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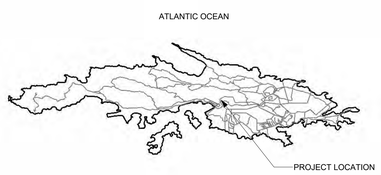
1303 Hospital Ground
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ODR TASK ORDER #: 010-9-101918

PROJECT MAP

THE ISLAND OF ST. THOMAS





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COVER SHEET

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DATE: 04/06/2026

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WALL LEGEND

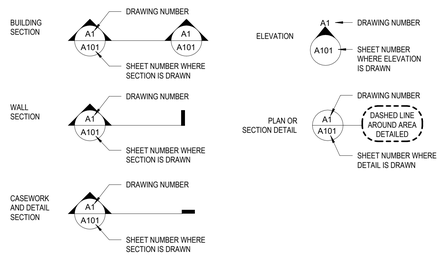
- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

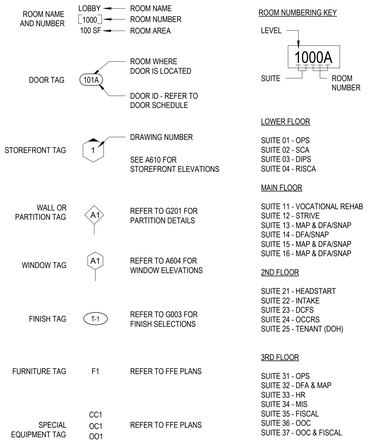
SITE SYMBOL LEGEND

- PLOT PROPERTY LINE
- SETBACK LINE
- SEWER LINE
- FENCE CHAINLINK LINE
- ELECTRIC LINE
- UNMARKED CORNER
- CONCRETE MONUMENT (FOUND)
- UTILITY POLE

REFERENCE SYMBOL LEGEND



CONSTRUCTION SYMBOL LEGEND



ROOM NUMBERING KEY

LOWER FLOOR

SUITE 01 - OPS
SUITE 02 - SCA
SUITE 03 - DIPS
SUITE 04 - RISCA

MAIN FLOOR

SUITE 11 - VOCATIONAL REHAB
SUITE 12 - STRIVE
SUITE 13 - MAP & DFA/SNAP
SUITE 14 - DFA/SNAP
SUITE 15 - MAP & DFA/SNAP
SUITE 16 - MAP & DFA/SNAP

2ND FLOOR

SUITE 21 - HEADSTART
SUITE 22 - INTAKE
SUITE 23 - DCFS
SUITE 24 - OCCRS
SUITE 25 - TENANT (DOH)

3RD FLOOR

SUITE 31 - OPS
SUITE 32 - DFA & MAP
SUITE 33 - HR
SUITE 34 - MIS
SUITE 35 - FISCAL
SUITE 36 - OOC
SUITE 37 - OOC & FISCAL

GENERAL PATTERN LEGEND

THE MATERIAL HATCH PATTERN KEY IS PROVIDED FOR GENERAL GRAPHIC REFERENCE ONLY. REFER TO MATERIAL NOTES AND LEGENDS FOR ACTUAL MATERIAL DESIGNATIONS. HATCHES PROVIDED ON FINISH PLANS, RCP, OR ANY OTHER DRAWING HAVING ITS OWN KEYED NOTATION AND GRAPHICAL LEGEND WILL SUPERCEDE THIS KEY.

- EXISTING
- EARTH, COMPACT FILL
- GRAVEL
- CONCRETE-CAST IN PLACE
- CONCRETE -PRECAST
- BATT INSULATION
- RIGID INSULATION
- ACOUSTICAL CEILING TILE
- CONCRETE MANSORY
- FACE BRICK
- SAND, MORTAR, GYPSUM BOARD, PLASTER, STUCCO
- ALUMINUM
- FINISH WOOD
- PLYWOOD
- ROUGH WOOD
- WOOD BLOCKING

LIFE SAFETY LEGEND

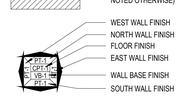
REFER TO ELECTRICAL FOR COMPLETE LIST

- FEC - FIRE EXTINGUISHER CABINET, SEMI-RECESSED
- EXIT SIGN
- DOOR PROVIDED W/ PANIC HARDWARE OR PUSH/PULL
- Max - EXIT CAPACITY OF DOOR Load - ANTICIPATED LOAD THROUGH DOOR CLEAR - CLEAR EXIT DOOR WIDTH (INCHES)
- DIAGONAL OF BUILDING OR AREA
- DISTANCE BETWEEN EXIT DOORS
- EGRESS TRAVEL PATH
- ASSEMBLY A-3 USE
- BUSINESS B USE
- PARKING S-2 USE
- NOT IN SCOPE

FINISH SYMBOL LEGEND

GENERAL

- NOT IN SCOPE OF WORK (UNLESS NOTED OTHERWISE)



WALLS

- ACCENT FINISH

ACOUSTIC WALL PANEL TYPES

- (ASL-1) ACOUSTIC SURFACE LINER PANEL, (SEE SPECS.)
- (PAT-1) PREFABRICATED ACOUSTICAL TREATMENT, (SEE SPECS.)

FLOORING

- PORCELAIN TILE T
- CARPET CPT
- TEXTILE COMPOSITION TILE TCF
- LUXURY VINYL TILE LVT
- SEALED CONCRETE SC
- STATIC DISSIPATIVE TILE SDT

CEILING SYMBOL LEGEND

- 2' x 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- METAL PANEL CEILING SYSTEM
- METAL PANEL CEILING SYSTEM
- EXTERIOR SOFFIT DAEFS
- EXTERIOR METAL PANEL CEILING SYSTEM
- PENDANT LIGHT FIXTURE - SEE ELECTRICAL
- DECORATIVE ACOUSTIC CEILING TILE
- EXTERIOR CEILING MOUNTED SPECIALTY LIGHT FIXTURE
- RETURN LINEAR GRILLE, - SEE MECHANICAL
- 10'-0" CEILING HEIGHT 10'-0" UNLESS OTHERWISE NOTED
- SUPPLY LINEAR GRILLE - SEE MECHANICAL
- EXHAUST GRILLE - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- SUPPLY GRILLE - SEE MECHANICAL
- ACCESS DOOR 1'-8" X 1'-8" - SEE SPECS.
- SMOKE DETECTOR HARDWIRED INTO PANEL BOX W/ BATTERY BACKUP
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- EXTERIOR WALL MOUNTED SCONCE FIXTURE - SEE ELECTRICAL
- 2x2 DIRECT/ INDIRECT LAY-IN FIXTURE - SEE ELECTRICAL
- 1X1 SURFACE MOUNTED FIXTURE - SEE ELECTRICAL
- WALL MOUNTED FIXTURE - SEE ELECTRICAL
- 4'X48" CEILING PENDANT FIXTURE - SEE ELECTRICAL
- EXTERIOR CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

SHEET INDEX

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	G203	UL DETAILS
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	C4.01	DETAILS SHEET
	C4.02	DETAILS SHEET
	C4.03	DETAILS SHEET
	C4.04	DETAILS SHEET
	C4.05	DETAILS SHEET
	C4.06	DETAILS SHEET
	C4.07	DETAILS SHEET
	C4.08	DETAILS SHEET
	C4.09	DETAILS SHEET
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	EXH-2	GARBAGE TRUCK ACCESS PLAN
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	S004	GENERAL NOTES
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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY — U.S. VIRGIN ISLANDS

GOVERNMENT OF THE U.S. VIRGIN ISLANDS — DEPARTMENT OF HUMAN SERVICES

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SYMBOLS, LEGENDS, & SHEET INDEX

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ABBREVIATIONS

AB	AIR BARRIER, ANCHOR BOLT	MATL	MATERIAL
ABV	ABOVE	MAX	MAXIMUM
ACT	ACOUSTICAL CEILING TILE	MDF	MEDIUM DENSITY FIBERBOARD
ADD	ADDITIONAL, ADDENDUM	MECH	MECHANICAL
ADJ	ADJUSTABLE, ADJACENT	MED	MEDIUM
AFF	ABOVE FINISHED FLOOR	MEMB	MEMBRANE
AFG	ABOVE FINISHED GRADE	MEZZ	MEZZANINE
AHJ	AUTHORITY HAVING JURISDICTION	MFR	MANUFACTURE, MANUFACTURER
AHU	AIR HANDLING UNIT	MH	MANHOLE
ALT	ALTERNATE, ALTERNATIVE	MIN	MINIMUM
ALUM	ALUMINUM	MIR	MIRROR
ANOD	ANODIZED	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL, ARCHITECT	MO	MASONRY OPENING
ATS	AUTOMATIC TRANSFER SWITCH	MOV	MOVABLE
AVG	AVERAGE	MR	MOISTURE RESISTANT
		MS	MOP SINK
B&S	BACKER ROD AND SEALANT	MTD	MOUNTED
BAC	BUILDING AUTOMATION AND CONTROLS	MTL	METAL
BATTS	BATT INSULATION	MUA	MAKE UP AIR
BC	BACK OF CURB		
BD	BOARD	NIC	NOT IN CONTRACT
BIT	BITUMINOUS	NIS	NOT IN SCOPE
BLDG	BUILDING	NO	NUMBER
BLKG	BLOCKING	NOM	NOMINAL
BM	BEAM	NRC	NOISE REDUCTION COEFFICIENT
BOD	BASIS OF DESIGN	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL		
BOT	BOTTOM	OA	OVERALL, OUTSIDE AIR
BRG	BEARING	OC	ON CENTER
BRK	BRICK	OD	OUTSIDE DIAMETER
BUR	BUILT-UP ROOFING	OF	OUTSIDE FACE
		OH	OVERHEAD
C/C	CENTER TO CENTER	OP	OPERABLE
CAB	CABINET	OPNG	OPENING
CC	CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	OPP	OPPOSITE, OPPOSITE HAND
CIP	CAST IN PLACE CONCRETE	ORD	OVERFLOW ROOF DRAIN
CJ	CONTROL JOINT	OSB	ORIENTED STRAND BOARD
CL	CENTERLINE		
CLG	CEILING	PAF	POWDER ACTUATED FASTENER
CLKG	CAULKING	PEMB	METAL BUILDING MANUFACTURER
CLO	CLOSET	PL	PLASTIC LAMINATE
CLR	CLEAR	PLBG	PLUMBING
CMU	CONCRETE MASONRY UNIT	PLTF	PLATFORM
CO	CLEANOUT, CASED OPENING	PLYWD	PLYWOOD
COL	COLUMN	PME	PLUMBING, MECHANICAL, AND ELECTRICAL
CONC	CONCRETE	PNL	PANEL
CONST	CONSTRUCTION	POTW	POTABLE WATER
CONT	CONTINUOUS, CONTROL	PR	PAIR
CTR	CENTER	PREFAB	PREFABRICATED
CW	COLD WATER	PREFIN	PREFINISHED
		PROP	PROPERTY LINE
D	DEPTH	PSL	PARALLEL STRAND LUMBER
DBL	DOUBLE	PT	PAINT
DEMO	DEMOLISH, DEMOLITION	PT	PRESSURE TREATED
DET	DETAIL	PTD	PAINTED
DF	DRINKING FOUNTAIN	PTN	PARTITION
DHW	DOMESTIC HOT WATER	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER		
DIM	DIMENSION	QTR	QUARTER
DIV	DIVISION, DIVIDE	QTY	QUANTITY
DN	DOWN		
DOAS	DEDICATED OUTDOOR AIR SYSTEM	R	RISER, RIGHT
DP	DRAIN PIPE, DAMPPROOF	RI	ROUGH-IN
DS	DOWNSPOUT	RA	RETURN AIR
DWG	DRAWING	RAD	RADIUS
DWR	DRAWER	RCP	REFLECTED CEILING PLAN
		RD	ROOF DRAIN
EA	EACH	RDL	ROOF DRAIN LEADER
EF	EACH FACE	REBAR	REINFORCING STEEL BAR
EF	EXHAUST FAN	RECP	RECEPTACLE
EFS	EXTERIOR FINISH SYSTEM	REF	REFERENCE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	REFURB	REFURBISH
EJ	EXPANSION JOINT	REINF	REINFORCE
EL	EACH LAYER		REINFORCING
ELEC	ELECTRIC SPACE, ELECTRICAL		REINFORCEMENT
ELEV	ELEVATOR, ELEVATION	REM	REMOVE, REMOVABLE
EMER	EMERGENCY	REQD	REQUIRED
ENCL	ENCLOSURE	RET	RETAINING, RETURN
ENG	ENGINEER, ENGINEERED	REV	REVERSE, REVISION
EP	ELECTRICAL PANEL	RFG	ROOFING
EPS	EXPANDED POLYSTYRENE INSULATION	RGH	ROUGH
EQ	EQUAL	RIG	RIGID
EQUIP	EQUIPMENT	RM	ROOM
ES	EACH SIDE	RND	ROUND
ETR	EXISTING TO REMAIN	RO	ROUGH OPENING
EW	EACH WAY	ROW	RIGHT OF WAY
EWC	ELECTRIC WATER COOLER	RS	ROUGH SAWN
EWH	ELECTRIC WATER HEATER	RTD	RATED
EXCAV	EXCAVATE		
EXH	EXHAUST	SA	SELF-ADHERED, SUPPLY AIR
EXIST	EXISTING	SAN	SANITARY
EXP	EXPANSION, EXPOSED	SB	SPLASH BLOCK
EXT	EXTERIOR	SBS	STYRENE-BUTADIENE-STYRENE INSULATION
		SCH, SCHED	SCHEDULE
FA	FIRE ALARM	SCR	SCREEN
FAAP	FIRE ALARM ANNUCIATOR PANEL	SCUP	SCUPPER
FAB	FABRICATE	SCWD	SOLID CORE WOOD
FACP	FIRE ALARM CONTROL PANEL	SECT	SECTION
FC	FIBER CEMENT	SF	SQUARE FOOT / SQUARE FEET
FD	FLOOR DRAIN	SFGL	SAFETY GLASS
FDC	FIRE DEPARTMENT CONNECTION	SHT	SHEET
FDTN	FOUNDATION	SHTG	SHEATHING
FE	FIRE EXTINGUISHER	SHWR	SHOWER
FEC	FIRE EXTINGUISHER CABINET	SIM	SIMILAR
FF	FINISHED FLOOR, FACTORY FINISH	SIP	STRUCTURAL INSULATED PANEL
FF&E	FIXTURES, FURNISHINGS, & EQUIPMENT	SK	SINK
FFE	FINISHED FLOOR ELEVATION	SLC	SELF-LEVELING COMPOUND
FIN	FINISH, FINISHED	SM	SHEET METAL
FLR	FLOOR	SNT	SEALANT
FM	FIRE MARSHAL	SOG	SLAB ON GRADE
FO	FINISHED OPENING	SP	STAND PIPE, SOUNDPROOF
FOC	FACE OF CONCRETE	SPEC	SPECIFICATION, SPECIFIED
FOF	FACE OF FINISH	SPRNK	SPRINKLER
FOM	FACE OF MASONRY	SQ	SQUARE
FOS	FACE OF STUD	SS	STAINLESS STEEL
FRT	FIRE RETARDANT TREATED		STANDING SEAM
FS	FLOOR SINK		SOLID SURFACE
FSTN	FASTEN, FASTENER	SSK	SERVICE SINK
FT	FEET	STC	SOUND TRANSMISSION CLASS
FTG	FOOTING	STD	STANDARD
FV	FIELD VERIFY (SEE ALSO: VIF)	STL	STEEL
		STN	STATION
GALV	GALVANIZED	STR	STAIR
GB	GRAB BAR	STRUCT	STRUCTURAL
GC	GENERAL CONTRACTOR	SUSP	SUSPEND, SUSPENDED
GEN	GENERATOR	SW	STORM WATER, SHEAR WALL
GFCI	GROUND FAULT CIRCUIT INTERRUPTED	SYP	SOUTHERN YELLOW PINE
GFI	GROUND FAULT INTERRUPTED		
GL	GLAZING	T	TREAD
GND	GROUND	T&B	TOP AND BOTTOM
GOVT	GOVERNMENT	T&G	TONGUE AND GROOVE
GR	GUARD RAIL	TD	TRENCH DRAIN
GRD	GRADE	TEMP	TEMPERATURE, TEMPORARY
GRTG	GRATING	TGL	TEMPERED GLASS
GT	GROUT	THK	THICK
GVL	GRAVEL	TLT	TOILET
GWB	GYPSUM WALL BOARD	TME	TO MATCH EXISTING
GYP	GYPSUM	TOC	TOP OF CURB
		TOS	TOP OF SLAB, TOP OF STEEL
H	HIGH	TOW	TOP OF WALL
HAZMAT	HAZARDOUS MATERIAL	TP	TOP OF PAVEMENT
HB	HOSE BIB	TPTN	TOILET PARTITION
HC	HANDICAPPED ACCESSIBLE	TRANS	TRANSFORMER
HCWD	HOLLOW CORE WOOD	TRTD	TREATED
HDR	HEADER	TSTAT	THERMOSTAT
HM	HOLLOW METAL	TWF	THRU WALL FLASHING
HORIZ	HORIZONTAL	TYP	TYPICAL
HR	HANDRAIL		
HSS	HOLLOW STRUCTURAL SECTION	UNFIN	UNFINISHED
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING VENTILATION AIR CONDITIONING	UR	URINAL
HW	HARDWARE		
HWS	HOT WATER SUPPLY	VAV	VARIABLE AIR VOLUME
		VB	VAPOR BARRIER
ID	INTERIOR DIAMETER	VERT	VERTICAL
IGU	INSULATED GLASS UNIT	VIF	VERIFY IN FIELD (SEE ALSO: FV)
INS	INSULATION	VP	VENT PIPE
INSUL	INSULATION	VR	VAPOR RETARDER
INT	INTERIOR, INTERNAL	VRF	VARIABLE REFRIGERANT FLOW
IR	IMPACT RESISTANT	VTR	VENT THROUGH ROOF
JBOX	JUNCTION BOX	W	WIDE, WIDTH
JF	JOINT FILLER	W/	WITH
JS	JOINT SEALANT	W/O	WITHOUT
JST	JOIST	WC	WATER CLOSET
JT	JOINT	WD	WOOD
		WG	WIRE GLASS
KD	KNOCK-DOWN, KILN-DRIED	WH	WATER HEATER, WALL HYDRANT
		WIN	WINDOW
L	LENGTH, LEFT	WS	WEATHER STRIPPING
LAV	LAVATORY	WWM	WELDED WIRE MESH (FABRIC)
LH	LEFT HAND		
LNDG	LANDING	XPS	EXTRUDED POLYSTYRENE INSULATION
LNTL	LINTEL		
LOD	LIMITS OF DISTURBANCE		
LP	LIGHTING PANEL		
LSL	LAMINATED STRAND LUMBER		
LTG	LIGHTING		
LVL	LEVEL, LAMINATED VENEER LUMBER		
LVR	LOUVER		

FINISH SELECTIONS - OVERALL

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS	REP CONTACT
EXTERIOR					
AL-1	ANODIZED ALUMINUM - BLACK	BLACK			
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT			
EP-1	PAINT COLOR TBD				
EP-2	PAINT COLOR TBD				
EP-3	CUSTOM 4 COLOR PATTERN - COLORS TBD				
EP-4	PAINT COLOR TBD				
EP-5	VARIES	SEE RCP FOR INTERIOR AND EXTERIOR CEILING MATERIALS AND FINISH INFORMATION			
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE			
ST-2	GRAY SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - GRAY			
ST-3	(3 COLORS - TBD) SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - MULTICOLOR			
STN-1	BLUE BIT STONE VENEER				
STN-2	MASONRY QUIONS				
INTERIOR					
ACT-1	ACOUSTICAL CEILING TILE	USG: RADAR CLIMAPLUS #2410; COLOR: WHITE		GRID: USG; DOWN DX,DXL; FLAT WHITE #50	
AP-1	ACOUSTICAL PANEL	SOELBERG; SLATZ WALL PANELS, COLOR TBD	RUN VERTICAL	PANEL SIZES: 47.5" x 96"	
C-1	UNFINISHED CONCRETE				
CG-1	CORNER GUARD 90 DEGREE	ACROVYN; 5M-20N; COLOR: TBD		4' HIGH	
CPT-1	CARPET TILES	INTERFACE; STYLE: TBD	ASHLAR INSTALLATION		
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT, TERRAIN II; COLOR: TBD	ASHLAR		
LVT-2	LUXURY VINYL TILE	MANNINGTON; COLOR: TBD			
P-1	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		GENERAL WALL PAINT	
P-2	PAINT	SHERWIN WILLIAMS; TBD		HM DOORS AND FRAMES - SEMI GLOSS	
P-4	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		ACCENT WALL PAINT	
P-5	PAINT	SHERWIN WILLIAMS; SW 7007 CEILING BRIGHT WHITE		CEILING PAINT	
PL-1	PLASTIC LAMINATE	WILSONART			
SC-1	STAINED CONCRETE				
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG, EXCELONG, 12" X 12"			
SS-1	SOLID SURFACE, CORIAN	CORIAN, COLOR: TBD		COUNTERS AND WINDOW SILLS	
T-1	PORCELAIN TILE 12x24	DALTILE; VIRTUO; COMPOSER VR11; 12"x24"		TOILET ROOM FLOORS AND WALLS	COURTNEY HAMPTON; COURTNEY.HAMPTON@DALTILE.COM
T-2	QUARRY TILE	DALTILE QUARRY TILE; COLOR: ARID FLASH; SIZE: 6"x6"		KITCHEN AND PANTRY TILE	COURTNEY HAMPTON; COURTNEY.HAMPTON@DALTILE.COM
TB-1	TILE BASE	DALTILE; 6" H BASE			COURTNEY HAMPTON; COURTNEY.HAMPTON@DALTILE.COM
TB-2	TILE BASE	DALTILE; QUARRY TILE BASE; COLOR: ARID FLASH, 5 x 6" ROUND TOP COVE BASE			COURTNEY HAMPTON; COURTNEY.HAMPTON@DALTILE.COM
TCF	TEXTILE COMPOSITION TILE	J&J FLOORING, KINETEX	ASHLAR		
WB-1	WALL BASE	TARKETT; JOHNSONITE; 4" HIGH MILLWORK BASE; COLOR: TBD			
WF-1	WALKOFF CARPET TILE	J+J FLOORING; STYLE: INCOGNITO; COLOR: TBD; SIZE: 24"x24"	QUARTER-TURN INSTALLATION		

KEYNOTES (ALL) - NEW WORK

#	DESCRIPTION
000 - SITE	
001	BELOW GRADE
002	EXISTING TREE LOCATION, PROTECT FOR DURATION OF CONSTRUCTION
003	GENERATOR ENCLOSURE
007	CHAINLINK FENCE SKIRT
008	BACKFILL
009	CAST IN PLACE SITE STAIR WITH RAILINGS - SEE CIVIL
010	CONNECT DRAINAGE PIPING TO STORMWATER SYSTEM - SEE CIVIL
011	ON GRADE PARKING AREA - SEE CIVIL
012	MOTORIZED VEHICLE ACCESS GATE - SEE CIVIL
013	RECONFIGURED RETAINING WALL - SEE CIVIL AND STRUCTURAL
014	CAST IN PLACE CONCRETE BENCH
015	EXTERIOR EXPANSION JOINT COVER
016	TRENCH DRAIN - REFER TO CIVIL/ PLUMBING
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
018	PEDESTRIAN CROSSWALK
019	SPECIALTY LIGHTING - BUILDING SIGNAGE & LANDSCAPING
020	BOLLARD WITH LIGHTING
021	ADA CURB RAMP - SEE CIVIL
022	CONCRETE WALKWAY - WHERE WALKWAY ABUTS EXTERIOR WALL IT MUST SLOPE AWAY FROM THE BUILDING AT NO MORE THAN 2%
024	EXISTING STRUCTURE TO BE PROTECTED AT ALL TIMES DURING ADJACENT DEMOLITION AND CONSTRUCTION
025	EXISTING HISTORIC WALL TO BE PROTECTED AT ALL TIMES DURING ADJACENT DEMOLITION AND CONSTRUCTION
026	DUMPSTER ENCLOSURE
027	PROPERTY LINE
028	CONCRETE WHEEL STOP
029	CURB AT EDGE OF PAVING - SEE CIVIL DRAWINGS
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
031	FINISHED GRADE - SEE CIVIL
032	STEP STREET - NORTH TO SOUTH ACCESSIBLE ROUTE BETWEEN NEW CONSTRUCTION AND HISTORIC STRUCTURES
033	PARKING DECK ENTRY RAMP
034	CHILLER EQUIPMENT AS SPECIFIED BY MEP
035	CHILLER PIPING - SEE MEP
036	NEW TRANSFORMER ON CONCRETE PAD
037	UNOCCUPIABLE SPACE BELOW STAIRWELL
038	PARKING STRIPING
039	HANDICAP PARKING SPACE
040	HANDICAP VAN PARKING SPACE
041	HANDICAP LOADING ZONE
042	COMPACT PARKING SPACE
043	HANDICAP PARKING SIGN
044	PASSENGER LOADING ZONE
045	CONCRETE WALL BELOW CONCRETE BENCH
046	BOLLARD – SEE CIVIL
047	GENERATOR, SEE ELECTRICAL
048	NATURAL AREA
050	DRIVEWAY PAVING - SEE CIVIL
051	PROPOSED LOCATION OF VITRAN BUS STOP
100 - WALLS AND OPENINGS	
101	OPENING THROUGH WALL
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
104	CIP STRUCTURAL WALL SEE STRUCTURAL DRAWINGS
105	COILING COUNTER SHUTTER - SEE SPECS
106	INTERIOR GLAZED ASSEMBLY WITH HOLLOW METAL FRAME - SEE A611
108	2'x2' CISTERN ACCESS HATCH AT MAIN FLOOR WITH SEALED METAL COVERS (1 PER CISTERN CHAMBER)
109	CISTERN COMPARTMENT/ CHAMBER, SEE SPECS FOR SPECIALTY WATERPROOFING SYSTEM REQUIRED.
110	EXTERIOR ALUMINUM WINDOW SHADING DEVICE
111	ALUMINUM EXTERIOR LOUVER SYSTEM - FACTORY FINISH - SEE MECHANICAL FOR SIZING
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
125	HVHZ AND IR RATED ALUMINUM STOREFRONT ASSEMBLY, TYPICAL - SEE A610 STOREFRONT ELEVATIONS
126	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
128	WALL NICHE WITH INTEGRATED LIGHTING - SEE DETAILS
129	AUTOMATIC DOOR OPENER AT MAIN FLOOR ENTRANCE DOORS
130	PARAPET, WRAP ROOF MEMBRANE AS DETAILED
131	SELF-ADHERED SHEET WATERPROOFING BELOW GRADE
132	LIGHTWEIGHT CONCRETE ON METAL DECK
200 - ROOF & EXTERIOR	
201	OUTLINE OF STRUCTURE ABOVE
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
204	ALUMINUM THRU-WALL OVERFLOW SCUPPER
207	HIGH ROOF ABOVE TRAINING ROOM; REFER TO STRUCTURAL
209	BUILDING EXPANSION JOINT AND EXPANSION JOINT COVER - SEE STRUCTURAL DRAWINGS
211	REINFORCED LIQUID-APPLIED MEMBRANE ROOFING - TURN UP BACKSIDE OF PARAPET (TYP)
212	SPRAY FOAM INSULATION (R-38 MIN) AT UNDERSIDE OF CONCRETE ROOF STRUCTURE, AS SCHEDULED. INTUMESCENT PAINT COATING.
213	HOLLOW METAL DOOR AS SCHEDULE
214	SLOPE CONCRETE SLAB TO CREATE SLOPE FOR ROOF DRAINAGE CRICKET. COORDINATE 1/2"/FT. MIN. SLOPE TO ROOF SCUPPERS, (TYP)
215	SLOPE CONCRETE SLAB TO CREATE SLOPE FOR CRICKET, (SLOPED 1/4"/FT.)
216	ROOF-MOUNTED MECHANICAL DOG HOUSE AT EXHAUST FAN
217	FLUID APPLIED MEMBRANE ROOFING SYSTEM OVER CAST IN PLACE CONCRETE ROOF STRUCTURE, (SEE STRUCT DWGS)
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
221	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE B
222	CAST STONE PORTAL SURROUND - PROFILE C
223	CAST STONE PORTAL SURROUND - PROFILE D
224	DECORATIVE CONCRETE CORNICE BAND - PROFILE E
225	DECORATIVE CONCRETE CORNICE BAND - PROFILE F
226	CONCRETE SILL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
227	CONCRETE HEADER WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
229	VERTICAL/ HORIZONTAL SCORE JOINT IN STUCCO FINISH
230	2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH OVER CAST IN PLACE CONCRETE AT PARAPET WALL
231	CONCRETE QUIONS
232	CONCRETE 'T' SHAPED PILASTER WITH FORMED ARCHITECTURAL TOP PROFILE
233	REINFORCED CONCRETE RECTANGULAR PILASTER
236	METAL COPING PARAPET CAP FLASHING
237	CONCRETE ROOF SLAB (SLOPED 1/2" / 12" (TYP) OVER STEEL ROOF STRUCTURE, PREPARE CONCRETE PER ROOFING MANUFACTURER REQUIREMENTS INCLUDING PRIMER AS REQUIRED
240	10" ANODIZED ALUMINUM SIGNAGE LETTERS - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
242	PARAPET FLASHING
255	INSULATED ROOF HATCH ON CURB
260	MASONRY VENEER SHELF ANGLE, COORD. W/ STRUCT DWGS.
263	ROOF DRAIN WALL SCUPPER WITH COLLECTORHEAD, HEAVY GUAGE ALUMINUM DOWNSPOUT - CONNECT TO UNDERGROUND PIPING - SEE CIVIL
264	SPECIALTY LIGHT FIXTURES AS SCHEDULED
266	SPECIALTY LIGHT FIXTURES - EXTERIOR LINEAR FIXTURE
267	SPECIALTY LIGHT FIXTURES - EXTERIOR RECESSED CAN LIGHT
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
269	LIGHT WELL AND EXTERIOR STAIR - SLAB OPENING TO LEVEL BELOW
270	OPEN METAL GRATE FLOORING OVER GRADE
273	SLOPE OF ROOF OR PARKING DECK SLAB BEYOND
274	RIDGE
275	VALLEY
277	OUTDOOR KITCHEN AREA WITH SINK AND BARBECUE GRILL - SEE ENLARGED PLANS/ELEVATIONS
278	CANOPY ROOF - SINGLE-PLY ROOFING SYSTEM OVER CONCRETE ROOF SLAB - SLOPED TO DRAIN AT 1/4" / 12"
280	0'-4" ANODIZED ALUMINUM SIGNAGE LETTERS (DHS) - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
281	0'-6" ANODIZED ALUMINUM SIGNAGE LETTERS (DOH) - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
282	ANODIZED ALUMINUM SIGNAGE DEPARTMENT OF HUMAN SERVICES LOGO - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
283	ANODIZED ALUMINUM SIGNAGE DEPARTMENT OF HEALTH LOGO - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE
300 - INTERIOR CONSTRUCTION & MILLWORK	
301	OPERABLE FOLDING PANEL ACOUSTIC WALL PARTITION - WITH DOOR PANEL (MIN STC-50)
306	BULLETPROOF TRANSACTION WINDOW WITH SOLID SURFACE COUNTER - SEE MILLWORK DETAILS
307	PLASTIC LAMINATE CABINETRY AND SOLID SURFACE COUNTERTOP - SEE MILLWORK DRAWINGS
400 - FFE	
403	PROVIDE SELF CHECK-IN KIOSK - REFER TO FF&E PLAN
407	STEEL ROOF ACCESS LADDER
411	FLOOR SAFE BY OWNER
412	VENDING MACHINE BY OTHERS
413	INTERIOR WORK STATION ACOUSTIC FURNITURE SYSTEM
414	HIGH DENSITY STORAGE SYSTEM - SEE SPECIFICATIONS
415	WALK IN REFIGERATOR/FREEZER - SEE MEP
416	ANTI-LIGATURE FIXTURES INCLUDING: DOOR HARDWARE, LIGHTS, FURNISHINGS AND ACCESSORIES
500 - VERTICAL CIRCULATION	
501	CAST IN PLACE CONCRETE RAMP WITH ANODIZED ALUMINUM RAILING TO MEET ADA GUIDELINES WITH 1:12 MAXIMUM SLOPE.
503	ANODIZED ALUMINUM HANDRAIL & GUARDRAIL
504	ANODIZED ALUMINUM CANE RAIL
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
506	ANODIZED ALUMINUM HANDRAIL
507	ANODIZED ALUMINUM EXTERIOR HANDRAIL AND GUARDRAIL
508	ANODIZED ALUMINUM GUARDRAIL
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
510	ELEVATOR - SEE SPECIFICATIONS - 3500# STRETCHER COMPLIANT (7'-0" X 8'-9") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)

KEYNOTES (ALL) - NEW WORK

511	ELEVATOR - SEE SPECIFICATIONS - 2500# - (7'-0" X 8'-7") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
512	RAISED FLOOR TO ACCOMODATE ELEVATOR SHAFT CEILING - SEE STRUCTURAL
513	ELEVATOR PIT BELOW - COORDINATE PIT DEPTH AND SUMP WITH STRUCTURAL & ELEVATOR MANUFACTURER
514	ELEVATOR SUMP PUMP, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
515	ELEVATOR HOIST BEAM, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
516	ELEVATOR DIVIDER BEAM, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
517	GALVANIZED STEEL ACCESS STAIR WITH RAILING
600 - COORDINATION	
602	CAST IN PLACE CONCRETE PATIO - SEE STRUCTURAL
603	MECHANICAL EQUIPMENT YARD - COORDINATE DRAINAGE & EQUIPMENT WITH MECHANICAL DRAWINGS
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED
606	INTERNAL ROOF DRAIN ASSEMBLY, PIPED VERTICALLY DOWN TO LOWER LEVEL AT NEAREST INTERIOR COLUMN LINE, AND PIPED LATERALLY OVERHEAD TO CISTERN
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
609	REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT INFORMATION
610	MECHANICAL DUCTS IN SHAFT, SEE MECHANICAL DRAWINGS
611	PREFABRICATED SHOWER UNITS, SEE PLUMBING DRAWINGS
613	URINAL, SEE PLUMBING DRAWINGS
614	KEY CARD AND BIOMETRIC READER, REFER TO ELECTRICAL DRAWINGS
615	DRINKING FOUNTAIN - SEE PLUMBING
616	CISTERN STRUCTURE - COORDINATE REQUIREMENTS WITH STRUCTURAL & CIVIL
617	REINFORCED CONCRETE BEAM - SEE STRUCTURAL
618	STEEL FLOOR FRAMING - SEE STRUCTURAL
619	STEEL ROOF FRAMING - SEE STRUCTURAL
620	REINFORCED CONCRETE STRUCTURAL COLUMN - SEE STRUCTURAL
621	PIPE/ DUCT CHASE - SEE MEP
622	HOSE BIBB; REFER TO PLUMBING
623	CIP FOOTINGS SEE STRUCTURAL DRAWINGS
631	POST-TENSIONED DECK WITH 1/4"/12" SLOPE, SEE STRUCTURAL
632	SLAB ON GRADE
633	REINFORCED CONCRETE FOUNDATION - SEE STRUCTURAL
634	STORM WATER RETENTION SYSTEM - SEE CIVIL
635	ELEVATED REINFORCED CONCRETE SLAB
636	CONCRETE CISTERN LID TO BE FLUSH WITH ADJACENT SLABS - SEE STRUCTURAL
637	PIPING - SEE MEP
700 - RCP	
702	SPECIALTY LIGHT FIXTURES
706	CEILING PLENUM ACCESS DOOR; SEE SPECS (FINAL LOCATION TO BE COORD W OWNER)
713	LINEAR PLANK ACOUSTIC CEILING
714	SUSPENDED ACOUSTIC CEILING BAFFLES
715	DECORATIVE ACOUSTIC CEILING TILES WITHIN 2X2 GRID
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH
800 - FINISHES	
804	PAINTED STUCCO 'UNITED IN PRIDE AND HOPE' LETTERING - SEE SPEC
812	OPERABLE INTERIOR WINDOW SHADE
813	SOLID SURFACE WINDOW SILL
814	PROVIDE PRIVACY FILM ON INTERIOR FACE OF EXTERIOR GLAZING

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Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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ABBREVIATIONS, FINISH SELECTIONS, & KEYNOTES

NOT FOR CONSTRUCTION

REVISIONS:

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TYPICAL DOOR CLEARANCES

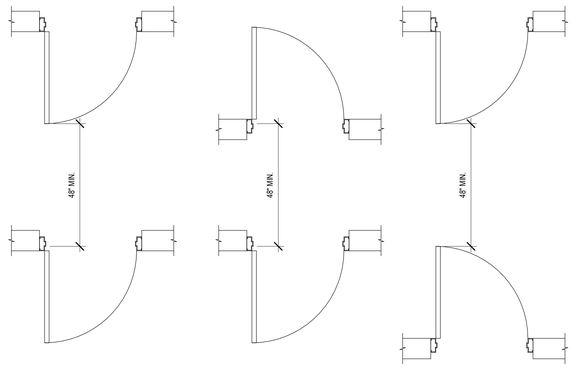
GENERAL NOTES:

1. MANUAL DOORS, DOORWAYS, AND MANUAL GATES
   - 1.1. REVOLVING DOORS, GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.
   - 1.2. DOUBLE-LEAF DOORS AND GATES. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 1.3 AND 1.4 BELOW.
   - 1.3. CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 mm) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 mm) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 mm) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 mm) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 mm) AND 80 INCHES (2030 mm) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 mm). EXCEPTIONS: 1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (16 mm) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP. 2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
   - 1.4. MANEUVERING CLEARANCES. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. EXCEPTION: ENTRY DOORS TO HOSPITAL PATIENT ROOMS SHALL NOT BE REQUIRED TO PROVIDE THE CLEARANCE BEYOND THE LATCH SIDE OF THE DOOR.
   - 1.5. SWINGING DOORS AND GATES. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH THE TABLE BELOW.
2. FLOOR OR GROUND SURFACES.
   - 2.1. FLOOR OR GROUND SURFACES WITHIN REQUIRED MANEUVERING CLEARANCES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. EXCEPTIONS: 1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED. 2. CHANGES IN LEVEL AT THRESHOLDS COMPLYING WITH 2.2 BELOW.
   - 2.2. THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (13 mm) HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 2.1 ABOVE AND LEVEL CHANGE REQUIREMENTS.

TABLE: MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

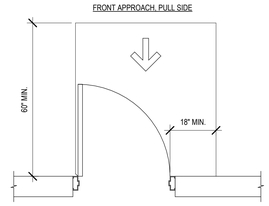
TYPE OF USE		MINIMUM MANEUVERING CLEARANCE	
APPROACH DIRECTION	DOOR OR GATE SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
FROM FRONT	PULL	60 INCHES (1525 mm)	18 INCHES (455 mm)
FROM FRONT	PUSH	48 INCHES (1220 mm)	0 INCHES (0mm)[1]
FROM HINGE SIDE	PULL	60 INCHES (1525 mm)	36 INCHES (905 mm)
FROM HINGE SIDE	PULL	54 INCHES (1370 mm)	42 INCHES (1065 mm)
FROM HINGE SIDE	PUSH	42 INCHES (1065 mm)[2]	22 INCHES (560 mm) [3]
FROM LATCH SIDE	PULL	48 INCHES (1220 mm) [4]	24 INCHES (610 mm)
FROM LATCH SIDE	PUSH	42 INCHES (1065 mm) [4]	24 INCHES (610 mm)

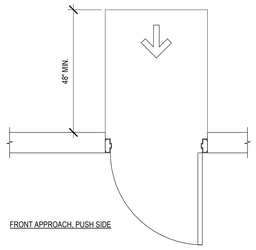
1. ADD 12 INCHES (305 mm) IF CLOSER AND LATCH ARE PROVIDED.
2. ADD 6 INCHES (150 mm) IF CLOSER AND LATCH ARE PROVIDED.
3. BEYOND HINGE SIDE.
4. ADD 6 INCHES (150 mm) IF CLOSER IS PROVIDED.



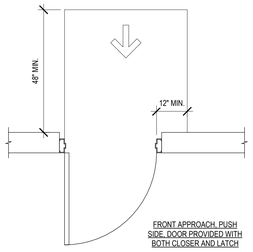
NOTES:
1. DOORS IN SERIES AND GATES IN SERIES. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES (1220 mm) MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE.
2. FLOOR OR GROUND SURFACES.
   - 2.1. FLOOR OR GROUND SURFACES WITHIN REQUIRED MANEUVERING CLEARANCES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. EXCEPTIONS: 1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED. 2. CHANGES IN LEVEL AT THRESHOLDS COMPLYING WITH 2.2 BELOW.
   - 2.2. THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (13 mm) HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 2.1 ABOVE AND LEVEL CHANGE REQUIREMENTS.

FRONT APPROACH, PULL SIDE

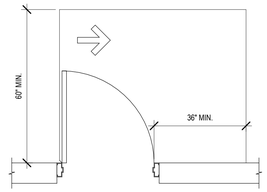




FRONT APPROACH, PUSH SIDE

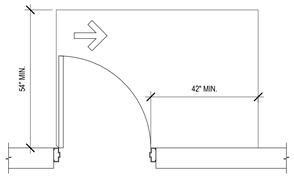


FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

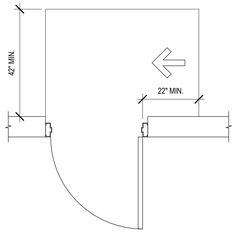


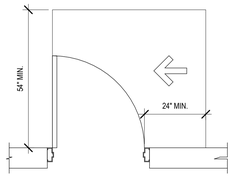
HINGE APPROACH, PULL SIDE

(HINGE APPROACH, PULL SIDE)



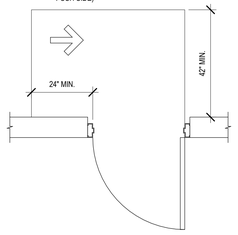
(FRONT APPROACH, PUSH SIDE)

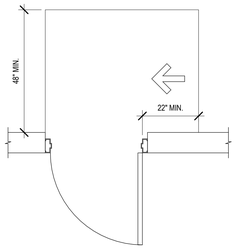




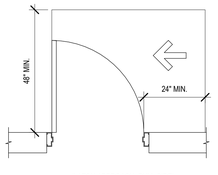
(LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER)

(LATCH APPROACH, PUSH SIDE)

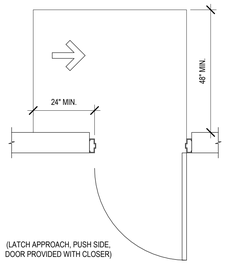




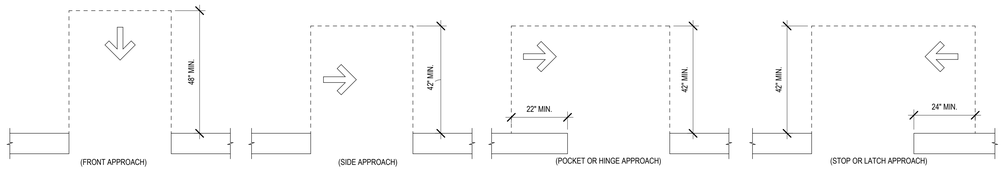
(FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH)



(LATCH APPROACH, PULL SIDE)



(LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER)



(FRONT APPROACH) (SIDE APPROACH) (POCKET OR HINGE APPROACH) (STOP OR LATCH APPROACH)

NOTES:
1. DOORWAYS WITHOUT DOORS OR GATES, SLIDING DOORS, AND FOLDING DOORS. DOORWAYS LESS THAN 36 INCHES (915 mm) WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE BELOW.

	MINIMUM MANEUVERING CLEARANCE	
APPROACH DIRECTION	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
FROM FRONT	48 INCHES (1220 mm)	0 INCHES (0mm)
FROM SIDE[1]	42 INCHES (1065 mm)	0 INCHES (0mm)
FROM POCKET/HINGE SIDE	42 INCHES (1065 mm)	22 INCHES (560 mm)[2]
FROM STOP/LATCH SIDE	42 INCHES (1065 mm)	24 INCHES (610 mm)

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Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

ACCESSIBILITY CLEARANCES

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

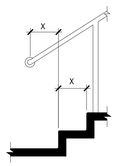
NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
G003

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

GENERAL SITE AND BUILDING ELEMENTS



NOTE: X = TREAD DEPTH

FIG 505.10.3 BOTTOM HANDRAIL EXTENSION AT STAIRS

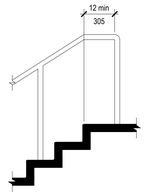


FIG 505.10.2 TOP HANDRAIL EXTENSION AT STAIRS

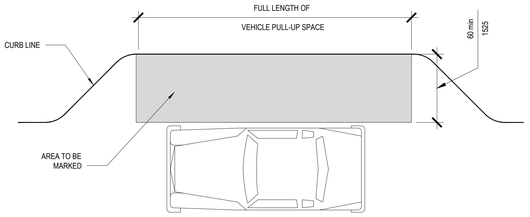


FIG 503.3
PASSENGER LOADING ZONE ACCESS AISLE

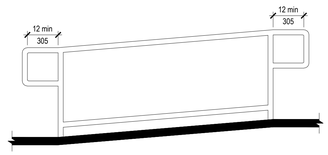


FIG 505.10.1 TOP & BOTTOM HANDRAIL EXTENSION AT RAMP

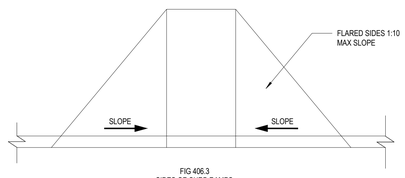


FIG 406.3
SIDES OF CURB RAMPS

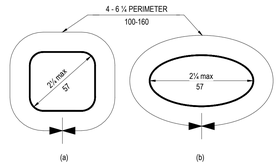


FIG 505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION

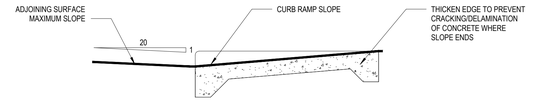


FIG 406.2 COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS

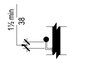


FIG 505.6 HORIZONTAL PROJECTIONS BELOW GRIPPING SURFACE



FIG 505.5 HANDRAIL CLEARANCE

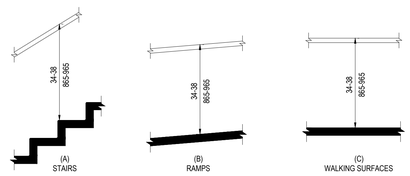


FIG 505.4 HANDRAIL HEIGHT

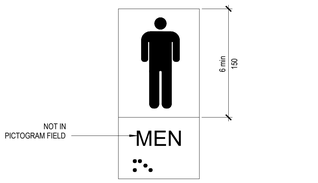
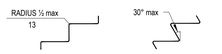
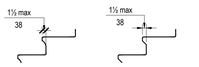


FIG 703.6
PICTOGRAM FIELD



RADIUS OF TREAD EDGE
(TYPICAL FOR ALL PROFILES)

ANGLED RISER



CURVED NOSING

BEVELED NOSING

FIG 504.5
STAIR NOSING

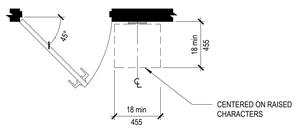
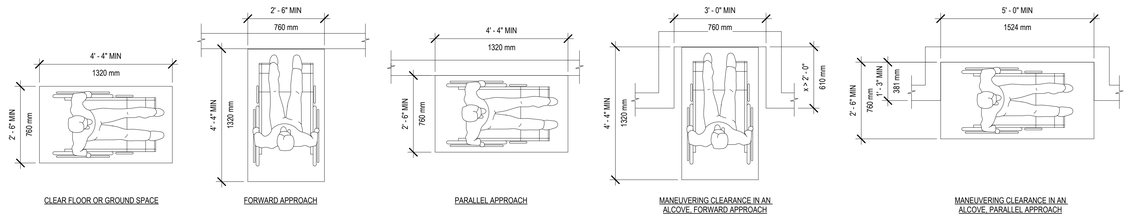


FIG 703.4.2 LOCATION OF TACTILE SIGNS AT DOORS

A1 GENERAL SITE AND BUILDING ELEMENTS
G004 NOT TO SCALE

TYPICAL CLEARANCES - ACCESSIBILITY



CLEAR FLOOR OR GROUND SPACE

FORWARD APPROACH

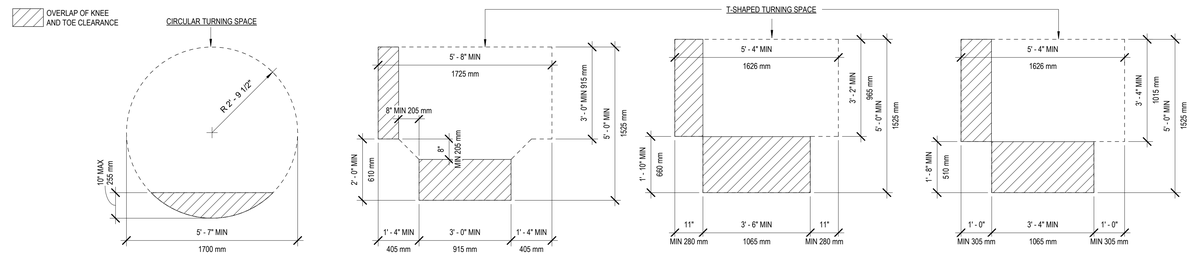
PARALLEL APPROACH

MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

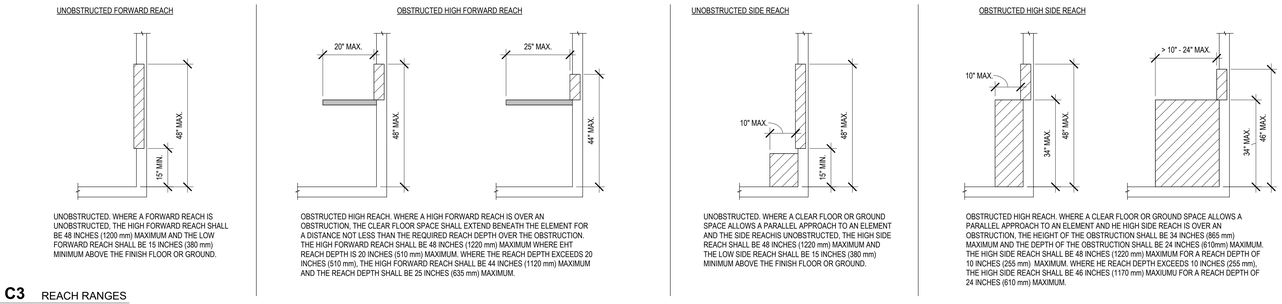
E3 CLEAR FLOOR SPACES
G004 1/2" = 1'-0"

GENERAL. FLOOR OR GROUND SURFACES OF TURNING SPACE SHALL COMPLY WITH FLOOR AND GROUND SURFACES OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN. CHANGES IN LEVEL ARE NOT PERMITTED.



D3 TURNING SPACES
G004 1/2" = 1'-0"

GENERAL. FLOOR OR GROUND SURFACES OF TURNING SPACE SHALL COMPLY WITH FLOOR AND GROUND SURFACES OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN. CHANGES IN LEVEL ARE NOT PERMITTED.



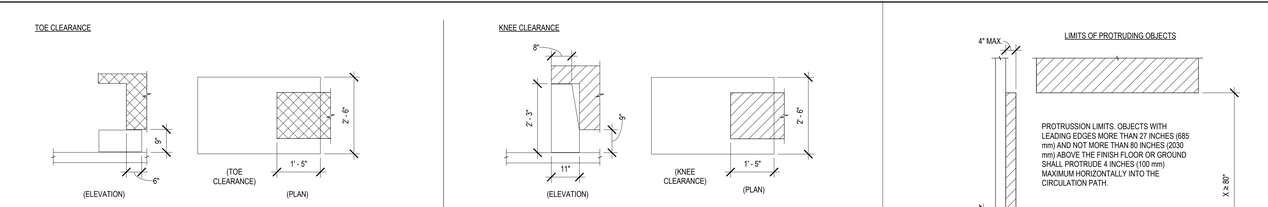
UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1200 mm) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (380 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 mm) MAXIMUM WHERE EHT REACH DEPTH IS 20 INCHES (510 mm) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES (510 mm), THE HIGH FORWARD REACH SHALL BE 44 INCHES (1120 mm) MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES (635 mm) MAXIMUM.

UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACHIS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 mm) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (380 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND HE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 mm) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610mm) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 mm) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (255 mm) MAXIMUM. WHERE HE REACH DEPTH EXCEEDS 10 INCHES (255 mm), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 mm) MAXIUMU FOR A REACH DEPTH OF 24 INCHES (610 mm) MAXIMUM.

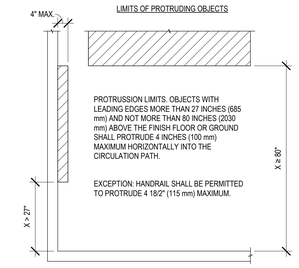
C3 REACH RANGES
G004 1/2" = 1'-0"



NOTES:
1. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (230 mm) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE.
2. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 mm) MAXIMUM UNDER AN ELEMENT.
3. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 mm) UNDER THE ELEMENT.
4. SPACE EXTENDING GREATER THAN 6 INCHES (150 mm) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 mm) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.
5. TOE CLEARANCE SHALL BE 30 INCHES (760 mm) WIDE MINIMUM.

B3 KNEE AND TOE CLEARANCES
G004 NOT TO SCALE

NOTES:
1. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES (230mm) AND 27 INCHES (685mm) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE.
2. KNEE CLEARANCE SHALL EXTEND 25 INCHES (635mm) MAXIMUM UNDER AN ELEMENT AT 9 INCHES (230mm) ABOVE THE FINISH FLOOR OR GROUND.
3. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES (280mm) DEEP MINIMUM AT 9 INCHES (230mm) ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES (205mm) DEEP MINIMUM AT 27 INCHES (685mm) ABOVE FINISH FLOOR OR GROUND.
4. BETWEEN 9 INCHES (230mm) AND 27 INCHES (685mm) ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH (25mm) IN DEPTH FOR EACH 6 INCHES (150mm) IN HEIGHT.



B5 PROTRUDING OBJECTS
G004 NOT TO SCALE

CARPET PILE HEIGHT

CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NOT CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH (13 mm) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH CHANGES IN LEVEL.

VERTICAL CHANGE IN LEVEL

VERTICAL: CHANGES IN LEVEL OF 1/4 INCH. (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

BEVELED CHANGE IN LEVEL

BEVELED: CHANGES IN LEVEL BETWEEN 1/4 INCH (6.4mm) HIGH MINIMUM AND 1/2 INCH (13mm) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

GENERAL. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AN DSLIP RESISTANT.

A3 FLOOR AND GROUND SURFACES
G004 NOT TO SCALE

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DEPARTMENT OF HUMAN SERVICES

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Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

TYPICAL ACCESSIBILITY & SITE DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

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G004

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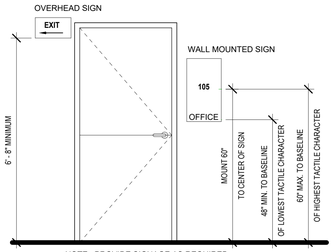
B: 30% CONSTRUCTION DOCUMENTS

SIGNAGE

4.30.6 MOUNTING LOCATION AND HEIGHT. WHERE PERMANENT IDENTIFICATION IS PROVIDED ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO LATCH THE SIDE OF THE DOOR, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" (1525MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. WITHIN 3" (76MM) OF THE SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE DOORSWING.

4.4.2 HEAD ROOM. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES, OR OTHER CIRCULATION SPACES SHALL HAVE 80" (2030 MM) MINIMUM CLEAR HEAD ROOM. IF VERTICAL CLEARANCE OF AN AREA ADJOINING AN ACCESSIBLE ROUTE IS REDUCED TO LESS THAN 80" A BARRIER TO WARN THE BLIND OR VISUALLY IMPAIRED PERSONS SHALL BE PROVIDED.

HEIGHT ABOVE FINISH FLOOR	MINIMUM CHARACTER HEIGHT
SUSPENDED OR PROJECTED OVERHEAD IN COMPLIANCE WITH 4.4.2. 60"; MOUNTED ON WALL ADJACENT TO LATCH SIDE OF THE DOOR, CENTERLINE OF THE SIGN.	MINIMUM OF 3"

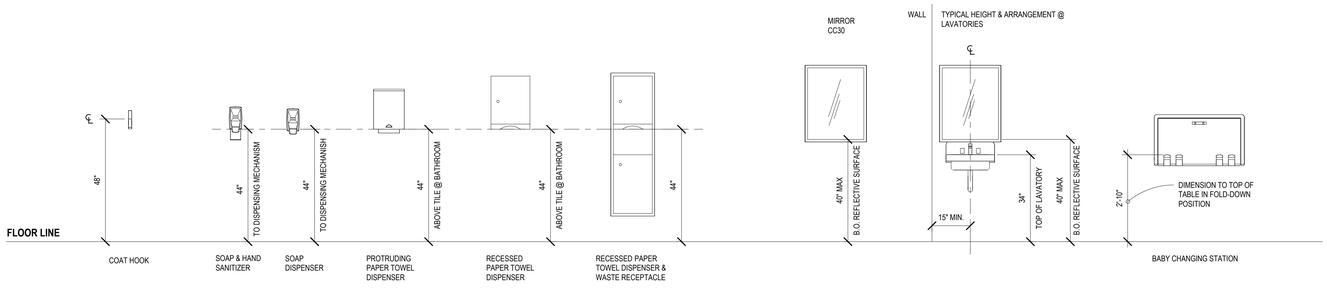


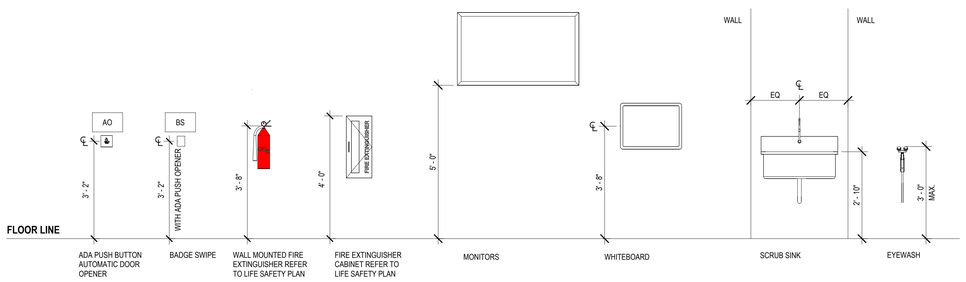
NOTE: PROVIDE SIGNAGE AS REQUIRED BY IBC, ANSI, ADA, AND LOCAL CODES.

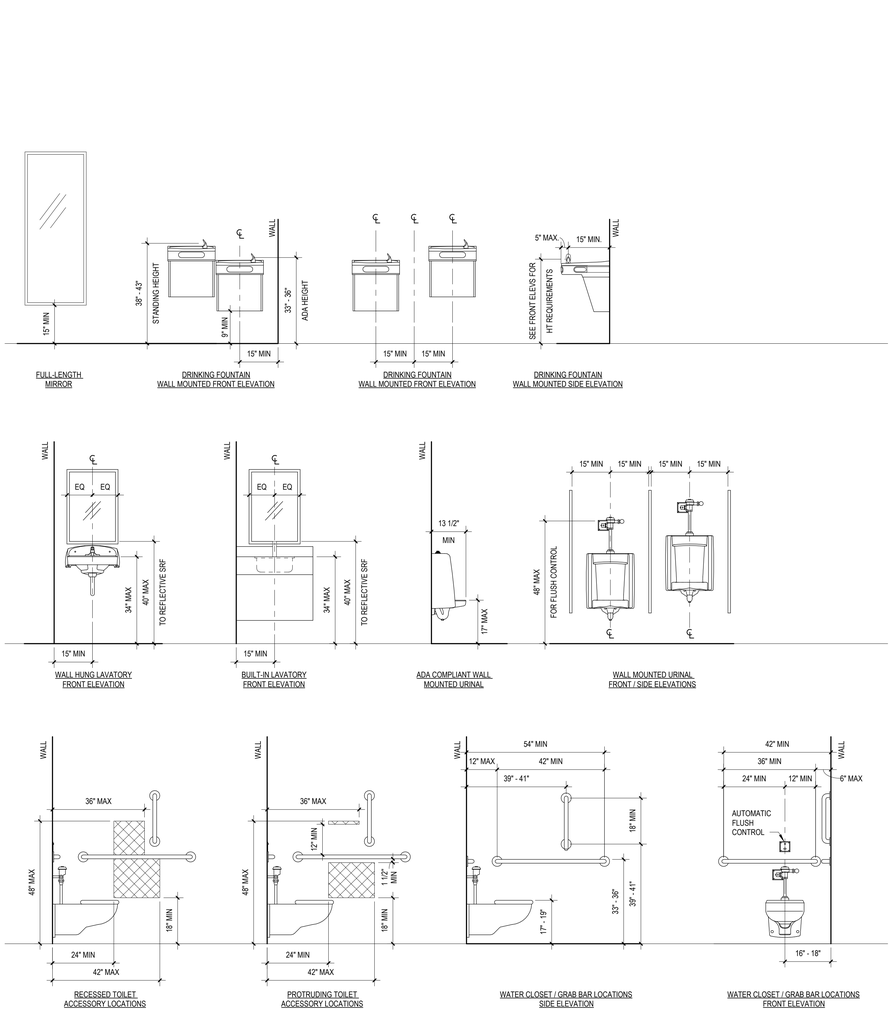
Symbol Legend - SIGNAGE

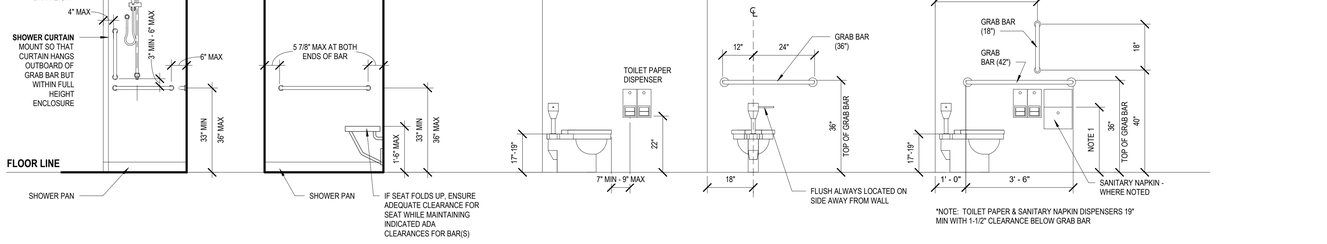
1/2" = 1'-0"

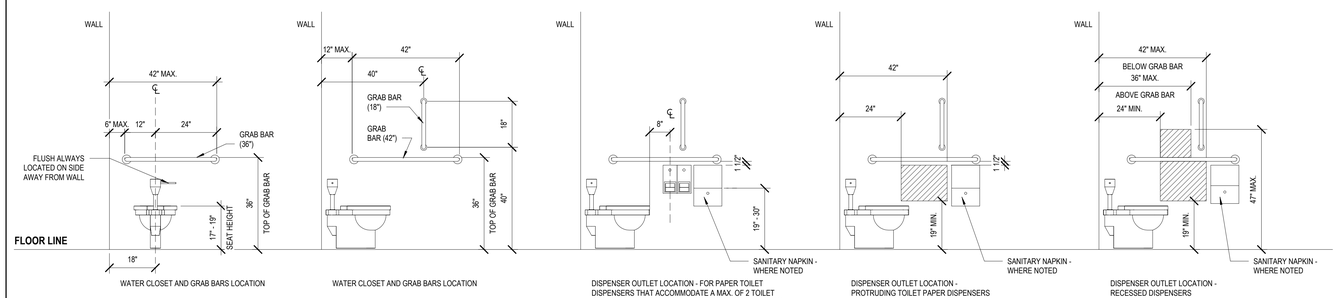
TYPICAL MOUNTING HEIGHTS











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B: 30% CONSTRUCTION DOCUMENTS

VIRGIN ISLANDS ZONING, BUILDING AND HOUSING LAWS & REGULATIONS

BUILDING CODE SUMMARY:
INTERNATIONAL CODE COUNCIL
UNIFORM PLUMBING CODE

PROJECT DESCRIPTION

NEW CONSTRUCTION OF FOUR-STORY OFFICE BUILDING ON PREVIOUSLY DISTURBED LAND. BUILDING TO BE A CONCRETE AND STEEL STRUCTURE, WITH IMPACT-RESISTANT GLAZING, MEMBRANE ROOF, AND THREE ELEVATORS. TENANT SPACE ON SECOND FLOOR FOR DOH MEDICAL CLINIC. BUILDING WILL BE EQUIPPED WITH TWO CHILLERS, ONE GENERATOR, A FIRE CISTERN TO SUPPORT THE SPRINKLER SYSTEM, AND ALL NEW UTILITIES. ALSO INCLUDED A CONCRETE PARKING DECK (ONE ELEVATED SLAB) AND ON-GRADE SURFACE PARKING.

APPLICABLE CODES & REGULATIONS

- [x] 2019 UNITED STATES VIRGIN ISLANDS ZONING, BUILDING AND HOUSING LAWS & REGULATIONS
- [x] 2024 INTERNATIONAL BUILDING CODE (IBC)
- [ ] 2024 INTERNATIONAL RESIDENTIAL CODE (IRC)
- [ ] 2024 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- [x] 2024 INTERNATIONAL FIRE CODE (IFC)
- [x] 2024 UNIFORM PLUMBING CODE (UPC)
- [x] 2024 INTERNATIONAL MECHANICAL CODE (IMC)
- [ ] 2024 INTERNATIONAL ZONING CODE (IZC)
- [ ] 2024 INTERNATIONAL FUEL GAS CODE (IFGC)
- [ ] 2024 INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC)
- [x] 2017 ICC A117.1 STANDARD FOR ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
- [x] 2010 DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN
- [ ] SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES
- [x] USVI DEPARTMENT OF PLANNING & NATURAL RESOURCES HISTORIC PRESERVATION GUIDELINES
- [x] OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION LAWS & REGULATIONS PART 1926
- [x] FEDERAL ENVIRONMENTAL HISTORICAL PRESERVATION
- [x] USVI DEPARTMENT OF PLANNING & NATURAL RESOURCES STORMWATER REGULATIONS

FEMA PROJECT IDENTIFICATION

PROJECT #	101918	P/W #	1361	TITLE	TMU2E18 - GM101918 - KNUD HANSEN BUILDING AND EQUIPMENT

GENERAL BUILDING INFO AND ZONING REQUIREMENTS

ADDRESS	1303 HOSPITAL GROUND ROAD				
ISLAND	STT	ESTATE	HOSPITAL GROUND		
HISTORIC DISTRICT (T.29 § 111)	NO				
CONSERVATION	[x] EARTH CHANGE PERMIT (T.12 § 533) [x] COASTAL ZONE MANAGEMENT PERMIT (T.12 § 539)				
FLOOD INSURANCE RISK MAP #	7800000028G				
FLOOD HAZARD ZONE	X				
ZONING DISTRICT (T.29 § 223)	P PUBLIC				
PERMITTED USE (T.29 § 228)	CIVIC, OFFICE, TENANT (OUTPATIENT CLINIC)				
CONDITIONAL USE (T.29 § 231)	N/A				
ACCESSORY USE (T.29 § 233)	N/A				
REQUIRED LOT AREA	N/A			ACTUAL	
MAXIMUM LOT OCCUPANCY	N/A			ACTUAL	
REQUIRED SETBACKS: MIN. FRONT YARD	N/A			ACTUAL	
REQUIRED SETBACKS: MIN. SIDE YARD	N/A			ACTUAL	
REQUIRED SETBACKS: MIN. SIDE YARD	N/A			ACTUAL	
REQUIRED SETBACKS: MIN. REAR YARD	N/A			ACTUAL	
MAXIMUM HEIGHT LIMIT	N/A	FEET / 6 STORIES		ACTUAL	60' FEET / 4 STORIES
MINIMUM LOT WIDTH	N/A			ACTUAL	
PERSONS PER ACRE LIMIT	N/A			ACTUAL	
PERMITTED DENSITY	N/A			ACTUAL	
USABLE OPEN SPACE	N/A			ACTUAL	
FLOOR AREA RATIO	N/A			ACTUAL	
SECONDARY KITCHEN RESTRICTION	[x] NO [ ] YES:				
VARIANCE REQUIRED	[x] NO [ ] YES:				
PARKING & LOADING REQUIRED (T.29 § 230)	[ ] NO [x] YES				
OFF-STREET PARKING REQUIREMENT	1 SPACE PER 5 EMPLOYEES 287 EMPLOYEES = 58 SPACES		1 SPACE PER 500 SF BUSINESS PATRONS = 78 SPACES		
OFF-STREET PARKING PROVIDED	282				
OFF-STREET LOADING REQUIREMENT	ONE (1) LOADING SPACE IS REQUIRED PER 20,000 SF OF GROSS FLOOR AREA.				
OFF-STREET LOADING PROVIDED	(4) SPACES 10' L x 50' W x 15' H				
PROXIMITY OF PARKING	ONSITE				
SCREENING AND LANDSCAPING	4' TALL WALL				
MINIMUM DISTANCE AND SETBACK	10'				
BUMPER GUARDS REQUIRED	YES				
PARKING AREA SURFACING	ASPHALT				
LIGHTING REQUIREMENTS	POST-MOUNTED DOWN LIGHTS				
CISTERN CAPACITY (T.29 § 308)	115,268 GALLONS				
EXTERIOR WALL ASSEMBLY	CONCRETE WITH SYNTHETIC STUCCO				
NET FLOOR AREAS (SQ.FT.) BASEMENT	12,297 SF				
NET FLOOR AREAS (SQ.FT.) 1ST FLOOR	18,056 SF				
NET FLOOR AREAS (SQ.FT.) 2ND FLOOR	22,908 SF				
NET FLOOR AREAS (SQ.FT.) 3RD FLOOR	23,236 SF				
NET FLOOR AREAS (SQ.FT.) TOTAL AREA	76,497 SF				
ROOF ASSEMBLY	STEEL FRAME WITH CONCRETE DECK AND MEMBRANE ROOFING				
ROOF AREA	25,615 SF				
STRUCTURE	[ ] METAL-FRAMED [ ] WOOD-FRAMED [x] STRUCTURAL STEEL [x] MASONRY/CONCRETE				

PROJECT INFORMATION

NAME OF PROJECT: KNUD HANSEN BUILDING AND EQUIPMENT
ADDRESS: 1303 HOSPITAL GROUND RD, ESTATE HOSPITAL GROUND
ST. THOMAS, USVI **ZIP CODE:** 00802
OWNER/AUTHORIZED AGENT: COMMISSIONER AVERIL GEORGE
PHONE: 340-774-0930 **EMAIL:** averil.george@dhs.vi.gov
OWNED BY: USVI DEPT OF HUMAN SERVICES [ ] CITY / COUNTY [ ] PRIVATE [x] STATE
3012 GOLDEN ROCK, CHRISTIANSTED, ST. CROIX, VI 00820
CODE ENFORCEMENT JURISDICTION: [x] CITY: ST. THOMAS, VI [ ] COUNTY: - [ ] STATE

CONTACT

DIVISION	FIRM	DESIGNER	LICENSE #	TELEPHONE #	EMAIL
ARCHITECTURAL	SPRINGLINE ARCHITECTS	JERRY TRAINO	-	843.437.8879	jerry.traino@novusa.com
CIVIL	HARRIS CIVIL ENGINEERS	NEIL WOLFE	-	407.629.4777	neilw@harriscivilengineers.com
ELECTRICAL	TLC ENGINEERING	STEPHEN COTTON	-	321.877.4295	stephen.cotton@tlc-eng.com
FIRE ALARM	TLC ENGINEERING	STEPHEN COTTON	-	321.877.4295	stephen.cotton@tlc-eng.com
PLUMBING	TLC ENGINEERING	JIM MULLEN	-	321.877.4260	jim.mullen@tlc-eng.com
MECHANICAL	TLC ENGINEERING	JIM MULLEN	-	321.877.4260	jim.mullen@tlc-eng.com
SPRINKLER-STANDPIPE	-	-	-	-	-
STRUCTURAL	TLC ENGINEERING	JOEL FIGUEROA-VALLINES	-	321.877.4231	joel.figueroa@tlc-eng.com
RETAINING WALL > 5' HIGH	TLC ENGINEERING	JOEL FIGUEROA-VALLINES	-	321.877.4231	joel.figueroa@tlc-eng.com

CODE APPLICATION

2024 IBC BUILDING CODE: [x] NEW BUILDING [ ] ADDITION [ ] RENOVATION
[ ] 1ST TIME INTERIOR COMPLETION
[ ] SHELL / CORE - CONTACT THE LOCAL INSPECTION JURISDICTION
[ ] PHASED CONSTRUCTION - SHELL / CORE - CONTACT THE LOCAL INSPECTION JURISDICTION
BUILDING RISK CATEGORY: (TABLE 1604.5): [ ] I [x] II [ ] III [ ] IV
LOCAL AMENDMENT(S): NONE
2024 IEBC EXISTING BUILDING CODE: [ ] PRESCRIPTIVE [ ] REPAIR [ ] CHAPTER 14
ALTERATION: [ ] LEVEL I [ ] LEVEL II [ ] LEVEL III
[ ] HISTORIC PROPERTY [ ] CHANGE OF USE
CONSTRUCTED: (DATE): 1983 **CURRENT OCCUPANCY ($)** (CH. 3): Vacant
RENOVATED: (DATE): Unknown **PROPOSED OCCUPANCY ($)** (CH. 3): Civic Offices

BUILDING DATA

CONSTRUCTION TYPE: (CHECK ALL THAT APPLY)
[ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
[ ] I-B [x] II-B [ ] III-AB [ ] V-B
SPRINKLERS: [ ] NO [ ] PARTIAL [x] YES
[ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
STANDPIPES: [ ] NO [x] YES CLASS [ ] I [ ] II [ ] III [x] WET [ ] DRY
FIRE DISTRICT: [x] NO [ ] YES **FLOOD HAZARD AREA:** [x] NO [ ] YES
SPECIAL INSPECTIONS REQUIRED: [ ] NO [ ] YES (EIFS SYSTEM)

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
BUILDING HEIGHT IN FEET (TABLE 504.3) [2]	IIB - 75'	+/- 60'	-
BUILDING HEIGHT IN STORIES (TABLE 504.4) [3]	IIB - 4 stories	4	-

1. PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
2. THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
3. THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

GROSS BUILDING AREA TABLE (FOOTPRINT)

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL (SQ FT)
THIRD FLOOR	N/A	24,752	24,752
MEZZANINE LEVEL	N/A	N/A	N/A
SECOND FLOOR	N/A	24,937	24,937
FIRST FLOOR	N/A	53,314	53,314
BASEMENT	N/A	52,012	52,012
TOTAL	**N/A**	179,767	179,767

OCCUPANCY

PRIMARY OCCUPANCY CLASSIFICATION ($): (SECTION 302)
ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
BUSINESS [x]
EDUCATIONAL [ ]
FACTORY [ ] F-1 MODERATE [ ] F-2 LOW
HAZARDOUS [ ] H-1 DETONATE [ ] H-2 DEFLAGRATE [ ] H-3 COMBUST [ ] H-4 HEALTH [ ] H-5 HPM
INSTITUTIONAL [ ] I-1 CONDITION [ ] 1 [ ] 2
[ ] I-2 CONDITION [ ] 1 [ ] 2
[ ] I-3 CONDITION [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
[ ] I-4
MERCANTILE [ ]
RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
STORAGE [ ] S-1 MODERATE [x] S-2 LOW [ ] HIGH PILED
[x] PARKING GARAGE [x] OPEN [x] ENCLOSED [ ] REPAIR GARAGE
UTILITY AND MISCELLANEOUS [ ]
ACCESSORY OCCUPANCY CLASSIFICATION(S): (SECTION 508.2) A-3
INCIDENTAL USES (TABLE 509.1):
[ ] FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT
[ ] ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
[ ] REFRIGERANT MACHINERY ROOM
[ ] HYDROGEN FUEL GAS ROOMS, NOT CLASSIFIED AS GROUP H
[ ] INCINERATOR ROOMS
[ ] PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
[ ] IN GROUP E OCCUPANCIES, LABORATORIES AND VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H
[ ] IN GROUP I-2 OCCUPANCIES, LABORATORIES NOT CLASSIFIED AS GROUP H
[ ] IN AMBULATORY CARE FACILITIES, LABORATORIES NOT CLASSIFIED AS GROUP H
[ ] LAUNDRY ROOMS OVER 100 SQUARE FEET
[ ] IN GROUP I-2, LAUNDRY ROOMS OVER 100 SQUARE FEET
[ ] IN GROUP I-2, PHYSICAL PLANT MAINTENANCE SHOPS
[ ] IN AMBULATORY CARE FACILITIES OR GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS WITH CONTAINERS THAT HAVE AN AGGREGATE VOLUME OF 10 CUBIC FEET OR GREATER
[ ] WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET (NOT AMBULATORY CARE OR GROUP I-2)
[ ] IN AMBULATORY CARE FACILITIES OR GROUP I-2 OCCUPANCIES, STORAGE ROOMS GREATER THAN 100 SQUARE FEET
[ ] ELECTRICAL INSTALLATIONS AND TRANSFORMERS
SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS FROM SECTION 401): 406
SPECIAL PROVISIONS: (CHAPTER 5 - SECTION 10 - LIST CODE SECTIONS):
[ ] 510.2 [ ] 510.3 [ ] 510.4 [ ] 510.5 [ ] 510.6 [x] 510.7 [ ] 510.8 [ ] 510.9
MIXED OCCUPANCY: [ ] NO [x] YES SEPARATION: - HR EXCEPTION: -

[x] NON-SEPARATED USE (508.3)	THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
[ ] SEPARATED USE (508.4)	SEE BELOW FOR AREA CALCULATIONS OF EACH STORY. THE AREA OF THE OCCUPANCY SHALL BE THE SUM OF THE RATIO OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B ≤ 1
___ + ___ + ... = ___ ≤ 1.00

BUILDING AREA

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 [4] AREA	(C) AREA FOR FRONTAGE INCREASE [1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED [2,3]
B	Office (B) and Parking (S-2)	44,122 SF	69,000 SF	34,500 SF	103,500 SF
1	Office (B) and Parking (S-2)	38,830 SF	69,000 SF	34,500 SF	103,500 SF
M	-	-	-	-	-
2	Office (B)	15,011 SF	69,000 SF	-	69,000 SF
3	Office (B)	21,602 SF	69,000 SF	-	69,000 SF
4	-	-	-	-	-
	TOTAL BUILDING	119,565 SF	276,000 SF	-	345,000 SF

1. FRONTAGE AREA INCREASES FROM SECTION 506.3 ARE COMPUTED THUS:
   A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = _____ (F)
   B. TOTAL BUILDING PERIMETER = _____ (P)
   C. RATIO (F/P) = _____ (W)
   D. W = MIN. WIDTH OF PUBLIC WAY = 20 _____ (W)
   E. PERCENT OF FRONTAGE INCREASE: 100 F/P - 0.25) X W/30 = ___50___ (%)
2. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
3. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING + D (MAXIMUM 3 STORIES) (506.2)
4. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.
5. FRONTAGE INCREASE IS BASED ON THE SPRINKLERED AREA VALUE IN TABLE 506.2.

FIRE PROTECTION REQUIREMENTS

		RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
STRUCTURAL FRAME TO INCLUDE COLUMNS, GIRDERS, AND TRUSSES		0	-	-	-	-	-
BEARING WALLS	FSD (FEET)						
EXTERIOR		0					
INTERIOR		0	-	-	-	-	-
NON-BEARING WALLS EXTERIOR	Table 705.5						
NORTH	17'-11"	0	-	-	-	-	-
EAST	11'-4"	0	-	-	-	-	-
WEST (parking deck)	35'-0"	0	-	-	-	-	-
SOUTH	28'-0"	0	-	-	-	-	-
INTERIOR WALLS AND PARTITIONS		0	-	-	-	-	-
FLOOR CONSTRUCTION TO INCLUDE SUPPORTING BEAMS AND JOISTS		0	-	-	-	-	-
FLOOR CEILING ASSEMBLIES		0	-	-	-	-	-
COLUMNS SUPPORTING FLOORS		0	-	-	-	-	-
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0	-	-	-	-	-
ROOF CEILING ASSEMBLIES		0	-	-	-	-	-
COLUMNS SUPPORTING ROOFS		0	-	-	-	-	-
SHAFT ENCLOSURES - EXIT		2	- 2	-	2024 IBC (722.2.1.1)		-
SHAFT ENCLOSURES - OTHER		1	1	-	U419	-	-
CORRIDOR SEPARATION		0	-	-	-	-	-
OCCUPANCY / FIRE BARRIER SEPARATION		1	1	-	U419	-	-
PARTY / FIRE WALL SEPARATION		NA		-	-	-	-
SMOKE BARRIER SEPARATION		NA		-	-	-	-
SMOKE PARTITION		NA		-	-	-	-
TENANT / DWELLING UNIT / SLEEPING UNIT SEPARATION		NA		-	-	-	-
INCIDENTAL USE SEPARATION		NA					

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PROJECTIONS T706.2

FIRE SEPARATION DISTANCE (FEET)	MINIMUM DISTANCE FROM LINE USED TO DETERMINE FSD	ALLOWABLE DISTANCE	ACTUAL DISTANCE
5'-5"	40 inches	-	-
-	-	-	-
-	-	-	-

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENINGS PROTECTION (TABLE 705.9)	ALLOWABLE AREA (%)	ACTUALLY SHOWN ON PLANS (%)
EAST WALLS 11'-4"	UNPROTECTED, SPRINKLERED	45%	13.2%
NORTH WALLS 17'-11"	UNPROTECTED, SPRINKLERED	75%	29%
WEST WALLS 33'-0"	UNPROTECTED, SPRINKLERED	NL	NL
SOUTH WALLS 28'-0"	UNPROTECTED, SPRINKLERED	NL	NL

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING:	[x] YES	[ ] NO	
EXIT SIGNS:	[x] YES	[ ] NO	
FIRE ALARM:	[x] YES	[ ] NO	
SMOKE DETECTION SYSTEMS:	[x] YES	[ ] NO	[ ] PARTIAL
CARBON MONOXIDE DETECTION:	[ ] YES	[x] NO	

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEETS #: G102, G103, G104
- [x] FIRE AND / OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
- [x] ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN)
- [x] EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.9)
- [x] OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (1004.5)
- [x] OCCUPANT LOADS FOR EACH AREA
- [x] EXIT ACCESS TRAVEL DISTANCES (1017)
- [x] COMMON PATH OF TRAVEL DISTANCES (TABLES 1006.2.1 & 1006.3.2 (1))
- [x] DEAD END LENGTHS (1020.5)
- [x] CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- [x] MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
- [x] ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
- [x] A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE-RATED FLOOR / CEILING AND / OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
- [x] LOCATION OF DOORS WITH PANIC HARDWARE (1010.2.8)
- [x] LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.2.12)
- [x] LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.2.10)
- [x] LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
- [ ] LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) N/A
- [x] THE SQUARE FOOTAGE OF EACH FIRE AREA (202)
- [ ] THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5) N/A
- [ ] NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE. N/A

EXIT ARRANGEMENT BY DISTANCE - (REFERENCE LIFE SAFETY PLAN SHEETS: G102, G103, G104)

BUILDING STORY OR SPACE DESIGNATION	NUMBER OF EXITS (TABLE 1006.3.3) [1] MINIMUM REQUIRED	NUMBER OF EXITS (TABLE 1006.3.3) [1] ACTUAL PROVIDED	TRAVEL DISTANCE (TABLE 1017.2) [1,2] MAX ALLOWABLE	TRAVEL DISTANCE (TABLE 1017.2) [1,2] ACTUAL PROVIDED	ARRANGEMENT OF MEANS OF EGRESS (SECTION 1007) REQUIRED DISTANCE BETWEEN EXITS	ARRANGEMENT OF MEANS OF EGRESS (SECTION 1007) ACTUAL PROVIDED
LOWER FLOOR	2	5	300'	117'-11"	53'-10"	105'-2"
MAIN FLOOR	2	6	300'	120-11"	74'-11"	117'-9"
SECOND FLOOR	2	2	300'	127'-7"	61'-7"	110'-6"
THIRD FLOOR	2	3	300'	127'-2"	56'	78'-11"
LOWER PARKING	2	2	300'	221'-11"	100'-9"	172'-11"
MAIN PARKING	2	2	200'	194'-3"	125'-6"	138'-0"

EGRESS WIDTH BY OCCUPANT LOAD

USE GROUP OR SPACE DESIGNATION	AREA USING MEANS OF EGRESS (SQFT) [1]	LOAD FACTOR (TABLE 1004.5) [1]	(E) CALCULATED OCCUPANCY LOAD	(b) EGRESS WIDTH FACTOR (1005.3) STAIR	(b) EGRESS WIDTH FACTOR (1005.3) OTHER	EGRESS WIDTH (inches) REQUIRED WIDTH (a x b) [2,3] STAIR	EGRESS WIDTH (inches) REQUIRED WIDTH (a x b) [2,3] OTHER	EGRESS WIDTH (inches) ACTUAL WIDTH (cumulative) STAIR	EGRESS WIDTH (inches) ACTUAL WIDTH (cumulative) OTHER
LOWER SOUTH		@150 PSF	80	0.2	0.15	16	12	96	48
LOWER PARKING		@200 PSF	153	0.2	0.15	30.6	22.95	66	48
MAIN NORTH		SEE PLAN	136	0.2	0.15	27.2	20.4	96	48
MAIN SOUTH		SEE PLAN	116	0.2	0.15	23.2	17.4	-	168
MAIN PARKING		@200 PSF	119	0.2	0.15	23.8	17.85	-	108
SECOND SOUTH		@150 PSF	101	0.2	0.15	20.2	15.15	96	-
THIRD NORTH		SEE PLAN	93	0.2	0.15	18.6	13.95	96	-
THIRD SOUTH		@150 PSF	136	0.2	0.15	27.2	20.4	96	-
-		-	-	-	-	-	-	-	-

1. SEE TABLE 1004.5 TO DETERMINE USE OF NET AREA OR GROSS AREA.
2. ONLY USE CALCULATED WIDTH IF IT EXCEEDS:
   A. MINIMUM STAIR WIDTH (SECTION 1011.2) *44 INCHES*
   B. MINIMUM CORRIDOR WIDTH (TABLE 1020.3) *44 INCHES*
   C. MINIMUM DOOR WIDTH (SECTION 1010.1.1) *32 INCHES*
   D. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024.2) *44 INCHES*
3. FOR ASSEMBLY OCCUPANCIES, SEE SECTION 1030.

INTERIOR FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.13) [K]

GROUP	SPRINKLERED [I] INTERIOR EXIT STAIRWAYS, RAMPS, AND EXIT PASSAGEWAYS [A,B]	SPRINKLERED [I] CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	SPRINKLERED [I] ROOMS AND ENCLOSED SPACES	NONSPRINKLERED INTERIOR EXIT STAIRWAYS, RAMPS, AND EXIT PASSAGEWAYS [A,B]	NONSPRINKLERED CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	NONSPRINKLERED ROOMS AND ENCLOSED SPACES
[ ] A-1, A-2	B	B	C	A	A[D]	B
[ ] A-3, A-4, A-5	B	B	C	A	A[D]	C
[x] B, E, M, R-1	B	C[M]	C	A	B	C
[ ] R-4	B	C	C	A	B	B
[ ] F	C	C	C	B	C	C
[ ] H	B	B	C[O]	A	A	B
[ ] I-1	B	C	C	A	B	B
[ ] I-2	B	B	B[N,I]	A	A	B
[ ] I-3	A	A[J]	C	A	A	B
[ ] I-4	B	B	B[N,I]	A	A	B
[ ] R-2	C	C	C	B	B	C
[ ] R-3	C	C	C	C	C	C
[ ] S	C	C	C	B	B	C
[ ] U	NO RESTRICTIONS			NO RESTRICTIONS		

A. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED FOR WAINSCOTTING OR PANELING OF NOT MORE THAN 1,000 SQUARE FEET OF APPLIED SURFACE AREA IN THE GRADE LOBBY WHERE APPLIED DIRECTLY TO A NONCOMBUSTIBLE BASE OR OVER FURRING STRIPS APPLIED TO A NONCOMBUSTIBLE BASE AND FIREBLOCKED AS REQUIRED BY SECTION 803.15.1.
B. IN OTHER THAN GROUP I-3 OCCUPANCIES IN BUILDINGS LESS THAN THREE STORIES ABOVE GRADE PLANE, CLASS B INTERIOR FINISH FOR NONSPRINKLERED BUILDINGS AND CLASS C INTERIOR FINISH FOR SPRINKLERED BUILDINGS SHALL BE PERMITTED IN INTERIOR EXIT STAIRWAYS AND RAMPS.
C. REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES SHALL BE BASED ON SPACES ENCLOSED BY PARTITIONS. WHERE A FIRE-RESISTANCE RATING IS REQUIRED FOR STRUCTURAL ELEMENTS, THE ENCLOSING PARTITIONS SHALL EXTEND FROM THE FLOOR TO THE CEILING. PARTITIONS THAT DO NOT COMPLY WITH THIS SHALL BE CONSIDERED TO BE ENCLOSING SPACES AND THE ROOMS OR SPACES ON BOTH SIDES SHALL BE CONSIDERED TO BE ONE ROOM OR SPACE. IN DETERMINING THE APPLICABLE REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES, THE SPECIFIC OCCUPANCY THEREOF SHALL BE THE GOVERNING FACTOR REGARDLESS OF THE GROUP CLASSIFICATION OF THE BUILDING OR STRUCTURE.
D. LOBBY AREAS IN GROUP A-1, A-2 AND A-3 OCCUPANCIES SHALL BE NOT LESS THAN CLASS B MATERIALS.
E. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED IN PLACES OF ASSEMBLY WITH AN OCCUPANT LOAD OF 300 PERSONS OR LESS.
F. FOR PLACES OF RELIGIOUS WORSHIP, WOOD USED FOR ORNAMENTAL PURPOSES, TRUSSES, PANELING OR CHANCEL FURNISHING SHALL BE PERMITTED.
G. CLASS B MATERIAL IS REQUIRED WHERE THE BUILDING EXCEEDS TWO STORIES.
H. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED IN ADMINISTRATIVE SPACES.
I. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED IN ROOMS WITH A CAPACITY OF FOUR PERSONS OR LESS.
J. CLASS B MATERIALS SHALL BE PERMITTED AS WAINSCOTTING EXTENDING NOT MORE THAN 48 INCHES ABOVE THE FINISHED FLOOR IN CORRIDORS AND EXIT ACCESS STAIRWAYS AND RAMPS.
K. FINISH MATERIALS AS PROVIDED FOR IN OTHER SECTIONS OF CHAPTER 8.
L. APPLIES WHEN PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.
M. CORRIDORS IN AMBULATORY CARE FACILITIES SHALL BE PROVIDED WITH CLASS A OR B MATERIALS.

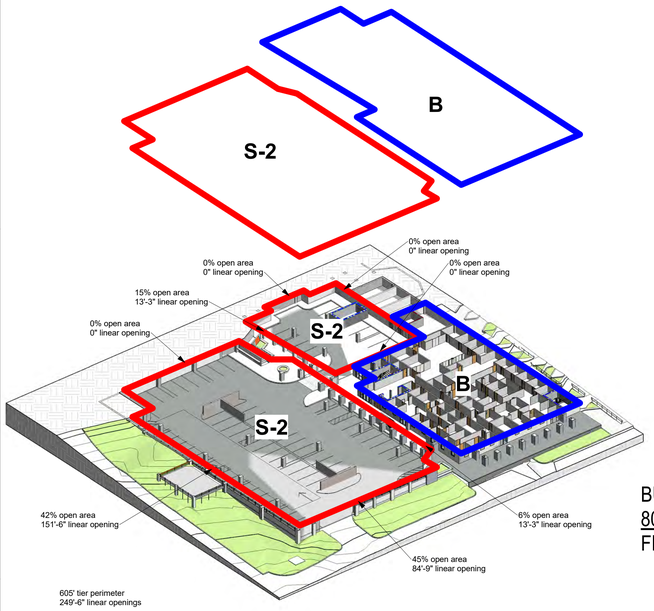
ACCESSIBLE PARKING

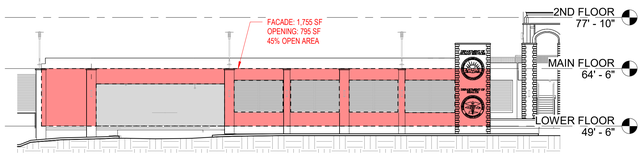
LOT OR PARKING AREAS	TOTAL # OF PARKING SPACES ZONING REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	TOTAL # OF PARKING SPACES ACCESSIBLE REQUIRED	# ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE	# ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 132" ACCESS AISLE	# ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
Lower deck		71		2	1		3
Upper deck		69		3			3
Surface lot		142		3			3
TOTAL	136	282	7	8	1		9

ENERGY CONSERVATION CODE EQUIREMENTS

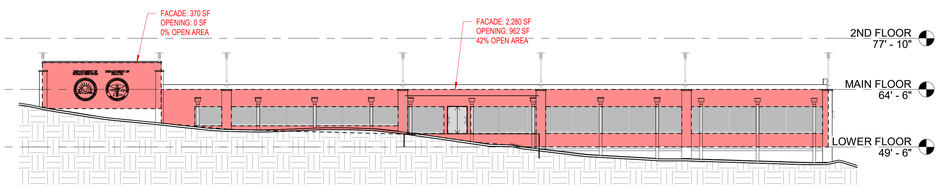
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS. ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: [ ] NO [ ] YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)
EXEMPT BUILDING: [x] NO [ ] YES (PROVIDE CODE OR STATUTORY REFERENCE)
CLIMATE ZONE:





C1 SOUTH FACADE OPENINGS
G102 1/16" = 1'-0"



B1 WEST FACADE OPENINGS
G102 1/16" = 1'-0"

1-HR RATED FIRE BARRIER:
FIRE PUMP (0012): C.I.P. CONCRETE, SEE SHT. G201 AND UL DES. U419, SHT. G202

2-HR RATED FIRE BARRIER:
STAIR 1: CIP CONCRETE, SEE SHT G201

DIAGONAL OF AREA SERVED BY EGRESS COMPONENTS = 161'-8"

2-HR RATED FIRE BARRIER:
STAIR 3: CIP CONCRETE, SEE G201

BELOW GRADE

EXIT DOOR
160 | 80
32" CLEAR

TRAVEL DISTANCE
175' - 5" < 300'

11,935 SF BUSINESS (B) USE
80 OCCUPANTS
@ 150 GROSS SF PER OCCUPANT

ENCLOSED PARKING GARAGE
SPRINKLER PROTECTED
6,130 SF

75' - 6"

86' - 4"

TENANT, NIC
130 SF BUSINESS (B) USE
1 OCCUPANT
ONE EXIT PROVIDED

BUILDING:
80 OCCUPANTS
FIVE EXITS PROVIDED

NATURAL VENTILATION AREA: 199 SF

DEPTH=15'
CLEAR SPACE 1.5xD = MIN 22.5'
8'10" + 4'9" = 13'3"
13.25' x 15' = 199 SF

REQUIRED AREA
A = 0.04(LxW)
A = 0.04(6130)
A = 245 SF MIN

8'-10"
4'-5"
15'
4'-2"
5'-5"
2'-7"

STAIR 4

BELOW GRADE

PARKING LOT:
153 OCCUPANTS
TWO EXITS PROVIDED

30,430 SF PARKING (S-2) USE
153 OCCUPANTS
@ 200 GROSS SF PER OCCUPANT

98' - 2"

17' - 4"

BELOW GRADE

GENERATOR
ABOVE

OPEN PARKING DECK
SPRINKLER PROTECTED
24,300 SF

CHILLERS

24' - 10"

174' - 8"

204' - 8"

173' - 1"

302' - 5"

STAIR 5

STAIR 2

STAIR 3

8' - 5"
FSD

EXIT DOOR
160 | 160
32" CLEAR
(09) OCCUPANTS SERVED FROM MAIN LEVEL
(131) OCCUPANTS SERVED FROM 2ND & 3RD FLOORS

EXIT DOOR
160 | 18
32" CLEAR

TRAVEL DISTANCE
117' - 11" < 300'

MIN. DIST. BETWEEN EXITS @ 1/3 MAX. DIAGONAL = (+/-) 53'-10"
ACTUAL DIST. BETWEEN EXITS = 105'-2"

EXIT DOOR
160 | 18
32" CLEAR

PUBLIC RIGHT OF WAY

2-HR RATED FIRE BARRIER:
STAIR 1, ELEVATOR SHAFTS (3 PER)

CIP CONCRETE, SEE G201

PROPERTY LINE

MIN. DIST. BETWEEN EXITS @ 1/3 MAX. DIAGONAL = (+/-) 57'-7"
ACTUAL DIST. BETWEEN EXITS = 172'-11"

TRAVEL DISTANCE
221' - 11" < 300'

DIAGONAL OF AREA SERVED BY EGRESS COMPONENTS = 302'-5"

NEW ELECTRICAL TRANSFORMER

PROPERTY LINE

B3 LOWER FLOOR LIFE SAFETY PLAN
G102 1/16" = 1'-0"

LIFE SAFETY LEGEND

REFER TO ELECTRICAL FOR COMPLETE LIST

- FEC - FIRE EXTINGUISHER CABINET, SEMI-RECESSED
- EXIT SIGN
- DOOR PROVIDED W/ PANIC HARDWARE OR PUSH/PULL
- EGRESS Load | Max 33.0" CLEAR OPENING — Max - EXIT CAPACITY OF DOOR; Load - ANTICIPATED LOAD THROUGH DOOR; CLEAR - CLEAR EXIT DOOR WIDTH (INCHES)
- DIAGONAL OF BUILDING OR AREA
- DISTANCE BETWEEN EXIT DOORS
- EGRESS TRAVEL PATH
- ASSEMBLY A-3 USE
- BUSINESS B USE
- PARKING S-2 USE
- NOT IN SCOPE

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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C	60% CDs	
D	90% CDs	
E	100% CDs	

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1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

LIFE SAFETY PLAN - LOWER

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REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
G102

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BUILDING:
247 OCCUPANTS
SIX EXITS PROVIDED

1,546 SF ASSEMBLY (A-3)
ACCESSORY TO B USE

104 OCCUPANTS
@ 15 NET SF PER OCCUPANT

2-HR RATED FIRE BARRIER:
STAIR 1: CIP CONCRETE, SEE SHT G201
EXIT CORRIDOR(1019): UL DES U419, SEE SHT G202

15,063 SF BUSINESS (B) USE

101 OCCUPANTS
@ 150 GROSS SF PER OCCUPANT

TENANT, NIC
296 SF BUSINESS (B) USE
2 OCCUPANTS
ONE EXIT PROVIDED

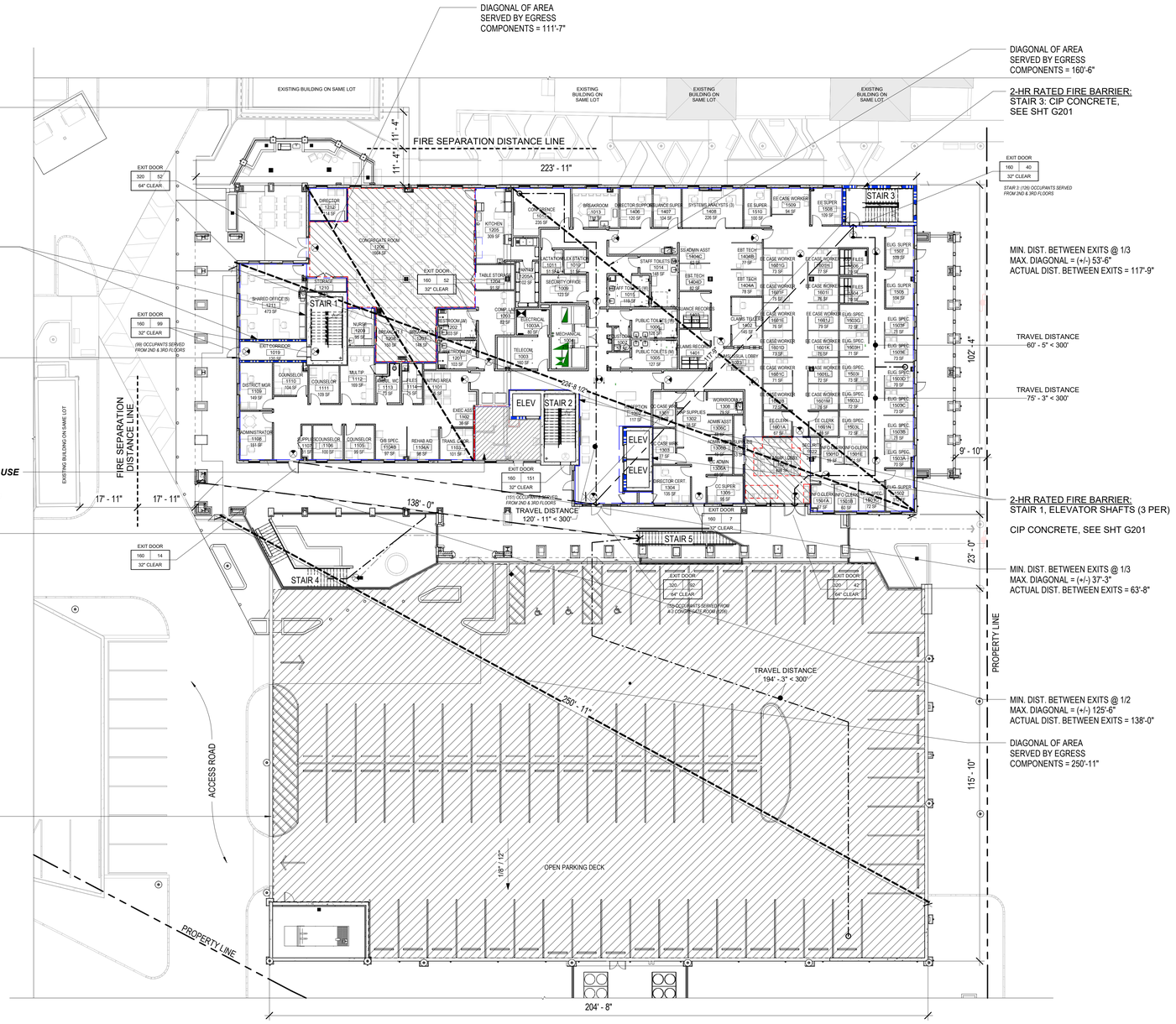
208 SF ASSEMBLY (A-3)
ACCESSORY TO B USE

42 OCCUPANTS
@ 5 NET SF PER OCCUPANT

PARKING DECK:
119 OCCUPANTS
TWO EXITS PROVIDED

23,816 SF PARKING (S-2) USE

119 OCCUPANTS
@ 200 GROSS SF PER OCCUPANT



B3 MAIN FLOOR LIFE SAFETY PLAN
G103 1/16" = 1'-0"

LIFE SAFETY LEGEND

REFER TO ELECTRICAL FOR COMPLETE LIST

- FEC - FIRE EXTINGUISHER CABINET, SEMI-RECESSED
- EXIT SIGN
- P — DOOR PROVIDED W/ PANIC HARDWARE OR PUSH/PULL
- EGRESS Load | Max 33.5" CLEAR (OPENING DIRECT) — Max - EXIT CAPACITY OF DOOR; Load - ANTICIPATED LOAD THROUGH DOOR; CLEAR - CLEAR EXIT DOOR WIDTH (INCHES)
- DIAGONAL OF BUILDING OR AREA
- DISTANCE BETWEEN EXIT DOORS
- EGRESS TRAVEL PATH

- ASSEMBLY A-3 USE
- BUSINESS B USE
- PARKING S-2 USE
- NOT IN SCOPE

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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C	60% CDs	
D	90% CDs	
E	100% CDs	

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St. Thomas, US. Virgin Islands 00802

LIFE SAFETY PLAN - MAIN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

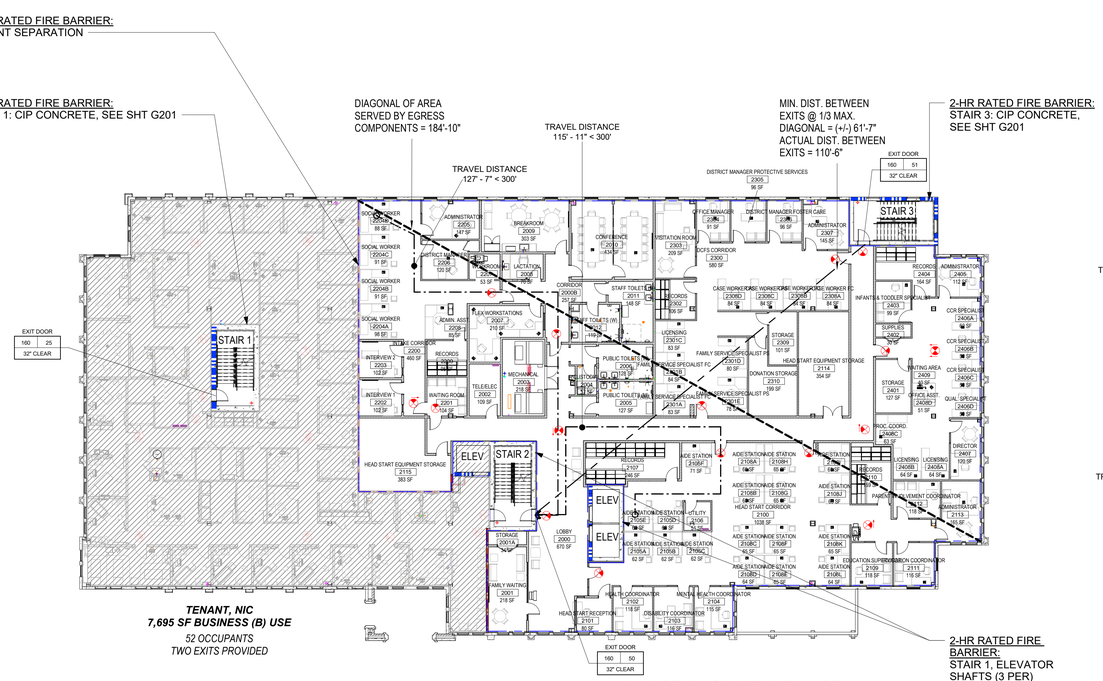
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010-9-101918

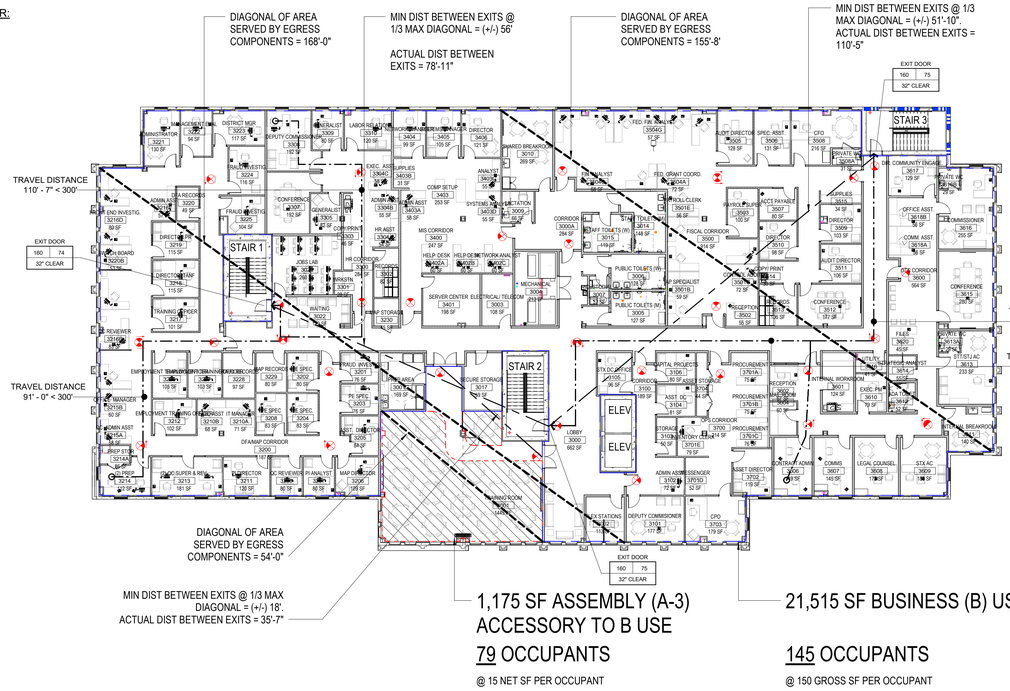
SHEET NUMBER
G103

B: 30% CONSTRUCTION DOCUMENTS

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B1 2ND FLOOR LIFE SAFETY PLAN
G104 1/16" = 1'-0"



B4 3RD FLOOR LIFE SAFETY PLAN
G104 1/16" = 1'-0"

LIFE SAFETY LEGEND

REFER TO ELECTRICAL FOR COMPLETE LIST

- FEC - FIRE EXTINGUISHER CABINET, SEMI-RECESSED
- EXIT SIGN
- P — DOOR PROVIDED W/ PANIC HARDWARE OR PUSH/PULL
- EGRESS (Load | Max; 33.5" CLEAR (APPROXIMATE)) — Max - EXIT CAPACITY OF DOOR; Load - ANTICIPATED LOAD THROUGH DOOR; CLEAR - CLEAR EXIT DOOR WIDTH (INCHES)
- DIAGONAL OF BUILDING OR AREA
- DISTANCE BETWEEN EXIT DOORS
- EGRESS TRAVEL PATH
- ASSEMBLY A-3 USE
- BUSINESS B USE
- PARKING S-2 USE
- NOT IN SCOPE

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION — TO CEILING +6"
- 1 HOUR FIRE BARRIER — TO DECK ABOVE
- 1 HOUR SMOKE BARRIER — (ACOUSTIC / INSULATED) TO CEILING +6"
- 2 HOUR FIRE BARRIER — (ACOUSTIC / INSULATED) TO DECK ABOVE
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

LIFE SAFETY PLAN - UPPER

NOT FOR CONSTRUCTION

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

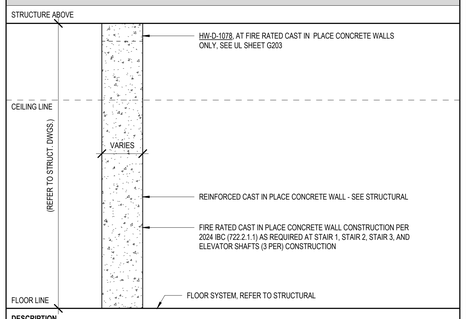
NOVUS JOB NUMBER
470-23-49

ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
G104

B: 30% CONSTRUCTION DOCUMENTS

CAST IN PLACE WALLS

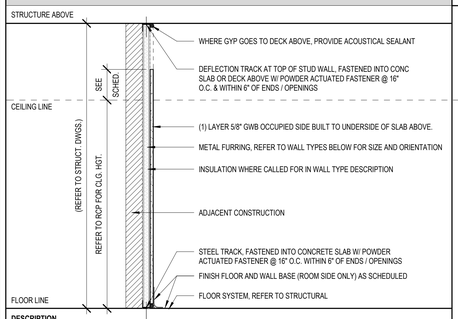


DESCRIPTION

CAST IN PLACE CONCRETE WALLS SHALL BE SITE CAST IN REMOVABLE FORM WORK CONFORMING TO SPECIFICATIONS AND DETAILS IN STRUCTURAL DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS AND CONNECTIONS TO FLOOR AND ROOF SLABS AND RELATIONSHIP TO OTHER STRUCTURAL ASSEMBLIES.
REFER TO WALL TYPES TABLE BELOW FOR WALL THICKNESS AND FIRE RATING REQUIREMENTS.

TAG	STUD	U L #	FIRE RATING	TYPE COMMENTS
C11	6"	-	-	
C13	6"	-	1HR	
C21	8"	-	-	
C41	12"	-	-	
C43	12"	-	1HR	
C45	10"	--	2HR	

FURRING

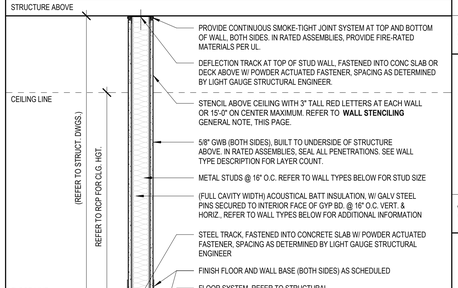


DESCRIPTION

METAL STUDS @ 16" OC (1) LAYER OF 5/8" GYP BD ON OCCUPIED SIDE. EXTEND TO UNDERSIDE OF DECK ABOVE UNLESS NOTED OTHERWISE. REFER TO WALL TYPES TABLE BELOW FOR INSULATION INFORMATION.

TAG	STUD / CHANNEL	HEIGHT	INSULATION	TYPE COMMENTS
F01	1/2" RESILIENT CHANNEL	CLG +6"	-	RUN CHANNELS HORIZONTALLY, TYP.
F12	1-5/8" METAL STUD (SQUARE)	CLG +6"	-	
F13	2-1/2" METAL STUD	CLG +6"	-	
F24	2-1/2" METAL STUD	TO DECK	R-5.7 MIN	

RATED AND/OR SMOKE-RESISTANT

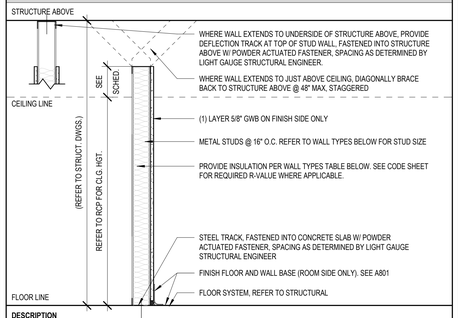


DESCRIPTION

METAL STUDS @ 16" OC. PROVIDE 5/8" GYP BD ON EACH SIDE, SEE WALL TYPES TABLE BELOW FOR LAYER COUNT AND GYP TYPE. EXTEND TO UNDERSIDE OF DECK ABOVE AND SEAL. IN RATED ASSEMBLIES, PROVIDE FIRE-RATED MATERIALS PER UL. REFER TO WALL TYPES TABLE BELOW FOR STUD SIZE AND INSULATION INFORMATION. REFER TO **WALL STENCILING** GENERAL NOTES, THIS PAGE.

TAG	STUD	UL #	RATING	INSULATION	TYPE COMMENTS
M47	6"	U419	1 HR	SOUND BATT	(1) LAYER TYPE 'X' GYP EACH SIDE.
M49	6"	U419	2 HR	SOUND BATT	(2) LAYERS TYPE 'X' GYP EACH SIDE.

COMMON PARTITIONS: FINISH ONE SIDE

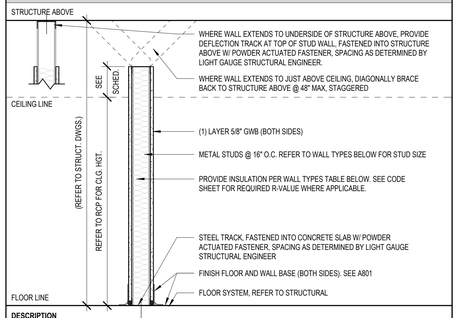


DESCRIPTION

METAL STUDS @ 16" OC WITH (1) LAYER OF 5/8" GYP BD, ONE SIDE. SEE WALL TYPES TABLE BELOW FOR STUD SIZE AND ADDITIONAL INFORMATION.

TAG	STUD	HEIGHT	INSULATION	TYPE COMMENTS
M21	3-5/8"	CLG +6"	-	
M22	3-5/8"	TO DECK	-	
M62	6"	TO DECK	-	

COMMON PARTITIONS



DESCRIPTION

METAL STUDS @ 16" OC WITH (1) LAYER OF 5/8" GYP BD, EACH SIDE. SEE WALL TYPES TABLE BELOW FOR STUD SIZE AND ADDITIONAL INFORMATION.

TAG	STUD	HEIGHT	INSULATION	TYPE COMMENTS
M01	3-5/8"	CLG +6"	-	
M02	3-5/8"	TO DECK	-	
M03	3-5/8"	CLG +6"	SOUND BATT	
M04	3-5/8"	TO DECK	SOUND BATT	
M41	6"	CLG +6"	-	
M43	6"	CLG +6"	SOUND BATT	
M44	3-5/8"	TO DECK	SOUND BATT	

GENERAL PARTITION NOTES

1. AT NEW WALLS, PLAN DIMENSIONS ARE TO FACE OF CORE (STUD, CMU, CONCRETE, ETC), AT EXISTING WALLS, PLAN DIMENSIONS ARE TO FINISH FACE UNLESS SPECIFICALLY NOTED OTHERWISE.
2. REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS AND RATINGS.
3. AT ALL UL RATED WALLS THAT EXTEND TO THE STRUCTURE ABOVE, FILL VOIDS SOLID WITH MINERAL WOOL INSULATION WHERE WALL IS FRAMED AROUND BEAMS, BAR JOISTS, SLABS, AND ROOF DECK. MAINTAIN SCHEDULED SOUND RATING.
4. AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS: PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES. SUBMIT COMPLETE JOINT SYSTEM PRODUCT INFORMATION FOR ALL CONDITIONS.
5. GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM.
6. AT ALL SOUND RATED WALLS, PROVIDE FLEXIBLE SEALANT OR AN ACOUSTICAL GASKET BETWEEN THE STC RATED SYSTEM AND ALL DISSIMILAR SURFACES (E.G. PENETRATIONS) AND ALSO BETWEEN THE SYSTEM AND SIMILAR SURFACES WHERE PERIMETER RELIEF IS REQUIRED. ALL OPENINGS THROUGH THE SYSTEM, AND ITS ENTIRE PERIMETER, SHALL BE SEALED AIRTIGHT. TAPING GYPSUM BOARD WALL AND WALL-CEILING INTERSECTIONS PROVIDES AN ADEQUATE AIR SEAL AT THESE LOCATIONS.
7. WHERE INDICATED BY WALL TYPE, SOUND ATTENUATION BLANKET SHALL RUN FULL HEIGHT OF PARTITION. SOUND ATTENUATION BATT SHALL BE MADE OF MINERAL WOOL OR OTHER UL APPROVED MATERIAL.
8. PROVIDE TYPE X, MOLD AND MOISTURE RESISTANT GYPSUM BOARD IN ALL TOILET AND JANITOR ROOMS.
9. PROVIDE CEMENT BOARD IN ALL WET SHOWER AREA WALLS WITH TILE FINISH.
10. ANY PORTION OF GYPSUM BOARD THAT BECOMES WET OR SHOWS SIGNS OF MOISTURE DAMAGE, EITHER BEFORE OR AFTER INSTALLATION, IS TO BE REMOVED IMMEDIATELY AND REPLACED WITH NEW DRY GYPSUM BOARD.
11. INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES, SUCH AS WALL TILES OR WOOD PANELING. SEE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
12. GYPSUM BOARD ON WALLS SHALL BE APPLIED WITH A MINIMUM 1/4 " GAP BETWEEN THE GYPSUM BOARD AND THE FLOOR AND SHALL NOT BE APPLIED OVER OTHER BUILDING MATERIALS WHERE CONDITIONS EXIST THAT ARE FAVORABLE TO MOLD GROWTH.
13. GENERAL CONTRACTOR SHALL VERIFY SPACING AND GAUGE OF INTERIOR STUDS, LIMITING HEIGHTS AND ALLOWABLE DEFLECTION FOR SPECIFIC APPLICATIONS BASED ON MANUFACTURERS REQUIREMENTS. AT A MINIMUM STUDS SHALL BE 20 GAUGE OR GREATER.
14. GENERAL CONTRACTOR SHALL COORDINATE ROOF DRAIN LEADER LOCATIONS WITHIN WALLS.
15. GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL MILLWORK, CASEWORK, GRAB BARS, WALL MOUNTED EQUIPMENT, TOILET ACCESSORIES, AND TOILET PARTITIONS.
16. IT IS NOT THE INTENT OF THE DOCUMENTS TO IDENTIFY EACH INDIVIDUAL WALL WITH A WALL TAG. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS.
17. FIRE RESISTANT ASSEMBLIES AS WELL AS JOINTS AND PENETRATIONS SHALL BE CONSTRUCTED ACCORDING TO DETAILS PROVIDED BY APPROVED TESTING AGENCIES IN ACCORDANCE WITH TEST PROCEDURES ASTM E 119 OR UL 263.
18. PROVIDE IMPACT RESISTANT GYPSUM BOARD UP TO 4'-0" IN ALL LOBBIES, CORRIDORS, & STAIRWELLS, AS APPLICABLE AND SCHEDULED.

CONTROL JOINT NOTES

GYPSUM BOARD:

1. PROVIDE CONTROL JOINTS AT SPACINGS NO GREATER THAN 20 '-0" O.C., BUT NO LESS THAN 16 '-0". INSTALL CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT. PRIOR TO INSTALLATION, SUBMIT CONTROL JOINT LOCATION PLAN TO ARCHITECT FOR REVIEW.

WALL STENCILING

ICC CHAPTER 7: MARKING AND IDENTIFICATION. WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:

1. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," OR OTHER WORDING.

RATING	STENCIL
1 HR	ONE HOUR FIRE BARRIER
1 HR SMOKE	ONE HOUR FIRE AND SMOKE BARRIER
2 HR	TWO HOUR FIRE BARRIER
2 HR SMOKE	TWO HOUR FIRE AND SMOKE BARRIER
SMOKE	SMOKE PARTITION

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

WALL & PARTITION TYPES

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

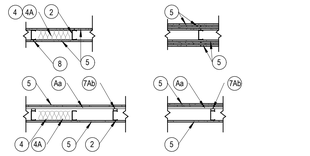
NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
G201

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

Design No. U419
BXUV.U419
Fire-resistance Ratings - ANSI/UL 263
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
July 12, 2018
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

FUSION BUILDING PRODUCTS — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 0.58 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items

2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES L L C — Viper25™ Track

1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — Viper20™ Track

1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STEEL INVESTMENT GROUP L L C — AlphaTRAK

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

OEG BUILDING MATERIALS — OEG Track

1O. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) – Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

2I. Framing Members* — Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5I, or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and
installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

TELLING INDUSTRIES L L C — Viper25™

2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

TELLING INDUSTRIES L L C — Viper20™

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC — NITROSTUD

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PRIMESTUD

2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.

STEEL INVESTMENT GROUP L L C — AlphaSTUD

2O. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

OEG BUILDING MATERIALS — OEG Stud

2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4C. Fiber, Sprayed* — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel		Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional	
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.	
1	1-5/8	1 layer, 3/4 in. thick	Optional	
2	1-5/8	2 layers, 1/2 in. thick	Optional	
2	1-5/8	2 layers, 5/8 in. thick	Optional	
2	3-1/2	1 layer, 3/4 in. thick	3 in.	
3	1-5/8	3 layers, 1/2 in. thick	Optional	
3	1-5/8	2 layers, 3/4 in. thick	Optional	
3	1-5/8	3 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 1/2 in. thick	Optional	
4	2-1/2	2 layers, 3/4 in. thick	2 in.	

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3), Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs.

Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thkns of Panel		Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional	
2	1-5/8	2 layers, 5/8 in. thick	Optional	
3	1-5/8	3 layers, 1/2 in. thick	Optional	
3	1-5/8	3 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 1/2 in. thick	Optional	

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or;, 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 lb/sq with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, through 2O	No. of Layers & Thkns of Panel		Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.	
2	1-5/8	2 layers, 5/8 in. thick	Optional	
3	1-5/8	3 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 5/8 in. thick	Optional	

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.Threelayer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring
channels and Steel Framing Members on only one side of studs as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems)
— As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum selfdrilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) —
Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5.

b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

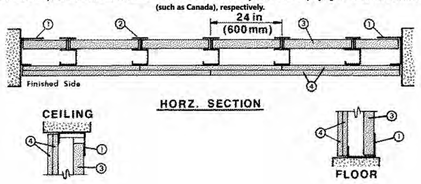
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U438

December 16, 2024

Nonbearing Wall Rating — 2 HR.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** "J" -shaped runner, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG when Item 4B is used). Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs —** "C-H" -shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used). Cut to lengths 3/8 to 1/2 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4B, 4D, 4E is used).

2A. **Steel Studs —** (Not shown)-"E" -shaped studs installed in place of "C-H" - shaped studs (Item 2) to secure the closure liner panels at the ends of walls. Fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used), 2-1/2 in. wide, with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 in. less than floor to ceiling height. Sill and lintel of opening formed with "J" -shaped runners (Item 1) secured to "E" -shaped studs with angle clips and steel screws.

3. **Gypsum Board* —** 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" -shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" -runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC.
CGC INC — Type SLX.

CERTAINTEED GYPSUM INC — Type Shaftliner, LGFCSI.

NATIONAL GYPSUM CO – FSW, FSW - 7

UNITED STATES GYPSUM CO — Type SLX.

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX.

4. **Gypsum Board* —** 1/2 in. thick, 4 ft. or 1200 mm (for metric spacing) wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and "J" -runners with 1-5/8 in. long Type S steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. Joints between inner and outer layers staggered.
Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound.

As an alternate method, inner wallboard layer applied vertically, outer wallboard layer applied horizontally. Inner layer attached to studs with 1 in. Type S steel screws spaced 24 in. OC along vertical edges and in the field. Outer layer attached to the studs and "J" runners over the inner layer with 1-5/8 in. long Type S steel screws spaced 12 in. OC in the field, along the vertical edges and to the floor and ceiling runners. Outer layer secured to inner layer wallboard with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint.

AMERICAN GYPSUM CO — Types AG-C .

CABOT MANUFACTURING ULC — Type C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Type C, IP-X2, or WRC.

CERTAINTEED GYPSUM INC — Type LGFC-C/A.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C.

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C, FSMR-C.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C.

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop MZTECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop MZTECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Type C, IP-X2 or WRC.

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2 or WRC.

4A. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type AR, IP-AR, IP-X1, SCX, ULX, or WRX.

UNITED STATES GYPSUM CO — Type AR, FRX-G, IP-AR, IP-X1, SCX, ULX or WRX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type AR, IP-AR, IP-X1, SCX, ULX, or WRX.

4B. **Gypsum Board* —** (Not Shown) - May be used in lieu of Items 4 or 4A for the base layer - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4C. **Gypsum Board* —** (As an alternate to Item 4, 4A, 4B) — 5/8 in. thick. Two layers installed as described in Item 4.
NATIONAL GYPSUM CO — Type FSMR-C, FSW-C, FSK-C, eXP-C.

4D. **Gypsum Board* —** (Not Shown) - May be used in lieu of Items 4 for the base layer - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see Item 6C).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4E. **Gypsum Board* —** (Not Shown) - May be used in lieu of Items 4 for the base layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4F. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC when installed vertically and staggered min. 8 in. from base layer screws or 8 in. OC when installed horizontally and staggered min. 6 in. from base layer screws. Horizontal joints between inner and outer layers need not to be staggered. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULIX.

UNITED STATES GYPSUM CO — Type ULIX.

4G. **Gypsum Board*** - 5/8 in. thick, 4 ft wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and "J" shaped runners with 1-5/8 in. long Type S or S-12 steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. Joints between inner and outer layers staggered. Outer layer joints covered with paper or mesh tape and joint compound. Exposed screw heads covered with joint compound.

NATIONAL GYPSUM CO – FSK, FSW, FSW-3, FSW-5, FSW-6

CERTAINTEED GYPSUM INC — Type X-1

5. **Batts and Blankets* —** (Optional) — (Not shown) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Cellbar-RL

5D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.

Applegate Greenfiber Acquisition LLC— Applegate Advanced Stabilized Cellulose Insulation

6. **Lead Batten Strips —** For Use with Item 4B - (Not Shown) - Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6A. **Lead Discs or Tabs —** (Not Shown) - Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6B. **Lead Batten Strips —** (Not Shown, for use with Item 4D) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

6C. **Lead Discs —** (Not Shown, for use with Item 4D) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-12-16

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

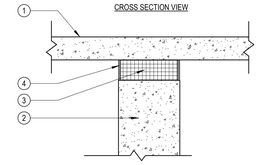
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UL/cUL SYSTEM NO. HW-D-1078

TOP OF WALL JOINT: CONCRETE WALL ASSEMBLY

ASSEMBLY RATING - 2-HR
CLASS II MOVEMENT CAPABILITIES - 17% COMPRESSION OR EXTENSION
L-RATING AT AMBIENT - LESS THAN 1 CFM/LIN. FT.
L-RATING AT 400DEGREES - LESS THAN 1 CFM/LIN. FT.

