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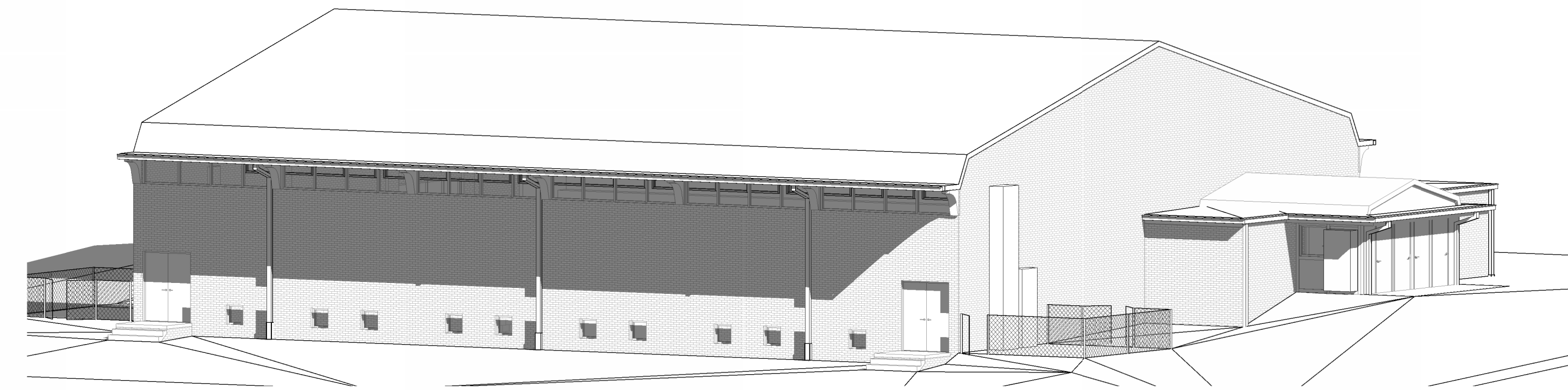
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PROJECT NUMBER: 02206.100

SET NUMBER: 11/22/23

BID SET

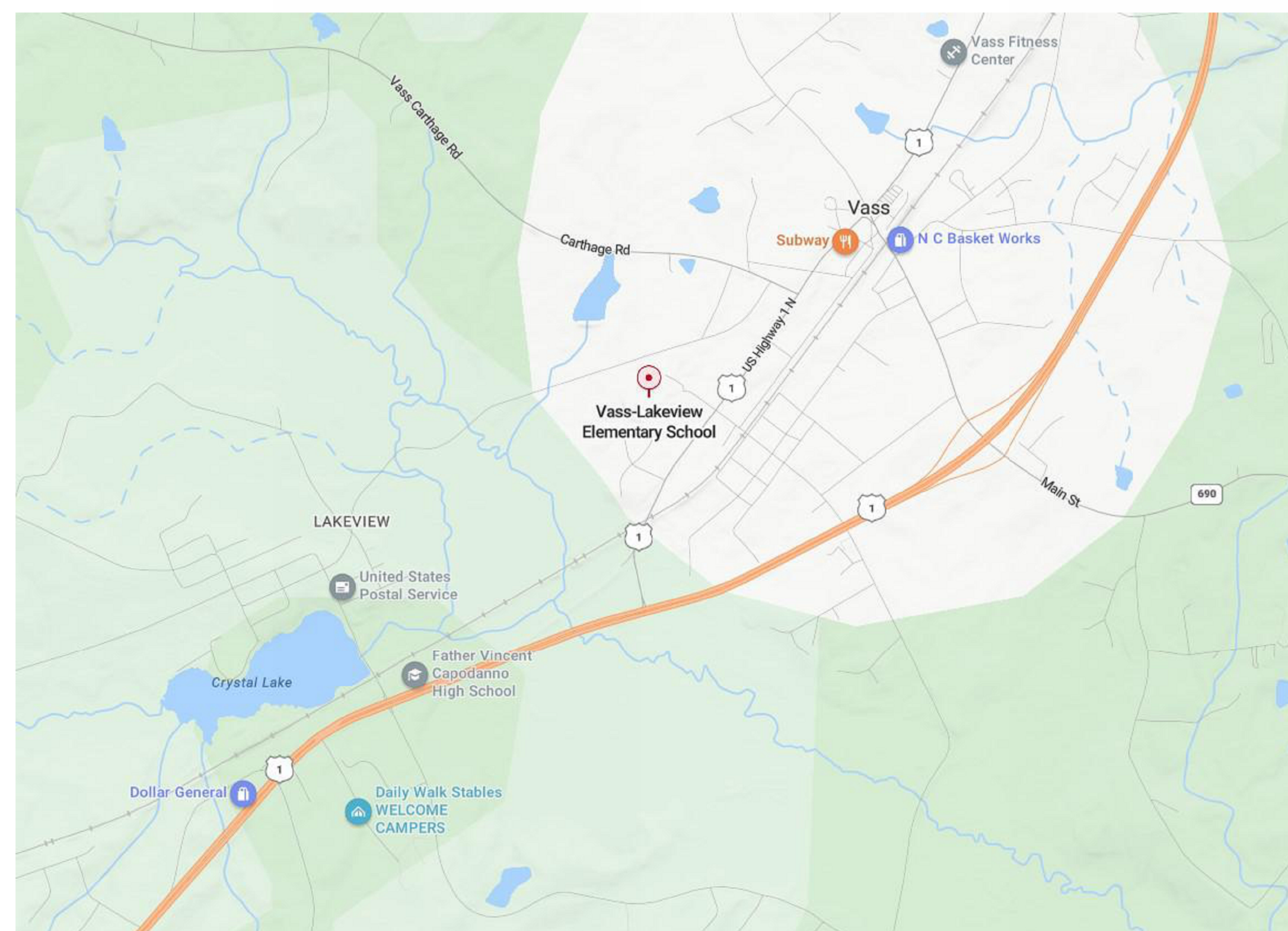
RENDERING



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- Grand total: 25

VICINITY MAP



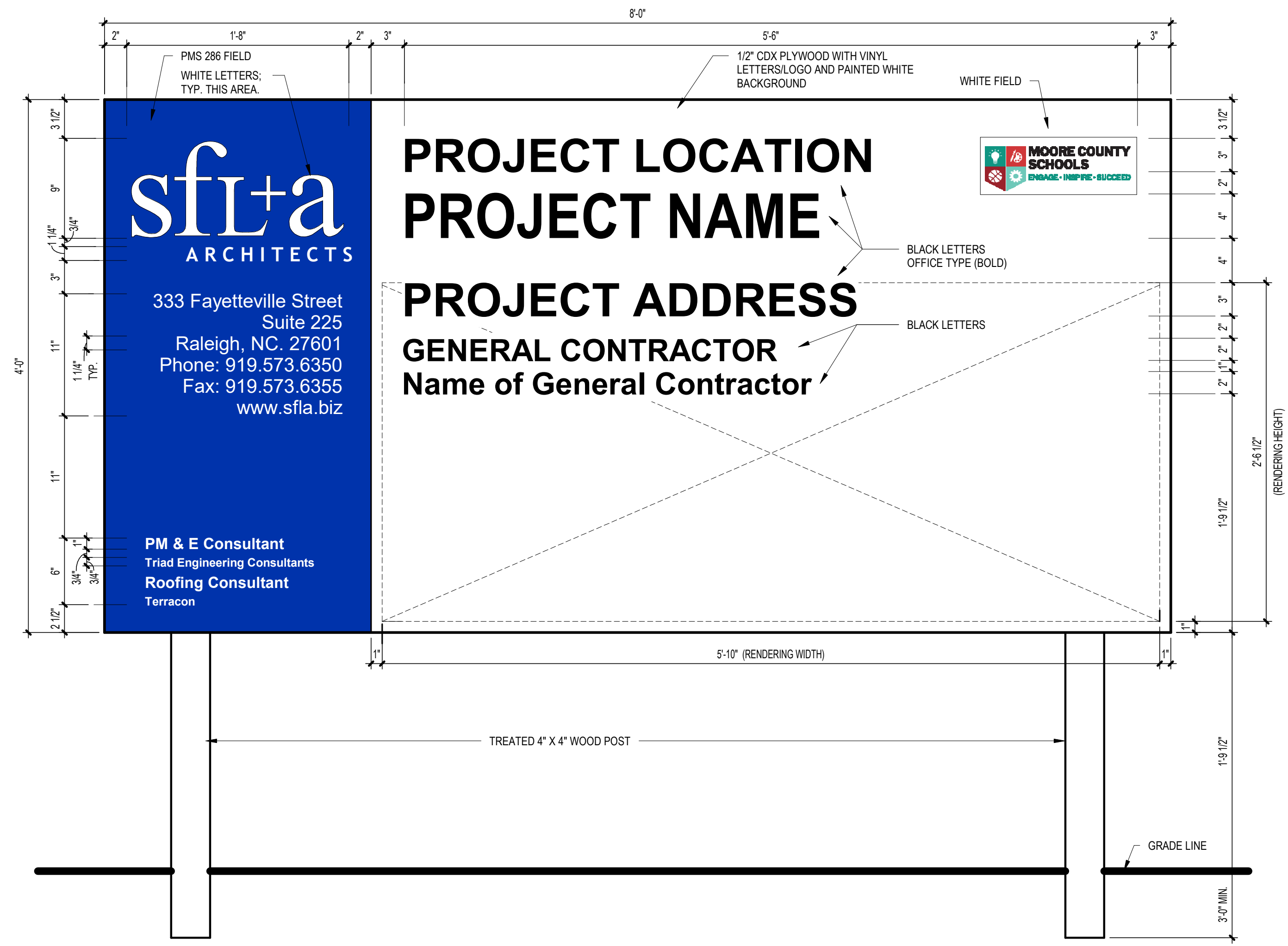
CONSULTANTS

PLUMBING / MECHANICAL /
ELECTRICAL ENGINEER

Triad Engineering Consultants, Inc.
2638 Willard Dairy Road, Suite 100
High Point, NC 27265
P. (336) 338-8943

ROOFING ENGINEER

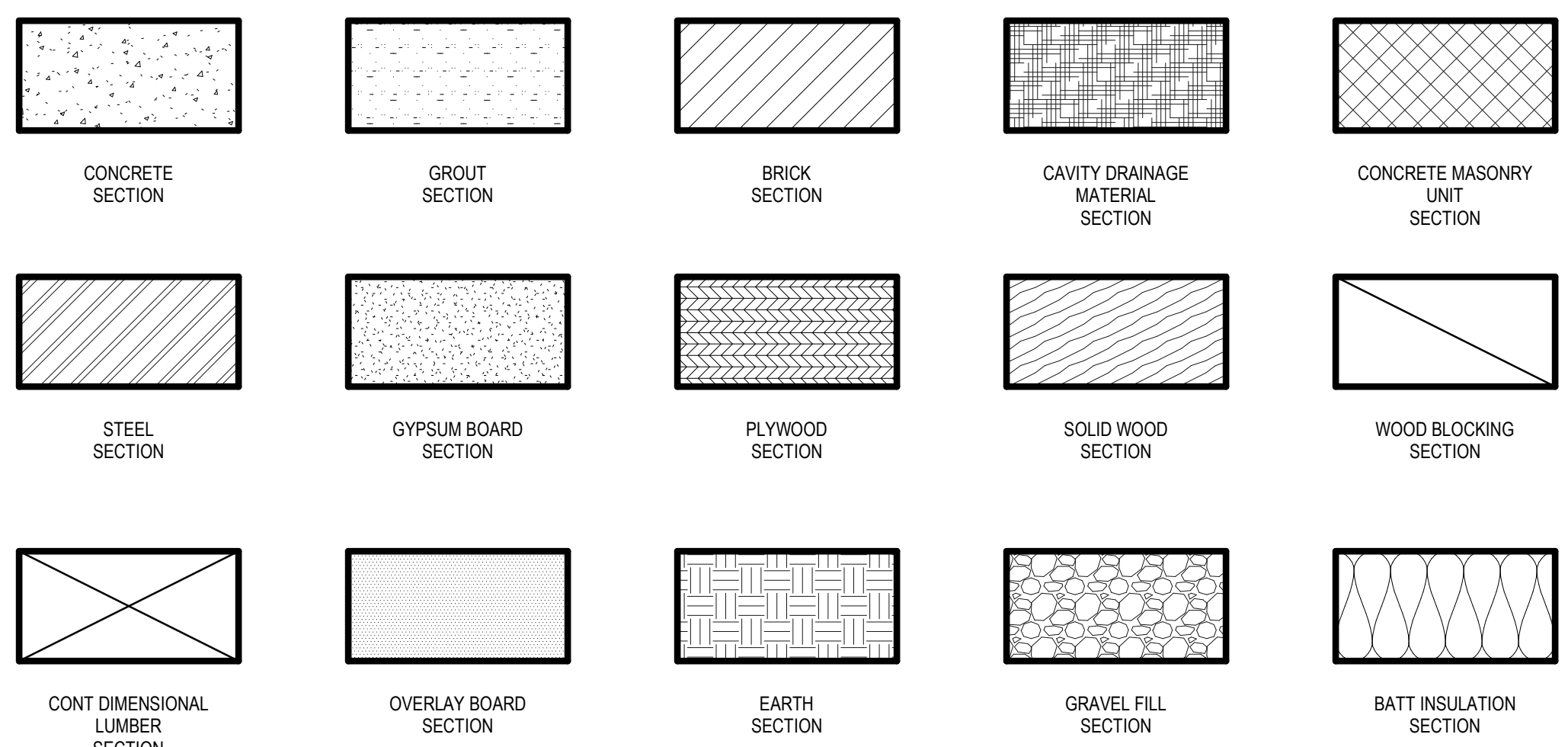
Terracon Consultants, Inc.
2701 Westport Road
Charlotte, NC 28208
P. (704) 594-8931



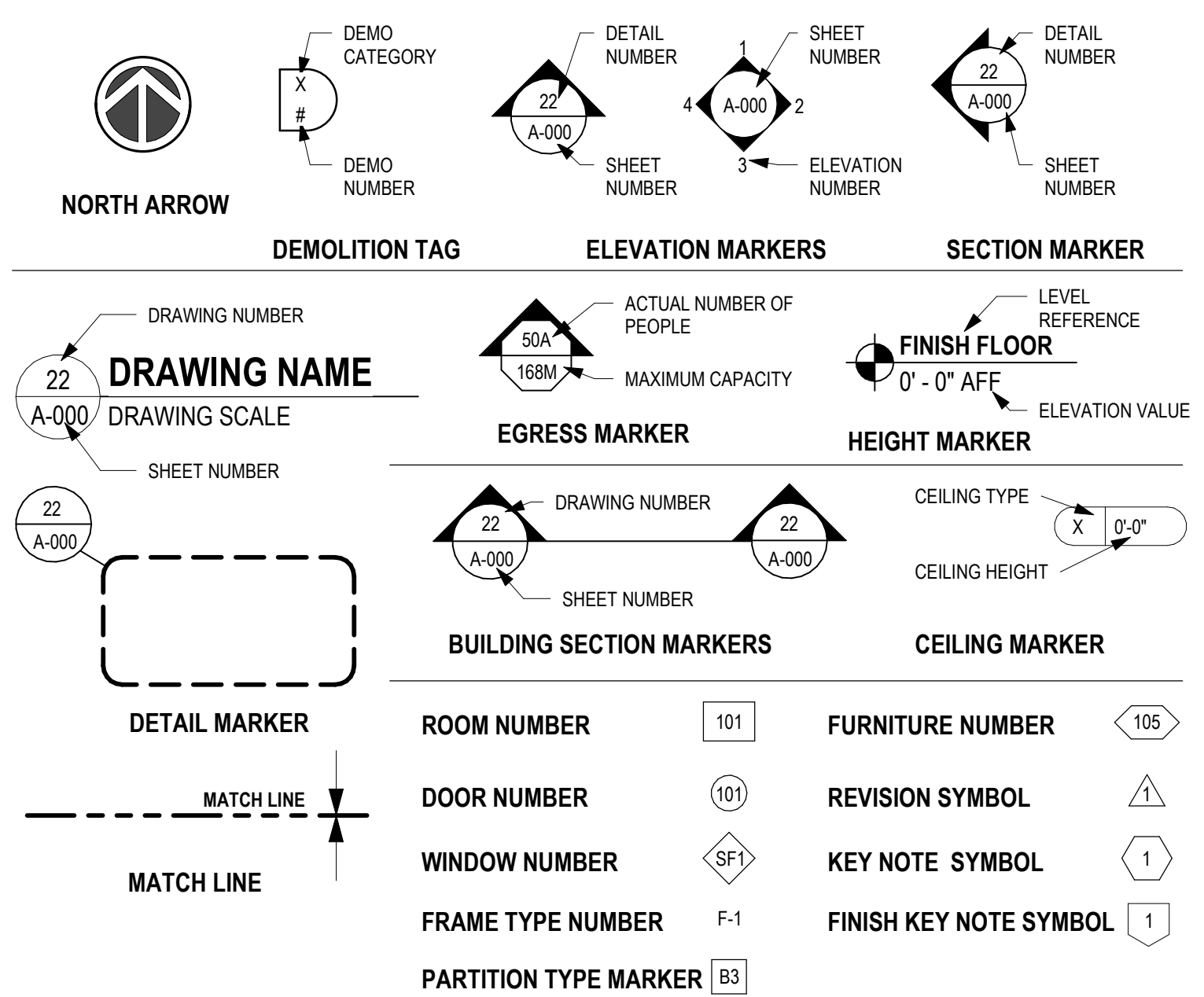
ABBREVIATIONS

A/C	AIR CONDITIONING	E	EAST	L	LENGTH	S	SOUTH
AB	ANCHOR BOLT	EA	EACH	LAB	LABORATORY	SAP	SUSPENDED ACOUSTICAL PANELS
AD	AREA DRAIN	EC	ELECTRICAL CONTRACTOR	LAD	LADDER	SB	SPLASH BLOCK
ADJ	ADJUSTABLE	EJ	EXPANSION JOINT	LAV	LAVATORY	SC	SOLID CORE
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC	LB	LAG BOLT	SCH	SCHEDULE
ALT	ALTERNATE	ELEV	ELEVATION	LBL	LABEL	SD	STORM DRAIN
ALM	ALUMINUM	EMER	EMERGENCY	LBS	POUND (S)	SEC	SECTION
AMP	AMPERE	ENCL	ENCLOSE (URE)	LH	LEFT HAND	SF	STOREFRONT
APPROX	APPROXIMATE	ENG	ENGINEER (ING)	LT	LIGHT	SIM	SIMILAR
ARCH	ARCHITECT (URAL)	EOD	EMERGENCY OVERFLOW DRAIN	LW	LIGHTWEIGHT	SND	SANITARY NAPKIN DISPOSAL
AUTO	AUTOMATIC	EP	ELECTRIC PANEL	LWC	LIGHTWEIGHT CONCRETE	SNV	SANITARY NAPKIN VENDOR
BB	BULLETIN BOARD	EQ	EQUAL	LVL	LAMINATED VENEER LUMBER	SP	SOUNDPROOF
BBRG	BEAM BEARING	EOP	EQUIPMENT	MAS	MASONRY	SPKR	SPEAKER
BD	BOARD	EST	ESTIMATE	MAT	MATERIAL (S)	SQ	SQUARE
BFF	BELOW FINISHED FLOOR	EWV	ELECTRIC WATER COOLER	MB	MARKER BOARD	SS	STAINLESS STEEL
BIT	BITUMINOUS	EXH	EXHAUST	MEB	MELBURN	STC	SOUND TRANSMISSION CLASS
BLDG	BUILDING	EXST	EXISTING	MC	MECHANICAL CONTRACTOR	STD	STANDARD
BLK	BLOCK (ING)	EXP	EXPANSION	MECH	MECHANICAL	STR	STRUCTURAL
BM	BENCH MARK	EXT	EXTERIOR	MED	MEDIUM	SUS	SUSPENDED
BOD	BOTTOM OF DECK	FA	FIRE ALARM	MFR	MANUFACTURE (R)	SYM	SYMMETRICAL SYSTEM
BTM	BOTTOM	FB	FACE BRICK	MN	MINIMUM	T	TREAD
BPL	BEARING PLATE	FD	FLOOR DRAIN	MIR	MIRROR	T&G	TONGUE AND GROOVE
BRG	BEARING	FDN	FOUNDATION	MISC	MISCELLANEOUS	TB	TACK BOARD
BSMT	BASEMENT	FE	FIRE EXTINGUISHER	MH	MANHOLE	TEL	TELEPHONE
BTW	BETWEEN	FEC	FIRE EXTINGUISHER CABINET	MEM	MEMBRANE	TEL	TELEPHONE
BUR	BUILT-UP ROOFING	FFE	FINISH FLOOR ELEVATION	MO	MASONRY OPENING	TG	TEMPERED GLASS
BW	BOTH WAYS	FHC	FIRE HOSE CABINET	MR	MOISTURE RESISTANT	THR	THRESHOLD
CB	CATCH BASIN	FIN	FINISH (ED)	MULL	MULLION	TP	TOILET PARTITION
CAB	CABINET	FLR	FLOOR (ING)	MTL	METAL	TOB	TOP OF BEAM
CEM	CEMENT	FLUR	FLUORESCENT	N	NORTH	TOF	TOP OF FOOTING
CER	CERAMIC	FLX	FLEXIBLE	NA	NOT APPLICABLE	TOM	TOP OF MASONRY
CF	CUBIC FOOT	FOB	FACE OF BRICK	NOT IN CONTRACT		TOS	TOP OF STEEL
CI	CAST IRON	FOGB	FACE OF GYPSUM BOARD	NCM	NOMINAL	TOW	TOP OF WALL
CIP	CAST-IN-PLACE	FR	FIREPROOF	NRC	NOISE REDUCTION COEFFICIENT	TS	TACK STRIP
CJ	CONTROL JOINT	FRM	FRAMING	NTS	NOT TO SCALE	TTD	TOILET TISSUE DISPENSER
CL	CENTERLINE	FRMG	FIRE-RESISTANT	OA	OVERALL	TYP	TYPICAL
CLG	CEILING	FRFT	FIRE-RETARDANT	OC	ON CENTER	UL	UNDERWRITERS LABORATORY
CLOS	CLOSET	FT	FOOT / FEET	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
CLR	CLEAR (ANCE)	FTG	FOOTING	OPG	OPENING	UR	URNAL
CM	COMPOSITE METAL PANEL	FUR	FURRED (ING)	OPH	OPPOSITE HAND	US	UTILITY SHELF
CMT	CERAMIC MOSAIC (TILE)	G	GAGE	OS	OVERFLOW SCUPPER	VCT	VINYL COMPOSITION TILE
CMU	CONCRETE MASONRY UNIT	GALV	GALVANIZED	OS	OVERFLOW SCUPPER	VERT	VERTICAL
COL	COLUMN	GB	GRAB BAR	PAR	PARALLEL	VEN	VENEER
CONC	CONCRETE	GBL	GLASS BLOCK	GC	GENERAL CONTRACT (OR)	VEN	VERIFY IN FIELD
CONSTR	CONSTRUCTION	GFR	GLASS FIBER RE. CONC.	GCMU	GLAZED CONC. MASONRY UNIT	VR	VAPOR RETARDER
CONTR	CONTRACT (ED)	GL	GLASS, GLAZING	GF	GROUND FACE	VTR	VENT THROUGH ROOF
CORR	CORRIDOR	GP	GALVANIZED PIPE	GFR	GLASS FIBER RE. CONC.	VWC	VINYL WALL COVERING
CPT	CARPET (ED)	GP	GALVANIZED PIPE	PCT	PORCELAIN CERAMIC TILE	W	WEST
CSMT	CASEMENT	GYP	GYPSUM	PERF	PERFORATED	WB	WOOD BASE
CT	CERAMIC TILE	GYP	GYPSUM	PERM	PERMETER	WC	WATER CLOSET
CTR	CENTER	GWB	GYPSUM WALL BOARD	PLAM	PLATE GLASS	WD	WOOD
CY	CUBIC YARD	H	HOSE BIBB	PLAS	PLASTER	WG	WIRE GLASS
DEMO	DEMOLISH, DEMOLITION	HC	HOLLOW CORE	PLF	POUNDS PER LINEAL FOOT	WH	WALL HUNG
DET	DETAIL	HD	HEAVY DUTY	PF	PRESSURE TREATED	WI	WROUGHT IRON
DF	DRINKING FOUNTAIN	HDR	HEADER	PRV	POWER ROOF VENT	WM	WIRE MESH
DH	DOUBLE HUNG	HW	HARDWARE	PTD	POUNDS PER SQUARE FOOT	WIO	WITHOUT
DIAM	DIAMETER	HMT	HOLLOW METAL	PSI	POUNDS PER SQUARE INCH	WP	WATERPROOFING
DM	DIMENSION	HJR	HORIZONTAL JOINT REINFORCEMENT	PWD	PAPER TOWEL DISPENSER	WT	WEIGHT
DISP	DISPENSER	HT	HEIGHT	PTN	PARTITION	WWF	WELDED WIRE FABRIC
DIV	DIVISION	HTG	HEATING	PVC	POLYVINYL CHLORIDE		
DL	DEAD LOAD	HND	HARDWOOD	PLY	PLYWOOD		
DM	DECORATIVE MASONRY	HWH	HOT WATER HEATER	QT	QUARRY TILE		
DPR	DAMPER	HVAC	HEATING / VENTILATING / A/C	R	RISER		
DR	DOOR	ID	INSIDE DIAMETER	RA	RETURN AIR		
DS	DOWNSPOUT	IN	INCH	RAD	RADIUS		
DT	DRAIN TILE	INCL	INCLUDE (D), (ING)	RB	RUBBER BASE		
DWG	DRAWING	INT	INTERIOR	RT	RUBBER TILE		
		INV	INVERT	RCP	REINFORCED CONCRETE PIPE		
		WB	INTERACTIVE WHITE BOARD	RD	ROOF DRAIN		
		JAN	JANITOR	REF	REFERENCE		
		JC	JANITOR'S CLOSET	REFR	REFRIGERATOR		
		JT	JOINT	REG	REGISTER		
		JST	JOIST	REQ	REQUIRED		
		KD	KNOCK DOWN	RET	RETURN		
		KIT	KITCHEN	REV	REVISION (S), REVISED		
		KPL	KICK PLATE	RM	ROOM		
				RO	ROUGH OPENING		

SYMBOLS LEGEND



KEY SYMBOLS LEGEND



GENERAL NOTES

- WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF METAL STUD, FACE OF STEEL OR CENTERLINE & STEEL COLUMN, UNLESS OTHERWISE NOTED. DETERMINE LOCATION OF WALLS NOT DIMENSIONED BY THEIR RELATION TO ADJACENT DIMENSIONED WALLS AND COLUMNS.
- ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT.
- MAINTAIN INTEGRITY OF ACOUSTICAL WALLS AND CEILING AT ALL WALL PENETRATIONS AND EQUIPMENT RECESSES.
- ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN CONCRETE SLAB.
- THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
- DOOR JAMB FROM INTERSECTING WALLS: STUD - 4" TYPICAL UNLESS OTHERWISE NOTED.
- CONTRACT SHALL AVOID THE USE OF DISSIMILAR METALS IN CONTACT WITH ONE ANOTHER AS MUCH AS POSSIBLE AND SHALL PROVIDE FELTS, BOND BREAKERS, TAPE, OR OTHER APPLICABLE MATERIAL SEPARATION WHERE SUCH CONTACT IS UNAVOIDABLE.

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No.	Date	Description

ISSUE DATE: 11/22/23
PROJECT #: 02206.100
DRAWN BY: JK
CHECKED BY: MK

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GENERAL NOTES, ABBREVIATIONS & LEGENDS

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: Vass-Lakeview Elementary Gymnasium Improvement
Address: 141 James Street, Vass, NC
Zip Code: 28384
Owner/Authorized Agent: Jennifer Parvis
Phone #:
E-Mail: jparvis@smccnc.edu

CONTACT:
FIRM: Sfi+a Architects
NAME: Mahan Kikk
LICENSE # : 919421-4574
mkkk@sfi+a.biz

2018 NC BUILDING CODE: Residential
2018 NC EXISTING BUILDING CODE: Alteration Level II
CONSTRUCTED: (date)
RENOVATED: (date)
RISK CATEGORY (Table 1008.5): Current: II Proposed: III

BASIC BUILDING DATA
Construction Type: III-B
Sprinklers: No
Stairwells: No
Primary Fire Barrier: No
Special Inspections Required: Yes

Table with 4 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL. Rows for 3rd Floor, 2nd Floor, Mezzanine, 1st Floor, and TOTAL.

2018 NC Administrative Code and Policies
Revised 6/15/2020

ALLOWABLE AREA

Primary Occupancy Classification: Educational
Accessory Occupancy Classification:
Special Uses (Chapter 4 - List Code Sections):
Mixed Occupancy:
Actual Area of Occupancy A + Actual Area of Occupancy B <= 1 Allowable Area of Occupancy A

Table with 6 columns: STORY NO., DEPARTMENT AND USE, FLOOR AREA PER STORY (ACTUAL), FLOOR AREA PER STORY (ALLOWABLE), AREA FOR FRONTAGE INCREASE, ALLOWABLE AREA PER STORY (ON UNLIMITED). Rows for 1 and 2.

1) Frontage area increases from Section 506.3 are computed based on:
a. Perimeter which forms a public way or open space having 20 feet minimum width = (P)
b. Total Building Perimeter = (P)
c. Ratio of (P) = 1 (P/P)

2018 NC Administrative Code and Policies
Revised 6/15/2020

FIRE PROTECTION REQUIREMENTS

Table with 10 columns: BUILDING ELEMENT, FIRE SEPARATION, RATING, RATING, RATING, RATING, RATING, RATING, RATING, RATING. Rows for Structural Frame, Primary Walls, Exterior, Fire Protection, Floor Construction, Column Supporting Deck, Roof Construction, Small Enclosures, and Counter Systems.

2018 NC Administrative Code and Policies
Revised 6/15/2020

PERCENTAGE OF WALL OPENING CALCULATIONS

Table with 4 columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINE, HEIGHT OF OPENING PROTECTION (FEET), ALLOWABLE AREA (%), ACTUAL OPENING AREA (%). Rows for North, South, West, East.

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Yes
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

- List of requirements for life safety systems including fire alarm, exit signs, emergency lighting, and occupancy load calculations.

2018 NC Administrative Code and Policies
Revised 6/15/2020

ACCESSIBLE DWELLING UNITS

Table with 7 columns: UNIT CLASSIFICATION, TOTAL UNITS, ACCESSIBLE UNITS, TYP. A UNITS, TYP. B UNITS, TYP. C UNITS, TOTAL ACCESSIBLE UNITS. Rows for ADA and TOTAL.

ACCESSIBLE PARKING

Table with 4 columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES, # OF ACCESSIBLE SPACES PROVIDED, TOTAL # OF ACCESSIBLE SPACES PROVIDED. Rows for ADA and TOTAL.

PLUMBING FIXTURE REQUIREMENTS

Table with 6 columns: USE, WATER FIXTURES, UNITS, LAVATORIES, SINKS, DRINKING FOUNTAINS. Rows for NEW and EXIST.

SPECIAL APPROVALS

Special approvals: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHHS, etc. describe below)
DPI Review

2018 NC Administrative Code and Policies
Revised 6/15/2020

ENERGY REQUIREMENTS

The following data shall be considered minimum, and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet.

