

PORT OF TACOMA

RADIATION PORTAL MONITOR PROJECT STRADDLE CARRIER PORTAL (SCP) BOOTH REPLACEMENT

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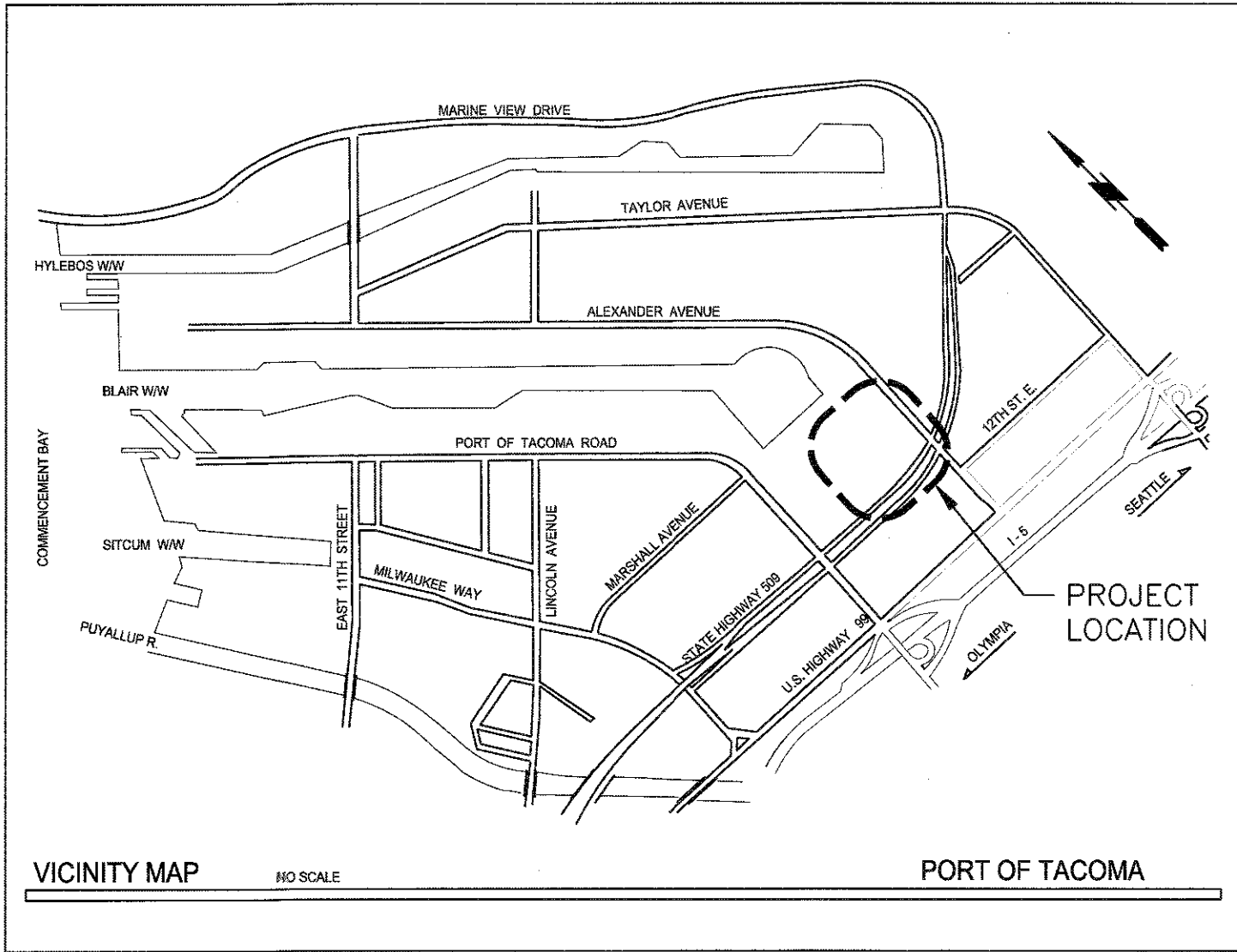
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DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
RPM1	1	COVER SHEET	2
RPM2	2	LEGEND	2
RPM3	3	GENERAL NOTES	2
RPM4	4	GENERAL NOTES	2
RPM5	5	SITE PLAN	2
RPM6	6	ENLARGED SITE PLAN	2
RPM7	7	BOOTH PLAN	2
RPM8	8	BOOTH EXTERIOR ELEVATIONS	2
RPM9	9	BOOTH PLAN	2
RPM10	10	BOOTH INTERIOR ELEVATIONS	2
RPM11	11	BOOTH INTERIOR ELEVATIONS	2
RPM12	12	BOOTH SECTIONS AND DETAILS	2
RPM13	13	BOOTH SECTIONS AND DETAILS	2
RPM14	14	SECTIONS AND DETAILS	2
RPM15	15	ENLARGED CONDUIT PLAN	2
RPM16	16	PANEL SCHEDULE	2
RPM17	17	WIRING SCHEMATIC	2
RPM18	18	SCHEDULES	2

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DIRECTOR CXC DATE
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PMG 4/29/16
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SECTION: RANGE: TOWNSHIP: 070661
DATE-HRZ: DAT-1056.01
PARCEL: BID SET

REVISION:
1 NO CHANGE
2 CITY COMMENTS

DATE: 6/9/16
BY: MTD
APP: PMG
DATE: 6/9/2016
BY: MTD
APP: PMG

RPM1
SH 1 OF 18
CONT/CONS: 070661
M. ID: 101056.01
PHASE: BID SET

RADIATION PORTAL MONITOR PROJECT
STRADDLE CARRIER PORTAL (SCP)
BOOTH REPLACEMENT
COVER SHEET

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LEGEND

	NEW STRUCTURE OR EQUIPMENT (ABOVE GRADE)	A/F	AERIAL FIBER	NEC	NATIONAL ELECTRICAL CODE
	EXST STRUCTURE, EQUIPMENT OR CONDUIT (ABOVE GRADE)	AC	AIR CONDITIONER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	NEW CONDUIT ROUTING (ABOVE GRADE)	ACI	AMERICAN CONCRETE INSTITUTE	NIC	NOT IN CONTRACT
	NEW CONDUIT ROUTING (BELOW GRADE OR IN TRENCH)	AEI	AUTOMATIC EQUIPMENT IDENTIFICATION	NII	NON-INTRUSIVE INSPECTION
	EXST CONDUIT (ABOVE/BELOW GRADE TO BE UTILIZED)	AFF	ABOVE FINISHED FLOOR	OC	ON CENTER
	NEW DIRECT BURIED FIBER (IN SAW CUT)	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	OH	OPPOSITE HAND
	NEW FIBER	ANI	ALARM ANNUNCIATOR (INDOOR)	OIT	CBP OFFICE OF INFORMATION TECHNOLOGY
	NEW AERIAL FIBER (ABOVE GRADE)	ANN	ANNUNCIATOR	OSE	OPTICAL SENSOR EMITTER
	NEW FENCE	ANO	ALARM ANNUNCIATOR (OUTDOOR)	OSR	OPTICAL SENSOR RECEIVER
	NEW HMAC PAVEMENT	AR	AS REQUIRED	P	POWER
	NEW CONCRETE	ASC	AREA SURVEILLANCE CAMERA	PCXX	POWER CONDUIT
	X = DETAIL NUMBER Y = SHEET(S) WHERE DETAIL IS LOCATED	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	PDCA	PAINTING AND DETAILING CONTRACTORS OF AMERICA
	X = SECTION LETTER Y = SHEET(S) WHERE SECTION IS LOCATED	ASD	ALLOWABLE STRESS DESIGN	PF	PREFABRICATED
	NEW BOLLARD	ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	PL	PLACES
	EXST BOLLARD	AWG	AMERICAN WIRE GAUGE	PLC	PROGRAMMABLE LOGIC CONTROLLER
	CONDUIT "UP"	AWS	AMERICAN WELDING SOCIETY	PNNL	PACIFIC NORTHWEST NATIONAL LABORATORY
	CONDUIT "DOWN"	B	BEACON	POB	POINT OF BEGINNING
	CONDUIT "CAP"	BB	BATTERY BOX	POV	PRIVATELY OWNED VEHICLE
	DUPLEX ELECTRICAL OUTLET	BOBP	BOTTOM OF BASE PLATE	PP	PATCH PANEL
	EQUIPMENT (SEE EQUIPMENT LIST, LAST SHEET)	C/C	CENTER TO CENTER	PS	POWER SUPPLY
	LIGHT POLE	CAT6PP	CAT6 PATCH PANEL	PSF	POUNDS PER SQUARE FOOT
	POWER POLE	CB	CONTROL BOX	PSI	POUNDS PER SQUARE INCH
	AREA SURVEILLANCE CAMERA	CCB	COMMUNICATIONS CONTROL BOX	PTR	PRINTER
	SURGE PROTECTION DEVICE	CBP	U.S. CUSTOMS & BORDER PROTECTION	PTZ	PAN TILT ZOOM
		CCXX	COMMUNICATION CONDUIT	PVC	POLYVINYL CHLORIDE
		CDF	CONTROLLED DENSITY FILL (LEAN CONCRETE)	R	RELAY
		CL	CENTERLINE	RAI	REMOTE ALARM INDICATOR
		CG	CORD GRIP	RB	RELAY BOX
		CH	CHAPTER	RMC	RIGID METAL CONDUIT
		CI	CONTRACTOR INSTALLED	RO	REMOTE OPERATION
		CJP	COMPLETE JOINT PENETRATION	RPM	RADIATION PORTAL MONITOR
		CLR	CLEAR	RR	RAILROAD
		CMP	CORRUGATED METAL PIPE	RSP	RADIATION SENSOR PANEL
		CMU	CONCRETE MASONRY UNIT	S/N	SERIAL NUMBER
		CP	CONTRACTOR PROVIDED	SAE	SOCIETY OF AUTOMOTIVE ENGINEERS
		CS	CARBON STEEL	SCF	SAW CUT FIBER
		DOT	DEPARTMENT OF TRANSPORTATION	SD	STORM DRAIN
		DVR	DIGITAL VIDEO RECORDER	SFF	SMALL FORM FACTOR
		EMT	ELECTRICAL METAL TUBING	SOW	STATEMENT OF WORK
		ENET	ETHERNET	SP	SOURCE PANEL (EXISTING PANEL)
		ES	ETHERNET SWITCH	SPC	SUPERVISOR COMPUTER
		ETC	ET CETERA	SPD	SURGE PROTECTION DEVICE
		EXST	EXISTING	SS	STAINLESS STEEL
		FBB	FIBER BREAK OUT BOX	T&B	TOP AND BOTTOM
		FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	TA	TOP OF ASPHALT
		FPP	FIBER PATCH PANEL	TB	T STYLE CONDUIT BODY
		FS	FIBER SPLICE/COUPLER	TEL	TELEPHONE
		FT	FEET OR FOOT	TG	TOP OF GRAVEL
		G	NATURAL GAS	THHN	THERMOPLASTIC HIGH-HEAT RESISTANT NYLON COATED
		GA	GAUGE	THWN	THERMOPLASTIC HEAT AND WATER RESISTANT NYLON COATED
		GFE	GOVERNMENT FURNISHED EQUIPMENT	TL	TRAFFIC LIGHT
		GR	GRADE	TLC	TRAFFIC LIGHT CONTROLLER
		GSA	GENERAL SERVICES ADMINISTRATION	TLS	TRAFFIC LIGHT SWITCH
		HMAC	HOTMIX ASPHALT CONCRETE	TOC	TOP OF CONCRETE
		HMI	HUMAN-MACHINE INTERFACE	TS	TUBE STEEL
		IBC	INTERNATIONAL BUILDING CODE	TYP	TYPICAL
		IC	INTERCOM	UL	UNDERWRITERS LABORATORY INCORPORATED
		ICC	INTERNATIONAL CODE COUNCIL	UNC	UNIFIED NATIONAL COARSE
		IE	INVERT ELEVATION	UNO	UNLESS NOTED OTHERWISE
		IN	INCHES	UPS	UNINTERRUPTIBLE POWER SUPPLY
		IO	INSTALLED BY OTHERS	USGS	UNITED STATES GEOLOGICAL SURVEY
		JB	JUNCTION BOX	UV	ULTRA VIOLET
		LAN	LOCAL AREA NETWORK	VAC	VOLTAGE ALTERNATING CURRENT
		LB	L STYLE CONDUIT BODY	VDC	VOLTAGE DIRECT CURRENT
		LPR	LICENSE PLATE READER	VIS	VEHICLE IDENTIFICATION SYSTEM
		MAX	MAXIMUM	VLT	VAULT
		MC	MEDIA CONVERTER	VPI	VEHICLE PRESENCE INDICATOR
		MH	MAN HOLE	VPS	VEHICLE PRESENCE SENSOR
		MIN	MINIMUM	W	WATER
		MNC	MONITOR COMPUTER	WM	WATER METER
		MPH	MILES PER HOUR	WP	WEATHERPROOF
		MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	(X'-X")	REFERENCE DIMENSION OR INFO

RPM2
SH 2 OF 18

CONT/CONS: 070661
M. ID: 101056.01
PHASE: 010 SET

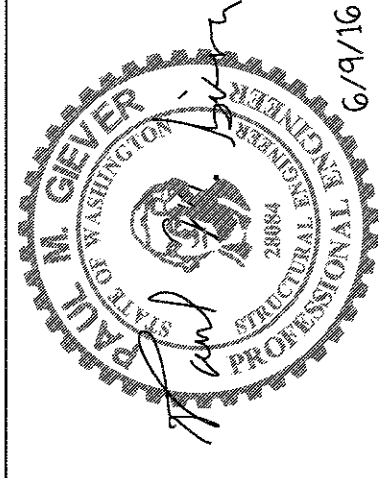
RADIATION PORTAL MONITOR PROJECT
STRADDLE CARRIER PORTAL (SCP)
BOOTH REPLACEMENT
LEGEND

TOWNSHIP: DAT-HRZ: PARCEL:
RANGE: VERT: DRAWING SCALE: NONE

APPROVED:

PROJECT NO: 7-13-17
DIRECTOR: [Signature]
PRINTED BY: mtdavalle Jun 09, 2016
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TACOMA, WA 98401-1837

CHECKED BY: DATE: PMG 4/29/16
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REVISION: 1 NO CHANGE
BY: MTD
DATE: 6/9/16
APPR: PMG
DATE: 6/9/2016



- 1.0. GENERAL
- 1.1 ALL CONSTRUCTION SHALL MEET OR EXCEED CURRENT INTERNATIONAL BUILDING CODE (ICC-IBC), NATIONAL ELECTRICAL CODE (NFPA 70), AND LOCAL REQUIREMENTS.
- 1.2 DESIGN DRAWINGS AND STATEMENT OF WORK (SOW) AND/OR TECHNICAL SPECIFICATION AND DIVISION 1 SPECIFICATION MAY EXCEED CODE REQUIREMENTS AND SHALL TAKE PRECEDENCE.
- 1.3 VERIFY ALL EXISTING SITE CONDITIONS ABOVE AND BELOW GRADE AND DIMENSIONS PRIOR TO BEGINNING WORK. THE PNNL SITE MANAGER OR CONSTRUCTION MANAGER SHALL BE NOTIFIED OF ANY DISCREPANCY. (DO NOT SCALE DRAWINGS)
- 1.4 ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS, AS APPLICABLE AND THE APPROVED DESIGN DOCUMENTS.
- 1.5 ALL SURFACES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AND ADJACENT SURFACE FINISH (COLOR, SLOPE, TEXTURE AND APPEARANCE).
- 1.6 ALL SIGNS SHALL COMPLY WITH STATE DOT STANDARDS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
- 1.7 CONTRACTOR SHALL MAINTAIN AND PROVIDE A SET OF RED LINE DESIGN DOCUMENTS (DRAWINGS, SPECIFICATIONS, ETC) TO PNNL INDICATING ALL CHANGES AND FIELD ROUTING AUTHORIZED BY PNNL DURING INSTALLATION.
- 1.8 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES AS DESCRIBED IN CONTRACT DOCUMENTS AND AS REQUIRED BY LOCAL JURISDICTION.
- 1.9 CONTRACTOR SHALL COORDINATE THE START OF AT-SITE WORK WITH THE PNNL SITE MANGER AND/OR CONSTRUCTION MANAGER.
- 1.10 PNNL SITE MANAGER OR CONSTRUCTION MANAGER SHALL BE NOTIFIED OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS.
- 1.11 CONTRACTOR SHALL CONDUCT LAYOUT FOR RPM HARDWARE AND BELOW GRADE SUBSTRUCTURE MARK AND LOCATE PRIOR TO START OF EXCAVATION WORK. PORT, CBP AND PNNL SHALL BEAR NO RESPONSIBILITY FOR EXPENSES INCURRED AS A RESULT OF FAILURE ON THE PART OF THE CONTRACTOR TO VERIFY DIMENSIONS AND/OR VERIFIABLE SITE CONDITIONS PRIOR TO BEGINNING WORK. SEE DIVISION 1 FOR MORE DETAILS.
- 1.12 PORT SHALL BEAR NO RESPONSIBILITY FOR FAILURE ON THE PART OF THE CONTRACTOR TO COORDINATE ACTIVITIES OF CONTRACTOR'S EMPLOYEES OR SUBCONTRACTORS.
- 1.13 ALL SALVAGEABLE ITEMS REMOVED DURING COURSE OF WORK SHALL REMAIN THE PROPERTY OF THE OWNER AND STORED/PROTECTED BY CONTRACTOR UNTIL OWNER TAKES POSSESSION, UNLESS OTHERWISE SPECIFIED.
- 1.14 CONTRACTOR SHALL CONTACT SUBSTRUCTURE OWNERS TO VERIFY LOCATIONS OF SUBSTRUCTURES (7 DAYS) PRIOR TO EXCAVATING.
- 1.15 WHERE CROSSING ANY SUBSTRUCTURES WITH NEW SUBSURFACE IMPROVEMENTS, THE CONTRACTOR SHALL TRENCH CAREFULLY TO LOCATE ALL ACTIVE AND IDLE SUBSTRUCTURES AT THESE CROSSINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- 1.16 ALL DEBRIS AND TRASH SHALL BE COLLECTED FROM SITE EACH DAY. CONTRACTOR IS RESPONSIBLE FOR THE COLLECTION, MANAGEMENT AND HAULING OF TRASH FROM SITE.
- 1.17 CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES---WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY.
- 1.18 ALL EQUIPMENT AND MATERIALS PROVIDED BY CONTRACTORS TO BE NEW.
- 1.19 IN CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS, DRAWINGS SHALL TAKE PRECEDENCE.
- 2.0 PHASING OF WORK
- 2.1 CONTRACTOR SHALL MAINTAIN AND PROVIDE UNINTERRUPTED ACCESS TO PORT FACILITIES AT ALL TIMES.
- 2.2 CONTRACTOR SHALL PROVIDE A TRAFFIC CIRCULATION PLAN FOR APPROVAL AT EACH WORK AREA FOR EACH PHASE OF CONSTRUCTION. APPROVAL SHALL BE OBTAINED 14 DAYS PRIOR TO COMMENCEMENT OF TRAFFIC CONTROL PROCEDURE.
- 3.0 STEEL
- 3.1 UNLESS SPECIFIED ELSE WHERE ALL STEEL SHALL BE ASTM A36.
- 3.2 WELDING QUALIFICATIONS AND FABRICATION FOR CARBON STEEL SHALL BE PER AWS D1.1-2002. PERFORM 100% VISUAL EXAMINATION OF ALL FINAL WELDS FOR FIELD WELDS AND WELDS ON STRUCTURAL COMPONENTS OR REBAR PER AWS D1.1-2002, SECTION 6, WITH ACCEPTANCE CRITERIA PER SECTION 6, PART C.
- 3.3 MINOR FIELD WELDING (UNI-STRUT, RELOCATABLE BASE PLATES, AND SIGNAGE) DOES NOT REQUIRE INSPECTION BY CERTIFIED WELD INSPECTOR. THE WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER. REMOVE PAINT/GALVANIZING PRIOR TO WELDING. REMOVE SLAG, WIRE BRUSH AND APPLY PRIMER/PAINT TO FINAL WELD. THE WELDS SHALL BE CONSISTENT WITH GOOD WELDING PRACTICES.
- 3.4 ALL STEEL PIPE TUBING SHALL BE ASTM A53, GRADE B.
- 3.5 FABRICATE ALL STRUCTURAL STEEL FOR CLOSE FIT WITH ERECTION HOLES ACCURATELY ALIGNED, AND WITHIN TOLERANCES GIVEN IN AISC MANUAL OF STEEL CONSTRUCTION.
- 3.6 REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 40 FOR BARS SPECIFIED AS #3'S AND SMALLER, ASTM A615 GRADE 60 FOR BARS SPECIFIED AS #4'S AND LARGER. BARS SHALL BE CONTINUOUS AROUND CORNERS AND LAPPED PER INTERNATIONAL BUILDING CODE.
- 4.0 PAINT
- 4.1 ALL SURFACES SHALL BE CLEANED AND PREPARED IN STRICT ACCORDANCE WITH THE PAINTING AND DECORATING CONTRACTORS OF AMERICA (PDCA) ARCHITECTURAL PAINTING AND WALL COVERING MANUAL.

