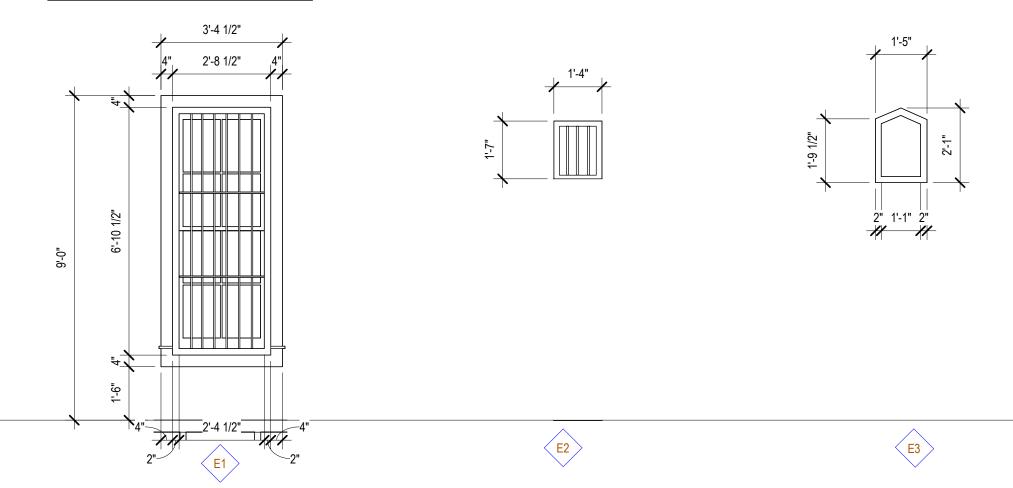
WINDOW NOTES:

ALUMINUM WINDOW BASIS OF DESIGN: QUAKER FIXED WINDOWS: H450 DS SERIES OR ARCHITECT APPROVED EQUAL (RE: SPECS). COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER FULL RANGE. PROVIDE LEVOLOR FAUX WOOD BLINDS, OR AN ARCHITECT-APPROVED EQUAL, AT ALL WINDOWS & STOREFRONTS. COLOR TO BE SELECTED

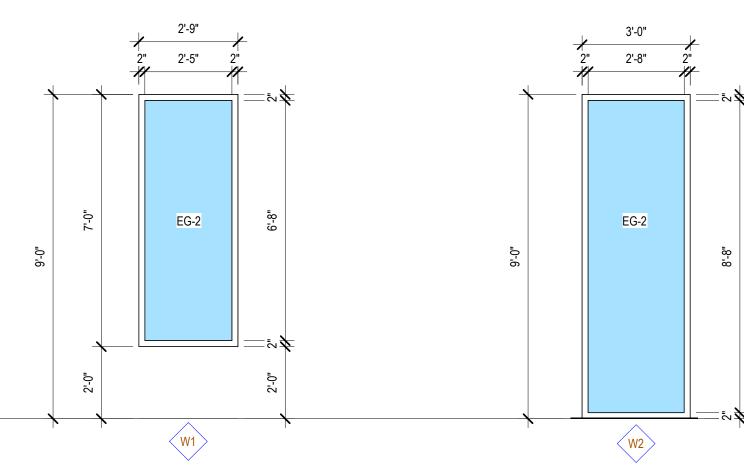
BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.

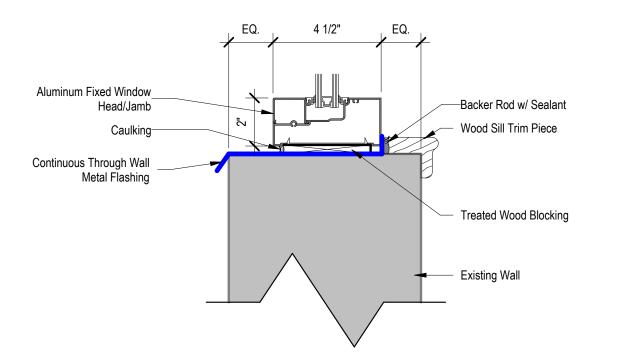
- **EXISTING WOOD WINDOW NOTE:**
- REPAIR ALL WOOD-FRAMED WINDOWS AND DOORS IN ACCORDANCE WITH HISTORIC REPAIR PROCEDURES. THIS INCLUDES SCRAPING LOOSE PAINT, FILLING SMALL AREAS OF DAMAGE, REPLACING PIECES THAT ARE SEVERELY DAMAGED, REMOVING AND REPLACING BROKEN GLASS LITES, AND CUTTING OUT AND REPLACING DEGRADED GLAZING PUTTY, THEN PRIMING AND PAINTING. PAINT ALL EXISTING WROUGHT IRON BURGLAR BARS TBD. RE: SPEC SECTION 08 59 00. PATCH & REPAIRED ALL DAMAGED HEAD, JAMB & SILL AS REQ.

EXISTING WOOD WINDOWS

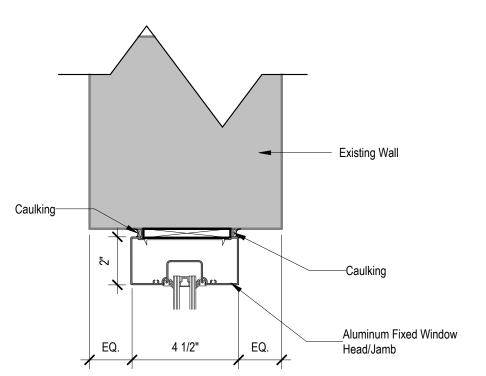


NEW ALUMINUM WINDOWS

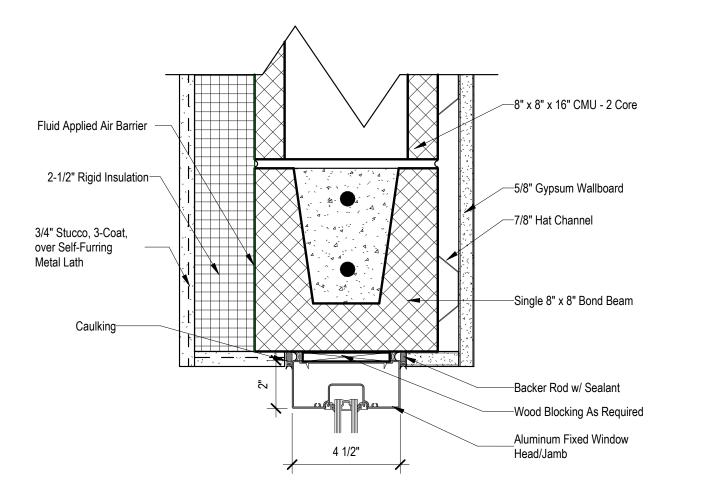




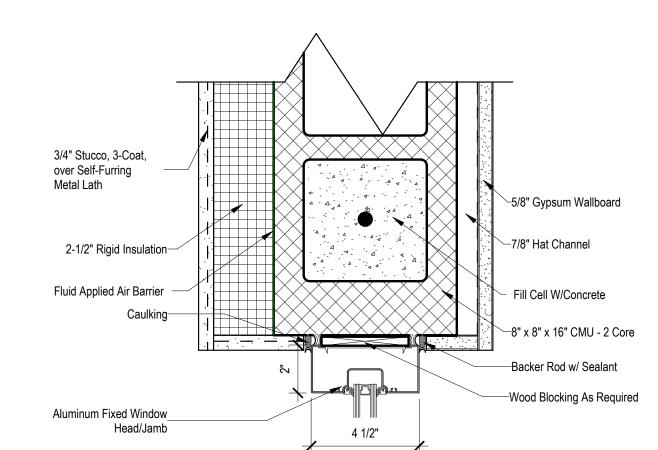




Window Head/Jamb - Exterior -**Existing Wall**



Window Head - Exterior - 8" CMU

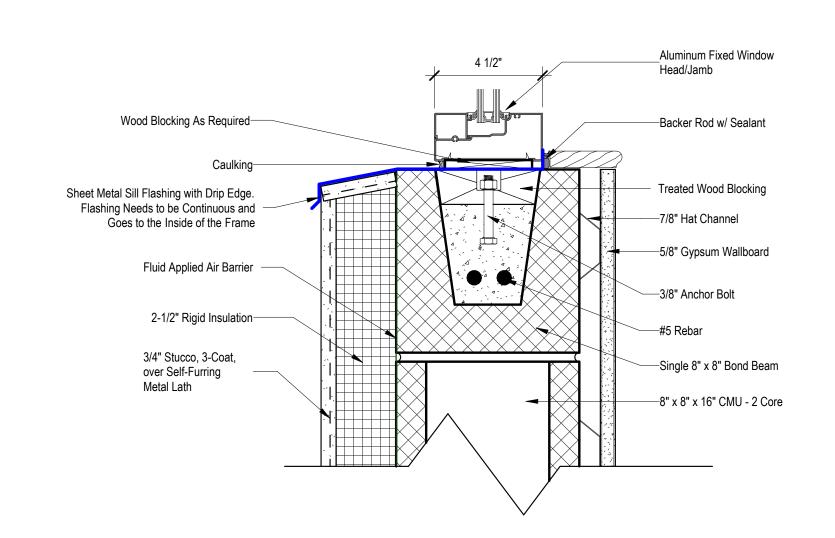


Window Jamb - Exterior - 8" CMU w/ Stucco Finish 3" = 1'-0"

Project number: Project Issue Date:

Checked by:

A-630 Scale: As indicated



Window Sill - Exterior - 8" CMU w/ 3 Stucco Finish
3" = 1'-0"

2 w/ Stucco Finish
3" = 1'-0"

KEY PLAN WINDOWS

SCHEDULES, **ELEVATIONS & DETAILS** Drawn by:

CAVAZOSARCHITECTS

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780,

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Description

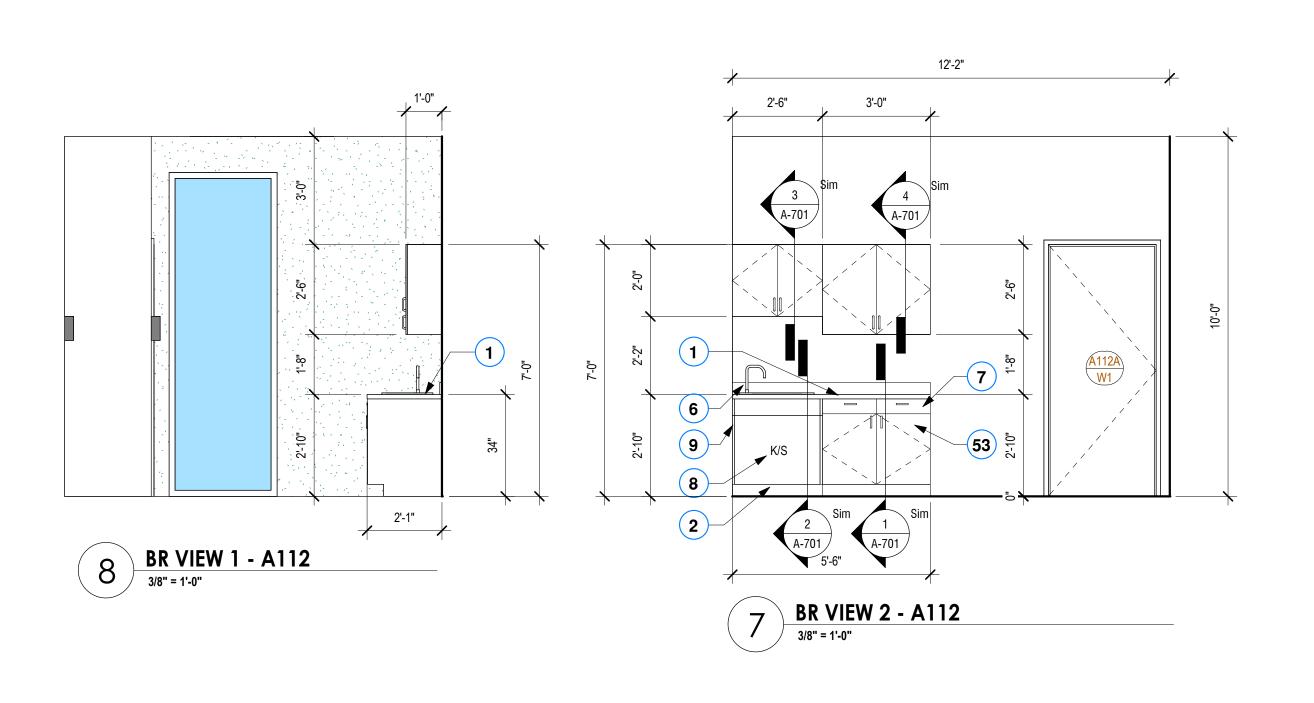
Date

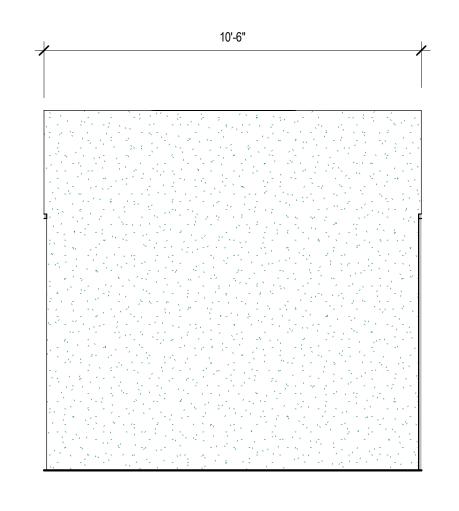
Veterans Services

10/25/24

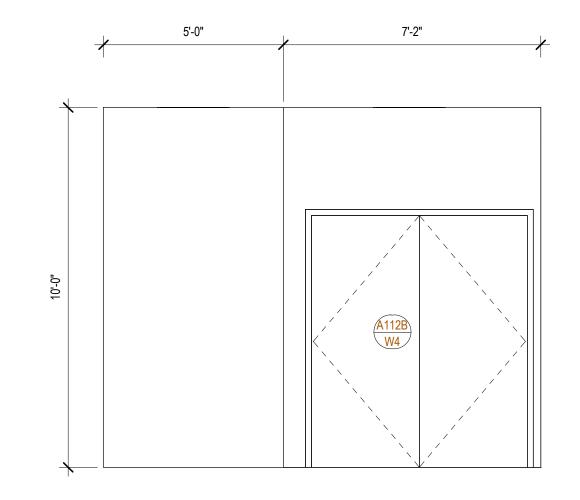
GJC JR

23-15

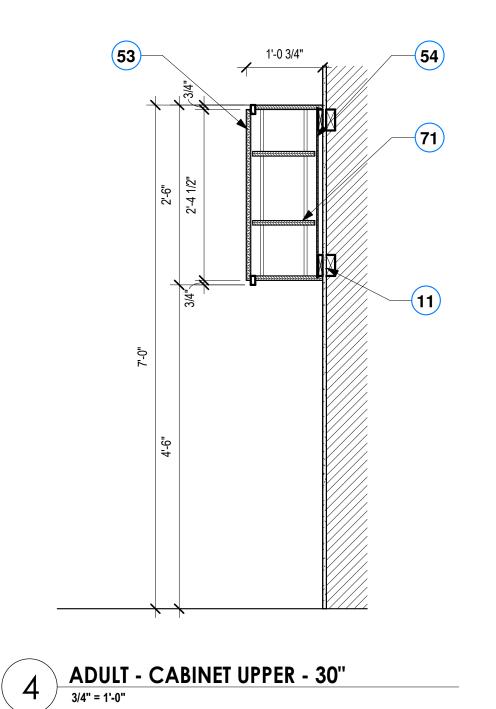


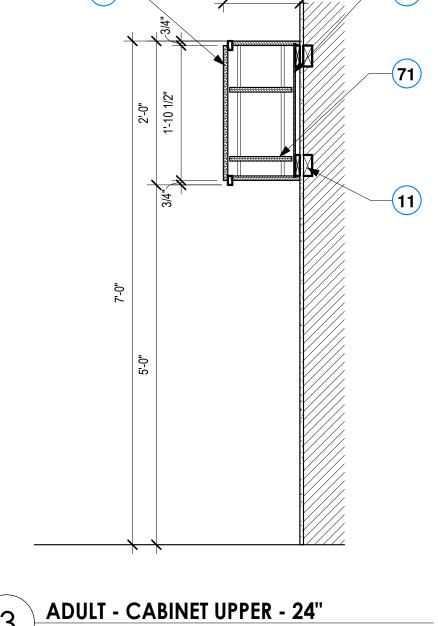




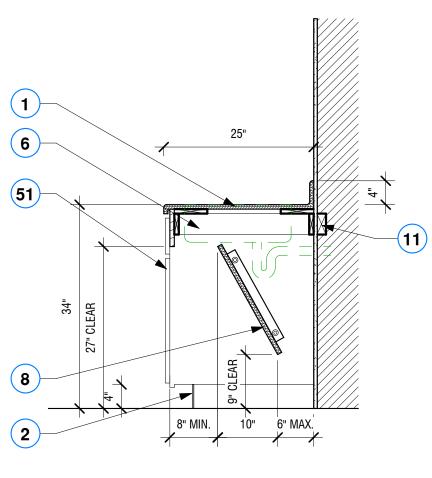


BR VIEW 4 - A112
3/8" = 1'-0"

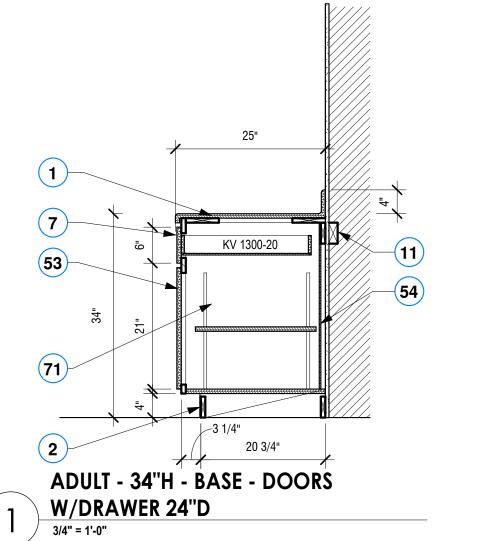




3/4" = 1'-0"







<u>KEYNOTE LEGEND - MILLWORK</u>

Description Number

1	PLASTIC LAMINATE PREFORMED TOP W/SPLASH-RETURN
2	4" HIGH BASE - MATCH BASE IN ROOM
6	6" DEEP SINK; PLYWOOD SUBTOPS REQ'D AT SINK AREAS
7	PLASTIC LAMINATE-CLAD DRAWER FACE
8	PLASTIC LAMINATE-CLAD REMOVABLE ACCESS PANEL
9	PLASTIC LAMINATE-CLAD SUPPORTS
10	NAILER
11	PROVIDE BLOCKING AS REQ'D
51	CABINET BEYOND
53	3/4" PLASTIC LAMINATE-CLAD CABINET DOOR
54	1/4" PLYWOOD BACKING
71	3/4" PLYWOOD SHELVES W/KV 255 & 256 STANDARDS & RECESSED BRACKETS

MILLWORK NOTES

- PROVIDE PLASTIC LAMINATE AT ALL EXPOSED EDGES OF CABINETS, DRAWERS,
- SUPPORTS, AND EDGES.
- REFER TO SPECS FOR MATERIALS REQUIRED AT ALL CABINET COMPONENTS (I.E., SUB-TOPS, FRONTS, SHELVES,ETC.).
 ALL SHELVING TO BE GRADE A/C 3/4" PLYWOOD SHELVING, PLASTIC LAMINATE ON ALL EXPOSED EDGES, WITH 1/4" HARDBOARD BACKING VERTICALS TO BE EITHER 1 3/4" WITH EDGING PLYWOOD OR 2 3/4" PLYWOOD SHEETS, BACK TO BACK WITH A
- ARE BACK TO BACK ON ONE PLYWOOD SHEET TO BE ALTERNATELY LAPPED BY 1": SHELF STANDARDS ARE KV 255 & 256 ALL FIXED SHELVES SHALL BE A/C3/4" PLYWOOD WITH HARDWOOD EDGES, PLAM CLAD, WITH ALL HORIZONTAL AND VERTICAL SURFACES MEETING IN CLEAN WELL CRAFTED DADO JOINTS. GLUE AND/OR INVISIBLE TOE NAIL AT ALL SPLICES. RE:

1"x2" TRIM DEPENDING ON THE CONSTRUCTION METHOD PROPOSED. ALL

ADJUSTABLE SHELVING STANDARDS SHALL BE RECESSED WITH STANDARDS THAT

- AT THE TOE SPACE OF ALL BASE CABINET UNITS, AS WELL AS FULL HEIGHT SHELVING UNITS. PROVIDE A FULL 4" TO ALLOW A 4" VINYL (RUBBER) BASE TO BE APPLIED. (A CONTINUOUS 1/2" PLYWOOD STRIP IN ADDITION TO THE 3 1/2" OF THE
- 2"x4" SHOULD SUFFICE).

 REFER TO MILLWORK SPECS FOR DETAILED SPECIFICATIONS.
 G.C. TO PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL.

CABINET HARDWARE (FINISH)

CATCHES: MAGNETIC TYPE STANLEY SP46 US28 FINISH, 1 PER DOOR.

HINGES: 2 PER 3'-0" HGT. OF OPENING STANLEY 1592-1.
PULLS: HEAVY DUTY TYPE STANLEY #4484 US28 FINISH, 1 PER DOOR OR DRAWER.



LAREDO, TX 78045 P: (956) 724-8123 memo@cavazosarch.com

Center 78040 \succeq Veterans Services

Laredo College Sheridan Rd, Laredo, T

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о.	Description	Date

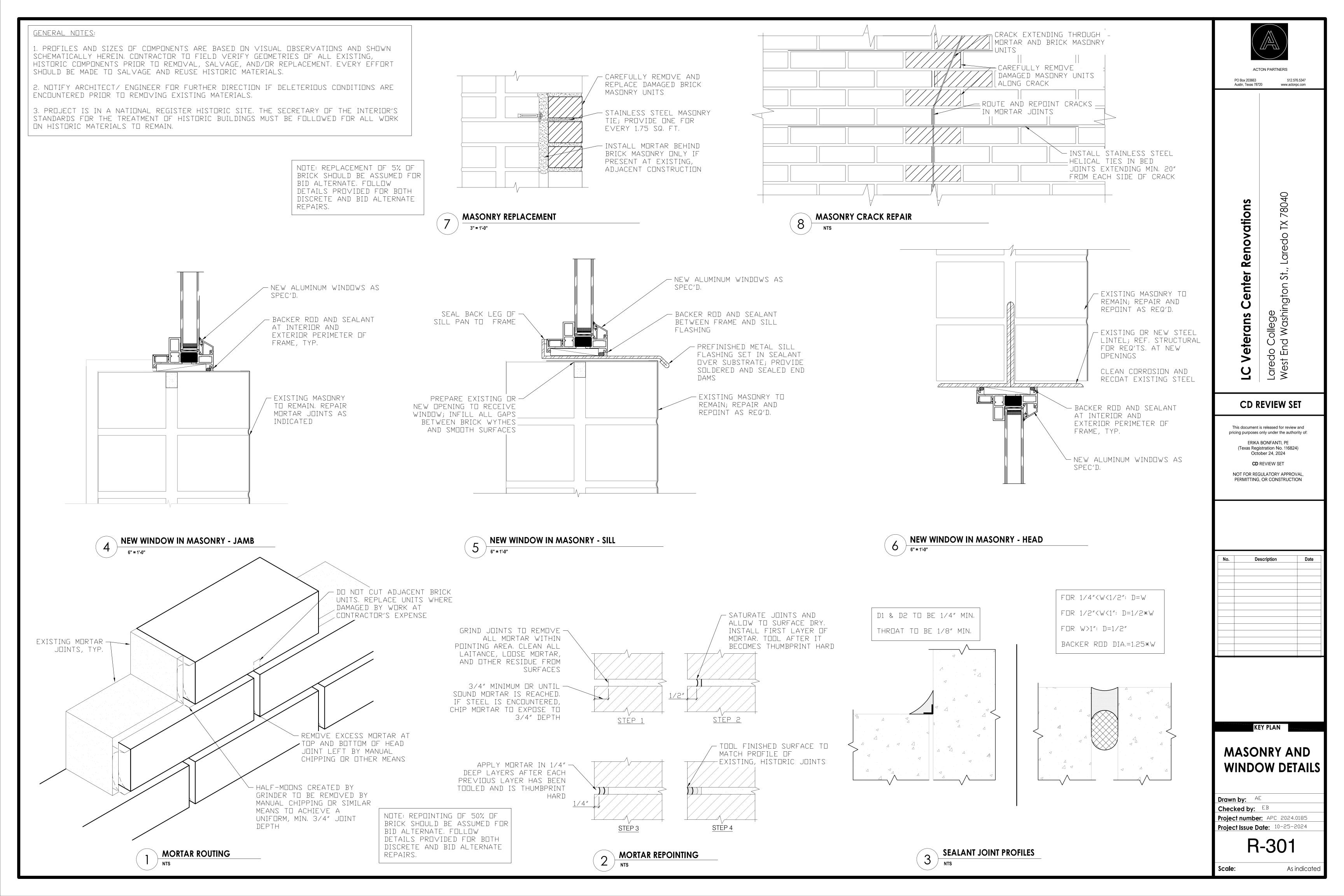
KEY PLAN

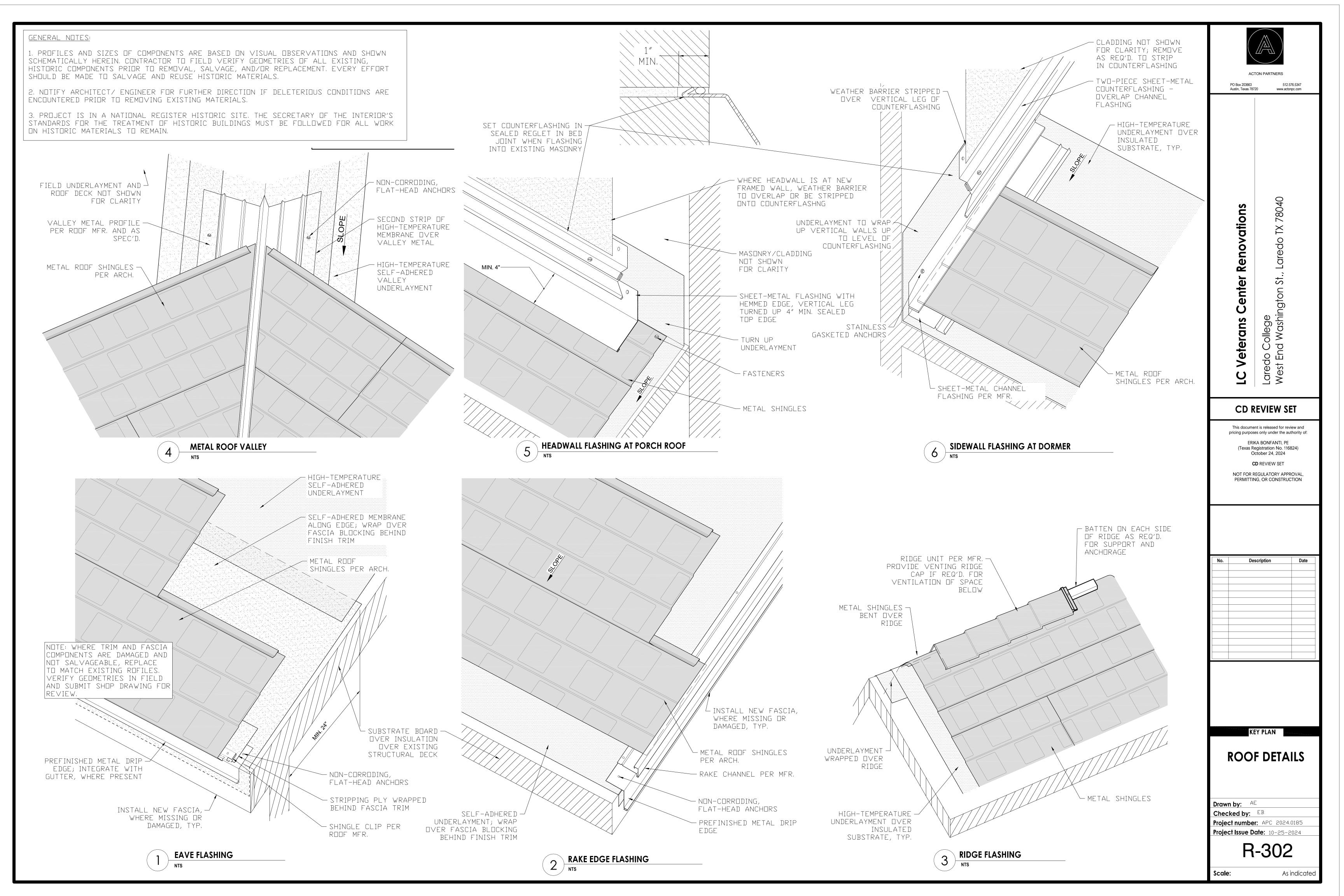
MILLWORK ELEVS & DETAILS

Drawn by: GJC JR Checked by: 23-15 Project number: 10/25/24 Project Issue Date:

A-701

Scale: As indicated



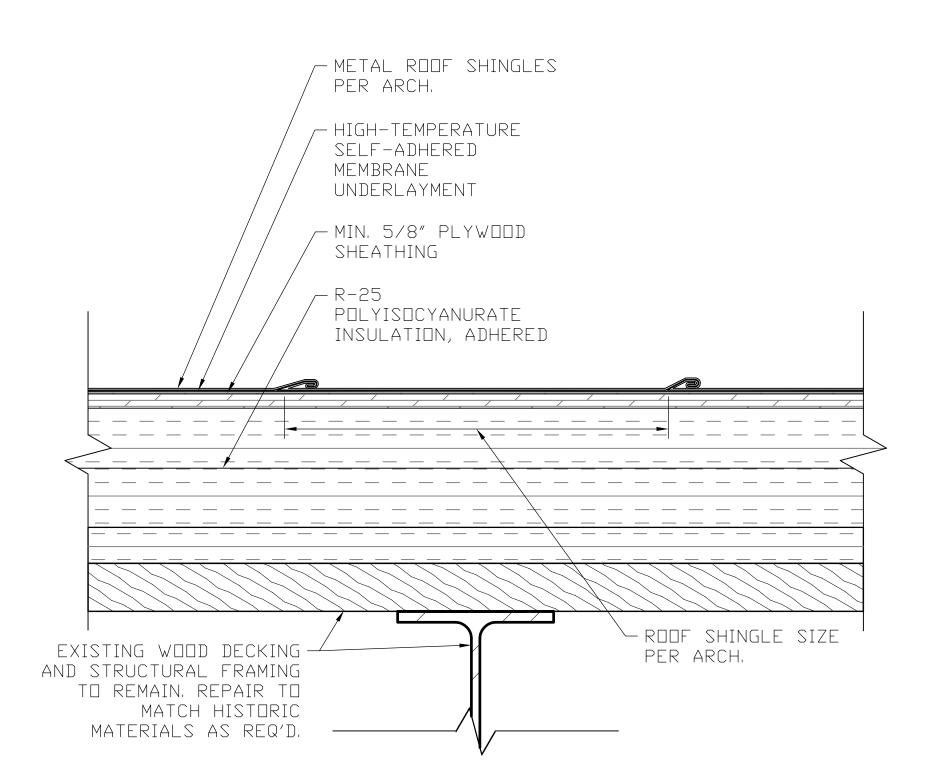


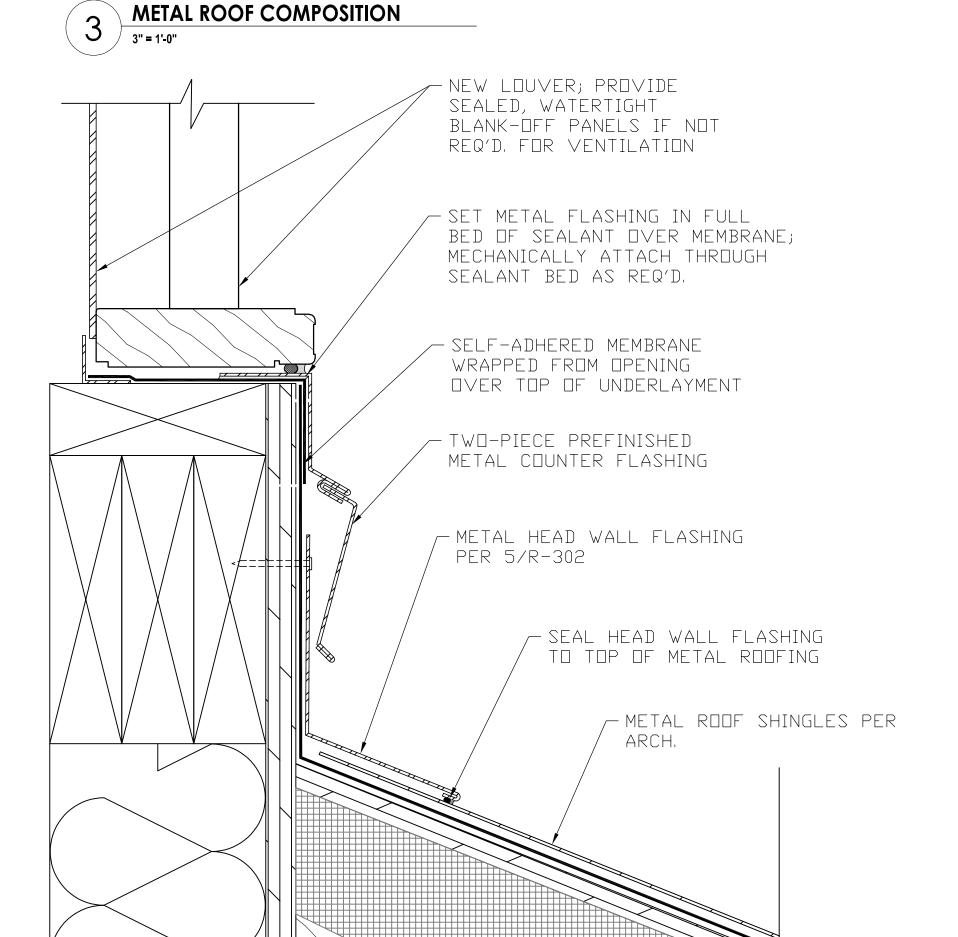
GENERAL NOTES:

1. PROFILES AND SIZES OF COMPONENTS ARE BASED ON VISUAL OBSERVATIONS AND SHOWN SCHEMATICALLY HEREIN. CONTRACTOR TO FIELD VERIFY GEOMETRIES OF ALL EXISTING, HISTORIC COMPONENTS PRIOR TO REMOVAL, SALVAGE, AND/OR REPLACEMENT. EVERY EFFORT SHOULD BE MADE TO SALVAGE AND REUSE HISTORIC MATERIALS.

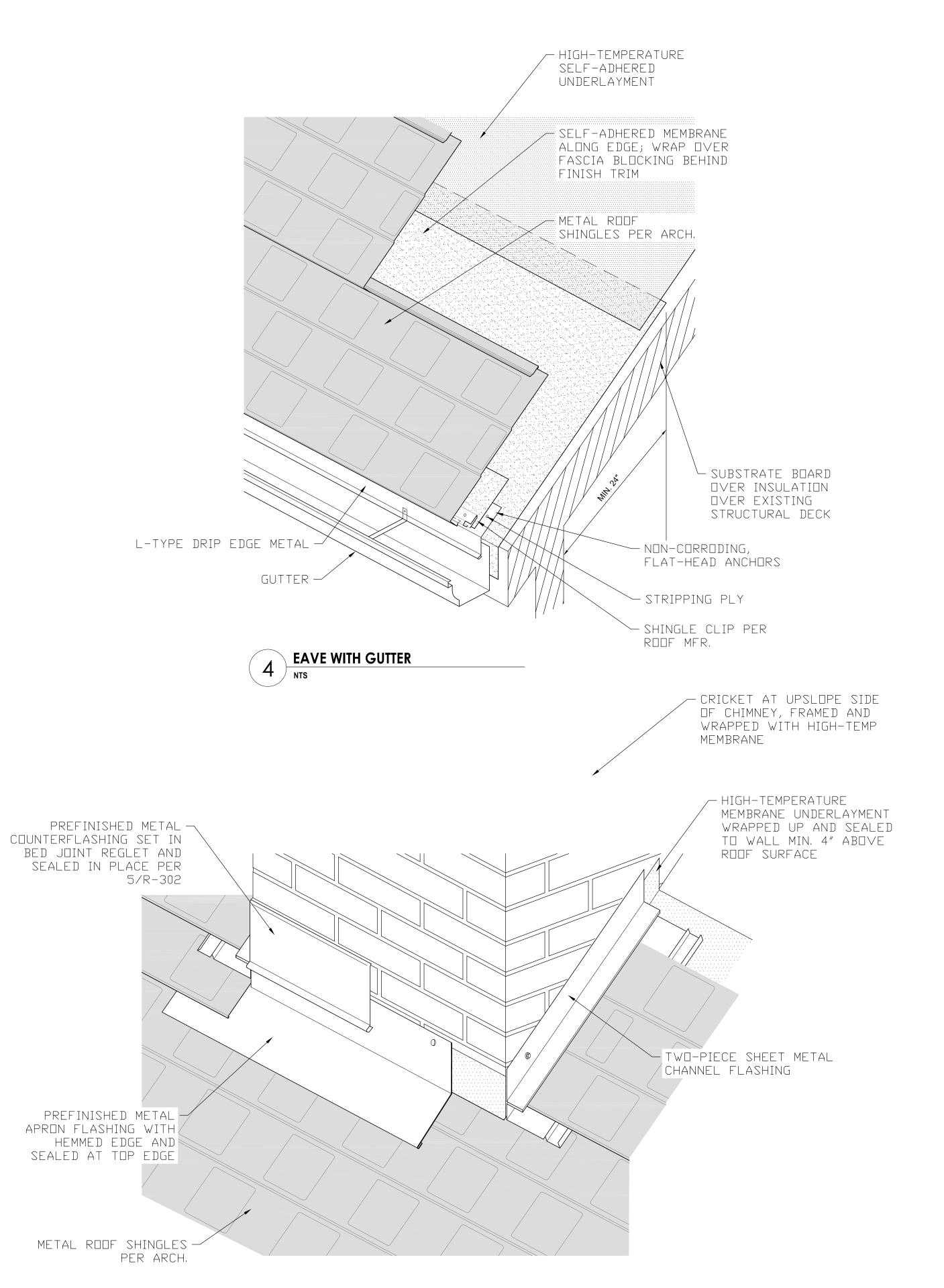
2. NOTIFY ARCHITECT/ ENGINEER FOR FURTHER DIRECTION IF DELETERIOUS CONDITIONS ARE ENCOUNTERED PRIOR TO REMOVING EXISTING MATERIALS.

3. PROJECT IS IN A NATIONAL REGISTER HISTORIC SITE. THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC BUILDINGS MUST BE FOLLOWED FOR ALL WORK ON HISTORIC MATERIALS TO REMAIN.





