

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION FOR LAND DIVISION JOB NO. E00BH30A HAWAII DISTRICT LAND OFFICE HILO, HAWAII TMK: (3) 2-2-032: 011

SCOPE OF WORK: RENOVATION OF AN EXISTING ONE-STORY BUILDING AND SITE FOR THE DLNR HAWAII DISTRICT LAND OFFICE (HDLO).

LIST OF CONSULTANTS

ARCHITECT

ERSKINE ARCHITECTS, INC 540 LAGOON DRIVE, SUITE 4 HONOLULU, HAWAII 96819

<u>CIVIL ENGINEER</u>

THE LIMTIACO CONSULTING GROUP 1622 KANAKANUI STREET HONOLULU, HAWAII 96817

MECHANICAL ENGINEER

MECHANICAL ENTERPRISES, INC 501 SUMNER ST, SUITE 503 HONOLULU, HAWAII 96817

ENVIRONMENTAL

ENVIROSERVICES & TRAINING CENTER, LLC 505 WARD AVE, SUITE 202 HONOLULU, HAWAII 96814

STRUCTURAL ENGINEER

IWAMOTO ENGINEERING CONSULTANTS, INC 98-029 HEKAHA STREET, SUITE 37 AIEA. HAWAII 96701

LANDSCAPE ARCHITECT

KTL DESIGN, LLC 200 KOHOLA STREET HILO. HAWAII 96720

ELECTRICAL ENGINEER

ALBERT CHONG ASSOCIATES, INC 1117 kapahulu ave HONOLULU, HAWAII 96816

<u>SURVEYOR</u>

IMATA & ASSOCIATES, INC 171 kapiolani street HILO, HAWAII 96720

SPECIAL INSPECTION:

- A. CONTRACTOR SHALL PAY FOR AND BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE BUILDING CODE OF THE COUNTY OF HAWAII, IS MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE STATE AND PAY FOR RE-INSPECTION.
- B. THE FOLLOWING STRUCTURAL WORK REQUIRES SPECIAL INSPECTION: A. MASONRY CONSTRUCTION B. DRILLED AND EPOXIED THREADED RODS IN CONCRETE OR MASONRY
- C. SPECIAL INSPECTION IS NOT REQUIRED FOR FOUNDATION CONCRETE AND REINFORCING STEEL. FOUNDATIONS WERE DESIGNED WITH F'C = 2,500 PSI.
- D. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE STATE, LICENSED ENGINEER OR ARCHITECT OF RECORD, AND OTHER STATE-DESIGNATED PERSONS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE STATE AND LICENSED ENGINEER OR ARCHITECT OF RECORD, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE. PRIOR TO THE FINAL INSPECTION REQUIRED UNDER THE BUILDING CODE SECTION 109.3.10 THE LICENSED ENGINEER OR ARCHITECT OF RECORD SHALL SUBMIT A WRITTEN STATEMENT VERIFYING RECEIPT OF THE FINAL INSPECTION REPORTS AND DOCUMENTING THAT THERE ARE NO UNRESOLVED CODE REQUIREMENTS THAT CREATE SIGNIFICANT PUBLIC SAFETY DEFICIENCIES.
- CONTRACTOR SHALL SUBMIT A STATEMENT CONTAINING AN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED ON THE DRAWINGS AND THAT THE CONSTRUCTION REQUIRING SPECIAL INSPECTIONS WILL BE MADE ACCESSIBLE FOR INSPECTIONS.
- F. SPECIAL INSPECTION COSTS SHALL BE BORNE BY THE CONTRACTOR.



APPROVED:

DATE: <u>11/25/2022</u>

Russell Tsuji

RUSSELL Y. TSUJI ADMINISTRATOR LAND DIVISION DEPARTMENT OF LAND AND NATURAL RESOURCES

APPROVED:

DATE: 11/28/2022

CHANG. P.E CHIEF ENGINEER ENGINEERING DIVISION DEPARTMENT OF LAND AND NATURAL RESOURCES

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ION 9.	SYM.	DESCRIPTION	SHT./OF	DATE	E A	PPROVED	T-001
		JOB NO. E00BH30A	SHEET NO	D. 1	OF	77	SHEETS

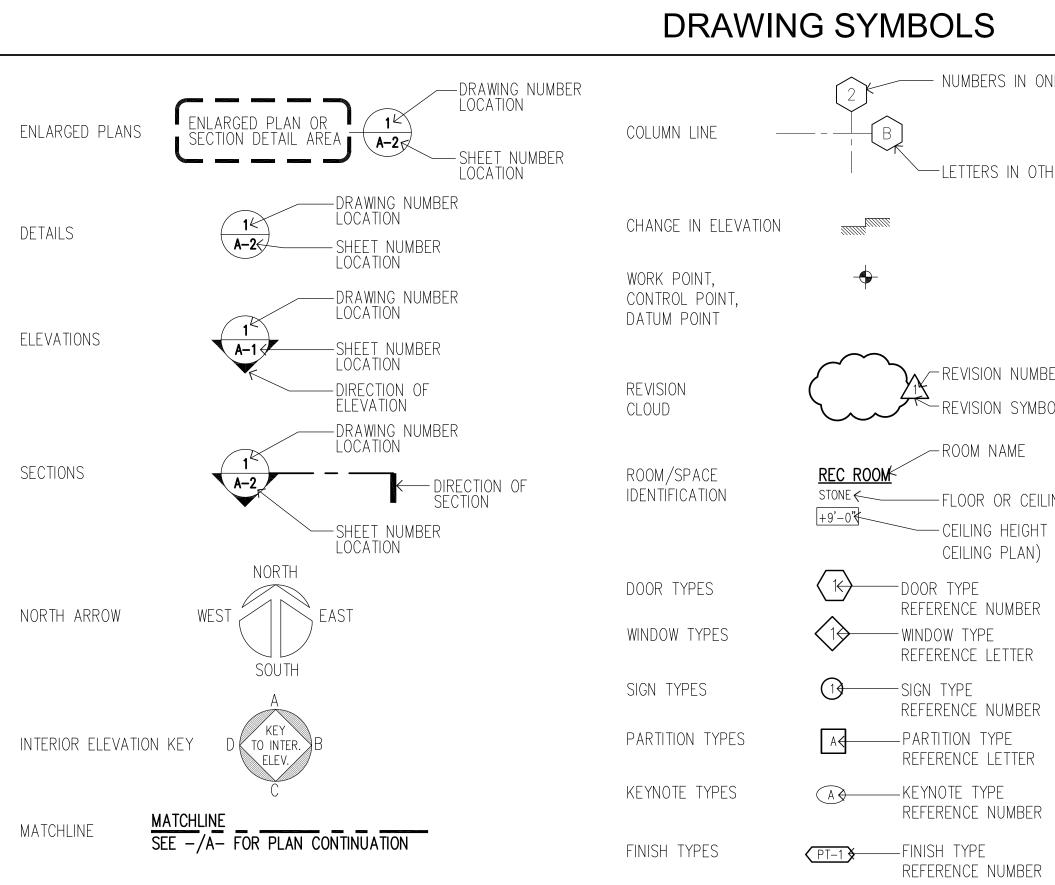
GENERAL NOTES	PROJECT DATA	INDEX TO DRAWINGS				
ALL WARK SHAWN IS NEW LINESS ATHERWISE NATER	PROJECT SITE INFORMATION:	SHEET NO. DRAWING NO. SHEET DESCRIPTION MECHANICAL				
ALL WORK SHOWLIN LAW PROVIDENT CONTROL WARK, STAT, AND FEDERAL LAWS, BUILDING CODES, THER ADDIDGE, ADDIDAUXS, AND ARENDENTS IN THE CONSTRUCTION OF THIS FRANCE. IN CONTROL, OR SHALL BE DESIDUCIBLE FOR CON-GRAVER WITH THE AND CALL PROVIDED GO CHARTER SH, WICES OR SHALL BE DESIDUCIBLE FOR CON-GRAVERE WITH THE AND CALL PROVIDED GO CHARTER SH, WICES OR SHALL BE DESIDUCIBLE FOR CON-GRAVERE WITH THE AND CALL PROVIDED GO CHARTER SH, WICES OR SHALL BE DESIDUCIBLE FOR CON-GRAVERE WITH THE AND CALL PROVIDED GO CHARTER SH, WICES OF THE STATE DUE NING COST. WORD THE CHARTER SHALL ADDID TO THE ORDARIE CONFORMS OF BILD THE STATE DUE NING COST. WORD TO THE STATE OF VIENT WID CHECK ALL DIANS ONS AND DETAILS SHOULD IN THE DRAWNS FROM TO THE STATE OF CONFIRMEDIAN. CONTRACTOR SHALL BE AVARE OF ALL ENSITIVE CONTROLS SHALL ADDID. TO THE WORK MID CHECK ALL DIANS ONS AND DETAILS SHOULD IN THE DRAWNS FROM TO THE STATE OF CONFIRMEDIANCE CONFORMEDIANS IN THE FILE. AND ADDID. TO THE WORK. MID CHECK SHALL BE AVARE OF ALL ENSITIVE CONTROLS TO THE STATE OF CONTROL ON CONTRACTOR SHALL BE AVARE OF ALL ENSITIVE CONTROLS TO THE STATE THE DRAWNS WIDD CHECK ALL PROVIDES IN THE FILE. AND ADDID. THE CONTRACTOR SHALL RELEASED TO THE TO THE CONTROL ON STORE TAXAST. TO THE WORK. AND CHECK ALL PROVIDES TO A MY/ALL CORRECTIVE WORK FROM THE TO ADVACED THE CONTROL TAXAST. TO THE STATE DESIDES AND CHECK AND/ALL STATE OF THE CONTROL TO THE TO THE CONTROL TAXAST. TO THE STATE DESIDES AND CHECK SHALL PERFORM AND CHEM. AND AND ADVACED ADVACED THE CONTRACTOR SHALL RELEASED TO THE CORRECTIVE WARK REQUIRED TAXAST. TO THE STATE ADVACED THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTIVE ON AND ADDITIES AND ADVACED ADVACED THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTIVE ADVACED SHALL BE THOUGHT AND ADVACED ADVACED ADVACED THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTIVE ADVACED AND ADVACED ADVACED ADVACED THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OF ANT THE ADVACED ADVACED ADVACED THE CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OF AND THE STATE THE D	OWNERSTATE OF HAWAIPROPERTY OWNER: HUGHLIM ADDUCSS: TAX MAR REY: IDT ARTA:STATE OF HAWAIPROPERTY OWNER: HAX MAR REY: IDT ARTA:B0 KALAN KOA STREET, HILD, HAWAI B0720TAX MAR REY: IDT ARTA:J50 doresPAD USE NFORMATION: ZONNOS: SDF A FRAR VARD: HEGHLIMMMI - 20 LIMITED INDUSTRIAL DISTRICT HEAR VARD: NONEPROPERTY OWNER: SDF A FRAR VARD: HEGHLIMMMI - 20 LIMITED INDUSTRIAL DISTRICT HEAR VARD: NONEPROPERTY OWNER: SDF A FRAR VARD: HEGHLIMMMI - 20 LIMITED INDUSTRIAL DISTRICT HEAR VARD: HEAR VARD: HEAR VARD: HEAR VARD: HEAR VARD: HEAR VARD:PROPERTY OWNER: SDF A FRAR VARD: HEAR VARD: SDF A FRAR VARD: HEAR VARD: SDF A FRAR VARD: HEAR VARD: SDF A FRAR VARD: SDF A STATE FRAN VARD: SDF A STATE FRAN VARD: SDF A TANDA VARD FRAN VARD VARD VARD VARD VARD VARD VARD VARD	Image: No. 100 Image:				
 UPON COMPLETION OF CONSTRUCTION THE ENTIRE JOB SITE SHALL BE CLEANED OF ALL RUBBISH AND DEBRIS. AREAS FOR CONTRACT ZONE LIMITS, MATERIALS STORAGE, SCHEDULING OF WORK, TRASH DISPOSAL, WORKMEN'S PARKING, ETC., SHALL BE COORDINATED WITH THE STATE. COORDINATE ALL WORK, SCHEDULING, STAGING, AND ADMINISTRATIVE REQUIREMENTS WITH THE STATE. ALL WORK SHALL CONFORM WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. TEMPORARY PASSAGEWAYS SHALL BE ACCESSIBLE PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2, SECTION 201.3 AND 206.1. NO BLASTING SHALL BE ALLOWED ON THIS PROJECT. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM APPROPRIATE GOVERNMENT AGENCIES. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY UTILITIES SUCH AS ELECTRICITY, WATER, ETC. REQUIRED FOR CONSTRUCTION OPERATIONS AND ALL SUCH COSTS SHALL BE BORNE BY THE CONTRACTOR. 	PERCENTAGE OF LOT COVERAGE: PARKING AND LOADING LUO REQUIREMENTS: SHARED USE AREA (SF) FACTOR NO. OF STALLS COMMERCIAL USE 4,017 300 13 TOTAL REQUIRED: 13 13 STALLS REQ'D. PARKING STALLS (OFF-STREET): NO. OF STALLS OFF-STREET STALLS 13 ACCESSIBLE STALLS 2 TOTAL PARKING PROVIDED: 15	REVISION SYM. DESCRIPTION SHT./OF DATE NO. SYM. DESCRIPTION SHT./OF DATE LICENSE LICENSE FOFESSIONAL IT RAWAII DEPARTMENT OF LAND AND NATURAL RESOUL No. 10192 Y HAWAII DISTRICT LAND OFFICE HILO, HAWAII No. 10192 Y HAWAII DISTRICT LAND OFFICE No. 10192 Y HAWAII DISTRICT DATA, & INDEX DESIGNED: KK SUBMITTED: DESIGNED: KK SUBMITTED: JEARNE JATE: NOVEMBER 2022 CHECKED: FE				

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED				
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SUPERVISION	AND CONSTR	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF	APPROVED:	Carty Chang			WING NO.				
COMMERCE	AND CONSU _ ENGINEERS	ARCHITECTS, SURVEYORS	CHIEF ENGINEER	E-signed 2022-11-28 0 carty.s.chang@hawaii State of Hawaii		2 T-	002				
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ABBREV/IATIONS

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ALT AP APPROX ARCH ASPH BCS BD BLW BVL	ALTERNATE ACCESS PANEL APPROXIMATE ARCHITECT(URAL) ASPHALT BABY CHANGING STATION BOARD BELOW BEVELED	DIAG DIM DISP DIV DOCARE AND DN DP DR	DIAGONAL DIAGONAL DIMENSION DISPLAY DIVISION OF CONSERVA RESOURCES ENFORCEM DOWN DAMPPROOFING DOOR	GALV GB GL GR	FACE OF STUDS FACE OF WALL FIREPROOF FRAME FOOT/FEET GALVANIZED GRAB BAR GLASS GRADE	MECH MEMB MET LKRS MFR MH MIN MISC MLDG MEZZ MGR	MECHANICAL MEMBRANE METAL METAL LOCKERS MANUFACTURER MOUNTING HEIGHT MINIMUM MISCELLANEOUS MOLDING MEZZANINE MANAGER	PLBG PL PNL POC POL PR PREFAB PRG FOOTAGE	PLUMBING PROPERTY LINE PANEL POINT OF CONNECTION POLISHED PAIR PREFABRICATED PROGRAMMABLE SQUARE	SIM SJ SLNT SOG SL SP SQ SST STC CLASS	SIMILAR SEISMIC JOINT SEALANT SLAB ON GRADE SLOPE OR SLOPED DIVISION OF STATE PARKS SQUARE STAINLESS STEEL SOUND TRANSMISSION
BIT BKS BL BLDG BM BOT BRG BS BTW C/C	BITUMINOUS BACKSPLASH BUILDING LINE BUILDING BEAM BOTTOM BEARING BOTH SIDES BETWEEN CENTER TO CENTER	DS DTL DRWG E EA EF EFG ENG EG	DOWNSPOUT DETAIL DRAWING EAST EACH EXHAUST FAN ENTRANCE FOOT GRILL ENGINEERING DIVISION EXISTING GRADE	HNDRL HORIZ	GROSS SQARE FOOTAGE GYPSUM WALL BOARD GYPSUM HANDICAPPED HEAD HARDWARE HARDWOOD HOLLOW METAL HANDRAIL HORIZONTAL	MLWK MM MNT MO MS MR MTG MULL N	MILL WORK MILLIMETERS MOUNT/MOUNTING MASONRY OPENING METAL STUD METAL RAILING MEETING MULLION NORTH	PROJ PT PNT PTD PTN PVMT QTY R RAD	PROJECT POINT PAINT PAPER TOWEL DISPENSER PARTITION PAVEMENT QUANTITY RISER RADIUS	STAG STD STL STOR STRUCT SUSP SYS T TRD T&B	STAGGERED STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYSTEM TRANSFORMER TREAD TOP AND BOTTOM
CAB CCC CENTER CIP CJ CJT CLG CLR CMU COL COMB CONC CONT	CABINET COMMUNITY CONFERENCE CAST IN PLACE CONSTRUCTION JOINT CONTROL JOINT CEILING CLEAR CONCRETE MASONRY UNIT COLUMN COMBINATION CONCRETE CONTINOUS	EGS EJ ELEC ELEV ENCL EQ EQPM EWS EXH EXP EXPS EXST EXT EXT	EXPOSED GRID SYSTEM EXPANSION JOINT ELECTRICAL ELEVATION ENCLOSED EQUAL EQUIPMENT EYE WASH STATION EXHAUST EXPOSED EXPANSION EXISTING EXTERIOR EXTERIOR EXTRUDED	HP HR HGT HWH IAW ID IF IG IN INSUL INT ISO	HIGH POINT HOUR HEIGHT HOT WATER HEATER IN ACCORDANCE WITH INSIDE DIAMETER INSIDE FACE INSULATED GLASS INCHES INSULATION INTERIOR ISOMETRIC	N/A N/R NIC NOM NRC COEFFICIENT NSF NTE NTS O/O OA	NOT APPLICABLE NON-RATED NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION NET SQUARE FOOTAGE NOT TRUE ELEVATION NOT TO SCALE OUT TO OUT OVERALL	RCP RD RDL REC RECT REINF REMV REQ'D REQMT(S) REV RH RM RO	REFLECTED CEILING PLAN ROOF DRAIN ROOF DRAIN LEADER RECESSED RECTANGULAR REINFORCING REMOVABLE REQUIRED REQUIREMEN(S) REVISION/REVISED RIGHT HAND ROOM ROUGH OPENING	TEMP TEX THK THRESH TKB TLT TOC TOE TOF TOF TOM TOP TOS TOW	TEMPERED TEXTURED THICK THRESHOLD TACKBOARD TOILET TOP OF CONCRETE TOP OF EAVE TOP OF FOOTING TOP OF MASONRY TOP OF PLATE TOP OF STEEL TOP OF WALL
CONX CONST CORR COUNS CPT	CONNECTION CONSTRUCTION CORRIDOR COUNSELOR CARPET	FAB FCO FD	FABRIC FLOOR CLEAN OUT FLOOR DRAIN	JAN JT L DRAWIN	JANITOR JOINT LEFT NG SYMBOLS	OC OCC OD OF OFOI	ON CENTER OCCUPANT OVERFLOW DRAIN OUTSIDE FACE OWNER FURNISHED OWN	ROD ROOF'G RT RV NER	ROOF OVERFLOW DRAIN ROOFING RIGHT RELIEF VENT	TP TPD TR TRTD TS TWF TYP	TOILET PARTITION TOILET PAPER DISPENSER TRASH RECEPTACLE TREATED TUBE STEEL OR THIN SET THROUGH-WALL FLASHING TYPICAL
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DETAILS	14 A-24	-DRAWING NUMB LOCATION -SHEET NUMBER LOCATION -DRAWING NUMB LOCATION	BER R	CHANGE IN ELEVATION WORK POINT, CONTROL POINT,			[] S.	ELCO METER & MAIN DIS AFETY DISCONNECT SWIT LECTRICAL PANELBOARD		VCT VENT VERT VEST VTR W	VINYL COMPOSITION TILE VENTILATION VERTICAL VESTIBULE VENT THROUGH ROOF WEST
ELEVATION		-SHEET NUMBER LOCATION -DIRECTION OF ELEVATION -DRAWING NUMB LOCATION		DATUM POINT REVISION CLOUD	REVISION N REVISION S	YMBOL	HBŦ H	HERMOSTAT OSE BIB RE EXTINGUISHER		W/ W/O WO WC WD WDW	WITH WITHIOUT WHERE OCCURS WATER CLOSET WOOD WINDOW
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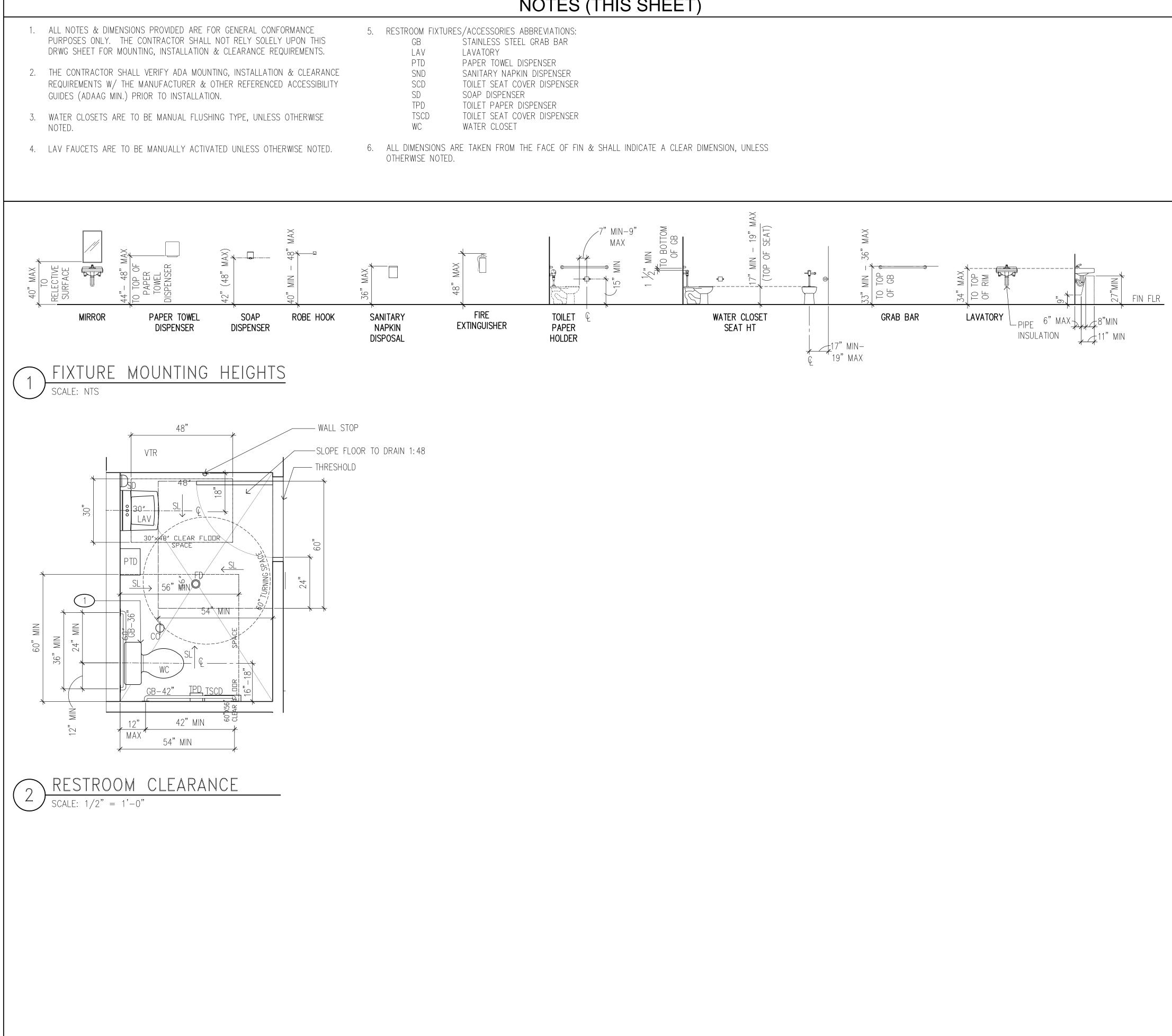


S IN ONE DIRECTION	ç	LIGHT POLE WITH LUMINAIRE
	ф	FLOOR OUTLET W/DATA
IN OTHER DIRECTION		HELCO METER & MAIN DISCONNECT SWITCH
	Ţ	SAFETY DISCONNECT SWITCH
		ELECTRICAL PANELBOARD
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NUMBER	HBŦ	HOSE BIB
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	REVISED STATUTES		<u>28 </u> & HA	WAIʻI	
COMMERCIAL	BUILDING ENERGY E	FFICIENCY STAN	IDARDS		
SUBSTANTIALLY CONFC PERTAINING TO THE COMME		ENERGY EFFICIEN	NCY STAN	NDARDS	<u>TS</u>
COMPLIANCE METHOD	ided. Mandatory & Prescri ided. Mandatory & Total E 90.1-2013. Mandatory & F 90.1-2013. Mandatory & E	ptive Building Performance Prescriptive	e		
INFORMATION IN CONSTRUC Roof insulation R-value Roof insulation type an Roof membrane solar r Wall insulation R-value Wall insulation type and Window SHGC Window U-factor Skylight SHGC Skylight U-factor	e d location eflectance and thermal en	nittance			
NOTES					
EXISTING EXTERIOR WALL TO R	EMAIN IS GROUTED CON	CRETE MASONRY U	NIT (CMU)).	
Signature:	Date:	<u>Sta</u>		e & Two-Pa	<u>rt</u>
Name: FRED K. ERS	KINE		<u>State</u>	<u>ment</u>	
Title :					
License No. :					
	DISTRICT LAND OFFICE				
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* No. 101 * No. 101	92	HILO, I	HAWAI'I IG SYMB(OLS, PLOT	PLAN
THIS LICENSE EXPIRES AF	PRIL 30, 2024 DESIGNED: KK		SUBMITTED): A K	×.
hel K. E	DRAWN: KA, TY CHECKED: FE		DATE: FEBF SCALE: AS		An 1857
THIS WORK WAS PREPARED BY SUPERVISION AND CONSTRUCTIO WILL BE UNDER MY OBSERVATIO CONSTRUCTION AS DEFINED IN C THE HAWAII ADMINISTRATIVE RUL COMMERCE AND CONSUMER PROFESSIONAL ENGINEERS, ARCI AND LANDSCAPE ARCHITECTS).	ME OR UNDER MY N OF THIS PROJECT N. (OBSERVATION OF HAPTER 16–115 OF ES, DEPARTMENT OF AFFAIRS ENTITLED	Carty Chang E-signed 2022-11-28 carty.s.chang@hawa	04:17PM HST	DRA	awing no. -003

JOB NO. E00BH30A

CHIEF ENGINEER State of Hawaii SHEET NO. 3 OF 77 SHEETS



NOTES (THIS SHEET)

KEYNOTE NO.	KE	YNOTES	(THIS S	SHE	ET)	
	FLUSH CONTROL SHAL	L BE ACCESSIBLE P	er adaag 604	.5.2.		
REVISION NO.	SYM.	DESCRIPTION	STATE OF		DATE	APPROVED
	K. ERS	DEPARTMENT		ID NATU	RAL RESO	URCES
FRE	LICENSED PROFESSIONAL ARCHITECT	HA			OFFICE	
*	No. 10192 *	FI	HILO, F	HAWAI'I TING HE	IGHTS	
	CENSE EXPIRES APRIL 30, 2024	DESIGNED: KK		SUBMITTEI		
Fuel	C.K.E.	DESIGNED: KK DRAWN: KA, TW, WL CHECKED: FE			RUARY 2021	×.
THIS WORK W SUPERVISION WILL BE UNDE CONSTRUCTION THE HAWAII AI COMMERCE	AS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT R MY OBSERVATION. (OBSERVATION OF AS DEFINED IN CHAPTER 16-115 OF MINISTRATIVE RULES, DEPARTMENT OF NND CONSUMER AFFAIRS ENTITLED ENGINEERS, ARCHITECTS, SURVEYORS PE ARCHITECTS).	APPROVED: C	Carty Chang -signed 2022-11-28	04:17PM HS1	DR	
	DE NO. E00BH30A		arty.s.chang@hawa itate of Hawaii thef Engineer 4	ii.gov	2	-004

	<u>CC</u>	NSTRUCTION NOTES	<u>NC</u>	DTES FOR WORK W
	1.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1984 AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1986, AS APPLICABLE TO THE COUNTY OF HAWAII DEPT. OF PUBLIC WORKS, UNLESS INDICATED OTHERWISE IN THE PLANS, THESE NOTES, OR THE SPECIAL PROVISIONS.	1.	ALL WORK SHALL BE DONE OF PUBLIC WORKS "STAND DATED SEPTEMBER 1986, DATED SEPTEMBER 1984.
	2.	CONTRACTOR SHALL SECURE THE SERVICES OF A HAWAII LICENSED SURVEYOR TO PROVIDE CONSTRUCTION STAKEOUT.	2.	THE CONTRACTOR SHALL V SHOWN ON THE PLAN OR REPLACEMENT OF SAME IN PRACTICES. THE CONTRACT
	3.	VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STATE FOR DIRECTION.	3.	COMPANIES. THE CONTRACTOR SHALL F CONFORMANCE WITH THE (
	4.	UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM THEIR SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF UTILITIES AND STRUCTURES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERITY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.	4.	CONTROL DEVICES FOR STO OF PUBLIC WORKS (DPW). THE CONTRACTOR SHALL N THE COMMENCEMENT OF A SECURE APPROVAL OF THIS
	5.	THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE SAME IN THE EVENT OF DAMAGES DUE TO THEIR CONSTRUCTION	5.	RIGHT-OF-WAY. THE PROPOSED UTILITY LIN CONDUCTING OF THE FIELD
		PRACTICES. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH RESPECTIVE UTILITY COMPANIES AS APPROPRIATE.	6.	THE FIELD ADJUSTMENTS S WORKS PRIOR TO THE COM
	6.	THE GENERAL CONTRACTOR OF THE PROJECT SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL," AS WELL AS HAWAII COUNTY CODE CHAPTER 10 "EROSION AND SEDIMENT	7.	THE REQUIRED PERMIT, UN COUNTY CODE, SHALL BE CONTRACTOR FOR WORK W
	7.	CONTROL", AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION OR BETTER, ALL	8.	NO WORK WITHIN THE COU AND HOLIDAYS ANYTIME W WORKS. WORK ON NORMAL 7:00 A.M. TO 3:30 P.M.
		IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION AT HIS/HER OWN EXPENSE, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, GUTTERS, DRIVEWAYS, SIDEWALKS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL.	9.	THE CONTRACTOR SHALL F ALL TIMES. TWO (2) LANES P.M. AND 7:00 A.M.
	8.	NO TRENCHING SHALL BE LEFT OPEN FOR MORE THAN FIVE (5) WORKING DAYS, DURING WHICH TIME THE TRENCH SHALL BE PROPERLY CORDONED OFF AND SIGNAGE PROVIDED.	10.	THE EXISTING PAVEMENT S TRENCHING WORK.
		CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS. ALL EXISTING UTILITIES TO REMAIN IN USE, WHETHER OR NOT SHOWN ON THE PLANS,	11.	ANY PAVEMENT OUTSIDE T CONSTRUCTION OPERATION AS DIRECTED BY THE DPW
>		SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION UNLESS SPECIFIED ON THE PLANS TO BE ABANDONED. ANY DAMAGES TO EXISTING UTILITIES SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.	12.	A TEMPORARY COLD MIX F THE BACKFILLING OPERATIO PERMANENT PATCH IS AU
7 0212 L	11.	ESTABLISH FINISH ELEVATIONS FOR ALL UTILITY STRUCTURES, FRAMES AND COVERS WITHIN ACCESSIBLE ROUTES SUCH THAT THEY WILL BE FLUSH WITH THE SURFACE OF THE ADJACENT ACCESSIBLE ROUTE WHEN WORK IS COMPLETED. THE FINAL FINISH ELEVATION	13.	NO MATERIAL, EXCEPT THE THAN SIX (6) FEET FROM
		OF ANY SUCH ITEM SHALL NOT EXCEED $\frac{1}{4}$ " ABOVE OR BELOW THE ADJACENT FINISH ELEVATION OF THE ACCESSIBLE ROUTE AT ANY POINT. VARIATIONS IN EXCESS OF THIS AMOUNT WILL BE CONSIDERED DEFECTIVE WORK AND SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE STATE.	14.	NO CONSTRUCTION EQUIPM COUNTY ROAD RIGHT-OF- THE NORMAL MOVEMENT A ACTUAL WORKING HOURS.
۱ ۵	12.	CONFINED SPACE	15.	EXCEPT DURING THE ACTU
NNLIES.OM		FOR ENTRY BY COUNTY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:		CONSTRUCTION ACTIVITY, S COVERED OR LAID DOWN. PUBLIC SHALL BE MAINTAI
א א א א א א א א א א א א א א א א א א א		I. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:	16.	ANY PAVEMENTS MARKING THE CONTRACT ZONE LIMI BE REPAINTED OR RECONS WORKS.
5 ≥		a. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL. b. LIFELINE AND ASSOCIATED CLIPS.	17.	NO TRENCHING SHALL BE
		 c. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT. d. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT. e. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION). f. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE. 	18.	WHEN WORK INTERFERES V SAFE PASSAGE OF PEDES WORK AREA.
		 GONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20-FEET AWAY). PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR. 	19.	THE CONTRACTOR SHALL M PUBLIC WORKS, THE AREA ANY REPAIRS TO THE PAV
SKIDE VI4		II. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.		INSTALLATION WORK, FOR INSPECTION. THE CONTRAC DIRECTED BY THE DEPART
Ĩ		III. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).		
1 NVETSMARENI, PROJECTSNAC	13.	FOR PROJECT BENCHMARKS, SEE SHEET C-100.		CHAEOLOGICAL N IN THE EVENT THAT A PRE PROPERTY, OR HUMAN REM CEREMONIAL OBJECTS, FUN CONSTRUCTION, THE CONTE NOTIFY THE STATE'S CONS DIVISION (SHPD), THE APP APPROPRIATE POLICE DEP PROTECT THE AREA OF THE SHALL COOPERATE WITH T
VIU70				RESOURCES IN THE INVEST

WITHIN COUNTY RIGHT-OF-WAY

E IN ACCORDANCE WITH THE COUNTY OF HAWAII. DEPARTMENT DARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION"

VERIFY THE LOCATION OF ALL EXISTING UTILITIES WHETHER NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR OR THE EVENT OF DAMAGES DUE TO THIS CONSTRUCTION TOR SHALL COORDINATE HIS WORK WITH RESPECTIVE UTILITY

PROVIDE AND INSTALL ALL TRAFFIC CONTROL DEVICES IN CURRENT VERSION OF THE "MANUAL OF UNIFORM TRAFFIC REETS AND HIGHWAYS", AND AS DIRECTED BY THE DEPARTMENT

NOTIFY THE DEPARTMENT OF PUBLIC WORKS 48 HOURS BEFORE ANY UTILITY LINE WORK TO SCHEDULE A FIELD REVIEW AND E PROPOSED UTILITY LINE LOCATION WITHIN THE COUNTY

NE SHALL BE LAID OUT IN THE FIELD PRIOR TO THE REVIEW BY THE DEPARTMENT OF PUBLIC WORKS.

- SHALL BE MADE AS DIRECTED BY THE DEPARTMENT OF PUBLIC MMENCEMENT OF ANY UTILITY LINE WORK.
- NDER CHAPTER 22, ARTICLE 4, DIVISION 1 OF THE HAWAII OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS BY THE WITHIN THE COUNTY RIGHT-OF-WAY.

JNTY RIGHT-OF-WAY SHALL BE DONE ON SATURDAYS, SUNDAYS WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKING DAYS SHALL BE LIMITED BETWEEN THE HOURS OF

PROVIDE AT LEAST ONE (1) LANE FOR TRAFFIC MOVEMENT AT S FOR TRAFFIC MOVEMENT SHALL BE PROVIDED BETWEEN 3:30

SHALL BE SAW-CUT BEFORE THE COMMENCEMENT OF

THE CONTRACT ZONE LIMITS DAMAGED AS A RESULT OF NS SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER

PATCH SHALL BE APPLIED IMMEDIATELY UPON COMPLETION OF ION AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A THORIZED BY THE DEPARTMENT OF PUBLIC WORKS.

TRENCH EXCAVATED MATERIAL SHALL BE STOCKPILED CLOSER THE EXISTING EDGE OF PAVEMENT.

MENT SHALL BE PARKED OR ANY MATERIALS STORED WITHIN THE WAY IN SUCH A MANNER THAT THE EQUIPMENT WILL OBSTRUCT AND SIGHT DISTANCE OF THE DRIVING MOTORIST, EXCEPT DURING

JAL WORKING HOURS, ALL SIGNS THAT DO NOT PERTAIN TO THE SUCH AS "MEN WORKING" AND "FLAGMAN AHEAD SHALL BE HOWEVER, ALL SIGNS NECESSARY FOR THE SAFETY OF THE INED.

S, STRUCTURES, AND APPURTENANCES (WITHIN OR OUTSIDE OF TS) DAMAGED AND/OR WORN AWAY UNDER THE PERMIT SHALL STRUCTED AS DIRECTED BY THE DEPARTMENT OF PUBLIC

LEFT OPEN FOR MORE THAN FIVE (5) WORKING DAYS.

WITH A SIDEWALK, THE CONTRACTOR SHALL PROVIDE FOR THE TRIANS INCLUDING THE DISABLED AROUND OR THROUGH THE

MAINTAIN, TO THE SATISFACTION OF THE DEPARTMENT OF WORKED WITHIN THE GOVERNMENT RIGHT-OF-WAY INCLUDING VEMENT AND SHOULDER DAMAGED AS A RESULT OF THE A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL CTOR SHALL UNDERTAKE REPAIRS EXPEDITIOUSLY, WHENEVER IMENT OF PUBLIC WORKS DURING THE MAINTENANCE PERIOD

<u> 10TE</u>

EVIOUSLY UNKNOWN ARCHAEOLOGICAL FEATURE, HISTORIC MAINS (INCLUDING HUMAN SKELETAL REMAINS, CREMATIONS, NERARY OBJECTS, BURIAL GOODS, ETC.) ARE EXPOSED BY TRACTOR SHALL CEASE WORK IN THE VICINITY IMMEDIATELY AND STRUCTION MANAGER, STATE OF HAWAII HISTORIC PRESERVATION PROPRIATE MEDICAL EXAMINER OR CORONER. AND THE ARTMENT, OF THE DISCOVERY. THE CONTRACTOR SHALL HE REMAINS WITH AN APPROPRIATE MATERIAL. THE CONTRACTOR THE POLICE OR DEPARTMENT OF LAND AND NATURAL TIGATION, RECORDING, PRESERVATION, AND SALVAGE.