- 4.2 EXTERIOR METAL
- PRIME COAT: C163 ALKYD OIL PRIMER (STEEL SURFACES ONLY)
- FINISH: EPOXY PAINT FOR MARINE ENVIRONMENT, DEVTRAN BRAND OR EQUAL
- COLOR: SAFETY YELLOW
- 4.3 TOUCH-UP METAL SURFACES AT COMPLETION OF INSTALLATION.
- 4.4 ALL TRAFFIC MARKINGS SHALL COMPLY WITH STATE DOT.
- 4.5 ALL TRAFFIC MARKINGS ON HMAc SHALL BE A REFLECTORIZED THERMOPLASTIC MATERIAL AS APPROVED BY STATE DOT.
- 4.6 ALL TRAFFIC MARKINGS ON CONCRETE SHALL BE PAVEMENT PAINT AS APPROVED BY STATE DOT.
- 5.0 EXCAVATION AND BACKFILL
- 5.1 TRENCHES AND OTHER EXCAVATIONS SHALL BE PLATED WITH STEEL PLATES OF A SIZE AND THICKNESS CAPABLE OF CARRYING TRAFFIC LOADS ANTICIPATED FOR THE GIVEN LOCATION WHEN THE CONTRACTOR IS NOT ON SITE.
- 5.2 CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL COMPLY WITH MUTCD AND LOCAL REQUIREMENTS.
- 5.3 CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REMOVAL WORK NECESSARY TO CONSTRUCT IMPROVEMENTS AND WITHIN THE APPROPRIATE SEQUENCE OF WORK SO AS TO MAINTAIN TRAFFIC AND PROMOTE SAFETY.
- 5.4 TRENCHING, SHORING, CONDUIT INSTALLATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH DRAWINGS, TECHNICAL SPECIFICATIONS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, SECTION 306-1.
- 5.5 OPEN TRENCH SHORING SHALL BE DONE IN ACCORDANCE WITH THE REGULATIONS OF OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND LOCAL JURISDICTIONS. PRIOR TO COMMENCING THE EXCAVATION OF TRENCHES 4 FEET IN DEPTH OR GREATER INTO WHICH A PERSON WILL BE REQUIRED TO DESCEND, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY EXCAVATION/TRENCHING PERMITS.
- 5.6 EARTH FILL MATERIAL FOR USE UNDER FOUNDATIONS, FOOTINGS, SLABS AND CONCRETE/ASPHALT IN TRAFFIC AREAS SHALL BE CLEAN, NON-EXPANSIVE, AND FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES. MATERIAL SHALL NOT BE PREDOMINANTLY OF ONE SIZE AND SHALL HAVE A SAND EQUIVALENT VALUE OF NOT LESS THAN 15 NOR GREATER THAN 60 PER ASTM D2419, 95-100% SHALL PASS THE 1-1/2 INCH SIEVE.
- 5.7 THE SIDES OF ALL TRENCHES AND EXCAVATIONS INSTALLED THROUGH EXISTING CONCRETE OR ASPHALT PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION. CONCRETE OVERCUTS SHALL BE FILLED WITH NON-SHRINK GROUT.
- 5.8 ALL TRENCH BACKFILL IN UNPAVED AREAS SHALL BE CDF TO 6" THICK AROUND CONDUIT. NO STONES LARGER THAN 6" ALLOWED IN NATIVE BACKFILL MATERIAL. COMPACT BACKFILL IN MAXIMUM 8" LIFTS TO 85% OF MAXIMUM DENSITY. STOCKPILE THE TOP 12" (TOPSOIL) SEPARATELY DURING EXCAVATION AND REPLACE TO MATCH EXISTING. REPAIR OR REPLACE LANDSCAPING OR TURF TO MATCH EXISTING. PROTECT IN PLACE OR REPAIR TO MATCH EXISTING IRRIGATION PIPING AND APPURTENANCES.
- 5.9 ALL TRENCH BACKFILL UNDER EXISTING CONCRETE AND ASPHALT PAVEMENT SHALL BE CDF TO 6" THICK AROUND CONDUIT. CDF OR COMPACTED BACKFILL SHALL THEN BE USED FOR THE REMAINDER OF THE TRENCH BACKFILL UP TO THE BASE OF EXISTING CONCRETE OR ASPHALT PAVEMENT.
- 5.10 CDF NOT TO BE USED IN SATURATED GROUND CONDITIONS OR STANDING WATER, CONTRACTOR SHALL SUBSTITUTE 4500 PSI CONCRETE AS NEEDED.
- 5.11 CONTRACTOR SHALL VERIFY THAT THERE WILL BE NO NEGATIVE IMPACT TO DRAINAGE DUE TO NEW WORK.
- 5.12 IF SOIL DISPOSED OF IS DETERMINED TO BE CONTAMINATED CONTRACTOR SHALL NOTIFY PNNL AND FOLLOW ALL APPROPRIATE REGULATIONS AND REQUIREMENTS.
- 6.0 COMPACTION
- 6.1 MINIMUM RELATIVE COMPACTION UNDER BUILDING FOUNDATIONS, FOOTINGS AND SLABS AND CONCRETE/ASPHALT TRAFFIC AREAS SHALL BE 95% OF MAXIMUM DRY DENSITY.
- 6.2 AT THE TIME OF COMPACTION, THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE SUCH THAT THE SPECIFIED COMPACTION MAY BE OBTAINED WITH THE COMPACTION EQUIPMENT BEING USED.
- 7.0 ELECTRICAL
- 7.1 ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND SUPPLEMENTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION SHALL BE CHECKED FOR CODE COMPLIANCE AND REWORK SHALL BE REQUIRED TO MEET CODE AS NECESSARY AT CONTRACTOR'S EXPENSE.
- 7.2 IN INSTANCES WHERE LOCAL CODE JURISDICTIONS DO NOT REQUIRE AN ELECTRICAL INSPECTION, THE CONTRACTOR WILL HIRE AN INDEPENDENT NEC QUALIFIED INSPECTOR TO INSPECT THE FINAL ELECTRICAL INSTALLATION.
- 7.3 ALL CABLES AND PULL STRINGS SHALL BE MARKED WITH A CABLE LABEL THAT HAS PERMANENT BLACK LETTERING ON A WHITE BACKGROUND. CABLE NOMENCLATURE SHALL BE CONSISTENT WITH THE CONDUIT SCHEDULE AND RPM SITE ELECTRICAL SCHEMATIC MARKINGS.
- 7.4 PROVIDE AND INSTALL CORRECT, TYPEWRITTEN, PANEL DIRECTORIES OF NEW OR REVISED PANEL AND/OR SUB-PANEL CIRCUITS.
- 7.5 PROVIDE AND INSTALL AN ELECTRONICALLY GENERATED OR ENGRAVED ADHESIVE LABEL FOR IDENTIFICATION AT NEW PANELS, SUB-PANELS AND/OR RPM EQUIPMENT AS DIRECTED.
- 7.6 PROVIDE A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH RPM CIRCUIT.
- 7.7 ALL ELECTRICAL GROUNDING SHALL MEET NEC CODES (AND LOCAL GROUNDING REQUIREMENTS). WHERE A SUB-PANEL IS LOCATED IN A SEPARATE STRUCTURE, THE NEUTRAL SHALL NOT BE BONDED TO THE GROUND BUS.
- 7.8 ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- 7.9 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS DESIGNED AND APPROVED.

- 7.10 INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS.
- 7.11 ALL FINAL TERMINATIONS SHALL BE MADE BY THE CONTRACTOR. ALL RPM CONNECTIONS SHALL BE MADE BY THE CONTRACTOR UNDER PNNL VENDORS SUPERVISION.
- 7.12 THE CONTRACTOR SHALL SEAL ELECTRICAL CONDUIT ENTERING AREAS OF TEMPERATURE CHANGE BY SEALING TYPE FITTINGS TO PREVENT AIR MIGRATION AND CONDENSATION.
- 7.13 THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.
- 7.14 FURNISH AND INSTALL ALL CONDUITS, WIRES, BOXES, SWITCHES, LIGHT FIXTURES (WITH LAMPS), RECEPTACLES, SERVICE DEVICES, AND PANEL BOARDS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. ALL STARTERS, FUSED DISCONNECTS, BREAKERS, FUSES, CONTACTORS, SWITCHES, J-BOXES, CONDUIT, CONDULETS AND WIRES THAT ARE NOT SUPPLIED BY THE EQUIPMENT MANUFACTURER IN A PREWIRED PANEL ARE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 7.15 ALL SWITCHES AND CIRCUIT BREAKERS, DISCONNECTING MOTORS OR CONTROLLING ELECTRICAL DISCHARGE LIGHTING SHALL BE WITHIN SIGHT OF MOTORS OR FIXTURES (NOT OVER 50 FT) OR BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 7.16 THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, FITTINGS, JUNCTIONS, BOXES, PULL BOX AND EXPANSION FITTINGS REQUIRED TO MEET FIELD CONDITIONS. THE CONTRACTOR SHALL DETERMINE ACTUAL MATERIAL AND HARDWARE REQUIREMENTS AND VERIFY ALL DIMENSIONS BY FIELD INSPECTION.
- 7.17 MINIMUM DEPTH OF DIRECT BURIAL AND CONCRETE ENCASED CONDUIT SHALL BE 24" (OR PER LOCAL CODE) FROM FINISHED SURFACE UNLESS OTHERWISE NOTED.
- 7.18 ELECTRICAL EQUIPMENT AND DEVICES INSTALLED OUTDOORS SHALL BE ENCLOSED IN WEATHERPROOF, CORROSION RESISTANT, STAINLESS STEEL NEMA 4X ENCLOSURES.
- 7.19 CONTRACTOR SHALL PROVIDE AND INSTALL PULL BOXES, WEATHERPROOF ENCLOSURES, JUNCTION BOXES, AND VAULTS, AS NECESSARY TO FACILITATE INSTALLATION AND MEET CODE (EVEN IF NOT SHOWN IN THE DRAWINGS).
- 8.0 POWER WIRING
- 8.1 FOR ALL DRY AND DAMP LOCATIONS USE COPPER WIRE WITH THHN OR THWN INSULATION.
- 8.2 FOR ALL DAMP AND WET LOCATIONS USE COPPER WIRE WITH THWN INSULATION.
- 8.3 MINIMUM WIRE GAUGE FOR RPM POWER CIRCUITS SHALL BE 12 AWG.
- 9.0 RPM SIGNAL CABLE
- 9.1 CABLING BETWEEN THE CONTROL BOX AND ANNUNCIATORS (INDOOR OR OUTDOOR) OR CONTROL BOX AND RSPS SHALL BE 8 CONDUCTOR (4 TWISTED PAIR SHIELDED, OUTDOOR RATED COMMUNICATION CABLE WITH DIRECT BURIAL JACKET. REFER TO RPM8 RADIATION PORTAL MONITOR SYSTEM INSTALLATION MANUAL (LATEST REVISION) FOR REQUIRED CONDUCTOR SIZE. NOTE THAT THE CONTRACTOR SHALL COMPLY WITH SIZES RECOMMENDED IN THIS MANUAL.
- 9.2 CONTRACTOR TO VERIFY FINAL RUN LENGTHS IN THE FIELD.
- 9.3 ALL FINAL TERMINATIONS SHALL BE MADE BY THE CONTRACTOR.
- 9.4 DATA CABLE HANDLING AND INSTALLATION SHALL BE ACCOMPLISHED BY TRAINED INSTALLERS ONLY.
- 9.5 SIGNAL CABLES SHALL BE VERIFIED AT BOTH ENDS FOR ACCURATE TERMINATION AND CONTINUITY.
- 10.0 ETHERNET CABLE (CATEGORY 6)
- 10.1 CONTRACTOR TO VERIFY FINAL RUN LENGTHS IN THE FIELD.
- 10.2 TERMINATE ALL CAT 6 CABLE WITH AN RJ-45 CONNECTOR. NO SPLICING ALLOWED.
- 10.3 THE CONTRACTOR SHALL TEST THE CABLES WITH A DTX CABLEANALYZER CABLE TESTER (OR APPROVED EQUIVALENT). DTX CABLEANALYZER IS A REGISTERED TRADEMARK OF FLUKE NETWORKS AND SERVICES.
- 10.4 APPROVED CABLES CAN BE FOUND IN CABLE EQUIVALENCE SCHEDULE.
- 11.0 ETHERNET CABLE (FIBER OPTIC CABLE)
- 11.1 INSTALL AND TEST THE FIBER OPTIC MEDIA IN ACCORDANCE WITH CONTRACT DRAWINGS, SPECIFICATIONS, INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) STANDARD C2, NFPA 70 AND TELECOMMUNICATION INDUSTRY (TIA) STANDARD TIA-590-A.
- 11.2 ALL SPLICES IN FIBER OPTIC CABLE SHALL BE FUSED SPLICES
- 11.3 DO NOT ALLOW BENDS IN MEDIA WHICH EXCEED THE MANUFACTURER'S MINIMUM RECOMMENDED RADIUS OR 10 TIMES THE OUTSIDE DIAMETER OF THE CABLE, WHICHEVER IS GREATER.
- 11.4 A HORIZONTAL SLACK OF APPROXIMATELY 3' SHALL BE LEFT ON EACH SIDE OF CONNECTION BOXES AND AT POINTS WHERE CONNECTIONS ARE BROUGHT ABOVE GROUND. ADDITIONAL SLACK SHALL BE PROVIDED TO MAKE ANY NECESSARY CONNECTIONS.
- 11.5 CONTRACTOR WILL PROVIDE PNNL WITH TOTAL INDIVIDUAL LINK TEST AND RESULTS DOCUMENTATION FOR EACH FIBER RUN, CABLE, AND STRAND.
- 11.6 SINGLE MODE FIBER SHALL BE TESTED IN ACCORDANCE WITH TIA-526-7 (OPTICAL POWER LOSS). MULTI MODE FIBER SHALL BE TESTED IN ACCORDANCE WITH TIA-526-14-A AFTER ALL TERMINATIONS AND SPLICES ARE COMPLETE.
- 11.7 DATA CABLE HANDLING AND INSTALLATION SHALL BE ACCOMPLISHED BY A TRAINED INSTALLER ONLY.
- 11.8 TERMINATIONS WILL BE WITH TERMINAL TYPES AS SPECIFIED IN THE DRAWINGS. VERIFY AND MATCH EXISTING AS REQUIRED.
- 11.9 THE CONTRACTOR SHALL TERMINATE AS MANY STRANDS OF THE FIBER OPTIC CABLE AS SHOWN IN DESIGN PLUS TWO SPARES. CABLE AND CONNECTORS WILL BE CHECKED BY A HIGH PERFORMANCE OPTICAL TIME DOMAIN REFLECTOMETER FOR MULTIMODE AND SINGLE MODE SYSTEMS (OR APPROVED EQUIVALENT). THE CONNECTORS SHALL EXHIBIT <=0.5DB LOSS PER CONNECTION @ BOTH 1300NM AND 1550NM, AS MEASURED PER FOTP-171 D3.
- 11.10 SAW CUT FIBER CABLE SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.

	RADIATION PORTAL MONITOR PROJECT STRADDLE CARRIER PORTAL (SCP)				APPROVED:		CHECKED BY: DATE		DATE	
	BOOTH REPLACEMENT GENERAL NOTES		PROJECT: 7-13-17		PROJECT: 7-13-17		PROJECT: 7-13-17		PROJECT: 7-13-17	
CONT/CONS: 070661	TOWNSHIP: 10056.01	RANGE: 10056.01	SECTION: 10056.01	DATE: 09/09/2016	PRINTED BY: midvale	DATE: 09/09/2016	PROJECT: 7-13-17	PROJECT: 7-13-17	PROJECT: 7-13-17	PROJECT: 7-13-17
M. ID: 10056.01	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016	DATE: 09/09/2016
PHASE: B10 SET	PARCEL: 10056.01	SCALE: NONE	SCALE: NONE	SCALE: NONE	SCALE: NONE	SCALE: NONE	SCALE: NONE	SCALE: NONE	SCALE: NONE	SCALE: NONE

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M. GIER
PROFESSIONAL ENGINEER
WASHINGTON STATE
NO. 10056.01
EXPIRATION DATE: 6/9/16

Port of Tacoma
P.O. BOX 100 TACOMA, WA 98401-0100

MARK:	REVISION:	BY:	DATE:
1	NO CHANGE	MTD	6/9/2016
2	NO CHANGE	PMG	6/9/2016

- 12.0 CONDUIT
- 12.1 EACH CABLE TYPE (POWER AND COMMUNICATIONS) SHALL BE RUN IN A SEPARATE CONDUIT AS SHOWN ON THE DRAWINGS.

12.2 MINIMUM CONDUIT SIZES ARE SHOWN ON DRAWINGS. CONTRACTOR SHALL VERIFY CONDUIT SIZES FOR COMPLIANCE TO NEC BASED ON ACTUAL WIRE RUNS.

12.3 USE MINIMUM 2"Ø SOLVENT GLUED SCHEDULE 80 PVC FOR ALL UNDERGROUND CONDUITS.

12.4 USE POLYMER COATED RMC FOR ALL DAMP AND WET EXTERIOR ABOVE GRADE RACEWAYS.

12.5 USE POLYMER COATED RMC FOR ALL TRANSITIONS FROM HORIZONTAL THROUGH VERTICAL STUB-UPS.

12.6 USE POLYMER COATED RMC OR EMT FOR ALL EXTERIOR ABOVE GRADE RACEWAYS UNDER CANOPIES.

12.7 USE EMT FOR ALL INTERIOR RACEWAYS.

12.8 COMPRESSION TYPE FITTINGS SHALL BE USED WITH EMT WHERE EXPOSED TO WEATHER (OUTDOORS).

12.9 PROVIDE PULL STRINGS AND LABELS IN ALL EMPTY CONDUITS. CAP AND MAKE WATERTIGHT ALL EMPTY CONDUITS. ALL EMPTY CONDUIT STUB-UPS SHALL EXTEND 3" ABOVE FINISH SURFACE.

12.10 CONDUIT LOCATED UNDERGROUND IN ANY AREA OF VEHICULAR TRAFFIC MUST BE PLACED A MINIMUM OF 24" (OR PER LOCAL CODE) BELOW THE SURFACE. ALL OTHER UNDERGROUND CONDUIT MUST BE PLACED A MINIMUM OF 24" BELOW THE SURFACE.

12.11 CONDUIT SHALL BE ROUTED AROUND AND BENEATH ANCHOR BOLT REBAR CAGE AT FOUNDATIONS AS REQUIRED.

12.12 MYERS (GASKETED) HUBS SHALL BE USED FOR ALL CONDUIT PENETRATIONS INTO THE RSP, CONTROL BOX, BATTERY BOX, AND ALL JUNCTION BOXES.

12.13 DO NOT USE FLEX CONDUIT UNLESS SPECIFIED IN THE DESIGN DRAWINGS.
- 13.0 CONCRETE
- 13.1 ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONFORMING TO ASTM C150 TYPE IIA, HAVE A 4,500 PSI NOMINAL COMPRESSIVE STRENGTH, AGGREGATE SHALL COMPLY WITH ASTM C33-03, C88, C127, C131, C289, WATER TO CEMENT RATIO 0.42, ENTRAINED AIR CONTENT OF 6-8%, CLASS F FLY ASH CONFORMING TO ASTM 618-03 AND ASTM C311, 4" MAXIMUM SLUMP, UNLESS A SUPER-PLASTICIZER IS USED. (UNLESS OTHERWISE NOTED IN DRAWINGS)

13.2 AGGREGATE MATERIAL SHALL CONFORM WITH ASTM C33 AND SHALL BE FROM AN APPROVED SOURCE TO ENSURE UNIFORM QUALITY AND GRADING. DELIVER SO THAT MOISTURE CONTENT VARIATIONS WILL NOT DECREASE PRODUCTION OF REASONABLY UNIFORM CONCRETE.

13.3 MIXING, PLACING, FINISHING, AND CURING SHALL BE IN ACCORDANCE WITH DESIGN DOCUMENTS AND SECTION 303 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.

13.4 REINFORCING STEEL BARS SHALL OVERLAP A MINIMUM OF 24 BAR DIAMETERS. REBAR SHALL BE 3" CLEAR TYPICAL AGAINST ALL GRADE AND 1 1/2" CLEAR TYPICAL WHERE FORMED OR EXPOSED.

13.5 WHERE DOWELING VERTICALLY OR HORIZONTALLY INTO EXISTING CONCRETE, REBAR SHALL BE EPOXIED INTO EXISTING CONCRETE USING HILTI #HY-150 ADHESIVE. WHERE TRENCHING OCCURS ALONG AN EXISTING EXPANSION JOINT, REPLACE EXPANSION JOINT MATERIAL AND USE CONCRETE REBAR DOWELING AND APPLY ADHESIVE ONLY ON THE NON-EXPANSION JOINT SIDES.

13.6 NOMINALLY HORIZONTAL CONCRETE SURFACES EXPOSED TO WEATHER SHALL BE SLOPED FOR DRAINAGE.

13.7 ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4".

13.8 GRINDING, PATCHING AND SACKING SHALL BE DONE TO ACHIEVE A UNIFORM SMOOTH SURFACE. FINAL FINISH ON ALL HORIZONTAL OR GENTLY SLOPED CONCRETE SURFACES SHALL HAVE A LIGHT BROOM FINISH. (ACS STANDARDS)
- 14.0 HOT MIX ASPHALT CONCRETE PAVING
- 14.1 PRIOR TO BEGINNING WORK, CONTACT THE OWNER/CITY OR COUNTY OFFICIAL TO COORDINATE TRAFFIC FLOW, WORK SCHEDULES AND UTILITY INTERFACES.

14.2 ALL ASPHALT AND BASE THICKNESS NOTED ARE COMPACTED THICKNESS.

14.3 SUBGRADE PREPARATION AND PLACEMENT OF BASE MATERIAL SHALL CONFORM TO THE RELATED SECTIONS IN THE STATE DOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION, LATEST EDITION.

14.4 ONE DAY PRIOR TO PLACEMENT OF BITUMINOUS MATERIAL ON THE BASE, THE SURFACE SHALL BE STERILIZED WITH A SOIL HERBICIDE.
- 15.0 GROUT
- 15.1 ALL GROUT IN CONCRETE SAW-CUTS SHALL BE HIGH-STRENGTH, 5,000 PSI, NON-SHRINK PER ASTM C1107.

15.2 CDF GROUT (LEAN CONCRETE) SHALL BE A LOW-STRENGTH BACKFILL CONSISTING OF 2 SACKS OF TYPE IIA PORTLAND CEMENT PER CUBIC YARD, FLOWABLE SAND, ADEQUATE WATER TO ACHIEVE AN 8" TO 10" SLUMP, CEMENT HAVING A MINIMUM OF 20% BY WEIGHT OF FLY ASH, ENTRAINED AIR CONTENT OF 15-20%.
- 16.0 MISC HARDWARE
- 16.1 ALL CARBON STEEL NUTS, BOLTS, AND WASHERS SHALL BE PER ASTM A563.

16.2 RPM ANCHOR BOLTS SHALL BE ASTM F 1554 GRADE 55. ANCHOR BOLT NUTS SHALL BE ASTM DH. ALL COMPONENTS SHALL MEET ASTM A153.

16.3 BOOTH ANCHOR BOLTS SHALL BE HILTI-TZ RODS INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS WITH HILTI-HY 150 ADHESIVE.

16.4 ALL STAINLESS STEEL NUTS, BOLTS AND WASHERS SHALL BE ASTM SERIES 300 (UNLESS OTHERWISE NOTED).

16.5 ALL BOLTS SHALL BE A307 OR SAE GRADE 5, WITH ASTM A563 GRADE A CLASS 2B HEX NUTS AND ASTM F436 FLAT CIRCULAR PLAIN WASHERS FOR OVERHEAD STRUCTURE AND ALL ASSOCIATED ELECTRICAL EQUIPMENT (UNLESS OTHERWISE NOTED).

16.6 FIELD VERIFY ALL DIMENSIONS OF THE EQUIPMENT BEING MOUNTED PRIOR TO INSTALLATION. FIELD DRILL OR SHOP DRILL ALL SURFACES TO MATCH EQUIPMENT.

- 16.7 CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED EQUIPMENT AND MATERIAL NOT SPECIFICALLY IDENTIFIED AS GFE.
- 16.8 CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS HARDWARE REQUIRE TO COMPLETE RPM INSTALLATION (EVEN IF NOT SHOWN IN THE DRAWINGS).
- 16.9 ALL NUTS REQUIRE FULL BOLT THREAD ENGAGEMENT.
- 17.0 LIGHTNING PROTECTION
- 17.1 LIGHTNING PROTECTION OF RPM EQUIPMENT IS BASED ON A GRADED APPROACH. SPECIFIC GUIDANCE FOR MEASURES REQUIRED TO MITIGATE DAMAGE FROM LIGHTNING INDUCED SURGES IS PROVIDED IN THE DRAWINGS AND TECHNICAL SPECIFICATIONS.

17.2 ALL RPM STANDS SHALL BE BONDED AND GROUNDED TO A COPPER OR COPPER COATED STEEL GROUNDING ROD OR PLATE (LOCAL CODES SHALL APPLY).

17.3 ALL NEW POWER PANELS SHALL BE EQUIPPED WITH INTEGRATED SURGE SUPPRESSION CERTIFIED PER UL1449.

17.4 RPM SHROUDS ARE INHERENTLY HARDENED AGAINST EFFECTS OF LIGHTNING. NO ADDITIONAL LIGHTNING PROTECTION/ATTRACTION (AIR TERMINALS) EQUIPMENT IS REQUIRED.

17.5 SURGE PROTECTION DEVICES SHALL BE PROVIDED TO BOTH TERMINATIONS OF EACH ETHERNET CAT 6 CABLE FROM OUTSIDE COMPONENTS.

17.6 CONTRACTOR TO USE 110 PUNCH DOWN BLOCK TOOL TO LAND WIRES TO SPD. SPD TO BE SECURELY MOUNTED AND TIE DOWN CABLES USED TO PREVENT WIRE MOVEMENT.

17.7 FOR OUTDOOR SPD INSTALL IN NEAREST COMMUNICATION JB. DRILL HOLE IN BOTTOM OF WALL OF JB AND INSTALL STRAIN RELIEF CONNECTOR MAINTAINING NEMA 4 RATING OF BOX. ROUTE BARE SOLID OR JACKETED GREEN #6 COPPER GROUNDING WIRE THROUGH STRAIN RELIEF.

17.8 FOR INDOOR SPD GROUND PER MANUFACTURER'S INSTRUCTIONS WITH #6 STRANDED COPPER WIRE TO NEAREST EARTH GROUND.
- 18.0 DESIGN CRITERIA
- 18.1 DESIGN DRAWINGS ARE BASED ON HORIZONTAL LOADS AS FOLLOWS: WIND LOADS BASED ON A 110 MPH 3-SECOND GUST WITH IMPORTANCE FACTOR OF 1.00 AND EXPOSURE C, SEISMIC LOAD OF SS=1.282, S1=0.497, AND CS=0.214 WITH AN ALLOWABLE SOIL PRESSURE OF 1000 PSF.

18.2 DESIGN DRAWINGS ARE BASED ON A LIGHTNING FLASH DENSITY AS DEFINED BY NFPA 780 OF 1 FLASHES/KM2/YEAR, CORRESPONDING TO A LOW RISK.

18.3 ELECTRICAL CONDUCTOR SIZE IS BASED ON A 3.5A MAXIMUM CURRENT DRAW AT 120VAC FOR RPMs AND SHALL BE SIZED TO PREVENT A VOLTAGE DROP NOT TO EXCEED 3% FOR FEEDER CIRCUITS AND 2% FOR BRANCH CIRCUITS.

