

CD ISSUE
01-02-2014

LOCATION MAP: MPLS. VAMC

APPROVED BY:

DATE _____

DIRECTOR, FACILITIES ENGINEERING STEVE CHALLEEN

CHIEF, PROJECTS SECTION CATHERINE JOYCE

MAINTENANCE SUPERVISOR TED STEIDL

SAFETY MANAGER PAM RUSSELL

VA POLICE

PATIENT SAFETY

INFECTION CONTROL

UNION 1969

UNION 3669

SHEET NAMING CONVENTION

DRAWING SET
↓
12##

SHEET
↓
XX

BUILDING NUMBER
↓
E###

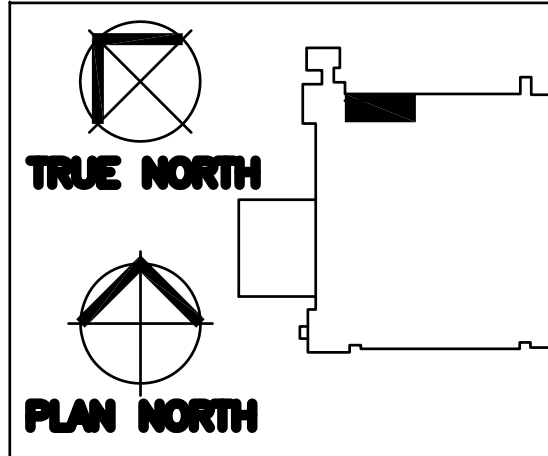
12##-XX-E###

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GENERAL
NOTES:

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE PLANS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS; ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE GENERAL CONTRACTOR'S RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE SUBCONTRACTOR. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED.



	Drawing Title
	COVER SHEET
Drawing Scale AS NOTED	Approved:
Plot Scale $12'' = 1' - 0''$	Approved:

Drawing Title	
	COVER SHEET
Approved:	
Approved:	

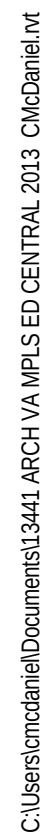
Project Title		
VA MINNEAPOLIS ED RENOVATION 13441		
Location ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	Checked	Drawn
01/02/2014	PR	EB/TD

Project No.	618-14-104
Building Number	70
DRAWING NO.	1272-70-G101
Dwg.	1 of 73

FULLY SPRINKLERED

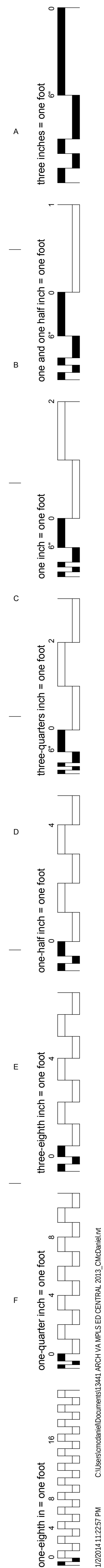
Office of
Facilities
Management





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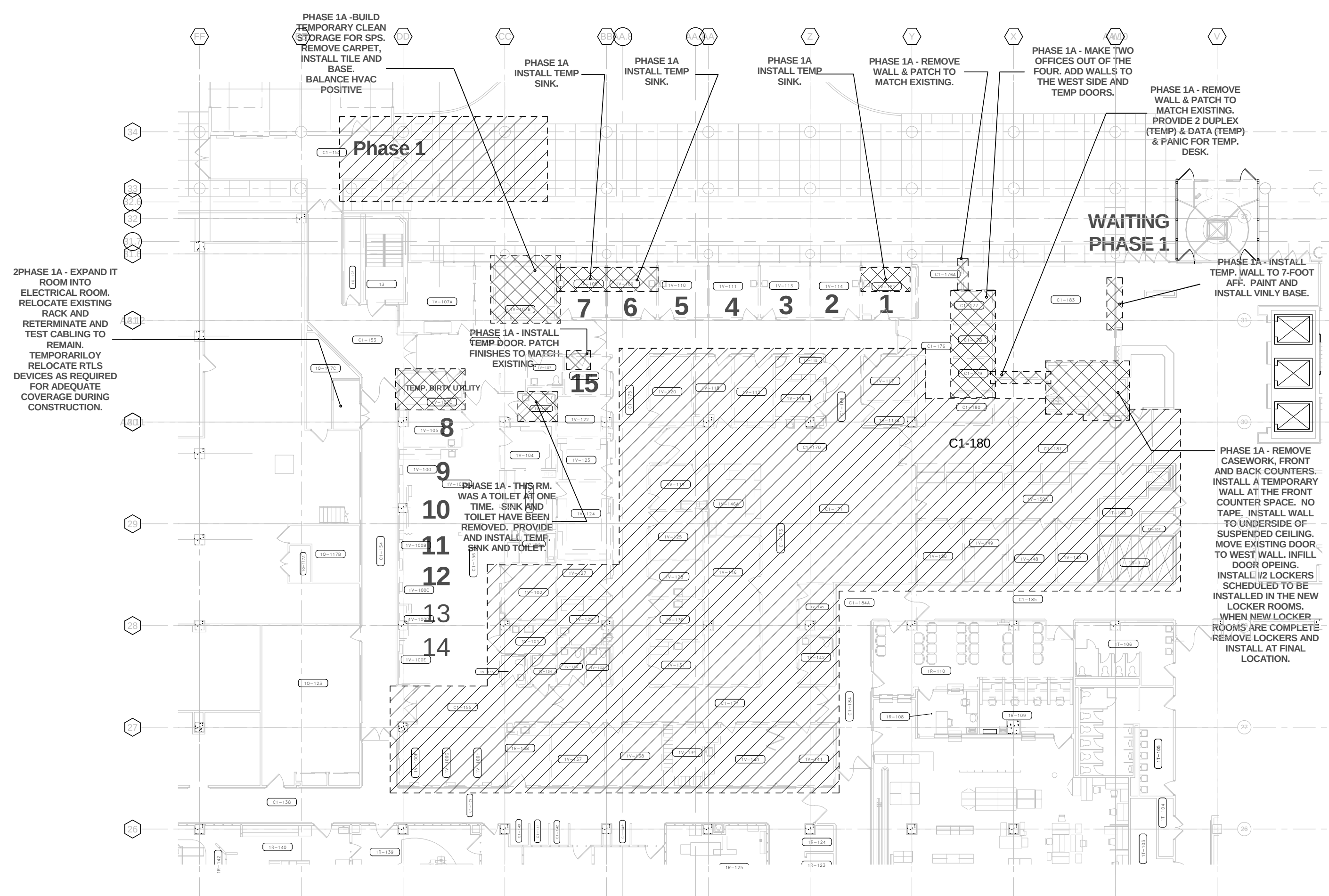
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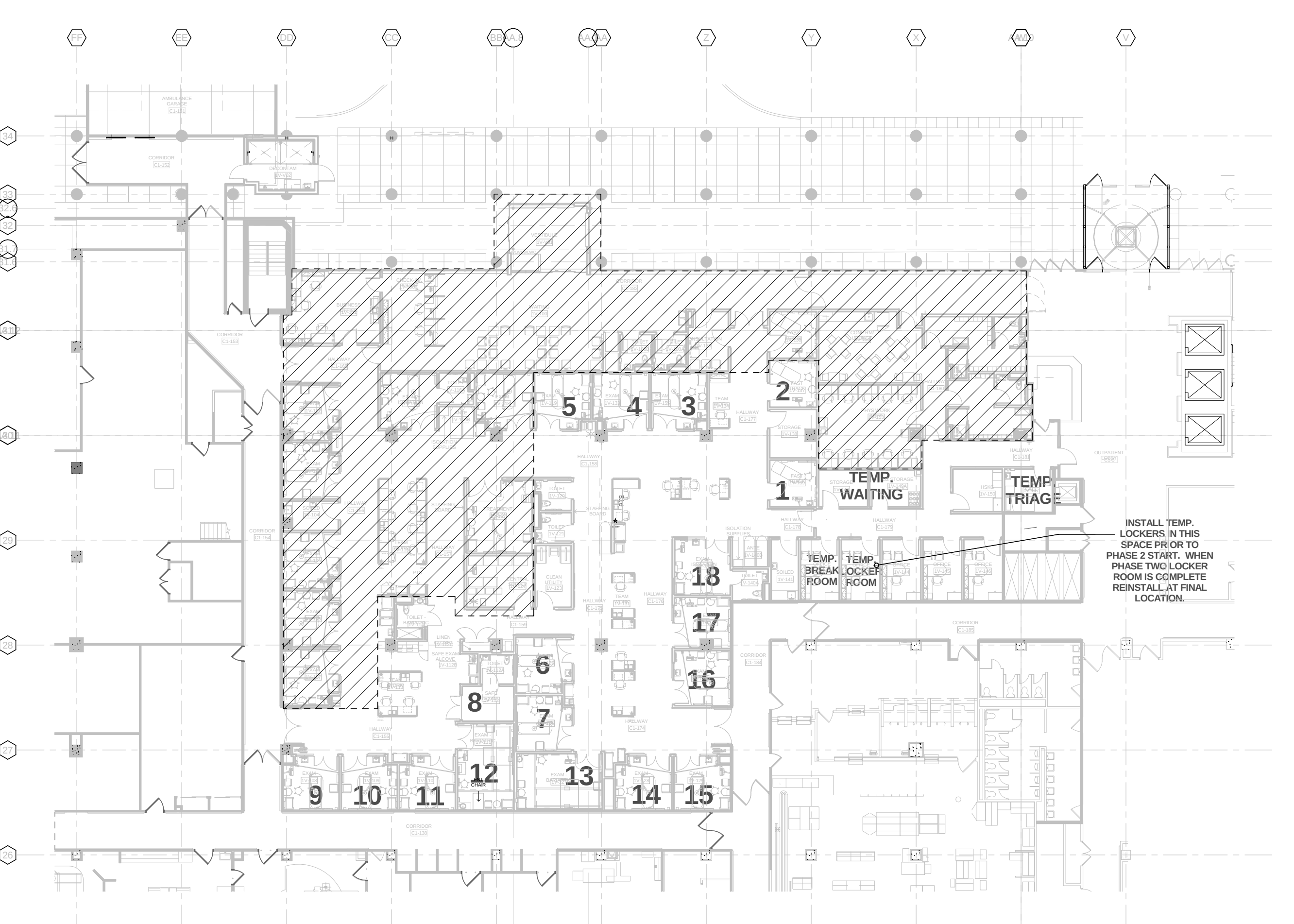
ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITION	CO	CARBON MONOXIDE	FE	FIRE EXTINGUISHER	INT	INTERIOR	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED	SAMP	SAMPLE	VAC	VACUUM
A/C UNIT	AIR CONDITIONING UNIT	CO ₂	CARBON DIOXIDE	FEC	FIRE EXTINGUISHER CABINET	INTL	INTERNATIONAL	OFD	OVERFLOW DRAIN	SAN	SANITARY	VAR	VARIES
A/E	ARCHITECT/ENGINEER	COL	COLUMN	FF	FINISH FACE	OFF	OFFICE	OFF	OFFICE	SAT	SUSPENDED ACOUSTICAL TILE	VEH	VEHICLE
AAMA	AMERICAN ARCHITECTURAL MANUFACTURERS ASSN	COM	COMMON	FF EL	FINISH FLOOR ELEVATION	OF/OI	OWNER FURNISHED/OWNER INSTALLED	OH	OVERHANG	SATC	SUSPENDED ACOUSTICAL TILE CEILING	VENT	VENTILATION
AB	ANCHOR BOLT	COMB	COMBINATION, COMBINED	FFES	FURNITURE, FIXTURE, AND EQUIPMENT	IWH	INSTANTANEOUS WATER HEATER	OH	OVERHEAD	SB	SPLASH BLOCK	VERT	VERTICAL
ABC	AGGREGATE BASE COURSE	COM	COMMUNICATION	FGS	JOINT GASKET SEAL	J	JUNCTION BOX	OH DR	OPPOSITE (COILING) DOOR	SC	SCUPPER	VEST	VESTIBULE
ACI	AMERICAN CONCRETE INSTITUTE	COMP	COMPONENT	FHC	FIRE HOSE CABINET	JAN	JANITOR	OPH	OPPOSITE HAND	SBSTR	SUBSTRATE	VIC	VICINITY
ACS DR	ACCESS DOOR	CONC	CONCRETE	FHP	FULL HEIGHT PARTITION	KD	KILN DRIED OR KNOCKED DOWN	OPNG	OPENING	SC	SHADING COEFFICIENT OR SOLID CORE	VID	VIDEO
ACS FLR	ACCESS FLOOR	CONC FLR	CONCRETE FLOOR	FIG	FIGURE	KIT	KITCHEN	OPP	OPPOSITE	SC	SHARPS CONTAINER	VIF	VERIFY IN FIELD
ACS PNL	ACCESS PANEL	COND	CONDENSER OR CONDITION	FIL	FILLET	KO	KNOCKOUT	OPR	OPERABLE	SCH	SCHOOL	VNR	VENEER
ACST	ACOUSTIC	CONF	CONFERENCE	FIN	FINISH	KPL	KICKPLATE	OPT	OPTIONAL	SCHED	SCHEDULE	VOC	VOLATILE ORGANIC COMPOUND
ACT	ACOUSTICAL CEILING TILE	CONN	CONNECT	FIN FLR	FINISH FLOOR	L	LABORATORY	OR	OPERATING ROOM OR OUTSIDE RADIUS	SCHM	SCHEMATIC	VOL	VOLUME
AD	AREA DRAIN	CONSTR	CONSTRUCTION	FM GR	FLOOR GRADE	LAB	LABORATORY	ORD	ORDNANCE OR OVERFLOW ROOF DRAIN	SCUP	SCUPPER	VR	VAPOR RETARDER
ADA	AMERICANS WITH DISABILITIES ACT	CONT	CONTINUE	FIN WD	FINISH WOOD	LAD	LADDER	ORG	ORGANIC	SCRN	SCREEN	VTR	VENT THROUGH ROOF
ADC	AUTOMATIC DOOR CLOSER	CONTR	CONTRACTOR	FIXT	FIXTURE	LAM	LAMINATE	ORIG	ORIGINAL	SCT	STRUCTURAL CLAY TILE	W	WIDE OR WEST
ADDL	ADDITIONAL	COORD	COORDINATE	FL	FLOORLINE	LAM GL	LAMINATED GLASS	ORN	ORNAMENTAL	SCWD	SOLID CORE WOOD DOOR	W	VINYL COATED WALL COVERING
ADDN	ADDITION	CORR	CORRIDOR	FLASH	FLASHING	LAU	LAUNDRY	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	SD	SMOKE DETECTOR	W/	WITH
ADH	ADHESIVE	CPM	CRITICAL PATH METHOD	FLDG	FOLDING	LAV	LAVATORY	OUT	OUTLET	SDG	SIDING	W/O	WITHOUT
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE	CPRS	COMPRESSIBLE	FLX	FLEXIBLE	LBR	LUMBER	OZ	OUNCE	SDSP	SOAP DISPENSER	WBL	WOOD BLOCKING
ADMIN	ADMINISTRATION	OPT	CARPET MODULE TILE	FLG	FLOORING	LBS	POUND	PAR	PARALLEL OR PARAPET	SECT	SECTION	WC	WATER CLOSET
AFF	ABOVE FINISHED FLOOR	CR	CRASH RAIL	FLR	FLOOR	LD BRG	LOAD-BEARING	PARA	PARAGRAPH	SEG	SEGMENT	WD	WOOD
AFG	ABOVE FINISHED GRADE	CRS	COLD ROLLED STEEL	FLR FIN	FLOOR FINISH	LDR	LEADER	PART	PARTIAL	SEL	SELECT	WDW	WINDOW
AFS	ABOVE FINISHED SLAB	CRSI	CONCRETE REINFORCING STEEL INSTITUTE	FLR SK	FLOOR SINK	LED	LIGHT EMITTING DIODE	PAT	PATTERN	SEPAR	SEPARATE	WF	WIDE FLANGE
AGC	ASSOCIATED GENERAL CONTRACTORS	CSB	CONCRETE SPLASH BLOCK	FLUOR	FLUORESCENT	LF	LINEAR FEET (FOOT)	PB	PUSHBUTTON	SF	SQUARE FOOT (FEET)	WFR	WOOD FRAME
AGGR	AGGREGATE	CSG	CASING	FLUOR FIX	FLUORESCENT FIXTURE	LIE	LIBRARY	PBD	PARTICLEBOARD	SFTWD	SOFTWOOD	WFS	WOOD FURRING STRIPS
AHJ	AUTHORITY HAVING JURISDICTION	CONC	CONSTRUCTION SPECIFICATIONS INSTITUTE	FM	FACTORY MUTUAL	LIN	LINEAR	PHR	PIECE POLYCARBONATE OR PORTLAND CEMENT	SLD	SLIDING GLASS DOOR	WH	WATER HEATER
AHR	ANCHOR	CSK	COUNTER SUNK	FM-G	FACTORY MUTUAL GLOBAL	LIQ	LIQUID	PCA	PORTLAND CEMENT ASSOCIATION	SGL	SINGLE	WHSE	WAREHOUSE
AHU	AIR HANDLING UNIT	CSMT	CASEMENT	FO	FINISHED OPENING	LKR	LOCKER	PCC	PRECAST CONCRETE	SHR	SHOWER	WP	WATERPROOFING
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CSWK	CASEWORK	FOC	FACE OF CONCRETE OR FACE OF CURB	LKR RM	LOCKER ROOM	PCCP	CONCRETE PAVEMENT	SHR HD	SHOWER HEAD	WPM	WATERPROOF MEMBRANE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CT	CERAMIC TILE	FOF	FACE OF FINISH	LL	LEAD LINED	PCD	PAPER CUP DISPENSER	SHRD	SHOWER DRAIN	WR	WEATHER RESISTANT
ALT	ALTERNATE	CTG	COATING	FOM	FACE OF MASONRY	LMC	LINEAR METAL CEILING	PCF	POUNDS PER CUBIC FOOT	SHT	SHEET	WS	WEATHERSTRIP
ALT NO	ALTERNATE NUMBER	CTR	CENTER	FOS	FACE OF SLAB OR FACE OF STUD	LMST	LIMESTONE	PCP	PORTLAND CEMENT PLASTER	SHTG	SHIELDING	WSCOT	WAINSCOT
ALUM	ALUMINUM	CTRL	CONTROL	FOUNT	FOUNTAIN	LRG	LARGE	PED	PEDESTAL	SHV	SHED	WT	WEIGHT
AMT	AMOUNT	CTV	CABLE TELEVISION	FOW	FACE OF WALL	LRV	LOUVERED ROOF VENT	PEN	PENETRATE	SIM	SIMILAR	X BRACE	CROSS BRACE
ANOD	ANODIZE	CU FT	CUBIC FEET	FP	FIRE PROTECTION OR FIREPROOF	LT	LIGHT	PEND	PENDANT	SJ	SCORED JOINT	XPS	EXTRUDED POLYSTYRENE BOARD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CU IN	CUBIC INCH	FR	FIRE RATING, FIRE RESISTANT, OR FRAME	LT GA	LIGHT GAGE	PERF	PERFORATED	SJI	STEEL JOIST INSTITUTE	YD	YARD
ANT	ANTENNA	CU YD	CUBIC YARD	FR SNK	FLUSHING RIM SINK	LT WT	LIGHT WEIGHT	PERIM	PERIMETER	SK	SKETCH		
AP	ACCESS PANEL	CURT	CURTAIN	FREQ	FREQUENCY	LTG	LIGHTING	PERP	PERPENDICULAR	SKLT	SKYLIGHT		
APA	AMERICAN PLYWOOD ASSOCIATION	FRMG	FRAMING	FRM	FRAMING	LTNG	LIGHTNING	PERP	PERPENDICULAR	SLD WDW	SLIDING WINDOW		
APPD	APPROVED	CYL	CYLINDER	FRP	FIBERGLASS REINFORCED PLASTIC	LRG	LARGE	PHOTO	PHOTOGRAPH	SLDG	SLIDING		
APPROX	APPROXIMATE	CYL L	CYLINDER LOCK	FRZ	FREEZER	LVD	LOUVERED	PKG	PACKAGE	SLNT	SEALANT		
AR	AS REQUIRED	D	DEPTH OR PENNY (NAIL)	FS	FEDERAL SPECIFICATION	LVR	LOUVER	PL	PROPERTY LINE	SM	SHEET METAL		
ARCH	ARCHITECT	DAT	DATUM	FSTNR	FASTENER	LWC	LIGHTWEIGHT CONCRETE	PL GL	PLATE GLASS	SMK	SMOKE		
ASB	ASBESTOS	DBL	DOUBLE	FSTOP	FIRE STOPPING	LWC	LIGHTWEIGHT INSULATING CONCRETE	PLM	PLASTIC LAMINATE	SND INS	SOUND INSULATION		
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	DBL GLZ	DOUBLE GLAZE	FT	FEET OR FOOT	LYR	LAYER	PLAS	PLASTER OR PLASTIC	SPEC	SPECIFICATION		
ASKLR	AUTOMATIC SPRINKLER	DEG	DEGREE	FTG	FOOTING	MACH	MACHINE	PLBK	PLYWOOD	SPKLR	SPEAKER		
ASPH	ASPHALT	DEL	DELETE	FTR	FIN TUBE RADIATION	MAINT	MAINTENANCE	PLYWD	PLYWOOD	SPLY	SPLY		
ASSN	ASSOCIATION	DEM	DEMOLITION	FURG	FURRING	MAN	MANUAL	PMTL	PAINTED METAL	SPR	SPLY		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DEPT	DEPARTMENT	FURN	FURNISH OR FURNITURE	MATL	MATERIAL	PNEU	PNEUMATIC	ST	STAIRS OR STREET		
AT	ACOUSTICAL CEILING TILE	DET	DETAIL	FUT	FUTURE	MATV	MASTER ANTENNA TELEVISION SYSTEM	PNL	PANEL	STC	SOUND TRANSMISSION CLASS		
ATCH	ATTACHMENT	DIA	DIAMETER	FUT	FUTURE	MAX	MAXIMUM	POST	POST OFFICE, PURCHASE ORDER	STD	STANDARD		
ATM	AUTOMATIC TELLER MACHINE	DIAG	DIAGONAL	GAL	GAGE OR GYPSUM ASSOCIATION	MBD	MARKERBOARD	PPC	PERSONAL PROTECTION CONTAINER	STF	STIFFENER		
AUTO	AUTOMATIC	DIF	DIFFERENCE OR DIFFUSER	GALV	GALVANIC OR GALVANIZED	MCB	METAL CORNER BEAD	PR	PAIR	STL JST	STEEL JOIST		
AUX	AUXILIARY	DISP	DISPENSER	GALV STL	GALVANIZED STEEL	MD	DECK	PRCST	PRECAST	STL LNTL	STEEL LINTEL		
AV	AUDIO VISUAL	DIM	DIMENSION	GB	GRAB BAR	ME	MECHANICAL ENGINEER	PREFAB	PREFABRICATE	STL PL	STEEL PLATE		
AVG	AVERAGE	DIR	DIRECTION	GC	GENERAL CONTRACTOR	MEAS	MEASURE	PREFIN	PREFINISH	STL RF DK	STEEL ROOF DECK		
AW	ACID WASTE	DISP	DISPENSER	GD	GUARD	MECH	MECHANICAL	PREFM	PRELIMINARY	STL TB	STEEL TUBE		
AWI	ARCHITECTURAL WOODWORKING INSTITUTE	DIST	DISTANCE	GR	GUARD RAIL	MECH RM	MECHANICAL ROOM	PREP	PREPARATION	STNLS	STEEL TRUSS		
AWPA	AMERICAN WOOD PRESERVERS' ASSOCIATION	DIV	DIVIDE OR DIVISION	GEN	GENERAL OR GENERATOR	MEK	METHYL ETHYL KETONE	PRESS	PRESSURE	STR	STRINGERS		
AWS	AMERICAN WELDING SOCIETY	DL	DEAD LOAD	GFR	GLASS-FIBER-REINFORCED CONCRETE	MEM	MEMBRANE	PREV	PREVIOUS	STRUCT	STRUCTURAL		
B PL	BASE PLATE	DOC	DOCUMENT	GFRP	GLASS-FIBER-REINFORCED GLASS	MEMO	MEMORANDUM	PRKG	PARKING	STRUCT STL	STRUCTURAL STEEL		
BAT	BATTEN	DR	DOOR, DRAIN, DRESSING ROOM, OR DRIVE	GL	GALVANIZED IRON	MEZZ	MEZZANINE	PRMLD	PREMOLDED	SUB	SUBSTITUTE		
BD	BOARD	DR CL	DOOR CLOSER	GL	GLASS	MF	MILL FINISH	PROJ	PROJECT	SURF	SURFACE		
BD FT	BOARD FEET (FOOT)	DR FR	DOOR FRAME	GL BLK	GLASS BLOCK	MFG	MANUFACTURING	PSF	POUNDS PER SQUARE FOOT	SUSP	SUSPEND		
BEV	BEVEL	DR PING	DOOR OPENING	GLU LAM	GLUED LAMINATED WOOD	MFR	MANUFACTURER	PT	PAPER TOWEL CABINET	SUSP CLG	SUSPENDED CEILING		
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION	DS	DOWNSPOUT	GR FL	GROUND FLOOR	MFR REC	MANUFACTURER'S RECOMMENDATION	PTC	PAINT, PNEUMATIC TUBE, OR PRESSURE TREATED	SW	SWITCH		
BI FLD DR	BIFOLDING DOORS	DSGN	DESIGN	GRN	GRANITE	MGT	MANAGEMENT	PTN	PARTITION	SWDR	SWING DOOR		
BITUM	BITUMINOUS	DWG	DRAWING	GRTG	GRATING	MIC	MICROPHONE	PTS	PARTITION	SYM	SYMBOL		
BKG	BACKING	E	EACH	GSB	GYPSUM SHEATHING BOARD	MID	MIDDLE	PVC	POLYVINYL CHLORIDE (PLASTIC)	SYNTH	SYNTHETIC		
BLD	BUILD	EA	EACH	GSB	GYPSUM SHEATHING BOARD	MLD STD	MILLI STANDARD	PVG	PAVING	T	TREAD		
BLDG	BUILDING	EFF	EFFICIENCY	GSU	GLAZED STRUCTURAL UNIT	MIN	MINIMUM	PWR	POWER	T&M	TIME AND MATERIALS		
BM	BEAM OR BENCHMARK	EF	EFFICIENCY	GT	GROUT	MIR	MIRROR	QA	QUALITY ASSURANCE	TBD	TACKBOARD		
BOT	BOTTOM	EF	EFFICIENCY	GUAR	GUARANTEE	MISC	MISCELLANEOUS	QC	QUALITY CONTROL	TECH	TECHNICAL		
BRCG	BRACING	EF	EFFICIENCY	GUT	GUTTER	MIT	MITER	QRY	QUARRY	TEMP	TEMPERATURE OR TEMPORARY		
BRDG	BRIDGING	EF	EFFICIENCY	GYB	GYPSUM BOARD	MKR	MARKER	QTY	QUANTITY	THRM	THERMAL		
BRDG JST	BRIDGING JOIST	EL	ELEVATION	GYP	GYPSUM	MLWK	MILLWORK	QUAD	QUADRANT	THK	THICKNESS		
BRG	BEARING	ELAST	ELASTOMERIC	GYP BD	GYPSUM BOARD	mm	MILLIMETER	QUAL	QUALITY	THRES	THRESHOLD		
BRG PL	BEARING PLATE	ELEV	ELEVATOR	GYP SHTG	GYPSUM SHEATHING BOARD	MO	MASONRY OPENING	R	RADIUS OR RISER	THRU	THROUGH		
BRKT	BRACKET	EMER SHR	EMERGENCY SHOWER	H	HAZARDOUS MATERIALS	MOD	MODEL, MODIFY OR MODULE	RA	RETURN AIR	THRUOUT	THROUGHOUT		
BRZ	BRONZE	ENCL	ENCLOSURE	H	HAZARDOUS MATERIALS	MOD BIT	MODIFIED BITUMEN	RAD	RADIATION	TMFD	TEMPERED		
BSMT	BASEMENT	ENGR	ENGINEER	H	HAZARDOUS MATERIALS	MON	MONITOR	RB	REINFORCED BRICK MASONRY	TMFD GL	TEMPERED GLASS		
BTWN	BETWEEN	ENVIR	ENVIRONMENT	H	HAZARDOUS MATERIALS	HDO	HIGH DENSITY OVERLAY	RBM	RUBBER	TN	TRUE NORTH		
BUR	BUILT-UP ROOFING	EO	ELECTRICAL OUTLET	H	HAZARDOUS MATERIALS	HDR	HEADER	MR	MOISTURE RESISTANT	TO	TOP OF		
C	CATCH BASIN OR CORNER BEAD	EPA	ENVIRONMENTAL PROTECTION AGENCY	H	HAZARDOUS MATERIALS	HDW	HARDWARE	MS	MOP SINK	TO FDN	TOP OF FOUNDATION		
CBB	CEMENTITIOUS (BACKER) BOARD	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	H	HAZARDOUS MATERIALS	HDWD	HARDWOOD	MTD	MOUNTED	TOB	TOP OF BEAM		
CCT	CUBICLE CURTAIN TRACK	EPO	EMERGENCY POWER OFF	H	HAZARDOUS MATERIALS	HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	MTG	MOUNTING	TONM	TOP OF MASONRY		
CCTV	CLOSED CIRCUIT TELEVISION	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	H	HAZARDOUS MATERIALS	HXGN	HANGAR	MTL	METAL	TOP	TOP OF PARAPET		
CCW	COUNTERCLOCKWISE	EQ	EQUAL	H	HAZARDOUS MATERIALS	HGR	HANGER	MULL	MULLION	TOS	TOP OF STEEL		
CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS	EQL SP	EQUALLY SPACED	H	HAZARDOUS MATERIALS	HM	HOLLOW METAL	MW	MICROWAVE	TOW	TOP OF WALL		
CEM	CEMENT	EQUIP	EQUIPMENT	H	HAZARDOUS MATERIALS	HMD	HOLLOW METAL DOOR	MWP	MEMBRANE WATERPROOFING	TRANS	TRANSOM		
CEM PLAS	CEMENT PLASTER	EQUIV	EQUIVALENT	H	HAZARDOUS MATERIALS	HMDF	HOLLOW METAL DOOR AND FRAME	N	NORTH	TRTD	TREATED		
CER	CERAMIC	ERD	EXISTING ROOF DRAIN	H	HAZARDOUS MATERIALS	HMF	HOLLOW METAL FRAME	NA	NOT APPLICABLE	TS	TUBE STEEL		
CF	CONTRACTOR FURNISHED	ESC	ESCAPE OR ESCUTCHEON	H	HAZARDOUS MATERIALS	HNDRL	HANDRAIL	NAT	NATURAL	TSTAT	THERMOSTAT		
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	ESMT	EASEMENT	H	HAZARDOUS MATERIALS	HO	HOLD OPEN	NATL	NATIONAL	TV	TELEVISION		
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	ESP	ESPECIALLY	H	HAZARDOUS MATERIALS	HORIZ	HORIZONTAL	NC	NOISE CRITERIA	TYP	TYPICAL		
CFLG	COUNTERFLASHING	EST	ESTIMATE	H	HAZARDOUS MATERIALS	HOSP	HOSPITAL	NC	NURSE CALL	U	HEAT TRANSFER COEFFICIENT		
CFMF	COLD-FORMED METAL FRAMING	ETC	AND SO FORTH OR ET CETERA	H	HAZARDOUS MATERIALS	HP	HIGH PRESSURE	NCOMBL	NONCOMBUSTIBLE	UC	UNDERCUT		
CG	CORNER GUARD	EW	ELECTRIC WATER COOLER	H	HAZARDOUS MATERIALS	HQ	HEADQUARTERS	NEG	NEGATIVE	UGND	UNDERGROUND		
CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS	EWC	ELECTRIC WATER COOLER	H	HAZARDOUS MATERIALS	HR	HANDRAIL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN	ULT	ULTIMATE		
CH	COAT HOOK	EWS	EYE WASH STATION	H	HAZARDOUS MATERIALS	HS	HEAT-STRENGTHENED (GLASS) OR HIGH STRENGTH	NEUT	NEUTRAL	UNFIN	UNFINISH		
CHEM	CHEMICAL	EXH	EXHAUST	H	HAZARDOUS MATERIALS	HSE	HOUSE	NRC	NOISE REDUCTION COEFFICIENT	UNO	UNLESS OTHERWISE NOTED		
CHFR	CHAMFER	EXIST	EXISTING	H	HAZARDOUS MATERIALS	HSKPG	HOUSEKEEPING	NRC	NATIONAL ROOFING CONTRACTORS ASSOCIATION	UPS	UNINTERRUPTIBLE POWER SUPPLY		
CHK	CHECK	EXP	EXPANSION OR EXPOSED	H	HAZARDOUS MATERIALS	HST	HOIST	NRC	NATIONAL FIRE CODE	UR	URNAL		
CI	CAST IRON	EXP BT	EXPANSION BOLT	H	HAZARDOUS MATERIALS	HT	HEIGHT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UTIL	UTILITY		
CIP	CAST-IN-PLACE	EXT GR	EXISTING GRADE	H	HAZARDOUS MATERIALS	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	NIC	NOT IN CONTRACT	UV	ULTRAVIOLET		
CIR	CIRCLE	EXT	EXTERNAL, OR EXTINGUISHER	H	HAZARDOUS MATERIALS	HXT	HEAVY	NO	NUMBER				
CIRC	CIRCULAR	EXT GR	EXTERNAL GRADE	H	HAZARDOUS MATERIALS	HW	HOT WATER	NOM	NOMINAL				
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	F	FAHRENHEIT OR FEMALE	H	HAZARDOUS MATERIALS	HYD	HYDRANT	NR	NOISE REDUCTION				
CL	CENTER LINE	FA	FIRE ALARM	H	HAZARDOUS MATERIALS	HYDR	HYDRAULIC	NRC	NOISE REDUCTION COEFFICIENT				
CLDG	CLADDING	FAB	FABRIC	H	HAZARDOUS MATERIALS	IAQ	INDOOR AIR QUALITY	NRC	NATIONAL ROOFING CONTRACTORS ASSOCIATION				
CLG	CEILING	FAC	FACTOR	H	HAZARDOUS MATERIALS	IBC	INTERNATIONAL BUILDING CODE	NRP	NONREMOVABLE				
CLG HT	CEILING HEIGHT	FACIL	FACILITY	H	HAZARDOUS MATERIALS	ID	INSIDE DIAMETER	NS	NARROW STYLE				
CLR	CLEAR	FAS	FASCIA	H	HAZARDOUS MATERIALS	ID NO	IDENTIFICATION NUMBER	NUM	NUMERAL				
CM	CONSTRUCTION MANAGEMENT	FAS BD	FASCIA BOARD	H	HAZARDOUS MATERIALS	ILLUM	ILLUMINATION	O	OXYGEN				
CMU	CONCRETE MASONRY UNIT	FCD	F										