CROSS SECTION VIEW



1. LIGHTWEIGHT OR NOMINAL CONCRETE FLOOR (MIN. 4-1/2" THICK) (2-HR RATED)
2. CONCRETE WALL ASSEMBLY LIGHTWEIGHT OR NOMINAL CONCRETE WALL (MIN. 4-1/2" THICK) (2-HR RATED)
3. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) COMPRESSED 40%
4. MINIMUM 1/4" DEPTH HILTI CP 606 FLEXIBLE FIRESTOP SEALANT

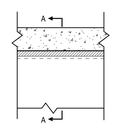
NOTE: MAXIMUM WIDTH OF JOINT = 3"

UL/cUL SYSTEM NO. HW-D-0342

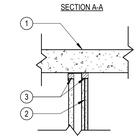
TOP OF WALL JOINT: GYPSUM SHAFT WALL ASSEMBLY

ASSEMBLY RATING - 2-HR
CLASS II MOVEMENT CAPABILITIES - 8% COMPRESSION OR EXTENSION
L-RATING AT AMBIENT - LESS THAN 1 CFM/LIN. FT.
L-RATING AT 400DEGREES - LESS THAN 1 CFM/LIN. FT.

FRONT VIEW



SECTION A-A



1. LIGHTWEIGHT OR NOMINAL CONCRETE FLOOR (MIN. 4-1/2" THICK) (2-HR FIRE RATING)
2. GYPSUM SHAFT WALL ASSEMBLY (UL/cUL U400 OR V400 SERIES) (2-HR FIRE RATING)TO INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. "J" SHAPED CEILING RUNNER, MINIMUM 2-1/2" WIDE WITH LEGS OF 1-1/4" AND 2" (MINIMUM 24 GA.) FASTENED TO UNDERSIDE OF CONCRETE FLOOR WITH STEEL FASTENERS AT LOCATIONS NOT GREATER THAN 2" FROM ENDS AND MAXIMUM 24" O.C.
   B. "C-H" SHAPED STUDS (MINIMUM 2-1/2" WIDE, MINIMUM 25 GA.) CUT 3/8" TO 1/2" LESS IN LENGTH THAN ASSEMBLY HEIGHT, NESTING IN CEILING RUNNER WITHOUT ATTACHMENT.
   C. NOMINAL 1" THICK GYPSUM LINER PANEL. TYPE AND SHEET ORIENTATION AS SPECIFIED IN THE INDIVIDUAL UL DESIGN.
   D. NOMINAL 1/2" OR 5/8" THICK GYPSUM WALLBOARD. TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION AS SPECIFIED IN INDIVIDUAL UL DESIGN.
3. MINIMUM 1" DEPTH HILTI CP 606 FLEXIBLE FIRESTOP SEALANT OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT.

NOTE: 1. AS AN ALTERNATE TO CEILING RUNNER IN ITEM 2, CEILING RUNNERS, MANUFACTURED BY BRADY CONSTRUCTION INNOVATIONS, INC., DBA SLIPTRACK SYSTEMS, CEMCO, OR THE STEEL NETWORK, INC., MAY BE USED. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR INSTALLATION INSTRUCTIONS.
2. AS AN OPTION, THE STEEL STUDS MAY BE INCORPORATE VERTICAL DEFLECTION CLIPS (SLD 150, MANUFACTURED BY STEEL NETWORK, INC.) FOR ATTACHMENT TO CEILING RUNNERS. CONSULT THE UL FIRE RESISTANCE DIRECTOR FOR INSTALLATION INSTRUCTIONS.

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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY

GOVERNMENT OF THE U.S. VIRGIN ISLANDS · DEPARTMENT OF HUMAN SERVICES ·

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

UL DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: SRL
CHECKED BY: JLT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
OOR PROJECT NUMBER
010-9-101918

SHEET NUMBER
G203

B: 30% CONSTRUCTION DOCUMENTS NOT FOR CONSTRUCTION

KNUD HANSEN COMPLEX

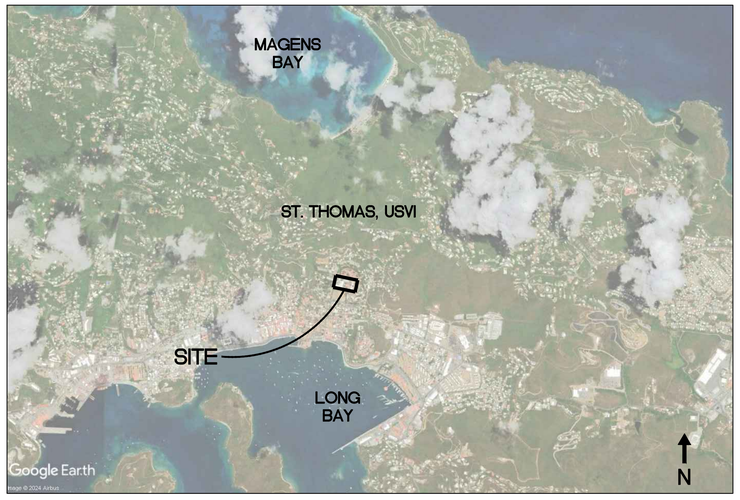
CIVIL 30% CONSTRUCTION DOCUMENTS

PREPARED FOR:

SPRINGLINE ARCHITECTS

9713 ESTATE THOMAS,
BUILDING 1, SUITE 200
ST. THOMAS, USVI 00802

VICINITY MAP



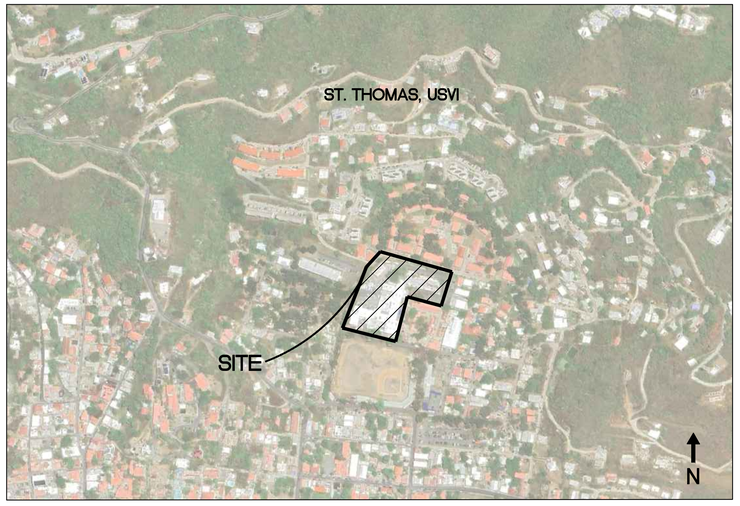
NOT TO SCALE

PREPARED BY:

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LOCATION MAP



NOT TO SCALE

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CIVIL SHEET INDEX

SHEET NUMBER	SHEET TITLE
C0.00	CIVIL COVER SHEET
C0.01	GENERAL NOTES
C0.02	EXISTING CONDITIONS SURVEY
C0.90	DEMOLITION & EROSION CONTROL PLAN
C1.00	SITE PLAN
C1.01	SITE PLAN – LOWER
C2.00	GRADING PLAN
C2.01	GRADING PLAN – LOWER
C2.10	DRAINAGE PLAN
C2.11	DRAINAGE PLAN – LOWER
C3.00	UTILITY PLAN
C4.00	DETAILS SHEET
C4.01	DETAILS SHEET
C4.02	DETAILS SHEET
C4.03	DETAILS SHEET
C4.04	DETAILS SHEET
C4.05	DETAILS SHEET
C4.06	DETAILS SHEET
C4.07	DETAILS SHEET
C4.08	DETAILS SHEET
C4.09	DETAILS SHEET
EXH–1	FIRE TRUCK ACCESS PLAN
EXH–2	GARBAGE TRUCK ACCESS PLAN

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B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN COMPLEX
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

CIVIL COVER SHEET

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

NOVUS JOB NUMBER
470-23-49

GDB PROJECT NUMBER
010-9-101918

SHEET NUMBER
C0.00

NOT FOR CONSTRUCTION

30% CONSTRUCTION DRAWINGS

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO, ANY CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
3. SUCH MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED, AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF THESE EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
5. ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING ROADS AND FACILITIES FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN (15) FIFTEEN CALENDAR DAYS AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED. A CERTIFICATE OF COMPLIANCE WILL NOT BE ISSUED UNTIL THE ABOVE REQUIREMENTS HAVE BEEN MET.

DEMOLITION NOTES

1. PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR WILL COORDINATE THEIR ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA AND THE PROJECT MANAGER. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES AND THE PROJECT MANAGER ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
2. THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND BUILDINGS INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED, STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.
3. MINIMUM DEPTH FOR REMOVAL OF OBJECTS SHALL BE THREE (3) FEET BELOW SUB-GRADE IN ROADWAY AND SIDEWALK AREAS AND FOUR (4) FEET BELOW FINISHED GRADE ANYWHERE. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.
4. ALL BUILDING REMOVAL AND DEMOLITION SHALL BE PERFORMED AS SHOWN OR AS DIRECTED BY THE ENGINEER AND/OR THE PROJECT MANAGER.
5. CONTRACTOR TO PROTECT EXISTING TREES AS NECESSARY. REFER TO DETAIL SHEET FOR TREE PROTECTION DETAIL.
6. CONTRACTOR TO DEMONSTRATE AN APPROVAL OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO BEGINNING CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL, TRANSPORTATION, AND DISPOSAL OF ALL DEMOLITION DEBRIS, INCLUDING BUILDING MATERIALS AND CONCRETE STRUCTURES, IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. ALL DEBRIS SHALL BE DISPOSED OF AT AN APPROVED FACILITY, AND THE CONTRACTOR SHALL OBTAIN AND RETAIN ALL NECESSARY PERMITS AND DISPOSAL RECEIPTS FOR VERIFICATION UPON REQUEST. DUST CONTROL MEASURES SHALL BE IMPLEMENTED AS NEEDED TO MINIMIZE AIRBORNE PARTICLES.

PAVING AND GRADING NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE VIRGIN ISLANDS ZONING, BUILDING AND HOUSING LAWS AND REGULATIONS, 2019, FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS MORE STRINGENT REQUIREMENTS STATED OTHERWISE IN THE SPECIFICATIONS OR ON THE PLANS.
2. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING IF ANY APPARENT DISCREPANCIES ARE FOUND.
3. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT.
4. ALL EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND GEOTECHNICAL REPORT.
5. ALL FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY (AASHTO T-180), UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
6. THE CONCRETE COMPRESSIVE STRENGTH FOR CURB AND GUTTER SHALL BE 2,500 PSI AT 28 DAYS.
7. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION (UNDER THE DIRECTION OF A VIRGIN ISLAND REGISTERED LAND SURVEYOR).
8. THE LOCATIONS OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE UTILITY COMPANY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED AS DIRECTED ON THE PLANS.
9. THE CONTRACTOR SHALL ENSURE THAT ALL PERMITS FOR CONSTRUCTION ARE OBTAINED PRIOR TO STARTING WORK.
10. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
11. ROADWAY MARKINGS AND STRIPING TO BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
12. THE CONTRACTOR SHALL PROVIDE FLAGMEN AND OTHER TRAFFIC MEASURES NECESSARY TO PROTECT AND FACILITATE TRAFFIC MOVEMENT DURING CONSTRUCTION.
13. A 24-HOUR NOTICE WILL BE GIVEN TO THE ENGINEER OF RECORD AND VIRGIN ISLAND BUILDING DEPARTMENT PRIOR TO TESTING ANY ROADWAY SHOWN ON THESE PLANS.
14. CONTRACTOR SHALL OBTAIN ANY LANE CLOSURE PERMITS REQUIRED FOR CONSTRUCTION FROM THE APPLICABLE JURISDICTION. (COST FOR PERMIT TO BE INCLUDED IN BID).
15. CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY UTILIZATION PERMITS FROM THE APPLICABLE JURISDICTION FOR ALL CONSTRUCTION OPERATIONS WITHIN PUBLIC RIGHTS-OF-WAY (COST FOR PERMITS TO BE INCLUDED IN BID).
16. CONTRACTOR SHALL INSTALL TEMPORARY BENCH MARKS AS SHOWN ON THE PLANS AT START OF CONSTRUCTION. ALL VERTICAL ELEVATIONS ARE BASED ON THE CORP OF ENGINEERS DIGITAL ORTHOGRAPHIC TOPOGRAPHY, CIRCA 2007.
17. FILL PLACEMENT AND COMPACTION:
    - THE FILL SHOULD BE PLACED IN RELATIVELY LEVEL LIFTS, DRIED OR WETTED AS NEEDED, AND THEN COMPACTED TO A MINIMUM DENSITY OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) UNLESS OTHERWISE SPECIFIED. THE LIFTS SHOULD NOT EXCEED 12 INCHES IN LOOSE THICKNESS IF COMPACTION IS PERFORMED BY A HEAVY VIBRATORY ROLLER AND 6 INCHES IF AN APPROVED HAND-OPERATED COMPACTION PLATE IS USED. VIBRATORY ROLLERS SHOULD NOT BE USED IN A VIBRATORY MODE WITHIN 75 FEET OF ANY EXISTING STRUCTURES WITHOUT VIBRATION MONITORING.
    - SUFFICIENT EARTHWORK MONITORING AND A SUFFICIENT NUMBER OF IN-PLATE DENSITY TESTS SHOULD BE PERFORMED TO EVALUATE FILL PLACEMENT AND COMPACTION OPERATION AND TO CONFIRM THAT THE REQUIRED COMPACTION IS BEING ACHIEVED.

GEOMETRY NOTES

1. ALL SURVEY DATA USED AND CONDITIONS ASSUMED TO BE PRESENT IN PREPARATION OF THESE PLANS WAS PROVIDED BY THE GREEN PIECE ENGINEERING + ENVIORMENT. HARRIS CIVIL ENGINEERS, LLC, DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THIS DATA.
2. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
3. ALL PAVEMENT OFFSETS, RADII AND DIMENSIONS SHOWN ARE TO PROPOSED EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.
5. PER ENGINEER OF RECORD REQUIREMENTS, THE CONTRACTOR SHALL MAINTAIN A SET OF "AS-BUILT" PLANS ON SITE. AT THE END OF CONSTRUCTION, THE CONTRACTOR IS TO PROVIDE AN AS-BUILT SURVEY TO THE ENGINEER OF ALL THE FACILITIES CONSTRUCTED UNDER THESE PLANS. THE SURVEYOR SHALL CERTIFY AND SEAL EACH AS-BUILT PLAN "THESE AS-BUILT PLANS ACCURATELY DEPICT THE ACTUAL FACILITIES AS CONSTRUCTED".
6. TRAFFIC SIGHTED MARKINGS
    A. ALL DRIVEWAYS EXISTING ONTO ANY PUBLIC OR PRIVATE STREET MUST HAVE A TRAFFIC CONTROL DEVICE (30" STOP SIGN" MOUNTED 7' ABOVE THE PEDESTRIAN VEHICLE TRAVEL WAY (MEASURED FROM BOTTOM OF SIGN) AND THROUGHOUT THE SITE AS NECESSARY FOR SAFETY.
    B. ALL SIGN INSTALLATIONS SHALL COMPLY WITH SIZE, LOCATION AND HEIGHT (7') AS OUTLINED IN THE "MUTCD."
    C. PAVEMENT MARKINGS – GENERAL PRINCIPLES:
        1. PARKING LOT PAVEMENT MARKINGS SHALL BE WHITE (DIRECTIONAL ARROWS, STOP BARS, LINES DESIGNATING PARKING SPACES AND HANDICAPPED PARKING SYMBOLS).
        2. PAVEMENT MARKINGS ON TRAFFIC AISLES, PRIVATE STREETS OR PUBLIC STREETS SHALL CONFORM TO THE FOLLOWING:
            a. WHITE LINES DELINEATE THE SEPARATION OF TRAFFIC FLOWS IN THE SAME DIRECTION (AT DRIVEWAYS, WITHIN DRIVING AISLES AND ON STREETS).
            b. YELLOW LINES DELINEATE THE SEPARATION OF TRAFFIC IN THE OPPOSING DIRECTIONS (AT DRIVEWAYS, WITHIN DRIVING AISLES AND ON STREETS).

DRAINAGE NOTES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES AT PROPOSED CROSSINGS AND POINTS OF CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITY CONFLICTS.
2. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.
3. ALL EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, CONTRACT DOCUMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER (AS APPLICABLE).
4. WHEN TRENCH EXCAVATION EXCEEDS FIVE (5) FEET IN DEPTH:
    A. CONTRACTOR SHALL CONFORM TO OSHA STD. 29CFR. SECTION 1926.650 AND FLORIDA TRENCH SAFETY ACT.
    B. THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH THIS LAW.
    C. TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR.
5. ALL DRAINAGE PIPING SHALL HAVE A MINIMUM OF 3 FEET OF COVER UNLESS SHOWN OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. ALL DRAINAGE PIPES ARE REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED. ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC WRAP PER DETAIL.
7. DRAINAGE STRUCTURE TOP ELEVATION REFERS TO TOP OF FINISHED STRUCTURE.
8. THE CONTRACTOR SHALL LOCATE AND VERIFY VERTICAL AND HORIZONTAL LOCATIONS ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
9. THE CONTRACTOR SHALL ENSURE THAT PERMITS FOR CONSTRUCTION ARE OBTAINED PRIOR TO STARTING WORK.
10. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
11. THE LOCATIONS OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE UTILITY COMPANY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED AS DIRECTED ON THE PLANS.
12. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

STANDARD SEWER AND POTABLE WATER NOTES

1. A MINIMUM OF 3 FEET OF COVER SHALL BE MAINTAINED OVER ALL PROPOSED UTILITIES UNLESS SHOWN OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. WHERE POTABLE WATER AND SANITARY UTILITIES (SANITARY SEWER, FORCE MAIN, REUSE WATER) CROSS WITH LESS THAN EIGHTEEN (18) INCHES VERTICAL CLEARANCE. THE SEWAGE MAIN SHALL BE CONCRETE ENCASED PVC PIPE OR ENCASED IN A WATERTIGHT CARRIER PIPE, CENTERED ON THE POINT OF CROSSING. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) TO TEN (10) FEET (EDGE TO EDGE) BETWEEN POTABLE WATER MAINS AND SEWAGE MAINS SHALL BE MAINTAINED WHEN PRACTICAL. WHEN THE APPROPRIATE HORIZONTAL SEPARATION CANNOT BE MAINTAINED THE SEWAGE MAIN SHALL BE CONCRETE ENCASED PVC PIPE OR ENCASED IN A WATERTIGHT CARRIER PIPE.
3. ALL WATER MAIN AND SANITARY SEWER MATERIALS AND APPURTENANCES SHALL BE INSTALLED, TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE AHJ AND THE REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
4. PVC GRAVITY SEWER FOUR (4) INCH THROUGH (15) INCH SHALL BE SDR 26. JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. ALL PVC SEWER SHALL BEAR THE "NSF-DW SEAL."
5. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
6. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO STARTING.
7. ALL WATER AND SEWER LINES ARE TO BE CAPPED TEMPORARILY AT THEIR OPEN ENDS UNTIL CONNECTIONS ARE CONSTRUCTED.
8. WHEN TRENCH EXCAVATION EXCEEDS 5 FEET IN DEPTH:
    A. CONTRACTOR SHALL CONFORM TO OSHA STD. 29CFR. SECTION 1926.650.
    B. THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH THIS LAW.
    C. TRENCH SAFETY SYSTEM SHALL BE BY THE CONTRACTOR.
9. ON-SITE LIFT STATION AND PIPING SHALL BE PRIVATELY OWNED AND MAINTAINED. OFF-SITE FORCE MAIN PIPING WILL BE OWNED AND MAINTAINED BY THE USVI WASTE MANAGEMENT AUTHORITY.

POTABLE WATER-MATERIAL NOTES

1. PVC PIPE: FOUR(4) INCHES THROUGH THIRTY-SIX(36) INCHES SHALL BE AWWA C-900(4" to 12") OR C-905(14" to 36"), LATEST EDITION. THE PVC PIPE SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 250PSI AND SHALL HAVE A DIMENSION RATIO(DR) OF 18. PVC PIPE SHALL BE INTEGRAL BELL, PUSH-ON TYPE JOINTS.
2. DIP PIPE: THREE(3) INCHES THROUGH FIFTY-FOUR(54) INCHES SHALL BE AWWA C150/C151 WITH MINIMUM WORKING PRESSURE CLASS 350 PIPE.
3. VALVES: TWENTY(20) INCHES AND SMALLER SHALL BE RESILIENT WEDGE GATE VALVES. VALVES LARGER THAN TWENTY(20) INCHES SHALL BE BUTTERFLY VALVES.
4. VALVES SHALL NOT BE LOCATED AT NOT MORE THAN 500 FOOT INTERVALS IN COMMERCIAL, INDUSTRIAL AND HIGH DENSITY RESIDENTIAL AREAS AND NOT MORE THAN 1000 FOOT INTERVALS IN ALL OTHER AREAS. APPROPRIATE VALVING SHALL BE PROVIDED AT THE DOWNSTREAM SIDES OF TEES AND CROSSES. THIS SHALL INCLUDE ALL SIDE TEES AND CROSSES WITHIN LOOPED SYSTEMS, WHERE FLOW IS POTENTIALLY MULTIDIRECTIONAL.
5. AT HIGH POINTS IN WATER MAINS WHERE AIR CAN ACCUMULATE, PROVISIONS SHALL BE MADE TO REMOVE THE AIR BY MEANS OF AUTOMATIC AIR RELIEF VALVES.

POTABLE WATER - TESTING NOTES

1. WATER LINES SHALL BE INSTALLED, CLEANED, FLUSHED, DISINFECTED AND BACTERIOLOGICALLY TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS C651.
2. ALL WATER DISTRIBUTION SYSTEMS SHALL BE FLUSHED CLEAN OF ALL DELETERIOUS MATERIAL PRIOR TO ANY TESTING. FULL DIAMETER FLUSHING IS REQUIRED.
3. WATER LINES SHALL BE PRESSURE TESTED AT 250-PSI IN ACCORDANCE WITH AWWA-C600 AND C605/M23 SPECIFICATIONS FOR DUCTILE IRON AND PVC PIPES, RESPECTIVELY.
4. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST VERSION OF AWWA-C651.
5. ALL BACTERIOLOGICAL SAMPLES SHALL BE TAKEN BY THE CONTRACTOR.

POTABLE WATER NOTES

1. THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED REUSE/POTABLE WATER DISTRIBUTION PIPING IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR PVC PIPE.
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE UTILITY COMPANY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY. EXISTING UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED AS DIRECTED ON THE PLANS.
4. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
5. ALL REUSE WATER LINES ARE TO BE CAPPED TEMPORARILY AT THEIR OPEN ENDS UNTIL CONNECTIONS ARE CONSTRUCTED.
6. A 24-HOUR NOTICE WILL BE GIVEN TO THE ENGINEER-OF-RECORD AND THE VIRGIN ISLANDS BUILDING DEPARTMENT INSPECTORS PRIOR TO TESTING ANY UTILITY SHOWN ON THESE PLANS.
7. WHEN TRENCH EXCAVATION EXCEEDS (5) FEET IN DEPTH:
    A. CONTRACTOR SHALL CONFORM TO OSHA STD. 29CFR. SECTION 1926.650
    B. TRENCH SAFETY SYSTEM SHALL BE BY THE CONTRACTOR.
8. FOR ESTIMATING PURPOSES, THE LENGTHS OF UTILITY PIPING SHOWN ON THESE PLANS ARE ONLY APPROXIMATE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A 4"x 4" WOOD POST AT THE END OF ALL REUSE/POTABLE WATER STUBS. THE POSTS SHALL BE A MINIMUM OF FOUR(4) FEET IN LENGTH AND INSTALLED WITH THE TOP FLUSH WITH PROPOSED GRADE. THE POSTS SHALL BE COLOR CODED AS FOLLOWS: REUSE WATER = PURPLE, POTABLE WATER = BLUE
10. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID. TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SEWER OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IE. THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER) ; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."
11. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THAT THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT CROSS EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
12. AT THE UTILITY CROSSINGS ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
13. ALL POTABLE WATER MAIN MUST BEAR THE "NSF" LOGO.
14. UTILITY SEPARATION – VERTICAL CLEARANCE
    A. WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF EITHER:
        1. DUCTILE IRON PIPE, CENTERED ON THE POINT OF CROSSING, OR:
        2. PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED
    B. WHERE WATER MAINS AND STORM SEWER PIPES CROSS WITH LESS THAN 12 INCHES VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING
15. UTILITY SEPARATION – HORIZONTAL SEPARATION
    A. WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST TEN FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR:
        1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER, OR;
        2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND THE ABOVE (A) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED.
        3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.
16. UTILITY SEPARATION – FORCE MAINS
    A. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE ENGINEER OF RECORD.
17. ALL MECHANICAL JOINTS SHALL BE RESTRAINED. THRUST BLOCKS ARE NOT ALLOWED.
18. MAINTAIN A MINIMUM OF 36 INCHES OF COVER OVER ALL PIPES. IF LESS THAN 36 INCHES OF COVER USE DIP AND NOTIFY ENGINEER FOR EVALUATION.
19. MARKING TAPE SHALL BE INSTALLED 12" TO 18" OVER ALL PIPE. PIPE SHALL BE BLUE IN COLOR (FOR WATER) AND PURPLE IN COLOR(FOR REUSE) OR SHALL HAVE A CONTINUOUS 2 INCH WIDE, PERMANENT BLUE OR PURPLE STRIPE ON TOP OF THE PIPE.
20. A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE SHALL BE INSTALLED, TAPED TO THE TOP OF THE PIPE AND BE ACCESSIBLE AT EACH VALVE BOX.
21. IN GENERAL, ONE COMPACTION TEST SHALL BE TAKEN FOR EACH 12 INCH LAYER OF FILL FROM THE SPRINGLINE TO THE PIPE TO THE FINISH GRADE FOR EACH 300 FEET OF PIPE AND FOR EVERY 100 SQUARE FEET OF BACKFILL AROUND STRUCTURES.

PERMITS, PLANS, AND SHOP DRAWING NOTES

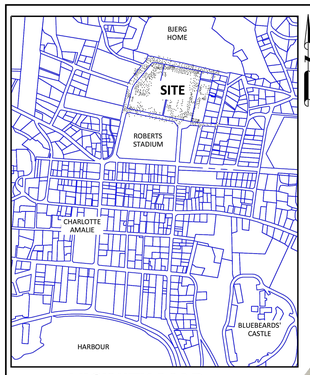
1. THE CONTRACTOR SHALL NOT PROVIDE WATER SERVICE TO THIS PROJECT (OTHER THAN FLUSHING/TESTING) UNTIL THE DEPARTMENT OF ENVIRONMENTAL PROTECTION HAS ISSUED A LETTER OF CLEARANCE OR THE UTILITY SHALL BE SUBJECT TO ENFORCEMENT ACTION.
2. A MINIMUM OF THREE SETS OF SHOP DRAWINGS MUST BE SUBMITTED, BY THE CONTRACTOR, TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
3. INSTALLATION OF MATERIALS AND/OR STRUCTURES PRIOR TO SHOP DRAWING APPROVAL IS DONE AT THE CONTRACTOR'S OWN RISK.
4. TWO SETS OF AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE VIRGIN ISLANDS BUILDING DEPARTMENT AND ENGINEER OF RECORD.

AS-BUILT NOTES

CERTIFIED AS BUILT DRAWINGS WILL BE REQUIRED WITH THE FOLLOWING INFORMATION:(ALL ELEVATIONS TO BE SURVEYED TO 0.01')

STORM DRAINAGE:
1. TOP ELEVATION OF EACH MANHOLE FRAME AND COVER/GRATE AS WELL AS ALL OTHER STRUCTURES(HEADWALLS, CONTROL STRUCTURES, ETC.).

WATER SYSTEM:
1. ACTUAL LENGTHS OF PIPE BETWEEN BRANCHES AND VALVES IN THE RUN.
2. LO



VICINITY MAP
(1" = 500 ft)

NOTES:

1. BLUE BOUNDARY LINES PER GVI GIS AND MAGENTA BOUNDARY LINES PER OLG D3-277-T66 (NO PHYSICAL EVIDENCE FOUND). NORTH ARROW REFERS TO GRID NORTH.
2. THIS PROPERTY APPEARS TO LIE WITHIN "ZONE X", ACCORDING TO THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 780000 0026 G APRIL 16, 2007.
3. SURVEY IN U.S. UNITS AND CONDUCTED USING CONVENTIONAL SURVEY METHODS IN NOVEMBER 2023.
4. VERTICAL DATUM IS VIVD09. HORIZONTAL DATUM IS NAD 83(2011) ZONE 5200, US FEET.
5. IMAGERY FROM NOVEMBER 2023.

LEGEND:

- PLOT PROP. LINE
- OTHER PROPERTY LINE
- SETBACK LINE
- UNMARKED CORNER
- UTILITY POLE
- IRON PIN FOUND
- CONCRETE MONUMENT
- CONTROL POINT
- LIGHT POLE
- MAN HOLE
- UTILITY POLE
- AIR CONDITIONING UNIT (A/C)
- CONCRETE BLOCK WALL (CBW)
- WATER VALVE
- FIRE HYDRANT
- DRAINAGE INLET
- TREE (TYPE UNKNOWN)
- PALM TREE



I, JEFFREY L. BATEMAN, HEREBY CERTIFY THAT THIS MAP IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW. WITNESS MY SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 31 DAY OF JANUARY, 2024.
S/S JEFFREY L. BATEMAN, VI PLS 1053 LS

VIRGIN ISLANDS 1053 LS FOR SURVEY JEFFREY L.BATEMAN

NORTH
0' 30' 60'
SCALE: 1"=30'

This plan may have been reduced in size. Verify before scaling dimensions

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ASBUILT & TOPOGRAPHIC SURVEY

KNUD HANSEN HOSPITAL
ESTATE HOSPITAL GROUND - NEW QUARTER
Saint Thomas, US Virgin Islands

Designed By:	
Drawn By:	dlp/jlb
Checked By:	JLB
Scale:	1" = 30 ft
Date:	12 DEC 2023
Revised:	
1	31 JAN 2024
2	20 JUNE 2024
3	
4	
5	
6	
Project Number:	23X114

SP-1

springline architects
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1303 Hospital Ground
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EXISTING CONDITIONS SURVEY

REVISIONS:

No.	Description	Date

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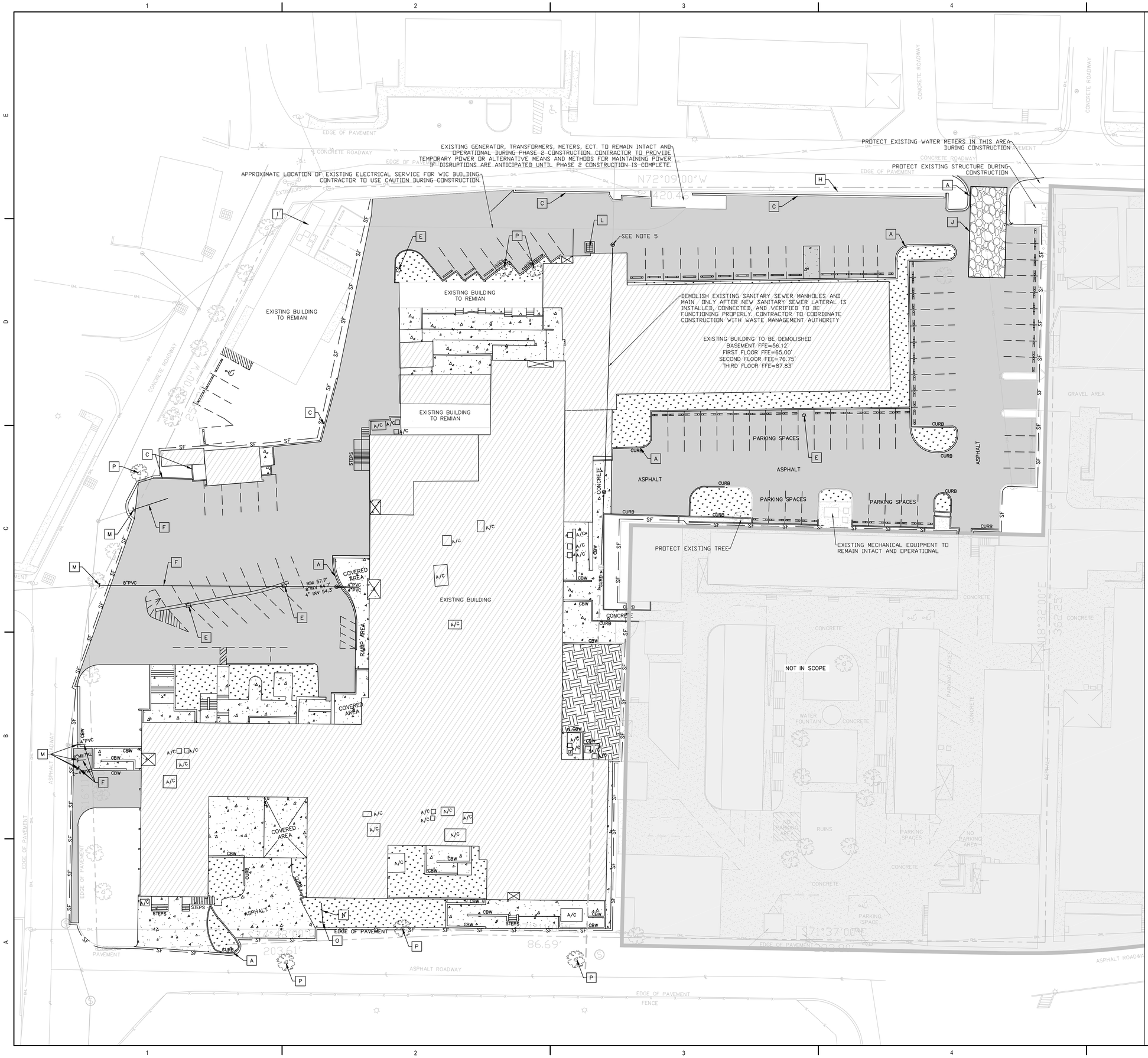
NOVUS JOB NUMBER
470-23-49
CDR PROJECT NUMBER
010-9-101918

SHEET NUMBER
C0.02

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EROSION CONTROL & DEMOLITION LEGEND

- DEMOLISH BUILDING (REFER TO SLA DEMOLITION SET)
- DEMOLISH CONCRETE PAVEMENT
- DEMOLISH ASPHALT PAVEMENT
- DEMOLISH RUBBER SURFACE
- CLEAR/GRUB LANDSCAPE
- SF — SILT FENCE
- X — DEMOLISH CHAIN LINK FENCE

EROSION CONTROL & DEMOLITION KEY NOTES

- A DEMOLISH CURB
- B DEMOLISH FENCE
- C DEMOLISH WALL
- D DEMOLISH BACKFLOW PREVENTER
- E DEMOLISH LIGHT POLE
- F DEMOLISH SANITARY SEWER PIPE
- G REMOVE WHEEL STOPS
- H EXISTING WALL TO REMAIN
- I EXISTING UTILITIES TO REMAIN
- J GRAVEL CONSTRUCTION ENTRANCE AND/OR RUMBLE MATS
- K SAW CUT ASPHALT PAVEMENT
- L DEMOLISH INLET
- M CAP EXISTING SANITARY SEWER PIPE
- N DEMOLISH POTABLE WATER PIPE
- O CAP EXISTING POTABLE WATER PIPE
- P DEMOLISH TREE

EROSION CONTROL & DEMOLITION NOTES

1. REFER TO ARCHITECTURAL DEMOLITION PLAN FOR ADDITIONAL BUILDING AND SITE DEMOLITION EXTENTS.
2. REFER TO ELECTRICAL ENGINEERING PLANS AND/OR WAPA POWER FOR REMOVAL, RELOCATION, AND/OR PROTECTION OF EXISTING ELECTRICAL INFRASTRUCTURE, LIGHT POLES, AND MISCELLANEOUS COMPONENTS.
3. ALL EXCESS FILL MATERIAL IS TO BE HAULED OFF-SITE AND PROPERLY DISPOSED OF.
4. CONTRACTOR TO USE SELECTIVE DEMOLITION, DELEGATED STRUCTURAL ENGINEERING, AND OTHER MEANS AND METHODS TO ENSURE THE DEMOLITION DOES NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE HISTORIC STRUCTURE, AS WELL AS THE EXISTING UTILITY INFRASTRUCTURE TO REMAIN.
5. CONTRACTOR TO CLEAN AND VACUUM EXISTING STORMWATER INLET AND INTERCONNECTED PIPES. DOCUMENT RIM /INVERT ELEVATIONS, PIPE SIZE(S), MATERIAL, AND CCTV VIDEO FOR CONFIRMATION OF VIABILITY PRIOR TO DEMOLITION ACTIVITIES AND PROCUREMENT OF MATERIALS. CONTRACTOR TO CONFIRM DESIGN AFTER INVESTIGATION.
6. CONTRACTOR TO PROVIDE PROVISIONS FOR STORMWATER COLLECTION AND TREATMENT MEANS AND METHODS DURING CONSTRUCTION.
7. CONTRACTOR TO FIELD VERIFY EXISTING SANITARY SEWER SYSTEM LAYOUT INTERNAL TO THE PROJECT LIMITS AND DIRECTLY UPSTREAM. DOCUMENT RIM/INVERT ELEVATIONS, PIPE SIZE(S), MATERIAL, LATERAL CONNECTIONS, ECT. PRIOR TO DEMOLITION OF ANY PORTION OF THE INFRASTRUCTURE AND PROCUREMENT OF MATERIALS. CONTRACTOR TO CONFIRM DESIGN AFTER INVESTIGATION.
8. CONTRACTOR TO PROVIDE TEMPORARY VEHICULAR ACCESS TO THE ADJACENT PROPERTIES THROUGHOUT THE DURATION OF CONSTRUCTION. COORDINATE WITH PROPERTY OWNER(S).
9. CONTRACTOR TO MAINTAIN FIRE ACCESS LANE TO ALL LOCATIONS THROUGHOUT THE SITE DURING CONSTRUCTION. COORDINATE WITH LOCAL FIRE MARSHALL.
10. CONTRACTOR TO APPROPRIATELY ADDRESS THE REMOVAL AND DISPOSAL OF ANY HAZARDOUS OR CONTAMINATED MATERIALS FOUND PRIOR TO OR DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO FUEL, PROPANE, GASOLINE, SANITARY WASTE, ASBESTOS, ECT.
11. CONTRACTOR IS REQUIRED TO INSTALL A TEMPORARY SANITARY SEWER PUMP TO REROUTE THE SANITARY SEWER FLOW INTO THE EXISTING OFFSITE SANITARY SEWER SYSTEM. THE CONTRACTOR WILL REMOVE THE TEMPORARY PUMP WHEN THE SANITARY SEWER SYSTEM INFRASTRUCTURE IS INSTALLED AND TESTED

NORTH

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DEMOLITION PLAN

REVISIONS:

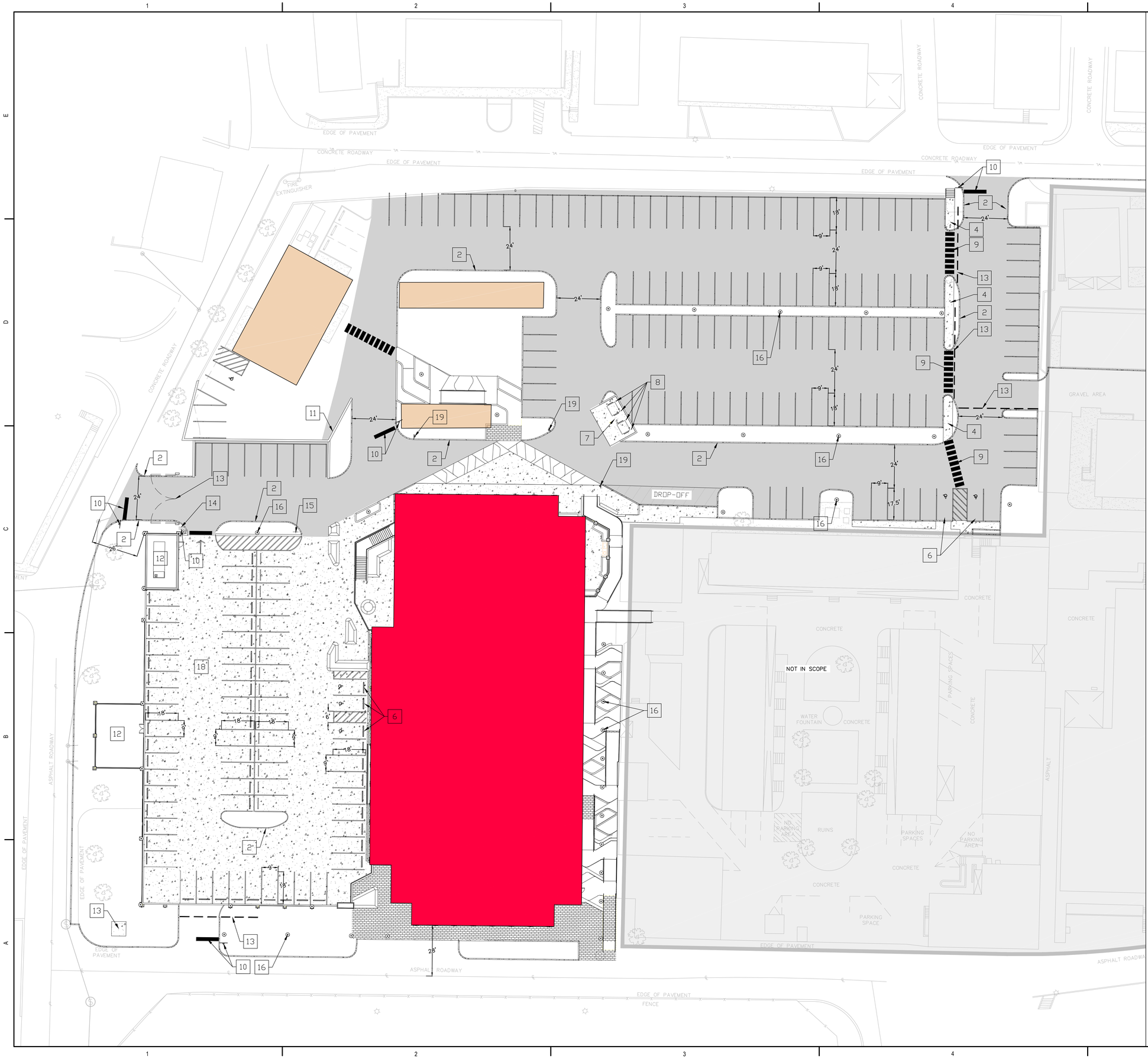
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DATE: 04.03.2026
NOVUS JOB NUMBER: 470-23-49
GVI PROJECT NUMBER: 010-9-101918

SHEET NUMBER: C0.90

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SITE LEGEND

- BUILDING
- EXISTING BUILDING TO REMAIN
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- STAMPED CONCRETE

SITE KEY NOTES

1. RIBBON CURB
2. TYPE D CURB
3. TYPE F CURB
4. SIDEWALK
5. ADA CURB RAMP AND DETECTABLE WARNING
6. ADA PARKING STALL & STRIPING
7. DUMPSTER/COMPACTOR ENCLUSURE (REFER TO ARCHITECTURAL & STRUCTURAL PLANS)
8. CONCRETE BOLLARD
9. PEDESTRIAN CROSSWALK STRIPING
10. STOP SIGN AND STOP BAR
11. SITE WALL
12. UTILITY AREA
13. SWING GATE/SLIDING GATE
14. 'DO NOT ENTER' SIGN
15. 'NO OVERSIZED VEHICLES' SIGN
16. SITE LIGHTING (TYPICAL)
17. TRANSFORMER CONCRETE PAD
18. TENSIONED CONCRETE DECK (REFER TO STRUCTURAL DRAWINGS)
19. PEDESTRIAN CROSSING SIGN

SITE INFORMATION:

ZONING: P-PUBLIC

SURROUNDING ZONING: R-3

NORTH

20 0 10 20 40

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SITE PLAN

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SITE LEGEND

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- EXISTING BUILDING TO REMAIN
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- STAMPED CONCRETE

SITE KEY NOTES

1. RIBBON CURB
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NORTH

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SITE PLAN - LOWER

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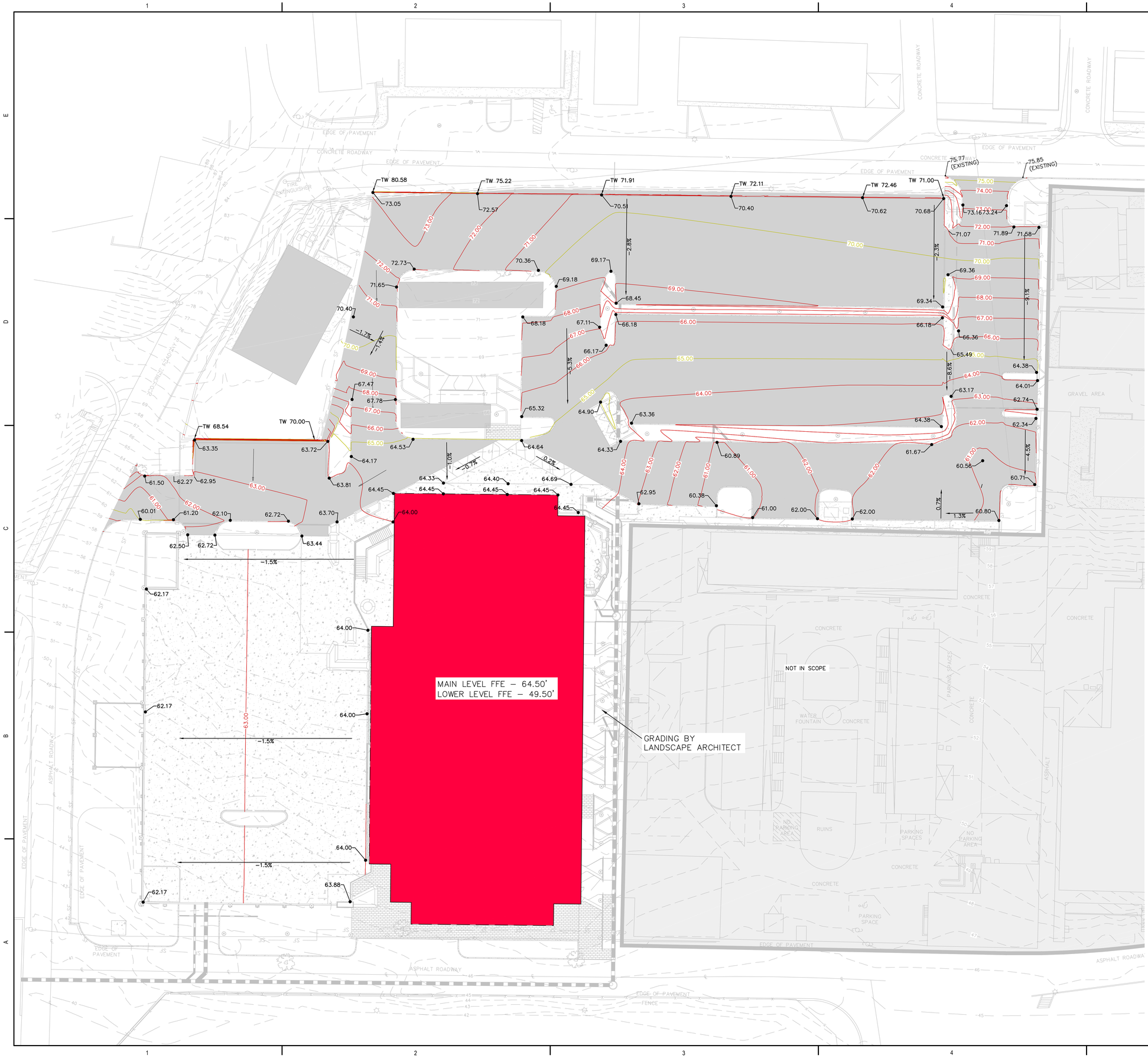
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GRADING PLAN

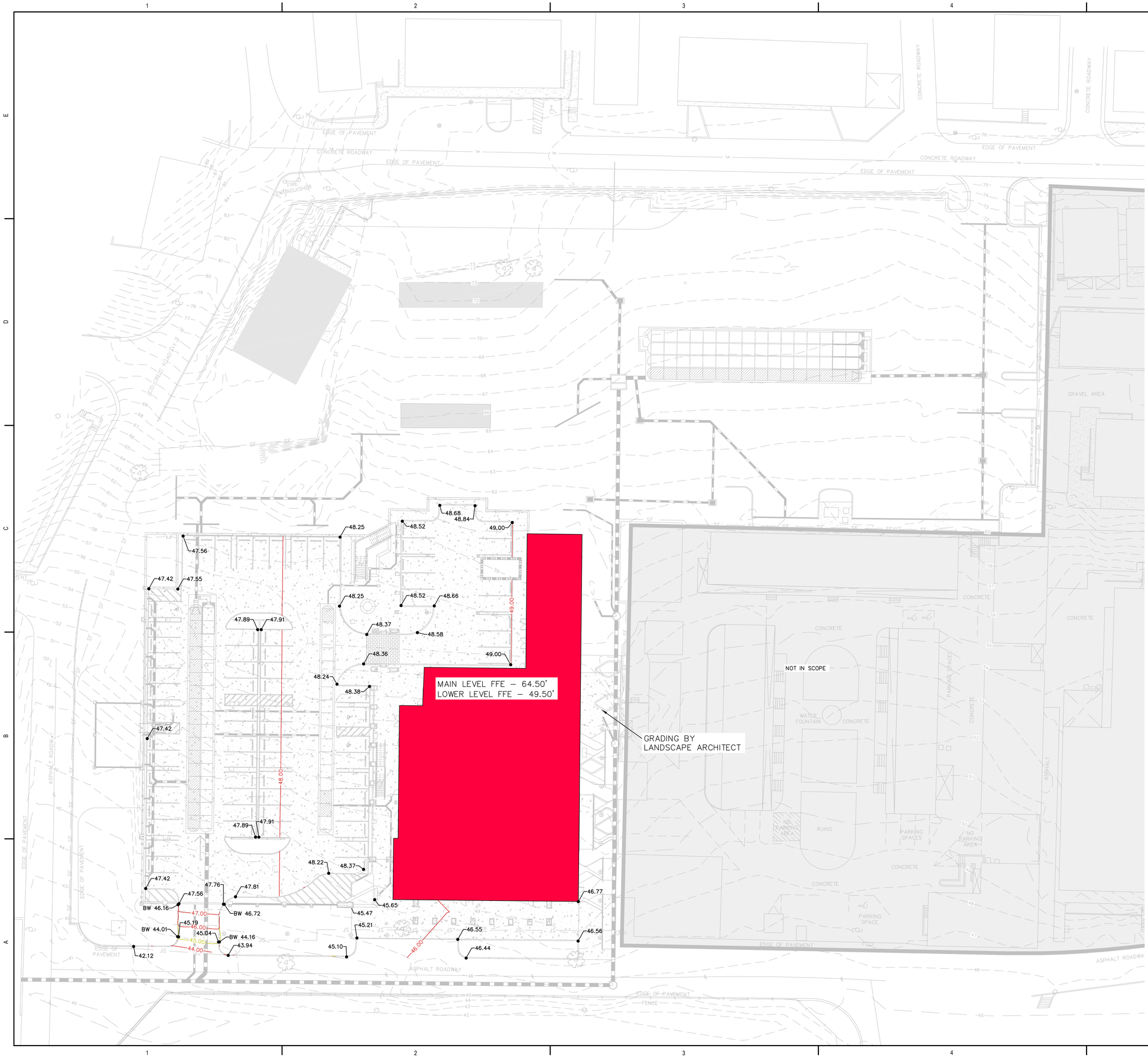
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GRADING LEGEND

- LIMITS OF WORK
- 26.50 FG — PROPOSED SPOT GRADE
- 25 — PROPOSED MAJOR CONTOUR
- 26 — PROPOSED MINOR CONTOUR

GRADING NOTES

1. SIDEWALK REQUIREMENTS:
   - THE PAVEMENT CROSS SLOPE MUST NOT EXCEED 2%.
   - IF THE LONGITUDINAL SLOPE OF THE SIDEWALK EXCEEDS 1:20 IT IS CONSIDERED A RAMP, AND A LEVEL LANDING MUST BE PROVIDED FOR EVERY 30–INCH CHANGE IN ELEVATION AND IN SUCH CASES HANDRAILS MAY BE REQUIRED.
2. SIDEWALK CURB RAMP REQUIREMENTS:
   - A LANDING MUST BE PROVIDED AT THE TOP OF RAMP WITH SLOPE THAT DOES NOT EXCEED 2% IN ANY DIRECTION.
   - THE CROSS SLOPE MUST NOT EXCEED 2%.
   - THE LONGITUDINAL SLOPE MUST NOT EXCEED 1:12.
   - THE RAMP SHALL HAVE A DETECTABLE WARNING SURFACE THAT SPANS THE FULL WIDTH OF THE DROP CURB/FLUSH CURB.
3. REFER TO LANDSCAPE ARCHITECT PLANS FOR ADDITIONAL GRADING INFORMATION AND SITE SECTIONS.

NORTH

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GRADING PLAN - LOWER

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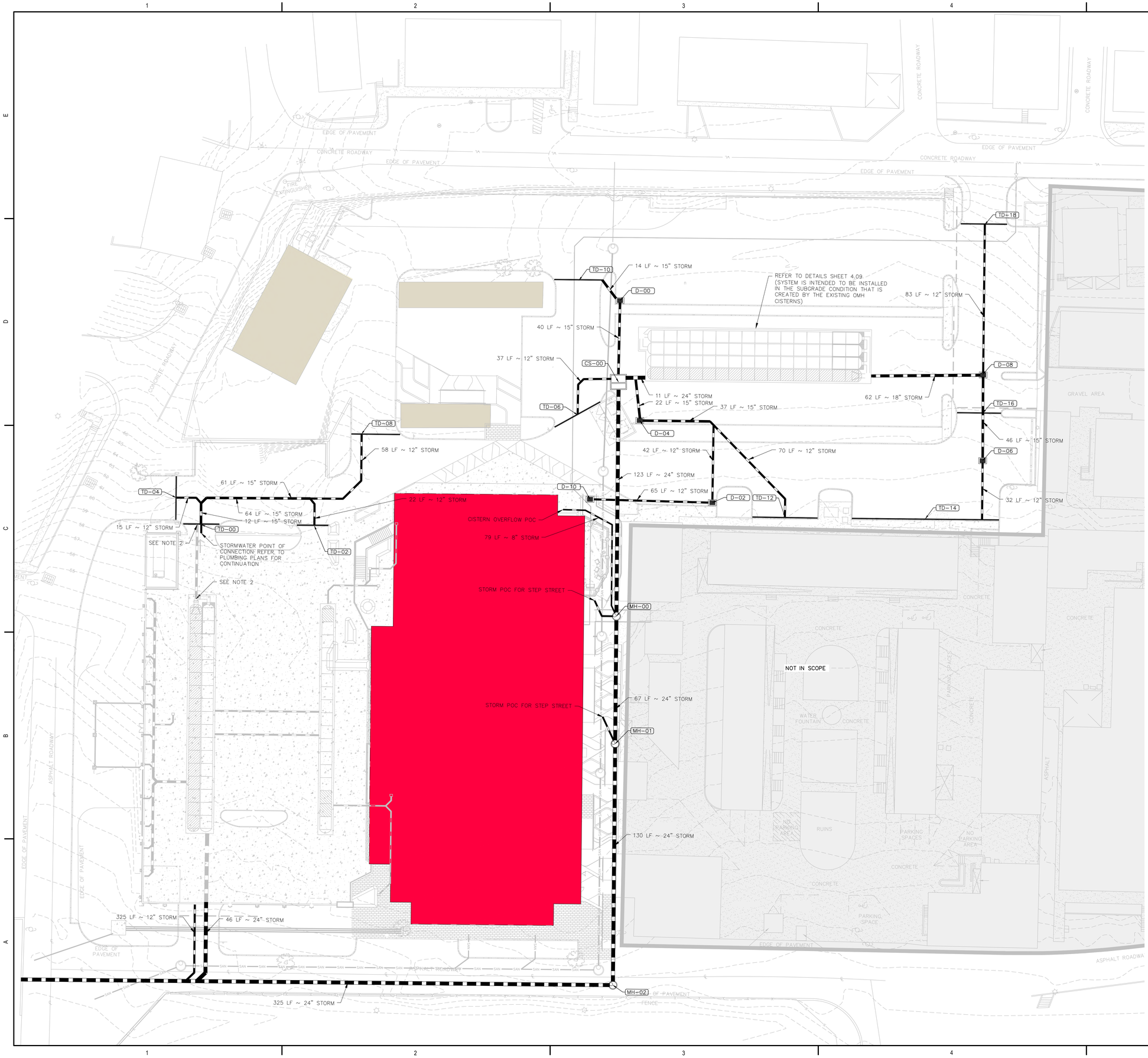
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NOVUS JOB NUMBER
470-23-49
OSR PROJECT NUMBER
010-9-101918

SHEET NUMBER
C2.01

30% CONSTRUCTION DRAWINGS

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DRAINAGE LEGEND

- STORMWATER PIPE
- TYPE D INLET
- AREA DRAIN
- TRENCH DRAIN
- STORMWATER MANHOLE

NOTES:

1. ALL STORMWATER STRUCTURES SHALL HAVE H20 VEHICULAR LOAD RATED GRATES.

2. CONTRACTOR SHALL INSTALL A 15" VERTICAL STORMWATER PIPE ALONG THE BACKSIDE OF THE GARAGE WALL TO AN INVERT ELEVATION OF 42.30. THE STORMWATER PIPE SHALL CONNECT TO THE PROPOSED UNDERGROUND CHAMBER SYSTEM BENEATH THE LOWER ENTRANCE LEVEL WITH A FFE OF 47.42. CONNECTION TO THE STORMWATER CHAMBERS SHALL BE MADE AT AN INVERT ELEVATION OF 42.10

DATA STRUCTURE TABLE

INLETS

D-00
TYPE C INLET
GRATE=68.41
IE=64.15 (NW)
IE=64.15 (S)
N844409.06
E1178833.35

D-02
TYPE C INLET
GRATE=63.10
IE=60.10 (N)
N844289.66
E1178861.37

D-04
TYPE C INLET
GRATE=65.00
IE=58.45 (E)(N)
N844342.01
E1178831.01

D-06
TYPE C INLET
GRATE=63.80
IE=59.10 (N)
N844283.02
E1179012.17

D-08
TYPE C INLET
GRATE=66.50
IE=62.50 (N)
IE=57.85 (W)(S)
N844329.66
E1179021.56

D-10
TYPE C INLET
GRATE=SEE GRADING SHEET
IE=60.20 (E)
N844304.75
E1178795.52

MANHOLES

MH-00
STORMWATER MANHOLE
RIM=XX.XX
IE=55.00 (W)(SW)
IE=54.95 (N)(S)
N844238.60
E1178797.10

MH-01
STORMWATER MANHOLE
RIM=XX.XX
IE=54.70 (NW)
IE=54.60 (N)(S)
N844169.70
E1178782.60

MH-02
STORMWATER MANHOLE
RIM=45.72
IE=40.72 (N)(W)
N844039.34
E1178755.16

TRENCH DRAINS

TD-00
TRENCH DRAIN
GRATE=61.00
IE=57.50 (N)
IE=42.30 (S)

TD-10
TRENCH DRAIN
GRATE=XX.XX
IE=XX.XX (S)

TD-02
TRENCH DRAIN
GRATE=63.00
IE=58.68 (N)

TD-12
TRENCH DRAIN
GRATE=62.00
IE=59.00 (N)

TD-04
TRENCH DRAIN
GRATE=62.50
IE=58.50 (E)

TD-14
TRENCH DRAIN
GRATE=62.25
IE=59.25 (N)

TD-06
TRENCH DRAIN
GRATE=65.50
IE=61.50 (N)

TD-16
TRENCH DRAIN
GRATE=65.50
IE=58.95 (N)(S)

TD-08
TRENCH DRAIN
GRATE=XX.XX
IE=XX.XX (S)

TD-18
TRENCH DRAIN
GRATE=72.00
IE=68.00 (S)

CONTROL STRUCTURE

CS-00
CONTROL STRUCTURE
REFER TO DETAIL 4 ON SHEET C4.06

NORTH

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DRAINAGE PLAN

REVISIONS:

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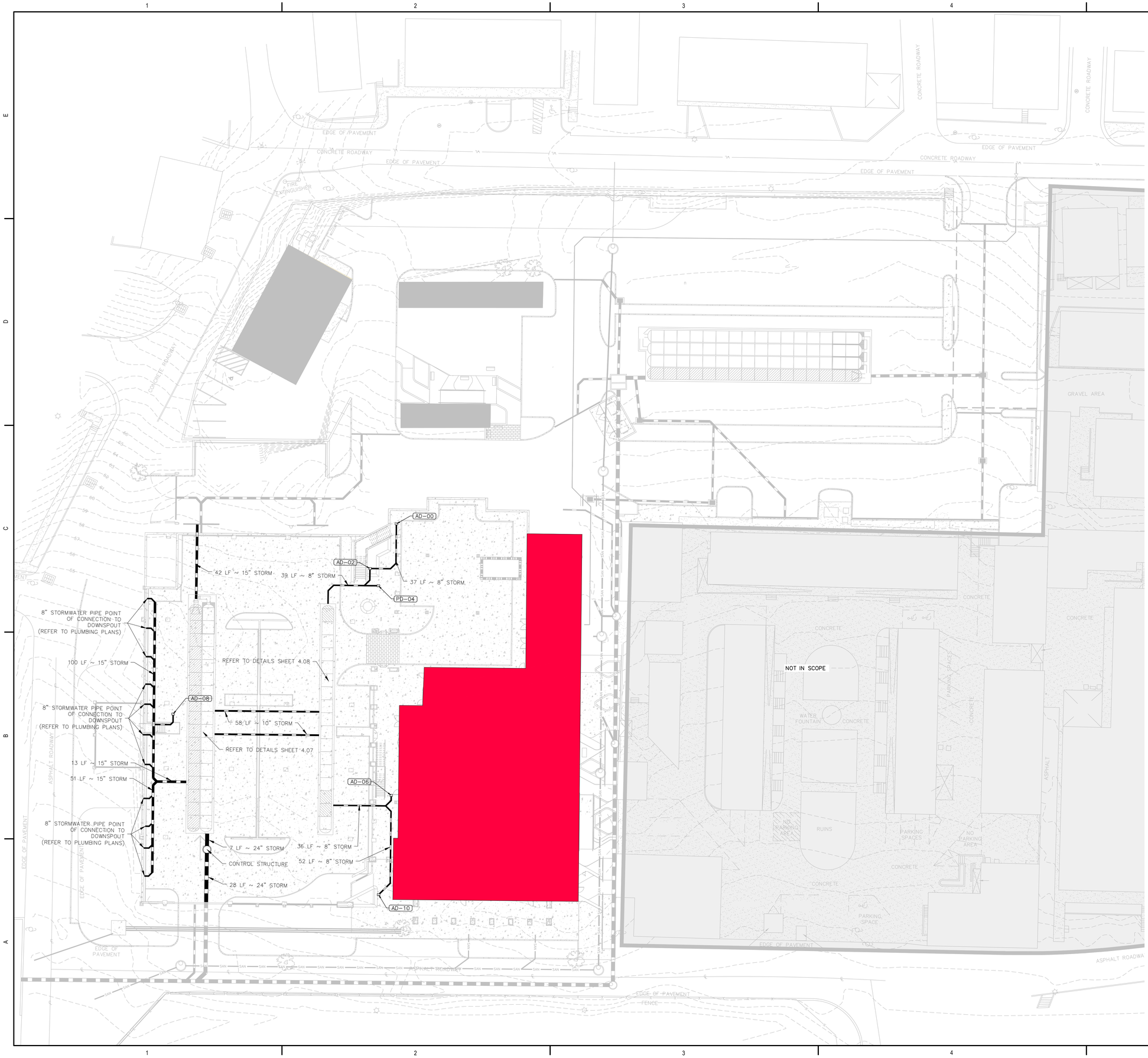
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DRAINAGE LEGEND

- STORMWATER PIPE
- TYPE D INLET
- AREA DRAIN
- TRENCH DRAIN
- STORMWATER MANHOLE

NOTES:

1. ALL STORMWATER STRUCTURES SHALL HAVE H20 VEHICULAR LOAD RATED GRATES.

2. CONTRACTOR SHALL INSTALL A 15" VERTICAL STORMWATER PIPE ALONG THE BACKSIDE OF THE GARAGE WALL TO AN INVERT ELEVATION OF 42.30. THE STORMWATER PIPE SHALL CONNECT TO THE PROPOSED UNDERGROUND CHAMBER SYSTEM BENEATH THE LOWER ENTRANCE LEVEL WITH A FFE OF 47.42. CONNECTION TO THE STORMWATER CHAMBERS SHALL BE MADE AT AN INVERT ELEVATION OF 42.10

DATA STRUCTURE TABLE

AREA DRAINS LOWER LEVEL

AD-00 AREA DRAIN RIM=XX.XX IE=XX.XX (S) N844312.48 E1178688.12	AD-06 AREA DRAIN RIM=XX.XX IE=XX.XX (S) N844166.12 E1178655.81
AD-02 AREA DRAIN RIM=XX.XX IE=XX.XX (E)(S) N844291.15 E1178668.92	AD-08 AREA DRAIN RIM=XX.XX IE=XX.XX (S) N844233.77 E1178546.62
PD-04 AREA DRAIN RIM=XX.XX IE=XX.XX (W) N844280.92 E1178671.63	AD-10 AREA DRAIN RIM=XX.XX IE=XX.XX (NE) N84411 3.71 E1178638.19

NORTH

20 0 10 20 40

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DRAINAGE PLAN - LOWER

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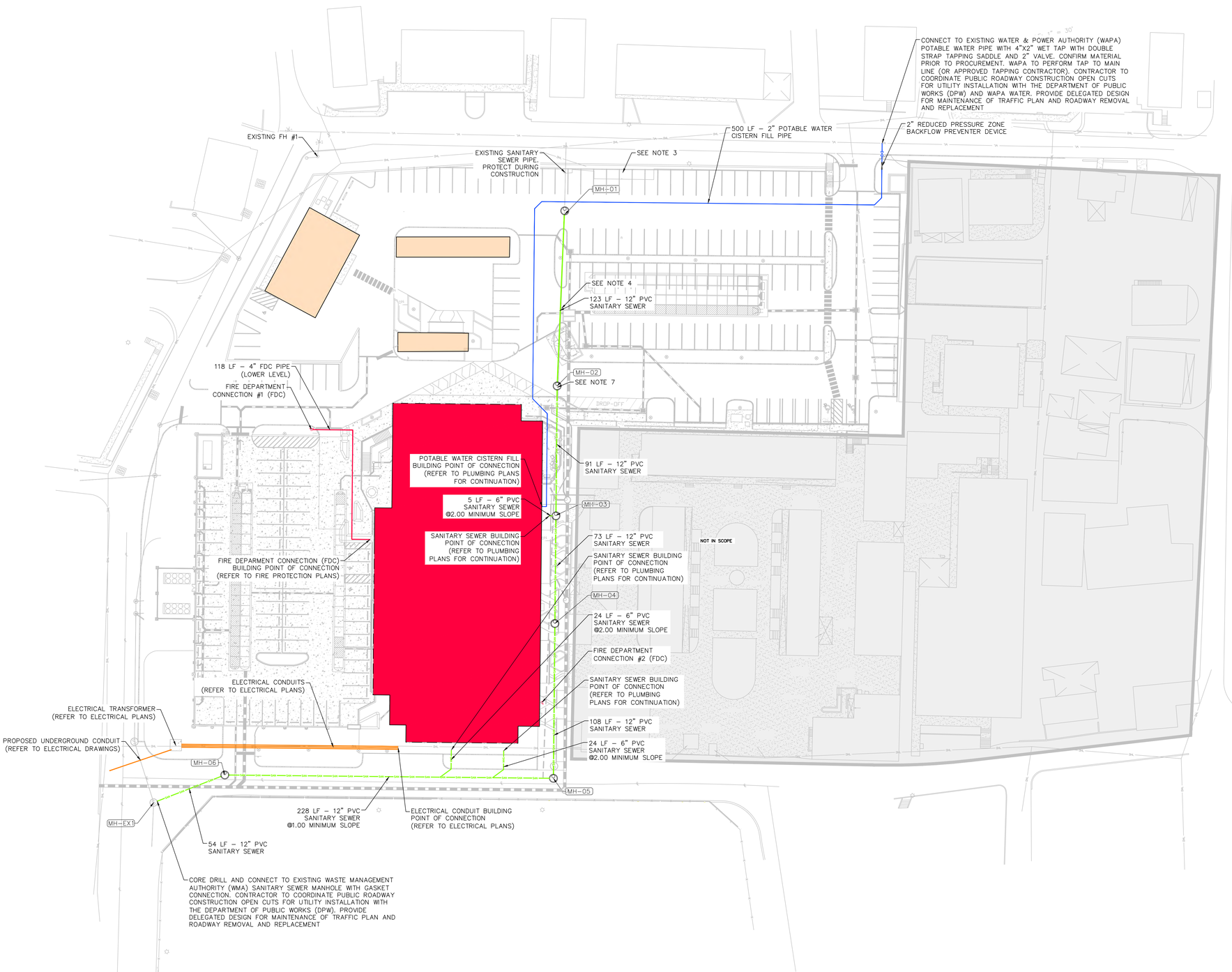
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UTILITY LEGEND

- SANITARY SEWER GRAVITY PIPE
- POTABLE WATER PIPE
- FIRE WATER PIPE
- SANITARY SEWER MANHOLE

NOTES:

1. PIPE MATERIALS
   * SANITARY SEWER – SDR26 PVC
   * POTABLE WATER – AWWA C901 POLYETHYLENE (PE) PRESSURE PIPE AND TUBING
   * POTABLE WATER – AWWA C900, CLASS 150, DR18
   * FIRE WATER – AWWA C151, CLASS 350, DIP
2. CONTRACTOR TO COORDINATE ELECTRICAL AND TELECOMMUINCATIONS SERVICES DESIGN WITH WAPA POWER AND THE ELECTRICAL ENGINEER.
3. EXISTING ELECTRICAL INFRASTRUCTURE TO REMAIN DURING PHASE I. INFRASTRUCTURE AND COMPONENTS ARE TO MAINTAIN ACTIVE TO AVOID ANY POWER OUTAGE TO ALL BUILDING ON CAMPUS WITH THE EXCEPTION OF THE OLD MENTAL HEALTH BUILDING TO BE DEMOLISHED. COORDINATE WITH WAPA POWER. CONTRACTOR TO ENSURE ALL EXISTING POWER FEEDS INTERRUPTED AS PART OF THIS TRANSFORMER REMOVAL ARE REESTABLISHED SUCH THAT THERE ARE NOT DISRUPTIONS IN SERVICE.
4. EXISTING SANITARY SEWER PIPING AND DOWNSTREAM MANHOLES TO BE FIELD VERIFIED PRIOR TO DEMOLITION TO CONFIRM IF TIE–INS OCCUR DOWNSTREAM OF THE REROUTED MANHOLE. DOCUMENT RIM/INVERTS, PIPE SIZE(S), LATERAL CONNECTIONS, AND MATERIALS TO CONFIRM DESIGN. CMAR TO PROVIDE DELEGATED DESIGN FOR THE SANITARY SEWER SYSTEM UPON COMPLETING THE INVESTIGATION. CIVIL ENGINEERS SHALL BE PROVIDED SHOP DRAWINGS FOR REVIEW AND COMMENT PRIOR TO MATERIALS AND/OR STRUCTURES PROCUREMENT.
5. CONTRACTOR TO OPEN CUT ROADWAY AS NECESSARY TO FACILITATE UTILITY INSTALLATIONS.
6. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO: POTABLE WATER, FIRE WATER, IRRIGATION, SANITARY SEWER, ELECTRICAL, STORMWATER, TELECOMMUNICATIONS, CHILLED WATER, GAS, FUEL, ECT. SHALL BE MAINTAINED AS OPERATIONAL FOR ALL EXISTING USERS THROUGHOUT CONSTRUCTION. CMAR TO PROVIDE TEMPORARY MEANS AND METHODS TO MAINTAIN FUNCTIONALITY. ANY INTERFERENCES ARE TO BE REMEDIATED IMMEDIATELY.
7. CONTRACTOR IS REQUIRED TO INSTALL A TEMPORARY SANITARY SEWER PUMP TO REROUTE THE SANITARY SEWER FLOW INTO THE EXISTING OFFSITE SANITARY SEWER SYSTEM. THE CONTRACTOR WILL REMOVE THE TEMPORARY PUMP WHEN THE SANITARY SEWER SYSTEM INFRASTRUCTURE IS INSTALLED AND TESTED.

DATA STRUCTURE TABLE

MH-EX1
EXISTING SANITARY SEWER MANHOLE
RIM=41.10'
IE=EXISTING (FIELD VERIFY)
IE=53.78 (E)
N844087.54
E1178470.73

MH-01
SANITARY SEWER MANHOLE
RIM=69.48'
IE=FIELD VERIFY (N)(EXISTING)
IE=62.75 (S)
N844435.37
E1178834.62

MH-02
SANITARY SEWER MANHOLE
RIM=64.30'
IE=60.30 (N)
IE=60.15 (S)
N844318.42
E1178805.73

MH-03
SANITARY SEWER MANHOLE
RIM=58.80'
IE=54.80 (N) (DROP STRUCTURE)
IE=54.80 (W) (DROP STRUCTURE)
IE=51.50 (S)
N844229.52
E1178787.02

MH-04
SANITARY SEWER MANHOLE
RIM=53.40'
IE=49.40 (N)
IE=49.25 (S)
N844155.35
E1178771.40

MH-05
SANITARY SEWER MANHOLE
RIM=46.00'
IE=42.00 (N)
IE=41.85 (W)
N844049.08
E1178749.04

MH-06
SANITARY SEWER MANHOLE
RIM=43.40'
IE=39.40 (E)
IE=39.25 (W)
N844096.72
E1178523.46

NORTH

20 0 10 20 40

1 Inch = 20 Ft on 42"x 30" Sheet
This plan may have been reduced in size. Verify before scaling dimensions

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN COMPLEX
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

UTILITY PLAN

REVISIONS:

No.	Description	Date

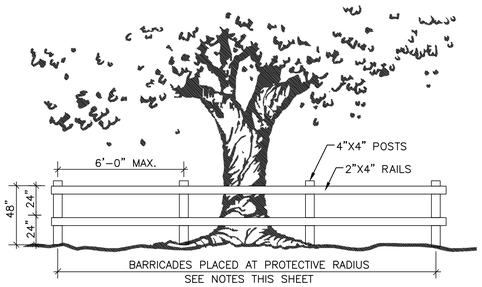
DRAWN BY: CT
CHECKED BY: NDW
DATE: 04.03.2026
NOVUS JOB NUMBER: 470-23-49
CDR PROJECT NUMBER: 010-9-101918

SHEET NUMBER: C3.00

NOT FOR CONSTRUCTION

30% CONSTRUCTION DRAWINGS

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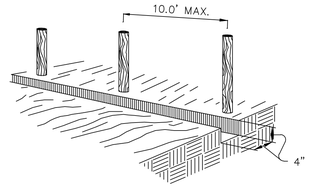


	TREES LESS THAN 12" CALIPER:	TREES 12" OR GREATER CALIPER:
SETBACKS FROM TRUNK	6 FEET	10 FEET
AREA– SINGLE TREE	250 SQ. FT.	800 SQ. FT.
AREA EACH ADDITIONAL TREE IN A GROUP	90 SQ. FT.	200 SQ. FT.

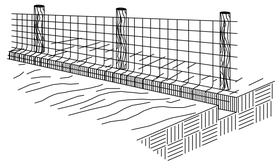
THE LARGEST TREE IN ANY GROUP SHALL BE CONSIDERED THE FIRST TREE FOR COUNTING PURPOSES. SETBACKS FROM TRUNKS SHALL BE MEASURED FROM EACH INDIVIDUAL TREE IN A GROUP.

NOTE: TREE BARRICADES IN BUFFER TO BE REMOVED UPON COMPLETION OF PARKING LOT PAVING AND CURB/SIDEWALK PLACEMENT.

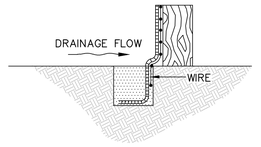
TREE PROTECTION DETAIL
N.T.S. — 1 / 4.00



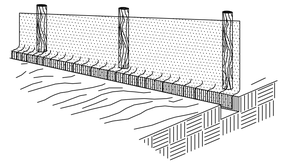
1. SET POSTS AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



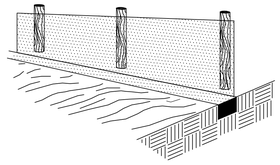
2. STAPLE WIRE FENCE TO THE POSTS.



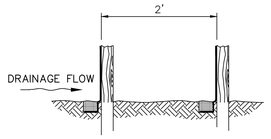
3. EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.



4. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.

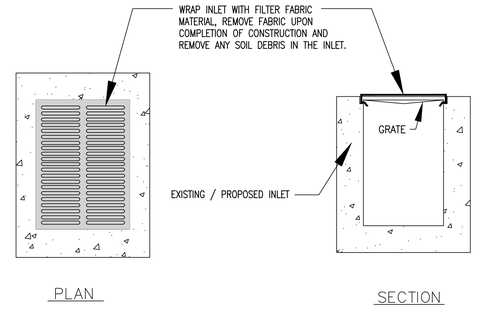


5. BACKFILL AND COMPACT THE EXCAVATED SOIL.

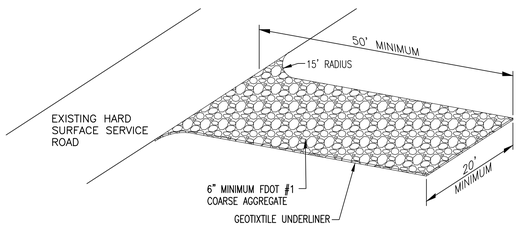


6. INSTALL SECOND SILT FENCE FOLLOWING STEPS 1 TO 4.

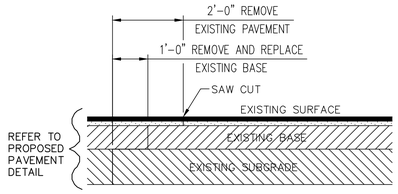
SILT FENCE DETAIL
N.T.S. — 2 / C4.00



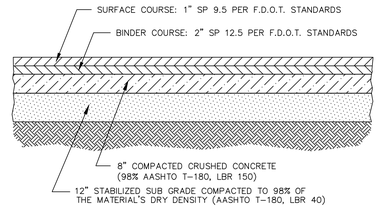
INLET PROTECTION FILTER FABRIC DETAIL
N.T.S. — 3 / C4.00



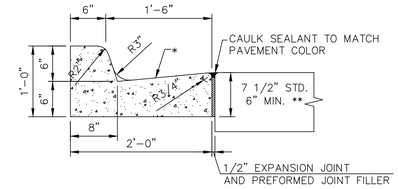
CRUSHED STONE CONSTRUCTION ENTRANCE
N.T.S. — 4 / C4.00



EXISTING TO NEW ASPHALT PAVEMENT DETAIL
N.T.S. — 5 / C4.00



ASPHALT PAVEMENT DETAIL
N.T.S. — 6 / C4.00

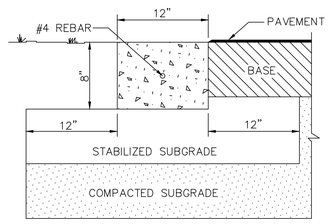


NOTE:
FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT. DETAIL SHOWN NEXT TO CONCRETE PAVEMENT. PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN THE CURB & GUTTER AND CONCRETE PAVEMENT ONLY.

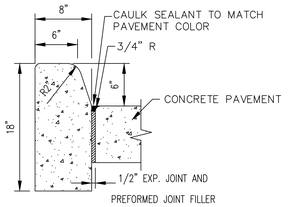
* WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.

* * SEE PLANS AND PAVEMENT DETAIL FOR THICKNESS OF PAVEMENT

TYPE "F" CURB & GUTTER
N.T.S. — 7 / C4.00

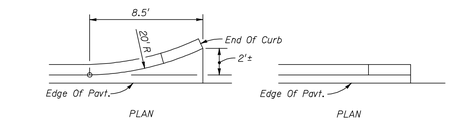


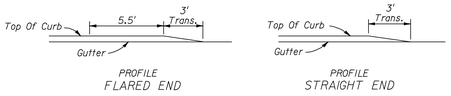
RIBBON CURB DETAIL
N.T.S. — 8 / C4.00

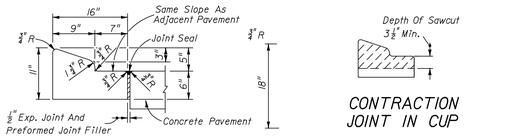


NOTE: FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT. DETAIL SHOWN NEXT TO CONCRETE PAVEMENT. PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN THE CURB AND CONCRETE PAVEMENT ONLY.

TYPE D CURB
N.T.S. — 9 / C4.00



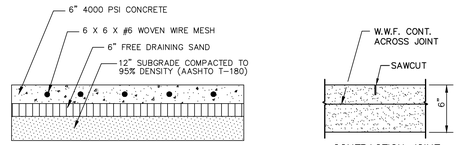


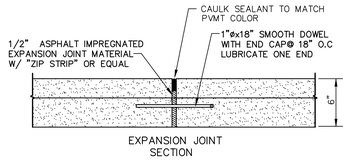


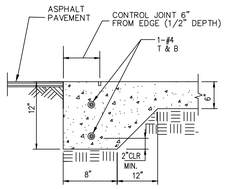
For details depicting usage adjacent to flexible pavement, see diagram right.

Note:
For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see diagram right.

TYPE A CURB
N.T.S. — 10 / C4.00



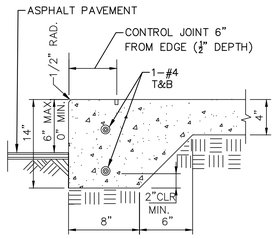




TYPICAL PAVEMENT – THICKENED EDGE

NOTES:
1. SAW CONTRACTION JOINTS TO 25% OF PAVEMENT DEPTH AT 12' ON CENTER. PROVIDE EXPANSION JOINTS WHERE CONCRETE PAVING ABUTS WALL, CURB AND OTHER CONCRETE PAVING AS INDICATED.
2. PLACE DOWELS THROUGH EXPANSION JOINTS
3. WIRE FABRIC SHALL BE SUPPLIED IN SHEETS, NOT ROLLS

CONCRETE PAVEMENT DETAIL
N.T.S. — 11 / C4.00



CONC. WALK – THICKENED EDGE

NOTES:
1. A THICKENED EDGE SHALL BE PROVIDED BETWEEN SIDEWALK, DRIVEWAYS OR PARKING LOT.
2. SLOPE CONC. SIDEWALKS AWAY FROM BLDG'S TO PROVIDE POSITIVE DRAINAGE.
3. PROVIDE CONTROL JOINTS AT INTERVALS EQUAL TO SIDEWALK WIDTH.
4. PROVIDE EXPANSION JOINTS IN SIDEWALKS IN PLACE OF EVERY SIXTH CONTROL JOINT.
5. PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT WHERE CONCRETE WALK ABUTS STRUCTURES, POLES, AND OTHER SIDEWALKS, ETC.
6. ALL SIDEWALKS SHALL HAVE A MAXIMUM 2% CROSS-SLOPE.
7. SIDEWALKS SHALL BE MINIMUM 5 FOOT WIDE.
8. ALL SIDEWALKS SHALL HAVE WELDED WIRE MESH, 6"x6"x6", WITH ONE #5 CONTINUOUS REINFORCING BAR IN EACH SIDE.

SIDEWALK DETAIL
N.T.S. — 12 / C4.00

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OFFICE OF DISASTER RECOVERY — U.S. VIRGIN ISLANDS

GOVERNMENT OF THE U.S. VIRGIN ISLANDS — DEPARTMENT OF HUMAN SERVICES

GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS — DEPARTMENT OF HEALTH

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN COMPLEX
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

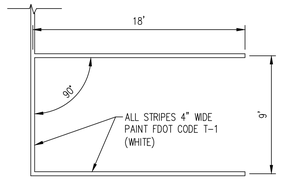
NOVUS JOB NUMBER: 470-23-49

CDR PROJECT NUMBER: 010-9-101918

SHEET NUMBER: C4.00

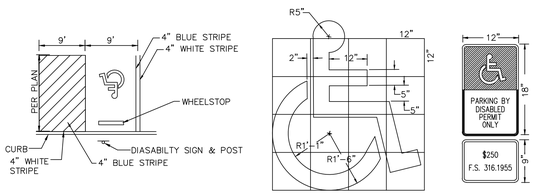
NOT FOR CONSTRUCTION

30% CONSTRUCTION DRAWINGS



PARKING STALL STRIPING DETAIL

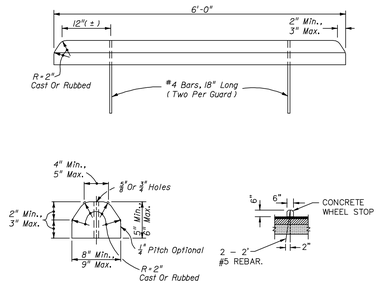
N.T.S. — 1 / C4.01



NOTES:
1. ALL LETTERS ARE 1" SERIES "C", PER MUTCD.
2. TOP PORTION OF SIGN SHALL HAVE REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
4. ONE (1) SIGN IS REQUIRED FOR EACH PARKING SPACE.
5. HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 2A-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

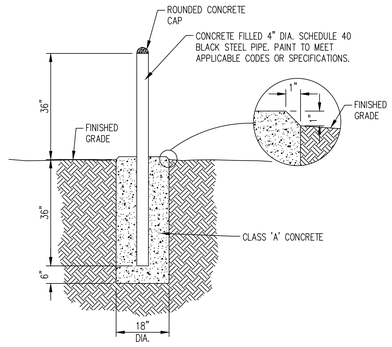
ACCESSIBLE PARKING DETAIL

N.T.S. — 2 / C4.01



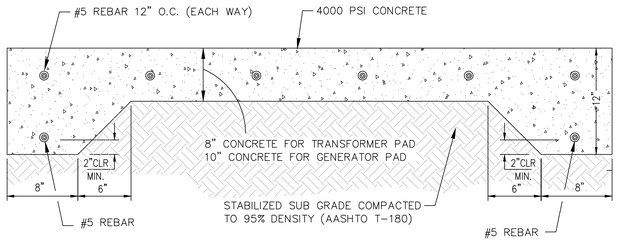
WHEEL STOP DETAIL

N.T.S. — 3 / C4.01



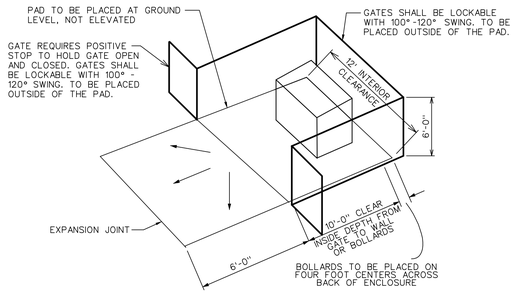
STEEL PIPE BOLLARD DETAIL

N.T.S. — 4 / C4.01



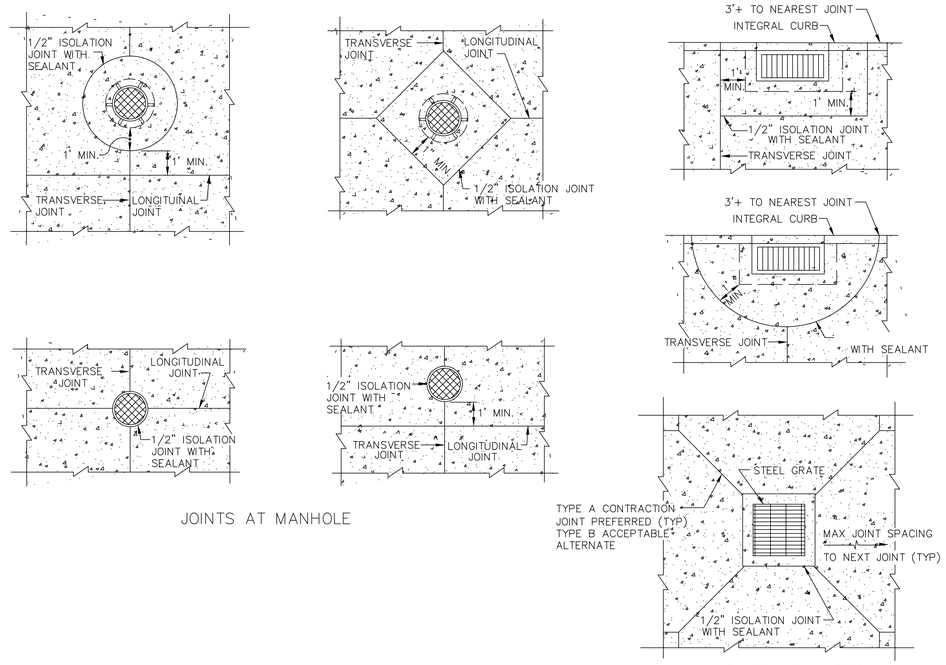
CONCRETE UTILITY PAD DETAIL

N.T.S. — 5 / C4.01



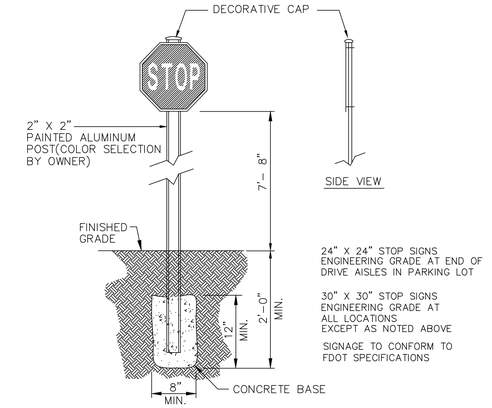
DUMPSTER ENCLOSURE DETAIL

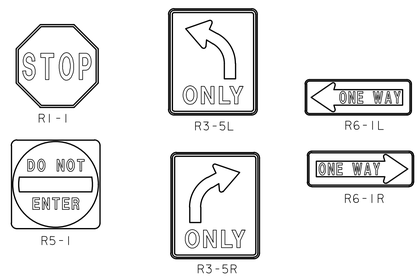
N.T.S. — 6 / C4.01



CONCRETE JOINTING DETAILS AT STRUCTURES

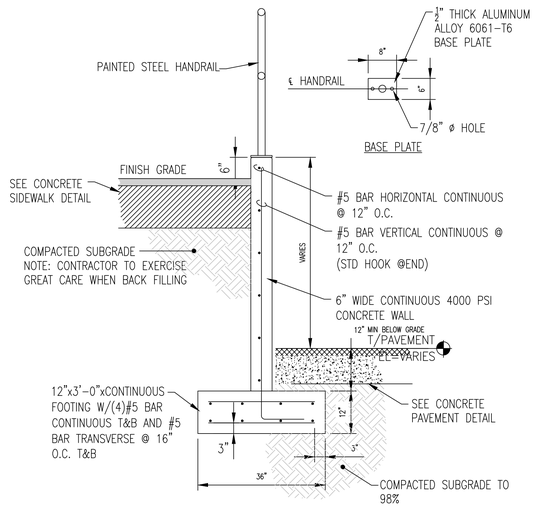
N.T.S. — 7 / C4.01





TYPICAL SIGN DETAIL

N.T.S. — 8 / C4.01



* FOR WALLS 4' IN HEIGHT OR LESS, REFER TO STRUCTURAL PLANS + DETAILS FOR WALLS GREATER THAN 4'.

RETAINING WALL DETAIL

N.T.S. — 9 / C4.01

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D	90% CDs	
E	100% CDs	

KNUD HANSEN COMPLEX
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

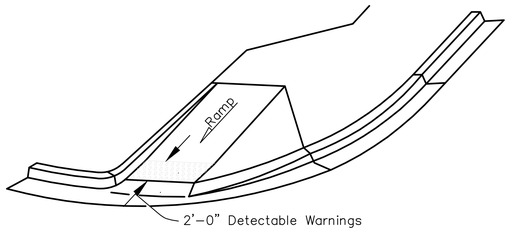
NOVUS JOB NUMBER
470-23-49

ODR PROJECT NUMBER
010-9-101918

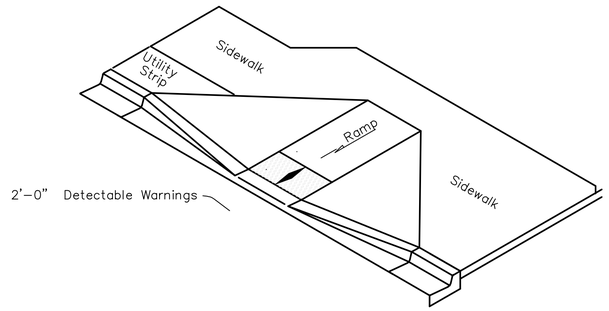
SHEET NUMBER
C4.01

30% CONSTRUCTION DRAWINGS

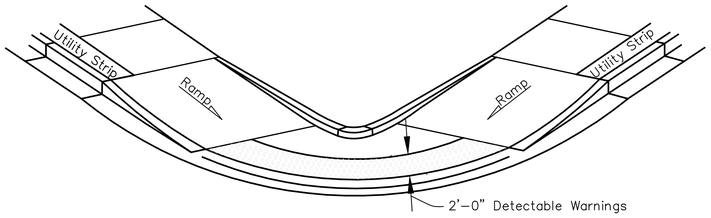
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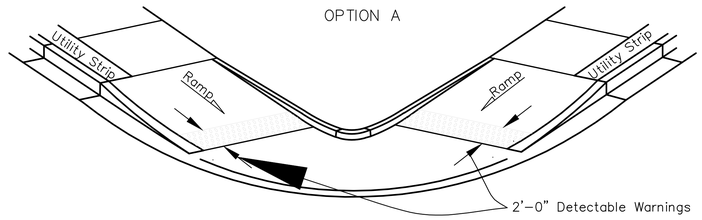
ISOMETRIC VIEW



ISOMETRIC VIEW

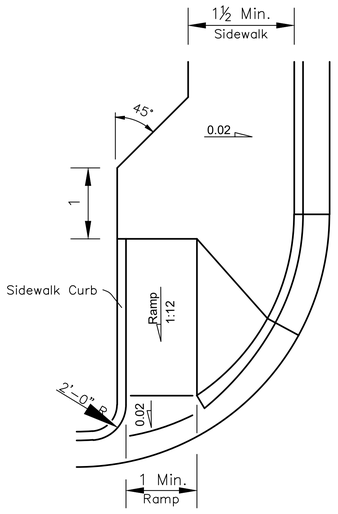


OPTION A



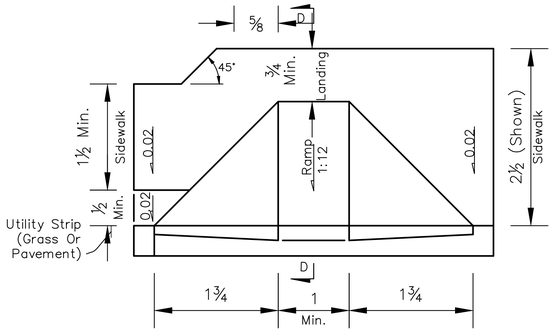
OPTION B

ISOMETRIC VIEW



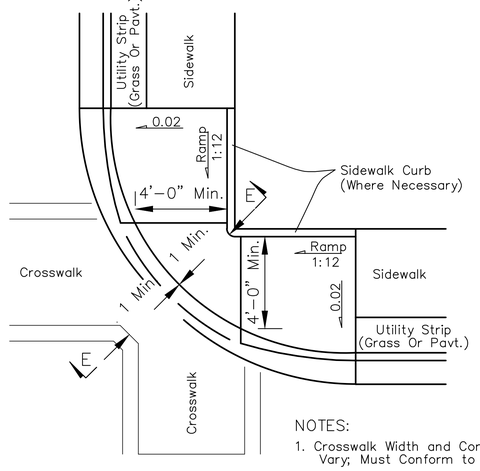
PLAN VIEW

CR–H



PLAN VIEW

CR–K

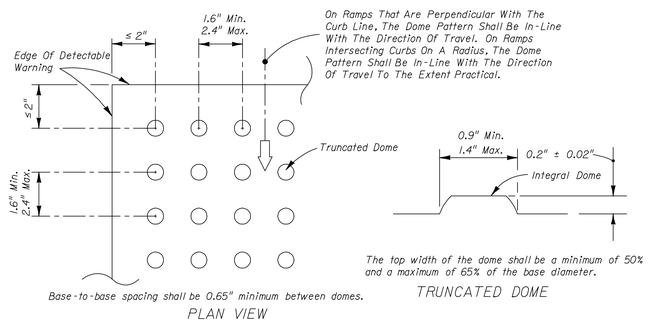


PLAN VIEW

CR–L

NOTES:

1. Crosswalk Width and Configuration Vary; Must Conform to Index 711–001.
2. 15' Radius Curve Shown for CR–L.
3. For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details, on Sheet 3.



PLAN VIEW

TRUNCATED DOME

All Sidewalk Curb Ramps Shall Have Detectable Warning Surfaces That Extend The Full Width Of The Ramp And In The Direction Of Travel 24 Inches (610 mm) From The Back Of Curb.

CURB RAMP DETECTABLE WARNING DETAIL

☆ Ramp Widths For Curb Ramps May Be Reduced To 3' Min. In Restricted Conditions When Approved By The Engineer.

** Lower landing not required at driveways, parking lots, or other areas with pavement cross–slopes less than 2% (0.02).

CURB RAMP DETAIL

N.T.S.

1 / C4.02

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SHEET NUMBER
C4.02

30% CONSTRUCTION DRAWINGS

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HORIZONTAL SEPARATION REQUIREMENTS (NOTES 1 & 2)										
PROPOSED UTILITY		POTABLE WATER		RECLAIMED WATER MAIN		WASTEWATER FORCEMAIN		SANITARY SEWER	STORM SEWER	STRUCTURAL FOUNDATION, WALLS, ETC. (SEE NOTE 4)
		4"-12"	16"-UP	4"-12"	16"-UP	4"-12"	16"-UP	ALL SIZES	ALL SIZES	ALL SIZES
POTABLE WATER	4"-12"	3'	5'	3'	5'	6'	6'	6'	3'	10'
	16"-UP	5'	5'	5'	5'	6'	6'	6'	5'	15'
RECLAIMED WATER MAIN	4"-12"	3'	5'	3'	5'	3'	5'	3'	3'	10'
	16"-UP	5'	5'	5'	5'	5'	5'	5'	5'	15'
WASTEWATER FORCEMAIN	4"-12"	6'	6'	3'	5'	3'	5'	3'	3'	10'
	16"-UP	6'	6'	5'	5'	5'	5'	5'	5'	15'
SANITARY SEWER	ALL SIZES	6'	6'	3'	5'	3'	5'	3'	5'	VARIES PER DEPTH

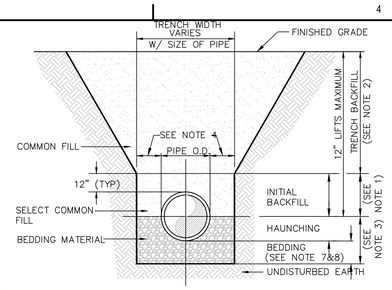
NOTES:
1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. FOR PIPES INSTALLED AT GREATER DEPTHS THAN THE MINIMUM DESIGN STANDARDS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
3. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
4. ADDITIONAL SEPARATION SHALL BE REQUIRED BY UTILITIES FOR CONSTRUCTION OF, INCLUDING, BUT NOT LIMITED TO; LIVE LOADS, MULTI-STORY COMMERCIAL BUILDINGS, SUPERSTRUCTURES, EMBANKMENTS, RETAINING WALLS, BRIDGES, RAILROADS, HIGH VOLTAGE TRANSMISSION MAINS, GAS MAINS, ETC.

HORIZONTAL PIPELINE SEPERATION REQUIREMENTS
N.T.S. — 1 C4.03

VERTICAL SEPARATION REQUIREMENTS (NOTES 1 & 2)					
PROPOSED UTILITY	POTABLE WATER	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)
POTABLE WATER	12"	12"	12" / 18"	12" / 18"	12" / 18"
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"

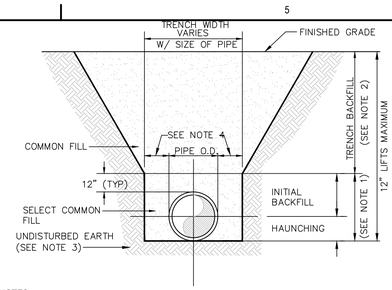
NOTES:
1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE.
3. THE 18-IN SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE OR SANITARY SEWER CROSSES ABOVE THE UTILITY MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24-IN. OTHERWISE, THE REQUIRED SEPARATION IS 12-IN.
4. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
5. JOINT SPACING AT CROSSING SHALL COMPLY WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, F.A.C.

VERTICAL PIPELINE SEPERATION REQUIREMENTS
N.T.S. — 2 C4.03



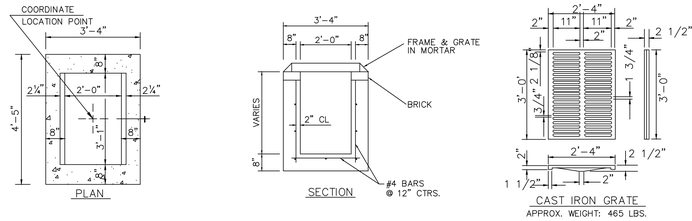
NOTES:
1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.

BED AND TRENCH TYPE A
N.T.S. — 3 C4.03



NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.

BED AND TRENCH TYPE B
N.T.S. — 4 C4.03



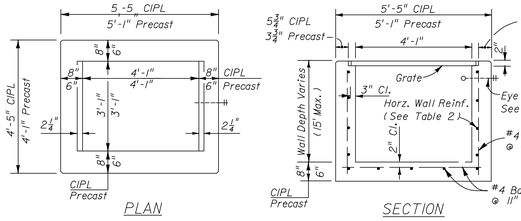
NOTE: GRATE MUST BE CAPABLE OF SUPPORTING H-20 HIGHWAY LOADS

USE USF FRAME & GRATE #4160 & #6210

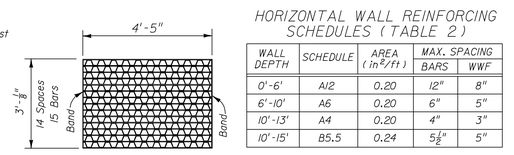
RECOMMENDED MAXIMUM PIPE SIZE:
2'-0" WALL – 18" PIPE
3'-1" WALL – 24" PIPE

NOTE: 1. FOR PRECAST STRUCTURES WALL THICKNESS CAN BE 6" MIN.
2. INVERTS TO BE GROUTED & FORMED PER F.D.O.T. INDEX No. 425

TYPE C INLET DETAIL
N.T.S. — 5 C4.03



FDOT TYPE 'D' INLET
N.T.S. — 6 C4.03

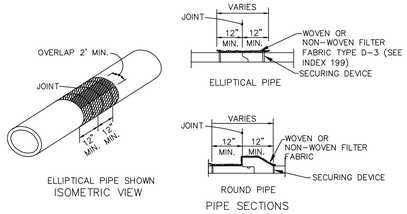


TYPE D
Straight Bars 2"x¼"
Reticuline Bars 1¼" x 3/16"
Bands 2"x¼"
Approx. Weight 190 Lbs.

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (in²/ft)	MAX. SPACING BARS	MAX. SPACING WWF
0'-6'	A12	0.20	12"	8"
6'-10'	A6	0.20	6"	5"
10'-13'	A4	0.20	4"	3"
10'-15'	B5.5	0.24	5½"	5"

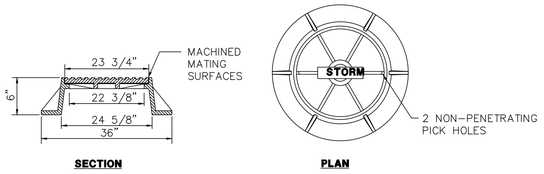
TYPE D
Recommended Maximum Pipe Size:
3'-1" Wall - 24" Pipe
4'-1" Wall - 36" Pipe



COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS.

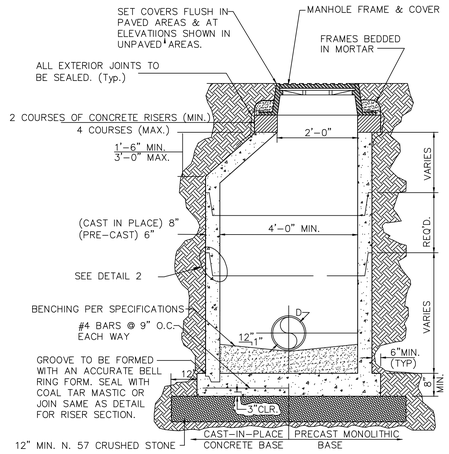
FOR ALL PIPE TYPES – CONCRETE PIPE SHOWN

FILTER FABRIC PIPE JACKET DETAIL
N.T.S. — 7 C4.03



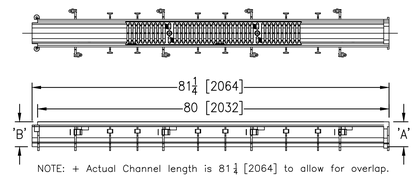
FRAME SHALL BE USF NO. 420. COVER SHALL BE USF TYPE G OR EQUAL AS APPROVED BY DESIGN ENGINEER.

STORM MANHOLE FRAME AND COVER DETAIL
N.T.S. — 8 C4.03

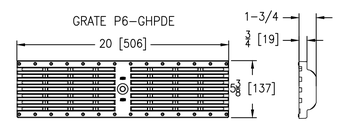


NOTES:
1. APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE IF APPROVED BY ENGINEER.
2. SEE MANHOLE CHANNELIZATION DETAIL FOR ADDITIONAL BENCHING DATA.
3. REINFORCING STEEL PER ASTM C-478-88a.
4. PRECAST CONCRETE PER ASTM C478.

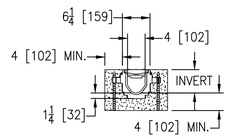
CONCRETE STORM MANHOLE DETAIL
N.T.S. — 11 C4.03



NOTE: + Actual Channel length is 81¼ [2064] to allow for overlap.

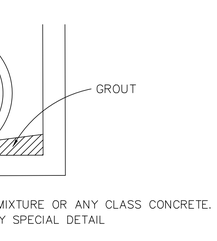


SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES



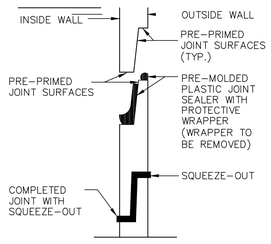
NOTE: GHPDE GRATE ENGINEERING SPECIFICATIONS: ZURN P6-GHPDE 20" [508mm] X 5-3/8"[137mm] GALVANIZED DUCTILE IRON HEEL-PROOF GRATE, WEIGHING 9.5 LBS PER LINEAR FOOT. THE GRATE HAS AN OPEN AREA OF 10.9in.² PER LINEAR FOOT. GRATE CONFORMS TO DIN RATING OF E, ANSI RATING OF SPECIAL -DUTY, ADA COMPLIANT, H20 AND FAA LOAD RATED AND ASTM AA536 GRADE 80-55-06. GALVANIZED (HOT DIP) CONFORMS TO ASTM A123

TRENCH DRAIN DETAIL
N.T.S. — 12 C4.03



NOTES:
1) GROUT TO CONSIST OF 3:1 SAND-CEMENT MIXTURE OR ANY CLASS CONCRETE.
2) FOR ALL STRUCTURES UNLESS EXCLUDED BY SPECIAL DETAIL

DRAINAGE STRUCTURE INVERT DETAIL
N.T.S. — 9 C4.03



STRUCTURE JOINT DETAIL
N.T.S. — 10 C4.02

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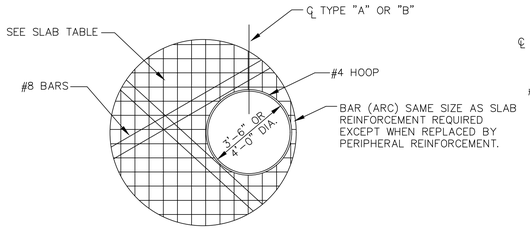
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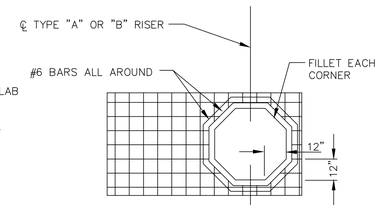
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SHEET NUMBER: C4.03

30% CONSTRUCTION DRAWINGS

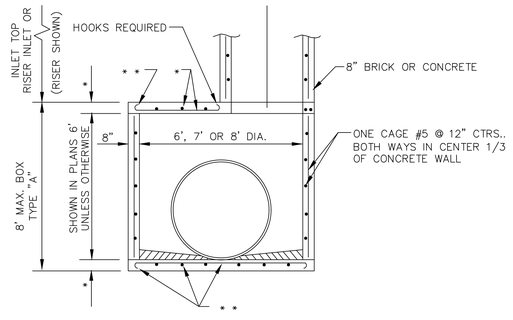
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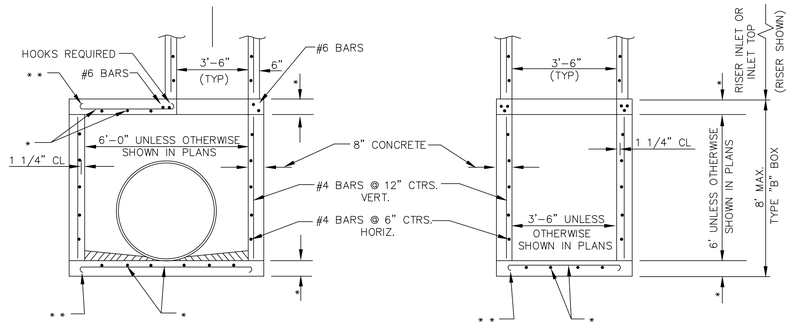
TOP SLAB REINFORCING STEEL DIAGRAM



TOP SLAB REINFORCING STEEL DIAGRAM



ALTERNATE A



ALTERNATE B

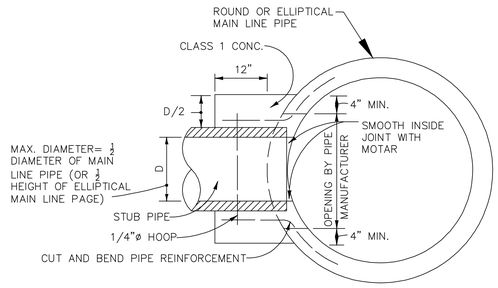
* SEE SLAB TABLE

* * PERIPHERAL BARS OR STRAIGHT END EMBEDMENTS MAY BE USED IN LIEU OF STANDARD HOOKS.

TYPE "J" STRUCTURE BOTTOM

N.T.S.

1 C4.04

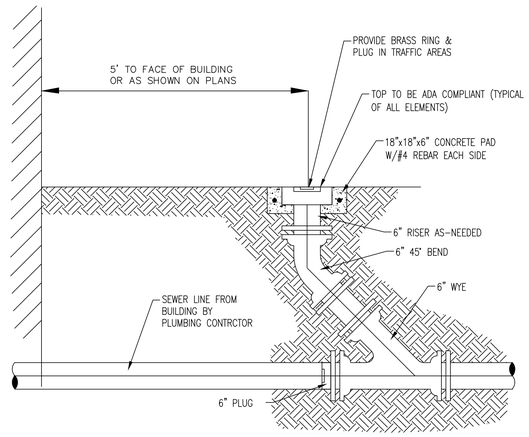


COST OF CONCRETE AND STEEL TO BE INCLUDED IN CONTRACT UNTILS PRICE FOR PIPE CULVERT

CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE

N.T.S. FDOT INDEX NO. 280

2 C4.04

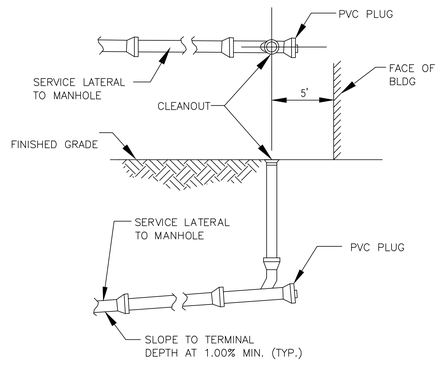


NOTE:
1. THE CONTRACTOR SHALL LEAVE THE CLEANOUT RISER 3'-4' ABOVE GRADE AND IT SHALL REMAIN SO UNTIL LOT BUILD OUT. THE RISER SHALL THEN BE CUT AND CAPPED AT FINISHED GRADE WITH A CONCRETE PAD.
2. ALL CLEANOUTS AND CONCRETE PADS TO BE FLUSH WITH FINISH GRADE.
3. UTILITY CONTRACTOR TO INSTALL & PRESSURE TEST SEWER LATERAL. PLUMBER TO REMOVE PLUG, INSTALL LINE TO BUILDING.
4. ETCH CURB WITH "S" WHERE LATERAL CROSSES UNDER CURB.
5. ALL LATERALS SHALL HAVE 6" CLEANOUTS.
6. CLEANOUT CAPS SHALL BE SLOTTED OR HAVE A RECESSED NUT.

SANITARY SEWER CLEANOUT DETAIL

N.T.S.

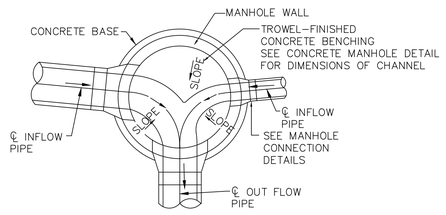
3 C4.04



SANITARY SEWER BUILDING SERVICE CONNECTION DETAIL

N.T.S.

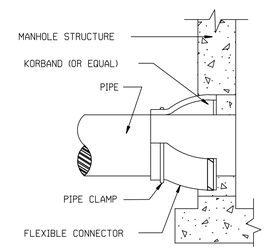
4 C4.04



SANITARY SEWER MANHOLE CHANNELIZATION DETAIL

N.T.S.

5 C4.04



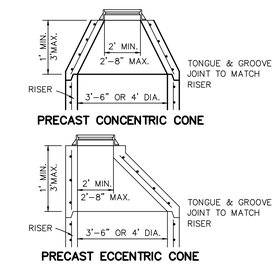
TYPICAL MANHOLE CONNECTION

N.T.S.

TYPICAL MANHOLE CONNECTION

N.T.S.

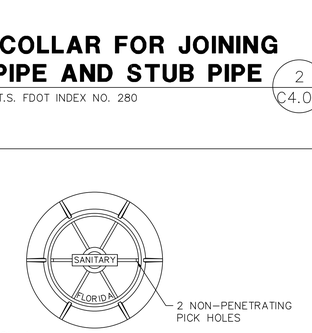
6 C4.04



MANHOLE COVER DETAIL

N.T.S.

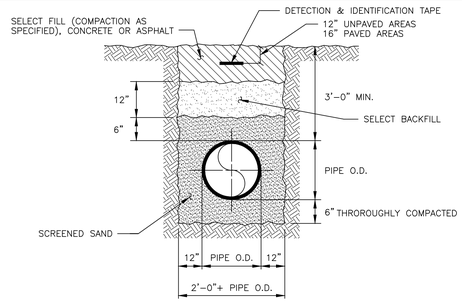
7 C4.04



SANITARY SEWER MANHOLE FRAME AND COVER DETAIL

N.T.S.

8 C4.04



TRENCH DETAILS FOR PVC

N.T.S.

9 C4.04

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C	60% CDs	
D	90% CDs	
E	100% CDs	

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1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

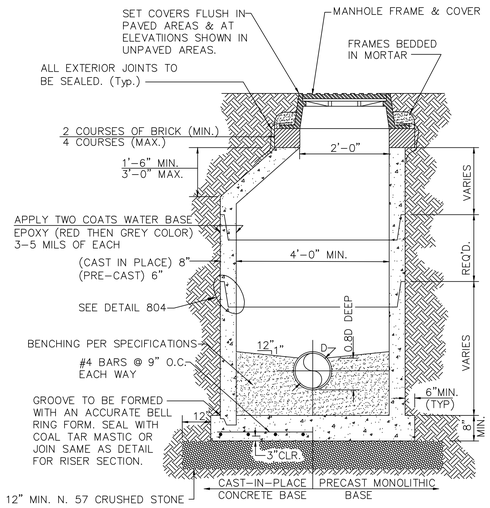
NOVUS JOB NUMBER
470-23-49

ODR PROJECT NUMBER
010-9-101918

SHEET NUMBER
C4.04

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30% CONSTRUCTION DRAWINGS

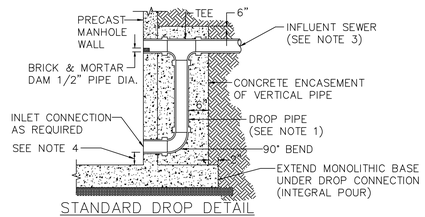


NOTES:
1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.
2. APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE.
3. SEE MANHOLE CHANNELIZATION DETAIL FOR ADDITIONAL BENCHING DATA.
4. REINFORCING STEEL PER ASTM C-478-88a.
5. PRECAST CONCRETE PER ASTM C478.

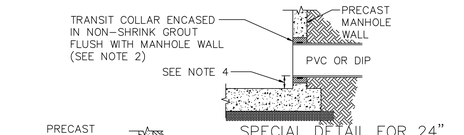
CONCRETE SANITARY SEWER MANHOLE

1 C4.05

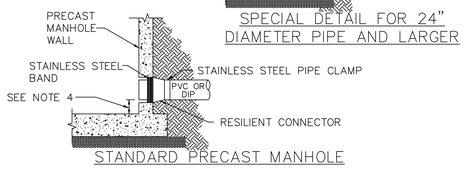
N.T.S.



STANDARD DROP DETAIL



SPECIAL DETAIL FOR 24" DIAMETER PIPE AND LARGER



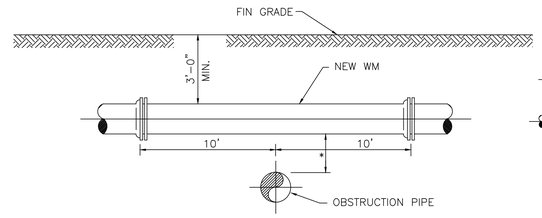
STANDARD PRECAST MANHOLE PIPE CONNECTION

NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE LOCAL MUNICIPALITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.
4. MINIMUM OF 0.10' ABOVE ℄ ELEVATION OF OUTFLOW PIPE, ABOVE TOP OF BENCH OR AS NOTED ON THE PLANS.

MANHOLE PIPE CONNECTION DETAILS

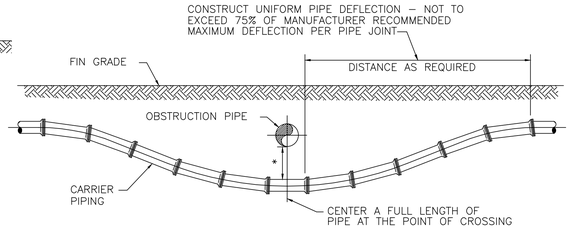
2 C4.05

N.T.S



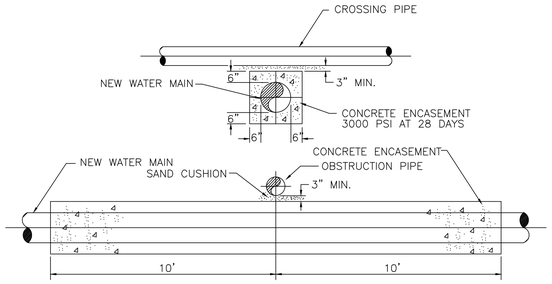
* 18" MIN CLEARANCE REQUIRED FOR WATER MAIN, REUSE MAIN, SANITARY SEWER AND STORM SEWER CROSSINGS, 12" MIN CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS. SEE DEFLECTION DETAIL IF MIN CLEARANCE CAN NOT BE OBTAINED.

TYPICAL



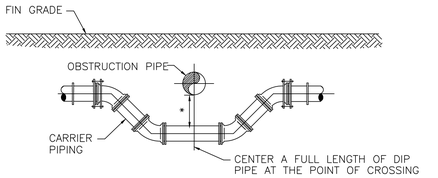
* 18" MIN CLEARANCE REQUIRED FOR WATER MAIN, REUSE MAIN SANITARY SEWER AND STORM SEWER CROSSINGS, 12" MIN CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS.

DEFLECTION



NOTE:
WHERE VERTICAL CLEARANCE OF 18" CANNOT BE MAINTAINED BETWEEN THE WATER MAIN AND THE SEWER, FULL ENCASEMENT OR DUCTILE IRON PIPE WITH ENCASED JOINTS MAY BE USED AT THE OPTION OF THE ENGINEER.

CONCRETE ENCASEMENT



* 18" MIN CLEARANCE REQUIRED FOR WATER MAIN, REUSE MAIN SANITARY SEWER AND STORM SEWER CROSSINGS, 12" MIN CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS.

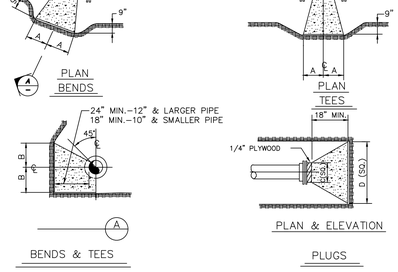
NOTES
WHENEVER POSSIBLE DEFLECTION OF THE PIPE WILL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS CROSSING SHALL BE USED ONLY WHEN ORDERED BY THE ENGINEER.

SPECIAL

UTILITY CROSSINGS DETAIL

3 C4.05

N.T.S.



TYPE	PIPE SIZE	90° BENDS		45° BENDS		22-1/2° & 11-1/4° BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
2000 P.S.F. SOIL	6" *	18"	11"	10"	11"	6"	9"	11"	13"	10"	24"
	8"	25"	14"	14"	14"	9"	11"	15"	17"	12"	32"
	10"	27"	20"	16"	19"	10"	15"	18"	22"	14"	40"
	12"	33"	23"	18"	23"	12"	18"	21"	26"	16"	47"
	14"	39"	26"	22"	26"	13"	22"	24"	30"	18"	54"
	16"	43"	30"	24"	30"	14"	26"	28"	33"	20"	61"
	20"	50"	39"	27"	39"	17"	32"	33"	42"	24"	74"
	24"	60"	45"	33"	45"	20"	38"	40"	49"	28"	88"

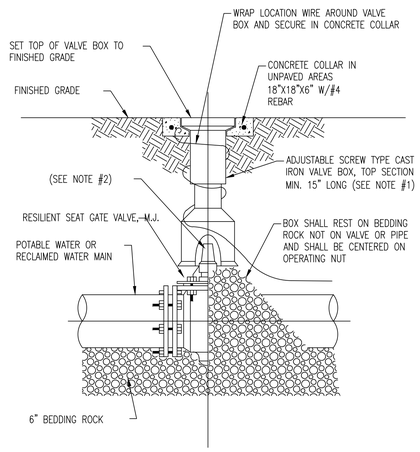
NOTE
BASED ON 150 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

*6" OR LESS

CONCRETE THRUST BLOCK DETAIL

4 C4.05

N.T.S.

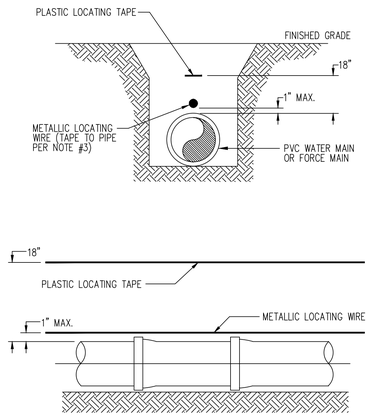


NOTES:
1. EXTENSIONS SHALL BE MANUFACTURED EXTENSIONS USED FOR VALVE BOX INSTALLATIONS.
2. THE ACTUATING NUT FOR DEEPER VALVE SHALL BE EXTENDED TO COME TO A 2' DEPTH BELOW FINISHED GRADE

GATE VALVE & BOX DETAIL

5 C4.05

N.T.S.

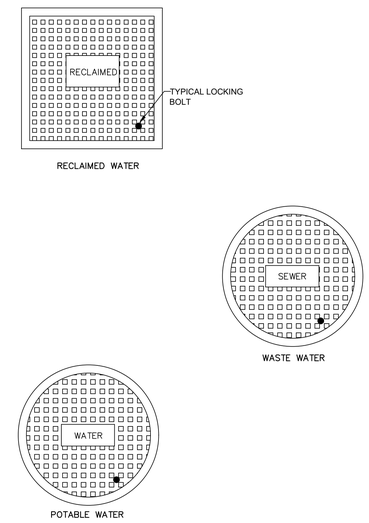


NOTES:
1. INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.
4. REFER TO SPECIFICATIONS FOR A DESCRIPTION OF LOCATING TAPE MATERIAL.

PVC PIPE LOCATING WIRE & TAPE DETAIL

6 C4.05

N.T.S.



NOTE:
1. LOCKING LIDS ARE REQUIRED ON ALL VALVE BOXES.