STANDARD TRAFFIC NOTES (WITHIN COUNTY ROW)

- ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST AMENDED EDITIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". APPLICABLE SECTIONS OF PART 5 OF THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER, 1984, AND THE "2005 HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", UNLESS OTHERWISE INDICATED ON THE PLANS, SPECIFICATIONS, OR STANDARD TRAFFIC NOTES.
- 2. THE CONTRACTOR SHALL INSTALL PERMANENT OR TEMPORARY PAVEMENT MARKERS, STRIPING AND MARKINGS AS REQUIRED BY SECTION(S) 629 AND 755.05 OF THE "2005 HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND AS AMENDED. TO ENSURE PROPER LANE WIDTHS AND THE SAFE FLOW OF TRAFFIC, TEMPORARY STRIPING SHALL BE INSTALLED AS CLOSELY AS POSSIBLE TO THE FINAL STRIPING PLAN. BUT NOT IN A MANNER THAT WOULD OBSTRUCT PERMANENT STRIPING LAYOUT OPERATIONS.

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAFFIC SIGNS AND MARKINGS FOR ALL PROJECT-RELATED TEMPORARY TRAFFIC CONTROL PLANS. THE CONTRACTOR SHALL COORDINATE AND HIRE SPECIAL DUTY POLICE OFFICER(S) AS NEEDED TO PROVIDE TRAFFIC CONTROL WHILE WORKING WITHIN THE COUNTY RIGHT OF WAY.

- 3. THE CONTRACTOR SHALL INFORM THE TRAFFIC DIVISION AT LEAST SIX (6) WORKING DAYS PRIOR TO ANY WORK ON PAVEMENT MARKINGS OPERATIONS AND/OR SIGN INSTALLATIONS TO SCHEDULE A REVIEW AND APPROVAL OF THE STRIPING LAYOUT AND/OR SIGNING PLANS.
- 4. ALL PAVEMENT STRIPING SHALL BE WITH ALKYD BASED REFLECTIVE THERMOPLASTIC COMPOUND PAVEMENT MARKING AS SPECIFIED IN SECTION(S) 629 AND 755.05 OF THE HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION, AND AS AMENDED, ON ALL ROADWAYS. THE CONTRACTOR SHALL SUBMIT CERTIFICATE OF COMPLIANCE CERTIFYING THAT THE THERMOPLASTIC MATERIALS TO BE USED MEET THE CURRENT AASHTO M-247 (FOR GLASS BEADS) AND AASHTO M-249 (FOR STRIPING) SPECIFICATIONS.
- 5. REFLECTORIZED RAISED PAVEMENT MARKERS (RPM'S) SHALL BE REGULAR-SIZED MARKERS WITH APPROXIMATE DIMENSIONS OF 4"x4"x0.7". THE CONTRACTOR SHALL SUBMIT CERTIFICATE OF COMPLIANCE CERTIFYING THAT THE RPM'S TO BE USED MEET OR EXCEED THE CURRENT STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- 6. UPON COMPLETION OF ALL CONSTRUCTION WORK, INCLUDING, BUT NOT LIMITED TO THE FINAL PAVING OF THE ENTIRE PROJECT AREA AND OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL RESTRIPE ALL PAVEMENT MARKINGS WITHIN AND IN THE VICINITY OF THE CONSTRUCTION AREA AS APPROVED BY THE TRAFFIC DIVISION AND IN ACCORDANCE WITH ITEM 4 ABOVE. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY PAVEMENT MARKINGS, PERMANENT PAVEMENT MARKINGS, AND ALL TRAFFIC SIGNS AND POSTS UNTIL THE PROJECT IS ACCEPTED BY THE COUNTY OF HAWAII.

ALL TRAFFIC SIGNS AND POSTS WITHIN AND IN THE VICINITY OF THE CONSTRUCTION AREA THAT HAVE BEEN DAMAGED, REMOVED, OR ADVERSELY AFFECTED BY THE CONSTRUCTION WORK SHALL BE REPLACED BY THE CONTRACTOR ACCORDING TO ITEMS 7. 8 AND 9 BELOW AT NO COST TO THE COUNTY.

7. ALL TRAFFIC SIGNS AND POSTS SHALL MEET THE REQUIREMENTS OF THE COUNTY OF HAWAII STANDARD DETAIL T-1 EXCEPT THAT FLANGED CHANNEL POSTS AND OCTAGONAL POSTS WILL NOT BE ACCEPTABLE. SIGNS SHALL BE ON ALUMINUM SHEETING OF 0.080-INCH MINIMUM THICKNESS. SIGN POSTS SHALL BE 2" SQUARE TELESPAR TUBING NO. 20 F 12 OR EQUIVALENT WITH 2 1/4" SQUARE TELESPAR ANCHOR POST.

FOR ALL COUNTY DEDICATED STREETS. THE CONTRACTOR SHALL PLACE A TRAFFIC DIVISION MAINTENANCE STICKER ON THE BACK OF EACH SINGLE-SIDED SIGN. STICKERS ARE TO BE ACQUIRED AT THE TRAFFIC DIVISION.

- 8. ALL TRAFFIC SIGNS SHALL BE HIGH INTENSITY RETROREFLECTIVE SHEETING, WITH TYPE IV FOR REGULATORY, WARNING, AND DIRECTIONAL SIGNS AND TYPE IX (FLUORESCENT YELLOW GREEN SHEETING) FOR PEDESTRIAN, SCHOOL, AND BICYCLE CROSSING SIGNS.
- 9. THE 2 1/4" SQUARE ANCHOR POST FOR SIGNS SHALL BE DRIVEN INTO THE GROUND. A.C. PAVEMENT OR CONCRETE SIDEWALK IN ACCORDANCE WITH THE PLANS. ALL DAMAGES TO THE SURROUNDING AREA SHALL BE REPAIRED TO ITS ORIGINAL CONDITION OR BETTER. BEFORE DRIVING INTO CONCRETE. A NEAT HOLE OF APPROXIMATELY 3" DIAMETER SHALL BE DRILLED THROUGH THE CONCRETE PRIOR TO THE INSTALLATION OF THE ANCHOR POST IF DRIVING INTO THE CONCRETE OR A.C. PAVEMENT IS NOT POSSIBLE WITHOUT DAMAGE TO THE SURROUNDING CONCRETE OR A.C. PAVEMENT, A 12"x12" SQUARE SHALL BE SAW-CUT AND REMOVED PRIOR TO THE INSTALLATION OF THE ANCHOR POST AND THEN PATCHED, WITH HOT MIX TO MATCH THE EXISTING A.C. PAVEMENT, OR CONCRETE TO MATCH THE EXISTING CONCRETE SIDEWALK.

GRADING NOTES

THE CONTRACTOR.

FUGITIVE DUST.

CIVIL DRAWING INDEX:

"COMMUNITY NOISE CONTROL".

C-001	CIVIL GENERAL NOTES & CIVIL DRAWING INDEX
C-002	CIVIL GENERAL NOTES
C-003	CIVIL GENERAL NOTES & ABBREVIATIONS
C-004	EROSION & SEDIMENT CONTROL PLAN
C-100	SITE & UTILITIES PLAN
C-110	GRADING & DRAINAGE PLAN
C-200	CIVIL DETAILS
C-201	CIVIL DETAILS
C-202	CIVIL DETAILS
C-203	CIVIL DETAILS
C-204	CIVIL DETAILS
C-300	TRAFFIC CONTROL PLAN

1. ALL GRADING WORK SHALL BE IN ACCORDANCE WITH CHAPTER 10 - "EROSION AND

UNTIL THE DEPARTMENT OF PUBLIC WORKS (DPW) ISSUES A GRADING PERMIT.

2. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE

SEDIMENTATION CONTROL" OF THE HAWAII COUNTY CODE AND AS SHOWN ON THE

FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COSTS

3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING

4. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABL

5. THE CONTRACTOR SHALL INFORM THE DPW OF THE LOCATION OF THE DISPOSAL AND/OR

PERMIT IS MADE. THE DISPOSAL AND/OR BORROW SITE(S) MUST ALSO FULFILL THE

6. NO GRADING WORK SHALL BE DONE ON SATURDAY. SUNDAY AND HOLIDAYS ANYTIME

GRADING WORK IS ALSO IN CONFORMANCE WITH THE COMMUNITY NOISE CONTROL

BORROW SITE(S) REQUIRED FOR THIS PROJECT WHEN AN APPLICATION FOR A GRADING

WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS. PROVIDED SUCH

STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46,

PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 55, WATER

POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS, AND TO THE

EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE

DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII.

REQUIREMENTS OF THE GRADING ORDINANCE.

INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DPW SHALL BE PAYABLE BY

AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE

AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1,

APPROVED PLAN. SHOULD A GRADING PERMIT BE REQUIRED. NO WORK SHALL COMMENCE

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REVIŜION NO.	SYM.		DESCRIPTION		SHT./OF	DA	Λ⊤E	APPROVED		
	NE M	1.	DEPARTME	STATE OF ENT OF LAND AN ENGINEERIN	ID NATU		RESO	URCES		
HICENSED PROFESSIONAL ENGINEER No. 11144-C HAIL, U.S.			HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I							
			CIVIL GENERAL NOTES & CIVIL DRAWING INDEX							
	,									
ТН	is license expir	res april jo, 2024	DESIGNED: AA		SUBMITTE	D: At	•	×.		
	1m	h-	DRAWN: YT		DATE: NO	VEMBE	R 2022			
SOUTHE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION, (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 18-115 OF THE HAWAI ADMINISTRATIVE RULES, DEPARTMENT OF			CHECKED: YT		SCALE:	N/A				
			APPROVED:	Carty Chang			DR/	WING NO.		
COMMERCE	ADMINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED AL ENGINEERS, ARCHITECTS, SURVEYORS SAPE ARCHITECTS).		CHIEF ENGINEER	E-signed 2022-11-28 04 carty.s.chang@hawaii. State of Hawaii				-001		
JOB NO. E00BH30A				Chief Engineer	5 OF	77	SHEE	ETS		

WASTEWATER COLLECTION SYSTEM NOTES

GENERAL REQUIREMENTS

1.	THE GENERAL REQUIREMENTS AND COVENANTS OF THE DEPARTMENT OF PUBLIC WORKS,
	COUNTY OF HAWAII (JULY 1972), THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS
	CONSTRUCTION (APPLICABLE NON-WASTEWATER SECTIONS, SEPTEMBER 1986), THE
	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, DEPARTMENTS OF PUBLIC WORKS,
	COUNTY OF HAWAII (APPLICABLE NON-WASTEWATER SECTIONS, SEPTEMBER 1984),
	WASTEWATER SYSTEM DESIGN STANDARDS, CITY AND COUNTY OF HONOLULU (JULY 2017),
	WASTEWATER SYSTEM STANDARD DETAILS, CITY AND COUNTY OF HONOLULU (JULY 2017)
	AND THE COUNTY OF HAWAII, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT,
	WASTEWATER DIVISION (WWD) STANDARD DETAILS (WW-1 THRU WW-9, CURRENT VERSION)
	SHALL BE APPLICABLE AND INCORPORATED HEREIN UNLESS OTHERWISE NOTED.

- 2. BASIS OF BEARING (HORIZONTAL CONTROL): GOVERNMENT SURVEY TRIANGULATION STATION "HALAI."
- 3. BASIS OF ELEVATION (VERTICAL CONTROL): MONUMENT AT INTERSECTION OF PIILANI AND MANONO STREETS. ELEVATION OBTAINED FROM COUNTY OF HAWAII, PUBLIC WORKS DEPARTMENT (ELEVATION = 15.26 MEAN SEA LEVEL, BRASS PIN IN CONCRETE).
- 4. SURVEY CONTROL AND LAYOUT, WHEN REQUIRED, SHALL BE PERFORMED BY, OR UNDER THE DIRECT SUPERVISION OF, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF HAWAII.
- 5. THE CONTRACTOR SHALL PROCURE AND CONFORM TO ALL PERMITS AND LICENSES REQUIRED, PAY ALL ASSOCIATED CHARGES AND FEES AND GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.
 - A. THE CONTRACTOR SHALL PROCURE AND CONFORM TO A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE STATE OF HAWAII, DEPARTMENT OF HEALTH, CLEAN WATER BRANCH FOR ANY PROJECT WHERE CONSTRUCTION ACTIVITIES WILL DISTURB ONE (1) ACRE OR MORE OF TOTAL LAND AREA OR WHERE DEWATERING IS REQUIRED.
 - B. ALL STORMWATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED SO AS TO PREVENT STORMWATER RUNOFF, CONSTRUCTION WATER, FUELS, CHEMICALS, OR OTHER LIQUIDS BEING DIRECTED INTO OR ONTO ANY SANITARY SEWER FACILITIES WITHIN THE PROJECT LIMITS. BEST MANAGEMENT PRACTICES (BMPS) MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, USE OF RAINSTOPPER MANHOLE INSERTS.
- 6. A MINIMUM HORIZONTAL SEPARATION OF 8 FEET BETWEEN WATER AND SEWER LINES ARE REQUIRED. IF NOT POSSIBLE, SECTION 2.4.12.B OF THE "WASTEWATER DESIGN STANDARDS. CITY AND COUNTY OF HONOLULU, JULY 2017" APPLIES.
- 7. A MINIMUM OF 18 INCH VERTICAL CLEARANCE AT WATER AND SEWER MAIN CROSSINGS WITH SEWER UNDERNEATH THE WATER IS REQUIRED. IF NOT POSSIBLE, SECTION 2.4.12.B OF THE "WASTEWATER SYSTEM DESIGN STANDARDS, CITY AND COUNTY OF HONOLULU, JULY 2017" APPLIES.
- 8. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION OF THE SUBJECT WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS APPROVED BY THE WWD.
- 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL WORK NECESSARY TO COMPLETE CONSTRUCTION PER THE APPROVED PLANS AND SPECIFICATIONS AND SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS. AND PROVIDE A COMPLETED PROJECT. ONLY PLANS APPROVED BY WWD SHALL BE USED FOR CONSTRUCTION OF. OR CONNECTION TO, THE COUNTY'S PUBLIC WASTEWATER SYSTEM. ANY ADDITIONS, DELETIONS, OR CHANGES TO THE WASTEWATER SYSTEM SHALL MEET THE WRITTEN APPROVAL OF THE COUNTY OF HAWAII, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WASTEWATER DIVISION PRIOR TO STARTING THE REVISED WORK.
 - A. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED PLANS ON THE CONSTRUCTION SITE AT ALL TIMES WHERE HE SHALL RECORD THE SIZES, MATERIALS, STATION LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT CONTINUOUSLY UP TO DATE AND SHALL BE AVAILABLE FOR INSPECTION BY THE WWD ON REQUEST.
- 10. INSPECTIONS SHALL BE REQUIRED FOR ALL WORK WHICH INVOLVES THE WWD'S SEWER MAINS, LATERALS, CLEANOUTS, AND ALL NEW SEWER CONSTRUCTION TO BE DEDICATED TO THE COUNTY OF HAWAII. CALL THE WASTEWATER DIVISION AT (808)961-8338 DURING NORMAL BUSINESS HOURS (7:00 A.M. TO 3:30 P.M., MONDAY THROUGH FRIDAY, EXCEPT COUNTY OF HAWAII HOLIDAYS) AT LEAST TWO (2) WORKING DAYS IN ADVANCE TO SCHEDULE AN INSPECTION.
 - A. WWD INSPECTION SHALL BE PERFORMED PRIOR TO BACKFILLING OR COVERING THE PIPE AND ASSOCIATED APPURTENANCES IN PUBLIC EASEMENTS OR RIGHTS-OF-WAY, BEFORE PRIVATE SEWER OR LATERALS ARE CONNECTED TO THE PUBLIC SEWER SYSTEM. AND AFTER ALL ASSOCIATED PLUMBING WORK ON PRIVATE PROPERTY IS COMPLETE, IN ACCORDANCE WITH THE PLUMBING PERMIT.
 - B. WHEN WWD DETERMINES THROUGH INSPECTION THAT MATERIAL, EQUIPMENT OR WORKMANSHIP DO NOT MEET REQUIREMENTS, THE CONTRACTOR WILL BE GIVEN WRITTEN SEWER SYSTEM REQUIREMENTS NOTICE OF NONCOMPLIANCE. IMMEDIATE CORRECTION OF THE DEFICIENCIES SHALL BE ADDRESSED BY THE CONTRACTOR WITH THE WWD ENGINEER AND/OR THEIR REPRESENTATIVE.
 - C. ANY INSPECTION BY WWD, HAWAII COUNTY OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE REGULATIONS, CODES, CONTRACT DOCUMENTS, PLANS, SPECIFICATIONS, OR GOVERNING AGENCY REQUIREMENTS.

WASTEWATER COLLECTION SYSTEM NOTES (CONT.)

GENERAL REQUIREMENTS (CONT.)

- OVERTIME CHARGES TO THE WWD.
- AT (808)961-8338.

- MODIFICATIONS WITHOUT DELAYING THE WORK.

- OTHERWISE SPECIFIED.
- MANHOLES AT ALL TIMES.
- SPILL.
- CONNECTION WITH THIS PROJECT AT ALL TIMES.
- PROHIBITED.

EXISTING CONDITION ASSESSMENT

- RECORDING, PRESERVATION, AND SALVAGE.
- 1. SEWER MAIN PIPE AND FITTINGS: <u>GRAVITY MAIN</u>
 - ON THE APPROVED PLANS.

11. SEWER WORK SHALL BE SCHEDULED SUCH THAT WORK SHALL NOT BE PERFORMED ON SATURDAYS, SUNDAYS OR COUNTY OF HAWAII HOLIDAYS. IF SUCH WORK DICTATES PERFORMANCE ON THESE NON-WORK DAYS, OR AFTER NORMAL HOURS OF OPERATION (3:30 PM TO 7:00 AM). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF

12. THE CONTRACTOR SHALL NOTIFY THE HAWAII ONE CALL CENTER OF ANY PLANNED EXCAVATION ON PUBLIC OR PRIVATE PROPERTY AT LEAST FIVE WORKING DAYS. BUT NOT MORE THAN TWENTY-EIGHT CALENDAR DAYS, PRIOR TO COMMENCING SUCH EXCAVATION (IN ACCORDANCE WITH HRS 269 E-7). CALL 1-866-423-7287 (OR 811). ERRORS IN ONE CALL'S SANITARY SEWER LOCATES SHALL BE REPORTED IMMEDIATELY TO THE WWD

13. LOCATIONS AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEY. THE ENGINEER AND UTILITY PROVIDERS DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF SUCH RECORDS. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS, SIZES, MATERIALS AND DEPTHS OF ALL EXISTING UTILITIES WHERE PROPOSED FACILITIES CROSS.

14. THE CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY SEWER LOCATIONS, ELEVATIONS, AND MATERIALS WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION. POT-HOLING MAY BE REQUIRED FOR SUCH VERIFICATION.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY LINE AND GRADE

16. ALL EXISTING UTILITIES EXCEPT THOSE SPECIFICALLY DESIGNATED FOR ABANDONMENT OR REMOVAL ON THE APPROVED PLANS, INCLUDING WASTEWATER LINE(S), WHETHER OR NOT SHOWN ON THE PLANS. SHALL BE PROTECTED AND REPAIRED BY THE CONTRACTOR IF DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL LEAVE EXISTING FACILITIES IN AN EQUAL TO OR BETTER THAN ORIGINAL CONDITION. THE CONTRACTOR SHALL PAY ALL ASSOCIATED EXPENSES: IN THE EVENT OF DAMAGE TO EXISTING UTILITY FACILITIES OTHER THAN SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY SERVICE PROVIDER. IN THE EVENT OF DAMAGE TO EXISTING SANITARY SEWER FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE WWD AT (808)961-8338.

17. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PRIVATE UTILITIES FOR ADJUSTMENT TO OR RELOCATION OF POWER POLES, VAULTS, ETC. TO AVOID CONFLICT WITH COUNTY SEWER STRUCTURES, LINES AND ASSOCIATED APPURTENANCES.

18. EXPOSED ENDS OF SEWER LINES THAT ARE ABANDONED OR TO BE ABANDONED IN PLACE SHALL BE CAPPED OR PLUGGED WITH CONCRETE FOR A MINIMUM LENGTH EQUAL TO TWO TIMES THE DIAMETER OF THE ABANDONED PIPE AND INTERFERING PORTIONS REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK, UNLESS

19. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER STRUCTURES AND

20. BYPASSING OR SPILLING OF SEWAGE TO THE GROUND, DRAINAGE SYSTEM OR STATE WATERS IS PROHIBITED. IN SUCH CASES, THE CONTRACTOR SHALL IMMEDIATELY CALL THE WWD AT (808)961-8338, TAKE IMMEDIATE ACTION TO CONTAIN THE SEWAGE, AND PAY PENALTIES, INCLUDING LEGAL FEES AND OTHER COSTS RELATED TO THE BYPASS AND/OR

21. THE CONTRACTOR SHALL BE IN PERSON ON THE JOB SITE OR BE REPRESENTED ON THE JOB SITE BY A RESPONSIBLE AGENT WITH AUTHORITY TO ACT FOR THE CONTRACTOR IN

22. THE CONTRACTOR SHALL, AT ALL TIMES DURING THE WORK, KEEP THE PREMISES CLEAN AND ORDERLY. PUBLIC STREETS AND RIGHTS-OF-WAY SHALL BE KEPT CLEAN OF MUD. DUST AND DEBRIS. THE CONTRACTOR SHALL ADEQUATELY WATER DISTURBED AREAS ON-SITE FOR DUST ABATEMENT, AS NEEDED. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED BY EQUIPMENT AND LEAVE THE PROJECT FREE OF RUBBISH AND EXCESS MATERIALS OF ANY KIND. DROPPING OR WASHING DEBRIS OR RUBBISH OF ANY KIND INTO THE SANITARY SEWER SYSTEM IS

THE CONTRACTOR SHALL KEEP ALL PROJECT ACTIVITIES WITHIN THE PROJECT AREA. IN THE EVENT THAT A PREVIOUSLY UNKNOWN ARCHAEOLOGICAL FEATURE, HISTORIC PROPERTY, OR HUMAN REMAINS (INCLUDING HUMAN SKELETAL REMAINS, CREMATIONS, CEREMONIAL OBJECTS, FUNERARY OBJECTS, BURIAL GOODS, ETC.) ARE EXPOSED BY CONSTRUCTION, THE CONTRACTOR SHALL CEASE WORK IN THE VICINITY IMMEDIATELY AND NOTIFY THE WWD. STATE OF HAWAII HISTORIC PRESERVATION DIVISION (SHPD). THE APPROPRIATE MEDICAL EXAMINER OR CORONER. AND THE APPROPRIATE POLICE DEPARTMENT, OF THE DISCOVERY. THE CONTRACTOR SHALL PROTECT THE AREA OF THE REMAINS WITH AN APPROPRIATE MATERIAL. THE CONTRACTOR SHALL COOPERATE WITH THE POLICE OR DEPARTMENT OF LAND AND NATURAL RESOURCES IN THE INVESTIGATION.

A. ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC SDR-26 BELL AND SPIGOT IN CONFORMANCE WITH THE LATEST VERSION OF ASTM D3034, UNLESS OTHERWISE NOTED

B. LAYING OF PIPE SHALL GENERALLY COMMENCE AT THE LOWEST POINT, THE BELL END FACING UPSTREAM. REGARDLESS OF THE STATIONING SHOWN ON THE PLANS. PIPE SHALL BE FITTED TOGETHER AND MATCHED WITH GASKETS PROPERLY SEATED SO THAT WHEN LAID IT WILL FORM A UNIFORM AND SMOOTH INVERT.

WASTEWATER COLLECTION SYSTEM NOTES (CONT.)

SEWER MAIN PIPE AND FITTINGS (CONT.)

- C. REFER TO THE DRAWINGS FOR DETAILED REQUIREMENTS FOR ALL CONNECTIONS TO EXISTING SANITARY SEWER PIPE. DETAILS SHALL BE PROVIDED TO AND APPROVED BY WWD.
- D. THE INTERIOR OF THE SEWER PIPE SHALL BE CLEARED OF ALL DEBRIS AND FOREIGN MATERIALS AS THE WORK PROGRESSES. BEFORE LEAVING THE WORKPLACE FOR THE NIGHT, EXPOSED ENDS OF SEWER PIPE SHALL BE CLOSED WITH TEMPORARY COVERS TO PREVENT EARTH AND DEBRIS FROM ENTERING THE PIPE.
- E. BECAUSE OF THE NATURE OF PLASTIC PIPE AND FITTINGS, THE CONTRACTOR IS CAUTIONED TO EXERCISE CARE IN HANDLING, LOADING, UNLOADING, AND STORING TO AVOID DAMAGE.
 - I. KEEP PIPE AND GASKETS CLEAN, AWAY FROM OIL, GREASE, EXCESSIVE HEAT AND ELECTRIC MOTORS, WHICH PRODUCE OZONE, AND PROTECTED FROM DIRECT SUNLIGHT AND TEMPERATURE CHANGES IN PROLONGED EXPOSURE TO AVOID CRACKING.
 - II. HEAVY IMPACT MAY CAUSE A SLIGHT LONGITUDINAL INDENTATION ON THE OUTSIDE OF THE PIPE AND A CRACK ON THE INSIDE. THIS WILL RESULT IN A SPLIT AS SOON AS THE PIPE IS PLACED UNDER LOADING. ANY PIPE THAT HAS BEEN IMPACTED SHALL BE EXAMINED CLOSELY FOR THIS TYPE OF DAMAGE.
- 2. TRENCHING, PIPE BEDDING, AND BACKFILL
- A. THE CONTRACTOR SHALL HAVE APPROPRIATE EQUIPMENT ON-SITE TO PRODUCE A DRY, FIRM, SMOOTH, UNDISTURBED SUBGRADE AT THE TRENCH BOTTOM THAT IS TRUE TO LINE AND GRADE. THE TRENCH BOTTOM SHALL BE FREE OF LOOSE MATERIALS OR TOOTH GROOVES FOR THE ENTIRE TRENCH WIDTH PRIOR TO PLACING PIPE BEDDING MATERIAL.
- B. THE CONTRACTOR SHALL FURNISH AND INSTALL SUFFICIENT TRENCH BOXES. SHORING. SHEETING, OR BRACING TO ENSURE THE SAFETY OF WORKMEN AND THE PUBLIC, PROTECT THE WORK, AND PROTECT EXISTING FACILITIES.
 - I. SHORING, SHEETING, AND BRACING SHALL COMPLY WITH OSHA RULES, ORDERS AND REGULATIONS.
 - II. WHERE REQUIRED BY OSHA, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE DRAWINGS AND/OR CALCULATIONS FOR SPECIALLY DESIGNED BRACING AND SHORING, PREPARED AND STAMPED BY A HAWAII REGISTERED PROFESSIONAL ENGINEER, TO THE WWD A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO BEGINNING ASSOCIATED EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF ALL SHEETING, SHORING AND BRACING AND COMPLIANCE WITH THE LAW. FAILURE OF THE INSPECTOR TO SUSPEND THE WORK OR NOTIFY THE CONTRACTOR OF ANY INADEQUACY OF SHEETING. SHORING, BRACING OR NONCOMPLIANCE WITH THE LAW SHALL NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.
 - III. THE CONTRACTOR SHALL FURNISH AND MAINTAIN SHORING, SHEETING AND BRACING UNTIL AFTER THE PIPELINE AND APPURTENANCES HAVE BEEN INSTALLED AND THE INSPECTOR HAS APPROVED THE PLACEMENT OF SUFFICIENT BACKFILL. THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO ALLOW FOR ACCESS BY THE INSPECTOR OR TESTING PERSONNEL TO PERFORM COMPACTION TESTING AND INSPECTION OF THE LIFTS OF BACKFILL PLACED.
- C. NO TRENCHES IN ROADS OR DRIVEWAYS SHALL BE LEFT OPEN OVERNIGHT. ALL SUCH TRENCHES SHALL BE PLATED OR CLOSED AND NORMAL TRAFFIC FLOW RESTORED BEFORE THE END OF EACH WORK DAY.
 - I. THE STEEL TRENCH PLATES SHALL BE CAPABLE OF SUPPORTING HS-20 LOADING.
 - II. THE PLATES MUST EXTEND BEYOND THE EDGE OF THE TRENCH WALL FAR ENOUGH TO ADEQUATELY SUPPORT HS-20 TRAFFIC LOADS. IN NO CASE SHALL THE PLATES EXTEND LESS THAN TWELVE (12) INCHES BEYOND THE TRENCH WALL.
 - III. EACH PLATE MUST BE FULLY SUPPORTED AROUND ITS PERIMETER TO PREVENT WOBBLING OR ROCKING.
 - IV. THE PLATES SHALL BE SECURED TO PREVENT ANY MOVEMENT.
 - V. TRENCHES AND EXCAVATIONS BENEATH THE PLATES SHALL BE ADEQUATEL SHORED AND BRACED TO WITHSTAND HS-20 TRAFFIC LOADS.
 - VI. TEMPORARY PAVING OR COLD-MIX ASPHALTIC CONCRETE (CUTBACK) SHALL PLACED AND CONTINUOUSLY MAINTAINED AROUND ALL OUTSIDE EDGES OF TRENCH PLATES UNTIL THEY ARE REMOVED.
- D. TRENCHES SHALL BE PROPERLY BACKFILLED AND COMPACTED AS SHOWN ON THE APPROVED PLANS.

Erics. Jakamina WASTEWATER DIVISION CHIEF

8/24/2 DATE

WASTEWATER COLLECTION SYSTEM NOTES (CONT.)

SEWER SYSTEM REQUIREMENTS (CONT.)

- E. PIPE BEDDING SHALL BE CLASS B 3/4" AGGREGATE BASE COURSE PLACED WITHIN THE DRY TRENCH, AT NOT LESS THAN 4 INCHES BUT NOT MORE THAN 5 INCHES IN COMPACTED THICKNESS. BEDDING SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DRY DENSITY, UNLESS OTHERWISE NOTED ON PLANS, TO AVOID STRESS CONCENTRATIONS AND ASSOCIATED IRREGULAR PIPE DEFORMATIONS. RECESSES CONSTRUCTED IN THE BEDDING. FOLLOWED BY HAND COMPACTION OF BACKFILL AROUND THE BELLS, WILL PROVIDE CONTINUOUS LONGITUDINAL SUPPORT AND UNIFORM BEARING BELOW THE PIPE JOINTS.
- F. THE REMAINDER OF THE PIPE EMBEDMENT SHALL ALSO BE CLASS B 3/4" AGGREGATE BASE COURSE, PROPERLY PLACED, IN LIFTS NOT TO EXCEED 6", AROUND THE PIPE HAUNCHES AND EXTENDING TO A MINIMUM OF 12" COMPACTED THICKNESS OVER THE TOP OF THE PIPE. PIPE ZONE EMBEDMENT SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DRY DENSITY, UNLESS OTHERWISE NOTED ON PLANS, TO PROVIDE ADEQUATE SIDE SUPPORT AND ENSURE THE PIPE'S FULL STRENGTH IS ACHIEVED WHILE AVOIDING PIPE DEFLECTION, VERTICAL AND LATERAL DISPLACEMENT.
 - G. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) SHALL BE USED AS THE FINAL TRENCH BACKFILL UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED IN WRITING BY THE WWD ENGINEER.
 - H. COMPACTION TESTING FOR BEDDING AND EMBEDMENT MATERIALS FOR SEWER MAIN INSTALLATION SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND QUALITY CONTROL LABORATORY. COMPACTION TEST FREQUENCY SHALL BE A MINIMUM OF ONE (1) TEST PER 150 LINEAL FEET PER LIFT OR A FRACTION THEREOF ON ALTERNATING SIDES OF THE PIPE OR STRUCTURE. THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE FREQUENCY OF COMPACTION TESTING TO MATCH FIELD CONDITIONS. TEST RESULTS SHALL BE SUBMITTED TO THE WWD ENGINEER FOR EVALUATION AS PART OF THE FINAL ACCEPTANCE PROCESS.
- SEWER MANHOLES AND APPURTENANCES
 - A. ALL PRECAST CONCRETE SEWER MANHOLES SHALL CONFORM TO THE LATEST VERSION OF ASTM C478.
 - B. ALL SEWER MANHOLE BASE, SECTIONS, CONE, FLAT TOP, BENCHES, AND CHANNELS SHALL INCLUDE A CONCRETE WATERPROOFING, PROTECTION, AND IMPROVEMENT ADMIXTURE. ADMIXTURE SHALL BE XYPEX ADMIX C-1000 OR APPROVED EQUAL PRODUCT. DOSAGE SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND SHALL NOT BE LESS THAN 3% OF THE WEIGHT OF THE PORTLAND CEMENT FRACTION OF THE MIX.
 - C. ALL DROP SEWER MANHOLES, TRANSITIONAL SEWER MANHOLES (RECEIVING MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM FROM THE DISCHARGE OF A FORCE MAINS), AND SEWER MANHOLES WITH CONNECTING PIPES GREATER THAN OR EQUAL TO 12 INCHES NOMINAL DIAMETER SHALL ALSO BE LINED WITH A PVC LINER, DURA-PLATE OR AN APPROVED EQUAL PRODUCT.
 - D. ALL CONSTRUCTED (CAST-IN-PLACE) SEWER MANHOLE BENCHES AND CHANNELS SHALL BE COATED USING XYPEX MEGAMIX I OR AN APPROVED EQUAL PRODUCT.
 - E. SEWER MANHOLE CHANNELS, INCLUDING THOSE AT CONNECTIONS TO EXISTING MANHOLES. SHALL PROVIDE A SMOOTH TRANSITION BETWEEN INLET AND OUTLET SEWERS. THE ANGLE BETWEEN THE INLET AND OUTLET SHALL BE A MINIMUM OF 90 DEGREES.
 - F. UNLESS OTHERWISE APPROVED OR NOTED, ALL MANHOLES FOR CONNECTING SEWER LINES LESS THAN OR EQUAL TO 12-INCH NOMINAL DIAMETER SHALL BE PROVIDED WITH "ECCENTRIC" CONE SECTIONS WITH TYPE SA FRAMES AND COVERS (STD. DETAIL S-22).
 - G. UNLESS OTHERWISE APPROVED OR NOTED. ALL MANHOLES WITH CONNECTING SEWER LINES GREATER THAN 12-INCH NOMINAL DIAMETER OR LESS THAN 5 FEET DEEP SHALL BE PROVIDED WITH A FRAME AND COVER WITH A MINIMUM 48" CLEAR OPENING. THE 52-INCH COVER SHALL HAVE A SMALLER 25-5/16-INCH COVER INSTALLED FOR ROUTINE MAINTENANCE AND INSPECTION. THE SMALLER COVER SHALL BE PROVIDED WITH RECESSED STAINLESS STEEL BOLTS TO ALLOW SECURING. PERMANENT ALIGNMENT MARKS (MATCH MARKS) SHALL BE PROVIDED FOR THE BOLTS TO FACILITATE REINSTALLATION OF THE COVER. THE FRAME AND COVER SHALL BE AN ECCENTRIC CONFIGURATION. D&L FOUNDRY & SUPPLY: MODEL A-1428 OR APPROVED EQUAL.

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020	SUPERVISION WILL BE UND CONSTRUCTIO	S WORK WAS PREPARED BY ME OR UNDER MY ERVISION AND CONSTRUCTION OF THIS PROJECT DE UNDER MY OBSERVATION. (DBSERVATION OF ISTRUCTION AS DEFINED IN CHAPTER 16-115 OF HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF MMERCE AND CONSUMER AFFARS ENTITLED JFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS DIANDERGE ABCHITECTS)	UCTION OF THIS PROJECT AVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED:	Carty Chang DRAWIN			AWING NO.		
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<u>W/</u>	ASTEWATER COLLECTION SYSTEM NOTES (CONT.)	<u>WA</u>	<u>.</u> S1
<u>SE</u>	WER SYSTEM REQUIREMENTS (CONT.)	<u>SEW</u>	<u>ER</u>
3.	SEWER MANHOLES AND APPURTENANCES (CONT.)	5.	SE
	H. A FLEXIBLE PIPE TO MANHOLE CONNECTOR SHALL BE USED WHENEVER A PIPE PENETRATES INTO A PRECAST CONCRETE MANHOLE OR STRUCTURE. CONNECTIONS SHALL BE WATER—TIGHT AND SHALL PROVIDE FOR SMOOTH FLOW INTO AND THROUGH THE MANHOLE WITH NO PONDING.		E.
	 NEW SEWER PIPE CONNECTIONS TO NEW MANHOLES SHALL BE WITH AN APPROVED CAST-IN-PLACE MANHOLE PIPE ADAPTER (A-LOK, ECONOSEAL, OR APPROVED EQUAL PRODUCT). 		
	II. EXISTING SEWER PIPE CONNECTIONS TO NEW MANHOLES SHALL BE WITH AN APPROVED MANHOLE PIPE ADAPTER (A-LOK FIELD SLEEVE OR APPROVED EQUAL PRODUCT).		
	III. SEWER PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE WITH AN APPROVED MANHOLE PIPE ADAPTER (A-LOK FIELD SLEEVE OR APPROVED EQUAL PRODUCT). OPENINGS FOR NEW CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE-DRILLED AND SURFACE ROUGHENED. SMALL CHIPPING HAMMERS OR SIMILAR LIGHT TOOLS MAY BE USED TO ENLARGE EXISTING OPENINGS OR SHAPE CHANNELS IN EXISTING MANHOLES. USE OF PNEUMATIC JACKHAMMERS OR OTHER HEAVY TOOLS WHICH COULD DAMAGE OR CRACK THE MANHOLE BASE IS PROHIBITED.	Ξ	
	I. ONE HAND GRAB RUNG AT THE TOP OF THE MANHOLE SHALL BE STAINLESS STEEL TYPE "SA" PER DPW STANDARD DETAIL S-42. SEWER MANHOLE RUNGS SHALL BE TYPE "SP" COPOLYMER POLYPROPYLENE PLASTIC, BOWCO INDUSTRIES INC./MEADOW BURKE PART NO. 93810R IN ACCORDANCE WITH WASTEWATER STANDARD DETAIL WW-7.		
	J. RUNGS AND ECCENTRIC CONES OR COVERS SHALL NOT BE ALIGNED ABOVE FLOW LINES. THEY SHALL BE PLACED ON THE SIDE OF THE MANHOLE WITH THE LARGEST SHELF.		
	K. SEWER MANHOLES LOCATED IN UNPAVED AREAS SHALL BE PROVIDED A REINFORCED 3000 PSI CLASS "A" CONCRETE COLLAR. THE REINFORCED CONCRETE COLLAR SHALL BE A MINIMUM OF 12" THICK, AND EXTEND A MINIMUM OF 12" BEYOND THE FRAME AND COVER. REINFORCEMENT SHALL CONSIST OF AT LEAST ONE (1) #4 BAR PLACED AT LEAST 3" CLEAR FROM THE EDGE OF CONCRETE AND WRAPPED AROUND THE MANHOLE TOP SECTION (WITH AT LEAST 15" LAP), CENTERED VERTICALLY IN THE COLLAR.		
	L. ALL MANHOLE SECTIONS SHALL BE JOINED USING RAM-NEK RN103 OR APPROVED EQUAL.		
4.	SEWER LATERAL PIPE AND FITTINGS		
	A. NEW SEWER LATERALS AND CLEANOUTS SHALL BE 6" DIAMETER, PVC SDR26 PIPE AND FITTINGS.)	
	B. SEWER CLEANOUTS SHALL BE LOCATED IN THE COUNTY RIGHT-OF-WAY OR EASEMENT WITHIN ONE FOOT OF THE PROPERTY LINE OR BOUNDARY. THE CLEANOUT SHALL BE EASILY ACCESSIBLE (I.E. NOT BE BURIED OR LOCATED UNDER OR CLOSE TO ROCK WALLS, FENCES OR OTHER OBSTRUCTIONS).		
	I. NEW HIGH FLOW OR/AND HIGH FOG (FAT, OIL, AND GREASE) POTENTIAL DISCHARGERS SHALL INSTALL A SEWER MANHOLE IN LIEU OF A CLEANOUT AT THE PROPERTY LINE.		
	C. SEWER LATERAL CONNECTIONS TO AN EXISTING SANITARY MAIN SHALL BE MADE WITH A WYE CONFIGURED FLEXIBLE SADDLE (FERNCO TSW-6 OR APPROVED EQUAL) ROTATED 45 DEGREES ABOVE THE MAIN SPRING LINE UNLESS OTHERWISE DIRECTED BY THE WWD.	í 6.	FIN
	I. SEWER LATERAL SADDLE CONNECTIONS AND CORED SEWER MAIN ENTRY, WHEN DIRECTED BY THE WWD, SHALL PROVIDE A SMOOTH TRANSITION AND UNOBSTRUCTED FLOW TO THE MAIN. SADDLES SHALL COMPLETELY OVERLAY THE CORED AREA ON THE MAIN. SADDLES SHALL BE SECURED TO THE MAIN WITH STAINLESS STEEL STRAPS AND JACKETED WITH CLASS B REINFORCED CONCRETE IN ACCORDANCE WITH DPW STANDARD DETAIL S-5. THE REINFORCEI CONCRETE JACKET SHALL COMPLETELY ENCASE THE EXISTING SEWER MAIN, BE MINIMUM OF 6" THICK, AND EXTEND A MINIMUM OF 6" EACH WAY BEYOND THE SADDLE.	D	А. В.
5.	SEWER LINE ACCEPTANCE TESTS		
	A. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, EQUIPMENT, AND FACILITIES NECESSARY FOR TESTING ALL UTILITY BACKFILL, PIPE AND STRUCTURES IN ACCORDANCE WITH THESE PLANS AND COUNTY STANDARD SPECIFICATIONS AND REQUIREMENTS.		
	B. ALL NEWLY INSTALLED SEWER MAINS AND LATERALS ARE SUBJECT TO LEAKAGE TESTING AND CCTV INSPECTION PRIOR TO FINAL ACCEPTANCE AS DIRECTED BY THE WWD.	WA 1.	UN
	C. LEAKAGE TESTING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 21.3 D OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986. ALL COSTS FOR SUCH TESTING SHALL BE BORNE BY THE CONTRACTOR.		FA ST CO
	D. DEFLECTION TESTING WHEN REQUIRED BY WWD, SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 21.3 E OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986. ALL COSTS FOR SUCH TESTING SHALL BE BORNE BY THE CONTRACTOR.	2.	TH OR OR HIN CO
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TEWATER COLLECTION SYSTEM NOTES (CONT.)

