



RSN:1755228 | PERMIT# 23-2389684 -LT

QTS DATA CENTERS - DEN1

DC1 GUARD BOOTH

BULLETIN #4

CORGAN

kw mission critical engineering



Kimley-Horn

ISSUES

1	05.18.2023	ISSUE FOR PERMIT
2	05.13.2022	ISSUE FOR CONSTRUCTION
3	10.28.2022	BULLETIN #1 REV 1
4		
5		
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REVISIONS

4	09.27.2022	BULLETIN #1
5	12.06.2022	BULLETIN #2
6	04.28.2023	BULLETIN #3
7	09.21.2023	BULLETIN #4



QTS DEN1 - DC1
GUARD BOOTH

1164 N. GUN CLUB ROAD
AURORA CO

CODE INFORMATION

PROJECT DATA AND CODE INFORMATION

PROJECT DATA

PROJECT NAME: QTS-DEN1- GB EFO
PROJECT ADDRESS: 1164 N. GUN CLUB ROAD
AURORA CO
OWNER: QTS DATA CENTERS

APPLICABLE CODES NOTE: INCLUDED IN SPECIFICATION SECTION 014100 REGULATORY REQUIREMENTS

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE (IBC)
ACCESSIBILITY CODE: 2009 ANSI A117.1 (ACCESSIBILITY)
ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE (NEC)
ENERGY CODE: 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
FIRE CODE: 2015 INTERNATIONAL FIRE CODE (IFC)
MECHANICAL CODE: 2015 INTERNATIONAL MECHANICAL CODE (IMC)
PLUMBING CODE: 2015 INTERNATIONAL PLUMBING CODE (IPC)
REGIONAL OR MUNICIPAL CODE: CITY OF AURORA UNIFIED DEVELOPMENT ORDINANCE (DECEMBER 2020)
FUEL GAS CODE: 2015 INTERNATIONAL FUEL GAS CODE (IFGC)

LIFE SAFETY INFORMATION

REFERENCE

USE OR OCCUPANCY CLASSIFICATION

OCCUPANCY: B, S-2 SECTION 311.3

TYPE OF CONSTRUCTION

CONSTRUCTION TYPE: TYPE IIB SECTION 506
BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM
INSTALLED IN ACCORDANCE WITH SECTION 903. FIRE ALARMED AND MONITORED

FIRE PROTECTION REQUIREMENTS

BEARING WALLS: INT./EXT. 0 HR. TABLE 601
NONBEARING WALLS: INT./EXT. 0 HR. TABLE 601
ROOF / CEILING: 0 HR. TABLE 601
FLOOR/ CEILING: 0 HR. TABLE 601
STRUCTURAL FRAME / COLUMNS: 0 HR. TABLE 601

RATED SEPARATIONS: -
BATTERY ROOMS: 1 HR
VERTICAL SHAFTS ROOMS: 1 HR

DESIGN LIMITATIONS

HEIGHT: 75' - 0" MAX. ALLOWED 11' - 0 1/2"
AREA: 1: UNLIMITED SECTION 507.4 153 SF

MEANS OF EGRESS

TRAVEL DISTANCE TO EXIT: S-2: 400'-0" MAX. ALLOWED 20' - 0" TABLE 1017.2
TOTAL OCCUPANT LOAD: S-2: 1/300 MAX. PROVIDED 1 TABLE 1004.1.2

EGRESS WIDTH PER OCCUPANT

0.3" STAIRS: 3" MIN. ALLOWED N/A PROVIDED
0.20" DOORS: 2" MIN. ALLOWED 36"

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

REQUIREMENT	MALE		FEMALE	
	# REQUIRED	# PROVIDED	# REQUIRED	# PROVIDED
WATER CLOSETS:	1:100	1	1	1
URINALS:	50% WC MAX	-	-	-
LAVATORIES:	1:100	1	1	1
SHOWERS:	-	-	-	-
UNISEX SHOWER:	-	-	-	-

*PLUMBING FIXTURE COUNT IS CALCULATED FOR OFFICE OCCUPANT LOAD WITH ADDITION OF 1 FIXTURE FOR MALE AND FEMALE FOR EACH FLOOR OF DATA CENTER

NON GENDER SPECIFIC

REQUIREMENT	# REQUIRED	# PROVIDED
SERVICE SINK:	1	1
DRINKING FOUNTAINS:	1:100	-

MINIMUM INSULATION REQUIREMENTS

CLIMATE ZONE	5B	
ROOF - INSULATION ABOVE DECK		R-30ci
EXTERIOR WALLS - MASS		R-11.4ci
EXTERIOR WALLS - METAL FRAMED		R-13 + R-13ci
FLOORS - SLAB ON GRADE		R-10 for 24" below
EXTERIOR DOORS - SWINGING		U-0.37
EXTERIOR DOORS - ROLL UP		R-4.75
EXTERIOR GLAZING - METAL FRAMING, ALL		U-0.38

Reviewed for Certificate of Occupancy. These documents DO provide sufficient information for Final Inspections to be requested from all required City departments. ALL Final City inspections must be completed and approved.



City of Aurora Building Division
Project: QTS DEN1 - DC1 - GUARD BOOTH
Address: 1164 N GUN CLUB RD
Occupancy Group: IBC B
Construction Type: VB
RSN: 1755228
Permit: 23-2389684-CM

PLEASE SEE ATTACHED STATE OF COLORADO APPROVED PLANS.

PROJECT TEAM

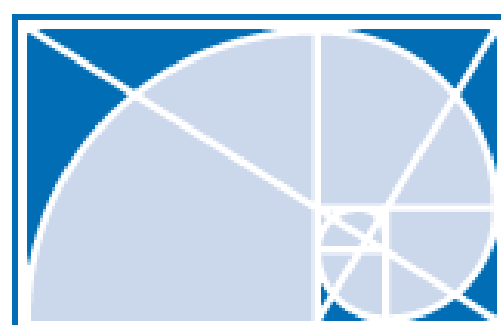
ARCHITECT
CORGAN ASSOCIATES

CORGAN

M E P
KW MISSION CRITICAL
ENGINEERING

kw mission critical engineering

STRUCTURAL
L.A. Fuess Partners,
Inc.



CIVIL
KIMLEY-HORN

Kimley-Horn

4582 South Ulster Street, Suite 1500,
Denver, CO 80237
T: 210-541-9166

COVER

JOB 20488.0100
DATE 03.28.2023
SHEET

G1 - A00

[illegible]

QTS-DEN1-DC1 GUARDBOOTH



KEYPLAN

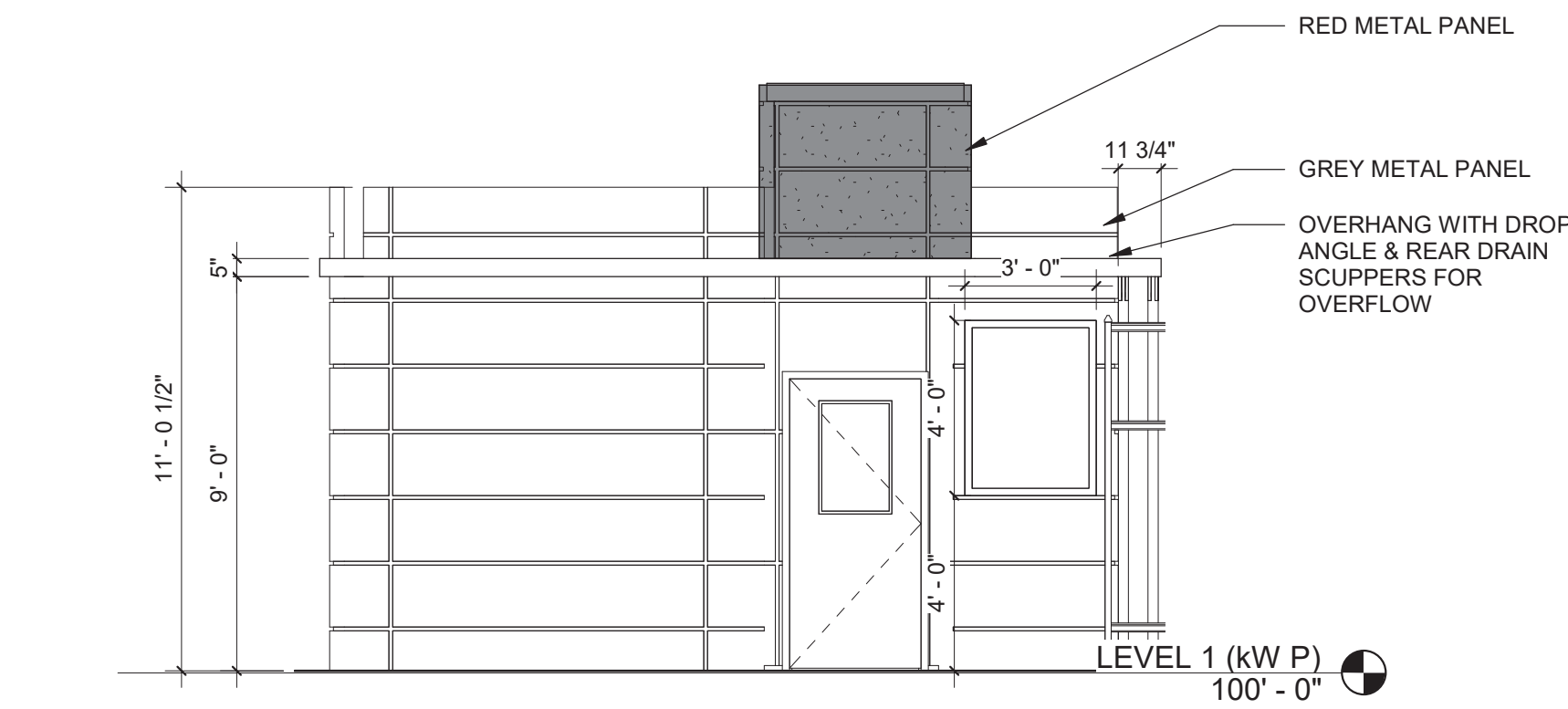
OVERALL SITE PLAN

JOB 20488.0100
DATE 12.03.2021
SHEET

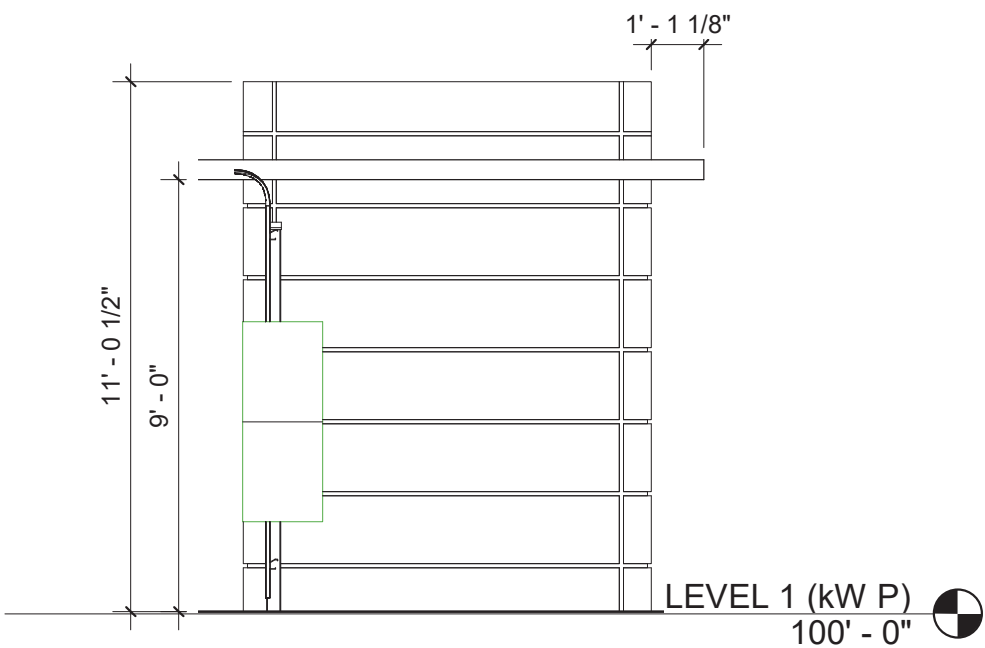
G1 - A01

NOT AN APPROVED SITE
PLAN. PROVIDED FOR
INFORMATION ONLY.

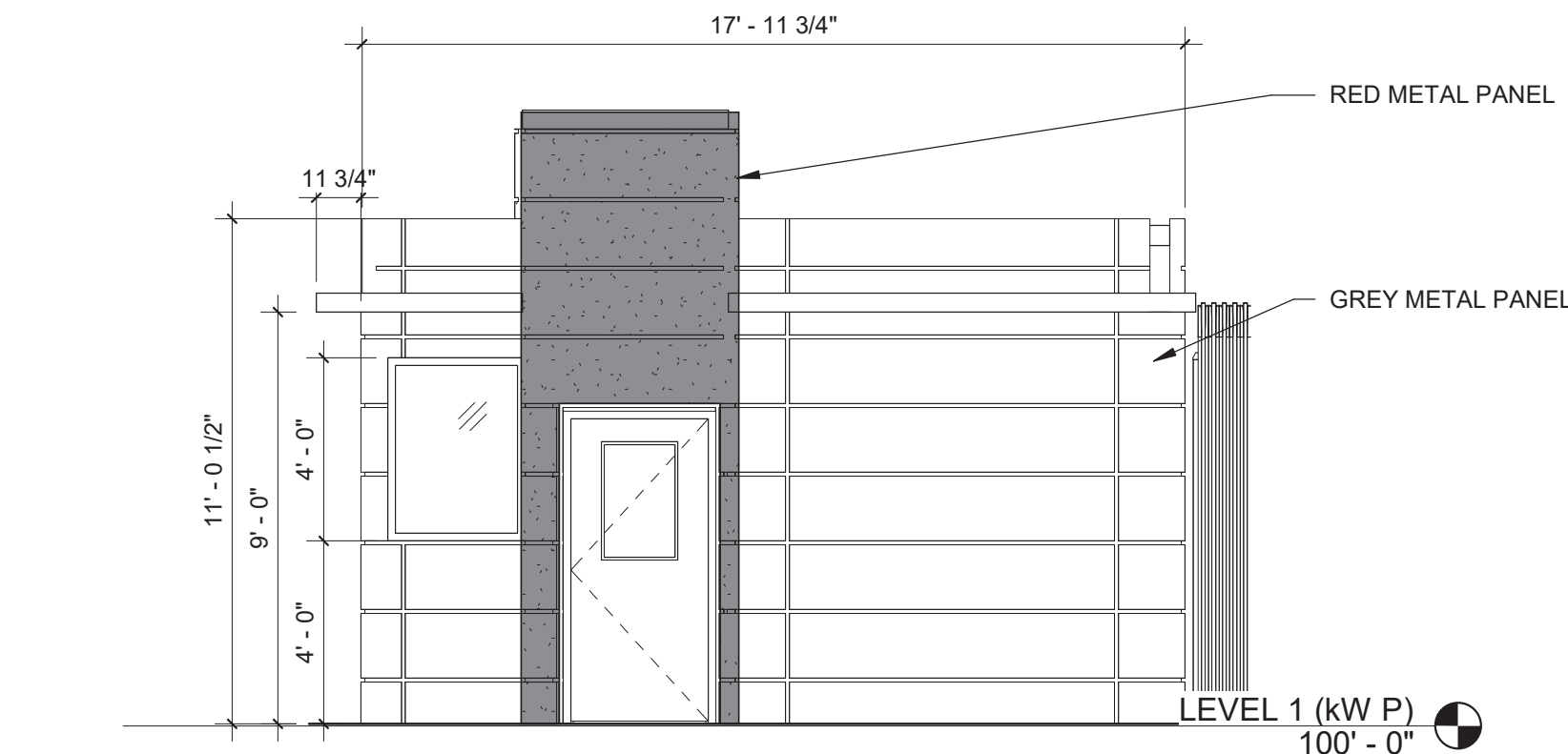
DOOR SCHEDULE - GUARDBOOTH														
DOOR NUMBER	ROOM		DOOR						FRAME			FR AME	HARDWARE SET	COMMENTS
	FROM ROOM	TO ROOM	WIDTH	HEIGHT	PANEL TYPE	MATERIAL	FINISH	THICKNESS	FRAME TYPE	MATERIAL	FINISH	SIDELIGHT 1 WIDTH		
LEVEL 1														
G100			3'-0"	6'-8"	C		PT	0'-1 3/4"	20	PT	PT			
G102			3'-0"	6'-8"	C		PT	0'-1 3/4"	20		PT			
G103			3'-0"	6'-8"	A		PT	0'-1 3/4"	20	PT	PT			