FLASHING AT DORMER W/ FAUX LOUVER



APRON FLASHING AT CHIMNEY

(2) APR



ACTON PARTNERS

PO Box 203663 Austin, Texas 78720 512.576.5347 www.actonpc.com

college Washington (Veterans

Laredo Ca West End <u>U</u>

CD REVIEW SET

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This document is released for review and pricing purposes only under the authority of: ERIKA BONFANTI, PE (Texas Registration No. 116824) October 24, 2024 **CD** REVIEW SET

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

Description

KEY PLAN

ROOF DETAILS

Drawn by: AE

Checked by: EB Project number: APC 2024,0185

R-303

Scale:

As indicated

Project Issue Date: 10-25-2024

L. SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) BY A SPECIAL INSPECTOR HIRED BY THE OWNER TO PERFORM THE SPECIAL INSPECTIONS LISTED BELOW. THE SPECIAL INSPECTOR SHALL BE QUALIFIED BY AN APPROVED AGENCY ACCORDING TO THE CITY'S BUILDING OFFICIAL TO PERFORM THE SPECIAL INSPECTIONS FOR WHICH THEY WILL BE UNDERTAKING. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE SPECIAL INSPECTOR OF ALL TESTS. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE TO VERIFY THAT THE ITEMS DETAILED IN THE CONSTRUCTION DOCUMENTS WERE BUILT ACCORDINGLY AND SHALL PREPARE, SIGN, AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ARCHITECT FOR ALL TIME SPENT AT THE SITE. THE INSPECTOR SHALL BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE ARCHITECT PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THESE SPECIAL INSPECTIONS ARE IN ADDITION TO THE OTHER INSPECTIONS LISTED IN THESE STRUCTURAL NOTES OR PROJECT SPECIFICATIONS . WHERE STRUCTURAL LOAD—BEARING MEMBERS AND ASSEMBLIES ARE SHOP FABRICATED, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT

PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS, UNLESS THE FABRICATOR IS REGISTERED AND

APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

TABLE 1705.2.3						
REQUIRED SI						
OPEN-WEB STEEI	7 101212 E	MD 1012	1 GIRDERS			
TYPF	INSPECTION I	FREQUENCY	REFERENCE STANDARD			
	CONTINUOUS	PERIODIC	NEI ENENGE STANDARD			
1. INSTALLATION OF OPEN-WEB STEEL JOISTS	AND JOIST O	SIRDERS				
A. END CONNECTIONS— WELDING OR BOLTED		Х	SJI SPECIFICATIONS LISTED IN SECTION 2207.1			
B. BRIDGING— HORIZONTAL OR DIAGONAL						
1. STANDAR BRIDGING		X				
 BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SECTION 2207.1 		X				

r	ΓABLE 170	05.3		
REQUIRED SPECIAL INSPECTION	S AND TE	STS OF C	ONCRETE CONSTRU	JCTION
VERIFICATION AND INSPECTION	INSPECTION CONTINUOUS		REFERENCED STANDARD	IBC REFERENCE
I. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		Х	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
REINFORCING BAR WELDING: VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706; INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND INSPECT ALL OTHER WELDS.	x	x x	AWS D1.4 ACI 318: 26.6.4	
3. INSPECT ANCHORS CAST IN CONCRETE		Х	ACI 318: 17.8.2	
4. INSPECT ANCHORS POST—INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	×		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		Х	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.		Х	ACI 318: Ch 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х		ACI 318: 26.5	1908.6. 1908.7, 1908.8
 VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. 		Х	ACI 318: 26.5.3-26.5.5	1908.9
INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING	X X		ACI 318: 26.10	
TENDONS. 10. INSPECT ERECTION OF PRECAST CONCRETE		Х	ACI 318: 26.9	
MEMBERS. 11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X	ACI 318: 26.11.2	
12.INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1.2(b)	

Г	TABLE 1705.6		
	REQUIRED SPECIAL INSPECTION AND TESTS OF S	OILS	
	TVOE	INSPECTION F	REQUENCY
	TYPE	CONTINUOUS	PERIODIC
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		Х
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		Х
3.	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		Х
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	×	
Б.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х

	TABLE 1705.7		
	REQUIRED SPECIAL INSPECTION AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS		
		INSPECTION I	FREQUENCY
	TYPE	CONTINUOUS	PERIODIC
١.	VERIFY ELEMENT MATERIALS, SIZES AND LENGTH COMPLY WITH REQUIREMENTS.	X	
2.	DETERMINE CAPACITIES OF TESTS ELEMENTS AND CONDUCT ADDITIONAL LOAD TEST, AS REQUIRED.	×	
3.	INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	Х	
4.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	×	
5.	FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.		-
6.	FOR CONCRETE ELEMENTS AND CONCRETE—FILLED ELEMENTS, PERFORM TEST AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.		
7.	FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.		
	TABLE 1705.8		
	REQUIRED SPECIAL INSPECTION AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMEN	VTS	
		INSPECTION I	FREQUENCY
	TYPE	CONTINUOUS	PERIODIC
۱.	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	×	
2.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END—BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	×	
_			

FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.

25SPECIAL PROVISIONS FOR WOOD STUD SHEAR WALLS WITH PLYWOOD

A. SILL PLATE SHALL BE 3 X 6 P.T. D.F B. ALL STUDS AND BLOCKING AT PANEL EDGES SHALL BE 4 X 6. C. ALL OTHER INTERMEDIATE STUDS SHALL BE 3 X 6 @ 16" D. END POSTS (OR COLUMNS) SHALL BE AS SPECIFIED ON THE BOTH VERTICAL AND HORIZONTAL INTERIOR PANEL JOINTS ON OPPOSITE SIDES OF THE WALL SHALL BE STAGGERED.
THE PLYWOOD ON ONE SIDE MUST BE NAILED BEFORE THE FRAME INSPECTION. THE PLYWOOD ON THE OTHER SIDE MUST BE INSTALLED AND INSPECTED PRIOR TO INSTALLATION OF WALL

G. NO PENETRATIONS OR NOTCHES ARE PERMITTED OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS.

26PROVIDE DOUBLE STUD TO SUPPORT ALL BEAMS UNLESS POSTS ARE 27DOUBLE BLOCK UNDER ALL POSTS. 28DOUBLE JOIST UNDER ALL PARALLEL PARTITIONS UNLESS OTHERWISE

29.TOP PLATES OF ALL WOOD STUD WALLS SHALL BE 2-2X (SAME WIDTH AS STUDS), LAP 48" (MIN.), WITH AT LEAST 16-16d NAILS AT EACH SIDE OF LAP AND NOT MORE THAN 12" BETWEEN.

2x TOP PLATES ON CURVED STUD WALLS TO BE 8'-0" LONG PIECES (MIN.), CUT FROM 2x DEPTH AS REQUIRED BASED ON

30CUTTING, NOTCHING, OR DRILLING OF BEAMS OR JOISTS SHALL B PERMITTÉD ONLY AS DETAILED OR APPROVED BY THE ENGINEER AND/OR 31.MOISTURE CONTENT OF WOOD AT TIME OF PLACEMENT SHALL NOT

J. SUBMITTALS

 SHOP DRAWINGS

 A. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP

 DRAWING FOR THE FOLLOWING ITEMS: CONCRETE MIX DESIGNS REINFORCING STEEL

STRUCTURAL STEEL . MISCELLANEOUS STEEL . STEEL DECK GUARD RAILS AND HAND RAILS (*) STEEL STAIRS (*)
TILT WALL (LIFTING/BRACING/ERECTION) (*,#)

O.LIGHT-GAGE STEEL (*,#)
1. CONCRETE MASONRY PRODUCT DATA 12.CURTAIN WALL (*,#)
13.ALUMINUM CANOPIES (*,#) 14.FORM WORK (*,#)

6.FIRE SPRINKLER SYSTEM (#)

ITEMS MARKED (*) SHALL HAVE SHOP DRAWING SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL HAVE ENGINEER'S SHOP DRAWING STAMP.

B. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL. THE OMISSION FROM THE SHOP DRAWING OF ANY MATERIAL REQUIERES BY THE CONTRACTOR DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

2. MANUFACTURER'S LITERATURE A. SUBMIT MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

3. REPRODUCTION A. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OF MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERROR THAT MAY

K. SITE OBSERVATION BY STRUCTURAL ENGINEER

A. THE CONTRACTOR STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOF ALL CONSTRUCTION MEANS, METHODS, AND PROCEDURES, TECHNIQUES, AND

THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR SUBCONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORKS, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES ARE SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

H. PREFABRICATED WOOD TRUSSES

 STRUCTURAL DESIGN, DIMENSIONS, TRUSS CONFIGURATION AND QUANTITY IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. VERIFY PLAN DIMENSIONS, ROOF PITCHES AND CEILING PROFILES WITH ARCHITECTURAL PLANS. 2. ROOF TRUSS PROFILES ARE SHOWN FOR FRAMING INTENT TO TRANSFER TRUSS LOADS TO BEARING POINTS ONLY.

3. TRUSSES TO BE DESIGNED FOR THE FOLLOWING LOADS:

20 PSF (REDUCIBLE) DEAD LOAD- TOP CHORD BOTTOM CHORD

4. DESIGN OF PLATE CONNECTED TRUSSES SHALL CONFORM TO THE LATEST EDITIONS OF NATIONAL DESIGN STANDARDS (NDS), TRUSS PLATE INSTITUTE CRITERIA (TPI), AND INTERNATIONAL BUILDING CODE 2018. STEEL GUSSET PLATES SHALL BE A MINIMUM 20 GAGE, ASTM-A-446 GRADE A, APPROVED BY ICBO.

MAXIMUM MOISTURE CONTENT AT TIME OF FRABRICATION SHALL BE 19% MAX.

TRUSS DESIGN AND LAYOUT SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSE IN THE STATE OF TEXAS AND SUBMITTED TO ARCHITECT/ENGINEER FOR

REVIEW PRIOR TO FABRICATION.
TRUSS FABRICATION SHALL COMPLY WITH TPI QUALITY CONTROL STANDARDS (QCM-LATEST EDITION). TRUSS PLANT SHALL BE INSPECTED BY THIRD PARTY CERTIFIED

8. THE TRUSSES SHALL BE ERECTED, BRACED AND BLOCKED IN ACCORDANCE WITH COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES (HIB-91) BY TPI.

9. ALL TRUSSES, UNLESS NOTED OTHERWISE, SHALL BE CONNECTED TO BEARING PLATE

WITH SIMPSON H1 OR H2.5A TIES OR REVIEWED EQUIVALENT.

10.UNLESS NOTED OTHERWISE, ATTACH TOP OF NON-BEARING WALLS TO TRUSS BOTTOM CHORD WITH SIMPSON STC CLIPS OR REVIEWED EQUIVALENT.

11.IF TRUSS—BEARING CONDITIONS VARY FROM THOSE INDICATED ON PLANS, NOTIFY ARCHITEC/ENGINEER PRIOR TO CONSTRUCTION OF FOUNDATION SO REVISIONS TO THE FOUNDATIÓN CAN BE MADE. 12.ROOF TRUSS BRACING: PROVIDE PERMANENT 2x4 LATERAL "X" BRACING IN THE

PLANE OF THE WEBS AND FRAME AT A 45 DEG. ANGLE. ALL CONNECTIONS SHALL BE MADE WITH A MINUMUM OF (2) 16d NAILS. THE "X" BRACING SHALL BE ALIGN WITH THE BOTTOM CHORD LATERAL BRACING AND OCCUR AT EACH END OF THE BUILDING 13.FLOOR TRUSS BRACING: PROVIDE 2x4 CONTINUOUS STRONGBACK AND "X" BRACING

I.WOOD NOTES

AS REQUIRED BY TRUSS DESIGN

1. SAWN WOOD MEMBERS SHALL BE SOUTHERN PINE, S4S, AND SHALL BE GRADE MARKED BY A RECOGNIZED GRADING AGENCY, REFER TO PROJECT BOOK SPECIFICATIONS DIVISION 6 FOR MORE INFORMATION.

2. WOOD GRADES, U.N.O., SHALL BE AS FOLLOWS WALLS 2X4 (8'-0")
WALLS 2X4 (8'-1" TO 14'-0") CONSTRUCTION STRUCTURAL JOISTS & RAFTERS BEAMS AND STRINGERS POSTS AND TIMBERS

3. ALL SILLS OR PLATES BEARING ON CONCRETE SHALL BE PRESSURE TREATED SOUTHERN PINE (P.T.D.F.).
4. ALL SILLS OR PLATES BEARING ON CONCRETE SHALL HAVE ANCHOR A. PLACED 9 INCHES FROM EACH END (OR FROM A NOTCH)

B. SPACED AS SHOWN ON THE DRAWINGS (BETWEEN BOLTS' NOTED PRODUCT STANDARD PS1-83, APA PERFORMANCE STANDARDS, AND UBC STANDARD 25-9, AND SHALL BE OF THE FOLLOWING GRADES AND

PANEL IDENTIFICATION INDEXES (U.N.O. ON DRAWING):

ROOF SHEATHING STRUCTURAL 1 24/16

SHEAR PANELS STRUCTURAL 1 24/0

6. GLUED LAMINATED TIMBERS SHALL BE FABRICATED IN

ACCORDANCE WITH ANSI/AITC A190.1—1983 "STRUCTURAL

GLUED LAMINATED TIMBER". USING SOUTHERN PINE PANEL

GRADE IDENTIFICATION INDEX I INDUSTRIAL APPEARANCE

(U.N.O. PER PLAN AS ARCHITECTURAL GRADE) GRADE WOOD

AND EXTERIOR GLUE WITH INTENDED DRY USE CONDITION PER

SECT. 2511(c), UBC, COMBINATIONS AND USE SHALL BE AS

FOLLOWS:

COMBINATION No. USE TYPICAL 7. GLUED LAMINATED TIMBERS SHALL BE MARKED WITH A QUALITY MARK AND IN ADDITION, A CERTIFICATE OF CONFORMANCE SHALL BE PROVIDED TO INDICATE CONFORMANCE WITH ANSI/AITC A190.1-1983, STRUCTURAL GLUED LAMINATED TIMBER"

8. LAMINATED VENNER LUMBER: USE LOUSIANA PACIFIC GANG-LAM S LAMINATED VENEER LUMBER (LVL) 2950 Fb-2.0E SOUTHERN PINE

9. FRAMING ANCHORS, POST CAPS, COLUMN BASES, AND OTHER CONNECTORS SPECIFIED ON DRAWINGS SHALL BE AS MANUFACTURED "SIMPSON COMPANY" OR AN ENGINEER-APPROVED EQUAL 10.BARS, PLATES, UNTHREADED BOLTS, WASHERS AND DRIFT BOLTS
SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 36.

11.BOLTS SHALL BE CONFORM TO ASTM A 307.

12.NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 563, GRADE A.

13.ALL BOLT HEADS, NUTS AND LAG SCREWS BEARING ON WOOD SHALL HAVE CUT WASHERS UNLESS NOTED. 14.BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" LARGER THAN THE NOMINAL BOLT DIAMETER. 15.NAILING OF SAWN WOOD MEMBERS, U.N.O. ON THE DRAWINGS, SHALL CONFORM TO THE SBCCI AND THE FOLLOWING

JOIST TO SILL OR GIRDER BETWEEN JSTS. TO TOP PLTOENAIL BLKG. BETWEEN STUDS, EA END TOENAIL OR FACE NAIL2-10d, 2-16d
BRIDGING TO JOIST TOENAIL EA. END 2-10d
2" T & G TO JST. OR GIRDER BLIND & FACE NAIL 2-16d
SOLE PLATE TO JOIST OR BLKG. FACE NAIL 16d @ 16" END NAIL TOENAIL OR END NAIL STUD TO SOLE PLATE DOUBLE TOP PLATES FACE NAIL 16d @ 16" TOP PLATE INTERSECTIONS 16d @ 16" CONT.HEADER,TWOPIECES FACENAILSEA.EDGE CONTINUOUS HEADER TO STUD TOENAIL CLG. JSTS., LAPS OVER PARTITONSACE NAIL CLG. JSTS. TO PARALLEL RAFTERSACE NAIL 3–16d 3–8d RAFTER TO PLATE TOENAIL 1" BRACE TO EACH STUD & PLATFACE NFAIL BUILT-UP CORNER STUDS FACE NAIL 16d @ 24"
BUILT-UP GIRDERS & BEAMS STGRD. ALONG EA. EDGEOd @ 32" AT ENDS & EA. SPLICE2-20d

*WHENEVER POSSIBLE NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS. 17.USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE BUILDING OFFICIAL. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16' PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED

18.NAILS UNLESS NOTED OTHERWISE SHALL BE COMMON NAILS. (NOT BOX NAILS) 19.SPECIAL CONNECTORS FOR CONNECTING WOOD OR GLUED LAMINATED TIMBER SHALL BE FABRICATED FROM STEEL CONFORMING TO ASTM A36. WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1—85.
20DIAPHRAGM NAILING SPACING SHALL CONFORM TO THE PLANS
WITH NOMENCLATURE DEFINED AS FOLLOWS: BN= NAILING AT DIAPHRAGM BOUNDARIES, CONTINUOUS PANEL

FN =FIELD NAILING 21.WHERE THE DIAPHRAGM BLOCKING IS SPECIFIED, USE 2x4 FLAT BLOCKING (WITH "Z" CLIPS). U.O.N.
22SIMPLE SPAN WOOD MEMBERS, NOT SHOP CHAMBERED, SHALL IS ERECTED WITH THE NATURAL CAMPER UP. FOR CANTILEVERED WOOD MEMBERS, CONSULT WITH ENGINEER. 23LEAD HOLES FOR LAG SCREWS IN WOOD SHALL BE BORED AS

EDGES, AND AT EDGES OF OPENING.

FOR SHANK: SAME DIAMETER AND LENGTH AS UNTHREADED SHANK. FOR THREADED PORTION: 60% TO 75% OF SHANK DIAMETER & LENGTH EQUAL TO THE THREADED PORTION. 24ALL NAILS LARGER THAN 16d AND ALL NAILING TENDING TO CAUSE SPLITTING OF WOOD MEMBERS, SHALL BE INSTALLED IN PREDRILLED

REINFORCEMENT TENSION LAPS AND EMBEDMENT (fy=60,000 PSI f'c=3,000 PSI)

			` '						
	BAR	EMBEDM	IENT AND	CLASS A L	AP (IN)		CLASS B	LAP (IN)	
BAR SIZE	DIA.	TOP	BAR	OTHER	BARS	TOP	BAR	OTHER	BARS
	(IN)	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	3/8	22	32	14	25	28	42	22	32
#4	1/2	29	43	22	33	37	56	29	43
#5	5/8	36	54	28	41	47	74	36	54
#6	3/4	43	64	33	50	56	84	43	64
#7	7/8	63	94	48	72	81	122	63	94
#8	1	72	107	55	82	93	134	72	107
#9	1-1/8	81	121	62	93	105	157	81	121
#10	1-1/4	91	136	70	105	118	177	91	136
#11	1-3/8	101	151	78	116	131	196	101	151
NOTEC									

NOTES:

1. TABLE REPRESENTS LENGTHS OF TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICES LENGTHS BASED ON AC1 318-08 SECTION 12.2.2.

2. CLASS A LAP LENGTHS APPLY WHEN BARS LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION WHERE THE REINFORCEMENT AREA PROVIDED IS AT LEAST TWICE THAT REQUIRED.

3. CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.

4. CASE 1 LENGTHS APPLY TO BEAMS AND COLUMNS WITH CONCRETE COVER EQUAL OR GREATER THAN THE BAR DIAMETER, CLEAR BAR SPACING EQUAL OR GREATER THAN THE BAR DIAMETER AND WITH STIRRUPS OR TIES NOT LESS THAN THE CODE MINIMUM THROUGHOUT THE LENGTH IN THE TABLE, AND FOR OTHER ELEMENTS WITH CONCRETE COVER EQUAL OR GREATER THAN THE BAR DIAMETER AND CLEAR SPACING EQUAL OR GREATER THAN TWO TIMES THE BAR DIAMETER.

5. CASE 2 LENGTHS APPLY TO BEAMS AND COLUMNS WITH CONCRETE COVER LESS THAN THE BAR DIAMETER, AND CLEAR BAR SPACING LESS THAN THE BAR DIAMETER, AND FOR OTHER ELEMENTS WITH CONCRETE COVER LESS THAN THE BAR DIAMETER, AND CLEAR BAR SPACING LESS THAN THE BAR DIAMETER, AND CLEAR BAR SPACING LESS THAN THE BAR DIAMETER AND CLEAR BAR SPACING LESS THAN TWO TIMES THE BAR DIAMETER.

6. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.

7. MULTIPLY LENGTHS SHOWN BY 1.3 FOR LIGHTWEIGHT AGGREGATE CONCRETE.

8. MULTIPLY LENGTHS SHOWN BY 1.3 FOR LIGHTWEIGHT AGGREGATE CONCRETE.

9. MULTIPLY LENGTHS SHOWN BY 1.3 FOR EPOXY-COATED BARS.

E. MASONRY

A. CONCRETE BLOCK: LIGHTWEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) f'm=1,900 PSI A. CONCRETE BLOCK: LIGHTWEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) fm=1,900 PSI
B. MORTAR: ASTM C270 TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1,800 PSI
(PROPERTY SPECIFICATIONS) MORTAR TITE AS MANUFACTURED BY ADDIMENT.
C. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE f'c=2,000 PSI
D. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND
CROSS WIRES (LADUR TYPE) (DUR-O-WALL).
E. BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE

FOLLOWING REQUIREMENTS APPLY: A. PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48
DIAMETERS MINIMUM WITH WALL BAR. B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" X 3" IN SIZE, FREE OF

C. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).

D. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 DIAMETER LAP.

E. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.

F. MAXIMUM HEIGHT OF GROUT LIFT = 4'-0". UNLESS HIGH LIFT GROUTING

PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99 3. MISCELLANEOUS: A. FILL CORE SOLID AROUND ANCHOR BOLTS

B. PROVIDE 100% SOLID BLOCKS OR SOLIDLY FILLED HOLLOW BLOCKS AT ALL EXPANSION BOLT LOCATIONS.

C. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE

WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.

E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.

F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.

G. VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL JHEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. BOND BEAM REINFORCING AND GROUT SHALL CONTINUE THROUGH THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED WITH A FLEXIBLE MASTIC.

H. FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.

F. LINTELS:

. PROVIDE LINTELS OVER ALL OPENINGS IN WALLS. REFER TO ARCHITECTURAL AND HVAC DRAWINGS FOR LOCATION, NUMBER AND SIZES OF OPENINGS NOT SHOWN ON

G. STEEL STUDS/JOIST

2. A. STUDS AND TRACKS:AS PER SCHEDULE BELOW TO BE ASTM A446 GRADE D, Fy = 50 KSI. SPECIFICATIONS: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY LATEST A. AISC SPECIFICATION OF THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS. B. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.

C. LIGHTGAGE FRAMING MEMBER SIZES INDICATED ON DRAWINGS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

DESIGNATION	MEMBER DEPTH	FLANGE WIDTH	GAGE	lx (IN4)	USE	SPACING OF STUDS	MAXIMUM HEIGHT	
362S137-43	3-5/8"	1-3/8"	18	0.617	INTERIOR	16" O.C.	18'-3"	
600S137-43	6"	1-3/8"	18	2.043	INTERIOR	16" O.C.	27'-2"	
600S162-43	6"	1-5/8"	18	2.317	EXTERIOR	16" O.C.	16'-10"	
600S200-54	6"	2"	16	3.321	EXTERIOR	16" O.C.	19'–10"	
ALL JOISTS TO BE MANUFACTURED BY DIETRICH INDUSTRIES OR EQUIVALENT EQUAL								

D. LOAD BEARING HEADER SCHEDULE. MAX. ALLOWABLE LOAD 1,250 PLF.

MAX CLEAR SPAN	WALL THICKNESS	HEADER MEMBERS*
3'-4"	6"	(2) 600S200-43
6'-4"	6"	(2) 600S200-68
8'-0"	6"	(2) 800S200-68
10'-0"	6"	(2) 1000S200-97
12'-0"	6"	(2) 1000S250-97
14'-0"	6"	(3) 1200S200-97
* PROVIDE T	OP AND B	OTTOM TRACK SAME

GAGE AS HEADER MEMBER A. ALL CONNECTIONS TO BE FIELD SCREWS.

A. ALL MATERIALS TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.

B. TOUCH UP FIELD WELDS WITH ZINC RICH PAINT. 5. MISCELLANEOUS: A. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. B. ALL STUDS USED FOR EXTERIOR WALL FRAMING SHALL BE 6" STEEL STUDS, MINIMUM 16 GAGE AT 16" O.C. MAXIMUM, U.N.O. ON PLAN.
C. ALL STUD MEMBERS AND THEIR CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR A HORIZONTAL WIND LOAD OF AS NOTED IN SECTION B.

PROVIDE CALCULATIONS STAMPED BY A REGISTERED STRUCTRAL ENGINEER IN THE STATE OF TEXAS. D. DEFLECTION LIMIT = L/240 (EXCEPT L/360 AT PLASTER APPLICATION).
E. OPENINGS 10'-0" OR LESS IN WIDTH SHALL BE FRAMED WITH LIGHTGAGE
FRAMING MEMBERS. HEADS OR OPENINGS SHALL CONSIST OF STUD OR JOIST
SECTIONS SUFFICIENT TO CARRY THE WEIGHT OF THE WALL ABOVE. JAMB

ECTIONS SHALL CONSIST OF HEAVIER GAGE STUDS, MULTIPLE STUDS, OR BOTH, IS REQUIRED TO CARRY THE WIND LOAD OF THE ADJACENT OPENING.

F. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.

3. WELD SIZE TO BE 3/32" WITH AWS TYPE 6013 OR 7014 ROD.

H. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD AT EACH SIDE OF TRACKS OR POWER DRIVEN FASTENERS. PROVIDE CONTINUOUS HORIZONTAL BRIDGING AT 4'-0" O.C. MAXIMUM FOR

J. PROVIDE DOUBLE STUDS UNDER BEAM AND LINTEL BEARING, UNLESS SHOWN OTHERWISE K. BRIDGING FOR ROOF JOISTS SHALL BE AT 8'-0" OR MAXIMUM BETWEEN

A. GENERAL

. THE STRUCTURE IS DESIGNED TO BE SELF—SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION

OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC,

PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY.

CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST

B. ENGINEERING DESIGN CRITERIA

BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021 SECTION 1603: CONSTRUCTION DOCUMENTS

1603.1.1 FLOOR LIVE LOAD: A. PUBLIC AREAS, LOBBIES B. RESTROOMS OFFICES CORRIDORS STACK ROOMS MECHANICAL ROOMS 1603.1.2 ROOF LIVE LOAD:

A. MINIMUM ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
1603.1.3 ROOF SNOW LOAD:

A. FLAT ROOF SNOW LOAD, Pf= 0 PSF SNOW EXPOSURE FACTOR, Ce= 0.9 SNOW LOAD IMPORTANCE FACTOR, I= 1.0 THERMAL FACTOR, Ct= 1.0

1603.1.4 WND DESIGN DATA:

A. ULTIMATE WND SPEED (3—SECOND GUST), Vult = 108 MPH
NOMINAL DESIGN WND SPEED (3—SECOND GUST), Vasd = 82 MPH B. RISK CATEGORY= II

WIND EXPOSURE= I D. INTERNAL PRESSURE COEFFICIENT, GCpi = +/- 0.18 E. COMPONENTS AND CLADDING NET DESIGN WIND PRESSURE (PSF):

EFFECTIVE					ZC	NE				
WIND AREA	1, 2	e, 2r	2n,	3r	73	бе	4	4	!	5
(FT^2)	POS.	NEG.								
10	+18.2	-33.3	+18.2	-36.6	+18.2	-44.9	+19.8	-21.5	+19.8	-26.6
20	+16.1	-28.2	+16.1	-32.6	+16.1	-39.8	+18.9	-20.6	+18.9	-24.8
50	+13.5	-21.5	+13.5	-27.6	+13.5	-33.1	+17.8	-19.4	+17.8	-22.4
100	+11.4	-16.5	+11.4	-23.7	+11.4	-27.9	+16.9	-18.5	+16.9	-20.6

1603.1.5 EARTHQUAKE DESIGN DATA:

B. SEISMIC IMPORTANCE FACTOR. le = 1.00MAPPED SPECTRAL RESPONSÉ ACCELERATION, Ss=0.048g AND S1=0.015g SPECTRAL RESPONSE COEFFICIENTS, Sds=0.0512g AND Sd1=0.024g

SEISMIC DESIGN CATEGORY= A
BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)= ORDINARY REINFORCED MASONRY SHEAR WALLS I. DESIGN BASE SHEAR= SEISMIC RESPONSE COEFFICIENT(S), Cs=

RESPONSE MODIFICATION FACTOR(S), R= 2.0 ANALYSIS PROCEDURE USED= EQUIVALENT LATERAL FORCE PROCEDURE 1603.1.6 GEOTECHNICAL INFORMATION: A. ALLOWABLE SOIL BEARING CAPACITY= 2,000 PSF TOTAL LOAD ON SELECT FILL 1603.1.7 FLOOD DESIGN DATA:

A. NOT APPLICABLE. 1603.1.8 SPECIAL LOADS: A. NOT APPLICABLE. 1603.1.9 SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:

A. NOT APPLICABLE. C. GENERAL NOTES FOR SITE PREPARATION

 REFER TO CIVIL AND ARCHITECTURAL PLANS FOR FINISH FLOOR ELEVATION.
 BUILDING AREAS TO SUPPORT SELECT FILL SHOULD BE STRIPPED OF ALL EXISTING VEGETATION AND TOPSOIL EXTENDING AT LEAST 5 FT BEYOND BUILDING PERIMETER.
 OVER-EXCAVATE A MINIMUM OF TWO (2) FEET FROM THE LOWEST EXISTING GRADE ELEVATION TO PROVIDE A LEVEL PLATFORM AND EXTEND AT LEAST FIVE (5) FEET FROM THE BUILDING FOOTPRINT. EXPOSED SUBGRADES SHOULD BE THOROUGHLY INTO THE PROPERTY OF THE PROPE PROOFROLLED IN ORDER TO LOCATE AND DENSIFY ANY WEAK AND COMPRESSIBLE

4. SCARIFY THE SUBGRADE AT LEAST EIGHT (8) INCHES AND MOISTURE CONDITION BETWEEN MINUS TWO (-2) TO PLUS THREE (+3) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698 (STD. PROCTOR) 5. USE THE STOCKPILED SOILS THAT MEET SELECT`FILL CRITERIA AS SELECT FILL TO START

6. STRUCTURAL FILL SHALL CONSISTS OF INORGANIC SANDY CLAYS, CLAYEY GRAVEL, CRUSHED LIMESTONE, OR CALICHE WITH A LIQUID LIMIT (LL) OF LESS THAN 35 (LL<35) AND A PLASTICITY INDEX (PI) BETWEEN SEVEN (7) AND FIFTEEN (15). THE FILL SHOULD BE PLACED IN COMPACTED LIFTS NOT TO EXCEED SIX (6) INCHES IN THICKNESS, MOISTURE CONDITIONED BETWEEN MINUS TWO (-2) TO PLUS THREE (+3) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM OF 97% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698 (STD. PROCTOR).

'. REFER TO GEOTECHNICAL ENGINEERING STUDY PREPARED BY CASTLE ENGINEERING & TESTING, LLC REPORT NO.: 24G034 DATED SEPTEMBER 12, 2024.

8. THE SOILS ENGINEER SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE SOILS ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL.

9. PROVIDE DENSITY TESTING ON THE SUBGRADE SOILS AND THE SELECT FILL AT EVERY LIFT AND FOR EACH 2,500 SF OF SLAB AREA, OR A MINIMUM OF 3 DENSITY TEST PER THE STAND FOR EACH 2,500 SF OF SLAB AREA, OR A MINIMUM OF THE DECLINE

ESTING INTERVAL. WHICHEVER IS GREATER. ANY AREAS NOT MEETING THE REQUIRED OMPACTION SHOULD BE RECOMPACTED AND RETESTED UNTIL COMPLIANCE IS MET 10.0BSERVATION OF REINFORCEMENT PLACEMENT WILL NEED TO BE PROVIDED BY SYNERGY STRUCTURAL ENGINEERING, INC. BEFORE CONCRETE POUR. THE FOLLOWING ITEMS WILL NEED TO BE PROVIDED BY CONTRACTOR AND/OR OWNER BEFORE REBAR OBSERVATION:

A. COMPACTION REPORTS OF SUBGRADE AND SUBSEQUENT LIFTS PERFORMED BY AN APPROVED TESTING LABORATORY. B. COMPACTION AND INSPECTION REPORTS BY AN APPROVED TESTING LABORATORY FOR THE BACKFILLING OF THE TRENCHES OF PLUMBING OR ELECTRICAL LINES.

**FAILING TO PROVIDE COMPACTION REPORTS WILL VOID ANY WARRANTIES AND/OR LIABILITIES DESCRIBED IN THESE PLANS AND/OR PROPOSAL—AGREEMENT BETWEEN OWNER/CONTRACTOR AND SYNERGY STRUCTURAL ENGINEERING, INC.

D. REINFORCED CONCRETE

A. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301—LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."

B. STRUCTURAL CONCRETE: ASTM C-150 TYPE I/II

			·		
CONCRETE TYPE	DESIGN	MAXIMUM	MAXIMUM	MAXIMUM	W/C RATIO
	STRENGTH	SLUMP	AGGREGATE	AIR ENTR.	NO AIR ENTR.
FOUNDATION	3000 PSI	5"	1-1/2"	0.5	0.6
* ALL MIXES SH			5 SACKS OF		

ALL DEFORMED REINFORCING BARS (ASTM A 615): FY = 60,000 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A165-85. (SHEET FORM, NOT ROLLED) 2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES. 3. CONTINGENCIES:

A. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID. A. DOWELS IN FOOTINGS TO MATCH VERTICAL WALL REINFORCING

B. PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES. 5. SPLICES: UNLESS NOTED OTHERWISE, LAP SPLICES AND EMBEDMENTS SHALL BE AS

6. CONSTRUCTION JOINTS A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP X 1/3 MEMBER THICKNESS.

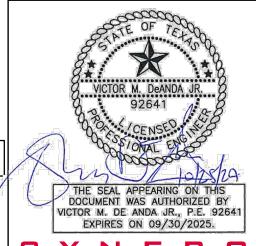
7. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS: A. CONCRETE CAST AGAINST AND

PERMANENTLY EXPOSED TO EARTH:

B. CONCRETE EXPOSED TO EARTH OR
WEATHER: #5 BARS AND SMALLER C. CONCRETE NOT EXPOSED TO EARTH 3/4 IN. OR WEATHER: SLABS, WALLS, AND #11 BARS & SMALLER 1 1/2 IN. CAVAZOSARCHITECTS 9114 MCPHERSON RD. STE 2501 LAREDO, TX 78045 P: (956) 724-8123 memo@cavazosarch.com

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CONSTRUCTION DOCUMENTS



SYNERG STRUCTURAL ENGINEERING, INC. 1119 Flores Ave. SUITE 300 Laredo, TX. 78040 (956) 753-5860 synergy@synergy-se.com TBPE Reg. No.: F-7661

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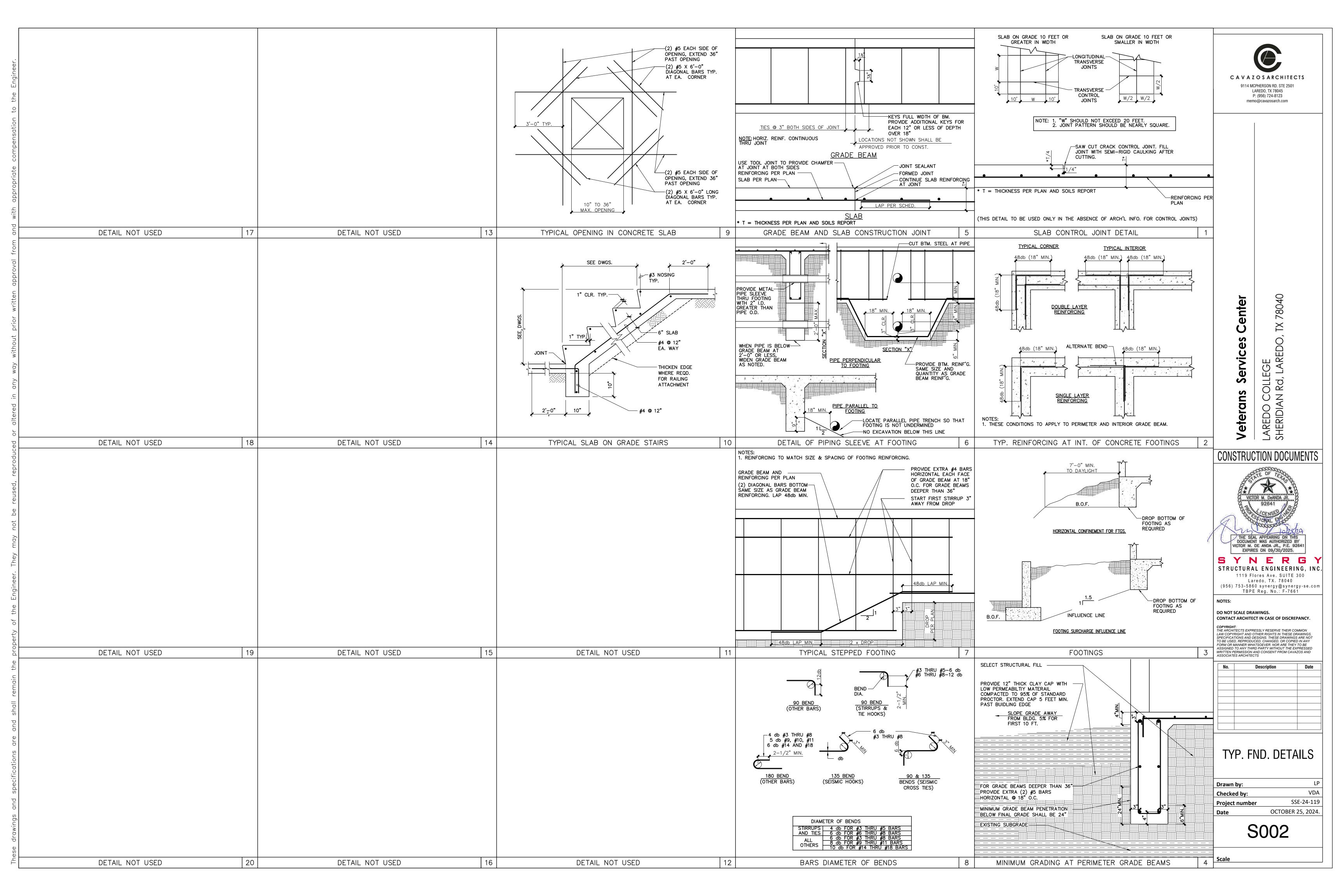
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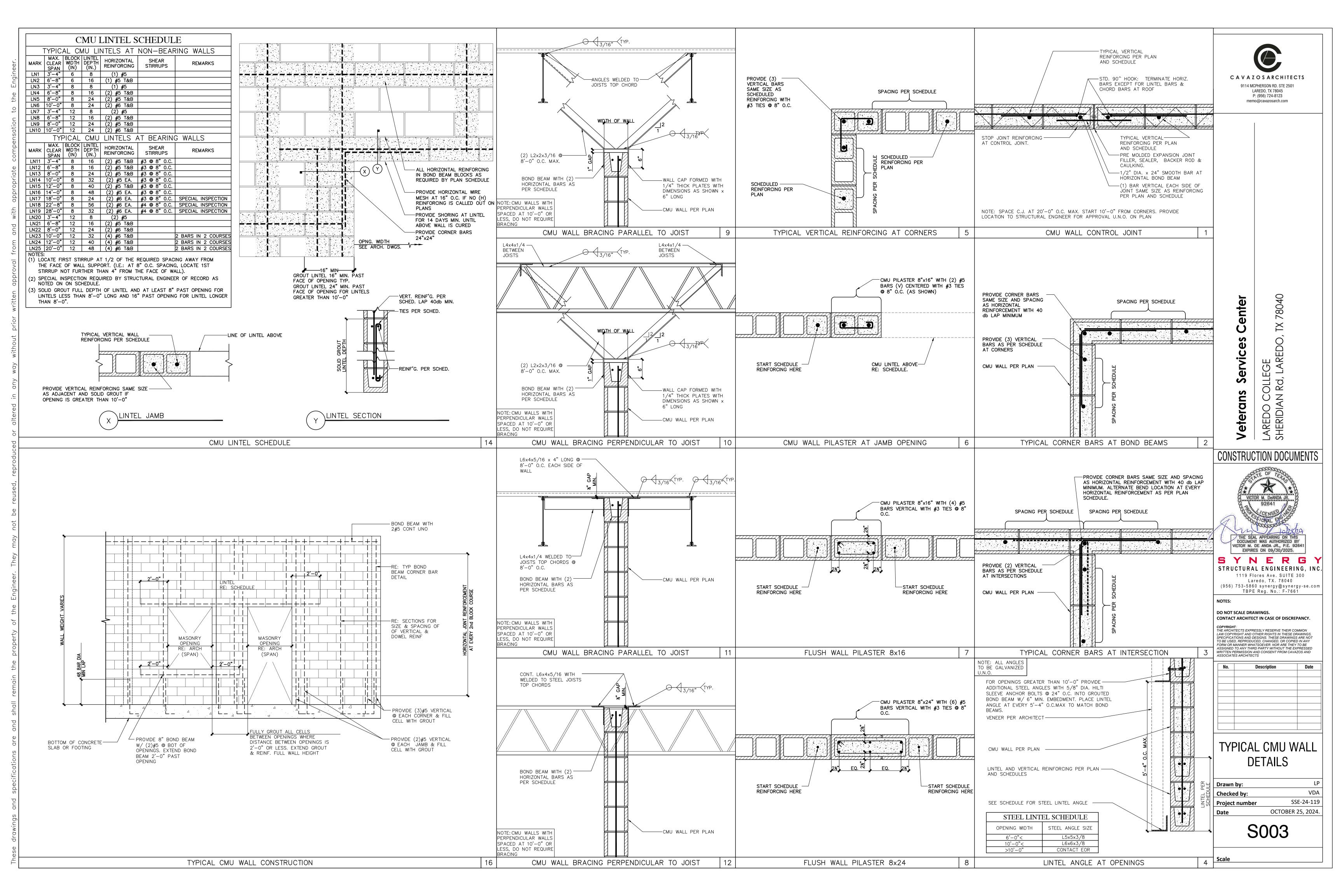
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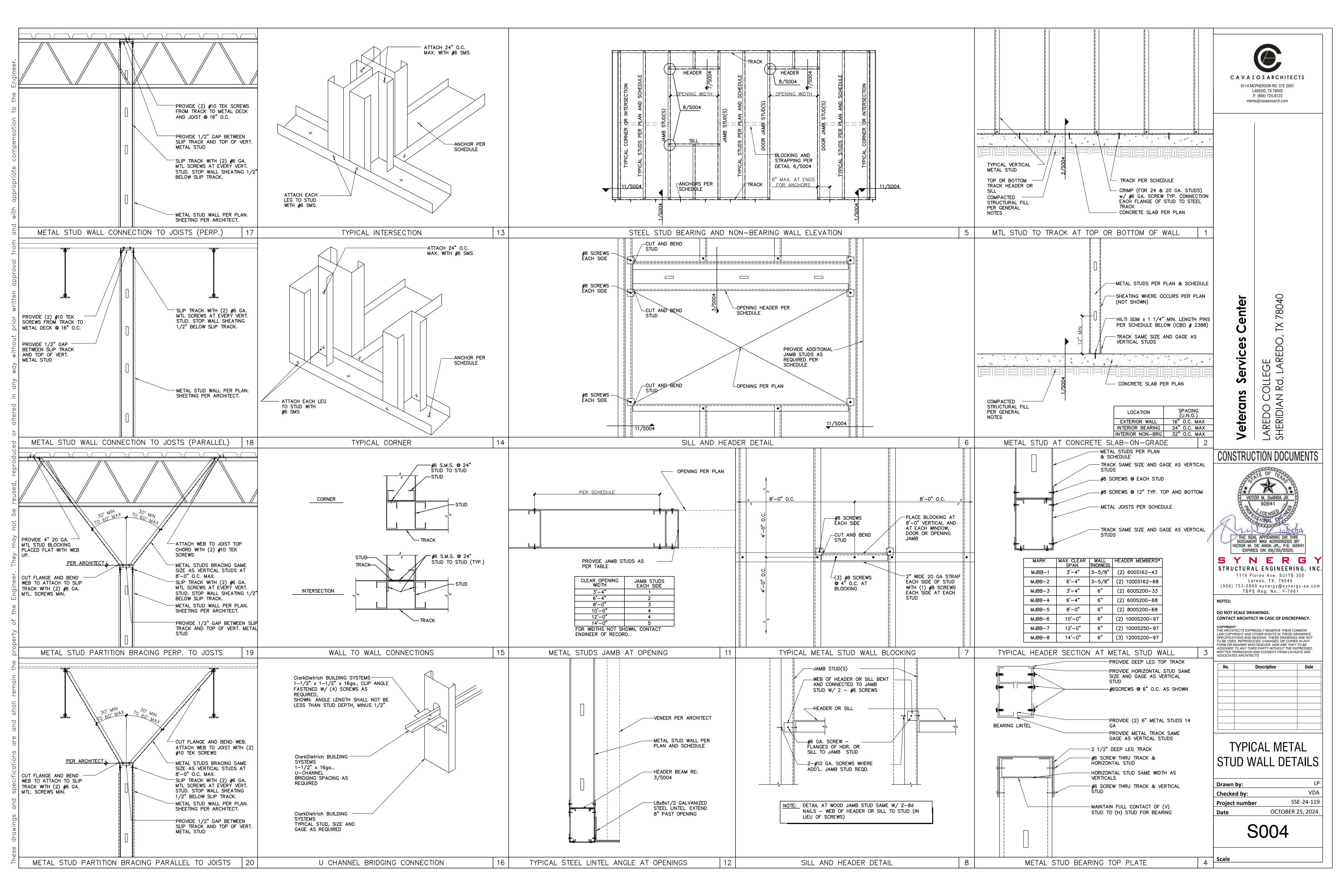
GENERAL NOTES