WER LINE ACCEPTANCE TESTS (CONT.)

- - INSPECTION.
 - CONTRACTOR.

IV. IF THE CCTV INSPECTION REVEALS CONDITIONS SUCH AS DENTS, OUT-OF-ROUND, AND ETC. THE WORK SHALL BE CONSIDERED DEFECTS AND SUBJECT TO REPAIR BY THE CONTRACTOR.

VI. CCTV INSPECTIONS WILL BE RECORDED. IN THE EVENT THAT THE CONTRACTOR REQUESTS A COPY OF THE CCTV INSPECTION, THE CONTRACTOR WILL BE CHARGED FOR THE COPY AT A RATE OF \$25.00.

- NAL PROJECT SUBMITTALS
 - ELECTRONIC SET IN ADOBE PDF FORMAT.
- AS SHOWN ON THE AS-BUILT PLANS.

<u>ER NOTES (PRIVATE)</u>

- ONDITIONS ARE TO BE ENCOUNTERED.

SYSTEM REQUIREMENTS (CONT.)

AN INITIAL CCTV INSPECTION WILL BE PERFORMED BY THE COUNTY AT NO COST TO THE CONTRACTOR SUBJECT TO THE CONDITIONS BELOW.

I. THE CONTRACTOR SHALL OBTAIN A COPY OF THE SEWER LINE ACCEPTANCE TEST CRITERIA FROM THE WWD PRIOR TO REQUESTING OR SCHEDULING A CCTV

II. THE CONTRACTOR SHALL ASSIST THE COUNTY IN THE PERFORMANCE OF THE CCTV INSPECTION, SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL REQUIREMENTS DURING CCTV INSPECTION, AND SHALL BE RESPONSIBLE FOR CLEANING AND REMOVING ALL DIRT. GRIT. ROCK, DEBRIS AND FOREIGN MATERIALS FROM THE PIPES AND MANHOLES PRIOR TO CCTV INSPECTION. IN THE EVENT THAT PIPES OR MANHOLES ARE FOUND TO HAVE BEEN INADEQUATELY CLEANED, THE COUNTY WILL TERMINATE THE CCTV INSPECTION. THE COST OF SUBSEQUENT CCTV INSPECTION(S) WILL BE CHARGED TO THE

III. THE CONTRACTOR SHALL HAVE A SUPERVISORY REPRESENTATIVE PRESENT DURING PERFORMANCE OF THE CCTV INSPECTION.

V. IF THE CCTV INSPECTION REVEALS PIPE SAGS EXCEEDING THE SEWER LINE ACCEPTANCE TEST CRITERIA BELOW THEY SHALL BE CONSIDERED DEFECTS AND 2. SHALL BE RECONSTRUCTED FOR THE ENTIRE RUN OF THE PIPING FROM STRUCTURE-TO-STRUCTURE ACCORDING TO THE FOLLOWING TABLE:

	SAG TOLER	ANCES
PIPE SLOPE	NOM. PIPE SIZE	COMPLIES W/ SPECIFICATIONS
	6"	< ½"
	8"	< ½"
< 0.4%	10"	< 1"
	12"	< 1"
	> 12"	< 1"
	6"	< ½"
0.497 TO	8"	< ½"
0.4% TO 0.7%	10"	< 1"
	12"	< 1"
	> 12"	< 1"
	6"	< 1"
	8"	< 1"
> 0.7%	10"	< 1-1/2"
	12"	< 1-1/2"
	> 12"	< 1-1/2"

"AS-BUILT" PLANS AND CERTIFIED EASEMENTS RECORDED WITH THE BUREAU OF CONVEYANCES, IF APPLICABLE ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY WWD. UPON FINAL PROJECT INSPECTION AND DECLARATION OF SATISFACTORY COMPLETION BY THE WASTEWATER DIVISION CHIEF, SUBMIT TO WWD ONE (1) SET OF FIELD RECORD DRAWINGS AND ONE (1) SET OF "AS-BUILT" PLANS ONE (1) ELECTRONIC SET IN AUTOCAD 2009 OR NEWER VERSION AND ONE (1)

IT IS MANDATORY THAT THE "AS-BUILT" PLANS SHOW CORRECTLY IDENTIFIED PROPERTY TMK NUMBERS, LOCATION OF SEWER MANHOLES, LATERALS, CLEANOUTS AND ALL OTHER MAJOR COMPONENTS OF THE WASTEWATER COLLECTION SYSTEM INCLUDING RIM AND INVERT ELEVATIONS AT ALL SEWER MANHOLES, LATERAL CONNECTIONS AT THE MAIN, AND LATERAL ELEVATIONS AT THE CLEANOUT. SUBMITTED DOCUMENTATION SHALL BE CERTIFIED BY A HAWAII LICENSED PROFESSIONAL LAND SURVEYOR ATTESTING TO THE ACCURACY OF LOCATIONS AND ELEVATIONS OF ALL MAJOR COMPONENTS OF THE WASTEWATER COLLECTION SYSTEM

NLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM ACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH "WATER SYSTEM TANDARDS, STATE OF HAWAII, DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION ONTROL STANDARDS", VOLUME 3, DATED 1991, AND ALL AMENDMENTS AND ADDITIONS.

HE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASSUMPTIONS, DEDUCTIONS, CONCLUSIONS HE/SHE MAY MAKE OR DERIVE FROM THE SUBSURFACE INFORMATION DATA FURNISHED ON THE PLANS. THE CONTRACTOR MUST SATISFY MSELF/HERSELF THROUGH HIS/HER OWN INVESTIGATIONS AS TO WHAT SUBSURFACE

WATER NOTES (PRIVATE) (CONT.)

- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL EFFLU ASSOCIATED WITH THE CONSTRUCTION ACTIVITY AND THE DISINFECTION AND HYDROTESTING OPERATIONS TO SAFEGUARD PUBLIC HEALTH AND SAFETY IN ACCORD WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS. ALL PERMITS AND LICENS FOR CONSTRUCTION WATER DISPOSAL, INCLUDING ALL APPLICATIONS, CHARGES, FEES, AND TAXES, ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. ALL WATER MAINS AND APPURTENANCES SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 150 PSI BY THE CONTRACTOR IN ACCORDANCE WITH DIVISION 300 -CONSTRUCTION, SECTION 302.28, PIPE PRESSURE TEST OF THE "WATER SYSTEM STANDARDS", DATED 2002. DURING THE 30-MINUTE PRESSURE TEST, AND AFTER PRESSURE HAS STABILIZED, THE PRESSURE SHALL NOT DROP MORE THAN 10 PSI.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SH ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED A THE ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO TI EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES SHOWN, THAT NONE EXIST.

DISCHARGE OF DECHLORINATED WATER NOTES

- THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER QUALITY'S SOURCE CONTRO SECTION BY TELEPHONE (692-5377) AT LEAST 48 HOURS PRIOR TO THE DISCHARGE DATES. A WASTEWATER SERVICE INVESTIGATOR MAY WITNESS THE DISCHARGE EVENT VERIFY COMPLIANCE.
- THE CONTRACTOR SHALL MONITOR THE WATER FOR CHLORINE RESIDUAL PRIOR TO DISCHARGE. THE ALLOWABLE DISCHARGE LEVEL OF CHLORINE RESIDUAL IS 5 PPM.
- 3. THE CONTRACTOR SHALL DISCHARGE THE EFFLUENT WATER AT A MAXIMUM ALLOWABI FLOW RATE OF 50 GPM.
- 4. THE CONTRACTOR SHALL SUBMIT TO THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENTAL SERVICES, WITHIN 20 DAYS OF THE DISCHARGING EVENT, A SELF-MONITORING REPORT CERTIFYING THE FLOW RATE OF DISCHARGE, THE EXACT TIME AN DATE OF DISCHARGE. THE DURATION OF DISCHARGE AND TOTAL VOLUME DISCHARGE THIS REPORT SHALL BE SUBMITTED BY THE CONSTRUCTION SUPERVISOR ON-SITE DURING THE DISCHARGE AND SHALL BE CERTIFIED WITH THE FOLLOWING STATEMENT:

"I HEREBY CERTIFY THAT THE EVENT WAS WITNESSED BY MYSELF AND ALL INFORMAT IS BASED ON ACTUAL FACTS DURING DISCHARGE."

5. IN THE EVENT ANY ADVERSE CONDITIONS DO OCCUR DURING THE DISCHARGE PERIOD, AN IMMEDIATE WORK STOPPAGE AND NOTIFICATION TO THE DEPARTMENT OF ENVIRONMENTAL SERVICES OF THE PROBLEM IS REQUIRED.

PUBLIC HEALTH SAFETY AND CONVENIENCE NOTES

- CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL. STATE. AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- 2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE COUNTY SHALL REQUIRE SUPPLEMENTARY MEASURES IF REQUIRED.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING AND REMOVAL OF ALL SILT AND DEBRIS GENERATED BY HIS WORK AND DEPOSITED AND ACCUMULATED WITHIN DOWNSTREAM WATERWAYS, DITCHES AND DRAIN PIPES AND PUBLIC AND PRIVATE ROADWAYS. THE CONTRACTOR AGREES TO REIMBURSE THE OWNER FOR ALL COSTS EXPENDED IN PERFORMANCE OF ABOVE WORK IF REQUIRED FOR PUBLIC HEALTH AND SAFETY OR MADE NECESSARY BY NON-PERFORMANCE BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING COUNTY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- 5. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 46, PUBLIC HEALTH REGULATIONS, DEPARTMENT OF HEALTH, STATE OF HAWAII, "COMMUNITY NOISE CONTROL," IN WHICH MAXIMUM PERMISSIBLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION WORK REQUIRES A PERMIT FROM THE DIRECTOR OF HEALTH, THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46 AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR THE CONSTRUCTION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES ARE AVAILABLE FROM THE HAWAII DISTRICT HEALTH OFFICE, 75 AUPUNI STREET, HILO, HI 96720 OR BY TELEPHONE AT (808)974-6006.

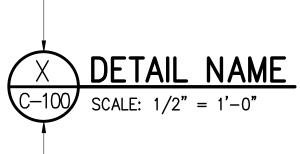
Erics. Jokamina WASTEWATER DIVISION CHIEF

8/24/2020

ABBREVIATIONS

LUENT	AC	ASPHALT CONCRETE	IN	INCHES
DANCE	AMT.	AMOUNT	INV	INVERT
NSES	ARCH	ARCHITECTURAL	JP	JOINT POLE (CABLE/ELEC/TELE)
NJEJ S,	BC	BOTTOM OF CURB	LF	LINEAR FEET
٥,	BFP	BACKFLOW PREVENTER	LP	LOW POINT
TEST	BLDG.	BUILDING		
ILJI	BOT.	BOTTOM	MECH	
	BV	BOTTOM VERTICAL	MFG	
	BW	BOTTOM OF WALL	MH	MANHOLE
THE	C/CONC	CONCRETE	MIN	MINIMUM
	CFS	CUBIC FEET PER SECOND	NO.	NUMBER
	CI	CAST IRON	0.C.	ON CENTER
HOWN AS TO	CIP	CAST IRON PIPE	о/н	OVERHEAD
OF	و ا	CENTERLINE	P	AC PAVEMENT
THE	CLF	CHAIN LINK FENCE	£	PROPERTY LINE
S ARE	CLR	CLEARANCE	POR	PORTION
	CMU	CONCRETE MASONRY UNIT	PROP	
	CONN.	CONNECTION	PVC	POLYVINYL CHLORIDE
	CONT.	CONTINUOUS	PVMT	PAVEMENT
	COTG	CLEANOUT TO GRADE	R	RADIUS
	CRM	CONCRETE RUBBLE MASONRY	ROW	RIGHT-OF-WAY
	CTR	CENTER	RPBP	REDUCED PRESSURE BACKFLOW
OL	CY	CUBIC YARDS		PREVENTER
E	DET.	DETAIL	S	SEWER
ТО	DIA.	DIAMETER	SCH.	SCHEDULE
	DCM	DETECTOR CHECK (DC) METER		
	DI	DRAIN INLET OR DUCTILE IRON	SHT	SHEET
	DIST	DISTANCE	SL	SEWER LINE
	DS	DOWNSPOUT	SMH	SEWER MANHOLE
	DSO	DOWNSPOUT OUTLET	STA	STATION
BLE	DW	DRYWELL	STD.	STANDARD
	DWG	DRAWING	STRUCT	
	DWS	DEPARTMENT OF WATER SUPPLY	SW	SWALE
	EA	EACH	TC	TOP OF CURB
	EG	EXISTING GRADE	THK.	THICK
	ELEC	ELECTRICAL	TLP	TELEPHONE POLE
AND D	ELEV./EL.	ELEVATION	TPWL	TOP OF PIPE WATERLINE
D.	ELP	ELECTRIC POLE	TMK	TAX MAP KEY
•	EP	EDGE OF PAVEMENT	TRANS	TRANSFORMER
•	EQ.	EQUAL	TS	TOP OF STEM
	EQ. ES	EQUAL EXISTING SEWER	TV	TOP VERTICAL
TION				TOP OF WALL
	ESMT	EASEMENT		
	EST.	ESTIMATED	TYP.	
D,	EW	EXISTING WATER	UP	UTILITY POLE
	EXIST.		V	VERTICAL
	FF	FINISHED FLOOR	W	WATER
	FG	FINISH GRADE	W/	WITH
	FH	FIRE HYDRANT	WL	WATER LINE
	FT	FEET	WM	WATER METER
	HB	HOSE BIBB	WV	WATER VALVE
	HP	HIGH POINT	WWD	COUNTY OF HAWAII
	HT.	HEIGHT		

DETAIL/SECTION TITLE

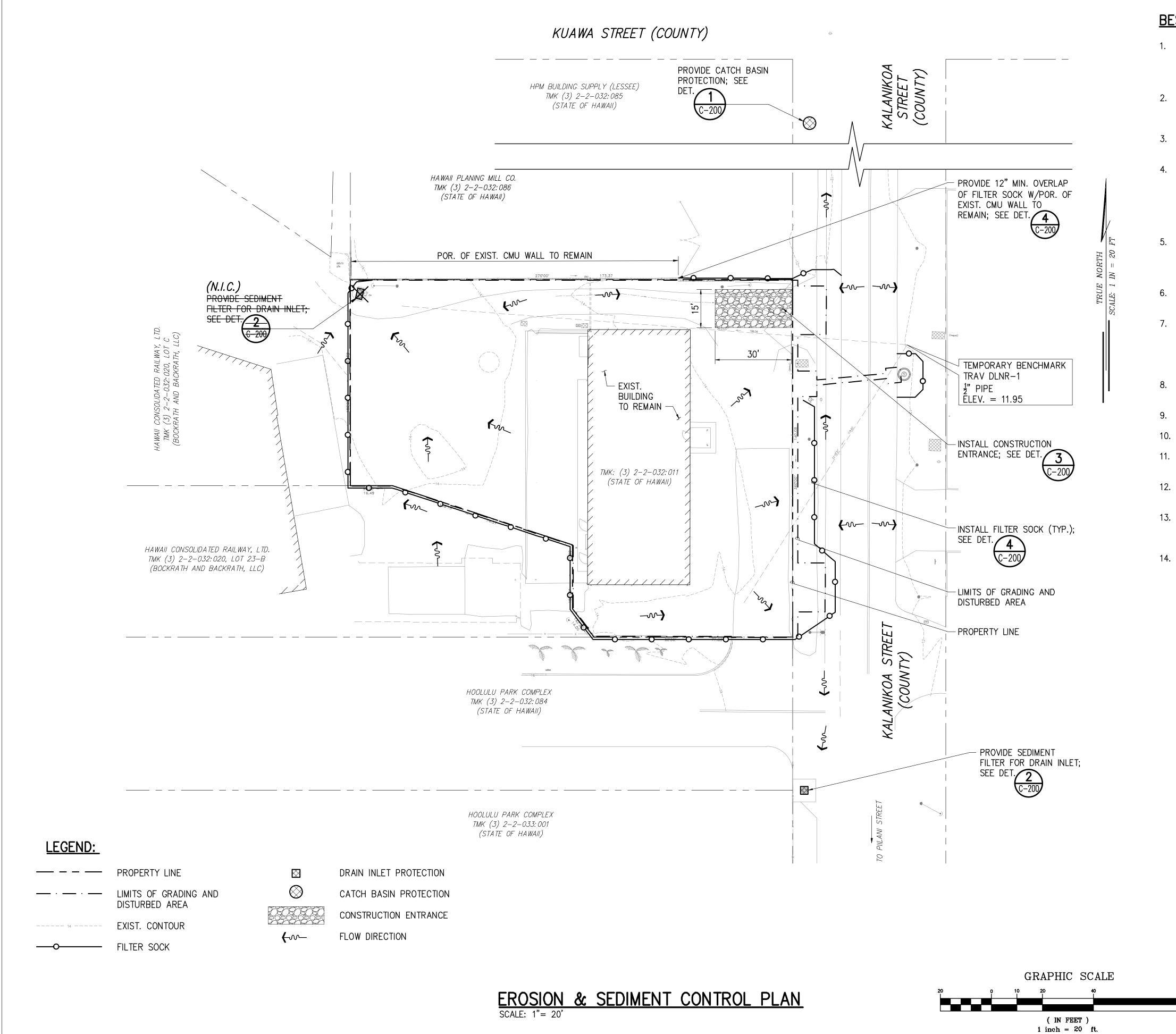


-SECTIONS DESIGNATED BY A LETTER AND DETAILS DESIGNATED BY A NUMBER

WASTEWATER DIVISION

-SHEET NUMBER WHERE DETAIL/SECTION IS SHOWN

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DA	ΓE	APPRÖVED
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HICENSED PROFESSIONAL ENGINEER No. 11144-C HAIL, U.S.			HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I					
			CIVIL GENERAL NOTES & ABBREVIATIONS					
н	IIS LICENSE EXPIR	es april 30, 2024	DESIGNED: AA		SUBMITTE	D: At		Ø
	1m	b	DRAWN: YT		DATE: NO	VEMBER	2022	
		D BY ME OR UNDER MY	CHECKED: YT		SCALE:	N/A		
	AND CONCTR	UCTION OF THIS PROJECT WATION. (OBSERVATION OF IN CHAPTER 18-115 OF I. RULES, DEPARTMENT OF IMER AFFAIRS ENTITLED	APPROVED:	Carty Chang	4.17044467		DRA	WING NO.
COMMERCE PROFESSIONA AND LANDSC	AND CONSUL ENGINEERS, APE ARCHITED	MER AFFAIRS ENTITLED ARCHITECTS, SURVEYORS TS).	CHIEF ENGINEER	E-signed 2022-11-28 0 carty.s.chang@hawaii State of Hawaii			C	-003
	JOB	NO. E00BH30A		Chief Engineer SHEET NO.	7 OF	77 S	HEE	TS



BEST MANAGEMENT PRACTICES (BMPs):

1. THE CONTRACTOR, AT THEIR OWN EXPENSE, SHALL KEEP THE PROJECT AREAS AND SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE DONE IN CONFORMANCE WITH AIR POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES: CHAPTER 11-60, "AIR POLLUTION CONTROL".

2. MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CONSTRUCTION IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

3. CONTRACTOR SHALL OBSERVE AND COMPLY WITH THE STATE DEPARTMENT OF HEALTH REGULATIONS REGARDING STORMWATER DISCHARGE.

4. ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN TWENTY-FOUR HOURS AFTER ANY RAINFALL OF 0.5 INCHES OR GREATER WITHIN A 24-HOUR PERIOD. DURING AN EVENT OF ABOVE NORMAL RAINFALL, THE CONTRACTOR SHALL REMOVE THE SEDIMENT AND DRAIN INLET FILTER AND REPLACE AFTER THE EVENT HAS PASSED. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL CHECKS AND REPAIRS AND A COPY SHALL BE AVAILABLE IN THE FIELD OFFICE.

5. INLET PROTECTION SHALL BE IMPLEMENTED AT THE INDICATED DRAIN INLET(S) TO PREVENT ANY SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE. INLET PROTECTION DEVICES SHALL BE REMOVED DURING PERIODS OF ABOVE NORMAL RAINFALL AND REPLACED AFTER THE EVENT HAS PASSED.

6. GOOD HOUSEKEEPING SHALL BE UTILIZED TO ENSURE PROTECTION OF ROADWAYS FROM MUD, DIRT, AND DEBRIS.

7. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES FOR THEIR CONSTRUCTION, STAGING, AND STORAGE AREAS AND SHALL INSPECT AND MONITOR THEIR CONSTRUCTION. STAGING, AND STORAGE AREAS TO ENSURE THAT NON-STORM WATER DISCHARGES ARE EMITTED. IF SUCH SOURCES ARE IDENTIFIED THE CONTRACTOR SHALL PROVIDE IMMEDIATE MITIGATIVE MEASURES.

8. CONTRACTOR SHALL INSTALL TEMPORARY FILTER SOCKS AND DRAIN INLET PROTECTION AS SHOWN ON PLAN.

9. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE SITE.

10. WATER TRUCKS SHALL BE UTILIZED TO MINIMIZE THE AMOUNT OF AIRBORNE DUST.

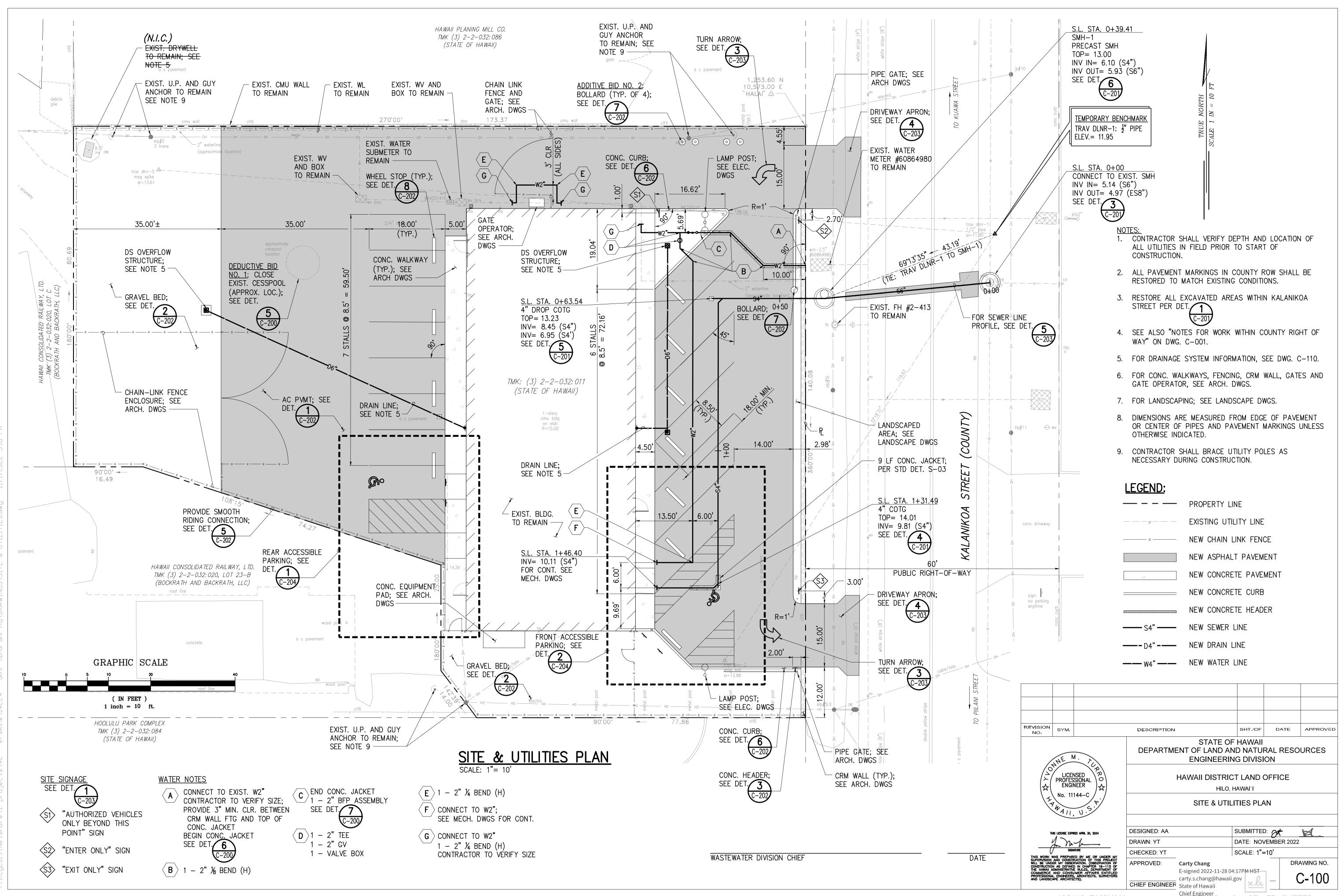
11. THE FINAL LIFT OF EACH DAYS WORK SHALL BE COMPACTED TO PREVENT EROSION OF FILL MATERIALS.

12. THE CONTRACTOR SHALL DISPOSE OF VEGETATION, EQUIPMENT, WASTE CONCRETE AND HYDRAULIC OILS OFF-SITE.

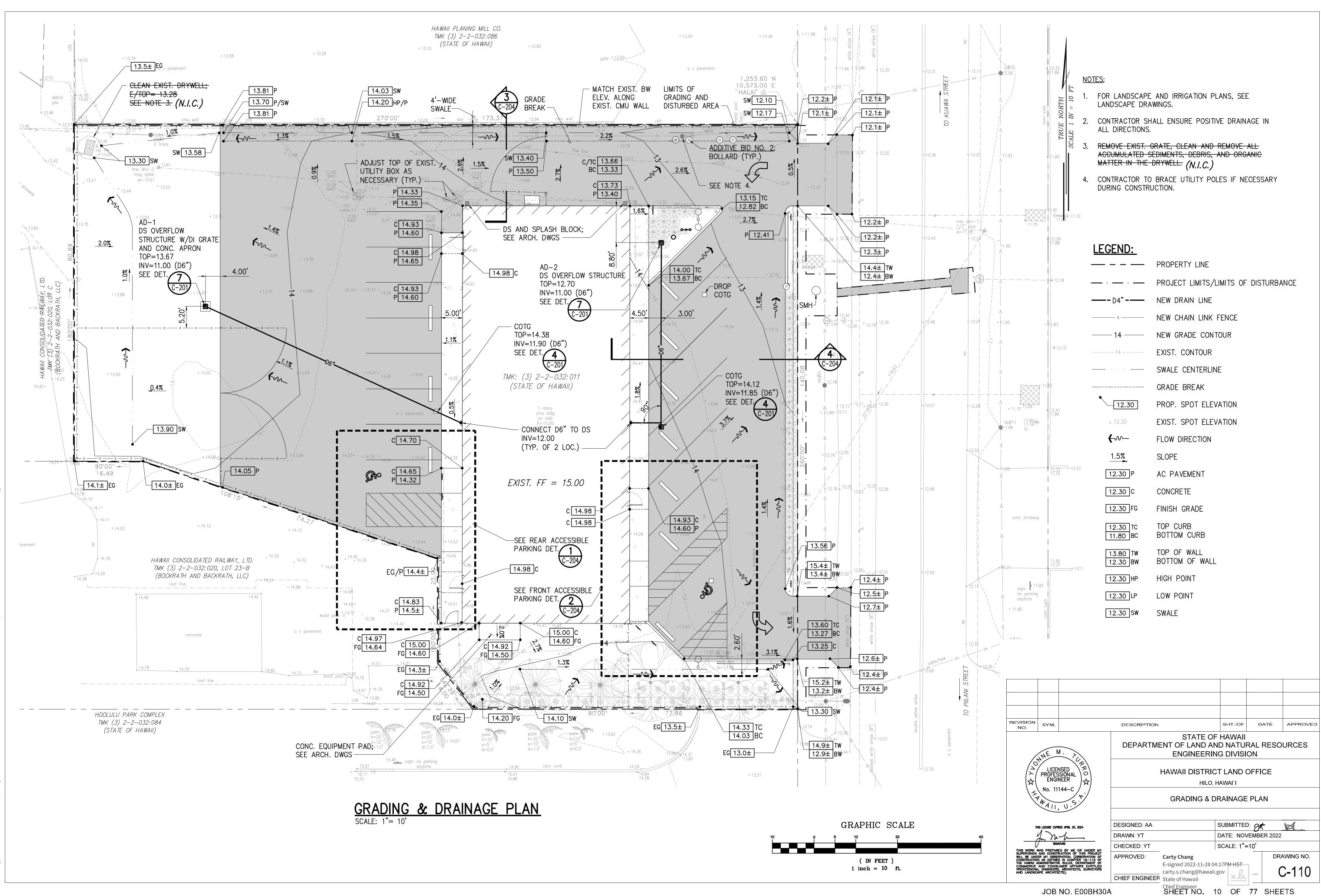
13. AT THE END OF CONSTRUCTION, EXISTING DRAIN INLETS SURROUNDING THE PROJECT SITE SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE DRAIN INLETS SHALL BE REMOVED. FLUSHING INTO THE DRAINAGE SYSTEM IS PROHIBITED.

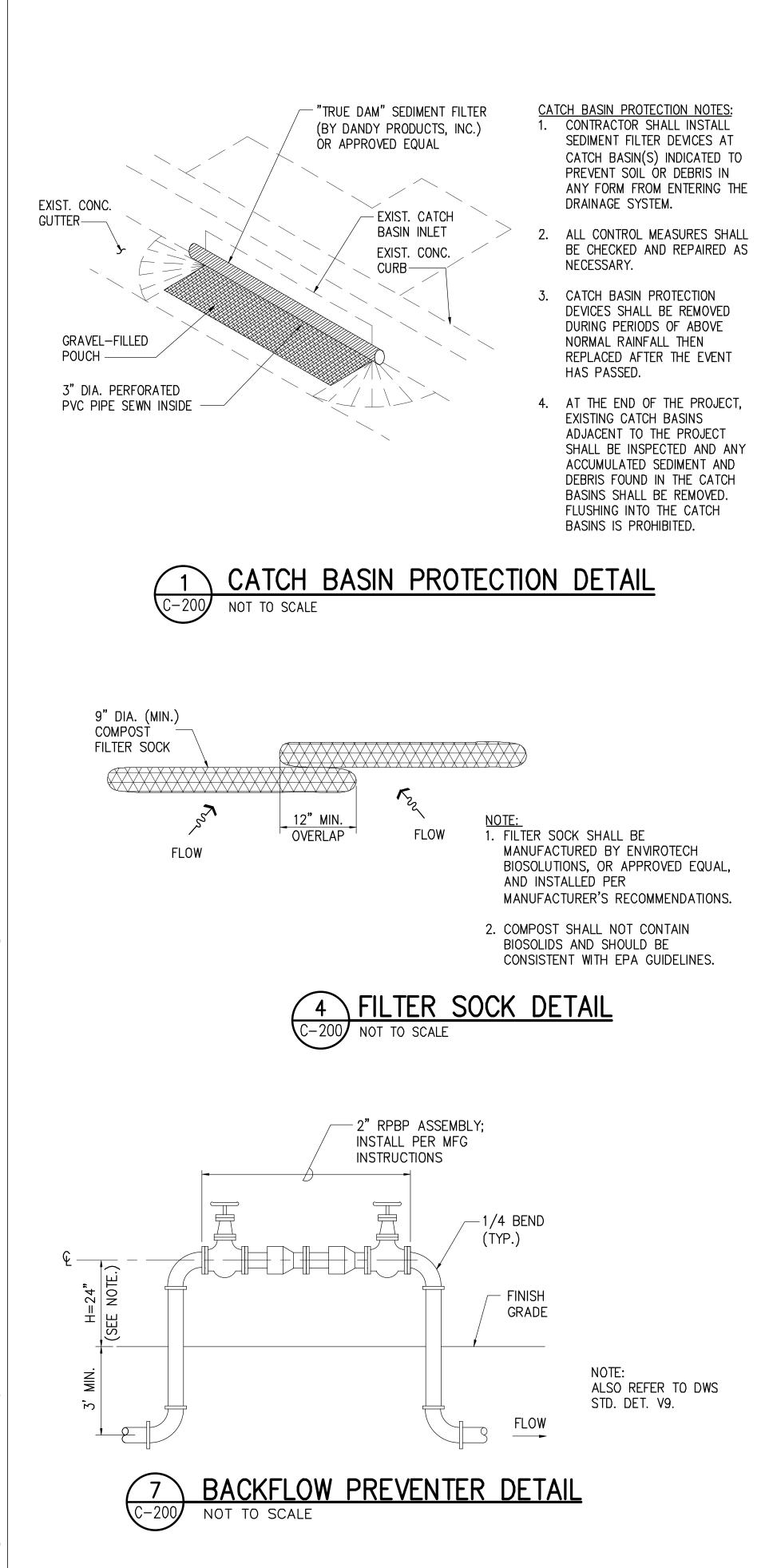
14. GRASS SHALL BE ESTABLISHED ON DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WILL NOT BE WORKED FOR LONGER THAN 14 DAYS. ALTERNATIVES TO GRASS INCLUDE EROSION BLANKETS WITH ANCHORS OR 6-MIL PLASTIC SHEETS. PERMANENT GRASSING SHALL BE APPLIED UPON COMPLETION OF GRADING WORK. THE CONTRACTOR SHALL ALSO ESTABLISH COVER OR LANDSCAPE PRIOR TO REMOVING EROSION CONTROL MEASURES.