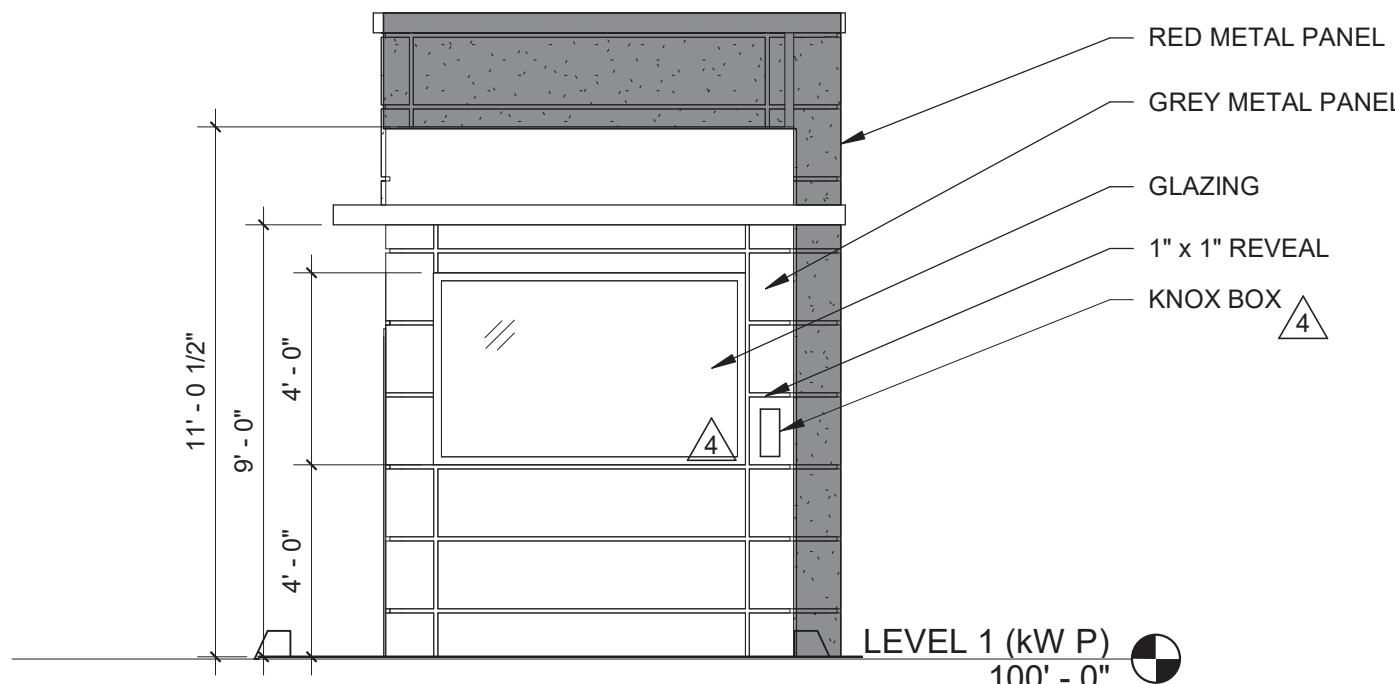
5 EXTERIOR ELEVATION - GUARD BOOTH - WEST
1/4" = 1'-0"



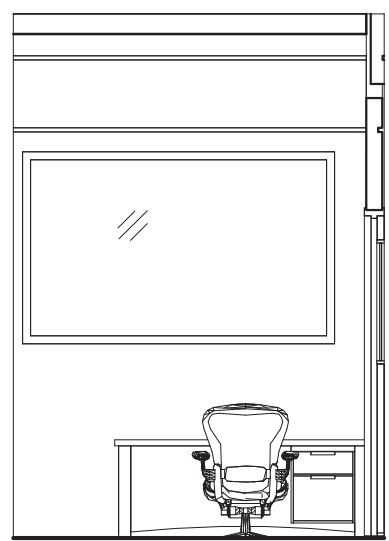
4 EXTERIOR ELEVATION - GUARD BOOTH - SOUTH
1/4" = 1'-0"



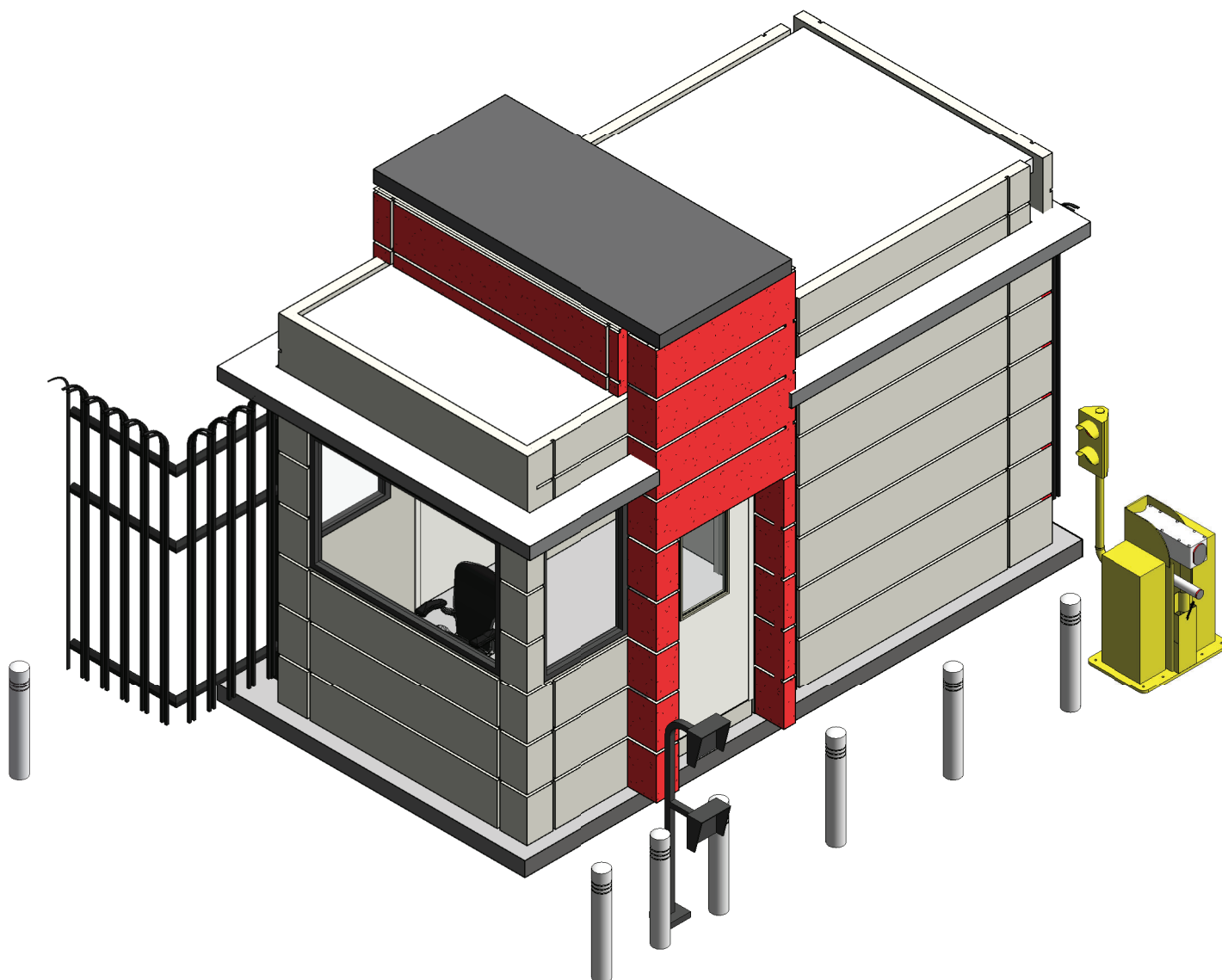
3 EXTERIOR ELEVATION - GUARDBOOTH - EAST
1/4" = 1'-0"



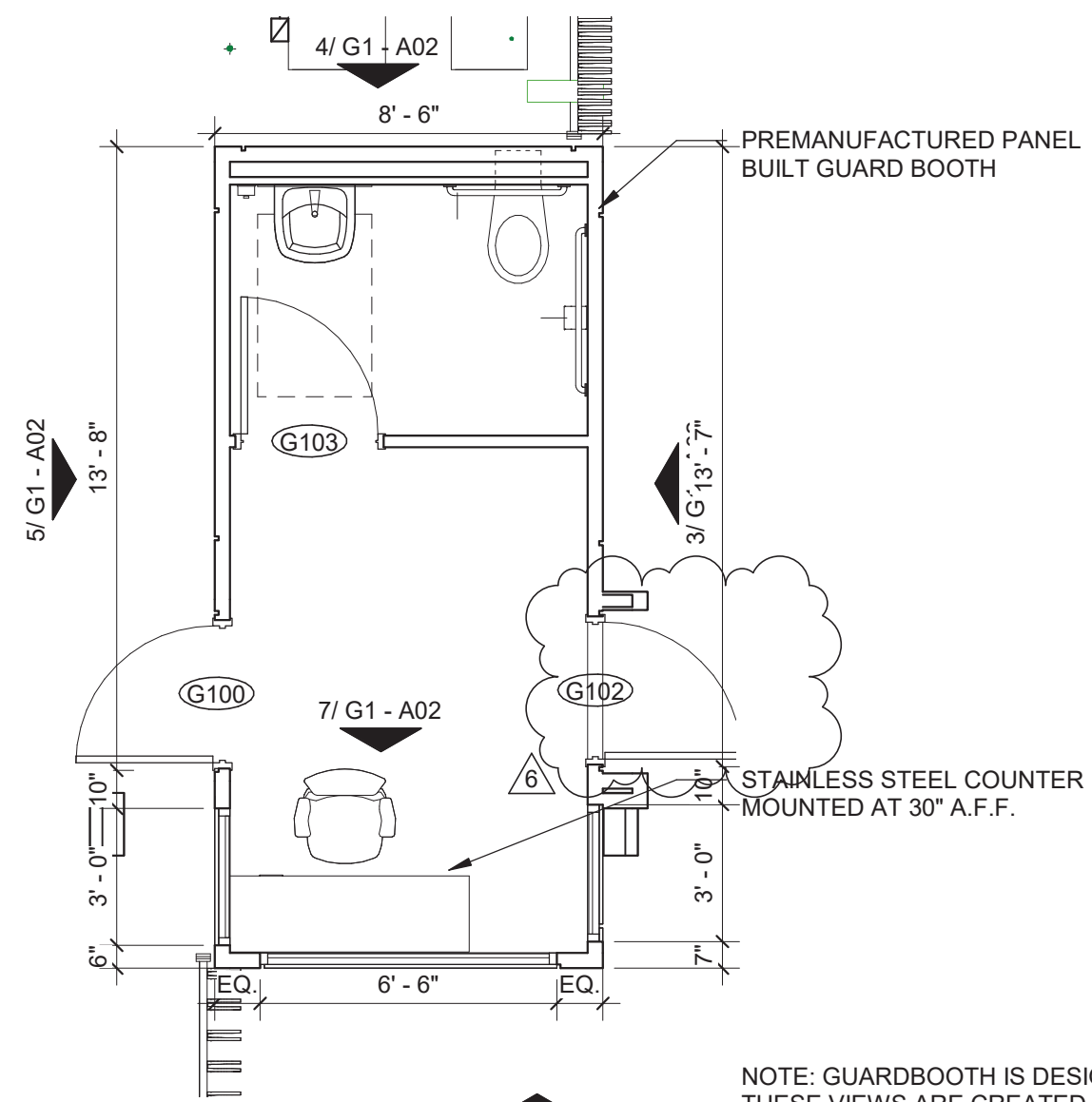
2 EXTERIOR ELEVATION - GUARD BOOTH - NORTH
1/4" = 1'-0"



7 INTERIOR ELEVATION - GUARD BOOTH
1/4" = 1'-0"



6 EXTERIOR - GUARD BOOTH
1/4" = 1'-0"



1 LEVEL ONE - OVERALL
1/4" = 1'-0"

NOTE: GUARDBOOTH IS DESIGN-BUILD.
THESE VIEWS ARE CREATED FOR
REFERENCE TO DESIGN INTENT ONLY.

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1	09.27.2022	BULLETIN #1
2	04.28.2023	BULLETIN #3

A	AMPERE(S)	EL	ELEVATION	IN	INCH/INCHES
AB	ALTERNATE	ELEC	ELECTRICAL	INAN	INCANDESCENT
AC	ABOVE	ELU	EMERGENCY LIGHT UNIT	INSUL	INSULATION
AC/AS	ALTERNATING CURRENT DEVICES MOUNTED AT SUSPENDED CEILING AND AT STRUCTURE ABOVE	EMER	EMERGENCY	INV	INVERT
AF	AMPERE FRAME	EMH	ELECTRICAL MANHOLE	IPS	INTERRUPTIBLE POWER SUPPLY
AFD	ADJUSTABLE FREQUENCY DRIVE	EMT	ELECTRICAL METALLIC TUBING	IR	PASSIVE INFRARED
AFB	ABOVE FINISHED FLOOR	ENCL	ENCLOSURE	IT	INFORMATION TECHNOLOGIES
AFG	ABOVE FINISHED GRADE	EO	ELECTRONICALLY OPERATED	JB	JUNCTION BOX
AHU	AIR HANDLING UNIT	EPMS	ELECTRICAL POWER MONITORING SYSTEM	JCT	JUNCTION
AIC	AMPERE INTERRUPTING CAPACITY	EPO	EMERGENCY POWER OFF	KA	KILO AMPERE(S)
AL	ALUMINUM	EPR	ETHYLENE PROPYLENE RUBBER INSULATION	KMIL	THOUSAND CIRCULAR MIL(S)
ALT	ALTERNATE	EQUIP	EQUIPMENT	KILO	THOUSAND
ANN	ANNUNCIATOR	ELH	ELECTRIC UNIT HEATER	KV	KILOVOLT(S)
ASD	ADJUSTABLE SPEED DRIVE	EW	ELECTRIC WATER COOLER	KVA	KILOVOLT-AMPERE(S)
ASSD	AIR SAMPLING SMOKE DETECTION	EWL	ELECTRIC WATER HEATER	KVAR	KILOVARI(S)
ASTS	AUTOMATIC STATIC TRANSFER SWITCH	EXIST	EXISTING	KW	KILOWATT(S)
AT	AMPERE TRIP	EXT	EXTERIOR	LHD	LONG TIME DELAY DETECTOR
ATS	AUTOMATIC TRANSFER SWITCH	F	FUSE(D)	LJ	LONG TIME INSTANTANEOUS
AUTO	AUTOMATIC	FACF	FIRE ALARM	LNC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
AUX	AUXILIARY	FACF	FIRE ALARM CONTROL PANEL	LNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
AWG	AMERICAN WIRE GAUGE	FB	FEEDER BREAKER	LSS	LIFE SAFETY SYSTEMS
BATT	BATTERY	FBO	FURNISHED BY OTHERS	LT(S)	LIGHT(S)
BC/BF	DEVICES MOUNTED BELOW SUSPENDED CEILING AND BELOW RAISED FLOOR	FCS	FACILITY CONTROL SYSTEM	LTG	LIGHTING
BF	BELOW FINISHED FLOOR	FCU	FAN COIL UNIT	LV	LOW VOLTAGE
BFF	BELOW FINISHED FLOOR	FDR	FIBER DISTRIBUTED DATA INTERFACE	MA	MILLIAMPERE(S)
BFG	BELOW FINISHED GRADE	FEEDR	FEEDER	MAINT	MAINTAINED
BKR	BREAKER	FF	FINISHED FLOOR	MAN	MANUAL
BLDG	BUILDING	FG	FINISHED GRADE	MATL	MATERIAL
BOC	BOTTOM OF CONDUIT	FIXT	FIXTURE	MAX	MAXIMUM
BOCB	BOTTOM OF CABLEBUS	FLA	FULL LOAD AMPERE(S)	MB	MAIN BOARD
BOCT	BOTTOM OF CABLE TRAY	FLEX	FLEXIBLE	MBB	MAIN BYPASS BOARD
BOCB	BOTTOM OF DUCTBANK	FLR	FLOOR	MC	METAL CLAD CABLE
BOH	BOTTOM OF RACK	FLUOR	FLUORESCENT	MCB	MAIN CIRCUIT BREAKER
BOU	BOTTOM OF UNISTRUT	FMS	FACILITY MANAGEMENT SYSTEMS	MCC	MOTOR CONTROL CENTER
C	CONDUIT	FO	FIBER OPTIC	MCCB	MOLDED CASE CIRCUIT BREAKER
C-BUS	CABLEBUS	FOC	FACILITY OPERATION CENTER	MCR	MAIN COMMUNICATIONS ROOM
CAB	CABINET	FT	FOOT/FEET	MCS	MOLDED CASE SWITCH
CB	CIRCUIT BREAKER	FTR	FURNITURE	MDP	MAIN DISTRIBUTION PANEL
CKT	CIRCUIT	FURN	FURNISH	MECH	MECHANICAL
CL	CENTER LINE	GRND	GROUND	MFLN	MILLION
CLG	CEILING	GALV	GALVANIZED	MEZZ	MEZZANINE
COL	COLUMN	GEN	GENERATOR	MFR	MANUFACTURER
COMM	COMMUNICATIONS	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE
CONC	CONCRETE	GFEP	GROUND FAULT EQUIPMENT PROTECTION (GMA)	MHz	MEGAHERTZ
CONN	CONNECTION, CONNECT	GFI	GROUND FAULT INTERRUPTER	MIN	MINIMUM
COORD	COORDINATE	GFP	GROUND FAULT PROTECTION	MISC	MISCELLANEOUS
CRAH	COMPUTER ROOM AIR HANDLER	GPS	GLOBAL POSITIONING SYSTEM	MLO	MAIN LUGS ONLY
CT	CABLE TRAY	H	COORDINATE	MMR	MEET ME ROOM
CT	CURRENT TRANSFORMER	HD	HEAVY DUTY	MO	MANUALLY OPERATED
CU	COPPER	HGT	HEIGHT	MT, MTD	MOUNT(ED)
CUH	CABINET UNIT HEATER	HI	HANDHOLE	MTP	MULTIFIBER TERMINATION PUSH ON
DB	DECIBEL	HO	HIGH OUTPUT	MTR	MOTOR
DC	DIRECT CURRENT	HOA	HAND-OFF-AUTOMATIC	MTS	MANUAL TRANSFER SWITCH
DEG,°	DEGREES	HORZ	HORIZONTAL	MV	MEDIUM VOLTAGE
DET	DETECTOR	HP	HORSEPOWER	MW	MEGAWATT(S)
DIA	DIAMETER	HPP	HIGH POWER FACTOR	N	NORTH
DISC	DISCONNECT	HPS	HIGH PRESSURE SODIUM	NA	NOT APPLICABLE
DIST	DISTRIBUTION	HT, (H)	HEIGHT	NAC	NOTIFICATION APPLIANCE CIRCUIT
DIV	DIVISION	HTR	HEATER	NC	NORMALLY CLOSED
DN	DOWN	HV	HIGH VOLTAGE	NEC	NATIONAL ELECTRICAL CODE
DP	DISTRIBUTION PANEL	HVC	HEATING, VENTILATING & AIR CONDITIONING	NF	NON-FUSED
DWG	DRAWING	IAW	IN ACCORDANCE WITH	NIP	NOT IN PROJECT
E	EMPTY	IC	INTERCOMMUNICATION	NL	NIGHT LIGHT
EA	EACH	ID	INSIDE DIAMETER	NO	NORMALLY OPEN
EG	EQUIPMENT FAN	IDF	IDENTIFY, IDENTIFICATION	NP	NAMEPLATE
		IME	INTERMEDIATE DISTRIBUTION FRAME	NTF	NEUTRAL TIME PROTOCOL
		IMC	INTERMEDIATE METALLIC CONDUIT	NTS	NOT TO SCALE