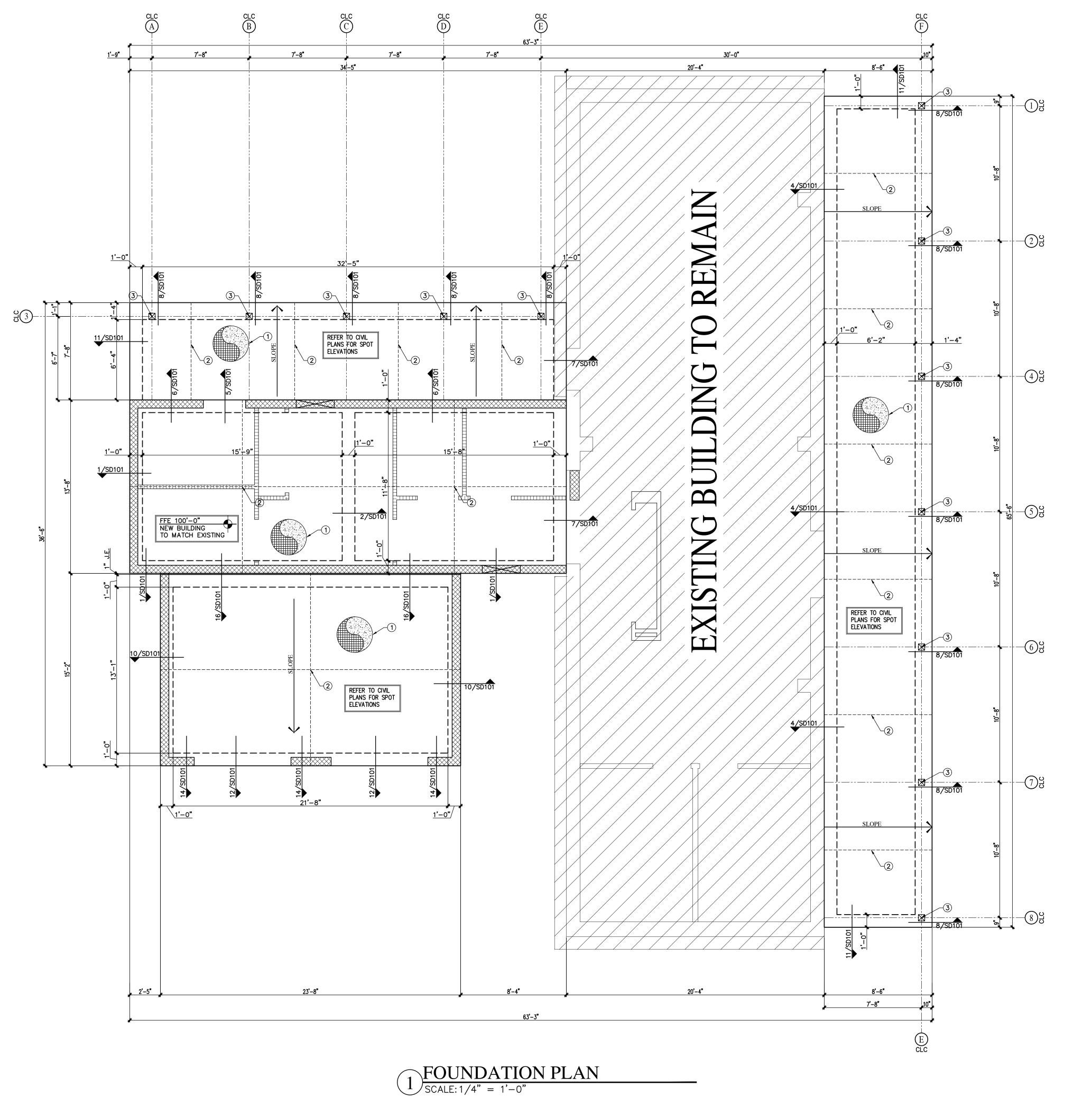
Drawn by: VDA Checked by SSE-24-119 Project numbe OCTOBER 25, 2024

GENERAL NOTES









FOUNDATION NOTES

SEE SHEET SO01 FOR GENERAL NOTES.
 SEE SHEET SO02 FOR TYPICAL FOUNDATION DETAILS.
 SEE SHEET SO03 FOR TYPICAL CMU WALL DETAILS.
 SEE SHEET SO04 FOR TYPICAL METAL STUD WALL DETAILS.
 CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL FLOOR DRAINS (F.D.) AND FLOOR DEPRESSIONS WHETHER OR NOT THEY ARE NOTED ON THE STRUCTURAL NOTES OR PLANS.
 DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION, COORDINATE WITH ARCHITECTURAL PLANS.
 CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK, THE CONTRACTOR/SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE THE WORK HAS BEGUN.
 WALL LEGEND:

WALL LEGENU:

| INDICATES EXISTING WALL TO REMAIN
| WALL | WALL | WALL |
| INDICATES 6" METAL STUD WALL |
| INDICATES 3-5/8" METAL STUD WALL |
| REFER TO CMU WALL SCHEDULE FOR REINFORCING.
| ABBREVIATIONS:
| CLC=CENTER LINE COLUMN

REFER TO CMU WALL SCHEDULE FOR REINFORCIN

9. ABBREVIATIONS:
CLC=CENTER LINE COLUMN
CLW=CENTER LINE WALL
FOC=FACE OF COLUMN
FOW=FACE OF WALL
FFE=FINISH FLOOR ELEVATION

FFE=FINISH FLOOR ELEVATION

10.ALL ELEVATIONS REFERENCED HEREIN, ARE FROM THE
BUILDING FINISH FLOOR ELEVATION OF 100'-0". REFER TO CIVIL
PLANS FOR FINAL BUILDING ELEVATION.

11.REFER TO DETAIL 1/S003 FOR CMU CONTROL JOINTS. UNLESS
NOTED OTHERWISE, CONTROL JOINTS SHALL START AT 10 FT
FROM EDGES OR CORNERS AND 20 FT O.C. IN BETWEEN.
PROVIDE LOCATION OF CONTROL JOINTS FOR ENGINEER OF
RECORD TO APPROVE BEFORE ERECTION OF WALLS.

12.REFER TO CIVIL PLANS FOR RAMPS, STAIRS & SIDEWALKS.

KEYED FOUNDATION NOTES

(3) 6x6 SPRUCE PINE FIR SOUTH WOOD POST.

5" THICK SLAB ON GRADE WITH #4 BARS @ 15" O.C. EACH WAY AT MID-DEPTH OF SLAB OVER 10 MIL VISQUEEN MOISTURE BARRIER OVER APPROVED COMPACTED FILL.
 SLAB CONTROL JOINTS, SEE DETAIL 1/S002

WALL TYPE	t	REINFORCING- SEE FOOT NOTE (1)	FOOT NOTE	SPE INSF
WL-1	6"	#4 BARS (V) @ 48" O.C. CTR. & (1) #5 BAR (H) AT 10'-0"	(2)	N
WL-2	8"	#5 BARS (V) @ 48" O.C. CTR. & (1) #5 BAR @ 5'-4" O.C. (H)	(3)	N

(2)TYP. 6" CMU INTERIOR NON-BEARING WALL U.N.O. (3)TYP. 8" CMU EXTERIOR BEARING WALL U.N.O.

memo@cavazosarch.com

Veterans Services Cen LAREDO COLLEGE SHERIDIAN Rd, LAREDO, TX 78

CONSTRUCTION DOCUMENTS



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(956) 753-5860 synergy@synergy-se.com
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No.	Description	Date

FOUNDATION PLAN

Drawn by:

Checked by:

VDA

Project number

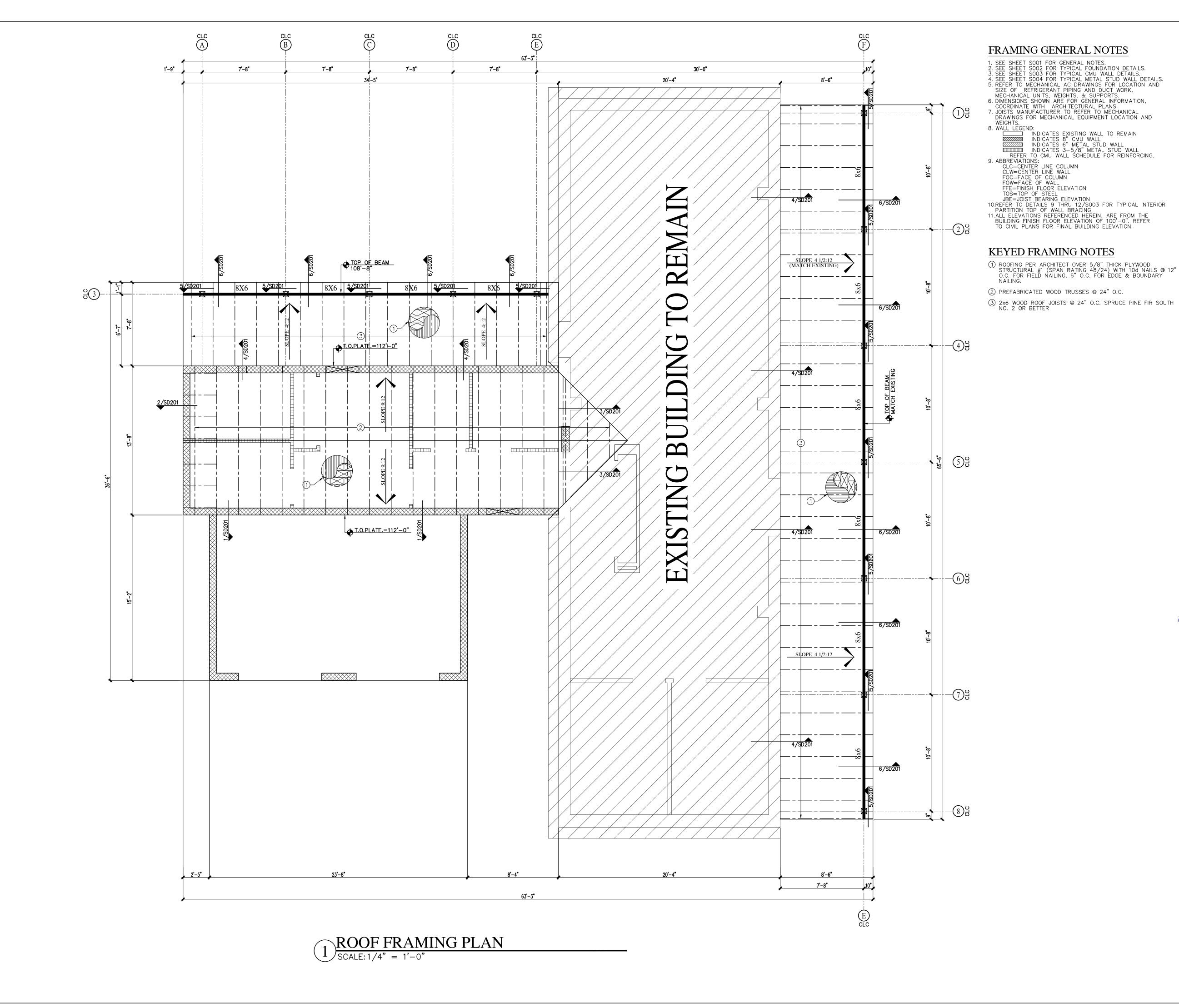
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Date

OCTOBER 25, 2024.

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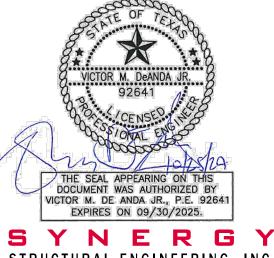
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Veterans Services Center
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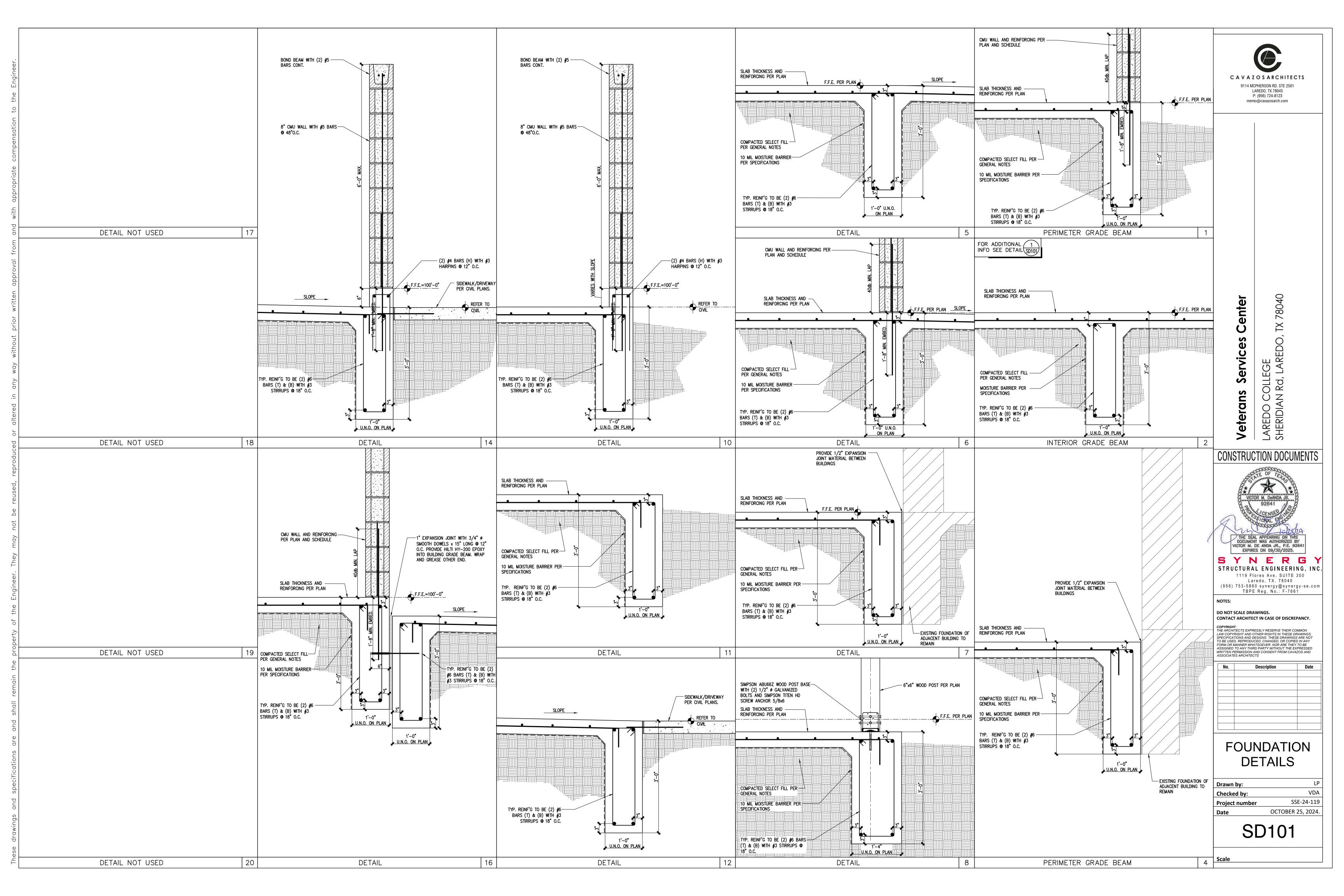
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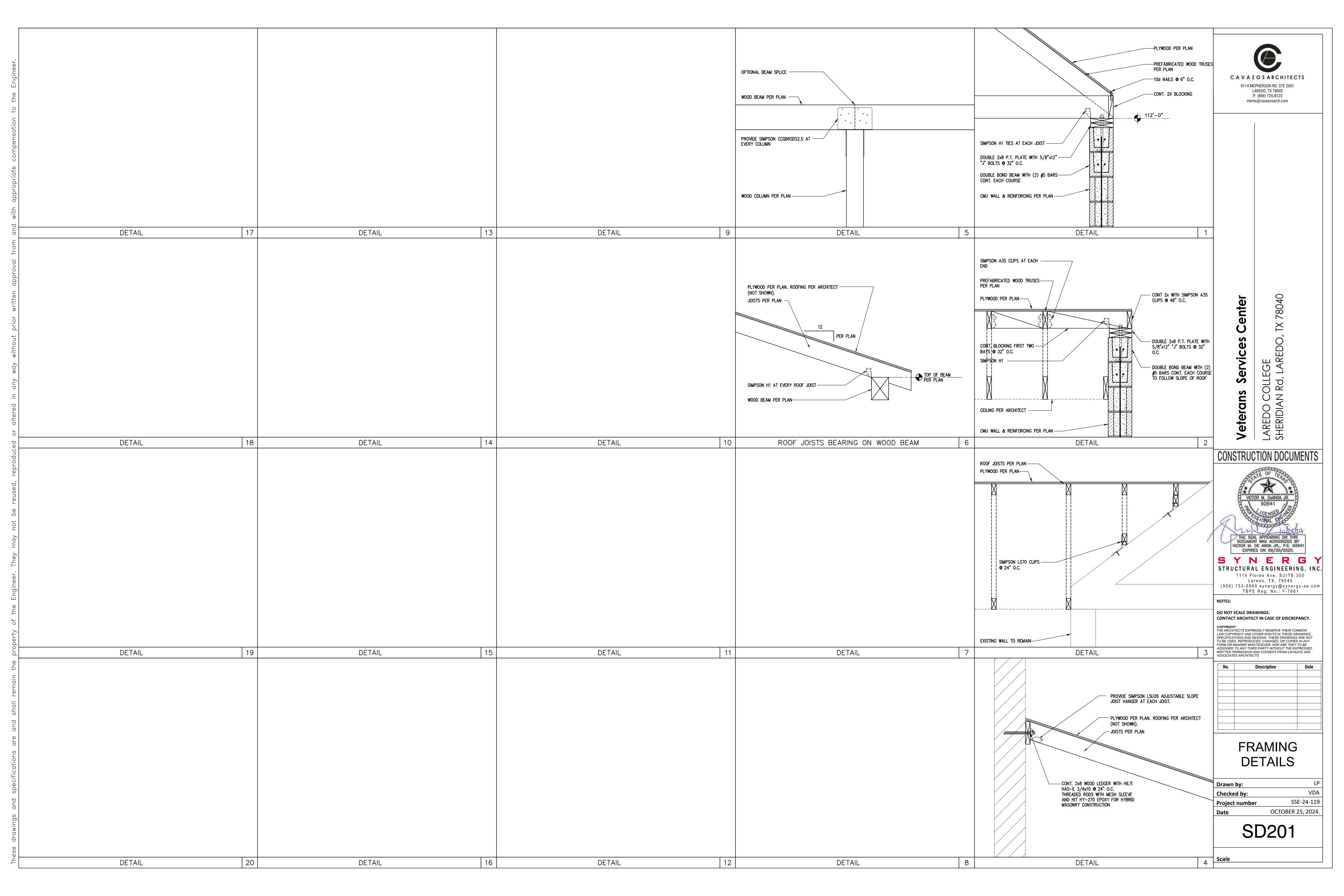
ROOF FRAMING PLAN

Drawn by: LP
Checked by: VDA
Project number SSE-24-119
Date OCTOBER 25, 2024.

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GENERAL NOTES - MECHANICAL:

(1) THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.

(2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

(4) CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

(5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.

(6) ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES

(7) ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.

(8) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B. (NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS) (NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)

(9) CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SHUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES, VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

(10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.

(11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION

(12) ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

(13) PROVIDE EACH HVAC SYSTEM OF 2000 CFM & GREATER W/ DUCT SMOKE DETECTOR(S) IN COMPLIANCE WITH IBC 907.2.13.1.2 & 907.3.1 IN RETURN AIR DUCTWORK TO SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL & INSTALLED BY ELECTRICAL (OR REGISTERED FIRE ALARM COMPANY WHERE APPLICABLE). COORDINATE W/ EQUIPMENT MANUFACTURER & AUTHORITY HAVING JURISDICTION FOR RECOMMENDED MOUNTING LOCATION AND METHOD. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

(14) PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT. DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER. SUB-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE. PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK.

(15) FILTER INSTALLATION AND REPLACEMENT

A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR

HANDLERS DURING CONSTRUCTION.

B. REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING

1. REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS.

2. REPLACE SUPPLY FILTERS.
(16) PRIOR TO START UP

A. CONTRACTOR SHALL FOLLOW THE AIR CONDITIONING EQUIPMENT MANUFACTURER'S STARTUP CHECKLIST.

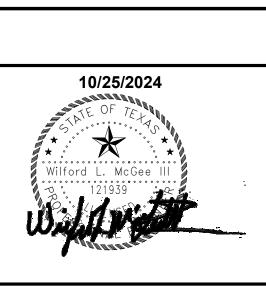
1. CONTRACTOR SHALL MAKE SURE THAT ALL DUCTWORK IS CLEAN AND THAT FILTERS ARE PROVIDED FOR EACH UNIT. IF INTERIOR CONDITIONS ARE NOT CLEAN AND AIR BORN DUST IS STILL PRESENT, TEMPORARY FILTERS SHALL BE PROVIDED AT EVERY RETURN AIR GRILLE.

APPLICABLE BUILDING CODE

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING ELECTRICAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION
2018 INTERNATIONAL FIRE CODE
2012 TEXAS ACCESSIBILITY STANDARDS

MECHANICAL SYMBOL LEGEND	MECHANICAL ABBREVIATIONS					
_CFM	A/C	AIR CONDITIONED	MAX	MAXIMUM		
	AD	ACCESS DOOR	MBD	MANUAL BALANCING DAMPER		
	AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER		
TAG → A 325(2) → QUANTITY		AIR HANDLING UNIT	MECH	MECHANICAL		
NECK SIZE ——10"□(D) — OPPOSED BLACE DAMPER	AHU		_			
	APPROX	APPROXIMATE	MIN	MINIMUM		
CONICAL DUCT SPIN TAP — FLEXIBLE DUCT	ARCH	ARCHITECTURAL	MS	MOTOR STARTER		
PLEATBLE DOCT	BDD	BACK DRAFT DAMPER	NA	NOT APPLICABLE		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			NC	NORMALLY CLOSED		
	BHP	BRAKE HORSEPOWER BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT		
	BTU					
L—ROUND SHEET-METAL DUCT	CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN		
└─ BALANCING DAMPER	CH	CHILLER	NTS	NOT TO SCALE		
	CHP	CHILLED WATER PUMP				
	CLG	CEILING	OA	OUTSIDE AIR		
			OAH	OUTSIDE AIR INTAKE HOOD		
DETAIL NUMBER	CWP	CONDENSER WATER PUMP	OBD	OPPOSED BLADE DAMPER		
	CO	CLEANOUT				
<u>B2</u>	CT	COOLING TOWER	OC	ON CENTER		
MH107	CU	CONDENSING UNIT				
	CW	COLD WATER	Р	PUMP		
SHEET NUMBER	_		PBD	PARALLEL BLADE DAMPER		
	CL	CENTER LINE	PP	PRIMARY CHILLED WATER PUMP		
PERFORATED INNER METAL LINER, WHERE INDICATED (DOUBLE WALL)	DD					
	DB DIA	DRY BULB DIAMETER	PRESS	PRESSURE		
			PRV	PRESSURE REDUCING VALVE		
	DN	DOWN	PSIG	POUNDS PER SQUARE INCH (GAUGE)		
→ /	DWG	DRAWING		,		
HIDDEN DUCT (FOR CLARITY)	DX	DIRECT EXPANSION				
· · · · · · · · · · · · · · · · · · ·			R	RETURN (AIR DEVICE)		
	EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR		
SUPPLY AIR GRILLE	EDH	ELECTRIC DUCT HEATER	RE: 4M7.01	REFER TO DETAIL 4, SHEET M7.01		
SOFT ET / WIN GRIELE	EF	EXHAUST FAN	RET	RETURN		
	ELEC	ELECTRICAL				
			RH	RELATIVE HUMIDITY		
	ELEV	ELEVATION	RHD	RELIEF HOOD		
SUPPLY AIR GRILLE-SLOT DIFFUSER	F	DEGREES FAHRENHEIT	RPM	REVOLUTIONS PER MINUTE		
	•		RTU	ROOF TOP UNIT		
	FC	FAN COIL	ICI O	NOOT TOT OTHER		
	FD	FIRE DAMPER W/ DUCT ACCESS DOOR	•	OUDDLY (AID DE) (IOE)		
RETURN AIR GRILLE	FLEX	FLEXIBLE	S	SUPPLY (AIR DEVICE)		
ALL RETURN AIR DUCT DROPS TO INCLUDE A MANUAL DAMPER	FLG	FLANGE	SA	SUPPLY AIR		
	FLR	FLOOR	SCH	SCHEDULE		
			SCHP	SECONDARY CHILLED WATER PUMP		
	FPM	FEET PER MINUTE				
(T) THERMOSTAT	FT	FEET, FOOT	SD	SMOKE DAMPER		
(\$) TEMPERATURE SENSOR	FS	FLOW SWITCH	SEC	SECOND		
THERMOSTAT S TEMPERATURE SENSOR TEMPERATURE OVERRIDE SENSOR/SWITCH	. •		SF	SUPPLY FAN		
	GAL	GALLON	SMACNA	SHEET METAL AND AIR CONDITIONING		
FIRE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR	GALV	GALVANIZED	5.77 (514)	CONTRACTORS NATIONAL ASSOCIATION		
FIRE/SMOKE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR			CD			
	GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE		
FLOW DIRECTION	НВ	HOSE BIBB	SPEC	SPECIFICATION		
FLOW DIRECTION	HP	HORSEPOWER	SF	SQUARE FOOT		
			STD	STANDARD		
	HR	HEAT PUMP (WATER SOURCE)	V.D			
PIPE DROP	HR	HOUR	TEMP	TEMPERATURE		
- I II L DKOI	HVAC	HEATING/VENTILATING/				
		AIR CONDITIONING	T'STAT	THERMOSTAT		
	HWP	HOT WATER PUMP	TYP	TYPICAL		
PIPE RISE		HERTZ	UF	UNDER FLOOR		
	HZ	HENTE				
	ID	INSIDE DIAMETER	UH	UNIT HEATER		
RETURN AIR DUCT RISE/DROP			UL	UNDERWRITERS LABORATORIES		
V RETORIN AIR DOCT RIGHT DROT	IE	INVERT ELEVATION (FLOW LINE)	_			
	IN	INCHES	VEL	VELOCITY		
SUPPLY AIR DUCT RISE/DROP	INSUL	INSULATION	VENT	VENTILATE		
SUPPLY AIR DUCT RISE/DROP	IN WG	INCHES OF WATER	VF	VENTILATION FAN		
	IIN WG	INCHES OF WATER	VOL			
	KW	KILOWATT(S)		VOLUME		
WALL OR FLOOR SLEEVE		` ,	VOLT	VOLTAGE		
	LAT	LEAVING AIR TEMPERATURE	W	WIDE, WIDTH		
	LAT					
CHILLED WATER SUPPLY/RETURN PIPING	LB	POUND	W/	WITH		
	L	LOUVER	WB	WET BULB		
			W/O	WITHOUT		

	INDEX OF SHEETS MECHANICAL							
Sheet Number	Sheet Name							
MG-101	MECHANICAL NOTES AND LEGEND							
MP-101	MECHANICAL FLOOR PLAN							
MC-101	MECHANICAL CONTROLS							
MC-102	MECHANICAL CONTROLS							
MS-101	MECHANICAL SCHEDULES							
MD-101	MECHANICAL DETAILS							



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KEY PLAN

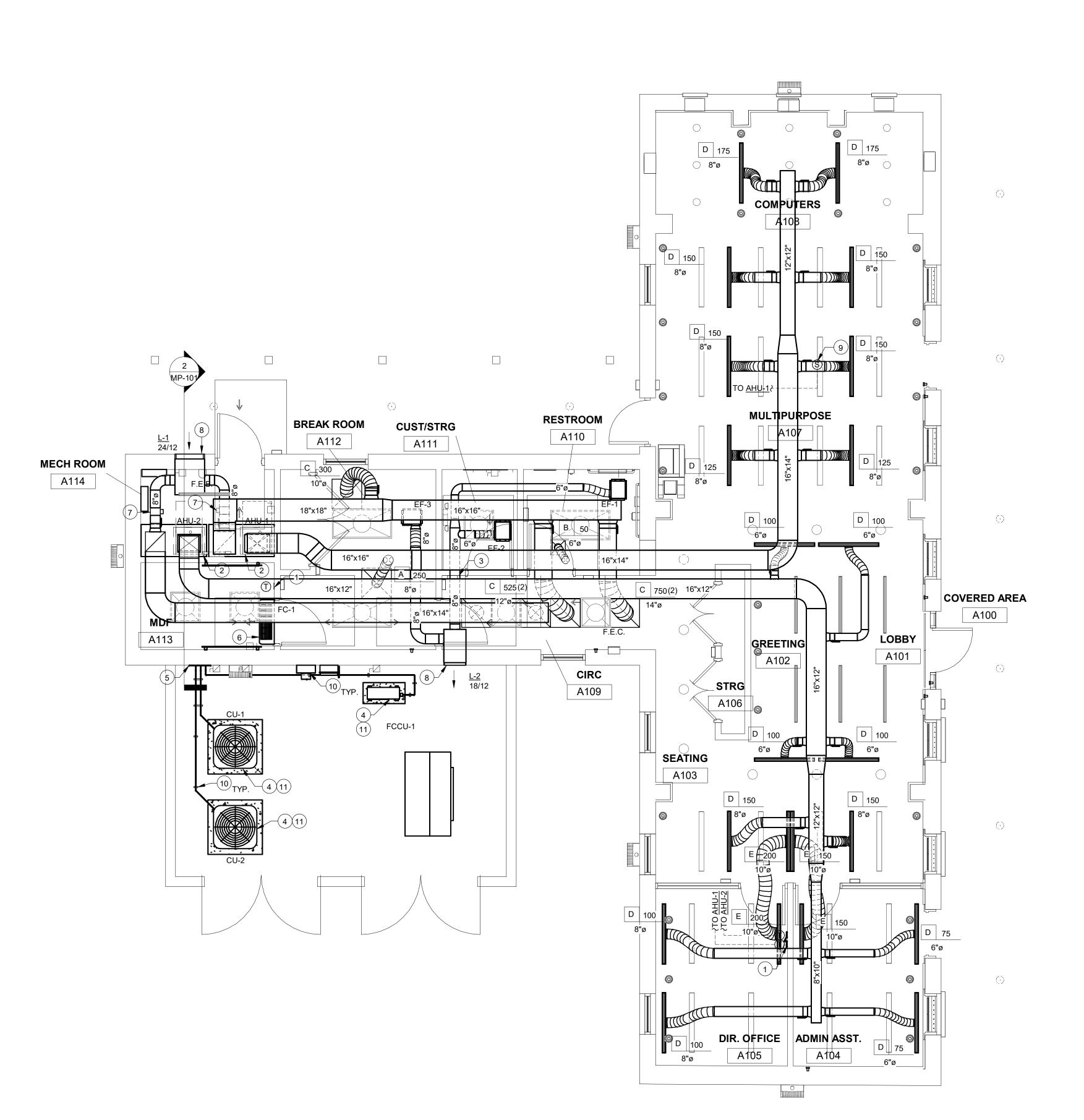
MECHANICAL NOTES AND LEGEND

Drawn by:AuthorChecked by:CheckerProject number:23.4.37Project Issue Date:10/25/2024

MG-101

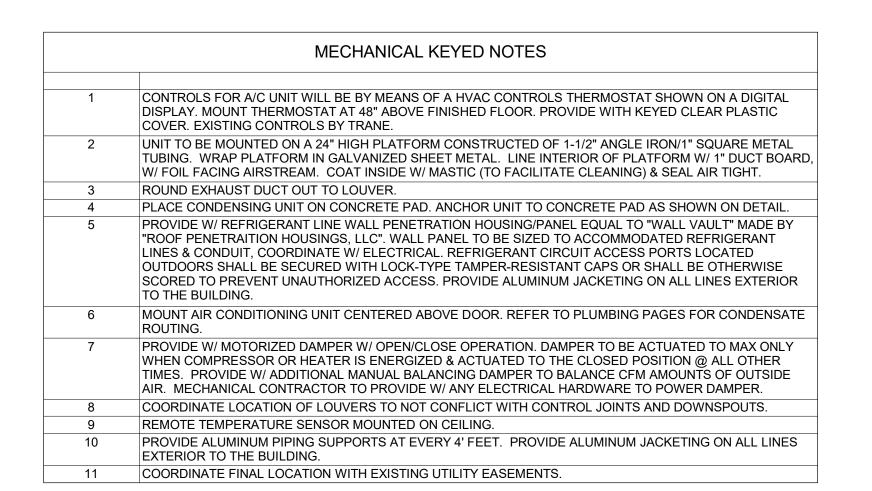
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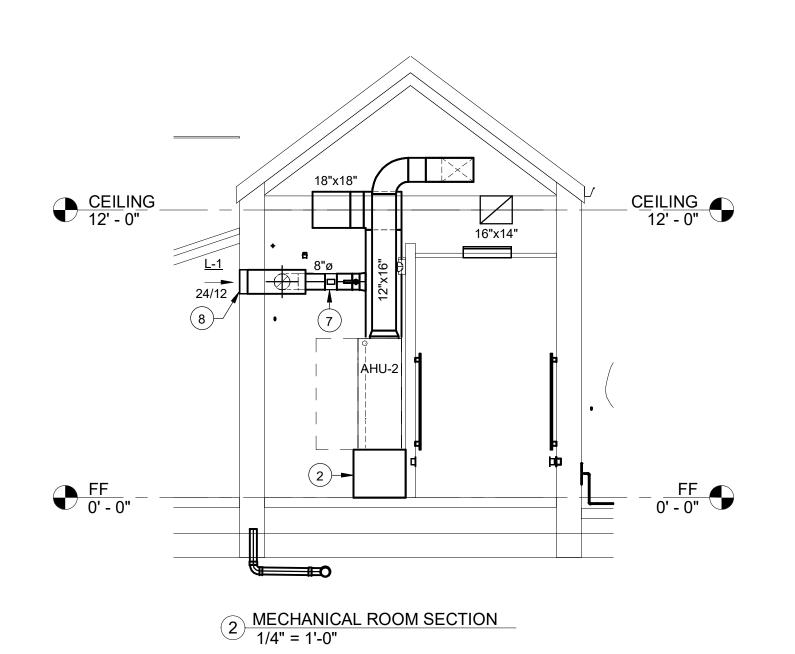
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MECHANICAL FLOOR PLAN - FIRST

1 FLOOR 1/4" = 1'-0"







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MECHANICAL FLOOR PLAN

Drawn by: Checked by: Project number:

10/25/2024 Project Issue Date: MP-101

Scale:

1/4" = 1'-0"

Checker

23.4.37

NOTES:

OUTDOOR UNIT ELECTRICAL

DETAILS AND ACCESSORIES

01. MECHANIC ADJUSTING CONTRACTOR TO PROVIDE ADDITIONAL BELTS & PULLEYS AS NECESSARY SUCH THAT TESTING & BALANCING CAN BE PERFORMED TO THE DESIGN AIR VOLUMES SPECIFIED IN SCHEDULE ABOVE.

02. PROVIDE W/ 2" EZ FILTER RACK BENEATH UNIT.

MAX WEIGHT

NOTES

MANUFACTURER

VOLTAGE/PHASE

MCA/MOCP

NOMINAL UNIT SIZE TONNAGE

CONDENSING UNIT SCHEDULE

MIN COOL/HEAT EFFICIENCY

COOL/HEAT AMBIENT DB (°F)

NOMINAL UNIT SIZE TONNAGE

COMPRESSOR QTY/STAGE QTY

TRANE

GAM5B0C48

4.0 TONS

175 LBS

CU-1

208/1

28/45

16 SEER/-

108/30

TRANE

4TTR6048

4.0 TONS

325 lbs

TRANE

GAM5B0C48

3.0 TONS

CU-2

208/1

18.4/30

16 SEER/-

108/30

TRANE

4TTR6036

3.0 TONS

325 lbs

- 03. PROVIDE W/ LIQUID LINE FILTER-DRIER, SIZED AT TWICE THE SIZE OF MINIMUM SIZE RECOMMENDATION.

 LOCATE FILTER-DRIER INSIDE OF AHU/MECH RM, WITHIN 3' OF AHU METERING DEVICE. PROVIDE W/
- SIGHT GLASS BETWEEN FILTER-DRIER & METERING DEVICE.
- 04. PROVIDE AUXILIARY DRAIN PAN W/ CUTOFF FLOAT SWITCH WIRED TO T-STAT. PROVIDE W/ SINGLE POINT POWERED CONDENSATE PUMP, REFER TO PLUMBING SHEETS FOR CONDENSATE ROUTING.
 05. PROVIDE W/ FACTORY DUCT SMOKE DETECTOR. REFER TO MANUFACTURER'S INTALLATION MANUAL FOR
- INSTRUCTIONS. TO BE MOUNTED & WIRED BY MECH CONTRACTOR.

 06. PROVIDE W/ SINGLE POINT PWR; TRANE, CARRIER, LENNOX, ACCEPTABLE MFGs.
- 07. CLEARANCES & SA/RA COLLARS SHOWN ON PLANS ARE FOR SCHEDULED MAKE/MODEL. IF A SUBSTITUTION IS MADE, CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING SA/RA DUCTWORK & CLEARANCES AS PER SUBSTITUTED MANUFACTURER'S REQUIREMENTS.
- SUBSTITUTED MANUFACTURER'S REQUIREMEN 08. PROVIDE W/ SINGLE ZONE VAV CONTROL.
- 09. PROVIDE CONDENSER W/ FACTORY HAIL GUARDS & RUBBER ISOLATOR MOUNTING KIT.
- 10. PROVIDE CONDENSER COIL W/ FACTORY APPROVED E-COAT.