TYPICAL VALVE BOX COVER DETAIL

7 C4.05

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E	100% CDs	

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St. Thomas, US. Virgin Islands 00802

DETAILS

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No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

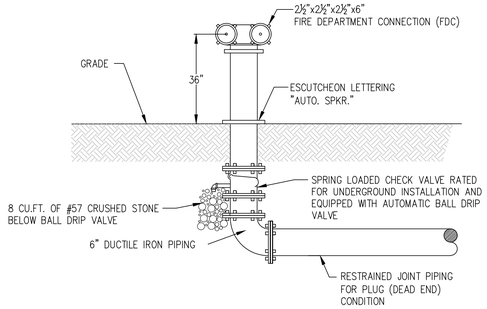
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470-23-49

OSR PROJECT NUMBER
010-9-101918

SHEET NUMBER
C4.05

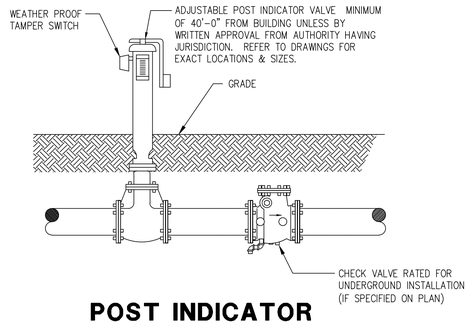
30% CONSTRUCTION DRAWINGS

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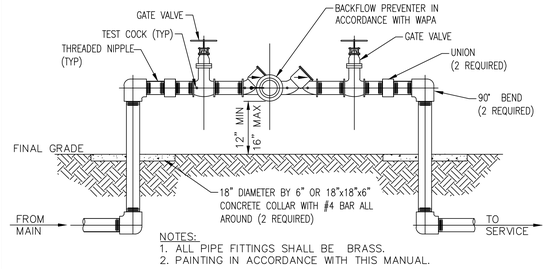
FIRE DEPARTMENT CONNECTION DETAIL

N.T.S. — 1 / C4.06



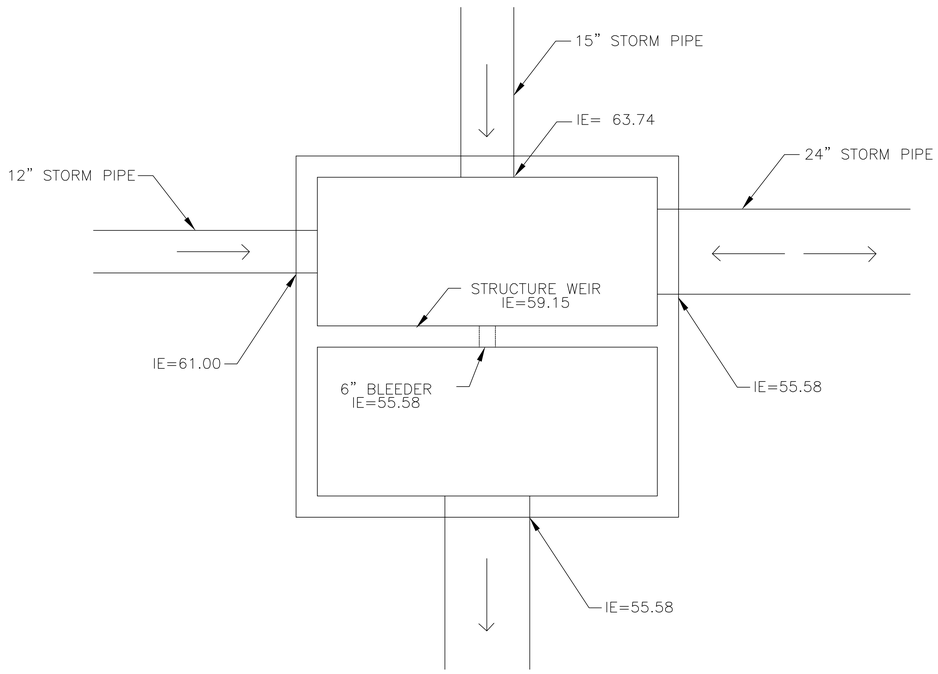
POST INDICATOR VALVE DETAIL

N.T.S. — 2 / C4.06



REDUCED PRESSURE BACKFLOW PREVENTER

N.T.S. — 3 / C4.06



CS-00 - CONTROL STRUCTURE DETAIL

N.T.S. — 4 / C4.06

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CHECKED BY: NDW
DATE: 04.03.2026
NOVUS JOB NUMBER: 470-23-49
CDR PROJECT NUMBER: 010-9-101918

SHEET NUMBER: C4.06

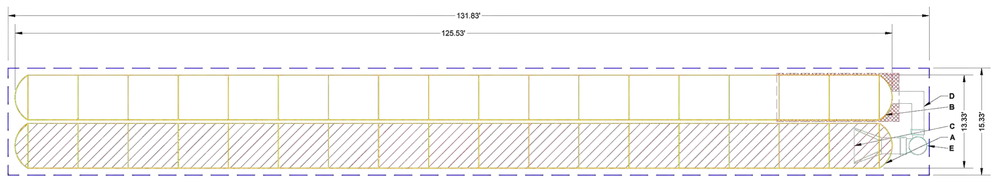
30% CONSTRUCTION DRAWINGS

NOT FOR CONSTRUCTION

PROPOSED LAYOUT: BASIN 1		PROPOSED ELEVATIONS: BASIN 1 GARAGE A	
GARAGE A		MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	53.50
34	STORMTECH MC-3500 CHAMBERS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	47.50
4	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	47.00
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	47.00
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	47.00
40	STONE VOID	TOP OF STONE:	46.50
6726	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF MC-3500 CHAMBER:	45.50
		18" x 18" TOP MANIFOLD INVERT:	43.42
		24" ISOLATOR ROW PLUS INVERT:	41.92
		BOTTOM OF MC-3500 CHAMBER:	41.75
2021	SYSTEM AREA (SF)	BOTTOM OF STONE:	41.00
294.3	SYSTEM PERIMETER (ft)		

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS		
PREFABRICATED END CAP	B	18" TOP PRE-CORED END CAP, PART#: MC3500IEPP18TC / TYP OF ALL 18" TOP CONNECTIONS		
FLAMP	C	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP		
MANIFOLD	D	18" x 18" TOP MANIFOLD, ADS N-12	20.03"	
NYLOPLAST (INLET W/ ISO PLUS ROW)	E	30" DIAMETER (24.00" SUMP MIN)		5.5 CFS IN



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES

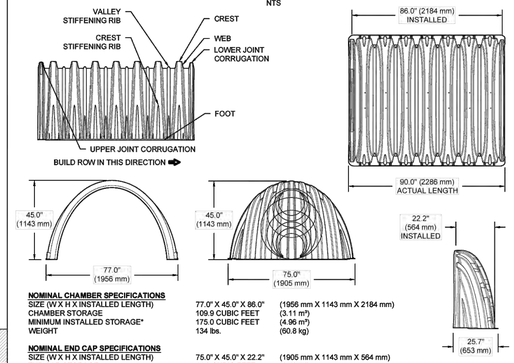
1. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
2. **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

SPACE INTENTIONALLY LEFT BLANK

SPACE INTENTIONALLY LEFT BLANK

MC-3500 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

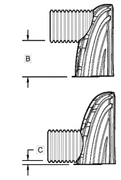
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.96" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-3500 TECHNICAL SPECIFICATION

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

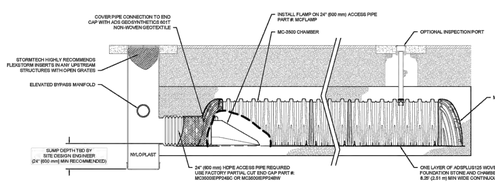
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



MC-3500 ISOLATOR ROW PLUS DETAIL

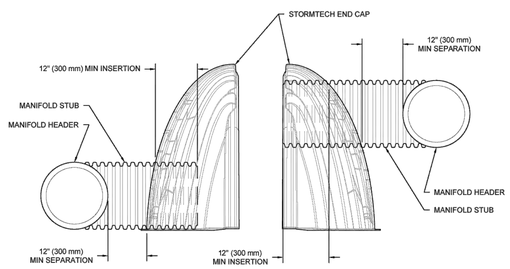
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3 MC-3500 ISOLATOR ROW PLUS DETAIL

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MC-SERIES END CAP INSERTION DETAIL

NTS



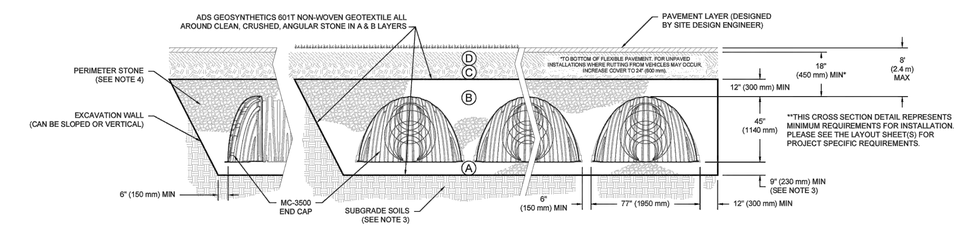
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

4 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/% . THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

DRAWN: LP | DATE: 04/01/2026
CHECKED: N/A | PROJECT #:
REV: | NOT TO SCALE

USVI

ST. THOMAS, FL, USA

StormTech® Chamber System

WWW.ADSPIPE.COM

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/STORMTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD ("EOR") OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 1 OF 1

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN COMPLEX
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

NOVUS JOB NUMBER: 470-23-49

CDR PROJECT NUMBER: 010-9-101918

SHEET NUMBER: C4.07

30% CONSTRUCTION DRAWINGS

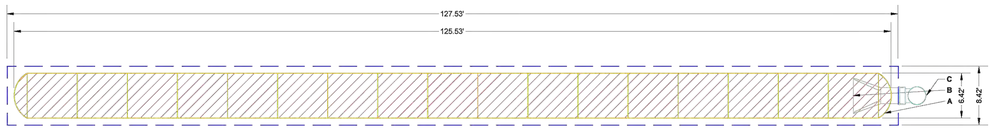
NOT FOR CONSTRUCTION

ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF SPRINGLINE ARCHITECTS L.L.C. THE CONCEPTS, IDEAS, DESIGNS AND DETAILS AS SHOWN ON THE DOCUMENTS WERE CREATED, DEVELOPED, AND PRESENTED FOR USE ON THIS SPECIFIC PROJECT AND SHALL NOT BE REUSED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF SPRINGLINE ARCHITECTS L.L.C. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES FOR INFORMATION AND REFERENCE PURPOSES ONLY.

PROPOSED LAYOUT: BASIN 1		PROPOSED ELEVATIONS: BASIN 1 GARAGE B	
GARAGE B		MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	53.50
17	STORMTECH MC-3500 CHAMBERS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	47.50
2	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	47.00
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	47.00
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	47.00
40	STONE VOID	TOP OF STONE:	46.50
3501	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF MC-3500 CHAMBER:	45.50
		24" ISOLATOR ROW PLUS INVERT:	41.92
		BOTTOM OF MC-3500 CHAMBER:	41.75
		BOTTOM OF STONE:	41.00
1073	SYSTEM AREA (SF)		
271.9	SYSTEM PERIMETER (ft)		

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS		
FLAMP	B	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP		
NYLOPLAST (INLET W/ ISO PLUS ROW)	C	30" DIAMETER (24.00" SUMP MIN)		



ISOLATOR ROW PLUS (SEE DETAIL)

NO WOVEN GEOTEXTILE

BED LIMITS

NOTES

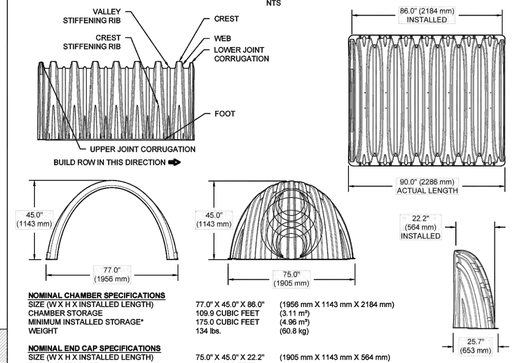
1. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
2. **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

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MC-3500 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

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  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
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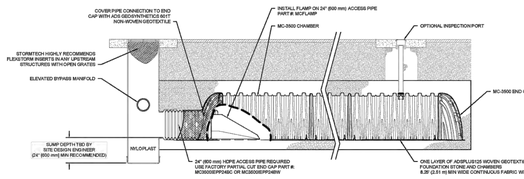
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MC-3500 ISOLATOR ROW PLUS DETAIL

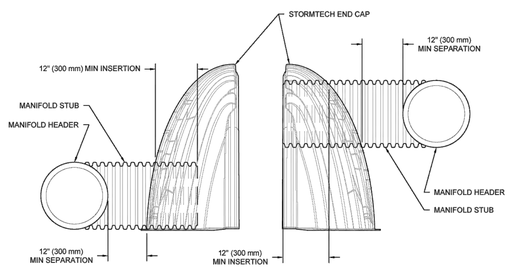
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3 MC-3500 ISOLATOR ROW PLUS DETAIL

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MC-SERIES END CAP INSERTION DETAIL

NTS



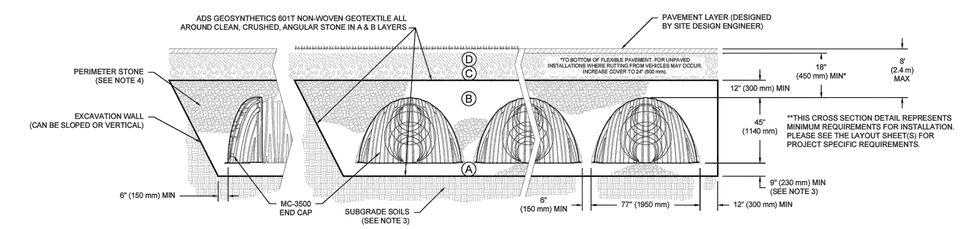
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A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/% . THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

DRAWN: LP | DATE: 04/01/2026
CHECKED: N/A | PROJECT #:
REV: | NOT TO SCALE

USVI

ST. THOMAS, FL, USA

StormTech® Chamber System

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SHEET 1 OF 1

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN COMPLEX
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

NOVUS JOB NUMBER: 470-23-49

CDR PROJECT NUMBER: 010-9-101918

SHEET NUMBER: C4.08

30% CONSTRUCTION DRAWINGS

NOT FOR CONSTRUCTION

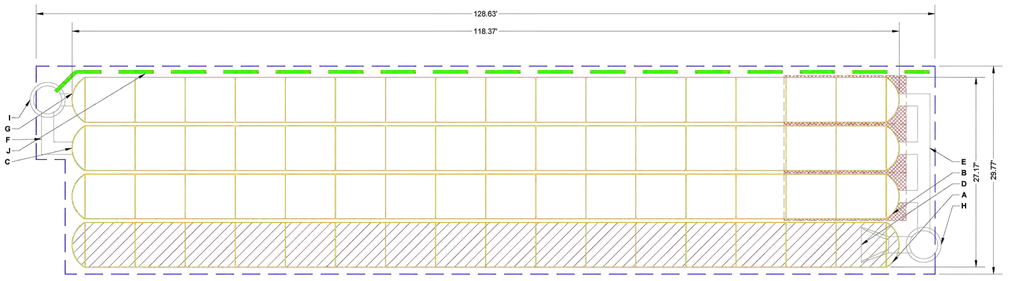
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PROPOSED LAYOUT: BASIN 2 NORTH		
64	STORMTECH MC-3500 CHAMBERS	
8	STORMTECH MC-3500 END CAPS	
12	STONE ABOVE (in)	
9	STONE BELOW (in)	
40	STONE VOID	
12568	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	
3761	SYSTEM AREA (SF)	
316.8	SYSTEM PERIMETER (ft)	

PROPOSED ELEVATIONS: BASIN 2 NORTH		
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	68.00	
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	62.00	
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	61.50	
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	61.50	
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	61.25	
TOP OF STONE:	61.00	
TOP OF MC-3500 CHAMBER:	60.50	
18" x 18" TOP MANIFOLD INVERT:	57.93	
24" ISOLATOR ROW PLUS INVERT:	56.42	
18" x 18" BOTTOM MANIFOLD INVERT:	56.40	
18" BOTTOM CONNECTION INVERT:	56.40	
BOTTOM OF MC-3500 CHAMBER:	56.25	
UNDERDRAIN INVERT:	55.50	
BOTTOM OF STONE:	55.50	

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS		
PREFABRICATED END CAP	B	18" TOP PRE-CORED END CAP, PART#: MC3500IEPP18TC / TYP OF ALL 18" TOP CONNECTIONS		
PREFABRICATED END CAP	C	18" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP18BC / TYP OF ALL 18" BOTTOM CONNECTIONS		
	D	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP		
MANIFOLD	E	18" x 18" TOP MANIFOLD, ADS N-12	20.03"	
MANIFOLD	F	18" x 18" BOTTOM MANIFOLD, ADS N-12	1.77"	
PIPE CONNECTION	G	18" BOTTOM CONNECTION	1.77"	
CONCRETE STRUCTURE	H	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		16.2 CFS IN
CONCRETE STRUCTURE	I	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		8.0 CFS OUT
UNDERDRAIN	J	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

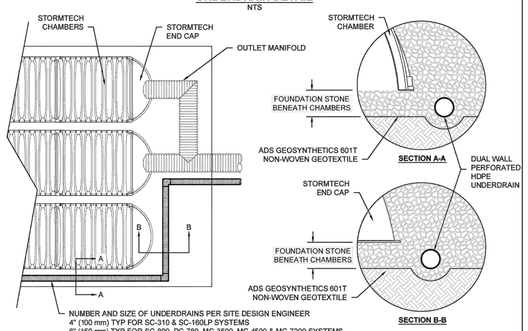
BED LIMITS

NOTES

1. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
2. **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

UNDERDRAIN DETAIL

NTS

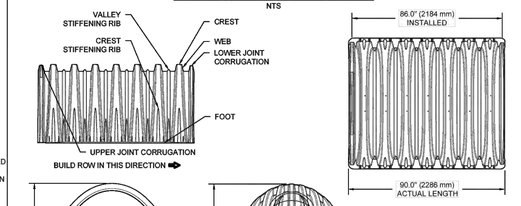


4 UNDERDRAIN DETAIL

SPACE INTENTIONALLY LEFT BLANK

MC-3500 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

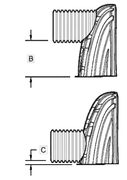
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.96" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-3500 TECHNICAL SPECIFICATION

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

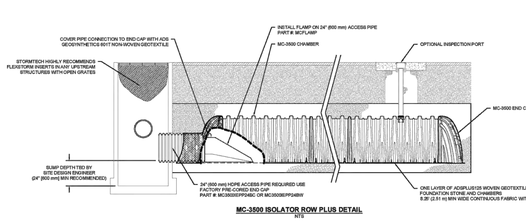
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



MC-3500 ISOLATOR ROW PLUS DETAIL

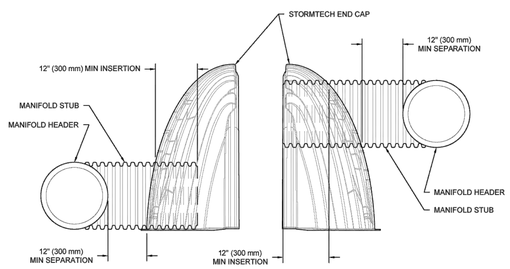
NTS

3 MC-3500 ISOLATOR ROW PLUS DETAIL

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MC-SERIES END CAP INSERTION DETAIL

NTS



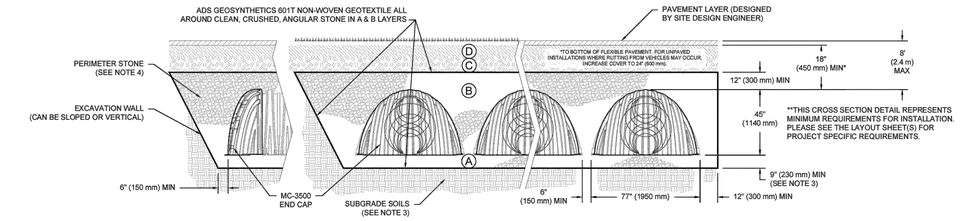
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

5 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

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3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
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5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



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   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/% . THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

USVI

ST. THOMAS, FL, USA

DRAWN: LP | DATE: 04/01/2026
CHECKED: N/A | PROJECT #:
REV: | NOT TO SCALE

StormTech® Chamber System

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SHEET 1 OF 1

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: CT

CHECKED BY: NDW

DATE: 04.03.2026

NOVUS JOB NUMBER: 470-23-49

CDR PROJECT NUMBER: 010-9-101918

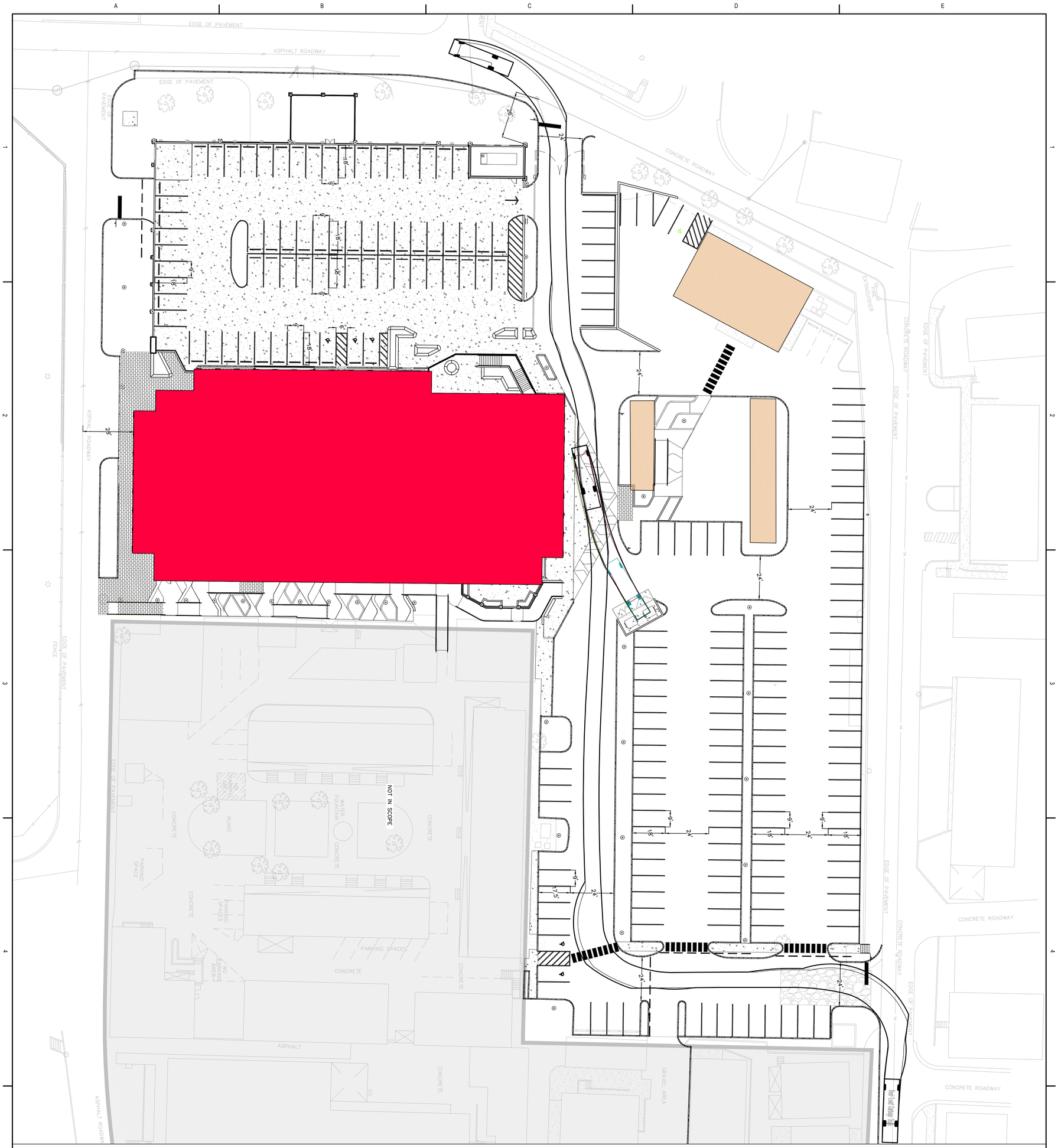
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1 Inch = 20 Ft. on 42"x 30" Sheet
This plan may have been reduced in size. Verify before scaling dimensions

20 0 10 20 40

NORTH

KNUD HANSEN COMPLEX

1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

FIRE TRUCK ACCESS PLAN

SUBMISSIONS		
Ref	Description	Date
A	Schematic	
B	30% CDs	04/09/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

REVISIONS		
No.	Description	Date

DRAWN BY: CT
CHECKED BY: NDW
DATE: 04.03.2026
PROJECT NUMBER: 470-23-49
CONTRACT NUMBER: 010-9-101918
SHEET NUMBER: EXH-1

IN PROGRESS DOCUMENTS FOR INTERIM REVIEW ONLY. NOT FOR REGULATORY APPROVAL, PERMIT, OR CONSTRUCTION.

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30% CONSTRUCTION DRAWINGS

NOT FOR CONSTRUCTION

30% CONSTRUCTION DRAWINGS

NOT FOR CONSTRUCTION

KNUD HANSEN COMPLEX

1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

GARBAGE TRUCK ACCESS PLAN

IMPROGRESS DOCUMENTS
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PERMIT, OR CONSTRUCTION

SUBMISSIONS:		
Ref	Description	Date
A	Schematic	04/08/2026
B	30% CDs	
C	60% CDs	
D	90% CDs	
E	100% CDs	

REVISIONS:		
No.	Description	Date

DRAWN BY: CT
CHECKED BY: NDW
DATE: 04.03.2026

NOVUS JOB NUMBER: 470-23-49
GSD PROJECT NUMBER: 010-9-101918

SHEET NUMBER: EXH-2

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Rear-Load Garbage Truck
Overall Length 35.000ft
Overall Width 8.375ft
Overall Body Height 10.546ft
Min Body Ground Clearance 1.000ft
Track Width 8.375ft
Lock to Lock time 6.000 sec
Curb to Curb Turning Radius 29.300ft

1 Inch = 20 Ft on 42"x 30" Sheet
The Width may vary slightly
In size. Verify before scaling dimensions

NORTH

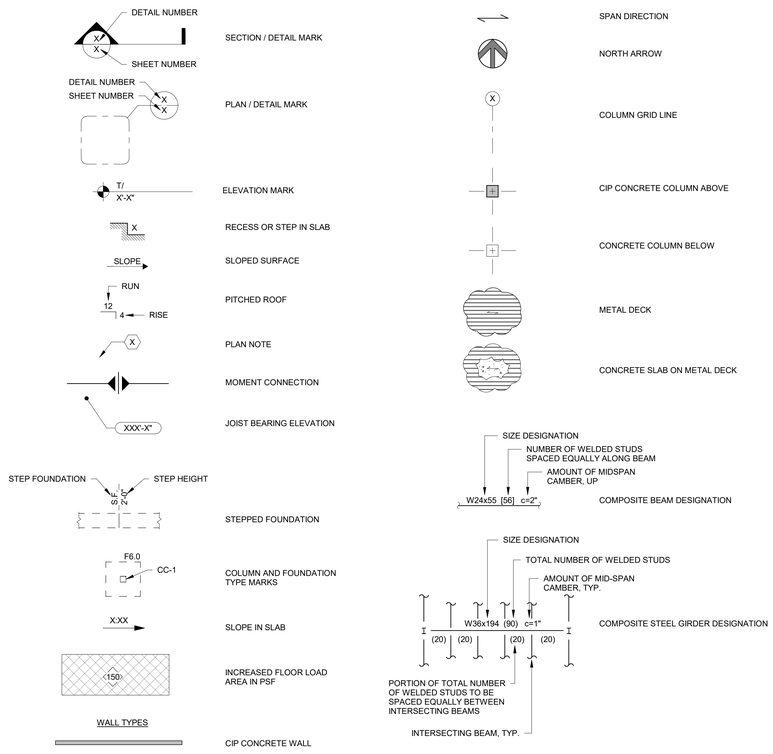
NOT IN SCOPE

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STRUCTURAL ABBREVIATIONS

ABBREV	ABBREVIATION
ACI	AMERICAN CONCRETE INSTITUTE
ADD	ADDITIVE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE/ALTERNATIVE
ALUM	ALUMINUM
ARCH	ARCHITECTURE/ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BCX	BOTTOM CHORD EXTENSION
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE/BEARING PLATE
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL
CB	CONCRETE BEAM
CC	CONCRETE COLUMN
CF	CUBIC FEET (FOOT)
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR/CLEARANCE
CM	CONCRETE MASONRY
CMU	CONCRETE MASONRY UNIT
CO	COMPANY
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONN	CONNECTION
CONST	CONSTRUCTION
COORD	COORDINATE
CSJ	CONSTRUCTION JOINT
CTR	CENTER
CTRD	CENTERED
CY	CUBIC YARD
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA	EACH
EE	EACH END
EF	EACH FACE
EHPA	EMERGENCY HURRICANE PROTECTION AREA
EJ	EXPANSION JOINT
ELEC	ELECTRIC/ELECTRICAL
EL, ELEV	ELEVATION
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EQ SP	EQUAL SPACED
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FOUNDATION
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH
FIN GR	FINISH GRADE
FLR	FLOOR
FS	FAR SIDE
FT	FEET/FOOT
FTG	FOOTING
GA	GAGE/GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GRID LINE
GS	GALVANIZED STEEL
HD	HOT DIPPED
HDG	HOT DIPPED GALVANIZED
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN.	INCH
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP (1000 LB)
KLF	KIPS PER LINEAL FOOT
KSI	KIPS PER SQUARE INCH
KWY	KEYWAY
LB	POUND
LGTH	LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MATL	MATERIAL
MAX	MAXIMUM
MB	MASONRY BEAM
MC	MISCELLANEOUS CHANNEL/MASONRY COLUMN
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURE/MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPH	MILES PER HOUR
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO.	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTERS
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PC	PRECAST CONCRETE/PILE CAP
PAF	POWDER ACTUATED FASTENER
PAR	PARALLEL
PCB	PRECAST CONCRETE BEAM
PCC	PRECAST CONCRETE COLUMN
PCF	POUNDS PER CUBIC FEET
PEMB	PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
P.J.	PANEL JOINT CENTERLINE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLMG	PLUMBING
PLY	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED/POST TENSIONED
R/W	REINFORCED WITH
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
RTU	ROOF TOP UNIT
SB	SOFFIT BEAM
SCHED	SCHEDULE
S.F.	SQUARE FEET
SF	STRIP FOUNDATION
SIM	SIMILAR
SPC	SPACE/SPACES
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T/	TOP OF
TB	TIE BEAM
T&B	TOP AND BOTTOM
TCX	TOP CHORD EXTENSION
TDS	TURN DOWN SLAB
TE	THICKENED EDGE
TEMP	TEMPERATURE
TENS	TENSION
THD	THREAD/THREADED
THK	THICK
TOL	TOLERANCE
TRANS	TRANSVERSE
TS	TUBE STEEL
T.S.	THICKENED SLAB
TWF	THICKENED WALL FOUNDATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WIDE FLANGE SECTION
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WALL FOOTING
WP	WATERPROOF
W.P.	WORKING POINT
WS	WELDED STUD
WT	WEIGHT/STRUCTURAL TEE SECTION
WWF	WELDED WIRE FABRIC
@	AT DESIGNATION
#	POUNDS / REBAR SIZE NUMBER
+/-	PLUS OR MINUS
L	ANGLE
C.L.	CENTER LINE
&	AND
Sx	SECTION MODULUS
Ix	MOMENT OF INERTIA

STRUCTURAL SYMBOLS AND LEGEND



NOTE: SYMBOLS AND LEGEND SHOWN ARE GENERIC AND DO NOT NECESSARILY INDICATE ACTUAL OCCURRENCES IN THESE DRAWINGS.

STRUCTURAL SHEET INDEX

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S003	GENERAL NOTES
S004	GENERAL NOTES
S005	SPECIAL INSPECTIONS TABLES
S006	SPECIAL INSPECTIONS TABLES
S007	COMPONENTS & CLADDING WIND LOAD DIAGRAM
S101	OVERALL FOUNDATION PLAN
S102	ENLARGED FOUNDATION AND SLAB PLAN
S103	ENLARGED MAIN FLOOR FRAMING PLAN
S104	ENLARGED SECOND FLOOR FRAMING PLAN
S105	ENLARGED THIRD FLOOR FRAMING PLAN
S106	ENLARGED ROOF FRAMING PLAN
S201	PARKING STRUCTURE FOUNDATION PLAN
S202	PARKING STRUCTURE FRAMING PLAN
S203	PARKING STRUCTURE FRAMING PLAN - ALTERNATE DEDUCT #1
S301	STRUCTURAL SECTIONS
S302	STRUCTURAL SECTIONS
S501	STRUCTURAL DETAILS
S502	STRUCTURAL DETAILS
S511	STRUCTURAL DETAILS
S512	STRUCTURAL DETAILS
S513	STRUCTURAL DETAILS
S521	STRUCTURAL DETAILS

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2020
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

ABBREVIATIONS AND SYMBOLS

REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S001

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

010000 GENERAL NOTES

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.
4. DO NOT SCALE DRAWINGS.
5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS.
6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.
10. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TLC ENGINEERING SOLUTIONS, INC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
13. IN THE PROFESSIONAL OPINION OF TLC ENGINEERING SOLUTIONS, INC. THE STRUCTURAL CONTRACT DOCUMENTS FOR THIS PROJECT HAVE BEEN PREPARED IN ACCORDANCE WITH THE DESIGN CRITERIA AS SET FORTH IN THE 2024 INTERNATIONAL BUILDING CODE (IBC).
14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.
15. FINISH FLOOR ELEVATION (FIRST FLOOR) OF *** 0'-0" (100'-0") *** IS USED AS A REFERENCE ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.
16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
17. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

010001 BUILDING MOVEMENTS

THE BUILDING MOVEMENT SPECIFIED HEREIN IS ANTICIPATED TO OCCUR AND SHOULD BE CONSIDERED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK.

1. SPANDREL BEAM DEFLECTIONS. THE FOLLOWING PROVISION SHOULD BE MADE FOR SUPERIMPOSED LOAD DEFLECTION OF ONE FLOOR RELATIVE TO AN ADJACENT FLOOR IN THE DESIGN, FABRICATION, AND ERECTION OF THE BUILDING CLADDING.
   A. TYPICAL SPANDREL BEAM - 3/8" SUPERIMPOSED LOAD DEFLECTION IS DEFINED AS ALL DEFLECTION ANTICIPATED TO OCCUR AFTER THE CLADDING HAS BEEN ERECTED. THE RELATIVE DEFLECTION ABOVE DOES NOT INCLUDE THE FLOOR DEFLECTION CAUSED BY THE WEIGHT OF THE CLADDING ITSELF OR THE DEAD LOAD DEFLECTION OF THE FLOOR FRAMING ITSELF, NOR DOES IT INCLUDE ANY ALLOWANCE FOR FABRICATION OR ERECTION TOLERANCES.
2. THE FOLLOWING PROVISION FOR SUPERIMPOSED LOAD DEFLECTIONS SHALL BE MADE IN THE DESIGN, FABRICATION, AND INSTALLATION OF ALL PARTITIONS, GLASS WALLS, AND OTHER ELEMENTS SUPPORTED BY AND ATTACHED TO THE STRUCTURE.
   A. TYPICAL FLOOR MEMBERS - SPAN/360 BUT NOT LESS THAN 3/8"
   B. TYPICAL ROOF MEMBERS - SPAN/360 BUT NOT LESS THAN 3/8"
3. STORY DRIFT: LATERAL FRAME DEFLECTION OF H/300 IN THE PLANE OF THE WALL OF ONE FLOOR RELATIVE TO AN ADJACENT FLOOR SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN, FABRICATION AND INSTALLATION OF THE BUILDING CLADDING.

010003 DESIGN LOADS

1. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2024 INTERNATIONAL BUILDING CODE AND ASCE 7-22.
2. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:
   A. DEAD LOADS:

ROOF STRUCTURE	15 PSF
M/E/P LOADS	5 PSF
CEILINGS	5 PSF
COLLATERAL LOADS	10 PSF
PHOTOVOLTAIC PANEL SYSTEMS	XX PSF

   B. LIVE LOADS:

ROOF	20 PSF
ROOF (ASSEMBLY)	100 PSF (UNREDUCIBLE)
FLOOR (OFFICE)	50 PSF
FLOOR (LIGHT STORAGE)	125 PSF (UNREDUCIBLE)
FLOOR (HEAVY STORAGE)	250 PSF (UNREDUCIBLE)
FLOOR (KITCHEN)	150 PSF (UNREDUCIBLE)
FLOOR (FILES)	150 PSF (UNREDUCIBLE)
FLOOR (LABORATORY)	100 PSF
FLOOR (RETAIL - FIRST FLOOR)	100 PSF
FLOOR (RETAIL - UPPER FLOOR)	75 PSF
FLOOR (RETAIL - WHOLESALE)	125 PSF (UNREDUCIBLE)
FLOOR (MECH ROOM)	150 PSF (UNREDUCIBLE)
FLOOR (ELECTRICAL ROOM)	200 PSF (UNREDUCIBLE)
FLOOR (HOSPITAL GR./LAB)	60 PSF
FLOOR (HOSPITAL ROOMS/WARDS)	40 PSF
FLOOR (ELEVATOR MACHINE ROOM)	150 PSF(UNREDUCIBLE)
BALCONIES (EXTERIOR)	(1.5*OCCUPANCY SERVED")
	100 PSF MAX
STAIRS AND EXITS	100 PSF
PARKING GARAGE	40 PSF (UNREDUCIBLE)
GUARDRAILS/HANDRAILS	50 PLF (UNIFORM)
	200 LBS (CONCENTRATED)

   C. WIND LOADS: PER ASCE 7
   SEE SHEET **S007** FOR COMPONENTS AND CLADDING PRESSURES.

ULTIMATE DESIGN WIND SPEED, Vult	180 MPH (3 SEC. GUST)
NOMINAL DESIGN WIND SPEED, Vasd	139 MPH (3 SEC. GUST)
RISK CATEGORY	IV
EXPOSURE	D

   NOTE: TORNADO LOADS NOT APPLICABLE

   PROJECT IS LOCATED IN A WIND-BORNE DEBRIS REGION. GLAZED OPENINGS IN BUILDINGS SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT-RESISTANT STANDARD OR ASTM E1996 AND ASTM E1886.
   1. GLAZED OPENINGS LOCATED WITHIN 30 FEET OF GRADE SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E1996.
   2. GLAZED OPENINGS LOCATED MORE THAN 30 FEET ABOVE GRADE SHALL MEET THE PROVISIONS OF THE SMALL MISSILE TEST OF ASTM E1996.

   D. SEISMIC LOADS: PER ASCE 7

MAPPED SPECTRAL RESPONSE ACCELERATION	
SHORT DURATION (Ss)	1.23
1.0 SECOND DURATION (S1)	0.38
DESIGN SPECTRAL RESPONSE ACCELERATION	
SHORT DURATION (SDs)	1.0
1.0 SECOND DURATION (SD1)	0.66
SITE CLASSIFICATION	C
SEISMIC RISK CATEGORY	IV
SEISMIC IMPORTANCE FACTOR (Ie)	1.50
SEISMIC DESIGN CATEGORY	CD
SEISMIC RESPONSE COEFFICIENT (Cs)	0.3
RESPONSE MODIFICATION COEFFICIENT (R)	5.0
BASE SHEAR (V)	6,037 KIPS (OFFICE)
	1,116 KIPS (GARAGE)
LATERAL LOAD RESISTING SYSTEM TYPE	SPECIAL REINFORCED CONCRETE SHEAR WALLS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

   E. RAIN LOADS: PER ASCE 7-22

15-MINUTE DESIGN RAINFALL INTENSITY (i)	6.65 IN/HR

   F. FLOOD LOADS: PER ASCE 7-22

012300 ALTERNATES

1. x

013100 REQUEST FOR INTERPRETATION

1. RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT MANNER AS TO AVOID DELAYS IN CONTRACTORS WORK
2. RFI SHALL BE SUBMITTED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SHALL BE FORWARDED TO THE ENGINEER VIA THE ARCHITECT OR DIRECTLY TO THE ENGINEER BY THE CONTRACTOR WHEN APPROVED BY THE ARCHITECT.
3. ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW AND RETURN RFI'S. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFI'S WITHIN A REASONABLE TIME FRAME.
4. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, OR COST IMPACTS OR ADJUSTMENTS. IF CONTRACTOR REQUESTS ANY ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN WRITING BY THE CONSTRUCTION ADMINISTRATOR.

013301 SHOP DRAWING REVIEW

1. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
3. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
4. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEERS' CURRENT HOURLY RATES.

013302 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS

1. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER:
   A. ARCHITECTURAL PRECAST CONCRETE SYSTEMS
   B. TEMPORARY WALL BRACING
   C. FORMWORK AND TEMPORARY SHORING
   D. PRECAST CONCRETE STAIRS
   E. RAILINGS
2. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND DRAWINGS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. SHOP DRAWINGS AND CALCULATIONS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
4. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR THEIR RECORDS.
5. DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING, DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
6. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
7. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
   A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
   B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
   C. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.
   D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.
8. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND WILL BE RETURNED.

013303 SUBMITTALS

1. ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
2. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
   - ITEMS MARKED (D) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD ONLY.

   A. STRUCTURAL STEEL
   B. PRECAST CONCRETE STAIRS (D)
   C. POST-TENSIONING
   D. TEMPORARY WALL BRACING (D)
   E. FORMWORK AND TEMPORARY SHORING (D)
   F. METAL ROOF DECK
   G. ARCHITECTURAL PRECAST CONCRETE SYSTEMS (D)
   H. RAILINGS (D)
   I. REINFORCING STEEL
   J. COMPOSITE METAL DECK
   K. CONCRETE MIX DESIGNS
   L. ELEVATORS (#)
   M. MECHANICAL ANCHORS (#)
   N. CHEMICAL (ADHESIVE) ANCHORS (#)
3. MANUFACTURER'S LITERATURE. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

014001 SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED BY ONE OR MORE AGENCIES APPROVED BY THE EOR AND BUILDING OFFICIAL.
2. IN ACCORDANCE WITH CHAPTER 17 OF THE 2024 INTERNATIONAL BUILDING CODE, SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING MATERIALS, SYSTEMS, COMPONENTS, AND/OR WORK:
3. FREQUENCY AND SCOPE OF SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND CHAPTER 17 OF THE 2024 INTERNATIONAL BUILDING CODE.
4. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, EOR, AND OWNER FOR RECORD.
   A. STRUCTURAL STEEL
   B. WELDING/BOLTING
   C. METAL DECK
   D. CAST-IN-PLACE CONCRETE
   E. REINFORCING STEEL
   F. POST INSTALLED ANCHORS
   G. FOUNDATIONS - SOIL
   H. FOUNDATIONS - CAST DEEP ELEMENTS
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL SPECIAL INSPECTIONS.
6. THE CONTRACTOR SHALL BEAR THE COST OF CORRECTING OR REPLACING ALL MATERIALS, SYSTEMS, COMPONENTS, AND/OR WORK THAT DO NOT MEET THE REQUIREMENTS OF THE SPECIAL INSPECTOR.

024117 EXISTING STRUCTURE

1. INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS THAT WERE PREPARED FOR:

PREPARED BY:	XXX
ENTITLED:	XXX
DATED:	XXX

2. WORK SHOWN ON THESE DRAWINGS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

032000 REINFORCING STEEL

1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. PROVIDE CONCRETE COVER OVER PRIMARY REINFORCEMENT, TIES, AND STIRRUPS, AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION AND CONDITION	MINIMUM COVER
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.	ALL BARS 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER	#6 OR GREATER 2"
	#5 OR SMALLER 1.5"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, AND JOISTS	#11 OR SMALLER 3/4"
BEAMS AND COLUMNS	ALL BARS 1.5"

3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.
5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS.
6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.
7. LENGTH OF LAP SPLICES AND BAR EMBEDMENT SHALL BE AS SCHEDULED IN THE TYPICAL DETAIL.
8. AT CHANGES IN DIRECTION OF CONCRETE WALLS AND TIE BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.
9. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE CRITERIA.
10. AT CANTILEVER SLABS AND BEAMS, REINFORCING BARS IN DIRECTION OF CANTILEVER SHALL BE DETAILED TO FULLY DEVELOP THE BAR STRENGTH INTO THE SUPPORTING STRUCTURE, EITHER BY PROVIDING FULL CLASS B LAP SPLICE OR STANDARD ACI HOOKS EMBEDDED DEEP ENOUGH BEYOND SUPPORT TO DEVELOP STRENGTH OF BAR.

032003 WELDABLE REINFORCING STEEL

1. ALL REINFORCING STEEL THAT WILL BE WELDED SHALL MEET THE REQUIREMENTS OF ASTM A706 GRADE 60 DEFORMED BARS.

032004 WELDED WIRE FABRIC

1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.
3. USE OF FLAT MANUFACTURED SHEETS IS REQUIRED (NO ROLLS).
4. INSTALL WWF ON BRICKS OR BOLSTERS AT MID DEPTH OF SLAB U.N.O.; SPACING OF SUPPORTS SHALL BE ADEQUATE TO PREVENT SHIFTING OF WWF DURING CONSTRUCTION, BUT SHALL NOT EXCEED 24" O.C.

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2020
C	60% CDs	
D	90% CDs	
E	100% CDs	

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GENERAL NOTES

REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S002

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

032101 WEATHER RESISTANCE IN HIGH VELOCITY HURRICANE ZONES

1. WHEREVER CONCRETE BALCONIES (OR OTHER FLAT SURFACES) OF THE REINFORCED OR POST-TENSIONED CONCRETE SLABS ARE TO REMAIN EXPOSED TO THE WEATHER THROUGHOUT THE LIFE OF THE BUILDING, THE TOP SURFACE OF THE CONCRETE SHALL AS A MINIMUM BE TREATED WITH A CLEAR NONFLAMMABLE PENETRATING SEALER OF THE ALKYL-ALKOXY SILANE CLASSIFICATION, SUCH AS SONNEBORN PENETRATING SEALER 20, HYDROZO ENVIROSEAL 20, OR OTHER ENGINEER APPROVED WEATHER RESISTANT SYSTEM.
2. APPLICATION AND SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. MINIMUM CONCRETE COVERAGE OF TOP REINFORCING THAT IS NOT EPOXY COATED SHALL BE 1".
4. THE SLAB SURFACE SHALL BE SLOPED A MINIMUM OF 1 IN 12.
5. FOR PROJECTS LOCATED AT THE SHORELINE, ALL MILD REINFORCEMENT SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 767.

032200 FORMWORK AND SHORING (CONCRETE SLABS AND BEAMS)

1. NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28-DAY DESIGN STRENGTH. A MINIMUM OF 3 STORIES OF SHORING AND/OR RESHORING SHALL BE USED WHICH SHALL CONSIST OF ONE COMPLETE SET OF VERTICAL SHORES AND TWO SETS OF VERTICAL SHORES THAT COMPRISE AT LEAST 50% OF A COMPLETE SET.
2. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.
3. DRAWINGS FOR SHORING AND RESHORING SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER. SHORING ENGINEER OR REPRESENTATIVE MUST VISIT CONSTRUCTION SITE TO CONFIRM THAT SHORING HAS BEEN INSTALLED PER REQUIREMENTS SHOWN ON SUBMITTED DRAWINGS.

032201 FORMWORK AND SHORING

1. NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28-DAY DESIGN STRENGTH.
2. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.

032202 CONSTRUCTION JOINTS

1. ANY DEVIATION OR ADDITION OF CONSTRUCTION JOINTS FROM THAT SHOWN ON THE DRAWINGS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER OF RECORD.
2. ALTERNATE OR ADDED CONSTRUCTION JOINT LOCATIONS ARE ACCEPTABLE ONLY AS A CHANGE ORDER, WHICH WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESIGN OF THE STRUCTURE, SHORING, ETC.

032203 PLUMBING SLEEVES

1. MINIMUM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER.
2. PRIOR TO CONSTRUCTION ALL SLEEVE LOCATIONS AND SIZES NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER.
3. PLACE TWO #3 STIRRUPS AT 3" O.C. EACH SIDE OF SLEEVE PENETRATIONS IN BEAMS.

033000 CONCRETE

1. SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

CONCRETE STRUCTURE	COMPRESSIVE STRENGTH	SLUMP	MAXIMUM AGGREGATE	MAXIMUM W/C RATIO TYPE
SLABS-ON-GRADE	4000 PSI	4-6"	1"	0.50
SLABS-ON-GRADE	3000 PSI	4-6"	3/4"	0.48
ELEVATED SLABS	4000 PSI	4-6"	3/4"	0.48
CONCRETE ON METAL DECK	3000 PSI	4-6"	3/4"	0.50
COLUMNS	4000 PSI	4-6"	3/8"	0.48
BALCONIES	5000 PSI	4-6"	3/4"	0.40

2. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.
5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
6. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-CLASS D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.
7. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
8. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.
9. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 6.3
10. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318
11. WATER/CEMENT RATIO FOR CONCRETE AT EXTERIOR BALCONIES SHALL NOT EXCEED 0.40 BY WEIGHT.
12. CONCRETE SLABS ON GRADE SHALL BE REINFORCED AS INDICATED ON PLAN..
13. CONCRETE SLABS ON COMPOSITE METAL DECK SHALL BE REINFORCED AS INDICATED ON PLAN.
14. WHEN TOTAL WIDTH OF PIPES OR DUCTS CAST INTO A SLAB EXCEED 12" IN A 24" WIDTH THEN THE CONTRACTOR SHALL ADD A LAYER OF #4 AT 12" ABOVE AND PERPENDICULAR TO THE DUCT/PIPE RUNS EXTENDING 12" BEYOND THE LAST DUCT/PIPE ON EACH SIDE.
15. WHEN ADHESIVES OR WATER VAPOR IMPERMEABLE FLOOR COVERINGS ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THROUGH APPROPRIATE TESTING THAT THE WATER CONTENT OF THE CONCRETE, AND VAPOR TRANSMISSION RATE THROUGH THE CONCRETE, IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION. THE MANUFACTURER OF THE ADHESIVE OR FLOOR COVERING SHALL REVIEW AND APPROVE THE RESULTS OF THE TESTING PRIOR TO INSTALLATION OF PRODUCTS.

033003 CONCRETE TESTING

1. AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
   A. ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE."
   B. ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED LAB CURED CYLINDER QUANTITIES AND TEST AGE AS FOLLOWS:
      (2) AT 7 DAYS
      (2) AT 28 DAYS

   ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28-DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.

033816 POST TENSIONED SLAB AND BEAMS

1. GRADE 270, 1/2" NOMINAL DIAMETER 7-WIRE STRAND CONFORMING TO ASTM A-416 SHALL BE USED IN TENDONS. STRAND SHALL BE CLEAN AND FREE OF CORROSION.
2. ANCHORAGES FOR UNBONDED PRESTRESSING TENDONS SHALL DEVELOP THE SPECIFIED STRENGTH OF THE TENDONS WITHOUT EXCEEDING THE ANTICIPATED SET.
3. PRESTRESSING STEEL SHALL BE PERMANENTLY PROTECTED AGAINST CORROSION BY A PROPERLY APPLIED COATING OF LITHIUM BASED TENDON GREASE WHICH IS IN ACCORDANCE WITH PTI RECOMMENDATIONS. THE COATING SHALL BE CHEMICALLY STABLE, AND BE NON-REACTIVE WITH CEMENT AND THE SHEATHING MATERIAL.
4. THE SHEATHING SHALL HAVE SUFFICIENT TENSILE STRENGTH AND WATER RESISTANCE TO RESIST NON-REPAIRABLE DAMAGE AND DETERIORATION DURING TRANSPORTATION, STORAGE, AND INSTALLATION. THE SHEATHING SHALL BE SEAMLESS, EXTRUDED AND BE CONTINUOUS OVER THE LENGTH OF THE TENDON TO BE UNBONDED. THE SHEATHING SHALL PREVENT THE INTRUSION OF CEMENT PASTE AND THE ESCAPE OF COATING MATERIAL.
5. POST TENSIONING CABLES SHALL HAVE AN ENCAPSULATED CORROSION PROTECTION SYSTEM WHICH IS IN ACCORDANCE WITH THE RECOMMENDATION OF PRESTRESSED CONCRETE INSTITUTE FOR CABLES USED IN A CORROSIVE ENVIRONMENT.
6. CONCRETE SHALL ATTAIN THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE CONCRETE NOTE. PRIOR TO STRESSING, THE CONCRETE IN THE SLABS AND BEAMS SHALL REACH A MINIMUM OF TWO-THIRDS OF THE MINIMUM 28-DAY STRENGTH OR THE MINIMUM REQUIRED BY THE POST TENSION SUPPLIER (WHICHEVER IS GREATER). TENSIONING OF THE CONCRETE SLAB SHALL COMMENCE WITHIN 24 HOURS OF ACHIEVING THE INDICATED STRENGTH. SLAB CONCRETE SHALL REMAIN SHORED UNTIL THE CONCRETE IS STRESSED.
7. TENDONS SHALL BE LOCATED IN ACCORDANCE WITH THE PROFILES SHOWN ON THE DRAWINGS. ADEQUATE CHAIRS AND SUPPORT BARS SHALL BE FURNISHED TO HOLD TENDONS IN THEIR CORRECT POSITION DURING THE PLACEMENT OF CONCRETE. TENDONS SHALL NOT VARY MORE THAN 1/8" FROM THE SPECIFIED POSITION. SLIGHT DEVIATIONS IN SPACING OF TENDONS WILL BE PERMITTED WHERE REQUIRED TO AVOID OPENINGS, INSERTS AND DOWELS. WHERE THERE IS CONFLICT BETWEEN TENDONS AND BONDED REINFORCING STEEL, THE TENDON LOCATION HAS PRIORITY.
8. A MINIMUM OF TWO TENDONS SHALL BE PLACED IN EACH DIRECTION DIRECTLY OVER COLUMNS.
9. AFTER THE TENDONS ARE IN THEIR FINAL POSITION AND PRIOR TO POURING CONCRETE USE CHALK TO MARK THE CABLE POSITIONS ON THE FORMWORK SUCH THAT THE MARKING WILL BE VISIBLE ON THE UNDERSIDE OF THE SLAB AFTER THE FORMWORK IS REMOVED.
10. INSERTS FOR SUSPENDED MECHANICAL AND ARCHITECTURAL WORK SHALL BE CAST IN PLACE. NO CUTTING, CHIPPING OR DRILLING INTO POST-TENSIONED SLABS OR BEAMS IS ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER OF RECORD. TENDONS SHALL NOT BE CUT OR DAMAGED. POWDER ACTUATED FASTENERS SHALL HAVE A MAXIMUM OF 3/4" EMBEDMENT.
11. SHOP DRAWINGS SHOWING DETAILS OF END ANCHORAGES, CONNECTIONS, BLOCK OUTS OF HOLES, INSERTS AND OTHER POST-TENSIONING DETAILS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION.
12. SUPPLIER SHALL DETERMINE CABLE LOSSES IN ACCORDANCE WITH ACI-318 AND SHALL PROVIDE A SUFFICIENT AMOUNT OF CABLE TO DEVELOP FINAL EFFECTIVE FORCES AS SHOWN ON DRAWINGS WITH PROPER CONSIDERATION OF LOSSES. CALCULATIONS SHALL BE SUBMITTED AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AS TO LOSS CALCULATIONS.
13. RECORDS SHALL BE PROVIDED BY THE INSPECTOR OF JACKING FORCES AND ELONGATIONS AND SUBMITTED PROMPTLY TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE PRIOR TO BURN OFF OF EXCESS TENDON.
14. STRESSING HARDWARE SHALL BE COATED BY THE CONTRACTOR WITH CORROSION PREVENTATIVE MATERIAL (ASPHALTIC PAINT OR SIMILAR) AFTER COMPLETION OF STRESSING OPERATION. ANCHOR BLOCK OUTS SHALL BE FILLED WITH A NON-SHRINK GROUT (APPROVED BY THE ENGINEER OF RECORD) AFTER CUT OFF BY CONTRACTOR.
15. CONTRACTOR SHALL COORDINATE THE DETAILING AND PLACING OF TENDONS AND MILD STEEL BETWEEN SUPPLIERS AS REQUIRED.
16. JOB SITE INSTRUCTION OF REINFORCING INSTALLATION PERSONNEL IN PLACING AND STRESSING OPERATIONS SHALL BE PROVIDED BY A QUALIFIED FIELD SUPERINTENDENT FROM THE STAFF OF THE POST-TENSIONING SUPPLIER. PLACING OF REINFORCING STEEL AND POST-TENSIONING SHALL BE DONE BY THE SAME FIRM. SUCH PLACING SUBCONTRACTOR SHALL HAVE LOCAL EXPERIENCE IN POST-TENSIONING WORK AND SHALL HAVE SUCCESSFULLY COMPLETED AT LEAST TWO OTHER SIMILAR STRUCTURES UNDER THE SAME FIRM NAME.
17. MATERIAL SHALL BE SUPPLIED ONLY BY FIRMS HAVING LOCAL REPRESENTATION, AND STAFFED WITH A STRUCTURAL ENGINEER HAVING A MINIMUM OF THREE YEARS DESIGN EXPERIENCE IN THE DESIGN AND CONSTRUCTION OF POST-TENSIONED STRUCTURES AND REGISTERED AS A PROFESSIONAL ENGINEER.
18. IN THE EVENT OF BROKEN TENDONS OR BLOW-OUTS, SUBMIT FOR APPROVAL TO THE STRUCTURAL ENGINEER DETAILED PROCEDURES FOR THE REMEDIAL WORK REQUIRED.

034106 PRECAST CONCRETE STAIRS

1. ENGINEERED PRECAST CONCRETE STAIR SYSTEM AND CONNECTIONS OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
2. THE CONFIGURATION OF THE PRECAST CONCRETE STAIR SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. PRECAST CONCRETE STAIR SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THESE DRAWINGS AND IN THE BUILDING CODE.
4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS.
5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE PRECAST CONCRETE STAIR SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.
6. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO FABRICATION.
7. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

036001 CHEMICAL (ADHESIVE) ANCHORS

1. SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT- HY200 V3, HIT RE500 V3, DEWALT PURE 110+, DEWALT AC200+, OR SIMPSON SET-3G ADHESIVE SYSTEM, OR ENGINEER APPROVED SUBSTITUTION.
2. EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE, DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE ALLOWED AS SUBSTITUTES. ICC-ES REPORTS FOR PROPOSED ANCHOR SUBSTITUTIONS MUST BE SUBMITTED TO EOR FOR REVIEW. EOR MAY REQUIRE ENGINEERED CALCULATIONS FOR REVIEW AND APPROVAL.
3. SUBSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING CONDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
4. INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT SPECIFIED ON DRAWINGS.
5. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318 D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
6. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE MADE AVAILABLE TO THE EOR AS REQUESTED.
7. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING EPOXY INTO THE HOLES IN ACCORDANCE WITH THE MANUFACTURERS MPII.
8. NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED AND HAS ACHIEVED IT'S SPECIFIED STRENGTH. CURE TIME SHALL BE PER MANUFACTURERS PUBLISHED VALUES FOR SPECIFIC PRODUCT BEING USED.
9. IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES NOT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.
10. ADHESIVE ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED, UNCRACKED, AND SEISMIC CONCRETE RECOGNITION.
11. ADHESIVE ANCHORS IN MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC70.
12. EXISTING REINFORCING IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE CUT UNLESS APPROVED BY THE EOR.
13. ADHESIVE ANCHORS IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE INSTALLED UNTIL CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS.
14. PROVIDE SPECIAL INSPECTION FOR ALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE CURRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).
15. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL (ACI 318 CHAPTER 17).

036002 MECHANICAL ANCHORS

1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS DEWALT SCREW-BOLT +, SIMPSON TITEN HD, OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS DEWALT POWER-STUD+SD1, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT TZ2).
2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE. ICC-ES REPORTS FOR PROPOSED ANCHOR SUBSTITUTES MUST BE SUBMITTED TO EOR FOR REVIEW. EOR MAY REQUEST ENGINEERED CALCULATIONS FOR REVIEW AND APPROVAL.
3. IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.
4. INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT SPECIFIED ON DRAWINGS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE EOR AS REQUESTED.
6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS OR POWERS TAPPER + INSTALLED IN CONCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH.
7. TAPCON SCREWS, OR DEWALT TAPPER +, MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U, POWERS CSI, OR APPROVED EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY).
8. MECHANICAL ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC 193 FOR CRACKED, UNCRACKED AND SEISMIC CONCRETE RECOGNITION.
9. MECHANICAL ANCHORS IN MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106.
10. POWER ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70.
11. EXISTING REINFORCING BARS IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT BE CUT UNLESS APPROVED BY THE EOR.
12. ANCHORS SHALL NOT BE INSTALLED IN CONCRETE AND/OR MASONRY CONSTRUCTION UNTIL THE CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS.
13. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL POST INSTALLED ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE CURRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).

042204 LINTELS

1. MASONRY OPENINGS LESS THAN ** FEET SHALL BE SPANNED WITH 8"x16" CONCRETE LINTELS WITH 2#5 REINFORCING BARS TOP AND BOTTOM.
2. MASONRY OPENINGS LESS THAN ** FEET SHALL BE SPANNED WITH 8"x12" CONCRETE LINTELS WITH 2#5 REINFORCING BARS TOP AND BOTTOM.
3. MASONRY OPENINGS LESS THAN ** FEET SHALL BE SPANNED WITH 8"X8" CONCRETE LINTELS WITH 2#5 REINFORCING BARS BOTTOM.
4. LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END.

051200 STRUCTURAL STEEL (CONN'S BY TLC)

1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:
   WIDE FLANGE SHAPES ASTM A992 (Fy=50 KSI)
   ANGLES, CHANNELS AND PLATES ASTM A36 (Fy=36 KSI)
   PIPE ASTM A53, GRADE B (Fy=35 KSI
   RECTANGULAR HSS ASTM A500, GRADE C (Fy=50 KSI)
   ROUND HSS ASTM A500, GRADE C (Fy=46 KSI)
   HIGH STRENGTH BOLTS ASTM A325 OR A490
   THREADED RODS ASTM A36 (Fy=36 KSI)
   HEAVY HEX NUTS ASTM A563
   HARDENED STEEL WASHERS ASTM F436
   DIRECT-TENSION-INDICATOR WASHERS ASTM F959
   ANCHOR RODS ASTM F1554 GR. 36 (Fy=36 KSI)
   SHEAR STUD CONNECTORS ASTM A108 (Fu=65 KSI)
3. CONNECTIONS:
   A. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AISC APPROVED METHOD.
   B. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.
   C. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE.
   D. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE.
   E. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES, GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL COLUMNS.
   F. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL A MOMENT CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.
   G. DETAIL MOMENT CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL MOMENT CONNECTION USING FULL PENETRATION WELDS AT BEAM FLANGES.
4. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.
5. BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY PRETENSIONED AND SLIP CRITICAL.
6. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED, TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS OR DIRECT TENSION INDICATING WASHERS.
7. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
8. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.
9. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL DECK, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCREEDED LEVEL.
10. SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 73-91 UNLESS NOTED OTHERWISE ON DRAWINGS.
11. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.
12. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.

051201 WELDING

1. WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION IN ACCORDANCE WITH AWS D1.1.
2. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.
3. FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.
5. PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS. THE MINIMUM FILLET WELD SIZE IS 3/16" UNLESS OTHERWISE NOTED.

051202 SHEAR STUD CONNECTORS

1. SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1 "ST

053101 COMPOSITE STEEL DECK

1. SHALL BE GALVANIZED G90, CORRUGATED STEEL COMPOSITE DECK OF GAGE AND DEPTH INDICATED ON DRAWINGS, CONFORMING TO STEEL DECK INSTITUTE SPECIFICATION FOR COMPOSITE FLOOR DECK.
2. DECK SHALL HAVE DEFORMATIONS TO PROVIDE ADEQUATE MECHANICAL INTERLOCKING BETWEEN DECK AND CONCRETE FOR COMPOSITE ACTION.
3. PROVIDE 5/8" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN AT SUPPORTS, AND AT 12" C/C ALONG EDGE SUPPORTS.
4. SIDE LAPS BETWEEN DECKS SHALL BE WELDED OR FASTENED USING #10 TEK SCREWS AT A MAXIMUM SPACING OF 36 INCHES, WITH NO LESS THAN (2) #10 TEKS SCREWS PER SIDE LAP SPAN.
5. BUTTON PUNCHING OF SIDE LAPS IS NOT PERMITTED.
6. CONDUIT LOCATED IN SLAB ON METAL DECK SHALL BE NO GREATER THAN 3/4" DIA. AND SHALL BE GALVANIZED STEEL CONDUIT.
7. MAINTAIN 2" MINIMUM COVER OVER CONDUIT AT ALL TIMES, INCLUDING LOCATIONS WHERE CONDUITS CROSS EACH OTHER. CONDUITS SHALL CROSS AT 90 DEGREES TO EACH OTHER.
8. CONDUIT IN CONCRETE SLAB ON METAL DECK SHALL NOT BE SPACED CLOSER THAN 6" O.C. MINIMUM.
9. DO NOT RUN CONDUIT CONTINUOUSLY IN DECK FLUTES.
10. CONDUIT SHALL BE ADEQUATELY FASTENED TO DECK TO PREVENT SHIFTING DURING CONCRETE POUR.

053102 STEEL ROOF DECK

1. SHALL BE GALVANIZED G90, TYPE "B" STEEL ROOF DECK OF GAGE AND DEPTH INDICATED ON DRAWINGS, AND SHALL CONFORM TO THE PROVISIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR STEEL ROOF DECK.
2. DECK SHALL BE VENTED IN AREAS TO RECEIVE LIGHT WEIGHT INSULATING CONCRETE FILL, PER FBC SECTION 1917.4.1; COORDINATE VENTING AREA REQUIREMENT W/ INSULATING FILL MANUFACTURER.
3. DECK CENTERING SHALL BE PLACED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SHALL BE CONTINUOUS OVER AT LEAST 3 SPANS.
4. WELD PATTERN AT MAIN DECK SUPPORTS, AND SIDELAP CONNECTIONS, SHALL BE AS INDICATED ON ROOF DECK FASTENING DIAGRAM. PROVIDE 5/8" PUDDLE WELDS AT 12" O.C. ALONG EDGE SUPPORTS, UNLESS NOTED OTHERWISE.
5. DECK SHALL BE TOPPED WITH TYPE II INSULATING FILL CONSISTING OF RIGID INSULATING BOARD COVERED WITH TWO OR MORE INCHES OF LIGHT WEIGHT INSULATING CONCRETE OVER THE TOP (MAX. 30 P.C.F. OVEN DRY DENSITY).
6. METAL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE AND ALL DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS.
7. DO NOT HANG MEP SYSTEMS (DUCTWORK, ROOF DRAIN OR FIRE PROTECTION PIPING, ETC) FROM ROOF DECK. ALL EQUIPMENT IS TO BE HUNG FROM ROOF BEAMS. SEE SECTION 5210 FOR ROOF JOIST REQUIREMENTS.

055213 RAILINGS

1. ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY REGISTERED PROFESSIONAL ENGINEER.
2. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE.
4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE CODES.
5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.
6. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

312002 FOUNDATIONS - W/ SOIL REPORTS

1. SEE THE FOLLOWING GEOTECHNICAL REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES. SITE PREPARATION AND FOUNDATION INSTALLATION SHALL COMPLY WITH:

   REPORT No. 8753
   PREPARED BY: JACA & SIERRA
   TITLED: Knud Hansen New Administration Office Building, St. Thomas, USVI
   DATED: AUGUST 1, 2025

2. FOLLOW THE RECOMMENDATIONS LISTED IN THE GEOTECHNICAL REPORT FOR SITE PREPARATION WORK. AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:

   A. STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS.

   B. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT.

   C. ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE.

   D. EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT LEAST 2 FEET BELOW THE BOTTOM OF THE FOUNDATION.

   E. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2 FEET BELOW THE BOTTOM OF THE EXCAVATION.

3. SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "A" VAPOR RETARDER. VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING, CONDUITS, ETC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF.
5. CANTILEVERED RETAINING WALL AND RESTRAINED FOUNDATION WALL DESIGN IS BASED ON THE FOLLOWING SOIL PROPERTIES:

ACTIVE SOIL PRESSURE COEFFICIENT (Ka)	0.31
AT-REST SOIL PRESSURE COEFFICIENT (Ko)	0.41
PASSIVE SOIL PRESSURE COEFFICIENT (Kp)	3.25
SATURATED SOIL UNIT WEIGHT	135 PCF
COEFFICIENT OF FRICTION	0.35

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2020
C	60% CDs	
D	90% CDs	
E	100% CDs	

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GENERAL NOTES

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No.	Description	Date

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B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

TABLE 1. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1.	MATERIAL VERIFICATION OF HIGH - STRENGTH BOLTS, NUTS AND WASHERS			
	A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	---	X	AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS
	B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	---	X	---
2.	INSPECTION OF HIGH - STRENGTH BOLTING			
	A. SNUG - TIGHT JOINTS	---	X	AISC 360, SECTION M2.5
	B. PRETENSIONED AND SLIP - CRITICAL JOINTS USING TURN - OF - NUT WITH MATCHMARKING, TWIST - OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	---	X	AISC 360, SECTION M2.5
	C. PRETENSIONED AND SLIP - CRITICAL JOINTS USING TURN - OF - NUT WITHOUT MATCHMARKING OR CALIBRATED METHODS OF INSTALLATION	X	---	AISC 360, SECTION M2.5
3.	MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD - FORMED STEEL DECK			
	A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	---	X	AISC 360, SECTION M5.5
	B. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	---	X	APPLICABLE ASTM MATERIAL STANDARDS
	C. MANUFACTURER'S CERTIFIED TEST REPORTS	---	X	
4.	MATERIAL VERIFICATION OF WELD FILLER MATERIALS			
	A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	---	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENT
	B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	---	X	---
5.	INSPECTION OF WELDING			
	A. STRUCTURAL STEEL AND COLD - FORMED STEEL DECK			
	1. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	X	---	AWS D1.1
	2. MULTIPASS FILLET WELDS	X	---	AWS D1.1
	3. SINGLE - PASS FILLET WELDS > 5/16"	X	X	AWS D1.1
	4. PLUG AND SLOT WELDS	X	---	AWS D1.1
	5. SINGLE - PASS FILLET WELDS < = 5/16"	---	X	AWS D1.1
	6. FLOOR AND ROOF DECK WELDS	---	X	AWS D1.3
	B.REINFORCING STEEL			
	1. VERIFICATION OF WELDABILITY OF REINFORNG STEEL OTHER THAN ASTM A706	---	X	AWS D1.4 ACI 318: 3.5.2
	2. REINFORCING STEEL - RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT	X	---	AWS D1.4 ACI 318: 3.5
	3. SHEAR REINFORCEMENT	X	---	AWS D1.4 ACI 318: 3.5
	4. OTHER REINFORCING STEEL	---	X	AWS D1.4 ACI 318: 3.5
6.	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE			
	A. DETAILS SUCH AS BRACING AND STIFFENING	---	X	---
	B. MEMBER LOCATIONS	---		---
	C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	---		---

TABLE 2. REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
01.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT	---	X	ACI 318: 3.5, 7.1 - 7.6.7
02.	INSPECTION OF REINFORCING STEEL WELDING	X	---	AWS D1.4 ACI 318: 3.5.2
03.	INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	X	---	ACI 318: 8.1.3
04.	INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	X	---	ACI 318: 3.8.6, 8.1.3
05.	VERIFYING USE OF REQUIRED DESIGN MIX	---	X	ACI 318: CH. 4, 5.2 - 5.4
06.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
07.	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	---	ACI 318: 5.9, 5.10
08.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	---	X	ACI 318: 5.11 - 5.13
09.	INSPECTION OF PRESTRESSED CONCRETE:			
	A.	X	---	ACI 318: 18.20
	B.	X	---	ACI 318: 18.18.4
10.		---	X	ACI 318: CH. 16
11.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	---	X	ACI 318: 6.2
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	---	X	ACI 318: 6.1.1

TABLE 4. REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
01.	INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
	B. BRIDGING - HORIZONTAL OR DIAGONAL	---	X	
	A. END CONNECTIONS - WELDING OR BOLTING	---	X	SJI SPECIFICATION LISTED IN 2207.1 OF THE 2015 IBC
02.	STANDARD BRIDGING	---	X	SJI SPECIFICATION LISTED IN 2207.1 OF THE 2015 IBC
03.	BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SECTION 2207.1 OF THE 2015 IBC	---	X	

TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF COLD FORM STEEL CONSTRUCTION

VERIFICATION AND INSPECTION			REQUIRED	
	CONTINUOUS	PERIODIC	YES	NO
MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:				
CONFORMS TO QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC		X	X	
INSPECTION OF WELDING:				
COLD-FORMED STEEL DECK				
CONFORMS TO QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC		X	X	

TABLE 1705.2.3
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
a. END CONNECTIONS - WELDING OR BOLTED	--	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
b. BRIDGING - HORIZONTAL OR DIAGONAL.	--	--	--
1. STANDARD BRIDGING.	--	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	--	X	--

a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

TABLE 1705.12.5/6
REQUIRED VERIFICATION AND INSPECTION OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS

VERIFICATION AND INSPECTION			REQUIRED	
	CONTINUOUS	PERIODIC	YES	NO
VERIFY THE FASTENING OF EXTERIOR CLADDING.		X	X	
VERIFY THE ERECTION AND ATTACHMENT OF INTERIOR AND EXTERIOR NONBEARING WALLS.		X	X	
VERIFY THE ERECTION AND FASTENING OF EXTERIOR VENEER.		X	X	
VERIFY THE INSTALLATION OF COMPONENTS REQUIRING SPECIAL INSPECTIONS PER OTHER PARTS OF THE STATEMENT OF SPECIAL INSPECTION.			X	

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2.	INSPECT REINFORCING BAR WELDING				
	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4, ACI 318: 26.6.4	-
	B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	X		-
	C. INSPECT ALL OTHER WELDS	X	-		-
3.	INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	X	-	ACI: 17.8.2.4, 17.8.2	-
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOAD.				
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A				
5.	VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, ASTM C 31, ACI 318: 26.5, 26.12	1908.10
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9.	INSPECT PRESTRESSED CONCRETE FOR:				
	A. APPLICATION OF PRESTRESSING FORCES	X	-	ACI 318: 26.10	-
	B. GROUTING OF BONDED PRESTRESSING TENDONS	X	-	ACI 318: 26.10	-
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: 26.9	-
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	ACI 318: 26.11.2	-
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2 (B)	

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

TABLE 1705.7
REQUIRED SPECIAL INSPECTIONS AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-
2.	DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-
3.	INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
4.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-
5.	FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2	-	-
6.	FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	-	-
7.	FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	-	-

TABLE 1705.8
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
2.	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-
3.	FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	-	-

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SPECIAL INSPECTIONS TABLES

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AISC 360-16 SECTION N5- REQUIRED SPECIAL INSPECTIONS AND TESTING FOR STEEL CONSTRUCTION.

AISC 360-16 TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING		
INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WPS AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM	O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	P	O
CONFIGURATION AND FINISH OF ACCESS HOLES		
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O
CHECK WELDING EQUIPMENT	O	-
THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.		

AISC 360-16 TABLE N5.4-2 INSPECTION TASKS DURING WELDING		
INSPECTION TASKS DURING WELDING	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH)	O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P

AISC 360-16 TABLE N5.4-3 INSPECTION TASKS AFTER WELDING		
INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P
ARC STRIKES	P	P
k-AREA[1]	P	P
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[2]	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O
[1]WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3IN. (75MM) OF THE WELD.		
[2]AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.		

TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE	O	O
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPERATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCEMENTED FOR FASTENER ASSEMBLES AND METHODS USED	P	O
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.	O	O

TABLE N5.6-2 INSPECTION TASKS DURING BOLTING		
INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O

TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING		
INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

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C&C WIND PRESSURE PLAN NOTES:

1. PRESSURES SHOWN AS NOMINAL COMPONENTS AND CLADDING PRESSURES HAVE BEEN CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.

   A - INDICATES TRIBUTARY AREA IN S.F.
   a - INDICATES END ZONE WIDTH IN FT.
   h - MEAN ROOF HEIGHT IN FT.
   Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH
   Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH

2. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.

3. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.

4. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.

5. ROOF AND ZONES (1) THRU (3)

6. WALL ZONES (4) AND (5)

7. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELF-WEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.

8. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18.

9. ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A NOMINAL LATERAL PRESSURE OF 104.6 PSF AND A SIMULTANEOUS NOMINAL UPLIFT PRESSURE OF 82.6 PSF (ROOF TOP EQUIPMENT PER IBC SECTION 1620.6 WITH Qh = 55.1 PSF)

10. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.

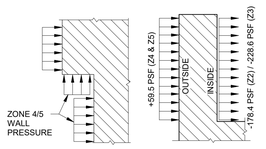
11. NOMINAL PARAPET DESIGN WIND PRESSURE LOAD CASES:
    LOAD CASE 1: OUTSIDE FACE: +59.5 PSF (ZONE 4) AND +59.5 PSF (ZONE 5)
    INSIDE FACE: -178.4 PSF (ZONE 2) AND -228.6 PSF (ZONE 3)
    LOAD CASE 2: OUTSIDE FACE: -105.4 PSF (ZONE 4) AND -120.4 PSF (ZONE 5)
    INSIDE FACE: +59.5 PSF
    NOTE THAT CASE 1 & CASE 2 WIND PRESSURES ARE APPLIED INDEPENDENTLY.

ULTIMATE C&C WIND PRESSURES (ASCE 7-22)

BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ROOF ZONE (1) (PSF)	ROOF ZONE (2) (PSF)	ROOF ZONE (3) (PSF)	WALL ZONE (4) (PSF)	WALL ZONE (5) (PSF)
MAIN	10' - 2"	56' - 0"	180	139	<10	+44.0 -172.5	+44.0 -227.6	+44.0 -310.2	+99.1 -107.4	+99.1 -132.1
					20	+41.3 -161.1	+41.3 -212.9	+41.3 -280.9	+94.7 -103.0	+94.7 -123.4
					50	+37.6 -146.1	+37.6 -193.6	+37.6 -242.2	+88.9 -97.2	+88.9 -111.7
					100+	+34.9 -134.7	+34.9 -179.0	+34.9 -212.9	+84.5 -92.8	+84.5 -103.0

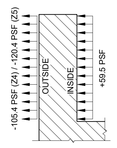
NOMINAL C&C WIND PRESSURES (ASCE 7-22)

BUILDING	a (FT)	h (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ROOF ZONE (1) (PSF)	ROOF ZONE (2) (PSF)	ROOF ZONE (3) (PSF)	WALL ZONE (4) (PSF)	WALL ZONE (5) (PSF)
MAIN	10' - 2"	56' - 0"	180	139	<10	+26.4 -103.5	+26.4 -136.5	+26.4 -186.1	+59.5 -64.4	+59.5 -79.3
					20	+24.8 -96.7	+24.8 -127.8	+24.8 -168.5	+56.8 -61.8	+56.8 -74.0
					50	+22.6 -87.7	+22.6 -116.2	+22.6 -145.3	+53.3 -58.3	+53.3 -67.0
					100+	+20.9 -80.8	+20.9 -107.4	+20.9 -127.8	+50.7 -55.7	+50.7 -61.8

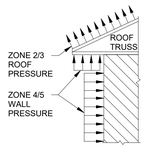


SECTION AT ALCOVE

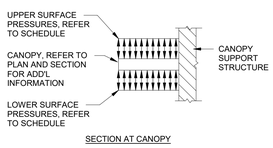
PARAPET LOAD CASE 1



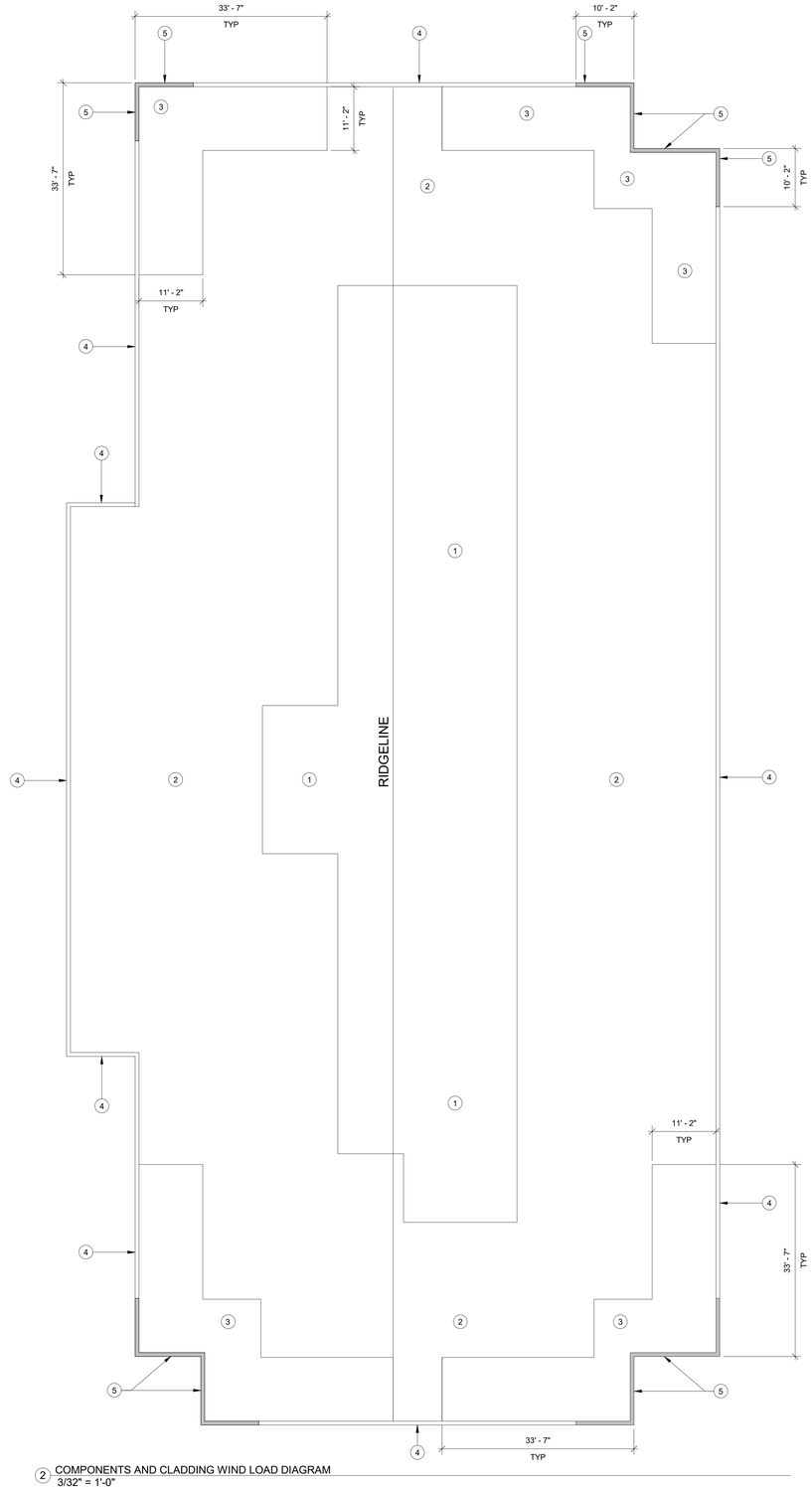
PARAPET LOAD CASE 2



SECTION AT ROOF TRUSS



SECTION AT CANOPY



(2) COMPONENTS AND CLADDING WIND LOAD DIAGRAM
3/32" = 1'-0"

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COMPONENTS & CLADDING WIND LOAD DIAGRAM

REVISIONS:

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CHECKED BY: JFV
DATE: 04.06.2026

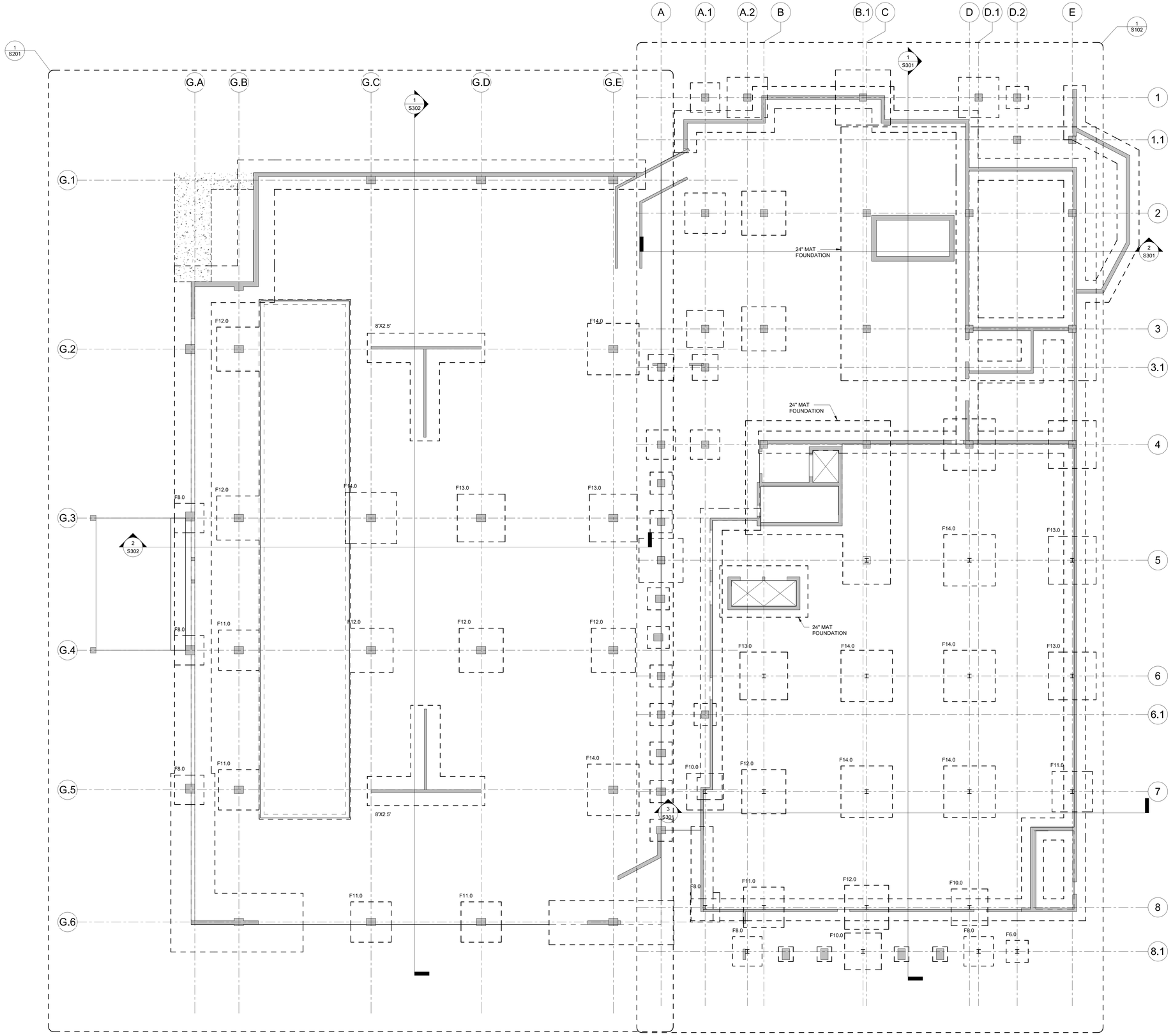
NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S007

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1 OVERALL FOUNDATION AND SLAB PLAN
3/32" = 1'-0"

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D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

OVERALL FOUNDATION PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S101

B: 30% CONSTRUCTION DOCUMENTS

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KEYNOTE LEGEND (#)

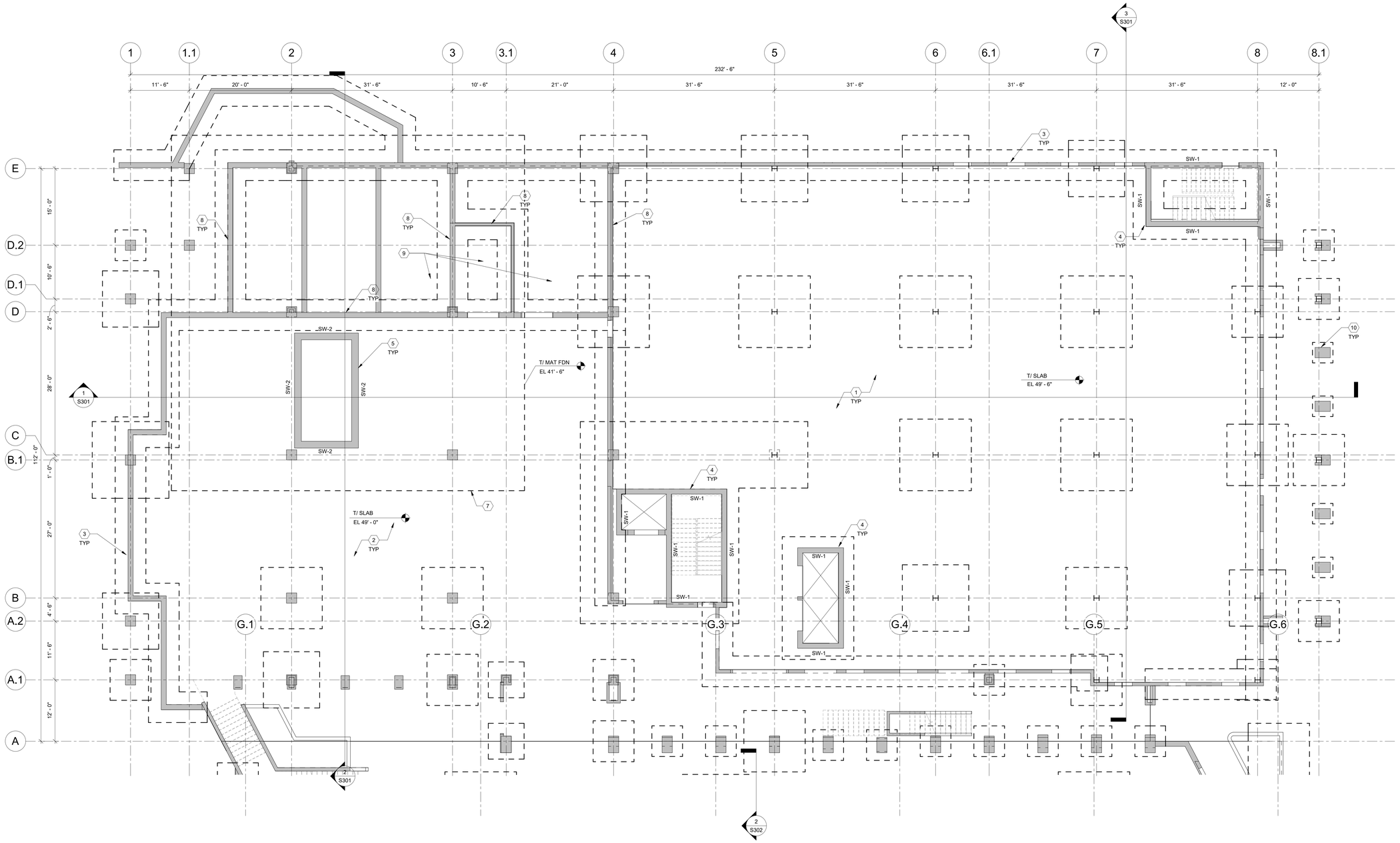
1. 4" CONC. SLAB-ON-GRADE ON COMPACTED TERMITE TREATED SUB-GRADE ON 15 MIL CLASS-A VAPOR BARRIER. REINFORCE W/ 6X6 W2.1XW2.1 WWF (FLAT SHEETS) AT SLAB MID-DEPTH
2. 6" CONC. SLAB-ON-GRADE ON COMPACTED TERMITE TREATED SUB-GRADE ON 15 MIL CLASS-A VAPOR BARRIER. REINFORCE W/ 6X6 W2.1XW2.1 WWF (FLAT SHEETS) AT SLAB MID-DEPTH
3. 12" CONCRETE RETAINING WALLS. REFER TO SCHEDULE FOR REINFORCING.
4. (SW-1) 12" CONCRETE REINFORCED WALLS. REFER TO SCHEDULE FOR REINFORCING.
5. (SW-2) 16" CONCRETE REINFORCED WALLS. REFER TO SCHEDULE FOR REINFORCING.
6. PROVIDE ISOLATION JOINT AT EACH COLUMN, SEE TYPICAL DETAIL.
7. 24" MAT FOUNDATION. REFER TO DETAIL FOR REINFORCING.
8. 12" CONCRETE CISTERN WALLS
9. 14" CONCRETE SLAB AT CISTERNE LID
10. CONCRETE COLUMNS AS PART OF THE WALL CLADDING SYSTEM

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR EXTERIOR SLAB CONSTRUCTION LOCATIONS AND ELEVATIONS.
2. CONTRACTOR SHALL COORDINATE ALL DOOR AND WINDOW ROUGH OPENINGS IN TILT PANELS WITH ARCHITECTURAL DRAWINGS AND MNFR PRIOR TO FABRICATION. CONTRACTOR TO COORDINATE MISCELLANEOUS OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PRIOR TO FABRICATION. ALL PANELS SHALL MEET MINIMUM PANEL REQUIREMENTS ON THESE DRAWINGS FOR THICKNESS AND REINFORCING AND SHALL HAVE A 2'-0" MINIMUM LEG BETWEEN OPENINGS AND PANEL JOINTS.
3. FX.X INDICATES SPREAD FOUNDATION, REFER TO SCHEDULE FOR SIZE AND REINFORCING.
4. WFX.X INDICATES CONTINUOUS WALL FOUNDATION, REFER TO SCHEDULE FOR SIZE AND REINFORCING.
5. CJ INDICATES SAW CUT CRACK CONTROL JOINTS, REFER TO TYPICAL DETAIL .

STRUCTURAL ELEVATIONS

- T/FDN EL. = -X'-X", UNO
- T/SLAB EL. = 0'-0", UNO



1 ENLARGED FOUNDATION AND SLAB PLAN
1/8" = 1'-0"

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ENLARGED FOUNDATION AND SLAB PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S102

B: 30% CONSTRUCTION DOCUMENTS

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KEYNOTE LEGEND (#)

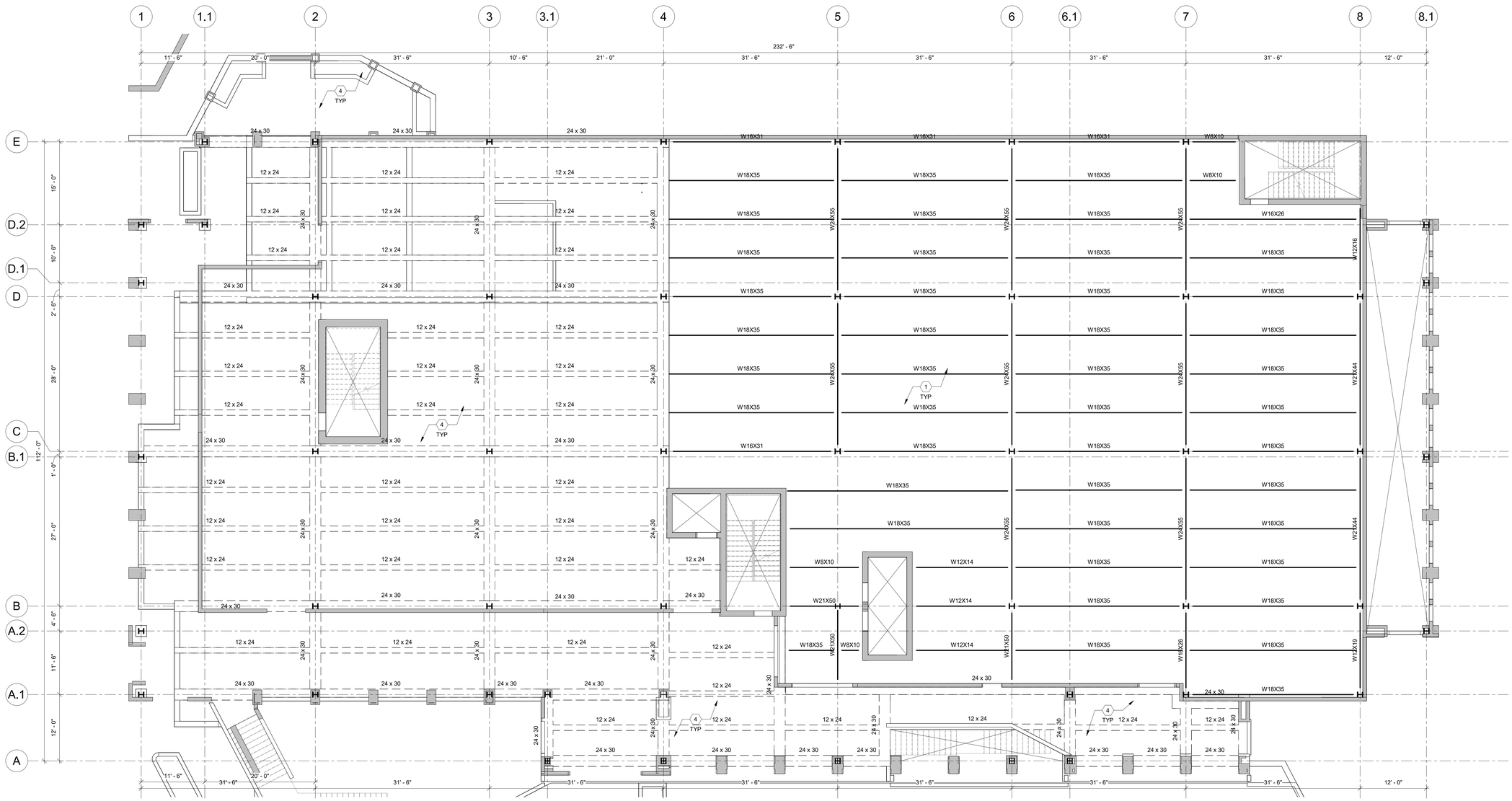
1. 4 1/2" NW CONC REINFORCED W/ XXX WX.XxX.X WWF (FLAT SHEETS), ON G30 XXXXX STEEL DECK (6 1/2" TOTAL THICKNESS)
2. CONT LXxXxX/X (LLV DECK SUPPORT ANGLE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
3. PRE-ENGINEERED METAL PAN STAIR PER DELEGATED SPECIALTY ENGINEER.
4. 6" CAST IN PLACE CONCRETE SLAB

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DOOR AND WINDOW ROUGH OPENINGS IN CONCRETE REINFORCED WALLS WITH ARCHITECTURAL DRAWINGS AND MNFR PRIOR TO FABRICATION. CONTRACTOR TO COORDINATE MISCELLANEOUS OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PRIOR TO FABRICATION.

STRUCTURAL ELEVATIONS

- T/MAIN FLOOR SLAB EL. = 64'-6", UNO
- T/STEEL EL. = 63'-11 1/2", UNO
- T/TIE BEAM EL. = X'-X", UNO



1 MAIN FLOOR FRAMING PLAN
1/8" = 1'-0"

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ENLARGED MAIN FLOOR FRAMING PLAN

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REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S103

B: 30% CONSTRUCTION DOCUMENTS

KEYNOTE LEGEND (#)

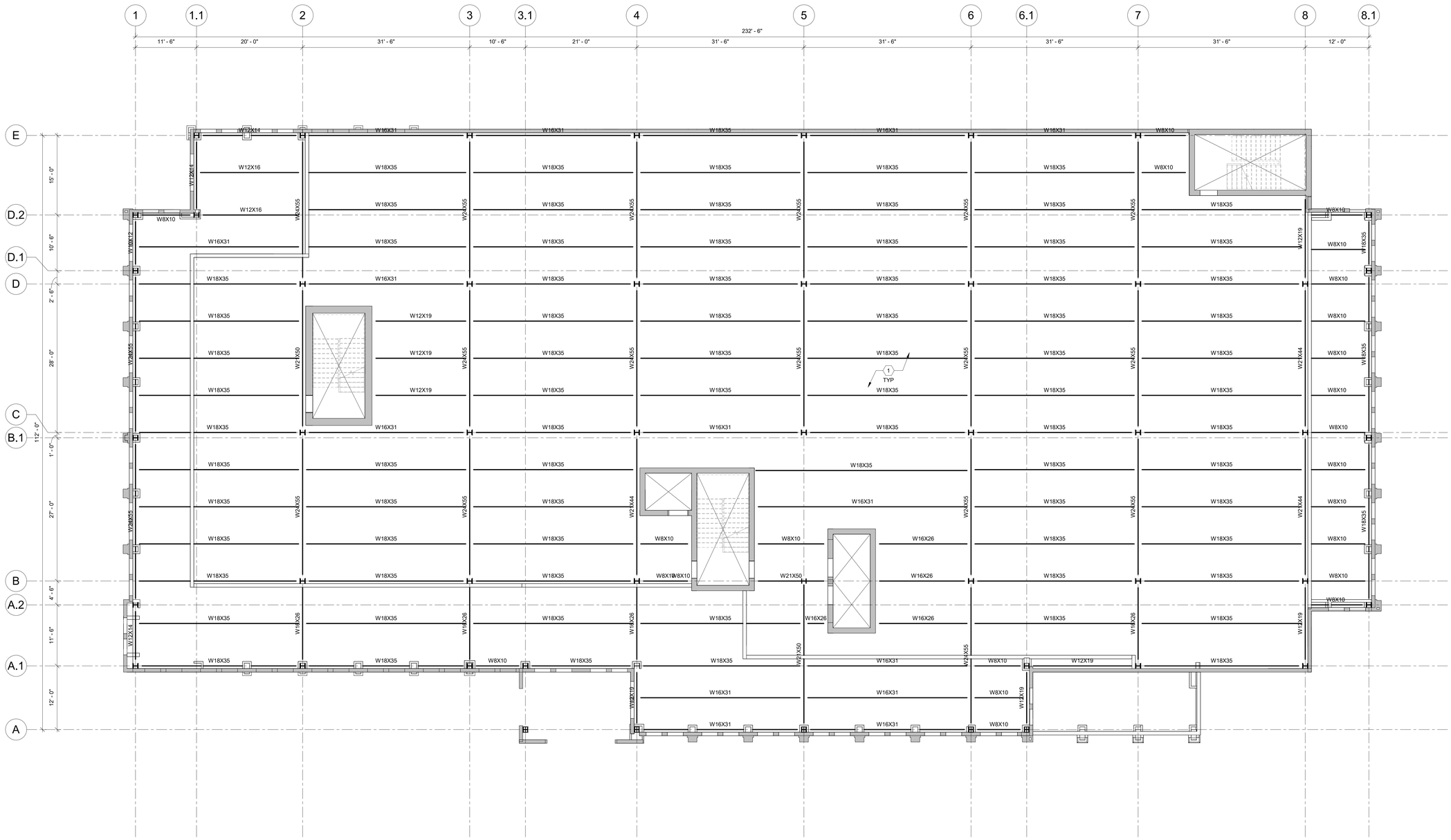
1. 4 1/2" NW CONC REINFORCED W/ XXX WX.XxX.X WWF (FLAT SHEETS), ON GX0 XXXXX STEEL DECK (6 1/2" TOTAL THICKNESS)
2. CONT LXxXxX/X (LLV DECK SUPPORT ANGLE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
3. PRE-ENGINEERED METAL PAN STAIR PER DELEGATED SPECIALTY ENGINEER.

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DOOR AND WINDOW ROUGH OPENINGS IN CONCRETE REINFORCED WALLS WITH ARCHITECTURAL DRAWINGS AND MNFR PRIOR TO FABRICATION. CONTRACTOR TO COORDINATE MISCELLANEOUS OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PRIOR TO FABRICATION.

STRUCTURAL ELEVATIONS

- T/MAIN FLOOR SLAB EL. = 77'-10", UNO
- T/STEEL EL. = 77'-3 1/2", UNO
- T/TIE BEAM EL. = X'-X", UNO



1 SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

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ENLARGED SECOND FLOOR FRAMING PLAN

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REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S104

B: 30% CONSTRUCTION DOCUMENTS

KEYNOTE LEGEND (#)

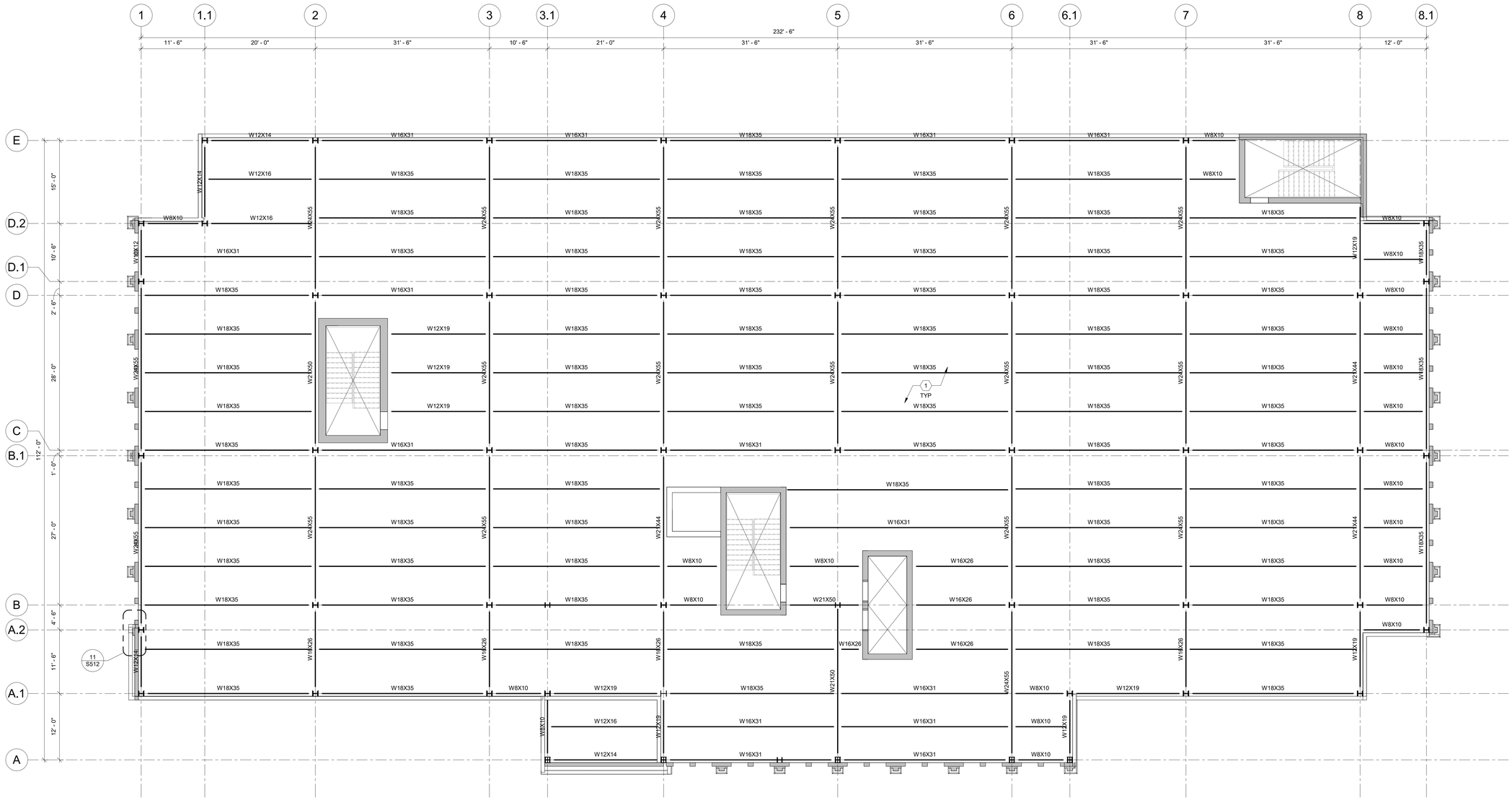
1. 4 1/2" NW CONC REINFORCED W/ XXX WX XxX.X WWF (FLAT SHEETS), ON GX0 XXXXX STEEL DECK (6 1/2" TOTAL THICKNESS)
2. CONT LXxXxX/X (LLV DECK SUPPORT ANGLE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
3. PRE-ENGINEERED METAL PAN STAIR PER DELEGATED SPECIALTY ENGINEER.

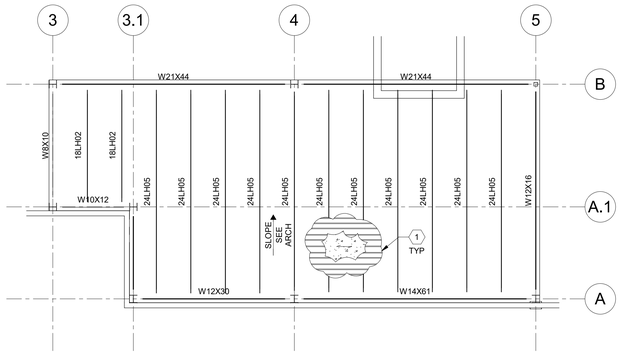
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DOOR AND WINDOW ROUGH OPENINGS IN CONCRETE REINFORCED WALLS WITH ARCHITECTURAL DRAWINGS AND MNFR PRIOR TO FABRICATION. CONTRACTOR TO COORDINATE MISCELLANEOUS OPENINGS WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PRIOR TO FABRICATION.

STRUCTURAL ELEVATIONS

- T/THIRD FLOOR SLAB EL. = 91'-2", UNO
- T/STEEL EL. = 90'- 7 1/2", UNO
- T/TIE BEAM EL. = -X'-X", UNO


1
1.1
2
3
3.1
4
5
6
6.1
7
8
8.1
232' - 6"
11' - 6"
20' - 0"
31' - 6"
10' - 6"
21' - 0"
31' - 6"
31' - 6"
31' - 6"
31' - 6"
12' - 0"
E
D.2
D.1
D
C
B.1
B
A.2
A.1
A
15' - 0"
10' - 6"
2' - 6"
28' - 0"
1'2' - 0"
1' - 0"
27' - 0"
4' - 6"
11' - 6"
12' - 0"
W12X14
W16X31
W18X35
W8X10
W12X16
W18X55
W12X50
W12X19
W21X50
W16X26
W21X55
W12X44
W12X24
W18X65
W12X65
W12X35
W16X67
W12X22
W12X58
W18X40
W12X40
W12X45
W12X53
W12X72
W12X87
W12X96
W12X106
W12X120
W12X136
W12X152
W12X170
W12X190
W12X210
W12X230
W12X252
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W12X2581
W12X2623
W12X2664
W12X2706
W12X2747
W12X2789
W12X2830
W12X2872
W12X2913
W12X2955



2 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

KEYNOTE LEGEND

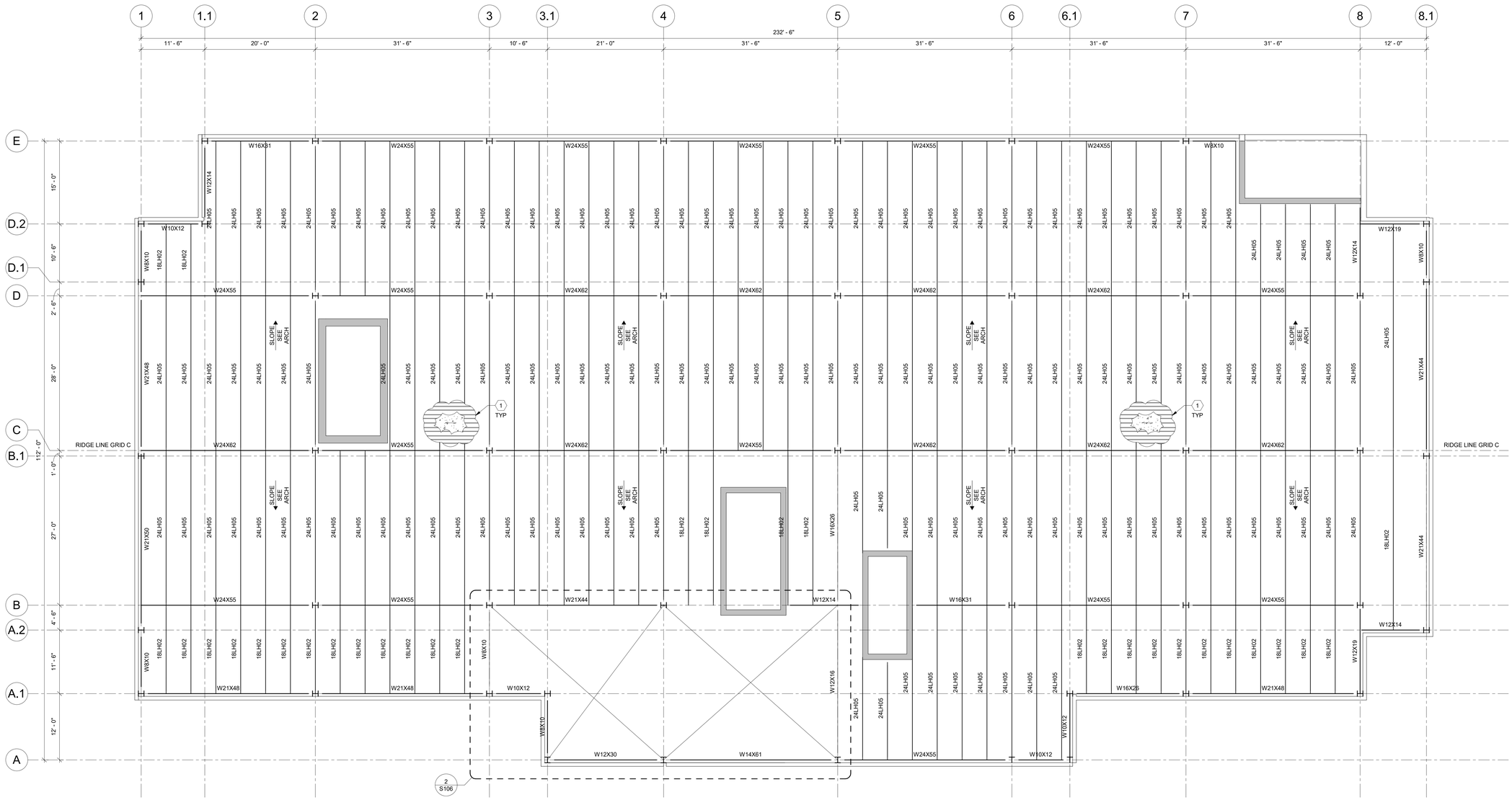
1. 4 1/2" NW CONC REINFORCED W/ XXX WX.XxX.X WWF (FLAT SHEETS), ON G90 XXXXX STEEL DECK (6 1/2" TOTAL THICKNESS).
2. CONT L5x3x1/4 (LLV) ROOF DECK SUPPORT ANGLE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
3. APPROXIMATE LOCATION OF JOIST BRIDGING PER SJI REQUIREMENTS. IN ADDITION, AT A MINIMUM, A SINGLE LINE OF BOTTOM CHORD BRIDGING MUST BE PROVIDED NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END FOR LH JOISTS. PROVIDE DIAGONAL BRIDGING AT ALL ROWS.
4. APPROXIMATE LOCATION OF ROOFTOP MECHANICAL EQUIPMENT, COORDINATE FINAL LOCATION W/ MECH DWGS. REFER TO DETAIL AND .

GENERAL NOTES

1. LH SERIES STEEL JOISTS SHALL HAVE 6" DEEP SEATS.
2. K SERIES STEEL JOISTS SHALL HAVE 3 1/2" DEEP SEATS, UNO.

STRUCTURAL ELEVATIONS

- T/STEEL EL. = -X'-X", UNO



1 ROOF FRAMING PLAN
1/8" = 1'-0"

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St. Thomas, US. Virgin Islands 00802

ENLARGED ROOF FRAMING PLAN

REVISIONS:

No.	Description	Date

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CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
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ODR TASK ORDER NUMBER
010-9-101918

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S106

B: 30% CONSTRUCTION DOCUMENTS

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KEYNOTE LEGEND (#)

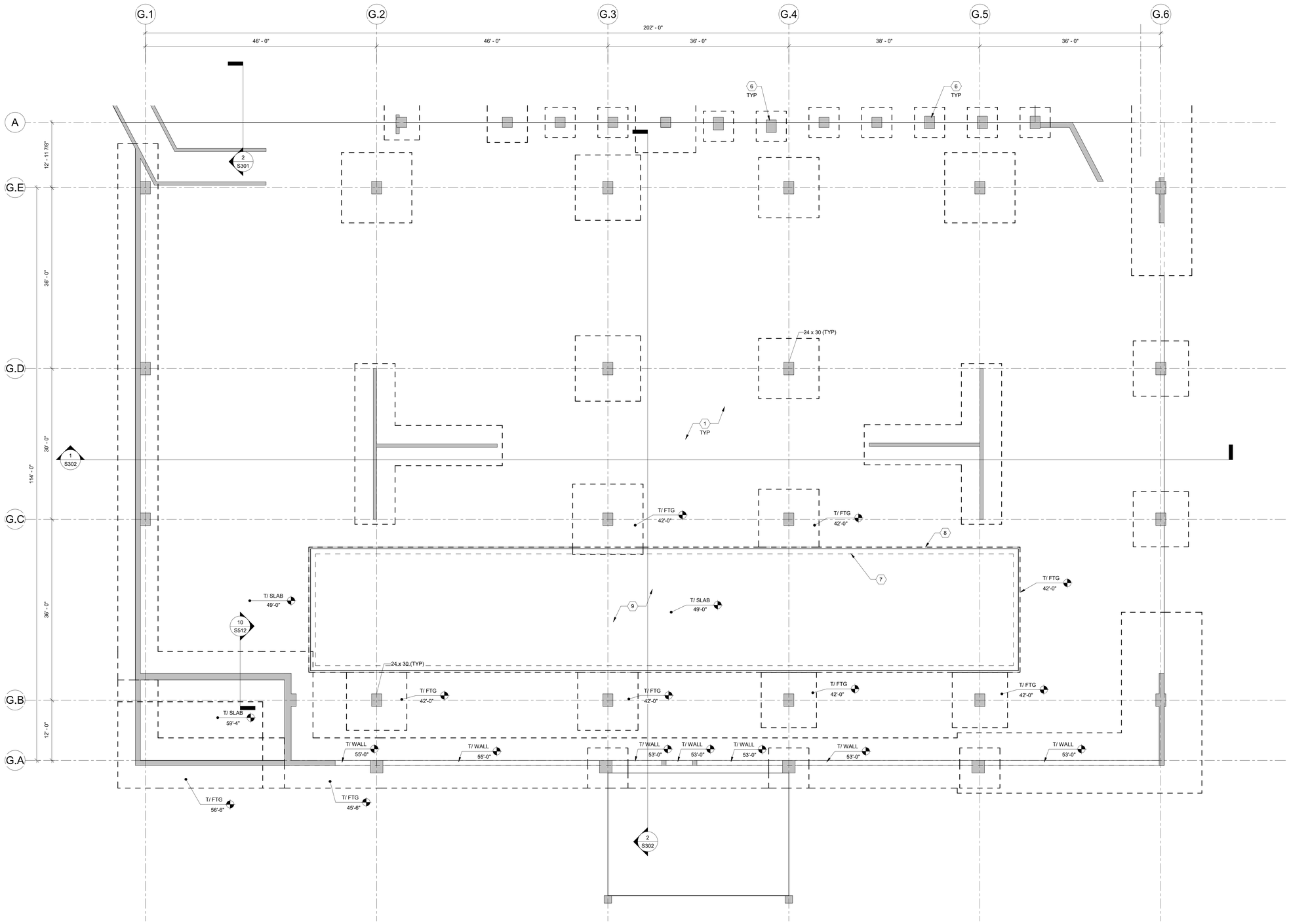
1. 4" CONC. SLAB-ON-GRADE ON COMPACTED TERMITE TREATED SUB-GRADE ON 15 MIL CLASS-A VAPOR BARRIER. REINFORCE W/ 6X6 W2.1XW2.1 WWF (FLAT SHEETS) AT SLAB MID-DEPTH
2. 6" CONC. SLAB-ON-GRADE ON COMPACTED TERMITE TREATED SUB-GRADE ON 15 MIL CLASS-A VAPOR BARRIER. REINFORCE W/ 6X6 W2.1XW2.1 WWF (FLAT SHEETS) AT SLAB MID-DEPTH
3. 8" CONCRETE REINFORCED WALLS. REFER TO SCHEDULE FOR REINFORCING.
4. 12" CONCRETE REINFORCED WALLS. REFER TO SCHEDULE FOR REINFORCING.
5. PROVIDE ISOLATION JOINT AT EACH COLUMN, SEE TYPICAL DETAIL.
6. CONCRETE COLUMNS AS PART OF THE WALL CLADDING SYSTEM.
7. 16" THICK CONCRETE WALL. REINFORCE W/ #X @X" O.C. VERT. EA. FACE AND #X@X" O.C. HORIZ. EA. FACE
8. 24" THICK CONCRETE MAT FOUNDATION. REINFORCE W/ #7@8" OC. TOP AND BOTTOM EA. WAY. PROVIDE STANDARD 90 DEG HOOK AT ENDS OF DISCONTINUOUS TOP BARS.
9. 12" ELEVATED CONCRETE SLAB. REINFORCE W/ #5 @ 12" O.C. BOTTOM EA. WAY AND #4@12" O.C. TOP EACH WAY. SEE PLAN FOR ADD'L TOP REINFORCEMENT.

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR EXTERIOR SLAB CONSTRUCTION LOCATIONS AND ELEVATIONS.
2. FX.X INDICATES SPREAD FOUNDATION, REFER TO SCHEDULE FOR SIZE AND REINFORCING.
3. WFX.X INDICATES CONTINUOUS WALL FOUNDATION, REFER TO SCHEDULE FOR SIZE AND REINFORCING.
4. CJ INDICATES SAW CUT CRACK CONTROL JOINTS, REFER TO TYPICAL DETAIL .