18.4 DESIGN LOADS:

ROOF:

LIVE LOAD

20PSF

SNOW LOAD

25PSF

DEAD LOAD

13PSF

WALL:

DEAD LOAD

15PSF
- 19.0 METAL FINISHES
- 19.1 ALL CARBON STEEL SHALL BE PAINTED, EXCEPT WHERE DRAWINGS STATE OTHERWISE.
- 20.0 TRAFFIC BARRIER
- 20.1 K-RAILS: CONCRETE TRAFFIC BARRIERS SHALL MEET STATE DOT REQUIREMENTS AS APPLICABLE.

20.2 ALL K-RAILS SHALL BE PINNED ACCORDING TO STATE DOT REQUIREMENTS AS APPLICABLE, OR AT A MINIMUM USING 1"Ø X 24" PINS, MINIMUM OF 4 PER K-RAIL 12'-6" AND LESS, MINIMUM 6 PER K-RAIL OVER 12'-6", UNLESS OTHERWISE NOTED.

20.3 ALL K-RAILS SHALL BE PROVIDED WITH PRECAST PIN POCKETS, AS REQUIRED.
- 21.0 HOLD POINTS
- 21.1 PNNL OBSERVES DELIVERY OF BOOTH.

21.2 LAYOUT INSPECTION (INCLUDING MARK AND LOCATE) AND APPROVAL PRIOR TO COMMENCEMENT OF EXCAVATION (IF EXCAVATION OR TRENCHING IS REQUIRED).

21.3 PNNL OBSERVES SITE PREPARATION FOR FOUNDATION EXCAVATION AND ASSEMBLY INSPECTION PRIOR TO SCHEDULING CONCRETE (IF FOUNDATION MODIFICATIONS ARE REQUIRED).

21.4 CONCRETE STRENGTH TEST INSPECTION PRIOR TO SETTING UP BOOTH.

21.5 PNNL OBSERVES TRENCH EXCAVATION INSPECTION PRIOR TO FILLING TRENCH (IF TRENCHING IS REQUIRED).

21.6 PNNL OBSERVES SITE PREPARATION FOR CONCRETE PLACEMENT.

21.7 PNNL OBSERVES SITE PREPARATION FOR HMAC PLACEMENT.

21.8 ALL WIRE AND CABLE TO BE INSPECTED PRIOR TO INSTALLATION.

21.9 PNNL OBSERVES COMPLETED ELECTRICAL BEFORE CONCEALMENT.

21.10 PNNL REVIEWS ELECTRICAL TEST REPORTS (POWER AND SIGNAL CABLE) BEFORE ELECTRICAL CONTRACTOR IS RELEASED.

21.11 PNNL REVIEWS FIBER TEST REPORTS BEFORE FIBER CONTRACTOR IS RELEASED.
- 22.0 SPECIAL INSPECTIONS
- FOLLOWING LIST AND TABLE DESCRIBES WORK ACTIVITIES THAT REQUIRE SPECIAL INSPECTION. SPECIAL INSPECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED BY QUALIFIED, AND AS APPLICABLE, CERTIFIED PERSONNEL PER IBC, CHAPTER 17 AND/OR CONTRACT DOCUMENTS. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION REQUIRED BY LOCAL JURISDICTIONS. INSPECTIONS AND TESTS SHALL BE DOCUMENTED AND PROVIDED TO PNNL PRIOR TO REQUESTING ACCEPTANCE OF WORK.

SEE SPECIAL INSPECTIONS TABLE(S) AS NOTED:

22.1 CONCRETE:

NONE

22.2 STEEL:

NONE

22.3 POST-INSTALLED ANCHORS:

SEE SHEET 12

22.4 SOILS:

NONE

RPM4 SH 4 OF 18 CONT/CONS: 070661 M. ID: 10105601 PHASE: 810 SET	RADIATION PORTAL MONITOR PROJECT STRADDLE CARRIER PORTAL (SCP)				APPROVED:		CHECKED BY: <i>[Signature]</i> DATE: 7/25/17		DATE: 6/9/16		
	BOOTH REPLACEMENT GENERAL NOTES				SECTION:		RANGE:		DATE: 6/9/16		
TOWNSHIP:				RANGE:				DATE: 6/9/16			
DAT-HRZ:				VERT:				DATE: 6/9/16			
PARCEL:				DRAWING SCALE: NONE				DATE: 6/9/16			

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Meier

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MARK:

REVISION:

1

NO CHANGE

2

CITY COMMENTS

APPR:

DATE:

6/9/2016

BY:

MTD

6/9/2016

STATE OF WASHINGTON

PROFESSIONAL SEAL

PAUL M. GELTER

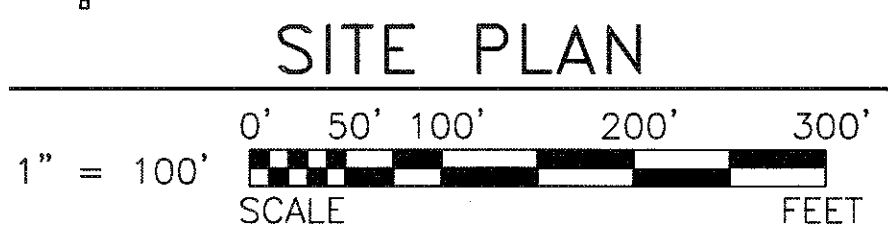
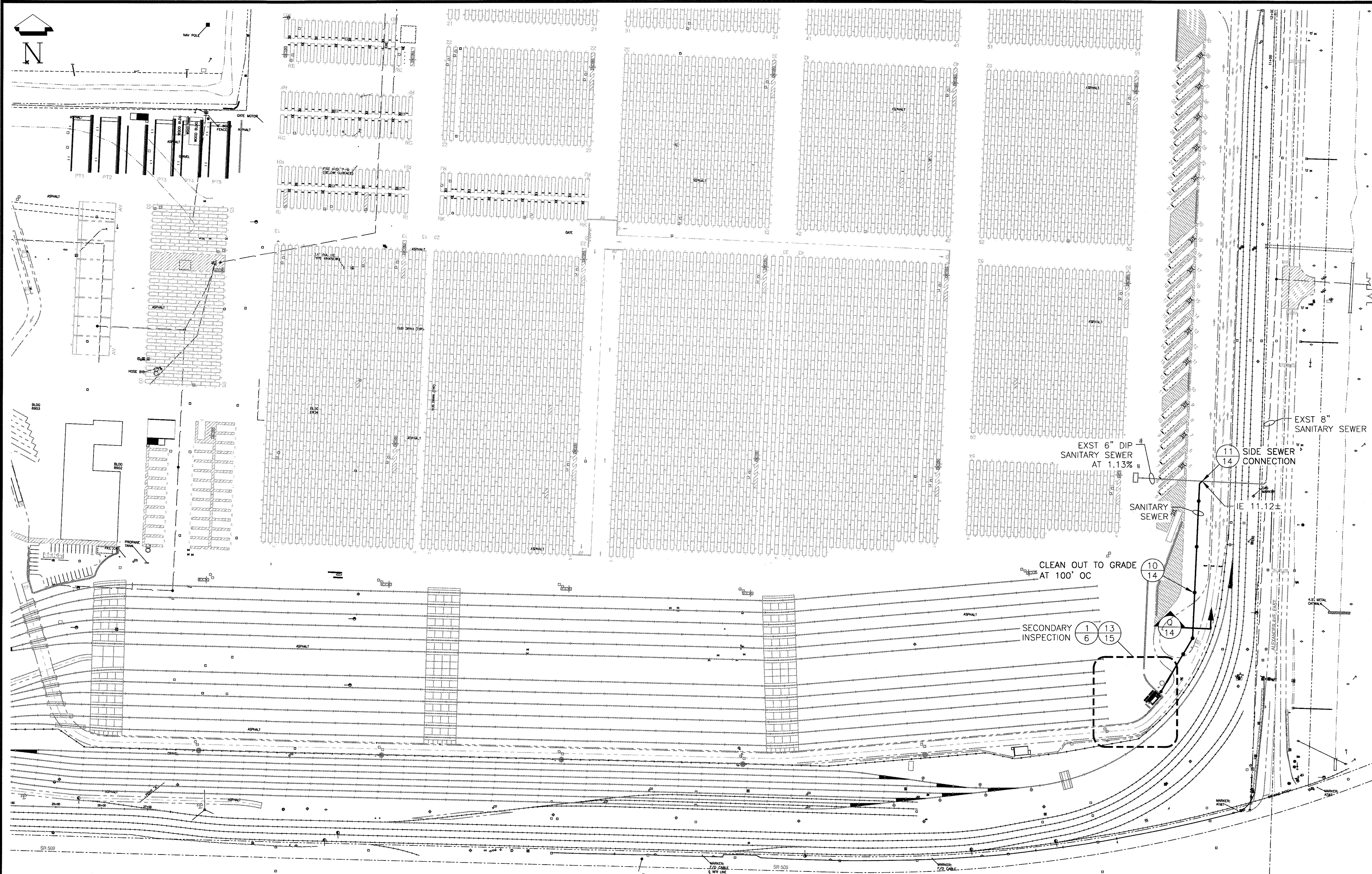
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NO. 12345

EXPIRATION DATE: 6/30/18

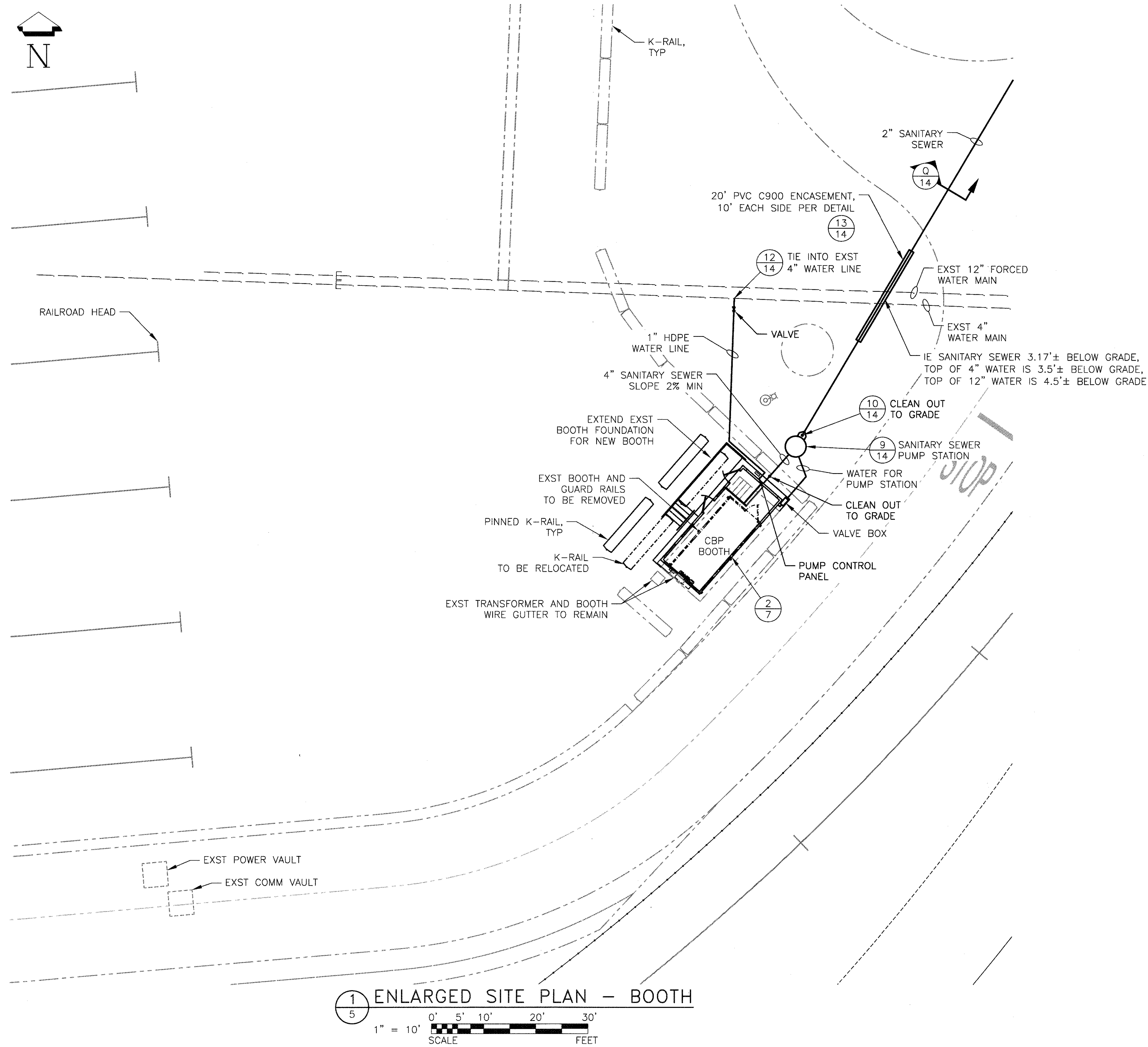
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	STRADDLE CARRIER PORTAL (SCP)				CHECKED BY DATE		BY DATE				
	BOOTH REPLACEMENT				DATE		DATE				
	SITE PLAN				DATE		DATE				
CONT/CONS: 070661	TOWNSHIP: 10N 05E 21	RANGE: 10N 05E 21	SECTION: 10	DATE: 10/05/16	PRINTED BY: midaville Jun 09, 2016	PMG 4/29/16		NO CHANGE		BY: MTD	DATE: 6/3/2016
M. ID: 101056, 21	DATE-HRZ: 10/05/16	VERT: 10N 05E 21	SECTION: 10	DATE: 10/05/16	PORT ADDRESS: ONE SITCOM PLAZA	PMG 4/29/16		NO CHANGE		BY: MTD	DATE: 6/3/2016
PHASE: B12	SET	PARCEL:	DRAWING SCALE: SHOWN	TACOMA, WA 98401-1837	PMG 4/29/16		NO CHANGE		BY: MTD	DATE: 6/3/2016	

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**RPM6**

SH 6 OF 18

CONT/CONS: 070661
M. ID: 107056.01
PHASE: BID SET PARCELRADIATION PORTAL MONITOR PROJECT
STRADDLE CARRIER PORTAL (SCP)BOOTH REPLACEMENT
ENLARGED SITE PLAN

TOWNSHIP: RANGE: VERT: SECTION:

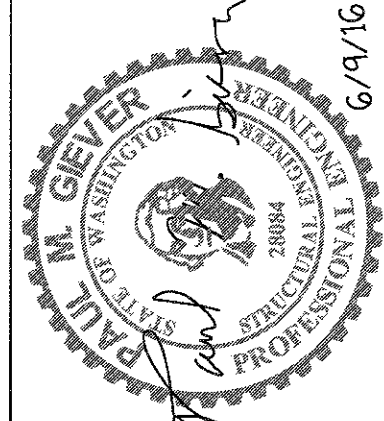
DRAWING SCALE: SHOWN

APPROVED:

DIRECTOR E&C DATE
PRINTED BY: midvale June 09, 2016
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PMG 4/29/16

CHECKED BY DATE

PMG 4/29/16
PROJ. ENGR DATE
DATE

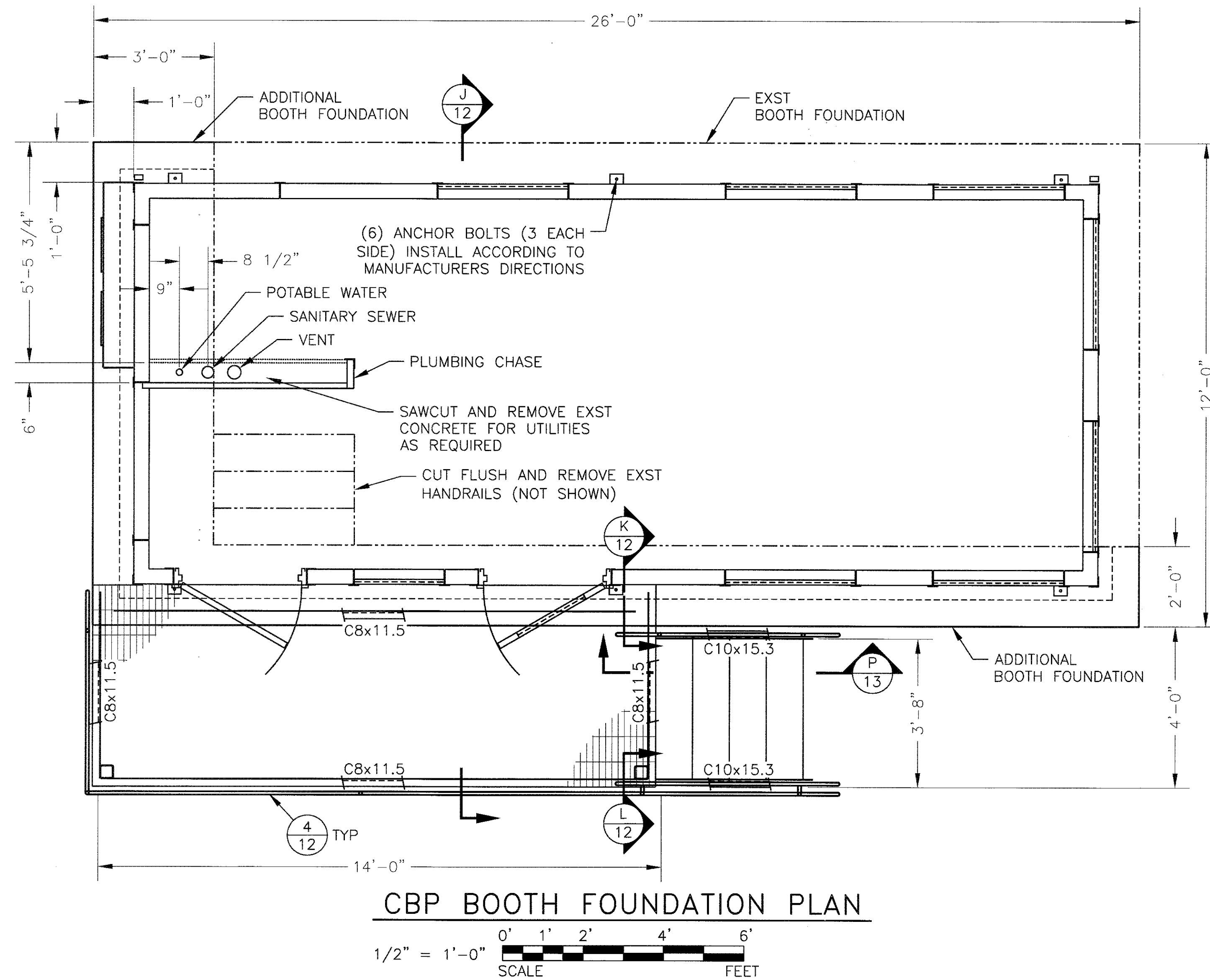
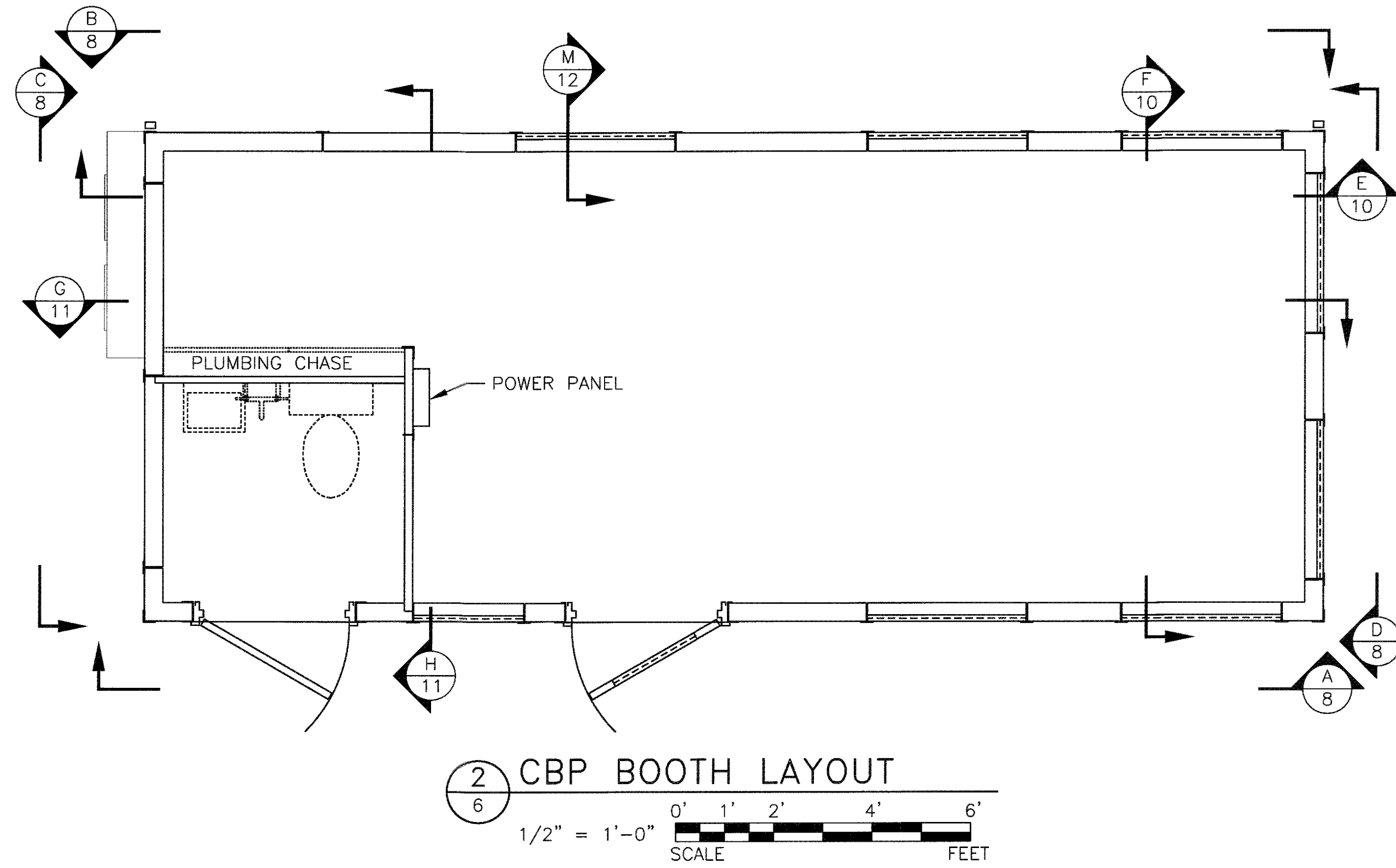
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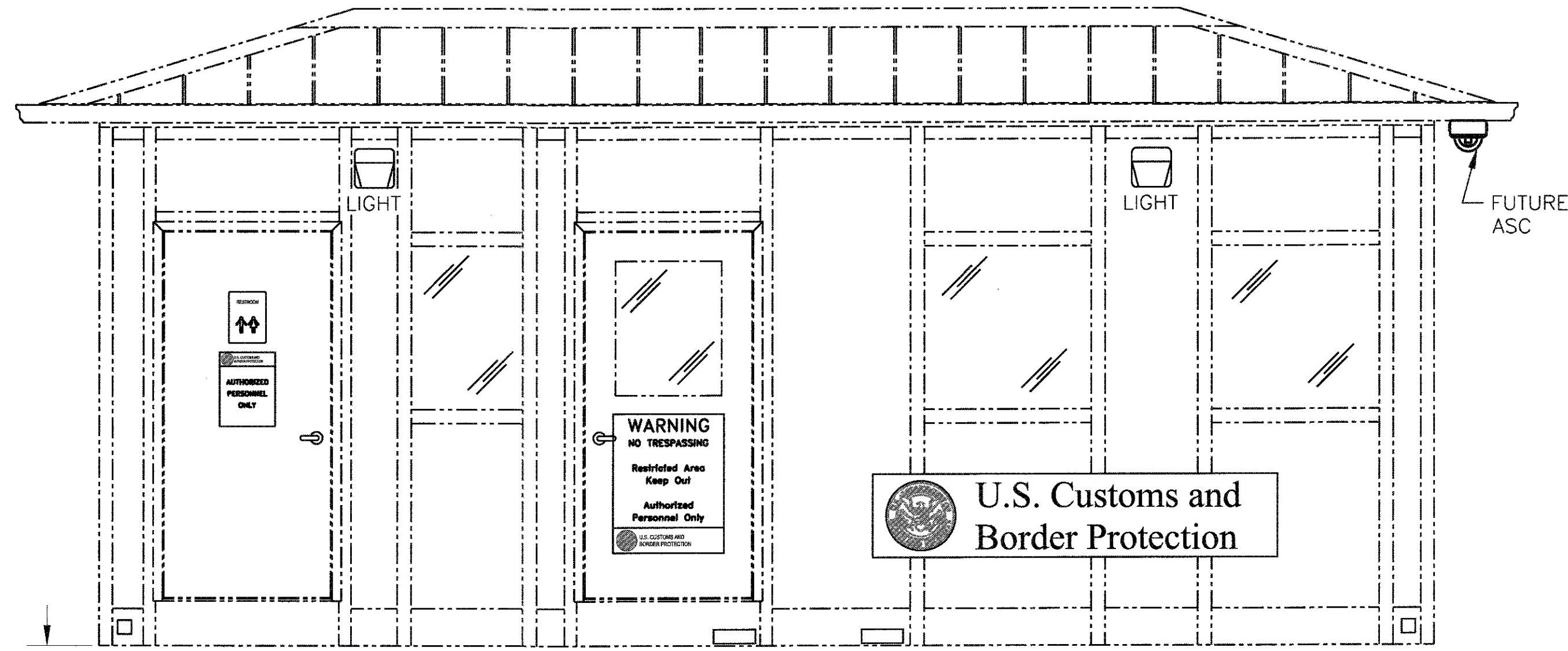
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MARK: REVISION: 1 NO CHANGE
BY: MTD
DATE: 6/9/16
APPR: PMG
DATE: 6/9/2016