OUTSIDE	OUTSIDE AIR CALCULATIONS											
BASED ON IMC 2018, SECTION 403, TABLE 403.3.1.1												
	OCCUPANT	REQ'D OA	TOTAL OCC		REQ'D OA	TOTAL SQFT	RM TOTAL	TOTAL OA				
AREA	QUANTITY	CFM/OCC	OA REQ'D	SQFT	CFM/SQFT	OA REQ/D	OA REQ'D	SUPPLIED				
A108 COMPUTERS	7	5	35	240	0.06	14.4	49					
A107 MULTIPURPOSE	10	5	50	325	0.06	19.5	70					
A109 CIRC	0	0	0	75	0.06	4.5	5					
A110 RESTROOM	1	0	0	55	0	0	0					
A112 BREAKROOM	3	5	15	105	0.06	6.3	21					
TOTAL AHU-1	21			800			145	150				

	OCCUPANT	REQ'D OA	TOTAL OCC		REQ'D OA	TOTAL SQFT	RM TOTAL	TOTAL OA
AREA	QUANTITY	CFM/OCC	OA REQ'D	SQFT	CFM/SQFT	OA REQ/D	OA REQ'D	SUPPLIED
A102 GREETING	4	5	20	145	0.06	8.7	29	
A103 SEATING	4	5	20	170	0.06	10.2	30	
A104 ADMIN ASST.	1	5	5	107	0.06	6.42	11	
A105 DIR. OFFICE	1	5	5	107	0.06	6.42	11	
TOTAL AHU-2	10			529			82	150

AIR B	ALANC	E SCHE	DULE
MARK	O.A. IN (+)	E.A. OUT (-)	BALANCE (+/-)
AHU-1	150		
AHU-2	150		
EF-1		75	
EF-2		50	
EF-3		150 (INTERMITTENT)	
TOTAL	300	125	(+) 175

REFRIGERANT

MANUFACTURER

MAX WEIGHT (LBS)

MODEL NO.

CONTROL TYPE

NOTES

COOLING MODE OPER. RANGE

HEATING MODE OPER. RANGE

MIN COOL/HEAT EFFICIENCY

MIN EQUIV. LINE LENGTH (FT)

MIN VERTICAL RISE (FT)

D1. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM

02. PROVIDE W/ WIRED WALL MOUNTED THERMOSTAT W/ OFF-AUTO-ON FUNCTIONALITY. FAN COIL TO BE SET TO AUTO (TURNS FAN OFF WHEN SET-

03. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF REQUIRED.

05. CONTRACTOR TO PROVIDE ROOF CURB TO ANCHOR CONDENSER TO.

07. SIGHT GLASSES, FILTER DRYERS, & FIELD SUPPLIED EXPANSION VALVES ARE

09. PROVIDE W/ SINGLE POINT POWERED CONDENSATE PUMP, REFER TO

08. INSTALL PER MANUFACTURERS INSTRUCTIONS & PIPING RECOMMENDATIONS.

SERVICE TO OUTDOOR UNIT & WIRE TO INDOOR UNIT.

04. SEE PLUMBING FOR CONDENSATE ROUTING.

06. CONTRACTOR TO PROVIDE LINE SETS.

NOT TO BE USED ON THIS EQUIPMENT.

PLUMBING SHEETS FOR ROUTING.

POINT IS REACHED).

R-410A

15°F - 110°F

N/A

DAIKIN

RK09NMVJU

19 SEER/-

65

45

WL-RC

ALL

05. PROVIDE W/ TIMED DELAY SHUTOFF

06. PROVIDE W/ WALL MOUNTED ROTARY TIMED DIAL

SWITCH, 0-60 MINS, LABELED "VENT FAN".

JO. TX 78040

enter

Veterans

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KEY PLAN

MECHANICAL SCHEDULES

Drawn by:AuthorChecked by:CheckerProject number:23.4.37Project Issue Date:10/25/2024

MS-101

Scale: 3/16" = 1'-0"

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Sequence of Operation: AHU

Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied:

During occupied periods, the supply fan shall be commended on/ off switch with a call for cooling/ heating and the mixed air dampers shall open to maintain minimum ventilation requirements.

The DX cooling and the electric heat shall control to maintain the active discharge air temperature setpoint. The discharge air temperature setpoint shall be dynamically reset based on the deviation of actual space temperature from the active space temperature setpoint. If the discharge air temperature sensor fails, the DX cooling and the electric heat shall control to maintain the active space temperature setpoint and an alarm shall annunciate at the BAS. If the discharge air temperature sensor and the space temperature sensor fail, the DX cooling and electric heat shall be disabled and an alarm shall annunciate at the BAS.

Unoccupied:

When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start, the outside air damper shall remain closed and the electric heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the electric heat shall be disabled.

When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start, the outside air damper shall remain closed and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall remain closed.

Optimal Start:

The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Optimal Stop:

The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint. Outside air damper shall remain enabled to provide minimum ventilation.

Occupied Bypass:

The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Heat/Cool Mode:

When the space temperature rises above the occupied cooling setpoint the mode shall transition to cooling. When the space temperature falls below the occupied heating setpoint the mode shall transition to heating. When the space temperature is above the occupied cooling setpoint or below the occupied heating setpoint the mode shall remain in its last state. If the space temperature sensor fails the mode shall remain in its last state and an alarm shall annunciate at the BAS. If the local and communicated setpoints fail the controller shall disable the supply fan and an alarm shall annunciate at the BAS.

Morning Warm-Up Mode:

CONDENSER FAN STATUS

STAGE 2

START/ STOP

STATUS ____

During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and fan(s). The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

VFD-7 SAF (AO)

Daytime Warm-Up Control:

During Occupied periods, when the space temperature is below the Daytime Warm-up Initiate setpoint, a daytime warm-up sequence shall be activated. The outside air damper shall modulate to maintain minimum ventilation requirements, and the heating shall enable to maintain the discharge air temperature heating setpoint. Daytime Warm-up shall terminate when the average space temperature reaches the Occupied heating setpoint.

Pre-Cool Mode:

During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling. The outside air damper shall remain closed. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Demand Control Ventilation:

Using a space CO2 input (local sensor or network communicated value), the controller shall monitor and compare the measured space CO2 to the space CO2 concentration setpoint (adj.). When the measured space CO2 concentration reaches the setpoint (adj.), the outside air damper shall modulate open incrementally until the space CO2 level is satisfied or the outside air damper reaches the full open position. If the measured CO2 concentration falls, the outside air damper shall modulate toward minimum outdoor air position setpoint.

Discharge Air Temperature Reset Control:

On a rise in space temperature (+2.0 deg. F adj. or greater) above the space cooling setpoint (74.0 deg. F adj.); the supply fan speed shall modulate from minimum (50% adj.) to maximum (or design) air flow to maintain space cooling temperature setpoint while keeping the discharge air temperature setpoint at minimum (55.0 deg. F adj.).

As space temperature decreases below 76.0 deg. F (space cooling setpoint 74.0 deg. F + 2.0 deg. F); the fan speed shall be locked at minimum air flow and the discharge air temperature setpoint remains at minimum.

When space temperature decreases to 75.0 deg. F (cooling setpoint of 74.0 deg. F adj. + 1.0 deg. F) or below for a period of time (default 1 min. adj.); the fan speed shall remain at minimum, the discharge air temperature setpoint remains at minimum, and control enters into discharge air temperature setpoint reset mode.

As space temperature continues to drop below 75.0 deg. F (space temperature cooling setpoint + 1.0 deg. F); the fan speed shall remain at minimum and the discharge air temperature setpoint shall be reset from minimum (55.0 deg. F adj.) to maximum (65.0 deg. F adj.) as space temperature drops from 75.0 deg. F to 74.0 deg. F to maintain the space cooling temperature setpoint.

On a continued drop of space temperature below the space cooling temperature setpoint (74.0 deg. F adj.) through (71.0 deg. F adj.) the space temperature control shall be within its deadband; the fan speed remains at minimum and discharge air setpoint of (65.0 deg. F adj.) for cooling.

As space temperature decreases towards the heating setpoint (71.0 deg. F adj.) the control shall switch to the heating discharge air temperature reset. In the heating mode, the heat shall be enabled; the supply fan shall remain at minimum air flow and the discharge air temperature setpoint shall be reset from 70.0 deg. F to 90.0 deg. F as the space temperature drops from 71.0 deg. F to 70.0 deg. F.

As space temperature continues to decrease towards the heating setpoint (71.0 deg. F adj.) - 1.0 deg. F; the discharge air temperature setpoint shall remain at maximum (90.0 deg. F adj.), the fan shall be modulated from minimum to maximum air flow to maintain the space temperature heating setpoint.

When the space temperature increases the reverse control shall be implemented.

Supply Fan:

The unit controller shall vary the supply fan speed to optimize minimum fan speed in all cooling and heating modes.

Building Pressure Control (Relief Air):

After the fan startup delay expires, building static pressure shall be controlled by modulating the Outside Air Damper. As building pressure increases over the building pressure setpoint (adj.), the damper shall modulate closed. If the building pressure falls below the setpoint, the damper shall modulate open.

Mixed Air Low Limit:

The initial damper opening rate shall be limited to 2% per minute (adj.) until the damper has reached its minimum ventilation position. The outside air damper shall modulate to a position less than the minimum damper position if the mixed air temperature drops below 50.0 deg. F (adj.). If the mixed air temperature sensor fails an alarm shall annunciate at the BAS and the outside air damper shall return to the minimum position.

Condensate Overflow Monitoring:

If the condensate level reaches the trip point, a condensate overflow diagnostic shall annunciate at the BAS. To prevent the condensate drain pan from overflowing and causing water damage to the building the fan shall be disabled and the DX cooling shall be disabled.

Filter Status:

A differential pressure switch shall monitor the differential pressure across the filter(s) when the fan is running. If the switch closes during normal operation a dirty filter alarm shall annunciate at the BAS.

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Texas Registered Engineering Firm - F10362

Project number: 23.4.37

KEY PLAN

MECHANICAL CONTROLS

Drawn by: Author
Checked by: Checker
Project number: 23.4.37
Project Issue Date: 10/25/2024

MC-101

Scale: 3/16" = 1'-0'

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KEY PLAN

MECHANICAL CONTROLS

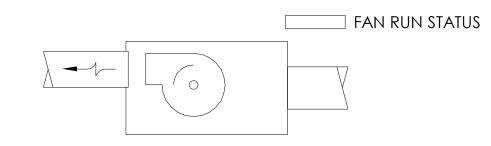
Drawn by: Checker Checked by: 23.4.37 Project number: 10/25/2024 Project Issue Date:

MC-102

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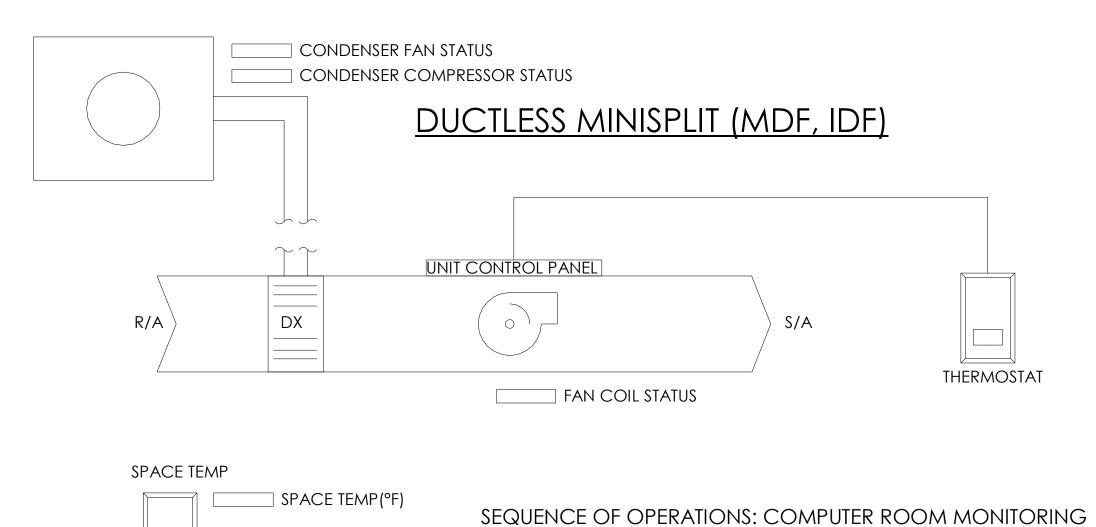
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EXHAUST FANS



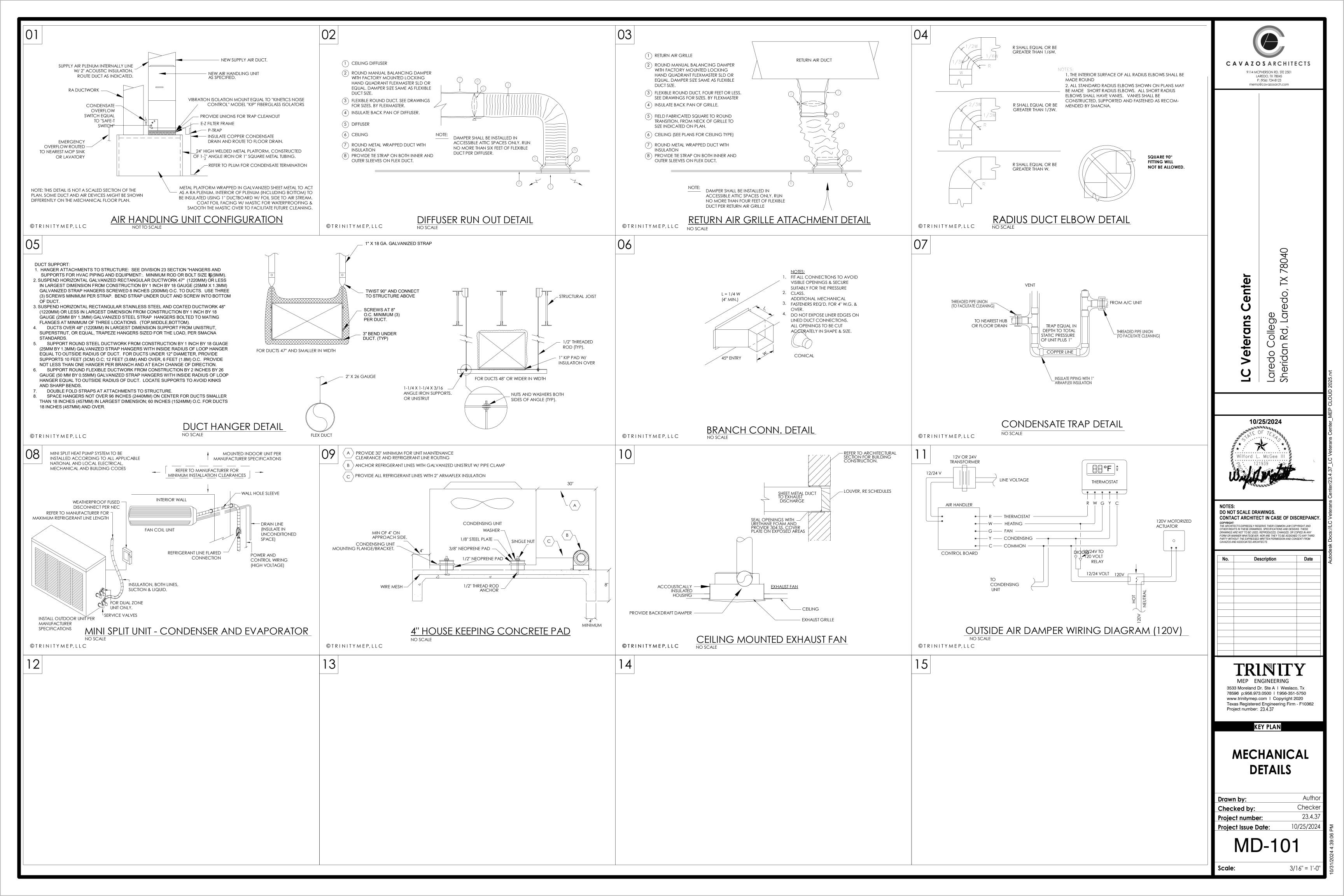
EXHAUST FAN CONTROLS:

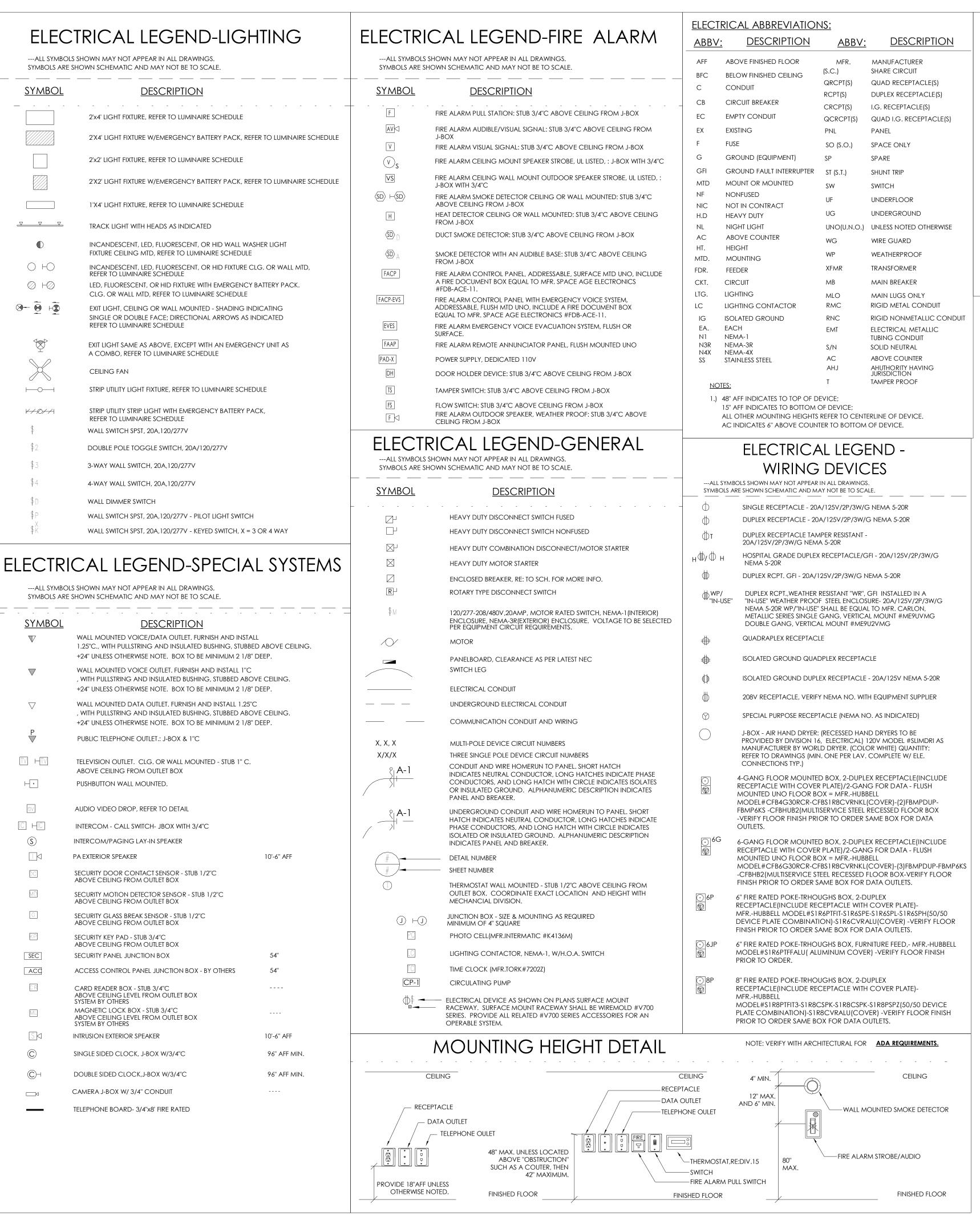
- A. EXHAUST FAN OPERATION SHALL BE DICTATED BY THE BAS SYSTEM UNDER A TIME OF DAY SCEHDULE UNLESS INTERLOCKED WITH AN AIR HANDLER SYSTEM IN WHICH CASE THE AIR HANDLER OF OPERATION SHALL DICTATE OPERATION. THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, AFTER THE DAMPER STATUS HAS PROVEN (IF APPLICABLE), UNLESS SHUTDOWN ON SAFETIES. THE BAS SHALL MONITOR THE FAN STATUS.
- B. ANY EXHAUST FAN CURRENTLY ON SWITCHES TO REMAIN, BUT NO TO BE DISABLED OUTSIDE OF OCCUPIED SCHEDULE.



A. SPACE TEMPERATURE MONITORING: THE BAS CONTROLLER

SHALL MONITOR THE COMPUTER ROOM SPACE TEMPERATURE AND GENERATE ALARM IF THE SPACE TEMPERATURE GOES OUT ± 2°F FROM NORMAL OPERATING SET POINT INITIALLY AT 72° F (ADJ.) VIA BMS SYSTEM.





GENERAL ELECTRICAL NOTES

- 1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.
- 2. USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED.
- IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM DEVICE FUNCTION
- CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR IS PLANNING ON GROUPING MULTIPLE CIRCUITS IN A SINGLE RACEWAY, THE CONTRCATOR MUST SUBMIT ALL DERATING CALCULATIONS FOR THE PROPOSED INSTALLATION IN ACCORDANCE WITH NEC ARTICLE 310.15 (B) (2) FOR APPROVAL PRIOR TO INSTALLATION. NON APPROVED INSTALLATIONS WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEC AT NO ADDITIONAL COST TO THE OWNER.
- THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF THREE 90° BENDS (270 DEGREES TOTAL) BETWEEN PULL POINTS. WHERE THERE ARE MORE THAN THREE QUARTER BENDS, CONTRACTOR SHALL PROVIDE PULL BOXES
- AS SPECIFIED AND SIZED IN ACCORDANCE WITH NEC. COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL INSTALLATIONS. ALL 6. ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED, IDENTIFIED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING
- ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SERVED BY EMERGENCY BRANCH CIRCUITS SHALL BE "RED" IN COLOR. COVERPLATES SHALL BE LABELED IN ACCORDANCE WITH SPECIFICATIONS TO INDICATE PANELBOARD AND CIRCUIT NO. (IE: ET*LA-3).

ELECTRICAL: LIGHTING FUNCTIONAL TESTING / COMMISSIONING PLAN:

CONTRACTOR SHALL PERFORM THE TASK BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL SUBMIT A DOCUMENTATION DETAILING THE LIGHTING CONTROL SYSTEM, SETTING/CONDITION ACTIONS PERFORMED AND FINAL SETTING CONDITION SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY.

- A. ENSURE ALL LIGHTING FIXTURES FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL. B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY BALLASTS FURNISHED
- C. ENSURE ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL. D. VERIFY ALL WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND OPERATIONAL. E. TEST EACH INDIVIDUAL DEVICE FOR OCCUPANCY SENSOR TYPES OS1, OS2 AND TEST THE LIGHTING CONTROL RELAY PANEL SYSTEM
- F. TEST 10% OF ALL THE DEVICES FOR OCCUPANCY SENSOR TYPE: WSX-PDT-SA. G. VERIFY THE FOLLOWING: 1. ALL SENSORS ARE LOCATED AND AIMED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 2. STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT. 3. DEVICES CONTROL LIGHTING FIXTURES AS INDICATED ON DRAWINGS.
- 4. TIME DELAYS HAVE BEEN SET AS PER CODE AND PER OWNERS DIRECTIONS.
- 5 MOVEMENT IN AD IACENT AREAS AND CYCLING OF HVAC SYSTEMS DOES NOT FALSE TRIGGER
- 6. PHOTOCELL LOCATION AND AIMED PER MANUFACTURERS RECOMMENDATIONS. 7. PROGRAM INTERIOR RELAYS WITH A TIME FUNCTION ACCEPTABLE TO OWNER. 8 PROGRAM INTERIOR OVERRIDE SWITCH WITH A TIME FUNCTIONAL ACCEPTABLE BY OWNER

Light Fixture Schedule

		Voltag				
Tag	Lamp	е	Mounting	Description	Manufacturer	Model
Α	LED (1970LM)(18W)	120V	RECESSED	6"LED OPEN DOWN- LUMINAIRE, CLEAR REFLECTOR, WITH 0-10V DRIVER	LITHONIA	LBR6 ALO2 (1000LM) SWW1 (3500K) AR LSS MWD 80CRI
AE	LED (1970LM)(18W)	120V	RECESSED	SAME AS TYPE 'A' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK	LITHONIA	LBR6 ALO2 (1000LM) SWW1 (3500K) AR LSS MWD 80CRI
В	LED(4000LMLM)(30W)	<varies></varies>	<varies></varies>	LED RECESSED LINEAR FIXTURE UL LISTED, PROVIDE ALL NECESSARY MATERIALS FOR PROPER INSTALLATION	MARK ARCHITECTURAL LIGHTING	S1RD-LOP-4FT-TGT-90CRI-40K-1000LMF-SCT-MIN10-FLL-MVOLT-XXX
BE	LED(4000LMLM)(30W)	120V	RECESSED	LED RECESSED LINEAR FIXTURE UL LISTED, PROVIDE ALL NECESSARY MATERIALS FOR PROPER INSTALLATION	MARK ARCHITECTURAL LIGHTING	S1RD-LOP-4FT-TGT-90CRI-40K-1000LMF-SCT- MIN10-FLL-MVOLT-XXX
С	LED (3649LM)(28W)	120V	LAY-IN	2'X2' LED FLAT PANEL FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA	CPX 2X2 AL07 SWW7 M4 MED LUMEN
CE	LED (3649LM)(28W)	120V	LAY-IN	SAME AS TYPE 'C' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK	LITHONIA	CPX 2X2 AL07 SWW7 M4 MED LUMEN
D	LED (4000LM)(35W)	120V	RECESSED	2'X4' LED FLAT PANEL FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA	CPX 2X4 AL08 SWW7 M2 HIGH LUMEN
DE	LED (4000LM)(35W)	120V	RECESSED	SAME AS TYPE 'D' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK	LITHONIA	CPX 2X4 AL08 SWW7 M2 HIGH LUMEN
Е	INCLUDED	120V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	LITHONIA	ELM2 LED SD
F	LED (1600LM)(32W)	120V	RECESSED	4' LED MODULE FIXTURE WITH REMOTE POWER SUPPLY (CONCEALED ABOVE THE FIXTURE/PER FIXTURE)	T-BAR LED	TBSL-MN-4-24-D-W-XX
G	LED(2000LM)(15W)	120V	RECESSED	6IN LED DOWNLIGHT FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA	LBR6-AL02-(1000LM) SWW1(3500L) AR LAA MWD 80CI
Н	LED (1500LM) (21W)	120V	<varies></varies>	4IN LED CYLINDER STEM MOUNTED, SLIM, DIMMING, UL LISTED	GOTHAM	ICO4PC-40/40-AR-LSS-65D-MVOLT-GZ10-JBX-F CAN-XXCOLOR BY ARCH
HE	LED (1500LM) (21W)	120V	SURFACE	SAME AS TYPE H' EXCEPT WITH EMERGENCY BATTERY PACK	GOTHAM	ICO4PC-40/40-AR-LSS-65D-MVOLT-GZ10-JBX-F CAN-XXCOLOR BY ARCH
J	LED(1000LM)(4000K)(1 0W)	120V	RECESSED	6IN LED WALL WASH DOWNLIGHT, UL LISTED, 0-10V DRIVER	LITHONIA	LDN4-AL02-SWW1-LW4-ARLSSmvolt-UGZ
X1	INCLUDED	120V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY LIGHT COMBO UNIT WITH SELF-DIAGNOSTICS	LITHONIA	LHQM LED _ R SD
AA	LED(2000LM)(15W)	120V	PENDANT	6IN LED DOWNLIGHT FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	ALW	CCP4/WL20-83-40-80-df-n-v10-z-XX- XX-RS50(field cut)
AAE	LED(2000LM)(15W)	120V	PENDANT	6IN LED DOWNLIGHT FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	ALW	CCP4/WL20-83-40-80-df-n-v10-z-XX- XX-RS50(field cut)-EMB
BB	LED (4000LM) (35W)	120V	SURFACE	LED WALL PACK FIXTURE RATED FOR WET LOCATION AND INCLUDE ALL REQUIRED LED DRIVERS.	LITHONIA	WDGE2 LED P3 40K 80CRI VF MVOLT DNAXD
BBE	LED (4000LM) (35W)	120V	SURFACE	SAME AS TYPE 'BB' EXCEPT WITH EMERGENCY BATTERY PACK	LITHONIA	WDGE2 LED P3 40K 80CRI VF MVOLT DNAXD
CC	LED (7000LM)(54W)	120V	20' POLE	ARCHITECTURAL POST TOP AREA LUMINARIE, INTEGRAL PHOTO-CELL, UL LISTED, WET LOCATION RATED, FINISH BY ARCH	LITHONIA	FIXTURE: RADPT P3 40K ASY PE XX MFR.POLE: KW#RSP20-4.0-11-XX-POST-BC
FF	LED(2600LM)(4000K)	120V	SURFACE	LED, DIRECT/INDIRECT, WALL SCONCE FIXTURE, UL LISTED, WET LOCAITONS RATED	ALW	CCU3/WL-13-83-40-40-df-1383-40-40-df-D-v10- 1C-Z-XX- XX-

- 1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER.
- 2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.
- 3.) SUBMIT LIGHT FIXTURES CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.
- 4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.
- 5.) ANCHOR BOLTS SHALL BE OF NON-CORROSIVE MATERIAL (STAINLESS STEEL).
- 6.) ACCEPTABLE MANUFACTURES; LITHONIA, GOTHAM.

INDEX OF SHEETS ELECTRICAL								
Sheet Number	Sheet Name							
EG-101	ELECTRICAL LEGEND							
EDP-101	ELECTRICAL DEMOLITION PLAN							
ES-101	ELECTRICAL SITE LIGHTING PLAN							
EL-101	ELECTRICAL LIGHTING FLOOR PLAN							
EP-101	ELECTRICAL POWER FLOOR PLAN							
ER-101	ELECTRICAL RISER DIAGRAM							
ED-101	ELECTRICAL DETAILS							

APPLICABLE BUILDING CODE

- 2018 International Building Code
- 2018 International Plumbing Electrical Code 2018 International Mechanical Code
- 2018 International Energy Conservation Code
- 2018 International Existing Building Code 2017 National Electrical Code of the National Fire Protection Association
- 2018 International Fire Code 2012 Texas Accessibility Standards

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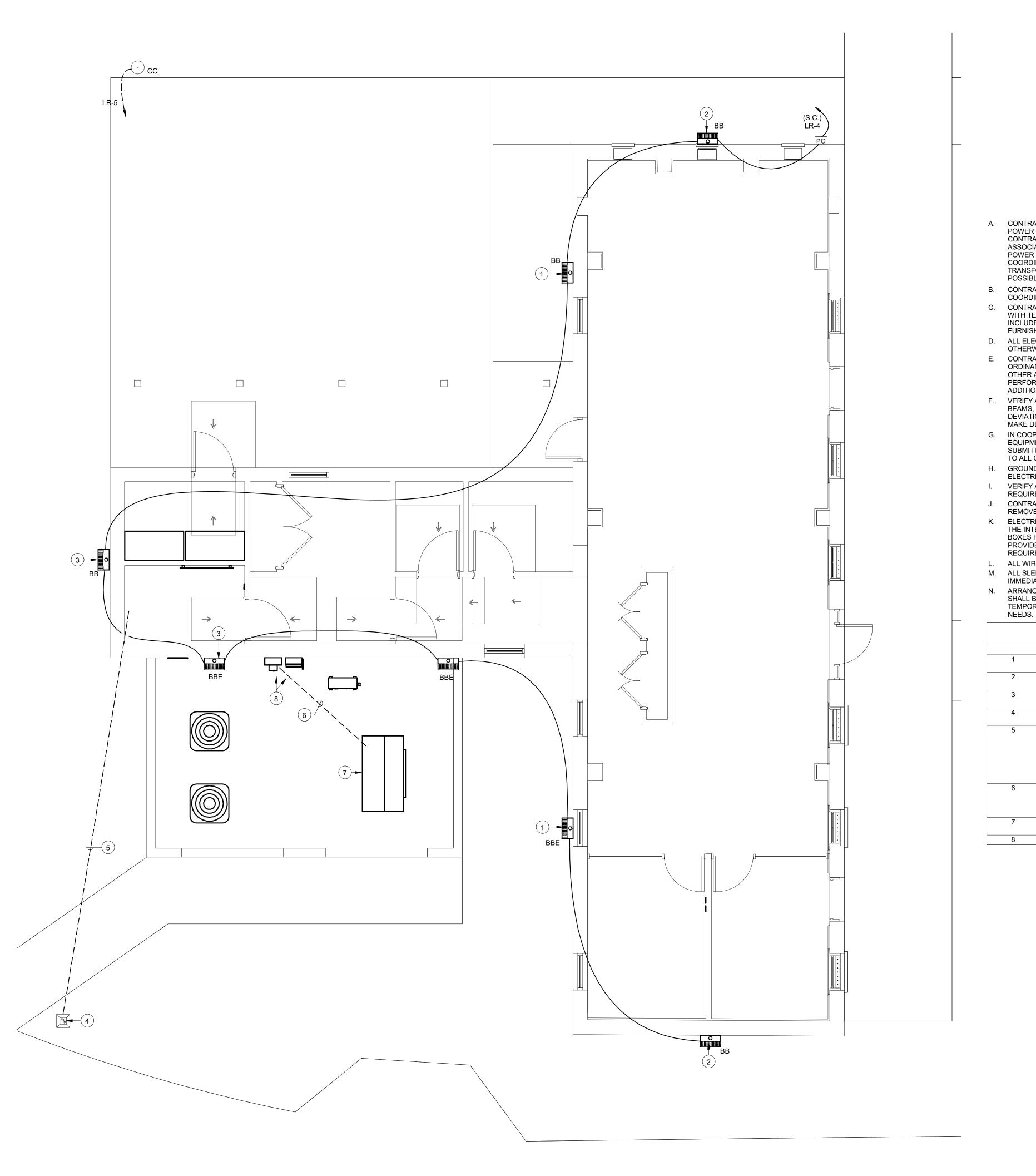
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KEY PLAN

ELECTRICAL LEGEND

Drawn by: Checke Checked by: 23.4.37 Project number: 10/25/2024 Project Issue Date:

EG-101





LAREDO, TX 78045 P: (956) 724-8123 memo@cavazosarch.com

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Lareda Sherida

10/25/2024

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CONTRACTOR TO VERIFY ALL EXISTING MAIN POWER SERVICES AND COORDINATE WITH POWER COMPANY FOR ALL NEW REQUIREMENTS AND ALL COST ASSOCIATED. CONTRACTOR SHALL INCLUDE ANY COST FOR THE NEW TRANSFORMER AND OTHER ASSOCIATED FEES IN BID. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FEES WITH POWER COMPANY AND TO INCLUDE IN BID. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER COMPANY AS SOON THE CONTRACT IS AWARDED TO ORDER TRANSFORMER AND THE RELATED ELECTRICAL SERVICE EQUIPMENT AS SOON AS

GENERAL NOTES - ELECTRICAL SITE

CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING.

CONTRACTOR TO VERIFY ALL EXISTING MAIN TELEPHONE SERVICES AND COORDINATE WITH TELEPHONE COMPANY FOR ALL REQUIREMENTS AND ALL COST ASSOCIATED. INCLUDE ALL COST IN BID. CONDUIT FROM MAIN TELEPHONE RISER SHALL BE

D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS

CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO

VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS

G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER

H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL

VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS

REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE

K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS

ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL

ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION

PRIOR TO ANY WORK. EXISTING WALL PACK TO BE REPLACE WITH NEW AS SCHEDULED AT SAME LOCATION.

NEW TELEPHONE PEDESTAL. VERIFY ALL REQUIREMENTS PRIOR TO ANY

ROUGH-INS.

SERVICE EQUIPPED WITH PULLSTRING, AND TURNED UP AND CAPPED AT BOTH ENDS. DEPTH OF CONDUIT SHALL BE A MINIMUM OF 36". VERIFY ALL REQUIREMENTS WITH LOCAL UTILITIES BEFORE ROUGH-IN. ROUTE TO NEAREST TELEPHONE SERVICE LINE OR AS DIRECTED BY LOCAL TELEPHONE COMPANY. PROVIDE TRENCHING AND BACKFILL AS REQUIRED. COORDINATE EXACT LOCATION AND COST WITH TELEPHONE COMPANY PRIOR TO BID. CONTRACTOR TO PROVIDE AND INSTALL PVC CONDUIT FROM NEW UTILITY

TRANSFORMER TO NEW ELECTRICAL METER AND MAIN SWITCH DISCONNECT PER POWER COMPANY STANDARDS. VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN. REFER TO ELECTRICAL RISER DIAGRAM.

COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.

FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

OTHERWISE NOTED.

ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.

MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.

TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.

ELECTRICAL CODE.

REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.

REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.

L. ALL WIRING SHALL BE COPPER.

IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.

ELECTRICAL KEYNOTES

NEW WALL PACK SHALL MATCH SAME HEIGHT AS EXISTING, FIELD VERIFY

WALL PACK SHALL BE MOUNTED TO MATCH SAME HEIGHT OF NEW WINDOWS, TO THE TOP OF THE LIGHT FIXTURE.

CONTRACTOR TO PROVIDE AND INSTALL (2)-4"PVC CONDUIT FOR TELEPHONE

NEW PAD MOUNT TRANSFORMER AT EXISTING LOCATION ON NEW CONCRETE NEW 120/208V, 3-PHASE, 4W, ELECTRICAL SERVICE METER AND DISCONNECT. Description

DO NOT SCALE DRAWINGS.

Date

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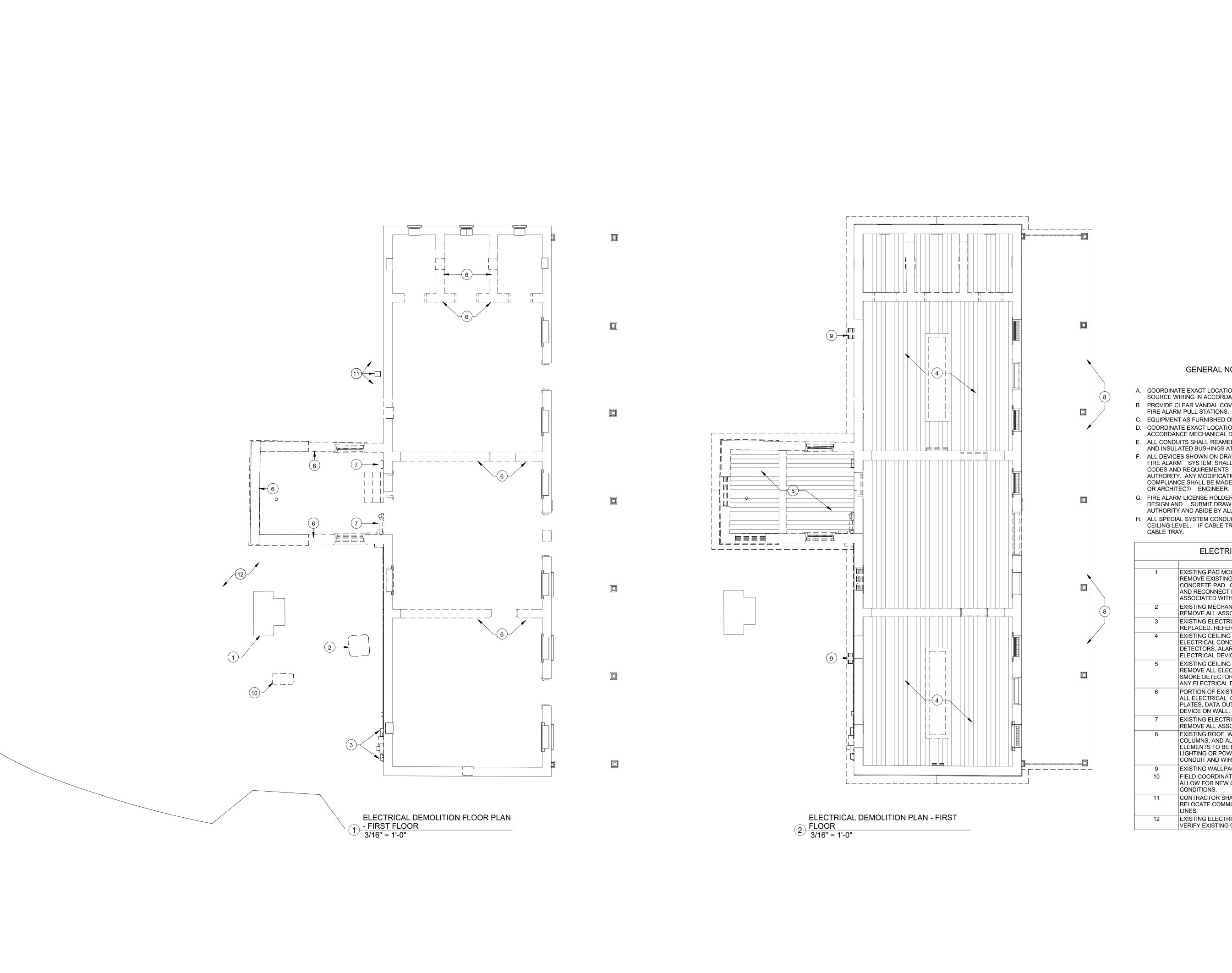
KEY PLAN

ELECTRICAL SITE LIGHTING PLAN

Author Drawn by: Checker Checked by: 23.4.37 Project number: 10/25/2024 Project Issue Date:

ES-101

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





- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. PROVIDE CLEAR VANDAL COVER WITH STOPPER II OPTION FOR ALL
- C. EQUIPMENT AS FURNISHED OF A SINGLE MANUFACTURER. D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN
- ACCORDANCE MECHANICAL DRAWINGS.
- E. ALL CONDUITS SHALL REAMED AND COMPLETED WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.
- F. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM SYSTEM, SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND REQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER
- OR ARCHITECT/ ENGINEER. G. FIRE ALARM LICENSE HOLDER SHALL ASSUME ALL RESPONSIBILITY FOR
- AUTHORITY AND ABIDE BY ALL OTHER REQUIREMENTS PER NFPA. H. ALL SPECIAL SYSTEM CONDUITS SHALL BE STUBBED UP ABOVE THE CEILING LEVEL. IF CABLE TRAY IS PRESENT, STUBBED CONDUITS TO

ELECTRICAL KEYNOTES

- EXISTING PAD MOUNT TRANSFORMER TO BE REPLACED. REMOVE EXISTING CONCRETE PAD AND PRVIDE NEW CONCRETE PAD. COORDINATE WITH AEP TO DICONNECT AND RECONNECT EXISTING UTILITY. INCLUDE ALL COST ASSOCIATED WITH AEP IN BID. EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. REMOVE ALL ASSOCIATED CONDUIT AND WIRING. EXISTING ELECTRICAL SERVICE EQUIPMENT TO BE
- REPLACED. REFER TO REMODEL PLANS. EXISTING CEILING TO BE DEMOLISHED. REMOVE ALL ELECTRICAL CONDUIT, WIRING, SPEAKERS, SMOKE DETECTORS, ALARM DEVICES, LIGHTING, FANS OR ANY ELECTRICAL DEVICE ON CEILING.
- EXISTING CEILING AND FRAMING TO BE DEMOLISHED. REMOVE ALL ELECTRICAL CONDUIT, WIRING, SPEAKERS, SMOKE DETECTORS, ALARM DEVICES, LIGHTING, FANS OR ANY ELECTRICAL DEVICE ON CEILING.
- PORTION OF EXISTING WALL TO BE DEMOLISHED. REMOVE ALL ELECTRICAL CONDUIT, WIRING, RECEPTACLES, WALL PLATES, DATA OUTLETS, FIRE ALARM OR ANY ELECTRICAL DEVICE ON WALL.
- EXISTING ELECTRICAL PANELBOARDS TO BE DEMOLISHED. REMOVE ALL ASSOCIATED CONDUIT AND WIRING. EXISTING ROOF, WOOD SHINGLES, TRIMS, RAMING, COLUMNS, AND ALL ASSOCIATED CONCEALED STRUCTURAL ELEMENTS TO BE DEMOLISHED. REMOVE ALL ELECTRICAL LIGHTING OR POWER DEVICES AND ALL ASSOCIATED
- CONDUIT AND WIRING. EXISTING WALLPACK TO BE DEMOLISHED. FIELD COORDINATE RELOCATION OF EXISTING PULLBOX TO
- ALLOW FOR NEW CONSTRUCTION. FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL COORDINATE W/AT&T TO REMOVE AND
- RELOCATE COMMUNICAITON PULLBOX AND UNDERGROUND EXISTING ELECTRICAL NOT IN USE TO BE REMOVED, FIELD
- VERIFY EXISTING CONDITIONS.