Existing building envelope complies with code: Yes (NCECC, C385.1)

Exempt Building: No

Climate Zone: 3A
Method of Compliance: Energy Code, Prescriptive

THERMAL ENVELOPE

Roofing Assembly (each assembly):
Description of assembly: 2-ply mod bit
U-Value of total assembly: 0.039
R-Value of insulation: R-22

Walls below grade

Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly):
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

2018 NC Administrative Code and Policies
Revised 6/15/2020

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Snow (s), Seismic (s)
Live Load: Roof, Mezzanine, Floor
Ground Snow Load:
Wind Load: Ultimate Wind Speed, Exposure Category

SEISMIC DESIGN CATEGORY: Select one
Risk Category (Table 1604.2): Select one
Spectral Response Acceleration: S, T, Vg, S, T, Vg

SEISMIC DESIGN CATEGORY: Select one
Risk Category (Table 1604.2): Select one
Spectral Response Acceleration: S, T, Vg, S, T, Vg

LATERAL DESIGN CONTROL: Select one
SOIL BEARING CAPACITIES: Select one
Pile size, type, and capacity

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2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS SEE MECHANICAL DRAWINGS MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone: winter dry bulb, summer dry bulb
Interior design conditions: winter dry bulb, summer dry bulb, relative humidity
Building heating load:
Building cooling load:
Mechanical Spacing Conditioning System:
List equipment efficiencies:

2018 NC Administrative Code and Policies
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2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN SEE ELECTRICAL DRAWINGS ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

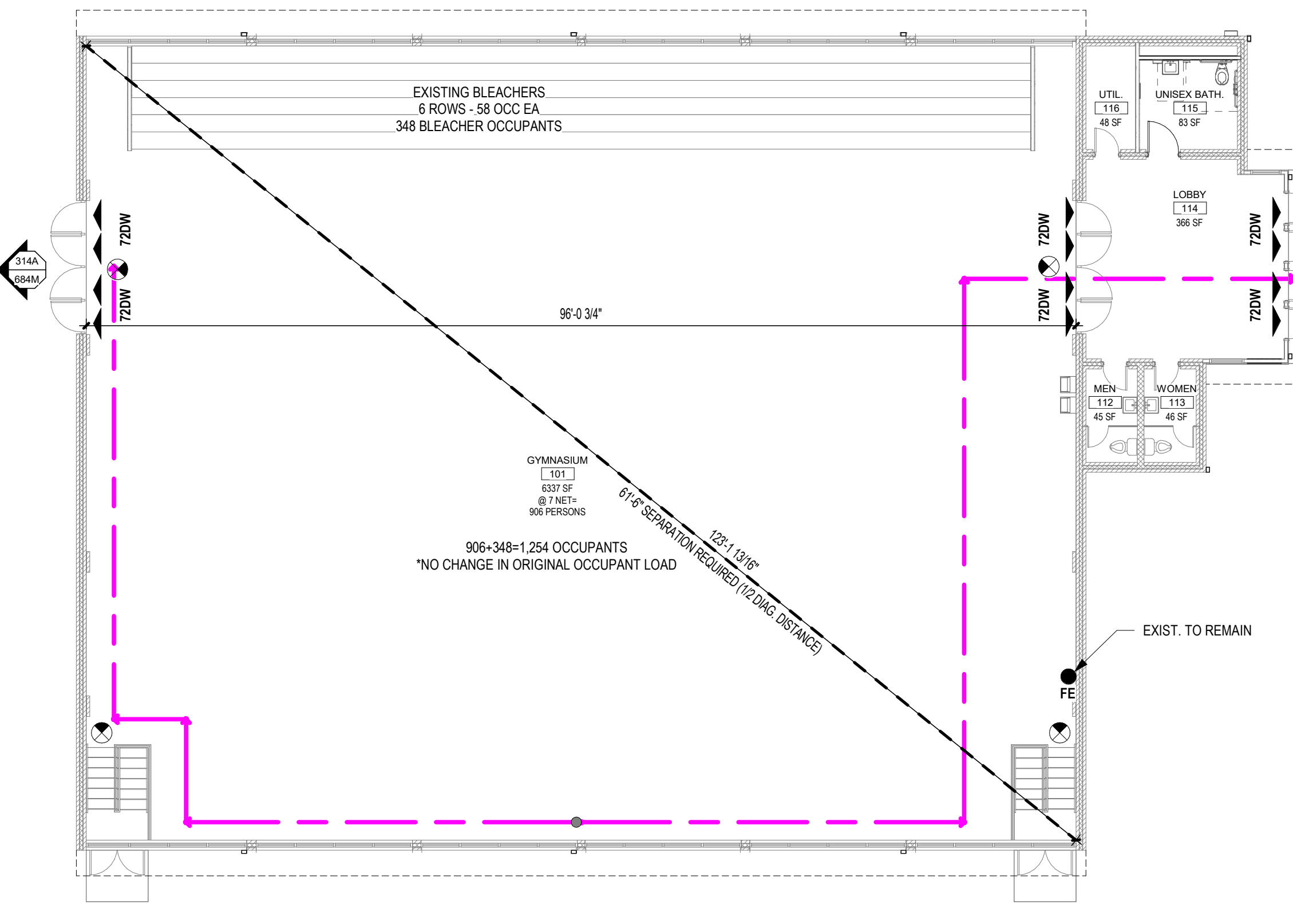
Method of Compliance: Select one
Lighting schedule (each fixture type):
Additional Efficiency Package Options (When using the 2018 NEC, not required for ASHRAE 90.1):

2018 NC Administrative Code and Policies
Revised 6/15/2020



BUILDING SEPARATION DISTANCE DIAGRAM

Table with 2 columns: ROOM, TRAVEL DISTANCE. Rows for GYMNASIUM PATH 1 and GYMNASIUM PATH 2.



LIFE SAFETY PLAN SCALE: 3/32" = 1'-0"

Advertisement for Sfi+a Architects, including contact information and a professional seal for Jennifer Parvis, License # 16447, dated 11/22/2023.

BID SET

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Table with 3 columns: No., Date, Description. Rows for project schedule items.

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BUILDING CODE SUMMARY



#1: PLAN WEST FACADE



#2: PLAN SOUTHWEST CORNER/PLAN SOUTH FACADE



#3: PLAN NORTHEAST CORNER



#4: PLAN EAST ELEVATION



#5: PLAN NORTHEAST CORNER/PLAN NORTH ELEVATION



#6: GYM LOOKING PLAN WEST FROM LOBBY



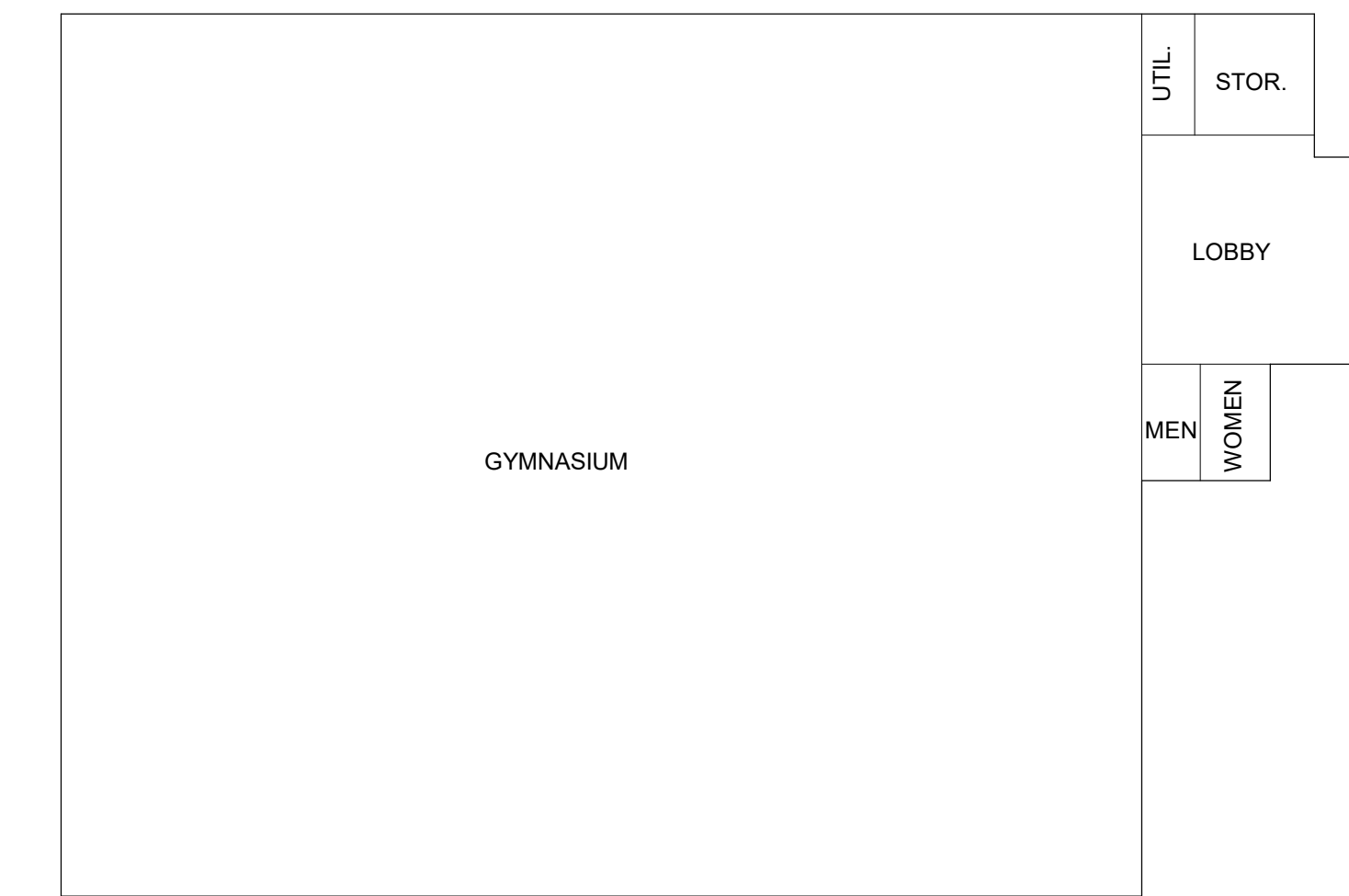
#7: GYM LOOKING PLAN EAST TOWARDS LOBBY



#8: BASEMENT STAIRS AT GYM EAST END



SEE SHEET A-111 DEMO PLAN - AREA OF DEMOLITION
 PICTURES ARE FOR INFORMATION ONLY - CONTRACTOR'S SHALL VISIT SITE AND VERIFY EXISTING CONDITIONS FOR PROPER COORDINATION OF DEMOLITION AND NEW WORK FOR THIS PROJECT.



EXIST. BUILDING KEY PLAN
 SCALE: 1/16" = 1'-0"



#9: GIRLS LOCKER ROOM IN BASEMENT



#10: BOYS LOCKER ROOM IN BASEMENT



#11: LOBBY



#12: LOBBY UTILITY ROOM



#13: LOBBY STORAGE



#14: LOBBY



#15: LOBBY



#16: LOBBY MENS ROOM

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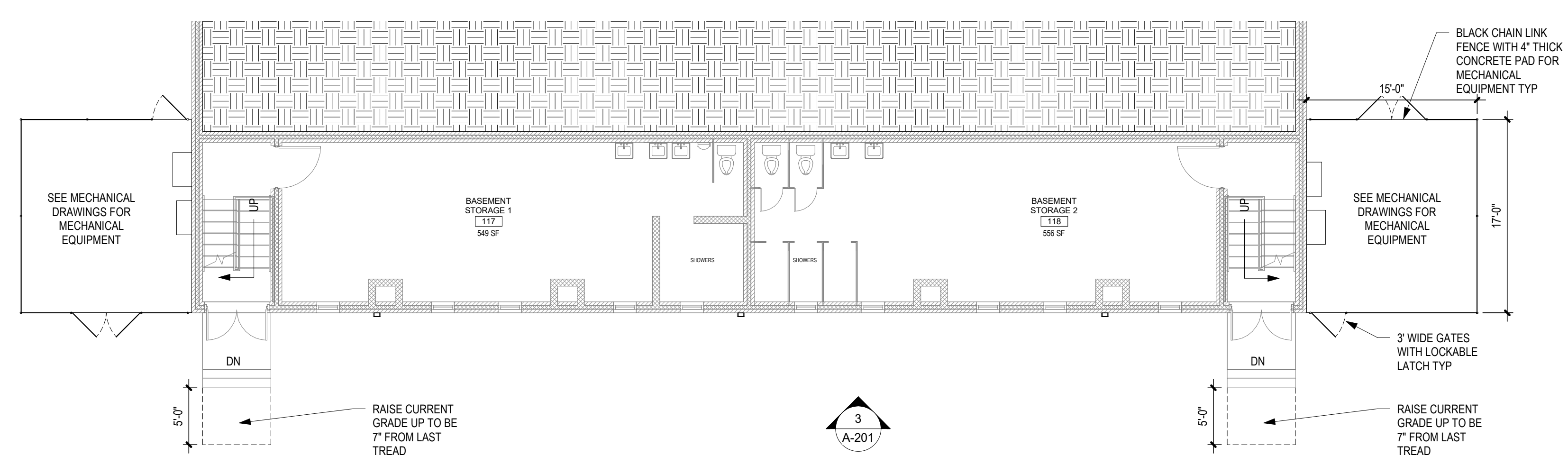
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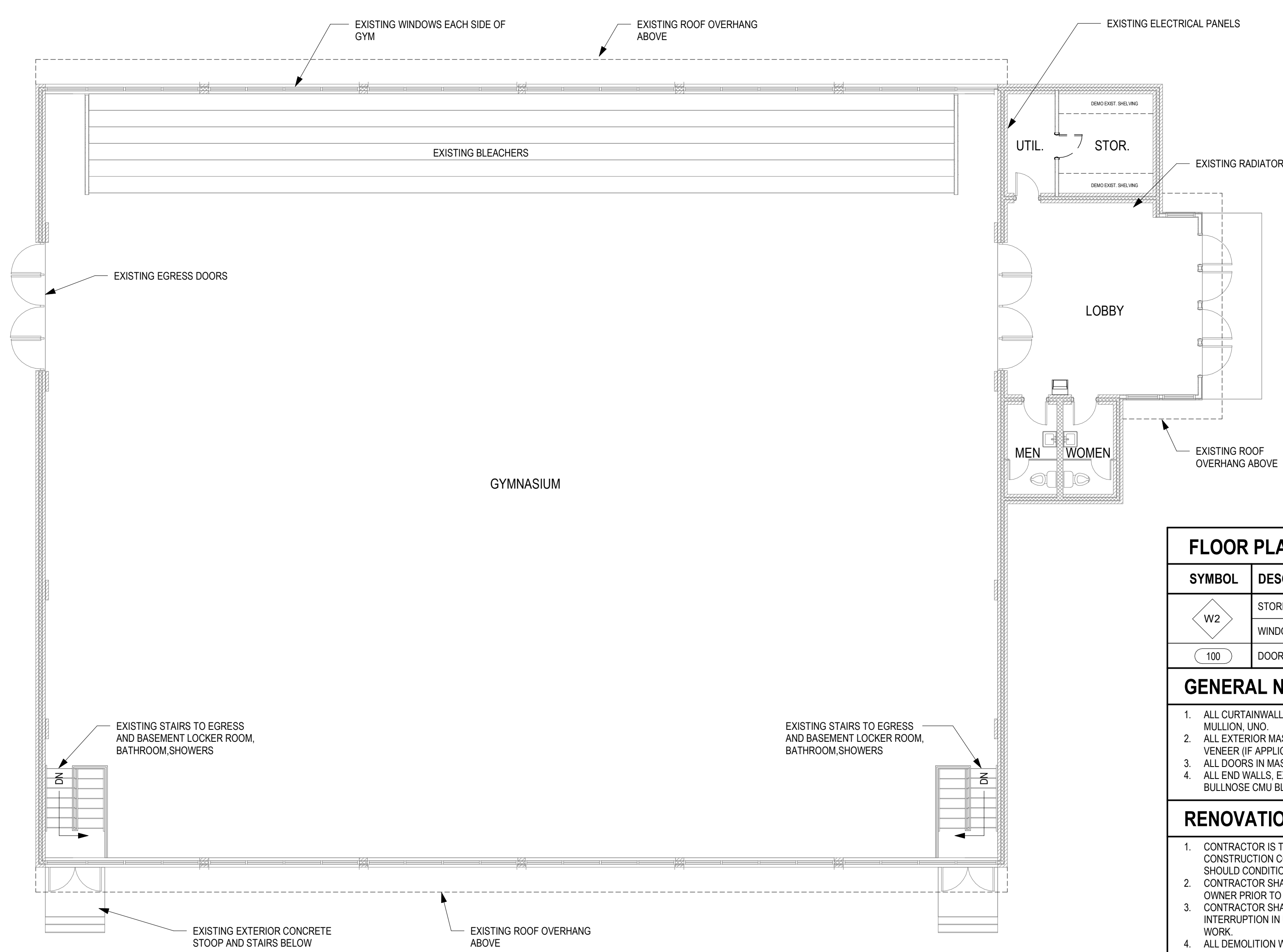
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EXISTING BUILDING PICTURES

BID SET



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



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

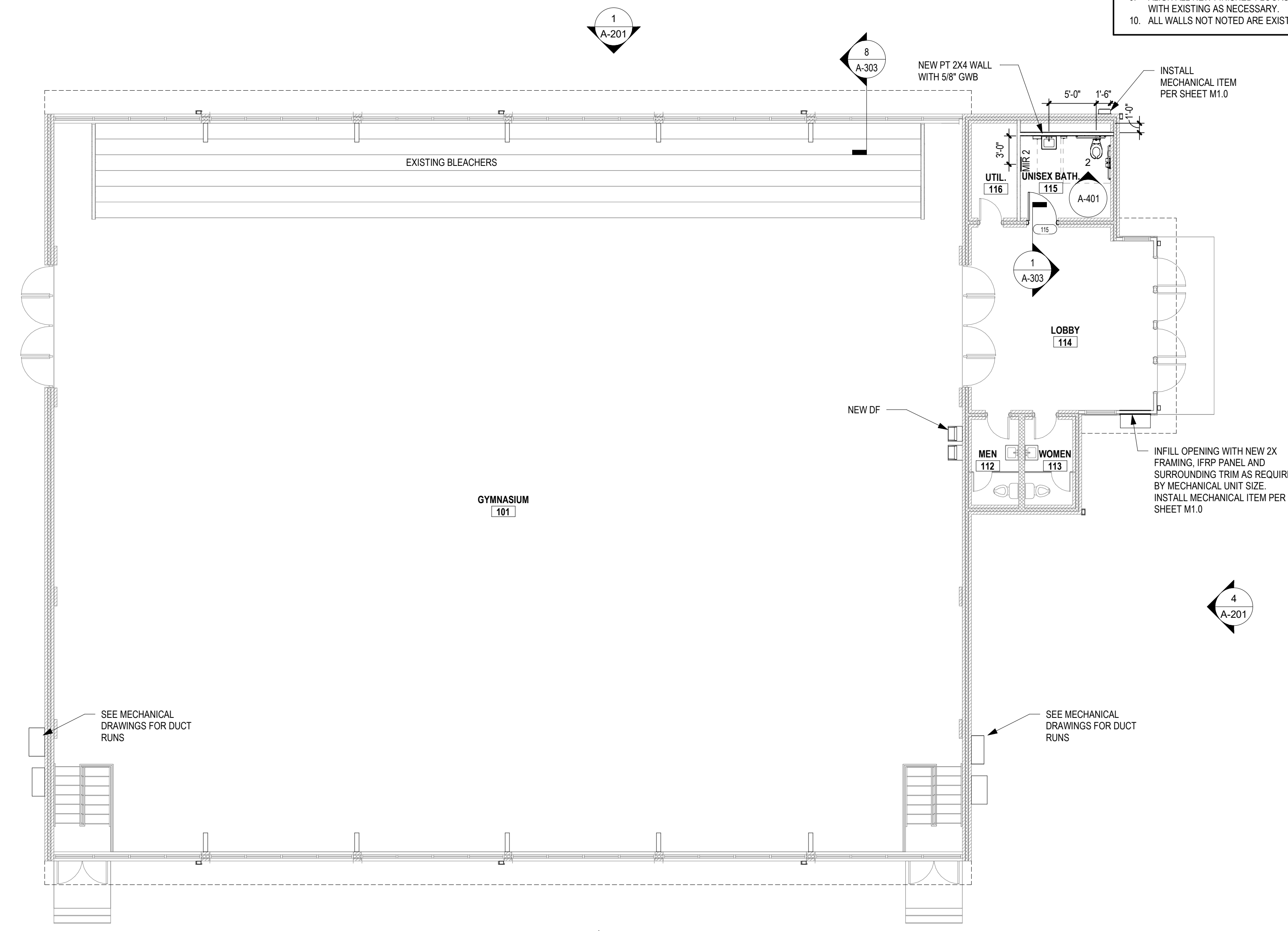
FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
W2	STOREFRONT (CW WALL) TAG - SEE SHEET A401 AND FLOOR PLANS
W	WINDOW TAG - SEE SHEET A401 AND FLOOR PLANS
100	DOOR TAG - SEE SHEET A401 AND FLOOR PLANS

GENERAL NOTES:

- ALL CURTAINWALL (CW) AND STOREFRONT (SF) DIMENSIONED TO FACE OF MULLION, UNO.
- ALL EXTERIOR MASONRY DIMENSIONED TO EXTERIOR FACE OF BRICK VENEER (IF APPLICABLE). IF NO VENEER, TO EXTERIOR FACE OF CMU, UNO.
- ALL DOORS IN MASONRY DIMENSIONED TO MASONRY OPENING.
- ALL END WALLS, EXTERIOR CORNERS AND PLASTERS TO RECEIVE BULLNOSE CMU BLOCK.

RENOVATION NOTES:

- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION COMMENCEMENT. CONTRACTOR TO NOTIFY SFL+A SHOULD CONDITIONS DIFFER FROM WHAT IS DRAWN.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE OWNER PRIOR TO THE START OF WORK.
- CONTRACTOR SHALL NOTIFY THE OWNER IN ADVANCE OF ANY INTERRUPTION IN UTILITY SERVICES NECESSARY TO COMPLETE THE WORK.
- ALL DEMOLITION WORK SHALL BE PERFORMED DURING TIMES APPROVED BY AND ACCEPTABLE TO THE OWNER. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE NOISE AND CONTROL DUST/DEBRIS MIGRATION SO AS TO AVOID DISTURBANCES TO SCHOOL ACTIVITIES, AS MUCH AS POSSIBLE, FOR THE DURATION OF THE WORK.
- ALL ITEMS WHICH ARE EXISTING AND TO REMAIN SHALL BE PROTECTED FOR THE DURATION OF THE WORK. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING ITEMS CAUSED BY THE WORK TO LIKE NEW CONDITION AT NO COST TO THE OWNER.
- ITEMS NOTED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, UNO ON THE DRAWINGS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SUPPORTS, FASTENERS, FINISHES, TRACKS, TRANSITIONS, ETC. CONTRACTOR SHALL PATCH AND REPAIR SUBSTRATES AS NECESSARY TO RECEIVE NEW FINISHES.
- PATCH ALL DISTURBED AREAS TO MATCH EXISTING.
- EXTEND EXISTING UTILITIES AS REQUIRED.
- ALIGN ALL NEW FINISHED FLOORS, CEILINGS, WALLS, SOFFITS AND ROOFS WITH EXISTING AS NECESSARY.
- ALL WALLS NOT NOTED ARE EXISTING AND TO REMAIN.



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

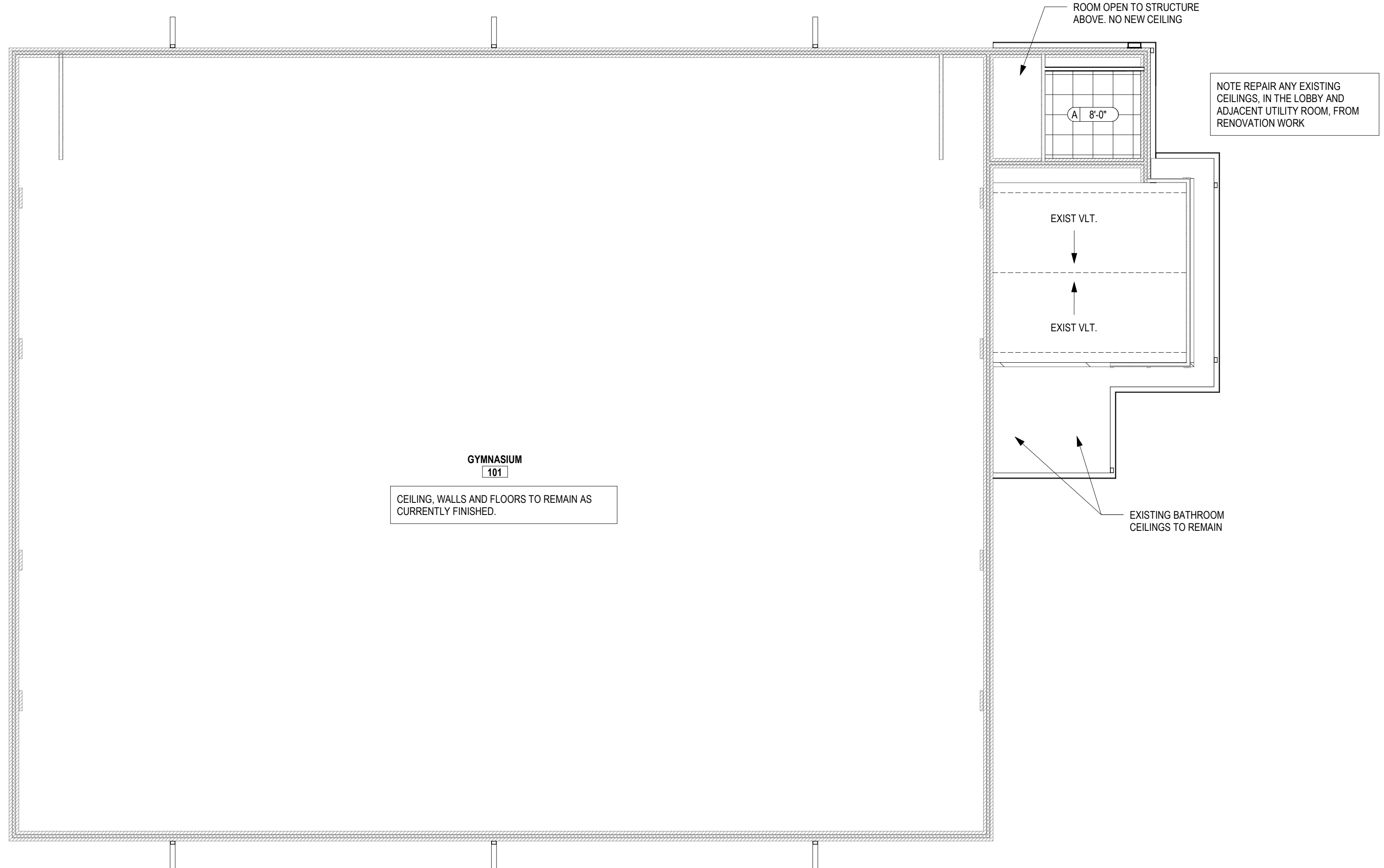
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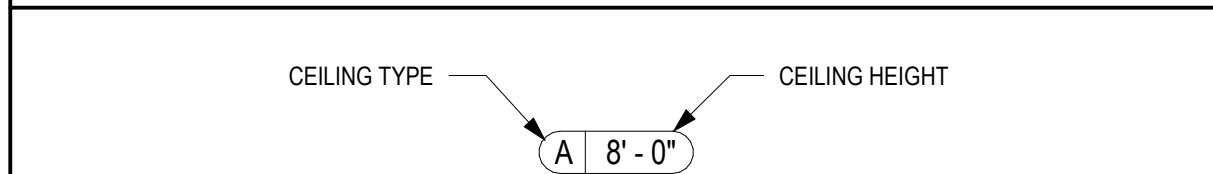
FLOOR PLANS -
DEMOLITION AND
RENOVATION

A-111



1
A-121 REFLECTED CEILING PLAN - NEW ONLY (EXISTING CEILINGS TO REMAIN)
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND



SYMBOL	DESCRIPTION
	2' x 2' ACOUSTICAL CEILING PANELS TYPE "A": TYPICAL PANELS (EA INDICATES EXISTING) TYPE "B": IMPERVIOUS PANELS (EB INDICATES EXIST)
	2' x 2' ACOUSTICAL CEILING PANELS TYPE "C": WOOD ACOUSTICAL PANELS
	2' x 4' ACOUSTICAL CEILING PANELS TYPE "D": TYPICAL PANELS TYPE "ED": INDICATES EXIST
	GYPSUM WALL BOARD CEILING TYPE "E": TYPICAL CEILING SYSTEM, PAINTED TYPE "EE": EXISTING CEILING, PAINTED *
	EXISTING SUSPENDED ACOUSTICAL CEILING PANELS TO REMAIN - PAINT CEILING AND GRID PNT-3. TYPE "EP": EXISTING PAINTED CEILING PANELS
	EXTERIOR EMERGENCY LIGHT
	LED EXIT SIGN
	EMERGENCY LIGHT
	DOWNLIGHT - SEE ELECTRICAL
	EXISTING FIXTURE TO BE RELOCATED - SEE ELECT
	DECORATIVE PENDANT
	EXISTING FIXTURE TO BE RELOCATED - SEE ELECT
	2X2 RECESSED FLUORESCENT
	EXISTING FIXTURE TO BE RELOCATED - SEE ELECT
	FLUORESCENT STRIP LIGHT
	EXISTING FIXTURE TO BE RELOCATED - SEE ELECT
	STRAIGHT NARROW FIXTURE
	2X2 ACRYLIC LAY-IN FLUORESCENT
	DECORATIVE LINEAR PENDANT
	2X4 ACRYLIC LAY-IN FLUORESCENT
	DECORATIVE DRUM PENDANT
	DECORATIVE SQUARE PENDANT
	TRACK LIGHTING
	DIFFUSER - SEE ELECTRICAL
	RETURN - SEE ELECTRICAL
	DIFFUSER - SEE ELECTRICAL
	SMOKE DETECTOR (SHALL BE 3' - 0" MIN FROM ANY AIR SUPPLY/RETURN) - SEE ELECTRICAL
	HEAT DETECTOR (SHALL BE 3' - 0" MIN FROM ANY AIR SUPPLY/RETURN) - SEE ELECTRICAL
	ADA COMPLIANT FIRE ALARM STROBE LIGHT - SEE ELECTRICAL
	ADA COMPLIANT FIRE ALARM STROBE LIGHT - SEE ELECTRICAL
	DATA OUTLET (WIRELESS ROUTER LOCATION IS ABOVE CEILING) - SEE ELECTRICAL
	OCCUPANCY SENSOR - SEE ELECTRICAL
	POWER AND DATA - SEE ELECTRICAL

RCP GENERAL NOTES:

- REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION.
- COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR.
- EXISTING FIXTURES AND CEILING EQUIPMENT TO REMAIN IS INDICATED BY GRAY LINEWORK. SEE ELECTRICAL AND MECHANICAL FOR CLARIFICATION OF EXISTING AND NEW.
- ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE TO BE PAINTED.
- VIF EXISTING CEILING HEIGHTS.
- PATCH/REPAIR EXISTING GYP BD PRIOR TO PAINTING.

MOORE COUNTY SCHOOLS
VASS-LAKEVIEW ELEM. GYM. RENO.
 141 JAMES ST., VASS NC 28394

No.	Date	Description

ISSUE DATE: 11/22/23
 PROJECT #: 02206,100
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RENOVATION
 REFLECTED CEILING
 PLAN

NEW 2 PLY MODIFIED BITUMEN ROOF REMOVE EXISTING ROOF MEMBRANE DEMO FINISHED ROOF DOWN TO EXISTING WOOD DECK. REINFORCE WITH NEW DAMAGED OR DISCARDED WOOD.

NEW GUTTER AND DOWNSPOUTS REPLACE EXISTING WOOD FASCIA WITH NEW METAL WRAPPED FASCIA TYPICAL ALL SIZES OF UPPER ROOF.

EXISTING 30 METAL DECK TO BE REPLACED WITH NEW SHINGLED ROOF

NEW TAPERED INSULATION WITH GUTTER AND DOWNSPOUTS

NEW 2 PLY MODIFIED BITUMEN ROOF (REMOVE EXISTING ROOF MEMBRANE, COVER BOARD AND INSULATION) DEMO FINISHED ROOF DOWN TO EXISTING CONCRETE.

NEW FLASHING ALONG LOW PITCH ROOF AND ALONG NEW ROOF ADJACENT BRICK WALL.

REPLACE EXISTING 30 METAL ROOF WITH NEW ASPHALT SHINGLED ROOF TO MATCH UPPER ROOF.

NEW FLASHING ALONG LOW PITCH ROOF AND ALONG NEW ROOF ADJACENT BRICK WALL.

NEW 2 PLY MODIFIED BITUMEN ROOF (REMOVE EXISTING ROOF MEMBRANE, COVER BOARD AND INSULATION) DEMO FINISHED ROOF DOWN TO EXISTING CONCRETE.