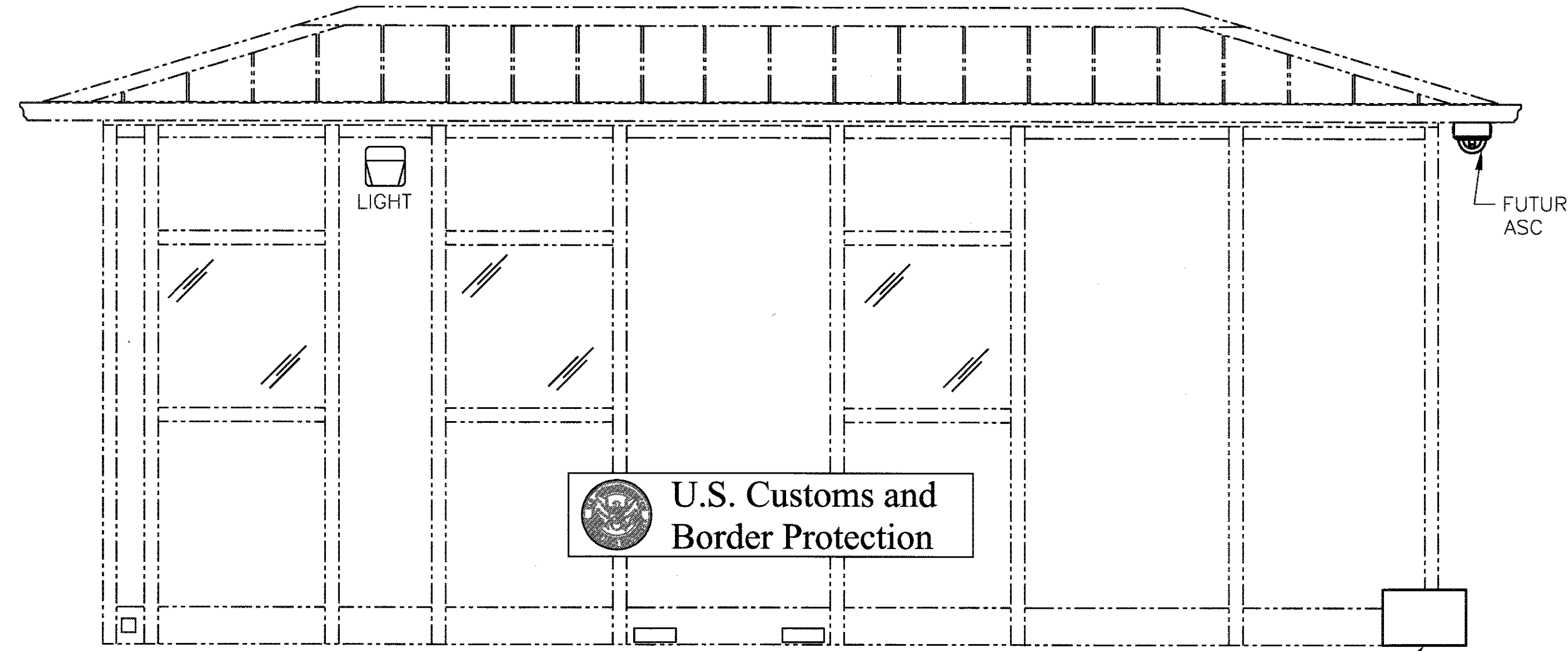
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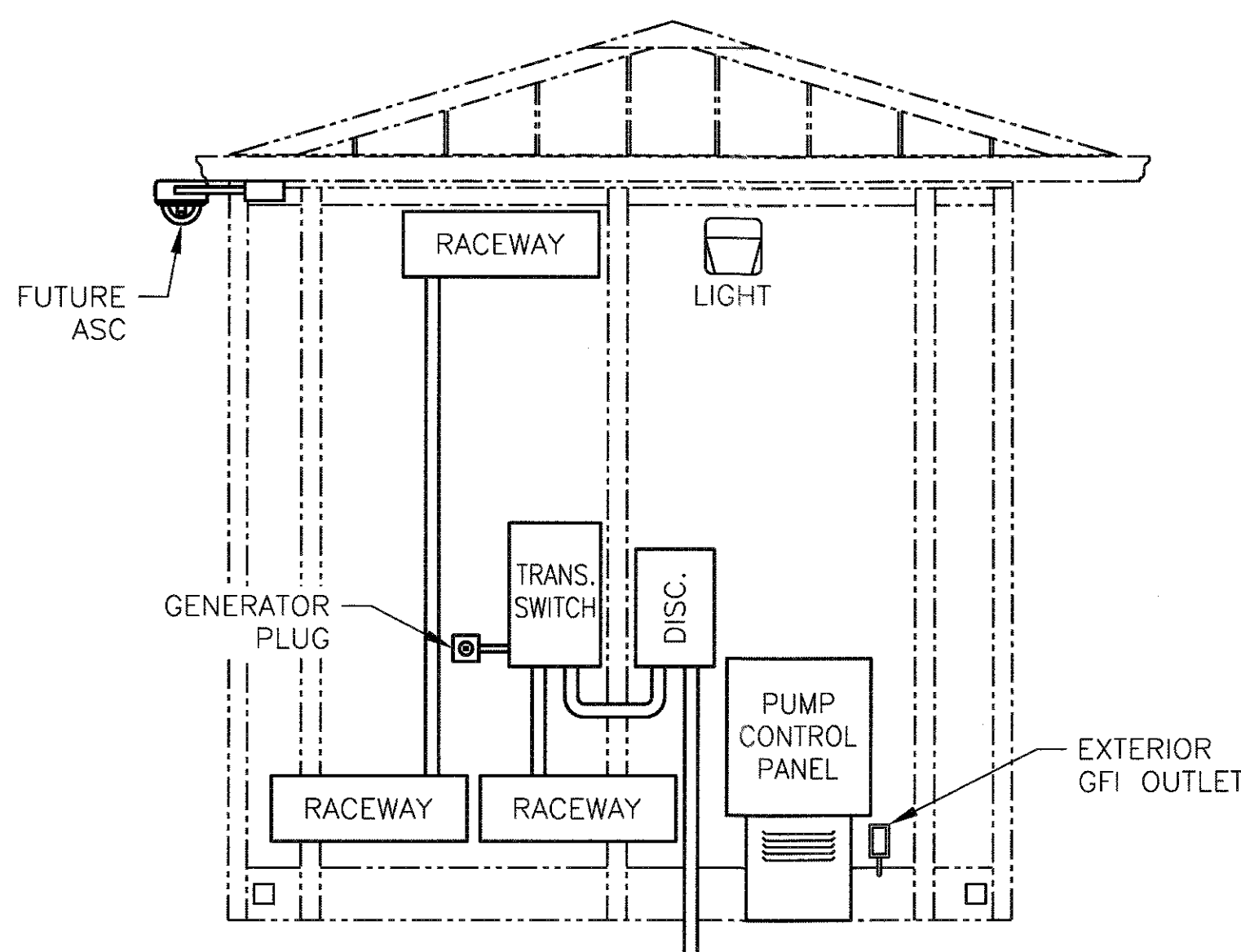


2'-0" MIN
BASE FLOOD ELEVATION

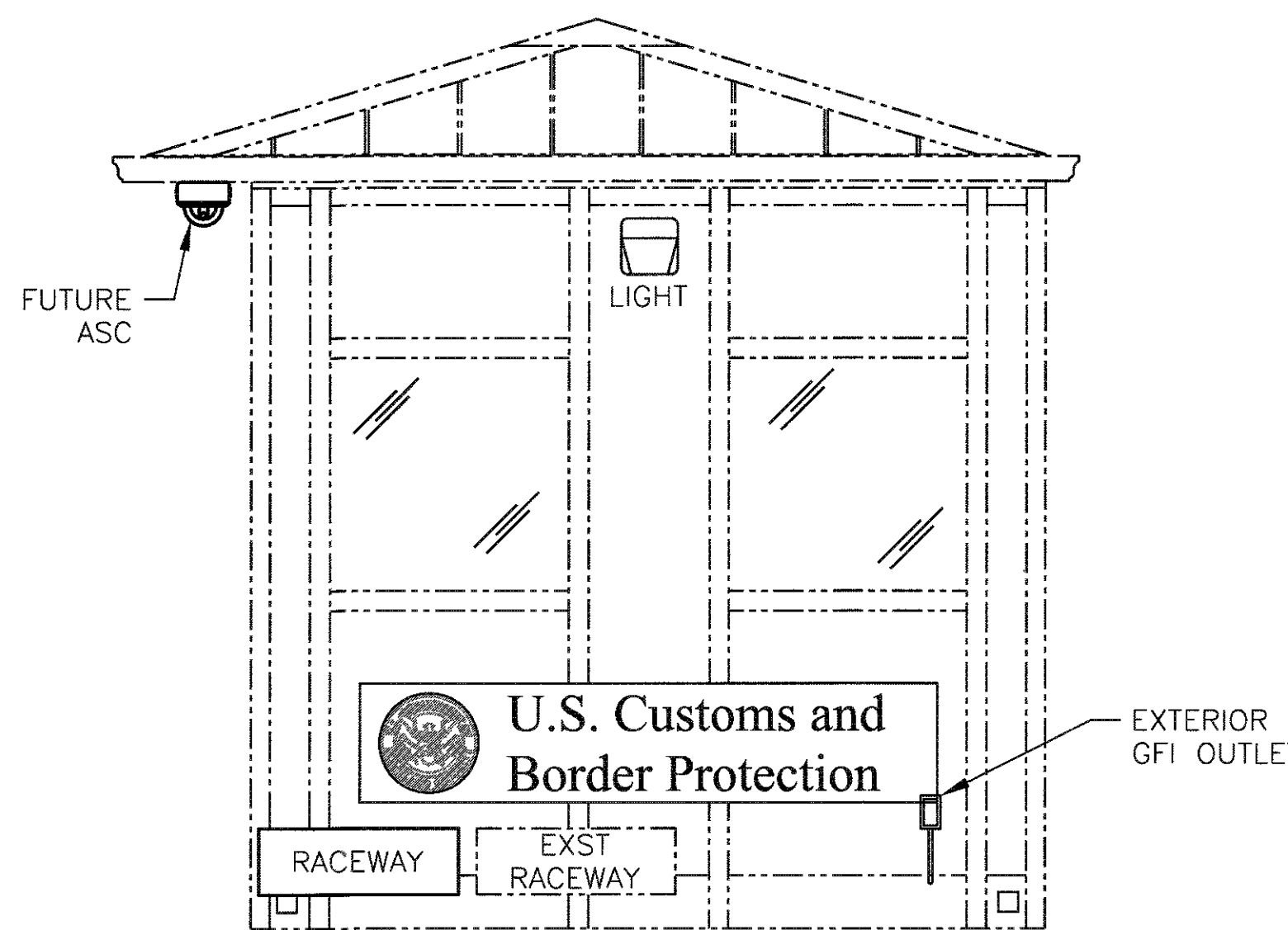
A EXTERIOR ELEVATION
7
1/2" = 1'-0"
0' 1' 2' 4' 6'
SCALE FEET



B EXTERIOR ELEVATION
7
1/2" = 1'-0"
0' 1' 2' 4' 6'
SCALE FEET



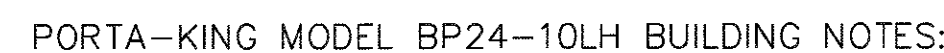
C EXTERIOR ELEVATION
7
1/2" = 1'-0"
0' 1' 2' 4' 6'
SCALE FEET



D EXTERIOR ELEVATION
7
1/2" = 1'-0"
0' 1' 2' 4' 6'
SCALE FEET

RPM8 SH 8 OF 18 CONT/CONS: 070661 M. ID: 101056.01 PHASE: BID SET	RADIATION PORTAL MONITOR PROJECT STRADDLE CARRIER PORTAL (SCP) BOOTH REPLACEMENT BOOTH EXTERIOR ELEVATIONS				APPROVED: [Signature] DIRECTOR, ENGR. DATE: mtdaville Jun 09, 2016 PRINTED BY: mtdaville Jun 09, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	CHECKED BY: PMG 4/29/16 DATE: PMG 4/29/16 PROJ. ENGR. DATE: PMG 4/29/16 DATE: PMG 4/29/16	PMG 4/29/16 DATE: PMG 4/29/16 PROJ. ENGR. DATE: PMG 4/29/16 DATE: PMG 4/29/16
	TOWNSHIP: DAT-HRZ: PARCEL:				DRAWING SCALE: SHOWN	REVISION: BY: DATE: 1 NO CHANGE MTD 6/9/16 2 CITY COMMENTS MTD 6/9/16	APPR: PMG 6/9/2016 DATE: PMG 6/9/2016

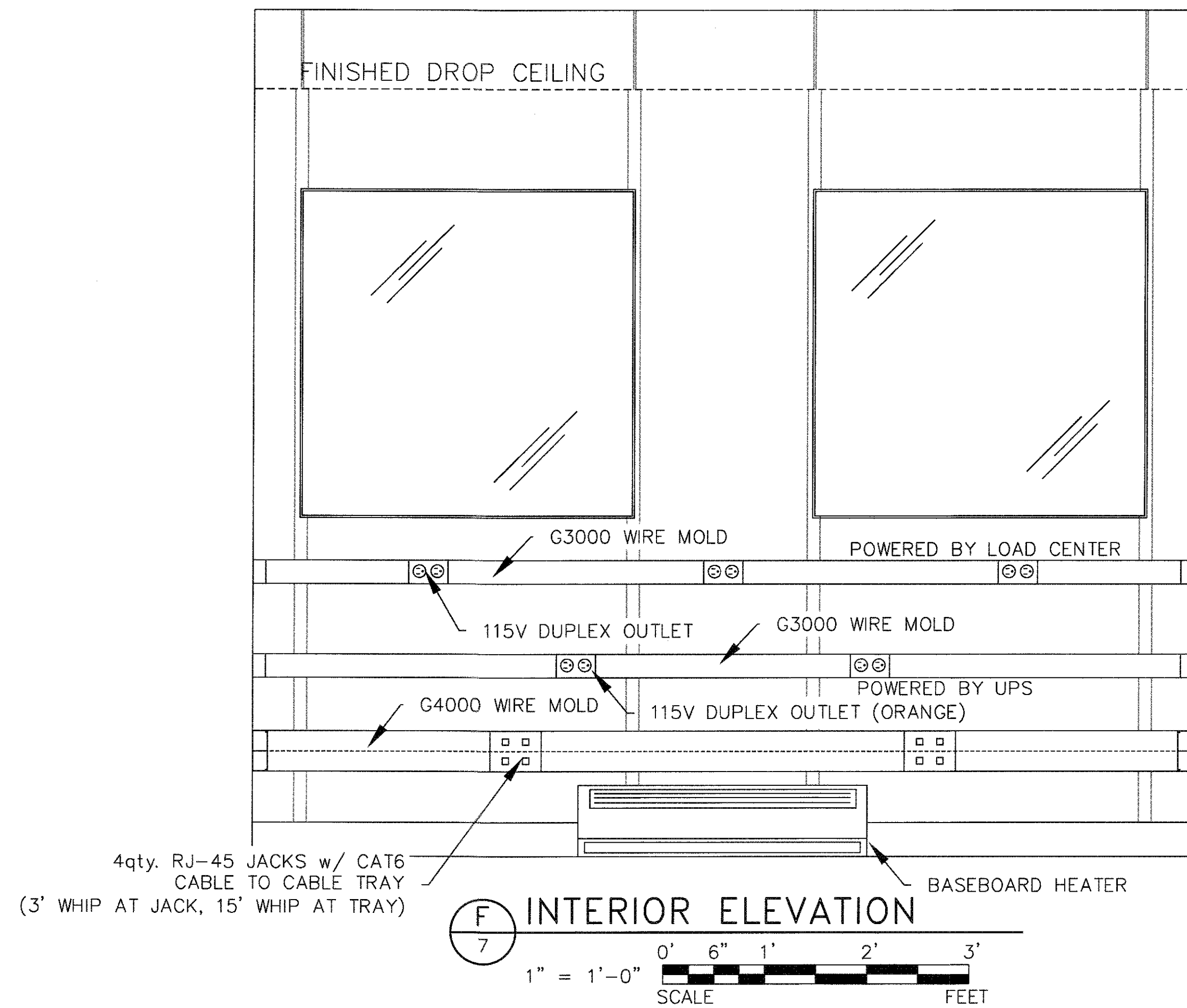
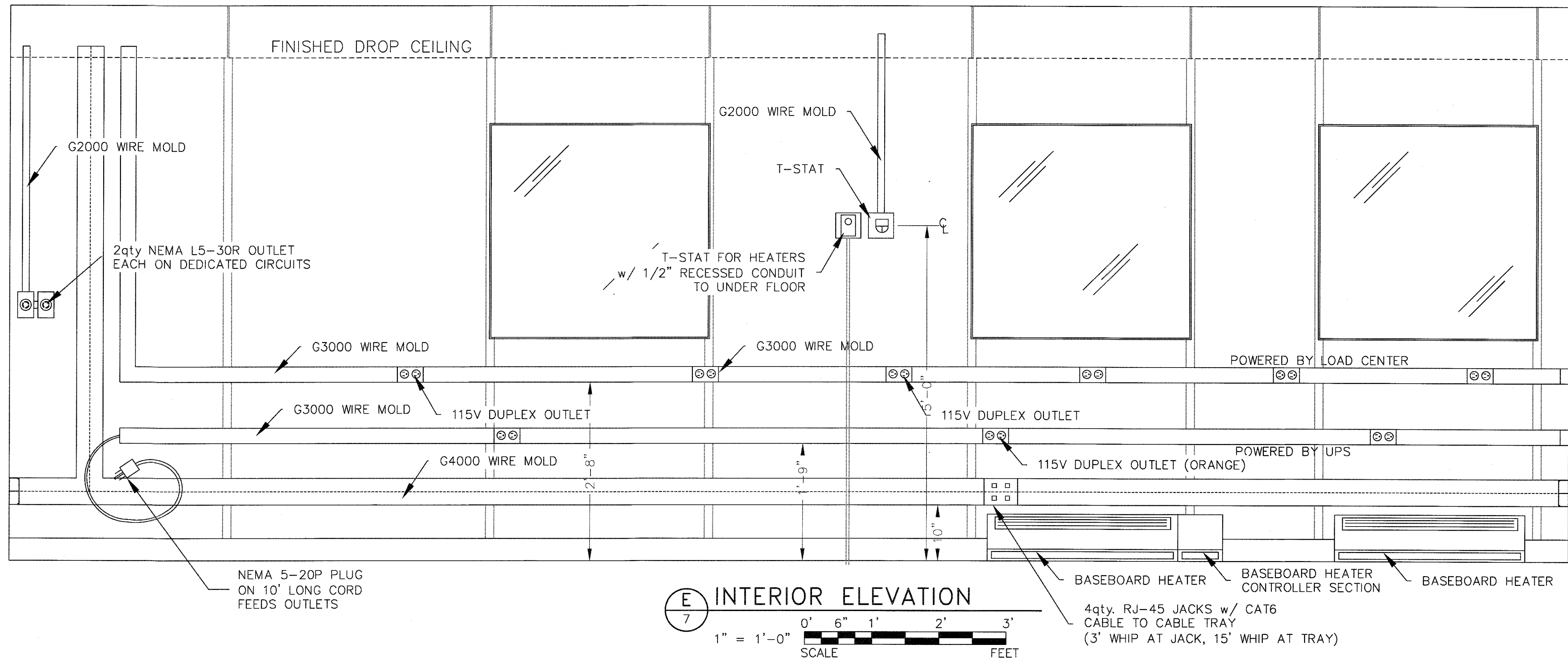
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- ① 200 AMP, SINGLE PHASE 40 CIRCUIT LOAD CENTER w/ MAIN BREAKER (QO140M200) (INCLUDES A TWO POLE TVSS SURGE SUPPRESSION BREAKER)
- ② 115V, 20 AMP DUPLEX OUTLET (18" A.F.F.)
- ③ 115V, 20 AMP GFI DUPLEX OUTLET
- ④ 115V, NEMA L5-30R OUTLET ON DEDICATED CIRCUITS
- ⑤ 115V, 20 AMP EXTERIOR GFI DUPLEX OUTLET w/ WEATHER PROOF COVER
- ⑥ 64 WATT RECESSED FLUORESCENT T-8 TROFFER w/ DIMMER SWITCH
- ⑦ 34 WATT RECESSED FLUORESCENT T-8 TROFFER w/ SWITCH
- ⑧ EXTERIOR WALL PACK LIGHT w/ MOTION SENSOR & SWITCH
- ⑨ 24,000 BTU SLIM DUCT AIR HANDLER INSTALLED & DUCTED IN PLENUM
- ⑩ 12,000 BTU SLIM DUCT AIR HANDLER INSTALLED & DUCTED IN PLENUM
- ⑪ 4"x2" STEEL WIRE MOLD w/ DIVIDER & COVER FOR DATA & SIGNAL (G4000) w/ 16QTY RJ-45 JACKS & CAT6 CABLE TO CABLE TRAY (3' WHIP AT JACK, 15' WHIP AT TRAY)
- ⑫ STEEL WIRE MOLD w/ 115V DUPLEX OUTLETS (G-3000) 1-RUN ABOVE SHELF, WIRED TO LOAD CENTER, 1-RUN UNDER SHELF WIRED CORD & PLUG
- ⑬ LIQUID FILLED ELECTRIC BASE BOARD HEATER
- ⑭ 115V, 160 CFM THERMOSTATICALLY CONTROLLED EXHAUST FAN
- ⑮ 115V, 80 CFM EXHAUST FAN (WIRED TO RESTROOM LIGHT)
- ⑯ KITCHENETTE w/ BASE CABINET, COUNTER, WALL MOUNTED CABINET & SPACE FOR FRIDGE
- ⑰ 6" WIDE WIRE CABLE TRAY SUSPENDED FROM CEILING FOR COMMUNICATION CABLES
- ⑱ EXTERIOR 4"x4" BLANK J-BOX w/ CONDUIT & PULL WIRE TO CEILING PLENUM INSIDE BUILDING
- ⑲ 115V HARD WIRED SMOKE DETECTOR w/ BATTERY BACKUP
- ⑳ EXTERIOR 8"x8"x30" NEMA 4 STEEL RACEWAY FOR POWER & COMMUNICATION CONNECTIONS
- ㉑ EXTERIOR BLANK J-BOX w/ 2" CONDUIT & PULL WIRE TO LOAD CENTER FOR POWER FEED
- ㉒ EXTERIOR BLANK J-BOX w/ 2qty 2" CONDUITS & PULL WIRE TO LOAD CENTER
- ㉓ EXTERIOR MANUAL TRANSFER SWITCH WITH POWER INLET (NOT SHOWN, SHIPS LOOSE)
- ㉔ EXTERIOR 200 AMP SINGLE POLE MAIN DISCONNECT SWITCH (NOT SHOWN, SHIPS LOOSE)
- ㉕ EXTERIOR HVAC COMPRESSOR UNIT (NOT SHOWN, SHIPS LOOSE)
- ㉖ GENERATOR PLUG