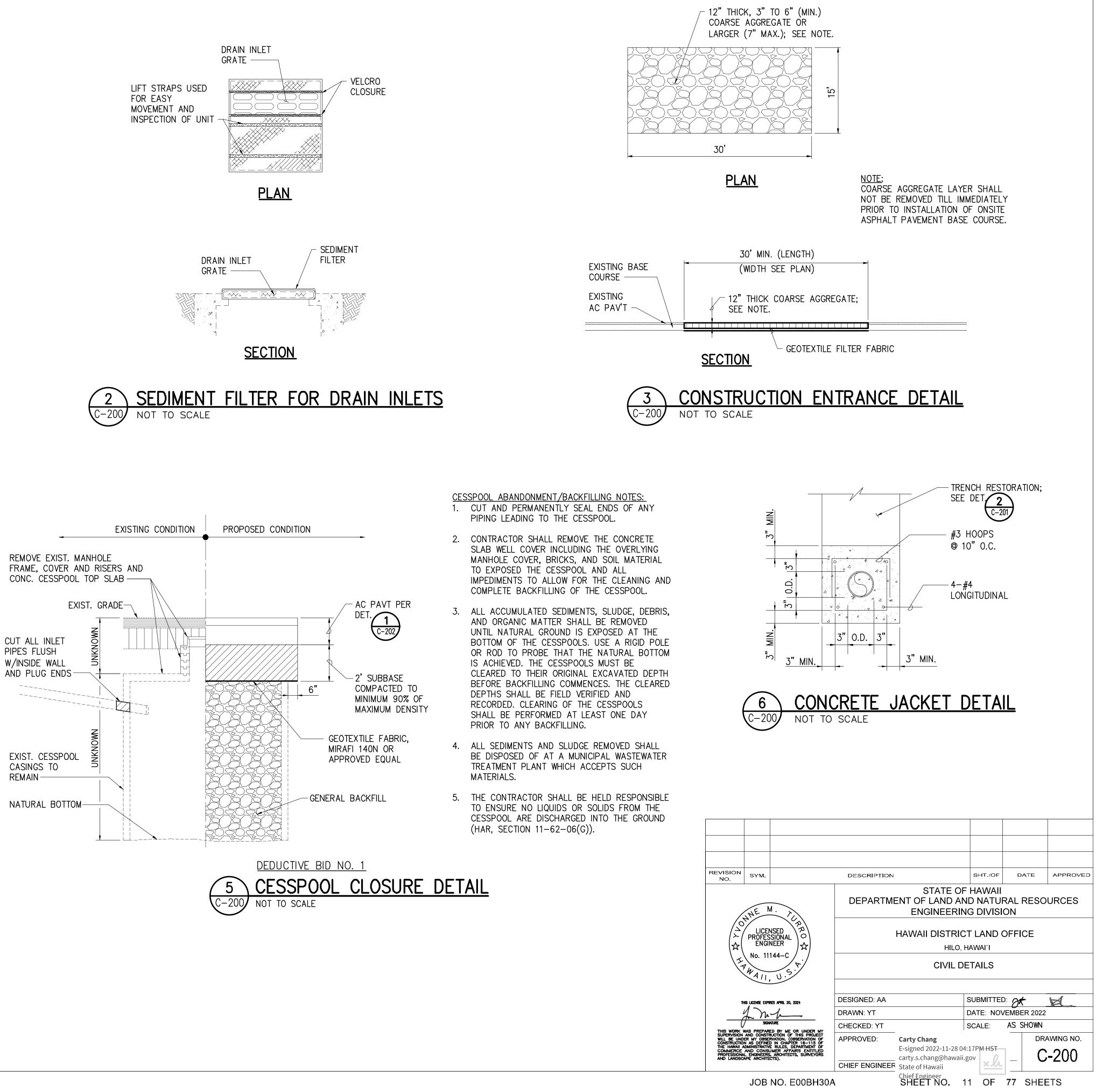
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HA	No. 111 WAII,	44-C . V.S.	EROSION & SEDIMENT CONTROL PLAN					
TH	THIS LICENSE EXPIRES APRIL 30, 2024				SUBMITTE	D: 0#	<u> </u>	A
U	SIGNITURE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION, (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 18-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).		DRAWN: YT		DATE: NOVEMBER 2022			
			CHECKED: YT		SCALE: 1"=	=20'		
SUPERVISION WILL BE UNDE CONSTRUCTION			APPROVED:	Carty Chang	DRAWING			
			CHIEF ENGINEER	E-signed 2022-11-28 04 carty.s.chang@hawaii. State of Hawaii				C-004
	JOB	NO. E00BH30A		Chief Engineer SHEET NO.	B OF	77	SHEE	ETS



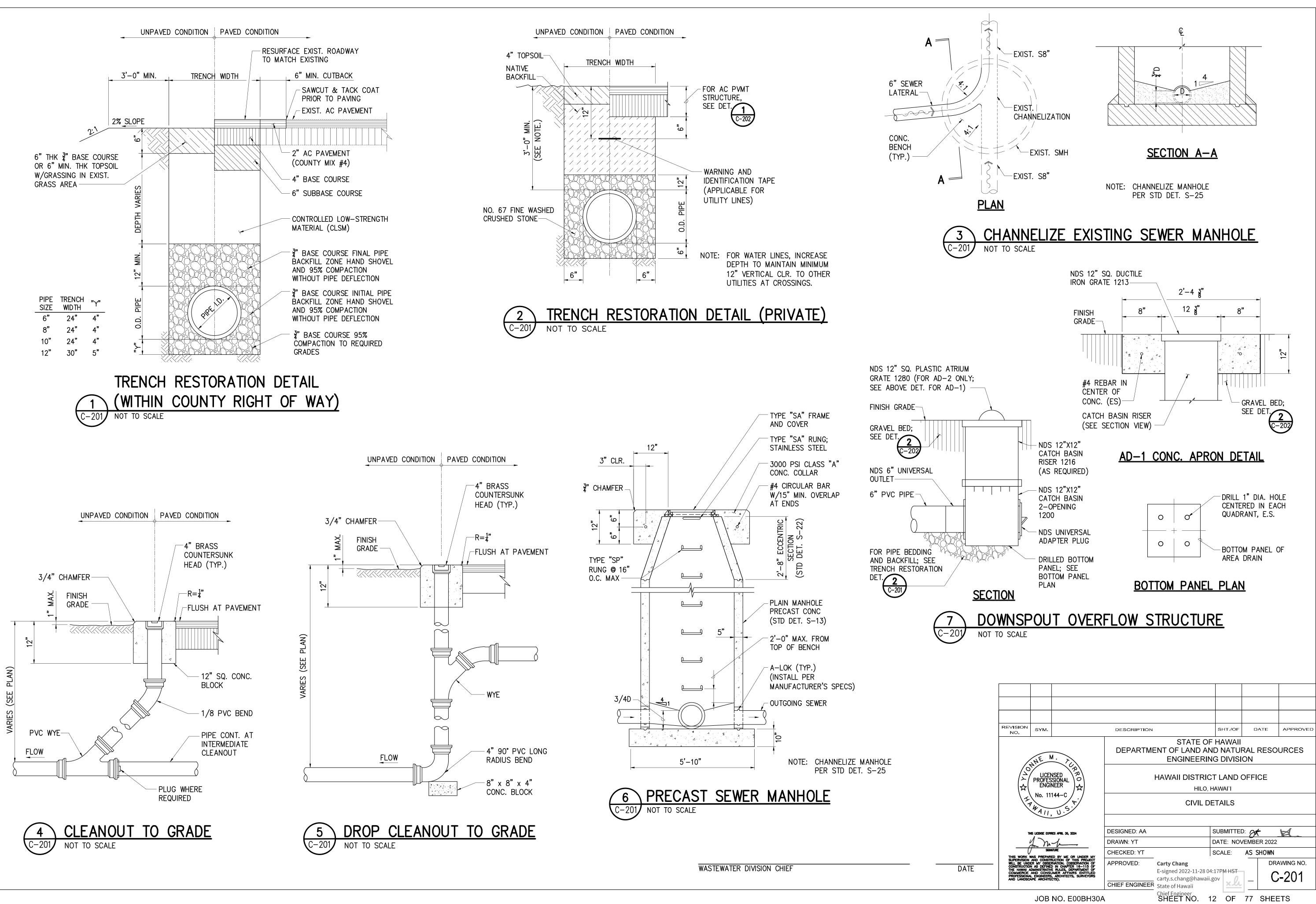
SHEET NO. 9 OF 77 SHEETS

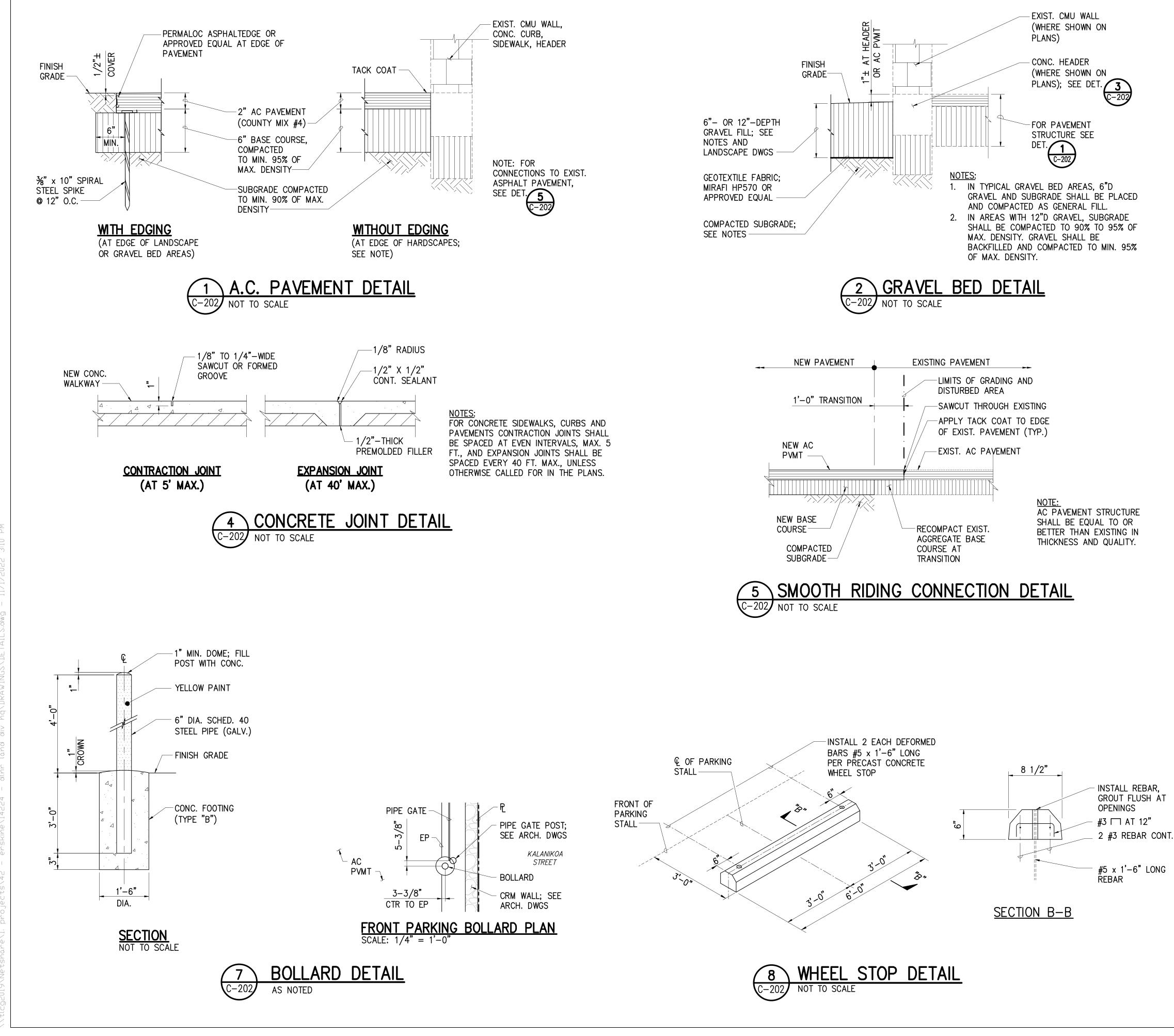


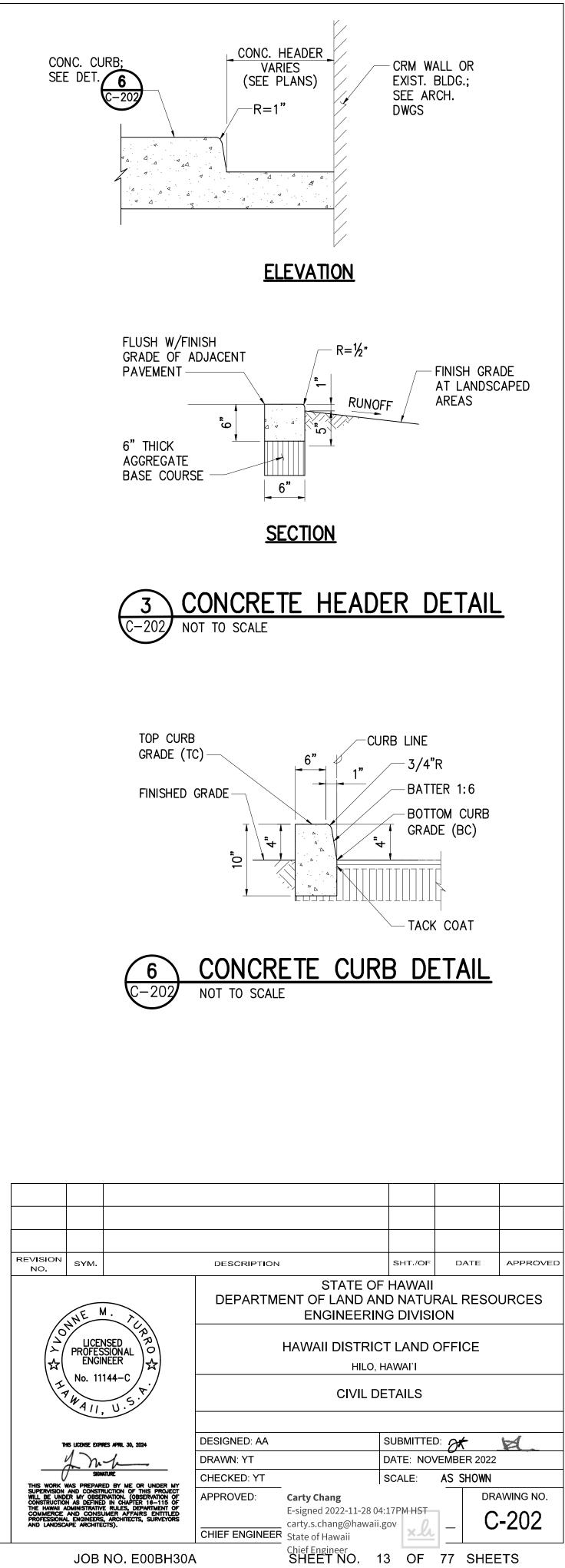




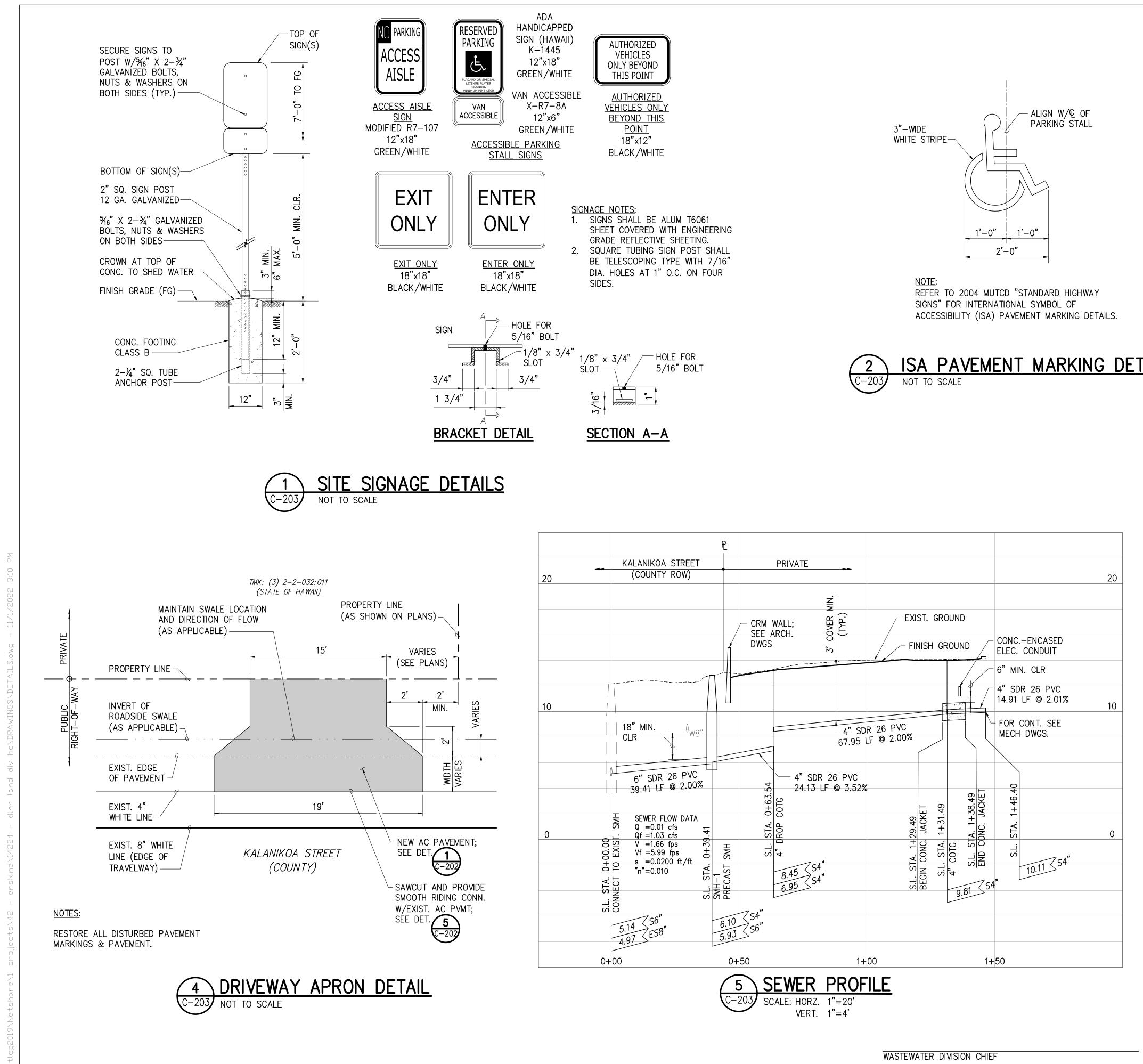




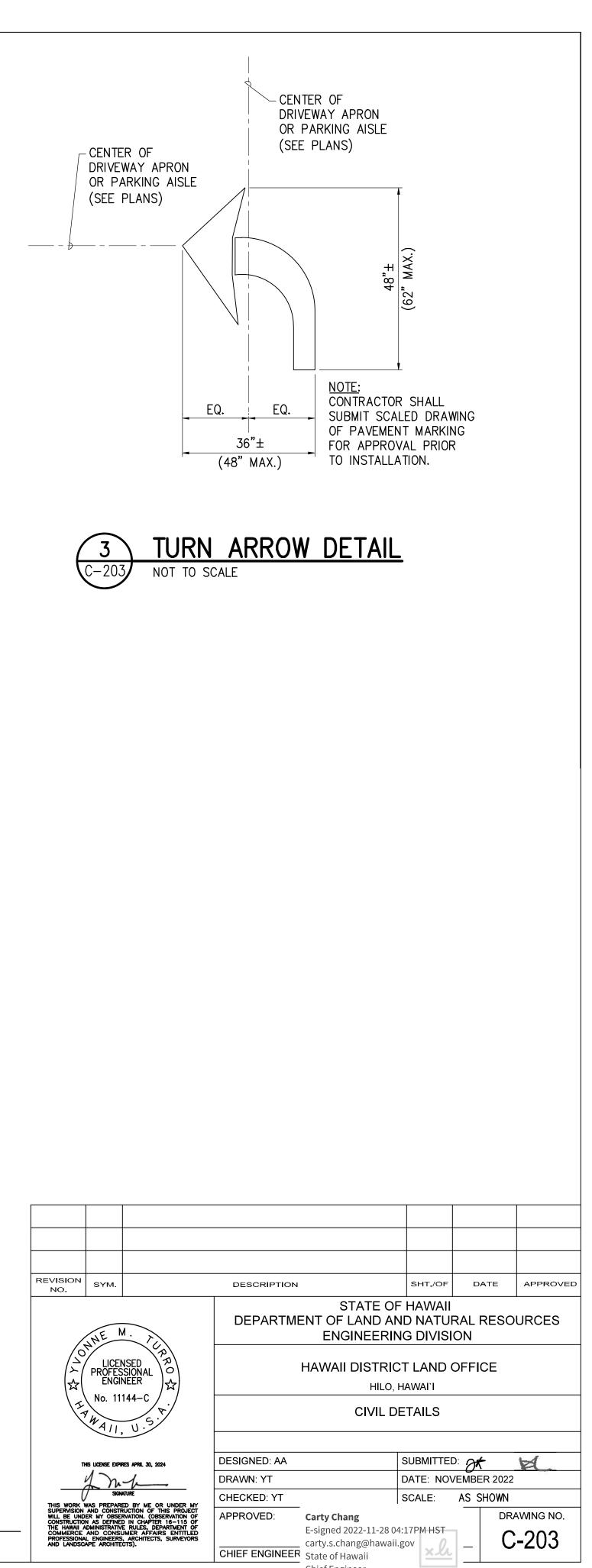




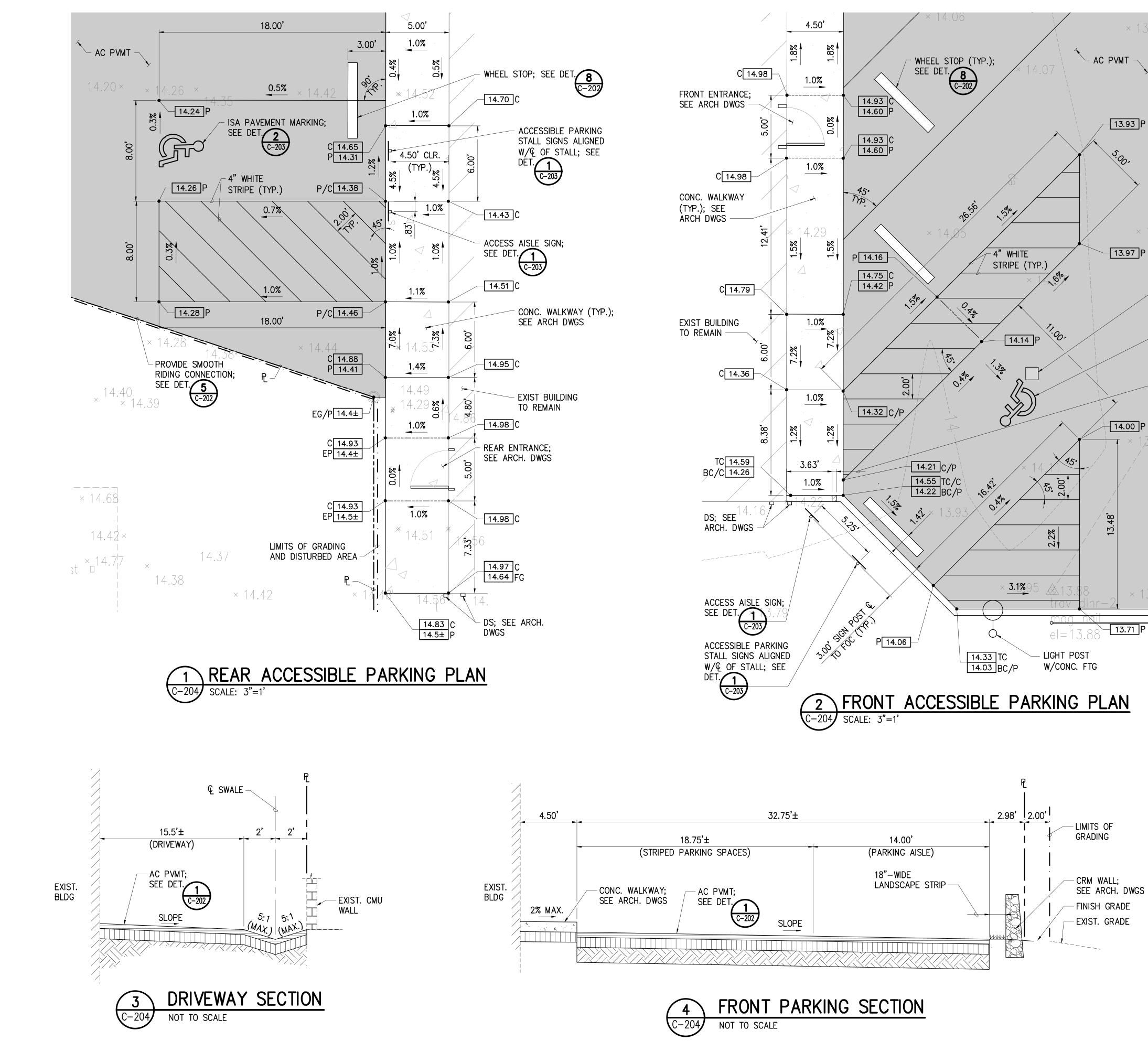
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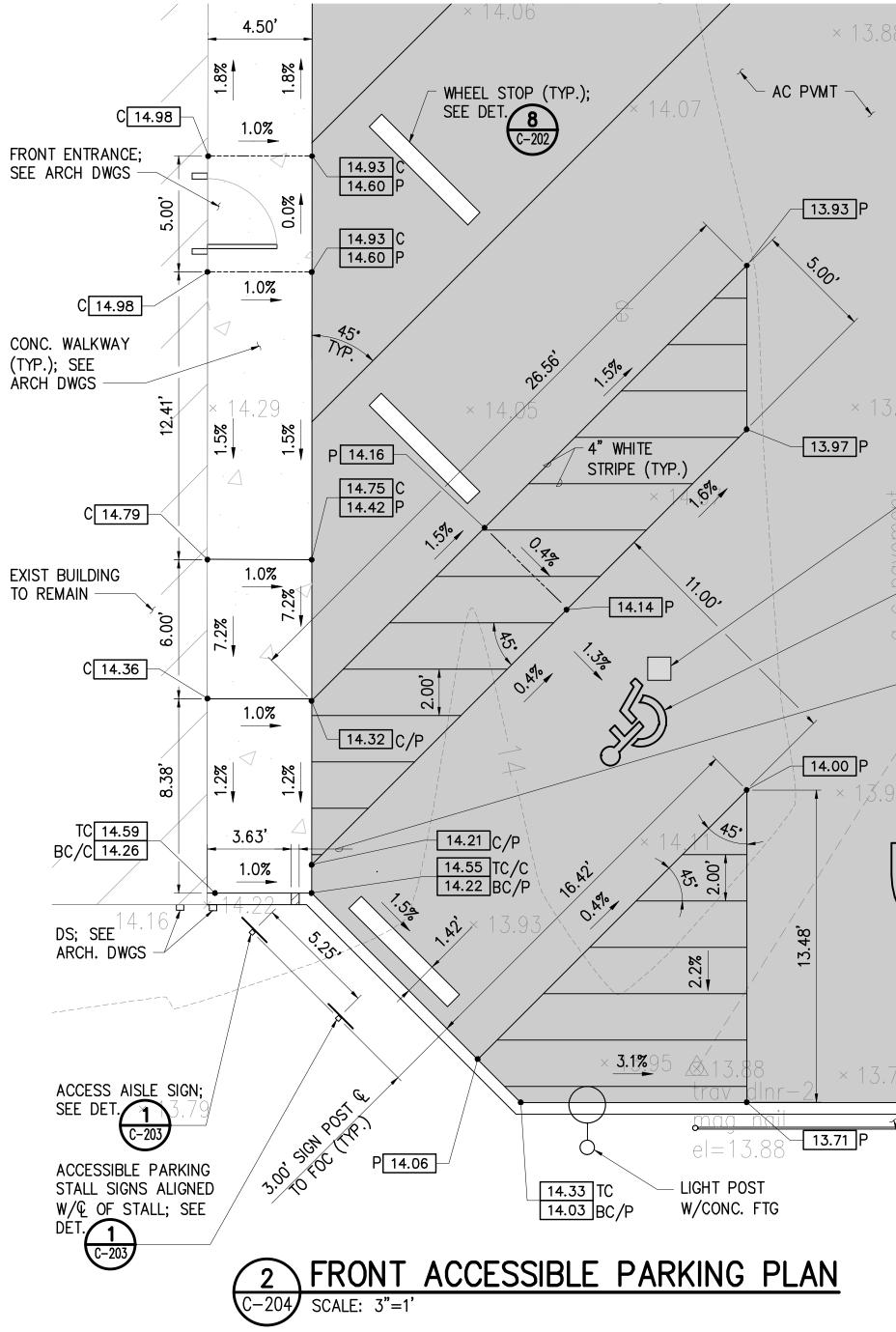


ISA PAVEMENT MARKING DETAIL



Chief Engineer SHEET NO. 14 OF 77 SHEETS



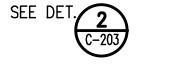


ADA PARKING AREA NOTES:

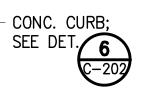
- 1. DESIGN SLOPE FOR ACCESSIBLE PARKING SPACES, ACCESS AISLES AND ACCESSIBLE ROUTES ARE LESS THAN THE MAXIMUM SLOPES ALLOWED BY THE ADA ACCESSIBILITY GUIDELINES. SLOPES INSTALLED IN EXCESS OF THE REGULATION MAXIMUM WILL BE CONSIDERED DEFECTIVE WORK, AND SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE STATE.
- 2. MAXIMUM CONSTRUCTED SLOPES ARE AS FOLLOWS: A. ACCESSIBLE PARKING SPACES, ACCESS AISLES, LANDINGS 2.0% IN ANY DIRECTION
- B. RAMP
- 8.3% RUNNING 2.0% CROSS SLOPE
- C. ACCESSIBLE ROUTE
 - 5.0% RUNNING
 - 2.0% CROSS SLOPE.

- 4" COTG; SEE DET. C-201

ISA PAVEMENT MARKING;

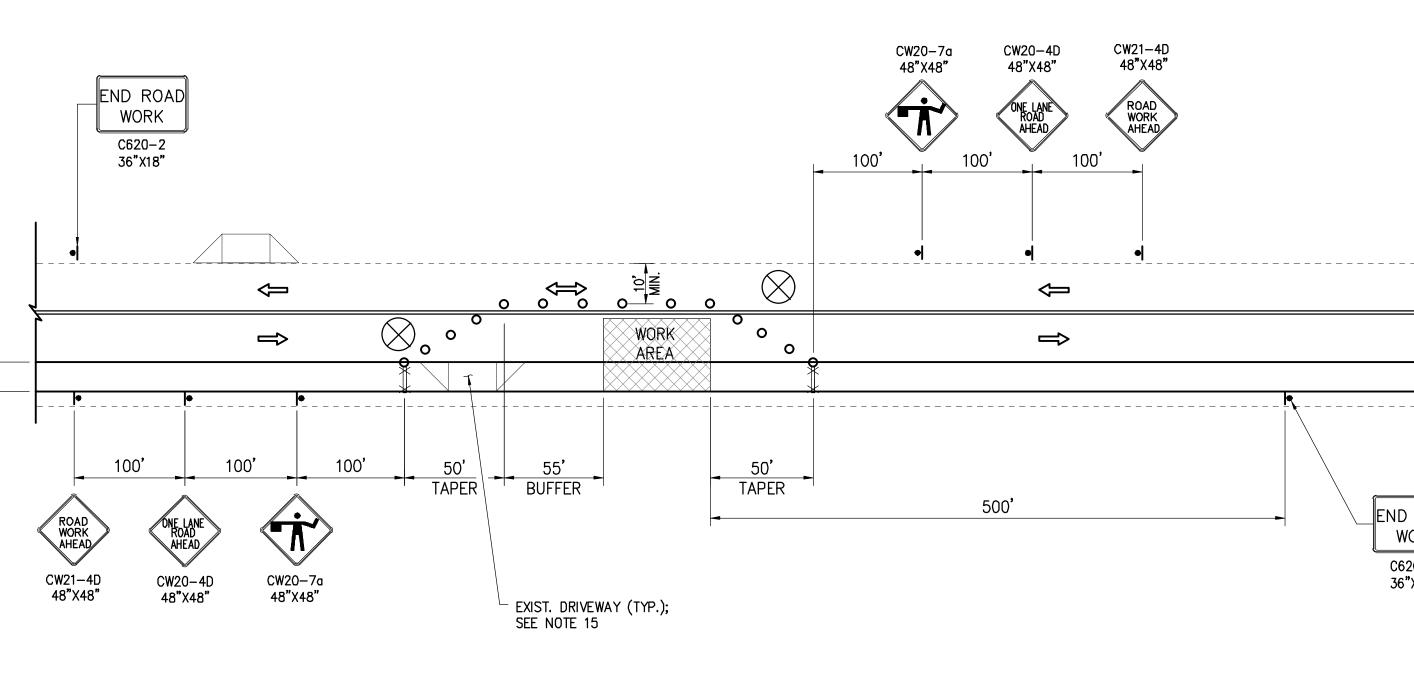


4"-LONG CONC. HEADER; SEE DET. 3 C-202



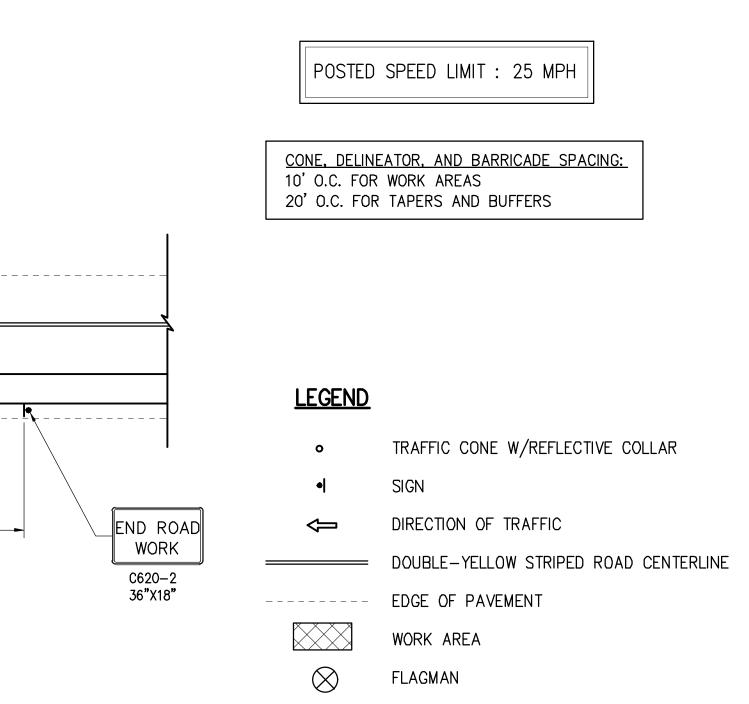
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NNE M. CHNE M. LICENSED PROFESSIONAL ENGINEER			HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I						
T	No. 11 WAII,	44-C . V.S.		CIVIL DE	ETAILS				
тн	is license expir	es april 30, 2024	DESIGNED: AA		SUBMITTE	D: X	-	×.	
	1m	b-	DRAWN: YT		DATE: NO	VEMBE	R 2022		
THIS WORK V	/ Signi Vas prepare	D BY ME OR UNDER MY	CHECKED: YT		SCALE:	AS S	HOWN		
SUPERVISION WILL BE UNDI CONSTRUCTION	AND CONSTR ER MY OBSEF N AS DEFINED	UCTION OF THIS PROJECT VATION. (OBSERVATION OF) IN CHAPTER 16-115 OF	APPROVED:	Carty Chang			DRA	WING NO.	
COMMERCE	AND CONSU I FNGINFFRS	RULES, DEPARTMENT OF MER AFFAIRS ENTITLED ARCHITECTS, SURVEYORS	CHIEF ENGINEER	E-signed 2022-11-28 04 carty.s.chang@hawaii. State of Hawaii		_	С	-204	
	JOB	NO. E00BH30A		Chief Engineer SHEET NO. 1	5 OF	77	SHEE	TS	

1.	TEMPORARY TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," 2009 EDITION 4 REVISION 1 AND 2 INCORPORATED, DATED MAY 2012, AS AMENDED.
2.	THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS AND OTHER PROTECTIVE FACILITIES IN CONFORMANCE WITH THE HAWAII ADMINISTRATIVE RULES 19-129 "USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREET AND HIGHWAYS".
3.	THE PERMITTEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
4.	CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
5.	TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA IS PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
6.	REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED.
7.	FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE AND HIRE SPECIAL DUTY POLICE OFFICER(S) AS NEEDED TO PROVIDE TRAFFIC CONTROL WHILE WORKING WITHIN THE COUNTY RIGHT OF WAY.
8.	WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITTEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
9.	ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
10.	ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
11.	THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
12.	LANE CLOSURE SHALL BE LIMITED ONLY TO THE EXTENT OF ACCOMPLISHING EACH DAY'S WORK. AS SOON AS EACH DAY'S WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION. EXISTING FADED OR OBLITERATED PAVEMENT MARKINGS THAT ARE NECESSARY FOR SAFE TRAFFIC FLOW IN THE CONSTRUCTION AREA SHALL BE REPLACED WITH TEMPORARY OR PERMANENT MARKINGS BEFORE OPENING THE ROADWAY TO PUBLIC TRAFFIC EACH DAY.
13.	PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL BE REPLACED UPON COMPLETION OF EACH PHASE OF WORK.
14.	CONES AND DELINEATORS SHALL BE SPACED AT A MAXIMUM DISTANCE OF 20 FEET APART. A MINIMUM OF SIX CHANNELIZING DEVICES SHALL BE USED FOR EACH TAPER LENGTH.
15.	DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTY USING THE RIGHT-OF-WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY. FURTHER, THE PERMITTEE SHALL CONTROL TRAFFIC GOING IN AND OUT OF DRIVEWAYS.
16.	BUFFER AND TAPER AREAS ON APPROACH TO ANY WORK AREA SHALL BE KEPT CLEAR OF VEHICLES AND EQUIPMENT.
17.	TRAFFIC CONTROL PLANS ARE APPROVED FOR WORK ON ANY COUNTY STREET AREA BETWEEN THE HOURS OF 8:30 A.M. AND 3:30 P.M. FOR NORMAL WORK HOURS MONDAY THROUGH FRIDAY.
18.	WHERE PAVED SHOULDERS EXIST, MAINTAIN A MINIMUM 36-INCH WIDE CLEAR ACCESSIBLE ROUTE IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES SECTION 4.3.