STRUCTURAL ELEVATIONS

- T/FDN EL. = -X'-X", UNO
- T/SLAB EL. = 49'-0", UNO



1 PARKING STRUCTURE FOUNDATION PLAN
1/8" = 1'-0"

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PARKING STRUCTURE FOUNDATION PLAN

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CDR TASK ORDER NUMBER
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S201

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KEYNOTE LEGEND (#)

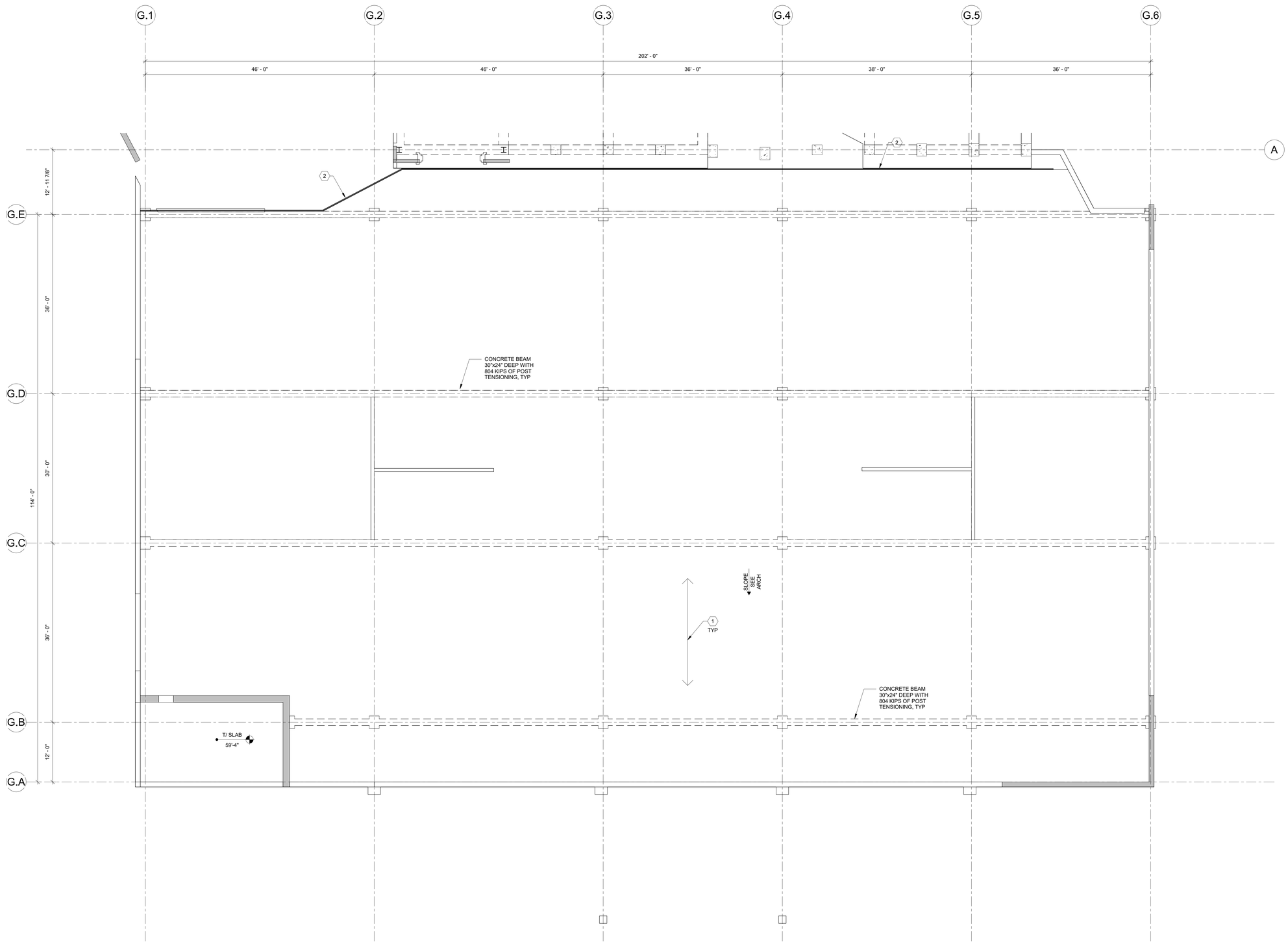
1. 10" ONE WAY POST TENSIONED SLAB WITH BEAMS FOR ESTIMATING ASSUME 1.5 LBS/SF FOR POST TENSIONING AND 2LBS./SF FOR MILD REINFORCING STEEL
2. ——— INDICATES 3" EXPANSION JOINT

GENERAL NOTES

1. XXXXX
2. XXXXX

STRUCTURAL ELEVATIONS

- T/CONC BEAM EL. = (VARIES), SEE PLAN
- T/XXXXX EL. X'-X"



1 PARKING STRUCTURE FRAMING PLAN
1/8" = 1'-0"

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PARKING STRUCTURE FRAMING PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: VL
CHECKED BY: JFV
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49

CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S202

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KEYNOTE LEGEND (#)

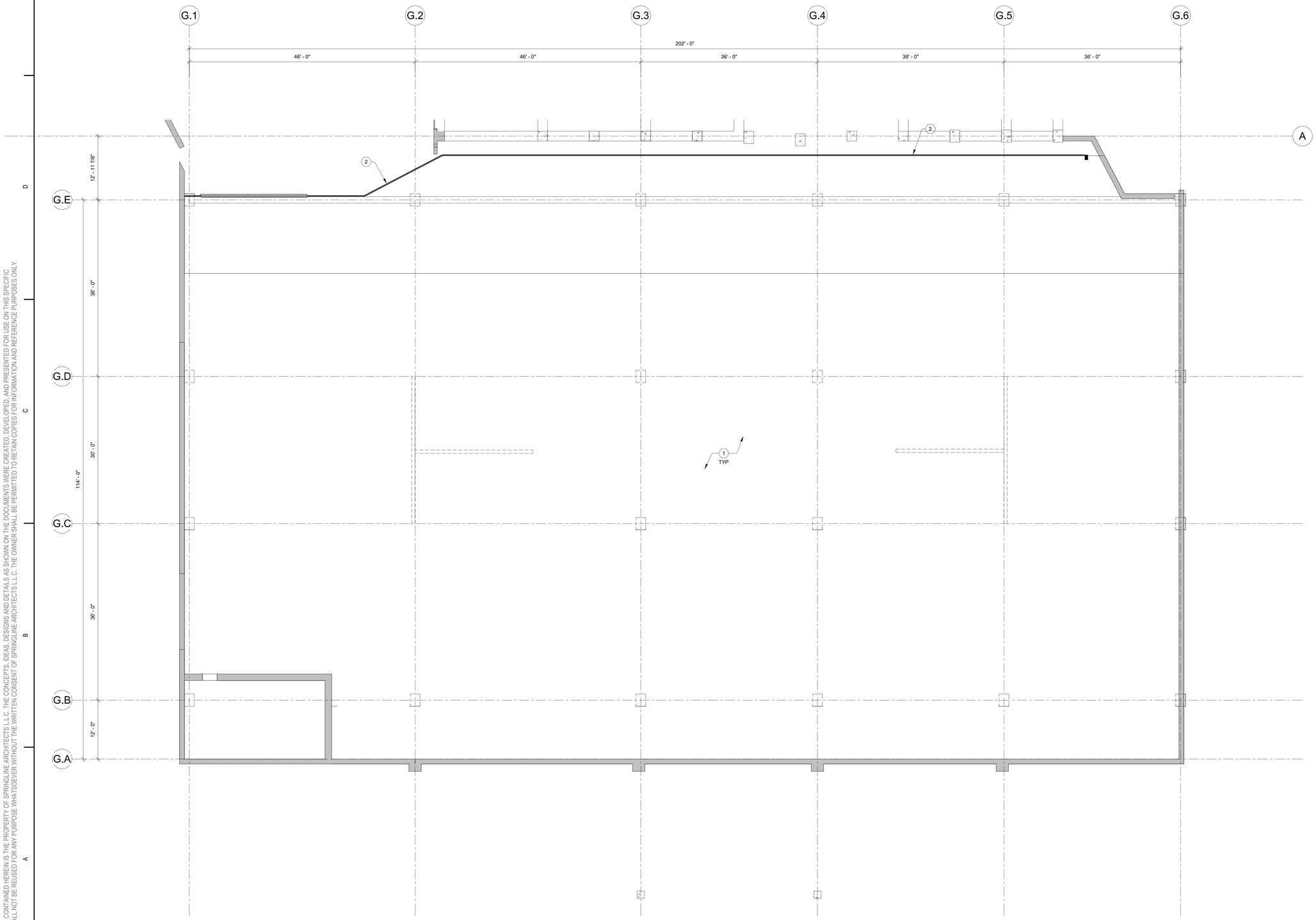
1. 13" FLAT POST TENSIONED SLAB FOR ESTIMATING ASSUME 1.5 LBS/SF FOR POST TENSIONING AND 2 LBS./SF FOR MILD REINFORCING STEEL
2. ——— INDICATES 3" EXPANSION JOINT

GENERAL NOTES

1. XXXXX
2. XXXXX

STRUCTURAL ELEVATIONS

- T/ PT SLAB EL. = (VARIES), SEE PLAN



1 PARKING STRUCTURE FRAMING PLAN - ALTERNATE DEDUCT #1
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PARKING STRUCTURE FRAMING PLAN - ALTERNATE DEDUCT #1

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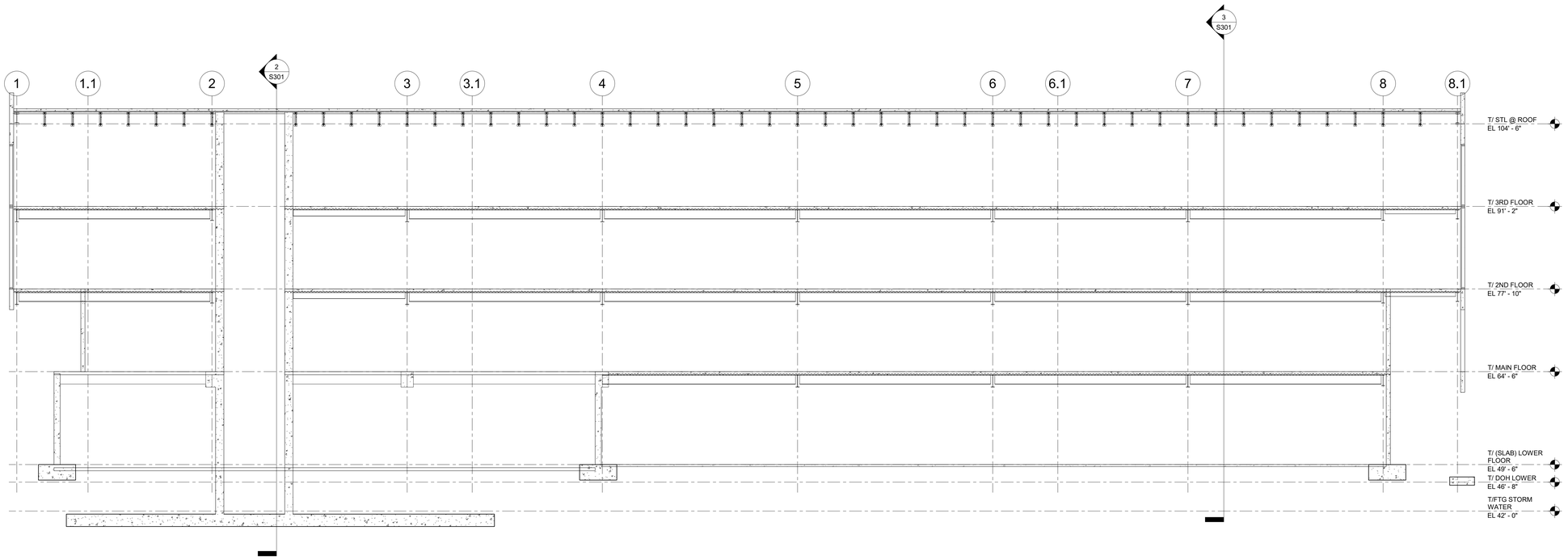
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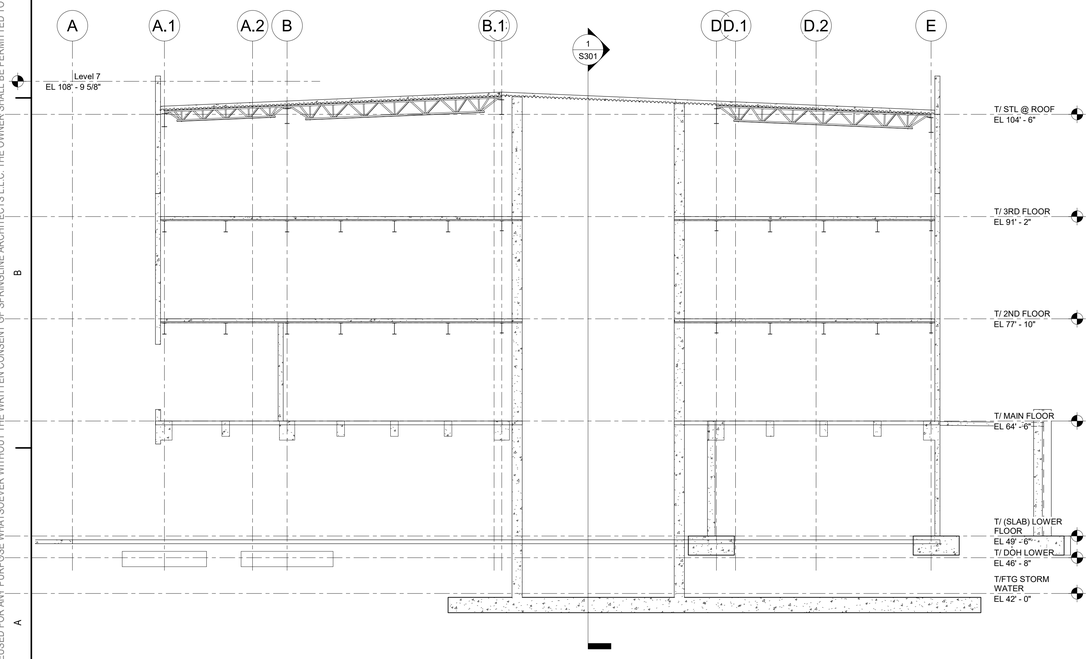
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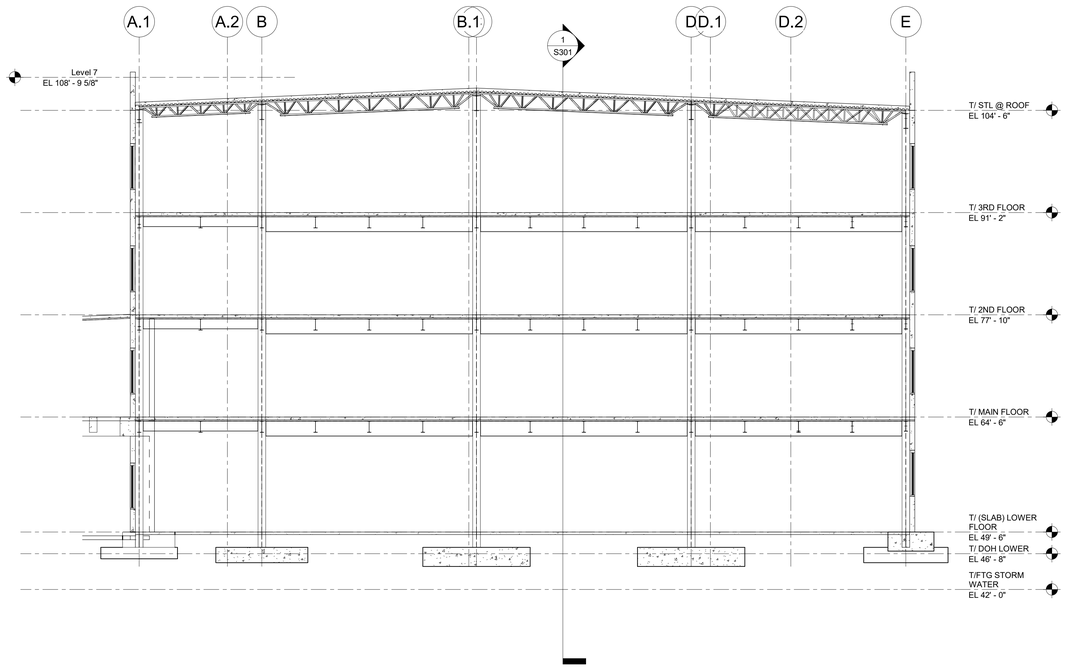
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S203



1 Section 1
1/8" = 1'-0"



2 Section 2
1/8" = 1'-0"



3 Section 3
1/8" = 1'-0"

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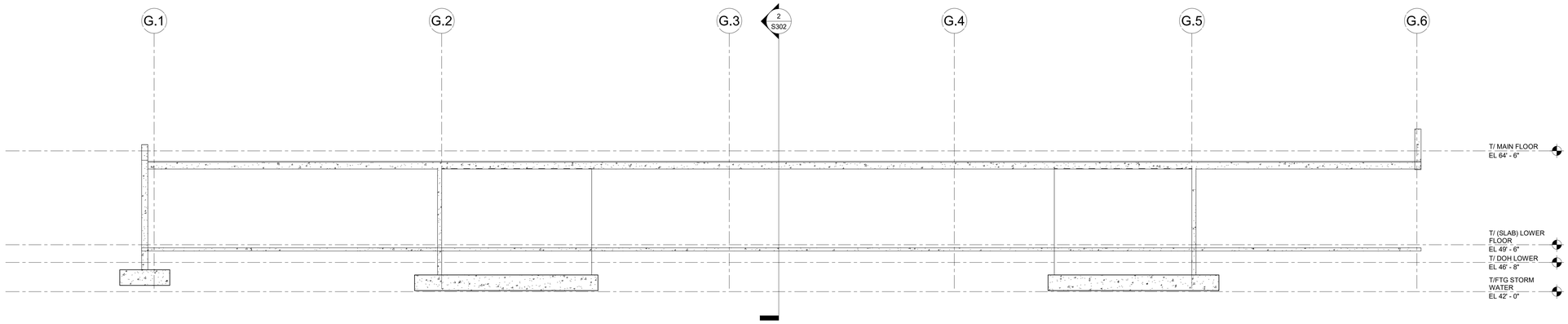
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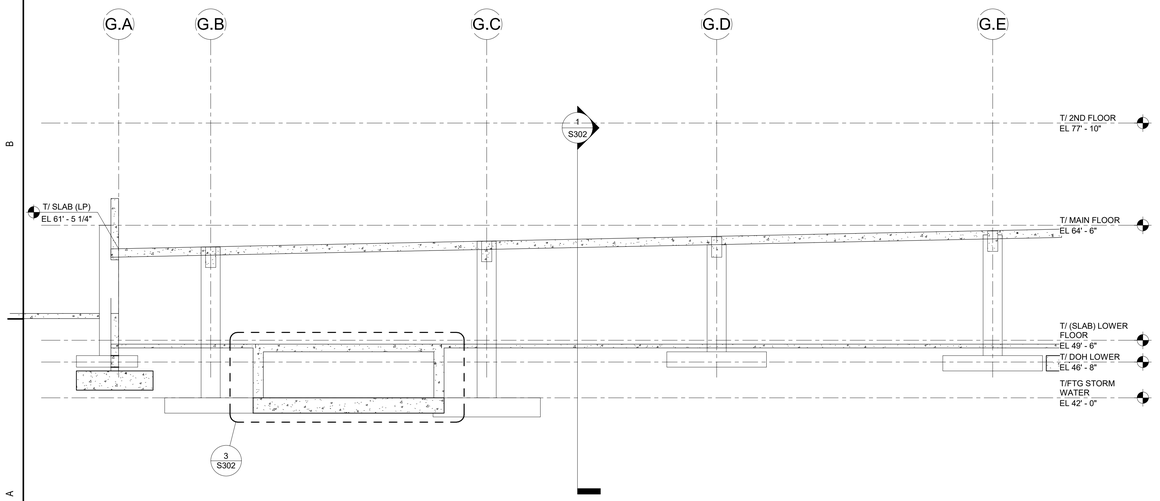
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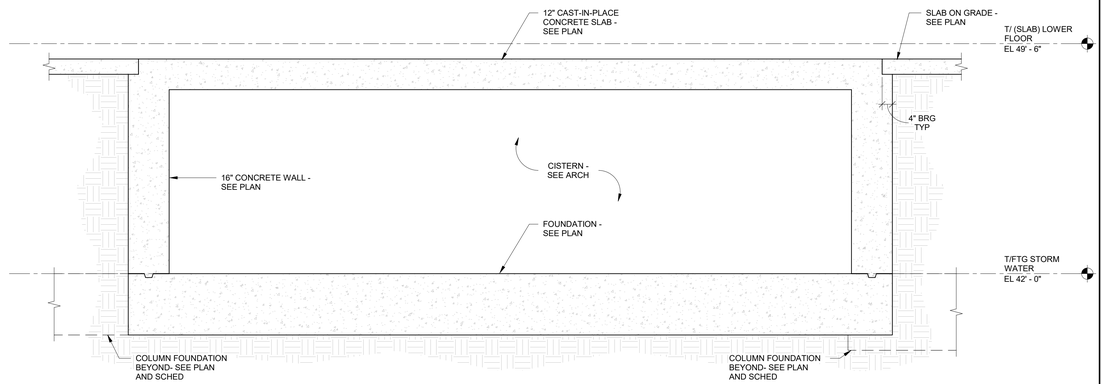
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1 Section 4
1/8" = 1'-0"



2 Section 5
1/8" = 1'-0"



3 SECTION AT CISTERN
1/2" = 1'-0"

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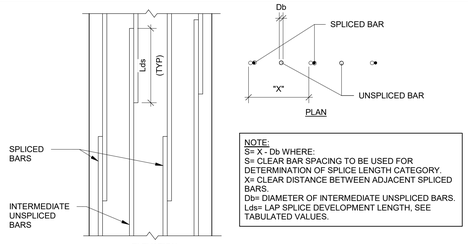
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NOTE:
S= X - Db WHERE:
S= CLEAR BAR SPACING TO BE USED FOR DETERMINATION OF SPLICE LENGTH CATEGORY.
X= CLEAR DISTANCE BETWEEN ADJACENT SPLICED BARS.
Db= DIAMETER OF INTERMEDIATE UNSPLICED BARS.
Lds= LAP SPLICE DEVELOPMENT LENGTH, SEE TABULATED VALUES.

LENGTH OF LAP SPLICES AND BAR EMBEDMENT SHALL BE AS SHOWN IN TABLE, UNLESS OTHERWISE NOTED:

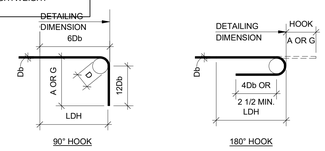
MIN SPLICE LENGTH FOR DEFORMED BARS

	BAR SIZE	3000 PSI *CLASS B	4000 PSI *CLASS B	5000 PSI *CLASS B
T<12"	#3	23"	20"	17"
	#4	29"	25"	23"
	#5	37"	32"	29"
	#6	43"	38"	34"
	#7	63"	55"	50"
	#8	72"	63"	56"
	#9	81"	71"	63"

NOTE:
1. WHERE DEPTH OF FRESH CONCRETE BELOW SPLICED REINF BARS IS GREATER THAN 12", MULTIPLY TABULATED SPLICE LENGTH BY 1.3.
2. "Db" IS BAR DIAMETER.
3. FOR ALL REINF SPLICES UTILIZE CLASS "B" SPLICE, U.N.O. ON PLANS OR DETAILS.

1 TYPICAL LAP SPLICE SCHEDULE
3/4" = 1'-0"

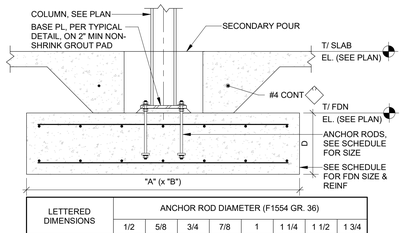
NOTES:
1. MULTIPLY TABULATED VALUES BY 1.2 FOR EPOXY COATED REINFORCEMENT.
2. DIVIDE TABULATED VALUES BY 0.75 FOR REINFORCEMENT IN LIGHTWEIGHT CONCRETE.



RECOMMENDED END HOOKS, ALL GRADES

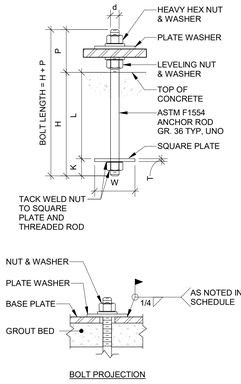
BARS SIZE	FINISHED BEND DIAMETER D (IN.)	180° HOOKS		90° HOOK	F'c = 3000 PSI	F'c = 4000 PSI	F'c = 5000 PSI
		A OR G, (IN.)	J, (IN.)	A OR G, (IN.)	LDH	LDH	LDH
#3	2 1/4	5	4	6	9	8	7
#4	3	6	4	8	11	10	9
#5	4 1/2	7	5	10	14	12	11
#6	2 1/2	8	6	12	17	15	13
#7	5 1/4	10	7	14	20	17	15
#8	6	11	8	16	22	19	17
#9	9 1/2	15	11 3/4	19	25	22	20
#10	10 3/4	17	13 1/4	22	28	25	22

2 TYPICAL END HOOK SCHEDULE
3/4" = 1'-0"



LETTERED DIMENSIONS		ANCHOR ROD DIAMETER (F1554 GR. 36)							
		1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4
BASE PL HOLE DIA.		1	1 1/8	1 5/16	1 9/16	1 13/16	2 1/16	2 5/16	2 3/4
SQUARE PLATE	W	2	2	2 1/2	2 3/4	3	4 1/4	4 1/2	5 1/2
	T	1/2	1/2	1/2	3/4	3/4	1	1	1
	HOLE DIA.	5/8	3/4	7/8	1	1 1/8	1 3/8	1 5/8	1 7/8
L (UNO)		8	10	12	15	17	22	27	35
H (UNO)		9½	11½	14	17	19	24½	30	38½
K		1½	1½	2	2	2	2½	3	3½
P (MIN)		5		6			8		
PLATE WASHER		1/4"x2"x2"		3/8"x3"x3"			1/2"x4"x4"		
HOLE DIAMETER		9/16	11/16	13/16	15/16	1 1/16	1 5/16	1 9/16	1 13/16

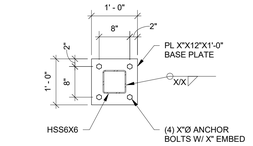
*ANCHOR EMBEDMENT DEPTH "H" BASED ON 6" MIN SPACING UP TO 1"Ø AND 8" MIN SPACING OVER 1"Ø, f'c = 3000 PSI, AND PURE TENSION LOADING.



3 TYPICAL STEEL COLUMN SPREAD FOUNDATION SCHEDULE
3/4" = 1'-0"

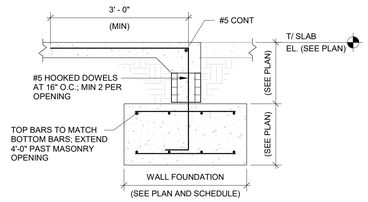
FOUNDATION SCHEDULE

FDN DESIGNATION	DIMENSION "A"	DIMENSION "B"	FDN THICKNESS	REBAR (EA. WAY BOTTOM U.N.O.)	REMARKS
F7.0	7'-0"	7'-0"	1'-6"	(9) #5	
F8.0	8'-0"	8'-0"	1'-8"	(6) #7	
F10.0	10'-0"	10'-0"	2'-0"	(9) #7	
F12.0	12'-0"	12'-0"	2'-0"	(11) #7	
F14.0	14'-0"	14'-0"	2'-8"	(12) #9	

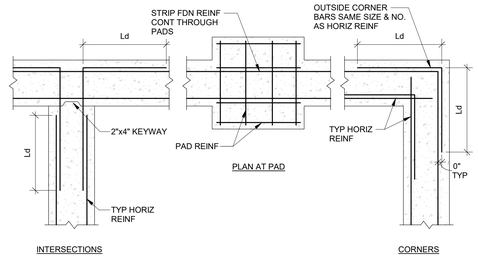


NOTE: ALL ANCHORS RODS, NUTS, WASHERS AND PLATES SHALL BE HOT DIP GALVANIZED AND SHIPPED AS COMPLETE ASSEMBLIES BY THE FABRICATOR.

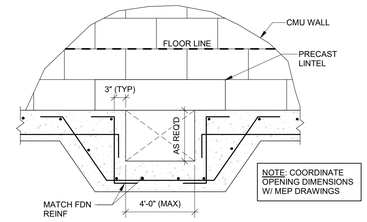
4 BASE PLATE DETAILS
3/4" = 1'-0"



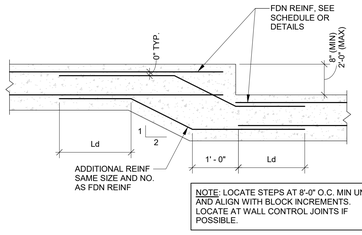
5 TYPICAL WALL FOUNDATION AT OPENINGS
3/4" = 1'-0"



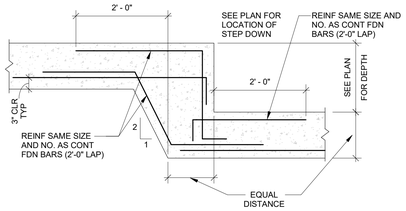
6 TYPICAL HORIZ REINF - CONCRETE BEAMS AND FOUNDATIONS
3/4" = 1'-0"



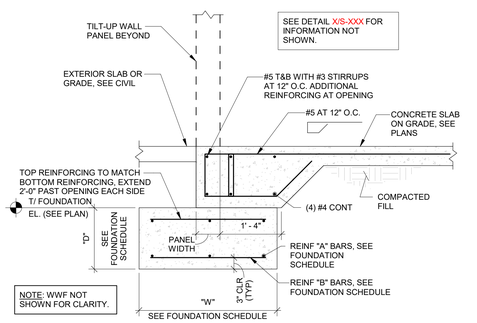
7 TYPICAL STEP FOOTING FOR UTILITES
3/4" = 1'-0"



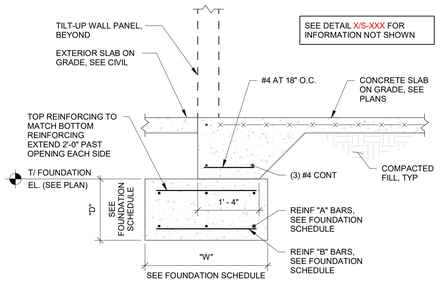
8 TYPICAL STEPPED FOUNDATION
3/4" = 1'-0"



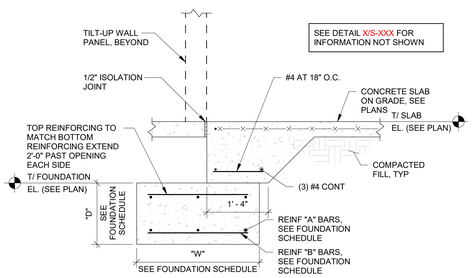
9 TYPICAL STEPPED FOUNDATION (LARGE)
3/4" = 1'-0"



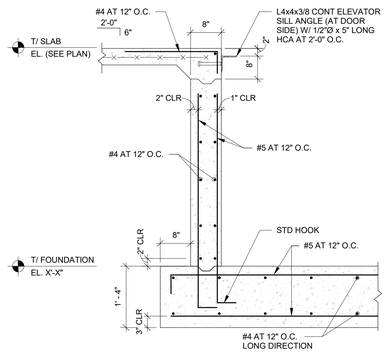
10 TYPICAL WF FOUNDATION AT OPENING
3/4" = 1'-0"



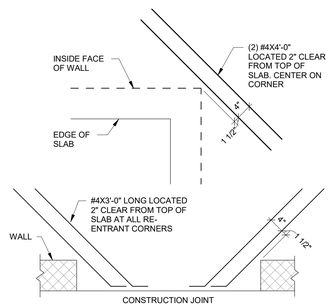
11 TYPICAL WALL FOUNDATION AT EXTERIOR OPENING
3/4" = 1'-0"



12 TYPICAL WALL FOUNDATION AT INTERIOR OPENING
3/4" = 1'-0"



13 TYPICAL CONCRETE WALL AT ELEVATOR PIT (AT DOOR)
3/4" = 1'-0"



14 TYPICAL RE-ENTRANT CORNER REINFORCING
3/4" = 1'-0"

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STRUCTURAL DETAILS

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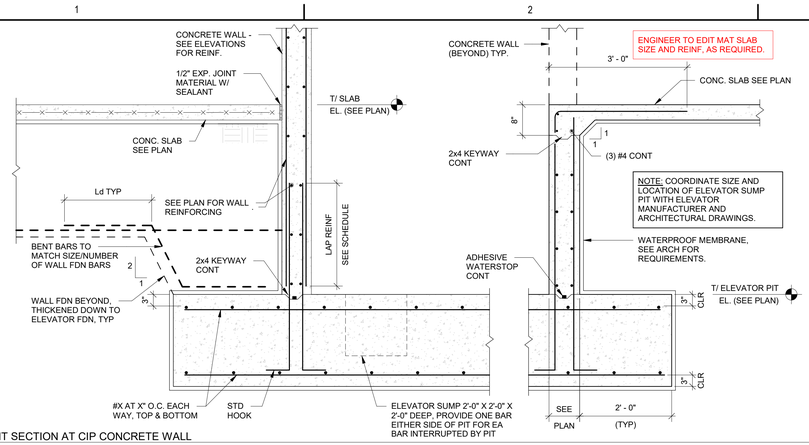
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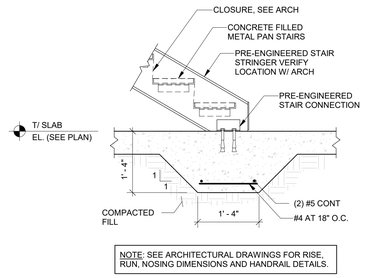
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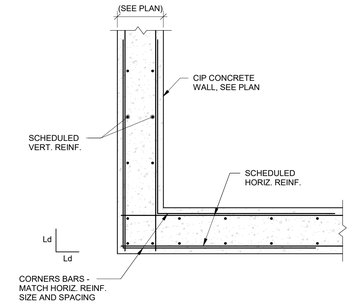
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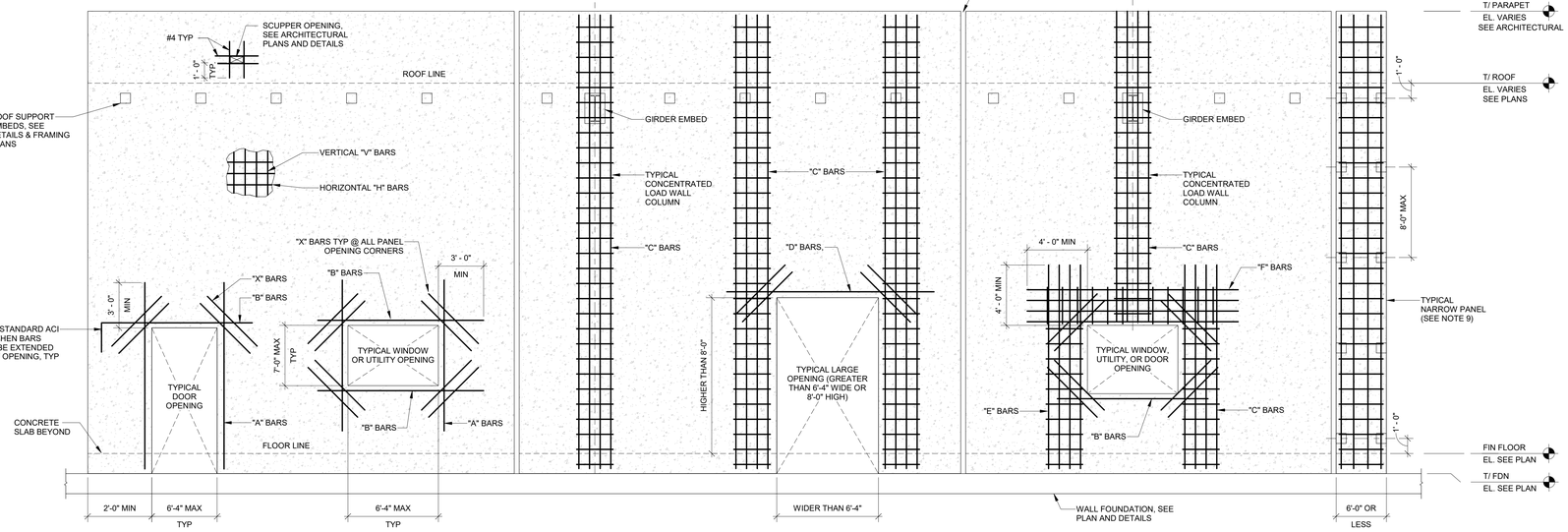
1 TYPICAL ELEVATOR PIT SECTION AT CIP CONCRETE WALL
3/4" = 1'-0"



2 TYPICAL PRE-ENGINEERED STAIR BASE
3/4" = 1'-0"



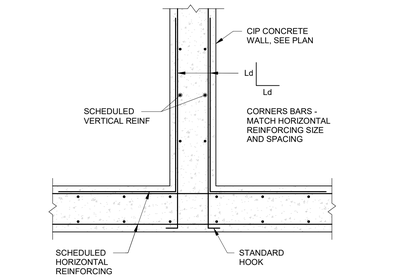
3 TYPICAL CONCRETE WALL REINF AT CORNER
3/4" = 1'-0"



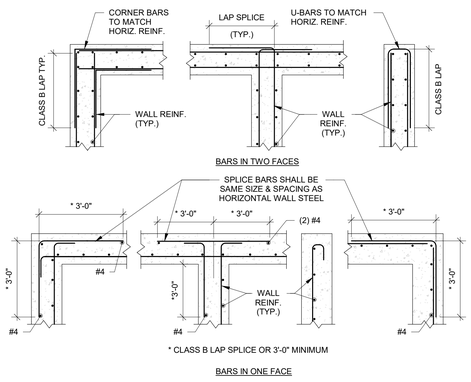
WALL SCHEDULE NOTES:

1. SEE TYPICAL DETAILS FOR SINGLE AND DOUBLE MAT REINFORCING PLACEMENT.
2. SINGLE MAT REINFORCING REQUIRED UNLESS OTHERWISE NOTED.
3. "E" BARS ARE REQUIRED IN WALLS WHERE WALL WIDTH IS LESS THAN 4'-0" BETWEEN OPENINGS OR BETWEEN OPENING AND EDGE OF WALL.
4. "F" BARS ARE REQUIRED OVER OPENINGS 8'-0" WIDE OR LARGER. "F" BARS ARE ALSO REQUIRED WHERE VERTICAL DISTANCE BETWEEN OPENINGS OR TOP OR PANEL IS LESS THAN 4'-0".
5. "C" BARS ARE ADDITIONAL WALL REINFORCING FOR CONCENTRATED LOADS.
6. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING REQUIREMENTS.
7. WHERE WALLS HAVE REBAR EACH FACE "A" AND "B" BARS MAY BE TYPICAL FULL HEIGHT/WIDTH REINFORCING OF SIZE INDICATED FOR "A" AND "B" BARS.

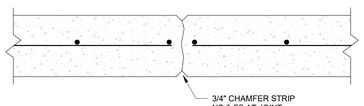
4 CIP CONCRETE WALL SCHEDULE
1/4" = 1'-0"



5 TYPICAL CONCRETE WALL REINF AT T-INTERSECTION
3/4" = 1'-0"

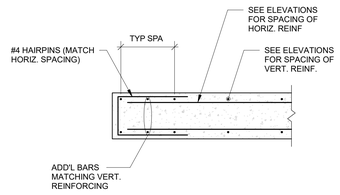


6 TYPICAL REINF ARRANGEMENT AT CONC WALL END, INTERSECTIONS AND CORNERS
3/4" = 1'-0"

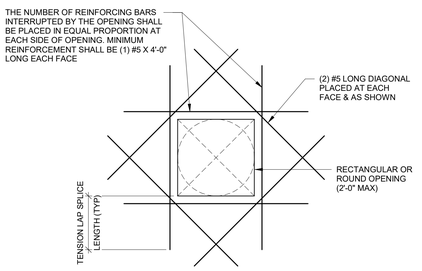


NOTE: PROVIDE CONTROL JOINTS AT 24'-0" O.C. MAX AND 10'-0" MAX FROM CORNERS. PROVIDE CONTROL JOINT AT WALL INTERSECTIONS. COORDINATE LOCATIONS ON EXTERIOR WALLS WITH ARCHITECT.

7 TYPICAL CONCRETE WALL CONTROL JOINT
1 1/2" = 1'-0"



8 TYPICAL CONC WALL REINF AT EDGE OPENING & END OF WALL
3/4" = 1'-0"



NOTE: OPENINGS LESS THAN 5" IN LARGEST DIMENSION THAT DO NOT INTERRUPT REINFORCING DO NOT REQUIRE ADDITIONAL REINFORCEMENT.

9 TYPICAL REINFORCING AT SMALL WALL OPENINGS NOT SHOWN ON ELEVATIONS
3/4" = 1'-0"

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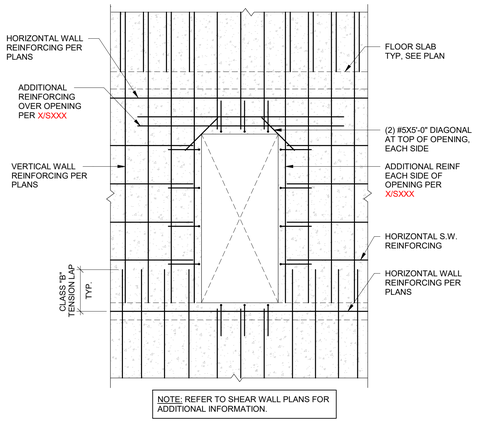
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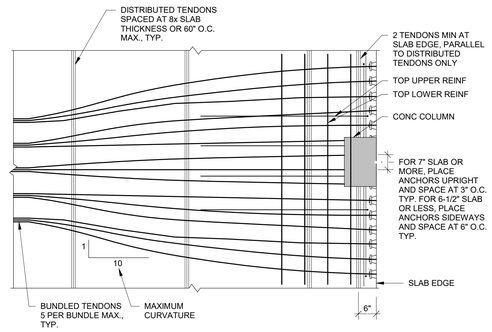
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ODR TASK ORDER NUMBER 010-9-101918

SHEET NUMBER S502

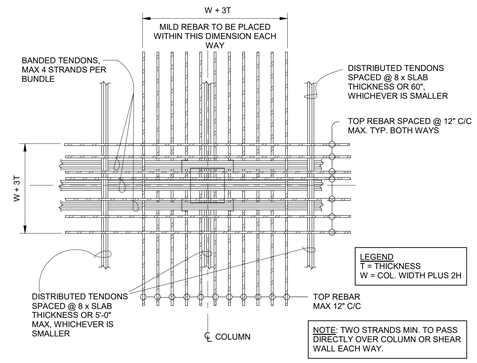
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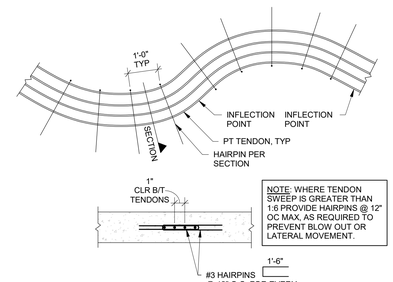
1 TYPICAL CONCRETE WALL OPENING DETAIL
3/4" = 1'-0"



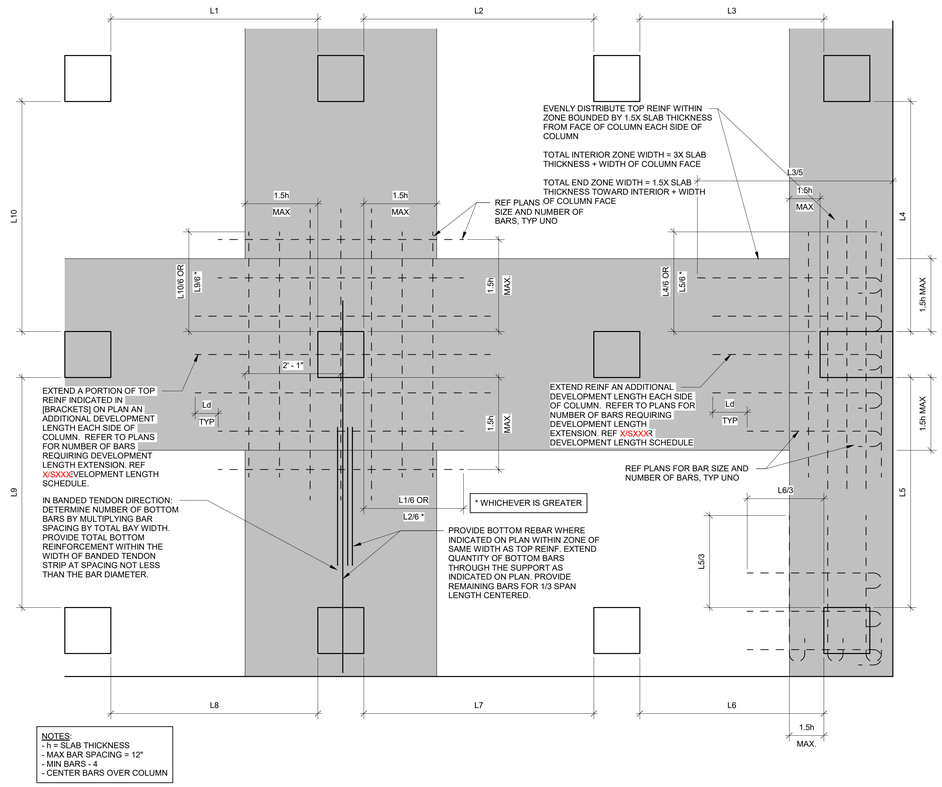
2 TYPICAL REINFORCING AT EXTERIOR SLAB EDGE
3/4" = 1'-0"



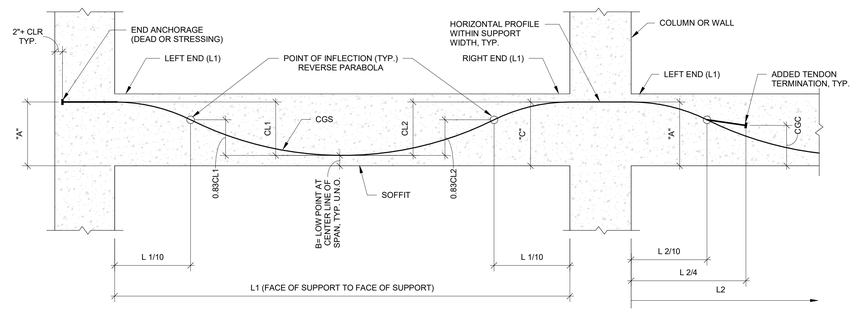
3 TENDON AND REBAR PLAN AT INTERIOR COLUMN
3/4" = 1'-0"



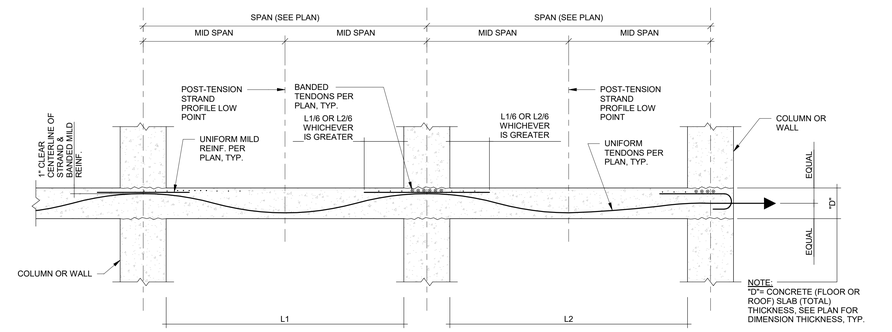
4 PT TENDON SWEEP
1/2" = 1'-0"



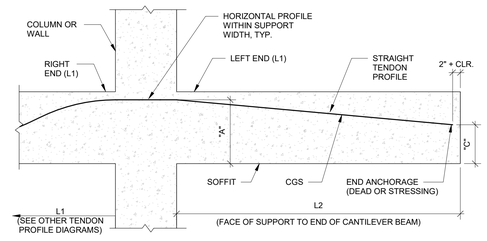
5 PLACING DETAIL FOR MILD REINFORCING IN POST TENSION SLAB
3/4" = 1'-0"



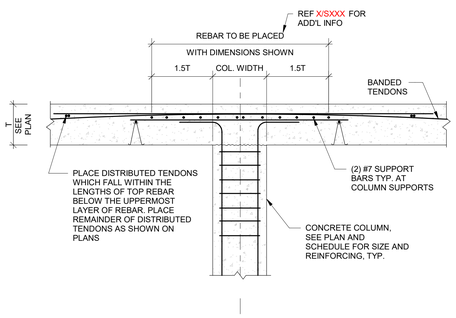
6 TYPICAL POST-TENSION STRAND TENDON CGS PROFILE DIAGRAM (MULTIPLE SPAN)
3/4" = 1'-0"



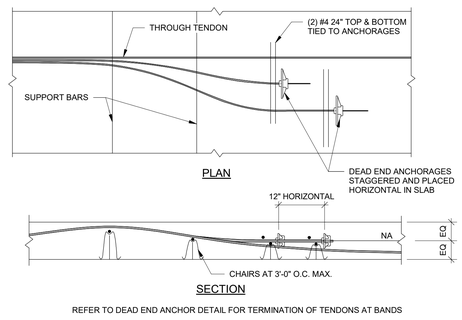
7 TYPICAL POST-TENSION STRAND PROFILE UNIFORM AND MILD REINFORCING DIRECTION
3/4" = 1'-0"



8 TYPICAL POST-TENSION TENDON CGS PROFILE CANTILEVER
3/4" = 1'-0"

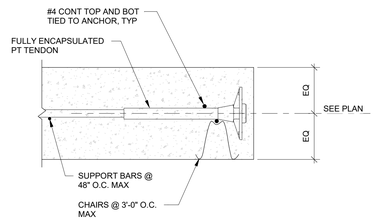


9 TYPICAL COLUMN SLAB SECTION
3/4" = 1'-0"



REFER TO DEAD END ANCHOR DETAIL FOR TERMINATION OF TENDONS AT BANDS

10 PLACEMENT OF ADDED UNIFORM TENDON
3/4" = 1'-0"



11 DEAD END ANCHOR DEVICE AT DISTRIBUTED TENDONS
1 1/2" = 1'-0"

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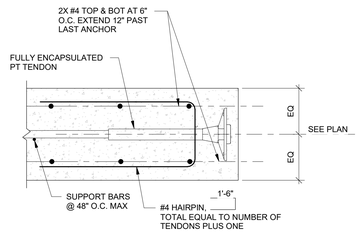
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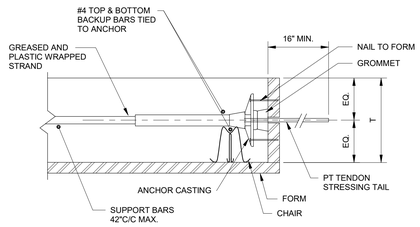
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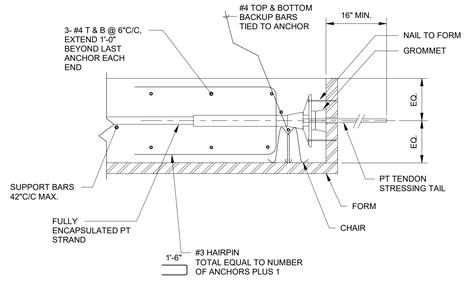
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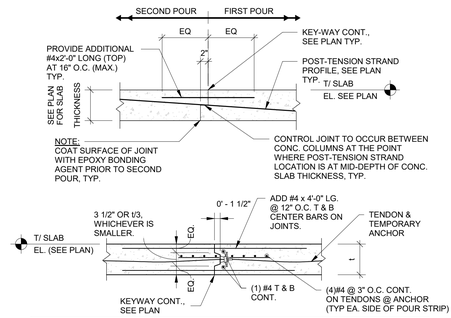
1 DEAD END ANCHOR DEVICE AT BANDED TENDONS
1 1/2" = 1'-0"



2 STRESSING END ANCHOR FOR UNIFORM TENDONS
1 1/2" = 1'-0"

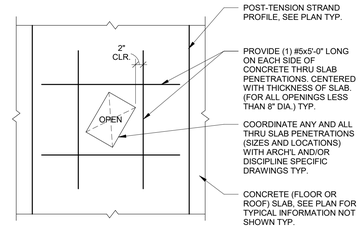


3 STRESSING END ANCHOR FOR BANDED TENDON
1 1/2" = 1'-0"

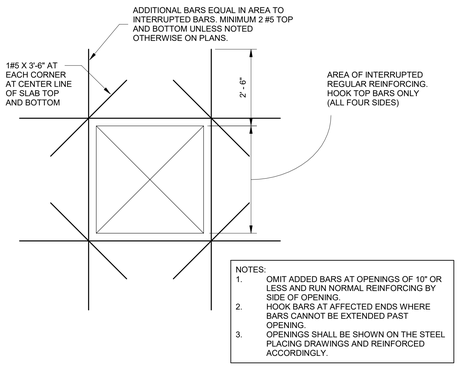


NOTES:
1. SPECIAL SHORING REQUIREMENTS MAY EXIST AS A RESULT OF USING CONSTRUCTION JOINT. CONTACT EOR FOR RECOMMENDATIONS.
2. MAINTAIN TENDON PROFILES THRU JOINT. JOINT SHOULD BE LOCATED WHERE TENDONS ARE APPROXIMATELY MID-DEPTH OF SLAB.
3. OTHER REINF. SPECIFIED ON THE DRAWINGS SHOULD BE CONTINUOUS THRU JOINT.
4. INTERMEDIATE P.T. ANCHORS REQUIRE TENDON PULLS AT JOINT UNLESS SPECIFIED BY P.T. SUPPLIER AND APPROVED BY EOR TO THE CONTRARY.
5. COAT SURFACE OF JOINT WITH EPOXY BONDING AGENT PRIOR TO SECOND POUR, TYP.

4 SLAB CONSTRUCTION JOINT OR TYPICAL PT CONSTRUCTION JOINT
3/4" = 1'-0"

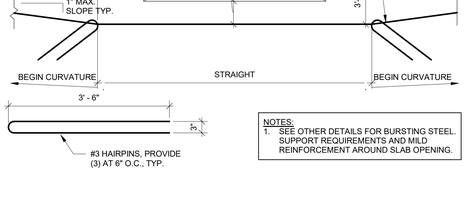


5 SLAB OPENING (8" MAX DIMENSION)
3/4" = 1'-0"



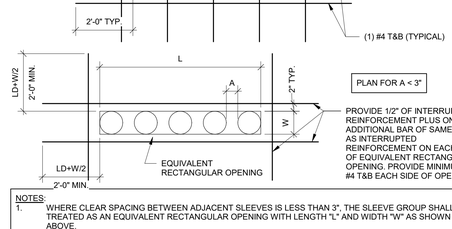
NOTES:
1. OMIT ADDED BARS AT OPENINGS OF 10" OR LESS AND RUN NORMAL REINFORCING BY SIDE OF OPENING.
2. HOOK BARS AT AFFECTED ENDS WHERE BARS CANNOT BE EXTENDED PAST OPENING.
3. OPENINGS SHALL BE SHOWN ON THE STEEL PLACING DRAWINGS AND REINFORCED ACCORDINGLY.

6 TYPICAL REINFORCEMENT AT SLAB OPENING
1/2" = 1'-0"



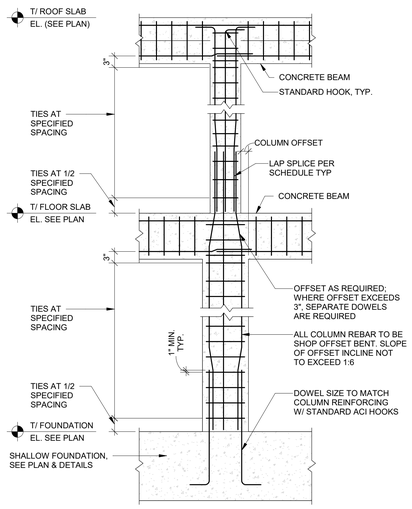
NOTES:
1. SEE OTHER DETAILS FOR BURSTING STEEL. SUPPORT REQUIREMENTS AND MILD REINFORCEMENT AROUND SLAB OPENING.

7 TYPICAL TENDON PLACEMENT AT SLAB OPENING
3/4" = 1'-0"

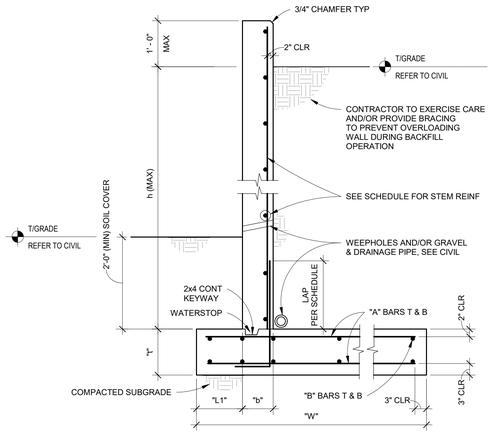


NOTES:
1. WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS LESS THAN 3", THE SLEEVE GROUP SHALL BE TREATED AS AN EQUIVALENT RECTANGULAR OPENING WITH LENGTH "L" AND WIDTH "W" AS SHOWN ABOVE.
2. WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS GREATER THAN OR EQUAL TO 3", SCHEDULED SLAB BAR REINFORCEMENT SHALL BE OFFSET AS REQUIRED TO MISS SLEEVES.
3. REINFORCEMENT SHOWN IS ADDITIONAL TO SCHEDULED SLAB REINFORCEMENT.
4. SCHEDULED SLAB MESH REINFORCEMENT MAY BE MAY BE CUT AS REQUIRED TO MISS PIPE SLEEVES.
5. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF SLEEVES.
6. ISOLATED PIPE SLEEVES THAT ARE SMALLER THAN 5" AND DO NOT INTERRUPT REINFORCING DO NOT REQUIRE THE USE OF THIS DETAIL.
7. THIS DETAIL SHOULD NOT BE USED FOR OPENING GROUPS WITH DIAMETERS LARGER THAN 12". CONSULT ENGINEER FOR FRAMING OF SUCH CONDITIONS.

8 TYPICAL ADDITIONAL REINFORCING AROUND PIPE SLEEVES
3/4" = 1'-0"

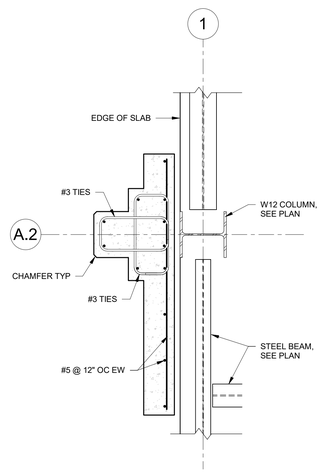


9 TYPICAL MULTI-STORY CONCRETE COLUMN
3/4" = 1'-0"



RETAINING WALL SCHEDULE								
MARK	(h) MAX	W	L1	t	FOUNDATION REINFORCEMENT A	FOUNDATION REINFORCEMENT B	b	STEM REINFORCEMENT
RW-1	—	10'-0"	—	2'-0"	#8@12"	9-#8 CONT	18"	#8@12" VERTICAL #8@12" HORIZONTAL

10 CONC RETAINING WALL SECTION AND SCHEDULE
3/4" = 1'-0"



11 ARCHITECTURAL CONCRETE DETAIL
3/4" = 1'-0"

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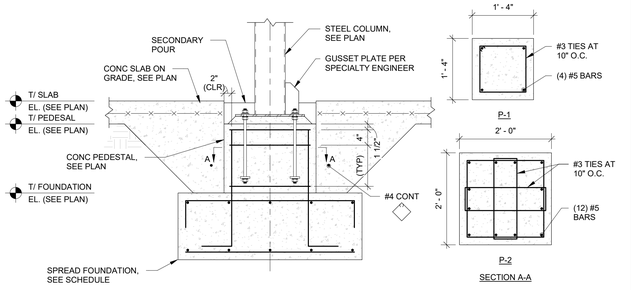
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SHEET NUMBER
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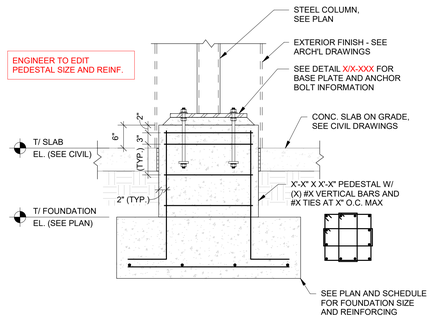
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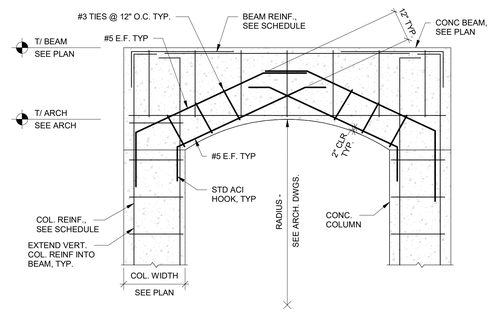
NOTE:
1. COORDINATE STIRRUP AND VERTICAL BAR LAYOUT WITH BASE PLATE.
2. PEDESTAL CENTERED ON COLUMN, UNO.
3. BRACE NOT SHOWN FOR CLARITY, REFER TO FRAME ELEVATIONS FOR BRACE SIZE AND DESIGN LOAD.
4. REFER TO DETX/S-XXX FOR COLUMN FOUNDATION SIZE AND REINFORCING.

NOTE: ENGINEER TO MODIFY GUSSET PLATE CALLOUT AND NOTE 3 IF CONNECTIONS ARE NOT DELEGATED

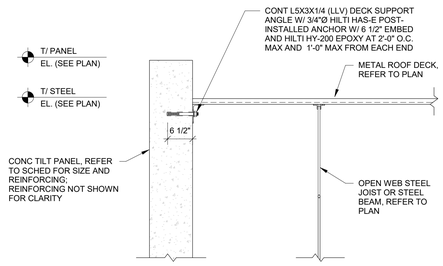
1 TYPICAL CONCRETE PEDESTAL DETAIL
3/4" = 1'-0"



2 TYPICAL PEDESTAL DETAIL AT EXTERIOR COLUMN
3/4" = 1'-0"



3 TYPICAL ARCHED OPENING DETAIL AT CONC. COLUMN
1/2" = 1'-0"



NOTE:
1. MAINTAIN MIN 12" EDGE DISTANCE FOR POST INSTALLED TO TILT PANEL EDGES AND JOINTS.
2. SPLICE CONT DECK SUPPORT ANGLE PER TYPICAL DETAIL.
3. DECK SUPPORT ANGLE TO BE INSTALLED TO MATCH ROOF SLOPE AND JOIST CAMBER.

4 TYPICAL DETAIL ROOF DECK SUPPORT ANGLE AT TILT WALL
3/4" = 1'-0"

TYPICAL BEAM

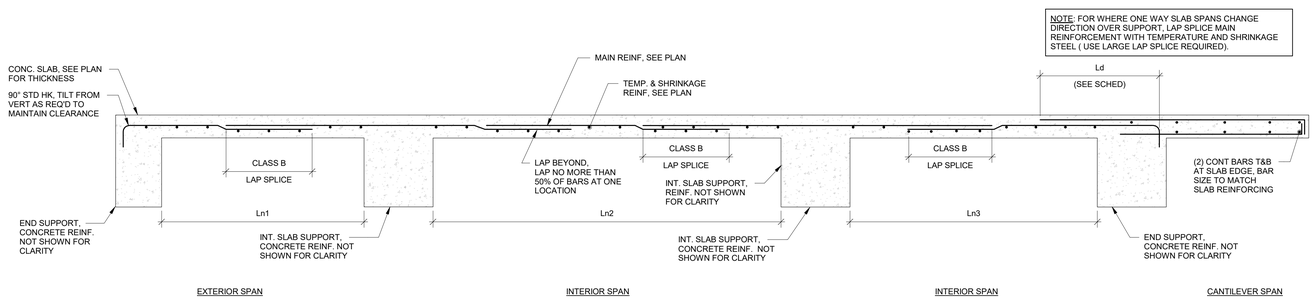
CAST IN PLACE CONCRETE BEAM SCHEDULE

BEAM DESIGNATION	SIZE		REINFORCING				STIRRUPS		"F" BARS	"X"	"G" BARS	"Y"	NOTES
	"A"	"B"	TOP BARS	BOT BARS	"C" BARS	"E" BARS	SPACING EACH END U.N.O.	SPACING INTERMED					
CB-X	X"	X"	(X) #X	(X) #X	(X) #X	(X) #X	#X @ X"	#X @ X"	(X) #X	X"	(X) #X	X"	

NOTES:
"F" - REVERSAL BARS - OVER COLUMN HEADS AT DISCONTINUOUS ENDS
"G" - REVERSAL BARS - OVER COLUMN HEADS AT INTERIOR SUPPORTS
"C" - TOP BARS AT DISCONTINUOUS ENDS
"E" - TOP BARS AT INTERIOR SUPPORTS
"TOP BARS" - EXTEND TO 1/2 POINT OF ADJACENT SPAN U.N.O. AND LAP SPLICE PER SPLICE SCHEDULE IN STRUCTURAL NOTES

5 TYPICAL CAST IN PLACE CONCRETE BEAM DIAGRAM AND SCHEDULE
3/4" = 1'-0"

NOTE: FOR WHERE ONE WAY SLAB SPANS CHANGE DIRECTION OVER SUPPORT, LAP SPLICE MAIN REINFORCEMENT WITH TEMPERATURE AND SHRINKAGE STEEL (USE LARGE LAP SPLICE REQUIRED).



6 ONE WAS SLAB REINFORCEMENT DETAIL
3/4" = 1'-0"

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C	60% CDs	
D	90% CDs	
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St. Thomas, US. Virgin Islands 00802

STRUCTURAL DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 04.06.2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
S513

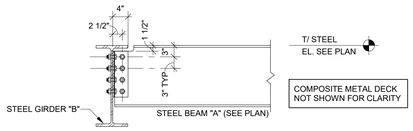
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FLOOR BEAM TO GIRDER CONNECTION SCHEDULE			
BEAM SIZE (SEE PLAN)	ANGLE SIZE	NO. OF 7/8"Ø A325-N BOLTS IN BEAM "A"	NO. OF 7/8"Ø A325-N BOLTS IN GIRDER "B"
W8/W10	2L4x4x3/8 x 0'-6"	2	4
W12/W14	2L4x4x3/8 x 0'-9"	3	6
W16/W18	2L4x4x3/8 x 1'-0"	4	8
W21	2L4x4x3/8 x 1'-3"	5	10
W24	2L4x4x3/8 x 1'-6"	6	12

NOTES:

1. SEE SCHEDULE ABOVE FOR NUMBER OF BOLTS (3" GA.)
2. TABULATED VALUES ARE VALID FOR BEAMS WITH STANDARD OR SHORT-SLOTTED HOLES, FULLY TIGHTENED OR SNUG TIGHT
3. COPE BEAM FLANGE AS REQUIRED, TOP & BOTTOM (REINFORCE WHERE REQUIRED TO SUSTAIN AISC SPECIFIED CAPACITY)



1 TYPICAL FLOOR BEAM TO GIRDER CONNECTION
3/4" = 1'-0"

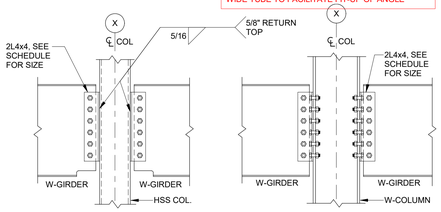
FLOOR GIRDER CONNECTION TO STEEL COLUMN		
BEAM SIZE (SEE PLAN)	NO. OF 7/8" DIA. A325-N BOLTS	ANGLE SIZE
W8/W10	2	2L4x4x3/8 x 0'-6"
W12/W14	3	2L4x4x3/8 x 0'-9"
W16/W18	4	2L4x4x3/8 x 1'-0"
W21	5	2L4x4x3/8 x 1'-3"
W24	6	2L4x4x3/8 x 1'-6"
W27	7	2L4x4x3/8 x 1'-9"
W30	8	2L4x4x3/8 x 2'-0"
W33	9	2L4x4x3/8 x 2'-3"
W36	10	2L4x4x3/8 x 2'-6"

NOTES:

1. WHERE GIRDER CONNECTIONS FRAME INTO COLUMN WEB FROM BOTH SIDES, EXTEND CONNECTION ONE SIDE BY ONE EXTRA BOLT ROW FOR ERECTION.
2. L4x3 ANGLES MAY BE USED AT SMALLER COLUMNS TO FACILITATE CONNECTION FIT-UP.
3. CONNECTION ANGLES MAY BE SHOP WELDED TO W-COLUMNS.
4. COPE BEAM/GIRDER FLANGES AS REQ'D.

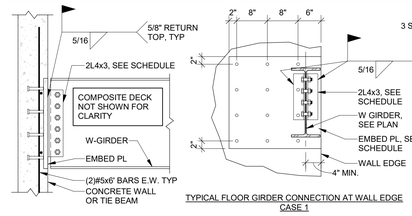
COMPOSITE METAL DECK NOT SHOWN FOR CLARITY

NOTE TO ENGINEER: DOUBLE ANGLE CONNECTION REQUIRES GREATER THAN A 6" WIDE TUBE TO FACILITATE FIT-UP OF ANGLE

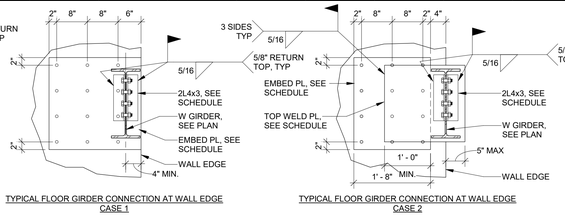


2 TYPICAL FLOOR BEAM/GIRDER TO COLUMN CONNECTION
3/4" = 1'-0"

FLOOR GIRDER CONNECTION TO CONCRETE WALL												
GIRDER SIZE (SEE PLAN)	NO. OF 7/8"Ø A325N BOLTS	ANGLE SIZE	AT TYPICAL CONDITION				NEAR WALL EDGE					
			EMBED PL	HEADED STUD ANCHORS	MAXIMUM ALLOWABLE END REACTION (ASD)		EMBED PL CASE 1	EMBED PL CASE 2	HEADED STUD ANCHORS CASE 1 & 2	TOP WELD PL CASE 2	MAXIMUM ALLOWABLE END REACTION (ASD)	
					STUD L=4"	STUD L=6" STUD L=8"					STUD L=4"	STUD L=6" STUD L=8"
W12/W14	3	2L4x3x3/8 x 0'-9"	5/8"x16"x1'-6"	(12) 3/4" DIA.	39	50 63	5/8"x24"x1'-9"	5/8"x20"x1'-9"	(12) 3/4" DIA.	3/4"x1'-8"x1'-3"	4.7	5.3 6.0
W16/W18	4	2L4x3x3/8 x 1'-0"	5/8"x16"x1'-9"	(12) 3/4" DIA.	45	56 71	5/8"x24"x2'-0"	5/8"x20"x2'-0"	(12) 3/4" DIA.	3/4"x1'-8"x1'-6"	5.3	6.0 6.7
W21	5	2L4x3x3/8 x 1'-3"	5/8"x16"x2'-0"	(15) 3/4" DIA.	50	63 78	5/8"x24"x2'-3"	5/8"x20"x2'-3"	(15) 3/4" DIA.	3/4"x1'-8"x1'-9"	6.0	7.3 7.7
W24	6	2L4x3x3/8 x 1'-6"	3/4"x16"x2'-3"	(15) 3/4" DIA.	57	70 85	3/4"x24"x2'-6"	3/4"x20"x2'-6"	(15) 3/4" DIA.	3/4"x1'-8"x2'-0"	6.7	8.0 8.7
W27	7	2L4x3x3/8 x 1'-9"	3/4"x16"x2'-6"	(18) 3/4" DIA.	63	77 92	3/4"x24"x2'-9"	3/4"x20"x2'-9"	(18) 3/4" DIA.	3/4"x1'-8"x2'-3"	7.3	8.7 9.3
W30	8	2L4x3x3/8 x 2'-0"	3/4"x16"x2'-9"	(18) 3/4" DIA.	69	83 98	3/4"x24"x3'-0"	3/4"x20"x3'-0"	(18) 3/4" DIA.	3/4"x1'-8"x2'-6"	8.0	9.3 10.0
W33	9	2L4x3x3/8 x 2'-3"	3/4"x16"x3'-0"	(21) 3/4" DIA.	74	88 103	3/4"x24"x3'-3"	3/4"x20"x3'-3"	(21) 3/4" DIA.	3/4"x1'-8"x2'-9"	8.7	10.7 11.3
W36	10	2L4x3x3/8 x 2'-6"	3/4"x16"x3'-3"	(21) 3/4" DIA.	80	94 110	3/4"x24"x3'-6"	3/4"x20"x3'-6"	(21) 3/4" DIA.	3/4"x1'-8"x3'-0"	9.3	11.3 12.0



TYPICAL FLOOR GIRDER CONNECTION AT WALL EDGE
CASE 1



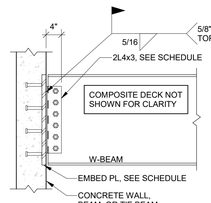
TYPICAL FLOOR GIRDER CONNECTION AT WALL EDGE
CASE 2

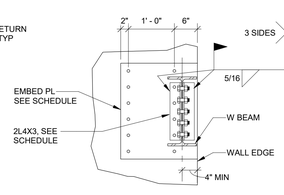
NOTES:

1. SEE SCHEDULE ABOVE FOR NUMBER OF BOLTS (3" GA.)
2. CONNECTIONS ARE VALID FOR GIRDERS WITH STANDARD OR SHORT- SLOTTED HOLES, FULLY TIGHTENED OR SNUG TIGHT.
3. LENGTH OF HEADED STUDS SHALL BE 4" FOR WALLS 5.5" TO 7.25" THICK, 6" FOR WALLS 7.5" TO 9.5" THICK, AND 8" FOR WALLS 10" OR THICKER.
4. HEADED STUDS SHALL BE ARRANGED IN ROWS OF THREE, W/ 2" EDGE DISTANCE TYPICAL.
5. THIS DETAIL APPLIES AT TILT-UP AND CIP CONCRETE WALLS, CONCRETE BEAMS/COLUMNS, AND TIE BEAMS IN MASONRY WALLS.
6. CASE 1 WALL EDGE CONDITION SHALL APPLY WHENEVER BEAM CENTERLINE IS LESS THAN 12", BUT MORE THAN 4", FROM WALL EDGE.
7. CASE 2 WALL EDGE CONDITION SHALL APPLY WHENEVER BEAM CENTERLINE IS LESS THAN 4" FROM EDGE OF WALL.
8. NOTIFY THE ENGINEER IF THE BEAM CENTERLINE LIES OUTSIDE WALL EDGE.
9. MAXIMUM ALLOWABLE REACTIONS ARE BASED ON 4000 PSI CRACKED CONCRETE USING ACI 318 APPENDIX D METHOD.
10. PROVIDE (2)#5x6' BARS EACH WAY UNDER EACH EMBED.

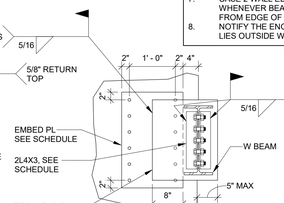
3 TYPICAL FLOOR GIRDER TO CONCRETE WALL CONNECTION
3/4" = 1'-0"

FLOOR BEAM CONNECTION TO CONCRETE WALL									
BEAM SIZE (SEE PLAN)	NO. OF 7/8"Ø A325N BOLTS	ANGLE SIZE	AT TYPICAL CONDITION		NEAR WALL EDGE				MAXIMUM ASD ALLOWABLE END REACTION (KIPS)
			EMBED PL	HEADED STUD ANCHORS	EMBED PL CASE 1	EMBED PL CASE 2	HEADED STUD ANCHORS CASE 1 & 2	TOP WELD PL CASE 2	
W8/W10	2	2L4x3x3/8 x 0'-6"	5/8"x12"x1'-4"	(6) 3/4" DIA.	1/2"x20"x1'-6"	1/2"x16"x1'-6"	(8) 3/4" DIA.	1/2"x1'-5"x1'-0"	38
W12/W14	3	2L4x3x3/8 x 0'-9"	5/8"x12"x1'-6"	(6) 3/4" DIA.	1/2"x20"x1'-9"	1/2"x16"x1'-9"	(10) 3/4" DIA.	5/8"x1'-5"x1'-3"	60
W16/W18	4	2L4x3x3/8 x 1'-0"	5/8"x12"x1'-8"	(8) 3/4" DIA.	5/8"x20"x2'-0"	5/8"x16"x2'-0"	(10) 3/4" DIA.	3/4"x1'-5"x1'-6"	68
W21	5	2L4x3x3/8 x 1'-3"	5/8"x12"x1'-10"	(10) 3/4" DIA.	5/8"x20"x2'-4"	5/8"x16"x2'-4"	(12) 3/4" DIA.	3/4"x1'-5"x1'-9"	72
W24	6	2L4x3x3/8 x 1'-6"	3/4"x12"x2'-0"	(10) 3/4" DIA.	3/4"x20"x2'-6"	3/4"x16"x2'-6"	(14) 3/4" DIA.	3/4"x1'-5"x2'-0"	76





TYPICAL ROOF BEAM CONNECTION AT WALL EDGE
CASE 1

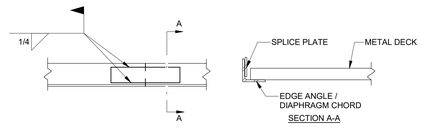


TYPICAL ROOF BEAM CONNECTION AT WALL EDGE
CASE 2

NOTES:

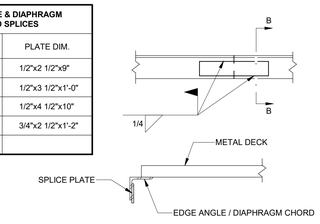
1. SEE SCHEDULE FOR NUMBER OF BOLTS (3" GA.)
2. CONNECTIONS ARE VALID FOR BEAMS WITH STANDARD OR SHORT- SLOTTED HOLES, FULLY TIGHTENED OR SNUG TIGHT.
3. LENGTH OF HEADED STUDS SHALL BE 4" FOR WALLS 5.5" TO 7.25" THICK, 6" FOR WALLS 7.5" TO 9.5" THICK, AND 8" FOR WALLS 10" OR THICKER.
4. HEADED STUDS SHALL BE ARRANGED IN ROWS OF TWO, W/ 2" TYP. EDGE DISTANCE.
5. THIS DETAIL APPLIES AT TILT-UP AND CIP CONCRETE WALLS, CONCRETE BEAMS/COLUMNS, AND TIE BEAMS IN MASONRY WALLS.
6. CASE 1 WALL EDGE CONDITION SHALL APPLY WHENEVER BEAM CENTERLINE IS LESS THAN 12", BUT MORE THAN 4", FROM WALL EDGE.
7. CASE 2 WALL EDGE CONDITION SHALL APPLY WHENEVER BEAM CENTERLINE IS LESS THAN 4" FROM EDGE OF WALL.
8. NOTIFY THE ENGINEER IF THE BEAM CENTERLINE LIES OUTSIDE WALL EDGE.

4 TYPICAL FLOOR BEAM TO CONCRETE WALL CONNECTION
3/4" = 1'-0"



SECTION A-A

EDGE ANGLE & DIAPHRAGM CHORD SPLICES	
ANGLE	PLATE DIM.
L3x3x1/4	1/2"x2 1/2"x9"
L4x4x1/4	1/2"x3 1/2"x1'-0"
L5x3x1/4 LLV	1/2"x4 1/2"x10"
L5x3x1/4 LLH	3/4"x2 1/2"x1'-2"



SECTION B-B

5 TYPICAL DIAPHRAGM CHORD SPLICE
1 1/2" = 1'-0"

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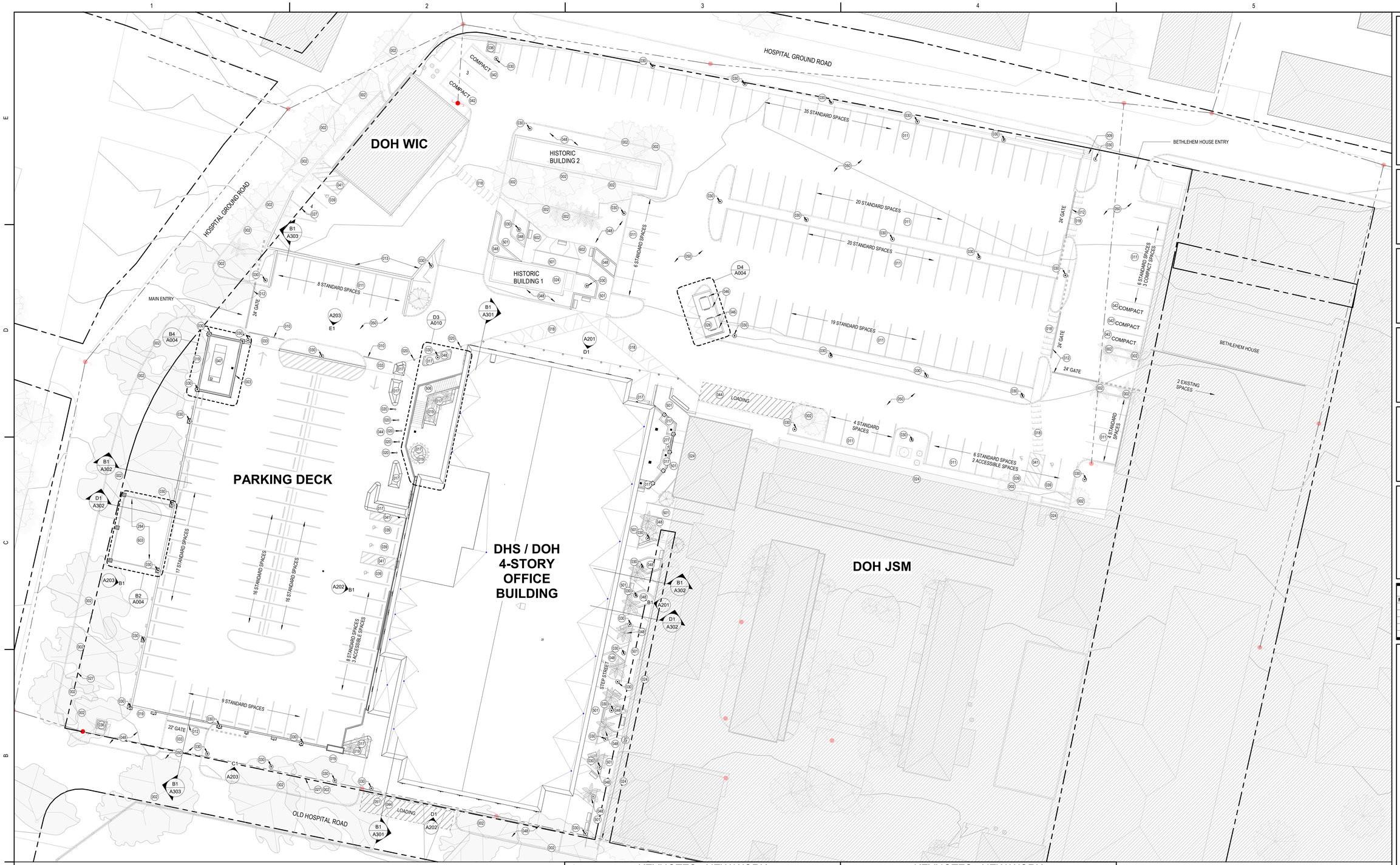
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A1 ARCHITECTURAL SITE PLAN

A001 1" = 20'-0"

PARKING ALLOCATION

DHS Code:	136
DHS Fleet:	50
DOH Code:	22
DOH Fleet:	49
DOH WIC:	7
DOH JSM:	32
CC BH:	7

TOTAL REQUESTED: 303

PARKING SUMMARY

UPPER DECK: 69
LOWER DECK: 71
SURFACE: 142

TOTAL PROVIDED: 282
[TOTAL ACCESSIBLE: 9]

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
002	EXISTING TREE LOCATION. PROTECT FOR DURATION OF CONSTRUCTION
003	GENERATOR ENCLOSURE
009	CAST IN PLACE SITE STAIR WITH RAILINGS - SEE CIVIL
010	CONNECT DRAINAGE PIPING TO STORMWATER SYSTEM - SEE CIVIL
011	ON GRADE PARKING AREA - SEE CIVIL
012	MOTORIZED VEHICLE ACCESS GATE - SEE CIVIL
013	RECONFIGURED RETAINING WALL - SEE CIVIL AND STRUCTURAL
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
018	PEDESTRIAN CROSSWALK
019	SPECIALTY LIGHTING - BUILDING SIGNAGE & LANDSCAPING
020	BOLLARD WITH LIGHTING
024	EXISTING STRUCTURE TO BE PROTECTED AT ALL TIMES DURING ADJACENT DEMOLITION AND CONSTRUCTION
025	EXISTING HISTORIC WALL TO BE PROTECTED AT ALL TIMES DURING ADJACENT DEMOLITION AND CONSTRUCTION
026	DUMPSTER ENCLOSURE
027	PROPERTY LINE
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
033	PARKING DECK ENTRY RAMP
036	NEW TRANSFORMER ON CONCRETE PAD
039	HANDICAP PARKING SPACE
041	HANDICAP LOADING ZONE
042	COMPACT PARKING SPACE
044	PASSENGER LOADING ZONE
046	BOLLARD – SEE CIVIL
047	GENERATOR; SEE ELECTRICAL

KEYNOTES - NEW WORK

048	NATURAL AREA
050	DRIVEWAY PAVING - SEE CIVIL
051	PROPOSED LOCATION OF VITRAN BUS STOP
200 - ROOF & EXTERIOR	
277	OUTDOOR KITCHEN AREA WITH SINK AND BARBECUE GRILL - SEE ENLARGED PLANS/ELEVATIONS
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE
500 - VERTICAL CIRCULATION	
501	CAST IN PLACE CONCRETE RAMP WITH ANODIZED ALUMINUM RAILING TO MEET ADA GUIDELINES WITH 1:12 MAXIMUM SLOPE.
506	ANODIZED ALUMINUM HANDRAIL
600 - COORDINATION	
602	CAST IN PLACE CONCRETE PATIO - SEE STRUCTURAL
603	MECHANICAL EQUIPMENT YARD - COORDINATE DRAINAGE & EQUIPMENT WITH MECHANICAL DRAWINGS

SITE SYMBOL LEGEND

- PLOT PROPERTY LINE
- SETBACK LINE
- SEWER LINE
- FENCE CHAINLINK LINE
- ELECTRIC LINE
- UNMARKED CORNER
- CONCRETE MONUMENT (FOUND)
- UTILITY POLE

NORTH

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St. Thomas, US. Virgin Islands 00802

ARCHITECTURAL SITE PLAN

REVISIONS:

No.	Description	Date

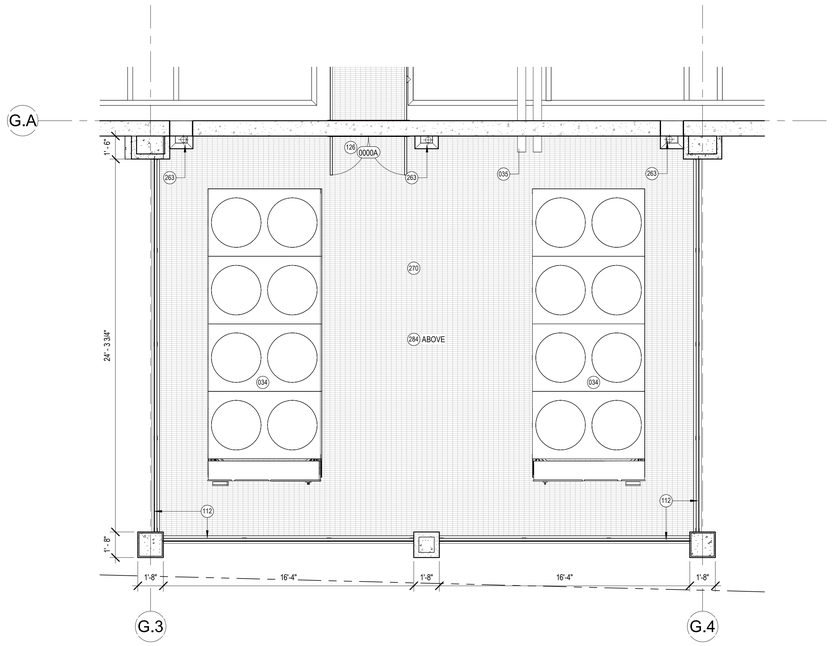
DRAWN BY: Author
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DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

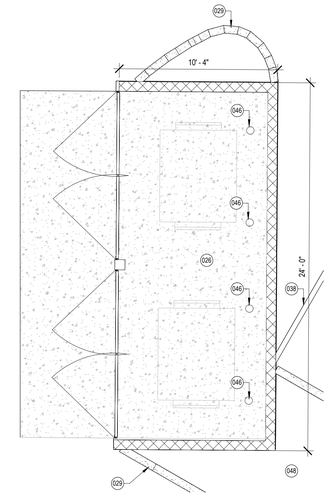
SHEET NUMBER
A001

B: 30% CONSTRUCTION DOCUMENTS

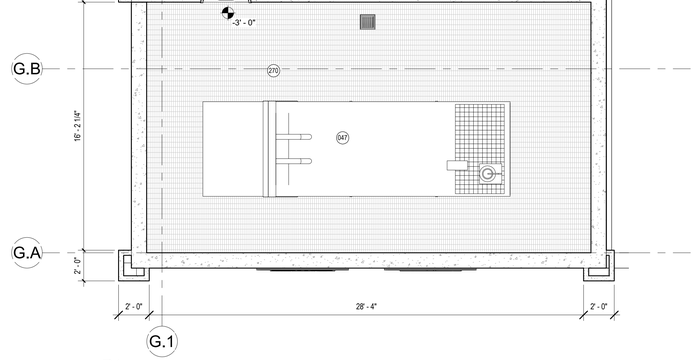
NOT FOR CONSTRUCTION



B2 ENLARGED PLAN - CHILLER ENCLOSURE PLAN
A004 1/4" = 1'-0"



D4 ENLARGED PLAN - DUMPSTER ENCLOSURE
A004 1/4" = 1'-0"



B4 ENLARGED PLAN - GENERATOR ENCLOSURE
A004 1/4" = 1'-0"

KEYNOTES - NEW WORK

000 - SITE	
026	DUMPSTER ENCLOSURE
029	CURB AT EDGE OF PAVING - SEE CIVIL DRAWINGS
034	CHILLER EQUIPMENT AS SPECIFIED BY MEP
035	CHILLER PIPING - SEE MEP
038	PARKING STRIPING
046	BOLLARD – SEE CIVIL
047	GENERATOR; SEE ELECTRICAL
048	NATURAL AREA
100 - WALLS AND OPENINGS	
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
126	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
200 - ROOF & EXTERIOR	
263	ROOF DRAIN WALL SCUPPER WITH COLLECTORHEAD, HEAVY GUAGE ALUMINUM DOWNSPOUT - CONNECT TO UNDERGROUND PIPING - SEE CIVIL
270	OPEN METAL GRATE FLOORING OVER GRADE
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

NORTH

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D	90% CDs	
E	100% CDs	

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ENLARGED PLANS

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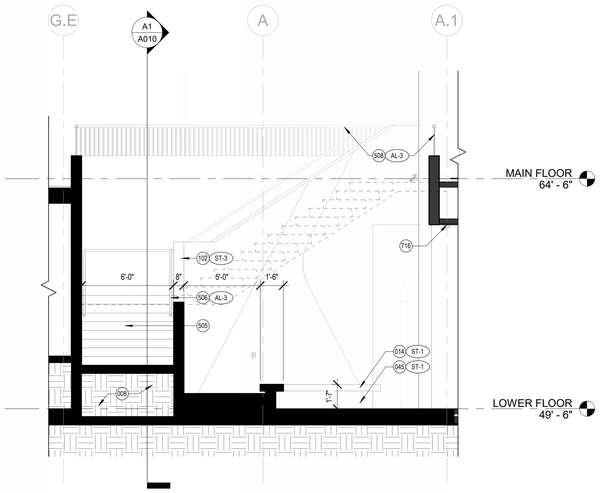
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NOVUS JOB NUMBER
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ODR TASK ORDER NUMBER
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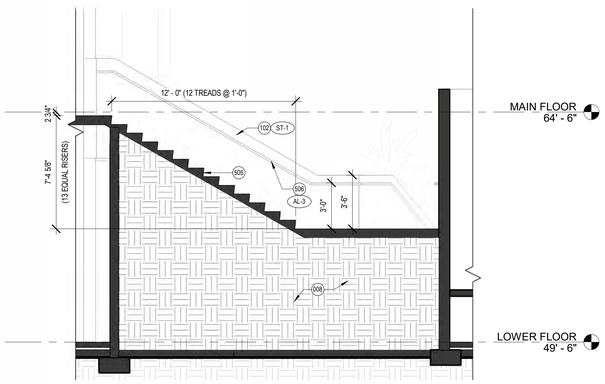
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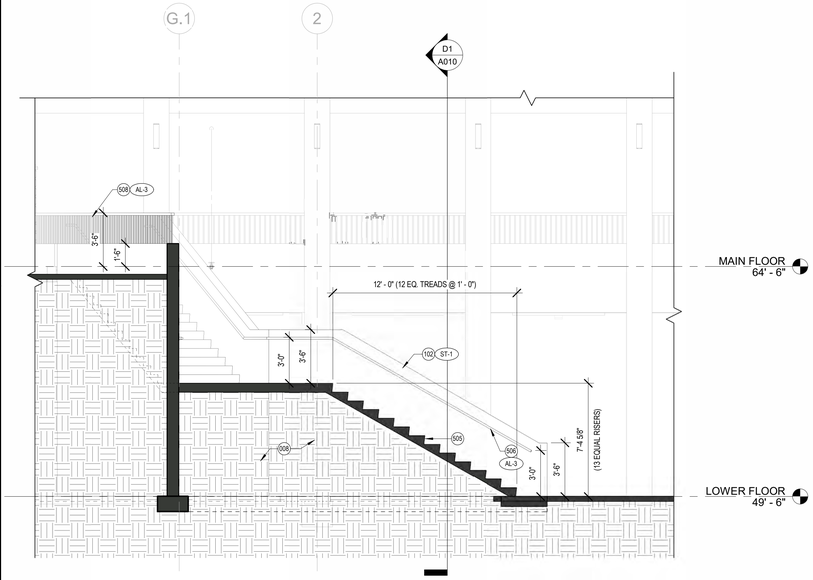
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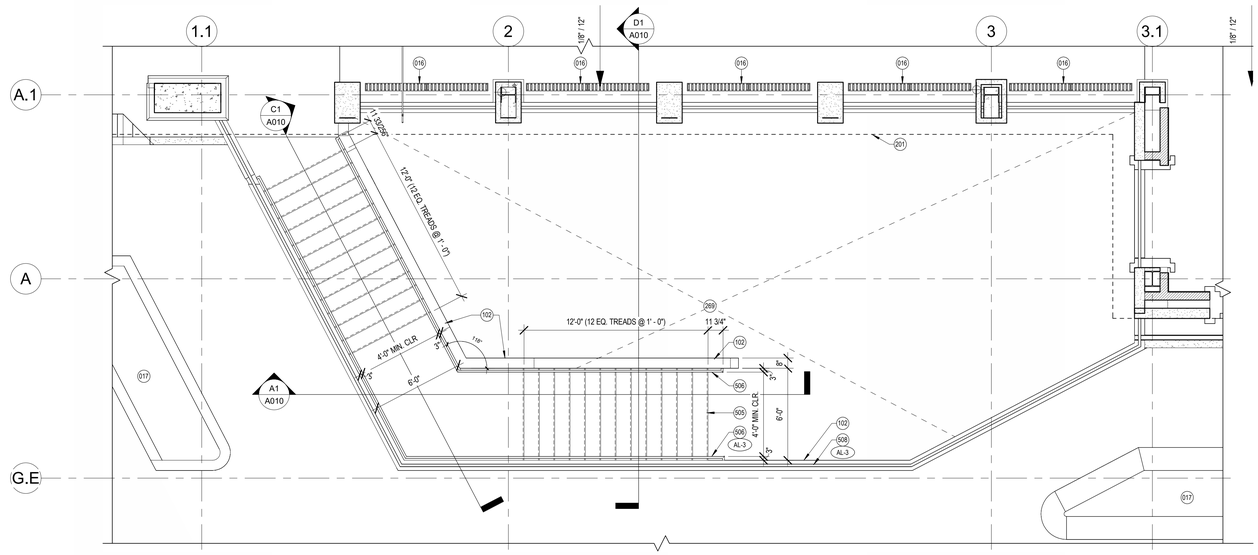
D1 SECTION C - NORTH STAIR
A010 1/4" = 1'-0"



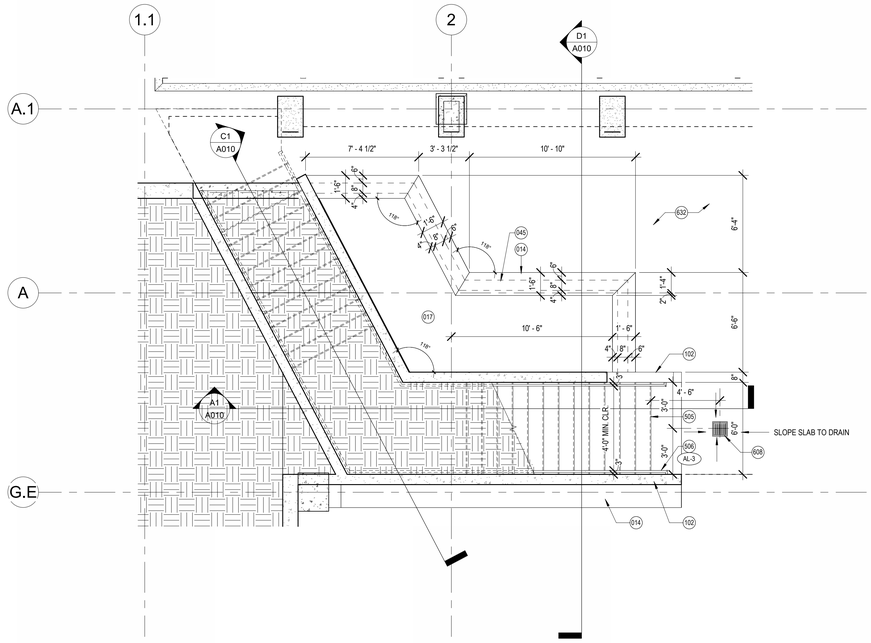
C1 SECTION B - NORTH STAIR1
A010 1/4" = 1'-0"



A1 SECTION A - NORTH STAIR
A010 1/4" = 1'-0"



D3 ENLARGED PLAN - NORTH STAIR LOWER FLOOR1
A010 1/4" = 1'-0"



B3 ENLARGED PLAN - NORTH STAIR LOWER FLOOR
A010 1/4" = 1'-0"

FINISH SELECTIONS - EXTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
100 - WALLS AND OPENINGS				
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT		
CLADDING				
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE		
ST-3	(3 COLORS - TBD) SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - MULTICOLOR		

KEYNOTES - NEW WORK

000 - SITE	
008	BACKFILL
014	CAST IN PLACE CONCRETE BENCH
016	TRENCH DRAIN - REFER TO CIVIL/ PLUMBING
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
045	CONCRETE WALL BELOW CONCRETE BENCH
100 - WALLS AND OPENINGS	
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
200 - ROOF & EXTERIOR	
201	OUTLINE OF STRUCTURE ABOVE
269	LIGHT WELL AND EXTERIOR STAIR - SLAB OPENING TO LEVEL BELOW
500 - VERTICAL CIRCULATION	
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
506	ANODIZED ALUMINUM HANDRAIL
508	ANODIZED ALUMINUM GUARDRAIL
600 - COORDINATION	
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
632	SLAB ON GRADE
700 - RCP	
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

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EXTERIOR STAIR NORTH

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

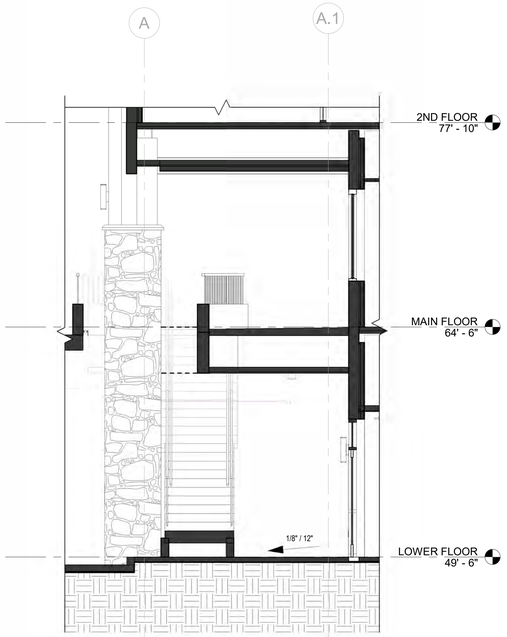
NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A010

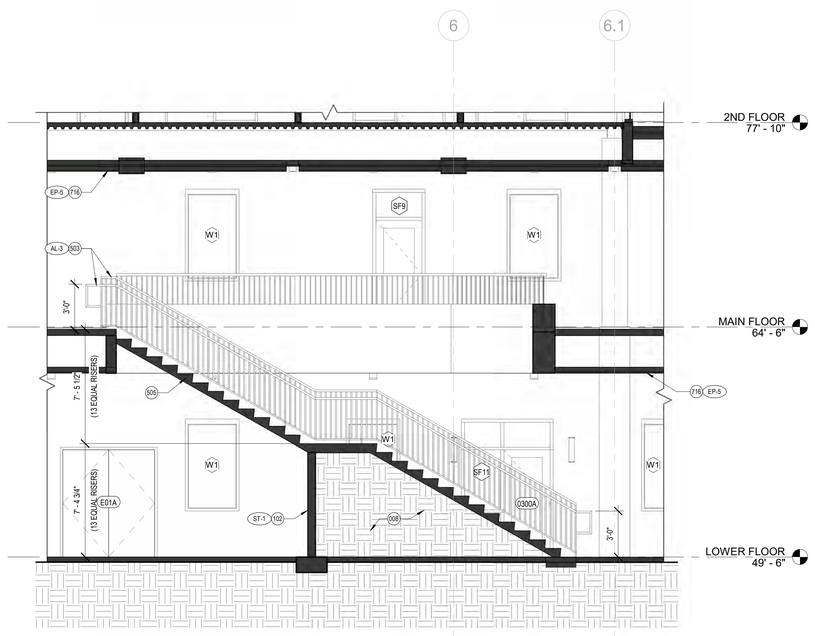
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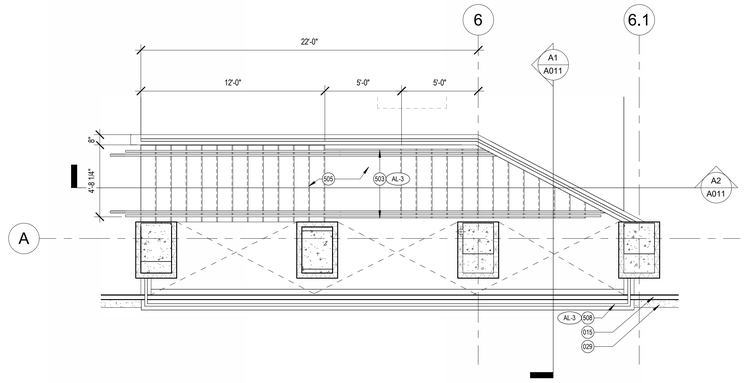
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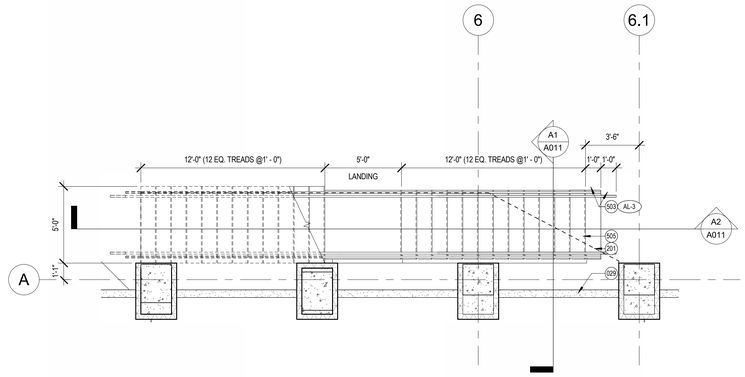
A1 SECTION B - SOUTH STAIR
A011 1/4" = 1'-0"



A2 SECTION - SOUTH EXTERIOR STAIR WEST
A011 1/4" = 1'-0"



B4 ENLARGED PLAN - SOUTH STAIR UPPER FLOOR
A011 1/4" = 1'-0"



A4 ENLARGED PLAN - SOUTH STAIR LOWER FLOOR
A011 1/4" = 1'-0"

FINISH SELECTIONS - EXTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
100 - WALLS AND OPENINGS				
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT		
CLADDING				
EP-5	VARIES	SEE RCP FOR INTERIOR AND EXTERIOR CEILING MATERIALS AND FINISH INFORMATION		
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE		

KEYNOTES - NEW WORK

000 - SITE		
	008	BACKFILL
	015	EXTERIOR EXPANSION JOINT COVER
	029	CURB AT EDGE OF PAVING - SEE CIVIL DRAWINGS
100 - WALLS AND OPENINGS		
	102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
200 - ROOF & EXTERIOR		
	201	OUTLINE OF STRUCTURE ABOVE
500 - VERTICAL CIRCULATION		
	503	ANODIZED ALUMINUM HANDRAIL & GUARDRAIL
	505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
	508	ANODIZED ALUMINUM GUARDRAIL
700 - RCP		
	716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

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EXTERIOR STAIR SOUTH

REVISIONS:

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DATE: 04/06/2026

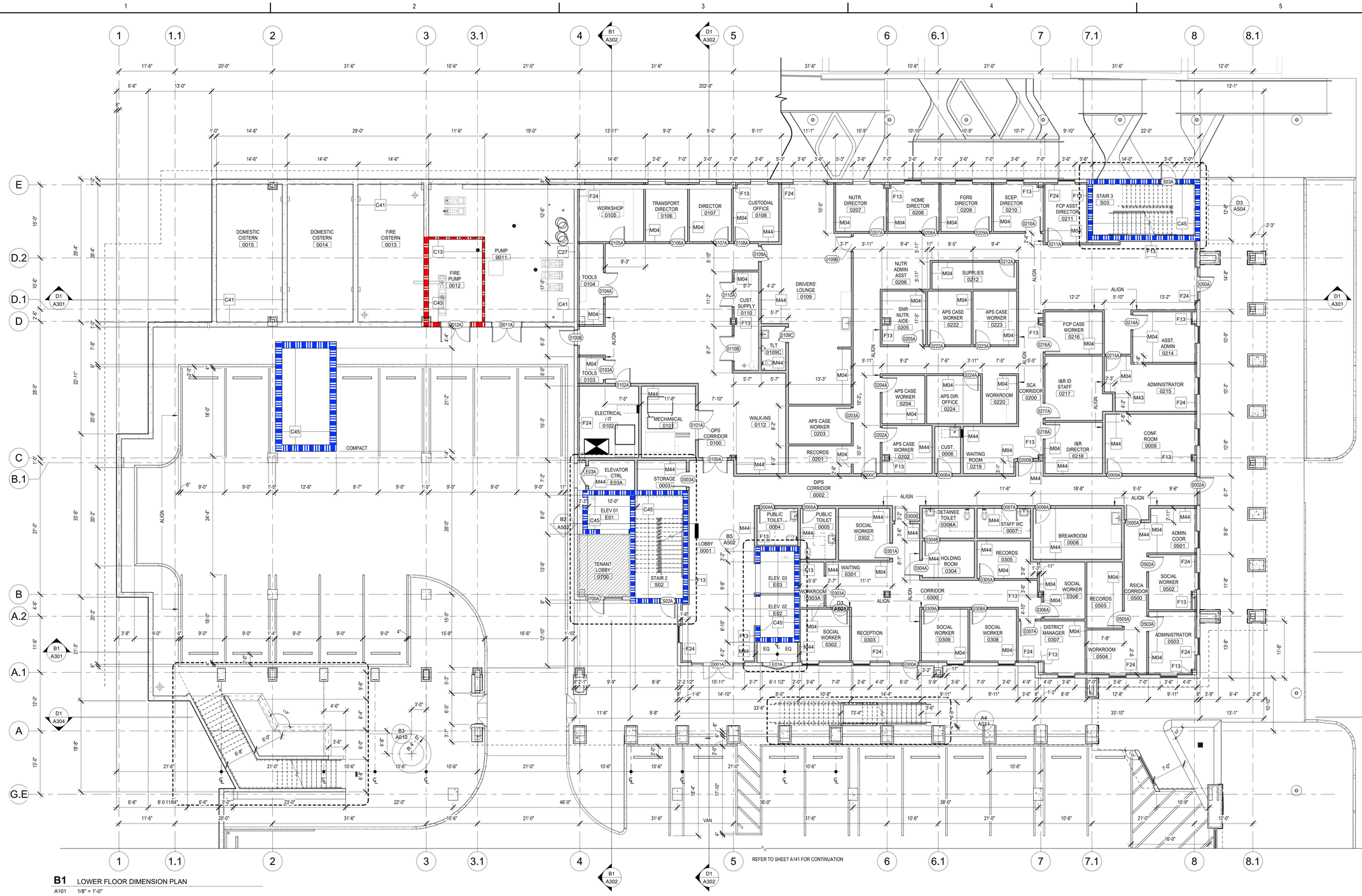
NOVUS JOB NUMBER
470-23-49

CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A011

B: 30% CONSTRUCTION DOCUMENTS

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B1 LOWER FLOOR DIMENSION PLAN
A101 1/8" = 1'-0"

GENERAL DIMENSION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES GREATER THAN 2" PRIOR TO FRAMING WALLS.
2. ALL INTERIOR PARTITIONS ARE TYPE M43 UNLESS NOTED OTHERWISE. REFER TO G201 FOR PARTITION TYPES.
3. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AT NEW WALLS, FACE OF STUD TO FACE OF EXTERIOR WALLS, AND FACE OF STUD TO FINISH FACE OF EXISTING WALLS WHERE SHOWN. ASSUME 5" NOMINAL WIDTHS OF STUD WALLS UNLESS OTHER WISE NOTED.
4. LOCATE DOORS 4" FROM HINGE SIDE TYPICALLY, UNLESS OTHERWISE SHOWN. AT LATCH SIDE OF DOOR PROVIDE A MINIMUM OF 18" CLEAR SPACE ON PULL SIDE OF DOOR AND 12" ON THE PUSH SIDE.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS.

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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LOWER FLOOR DIMENSION PLAN

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GSA TASK ORDER NUMBER
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SHEET NUMBER
A101

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B1 LOWER FLOOR REFERENCE PLAN
A102 1/8" = 1'-0"

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GENERAL REFERENCE NOTES

1. PROVIDE CONTINUOUS IN-WALL BLOCKING OR STRAPPING AS REQUIRED FOR ANY CASEWORK, WALL-MOUNTED EQUIPMENT, OR ACCESSORIES INDICATED ON PLAN. REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
2. REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINTS; GC SHALL EQUALLY SPACE VERTICAL CONTROL JOINTS ON ALL WALLS THAT EXCEED 25 LINEAR FEET IN LENGTH TO DIVIDE THE WALL INTO EQUALLY SPACED SECTIONS THAT ARE LESS THAN 25 LINEAR FEET IN LENGTH. WHERE CONTROL JOINTS ARE LOCATED OPPOSING WALLS IN ANY GIVEN SPACE, THEY SHALL BE ALIGNED AND SPACED SUCH THAT NO SECTION IS GREATER THAN 25 LINEAR FEET IN LENGTH.
3. GENERAL CONTRACTOR TO ADD FACILITY LABELS OF RATED ASSEMBLIES, VALVE LOCATIONS, ETC. COORDINATE WITH OWNER DURING CONSTRUCTION.
4. REFER TO SHEETS A610 FOR STOREFRONT AND WINDOW ELEVATIONS.
5. CONTRACTOR TO REVIEW SCOPE OF WORK WITH OTHER DISCIPLINES FOR COORDINATION - CONTACT ARCHITECT IF ANY CONDITIONS CONFLICT WITH SCOPE OF WORK OR ARE IN QUESTION.

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
008	BACKFILL
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
018	PEDESTRIAN CROSSWALK
020	BOLLARD WITH LIGHTING
021	ADA CURB RAMP - SEE CIVIL
022	CONCRETE WALKWAY - WHERE WALKWAY ABUTS EXTERIOR WALL IT MUST SLOPE AWAY FROM THE BUILDING AT NO MORE THAN 2%
028	CONCRETE WHEEL STOP
029	CURB AT EDGE OF PAVING - SEE CIVIL DRAWINGS
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
032	STEP STREET - NORTH TO SOUTH ACCESSIBLE ROUTE BETWEEN NEW CONSTRUCTION AND HISTORIC STRUCTURES
037	UNOCCUPIABLE SPACE BELOW STAIRWELL
038	PARKING STRIPING
039	HANDICAP PARKING SPACE
040	HANDICAP VAN PARKING SPACE
041	HANDICAP LOADING ZONE
042	COMPACT PARKING SPACE
043	HANDICAP PARKING SIGN
048	NATURAL AREA
050	DRIVEWAY PAVING - SEE CIVIL
051	PROPOSED LOCATION OF VITRAN BUS STOP
100 - WALLS AND OPENINGS	

KEYNOTES - NEW WORK

104	CIP STRUCTURAL WALL SEE STRUCTURAL DRAWINGS
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
200 - ROOF & EXTERIOR	
201	OUTLINE OF STRUCTURE ABOVE
300 - INTERIOR CONSTRUCTION & MILLWORK	
307	PLASTIC LAMINATE CABINETRY AND SOLID SURFACE COUNTERTOP - SEE MILLWORK DRAWINGS
400 - FFE	
413	INTERIOR WORK STATION ACOUSTIC FURNITURE SYSTEM
414	HIGH DENSITY STORAGE SYSTEM - SEE SPECIFICATIONS
415	WALK IN REFIGERATOR/FREEZER - SEE MEP
416	ANTI-LIGATURE FIXTURES INCLUDING: DOOR HARDWARE, LIGHTS, FURNISHINGS AND ACCESSORIES
500 - VERTICAL CIRCULATION	
501	CAST IN PLACE CONCRETE RAMP WITH ANODIZED ALUMINUM RAILING TO MEET ADA GUIDELINES WITH 1:12 MAXIMUM SLOPE
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
506	ANODIZED ALUMINUM HANDRAIL
507	ANODIZED ALUMINUM EXTERIOR HANDRAIL AND GUARDRAIL
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
510	ELEVATOR - SEE SPECIFICATIONS - 3500# STRETCHER COMPLIANT (7'-0" X 8'-9") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
511	ELEVATOR - SEE SPECIFICATIONS - 2500# - (7'-0" X 8'-7") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)

KEYNOTES - NEW WORK

513	ELEVATOR PIT BELOW - COORDINATE PIT DEPTH AND SUMP WITH STRUCTURAL & ELEVATOR MANUFACTURER
514	ELEVATOR SUMP PUMP, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
600 - COORDINATION	
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
609	REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT INFORMATION
616	CISTERN STRUCTURE - COORDINATE REQUIREMENTS WITH STRUCTURAL & CIVIL
800 - FINISHES	
812	OPERABLE INTERIOR WINDOW SHADE
813	SOLID SURFACE WINDOW SILL
814	PROVIDE PRIVACY FILM ON INTERIOR FACE OF EXTERIOR GLAZING

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A102

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION



B1 LOWER FLOOR FF&E

A103 1/8" = 1'-0"

GENERAL NOTES - FF&E

1. REFER TO G005 AND G006 FOR ACCESSIBILITY DETAILS AND TYPICAL MOUNTING HEIGHTS.
2. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR CABINETS, EQUIPMENT, TOILET ACCESSORIES OR WHERE REQUIRED OTHERWISE.
3. PRIOR TO EQUIPMENT INSTALLATION, CONTRACTOR TO COORDINATE AN EQUIPMENT MEETING WITH OWNER/ARCHITECT TO FINALIZE ELECTRICAL ROUGH-IN WORK AND MOUNTING REQUIREMENTS.
4. CONTRACTOR TO COORDINATE WITH VENDOR EQUIPMENT INSTALLATION. PROVIDE REQUIRED MEP SUPPORT NEEDED FOR ALL VENDOR EQUIPMENT.
5. CONTRACTOR TO VERIFY REQUIREMENTS OF ALL EQUIPMENT, INCLUDING VENDOR INSTALL EQUIPMENT PRIOR TO INSTALLATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR ADDITIONAL REQUIREMENTS NOT PROVIDED.
6. ALL FURNITURE IS OWNER PROVIDED & OWNER INSTALLED, UNLESS OTHERWISE NOTED.
7. REFER TO MEP DRAWINGS IN CONJUNCTION WITH THIS SHEET. WHERE CONFLICTS ARISE, NOTIFY ARCHITECT.
8. REFER TO VENDOR DRAWINGS FOR EQUIPMENT INFORMATION. FINAL LAYOUT DETERMINED BY SYSTEM INTEGRATOR.

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	
CC2	WALK-IN COOLER
CC3	WALK-IN FREEZER
CC10	ELEVATOR - 2500#
CC11	ELEVATOR - 3500# STRETCHER COMPLIANT
CC12	ELEVATOR (DOH)
CC20	SLIDING TRACK SHELVING HIGH DENSITY STORAGE SYSTEM
CC30	MIRROR
CC31	RECESSED BABY CHANGING STATION
CC32	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE
CC34	GRAB BARS ADA REQUIRED
CC39	SOAP DISPENSER - SURFACE MTD.
CC41	SURFACE MOUNTED TOILET PAPER DISPENSER - SURFACE MTD.
OWNER PROVIDED / CONTRACTOR INSTALLED	
OC11	55" LCD FLATSCREEN TV
OWNER PROVIDED / OWNER INSTALLED	
OO1	MICROWAVE
OO4	36" FRENCH DOOR REFRIGERATOR
OO20	COMPUTER W/ KEYBOARD AND MOUSE
OO21	DESK PHONE
OO22	XEROX COPIER
OO23	XEROX MULTIFUNCTION
OO31	36" LATERAL FILING CABINET
OO32	42" LATERAL FILING CABINET

FURNITURE SCHEDULE

MARK	DESCRIPTION
OWNER PROVIDED / OWNER INSTALLED	
F1	SIDE CHAIR
F2	TASK CHAIR WITH CASTERS
F4	COUCH
F9	DESK - L SHAPE 5' X 5'
F11	DESK - L SHAPE 6' X 4'
F12	DESK - L SHAPE 6' X 6'
F21	LOUNGE CHAIR
F22	SOFA 54"
F31	CONFERENCE TABLE 120" X 48"
F33	TABLE ROUND (36"DIA)
F35	TABLE ROUND (60" DIA)
F36	SIDE TABLE 20" X 20"
F52	CUBICLE WORK STATION 88" X 90"

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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LOWER FLOOR FF&E PLAN

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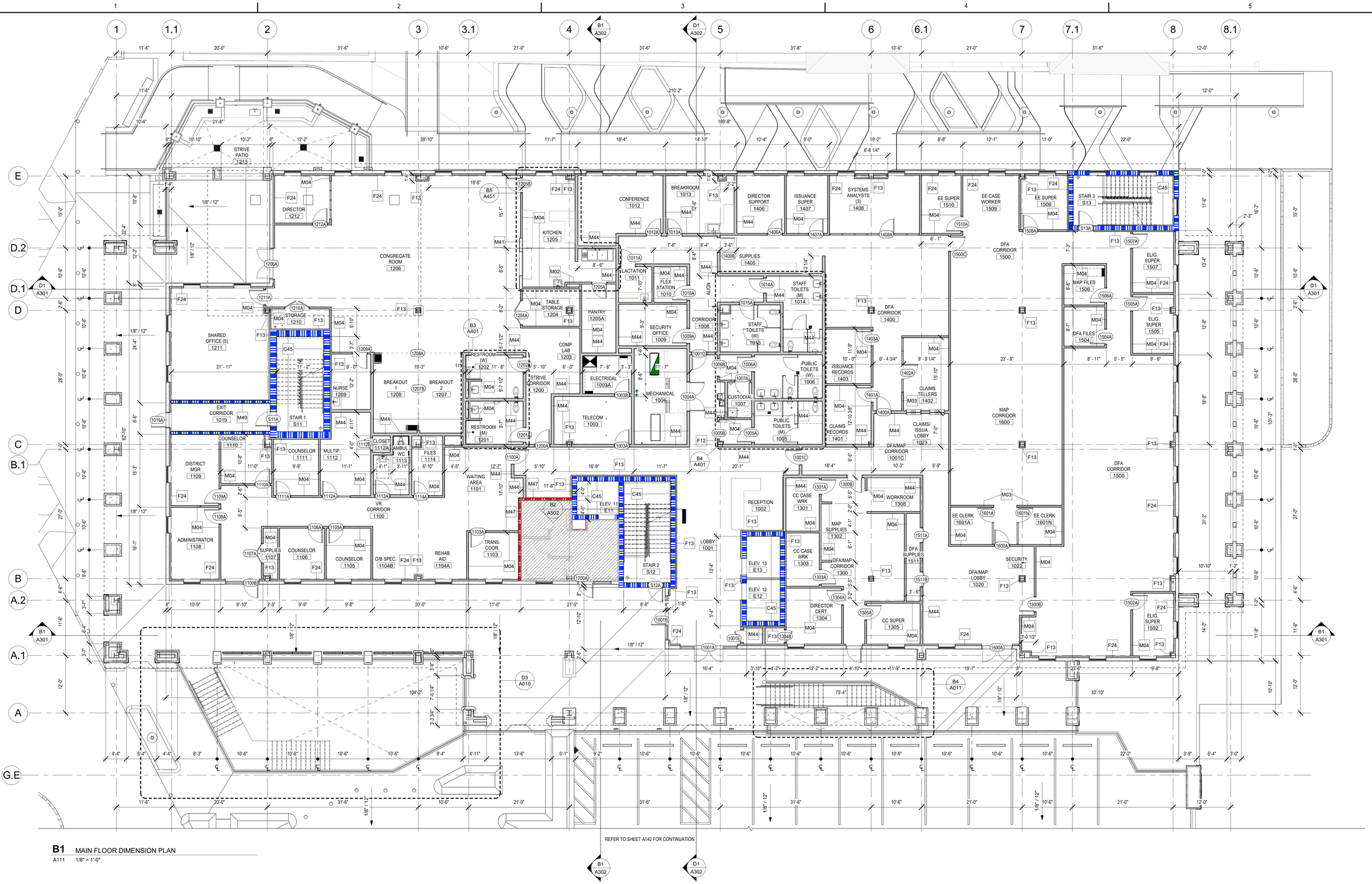
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NOVUS JOB NUMBER 470-23-49
CDR TASK ORDER NUMBER 010-9-101918

SHEET NUMBER A103

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B1 MAIN FLOOR DIMENSION PLAN
A111 1/8" = 1'-0"

GENERAL DIMENSION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES GREATER THAN 2" PRIOR TO FRAMING WALLS.
2. ALL INTERIOR PARTITIONS ARE TYPE M43 UNLESS NOTED OTHERWISE. REFER TO G201 FOR PARTITION TYPES.
3. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AT NEW WALLS, FACE OF STUD TO FACE OF EXTERIOR WALLS, AND FACE OF STUD TO FINISH FACE OF EXISTING WALLS WHERE SHOWN. ASSUME 9" NOMINAL WIDTHS OF STUD WALLS UNLESS OTHER WISE NOTED.
4. LOCATE DOORS 4" FROM HINGE SIDE TYPICALLY, UNLESS OTHERWISE SHOWN. AT LATCH SIDE OF DOOR PROVIDE A MINIMUM OF 18" CLEAR SPACE ON PULL SIDE OF DOOR AND 12" ON THE PUSH SIDE.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS.

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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MAIN FLOOR DIMENSION PLAN

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No.	Description	Date

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CHECKED BY: JT
DATE: 04/06/2026

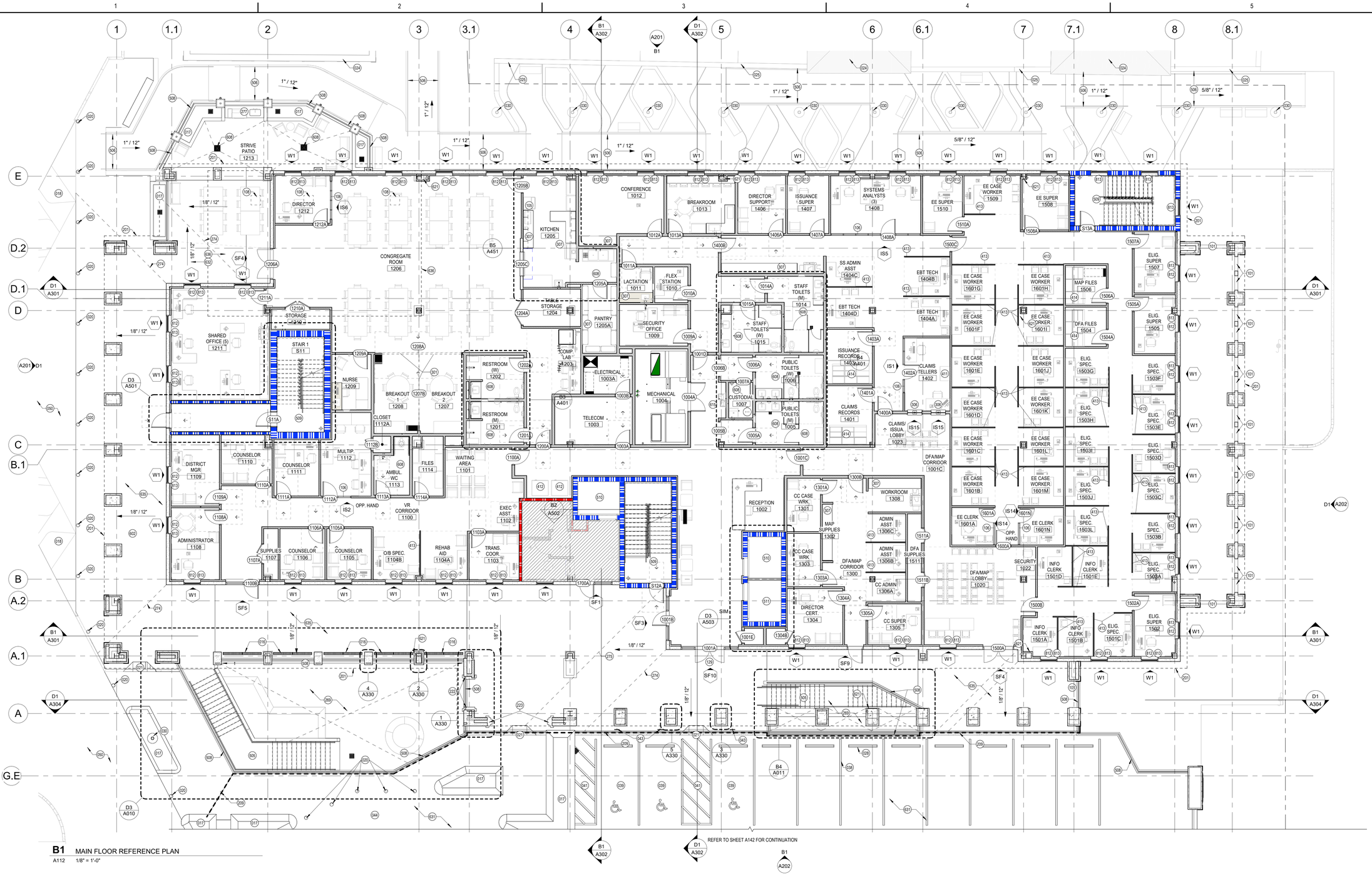
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B1 MAIN FLOOR REFERENCE PLAN
A112 1/8" = 1'-0"

GENERAL REFERENCE NOTES

1. PROVIDE CONTINUOUS IN-WALL BLOCKING OR STRAPPING AS REQUIRED FOR ANY CASEWORK, WALL-MOUNTED EQUIPMENT, OR ACCESSORIES INDICATED ON PLAN. REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
2. REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINTS; GC SHALL EQUALLY SPACE VERTICAL CONTROL JOINTS ON ALL WALLS THAT EXCEED 25 LINEAR FEET IN LENGTH TO DIVIDE THE WALL INTO EQUALLY SPACED SECTIONS THAT ARE LESS THAN 25 LINEAR FEET IN LENGTH. WHERE CONTROL JOINTS ARE LOCATED OPPOSING WALLS IN ANY GIVEN SPACE, THEY SHALL BE ALIGNED AND SPACED SUCH THAT NO SECTION IS GREATER THAN 25 LINEAR FEET IN LENGTH.
3. GENERAL CONTRACTOR TO ADD FACILITY LABELS OF RATED ASSEMBLIES, VALVE LOCATIONS, ETC. COORDINATE WITH OWNER DURING CONSTRUCTION.
4. REFER TO SHEETS A610 FOR STOREFRONT AND WINDOW ELEVATIONS.
5. CONTRACTOR TO REVIEW SCOPE OF WORK WITH OTHER DISCIPLINES FOR COORDINATION - CONTACT ARCHITECT IF ANY CONDITIONS CONFLICT WITH SCOPE OF WORK OR ARE IN QUESTION.

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
016	TRENCH DRAIN - REFER TO CIVIL/ PLUMBING
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
018	PEDESTRIAN CROSSWALK
020	BOLLARD WITH LIGHTING
021	ADA CURB RAMP - SEE CIVIL
024	EXISTING STRUCTURE TO BE PROTECTED AT ALL TIMES DURING ADJACENT DEMOLITION AND CONSTRUCTION
025	EXISTING HISTORIC WALL TO BE PROTECTED AT ALL TIMES DURING ADJACENT DEMOLITION AND CONSTRUCTION
028	CONCRETE WHEEL STOP
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
038	PARKING STRIPING
039	HANDICAP PARKING SPACE
041	HANDICAP LOADING ZONE
043	HANDICAP PARKING SIGN
044	PASSENGER LOADING ZONE
050	DRIVEWAY PAVING - SEE CIVIL
100 - WALLS AND OPENINGS	
101	OPENING THROUGH WALL
105	COILING COUNTER SHUTTER - SEE SPECS
106	INTERIOR GLAZED ASSEMBLY WITH HOLLOW METAL FRAME - SEE A611
108	2'x2' CISTERN ACCESS HATCH AT MAIN FLOOR WITH SEALED METAL COVERS (1 PER CISTERN CHAMBER)
129	AUTOMATIC DOOR OPENER AT MAIN FLOOR ENTRANCE DOORS
200 - ROOF & EXTERIOR	

KEYNOTES - NEW WORK

201	OUTLINE OF STRUCTURE ABOVE
209	BUILDING EXPANSION JOINT AND EXPANSION JOINT COVER - SEE STRUCTURAL DRAWINGS
222	CAST STONE PORTAL SURROUND - PROFILE C
223	CAST STONE PORTAL SURROUND - PROFILE D
269	LIGHT WELL AND EXTERIOR STAIR - SLAB OPENING TO LEVEL BELOW
274	RIDGE
275	VALLEY
277	OUTDOOR KITCHEN AREA WITH SINK AND BARBECUE GRILL - SEE ENLARGED PLANS/ELEVATIONS
300 - INTERIOR CONSTRUCTION & MILLWORK	
301	OPERABLE FOLDING PANEL ACOUSTIC WALL PARTITION - WITH DOOR PANEL (MIN STC-50)
306	BULLETPROOF TRANSACTION WINDOW WITH SOLID SURFACE COUNTER - SEE MILLWORK DETAILS
307	PLASTIC LAMINATE CABINETRY AND SOLID SURFACE COUNTERTOP - SEE MILLWORK DRAWINGS
400 - FFE	
411	FLOOR SAFE BY OWNER
412	VENDING MACHINE BY OTHERS
413	INTERIOR WORK STATION ACOUSTIC FURNITURE SYSTEM
414	HIGH DENSITY STORAGE SYSTEM - SEE SPECIFICATIONS
500 - VERTICAL CIRCULATION	
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
506	ANODIZED ALUMINUM HANDRAIL
508	ANODIZED ALUMINUM GUARDRAIL
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
510	ELEVATOR - SEE SPECIFICATIONS - 3500# STRETCHER COMPLIANT (7'-0" X 8'-9") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)

KEYNOTES - NEW WORK

511	ELEVATOR - SEE SPECIFICATIONS - 2500# - (7'-0" X 8'-7") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
600 - COORDINATION	
602	CAST IN PLACE CONCRETE PATIO - SEE STRUCTURAL
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
615	DRINKING FOUNTAIN - SEE PLUMBING
621	PIPE/ DUCT CHASE - SEE MEP
631	POST-TENSIONED DECK WITH 1/4"/12" SLOPE, SEE STRUCTURAL
632	SLAB ON GRADE
635	ELEVATED REINFORCED CONCRETE SLAB
636	CONCRETE CISTERN LID TO BE FLUSH WITH ADJACENT SLABS - SEE STRUCTURAL
800 - FINISHES	
812	OPERABLE INTERIOR WINDOW SHADE
813	SOLID SURFACE WINDOW SILL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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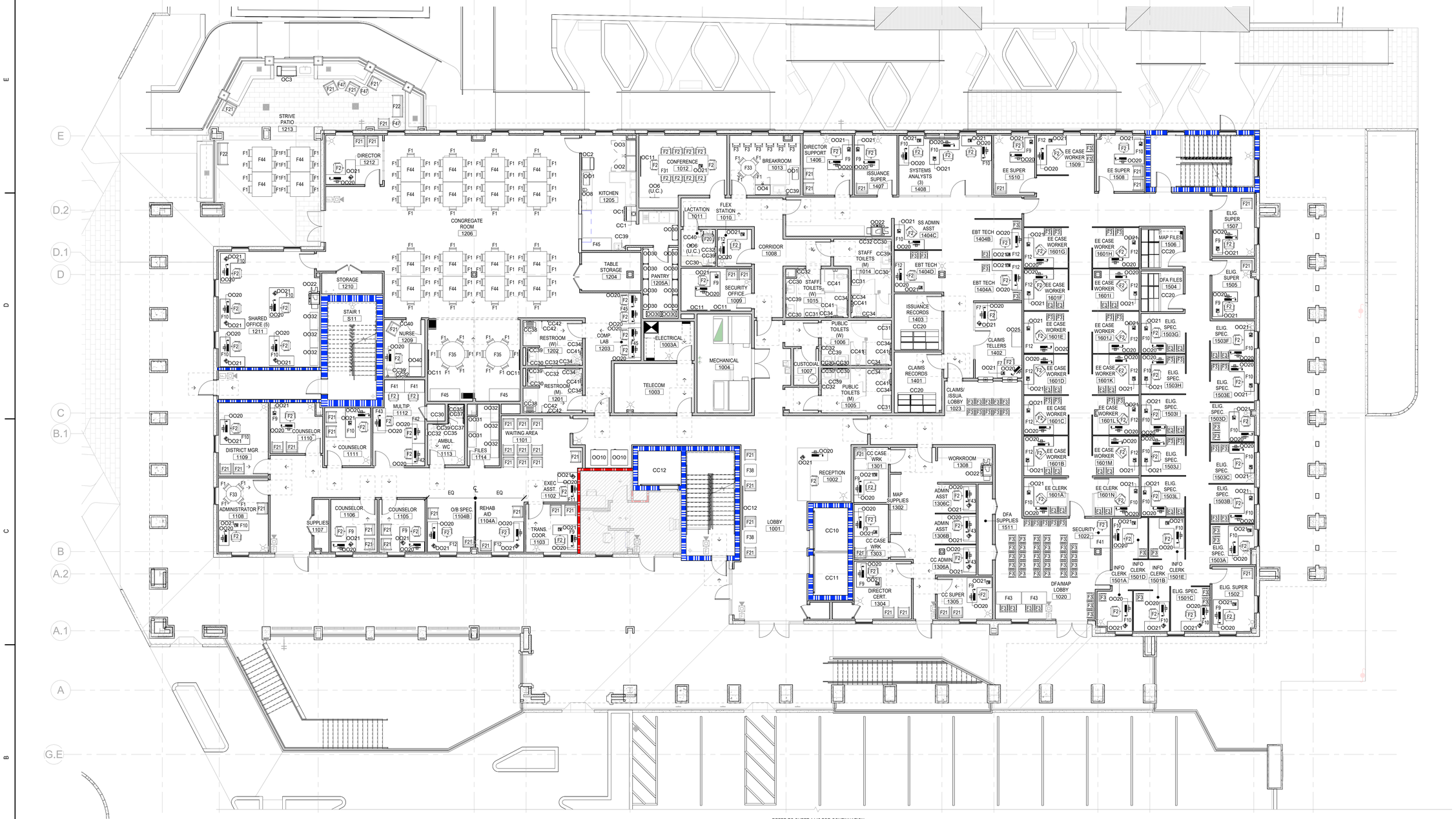
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B1 MAIN FLOOR FF&E
A113 1/8" = 1'-0"

GENERAL NOTES - FF&E

1. REFER TO G005 AND G006 FOR ACCESSIBILITY DETAILS AND TYPICAL MOUNTING HEIGHTS.
2. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR CABINETS, EQUIPMENT, TOILET ACCESSORIES OR WHERE REQUIRED OTHERWISE.
3. PRIOR TO EQUIPMENT INSTALLATION, CONTRACTOR TO COORDINATE AN EQUIPMENT MEETING WITH OWNER/ARCHITECT TO FINALIZE ELECTRICAL ROUGH-IN WORK AND MOUNTING REQUIREMENTS.
4. CONTRACTOR TO COORDINATE WITH VENDOR EQUIPMENT INSTALLATION. PROVIDE REQUIRED MEP SUPPORT NEEDED FOR ALL VENDOR EQUIPMENT.
5. CONTRACTOR TO VERIFY REQUIREMENTS OF ALL EQUIPMENT, INCLUDING VENDOR INSTALL EQUIPMENT PRIOR TO INSTALLATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR ADDITIONAL REQUIREMENTS NOT PROVIDED.
6. ALL FURNITURE IS OWNER PROVIDED & OWNER INSTALLED, UNLESS OTHERWISE NOTED.
7. REFER TO MEP DRAWINGS IN CONJUNCTION WITH THIS SHEET. WHERE CONFLICTS ARISE, NOTIFY ARCHITECT.
8. REFER TO VENDOR DRAWINGS FOR EQUIPMENT INFORMATION. FINAL LAYOUT DETERMINED BY SYSTEM INTEGRATOR.