NEW TAPERED INSULATION WITH GUTTER AND DOWNSPOUTS

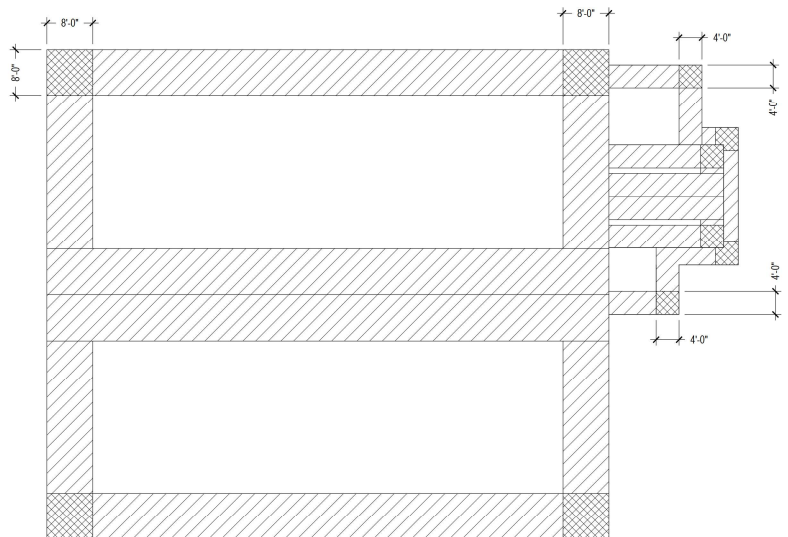
NEW ASPHALT SHINGLED ROOF

NEW 2 PLY MODIFIED BITUMEN ROOF REMOVE EXISTING ROOF MEMBRANE DEMO FINISHED ROOF DOWN TO EXISTING WOOD DECK. REINFORCE WITH NEW DAMAGED OR DISCARDED WOOD.

NEW GUTTER AND DOWNSPOUTS REPLACE EXISTING WOOD FASCIA WITH NEW METAL WRAPPED FASCIA TYPICAL ALL SIZES OF UPPER ROOF.

EXISTING 30 METAL ROOF TO BE REPLACED WITH NEW SHINGLED ROOF

1 ROOF PLAN 18'-10"



2 WIND ZONE PLAN 18'-10"

CONSTRUCTION NOTES

- DEMOLITION
 - REMOVE EXISTING ROOFING DOWN TO DECK AND REPLACE WITH NEW ROOFING SYSTEM.
 - REMOVE EXISTING GUTTERS AND DOWNSPOUTS AND DISCARD.
 - AT ABANDONED EQUIPMENT THAT IS REMOVED, COVER OPENINGS AS DESCRIBED IN SPECIFICATION SECTION 07 00 ROOFING PREPARATION.
 - REMOVE DAMAGED/DETERIORATED WOOD BLOCKING AND WOOD FASCIA AND DISCARD.
 - REMOVE DAMAGED/DETERIORATED TONGUE AND GROOVE WOOD FLANK DECKING AND DISCARD.
 - WHERE EXISTING SANITARY VENT PIPE PENETRATIONS ARE WITHIN 12 INCHES OF WALL, MODIFY, EXTEND, AND RELOCATE PENETRATION TO PROVIDE MINIMUM CLEARANCE OF 12 INCHES FROM WALL.
- NEW ROOFING CONSTRUCTION
 - INSTALL NEW 2 PLY MODIFIED BITUMEN ROOFING SYSTEM. REFER TO SPECIFICATION SECTION 07 25 20 SBS MODIFIED BITUMEN MEMBRANE ROOFING FOR TOTAL SYSTEM INCLUDING COVERBOARD, TAPERED, AND BASE LAYER INSULATION.
 - PROVIDE NEW GUTTERS AND DOWNSPOUTS. DOWNSPOUTS ARE TO BE CONNECTED TO EXISTING DOWNSPOUT BOOT.
 - REPLACE ALL REMOVED DAMAGED/DETERIORATED WOOD BLOCKING AND DECKING.
 - REFER TO SECTION 07 60 00 SHEET METAL FLASHING AND TRIM.
 - EXTEND ALL SANITARY PIPES TO ALLOW FOR MINIMUM FLASHING HEIGHT OF 8 INCHES ABOVE NEW FINISHED ROOF LEVEL.
 - FLASHING HEIGHTS SHALL BE MINIMUM 6 INCHES ABOVE NEW FINISHED ROOF SURFACE.
 - INSTALL NEW WOOD BLOCKING AT EAVES AS REQUIRED TO FINISH FLUSH WITH THE TOP OF THE COVER BOARD.
 - REPLACE THROUGH WALL FLASHINGS ON NORTH ELEVATION.

LEGEND

- GUTTER EXPANSION JOINT
- PARAPET WALL
- GUTTER AND DOWNSPOUT
- SANITARY VENT PIPE
- TAPERED INSULATION SLOPE
- STRUCTURAL SLOPE
- DETAIL NO.

CODE SUMMARY

NORTH CAROLINA BUILDING CODE (2018 EDITION) AND ASCE
 BASIC WIND SPEED = 120 MPH
 CATEGORY = II
 EXPOSURE CATEGORY = B
 INTERNAL PRESSURE COEF = +0.10

THE NEW ROOF SYSTEM SHALL BE DESIGNED AND CONSTRUCTED TO MEET THE FOLLOWING WIND UPLIFT PRESSURES:
 1. CORNER ZONE = +26.4 PSF
 2. PERIMETER ZONE = +20.5 PSF
 3. FIELD ZONE = +16.9 PSF
 4. WALL CORNER = +20.9, -28.1 PSF
 5. WALL CORNER = +20.9, -28.1 PSF

WIND ZONE

- ZONE 1 FIELD ZONE
- ZONE 2 PERIMETER ZONE (PERIMETER IS 4 FEET WIDE)
- ZONE 3 CORNER ZONE (CORNERS ARE 4 x 4 FEET)



MOORE COUNTY SCHOOLS
VASS-LAKEVIEW ELEMENTARY GYM RENOVATIONS
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ROOF PLAN & WIND ZONE PLAN

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
DS	DOWNSPOUT

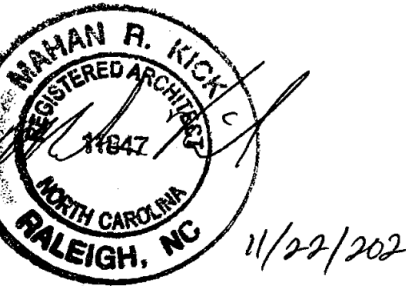
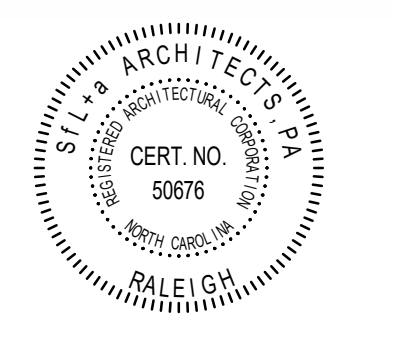
GENERAL NOTES:

- SEE PLUMBING AND MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS.

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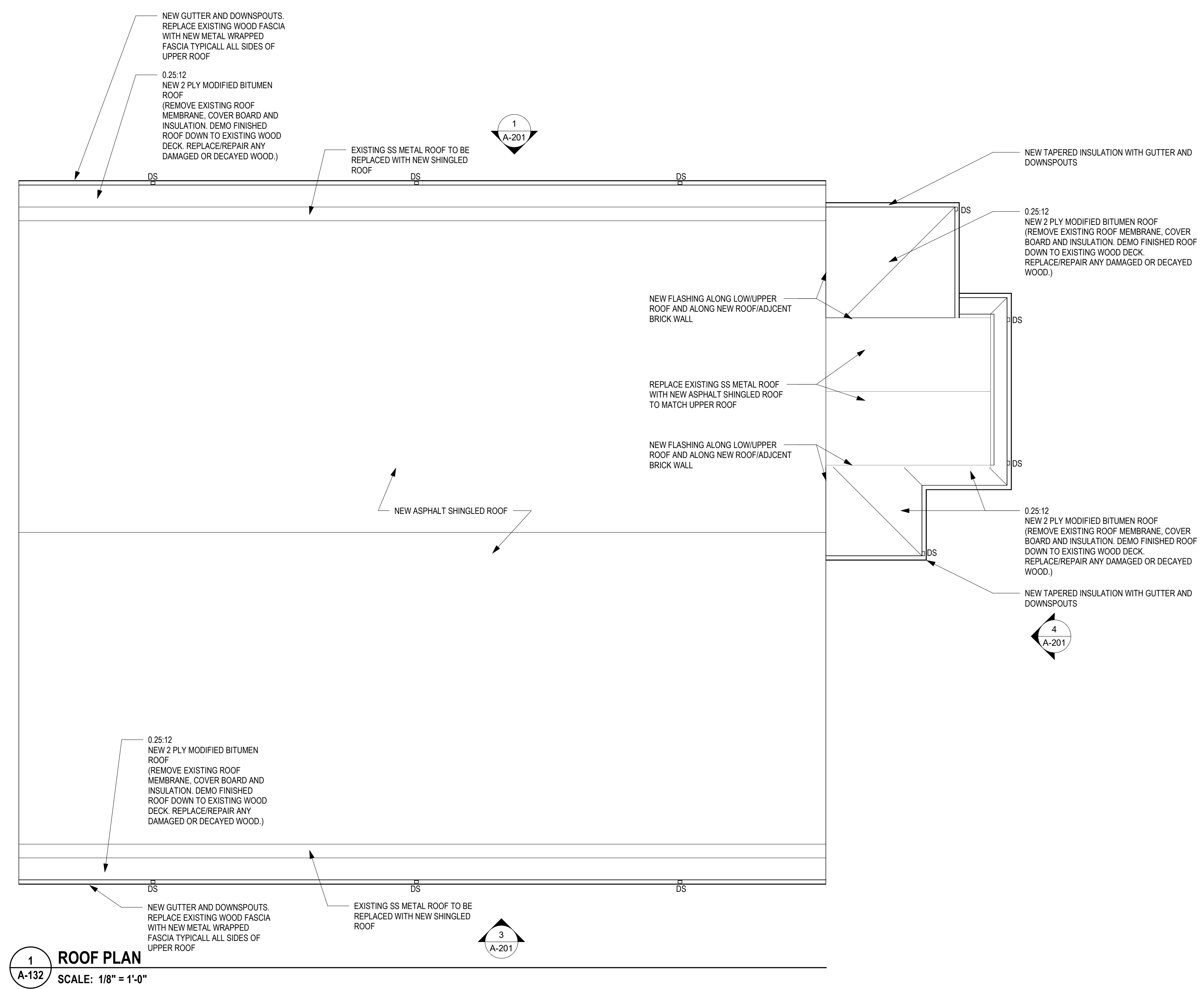
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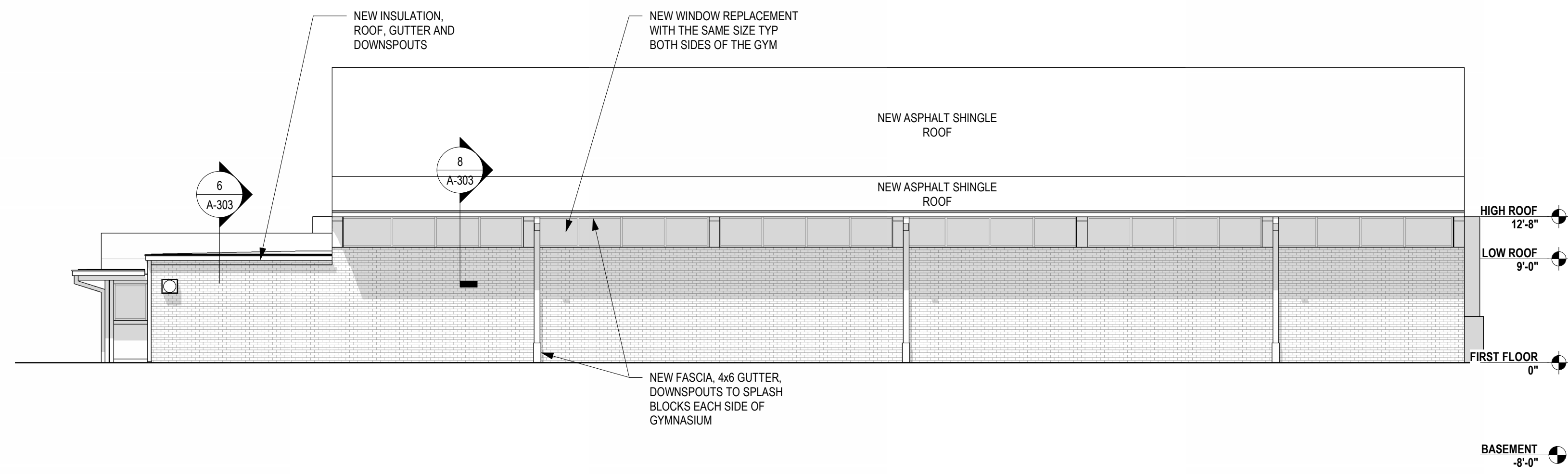
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ROOF PLANS -
DEMOLITION AND
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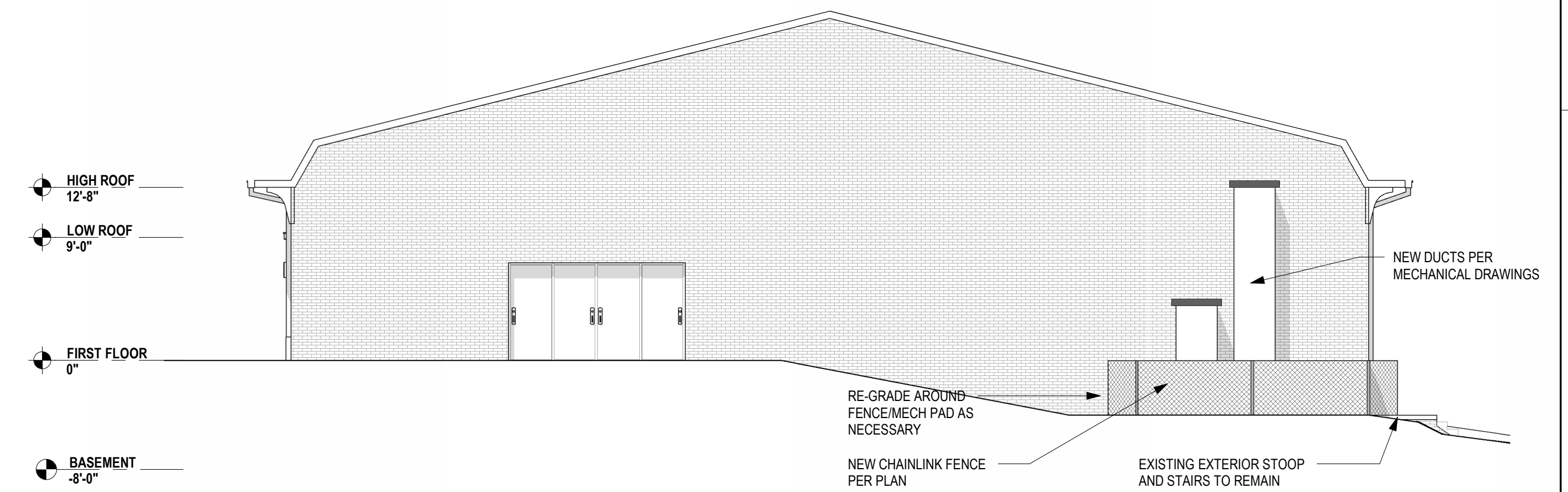
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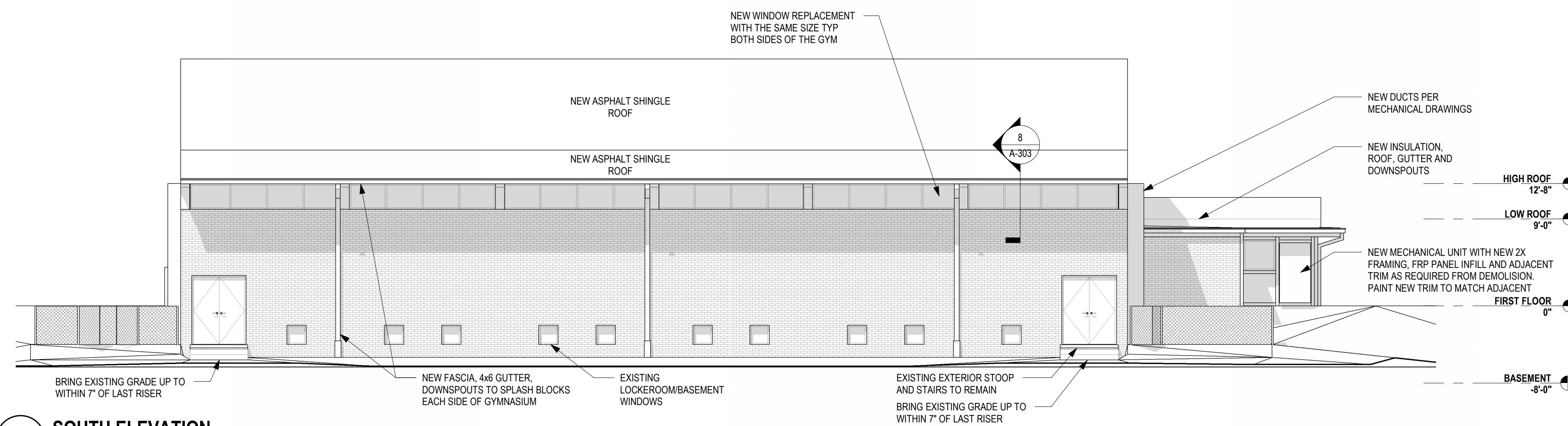
1
A-132
ROOF PLAN
SCALE: 1/8" = 1'-0"



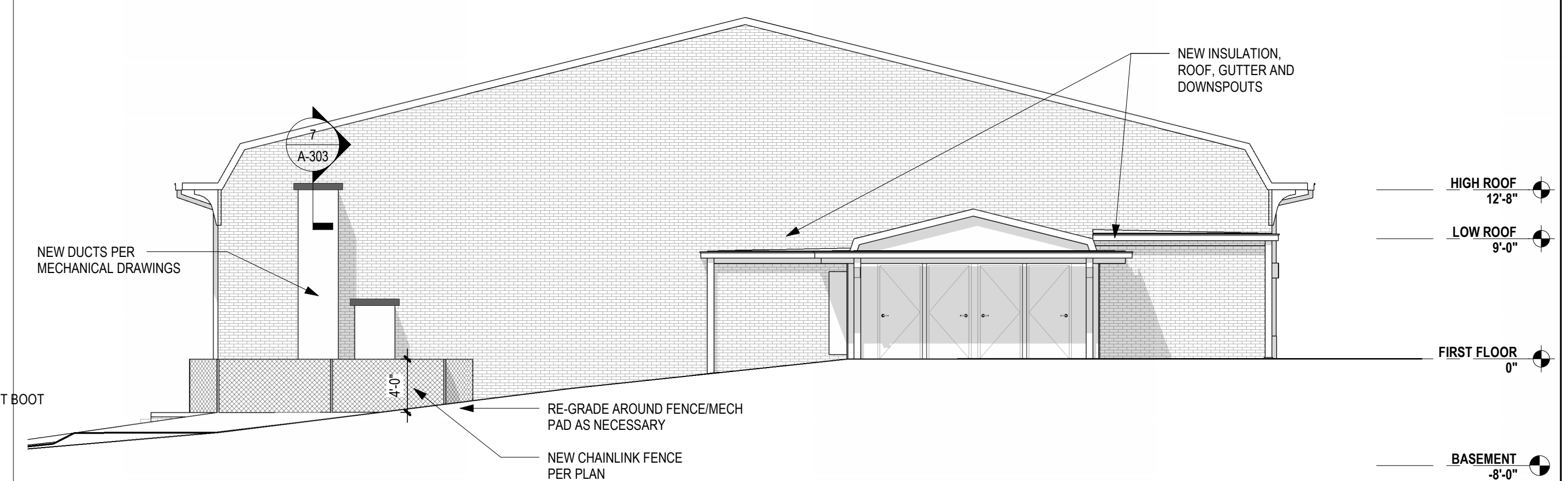
1 NORTH ELEVATION
A-201 SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
A-201 SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
A-201 SCALE: 1/8" = 1'-0"



4 EAST ELEVATION
A-201 SCALE: 1/8" = 1'-0"

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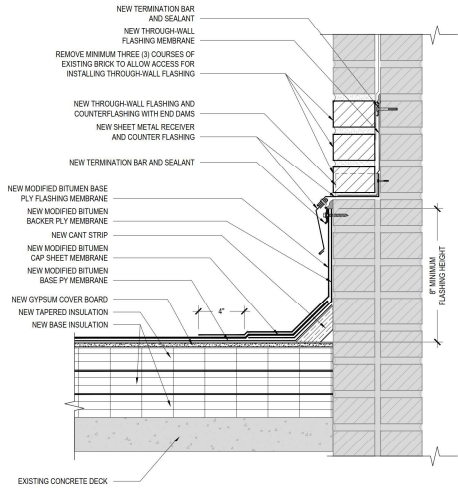
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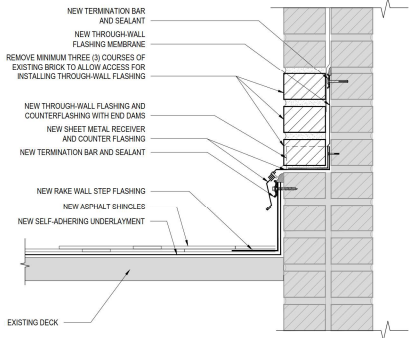
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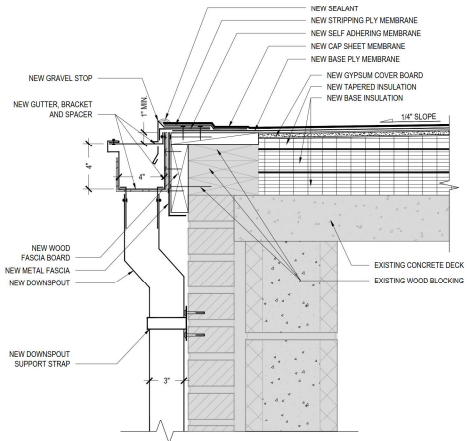
EXTERIOR ELEVATIONS



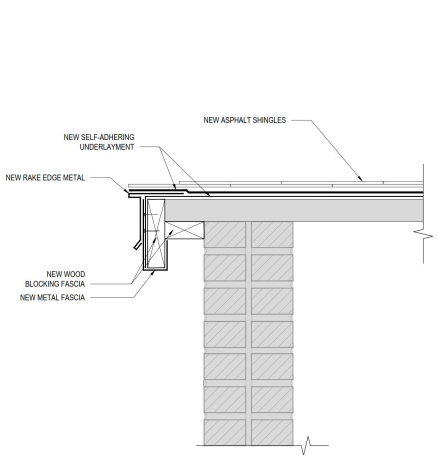
1 LOW-SLOPE/WALL FLASHING DETAIL
3/4" = 1'-0"



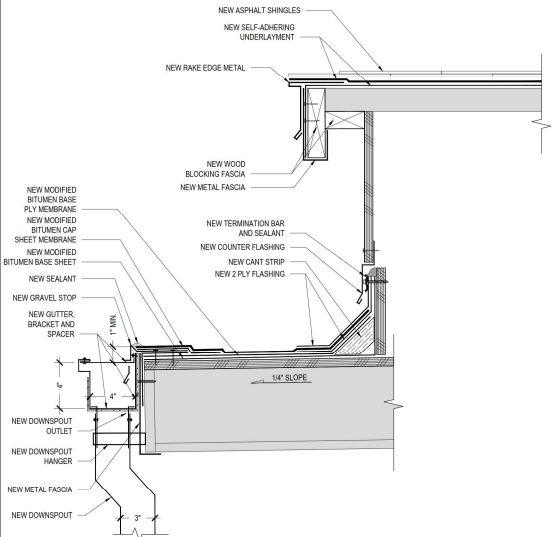
2 SHINGLE ROOF/WALL FLASHING DETAIL
3/4" = 1'-0"



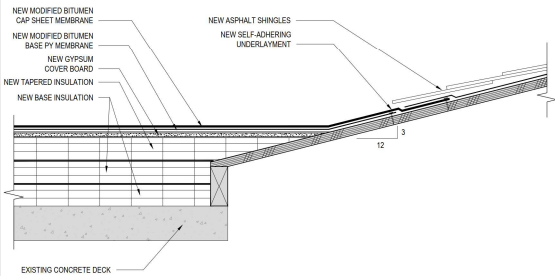
3 EAVE/GUTTER DETAIL
3/4" = 1'-0"



4 RAKE FLASHING DETAIL
3/4" = 1'-0"



5 RAKE EDGE/EAVE GUTTER DETAIL
3/4" = 1'-0"



6 LOW-SLOPE/STEEP SLOPE TRANSITION
3/4" = 1'-0"

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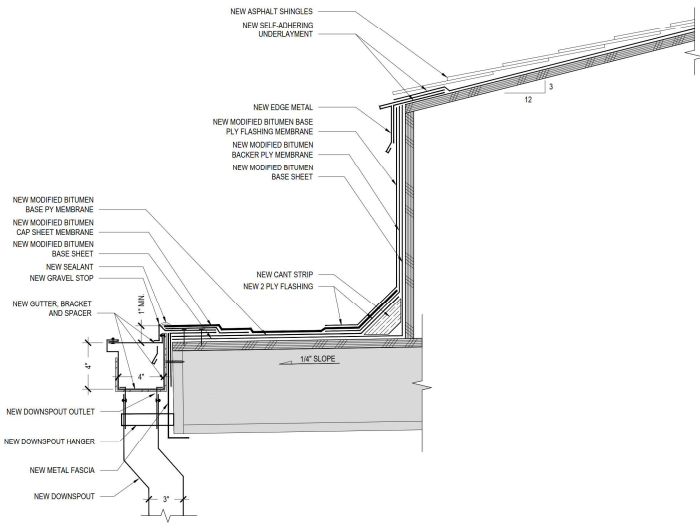
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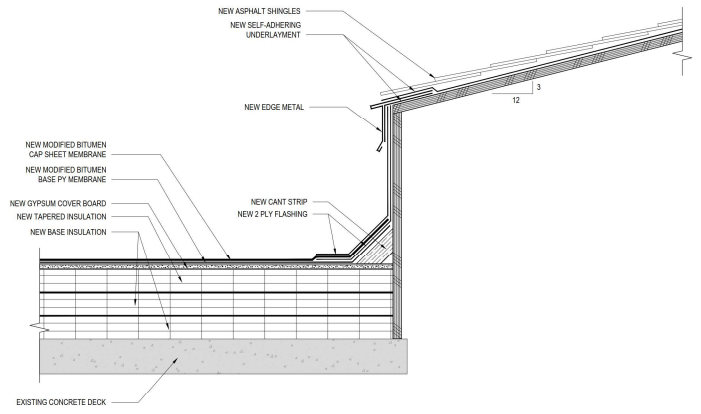
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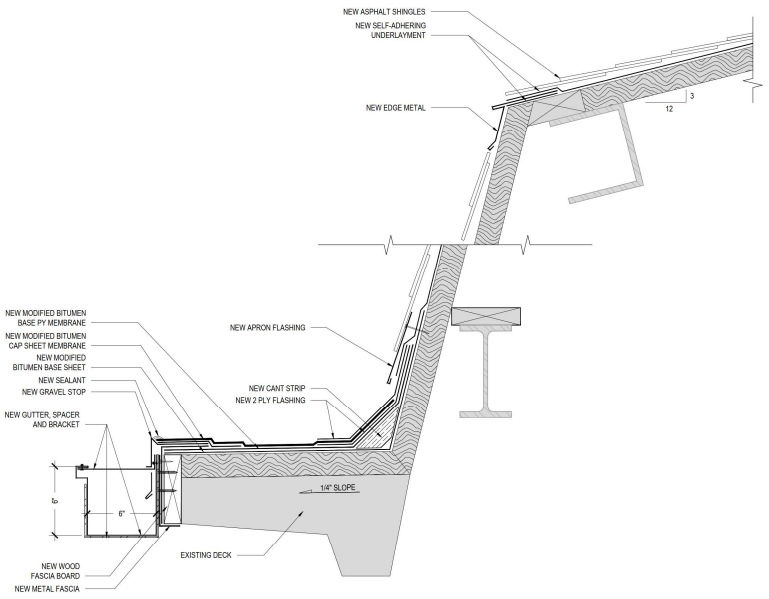
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1 LOW-SLOPE/STEEP SLOPE TRANSITION
3/4" = 1'



2 LOW-SLOPE/STEEP SLOPE TRANSITION
3/4" = 1'



3 LOW-SLOPE/STEEP SLOPE TRANSITION
3/4" = 1'

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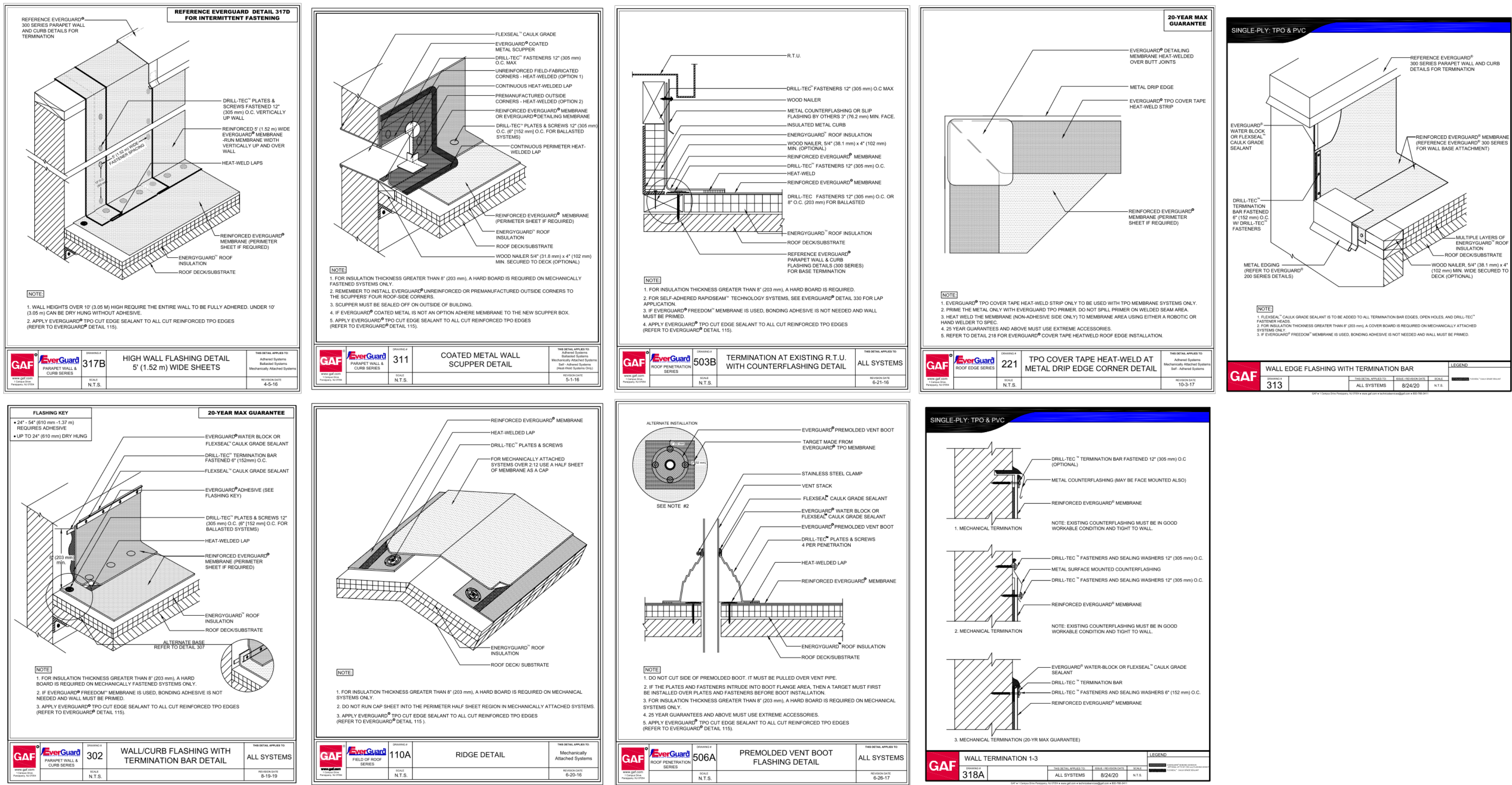
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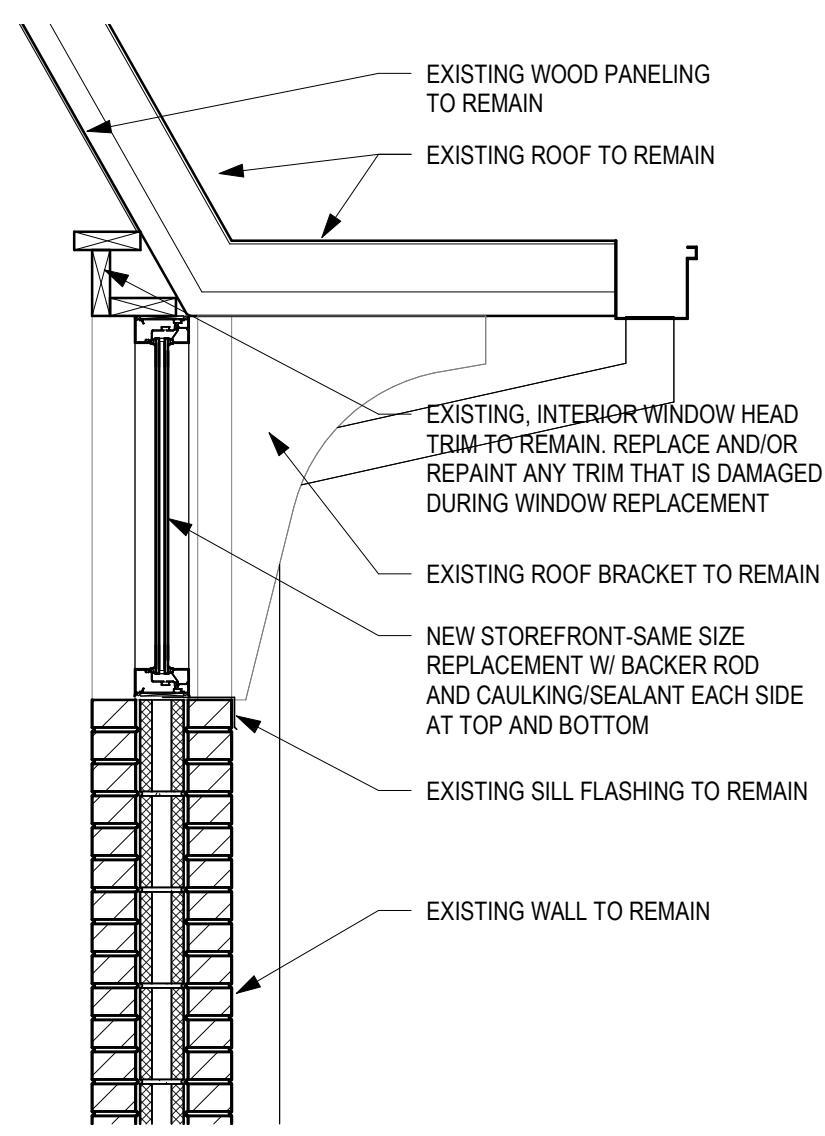
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DETAILS