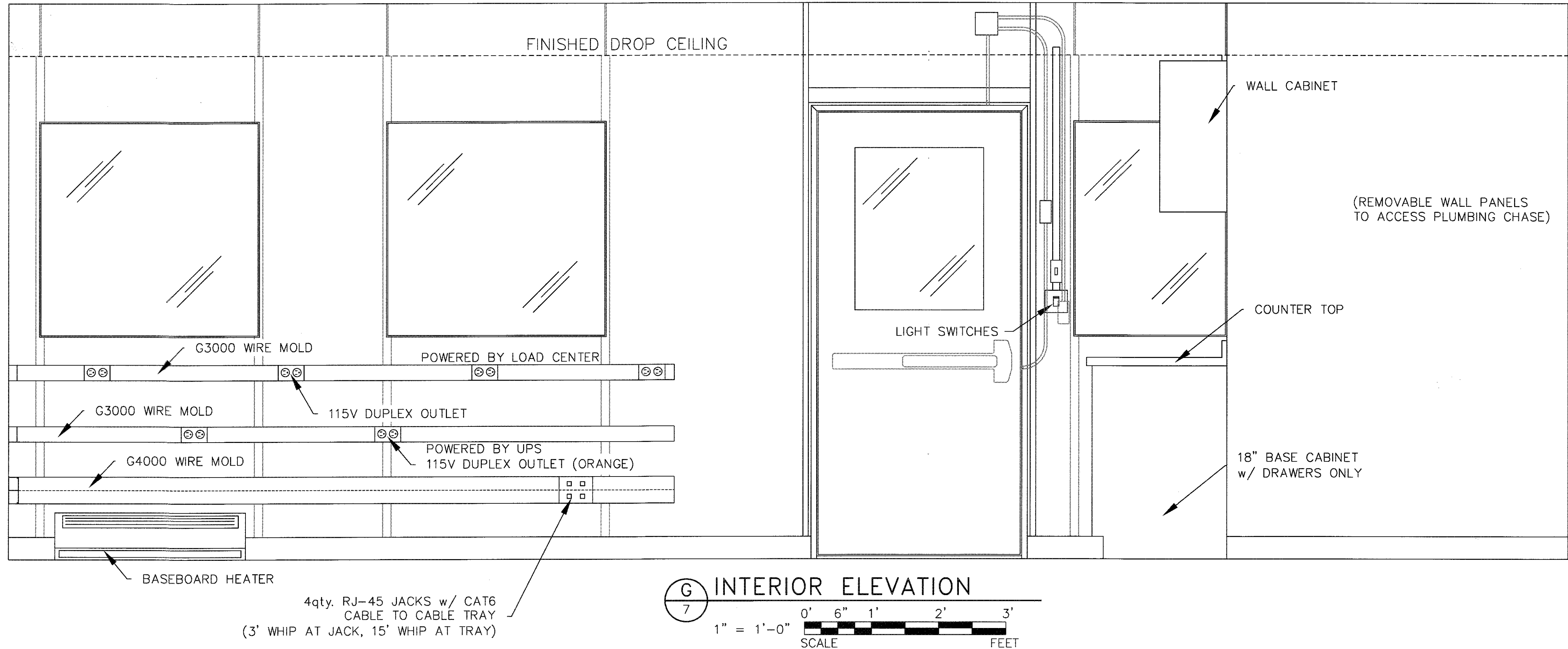
- * EXTERIOR ROOF STANDING SEAM ROOF (MEDIUM BRONZE) w/ 3" OVERHANG (SIDE B) 18" OVERHANG (SIDES C,D) & 21" OVERHANG (SIDE A) (SHIPS INSTALLED)
- * DOWN SPOUTS (TYP. 4) SHIP LOOSE
- * BULLET RESISTANT UL 752 LEVEL 3 CONSTRUCTION
- * 90" INTERIOR CEILING HEIGHT
- * ACOUSTICAL DROP CEILING (TILE CUT TO SIZE BY PORTAKING, TILE TO BE INSTALLED BY CONTRACTOR)
- * 3068 STEEL BULLET RESISTANT UL 752 LEVEL 3 DOOR & STEEL FRAME, VISION LITE
w/THE FOLLOWING HARDWARE:
 - NBCH-L44 CONTINUOUS HINGE
 - GLYNN JOHNSON #64 SILENCERS
 - VON DUPRIN 9975 x NL x 626 MORTISE EXIT DEVICE
 - BEST GREEN CONSTRUCTION CORE
 - VON DUPRIN 6211 x FSE x 12VDC x 32 ELECTRIC STRIKE
 - LCN DOOR CLOSER w/ HOLD OPEN ARM
- * 3068 FLUSH STEEL BULLET RESISTANT UL 752 LEVEL 3 DOOR & STEEL FRAME w/ LEVER LOCKSET, BEST GREEN CONSTRUCTION CORE & LCN CLOSER
- * GLAZING: BULLET RESISTANT UL 752 LEVEL 3 GRAY TINTED POLYCARBONATE
- * MINI BLINDS FOR ALL WINDOWS
- * INSULATION: WALLS R-19, FLOOR R-30 & CEILING R-30
- * INTERIOR PANEL FINISH: DIAMOND EMBOSSED ALUMINUM COVERED DRYWALL
- * SUBFLOOR: 2 LAYERS OF 3/4" ADVANTECH OSB
- * RAISED RUBBER DISK FLOOR (GRAY)
- * FORKLIFT POCKETS IN BASE w/ COVERS (SIDES A & B)
- * CRANE LIFTING POCKETS IN BASE w/ COVERS (ALL FOUR CORNERS)
- * THREE ROWS OF STRUT CHANNEL THRU-BOLTED TO WALL (SIDE C) FOR MOUNTING EQUIPMENT ONSITE
- * EXTERIOR HVAC UNIT SHIPS INSIDE OF BUILDING, TO BE INSTALLED ON SITE BY CONTRACTOR

DETAILS ON THIS SHEET PROVIDED FOR
REFERENCE ONLY. BOOTH COMPONENTS SHOWN
TO BE PROVIDED BY BOOTH MANUFACTURER.

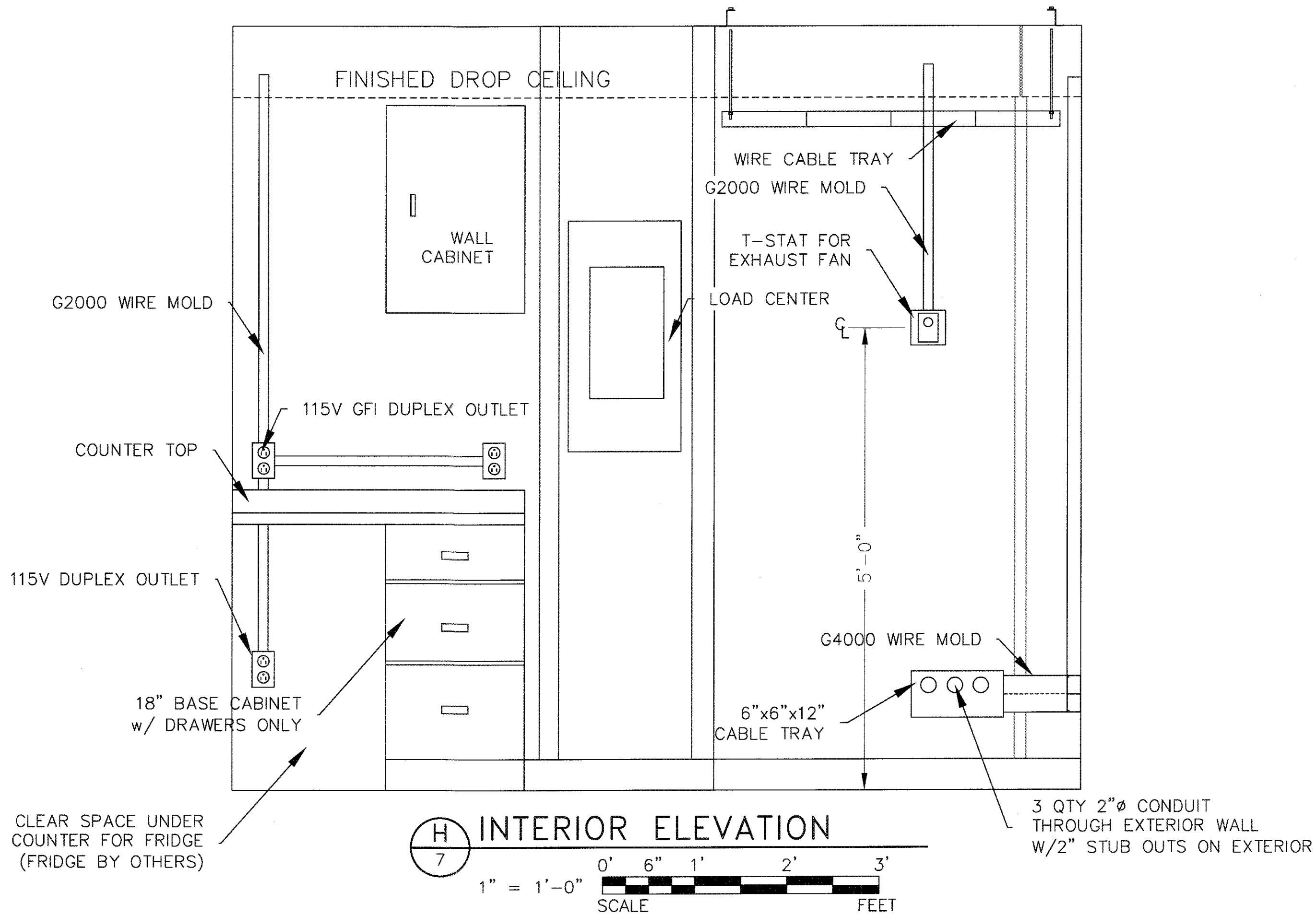


DETAILS ON THIS SHEET PROVIDED FOR REFERENCE ONLY. BOOTH COMPONENTS SHOWN TO BE PROVIDED BY BOOTH MANUFACTURER.

RPM10 SH 10 OF 18										RADIATION PORTAL MONITOR PROJECT STRADDLE CARRIER PORTAL (SCP) BOOTH REPLACEMENT BOOTH INTERIOR ELEVATIONS										APPROVED: PMG 4/29/16 CHECKED BY DATE PMG 4/29/16 7-3-17 DIRECTOR ENGR DATE PROJ. ENGR DATE midvale Jun 09, 2016 PRINTED BY: PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837																			
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G INTERIOR ELEVATION



H INTERIOR ELEVATION

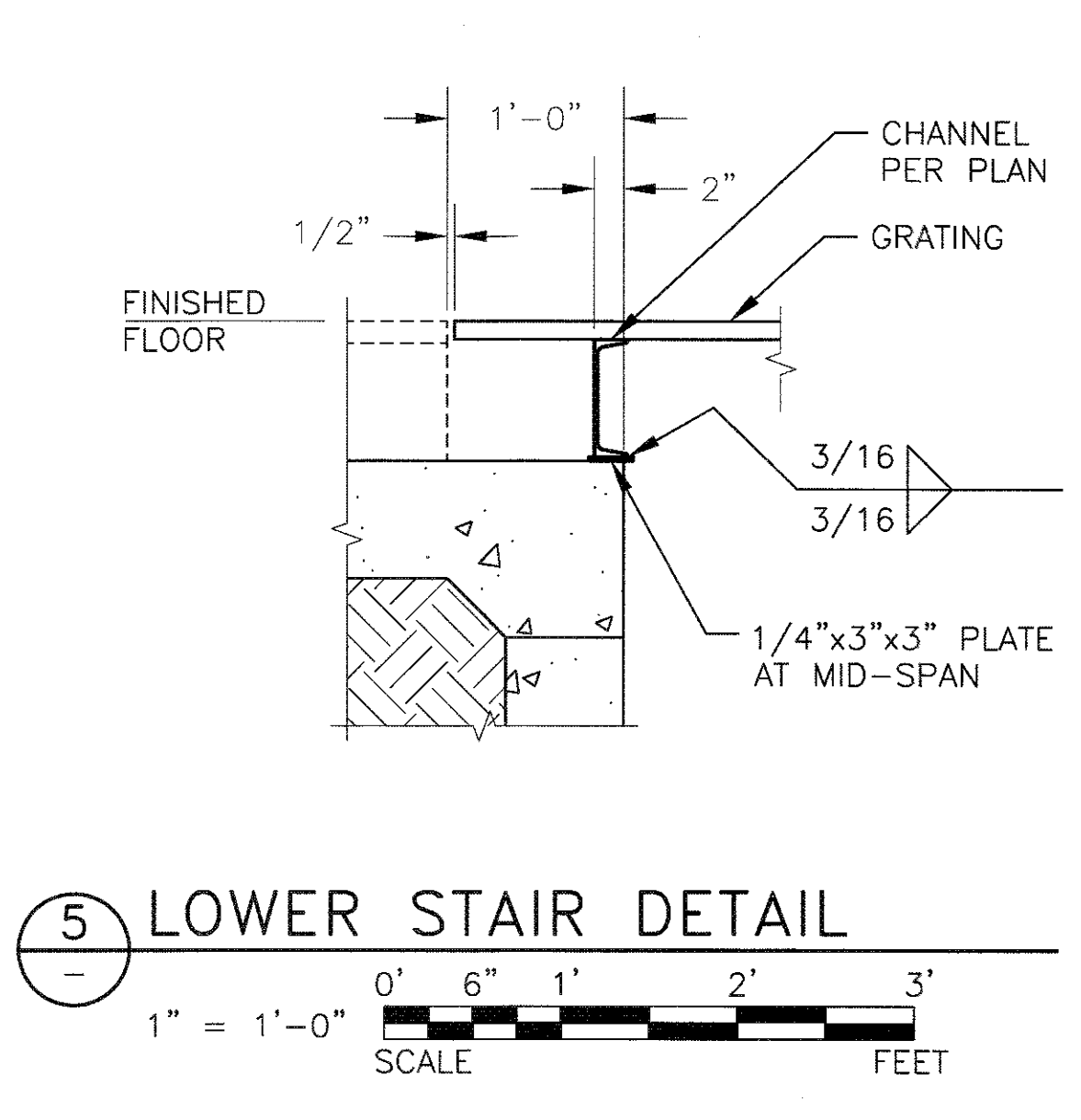
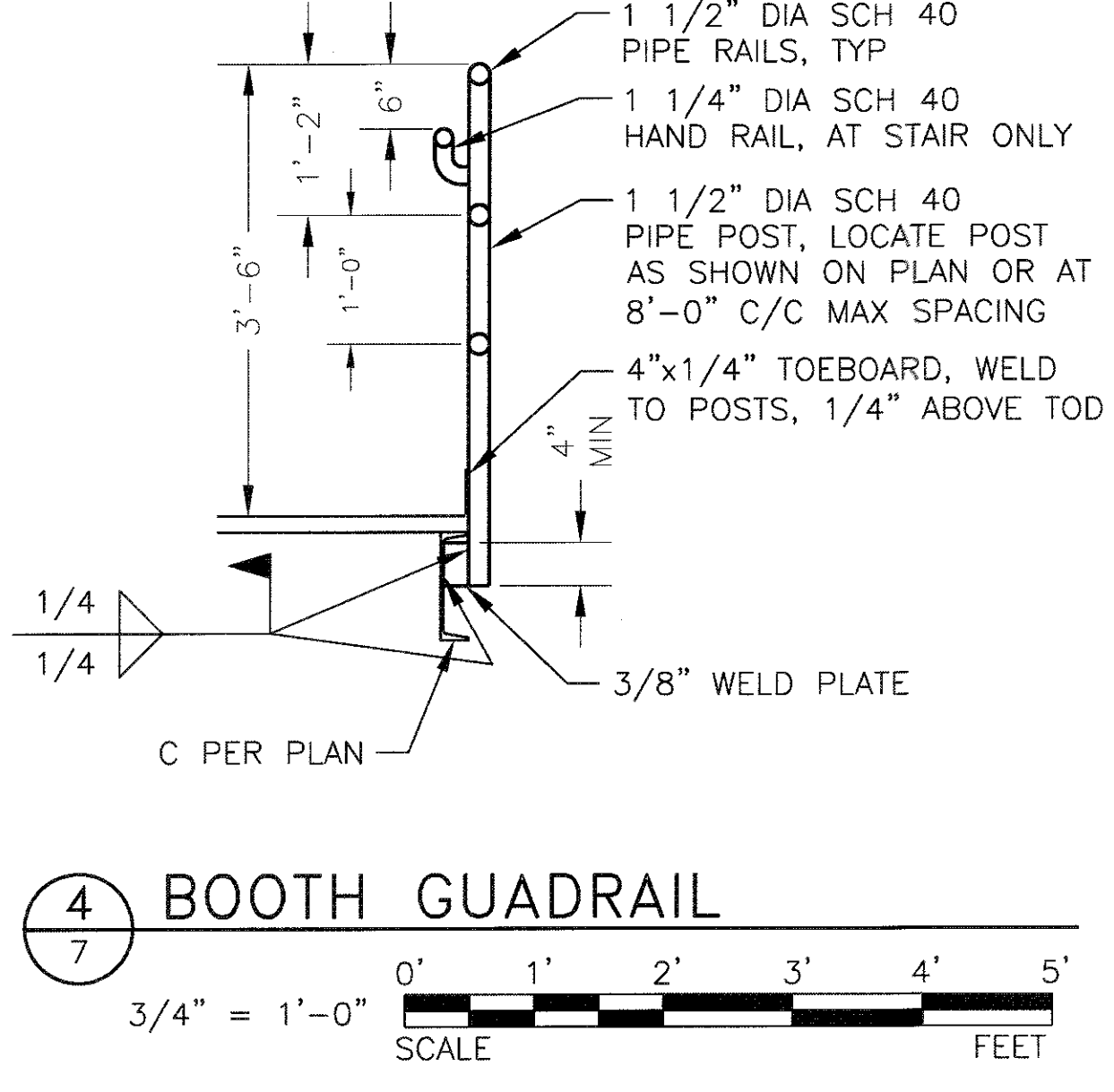
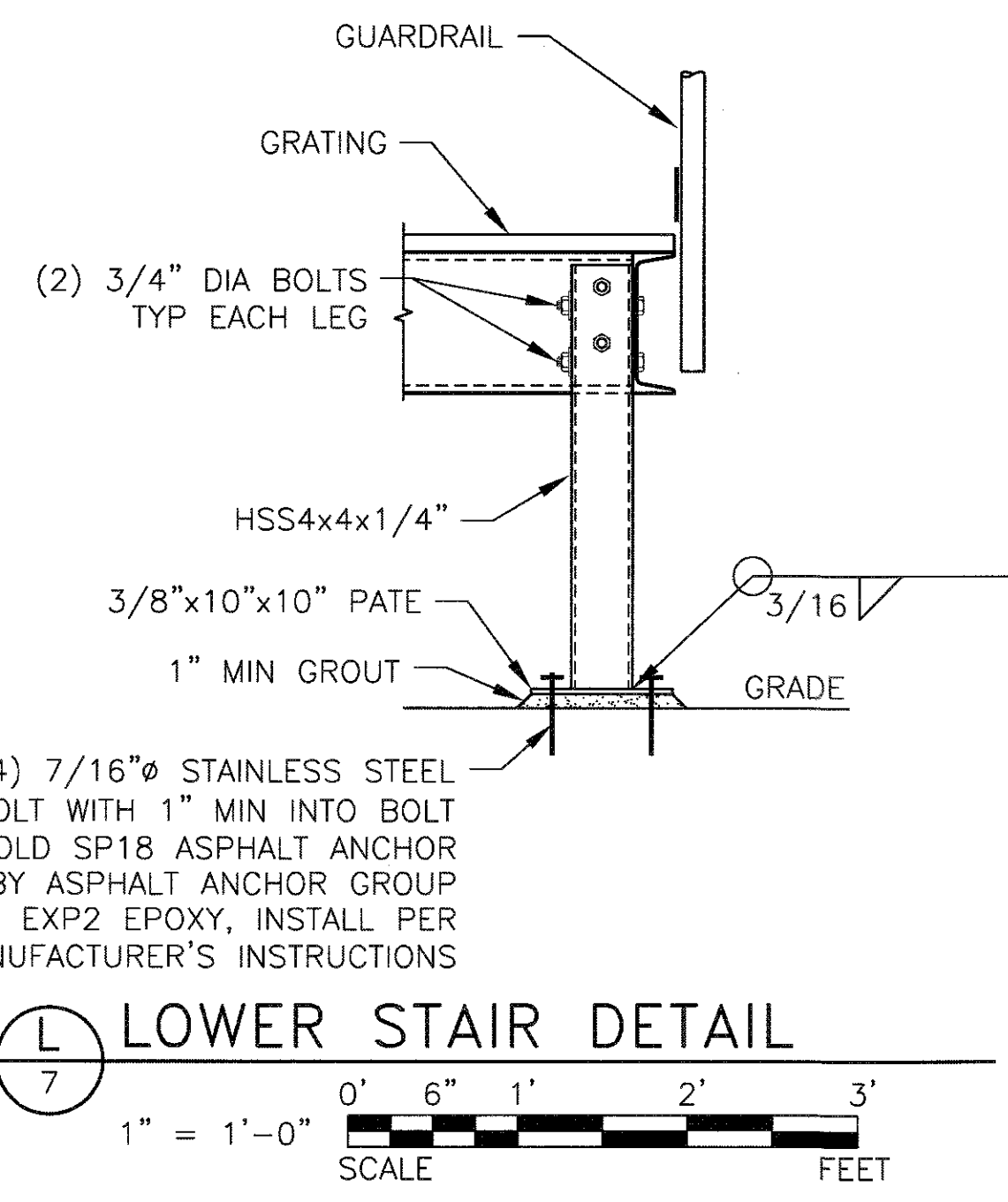
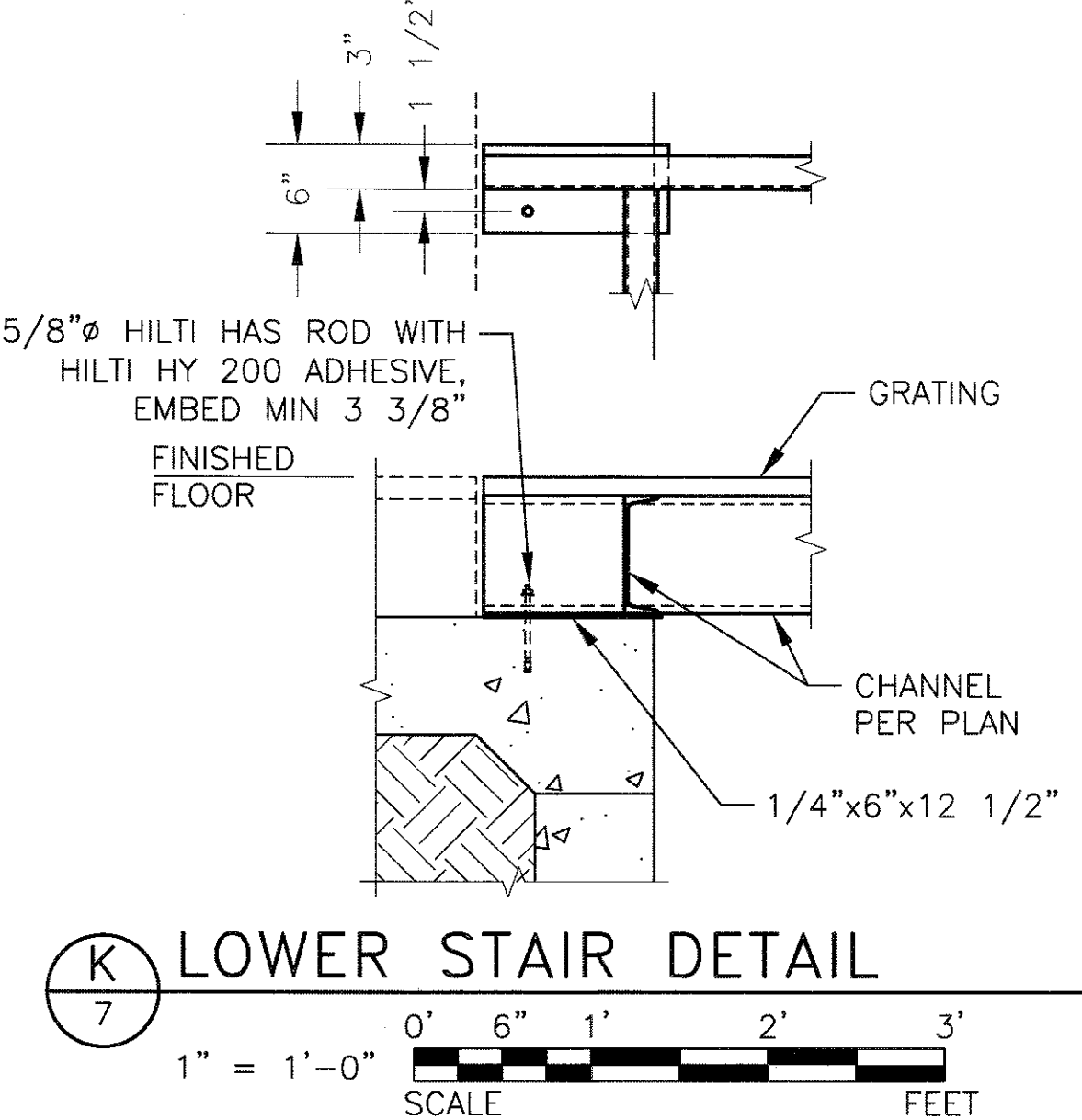
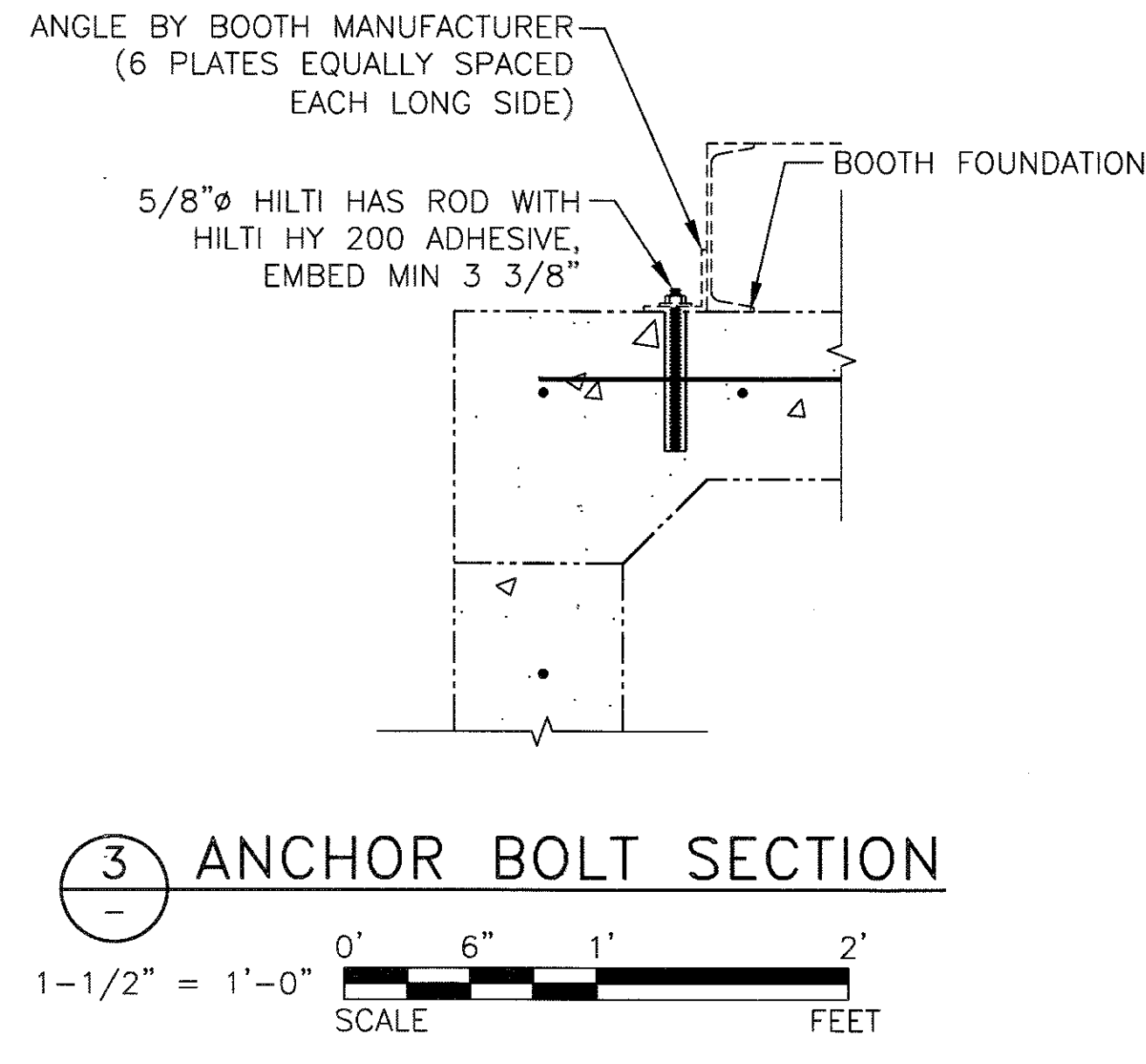
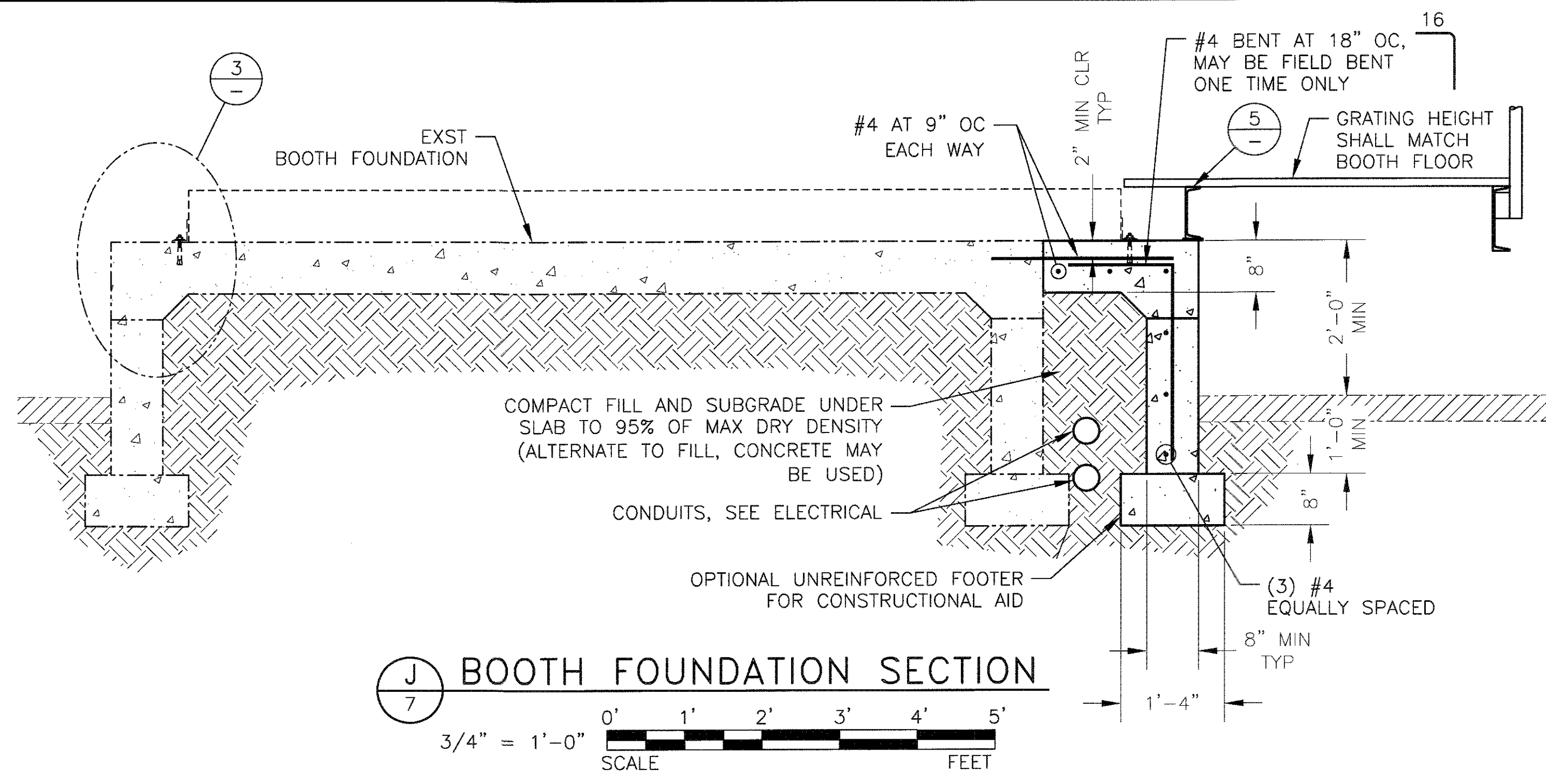
DETAILS ON THIS SHEET PROVIDED FOR REFERENCE ONLY. BOOTH COMPONENTS SHOWN TO BE PROVIDED BY BOOTH MANUFACTURER.