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	
CC1	GREENHECK FIRE READY RANGE HOOD GRRS-W-36-T-E-D-N
CC10	ELEVATOR - 2500#
CC11	ELEVATOR - 3500# STRETCHER COMPLIANT
CC12	ELEVATOR (DOH)
CC20	SLIDING TRACK SHELVING HIGH DENSITY STORAGE SYSTEM
CC30	MIRROR
CC31	RECESSED BABY CHANGING STATION
CC32	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE
CC34	GRAB BARS ADA REQUIRED
CC35	42" GRAB BAR
CC37	36"X36" SHOWER GRAB BARS
CC38	FOLDING SHOWER SEAT
CC39	SOAP DISPENSER - SURFACE MTD.
CC40	HAND SANITIZER DISPENSER - SURFACE MTD.
CC41	SURFACE MOUNTED TOILET PAPER DISPENSER - SURFACE MTD.
CC42	COAT/ROBE HOOK
OWNER PROVIDED / CONTRACTOR INSTALLED	
OC1	OVEN / RANGE
OC2	ICE MAKER
OC3	OUTDOOR GRILL
OC11	55" LCD FLATSCREEN TV
OC12	96" LCD FLATSCREEN TV

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
OWNER PROVIDED / OWNER INSTALLED	
OO1	MICROWAVE
OO2	36" REFRIGERATOR
OO3	36" FREEZER
OO4	36" FRENCH DOOR REFRIGERATOR
OO6	REFRIGERATOR - UNDER COUNTER
OO8	COFFEE MAKER
OO10	DRINK/SNACK VENDING MACHINE
OO20	COMPUTER W/ KEYBOARD AND MOUSE
OO21	DESK PHONE
OO22	XEROX COPIER
OO25	FLOOR SAFE
OO30	STORAGE SHELVING UNIT.
OO31	36" LATERAL FILING CABINET
OO32	42" LATERAL FILING CABINET
OO40	EXAM TABLE

FURNITURE SCHEDULE

MARK	DESCRIPTION
OWNER PROVIDED / OWNER INSTALLED	
F1	SIDE CHAIR
F2	TASK CHAIR WITH CASTERS
F3	CHAIR, STACKABLE, WITHOUT ARMS
F7	DESK - 60" X 30"
F9	DESK - L SHAPE 5' X 5'
F10	DESK - L SHAPE 5' X 6'
F11	DESK - L SHAPE 6' X 4'
F12	DESK - L SHAPE 6' X 6'
F20	ROCKER CHAIR
F21	LOUNGE CHAIR
F22	SOFA 54"
F31	CONFERENCE TABLE 120" X 48"
F33	TABLE ROUND (36"DIA)
F35	TABLE ROUND (60" DIA)
F38	SIDE TABLE 30" x 30"
F41	TABLE 48" X 30"
F42	TABLE 54" x 30"
F43	TABLE 60" X 30"
F44	TABLE 60" x 48"
F45	TABLE 72" x 30"
F47	ACCENT TABLE

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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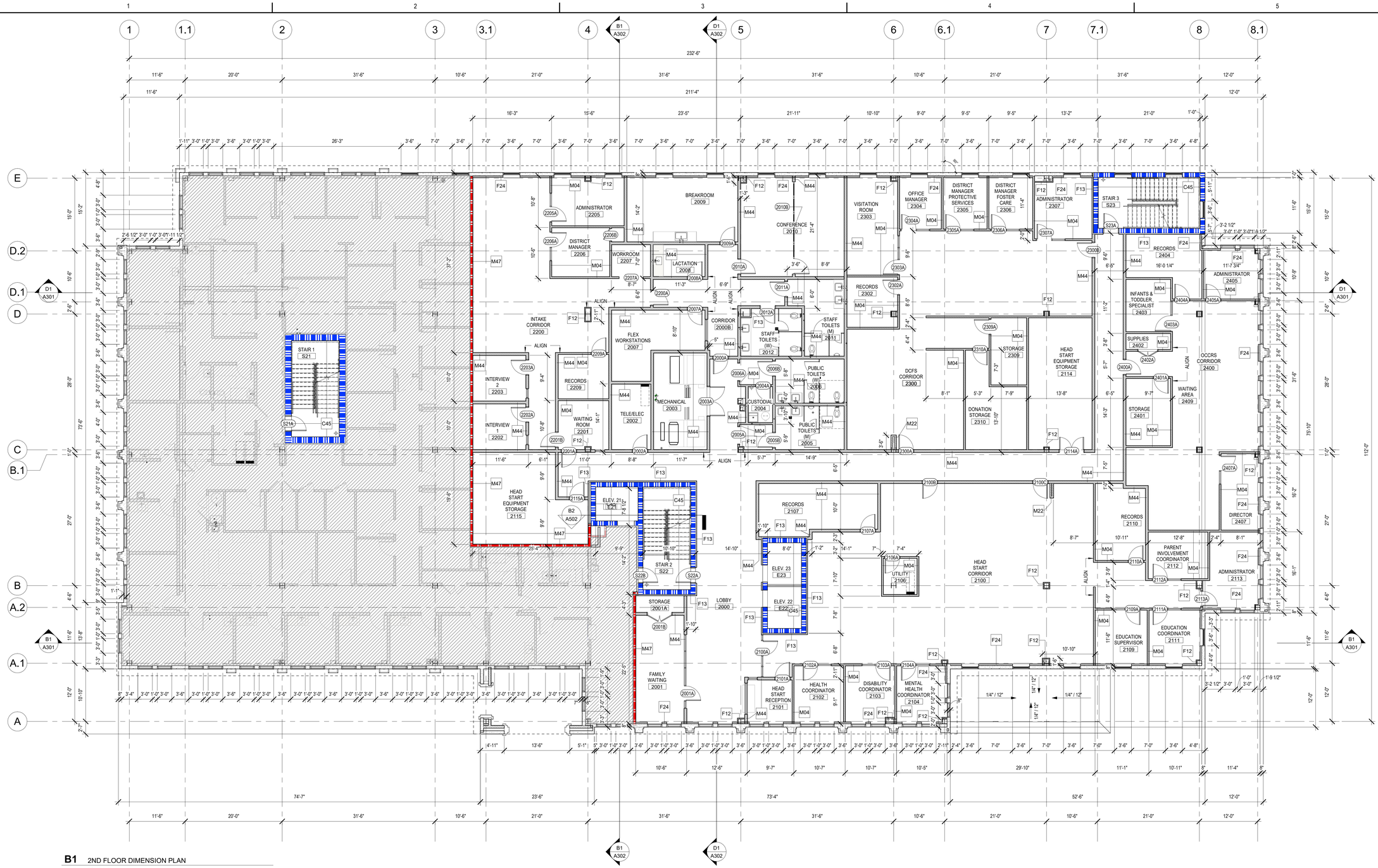
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B1 2ND FLOOR DIMENSION PLAN
A121 1/8" = 1'-0"

GENERAL DIMENSION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES GREATER THAN 2" PRIOR TO FRAMING WALLS.
2. ALL INTERIOR PARTITIONS ARE TYPE M43 UNLESS NOTED OTHERWISE. REFER TO G201 FOR PARTITION TYPES.
3. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AT NEW WALLS, FACE OF STUD TO FACE OF EXTERIOR WALLS, AND FACE OF STUD TO FINISH FACE OF EXISTING WALLS WHERE SHOWN. ASSUME 9" NOMINAL WIDTHS OF STUD WALLS UNLESS OTHER WISE NOTED.
4. LOCATE DOORS 4" FROM HINGE SIDE TYPICALLY, UNLESS OTHERWISE SHOWN. AT LATCH SIDE OF DOOR PROVIDE A MINIMUM OF 18" CLEAR SPACE ON PULL SIDE OF DOOR AND 12" ON THE PUSH SIDE.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS.

GENERAL LEGEND

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*SEE G201 FOR WALL TYPE INFORMATION

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2ND FLOOR DIMENSION PLAN

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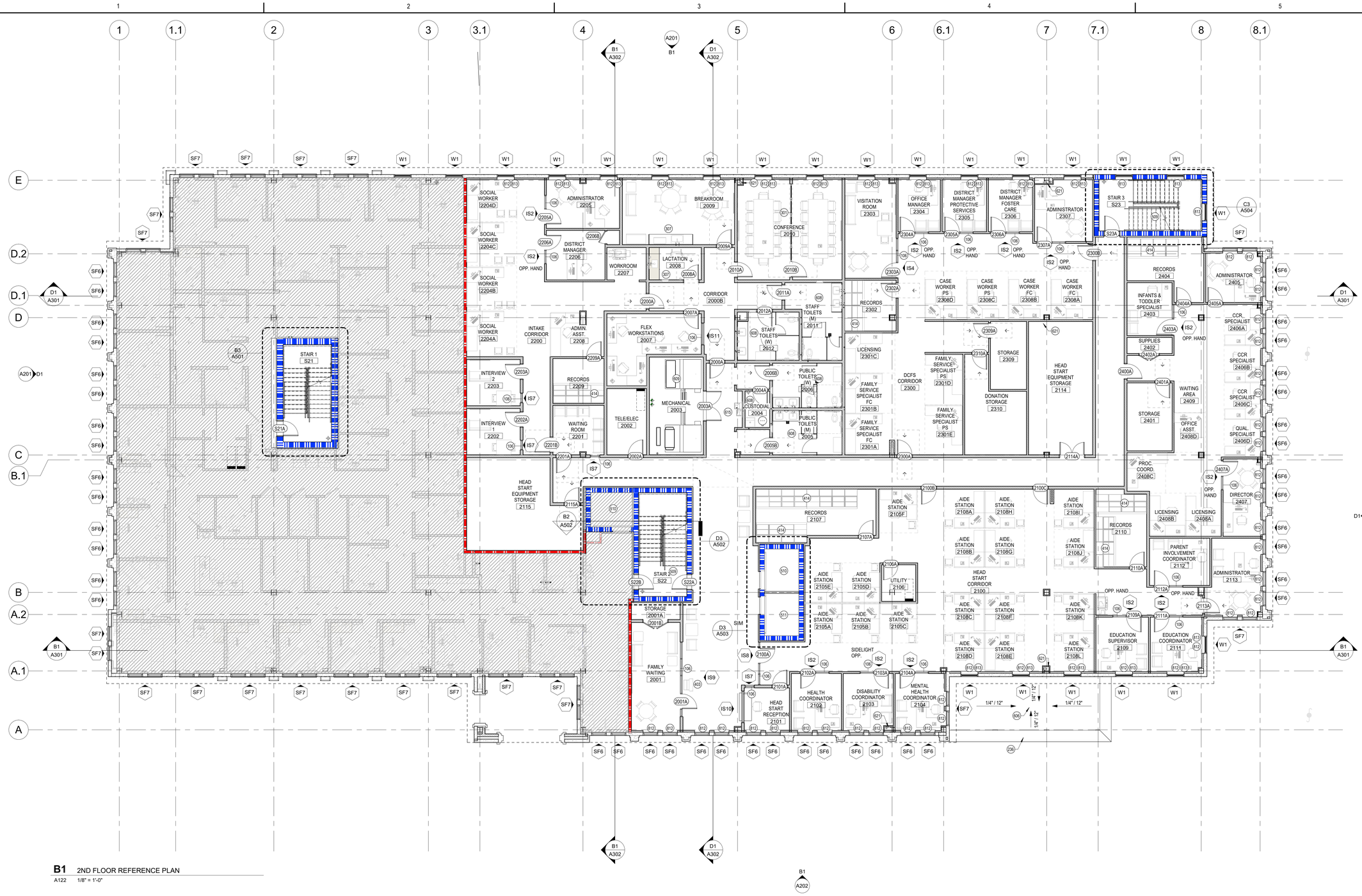
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A121

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B1 2ND FLOOR REFERENCE PLAN

A122 1/8" = 1'-0"

GENERAL REFERENCE NOTES

1. PROVIDE CONTINUOUS IN-WALL BLOCKING OR STRAPPING AS REQUIRED FOR ANY CASEWORK, WALL-MOUNTED EQUIPMENT, OR ACCESSORIES INDICATED ON PLAN. REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
2. REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINTS; GC SHALL EQUALLY SPACE VERTICAL CONTROL JOINTS ON ALL WALLS THAT EXCEED 25 LINEAR FEET IN LENGTH TO DIVIDE THE WALL INTO EQUALLY SPACED SECTIONS THAT ARE LESS THAN 25 LINEAR FEET IN LENGTH. WHERE CONTROL JOINTS ARE LOCATED OPPOSING WALLS IN ANY GIVEN SPACE, THEY SHALL BE ALIGNED AND SPACED SUCH THAT NO SECTION IS GREATER THAN 25 LINEAR FEET IN LENGTH.
3. GENERAL CONTRACTOR TO ADD FACILITY LABELS OF RATED ASSEMBLIES, VALVE LOCATIONS, ETC. COORDINATE WITH OWNER DURING CONSTRUCTION.
4. REFER TO SHEETS A610 FOR STOREFRONT AND WINDOW ELEVATIONS.
5. CONTRACTOR TO REVIEW SCOPE OF WORK WITH OTHER DISCIPLINES FOR COORDINATION - CONTACT ARCHITECT IF ANY CONDITIONS CONFLICT WITH SCOPE OF WORK OR ARE IN QUESTION.

KEYNOTES - NEW WORK

#	DESCRIPTION
100 - WALLS AND OPENINGS	
106	INTERIOR GLAZED ASSEMBLY WITH HOLLOW METAL FRAME - SEE A611
200 - ROOF & EXTERIOR	
236	METAL COPING PARAPET CAP FLASHING
300 - INTERIOR CONSTRUCTION & MILLWORK	
301	OPERABLE FOLDING PANEL ACOUSTIC WALL PARTITION - WITH DOOR PANEL (MIN STC-50)
307	PLASTIC LAMINATE CABINETRY AND SOLID SURFACE COUNTERTOP - SEE MILLWORK DRAWINGS
400 - FFE	
403	PROVIDE SELF CHECK-IN KIOSK - REFER TO FF&E PLAN
414	HIGH DENSITY STORAGE SYSTEM - SEE SPECIFICATIONS
500 - VERTICAL CIRCULATION	
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
510	ELEVATOR - SEE SPECIFICATIONS - 3500# STRETCHER COMPLIANT (7'-0" X 8'-9") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
511	ELEVATOR - SEE SPECIFICATIONS - 2500# - (7'-0" X 8'-7") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
600 - COORDINATION	
606	INTERNAL ROOF DRAIN ASSEMBLY, PIPED VERTICALLY DOWN TO LOWER LEVEL AT NEAREST INTERIOR COLUMN LINE, AND PIPED LATERALLY OVERHEAD TO CISTERN

KEYNOTES - NEW WORK

608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
609	REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT INFORMATION
615	DRINKING FOUNTAIN - SEE PLUMBING
621	PIPE/ DUCT CHASE - SEE MEP
800 - FINISHES	
812	OPERABLE INTERIOR WINDOW SHADE
813	SOLID SURFACE WINDOW SILL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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2ND FLOOR REFERENCE PLAN

REVISIONS:		
No.	Description	Date

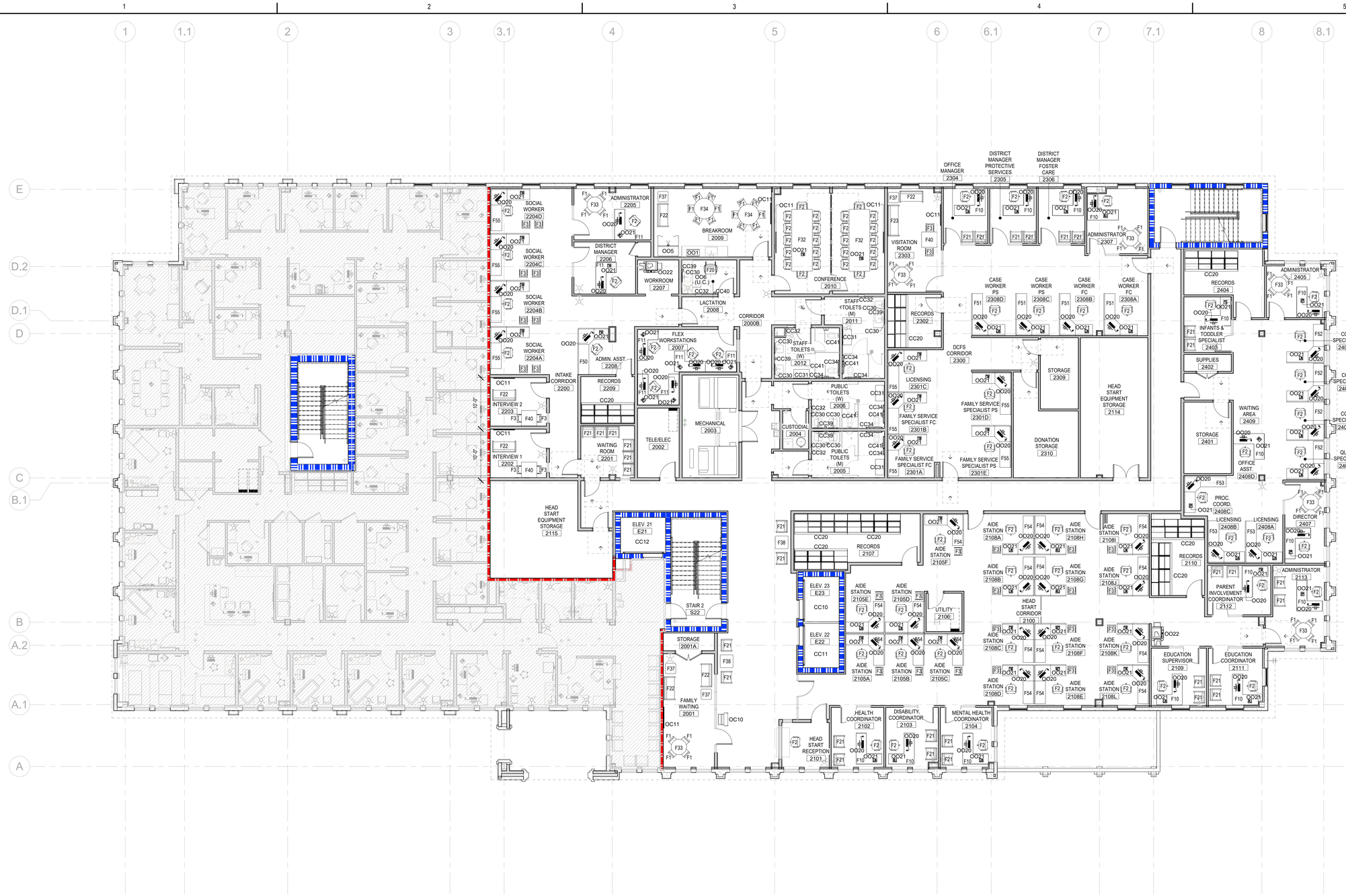
DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER: 470-23-49
ODR TASK ORDER NUMBER: 010-9-101918

SHEET NUMBER: A122

B: 30% CONSTRUCTION DOCUMENTS — NOT FOR CONSTRUCTION

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B1 2ND FLOOR FF&E

A123 1/8" = 1'-0"

GENERAL NOTES - FF&E

1. REFER TO G005 AND G006 FOR ACCESSIBILITY DETAILS AND TYPICAL MOUNTING HEIGHTS.
2. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR CABINETS, EQUIPMENT, TOILET ACCESSORIES OR WHERE REQUIRED OTHERWISE.
3. PRIOR TO EQUIPMENT INSTALLATION, CONTRACTOR TO COORDINATE AN EQUIPMENT MEETING WITH OWNER/ARCHITECT TO FINALIZE ELECTRICAL ROUGH-IN WORK AND MOUNTING REQUIREMENTS.
4. CONTRACTOR TO COORDINATE WITH VENDOR EQUIPMENT INSTALLATION. PROVIDE REQUIRED MEP SUPPORT NEEDED FOR ALL VENDOR EQUIPMENT.
5. CONTRACTOR TO VERIFY REQUIREMENTS OF ALL EQUIPMENT, INCLUDING VENDOR INSTALL EQUIPMENT PRIOR TO INSTALLATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR ADDITIONAL REQUIREMENTS NOT PROVIDED.
6. ALL FURNITURE IS OWNER PROVIDED & OWNER INSTALLED, UNLESS OTHERWISE NOTED.
7. REFER TO MEP DRAWINGS IN CONJUNCTION WITH THIS SHEET. WHERE CONFLICTS ARISE, NOTIFY ARCHITECT.
8. REFER TO VENDOR DRAWINGS FOR EQUIPMENT INFORMATION. FINAL LAYOUT DETERMINED BY SYSTEM INTEGRATOR.

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	
CC10	ELEVATOR - 2500#
CC11	ELEVATOR - 3500# STRETCHER COMPLIANT
CC12	ELEVATOR (DOH)
CC20	SLIDING TRACK SHELVING HIGH DENSITY STORAGE SYSTEM
CC30	MIRROR
CC31	RECESSED BABY CHANGING STATION
CC32	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE
CC34	GRAB BARS ADA REQUIRED
CC39	SOAP DISPENSER - SURFACE MTD.
CC40	HAND SANITIZER DISPENSER - SURFACE MTD.
CC41	SURFACE MOUNTED TOILET PAPER DISPENSER - SURFACE MTD.
OWNER PROVIDED / CONTRACTOR INSTALLED	
OC10	SELF CHECK IN KIOSK
OC11	55" LCD FLATSCREEN TV
OWNER PROVIDED / OWNER INSTALLED	
OO1	MICROWAVE
OO5	48" FRENCH DOOR REFRIGERATOR
OO6	REFRIGERATOR - UNDER COUNTER
OO20	COMPUTER W/ KEYBOARD AND MOUSE
OO21	DESK PHONE
OO22	XEROX COPIER

FURNITURE SCHEDULE

MARK	DESCRIPTION
OWNER PROVIDED / OWNER INSTALLED	
F1	SIDE CHAIR
F2	TASK CHAIR WITH CASTERS
F3	CHAIR, STACKABLE, WITHOUT ARMS
F10	DESK - L SHAPE 5' X 6'
F11	DESK - L SHAPE 6' X 4'
F20	ROCKER CHAIR
F21	LOUNGE CHAIR
F22	SOFA 54"
F23	SOFA 72"
F32	CONFERENCE TABLE 144" X 48"
F33	TABLE ROUND (36"DIA)
F34	TABLE ROUND (48" DIA)
F37	SIDE TABLE 24" X 24"
F38	SIDE TABLE 30" x 30"
F40	TABLE 36" x 36"
F50	CUBICLE WORK STATION 71" X 106"
F51	CUBICLE WORK STATION 78" x 96"
F52	CUBICLE WORK STATION 88" X 90"
F53	CUBICLE WORK STATION 88" x 96"
F54	CUBICLE WORK STATION 91" x 72"
F55	CUBICLE WORK STATION 91" x 96"

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
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*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY U.S. VIRGIN ISLANDS

GOVERNMENT OF THE U.S. VIRGIN ISLANDS DEPARTMENT OF HUMAN SERVICES

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2ND FLOOR FF&E PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: CK

CHECKED BY: JT

DATE: 04/06/2026

NOVUS JOB NUMBER 470-23-49

ODR TASK ORDER NUMBER 010-9-101918

SHEET NUMBER A123

B: 30% CONSTRUCTION DOCUMENTS

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B1 3RD FLOOR DIMENSION PLAN

A131 1/8" = 1'-0"

GENERAL DIMENSION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES GREATER THAN 2" PRIOR TO FRAMING WALLS.
2. ALL INTERIOR PARTITIONS ARE TYPE M43 UNLESS NOTED OTHERWISE. REFER TO G201 FOR PARTITION TYPES.
3. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AT NEW WALLS, FACE OF STUD TO FACE OF EXTERIOR WALLS, AND FACE OF STUD TO FINISH FACE OF EXISTING WALLS WHERE SHOWN. ASSUME 9" NOMINAL WIDTHS OF STUD WALLS UNLESS OTHER WISE NOTED.
4. LOCATE DOORS 4" FROM HINGE SIDE TYPICALLY, UNLESS OTHERWISE SHOWN. AT LATCH SIDE OF DOOR PROVIDE A MINIMUM OF 18" CLEAR SPACE ON PULL SIDE OF DOOR AND 12" ON THE PUSH SIDE.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS.

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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3RD FLOOR DIMENSION PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A131

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION



B1 3RD FLOOR REFERENCE PLAN
A132 1/8" = 1'-0"

GENERAL REFERENCE NOTES

1. PROVIDE CONTINUOUS IN-WALL BLOCKING OR STRAPPING AS REQUIRED FOR ANY CASEWORK, WALL-MOUNTED EQUIPMENT, OR ACCESSORIES INDICATED ON PLAN. REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
2. REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINTS; GC SHALL EQUALLY SPACE VERTICAL CONTROL JOINTS ON ALL WALLS THAT EXCEED 25 LINEAR FEET IN LENGTH TO DIVIDE THE WALL INTO EQUALLY SPACED SECTIONS THAT ARE LESS THAN 25 LINEAR FEET IN LENGTH. WHERE CONTROL JOINTS ARE LOCATED OPPOSING WALLS IN ANY GIVEN SPACE, THEY SHALL BE ALIGNED AND SPACED SUCH THAT NO SECTION IS GREATER THAN 25 LINEAR FEET IN LENGTH.
3. GENERAL CONTRACTOR TO ADD FACILITY LABELS OF RATED ASSEMBLIES, VALVE LOCATIONS, ETC. COORDINATE WITH OWNER DURING CONSTRUCTION.
4. REFER TO SHEETS A610 FOR STOREFRONT AND WINDOW ELEVATIONS.
5. CONTRACTOR TO REVIEW SCOPE OF WORK WITH OTHER DISCIPLINES FOR COORDINATION - CONTACT ARCHITECT IF ANY CONDITIONS CONFLICT WITH SCOPE OF WORK OR ARE IN QUESTION.

KEYNOTES - NEW WORK

#	DESCRIPTION
	100 - WALLS AND OPENINGS
106	INTERIOR GLAZED ASSEMBLY WITH HOLLOW METAL FRAME - SEE A611
	200 - ROOF & EXTERIOR
221	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE B
	300 - INTERIOR CONSTRUCTION & MILLWORK
301	OPERABLE FOLDING PANEL ACOUSTIC WALL PARTITION - WITH DOOR PANEL (MIN STC-50)
307	PLASTIC LAMINATE CABINETRY AND SOLID SURFACE COUNTERTOP - SEE MILLWORK DRAWINGS
	400 - FFE
407	STEEL ROOF ACCESS LADDER
411	FLOOR SAFE BY OWNER
413	INTERIOR WORK STATION ACOUSTIC FURNITURE SYSTEM
414	HIGH DENSITY STORAGE SYSTEM - SEE SPECIFICATIONS
	500 - VERTICAL CIRCULATION
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
510	ELEVATOR - SEE SPECIFICATIONS - 3500# STRETCHER COMPLIANT (7'-0" X 8'-9") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
511	ELEVATOR - SEE SPECIFICATIONS - 2500# - (7'-0" X 8'-7") CLEAR REQD GC TO CONFIRM ALL SHAFT DIMENSION REQUIREMENTS AND OTHER CONSTRUCTION REQUIREMENTS WITH MANUFACTURER. PER BASIS OF DESIGN MFR (KONE MONOSPACE 300)
512	RAISED FLOOR TO ACCOMODATE ELEVATOR SHAFT CEILING - SEE STRUCTURAL

KEYNOTES - NEW WORK

	600 - COORDINATION
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
614	KEY CARD AND BIOMETRIC READER, REFER TO ELECTRICAL DRAWINGS
615	DRINKING FOUNTAIN - SEE PLUMBING
621	PIPE/ DUCT CHASE - SEE MEP
	800 - FINISHES
812	OPERABLE INTERIOR WINDOW SHADE
813	SOLID SURFACE WINDOW SILL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

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- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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3RD FLOOR REFERENCE PLAN

REVISIONS:

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CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A132

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B1 3RD FLOOR FF&E
A133 1/8" = 1'-0"

GENERAL NOTES - FF&E

1. REFER TO G005 AND G006 FOR ACCESSIBILITY DETAILS AND TYPICAL MOUNTING HEIGHTS.
2. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR CABINETS, EQUIPMENT, TOILET ACCESSORIES OR WHERE REQUIRED OTHERWISE.
3. PRIOR TO EQUIPMENT INSTALLATION, CONTRACTOR TO COORDINATE AN EQUIPMENT MEETING WITH OWNER/ARCHITECT TO FINALIZE ELECTRICAL ROUGH-IN WORK AND MOUNTING REQUIREMENTS.
4. CONTRACTOR TO COORDINATE WITH VENDOR EQUIPMENT INSTALLATION. PROVIDE REQUIRED MEP SUPPORT NEEDED FOR ALL VENDOR EQUIPMENT.
5. CONTRACTOR TO VERIFY REQUIREMENTS OF ALL EQUIPMENT, INCLUDING VENDOR INSTALL EQUIPMENT PRIOR TO INSTALLATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR ADDITIONAL REQUIREMENTS NOT PROVIDED.
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7. REFER TO MEP DRAWINGS IN CONJUNCTION WITH THIS SHEET. WHERE CONFLICTS ARISE, NOTIFY ARCHITECT.
8. REFER TO VENDOR DRAWINGS FOR EQUIPMENT INFORMATION. FINAL LAYOUT DETERMINED BY SYSTEM INTEGRATOR.

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	
CC10	ELEVATOR - 2500#
CC11	ELEVATOR - 3500# STRETCHER COMPLIANT
CC12	ELEVATOR (DOH)
CC20	SLIDING TRACK SHELVING HIGH DENSITY STORAGE SYSTEM
CC30	MIRROR
CC31	RECESSED BABY CHANGING STATION
CC32	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE
CC34	GRAB BARS ADA REQUIRED
CC39	SOAP DISPENSER - SURFACE MTD.
CC40	HAND SANITIZER DISPENSER - SURFACE MTD.
CC41	SURFACE MOUNTED TOILET PAPER DISPENSER - SURFACE MTD.
OWNER PROVIDED / CONTRACTOR INSTALLED	
OC11	55" LCD FLATSCREEN TV
OC12	96" LCD FLATSCREEN TV
OWNER PROVIDED / OWNER INSTALLED	
OO1	MICROWAVE
OO2	36" REFRIGERATOR
OO3	36" FREEZER
OO4	36" FRENCH DOOR REFRIGERATOR
OO6	REFRIGERATOR - UNDER COUNTER
OO9	COFFEE MAKER SYSTEM
OO20	COMPUTER W/ KEYBOARD AND MOUSE
OO21	DESK PHONE

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
OO22	XEROX COPIER
OO23	XEROX MULTIFUNCTION
OO25	FLOOR SAFE
OO32	42" LATERAL FILING CABINET

FURNITURE SCHEDULE

MARK	DESCRIPTION
OWNER PROVIDED / OWNER INSTALLED	
F1	SIDE CHAIR
F2	TASK CHAIR WITH CASTERS
F3	CHAIR, STACKABLE, WITHOUT ARMS
F5	CREDENZA 60" x 18"
F7	DESK - 60" X 30"
F8	DESK 84" x 36"
F9	DESK - L SHAPE 5' X 5'
F10	DESK - L SHAPE 5' X 6'
F11	DESK - L SHAPE 6' X 4'
F12	DESK - L SHAPE 6' X 6'
F20	ROCKER CHAIR
F21	LOUNGE CHAIR
F22	SOFA 54"
F23	SOFA 72"
F30	CONFERENCE TABLE 96" X 48"
F32	CONFERENCE TABLE 144" X 48"
F33	TABLE ROUND (36"DIA)
F35	TABLE ROUND (60" DIA)
F36	SIDE TABLE 20" X 20"
F39	SIDE TABLE 36" x 24"
F43	TABLE 60" X 30"
F45	TABLE 72" x 30"
F46	TABLE 30" X 30"

FURNITURE SCHEDULE

MARK	DESCRIPTION
F50	CUBICLE WORK STATION 71" X 105"
F51	CUBICLE WORK STATION 78" x 96"
F52	CUBICLE WORK STATION 88" X 90"
F55	CUBICLE WORK STATION 91" x 96"

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
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- (ACOUSTIC / INSULATED) TO CEILING +6"
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*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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3RD FLOOR FF&E PLAN

REVISIONS:

No.	Description	Date

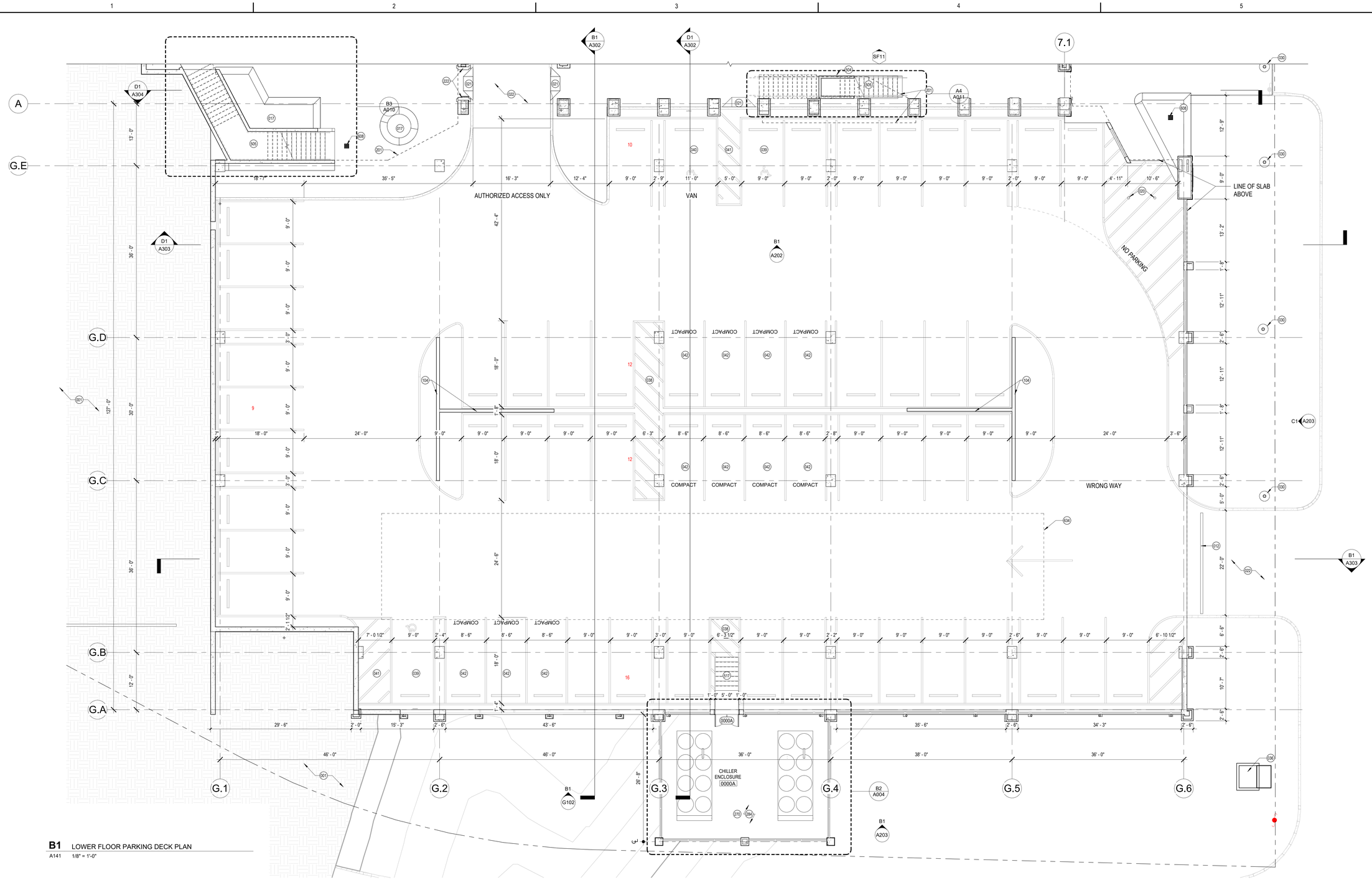
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CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A133

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION



B1 LOWER FLOOR PARKING DECK PLAN
A141 1/8" = 1'-0"

GENERAL REFERENCE NOTES

1. PROVIDE CONTINUOUS IN-WALL BLOCKING OR STRAPPING AS REQUIRED FOR ANY CASEWORK, WALL-MOUNTED EQUIPMENT, OR ACCESSORIES INDICATED ON PLAN. REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
2. REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINTS; GC SHALL EQUALLY SPACE VERTICAL CONTROL JOINTS ON ALL WALLS THAT EXCEED 25 LINEAR FEET IN LENGTH TO DIVIDE THE WALL INTO EQUALLY SPACED SECTIONS THAT ARE LESS THAN 25 LINEAR FEET IN LENGTH. WHERE CONTROL JOINTS ARE LOCATED OPPOSING WALLS IN ANY GIVEN SPACE, THEY SHALL BE ALIGNED AND SPACED SUCH THAT NO SECTION IS GREATER THAN 25 LINEAR FEET IN LENGTH.
3. GENERAL CONTRACTOR TO ADD FACILITY LABELS OF RATED ASSEMBLIES, VALVE LOCATIONS, ETC. COORDINATE WITH OWNER DURING CONSTRUCTION.
4. REFER TO SHEETS A610 FOR STOREFRONT AND WINDOW ELEVATIONS.
5. CONTRACTOR TO REVIEW SCOPE OF WORK WITH OTHER DISCIPLINES FOR COORDINATION - CONTACT ARCHITECT IF ANY CONDITIONS CONFLICT WITH SCOPE OF WORK OR ARE IN QUESTION.

GENERAL DIMENSION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES GREATER THAN 2" PRIOR TO FRAMING WALLS.
2. ALL INTERIOR PARTITIONS ARE TYPE M43 UNLESS NOTED OTHERWISE. REFER TO G201 FOR PARTITION TYPES.
3. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AT NEW WALLS, FACE OF STUD TO FACE OF EXTERIOR WALLS, AND FACE OF STUD TO FINISH FACE OF EXISTING WALLS WHERE SHOWN. ASSUME 5" NOMINAL WIDTHS OF STUD WALLS UNLESS OTHER WISE NOTED.
4. LOCATE DOORS 4" FROM HINGE SIDE TYPICALLY, UNLESS OTHERWISE SHOWN. AT LATCH SIDE OF DOOR PROVIDE A MINIMUM OF 18" CLEAR SPACE ON PULL SIDE OF DOOR AND 12" ON THE PUSH SIDE.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS.

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
001	BELOW GRADE
012	MOTORIZED VEHICLE ACCESS GATE - SEE CIVIL
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
020	BOLLARD WITH LIGHTING
021	ADA CURB RAMP - SEE CIVIL
022	CONCRETE WALKWAY - WHERE WALKWAY ABUTS EXTERIOR WALL IT MUST SLOPE AWAY FROM THE BUILDING AT NO MORE THAN 2%
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
036	NEW TRANSFORMER ON CONCRETE PAD
038	PARKING STRIPING
039	HANDICAP PARKING SPACE
040	HANDICAP VAN PARKING SPACE
041	HANDICAP LOADING ZONE
042	COMPACT PARKING SPACE
100 - WALLS AND OPENINGS	
104	CIP STRUCTURAL WALL SEE STRUCTURAL DRAWINGS
200 - ROOF & EXTERIOR	
201	OUTLINE OF STRUCTURE ABOVE
222	CAST STONE PORTAL SURROUND - PROFILE C
270	OPEN METAL GRATE FLOORING OVER GRADE
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE

KEYNOTES - NEW WORK

500 - VERTICAL CIRCULATION	
504	ANODIZED ALUMINUM CANE RAIL
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
517	GALVANIZED STEEL ACCESS STAIR WITH RAILING
600 - COORDINATION	
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
634	STORM WATER RETENTION SYSTEM - SEE CIVIL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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LOWER FLOOR PARKING DECK PLAN

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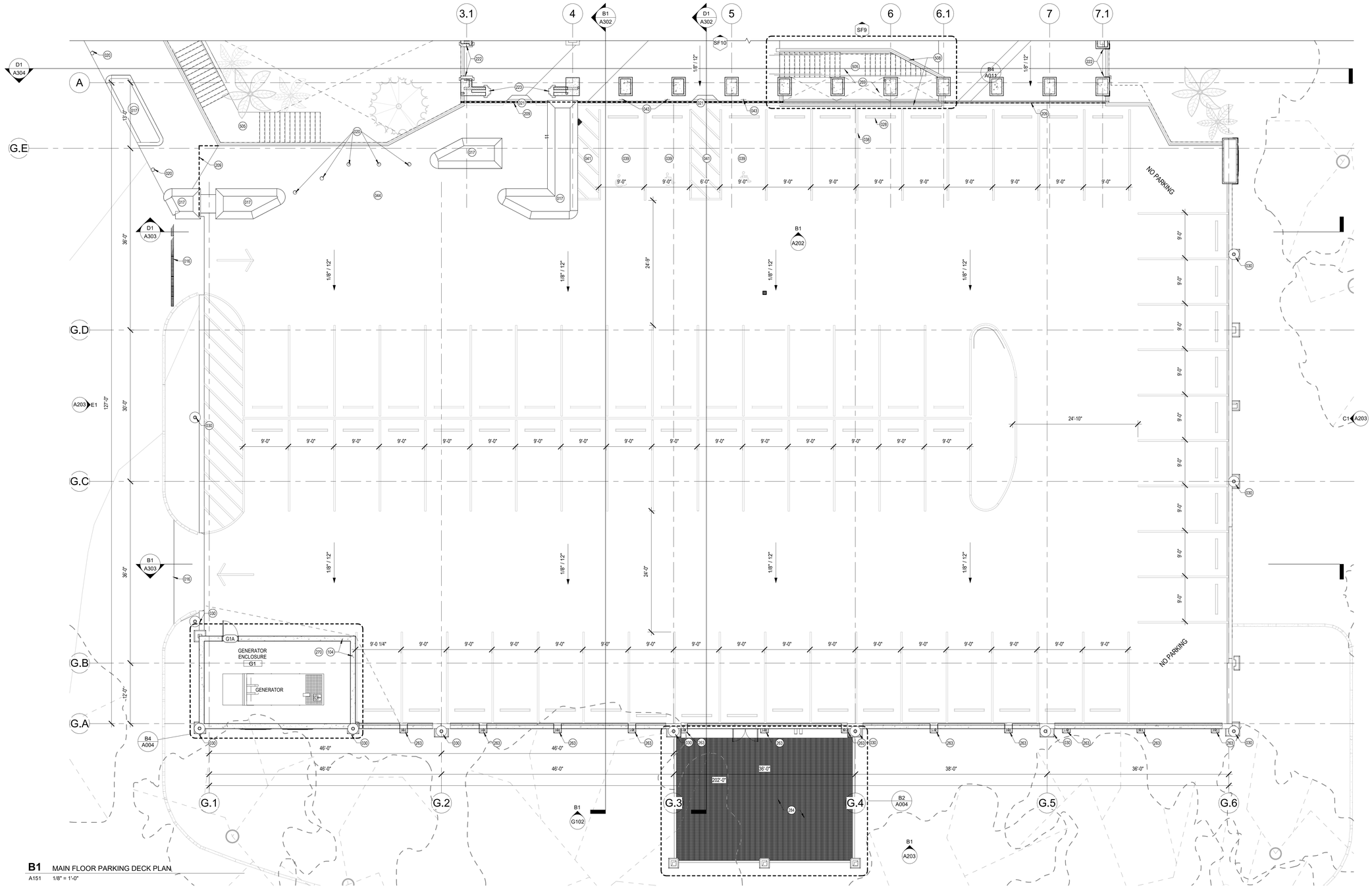
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B1 MAIN FLOOR PARKING DECK PLAN
A151 1/8" = 1'-0"

GENERAL REFERENCE NOTES

1. PROVIDE CONTINUOUS IN-WALL BLOCKING OR STRAPPING AS REQUIRED FOR ANY CASEWORK, WALL-MOUNTED EQUIPMENT, OR ACCESSORIES INDICATED ON PLAN. REFER TO G006 FOR TYPICAL MOUNTING HEIGHTS.
2. REFER TO SPECIFICATIONS FOR GYPSUM BOARD CONTROL JOINTS; GC SHALL EQUALLY SPACE VERTICAL CONTROL JOINTS ON ALL WALLS THAT EXCEED 25 LINEAR FEET IN LENGTH TO DIVIDE THE WALL INTO EQUALLY SPACED SECTIONS THAT ARE LESS THAN 25 LINEAR FEET IN LENGTH. WHERE CONTROL JOINTS ARE LOCATED OPPOSING WALLS IN ANY GIVEN SPACE, THEY SHALL BE ALIGNED AND SPACED SUCH THAT NO SECTION IS GREATER THAN 25 LINEAR FEET IN LENGTH.
3. GENERAL CONTRACTOR TO ADD FACILITY LABELS OF RATED ASSEMBLIES, VALVE LOCATIONS, ETC. COORDINATE WITH OWNER DURING CONSTRUCTION.
4. REFER TO SHEETS A610 FOR STOREFRONT AND WINDOW ELEVATIONS.
5. CONTRACTOR TO REVIEW SCOPE OF WORK WITH OTHER DISCIPLINES FOR COORDINATION - CONTACT ARCHITECT IF ANY CONDITIONS CONFLICT WITH SCOPE OF WORK OR ARE IN QUESTION.

KEYNOTES - NEW WORK

#	DESCRIPTION
	000 - SITE
016	TRENCH DRAIN - REFER TO CIVIL/ PLUMBING
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
020	BOLLARD WITH LIGHTING
021	ADA CURB RAMP - SEE CIVIL
028	CONCRETE WHEEL STOP
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
038	PARKING STRIPING
039	HANDICAP PARKING SPACE
041	HANDICAP LOADING ZONE
043	HANDICAP PARKING SIGN
044	PASSENGER LOADING ZONE
	100 - WALLS AND OPENINGS
104	CIP STRUCTURAL WALL SEE STRUCTURAL DRAWINGS
	200 - ROOF & EXTERIOR
209	BUILDING EXPANSION JOINT AND EXPANSION JOINT COVER - SEE STRUCTURAL DRAWINGS
222	CAST STONE PORTAL SURROUND - PROFILE C
223	CAST STONE PORTAL SURROUND - PROFILE D
263	ROOF DRAIN WALL SCUPPER WITH COLLECTORHEAD, HEAVY GUAGE ALUMINUM DOWNSPOUT - CONNECT TO UNDERGROUND PIPING - SEE CIVIL
269	LIGHT WELL AND EXTERIOR STAIR - SLAB OPENING TO LEVEL BELOW
270	OPEN METAL GRATE FLOORING OVER GRADE
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE

KEYNOTES - NEW WORK

500 - VERTICAL CIRCULATION	
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
508	ANODIZED ALUMINUM GUARDRAIL

GENERAL DIMENSION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES GREATER THAN 2" PRIOR TO FRAMING WALLS.
2. ALL INTERIOR PARTITIONS ARE TYPE M43 UNLESS NOTED OTHERWISE. REFER TO G201 FOR PARTITION TYPES.
3. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AT NEW WALLS, FACE OF STUD TO FACE OF EXTERIOR WALLS, AND FACE OF STUD TO FINISH FACE OF EXISTING WALLS WHERE SHOWN. ASSUME 5" NOMINAL WIDTHS OF STUD WALLS UNLESS OTHER WISE NOTED.
4. LOCATE DOORS 4" FROM HINGE SIDE TYPICALLY, UNLESS OTHERWISE SHOWN. AT LATCH SIDE OF DOOR PROVIDE A MINIMUM OF 18" CLEAR SPACE ON PULL SIDE OF DOOR AND 12" ON THE PUSH SIDE.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS.

GENERAL LEGEND

NON-RATED SMOKE PARTITION ... TO CEILING +6"
REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS
SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS. ...K ABOVE

1 HOUR SMOKE BARRIER — (ACOUSTIC / INSULATED) TO CEILING +6"
2 HOUR FIRE BARRIER — (ACOUSTIC / INSULATED) TO DECK ABOVE
2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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MAIN FLOOR PARKING DECK PLAN

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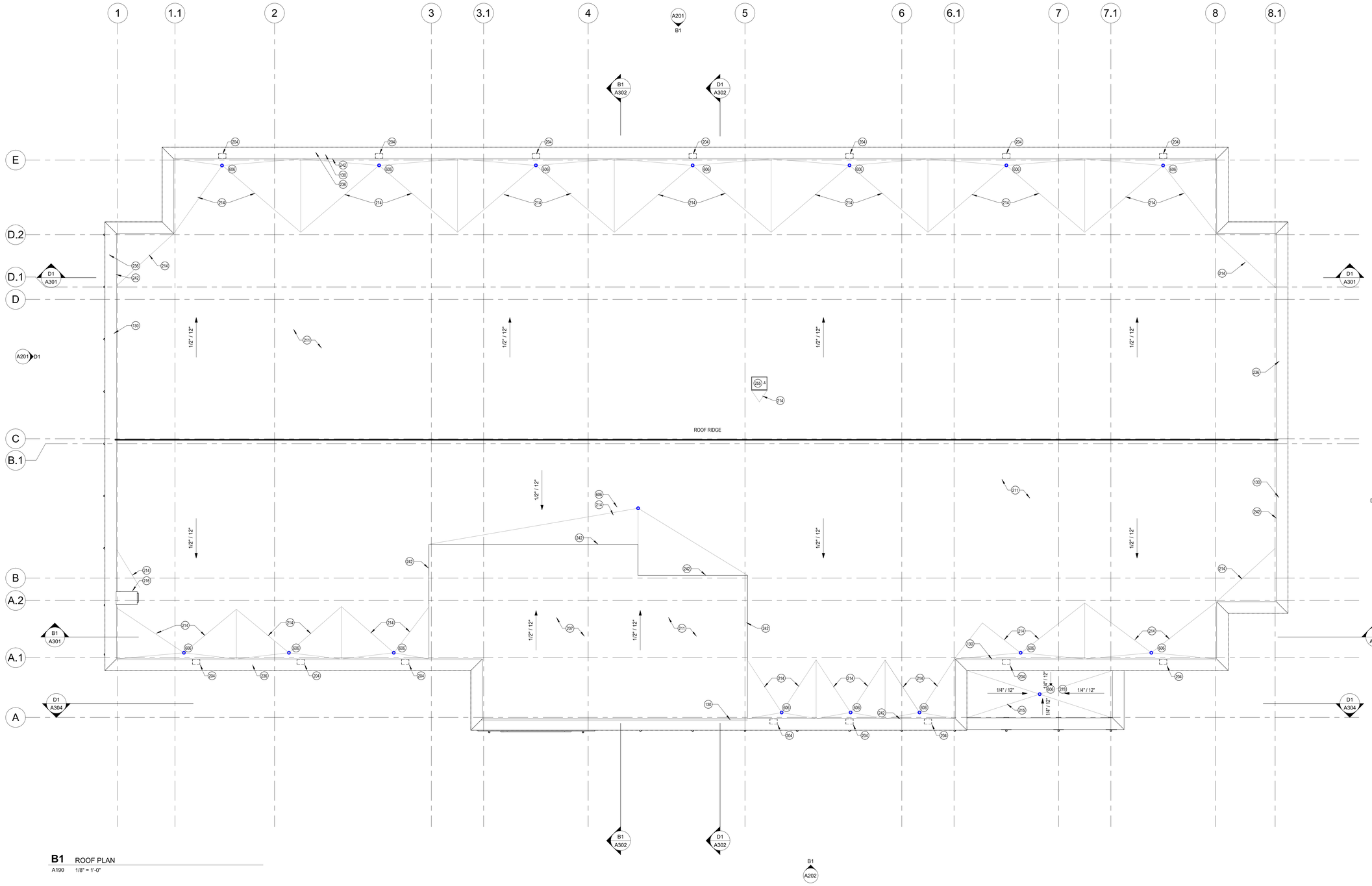
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B1 ROOF PLAN
A190 1/8" = 1'-0"

GENERAL ROOF NOTES

1. CONTRACTOR MUST NOTIFY ARCHITECT OF ANY UNFORESEEN CONDITIONS PRIOR TO PROCEEDING WITH WORK.
2. SEE MEP DRAWINGS FOR NEW ROOFTOP EQUIPMENT.
3. SEE SHEET A503 & A504 FOR ROOF DETAILS.
4. SEE STRUCTURAL DRAWINGS FOR SUPPORT OF ALL NEW ROOF CURBS.

KEYNOTES - NEW WORK

#	DESCRIPTION
	100 - WALLS AND OPENINGS
130	PARAPET; WRAP ROOF MEMBRANE AS DETAILED
	200 - ROOF & EXTERIOR
204	ALUMINUM THRU-WALL OVERFLOW SCUPPER
207	HIGH ROOF ABOVE TRAINING ROOM; REFER TO STRUCTURAL
211	REINFORCED LIQUID-APPLIED MEMBRANE ROOFING - TURN UP BACKSIDE OF PARAPET (TYP)
214	SLOPE CONCRETE SLAB TO CREATE SLOPE FOR ROOF DRAINAGE CRICKET. COORDINATE 1/2"/FT. MIN. SLOPE TO ROOF SCUPPERS, (TYP)
215	SLOPE CONCRETE SLAB TO CREATE SLOPE FOR CRICKET, (SLOPED 1/4"/FT.)
216	ROOF-MOUNTED MECHANICAL DOG HOUSE AT EXHAUST FAN
236	METAL COPING PARAPET CAP FLASHING
242	PARAPET FLASHING
255	INSULATED ROOF HATCH ON CURB
278	CANOPY ROOF - SINGLE-PLY ROOFING SYSTEM OVER CONCRETE ROOF SLAB - SLOPED TO DRAIN AT 1/4" / 12"
	600 - COORDINATION
606	INTERNAL ROOF DRAIN ASSEMBLY, PIPED VERTICALLY DOWN TO LOWER LEVEL AT NEAREST INTERIOR COLUMN LINE, AND PIPED LATERALLY OVERHEAD TO CISTERN

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

NORTH

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ROOF PLAN

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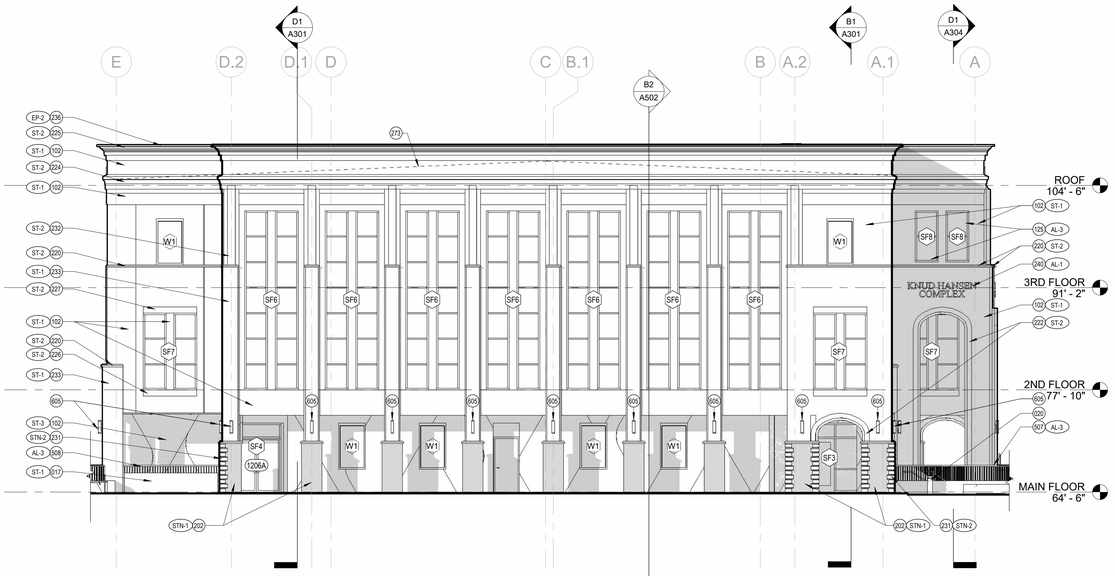
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D1 BUILDING ELEVATION - NORTH

A201 1/8" = 1'-0"



B1 BUILDING ELEVATION - EAST

A201 1/8" = 1'-0"

FINISH SELECTIONS - EXTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
100 - WALLS AND OPENINGS				
AL-1	ANODIZED ALUMINUM - BLACK	BLACK		
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT		
CLADDING				
EP-2	PAINT COLOR TBD			
EP-5	VARIES	SEE RCP FOR INTERIOR AND EXTERIOR CEILING MATERIALS AND FINISH INFORMATION		
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE		
ST-2	GRAY SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - GRAY		
ST-3	(3 COLORS - TBD) SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - MULTICOLOR		
STN-1	BLUE BIT STONE VENEER			
STN-2	MASONRY QUIONS			

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
014	CAST IN PLACE CONCRETE BENCH
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
020	BOLLARD WITH LIGHTING
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
100 - WALLS AND OPENINGS	
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
110	EXTERIOR ALUMINUM WINDOW SHADING DEVICE
111	ALUMINUM EXTERIOR LOUVER SYSTEM - FACTORY FINISH - SEE MECHANICAL FOR SIZING
125	H/HZ AND IR RATED ALUMINUM STOREFRONT ASSEMBLY, TYPICAL - SEE A610 STOREFRONT ELEVATIONS
126	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
200 - ROOF & EXTERIOR	
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
204	ALUMINUM THRU-WALL OVERFLOW SCUPPER
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
222	CAST STONE PORTAL SURROUND - PROFILE C
224	DECORATIVE CONCRETE CORNICE BAND - PROFILE E
225	DECORATIVE CONCRETE CORNICE BAND - PROFILE F
226	CONCRETE SILL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
227	CONCRETE HEADER WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
229	VERTICAL/ HORIZONTAL SCORE JOINT IN STUCCO FINISH
231	CONCRETE QUIONS
232	CONCRETE 'T' SHAPED PILASTER WITH FORMED ARCHITECTURAL TOP PROFILE

KEYNOTES - NEW WORK

233	REINFORCED CONCRETE RECTANGULAR PILASTER
236	METAL COPING PARAPET CAP FLASHING
240	10" ANODIZED ALUMINUM SIGNAGE LETTERS - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
260	MASONRY VENEER SHELF ANGLE, COORD. W/ STRUCT DWGS
273	SLOPE OF ROOF OR PARKING DECK SLAB BEYOND
500 - VERTICAL CIRCULATION	
501	CAST IN PLACE CONCRETE RAMP WITH ANODIZED ALUMINUM RAILING TO MEET ADA GUIDELINES WITH 1:12 MAXIMUM SLOPE.
506	ANODIZED ALUMINUM HANDRAIL
507	ANODIZED ALUMINUM EXTERIOR HANDRAIL AND GUARDRAIL
508	ANODIZED ALUMINUM GUARDRAIL
600 - COORDINATION	
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED
800 - FINISHES	
804	PAINTED STUCCO 'UNITED IN PRIDE AND HOPE' LETTERING - SEE SPEC

GENERAL ELEVATION NOTES

1. REFER TO ENLARGED ELEVATIONS FOR ADDITIONAL DIMENSIONS.
2. ALL EXTERIOR GLAZING TO MEET PROJECT REQUIREMENTS FOR IMPACT AND WIND RESISTANCE. SEE SPECIFICATIONS.

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EXTERIOR ELEVATIONS

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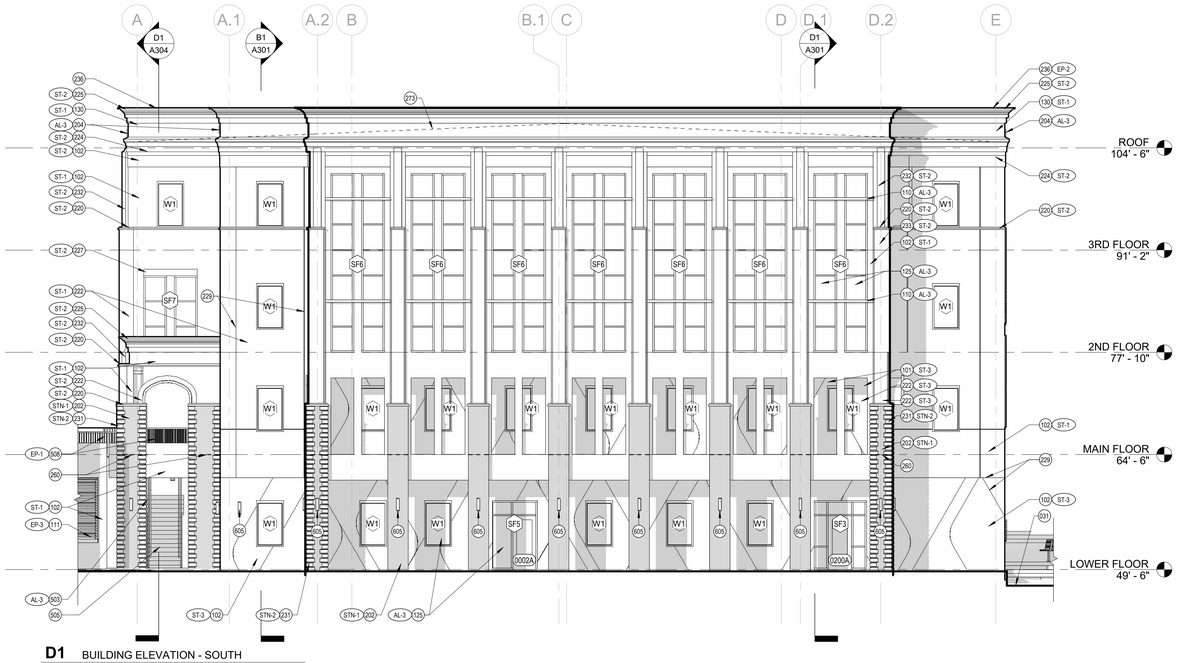
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D1 BUILDING ELEVATION - SOUTH

A202 1/8" = 1'-0"



B1 BUILDING ELEVATION - WEST

A202 1/8" = 1'-0"

FINISH SELECTIONS - EXTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
100 - WALLS AND OPENINGS				
AL-1	ANODIZED ALUMINUM - BLACK	BLACK		
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT		
CLADDING				
EP-1	PAINT COLOR TBD			
EP-2	PAINT COLOR TBD			
EP-3	CUSTOM 4 COLOR PATTERN - COLORS TBD			
EP-4	PAINT COLOR TBD			
EP-5	VARIES	SEE RCP FOR INTERIOR AND EXTERIOR CEILING MATERIALS AND FINISH INFORMATION		
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE		
ST-2	GRAY SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - GRAY		
ST-3	(3 COLORS - TBD) SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - MULTICOLOR		
STN-1	BLUE BIT STONE VENEER			
STN-2	MASONRY QUIONS			

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
031	FINISHED GRADE - SEE CIVIL
043	HANDICAP PARKING SIGN
100 - WALLS AND OPENINGS	
101	OPENING THROUGH WALL
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
110	EXTERIOR ALUMINUM WINDOW SHADING DEVICE
111	ALUMINUM EXTERIOR LOUVER SYSTEM - FACTORY FINISH - SEE MECHANICAL FOR SIZING
125	HVHZ AND IR RATED ALUMINUM STOREFRONT ASSEMBLY, TYPICAL - SEE A610 STOREFRONT ELEVATIONS
128	WALL NICHE WITH INTEGRATED LIGHTING - SEE DETAILS
130	PARAPET; WRAP ROOF MEMBRANE AS DETAILED
200 - ROOF & EXTERIOR	
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
204	ALUMINUM THRU-WALL OVERFLOW SCUPPER
213	HOLLOW METAL DOOR AS SCHEDULE
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
221	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE B
222	CAST STONE PORTAL SURROUND - PROFILE C
223	CAST STONE PORTAL SURROUND - PROFILE D
224	DECORATIVE CONCRETE CORNICE BAND - PROFILE E
225	DECORATIVE CONCRETE CORNICE BAND - PROFILE F
226	CONCRETE SILL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
227	CONCRETE HEADER WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH

KEYNOTES - NEW WORK

229	VERTICAL/ HORIZONTAL SCORE JOINT IN STUCCO FINISH
231	CONCRETE QUIONS
232	CONCRETE 'T' SHAPED PILASTER WITH FORMED ARCHITECTURAL TOP PROFILE
233	REINFORCED CONCRETE RECTANGULAR PILASTER
236	METAL COPING PARAPET CAP FLASHING
240	10" ANODIZED ALUMINUM SIGNAGE LETTERS - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
260	MASONRY VENEER SHELF ANGLE, COORD. W/ STRUCT DWGS
264	SPECIALTY LIGHT FIXTURES AS SCHEDULED
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
273	SLOPE OF ROOF OR PARKING DECK SLAB BEYOND
500 - VERTICAL CIRCULATION	
503	ANODIZED ALUMINUM HANDRAIL & GUARDRAIL
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
508	ANODIZED ALUMINUM GUARDRAIL
600 - COORDINATION	
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED
700 - RCP	
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

GENERAL ELEVATION NOTES

1. REFER TO ENLARGED ELEVATIONS FOR ADDITIONAL DIMENSIONS.
2. ALL EXTERIOR GLAZING TO MEET PROJECT REQUIREMENTS FOR IMPACT AND WIND RESISTANCE. SEE SPECIFICATIONS.

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A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

EXTERIOR ELEVATIONS

REVISIONS:

No.	Description	Date

DRAWN BY: Author

CHECKED BY: JT

DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49

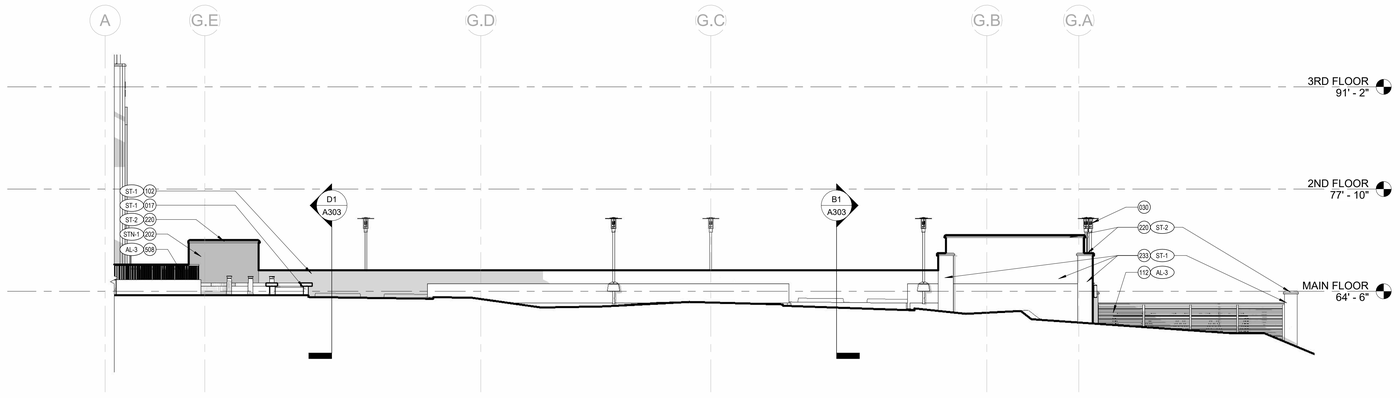
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A202

B: 30% CONSTRUCTION DOCUMENTS

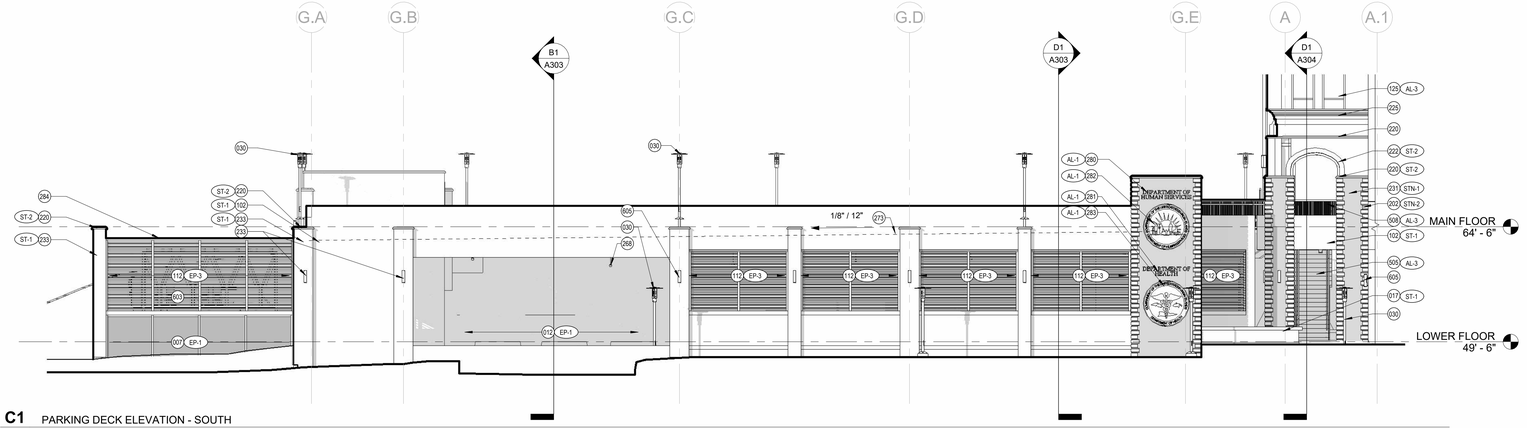
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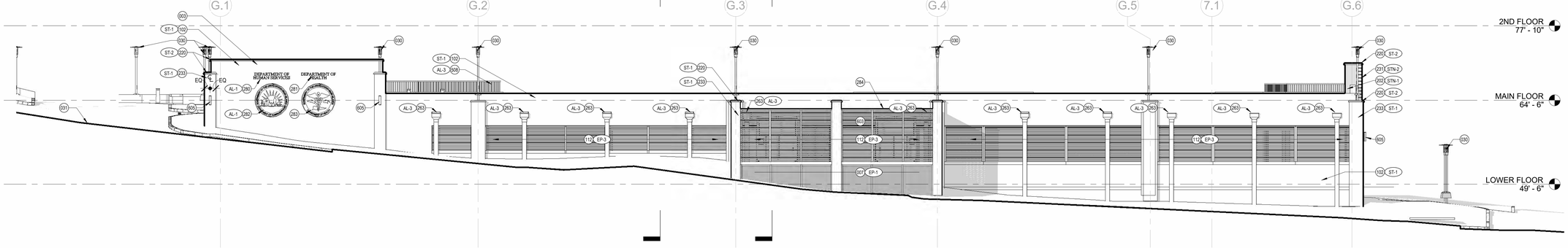
E1 PARKING DECK ELEVATION - NORTH

A203 1/8" = 1'-0"



C1 PARKING DECK ELEVATION - SOUTH

A203 1/8" = 1'-0"



B1 PARKING DECK ELEVATION - WEST

A203 1/8" = 1'-0"

FINISH SELECTIONS - EXTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
100 - WALLS AND OPENINGS				
AL-1	ANODIZED ALUMINUM - BLACK	BLACK		
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT		
CLADDING				
EP-1	PAINT COLOR TBD			
EP-3	CUSTOM 4 COLOR PATTERN - COLORS TBD			
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE		
ST-2	GRAY SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - GRAY		
STN-1	BLUE BIT STONE VENEER			
STN-2	MASONRY QUIONS			

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
003	GENERATOR ENCLOSURE
007	CHAINLINK FENCE SKIRT
012	MOTORIZED VEHICLE ACCESS GATE - SEE CIVIL
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
031	FINISHED GRADE - SEE CIVIL
100 - WALLS AND OPENINGS	
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
125	HVHZ AND IR RATED ALUMINUM STOREFRONT ASSEMBLY, TYPICAL - SEE A610 STOREFRONT ELEVATIONS
200 - ROOF & EXTERIOR	
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
222	CAST STONE PORTAL SURROUND - PROFILE C
225	DECORATIVE CONCRETE CORNICE BAND - PROFILE F
231	CONCRETE QUIONS
233	REINFORCED CONCRETE RECTANGULAR PILASTER
263	ROOF DRAIN WALL SCUPPER WITH COLLECTORHEAD, HEAVY GUAGE ALUMINUM DOWNSPOUT - CONNECT TO UNDERGROUND PIPING - SEE CIVIL
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
273	SLOPE OF ROOF OR PARKING DECK SLAB BEYOND
280	0'-6" ANODIZED ALUMINUM SIGNAGE LETTERS (DHS) - REFER TO SHEET XX FOR ADDITIONAL INFORMATION

KEYNOTES - NEW WORK

281	0'-6" ANODIZED ALUMINUM SIGNAGE LETTERS (DOH) - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
282	ANODIZED ALUMINUM SIGNAGE DEPARTMENT OF HUMAN SERVICES LOGO - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
283	ANODIZED ALUMINUM SIGNAGE DEPARTMENT OF HEALTH LOGO - REFER TO SHEET XX FOR ADDITIONAL INFORMATION
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE
500 - VERTICAL CIRCULATION	
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
508	ANODIZED ALUMINUM GUARDRAIL
600 - COORDINATION	
603	MECHANICAL EQUIPMENT YARD - COORDINATE DRAINAGE & EQUIPMENT WITH MECHANICAL DRAWINGS
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED

GENERAL ELEVATION NOTES

1. REFER TO ENLARGED ELEVATIONS FOR ADDITIONAL DIMENSIONS.
2. ALL EXTERIOR GLAZING TO MEET PROJECT REQUIREMENTS FOR IMPACT AND WIND RESISTANCE. SEE SPECIFICATIONS.

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St. Thomas, US. Virgin Islands 00802

EXTERIOR ELEVATIONS - PARKING DECK

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A203

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION



D1 BUILDING SECTION FACING EAST A

A301 1/8" = 1'-0"



B1 BUILDING SECTION FACING EAST B

A301 1/8" = 1'-0"

KEYNOTES - NEW WORK

000 - SITE	
020	BOLLARD WITH LIGHTING
100 - WALLS AND OPENINGS	
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
109	CISTERN COMPARTMENT/ CHAMBER, SEE SPECS FOR SPECIALTY WATERPROOFING SYSTEM REQUIRED.
110	EXTERIOR ALUMINUM WINDOW SHADING DEVICE
125	WHZ AND IR RATED ALUMINUM STOREFRONT ASSEMBLY, TYPICAL - SEE A610 STOREFRONT ELEVATIONS
126	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
130	PARAPET; WRAP ROOF MEMBRANE AS DETAILED
131	SELF-ADHERED SHEET WATERPROOFING BELOW GRADE
200 - ROOF & EXTERIOR	
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
204	ALUMINUM THRU-WALL OVERFLOW SCUPPER
207	HIGH ROOF ABOVE TRAINING ROOM; REFER TO STRUCTURAL
211	REINFORCED LIQUID-APPLIED MEMBRANE ROOFING - TURN UP BACKSIDE OF PARAPET (TYP)
212	SPRAY FOAM INSULATION (R-38 MIN) AT UNDERSIDE OF CONCRETE ROOF STRUCTURE, AS SCHEDULED. INTUMESCENT PAINT COATING.
216	ROOF-MOUNTED MECHANICAL DOG HOUSE AT EXHAUST FAN
217	FLUID APPLIED MEMBRANE ROOFING SYSTEM OVER CAST IN PLACE CONCRETE ROOF STRUCTURE, (SEE STRUCT DWGS)
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
221	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE B
222	CAST STONE PORTAL SURROUND - PROFILE C
224	DECORATIVE CONCRETE CORNICE BAND - PROFILE E
225	DECORATIVE CONCRETE CORNICE BAND - PROFILE F
226	CONCRETE SILL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
227	CONCRETE HEADER WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH

KEYNOTES - NEW WORK

230	2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH OVER CAST IN PLACE CONCRETE AT PARAPET WALL
231	CONCRETE QUOINS
232	CONCRETE 'T' SHAPED PILASTER WITH FORMED ARCHITECTURAL TOP PROFILE
233	REINFORCED CONCRETE RECTANGULAR PILASTER
236	METAL COPING PARAPET CAP FLASHING
237	CONCRETE ROOF SLAB (SLOPED 1/2" / 12" (TYP) OVER STEEL ROOF STRUCTURE, PREPARE CONCRETE PER ROOFING MANUFACTURER REQUIREMENTS INCLUDING PRIMER AS REQUIRED
242	PARAPET FLASHING
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
300 - INTERIOR CONSTRUCTION & MILLWORK	
301	OPERABLE FOLDING PANEL ACOUSTIC WALL PARTITION - WITH DOOR PANEL (MIN STC-50)
400 - FFE	
413	INTERIOR WORK STATION ACOUSTIC FURNITURE SYSTEM
600 - COORDINATION	
606	INTERNAL ROOF DRAIN ASSEMBLY, PIPED VERTICALLY DOWN TO LOWER LEVEL AT NEAREST INTERIOR COLUMN LINE, AND PIPED LATERALLY OVERHEAD TO CISTERN
620	REINFORCED CONCRETE STRUCTURAL COLUMN - SEE STRUCTURAL
622	HOSE BIBB; REFER TO PLUMBING
623	CIP FOOTINGS SEE STRUCTURAL DRAWINGS
632	SLAB ON GRADE
636	CONCRETE CISTERN LID TO BE FLUSH WITH ADJACENT SLABS - SEE STRUCTURAL
700 - RCP	
714	SUSPENDED ACOUSTIC CEILING BAFFLES
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

GENERAL SECTION NOTES

1. BUILDING SECTIONS ARE DIAGRAMMATIC; REFER TO WALL SECTIONS FOR DETAILS AND DIMENSIONS.

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BUILDING SECTIONS

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B: 30% CONSTRUCTION DOCUMENTS

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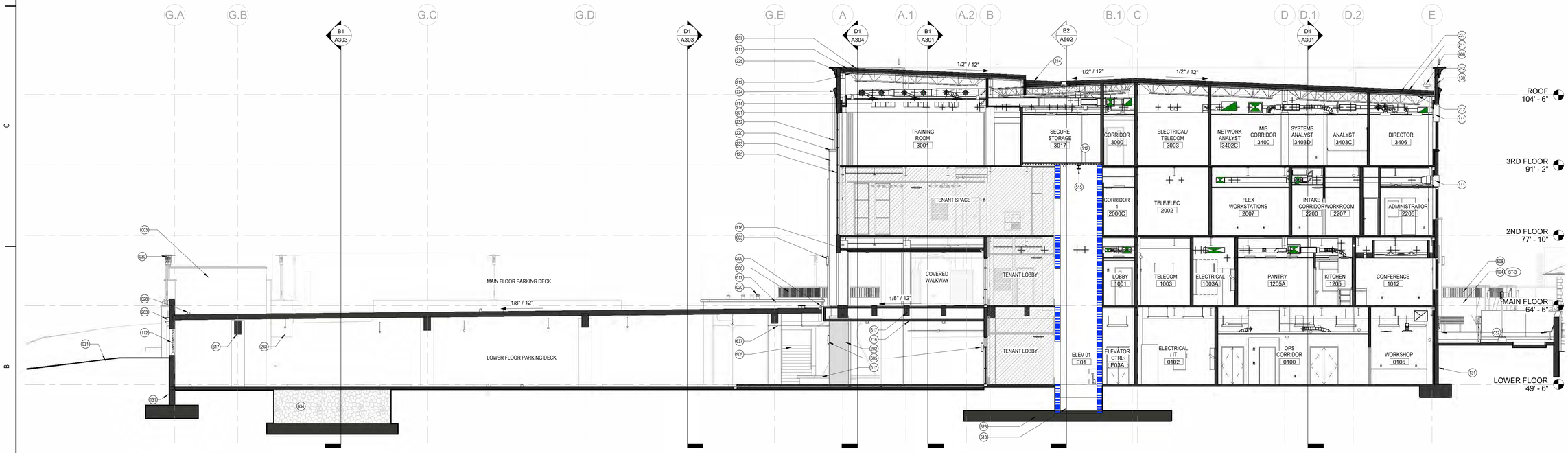
NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A301



D1 BUILDING SECTION FACING NORTH A

A302 1/8" = 1'-0"



B1 BUILDING SECTION FACING NORTH C1

A302 1/8" = 1'-0"

KEYNOTES - NEW WORK

#	DESCRIPTION
	000 - SITE
003	GENERATOR ENCLOSURE
007	CHAINLINK FENCE SKIRT
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
020	BOLLARD WITH LIGHTING
028	CONCRETE WHEEL STOP
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
031	FINISHED GRADE - SEE CIVIL
032	STEP STREET - NORTH TO SOUTH ACCESSIBLE ROUTE BETWEEN NEW CONSTRUCTION AND HISTORIC STRUCTURES
034	CHILLER EQUIPMENT AS SPECIFIED BY MEP
035	CHILLER PIPING - SEE MEP
	100 - WALLS AND OPENINGS
104	CIP STRUCTURAL WALL SEE STRUCTURAL DRAWINGS
111	ALUMINUM EXTERIOR LOUVER SYSTEM - FACTORY FINISH - SEE MECHANICAL FOR SIZING
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
125	HVHZ AND IR RATED ALUMINUM STOREFRONT ASSEMBLY, TYPICAL - SEE A610 STOREFRONT ELEVATIONS
130	PARAPET; WRAP ROOF MEMBRANE AS DETAILED
131	SELF-ADHERED SHEET WATERPROOFING BELOW GRADE
	200 - ROOF & EXTERIOR
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
204	ALUMINUM THRU-WALL OVERFLOW SCUPPER
207	HIGH ROOF ABOVE TRAINING ROOM; REFER TO STRUCTURAL
209	BUILDING EXPANSION JOINT AND EXPANSION JOINT COVER - SEE STRUCTURAL DRAWINGS

KEYNOTES - NEW WORK

211	REINFORCED LIQUID-APPLIED MEMBRANE ROOFING - TURN UP BACKSIDE OF PARAPET (TYP)
212	SPRAY FOAM INSULATION (R-38 MIN) AT UNDERSIDE OF CONCRETE ROOF STRUCTURE, AS SCHEDULED. INTUMESCENT PAINT COATING.
214	SLOPE CONCRETE SLAB TO CREATE SLOPE FOR ROOF DRAINAGE CRICKET. COORDINATE 1/2"/FT. MIN. SLOPE TO ROOF SCUPPERS, (TYP)
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
224	DECORATIVE CONCRETE CORNICE BAND - PROFILE E
225	DECORATIVE CONCRETE CORNICE BAND - PROFILE F
232	CONCRETE 'T' SHAPED PILASTER WITH FORMED ARCHITECTURAL TOP PROFILE
233	REINFORCED CONCRETE RECTANGULAR PILASTER
237	CONCRETE ROOF SLAB (SLOPED 1/2" / 12" (TYP) OVER STEEL ROOF STRUCTURE, PREPARE CONCRETE PER ROOFING MANUFACTURER REQUIREMENTS INCLUDING PRIMER AS REQUIRED
242	PARAPET FLASHING
263	ROOF DRAIN WALL SCUPPER WITH COLLECTORHEAD, HEAVY GUAGE ALUMINUM DOWNSPOUT - CONNECT TO UNDERGROUND PIPING - SEE CIVIL
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
270	OPEN METAL GRATE FLOORING OVER GRADE
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE
	300 - INTERIOR CONSTRUCTION & MILLWORK
301	OPERABLE FOLDING PANEL ACOUSTIC WALL PARTITION - WITH DOOR PANEL (MIN STC-50)
	500 - VERTICAL CIRCULATION
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
508	ANODIZED ALUMINUM GUARDRAIL
512	RAISED FLOOR TO ACCOMODATE ELEVATOR SHAFT CEILING - SEE STRUCTURAL
513	ELEVATOR PIT BELOW - COORDINATE PIT DEPTH AND SUMP WITH STRUCTURAL & ELEVATOR MANUFACTURER
515	ELEVATOR HOIST BEAM, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION

KEYNOTES - NEW WORK

	600 - COORDINATION
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED
606	INTERNAL ROOF DRAIN ASSEMBLY, PIPED VERTICALLY DOWN TO LOWER LEVEL AT NEAREST INTERIOR COLUMN LINE, AND PIPED LATERALLY OVERHEAD TO CISTERN
617	REINFORCED CONCRETE BEAM - SEE STRUCTURAL
618	STEEL FLOOR FRAMING - SEE STRUCTURAL
619	STEEL ROOF FRAMING - SEE STRUCTURAL
620	REINFORCED CONCRETE STRUCTURAL COLUMN - SEE STRUCTURAL
623	CIP FOOTINGS SEE STRUCTURAL DRAWINGS
634	STORM WATER RETENTION SYSTEM - SEE CIVIL
637	PIPING - SEE MEP
	700 - RCP
714	SUSPENDED ACOUSTIC CEILING BAFFLES
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

GENERAL SECTION NOTES

1. BUILDING SECTIONS ARE DIAGRAMMATIC; REFER TO WALL SECTIONS FOR DETAILS AND DIMENSIONS.

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BUILDING SECTIONS

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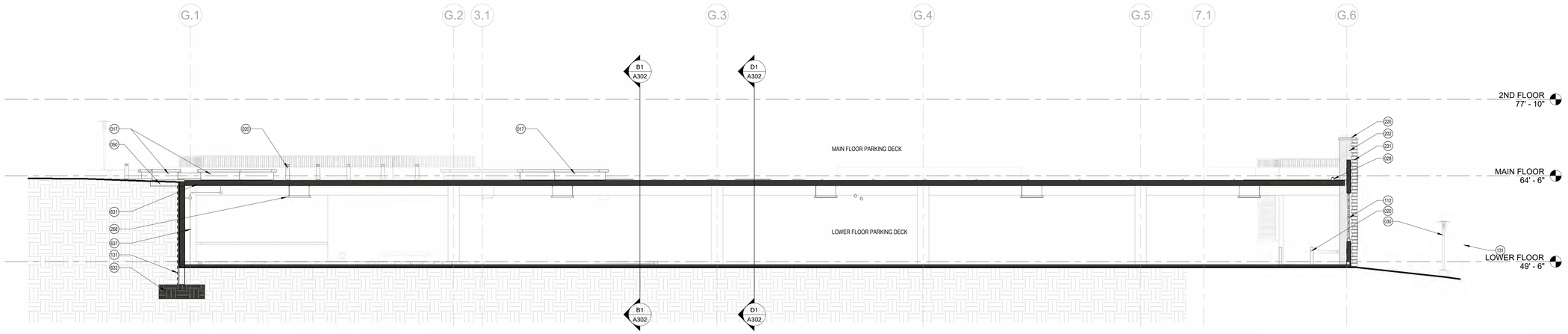
NOVUS JOB NUMBER 470-23-49
CDR TASK ORDER NUMBER 010-9-101918

SHEET NUMBER A302

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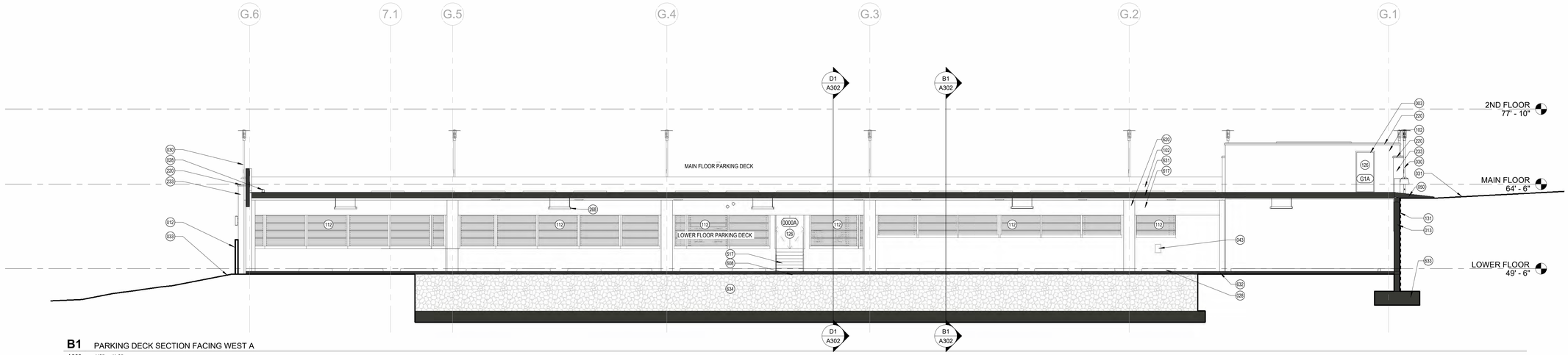
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D1 PARKING DECK SECTION FACING EAST A

A303 1/8" = 1'-0"



B1 PARKING DECK SECTION FACING WEST A

A303 1/8" = 1'-0"

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
003	GENERATOR ENCLOSURE
012	MOTORIZED VEHICLE ACCESS GATE - SEE CIVIL
013	RECONFIGURED RETAINING WALL - SEE CIVIL AND STRUCTURAL
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
020	BOLLARD WITH LIGHTING
028	CONCRETE WHEEL STOP
030	LIGHT POLE - SEE CIVIL / ELECTRICAL
031	FINISHED GRADE - SEE CIVIL
033	PARKING DECK ENTRY RAMP
043	HANDICAP PARKING SIGN
050	DRIVEWAY PAVING - SEE CIVIL
100 - WALLS AND OPENINGS	
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
126	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
131	SELF-ADHERED SHEET WATERPROOFING BELOW GRADE
200 - ROOF & EXTERIOR	
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
231	CONCRETE QUIONS
233	REINFORCED CONCRETE RECTANGULAR PILASTER
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED

KEYNOTES - NEW WORK

500 - VERTICAL CIRCULATION	
517	GALVANIZED STEEL ACCESS STAIR WITH RAILING
600 - COORDINATION	
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
617	REINFORCED CONCRETE BEAM - SEE STRUCTURAL
620	REINFORCED CONCRETE STRUCTURAL COLUMN - SEE STRUCTURAL
631	POST-TENSIONED DECK WITH 1/4"/12" SLOPE, SEE STRUCTURAL
632	SLAB ON GRADE
633	REINFORCED CONCRETE FOUNDATION - SEE STRUCTURAL
634	STORM WATER RETENTION SYSTEM - SEE CIVIL
637	PIPING - SEE MEP

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

GENERAL SECTION NOTES

1. BUILDING SECTIONS ARE DIAGRAMMATIC; REFER TO WALL SECTIONS FOR DETAILS AND DIMENSIONS.

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BUILDING SECTIONS - PARKING DECK

REVISIONS:

No.	Description	Date

DRAWN BY: Author

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DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49

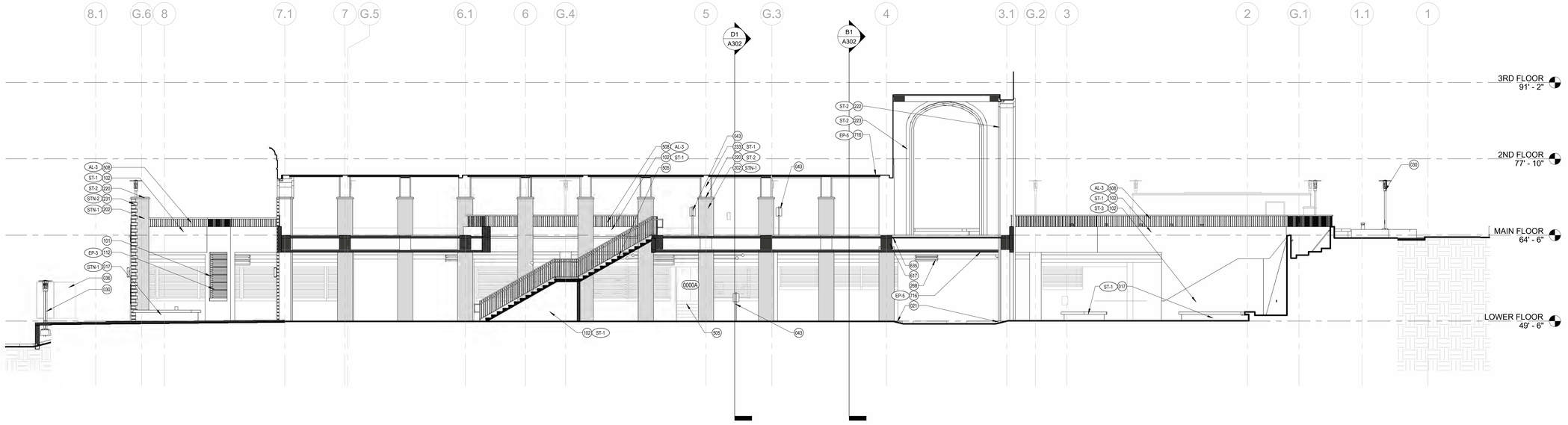
CDR TASK ORDER NUMBER
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SHEET NUMBER
A303

B: 30% CONSTRUCTION DOCUMENTS

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D1 PARKING DECK SECTION FACING WEST B

A304 1/8" = 1'-0"

FINISH SELECTIONS - EXTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
100 - WALLS AND OPENINGS				
AL-3	ANODIZED ALUMINUM - CLEAR	CLEAR ANODIZED ALUMINUM STOREFRONT		
CLADDING				
EP-3	CUSTOM 4 COLOR PATTERN - COLORS TBD			
EP-5	VARIES	SEE RCP FOR INTERIOR AND EXTERIOR CEILING MATERIALS AND FINISH INFORMATION		
ST-1	WHITE SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - WHITE		
ST-2	GRAY SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - GRAY		
ST-3	(3 COLORS - TBD) SYNTHETIC STUCCO	PIGMENTED TWO COAT REINFORCED SYNTHETIC STUCCO APPLIED TO CIP WALL STRUCTURE (MASTERWALL OR EQUAL) - MULTICOLOR		
STN-1	BLUE BIT STONE VENEER			
STN-2	MASONRY QUIONS			

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
017	CONCRETE PLANTER WITH BENCH SEAT - SEE CIVIL/PLUMBING FOR DRAINS
021	ADA CURB RAMP - SEE CIVIL
030	LIGHT POLE – SEE CIVIL / ELECTRICAL
036	NEW TRANSFORMER ON CONCRETE PAD
043	HANDICAP PARKING SIGN
100 - WALLS AND OPENINGS	
101	OPENING THROUGH WALL
102	CAST IN PLACE CONCRETE WALL WITH 2-COAT DIRECT APPLIED SYNTHETIC STUCCO FINISH
112	PARKING DECK SCREEN - PRE-ENGINEERED METAL MESH PANEL WITH CUSTOM COLOR PATTERN
200 - ROOF & EXTERIOR	
202	STONE VEENEER BASE TO MATCH HISTORIC BUILDINGS ONSITE
220	CONCRETE WALL CAP WITH SLOPED TOP - PROFILE A
222	CAST STONE PORTAL SURROUND - PROFILE C
223	CAST STONE PORTAL SURROUND - PROFILE D
231	CONCRETE QUIONS
233	REINFORCED CONCRETE RECTANGULAR PILASTER
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
500 - VERTICAL CIRCULATION	
505	CAST IN PLACE EXTERIOR SEALED CONCRETE STAIR WITH ANODIZED ALUMINUM RAILINGS - SEE STRUCTURAL
508	ANODIZED ALUMINUM GUARDRAIL

KEYNOTES - NEW WORK

600 - COORDINATION	
617	REINFORCED CONCRETE BEAM - SEE STRUCTURAL
635	ELEVATED REINFORCED CONCRETE SLAB
700 - RCP	
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

GENERAL SECTION NOTES

1. BUILDING SECTIONS ARE DIAGRAMMATIC; REFER TO WALL SECTIONS FOR DETAILS AND DIMENSIONS.

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BUILDING SECTIONS - PARKING DECK

REVISIONS:

No.	Description	Date

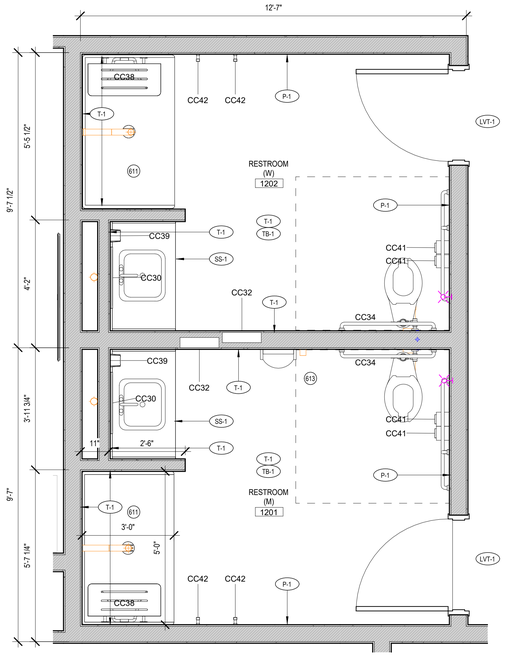
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CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A304

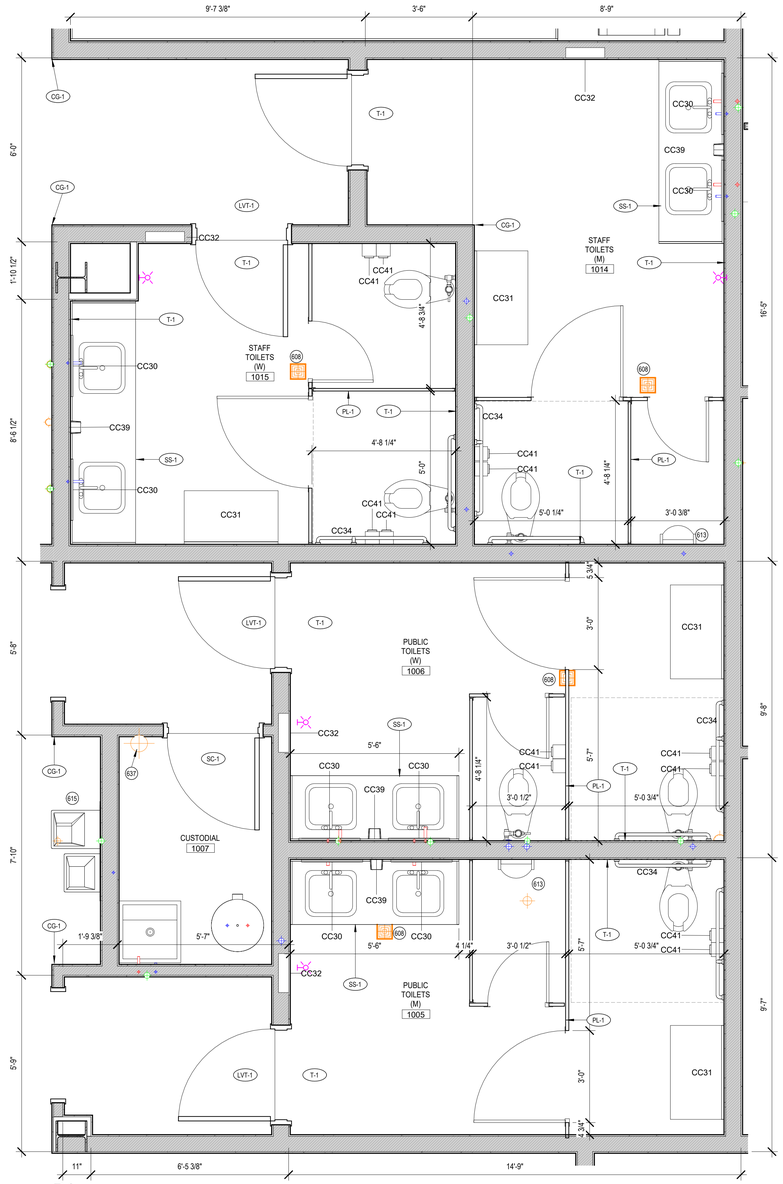
B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION



B3 STRIVE CENTER SHOWER ROOMS

A401 1/2" = 1'-0"



B4 TYPICAL RESTROOM CORE

A401 1/2" = 1'-0"

FINISH SELECTIONS - INTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
800 - FINISHES				
CG-1	CORNER GUARD 90 DEGREE	ACROVYN; 5M-20N; COLOR: TBD		4' HIGH
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT, TERRAIN II; COLOR: TBD	ASHLAR	
P-1	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		GENERAL WALL PAINT
PL-1	PLASTIC LAMINATE	WILSONART		
SC-1	STAINED CONCRETE			
SS-1	SOLID SURFACE, CORIAN	CORIAN, COLOR: TBD		COUNTERS AND WINDOW SILLS
T-1	PORCELAIN TILE 12x24	DALTILE; VIRTUO; COMPOSER VR11; 12"x24"		TOILET ROOM FLOORS AND WALLS
TB-1	TILE BASE	DALTILE; 6" H BASE		

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	
CC30	MIRROR
CC31	RECESSED BABY CHANGING STATION
CC32	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE
CC34	GRAB BARS ADA REQUIRED
CC38	FOLDING SHOWER SEAT
CC39	SOAP DISPENSER - SURFACE MTD.
CC41	SURFACE MOUNTED TOILET PAPER DISPENSER - SURFACE MTD.
CC42	COAT/ROBE HOOK
OWNER PROVIDED / CONTRACTOR INSTALLED	
OC11	55" LCD FLATSCREEN TV
OWNER PROVIDED / OWNER INSTALLED	
OO22	XEROX COPIER

KEYNOTES - NEW WORK

600 - COORDINATION	
608	SLOPE FLOOR TO DRAIN 1/8" / 12" - SEE PLUMBING/CIVIL
611	PREFABRICATED SHOWER UNITS, SEE PLUMBING DRAWINGS
613	URINAL, SEE PLUMBING DRAWINGS
615	DRINKING FOUNTAIN - SEE PLUMBING
637	PIPING - SEE MEP

MILLWORK GENERAL NOTES

1. INSTALL IN-WALL BLOCKING AS REQUIRED FOR WALL HUNG ACCESSORIES PER MANUF. REQUIREMENTS.
2. REFER TO **A9XX** FOR MATERIAL FINISH INFORMATION AND SPECIFICATIONS.
3. REFER TO SHEET **AXX** FOR FINISH DETAILS.
4. ALL CABINETS TO BE LOCKABLE.
5. ALL EXPOSED SURFACES TO BE FINISHED.
6. REFER TO SHEET **A4XX** FOR TYPICAL CASEWORK SECTIONS.

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ENLG TOILET ROOM PLANS

NOT FOR CONSTRUCTION

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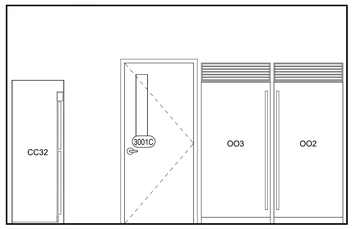
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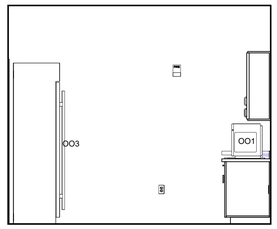
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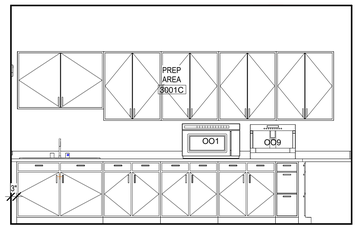
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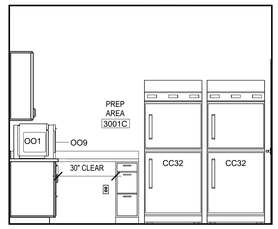
D1 PREP AREA - EAST
A451 3/8" = 1'-0"



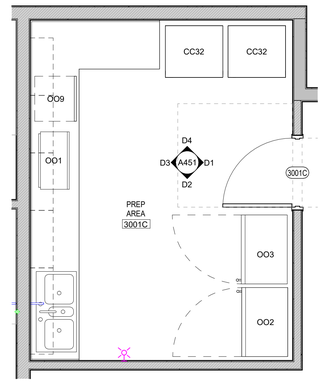
D2 PREP AREA - SOUTH
A451 3/8" = 1'-0"



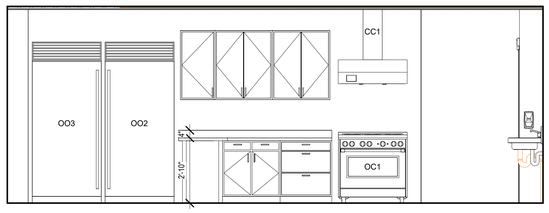
D3 PREP AREA - WEST
A451 3/8" = 1'-0"



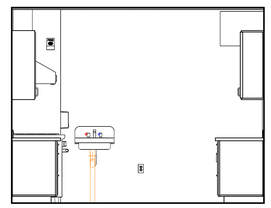
D4 PREP AREA - NORTH
A451 3/8" = 1'-0"



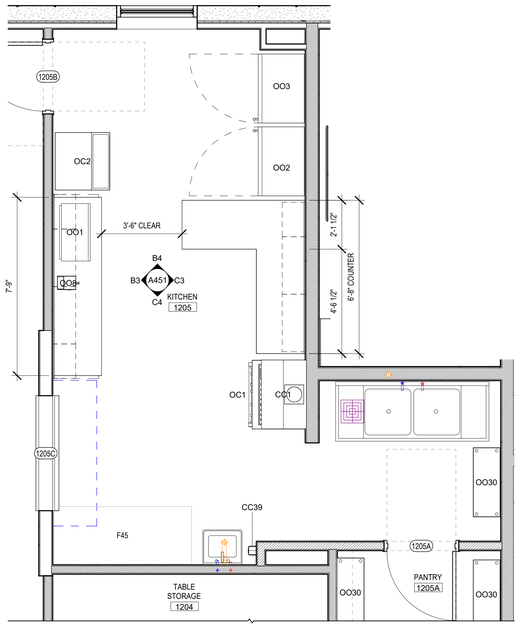
D5 PREP AREA AT TRAINING ROOM
A451 3/8" = 1'-0"



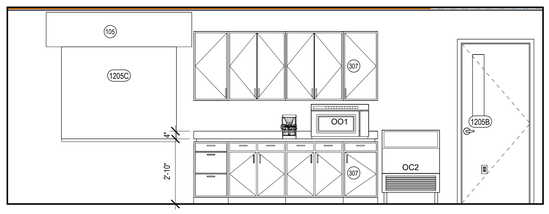
C3 STRIVE KITCHEN - EAST
A451 3/8" = 1'-0"



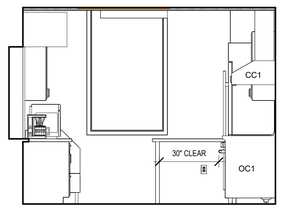
C4 STRIVE KITCHEN - SOUTH
A451 3/8" = 1'-0"



B5 ENLARGED PLAN - STRIVE KITCHEN
A451 3/8" = 1'-0"



B3 STRIVE KITCHEN - WEST
A451 3/8" = 1'-0"



B4 STRIVE KITCHEN - NORTH
A451 3/8" = 1'-0"

FINISH SELECTIONS - INTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS

EQUIPMENT SCHEDULE

MARK	DESCRIPTION
CONTRACTOR PROVIDED / CONTRACTOR INSTALLED	
CC1	GREENHECK FIRE READY RANGE HOOD GRRS-W-36-T-E-D-N
CC32	RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE
CC39	SOAP DISPENSER - SURFACE MTD.
OWNER PROVIDED / CONTRACTOR INSTALLED	
OC1	OVEN / RANGE
OC2	ICE MAKER
OC11	55" LCD FLATSCREEN TV
OWNER PROVIDED / OWNER INSTALLED	
OO1	MICROWAVE
OO2	36" REFRIGERATOR
OO3	36" FREEZER
OO6	REFRIGERATOR - UNDER COUNTER
OO8	COFFEE MAKER
OO9	COFFEE MAKER SYSTEM
OO20	COMPUTER W/ KEYBOARD AND MOUSE
OO21	DESK PHONE
OO30	STORAGE SHELVING UNIT

KEYNOTES - NEW WORK

100 - WALLS AND OPENINGS	
105	COILING COUNTER SHUTTER - SEE SPECS
300 - INTERIOR CONSTRUCTION & MILLWORK	
307	PLASTIC LAMINATE CABINETRY AND SOLID SURFACE COUNTERTOP - SEE MILLWORK DRAWINGS

MILLWORK GENERAL NOTES

1. INSTALL IN-WALL BLOCKING AS REQUIRED FOR WALL HUNG ACCESSORIES PER MANUF. REQUIREMENTS.
2. REFER TO **A8XX** FOR MATERIAL FINISH INFORMATION AND SPECIFICATIONS.
3. REFER TO SHEET **A3XX** FOR FINISH DETAILS.
4. ALL CABINETS TO BE LOCKABLE.
5. ALL EXPOSED SURFACES TO BE FINISHED.
6. REFER TO SHEET **A4XX** FOR TYPICAL CASEWORK SECTIONS.