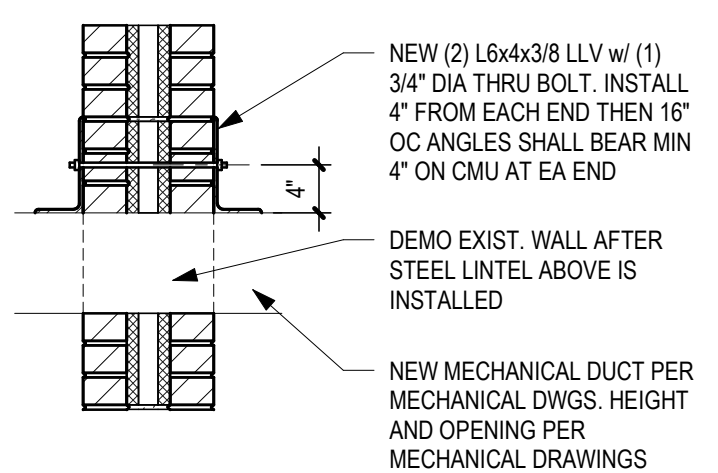
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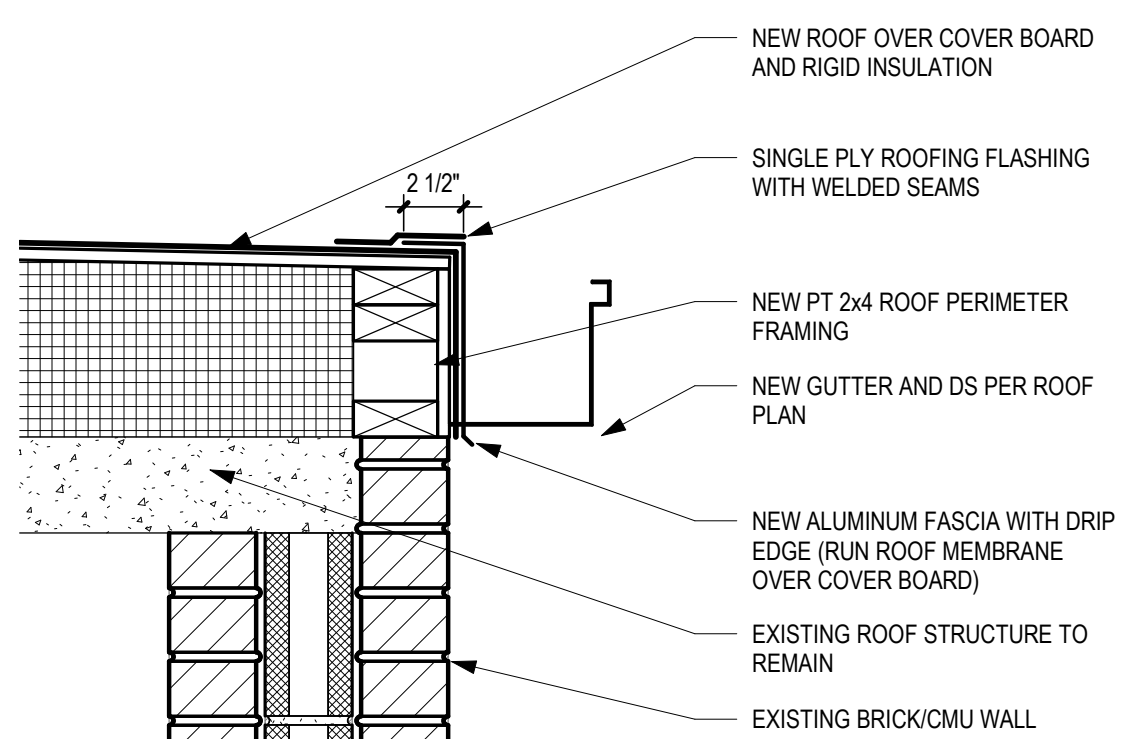
NOTE: NOT ALL DETAILS MAY BE USED
3 GAF ROOF DETAILS - BASIS OF DESIGN
SCALE: 6" = 1'-0"



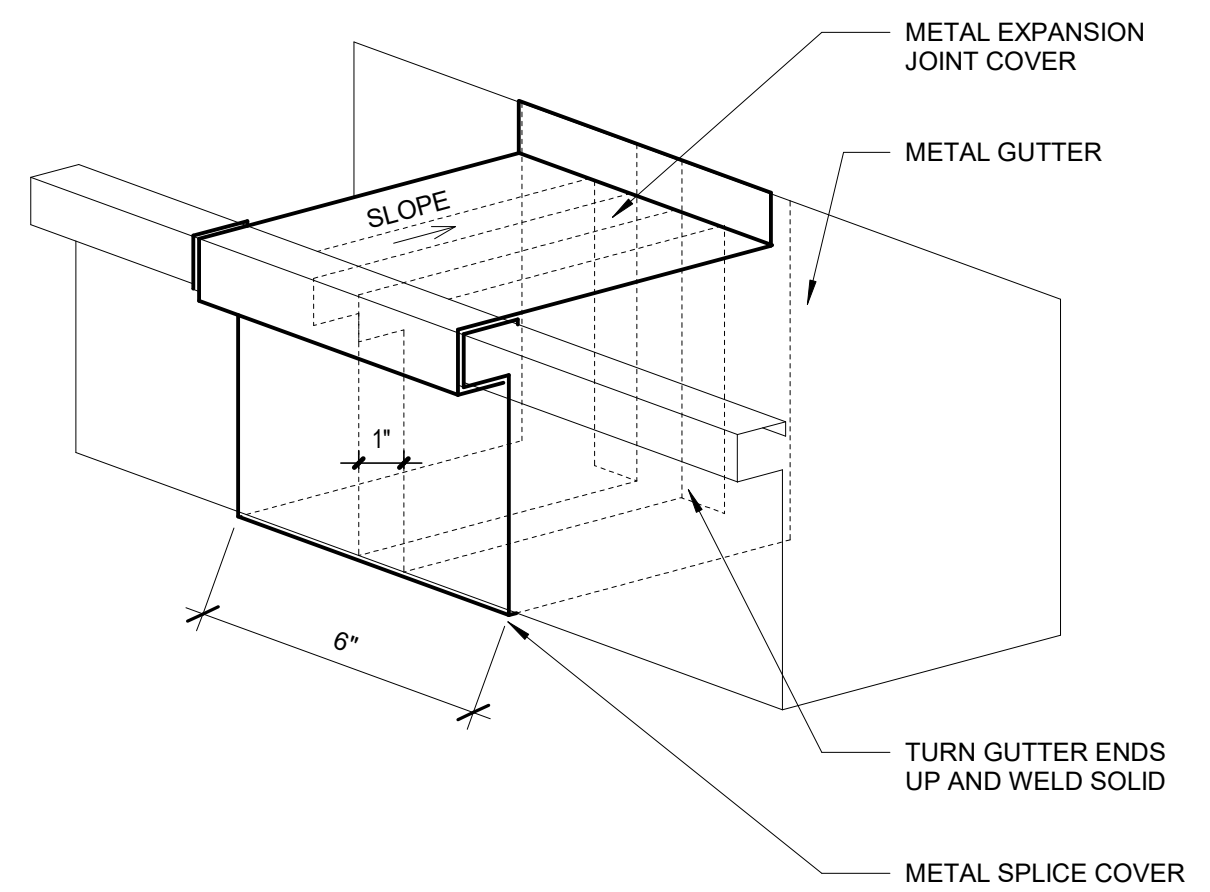
8 WINDOW SECTION
SCALE: 3/4" = 1'-0"



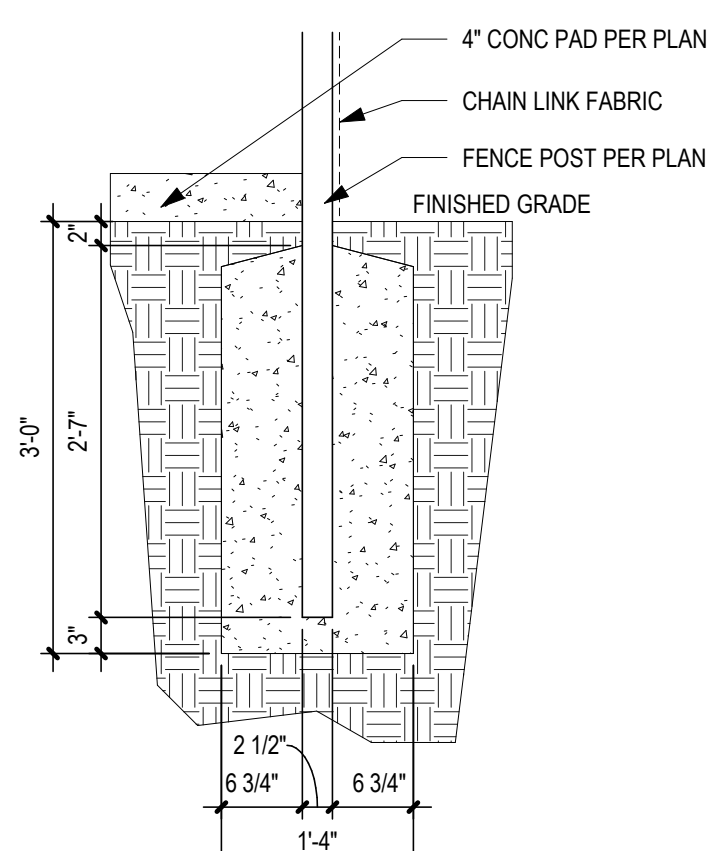
7 NEW MECH WALL OPENING
SCALE: 3/4" = 1'-0"



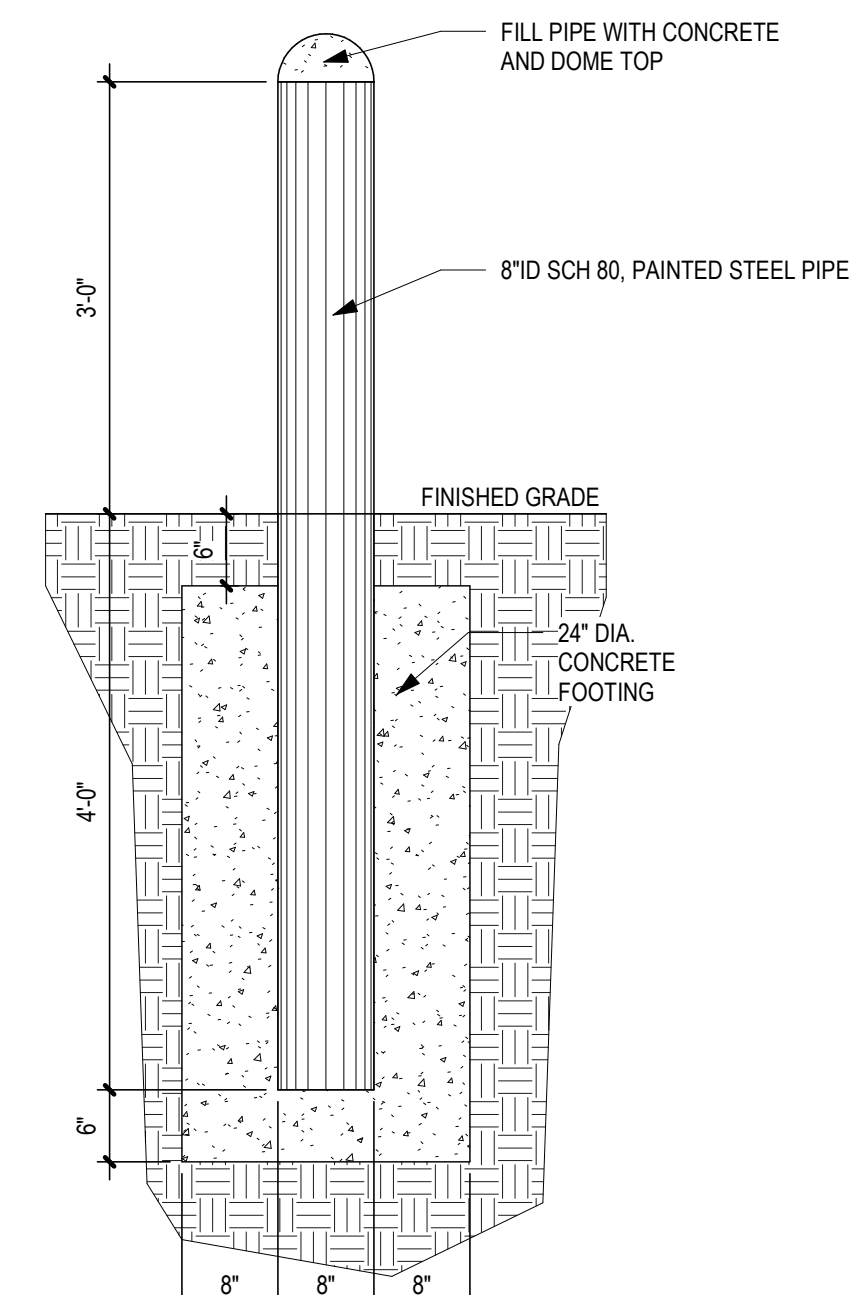
6 LOW ROOF FASCIA SECTION
SCALE: 1 1/2" = 1'-0"



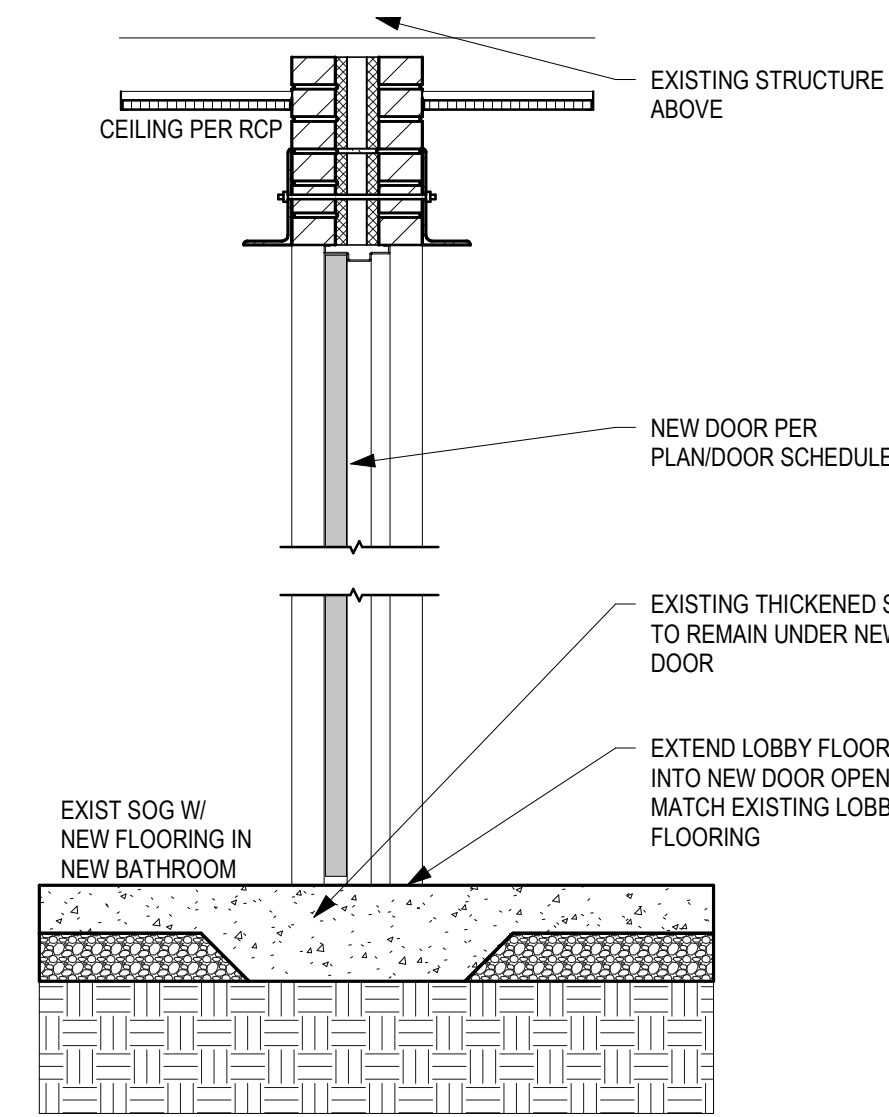
2 GUTTER EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"



5 SITE FENCE POST
SCALE: 3/4" = 1'-0"



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

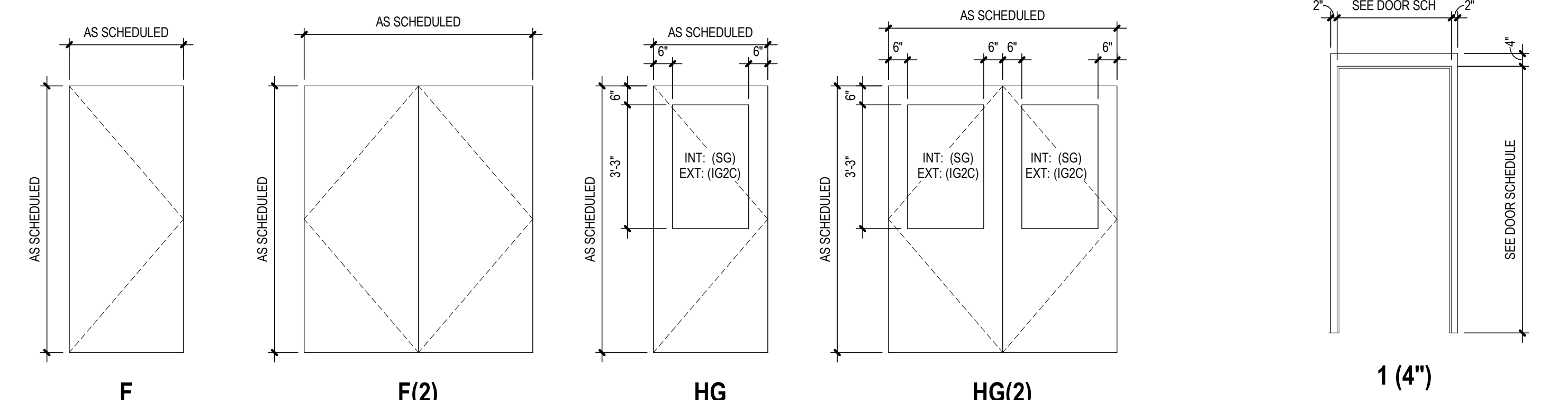


1 NEW DOOR OPENING @ EXIST. WALL
SCALE: 3/4" = 1'-0"

No.	Date	Description

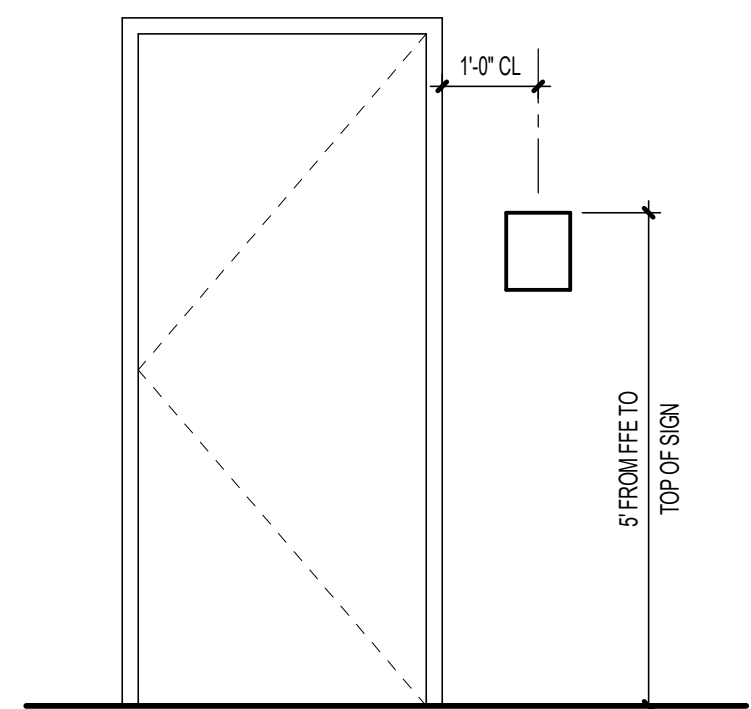
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NO.	DOOR				FRAME		HARDWARE	FIRE RATING	KEYED NOTES	
	WIDTH	HEIGHT	THK	MAT	TYPE	FRAME MAT				FRAME TYPE
115	3'-0"	7'-0"	1 3/4"	WD	F	HM	1	1.5 PR HINGES, PRIVACY SET, CORE, CLOSER, 1 EA STOP, 3 EA SILENCER	0	BRUSHED OR SATIN FINISH, SIGN TYPE D

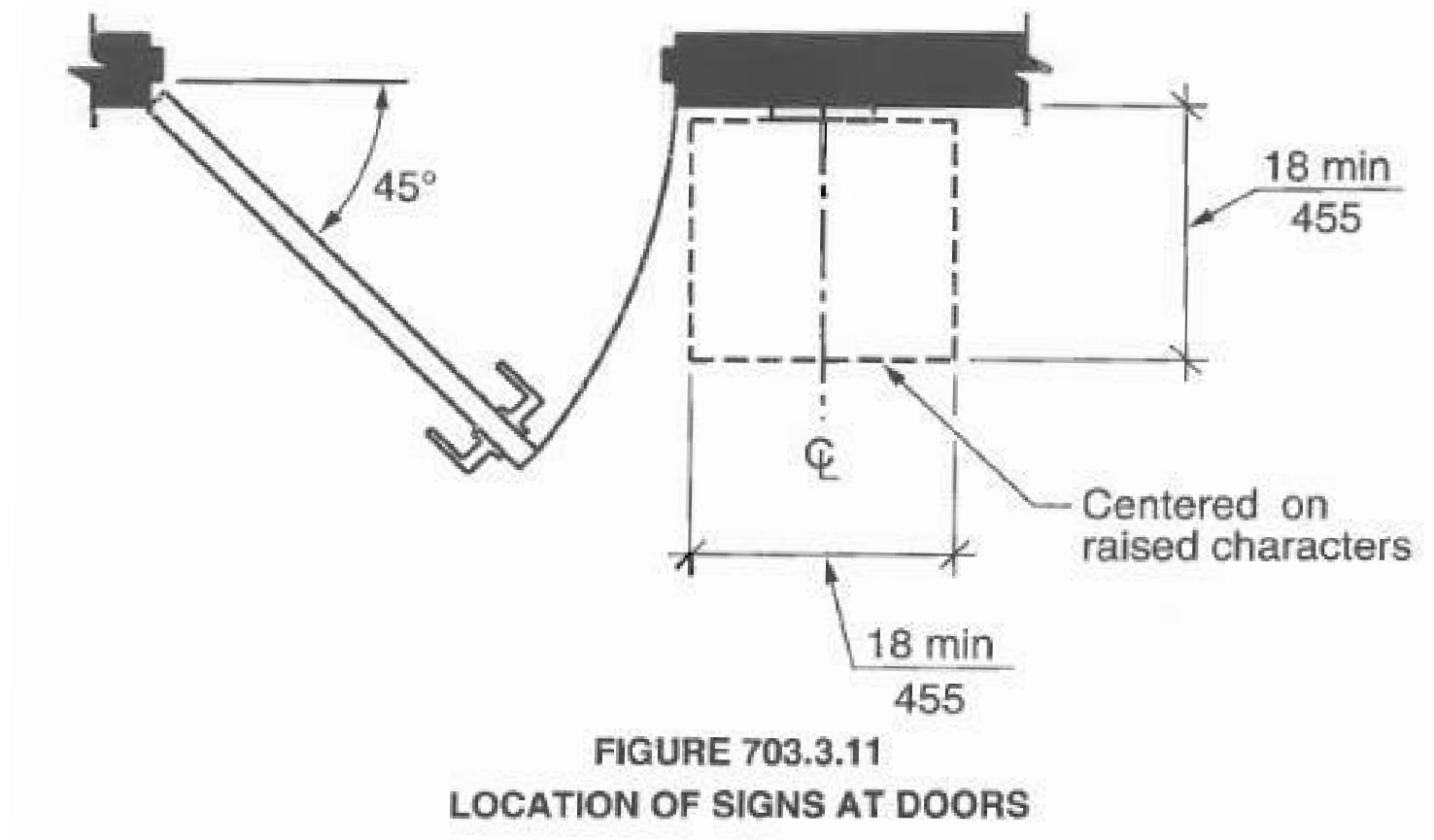


DOOR LEGEND
SCALE: 3/8" = 1'-0"

FRAME LEGEND
SCALE: 3/8" = 1'-0"



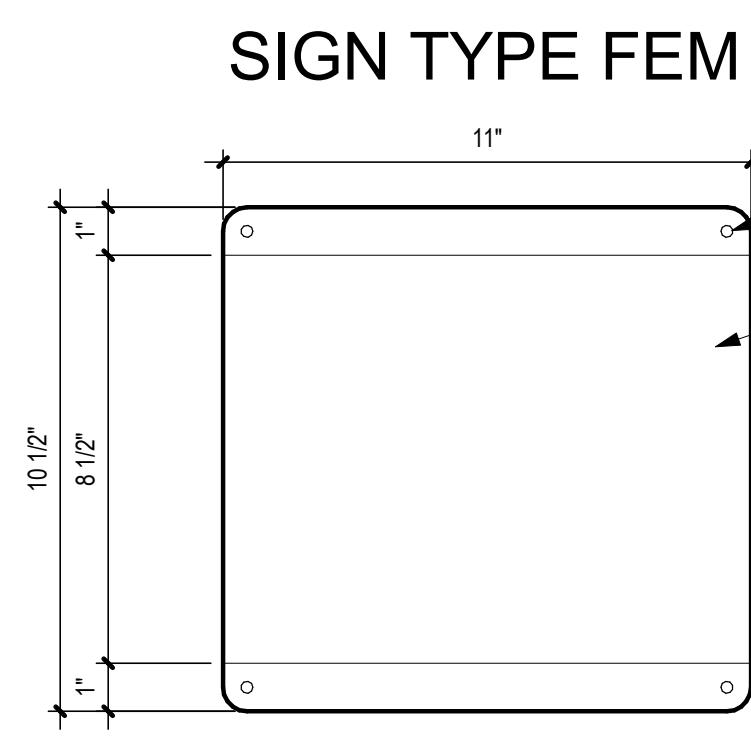
- SIGNAGE NOTES:**
- ROOM SIGNAGE TO BE LOCATED ON THE WALL ADJACENT TO THE STRIKE SIDE OF THE DOOR.
 - MOUNTING LOCATION AND HEIGHT SHOWN IS TYPICAL. VERIFY NON-TYPICAL SIGN LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
 - AT DOORS WITH SIGHTGLASS ON THE STRIKE SIDE OF JAMB, USE DOUBLE SIDED TAPE ONLY. PROVIDE A BLANK SOLID SIGN OF SAME COLOR AND SIZE ON OPPOSITE SIDE OF GLASS.
 - COORDINATE ROOM NAME, NUMBER AND DOOR INVENTORY NUMBER WITH USER.
 - PROVIDE SIGNAGE AT ALL INTERIOR DOOR LOCATIONS. ROOMS WITH MORE THAN ONE ACCESS POINT SHALL REQUIRE SIGNAGE AT EACH LOCATION.
 - TYPICAL FOR ALL DOOR INVENTORY NUMBERS - SHALL HAVE RAISED NUMBERS AND BE BLACK IN COLOR.
 - FIRE EVACUATION MAP HOLDERS TO BE PROVIDED IN ALL HABITABLE ROOMS ADJACENT TO THE EGRESS DOOR.