RPM11 SH 11 OF 18	RADIATION PORTAL MONITOR PROJECT				PMG 4/29/16	
	STRADDLE CARRIER PORTAL (SCP)				CHECKED BY DATE	
CONT/CONS: 070661	BOOTH REPLACEMENT				PMG 4/29/16	
M. ID: 101056.01	BOOTH INTERIOR ELEVATIONS				PROJ. ENGR DATE	
PHASE: B/D SET	TOWNSHIP: SECTION: RANGE: VERT: DRAWING SCALE: SHOWN				PRINTED BY: mtdaville Jun 09, 2016	
TACOMA WA 98401-1837				PORT ADDRESS: ONE SITCUM PLAZA		DATE: 6/9/16
TACOMA WA 98401-1837				DATE: 6/9/16		DATE: 6/9/16

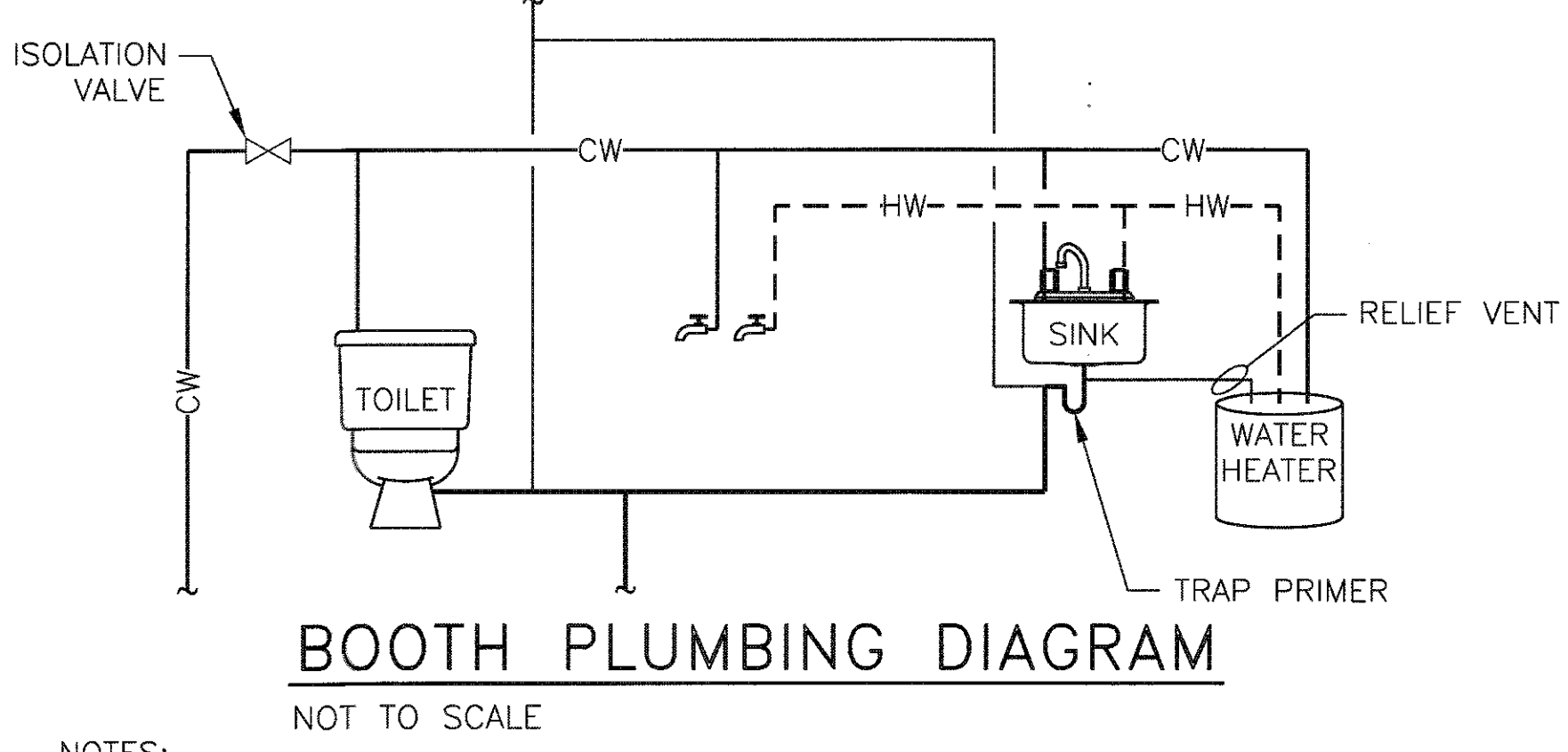
APPROVED: *Joe Vardulakis 7/3/17*

MEIER
12 W. Kennebec
Kennewick, WA 99336
JOB NO: 7833 CAD FILE: WS8940_11_2.dwg
MARK: 1 NO CHANGE
2 NO CHANGE
BY: MTD MTD
DATE: 6/9/16

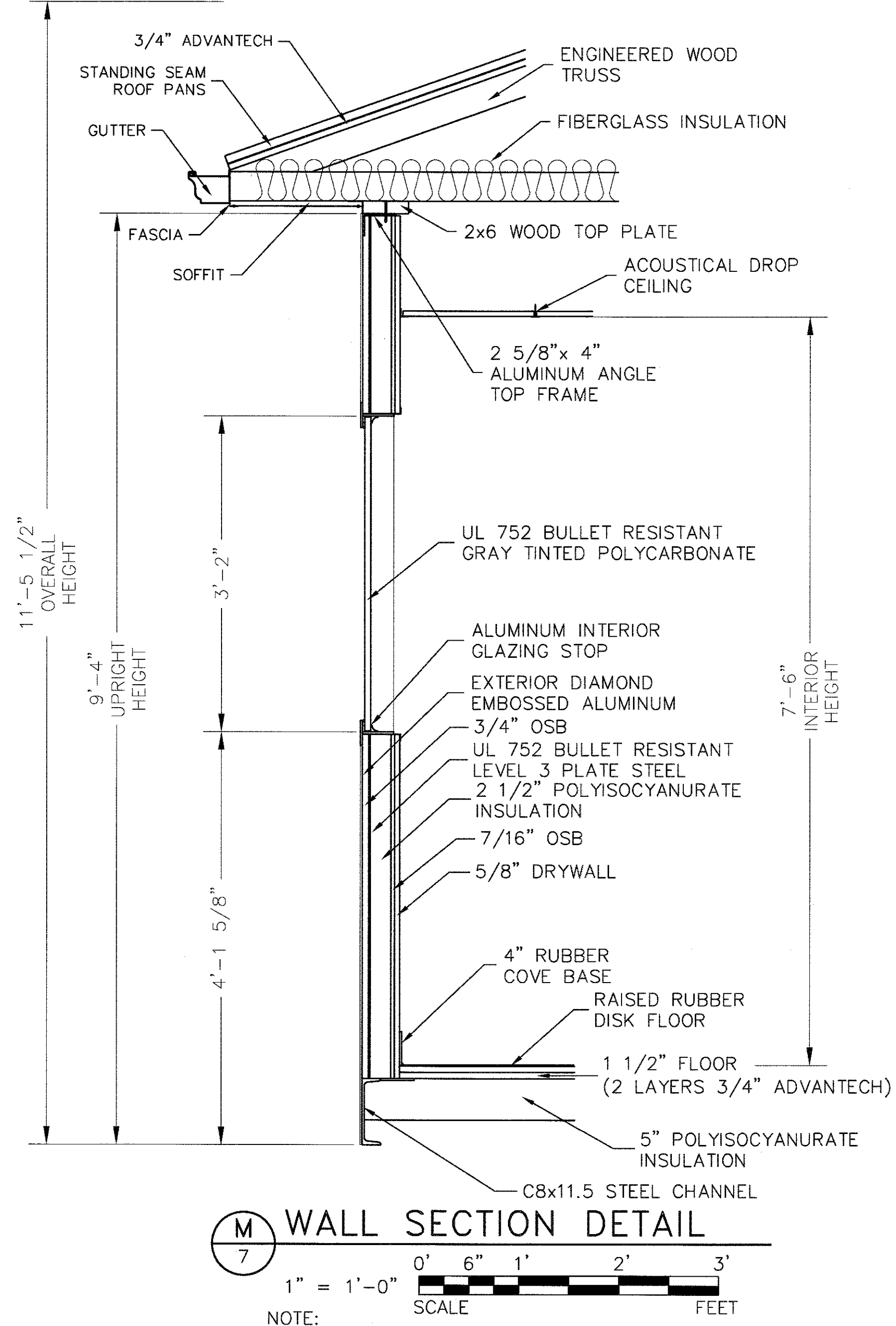
Port of Tacoma
P.O. BOX 100 TACOMA, WA 98401-0100



SPECIAL INSPECTION OF POST-INSTALLED ANCHORS			
VERIFICATION AND INSPECTION	INSPECTION: CONTINUOUS	INSPECTION: PERIODIC	REFERENCES
1. INSPECT AND RECORD THE FOLLOWING AT TIME OF INSTALLATION: PRODUCT DESCRIPTION INCLUDING PRODUCT NAME, ADHESIVE EXPIRATION DATE, CONCRETE TYPE AND STRENGTH, ANCHOR DIAMETER AND STEEL GRADE, COMPLIANCE OF DRILL BIT WITH ICBO REPORT, HOLE DIAMETER AND LOCATION, CLEANLINESS OF HOLE AND ANCHOR AND ANCHOR EMBEDMENT.	-	X	PER MANUFACTURER'S ICC EVALUATION REPORT



NOTES:
1. BOOTH BATHROOM WILL BE RECEIVED WITH ROUGH-IN PLUMBING INSTALLED. BATHROOM FIXTURES ARE GFE. CONTRACTOR RESPONSIBLE TO RECEIVE, INVENTORY, STORE AND INSTALL BATHROOM EQUIPMENT AND FIXTURES AS REQUIRED.
2. ALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE UNIFORM PLUMBING CODE AND ALL OTHER GOVERNING CODES.
3. BATHROOM PLUMBING CONNECTIONS TO OUTSIDE SERVICES PROVIDED BY OTHERS.



Port of Tacoma
12 W. Kennewick Ave.
Kennewick, WA 98541
JOB NO: 7833

MEER
ARCHITECTURE-ENGINEERING
P: 509.735.1589
F: 509.735.1590
JOB NO: 7833

MARK: 1 NO CHANGE
2 NO CHANGE

DATE: 6/3/2016
DATE: 6/3/2016

APPROVED:
DIRECTOR: *[Signature]*
PRINTED BY: mtdaville
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

APPROVED:
CHECKED BY: *[Signature]*
DATE: 4/29/16
DATE: 4/29/16
DATE: 6/9/16

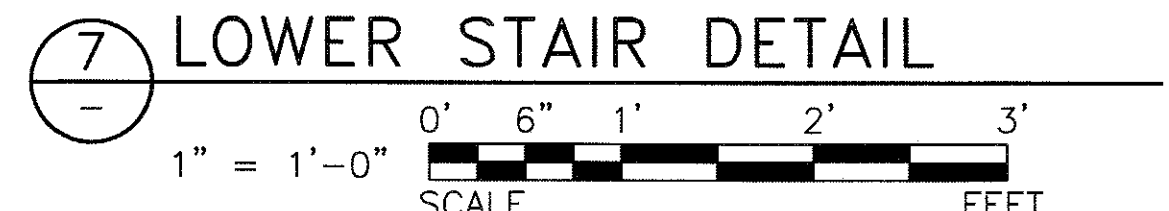
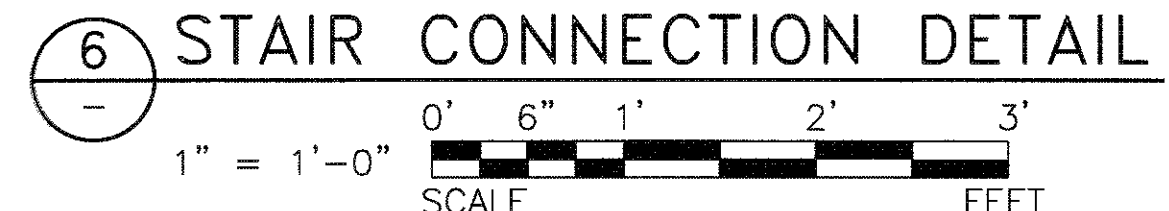
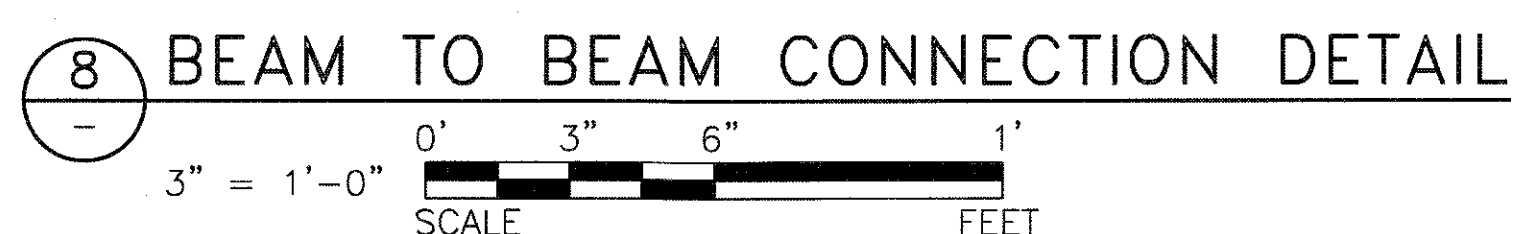
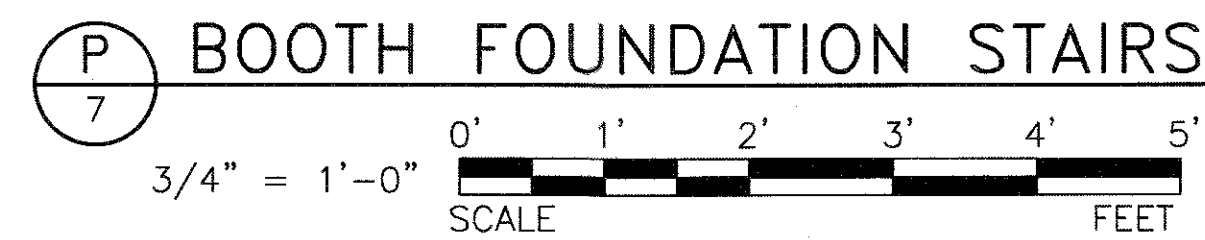
RADIATION PORTAL MONITOR PROJECT
STRADDLE CARRIER PORTAL (SCP)
BOOTH REPLACEMENT
BOOTH SECTIONS AND DETAILS