TYPICAL	TRAFFIC	CONTROL
FOR T	NO-LANE	ROADS

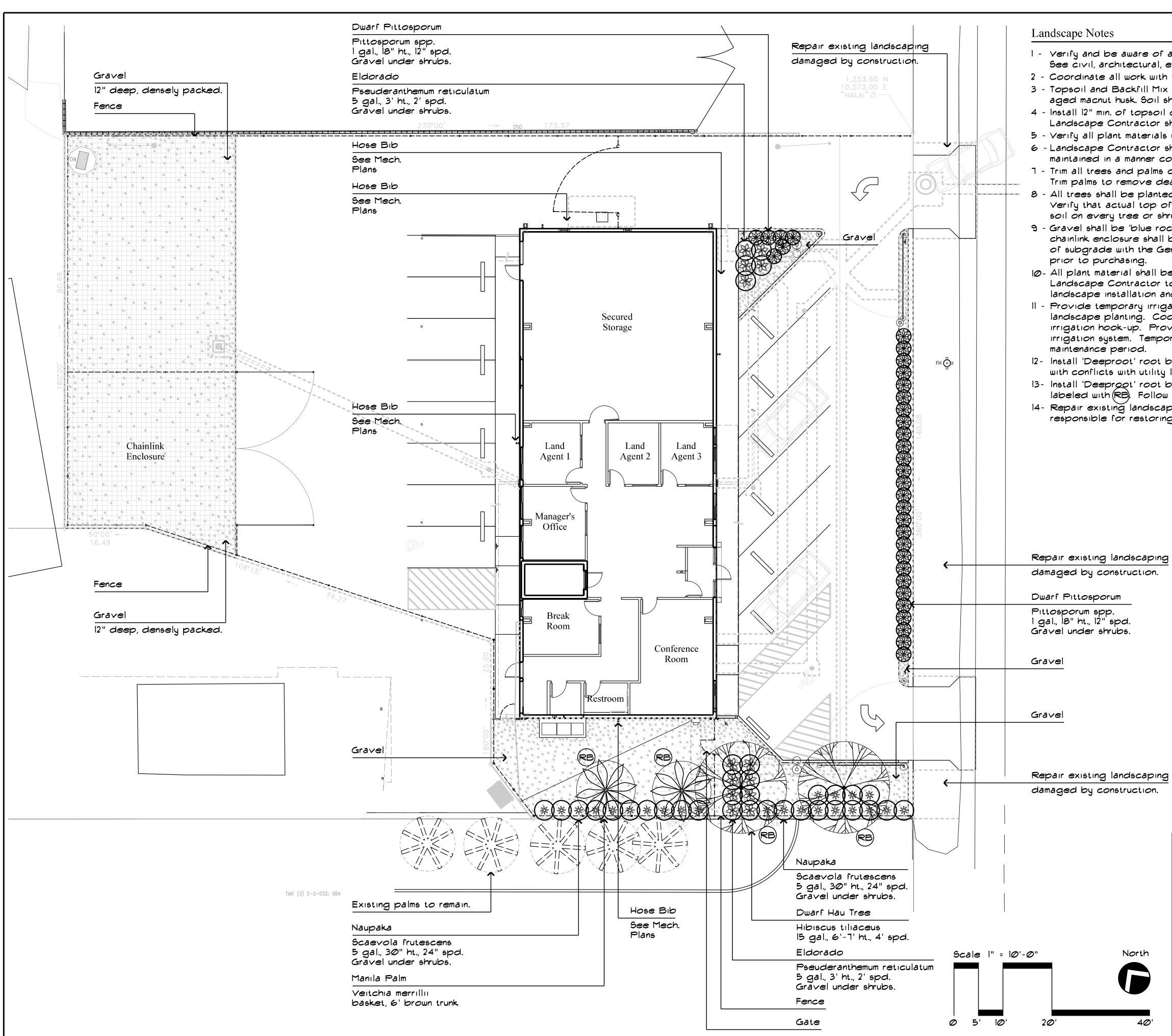
NOT TO SCALE



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TYPE II BARRICADE W/STEADY BURN

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	D	ATE	APPROVED
NE M.			STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
× 1,00	ENGI	SIONAL) ○ NEER)☆	HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I					
T	No. 11 WAII,	44-C . V.S.	TRAFFIC CONTROL PLAN					
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Tr	IIS LICENSE EXPIF	es april 30, 2024	DESIGNED: AA		SUBMITTE): Ø	F	×.
SUPERVISED AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 18-115 OF THE HAWAIL ADMINISTRATIVE RULES, DEPARTMENT OF		h-	DRAWN: YT		DATE: NO	/EMBE	ER 2022	
		CHECKED: YT		SCALE:	AS	SHOW	١	
		APPROVED:	Carty Chang			DRA	WING NO.	
THE HAWAII A COMMERCE PROFESSIONA AND LANDSC	AND DETAILUE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHITECTS, SURVEYORS APE ARCHITECTS).		CHIEF ENGINEER	E-signed 2022-11-28 04 carty.s.chang@hawaii. State of Hawaii		_	С	-300
	JOB	NO. E00BH30A		Chief Engineer SHEET NO. 1	6 OF	77	SHEE	ETS

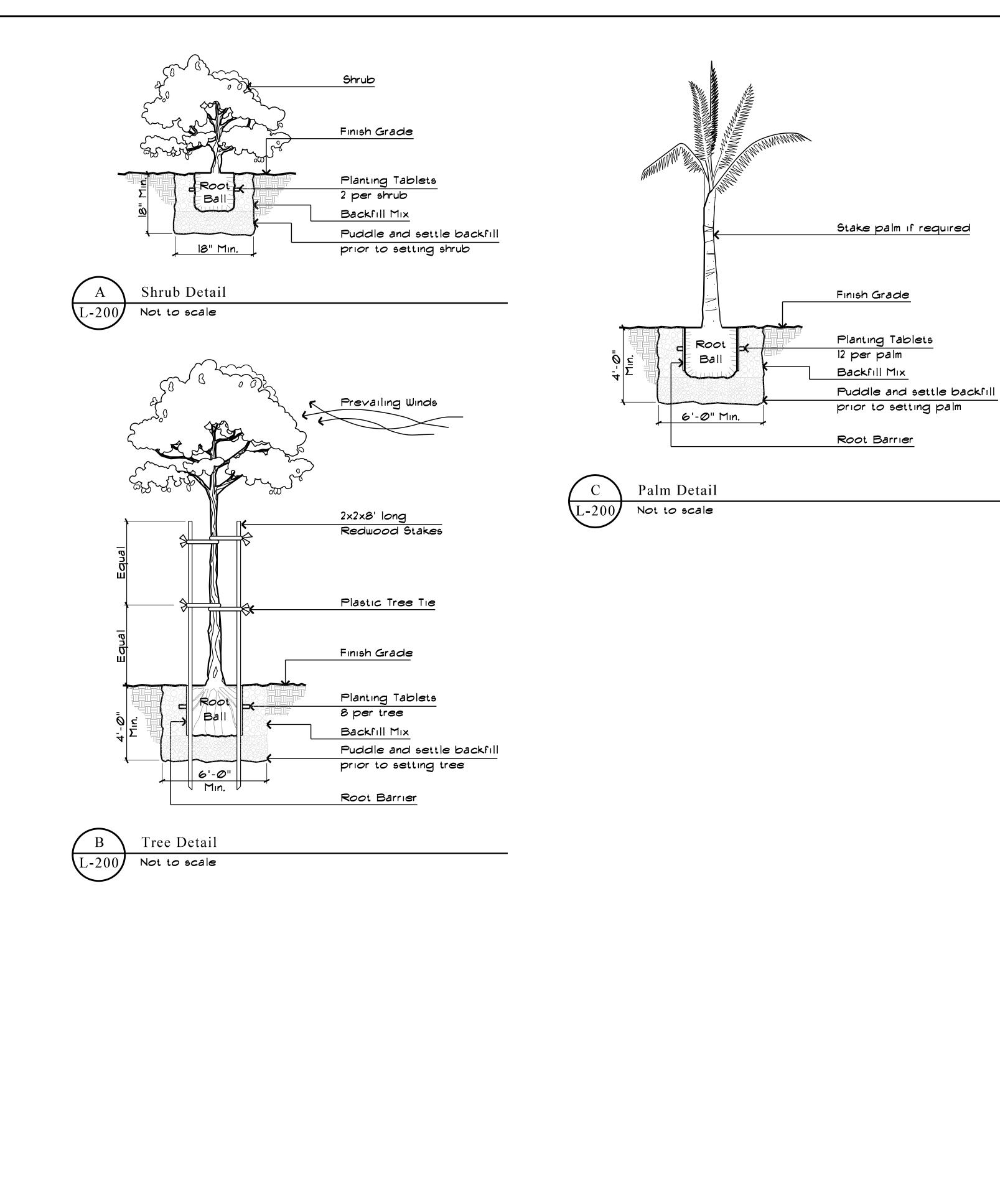


- 1 Verify and be aware of all utilities during all phases of work. See civil, architectural, electrical, and mechanical drawings. 2 - Coordinate all work with the General Contractor.
- 3 Topsoil and Backfill Mix shall be from 'Soil Plus'. 30% black cinder, 40% soil, and 30% well aged macnut husk. Soil shall test at 6.5-6.8 pH. Provide soil pH report.
- 4 Install 12" min. of topsoil over all planting areas (tree and shrub areas).
- Landscape Contractor shall be responsible for grading of subgrade to allow for 12" of topsoil. 5 - Verify all plant materials with the Landscape Architect prior to purchasing.
- 6 Landscape Contractor shall provide for a 120 day maintenance period. Plants shall be maintained in a manner conducive to thier health and growth.
- 7 Trim all trees and palms during construction and during and at the end of the maintenance period. Trim palms to remove dead or broken fronds and fruit during construction.
- 8 All trees shall be planted with top of root balls 1^{-2} above finish grade of surrounding area. Verify that actual top of rootball is where top of roots are attached to trunk, scrape back soil on every tree or shrub to verify before planting.
- 9 Gravel shall be 'blue rock', I" dia., no fines, 6" layer. Gravel within and adjacent to the chainlink enclosure shall be 12" deep, densely packed gravel bed. Coordinate grading of subgrade with the General Contractor. Verify gravel with the Landscape Architect
- 10- All plant material shall be free of Coqui Froq infestation. It is the responsibility of the Landscape Contractor to monitor and remove all Coqui Frogs from the site during the landscape installation and maintenance period.
- II Provide temporary irrigation hook-up and a temporary irrigation system to establish all landscape planting. Coordinate with General Contractor to have a temporary
- irrigation hook-up. Provide a approved backflow prevention device for the temporary irrigation system. Temporary irrigation to be removed at the completion of the formal
- 12- Install 'Deeproot' root barriers or approved equal, 36" height, on all trees or palms with conflicts with utility lines. Follow manufacturer's installation instructions.
- 13- Install 'Deeproot' root barriers or approved equal, 36" height on all trees or palms labeled with (RB). Follow manufacturer installation instructions.
- 14- Repair existing landscaping damaged by construction. Landscape Contractor shall be responsible for restoring right-of-way landscaping to original or better condition.

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REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVE		
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<pre></pre>			ŀ	HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I					
	HAWAII,	U.S.A.	Landscape Plan						
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Ťŀ		ES.APRIL 30, 2024	DESIGNED: KKT		SUBMITTE	D: At	A		
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			CHIEF ENGINEER	State of Hawaii					

SHEET NO. 17 OF 77 SHEETS JOB NO. E00BH30A



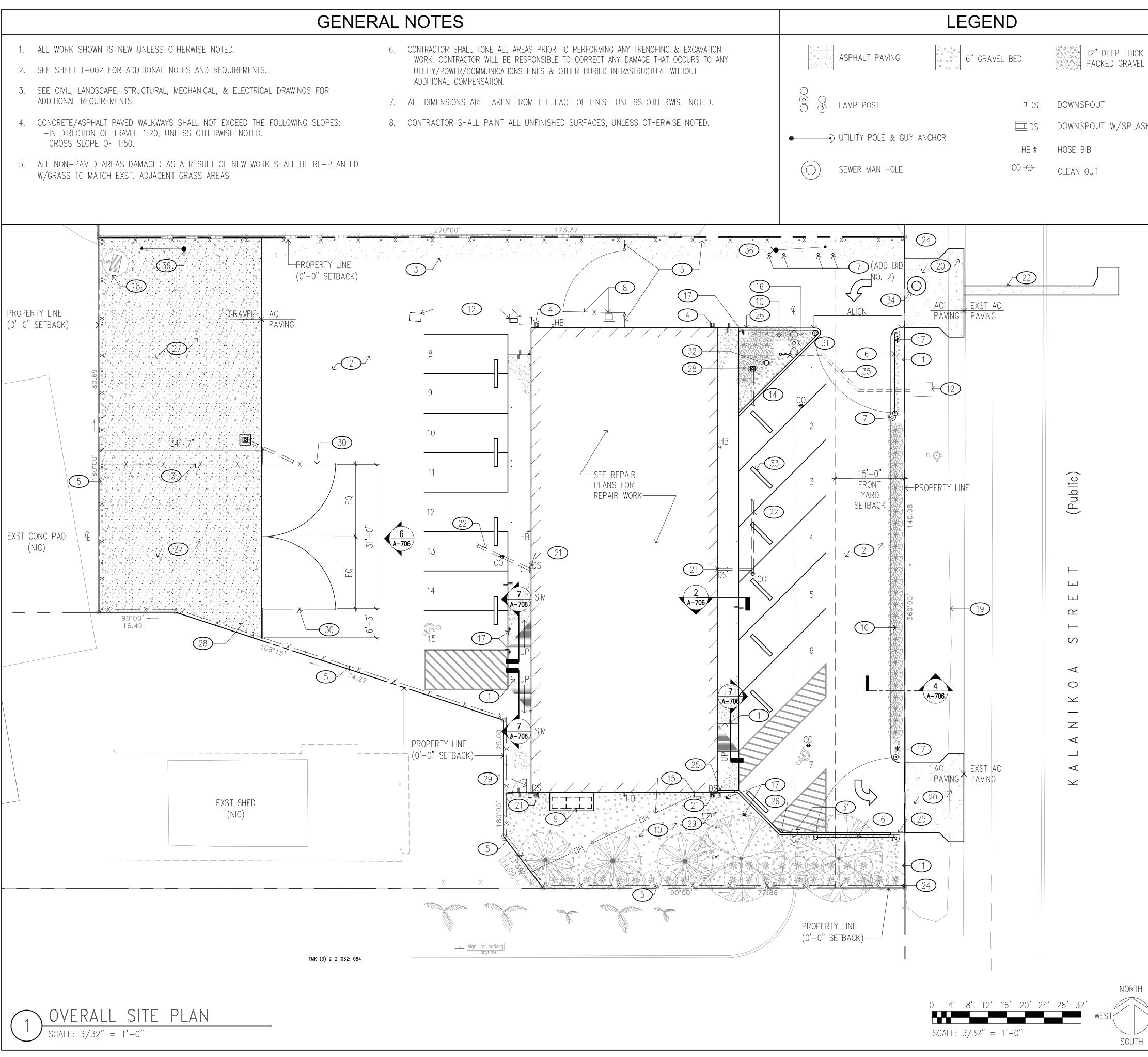
REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED
		TENGAN NSED	DEPARTMEI	STATE OF NT OF LAND AN ENGINEERIN	D NATUI	RAL RESC ON	OURCES
	PROFES	SSIONAL SCAPE ITECT	F	IAWAII DISTRIC HILO, H		OFFICE	
	AWAII	USA		Landscape	e Detai	ls	
	101002/1						
THIS		RES.APRIL 30, 2024	DESIGNED: KKT	:	SUBMITTE	D: At	A
7	te	y-	DRAWN: KKT	1	DATE: NOV	EMBER 2022	, ,
THIS WORK WA	SIGNATURE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF		CHECKED:	:	SCALE: AS	NOTED	
SUPERVISION AN WILL BE UNDER CONSTRUCTION			APPROVED:	Carty Chang		DF	RAWING NO.
THE HAWAII ADM	MINISTRATIVI ND CONSU ENGINEERS	E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS	CHIEF ENGINEER	E-signed 2022-11-28 (carty.s.chang@hawai State of Hawaii		2	-200
	IOB			Chief Engineer SHEET NO 18		77 SHE	FTS

JOB NO. E00BH30A SHEELNO. 18 OF // SHEELS





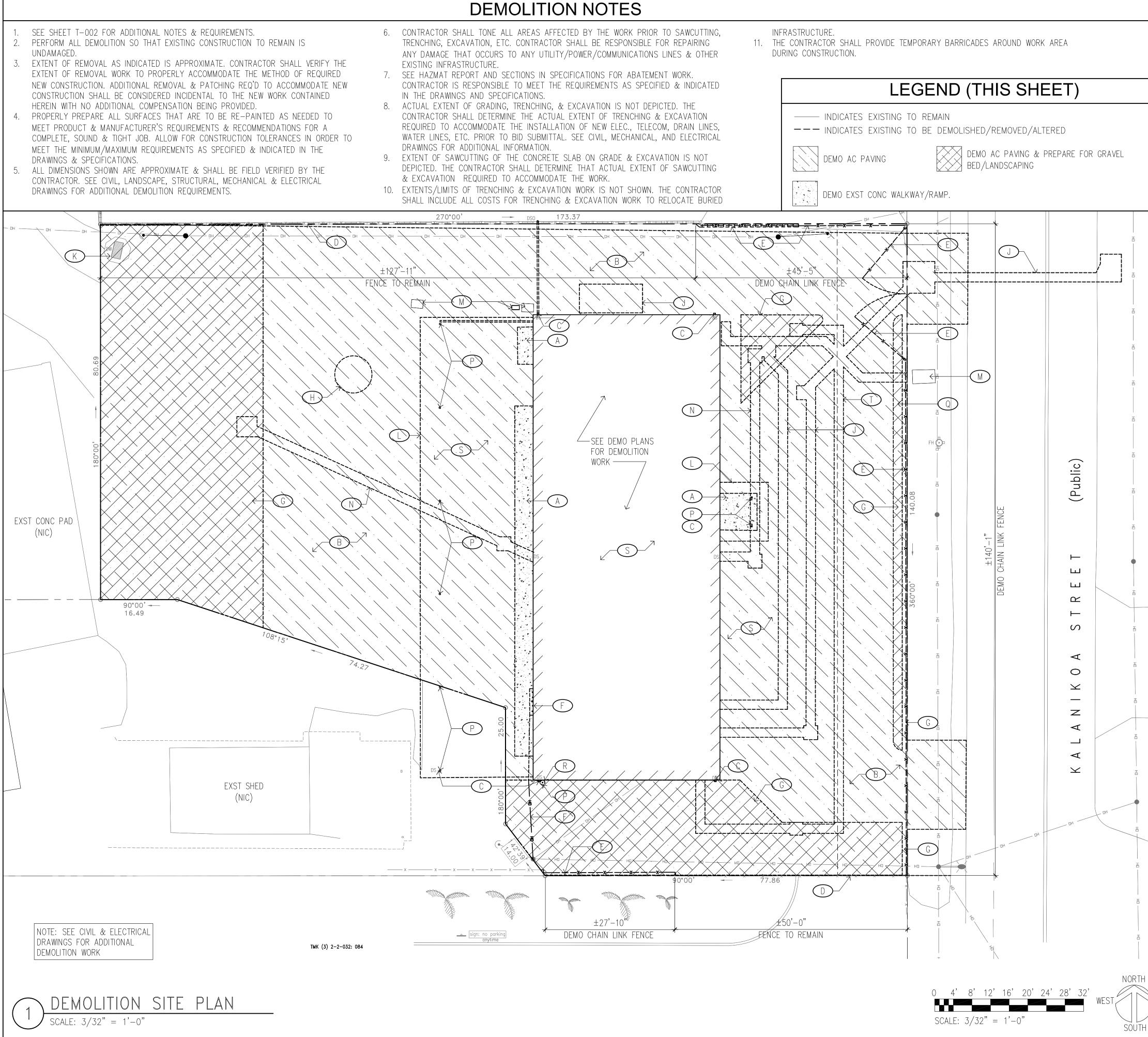
- ADDITIONAL REQUIREMENTS.
- -IN DIRÉCTION OF TRAVEL 1:20, UNLESS OTHERWISE NOTED.
- W/GRASS TO MATCH EXST. ADJACENT GRASS AREAS.
- ADDITIÓNAL CÓMPENSATION.



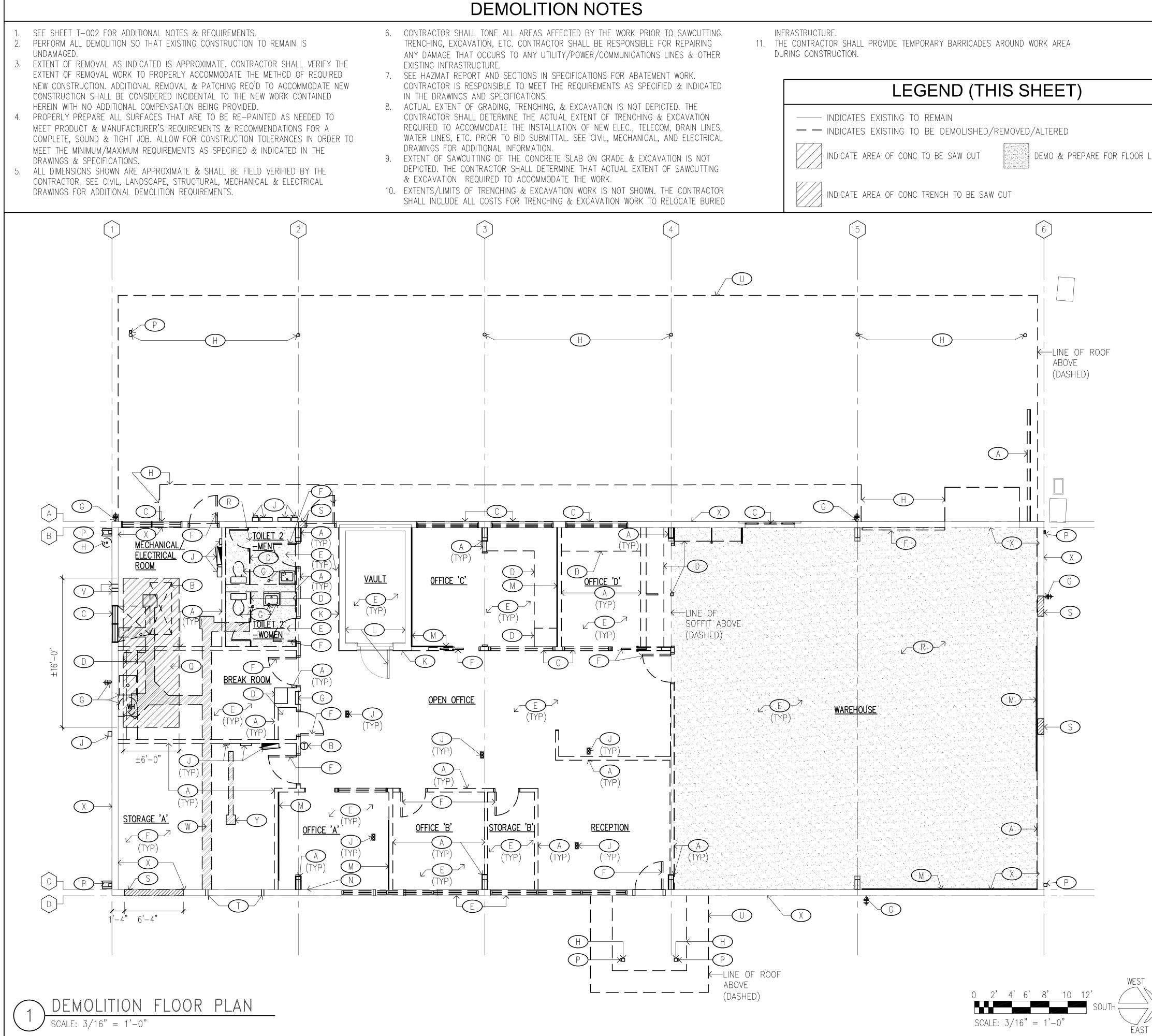
	KEYNOTE NO.	KEYNOTES (T	HIS SHEET)					
<		ONC SIDEWALK. RAMP FOR ADA PARKING STAI	LL ACCESS.					
EL BED	(2)	C PAVING. PAINT PARKING STRIPES AND WHEE	EL STOP, SEE CIVIL DRWG.					
	3	C PAVING SWALE. SEE CIVIL DRWG.						
	4	OWNSPOUT & SPLASH BLOCK.						
SH BLOCK	5	8'-0" H CHAIN LINK FENCE.						
	6	IPE GATE W/ RECEIVING POSTS.						
	$\overline{7}$	OLLARD, SEE CIVIL DRWG.						
	8	ATE OPERATOR PAD FOR 8'-0" H ELECTRONIC ADLOCK & MAGLOCK.	C GATE W/ GATE WHEEL, WELDED CHAINS,					
	9	ONC MECHANICAL EQUIPMENT PAD FOR ACCU,	SEE MECH DRWG.					
		ANDSCAPED AREA, SEE LAND DRWG.						
		RM WALL.						
	(12)	XISTING HANDHOLE TO REMAIN.						
	(13)	'-0" H CHAIN-LINK FENCE ENCLOSURE.						
	(14)	ELOCATED BACKFLOW PREVENTOR, SEE CIVIL E	DRWG.					
	(15)	LECTRICAL METER & OVERHEAD POWER LINE,	SEE ELEC DRWG.					
	$\underbrace{)}{16}$	" DEEP GRAVEL BED. SEE CIVIL & LAND DRWC	5.					
	(17)	ITE SIGNAGE, SEE CIVIL DRWG.						
	$\underbrace{(18)}$	XIST DRYWELL, SEE CIVIL DRWG FOR WORK INS	SIDE DRYWELL.					
	$\underbrace{)}{19}$	DGE OF EXISTING ROAD, SEE CIVIL DRWG.						
	$\underbrace{)}{20}$	C PAVED DRIVEWAY. SEE CIVIL DRWG.						
	(21)	OWNSPOUT.						
	$\underbrace{)}{(22)}$	NDERGROUND DRAIN TO LANDSCAPING, SEE CI	VIL DRWG.					
	(23)	ATCH & REPAIR EXST STREET. SEE CIVIL DRW	G.					
	(24)	ND 8'-0" HIGH CHAIN LINK FENCE.						
	(25)	ONC CURB CUT. SEE CIVIL DRWG.						
	$\underbrace{26}$	ONC CURB. SEE CIVIL DRWG.						
	(27)	2" DEEP GRAVEL BED, SEE CIVIL & LAND DRW	IG.					
	28	OWNSPOUT OVERFLOW STRUCTURE.						
	29	'-0" HIGH x 3'-4" WIDE CHAIN LINK PEDESTR	IAN GATE W/ U-LATCH & PADLOCK.					
	30	'–0" HIGH CHAIN LINK ENCLOSURE W/ GATE N ADLOCK.	WHEELS, STRONG ARM LATCH &					
	31	XTERIOR LAMP POST, SEE ELEC DRWG.						
	32	ALVE BOX, SEE CIVIL DRWG.						
. 0	33	RE-CAST CONC WHEEL STOP, TYP.						
sign: 1 no parking anytime	34	RE-CAST SHALLOW DROP MANHOLE.						
	35	ONC JACKET BLW.						
	36	XST UTILITY POLE & GUY WIRE TO REMAIN.						
	REVISION							
	NO.	YM. DESCRIPTION	SHT./OF DATE APPROVED TATE OF HAWAII					
		DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION						
	*	ARCHITECT No. 10192 HILO, HAWAI'I OVERALL SITE PLAN						
I	This L	E EXPIRES APRIL 30, 2024 DESIGNED: KK	SUBMITTED:					
+	Fren	R.E. DRAWN: KA, TW, WL	DATE: FEBRUARY 2021					
EAST		CHECKED: FE CONSTRUCTION OF THIS PROJECT OBSERVATION (OBSERVATION OF DEFINED IN CHAPTER 16–115 OF CHECKED: FE APPROVED: Carty Ch	+					
	IHE HAWAII A COMMERCE PROFESSIONAI AND LANDSC		A-001					

JOB NO. E00BH30A

SHEETNO. 19 OF 77 SHEETS

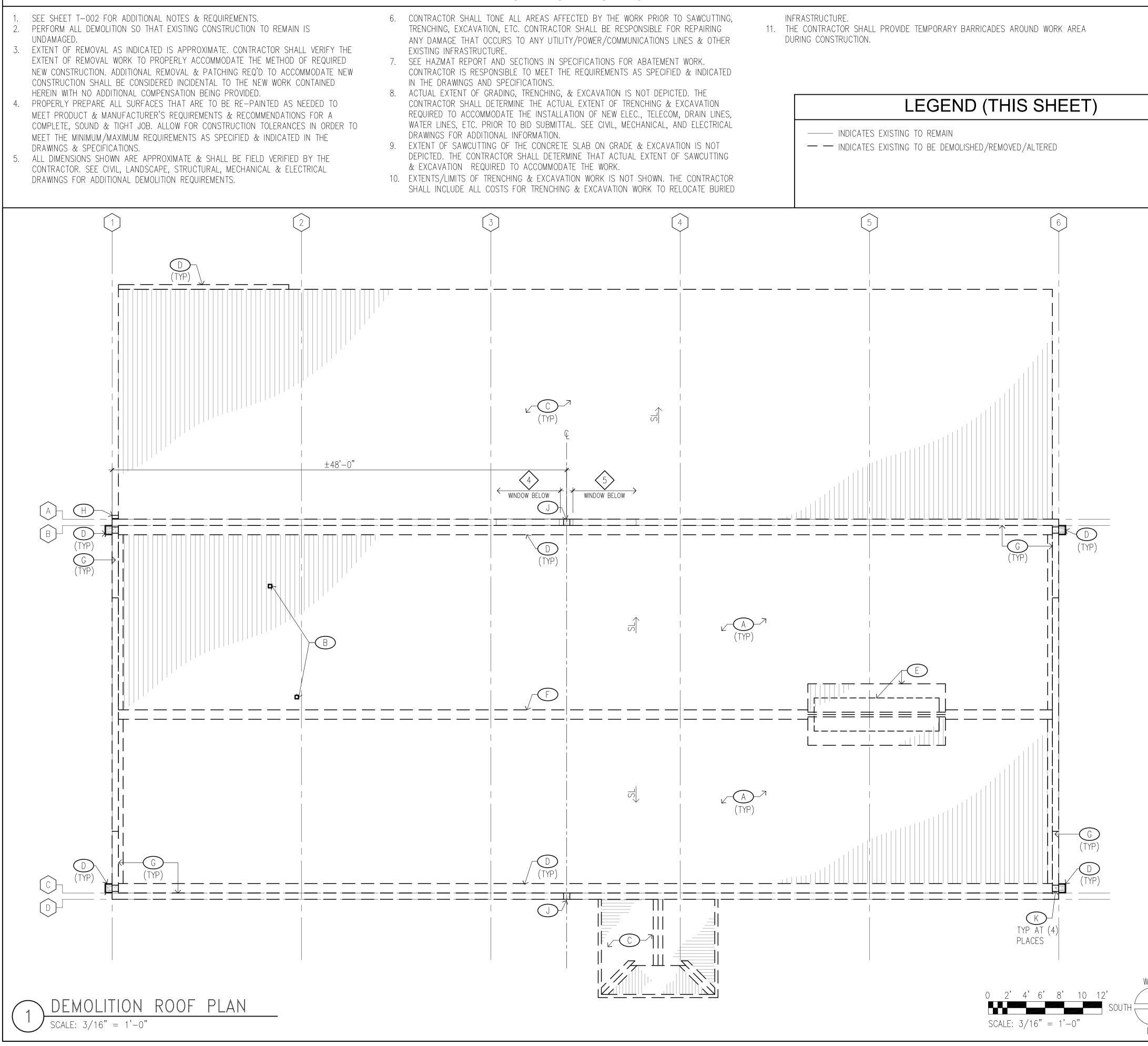


	KEYNOTE NO.	KEYNOT	ES (THIS S	SHEET)	
	A	DEMO SIDEWALK, RAMP, & PAD CO	MPLETE.			
	B	DEMO AC PAVING & AGGREGATE, S	EE CIVIL DRWGS.			
		DEMO DOWNSPOUT, SPLASH BLOCK	& DRAIN PIPE BELOW	GRADE.		
		CHAIN-LINK FENCE & CMU WALL T	O REMAIN.			
	E	SELECT DEMO & REMOVE CHAIN-LI LINE.	NK FENCE, GATE & CMI	u wall with	IN PROP	ERTY
	F	DEMO ELEC EQUIPMENT & OVERHEA HELCO AS REQ.	AD POWER LINE, SEE EL	EC DRWG. CO	DORDINA	TE W/
	G	PREP AREA FOR GRAVEL BED, LAN DRWG.	DSCAPING & LOW ROCK	WALL. SEE	CIVIL &	LAND
	H	DEDUCTIVE BID NO. 1 — APPROXIM BACKFILL CESSPOOL. CAP SEWER L SEE CIVIL DRWG.				
		TRENCH AS REQ'D FOR SEWER & V	ATER CONNECTION. SEE	e civil and	MECH DF	RWG.
	K	REMOVE DEBRIS WITHIN & AROUND OPERABLE, SEE CIVIL DRWG. IF INO			′DRY WI	ELL IS
		LINE OF ROOF ABOVE.				
	M	HANDHOLE TO REMAIN.				
		TRENCH AS REQ'D FOR DOWNSPOU	I DRAINAGE. SEE CIVIL	DRWG.		
	P	DEMO METAL POST & FOOTING COM	IPLETE, TYP.			
		REMOVE & SALVAGE BACKFLOW PR	EVENTER. SEE CIVIL DR	WG.		
	\bigcirc	DEMO METAL WIRE PROTRUDING WA	LL.			
	\bigcirc	PROVIDE TERMITE TREATMENT TO S	ITE AND BUILDING, SEE	SPECIFICATIO	ONS.	
		TRENCH AS REQ'D FOR SITE LIGHTI	NG. SEE CIVIL AND ELE	C DRWG.		
n:						
parking ytime						
	REVISION					
	NO.	SYM. DESCRIPTI	^{on} STATE OF H		DATE	APPROVED
		DEPART	MENT OF LAND AND ENGINEERING) NATURAL	RESOL	JRCES
			HAWAII DISTRICT	LAND OFF	ICE	
	(⊥ (★	ARCHITECT	HILO, HA			
		HANNAII, U.S.	DEMOLITION	SITE PLAN		
	THIS LI				~	
	Fred	UK. Eight DESIGNED: Kł DRAWN: KA, T		UBMITTED: ATE: NOVEMBI	∂≮ ER 2022	a_
AST	THIS WORK V SUPERVISION WILL BE UND	SIGNATURE VAS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT ER MY OBSERVATION. (OBSERVATION OF APPROVED:	Carty Chang	CALE: AS NOT	1	WING NO.
	COMMERCE	N AS DEFINED IN CHAPTER 16-115 OF DMINISTRATURE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHITECTS, SURVEYORS APE ARCHITECTS).	E-signed 2022-11-28 04 carty.s.chang@hawaii.	gov 🥂 🖊 .		100
	<u> </u>	CHIEF ENGINI	ER State of Hawaii	OF 77	SHEE	



	KEYNOTE NO.	KEYNOTES (THIS SHEET)	
	A	DEMOLISH FULL HEIGHT INTERIOR PARTITIONS COMPLETE & GYP BD FURRING AROUND COLUMNS. PATCH/REPAIR ADJACENT FLOORS & WALLS TO REMAIN. GYP BD MAY CONTAIN FIBERGLASS, CONTRACTOR USE CAUTION DURING REMOVAL & HANDLING. GYP BD JOINT COMPOUND, TEXTURE, & PAINT MAY CONTAIN ASBESTOS & LEAD, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
	B	DEMOLISH AIR CONDITIONING UNIT & CONNECTIONS. SEE MECHANICAL DRAWINGS. FOIL WRAP INSULATION & BLACK VIBRATION CLOTH MAY CONTAIN FIBERGLASS, CONTRACTOR USE CAUTION DURING REMOVAL & HANDLING. PAINT ON METAL PIPES MAY CONTAIN LEAD, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
_EVELING	\bigcirc	REMOVE WINDOW/LOUVER SYSTEM COMPLETE & PREPARE OPENING FOR NEW WINDOW INSTALLATION. PAINT ON WINDOW FRAME MAY CONTAIN LEAD, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
		DEMOLISH BUILT-IN CABINETRY/STORAGE, RESTROOM PARTITIONS, & RESTROOM ACCESSORIES IN ENTIRETY.	
	Ē	REMOVE FLOOR TILE & WALL BASE THROUGHOUT. LEVEL & PREP FLOOR SURFACE FOR NEW FLOOR FINISH PER MANUFACTURER'S INSTRUCTIONS. FLOOR TILE & MASTIC UNDER WALL BASE MAY CONTAIN ASBESTOS, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
	F	DEMOLISH DOOR LEAF, DOOR HARDWARE, & DOOR FRAME COMPLETE. PAINT ON DOORS & DOOR FRAMES MAY CONTAIN LEAD, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
	G	DEMOLISH ALL PLUMBING FIXTURES, WATER HEATER, HOSE BIB, & FLOOR DRAIN/CLEAN OUT. PATCH & REPAIR ADJACENT FLOORS & WALLS TO REMAIN. SINK INSULATION MAY CONTAIN ASBESTOS, ABATE PER HAZMAT REPORT IN SPECIFICATIONS. SEE MECH DRWG.	
	H	DEMOLISH CONCRETE SIDEWALK, PAD, RAMP, METAL POST, & FOOTING COMPLETE.	
		DISCONNECT & REMOVE ELECTRICAL PANELS, CONDUITS, RECEPTACLES, SWITCHES, & FIXTURES. PATCH & REPAIR ADJACENT FLOORS & WALLS TO REMAIN. LIGHT INSULATION MAY CONTAIN FIBERGLASS, CONTRACTOR USE CAUTION DURING REMOVAL & HANDLING. PAINT ON ELECTRICAL PANELS & DEVICES MAY CONTAIN LEAD, ABATE PER HAZMAT REPORT IN SPECIFICATIONS. SEE ELEC DRWG.	
	K	DEMOLISH WALL COVERING & ADHESIVE COMPLETE. PREPARE WALL SURFACE ON WALLS TO REMAIN FOR NEW FINISH.	
		VAULT WALLS & DOOR TO REMAIN.	
	M	DEMOLISH CORKBOARD/CHALKBOARD, & ADHESIVE COMPLETE. CORKBOARD & MASTIC MAY CONTAIN ARSENIC, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
		PATCH & REPAIR PENETRATIONS & CRACKS IN PERIMETER WALL. SEE STRUCT DRWG & SPECIFICATIONS.	
	P	DEMOLISH DOWNSPOUT, INTERNAL GUTTER, & SPLASH BLOCK.	
		CUT & DEMO PORTION OF CONC SLAB FOR NEW DEPRESSED SLAB. SEE STRUCT DRWG.	
	\bigcirc	CONTRACTOR SHALL PREPARE FLOOR TO BE SEALED & LEVELED AS REQUIRED.	
	S	CUT & DEMO CMU WALL FOR NEW WINDOW/LOUVER OPENING. SEE STRUCT DRWG.	
		CORE CONC WALL FOOTING FOR PLUMBING POC. SEE CIVIL, MECH & STRUCT DRWG.	
	(\cup)	DEMOLISH CARPORT & ENTRY CANOPY COMPLETE.	
	\lor	CORE CONC WALL FOR REFRIGERANT PIPING. AT $\pm 9'-0$ " AFF. APPROXIMATELY 5" ϕ FOR GAS LINE AND $4-1/2$ " ϕ FOR LIQUID LINE. SEE MECH & STRUCT DRWG.	
	(W)	SAWCUT, EXCAVATE, & TRENCH CONC SLAB FOR NEW PLUMBING. SEE MECH DRWG.	
	\overline{X}	REMOVE PAINT FROM CMU WALL SURFACE. PREP SURFACE TO RECEIVE NEW SEALER (INTERIOR) AND NEW PAINT (EXTERIOR).	
	Ŷ	SAWCUT, EXCAVATE, & TRENCH CONC SLAB FOR NEW FLOOR OUTLET. SEE ELEC DRWG.	
	REVISION NO.	SYM. DESCRIPTION SHT./OF DATE APPROVE	D
		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES	
	F R F	LICENSED PROFESSIONAL	
	*	ARCHITECT HILO, HAWAI'I No. 10192	
		<u>1411, U. 3</u>	
	THIS LI	CENSE EXPIRES APRIL 30, 2024DESIGNED: KKSUBMITTED:J.K. EDRAWN: KA, TW, WLDATE: NOVEMBER 2022	
NORTH	SUPERVISION	SIGNATURE AS PREPARED BY ME OR UNDER MY AND CONSTRUCTION. OF THIS PROJECT	
	WILL BE UNDE CONSTRUCTION THE HAWAII AI COMMERCE PROFESSIONAL	CR MY OBSERVATION. (OBSERVATION OF ASD PROVED: Carty Chang DRAWING NO. AS DEFINED IN CHAPTER 16-115 OF DMINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED ENGINEERS, ARCHTECTS, SURVEYORS	
		APE ARCHITECTS). CHIEF ENGINEER Carty.s.chang@hawaii.gov AFTUT OB NO. E00BH30A SHEEChief Engineer 21 OF 77 SHEETS	