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KEY PLAN

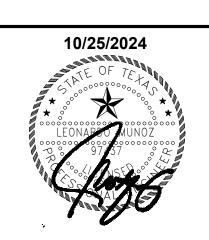
ELECTRICAL DEMOLITION PLAN

Author Drawn by: Checker Checked by: 23.4.37 Project number: 10/25/2024 Project Issue Date:

EDP-101

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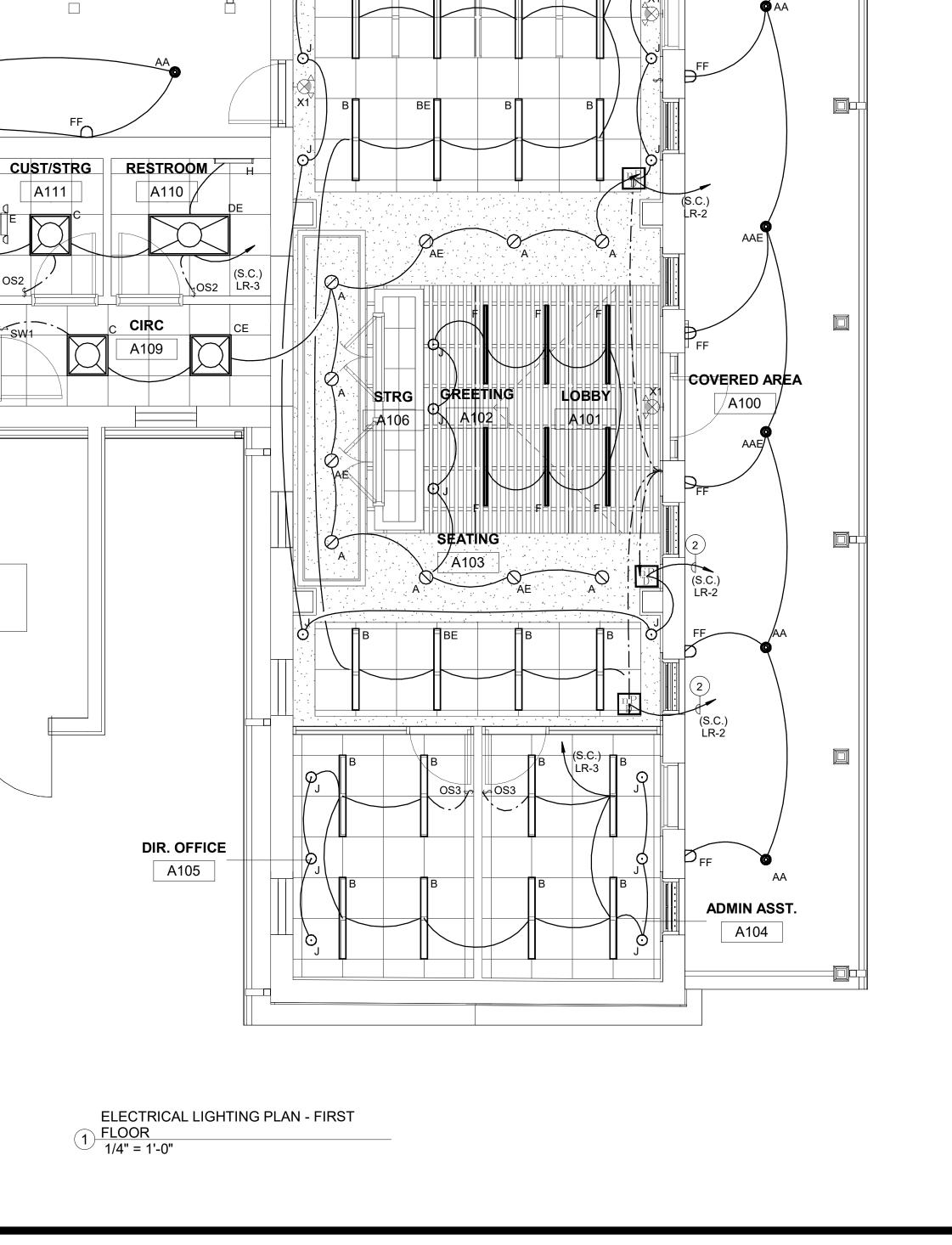
KEY PLAN

ELECTRICAL LIGHTING FLOOR **PLAN**

Author Drawn by: Checker Checked by: 23.4.37 Project number: 10/25/2024 Project Issue Date:

EL-101

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



COMPUTERS

A108

MULTIPURPOSE

(S.C.) LR-4

MECH ROOM

A114

A113

BREAK ROOM

GENERAL NOTES- LIGHTING

- A. F.ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "LR-1". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT
- FIXTURE SCHEDULE. B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR
- TO ORDERING FIXTURES.
- C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.
- D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES. E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

ELECTRICAL KEYNOTES

- 1 120V EXTERIOR LIGHTING PHOTOCELL. LOCATE AS DIRECTED BY MANUFACTURER.
- 2 SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND SPECIFICATION FOR ADDITIONAL INFORMATION.

APPLICABLE BUILDING CODE

- 2018 International Building Code 2018 International Plumbing Electrical Code 2018 International Mechanical Code

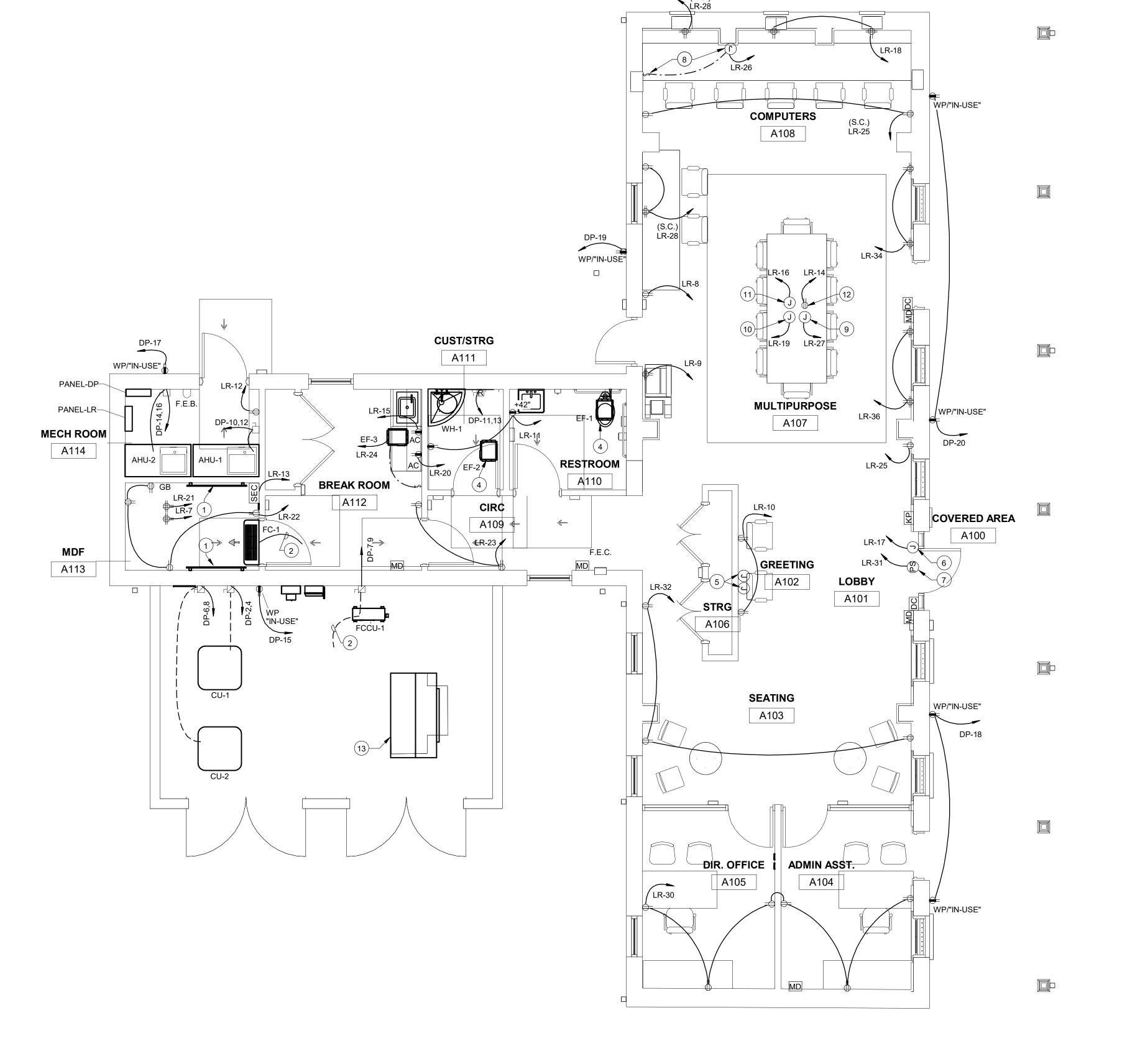
- 2018 International Energy Conservation Code
 2018 International Existing Building Code
 2017 National Electrical Code of the National Fire Protection Association
- 2012 Texas Accessibility Standards

KEY PLAN

ELECTRICAL POWER FLOOR

Drawn by: Checker Checked by: 23.4.37 Project number: 10/25/2024 Project Issue Date:

EP-101



GENERAL NOTES- POWER

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE
- WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C
- EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE. C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS
- REQUIRED. D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
- E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.
- H. REFER TO ALL TECHNOLOGY, AUDIO VISUAL, SECURITY ALL 'T"-SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. INCLUDE ALL COST IN BID.

ELECTRICAL KEYNOTES

- 1 3/4"X8'HX4'W PLYWOOD TELEPHONE BOARD FINISHED ONE SIDE. PROVIDE
- GROUND BAR AND TIE INTO ELECTRICAL GROUNDING SYSTEM VIA WIRE #4.
- 2 INTERLOCK FCCU WITH FC H.V.A.C. EQUIPMENT. WIRING SHALL BE 3#10, 1#10G,
- 4 TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS.
- WIRING SHALL BE 2#12, 1#12G, 1/2"C. 5 PROVIDE JBOX FOR DOOR ACCESS AND PANIC BUTTON. COORDINATE EXACT
- LOCATION WITH OWNER PRIOR TO ANY WORK. 6 PROVIDE JBOX FOR AUTOMATIC DOOR OPENER. COORDINATE EXACT LOCATION
- WITH OWNER PRIOR TO ANY WORK. PROVIDE JBOX FOR DOOR ACCESS CONTROL POWER SUPPLY. COORDINATE
- EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.
- 8 PROVIDE JBOX FOR RECESSED PROJECTOR SCREEN AND CONTROL SWITCH. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.
- 9 PROVIDE CEILING MOUNTED J-BOX FOR SPEAKER AMPLIFIER. COORDINATE EXACT LOCAION PRIOR TO ANY WORK.
- 10 PROVIDE CEILING MOUNTED J-BOX FOR WIRELESS PRESENTAION DEVICE. COORDINATE EXACT LOCAION PRIOR TO ANY WORK.
- 11 PROVIDE CEILING MOUNTED J-BOX FOR DROP COLUMN POWER.
- 12 PROVIDE CEILING MOUNTED JBOX/ RECEPTACLE FOR PROJECTOR. COORDINATE
- EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.
- 13 NEW PAD MOUNT TRANSFORMER AT EXISTING LOCATION ON NEW CONCRETE PAD.

PLAN Author

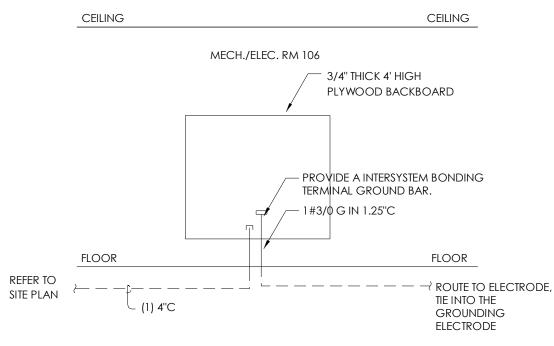
1/4" = 1'-0" Scale:

ELECTRICAL POWER FLOOR PLAN -

Total Allips.	ic	02 A 102 A	130 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Equipment	0 VA	0.00%	0 VA		
HVAC	27880 VA	100.00%	27880 VA	Total Conn. Load:	58854 VA
Lighting - Exterior	400 VA	125.00%	500 VA	Total Est. Demand:	55097 VA
Other	7200 VA	100.00%	7200 VA	Total Conn.:	163 A
Receptacle	18220 VA	77.44%	14110 VA	Total Est. Demand:	153 A
Lighting	1034 VA	125.00%	1293 VA		
EMERGENCY LIGHTING	1200 VA	100.00%	1200 VA		
WATER HEATER	3000 VA	100.00%	3000 VA		
Notes:					

1) PROVIDE INTEGRAL SURGE PROTECTION DEVICE, 100KA.

	Brancl	h Pane	I: PA	NEL-LR												
Location: MECH ROOM A114								Volts:	120/208 W	ye		A.I.C. Rating:				
	Si	upply Froi	m: PAN	EL-DP				Phases:	3			Ma	ins Type: №	ILO		
		Mountin	g: Surfa	ace				Wires:	4			Main	s Rating: 1	00 A		
		Enclosur	re: Type	1								MC	B Rating: 1	00 A		
CKT	Circuit Description	Trip	Poles	Co	mments		Δ.		В		С	Comments	Poles	Trip	Circuit Description	СКТ
LR-1	EMERGENCY LIGHTING	20 A	1	2#10,	I#10G,3/4"C	1200 VA	0 VA					2#12, 1#12G,1/2"C	1	20 A	Lighting	LR-2
LR-3	Lighting	20 A	1	2#12,	I#12G,1/2"C			341 VA	700 VA			2#10, 1#10G,3/4"C	1	20 A	Lighting	LR-4
LR-5	Lighting - Exterior	20 A	1	2#12,	I#12G,1/2"C					400 VA	0 VA		1	20 A	Spare	LR-6
LR-7	Receptacle	20 A	1			200 VA	200 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-8
LR-9	Receptacle	20 A	1	2#12,	I#12G,1/2"C			200 VA	400 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-10
LR-11	Receptacle	20 A	1	2#12,	I#12G,1/2"C					360 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-12
LR-13	Receptacle	20 A	1	2#12,	I#12G,1/2"C	200 VA	200 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-14
LR-15	Receptacle	20 A	1	2#12,	I#12G,1/2"C			180 VA	1200 VA				1	20 A	Other	LR-16
LR-17	Other	20 A	1	2#10,	I#10G,3/4"C					1200 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-18
LR-19	Other	20 A	1			1200 VA	180 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-20
LR-21	Receptacle	20 A	1	2#12,	I#12G,1/2"C			200 VA	800 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-22
LR-23	Receptacle	20 A	1	2#12,	I#12G,1/2"C					400 VA	8 VA	2#12, 1#12G,1/2"C	1	20 A	EF-3	LR-24
LR-25	Receptacle	20 A	1	2#12,	I#12G,1/2"C	600 VA	1200 VA					2#10, 1#10G,3/4"C	1	20 A	HAND DRYERS	LR-26
LR-27	Other	20 A	1					1200 VA	600 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-28
LR-29											1200 VA	2#10, 1#10G,3/4"C	1	20 A	Receptacle	LR-30
LR-31	Other	20 A	1	2#10,	I#10G,3/4"C	1200 VA	600 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-32
LR-33	Spare	20 A	1	,	•			0 VA	400 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-34
LR-35	Spare	20 A	1							0 VA	400 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-36
LR-37	Spare	20 A	1			0 VA	0 VA						1	20 A	Spare	LR-38
LR-39	Spare	20 A	1					0 VA	0 VA				1	20 A	Spare	LR-40
LR-41	Spare	20 A	1							0 VA	0 VA		1	20 A	Spare	LR-42
			⊥ al Load:			603	U VA	621	1 VA	135	0 VA			-		
) A		1 A		6 A					
_oad Classif	fication	Tota	I Amps:		Connected			emand Fact			imated Demand			Panel T	otala	
-Dau Classii HVAC	iication				8 VA	Loau		100.00%	101	ESU	8 VA			raneii	otais	
ighting - Ext	erior				400 VA			125.00%			500 VA		Total Con	n. Load: 1	17489 VA	
Other 7200 V				100.00%			7200 VA		Total Est. I							
Receptacle 7720		7720 VA			100.00%			7720 VA		Tota	I Conn.: 4	19 A				
Lighting 1034 VA		\ .		125.00%			1293 VA		Total Est. I	Demand: 5	50 A					
EMERGENC	Y LIGHTING				1200 VA	<u> </u>		100.00%			1200 VA					
Notes:					1											





	DISCONNECT SCHEDULE
LABEL	DESCRIPTION
AHU-1	100AMP, 1P, 3W, N1, 208V, S/N, N.F., H.D. DISCONNECT
AHU-2	60AMP, 1P, 3W, N1, 208V, S/N, N.F., H.D. DISCONNECT
CU-1	60AMP, 1P, 3W, N3R, 208V, S/N, H.D. FUSED DISCONNECT
CU-2	30AMP, 1P, 3W, N3R, 208V, S/N, H.D. FUSED DISCONNECT
FCCU-1	30AMP, 1P, 3W, N3R, 208V, S/N, H.D. FUSED DISCONNECT
WH-1	30AMP, 1P, 3W, N1,208V, S/N, N.F., H.D. ROTARY TYPE DISCONNECT

NOTE: 1. REFER TO BREAKER SIZE FOR FUSE SIZE. 2. REFER TO PANELBOARD FOR DISCONNECT PHASES AND VOLTAGE. 3. PROVIDE SOLID STATE PHASE LOSS PROTECTION FOR ALL STARTER AND COMBOS.

DESCRIPTION	TOTAL KVA		
LIGHTING	2		
GENERAL POWER	13		
A/C	28		
WATER HEATER	3		
	TOTAL WATTS:	46	KVA
	TOTAL AMPS:	127	AMPS
	TOTAL AMPS+25%:	159	AMPS
	WIRE SIZE AMPS:	200	AMPS

LIGHTING CONTROL SENSORS LEGEND

SYMBOL	ACUITY MODEL NUMBER	CONDUIT	COMMENTS
\$O\$2	WSXAMWO-PDTWH	3/4"C	WALL SENSOR SWITCH, WITH VACANCY
\$OS3	WSXAMWO-PDT-D-WH	3/4"C	WALL SENSOR SWITCH, DIMMING, WITH VACANCY
SW1 \$	nPODMWH	3/4"C	WALL MOUNT SWITCH WITH ON/OFF WITH STAINLESS STEEL PLATE
SW2 \$	nPODMDXWH	3/4"C	WALL MOUNT SWITCH WITH ON/OFF WITH RAISE /LOWER FUNCTION AND WITH STAINLESS STEEL PLATE
NP	nPP16	3/4"C	POWER PACK, 120,240,277, VAC, 16AMPS/POLE, PLENUM RATED, RELAY CONTACT PROTECTION, RJ-45 PORT
NP D	nPP16 D	3/4"C	POWER PACK, 120,240,277, VAC, 16AMPS/POLE, 0-10VDC DIMMING, PLENUM RATED, RELAY CONTACT PROTECTION, RJ-45 PORT

GENERAL NOTES:

A. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTRUCTIONS AND WIRING DIAGRAMS PRIOR TO BID

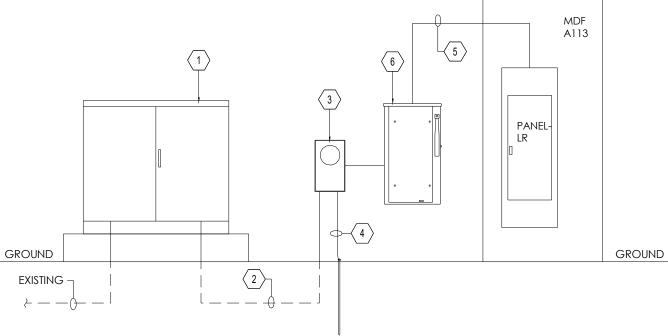
B. CONTRACTOR SHALL INCLUDE ALL COST IN BID FOR AN OPERABLE LIGHTING SYSTEM. NOTES:

- 1. All sensor locations are approximate, refer to manufacturers installation instructions prior to installation.
- 2. Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.
- 3. Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products) recommended placement, and field verification of circuits with in respect to power placement.
- 4. Contractor is responsible for field verification of required number of power packs: One power pack is required for each circuit to be controlled.
- One power pack is required for every three sensors in the zone.
- · If multiple circuits are to be controlled by a sensor, an auxiliary relay can be used in conjunction with the power pack.
- · The maximum number of sensors that can be put on a power pack is to be reduced by one for each slave pack used.
- 5. Sensors mounted over the door must be placed one foot inside the threshold.
- 6. Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout specifications.
- 7. Contractor is responsible for installing equipment in compliance with local code. 8. Refer to manufacturers wiring diagrams manufacturer certified technician to provide a
- 9. NOTE: complete training session to owner representatives. Training shall include but not limited to the following: calibrate sensors settings, programming existing conditions and how to add new circuits, trouble shooting, overview of panel and any request from owner. Training may take days; contractor/manufacturer shall include all cost in bid. Contractor shall notify owner/Architect/Engineer on the day for the training. Technician shall calibrate all sensors to owners desire, include cost for technician to provide service after the job is complete.

- A. PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL
- B. NAME PLATES SHALL BE PROVIDED FOR ALL FLECTRICAL SWITCH GEAR PANEL BOARDS LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC.. BY ELECTRICAL CONTRACTOR.
- C. NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.
- D. COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.
- E. PANELBOARDS WITH MORE THAN 42 CIRCUITS SHALL BE IN ONE CABINET ENCLOSURE, UNLESS OTHERWISE NOTED.
- F. PROVIDE 4"CONCRETE PAD FOR ALL DRY-TYPE TRANSFORMERS.
- G. ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.
- H. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS, INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.

ELECTRICAL SERVICE 480/277V 1000 AMPS OR MORE SHALL INCLUDE GROUND FAULT

- J. ELECTRICAL SERVICE 120V THRU 480V 1000AMPS OR MORE SHALL INCLUDE AN ARC REDUCTION MAINTENANCE SWITCH. COORDINATE EXACT LOCATION OF SUCH SWITCH. PROVIDE TRENCHING AND BACKFILLING FOR ALL UNDERGROUND CONDUITS FOR REGULAR NON-ASPHALT/CONCRETE SURFACE.
- PROVIDE SAWCUT AND PATCHING FOR ALL UNDERGROUND CONDUITS FOR REGULAR ASPHALT OR CONCRETE SURFACE. INCLUDE ALL COST TO PATCH SURFACE TO MATCH



ELECTRICAL RISER

(2) PROVIDE 4#4/0, 3"C.

(5) PROVIDE 4#4/0, 1#6G,3"C.

DIAGRAM KEYED NOTES:

 \langle 1 \rangle NEW POWER COMPANY PAD MOUNT TRANSFORMER 120/208V, 3P, 4W .

(3) NEW ELECTRICAL SERVICE METER 120/208V, 3P, 4W. CONTRACTOR SHALL PROVIDE METER

ALL COST IN BID. COORDINATE ALLOCATION OF METER SOCKET AND WIRING WITH

 \langle 4 \rangle 1#3/0G IN 1"C, 3/4"X10' COPPER CLAD RODS. PROVIDE GROUNDING AS PER NEC

PROVIDE 200AMPS, 208V, 3P, 4W, S/N, N3R, HEAVY DUTY FUSED SERVICE ENTRANCE DISCONNECT, FUSED@200AMPS.

BASE. VERIFY WITH POWER FOR METER BASE REQUIREMENTS PRIOR TO BID DATE. INCLUDE

ELECTRICAL SCHEMATIC DIAGRAM



enter Veterans

college Rd, Laredo Ca Sheridan I

10/25/2024 ×

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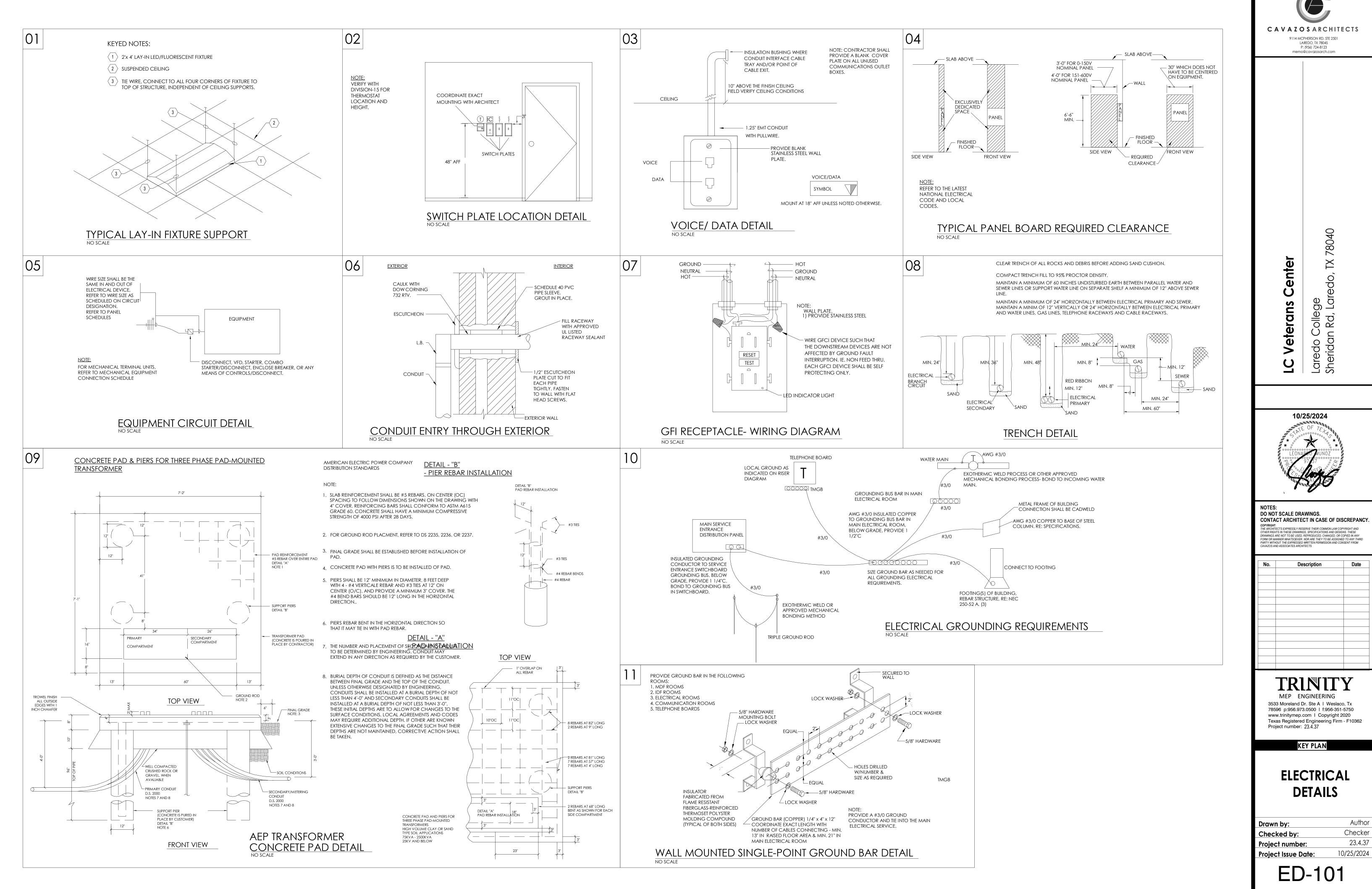
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3533 Moreland Dr. Ste A I Weslaco, Tx 78596 p:956.973.0500 l f:956-351-5750 www.trinitymep.com I Copyright 2020 Texas Registered Engineering Firm - F10362 Project number: 23.4.37

KEY PLAN

ELECTRICAL RISER DIAGRAM

Author Drawn by: Checker Checked by: 23.4.37 Project number: 10/25/2024 **Project Issue Date:**



1/8'' = 1'-0'

Scale:

ABBREV.	<u>DESCRIPTION</u>	PLUMBING GENERAL NOTES: (ALL SHEETS)
AC	ABOVE CEILING	A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLI CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
AFF ASA ASME ASTM	ABOVE FINISHED FLOOR AMERICAN STANDARDS ASSOCIATION AMERICAN SOICIETY OF MECHANICAL ENGINEERS AMERICAN SOCIETY FOR TESTING MATERIALS	B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH'L WORK AND STRUCTURAL MEMBERS. COORDINATE WITH MECHANICAL, ELEC'L AND STRUCTURAL FOR PROPER CLEARANCES.
AWWA	ACID WASTE AMERICAN WATER WORKS ASSOCIATION	C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK.
4VV	ACID VENT	 D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS PER DETAILS AND PER CODE.
BTUH CA CI	BRITISH THERMAL UNIT PER HOUR COMPRESSED AIR CAST IRON	E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.
CO CU	CLEANOUT COPPER	F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS. G. MINIMUM 3" WASTE LINE BELOW FLOOR AND MINIMUM 2" WASTE RISER. LINE ESS NOTED OTHERWISE (LINO)
DN EQ ECO	DOWN EQUAL FLOOR CLEANOUT	UNLESS NOTED OTHERWISE (UNO). H. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS. FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT.
F G	FINISH FLOOR FINISH GRADE	I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.
FH GAL	FIRE HYDRANT GALLON(S)	J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.
SALV	GALVANIZED	K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.
SW IB IP	GREASE WASTE HOSE BIBB HORESPOWER	 L. LABEL ALL PIPING PER ANSI STANDARD. M. PROVIDE PROPER INSULATION ON ALL HOT WATER PIPING, STORM PIPING AND CONDENSATE PIPING.
IIC	NOT IN CONTRACT NOT TO SCALE	n. Provide Shut-off Valves (Stops) on all rough-ins to fixtures and equipments.
nts DC RD RE:4/P6	ON CENTER ROOF DRAIN(S) REFER TO DETAIL 4 DRAWING P-6	O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
RO D	REVERSE OSMOSIS STORM DRAIN	P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
PEC YP	SPECIFICATION TYPICAL	Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.
ig Il Tr	UNDERGROUND UNDERWRITERS LABORATORIES VENT THRU ROOF	R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
//	VACUUM WITH	S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.
WCO YCO	WALL CLEAN OUT YARD CLEAN OUT	T. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING FLEMENTS AND THE WORK OF OTHER TRADES

ELECTRIC WATER HEATER SCHEDULE							
DESIG.	STORAGE GALLONS	RECOVERY G.P.H.	DEGREE RISE °F	WATER TEMP. LEAVING	WATER INLET	WATER OUTLET	REMARKS
WH-1	19.9	20	60°	120°	3/4"	3/4"	RHEEM MODEL NO. EGSP-20, 3KW, 208V/1 , ELECTRIC TANK TYPE. PROVIDE 2 GALLON EXPANSION TANK.
							PROVIDE WITH HOLDRITE MODEL SKU 40-SWHP-WM WALL MOUNTED WATER HEATER PLATFORM

APPLICABLE BUILDING CODE

2018 International Building Code 2018 International Plumbing Electrical Code 2018 International Mechanical Code 2018 International Energy Conservation Code 2018 International Existing Building Code

2017 National Electrical Code of the National Fire Protection Association 2018 International Fire Code 2012 Texas Accessibility Standards

INDEX OF SHEETS PLUMBING				
Sheet Number	Sheet Name			
PG-101	PLUMBING LEGEND			
P-100	PLUMBING DEMOLITION			
P-101	PLUMBING SEWER & VENT FLOOR PLAN			
P-201	PLUMBING DOMESTIC WATER FLOOR PLAN			
PD-101	PLUMBING DETAILS			

ELEMENTS AND THE WORK OF OTHER TRADES.

AN AUTOMATIC TRAP PRIMER, UNO.

U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE	===	DOMESTIC COLD WATER
	CHECK VALVE	====	DOMESTIC HOT WATER
	GATE VALVE	====	DOMESTIC HOT WATER RETURN
	UNION	= = =	SANITARY SEWER VENT
	DIRECTION OF FLOW		SANITARY WASTE LINE
	WALL CLEANOUT	140°	140° HOT WATER
——ф	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW
− ⊋ (E	FLOOR SINK		BRANCH - TOP CONNECTION
	FLOOR DRAIN	+0	PIPE RISER
	WALL HYDRANT OR HOSE BIBB		PIPE DROP
			POINT OF CONNECTION

PLU	MBING SY	MBOL L	EGEND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE	===	DOMESTIC COLD WATER
	CHECK VALVE	====	DOMESTIC HOT WATER
	GATE VALVE	====	DOMESTIC HOT WATER RETURN
	UNION	_ = =	SANITARY SEWER VENT
	DIRECTION OF FLOW		Sanitary waste line
\dashv	WALL CLEANOUT	140°	140° HOT WATER
——ф	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW
— 3 @	FLOOR SINK	- Î 	BRANCH - TOP CONNECTION
	FLOOR DRAIN	+0	PIPE RISER
	WALL HYDRANT OR HOSE BIBB	C+	PIPE DROP
			POINT OF CONNECTION

NOTE: 1. NOT ALL SYMBOLS USED ON THIS PROJECT

- 2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF WATER CLOSET OR DOOR OPENING.
- 3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

PLUMBING PIPING MATERIAL:

- 1. SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE: SCHEDULE 40 PVC
- 2. SANITARY DRAIN OUTSIDE BUILDING: SCHEDULE 40 PVC
- 3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE:
- 4. SANITARY DRAIN & VENT IN PLENUM CEILING:
- NO-HUB CAST IRON
- 5. ACID WASTE PIPING: FR POLYPROPYLENE

SCHEDULE 40 PVC

- 6. ACID VENT IN PLENUM CEILING:
- 7. DOMESTIC HOT & COLD WATER:

COPPER, TYPE "L" HARD DRAWN

- 8. DOMESTIC WATER BELOW GRADE: COPPER, TYPE "K" SOFT ANNEALED
- 8. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING 2" SIZE AND SMALLER: COPPER, TYPE "L" HARD DRAWN
- 9. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING OVER 2" SIZE: SDR 26 CLASS 160 PVC

				PLUM	MBING	FIXTURE SCHEDULE
	CONNECTION SIZE			ON SIZE		
MARK	FIXTURE TYPE	San. Sewer	Vent	Cold Water	Hot Water	DESCRIPTION
WC-1	WATER CLOSET FLOOR MOUNTED ADA	4"	2"	1"	-	KOHLER "HIGHCLIFF ULTRA" MODEL NO. K-96057, FLOOR MOUNTED WATER CLOSET, WITH ELONGATED RIM, 16-5/8" RIM HEIGHT, VITREOUS CHINA, SIPHON JET FLUSH ACTION 10"- 12" ROUGH IN, WITH SLOAN "ROYAL" MANUAL FLUSHOMETER VALVE MODEL NUMBER 111-1.28, FLOW RATE (1.28 GPF). INCLUDES 1" TOP SPUD AND 2 BOLTS CAPS. COMPLETE WITH BEMIS MODEL NO. 1955SSTFR, OPEN FRONT SEAT LESS COVER. FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF FIXTURE.
UR-1	URINAL (STANDARD & HANDICAPPED) REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	3/4"	-	KOHLER "DEXTER" MODEL NO. K-5016-ER, SIPHON JET WALL HUNG URINAL. VITREOUS CHINA, 1 GPF FLUSH OR LESS, COMPACT DESIGN, WITH INTEGRAL TRAP, 3/4" TOP INLET, 14" LIP, INCLUDES WALL HANGERS, 2" IPS OUTLET FLANGE AND RUBBER GASKET. WITH SLOAN "ROYAL" MANUAL URINAL FLUSHOMETER VALVE MODEL NUMBER 186-0.5, FLOW RATE (0.5 GPF). INCLUDES 3/4" TOP SPUD AND 2 BOLTS CAPS SF PROVIDE ZURN CARRIER SYSTEM MODEL NO. Z-1221.
L-1	LAVATORY WALL HUNG ADA REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	1/2"	KHOLAR "BRENHAM" MODEL NO. K-1997-4 (21x19) WALL HUNG LAVATORY. WITH OVERFLOW. INCLUDES WALL HANGER. VITREOUS CHINA, WITH 4-INCH CENTER FAUCET HOLES. PROVIDE FAUCET EQUAL TO MOEN MODEL 8413F05, SINGLE HANDLE, FLOW RATE (0.5 GPM). VANDAL RESISTANT, ADA APPROVED. PROVIDE ANTI-ROTATION DECKPLATE MODEL NO. 99550. PROVIDE PROTECTIVE COVER SHIELD ZURN AQUASPEC PART MODEL NO. Z6900-VG ON P-TRAP AND STOPS. PROVIDE ZURN CARRIER SYSTEM MODEL: Z1231 PROVIDE P-TRAP: 17 GAUGE CHROME DEARBORN BRAND PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV), WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
SK-1	SINGLE-COMPARTMENT SINK ADA COMPLIANT	2"	2"	1/2"	1/2"	ELKAY LRAD2219-55-3 18-GAUGE, FULLY UNDERCOATED, STAINLESS STEEL, SINGLE-BOWL, THREE FAUCET HOLE, OFF-CENTER DRAIN, ADA COMPLIANT, 3-1/2-INCH OUTLET. FAUCET: ELKAY LKD2442-BH SERIES, FLOW RATE (2.2 GPM) . LEDGE MOUNTED, 8-INCH CENTER-SET ESCUTCHEON, TWO WRIST BLADE HANDLES, 8-INCH GOOSENECK SPOUT. SUPPLY: MCGUIRE 2167 SERIES. TRAP: MCGUIRE 8912 SERIES. STRAINER AND TAILPIECE: MCGUIRE 151 SERIES. BASKET TYPE.
MS-1	mop sink	3"	2"	1/2"	1/2"	FIAT MODEL NO. TSB100, 24"X24"X12" TERRAZO MOP SINK, COMPLETE WITH FAUCET MODEL 830-AA, MOP SINK SHALL INCLUDE ALL HOSE BRACKETS, HOSE, AND MOP HANGER. WITH 3" DRAIN WITH STRAINER & DEEP SEAL P-TRAP. PROVIDE WALL GUARD MSG2424.
HB-1	HOSE BIB EXTERIOR GENERAL USE	-	-	3/4"	-	MILD TEMPERATURE WALL HYDRANT SHALL BE WADE MODEL 8600MT-175 3/4" INLET WITH BRONZE CASING, BRONZE FACE AND STRAIGHT INLET CONNECTION WITH INTEGRAL BACKFLOW PREVENTER.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	3/4"	3/4"	BRADLEY THERMOSTATIC MIXING VALVE MODEL \$59-2025-TMV25 SURFACE. PROVIDE WITH CABINET TO BE EQUAL TO BRADLEY CABINET MODEL CAB-TMV25-R-S-T-P-SS-W SURFACE MOUNT STAINLESS STEEL CABINET.
FD-1	restroom floor drain	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-6A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
FD-2	FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-7E2-Y, COATED CAST IRON BODY WITH CLAMP RING, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, ADJUSTABLE NIKALOY FUNNEL STRAINER.
FCO	FLOOR CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C1100-R-1" ADJUSTABLE FLOOR CLEANOUT, COMPLETE WITH NICKEL BRONZE TOP ASSEMBLY, LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, AND PRIMARY GASKET SEAL.
YCO	YARD CLEANOUT		AS NOTED ON PLANS			MIFAB MODEL "C-1220" LACQUERED CAST IRON CLEANOUT, THREADED BRONZE PLUG FOR AIR TIGHT SEAL AND STANDARD REINFORCED SATIN FINISHED NICKEL BRONZE ADJUSTABLE TOP ASSEMBLY.
WCO	WALL CLEANOUT		AS NOTED C	ON PLANS		MIFAB MODEL "C1430-RD" CAST BRONZE CLEANOUT PLUG. COMPLETE WITH STAINLESS STEEL WALL ACCESS COVER AND ANCHOR SCREW. MOUNT 24" A.F.F.