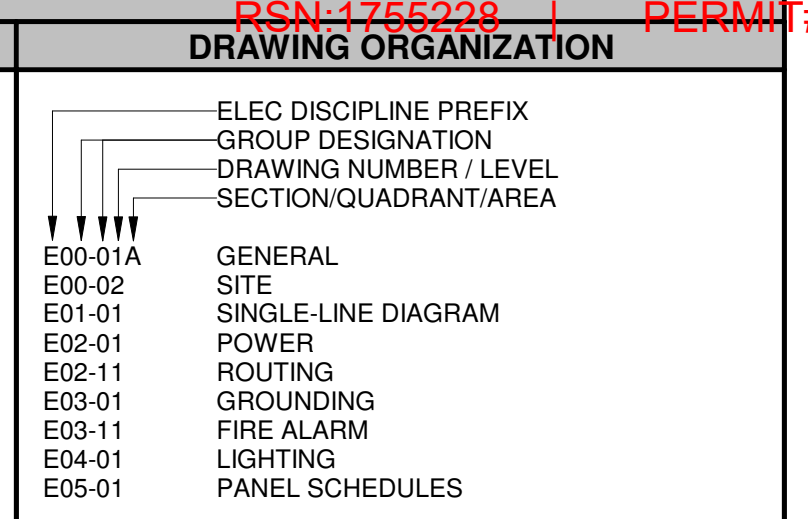
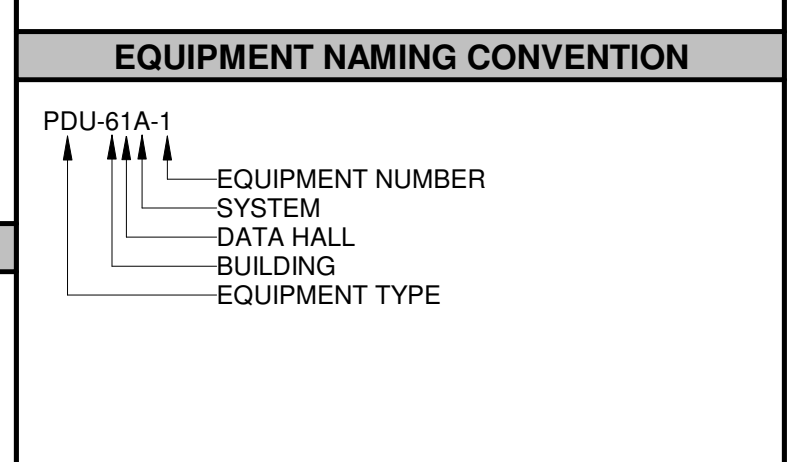
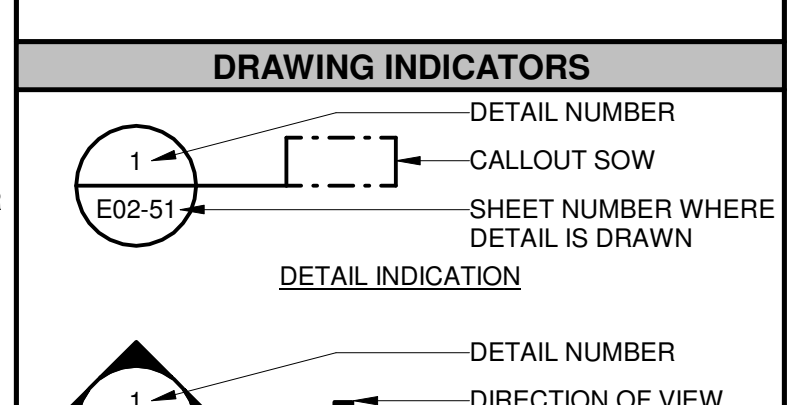
IN	INCH/INCHES	OC	ON CENTER	SYM	SYMMETRICAL
INAN	INCANDESCENT	OCFI	OWNER FURNISHED, CONTRACTOR	T	TRAY
INSUL	INSULATION	OFOI	OWNER FURNISHED, OWNER INSTALLED	TB	TERMINAL BLOCK
INV	INVERT	P	PREFERRED	TBD	TO BE DETERMINED
IPS	INTERRUPTIBLE POWER SUPPLY	P	POLYESTER	TOC	TOP OF CONCRETE
IR	PASSIVE INFRARED	PN	PART NUMBER	TOC	TOP OF CONDUIT
IT	INFORMATION TECHNOLOGIES	PA	PUBLIC ADDRESS	TOCB	TOP OF CABLEBUS
JB	JUNCTION BOX	PAC	PRE-ASSEMBLED CONTAINER	TOCT	TOP OF CABLE TRAY
JCT	JUNCTION	PB	PULL BOX	TOOB	TOP OF DUCTBANK
KA	KILO AMPERE(S)	PB	PUSHBUTTON	TOP	TOP OF PARAPET
KMIL	THOUSAND CIRCULAR MIL(S)	PC	PHOTOCOP	TOR	TOP OF RACK
KILO	THOUSAND	PCCR	PRIMARY CORPORATE CABLE ROOM	TOS	TOP OF STEEL
KV	KILOVOLT(S)	PDU	POWER DISTRIBUTION UNIT	TOU	TOP OF UNISTRUT
KVA	KILOVOLT-AMPERE(S)	PF	POWER FACTOR	TP	TRANSITION POINT
KVAR	KILOVARI(S)	PFR	PREFERRED	TR	TELECOMMUNICATIONS ROOM
KW	KILOWATT(S)	PH	PHASE	TS	TUBE STEEL
LHD	LONG TIME DELAY DETECTOR	PL	PLATE	TSB	TECHNICAL SERVICE BULLETIN
LJ	LONG TIME INSTANTANEOUS	PL	PILOT LIGHT	TYP	TYPICAL
LNC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	PLC	PROGRAMMABLE LOGIC CONTROLLER	U	ULTRASONIC
LNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	PM	POWER METER	UC	UNDER COUNTER
LSS	LIFE SAFETY SYSTEMS	PMO	PARTICLE MONITOR OUTLET	UG	UNDERGROUND
LT(S)	LIGHT(S)	PMS	POWER MONITORING SYSTEM	UGC	UNDERGROUND COMMUNICATION
LTG	LIGHTING	PNL	PANEL	UGP	UNDERGROUND POWER
LV	LOW VOLTAGE	PQM	POWER QUALITY METER	UH	UNIT HEATER
MA	MILLIAMPERE(S)	PR	PREPARED	UHO	UNLESS NOTED OTHERWISE
MAINT	MAINTAINED	PREP	PREPARED	UCN	UNLESS OTHERWISE NOTED
MAN	MANUAL	PRI	PRIMARY	UPS	UNINTERRUPTIBLE POWER SUPPLY
MATL	MATERIAL	PSI	POUNDS PER SQUARE INCH	UTIL	UTILITY
MAX	MAXIMUM	PVC	POLYVINYL CHLORIDE	UTP	UNSHIELDED TWISTED PAIR
MB	MAIN BOARD	PWR	POWER	V	VOLT(S)
MBB	MAIN BYPASS BOARD	QTY	QUANTITY	VA	VOLT-AMPERE(S)
MC	METAL CLAD CABLE	R	RISER	VAR	REACTIVE VOLT-AMPERE(S)
MCB	MAIN CIRCUIT BREAKER	RECEPT	RECEPTACLE	VAV	VARIABLE AIR VOLUME
MCC	MOTOR CONTROL CENTER	RECT	RECTIFIER	VFD	VARIABLE FREQUENCY DRIVE
MCCB	MOLDED CASE CIRCUIT BREAKER	REF	REFERENCE	VB	VERTICAL INSIDE BEND
MCR	MAIN COMMUNICATIONS ROOM	REFR	REFRIGERATOR	VGB	VERTICAL OUTSIDE BEND
MCS	MOLDED CASE SWITCH	REOD	REQUIRED	VP	VAPORPROOF
MDP	MAIN DISTRIBUTION PANEL	RFI	REQUEST FOR INFORMATION	VRFY	VERIFY
MECH	MECHANICAL	RGS	RIGID GALVANIZED STEEL CONDUIT	VRLA	VALVE REGULATED LEAD ACID
MFLN	MILLION	RIM	RIPPLE INSULATED WIRE	W	WIDE WIDTH
MEZZ	MEZZANINE	RM	ROOM	W	WIRE
MFR	MANUFACTURER	RMC	RIGID METALLIC CONDUIT	W	WATT(S)
MH	MANHOLE	RPO	ROUGH OPENING	W	WITH
MHz	MEGAHERTZ	RPP	REMOTE POWER PANEL	W/O	WITHOUT
MIN	MINIMUM	SCC	SATELLITE COMMUNICATIONS CABINET	W/A	WORK AREA
MISC	MISCELLANEOUS	SCCR	SECONDARY CORP CABLE ROOM OR SATELLITE CORP CABLE ROOM	WG	WIRE GUARD
MLO	MAIN LUGS ONLY	SCH	SCHEDULE	WP	WATERPROOF
MMR	MEET ME ROOM	SCR	STANDALONE CONTROL PANEL	WT	WEIGHT
MO	MANUALLY OPERATED	SE	SECTION	WT	WATERTIGHT
MT, MTD	MOUNT(ED)	SEG	SEGMENT	XFR	TRANSFORMER
MTP	MULTIFIBER TERMINATION PUSH ON	SHT	SHEET	XHHW	CROSS LINKED POLYETHYLENE INSULATED
MTR	MOTOR	SIB	STRUCTURAL ISOLATION BEAK	XP	EXPLOSION PROOF
MTS	MANUAL TRANSFER SWITCH	SIM	SIMILAR	Y	WYE CONNECTION
MV	MEDIUM VOLTAGE	SLV	SPECIALTY LOW VOLTAGE	Δ	DELTA CONNECTION
MW	MEGAWATT(S)	SS	STAINLESS STEEL		
N	NORTH	ST	TYPE OF FIBER OPTIC CONNECTOR		
NA	NOT APPLICABLE	STD	STANDARD		
NAC	NOTIFICATION APPLIANCE CIRCUIT	STL	STEEL		
NC	NORMALLY CLOSED	STP	SHIELDED TWISTED PAIR		
NEC	NATIONAL ELECTRICAL CODE	STRUCT	STRUCTURAL		
NF	NON-FUSED	SUR	SURFACE		
NIP	NOT IN CONTRACT	SWD	SWITCH		
NL	NIGHT LIGHT	SWBD	SWITCHBOARD		
NO	NORMALLY OPEN	SWG	SWITCHGEAR		
NP	NAMEPLATE				
NTF	NEUTRAL TIME PROTOCOL				
NTS	NOT TO SCALE				

OC	ON CENTER	SYM	SYMMETRICAL
OCFI	OWNER FURNISHED, CONTRACTOR	T	TRAY
OFOI	OWNER FURNISHED, OWNER INSTALLED	TB	TERMINAL BLOCK
P	PREFERRED	TBD	TO BE DETERMINED
P	POLYESTER	TOC	TOP OF CONCRETE
PN	PART NUMBER	TOC	TOP OF CONDUIT
PA	PUBLIC ADDRESS	TOCB	TOP OF CABLEBUS
PAC	PRE-ASSEMBLED CONTAINER	TOCT	TOP OF CABLE TRAY
PB	PULL BOX	TOOB	TOP OF DUCTBANK
PB	PUSHBUTTON	TOP	TOP OF PARAPET
PC	PHOTOCOP	TOR	TOP OF RACK
PCCR	PRIMARY CORPORATE CABLE ROOM	TOS	TOP OF STEEL
PDU	POWER DISTRIBUTION UNIT	TOU	TOP OF UNISTRUT
PF	POWER FACTOR	TP	TRANSITION POINT
PFR	PREFERRED	TR	TELECOMMUNICATIONS ROOM
PH	PHASE	TS	TUBE STEEL
PL	PLATE	TSB	TECHNICAL SERVICE BULLETIN
PL	PILOT LIGHT	TYP	TYPICAL
PLC	PROGRAMMABLE LOGIC CONTROLLER	U	ULTRASONIC
PM	POWER METER	UC	UNDER COUNTER
PMO	PARTICLE MONITOR OUTLET	UG	UNDERGROUND
PMS	POWER MONITORING SYSTEM	UGC	UNDERGROUND COMMUNICATION
PNL	PANEL	UGP	UNDERGROUND POWER
PQM	POWER QUALITY METER	UH	UNIT HEATER
PR	PREPARED	UHO	UNLESS NOTED OTHERWISE
PREP	PREPARED	UCN	UNLESS OTHERWISE NOTED
PRI	PRIMARY	UPS	UNINTERRUPTIBLE POWER SUPPLY
PSI	POUNDS PER SQUARE INCH	UTIL	UTILITY
PVC	POLYVINYL CHLORIDE	UTP	UNSHIELDED TWISTED PAIR
PWR	POWER	V	VOLT(S)
QTY	QUANTITY	VA	VOLT-AMPERE(S)
R	RISER	VAR	REACTIVE VOLT-AMPERE(S)
RECEPT	RECEPTACLE	VAV	VARIABLE AIR VOLUME
RECT	RECTIFIER	VFD	VARIABLE FREQUENCY DRIVE
REF	REFERENCE	VB	VERTICAL INSIDE BEND
REFR	REFRIGERATOR	VGB	VERTICAL OUTSIDE BEND
REOD	REQUIRED	VP	VAPORPROOF
RFI	REQUEST FOR INFORMATION	VRFY	VERIFY
RGS	RIGID GALVANIZED STEEL CONDUIT	VRLA	VALVE REGULATED LEAD ACID
RIM	RIPPLE INSULATED WIRE	W	WIDE WIDTH
RM	ROOM	W	WIRE
RMC	RIGID METALLIC CONDUIT	W	WATT(S)
RPO	ROUGH OPENING	W	WITH
RPP	REMOTE POWER PANEL	W/O	WITHOUT
SCC	SATELLITE COMMUNICATIONS CABINET	W/A	WORK AREA
SCCR	SECONDARY CORP CABLE ROOM OR SATELLITE CORP CABLE ROOM	WG	WIRE GUARD
SCH	SCHEDULE	WP	WATERPROOF
SCR	STANDALONE CONTROL PANEL	WT	WEIGHT
SE	SECTION	WT	WATERTIGHT
SEG	SEGMENT	XFR	TRANSFORMER
SHT	SHEET	XHHW	CROSS LINKED POLYETHYLENE INSULATED
SIB	STRUCTURAL ISOLATION BEAK	XP	EXPLOSION PROOF
SIM	SIMILAR	Y	WYE CONNECTION
SLV	SPECIALTY LOW VOLTAGE	Δ	DELTA CONNECTION
SS	STAINLESS STEEL		
ST	TYPE OF FIBER OPTIC CONNECTOR		
STD	STANDARD		
STL	STEEL		
STP	SHIELDED TWISTED PAIR		
STRUCT	STRUCTURAL		
SUR	SURFACE		
SWD	SWITCH		
SWBD	SWITCHBOARD		
SWG	SWITCHGEAR		