DEMOLITION NOTES

	KEYNOTE NO.	KEYNOTES (THIS SHEET)	
	A	EMOLISH CORRUGATED ROOF COMPLETE. STRUCT FRAMING BELOW TO REMAIN. SEE	
	B	EMOLISH VTR, SEE MECH DRWG.	
	\bigcirc	DEMOLISH CARPORT & ENTRY CANOPY COMPLETE. PATCH & REPAIR EXT WALL TO REMAIN.	
		EMOLISH INTERNAL GUTTER, SCUPPER, FLASHING LEADER BOX, & DOWNSPOUT COMPLETE. PATCH & REPAIR ADJACENT STRUCTURE AND WALL TO REMAIN. PAINT MAY CONTAIN LEAD, ABATE PER HAZMAT REPORT IN SPECIFICATIONS.	
	Ē	EMOLISH CLEARSTORY & WOOD FRAMING COMPLETE. PATCH & REPAIR STRUCTURE BELOW TO REMAIN.	
	F	EMOLISH ROOF RIDGE COMPLETE. PATCH & REPAIR STRUCTURE BELOW TO REMAIN.	
	G	DEMOLISH PARAPET WALL CAP & FLASHING COMPLETE, PARAPET WALL TO REMAIN. TLASHING ON PARAPET WALL MAY CONTAIN ASBESTOS, ABATE PER HAZMAT REPORT IN TPECIFICATIONS.	
	H	EMOLISH ELEC POC, SEE ELEC DRWG.	
		CUT PORTION OF CMU PARAPET WALL FOR NEW SCUPPER. COORDINATE WITH V INDOWS 4 & 5 BELOW ON GRIDLINE A.	
	K	CUT PORTION OF CMU PARAPET WALL FOR NEW SCUPPER.	
	REVISION NO.	SYM. DESCRIPTION SHT./OF DATE APPROVED	D
		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
		HAWAII DISTRICT LAND OFFICE	_
	*	No. 10192	_
	THIS LI	DESIGNED: KK SUBMITTED:	
	HIS WORK W	K.E. DRAWN: KA, TW, WL DATE: NOVEMBER 2022 SIGNATURE CHECKED: FE SCALE: AS NOTED	_
ORTH	SUPERVISION WILL BE UND CONSTRUCTION THE HAWAII A COMMERCE PROFESSIONAI AND LANDSCA	PREPARED BY ME OR UNDER MY CONSTRUCTION OF THIS PROJECT DEFINED IN CHAPTER 16-115 OF CONSUMER AFFAIRS ENTITLED GINEERS, ARCHITECTS, SURVEYORS Carty Chang DRAWING NO. APPROVED: Carty Chang E-signed 2022-11-28 04:17PM HST DRAWING NO. CHIEF ENGINEER Carty.s.chang@hawaii.gov A-102	_
	JC	NO. E00BH30A SHEET NO. 22 OF 77 SHEETS	

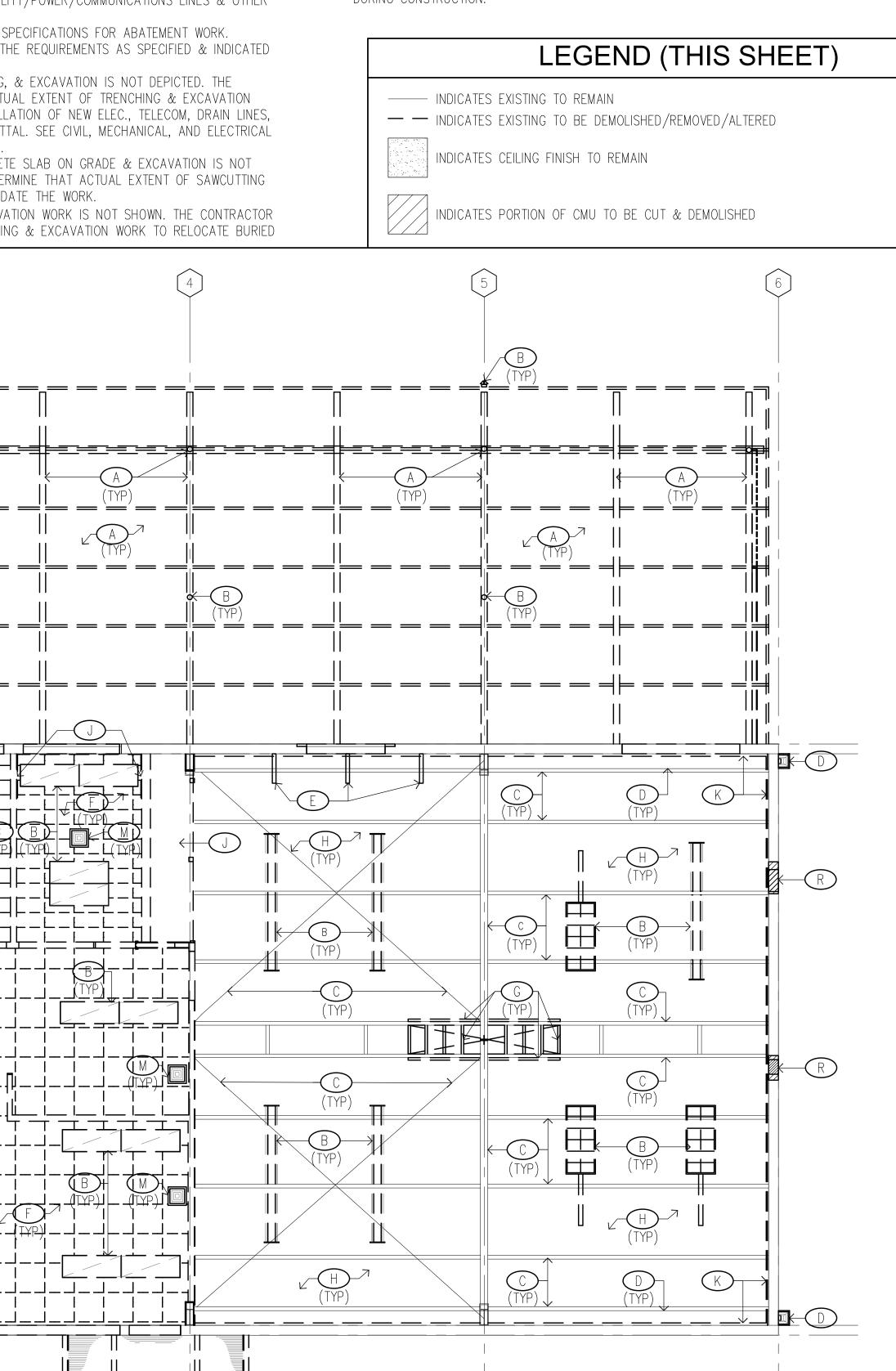


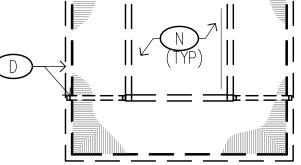
6. CONTRACTOR SHALL TONE ALL AREAS AFFECTED BY THE WORK PRIOR TO SAWCUTTING, TRENCHING, EXCAVATION, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE THAT OCCURS TO ANY UTILITY/POWER/COMMUNICATIONS LINES & OTHER

- 7. SEE HAZMAT REPORT AND SECTIONS IN SPECIFICATIONS FOR ABATEMENT WORK. CONTRACTOR IS RESPONSIBLE TO MEET THE REQUIREMENTS AS SPECIFIED & INDICATED
- 8. ACTUAL EXTENT OF GRADING, TRENCHING, & EXCAVATION IS NOT DEPICTED. THE CONTRACTOR SHALL DETERMINE THE ACTUAL EXTENT OF TRENCHING & EXCAVATION REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW ELEC., TELECOM, DRAIN LINES, WATER LINES, ETC. PRIOR TO BID SUBMITTAL. SEE CIVIL, MECHANICAL, AND ELECTRICAL
- 9. EXTENT OF SAWCUTTING OF THE CONCRETE SLAB ON GRADE & EXCAVATION IS NOT DEPICTED. THE CONTRACTOR SHALL DETERMINE THAT ACTUAL EXTENT OF SAWCUTTING
- 10. EXTENTS/LIMITS OF TRENCHING & EXCAVATION WORK IS NOT SHOWN. THE CONTRACTOR SHALL INCLUDE ALL COSTS FOR TRENCHING & EXCAVATION WORK TO RELOCATE BURIED

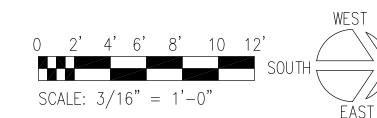
INFRASTRUCTURE.

11. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AROUND WORK AREA DURING CONSTRUCTION.

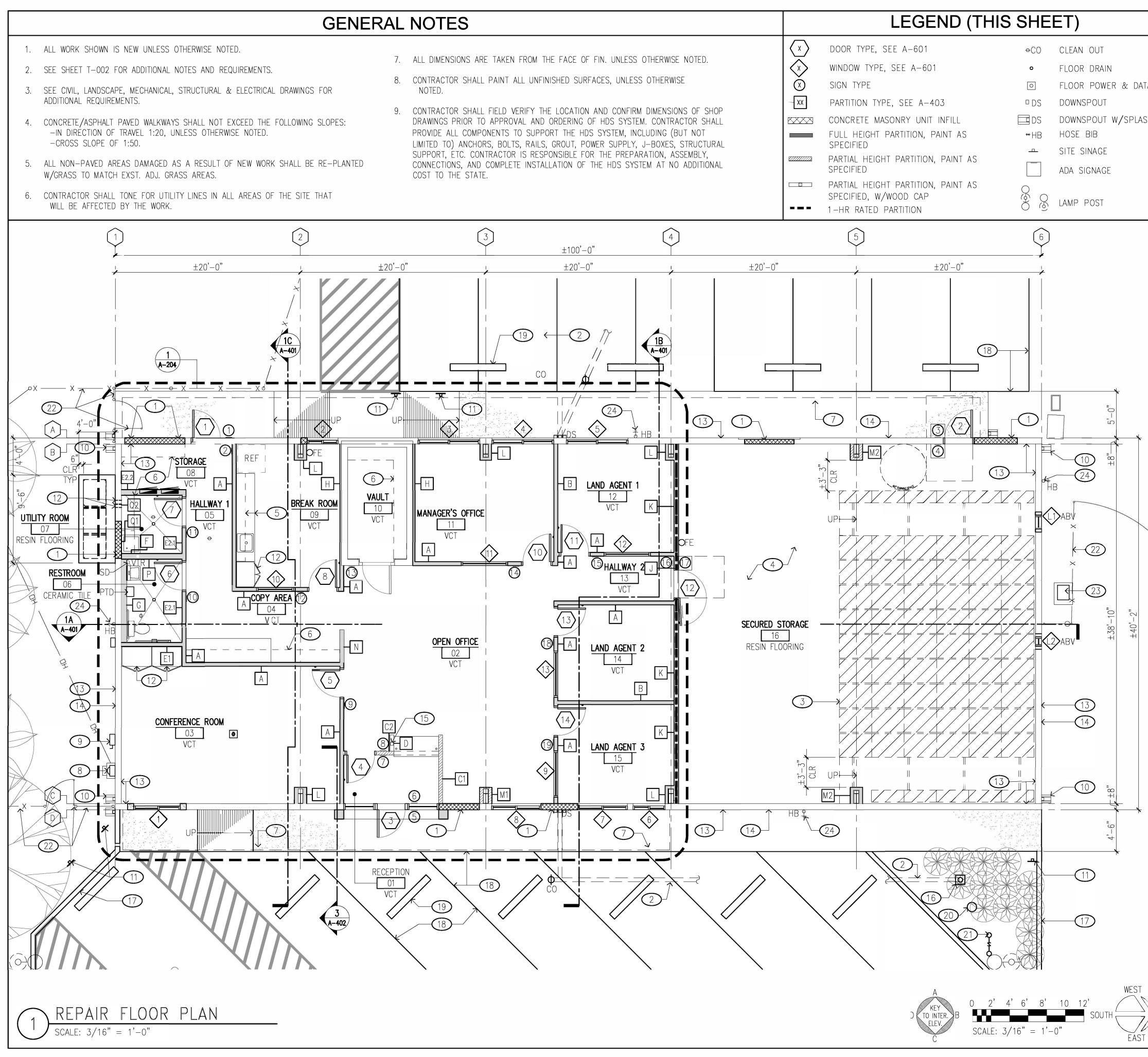




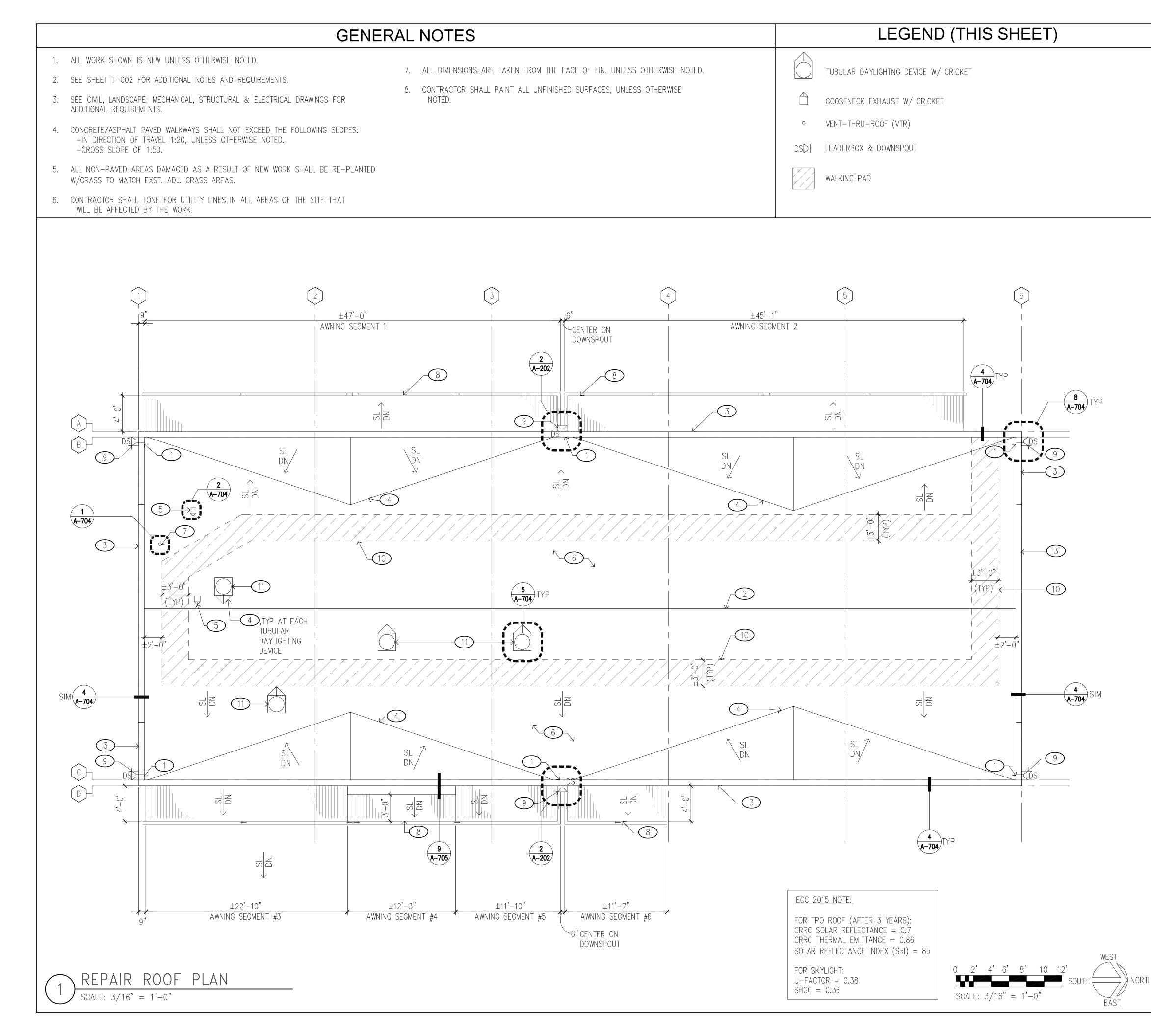
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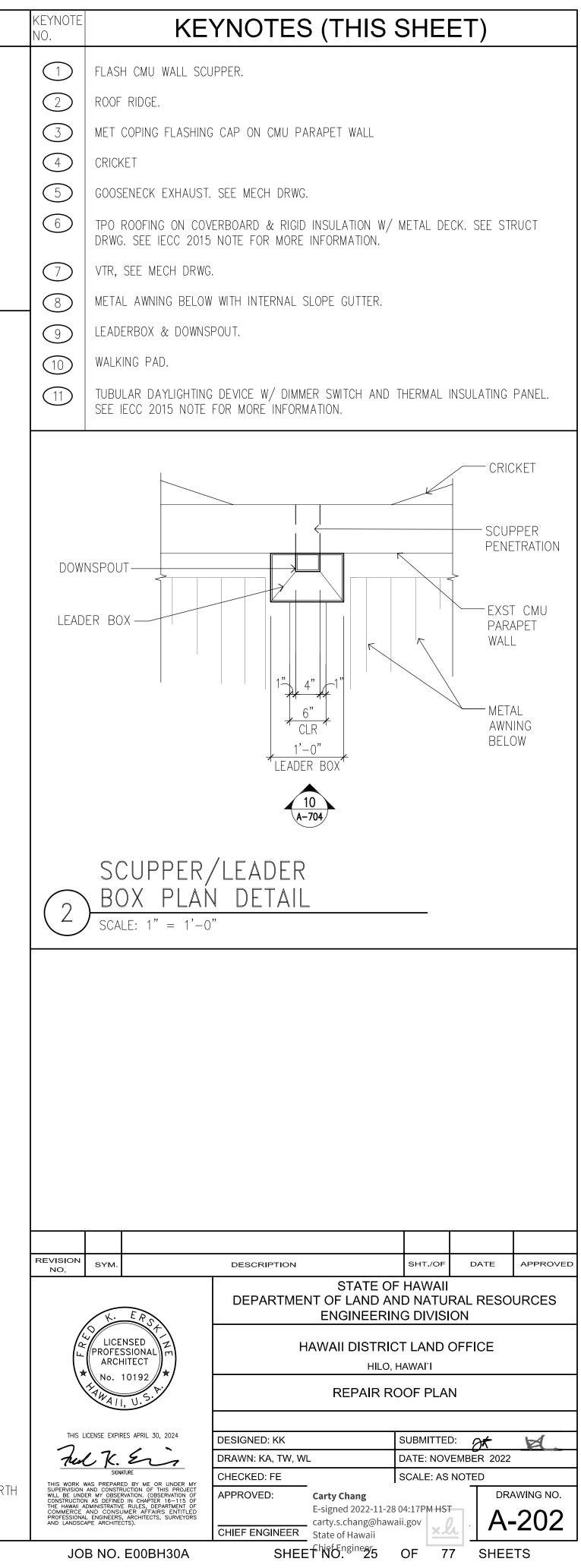


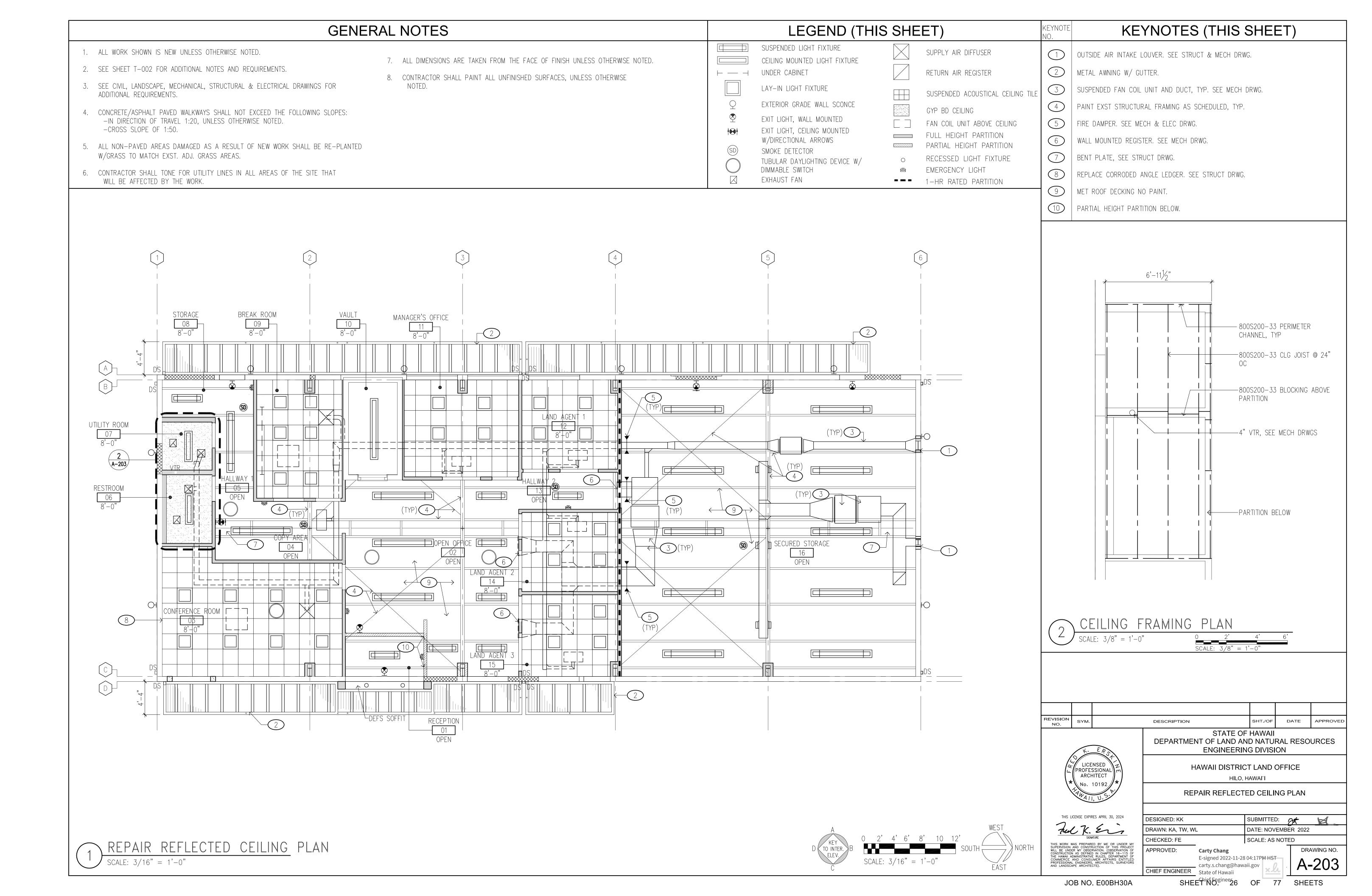
	KEYNOTE NO.	KE	YNOTES (T	HIS S	HE	ET)	
	A	COMPLETE. PATCH &	ORRUGATED ROOF, STRUG REPAIR ADJACENT EXTER AIN LEAD, ABATE PER H	NAL WALL T	O REMA	IN. PAINT O	n framing
	B	STRUCTURAL FRAMING FIBERGLASS, CONTRAC	IRE & ASSOCIATED COND & CEILING TO REMAIN. I TOR USE CAUTION DURIN RY, ABATE PER HAZMAT	LIGHT INSUL	ation m & hani	AY CONTAIN DLING. LIGHT	FIXTURE
	\bigcirc		T ON ALL STRUCT FRAMI FACE TO RECEIVE NEW P				
		DEMOLISH INTERNAL G	E PER HAZMAT REPORT IN SUTTER, DOWNSPOUT, & L & LEADER BOX MAY CO	EADER BOX	COMPLE	ETE. PAINT (N
	Ē	IN SPECIFICATIONS.	. PATCH & REPAIR ADJA	CENT WALL	TO DEM	A 1N1	
			E, ACCESS PANELS/OPEN				MAY
	G	CONTAIN ASBESTOS, A	ABATE PER HAZMAT REPO)RT IN SPEC	CIFICATIO	NS.	
			TRUCT FRAMING, AS REQU				5 10
	(H)		D ROOF THROUGHOUT. R	,			
	J	REMAIN. GYP BD MAY REMOVAL & HANDLING	FIT & TRIM. PATCH & R CONTAIN FIBERGLASS, C G. GYP BD JOINT COMPOU BATE PER HAZMAT REPO	ONTRACTOR IND, TEXTUR	USE CA E, & PA	UTION DURIN	NG
	K	DEMOLISH 2X AROUND	PERIMETER OF WAREHOU	JSE.			
		DEMOLISH DOOR BELL	SPEAKER. SEE ELEC DRV	VG.			
	M	DEMOLISH CEILING MO THE CEILING. SEE MEC	JNTED REGISTERS/DEVICE CH & ELEC DRWG.	S, & DUCT/	CONDUI	T CONNECTIO	ONS ABOVE
	\mathbb{N}		OPY & SUPPORT COMPLE ONTAIN LEAD, ABATE PE				
	P	DEMOLISH SHELVING &	c CLOSET ROD.				
		VAULT CEILING & WAL	LS TO REMAIN.				
	R	CUT & DEMO CMU WA	LL FOR WINDOW/LOUVER	OPENING. S	EE STRU	JCT DWRG.	
	S	CORE 5" DIAMETER PE HEIGHT. SEE MECH DR	ENETRATION FOR REFRIGE	RANT GAS L	INE AT	±9'-0" CEII	ING
		CORE 4–1/2" DIAMETI HEIGHT. SEE MECH DR	ER PENETRATION FOR REI 2WG.	FRIGERANT L	lquid li	NE ±9'-0"	CEILING
	U		ANGLE LEDGER NOTIFY TI AL MEMBERS ABOVE THE				
	DEVISION						
	REVISION NO.	SYM.		TATE OF H		DATE	APPROVED
		K. ERSS	DEPARTMENT OF	LAND AND			URCES
		LICENSED PROFESSIONAL ARCHITECT	HAWAII	DISTRICT HILO, HA		OFFICE	
		No. 10192	DEMOLITION	N REFLEC	FED CE	ILING PLA	N
	THIS LI	CENSE EXPIRES APRIL 30, 2024	DESIGNED: KK		UBMITTE		×.
	ter	SIGNATURE	DRAWN: KA, TW, WL CHECKED: FE		ATE: NOV CALE: AS	EMBER 2022 NOTED	
RTH		IAS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT RF MY OBSERVATION. (OBSERVATION OF I AS DEFINED IN CHAPTER 16-115 OF DMINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHTECTS, SURVEYORS		hang d 2022-11-28 04	:17PM HST	DR/	
	AND LANDSCA	DB NO. E00BH30A	CHIEF ENGINEER CHIEF ENGINEER State of SHEET			77 SHEI	-103

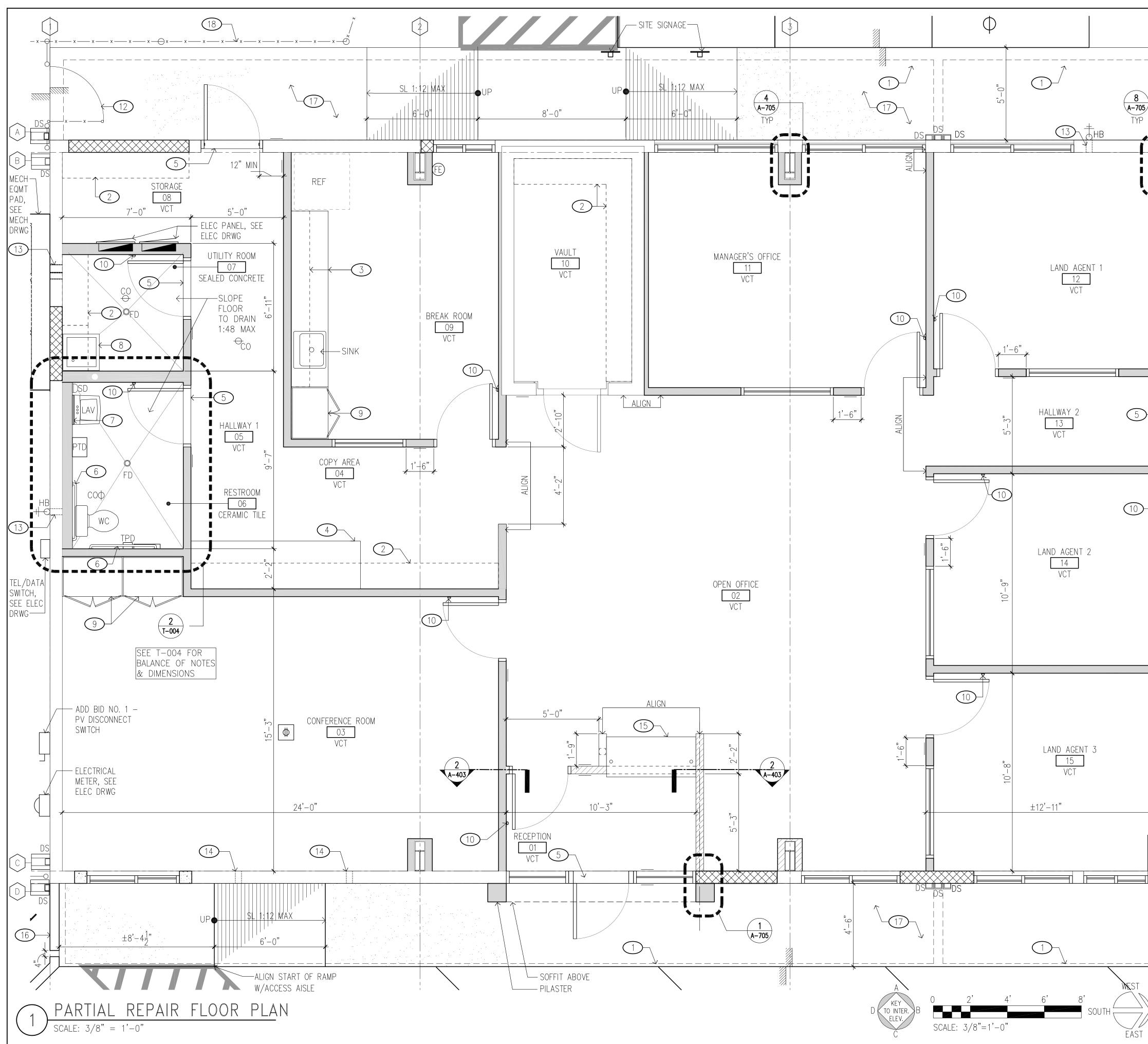


	KEYNOTE NO.		K	E	YNOTE	S (THIS	S S	SHE	ET)	
		INFILL	OPENING WI	TH	CMU. MATCH EX	ST PATTERN &	BLOC	CK SIZE.			
	(2)	DOWN	SPOUT DRAIN	N PI	PE TO LANDSCA	PED AREAS. SE	E CIV	/IL DRWG			
TA OUTLET	3		TVE BID NO. DRWG & SPE		AREA FOR ELECT ICATION.	RONIC HIGH DE	ENSITY	(STORAC	GE SY	STEM,	CFCI. SEE
SH BLOCK	4	LEVEL	& SEAL EX	ST (CONC FLR.						
	5	BASE	& WALL HU	NG	CABINETS.						
	6	OPEN	SHELVING.								
	7	METAI DRAIN		/ GL	JTTER AND DOW	NSPOUT ABOVE.	. CON	INECT TO	DOW	NSPOU [®]	T
	8	HELCO) meter & M	MAIN	I DISCONNECT S	WITCH. SEE ELE	EC DR	WG.			
	9	ADDIT	IVE BID NO.	3 –	PV DISCONNEC	T SWITCH.					
		DOWN	SPOUT W/ P	RE-	-CAST CONC SPL	ASH BLOCK.					
		SITE 2	SIGNAGE, SEE	E CI	VIL DRWG.						
	12	FULL	HEIGHT STOR	RAGE	E. SEE DETAIL 4	/A-703.					
	13	APPL`	y sealer to	CM	IU WALL AS SCH	IEDULED.					
	14	PAINT	WALLS AS S	SCH	EDULED.						
	(15)	PARTI	AL HT WALL	SUF	PPORT.						
	(16)	DOWN	SPOUT OVER	FLO	W STRUCTURE.						
	17	CONC	CURB, SEE	CIVI	L DRWG.						
	18	PARK	ING MARKING	, SE	E CIVIL DRWG.						
	19	PRE-	CAST CONC	WHE	EL STOP, TYP.						
	20	VALVE	VALVE BOX, SEE CIVIL DRWG.								
	21	BACKFLOW PREVENTER, SEE CIVIL DRWG.									
	22	CHAIN LINK FENCE AND GATE.									
\langle	23		GATE OPERATOR. CORE CMU WALL FOR HOSE BIBB WATER LINE. PATCH AND REPAIR WALL. SEAL AROUN								
\backslash	24		CMU WALL F TRATION	FOR	HOSE BIBB WAT	ER LINE. PATCI	h ani	d repair	R WALI	SEAI	_ AROUND
	REVISION NO.	SYM.			DESCRIPTION			SHT./OF	DA	ATE	APPROVED
		_	5		DEPARTM	ENT OF LANE) ANI			RESO	JRCES
c	FRE	PROFES	ERST Z			ENGINEE HAWAII DIST				CE	
(*	No. 1				REPAIR			N		
		AWAII	, U. 2						- •		
		CENSE EXPIR	ES APRIL 30, 2024		DESIGNED: KK)A/I				*	×
	THIS WORK "	SIGNA	TURE D BY ME OR UNDER N	٩Y	DRAWN: KA, TW, CHECKED: FE	vvL		OATE: NOV			
NORTH	SUPERVISION WILL BE UNDE CONSTRUCTION THE HAWAII AI COMMERCE	AND CONSTRU R MY OBSER AS DEFINED DMINISTRATIVE AND CONSU	UCTION OF THIS PROJECT VATION. (OBSERVATION C IN CHAPTER 16-115 C RULES, DEPARTMENT C MER AFFAIRS ENTITLE	CT OF OF OF ED	APPROVED:	Carty Chang E-signed 2022-1			ьI	_	
-	PROFESSIONAL AND LANDSCA	ENGINEERS, PE ARCHITEC	ARCHITECTS, SURVEYOR TS).	RS	CHIEF ENGINEEF		i				201
	JC	B NO.	. E00BH30A	ł	SH	EET NO 2	4	OF 7	77	SHEE	TS