- 1.) INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX.
- 2.) PROVIDE SINGLE FIXTURE WATER HAMMER ARRESTORS EQUAL TO MINI-RESTER, HYDRA-RESTER SIOUX CHIEF. FOR ALL PLUMBING FIXTURES IN THE WATER SUPPLY SYSTEM.
- 3.) ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.



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10/25/2024

lo.	Description	Date
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Texas Registered Engineering Firm - F10362
Project number: 23.4.37

KEY PLAN

PLUMBING **LEGEND**

Drawn by: Checked by: 23.4.37 Project number: 10/25/2024 ≥ Project Issue Date:

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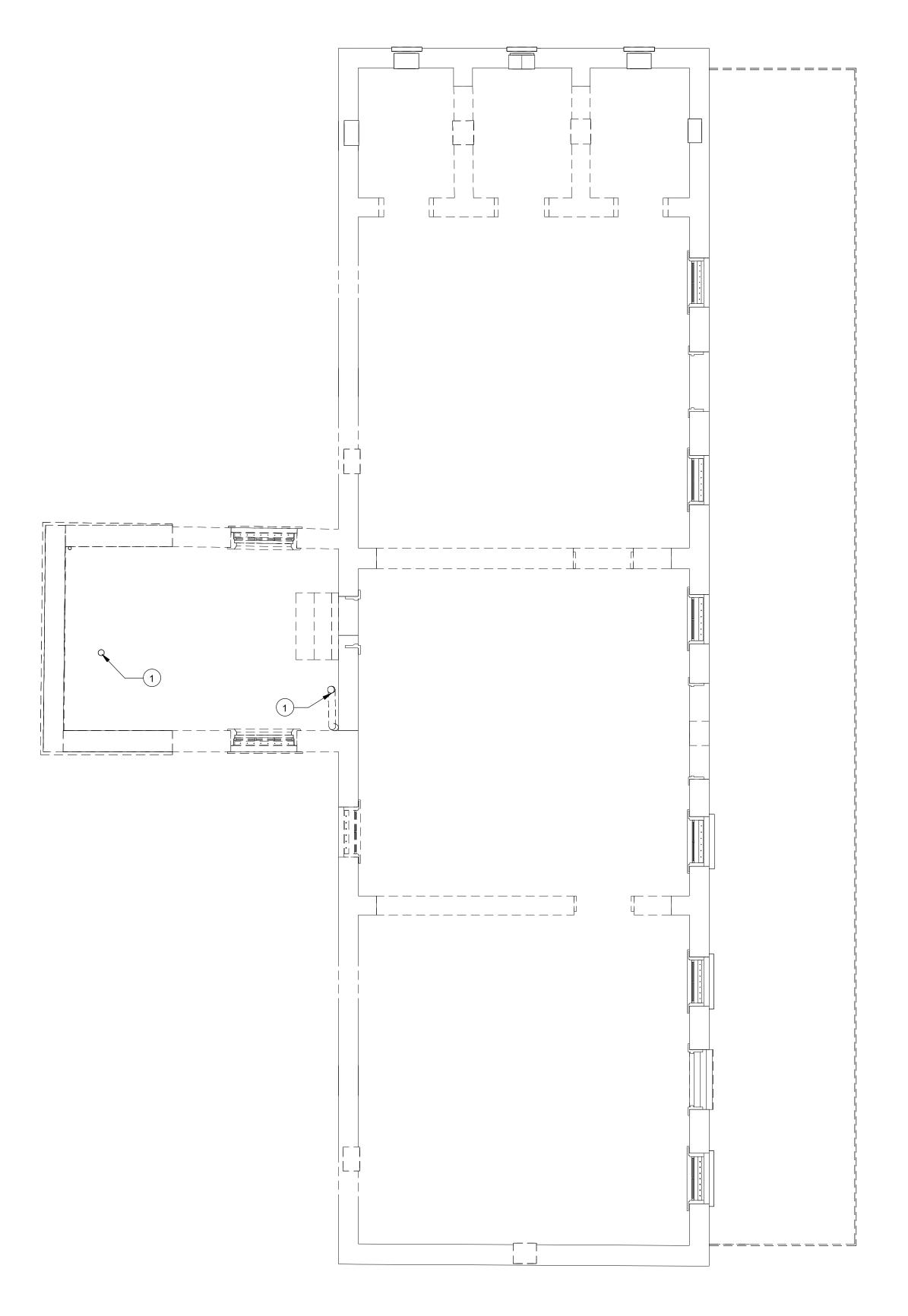
KEY PLAN

PLUMBING DEMOLITION

Drawn by: JV
Checked by: JG
Project number: 23.4.37
Project Issue Date: 10/25/2024

P-100

Scale: As indicated



1 PLUMBING DEMOLITION - FIRST FLOOR 1/4" = 1'-0"

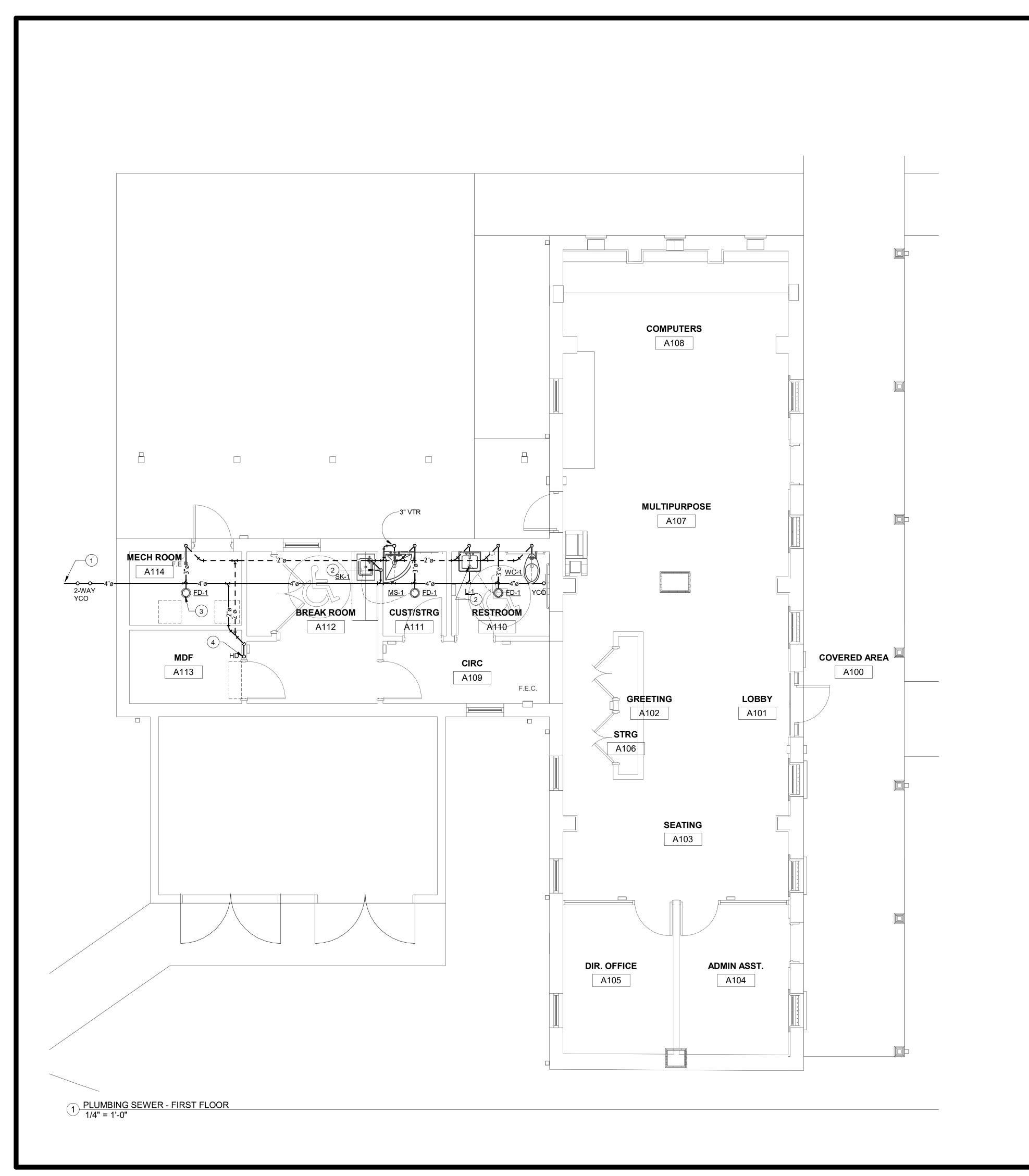
GENERAL DEMOLITION NOTES

- A. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES INCLUDING THOSE PUBLISHED BY OSHA AND EPA.
- B. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL IDENTIFY/ VERIFY ALL WATER, GAS AND SANITARY LINES BEFORE STARTING ANY DEMOLITION WORK. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK.
- C. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF PLUMBING FIXTURES AND EQUIPMENT AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- D. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCH'L DOCUMENTS IN ADDITION TO THE DIVISION 15 AND 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- E. WHERE FIXTURES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED SERVICES SHALL BE CAPPED AT A CONCEALED LOCATION.
- F. WHERE FIXTURES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED SERVICES SHALL BE REMOVED AND CAPPED. NEW MATERIALS SHALL BE USED TO EXTEND SERVICES TO NEW LOCATION.
- G. WHERE SERVICES RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE TO REMAIN UNDISTURBED, SERVICES SHALL BE CAPPED AT CONCEALED LOCATION AND ABANDONED
- H. WHERE THE REMOVAL OF FIXTURES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICES SHALL BE EXTENDED TO THE DOWNSTREAM FIXTURES OR EQUIPMENT SO THAT THE FIXTURES OR EQUIPMENT IS LEFT IN OPERATING CONDITION.
- I. COORDINATE DEMOLITION OF DIVISION 1.5 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- J. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- K. WHERE EXISTING FIXTURE OR EQPT IS TO BE RELOCATED, BE CAUTIOUS TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- L. EXISTING FIXTURES OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- M. ALL DEVICES WITH AN (E) SYMBOL ARE EXISTING TO REMAIN. (UNO).

 N. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A L WHETHER SHOWN ON DRAWINGS OR NOT.
- O. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.

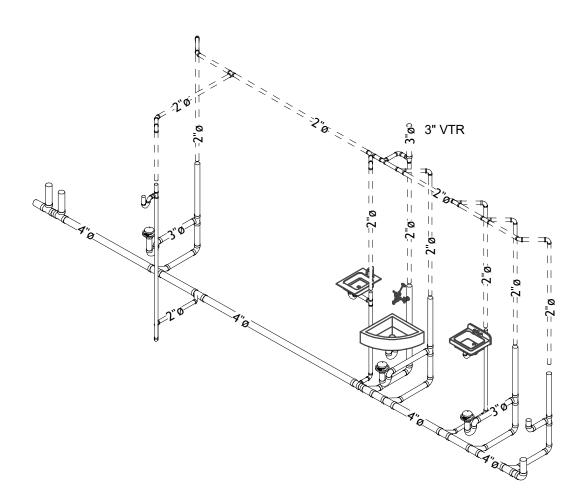
PLUMBING KEYED NOTES

REMOVE EXISTING PLUMBING FIXTURES AND HARDWARE. AREA TO BE PREP FOR NEW PLUMBING FIXTURES.





- CONNECT NEW SANITARY SEWER LINE TO EXISTING SANITARY SEWER. FIELD VERIFY SIZE, DIRECTION OF FLOW AND LOCATION OF EXISTING SANITARY SEWER
- 1/2" COPPER FROM TRAP PRIMER PROVIDE LAVATORY WITH "PRIME-EZE" TRAP PRIMER BY JR SMITH. REFER TO DETAIL 08/PD01. COVER WITH SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.
- FLOOR DRAIN FOR CONDENSATE FROM AHU's. COORDINATE LOCATION WITH HVAC CONTRACTOR.
- PROVIDE 3" HUB DRAIN FOR FAN COIL UNIT, WITH DEEP EAL P-TRAP, IN WALL, ALONG WITH DRAIN KIT, TRAP PRIMER AND 8X8 UNIVERAL ACCESS DOOR EQUAL TO MIFAB SERIES UA. REFER TO DETAIL 13/PD01.



2 PLUMBING SEWER & VENT RISER

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PLUMBING

KEY PLAN

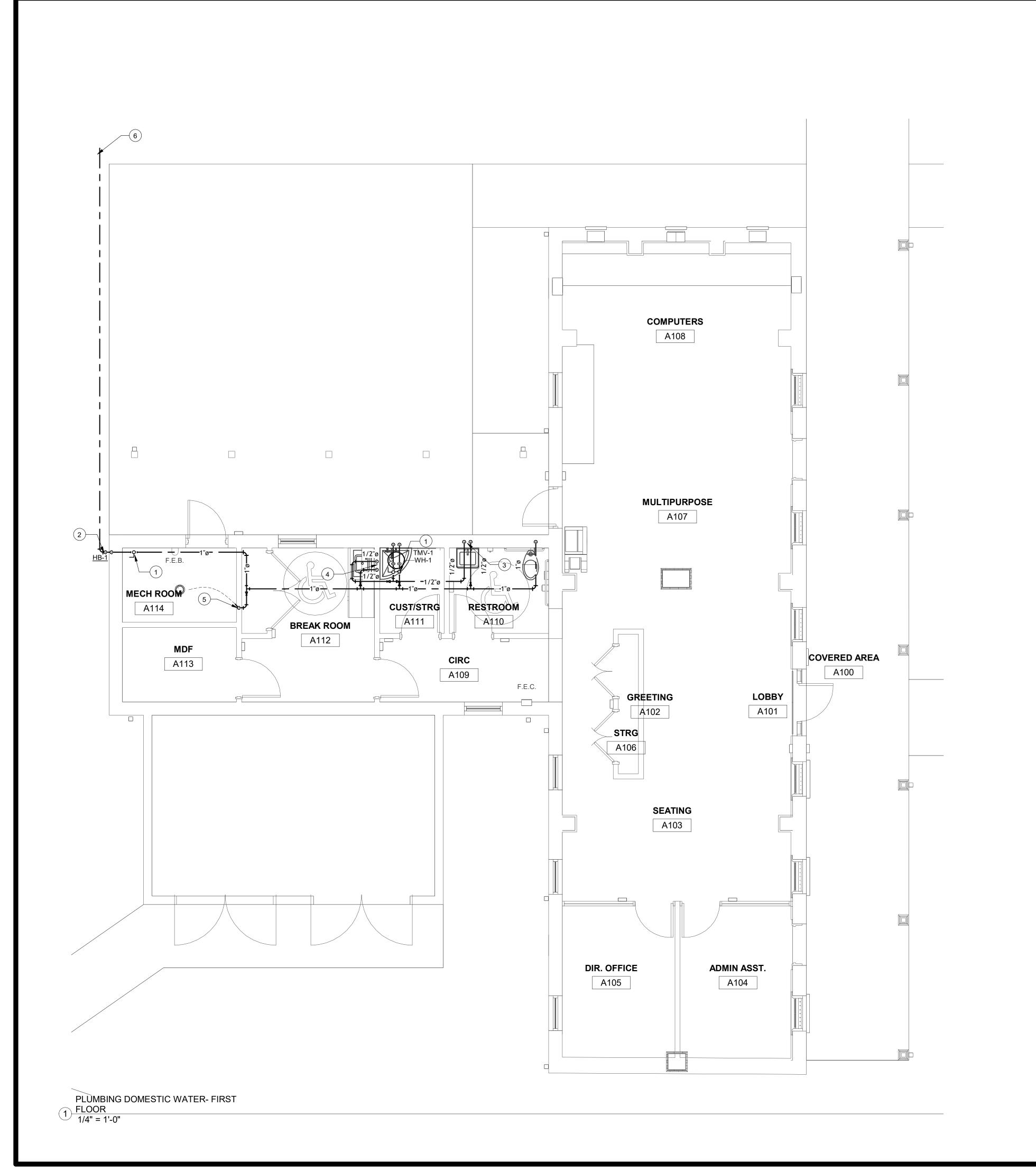
SEWER & VENT FLOOR PLAN

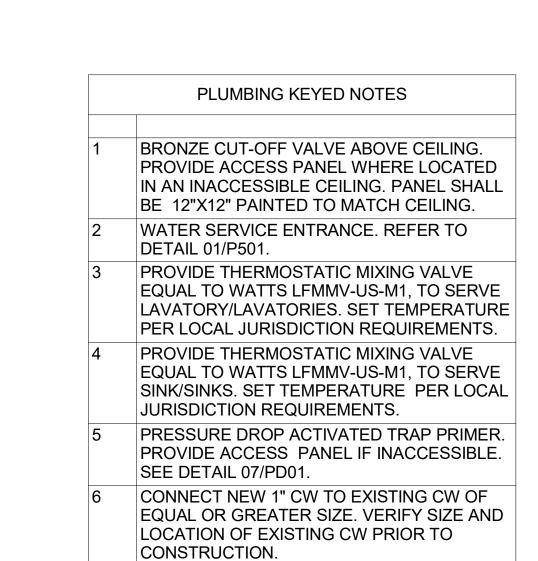
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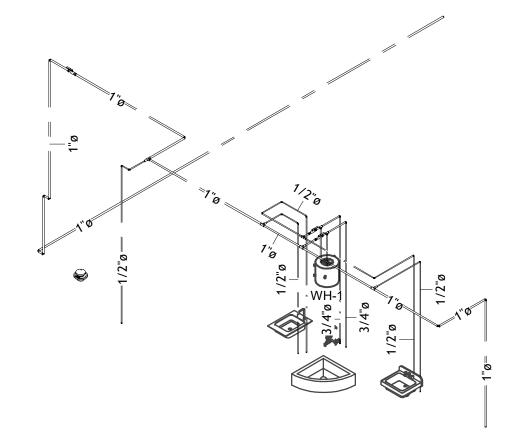
23.4.37 10/25/2024

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







2 PLUMBING DOMESTIC WATER RISER



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PLUMBING
DOMESTIC
WATER FLOOR
PLAN

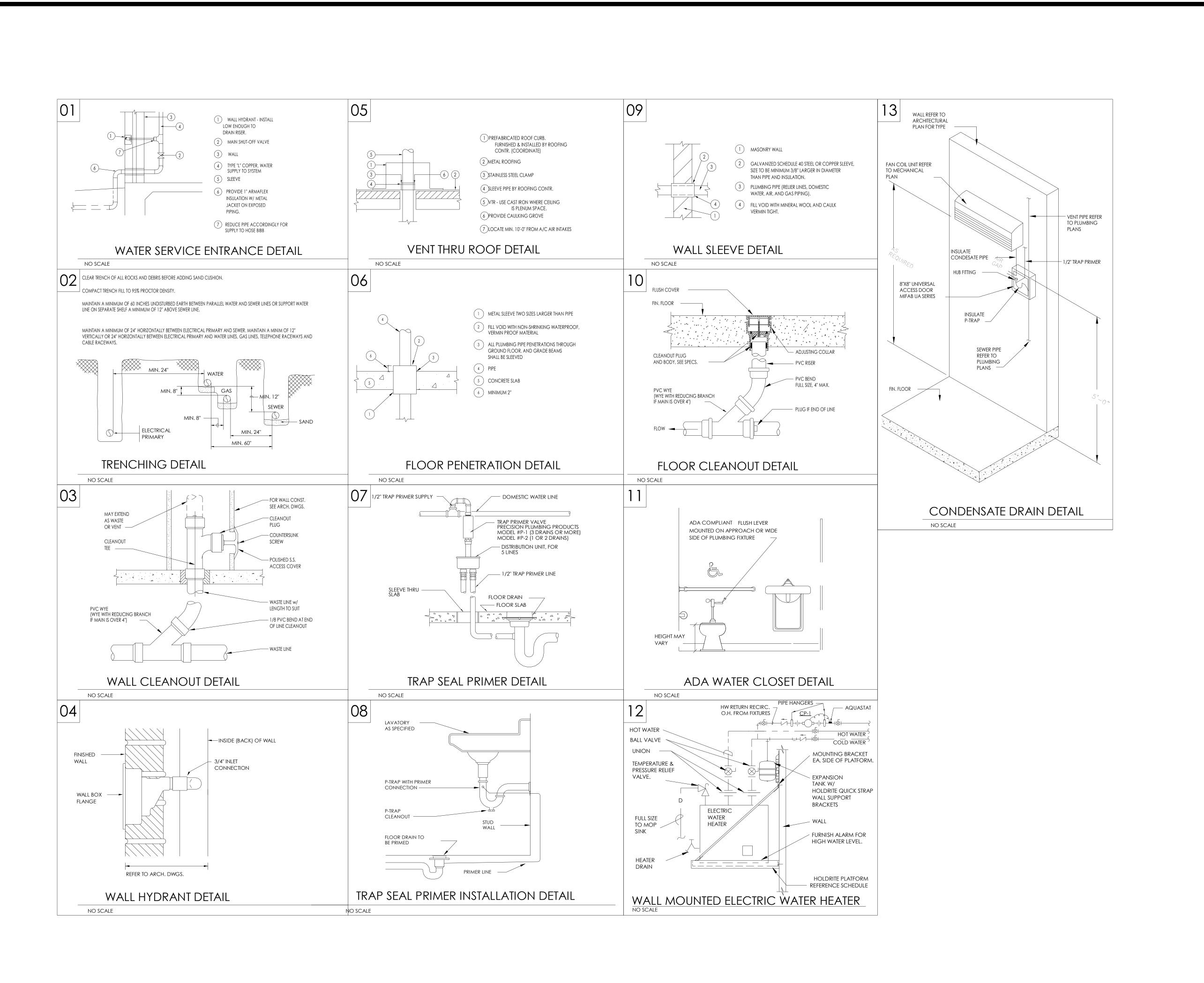
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KEY PLAN

PLUMBING DETAILS

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PD-101

Scale:

1/8" = 1'-0"

TECHNOLOGY SYMBOLS & LEGEND

VOICE SYMBOLS

	VOICE STIVIBULS
▼	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▼ ^X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
₩	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
▼ X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
*	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▼ ^X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
×	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS PER LOCATION.
▼ ^W	SINGLE VOICE OUTLET FOR WALL-MOUNTED PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.

DATA SYMBOLS

∇	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▽ ^X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
₹	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
∀X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
Š	POWER/COMMUNICATIONS POLE WITH A SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
Δ _x	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF DATA OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
abla	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X ☑	DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
₩ ▽	SINGLE DATA OUTLET FOR WALL-MOUNTED IP PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.
-\$-	SINGLE ABOVE CEILING DATA OUTLET, CABLE TYPE AS SPECIFIED.
-\$ ^x	ABOVE CEILING DATA OUTLET, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.

ROUGH-IN & MISC. SYMBOLS

R	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
₩	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
₩.	POWER POLE WITH ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
R	ROUGH-IN LOCATION, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
WAP	WIRELESS ACCESS POINT. EQUIPMENT AS SPECIFIED.

VOICE/DATA SYMBOLS

	VOICE/DATA SYMBOLS
▼	SINGLE VOICE & SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X Y	VOICE & DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS PER LOCATION.
₹	SINGLE VOICE & SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X Y	VOICE & DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF VOICE OUTLETS AND Y = NUMBER OF DATA OUTLETS PER LOCATION AS INDICATED.
¥	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET AND SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X Y	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
V	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X Y	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS PER LOCATION.

FIBER OPTIC SYMBOLS

\triangledown	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
₩ ^X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
₩	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
₩ ^X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
8	POWER/COMMUNICATIONS POLE WITH A SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
\mathbb{A}_{X}	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF FIBER OPTIC OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
$\overline{\mathbb{V}}$	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X ▼	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.

CABLE PLANT & RISER DIAGRAM

	MAINTENANCE HOLE, SIZE & TYPE AS SPECIFIED.
	PULLBOX, SIZE AND TYPE AS SPECIFIED.
UGC	DIRECT BURIED COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
AER	AERIAL COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
	CONDUIT, SIZE AND TYPE AS SPECIFIED.

GENERAL SYMBOLS

DRAWING TITLE

# DRAWING TITLE SHEET SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
<u>/</u> #\	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION

ABBREVIATIONS

1		
	A.F.F.	ABOVE FINISHED FLOOR
	A.F.G.	ABOVE FINISHED GRADE
	AER	AERIAL
	DEMARC	DEMARCATION POINT
	EMT	ELECTRIC METALLIC TUBE
	F.O.C.	FIBER OPTIC CABLE
	GIP	GALVANIZED IRON PIPE
	HE	PA/INTERCOM HEAD-END
	IMC	INTERMEDIATE METAL CONDUIT
	ISP	INSIDE CABLE PLANT
	IDF	INTERMEDIATE DISTRIBUTION FRAME
	MDF	MAIN DISTRIBUTION FRAME
	MH	MAINTENANCE HOLE
	MM	MULTIMODE
	OSP	OUTSIDE CABLE PLANT
	РВ	PULLBOX
	PR	PAIR
	PVC	POLYVINYL CHLORIDE
	RSC	RIGID STEEL CONDUIT
	SM	SINGLE MODE
	SP	SERVICE PROVIDER
	STP	SHIELDED TWISTED PAIR
	ТВ	TERMINAL BLOCK
	TR	TELECOMMUNICATION REGION
	UGC	UNDERGROUND COMMUNICATION
	UON	UNLESS OTHERWISE NOTED
	UTP	UNSHIELDED TWISTED PAIR

NOTES

- CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK
- SCALE OF TECHNOLOGY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
- TECHNOLOGY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
- ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT.

 DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.

INDEX OF DRAWINGS

T000	TECHNOLOGY SYMBOLS & LEGEND	
T001	TECHNOLOGY SITE PLAN	
T100	TECHNOLOGY DEMO FLOOR PLAN	
T101	TECHNOLOGY 1st FLOOR PLAN	
T301	TECHNOLOGY ENLARGED VIEWS	
T401	TECHNOLOGY TYPICAL DETAILS	
T402	TECHNOLOGY TYPICAL DETAILS	

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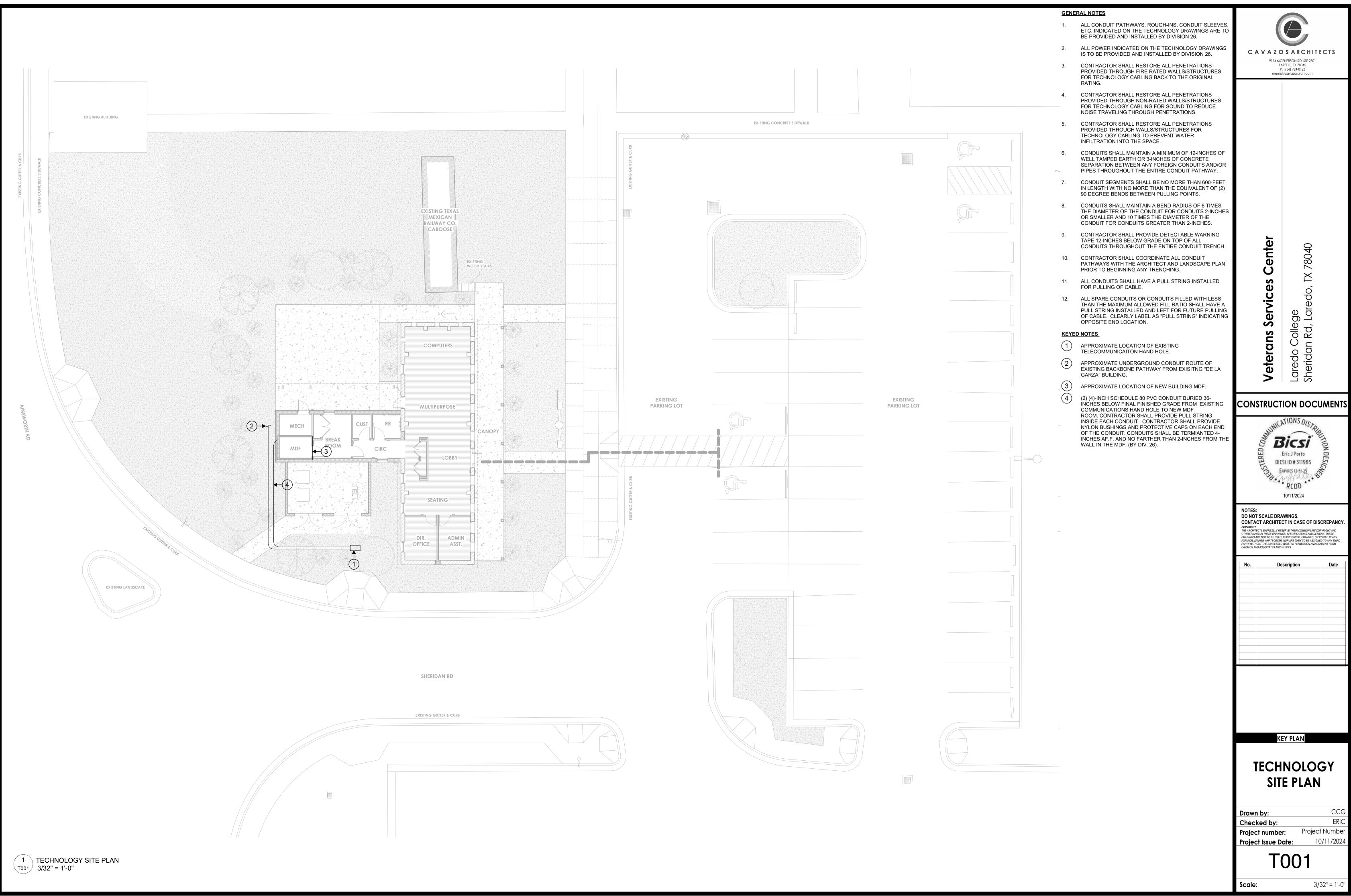
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No.	Description	Date

TECHNOLOGY
SYMBOLS &

LEGENDDrawn by:CCGChecked by:ERICProject number:Project Number

Project number: Project Normber: 10/11/202



GENERAL NOTES

- 1. ALL DATA, VOICE, VIDEO AND SECURITY SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES DURING BUSINESS HOURS. ANY SYSTEM DOWNTIME SHALL BE SCHEDULED WITH THE ARCHITECT/ENGINEER AND OWNER AT LEAST TEN (10) WORKING DAYS IN ADVANCE. CONTRACTOR SHALL DEVELOP A PHASING PLAN AND SCHEDULE OF ANY REQUIRED SYSTEM DOWNTIME FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER AND OWNER PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- 2. THE EQUIPMENT ROOMS AND TELECOM ROOMS ENVIRONMENTAL CONTROLS SHALL BE MAINTAINED AT ALL TIMES. THE EQUIPMENT ROOMS AND TELECOM ROOMS TEMPERATURE SHALL REMAIN BETWEEN 60 70 DEGREES F WITH RELATIVE HUMIDITY OF 30% 50% NON-CONDENSING. THE TEMPERATURE RANGE OF THE EQUIPMENT ROOMS AND TELECOM ROOMS SHALL BE MAINTAINED BETWEEN + 9 DEGREES F.
- 3. OWNER SHALL BE RESPONSIBLE FOR POWER DOWN AND START-UP OF ALL DATA, VOICE, VIDEO AND SECURITY SYSTEMS. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT/ENGINEER AND OWNER AND PROVIDE A MINIMUM OF TEN (10) WORKING DAYS NOTICE FOR SCHEDULING OF ANY REQUIRED DOWNTIME.
- 4. ALL EXISTING CONDITIONS AS SHOWN ARE APPROXIMATELY CORRECT. NOT ALL EXISTING CONDITIONS ARE SHOWN. CONTRACTOR SHALL VISIT THE SITE TO FIELD VERIFY ALL EXISTING CONDITIONS AS REQUIRED TO PROPERLY PROVIDE A BID/PROPOSAL AND PERFORM ALL REQUIRED WORK.
- 5. ALL EXISTING FIBER BACKBONE, HORIZONTAL DATA CABLE, HORIZONTAL VOICE CABLE AND J-HOOK PATHWAYS ARE TO BE REMOVED IN THEIR ENTIRETY AS INDICATED ON TD-SERIES DRAWINGS. ALL OTHER FIBER OPTIC CABLE AND COPPER BACKBONE ARE CRITICAL COMPONENTS FOR THE CAMPUS AND THE DISTRICT FIBER RING AND SHALL REMAIN PROTECTED AND OPERATIONAL AT ALL TIMES.
- 6. ALL EXISTING COAXIAL CABLE (.500 / RG-6 / RG-59) FOR CATV IS TO REMAIN IN PLACE AND OPERATIONAL.
- 7. ALL EXISTING WIRELESS ACCESS POINTS ARE TO BE REMOVED AND RETURNED TO OWNER. CONTRACTOR SHALL RE-INSTALL ALL EXISTING AND NEW WIRELESS ACCESS POINTS AT COMPLETION OF PROJECT.
- 8. COORDINATE REMOVAL OF EXISTING CAMERA WITH OWNER/ARCHITECT DURING CONSTRUCTION.

KEYED NOTES

EXISTING DATA/VOICE/WIRELESS ACCESS POINT OUTLET TO BE REMOVED. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL 4-PAIR CABLES AND WORKSTATION CONNECTING HARDWARE TERMINATED AT THIS LOCATION. IF LOCATION IS NOT RE-USED, CONTRACTOR SHALL SUPPLY AND INSTALL BLANK COVER. CONTRACTOR IS TO REMOVE EACH CABLE TO BE DEMOLISHED FROM THE PATCH PANEL OR TERMINATION BLOCK IN THE TELECOMMUNICATIONS ROOM, REMOVE THE ENTIRE LENGTH OF THE CABLE AND THE CORRESPONDING MODULAR CONNECTOR, FACEPLATE AND ACCESSORIES. NO ABANDONED CABLING IS TO BE LEFT ABOVE CEILING. CONTRACTOR SHALL INSTALL ALL EXISTING AND NEW WIRELESS ACCESS POINTS AT COMPLETION OF PROJECT.



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No.	Description	Date

TECHNOLOGY

DEMO FLOOR
PLAN

awn by:

Drawn by:CCGChecked by:ERICProject number:Project NumberProject Issue Date:10/11/2024

Γ100

1 TECHNOLOGY DEMO FLOOR PLAN T100 1/4" = 1'-0" 1/4" = 1,-0,

GENERAL NOTES

- THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS / WIRING BOUNDARIES.
- 2. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
- 3. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
- CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
- 5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
- 6. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
- UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
- 8. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE ALLOWED.
- 9. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
- 10. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
- 11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
- 12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
- EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM

KEYED NOTES

- 1 FLOOR BOX AS SPECIFIED AND INSTALLED BY DIVISION 26. PROVIDE (1) 1-INCH CONDUIT DEDICATED FOR DATA CABLE AND (1) 1-INCH CONDUIT DEDICATED FOR AUDIO VISUAL CABLE FROM THE POKE THROUGH TO ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE POKE THROUGH IS LOCATED. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL CONDUIT ROUGH-IN REQUIREMENTS PRIOR TO INSTALLATION
- DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR OWNER PROVIDED / OWNER INSTALLED CEILING MOUNTED WIRELESS ACCESS POINT.
- DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS
- DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA WHERE THERE IS AN ACCESSIBLE CEILING. WHERE THERE IS NOT AN ACCESSIBLE CEILING, DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE CAMERA ROUGH-IN. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
- DATA CABLE FOR COMPUTERS. CABLES SHALL BE ROUTED IN HORIZONTAL DUAL CHAMBER SURFACE MOUNTED RACEWAY. SURFACE MOUNTED RACEWAY SHOULD EXTEND INTO ABOVE ACCESSIBLE CEILING AREA.
- DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON A J-HOOK ABOVE ACCESSIBLE CEILING FOR OWNER PROVIDED / OWNER INSTALLED WALL MOUNTED MONITOR WHERE THERE IS AN ACCESSIBLE CEILING. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
- DATA CABLE FOR RECEPTION LOCATION. PROVIDE (1) 1-INCH CONDUIT FOR DATA TO THE WALL BESIDE RECEPTION LOCATION AND UP WALL TO ABOVE ACCESSIBLE CEILING. CONDUITS SHALL TERMINATE INSIDE A DOUBLE GANG BOX THAT IS SECURED TO THE RECEPTION LOCATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
- DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK FOR SECURITY PANELS. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS
- 9 DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON A J-HOOK ABOVE ACCESSIBLE CEILING FOR CEILING MOUNTED PROJECTOR WHERE THERE IS NO ACCESSIBLE CEILING CABLE SHALL BE TERMIANTED IN ROUGH IN WITH SURFACE MOUNTED BOX. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
- DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON A J-HOOK ABOVE ACCESSIBLE CEILING FOR EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT. WHERE THERE IS NO ACCESSIBLE CEILING CABLE SHALL BE TERMIANTED IN ROUGH IN WITH SURFACE MOUNTED BOX. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.



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No.	Description	Date

KEY PLAN

TECHNOLOGY 1st FLOOR PLAN

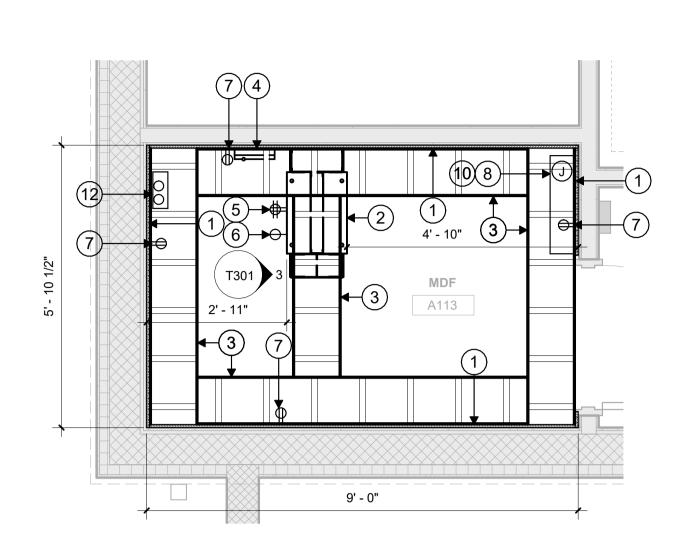
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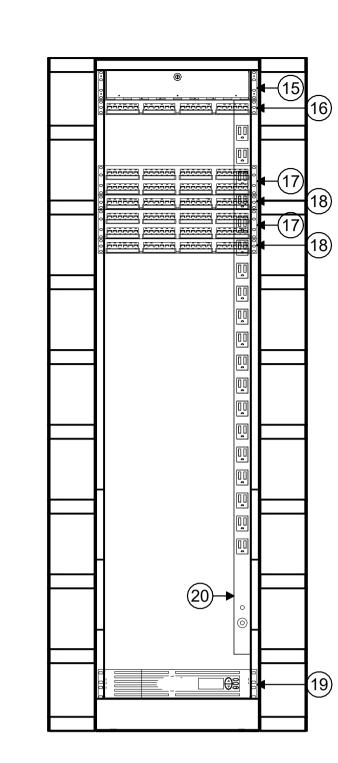
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1 TECHNOLOGY 1st FLOOR PLAN

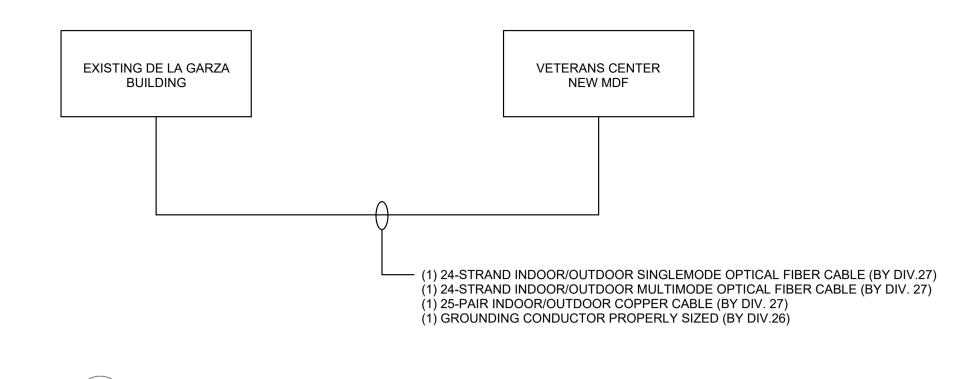
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3 RACK ELEVATION 1" = 1'-0"



BACKBONE RISER DIAGRAM

T301 1" = 1'-0"

MDF GENERAL NOTES

- IN THE EVENT THE CONTRACTOR PROVIDES AND INSTALLS 2-POST EQUIPMENT RACKS IN THE MDF/IDF ROOMS, THE DIVISION 27 CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE IF THE OWNER NEEDS ADDITIONAL EQUIPMENT RACK SUPPORT SUCH AS RAILS OR DEEP SHELVING TO SUPPORT FUTURE OWNER PROVIDED/OWNER INSTALLED UPS SYSTEM EQUIPMENT.
- 2. CONTRACTOR SHALL CONFIRM PATCH PANEL COUNTS WITH CABLE QUANTITIES PRIOR TO BIDDING.
 - EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM.
- 4. A VERTICAL SECTION OF LADDER RACK SHALL BE ATTACHED TO THE WALLBOARD TO MANAGE BACKBONE CABLES, SERVICE PROVIDER CABLES, OR CABLES AS THEY TRANSITION FROM THE ENTRANCE CONDUITS TO OVERHEAD LADDER RACK.