SYM	SYMMETRICAL	SYM	SYMMETRICAL
T	TRAY	T	TRAY
TB	TERMINAL BLOCK	TB	TERMINAL BLOCK
TBD	TO BE DETERMINED	TBD	TO BE DETERMINED
TOC	TOP OF CONCRETE	TOC	TOP OF CONCRETE
TOC	TOP OF CONDUIT	TOC	TOP OF CONDUIT
TOCB	TOP OF CABLEBUS	TOCB	TOP OF CABLEBUS
TOCT	TOP OF CABLE TRAY	TOCT	TOP OF CABLE TRAY
TOOB	TOP OF DUCTBANK	TOOB	TOP OF DUCTBANK
TOP	TOP OF PARAPET	TOP	TOP OF PARAPET
TOR	TOP OF RACK	TOR	TOP OF RACK
TOS	TOP OF STEEL	TOS	TOP OF STEEL
TOU	TOP OF UNISTRUT	TOU	TOP OF UNISTRUT
TP	TRANSITION POINT	TP	TRANSITION POINT
TR	TELECOMMUNICATIONS ROOM	TR	TELECOMMUNICATIONS ROOM
TS	TUBE STEEL	TS	TUBE STEEL
TSB	TECHNICAL SERVICE BULLETIN	TSB	TECHNICAL SERVICE BULLETIN
TYP	TYPICAL	TYP	TYPICAL
U	ULTRASONIC	U	ULTRASONIC
UC	UNDER COUNTER	UC	UNDER COUNTER
UG	UNDERGROUND	UG	UNDERGROUND
UGC	UNDERGROUND COMMUNICATION	UGC	UNDERGROUND COMMUNICATION
UGP	UNDERGROUND POWER	UGP	UNDERGROUND POWER
UH	UNIT HEATER	UH	UNIT HEATER
UHO	UNLESS NOTED OTHERWISE	UHO	UNLESS NOTED OTHERWISE
UCN	UNLESS OTHERWISE NOTED	UCN	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY	UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY	UTIL	UTILITY
UTP	UNSHIELDED TWISTED PAIR	UTP	UNSHIELDED TWISTED PAIR
V	VOLT(S)	V	VOLT(S)
VA	VOLT-AMPERE(S)	VA	VOLT-AMPERE(S)
VAR	REACTIVE VOLT-AMPERE(S)	VAR	REACTIVE VOLT-AMPERE(S)
VAV	VARIABLE AIR VOLUME	VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE	VFD	VARIABLE FREQUENCY DRIVE
VB	VERTICAL INSIDE BEND	VB	VERTICAL INSIDE BEND
VGB	VERTICAL OUTSIDE BEND	VGB	VERTICAL OUTSIDE BEND
VP	VAPORPROOF	VP	VAPORPROOF
VRFY	VERIFY	VRFY	VERIFY
VRLA	VALVE REGULATED LEAD ACID	VRLA	VALVE REGULATED LEAD ACID
W	WIDE WIDTH	W	WIDE WIDTH
W	WIRE	W	WIRE
W	WATT(S)	W	WATT(S)
W	WITH	W	WITH
W/O	WITHOUT	W/O	WITHOUT
W/A	WORK AREA	W/A	WORK AREA
WG	WIRE GUARD	WG	WIRE GUARD
WP	WATERPROOF	WP	WATERPROOF
WT	WEIGHT	WT	WEIGHT
WT	WATERTIGHT	WT	WATERTIGHT
XFR	TRANSFORMER	XFR	TRANSFORMER
XHHW	CROSS LINKED POLYETHYLENE INSULATED	XHHW	CROSS LINKED POLYETHYLENE INSULATED
XP	EXPLOSION PROOF	XP	EXPLOSION PROOF
Y	WYE CONNECTION	Y	WYE CONNECTION
Δ	DELTA CONNECTION	Δ	DELTA CONNECTION



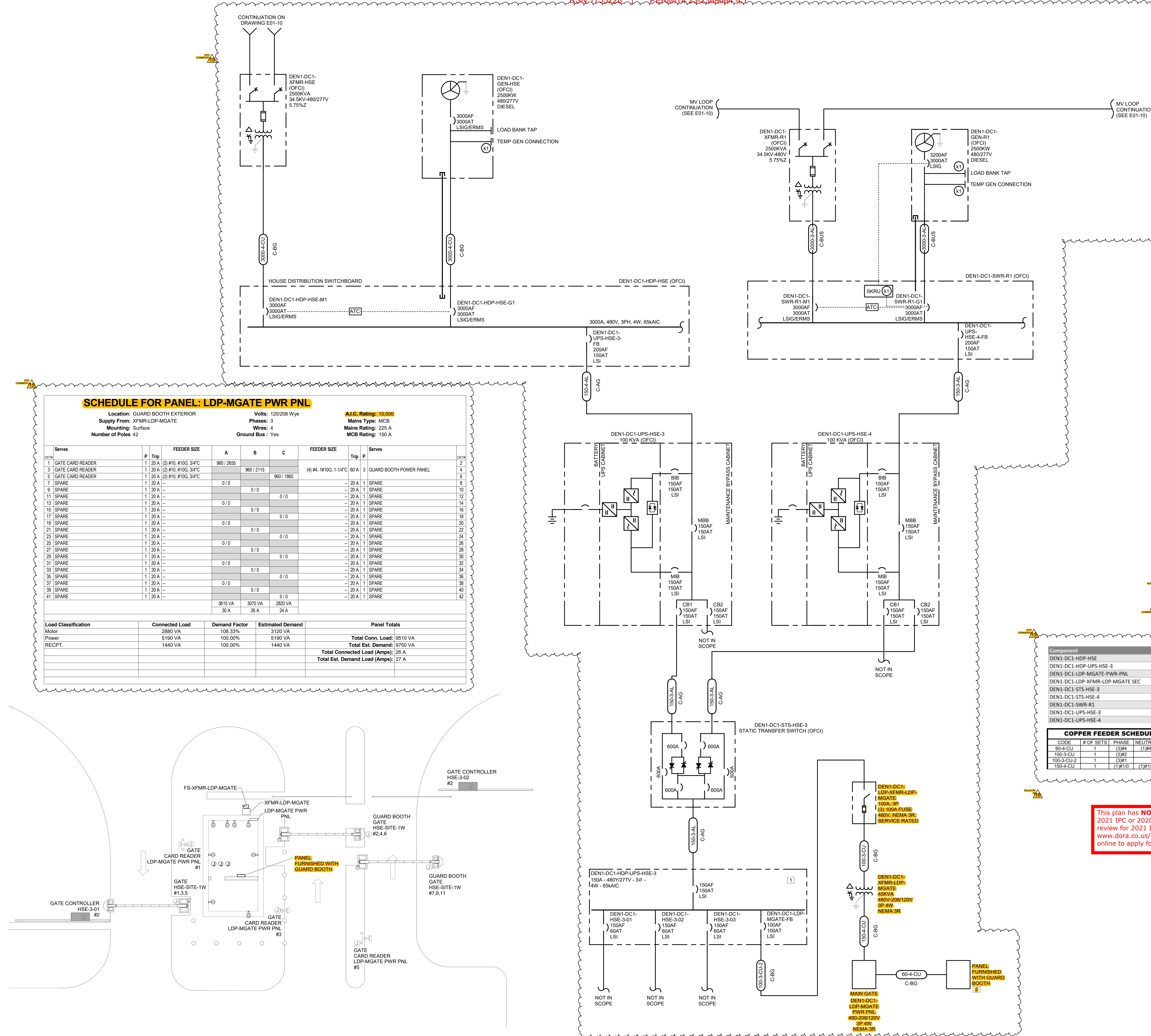
\$x	SINGLE POLE SWITCH; WALL MTD. 48" AFF TO CL UON
\$3	SWITCH-THREE WAY; WALL MTD. 48" AFF TO CL UON
\$4	SWITCH- FOUR WAY; WALL MTD. 48" AFF TO CL UON
\$D	DIMMING LIGHT SWITCH; WALL MTD. 48" AFF TO CL
\$LS	SINGLE POLE SWITCH FOR CONTROL OF LIFE SAFETY LIGHTS; WALL MTD. 48" AFF TO CL
\$OS	OCCUPANCY SENSOR WALL SWITCH; WALL MTD. 48" AFF TO CL "u,l" INDICATES DUAL-SWITCH, DUAL-RELAY STYLE
\$OS	OCCUPANCY SENSOR; CEILING MTD. UON
\$EM	EMERGENCY SHUNT RELAY



SHEET NUMBER	SHEET NAME
E00-01	LEGENDS AND ABBREVIATIONS
E02-01	POWER PLAN - LEVEL ONE - GUARD BOOTH

PERMIT # 23-2389684-L1
PERMIT # 23-2389684-L1

A. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PROJECT DRAWINGS.
B. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF SERVICES WITH EXISTING CONDITIONS AND WITH OTHER TRADES.
C. THE CONTRACTOR IS TO CAREFULLY EXAMINE THE SCOPE OF WORK AND THE CONDITION UNDER WHICH THE PROJECT MUST BE EXECUTED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE CONSULTANT OR DESIGNATED REPRESENTATIVE BEFORE PROCEEDING WITH THE RELATED WORK IN QUESTION.
D. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE CONSULTANT OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
E. THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY CORES UTILIZED FOR PLACEMENT OF FEEDER RACEWAYS WITH APPROVED FIRE-STOPPING METHOD IN ACCORDANCE WITH LOCAL AND NATIONAL CODES AND THE DIVISION'S SPECIFICATIONS.
F. COORDINATE PENETRATIONS AND FIRESTOPPING WITH OTHERS. REFER TO CODE DRAWINGS FOR LOCATION OF FIRE RESISTANT RATED WALL, FLOOR, AND ROOF ASSEMBLIES.
G. THIS CONTRACTOR'S SCOPE OF WORK IS WITHIN A LIVE DATA CENTER WHERE ALL PROCESSES ARE CONSIDERED CRITICAL TO THE BUSINESS OF THE OWNER. THE CONTRACTOR SHALL DEVELOP METHODS OF PROCEDURES IN STRICT ACCORDANCE WITH THE OWNERS PROCESS FOR THE SHUTDOWN OF SYSTEMS, REMOVALS OF SYSTEMS AND ALL NEW WORK, NO WORK SHALL BE PERMITTED WITHOUT THE CONSENT OF THE



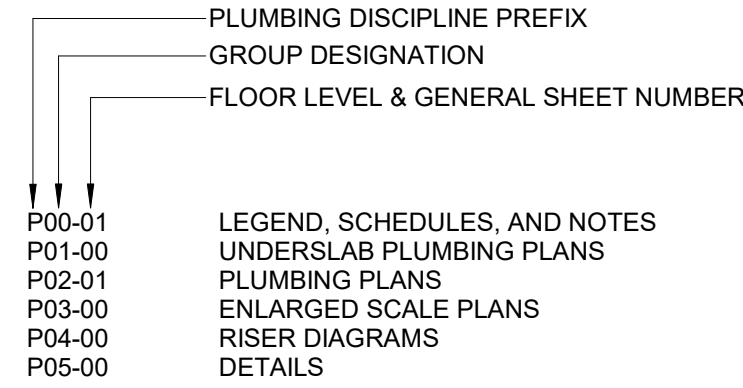


City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted:*KCR Nagle*
Date: **Oct 17, 2023**
2015 INTERNATIONAL CODES & 2020 NEC

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

DRAWING ORGANIZATION



SHEET LIST

SHEET NUMBER	SHEET NAME
P00-02	LEGEND, SCHEDULES AND NOTES
P01-01	PLUMBING PLAN - GUARD BOOTH - OVERALL
P06-02	PLUMBING SCHEDULE - GUARD BOOTH

GENERAL NOTES

- STORM DRAINAGE SERVED BY EXTERNAL SCUPPERS AND DOWNSPOUTS; REFER TO ARCHITECTURAL PLANS
- SANITARY, WASTE, AND VENT SHALL BE INSTALLED IN ACCORDANCE WITH THE PLUMBING CODE AND ANY AMENDMENTS ADOPTED BY THE CITY OF AURORA, CO.
- CLEANING AND DISINFECTION OF POTABLE WATER PIPE AS FOLLOWS:
 - CLEAN AND DISINFECT POTABLE SERVICE ENTRANCE PIPING AND WATER DISTRIBUTION PIPING IN ACCORDANCE WITH CHAPTER 6, SECTION 610 OF THE PLUMBING CODE, AND ANY AMENDMENTS ADOPTED BY THE CITY OF AURORA, CO.
 - PURGE ALL WATER PIPING BEFORE USING, USE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED, PROCEDURE DESCRIBED IN EITHER AWWA C651, AWWA C652 OR AS DESCRIBED BELOW.
 - FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
 - FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE; ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
 - FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE IS NO LONGER PRESENT IN WATER COMING FROM SYSTEM.
 - SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURE IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
 - PREPARE AND SUBMIT REPORTS FOR PURGING AND DISINFECTING ACTIVITIES.
- ALL CONDENSATE PIPING SERVING ROOF TOP UNITS (RTU'S) SHALL BE HARD PIPED USING DWV COPPER TO CLOSEST ROOF DRAIN PROVIDING ADEQUATE PITCH AND SUPPORT IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDED PRACTICES.

FLOW TEST MODEL DATA

SITE: 10TH & GUN CLUB
TEST DATE: 08.31.2020
HYDRANTS: 06U-14 & 06U-15
STATIC PRESSURE (PSI): 78.1
RESIDUAL PRESSURE (PSI): 65.4
FLOW (GPM): 2,500
FLOW @ 20 PSI (GPM): 6,201.6

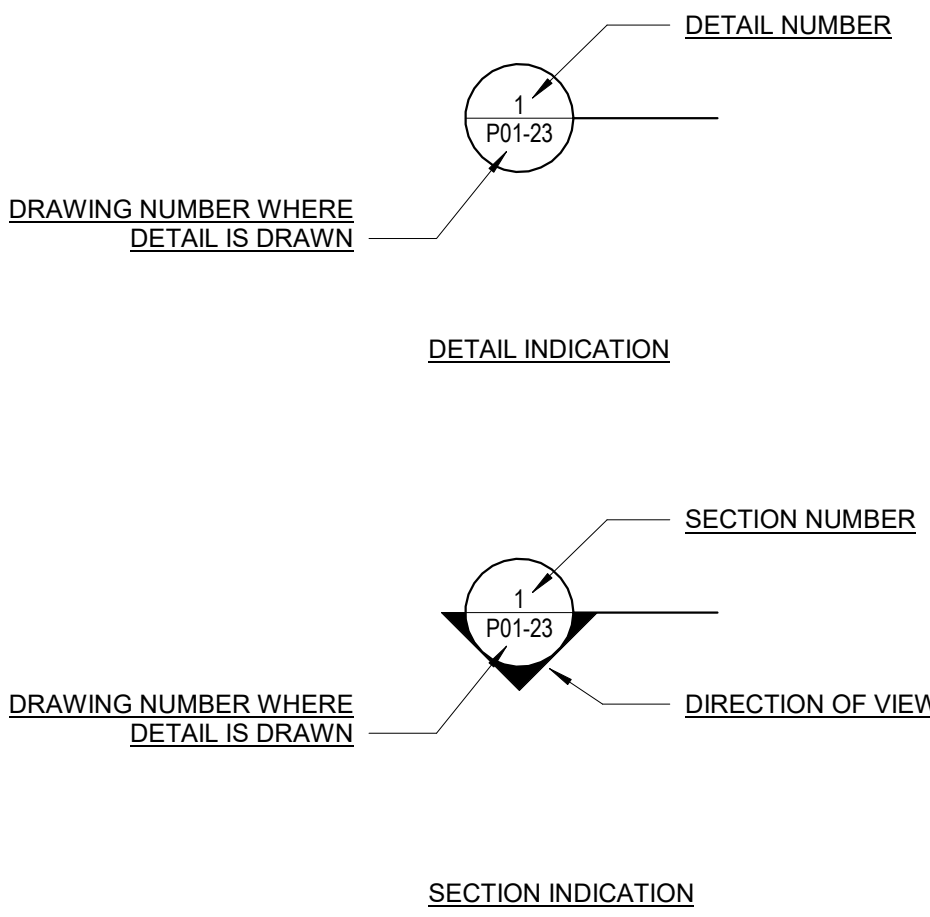
6

CHANGE OF MECHANICAL ENGINEER OF RECORD. SEE TITLEBLOCK FOR NEW EOR INFORMATION

SANITARY, WASTE, STORM, CONDENSATE, AND VENT PIPING MATERIAL

- UNDERGROUND, SOIL, WASTE, AND VENT PIPING NPS 16 AND SMALLER SHALL BE THE FOLLOWING:
 - SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS.
- ABOVEGROUND STORM, SOIL, WASTE, & CONDENSATE PIPING NPS 4 AND SMALLER THE FOLLOWING:
 - SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
 - HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; STANDARD SHIELDED STAINLESS-STEEL AND RIGID, UNSHIELDED COUPLINGS, AND HUBLESS-COUPLING JOINTS.
 - STEEL PIPE, DRAINAGE FITTINGS, AND THREADED JOINTS.
 - COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.
 - DISSIMILAR PIPE-MATERIAL COUPLINGS: SHIELDED, NON-PRESSURE PIPE COUPLINGS FOR JOINING DISSIMILAR PIPE MATERIALS WITH SMALL DIFFERENCE IN OD.
- ABOVEGROUND STORM, SOIL, AND WASTE PIPING NPS 5 AND LARGER SHALL BE ANY OF THE FOLLOWING:
 - SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
 - HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY SHIELDED, STAINLESS-STEEL COUPLINGS AND HUBLESS-COUPLING JOINTS.
 - STEEL PIPE, DRAINAGE FITTINGS, AND THREADED JOINTS.
 - DISSIMILAR PIPE-MATERIAL COUPLINGS: FLEXIBLE, SHIELDED, NON-PRESSURE PIPE COUPLINGS FOR JOINING DISSIMILAR PIPE MATERIALS WITH SMALL DIFFERENCE IN OD.
- ABOVEGROUND, VENT PIPING NPS 6" AND SMALLER SHALL BE ANY OF THE FOLLOWING:
 - SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
 - HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; STANDARD SHIELDED, STAINLESS-STEEL COUPLINGS; AND HUBLESS-COUPLING JOINTS.
 - STEEL PIPE, DRAINAGE FITTINGS, AND THREADED JOINTS.
 - STAINLESS-STEEL PIPE AND FITTINGS, GASKETS, AND GASKETED JOINTS.
 - COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.
 - DISSIMILAR PIPE-MATERIAL COUPLINGS: SHIELDED, NON-PRESSURE PIPE COUPLINGS FOR JOINING DISSIMILAR PIPE MATERIALS WITH SMALL DIFFERENCE IN OD.
 - OPTION FOR VENT PIPING, NPS 2-1/2 AND NPS 3-1/2: HARD COPPER TUBE, TYPE M; COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
 - DISSIMILAR PIPE-MATERIAL COUPLINGS: SHIELDED NON-PRESSURE PIPE COUPLINGS FOR JOINING DISSIMILAR PIPE MATERIALS WITH SMALL DIFFERENCE IN OD.
- FLANGES AND UNIONS MAY BE USED ON ABOVEGROUND PRESSURE PIPING, UNLESS OTHERWISE INDICATED.