CONTRACT: 070661
M. ID: 101056.01
PHASE: 101056.01

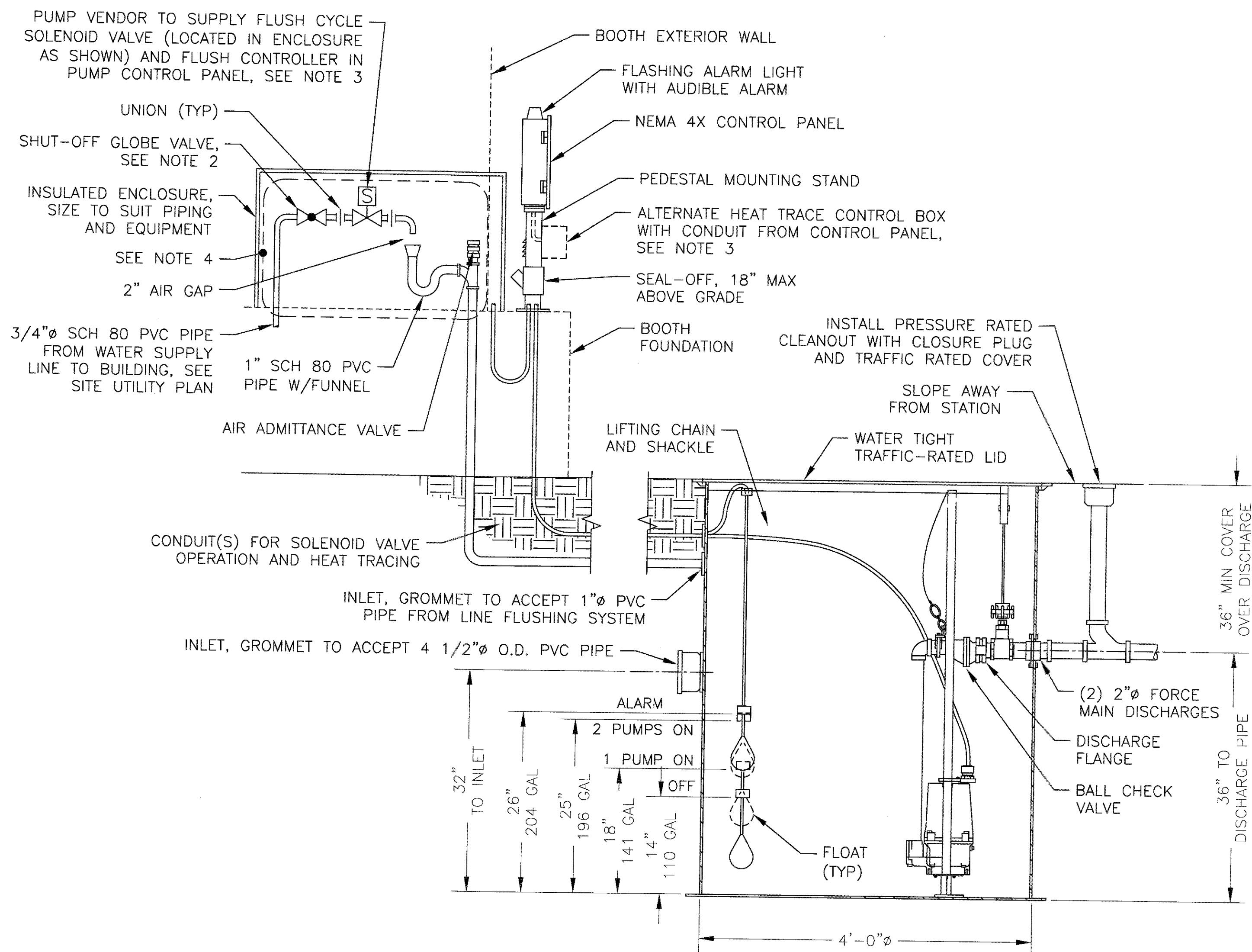
RPM12
SH 12 OF 18

TOWNSHIP: 070661
DATE: 101056.01
PARCEL: 101056.01

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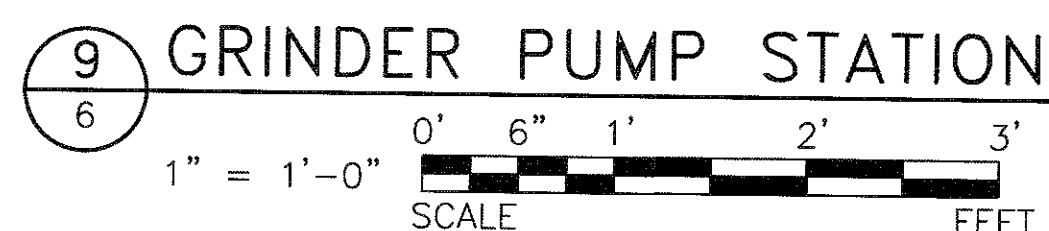
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DISAPPEARING
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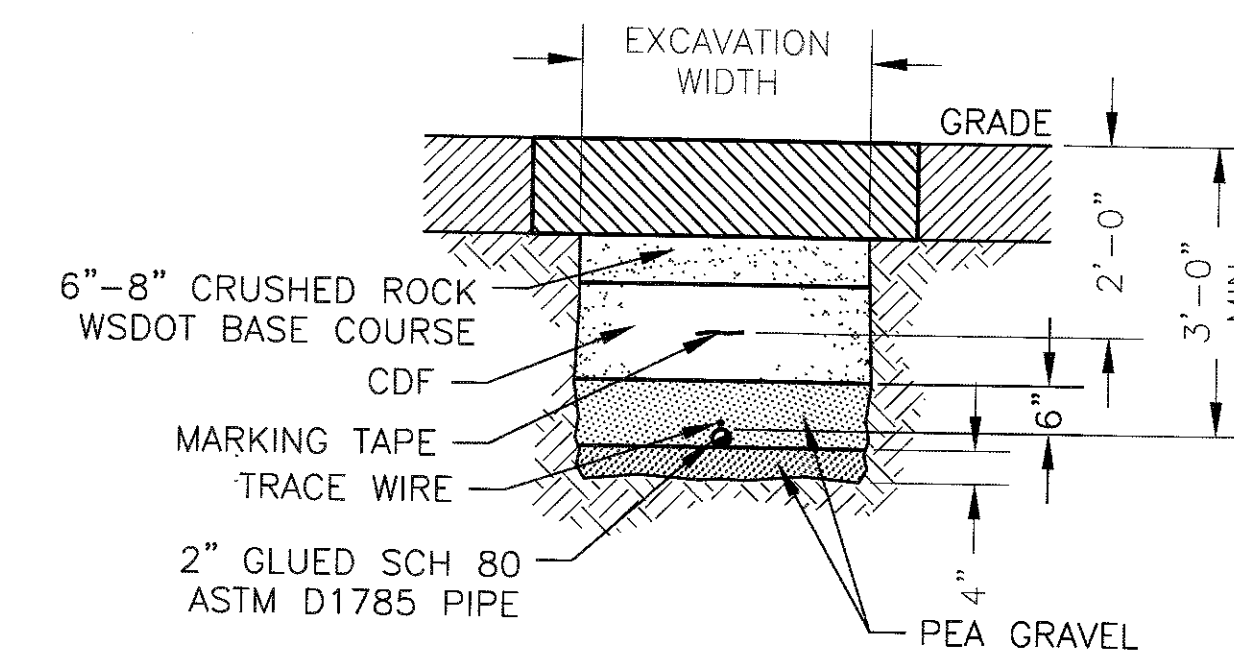
THE DUPLEX PACKAGED SEWAGE EJECTOR STATION SHALL INCLUDE THE FOLLOWING:

- ONE (1) PENTAIR HYDROMATIC SUBMERSIBLE SEWAGE GRINDER PUMP, MODEL HPG(X)200 WITH 2.0 HP, 3450 RPM, 240V/60/1 PHASE EXPLOSION PROOF MOTOR AND 30' LONG POWER CABLE. ELECTRICAL CONNECTION AND LOCAL DISCONNECT BY OTHERS. PUMP CAN DELIVER 9 GPM AT 38.9 PSIG.
- ONE (1) DUPLEX CONTROL PANEL WITH OUTDOOR NEMA 4X THERMOPLASTIC ENCLOSURE, HIGH WATER ALARM, HAND-OFF-AUTOMATIC SWITCHES AND OTHER DEVICES AS INDICATED. PANEL TO BE SUPPLIED WITH INTRINSICALLY SAFE CIRCUITRY. CONTROL PANEL SHALL BE PEDESTAL MOUNTED AT THE SEWAGE STATION.
- ONE (1) 48"Ø X 73" DEEP HDPE OR CONCRETE SUMP WITH ALL FITTINGS FOR PIPE AND ELECTRICAL CONNECTION.
- ONE TRAFFIC RATED ALUMINUM COVER PLATE WITH HINGED DOOR AND HOLD OPEN BAR TO SATISFY TYPE HS-20 LOADING.

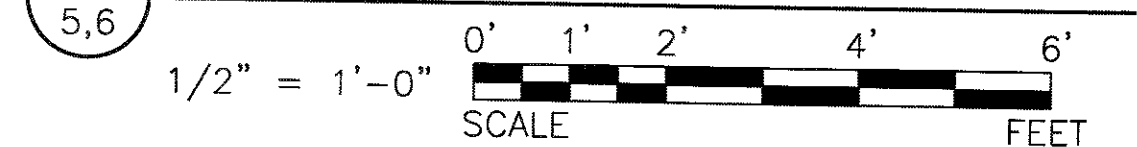


NOTES:

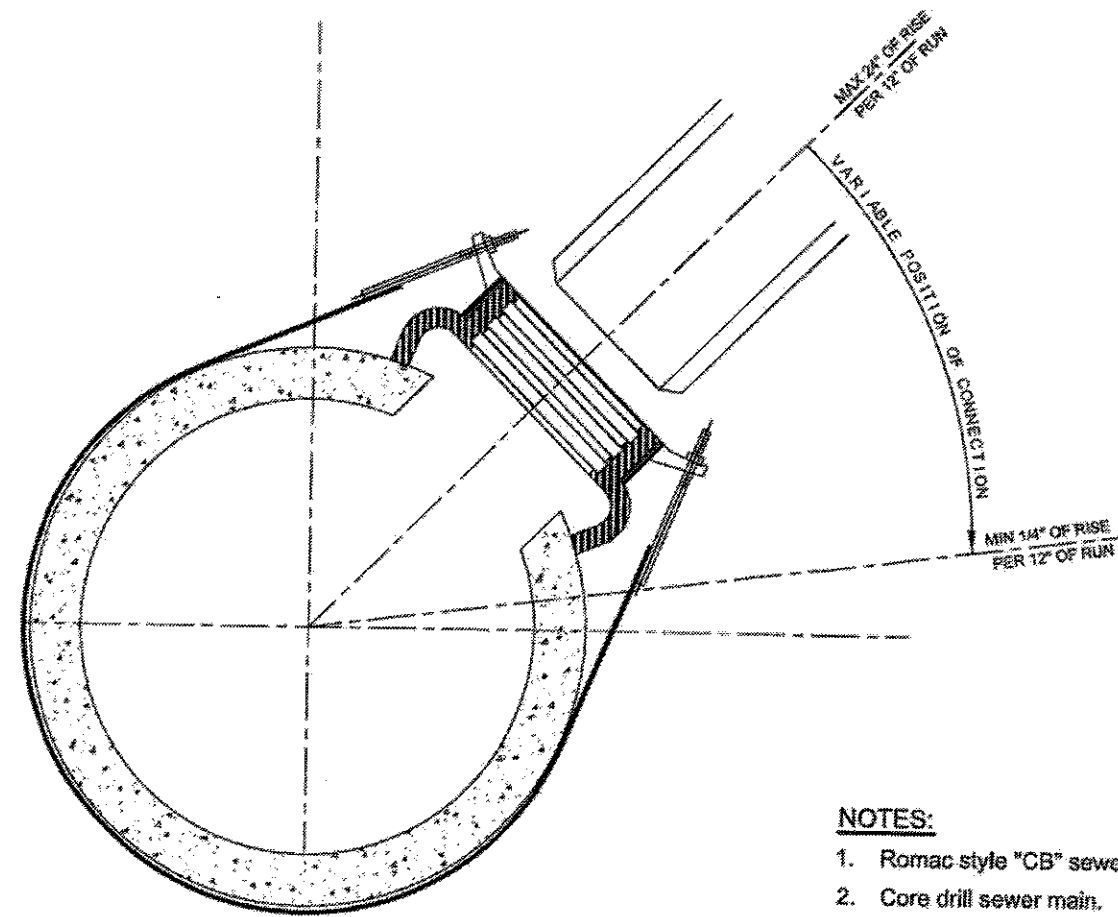
- 1.) A CONCRETE ANCHOR IS REQUIRED TO PREVENT TANK FROM FLOATING. SEE INSTALLATION INSTRUCTIONS OR SPECIFIC CUT SHEET. MINIMUM ANCHOR WEIGHT OF 4.800 LBS (33 CUBIC FT OF CONCRETE).
- 2.) SET GLOBE VALVE TO PROVIDE APPROXIMATELY 5 GPM OF WATER FOR ±2 MINUTES EVERY 24 HOURS. SET SUCH THAT SUMP WATER LEVEL DOES NOT INCREASE WHILE PUMP AND FLUSH WATER ARE RUNNING.
- 3.) SOLENOID VALVE FLUSH CONTROLLER POWER TO BE DERIVED FROM PUMP PANEL CONTROL POWER SUPPLY. HEAT TRACE CABLE POWER SUPPLY TO BE VIA DEDICATED 120V/1 PHASE GFCI-PROTECTED CIRCUIT. SEE ELECTRICAL DRAWINGS. VALVE SHALL BE EXPLOSION PROOF COMPLYING WITH NEC CLASS 1 DIVISION 2.
- 4.) PROVIDE PARALLEL, SELF-REGULATING HEAT TRACE CABLING ON EXPOSED PIPING AND VALVES IN VAULT. LOCATE CONTROLS IN PUMP CONTROL PANEL OR SEPARATE PANEL ON SAME PEDESTAL AS SHOWN.
- 5.) VALVE BOX IS A CLASS 1 DIV 2 AREA. ALL ELECTRICAL CONNECTIONS WITHIN VALVE BOX SHALL BE EXPLOSION PROOF. SEAL-OFFS TO BE INSTALLED WITHIN 10' OF THE CLASSIFIED AREA BOUNDARY ON ALL CONDUITS THAT TERMINATE INSIDE CLASSIFIED AREAS.



Q SANITARY SEWER SECTION



NOTE:
COMPACT BEDDING MATERIAL TO 95% MAXIMUM DENSITY PER ASTM D1557 EXCEPT DIRECTLY OVER THE PIPE, WHERE BEDDING MATERIAL SHALL BE HAND TAMPED ONLY.



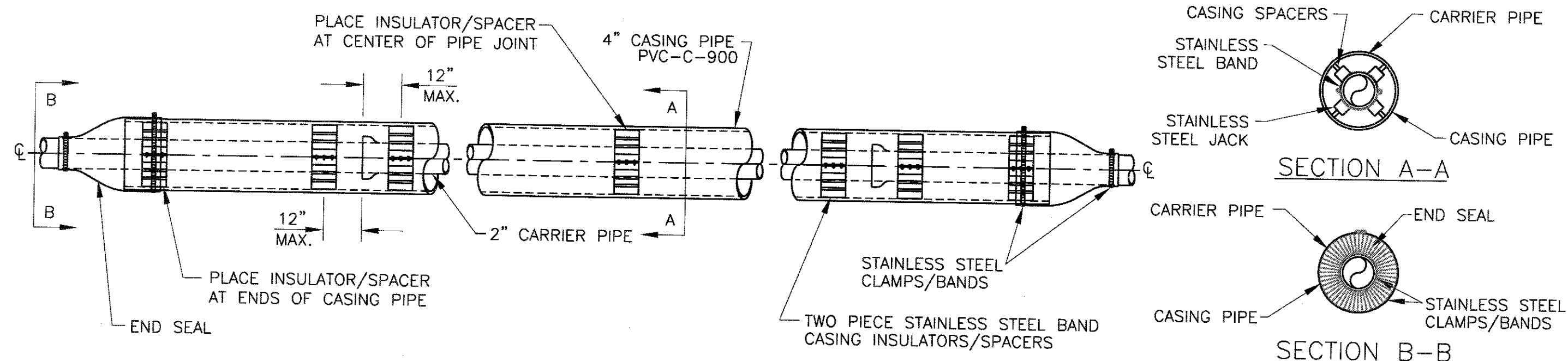
SANITARY SEWER MAIN CROSS SECTION

NOTES:

1. Romac style "CB" sewer saddle or approved equal.
2. Core drill sewer main.
3. Portions of the City's sanitary sewer system have been lined. If a lined pipe is encountered during connection of the new side sewer, the Construction Division shall be contacted at (253) 591-0760 for further instructions.
4. Sewer laterals shall not extend beyond the interior wall of the sanitary sewer main.

11 SIDE SEWER CONNECTION

5 SCALE: NOT TO SCALE

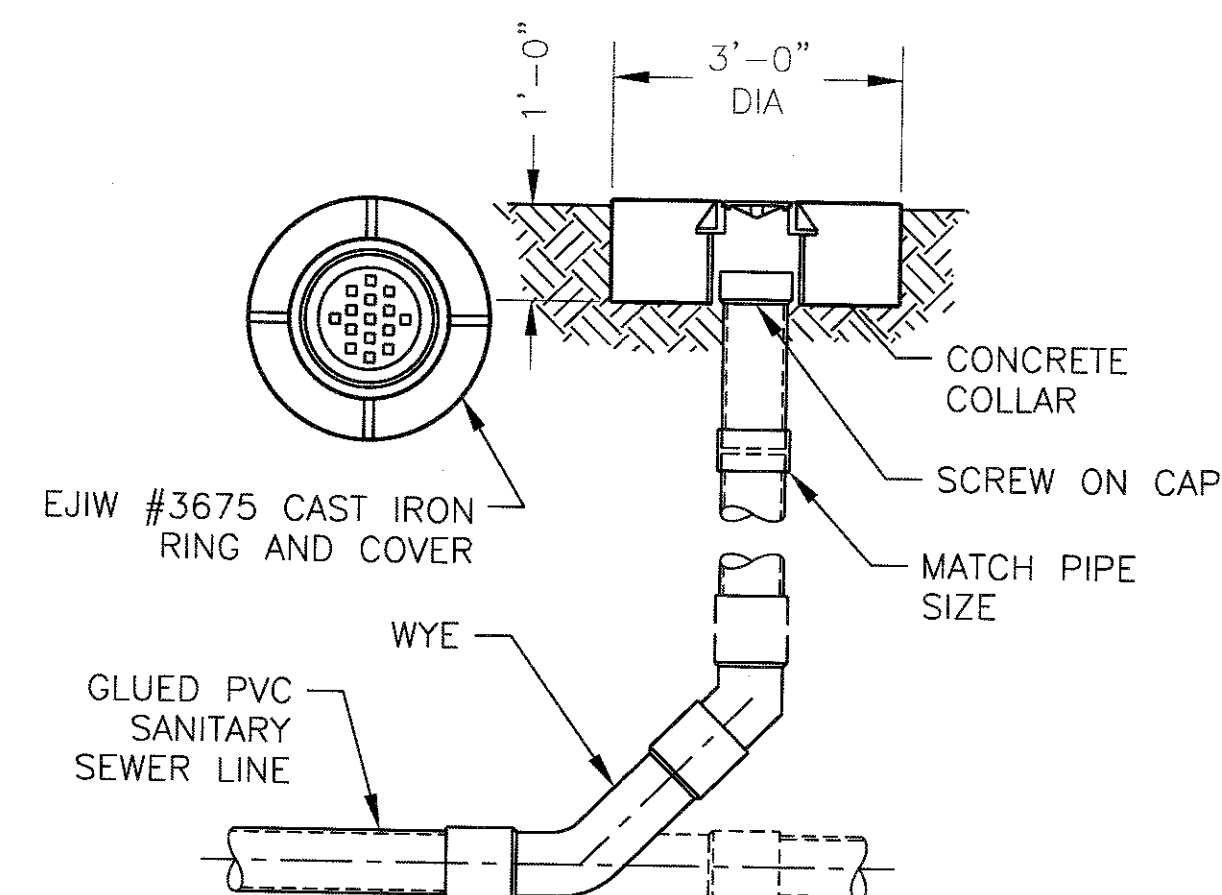


13 SANITARY SEWER CASING

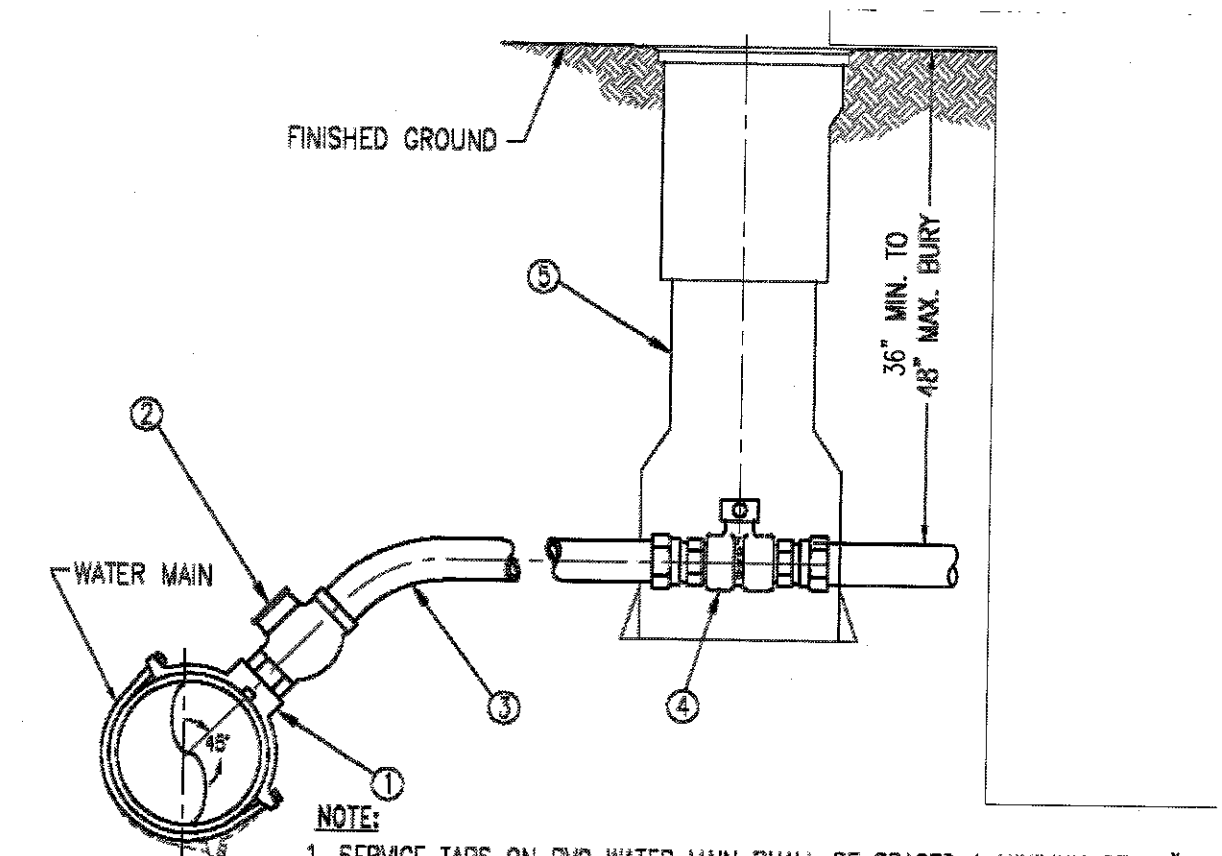
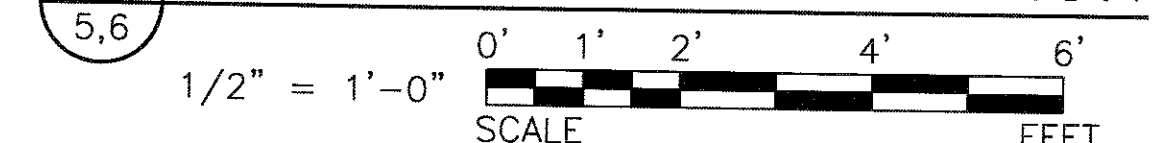
6 SCALE: NOT TO SCALE

NOTE:

- 1.) MIN OF THREE SPACERS IS REQUIRED PER JOINT; SPIGOT, MIDDLE & BELL (MAX OF 2 FT SEPARATION OF SPACERS AT JOINT). MAX ALLOWABLE CLEARANCE BETWEEN I.D. OF CASING PIPE & TOP RUNNER OF SPACER IS 1".