MDF KEYED NOTES

- 4-FEET X 8-FEET X 3/4-INCH A-B GRADE, VOID FREE, FIRE RATED PLYWOOD INSTALLED VERTICALLY STARTING AT 24-INCHES ABOVE FINISHED FLOOR ON ALL PERIMETER WALLS. PAINT WITH (2) COATS OF FIRE-RETARDANT PAINT. (BY DIV. 27)
- 19-INCH X 84-INCH EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS. (BY DIV. 27)
- 12-INCH LADDER RACK MOUNTED AT 87-INCHES ABOVE FINISHED FLOOR. LADDER RACK SHALL BE SUPPORTED PER MANUFACTURE AND INDUSTRY STANDARDS. (BY DIV. 27)
- GROUND BUS BAR MOUNTED AT 84-INCHES ABOVE FINISHED FLOOR. (BY DIV. 27)
- DEDICATED 20 AMP CIRCUIT WITH QUAD NEMA 5-20R RECEPTACLE MOUNTED TO LADDER RACK AT REAR SIDE OF EQUIPMENT RACKS. (BY
- DEDICATED 20 AMP CIRCUIT WITH SIMPLEX NEMA L6-20R TWIST LOCK RECEPTACLE MOUNTED TO LADDER RACK AT REAR SIDE OF EQUIPMENT RACKS. (BY DIV. 26)
- 20 AMP CIRCUIT WITH DUPLEX NEMA 5-20R RECEPTACLE FLUSH MOUNTED TO THE FINISHED WALL SURFACE AT 18-INCHES ABOVE FINISHED FLOOR. MAXIMUM OF (6) PER CIRCUIT. (BY DIV.26)
- DEDICATED 20 AMP CIRCUIT HARDWIRED TO ACCESS CONTROL SECURITY PANEL. (BY DIV. 26)
- DEDICATED 20 AMP CIRCUIT HARDWIRED TO INTRUSION DETECTION SYSTEM. (BY DIV. 26)
- 48-INCHES WIDE X 84-INCHES HIGH RESERVED FOR ACCESS CONTROL SYSTEM. (BY DIV. 27 / 28)
- 48-INCHES WIDE X 84-INCHES HIGH RESERVED FOR SERVICE PROVIDER TERMINATION. (BY DIV.27)
- (3) 4-INCH CONDUITS STUBBED FROM FIRST FLOOR MDF TO SECOND FLOOR IDF. CONDUITS SHALL STUB UP 4-INCHES ABOVE FINISHED FLOOR AND NO FURTHER THAT 4-INCHES FROM THE WALL. CONTRACTOR SHALL PROVIDE AND INSTALL NYLON BUSHINGS, PULL STRING AND CAPS ON EACH END. (BY DIV. 26)

2 RU RACK MOUNTED 48 PORT PATCH PANEL FOR DATA CABLES.

- 2 RU RACK MOUNTED FIBER OPTIC ENCLOSURE. (BY DIV. 27)
- 24 PORT RACK MOUNTED PATCH PANEL
- 1 RU RACK MOUNTED 48 PORT SWITCH. (BY OTHERS)
- UNITERRUPTIPLE POWER SUPPLY. (BY OTHERS)

VERTICAL POWER SUPPLY. (BY DIV. 27)

(BY DIV. 27)

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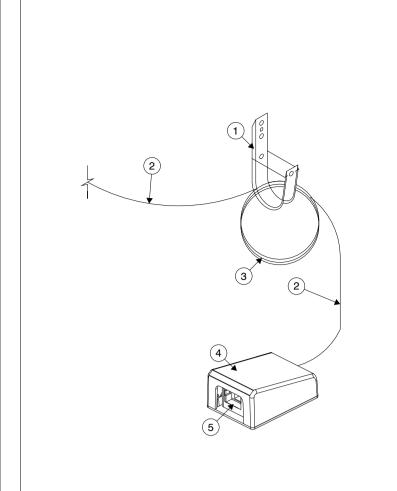
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TECHNOLOGY ENLARGED

Drawn by: ERIC Checked by: Project Number Project number: 10/11/2024 Project Issue Date:

As indicated



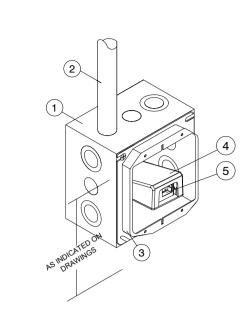
KEYED NOTES:

(1) J-HOOK WITH RETAINER CLIP ABOVE ACCESSIBLE CEILING

(2) DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

- (3) 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
- (4) SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BUILDING STRUCTURE (BY DIV 27).
- 5 DATA INSERT (BY DIV 27).

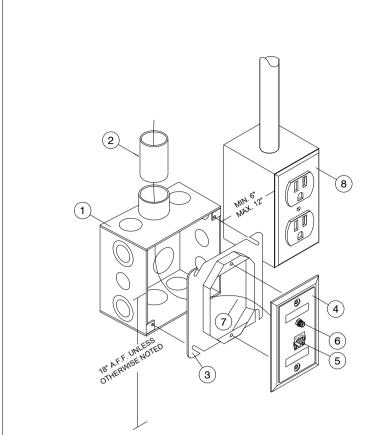




KEYED NOTES:

- 1 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH RECESSED DOUBLE GANG BOX
- (2) 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING. THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY
- DOUBLE GANG PLASTER RING (BY DIV 26).
- SURFACE MOUNT BOX INSIDE THE 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH DOUBLE GANG BOX (BY DIV 27).
- RJ-45 INSERT (BY DIV 27).





KEYED NOTES:

- (1) 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX
- (2) 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
- (3) SINGLE GANG REDUCER RING (BY DIV 26).

REFERENCE ONLY (REFER TO DIV 26).

- ig(4ig) SINGLE GANG WALL PLATE WITH DESIGNATION WINDOW (BY DIV 27).
- (5) DATA INSERT (BY DIV 27).
- (6) CATV "F" CONNECTOR (BY DIV 27).
- (7) CABLE AS SPECIFIED (BY DIV 27). 8) ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR

KEYED NOTES:

GANG BOX (BY DIV 26).

CEILING OFF THE MAIN CORRIDOR.

(3) DOUBLE GANG PLASTER RING (BY DIV 26).

 $(extbf{4}\,)$ DOUBLE GANG BLANK FACEPLATE (BY DIV 27).

5 ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

(1) 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH RECESSED DOUBLE

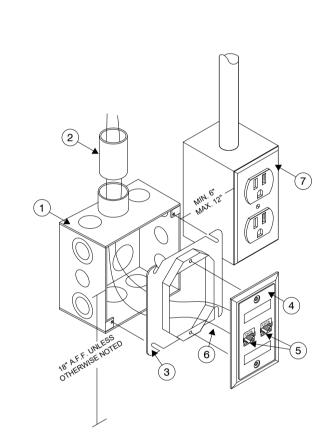
(2) 1 1/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200

THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE

LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE

IS LOCATED DOES NOT HAVE ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE

3 TYPICAL CATV/DATA OUTLET T401 SCALE: N.T.S.

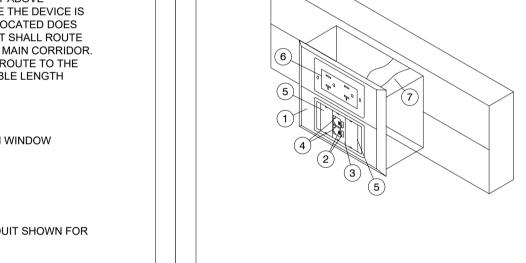


KEYED NOTES:

- (1) 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG
- 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING. THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH
- (3) SINGLE GANG REDUCER RING (BY DIV 26).
- (4) SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW
- 5) DATA INSERT (BY DIV 27).

TYPICAL DUAL DATA OUTLET CONFIGURATION

- 6) CABLE AS SPECIFIED (BY DIV 27).
- DELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).



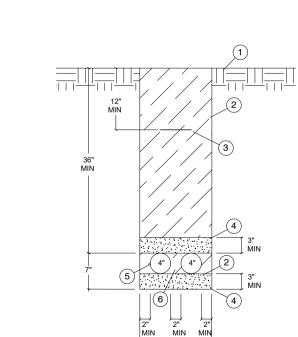
KEYED NOTES:

- (1) SINGLE GANG FACEPLATE (BY DIV 27).
- (2) DESIGNATION ICON BUTTON (BY DIV 27).
- (3) FLUSH MOUNTED KEYSTONE INSERT (UNLOADED) (BY DIV 27).
- (4) 8 CONDUCTOR JACK TO BE TERMINATED ON DATA RACK (BY DIV 27).
- (5) BLANK INSERT (BY DIV 27).
- (6) ELECTRICAL RECEPTACLE SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).
- (7) CABLE AS SPECIFIED (BY DIV 27).



TYPICAL IFPM ROUGH-IN CONFIGURATION

T401 SCALE: N.T.S.



T401 SCALE: N.T.S.

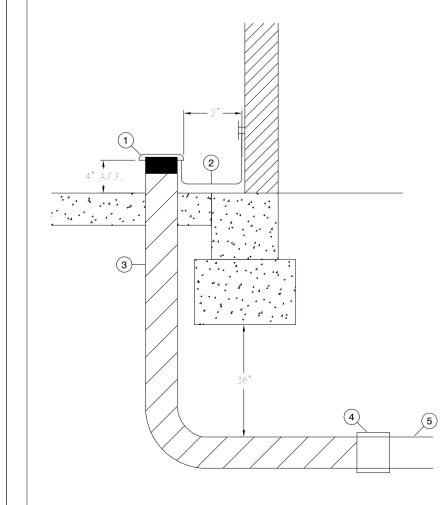
KEYED NOTES:

(1) FINISHED GRADE (BY DIV 26).

(4) COMPACTED SAND (BY DIV 26).

- (2) SELECT COMPACTED BACKFILL (BY DIV 26).
- (3) DETECTABLE WARNING TAPE (BY DIV 26).
- (5) COMMUNICATIONS CONDUIT (BY DIV 26).
- (6) DUCT SPACERS (TYPICAL BETWEEN ALL CONDUITS) (BY DIV 26).

TYPICAL COMMUNICATIONS DUCT BANK DETAIL - (2) 4-INCH CONDUITS



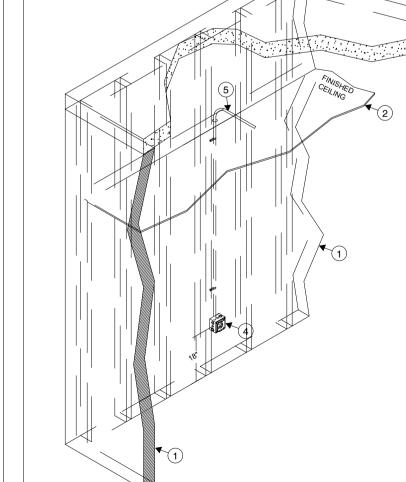
T401 SCALE: N.T.S.

T401 SCALE: N.T.S.

KEYED NOTES:

8 TYPICAL TECHNOLOGY DUCT ENTRY INTO BUILDING

- ig(f 1 ig) GROUNDING BUSHING (BY DIV 26).
- 2) #6 GROUND WIRE TO TMGB/TGB (BY DIV 26).
- ig(3ig) 4-INCH RIGID STEEL CONDUIT WRAPPED WITH PASCO PROTECTIVE TAPE SYSTEM (BY DIV 26).
- (4) PVC FEMALE ADAPTER (BY DIV 26).
- (5) SCHEDULE 40 PVC (BY DIV 26).



KEYED NOTES:

- (1) SCHEDULED WALL.
- (2) SCHEDULED CEILING.
- (3) SCHEDULED DECK ABOVE.
- (4) 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX WITH DOUBLE GANG PLASTER RING (BY DIV 26).
- (5) 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH. (BY DIV 26).

9 TYPICAL TECHNOLOGY CONDUIT ROUGH-IN

T401 SCALE: N.T.S.

Veterans Services

CAVAZOSARCHITECTS 9114 MCPHERSON RD. STE 2501 LAREDO, TX 78045 P: (956) 724-8123 memo@cavazosarch.com

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No.	Description	Date

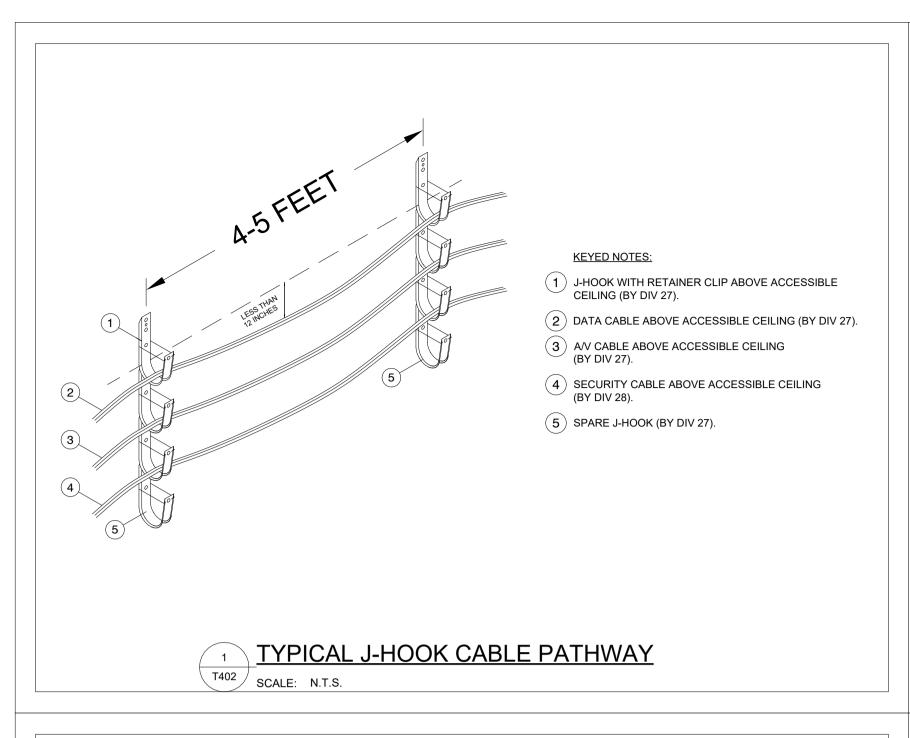
KEY PLAN

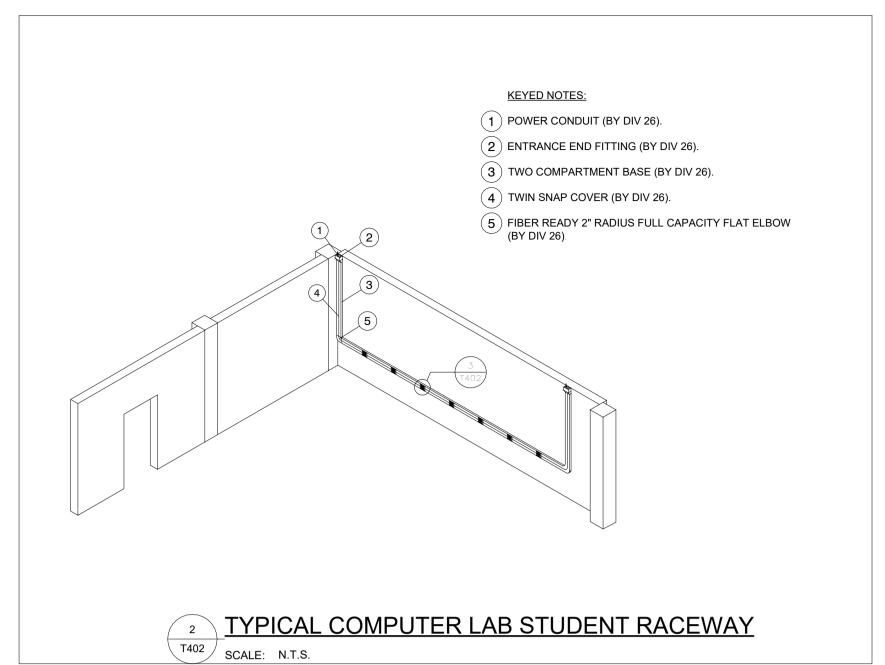
TECHNOLOGY TYPICAL DETAILS

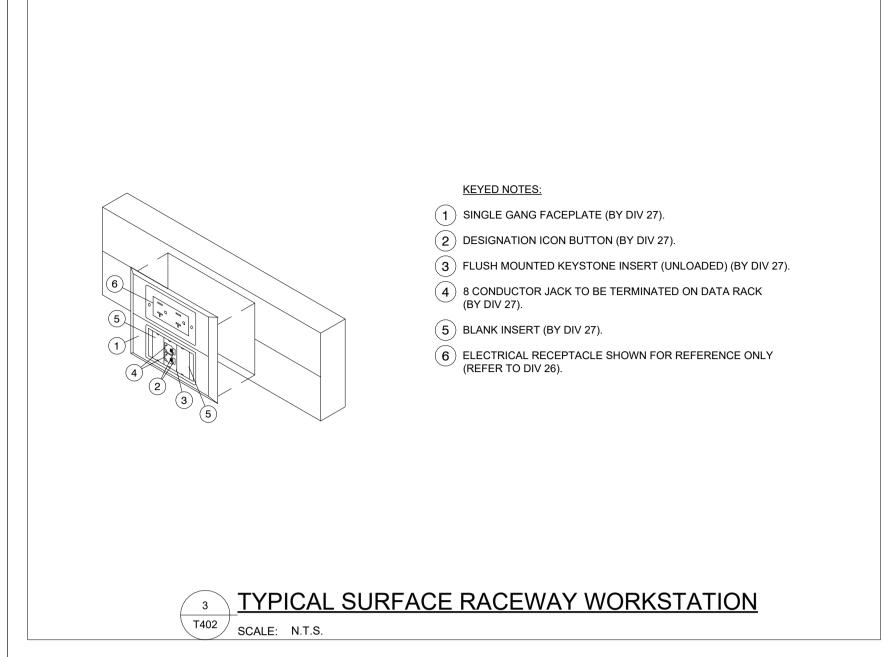
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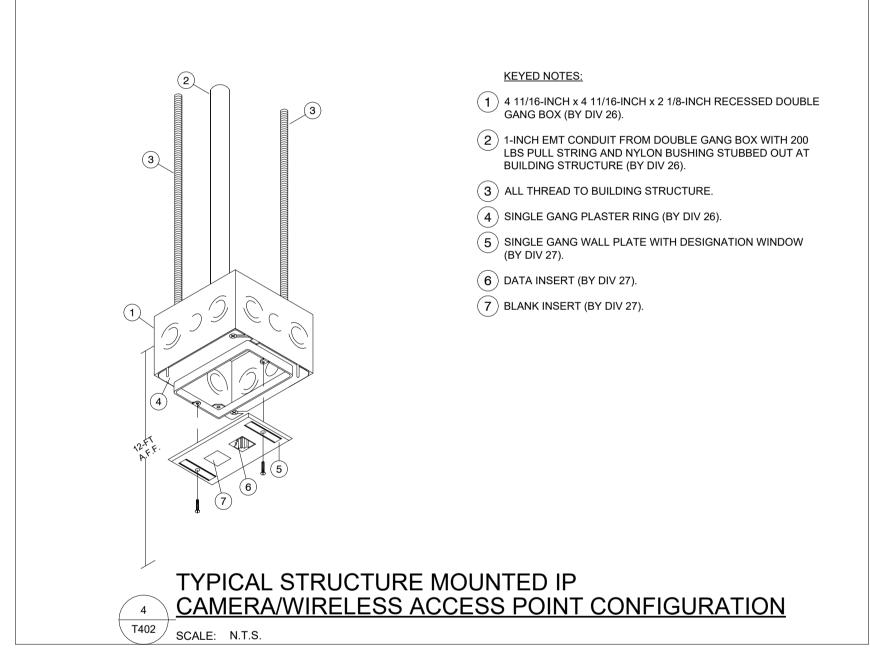
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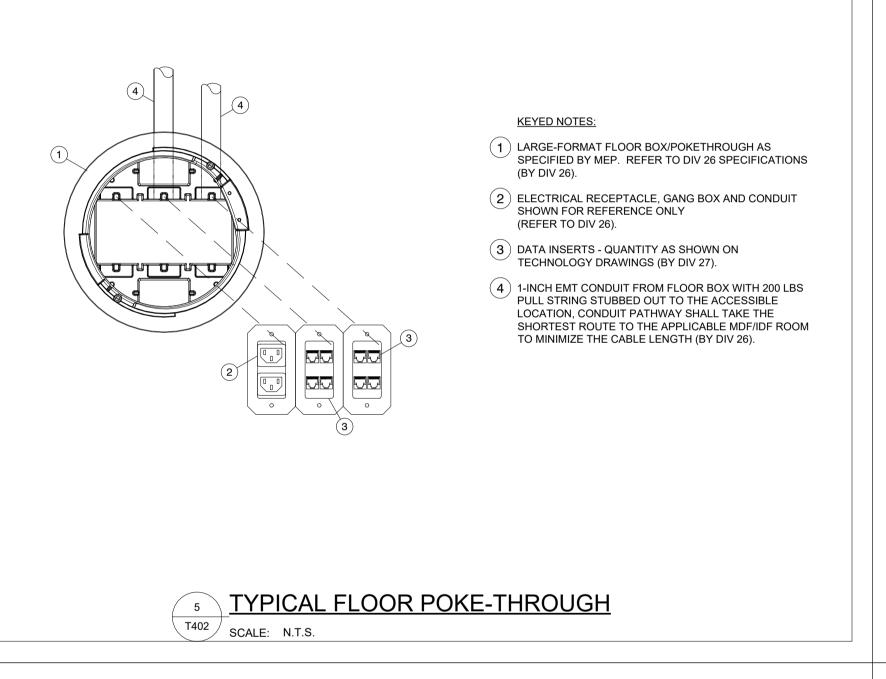
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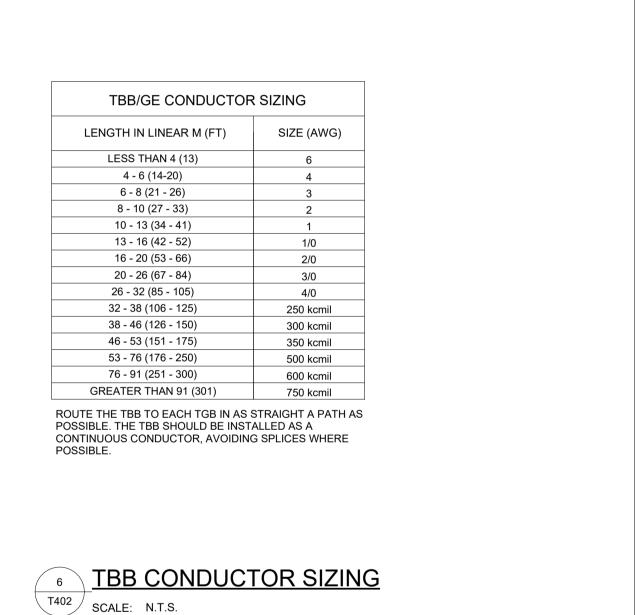


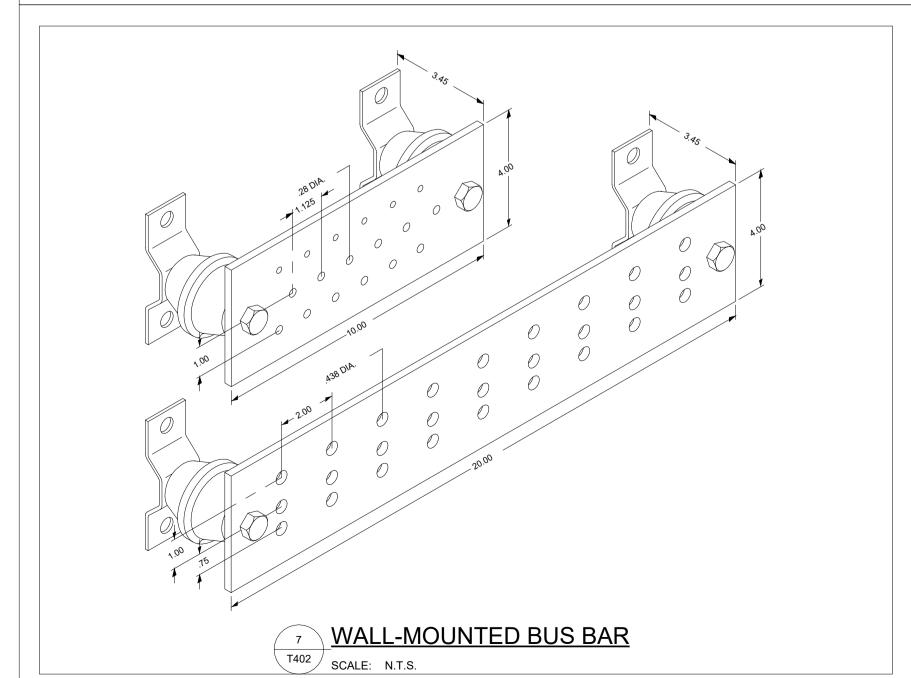


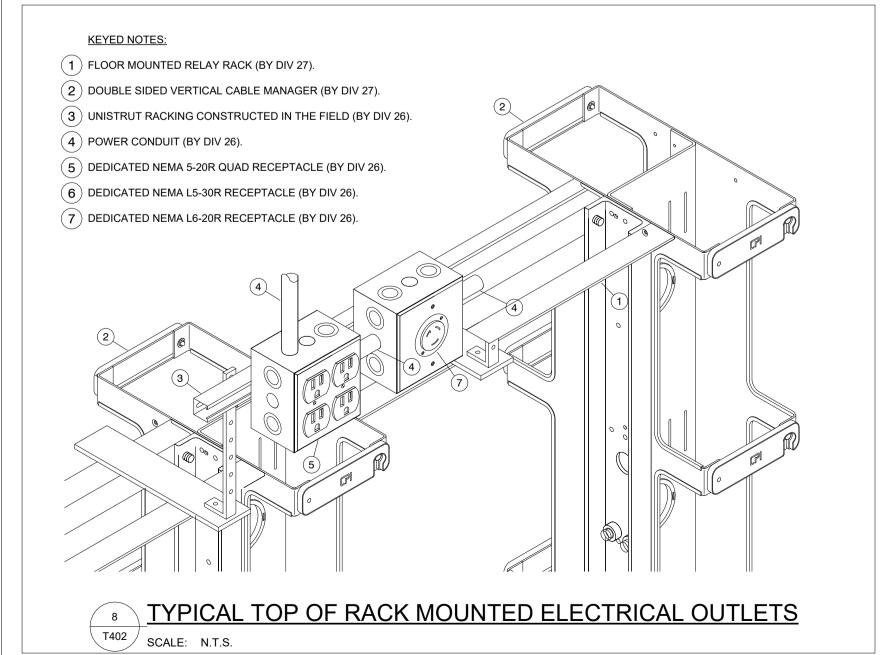


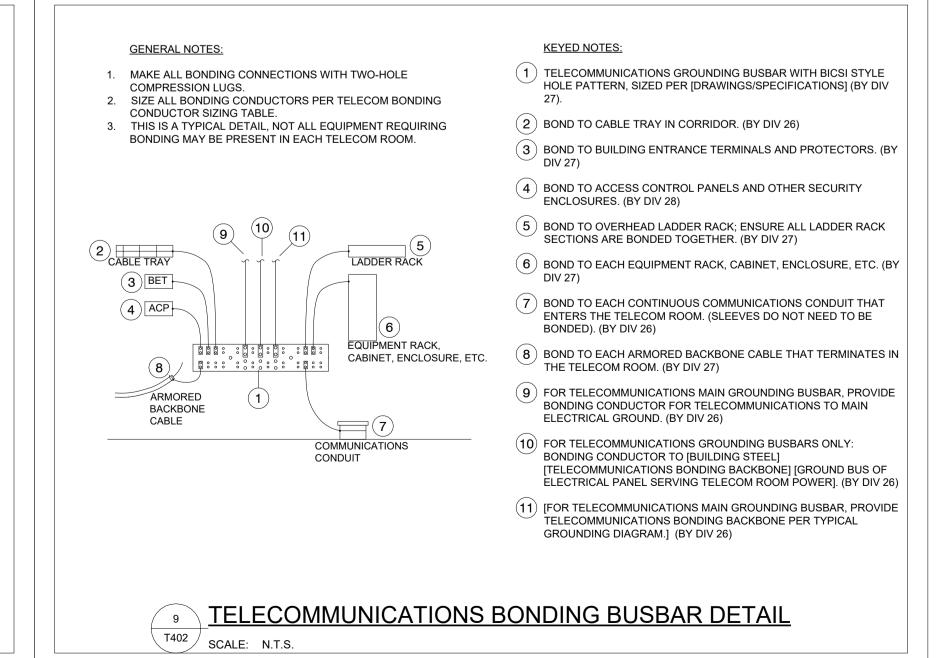














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No.	Description	Date

KEY PLAN

TECHNOLOGY
TYPICAL DETAILS

Drawn by:CCGChecked by:ERICProject number:Project NumberProject Issue Date:10/11/2024

T402

3/4" =

3/4" = 1'-0"

.2024 04:53:23

AUDIOVISUAL SYMBOLS & LEGEND

AUDIOVISUAL SYMBOLS ACP AUDIOVISUAL CONTROL PROCESSOR. AMP SPEAKER AMPLIFIER. CEILING-MOUNTED ANTENNA, # = TYPE AS SPECIFIED. WALL-MOUNTED ANTENNA, # = TYPE AS SPECIFIED. CEILING-MOUNTED CLOCK. WALL-MOUNTED CLOCK. DOUBLE-SIDED WALL-MOUNTED CLOCK. CEILING-MOUNTED AUDIOVISUAL CAMERA. WALL-MOUNTED AUDIOVISUAL CAMERA. WALL-MOUNTED CALL BUTTON. CEILING MOUNTED EQUIPMENT ENCLOSURE. WALL-MOUNTED CONTROL PANEL, # = TYPE AS SPECIFIED. MOBILE CART. CATV LOCATION, CABLE TYPE AND TERMINATION AS SPECIFIED DISTRIBUTION AMPLIFIER DIGITAL SIGNAGE PLAYER. AUDIO DIGITAL SIGNAL PROCESSOR EQUIPMENT RACK, # = TYPE AS SPECIFIED. FLOOR BOX, # = TYPE AS SPECIFIED. IP ENCODER / DECODER. LECTERN / PODIUM. CEILING-MOUNTED MICROPHONE, # = TYPE AS SPECIFIED. WALL-MOUNTED OR TABLETOP MOUNTED MICROPHONE, # = TYPE AS SPECIFIED. CEILING-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED. WALL-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED. TABLETOP OR RACK MOUNTED MIXER CEILING-MOUNTED OCCUPANCY SENSOR. WALL-MOUNTED OCCUPANCY SENSOR.

CEILING-MOUNTED PARTITION SENSOR.

	AUDIOVISUAL SYMBOLS			
P# -	PROJEC	CTOR, # = TYPE AS SPECIFIED.		
R	WALL-M	OUNTED ROUGH-IN LOCATION.		
RS	ROOM S	CHEDULER.		
RX#	AUDIOV	ISUAL RECEIVER		
S#)	CEILING	s-MOUNTED SPEAKER, # = TYPE AS SPECIFIED.		
S#	WALL-M	OUNTED SPEAKER, # = TYPE AS SPECIFIED		
SB	SOUND	BAR.		
SBC	SOUND	BAR WITH CAMERA AND MICROPHONE		
ТС	TABLETO	TABLETOP CABLE CUBBY.		
TX#	AUDIOV	AUDIOVISUAL TRANSMITTER.		
VC	WALL-M	MOUNTED VOLUME CONTROL.		
VCC	VIDEO C	CONFERENCING COMPUTER.		
WB#	AUDIOV	ISUAL WALL BOX, # = TYPE AS SPECIFIED.		
W	P	WIRELESS PRESENTATION		
	FP#	FLAT PANEL DISPAY, # = TYPE AS SPECIFIED.		
	FP#	INTERACTIVE FLAT PANEL, # = TYPE AS SPECIFIED.		
	SCR#	PROJECTION SCREEN, # = TYPE AS SPECIFIED.		
	VW#	VIDEO WALL, # = TYPE AS SPECIFIED.		
		DEVICE CONDUIT BELOW FLOOR.		
		DEVICE CONDUIT ABOVE CEILING.		

GENERAL SYMBOLS

# DRAWING TITLE SHEET SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
1 TA-302	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
<u>/</u> #\	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION.

ABBREVIATIONS

AE BY CA CC	F.G. R OD TV	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AERIAL BRING YOUR OWN DEVICE COMMUNITY ANTENNA TELEVISION
AE BY CA CC	R OD TV	AERIAL BRING YOUR OWN DEVICE
BY CA CC	OD TV	BRING YOUR OWN DEVICE
CA	TV	
CC		COMMUNITY ANTENNA TELEVISION
	TV	
01.		CLOSED CIRCUIT TELEVISION
CL.	Т	CLOSET
CO)	CENTRAL OFFICE
DE	MARC	DEMARCATION POINT
DP	DT	DOUBLE PULL DOUBLE THROW
EM	IT	ELECTRIC METALLIC TUBE
F.C).C.	FIBER OPTIC CABLE
GIF	•	GALVANIZED IRON PIPE
HE		PA/INTERCOM HEAD-END
IMO	0	INTERMEDIATE METAL CONDUIT
ISF		INSIDE CABLE PLANT
IDF	:	INTERMEDIATE DISTRIBUTION FRAME
MD	F	MAIN DISTRIBUTION FRAME
MH	I	MANHOLE
MM	1	MULTIMODE
OS	Р	OUTSIDE CABLE PLANT
PB		PULLBOX
PR		PAIR
PB	X	PRIVATE BRANCH EXCHANGE
PV	С	POLYVINYL CHLORIDE
SM	l	SINGLE MODE
SP		SERVICE PROVIDER
STI	P	SHIELDED TWISTED PAIR
ТВ		TERMINAL BLOCK
UO		UNLESS OTHERWISE NOTED
UT	Р	UNSHIELDED TWISTED PAIR

NOTES

1.	CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2.	SCALE OF AUDIOVISUAL DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3.	AUDIOVISUAL DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4.	ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.
5.	IN THE EVENT OF A DISCREPANCY BETWEEN THE AUDIOVISUAL DRAWINGS AND SPECIFICATIONS THE GREATER QUANTITY AND COST SHALL BE UTLIZED.
6.	CONFIRM MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7.	THE CENTERLINE OF DEVICE INSTALL LOCATIONS ARE FOR REFERENCE AND DESIGN INTENT. CONFIRM WITH ARCHITECT, OWNER, AND FIELD CONDITIONS.
8.	ALL DISPLAYS OR WALL MOUNTED DEVICES SHALL BE WITHIN ADA REQUIREMENTS. CONTRACTOR SHALL IDENTIFY ANY NON-COMPLIANT DEVICES AND BRING TO THE ATTENTION OF THE ARCHITECT AND CONSULTANT.

INDEX OF DRAWINGS

TA000 TA101 TA601	

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9114 MCPHERSON RD. STE 2501

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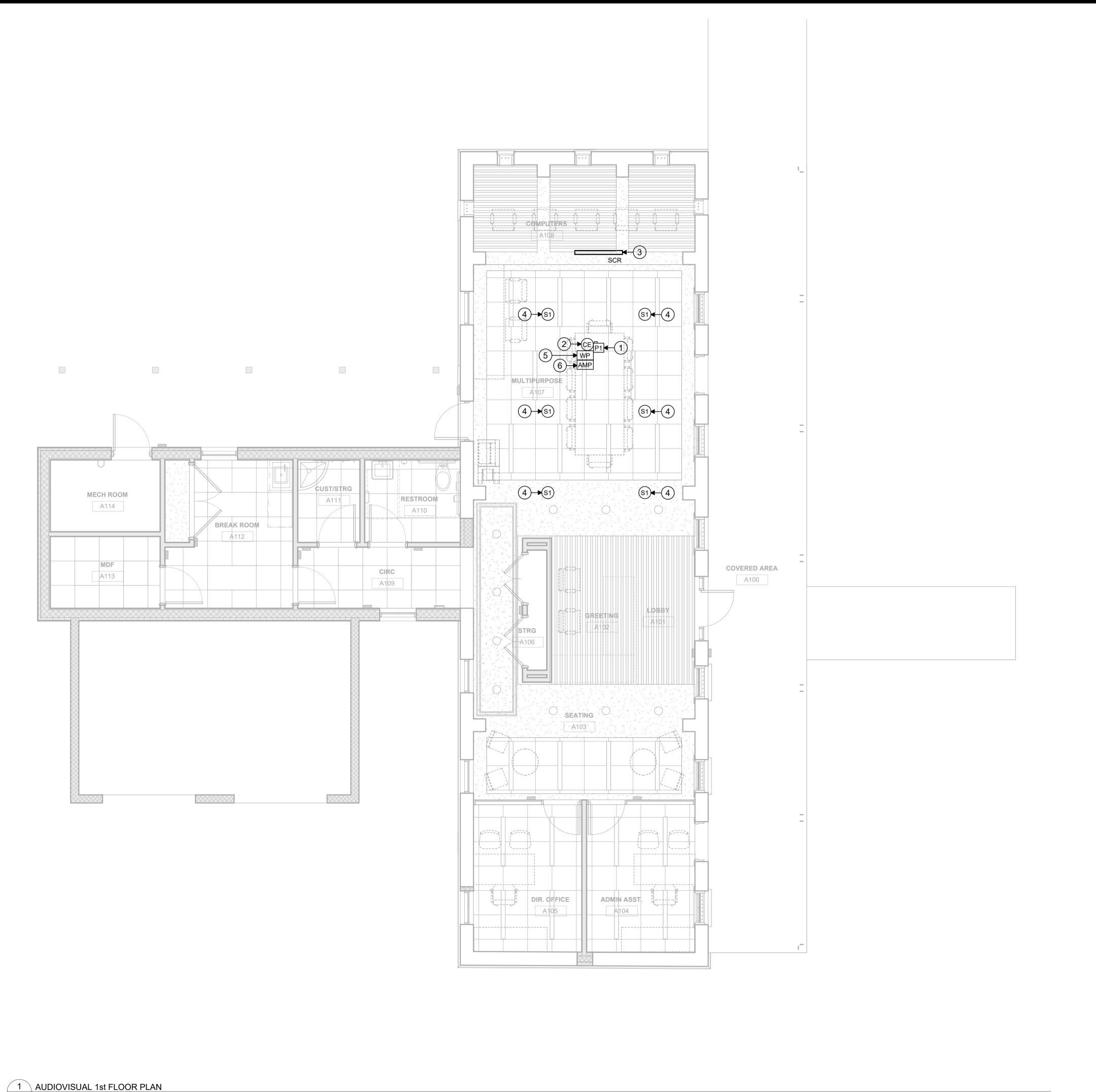
140.	Description	Date

KEY PLAN

AUDIOVISUAL SYMBOLS & LEGEND

Drawn by:CCGChecked by:ERICProject number:Project NumberProject Issue Date:10/11/2024

TA000



GENERAL NOTES

- THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE FLOOR PLAN SHEETS FOR ALL TECHNOLOGY REGIONS / WIRING BOUNDARIES.
- ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE AUDIOVISUAL DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26. AUDIOVISUAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL FOR CONDUIT, BACKBOX, AND RACEWAY
- ALL POWER INDICATED ON THE AUDIOVISUAL DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
- CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR AUDIOVISUAL CABLING BACK TO THE ORIGINAL RATING.
- CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR AUDIOVISUAL CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
- AUDIOVISUAL CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
- UNLESS NOTED OTHERWISE, ALL CONDUITS FOR AUDIOVISUAL DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED MANUFACTURER RECOMMENDATIONS.
- UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE
- CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING
- CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
- ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
- ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
- 13. ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR OR THE NEAREST MDF/IDF. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR OR THE CONSTRUCTION DOCUMENTS NEAREST MDF/IDF TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
- THE SCOPE OF THIS DESIGN IS FOR ROUGH IN AND PATHWAYS ONLY. AUDIOVISUAL DEVICES AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY OTHERS AND THE OWNER. UNLESS OTHERWISE NOTED.