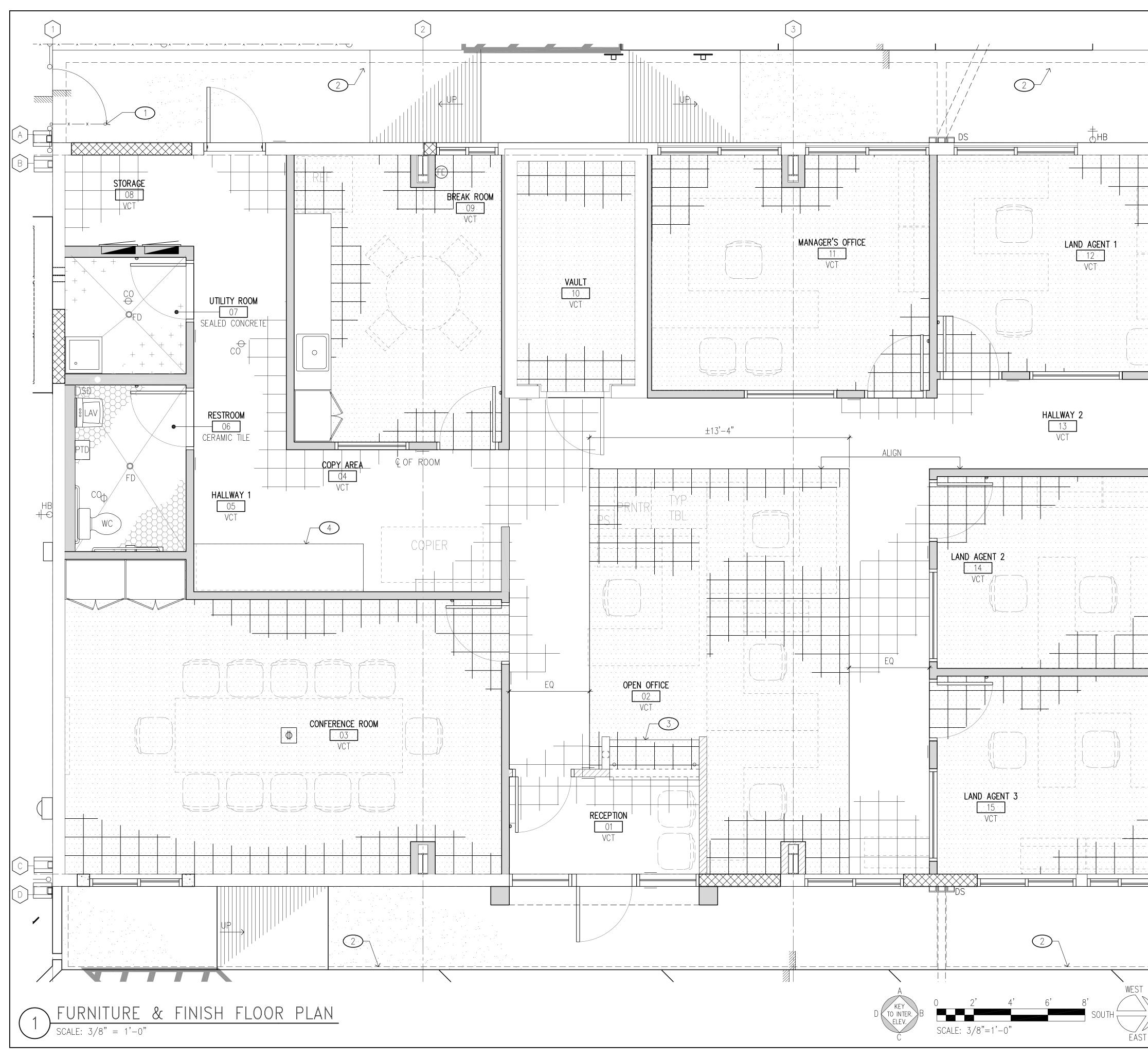




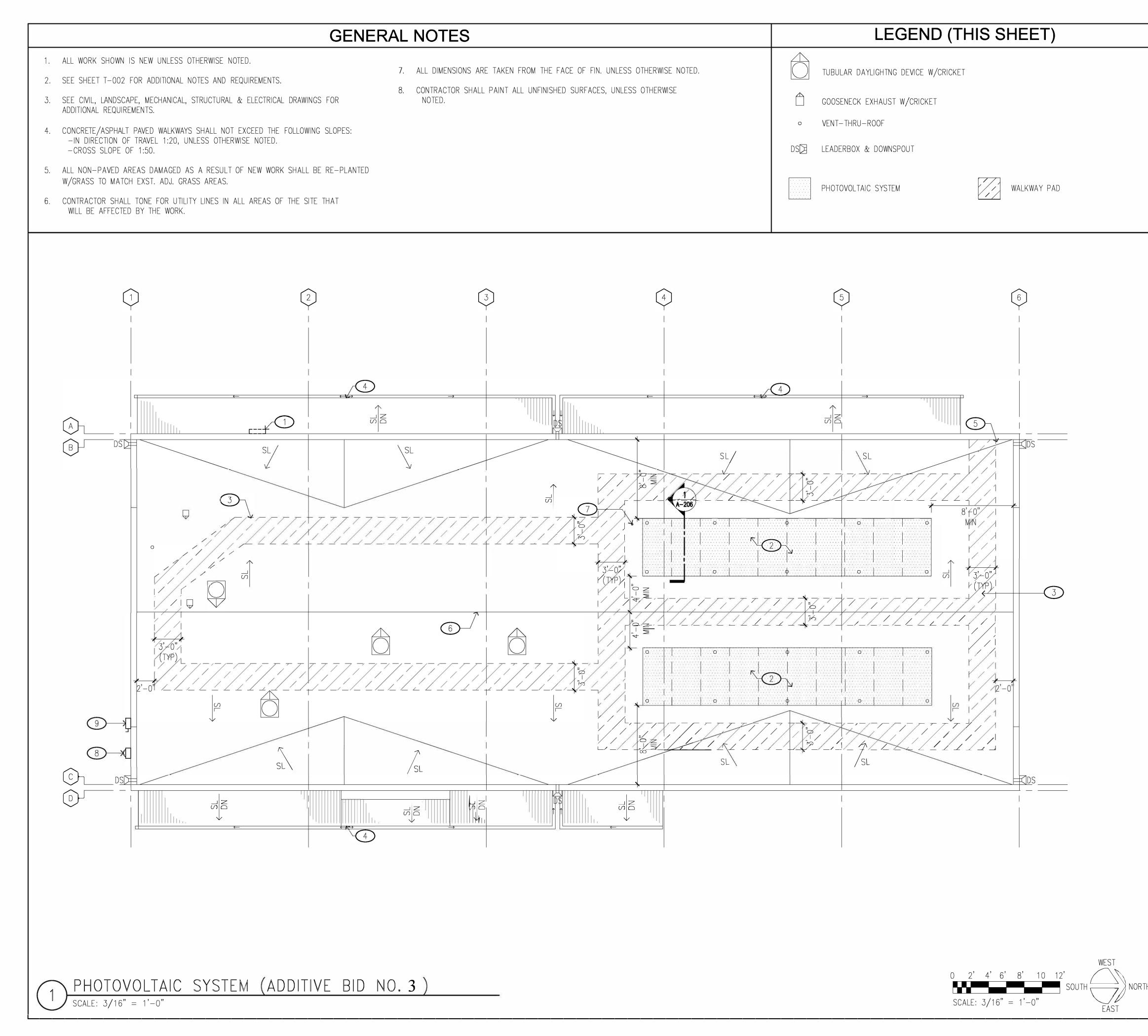


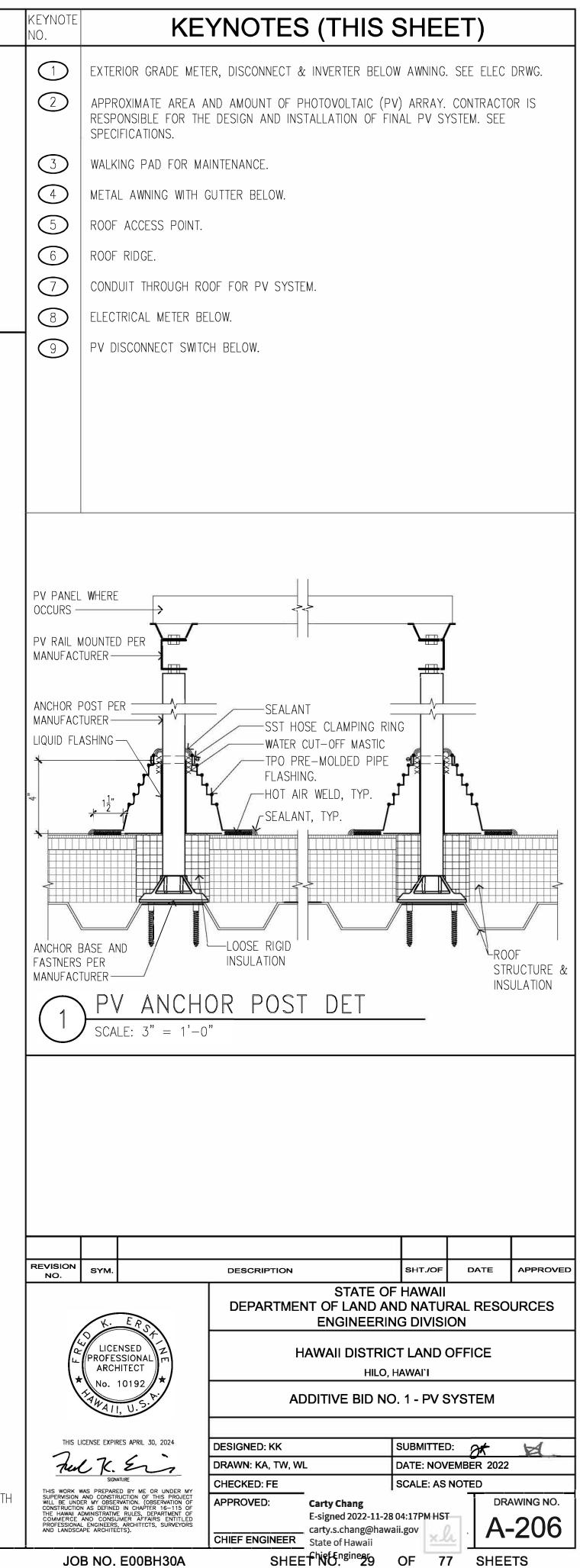


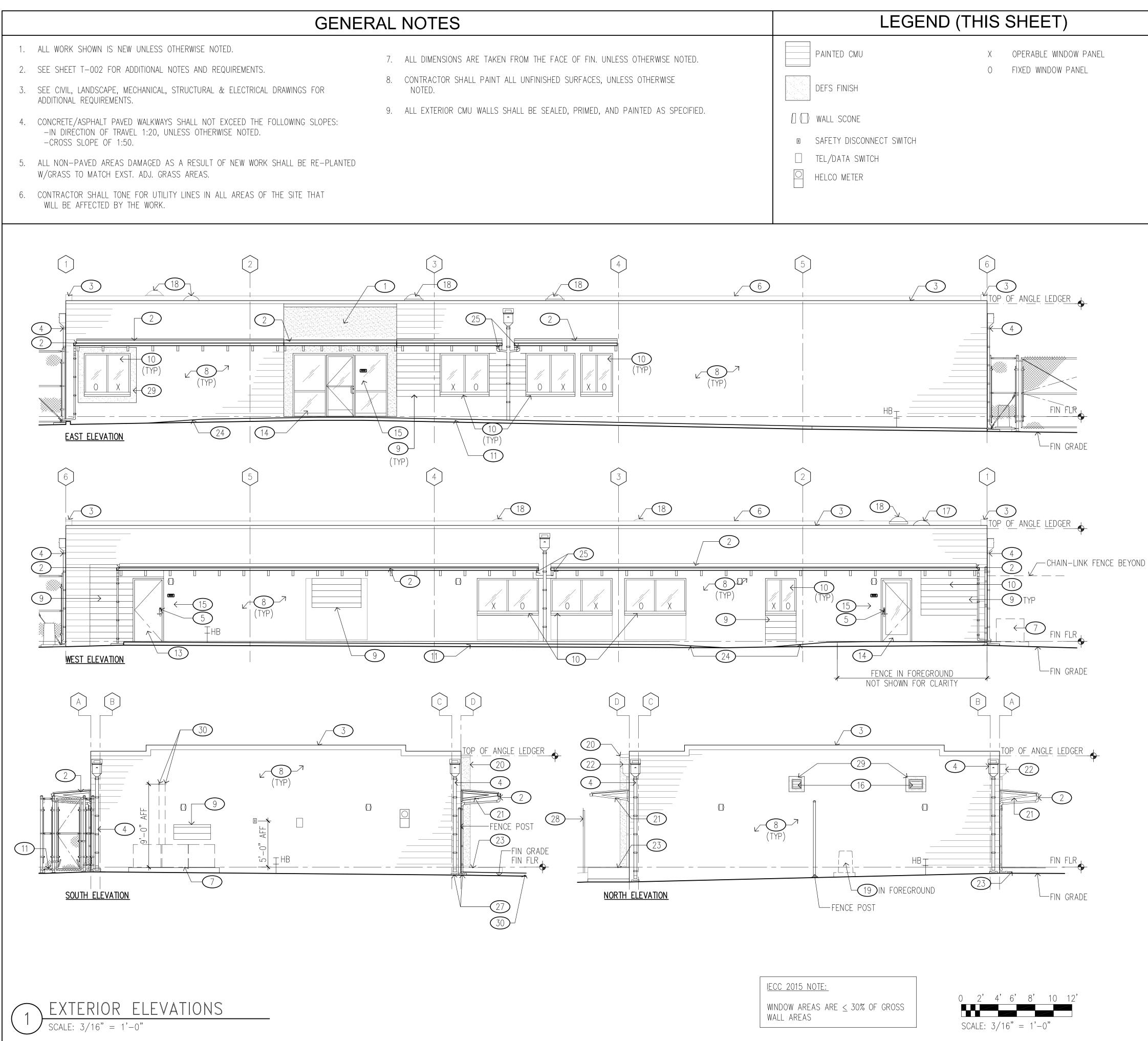
			GE		NOTES	5		
		1.	ALL WORK SHOWN IS N	EW UNLESS OTHERWI	SE NOTED.			
		2.	SEE SHEET T-002 FOR	ADDITIONAL NOTES A	AND REQUIREM	ENTS.		
		3.	SEE MECHANICAL, STRUC	TURAL & ELECTRICA	l drawings f	OR ADDITION	NAL REQUIR	REMENTS.
		4.	CONCRETE/ASPHALT PAV —IN DIRECTION OF TRA —CROSS SLOPE OF 1::	VEL 1:20, UNLESS (WING SLOP	PES:
		5. ALL NON-PAVED AREAS DAMAGED AS A RESULT OF NEW WORK SHALL BE RE-PLANTED W/GRASS TO MATCH EXST. ADJ. GRASS AREAS.						
		6.	CONTRACTOR SHALL TON WILL BE AFFECTED BY		S IN ALL ARE	AS OF THE	SITE THAT	
		7.	ALL DIMENSIONS ARE TA		E OF FIN. UNL	ESS OTHER	WISE NOTEI).
		8.	CONTRACTOR SHALL PAI NOTED.	NT ALL UNFINISHED	SURFACES, UN	NLESS OTHE	RWISE	
				EGEND (⁻	THIS S	HEET	Γ)	
			\supset	-				
			FE) FIRE EXTINGUISH		0	FLOOR POV		
			\sim 7'-1" HEIGHT P			1-HR RA	TED PARTI	TION
	FE		L 4'-0" HEIGHT P					
			CONCRETE MASC					
		KEYNOTE NO.	KE	YNOTES	(THIS	SHEE	ET)	
		$\overbrace{1}^{1}$	METAL AWNING ABOVE		<u> </u>		,	
		(2)	OPEN SHELVING.	-				
		_	BASE & WALL HUNG	CASEWORK				
		$\overline{3}$						
	≯D	(4)	COUNTERTOP W/ CUB	BY STORAGE BELOW				
		5	THRESHOLD.					
		6	GRAB BAR.					
		$\overline{7}$	MIRROR.					
		8	MOP SINK.					
		9	FULL HEIGHT CASEWO	RK.				
		10	WALL STOP, TYP.					
		(1)	NOT USED.					
		12	CHAINLINK GATE FOR	MAINTENANCE.				
		13	SEAL AROUND WALL F	PENETRATIONS.				
		14	PATCH & REPAIR ARG)UND FOOTING PENE	TRATIONS, SEE	STRUCT DI	RWG.	
		15	TRANSACTION COUNTE	R.				
E		(16)	CONC CURB.					
		(17)	CONC WALKWAY.					
		18	CHAIN LINK FENCE.					
	l ł							
		REVISION NO.	SYM.	DESCRIPTION			DATE	APPROVED
			K. ERS	DEPARTMENT	STATE O OF LAND A ENGINEERII	ND NATUR		URCES
				HA				
	HILO, HAWAI'I							
			TAWAII, U.S.	PA	RTIAL REPA	IR FLOOR	PLAN	
			LICENSE EXPIRES APRIL 30, 2024	DESIGNED: KK				×.
			SIGNATURE SIGNATURE WAS PREPARED BY ME OR UNDER MY	DRAWN: KA, TW, WL CHECKED: FE		DATE: NOVE SCALE: AS N		
NORTH	+	SUPERVISION WILL BE UNE CONSTRUCTIO THE HAWAII	AND CONSTRUCTION OF THIS PROJECT DER MY OBSERVATION. (OBSERVATION OF N AS DEFINED IN CHAPTER 16-115 OF ADMINISTRATIVE RULES. DEPARTMENT OF		a rty Chang -signed 2022-11-28	3 04:17PM HST		AWING NO.
		PROFESSION/ AND LANDSC	AND CONSUMER ÀFFAIRS ENTITLED AL ENGINEERS, ARCHITECTS, SURVEYORS APE ARCHITECTS).	CHIEF ENGINEER S	arty.s.chang@haw tate of Hawaii		<u> </u> A-	-204
		10	DB NO. E00BH30A	SHEE	hief Engineer NO 27	OF 7	7 SHE	



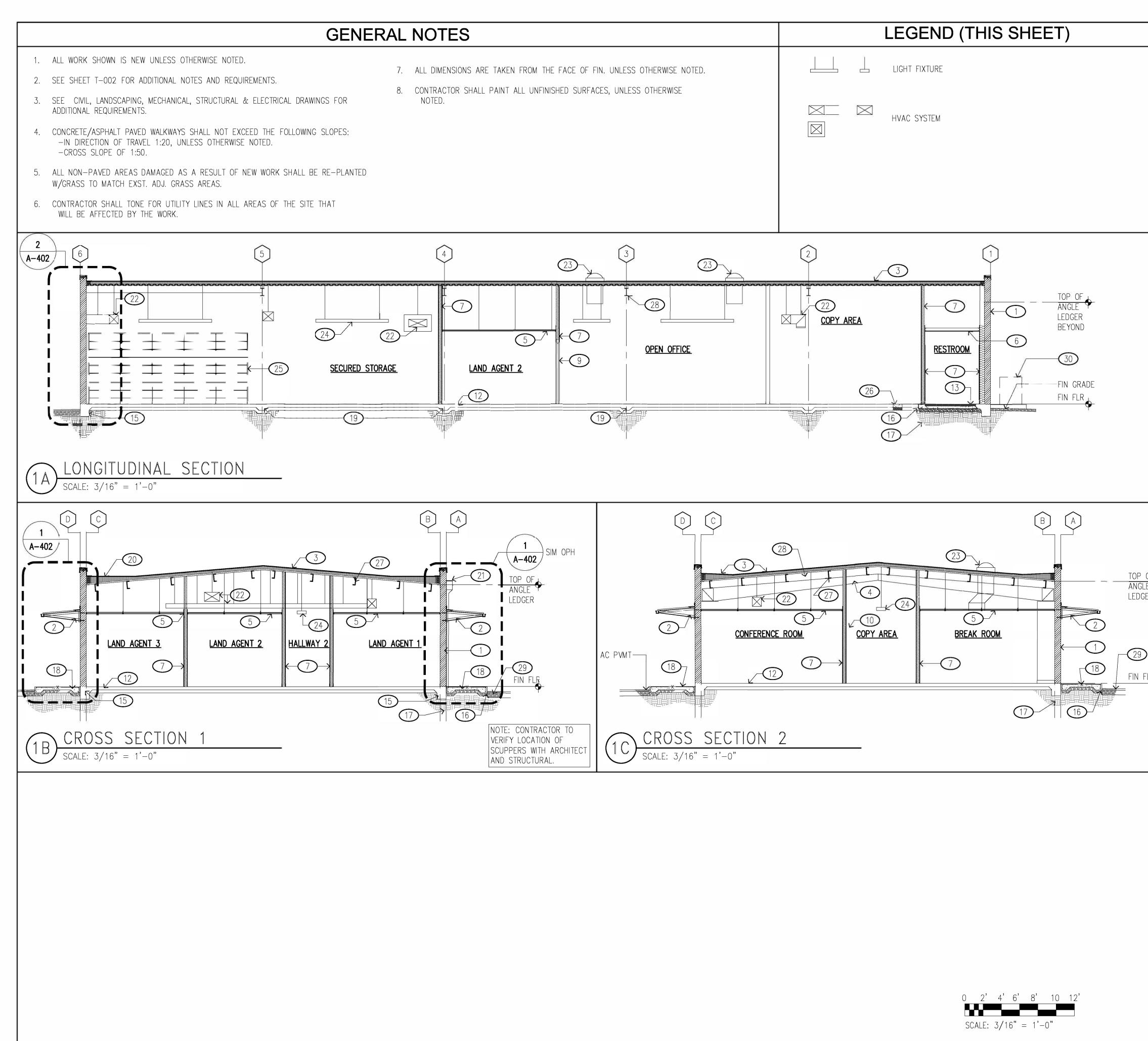
4			GE	ENERAL	NOTE	S		
				W UNLESS OTHE				
					ES AND REQUIREN			
					RICAL DRAWINGS			
	4. (OF TRA	VEL 1:20, UNLES	HALL NOT EXCEED SS OTHERWISE NO		UWING SLUF	2ES:
				DAMAGED AS A ST. ADJ. GRASS	RESULT OF NEW AREAS.	V WORK SHA	ALL BE RE—	PLANTED
	6. (CONTRACTOR SI WILL BE AFFE			INES IN ALL ARE	EAS OF THE	SITE THAT	
					FACE OF FIN. UN IED SURFACES, U			D.
	9.	NOTED. FF&E TO BE F	FURNISHE	d and installe	d by the state			
			LE	EGEND	(THIS S	SHEE	T)	
		CERAMIC TILE	-			FE	FIRE EXTIN	
		VINYL COMPC	OSITE TILE	VT-1	[EIGHT PTN EIGHT PTN
		VINYL COMPC	ISITE TILE	VT-2			CONCRETE	
+	+ + + + + + + + + + + + + + + + + + +	SEALED CON	CRETE WIT	TH EPOXY FLOOF	RING <u>SE-2</u>		FURNITURE	, OFOI
	KEYNOTE NO.		KE`	YNOTE	S (THIS	SHE	ET)	
		CHAINI INK G.		MAINTENANCE			,	
· · · · · · · · · · · · · · · · · · ·	(2)	METAL AWNIN						
	$\overline{3}$	TRANSACTION	COUNTE	R				
	4	COUNTER TOP	⊃ W∕ CUE	BBY STORAGE BE	ELOW			
	REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED
		F F		DEPARTME	ENT OF LAND A ENGINEER		RAL RESC	URCES
			, NE		HAWAII DISTR			
	*	No. 10192	*/	FUF			OOR PLAN	1
	This L	LICENSE EXPIRES APRIL 30,	2024	DESIGNED: KK		SUBMITTE	D: AK	Ø.
	her	C.K.E. SIGNATURE	~	DRAWN: KA, TW, N CHECKED: FE	WL	DATE: NOV	EMBER 2022	
NORTH	SUPERVISION WILL BE UND CONSTRUCTIO THE HAWAII A COMMERCE	WAS PREPARED BY ME OR AND CONSTRUCTION OF THI DER MY OBSERVATION. (OBSEI IN AS DEFINED IN CHAPTER ADMINISTRATIVE RULES, DEPA AND CONSUMER AFFAIRS AL ENGINEERS, ARCHITECTS, TAPE ARCHITECTS).	S PROJECT RVATION OF 16–115 OF RTMENT OF FNTITI FD	APPROVED:	Carty Chang E-signed 2022-11-2 carty.s.chang@ha	28 04:17PM HS waii.gov		awing no. -205
	JC	DB NO. E00BH	-130A	CHIEF ENGINEER	State of Hawaii EETNO ^{Enginee} 28	OF	77 SHE	



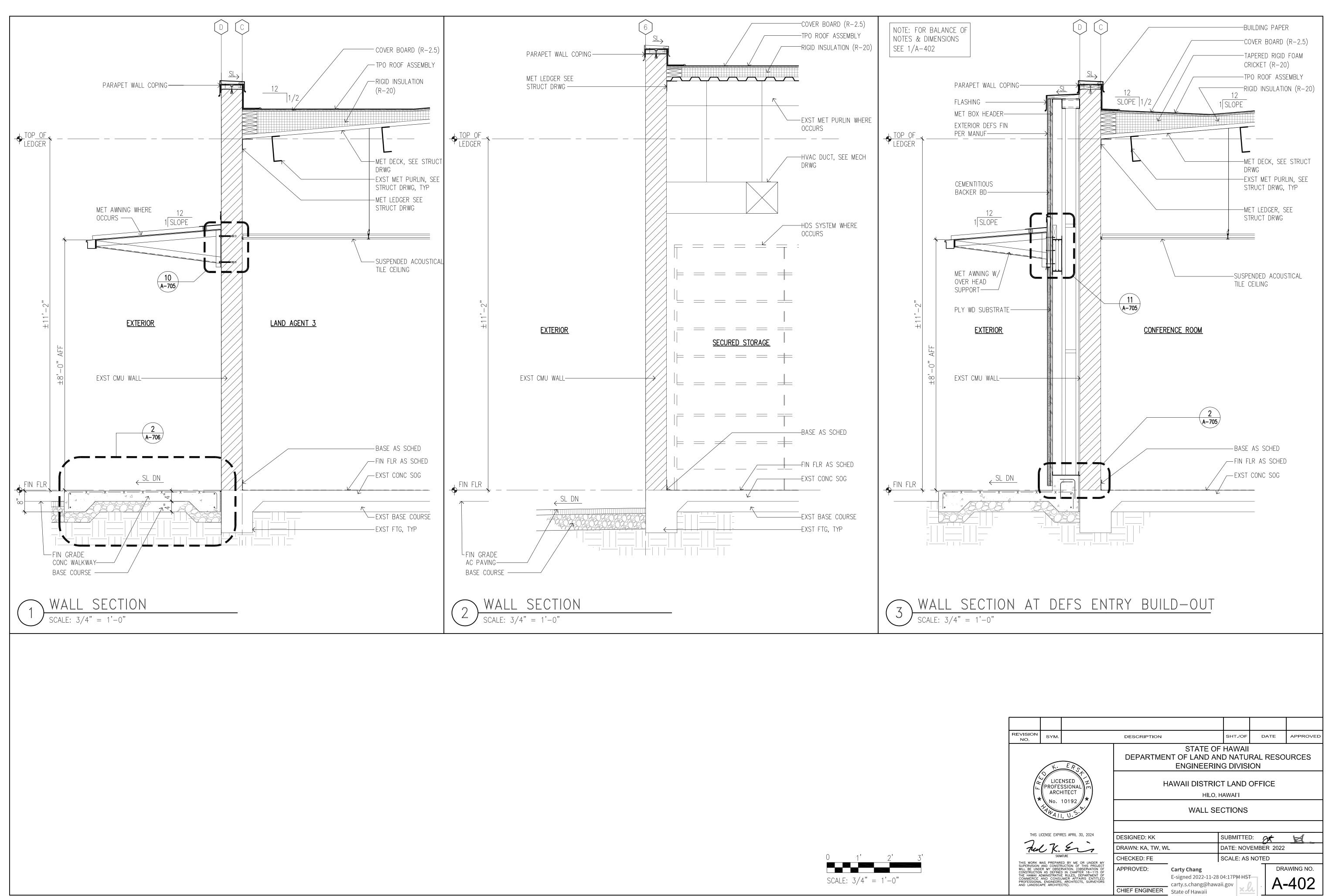




KEYNOTE NO.	KE	YNOTE	S (THIS	SHEE	T)
	DEFS ENTRY, BUILD-C)UT.			
(2)	METAL AWNING WITH	GUTTER & DOWNS	SPOUT.		
3	PARAPET COPING.				
4	METAL DOWNSPOUT &	LEADERBOX.			
5	KEYPAD LOCKSET.				
	ROOF RIDGE.				
(7)	CONC EQUIPMENT PAE) & MECH EQUIP	MENT, SEE MECH	DRWG.	
$\left \begin{array}{c} \\ \end{array} \right $	EXST CMU WALL PRIM	E & PAINT AS S	CHEDULED.		
\bigcirc	CMU INFILL, ALIGN WI	TH EXST GROUT	LINES, PRIME & P.	AINT AS SCHE	EDULED.
	WINDOW ASSEMBLY, T	YP. SEE IECC 20	15 NOTE FOR MOR	RE INFORMATIO	ON.
(11)	CONC WALKWAY.				
$\underbrace{12}$	CONC CURB. SEE CIVI	L DRWG.			
(13)	METAL DOOR & FRAM	e prime & pain'	T.		
$\underbrace{)}_{(14)}$	STOREFRONT AS SCHE	EDULED.			
(15)	ADA SIGNAGE.				
(16)	OUTSIDE AIR INTAKE I	_OUVER.			
(17)	GOOSENECK EXHAUST				
(18)	TUBULAR DAYLIGHTING				
$\underbrace{19}$	ELECTRONIC GATE &	OPERATOR ON CO	ONC PAD.		
20	DEFS ENTRY BUILD-O	UT BEYOND.			
$\underbrace{)}{21}$	METAL AWNING BEYON	ID.			
(22)	METAL DOWNSPORT &	LEADER BEYOND).		
23	CONC WALKWAY BEYC	ND.			
(24)	CONC RAMP.				
(25)	CONNECT AWNING DO	NNSPOUT TO BUI	LDING DOWNSPOUT	FOR DRAINA	GE TO LANDSCAPE
26	CONC HEADER, SEE C	IVIL DRWG.			
(27)	PRE-CAST CONC SPL				
$\underbrace{)}{28}$	SITE SIGNAGE.				
(29)	CAST IN PLACE CONC	rete frame, sei	E STRUCT DRAWIN	GS.	
(30)	CONC CURB, SEE CIVI				
$\overline{(30)}$	AC CONDENSATE LINE	S, PENETRATE AI	BOVE CEILING		
		,			
REVISION					
NO.	SYM.	DESCRIPTION	STATE OI	SHT./OF F HAWAII	DATE APPROV
	K. ERS	DEPARTME	ENT OF LAND AN ENGINEERIN	ND NATURA	
	LICENSED		HAWAII DISTRIC	CT LAND OF	FICE
	ARCHITECT No. 10192			HAWAI`I	
	AMAII, U.S.		EXTERIOR E	ELEVATIONS	S
THIS L	ICENSE EXPIRES APRIL 30, 2024	DESIGNED: KK		SUBMITTED:	at 12
Fren	LK. En SIGNATURE	DRAWN: KA, TW, V	WL	DATE: NOVEM	IBER 2022
THIS WORK W SUPERVISION WILL BE UND CONSTRUCTION	VAS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT ER MY OBSERVATION. (OBSERVATION OF N AS DEFINED IN CHAPTER 16-115 OF DIMINISTRATIVE. RULES, DEPARTMENT OF	CHECKED: FE APPROVED:	Carty Chang	SCALE: AS NO	DTED DRAWING NO.
PROFESSIONA	DMINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHITECTS, SURVEYORS APE ARCHITECTS).		E-signed 2022-11-28 carty.s.chang@haw State of Hawaii		A-301
ـــــــــــــــــــــــــــــــــــــ	DB NO. E00BH30A		EET NO 30	OF 77	SHEETS

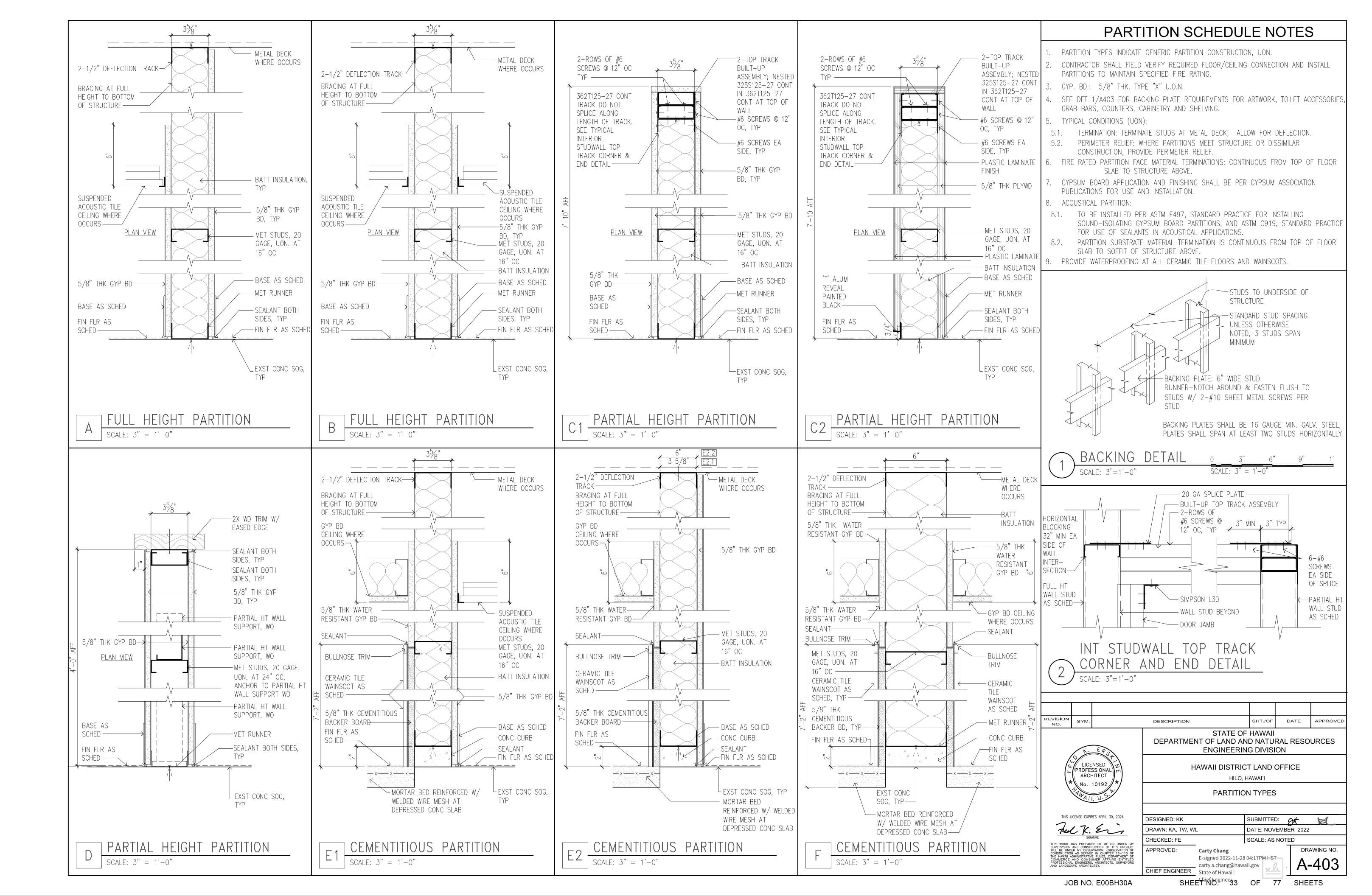


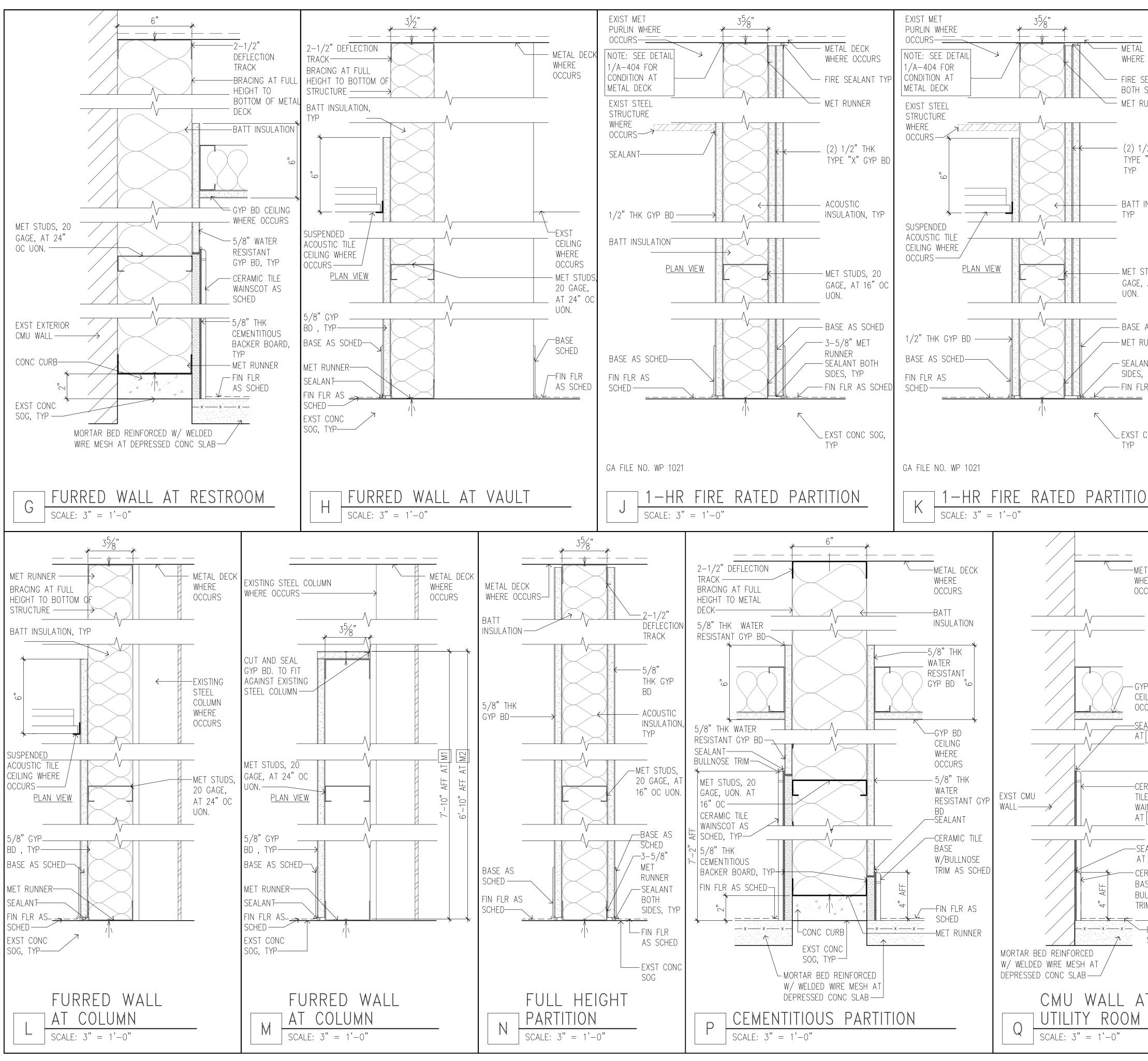
KEYNOTE NO.	KEYNOTES (THIS SHEET)
	EXST CMU WALL, TYP.
2	METAL AWNING.
3	TPO ROOF W/ RIGID INSULATION ON METAL DECKING, TYP.
4	NOT USED.
5	SUSPENDED ACOUSTIC TILE CEILING.
6	GYP BD CEILING.
$\overline{7}$	PARTITION AS SCHED.
8	NOT USED.
9	DOOR AND FRAME WHERE OCCURS.
10	NOT USED.
$\bigcirc 1 \bigcirc 1$	NOT USED.
12	EXST CONC SOG WHERE OCCURS.
13	MORTAR BED REINFORCED W/ WIRE MESH AT DEPRESSED CONC SLAB, SEE STRUCT DRWG.
$\underbrace{14}$	NOT USED.
15	EXST CONC FOOTING, TYP.
16	BASE COURSE, TYP.
(17)	EXST GRADE, TYP.
18	CONC WALKWAY, TYP.
19	EXST GRADE BEAMS, TYP.
20	CRICKET
21	LEADER BOX AND DOWNSPOUT BEYOND.
22	HVAC DUCT, SEE MECH DRWG. TYP.
23	TUBULAR DAYLIGHT DEVICE.
24	SUSPENDED LIGHT FIXTURE, SEE ELEC DRWG, TYP.
(25)	ADDITIVE ALTERNATE NO. 2 ELECTRONIC HIGH DENSITY STORAGE SYSTEM, SEE ELEC DRWG & SPECIFICATIONS.
26	PATCH CONC FLOOR WHERE OCCURS.
27	EXST METAL PURLIN.
28	EXST STEEL BEAM.
29	AC PAVEMENT.
30	CONDENSING UNIT, SEE MECH DRAWINGS.
REVISION	
NO.	SYM. DESCRIPTION SHT./OF DATE APPROVED STATE OF HAWAII DEDADTMENT OF LAND AND MATURAL DECOUNDOED
	DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION
	LICENSED PROFESSIONAL ARCHITECT No. 10192
Ň	BUILDING SECTIONS
	LICENSE EXPIRES APRIL 30, 2024 DESIGNED: KK SUBMITTED:
her	UK.E. DRAWN: KA, TW, WL DATE: NOVEMBER 2022 SIGNATURE CHECKED: FE SCALE: AS NOTED
THIS WORK SUPERVISION WILL BE UNE CONSTRUCTIO THE HAWAII	WAS PREPARED BY ME OR UNDER MY I AND CONSTRUCTION OF THIS PROJECT DER MY OBSERVATION. (OBSERVATION OF DN AS DEFINED IN CHAPTER 16-115 OF APPROVED: Carty Chang DRAWING NO.
PROFESSION	AND GUNS UNER AFFAIRS ENTITLED AL ENGINEERS, ARCHITECTS, SURVEYORS APE ARCHITECTS). CHIEF ENGINEER CHIEF ENGINEER State of Hawaii
JC	OB NO. E00BH30A SHEET NO. E00BH30A SHEETS