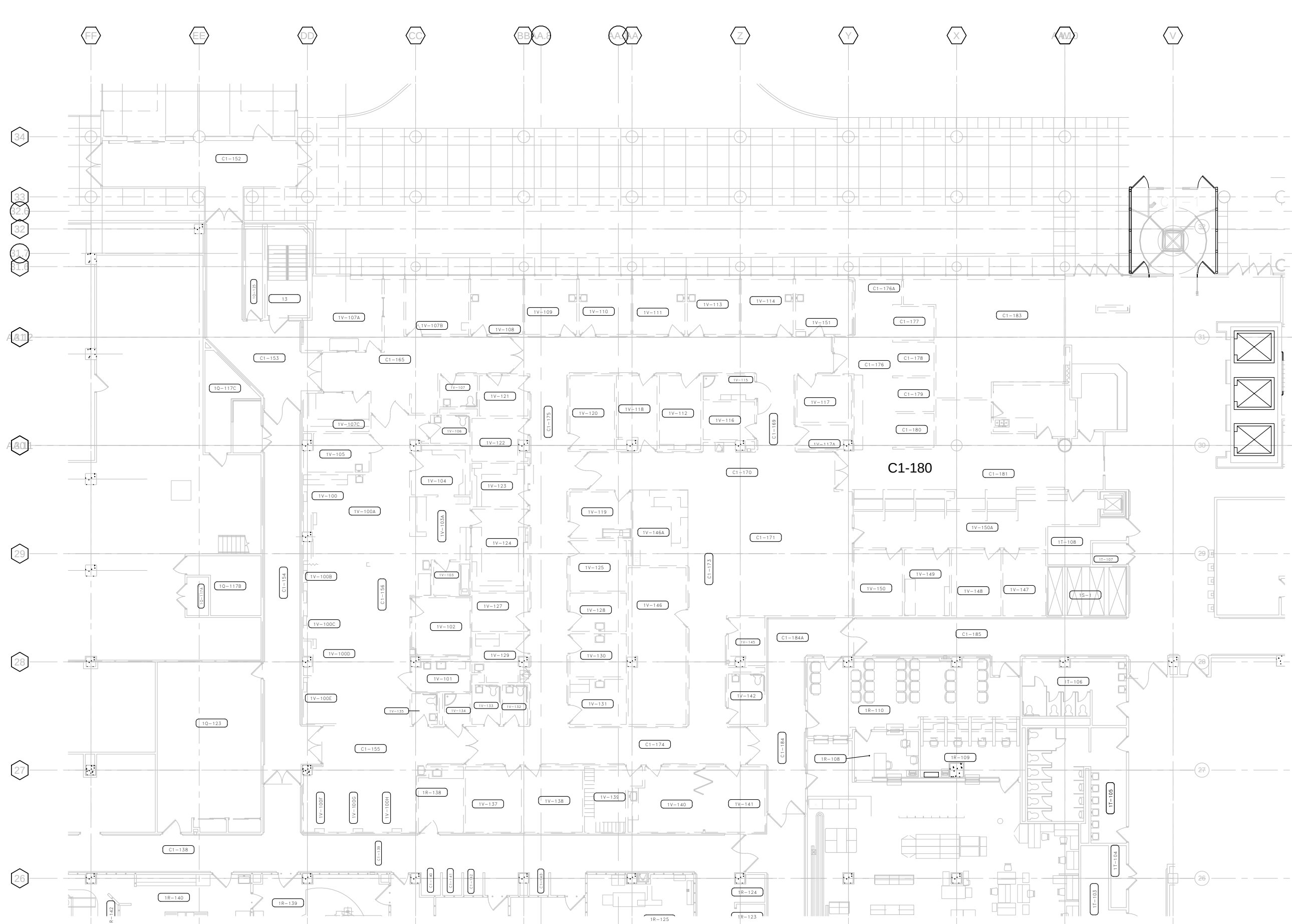
one-eighth in = one foot
one-quarter in = one foot
three-eighth in = one foot
one-half in = one foot
three-quarters in = one foot
one in = one foot
one and one-half in = one foot
two in = one foot
three in = one foot
four in = one foot
five in = one foot
six in = one foot
seven in = one foot
eight in = one foot
nine in = one foot
ten in = one foot
eleven in = one foot
twelve in = one foot
thirteen in = one foot
fourteen in = one foot
fifteen in = one foot
sixteen in = one foot
seventeen in = one foot
eighteen in = one foot
nineteen in = one foot
twenty in = one foot
twenty-one in = one foot
twenty-two in = one foot
twenty-three in = one foot
twenty-four in = one foot
twenty-five in = one foot
twenty-six in = one foot
twenty-seven in = one foot
twenty-eight in = one foot
twenty-nine in = one foot
thirty in = one foot
thirty-one in = one foot
thirty-two in = one foot
thirty-three in = one foot
thirty-four in = one foot
thirty-five in = one foot
thirty-six in = one foot
thirty-seven in = one foot
thirty-eight in = one foot
thirty-nine in = one foot
forty in = one foot
forty-one in = one foot
forty-two in = one foot
forty-three in = one foot
forty-four in = one foot
forty-five in = one foot
forty-six in = one foot
forty-seven in = one foot
forty-eight in = one foot
forty-nine in = one foot
fifty in = one foot
fifty-one in = one foot
fifty-two in = one foot
fifty-three in = one foot
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fifty-five in = one foot
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sixty in = one foot
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sixty-nine in = one foot
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seventy-one in = one foot
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seventy-nine in = one foot
eighty in = one foot
eighty-one in = one foot
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eighty-four in = one foot
eighty-five in = one foot
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eighty-seven in = one foot
eighty-eight in = one foot
eighty-nine in = one foot
ninety in = one foot
ninety-one in = one foot
ninety-two in = one foot
ninety-three in = one foot
ninety-four in = one foot
ninety-five in = one foot
ninety-six in = one foot
ninety-seven in = one foot
ninety-eight in = one foot
ninety-nine in = one foot
one hundred in = one foot



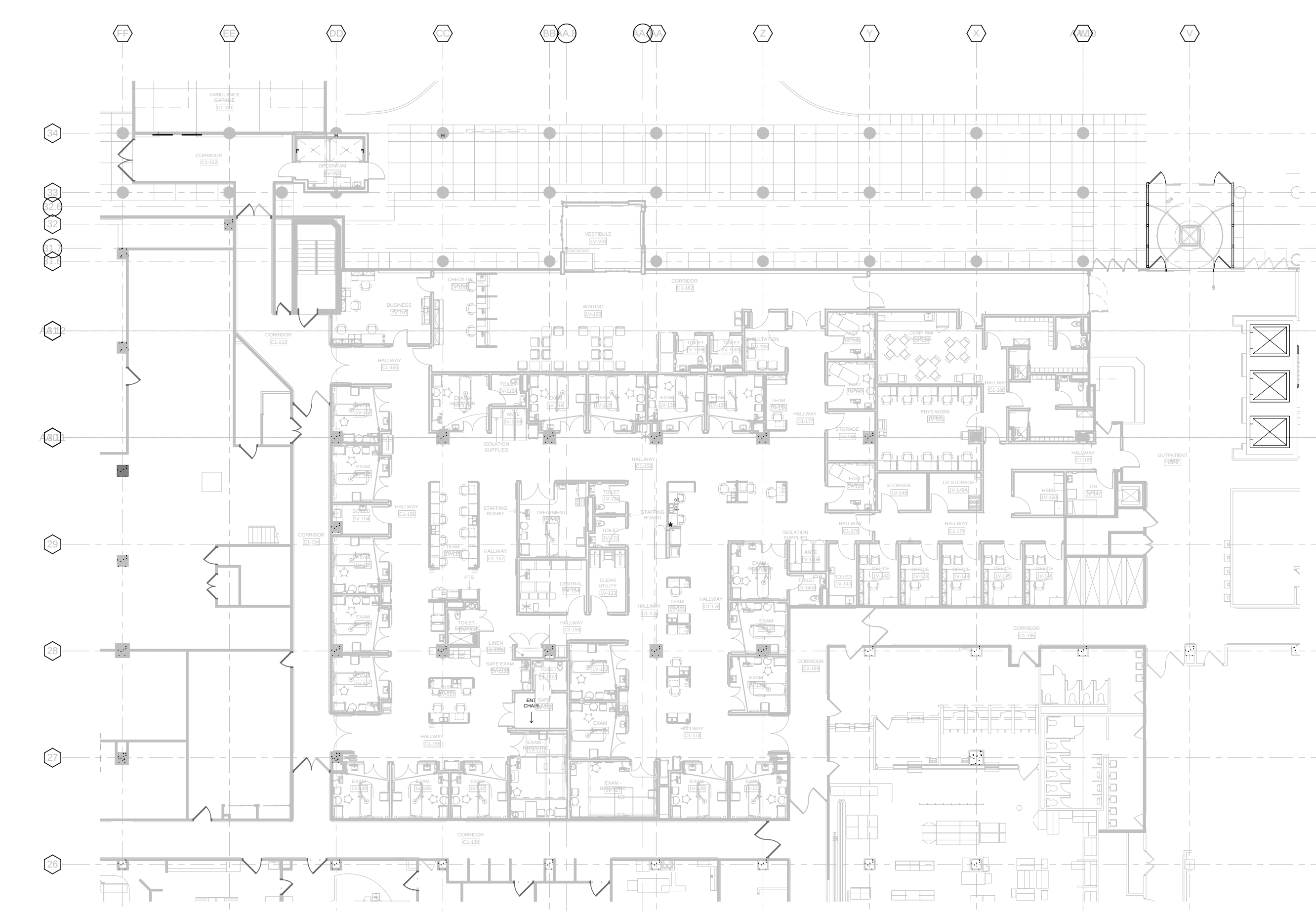
PHASE 1 PLAN DIAGRAM



PHASE 2 PLAN DIAGRAM



EXISTING CONDITION PLAN DIAGRAM



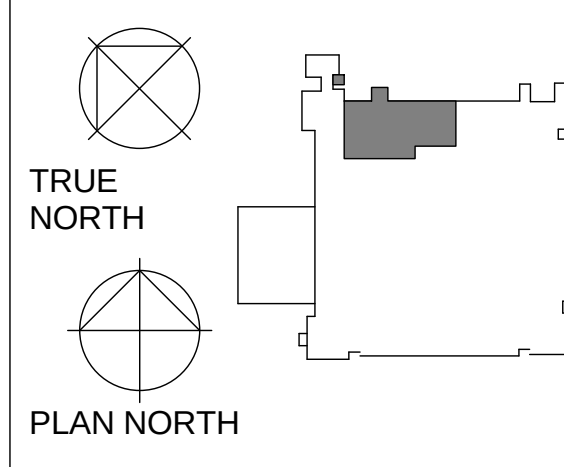
PHASE 1 & PHASE 2 PLAN DIAGRAM

1 PHASING PLAN
1" = 20'-0"

GENERAL NOTES:

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS, WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

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Drawing Scale: AS NOTED
Plot Scale: 12" = 1'-0"

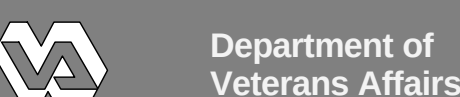
Drawing Title WORK PHASE PLAN DIAGRAM
Approved:
Approved:

Project Title VA MINNEAPOLIS ED RENOVATION 13441
Location ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
Date 01/02/2014
Checked Checker
Drawn Author

Project Number 618-14-104
Building Number 70
Drawing Number 1272-70-G104
Dwg. 4 of 73

FULLY SPRINKLERED

Office of
Facilities
Management



LIFE SAFETY LEGEND

RATED FIRE PARTITIONS (IBC 708)

- 1 = 1 HR FIRE PARTITION
2 = 2 HR FIRE PARTITION
3 = 3 HR FIRE PARTITION

RATED FIRE BARRIERS (IBC 706/707)

- 1B = 1 HR FIRE BARRIER
2B = 2 HR FIRE BARRIER
3B = 3 HR FIRE BARRIER

RATED FIRE WALLS (IBC 705)

- 2W = 2 HR FIRE WALL
3W = 3 HR FIRE WALL

RATED FIRE BARRIERS W/ 45 MIN OPENING PROTECTION -
DELUGE REQUIRED AT GLAZING ONLY

- 1D = 1 HR FIRE BARRIER W/ DELUGE
2D = 2 HR FIRE BARRIER W/ DELUGE

SMOKE PARTITIONS (IBC 709/710)

- 1S = 1 HR SMOKE BARRIER
2S = 2 HR SMOKE BARRIER
S = SMOKE PARTITION - CORRIDOR
CONSTRUCTION TO PREVENT
SMOKE PENETRATION
AT = AIR TIGHT PARTITION

SYMBOL KEY

- FIRE EXTINGUISHER
FIRE EXTINGUISHER CABINET

AREA 19

AREA 20
SUITE 1 of 2 AREA = 9,861 SF

AREA 21

AREA 23

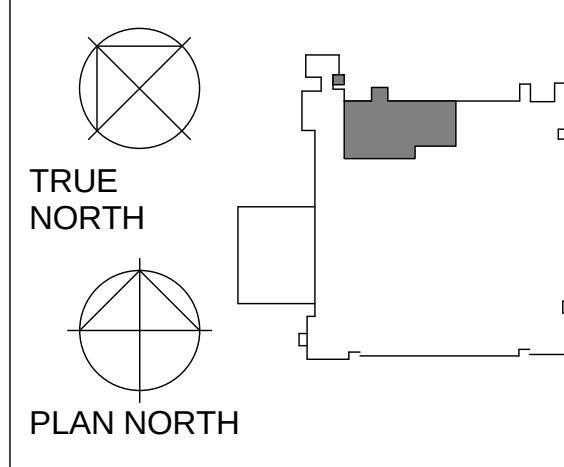
AREA 44

1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

GENERAL
NOTES:

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Drawing Title
FIRST FLOOR LIFE SAFETY PLAN

Drawing Scale:
AS NOTED

Plot Scale:
12" = 1'-0"