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ENLG MILLWORK PLANS & ELEVATIONS

REVISIONS:

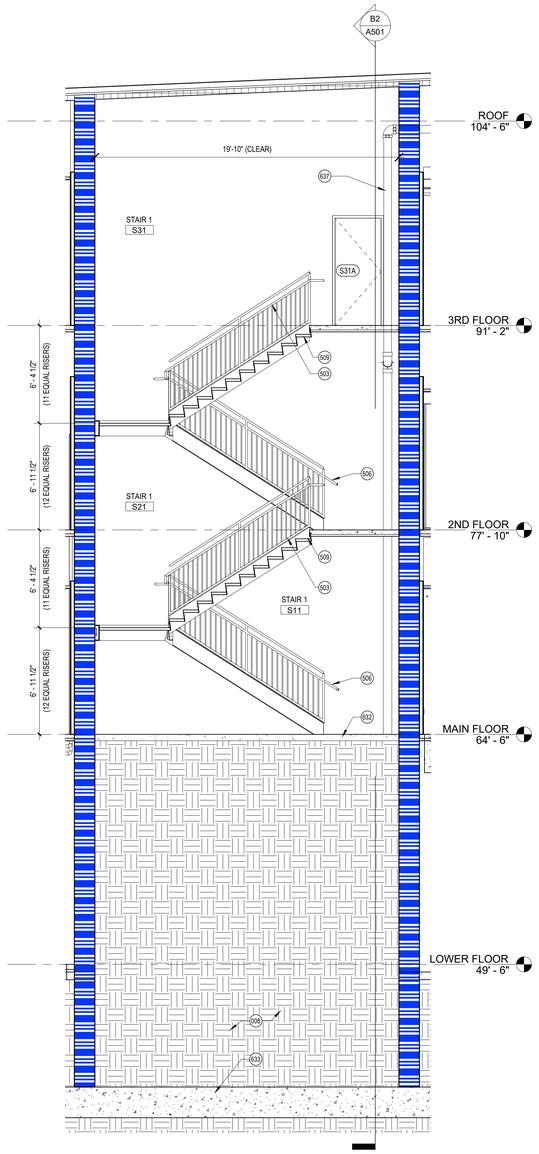
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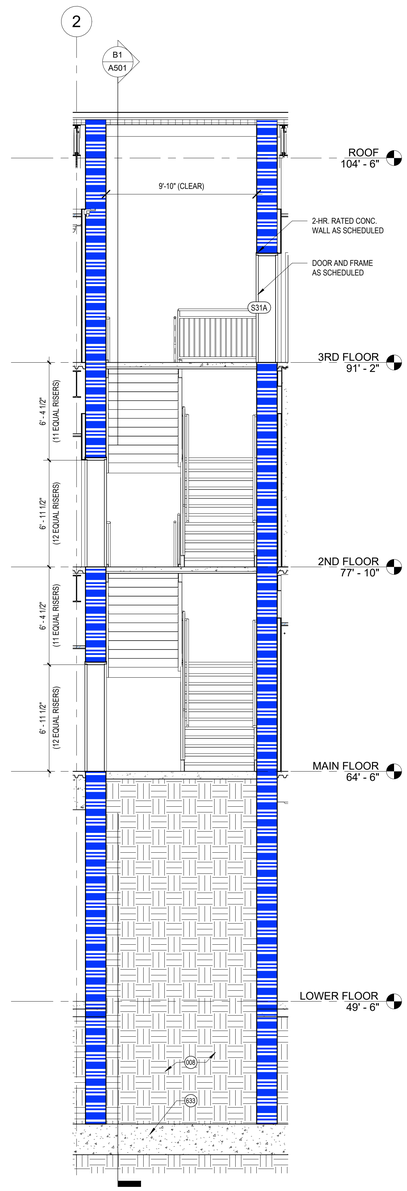
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ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A451

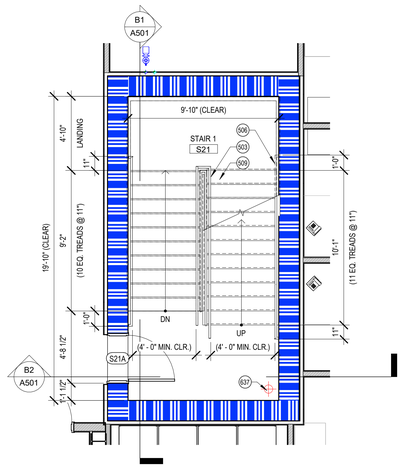
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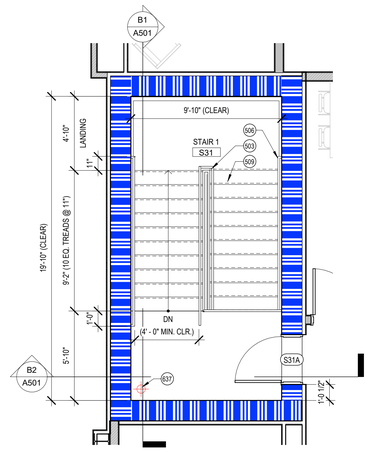
B1 STAIR 1 SECTION B
A501 1/4" = 1'-0"



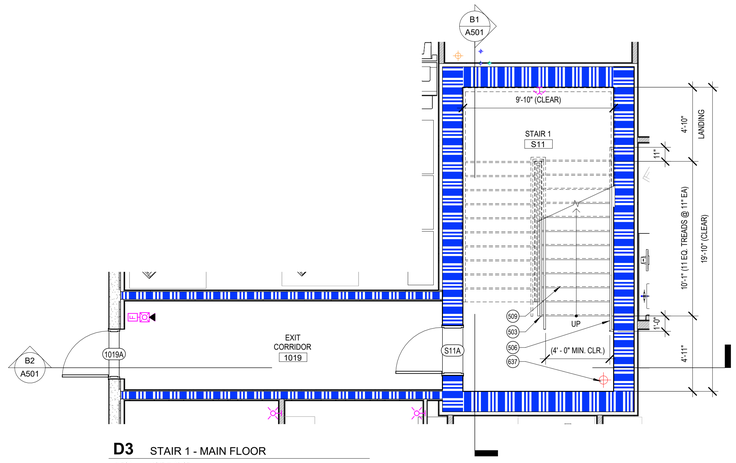
B2 STAIR 1 SECTION A
A501 1/4" = 1'-0"



B3 STAIR 1 - SECOND FLOOR
A501 1/4" = 1'-0"



B4 STAIR 1 - THIRD FLOOR
A501 1/4" = 1'-0"



D3 STAIR 1 - MAIN FLOOR
A501 1/4" = 1'-0"

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
008	BACKFILL
500 - VERTICAL CIRCULATION	
503	ANODIZED ALUMINUM HANDRAIL & GUARDRAIL
506	ANODIZED ALUMINUM HANDRAIL
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
600 - COORDINATION	
632	SLAB ON GRADE
633	REINFORCED CONCRETE FOUNDATION - SEE STRUCTURAL
637	PIPING - SEE MEP

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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VERTICAL CIRCULATION - STAIR 1

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No.	Description	Date

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DATE: 04/06/2026

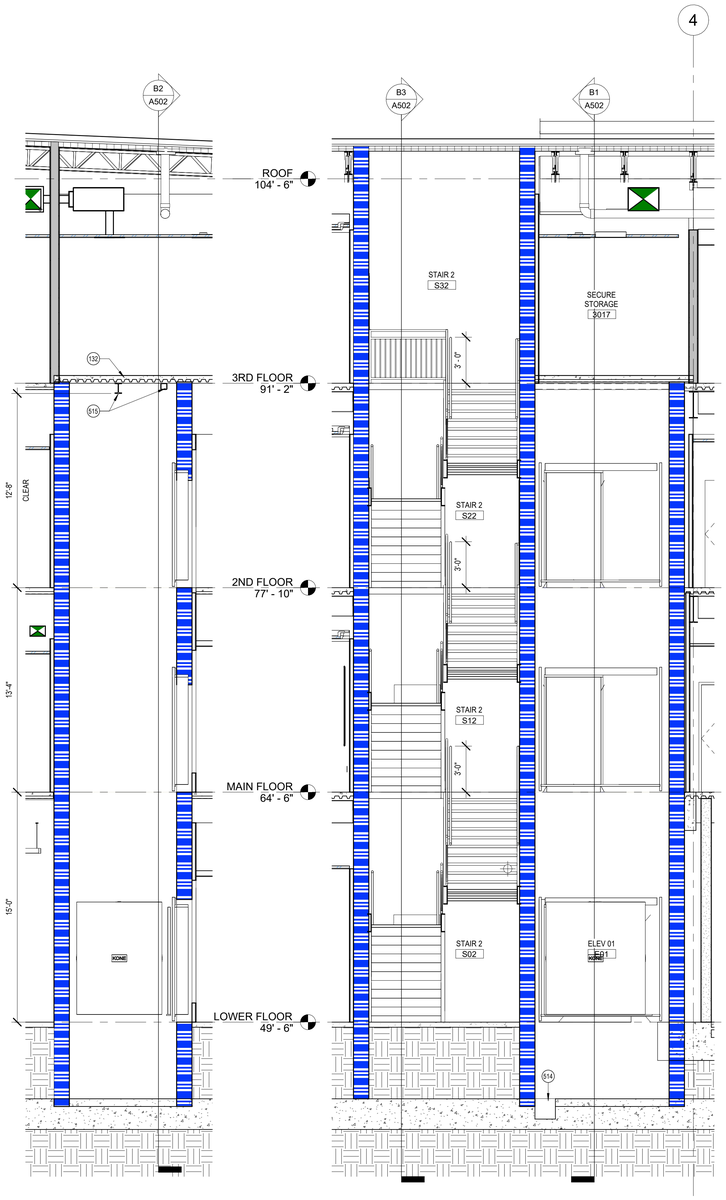
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470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
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B: 30% CONSTRUCTION DOCUMENTS

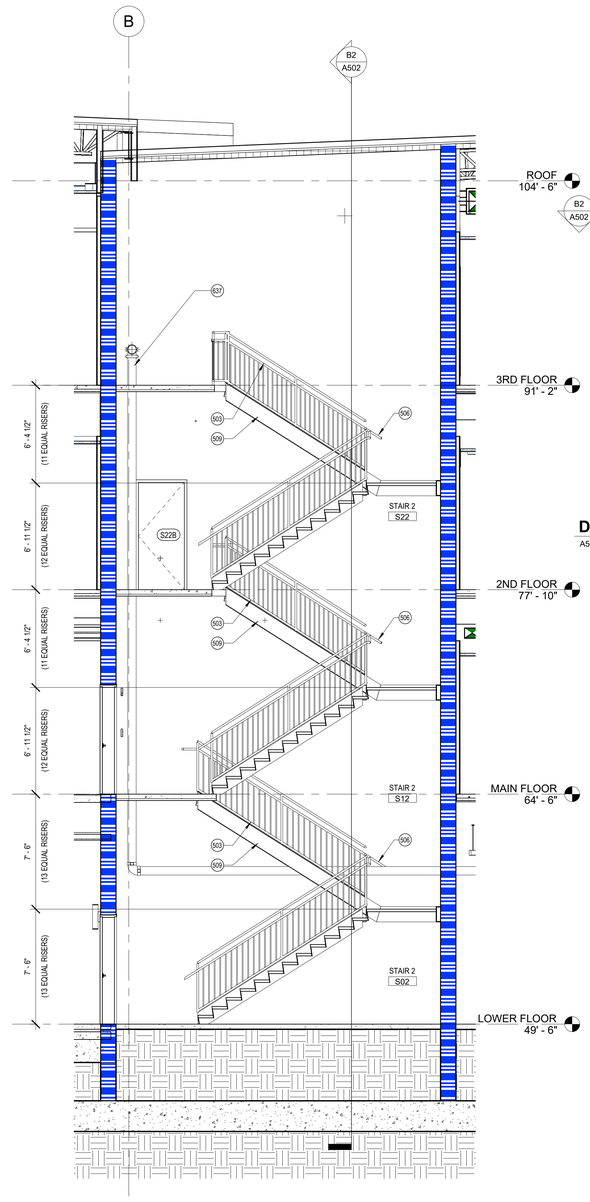
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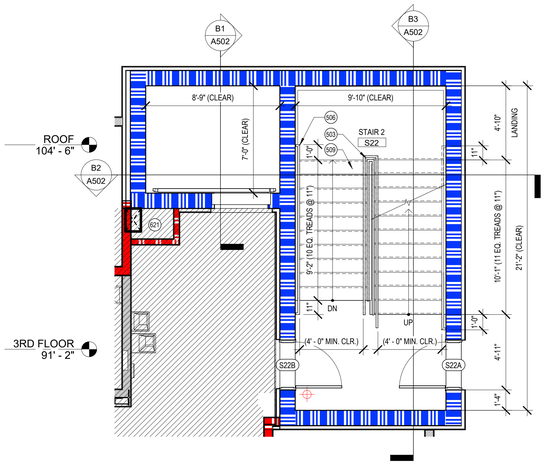


B1 ELEVATOR 1 SECTION B
A502 1/4" = 1'-0"

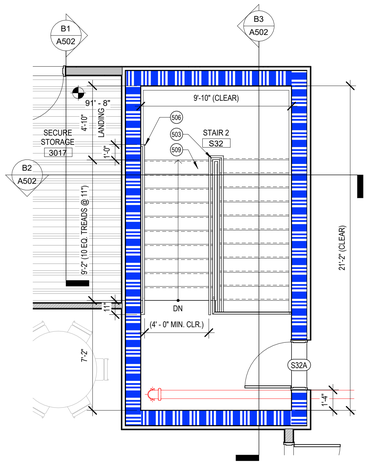
B2 ELEVATOR 1 SECTION A
A502 1/4" = 1'-0"



B3 STAIR 2 SECTION A
A502 1/4" = 1'-0"



D3 ELEVATOR 01 & STAIR 2 - MAIN FLOOR & SECOND FLOOR
A502 1/4" = 1'-0"



D4 ELEVATOR 01 & STAIR 2 - THIRD FLOOR
A502 1/4" = 1'-0"

B4 ELEVATOR 01 - PIT
A502 1/4" = 1'-0"

B5 ELEVATOR 01 & STAIR 2 - LOWER FLOOR
A502 1/4" = 1'-0"

KEYNOTES - NEW WORK

100 - WALLS AND OPENINGS	
132	LIGHTWEIGHT CONCRETE ON METAL DECK
500 - VERTICAL CIRCULATION	
503	ANODIZED ALUMINUM HANDRAIL & GUARDRAIL
506	ANODIZED ALUMINUM HANDRAIL
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS
514	ELEVATOR SUMP PUMP, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
515	ELEVATOR HOIST BEAM, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
600 - COORDINATION	
621	PIPE/ DUCT CHASE - SEE MEP
637	PIPING - SEE MEP

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY — U.S. VIRGIN ISLANDS

GOVERNMENT OF THE U.S. VIRGIN ISLANDS — DEPARTMENT OF HUMAN SERVICES

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Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

VERTICAL CIRCULATION - STAIR 2 & ELEVATOR 1

B: 30% CONSTRUCTION DOCUMENTS

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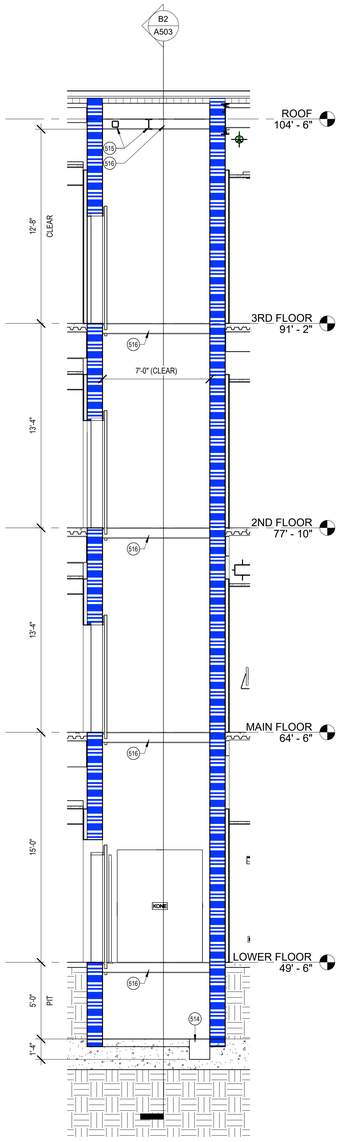
No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

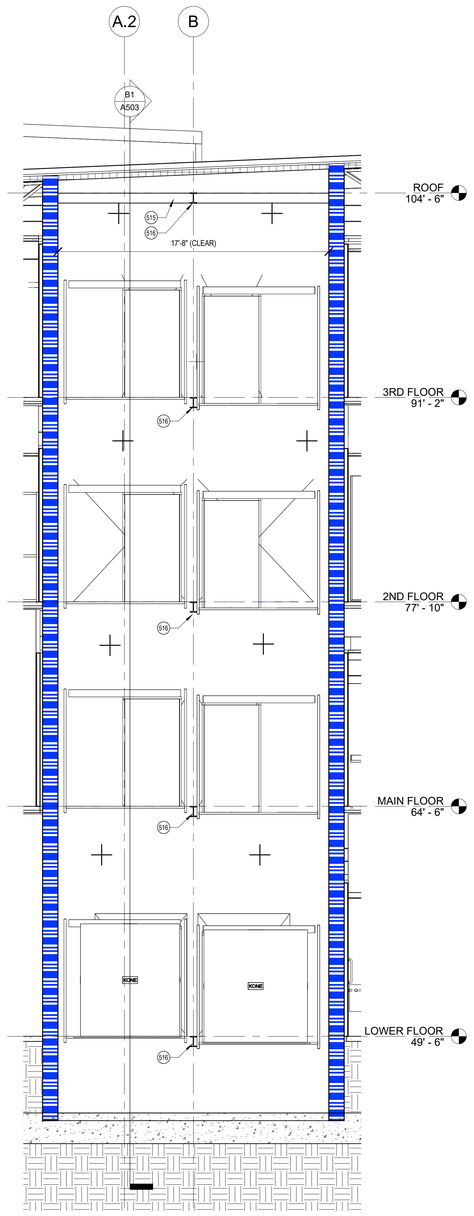
NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A502

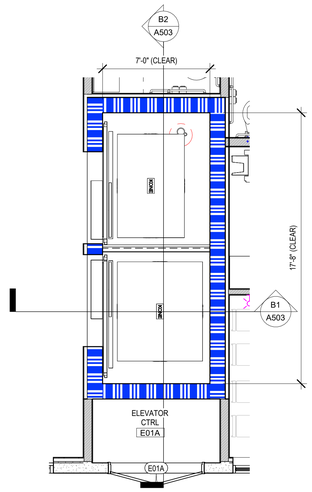
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B1 ELEVATOR 2 & 3 SECTION B
A503 1/4" = 1'-0"



B2 ELEVATOR 2 & 3 SECTION A
A503 1/4" = 1'-0"



D3 ELEVATOR 2 & 3 - LOWER FLOOR (MAIN & 2ND FLOOR SIMILAR)
A503 1/4" = 1'-0"

B3 ELEVATOR 2 & 3 - PIT
A503 1/4" = 1'-0"

KEYNOTES - NEW WORK

500 - VERTICAL CIRCULATION	
514	ELEVATOR SUMP PUMP, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
515	ELEVATOR HOIST BEAM, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION
516	ELEVATOR DIVIDER BEAM, SEE ELEVATOR SHOP DRAWINGS FOR EXACT SIZE AND LOCATION

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

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VERTICAL CIRCULATION - ELEVATOR 2 & 3

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

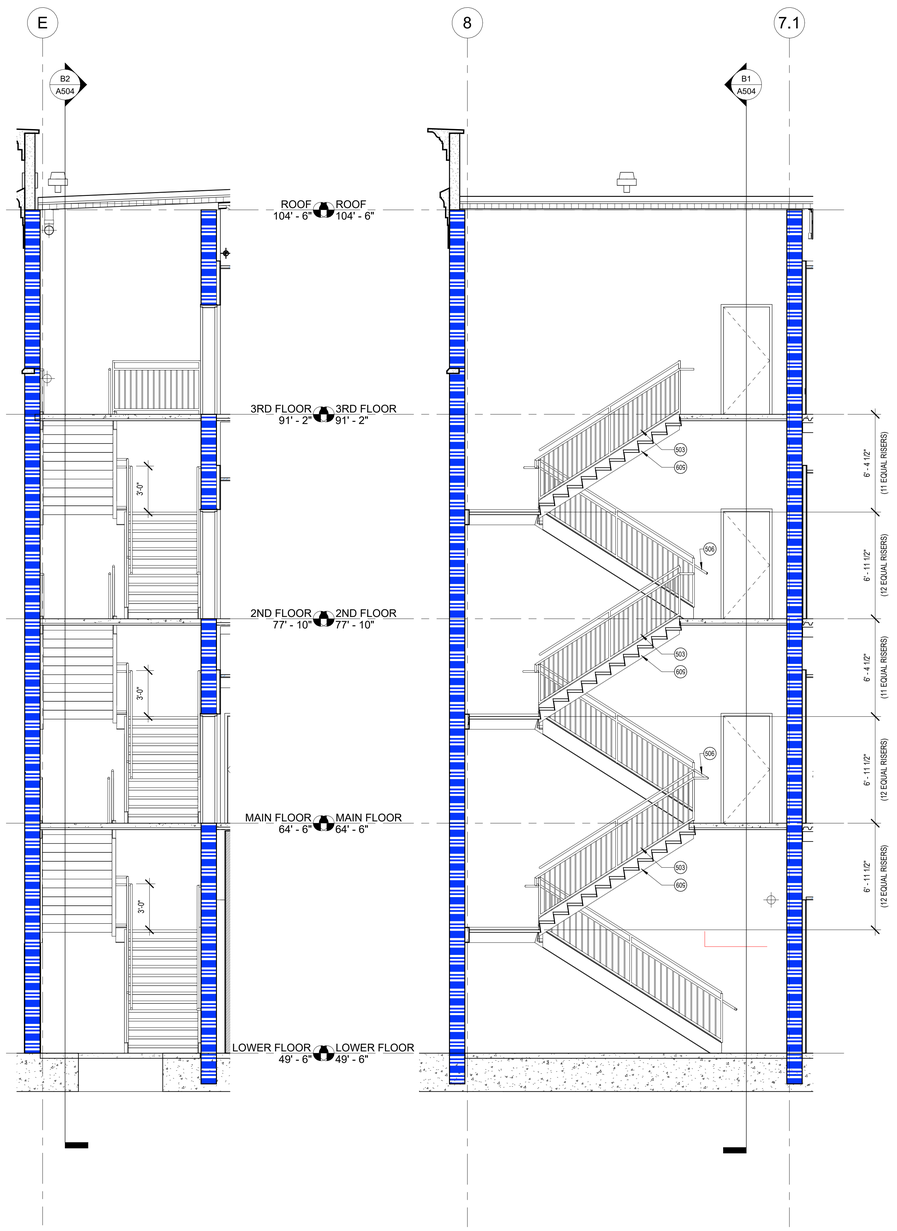
NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A503

B: 30% CONSTRUCTION DOCUMENTS

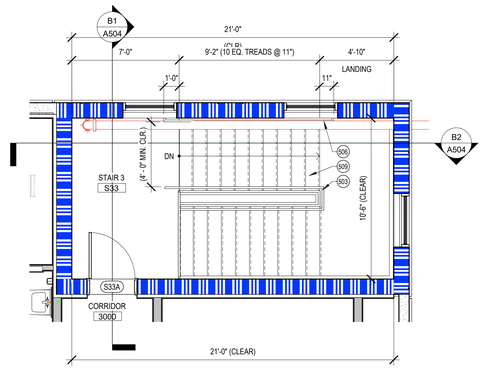
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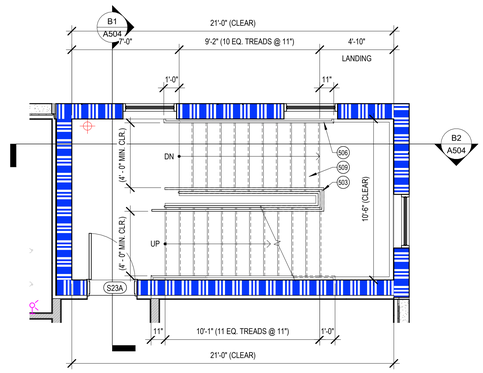


B1 STAIR 3 SECTION B
A504 1/4" = 1'-0"

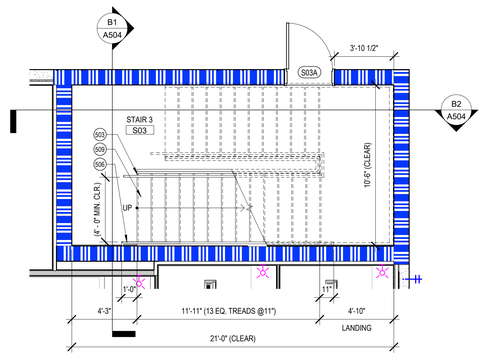
B2 STAIR 3 SECTION A
A504 1/4" = 1'-0"



C4 STAIR 3 - THIRD FLOOR
A504 1/4" = 1'-0"



C3 STAIR 3 - MAIN & SECOND FLOOR PLAN
A504 1/4" = 1'-0"



D3 STAIR 3 - LOWER FLOOR PLAN
A504 1/4" = 1'-0"

KEYNOTES - NEW WORK

500 - VERTICAL CIRCULATION	
503	ANODIZED ALUMINUM HANDRAIL & GUARDRAIL
506	ANODIZED ALUMINUM HANDRAIL
509	STEEL PAN STAIRS WITH SEALED CONCRETE TREADS

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
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- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
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VERTICAL CIRCULATION - STAIR 3

REVISIONS:

No.	Description	Date

DRAWN BY: Author
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DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A504

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B: 30% CONSTRUCTION DOCUMENTS

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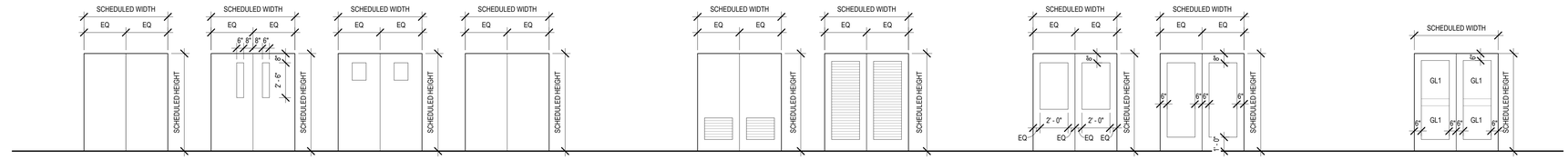
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DOOR AND HARDWARE SCHEDULE

DOOR #	#	NAME	FIRE RATING	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE	COMMENTS	DOOR #
LOWER FLOOR															
0000A	0000A	CHILLER ENCLOSURE		5' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT		CARD READER	0000A
0001A	0001	LOBBY		6' - 0"	7' - 0"		DSF	ALUM	ANOD	DSF	ALUM	ANOD		CARD READER	0001A
0002A	0002	DIPS CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	0002A
0003A	0003	STORAGE		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT			0003A
0004A	0004	PUBLIC TOILET		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0004A
0005A	0005	PUBLIC TOILET		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0005A
0006A	0006	CUST.		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0006A
0007A	0007	STAFF WC		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	0007A
0008A	0008	BREAKROOM		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	0008A
0009A	0009	COMP. ROOM		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		CARD READER	0009A
0011A	0011	PUMP		6' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0011A
0012A	0012	FIRE PUMP	45 MIN	6' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0012A
0100A	0001	LOBBY		5' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			0100A
0100B	0100	OPS CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	MM	HM	PAINT			0100B
0101A	0101	MECHANICAL		6' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0101A
0102A	0102	ELECTRICAL / IT		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT			0102A
0103A	0103	TOOLS		4' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0103A
0104A	0104	TOOLS		5' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0104A
0105A	0105	WORKSHOP		3' - 0"	7' - 0"	1 3/4"	N	HM	PAINT	HM	HM	PAINT			0105A
0106A	0106	TRANSPORT. DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0106A
0107A	0107	DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0107A
0108A	0108	CUSTODIAL OFFICE		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0108A
0109A	0109	DRIVERS' LOUNGE		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	0109A
0109B	0109	DRIVERS' LOUNGE		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	0109B
0109C	0109	DRIVERS' LOUNGE		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0109C
0110A	0110	CUST. SUPPLY		5' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0110A
0110B	0100	OPS CORRIDOR		5' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			0110B
0200A	0200	SCA CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	0200A
0200B	0002	DIPS CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		CARD READER	0200B
0200C	0200	SCA CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		CARD READER	0200C
0202A	0202	APS CASE WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0202A
0203A	0203	APS CASE WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0203A
0204A	0204	APS CASE WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0204A
0205A	0205	SNR NUTR. AIDE		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0205A
0207A	0207	NUTR. DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0207A
0208A	0208	HOME DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0208A
0209A	0209	FGRS DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0209A
0210A	0210	SCEP. DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0210A
0211A	0211	FCP ASST. DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0211A
0212A	0212	SUPPLIES		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0212A
0214A	0214	ASST. ADMIN		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0214A
0215A	0215	ADMINISTRATOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0215A
0216A	0216	FCP CASE WORKER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0216A
0217A	0217	I&R ID STAFF		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0217A
0218A	0218	I&R DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			0218A
0222A	0222	APS CASE WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0222A
0223A	0223	APS CASE WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0223A
0224A	0224	APS DIR. OFFICE		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0224A
0300A	0300	CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	0300A
0300B	0300	CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	0300B
0301A	0302	SOCIAL WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0301A
0302A	0302	SOCIAL WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0302A
0303A	0303A	WORKROOM		3' - 6"	7' - 0"	1 3/4"	CO	-		CO	HM	PAINT			0303A
0304A	0304	HOLDING ROOM		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		ANTI-LIGATURE HARDWARE & SPECIAL LOCKING	0304A
0304B	0304A	DETAINEE TOILET		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		ANTI-LIGATURE HARDWARE & SPECIAL LOCKING	0304B
0305A	0305	RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0305A
0306A	0306	SOCIAL WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0306A
0307A	0307	DISTRICT MANAGER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0307A
0308A	0308	SOCIAL WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0308A
0309A	0309	SOCIAL WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0309A
0500A	0002	DIPS CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		CARD READER	0500A
0502A	0502	SOCIAL WORKER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0502A
0503A	0503	ADMINISTRATOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0503A
0505A	0505	RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			0505A
0700A	0700	TENANT LOBBY	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	0700A
E01A	E01A	ELEVATOR CTRL		6' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			E01A
E03A	E03A	ELEVATOR CTRL		4' - 0"	7' - 0"	1 3/4"	DF	HM	PAINT	DHM	HM	PAINT			E03A
S02A	S02	STAIR 2	90 MIN	3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	MM	HM	PAINT		CARD READER	S02A
S03A	S03	STAIR 3	90 MIN	3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	MM	HM	PAINT		CARD READER	S03A
MAIN FLOOR															
1001A	1001	LOBBY	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM		SF	ALUM				
1001B	1001	LOBBY	-	6' - 0"	7' - 0"		DSF	ALUM	ANOD	DSF	ALUM	ANOD			1001A
1001C	1001C	DFA/MAP CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	1001B
1001D	1001	LOBBY		3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HM	HM	PAINT			1001C
1001E	1001	LOBBY		2' - 6"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1001D
1003A	1003	TELECOM		3' - 0"	7' - 0"	1 3/4"	F	HM	STAIN	HM	HM	PAINT			1001E
1003B	1003A	ELECTRICAL		3' - 0"	7' - 0"	1 3/4"	F	HM	STAIN	HM	HM	PAINT			1003A
1004A	1004	MECHANICAL		6' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			1003B
1005A	1005	PUBLIC TOILETS (M)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1004A
1006A	1006	PUBLIC TOILETS (W)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1005A
1007A	1007	CUSTODIAL		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1006A
1009A	1009	SECURITY OFFICE		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1007A
1010A	1010	FLEX STATION		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1009A
1011A	1011	LACTATION		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1010A
1012A	1012	CONFERENCE		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1011A
1013A	1013	BREAKROOM		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1012A
1014A	1014	STAFF TOILETS (M)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1013A
1015A	1015	STAFF TOILETS (W)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1014A
1019A	1019	EXIT CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT		CARD READER	1015A
1100A	1001	LOBBY		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		CARD READER	1019A
1100B	1100	VR CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	1100A
1103A	1103	TRANS. COOR.		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1100B
1105A	1105	COUNSELOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1103A
1106A	1106	COUNSELOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1105A
1107A	1107	SUPPLIES		4' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	DHM	HM	PAINT			1106A
1108A	1108	ADMINISTRATOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1107A
1109A	1109	DISTRICT MGR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1108A
1110A	1110	COUNSELOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1109A
1111A	1111	COUNSELOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1110A
1112A	1100	VR CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			1111A
1112B	1112	MULTIP.		2' - 6"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1112A
1113A	1113	AMBUL. WC		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1112B
1114A	1114	FILES		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1113A
1200A	1200	STRIVE CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1114A
1201A	1201	RESTROOM (M)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1200A
1202A	1202	RESTROOM (W)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1201A
1204A	1204	TABLE STORAGE		5' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			1202A
1205A	1205A	PANTRY		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1204A
1205B	1205	KITCHEN		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		3/4 HEIGHT SS KICK PLATE	1205A
1206A	1206	CONGREGATE ROOM		6' - 0"	7' - 0"		DSF	ALUM	ANOD	DSF	ALUM	ANOD		CARD READER	1205B
1207B	1208	BREAKOUT 1		16' - 0"	8' - 8"	2"	M							MOVEABLE ACOUSTIC WALL SYSTEM	1206A
1208A	1206	CONGREGATE ROOM		18' - 0"	8' - 0"	2"	M							MOVEABLE ACOUSTIC WALL SYSTEM	1207B
															1208A

DOOR AND HARDWARE SCHEDULE

DOOR #	#	NAME	FIRE RATING	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE	COMMENTS	DOOR #
1209A	1209	NURSE		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1209A
1210A	1210	STORAGE		5' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			1210A
1211A	1211	SHARED OFFICE (5)		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1211A
1212A	1212	DIRECTOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1212A
1300B	1300	DFA/MAP CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1300B
1301A	1301	CC CASE WRK		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1301A
1303A	1303	CC CASE WRK		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1303A
1304A	1304	DIRECTOR CERT.		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1304A
1304B	1304	DIRECTOR CERT.		2' - 6"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1304B
1305A	1305	CC SUPER		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1305A
1400A	1400	DFA CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1400A
1400B	1400	DFA CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1400B
1401A	1401	CLAIMS RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1401A
1402A	1402	CLAIMS TELLERS	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			1402A
1403A	1403	ISSUANCE RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1403A
1406A	1406	DIRECTOR SUPPORT		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			1406A
1407A	1407	ISSUANCE SUPER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1407A
1408A	1408	SYSTEMS ANALYSTS (3)	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			1408A
1500A	1020	DFA/MAP LOBBY		6' - 0"	6' - 11"		DSF	ALUM	ANOD	DSF	ALUM	ANOD			1500A
1500B	1020	DFA/MAP LOBBY		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1500B
1500C	1500	DFA CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT		CARD READER	1500C
1502A	1502	ELIG. SUPER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1502A
1504A	1504	DFA FILES		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1504A
1505A	1505	ELIG. SUPER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1505A
1506A	1506	MAP FILES		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	1506A
1507A	1507	ELIG. SUPER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1507A
1508A	1508	EE SUPER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1508A
1510A	1510	EE SUPER		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1510A
1511A	1511	DFA SUPPLIES		3' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			1511A
1511B	1511	DFA SUPPLIES		3' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			1511B
1600A	1020	DFA/MAP LOBBY		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			1600A
1601A	1601A	EE CLERK	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			1601A
1601N	1601N	EE CLERK	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			1601N
1700A		TENANT LOBBY	-	3' - 0"	7' - 0"	1 3/4"	SF	ALUM	ANOD	SF	ALUM	ANOD		CARD READER	1700A
G1A	G1	GENERATOR ENCLOSURE		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT			G1A
S11A	1019	EXIT CORRIDOR	90 MIN	3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	MM	HM	PAINT			S11A
S12A	S12	STAIR 2	90 MIN	3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	MM	HM	PAINT			S12A
S13A	S13	STAIR 3	90 MIN	3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	MM	HM	PAINT			S13A
2ND FLOOR															
2000A	2000B	CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT		CARD READER	2000A
2001A	2001	FAMILY WAITING	-	3' - 0"	7' - 0"	1 3/4"	HG	ALUM	ANOD	SF	ALUM	ANOD			2001A
2001B	2001	FAMILY WAITING		5' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			2001B
2002A	2002	TELE/ELEC		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT			2002A
2003A	2003	MECHANICAL		6' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			2003A
2004A	2004	CUSTODIAL		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2004A
2005B	2005	PUBLIC TOILETS (M)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2005B
2006B	2006	PUBLIC TOILETS (W)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2006B
2007A	2007	FLEX WORKSTATIONS		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2007A
2008A	2008	LACTATION		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2008A
2009A	2009	BREAKROOM		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2009A
2010A	2010	CONFERENCE		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2010A
2010B	2010	CONFERENCE		19' - 0"	8' - 0"	2"	M							MOVEABLE ACOUSTIC WALL SYSTEM	2010B
2011A	2011	STAFF TOILETS (M)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2011A
2012A	2012	STAFF TOILETS (W)		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2012A
2100A	2100	HEAD START CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	HG	ALUM	ANOD	SF	ALUM	ANOD			2100A
2100B	2100	HEAD START CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2100B
2100C	2100	HEAD START CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2100C
2101A	2100	HEAD START CORRIDOR		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2101A
2102A	2102	HEALTH COORDINATOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2102A
2103A	2103	DISABILITY COORDINATOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2103A
2104A	2100	HEAD START CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT		CARD READER	2104A
2106A	2106	UTILITY		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2106A
2107A	2107	RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2107A
2109A	2109	EDUCATION SUPERVISOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2109A
2110A	2110	RECORDS		3' - 0"	7' - 0"	1 3/4"	F	HM	PAINT	HM	HM	PAINT		CARD READER	2110A
2111A	2111	EDUCATION COORDINATOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2111A
2112A	2112	PARENT INVOLVEMENT COORDINATOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2112A
2113A	2113	ADMINISTRATOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2113A
2114A	2114	HEAD START EQUIPMENT STORAGE		5' - 0"	7' - 0"	1 3/4"	DF	WOOD	STAIN	DHM	HM	PAINT			2114A
2115A	2115	HEAD START EQUIPMENT STORAGE		3' - 0"	7' - 0"	1 3/4"	F	WOOD	PAINT	HM	HM	PAINT			2115A
2200A	2000B	CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2200A
2201A	2000C	CORRIDOR 1		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2201A
2201B	2201	WAITING ROOM		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2201B
2202A	2202	INTERVIEW 1		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2202A
2203A	2203	INTERVIEW 2		3' - 0"	7' - 0"	1 3/4"	N	WOOD	STAIN	HM	HM	PAINT			2203A
2205A	2200	INTAKE CORRIDOR	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2205A
2206A	2206	DISTRICT MANAGER	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2206A
2206B	2206	DISTRICT MANAGER		2' - 6"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT			2206B
2209A	2209	RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2209A
2300A	2300	DCFS CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2300A
2300B	2300	DCFS CORRIDOR		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2300B
2302A	2302	RECORDS		3' - 0"	7' - 0"	1 3/4"	F	WOOD	STAIN	HM	HM	PAINT		CARD READER	2302A
2303A	2303	VISITATION ROOM	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2303A
2304A	2304	OFFICE MANAGER	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2304A
2305A	2305	DISTRICT MANAGER PROTECTIVE SERVICES	-	3' - 0"	7' - 0"	1 3/4"	HG	WOOD	STAIN	HMS	HM	PAINT			2305A
2306A	2306	DISTRICT MANAGER FOSTER CARE	-	3' - 0"	7' - 0"



DF — DOUBLE FLUSH

DN — DOUBLE NARROW VISION

DV — DOUBLE VISION

DP — DOUBLE POCKET DOOR

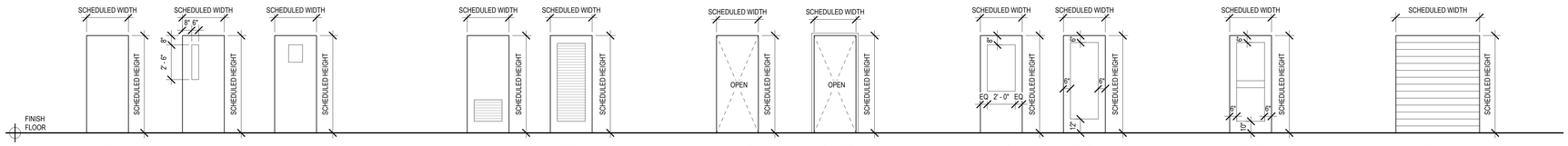
DL — DOUBLE LOUVER

DFL — DOUBLE FULL LOUVER

DHG — DOUBLE HALF GLASS

DFG — DOUBLE FULL GLASS

DSF — DOUBLE STOREFRONT



F — FLUSH DOOR

N — NARROW VISION

V — VISION DOOR

L — LOUVER

FL — FULL LOUVER

UO — UNCASED OPENING

CO — CASED OPENING

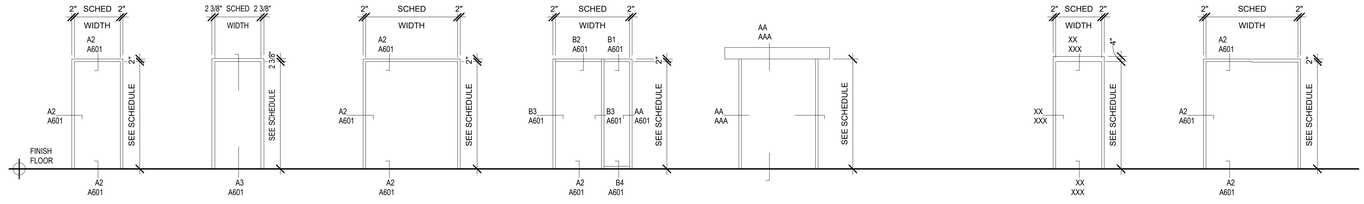
HG — HALF GLASS

FG — FULL GLASS

SF — *PROVIDE IMPACT RESISTANT GLASS AT EXTERIOR DOORS

RU — ROLL UP DOOR

DOOR ELEVATIONS
NOT TO SCALE



HM — HOLLOW METAL FRAME, PAINTED

HMP — POCKET DOORS - HOLLOW METAL FRAME, PAINTED

DHM — DOUBLE DOORS - HOLLOW METAL FRAME, PAINTED

HMS — HOLLOW METAL FRAME W/SIDELIGHT, PAINTED

RUF — ROLL UP DOOR - FRAME

MM — EXTERIOR HOLLOW METAL FRAME, PAINTED

DE — DOUBLE EGRESS - HOLLOW METAL FRAME, PAINTED

DOOR FRAME ELEVATIONS
1/4" = 1'-0"

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

DOOR AND FRAME ELEVATIONS/TYPES

REVISIONS:

No.	Description	Date

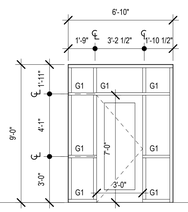
DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

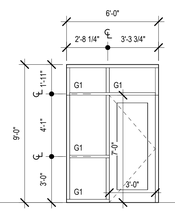
SHEET NUMBER
A602

B: 30% CONSTRUCTION DOCUMENTS

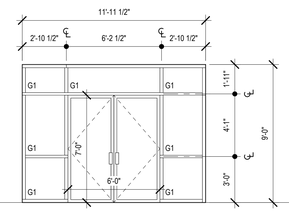
NOT FOR CONSTRUCTION



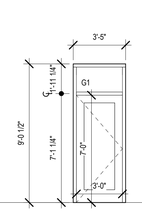
SF12 EXT ALUMINUM ENTRANCE - (SF12)
A610 1/4" = 1'-0"



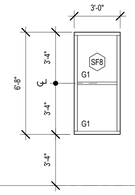
SF11 EXT ALUMINUM ENTRANCE - (SF11)
A610 1/4" = 1'-0"



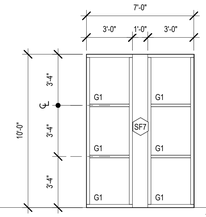
SF10 EXT ALUMINUM ENTRANCE - (SF10)
A610 1/4" = 1'-0"



SF9 EXT ALUMINUM ENTRANCE - (SF9)
A610 1/4" = 1'-0"

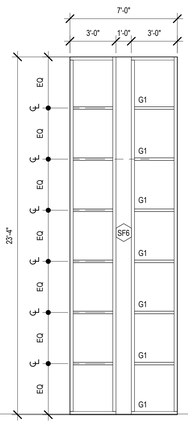


SF8 EXT ALUMINUM STOREFRONT - (SF8)
A610 1/4" = 1'-0"

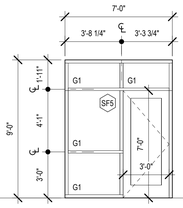


SF7 EXT ALUMINUM STOREFRONT - (SF7)
A610 1/4" = 1'-0"

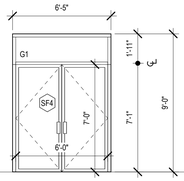
FINISH FLOOR



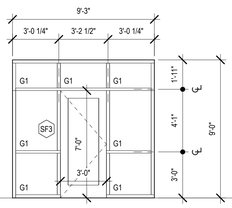
SF6 EXT ALUMINUM STOREFRONT - (SF6)
A610 1/4" = 1'-0"



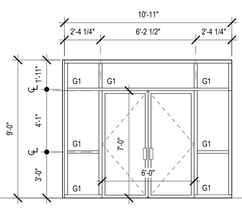
SF5 EXT ALUMINUM ENTRANCE - (SF5)
A610 1/4" = 1'-0"



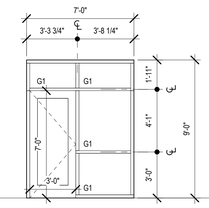
SF4 EXT ALUMINUM ENTRANCE - (SF4)
A610 1/4" = 1'-0"



SF3 EXT ALUMINUM ENTRANCE - (SF3)
A610 1/4" = 1'-0"

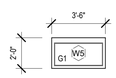


SF2 EXT ALUMINUM ENTRANCE - (SF2)
A610 1/4" = 1'-0"

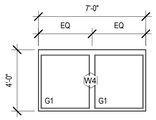


SF1 EXT ALUMINUM ENTRANCE - (SF1)
A610 1/4" = 1'-0"

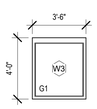
FINISH FLOOR



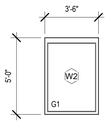
W5 EXT ALUM STOREFRONT - (W5)
A610 1/4" = 1'-0"



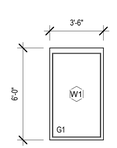
W4 EXT ALUM STOREFRONT - (W4)
A610 1/4" = 1'-0"



W3 EXT ALUM STOREFRONT - (W3)
A610 1/4" = 1'-0"



W2 EXT ALUM STOREFRONT - (W2)
A610 1/4" = 1'-0"



W1 EXT STOREFRONT - (W1)
A610 1/4" = 1'-0"

FINISH FLOOR

GLAZING TYPES LEGEND

- (G1) (G1) EXTERIOR 1-5/16" INSULATED GLASS UNIT, WIND- AND IMPACT-RATED SYSTEM; REFER TO WIND/PRESSURE DESIGN CRITERIA ON STRUCT DWGS AND SPECIFICATIONS
- (G2) (G2) INTERIOR 1/4" CLEAR TEMPERED GLASS (SEE SPECIFICATIONS)
- (G3) (G3) EXTERIOR SPANDREL GLAZING
- (G4) (G4) EXTERIOR PRIVACY GLAZING

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D	90% CDs	
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St. Thomas, US. Virgin Islands 00802

EXTERIOR STOREFRONT ELEVATIONS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

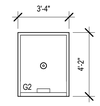
NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A610

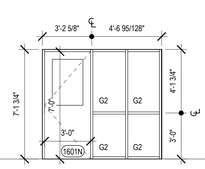
B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

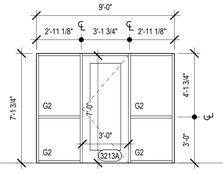
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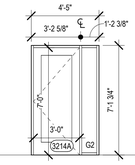
IS15 TRANSACTION WINDOW (IS15)
A611 1/4" = 1'-0"



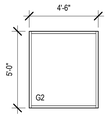
IS14 HM GLAZED ASSEMBLY (IS14)
A611 1/4" = 1'-0"



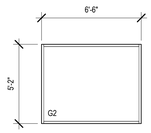
IS13 HM GLAZED ASSEMBLY 3213 (IS13)
A611 1/4" = 1'-0"



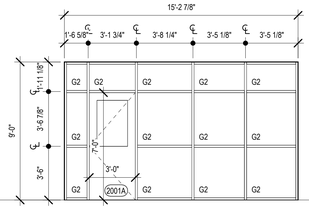
IS12 HM GLAZED ASSEMBLY 3214 (IS12)
A611 1/4" = 1'-0"



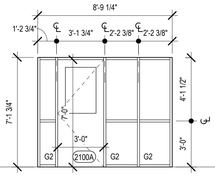
IS11 HM GLAZED ASSEMBLY (IS11)
A611 1/4" = 1'-0"



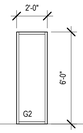
IS10 HM GLAZED ASSEMBLY (IS10)
A611 1/4" = 1'-0"



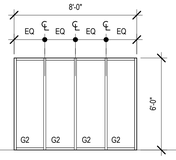
IS9 HM GLAZED ASSEMBLY (IS9)
A611 1/4" = 1'-0"



IS8 HM GLAZED ASSEMBLY 2100 (IS8)
A611 1/4" = 1'-0"

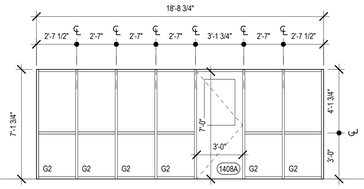


IS7 HM GLAZED ASSEMBLY (IS7)
A611 1/4" = 1'-0"

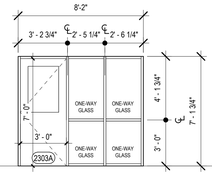


IS6 HM GLAZED ASSEMBLY 1212 (IS6)
A611 1/4" = 1'-0"

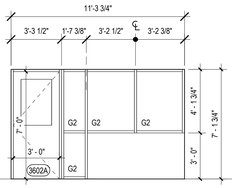
FINISH FLOOR



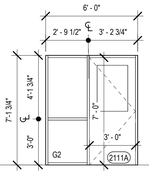
IS5 HM GLAZED ASSEMBLY 1408 (IS5)
A611 1/4" = 1'-0"



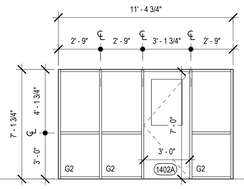
IS4 HM GLAZED ASSEMBLY 2303 (IS4)
A611 1/4" = 1'-0"



IS3 HM GLAZED ASSEMBLY 3602 (IS3)
A611 1/4" = 1'-0"



IS2 HM GLAZED ASSEMBLY (IS2)
A611 1/4" = 1'-0"



IS1 HM GLAZED ASSEMBLY 1402 A (IS1)
A611 1/4" = 1'-0"

FINISH FLOOR

GLAZING TYPES LEGEND

- (G1) (G1) EXTERIOR 1-5/16" INSULATED GLASS UNIT, WIND- AND IMPACT-RATED SYSTEM; REFER TO WIND/PRESSURE DESIGN CRITERIA ON STRUCT DWGS AND SPECIFICATIONS
- (G2) (G2) INTERIOR 1/4" CLEAR TEMPERED GLASS (SEE SPECIFICATIONS)
- (G3) (G3) EXTERIOR SPANDREL GLAZING
- (G4) (G4) EXTERIOR PRIVACY GLAZING

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INTERIOR GLAZED ASSEMBLY ELEVATIONS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

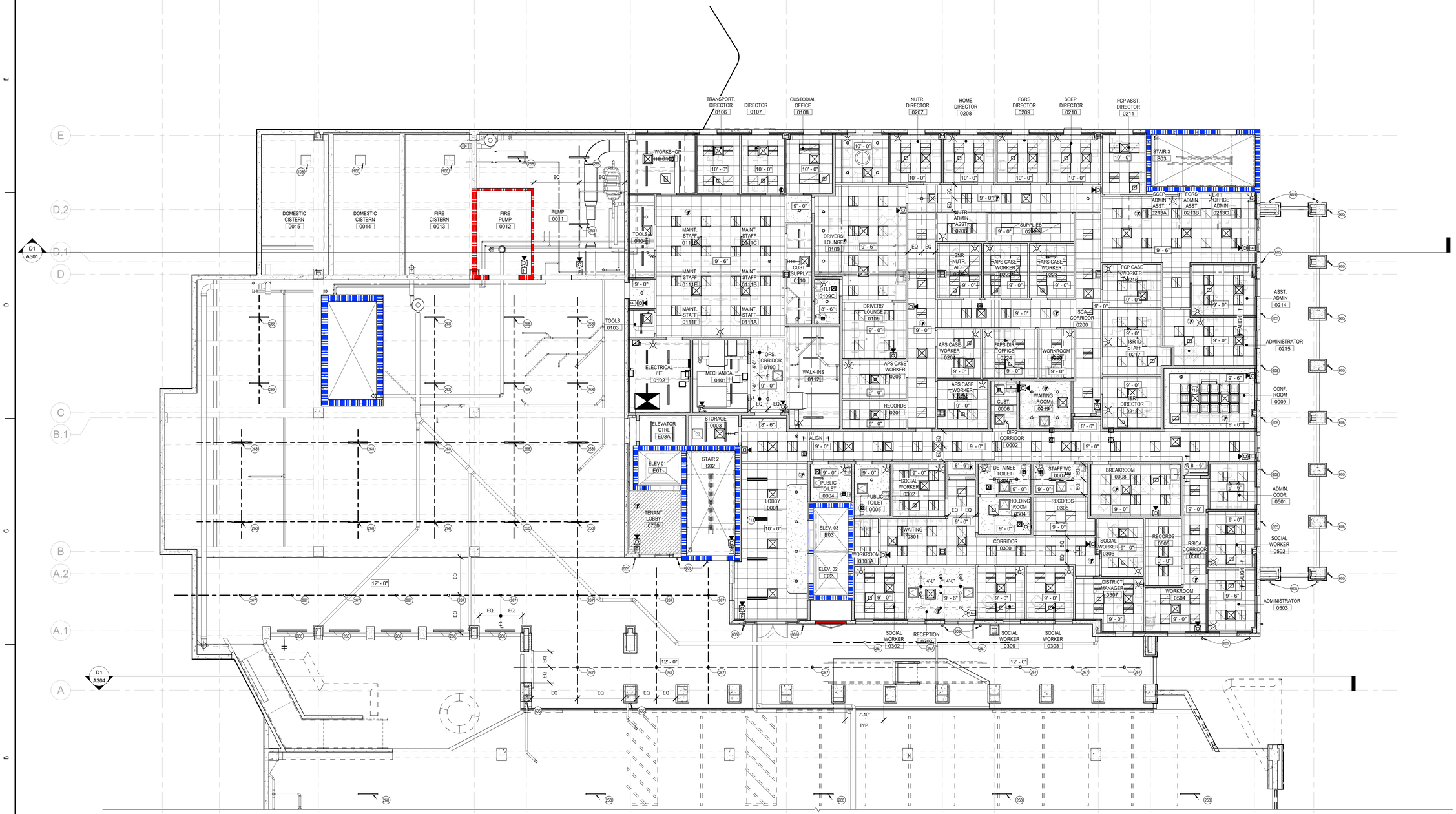
NOVUS JOB NUMBER
470-23-49

CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A611

B: 30% CONSTRUCTION DOCUMENTS

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B1 LOWER FLOOR REFLECTED CEILING PLAN
A701 1/8" = 1'-0"

GENERAL RCP NOTES

1. SEE INTERIOR FINISH SCHEDULE ON A800 SHEETS FOR CEILING PAINT.
2. FINAL LOCATIONS OF ABOVE CEILING ACCESS PANELS IN HARD CEILINGS TO BE COORDINATED WITH ARCHITECT AND OWNER
3. COORDINATE ACCOMMODATIONS FOR SEISMIC HANGERS WITH SPECIFICATIONS.

KEYNOTES - NEW WORK

#	DESCRIPTION
	100 - WALLS AND OPENINGS
108	2'x2' CISTERN ACCESS HATCH AT MAIN FLOOR WITH SEALED METAL COVERS (1 PER CISTERN CHAMBER)
	200 - ROOF & EXTERIOR
266	SPECIALTY LIGHT FIXTURES - EXTERIOR LINEAR FIXTURE
267	SPECIALTY LIGHT FIXTURES - EXTERIOR RECESSED CAN LIGHT
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
	600 - COORDINATION
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED
	700 - RCP
713	LINEAR PLANK ACOUSTIC CEILING
715	DECORATIVE ACOUSTIC CEILING TILES WITHIN 2X2 GRID

CEILING SYMBOL LEGEND

- 2' x 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- METAL PANEL CEILING SYSTEM
- METAL PANEL CEILING SYSTEM
- EXTERIOR SOFFIT DAEFS
- EXTERIOR METAL PANEL CEILING SYSTEM
- PENDANT LIGHT FIXTURE - SEE ELECTRICAL
- DECORATIVE ACOUSTIC CEILING TILE
- EXTERIOR CEILING MOUNTED SPECIALTY LIGHT FIXTURE
- RETURN LINEAR GRILLE, - SEE MECHANICAL
- 10'-0" CEILING HEIGHT 10'-0" UNLESS OTHERWISE NOTED
- SUPPLY LINEAR GRILLE - SEE MECHANICAL
- EXHAUST GRILLE - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- SUPPLY GRILLE - SEE MECHANICAL
- ACCESS DOOR 1'-8" X 1'-8" - SEE SPECS.
- SMOKE DETECTOR HARDWIRED INTO PANEL BOX W/ BATTERY BACKUP
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- EXTERIOR WALL MOUNTED SCONCE FIXTURE - SEE ELECTRICAL
- 2x2 DIRECT/ INDIRECT LAY-IN FIXTURE - SEE ELECTRICAL
- 1X1 SURFACE MOUNTED FIXTURE - SEE ELECTRICAL
- WALL MOUNTED FIXTURE - SEE ELECTRICAL
- 4'X48" CEILING PENDANT FIXTURE - SEE ELECTRICAL
- EXTERIOR CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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LOWER FLOOR REFLECTED CEILING PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
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CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A701

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B1 MAIN FLOOR REFLECTED CEILING PLAN

A711 1/8" = 1'-0"

GENERAL RCP NOTES

1. SEE INTERIOR FINISH SCHEDULE ON A800 SHEETS FOR CEILING PAINT.
2. FINAL LOCATIONS OF ABOVE CEILING ACCESS PANELS IN HARD CEILINGS TO BE COORDINATED WITH ARCHITECT AND OWNER
3. COORDINATE ACCOMMODATIONS FOR SEISMIC HANGERS WITH SPECIFICATIONS.

KEYNOTES - NEW WORK

#	DESCRIPTION
200 - ROOF & EXTERIOR	
264	SPECIALTY LIGHT FIXTURES AS SCHEDULED
600 - COORDINATION	
605	SPECIALTY LIGHT FIXTURES - EXTERIOR WALL SCONCE AS SCHEDULED
700 - RCP	
702	SPECIALTY LIGHT FIXTURES
706	CEILING PLENUM ACCESS DOOR, SEE SPECS (FINAL LOCATION TO BE COORD W OWNER)
713	LINEAR PLANK ACOUSTIC CEILING
715	DECORATIVE ACOUSTIC CEILING TILES WITHIN 2X2 GRID

CEILING SYMBOL LEGEND

- 2' x 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- METAL PANEL CEILING SYSTEM
- METAL PANEL CEILING SYSTEM
- EXTERIOR SOFFIT DAEFS
- EXTERIOR METAL PANEL CEILING SYSTEM
- PENDANT LIGHT FIXTURE - SEE ELECTRICAL
- DECORATIVE ACOUSTIC CEILING TILE
- EXTERIOR CEILING MOUNTED SPECIALTY LIGHT FIXTURE
- RETURN LINEAR GRILLE, - SEE MECHANICAL
- 10'-0" CEILING HEIGHT 10'-0" UNLESS OTHERWISE NOTED
- SUPPLY LINEAR GRILLE - SEE MECHANICAL
- EXHAUST GRILLE - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- SUPPLY GRILLE - SEE MECHANICAL
- ACCESS DOOR 1'-8" X 1'-8" - SEE SPECS.
- SMOKE DETECTOR HARDWIRED INTO PANEL BOX W/ BATTERY BACKUP
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- EXTERIOR WALL MOUNTED SCONCE FIXTURE - SEE ELECTRICAL
- 2x2 DIRECT/ INDIRECT LAY-IN FIXTURE - SEE ELECTRICAL
- 1X1 SURFACE MOUNTED FIXTURE - SEE ELECTRICAL
- WALL MOUNTED FIXTURE - SEE ELECTRICAL
- 4"X48" CEILING PENDANT FIXTURE - SEE ELECTRICAL
- EXTERIOR CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY U.S. VIRGIN ISLANDS

GOVERNMENT OF THE U.S. VIRGIN ISLANDS DEPARTMENT OF HUMAN SERVICES

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SUBMISSIONS:

Ref	Description	Date
A	Programming	10/15/2025
B	30% CDs	04/06/2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

MAIN FLOOR REFLECTED CEILING PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER 470-23-49
CDR TASK ORDER NUMBER 010-9-101918

SHEET NUMBER A711

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B1 2ND FLOOR REFLECTED CEILING PLAN

A721 1/8" = 1'-0"

GENERAL RCP NOTES

1. SEE INTERIOR FINISH SCHEDULE ON A800 SHEETS FOR CEILING PAINT.
2. FINAL LOCATIONS OF ABOVE CEILING ACCESS PANELS IN HARD CEILINGS TO BE COORDINATED WITH ARCHITECT AND OWNER
3. COORDINATE ACCOMMODATIONS FOR SEISMIC HANGERS WITH SPECIFICATIONS.

KEYNOTES - NEW WORK

#	DESCRIPTION
700 - RCP	
702	SPECIALTY LIGHT FIXTURES
706	CEILING PLENUM ACCESS DOOR, SEE SPECS (FINAL LOCATION TO BE COORD W OWNER)
713	LINEAR PLANK ACOUSTIC CEILING
715	DECORATIVE ACOUSTIC CEILING TILES WITHIN 2X2 GRID
716	EXTERIOR SOFFIT - REFER TO RCPS FOR MATERIAL AND FINISH

CEILING SYMBOL LEGEND

- 2' x 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- METAL PANEL CEILING SYSTEM
- METAL PANEL CEILING SYSTEM
- EXTERIOR SOFFIT DAEFS
- EXTERIOR METAL PANEL CEILING SYSTEM
- PENDANT LIGHT FIXTURE - SEE ELECTRICAL
- DECORATIVE ACOUSTIC CEILING TILE
- EXTERIOR CEILING MOUNTED SPECIALTY LIGHT FIXTURE
- RETURN LINEAR GRILLE, - SEE MECHANICAL
- 10'-0" CEILING HEIGHT 10'-0" UNLESS OTHERWISE NOTED
- SUPPLY LINEAR GRILLE - SEE MECHANICAL
- EXHAUST GRILLE - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- SUPPLY GRILLE - SEE MECHANICAL
- ACCESS DOOR 1'-8" X 1'-8" - SEE SPECS.
- SMOKE DETECTOR HARDWIRED INTO PANEL BOX W/ BATTERY BACKUP
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- EXTERIOR WALL MOUNTED SCONCE FIXTURE - SEE ELECTRICAL
- 2x2 DIRECT/ INDIRECT LAY-IN FIXTURE - SEE ELECTRICAL
- 1X1 SURFACE MOUNTED FIXTURE - SEE ELECTRICAL
- WALL MOUNTED FIXTURE - SEE ELECTRICAL
- 4'X48" CEILING PENDANT FIXTURE - SEE ELECTRICAL
- EXTERIOR CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

NORTH

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KNUD HANSEN BLDG & EQUIP
1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

2ND FLOOR REFLECTED CEILING PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A721

B: 30% CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION



B1 3RD FLOOR REFLECTED CEILING PLAN

A731 1/8" = 1'-0"

GENERAL RCP NOTES

1. SEE INTERIOR FINISH SCHEDULE ON A800 SHEETS FOR CEILING PAINT.
2. FINAL LOCATIONS OF ABOVE CEILING ACCESS PANELS IN HARD CEILINGS TO BE COORDINATED WITH ARCHITECT AND OWNER
3. COORDINATE ACCOMMODATIONS FOR SEISMIC HANGERS WITH SPECIFICATIONS.

KEYNOTES - NEW WORK

#	DESCRIPTION
400 - FFE	
407	STEEL ROOF ACCESS LADDER
600 - COORDINATION	
610	MECHANICAL DUCTS IN SHAFT, SEE MECHANICAL DRAWINGS
700 - RCP	
702	SPECIALTY LIGHT FIXTURES
706	CEILING PLENUM ACCESS DOOR, SEE SPECS (FINAL LOCATION TO BE COORD W OWNER)
713	LINEAR PLANK ACOUSTIC CEILING
714	SUSPENDED ACOUSTIC CEILING BAFFLES
715	DECORATIVE ACOUSTIC CEILING TILES WITHIN 2X2 GRID

CEILING SYMBOL LEGEND

- 2' x 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- METAL PANEL CEILING SYSTEM
- METAL PANEL CEILING SYSTEM
- EXTERIOR SOFFIT DAEFS
- EXTERIOR METAL PANEL CEILING SYSTEM
- PENDANT LIGHT FIXTURE - SEE ELECTRICAL
- DECORATIVE ACOUSTIC CEILING TILE
- EXTERIOR CEILING MOUNTED SPECIALTY LIGHT FIXTURE
- RETURN LINEAR GRILLE, - SEE MECHANICAL
- 10'-0" CEILING HEIGHT 10'-0" UNLESS OTHERWISE NOTED
- SUPPLY LINEAR GRILLE - SEE MECHANICAL
- EXHAUST GRILLE - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- SUPPLY GRILLE - SEE MECHANICAL
- ACCESS DOOR 1'-8" X 1'-8" - SEE SPECS.
- SMOKE DETECTOR HARDWIRED INTO PANEL BOX W/ BATTERY BACKUP
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- EXTERIOR WALL MOUNTED SCONCE FIXTURE - SEE ELECTRICAL
- 2x2 DIRECT/ INDIRECT LAY-IN FIXTURE - SEE ELECTRICAL
- 1X1 SURFACE MOUNTED FIXTURE - SEE ELECTRICAL
- WALL MOUNTED FIXTURE - SEE ELECTRICAL
- 4'X48' CEILING PENDANT FIXTURE - SEE ELECTRICAL
- EXTERIOR CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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3RD FLOOR REFLECTED CEILING PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

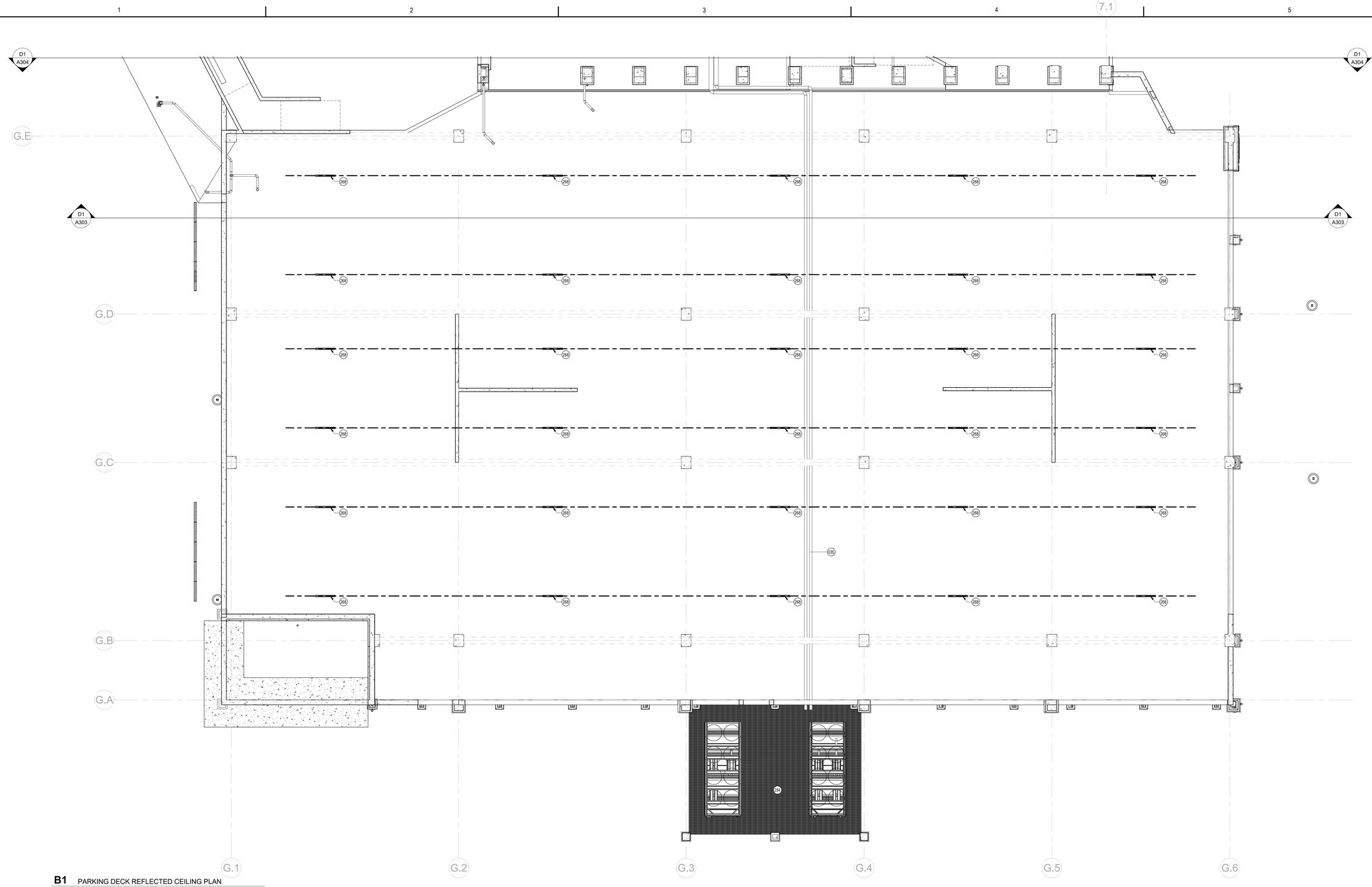
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SHEET NUMBER
A731

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B1 PARKING DECK REFLECTED CEILING PLAN
A741 1/8" = 1'-0"

GENERAL RCP NOTES

1. SEE INTERIOR FINISH SCHEDULE ON A800 SHEETS FOR CEILING PAINT.
2. FINAL LOCATIONS OF ABOVE CEILING ACCESS PANELS IN HARD CEILINGS TO BE COORDINATED WITH ARCHITECT AND OWNER
3. COORDINATE ACCOMMODATIONS FOR SEISMIC HANGERS WITH SPECIFICATIONS.

KEYNOTES - NEW WORK

#	DESCRIPTION
000 - SITE	
035	CHILLER PIPING - SEE MEP
200 - ROOF & EXTERIOR	
268	EXTERIOR SURFACE MOUNTED LIGHT FIXTURE - PARKING DECK AND BOH AREAS AS SCHEDULED
284	GALVANIZED STEEL OPEN GRATE CAP OVER CHILLER ENCLOSURE

CEILING SYMBOL LEGEND

- 2' x 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- METAL PANEL CEILING SYSTEM
- METAL PANEL CEILING SYSTEM
- EXTERIOR SOFFIT DAEFS
- EXTERIOR METAL PANEL CEILING SYSTEM
- PENDANT LIGHT FIXTURE - SEE ELECTRICAL
- DECORATIVE ACOUSTIC CEILING TILE
- EXTERIOR CEILING MOUNTED SPECIALTY LIGHT FIXTURE
- RETURN LINEAR GRILLE, - SEE MECHANICAL
- 10'-0" CEILING HEIGHT 10'-0" UNLESS OTHERWISE NOTED
- SUPPLY LINEAR GRILLE - SEE MECHANICAL
- EXHAUST GRILLE - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- SUPPLY GRILLE - SEE MECHANICAL
- ACCESS DOOR 1'-8" X 1'-8" - SEE SPECS.
- SMOKE DETECTOR HARDWIRED INTO PANEL BOX W/ BATTERY BACKUP
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- EXTERIOR WALL MOUNTED SCONCE FIXTURE - SEE ELECTRICAL
- 2x2 DIRECT/ INDIRECT LAY-IN FIXTURE - SEE ELECTRICAL
- 1X1 SURFACE MOUNTED FIXTURE - SEE ELECTRICAL
- WALL MOUNTED FIXTURE - SEE ELECTRICAL
- 4'X48" CEILING PENDANT FIXTURE - SEE ELECTRICAL
- EXTERIOR CEILING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

GENERAL LEGEND

REFER TO SHEET G001 AND G002 FOR DRAWING INDEX, KEYNOTES, AND GENERAL LEGEND SYMBOLS SUCH AS VIEW TAGS, WINDOW TAGS, DOOR TAGS, ROOM TAGS, WALL TAGS, AND PATTERNS.

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

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1303 Hospital Ground
St. Thomas, US. Virgin Islands 00802

PARKING DECK REFLECTED CEILING PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

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470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A741

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B1 LOWER FLOOR FINISH PLAN
A801 1/8" = 1'-0"

GENERAL FINISH NOTES

1. ALL PAINT COLOR AND VARNISH STAINS, FINISHES TO BE SELECTED BY ARCHITECT.
2. CONTRACTOR VERIFY ALL EXISTING PAINT FINISHES. THIS IS A HISTORIC BUILDING W/ MULTIPLE EXISTING PAINT FINISHES.
3. ALL EXISTING LIME WASH PAINT FINISHES MUST BE HAND SCRAPPED, NO SANDBLASTING PERMITTED ON THESE TYPES OF EXISTING SURFACES.
4. SURFACES W/ MULTIPLE & HYBRID PAINT FINISHES, CONTRACTOR SHOULD CONTACT ARCHITECT TO DETERMINE FINAL PAINT FINISH TO BE APPLIED.
5. ALL DEMOLITION WORK THAT CAUSES EXISTING PAINT FINISHES AND/OR PLASTER FINISHES TO BE REMOVED FROM SURFACES SHOULD BE REPAIRED ND REPLACED W/ THE SAME MATERIAL FINISH. ANY QUESTIONS ON WHAT MATERIAL TO REUSE, CONTRACTOR MUST CONTACT ARCHITECT PRIOR TO SELECTION OF MATERIAL AND PERFORMANCE OF REPAIR WORK.
6. ALL MORTAR MIXES MUST MEET CONSTRUCTION DOCUMENT SPECIFICATIONS AND MANUFACTURER'S SPECIFICATIONS.

FINISH SELECTIONS - INTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
800 - FINISHES				
ACT-1	ACOUSTICAL CEILING TILE	USG; RADAR CLIMAPLUS #2410; COLOR: WHITE		GRID: USG; DOWN DX.DXL; FLAT WHITE #50
AP-1	ACOUSTICAL PANEL	SOELBERG; SLATZ WALL PANELS, COLOR TBD	RUN VERTICAL	PANEL SIZES: 47.5" x 96"
C-1	UNFINISHED CONCRETE			
CG-1	CORNER GUARD 90 DEGREE	ACROVYN; SM-20N; COLOR: TBD		4' HIGH
CPT-1	CARPET TILES	INTERFACE; STYLE: TBD	ASHLAR INSTALLATION	
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT, TERRAIN II; COLOR: TBD	ASHLAR	
LVT-2	LUXURY VINYL TILE	MANNINGTON; COLOR: TBD		
P-1	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		GENERAL WALL PAINT
P-2	PAINT	SHERWIN WILLIAMS; TBD		HM DOORS AND FRAMES - SEMI GLOSS
P-4	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		ACCENT WALL PAINT
P-5	PAINT	SHERWIN WILLIAMS, SW 7007 CEILING BRIGHT WHITE		CEILING PAINT
PL-1	PLASTIC LAMINATE	WILSONART		
SC-1	STAINED CONCRETE			
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG, EXCELONG, 12" X 12"		
SS-1	SOLID SURFACE, CORIAN	CORIAN; COLOR: TBD		COUNTERS AND WINDOW SILLS
T-1	PORCELAIN TILE 12x24	DALTILE; VIRTUO; COMPOSER VR11; 12"x24"		TOILET ROOM FLOORS AND WALLS
T-2	QUARRY TILE	DALTILE QUARRY TILE; COLOR: ARID FLASH; SIZE: 6"x6"		KITCHEN AND PANTRY TILE
TB-1	TILE BASE	DALTILE; 6" H BASE		
TB-2	TILE BASE	DALTILE; QUARRY TILE BASE; COLOR: ARID FLASH, 5 x 6" ROUND TOP COVE BASE		
TCF	TEXTILE COMPOSITION TILE	J&J FLOORING, KINETEX	ASHLAR	
WB-1	WALL BASE	TARKETT; JOHNSONITE; 4" HIGH MILLWORK BASE; COLOR: TBD		
WF-1	WALKOFF CARPET TILE	J+J FLOORING, STYLE: INCOGNITO; COLOR: TBD; SIZE: 24"x24"	QUARTER-TURN INSTALLATION	

FINISH SYMBOL LEGEND

GENERAL
- NOT IN SCOPE OF WORK (UNLESS NOTED OTHERWISE)
- WEST WALL FINISH
- NORTH WALL FINISH
- FLOOR FINISH
- EAST WALL FINISH
- WALL BASE FINISH
- SOUTH WALL FINISH

WALLS
- X — ACCENT FINISH

ACOUSTIC WALL PANEL TYPES
- (ASL-1) ACOUSTIC SURFACE LINER PANEL (SEE SPECS.)
- (PAT-1) PREFABRICATED ACOUSTICAL TREATMENT, (SEE SPECS.)

FLOORING
- PORCELAIN TILE T
- CARPET CPT
- TEXTILE COMPOSITION TILE TCF
- LUXURY VINYL TILE LVT
- SEALED CONCRETE SC
- STATIC DISSIPATIVE TILE SDT

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

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St. Thomas, US. Virgin Islands 00802

LOWER FLOOR FINISH PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A801

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Congrate Room and Breakout:
•LVT
•Entry Walk-off Mat
•Paint
•Rubber Base
•Solid surface counter tops and back splash
•High Pressure Laminate cabinets
•Ceiling clouds or Baffles (optional)

Kitchen and Pantry:
•Porcelain Floor Tiles
•Backsplash
•Paint
•Tile Base
•Solid Surface Countertop
•High Pressure Laminate Cabinets

Lactation and Breakroom:
•LVT
•Paint
•Rubber Base
•Solid surface counter top and back splash
•High Pressure Laminate cabinets

Conference Room:
•Carpet
•Paint
•Rubber Base
•Acoustic Panels (optional)
•Specialty lighting (optional)
•Decorative Ceiling (optional)

Security Office and Flex Station:
•LVT
•Paint
•Rubber Base
•Solid surface counter top and back splash
•High Pressure Laminate cabinets

Supplies:
•TCF
•Paint
•Rubber Base
•High Pressure Laminate counter top
•High Pressure Laminate cabinets

All Storage Areas:
•Stained Concrete
•Paint
•Rubber Base

All Restrooms
•Porcelain Floor Tiles
•Wall Tiles at wet walls
•Paint
•Tile Base

Claims/Issua. Lobby:
•TCF
•Paint
•Rubber Base
•High Pressure Laminate counter top

Shared Workroom and Open Offices
•TCF
•Paint
•Rubber Base
•High Pressure Laminate counter top
•High Pressure Laminate cabinets

Shared Lobby
•LVT
•Entry Walk-off Mat
•Acoustic/decorative wall panels
•Paint
•Rubber Base
•Specialty Lighting (optional)
•Decorative Ceiling (optional)

Voc. Rehab Open Areas:
•LVT
•Entry Walk-off Mat
•Paint
•Rubber Base
•High Pressure Laminate counter top and cabinets

Waiting Area:
•LVT
•Entry Walk-off Mat
•Paint
•Rubber Base
•Specialty Lighting (optional)
•Decorative Ceiling (optional)

Lobby
•LVT
•Entry Walk-off Mat
•Acoustic/decorative wall panels
•Paint
•Rubber Base
•Decorative Ceiling (optional)

Reception Area:
•Carpet
•Paint
•Rubber Base
•Solid Surface desk top finish
•High Pressure Laminate cabinets and vertical surfaces
•Acoustic or decorative panels (optional)
•Specialty lighting (optional)
•Decorative Ceiling (optional)

MAP Offices and Office Corridors:
•Carpet
•Entry Walk-off Mat
•Paint
•Rubber Base
•High Pressure Laminate counter top and cabinets

B1 MAIN FLOOR FINISH PLAN
A811 1/8" = 1'-0"

GENERAL FINISH NOTES

1. ALL PAINT COLOR AND VARNISH STAINS, FINISHES TO BE SELECTED BY ARCHITECT.
2. CONTRACTOR VERIFY ALL EXISTING PAINT FINISHES. THIS IS A HISTORIC BUILDING W/ MULTIPLE EXISTING PAINT FINISHES.
3. ALL EXISTING LIME WASH PAINT FINISHES MUST BE HAND SCRAPPED, NO SANDBLASTING PERMITTED ON THESE TYPES OF EXISTING SURFACES.
4. SURFACES W/ MULTIPLE & HYBRID PAINT FINISHES, CONTRACTOR SHOULD CONTACT ARCHITECT TO DETERMINE FINAL PAINT FINISH TO BE APPLIED.
5. ALL DEMOLITION WORK THAT CAUSES EXISTING PAINT FINISHES AND/OR PLASTER FINISHES TO BE REMOVED FROM SURFACES SHOULD BE REPAIRED NO REPLACED W/ THE SAME MATERIAL FINISH. ANY QUESTIONS ON WHAT MATERIAL TO REUSE, CONTRACTOR MUST CONTACT ARCHITECT PRIOR TO SELECTION OF MATERIAL AND PERFORMANCE OF REPAIR WORK.
6. ALL MORTAR MIXES MUST MEET CONSTRUCTION DOCUMENT SPECIFICATIONS AND MANUFACTURER'S SPECIFICATIONS.

FINISH SELECTIONS - INTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
800 - FINISHES				
ACT-1	ACOUSTICAL CEILING TILE	USG: RADAR CLIMAPLUS #2410; COLOR: WHITE		GRID: USG; DOWN DX.DXL; FLAT WHITE #50
AP-1	ACOUSTICAL PANEL	SOELBERG; SLATZ WALL PANELS, COLOR TBD	RUN VERTICAL	PANEL SIZES: 47.5" x 96"
C-1	UNFINISHED CONCRETE			
CG-1	CORNER GUARD 90 DEGREE	ACROVYN; SM-20N; COLOR: TBD		4' HIGH
CPT-1	CARPET TILES	INTERFACE; STYLE: TBD	ASHLAR INSTALLATION	
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT, TERRAIN II; COLOR: TBD	ASHLAR	
LVT-2	LUXURY VINYL TILE	MANNINGTON; COLOR: TBD		
P-1	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		GENERAL WALL PAINT
P-2	PAINT	SHERWIN WILLIAMS; TBD		HM DOORS AND FRAMES - SEMI GLOSS
P-4	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		ACCENT WALL PAINT
P-5	PAINT	SHERWIN WILLIAMS, SW 7007 CEILING BRIGHT WHITE		CEILING PAINT
PL-1	PLASTIC LAMINATE	WILSONART		
SC-1	STAINED CONCRETE			
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG, EXCELONG, 12" X 12"		
SS-1	SOLID SURFACE, CORIAN	CORIAN; COLOR: TBD		COUNTERS AND WINDOW SILLS
T-1	PORCELAIN TILE 12x24	DALTILE; VIRTUO; COMPOSER VR11; 12"x24"		TOILET ROOM FLOORS AND WALLS
T-2	QUARRY TILE	DALTILE QUARRY TILE; COLOR: ARID FLASH; SIZE: 6"x6"		KITCHEN AND PANTRY TILE
TB-1	TILE BASE	DALTILE; 6" H BASE		
TB-2	TILE BASE	DALTILE; QUARRY TILE BASE; COLOR: ARID FLASH, 5 x 6" ROUND TOP COVE BASE		
TCF	TEXTILE COMPOSITION TILE	J&J FLOORING, KINETEX	ASHLAR	
WB-1	WALL BASE	TARKETT; JOHNSONITE; 4" HIGH MILLWORK BASE; COLOR: TBD		
WF-1	WALKOFF CARPET TILE	J+J FLOORING; STYLE: INCOGNITO; COLOR: TBD; SIZE: 24"x24"	QUARTER-TURN INSTALLATION	

FINISH SYMBOL LEGEND

GENERAL
- NOT IN SCOPE OF WORK (UNLESS NOTED OTHERWISE)
- WEST WALL FINISH
- NORTH WALL FINISH
- FLOOR FINISH
- EAST WALL FINISH
- WALL BASE FINISH
- SOUTH WALL FINISH

WALLS
- ACCENT FINISH

ACOUSTIC WALL PANEL TYPES
- (ASL-1) ACOUSTIC SURFACE LINER PANEL (SEE SPECS.)
- (PAT-1) PREFABRICATED ACOUSTICAL TREATMENT, (SEE SPECS.)

FLOORING
- PORCELAIN TILE T
- CARPET CPT
- TEXTILE COMPOSITION TILE TCF
- LUXURY VINYL TILE LVT
- SEALED CONCRETE SC
- STATIC DISSIPATIVE TILE SDT

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

NORTH

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MAIN FLOOR FINISH PLAN

REVISIONS:

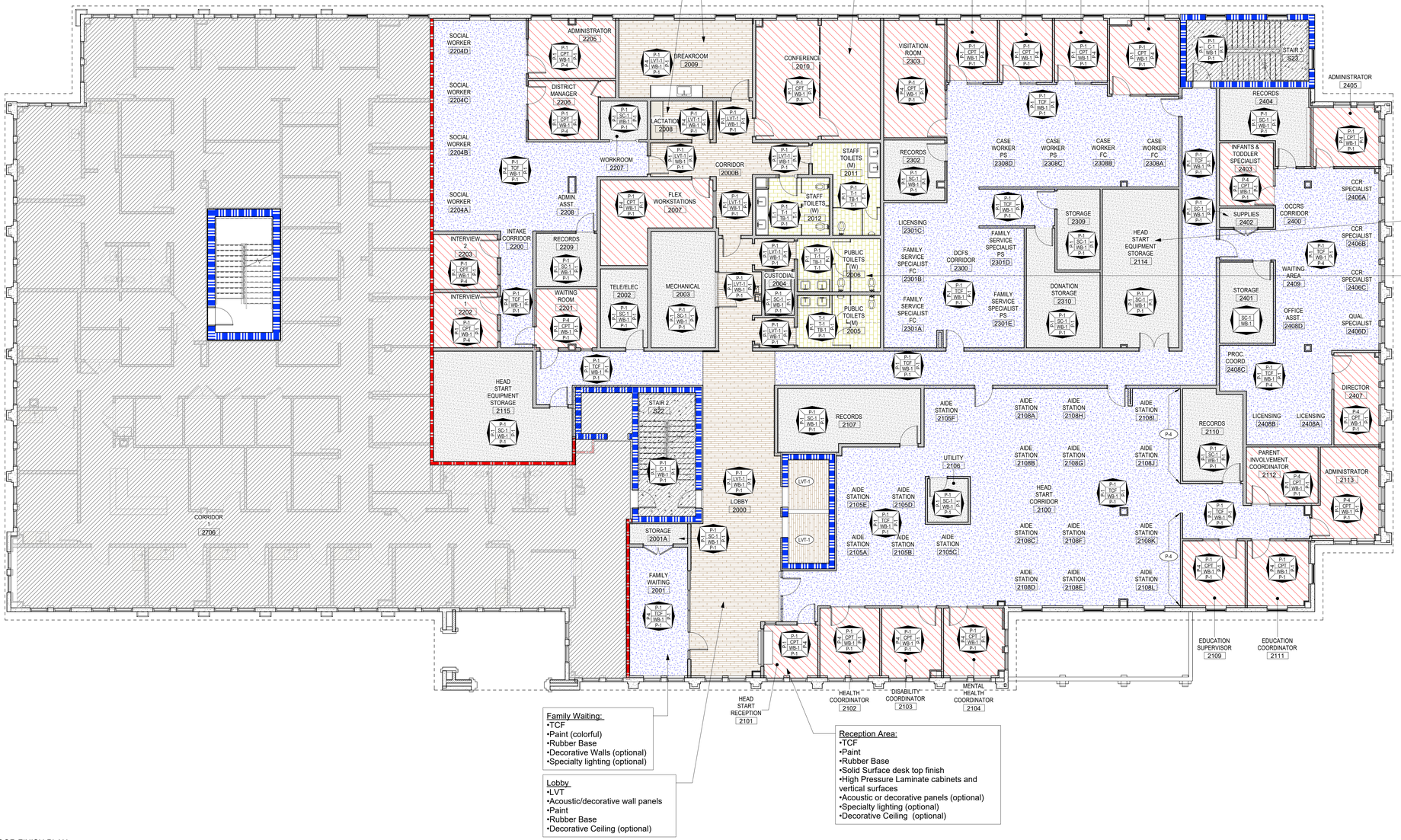
No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026
NOVUS JOB NUMBER: 470-23-49
CDR TASK ORDER NUMBER: 010-9-101918

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B1 2ND FLOOR FINISH PLAN

A821 1/8" = 1'-0"

GENERAL FINISH NOTES

1. ALL PAINT COLOR AND VARNISH STAINS, FINISHES TO BE SELECTED BY ARCHITECT.
2. CONTRACTOR VERIFY ALL EXISTING PAINT FINISHES. THIS IS A HISTORIC BUILDING W/ MULTIPLE EXISTING PAINT FINISHES.
3. ALL EXISTING LIME WASH PAINT FINISHES MUST BE HAND SCRAPPED, NO SANDBLASTING PERMITTED ON THESE TYPES OF EXISTING SURFACES.
4. SURFACES W/ MULTIPLE & HYBRID PAINT FINISHES, CONTRACTOR SHOULD CONTACT ARCHITECT TO DETERMINE FINAL PAINT FINISH TO BE APPLIED.
5. ALL DEMOLITION WORK THAT CAUSES EXISTING PAINT FINISHES AND/OR PLASTER FINISHES TO BE REMOVED FROM SURFACES SHOULD BE REPAIRED NO REPLACED W/ THE SAME MATERIAL FINISH. ANY QUESTIONS ON WHAT MATERIAL TO REUSE, CONTRACTOR MUST CONTACT ARCHITECT PRIOR TO SELECTION OF MATERIAL AND PERFORMANCE OF REPAIR WORK.
6. ALL MORTAR MIXES MUST MEET CONSTRUCTION DOCUMENT SPECIFICATIONS AND MANUFACTURER'S SPECIFICATIONS.

FINISH SELECTIONS - INTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
800 - FINISHES				
ACT-1	ACOUSTICAL CEILING TILE	USG: RADAR CLIMAPLUS #2410; COLOR: WHITE		GRID: USG; DOWN DX DXL; FLAT WHITE #50
AP-1	ACOUSTICAL PANEL	SOELBERG: SLATZ WALL PANELS, COLOR TBD	RUN VERTICAL	PANEL SIZES: 47.5" x 96"
C-1	UNFINISHED CONCRETE			
CG-1	CORNER GUARD 90 DEGREE	ACROVYN; SM-20N; COLOR: TBD		4' HIGH
CPT-1	CARPET TILES	INTERFACE; STYLE: TBD	ASHLAR INSTALLATION	
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT, TERRAIN II; COLOR: TBD	ASHLAR	
LVT-2	LUXURY VINYL TILE	MANNINGTON; COLOR: TBD		
P-1	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		GENERAL WALL PAINT
P-2	PAINT	SHERWIN WILLIAMS; TBD		HM DOORS AND FRAMES - SEMI GLOSS
P-4	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		ACCENT WALL PAINT
P-5	PAINT	SHERWIN WILLIAMS, SW 7007 CEILING BRIGHT WHITE		CEILING PAINT
PL-1	PLASTIC LAMINATE	WILSONART		
SC-1	STAINED CONCRETE			
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG, EXCELONG, 12" X 12"		
SS-1	SOLID SURFACE, CORIAN	CORIAN, COLOR: TBD		COUNTERS AND WINDOW SILLS
T-1	PORCELAIN TILE 12x24	DALTILE; VIRTUO; COMPOSER VR11; 12"x24"		TOILET ROOM FLOORS AND WALLS
T-2	QUARRY TILE	DALTILE QUARRY TILE; COLOR: ARID FLASH; SIZE: 6"x6"		KITCHEN AND PANTRY TILE
TB-1	TILE BASE	DALTILE; 6" H BASE		
TB-2	TILE BASE	DALTILE; QUARRY TILE BASE; COLOR: ARID FLASH, 5 x 6" ROUND TOP COVE BASE		
TCF	TEXTILE COMPOSITION TILE	J&J FLOORING, KINETEX	ASHLAR	
WB-1	WALL BASE	TARKETT; JOHNSONITE; 4" HIGH MILLWORK BASE; COLOR: TBD		
WF-1	WALKOFF CARPET TILE	J+J FLOORING; STYLE: INCOGNITO; COLOR: TBD; SIZE: 24"x24"	QUARTER-TURN INSTALLATION	

FINISH SYMBOL LEGEND

GENERAL

NOT IN SCOPE OF WORK (UNLESS NOTED OTHERWISE)

P-1 CPT-1 WB-1 P-1

WEST WALL FINISH
NORTH WALL FINISH
FLOOR FINISH
EAST WALL FINISH
WALL BASE FINISH
SOUTH WALL FINISH

WALLS

X ACCENT FINISH

ACOUSTIC WALL PANEL TYPES

(ASL-1) ACOUSTIC SURFACE LINER PANEL, (SEE SPECS.)

(PAT-1) PREFABRICATED ACOUSTICAL TREATMENT, (SEE SPECS.)

FLOORING

PORCELAIN TILE T
CARPET CPT
TEXTILE COMPOSITION TILE TCF
LUXURY VINYL TILE LVT
SEALED CONCRETE SC
STATIC DISSIPATIVE TILE SDT

WALL LEGEND

NON-RATED SMOKE PARTITION
1 HOUR FIRE BARRIER
1 HOUR SMOKE BARRIER
2 HOUR FIRE BARRIER
2 HOUR SMOKE BARRIER

*SEE G201 FOR WALL TYPE INFORMATION

TO CEILING +6"
TO DECK ABOVE
(ACOUSTIC / INSULATED) TO CEILING +6"
(ACOUSTIC / INSULATED) TO DECK ABOVE

NORTH

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D	90% CDs	
E	100% CDs	

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2ND FLOOR FINISH PLAN

REVISIONS:

No.	Description	Date

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CHECKED BY: JT
DATE: 04/06/2026

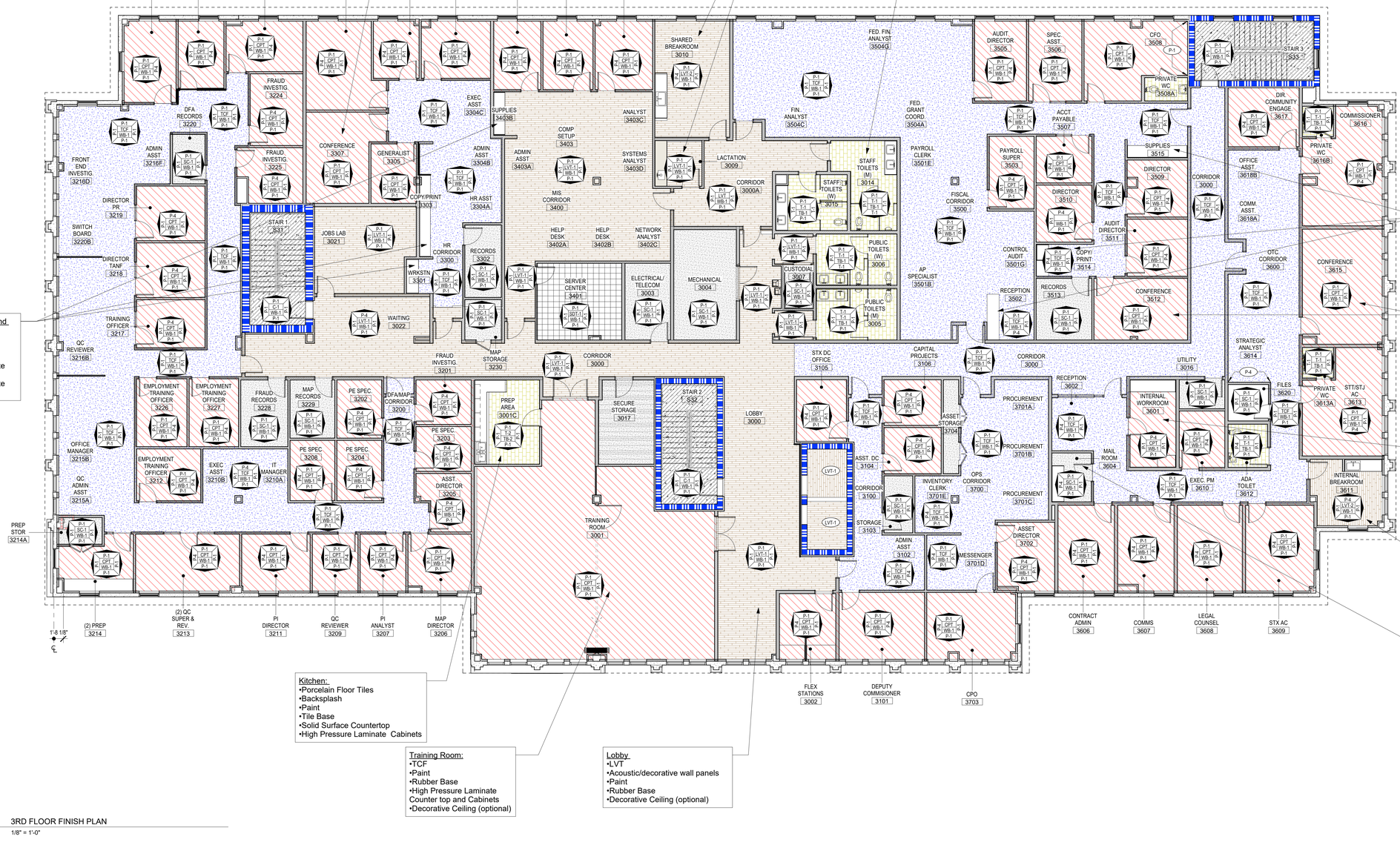
NOVUS JOB NUMBER 470-23-49
ODR TASK ORDER NUMBER 010-9-101918

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Conference Room:
- TCF
- Paint
- Rubber Base
- Acoustic Panels (optional)
- Specialty lighting (optional)
- Decorative Ceiling (optional)

Lactation and Breakroom:
- LVT
- Paint
- Rubber Base
- Solid surface counter top and back splash
- High Pressure Laminate cabinets

All Restrooms
- Porcelain Floor Tiles
- Wall Tiles at wet walls
- Paint
- Tile Base

Supplies, Copy/Print, and Work Station:
- TCF
- Paint
- Rubber Base
- High Pressure Laminate counter top
- High Pressure Laminate cabinets

Supplies, Copy/Print, and Reception
- TCF
- Paint
- Rubber Base
- High Pressure Laminate cabinets and vertical surfaces
- High Pressure Laminate

Conference Rooms:
- Carpet
- Paint
- Rubber Base
- Acoustic Panels (optional)
- Specialty lighting (optional)
- Decorative Ceiling (optional)

Internal Work Room:
- Carpet
- Paint
- Rubber Base
- Solid Surface desk top finish
- High Pressure Laminate cabinets and vertical surfaces

Internal Breakroom:
- LVT
- Paint
- Rubber Base
- Solid surface counter top and back splash
- High Pressure Laminate cabinets

Mail Room:
- Stained Concrete
- Paint
- Rubber Base
- Solid Surface desk top finish
- High Pressure Laminate cabinets and vertical surfaces

Kitchen:
- Porcelain Floor Tiles
- Backsplash
- Paint
- Tile Base
- Solid Surface Countertop
- High Pressure Laminate Cabinets

Training Room:
- TCF
- Paint
- Rubber Base
- High Pressure Laminate Counter top and Cabinets
- Decorative Ceiling (optional)

Lobby
- LVT
- Acoustic/decorative wall panels
- Paint
- Rubber Base
- Decorative Ceiling (optional)

B1 3RD FLOOR FINISH PLAN
A831 1/8" = 1'-0"

GENERAL FINISH NOTES

1. ALL PAINT COLOR AND VARNISH STAINS, FINISHES TO BE SELECTED BY ARCHITECT.
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FINISH SELECTIONS - INTERIOR

MARK	MATERIAL TYPE	PRODUCT DESCRIPTION	INSTALLATION	COMMENTS
800 - FINISHES				
ACT-1	ACOUSTICAL CEILING TILE	USG; RADAR CLIMAPLUS #2410; COLOR: WHITE		GRID: USG; DOWN DX DXL; FLAT WHITE #50
AP-1	ACOUSTICAL PANEL	SOELBERG; SLATZ WALL PANELS, COLOR TBD	RUN VERTICAL	PANEL SIZES. 47.5" x 96"
C-1	UNFINISHED CONCRETE			
CG-1	CORNER GUARD 90 DEGREE	ACROVYN; SM-20N; COLOR: TBD		4" HIGH
CPT-1	CARPET TILES	INTERFACE; STYLE: TBD	ASHLAR INSTALLATION	
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT, TERRAIN II; COLOR: TBD	ASHLAR	
LVT-2	LUXURY VINYL TILE	MANNINGTON; COLOR: TBD		
P-1	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		GENERAL WALL PAINT
P-2	PAINT	SHERWIN WILLIAMS; TBD		HM DOORS AND FRAMES - SEMI GLOSS
P-4	PAINT	SHERWIN WILLIAMS; TBD; EGGSHELL		ACCENT WALL PAINT
P-5	PAINT	SHERWIN WILLIAMS, SW 7007 CEILING BRIGHT WHITE		CEILING PAINT
PL-1	PLASTIC LAMINATE	WILSONART		
SC-1	STAINED CONCRETE			
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG, EXCELONG, 12" X 12"		
SS-1	SOLID SURFACE, CORIAN	CORIAN, COLOR: TBD		COUNTERS AND WINDOW SILLS
T-1	PORCELAIN TILE 12x24	DALTILE; VIRTUO; COMPOSER VR11; 12"x24"		TOILET ROOM FLOORS AND WALLS
T-2	QUARRY TILE	DALTILE QUARRY TILE; COLOR: ARID FLASH; SIZE: 6"x6"		KITCHEN AND PANTRY TILE
TB-1	TILE BASE	DALTILE; 6" H BASE		
TB-2	TILE BASE	DALTILE; QUARRY TILE BASE; COLOR: ARID FLASH, 5 x 6" ROUND TOP COVE BASE		
TCF	TEXTILE COMPOSITION TILE	J&J FLOORING, KINETEX	ASHLAR	
WB-1	WALL BASE	TARKETT; JOHNSONITE 4" HIGH MILLWORK BASE; COLOR: TBD		
WF-1	WALKOFF CARPET TILE	J+J FLOORING; STYLE: INCOGNITO; COLOR: TBD; SIZE: 24"x24"	QUARTER-TURN INSTALLATION	

FINISH SYMBOL LEGEND

GENERAL
- NOT IN SCOPE OF WORK (UNLESS NOTED OTHERWISE)
- WEST WALL FINISH
- NORTH WALL FINISH
- FLOOR FINISH
- EAST WALL FINISH
- WALL BASE FINISH
- SOUTH WALL FINISH

WALLS
- ACCENT FINISH

ACOUSTIC WALL PANEL TYPES
- (ASL-1) ACOUSTIC SURFACE LINER PANEL, (SEE SPECS.)
- (PAT-1) PREFABRICATED ACOUSTICAL TREATMENT, (SEE SPECS.)

FLOORING
- PORCELAIN TILE T
- CARPET CPT
- TEXTILE COMPOSITION TILE TCF
- LUXURY VINYL TILE LVT
- SEALED CONCRETE SC
- STATIC DISSIPATIVE TILE SDT

WALL LEGEND

- NON-RATED SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- 1 HOUR SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR SMOKE BARRIER
- TO CEILING +6"
- TO DECK ABOVE
- (ACOUSTIC / INSULATED) TO CEILING +6"
- (ACOUSTIC / INSULATED) TO DECK ABOVE

*SEE G201 FOR WALL TYPE INFORMATION

NORTH

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3RD FLOOR FINISH PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER 470-23-49
CDR TASK ORDER NUMBER 010-9-101918

SHEET NUMBER A831

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1. AXONOMETRIC - NORTHEAST



2. AXONOMETRIC - NORTHWEST



3. AXONOMETRIC - SOUTHEAST



4. AXONOMETRIC - SOUTHWEST

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3D OVERVIEW

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CHECKED BY: JT
DATE: 04/06/2026

NOVUS JOB NUMBER
470-23-49
CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A901

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1. BUILDING ELEVATION - NORTH



2. BUILDING ELEVATION - EAST



3. BUILDING ELEVATION - SOUTH



4. BUILDING ELEVATION - WEST

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3D ELEVATIONS

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DATE: 04/06/2026

NOVUS JOB NUMBER
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CDR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A902

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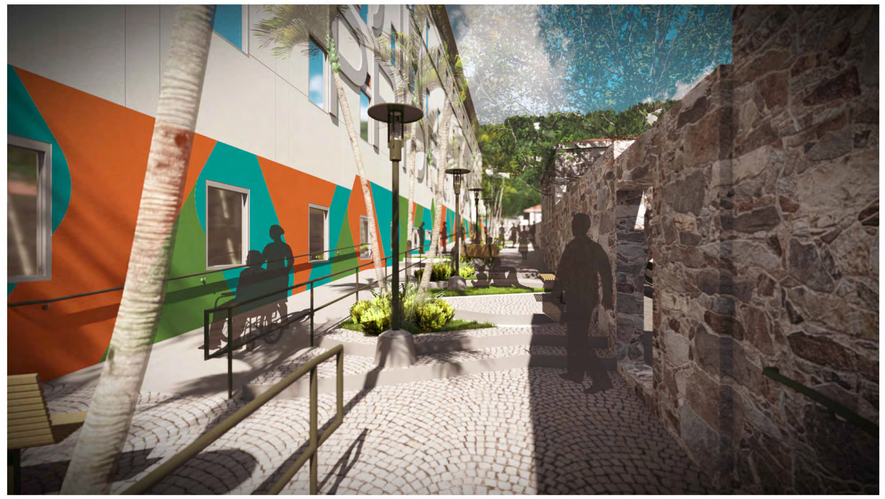
1. 3D PERSPECTIVE - MAIN ENTRY APPROACH



2. 3D PERSPECTIVE - LIGHTWELL STAIR



3. 3D PERSPECTIVE - MAIN ENTRY DROP OFF



4. 3D PERSPECTIVE - STEP STREET



5. 3D PERSPECTIVE - MAIN ENTRY PLAZA



6. 3D PERSPECTIVE - LOWER ENTRY PLAZA

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3D PERSPECTIVES

REVISIONS:

No.	Description	Date

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NOVUS JOB NUMBER
470-23-49
ODR TASK ORDER NUMBER
010-9-101918

SHEET NUMBER
A903

B: 30% CONSTRUCTION DOCUMENTS

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REMOVE IF USING BOOK SPECIFICATIONS ON THIS PROJECT

FIRE PROTECTION SPECIFICATIONS

1.00 - GENERAL PROVISIONS

1.1 PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING FIRE PROTECTION SYSTEM.

1.2 **CODES AND STANDARDS:** THE FIRE SPRINKLER PROTECTION SYSTEMS INSTALLATION, FLUSHING AND TESTING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13, 14 AND 24 AND ALL LOCAL CODES HAVING JURISDICTION.

1.3 **PIPE THREAD PATTERN:** ALL THREADS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT SPECIFICATIONS AND NFPA 1963.

1.4 **UL/FM APPROVAL:** ALL EQUIPMENT, VALVES, COUPLINGS, HANGERS, AND DEVICES SHALL BE APPROVED BY UNDERWRITERS' LABORATORY (UL) OR FACTORY MUTUAL (FM) FOR USE IN FIRE PROTECTION SERVICE.

1.5 **LICENSURE:** THE FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A STATE CERTIFIED FIRE PROTECTION CONTRACTOR.

1.6 ALL FIRE PROTECTION WORK SHALL BE DONE IN A NEAT AND WORKMAN-LIKE MANNER.

1.7 CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.

1.8 CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION.

1.9 CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE DAMAGED EQUIPMENT AND/OR MATERIAL.

1.10 **PIPING SHOP DRAWINGS:** SUBMIT 1/8" SCALE PIPING SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE SPRINKLER PIPING CUT LENGTHS, OFFSETS, FITTINGS AND DEVICES, ELEVATIONS, HANGER LOCATIONS, SPRINKLER HEAD COUNT BY TYPE, ELEVATION SECTIONS AND OTHER INSTALLATION INFORMATION. SUBMIT HYDRAULIC CALCULATIONS PROVING THE VIABILITY OF THE MOST HYDRAULICALLY-REMOTE AREAS OF THE PROJECT. INDICATE HYDRAULIC REFERENCE POINTS AND SUBMIT COMPUTER ANALYZED NODAL CALCULATIONS IN BOTH TABULAR AND GRAPHICAL FORMATS. HYDRAULIC IMBALANCE SHALL NOT EXCEED 0.01 GPM AT ANY NODE, AND WATER VELOCITY SHALL NOT EXCEED 20 FEET PER SECOND. DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS OF NFPA 13 REGARDING DENSITY, AREA OF APPLICATION, SELECTION OF HYDRAULICALLY-REMOTE AREAS, AND MAXIMUM COVERAGE PER SPRINKLER. ***SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY A STATE LICENSED PROFESSIONAL ENGINEER (PE).***

1.11 COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. ROUTE ALL PIPING TO AVOID DUCTWORK, PIPING, AND BUILDING STRUCTURE.

2.00 - BASIC MATERIALS AND METHODS

2.1 **GENERAL:** ONLY THE FOLLOWING MATERIALS DESIGNED FOR 175 PSIG CWP SHALL BE USED FOR FIRE PROTECTION PIPING UNLESS SPECIFICALLY INDICATED OTHERWISE. ALL PIPING MATERIALS SHALL HAVE A CORROSION RESISTANCE RATING (CCR) OF 1.0 OR GREATER.

2.2 **PIPE AND FITTINGS:** SCHEDULE 40 STEEL PIPE TO BE JOINED BY GROOVED COUPLINGS, THREADED FITTINGS. SCHEDULE 10 STEEL PIPE SHALL BE JOINED BY ROLLED GROOVE COUPLINGS OR WELDED ONLY.

2.3 **HANGERS:** ALL HANGER SPACING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA-13.
SPRINKLER CAGE GUARD: PROVIDE HEAD GUARDS ON ALL HEADS IN ELECTRICAL ROOMS AND ON ALL HEADS LESS THAN 7'-0" ABOVE FINISHED FLOOR.

2.4 **ACCESS PANELS:** PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

2.5 **HYDROSTATIC TESTS:** ABOVE GROUND AND BELOW GROUND PIPING SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF 2 HOURS. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED. THE SPRINKLER PIPING SHALL NOT HAVE LEAKAGE EXCEEDING THE AMOUNTS SPECIFIED IN NFPA 24. LEAKAGE QUANTITIES SHALL BE DETERMINED BY PUMPING AT THE SPECIFIED TEST PRESSURE FROM A CALIBRATED CONTAINER. REPAIR LEAKING JOINTS AND RETEST AS NECESSARY UNTIL ALL SYSTEMS HAVE BEEN TESTED. TEST THE PIPING BETWEEN THE CHECK VALVE IN THE FIRE DEPARTMENT INLET PIPE AND THE OUTSIDE CONNECTION THE SAME AS THE BALANCE OF THE SYSTEM.

3.00 - FIRE PROTECTION VALVES AND ACCESSORIES

3.1 **BUTTERFLY TYPE ISOLATION, 2-1/2 INCH AND LARGER:** ISOLATION VALVES 2-1/2 INCH AND LARGER SHALL BE CAST IRON BODY BUTTERFLY VALVES WITH THE VALVE SIZE, PRESSURE RATING, MANUFACTURER AND "UL" AND "FM" CAST INTO THE BODY. VALVE SHALL HAVE BRONZE OR CAST IRON DISC, NEOPRENE DISC LINER, CAST IRON HANDWHEEL WITH DISC POSITION INDICATOR, INTEGRAL TAMPER SWITCH, 175 PSIG CWP WORKING PRESSURE, 300 PSIG CWP TEST PRESSURE, AND FLANGED OR GROOVED CONNECTIONS - GRINNELL 8000 FP OR EQUAL.

3.2 **ISOLATION VALVE TAMPER SWITCH:** PROVIDE AN ELECTRONIC SUPERVISORY OR TAMPER SWITCH ON EACH ISOLATION VALVE IN THE SPRINKLER SYSTEM. UNIT SHALL HAVE A RED TAMPER-PROOF COVER WHICH WILL ACTIVATE AN ALARM OR TROUBLE SIGNAL WHEN ADJUSTED. PROVIDE UNIT WITH SINGLE-POLE, NORMALLY CLOSED MICROSWITCH, MOUNTING BRACKET, AND NON-RESETTABLE LOCK WITH REMOVABLE RESET KEY - SIMPLEX 2097-9035.

3.3 **FLOW SWITCH:** PROVIDE AN ELECTRIC FLOW SWITCH WHERE INDICATED OR REQUIRED. FLOW SHALL BE SENSED BY AN IMMERSION PADDLE, WITH AN ADJUSTABLE RETARD SETTING FROM 0 TO 70 SECONDS TO MINIMIZE FALSE ALARMS. FLOW SWITCH SHALL HAVE 2 SEPARATE SINGLE POLE, DOUBLE THROW MICROSWITCHES TO ACTIVATE A FLOW ALARM, OR TO INDICATE A TROUBLE SIGNAL IF THE FLOW SWITCH HOUSING IS TAMPERED. FLOW ALARM SHALL BE AUTOMATICALLY RESETTING. PROVIDE CLAMP-ON HOUSING TO SECURE UNIT TO PIPE, OR THREADED CONNECTION FOR TEE FITTING - POTTER ELECTRIC SIGNAL CO. VSR-S.

EDITOR NOTE: SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO BE SIGNED AND SEALED?

REQUIRED BY CODE: NO

REASONING: IN RECENT YEARS WE HAVE SEEN AN INCREASE NUMBER OF FIRE MARSHALLS IN VARIOUS FLORIDA'S JURISDICTIONS REQUIRE SHOP DRAWINGS AND CALCULATION SUBMITTED BY CONTRACTORS TO BE SIGNED AND SEALED BY A PE.

REMOVE IF NOT REQUIRED BY JURISDICATION.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
OR	- CONTROL VALVE W/ TAMPER SWITCH
	- CHECK VALVE
	- FLOW SWITCH
	- FIRE DEPARTMENT CONNECTION (WALL MOUNTED)
	- FIRE DEPARTMENT CONNECTION (SIDEWALK SIAMESE)
	- FIRE VALVE CABINET
	- STANDPIPE WITH FIRE DEPARTMENT VALVE
	- SPRINKLER DRAIN RISER
	- COMBINATION RISER
	- DRAIN VALVE
	- BACKFLOW PREVENTOR
	- BACKFLOW PREVENTOR W/ FDC
1	- REVISION REFERENCE
DETAIL No. / FP0_01 / SHEET SHOWN ON	- DETAIL REFERENCE CALLOUT
X	- HYDRAULIC NODE

REMOVE IF NOT APPLICABLE

DESIGN CRITERIA

ENTIRE SPACE (EXCEPT AS NOTED):

OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAX. COVERAGE/SPRINKLER HEAD:	225 SQ. FT. OR SPRINKLER LISTING
HOSE STREAM ALLOWANCE:	250 GPM

STORAGE, MECH./ELEC. ROOMS:

OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAX. COVERAGE/SPRINKLER HEAD:	130 SQ. FT. OR SPRINKLER LISTING
HOSE STREAM ALLOWANCE:	250 GPM

STANDPIPE:

SYSTEM DESCRIPTION:	AUTOMATIC WET

REFERENCE PUBLICATIONS:

THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM ON THIS PROJECT.

- FLORIDA FIRE PREVENTION CODE, 7th EDITION (2020)
- NFPA 2, HYDROGEN TECHNOLOGIES CODE, 2016 EDITION
- NFPA 4, STANDARD FOR INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING, 2018 EDITION
- NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2018 EDITION
- NFPA 11, STANDARD FOR LOW, MEDIUM, AND HIGH-EXPANSION FOAM, 2016 EDITION
- NFPA 12, STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS, 2015 EDITION
- NFPA 12A, STANDARD ON HALON 1301 FOR EXTINGUISHING SYSTEMS, 2015 EDITION
- NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION
- NFPA 13D, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN ONE AND TWO-FAMILY DWELLINGS AND MANUFACTURED HOMES, 2016 EDITION
- NFPA 13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN LOW-RISE RESIDENTIAL OCCUPANCIES, 2016 EDITION
- NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION
- NFPA 16, STANDARD FOR THE INSTALLATION OF FOAM-WATER SPRINKLER AND FOAM-WATER SPRAY SYSTEMS, 2015 EDITION
- NFPA 17, STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
- NFPA 17A, STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS
- NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2016 EDITION
- NFPA 22, STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION, 2013 EDITION
- NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2016 EDITION
- NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2017 EDITION

SPRINKLER TYPE CRITERIA:

SPRINKLERS IN GYPSUM BOARD CEILINGS, RECEPTIONS, SPECIALTY CEILINGS TO BE CONCEALED (WHITE COVERPLATE), AND SHALL BE RATED AT 165°F WITH A 5.6 K-FACTOR.

ALL SPRINKLERS IN OFFICES AND BACK OF HOUSE SPACES TO HAVE SEMI-RECESSED SPRINKLERS (CHROME FINISH), AND SHALL BE RATED AT 165°F WITH A 5.6 K-FACTOR.

ALL SPRINKLERS IN AREAS WITH NO CEILINGS TO HAVE BRASS UPRIGHT SPRINKLERS, AND SHALL BE RATED AT 165° F WITH A 5.6 K-FACTOR. PROVIDE SPRINKLER HEAD WITH GUARDS IN MECHANICAL/ELECTRICAL ROOMS.

FIRE PROTECTION FLOW TEST DATA

STATIC HYDRANT	FLOW HYDRANT	DATE - TBD
STATIC - TBD RESIDUAL - TBD	TBD	TIME - TBD

LOCATION - TBD

TEST CONDUCTED BY - TBD

FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32 NOTES:

1. THE FIRE PROTECTION SYSTEM SCOPE OF WORK SHALL INCLUDE THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS (WORKING PLANS). PROVIDE ALL EQUIPMENT, MATERIALS, COMPONENTS, ASSEMBLIES AND SUPPORT SYSTEMS REQUIRED, AS DESCRIBED, IN NFPA 13. THE FIRE PROTECTION CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS FOR PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS (WORKING PLANS).

2. THE FIRE PROTECTION DESIGN, CALCULATIONS, INSTALLATION AND THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13 ; NFPA 24 ; THE FLORIDA BUILDING CODE. THE FLORIDA FIRE PREVENTION CODE AND ALL LOCAL CODES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

3. AREA OCCUPANCIES AND HAZARD CLASSIFICATIONS ARE LISTED IN THE DESIGN CRITERIA NOTE LOCATED ON THE CONTRACT DOCUMENTS.

4. THE STRUCTURAL SUPPORTS AND OPENINGS FOR THE FIRE PROTECTION SYSTEM HAVE BEEN COORDINATED WITH THE STRUCTURAL ENGINEER.

5. ALL SYSTEM CONTROL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND INTERFACE WITH THE FACP ON THE SUPERVISORY CIRCUIT, ALL FLOW SWITCHES SHALL INTERFACE WITH THE FACP ON THE ALARM CIRCUIT.

6. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS AND HYDRAULIC CALCULATIONS, FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS WITH HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE LOCAL AHJ FOR ACCEPTANCE PRIOR TO PERMITTING.

7. ALL FIRE PROTECTION EQUIPMENT AND COMPONENTS SHALL BE LISTED AND TESTED FOR FIRE PROTECTION USE. ALL FIRE PROTECTION EQUIPMENT AND COMPONENTS SHALL BE THE U.L. LISTED AND FM APPROVED.

8. THE WATER SUPPLY FOR THE FIRE PROTECTION SYSTEM HAS NOT SHOWN ANY EVIDENCE OF MICROBIAL INDUCED CORROSION (MIC). THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY EVIDENCE OF MIC AND PROVIDE NECESSARY WATER TREATMENT AS NEED TO REDUCE OR ELIMINATE MIC.

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, 14, 20, 24 AND ALL APPLICABLE STATE CODES.

2. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.

3. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHAL AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION.

4. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.

5. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.

6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.

7. SPRINKLERS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER.

8. SPRINKLER LOCATIONS SHALL BE CENTERED IN THE TILE. PROVIDE ARMOVER OR SWING JOINT AS REQUIRED.

9. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK), EXPOSED BAR JOISTS THAT HAVE SPRAY-ON FIRE PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE PROOFING.

10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.

11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.

12. PROVIDE A PERMANENTLY ATTACHED NAME TAG TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY-DESIGNED SYSTEM.

13. PROVIDE SPRINKLERS UNDERNEATH ALL EXPOSED DUCTWORK WHICH IS OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS.

14. PROVIDE SPRINKLERS AT THE TOP AND BOTTOM OF ALL STAIRWELLS AND AT THE LANDING OF EACH FLOOR THAT OPENS INTO MORE THAN ONE FIRE ZONE.

15. PROVIDE SPRINKLER GUARDS ON ALL HEADS IN ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.

16. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.

17. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.

18. PROVIDE 20-GAUGE STEEL SPRINKLER CANOPY SHIELD AT SPRINKLERS IN TRASH CHUTE PER NFPA #13.

19. SPRINKLERS IN ELEVATOR SHAFTS AND EQUIPMENT ROOMS ARE TO BE INTERMEDIATE TEMPERATURE 200°F SPRINKLERS PER NFPA 13.

20. WET BULK SUPPLY MAINS AND HOSE SUPPLY MAINS EXPOSED TO THE WEATHER SHALL BE INSULATED AND PROVIDED WITH AN ALUMINUM JACKET.

21. THE FIRE PROTECTION SYSTEMS AND INFORMATION SHOWN WITHIN THESE DRAWINGS AND THE SPECIFICATIONS, REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD. THESE DRAWINGS AND SPECIFICATIONS ARE IN COMPLIANCE WITH STATE RULE 61G15-32 FOR FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT LAYOUT DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR PERMITTING AND REVIEW. THE LAYOUT DRAWINGS SHALL BE IN COMPLIANCE WITH FLORIDA STATE RULE 61G15-32 AND NFPA 13 - WORKING PLANS SECTION.

22. IN ADDITION TO STANDARD LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS, SIGNED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER (PE).

23. THE NEW XX" WATER MAIN IS CONNECTED TO AN EXISTING XX" LOOPED WATER MAIN.

24. THE LOCAL WATER SUPPLIER HAS NOT INDICATED THAT THE WATER SUPPLY COULD LEAD TO MICROBIAL INDUCED CORROSION.

25. ALL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND ALL ZONES SHALL BE PROVIDED WITH FLOW SWITCHES WIRED TO THE FIRE ALARM SYSTEM.

EDITOR NOTE: SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO BE SIGNED AND SEALED?

REQUIRED BY CODE: NO

REASONING: IN RECENT YEARS WE HAVE SEEN AN INCREASE NUMBER OF FIRE MARSHALLS IN VARIOUS FLORIDA'S JURISDICTIONS REQUIRE SHOP DRAWINGS AND CALCULATION SUBMITTED BY CONTRACTORS TO BE SIGNED AND SEALED BY A PE.

REMOVE IF NOT REQUIRED BY JURISDICATION.

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FIRE PROTECTION DRAWING INDEX

SHEET	DESCRIPTION
FP001	FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX
FP100	FIRE PROTECTION SITE PLAN
FP101	FIRE PROTECTION LOWER LEVEL FLOOR PLAN
FP101A	FIRE PROTECTION LOWER LEVEL FLOOR PLAN
FP102	FIRE PROTECTION MAIN FLOOR PLAN
FP102A	FIRE PROTECTION MAIN FLOOR PLAN
FP103	FIRE PROTECTION SECOND FLOOR PLAN
FP103A	FIRE PROTECTION SECOND FLOOR PLAN
FP104	FIRE PROTECTION THIRD FLOOR PLAN

1 FP - Legend (FLORIDA)
1/2" = 1'-0"

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C	60% CDs	
D	90% CDs	
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FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX

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REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
FP001

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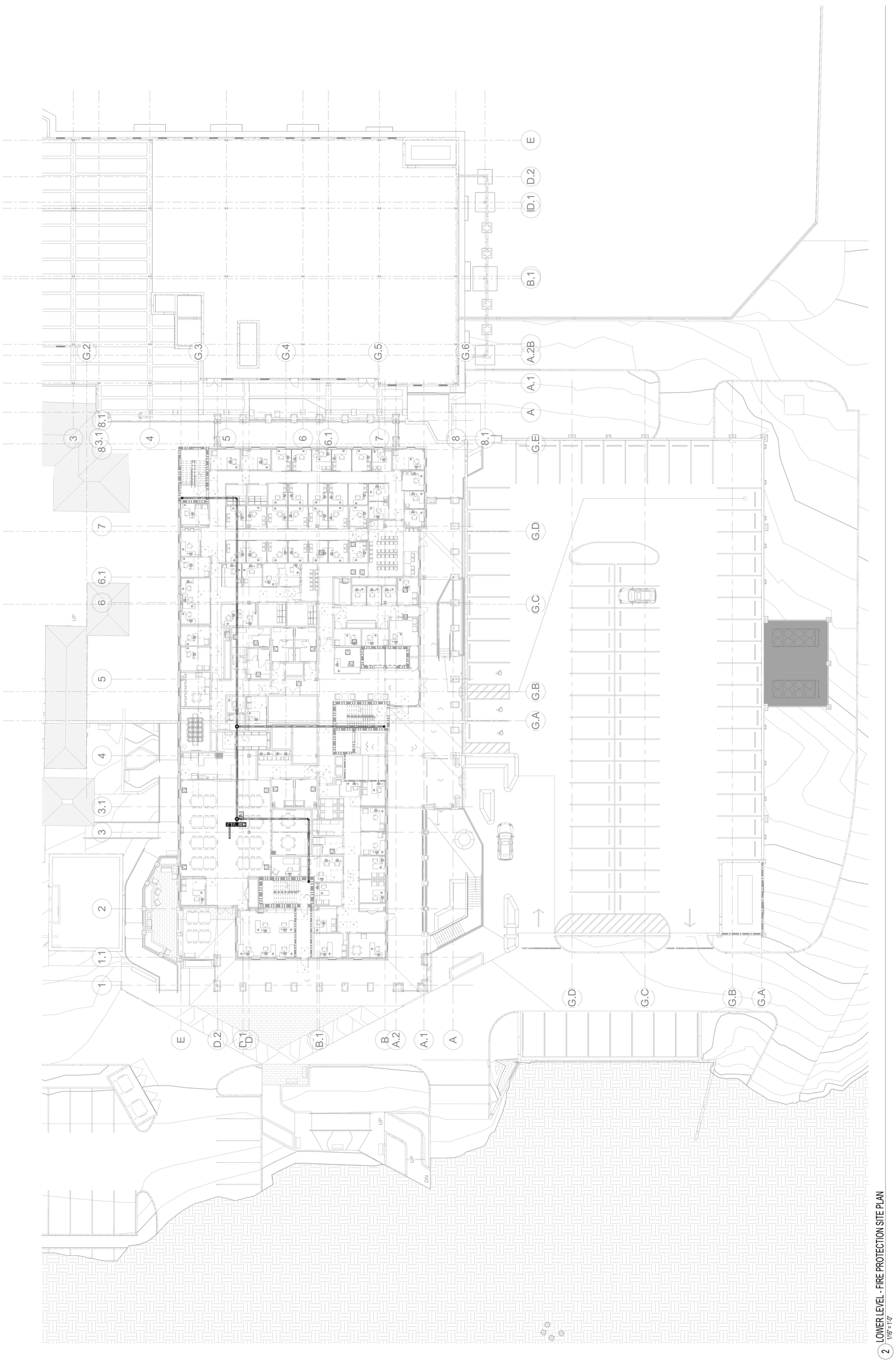
FIRE PROTECTION SITE PLAN

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SLA JOB NUMBER: SLA 470-23-49
GSA PROJECT NUMBER: 101918

SHEET NUMBER: FP100

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2 LOWER LEVEL - FIRE PROTECTION SITE PLAN
1/16" = 1'-0"

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1 LOWER LEVEL - FIRE PROTECTION
FP101 1/8" = 1'-0"

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FIRE PROTECTION LOWER LEVEL FLOOR PLAN

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SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
FP101

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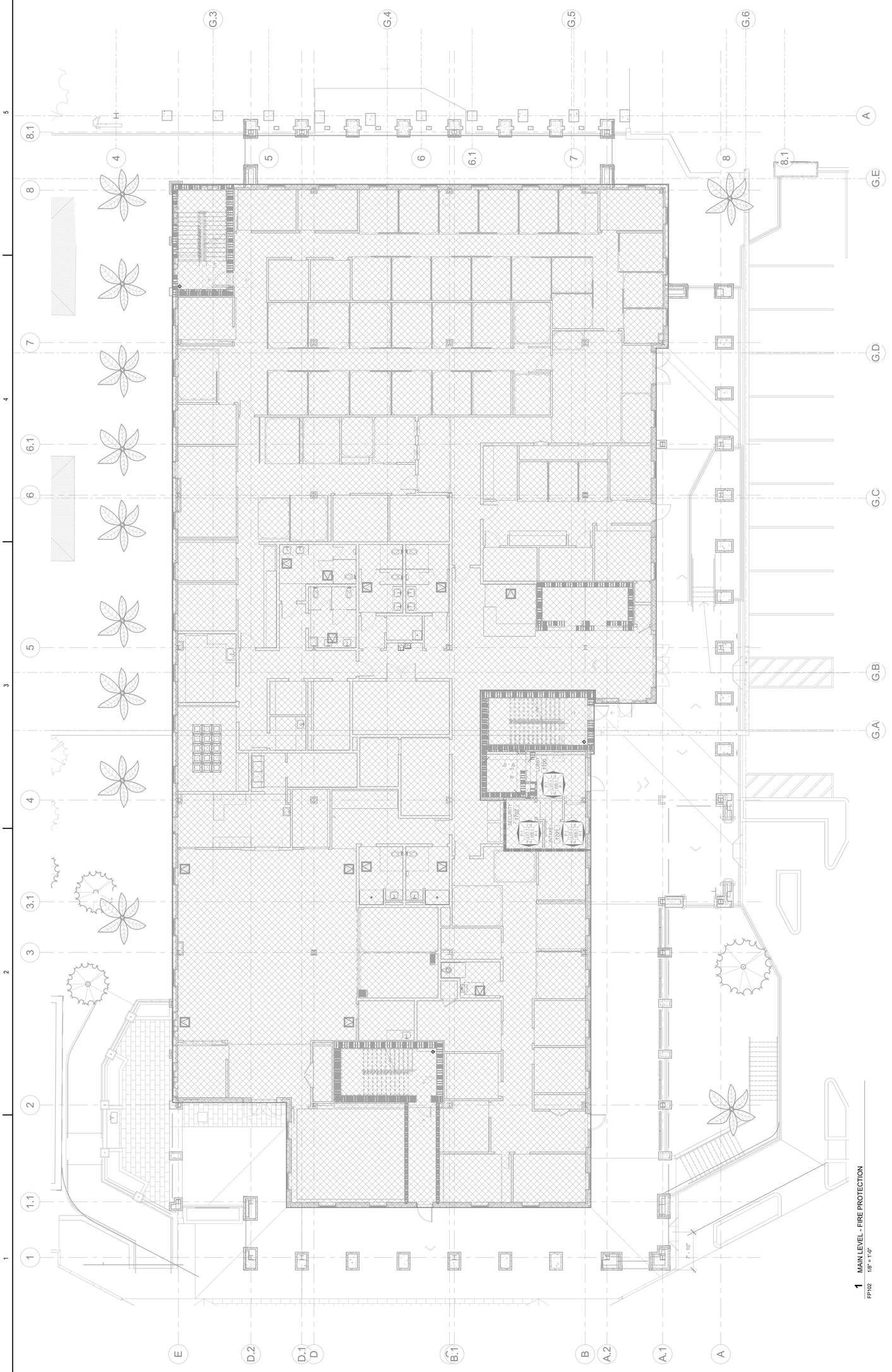
FIRE PROTECTION MAIN FLOOR PLAN

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SLA JOB NUMBER: SLA 470-23-49
GSI PROJECT NUMBER: 101918

SHEET NUMBER: FP102



1 MAIN LEVEL - FIRE PROTECTION
FP102 1/8" = 1'-0"

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TRANSITION PIPING TO NORTH SIDE OF STAIR IN CEILING SPACE OF SECOND FLOOR BEFORE CONTINUING UP TO THE THIRD FLOOR

1 SECOND FLOOR - FIRE PROTECTION PLAN
FP103 1/8" = 1'-0"

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FIRE PROTECTION SECOND FLOOR PLAN

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ODR PROJECT NUMBER: 101918
SHEET NUMBER: FP103

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1 THIRD LEVEL - FIRE PROTECTION PLAN
FP104 1/8" = 1'-0"

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FIRE PROTECTION THIRD FLOOR PLAN

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REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
FP104

30% CDS

PLUMBING SPECIFICATIONS

1.00 - GENERAL PROVISIONS

1.01 PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM.

1.02 CODES AND STANDARDS: ALL PLUMBING WORK SHALL BE IN STRICT COMPLIANCE WITH THE 2024 UNIFORM PLUMBING CODE AND ALL LOCAL CODES HAVING JURISDICTION.

1.03 ALL PLUMBING WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.

1.04 CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION.

1.05 CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE DAMAGED EQUIPMENT AND/OR MATERIAL.

1.06 PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE. PROVIDED PLASTIC COATED RING ON HANGERS FOR COPPER PIPING TO PROVIDE DIELECTRIC ISOLATION.

1.07 PROVIDE DIELECTRIC UNIONS OR FLANGES BETWEEN COPPER AND STEEL PIPING AND BETWEEN BRASSWARE AND STEEL. DO NOT USE STEEL AND COPPER PIPING IN THE SAME SYSTEM WITHOUT SUCH ISOLATION.

1.08 PROVIDE REDUCING FITTINGS (REDUCING BUSHINGS SHALL NOT BE USED) WHERE CHANGES IN PIPE SIZES OCCUR.

1.09 THIS CONTRACTOR SHALL SUPPLY AND INSTALL ALL SERVICES THROUGHOUT THE BUILDING AND MAKE CONNECTION TO SITE UTILITIES APPROXIMATELY 5'-0" OUTSIDE THE BUILDING. CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURES, FITTINGS, VALVING AND TRIM AND MAKE READY FOR USE ALL FIXTURES, EQUIPMENT, ETC.

1.10 SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

2.00 - BASIC MATERIALS AND METHODS

2.01 DOMESTIC WATER - ABOVEGROUND WATER PIPE AND FITTINGS - TYPE "L" COPPER.

2.02 PROVIDE UNIONS OR FLANGES IN ALL DOMESTIC WATER SERVICE LINES AT EACH PIECE OF EQUIPMENT, SPECIALTY VALVES OR AT OTHER LOCATIONS REQUIRED FOR READY DISCONNECT.

2.03 WATER HAMMER ARRESTORS SHALL BE INSTALLED AT THE LOCATIONS ON THE PLANS AND IN ACCORDANCE WITH PDI STANDARD WH-201. PRODUCTS SHALL BE EQUAL TO THOSE MANUFACTURED BY PRECISION PLUMBING PRODUCTS OR SIOUX CHIEF.

2.04 VALVES: PROVIDE VALVES TO ISOLATE EACH RISER, BRANCH LINE AND PIECE OF EQUIPMENT.

2.05 PROVIDE PRESSURE REDUCING VALVE AND AIR GAP CONNECTION AT DISHWASHER AS REQUIRED BY CODE AND ACCORDING TO MANUFACTURER.

2.06 PROVIDE IN INLINE WATER FILTER AT COFFEE MAKER AND ICE MAKER TO REMOVE MATERIALS, TASTE AND ODOR - "EVERPURE OR "SYSTEMS IV".

2.07 SANITARY WASTE (NON-PRESSURE), SANITARY VENT AND STORM PIPING - ABOVE GROUND - NO-HUB CAST IRON SOIL PIPE AND FITTINGS PER CISPI 301 WITH HEAVY DUTY SHIELDED STAINLESS STEEL COUPLINGS.

2.08 CONDENSATE PIPING - DWV COPPER OR NO-HUB CAST IRON SOIL PIPE AND FITTINGS PER CISPI 301 WITH HEAVY DUTY SHIELDED STAINLESS STEEL COUPLINGS.

2.09 INSTALL GRAVITY LINES SLOPED AT 1/8" PER FOOT FOR PIPE 3" AND LARGER AND 1/4" PER FOOT FOR PIPE SMALLER THAT 3". VERIFY INVERT ELEVATION WITH EXISTING PIPING PRIOR TO ANY PIPE BEING INSTALLED.

2.10 PROVIDE AND PROPERLY LOCATE HANGERS TO ADEQUATELY SUPPORT PIPING. ARRANGE HANGERS TO PERMIT EXPANSION AND CONTRACTION. DO NOT HANG PIPING FROM FIRE OR SMOKE WALLS. PROVIDE PIPE HANGERS AT EACH VALVE, STRAINER, AND OTHER PIPING ACCESSORY, AND AT EACH CHANGE OR DIRECTION.

2.11 THE SIZE OF HANGERS FOR NON-INSULATED PIPES SHALL BE SUITABLE FOR THE PIPE SIZE TO BE SUPPORTED. FOR INSULATED PIPING, THE SIZE OF THE HANGER SHALL BE SUITABLE FOR THE PIPE SIZE, PLUS THE INSULATION AND INSULATION SHIELD.

2.12 SPACING: LOCATE PIPE SUPPORTS AS INDICATED IN THE FOLLOWING TABLE:

HORIZONTAL PIPE HANGER SCHEDULE		
MATERIAL	PIPE SIZE	HANGER SPACING
COPPER TUBING	UP TO 1 1/4 INCH 1 1/2 INCH AND ABOVE	6 FOOT CENTERS 10 FOOT CENTERS
CAST IRON PIPE	ALL	5 FOOT CENTERS

3.00 - PLUMBING FIXTURES AND TRIM

3.01 ALL PLUMBING FIXTURES SHALL BE "FIRST QUALITY" AS DEFINED AND SET FORTH IN COMMERCIAL STANDARD CS77-28 AS PROMULGATED BY THE U.S. DEPARTMENT OF COMMERCE.

3.02 ALL FIXTURES ARE TO BE WHITE VITREOUS CHINA UNLESS OTHERWISE SPECIFICALLY NOTED. FIXTURES AND FITTINGS PROPOSED SHALL BE FROM ONE MANUFACTURER AND OF SIMILAR CHARACTER IN ANY ROOM OR LOCATION. ESCUTCHEONS, HANDLES, ETC., ON THE DIFFERENT FIXTURES SHALL BE OF THE SAME DESIGN.

3.03 PROVIDE FIXTURE CARRIERS AS RECOMMENDED BY FIXTURE MANUFACTURER AND/OR CONSTRUCTION METHOD.

3.04 PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

3.05 FLOOR DRAIN TRAP SEALS SHALL HAVE AN APPROVED PRIMING DEVICE DESIGNED FOR THAT PURPOSE.

3.06 ALL CONCEALED TRAPS, PRIMERS, VALVES, CLEANOUTS, ETC. LOCATED IN TILED AREAS SHALL BE PROVIDED WITH AN ACCESS PANEL.

4.00 - INSULATION

4.01 ABOVE GROUND COLD AND HOT WATER PIPING - FIBERGLASS, 1" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

4.02 ABOVE GROUND STORM PIPING - FIBERGLASS, 1/2" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75° F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

4.03 ABOVEGROUND CONDENSATE PIPING SHALL BE 1/2" FLEXIBLE UNICELLULAR POLYOLEFIN FOAM AND SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50-IMCOA "IMCOLOCK".

5.00 - VALVES AND COCKS

5.01 VALVES 2" AND SMALLER SHALL BE BALL VALVES. 150 PSI SWP, 400 PSI WOG. STANDARD PORT BALL, BRONZE TRIM, CAST BRONZE BODY, CHROMIUM-PLATED BRASS BALL, BRONZE NON-BLOWOUT STEM, TEFLON SEAT, DOUBLE O-RING STEM SEALS, ZINC-COATED STEEL HANDLE WITH PLASTIC COATED HAND GRIP, 90 DEGREE OPERATION FROM FULL OPEN TO TIGHT SHUT-OFF - STOCKHAM S214-BR-T-T, STOCKHAM S216-BR-T-S OR EQUAL.

5.02 CHECK VALVES, ROUGH BRASS, REGRINDING BRONZE DISC - STOCKHAM B-345; B-309 OR EQUAL.

6.00 - STERILIZATION

6.01 DOMESTIC WATER PIPING SHALL BE THOROUGHLY FLUSHED OUT AND STERILIZED IN ACCORDANCE WITH THE UPC CODE.

GENERAL GRAVITY DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO DEMOLITION. FIELD CONDITIONS SHALL GOVERN. FIELD VERIFY LOCATIONS OF EXISTING PIPING BEFORE DEMOLITION. PROVIDE ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT. COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ITEMS NOT INDICATED. COORDINATE DEMOLITION OF EXISTING PIPING WITH NEW WORK. PIPING CONNECTING TO AREAS OUTSIDE OF RENOVATED SPACE SHALL NOT TO BE DISCONNECTED UNTIL AFTER NEW PIPING IS INSTALLED. COORDINATE SYSTEM SHUT DOWNS WITH THE FACILITY PRIOR TO DEMOLITION.
2. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE TURNED OVER TO THE OWNER, OR DISPOSED OF AT THE OWNER'S DISCRETION.
3. ALL VENT PIPING INDICATED ON THIS DRAWING IS LOCATED IN THE CEILING SPACE OR WALL SPACES UNLESS NOTED OTHERWISE. FIELD VERIFY BEFORE CONSTRUCTION.
4. ALL SANITARY PIPING INDICATED ON THIS DRAWING IS LOCATED BELOW THE FLOOR SLAB OR WALL CHASE UNLESS NOTED OTHERWISE. OFFSET ALL EXISTING SANITARY AND VENT RISERS FROM FLOOR ABOVE TO WALLS ON NEW FLOOR PLAN. FIELD VERIFY EXACT LOCATION AND PROVIDE REQUIRED OFFSET TO FACILITATE OPERATION OF PLUMBING SYSTEMS TO THE FLOORS ABOVE AND BELOW.
5. CARE MUST BE TAKEN WHEN REMOVING PIPE AROUND LOAD BEARING WALLS. THE WALL OR FOOTING BELOW IS NOT TO BE DESTROYED.
6. EXISTING ROOF DRAINS AND RAIN WATER LEADER PIPING TO REMAIN UNLESS OTHERWISE NOTED. FIELD VERIFY ROUTING OF EXISTING PIPING BEFORE CONSTRUCTION BEGINS. EXISTING RAIN WATER PIPING LOCATED IN WALLS TO BE REMOVED SHALL BE REROUTED OVER HEAD TO A NEW WALL LOCATION AND RECONNECTED TO THE UNDERGROUND STORM.
7. CUT AND PATCH CEILINGS, WALLS AND FLOOR SLAB AS REQUIRED TO FACILITATE PLUMBING RENOVATION. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS.
8. EXISTING BUILDING DRAINS UNDER CONCRETE SLABS AND EXISTING BUILDING SEWERS THAT SERVES THE SYSTEM SHALL BE INTERNALLY EXAMINED TO VERIFY THAT THE PIPING IS SLOPING IN THE CORRECT DIRECTION, IS NOT BROKEN, IS NOT OBSTRUCTED AND IS SIZED FOR THE DRAINAGE LOAD OF THE NEW PLUMBING DRAINAGE SYSTEM TO BE INSTALLED.

GENERAL PRESSURE DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO DEMOLITION. FIELD CONDITIONS SHALL GOVERN. FIELD VERIFY LOCATIONS OF EXISTING PIPING BEFORE DEMOLITION. PROVIDE ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT. COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ITEMS NOT INDICATED. COORDINATE DEMOLITION OF EXISTING PIPING WITH NEW WORK. PIPING CONNECTING TO AREAS OUTSIDE OF RENOVATED SPACE SHALL NOT TO BE DISCONNECTED UNTIL AFTER NEW PIPING IS INSTALLED. COORDINATE SYSTEM SHUT DOWNS WITH THE FACILITY PRIOR TO DEMOLITION.
2. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
3. ALL WATER PIPING INDICATED ON THIS DRAWING IS LOCATED IN THE CEILING SPACE OR WALL SPACES UNLESS NOTED OTHERWISE. FIELD VERIFY BEFORE CONSTRUCTION.
4. CARE MUST BE TAKEN WHEN REMOVING PIPE AROUND LOAD BEARING WALLS. THE WALL OR FOOTING BELOW IS NOT TO BE DESTROYED.
5. CUT AND PATCH CEILINGS, WALLS AND FLOOR SLAB AS REQUIRED TO FACILITATE PLUMBING RENOVATION. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS.