DRAWING INDICATORS



PLUMBING

BRANCH OFF TOP OF MAIN	
BRANCH OFF BOTTOM OF MAIN	
ELBOW DOWN	
ELBOW UP	
PUMP	
FLOOR OR AREA DRAIN	
FLOOR CLEANOUT	
PRESSURE GAUGE	
REDUCER	
STRAINER	
THERMOMETER	
LINE CLEANOUT	
TRAP	
UNION	
BALL VALVE	
CHECK VALVE	
HIGH PERFORMANCE BUTTERFLY VALVE	
RELIEF VALVE	
WALL HYDRANT OR HOSE BIBB	
WATER HAMMER ARRESTER W/ DEDICATED ISOLATION BALL VALVE	
LETTER INDICATES SIZING CONVERSION	

ABD	AUTOMATIC BALL DRIP	JC	JANITOR'S CLOSET
ABV	ABOVE	KW	KILOWATT
AD	AREA DRAIN	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	LBS	POUNDS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET
AHJ	AUTHORITY HAVING JURISDICTION	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURE(E,ER,ED)
APPROX	APPROXIMATE	MH	MANHOLE
ARCH	ARCHITECTURAL	MIN	MINIMUM
ASSY	ASSEMBLY	MSB	MOP SINK BASIN
AUTO	AUTOMATIC	MTG	MOUNTING
B	BELOW	MTD	MOUNTED
BFP	BACKFLOW PREVENTER	NC	NORMALLY CLOSED
BLDG	BUILDING	NFRH	NON-FREEZE ROOF HYDRANT
BOP	BOTTOM OF PIPE	NFWH	NON-FREEZE WALL HYDRANT
BOT	BOTTOM	NFYH	NON-FREEZE YARD HYDRANT
C	CUBIC FEET PER HOUR	N.I.C.	NOT IN CONTRACT
CI	CAST IRON	NO	NORMALLY OPEN
CKV	CHECK VALVE	NO.	NUMBER
CL	CENTER LINE	NTS	NOT TO SCALE
CO	CLEAN OUT	OF-RD	OVERFLOW ROOF DRAIN
CODP	CLEAN OUT DECK PLATE	OF-ST	OVERFLOW STORM LINE
COTG	CLEAN OUT TO GRADE	OS&Y	OUTSIDE STEM AND YOKE VALVE
COWP	CLEAN OUT WALL PLATE	%	PERCENT
COL	COLUMN	PD	PRESSURE DROP/PUMP DISCHARGE
CONC	CONCRETE	PH	PHASE
COND	CONDENSATE	PLBS	PLUMBING
CONN	CONNECTION	PRESS	PRESSURE
CONST	CONSTRUCTION	PRV	PRESSURE REDUCING VALVE
CONT	CONTINUE, CONTINUOUS	PS	PRESSURE SWITCH
CW	COLD WATER	PSI	POUNDS PER SQUARE INCH
DEPT	DEPARTMENT	RAF	RAISED ACCESS FLOOR
DET	DETAIL	RD	ROOF DRAIN
DIA	DIAMETER	RPM	REVOLUTIONS PER MINUTE
DIAQ	DIAGRAM, RAMMATIC, ONAL)	RPZ	REDUCED PRESSURE ZONE
DISC	DISCONNECT	SAN	SANITARY LINE
DISCH	DISCHARGE	SCHED	SCHEDULE
DN	DOWN	SECT	SECTION
DOM	DOMESTIC	SH	SHOWER
DR	DRAIN PIPE	SK	SINK
DWG	DRAWING	SP	SUMP PUMP/SPRINKLER
EA	EACH	SPECS	SPECIFICATIONS
ELEC	ELECTRICAL	SF OR SQ.FT.	SQUARE FOOT
EL	ELEVATION	SQ. IN.	SQUARE INCH
EMER	EMERGENCY	S.S.	STAINLESS STEEL
ENCL	ENCLOSE, ENCLOSURE	SS	SERVICE SINK
EQPT	EQUIPMENT	ST	STORM LINE
EST	ESTIMATE	STD	STANDARD
EVAP	EVAPORAT(E,ING,ED,OR)	STRUC	STRUCTURAL
ESEW	EMERGENCY SHOWER EYEWASH	TEMP	TEMPERATURE
EW	ELECTRIC WATER COOLER	THD	THREAD
EXIST	EXISTING	THK	THICK(NESS)
FD	FLOOR DRAIN	TMV	THERMOSTATIC MIXING VALVE
FDC	SIAMSESE FIRE DEPARTMENT CONNECTION	TOT	TOTAL
FF	FINISHED FLOOR	TS	TAMPER SWITCH
FIG	FIGURE	TYP	TYPICAL
FLR	FLOOR	UL	UNDERWRITERS LABORATORIES
FM	FACTORY MUTUAL	V	VENT
FP	FIRE PROTECTION	V.I.F.	VERIFY IN FIELD
FS	FLOW SWITCH	VOL	VOLUME
FT	FOOT, FEET	VTR	VENT THRU ROOF
FU	FIXTURE UNIT	VTW	VENT THRU WALL
GAL	GALLON	W	WASTE LINE
GPH	GALLONS PER HOUR	W/	WITH
GW	GALLONS PER MINUTE	WCO	WALL CLEANOUT
GW	GRAY WATER	WC	WATER CLOSET
HB	HOSE BIBB	WH	WATER HEATER
HORIZ	HORIZONTAL	WHA	WATER HAMMER ARRESTOR
HP	HORSEPOWER	W/O	WITHOUT
HT	HEIGHT		
HW	HOT WATER		
HWR	HOT WATER RETURN		
ID	DIAMETER, INSIDE		
I.E.	INVERT ELEVATION		
IN	INCHES		
INT	INTERIOR (NAL)		
IN	INDIRECT WASTE		

ABBREVIATIONS

DOMESTIC PIPING MATERIAL

- ABOVEGROUND DOMESTIC WATER PIPING: USE ANY OF THE FOLLOWING PIPING MATERIALS FOR EACH SIZE RANGE:
 - NPS 1 AND SMALLER: HARD COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
 - NPS 1-1/4 AND NPS 1-1/2: HARD COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
 - NPS 2: HARD COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
 - NPS 2: HARD COPPER TUBE, TYPE L WITH GROOVED ENDS; COPPER GROOVED-END FITTINGS; GROOVED-END-TUBE COUPLINGS; AND GROOVED JOINTS.
 - NPS 2-1/2 TO NPS 3: HARD COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
 - NPS 2-1/2 TO NPS 3: HARD COPPER TUBE, TYPE L WITH GROOVED ENDS; COPPER GROOVED-END FITTINGS; GROOVED-END-TUBE COUPLINGS; AND GROOVED JOINTS.
- QUALITY ASSURANCE
 - PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR MARKINGS NSF®-61 AND NSF®-372 (OR NSF®-61-G) OR OTHER ACCEPT CERTIFIER MARKS DEMONSTRATING THIRD PARTY CERTIFICATION WITH THESE REQUIREMENTS.
 - COMPLY WITH NSF/ANSI 61, "DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS; SECTIONS 1 THROUGH 9," FOR POTABLE DOMESTIC WATER PIPING AND COMPONENTS.
 - PRODUCTS INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION THROUGH DRINKING OR COOKING SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF NOT MORE THAN 0.25% AS DETERMINED BY NSF/ANSI 372, AND NSF/ANSI 61.
 - WATER DISTRIBUTION MAIN GATE VALVES TWO INCHES AND LARGER IN DIAMETER EXEMPTED FROM THE 0.25% WEIGHTED AVERAGE LEAD CONTENT REQUIREMENT. PRODUCT SHALL BE CERTIFIED COMPLIANT WITH THESE REQUIREMENTS BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED CERTIFICATION ORGANIZATION.

CORGAN

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401 N. Houston St.
Dallas, TX 75202
T: 214.748.2000

mission critical engineering

KW MISSION CRITICAL ENGINEERING
433 River St. 7th Floor
Troy, NY 12180



L.A. FUESS PARTNERS
3333 Lee Pkwy #300
Dallas, TX 75219

Kimley»Horn

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4582 South Ulster Street, Suite 1500,
Denver, CO 80237
T: 210-541-9166

ISSUES

1	12.03.2021	ISSUE FOR PERMIT
2	05.13.2022	ISSUE FOR CONSTRUCTION

REVISIONS

6	04.28.2023	BULLETIN #3
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mission critical engineering

433 River St | 7th Floor | Troy NY 12180

Contact: Chris Henson Phone: 480.647.3215
Engineer: Brian Evans, P.E.
License #: 60351 Exp. Date: 10.31.2023



04.28.2023

QTS-DEN1-DC1 GUARDBOOTH

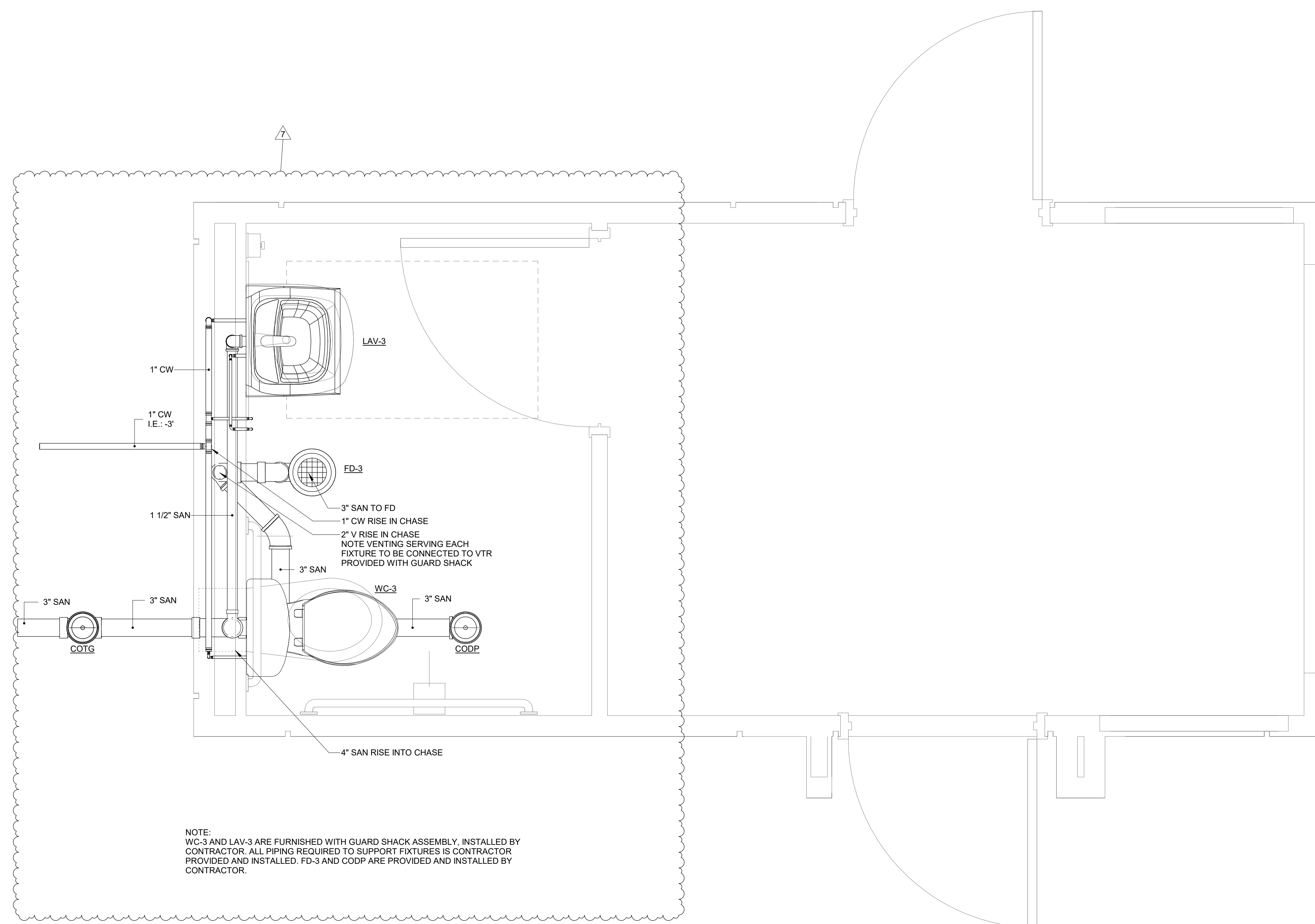
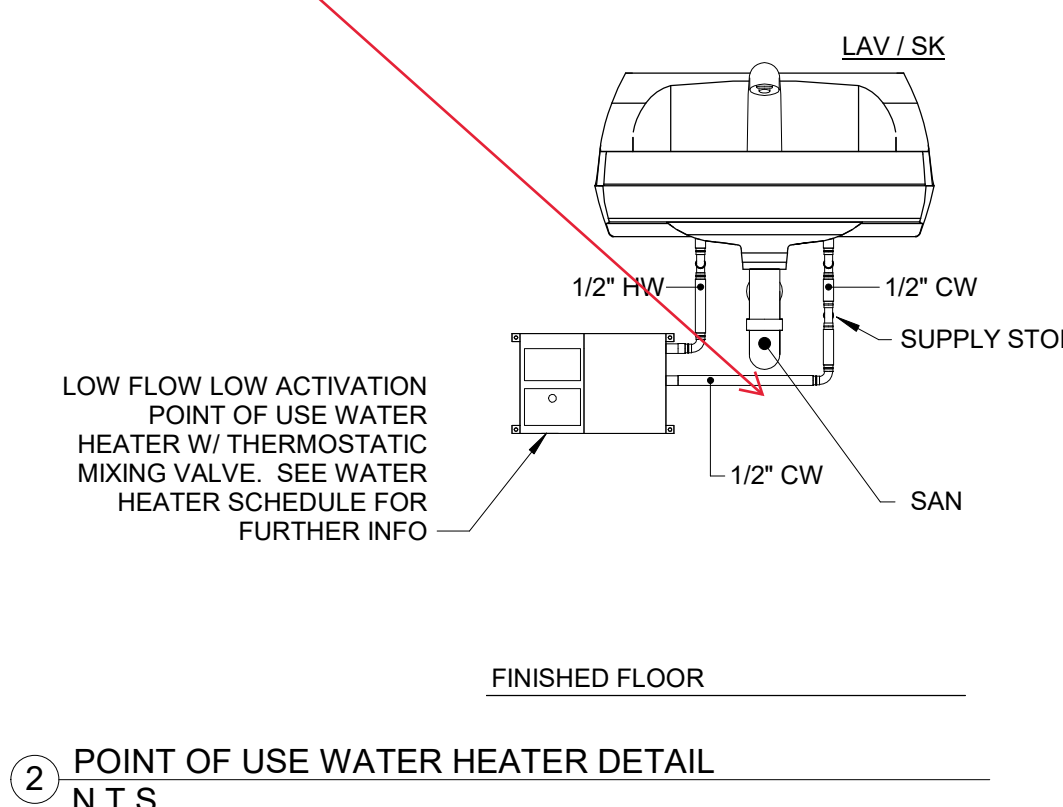
1164 N. GUN CLUB RD
AURORA, CO



LEGEND, SCHEDULES AND NOTES

JOB 21,172
DATE 11/19/21
SHEET

P00-02



NOTE:
WC-3 AND LAV-3 ARE FURNISHED WITH GUARD SHACK ASSEMBLY, INSTALLED BY CONTRACTOR. ALL PIPING REQUIRED TO SUPPORT FIXTURES IS CONTRACTOR PROVIDED AND INSTALLED. FD-3 AND CODP ARE PROVIDED AND INSTALLED BY CONTRACTOR.