Project Title
**VA MINNEAPOLIS ED
RENOVATION 13441**

Location
ONE VETERANS DRIVE
MINNEAPOLIS, MN 55417

Project Number
618-14-104

Building Number
70

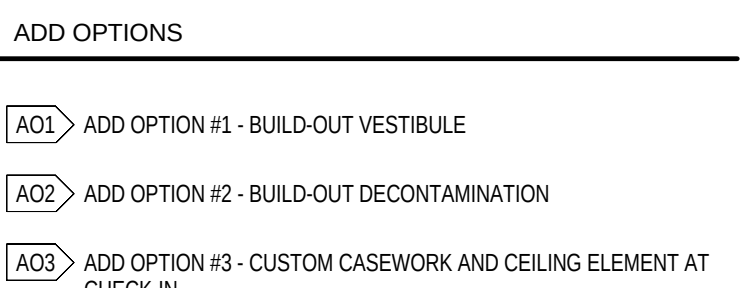
Drawing Number
1272-70-AS02

Dwg. 6 of 73

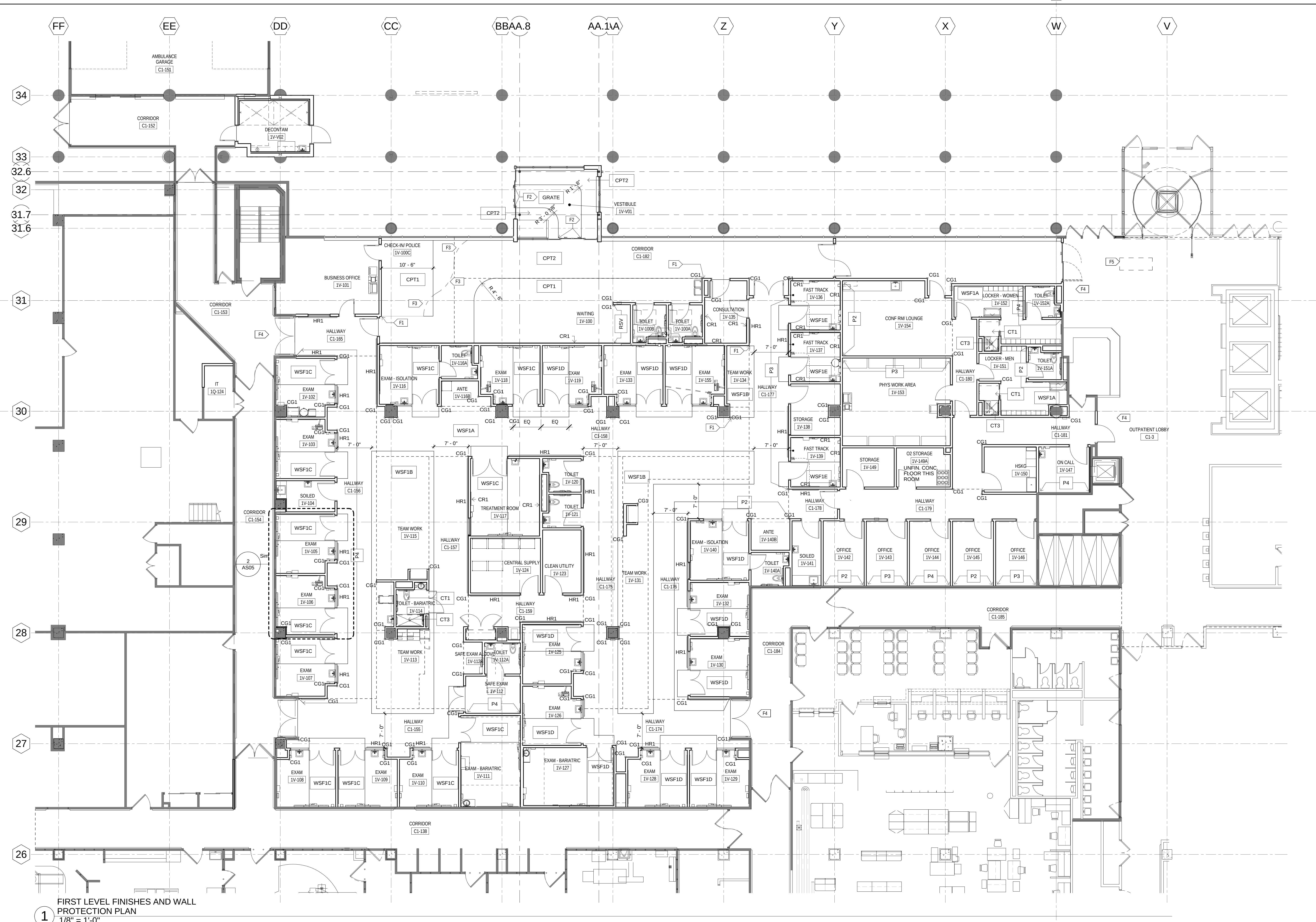
Office of
Facilities
Management

Department of
Veterans Affairs

FULLY SPRINKLERED



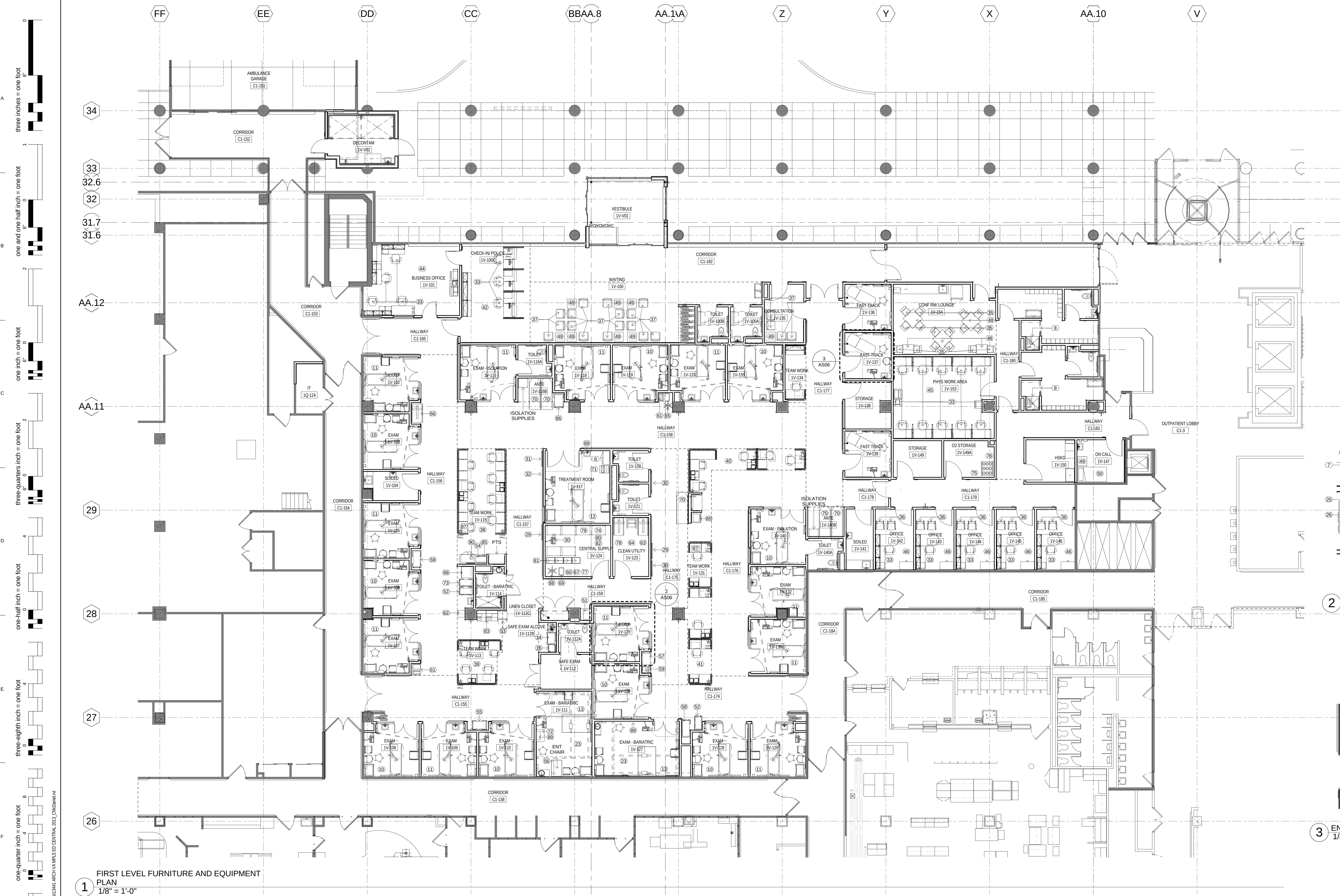
Department of
Veterans Affairs

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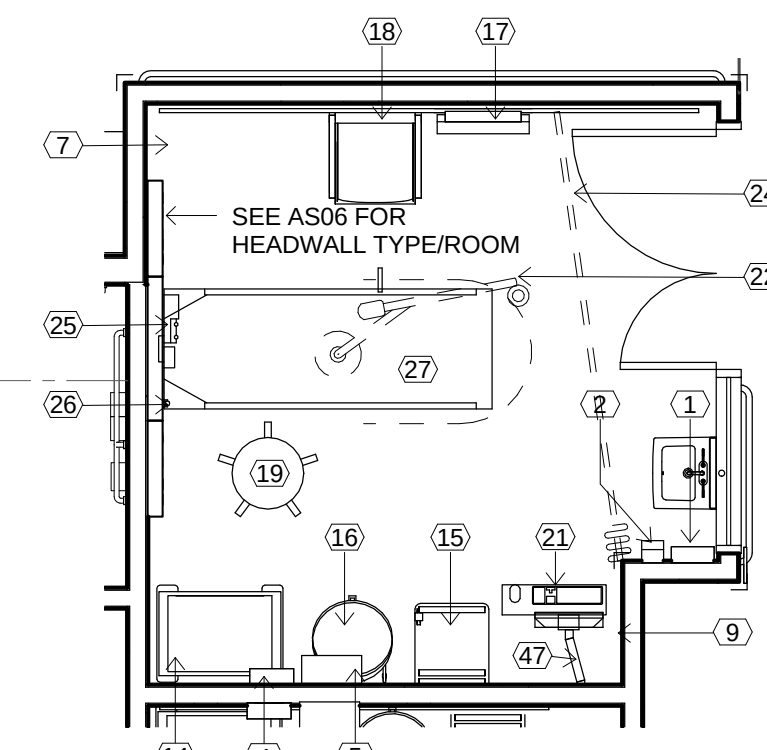
2 ENLARGED PLAN EXAM TYP FINISHES
1/4" = 1'-0"

FULLY SPRINKLERED

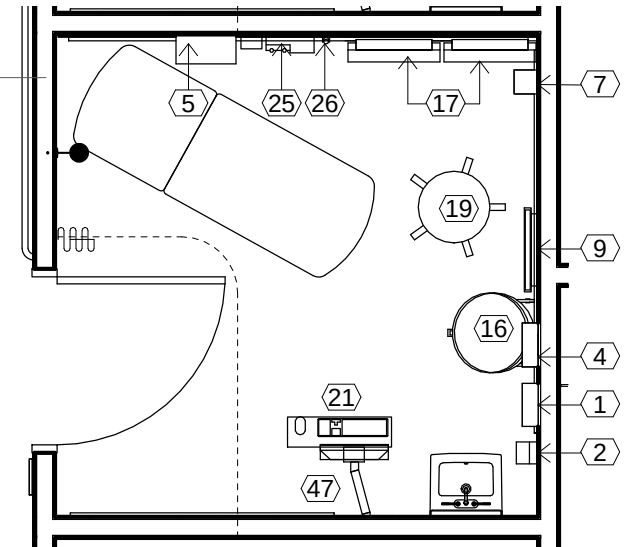
GENERAL NOTES:	GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS, WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.		ANDERSON ENGINEERING ARCHITECTS • ENGINEERS • LAND SURVEYORS PLANNING • DESIGN • CONSTRUCTION SERVICES Anderson Engineering of Minnesota, LLC 13003 1st Avenue North Suite 100 Saint, MN 55124 763-412-4000 (cell) 763-412-4090 (f) aengr.com	DUNHAM Dunham Associates, Inc. 55 South Street - Suite 1100 Minneapolis, Minnesota 55402-1540 Tel: 612-445-1544 Fax: 612-445-1544 Email: info@dunhaminc.com mechanical • electrical consulting engineering	TRUE NORTH PLAN NORTH	Drawing Title FIRST FLOOR FINISHES AND WALL PROTECTION PLAN	Project Title VA MINNEAPOLIS ED RENOVATION 13441	Project Number 618-14-104	Office of Facilities Management
	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, ANY AND ALL CUTTING OF CONCRETE, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR OPENING OR CONSULT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE. FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM ANY/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.	LHP PERFORMANCE DRIVEN DESIGN. LLC 2116 Superior Rd., Ste. 500 Duluth, MN 55802 763.277.1721	Drawing Scale: AS NOTED	Approved:	Location ONE VETERANS DRIVE MINNEAPOLIS, MN 55417	Drawing Number 70			
	No. Revisions Date	Plot Scale: 12" = 1'-0"	Approved:	Date 01/02/2014	Checked PR	Drawn EB/TD	1272-70-AS05 Dwg. 9 of 73		



- FLOOR PLAN GENERAL NOTES**
- FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND MATERIALS, ETC SEE G102 AND G103.
- INTERIOR ELEVATION GENERAL NOTES**
- REFER TO AS22 CASEWORK FINISHES AND GENERAL NOTES FOR CABINET TYPES, TOP TYPES, SHELF TYPES, PLAM, FINISHES, WOOD FINISHES, ADJUSTABLE SHELVING AND OTHER GENERAL CASEWORK NOTES AND INFORMATION.
 - FOR TYPICAL COUNTER TOP TYPES, UNDERCOUNTER TASK LIGHTING, SUPPORT BRACKET TYPES, COUNTER TOP CORNER, GROMMET, GYSEPLAM SOFFIT DETAILS AND PLANKWOOD FINISHES, SEE AS22 AND CASEWORK FINISHES AND GENERAL NOTES.
 - SEE SPECIFICATION FOR BUILDING, TOILET AND BATHROOM ACCESSORIES.
 - SEE SPECIFICATION FOR TOILET PARTITIONS AND URINAL SCREENS.
 - REFER TO SHEET AS17 FOR TYPICAL FITTINGS, FIXTURES, ACCESSORIES, ASSEMBLIES TYPICAL MOUNTING HEIGHTS, DIMENSIONS AND OTHER GENERAL INFORMATION, UNO.
 - SEE AS20 FOR FURNITURE AND EQUIPMENT SCHEDULE WITH EQUIPMENT CODE DESCRIPTIONS.
 - PROVIDE WALL BLOCKING AT ARTWORK, MBD AND TBD AND ALL OTHER WALL MOUNTED ITEMS - SEE AS18.



2 ENLARGED EXAM TYP EQUIPMENT PLAN
1/4" = 1'-0"



3 ENLARGED FAST TRACK TYP EQUIP PLAN
1/4" = 1'-0"

1 FIRST LEVEL FURNITURE AND EQUIPMENT PLAN
1/8" = 1'-0"

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ANDERSON ENGINEERING
Anderson Engineering of Minnesota, LLC
13005 7th Avenue North
Suite 100
Plymouth, MN 55441
763-412-6000 or 763-412-4000
www.ae-mn.com

DUNHAM
Dunham Associates, Inc.
930 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
Phone: 612-465-7500
Fax: 612-465-7501
www.dunhameng.com
mechanical • electrical
consulting engineering

TRUE NORTH
PLAN NORTH

PERFORMANCE DRIVEN DESIGN
121 W. Superior St., Ste. 502, Duluth, MN 55802 | 218.727

Drawing Title
FIRST FLOOR FURNITURE AND EQUIPMENT PLAN

Drawing Scale:
AS NOTED

Plot Scale:
12" = 1'-0"

Project Title
VA MINNEAPOLIS ED RENOVATION 13441

Location
ONE VETERANS DRIVE
MINNEAPOLIS, MN 55417

Project Number
618-14-104

Building Number
70

Drawing Number
1272-70-AS06

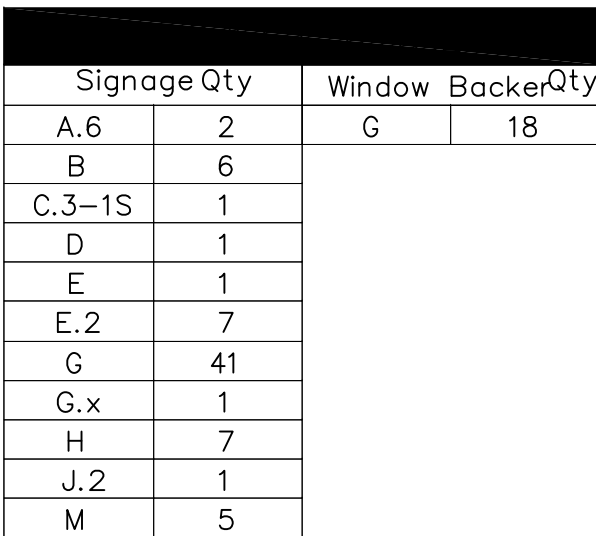
Dwg. 10 of 73

Office of
Facilities
Management

Department of
Veterans Affairs

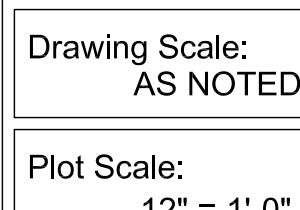
one-eighth inch = one foot
one-quarter inch = one foot
three-eighths inch = one foot
one-half inch = one foot
three-quarters inch = one foot
one inch = one foot
one and one-half inch = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
eighteen inches = one foot
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ninety inches = one foot
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ninety-three inches = one foot
ninety-four inches = one foot
ninety-five inches = one foot
ninety-six inches = one foot
ninety-seven inches = one foot
ninety-eight inches = one foot
ninety-nine inches = one foot
one hundred inches = one foot

FULLY SPRINKLERED



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Drawing Scale:
AS NOTED

Plot Scale:
1" = 1' 0"

Approved:	
Approved:	

Location	ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
----------	---

Date
01/02/2014

Checked

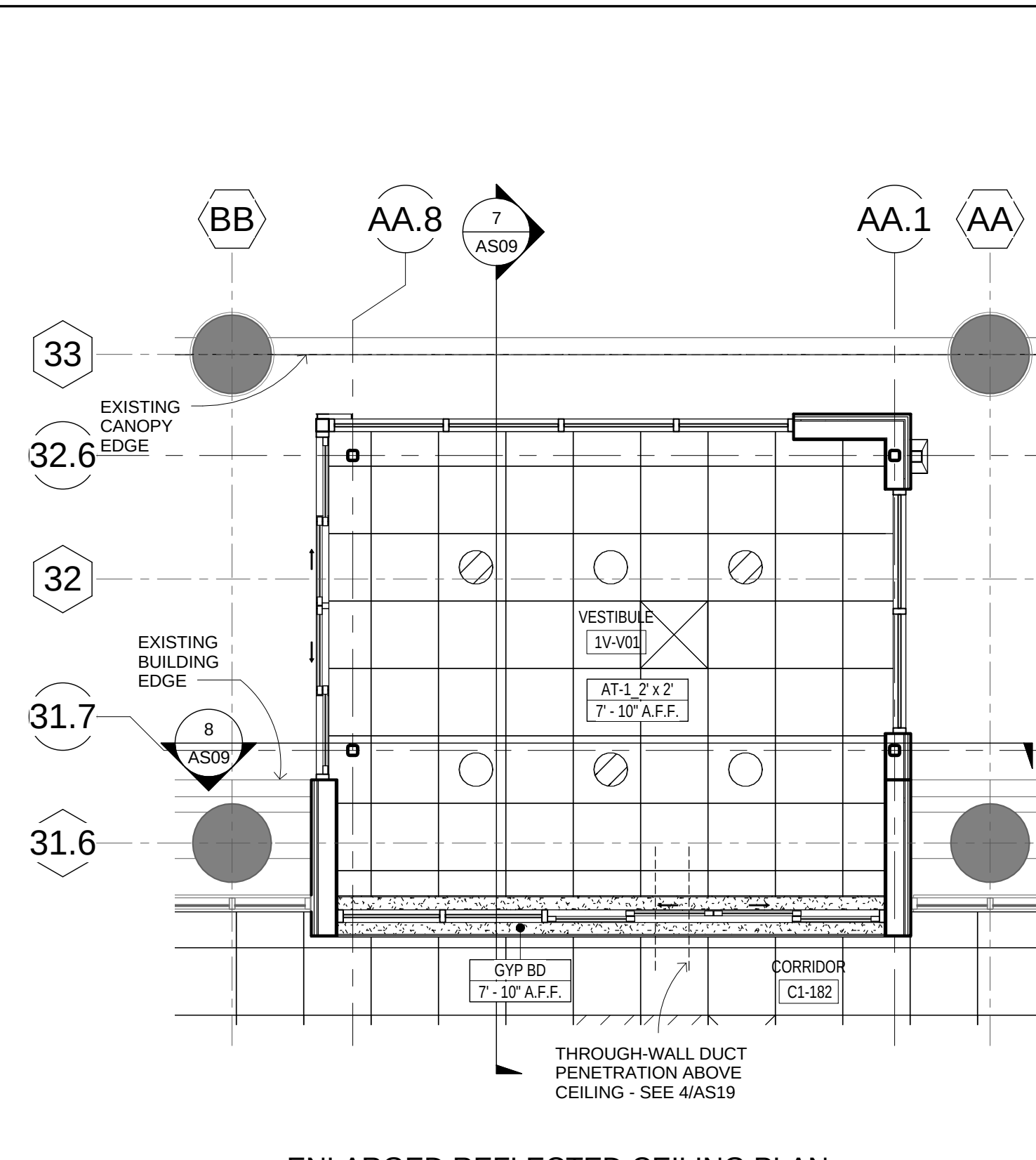
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Drawing Number
1272-70 AS07