GENERAL KITCHEN NOTES

1. PLUMBING CONTRACTOR SHALL VERIFY ALL FIXTURE REQUIREMENTS WITH FOOD SERVICE DRAWINGS. RFIs REGARDING ANY DISCREPANCIES FOUND BETWEEN FOOD SERVICE AND PLUMBING DRAWINGS SHALL BE PROVIDED PRIOR TO BID.
2. DRAIN TEMPERING VALVE SHALL BE PROVIDED FOR ALL DRAINS THAT DISCHARGE WATER GREATER THAN 140°F TO PVC GREASE/SANITARY SYSTEM AND FIRST 15' OF PIPING SHALL BE SERVICE WEIGHT CAST IRON.
3. FOOD WASTE GRINDERS SHALL NOT CONNECT TO GREASE SYSTEM.
4. PLUMBING CONTRACTOR SHALL PROVIDE GAS REGULATOR TO ALL GAS EQUIPMENT.
5. GAS SOLENOID VALVE SHALL BE PROVIDED ON MAIN KITCHEN GAS LINE. SOLENOID VALVE SHALL BE CONNECTED TO ANSUL SYSTEM.
6. ALL INDIRECT WASTE PIPE SHALL BE TYPE L COPPER AND SHALL TERMINATE BY AIR GAP.

PLUMBING GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
4. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
5. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
6. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
7. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
8. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
9. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
12. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
13. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
14. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
15. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
16. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
17. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
18. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
19. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
20. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
21. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
22. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
23. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
24. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWRAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)
25. PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
CD	- CONDENSATE DRAIN PIPING
CW	- DOMESTIC COLD WATER PIPING
HW	- DOMESTIC HOT WATER PIPING
HWR	- DOMESTIC HOT WATER RETURN PIPING
S	- SANITARY WASTE PIPING
V	- VENT PIPING
ST	- STORM DRAIN PIPING
STO	- OVERFLOW STORM DRAIN PIPING
G	- FUEL GAS PIPING
	- HOSE BIBB OR WALL HYDRANT
	- CLEANOUT PLUG
	- WALL CLEANOUT
	- FLOOR CLEANOUT / EXTERIOR CLEANOUT
FD	- FLOOR DRAIN
FS	- FLOOR SINK
DD	- DECK DRAIN
	- SHUT-OFF VALVE
	- BALL VALVE
	- CALIBRATED BALANCING VALVE
	- CHECK VALVE (SWING)
	- PRESSURE REDUCING VALVE
S	- SOLENOID OPERATING VALVE
	- GAS COCK
	- GAS PRESSURE REGULATOR
DETAIL No. 4 / P4.101 SHEET No. SHOWN ON	- DETAIL REFERENCE
PIPE SIZE / PLUMBING SYSTEM	- PIPE TAG
1	- REVISION REFERENCE

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CA	- COMPRESSED AIR
AFF	- ABOVE FINISH FLOOR
AW	- ACID WASTE
AV	- ACID VENT
CB	- CATCH BASIN
CD	- CONDENSATE DRAIN
CFH	- CUBIC FEET PER HOUR
CO	- CLEANOUT
CONT	- CONTINUATION
CW	- DOMESTIC COLD WATER
DI	- DEIONIZED WATER
DN	- DOWN
DS	- DOWNSPOUT
DWG	- DRAWING
EXIST	- EXISTING
°F	- DEGREE FAHRENHEIT
FCO	- FLOOR CLEANOUT
FD	- FLOOR DRAIN
FOF	- FUEL OIL FILL
FOG	- FUEL OIL GAGE
FOR	- FUEL OIL RETURN
FOS	- FUEL OIL SUPPLY
FOV	- FUEL OIL VENT
FS	- FLOOR SINK
FSE#	- FOODSERVICE EQUIPMENT NUMBER
G	- GAS
GPH	- GALLONS PER HOUR
GPM	- GALLONS PER MINUTE
GR	- KITCHEN WASTE (GREASE)
HB	- HOSE BIBB
HD	- HUB DRAIN
HW	- DOMESTIC HOT WATER
HWR	- DOMESTIC HOT WATER RECIRCULATING
IE	- INVERT ELEVATION
IW	- INDIRECT WASTE
KW	- KILOWATT
LBS	- POUNDS
MH	- MANHOLE
NC	- NORMALLY CLOSED
NIC	- NOT IN CONTRACT
NO	- NORMALLY OPEN
NP	- NON-POTABLE WATER
NTS	- NOT TO SCALE
OD	- OUTSIDE DIAMETER
PRV	- PRESSURE REDUCING VALVE
PSI	- POUNDS PER SQUARE INCH
PVC	- POLYVINYL CHLORIDE PIPE
RD	- ROOF DRAIN
RPBP	- REDUCED PRESSURE BACKFLOW PREVENTOR
SAN	- SANITARY
SD	- STORM DRAIN
SF	- SQUARE FEET
SH	- SHEET
ST	- STORM
STO	- OVERFLOW STORM DRAIN
SW	- SOFT COLD WATER
V	- VENT
VAC	- VACUUM
VC	- VACUUM CLEANING
VTR	- VENT THRU ROOF
WCO	- WALL CLEANOUT
WTR	- WATER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING DRAWING INDEX

SHEET	DESCRIPTION
P001	PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX
P102	PLUMBING LOWER FLOOR PLAN
P103	PLUMBING MAIN FLOOR PLAN
P104	PLUMBING SECOND FLOOR PLAN
P105	PLUMBING THIRD FLOOR PLAN
P106	PLUMBING ROOF PLAN
P111	PLUMBING LOWER LEVEL PARKING DECK PLAN
P112	PLUMBING MAIN FLOOR PARKING DECK PLAN
P202	PLUMBING LOWER LEVEL PRESSURE PLAN
P204	PLUMBING SECOND LEVEL PRESSURE PLAN
P205	PLUMBING THIRD LEVEL PRESSURE PLAN
P401	PLUMBING RISER DIAGRAM - STORM

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St. Thomas, US. Virgin Islands 00802

PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX

NOT FOR CONSTRUCTION

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No.	Description	Date

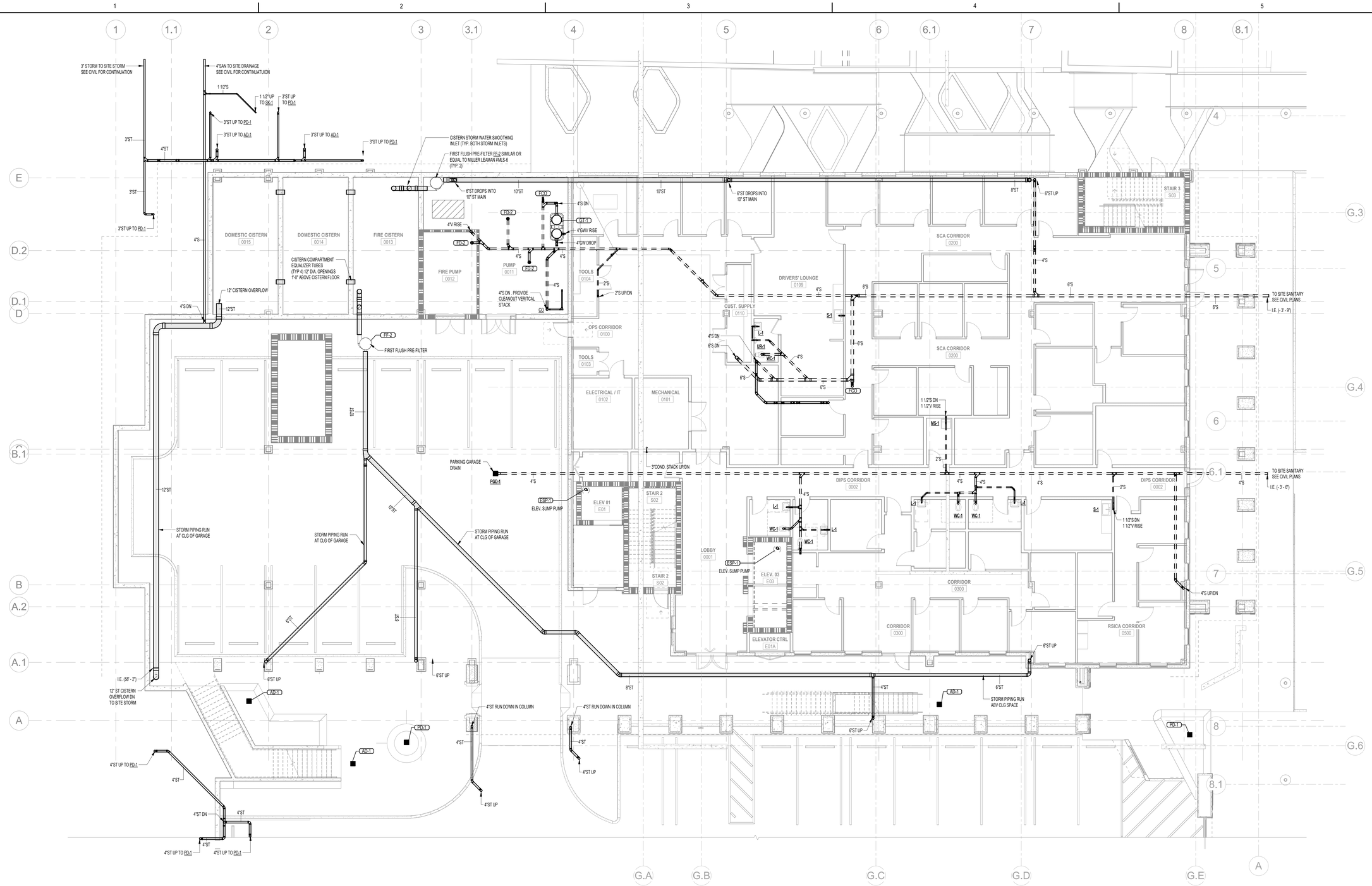
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SHEET NUMBER
P001

30% CDS



1 LOWER LEVEL - PLUMBING

P102 1/8" = 1'-0"

DRAWING NOTES:

1. ALL STORM PIPING SHOWN ON THIS PLAN RUN ABOVE CEILING UNLESS OTHERWISE NOTED.
2. ALL SANITARY DRAINAGE SHOWN ON THIS PLAN RUN BELOW SLAB UNLESS OTHERWISE NOTED.
3. ALL WATER CLOSET AND FLOOR DRAIN VENTING TO TAP OFF DRAIN BELOW SLAB AND PENETRATE UP ABOVE CEILING AND TIE INTO VENTING SYSTEM.
4. ALL OTHER VENTING SHOWN TO BE RUN ABOVE CEILING

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PLUMBING LOWER FLOOR PLAN

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30% CDS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
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DATE: 4/6/2026

SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
P102



1 MAIN LEVEL - PLUMBING

P103 1/8" = 1'-0"

DRAWING NOTES:

1. ALL STORM PIPING SHOWN ON THIS PLAN RUN ABOVE CEILING UNLESS OTHERWISE NOTED.
2. ALL SANITARY DRAINAGE SHOWN ON THIS PLAN RUN BELOW SLAB UNLESS OTHERWISE NOTED.
3. ALL WATER CLOSET AND FLOOR DRAIN VENTING TO TAP OFF DRAIN BELOW SLAB AND PENETRATE UP ABOVE CEILING AND TIE INTO VENTING SYSTEM
4. ALL OTHER VENTING SHOWN TO BE RUN ABOVE CEILING

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PLUMBING MAIN FLOOR PLAN

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ODR PROJECT NUMBER
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SHEET NUMBER
P103

30% CDS

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1 SECOND FLOOR - PLUMBING
P104 1/8" = 1'-0"

DRAWING NOTES:

1. ALL STORM PIPING SHOWN ON THIS PLAN RUN ABOVE CEILING UNLESS OTHERWISE NOTED.
2. ALL SANITARY DRAINAGE SHOWN ON THIS PLAN RUN BELOW SLAB UNLESS OTHERWISE NOTED.
3. ALL WATER CLOSET AND FLOOR DRAIN VENTING TO TAP OFF DRAIN BELOW SLAB AND PENETRATE UP ABOVE CEILING AND TIE INTO VENTING SYSTEM.
4. ALL OTHER VENTING SHOWN TO BE RUN ABOVE CEILING

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PLUMBING SECOND FLOOR PLAN

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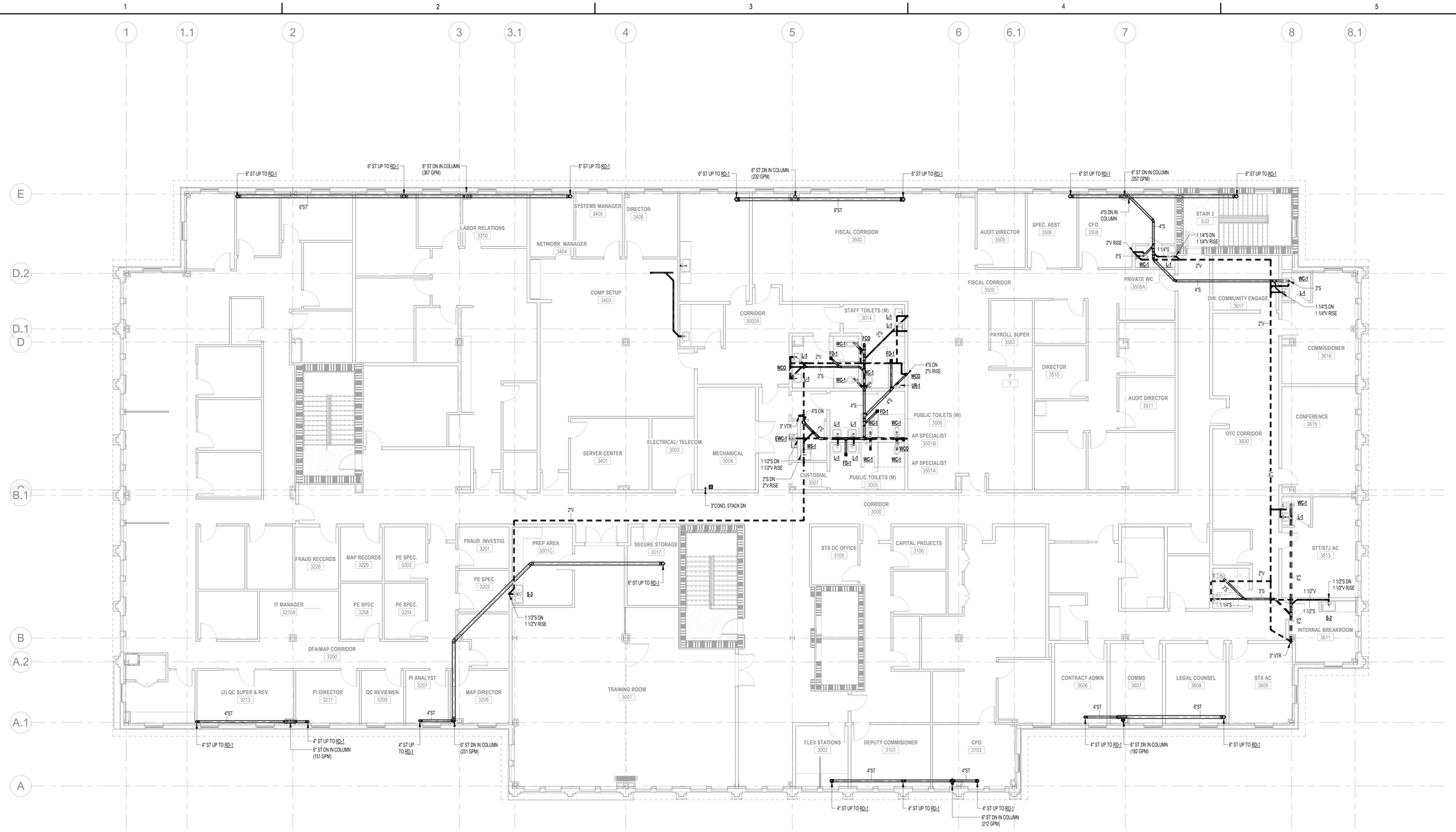
SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
P104

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1 THIRD LEVEL - PLUMBING

P105 1/8" = 1'-0"

DRAWING NOTES:

1. ALL STORM PIPING SHOWN ON THIS PLAN RUN ABOVE CEILING UNLESS OTHERWISE NOTED.
2. ALL SANITARY DRAINAGE SHOWN ON THIS PLAN RUN BELOW SLAB UNLESS OTHERWISE NOTED.
3. ALL WATER CLOSET AND FLOOR DRAIN VENTING TO TAP OFF DRAIN BELOW SLAB AND PENETRATE UP ABOVE CEILING AND TIE INTO VENTING SYSTEM.
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PLUMBING THIRD FLOOR PLAN

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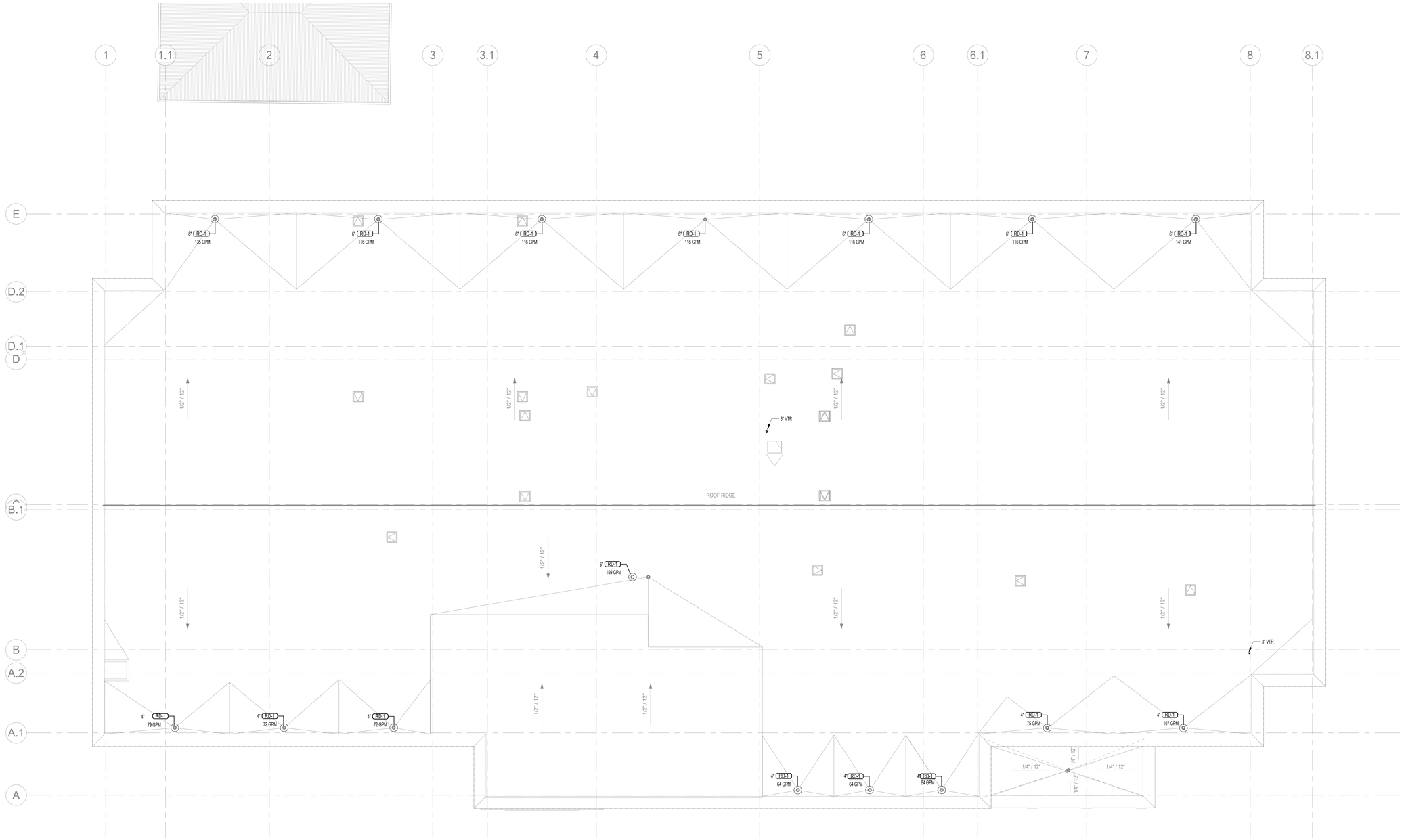
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SHEET NUMBER
P105



1 ROOF LEVEL - PLUMBING
P106 1/8" = 1'-0"

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PLUMBING ROOF PLAN

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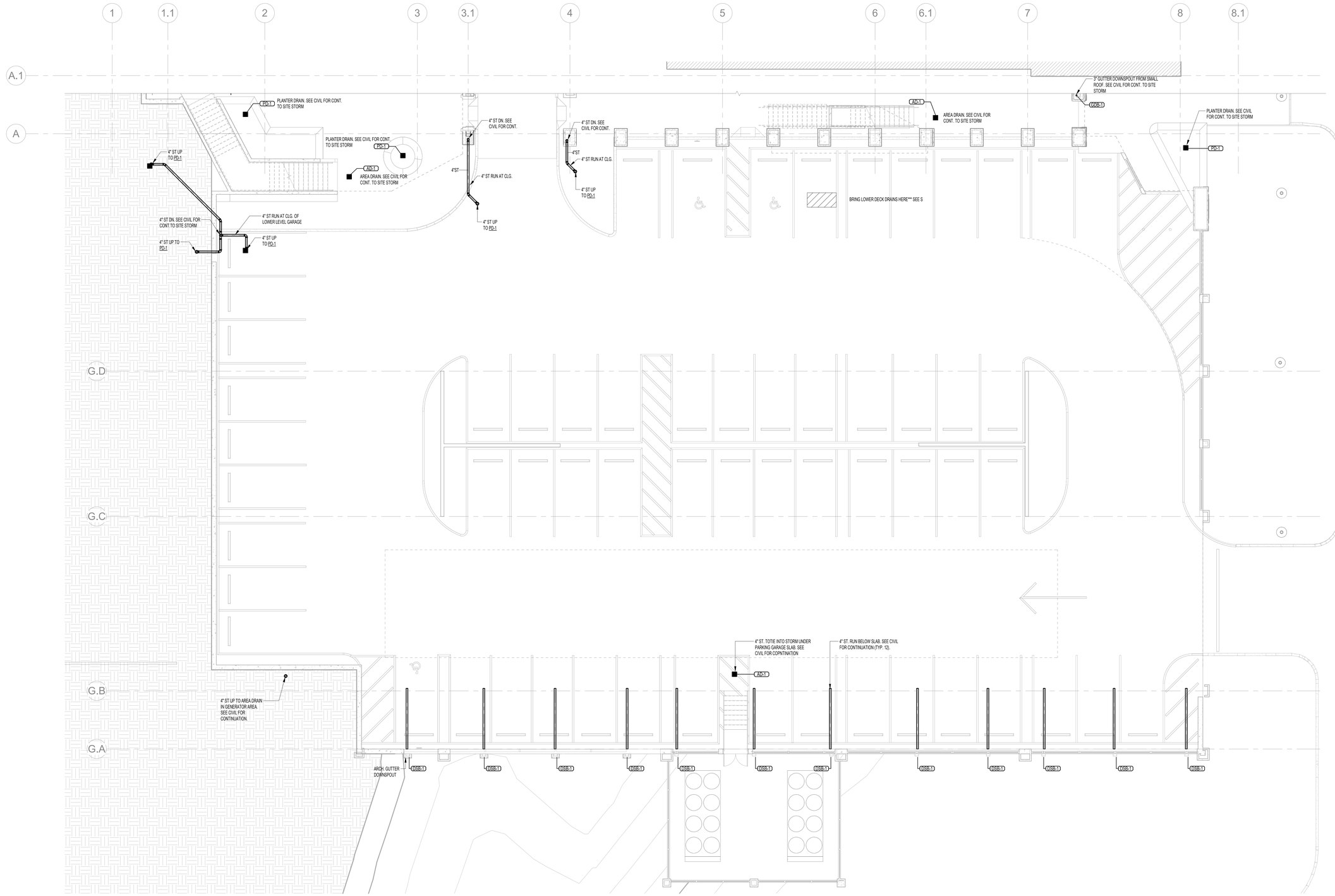
SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
P106

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30% CDS



1 PLUMBING LOWER LEVEL PARKING DECK PLAN
1/8" = 1'-0"

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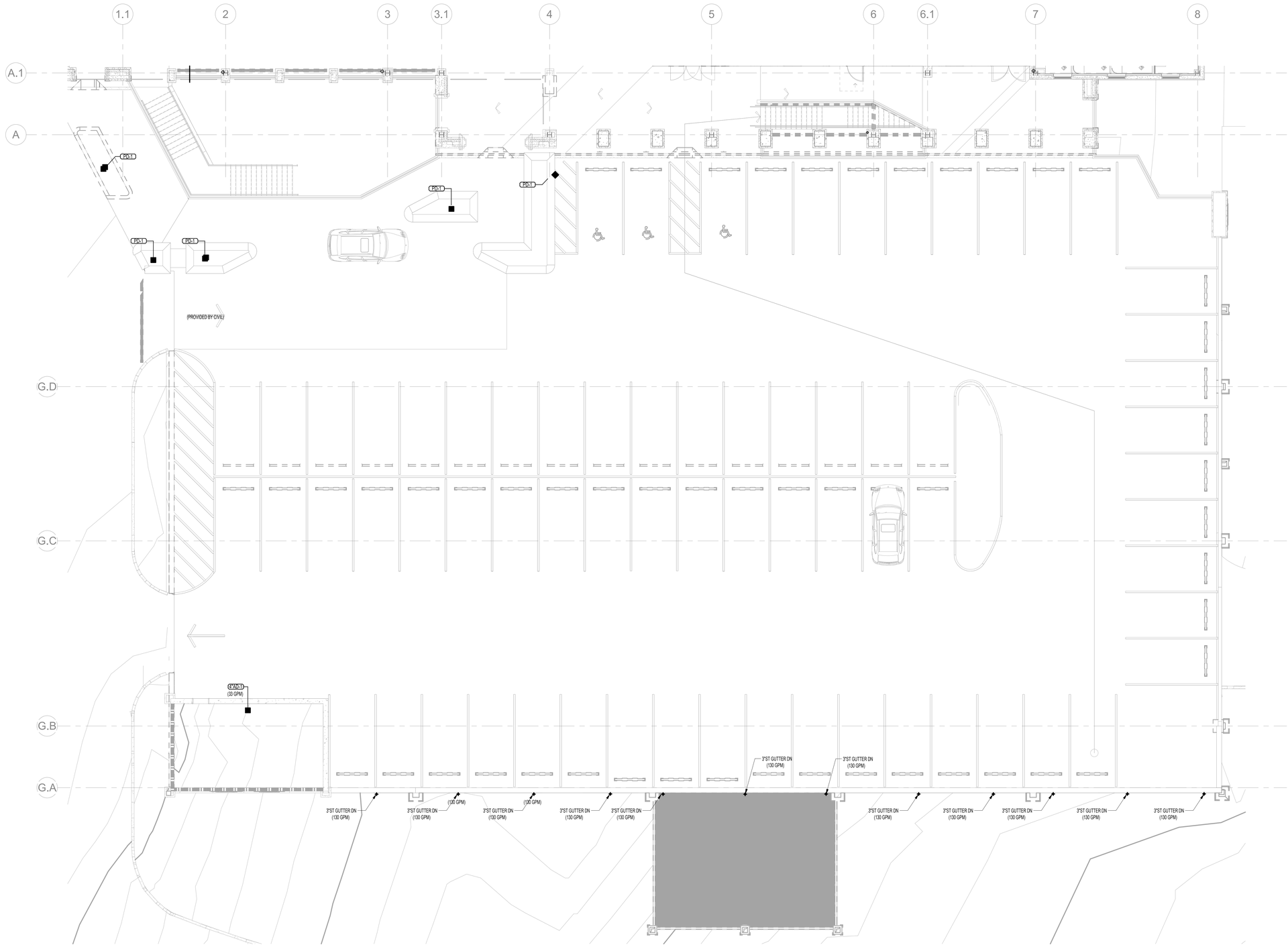
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1 PLUMBING MAIN FLOOR PARKING DECK PLAN
1/8" = 1'-0"

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1 LOWER LEVEL - PLUMBING PRESSURE
P202 1/8" = 1'-0"

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PLUMBING LOWER LEVEL PRESSURE PLAN

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P202

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1 MAIN LEVEL - PLUMBING PRESSURE
P203 1/8" = 1'-0"

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PLUMBING MAIN LEVEL PRESSURE PLAN

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P203

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1 SECOND FLOOR - PLUMBING PRESSURE
P204 1/8" = 1'-0"

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PLUMBING SECOND LEVEL PRESSURE PLAN

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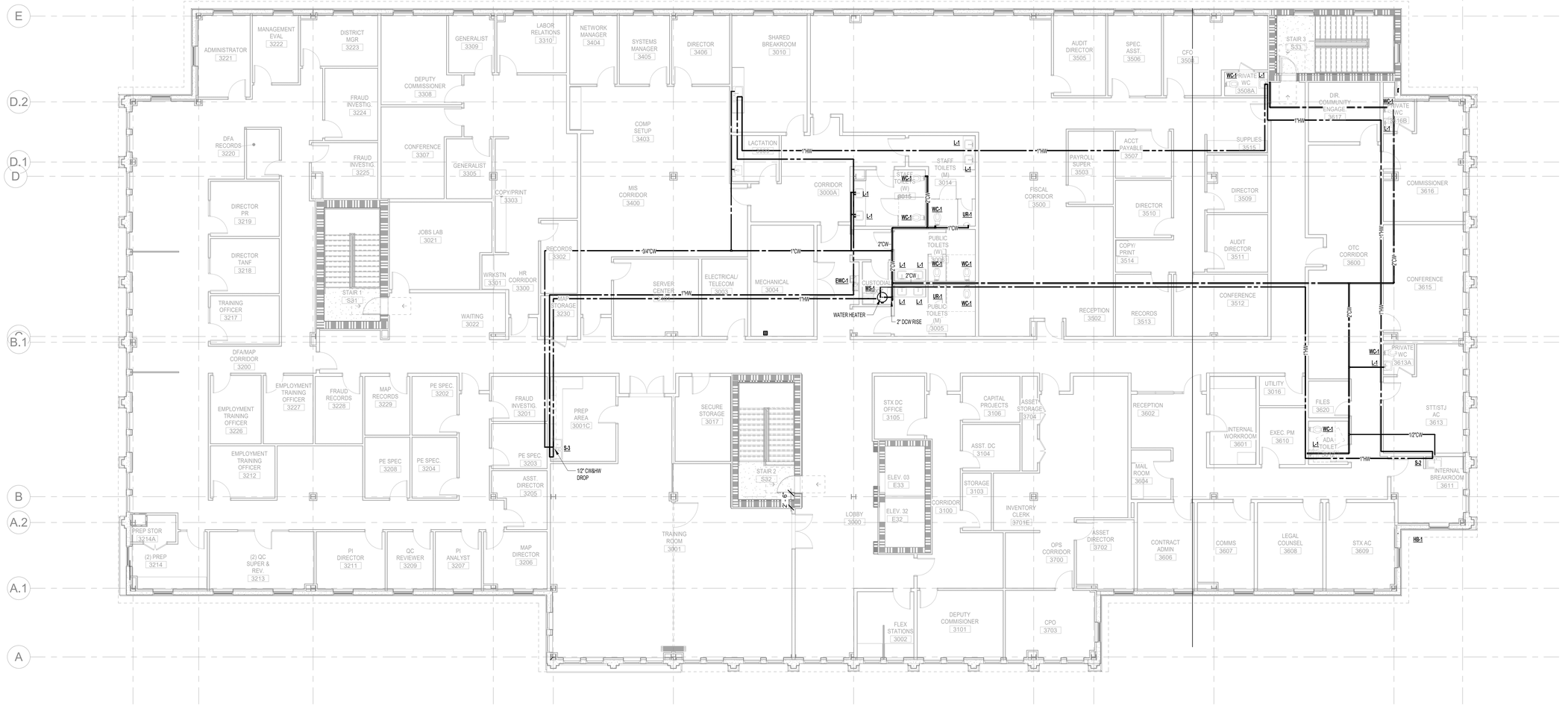
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P204

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1 THIRD LEVEL - PLUMBING PRESSURE
P205 1/8" = 1'-0"

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PLUMBING RISER DIAGRAM - STORM

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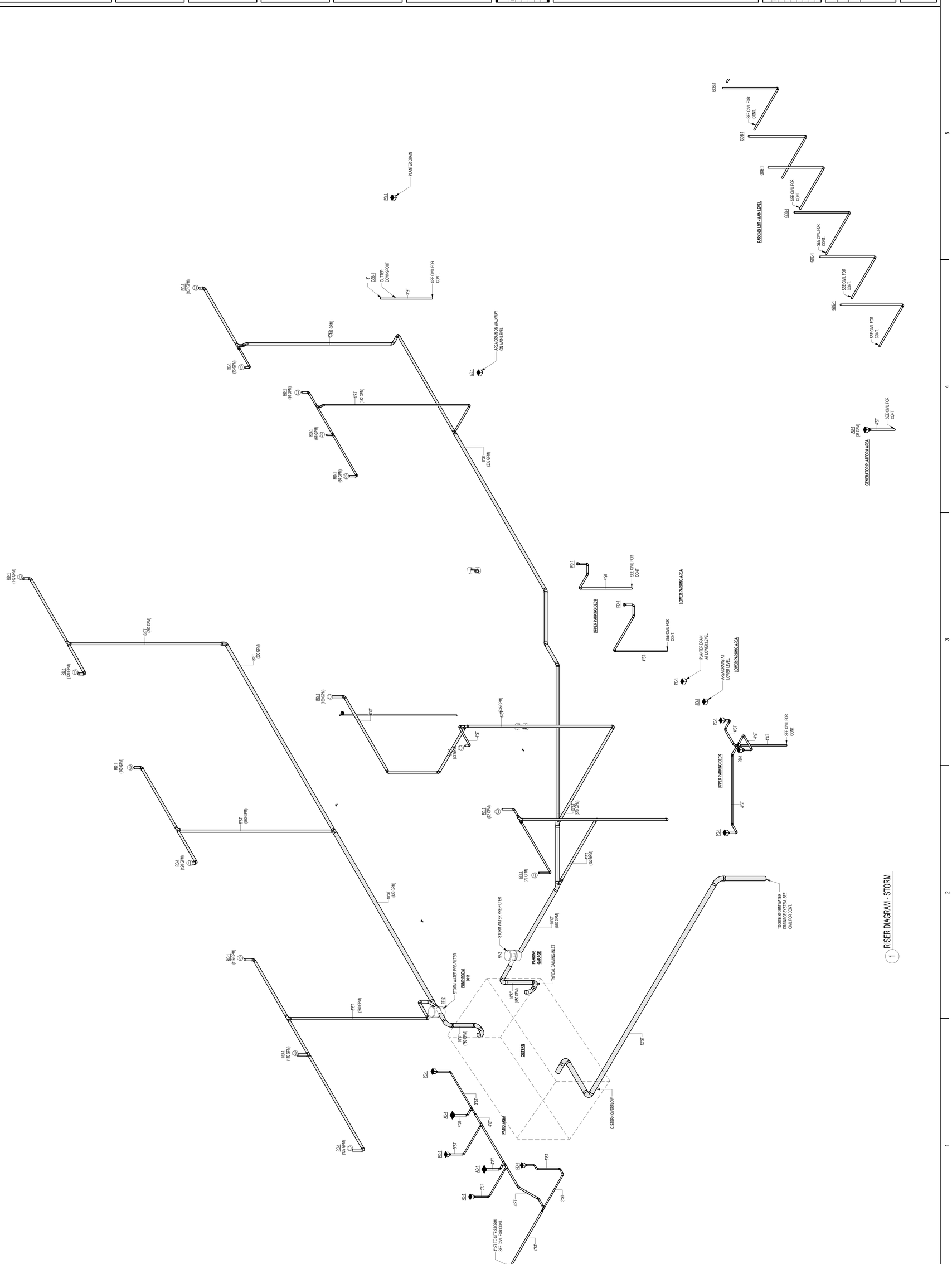
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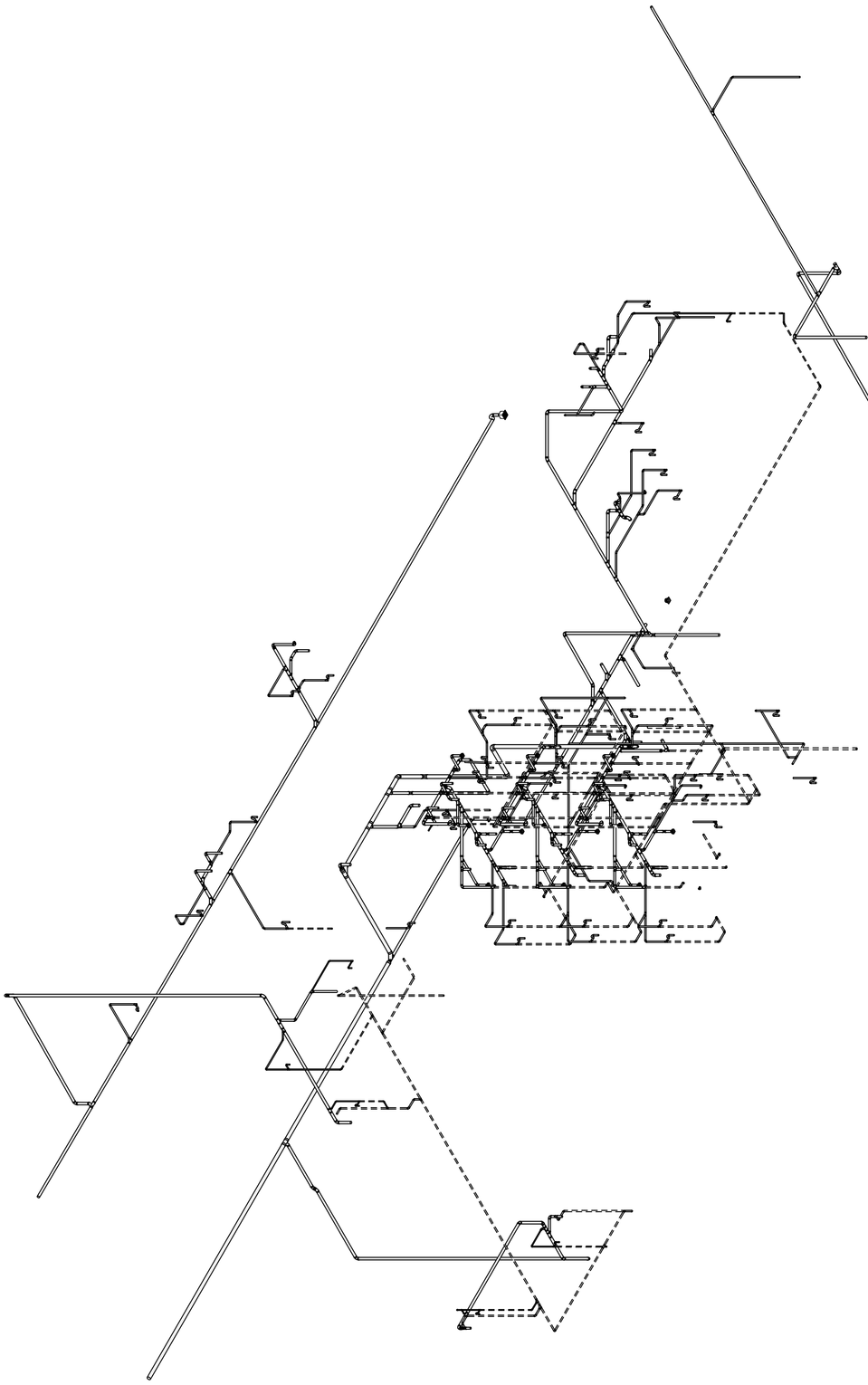
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1 RISER DIAGRAM - STORM

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1 PLUMBING RISER DIAGRAM - SANITARY



SHEET NUMBER P402

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CDPR PROJECT NUMBER 10191B

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PLUMBING RISER DIAGRAM - SANITARY

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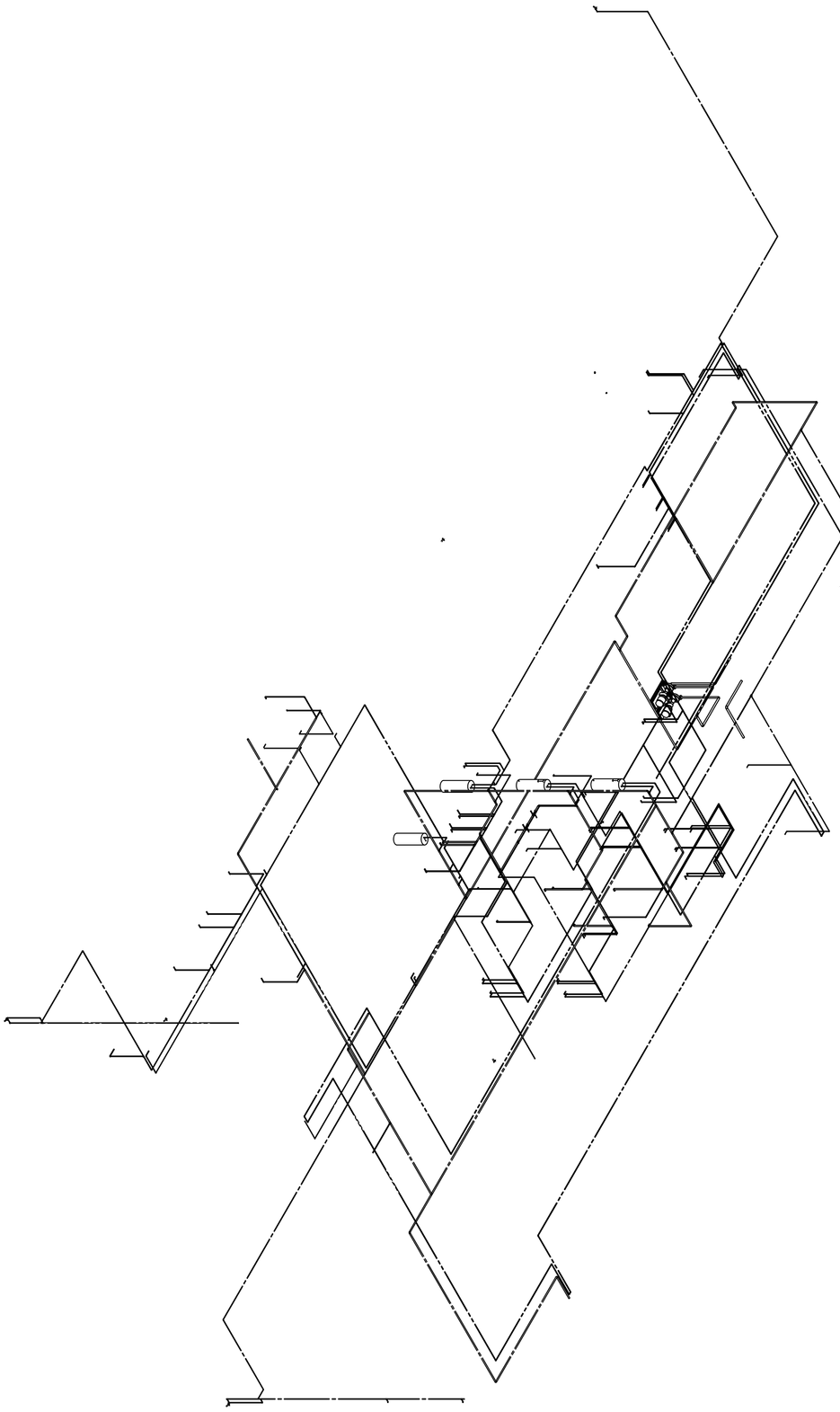
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1 RISER DIAGRAM - WATER



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OPX PROJECT NUMBER:	101918

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PLUMBING RISER DIAGRAM - SERVICE PIPING

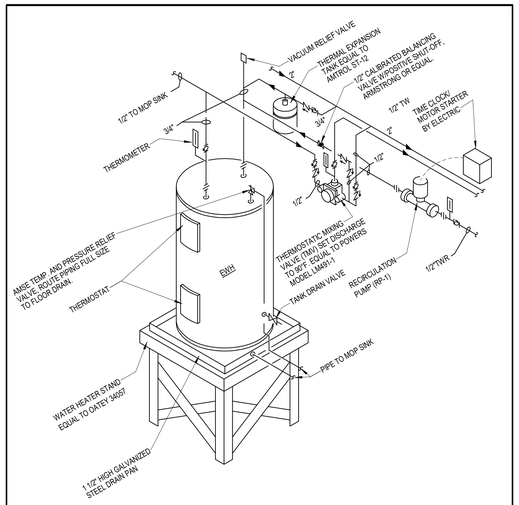
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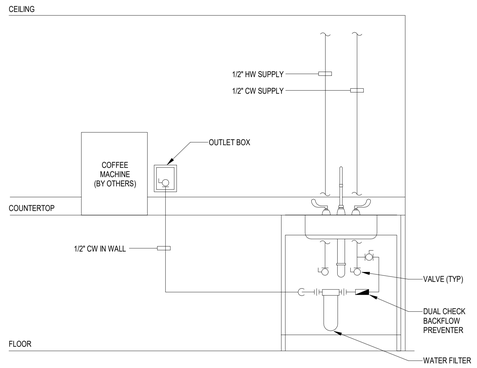
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ELECTRIC WATER HEATER

No Scale

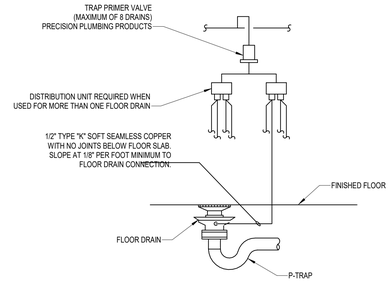
1



SINK AND OUTLET BOX DETAIL

No Scale

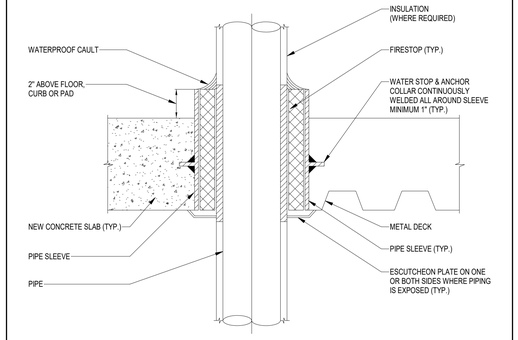
2



TRAP PRIMER

No Scale

3



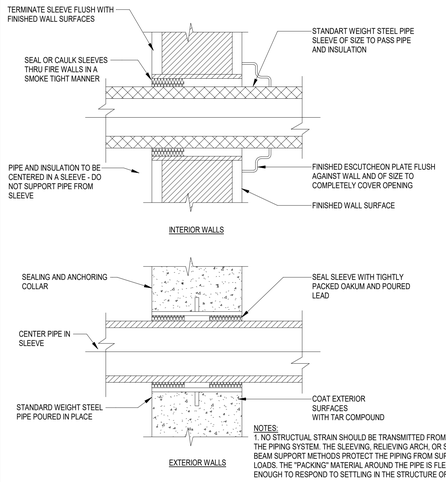
PIPE FLOOR PENETRATION DETAIL

NO SCALE

PIPE FLOOR PENETRATION DETAIL

No Scale

4



NOTES:
1. NO STRUCTUAL STRAIN SHOULD BE TRANSMITTED FROM ANY WALL TO THE PIPING SYSTEM. THE SLEEVING, RELIEVING ARCH, OR STRUCTURAL BEAM SUPPORT METHODS PROTECT THE PIPING FROM SUPERIMPOSED LOADS. THE "PACKING" MATERIAL AROUND THE PIPE IS FLEXIBLE ENOUGH TO RESPOND TO SETTLING IN THE STRUCTURE OR PIPING.

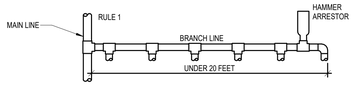
PIPE WALL PENETRATION DETAIL

No Scale

5

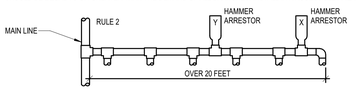
RULE 1: BRANCH LINES OF 20 FEET OR LESS.

THE HAMMER ARRESTOR TO BE PLACED AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES.



RULE 2: BRANCH LINES OVER 20 FEET

AN ADDITIONAL HAMMER ARRESTOR (Y) TO BE PLACED AS SHOWN (BELOW). THE ADDITIONAL UNIT PLACED AT THE MIDPOINT OF THE RUN LONGER THAN 20 FEET. THE SUM OF THE FIXTURE UNIT RATINGS OF (X) AND (Y) COMBINED, SHOULD BE EQUAL TO OR GREATER THAN THE DEMAND OF ALL BRANCHES. INSTALL IN A ACCESSIBLE AREA



SHOCK ARRESTOR SCHEDULE

MARK	FIXTURE UNITS	MANUFACTURER	MODEL	N.P.T.
SA-A	1-11	PRECISION PLUMBING PRODUCTS	SC-500A	1/2"
SA-B	12-32	PRECISION PLUMBING PRODUCTS	SC-750B	3/4"
SA-C	33-60	PRECISION PLUMBING PRODUCTS	SC-1000C	1"
SA-D	61-113	PRECISION PLUMBING PRODUCTS	SC-1250D	1"
SA-E	114-154	PRECISION PLUMBING PRODUCTS	SC-1500E	1"
SA-F	155-330	PRECISION PLUMBING PRODUCTS	SC-2000F	1"

NOTES:
1. PISTON OPERATED, TYPE "K" COPPER BARREL WITH BRASS THREADED ADAPTOR, ALL JOINTS SHALL BE MADE WITH 95-5 LEAD FREE SOLDER. THE PISTON SHALL BE EQUIPPED WITH TWO (2) "O" RINGS TO PROVIDE A PERMANENT MECHANICAL BARRIER BETWEEN FLUID AND PRE-LOAD AIR CHARGE. ARRESTORS MAY BE INSTALLED IN VERTICAL AND HORIZONTAL POSITION. THE ARRESTOR SHALL BE FULLY GUARANTEED FOR ENTIRE SYSTEM LIFE.

SHOCK ARRESTOR

No Scale

6

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

PLUMBING DETAILS

NOT FOR CONSTRUCTION

REVISIONS:

No.	Description	Date

DRAWN BY: Author

CHECKED BY: Checker

DATE: 4/6/2026

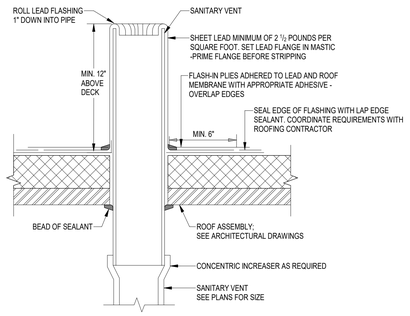
SLA JOB NUMBER
SLA 470-23-49

OOR PROJECT NUMBER
101918

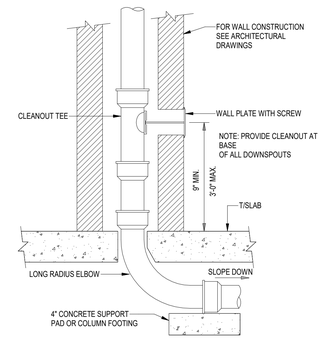
SHEET NUMBER
P501

30% CDS

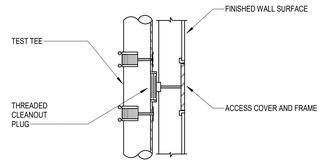
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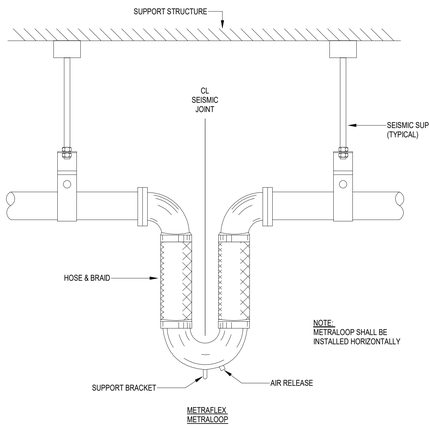
SANITARY VENT THRU ROOF DETAIL — No Scale — **1**



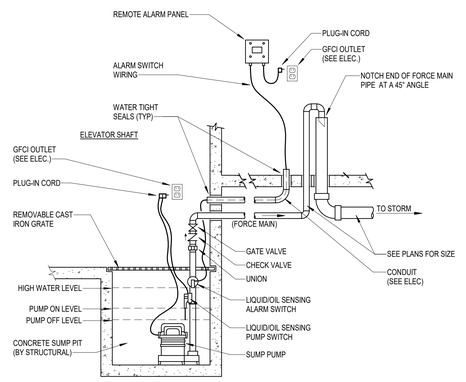
SANITARY / STORM RISER BASE DETAIL — No Scale — **2**



WALL CLEANOUT — No Scale — **3**



EXPANSION JOINT/SEISMIC CONNECTOR DETAIL — No Scale — **4**



SUMP PUMP

PROVIDE SUMP PUMP SYSTEM WITH OIL SMART PUMP SWITCH AND OIL SMART ALARM PANEL WITH EXTRA LONG PIGGYBACK ELECTRICAL POWER CORD. SYSTEM TO INCLUDE SIMPLEX CONTROL PANEL WITH ALARM BEACON LIGHT, ALARM HORN, PUMP RUN LIGHT AND DRY AUXILIARY ALARM CONTACTS. PRESET ON/OFF POINTS DIFFERENTIATE OIL OR WATER TO ALERT MAINTENANCE OF OIL OR WATER DETECTED. PUMP TO BE 4/10 HP(8.5 AMPS) 115/1/60.

BASIS OF DESIGN

ZOELLER PACKAGED SYSTEM: **940-0006**
INCLUDES PUMP (N152), ALARM PANEL (10-1526), & PUMP SWITCH (10-1528).

SUMP PUMP - OIL SENSING - SIMPLEX SYSTEM — No Scale — **5**

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C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

PLUMBING DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/6/2026
SLA JOB NUMBER: SLA 470-23-49
OOR PROJECT NUMBER: 101918

SHEET NUMBER: P502

30% CDS

NOT FOR CONSTRUCTION

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN				COLOR	ROUGH-IN				FIXTURE UNITS			REMARKS
		MANUFACTURER & MODEL NUMBER	FAUCET / FLUSH VALVE	CARRIER / SUPPORT	TRIM		CW	HW	SAN	VENT	CW	HW	SAN	
WC1	WATER CLOSET	AMERICAN STANDARD - MADERA # 3043.001	SLOAN - ROYAL # 111-1.6	FLOOR	TOILET SEAT BEMIS # 1055SSC	WHITE	1"	-	4"	2"	5.0	-	6	-
WC2	WATER CLOSET (REAR OUTLET)	AMERICAN STANDARD - PRIOLO # 3695.001	SLOAN - ECOS # 111-1.28-HW	J.R. SMITH - #0688	TOILET SEAT BEMIS # 1055SSC	WHITE	1"	-	4"	2"	5.0	-	6	-
WC3	WATER CLOSET (WALL HUNG)	AMERICAN STANDARD - AFWALL # 2257.101	SLOAN - WES # 111-1.6/1.1	J.R. SMITH - # 0140	TOILET SEAT BEMIS # 1055SSC	WHITE	1"	-	4"	2"	5.0	-	6	-
L1	LAVATORY (WALL HUNG)	AMERICAN STANDARD - LUCERNE # 0356.015	CHICAGO FAUCETS - # 786-E36ABCP	J.R. SMITH - # 0700	-	WHITE	1/2"	1/2"	1 1/2"	1 1/2"	0.8	0.8	1	-
SK1	SINK (DROP-IN)	ELKAY - LUSTERTONE # LRAD221965	CHICAGO FAUCETS - # 786-GN8AE35ABCP	COUNTERTOP	ELKAY - LK99 DRAIN FITTING	STAINLESS STEEL	1/2"	1/2"	1 1/2"	1 1/2"	1.1	1.1	2	-
SK2	SINK (SOLID SURFACE)	SOLID SURFACE WITH INTERGAL SINK (BY OTHERS)	CHICAGO FAUCETS - # 786-E36ABCP	COUNTERTOP	-	STAINLESS STEEL	1/2"	1/2"	1 1/2"	1 1/2"	1.1	1.1	2	-
CS1	CLINICAL SINK (WALL HUNG)	AMERICAN STANDARD - # 9512.999.020	SLOAN - ROYAL # 117-6.5	J.R. SMITH - #0923	CHICAGO FAUCETS - # 814-VBCP	WHITE	1"	-	4"	2"	5.0	2.3	6	-
CS2	CLINICAL SINK	AMERICAN STANDARD - # 9504.999.020	SLOAN - ROYAL # 117-6.5	FLOOR	CHICAGO FAUCETS - # 814-VBCP	WHITE	1"	-	4"	2"	5.0	2.3	6	PROVIDE PEDESTAL BASE AND RIM GUARD.
EW1	EYE WASH	GUARDIAN - # G5022BP	GUARDIAN - # G6020 THERMOSTATIC MIXING VALVE	-	-	POLISHED CHROME	1/2"	1/2"	-	-	-	-	-	PROVIDE THERMOSTATIC MIXING VALVE CONFORMING WITH ANSI Z358.1 REQUIREMENTS
EWC1	ELECTRIC WATER COOLER	ELKAY - # LZWS-LRPBM28K	-	-	-	STAINLESS	1/2"	-	-	-	0.25	-	-	-
MR1	MOP RECEPTOR	FIAT - # TSBC1612	CHICAGO FAUCETS - # 897-CCP	FLOOR	S.S. WALL GUARD	TERRAZZO	1/2"	1/2"	3"	2"	2.3	2.3	3	PROVIDE FIAT HANGER # 889CC / HOSE W/BRACKET # 832AA

NOTES:
1. SUPPLY MCGUIRE STOPS, P-TRAP, GRID & TAILPIECE WITH PRO-WRAP AS REQUIRED.
2. MOUNT ALL FIXTURES IN CONFORMANCE WITH ANSI & ADA REQUIREMENTS.
3. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN				COLOR	ROUGH-IN				FIXTURE UNITS			REMARKS
		MANUFACTURER & MODEL NUMBER	FAUCET / FLUSH VALVE	CARRIER / SUPPORT	TRIM		CW	HW	SAN	VENT	CW	HW	SAN	
WC1	WATER CLOSET	AMERICAN STANDARD - MADERA # 3043.001	SLOAN - ROYAL # 111-1.6	FLOOR	TOILET SEAT BEMIS # 1055SSC	WHITE	1"	-	4"	2"	5.0	-	6	-
WC2	WATER CLOSET (REAR OUTLET)	AMERICAN STANDARD - PRIOLO # 3695.001	SLOAN - ECOS # 111-1.28-HW	J.R. SMITH - #0688	TOILET SEAT BEMIS # 1055SSC	WHITE	1"	-	4"	2"	5.0	-	6	-
WC3	WATER CLOSET (WALL HUNG)	AMERICAN STANDARD - AFWALL # 2257.101	SLOAN - WES # 111-1.6/1.1	J.R. SMITH - # 0140	TOILET SEAT BEMIS # 1055SSC	WHITE	1"	-	4"	2"	5.0	-	6	-
L1	LAVATORY (WALL HUNG)	AMERICAN STANDARD - LUCERNE # 0356.015	CHICAGO FAUCETS - # 786-E36ABCP	J.R. SMITH - # 0700	-	WHITE	1/2"	1/2"	1 1/2"	1 1/2"	0.8	0.8	1	-
SK1	SINK (DROP-IN)	ELKAY - LUSTERTONE # LRAD221965	CHICAGO FAUCETS - # 786-GN8AE35ABCP	COUNTERTOP	ELKAY - LK99 DRAIN FITTING	STAINLESS STEEL	1/2"	1/2"	1 1/2"	1 1/2"	1.1	1.1	2	-
SK2	SINK (SOLID SURFACE)	SOLID SURFACE WITH INTERGAL SINK (BY OTHERS)	CHICAGO FAUCETS - # 786-E36ABCP	COUNTERTOP	-	STAINLESS STEEL	1/2"	1/2"	1 1/2"	1 1/2"	1.1	1.1	2	-
CS1	CLINICAL SINK (WALL HUNG)	AMERICAN STANDARD - # 9512.999.020	SLOAN - ROYAL # 117-6.5	J.R. SMITH - #0923	CHICAGO FAUCETS - # 814-VBCP	WHITE	1"	-	4"	2"	5.0	2.3	6	-
CS2	CLINICAL SINK	AMERICAN STANDARD - # 9504.999.020	SLOAN - ROYAL # 117-6.5	FLOOR	CHICAGO FAUCETS - # 814-VBCP	WHITE	1"	-	4"	2"	5.0	2.3	6	PROVIDE PEDESTAL BASE AND RIM GUARD.
EW1	EYE WASH	GUARDIAN - # G5022BP	GUARDIAN - # G6020 THERMOSTATIC MIXING VALVE	-	-	POLISHED CHROME	1/2"	1/2"	-	-	-	-	-	PROVIDE THERMOSTATIC MIXING VALVE CONFORMING WITH ANSI Z358.1 REQUIREMENTS
EWC1	ELECTRIC WATER COOLER	ELKAY - # LZWS-LRPBM28K	-	-	-	STAINLESS	1/2"	-	-	-	0.25	-	-	-
MR1	MOP RECEPTOR	FIAT - # TSBC1612	CHICAGO FAUCETS - # 897-CCP	FLOOR	S.S. WALL GUARD	TERRAZZO	1/2"	1/2"	3"	2"	2.3	2.3	3	PROVIDE FIAT HANGER # 889CC / HOSE W/BRACKET # 832AA

NOTES:
1. SUPPLY MCGUIRE STOPS, P-TRAP, GRID & TAILPIECE WITH PRO-WRAP AS REQUIRED.
2. MOUNT ALL FIXTURES IN CONFORMANCE WITH ANSI & ADA REQUIREMENTS.
3. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.

PLUMBING DRAINAGE SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	TYPE	STRAINER	RECEPTOR	REMARKS
		MANUFACTURER & MODEL NUMBER				
FD-1	FLOOR DRAIN - TLT RMS	J.R. SMITH - # 2005Y	LIGHT DUTY FLOOR DRAIN WITH 5" ROUND STRAINER	NICKEL BRONZE	DUCO CAST IRON	OUTLET SIZE SHALL BE THE SAME AS PIPE SIZE INDICATED ON PLANS & RISERS INSTALL STRAINER FLUSH WITH FLOOR.
FD-2	FLOOR DRAIN - MECH RMS	J.R. SMITH - # 3101Y-12	ACID RESISTANT COATED FLOOR DRAIN WITH 8 1/2" SQUARE TOP & 1/2 GRATE	NICKEL BRONZE	ACID RESISTANT COATED CAST IRON	OUTLET SIZE SHALL BE THE SAME AS PIPE SIZE INDICATED ON PLANS & RISERS INSTALL STRAINER FLUSH WITH FLOOR.
RD-1	PRIMARY ROOF DRAIN	J.R. SMITH - # 1800Y-CID	PRIMARY ROOF DRAIN AND OVERFLOW DRAIN	CAST IRON DOME	DUCO CAST IRON	OUTLET SIZE SHALL BE THE SAME AS PIPE SIZE INDICATED ON PLANS
RD-2	OVERFLOW ROOF DRAIN	J.R. SMITH - # 1800Y-CID	PRIMARY ROOF DRAIN AND OVERFLOW DRAIN	CAST IRON DOME	DUCO CAST IRON	OUTLET SIZE SHALL BE THE SAME AS PIPE SIZE INDICATED ON PLANS

PLUMBING SPECIALTY SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	TYPE	MATERIAL	REMARKS
		MANUFACTURER & MODEL NUMBER			
BFP	BACKFLOW PREVENTER	WATTS - # LF7R	DUAL CHECK VALVE	BRASS BODY (LEAD FREE)	REFER TO PLANS FOR SIZE.
TP	ELECTRONIC TRAP PRIMER VALVE	PRECISION PLUMBING PRODUCTS # SMP-500	-	BRASS BODY	-
MV	THERMOSTATIC MIXING VALVE	POWERS - # LFG480	DOMESTIC WATER MIXING VALVE	LEAD-FREE BRASS	-
OB	OUTLET BOX	SIOUX CHIEF - # 696-G1000MF	ICE MAKER OUTLET BOX	ABS FRAME, NO-LEAD BRASS VALVE BODY	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
WF	WATER FILTER	CULLIGAN - # PREFERRED SERIES 350	MAX CONTAMINATE CHEMICAL REDUCTION DRINKING WATER SYSTEM	-	-
HB	HOSE BIBB	WATTS - # HY-440	LOOSE KEY, ANTI-SIPHON, NARROW WALL HYDRANT	POLISHED CHROME	-
WH	WALL HYDRANT (EXTERIOR)	WATTS - # HY-725	NON-FREEZE WALL HYDRANT (RECESSED)	NICKEL BRONZE	-
DS	DOWNSPOUT NOZZLE	JR SMITH - # 1770Y	-	CAST BRONZE	-
FCO	FLOOR CLEANOUT	JR SMITH - # 4020	-	DUCO CAST IRON WITH NICKLE BRONZE TOP	-

MOUNT ALL DEVICES IN CONFORMANCE WITH ANSI & ADA REQUIREMENTS

ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	MANUFACTURER & MODEL NUMBER	SYSTEM DESIGN CRITERIA			ELECTRICAL			REMARKS
			STORAGE (GAL)	RECOVERY (GPH)	TEMP RISE (DEG F)	KW	VOLTAGE	AMPS	
EWH1	-	-	-	-	100	-	-	-	PROVIDE AMTROL - # ST-5-C THERMAL EXPANSION TANK

NOTES: 1. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS

NOTES:

1. WATER CLOSET HARDWARE:

   TOILET SEAT - BEMIS No. 1655SS. EXTRA HEAVY SOLID PLASTIC WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE, OPEN FRONT WITHOUT COVER.
   FIXTURE CARRIER - WATTS SCA-102-LR, EXTRA-HEAVY DUTY (1,000 lbs) BARIATRIC CARRIER COMPLIANT WITH ASME A112.6.1M, SINGLE VERTICAL THIN WALL WATER CLOSET CARRIER WITH EPOXY COATED CAST IRON FITTING, NO HUB WASTE (3"), AND VENT (2") CONNECTIONS, EPOXY COATED CAST IRON PATENTED COMPRESSION SEAL FACE PLATE ASSEMBLY, EPOXY COATED CAST IRON FOOT SUPPORTS ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, ADJUSTABLE ABS NIPPLE WITH INTEGRAL TEST CAP AND NEOPRANE BOWL GASKET, PLATED HARDWARE AND CHROME CAP NUTS.

2. URINAL HARDWARE:

   FIXTURE CARRIER - WATTS No. CA-321, FULLY ADJUSTABLE URINAL CARRIER WITH HEAVY GAUGE STEEL OFFSET UPRIGHTS, ADJUSTED TO ACCESSIBLE HEIGHT.

3. LAVATORY HARDWARE:

   STRAINER/TRAP - McGUIRE No. 155A/8902. CHROME PLATED STRAINER, CAST GRID STRAINER WITH 1-1/4" TAILPIECE, PLATED 17 GAUGE 1-1/4" X 1-1/2" BRASS P-TRAP WITH CLEANOUT. (ADA DEPTH SINKS SHALL HAVE OFFSET TAILPIECES McGUIRE No. 155WC/8902).
   SUPPLIES - McGUIRE No. 2165CC, 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS.
   INSULATION KIT - EXPOSED SUPPLIES AND TRAPS ARE TO BE PROTECTED WITH INSULATION KITS EQUAL TO PLUMBEREX No. 4333.
   FIXTURE CARRIER - WATTS No. WCA-411, CONCEALED ARMS FLOOR MOUNTED CARRIER COATED STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, STEEL SLEEVES, ALIGNMENT TRUSS AND FASTENERS.

4. SINK HARDWARE:

   TRAP - McGUIRE No. 8912, CHROME PLATED 17 GAUGE 1-1/2" X 1-1/2" BRASS P-TRAP WITH CLEANOUT. (ADA DEPTH SINKS SHALL HAVE OFFSET TAILPIECES McGUIRE No. 155WC/8902).
   SUPPLIES - McGUIRE No. 2165CC, 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS.

5. MOP SINK HARDWARE:

   HOSE AND WALL HOOK - STERN WILLIAMS No. T-35, 36" LONG HOSE AND STAINLESS STEEL WALL BRACKET.

6. SHOWER HARDWARE:

   DRAIN - WATTS No. FD-1100-L, EPOXY COATED CAST IRON SHOWER DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE HEAVY DUTY SQUARE HEEL PROOF STAINLESS STEEL STRAINER.

7. ELECTRIC WATER COOLER / DRINKING FOUNTAIN HARDWARE:

   FIXTURE CARRIER - WATTS No. CA-431-1, FLOOR MOUNTED BI-LEVEL WATER COOLER CARRIER WITH HEAVY GAUGE STEEL UPRIGHTS WITH INTEGRAL WELDED FEET, UNIVERSAL STEEL HANGER SUPPORT PLATE, AND PLATED HARDWARE.

1 Schedules
1/2" = 1'-0"

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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS

OFFICE OF DISASTER RECOVERY — U.S. VIRGIN ISLANDS

GOVERNMENT OF THE U.S. VIRGIN ISLANDS — DEPARTMENT OF HUMAN SERVICES

GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS — DEPARTMENT OF HEALTH

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PLUMBING SCHEDULES

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/6/2026

SLA JOB NUMBER
SLA 470-23-49

OCR PROJECT NUMBER
101918

SHEET NUMBER
P601

NOT FOR CONSTRUCTION

30% CDS

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-ROUND DIFFUSER
	-CEILING RETURN
	-CEILING EXHAUST
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
1	-REVISION REFERENCE
1 / M-1	-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON
T	-THERMOSTAT/TEMPERATURE SENSOR
H	-HUMIDISTAT/HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
	-CONNECT TO EXISTING
	-DEMOLISH TO POINT INDICATED
M	-MOTORIZED CONTROL DAMPER
TS	-TEMPERATURE SENSOR
PS	-PRESSURE SENSOR
BD	-BACKDRAFT DAMPER
	-NEUTRAL RELATIVE PRESSURE
	-POSITIVE RELATIVE PRESSURE
	-NEGATIVE RELATIVE PRESSURE
1	-SHEET NOTE CALLOUT
1	-SHEET NOTE CALLOUT
1	-SHEET NOTE CALLOUT
	-CEILING MOUNTED ACCESS DOOR
	-SQUARE THROAT ELBOW W/TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE
	-EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF

SYMBOL	DESCRIPTION
	-FIRE DAMPER (WITH ACCESS PANEL)
	-COMBINATION FIRE & SMOKE DAMPER (WITH ACCESS PANEL)
	-SMOKE DAMPER (WITH ACCESS PANEL)
M	-MOTOR OPERATED CONTROL DAMPER (MOD)
	-MANUAL BALANCING DAMPER
SA-1	-SOUND ATTENUATOR
FM	-AIR FLOW MEASURING STATION
	-DOOR GRILLE
1/2	-UNDERCUT DOOR
	-ACCESS DOORS, VERTICAL OR HORIZONTAL
	-STAINLESS STEEL DUCTWORK
	-FLEXIBLE CONNECTION
12 / 8	-NEW FLAT OVAL DUCT
24x12	-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
24x12	-EXISTING DUCTWORK TO REMAIN
24x12	-EXISTING DUCTWORK TO BE REMOVED
24x12 DOWN / UP W/IN FLOOR	-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING
	-DUCT ELBOW, EXHAUST
	-DUCT ELBOW, NEGATIVE PRESSURE, RETURN
	-DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE
	-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR
	-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN
	-RECTANGULAR DUCT SECTION UP, EXHAUST
	-ROUND DUCT SECTION UP
	-FLAT OVAL DUCT SECTION UP

SYMBOL	DESCRIPTION
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT
	-ELECTRIC DUCT HEATER (W/ PANEL CLEARANCE)
	-HYDRONIC REHEAT COIL
	-INLINE CENTRIFUGAL FAN
	-PACKAGED TERMINAL AIR CONDITIONER (PTAC)
UP / DN	-CHANGE OF ELEVATION
	-FLEXIBLE DUCT
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
10x8 / 8"	-TRANSITION, SQUARE TO ROUND
	-SQUARE THROAT TEE
12x8	-RADIUS TEE
	-RECTANGLE-TO-ROUND TAKE-OFF
	-STANDARD BRANCH TAKE-OFF
	-SPIN-IN TAKE-OFF

HVAC PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
CWS	-CONDENSER WATER SUPPLY
CWR	-CONDENSER WATER RETURN
CHWS	-CHILLED WATER SUPPLY
CHWR	-CHILLED WATER RETURN
CD	-CONDENSATE
CR	-CONDENSATE RETURN
PC	-PUMPED CONDENSATE
HWR	-HOT WATER RETURN
HWS	-HOT WATER SUPPLY
HPS	-HIGH PRESSURE STEAM SUPPLY
MPS	-MEDIUM PRESSURE STEAM SUPPLY
LPS	-LOW PRESSURE STEAM SUPPLY
HPR	-HIGH PRESSURE STEAM RETURN
MPR	-MEDIUM PRESSURE STEAM RETURN
LPR	-LOW PRESSURE STEAM RETURN
RL	-REFRIGERANT LIQUID
RS	-REFRIGERANT SUCTION
	-TEE, OUTLET DOWN
	-TEE, OUTLET UP
D / D	-45° PIPE RISE (R) / DROP (D)
	-PIPE ANCHORS
	-CONCENTRIC REDUCER
	-ECCENTRIC REDUCER

SYMBOL	DESCRIPTION
	-FLOW DIRECTION
	-GATE VALVE
	-BALL VALVE
	-CALIBRATING BALANCING VALVE
	-BUTTERFLY VALVE
	-GAS COCK
	-UNION
	-STRAINER
	-CONTROL VALVE
	-SOLENOID VALVE
	-PSI REG.
	-CHECK VALVE
	-FLOW SWITCH
	-SLOPE DIRECTION (DOWN)
	-FLEX CONNECTION
	-O.S.&Y. GATE VALVE
	-STEAM TRAP
	-THREE-WAY CONTROL VALVE
	-THERMOMETER

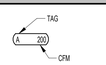
SYMBOL	DESCRIPTION
EQUIP.	- P-TRAP
	-TWO-WAY CHECK VALVE
MV	-MANUAL VENT
	-PRESSURE GAUGE
	-RELIEF VALVE
FM	-FLOW METER
M	-WATER METER
	-INLINE PUMP
	-INLINE PUMP
	-VALVE ON RISER
E	-CAP
	-CONNECTION, BOTTOM
	-CONNECTION, TOP
	-COUPLING
	-ELBOW, 90°
	-ELBOW, 45°
	-ELBOW, TURNED DOWN
	-ELBOW, TURNED UP

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFD	-ADJUSTABLE FREQUENCY DRIVE	LD	-LINEAR DIFFUSER
AFF	-ABOVE FINISHED FLOOR	MBH	-THOUSAND BTUs PER HOUR
AFR	-ABOVE FINISHED ROOF	MCA	-MINIMUM CIRCUIT AMPS
AHU	-AIR HANDLING UNIT	MOCP	-MAXIMUM OVER CURRENT PROTECTION
AP	-ACCESS PANEL	MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
BOP	-BOTTOM OF PIPE	NC	-NORMALLY CLOSED
BHP	-BRAKE HORSEPOWER	NO	-NORMALLY OPEN
BTU	-BRITISH THERMAL UNIT	NTS	-NOT TO SCALE
CL	-CENTER LINE	OA	-OUTSIDE AIR
CFM	-CFM (CUBIC FEET PER MINUTE)	OAL	-OUTSIDE AIR LOUVER
CD	-CEILING DIFFUSER	PRV	-PRESSURE REDUCING VALVE
CT	-COOLING TOWER	PRS	-PRESSURE REDUCING STATION
CV	-CONSTANT AIR VOLUME	PSI	-POUNDS PER SQUARE INCH
ΔP	-CHANGE IN PRESSURE	PSIG	-PSI GAUGE
ΔT	-CHANGE IN TEMPERATURE	PTAC	-PACKAGED TERMINAL AIR CONDITIONER
CFM	-CUBIC FEET PER MINUTE	PVC	-POLYVINYL CHLORIDE PIPE
CU	-CONDENSING UNIT	RA	-RETURN AIR
DDC	-DIRECT DIGITAL CONTROLS	RHC	-REHEAT COIL
DN	-DOWN	RHP	-ROOFTOP HEAT PUMP
EAT	-ENTERING AIR TEMPERATURE	RPM	-REVOLUTIONS PER MINUTE
ESP	-EXTERNAL STATIC PRESSURE	RS/L	-REFRIGERANT SUCTION & LIQUID LINES
EWT	-ENTERING WATER TEMPERATURE	RTU	-ROOFTOP AIR HANDLING UNIT
FCU	-FAN COIL UNIT	SA	-SUPPLY AIR
FD	-FIRE DAMPER	SP	-STATIC PRESSURE
FF	-FINAL FILTERS	TSP	-TOTAL STATIC PRESSURE
FLA	-FULL LOAD AMPS	UNO	-UNLESS NOTED OTHERWISE
FPM	-FEET PER MINUTE	V/PH	-VOLTS/PHASE
GPM	-GALLONS PER MINUTE	VAV	-VARIABLE AIR VOLUME
KW	-KILOWATT	VFD	-VARIABLE FREQUENCY DRIVE
LAT	-LEAVING AIR TEMPERATURE		
LWT	-LEAVING WATER TEMPERATURE		

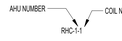
HVAC EQUIPMENT TAGS



-AIR DISTRIBUTION DEVICE



-AIR HANDLING UNIT



-REHEAT COIL

VARIABLE/CONSTANT AIR VOLUME TERMINAL UNITS



APPLICABLE CODES AND STANDARDS

STATE AND NATIONAL CODE REQUIREMENTS: CONFIRM IN STRICT COMPLIANCE TO THE LATEST ENFORCED EDITION OF THE STATE OF FLORIDA DEPARTMENT OF PROFESSIONAL REGULATION, AND THE FOLLOWING CODES:

INTERNATIONAL FIRE CODE, 8TH EDITION (2018)
INTERNATIONAL BUILDING CODE, 8TH EDITION (2018)
INTERNATIONAL PLUMBING CODE, 8TH EDITION (2018)
INTERNATIONAL MECHANICAL CODE, 8TH EDITION (2018)
INTERNATIONAL ENERGY CONSERVATION CODE, 8TH EDITION (2018)

NFPA 70, 2020 EDITION, NATIONAL ELECTRICAL CODE.
NFPA 72, 2019 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE.
NFPA 90A, 2021 EDITION, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
NFPA 90B, 2021 EDITION, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS.
NFPA 101, 2021 EDITION, LIFE SAFETY CODE.

ASHRAE STANDARD 15, 2019 EDITION
ASHRAE STANDARD 34, 2019 EDITION
ASHRAE STANDARD 62.1, 2019 EDITION
SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2020 EDITION.

ASME/ANSI A17.1-2019, SAFETY CODE FOR ELEVATORS AND ESCALATORS.
ASME BOILER & PRESSURE VESSEL CODE, 2019 EDITION
ASME CSD-1, 2021 EDITION

PRODUCTS SHALL BE LISTED BY UNDERWRITERS LABORATORY, OR OTHER INDUSTRY-APPROVED TESTING AGENCY.

HVAC GENERAL NOTES

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
20. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

MECHANICAL DRAWING INDEX

SHEET	DESCRIPTION
M001	MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX
M100	MECHANICAL SITE PLAN
M101	MECHANICAL LOWER FLOOR PLAN
M102	MECHANICAL MAIN FLOOR PLAN
M103	MECHANICAL SECOND FLOOR PLAN
M104	MECHANICAL THIRD FLOOR PLAN
M105	MECHANICAL ROOF PLAN
M601	MECHANICAL DETAILS
M701	MECHANICAL SCHEDULES

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MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX

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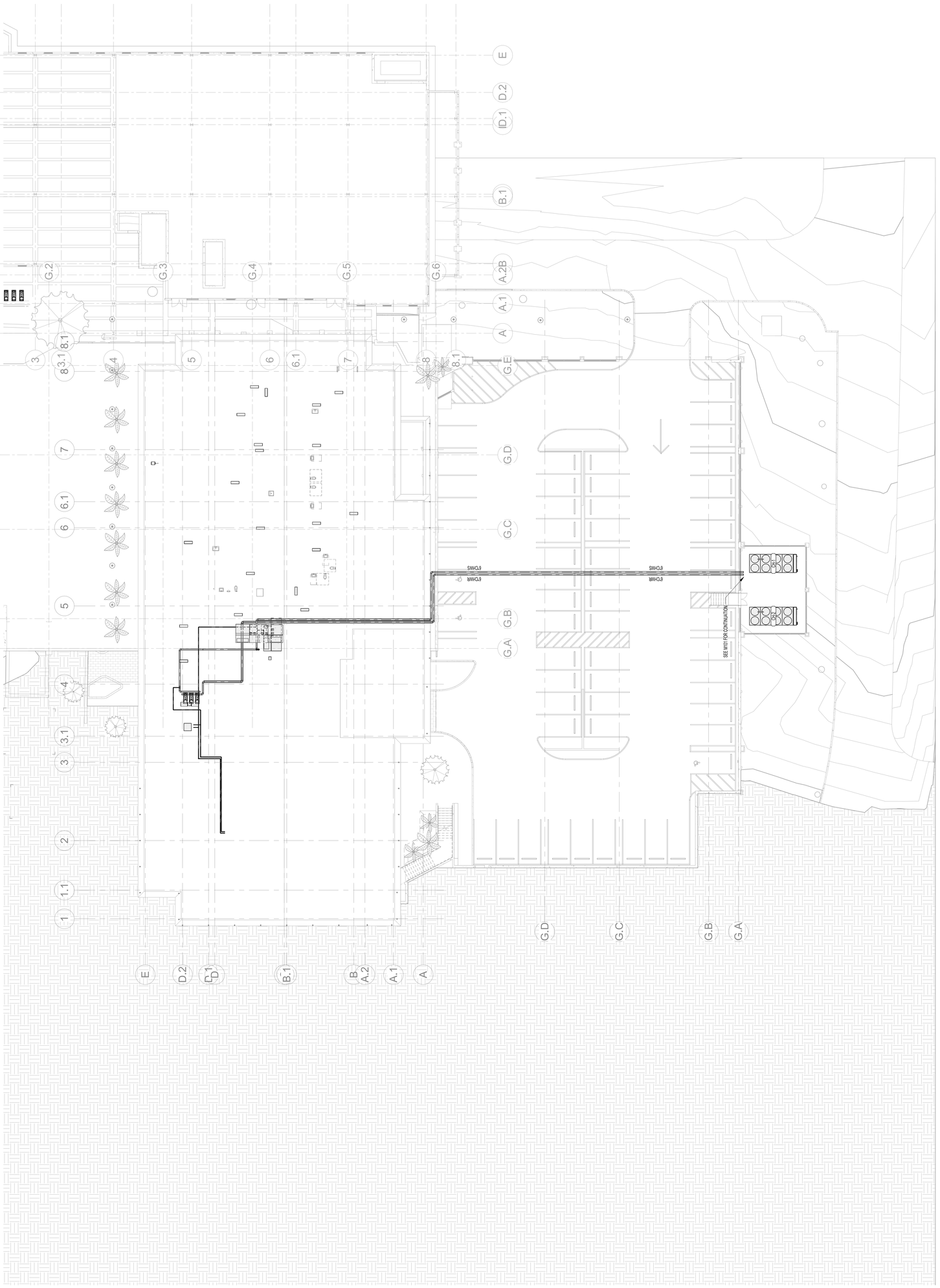
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M001

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1 MAIN LEVEL - DUCTWORK SITE PLAN
1/16" = 1'-0"

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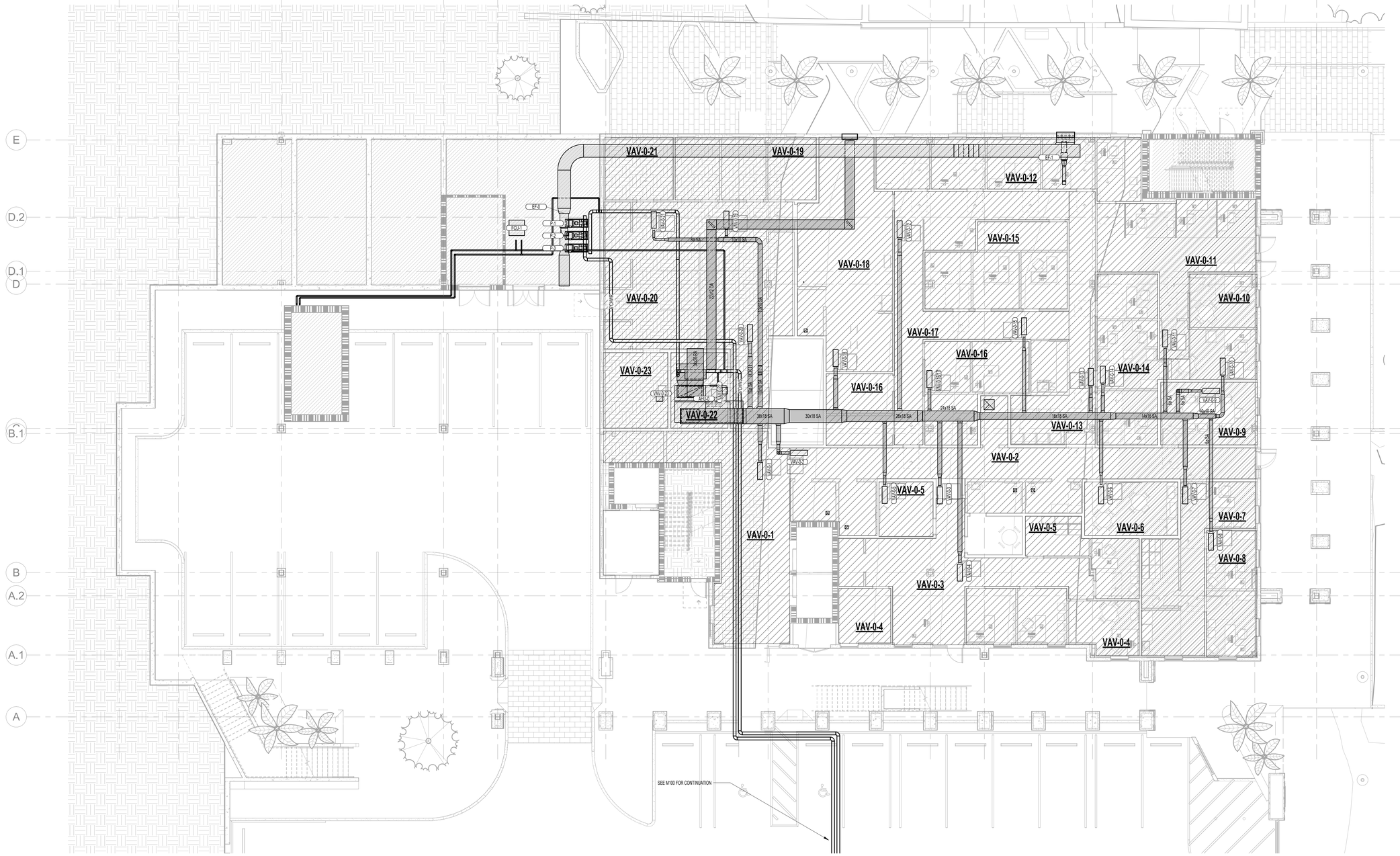
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MECHANICAL SITE PLAN

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OUR PROJECT NUMBER: 101918

SHEET NUMBER: M100



1 LOWER LEVEL - DUCTWORK
M101 1/8" = 1'-0"

NORTH

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MECHANICAL LOWER FLOOR PLAN

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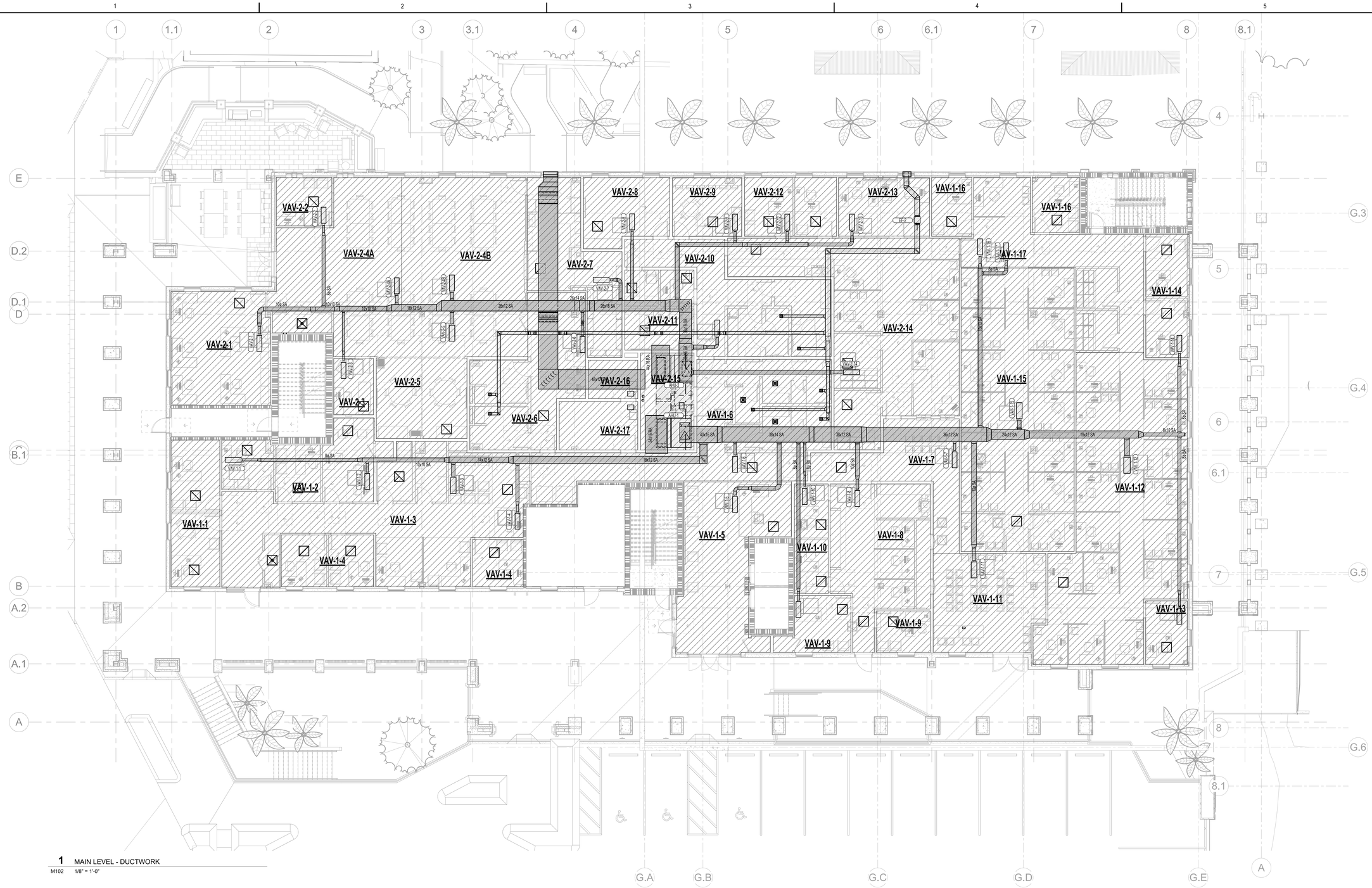
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101918

SHEET NUMBER
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1 MAIN LEVEL - DUCTWORK
M102 1/8" = 1'-0"

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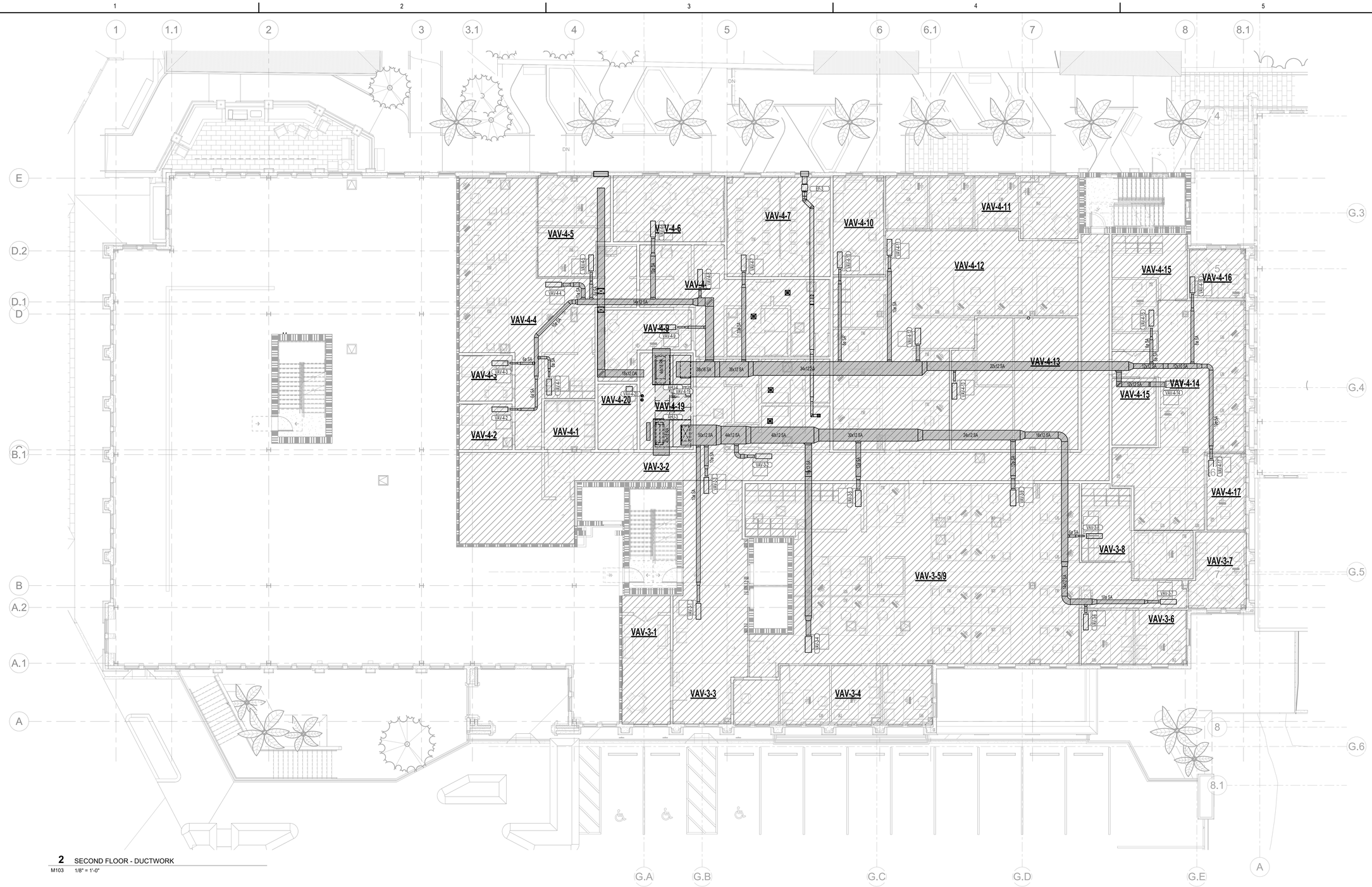
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2 SECOND FLOOR - DUCTWORK
M103 1/8" = 1'-0"

NORTH

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MECHANICAL SECOND FLOOR PLAN

REVISIONS:

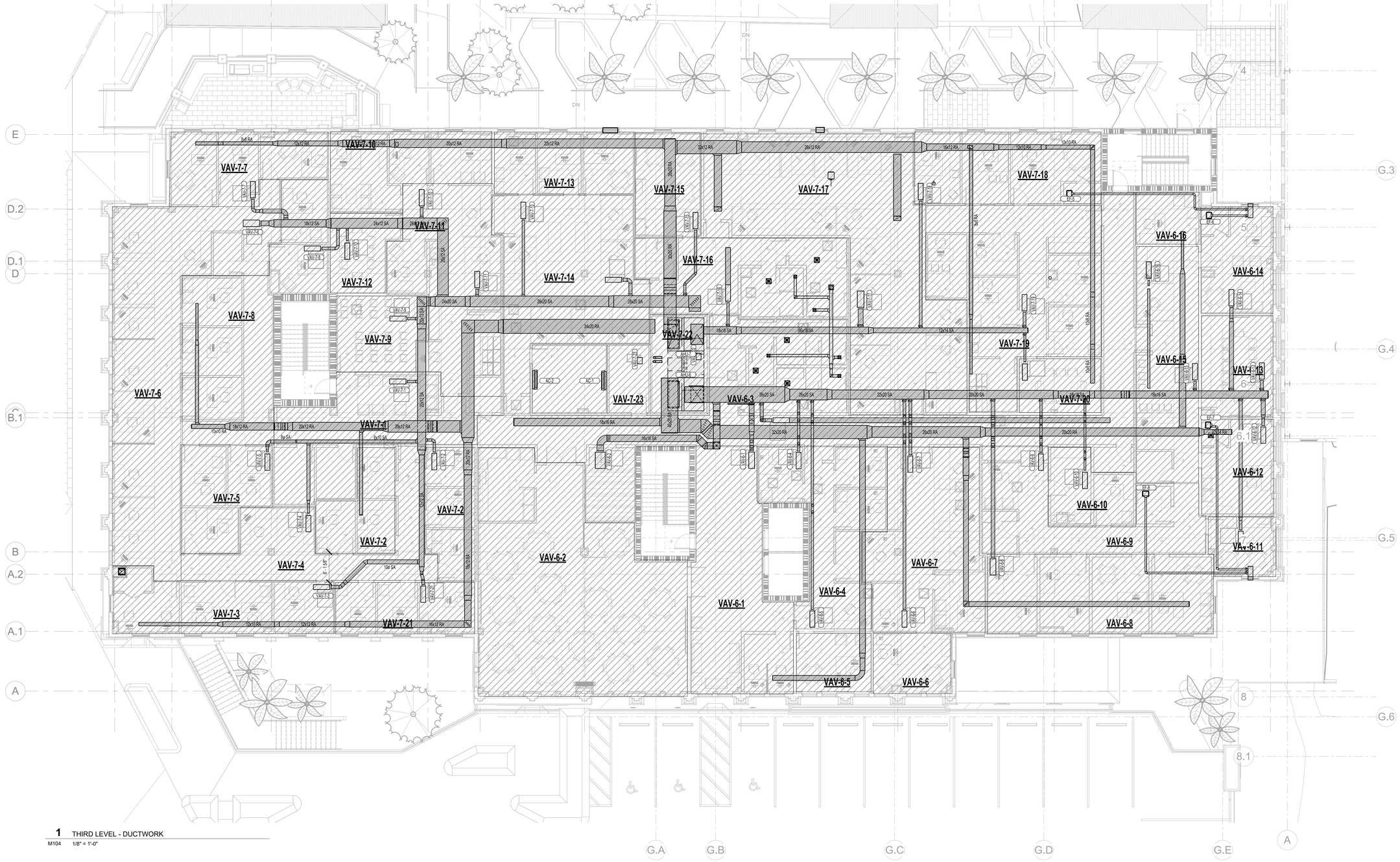
No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
OOR PROJECT NUMBER: 101918

SHEET NUMBER
M103

NOT FOR CONSTRUCTION

30% CDS



1 THIRD LEVEL - DUCTWORK
M104 1/8" = 1'-0"

NORTH

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Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

MECHANICAL THIRD FLOOR PLAN

NOT FOR CONSTRUCTION

30% CDS

REVISIONS:

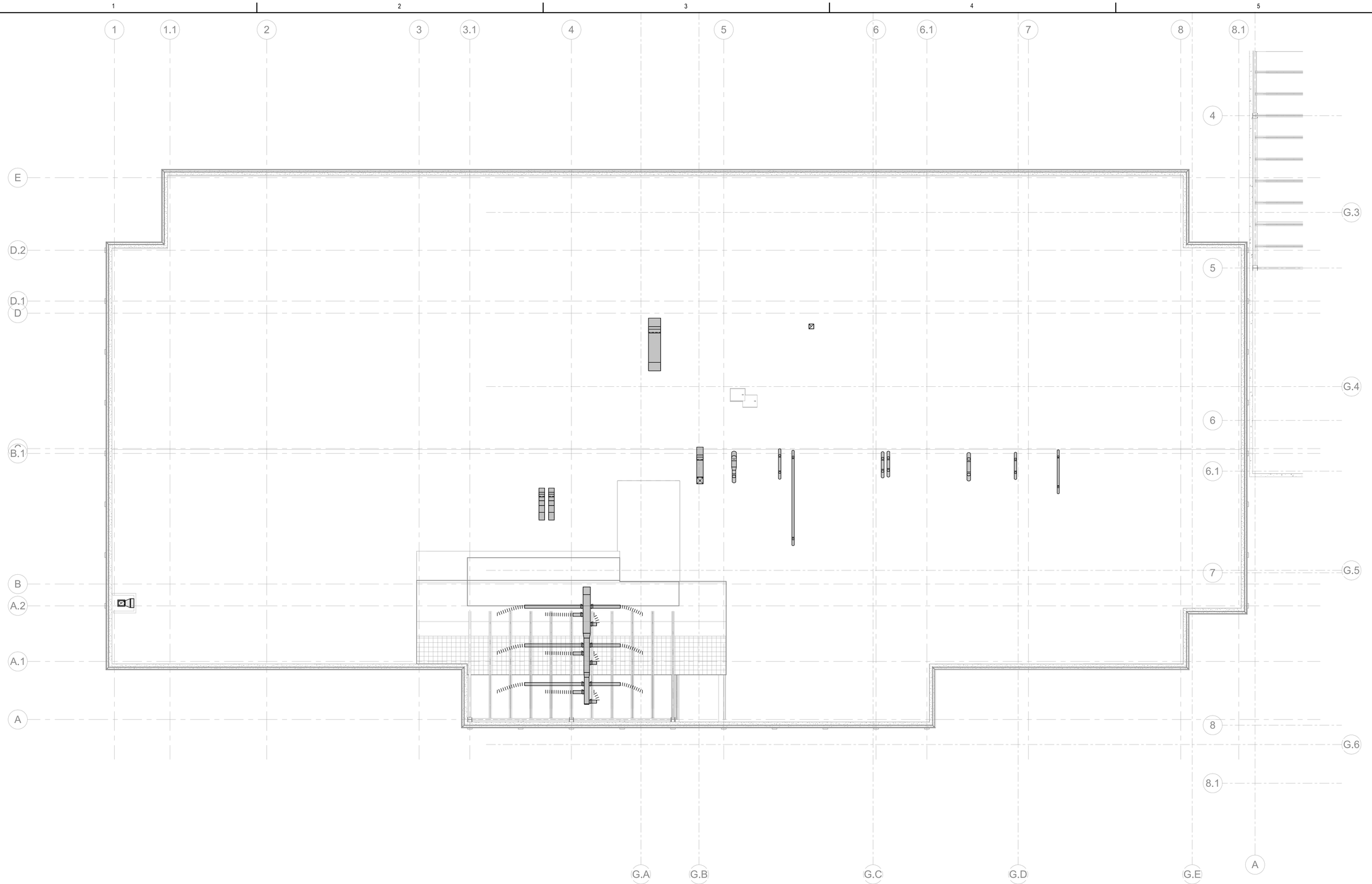
No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

OOR PROJECT NUMBER
101918

SHEET NUMBER
M104



1 FOURTH LEVEL - DUCTWORK

M105 1/8" = 1'-0"

NORTH

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

MECHANICAL ROOF PLAN

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REVISIONS:

No.	Description	Date

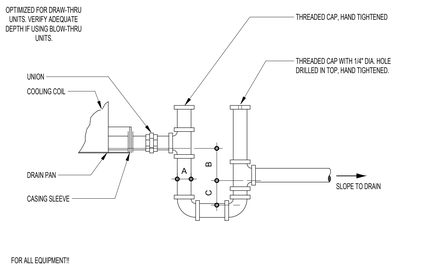
DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

OOR PROJECT NUMBER
101918

SHEET NUMBER
M105

30% CDS

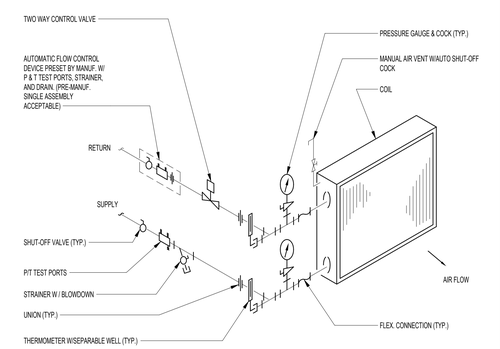


CONDENSATE DRAIN PIPING DIMENSIONS:

A = FULL SIZE OF UNIT DRAIN CONNECTION
B > 1-1/2" TIMES FAN SUCTION STATIC PRESSURE
C > FAN DISCHARGE STATIC PRESSURE PLUS 1/2" INCH

COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE.

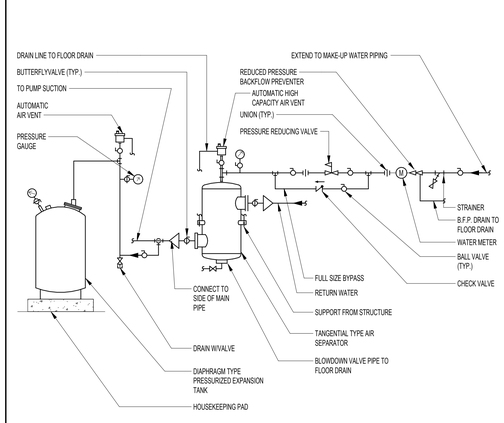
AHU CONDENSATE DRAIN TRAP — 4
No Scale



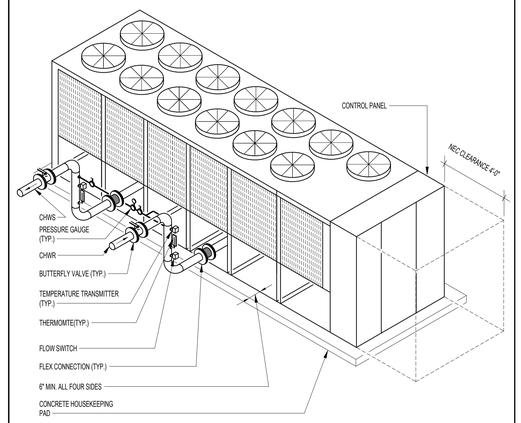
NOTES:

1. PROVIDE (4 x DIA.) OF STRAIGHT PIPE ON BOTH SIDES OF BALANCING VALVE.
2. ALL COMPONENTS FULL LINE SIZE UNLESS NOTED OTHERWISE.
3. LOCATE UNIONS TO ALLOW FOR COIL PULL.

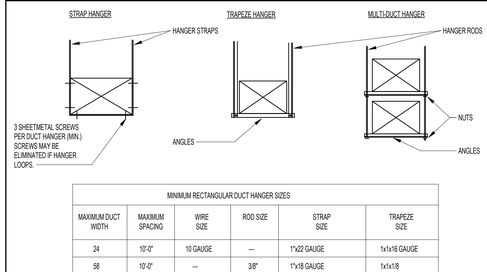
2-WAY COIL PIPING DIAGRAM — 3
No Scale



AIR SEPARATOR/ELIMIN. & EXPANSION TANK PIPING — 2
No Scale



AIR COOLED CHILLER PIPING — 1
No Scale

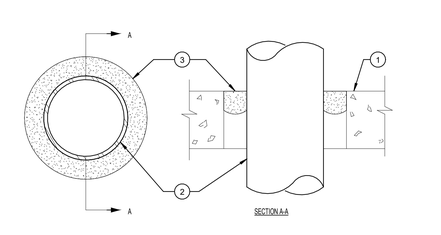


MINIMUM RECTANGULAR DUCT HANGER SIZES					
MAXIMUM DUCT WIDTH	MAXIMUM SPACING	WIRE SIZE	ROD SIZE	STRAP SIZE	TRAPEZE SIZE
24	10'-0"	10 GAUGE	---	1"x22 GAUGE	1x1x16 GAUGE
58	10'-0"	---	3/8"	1"x18 GAUGE	1x1x18
77	10'-0"	---	3/8"	1"x16 GAUGE	1.5x1.5x18
96	10'-0"	---	1/2"	1-1/2"x16 GAUGE	1.5x1.5x14
134	10'-0"	---	1/2"	1-1/2"x16 GAUGE	2.5x2.5x18
154	8'-0"	---	1/2"	1-1/2"x16 GAUGE	2.5x2.5x3/16
155	---	---	---	---	---

NOTES:

1. STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.
2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.
3. WHEN STRAP HANGERS ARE LAP JOINED USE THESE MINIMUM FASTENERS:
   1" x 18, 20, 22 GAUGE — 2 - #10 OR 1-1/4" BOLT
   1" x 16 GAUGE — 2 - 1/4" BOLTS
   1" x 14 GAUGE — 2 - 3/8" BOLTS
4. REFER TO SMACNA HVAC CONSTRUCTION STANDARDS FOR ADDITIONAL INFORMATION.

RECTANGULAR DUCT SUPPORT DETAIL — 8
No Scale



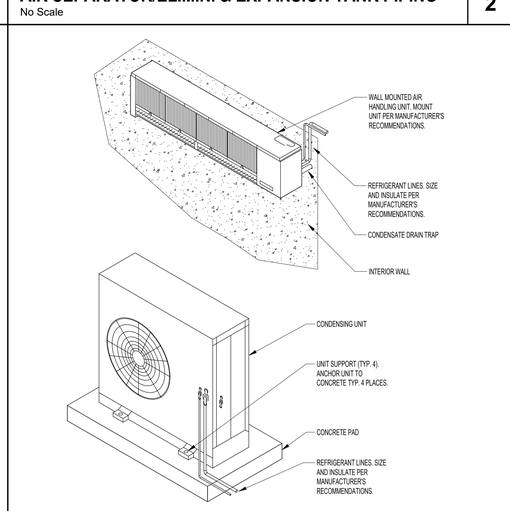
(Ref UL System #C-AJ-1027, 1997)

Notes:

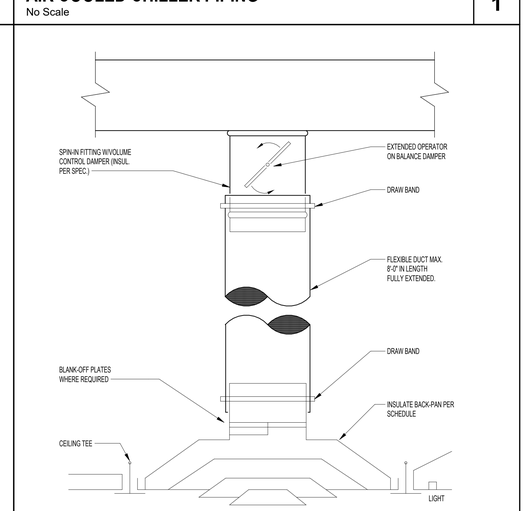
1. Floor or Wall Assembly-Min 4-1/2 in. thick lightweight (100-150 pcf) concrete. Wall assembly may also be constructed of any UL Classified Concrete Blocks*. Max dia.of circular through-opening is 12-1/4 in. *See Concrete Block (Cast) category in fire resistance Directory for names of manufacturers.
2. Steel Pipe or Conduit-Nom 10 in. dia. (or smaller) Schedule 10S (or heavier) steel pipe, nominal 6 in. dia. (or smaller) rigid steel conduit or nom 4 in. dia. (or smaller) steel EMT. Max. one steel pipe per through-opening. Min. annular space between pipe or conduit and edge of through-opening not to exceed 3/4 in. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly.
3. Fill, Void or Cavity Material* Putty-Moldable putty material kneaded by hand and packed tightly into annular space, flush with top surface of floor. In wall assemblies, required putty thickness to be installed symmetrically on both sides of wall. The min. putty thickness and maximum through-opening sizes for the 2 and 3 Hr. Fire-Rated are specified in the following table:

Max. Through-Opening Sizes	Min. Fill Material Thickness	Fire Rating
6-1/4" in.	1/2" in.	2 hr.
12-1/4" in.	1" in.	3 hr.