AUDIOVISUAL KEYED NOTES

- CEILING MOUNTED PROJECTOR BY OWNER. COORDINATE WITH DIV. 26 FOR ROUGH IN, PATHWAYS AND POWER LOCATION.
- CEILING ENCLOSURE WITH INTEGRATED POWER AND DATA RECEPTACLES. POWER REQUIRED; DATA REQUIRED. COORIDNATE WITH DIV 26 FOR ROUGH IN, CONDUIT PATHWAYS, AND POWER LOCATION. COORDINATE WITH DIV 27 FOR DATA LOCATION. PROVIDE DROP COLUMN TO LEGNTH AS REQUIRED.
- CEILING MOUNTED, MOTORIZED PROJECTION SCREEN BY OWNER. COORDINATE WITH DIV. 26 FOR ROUGH IN, PATHWAYS AND POWER
- CEILNG MOUNTED PENDANT SPEAKER BY OWNER. PROVIDE PATHWAYS AND ROUGH IN AS REQUIRED.
- WIRELESS PRESENTATION DEVICE BY OTHERS. POWER REQUIRED; DATA REQUIRED. INSTALLS IN CEILING ENCLOSURE -- 'CE.'
- SPEAKER AMPLIFIER BY OTHERS. POWER REQUIRED. INSTALLS IN CEILING ENCLOSURE -- 'CE.' COORDINATE WITH DIV. 26 FOR CONDUIT PATHWAYS FROM SPEAKER CABLING FROM 'CE' TO SPEAKER LOCATIONS AS NEEDED.



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Description

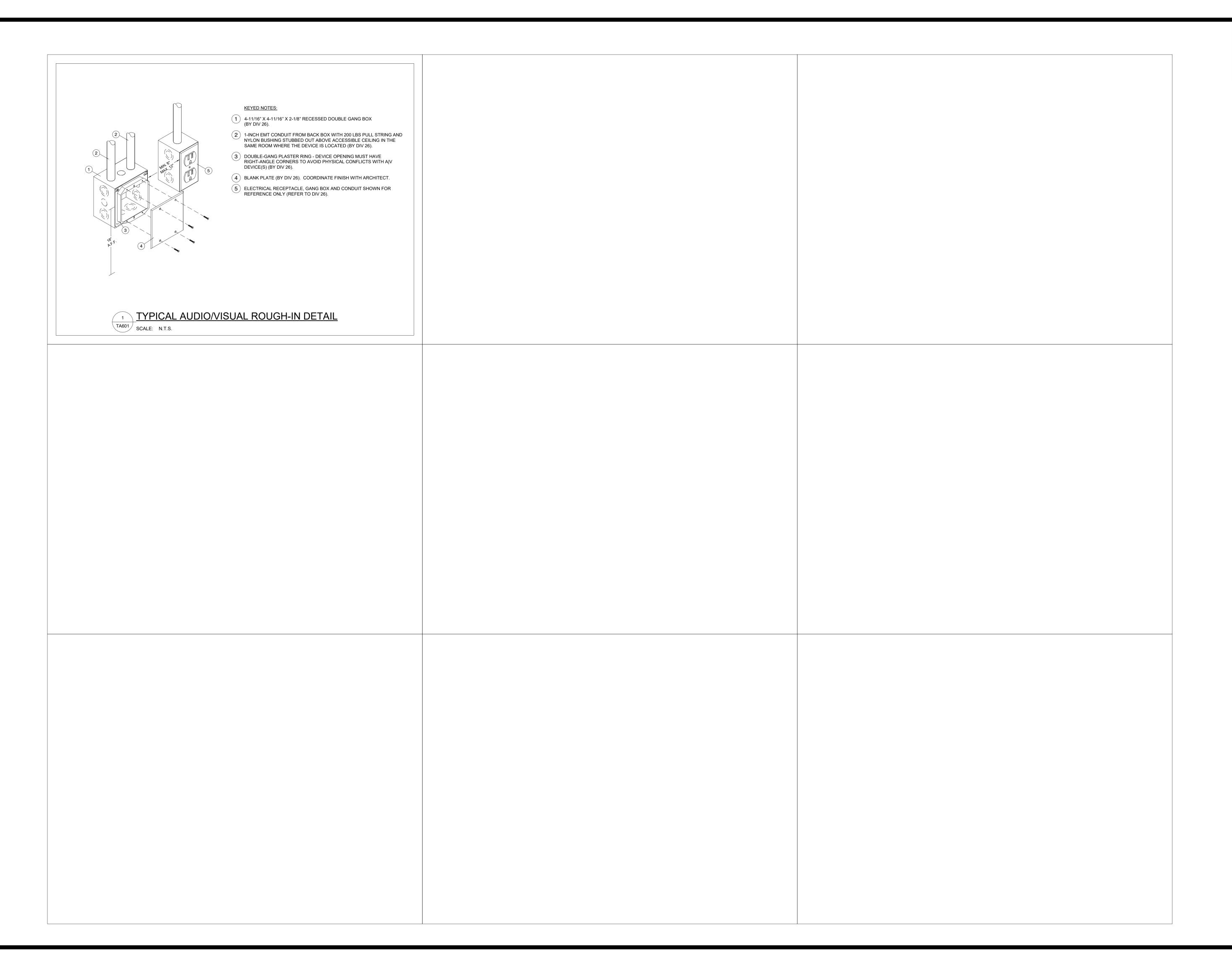
AUDIOVISUAL 1st **FLOOR PLAN**

Drawn by: **ERIC** Checked by: Project Number Project number: 10/11/2024 Project Issue Date:

TA101

1/4" = 1'-0"

TA101 1/4" = 1'-0"





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CONSTRUCTION DOCUMENTS

BICSI ID # 311985

Expires 12-31-25

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No.	Description	Date

AUDIOVISUAL TYPICAL DETAILS

Drawn by:CCGChecked by:ERICProject number:Project NumberProject Issue Date:10/11/2024

TA601

3/4" = 1'-0"

4-10-2024 04:53:24

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
В	BURIED
CAT.3/5	CATEGORY 3/5
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
DEMARC	DEMARCATION POINT
DPDT	DOUBLE PULL DOUBLE THROW
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IRC	INTERMEDIATE RIGID CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
ТВ	TERMINAL BLOCK
UTP	UNSHIELDED TWISTED PAIR

1.	CONTRACTOR SHALL REVIEW ALL SECURITY DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN (BY DIVISION 28).
2.	SCALE OF SECURITY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3.	SECURITY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS (BY DIVISION 28).
4.	ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO PLACING A BID. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/ENGINEER'S INTERPRETATION (BY DIVISION 28).
5.	SECURITY DEVICES SHALL TERMINATE IN THE MDF/IDF LOCATED WITHIN THE SECURITY REGION (SR) OUTLINED ON THE TSSERIES DRAWINGS.
6.	ANY REFERENCE TO OR INDICATION OF DOOR HARDWARE IS SHOWN FOR REFERENCE ONLY. COORDINATION WITH THE DIVISION 8 DESIGN CONSULTANT / CONTRACTOR FOR DOOR HARDWARE CLARIFICATION, INFORMATION, AND REQUIREMENTS (BY DIVISION 8).
7.	THE TS-SERIES DRAWINGS REPRESENT DIVISION 28 SECURITY INSTALLATION REQUIREMENTS, ANY REFERENCE TO OTHER DIVISIONS SUCH AS DIVISION 8, 26, 27, 14, ETC. IS SHOWN ON THESE DOCUMENTS AS A GENERAL DEPICTION OF THE INSTALLATION AND DOES NOT REPRESENT THE ACTUAL DEVICES, PATHWAYS, AND RELATED INSTALLATION REQUIREMENTS. THE CONTRACTOR SHALL REFER TO THE OTHER DIVISIONS OF WORK FOR THE COMPLETE REQUIREMENTS FOR THOSE DIVISION S OF WORK.
8.	CONTRACTOR IS RESPONSIBLE FOR INSTALLING SECURITY DEVICES IN CONFORMANCE WITH CURRENT ADA REQUIREMENTS.

INDEX OF DRAWINGS

TS000	SECURITY SYMBOLS & LEGEND
TS001	SECURITY SITE PLAN
TS100	SECURITY DEMO FLOOR PLAN
TS101	SECURITY 1st FLOOR PLAN
TS401	SECURITY TYPICAL DETAILS
TS501	SECURITY SCHEDULES

ELECTRONIC SURVEILLANCE SYMBOLS GENERAL SYMBOLS DRAWING TITLE FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. DRAWING TITLE CALLOUT, # = DETAIL NUMBER. SHEET SCALE: SCALE # SHEET CEILING-MOUNTED FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. DETAIL CALLOUT, # = DETAIL NUMBER. 180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. SECTION CALLOUT, # = DETAIL NUMBER. SHEET # CEILING-MOUNTED 180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. ELEVATION CALLOUT, # = DETAIL NUMBER. 360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. KEYED NOTE, # = KEYED NOTE NUMBER. CEILING-MOUNTED 360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET). TR (IDF XXX) — PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED. INDICATES TELECOMMUNICATIONS REGION CEILING-MOUNTED PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS

INTRUSION DETECTION SYMBOLS

ACCESS CONTROL SYMBOLS

WIRELESS DOOR RELEASE RECEIVER DEVICE.

WIRELESS DOOR RELEASE TRANSMITTER DEVICE.

WIRELESS DURESS BUTTON RECEIVER DEVICE.

WIRELESS DURESS BUTTON TRANSMITTER DEVICE.

PRE-WIRE AND BLANK COVER PLATE FOR FUTURE DEVICE.

ACCESS CONTROL SYMBOLS

INTERFACE TO AUTOMATIC DOOR CONTROL AND MONITORING.

INTERFACE TO RETRACTABLE VEHICLE BOLLARD.

BIOMETRIC READER.

DOOR BELL CHIME.

CARD READER.

CARD READER MULLION MOUNT.

CARD READER/INTERCOM UNIT.

WALL MOUNTED DURESS BUTTON.

DOOR MANAGEMENT ANNUNCIATOR.

INTERFACE TO FIRE ALARM SYSTEM.

AUDIO INTERCOM SUBSTATION.

KEYSWITCH.

LOCKDOWN BUTTON.

INTERFACE TO ELEVATOR CONTROL/MONITORING.

INTERFACE TO PARKING GATE CONTROL/MONITORING.

INTERFACE TO OVERHEAD DOOR CONTROL/MONITORING.

INTERFACE TO MOTORIZED REVOLVING DOOR CONTROL/MONITORING.

REQUEST-TO-EXIT MOTION SENSOR MOUNTED CEILING-MOUNTED.

REQUEST-TO-EXIT MOTION SENSOR DOOR FRAME-MOUNTED.

INTERFACE TO SLIDING DOOR CONTROL/MONITORING.

VIDEO INTERCOM SUBSTATION.

DESKTOP VIDEO INTERCOM MASTER STATION.

INTERCOM MASTER STATION AS INDICATED BLOCK DIAGRAM AND/OR DETAILS.

LOCKDOWN BUTTON UNDER COUNTER. ARMORED CABLE FROM LOCKDOWN BUTTON TO JUNCTION BOX.

REQUEST-TO-EXIT IS INTEGRAL WITH ELECTRIFIED LOCKING HARDWARE. PROVIDED AND INSTALLED BY

SECURITY SYSTEM RISER, DATA GATHERING PANEL AND LOW VOLTAGE POWER SUPPLY DISTRIBUTION

WIRELESS DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE, OR COUNTER.

DOOR BELL.

DOOR CONTACT.

CARD READER/INTERCOM PEDESTRIAN PEDESTAL.

DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE OR COUNTER PROVIDE ARMORED CABLE FROM DURESS BUTTON TO JUNCTION BOX.

OVERHEAD DOOR CONTACT. PROVIDE ARMORED CABLE FROM SWITCH TO JUNCTION BOX.

SINGLE DOOR RELEASE PUSHBUTTON UNDER COUNTER. ARMORED CABLE FROM PUSHBUTTON TO

ELEVATOR CARD READER.

		INTROSION DETECTION STINDOLS
[.	AL	ALARM ANNUNCIATOR LIGHT.
[AP	ANNUNCIATOR PANEL AS INDICATED IN BLOCK DIAGRAMS AND/OR DETAILS.
	AV	AUDIO VISUAL ANNUNCIATOR.
	FA	INTERFACE TO FREEZER/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
(FC	FUTURE CABLE AS SPECIFIED.
(GB)	CEILING-MOUNTED GLASS BREAK SENSOR.
	GB	GLASS BREAK SENSOR.
	KP	PERSONAL IDENTIFICATION NUMBER KEYPAD.
(M	SOUND DETECTION MICROPHONE.
(MD	360° MOTION DETECTOR MOUNTED TO CEILING.
[MD	MOTION DETECTOR.
[MD LR	LONG RANGE MOTION DETECTOR.
	RA	INTERFACE TO REFRIGERATOR/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
(ST	STROBE LIGHT SURFACE MOUNTED TO CEILING.
	ST	STROBE LIGHT.
	V	VIBRATION DETECTOR.

MISCELLANEOUS SECURITY SYMBOLS

В	ALERTUS BEACON MOUNTED AT 60" A.F.F. UNLESS OTHERWISE NOTED
EP	EMERGENCY PHONE.
LS	FLOOR MOUNTED LIQUID SENSOR. PROVIDE ARMORED CABLE FROM SENSOR TO JUNCTION BOX.
S	INTERCOM SPEAKER FLUSH MOUNTED IN CEILING.
	ALERTUS LED MARQUEE (SINGLE SIDED)
	ALERTUS LED MARQUEE (DOUBLE SIDED)

NOTES

TS000	SECURITY SYMBOLS & LEGEND	
TS001	SECURITY SITE PLAN	
TS100	SECURITY DEMO FLOOR PLAN	
TS101	SECURITY 1st FLOOR PLAN SECURITY TYPICAL DETAILS	
TS401 TS501	SECURITY TYPICAL DETAILS SECURITY SCHEDULES	
13301	SECURIT SCHEDULES	

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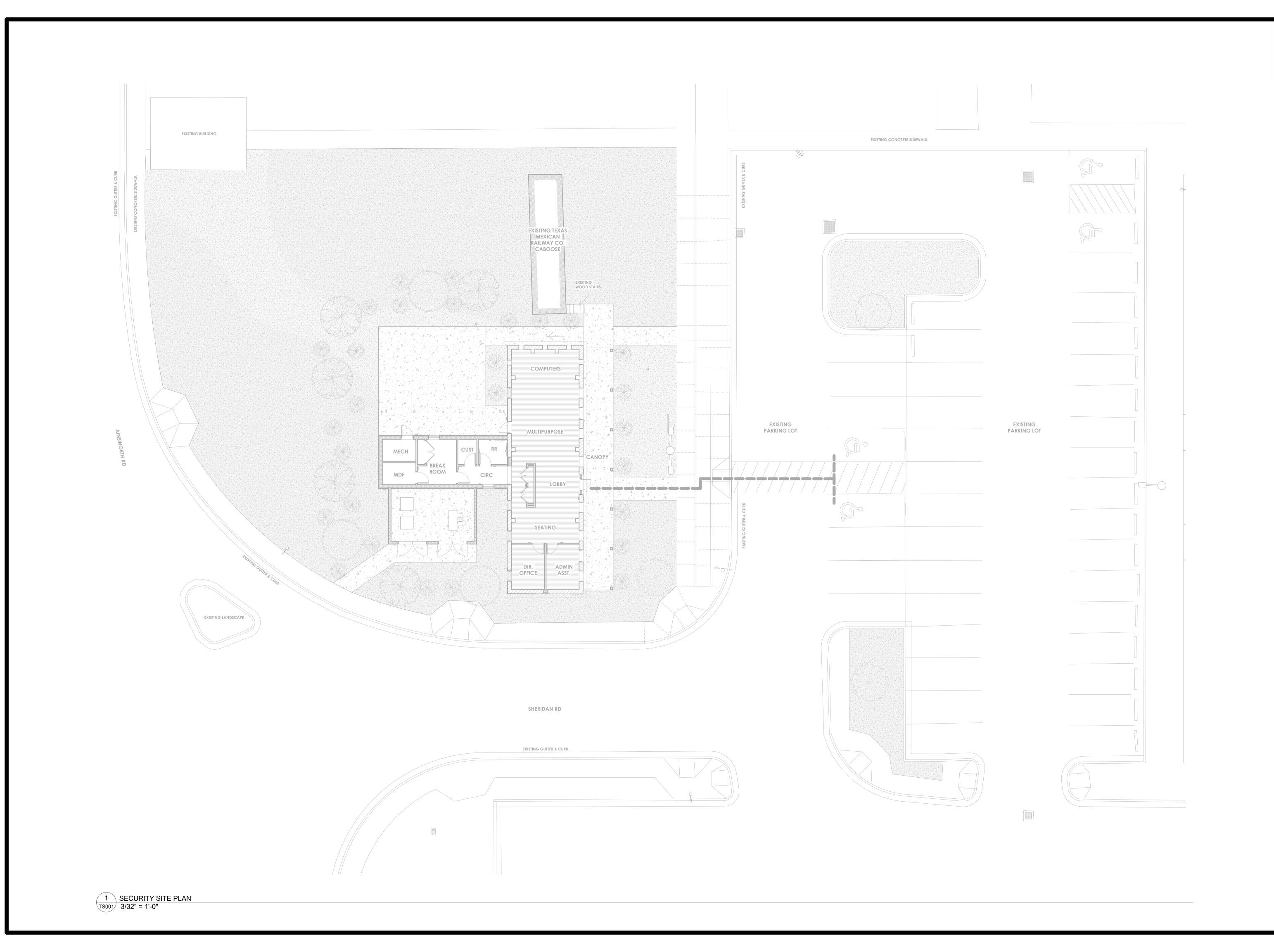
Description

SECURITY

SYMBOLS & **LEGEND**

Checked by: Project number: Project Number Project Issue Date:

TS000





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No.	Description	Date

KEY PLAN SECURITY SITE

PLAN

Drawn by: ERIC Checked by: Project Number Project number: 10/11/2024 Project Issue Date:

TS001

3/32" = 1'-0"

GENERAL NOTES - DEMOLITION:

- 1. ALL SECURITY SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES DURING BUSINESS HOURS AS DEFINED BY THE OWNER. ANY SECURITY SYSTEM DOWNTIME SHALL BE SCHEDULED WITH THE ARCHITECT/ENGINEER AND OWNER AT LEAST TEN (10) WORKING DAYS IN ADVANCE. CONTRACTOR SHALL DEVELOP A PHASING PLAN AND SCHEDULE OF ANY REQUIRED SECURITY SYSTEM DOWNTIME FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER AND OWNER PRIOR TO ANY CONSTRUCTION ACTIVITIES (BY DIVISION 28).
- 2. THE EQUIPMENT ROOMS AND APPLICABLE SECURITY ROOMS ENVIRONMENTAL CONTROLS SHALL BE MAINTAINED AT ALL TIMES. THE EQUIPMENT ROOMS AND TELECOM ROOMS TEMPERATURE SHALL REMAIN BETWEEN 60 70 DEGREES F WITH RELATIVE HUMIDITY OF 30% 50% NON-CONDENSING. THE TEMPERATURE RANGE OF THE EQUIPMENT ROOMS AND SECURITY/TELECOM ROOMS SHALL BE MAINTAINED BETWEEN + 9 DEGREES F.
- OWNER SHALL BE RESPONSIBLE FOR POWERING DOWN AND STARTING-UP OF ALL SECURITY SYSTEMS. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT/ENGINEER AND OWNER AND PROVIDE A MINIMUM OF TEN (10) WORKING DAYS NOTICE FOR SCHEDULING OF ANY REQUIRED DOWNTIME (BY DIVISION 28).
- 4. ALL EXISTING CONDITIONS AS SHOWN ARE APPROXIMATELY CORRECT. NOT ALL EXISTING CONDITIONS ARE SHOWN. CONTRACTOR SHALL VISIT THE SITE TO FIELD VERIFY ALL EXISTING CONDITIONS AS REQUIRED TO PROPERLY PROVIDE A BID/PROPOSAL AND PERFORM ALL REQUIRED WORK. SUBMIT ANY QUESTIONS OR UNCERTAINTIES TO THE ARCHITECT/ENGINEER/OWNER PRIOR TO BIDDING OR BEGINNING WORK (BY DIVISION 28).
- 5. UNLESS STATED OTHERWISE, ALL EXISTING NON-REUSABLE HORIZONTAL SECURITY CABLE AND J-HOOK PATHWAYS REQUIRED TO SUPPORT SECURITY SYSTEMS ARE TO BE REMOVED IN THEIR ENTIRETY AS INDICATED ON TSD-SERIES DRAWINGS. ALL OTHER FIBER OPTIC CABLE, COPPER BACKBONE, AND SECURITY BACKBONE CABLE OR OTHER CRITICAL COMPONENTS FOR THE CAMPUS AND THE DISTRICT FIBER RING AND SHALL REMAIN PROTECTED AND OPERATIONAL AT ALL TIMES.
- CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR DATA, VOICE, AND SECURITY CABLING BACK TO THE ORIGINAL RATING (BY DIVISION 28).
- 7. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED ALSS/STRUCTURES FOR DATA, VOICE, AND SECURITY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS (BY DIVISION 28)
- 8. THE CONTRACTOR SHALL CONFIRM THAT EACH SECURITY DEVICE TO BE REMOVED, STORED, AND RE-INSTALLED IS OPERATIONAL PRIOR TO BEGINNING WORK (BY DIVISION 28)
- CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING SECURITY DEVICES WITH ARCHITECT/DESIGN CONSULTANT AND OWNER DURING CONSTRUCTION (BY DIVISION 28).
- CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING SECURITY EQUIPMENT WITH THE ARCHITECT/DESIGN CONSULTANT AND OWNER DURING CONSTRUCTION (BY DIVISION 28)

KEYED NOTES - DEMOLITION:

APPROXIMATE LOCATION OF AREAS AFFECTED BY CONSTRUCTION. UNLESS NOTED OTHERWISE ALL EXISTING SECURITY PANEL(S), SECURITY DEVICE(S), AND ASSOCIATED SECURITY CABLING WITHIN THESE AREAS SHALL BE REMOVED. ALL ABANDONED SECURITY CABLING AND NON-REUSABLE SECURITY PATHWAYS SHALL BE REMOVED IN THEIR ENTIRETY (FROM END TO END). NO ABANDONED SECURITY CABLING IS TO BE LEFT ABOVE CEILING OR IN CONDUIT PATHWAYS. MATERIALS SHALL BE PROPERLY DISPOSED OF IN CONFORMANCE WITH THE LAHJ. (BY DIV. 28) NOTE: DOOR HARDWARE, ASSOCIATED PERIPHERAL DEVICES, EQUIPMENT, AND LOCAL CABLING IS BY DIVISION 08. COORDINATE WITH ARCHITECT AND DIVISION 08 FOR EXACT REQUIREMENTS.



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No. Description Date

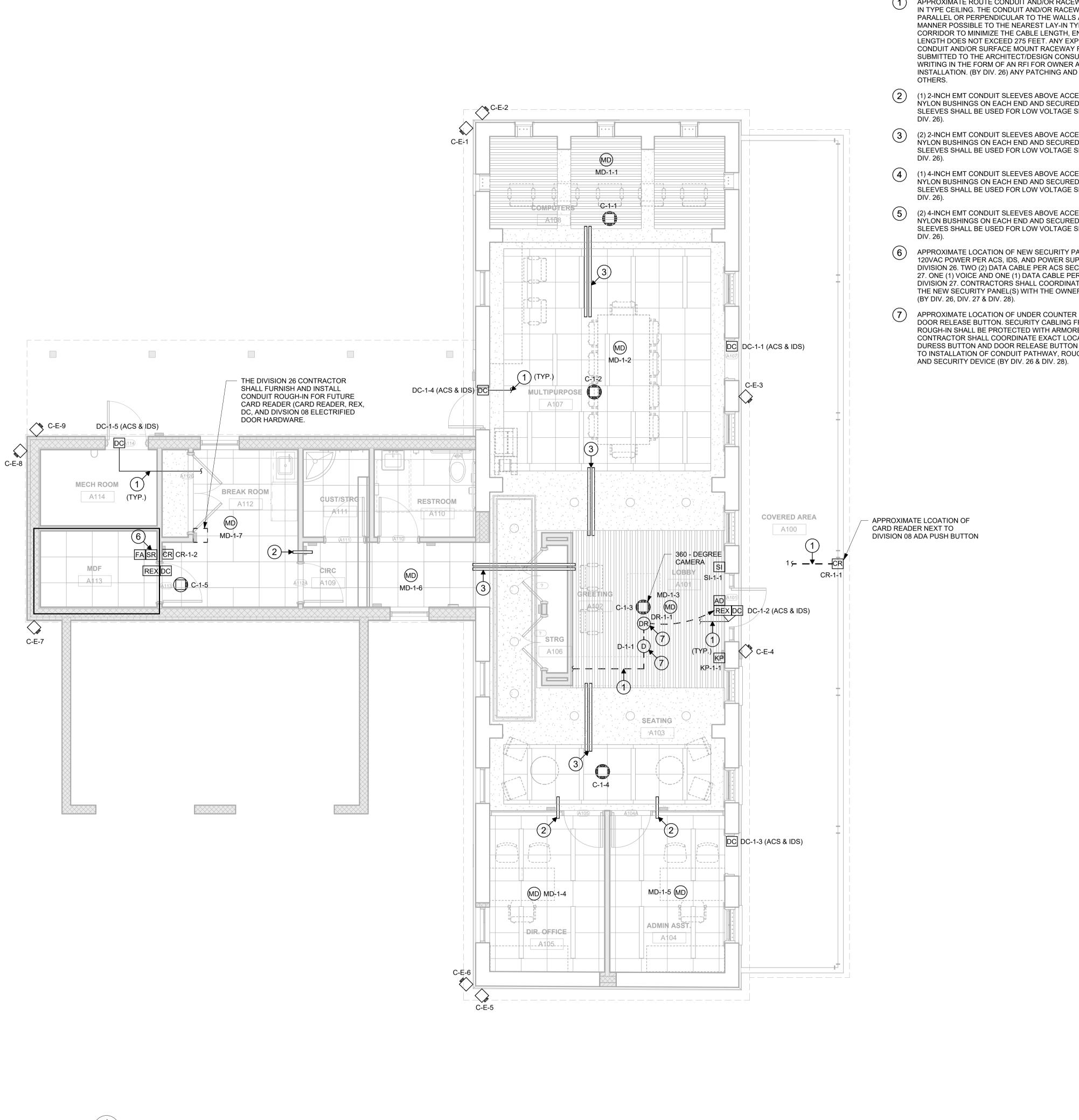
KEY PLA

SECURITY DEMO FLOOR PLAN

Drawn by:CCGChecked by:ERICProject number:Project NumberProject Issue Date:10/11/2024

TS100

1/4" = 1'-0"



APPROXIMATE ROUTE CONDUIT AND/OR RACEWAY SHALL TAKE TO A LAY- 1. IN TYPE CEILING. THE CONDUIT AND/OR RACEWAY SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE WALLS AND IN THE MOST DIRECT MANNER POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH, ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. ANY EXPOSED SURFACE MOUNT CONDUIT AND/OR SURFACE MOUNT RACEWAY REQUIRED SHALL BE SUBMITTED TO THE ARCHITECT/DESIGN CONSULTANT AND OWNER IN WRITING IN THE FORM OF AN RFI FOR OWNER APPROVAL PRIOR TO INSTALLATION. (BY DIV. 26) ANY PATCHING AND PAINTING REQUIRED BY

KEYED NOTES

- (1) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE SECURITY CABLE ONLY (BY
- (2) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE SECURITY CABLE ONLY (BY
- (1) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE SECURITY CABLE ONLY (BY
- (2) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NÝLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE SECURITY CABLE ONLY (BY
- APPROXIMATE LOCATION OF NEW SECURITY PANEL(S) BY DIVISION 28. 120VAC POWER PER ACS, IDS, AND POWER SUPPLY SECURITY PANEL BY DIVISION 26. TWO (2) DATA CABLE PER ACS SECURITY PANEL BY DIVISION 27. ONE (1) VOICE AND ONE (1) DATA CABLE PER IDS SECURITY PANEL BY DIVISION 27. CONTRACTORS SHALL COORDINATE THE EXACT LOCATION OF THE NEW SECURITY PANEL(S) WITH THE OWNER PRIOR TO INSTALLATION
- APPROXIMATE LOCATION OF UNDER COUNTER DURESS BUTTON AND DOOR RELEASE BUTTON. SECURITY CABLING FROM DURESS BUTTON TO ROUGH-IN SHALL BE PROTECTED WITH ARMORED CABLE (BY DIV. 28). CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UNDER COUNTER DURESS BUTTON AND DOOR RELEASE BUTTON WITH THE OWNER PRIOR TO INSTALLATION OF CONDUIT PATHWAY, ROUGH-IN, SECURITY CABLING

GENERAL NOTES

- THE CONTRACTOR SHALL READ AND REVIEW THE ASSOCIATED SPECIFICATIONS / DRAWINGS PRIOR TO BIDDING ON THIS WORK.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO PROVIDE A FULLY FUNCTIONAL TURNKEY SYSTEM REGARDLESS OF ANY ITEMS NOT LISTED OR DESCRIBED IN THIS
 - SPECIFICATION OR ASSOCIATED DRAWINGS. ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC.
 - INDICATED ON THE SECURITY DRAWINGS ARE TO BE PROVIDED AND INSTALLED (BY DIVISION 26). ALL POWER INDICATED ON THE SECURITY DRAWINGS SHALL BE
- CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR DATA, VOICE, AND SECURITY CABLING BACK TO THE ORIGINAL RATING (BY DIVISION 26 & 28).

PROVIDED AND INSTALLED (BY DIVISION 26).

- CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR DATA, VOICE, AND SECURITY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS (BY DIVISION 26 & 28).
- CABLING FOR DATA, VOICE, AND SECURITY SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VOICE, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC., (BY DIVISION 26 & 28).
- ALL CONDUITS FOR DATA, VOICE, AND SECURITY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE DATA ROOM TO MINIMIZE THE CABLE LENGTH (BY DIVISION 26).
- CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS (BY DIVISION 26).
- CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES (BY DIVISION 26).
- 11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION (BY DIVISION 26).
- 12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION (BY DIVISION 26).
- ALL DEVICES ARE SHOWN DIAGRAMMATICALLY. COORDINATE EXACT PLACEMENT WITH ARCHITECT/DESIGN CONSULTANT AND OWNER PRIOR TO INSTALLATION.
- 14. ALL CONDUITS FOR SECURITY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY-IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
- 15. CONTRACTOR SHALL REFER TO THE DOOR HARDWARE SPECIFICATIONS TO DETERMINE THE DOOR HARDWARE AND ASSOCIATED LOCK POWER REQUIREMENTS FOR EACH CARD READER / ACCESS CONTROLLED LOCATIONS AS IDENTIFIED ON THE TS-SERIES SHEETS (BY DIVISION 28)
- 16. CONTRACTOR SHALL REFERENCE THE T-SERIES SHEETS FOR ENLARGED PLANS & ELEVATIONS DRAWINGS FOR THE ACCESS CONTROL SYSTEM DEDICATED HIGH VOLTAGE POWER OUTLETS, DATA CABLES, AND PANEL LOCATION PROVISIONS WITHIN EACH ASSOCIATED MDF/IDF (BY DIV. 26, DIV. 27, AND DIV. 28)
- 17. SECURITY CONTRACTOR SHALL FURNISH AND INSTALL RS-485 COMMUNICATION CABLE(S) AS BETWEEN THE ACCESS CONTROL PANELS AND FROM THE MDF TO EACH ASSOCIATED IDF AS REQUIRED, IN ORDER TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL TURNKEY ACCESS CONTROL SYSTEM.
- 18. CONTRACTOR SHALL COORDINATE EXTERIOR CAMERA PLACEMENT(S) WITH THE LANDSCAPE CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN. IF TREES, SHRUBS, OR GUTTERS/DOWNSPOUTS OBSTRUCT THE CAMERA VIEW, THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT / DESIGN CONSULTANT / OWNER FOR RELOCATION OF EXTERIOR CAMERA(S).
- 19. CONDUIT / RACEWAY PATHWAYS FOR SECURITY CABLING ARE TO BE FIELD COORDINATED. CONTRACTOR MEANS AND METHODS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING SECURITY DEVICES IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- 20. CONTRACTOR IS RESPONSIBLE FOR INSTALLING SECURITY DEVICES IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.



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Description

KEY PLAN

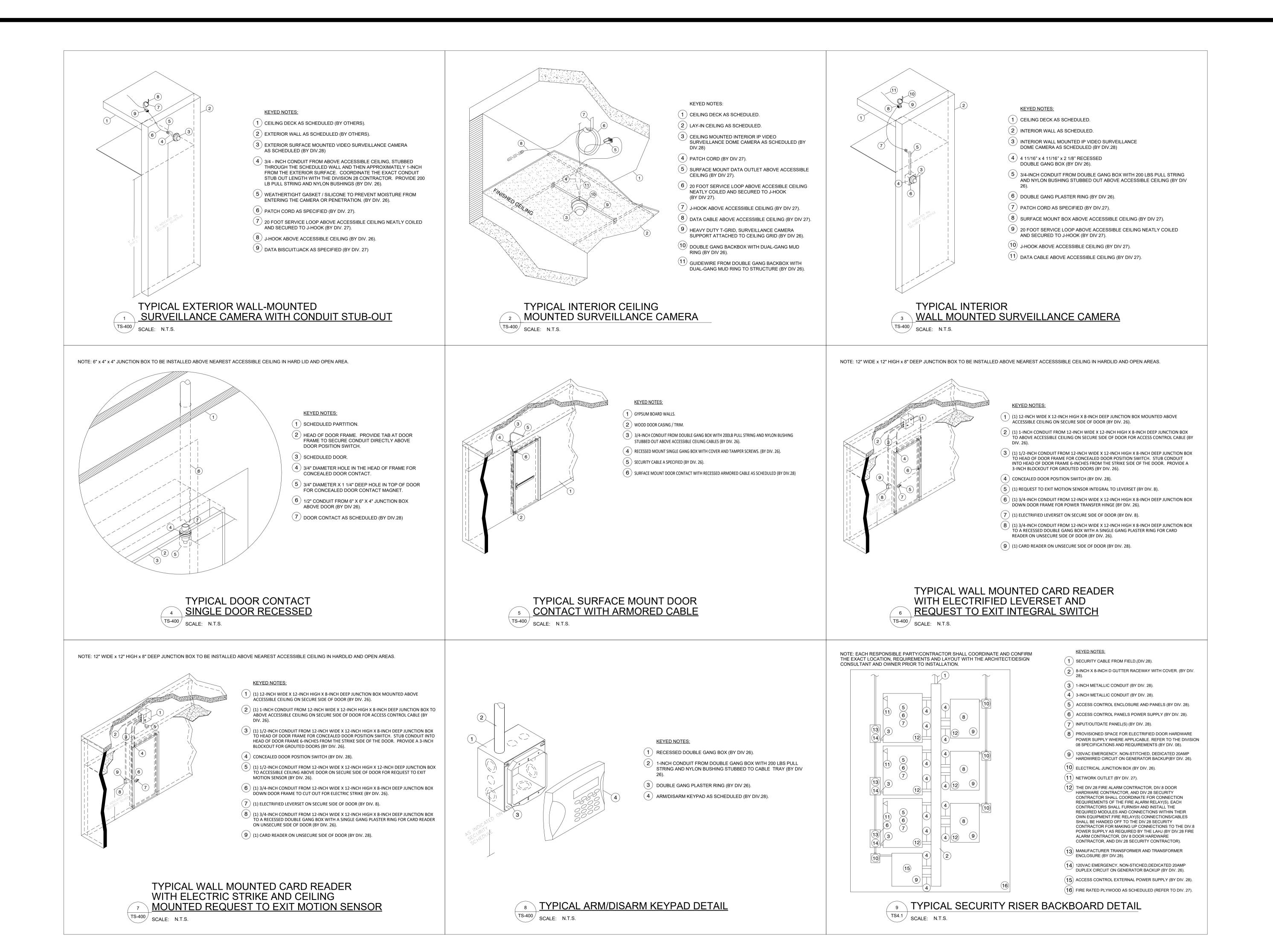
SECURITY 1st FLOOR PLAN

Drawn by: **ERIC** Checked by: Project Number Project number: 10/11/2024 Project Issue Date:

TS101

1/4" = 1'-0"

1 SECURITY 1st FLOOR PLAN \TS101/ 1/4" = 1'-0"



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Description

SECURITY TYPICAL DETAILS

Drawn by: Checked by: Project Number Project number: **Project Issue Date:**

TS401

3/4" = 1'-0"

ERIC

10/11/2024

LCC VETERANS HALL RENOVATIONS - VIDEO SURVEILLANCE SYSTEM DEVICE SCHEDULE

DEVICE SCHEDULE							
CAMERA NO.	CAMERA TYPE	INTERIOR / EXTERIOR	MOUNT	DEVICE HEIGHT (TO CENTER)	NOTES		
C-E-1	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-2	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-3	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-4	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-5	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-6	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-7	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-8	SINGLE LENS IP DOME	EXTERIOR	WALL	11-FEET A.F.G.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-E-9	SINGLE LENS IP DOME	EXTERIOR	WALL	9-FEET A.F.F.	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-1-1	SINGLE LENS 360 DEGREE IP DOME	INTERIOR	CEILING	N/A	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-1-2	SINGLE LENS 360 DEGREE IP DOME	INTERIOR	CEILING	N/A	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-1-3	SINGLE LENS 360 DEGREE IP DOME	INTERIOR	CEILING	N/A	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-1-4	SINGLE LENS 360 DEGREE IP DOME	INTERIOR	CEILING	N/A	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		
C-1-5	SINGLE LENS IP DOME	INTERIOR	CEILING	N/A	COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, CABLING, AND CAMERA INSTALLATION. COORDINATE FINAL CAMERA VIEWS WITH THE OWNER FOR FINAL ACCEPTANCE.		

LCC VETERANS HALL RENOVATIONS - ACCESS CONTROL SYSTEM DEVICE SCHEDULE

CARD READER #	DEVICE TYPE	MOUNT	DOOR TYPE	DEVICE HEIGHT (TO CENTER)	TERMINATION POINT	NOTES
CR-1-1	CARD READER	WALL	SINGLE	46-INCHES A.F.F.	MDF A113	COORDINATE EXACT REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN, CABLING, AND DEVICE INSTALLATION. COORDINATE WITH DIVISION 8 FOR DOOR HARDWARE REQUIREMENTS.
CR-1-2	CARD READER	WALL	SINGLE	46-INCHES A.F.F.	MDF A113	COORDINATE EXACT REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN, CABLING, AND DEVICE INSTALLATION. COORDINATE WITH DIVISION 8 FOR DOOR HARDWARE REQUIREMENTS.
DR-1-1	DOOR RELEASE BUTTON	UNDER DESK	SINGLE	SEE TYPICAL DETAIL	MDF A113	COORDINATE EXACT REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN, CABLING, AND DEVICE INSTALLATION. COORDINATE WITH DIVISION 8 FOR DOOR HARDWARE REQUIREMENTS.

LCC VETERANS HALL RENOVATIONS - INTRUSION DETECTION SYSTEM DEVICE SCHEDULE							
INTRUSI ON DEVICE#	DEVICE TYPE	MOUNT	DEVICE HEIGHT (TO CENTER)	TERMINATION POINT	NOTES		
DC-1-1	EXTERIOR DOOR CONTACT	SURFACE	N/A	MDF A113	CABLING FROM DOOR CONTACT SHALL BE PROTECTED WITH ARMORED JACKET.		
DC-1-2	EXTERIOR DOOR CONTACT	SURFACE	N/A	MDF A113	CABLING FROM DOOR CONTACT SHALL BE PROTECTED WITH ARMORED JACKET.		
DC-1-3	EXTERIOR DOOR CONTACT	SURFACE	N/A	MDF A113	CABLING FROM DOOR CONTACT SHALL BE PROTECTED WITH ARMORED JACKET.		
DC-1-4	EXTERIOR DOOR CONTACT	SURFACE	N/A	MDF A113	CABLING FROM DOOR CONTACT SHALL BE PROTECTED WITH ARMORED JACKET.		
DC-1-5	EXTERIOR DOOR CONTACT	RECESSED	N/A	MDF A113	CABLING FROM DOOR CONTACT SHALL BE PROTECTED WITH ARMORED JACKET.		
MD-1-1	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
MD-1-2	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
MD-1-3	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
MD-1-4	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
MD-1-5	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
MD-1-6	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
MD-1-7	PANORAMIC MOTION	CEILING	N/A	MDF A113	SECURITY DEVICE SHALL BE PROPERLY SUPPORTED.		
KP-1-1	KEYPAD	WALL	46-INCHES A.F.F.	MDF A113	KEYPAD WITH PROTECTIVE COVER		
S-1-1	HORN/SIREN	WALL	96-INCHES A.F.F.	MDF A113			
D-1-1	DURESS BUTTON	UNDER COUNTER	COORDINATE	MDF A113	(LATCHING) SECURITY CABLING FROM DURESS BUTTON TO ROUGH-IN SHALL BE PROTECTED WITH ARMORED CABLE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.		



Veterans Services Center

CONSTRUCTION DOCUMENTS



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No.	Description	Date

KEY PLAN

SECURITY SCHEDULES

Drawn by:CCGChecked by:ERICProject number:Project NumberProject Issue Date:10/11/2024

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