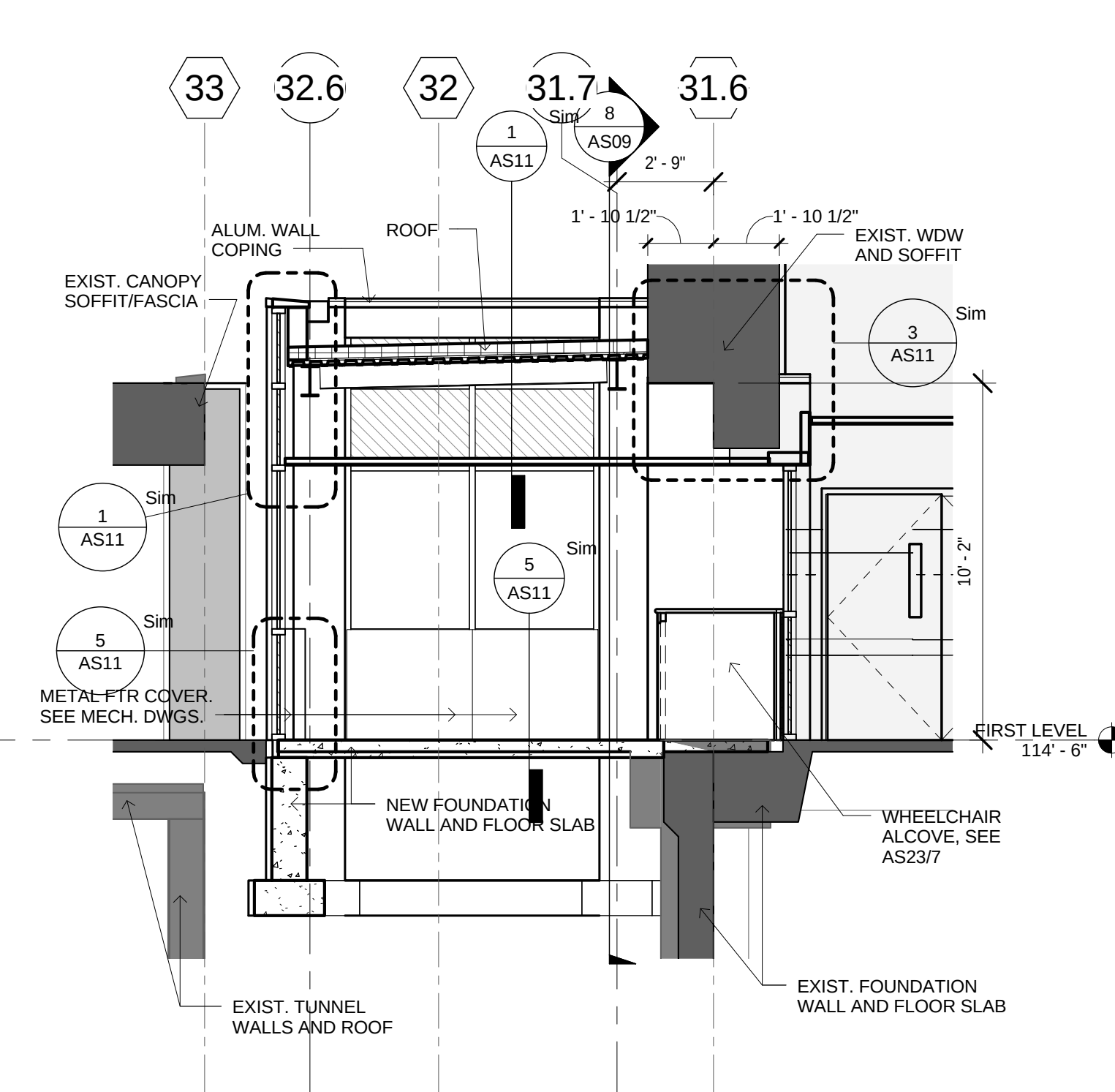
Dwa. 11 of 73

Office of
Facilities
Management



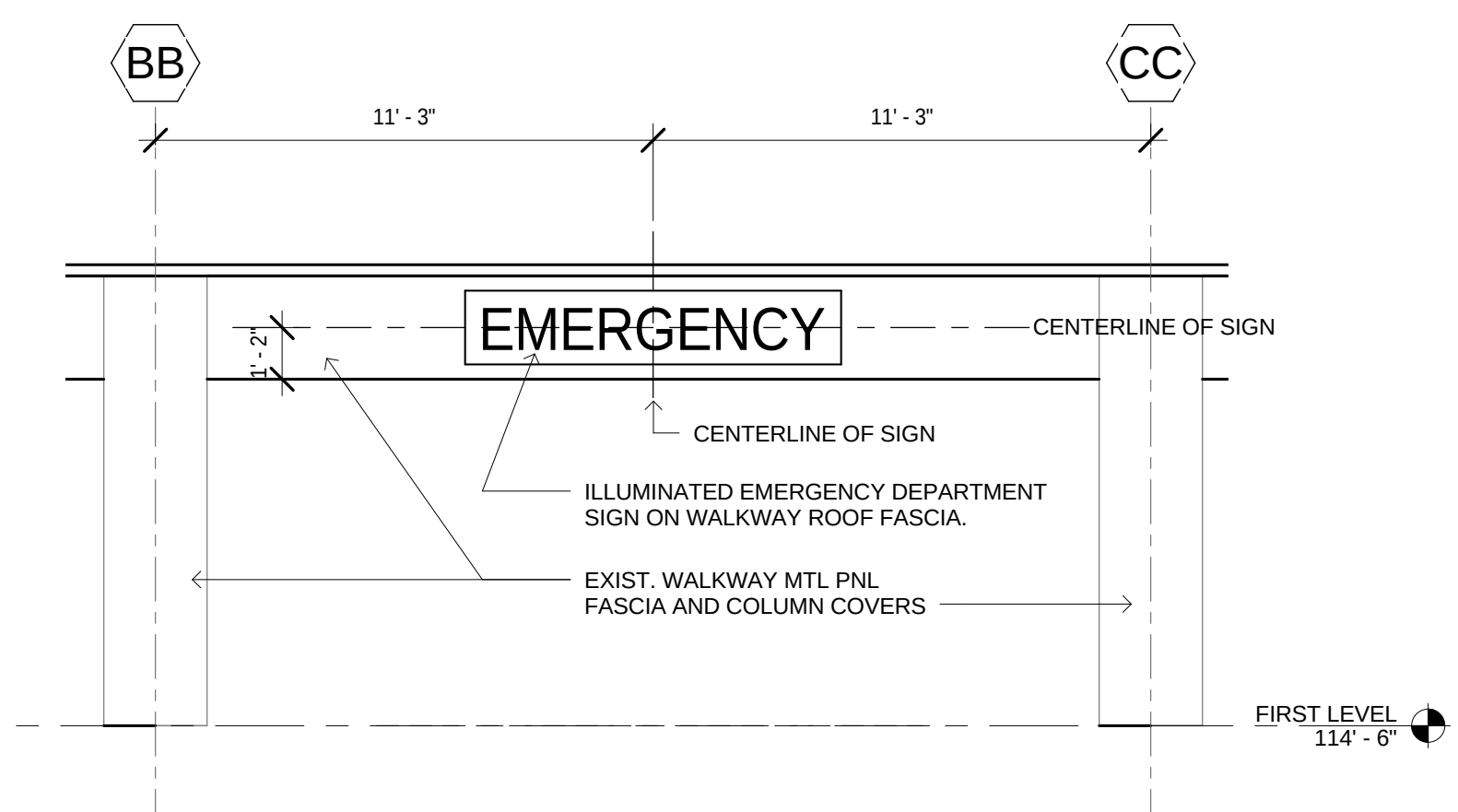


2 ENLARGED PLAN SECOND LEVEL
VESTIBULE ROOF
1/4" = 1'-0"

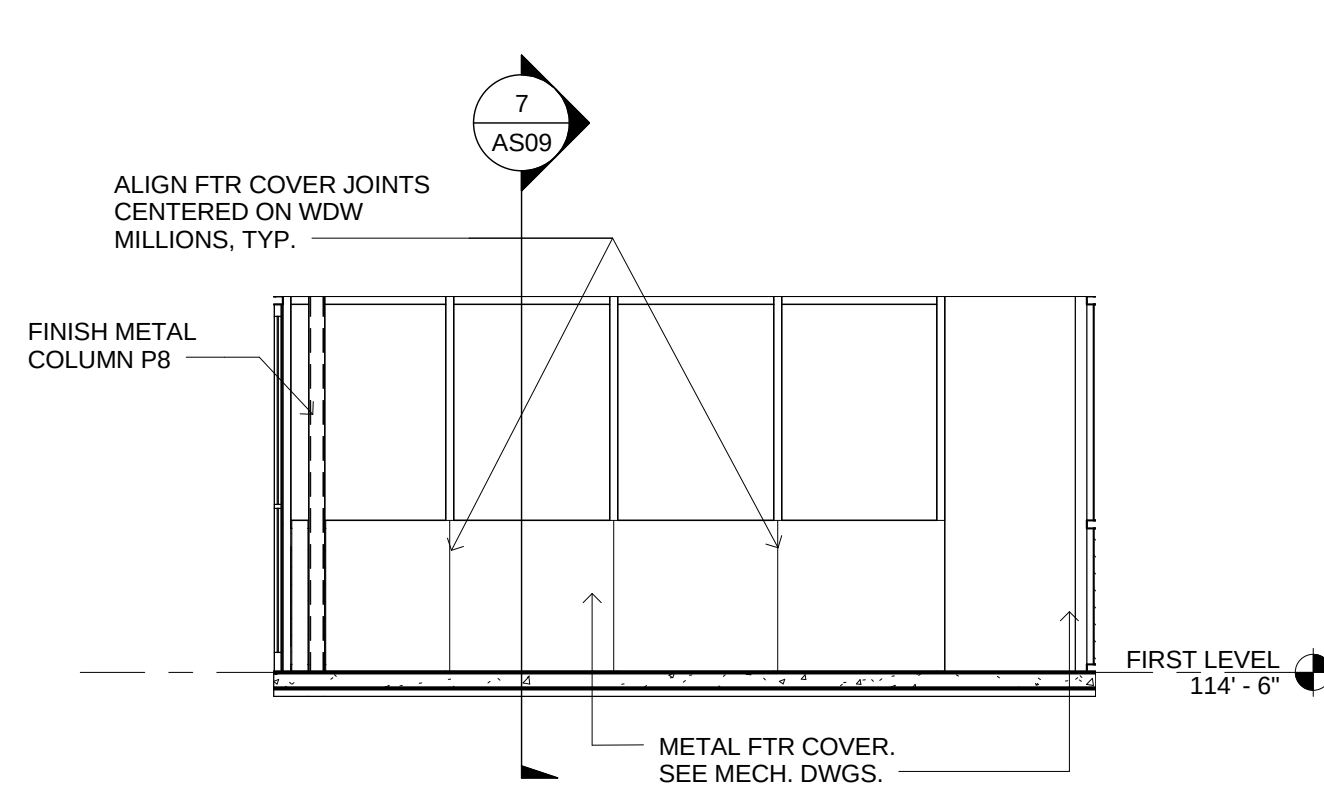


6 EXTERIOR ELEVATION VESTIBULE WEST
1/4" = 1'-0"

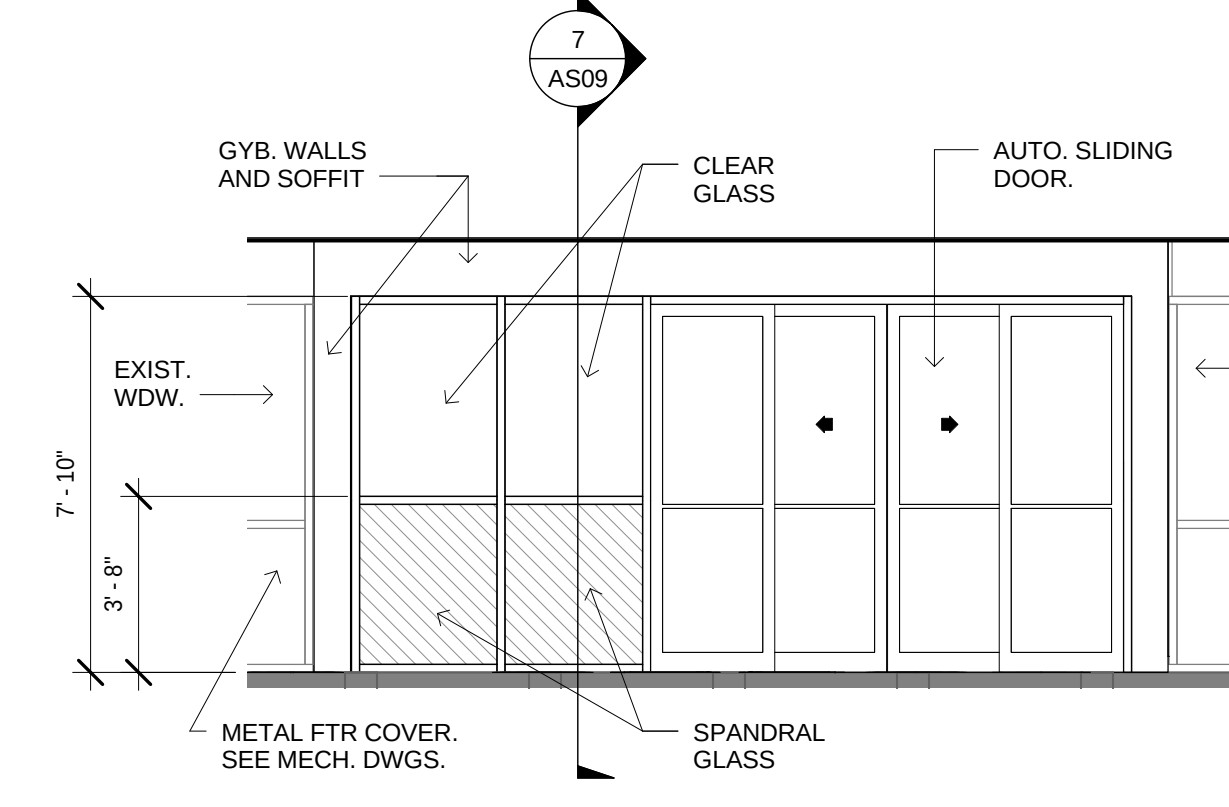
8 SECTION VESTIBULE 2
1/4" = 1'-0"



13 EMERGENCY DEPARTMENT SIGN
1/4" = 1'-0"



11 VESTIBULE NORTH
1/4" = 1'-0"



12 VESTIBULE CORRIDOR
1/4" = 1'-0"



Office of
Facilities
Management

Department of
Veterans Affairs

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DUNHAM

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FAX 612.465.7551
WEB dunhameng.com
**mechanical + electrical
consulting engineering**

TRUE NORTH

PLAN NORTH

	Drawing Title ENLARGED VESTIBULE PLANS ELEVATIONS AND SECTIONS
Drawing Scale: AS NOTED	Approved:
Plot Scale: 12" = 1'-0"	Approved:

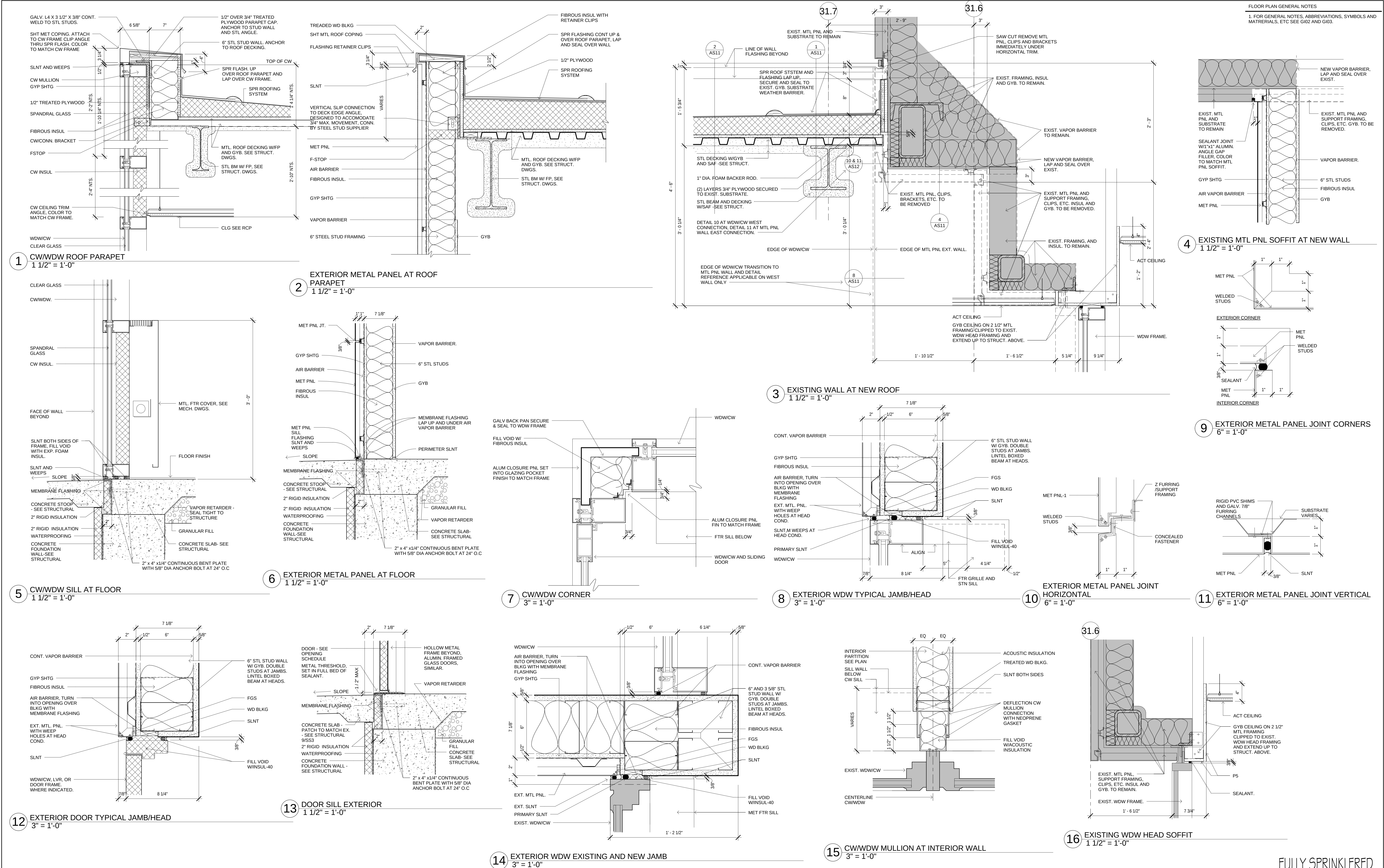
Project Title	VA MINNEAPOLIS ED RENOVATION 13441		
Location	ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	01/02/2014	Checked PR	Drawn EB/TD

Project Number
618-14-104

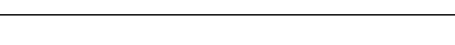
Building Number
70

Drawing Number
1272-70-AS09

Dwg. 13 of 73



11/2/2014 11:21:27 PM

		GENERAL NOTES:	GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS, WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.		ANDERSON ENGINEERING ARCHITECTURE • INTERIORS • LANDSCAPE ARCHITECTURE Anderson Engineering of Minnesota, LLC 3005 St. James Avenue North Suite 100 Minneapolis, MN 55412 Tel: 612-432-0368 or 763-432-4036 (if) Fax: 612-432-0368 www.aeinc.com		DUNHAM Dunham Associates, Inc. 50 South Sixth Street, Suite 1100 Minneapolis, Minnesota 55402-1540 Tel: 612-448-7560 Fax: 612-445-7551 dunhamcorp.com				Drawing Title		Project Title		Project Number		Office of Facilities Management		
			GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, AND ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PENETRATING CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE. FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.		DHD PERFORMANCE DRILLED DESIGN OFFSHORE 21 W. Superior St., Ste. 500 Duluth, MN 55802 218.737				TRUE NORTH		EXTERIOR DETAILS		VA MINNEAPOLIS ED RENOVATION 13441		618-14-104				
									PLAN NORTH		Drawing Scale: AS NOTED		Approved:		Location				Building Number
No.		Revisions		Date				Plot Scale: 12" = 1'-0"		Approved:		Date		Checked		Drawn		Drawing Number	
												01/02/2014		PR		EB/TD		1272-70-AS11	
																		Dwg. 15 of 73	
																		 Department of Veterans Affairs	



3 EXISTING CANOPY WDW AT NEW WALL
1 1/2" = 1'-0"



8 EXTERIOR WDW EXISTING JAMB CORNER
3" = 1'-0"



12 EXTERIOR LOUVER ACCESS PANEL
1 1/2" = 1'-0"

**GENERAL
NOTES:**

**ANDERSON
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Anderson Engineering of Minnesota, LLC
13605 1st Avenue North
Suite 100
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763-412-4000 (o) 763-412-4090 (f)
www.ae-mn.com

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**PERFORMANCE
DRIVEN DESIGN.**
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21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.721.7171

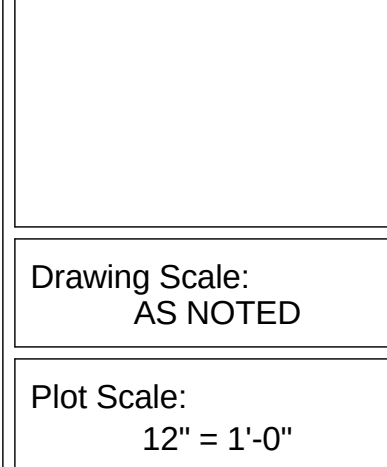


DUNHAM

Dunham Associates, Inc.
 50 South Sixth Street / Suite 1100
 Minneapolis, Minnesota 55402-1540

PHONE 612.465.7550
 FAX 612.465.7551
 WEB dunhameng.com

**mechanical + electrical
 consulting engineering**

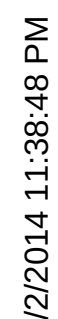


Location	ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
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Drawing Number

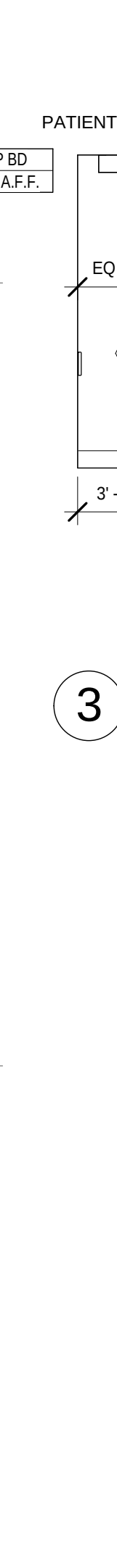
1272-70-AS

Department of
Veterans Affairs

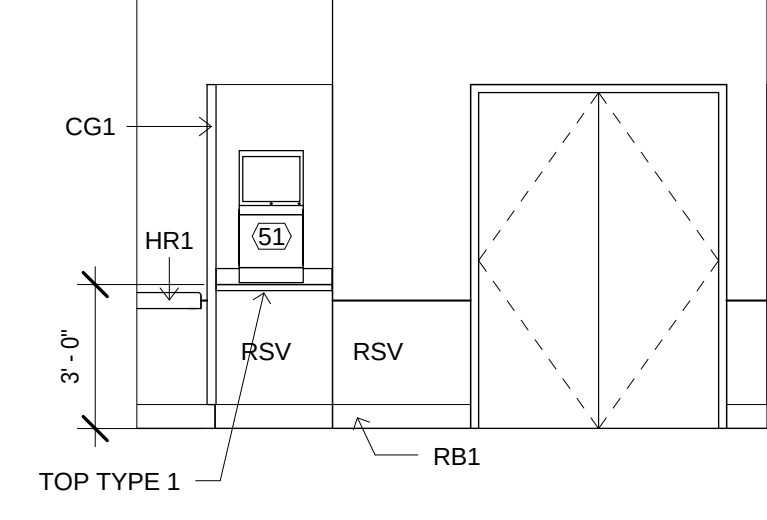




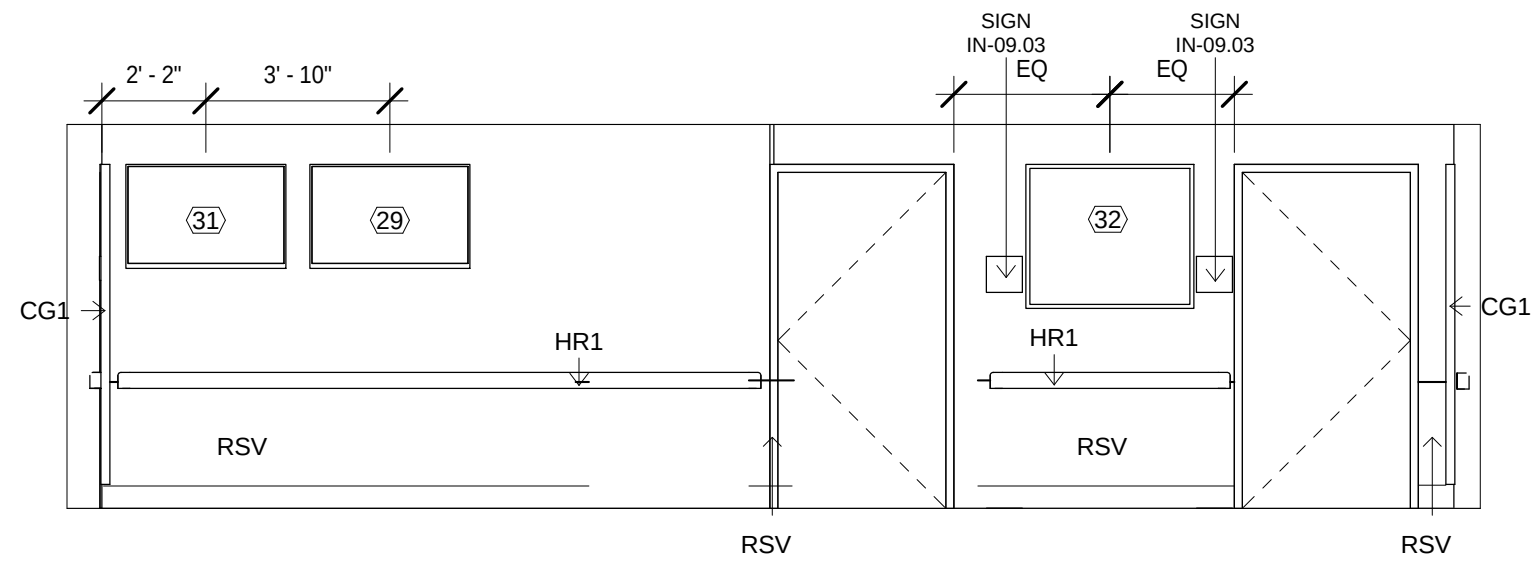
2 EXAM BARIATRIC
1/4" = 1'-0"



6 EXAM BARIATRIC (D)
1/4" = 1'-0"



8 CORRIDOR C1-159
1/4" = 1'-0"



12 CORRIDOR C1-175 STAFF MONITORS
1/4" = 1'-0"

9 ENLARGED PLAN ISOLATION BATHROOM
1/4" = 1'-0"

10 ENLARGED PLAN PUBLIC BATHROOMS
1/4" = 1'-0"

13 TYPICAL CORRIDOR ELEVATION
1/4" = 1'-0"

14 WAITING 1V-100, WHEELCHAIR ALCOVE
1/4" = 1'-0"

2D SEE 1/AS15 FOR TYP TOILET ROOM LAYOUT

GENERAL NOTES:

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 Minneapolis, Minnesota 55402-1540

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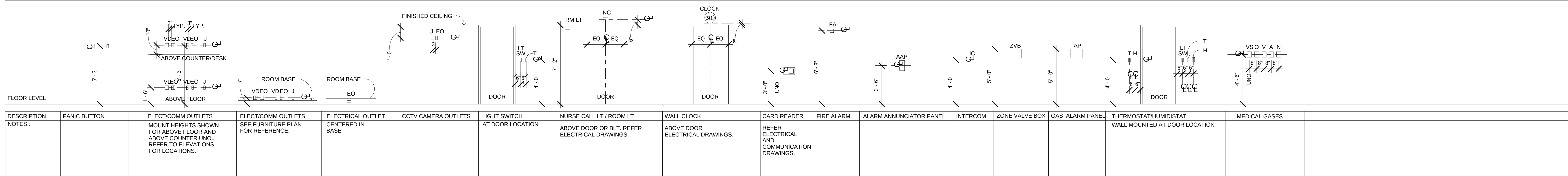
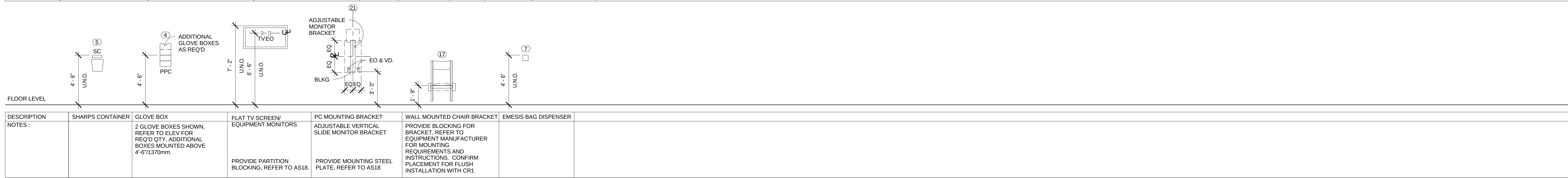
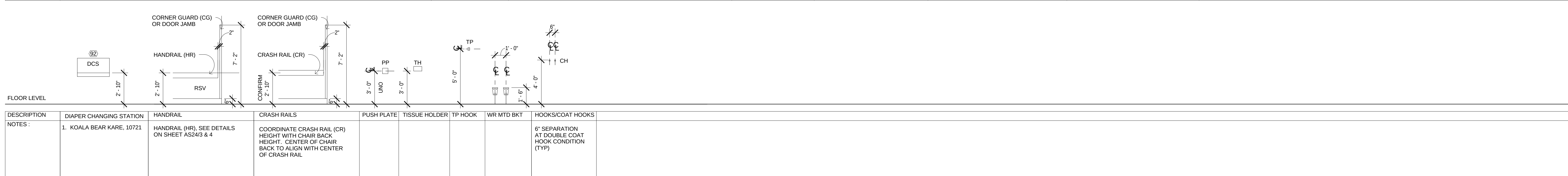
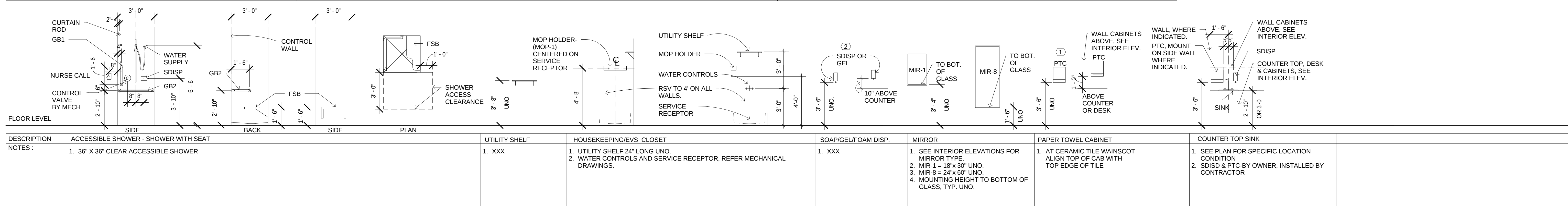
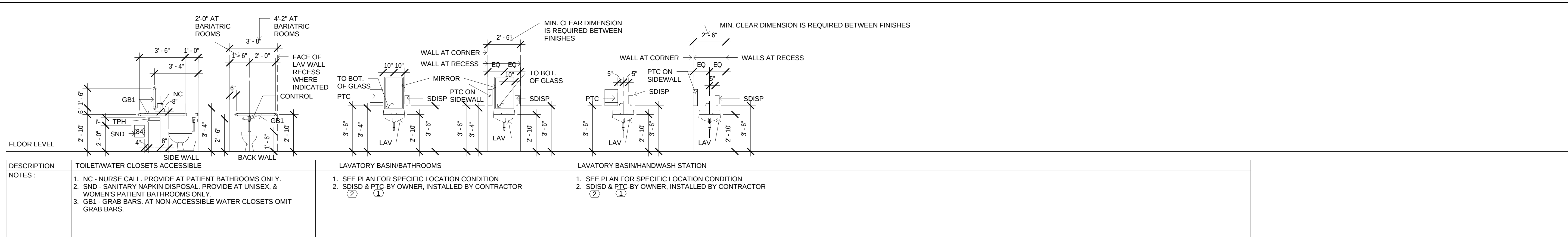
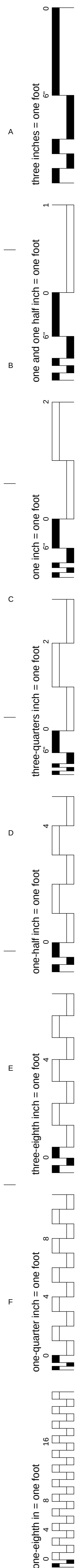
Drawing Scale: AS NOTED
Plot Scale: $12'' = 1'-0''$

Project Title		
VA MINNEAPOLIS ED RENOVATION 13441		
Location ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	Checked	Drawn
01/02/2014	PR	EB/TD

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Facilities
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 Department of
Veterans Affairs

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GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR. THE SUBCONTRACTOR'S TRADE FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.			ANDERSON ENGINEERING ENGINEERING • ARCHITECTURE • LANDSCAPE ARCHITECTURE 13005 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-6000 or 763-412-4300 (F) www.ae-inc.com DUNHAM ASSOCIATES, INC. 10 South Smith Street / Suite 1100 Minneapolis, Minnesota 55402-1540 Phone 612-465-7550 612-465-7581 www.dunhaminc.com mechanical • electrical consulting • engineering PERFORMANCE DESIGN Landscape.com 21 W. Superior St., Ste. 500 Duluth, MN 55802 724.7277			TRUE NORTH PLAN NORTH			Drawing Title INTERIOR ELEVATIONS - TYPICAL MOUNTING HEIGHTS Drawing Scale: AS NOTED Plot Scale: 1" = 1'-0"			Approved: Approved:			Project Title VA MINNEAPOLIS ED RENOVATION 13441 Location ONE VETERANS DRIVE MINNEAPOLIS, MN 55417 Date 01/02/2014 Checked PR Drawn EB/TD			Project Number 618-14-104 Building Number 70 Drawing Number 1272-70-AS17 Dwg. 21 of 73		
No.	Revisions	Date																		

TYPICAL MOUNTING HEIGHT GENERAL NOTES

1. FOR GENERAL ABBREVIATIONS, SYMBOLS AND MATERIALS, ETC SEE GI02 & GI03. FOR GENERAL NOTES SEE GI02.

2. PROVIDE EQUIPMENT, FIXTURE AND FITTING SUPPORT WOOD OR SHEET METAL BLOCKING IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, TYP. UNO. SEE ALSO TYPICAL PARTITION BLOCKING DETAILS.