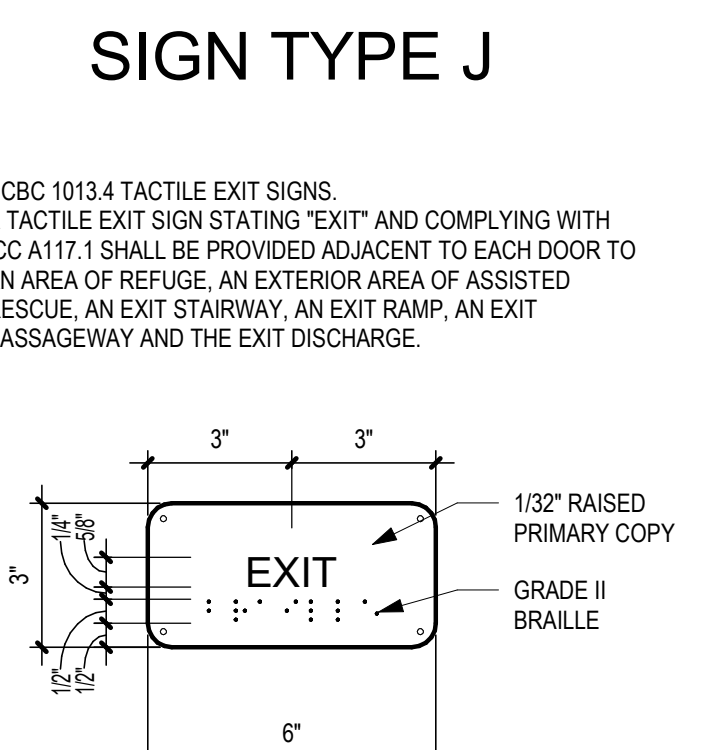
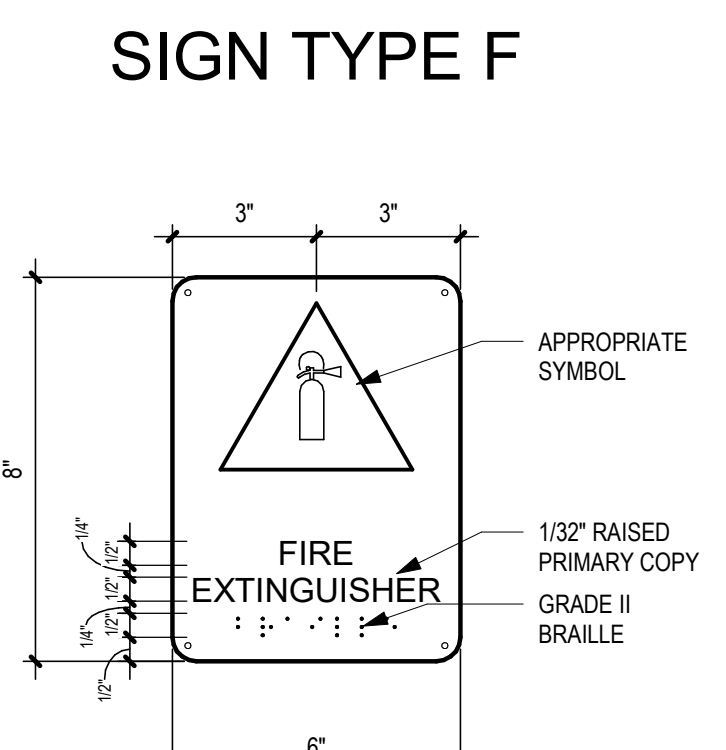
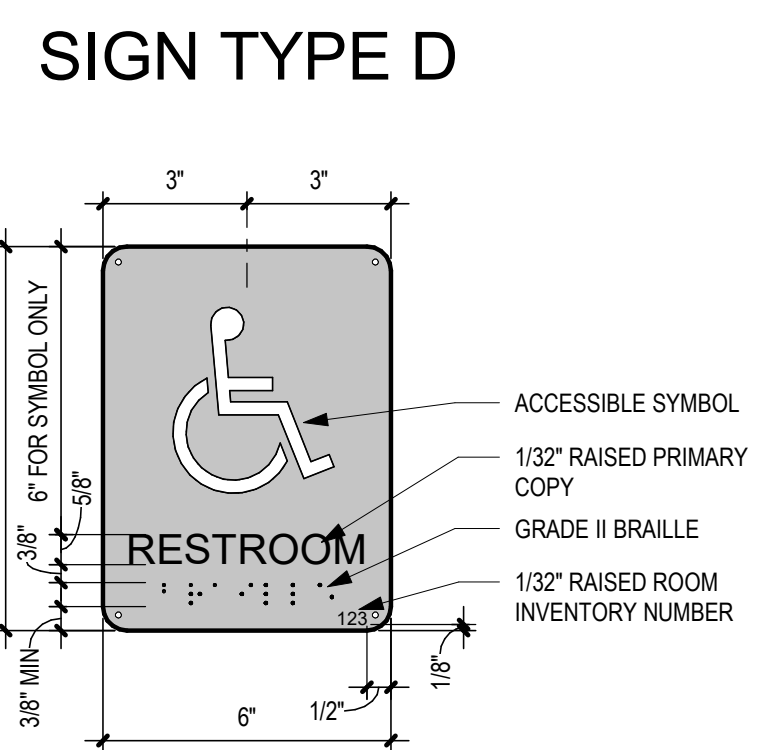
3 ADA SIGN AT DOOR
SCALE: 3" = 1'-0"

- FINISHED WALL
- ATTACH SIGN WITH (4) #8 CIS SCREWS TYP
- 1/32" RAISED GRAPHICS AND CHARACTERS
- PLACE THIN LAYER OF SILICONE ADHESIVE BEHIND ALL WALL MOUNTED SIGNS
- 0.080 ACRYLIC BASE
- 0.0625" ACRYLIC FACE WITH PHOTOPOLYMER
- GRADE II BRAILLE BELOW COPY/GRAPHICS ETC
- ALL EDGES AND CORNERS TO BE BEVELED

4 SIGNAGE DETAIL AT WALL
SCALE: 6" = 1'-0"



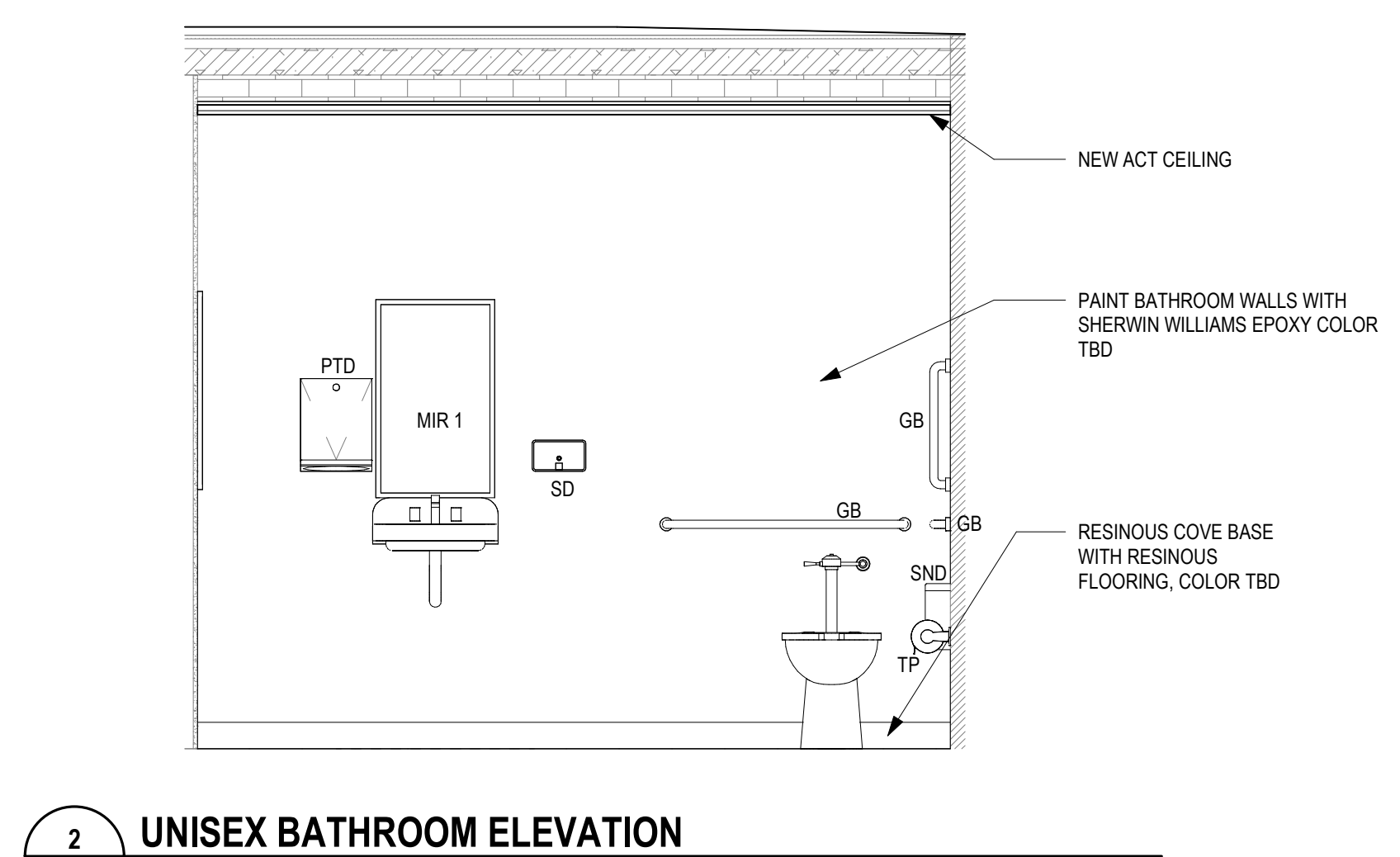
6 SIGNAGE ELEVATIONS
SCALE: 3" = 1'-0"



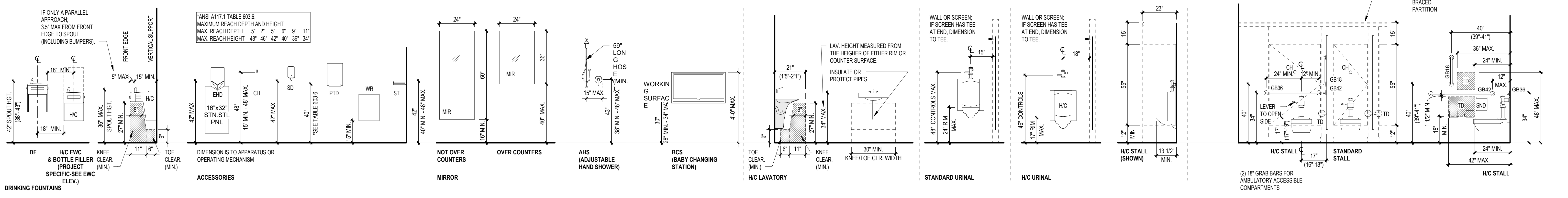
NCBC 1013.4 TACTILE EXIT SIGNS. A TACTILE EXIT SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, AN EXTERIOR AREA OF ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

NAME	DESCRIPTION
CH	COAT HOOK
EHD	ELECTRIC HAND DRYER
FD	FLOOR DRAIN - SEE PLUMBING
GB	1 1/2" DIA SS GRAB BAR (GB NOTED IN PLAN INDICATES LENGTH IN INCHES)
HIC	INDICATES TO MOUNT FIXTURE AT HANDICAPPED ACCESSIBLE HEIGHT
MR	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS - 60"
MR2	SS FRAMED WALL MIRROR ATTACHED WITH CONCEALED FASTENERS - 60"
PTD	PAPER TOWEL DISPENSER
SD	WALL MOUNTED GRAVITY FED SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL (WOMENS TOILET ROOMS ONLY)
TD	DBL. ROLL TOILET TISSUE DISPENSER, 1 PER STALL IN GROUP TOILETS

GENERAL NOTES:
 1. IF URINAL SCREEN = 1' > 24" DEEP, PROVIDE 3'-0" CLEAR FLOOR SPACE.
 2. ACCESSIBLE URINAL TO MAINTAIN 30" CLEAR FLOOR WIDTH. CONFIRM WIDTH IS CLEAR BETWEEN SCREEN FLOOR SUPPORTS.
 3. 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, THE GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA. (ANSI 117.1-604.5.2c)
 4. LOCATE FLUSH CONTROL ON OPEN SIDE OF WATER CLOSET.
 5. 30"x48" CLEAR FLOOR SPACE WITHIN ROOM per A117.1-2009 603.2.2c.
 6. 60" DIAMETER CLEAR FLOOR SPACE per A117.1-2009 603.2.1.
 7. PTD MUST PROTRUDE 4" OR LESS INTO LAVATORY CLEAR SPACE.
 8. 30"x48" FORWARD APPROACH CLEAR SPACE CENTERED ON ELEMENT.
 9. 80"x50" CLEAR FLOOR SPACE MEASURED PERPENDICULAR TO ADJACENT SIDE AND REAR WALL OF THE ACCESSIBLE TOILET. (ANSI 117.1-2009 604.3.1-2).
 10. DIMENSIONS TO GRAB BARS IS TO TOP OF GRAB SURFACE.
 11. DIMENSIONS TO ACCESSORIES IS TO THE OPERABLE PORTION OF THE DEVICE.



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



1 ACCESSIBLE + STANDARD FIXTURE MOUNTING HEIGHTS (ADULTS)
SCALE: 3/8" = 1'-0"

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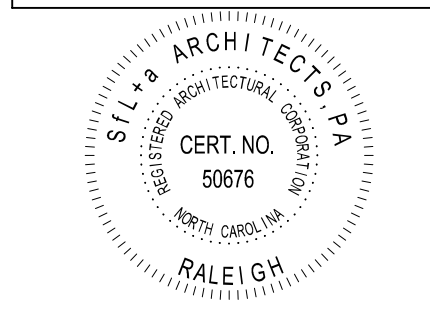
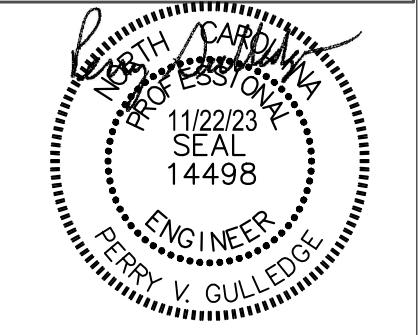
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DOOR SCHEDULE & TOILET ACCESSORY LEGEND

A-401



PLUMBING LEGEND	
	COLD WATER PIPE BELOW GRADE
	COLD WATER PIPE (CW)
	HOT WATER PIPE (HW)
	HOT WATER RETURN PIPE (HWR)
	WASTE PIPE ABOVE FLOOR OR GROUND
	WASTE PIPE BELOW FLOOR OR GROUND
	VENT PIPE
	VENT THROUGH ROOF (VTR)
	FLOOR DRAIN (FD)
	GROUND CLEANOUT (GCO)
	PIPE DROP OR RISER
	RISER WITH SHUTOFF RISER
	SHUT-OFF VALVE
	HOSE BIBB (HB)

- ### PLUMBING CONSTRUCTION NOTES
- ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE CURRENT STATE BUILDING CODE AND LOCAL CODES AND ORDINANCES.
 - FIELD VERIFY EXISTING WASTE INVERTS ARE SUITABLE FOR CONNECTION OF NEW WASTE PIPING BEFORE BEGINNING INSTALLATION OF NEW WORK. CONTACT ENGINEER IF INVERT IS INADEQUATE.
 - ROD EXISTING SEWER LATERAL PIPING TO MANHOLE TO INSURE PIPE IS CLEAR OF CLOGS AND OBSTRUCTIONS.
 - PROVIDE ALL PENETRATIONS REQUIRED FOR NEW PIPING IN EXISTING CONSTRUCTION.
 - WATER PIPING ABOVE GRADE SHALL BE TYPE L HARD COPPER. JOINTS SHALL BE SOLDERED OR MECHANICAL PRESS FIT. SOLDERED JOINTS SHALL BE MADE WITH LEAD FREE SOLDER UP TO 1" PIPE SIZE AND WITH SILVER BRONZE SOLDER FOR PIPE SIZES 1-1/4" AND LARGER.
 - ABOVE GRADE COLD WATER AND INDIVIDUAL HOT WATER RUNOUT PIPING SHALL BE INSULATED WITH 1/2" THICKNESS PREFORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. HOT WATER MAINS AND RECIRCULATION PIPING SHALL BE INSULATED WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
 - PROVIDE FOAMGLASS INSULATION INSERTS AND GALVANIZED STEEL PIPE SHIELDS AT PIPE SUPPORTS. SECURE PIPE SHIELDS TO PIPE WITH ZIP TIE.
 - LABEL INSULATED PIPING WITH PLASTIC LABELS ENCODING THE ENTIRE CIRCUMFERENCE OF THE INSULATION WITH LETTERING TO IDENTIFY SERVICE AND ARROWS INDICATING FLOW DIRECTION. SECURE TO PIPE INSULATION WITH BLACK ZIP-TIE. SPACE LABELS 12" ON CENTER AND WITHIN 6" OF PENETRATION OF WALLS, CEILINGS, FLOORS, ETC.
 - PROVIDE ONE-PIECE PIPE SLEEVES FOR PIPES PASSING THROUGH FLOORS OR WALLS. SLEEVE SHALL BE SECURED IN WALL CONSTRUCTION WITH STRAPS OR BRACKETS FOR FRAME WALL OR FLOOR CONSTRUCTION. SECURE SLEEVE WITH MORTAR OR GROUT FOR FOUNDATION WALL, MASONRY WALL OR CONCRETE FLOOR SLAB CONSTRUCTION. SLEEVE SHALL EXTEND MINIMUM OF 12" BEYOND FOUNDATION WALLS, 2" BEYOND ABOVE GRADE WALLS, AND 6" ABOVE FLOORS. SLEEVES SHALL BE SIZED TO PROVIDE CLEARANCE FOR PIPE INCLUDING INSULATION WHERE APPLICABLE. SEAL SPACE BETWEEN SLEEVE AND PIPE OR INSULATION WITH ELASTOMERIC SEALANT ABOVE GRADE OR WITH LINK SEAL COMPRESSION SEALS FOR FOUNDATION WALLS.
 - SANITARY AND VENT PIPING SHALL BE SOLID WALL SCHEDULE 40 ASTM D2065 PVC PIPING WITH SOLVENT WELDED DWV PATTERN PVC FITTINGS PROVIDED THE PIPING IS NOT EXPOSED IN ANY RETURN AIR PLENUMS AND THAT LOCAL AUTHORITIES APPROVE. USE CAST IRON WHERE EXPOSED IN PLENUMS OR COVER PVC PIPING WITH METHOD APPROVED BY LOCAL AHJ FOR SEPARATING PVC FROM PLENUM AIR.
 - SUPPORT ABOVE GRADE PIPING FROM BUILDING STRUCTURE USING ALL-THREAD ROD AND MSP STANDARD PIPING SUPPORTS OR TRAPEZE TYPE CROSS SUPPORTS. SUPPORT PIPING WITHIN 2" (EACH DIRECTION) OF ELBOWS AND SPACED NO FURTHER THAN 8' APART. DO NOT USE FABRIC SUPPORTS, PLASTIC OR STEEL STRAPPING OR STEEL WIRE TO SUPPORT PIPING.
 - BELOW GRADE PIPING SHALL BE LAID IN TRENCH ON SAND OR SOIL FREE OF ORGANIC MATERIAL, ROCKS WITH SHARP EDGES AND CONSTRUCTION DEBRIS. BACKFILL WITH SOIL AFTER PIPE IS COVERED IN 8" LIFTS AND COMPACT TO 95% PROCTOR MINIMUM.
 - WARRANTY ALL WORK FOR A MINIMUM OF 1 YEAR FROM DATE OF ACCEPTANCE BY OWNER.

PLUMBING FIXTURE SCHEDULE - VASS-LAKEVIEW												
MARK	DESCRIPTION	FIXTURE		TRIM 1		TRIM 2		REMARKS	CONNECTION SIZES			
		MAKE (OR EQUAL)	MODEL #	MAKE (OR EQUAL)	MODEL #	MAKE (OR EQUAL)	MODEL #		WASTE	VENT	COLD WATER	HOT WATER
P-1A	WATER CLOSET FLOOR MOUNTED FLUSH VALVE SENSOR OPERATED BATTERY POWER	EQUAL TO AMERICAN STANDARD	"MADERA" 3641.001	AMERICAN STANDARD	5901.110TO HEAVY DUTY WHITE POLYPROPYLENE WITH EVERCLEAN SURFACE OPEN FRONT SEAT LESS COVER	SLOAN	ROYAL 113 SMO BATTERY SENSOR OPERATED FLUSH VALVE WITH PUSH BUTTON OVERRIDE GPF TO MATCH FIXTURE FLUSH RATE.	WHITE VITREOUS CHINA BOWL 16.5" HIGH RIM WITH EVERCLEAN SURFACE. BATTERY POWERED FLUSH SENSOR 1.8 GAL PER FLUSH. 1.000 M@P SCORE. CHROME PLATED BRASS SUPPLY TUBE COVER AND SUPPLY CHECK/STOP VALVE. PLUS OPEN FRONT WHITE PLASTIC SEAT W/CHECK HINGES.	3"	2"	1"	-
P-2A	LAVATORY WALL MOUNTED CAST IRON ADA ACCESSIBLE	AMERICAN STANDARD	REGALYN 4869004 20x18	EQUAL TO SLOAN	EBF-650 BATT. SENSOR OPERATED FAUCET 0.5 GPM W/ GRID STRAINER			WHITE CAST IRON WALL MOUNTED SINK WITH FAUCET COMPATIBLE HOLE SPACING. PROVIDE CHROME PLATED BRASS SUPPLIES, STOPS AND P-TRAP. PROVIDE CHROME PLATED BRASS TAILPIECE OUTLET WITH GRID STRAINER. SUPPLY+DRAIN PIPE INSULATION KIT. INSTALL PER ADA.	1-1/2"	1-1/2"	1/2"	-
P-5	B.LEVEL HC ACCESSIBLE ELECTRIC WATER COOLER DRINKING FOUNTAIN WITH BOTTLE FILLER	ELKAY	EZOOSTL8C+ LZWSRK	EQUAL TO ELKAY	LKAPREZL EWF172			WALL MOUNTED B.LEVEL ELECTRIC WATER COOLER WITH HANDS-FREE SENSORS AND WATER FILTER. 8 GPH. 120V. PROVIDE CANE APRON OPTION UNDER HIGH BOWL. PROVIDE SUPPLIES, STOPS, CAST BRASS P-TRAP. INSTALL PER ADA.	1-1/2"	1-1/2"	1/2"	-

NOTES

- "A" DESIGNATES FIXTURE TO BE INSTALLED AT HANDICAPPED ACCESSIBLE ELEVATION.
- ROUGH-IN SIZES TO FIXTURES ARE TO BE AS SCHEDULED UNLESS LARGER SIZE SHOWN ON PLAN.
- OPERATING HANDLE FOR ACCESSIBLE WATER CLOSETS SHALL BE ON THE ACCESSIBLE (OPEN APPROACH) SIDE OF THE FIXTURE.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.

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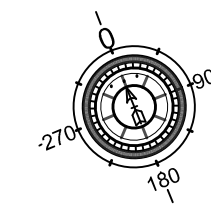
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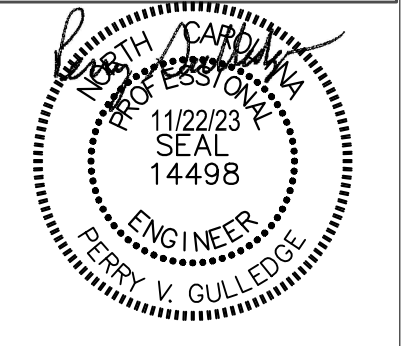
PLUMBING LEGEND,
 NOTES, SCHEDULES

List of Drawings Vass-Lakeview	
SHEET	DESCRIPTION
P0.1	LEGEND, NOTES SCHEDULES
P1.0	DEMOLITION & RENOVATION PLAN
P4.1	ENLARGED PLANS

P0.1



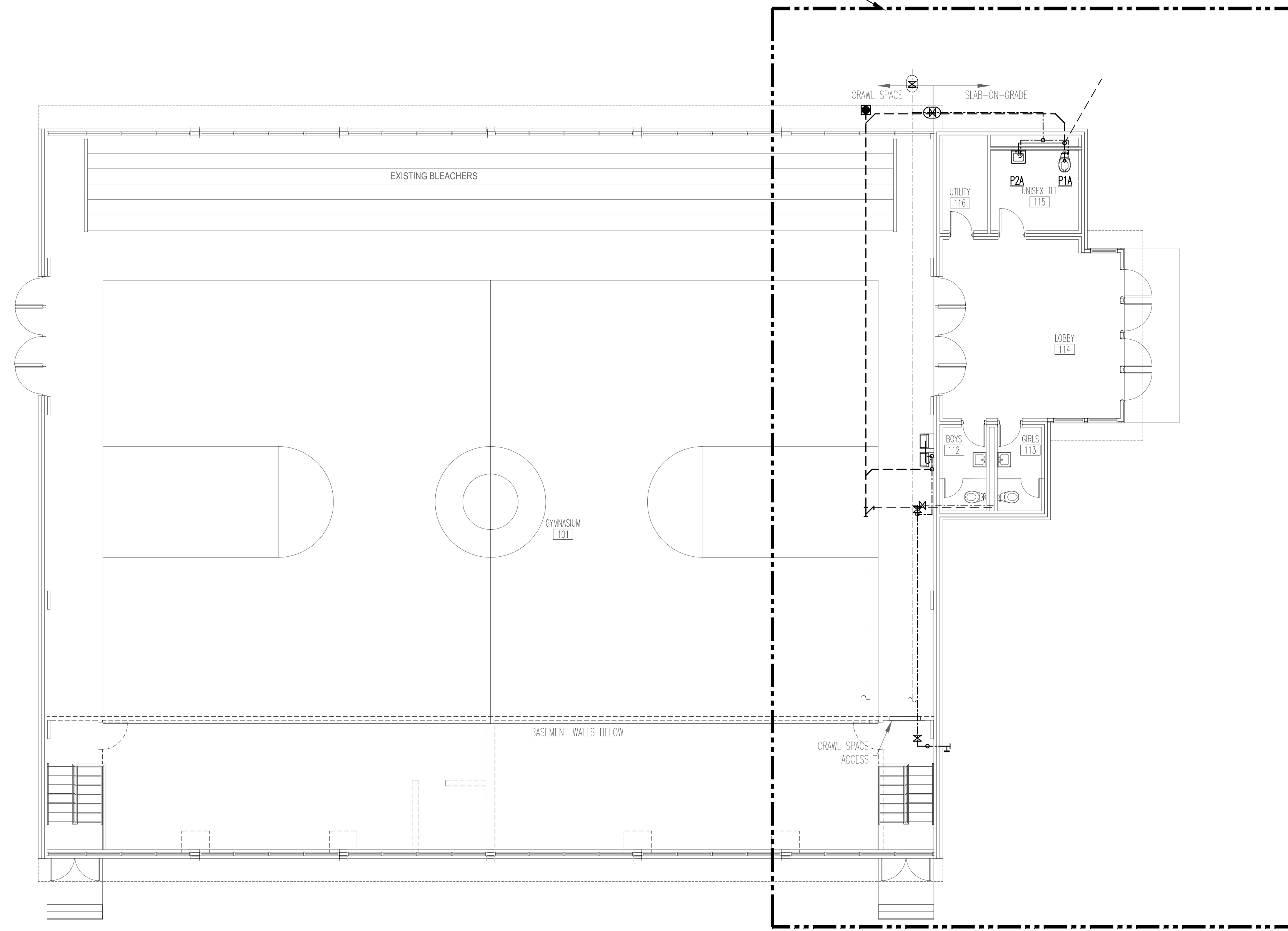
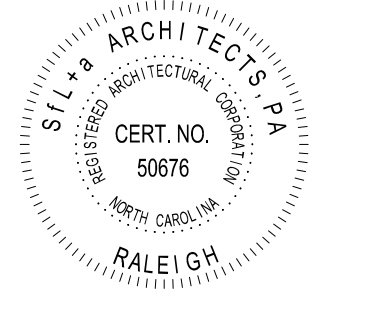
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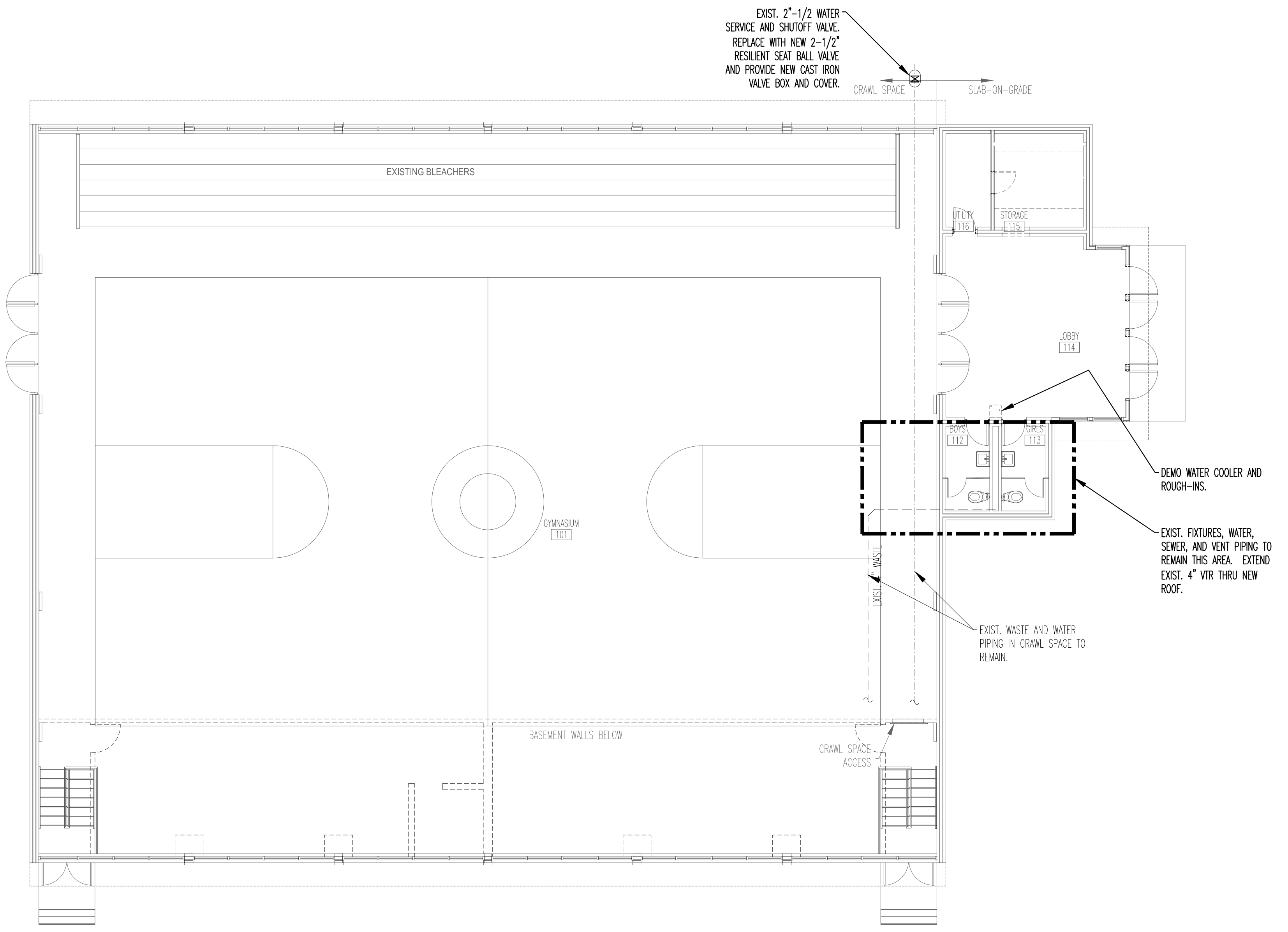
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- GENERAL PLUMBING NOTES:**
- SEE ENLARGED PLANS ON P4.1 FOR DETAILS IN WORK AREA.
 - CUT AND TRENCH FLOOR AS REQUIRED FOR NEW UNDERFLOOR WORK. BACKFILL TO 95% COMPACTION AND COORDINATE WITH G.C. TO PATCH VAPOR BARRIER, FLOOR AND FINISH.

SEE P4.1 FOR ENLARGED PLAN OF NEW WORK THIS AREA

2
 P1.0
PLUMBING RENOVATION PLAN
 SCALE: 1/8" = 1'-0"



- GENERAL PLUMBING DEMOLITION NOTES:**
- EXISTING WATER PIPING ABOVE AND BELOW FLOOR IS TO REMAIN IN SERVICE UNLESS NOTED OTHERWISE.
 - EXISTING WASTE AND VENT PIPING ABOVE AND BELOW GRADE IS TO REMAIN IN SERVICE UNLESS NOTED OTHERWISE.
 - ROD EXISTING WASTE LINES CLEAR FROM THE MOST REMOTE ACCESS ON A BRANCH TO THE MAIN AND ROD THE MAIN CLEAR TO THE FIRST MANHOLE.
 - EXISTING FIXTURES AND ASSOCIATED ROUGH-INS ARE TO REMAIN UNLESS INDICATED OTHERWISE.
 - PATCH HOLES LEFT WHEN PIPING IS REMOVED FROM WALLS, FLOORS, CEILING, ETC. PATCH MATERIAL SHALL BE CONSISTENT WITH EXISTING CONSTRUCTION AND SUITABLE FOR APPLICATION OF FINAL FINISH.