① PLUMBING PLAN - GUARD BOOTH - OVERALL
1" = 1'-0"



PLUMBING FIXTURE SCHEDULE				
EQUIPMENT ID	MANUFACTURER	SERIES	MODEL NO.	DESCRIPTION
CDDP	JAY R. SMITH MFG.	4000	4021	CLEANOUT DECK PLATE-DUCO COATED CAST-IRON BODY, BRONZE PLUG, NICKEL BRONZE TOP
COTG	ZURN			CLEANOUT TO GRADE; REFER TO DETAIL SHEET
FD-3	JAY R. SMITH MFG.		2005	FLOOR DRAIN: CAST IRON DUCO COATED BODY, 6" DIA. ADJ. STRAINER NICKEL BRONZE FINISH
				NOTE: ALL FLOOR DRAINS TO BE PROVIDED W/ "PROSET" TRAP GUARD
LAV-3				OWNER FURISHED WITH GUARD SHACK, CONTRACTOR INSTALLED.
WC-3				OWNER FURISHED WITH GUARD SHACK, CONTRACTOR INSTALLED.



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Kirk Nagle*
Date: **Oct 17, 2023**
2015 INTERNATIONAL CODES & 2020 NEC

CORGAN

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ISSUES

1	12.03.2021	ISSUE FOR PERMIT
2	05.13.2022	ISSUE FOR CONSTRUCTION

REVISIONS

7	09.29.2023	BULLETIN #4
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433 River St | 7th Floor | Troy NY 12180

Contact: Darren Keyser Phone: 518.391.9270
Engineer: Brian Evans, P.E..
License #: 60351 Exp. Date: 10.31.2023

QTS-DEN1-DC1 GUARDBOOTH

1164 N. GUN CLUB RD
AURORA, CO



PLUMBING
SCHEDULE - GUARD
BOOTH

JOB 21,172
DATE 09/29/2023
SHEET

P06-02

GENERAL NOTES

RSN:1755228 | PERMIT# 23-2389684 -LT

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS 2015 INTERNATIONAL BUILDING CODE

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ISSUES

1 12.03.2021 ISSUE FOR PERMIT
2 05.13.2022 ISSUE FOR CONSTRUCTION
3 10.17.2022 BULLETIN #1 REV 1

REVISIONS



10.17.2022

QTS-DEN1-DC1 GUARDBOOTH



1164 N. GUN CLUB ROAD
AURORA CO

GUARD BOOTH

JOB 20488.0000
DATE 05.13.2022
SHEET

S07-01

SECTION 1 - GENERAL INFORMATION AND DESIGN CRITERIA

SECTION 1.1 - DOCUMENTS

- 1.1.1 Structural Drawings are not stand-alone documents. They are augmented by technical specifications and must be coordinated with Architectural, Civil and Mechanical/Electrical/Plumbing/HVAC documents.
- 1.1.2 General Notes and Typical Details apply generally throughout the project wherever conditions similar to those depicted exist and are not necessarily referenced specifically in the documents.
- 1.1.3 Structural documents are protected by U.S.A. Copyright Laws, and shall not be used for any purpose other than construction of the building described in the Architectural documents and at the geographic location shown. The structural design described in these documents is not valid for any other purpose, use or location.

- 1.1.4 The Geotechnical Report referenced herein is not part of the Structural Documents. However, a copy should be obtained for reference during installation of foundations and subgrade preparation.

COORDINATION

- 1.1.5 Contractor is responsible for coordinating Structural Documents with other trades and disciplines including; architectural, civil, mechanical, electrical, HVAC and fire protection. Some requirements are not known prior to issue and may change as layout and fabrication drawings are developed. Promptly report deviations and interferences with structural components for resolution by the Engineer.

- 1.1.6 Contractor shall verify dimensional location and depth of slab recesses and offsets with Architectural Drawings.

- 1.1.7 Contractor shall verify weights, location and details of structurally supported mechanical equipment prior to construction of the supporting structure. Report deviations from assumed conditions to the Engineer prior to fabricating materials.

- 1.1.8 Contractor shall verify size, location and detail of roof openings and curbs for mechanical equipment prior to fabricating materials. Report deviations from assumed conditions to the Engineer before proceeding with work.

- 1.1.9 Contractor shall verify size and location of floor and roof penetrations shown on structural drawings with other disciplines. Submit for approval a composite drawing showing all proposed openings and sleeves through structural members for engineering review prior to or simultaneous with shop drawings for affected framing.

- 1.1.10 Contractor shall verify elevator pit dimensions and depth, elevator shaft floor opening dimensions, over-run clearance requirements at top of shaft, and penthouse dimensions with requirements of purchased equipment. Promptly report discrepancies to Architect for resolution prior to construction.

- 1.1.11 Do not scale plans, details and sections for quantity, length or fit of materials.

REFERENCE ELEVATIONS

- 1.1.12 Heights of floor and roof decks and various framing components are given on the drawings relative to a reference elevation of 100'-0". This reference elevation is equivalent to a Mean Sea Level Elevation of 5553.70 ft.

TEMPORARY BRACING

- 1.1.13 Structural systems are designed for in-place conditions only. Contractor shall provide temporary bracing of structural components (including but not limited to beams, purlins, joists, columns, walls, wall panels and structural frame) for conditions that will exist during construction and to meet all regulatory requirements for safety of workmen.

- 1.1.14 Backfilling of walls shall not commence until intersecting floor or roof structures are in place and have attained design strength.

- 1.1.15 Temporary frame bracing shall remain until installation of permanent structural bracing elements, member connections and floor or roof diaphragms are complete.

SECTION 1.2 - CODES AND STANDARDS

- 1.2.1 Building Code of jurisdiction : 2015 International Building Code w/ City of Aurora Amendments

- 1.2.2 Structural Concrete Code - American Concrete Institute (ACI) 318 (AISC) 360

SPECIAL INSPECTIONS

- 1.2.4 See Statement of Special Inspections for minimum special inspections and testing per the Building Code.

- 1.2.5 See Technical Specifications for other materials testing and inspection requirements.

SECTION 1.3 - DESIGN CRITERIA

- 1.3.1 Roof Snow Loads
Risk Category IV
Ground Snow Load 34 psf
Snow Importance Factor (Is) 1.2
Snow Exposure Factor (Ce) 1.0
Thermal Factor (Ct) 1.0
Typical Minimum Flat Roof Snow Load per Building Code 30 psf

- 1.3.2 Wind Loads
Risk Category IV
Ultimate Design Wind Speed (Vult) 120 mph
Allowable Design Wind Speed (Vasd) 93 mph
Wind Exposure Classification C
Internal Pressure Coefficient +/- 0.18

- Design Base Shear (Ultimate):
Plan E-W 8 kips
Plan N-S 4 kips

- 1.3.5 Seismic Loads
Risk Category IV
Seismic Importance Factor 1.0
Site Class C
Mapped Spectral Acceleration, Ss 0.164 g
Mapped Spectral Acceleration, S1 0.055 g
Spectral Response Coeff., Sds 0.131 g
Spectral Response Coeff., Sd1 0.062 g
Seismic Design Category A

SECTION 2 - FOUNDATIONS AND RELATED EARTHWORK

GEOTECHNICAL REPORT

- 2.1 Design of foundations and structural components in contact with soil is based on the recommendations given in the following:

- Report by : Terracon
Date of Report : September 7, 2021
Report Number : 25215031

- 2.2 Refer to the soil report for subsol conditions that may be encountered in the installation of foundations, and other information relevant to foundations and site preparation.

SOIL IMPROVEMENT UNDER BUILDING SLABS

- 2.8 Design of soil-supported building slabs is based on a range of soil movement of 0 inches to 1 inch, based on the recommendations of Geotechnical Report.

- 2.9 Slab on Grade Bearing Material : 5ft CDOT Class 1 structural fill over 10ft engineered fill

- 2.10 CONCRETE FOOTINGS AND EQUIPMENT PADS
Foundations at Equipment Yard:
Bearing Material : 5ft CDOT Class 1 structural fill over 10ft engineered fill measured from bottom of lowest footing
Max Allowable Bearing Pressure : 3000 psf
Coefficient of Friction (Foundation/Soil) : 0.3
Total Movement : 1"
Differential Movement : 3/4" over 30 ft

- 2.11 Exterior footings shall bear a minimum of 36 inches below finish grade.

- 2.12 Required footing thickness is minimum and shall be adjusted as necessary to achieve required bearing conditions.

- 2.13 Steel dowels at tops of footings shall extend 30 bar diameters above and shall be hooked 3" above bottom of footing unless noted otherwise.

- 2.14 Top of footing elevations given are relative to reference elevation 100'-0".

EARTH RETAINING WALLS

- 2.15 Design of earth-retaining walls is based on equivalent hydrostatic pressure of 80 & 60 pounds per cubic foot at rest and active, respectively, and friction factor of 0.3 as recommended in soil report; based on the following:

- a) Porous, free-draining backfill
b) Perimeter drain
c) Maximum retained height of 5ft

SECTION 3 - STRUCTURAL CONCRETE

SECTION 3.1 - CONCRETE FORMS

- 3.1.1 Formed Voids - Provide retained void spaces between bottom of structural members and subgrade as follows:

- Grade Beams & Pier Caps
Within Building Footprint: 6 inches
Grade Beams & Pier Caps
Outside Building Footprint: 12 inches

- 3.1.2 Grade beams, foundation walls, pilasters, and pedestals shall be formed on vertical surfaces unless specifically shown or noted otherwise.

SECTION 3.2 - STEEL REINFORCING

- 3.2.1 All bars shall be deformed in accordance with ASTM A615. Reinforcing indicated to be welded shall conform to ASTM A706.

- 3.2.2 Strength of bars shall be Grade 60.

- 3.2.3 SPLICING OF REINFORCING BARS
Top bars in beams and slabs shall be spliced at midspan between supports, unless noted otherwise.

- 3.2.4 Bottom bars in beams and slabs shall be spliced at supports, unless noted otherwise.

- 3.2.5 LAPPED SPLICE LENGTHS
Lap reinforcing 30 bar diameters at splices unless noted or detailed otherwise.

- 3.2.6 Tension splice lengths shall be calculated in accordance with ACI 318. Use Class 'B' splices unless noted otherwise

- 3.2.7 Welded wire fabric splice length (overlap), measured between outermost cross wires of each fabric sheet, shall be at least one spacing of cross wires plus 2 inches, but in no case less than 6 inches.

- 3.2.8 CONCRETE COVER TO REINFORCING
Clearance from face of concrete to face of reinforcing:
Footings & Piers 3" top, sides, and bottom
Grade Beams 2" top and sides, 3" bottom
Pilasters & Pedestals 2"
Foundation Walls 2"
Equipment Pads 2" top and sides, 3" bottom

- 3.2.11 Start stirrup spacing in beams 2 inches outside of face of supports.

- 3.2.12 Single layer reinforcing in walls shall be placed at center of walls unless noted otherwise.

SECTION 3.3 - CONCRETE MIX DESIGNS

- 3.3.1 Concrete Mix Schedule:
a) "HRC" refers to hardrock concrete having air dry unit weight of approximately 145 PCF.
b) Where w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
c) Where the w/c ratio is shown, it shall be adhered to regardless of strength requirements.
d) "Strength" is required compressive cylinder strength at an age of 28 days.

Conc. Class	Strength psi	Agg. Type	Agg. Size	Slump Inches	Max w/c	Notes
A	4000	HRC	1"	3-5	-	
B	4000	HRC	1"	3-5	0.50	
C	4500	HRC	1"	3-5	0.45	

- 3.3.2 Mix Usage Schedule:

Description of Use	Concrete Class	Air Content
Footings	A*	-----
Interior Slab-on-Grade	B	-----
Housekeeping Pads	B	-----
Exterior Slab-on-Grade	C*	4.5-7.5%
Perimeter Foundation Walls, Grade Beams, & Pilasters	C*	4.5-7.5%
Exterior Equipment Pads	C*	4.5-7.5%

Elements marked with '' shall utilize Type V Portland cement.

SECTION 3.5 - CONCRETE SLABS

- 3.5.1 Slabs Placed on Grade
Location Thickness Reinforcing
Typical, UNO 8 inches See typical details

- a) See details for placement of slab reinforcing.
b) Allow minimum of 4 days interval between placing adjacent sections of slab.
c) Submit construction joint layout for Architect review and approval.

SAWJOINTS

- 3.5.2 Schematic sawjoint layout is shown on plan based on the criteria below. Sawjoint layout plan shall be submitted for approval prior to pouring concrete slab. Layout of sawjoints shall be based on the following:
a) A maximum center to center spacing of sawjoints in both directions of 15 feet.
b) Sawjoints shall be located on column grid lines whenever possible.
c) The ratio of sawjoint spacing in each direction shall not exceed 1.5 to 1. Example: with sawjoints spaced at 10 feet on center in the N-S direction, the E-W direction shall be spaced at a maximum of 15 feet on center.
d) Sawjoints shall be located at each interior corner of the building.

SECTION 3.6 - DRILLED IN ANCHORS

- 3.6.1 Drill holes with rotary impact hammer drill using carbide tipped bits. Drill bits shall be of the diameter as specified by the anchor manufacturer. All holes shall be drilled perpendicular to the concrete or masonry surface.

- 3.6.2 Embedded items: Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Exercise care in drilling to avoid damaging existing reinforcing or embedded items. Notify the Engineer if reinforcing steel or other embedded items are encountered during drilling. Take precautions as necessary to avoid damaging electrical and telecommunications conduit, and gas lines.

- 3.6.3 Base Material Strength: Unless otherwise specified, do not drill holes in concrete or masonry until concrete, mortar, or grout has achieved full design strength.

TESTING

- 3.6.4 Inspection of anchors shall be performed at the frequency noted in the Statement of Special Inspections. Remove and replace mis-placed or malfunctioning anchors. Clean and fill empty anchor holes and patch failed anchor locations with high-strength nonshrink, nonmetallic grout. Anchors that fail to meet proof load or installation torque requirements shall be regarded as malfunctioning. Proof loading of adhesive anchors is not required unless noted otherwise.

EXPANSION, UNDERCUT, SCREW AND ADHESIVE ANCHORS

- Concrete base material: provide anchors of size and type shown with ICC-ES or IAPMO-UES compliance required

Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917)

Screw Anchors: Hilti Kwik HUS-EZ (ICC-ES ESR-3027)

Adhesive Anchors: Hilti HIT-HY 200 Safe Set System (ICC-ES ESR-3187) for use with Hilti HIT-Z Rod, HAS-E Rod, & Hollow Drill Bit

Hilti HIT-RE 500-V3 Safe Set System (ICC-ES ESR-3814) for use with Hilti HAS-E Rod, Hollow Drill Bit & Hilti Roughening Tool
Hilti HIT HY-200 (ICC-ES ESR 3187)

- 3.6.6 Anchors outside of the building envelope exposed to weather shall be galvanized or stainless steel.

- 3.6.7 Grout filled CMU (Concrete Masonry Unit) base material: provide anchor of size and type shown in ICC-ES or IAPMO-UES compliance required

Adhesive Anchors: Hilti HIT-HY 200 (ICC-ES ESR-3963) for use with Hilti HAS-E Rod, Rebar

INSTALLATION

- 3.6.7 Perform anchor installation in accordance with manufacturer's printed installation instructions (MPII).

- 3.6.8 Protect threads from damage during anchor installation.

- 3.6.9 IBC 2018 requires ACI/CRSI certification for adhesive anchor installers (AAI). Installers of adhesive anchors shall hold a current AAI certification as accredited by ACI/CRSI in accordance with ACI 318-14 17.8.2.2. Anchor Manufacturer Installation Training is acceptable as a supplement to ACI/CRSI AAI training. Installers shall submit their certifications to the inspector (testing lab) for each installation.

- 3.6.10 Adhesive for rebar and anchors shall have been tested in accordance with ACI 355.4 and ICC-ES AC308 for cracked concrete. Design adhesive bond strength has been based on ACI 355.4 Temperature Category A with installations into dry holes using a carbide drill bit into cracked concrete that has cured for at least 21 days. Adhesive anchors requiring certified installations shall be installed by a certified adhesive anchor installer per ACI 318-14 17.8.2.2. Installations requiring certified installers shall be inspected per ACI 318-14 17.8.2.4.

SECTION 4 - DEFERRED SUBMITTALS

- 4.1 Submittal documents for deferred submittals shall be submitted to the architect, who shall review and forward to the building official indicating the submittal has been reviewed and is found to be in general conformance with the design documents. Items of the deferred submittal shall not be fabricated or installed until the submittal has been reviewed and approved by the building official.

- 4.2 Items requiring deferred submittals
1. Guard Booth Superstructure

- 4.3 The above submittals shall be signed and sealed by a registered professional engineer licensed in the state of Colorado. See Specifications for additional submittal requirements.

STATEMENT OF SPECIAL INSPECTIONS NOTES:

This Statement of Special Inspections is submitted in accordance with Section 1704 of the 2015 International Building Code (referenced herewith as CBCO). It includes a Schedule of Special Inspection Services applicable to the Project. If applicable, it includes Requirements for Seismic Resistance and/or Requirements for Wind Resistance.