3. REFER TO PLANS AND SPECIFIC ELEVATION FOR EQUIPMENT, FIXTURE AND FITTING LOCATIONS.

4. PNEUMATIC TUBE SYSTEM, BED LOCATORS, HEAD WALLS, TV'S, KEYBOARD, PENCIL DRAWERS, FURNITURE, PC'S, PRINTERS, COPIER AND FAXES NIC TYPICAL UNO.

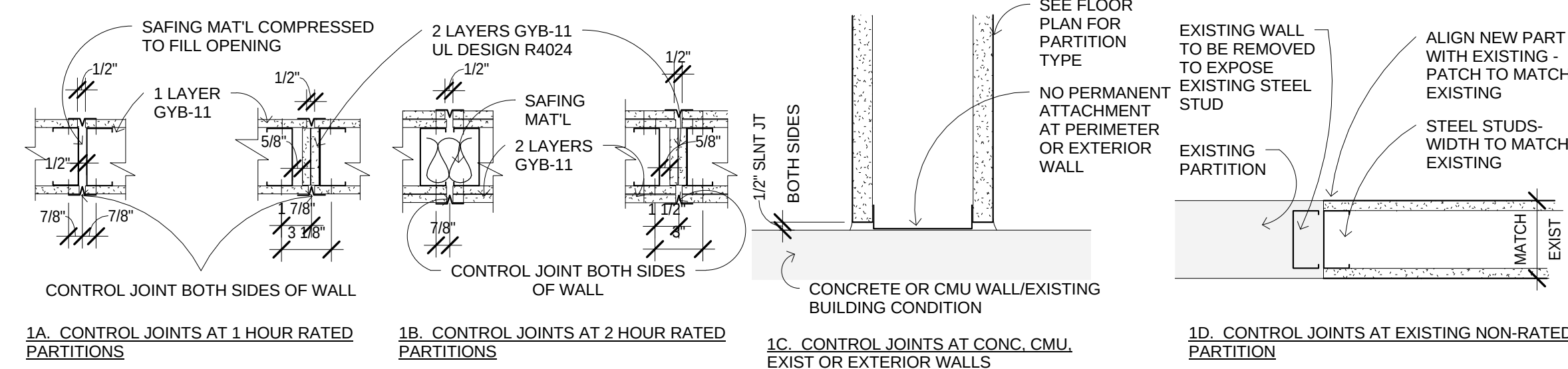
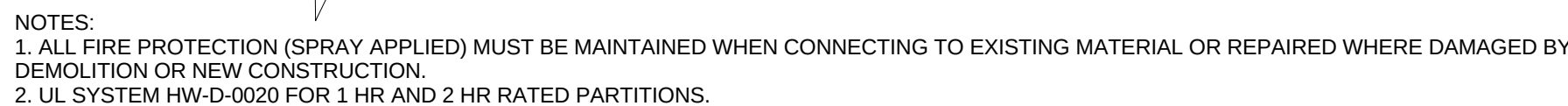
5. CLOCKS, FILM ILLUMINATORS, MOUNTING BRACKETS, SC SHARPS CONTAINERS, PPE/PPS GLOVE BOXES AND SOLUTION CENTERS ARE PROVIDED BY OTHERS AND INSTALLED BY THE CONTRACTOR TYPICAL UNO.

FULLY SPRINKLERED

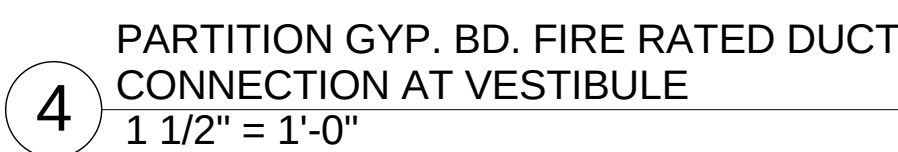
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Facilities
Management



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Veterans Affairs



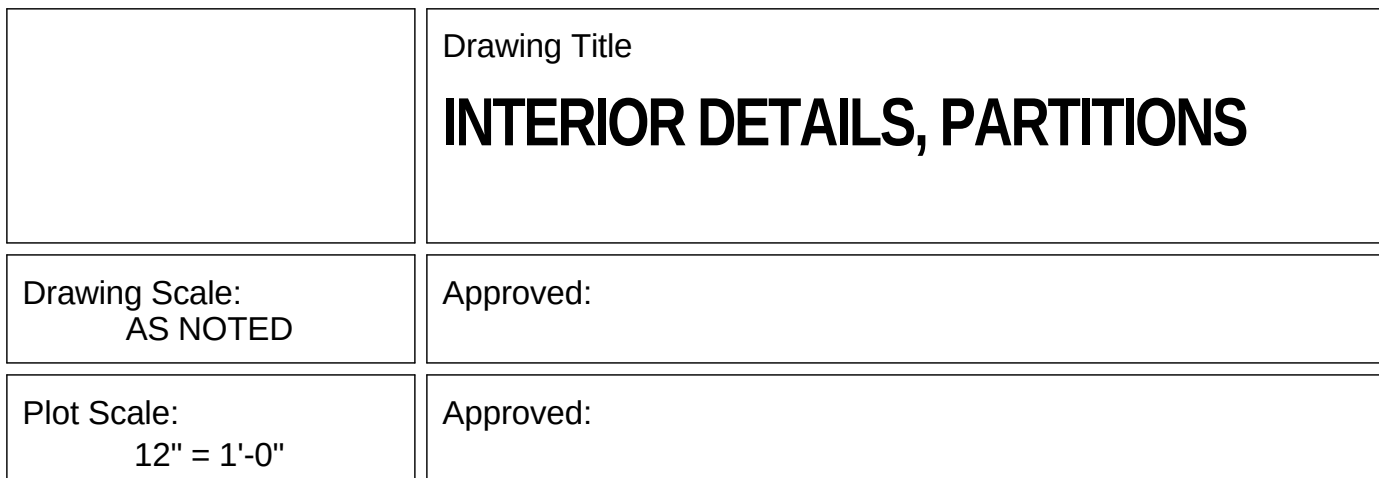
- 2 DEFLECTION DETAIL AT COMPOSITE DECKING
1 1/2" = 1'-0"



**GENERAL
NOTES:**

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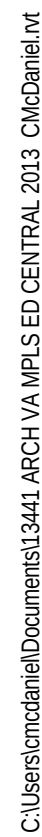
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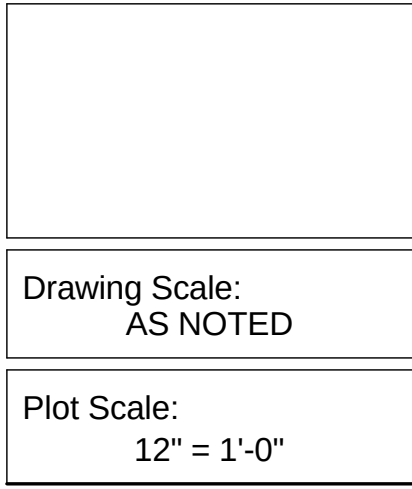
FULLY SPRINKLERED



No.	Revisions	Date

GENERAL CONTRACTOR AND/OR SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR CORRECTING ANY DISCREPANCIES. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & DOOR THRESHOLS. THE GENERAL CONTRACTOR SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE. FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE TRADE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING MATERIALS AND DEBRIS. THE GENERAL CONTRACTOR, PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE TRADE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCUMULATED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.



Project Title		
VA MINNEAPOLIS ED RENOVATION 13441		
Location		
ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	Checked	Drawn
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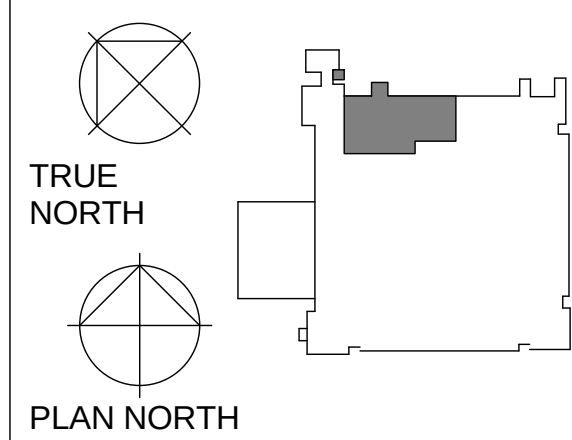
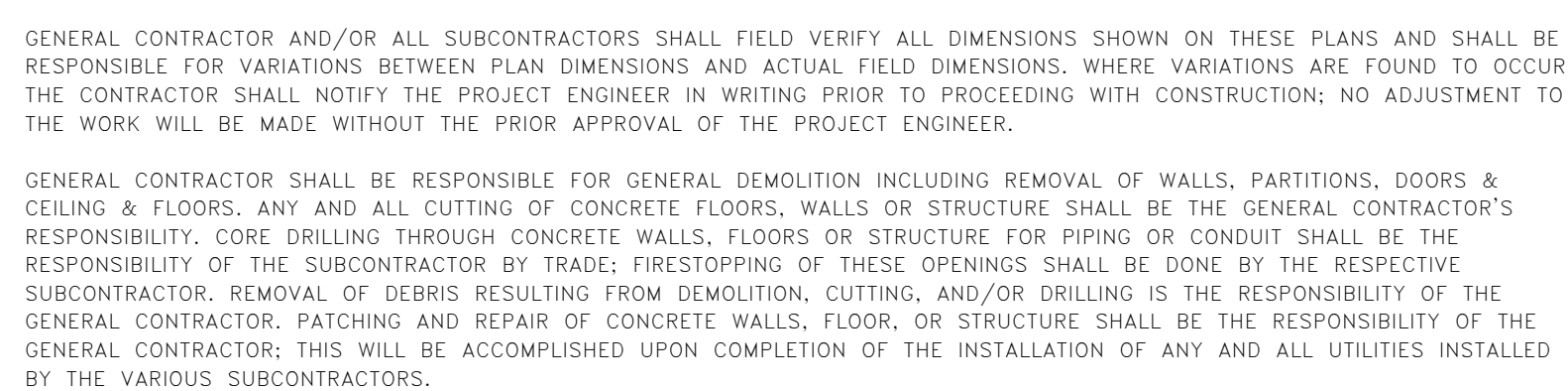
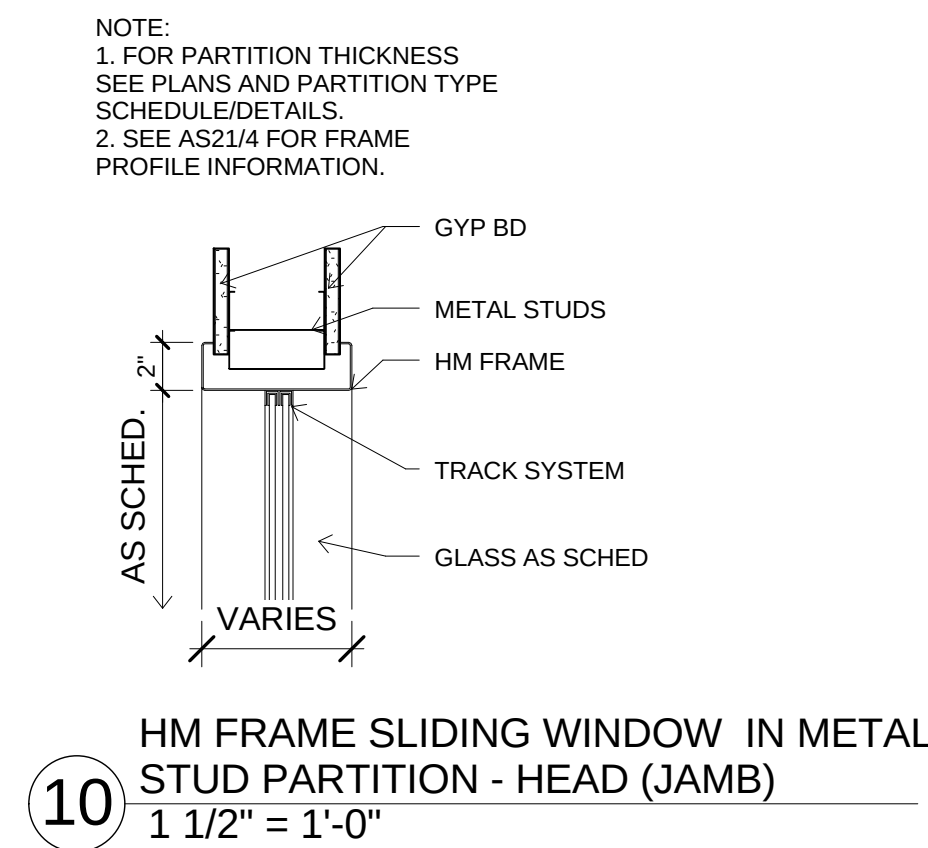
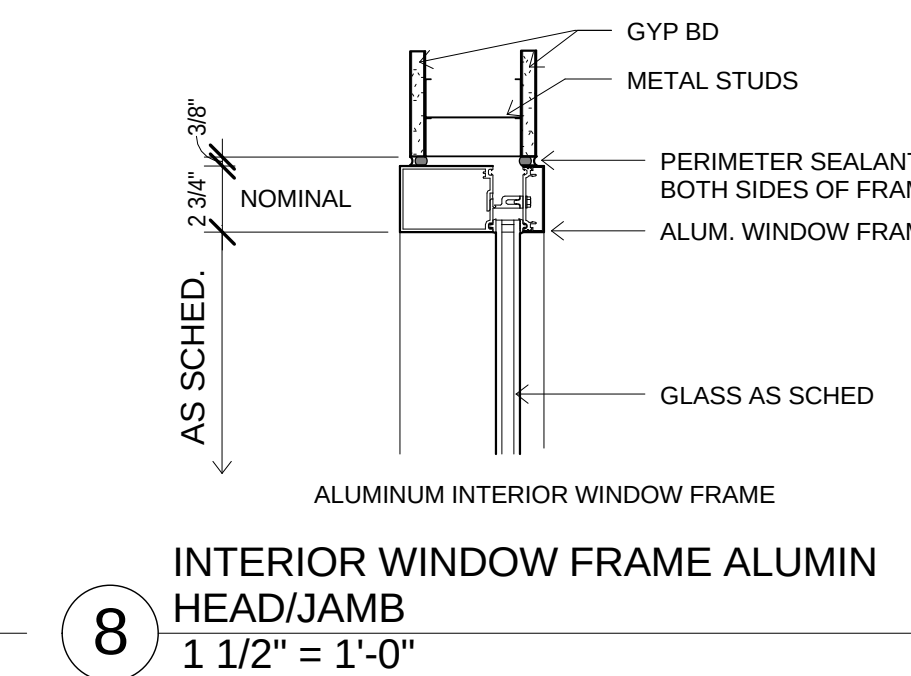
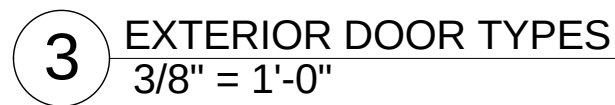
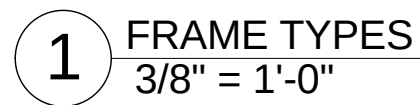
Office of
Facilities
Management



Department of
Veterans Affairs

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Project Number
618-14-104

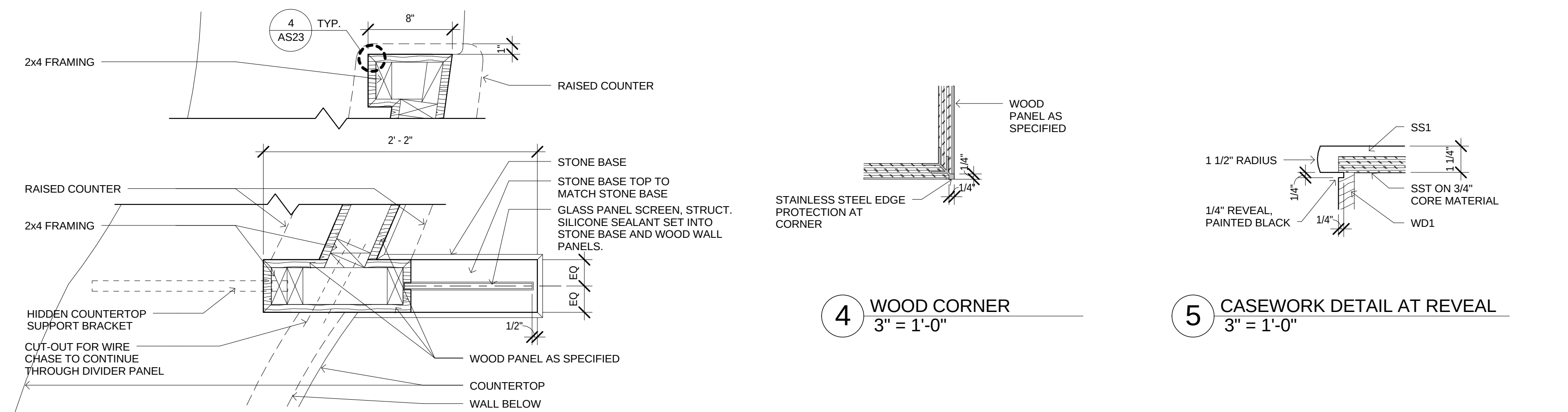
Building Number
70

Drawing Number
1272-70-AS21

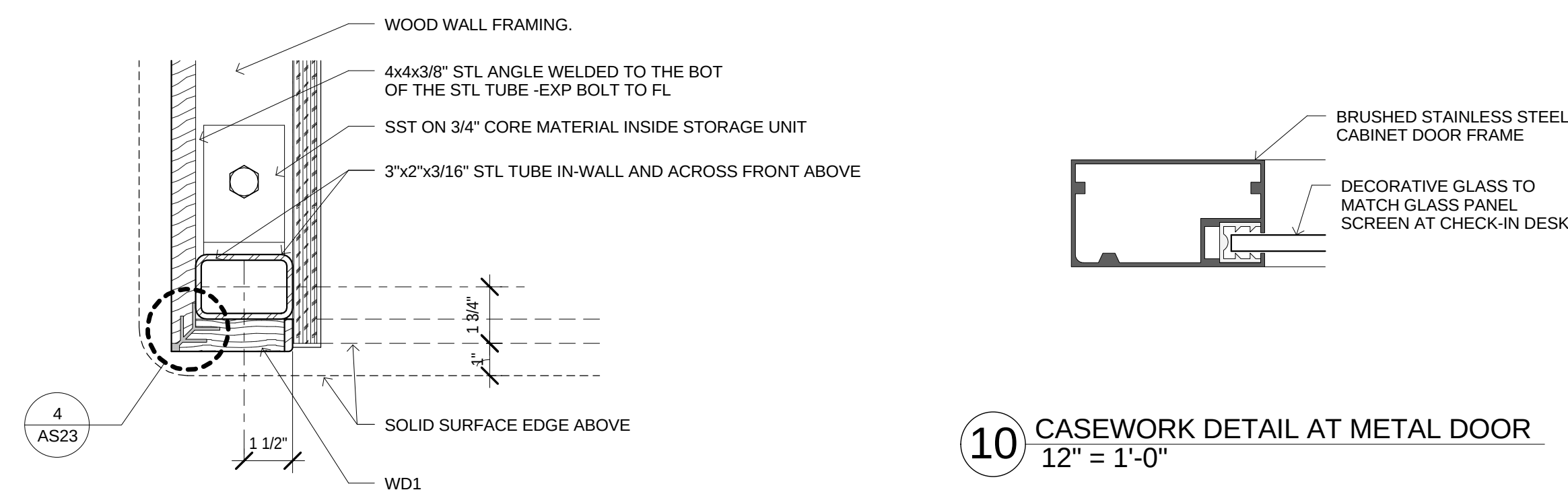
Dwg. 25 of 73

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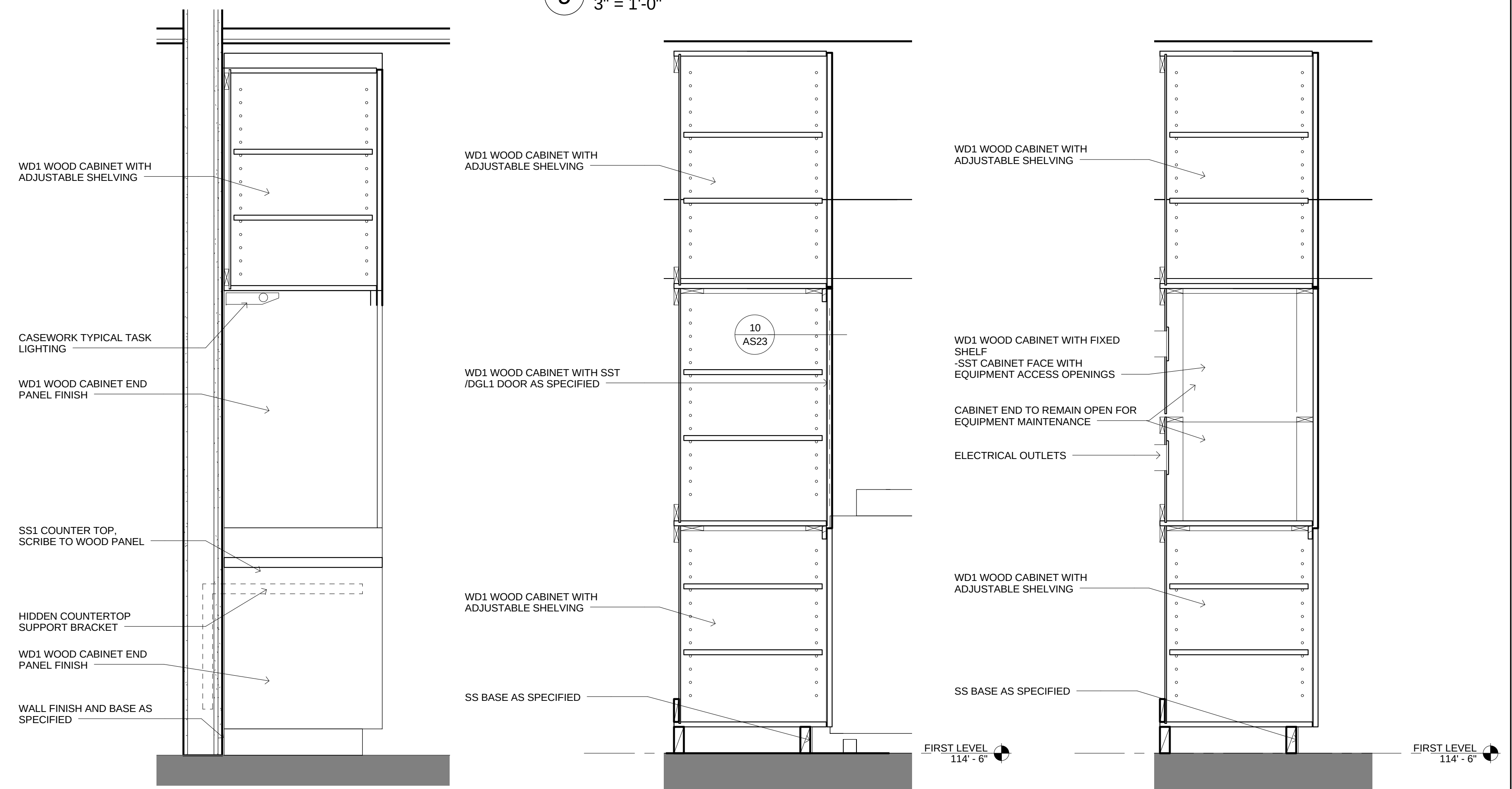
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3 CASEWORK CHECK IN DESK DETAIL
1 1/2" = 1'-0"

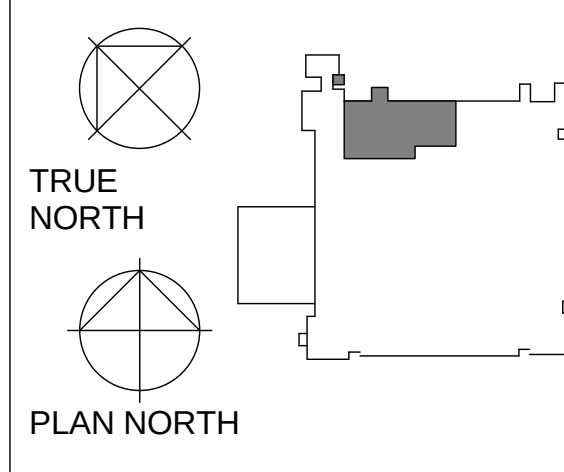


9 CASEWORK DETAIL AT WHEELCHAIR STORAGE
3" = 1'-0"



15 CASEWORK - CHECK IN DESK BACKWALL C
1" = 1'-0"

No.	Revisions	Date

[illegible]

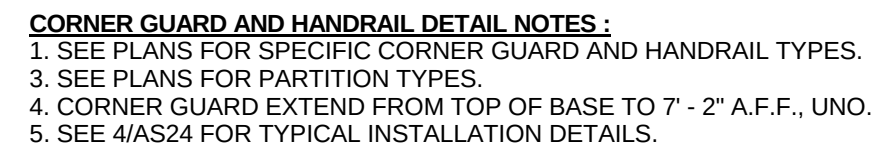
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AS NOTED

Plot Scale:
12" = 1'-0"

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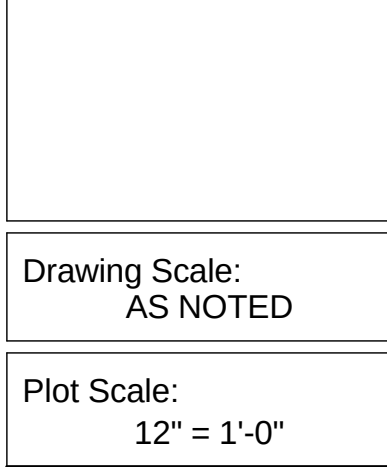
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NOTES:**