1
 P1.0
PLUMBING DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

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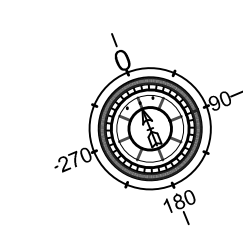
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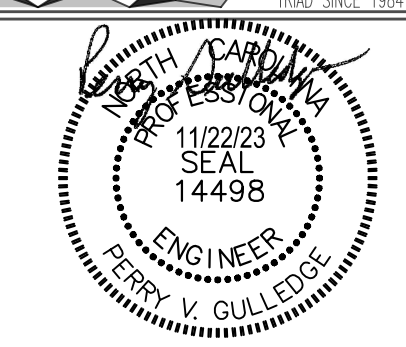
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PLUMBING DEMOLITION & RENOVATION PLAN

P1.0



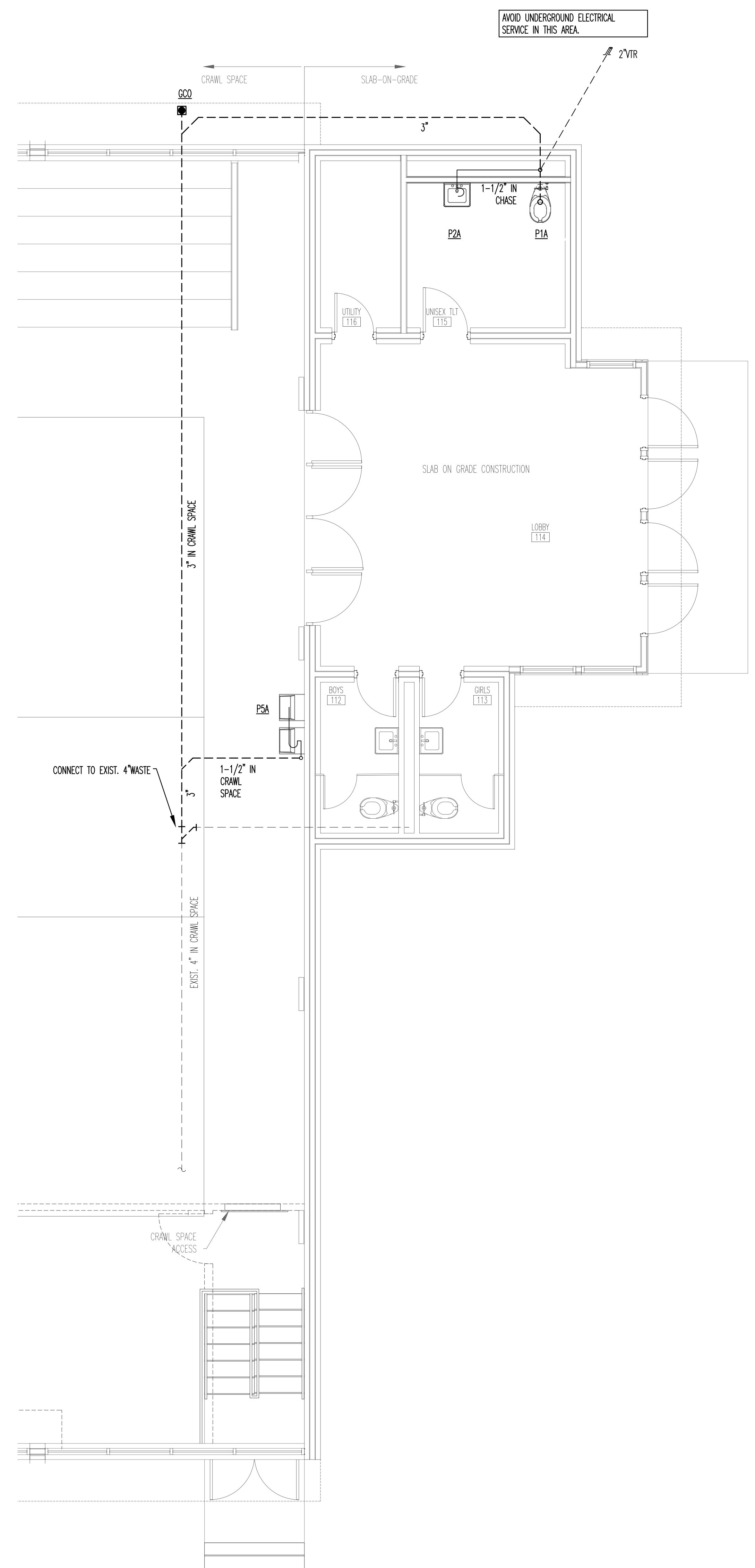
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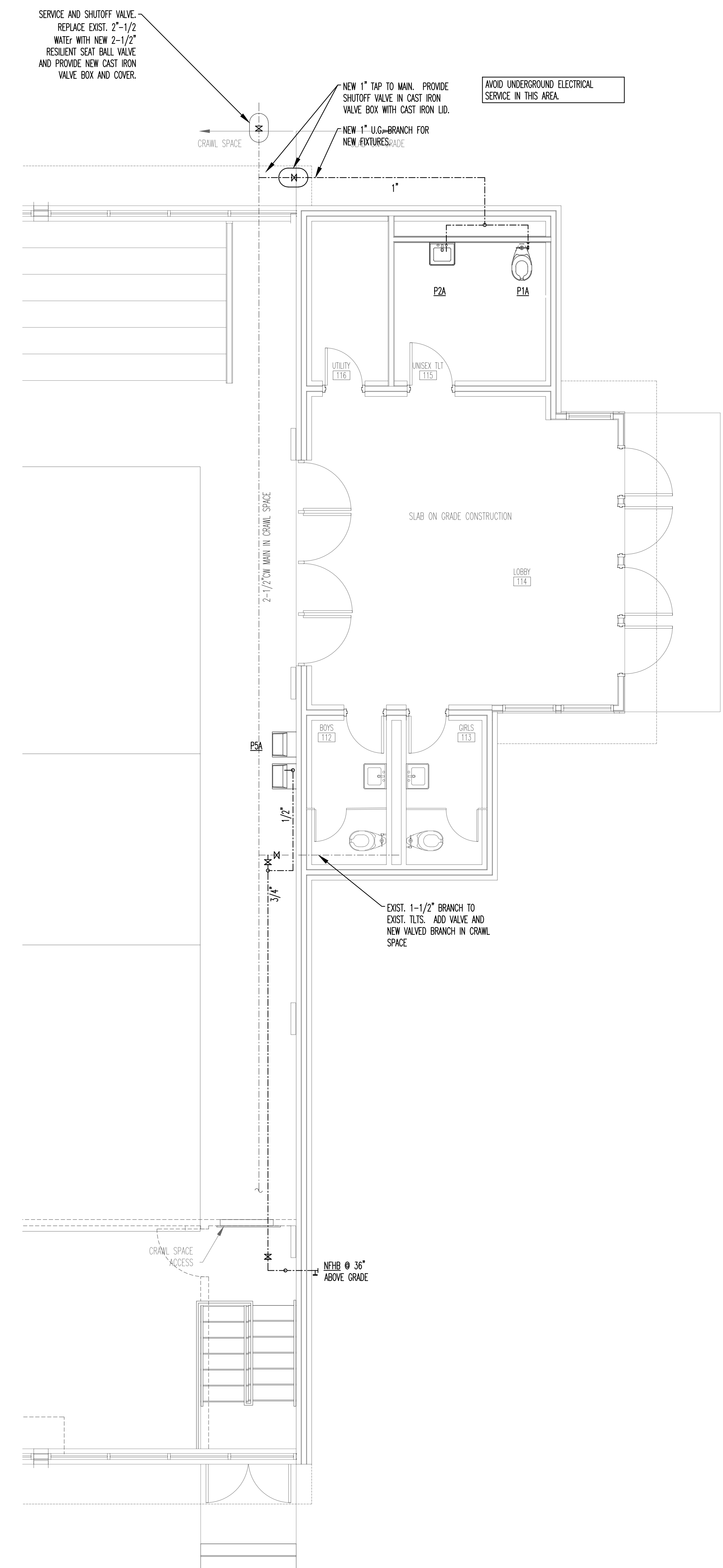
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1
 RENOVAION
 PLUMBING - ENLARGED
 WASTE & VENT PLAN
 SCALE: 1/4" = 1'-0"



2
 RENOVAION
 PLUMBING - ENLARGED
 DOMESTIC WATER PIPING PLAN
 SCALE: 1/4" = 1'-0"

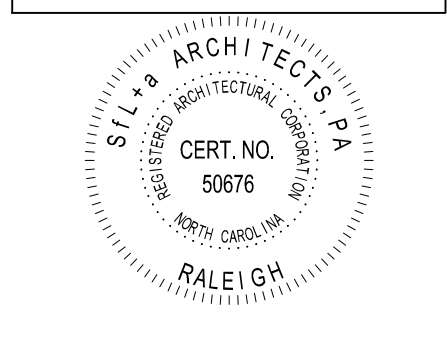
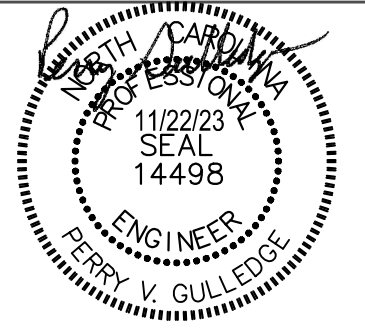
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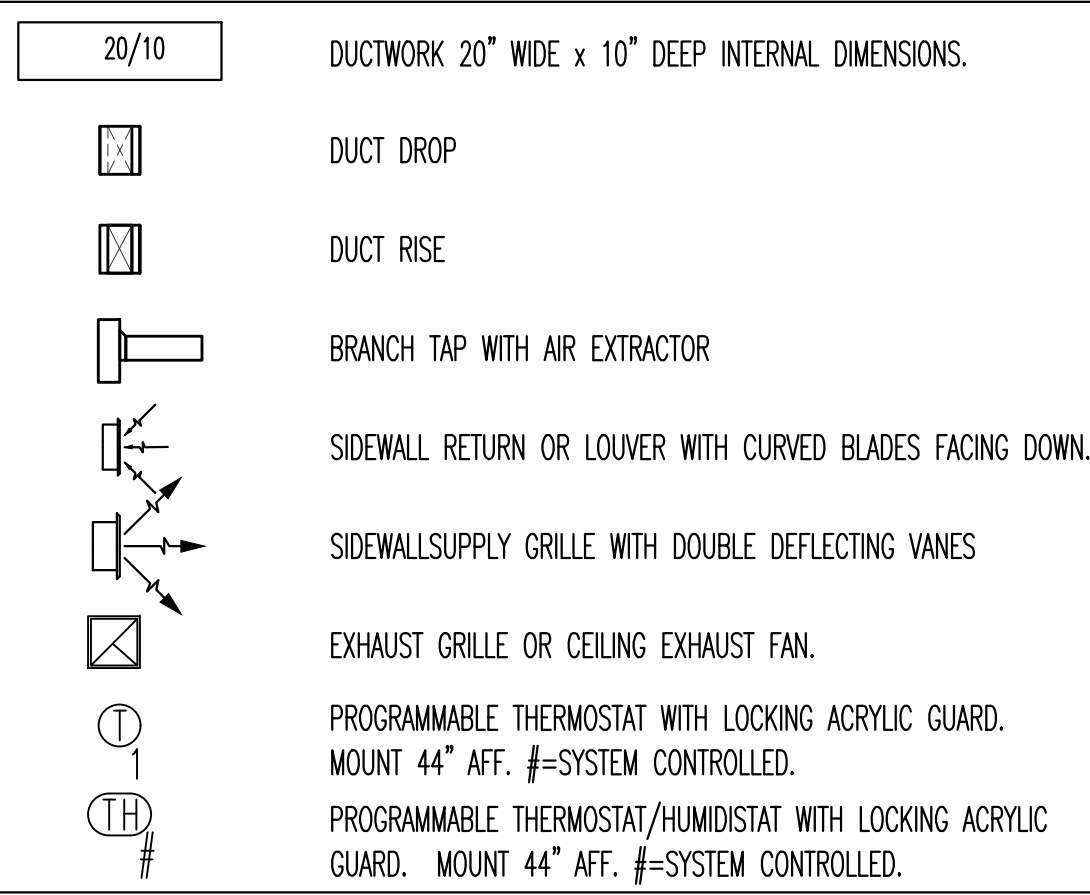
PLUMBING ENLARGED
 RENOVATION PLANS



GENERAL MECHANICAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STATE BUILDING CODE AND LOCAL CODES AND ORDINANCES. MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
- OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS ETC. AS REQUIRED FOR WORK UNDER THIS CONTRACT.
- SCHEDULE ALL REQUIRED INSPECTIONS WITH LOCAL AHJ AND FURNISH PERSONNEL AND ACCESS REQUIRED BY AHJ FOR INSPECTIONS. MAKE CORRECTIONS AS REQUIRED BY INSPECTIONS REPORTS.
- NOTE THAT THE TERM "PROVIDE" WHEN USED IN THIS CONTRACT SHALL MEAN TO FURNISH TO THE SITE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS, START AND ADJUST AS REQUIRED FOR SAFE AND EFFICIENT OPERATION.
- DUCTWORK SHALL BE C-90 GALVANIZED LOCK-FORMING AND PAINT GRADE STEEL FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST PUBLICATION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- PAINT EXPOSED DUCTS WITH 2 COATS PAINT TO MATCH EXISTING WALLS.
- SUPPORT DUCT FROM THE STEEL BUILDING STRUCTURE WITH THROAUGED ROOFS AND ANGLE SUPPORTS. ROUND AND FLEX DUCTS MAY BE SUPPORTED WITH GALVANIZED STEEL STRAPS. DO NOT USE ANY FABRIC SUPPORTS FOR SUPPORTING DUCTS. NOTE THAT JOIST BRIDGING AND CROSS BRACING ARE NOT CONSIDERED AS BUILDING STEEL AND SHALL NOT BE USED TO SUPPORT DUCTS OR EQUIPMENT.
- ELBOWS IN CONCEALED LOCATIONS AND UTILITY ROOMS SHALL BE RADIUS CONSTRUCTION WHEREVER POSSIBLE WITH A CENTERLINE RADIUS EQUAL TO THE WIDTH OF THE DUCT.
- ELBOWS FOR EXPOSED TO NEW DUCT SHALL BE MITERED AND SHALL BE EQUIPPED WITH DOUBLE THICKNESS TURNING VANES.
- FLEXIBLE DUCT SHALL BE UL LISTED HELICAL WIRE REINFORCED FILM INSULATED WITH FIBERGLASS INSULATION AND METALIZED VAPOR BARRIER JACKET. SECURE FLEX DUCTS TO DUCT TAPS AND COLLARS WITH DRAWBANDS OR SCREW-RATCHETED CLAMPS AND TAPE. LIMIT FLEX RUNS TO A MAXIMUM OF 6'.
- INDOOR RECTANGULAR DUCTS SHALL BE INSULATED INTERNALLY WITH 1" THICKNESS 1.5 #/CF LOW VOC FIBERGLASS DUCT LINER SECURED TO DUCTS WITH STICK PINS AND LOW VOC ADHESIVE.
- RECTANGULAR DUCTS EXPOSED TO THE WEATHER SHALL BE INSULATED AS INTERIOR DUCTS PLUS AN ADDITIONAL 1" RIGID DUCT BOARD INSULATION STICK PINNED TO THE EXTERIOR AND COVERED WITH 0.040" THICK ALUMINUM JACKET. HORIZONTAL DUCTS SHALL BE COVERED WITH A 2'-PIECE LENGTHS CONSISTING OF A SINGLE SHEET BROKEN TO COVER THE TOP AND SIDES AND EXTENDING 1" BELOW THE BOTTOM INSULATION COVERING. A BOTTOM PANEL WITH 1" FLANGES SHALL BE SECURED WITH TEK SCREWS 1/2" O.C. THE MATING FLANGES SHALL BE SEALED WITH ALUMINUM COLORED SILICONE SEALANT. JOINTS ON VERTICAL RUNS SHALL OVERLAP 1/2" AND SHALL BE SECURED WITH TEK SCREWS 12" O.C. AND SEALED WITH ALUMINUM COLORED SILICONE SEALANT.
- ROUND AND SPIRAL STEEL DUCTS SHALL BE INSULATED WITH 1-1/2" THICKNESS DUCT WRAP WITH VAPOR BARRIER. SEAL VAPOR BARRIER TO DUCTS AND TO FLEX DUCT VAPOR BARRIER.
- DUCT DIMENSIONS LISTED ON THE PLANS ARE INTERNAL FREE DIMENSIONS. INCREASE DUCT SIZES DURING FABRICATION TO ALLOW FOR DUCT LINER WHERE APPLICABLE.
- PROVIDE FLEXIBLE DUCT CONNECTORS AT DUCT CONNECTIONS TO ALL MOTORIZED EQUIPMENT.
- COORDINATE WITH G.C. TO CUT OPENINGS IN BRICK WALLS FOR DUCT PENETRATIONS AND PROVIDE 5x3x1/4" STEEL ANGLE BOX LINTELS AT EACH WYTHE OF MASONRY WALLS (FOR OPENINGS UP TO 4'-0" WIDE).
- PROVIDE A THIRD PARTY AGENT TEST AND BALANCE FOR ALL NEW HVAC EQUIPMENT. FURNISH CERTIFIED TEST AND BALANCE REPORT LISTING MODEL AND SERIAL NUMBERS FOR EACH FAN, HEATING EQUIPMENT, COOLING EQUIPMENT, AIR HANDLING EQUIPMENT, MOTOR NAMEPLATE DATA, AND MOTOR PERFORMANCE CHARACTERISTICS. REPORT SHALL LIST DESIGN AND FINAL FLOW FOR FANS AND AIR DISTRIBUTION, HEATING COIL PERFORMANCE, COOLING COIL PERFORMANCE, AND SHALL LIST DESIGN VS FINAL SETTING VALUES FOR EACH.
- WARRANTY ALL WORK, EQUIPMENT, AND MATERIALS (PARTS AND LABOR) FOR A MINIMUM OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. REFRIGERATION COMPRESSORS SHALL CARRY AN ADDITIONAL 4 YEAR (MINIMUM) PARTS WARRANTY.

MECHANICAL LEGEND



FAN SCHEDULE - VASS

TAG	SERVICE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE ("H2O)	MAKE (OR EQUAL)	MODEL	DRIVE	FAN SPEED (RPM)	MOTOR SPEED (RPM)	MAX SOUND (SONES)	MOTOR POWER (WATTS)	MOTOR HP OR WATTS	VOLTAGE (VOLTS/PH/PHZ)	WEIGHT (LBS)	REMARKS
EF-1	TLT EXHAUST	80	0.25	GREENHECK	SP-A90	DIRECT	900	900	0.4	15	W	120/1/60	12	NOTES 1-4

NOTES
 1. UNIT MOUNTED DISCONNECT SWITCH.
 2. GRAVITY BACKDRAFT DAMPER.
 3. WALL CAP DISCHARGE FITTING.
 4. VIBRATION ISOLATION SUPPORTS.

GENERAL NOTES
 1. OR EQUAL FANS BY AMERICAN COOLAIR, CARNES, COOK, PENN.

PACKAGED EXTERIOR WALL MOUNTED DX HEAT PUMP/ELECTRIC HEATING UNIT SCHEDULE - VASS-LAKEVIEW

UNIT TAG	NOMINAL COOLING CAPACITY (TONS)	MANUFACTURER (OR EQUAL)	OUTDOOR UNIT MODEL #	APPLICATION ORIENTATION	INDOOR AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE ("W.C.)	MINIMUM OUTSIDE AIRFLOW (CFM)	MAXIMUM OUTSIDE AIRFLOW (CFM)	DRY BULB TEMP (F)	WET BULB TEMP (F)	NET COOLING CAPACITY (MBH)	MINIMUM COOLING EFFICIENCY (EER)	COMP QTY (#)	COOLING CAPACITY LOADING (STAGES)	HIGH TEMP			LOW TEMP			FAN/HEATER				ELECTRICAL CHARACTERISTICS				WEIGHT	REMARKS
															HEATING CAPACITY (MBH)	MINIMUM HEATING EFFICIENCY (COP)	HEATING CAPACITY (MBH)	MINIMUM HEATING EFFICIENCY (COP)	FAN MOTOR (HP)	DRIVE TYPE	STRIP HEAT (KW)	STRIP HEAT STAGES	UNIT VOLTAGE (V/PH/PHZ)	MAX M.C.A. (AMPS)	MAX M.O.C.P. (AMPS)	MAX WEIGHT (LBS)				
WMHP-1	3	BARD	W36HCD-B 09XP6	EXT. WALL MT.	1150	0.1	200	200	78.5	64.8	36.00	11.1	1	1	33.00	3.3	21.00	2.3	0.75	DIRECT	9	1	208/3/60	47	50	600	NOTES 1-12			

NOTES
 1. UNIT BY BARD OR MARVAIR WITH SINGLE POINT POWER CONNECTION. R-410A REFRIGERANT.
 2. NOMINAL CAPACITY LISTED IS FOR REFERENCE ONLY. SYSTEMS MUST MEET MINIMUM SCHEDULED COOLING AND HEATING CAPACITIES AND EFFICIENCIES AND MAXIMUM ELECTRICAL VALUES.
 3. MULTISPEED MOTOR.
 4. SINGLE POINT POWER CONNECTION WITH INTERNAL WIRING TO HEATERS AND FAN MOTOR.
 5. HOT GAS REHEAT COIL AND DEHUMIDIFICATION CONTROLS.
 6. PROVIDE 2 SETS OF PLEATED MEDIA FILTERS FOR EACH UNIT. CHANGE FILTERS AT FINAL COMPLETION.
 7. BACNET CARD TO INTERFACE WITH EXISTING TRANE SC OPEN PROTOCOL BACNET SYSTEM WITH GRAPHIC FOR SCHEDULING, MONITORING, REPORTING.
 8. UPDATE SYSTEM GRAPHICS TO SHOW NEW SYSTEM, CONTROL AND MONITORED DATA POINTS.
 9. ROOM TEMP/HUMIDITY SENSOR FOR TEMPERATURE AND HUMIDITY CONTROL TO SETPOINTS.
 10. FURNISH COMPLETE WITH MOUNTING BRACKETS AND FLASHING FOR INSTALLATION TO FRAMED WALL STRUCTURE.
 11. WARRANTY COMPLETE UNIT PARTS AND LABOR FOR ONE YEAR.
 12. WARRANTY COMPRESSOR PARTS FOR AN ADDITIONAL 4 YEARS.

AIR DISTRIBUTION SCHEDULE - VASS

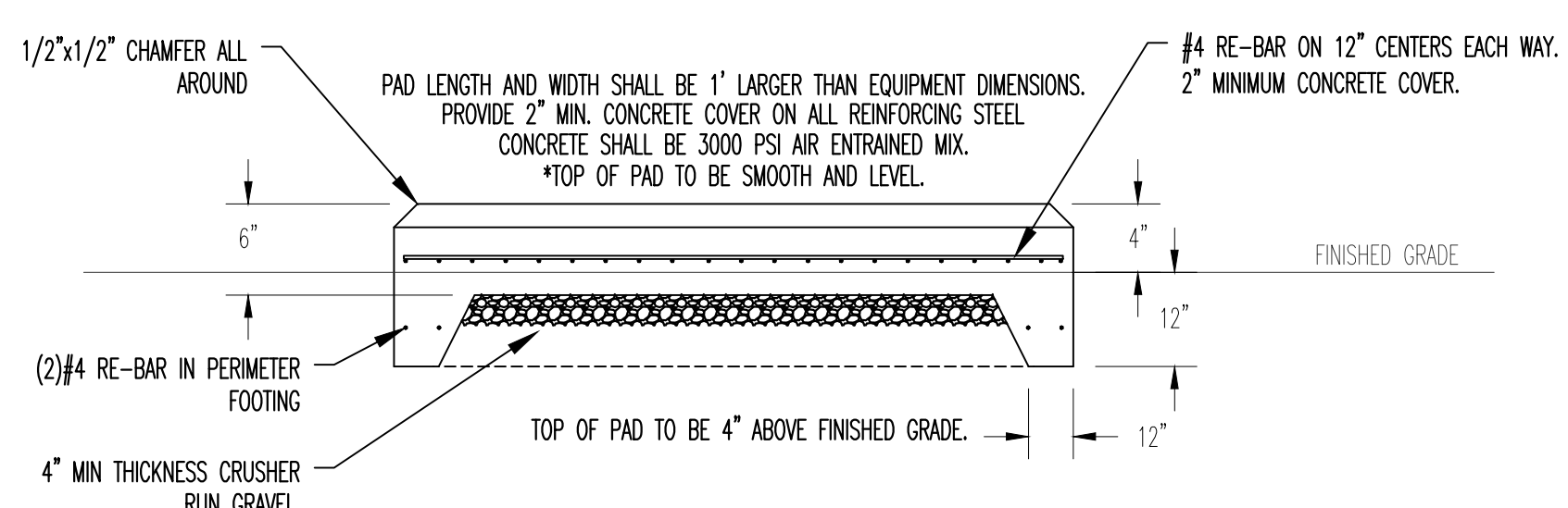
TAG	MANUFACTURER (OR EQUAL)	MODEL	SERVICE	TYPE	MOUNTING	NECK SIZE	AIRFLOW RANGE (CFM)	PANEL SIZE	REMARKS
S1	PRICE	HCD/AL/2B/B12	SUPPLY	SPLIT BLADE INDUSTRIAL DRUM LOUVER	DUCT	60x15	0-5250	N/A	SEE NOTES
S5	PRICE	520/DF/S/B12	SUPPLY	DOUBLE DEFLECTING	WALL SURFACE	30x10	1000-1750	N/A	SEE NOTES
R3	PRICE	535/F/S/A	RETURN	LOUVERED 45 DEGREE BLADES SPACED 1/2"	WALL SURFACE	20x12	0-600	N/A	SEE NOTES
R5	PRICE	96/S/B12/A/F	RETURN	HEAVY DUTY GYM GRILLE LOUVERED 45 DEGREE BLADES SPACED 3/4"	WALL SURFACE	36x60	0-5250	N/A	SEE NOTES

NOTES
 1. EQUAL DEVICES BY METALAIR, TITUS, TUTTLE & BAILEY ARE ACCEPTABLE.
 2. UNLESS NOTED OTHERWISE, FINISH FOR ALL DEVICES IS OFF-WHITE BAKED ENAMEL.
 3. SUPPLY AND EXHAUST DEVICES TO BE FURNISHED WITH OPPOSED BLADE DAMPER.

PACKAGED DX HEAT PUMP WITH ELECTRIC HEAT & HOT GAS REHEAT UNIT SCHEDULE - VASS

SYSTEM TAG	NOMINAL COOLING CAPACITY (TONS)	MANUFACTURER (OR EQUAL)	OUTDOOR UNIT MODEL #	APPLICATION ORIENTATION	INDOOR AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE ("W.C.)	MINIMUM OUTSIDE AIRFLOW (CFM)	MAXIMUM OUTSIDE AIRFLOW (CFM)	DRY BULB TEMP (F)	WET BULB TEMP (F)	NET COOLING CAPACITY (MBH)	MINIMUM COOLING EFFICIENCY (EER)	COMP QTY (#)	COOLING CAPACITY LOADING (STAGES)	HOT GAS REHEAT COIL PERFORMANCE			FAN/HEATER				ELECTRICAL CHARACTERISTICS				WEIGHT	REMARKS		
															RE-HEAT CAPACITY (MBH)	ENTERING DRY BULB TEMP (F)	LEAVING DRY BULB TEMP (F)	FAN MOTOR (HP)	DRIVE TYPE	STRIP HEAT (KW)	STRIP HEAT STAGES	UNIT VOLTAGE (V/PH/PHZ)	MAX M.C.A. (AMPS)	MAX M.O.C.P. (AMPS)	MAX WEIGHT (LBS)				
PHP-1.2	15	TRANE	WHJ180AS30G	HORIZONTAL	5250	0.5	500	5250	78.9	63.8	174.54	12.0	2	2	99.28	2.09	116.61	52.74	72.15	51.81	2.9	DIRECT PLENUM	18	1	208/3/60	124	125		SEE NOTES

NOTES
 1. SYSTEMS BY CARRIER, TRANE, YORK OR DAIKIN WITH SINGLE POINT POWER CONNECTION. R-410A REFRIGERANT.
 2. NOMINAL CAPACITY LISTED IS FOR REFERENCE ONLY. SYSTEMS MUST MEET MINIMUM SCHEDULED COOLING AND HEATING CAPACITIES AND EFFICIENCIES AND MAXIMUM ELECTRICAL VALUES.
 3. SINGLE POINT POWER CONNECTION WITH INTERNAL WIRING TO HEATERS AND FAN MOTOR.
 4. MODULATING HOT GAS REHEAT DEHUMIDIFICATION SEQUENCE TO COOL WHEN SPACE IS ABOVE HUMIDITY SETPOINT AND UTILIZE HOT GAS REHEAT IF TEMP FALLS BELOW SETPOINT WHILE DEHUMIDIFYING.
 5. NOT USED.
 6. FACTORY SMOKE DETECTOR INSTALLED IN RETURN AIR PATH OF UNIT.
 7. PROVIDE 2 SETS OF PLEATED MEDIA FILTERS FOR EACH UNIT. CHANGE FILTERS AT FINAL COMPLETION.
 8. COMPARATIVE ENTHALPHY CONTROLLED FAN POWERED ECONOMIZER. MOUNT TO HORIZONTAL RETURN DUCT.
 9. PROVIDE WITH PROGRAMMABLE MODULE TO INTEGRATE WITH EXISTING TRANE SC OPEN PROTOCOL BACNET CONTROL SYSTEM FOR CONTROL AND SCHEDULING. UPDATE GRAPHICS TO SHOW NEW SYSTEMS AND INTERNAL DATA POINTS.
 10. BACNET CARD TO INTERFACE WITH EXISTING TRANE SC OPEN PROTOCOL BACNET SYSTEM WITH GRAPHIC FOR SCHEDULING, MONITORING, REPORTING.
 11. UPDATE SYSTEM GRAPHICS TO SHOW NEW SYSTEM, CONTROL AND MONITORED DATA POINTS.
 12. ROOM TEMP/HUMIDITY SENSOR FOR TEMPERATURE AND HUMIDITY CONTROL TO SETPOINTS.
 13. WARRANTY PARTS AND LABOR FOR ENTIRE UNIT FOR 1 YEAR.
 14. WARRANTY COMPRESSOR PARTS FOR AN ADDITIONAL 4 YEARS.