10 SANITARY SEWER SECTION



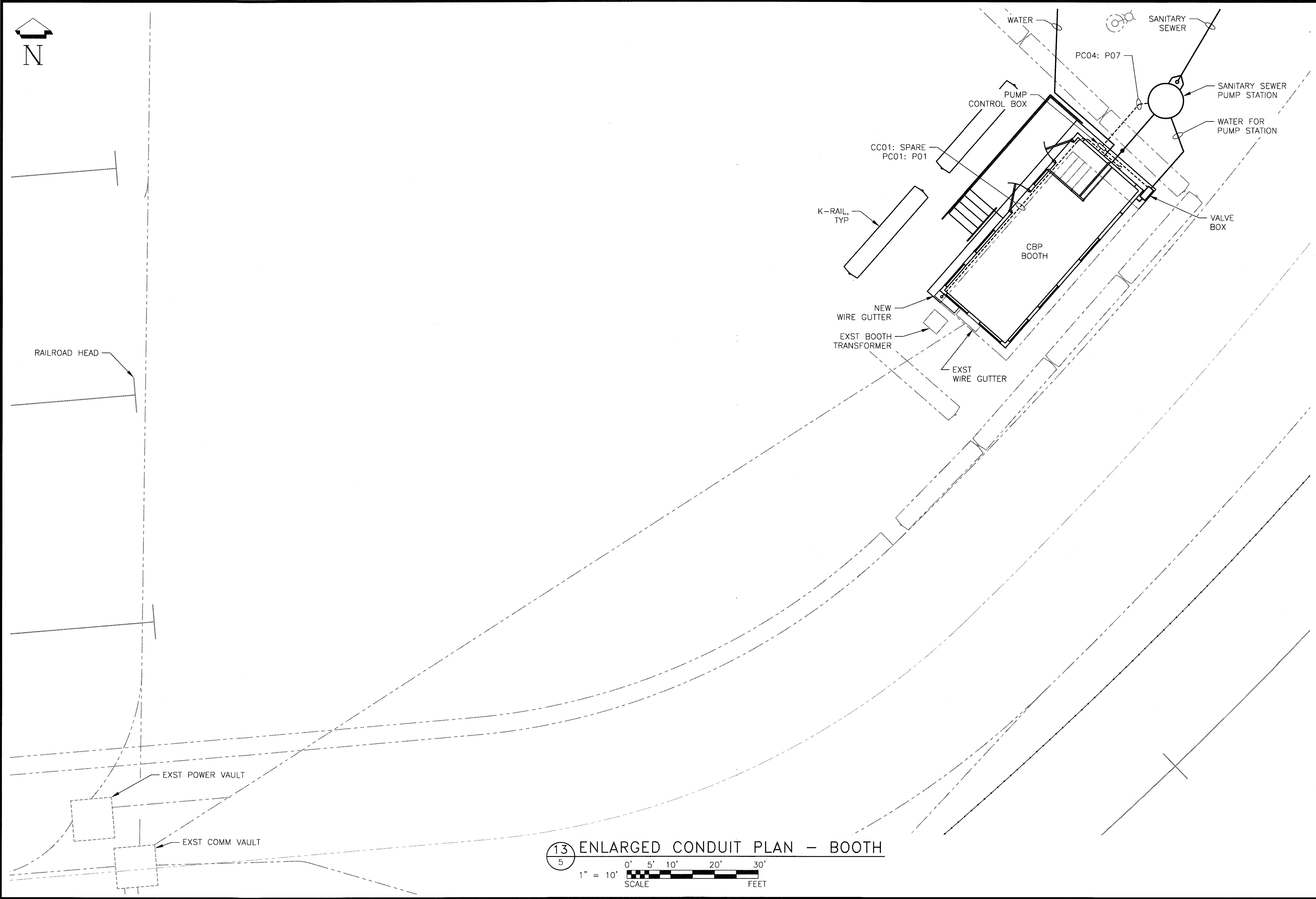
MATERIAL LIST		
ITEM NO.	NO. REQ'D	DESCRIPTION
1	1	SERVICE SADDLE
2	1	CORPORATION STOP
3	1	HDPE
4	1	CURB STOP
5	1	SERVICE BOX

12 WATER CONNECTION

6 SCALE: NOT TO SCALE

Port of Tacoma 12 W. Kennewick Ave. Kennewick, WA 99336 JOB NO: 7833 CAD FILE: WS8940_14_2.dwg		APPR: DATE: 6/3/2016 BY: DATE: 6/3/2016 MARK: 1 NO CHANGE 2 CITY COMMENTS	
CHECKED BY: PMG 4/29/16 DATE: 4/29/16 PROJECT: RADIATION PORTAL MONITOR PROJECT BOOTH REPLACEMENT SECTIONS AND DETAILS RANGE: 070661 TOWNSHIP: 101056 01 DAT-HRZ: 810 SET PARCEL: B10		DRAWING SCALE: SHOWN TACOMA, WA 98401-1837	

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RPM15 SH 15 OF 18 CONT/CONS: 070661 M. ID: 10056-01 PHASE: BID SET PARCEL	RADIATION PORTAL MONITOR PROJECT STRADDLE CARRIER PORTAL (SCP) BOOTH REPLACEMENT ENLARGED CONDUIT PLAN		APPROVED: <i>Joe L. ...</i> DIRECTOR ENG. DATE: 7/27/17 PRINTED BY: mtdavalle Jun 09, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		PAA 4/29/16 CHECKED BY DATE		Port of Tacoma 12 W. Kennedy Ave. Tacoma, WA 98401 JOB NO: 7833 CAD FILE: WS8940_15_2.dwg MARK: REVISION: 1 NO CHANGE BY: MTD DATE: 6/3/2016 APPR: PMG DATE: 6/3/2016	
	TOWNSHIP: DAT-HRZ: RANGE: VERT: SECTION: DRAWING SCALE: SHOWN		PAA 4/29/16 PAA 4/29/16 PAA 4/29/16 PAA 4/29/16		BY: MTD DATE: 6/3/2016 APPR: PMG DATE: 6/3/2016		BY: MTD DATE: 6/3/2016 APPR: PMG DATE: 6/3/2016	

BOOTH

VOLTAGE : 120/240V, 1-PHASE, 3-WIRE
AMPERES: 200 MAIN BRKR : 150 AIC : 22,000
LUGS : Bottom MOUNTING : SURFACE
HEIGHT : WIDTH : DEPTH :
FEEDERS/CONDUIT: (SEE ONE-LINE DIAGRAM)
TYPE :

EXISTING

(SUPPLIED WITH MODULAR BOOTH)

PANEL A

CIRCUIT DESCRIPTION	P	BKR		ØA	ØB		BKR	P	CIRCUIT DESCRIPTION
HVAC	2	30	1				2	2	TRANSIENT VOLTAGE SURGE SUPPRESSION
HVAC	-	-	3				4	-	TRANSIENT VOLTAGE SURGE SUPPRESSION
BASEBOARD HEATERS	2	20	5				6	20	BASEBOARD HEATERS
BASEBOARD HEATERS	-	-	7				8	-	BASEBOARD HEATERS
115V DEDICATED OUTLET	1	30	9				10	30	WATER HEATER
115V DEDICATED OUTLET	1	30	11				12	20	EXTERIOR GFI OUTLETS
115V OUTLET (FRIDGE)	1	20	13				14	20	OUTLETS IN G4000
115V GFI OUTLET (KITCHEN)	1	20	15				16	20	OUTLETS IN G4000
INTERIOR LIGHTS	1	20	17				18	20	OUTLETS IN G4000
BATHROOM LIGHT/FAN	1	20	19				20	20	115V GFI BATHROOM
SMOKE DETECTOR	1	20	21				22	20	EXTERIOR LIGHTS
			23				24	20	EXHAUST FAN
			25	1800			26	25	2 SEWAGE PUMP
			27		1800		28	-	
			29	180			30	20	1 HEAT TRACE - GFCI
			31				32		
			33				34		
			35				36		
			37				38		
			39				40		
			41				42		

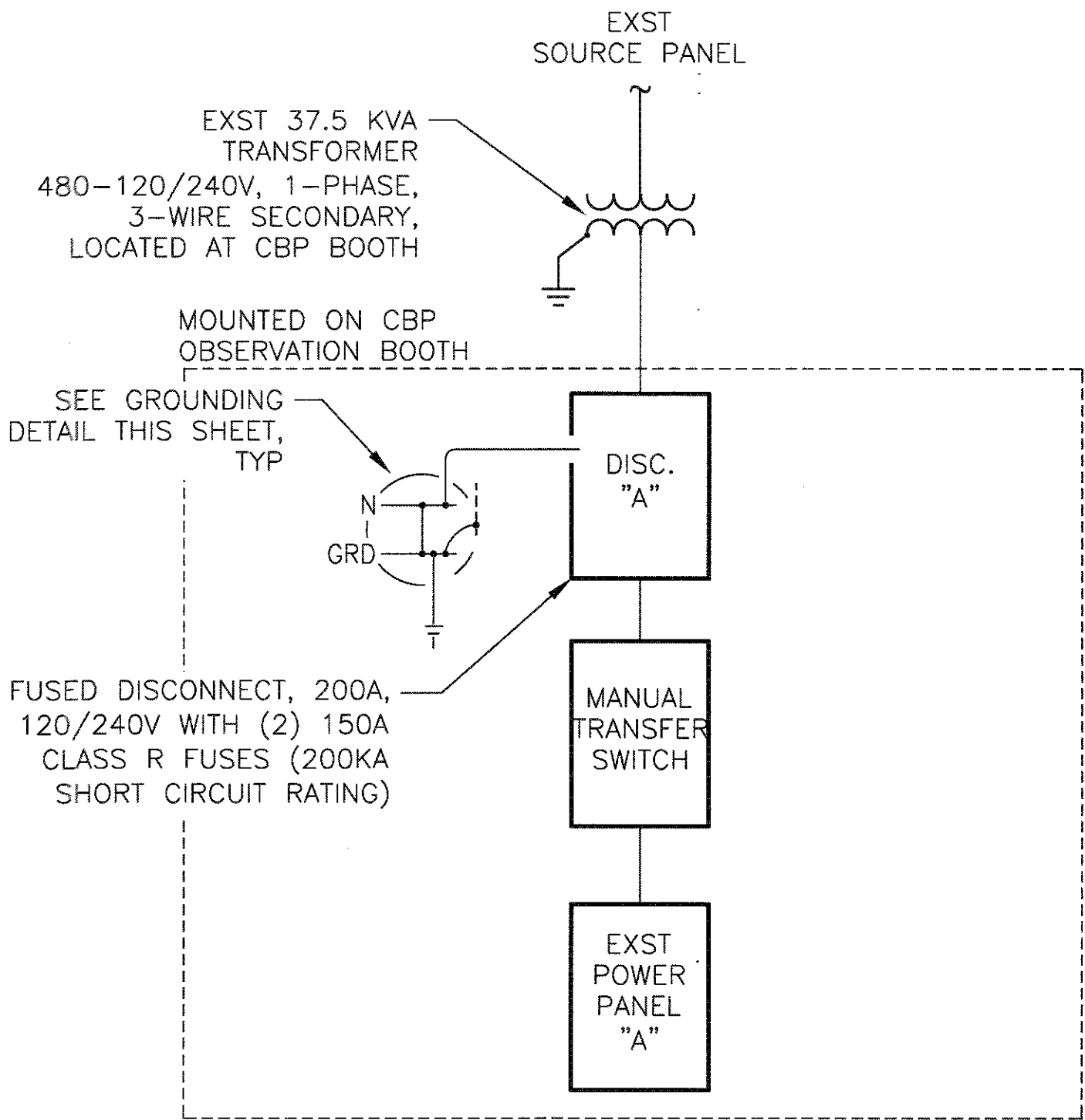
TOTAL VOLT-AMPS

TOTAL CONNECTED LOAD: - KVA - AMPS

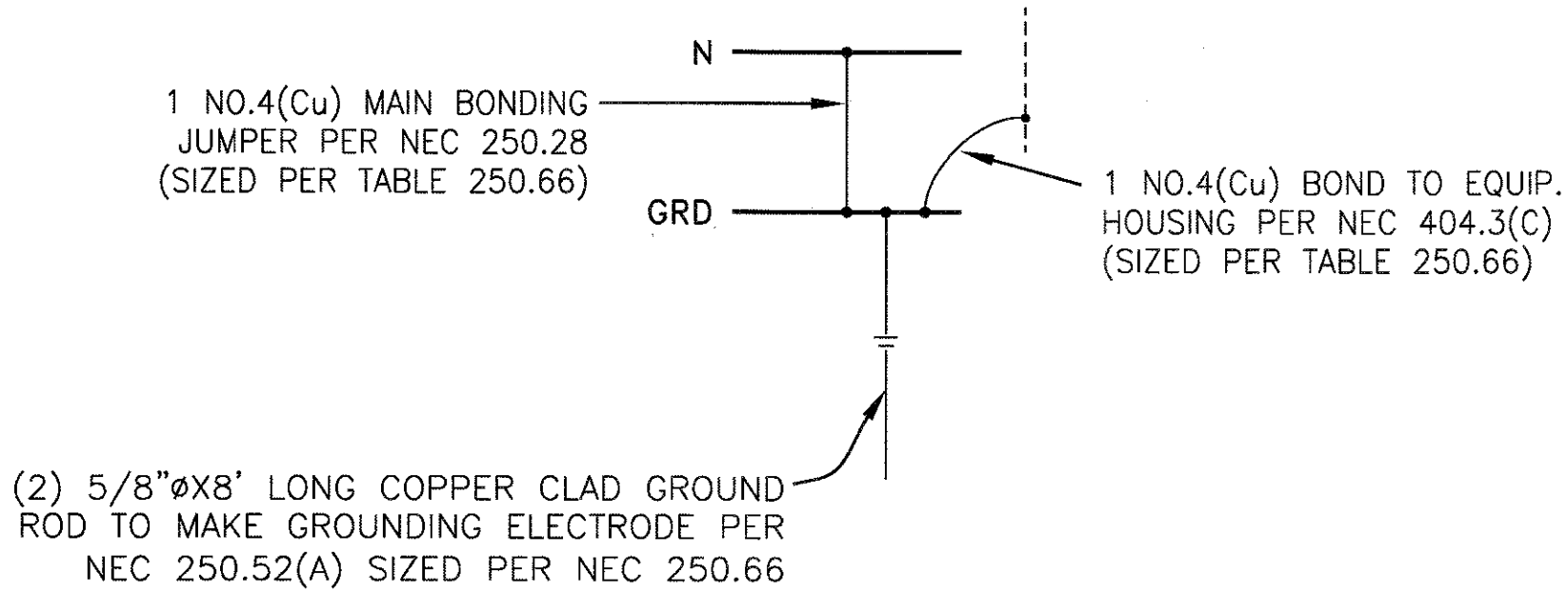
TOTAL DEMAND LOAD: KVA AMPS

REMARKS:

NOTE:
PROVIDE PANEL WITH TRANSIENT VOLTAGE SURGE SUPPRESSION
(120 kA, 120/240V, 1Ø, 3W).



CONNECTION DIAGRAM NOT TO SCALE



GROUNDING DETAIL NOT TO SCALE

RPM16

SH 16 OF 18

CONT/CONS: 070661

M. ID: 101056.01

PHASE: 810 SET

RADIATION PORTAL MONITOR PROJECT

STRADDLE CARRIER PORTAL (SCP)

BOOTH REPLACEMENT

PANEL SCHEDULE

TOWNSHIP:

DAT-HRZ:

PARCEL:

SECTION:

VERT:

DRAWING SCALE: NONE

APPROVED:

PROJECT ENG

DATE: 7/31

PRINTED BY: mtdavalle Jun 09, 2016

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

PA 4/29/16

CHECKED BY: [Signature]

DATE: 4/29/16

PROJ. ENGR: [Signature]

DATE: 4/29/16

Port of Tacoma

12 W. Kennebec Ave.
Tacoma, WA 98401
JOB NO: 7833 CAD FILE: WS8940_16_2.dwg

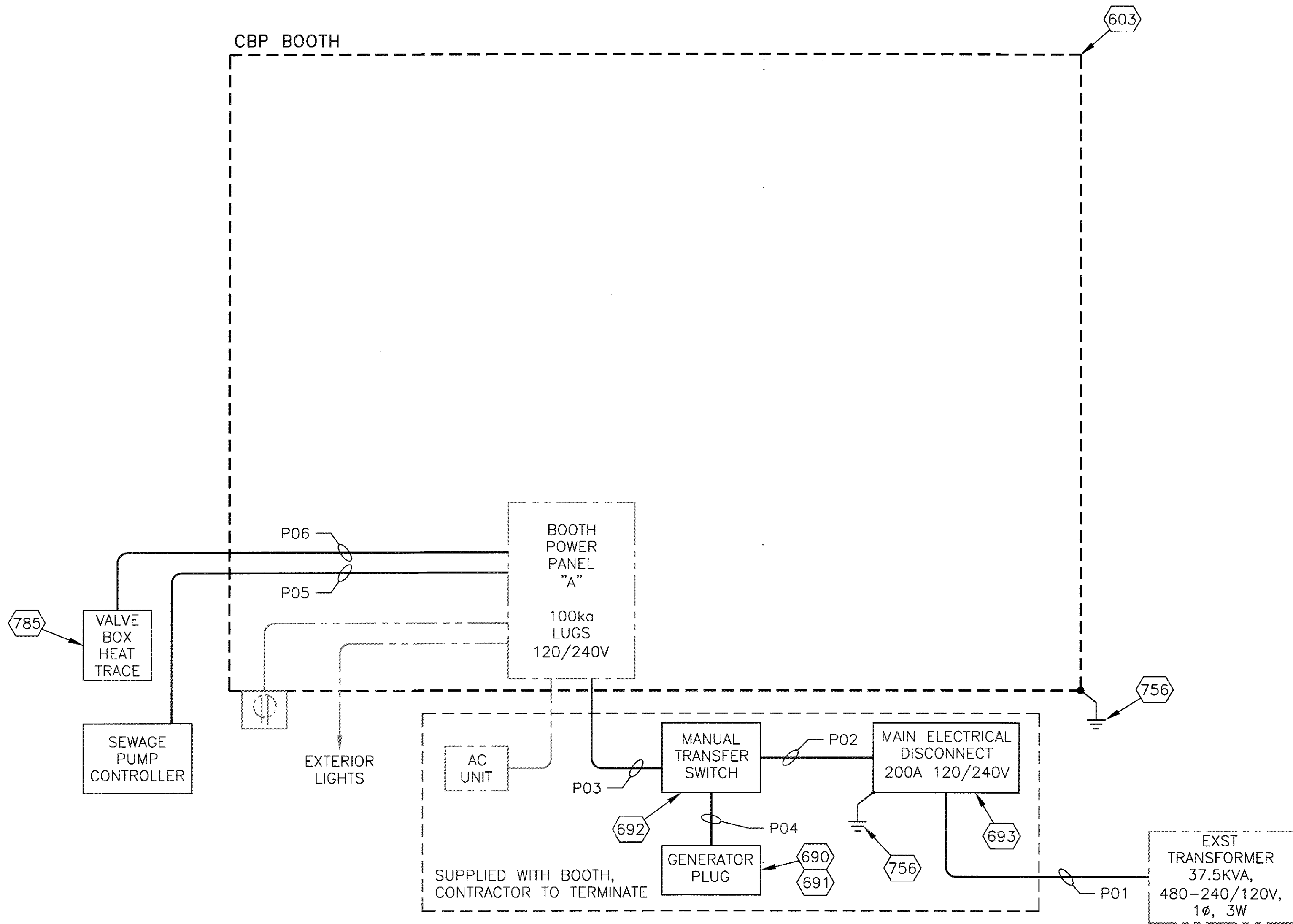
MARK: REVISION: 1 NO CHANGE 2 NO CHANGE

BY: MTD MTD

DATE: 6/3/2016 6/9/16

APPR: PMG PMG

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WIRING LEGEND

- POWER
- COMMUNICATION
- EXST

NOTES:
1.) GROUND SURGE PROTECTION DEVICES TO NEAREST EARTH GROUND VIA #6 AWG WIRE.

RPM17 SH 17 OF 18	RADIATION PORTAL MONITOR PROJECT				APPROVED:		CHECKED BY: PAA 4/29/16		DATE: PAA 4/29/16	
	STRADDLE CARRIER PORTAL (SCP)				PROJECT: 7-13-17		DATE: PAA 4/29/16		DATE: PAA 4/29/16	
BOOTH REPLACEMENT		WIRING SCHEMATIC		SECTION:		DATE: mtdavalle Jun 09, 2016		DATE: mtdavalle Jun 09, 2016		
CON/CONS: 070661		TOWNSHIP:		RANGE:		SECTION:		DATE: mtdavalle Jun 09, 2016		
M. ID: 101056.01		DAT-HRZ:		VERT:		PORT ADDRESS: ONE SITCUM PLAZA		PORT ADDRESS: ONE SITCUM PLAZA		
PHASE: 310 SET		DRAWING SCALE: NONE		DRAWING SCALE: NONE		TACOMA, WA 98401-1837		TACOMA, WA 98401-1837		
DATE: 6/9/16		DATE: 6/9/16		DATE: 6/9/16		DATE: 6/9/16		DATE: 6/9/16		
BY: PMG		BY: PMG		BY: PMG		BY: PMG		BY: PMG		
DATE: 6/9/2016		DATE: 6/9/2016		DATE: 6/9/2016		DATE: 6/9/2016		DATE: 6/9/2016		
REVISION: 1		REVISION: 1		REVISION: 1		REVISION: 1		REVISION: 1		
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CABLE SCHEDULE					
ID	FROM	TO	CABLE TYPE	CABLE LENGTH	REMARKS
P01	EXST TRANSFORMER – BOOTH	MAIN ELECTRICAL DISCONNECT	(3) THWN 2/0 AWG	40'	
P02	MAIN ELECTRICAL DISCONNECT	MANUAL TRANSFER SWITCH	(3) THWN 2/0 AWG + 6 GND	5'	
P03	MANUAL TRANSFER SWITCH	BOOTH POWER PANEL "A"	(3) THWN 2/0 AWG + 6 GND	10'	
P04	MANUAL TRANSFER SWITCH	GENERATOR PLUG	(3) THWN 2/0 AWG + 6 GND	5'	
P05	BOOTH POWER PANEL "A"	SEWAGE PUMP CONTROL BOX	(3) THWN 10 AWG + 10 GND	25'	
P06	BOOTH POWER PANEL "A"	HEAT TRACE IN VALVE BOX	(2) THWN 12 AWG + 12 GND	25'	
P07	SEWAGE PUMP CONTROL BOX	SEWAGE PUMP	BY PUMP MANUFACTURER	25'	

CONDUIT SCHEDULE					
ID	FROM	TO	SIZE	FILL	REMARKS
CC01	NEW BOOTH WIRE GUTTER	BOOTH	2"	SPARE	ROUTE BELOW NEW BOOTH FOUNDATION
PC01	NEW BOOTH WIRE GUTTER	BOOTH	2"	P01	ROUTE BELOW NEW BOOTH FOUNDATION
PC02	BOOTH	PUMP CONTROLLER	1/2"	P05	
PC03	BOOTH	PUMP VALVE HEAT TRACE	1/2"	P06	
PC04	PUMP CONTROL BOX	PUMP STATION	1/2"	P07	

EQUIPMENT SCHEDULE							
ID #	QTY	PART NAME	MANUFACTURER	PART NUMBER	PROVIDED BY	INSTALLED BY	REMARKS
600–BOOTH FURNISHINGS							
603	1	BOOTH 10' X 24' – LEFT HAND	PORTA–KING	BR2410 UL 752–LEVEL 3 (LEFT HAND)	CP	CI	NO SUBSTITUTIONS ALLOWED
690	1	100 AMP GENERATOR PLUG WITH CAP	HUBBELL	HBL3100R6W	CP	CI	
691	1	GENERATOR PLUG BOX AND CAP	HUBBELL	BB1001W + PC100	CP	CI	
692	1	MANUAL TRANSFER SWITCH	CONTRACTOR SPECIFIED		CP	CI	
693	1	MAIN ELECTRICAL DISCONNECT, 200A, 120/240V	CONTRACTOR SPECIFIED		CP	CI	
700–MISC EQUIPMENT							
756	2	GROUNDING ROD	EXST	EXST	EXST	EXST	
785	1	HEAT TRACE			CP	CI	
	**ITEMS NEEDED FOR EACH HEAT TRACE						
	1	3W/FT HEAT TRACE	RAYCHEM	3BTV1–CT			
	1	HEAT TRACE SINGLE ENRTY POWER CONNECTION	RAYCHEM	JBS–100–A			
	1	HEAT TRACE END SEAL	RAYCHEM	E–100–A			

RPM18
SH 18 OF 18

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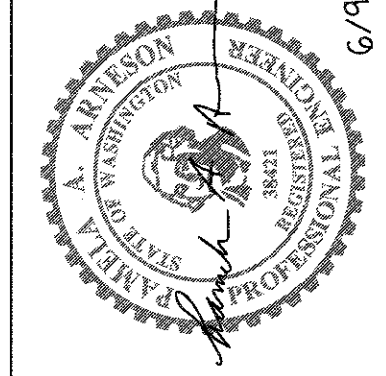
RADIATION PORTAL MONITOR PROJECT
STRADDLE CARRIER PORTAL (SCP)

BOOTH REPLACEMENT
SCHEDULES

TOWNSHIP: RANGE: SECTION: VERT: DATE–HRZ: DAT–HRZ: PARCEL: DRAWING SCALE: NONE

APPROVED:

CHECKED BY: DATE: PAA 4/29/16
DIRECTOR: DATE: PAA 4/29/16
PRINTED BY: mtdavalle Jun 09, 2016
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837



Meier
12 W. Kennewick Ave.
Kennewick, WA 99336
JOB NO: 7833
P: 509.735.1589
F: 509.783.5075
CAD FILE: WSR940_18_2.dwg

Port of Tacoma
P.O. BOX 187 TACOMA, WA 98401-0187

DATE: 6/3/2016
APPR: PMG
BY: MTD
NO CHANGE
CITY COMMENTS