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Location	ONE VETERANS DRIVE MINNEAPOLIS, MN 55417
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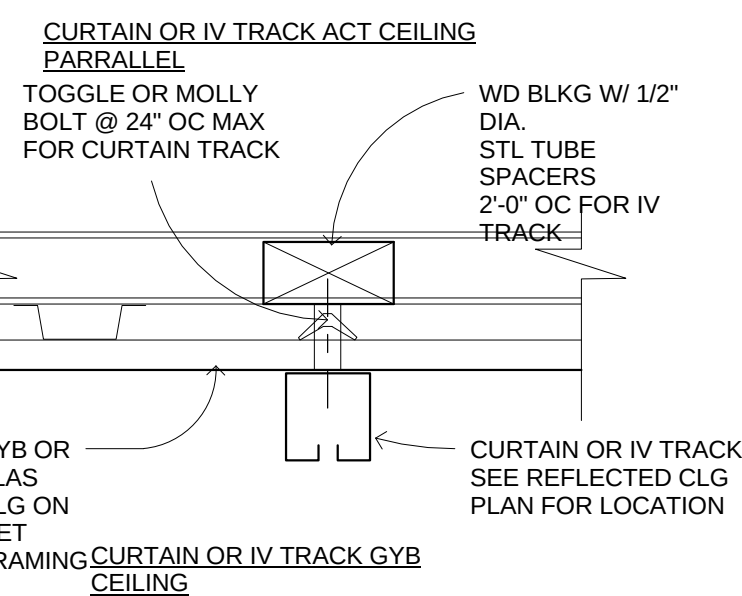
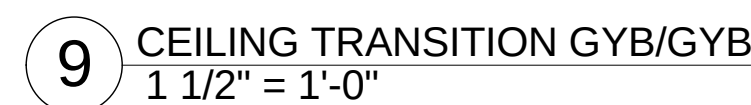
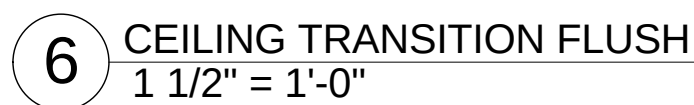
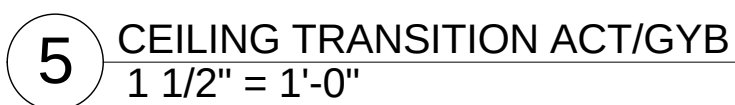
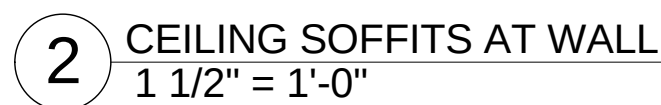
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Drawing Number

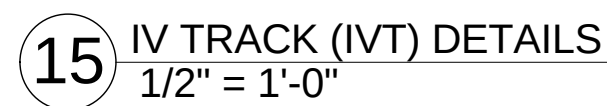
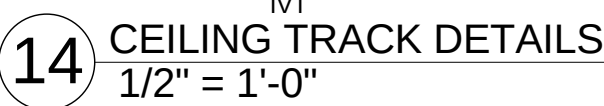
Down: 28 of 73

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Facilities
Management





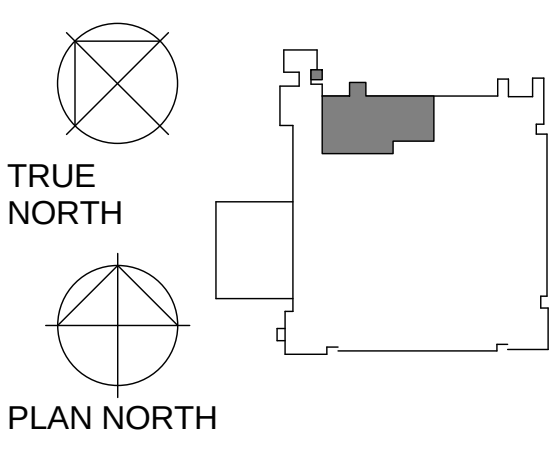
10 CEILING CCT & IV TRACKS
1 1/2" = 1'-0"



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NOTES:**

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INTERIOR DETAILS, CEILINGS

Project Title

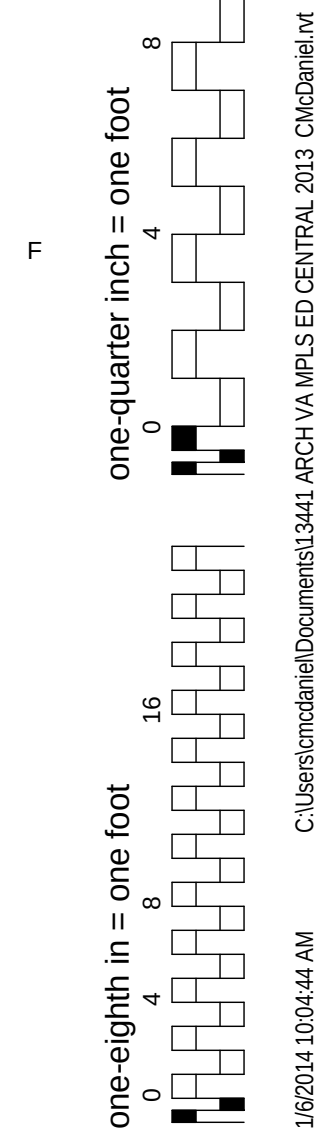
**VA MINNEAPOLIS ED
RENOVATION 13441**

Project Number
8-14-104

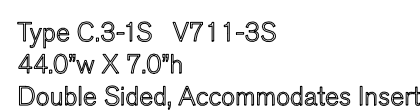
Filing Number
70

Office of
Facilities
Management

Department of
Veterans Affairs



Type A.6 F20F-ABB-
24.0"w X 43.75"h
Accommodates Insert



2 SIGNAGE TYPES

**GENERAL
NOTES:**

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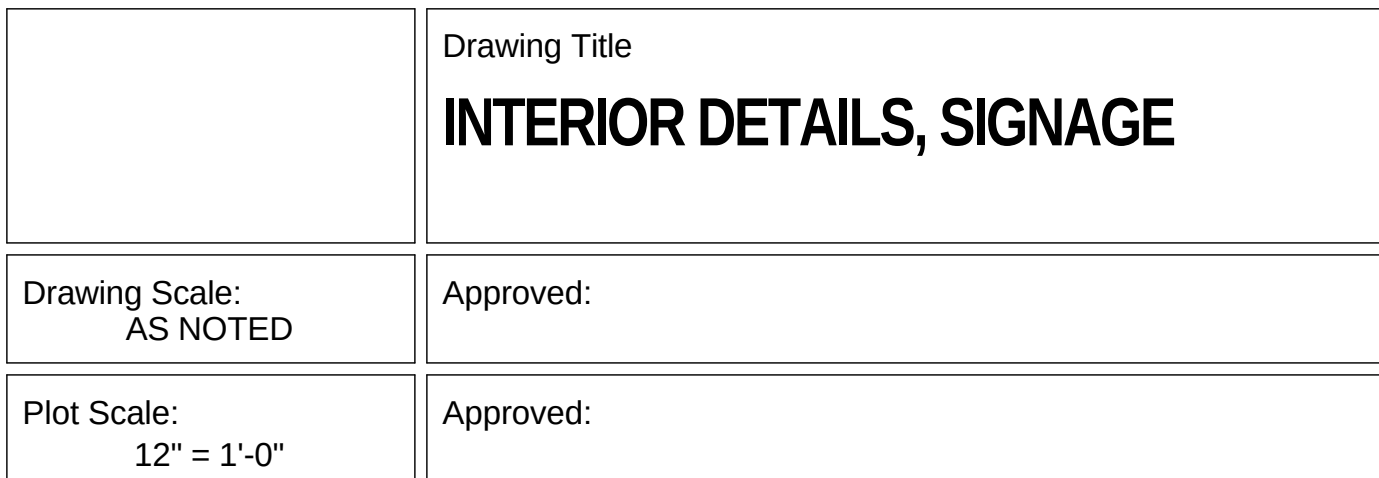
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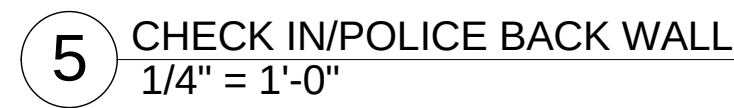
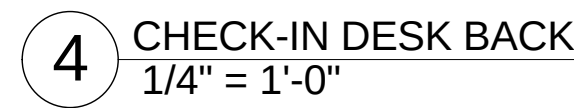
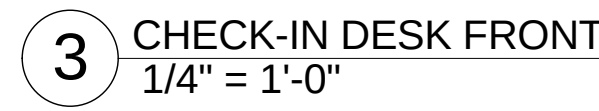
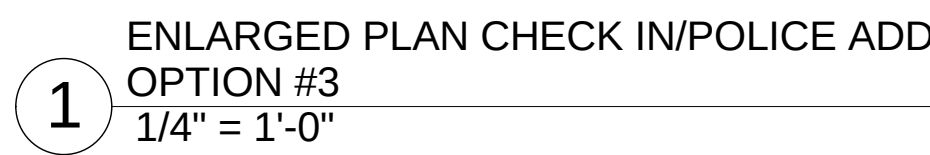
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**GENERAL
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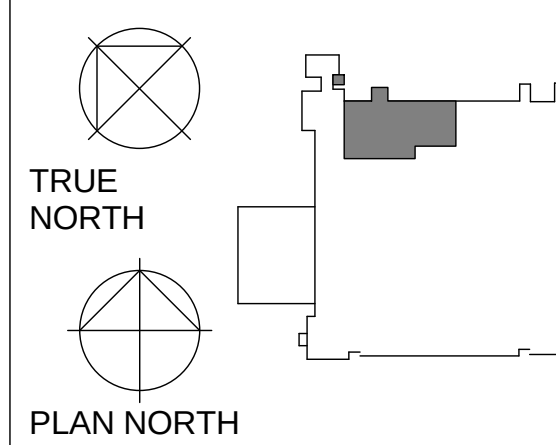


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ENLARGED PLANS AND ELEVATIONS ADD OPTIONS

Project Title	VA MINNEAPOLIS ED RENOVATION 13441
Location	ONE VETERANS DRIVE MINNEAPOLIS, MN 55417

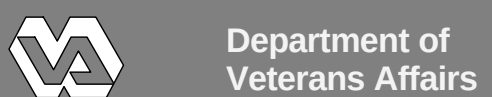
Project Number
618-14-104

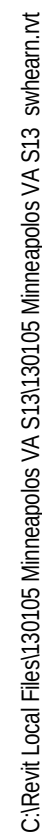
Building Number
70

Drawing Number
1272-70-AS27

Dwg. 31 of 73

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GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS AND DEBRIS FROM THE PROJECT SITE. THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE, FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. CATCHING AND REPAIR OF CONCRETE WALLS, FLOORS OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF THE WORK WILL BE MADE WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING, FLOORS, ANY AND ALL INTERIORS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE, CORE DRILLING THE HOLES FOR THE SUBCONTRACTOR. REMOVAL OF DEBRIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND FINISHES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL INCLUDE THE FINISHES BY THE VARIOUS SUBCONTRACTORS.

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

CONCRETE NOTES

1. PERFORM WORK IN ACCORDANCE WITH ACI 301-05 AND ACI 318-05.

2. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER (IN.)
CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH:	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
IG THRU ALL BARS:	2
#5 & SMALLER BARS:	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS AND WALLS:	3/4
BEAMS AND COLUMNS:	1 1/2

3. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.

4. PROVIDE LAP SPLICES AT ALL CORNERS AND INTERSECTIONS, SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

5. ALL HORIZONTAL WALL REINFORCING SHALL RUN CONTINUOUS THROUGH PIERS.

6. PROVIDE SUPPORTS AND SPACERS FOR ALL REINFORCING, INCLUDING WALLS.

7. SEE ARCHITECTURAL PLANS FOR DERESSED AND SLOPED AREAS IN FLOORS NOT SHOWN ON STRUCTURAL DRAWINGS.

8. ALL CONCRETE SHOW SHALL BE REINFORCED. PLANS, SECTIONS AND DETAILS SHOWING NO REINFORCEMENT ARE INTENDED TO SHOW DIMENSIONS AND DETAILS OF CONSTRUCTION ONLY. REINFORCEMENT OF THESE SECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL SHOWING REINFORCEMENT.

9. COORDINATE GROUNDING REQUIREMENTS BETWEEN FOUNDATION CONSTRUCTION AND ELECTRICAL WORK.

10. CONSOLIDATE ALL CONCRETE, INCLUDING SLABS, BY VIBRATING.

11. MIX DESIGNS SHALL INCORPORATE ADMIXTURES AS APPROPRIATE FOR ENVIRONMENTAL CONDITIONS.

12. ALL REINFORCING SHALL BE DETAIL, FABRICATED & PLACED IN ACCORDANCE WITH ACI SP-66 (04), ACI DETAILING MANUAL - 2004, AND CRSI MANUAL OR STANDARD PRACTICE.

13. CONCRETE SLABS SHALL NOT DEVIATE MORE THAN 1/8" IN FLATNESS IN ANY DIRECTION WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE.

14. COMPLETE SAWING OF ALL CONTROL JOINTS WITHIN 12 HOURS OF PLACEMENT OF CONCRETE AND CONTROL JOINTS SHALL BE AS INDICATED ON THE DRAWINGS.

15. JOINT SEALANT FOR INTERIOR SLABS SHALL BE POLYURETHANE, SELF-LEVELING; ASTM D920, CLASS 25, USE ITEM, M & A. UNLESS NOTED OTHERWISE.

16. ALL SLABS SHALL HAVE STEEL TROWEL FINISH EXTERIOR SURFACES TO BE BROOM FINISHED. SEE ARCHITECTURAL FOR SPECIAL FINISHES.

17. FORMED CONCRETE SURFACES SHALL BE SMOOTH-FORM FINISH. EXPOSED SURFACES SHALL BE SMOOTH-RUBBED FINISH.

- A. ALL STEEL DECK SHALL BE DESIGNED AND SELECTED IN ACCORDANCE WITH THE SDI DESIGN MANUAL NO. 30.
- B. STEEL DECK SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A1008 OR ASTM A653, GRADE 33 OR HIGHER (33 KSI YIELD STRENGTH).
- C. DECK ANCHORAGE SHALL BE MADE WITH 3/4" DIAMETER PUDDLE WELDS AT SUPPORTS AND EDGES AND WELDED SIDELAPS. FASTENER PATTERNS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - 1. 1 1/2" ROOF DECK: 36/4 PATTERN AT SUPPORTS AND 6" ON CENTER AT EDGES. PROVIDE (2) TWO SIDELAP FASTENERS PER DECK SPAN.
- D. ROOF DECK SHALL BE PAINTED TYPE B, WIDE RIB, DEPTH AND GAUGE AS INDICATED ON THE DRAWINGS.
- E. SUBMIT SHOP DRAWINGS FOR DECK PLACEMENT SHOWING DECK CHARACTERISTICS, ANCHORAGE DETAILS AND ACCESSORIES.

FASTENER NOTES

A. FASTENERS ARE BASED ON HILTI NORTH AMERICA. (1-800-879-8000, www.us.hilti.com) UNLESS NOTED OTHERWISE.

B. SUBSTITUTIONS WILL BE CONSIDERED PROVIDED CONTRACTOR SUPPLIES DATA WHICH SHOWS EQUIVALENT FASTENER CAPACITY. EMBEDMENT DEPTH, FASTENER SPACING AND EDGE DISTANCES MUST BE CONSIDERED.

C. FASTENER TYPES:

ADHESIVE ANCHOR IN HOLLOW CMU:	HIT HY70 W/SCREEN TUBE
ADHESIVE ANCHOR IN GROUTED CMU:	HIT HY70 W/HAS-E ROD
ADHESIVE ANCHOR IN CONCRETE:	HIT RE 500-SD W/HAS-E ROD
EXPANSION ANCHOR IN CONCRETE:	KWIK BOLT TZ
EXPANSION ANCHOR IN SOLID GROUT CMU:	KWIK BOLT 3
SLEEVE ANCHOR:	HLC SLEEVE ANCHOR
CONCRETE SCREW ANCHOR:	KWIK-CON II +
DROP IN ANCHORS:	MULTI-SET II, RX TYPE BY ITW RED HEAD

STRUCTURAL GENERAL NOTES

**VA EMERGENCY
DEPARTMENT REMODEL**

618-14-104

Building Number

70



 CIP WALL

1. SEE 1272-70-SS1 FOR GENERAL STRUCTURAL NOTES.
2. WORK THESE PLANS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3. SEE DETAIL 9/1272-70-SS3 FOR TYPICAL ANCHOR BOLT DETAIL.
4. SEE ARCHITECTURAL (1/1272-70-AS09) FOR LOCATION OF FLOOR RECESSES.
5. COLUMNS ARE CENTERED ON GRID LINES U.N.O.
6. PROVIDE 3-1/2" CIP CONCRETE EQUIP. PAD ON TOP OF EXISTING SLAB AT RECONSTRUCTION JOINTS. PROVIDE 4" MIN. FOR SIZE AND LOCATION. REINFORCE W/ #4 @ 12" O.C. E.W. CENTERED IN SLAB



1. SEE 1272-70-SS1 FOR GENERAL STRUCTURAL NOTES.
2. WORK THESE PLANS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3. INDICATES MOMENT CONNECTION, SEE 13/1272-70-SS3.



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Plot Scale:
12" = 1'-0"

Project Title		
VA EMERGENCY DEPARTMENT REMODEL		
Location ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	Checked	Drawn
01/02/2014	.	SWH

Project Number
618-14-104

Building Number
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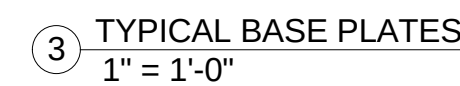
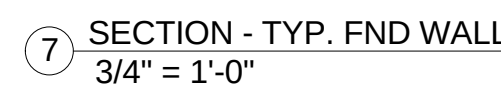
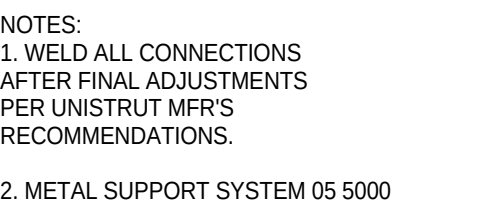
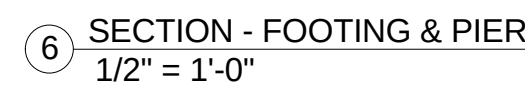
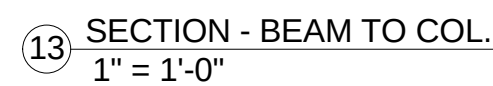
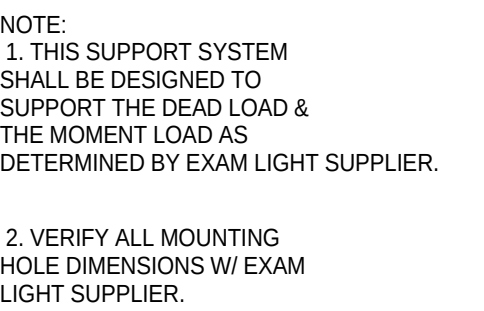
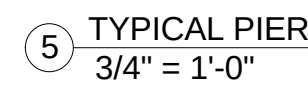
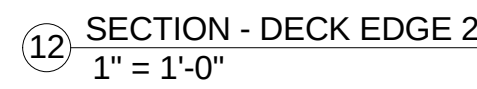
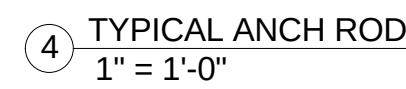
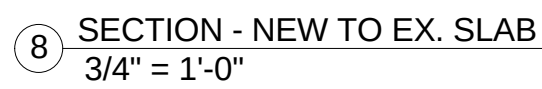
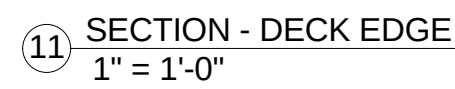
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Dwg. 33 of 73

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I hereby verify that this plan, specifications, or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota



Stephen W. Heam
Date: 01/02/2014 Reg. No. 2540

Drawing Title	SECTIONS AND DETAILS
Approved:	
Approved:	

Project Number
618-14-104

Building Number
70

Drawing Number
1272-70-SS3

Dwg. 34 of 73



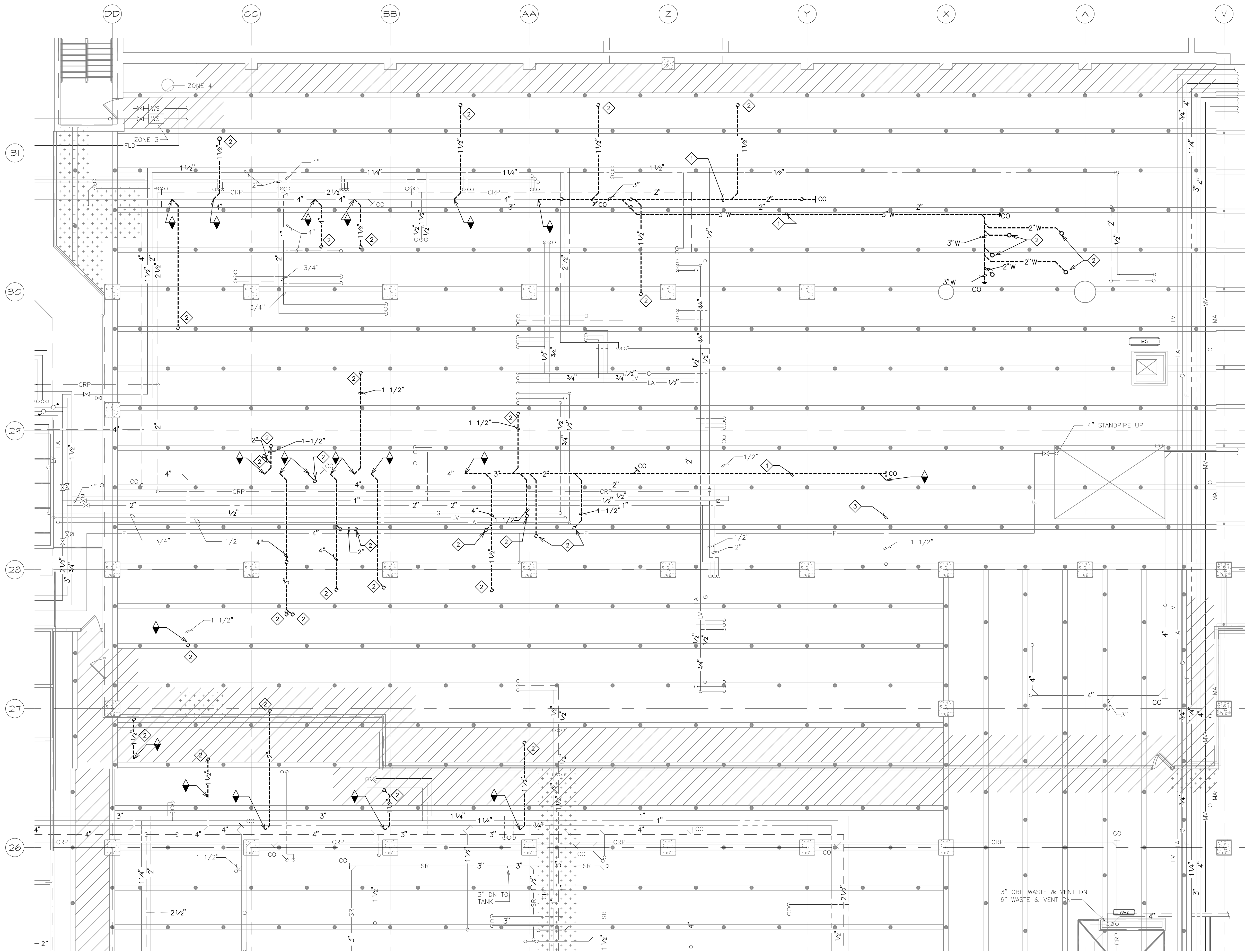
Office of
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Department of
Veterans Affairs

 REVISIONS		DATE	GENERAL NOTES: GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS; WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, AND CUTTING OF CONCRETE WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY THE TIME OF THE BEGINNING OF THESE OPERATIONS. THIS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.	 ANDERSON ENGINEERING ENGINEERING • ARCHITECTURE • LAND SURVEYING SUBCONTRACTOR SERVICES • LICENSED ARCHITECTS Anderson Engineering of Minnesota, LLC 19815 1st Avenue North Suite 100 Minneapolis, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	 DUNHAM ASSOCIATES ARCHITECTS • ENGINEERS • INTERIORS Dunham Associates, Inc. 90 South River Street, Suite 1100 Minneapolis, Minnesota 55401-1540 Phone: 612-465-7000 Fax: 612-465-7001 www.dunhaminc.com mechanical & electrical consulting engineering	 TRUE NORTH	 PLAN NORTH	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.  JASON GOTTWALT, PE Date: 01/02/2014 Reg. No. 41380	Drawing Title MECHANICAL TITLE SHEET	Project Title VA MINNEAPOLIS ED RENOVATION	Project No. 618-14-104	Building Number 70	Office of Facilities Management
 Plot Scale 12" = 1'-0"	Drawing Scale AS NOTED	Approved: Catherine Joyce, Chief, Projects Section	Location: ONE MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417	Date: 01/02/2014	Checked: JG	Drawn: RFLIN	DRAWING NO. 1272-70-M01 Dwg. 35 of 73	 Department of Veterans Affairs					

three-eighths inch = one foot
one and one-half inch = one foot
one inch = one foot
one-half inch = one foot
three-quarter inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-half inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot
one-eighth inch = one foot



1 BASEMENT INTERSTITIAL PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES:

- PLUMBING CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 PLUMBING DESIGN GUIDE. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULES WITH ADJACENT DEPARTMENTS AND CLEANING OF ALL DEBRIS AFTER EACH WORK SHIFT SHOULD BE ASSUMED IN THE BASE BID SCOPE.
- ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA HOSPITAL FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
- COORDINATE ALL NEW PLUMBING ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
- SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED, OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
- ALL CORE DRILLING OR ANY ACTIVITIES CAUSING EXTREME VIBRATION OR NOISE SHALL BE COORDINATED TO BE PERFORMED AFTER BUSINESS HOURS TO NOT AFFECT CRITICAL HOSPITAL FUNCTIONS WITHIN ADJACENT AREAS. COORDINATE WITH VAMC COR REPRESENTATIVE AS REQUIRED.
- ALL PLUMBING WORK PERFORMED ON THE FLOOR BELOW SHALL BE CLOSELY COORDINATED WITH VA HOSPITAL REPRESENTATIVE. CRITICAL AREAS THAT MAY BE ADVERSELY IMPACTED BY NOISE OR VIBRATIONS MAY BE REQUESTED TO BE PERFORMED AFTER REGULAR BUSINESS HOURS OR ON WEEKENDS. CONTRACTOR TO NOTE THAT ANY AREA OUTSIDE THE CONSTRUCTION LIMITS SHALL BE CLEANED TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF EACH WORK SHIFT.
- FIELD VERIFY EXISTING WATER, WASTE, VENT, OR OTHER PIPING SYSTEMS FOR CONNECTIONS TO FIXTURES THAT MAY NOT BE IDENTIFIED ON PLANS PRIOR TO SERVICE OUTAGES, DEMOLITION, OR ALTERATIONS OF EXISTING PIPE ROUTING. COORDINATE UNKNOWN SERVICE WITH VAMC FACILITIES AND ENGINEER OF RECORD.
- THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
- ALL CONTRACTORS TO REFERENCE THE INFECTION CONTROL NOTES IDENTIFIED WITHIN THE VENTILATION GENERAL NOTES ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

KEY NOTES:

- DEMOLISH WASTE BACK TO 4" MAIN AND EXTEND NEW 4" MAIN TO NEW FIXTURES.
- DEMOLISH WASTE FROM FIXTURE BACK TO MAIN AND CAP.
- EXISTING WASTE SERVING FIXTURE TO REMAIN. RECONNECT WASTE TO NEW WASTE MAIN.