List of Drawings Vass-Lakeview

SHEET	DESCRIPTION
M0.1	LEGEND, NOTES, SCHEDULES
M1.0	DEMOLITION PLAN
M1.1	RENOVATION PLAN
M6.1	CONTROLS DIAGRAMS

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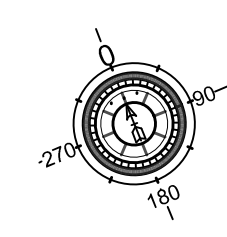
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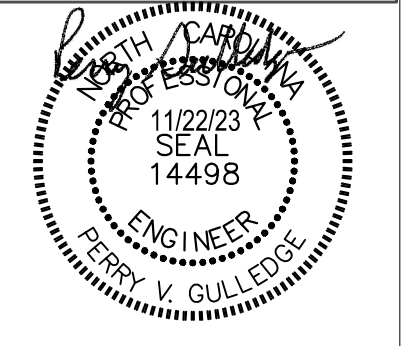
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MECHANICAL
 LEGEND, NOTES,
 SCHEDULES

M0.1



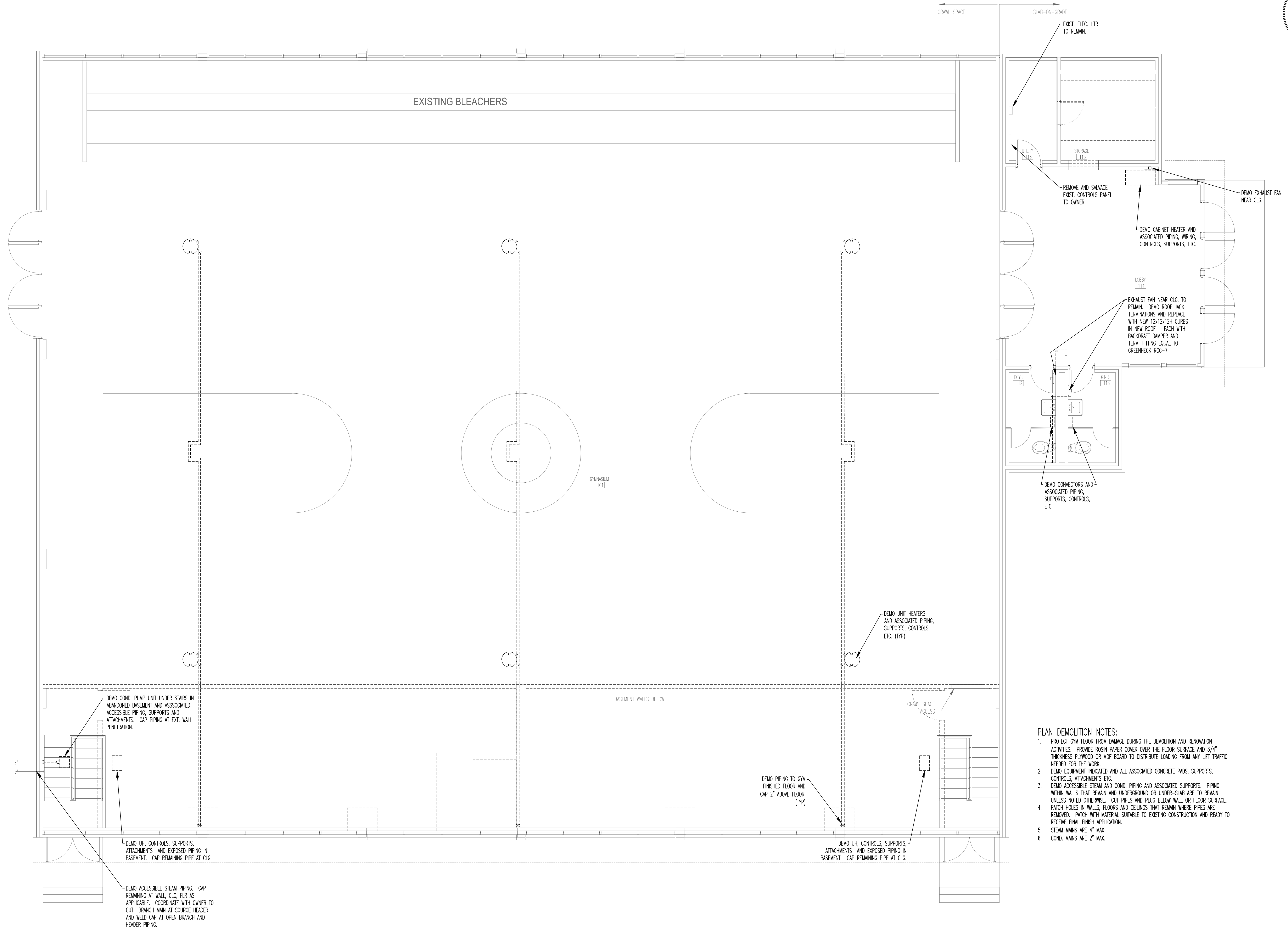
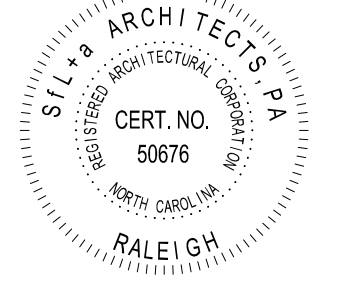
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 ARCHITECTS



- PLAN DEMOLITION NOTES:**
1. PROTECT GYM FLOOR FROM DAMAGE DURING THE DEMOLITION AND RENOVATION ACTIVITIES. PROVIDE ROSIN PAPER COVER OVER THE FLOOR SURFACE AND 3/4" THICKNESS PLYWOOD OR MDF BOARD TO DISTRIBUTE LOADING FROM ANY LIFT TRAFFIC NEEDED FOR THE WORK.
 2. DEMO EQUIPMENT INDICATED AND ALL ASSOCIATED CONCRETE PADS, SUPPORTS, CONTROLS, ATTACHMENTS ETC.
 3. DEMO ACCESSIBLE STEAM AND COND. PIPING AND ASSOCIATED SUPPORTS. PIPING WITHIN WALLS THAT REMAIN AND UNDERGROUND OR UNDER-SLAB ARE TO REMAIN UNLESS NOTED OTHERWISE. CUT PIPES AND PLUG BELOW WALL OR FLOOR SURFACE.
 4. PATCH HOLES IN WALLS, FLOORS AND CEILINGS THAT REMAIN WHERE PIPES ARE REMOVED. PATCH WITH MATERIAL SUITABLE TO EXISTING CONSTRUCTION AND READY TO RECEIVE FINAL FINISH APPLICATION.
 5. STEAM MAINS ARE 4" MAX.
 6. COND. MAINS ARE 2" MAX.

**MECHANICAL
 HVAC DEMOLITION PLAN**
 1 M1.0 SCALE: 1/4" = 1'-0"

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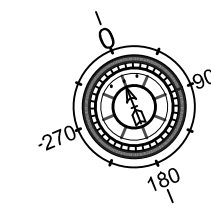
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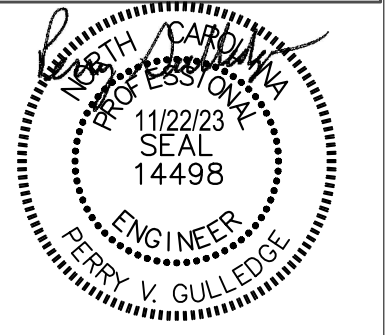
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**MECHANICAL
 DEMOLITION PLAN**

M1.0

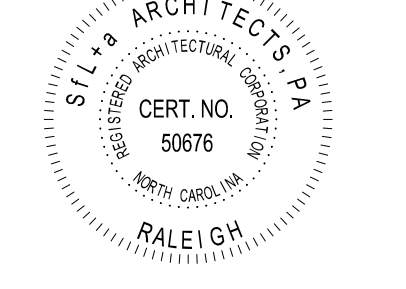


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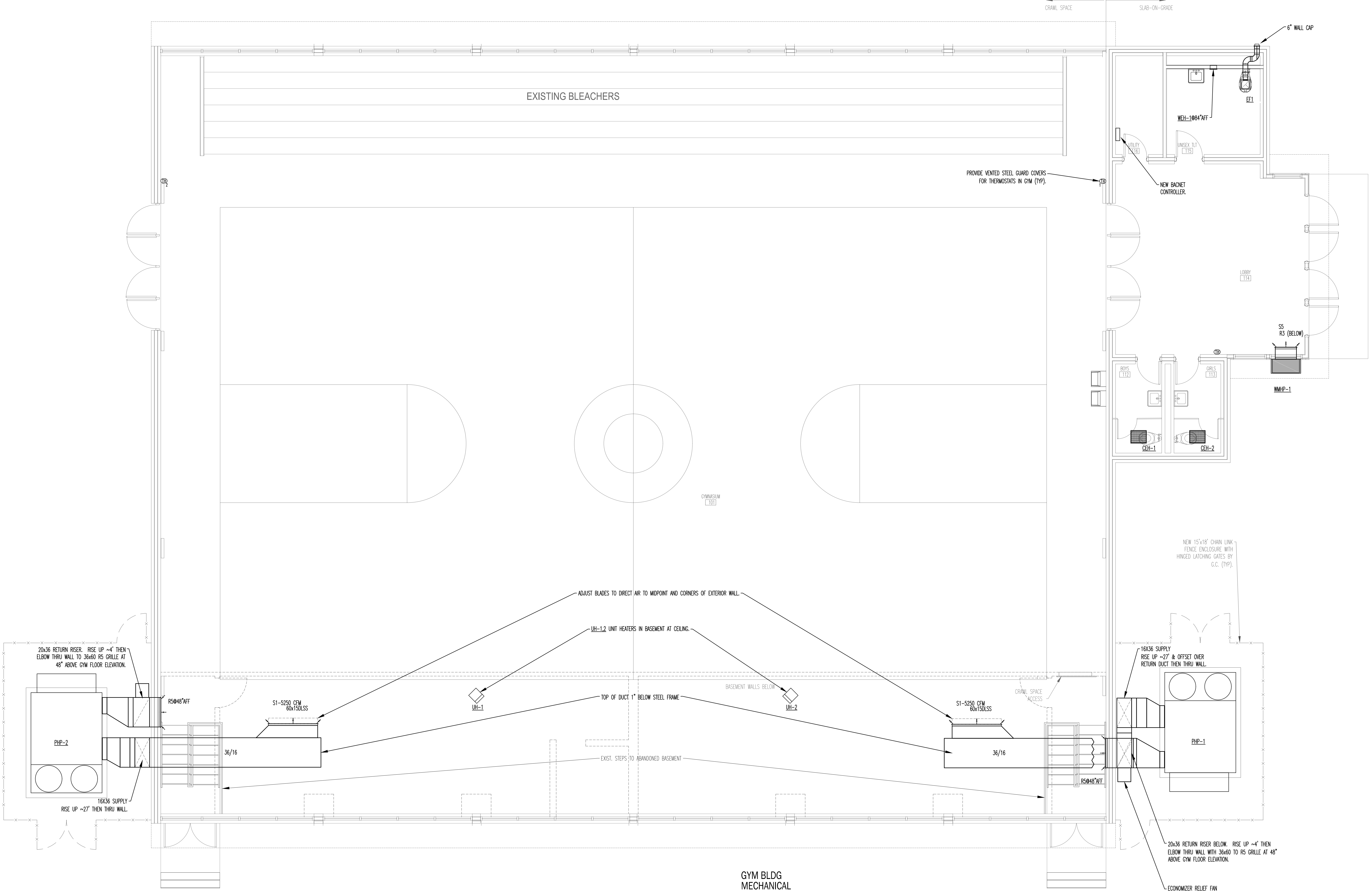
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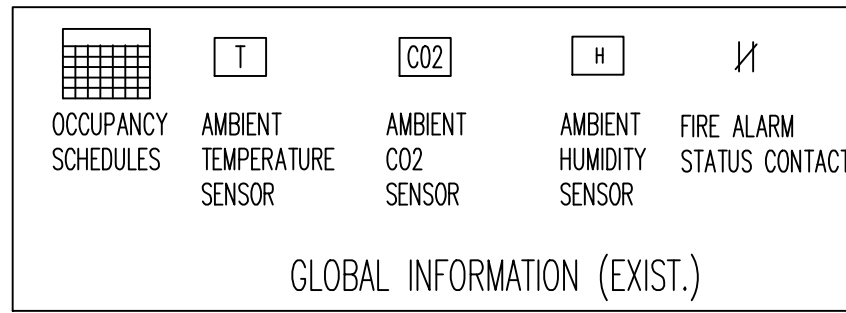
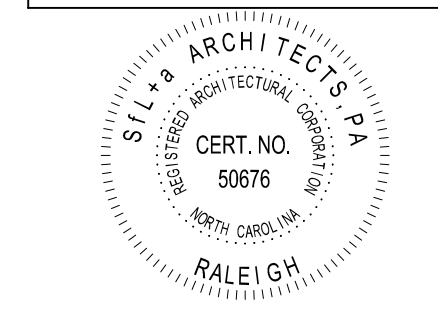
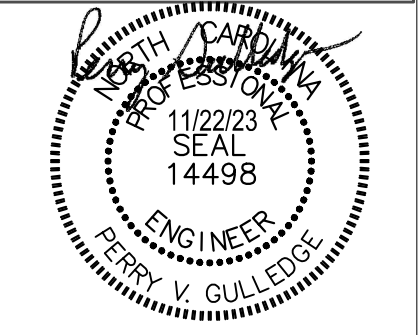
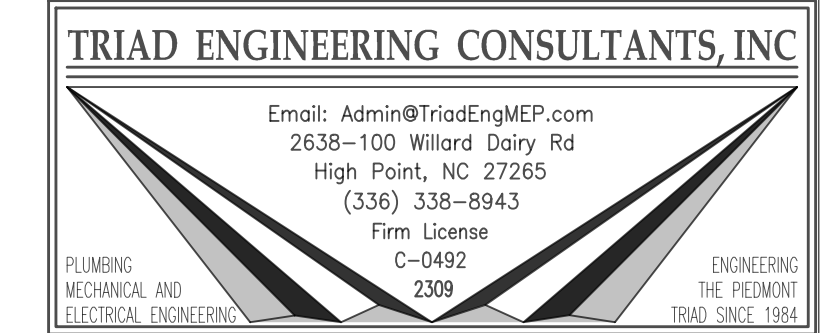
GYM BLDG
 MECHANICAL
 HVAC PLAN
 M1.1 SCALE: 1/4" = 1'-0"

No.	Date	Description

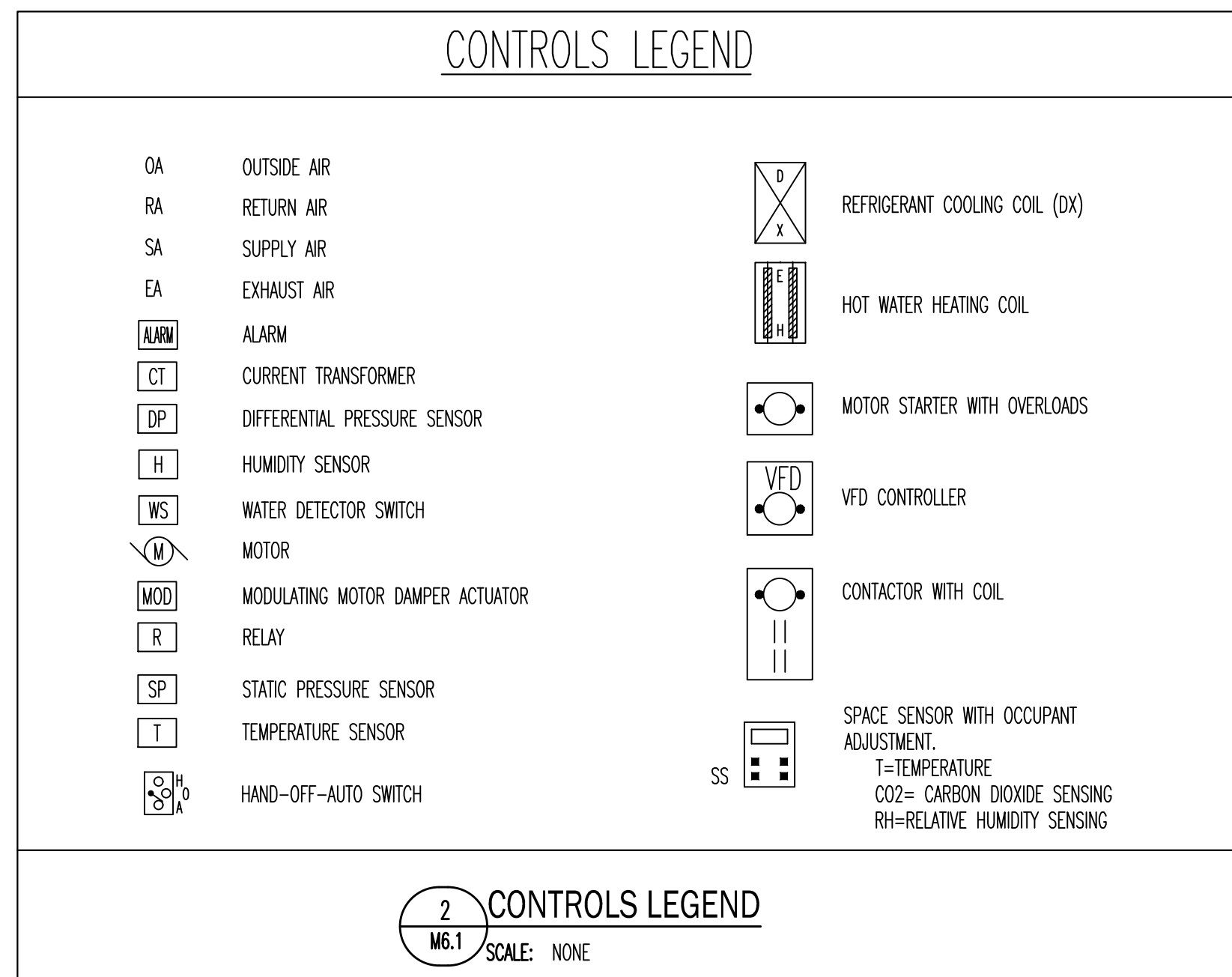
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MECHANICAL RENOVATION PLAN

M1.1



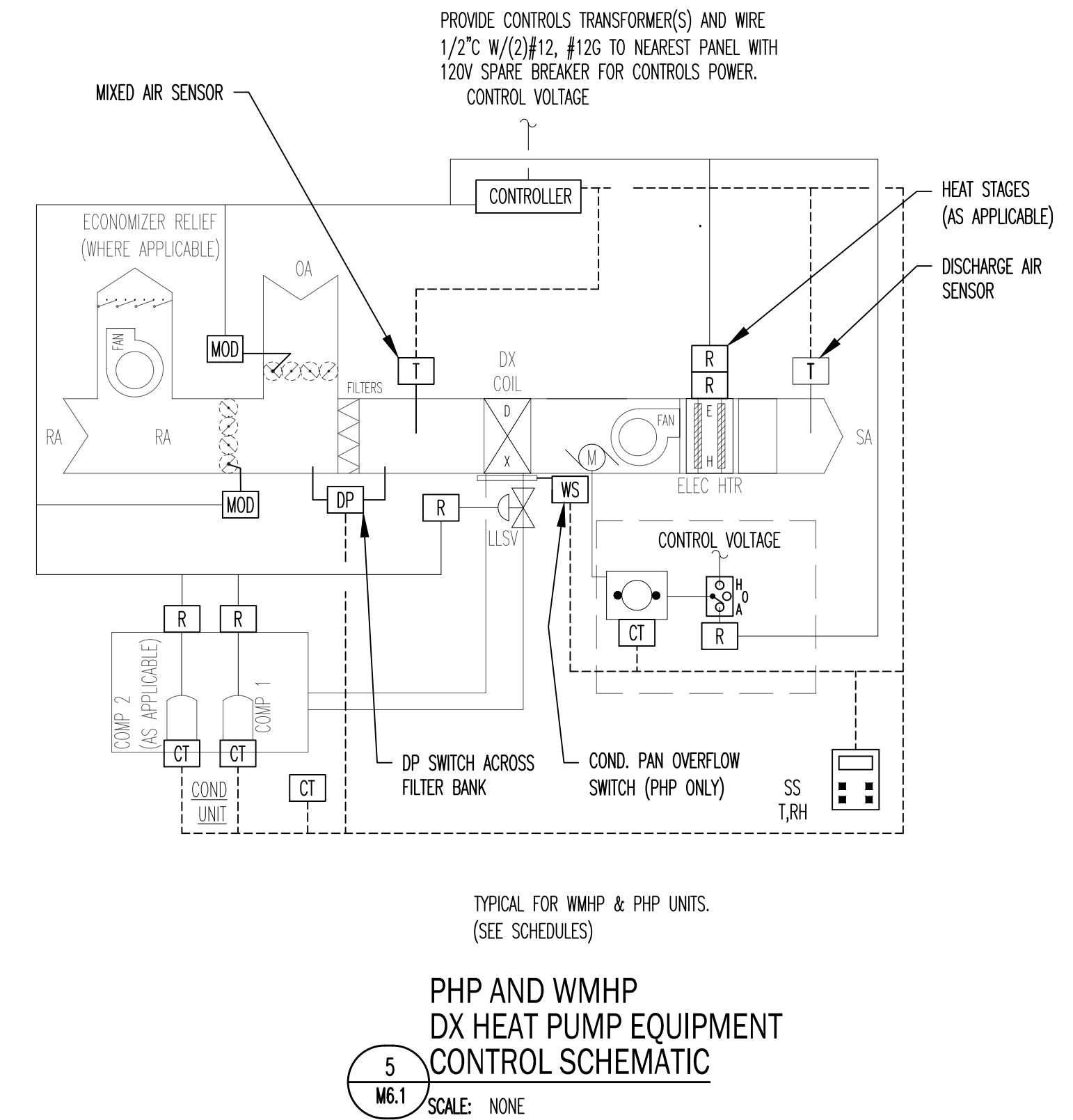
3 GLOBAL INFORMATION SCHEMATIC
M6.1 SCALE: NONE



2 CONTROLS LEGEND
M6.1 SCALE: NONE

1. INTEGRATE WITH EXISTING TRANE SC OPEN PROTOCOL BACNET SYSTEM OVER IP.
2. LOCATE BUILDING CONTROLLER IN UTILITY ROOM.
3. COORDINATE IP ADDRESS ASSIGNMENT WITH OWNER IT PERSONNEL AT LEAST 30 DAYS BEFORE NEEDED FOR COMMUNICATION.
4. PROVIDE CONTROLLER FOR EACH SYSTEM - SYSTEMS SHALL NOT SHARE INPUT/OUTPUT POINTS FROM A COMMON CONTROLLER.
5. PROVIDE CONTROLS NETWORK WIRING TO CONNECT ALL CONTROLLERS.
6. CONTROLS WIRING IN MECHANICAL ROOMS AND OPEN STRUCTURE SHALL BE IN CONDUIT. WIRING ABOVE ACCESSIBLE CEILINGS MAY BE OPEN CABLE PROVIDED THE CABLE IS PLENUM RATED AND IS SUPPORTED FROM THE BUILDING STRUCTURE WITH J-HOOKS OR OTHER APPROVED METHODS PROVIDED UNDER THIS CONTRACT.
7. DEMOLISH OLD CONTROLS SYSTEM COMPONENTS AND SALVAGE EQUIPMENT AND SENSORS TO OWNER FOR REUSE AS BACKUP STOCK FOR OTHER SITES.
8. REFER TO SEQUENCES OF OPERATIONS IN EXIST. DDC CONTROLS SYSTEM DOCUMENTATION FOR A DESCRIPTION OF OPERATIONAL SEQUENCES.
9. PROVIDE OVERALL GRAPHIC DISPLAY OF BUILDING WITH SYSTEM TAG NUMBERS, SENSORS, ROOMS, ZONES, ETC. SHOW ALARM FOR ZONES THAT ARE NOT WITHIN 0.5F OF SETPOINT FOR LONGER THAN 3 MINUTES.
10. PROVIDE GRAPHIC DISPLAY FOR EACH SYSTEM SHOWING ALL INPUT AND OUTPUT POINTS. POINTS SHALL HAVE ON-SCREEN OVERRIDE CAPABILITY AND SHALL INDICATE WHEN MANUAL OVERRIDE IS ACTIVE.

1 GENERAL CONTROLS NOTES
M6.1 SCALE: NONE



TYPICAL FOR WMHP & PHP UNITS.
(SEE SCHEDULES)
5 PHP AND WMHP DX HEAT PUMP EQUIPMENT CONTROL SCHEMATIC
M6.1 SCALE: NONE

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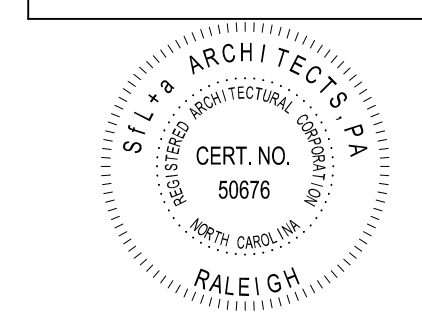
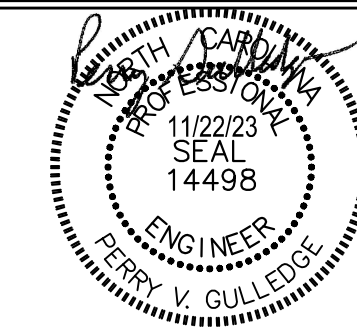
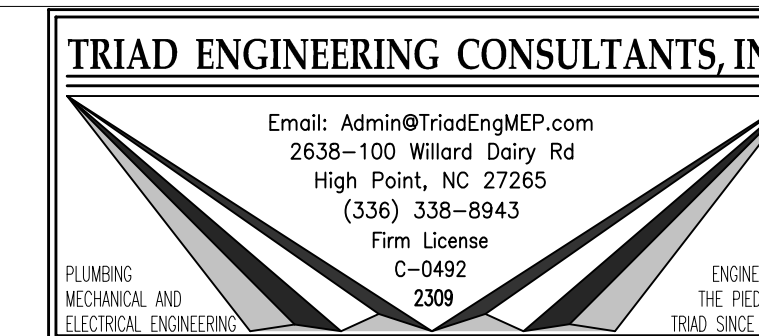
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CONTROLS DIAGRAMS

M6.1



GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE WITH STATE AND LOCAL REVISIONS AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY OWNER.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND U.L. LISTED UNLESS SPECIFICALLY NOTED OTHERWISE.
- NOTE THAT THE TERM "PROVIDE" WHEN USED IN THESE DRAWINGS SHALL MEAN TO FURNISH, TRANSPORT TO THE SITE, INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR SAFE AND EFFICIENT OPERATION.
- VERIFY EXISTING WIRING CONTINUITY AND NEUTRAL ISOLATION WHEN WIRING NEW DEVICES TO EXISTING WIRING.
- COORDINATE WITH G.C. FOR SURFACE RACEWAY FINISH. UNLESS NOTED OTHERWISE, PAINT SURFACE RACEWAY TO MATCH WALL OR CEILING TO WHICH IT IS ATTACHED.
- GENERAL BUILDING WIRING SHALL BE COPPER CONDUCTORS, THIN/THIN INSULATION RATED AT NOT LESS THAN 600 VOLTS. MINIMUM WIRE SIZE IS #12 AWG THIN. CONDUCTORS #6 AND LARGER SHALL BE STRANDED. SIZES #12 THRU #8 SHALL BE SOLID. WIRING TO EQUIPMENT SHALL BE AS REQUIRED BY U.L. LABEL. INSULATION COLOR SHALL BE COLOR CODED BASED ON THE SERVICE VOLTAGE.
- GENERAL BUILDING WIRING SHALL ONE OF THE FOLLOWING METHODS IN COMPLIANCE WITH NEC REQUIREMENTS:
 - INDIVIDUAL CONDUCTORS INSTALLED IN CONDUIT - FOR ALL FEEDERS, BRANCH CIRCUITS, SWITCHING, RECEPTABLES ETC.
 - MC CABLE WITH COPPER CONDUCTORS, ALUMINUM ARMOR, SEPARATE GROUND WIRE FOR LIGHT FIXTURE WHIPS AND EQUIPMENT CONNECTIONS ONLY. DO NOT USE MC CABLE FOR FEEDERS, BRANCH CIRCUITS, RECEPTABLES OR SWITCHLEG WIRING.
- TERMINALS, SPLICING CONNECTORS, LUGS, ETC. FOR CONNECTING CONDUCTORS SHALL BE LISTED FOR USE WITH THE TYPE OF CONDUCTOR CONNECTED AND SHALL BE PROPERLY INSTALLED.
- NEATLY ROUTE AND TRAIL CONDUCTORS IN PANEL ENCLOSURES AND SECURE BUNDLES OF CONDUCTORS WITH PLASTIC ZIP TIES. CONDUCTOR LEG RUNOUTS TO BREAKER TERMINALS SHALL RUN HORIZONTAL TO A 90 DEGREE BEND AT THE BUNDLE AND SHALL BE LABELED.
- CONDUIT SHALL BE INSTALLED WITH LISTED FITTINGS, SUPPORTS, ATTACHMENTS, STRAPS AND/OR CLAMPS. RUN CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING WALLS. PROVIDE SEPARATE SUPPORT SYSTEM FOR CONDUIT.
- USE EMT CONDUIT INDOORS FOR SIZES 1/2" THRU 4". USE COMPRESSION GLAND FITTINGS AND COUPLINGS.
- USE RMC OR IMC FOR EXPOSED OUTDOOR APPLICATIONS. USE THREADED FITTINGS AND COUPLINGS.
- USE SCHEDULE 40 PVC BELOW GRADE OR FLOOR SLAB EXCEPT FIRST ELBOW SHALL BE RMC. SOLVENT WELD ALL FITTINGS AND COUPLINGS AND ADAPTERS. PROVIDE ADAPTERS TO TRANSITION TO METAL CONDUIT.
- USE IMC OR RMC WHERE OTHERWISE REQUIRED BY CODE OR WHERE SUBJECT TO PHYSICAL DAMAGE. USE IMC OR RMC FOR CONDUIT INSTALLED IN HAZARDOUS AREAS. USE IMC OR RMC ELBOWS WHERE TRANSITIONING FROM BELOW GRADE TO ABOVE GRADE.
- LABEL DEVICES AND EQUIPMENT. PROVIDE AN EMBOSSED ADHESIVE TAPE LABEL ON EACH RECEPTACLE, LIGHT SWITCH, EMERGENCY EGRESS LIGHTING FIXTURE, EXIT LIGHTING FIXTURE, CONTROL DEVICE STATION, AND OTHER MISCELLANEOUS ITEMS. INDICATE PANELBOARD AND CIRCUIT NUMBER ON THE LABEL TO READILY IDENTIFY WHERE THE DEVICE IS SERVED FROM. LABELS FOR LIGHT SWITCHES SHALL BE PLACED ON THE BACK OF THE COVERPLATE. THE LETTERING SHALL BE 3/16" WHITE LETTERS ON BLACK BACKGROUND OR BLACK LETTERS ON CLEAR BACKGROUND.
- LABEL INDIVIDUAL CONDUCTORS IN PANELBOARD, SWITCHBOARDS, JUNCTION BOXES, DEVICE BOXES, ETC. WITH WIRE MARKERS IDENTIFYING THE CIRCUIT POSITION NUMBER TO WHICH THE CONDUCTOR IS CONNECTED.
- FINAL LABELING FOR PANEL DIRECTORIES SHALL BE PER THE FINAL ROOM NUMBERS OR NAMES. THE PANEL DIRECTORIES SHALL BE TYPED.
- A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH ARTICLE 250 OF THE CURRENT NEC SHALL BE INSTALLED (OR VERIFIED IF AN EXISTING SYSTEM), AND AS SHOWN ON THE DRAWINGS.
- PROVIDE ALL CUTTING AND PATCHING OF WALLS AND FLOORS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT.
- PROVIDE NYLON PULL WIRE IN ALL EMPTY CONDUITS.
- PROTECT ALL ELECTRICAL EQUIPMENT FROM ENTRY OF FOREIGN MATERIAL SUCH AS PAINT, SPACKLE, FIREPROOFING, ETC. DURING CONSTRUCTION. REPLACE ALL EQUIPMENT THAT IS CONTAMINATED BY OVSERSPRAY OF PAINT, SPACKLE, FIREPROOFING, ETC.