The Owner shall employ one or more qualified Special Inspectors to perform this work. Prior to the start of construction, Special Inspector(s) shall provide written documentation to the Building Official demonstrating the competence and relevant experience or training of the Special Inspectors who will perform the Special Inspections and tests during construction. The Special Inspector(s) shall keep records of Special Inspections and tests. The Special Inspector(s) shall submit reports of Special Inspections and tests to the Building Official and to the Registered Design Professional in Responsible Charge. Reports shall indicate that work inspected or tested was or was not completed in conformance to approved Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A final report documenting required special inspections and tests, and corrections of any discrepancies noted in the inspections or tests, shall be submitted at a point in time agreed upon prior to the start of work by the Owner or the Owner's authorized agent to the Building Official.

The Special Inspection program does not relieve the Contractor of responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor. The construction or work for which Special Inspection or testing is required shall remain accessible and exposed for Special Inspection or testing purposes until completion of the required Special Inspections or tests.

See specifications for additional testing requirements. Where conflicts occur, the most stringent requirement shall control.

INSPECTION OF FABRICATORS:

Where fabrication of structural, load-bearing, or lateral load-resisting members or assemblies is being conducted on the premises of a fabricator's shop, Special Inspection of the fabricated items shall be required in accordance with Section 1704.2 of the Code and as required elsewhere in the Code.

INSPECTION OF CONCRETE CONSTRUCTION:

Special Inspections and tests of concrete construction shall be performed in accordance with Section 1705.3 of the Code and with Table 1705.3.

Special Inspections of welding and qualifications of Special Inspectors for reinforcing bars shall be in accordance with the requirements of AWS D14 for Special Inspection and of AWS D14 for Special Inspector qualification.

In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapter 19 and 20 of ACI 318, the Building Official shall require testing of materials in accordance with the appropriate standards and criteria for the material in Chapters 19 and 20 of ACI 318.

INSPECTION OF SOILS:

Special Inspections and tests of existing site soil conditions, fill placement and load-bearing requirements shall be performed in accordance with Section 1705.5 of the Code and Table 1705.5. The approved geotechnical report and the Construction Documents prepared by the Registered Design Professionals shall be used to determine compliance. During fill placement, the Special Inspector shall verify that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report.

SCHEDULE OF SPECIAL INSPECTION SERVICES TABLE 1705.3: REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION			
CHECK IF REQ'D	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
☒	1. Inspect reinforcement, including prestressing tendons, and verify placement.	---	X
☒	2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706. b. Inspect single-pass fillet welds, maximum 5/16" and c. Inspect all other welds.	---	X
☒	3. Inspect anchors cast in concrete.	X	---
☒	4. Inspect anchors post-installed in hardened concrete members. a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in a.a.	X	---
☒	5. Verifying use of required design mix.	---	X
☒	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	---
☒	7. Inspect concrete and shotcrete placement for proper application techniques.	X	---
☒	8. Verify maintenance of specified curing temperature and techniques.	---	X
☐	9. Inspect prestressed concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons.	X	---
☒	10. Inspect erection of precast concrete members.	---	X
☐	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
☒	12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.	---	X

SCHEDULE OF SPECIAL INSPECTION SERVICES TABLE 1705.6: REQUIRED VERIFICATION AND INSPECTION OF SOILS			
CHECK IF REQ'D	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
☒	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 controlled fill.	X	---
☒	5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	---	X

SPECIAL INSPECTIONS REQUIREMENTS - IBC 1704

PRIOR TO THE START OF CONSTRUCTION, THE OWNER OR OWNER'S AUTHORIZED AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION AS REQUIRED BY THE STRUCTURAL ENGINEER IN THEIR STATEMENT OF SPECIAL INSPECTIONS. THE SPECIAL INSPECTOR'S QUALIFICATIONS AND WRITTEN REPORTS SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND MADE AVAILABLE TO THE BUILDING INSPECTOR ON THE JOBSITE. THE BUILDING DIVISION WILL ONLY ISSUE A CERTIFICATE OF OCCUPANCY AFTER ALL SPECIAL INSPECTION REPORTS, AND THE FINAL SPECIAL INSPECTION REPORT, HAVE BEEN SUBMITTED AND ACCEPTED.

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

RSN: 1755228
Permit #: 23-2389684-CM

City of Aurora Building Division
Reviewed for code compliance
Approved as Noted Anderson
Date: Oct 27, 2022
2015 INTERNATIONAL CODES & 2020 NEC



SLAB-ON-GRADE SCHEDULE				
SLAB THICKNESS (T)	CLEAR COVER	SLAB REINFORCING	SMOOTH DOWELS	CONSTRUCTION JOINTS
8"	2 1/2"	#4 @ 18 EW	1" DIA X 1'-4" @ 12	#5 @ 0 @ 12

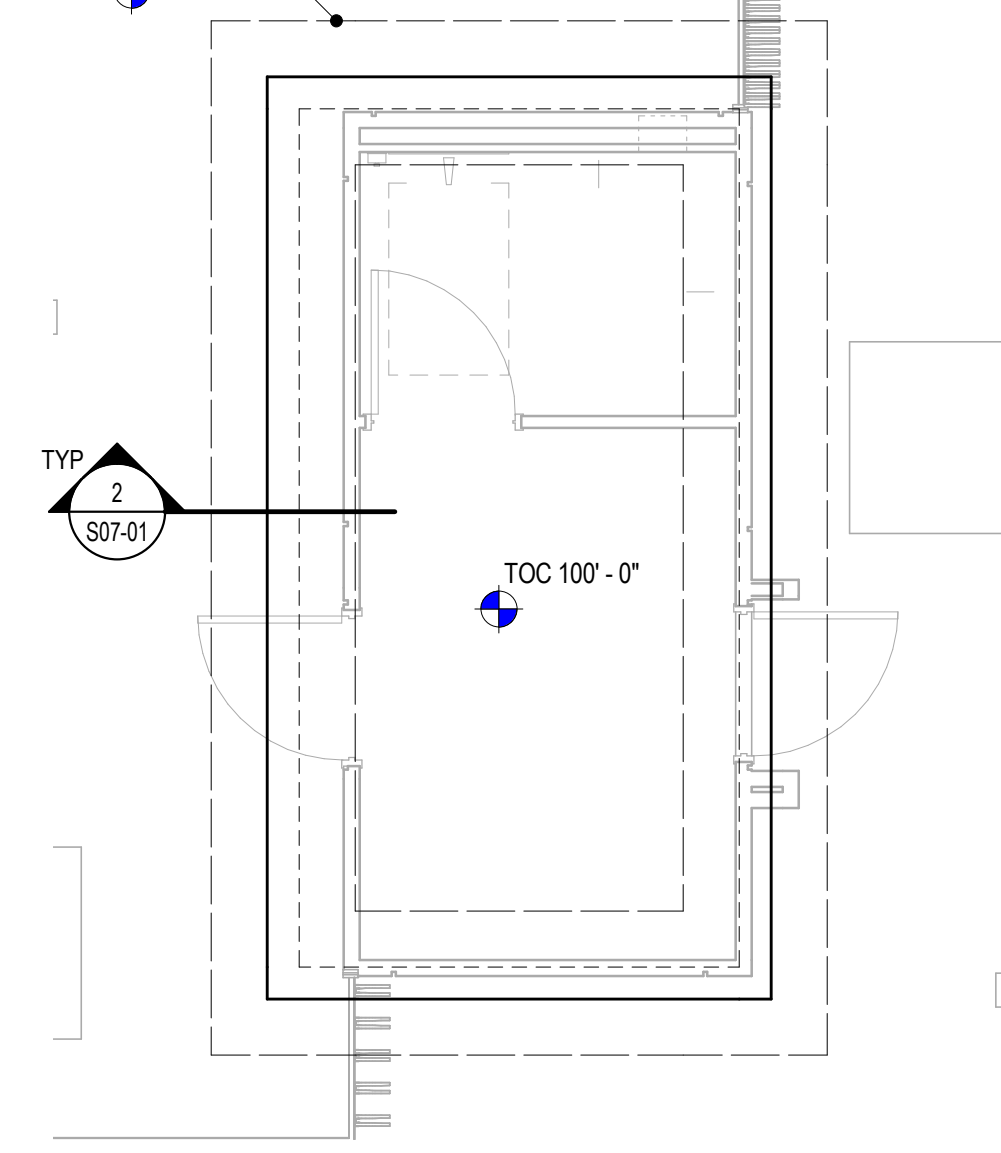
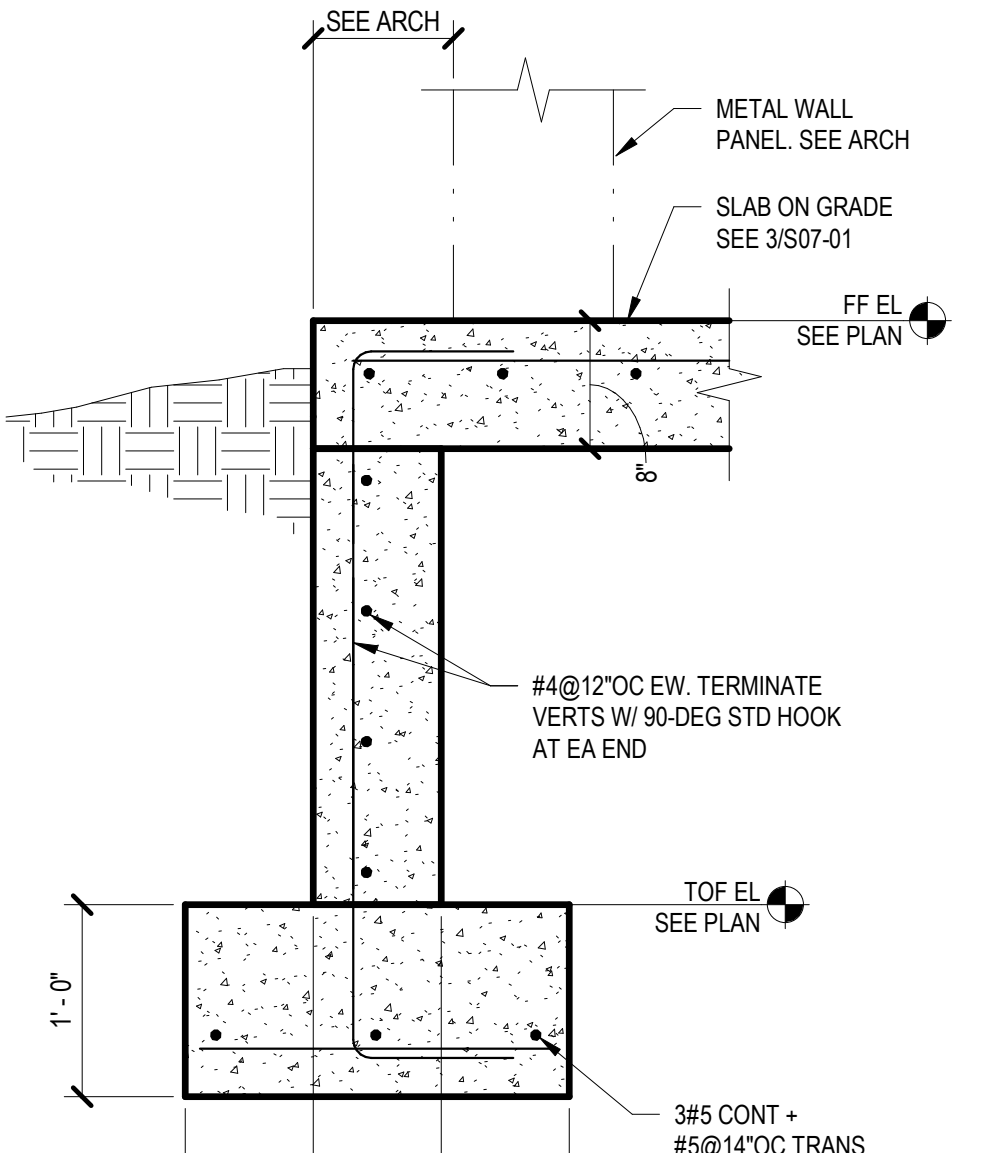
PROVIDE CONSTRUCTION JOINTS W/ SMOOTH DOWELS UNLESS SPECIFICALLY NOTED OTHERWISE
1/8" RADIUS EACH SIDE OF JOINT, PROVIDE SAW CUT IF JOINTS ARE TO BE SEALED

SMOOTH DOWEL OR TIE BAR
1ST POUR
2ND POUR
CONSTRUCTION JOINT DETAIL
COAT WITH OIL PRIOR TO 2ND POUR
FORMED BUTT JOINT

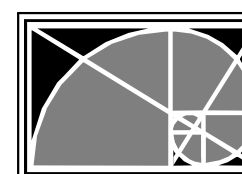
SAW CUT JOINT
SAW JOINT DETAIL
REINF CONTINUOUS THRU SAW JOINT LOCATIONS

SLAB-ON-GRADE TYPICAL DETAIL

3 NO SCALE
1" = 1'-0"



1 GUARDBOOTH FOUNDATION PLAN
1/4" = 1'-0"



L.A. FUESS PARTNERS, INC.
Structural Engineers
211 Congress Street, Suite 600
617-945-5700 • www.lafp.com
LAFF PROJECT NO. 15000

Page 9 of 43

TELECOM SHEET LIST Guard Booth	
T00-01S	LEGEND AND ABBREVIATIONS
T02-01GB	CONVEYANCE PLAN - LEVEL ONE - GUARD BOOTH
T03-01GB	DEVICE PLAN - LEVEL ONE - GUARD BOOTH
T03-50.1	DEVICE DETAILS
Grand total: 4	

TELECOM SYMBOLS				
SYMBOL	DESCRIPTION	CABLES	FACEPLATE/TERMINATION	CONDUIT
# ▼	MULTI-PORT DATA OUTLET. # DENOTES QUANTITY OF CABLES	(#) CATEGORY 6 CABLES	4-PORT FACEPLATE	DUAL GANG BOX WITH A SINGLE GANG RING AT 18" AFF. (1) 1" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO NEAREST TELECOM TRAY
TV ▼	2-PORT DATA OUTLET, TELEVISION OR MONITOR	(2) CATEGORY 6 CABLES FOR TV LOCATION	2-PORT FACEPLATE	DUAL GANG BOX WITH A SINGLE GANG RING. HEIGHT TO BE COORDINATED WITH AUDIOVISUAL PLANS. (1) 1" CONDUIT TO ABOVE ACCESSIBLE CEILING IN CONFERENCE ROOM LOCATIONS PROVIDE ADDITIONAL DUAL GANG BOX WITH SINGLE GANG RING. (1) 1/4" CONDUIT TO FLOOR BOX
WP ▽	WALLPHONE	(1) CATEGORY 6 CABLE	1-PORT FACEPLATE	DUAL GANG BOX WITH A SINGLE GANG RING AT 48" AFF. (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO NEAREST TELECOM TRAY
# ⬮	MULTI-PORT FLOOR MOUNTED DATA OUTLET. # DENOTES QUANTITY OF CABLES	(#) CATEGORY 6 CABLES	2 OR 4-PORT FACEPLATE IN FLOORBOX	FLOOR BOX TO BE PROVIDED AND INSTALLED BY EC. (1) 1" 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO NEAREST TELECOM TRAY
WAP ▼	2-PORT DATA OUTLET, WIRELESS AP	(2) CATEGORY 6 CABLES FOR WAP	2-PORT SM BOX W/ 10' COILED CABLE	IN LOCATIONS WITH NO CEILING, DUAL GANG BOX WITH SINGLE GANG RING ON NEAREST WALL AT 10" AFF. (1) 1" CONDUIT TO NEAREST TELECOM TRAY
▽	VOICE/ANALOG OUTLET	(1) CATEGORY 6 CABLE	COORDINATE WITH EQUIPMENT	3/4" EMT INTO ASSOCIATED PANEL/EQUIPMENT OR 3/4" EMT TO DUAL GANG BOX WITH SINGLE GANG RING AT COORDINATED HEIGHT NEAR EQUIPMENT

GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PROJECT DRAWINGS.
2. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
3. THE CONTRACTOR IS TO CAREFULLY EXAMINE THE SCOPE OF WORK AND THE CONDITION UNDER WHICH THE PROJECT MUST BE EXECUTED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE CONSULTANT OR DESIGNATED REPRESENTATIVE BEFORE PROCEEDING WITH THE RELATED WORK IN QUESTION.
4. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL FIELD CONDITIONS MUST BE BRAN TO THE ATTENTION OF THE CONSULTANT OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
5. ALL WORK SHALL BE COMPLETED ACCORDINGS TO INDUSTRY STANDARDS AND SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE. WORK THAT IS DEEMED UNSUBSTANTIAL OR NOT TO INDUSTRY STANDARDS WILL BE SUBJECT TO REPLACEMENT OR REPAIR AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
6. PRIOR TO STARTING THE INSTALLATION, THE ASSIGNED INSTALLATION SUPERVISOR OR LEAD TECHNICIAN SHALL PARTICIPATE IN A WALK-THROUGH OF THE PROJECT LOCATION WITH THE CONSULTANT TO REVIEW THE INSTALLATION DOCUMENTATION.
7. THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY CORES STOPPED FOR PLACEMENT OF COMMUNICATIONS CABLING WITH APPROVED FIRE-STOPPING METHOD IN ACCORDANCE WITH LOCAL AND NATIONAL STANDARDS AND THE OWNERS ARCHITECT SPECIFICATIONS.
8. COORDINATE PENETRATIONS AND FIRESTOPPING WITH OTHERS. REFER TO CODE DRAWINGS FOR LOCATION OF FIRE RESISTANT RATED WALL, FLOOR, AND ROOF ASSEMBLIES.
9. IN SPACES WHERE CABLE TRAYS ARE INSTALLED AND CABLING IS TO PASS THROUGH FULL HEIGHT WALLS, THE CABLING IS TO PASS THROUGH FIRE RATED WALL SLEEVES. WALL SLEEVES ARE 14" GANGED. WALL SLEEVES ARE TO BE INSTALLED WITH THE LOWEST EDGE OF THE SLEEVE CLUSTERED EQUAL TO THE UPPER EDGE OF THE ADJACENT CABLE TRAY.
10. NO PERMANENT LINK CABLE SHALL BE LONGER THAN (90) METERS, IF THE CONTRACTOR OR BELIEVER BELIEVES THE CABLE LENGTH EXCEEDS (90) METERS, LENGTH, WRITTEN APPROVAL FROM THE OWNERS ARCHITECT/CONSULTANT WILL BE REQUIRED PRIOR TO INSTALLATION OF THE PERMANENT LINK CABLE.
11. THE CONTRACTOR SHALL PROVIDE, INSTALL, TERMINATE, PATH, TEST, LABEL AND DOCUMENT THE COMMUNICATIONS CABLING SYSTEM BASED ON THE PROJECT SPECIFICATIONS AND ACCOMPANYING DRAWINGS. THE STRUCTURED CABLING SYSTEM (SCS) SHALL INCLUDE COPPER AND FIBER OPTIC DISTRIBUTION SYSTEMS.
12. LABEL PATHWAYS, OUTLETS, EQUIPMENT, RACKS, CABINETS AND PANELS ACCORDING TO DIVISION 27 SPECIFICATIONS
13. THE CONTRACTOR IS RESPONSIBLE FOR PROPER CONNECTIVITY TO GROUND PER SYSTEM AND INDUSTRY STANDARD REQUIREMENTS.
14. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE CONDUIT PATHWAYS FOR RV, DATA, SECURITY, EPMs, AND BMS UNLESS NOTED OTHERWISE IN THE ASSOCIATED "T" SERIES DRAWINGS AND DIVISION 27 SPECIFICATIONS.
15. INSTALL PLUMB STRINGS IN CONDUITS OVER 10 FEET IN LENGTH AT THE TIME OF CONDUIT INSTALLATION.
16. MINIMUM SWEEP DIUS FOR 4" DIAMETER UNDERGROUND CONDUIT IS 48".
17. COORDINATE EPMs/BMS LOCATIONS WITH OTHER DISCIPLINES.

[illegible]

LINE TYPE LEGEND	
NEW WORK	
DEMO WORK	
FUTURE WORK	
EXISTING WORK	

ABBREVIATIONS

AB	ABSOLUTE
ACF	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ANNMW	GEL-FILLED UNDERGROUND CABLE
AP	ACCESS POINT
ARF	ABOVE RAISED FLOOR
ARMRM	AIR-FILLED UTP RISER CABLE
ASP	ALUMINUM STEEL POLYETHYLENE
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
B	BELL
BAS	BUILDING AUTOMATION SYSTEM
BC	BARE COPPER
BCR	BUILDING COMMUNICATIONS ROOM
BGY	BULK GAS YARD
BLDG	BUILDING
BCC	BOTTOM OF CONDUIT
BOD	BOTTOM OF DUCT
BOM	BILL OF MATERIALS
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BOT	BOTTOM OF TRAY
BOTT	BOTTOM
BOV	BOTTOM OF VAULT
BOW	BOTTOM OF WIREWAY
BOZ	BOTTOM OF ZONE
BSD	BOTTOM OF STEEL DECK
C	CONDUIT
CATV	COMMUNITY ACCESS TELEVISION
CB	CIRCUIT BREAKER
CC	CONTROL CABLE
CCR	CAMPUS COMMUNICATIONS ROOM
CFM	CHEMICAL DISPENSING MODULE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CIM	COMMUNICATIONS INTERFACE MODULE
CKT	CIRCUIT
CLG	CEILING
CLR	CLEANROOM
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CP	CONSOLIDATION POINT
CR	COMPUTER ROOM
CRE	CORROSION RESISTANT
CRS	COATED RSD STEEL CONDUIT
CRWP	CLEANROOM WALL PANEL
DAS	DISTRIBUTED ANTENNA SYSTEM
DBS	DIGITAL BROADCAST SYSTEM
DCMS	DATA CENTER MANAGEMENT SYSTEM
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER

ABBREVIATIONS

DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DS	DUCT SECTION
DTE	DATA TERMINAL EQUIPMENT
DTL	DETAIL
DWG	DRAWING
E	EMPTY
EA	EACH
EF	ENTRANCE FACILITY
EL, E	ELEVATION
ELC	ELECTRIC
EM	EMERGENCY
EMC	ELECTROMAGNETIC COMPATIBILITY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENET	ETHERNET NETWORK
ENL	ELECTRICAL NON-METALLIC TUBING
ENP	ELECTRICAL POWER MONITORING SYSTEM
EQ	EQUAL
ER	EQUIPMENT ROOM
ERT	EMERGENCY RESPONSE TEAM
EX, (E)	EXISTING
(F)	FUTURE
FA	FIRE ALARM
FBS	FURNISHED BY OTHERS
FCS	FACILITY CONTROL SYSTEM
FCY	FACILITY
FDDI	FIBER DISTRIBUTED DATA INTERFACE
FDR	FEEDER
FDU	FIBER OPTIC DISTRIBUTION UNIT
FEXT	FIRE EXTINGUISHER
FF	FINISH FLOOR
FL	FINISH GRADE
FR	FLOOR
FMS	FACILITY MANAGEMENT SYSTEMS
FO	FIBER OPTIC
FOC	FACILITY OPERATION CENTER
FT	FOOT/FEET
G	GROUND
GALV	GALVANIZED
GCS	GLOBAL COMMUNICATIONS SYSTEMS
GNB	GLOBAL NETWORK SERVICES
GWS	GYPSUM WALLBOARD
H	HORN
HAC	HOT ASLE CONTAINMENT
HB	HORIZONTAL BEND
HC	HORIZONTAL CROSS-CONNECT
HDBD	HARDBOARD
HH	HANDHOLE
HORIZ	HORIZONTAL
HT, (H)	HEIGHT
HV	HIGH VOLTAGE

ABBREVIATIONS

WAC	HEATING, VENTILATING & AIR CONDITIONING
I&C	INSTRUMENTATION AND CONTROL
IO	INPUT/OUTPUT
IW	IN ACCORDANCE WITH
IC	INTERMEDIATE CROSS-CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
ICD	INTERMEDIATE METALLIC CONDUIT
IN	INCHES/INCH
INSUL	INSULATION
ISON	INTEGRATED SERVICES DIGITAL NETWORK
IT	INFORMATION TECHNOLOGIES
LAN	LOCAL AREA NETWORK
LED	LIGHT EMITTING DIODE
LMC	LIGHTQUIGHT FLEXIBLE METAL CONDUIT
LMD	LIGHTQUIGHT FLEXIBLE NONMETALLIC CONDUIT
LSS	LIFE SAFETY SYSTEMS
LV	LOW VOLTAGE
MATL	MATERIAL
MAX	MAXIMUM ACCESS UNIT
NAX	MAXIMUM
MC	MAIN CROSS-CONNECT
MCR	MAIN COMMUNICATIONS ROOM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MHz	MEGAHERTZ
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MULTIMODE
MNR	MEET ME ROOM
MOR	MIDDLE OF ROW
MT, MTD	MOUNT, MOUNTED
MTL	METAL
MTP	MULTIFIBER TERMINATION PUSH-ON
(N)	NEW
NA	NOT APPLICABLE
NEXT	NEAR END CROSS TALK
NIC	NOT IN END CONTRACT
NP	NOT IN PROJECT
NP	NAMEPATE
NTS	NOT TO SCALE
OC	ON CENTER
OF	OWNER FURNISHED, CONTRACTOR INSTALLED
OFNOI	OPTIC FIBER NONCONDUCTIVE RISER
OFNOI	OWNER FURNISHED, OWNER INSTALLED
OFNOI	OPERATOR INTERFACE TERMINAL
OM3	OPTICAL MULTIMODE 3
OM4	OPTICAL MULTIMODE 4
OSP	OUTSIDE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER

ABBREVIATIONS

P/N	PART NUMBER
PA	PUBLIC ADDRESS
PAC	PIC-ASSEMBLED CONTAINER
PB	PULL BOX
PBX	PRIVATE BRANCH EXCHANGE
PCCR	PRIMARY CORPORATE CABLE ROOM
PL	PLATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	PROJECT MANAGER
PMO	PROJECT MONITOR OUTLET
PMS	POWER MONITORING SYSTEM
PNL	PANEL
POTS	PAN OLD TELEPHONE SYSTEM
PR	PAIR
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY. (X)	QUANTITY
(R)	RELOCATE
(RD)	REDUNDANT
R	RISER
RCPT	RECEPTACLE
REF	REFERENCE
REQD	REQUIRED
RF	RADIO FREQUENCY
RFI	REQUEST FOR INFORMATION
RGS	RIGID GALVANIZED STEEL CONDUIT
RH	RELATIVE HUMIDITY
RM	ROOM
RO	ROUGH OPENING
R	RACK UNIT(S)
S	SPEAKER
S	TYPE OF FIBER OPTIC CONNECTOR
SCC	SATELLITE COMMUNICATIONS CABINET
SCC	SECONDARY CORP CABLE ROOM OR SATEL
SCCH	SCHEDULE
SCC	SATELLITE COMMUNICATIONS ROOM
SDC	SERVICES DURING CONSTRUCTION
SE	STATION EQUIPMENT
SECT	SECTION
SEG	SEGMENT
SHT	SHEET
SIB	STRUCTURAL ISOLATION CABLE
SIM	SIMILAR
SLV	SPECIALLY LOW VOLTAGE
S	SINGLE MODE
SRL	STRUCTURAL RETURN LOSS
SS	STAINLESS STEEL
ST	TYPE OF FIBER OPTIC CONNECTOR
STD	STANDARD

ABBREVIATIONS

STL	STEEL
STP	SHIELDED TWISTED PAIR
STRUCT	STRUCTURAL
SUR	SURFACE
SW	SWITCH
SYM	SYMMETRICAL
TB	TERMINAL BLOCK
TBD	TO BE DETERMINED
TDR	TIME DOMAIN REFLECTOMETER
TO	TELECOMMUNICATIONS OUTLET
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
UTP3	CATEGORY 3, 4 PR UTP CABLE
UTP5E	CATEGORY 5E, 4 PR UTP CABLE
UTP6	CATEGORY 6, 4 PR ENHANCED UTP CABLE
VCT	VINYL COMPOSITION TILE
VIB	VERTICAL INSIDE BEND
VOB	VERTICAL OUTSIDE BEND
VP	VAPORPROOF
VRFY	VERIFY
W	WIDE/ WIDTH
W/	WITH
W/O	WITHOUT
WA	WORK AREA
WAN	WIDE AREA NETWORK
WECO	WESTERN ELECTRIC COMPANY
WLAN	WIRELESS LOCAL AREA NETWORK
WP	WALLPHONE
WT	WEIGHT

This sheet of drawings has not been reviewed for code compliance.

KEY NOTES	
1	PROVIDE (1) 4" CONDUIT ROUTED FROM GUARD SHACK TO MAIL ROOM IT-EQUIPMENT ENCLOSURE. CONDUITS SHALL BE ROUTED TO NEAREST FIBER SERVICE HANDHOLE AND BE ROUTED IN COMMON DUCT BANK BACK TO THE BUILDINGS. COORDINATE EXACT STUB UP LOCATION INSIDE THE BUILDINGS WITH LOW VOLTAGE INSTALLER.

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ISSUES

1

12.03.2021

ISSUE FOR PERMIT

2

05.13.2022

ISSUE FOR CONSTRUCTION

3

11.07.2022

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REVISIONS

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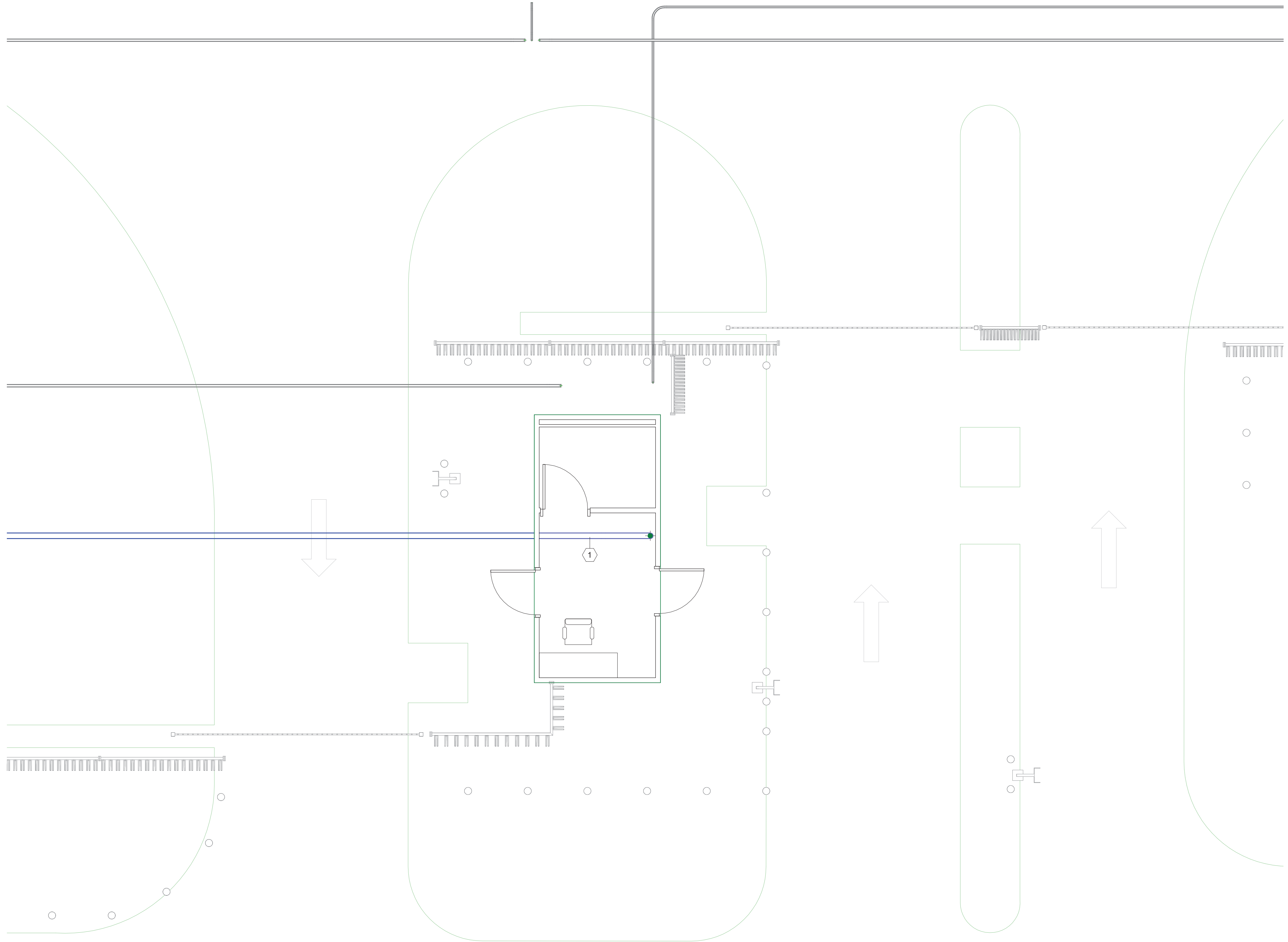
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Engineer: JAMES L. WARREN, P.E.
License #: 40434 Exp. Date: 09.30.2023

COLORADO LICENSED PROFESSIONAL ENGINEER

JAMES L. WARREN

40434

Date: 01/12/2023



1 CONVEYANCE PLAN - LEVEL ONE - GUARD SHACK
1/4" = 1'-0"

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QTS-DEN1-DC1 GUARDBOOTH

1164 N. GUN CLUB ROAD
AURORA, CO

QTS

CONVEYANCE PLAN
- LEVEL ONE -
GUARD BOOTH

JOB

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40434

COLORADO LICENSED

Date: 01/12/2023

QTS-DEN1-DC1 GUARDBOOTH

1164 N. GUN CLUB ROAD
AURORA, CO

QTS

DEVICE PLAN -
LEVEL ONE - GUARD
BOOTH

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DATE

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Page 12 of 13

1/12/2023 9:40:27 AM DEVICE PLAN - LEVEL ONE - GUARD BOOTH



Page 13 of 13