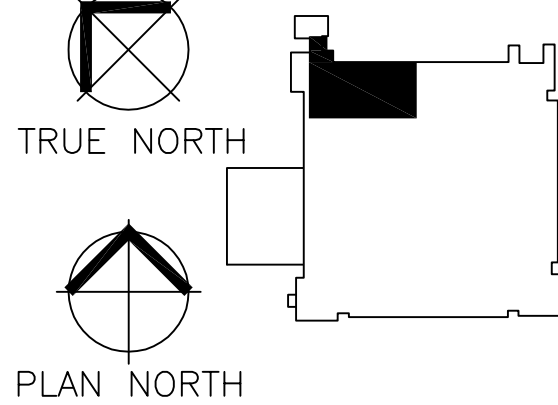
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GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

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consulting engineering



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.
JASON COTTWALT, PE
Date 01/02/2014 Reg. No. 41360

Drawing Scale
AS NOTED
Plot Scale
12" = 1'-0"

Drawing Title
BASEMENT INTERSTITIAL PLUMBING DEMOLITION PLAN

Approved: Catherine Joyce, Chief, Projects Section

Approved: Steven Challeen, Director, Facilities Engineering

Project Title
VA MINNEAPOLIS ED RENOVATION

Location
**V.A. MEDICAL CENTER
ONE VETERANS DRIVE
MINNEAPOLIS, MN 55417**

Date
01/02/2014

Checked
JG

Drawn
RFOLIN

Project No.
618-14-104

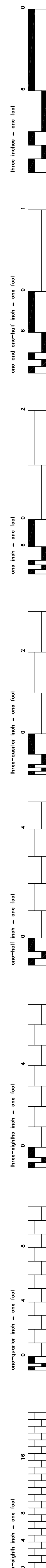
Building Number
70

DRAWING NO.
1272-70-PL01
Dwg. 36 of 73

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Management

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Veterans Affairs



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- B. PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULING WITH ALL CLIENT DEPARTMENTS AND CLEANING OF ALL DEBRIS AFTER EACH WORK SHIFT SHOULD BE ASSUMED IN THE BASE BID SCOPE.
- C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA HOSPITAL FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
- D. COORDINATE ALL NEW PLUMBING ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- E. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE EXISTING APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
- F. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- G. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED EQUIPMENT AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- H. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPED PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED, OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
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- M. ALL CONTRACTORS TO REFERENCE THE INFECTION CONTROL NOTES IDENTIFIED WITHIN THE VENTILATION GENERAL NOTES ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

- ⑤ DEMOLISH EXISTING SINK AND ASSOCIATED VENT, COLD WATER, HOT WATER, AND WASTE BACK TO PIPE MAINS.
- ⑤ DEMOLISH EXISTING MOP SINK AND ASSOCIATED VENT, COLD WATER, HOT WATER, AND WASTE BACK TO PIPE MAINS.
- ⑤ DEMOLISH EXISTING DRINKING FOUNTAIN AND ASSOCIATED VENT, COLD WATER, AND WASTE BACK TO PIPE MAINS.
- ⑤ DEMOLISH EXISTING FLOOR DRAIN AND ICE MACHINE. PATCH AN REPAIR FLOOR TO MATCH SURROUNDING HEIGHT. DEMOLISH ASSOCIATED COLD WATER, WASTE, AND VENT BACK TO MAINS AND CAP.
- ⑤ DEMOLISH EXISTING TOILET AND ASSOCIATED VENT, COLD WATER, AND WASTE BACK TO PIPE MAINS.
- ⑤ DEMOLISH EXISTING FLOOR DRAIN. PATCH AND REPAIR FLOOR.
- ⑤ DEMOLISH EXISTING COLD WATER DRAPS TO COFFEE EQUIPMENT.
- ⑤ EXISTING WALL HOSE BIBB TO REMAIN.
- ⑤ DEMOLISH EXISTING FIRE VALVE CABINET.
- ⑤ INSTALL FIXTURES FOR PHASE 1A. MODIFY EXISTING ROUGH-IN FOR HOT WATER, COLD WATER, VENT, AND WASTE. CONSULT VA FOR ALL SHOP DRAWINGS. ALL FIXTURES WITH HEADS TO BE NOT AVAILABLE, SUPPLY AND INSTALL P-8E AND P-14E. REUSE FIXTURES P-8E AND P-14E AFTER PHASE 1A FOR NEW CONSTRUCTION. DEMOLISH HOT WATER, COLD WATER, VENT, AND WASTE BACK TO MAIN AND CAP UPON COMPLETION OF PHASE 1A.
- ⑤ FIRE PROTECTION CONTRACTOR SHALL REMOVE ALL EXISTING SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY LIMITS. INSTALL TEMPORARY UPRIGHT HEADS THROUGHOUT THE ENTIRE AREA. COORDINATE WITH THE PROJECT ARCHITECT AND PROJECT WITH PROJECT PHASING. CONTRACTOR SHALL ALSO PROVIDE SOME ALLOWANCE FOR SPRINKLER HEAD ADJUSTMENTS BASED ON NEW WALLS, OR MECHANICAL SYSTEMS, INSTALLATIONS THAT OCCUR DURING CONSTRUCTION THAT MAY BECOME OBSTACLES THAT PREVENT FULL COVERAGE FROM THESE TEMPORARY UPRIGHT HEADS. OR MECHANICAL SYSTEMS, INSTALLATIONS THAT OCCUR DURING CONSTRUCTION THAT MAY BECOME OBSTACLES THAT PREVENT FULL COVERAGE FROM THESE TEMPORARY UPRIGHT HEADS. CONTRACTOR SHALL INDICATE EACH CONSTRUCTION BARRIER ENTRY POINT TO CLEARLY INDICATE ALL SPRINKLER PIPING IS ACTIVE, AND APPROPRIATE CAUTION SHALL BE APPLIED. CONTRACTOR NEW RELOCATION OF SPRINKLER PIPING SHALL BE PLANNED DURING EACH SCHEDULED OUTAGE FOR FINAL CEILING HEAD INSTALLATION NEAR END OF PROJECT SCHEDULE.
- ⑤ DEMOLISH EXISTING SAFE ROOM SECURITY STYLE SINK AND ASSOCIATED HOT WATER, COLD WATER, WASTE, AND VENT BACK TO MAINS AND CAP.

①

GENERAL
NOTES:

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIERCELY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE SAME. NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

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Drawing Scale
AS NOTED
Plot Scale
12" = 1'-0"

Approved: Catherine Joyce, Chief, Projects Section

Approved: Steven Challeen, Director, Facilities Engineering

Location	V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS MN 55417
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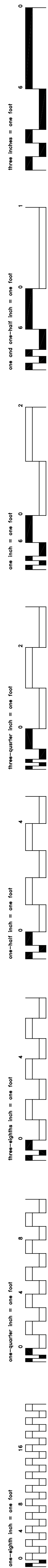
Date	01/02/2014	Checked	JG	Drawn	REQUIN
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DRAWING NO.
1272-70-PL02
Dwg. **37** of **73**

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- M. THE CONTRACTOR TO REFERENCE THE INFECTION CONTROL NOTES IDENTIFIED WITHIN THE VENTILATION REQUIREMENTS ON THESE DRAWINGS. CONFORM TO ALL ICRG REQUIREMENTS.

1	DEMOLISH EXISTING PIPES FROM FIXTURE BACK TO MAINS AND CAP.
2	DEMOLISH EXISTING PIPES SERVING KITCHEN EQUIPMENT BACK TO MAINS AND CAP.
3	DEMOLISH EXISTING SPRINKLER PIPE FROM FIRE VALVE CABINET BACK TO MAIN CAP.

		
REVISIONS		DATE

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIEREFLY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE SAME. NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

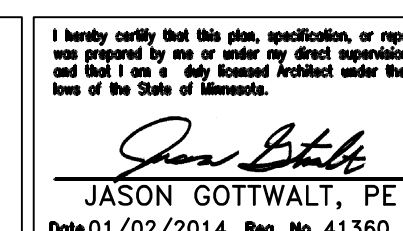
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Drawing Title	FIRST FLOOR INTERSTITIAL PLUMBING DEMOLITION PLAN
	Approved: Catherine Joyce, Chief, Projects Section

Project Title	VA MINNEAPOLIS ED RENOVATION		
Location	V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	01/02/2014	Checked IG	Drawn REQUIN

Project No.	618-14-104
Building Number	70
DRAWING NO.	1272-70-PL03
Dwg. No.	38 of 73

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Veterans Affairs



BID NOTES:

A. FOR BID OPTION #7 PROVIDE PRICE TO SUBSTITUTE FIXTURE P-1B FOR P-1A.

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KEY NOTES:

- 1/2" COLD WATER DOWN TO ICE MAKER WITH RPZ. INSTALL FILTER AND RPZ ON WALL BELOW ICE MAKER. INSTALL 2" STANDPIPE UNDER COUNTER. 1-1/2" VENT UP AND 2" WASTE DOWN. FILTER TO BE #10 BLUE VIB WITH PRESSURE RELEASE. CONTACT VA PLUMBING SHOP FOR MORE DETAILS IF NEEDED.
- 1/2" HOT WATER, 1/2" COLD WATER, AND 1-1/2" VENT DOWN TO SINK. 1-1/2" WASTE DOWN.
- 3/4" HOT WATER, 3/4" COLD WATER, AND 1-1/2" VENT DOWN TO SHOWER. 2" WASTE DOWN.
- 1-1/2" COLD WATER DOWN, AND 2" VENT DOWN TO TOILET. 4" WASTE DOWN.
- 3/4" HOT WATER, 3/4" COLD WATER, AND 1-1/2" VENT DOWN TO SOILED UTILITY SINK. 2" WASTE DOWN.
- 3/4" HOT WATER, 3/4" COLD WATER, AND 2" VENT DOWN TO BACK TO BACK SINKS. 2" WASTE DOWN.
- 3/4" HOT WATER, 3/4" COLD WATER, AND 1-1/2" VENT DOWN TO MOP SINK. 2" WASTE DOWN.
- 3/4" HOT WATER DOWN TO RPZ MOUNTED ON WALL. 3/4" COLD WATER DOWN TO RPZ MOUNTED ON WALL. 3/4" NON-POTABLE COLD AND 3/4" NON-POTABLE HOT WATER TO TMV-4. 1" NON-POTABLE WATER UP TO INTERSTITIAL SPACE ABOVE. ROUTE RPZ WASTE TO MOP SINK. LABEL MIXING VALVE NON-POTABLE AND LIST ROOMS NON-POTABLE TEMPERED WATER SERVES.
- 1" NON-POTABLE WATER LOOP DOWN TO DIALYSIS BOX. ROUTE LOOP TO WITHIN 6" OF DIALYSIS BOX. TO LIMIT DEAD LEG PIPING. REFER TO DETAIL M1272-70-M05/11 FOR PIPING DETAIL. FULLY INSULATE PIPING. 1/2" NON-POTABLE TEPID WATER DOWN TO TRAP PRIMER/FLUSH CONNECTION. 1-1/2" VENT UP.
- SEE SHEET 1272-70-M02 FOR ENLARGED DECONTAMINATION ROOM PLANS. INCLUDE ALL WORK RELATED TO DECONTAMINATION ROOM AS PART OF BID OPTION #2.
- 1" NON-POTABLE WATER LOOP DOWN TO DIALYSIS BOX. ROUTE LOOP TO WITHIN 6" OF DIALYSIS BOX. TO LIMIT DEAD LEG PIPING. REFER TO DETAIL M1272-70-M05/11 FOR PIPING DETAIL. FULLY INSULATE PIPING. 1/2" NON-POTABLE TEPID WATER DOWN TO TRAP PRIMER/FLUSH CONNECTION. 1-1/2" VENT UP. INCLUDE ALL WORK RELATED TO THIS DIALYSIS BOX AS PART OF BID OPTION #3.
- COORDINATE HOT WATER, COLD WATER, AND VENT PIPING WITH WINDOW AND ASSOCIATED FRAMING VENT TO NOT EXCEED 45" FROM THE VERTICAL. UNTIL IT HAS RISEN A MINIMUM OF 6" ABOVE THE FIXTURE SPILL LINE. COORDINATE ALL TRADES TO INSURE PROPER FIXTURE MOUNTING HEIGHT AND PROPER VENT ROUTING.

1 FIRST FLOOR PLUMBING PLAN 1/8" = 1'-0"

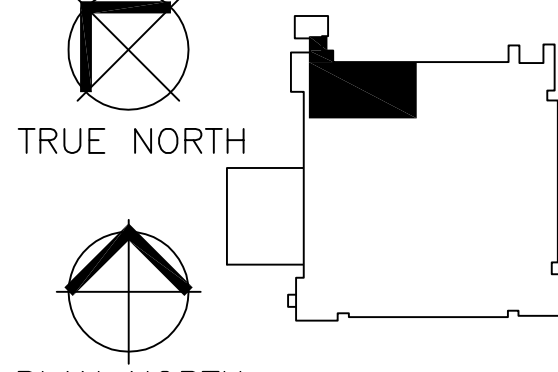
GENERAL NOTES:

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
JASON COTTWALT, P.E.
Date 01/02/2014 Reg. No. 41360
Drawing Scale
AS NOTED
Plot Scale
12" = 1'-0"

Drawing Title
FIRST FLOOR PLUMBING PLAN
Approved: Catherine Joyce, Chief, Projects Section
Approved: Steven Challeen, Director, Facilities Engineering

Project Title
VA MINNEAPOLIS ED RENOVATION
Location
**V.A. MEDICAL CENTER
ONE VETERANS BLVD
MINNEAPOLIS, MN 55417**
Date
01/02/2014
Checked
JG
Drawn
RFLIN

Project No.
618-14-104
Building Number
70
DRAWING NO.
1272-70-PL05
Dwg. **40 of 73**

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Office of
Facilities
Management
Department of
Veterans Affairs



- 1/2" HOT WATER, 1/2" COLD WATER, and 1-1/2" VENT DOWN TO HAND WASHING SINK.
- 1/2" HOT WATER, 1/2" COLD WATER, and 1-1/2" VENT DOWN TO HAND SOILED UTILITY SINK.
- 1/2" HOT WATER, 1/2" COLD WATER, and 1-1/2" VENT DOWN TO SHOWER.
- 1-1/2" COLD WATER, and 2" VENT DOWN TO TOILET.
- 3/4" HOT WATER, 3/4" COLD WATER, and 2" VENT DOWN TO BACK TO BACK SINKS.
- 1/2" COLD WATER DOWN TO ICE MAKER. 1-1/2" VENT DOWN TO STANDPIPE.
- 1/2" COLD WATER DOWN TO DUAL DRINKING FOUNTAIN.
- 3/4" HOT WATER, 3/4" COLD WATER, and 2" VENT DOWN TO MOP SINK.
- INSTALL NEW BALANCING VALVE, BALANCE TO 0.5 GPM.
- 1/2" HOT WATER, 1/2" COLD WATER, and 1-1/4" VENT DOWN TO SAFE ROOM HAND WASHING SINK.
- HOT WATER, COLD WATER AND RECIRCULATING HOT WATER OUT TO DECONTAMINATION ROOM.
- ROUTE PIPING HIGH OVER WALKWAY.
- 3/4" HOT WATER AND 3/4" COLD WATER DOWN TO RP2'S.
- 1" NON-POTABLE TEMPERED WATER FROM MIXING VALVE BELOW. FULLY INSULATE PIPE. LABEL PIPE NON-POTABLE.
- 1" NON-POTABLE TEMPERED WATER LOOP DOWN TO DIALYSIS BOX BELOW. SEE DETAIL 1272-70-M05/11.
- PROVIDE 3/4" SOLENOID VALVE WITH OPEN/CLOSE COMMAND FROM CENTRAL AUTOMATION SYSTEM AND BUTTON LOCATED IN NURSING STATION. ONCE OPEN, THIS SOLENOID SHALL PROVIDE WATER FLOW TO ALL TRAP FLUSHING CONNECTIONS TO EACH DIALYSIS BOX. REFER TO DETAIL M1272-70-M05/11. TRAP PRIMER/FLUSH SYSTEM SHALL ALSO SERVE TO KEEP LINE CIRCULATED ON A REGULAR BASIS.
- PROVIDE 1/2" CIRCUIT SETTER BALANCING VALVE TO EACH TRAP PRIMER/FLUSH CONNECTION. BALANCE EACH VALVE TO APPROXIMATELY 1.0 GPM TO EACH INDIVIDUAL TRAP WHEN SOLENOID VALVE IS FULLY OPEN.
- INSTALL SHUT-OFF SOLENOID VALVE. VALVES TO BE NORMALLY OPEN AND FAIL OPEN. SOLENOID VALVES TO BE CONTROLLED BY KEYED SWITCH.
- 1" NON-POTABLE TEMPERED WATER LOOP DOWN TO DIALYSIS BOX BELOW. SEE DETAIL 1272-70-M05/11. INCLUDE WORK RELATED TO THIS BOX AS PART OF BID OPTION #9.
- PROVIDE 1/2" CIRCUIT SETTER BALANCING VALVE TO EACH TRAP PRIMER/FLUSH CONNECTION. BALANCE EACH VALVE TO APPROXIMATELY 1.0 GPM TO EACH INDIVIDUAL TRAP WHEN SOLENOID VALVE IS FULLY OPEN. SEE DETAIL 1272-70-M05/11. INCLUDE WORK RELATED TO THIS BOX AS PART OF BID OPTION #9.
- 1/2" HOT WATER, 1/2" COLD WATER, and 1-1/2" VENT DOWN TO KITCHEN SINK.

- A. PLUMBING CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 PLUMBING DESIGN GUIDE. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- B. PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO STOP FROM WORKING IN THESE AREAS. THE CONTRACTOR SHALL BE SCHEDULED WITH ADJACENT DEPARTMENTS AND CLEANING OF ALL DEBRIS AROUND EACH WORK SHIFT SHOULD BE ASSUMED IN THE BASE BID SCOPE.
- C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA HOSPITAL FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS ADVANCE NOTICE OF ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
- D. COORDINATE ALL NEW PLUMBING ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR REVIEW OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- E. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
- F. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- G. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- H. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED, OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
- I. ALL CORE DRILLING OR ANY ACTIVITIES CAUSING EXTREME VIBRATION OR NOISE SHALL BE COORDINATED TO BE PERFORMED AFTER BUSINESS HOURS OR ON WEEKENDS. COORDINATE WITH ALL FUNCTIONS WITHIN ADJACENT AREAS. COORDINATE WITH VA REPRESENTATIVE AS REQUIRED.
- J. ALL PLUMBING WORK PERFORMED ON THE FLOOR BELOW SHALL BE CLOSELY COORDINATED WITH VA HOSPITAL REPRESENTATIVE. CRITICAL AREAS THAT MAY BE ADVERSELY IMPACTED BY NOISE OR VIBRATIONS MAY BE REQUESTED TO BE PERFORMED AFTER REGULAR BUSINESS HOURS OR ON WEEKENDS. CONTRACTOR TO NOTE THAT ANY AREA OUTSIDE THE CONSTRUCTION LIMITS SHALL BE CLEANED TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF EACH WORK SHIFT.
- K. FIELD VERIFY EXISTING WATER, WASTE, VENT, OR OTHER PIPING SYSTEMS FOR CONNECTIONS TO FIXTURES THAT MAY NOT BE IDENTIFIED IN THE PLUMBING RECORD. CORRECT ANY MISIDENTIFICATION, OR ALTERATIONS OF EXISTING PIPE ROUTING. COORDINATE UNKNOWN SERVICE WITH VAMC FACILITIES AND ENGINEER OF RECORD.
- L. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
- M. ALL CONTRACTORS TO REFERENCE THE INFECTION CONTROL NOTES IDENTIFIED IN THE ARCHITECTURAL DRAWINGS ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS; WHERE VARIATIONS ARE FOUND TO OCCUR THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DISCREPANCIES DURING CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE COVERAGE. THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE, FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE TRADES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE. THIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED IN THIS SPACE.

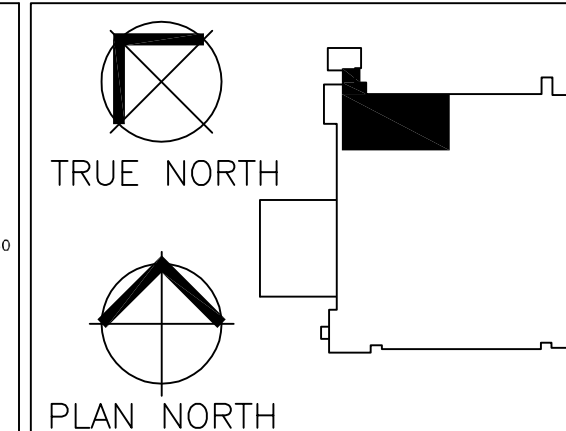
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consulting engineering**



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.


JASON GOTTWALT, PE
Date 01/02/2014 Reg. No. 41360

Drawing Scale	AS NOTED
Plot Scale	12" = 1'-0"

K	Drawing Title FIRST FLOOR INTERSTITIAL PLUMBING PLAN
	Approved: Catherine Joyce, Chief, Projects Section
	Approved: Steven Challeen, Director, Facilities Engineering

Project Title	VA MINNEAPOLIS ED RENOVATION		
Location	V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417		
Date	06/02/2004	Checked	Drawn
		JG	REOLIN

Project No.
618-14-104

Building Number
70

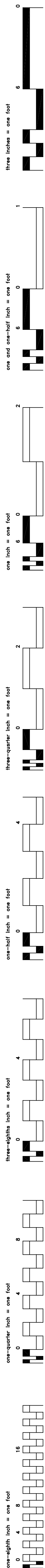
DRAWING NO.
1272-70-PL06

Dwg. **41** of **73**

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Office of
Facilities
Management

 Department of
Veterans Affairs



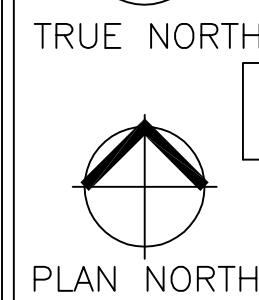
①

- A. MECHANICAL CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 HVAC DESIGN GUIDE. ALL REQUIREMENTS AND SPECIFICATIONS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THE DOCUMENTATION SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- B. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULES WITH ADJACENT DEPARTMENTS AND CLEARING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BASE BID.
- C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA HOSPITAL FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
- D. COORDINATE ALL NEW MEDICAL GAS PIPE ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL, PLUMBING, AND SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS FOR A CLEAN INSTALLATION. PIPING SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
- E. PROVIDE LOCKABLE ISOLATION VALVES AT RISER TAKE-OFFS IF REQUIRED TO MINIMIZE OUTAGES BETWEEN PROJECT PHASES. COORDINATE ANY ADDITIONAL ISOLATION VALVES WITH THE ENGINEER OF RECORD TO REVIEW WITH HOSPITAL FACILITIES FOR APPROVAL.
- F. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
- G. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- H. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ALL DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- I. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
- J. CLEARLY LABEL ALL NEW MEDICAL GAS PIPES AS DIRECTED WITHIN THE SPECIFICATIONS. ALL NEW PIPING ENCOUNTERED THAT IS NOT CURRENTLY IDENTIFIED SHALL BE LABELED ACCORDINGLY.
- K. ALL BRAZERS SHALL BE FULLY CERTIFIED WITH BRAZER QUALIFICATION RECORDS FOR INSTALLATION OF MEDICAL GAS SYSTEMS. REFER TO SPECIFICATION REQUIREMENTS.
- L. CLEAN ALL PIPING AND COMPONENTS AS OUTLINED WITHIN SPECIFICATION REQUIREMENTS. BLOW DOWN ALL COMPLETED SYSTEMS WITH DRY NITROGEN AND PERFORM ALL INITIAL PRESSURE TESTS AS REQUIRED PER NFPA 99.
- M. UPON COMPLETION OF WORK AND AS REQUIRED BY PROJECT PHASE THE MECHANICAL CONTRACTOR SHALL HIRE A THIRD PARTY CONTRACTOR TO CERTIFY ALL NEW GAS PIPING SYSTEMS AS OUTLINED WITHIN NFPA 99 AND NFPA 950 REPAIR AND MEDICAL GAS INLETS/OUTLETS AFFECTED BY THE MEDICAL GAS SERVICE OUTAGE. PROVIDE FINAL CERTIFICATION REPORT TO BE INCLUDED WITHIN THE OPERATION AND MAINTENANCE MANUALS FOR THIS PROJECT.
- N. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
- O. ALL CONTRACTORS TO BE REQUESTING THE INSPECTION CONTROL NOTES TO BE IDENTIFIED WITHIN THE VENTILATION GENERAL NOTES ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

- ① DEMOLISH EXISTING MEDICAL GAS AND VACUUM OUTLETS. COORDINATE DEMOLITION WITH PHASING PLAN.
- ② DEMOLISH EXISTING MEDICAL GAS ALARM PANEL. ALARM PANEL TO REMAIN IN USE THROUGH PHASE 1.
- ③ DEMOLISH EXISTING MEDICAL GAS VALVE BOX. COORDINATE OUTLET WITH FACILITIES AND NURSING STAFF TO PROVIDE APPROPRIATE TEMPORARY SERVICES. REFER TO GENERAL NOTES. MEDICAL GAS VALVE BOX TO REMAIN IN OPERATION FOR PHASE 1.