WIRING DEVICE NOTES

- WIRING DEVICES SHALL BE EQUAL TO P & S, LEVITON, OR HUBBELL. CATALOG NUMBERS BELOW ARE FOR PAS DEVICES. SUBSTITUTE COLOR CODE FOR "X" EXCEPT WHERE (WHITE) IS INDICATED FOLLOWING THE MODEL #. DEVICE COLOR FOR THIS PROJECT SHALL BE BLACK.
- SWITCHES SHALL BE HARD USE & COMMERCIAL SPECIFICATION GRADE AS FOLLOWS:

SINGLE POLE 20A	CSB20AC1-X
3-WAY 20A	CSB20AC3-X
4-WAY 20A	CSB20AC4-X
MOTOR STARTER SWITCH	SQUARE D TYPE "X" SERIES
- RECEPTABLES SHALL BE CONSTRUCTED WITH NYLON FACE, SIDE-WIRE SCREW TERMINALS WITH BRASS STRAP, BRASS BLADE CONTACTS, BRASS PRESSURE PLATE, BRASS TERMINAL SCREWS, AND GREEN COLORED BRASS GROUND HEX HEAD SCREW. FACE IS RESTRAINED TO BODY BY TABS ON STRAP. GFCI RECEPTACLE SHALL INCLUDE A TRIP INDICATOR LIGHT. RECEPTABLES SHALL BE HEAVY-DUTY HARD USE SPECIFICATION GRADE AS FOLLOWS:

20A DUPLEX	PSS362X
20A DUPLEX-GFCI	2097TRW (WHITE)
20A DUPLEX-WEATHER RESISTANT GFCI	2097TRWR (WHITE)
- COVERPLATES FOR RECESS MOUNTED DEVICES SHALL BE OVERSIZED STAINLESS STEEL SSJX OR AS DIRECTED BY ARCHITECT.
- COVERPLATES FOR SURFACE MOUNTED DEVICES IN UTILITY LOCATIONS SHALL BE GALVANIZED STEEL.
- OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK. OFFSET 24" MINIMUM IN FIRE RATED WALL CONSTRUCTION.
- RECEPTABLES SHALL BE 20A UNLESS A 15A DEVICE IS REQUIRED BY EQUIPMENT SERVED.
- WEATHERPROOF IN USE COVERS SHALL BE CLEAR EQUAL TO LEVITON. FOR HORIZONTAL MOUNT COVERS USE PART NO. "5997-CL". FOR VERTICAL MOUNT COVERS USE PART NO. "5977-CL".
- ALL BOXES (INCLUDING EMPTY, TELEPHONE, AND DATA) SHALL HAVE COVERPLATES INSTALLED.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	LINEAR LIGHT FIXTURE - LETTER INDICATES FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	CIRCULAR LIGHT FIXTURE - FIRST LETTER INDICATES FIXTURE TYPE. "EB" INDICATES EMERGENCY LIGHTING FUNCTION WITH BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	INDICATES LIGHTING FIXTURE TO BE USED AS A NIGHTLIGHT. FIXTURE SHALL BE CONNECTED UNSWITCHED TO THE LOCAL LIGHTING CIRCUIT OR DEDICATED EGRESS LIGHTING CIRCUIT.
	UNIVERSAL MOUNT EMERGENCY EXIT FIXTURE (SHADING INDICATES FACES). ARROW INDICATES DIRECTIONAL ARROWS REQUIRED. MOUNT TO CEILING AT LOCATION INDICATED. MOUNT TO WALL IF CEILING IS HIGHER THAN 12'-0". PROVIDE WIRE GUARD COVER ANCHORED TO WALL. CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
	EMERGENCY EGRESS LIGHTING UNIT WITH 90 MINUTE BATTERY POWERED BACKUP AND DUAL LED HEADS. MOUNT 7'6" AFF UNLESS NOTED OTHERWISE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. PROVIDE WIRE GUARD COVER ANCHORED TO WALL.
	WALL MOUNTED EXTERIOR LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. MOUNT 12" AFF UNLESS NOTED OTHERWISE.
	EXTERIOR EMERGENCY EGRESS LIGHTING UNIT WITH 90 MINUTE BATTERY POWERED BACKUP. MOUNT CENTERED ABOVE DOOR UNLESS NOTED OTHERWISE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	SURFACE MOUNTED PANELBOARD
	JUNCTION BOX SIZED PER N.E.C. REQUIREMENTS. "WP" INDICATES WEATHERPROOF.
	WIRING AND RACEWAY CONCEALED IN WALLS AND/OR ABOVE CEILING
	SWITCH LEG WIRING AND RACEWAY CONCEALED IN WALLS AND/OR ABOVE CEILING
	WIRING AND RACEWAY CONCEALED IN/OR UNDER FLOOR OR UNDERGROUND
	INDICATES CONDUIT TURNED DOWN TO FLOOR BELOW
	INDICATES CONDUIT TURNED UP TO FLOOR ABOVE
	CIRCUIT HOMERUN WITH PANEL DESIGNATION AND CIRCUIT NUMBER.
	120, 208, 277, OR 480 VOLT MOTOR AS NOTED ON PLANS
	HEAVY DUTY LOCKABLE DISCONNECT SWITCH - FUSED OR NON-FUSED AS INDICATED - BY E.C. VOLTAGE / POLES / AMPERAGE / NEMA RATING / FUSE CONDITION. FUSE CONDITION AS FOLLOWS: NF-(NON-FUSED), FPH-(FUSE PER EQUIPMENT NAMEPLATE), 2000A-F FUSED WITH XXX AMP FUSES. FURNISH WITH GROUND BAR. FURNISH WITH SOLID NEUTRAL WHEN A NEUTRAL CONDUCTOR IS INCLUDED IN THE CIRCUIT OR FEEDER.
	COMBINATION STARTER AND FUSED DISCONNECT SWITCH - BY E.C. UNLESS NOTED OTHERWISE
	SINGLE POLE SWITCH - 20A - 120/277V - MOUNT 44" A.F.F. "3" INDICATES 3-WAY SWITCHING, "D" INDICATES DIMMING FUNCTION, "OS" INDICATES OCCUPANCY SENSOR FUNCTION.
	2-POLE OR 3-POLE MANUAL MOTOR STARTER. PROVIDE WITH OVERLOAD PROTECTION.
	STANDARD 20A OUTLET - NEMA 5-20R DUPLEX. MOUNT 16" A.F.F. UNLESS NOTED OTHERWISE. "G" DENOTES GFCI NON-FEED THRU TYPE, "EM" DENOTES GFCI OUTLET FOR ELECTRICAL WATER COOLER - COORDINATE LOCATION WITH PLUMBING CONTRACTOR. "WP" DENOTES WEATHERPROOF IN USE NEMA 5-20R DUPLEX, "ACT" DENOTES MOUNTED ABOVE COUNTER TOP OR BACKSPLASH, "TR" DENOTES TAMPER RESISTANT.
	GROUNDING FOR SERVICE OR SEPARATELY DERIVED SYSTEM PER N.E.C.
	INDICATES CONDUIT STUBBED OUT INTO SPACE - PROVIDE CONDUIT BUSHING
	DATA OUTLET BOX WITH MODULAR COVER PLATE AND 1" CONDUIT TO DATA SERVICE ENTRANCE BOARD. PROVIDE BUSHING ON OPEN END AND (2)cat 5e CABLES WITH 5' COIL AT EACH END.

LIGHTING FIXTURE SCHEDULE - VASS LAKEVIEW

MARK	MANUFACTURER (OR EQUAL)	MODEL NUMBER	LAMPS		FIXTURE WATTS	VOLTAGE	MOUNTING	REMARKS	
			QTY	TYPE					
B3	LITHONIA	2GTL4 30L A19 E21 LP840 BAA	1	3,000 LUMEN, 4000K LED	23.3	23.3	120	SURFACE	2x4 LED GENERAL PURPOSE TROFFER FIXTURE WITH 0.156" THICK ACRYLIC PRISMATIC LENS.
EM	LITHONIA	ELM6L UVOLT LTP SDRT	2	LED 1100 LUMEN/10.6W LAMPS	21.2	3.7	120VOLT	UNIVERSAL MOUNT	LED EMERGENCY EGRESS FIXTURE WHITE HOUSING WITH DUAL LED LIGHTING HEADS, SELF-DIAGNOSTICS. MOUNT 7'6" AFF. CONNECT TO UNSWITCHED CONDUCTOR ON THE LOCAL LIGHTING CIRCUIT. INSTALL SALVAGED WIRE GUARD OVER FIXTURES IN GYM. NOTE 2.
EX2	LITHONIA	LHQM LED R SD BAA	2	LED	2	2	120/277	UNIVERSAL MOUNT	LED EMERGENCY EXIT WITH DUAL EMERGENCY LIGHT HEADS. WHITE PLASTIC WITH RED LETTERS. NUMBER OF FACES AND DIRECTIONAL ARROWS AS REQUIRED. MOUNT ABOVE DOOR FRAME OR AS INDICATED. CONNECT TO UNSWITCHED CONDUCTOR ON THE LOCAL LIGHTING CIRCUIT. INSTALL SALVAGED WIRE GUARD OVER FIXTURES IN GYM. NOTE 2.

NOTES:
 1 OR EQUAL FIXTURES BY COOPER, COLUMBIA, GE, OR HUBBELL.
 2 BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 90 MINUTES BACKUP OPERATION ON FAILURE OF NORMAL.
 3 PROVIDE ACCESSORIES AS REQUIRED FOR MOUNTING CONDITIONS

List of Drawings Vass-Lakeview

SHEET	DESCRIPTION
E0.1	LEGEND, NOTES SCHEDULES
E1.0	DEMOLITION PLAN
E1.1	RENOVATION PLAN
E6.1	PANEL SCHEDULES AND RISER DIAGRAM

BID SET

MOORE COUNTY SCHOOLS
VASS-LAKEVIEW GYMNASIUM RENOVATION
 141 JAMES ST VASS, NORTH CAROLINA 28394

No.	Date	Description

ISSUE DATE: 11/22/23

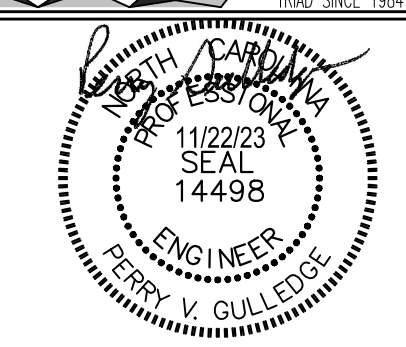
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ELECTRICAL LEGEND,
 NOTES, SCHEDULES

E0.1

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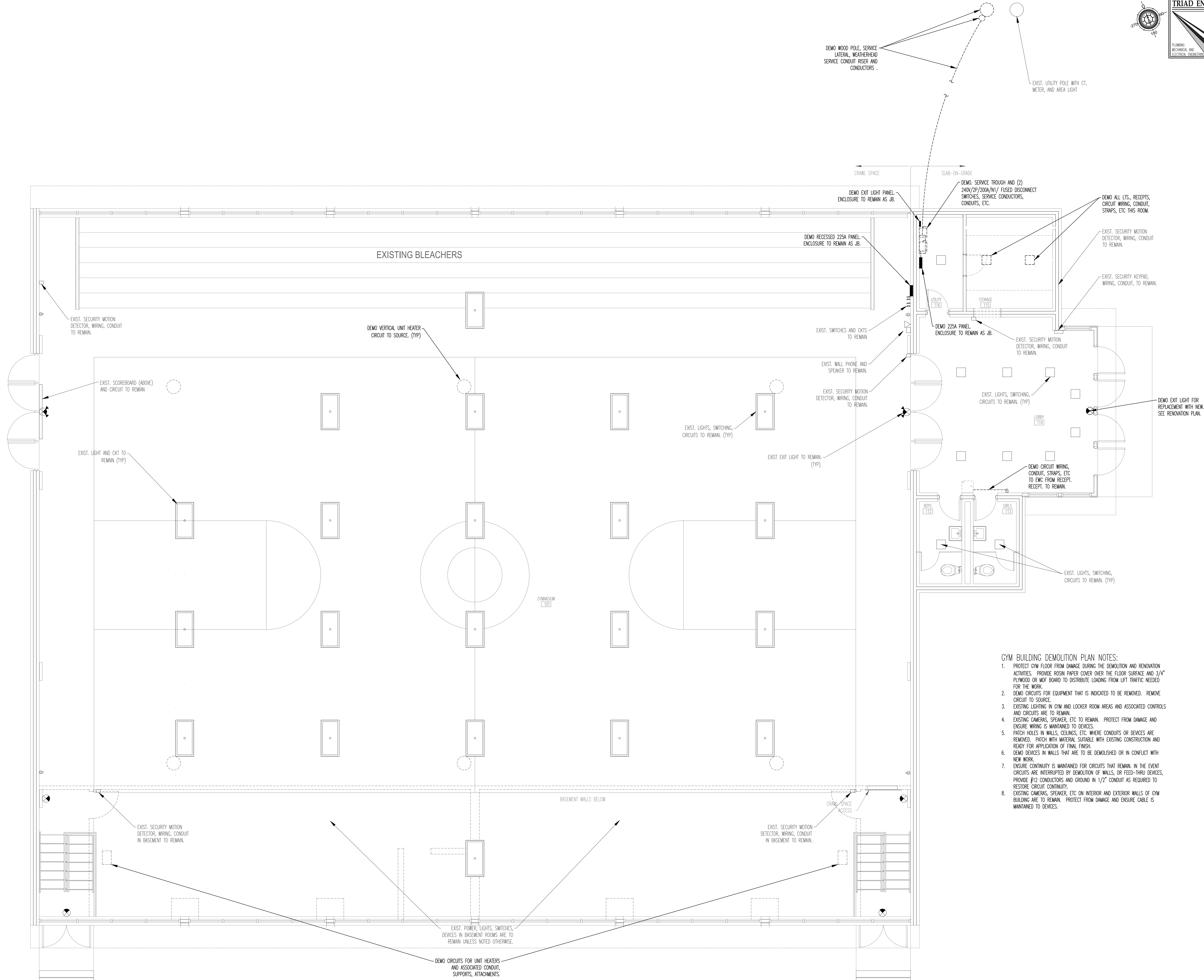


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- GYM BUILDING DEMOLITION PLAN NOTES:**
1. PROTECT GYM FLOOR FROM DAMAGE DURING THE DEMOLITION AND RENOVATION ACTIVITIES. PROVIDE ROBIN PAPER COVER OVER THE FLOOR SURFACE AND 3/4" PLYWOOD OR MDF BOARD TO DISTRIBUTE LOADING FROM LIFT TRAFFIC NEEDED FOR THE WORK.
 2. DEMO CIRCUITS FOR EQUIPMENT THAT IS INDICATED TO BE REMOVED. REMOVE CIRCUIT TO SOURCE.
 3. EXISTING LIGHTING IN GYM AND LOCKER ROOM AREAS AND ASSOCIATED CONTROLS AND CIRCUITS ARE TO REMAIN.
 4. EXISTING CAMERAS, SPEAKER, ETC TO REMAIN. PROTECT FROM DAMAGE AND ENSURE WIRING IS MAINTAINED TO DEVICES.
 5. PATCH HOLES IN WALLS, CEILINGS, ETC. WHERE CONDUITS OR DEVICES ARE REMOVED. PATCH WITH MATERIAL SUITABLE WITH EXISTING CONSTRUCTION AND READY FOR APPLICATION OF FINAL FINISH.
 6. DEMO DEVICES IN WALLS THAT ARE TO BE DEMOLISHED OR IN CONFLICT WITH NEW WORK.
 7. ENSURE CONTINUITY IS MAINTAINED FOR CIRCUITS THAT REMAIN. IN THE EVENT CIRCUITS ARE INTERRUPTED BY DEMOLITION OF WALLS, OR FEED-THRU DEVICES, PROVIDE #12 CONDUCTORS AND GROUND IN 1/2" CONDUIT AS REQUIRED TO RESTORE CIRCUIT CONTINUITY.
 8. EXISTING CAMERAS, SPEAKER, ETC ON INTERIOR AND EXTERIOR WALLS OF GYM BUILDING ARE TO REMAIN. PROTECT FROM DAMAGE AND ENSURE CABLE IS MAINTAINED TO DEVICES.

ELECTRICAL DEMOLITION PLAN
 1
 E1.0 SCALE: 1/4" = 1'-0"

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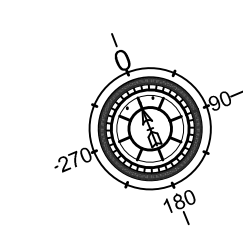
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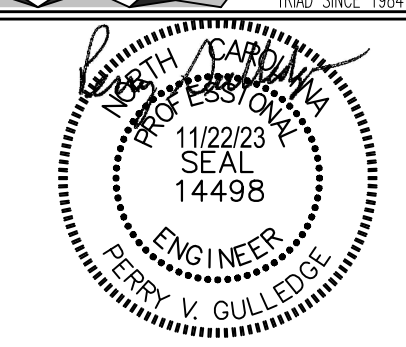
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ELECTRICAL DEMOLITION PLAN

E1.0



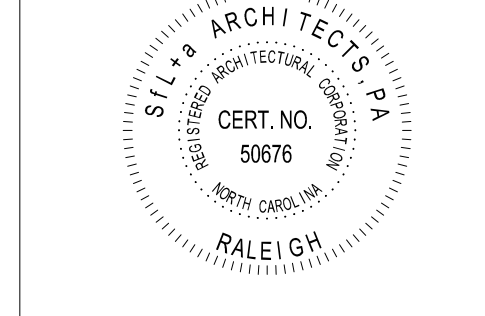
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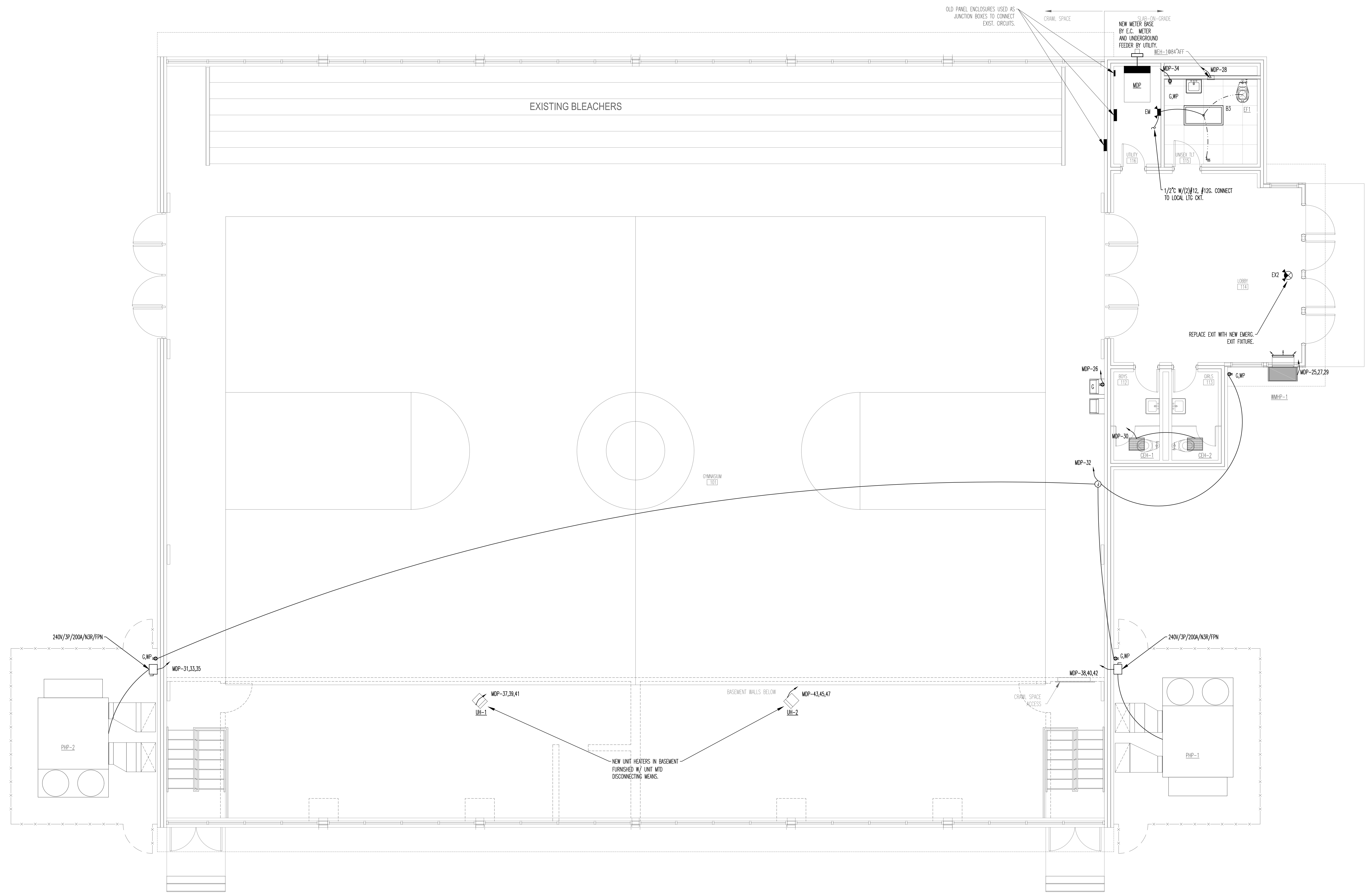
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RENOVATION
 ELECTRICAL
 POWER AND LIGHTING PLAN
 1
 E1.1 SCALE: 1/4" = 1'-0"

No.	Date	Description

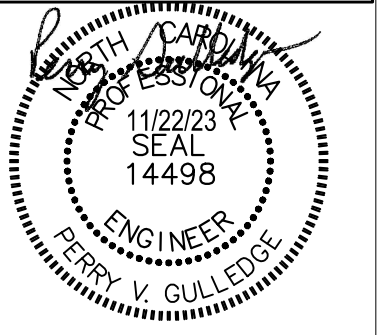
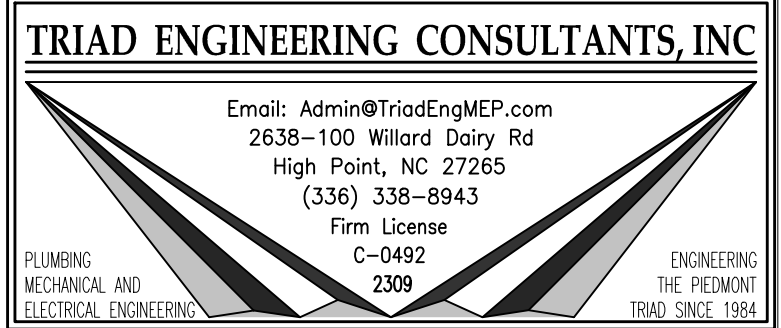
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ELECTRICAL RENOVATION PLAN

R:\02206.000 MCS Gymnasium Modernizations\630 Models\02206.000 Cameron ES Gym TEMP V.C. WORK\cvt 9/9/2022 10:44:49 AM

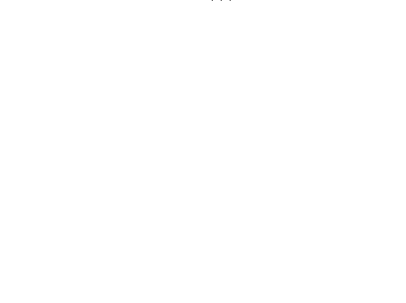
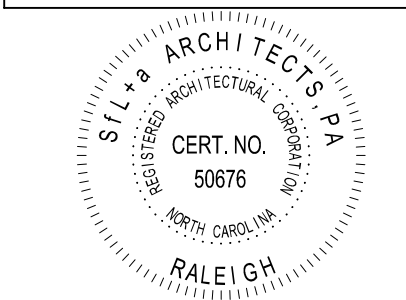
NEC 220 SERVICE DEMAND LOAD CALCULATION
OPTIONAL METHOD 220.86 FOR SCHOOLS
BUILDING DATA: VASS LAKEVIEW E.S.
BUILDING AREA (SF): 10000 SF
TOTAL CONNECTED LOAD: 151 KVA
RESULTING BLDG VA/SF: 15.1 VA/SF
SERVICE DEMAND LOAD CALCULATION:
LOAD PORTION VA/SF DEMAND FACTOR VA/SF
FIRST 3 VA/SF: 3.0 100% 3.0
OVER 3 THRU 20 VA/SF: 12.1 75% 9.08
OVER 20 VA/SF: 0.0 25% 0.0
RESULTING DEMAND LOAD/SF: 12.1 VA/SF
CALCULATED BUILDING DEMAND (VA): 120,750
TOTAL: 120.8 KVA
SERVICE CHARACTERISTICS:
208 VOLTS
3 PHASE
BUILDING SERVICE DEMAND: 335.2 AMPS

LOCATION: UTILITY: MDP PROJECT: VASS LAKEVIEW ES
MANUFAC: SLD OR EQUAL BY EATON, GE OR SIEMENS FED FROM: SERVICE SE LABEL:
MODEL: NO WITH BOLT ON BREAKERS
MFG: WALL SURFACE NEMA 1
VOLTAGE: 208 / 120 PH W: 3 4
SCRR RATINGS: FULLY RATED
13,000 AIC SYMM (MIN)
Table with columns: VA, #, LOAD, Ph, N, G, C, BRK, A, B, C, BRK, Ph, N, G, C, LOAD, #, VA. Rows include various load types like LTG, RECEPT, WMHP-1, etc.
Summary rows at bottom:
240 SUBTOTAL AMPS Ph A MAIN BREAKER - 400 AMPS SUBTOTAL AMPS Ph A 176
240 SUBTOTAL AMPS Ph B MAIN LUGS - 400 AMPS MINIMUM SUBTOTAL AMPS Ph B 188
240 SUBTOTAL AMPS Ph C BUS AMPACITY = 400 AMPS MINIMUM SUBTOTAL AMPS Ph C 178

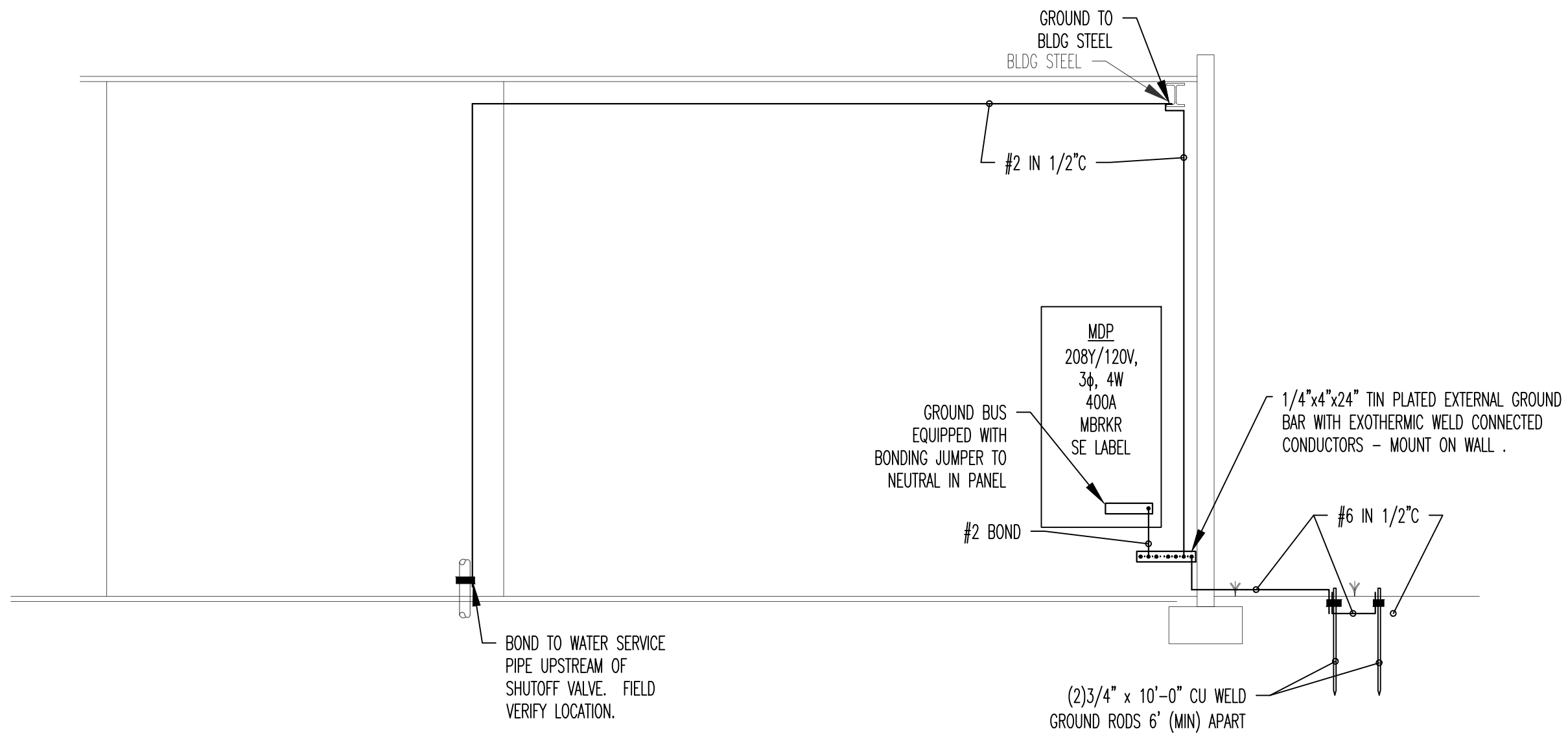


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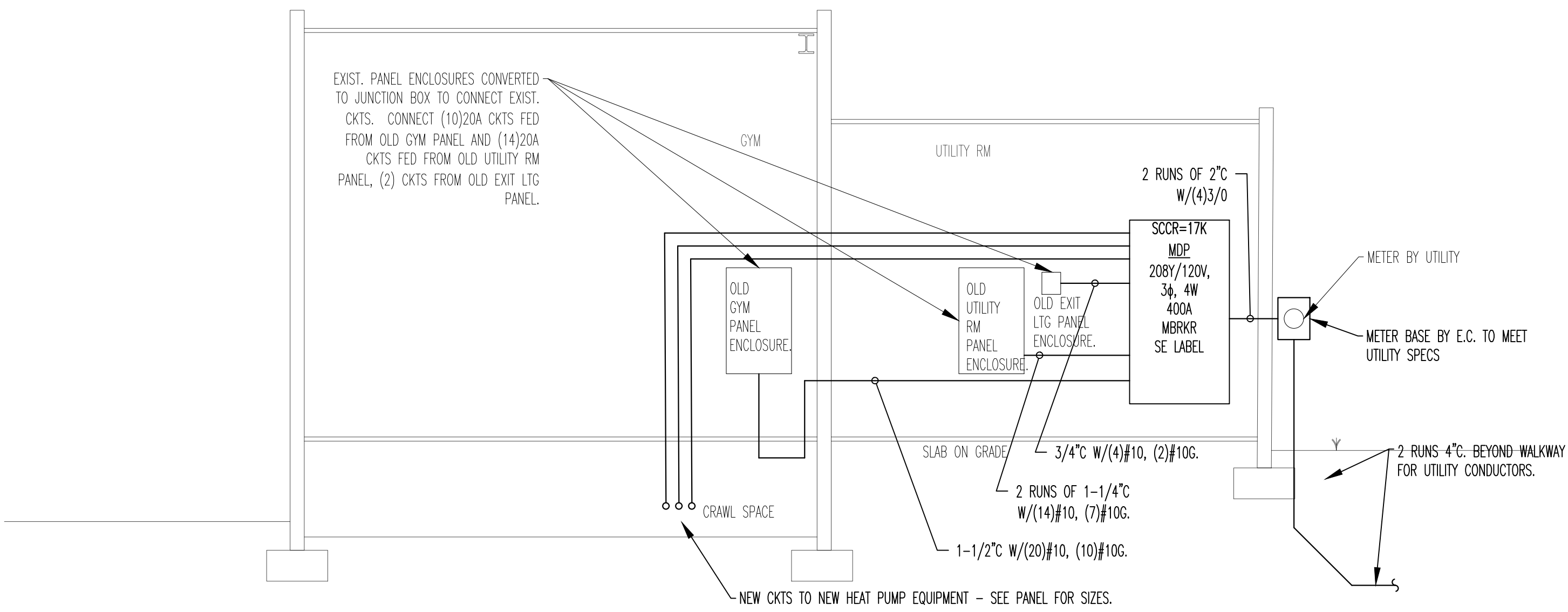
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ELECTRICAL SERVICE GROUNDING & BONDING DETAIL
E6.1 SCALE: NONE



ELECTRICAL SERVICE RISER DIAGRAM
E6.1 SCALE: NONE

SERVICE RISER DIAGRAM NOTES:
1. ALL CONDUCTORS SHALL BE COPPER.
2. SHORT CIRCUIT VALUES ARE BASED ON 100 KVA TRANSFORMER WITH IMPEDANCE VALUE OF 2.0% LOCATED 100' (CONDUCTOR LENGTH) FROM SERVICE GEAR. NOTIFY ENGINEER IF CONDITIONS DIFFER.
3. PROVIDE ARC-FLASH HAZARD WARNING SIGNAGE ON EACH PANEL.
4. FURNISH TVSS SURGE SUPPRESSOR FOR SERVICE PANEL. TVSS PROTECTION UNIT SHALL BE PARALLEL STYLE RATED FOR 120V/208Y, 3A, 4W, 200KA PER PHASE, WITH PROTECTION MODES OF L-N, L-G, L-L, AND N-G. THE UNIT SHALL BE LISTED TO UL 1449 AND UL 1283; SHALL HAVE EM/RFI FILTERING FOR 60hz MAXIMUM FROM 100kHz TO 100MHz; SHALL BE HOUSED IN A NEMA 1 ENCLOSURE; SHALL MAINTAIN A LINE FREQUENCY BETWEEN 47-63 HERTZ, LINE VOLTAGE +/- 15% NOMINAL; SHALL HAVE A TEMPERATURE RATING BETWEEN -40 TO +40 DEGREES C, AN AUDIBLE NOISE LEVEL THAT IS LESS THAN 65dba, AND THE RESPONSE TIME SHALL BE LESS THAN 0.5ms. EQUAL TO LEA INTERNATIONAL MODEL LEA PLUS 200 SERIES MODEL B39-00-2003. MOUNT ADJACENT TO MAIN PANEL WITH MINIMAL CONDUCTOR LENGTH BETWEEN BREAKER AND SUPPRESSOR (5' MAXIMUM LENGTH).
5. IDENTIFY EACH PANEL WITH COVER USING ENGRAVED NAMEPLATE SCREW ATTACHED TO PANEL. IDENTIFY EACH BREAKER FOR PANELS OR SWITCHBOARDS WITHOUT A COVER.
6. PROVIDE A COMPLETE MACHINE PRINTED CIRCUIT DIRECTORY FOR EACH PANEL WITH A DOOR IDENTIFYING EACH CIRCUIT. FOR PANELS OR SWITCHBOARDS WITHOUT DOOR, IDENTIFY EACH BREAKER OR SWITCH WITH LAMINATED NAMEPLATE SCREW ATTACHED TO COVER. IDENTIFY LOADS IN DIRECTORIES USING ROOM NAMES OR NUMBERS. UPDATE DIRECTORY IF NAMES OR NUMBERS CHANGE PRIOR TO PROJECT CLOSEOUT.

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PANEL SCHEDULES, RISER DIAGRAMS