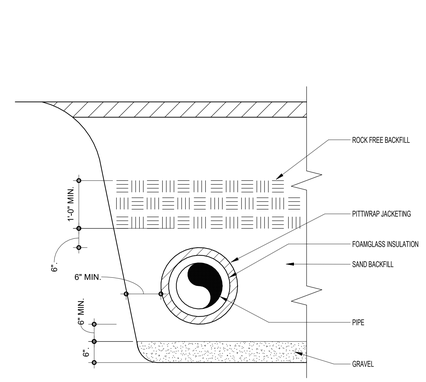
FIRE RATED FLOOR / WALL PENETRATION — 7
No Scale



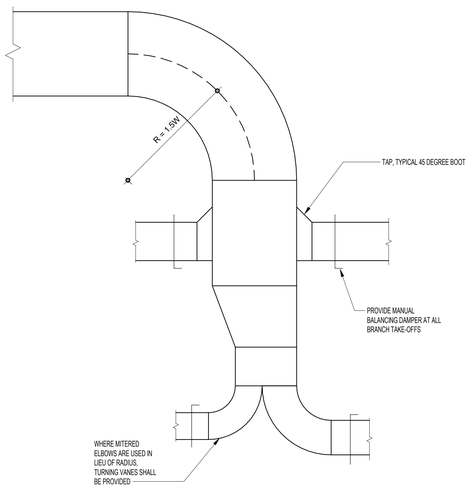
DUCTLESS DX SPLIT SYSTEMS — 6
No Scale



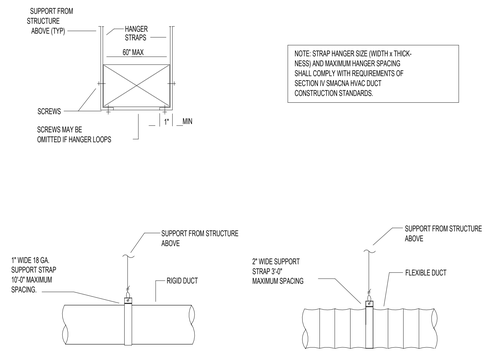
DIFFUSER MOUNTING — 5
No Scale



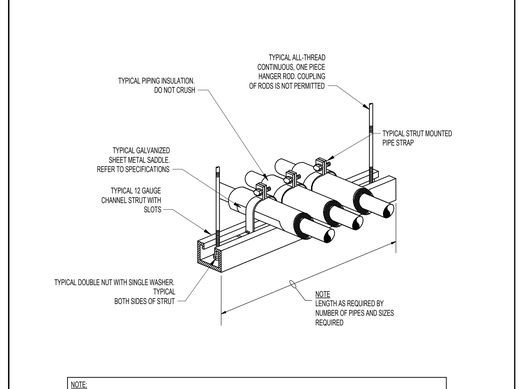
UNDERGROUND PIPING INSTALLATION — 12
No Scale



TYPICAL LOW PRESSURE DUCTWORK — 11
No Scale



TYPICAL DUCT SUPPORT — 10
No Scale



NOTE:

1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR MATERIAL AND SIZES
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIALS

TRAPEZE HANGER — 9
No Scale

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

MECHANICAL DETAILS

REVISIONS:

No.	Description	Date

DRAWN BY: Author
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER: SLA 470-23-49
ODR PROJECT NUMBER: 101918

SHEET NUMBER: M601

NOT FOR CONSTRUCTION

30% CDS

AIR COOLED CHILLER SCHEDULE

MARK	LOCATION NAME	LOCATION NO.	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	EVAPORATOR COOLING HEAT EXCHANGER: COOLING CAP	FLOW: DESIGN	FLOW: MIN	EWT	LWT	PD	AUXILIARY FAN: MOTOR QTY	MOTOR POWER	MOTOR ECM	COMPRESSOR: REFRIGERANT TYPE	REFRIGERANT CHARGE	UNLOAD STEPS	MOTOR QTY	MOTOR RLA	LOW AMBIENT KIT	SUMMER AMBIENT DBT	WINTER AMBIENT DBT	EER	IPLV	NPLV	SOUND PRESS LEVEL	SEACOAST PROT	UNIT WEIGHT	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT	ELECTRICAL PH	REMARKS
CH-1			TRANE	ACSA	SCROLL		172.2 ton	343 GPM	272 GPM	42 °F	54 °F	10.47 Feet	10	2000 W	Yes	R-454B	126 lbf	6	6	69 A	Yes	95 °F	40 °F	9.7	17.89	16.14	0	Yes	9577 lbf	379 A	401 A	500 A	460 V	3	
CH-2			TRANE	ACSA	SCROLL		172.2 ton	343 GPM	272 GPM	42 °F	54 °F	10.47 Feet	10	2000 W	Yes	R-454B	126 lbf	6	6	69 A	Yes	95 °F	40 °F	9.7	17.89	16.14	0	Yes	9577 lbf	379 A	401 A	500 A	460 V	3	

PUMP SCHEDULE

MARK	LOCATION NAME	LOCATION NO.	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NO.	SYSTEM	PUMP TYPE	PUMP FLOW	PUMP HEAD	PUMP DRIVE TYPE	MOTOR HP	MOTOR RPM	MOTOR EFF	MOTOR ECM	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL HZ	UNIT WEIGHT	REMARKS
P-1	PUMP ROOM	0010	Taco	2513D	CHILLED WATER	END SUCTION	343 GPM	140 FT	DIRECT	20 hp	1760	0.67	Yes	460 V	3	60 Hz	856 lbf	
P-2	PUMP ROOM	0010	Taco	2513D	CHILLED WATER	END SUCTION	343 GPM	140 FT	DIRECT	20 hp	1760	0.67	Yes	460 V	3	60 Hz	856 lbf	
P-3	PUMP ROOM	0010	Taco	2513D	CHILLED WATER	END SUCTION	343 GPM	140 FT	DIRECT	20 hp	1760	0.67	Yes	460 V	3	60 Hz	856 lbf	

AIR HANDLING UNIT SCHEDULE - CHILLED WATER

MARK	DESCRIPTION	LOCATION NAME	LOCATION NO.	SERVES	MANUFACTURER	MODEL NO.	SUPPLY AIRFLOW	OUTSIDE AIR FLOW	OUTSIDE AIR %	OUTSIDE AIR DCV	OUTSIDE AIR MIN	FAN AIRFLOW DESIGN	FAN AIRFLOW MIN	FAN PRESS ESP	FAN PRESS TSP	FAN MOTOR QTY	FAN MOTOR POWER	FAN MOTOR ECM	COOLING COIL CAP TOTAL	COOLING COIL CAP SENSIBLE	COOLING COIL AIRSIDE EAT(db)	COOLING COIL AIRSIDE EAT(wb)	COOLING COIL AIRSIDE LAT(db)	COOLING COIL AIRSIDE LAT(wb)	COOLING COIL AIRSIDE PD	COOLING COIL WATERSIDE FLOW	COOLING COIL WATERSIDE EWT	COOLING COIL WATERSIDE LWT	COOLING COIL WATERSIDE PD	UNIT WEIGHT	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT	ELECTRICAL PH	REMARKS
AHU-0					TRANE	CSAA017	8000 CFM	1710 CFM	21.4	No	1710 CFM	8000 CFM	2675 CFM	2.00 in-wg	3.71 in-wg	2	6 hp	Yes	308630 Btu/h	214570 Btu/h	77.4 °F	65.6 °F	53.0 °F	52.7 °F	0.67 in-wg	51 GPM	42 °F	54 °F	5.24 Feet	1895 lbf	13 A	14 A	20 A	460 V	3	
AHU-1		MECHANICAL	1004		TRANE	CSAA017	7400 CFM	1740 CFM	23.5	No	1740 CFM	7400 CFM	2445 CFM	2.00 in-wg	3.61 in-wg	2	6 hp	Yes	323920 Btu/h	213860 Btu/h	78.0 °F	66.3 °F	51.8 °F	51.6 °F	0.65 in-wg	54 GPM	42 °F	54 °F	5.72 Feet	1847 lbf	14 A	16 A	20 A	460 V	3	
AHU-2		MECHANICAL	1004		TRANE	CSAA012	6000 CFM	2370 CFM	39.5	Yes	2370 CFM	6000 CFM	3050 CFM	2.00 in-wg	3.86 in-wg	2	6 hp	Yes	260560 Btu/h	165910 Btu/h	80.0 °F	66.4 °F	55.0 °F	54.6 °F	0.66 in-wg	43 GPM	42 °F	54 °F	5.06 Feet	1539 lbf	14 A	16 A	20 A	460 V	3	
AHU-3		MECHANICAL	2003		TRANE	CSAA012	5400 CFM	860 CFM	15.9	No	860 CFM	5400 CFM	1670 CFM	2.00 in-wg	3.64 in-wg	1	10 hp	Yes	204320 Btu/h	143800 Btu/h	77.2 °F	65.4 °F	53.0 °F	52.7 °F	0.59 in-wg	34 GPM	42 °F	54 °F	3.27 Feet	1534 lbf	11 A	13 A	20 A	460 V	3	
AHU-4		MECHANICAL	2003		TRANE	CSAA014	7000 CFM	1500 CFM	21.4	No	1500 CFM	7000 CFM	2425 CFM	2.00 in-wg	3.93 in-wg	2	6 hp	Yes	280740 Btu/h	191000 Btu/h	77.9 °F	66.1 °F	53.1 °F	52.8 °F	0.77 in-wg	47 GPM	42 °F	54 °F	6.19 Feet	1630 lbf	14 A	16 A	20 A	460 V	3	
AHU-6		MECHANICAL	3004		TRANE	CSAA021	9400 CFM	2120 CFM	22.6	Yes	2120 CFM	9400 CFM	3340 CFM	2.00 in-wg	3.52 in-wg	2	6 hp	Yes	348180 Btu/h	238500 Btu/h	78.0 °F	66.3 °F	55.0 °F	54.2 °F	0.52 in-wg	58 GPM	42 °F	54 °F	6.10 Feet	2162 lbf	13 A	14 A	20 A	460 V	3	
AHU-7		MECHANICAL	3004		TRANE	CSAA021	10000 CFM	2020 CFM	20.2	No	2020 CFM	10000 CFM	3285 CFM	2.00 in-wg	3.64 in-wg	2	6 hp	Yes	352600 Btu/h	248100 Btu/h	77.5 °F	65.8 °F	55.0 °F	54.2 °F	0.57 in-wg	59 GPM	42 °F	54 °F	6.24 Feet	2164 lbf	13 A	14 A	20 A	460 V	3	

FAN SCHEDULE

MARK	LOCATION NAME	LOCATION NO.	SERVES	MANUFACTURER	MODEL NO.	TYPE	FAN AIRFLOW DESIGN	FAN AIRFLOW MIN	FAN PRESS ESP	FAN DRIVE TYPE	FAN MOTOR POWER	FAN MOTOR ECM	SOUND PRESS LEVEL (dBA)	UNIT WEIGHT	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTS	ELECTRICAL PH	INTERLOCK ID	REMARKS
EF-0				GREENHECK	CJUX-41-160-0823-M30	AXIAL TRANSFER	6011 CFM	6011 CFM	0.55 in-wg	DIRECT	3 hp	Yes	77	216.00 lb	0 A	0 A	0 A	208 V	3		
EF-1				GREENHECK	SQ-90-VG	INLINE	300 CFM	300 CFM	0.50 in-wg	DIRECT	0.1 hp	Yes	45	34.00 lb	2 A	2 A	15 A	120 V	1		
EF-2				GREENHECK	SQ-90-VG	INLINE	550 CFM	550 CFM	0.50 in-wg	DIRECT	0.1 hp	Yes	45	34.00 lb	2 A	2 A	15 A	120 V	1		
EF-3				GREENHECK	SQ-90-VG	INLINE	450 CFM	450 CFM	0.50 in-wg	DIRECT	0.1 hp	Yes	45	34.00 lb	2 A	2 A	15 A	120 V	1		
EF-5	PRIVATE WC	3508A		GREENHECK	SP-A90	CEILING	50 CFM	50 CFM	0.30 in-wg	DIRECT	0.02 hp	Yes	30	12.00 lb	1 A	1 A	15 A	120 V	1		
EF-6				GREENHECK	SP-A90	CEILING	50 CFM	50 CFM	0.30 in-wg	DIRECT	0.02 hp	Yes	30	12.00 lb	1 A	1 A	15 A	120 V	1		
EF-7	PRIVATE WC	3613A		GREENHECK	SP-A90	CEILING	50 CFM	50 CFM	0.30 in-wg	DIRECT	0.02 hp	Yes	30	12.00 lb	1 A	1 A	15 A	120 V	1		
EF-8	ADA TOILET	3612		GREENHECK	SP-A90	CEILING	50 CFM	50 CFM	0.30 in-wg	DIRECT	0.02 hp	Yes	30	12.00 lb	1 A	1 A	15 A	120 V	1		

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

MARK	LOCATION NAME	LOCATION NO.	MANUFACTURER	MODEL NO.	NECK SIZE	PRIMARY AIRFLOW MAX	PRIMARY AIRFLOW MIN	NC	UNIT WEIGHT	ELECTRICAL VOLT	ELECTRICAL PH	REMARKS
VAV-0-22			TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-0-23			TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-2-15	MECHANICAL	1004	TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-2-17	TELECOM	1003	TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-2-17	ELECTRICAL	1003A	TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-4-19	MECHANICAL	2003	TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-4-20	TELE/ELEC	2002	TITUS	DESV	6	400 CFM	120 CFM	0	37.00 lbf	120 V	1	
VAV-7-22	MECHANICAL	3004	TITUS	DESV	4	0 CFM	0 CFM	0	37.00 lbf	120 V	1	
VAV-7-23	ELECTRICAL/ TELECOM	3003	TITUS	DESV	4	0 CFM	0 CFM	0	37.00 lbf	120 V	1	

FAN COIL UNIT SCHEDULE - CHILLED WATER

MARK	LOCATION NAME	LOCATION NO.	MANUFACTURER	MODEL NO.	AIR SIDE SUPPLY AIR FLOW	AIR SIDE OUTSIDE AIR FLOW	FAN PRESS ESP	FAN MOTOR QTY	FAN MOTOR POWER	FAN MOTOR ECM	COOLING COIL CAP TOTAL	COOLING COIL AIRSIDE EAT(db)	COOLING COIL AIRSIDE EAT(wb)	COOLING COIL AIRSIDE LAT(db)	COOLING COIL AIRSIDE LAT(wb)	COOLING COIL WATERSIDE FLOW	COOLING COIL WATERSIDE EWT	COOLING COIL WATERSIDE LWT	COOLING COIL WATERSIDE PD	UNIT WEIGHT	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTS	ELECTRICAL PH	INTERLOCK ID	REMARKS
AC-1	SERVER CENTER	3401	MULTIAQUA	MHQWW-36-H-1	850 CFM	0 CFM	0.00 in-wg	1	0.08 hp	Yes	33331.0 Btu/h	80 °F	67 °F	55 °F	54 °F	8 GPM	42 °F	54 °F	17.90 Feet	51 lbf	0 A	1 A	15 A	208 V	1		
AC-2	SERVER CENTER	3401	MULTIAQUA	MHQWW-36-H-1	850 CFM	0 CFM	0.00 in-wg	1	0.08 hp	Yes	33331.0 Btu/h	80 °F	67 °F	55 °F	54 °F	8 GPM	42 °F	54 °F	17.90 Feet	51 lbf	0 A	1 A	15 A	208 V	1		
FCU-1			TRANE	BCVE060	1600 CFM	0 CFM	0.50 in-wg	1	1.00 hp	Yes	61730.0 Btu/h	80 °F	67 °F	55 °F	54 °F	10 GPM	42 °F	54 °F	3.65 Feet	313 lbf	8 A	10 A	15 A				

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE - ELECTRIC HEATER

MARK	LOCATION NAME	LOCATION NO.	MANUFACTURER	MODEL NO.	NECK SIZE	PRIMARY AIRFLOW MAX	PRIMARY AIRFLOW MIN	HEATING COIL AIRSIDE CAP	HEATING COIL AIRSIDE DESIGN FLOW	HEATING COIL AIRSIDE EAT(db)	HEATING COIL AIRSIDE LAT(db)	HEATING ELEMENT QTY	HEATING ELEMENT POWER	HEATING ELEMENT SCR	HEATING ELEMENT STAGES	NC	UNIT WEIGHT	ELECTRICAL VOLT	ELECTRICAL PH	REMARKS
VAV-0-1	LOBBY	0001	TITUS	DESV	7	480 CFM	145 CFM	3909.1 Btu/h	145 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-2	CORRIDOR	0002	TITUS	DESV	7	425 CFM	130 CFM	3504.7 Btu/h	130 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-3			TITUS	DESV	7	530 CFM	160 CFM	4313.5 Btu/h	160 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-4	CORRIDOR	0300	TITUS	DESV	7	470 CFM	145 CFM	3909.1 Btu/h	145 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-5			TITUS	DESV	6	360 CFM	80 CFM	2166.7 Btu/h	80 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-6			TITUS	DESV	5	200 CFM	60 CFM	1617.6 Btu/h	60 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-7			TITUS	DESV	7	425 CFM	130 CFM	3504.7 Btu/h	130 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-8			TITUS	DESV	6	370 CFM	115 CFM	3100.3 Btu/h	115 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-9	CONF. ROOM	0009	TITUS	DESV	6	330 CFM	100 CFM	2699.9 Btu/h	100 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-10			TITUS	DESV	6	300 CFM	90 CFM	2426.3 Btu/h	90 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-11			TITUS	DESV	6	390 CFM	120 CFM	3236.1 Btu/h	120 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-12			TITUS	DESV	8	660 CFM	200 CFM	5391.9 Btu/h	200 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-13			TITUS	DESV	6	285 CFM	90 CFM	2426.3 Btu/h	90 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-14			TITUS	DESV	6	285 CFM	90 CFM	2426.3 Btu/h	90 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-15			TITUS	DESV	5	215 CFM	65 CFM	1752.4 Btu/h	65 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-16/17			TITUS	DESV	7	515 CFM	155 CFM	4178.7 Btu/h	155 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-18	DRIVERS' LOUNGE	0109	TITUS	DESV	8	635 CFM	195 CFM	5257.1 Btu/h	195 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-19			TITUS	DESV	6	350 CFM	105 CFM	2830.7 Btu/h	105 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	480 V	3	
VAV-0-20			TITUS	DESV	8	555 CFM	170 CFM	4583.1 Btu/h	170 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	480 V	3	
VAV-0-21			TITUS	DESV	5	190 CFM	60 CFM	1617.6 Btu/h	60 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	480 V	3	
VAV-1-1	COUNSELOR	1110	TITUS	DESV	6	295 CFM	90 CFM	2426.3 Btu/h	90 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-2	MULTIP.	1112	TITUS	DESV	6	305 CFM	95 CFM	2561.1 Btu/h	95 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-3	WAITING AREA	1101	TITUS	DESV	9	755 CFM	230 CFM	6200.6 Btu/h	230 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	81.00 lbf	208 V	1	
VAV-1-4	EXEC ASST.	1102	TITUS	DESV	6	325 CFM	100 CFM	2699.9 Btu/h	100 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-5	LOBBY	1001	TITUS	DESV	7	525 CFM	160 CFM	4313.5 Btu/h	160 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-1-6	LOBBY	1001	TITUS	DESV	6	280 CFM	85 CFM	2291.5 Btu/h	85 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-7	CORRIDOR	1001C	TITUS	DESV	6	255 CFM	80 CFM	2156.7 Btu/h	80 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-8	CORRIDOR	1300	TITUS	DESV	7	405 CFM	125 CFM	3369.9 Btu/h	125 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	68.00 lbf	208 V	1	
VAV-1-9	DIRECTOR CERT.	1304	TITUS	DESV	6	275 CFM	85 CFM	2291.5 Btu/h	85 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-10	CC CASE WRK	1301	TITUS	DESV	4	105 CFM	35 CFM	943.6 Btu/h	35 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-11	SHARED LOBBY	1020	TITUS	DESV	9	775 CFM	235 CFM	6335.4 Btu/h	235 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	81.00 lbf	208 V	1	
VAV-1-12	CORRIDOR	1500	TITUS	DESV	12	1245 CFM	375 CFM	10109.7 Btu/h	375 CFM	55 °F	80 °F	1	3.0 kW	Yes		0	92.00 lbf	208 V	1	
VAV-1-13	ELIG. SUPER	1502	TITUS	DESV	5	195 CFM	60 CFM	1617.6 Btu/h	60 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-14	ELIG. SUPER	1505	TITUS	DESV	5	210 CFM	65 CFM	1752.4 Btu/h	65 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-15	CORRIDOR	1600	TITUS	DESV	9	845 CFM	255 CFM	6874.6 Btu/h	255 CFM	55 °F	80 °F	1	2.5 kW	Yes		0	81.00 lbf	208 V	1	
VAV-1-16	CORRIDOR	1500	TITUS	DESV	6	255 CFM	80 CFM	2156.7 Btu/h	80 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-1-17	CORRIDOR	1500	TITUS	DESV	6	350 CFM	105 CFM	2830.7 Btu/h	105 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-1	SHARED OFFICE (5)	1211	TITUS	DESV	7	465 CFM	140 CFM	3774.3 Btu/h	140 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-2-2	DIRECTOR	1212	TITUS	DESV	5	155 CFM	50 CFM	1348.0 Btu/h	50 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-3	NURSE	1209	TITUS	DESV	4	100 CFM	30 CFM	808.8 Btu/h	30 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-4A	CONGREGATE ROOM	1206	TITUS	DESV	7	525 CFM	160 CFM	4313.5 Btu/h	160 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-2-4B	CONGREGATE ROOM	1206	TITUS	DESV	8	700 CFM	210 CFM	5661.5 Btu/h	210 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	68.00 lbf	208 V	1	
VAV-2-5	CONGREGATE ROOM	1206	TITUS	DESV	9	765 CFM	230 CFM	6200.6 Btu/h	230 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	81.00 lbf	208 V	1	
VAV-2-6	COMP. LAB	1203	TITUS	DESV	7	490 CFM	150 CFM	4043.9 Btu/h	150 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-2-7	KITCHEN	1205	TITUS	DESV	6	370 CFM	115 CFM	3100.3 Btu/h	115 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-8	CONFERENCE	1012	TITUS	DESV	6	380 CFM	115 CFM	3100.3 Btu/h	115 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-9	BREAKROOM	1013	TITUS	DESV	6	310 CFM	95 CFM	2561.1 Btu/h	95 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-10/11	CORRIDOR	1008	TITUS	DESV	7	460 CFM	140 CFM	3774.3 Btu/h	140 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-2-12	DIRECTOR SUPPORT	1406	TITUS	DESV	6	260 CFM	80 CFM	2156.7 Btu/h	80 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-13	SYSTEMS ANALYSTS (3)	1408	TITUS	DESV	6	280 CFM	85 CFM	2291.5 Btu/h	85 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-2-14	ISSUANCE RECORDS	1403	TITUS	DESV	8	665 CFM	200 CFM	5391.9 Btu/h	200 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	68.00 lbf	208 V	1	
VAV-3-1	LOBBY	2000	TITUS	DESV	7	470 CFM	145 CFM	3909.1 Btu/h	145 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-3-2			TITUS	DESV	7	455 CFM	140 CFM	3774.3 Btu/h	140 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-3-3	LOBBY	2000	TITUS	DESV	7	490 CFM	150 CFM	4043.9 Btu/h	150 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-3-4	CORRIDOR	2100	TITUS	DESV	12	1270 CFM	385 CFM	10379.3 Btu/h	385 CFM	55 °F	80 °F	1	3.5 kW	Yes		0	92.00 lbf	208 V	1	
VAV-3-5	RECORDS	2107	TITUS	DESV	9	705 CFM	215 CFM	5796.3 Btu/h	215 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	81.00 lbf	208 V	1	
VAV-3-6	EDUCATION SUPERVISOR	2109	TITUS	DESV	6	355 CFM	110 CFM	2965.5 Btu/h	110 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE - ELECTRIC HEATER

MARK	LOCATION NAME	LOCATION NO.	MANUFACTURER	MODEL NO.	NECK SIZE	PRIMARY AIRFLOW MAX	PRIMARY AIRFLOW MIN	HEATING COIL AIRSIDE CAP	HEATING COIL AIRSIDE DESIGN FLOW	HEATING COIL AIRSIDE EAT(db)	HEATING COIL AIRSIDE LAT(db)	HEATING ELEMENT QTY	HEATING ELEMENT POWER	HEATING ELEMENT SCR	HEATING ELEMENT STAGES	NC	UNIT WEIGHT	ELECTRICAL VOLT	ELECTRICAL PH	REMARKS
VAV-3-7	CORRIDOR	2100	TITUS	DESV	7	530 CFM	160 CFM	4313.5 Btu/h	160 CFM	55 °F	80 °F	1	1.5 kW	Yes		0	68.00 lbf	208 V	1	
VAV-3-8	RECORDS	2110	TITUS	DESV	4	150 CFM	45 CFM	1213.2 Btu/h	45 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-3-9	CORRIDOR	2100	TITUS	DESV	10	940 CFM	285 CFM	7683.4 Btu/h	285 CFM	55 °F	80 °F	1	2.5 kW	Yes		0	81.00 lbf	208 V	1	
VAV-4-1	RECORDS	2209	TITUS	DESV	4	130 CFM	40 CFM	1078.4 Btu/h	40 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-2	INTERVIEW 1	2202	TITUS	DESV	4	125 CFM	40 CFM	1078.4 Btu/h	40 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-3	INTERVIEW 2	2203	TITUS	DESV	4	125 CFM	40 CFM	1078.4 Btu/h	40 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-4	CORRIDOR	2200	TITUS	DESV	8	695 CFM	210 CFM	5661.5 Btu/h	210 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	68.00 lbf	208 V	1	
VAV-4-5	DISTRICT MANAGER	2206	TITUS	DESV	6	280 CFM	85 CFM	2291.5 Btu/h	85 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-6	BREAKROOM	2009	TITUS	DESV	7	405 CFM	125 CFM	3389.9 Btu/h	125 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	68.00 lbf	208 V	1	
VAV-4-7	CONFERENCE	2010	TITUS	DESV	8	620 CFM	190 CFM	5122.3 Btu/h	190 CFM	55 °F	80 °F	1	2.0 kW	Yes		0	68.00 lbf	208 V	1	
VAV-4-8	CORRIDOR	2000B	TITUS	DESV	5	245 CFM	75 CFM	2021.9 Btu/h	75 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-9	FLEX WORKSTATIONS	2007	TITUS	DESV	4	150 CFM	45 CFM	1213.2 Btu/h	45 CFM	55 °F	80 °F	1	0.5 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-10	VISITATION ROOM	2303	TITUS	DESV	6	285 CFM	90 CFM	2426.3 Btu/h	90 CFM	55 °F	80 °F	1	1.0 kW	Yes		0	65.00 lbf	208 V	1	
VAV-4-11	CORRIDOR	2300	TITUS	DESV	7	535 CFM	160 CFM	4313.5 Btu/h	160 CFM	55 °F	80 °F	1

30% CDS

NOT FOR CONSTRUCTION

SHEET NUMBER
M801

DRAWN BY:	Author
CHECKED BY:	Checker
DATE:	4/2/2026

SLA JOB NUMBER
SLA 470-23-49
OGR PROJECT NUMBER
101918

REVISIONS:	
No.	Description / Date

MECHANICAL CONTROLS

Knud Hansen Building & Equipment -
470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

SUBMISSIONS:		
Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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SHEET NUMBER
M802

SLA JOB NUMBER
SLA 470-23-49
OUR PROJECT NUMBER
101918

DRAWN BY:	Author
CHECKED BY:	Checker
DATE:	4/2/2026

REVISIONS:	
No.	Description
	Date

MECHANICAL CONTROLS

Knud Hansen Building & Equipment - 470-23-49

1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

SUBMISSIONS:		
Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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A B C D E

1 2 3 4 5

ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

SYMBOL	DESCRIPTION
	DEVICE ABBREVIATION TAGS:
6C	POKE-THRU WITH 6" CORE DRILL
8C	POKE-THRU WITH 8" CORE DRILL
4G	FOUR-GANG FLOOR BOX
6G	SIX-GANG FLOOR BOX
8G	EIGHT-GANG FLOOR BOX
AV	DOUBLE DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT FOR AV RACK OR CART
C	RECEPTACLE CONTROLLED PER ASHRAE 90.1 (2010); PROVIDE POWER PACK FOR RECEPTACLE CIRCUIT, TO BE CONTROLLED THROUGH LOCAL ROOM OCCUPANCY SENSOR(S); PROVIDE DEVICE WITH BLUE DOT OR UNIVERSAL POWER SYMBOL
ETR	EXISTING TO REMAIN
H	HOSPITAL GRADE
IG	ISOLATED GROUND (ORANGE DEVICE)
RL	RELOCATED
TR	TAMPER RESISTANT
TV	RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT
U	DUPLEX RECEPTACLE WITH (2) USB PORTS
WP	WEATHERPROOF
S_A	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_K	SINGLE POLE KEY SWITCH
S_T	DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH
S_{OSab}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, DUAL RELAY
S_{OS}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
S_{VS}	WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH
S_{DOS}	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH
S_{LV}	LOW VOLTAGE SWITCH
S_{LVO}	LOW VOLTAGE OVERRIDE SWITCH
S_{LVD}	LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING
S_F	FAN SWITCH
S_M	MOTOR RATED SWITCH
S_D	DIMMER SWITCH, LINE VOLTAGE
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
DL	DAYLIGHT SENSOR CEILING MOUNTED
DL	DAYLIGHT SENSOR WALL MOUNTED
VS	VACANCY SENSOR CEILING MOUNTED
VS	VACANCY SENSOR WALL MOUNTED
PC	PHOTOCELL, MOUNTED ON ROOF FACING NORTH
	NOTE: DIAGONAL MARKS INDICATED ON ANY DEVICE REPRESENTS DEVICE CONNECTED TO EMERGENCY CIRCUIT (RED DEVICE FOR RECEPTACLE); TYPICAL FOR ANY DEVICE IN LEGEND
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVER MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE, EACH RECEPTACLE ON SEPARATE CIRCUIT (PROVIDE BREAKER WITH 2-POLE COMMON TRIP HANDLE)
	SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE
	GFCI RECEPTACLE; "WP" INDICATES CAST METAL "IN-USE" WEATHERPROOF COVER, WEATHER-RESISTANT LISTED
	TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	GFCI RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE, CEILING MOUNTED
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE, CEILING MOUNTED
	PEDESTAL MOUNTED DUPLEX RECEPTACLE
	FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE
	FLOOR BOX, TWO DUPLEX RECEPTACLES (QUAD) WITH APPROPRIATE FLANGE
	MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE, VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) , VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED
	JUNCTION BOX WALL MOUNTED
	JUNCTION BOX MOUNTED IN OR ABOVE CEILING OR IN STRUCTURE
	WALL MOUNTED FURNITURE FEED POWER CONNECTION
PP	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS
PP	POWER POLE WITH POWER & DATA OUTLETS
P	MULTI-SERVICE POKE-THRU WITH TWO INTEGRAL DUPLEX RECEPTACLES AND VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS
	MULTI-SERVICE RACEWAY WITH 5-20R RECEPTACLES, 18" O.C. UNLESS OTHERWISE NOTED
	CLOCK RECEPTACLE, WALL MOUNTED
GND	GROUND BUS BAR, COPPER
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT-TRIP PUSHBUTTON; SEMI-FLUSH WALL MOUNTED UNLESS OTHERWISE NOTED; NEMA 3R FOR EXTERIOR LOCATIONS
EPO	EMERGENCY POWER OFF SHUNT-TRIP PUSHBUTTON, RED MUSHROOM HEAD, CLEAR LEXAN PROTECTIVE COVER
	OVERHEAD DOOR PUSHBUTTON CONTROL STATION
	PUSHBUTTON STATION
	MOTOR CONNECTION
MD	MOTORIZED DAMPER CONNECTION
VFD	VARIABLE FREQUENCY DRIVE
DDC	DIRECT DIGITAL CONTROL PANEL
BAS	BUILDING AUTOMATION SYSTEM CONTROL PANEL
LCP	LIGHTING CONTROL PANEL

SYMBOL	DESCRIPTION
MH	MANHOLE
PB	PULLBOX
HH	HANDHOLE
T	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
30AR / 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH, RATING AS NOTED NF = NON-FUSED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
30AR / 20AF / 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED FUSED DISCONNECT AF = AMPERE RATING OF FUSE AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
MCP AMPERE RATING / 20/3 / 3R	# OF POLES NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR
	CONDUIT HOMERUN TO ELECTRICAL PANEL
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUBBED OUT OR UP
	CONDUIT CONTINUED
	FLEXIBLE CONDUIT
	CONDUIT SEAL-OFF FITTING
	GROUND OR GROUND ROD AS NOTED
	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (LIGHT, SOLID LINE)
	NEW (HEAVY, SOLID LINE)

LIGHTING

	STRIP FIXTURE
A	FIXTURE TYPE
Z / ZX.X / a	FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER
	FIXTURE RECESSED, PENDANT OR SURFACE CEILING
	DIAGONAL HALF SHADING INDICATE FIXTURE CONNECTED TO CRITICAL CIRCUIT OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS) FULL SHADING INDICATE FIXTURE CONNECTED TO LIFE SAFETY CIRCUIT.
	FIXTURE, WALL MOUNTED
	RECESSED, PENDANT OR SURFACE CEILING
	WALL MOUNTED
	CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE ACCENT LIGHT, FACADE LIGHT
	TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS)
	EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED
	LINEAR RECESSED, PENDANT OR SURFACE CEILING
	EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS
	EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE
	EXIT LIGHT, CEILING OR PENDANT MOUNTED, DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE
	EXIT LIGHT, WALL MOUNTED

LIGHTNING PROTECTION SYSTEM

CI	CLASS I MAIN CONDUCTOR CABLE
CII	CLASS II MAIN CONDUCTOR CABLE
	TEE SPLICE
	FOUR-WAY SPLICE
	BONDING PLATE
	PIPE CLAMP FOR PLUMBING VENT THRU ROOF.
	AIR TERMINAL; PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS
P	PARAPET MOUNTED AIR TERMINAL
F	FLAT ROOF MOUNTED OR MECHANICAL
G	COUNTERPOISE CONDUCTOR
DN DN	THRU-ROOF CONDUCTOR
	GROUND TERMINAL
	BONDING CONDUCTOR
DN	DOWN CONDUCTOR

FIRE ALARM / DETECTION SYSTEM

NFPA	LEGACY	DESCRIPTION
F	F	MANUAL PULL STATION
S		CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION
D		DUCT SMOKE DETECTOR R = RETURN S = SUPPLY
S_BR	B_R	BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER
H	H	HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED
S	S	SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY
	CD	DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
XXCD	XXCD	**COMBINATION HORN/STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED** CD = CANDELA RATING
H	H	HORN ONLY, WALL MOUNTED
XXCD	XXCD	STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
XXCD	PS	**COMBINATION HORN/STROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED** CD = CANDELA RATING
S	SS	SPEAKER ONLY, CEILING MOUNTED
S	SS	SPEAKER ONLY, WALL MOUNTED
	F	STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED
	FJ	FIREMAN'S PHONE JACK
VS	TS	SPRINKLER TAMPER SWITCH CONNECTION
WS	FS	SPRINKLER WATERFLOW SWITCH CONNECTION
PS	PS	PRESSURE SWITCH CONNECTION
DH		ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
FACP	FACP	FIRE ALARM CONTROL PANEL
FATC	FATC	FIRE ALARM TERMINAL CABINET
FAA	FAA	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED
EVAC	EVAC	VOICE EVACUATION PANEL
MNS	MNS	MASS NOTIFICATION SYSTEM PANEL
DACT	DACT	MASS NOTIFICATION SYSTEM PANEL

AUDIO/VIDEO RACEWAY SYSTEM

TV	TELEVISION SIGNAL WALL OUTLET, MOUNTED ADJACENT TO DUPLEX RECEPTACLE IDENTIFIED WITH "TV" ADJACENT TO DEVICE; REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT
S_X	CEILING MOUNTED SPEAKER X = ZONE TO BE CONTROLLED
S	WALL MOUNTED SPEAKER
VC	WALL-MOUNTED VOLUME CONTROL; PROVIDE 3/4" C. STUBBED UP ABOVE CEILING AND SINGLE STANDARD ELECTRICAL BOX AT 48" AFF
MC_X	WALL-MOUNTED MASTER VOLUME CONTROL; PROVIDE 3/4" C. STUBBED UP ABOVE CEILING AND SINGLE STANDARD ELECTRICAL BOX AT 48" AFF X = ZONE TO BE CONTROLLED
RCA	WALL-MOUNTED DUAL RCA JACKS FOR MP3 CONNECTION
AV	AUDIO/VISUAL CABINET OR RACK

AREA OF RESCUE ASSISTANCE SYSTEM

AOR_CS	AREA OF RESCUE ASSISTANCE CALL STATION, WALL, FLUSH MOUNTED
AOR_R	AREA OF RESCUE ASSISTANCE RECEIVER, WALL, FLUSH MOUNTED
AOR_PS	AREA OF RESCUE ASSISTANCE POWER SUPPLY
AOR	AREA OF RESCUE ASSISTANCE ILLUMINATED SIGNAGE

ACCESS CONTROL / CCTV RACEWAY SYSTEM

ACP	ACCESS CONTROL SYSTEM PANEL
FIX	CCTV CAMERA; PROVIDE FACEPLATE & DOUBLE GANG JUNCTION BOX, (1) 1"C. WITH CAT5A CABLE TO NEAREST ISP/MDF/IT ROOM, UNLESS NOTED OTHERWISE FIX = FIXED CCTV CAMERA PAN = PAN/TILT/ZOOM CCTV CAMERA
DPS	DOOR POSITION SWITCH
CR	CARD READER, WALL MOUNTED, MOUNTED AT 48" AFF
KP	KEY PAD, WALL MOUNTED, MOUNTED AT 48" AFF
CK	COMBINED CARD READER/KEY PAD, WALL MOUNTED, MOUNTED AT 48" AFF
ES	ELECTRIC STRIKE
EM	ELECTRIC MORTISE/TRIM LOCK
EL	ELECTRIC LATCH
ML	MAGNETIC LOCK
DE	DELAYED EGRESS
	REMOTE DOOR RELEASE BUTTON
	ASSOCIATED DOOR DETAIL REFERENCE

INTERCOM SYSTEM

ICEC	INTERCOM EQUIPMENT CABINET
IC_M	INTERCOM MASTER STATION
IC_AP	ADMINISTRATIVE PHONE
IC_HS	HANDSET
IC_CS	CALL STATION
SX_Y	CEILING MOUNTED SPEAKER "X" INDICATES TYPE "Y" INDICATES ZONE
SX_Y	WALL MOUNTED SPEAKER "X" INDICATES TYPE "Y" INDICATES ZONE NO ZONE INDICATES LOCAL AUDIO/VIDEO SYSTEM

VOICE AND DATA RACEWAY SYSTEM

SYMBOL	DESCRIPTION
	SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR VOICE/DATA OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED; PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING C = ABOVE COUNTER
W	SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR TELEPHONE WALL OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED; PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING W = WALL MOUNTED AT 52" AFF FOR HOUSE PHONE W, ADA = WALL MOUNTED AT 44" AFF FOR ADA ACCESSIBLE PAY PHONE ELV = WALL MOUNTED @ 52" AFF FOR TELEPHONE IN ELEVATOR MACHINE ROOM
WAP	WIRELESS ACCESS POINT OUTLET, CEILING MOUNTED; ACTUAL QUANTITY AND LOCATIONS SHALL BE BASED ON SIGNAL SURVEY BY OWNER'S WLAN VENDOR
	MULTI-SERVICE FLOOR BOX WITH RECEPTACLE AND TECHNOLOGY DEVICES (REFER TO OWNER'S VENDOR DRAWINGS FOR DEVICES); PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
	MULTI-SERVICE FLOOR BOX WITH FURNITURE FEED CONNECTION; PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
	2-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR WALL MOUNTED FURNITURE FEED DATA CONNECTION; PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
P	MULTI-SERVICE POKE-THRU WITH RECEPTACLES AND TECHNOLOGY DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS AND FLOOR PLANS FOR RACEWAY INFORMATION
PP	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS); REFER TO FLOOR PLANS FOR RACEWAY INFORMATION
	3/4"THICK X 8' HIGH A/C PLYWOOD BACKBOARD MOUNTED 8" AFF FROM BOTTOM, PAINTED WITH GRAY FIRE-RETARDANT PAINT, WIDTH AS INDICATED ON FLOOR PLAN
	CABLE TRAY FOR HORIZONTAL LOW VOLTAGE CABLE, 12"W X 4" HIGH UNLESS OTHERWISE NOTED; LADDER TYPE IN IDF/MDF/IT ROOMS, BASKET/MESH TYPE IN OTHER AREAS, UNLESS OTHERWISE NOTED
	2-POST DATA RACK
	4-POST DATA RACK
	WALL MOUNTED DATA RACK

ABBREVIATIONS

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ABV/ CLG	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASA	AMERICAN STANDARDS ASSOCIATION
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BIL	BASIC IMPULSE LEVEL
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BRKR OR BKR	BREAKER
C	CONDUIT OR RACEWAY
CAB	CABINET
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLEC	CLOCK EQUIPMENT CABINET
CLG	CEILING
CO	CONDUIT OR RACEWAY ONLY
COAX	COAXIAL CABLE
COND	CONDUCTOR
CONN	CONNECTION
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DEMAND FACTOR
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
DO	DRAW OUT
DN	DOWN
DPST	DOUBLE POLE SINGLE THROW
EDH	ELECTRIC DUCT HEATER
EMT	ELECTRIC METALLIC TUBING
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EOR	ENGINEER OF RECORD
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FATC	FIRE ALARM TERMINAL CABINET
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FM	FACTORY MUTUAL
FPU	FAN POWERED UNIT
FT	FEET
GF	GROUND FAULT
GFA	GROUND FAULT ALARM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND, G	GROUND
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM
ICU	INTENSIVE CARE UNIT
IECC	INTERNATIONAL ENERGY CONSERVATION CODE

ABBREVIATIONS (CONT.)

IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IES	ILLUMINATING ENGINEERING SOCIETY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION
IT	INSTANTANEOUS TRIP
J® OR J-BOX	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LP	LIGHTNING PROTECTION
LT	LIGHT
LTG	LIGHTING
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN SERVICE DISTRIBUTION PANEL
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SERVICE SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MUX	MULTIPLEX (TRANSPONDER) PANEL
MVA	MEGA VOLT AMPS
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NL	NON-LINEAR
NO	NORMALLY OPEN OR NUMBER
OL	OVERLOAD
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PB	PULLBOX
PF	POWER FACTOR
PIV	POST INDICATOR VALVE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYLCHLORIDE
PWR	POWER
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS, GRC	RIGID GALVANIZED STEEL CONDUIT
RLA	RUNNING LOAD AMPERES
RMS	ROOT-MEAN-SQUARE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SCA	SHORT CIRCUIT AMPERES
SD	SMOKE DETECTOR
SEC	SECONDARY
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SST	SOLID STATE TRIP
STD	SHORT TIME TRIP
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TVEC	TELEVISION EQUIPMENT CABINET
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
UTIL	UTILITY
V	VOLT
VA	VOLTAMPERE
VAR	VOLT AMPERE REACTIVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER
XFR	TRANSFER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
E001	ELECTRICAL SYMBOLS, LEGEND, NOTES AND INDEX
E002	ELECTRICAL GENERAL NOTES
E100	ELECTRICAL SITE PLAN
E101	POWER LOWER FLOOR PLAN
E102	POWER MAIN FLOOR PLAN
E103	POWER SECOND FLOOR PLAN
E104	POWER THIRD FLOOR PLAN
E105	POWER ROOF PLAN
E121	LIGHTING LOWER LEVEL RCP
E122	LIGHTING MAIN FLOOR RCP
E123	LIGHTING SECOND FLOOR RCP
E124	LIGHTING THIRD FLOOR RCP
E601	ELECTRICAL ONE-LINE DIAGRAM
E651	ENLARGED ELECTRICAL PLANS
E651A	ENLARGED ELECTRICAL PLANS
E801	LIGHTNING PROTECTION ROOF PLAN
XE100	ELECTRICAL SITE DEMO PLAN

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
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ELECTRICAL SYMBOLS, LEGEND, NOTES AND INDEX

NOT FOR CONSTRUCTION

30% CDS

REVISIONS:

No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

ODR PROJECT NUMBER
101918

SHEET NUMBER
E001

ELECTRICAL DEMOLITION NOTES

1. DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN DASHED LINE TYPE ARE EXISTING TO BE DEMOLISHED. DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN LIGHT (SCREENED) SOLID LINE TYPE ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
2. EXISTING EQUIPMENT, LIGHT FIXTURES AND DEVICES SHOWN ARE BASED ON FIELD SURVEYS AND RECORD DRAWINGS PROVIDED BY THE OWNER AND ARE NOT NECESSARILY INCLUSIVE OF ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND DEVICES WITHIN PROJECT AREAS. IT IS THE INTENT THAT THE DEMOLITION PLANS PROVIDE A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION WHETHER INDICATED ON THE PLANS OR NOT.
3. EXISTING CIRCUITING SHOWN IS BASED ON RECORD DRAWINGS AND THE SURVEYED PANEL DIRECTORIES, WHERE THEY WERE AVAILABLE. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE CONDITIONS SHOWN ARE INTENDED TO SHOW THE LOCATIONS OF EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT, WHERE SHOWN ON THE PLAN DRAWINGS, AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION NECESSARY TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN.
4. WHERE EXISTING DEVICES ARE INDICATED TO REMAIN OR BE RELOCATED, ARE WITHIN THE SCOPE OF THIS PROJECT AND EXISTING CIRCUITING INFORMATION IS UNAVAILABLE, CONTRACTOR IS TO PROVIDE CIRCUIT TRACING TO IDENTIFY PANEL AND CIRCUIT SERVING THE DEVICE TO AND PROVIDE THAT INFORMATION TO THE ARCHITECT/ENGINEER PRIOR TO ROUTING CONDUITS AND WIRING FOR NEW DEVICES AND EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT.
5. WHERE EXISTING DEVICES ARE TO REMAIN, CONTRACTOR MUST EXTEND EXISTING CIRCUITING WHERE NECESSARY TO MAINTAIN CONTINUITY OF CIRCUIT.
6. COORDINATE WITH THE OWNER FOR DISPOSITION OF ELECTRICAL ITEMS TO BE DEMOLISHED. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS SUCH AS COVERPLATES, RECEPTACLES, LIGHT FIXTURES, PANELBOARDS, TRANSFORMERS, ETC, NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH THE OWNER PRIOR TO START OF DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
7. COORDINATE EXACT AREAS, WALLS, CEILINGS, ETC. TO BE DEMOLISHED WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND MECHANICAL DEMOLITION PLANS.
8. WHERE EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT ARE INDICATED TO BE DEMOLISHED, REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE PANEL OR TO NEAREST JUNCTION BOX TO MAINTAIN CIRCUIT CONTINUITY OF DEVICES AND EQUIPMENT TO REMAIN. WHERE PANELS ARE TO REMAIN, TURN BREAKER TO "OFF" POSITION AND LABEL THE CIRCUIT AS "SPARE" ON THE PANEL DIRECTORY.
9. ALL AREAS OUTSIDE THE SCOPE OF CONSTRUCTION ARE TO REMAIN ENERGIZED. COORDINATE PHASING WITH CONSTRUCTION MANAGER AND OWNER PRIOR TO DEMOLITION OF ANY ITEM WHICH MAY RESULT IN INTERRUPTION OF POWER.
10. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EXTENT OF AREA REQUIRING DEMOLITION AND ADDITIONAL INFORMATION ON ELECTRICAL DEMOLITION WITHIN THAT AREA. DISCONNECT ELECTRICAL SERVICE TO ALL EQUIPMENT BEING REMOVED. DEMOLITION SHALL BE PHASED AS REQUIRED BY DIVISION 1 OR DIRECTED BY THE OWNER.
11. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED OR RENOVATED AREA. CAP BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
12. ELECTRICAL DEVICES CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC., AND NOT NOTED ON THE DEMOLITION DRAWINGS ARE TO BE REMOVED AS REQUIRED, UNLESS SHOWN AS EXISTING TO REMAIN.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS. REPAIRS ARE TO BE DONE TO LOGICAL EDGES OF SURFACES AFFECTED AND SHALL MATCH IMMEDIATELY ADJACENT AREAS IN CONSTRUCTION, MATERIAL, FIRE RATING, FINISH AND COLOR.
14. PROVIDE BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN. MATCH COLOR OF NEW ADJACENT DEVICE COVERPLATES.
15. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND OBTAIN CLARIFICATIONS FROM ARCHITECT/ENGINEER IF NECESSARY.
16. COORDINATE ALL POWER INTERRUPTION WITH CONSTRUCTION MANAGER, OWNER, LANDLORD, AND UTILITY COMPANY (WHERE APPLICABLE) AND DO NOT INTERRUPT POWER WITHOUT WRITTEN PERMISSION. PROVIDE A MINIMUM OF ONE WEEK'S WRITTEN NOTIFICATION PRIOR TO WHEN POWER IS DESIRED TO BE INTERRUPTED. CONTRACTOR SHALL INVESTIGATE AND IDENTIFY ALL LOADS TO BE AFFECTED BY THE REQUESTED INTERRUPTION. CONTRACTOR SHALL SUBMIT WRITTEN SEQUENCE OF STEPS FOR EACH SHUTDOWN ALONG WITH THE ESTIMATED INTERRUPTION DURATIONS. MAKE ARRANGEMENTS TO MAINTAIN POWER TO ALL EXISTING NECESSARY LIGHTING, DEVICES AND EQUIPMENT AS NEEDED AND REQUESTED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK.
17. EXERCISE EXTREME CAUTION WHEN REMOVING RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OTHER WIRING DEVICES, EQUIPMENT AND LIGHT FIXTURES THAT MAY BE CONNECTED TO THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.
18. INFORMATION INDICATED IN THE DEMOLITION PORTION OF THE CONTRACT DRAWINGS IS DIAGRAMMATIC IN NATURE. FIELD VERIFY ELECTRICAL CIRCUIT HOMERUNS TO ALL ELECTRICAL ITEMS SCHEDULED TO BE DEMOLISHED AND PERFORM THE WORK AS INTENDED AND DEPICTED ON THE DRAWINGS.
19. UPDATE ALL EXISTING ELECTRICAL EQUIPMENT NAMEPLATES AND DIRECTORIES AS NECESSARY TO REFLECT FINAL AS-BUILT CONDITIONS AT THE END OF CONSTRUCTION.
20. STORE ITEMS INDICATED TO BE RETURNED TO THE OWNER IN A DRY, CLEAN AND PROTECTED AREA. NOTIFY OWNER WHEN ITEMS ARE READY TO BE REMOVED.
21. COORDINATE ANY ALTERATION AND CHANGES TO THE ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY AND THE OWNER PRIOR TO COMMENCEMENT OF WORK.
22. PROVIDE ANY NECESSARY REPROGRAMMING OF EXISTING BUILDING FIRE ALARM SYSTEMS TO DISABLE FIRE ALARM DEVICES THAT ARE BEING DISCONNECTED AND REMOVED, AND FOR ANY NEW DEVICES THATARE ADDED, AS PART OF BID PRICE.
23. ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE DISRUPTION TO THESE OTHER SPACES. ENSURE THAT ALL CONDUITS, NEW OR EXISTING WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED IN ACCORDANCE WITH THE NEC.
24. REMOVE ALL ABANDONED WIRING AND CONDUIT THAT IS WITHIN THE PROJECT AREA PRIOR TO THE END OF CONSTRUCTION.

APPLICABLE CODES

APPLICABLE CODES:

ALL WORK UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE AND IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS INCLUDING THE REGULATIONS OF GOVERNING LOCAL, STATE, COUNTY AND OTHER APPLICABLE CODES. REFER TO SPECIFICATIONS FOR ADDITIONAL CODE REQUIREMENTS:

BUILDING CODES:
- INTERNATIONAL BUILDING CODE (2024)
- INTERNATIONAL ENERGY CONSERVATION CODE (2024)
- INTERNATIONAL FIRE CODE (2024)

ADDITIONAL CODES, STANDARDS, AND REQUIREMENTS
1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
2. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
3. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
4. REQUIREMENTS OF LOCAL POWER COMPANY.
5. THE AMERICANS WITH DISABILITIES ACT (ADA).
6. OWNER'S PUBLISHED DESIGN STANDARDS.
7. WIND LOAD 180MPH, EXPOSURE D.

ALL MATERIALS SHALL BE NEW AND FREE OF DEFECTS, AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LAB, AS DEFINED BY OSHA. WHERE NO LABELING OR LISTING SERVICE IS AVAILABLE FOR CERTAIN TYPES OF EQUIPMENT, TEST DATA SHALL BE SUBMITTED TO VALIDATE THAT EQUIPMENT MEETS OF EXCEEDS AVAILABLE STANDARDS.

NATIONAL FIRE PROTECTION (NFPA) STANDARDS:
- NFPA 10, 2022 EDITION, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
- NFPA 30, 2024 EDITION, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE.
- NFPA 37, 2024 EDITION, STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES.
- NFPA 54, 2024 EDITION, NATIONAL FUEL GAS CODE.
- NFPA 70, 2023 EDITION, NATIONAL ELECTRICAL CODE®.
- NFPA 72, 2022 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE.
- NFPA 75, 2023 EDITION, STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT.
- NFPA 90A, 2024 EDITION, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
- NFPA 90B, 2024 EDITION, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS.
- NFPA 101, 2024 EDITION, LIFE SAFETY CODE®.
- NFPA 110, 2022 EDITION, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.
- NFPA 111, 2022 EDITION, STANDARD ON STORED ELECTRICAL ENERGY EMERGENCY AND STANDBY POWER SYSTEMS.
- NFPA 780, 2023 EDITION, INSTALLATION OF LIGHTNING PROTECTION SYSTEMS

ELECTRICAL GENERAL NOTES

GENERAL REQUIREMENTS

1. THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY DETAIL OF CONSTRUCTION, METHODS, MATERIALS AND EQUIPMENT, OR EXACT LOCATIONS, ROUTING, ETC. THEY INDICATE THE RESULT TO BE ACHIEVED BY THE ASSEMBLAGE OF SEVERAL SYSTEMS FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. DO NOT SCALE THE CONTRACT DOCUMENTS. COORDINATE EXACT EQUIPMENT LOCATIONS WITH THE ARCHITECTURAL, CIVIL AND STRUCTURAL CONTRACT DOCUMENTS, AS WELL AS FIELD CONDITIONS, APPROVED SHOP DRAWINGS AND WORK OF ALL OTHER DIVISIONS/TRADES.
3. THE TERM "PROVIDE" USED IN THE CONTRACT DOCUMENTS INDICATES TO FURNISH AND INSTALL MATERIALS REQUIRED FOR CORRECT INSTALLATION OF A COMPLETE SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. UNLESS NOTED AS BEING EXCEPTANCE BY ELECTRICAL INDICATED ON THE CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE U.L. LISTED, AND SHALL BEAR A U.L. LABEL. WHERE NO U.L. LABEL OR LISTING IS AVAILABLE, THE MATERIAL SHALL BE LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
5. PROVIDE EXPERIENCED, QUALIFIED AND RESPONSIBLE SUPERVISION FOR ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE ARCHITECTENGINEER AND OWNER.
6. CARRY ALL INSURANCE REQUIRED TO PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THIS PROJECT.
7. GUARANTEE ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECTENGINEER AND OWNER, UNLESS NOTED OTHERWISE IN DIVISION 1. AT NO ADDITIONAL COSTS, PROVIDE THE CORRECTION OF ANY DEFECTS INCLUDING REPAIR OR REPLACEMENT.
8. INCLUDE ALL COSTS ASSOCIATED WITH PERMITS, LICENSES, FEES, INSPECTIONS, TESTING AND TEMPORARY POWER IN THE BID PRICE, UNLESS NOTED OTHERWISE.
9. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND GUIDELINES CONCERNING REMOVAL, HANDLING, DISPOSAL AND PROTECTION AGAINST ENVIRONMENTAL EXPOSURE OR POLLUTION. PROVIDE DOCUMENTATION OF SAID COMPLIANCE.
10. PROVIDE ELECTRONIC SUBMITTALS (PRODUCT DATA & SHOP DRAWINGS) FOR EACH MAJOR COMPONENT OF THE ELECTRICAL SYSTEM FOR REVIEW BY THE ARCHITECTENGINEER AND OWNER. MAJOR COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO, RACEWAYS, WIRES AND CABLES, DEVICES, LIGHT FIXTURES, SWITCHGEAR, PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, FIRE ALARM SYSTEM, ETC. ALL SUBMITTALS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS PRIOR TO SUBMITTING TO THE ARCHITECTENGINEER. ALLOW A MINIMUM OF TEN (10) BUSINESS DAYS FOR REVIEW BY ARCHITECTENGINEER, UNLESS NOTED OTHERWISE IN DIVISION 1.
11. THE ELECTRICAL PORTION OF THE CONTRACT DOCUMENTS ARE COORDINATED WITH THE DESIGN BASIS EQUIPMENT SPECIFIED BY DIVISION 26 AND OTHER DIVISIONS. WHERE THE CONTRACTOR ELECTS TO SUBSTITUTE A PRODUCT IN LIEU OF PROVIDING THE DESIGN BASIS, AND SAID SUBSTITUTION IS ACCEPTED BY THE ARCHITECTENGINEER AND OWNER, THE CONTRACTOR SHALL MAKE ALL CORRECTIONS TO THE ELECTRICAL SYSTEM NECESSARY IN ORDER TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION OF THE EQUIPMENT AT NO ADDITIONAL COSTS. WHERE THE CONTRACTOR'S DESIGN SUBSTITUTION LEADS TO THE NEED FOR THE ENGINEER TO REVISE THE CONTRACT DOCUMENTS, THE ENGINEER RESERVES THE RIGHT TO REQUEST COMPENSATION FROM THE CONTRACTOR FOR SAID SERVICES.
12. MAINTAIN A CURRENT AND ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THE PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE ARCHITECT/ ENGINEER FOR REVIEW AND THEN SUBMITTED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING SINGLE LINE DIAGRAM, POWER RISER DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM, SITE PLANS AND ALL ELECTRICAL FLOORPLANS, DETAILS, PANEL SCHEDULES, ETC.
13. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED AT THE SAME TIME AS THE SUBMITTALS FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
14. INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
15. INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
16. LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT ALL LOCAL MUNICIPALITIES AND UTILITIES AT LEAST 48 HOURS PRIOR TO DIGGING.
17. INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH ALL APPLICABLE STATUTES REGARDING MERCURY-CONTAINING DEVICES, AND WITH ALL LOCAL, STATE AND FEDERAL APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.
18. PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780. AND THE DIVISION 26 SPECIFICATIONS. UNLESS NOTED OTHERWISE.
19. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE.

COORDINATION:

1. VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN. AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
2. VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS NOTED OTHERWISE.
3. THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
4. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
5. WHERE WALLS ARE OF TILT-UP OR PRE-CAST CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN SUCH WALLSDURING THE SHOP DRAWING REVIEW PROCESS OF THE WALLS, PRIOR TO CONSTRUCTION OF THE WALLS.
6. LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGH-IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
7. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND VENDOR EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
8. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECTENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
9. CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTING BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
10. COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECTENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
11. ANY TEMPORARY INTERRUPTION OF POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
12. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
13. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANYLOSSES OR ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION TO THE SATISFACTION OF THE ARCHITECTENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECTENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
14. COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM THE ARCHITECTENGINEER PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK.

GROUNDING

1. FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.
2. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS THE SOLE EQUIPMENT GROUND.
3. WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.
4. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.

ELECTRICAL EQUIPMENT

1. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, WHETHER INDICATED ON THE CONTRACT DRAWINGS OR NOT.
2. TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, BUSWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
3. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
4. THE ELECTRICAL DEDICATED EQUIPMENT SPACE EXTENDING FROM FLOOR TO 6' ABOVE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, ARCHITECTURAL APPURTENANCES AND OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NEC.
5. PROVIDE A REINFORCED CONCRETE PAD, SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
7. ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED; PANEL BOX, COVER & DOOR WHERE SURFACE MOUNTED).
8. PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PANELBOARDS SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, EMERGENCY SWITCHBOARDS AND PANELBOARDS, LIGHTING PANELS SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM, TELECOMMUNICATIONS) EXITING THE BUILDING. PROVIDE MINIMUM 30A/3P BREAKER IN BRANCH CIRCUIT PANELBOARDS AND 60A/3P IN DISTRIBUTION PANELBOARDS OR SWITCHBOARDS, UNLESS NOTED OTHERWISE, OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECTION DEVICE.
9. PROVIDE ARC ENERG

SPECIAL NOTES

1. EXISTING WIC WAPA TRANSFORMER TO BE RELOCATED. EXISTING GENERATOR TO BE REMOVED.
2. EXISTING WAPA EQUIPMENT TO BE DISCONNECTED AND REMOVED.
3. DISCONNECT AND REMOVE EXISTING POLE AND WAPA OVERHEAD PRIMARY AFTER NEW WAPA UNDERGROUND PRIMARY IS OPERATIONAL.



SITE DEMO PLAN LEGEND

- = EXISTING UTILITY POLE
- = EXISTING INFRASTRUCTURE
- = EXISTING OVERHEAD LINE
- = EXISTING ROAD

NORTH

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GOVERNMENT OF THE U.S. VIRGIN ISLANDS · DEPARTMENT OF HUMAN SERVICES

GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS · DEPARTMENT OF HEALTH

IN PROGRESS DOCUMENTS FOR INTERIM REVIEW ONLY. NOT FOR REGULATORY APPROVAL, PERMIT, OR CONSTRUCTION.

SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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ELECTRICAL SITE DEMO PLAN

NOT FOR CONSTRUCTION

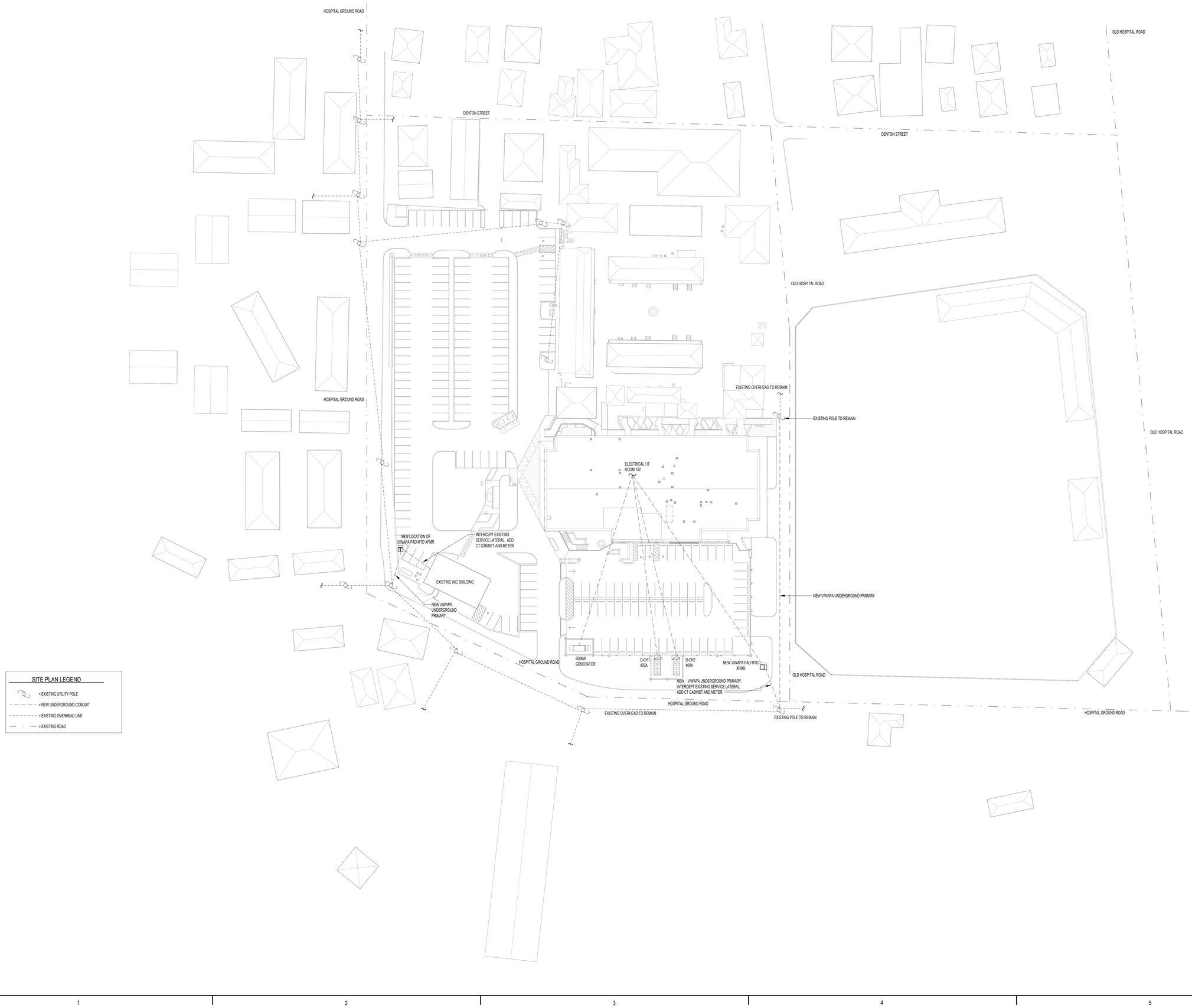
30% CDS

REVISIONS:

No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
OOR PROJECT NUMBER: 101918

SHEET NUMBER
XE100



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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

ELECTRICAL SITE PLAN

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REVISIONS:

No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

OOR PROJECT NUMBER
101918

SHEET NUMBER
E100

30% CDS

30% CDS

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St. Thomas, US. Virgin Islands 00802

POWER LOWER FLOOR PLAN

SUBMISSIONS:		
Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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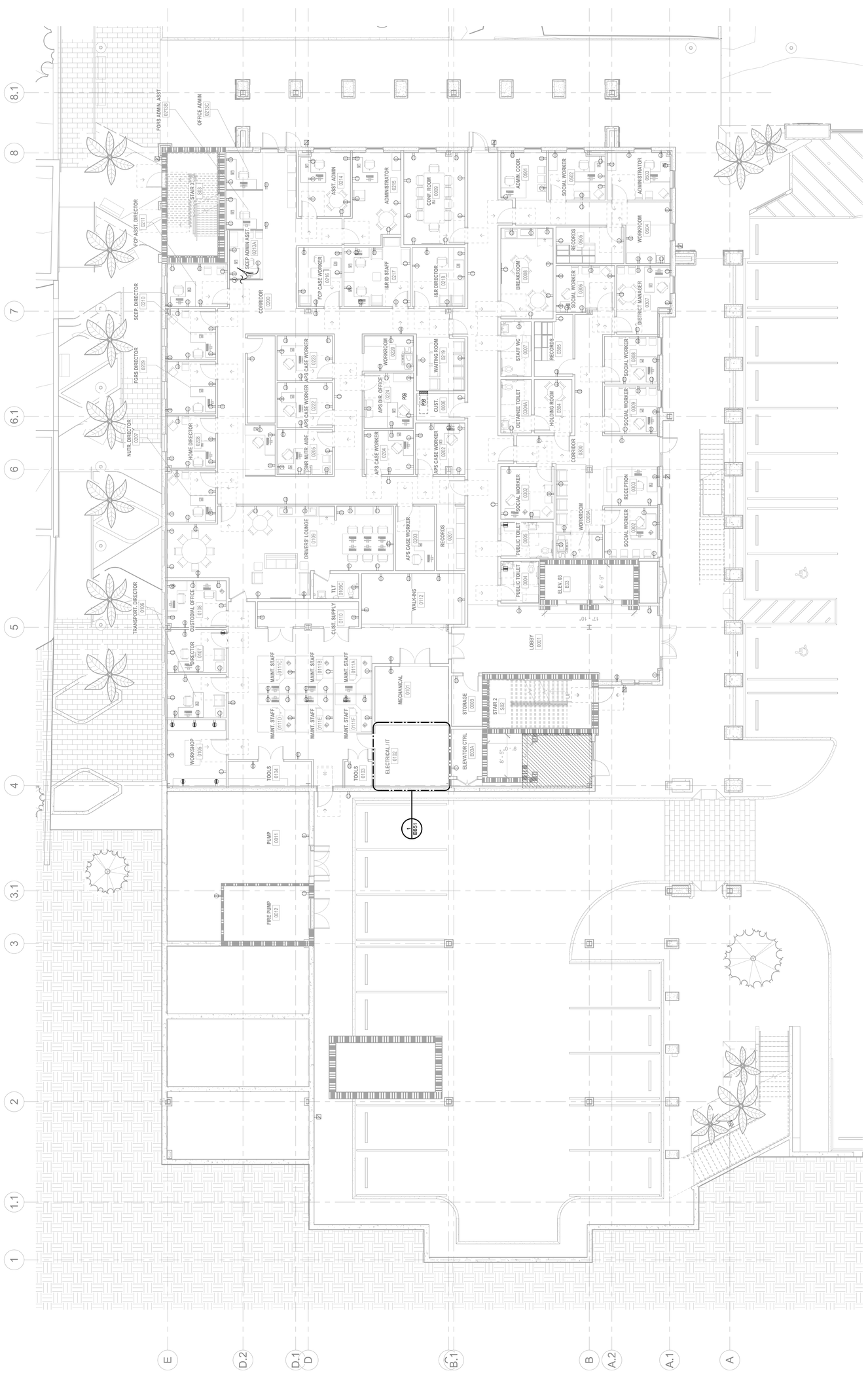
REVISIONS:		
No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
GSA PROJECT NUMBER: 101918

SHEET NUMBER: E101

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1 DHS LOWER - POWER
E101 1/8" = 1'-0"

NORTH

30% CDS

NOT FOR CONSTRUCTION

SUBMISSIONS:		
Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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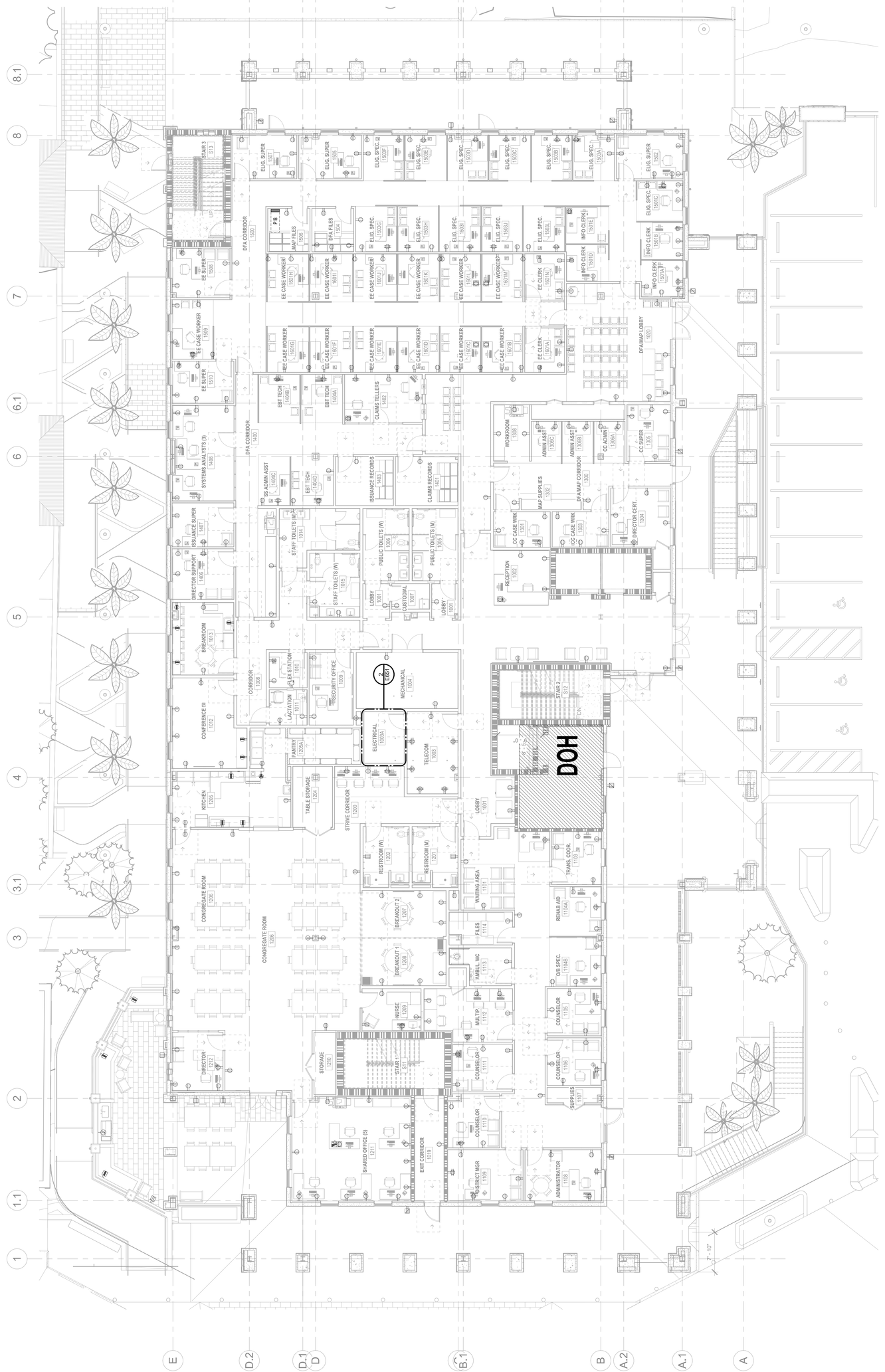
POWER MAIN FLOOR PLAN

REVISIONS:		
No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
GSA PROJECT NUMBER: 101918

SHEET NUMBER: E102

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1 DHS MAIN - POWER
E102 1/8" = 1'-0"

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D	90% CDs	
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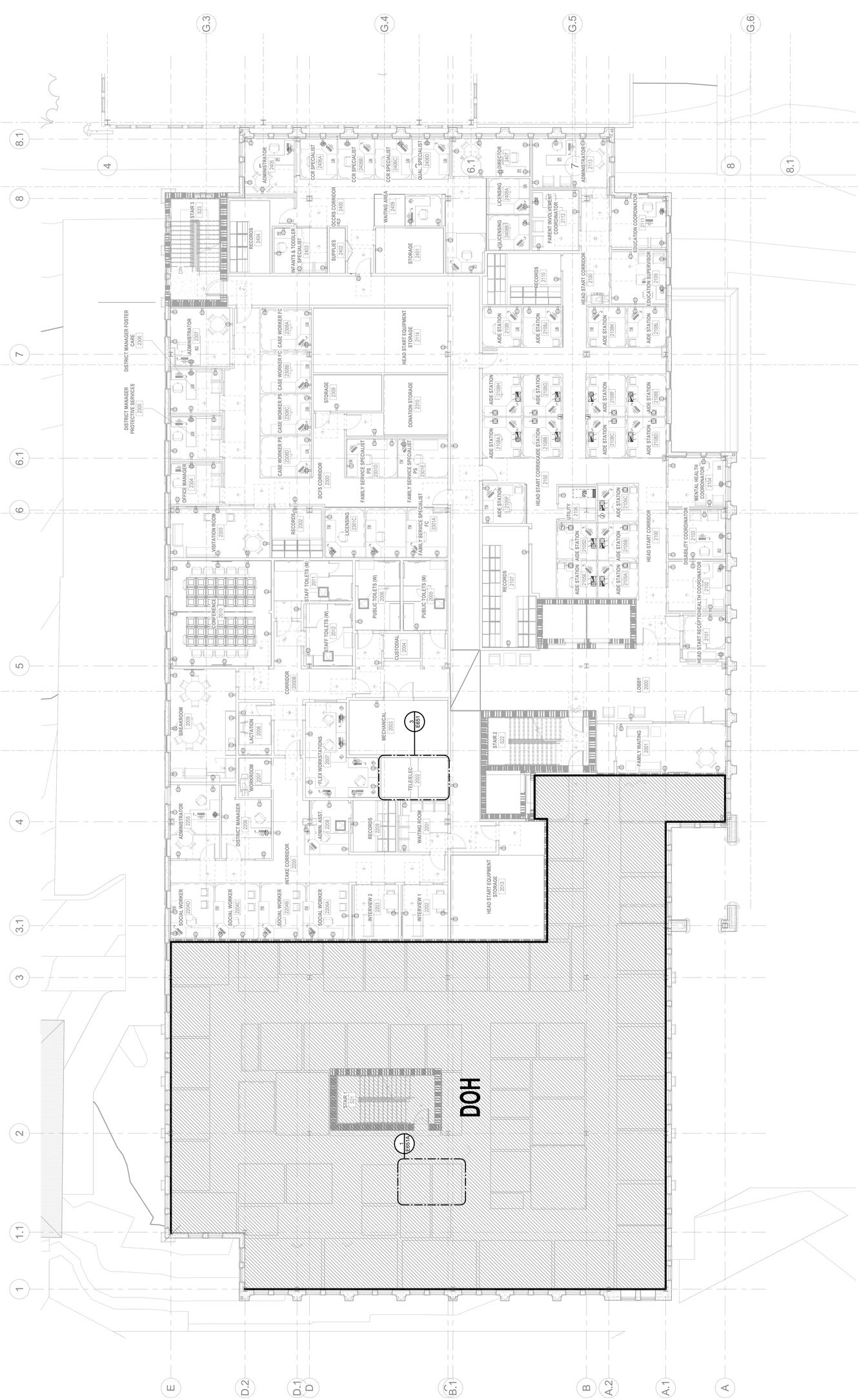
POWER SECOND FLOOR PLAN

REVISIONS:		
No.	Description	Date

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DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
GDR PROJECT NUMBER: 101918

SHEET NUMBER: E103

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1 DHS SECOND - POWER
E103 1/8" = 1'-0"

NORTH

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30% CDS

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SUBMISSIONS:		
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A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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POWER THIRD FLOOR PLAN

REVISIONS:		
No.	Description	Date

DRAWN BY:	KYLE MORMAN
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DATE:	4/2/2026
SLA JOB NUMBER	SLA 470-23-49
GSI PROJECT NUMBER	101918

SHEET NUMBER
E104

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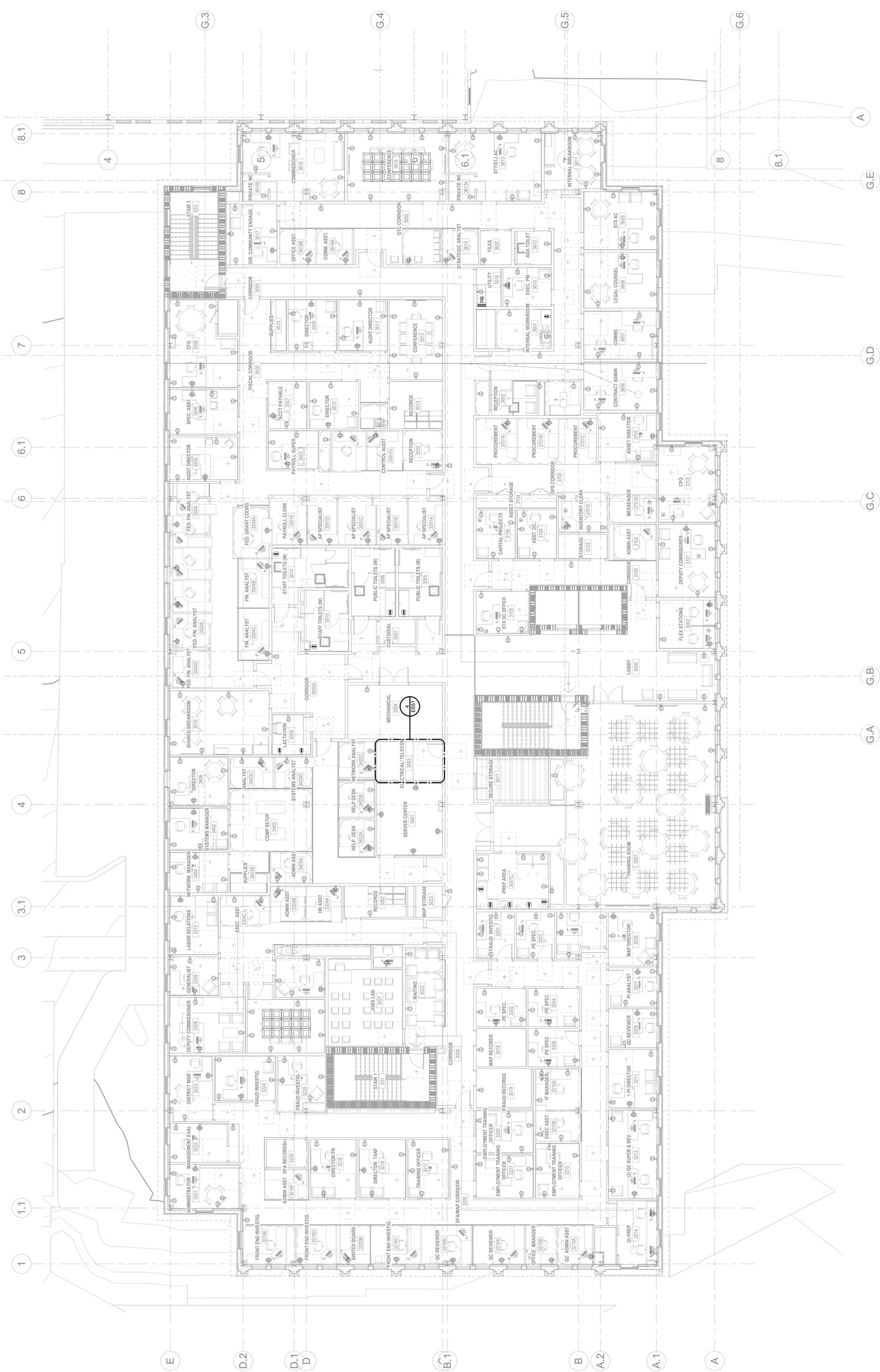
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GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS · DEPARTMENT OF PROPERTY & PROCUREMENT

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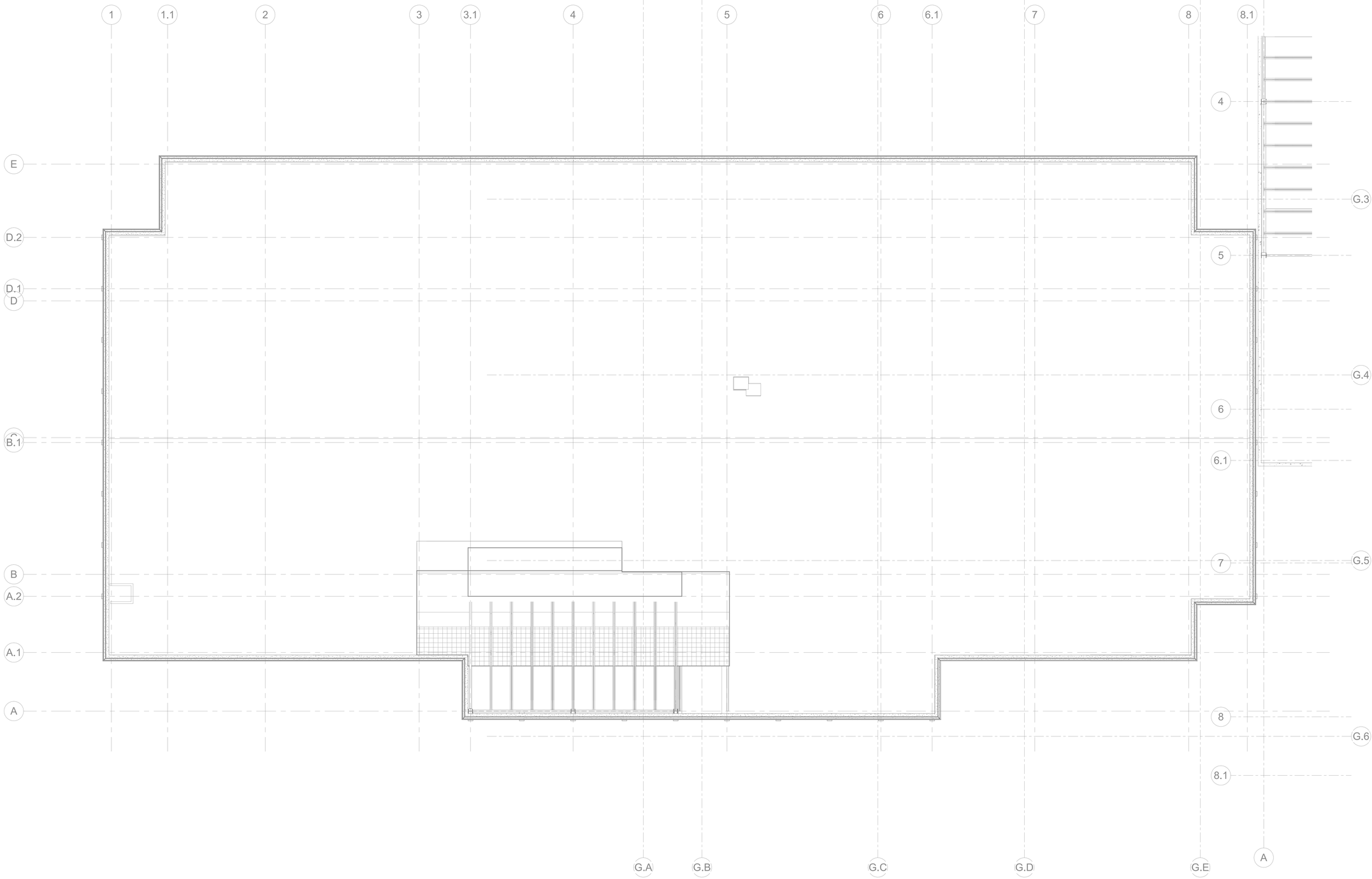


1 DHS THIRD - POWER
E104 1/8" = 1'-0"

NORTH

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1 DHS ROOF - POWER
E105 1/8" = 1'-0"

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

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POWER ROOF PLAN

REVISIONS:

No.	Description	Date

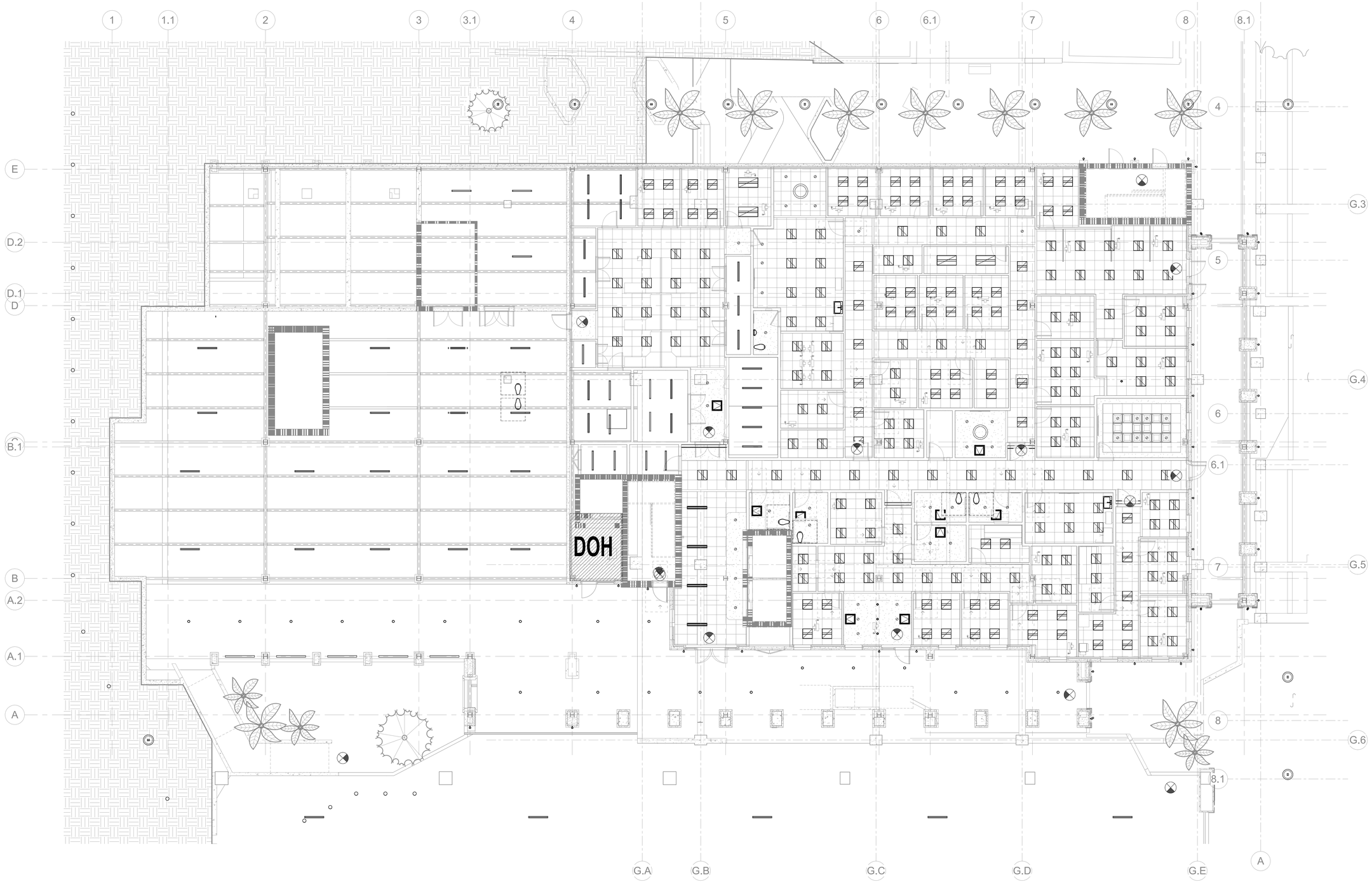
DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER
SLA 470-23-49
OOR PROJECT NUMBER
101918

SHEET NUMBER
E105

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30% CDS

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1 DHS LOWER - LIGHTING
1/8" = 1'-0"

NORTH

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A	Schematic	
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C	60% CDs	
D	90% CDs	
E	100% CDs	

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St. Thomas, US. Virgin Islands 00802

LIGHTING LOWER LEVEL RCP

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REVISIONS:

No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
ODR PROJECT NUMBER: 101918

SHEET NUMBER
E121

30% CDS

30% CDS

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	LIGHTING MAIN FLOOR RCP	

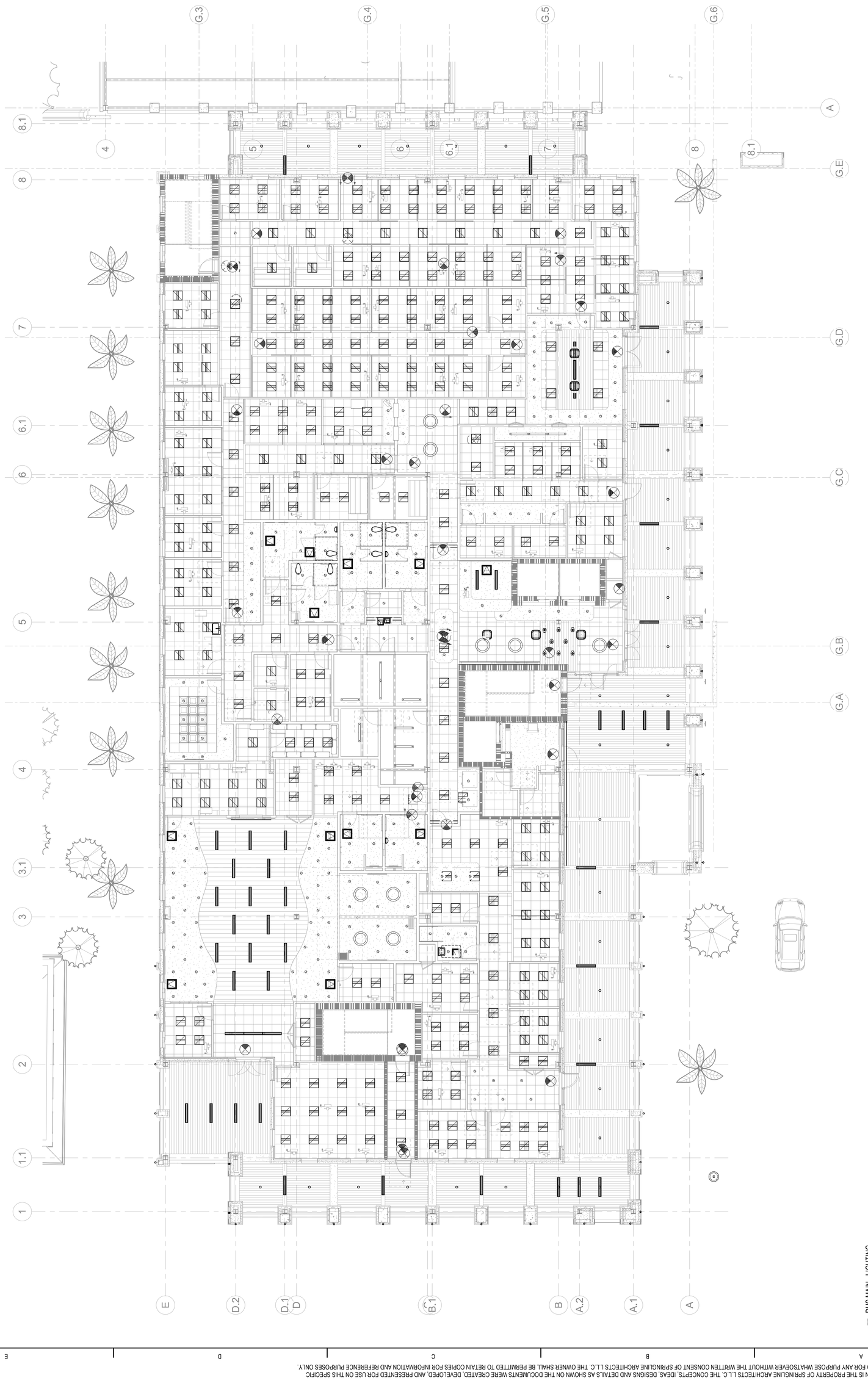
SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

REVISIONS:

No.	Description	Date

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OGR PROJECT NUMBER: 101918



1 DHS MAIN - LIGHTING
1/8" = 1'-0"

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30% CDS

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SUBMISSIONS:		
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D	90% CDs	
E	100% CDs	

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OFFICE OF DISASTER RECOVERY · GOVERNMENT OF THE U.S. VIRGIN ISLANDS

GOVERNMENT OF THE UNITED STATES VIRGIN ISLANDS · DEPARTMENT OF HEALTH

GOVERNMENT OF THE U.S. VIRGIN ISLANDS · DEPARTMENT OF PUBLIC WORKS

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Knud Hansen Building & Equipment - 470-23-49

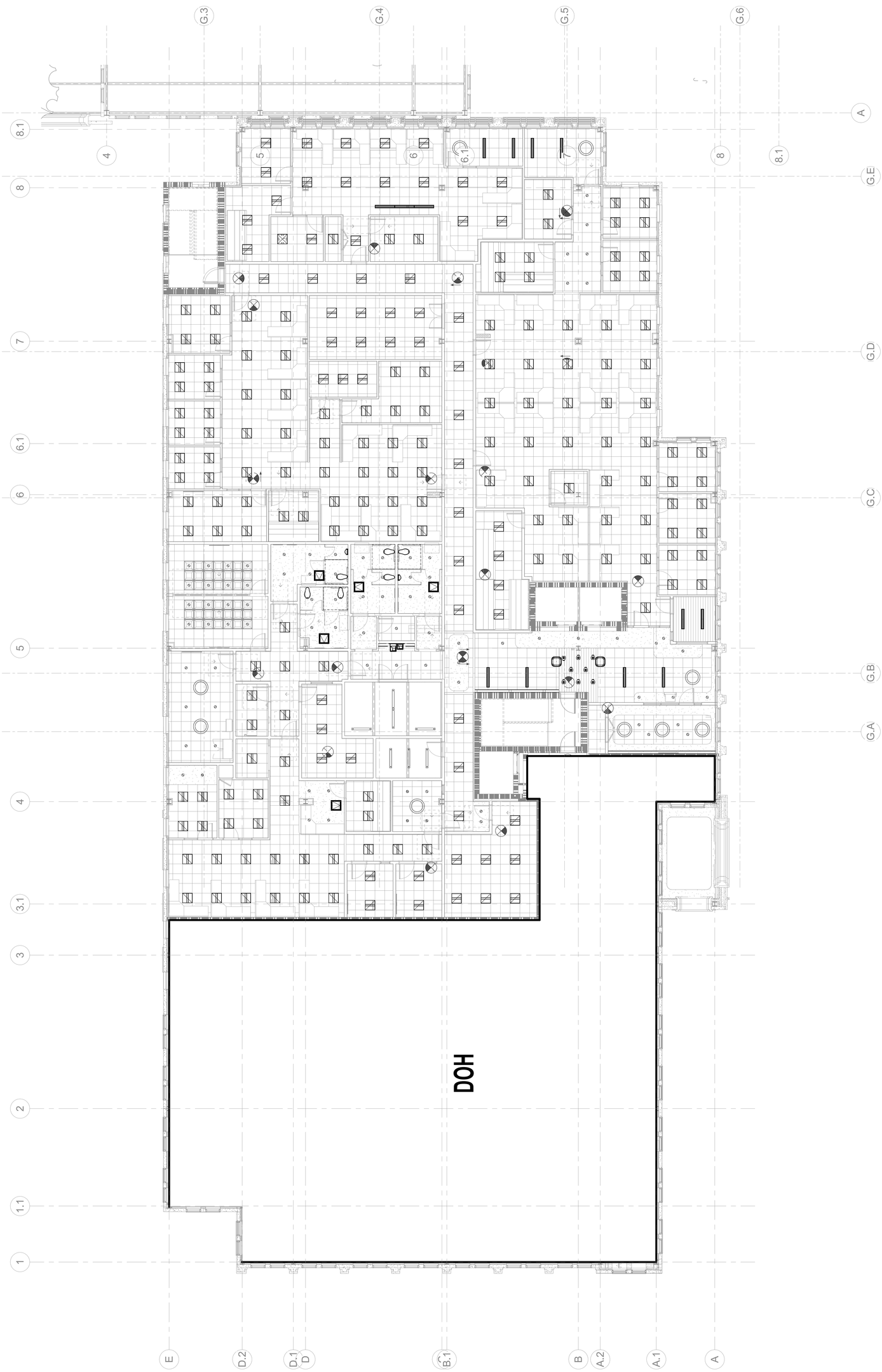
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

LIGHTING SECOND FLOOR RCP

REVISIONS:	
No.	Description Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
GSA PROJECT NUMBER: 101918

SHEET NUMBER: E123



1 DHS SECOND - LIGHTING
E123 1/8" = 1'-0"

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LIGHTING THIRD FLOOR RCP

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St. Thomas, US, Virgin Islands 00802

SUBMISSIONS:		
Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

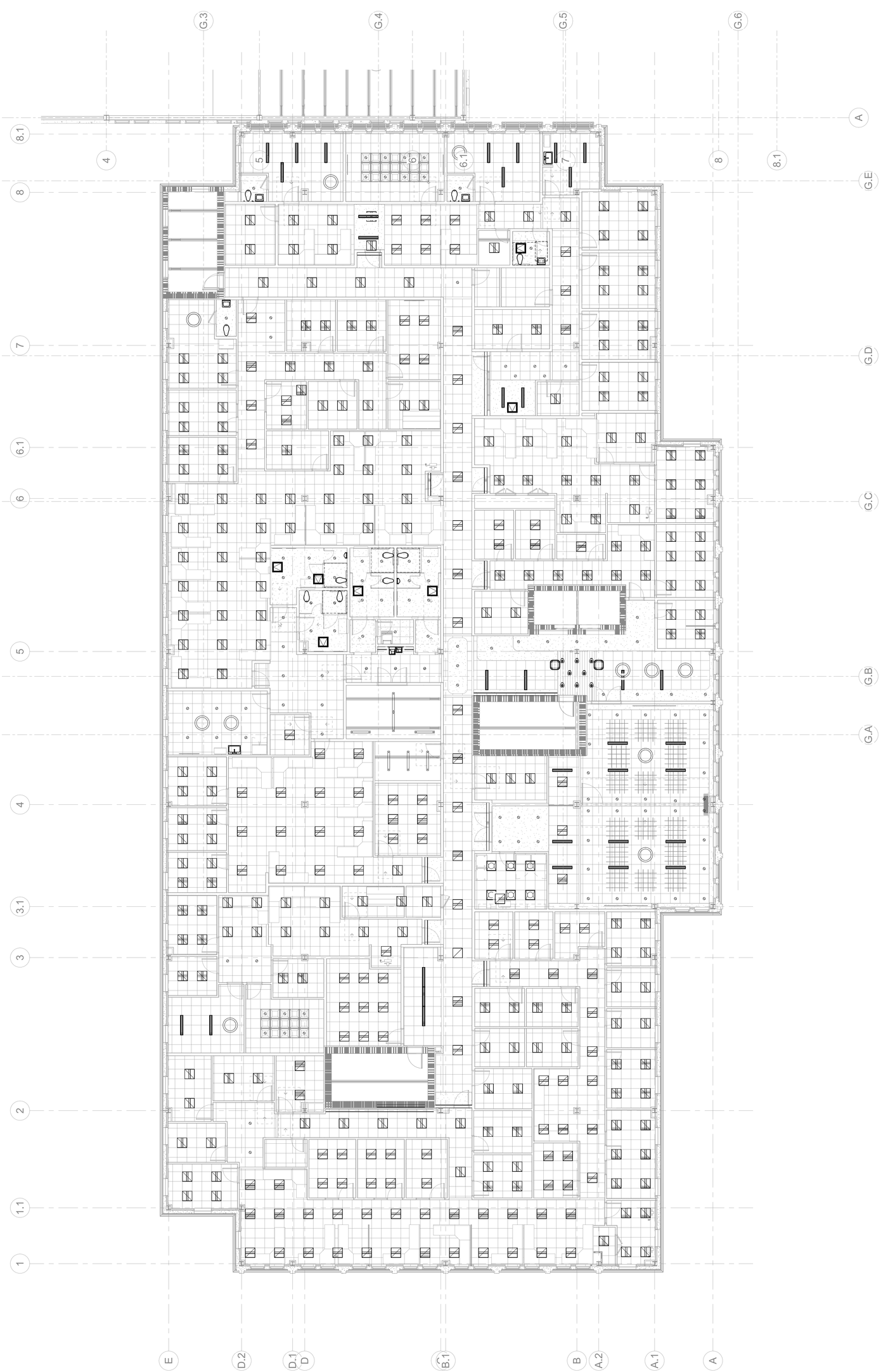
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REVISIONS:		
No.	Description	Date

DRAWN BY: KYLE MORMAN
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DATE: 4/2/2026
SLA JOB NUMBER: SLA 470-23-49
GSA PROJECT NUMBER: 101918

SHEET NUMBER: E124

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1 DHS THIRD - LIGHTING
E124 1/8" = 1'-0"

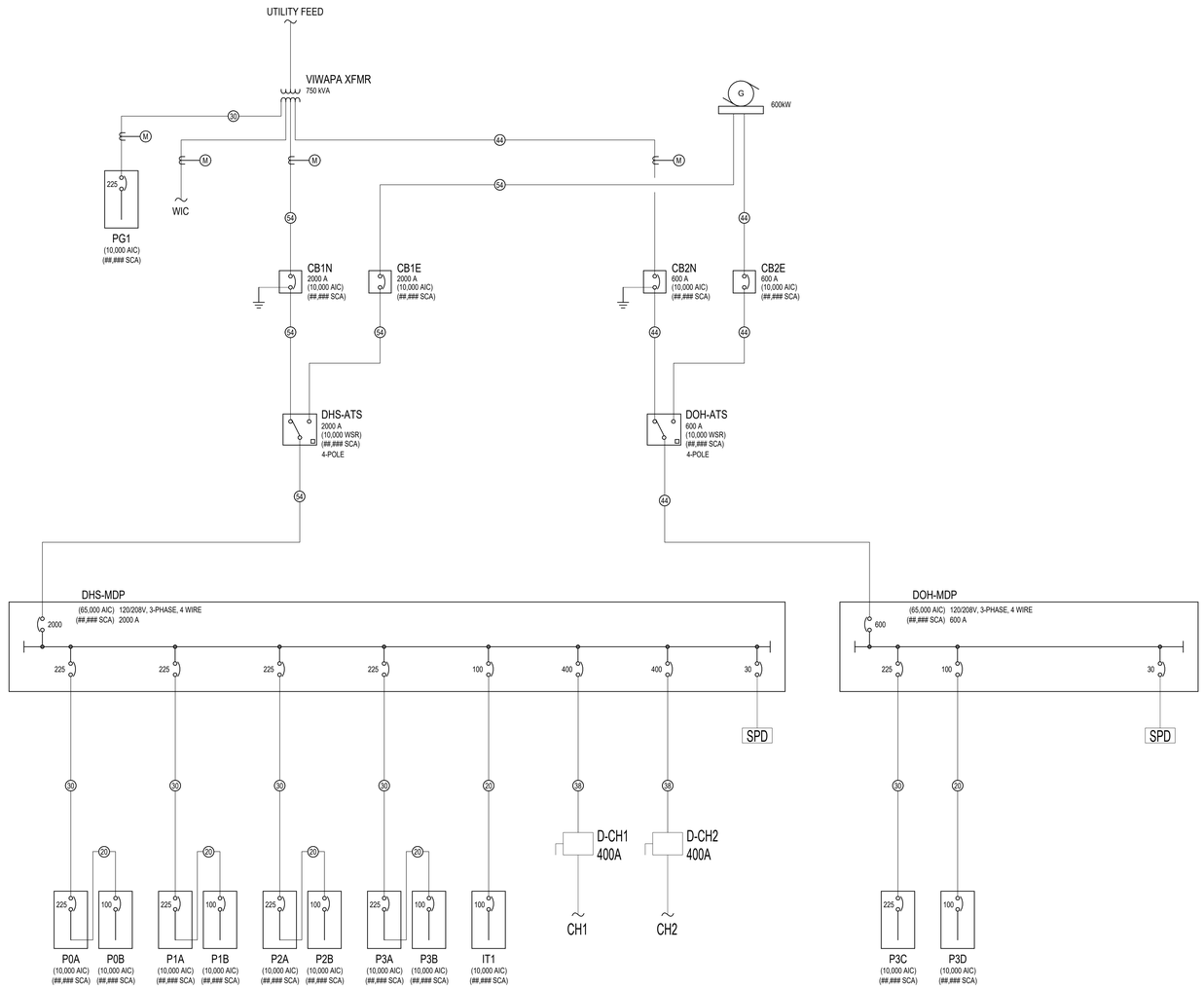
NORTH

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FEEDER SCHEDULE (CU)

DESIG.	CIRCUIT BREAKER AMP RATING/# POLES	NUMBER OF SETS	NUMBER OF CONDUCTORS	FEEDER SIZE		
				CONDUCTORS	EQUIP GRD	CONDUIT
1	15/3	1	3	#12 AWG	#12 AWG	3/4"
2			4			3/4"
3	20/3	1	3	#12 AWG	#12 AWG	3/4"
4			4			3/4"
5	30/3	1	3	#10 AWG	#10 AWG	3/4"
6			4			3/4"
7	40/3	1	3	#8 AWG	#10 AWG	1"
8			4			1"
9	50/3	1	3	#6 AWG	#10 AWG	1"
10			4			1"
11	60/3	1	3	#4 AWG	#10 AWG	1 1/4"
12			4			1-1/4"
13	70/3	1	3	#4 AWG	#8 AWG	1 1/4"
14			4			1-1/4"
15	80/3	1	3	#3 AWG	#8 AWG	1-1/4"
16			4			1-1/4"
17	90/3	1	3	#2 AWG	#8 AWG	1-1/2"
18			4			1-1/2"
19	100/3	1	3	#1 AWG	#8 AWG	1-1/2"
20			4			1-1/2"
21	125/3	1	3	#1 AWG	#6 AWG	1-1/2"
22			4			2"
23	150/3	1	3	#1/0 AWG	#6 AWG	1-1/2"
24			4			2"
25	175/3	1	3	#2/0 AWG	#6 AWG	2"
26			4			2"
27	200/3	1	3	#3/0 AWG	#6 AWG	2"
28			4			2"
29	225/3	1	3	#4/0 AWG	#4 AWG	2 1/2"
30			4			2-1/2"
31	250/3	1	3	#250 KCMIL	#4 AWG	3"
32			4			3"
33	300/3	1	3	#350 KCMIL	#4 AWG	3"
34			4			3"
35	350/3	1	3	#500 KCMIL	#3 AWG	3"
36			4			4"
37	400/3	1	3	#600 KCMIL	#3 AWG	4"
38			4			4"
39	450/3	2	3	#4/0 AWG	#2 AWG	2 1/2"
40			4			2-1/2"
41	500/3	2	3	#250 KCMIL	#2 AWG	3"
42			4			3"
43	600/3	2	3	#350 KCMIL	#1 AWG	3"
44			4			3"
45	800/3	3	3	#300 KCMIL	#1/0 AWG	3"
46			4			3"
47	1000/3	3	3	#400 KCMIL	#2/0 AWG	3"
48			4			3"
49	1200/3	4	3	#350 KCMIL	#3/0 AWG	3"
50			4			3"
51	1600/3	4	3	#600 KCMIL	#4/0 AWG	4"
52			4			4"
53	2000/3	5	3	#600 KCMIL	#250 KCMIL	4"
54			4			4"
55	3000/3	8	3	#500 KCMIL	#400 KCMIL	4"
56			4			4"
57	4000/3	9	3	#750 KCMIL	#500 KCMIL	4"
58			4			5"

2 FEEDER SCHEDULE (CU)
N.T.S



1 ELECTRICAL ONE-LINE DIAGRAM
1/2" = 1'-0"

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Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

ELECTRICAL ONE-LINE DIAGRAM

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REVISIONS:

No.	Description	Date

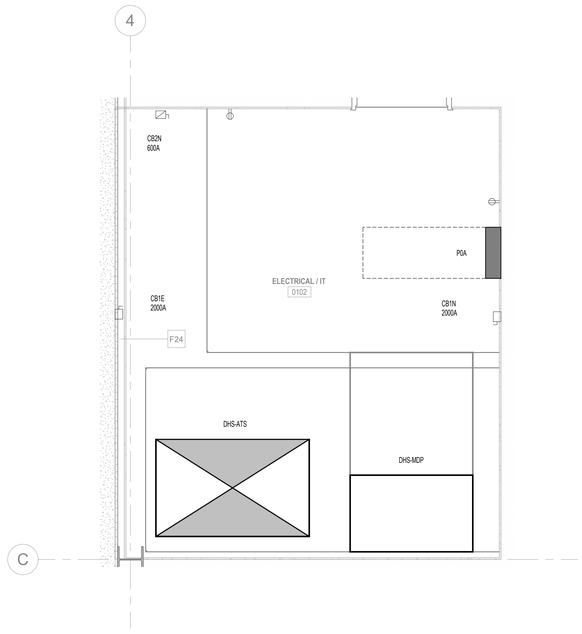
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CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

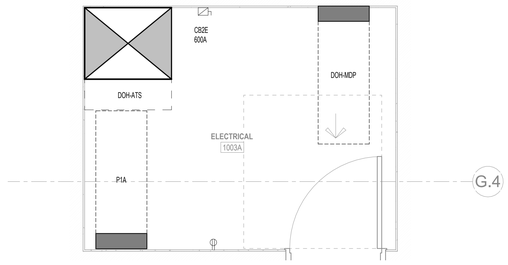
ODR PROJECT NUMBER
101918

SHEET NUMBER
E601

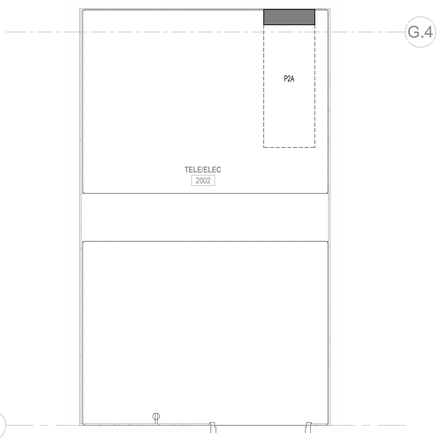
30% CDS



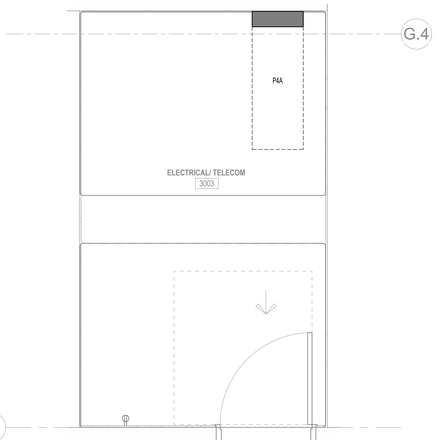
1 DHS ENLARGED - ROOM 0102
1/2" = 1'-0"



2 DHS ENLARGED - ROOM 1003A
1/2" = 1'-0"



3 DHS ENLARGED - ROOM 2002
1/2" = 1'-0"



4 DHS ENLARGED - ROOM 3003
1/2" = 1'-0"

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SUBMISSIONS:

Ref	Description	Date
A	Schematic	
B	30% CDs	04-03-2026
C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

ENLARGED ELECTRICAL PLANS

NOT FOR CONSTRUCTION

REVISIONS:

No.	Description	Date

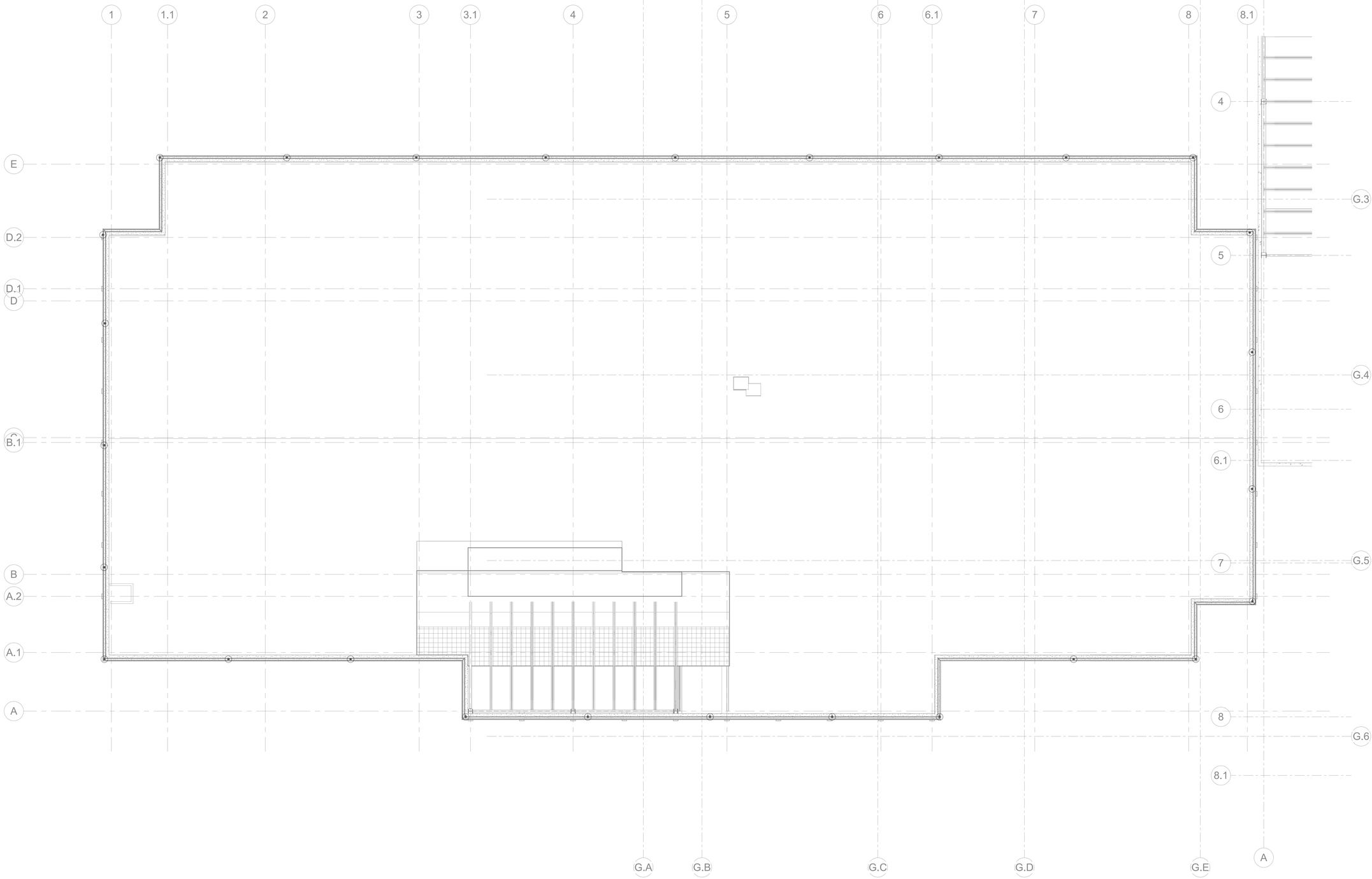
DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026

SLA JOB NUMBER
SLA 470-23-49

OCR PROJECT NUMBER
101918

SHEET NUMBER
E651

30% CDS



1 DHS ROOF - LIGHTNING PROTECTION
E801 1/8" = 1'-0"

NORTH

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C	60% CDs	
D	90% CDs	
E	100% CDs	

Knud Hansen Building & Equipment - 470-23-49
1303 Hospital Ground, Knud Hansen Complex
St. Thomas, US. Virgin Islands 00802

LIGHTNING PROTECTION ROOF PLAN

REVISIONS:

No.	Description	Date

DRAWN BY: KYLE MORMAN
CHECKED BY: Checker
DATE: 4/2/2026
SLA JOB NUMBER
SLA 470-23-49
OCR PROJECT NUMBER
101918

SHEET NUMBER
E801

NOT FOR CONSTRUCTION

30% CDS

TECHNOLOGY SYSTEMS GENERAL NOTES

1. REFER TO SPECIFICATION SECTION "TECHNOLOGY GENERAL PROVISIONS" FOR MORE INFORMATION ABOUT DRAWINGS AND BID DOCUMENTS.
2. MANY SYMBOLS USED IN THIS PROJECT HAVE A TYPE ASSOCIATED WITH THEM. SEE SHEETS WITH DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION ON THE DESCRIPTION OF EACH TYPE.
3. ALL CONDUIT FOR TECHNOLOGY SYSTEMS INDOOR ABOVE GRADE SHALL BE EMT AND ALL CONDUIT FOR BELOW GRADE SHALL BE PVC.
4. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS IN THIS PROJECT. PROVIDE AN APPROVED FIRE STOP SYSTEMS FOR EACH RACEWAY OR CABLE GOING THROUGH A RATED WALL. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR MORE INFORMATION.
5. WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110. COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
6. SYMBOLS USED ON THE TECHNOLOGY DRAWINGS ARE NOT THE SAME SIZE AS THE ACTUAL OBJECT BEING REPRESENTED. THEREFORE LOCATIONS OF THE SYMBOLS ON THE FLOOR PLANS ARE AN APPROXIMATION TO THE ACTUAL LOCATION OF THE DEVICE AND NEED TO BE CAREFULLY COORDINATED WITH OTHER ELEMENTS IN THE VICINITY. AS A GENERAL GUIDELINE:
   A. VOICE/DATA OUTLET FOR WORK-AREAS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET INDICATED IN ELECTRICAL DRAWINGS.
   B. TV OUTLETS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET SHOWN ON THE ELECTRICAL DRAWINGS.
   C. WHEN MULTIPLE TECHNOLOGY SYSTEMS OUTLETS ARE INDICATED NEXT TO EACH OTHER WITH SYMBOLS, THE SPACING BETWEEN OUTLETS SHALL BE CONSISTENT IF NO ELEVATION IS SHOWN ON THE DRAWINGS.
   D. WHEN INSTALLER IS NOT CERTAIN ABOUT SPECIFIC ADJACENCIES OF A DEVICE, THE QUESTION SHALL BE ASKED TO THE ENGINEER PRIOR TO INSTALLATION.
7. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
8. LOCATIONS OF FLOOR BOXES AND FLOOR PENETRATIONS SHALL NOT BE MEASURED FROM THIS SET OF DRAWINGS, INSTALLER SHALL REQUEST PRECISE LOCATIONS FROM ARCHITECT.
9. EACH VOICE/DATA RJ45 JACK SHALL BE CONNECTED TO A DEDICATED 4 PR CABLE.
10. THE RESPONSIBILITY OF RACEWAY INSTALLATION SHALL BE AS DIRECTED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR, BUT ALL RACEWAYS FOR TECHNOLOGY ARE TO BE INCLUDED IN THIS CONTRACT.
11. WHEN CONDUIT RUNS ARE INDICATED ABOVE GRADE OR BELOW GRADE ON THESE DRAWINGS, NOT EVERY SINGLE JUNCTION BOX (OR COMMUNICATIONS VAULT) REQUIRED IS INDICATED ON THE DRAWINGS. TYPICALLY ONLY END POINT LOCATIONS OR SPECIFIC PASS-THROUGH LOCATIONS WHERE THE ENGINEER DESIRES A BOX ARE SHOWN ON THE DRAWINGS. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR REQUIREMENTS THAT INDICATE ADDITIONAL JUNCTION BOXES OR COMMUNICATION VAULTS THAT SHALL BE PROVIDED UNDER THIS CONTRACT. SUCH REQUIREMENTS INCLUDE ADDITIONAL BOXES REQUIRED BECAUSE OF NUMBER OF CONDUIT BENDS OR CHANGES IN ELEVATION.
12. SOME SYMBOLS INCLUDED IN THE SYMBOL LEGEND MAY NOT BE USED IN THESE PROJECT DRAWINGS.
13. UNDER NO CONDITIONS, CONDUITS FOR LOW VOLTAGE FOR FLOOR BOXES SHALL BE DAISY CHAINED TOGETHER BETWEEN ADJACENT FLOOR BOXES. ALL CONDUITS FOR FLOOR BOXES SHALL BE HOME RUNS TO NEAREST ACCESSIBLE CEILING SPACE.
14. THIS SET OF DRAWINGS DOES NOT INDICATE ALL GROUNDING AND BONDING REQUIREMENTS FOR TECHNOLOGY SYSTEMS. REFER TO SPECIFICATION SECTION "GROUNDING FOR TELECOMMUNICATION SYSTEM" FOR ADDITIONAL REQUIREMENTS.
15. ALL CABLES FOR TECHNOLOGY SYSTEMS RUN UNDER SLAB OR BELOW GRADE IN CONDUITS STUBBING UP INSIDE THE TELECOM ROOM SHALL BE INDOOR/OUTDOOR RATED. FOR CONDUITS STUBBING UP IN OTHER LOCATIONS DIFFERENT FROM TELECOM ROOMS AND FURTHER THAN 50 FT. FROM A TELECOM ROOM, DO NOT USE INDOOR/OUTDOOR RATED CABLES.
16. GRAPHICS USED FOR EQUIPMENT IN ELEVATIONS AND CHANNELS (LINE DRAWINGS) DO NOT NECESSARILY REPRESENT THE PART NUMBER OF THE EQUIPMENT SPECIFIED. THE PART NUMBERS LISTED IN THE DRAWINGS AND SPECIFICATIONS ARE TO BE FOLLOWED FOR BASIS OF DESIGN, NOT THE GRAPHICS.
17. THE TECHNOLOGY DRAWINGS DO NOT SHOW ALL REQUIRED CONDUITS/RACEWAYS TO BE PROVIDED UNDER THIS CONTRACT. TYPICALLY CONDUIT SLEEVES SMALLER THAN 2" ARE NOT SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS "RACEWAYS FOR TECHNOLOGY" AND DRAWING DETAILS FOR ADDITIONAL RACEWAY REQUIREMENTS.
18. DEFINITION OF ACRONYMS USED IN THESE DRAWINGS:
   A. NIC (N.I.C.) - NOT IN CONTRACT
   B. OFE (O.F.E.) = OWNER FURNISHED EQUIPMENT. SEE RESPONSIBILITY MATRIX FOR MORE INFORMATION.
   C. DHI (D.H.I.) = DOOR HARDWARE INSTALLER
   D. USC (U.S.C.) = UNDER SEPARATE CONTRACT.
19. ALL REQUIRED WALL PENETRATIONS, EXISTING AND NEW, SHALL MAINTAIN THE NEW WALL RATING AFTER CABLING HAS BEEN INSTALLED OR REMOVED.
20. ALL SPEAKERS MOUNTED IN A CEILING TILE SHALL BE CENTERED IN THE CEILING TILE.

SECURITY SYSTEM GENERAL NOTES

1. SYMBOLS USED TO REPRESENT DEVICES SUCH AS CCTV CAMERAS, INTERCOM STATIONS, SECURITY WORKSTATIONS, CALL STATIONS, AND EMERGENCY PHONE STATIONS REQUIRE ONE (1) DATA DROP FOR SUCH DEVICE. THIS DATA DROP IS NOT SHOWN ON THE VOICE/DATA FLOOR PLANS, BUT SHALL BE PROVIDED FOLLOWING ALL REQUIREMENTS FOR VOICE/DATA DROPS INDICATED IN THE DRAWING DETAILS AND IN THE SPECIFICATION "STRUCTURED CABLING SYSTEM".
2. ANY DATA DROPS FOR SECURITY DEVICES EXCEEDING 295 FT. OF PERMANENT LINK DISTANCE TO THE TELECOM ROOM WHERE CAMERA WILL BE WIRED TO, SHALL BE WIRED WITH FIBER OPTICS FOR HORIZONTAL CABLING AND A 2 CONDUCTOR AWG-16 CL2P) CABLE. THE FIBER CABLE SHALL BE AS DESCRIBED IN SPECIFICATION "STRUCTURED CABLING SYSTEM". IF NO INDICATION IN SUCH SPECIFICATION, FIBER OPTIC CABLE SHALL BE A 2-STRAND OM1 CABLE WITH A SUITABLE JACKET FOR THE APPLICATION.
3. ALL CAMERAS, CARD READERS AND/OR KEYPADS DEDICATED FOR ELEVATOR FLOOR SELECTION CONTROL ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN TO HIGH THE ELEVATOR TRAVELS.
4. LOCATION OF SURVEILLANCE CAMERAS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID OBSTRUCTIONS IN THE FIELD OF VIEW. IT IS NOT REQUIRED FOR CAMERAS TO BE MOUNTED IN CENTER OF A CEILING TILE (OR CENTER OF A HALLWAY) IF THAT LOCATION CAUSES AN OBSTRUCTION IN THE FIELD OF VIEW OF THE CAMERA. ALL CAMERAS ARE TO BE INSTALLED AS TO MINIMIZE THE OBSTRUCTIONS IN THE FIELD OF VIEW WITHIN A 4' RADIUS OF THE SPECIFIED LOCATION. ALL CAMERA CABLING SHALL BE PROVIDED BY CONTRACTOR. ALL ROOF MOUNTS FOR CAMERAS SHALL BE PROVIDED BY CONTRACTOR. CAMERAS SHALL BE PROVIDED AND INSTALLED BY OWNER.
5. SURVEILLANCE CAMERAS INDICATED IN THE CORNER OF A ROOM SHALL BE INSTALLED AS CLOSE AS PHYSICALLY POSSIBLE TO THE CORNER OF THE ROOM TO GAIN THE BEST FIELD OF VIEW FOR THAT CAMERA.
6. EACH ACCESS CONTROLLED DOOR IN THE PROJECT HAS A DOOR IDENTIFIER SYMBOL THAT ASSOCIATES THE DOOR TO A CORRESPONDING ROUGH-IN DETAIL IN THE DRAWINGS AND A SPECIFIC FUNCTIONALITY OF THE DOOR IN THE SECURITY SPECIFICATIONS.

CAT. 6 CABLE COLOR LEGEND

1. THE FOLLOWING CABLE COLORS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR FOR THIS PROJECT:
   A. VOICE-DATA - BLUE
   B. VSS CAMERAS - GREEN
   C. ACS DOORS - YELLOW
   D. A-V SYSTEM - WHITE

OWNER GENERAL NOTES

1. ACCESS CONTROL SYSTEM SHALL BE LENEL/S2 TO MATCH EXISTING SYSTEM IN-USE BY CITY OF DELAND.
2. CONTRACTOR WILL PROVIDE AND INSTALL ALL VSS CAMERAS FOR PROJECT. CAMERAS INSTALLED BY CONTRACTOR SHALL BE COMPATIBLE WITH CITY OF DELAND'S EXISTING VMS "EXACQ-VISION".
3. CONTRACTOR WILL PROVIDE AND INSTALL ALL WAPS. CONTRACTOR SHALL PROVIDE BISCUIT-STYLE JACK WITH 10-FEET OF SLACK AT ALL WAP LOCATIONS SHOWN ON PLANS. WAPS SHALL BE RUCKUS #901-R550-US00 WITH POWER SUPPLY #902-1169-US00. NO EQUALS WILL BE ALLOWED FOR WAP MANUFACTURER IN ORDER TO MAINTAIN CONTINUITY WITH CITY'S WAP PROGRAM.
4. CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN OF A CELL-PHONE BI-DIRECTIONAL ANTENNA SYSTEM FOR INTERIOR OF THE BUILDING. THE CELL-PHONE BI-DIRECTIONAL ANTENNA SYSTEM SHALL REPEAT THE SIGNAL FOR ALL (3) MAJOR CARRIERS (AT&T / VERIZON - T-MOBILE).

BASIC MATERIALS

- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- CONDUIT CONTINUED
- CONDUIT SLEEVES (X/Y)
  X= QTY OF SLEEVES
  Y= SIZE OF CONDUITS SLEEVES PENETRATING WALL ABOVE CEILING SPACE.
  IF NO QUANTITY INDICATED USE AS MANY SLEEVES AS REQUIRED TO MATCH CROSS SECTIONAL AREA OF CABLE TRAY NEXT TO SLEEVE.
- TUBULAR RUNWAY, HUNG ABOVE CEILING OR AS NOTED
- CABLE TRAY (TYPE), HUNG ABOVE CEILING OR AS NOTED
- SURFACE MOUNTED ENCLOSED TECHNOLOGY SYSTEMS. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION
- JUNCTION BOX WALL MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- JUNCTION BOX CEILING MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- TELECOMMUNICATIONS GROUND VAULT. SEE DETAILS AND SPECS FOR MORE INFORMATION (X)
  X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TELECOMMUNICATIONS PULLBOX. SEE DETAILS AND SPECS FOR MORE INFORMATION (PB)
  X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TECHNOLOGY POLE. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION (TP)

GENERAL

- NEW EQUIPMENT
- EXISTING WORK AND/OR EQUIPMENT REFERENCE, SHOWN ON MULTIPLE DRAWINGS
- DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- DETAIL AND/OR SECTION REFERENCE
- CABLE ROUTING BOUNDARY
- FUTURE WORK

DRAWING NOTES AND DESIGNATIONS

- (X) DRAWING KEYED NOTES
- (X) CABLE ROUTING NOTES
- (X/X) DETAIL OR SECTION REFERENCE TAG

VOICE AND DATA SYSTEM

- (W,WP / XNYZ / U / +H) TELECOMMUNICATION OUTLET
  W= MOUNTING: (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER, P= POLE, L= FLOOR, R= RACEWAY, C=COUNTERTOP)
  N= NUMBER OF DATA CABLES IN THE FACEPLATE
  Y= NOT USED
  Z= NUMBER OF FIBER OPTIC STRANDS IN THE FACEPLATE
  U= USER(IF APPLICABLE)
  +H= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT. C=COUNTERTOP
  W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER OF OUTLET AND 12" FROM EDGE OF WALL.
  WP=WEATHERPROOF
  EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED
- (MECH / KY / U / +H) OUTLET FOR MECHANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION
  Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= IF NOT SHOWN, COORDINATE EXACT LOCATION WITH DEVICE
- (KY / U) CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING
  XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- (WAP / XY / U / +H) OUTLET FOR WIRELESS ACCESS POINT, WALL MOUNTED
  Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- (WAP / XY / U) OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING
  XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- (FYZ / LN) FLOOR BOX FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU/ FLOORBOX SCHEDULE FOR MORE INFORMATION
  F= FLOOR CONDITION: (C= CONCRETE TYPE, G= GRADE, R= RAISED FLOOR, W= WOOD)
  Y= DENOTES # OF GANGS (1,2,3…)
  Z= DENOTES PLATE TYPE (A,B,C…), A= NO AUDIO/VISUAL
  LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- (YZ / LN) POKE-THRU FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU & FLOOR BOX SCHEDULE FOR MORE INFORMATION
  Y= DENOTES POKE-THRU SIZE (4=4", 6=6" 8=8"….)
  Z= DENOTES PLATE TYPE (A,B,C…), A= NO AUDIO/VISUAL
  LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- (FF) FLOOR BOX USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (FP) POKE-THRU USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (AVD / XY / U / +H) AV BACKBOX, INSTALLED BEHIND DISPLAY/ CREDENZA RACK, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION
  G= DENOTES # OF GANGS
  XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
- (RSO / XY / U / +H) RECESS-IN-WALL STORAGE BOX, INSTALLED BEHIND DISPLAY, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION
  G= DENOTES # OF GANGS
  XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
- (PP) POWER POLE FOR COMBINED USE - TECHNOLOGY SYSTEMS AND POWER.
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (N-XX-Z) FIBER OPTICS ROUTING TAG FOR BACKBONE CABLING
  N= DENOTES CONNECTION TYPE (P=PRIMARY, S=SECONDARY)
  XX= DENOTES FIBER STAND QUANTITY
  Z= DENOTES RUN NUMBER
  REFER TO FIBER OPTICS RISER FOR MORE INFORMATION.

COVERAGE FOR IDF

COVERAGE OF EACH TELECOM ROOM. THE SHADED REGIONS REPRESENT THE MAXIMUM DISTANCE LOW VOLTAGE CABLES CAN BE RUN FROM EACH IDF.



COVERAGE FOR IT ROOM 1



COVERAGE FOR IT ROOM 2

AUDIO VISUAL EQUIPMENT

- (SX / YZ / W / +H) CEILING MOUNTED SPEAKER
  X= SPEAKER TYPE
  Y= SPEAKER ZONE
  Z= DENOTES SPEAKER # IN ZONE
  W= DENOTES SPEAKER WATTAGE TAP
  NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM
  WALL MOUNTED SPEAKER
  X= SPEAKER TYPE
  Y= SPEAKER ZONE
  Z= DENOTES SPEAKER # IN ZONE
  W= DENOTES SPEAKER WATTAGE TAP
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
  NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM
- (VC / +H) VOLUME CONTROL, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (FT) FLIP TOP DEVICE MOUNTED ON TABLE
- (SM / +H) SENS MICROPHONE FOR AMBIENT NOISE, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- (SM) SENS MICROPHONE FOR AMBIENT NOISE, CEILING MOUNTED
- (MX) MICROPHONE, DESK MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (MX / +H) MICROPHONE, WALL MOUNTED
  X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- (MX / X) MICROPHONE, CEILING MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (WM / +H) WIRELESS ANTENNA FOR WIRELESS MICRPHONE, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF
- (TS / X) TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, DESK MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
- (TS / X / +H) TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, WALL MOUNTED, INCLUDES BACK BOX
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (AV / X / +H) CAMERA FOR AV SYSTEM, WALL MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- (AV / X) CAMERA FOR AV SYSTEM, CEILING MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
- (ALT / +H) ASSISTED LISTENING TRANSMITTER, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET
- (RSS / X / +H) ROOM SCHEDULING PANEL, WALL MOUNTED, INCLUDES BACK BOX
  X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- AUDIO VISUAL DISPLAY (TT / XX / +YY)
  TT= DISPLAY TYPE WITH MOUNT
  XX= SCREEN SIZE
  YY= HEIGHT TO CENTER OF SCREEN
- INTERACTIVE WHITEBOARD (TT / XX / +YY)
  TT= DISPLAY TYPE WITH MOUNT
  XX= SCREEN SIZE
  YY= HEIGHT TO CENTER OF SCREEN
- OVERHEAD PROJECTOR WITH MOUNT (X / Y)
  X= TYPE
  Y= LENS THROW RATIO
- PULLDOWN PROJECTION SCREEN
  X= DIAGONAL DIMENSION IN INCHES
- MOTORIZED PROJECTION SCREEN
  X= DIAGONAL DIMENSION IN INCHES
- (S / LV) WALL SWITCH FOR MOTORIZED SCREEN
- (PX) PODIUM FOR AV EQUIPMENT, REFER TO DETAIL SHEETS
  X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- (AV / X / +H) AV PLATE OUTLET, REFER TO DETAIL SHEETS
  X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 1'-6" AFF
- (TV / X / U / +H) TELEVISION OUTLET, CORRDINATE ROUGH-IN WITH TV MOUNT INSTALLER, WALL MOUNTED
  X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFORMATION
  U=USER(IF APPLICABLE), THIS ONLY APPLIES TO DATA AND FIBER NOT COAX
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF

DISTRIBUTED ANTENNA SYSTEMS

- (A / X / Y / Z / +H) DAS ANTENNA, WALL MOUNTED
  X= ANTENNA TYPE
  Y= ANTENNA NUMBER
  Z= SPLITTER NUMBER THE ANTENNA IS ASSOCIATED WITH
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE
- (A / X / Y / Z) DAS ANTENNA, CEILING MOUNTED
  X= ANTENNA TYPE
  Y= ANTENNA NUMBER
  Z= SPLITTER NUMBER THE ANTENNA IS ASSOCIATED WITH
- (Z) DAS SPLITTER
  X= SPLITTER NUMBER
- ROOF ANTENNA, WALL MOUNTED
- (BDA / X) FIBER BDA
  X= FIBER BDA NUMBER
- (RP) DAS REPEATER

DISTRIBUTED ANTENNA SYSTEM GENERAL NOTES

1. DISTRIBUTED ANTENNA SYSTEMS (DAS) SHALL BE A DELEGATED DESIGN AND INSTALLATION OF A PUBLIC SAFETY SYSTEMS BOOSTING THE LOCAL FIRST RESPONDERS FREQUENCY SIGNALS WHERE THEY ARE DEFICIENT IN THE BUILDING. THIS SHALL INCLUDE ALL COMMISSIONING AND TESTING OF SYSTEM IN ACCORDANCE WITH THESE PLANS AND THE APPLICABLE SPECIFICATION SECTIONS. SYSTEM SHALL SUPPORT FREQUENCIES REQUIRED FREQUENCIES PROVIDED BY THE AHJ.
2. DAS SYSTEMS SHALL MEET NFPA 1221 REQUIREMENTS, AS WELL AS LOCAL/STATE/NATIONAL CODES, INCLUDING LATEST EDITION OF THE FLORIDA BUILDING CODE, ADMINISTRATIVE CODE & STATUTES.
3. DAS SYSTEM ALARMS SHALL REPORT TO THE FIRE ALARM CONTROL PANEL AND BE PROVIDED WITH A DAS DEDICATED ANNUNCIATOR PANEL LOCATED AT A MONITORED LOCATION.
4. DAS SYSTEM VERTICAL RISER SHALL BE DESIGNED TO A LEVEL 2 SURVIVIABILITY PATHWAY FOR CABLE AND ALL ROOMS OR SHAFTS CONTAINING DAS EQUIPMENT SHALL BE 2-HOUR RATED. ALL HORIZONTAL DAS CABLING LOCATED OUTSIDE OF THE 2-HOUR RATED CHASE/ROOMS SHALL BE IN METAL RACEWAY (MINIMUM IMC) WITH A MINIMUM LEVEL 1 SURVIVIABILITY. ALL DAS RACEWAYS SHALL HAVE A MINIMUM BEND RADIUS OF 12-INCHES. ALL DAS RELATED PULLBOXES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. WETHER INDICATED ON THE PLANS OR NOT, IN ORDER TO COMPLY WITH PULLING TENSION AND BEND RADIUS REQUIREMENTS ON CABLES, PER THE MANUFACTURER.
5. RADIO EQUIPMENT SHALL BE FCC COMPLIANT. REFER TO RELATED SPECIFICATIONS FOR ADDITIONAL INFORMATION OR REQUIREMENTS.
6. EXTERIOR ANTENNAS SHALL BE HIGH GAIN, VERTICALLY POLARIZED AND PERFORM IN THE AHJ REQUIRED OPERATING FREQUENCIES AS INDICATED ABOVE. REFER TO RELATED SPECIFICATIONS FOR ADDITIONAL INFORMATION OR REQUIREMENTS.
7. THE CONTRACTOR'S BID PRICE SHALL INCLUDE THE FOLLOWING:
   A. AN INITIAL 1ST RESPONDER RADIO COVERAGE SURVEY OF BUILDING, AFTER MAJORITY OF WALLS AND SYSTEMS ARE INSTALLED, SURVEY SHALL BE SUBMITTED TO AHJ FOR REVIEW AND APPROVAL
   B. IF AHJ DEEMS A BOOSTER SYSTEM IS REQUIRED FOR BUILDING, THE CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN OF THE DAS IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATION SECTION 280537.

ELECTRONIC SECURITY SYSTEM

- (CR) CARD READER, WALL MOUNTED
- (CK) CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED
- (BR) BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED
- (KP) KEYPAD, WALL MOUNTED
- (IP) WIRED IP LOCK, DOOR MOUNTED
- (WM) WIRELESS MORTISE LOCK, DOOR MOUNTED
- (WC) WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED
- (IK) INTRUSION ALARM KEYPAD
- (EM) ELECTRIC MORTISE LOCK OR ELECTRIC TRIM
- (DE) DELAYED EGRESS LATCH LOCK
- (EM) DELAYED EGRESS MAG LOCK
- (EC) ELECTRIC CYLINDRICAL LOCK
- (EL) ELECTRIC LATCH RETRACTION LOCK
- (EM) ELECTROMAGNETIC LOCK
- (EL) ELECTRONIC DETENTION LOCK
- (ES) ELECTRIC DOOR STRIKE
- (EO) ELECTRIC DOOR OPERATOR (ACTUATOR ARM)
- (DPS) DOOR POSITION SWITCH
- (BMS) BALANCED MAGNETIC SWITCH
- (PIM / +H) PIM MODULE FOR WIRELESS LOCKS, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- (AL / +H) ALARM, BLUE LIGHT, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- (LA / +H) LOCAL ALARM - HORN/STROBE, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- (SA / +H) SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- (AS / X / +H) ASSISTANCE STATION, WALL MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (AS / X) ASSISTANCE STATION (BLUE LIGHT), TOWER STATION
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE
- (IS / X / +H) INTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (IM / X) INTERCOM MASTER STATION, DESK MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE
- (IM / X / +H) INTERCOM MASTER STATION, WAI MOUNTED
  X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (CS / +H) CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (XXX) DOOR TYPE IDENTIFIER
  X= TYPE (A1,C3,B6…) REFER TO SECURITY DOOR DETAILS
- (A) DOOR RELEASE BUTTON, WALL MOUNTED
  X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, NO TYPE: REGULAR PUSH BUTTON
- DOOR RELEASE BUTTON, DESK MOUNTED
- (REX) REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME
- (GB / +H) GLASS BREAK SENSOR, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF
- (GB) GLASS BREAK SENSOR, CEILING MOUNTED
- (GP) GATE PEDESTAL
- (EO) ELECTRIC GATE OPERATOR
- (D / +H) DURESS PANIC BUTTON, WALL MOUNTED
  +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF
- (D) DURESS PANIC BUTTON, MOUNTED UNDER DESK
- (MD) MOTION DETECTOR, WALL MOUNTED, MOUN