GENERAL
NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. ANY DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONDUIT. THE REMOVING OF THE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL WORK SHALL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.



Drawing Scale	AS NOTED
Plot Scale	12" = 1'-0"

**FIRST FLOOR MEDICAL GAS
DEMOLITION PLAN**

Approved: Catherine Joyce, Chief, Projects Section

Project Title			
VA MINNEAPOLIS ED RENOVATION			
Location			
V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417			
Date	Checked	Drawn	
01/02/2004	JG	RFOUIN	

Project No.
618-14-104

Building Number
70

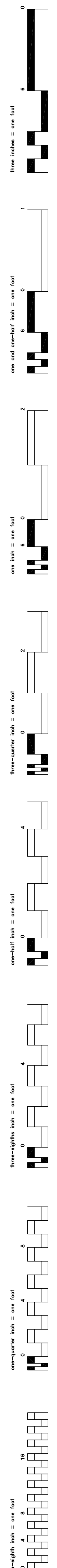
DRAWING NO.
1272-70-M

Dwg. **42** of 7

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Office of
Facilities
Management

 Department of
Veterans Affairs



A. MECHANICAL CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 HVAC DESIGN GUIDE. ALL REQUIREMENTS OF THE MASTER SPECIFICATION SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DISCREPANCIES INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THESE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.

B. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION ZONE TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED.

C. COORDINATION OF CONFLICTS WITH ALL OTHER DEPARTMENTS AND CLEANING OF ALL DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BASE BID.

C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSTAL DISRUPTION. VA VA HOTEL FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.

D. COORDINATE ALL NEW MEDICAL GAS PIPE ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, AIR CURTAINS, SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS FOR A CLEAN INSTALLATION. PIPING SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.

E. PROVIDE LOCKABLE ISOLATION VALVES AT RISER TAKE-OFFS IF REQUIRED TO MINIMIZE OUTAGES BETWEEN PROJECT PHASES. COORDINATE ANY ADDITIONAL ISOLATION VALVES WITH THE ENGINEER OF RECORD TO REVIEW WITH HOSTAL FACILITIES FOR APPROVAL.

F. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.

G. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.

H. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ALL DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.

I. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.

J. CLEARLY LABEL ALL NEW MEDICAL GAS PIPES AS DIRECTED WITHIN THE SPECIFICATIONS. ALL NEW PIPING ENCOUNTERED THAT IS NOT CURRENTLY IDENTIFIED SHALL BE LABELED ACCORDINGLY.

K. ALL BRAZERS SHALL BE FULLY CERTIFIED WITH BRAZER QUALIFICATION RECORDS FOR INSTALLATION OF MEDICAL GAS SYSTEMS. REFER TO SPECIFICATION REQUIREMENTS.

L. CLEAN ALL PIPING AND COMPONENTS AS OUTLINED WITHIN SPECIFICATION PRIOR TO INSTALLATION. BLOW DOWN ALL COMPLETED SYSTEMS WITH DRY NITROGEN AND PERFORM ALL INITIAL PRESSURE TESTS AS REQUIRED PER NFPA 99.

M. UPON COMPLETION OF WORK AND AS REQUIRED BY PROJECT PHASING THE MECHANICAL CONTRACTOR SHALL HAVE A THIRD PARTY CONTRACT TO CERTIFY ALL NEW GAS PIPING SYSTEMS ARE OUTLINED WITHIN NFPA 99. PROVIDE AND MAINTAIN ALL MEDICAL GAS INLETS/OUTLETS AFFECTED BY THE MEDICAL GAS SERVICE OUTAGE. PROVIDE FINAL CERTIFICATION REPORT TO THE ENGINEER OF RECORD FOR OPERATION AND MAINTENANCE MANUALS FOR THIS PROJECT.

N. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.

O. ALL CONTRACTORS TO REFERENCE THE INFECTION CONTROL NOTES IDENTIFIED WITHIN THE VENTILATION GENERAL NOTES ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

1 DEMOLISH MEDICAL GAS PIPING BACK TO MAIN IN MECHANICAL ROOM. VALVE AND CAP FOR FUTURE. THIS PORTION OF WORK WILL CREATE A MEDICAL GAS OUTAGE FOR ALL FLOORS IN THIS QUADRANT OF THE HOSPITAL. REFER TO THE GENERAL NOTES TO PLAN APPROPRIATELY FOR THIS OUTAGE.

2 DEMOLISH MEDICAL GASES SERVING OUTLETS DEMOLISHED IN PHASE 1. INSTALL PIPE CAPS AND RE-CERTIFY OUTLETS TO REMAIN IN OPERATION DURING PHASE 1. COORDINATE WITH FINAL PHASING PLAN.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHEN VARIATIONS ARE FOUND TO OCCUR, THE GENERAL CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

Drawing Title	FIRST FLOOR INTERSTITIAL MEDICAL GAS DEMOLITION PLAN
Approved: Catherine Joyce, Chief, Projects Section	
Approved: Steven Challeen, Director, Facilities Engineering	

Project No.
618-14-104

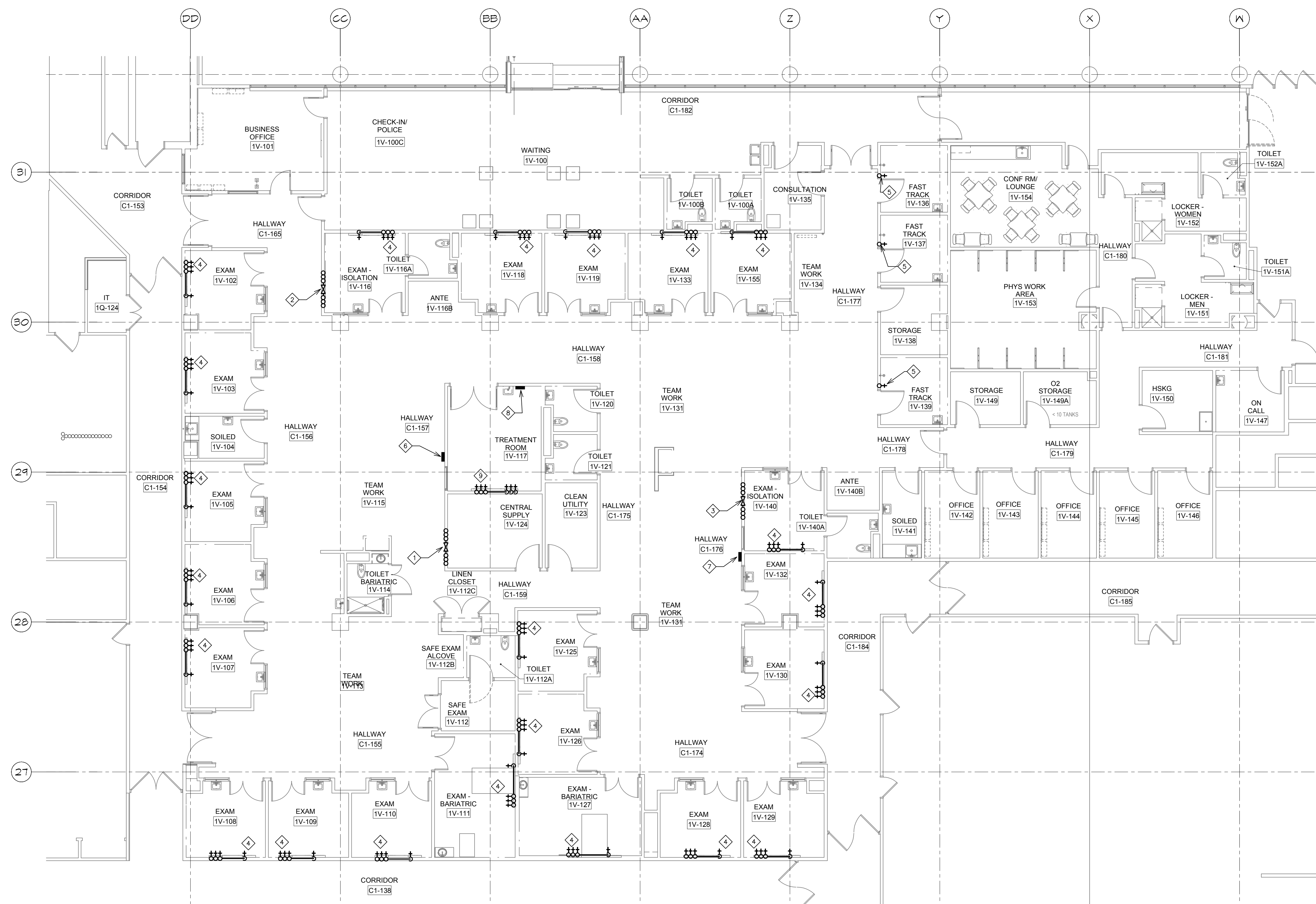
Building Number
70

DRAWING NO.
1272-70-MG02
Dwg. **43** Of **73**

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Office of
Facilities
Management

 Department of
Veterans Affairs



① FIRST FLOOR MEDICAL GAS PLAN
1/8"=1'-0"

- ## GENERAL NOTES:
- A. MECHANICAL CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 HVAC DESIGN GUIDE. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE DISTINGUISHED IN ADDITION TO THE NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - B. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE TO REVIEW ACCESSIBILITY TO AREAS OUTSIDE THE CONSTRUCTION LIMITS TO DETERMINE APPROXIMATE AMOUNT OF OVERTIME REQUIRED TO PERFORM ALL MECHANICAL WORK INDICATED. COORDINATION OF SCHEDULES WITH ADJACENT DEPARTMENTS AND CLEANING OF DEBRIS AFTER EACH SHIFT SHOULD BE ASSUMED IN THE BASE BID.
 - C. ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA POLICY IS TO SCHEDULE AND ENSURE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
 - D. COORDINATE ALL NEW MEDICAL GAS PIPE ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS FOR A CLEAN INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE, UNLESS SPECIFICALLY NOTED OTHERWISE.
 - E. PROVIDE LOCKABLE ISOLATION VALVES AT RISER TAKE-OFFS IF REQUIRED TO MINIMIZE OUTAGES BETWEEN PROJECT PHASES. COORDINATE ANY ADDITIONAL ISOLATION VALVES WITH THE ENGINEER OF RECORD TO REVIEW WITH HOSPITAL FACILITIES FOR APPROVAL.
 - F. THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
 - G. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
 - H. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - I. ALL EXISTING PIPING THROUGH NEW FIRE RATED WALLS SHALL BE ADEQUATELY FIRE SEALED AS REQUIRED. PIPING PENETRATIONS THROUGH INTERSTITIAL FLOOR SHALL BE DRILLED, OR CUT, BY THE CONTRACTOR AND FIRE SEALED AS REQUIRED.
 - J. CLEARLY LABEL ALL NEW MEDICAL GAS PIPES AS DIRECTED WITHIN THE SPECIFICATIONS. ANY NEW PIPING ENCOUNTERED THAT IS NOT CURRENTLY IDENTIFIED SHALL BE LABELED ACCORDINGLY.
 - K. ALL BRAZERS SHALL BE FULLY CERTIFIED WITH BRAZER QUALIFICATION RECORDS FOR INSTALLATION OF MEDICAL GAS SYSTEMS. REFER TO SPECIFICATION REQUIREMENTS.
 - L. CLEAN ALL PIPING AND COMPONENTS AS OUTLINED WITHIN SPECIFICATION PRIOR TO INSTALLATION. BLOW DOWN ALL COMPLETED SYSTEMS WITH DRY NITROGEN AND PERFORM ALL INITIAL PRESSURE TESTS AS REQUIRED PER NFPA 99.
 - M. UPON COMPLETION OF WORK THE MECHANICAL CONTRACTOR SHALL HIRE A THIRD PARTY CONTRACT TO CERTIFY ALL NEW GAS PIPING SYSTEMS AS OUTLINED WITHIN NFPA 99 AND ALSO CERTIFY ANY NEW MEDICAL GAS PIPING ENCOUNTERED BY THE MEDICAL GAS SERVICE OUTLINE. PROVIDE FINAL CERTIFICATION REPORT TO BE INCLUDED WITHIN THE OPERATION AND MAINTENANCE MANUALS FOR THIS PROJECT.
 - N. THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL REVISIONS WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
 - O. ALL CONTRACTORS TO REFERENCE THE ENGINEER CONTROL NUMBER IDENTIFIED SHOWN ON THE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

- ## KEY NOTES:
- ① INSTALL NEW TREATMENT ROOM VALVE BOX. 1/2" OXYGEN, 1/2" MEDICAL AIR, AND 3/4" MEDICAL VACUUM TO AND FROM BOX. COORDINATE VALVE BOX LOCATION WITH WALL MOUNTED EQUIPMENT.
 - ② INSTALL NEW POD #1 VALVE BOX. 1/2" OXYGEN, 1/2" MEDICAL AIR, AND 3/4" MEDICAL VACUUM TO AND FROM BOX. COORDINATE VALVE BOX LOCATION WITH WALL MOUNTED EQUIPMENT.
 - ③ INSTALL NEW POD#2 VALVE BOX. 1/2" OXYGEN, 1/2" MEDICAL AIR, AND 3/4" MEDICAL VACUUM TO AND FROM BOX. COORDINATE VALVE BOX LOCATION WITH WALL MOUNTED EQUIPMENT.
 - ④ 1/2" MEDICAL AIR, 1/2" OXYGEN, AND 3/4" MEDICAL VACUUM DOWN TO MEDICAL HEADWALL OUTLETS. ONE (1) MEDICAL VACUUM, ONE (1) MEDICAL AIR, AND TWO (2) MEDICAL OUTLETS. SEE ARCHITECTURAL PLANS FOR ELEVATION.
 - ⑤ 1/2" OXYGEN DOWN TO ONE (1) OXYGEN WALL OUTLET. SEE ARCHITECTURAL PLANS FOR ELEVATION.
 - ⑥ INSTALL MEDICAL GAS ALARM PANEL MONITORING POD #1. COORDINATE ALARM PANEL LOCATION WITH WALL MOUNTED EDIS SCREEN.
 - ⑦ INSTALL MEDICAL GAS ALARM PANEL MONITORING POD #2. COORDINATE WITH WALL MOUNTED EQUIPMENT.
 - ⑧ INSTALL MEDICAL GAS ALARM PANEL MONITORING TREATMENT ROOM. COORDINATE WITH WALL MOUNTED EQUIPMENT.
 - ⑨ 1/2" MEDICAL AIR, 1/2" OXYGEN, AND 3/4" MEDICAL VACUUM DOWN TO MEDICAL HEADWALL OUTLETS. TWO (2) MEDICAL AIR, TWO (2) OXYGEN, AND TWO (2) MEDICAL VACUUM OUTLETS.

REVISIONS DATE

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS, WHERE VARIATIONS ARE FOUND TO OCCUR. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VARIATIONS IN DIMENSIONS OF THE WORK WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS, AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE: FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE TRADE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF THE EXISTING WALLS, PARTITIONS, DOORS, CEILING, GENERAL CONTRACTOR, PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS SHALL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED.



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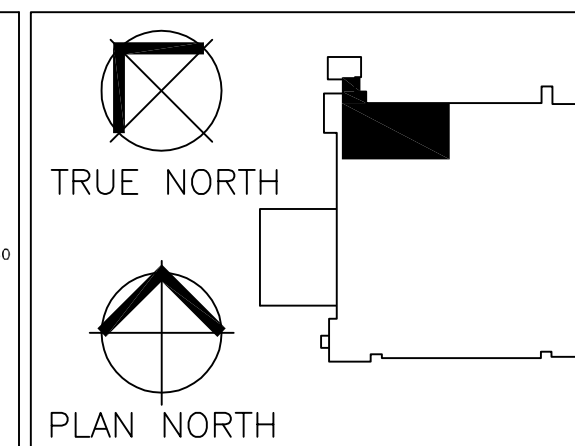
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

James E. Stult

JASON GOTTWALT, PE
Date 01/02/2014 **Reg. No.** 41360

Drawing Scale
AS NOTED

Plot Scale
12" = 1'-0"

Drawing Title
FIRST FLOOR MEDICAL GAS PLAN
Approved: Catherine Joyce, Chief, Projects Section
Approved: Steven Challeen, Director, Facilities Engineering

Project Title			
VA MINNEAPOLIS ED RENOVATION			
Location			
V.A. MEDICAL CENTER ONE VETERANS DRIVE MINNEAPOLIS, MN 55417			
Date	01/02/2004	Checked	JG
		Drawn	REQUIN

Project No.	618-14-104
Building Number	70
DRAWING NO.	1272-70-MG03
Dwg.	44 of 73

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Office of
Facilities
Management

 Department of
Veterans Affairs

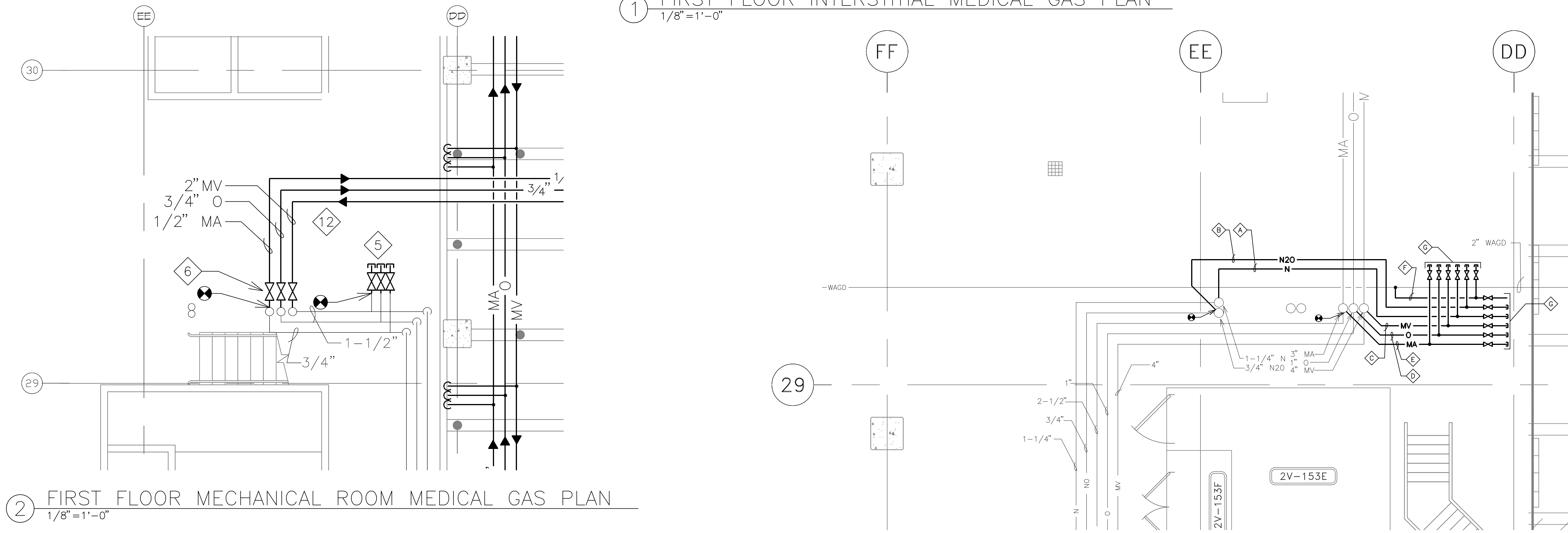
GENERAL NOTES:

- MECHANICAL CONTRACTOR SHALL REFER TO THE VA MASTER SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS WITHIN THE 2011 HVAC DESIGN GUIDE. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
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- ANY MAJOR OUTAGES INDICATED ON THESE DRAWINGS SHALL BE SCHEDULED TO BE PERFORMED AFTER NORMAL BUSINESS HOURS OR DURING WEEKEND PERIODS TO MINIMIZE HOSPITAL DISRUPTION. VA HOSPITAL FACILITIES WILL REQUIRE A MINIMUM OF TWO(2) WEEKS NOTICE PRIOR TO ANY SUCH OUTAGE AFFECTING MORE THAN ONE ADJACENT FLOOR.
- COORDINATE ALL NEW MEDICAL GAS PIPE ROUTING WITH ALL OTHER TRADES TO INSURE ADEQUATE CLEARANCES FOR DUCTWORK, ELECTRICAL CONDUIT, STRUCTURAL SUPPORTS, PIPING, ETC.. ANY UNAVOIDABLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD. PROVIDE ALL OFFSETS AND TRANSITIONS FOR A CLEAN INSTALLATION. ALL PIPING SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE LOCKABLE ISOLATION VALVES AT RISER TAKE-OFFS IF REQUIRED TO MINIMIZE OUTAGES BETWEEN PROJECT PHASES. COORDINATE ANY ADDITIONAL ISOLATION VALVES WITH THE ENGINEER OF RECORD TO REVIEW WITH HOSPITAL FACILITIES FOR APPROVAL.
- THE EXACT LOCATION OF EQUIPMENT ROUGH-INS SHALL BE VERIFIED WITH THE STAMPED AND APPROVED SHOP DRAWINGS PRIOR TO ANY FIELD INSTALLATION.
- SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT, OR OTHER PIPING ENCOUNTERED.
- WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED, OR DISTURBED, DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
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- UPON COMPLETION OF WORK AND AS REQUIRED BY PROJECT PHASING THE MECHANICAL CONTRACTOR SHALL HIRE A THIRD PARTY CONTRACT TO CERTIFY ALL NEW GAS PIPING SYSTEMS AS OUTLINED WITHIN NFPA 99 AND ALSO RE-CERTIFY ANY MEDICAL GAS INLETS/OUTLETS AFFECTED BY THE MEDICAL GAS SERVICE OUTAGE. PROVIDE FINAL CERTIFICATION REPORT TO BE INCLUDED WITHIN THE OPERATION AND MAINTENANCE MANUALS FOR THIS PROJECT.
- THE MECHANICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN THE FINAL RECORD DRAWING SET.
- ALL CONTRACTORS TO REFERENCE THE INFECTION CONTROL NOTES IDENTIFIED WITHIN THE VENTILATION GENERAL NOTES ON THESE DRAWINGS. CONFORM TO ALL ICRA REQUIREMENTS.

KEY NOTES:

- ◇ DOWN TO TREATMENT ROOM VALVE BOX.
- ◇ DOWN TO POD #1 VALVE BOX.
- ◇ DOWN TO POD #2 VALVE BOX.
- ◇ 1/2" OXYGEN, 1/2" MEDICAL AIR, AND 3/4" MEDICAL VACUUM DOWN TO HEADWALL.
- ◇ INSTALL LOCKABLE SERVICE VALVES AND CAP FOR FUTURE USE.
- ◇ INSTALL LOCKABLE SERVICE VALVES.
- ◇ INSTALL PRESSURE TRANSDUCERS.
- ◇ 1/2" MEDICAL AIR, 1/2" OXYGEN, AND 3/4" MEDICAL VACUUM DOWN TO HEAD WALL. SEE FLOOR PLAN FOR OUTLET QUANTITIES.
- ◇ 1/2" OXYGEN DOWN TO WALL OUTLET.
- ◇ EXTEND 2" MEDICAL VACUUM, 3/4" OXYGEN, AND 1/2" MEDICAL AIR FROM EXISTING CAPS.
- ◇ SEE 2/MG04 AND 3/MG04 FOR ENLARGED MECHANICAL ROOM MEDICAL GAS PLANS.
- ◇ INCLUDE ALL WORK IN AREA INDICATED RELATING TO TAPPING OFF OF SECOND FLOOR MEDICAL GAS RISERS AND CAPPING FOR FUTURE AS PART OF BID OPTION #10.
- BID OPTION #10
- ◇ EXTEND NEW 3/4" NITROGEN FROM EXISTING 3/4" NITROGEN RISER.
- ◇ EXTEND NEW 3/4" NITROUS OXIDE FROM EXISTING 1-1/4" NITROUS OXIDE RISER.
- ◇ EXTEND NEW 3" MEDICAL VACUUM FROM EXISTING 4" MEDICAL VACUUM RISER.
- ◇ EXTEND NEW 3/4" OXYGEN FROM EXISTING 1" RISER.
- ◇ EXTEND NEW 2" MEDICAL AIR FROM EXISTING 2-1/2" MEDICAL AIR RISER.
- ◇ EXTEND NEW 2" WAGD FROM EXISTING 3" WAGD MAIN.
- ◇ INSTALL FULL SIZE TAKE OFF WITH LOCKABLE SERVICE VALVE AND CAP FOR FUTURE CONNECTION FOR WAGD, NITROGEN, NITROUS OXIDE, OXYGEN, MEDICAL VACUUM, AND MEDICAL AIR.

1 FIRST FLOOR INTERSTITIAL MEDICAL GAS PLAN
1/8" = 1'-0"



2 FIRST FLOOR MECHANICAL ROOM MEDICAL GAS PLAN
1/8" = 1'-0"

3 SECOND FLOOR MECHANICAL ROOM MEDICAL GAS PLAN (BID OPTION #10)
1/8" = 1'-0"

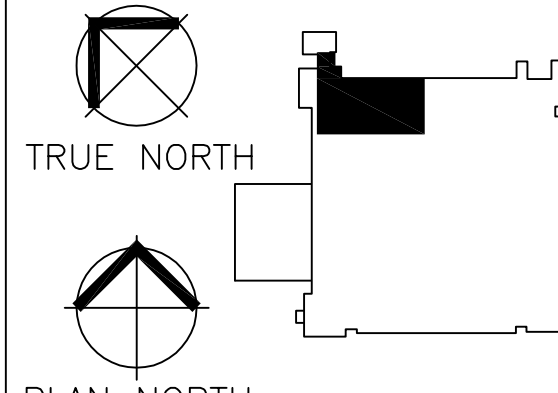
GENERAL NOTES:

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GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

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mechanical • electrical
consulting engineering



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.
JASON COTTWALT, PE
Date 01/02/2014 Reg. No. 41360
Drawing Scale
AS NOTED
Plot Scale
12" = 1'-0"

Drawing Title
FIRST FLOOR INTERSTITIAL MEDICAL GAS PLAN

Approved: Catherine Joyce, Chief, Projects Section

Approved: Steven Challeen, Director, Facilities Engineering

Project Title
VA MINNEAPOLIS ED RENOVATION

Location
**V.A. MEDICAL CENTER
ONE VETERANS DRIVE
MINNEAPOLIS, MN 55417**

Date
01/02/2014

Checked
JG

Drawn
RFOLIN

Project No.
618-14-104

Building Number
70

DRAWING NO.
1272-70-MG04

Dwg. 45 of 73

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