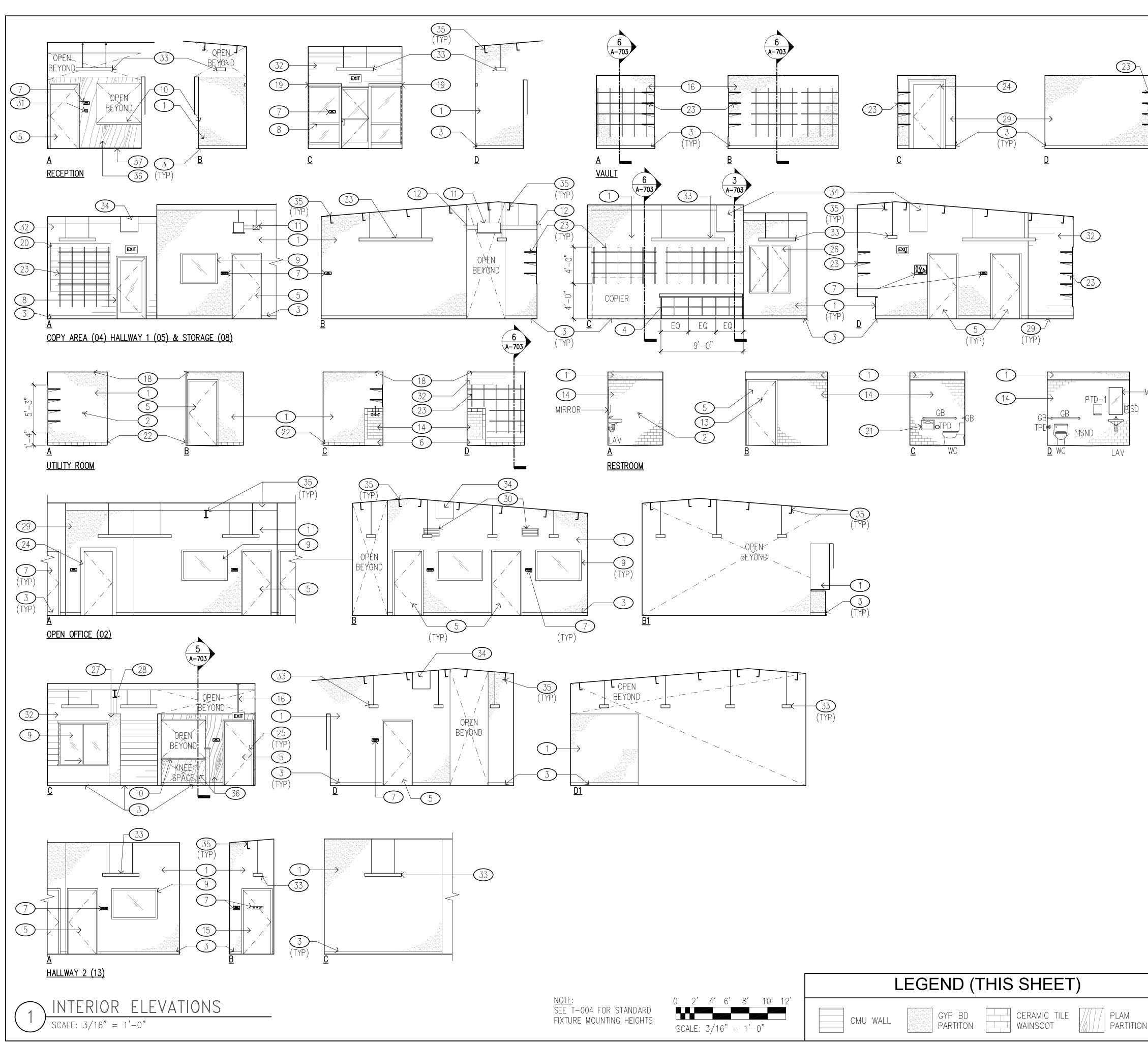
JOB NO. E00BH30A

SHEET NO. 32 OF 77 SHEETS

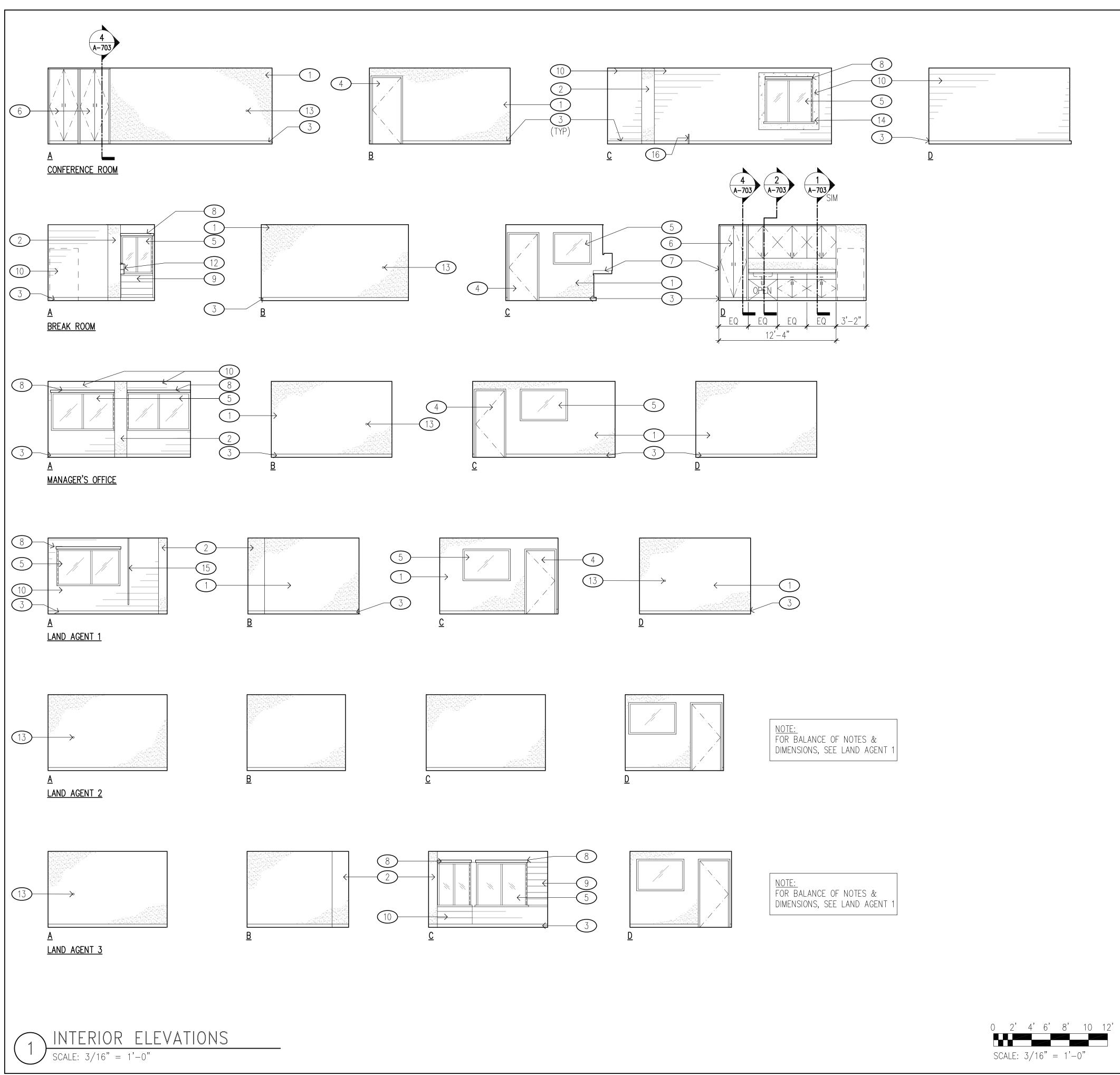




	PARTIT	ION SCHEDULE	E NOTES
DECK OCCURS EALANT SIDES, TYP			
JNNER	 4. SEE DET 1/A-403 FOR BACK ACCESSORIES, GRAB BARS, C 5. TYPICAL CONDITIONS (UON): 	KING PLATE REQUIREMENTS FOR A OUNTERS, CABINETRY AND SHELVI	NG.
′2" THK "X" GYP BD,	5.2. PERIMETER RELIEF: WHEF CONSTRUCTION, PROVIDE	STUDS AT STRUCTURAL SOFFIT; RE PARTITIONS MEET STRUCTURE PERIMETER RELIEF. MATERIAL TERMINATIONS: CONTINU(OR DISSIMILAR
NSULATION,	SLAB TO STRUCTURE ABOVE. 7. GYPSUM BOARD APPLICATION PUBLICATIONS FOR USI	AND FINISHING SHALL BE PER G	
TUDS 20 AT 16"OC	SOUND-ISOLATING GYPSU FOR USE OF SEALANTS 8.2. PARTITION SUBSTRATE M SLAB TO SOFFIT OF STR	ASTM E497, STANDARD PRACTICE JM BOARD PARTITIONS, AND ASTM IN ACOUSTICAL APPLICATIONS. ATERIAL TERMINATION IS CONTINU(RUCTURE ABOVE. ALL CERAMIC TILE FLOORS AND V	I C919, STANDARD PRACTICE DUS FROM TOP OF FLOOR
AS SCHED JNNER			
NT BOTH	3" DEFLECTION TRACK	INSULATIO	NERAL WOOL BATT N CUT TO FIT
TYP R AS SCHED	4 PCF MINERAL WOOL BATT INSULATION CUT TO GYP BD THICKNESS AND COMPRESSED 50% IN HEIGHT—	_1/8" ТНК	ECK AND SED 33% IN HEIGHT MIN WET THICKNESS IATERIAL ON EACH
CONC SOG,	TPO ROOFING		VALL COMPLETELY MINERAL WOOL
<u>N</u>			
TAL DECK ERE CURS	1/2" THK TYPE "X" FIRE RATED GYP BD ON METAL FRAMING ————————————————————————————————————	(2)	TT INSULATION 1/2" THK TYPE "X" FIRE TED GYP BD ON METAL AMING UL NO. HWD-D-0420
P BD LING WHERE CURS) PARTITION METAL DECK 03"	<u> </u>
ALANT Q1		SCALE: 3" =	= 1'-0"
RAMIC E NSCOT Q1			
ALANT "7" [2] "7			
RAMIC TILE SE/W LNOSE M AT Q2	REVISION SYM.	STATE OF HAD STATE OF HAD STATE OF HAD STATE OF LAND AND ENGINEERING	NATURAL RESOURCES
FIN FLR AS	LICENSED PROFESSIONAL ARCHITECT No. 10192	HAWAII DISTRICT L HILO, HAW PARTITION 1	ναΓι
		SIGNED: KK SUE	
Τ	SIGNATURE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16–115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).	IECKED: FE SC/ PROVED: Carty Chang E-signed 2022-11-28 04:1 carty.s.chang@hawaii.go	
	JOB NO. E00BH30A	ILEF ENGINEER State of Hawaii SHEET NO. 34 O	



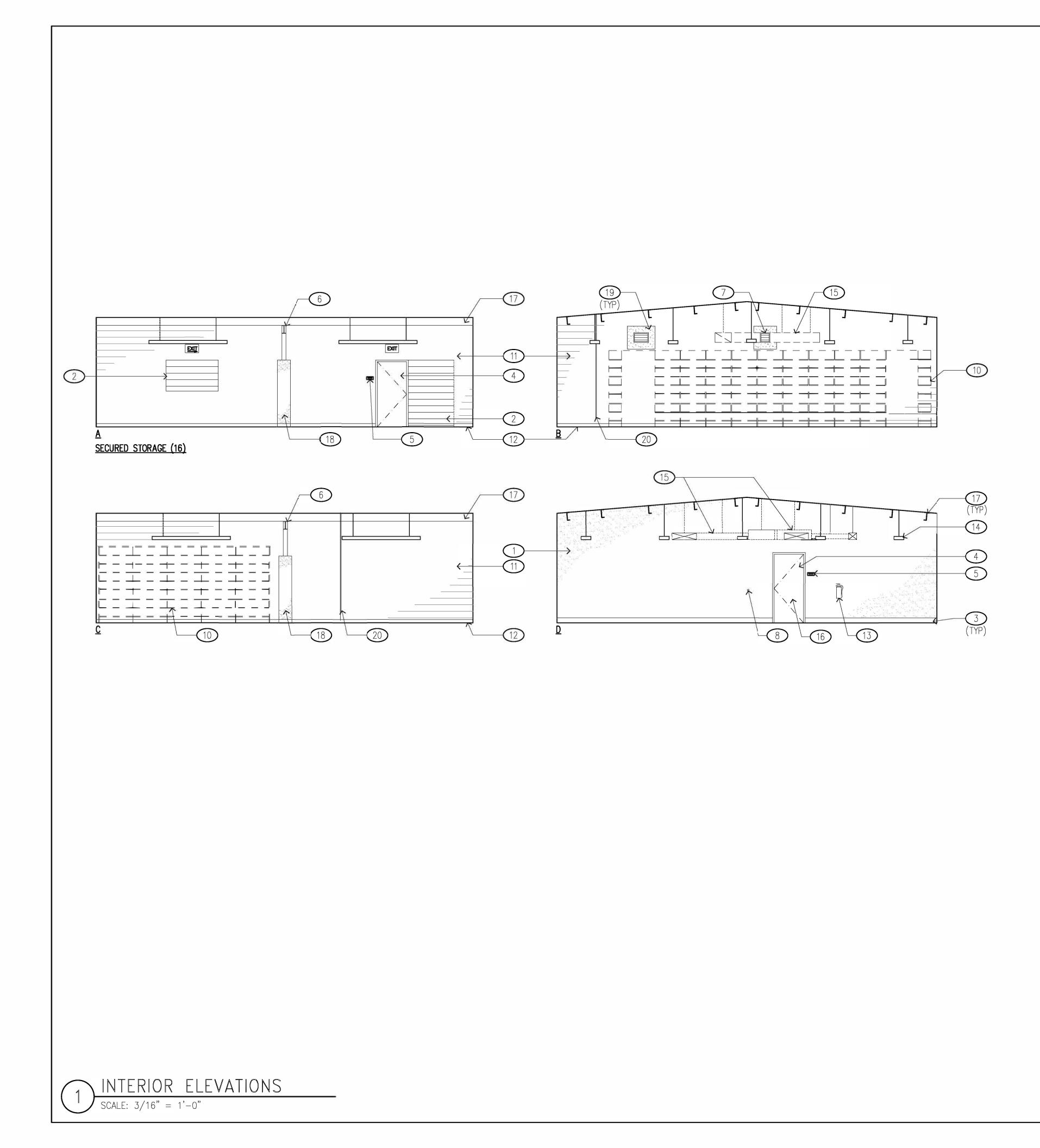
	KEYNOTE NO.	KE	YNOTES (THIS	S SHEET	Γ)		
	$\bigcirc 1$	PRIME AND PAINT (GYP BD WALL.				
<u> </u>	(2)	DOOR STOP.					
×	3	RUBBER BASE. RB-1					
153/	4	BUILT-IN COUNTERTOP, W/CUBBY STORAGE.					
	(5)	DOOR AND FRAME, STAIN. ST-1					
		MOP SINK, SEE MECH DRWGS.					
	$\overline{7}$	ADA SIGNAGE, TYP.					
	$) \\ \otimes \\ \\ \otimes \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		ONT SYSTEM. TR-1>				
	$\bigcirc 9$	GLAZING AS SCHED					
					$1\sqrt{cc}$		
	$\begin{pmatrix} 10 \\ 11 \end{pmatrix}$	TRANSACTION COUNTER TOP, W/ PLASTIC LAMINATE FACE. $PL-1 \times SS-1$ FAN COIL UNIT AND DUCT. SEE MECH DRWG.					
) (
	(12)	CAULK & SEAL AROUND PENETRATIONS.					
	(13)	ROBE HOOK.					
	(14)	CERAMIC TILE WAINSCOT, RUNNING BOND. CT-2					
	(15)	FIRE RATED METAL DOOR AND FRAME. PRIME AND PAINT. $\langle PT-4 \rangle$					
	(16)	METAL ROD TO MOUNT EXIT SIGN.					
MIRROR	(17)	NOT USED.					
	(18)	PRIME AND PAINT GYP BD CEILING.					
	(19)	MANUAL ROLLER SHADE W/ CONTROL CHAIN.					
	(20)	CMU INFILL, SEAL WITH CLEAR MATTE COAT. $\overline{SE-1}$					
	21	TOILET SEAT COVER DISPENSER.					
	22	CERAMIC TILE WALL BASE.					
	23	ADJUSTABLE SHELVING W/ SUPPORTS SPACED 16" O.C. AT STUDS. $PL-1$					
24 PRIME AND PAINT METAL DOOR AND FRAME. PT-4							
	25	2X WOOD FINISH TRIM. ST-1					
	26	ELEC PANEL, SEE ELEC DRWG.					
	27	COLUMN FURRING. PRIME, PAINT, & INSTALL RUBBER BASE ALL SIDES.					
	28	EXISTING STEEL STRUCTURE TO REMAIN, PRIME AND PAINT. PT-3					
	29	PRIME AND PAINT CMU WALL.					
	30	SUPPLY AIR REGISTER, SEE MECH DRWG. KEYPAD ACCESS.					
	31						
	32						
	33						
	34 TUBULAR DAY LIGHTING DEVICE.						
	(35) EXST PURLIN/STRUCTURE TO REMAIN. INFILL W/GYP BD AND SEAL ED WALL PENETRATIONS. PRIME & PAINT. $(PT-3)$						
	(36)	PLASTIC LAMINATE F	INISH. (PL-1)				
	 30 FEASHS EXAMPLY TE FINISH. (19) 37 3/4" METAL "T" REVEAL. PAINT SURFACE EXPOSED TO CONC W/ASPHALTIC 				W/ASPHALTIC		
		COATING.			,		
	REVISION NO.	SYM.	DESCRIPTION		DATE APPROVED		
	STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES						
	1	V. ERST	ENGINEERING DIVISION				
		LICENSED PROFESSIONAL ARCHITECT	HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I				
		No. 10192 *	INTERIOR ELEVATIONS				
		ICENSE EXPIRES APRIL 30, 2024	DESIGNED: KK DRAWN: KA, TW, WL	SUBMITTED: DATE: NOVEMB	∂ ★ <u>₩</u> ER 2022		
	THIS WORK N SUPERVISION	SIGNATURE VAS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT	CHECKED: FE	SCALE: AS NOT	ED		
N	WILL BE UND CONSTRUCTIOI THE HAWAII A COMMERCE PROFESSIONA	ER MY OBSERVATION. (OBSERVATION OF N AS DEFINED IN CHAPTER 16-115 OF DMINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHITECTS, SURVEYORS	APPROVED: Carty Chang E-signed 2022-1 carty.s.chang@	11-28 04:17PM HST	DRAWING NO.		
		DB NO. E00BH30A	CHIEF ENGINEER State of Hawaii SHEET	x.el	SHEETS		

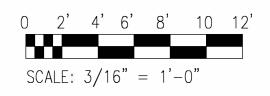


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GENT

KEYNOTE NO.	KEYNOTES (THIS SHEET)				
	PRIME AND PAINT GY	P BD WALL, $PT-4$			
		IME, PAINT, AND INSTALL RUBBER	RASE ALL SIDES PT_4 PR_1		
2			$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j$		
$\overline{3}$	RUBBER BASE. <u>(RB–</u>				
4	DOOR AND FRAME PR	TIME AND PAINT. $\overline{ST-1}$			
5	GLAZING, TYP.				
6	CASEWORK AS SCHED	, TYP $\langle PL-1 \rangle$			
$\overline{7}$	SOLID SURFACE COUN	ITERTOP, BACKSPLASH, & SIDE SP	LASH. SS-1		
$ \bigcirc \\ \otimes $	MANULAL ROLLER SHA	DE W/ CONTROL CHAIN.			
		·			
9	CMU INFILL WITH CMU				
(10)	CMU SEALER. SE-1	\rangle			
	NOT USED.				
12	FIRE EXTINGUISHER, S	EE MECH DRWG.			
(13)	WALL STOP.				
(14)	CAST IN PLACE CONC	RETE FRAMING, SEE STRUCT DRWG	$S \left(SE - 1 \right)$		
		ATERLINE OF HOSE BIBB.			
(16)	SURFACE MOUNTED C	OLD WATER LINE, SEE MECH DRWG	`.		
		GEND (THIS SHE	= = T)		
			- - ' <i>)</i>		
	CMU WALL	GYP BD			
		PARTITON			
REVISION NO.	SYM.		SHT./OF DATE APPROVED		
		DEPARTMENT OF LAND A	F HAWAII ND NATURAL RESOURCES		
	Q K. ERSST	ENGINEERI	NG DIVISION		
			CT LAND OFFICE		
(*	ARCHITECT No. 10192	HILO, HAWAI`I			
	AWAII, U.S.		ELEVATIONS		
THIS	CENSE EXPIRES APRIL 30, 2024				
THIS LICENSE EATIRES AFRIL 30, 2024		DESIGNED: KK DRAWN: KA, TW, WL	SUBMITTED: A SUBMITTED: DATE: NOVEMBER 2022		
THIS WORK W	SIGNATURE SIGNATURE AS PREPARED BY ME OR UNDER MY	CHECKED: FE	SCALE: AS NOTED		
WILL BE UNDE CONSTRUCTION THE HAWAII A COMMERCE	AS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT IC MY OBSERVATION. (DBSERVATION OF A S DEFINED IN CHAPTER 16-115 OF MINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED LENGINEERS, ARCHITECTS, SURVEYORS DE APCHITECTS)	APPROVED: Carty Chang E-signed 2022-11-28	8 04:17PM HST		
PROFESSIONAL AND LANDSCA	ENGINEERS, ARCHITECTS, SURVEYORS PE ARCHITECTS).	CHIEF ENGINEER carty.s.chang@haw State of Hawaii			
	B NO. E00BH30A	SHEETNO.	OF 77 SHEETS		

JOB NO. E00BH30A



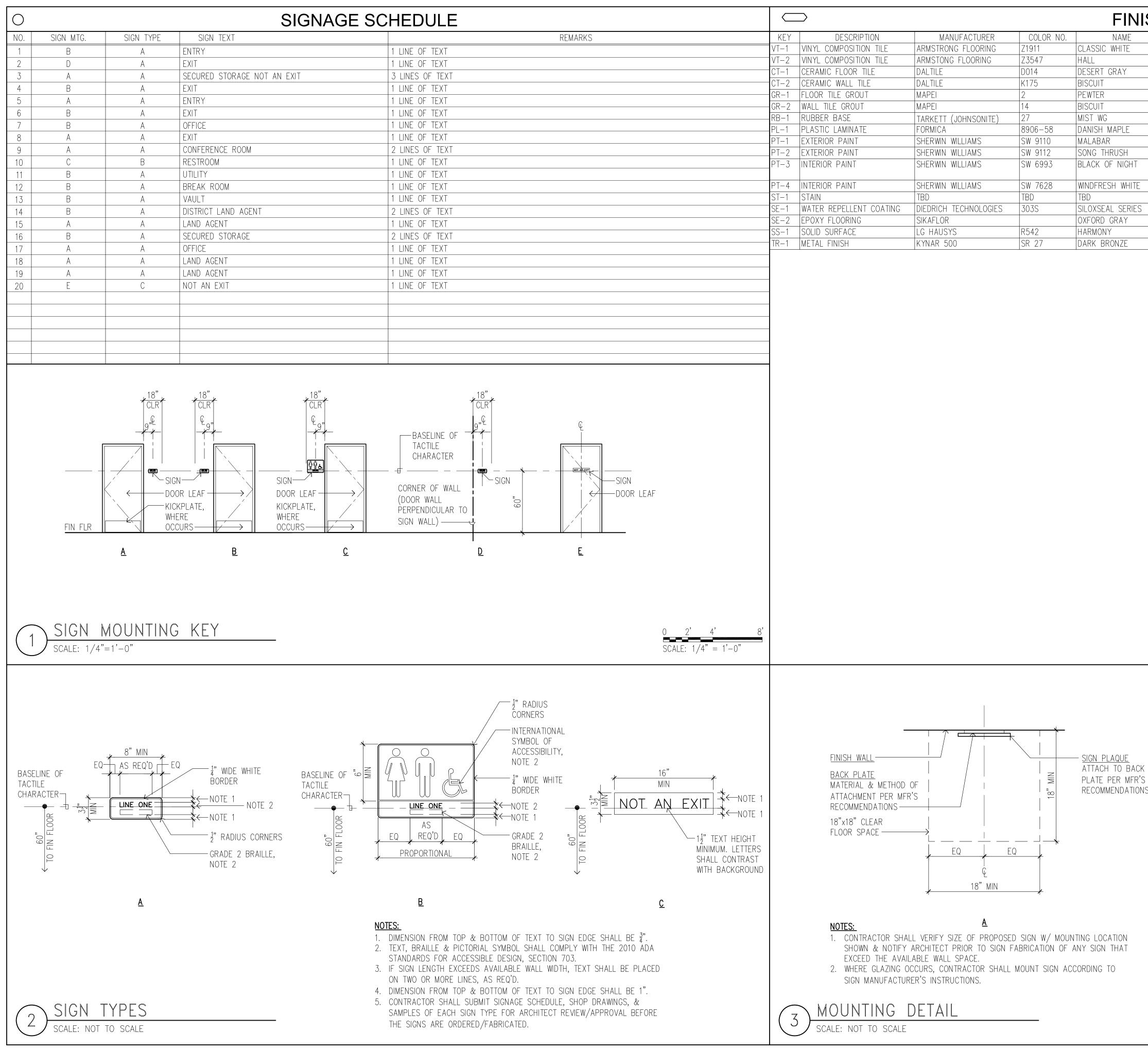


KEYNOTE NO.	KEYNOTES (THIS SHEET)						
	PRIME AND PAINT GYP BD WALL $\overline{(PT-1)}$						
(2)	CMU INFILL W/ CMU SEALER.						
$\overline{3}$	RUBBER BASE. $\overline{(RB-1)}$						
(4)	DOOR AND FRAME PRIME AND PAINT $\overline{(PT-4)}$						
5	ADA SIGNAGE, TYP.						
	EXISTING STEEL BEAM. PRIME AND PAINT. $\overline{\langle PT-3 \rangle}$						
\bigcirc	VENTILATION LOUVER, SEE MECH DRWGS. $\overline{(TR-1)}$						
$ \bigcirc \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \$	WALL STOP.						
9	CAST IN PLACE CONC FRAME, SEE STRUCT DRWG.						
	ADDITIVE BID NO.3. AREA FOR ELECTRONIC HDS SYSTEM, SEE ELEC DRWG AND SPECIFICATIONS.						
	CMU SEALER.						
	EPOXY RESIN ROLL-UP BASE.						
(13)	FIRE EXTINGUISHER, SEE MECH DRWG.						
(14)	LIGHT FIXTURE, SEE ELEC DRWGS.						
	HVAC DUCTS & FCU, SEE MECH DRWGS.						
	FIRE RATED DOOR AND FRAME PRIME AND PAINT. $\overline{\langle PT-4 \rangle}$						
	EXST PURLIN TO REMAIN. PRIME & PAINT. $\overline{PT-3}$						
	COLUMN FURRING. PRIME, PAINT, AND INSTALL RUBBER BASE ALL SIDES $\sqrt{PT-4}$ $\sqrt{RB-1}$						
	CAST IN PLACE CONCRETE FRAME, SEE STRUCT DRAWINGS.						
(13)							
	LEGEND (THIS SHEET)						
	CMU GYP BD WALL PARTITON						
REVISION NO.	SYM. DESCRIPTION SHT./OF DATE APPROVED						
110.	STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION						
FRE	LICENSED PROFESSIONAL ARCHITECT						
	INTERIOR ELEVATIONS						
THIS LI	CENSE EXPIRES APRIL 30, 2024 DESIGNED: KK SUBMITTED:						
here	CR. E. DRAWN: KA, TW, WL DATE: NOVEMBER 2022						
SUPERVISION	AD CONSTUNCTION OF THIS PROVED: AND CONSTUNCTION OF THIS PROVED: Carty Chang E-signed 2022-11-28 04:17PM HST						
PROFESSIONAL AND LANDSCA	DMINISTRATIVE RULLES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED LENGINEERS, ARCHITECTS, SURVEYORS PE ARCHITECTS). EHIEF ENGINEER CHIEF ENGINEER CHIEF ENGINEER						
اC	DB NO. E00BH30A SHEET State of Hawaii DB NO. E00BH30A SHEET NO. 37 OF 77 SHEETS						

DOOR SCHEDULE	WINDOW & LOUVER SCHEDULE	
5 0.3 CONFERENCE ROOM A 36 84 1.75 SC WD 1 / WD ST 5 3 3 7 6 06 RESTROM A 36 84 1.75 SC WD 1 / WD ST 10 3 3 7 7 07 UTILITY ROOM A 36 84 1.75 SC WD 1 / WD ST 7 3 3 9 8 09 BREAK ROOM A 36 84 1.75 SC WD 1 / WD ST 6 3 3 7 9 NOT USED 1 / WD ST 8 3 3 7 10 11 MANAGEN'S OFFICE A 36 84 1.75 SC WD 1 / WD ST 8 3 3 7 11 12	REMARKS KEYPAD ACCESS, HDWR BY MFR KEYPAD ACCESS	WINDOW TYPE WINDOW SIZE CONSTRUCTION/FINISH FIRE WINDOW DETALS (SEE SHT A-701) NO. (INC1) (INC1) (INC1) GLAZ/LVR TRAME TINISH RAIING ILAD JAVB VULLION SILL RUMARAS 1 B 60 56 26 GL-2 AL DK 32 3 (SIN) 7 (SIN) 11 (SIN) NSECT SCREEN, SEE NOTES 4 & 5 2 B 40 -/8 34 GL-2 AL DK 32 3 7 7 11 NSECT SCREEN, SEE NOTES 4 & 5 2 B 40 -/8 34 GL-2 AL DK 32 3 7 7 11 NSECT SCREEN, SEE NOTE 4 3 B 80 48 34 GL-2 AL DK 32 3 7 7 11 NSECT SCREEN, SEE NOTE 4 4 B 80 48 34 GL-2 AL DK 32 3
NOTE: 1. SALE NORMALED WAR FOR DESIGN REFERENCE. CONTRACTOR SPAIL VEHITY ON-SITE CONTINUENTIAL DEDICITIES ON DECASIONS OF DEPENDENCE. 2. Instantion of Mark State Contraction Spail, Vehity ON-Site Control on DECASIONS of Decision DECASION ACTION SPACE CONTRACTOR 3. ALL CASES IN COSTS SHALL BE SAFETY DECADER ON DECASION DECASION DECASION OF CONTRACTOR 2. Instantian State Control a Vita of Decasion DECA		ADDES 1. PERVACE DATABLE TREAL ASS SATETY SECOND (THE CARACTERS) 2. STE FORTER R. ALTERES FOR ASSACTIVE CONFIGR AND ONS 3. STE STATUS ARE HON LESSE AREASEN. 4. A STE STATUS ARE HON LESSE AREASEN. 4. A STE STATUS ARE HON LESSE AREASEN. 4. A STE STATUS AREA HON LESSE AREASEN. 5. STE STATUS AND HAR HON LESSE AREASEN. 6. A STE STATUS AND HAR HON LESSE AREASEN. 6. STE STATUS AND HAR HOND LESSE AREASEN. 6. STE STATUS AND HAR HOND LESSE AREASENTS 6. STE STATUS AND HAR HOND HEN STATUS AREASENTS 6. ANDER HAR HOND HEN STATUS AREASENTS 6. ANDER HAR HAR HAR HAR HAR HAR HAR HAR HAR HA
3 STOREFRONT 3 SCALE: NOT TO SCALE	Image: With the second sec	REVISION NO. SYM. DESCRIPTION SHT.JOF DATE APPROVED NO. STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ULCENSE FROFESSIONLING FROFESSIONLING FROFESSIONLING FROFESSIONLING FROFESSIONLING FROFESSIONLING FROFESSIONLING FROM HAWAII DISTRICT LAND OFFICE HILO. HAWAI'I HAWAII DISTRICT LAND OFFICE HILO. HAWAI'I DOOR AND WINDOW SCHEDULE HILO. HAWAI'I DOOR AND WINDOW SCHEDULE THE NEW FORMS FROM TO MERSION FROM THE NEW FORMS FROM TO MERSION FROM THE NEW FORMS FROM TO MERSION FROM THE NEW FORMS FROM TO MERSION FOR WINNE KA, TW, WL DATE: NOVEMBER 2022 DHEOREM FROM THE NEW FORMS FROM TO MERSION FOR WINNE WAS FROM THE NEW FORMS FROM TO MERSION FOR WINNE WAS FROM THE NEW FORMS FROM TO MERSION FOR WINNE WAS FROM THE NEW FORMS FROM TO MERSION FOR WINNE WAS FROM THE NEW FORMS FROM TO MERSION FOR WINNE WAS FROM THE NEW FORMS FROM TO MERSION FOR WINNE WAS FROM THE NEW FORMS FROM TO MERSION FROM THE NEW FORMS FROM THE NEW FORMS FROM TO MERSION FROM THE NEW FORMS FROM THE NEW FORMS FROM TO MERSION FROM THE NEW FORMS FROM THE NEW FORM THE NEW FORMS FROM THE NEW FORMS FROM THE NEW FORMS

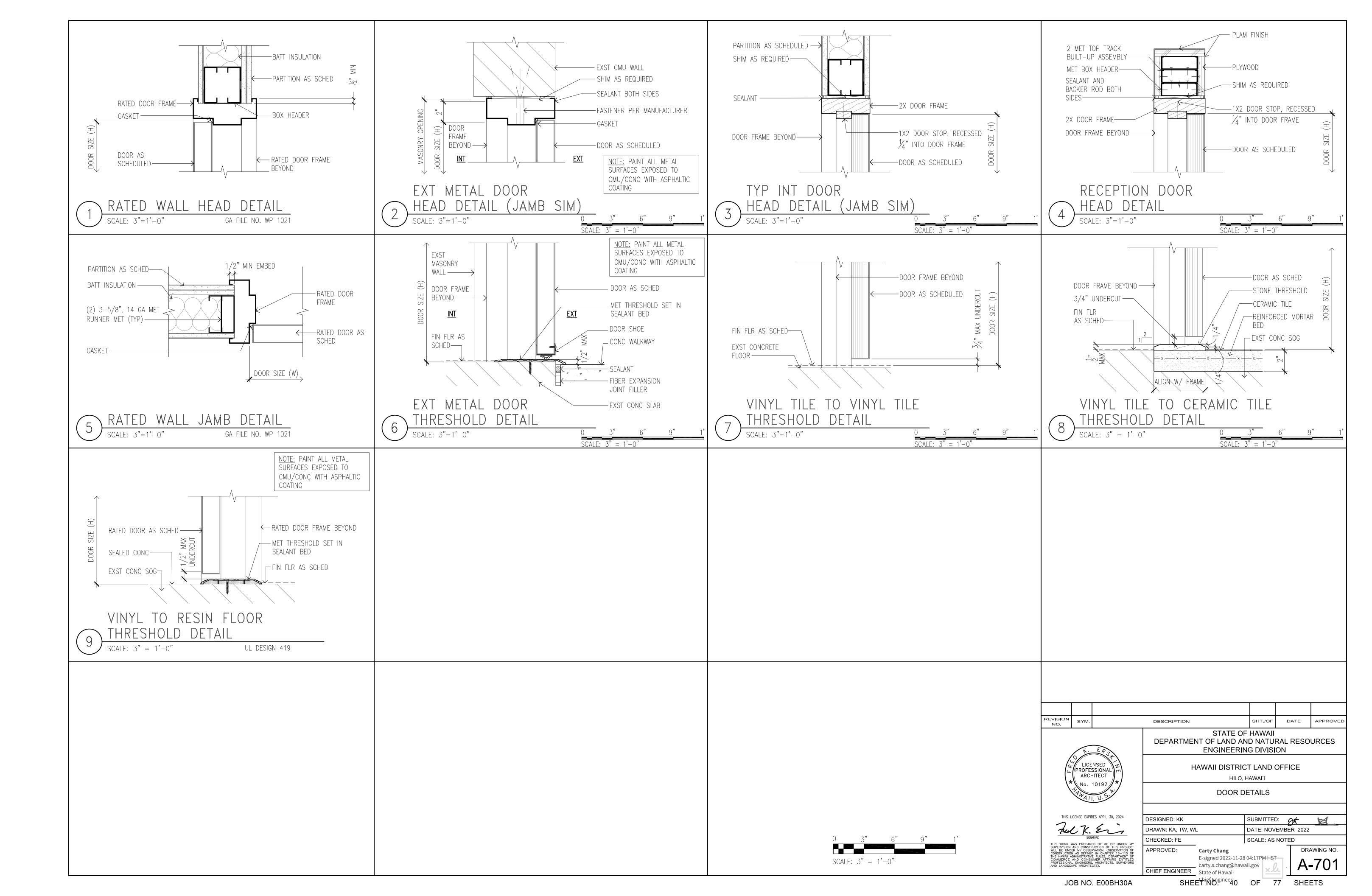
	ALUMINUM
JL	INSULATED GLAZING
1	LAMINATED GLASS
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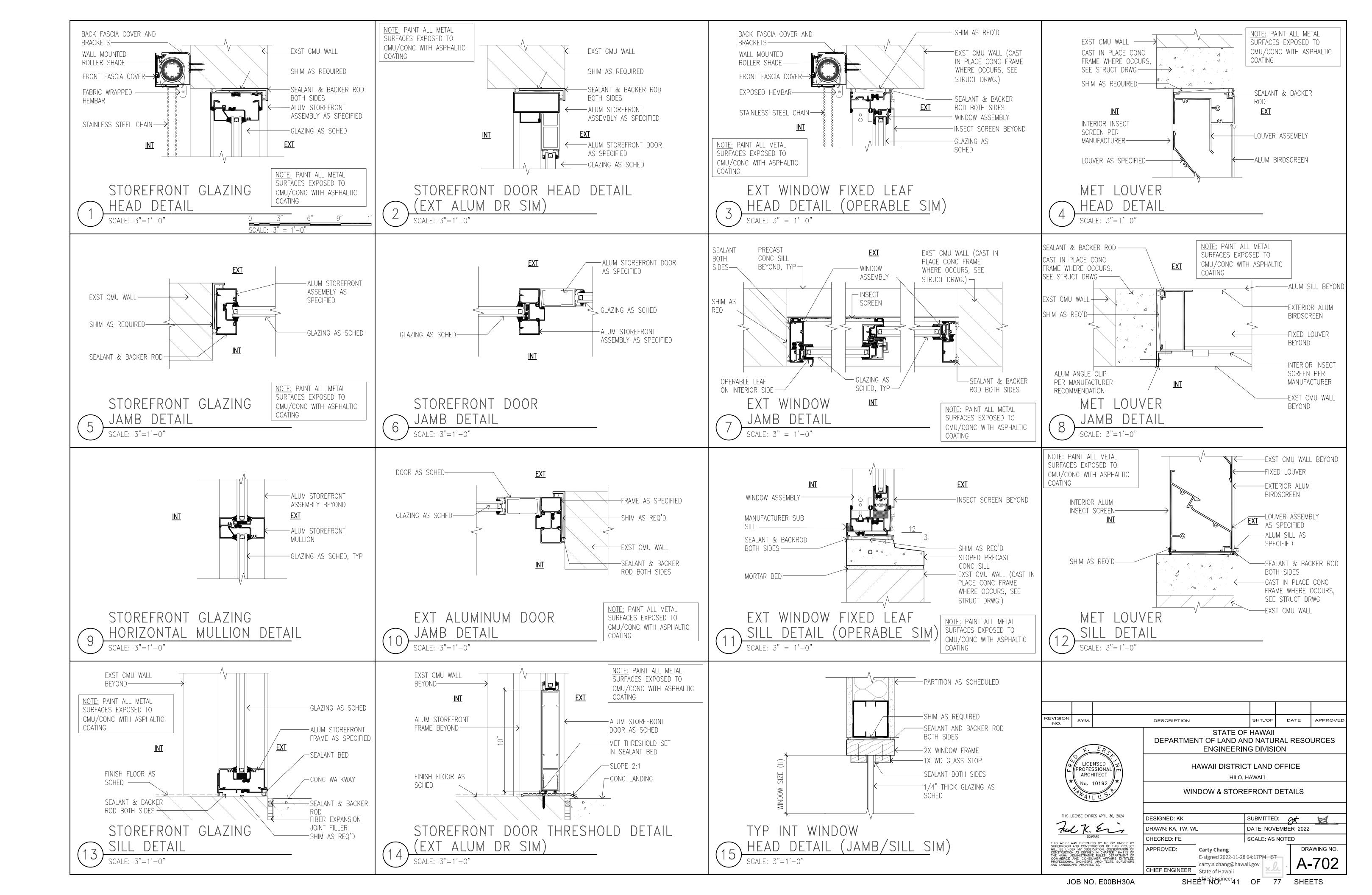
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L X	No. THANAI	10192 ★ , U.S. N.	DOOR AND WINDOW SCHEDULE					
THIS L	ICENSE EXPIF	RES APRIL 30, 2024	DESIGNED: KK		SUBMITTE	D: At	×	
here	LK.	En	DRAWN: KA, TW, W	DATE: NOVEMBER 2022				
		ATURE	CHECKED: FE		SCALE: AS	NOTED		
SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF		APPROVED:	Carty Chang			AWING NO.		
AND LANDSC	L ENGINEERS	E RULES, DEPARTMENT OF MER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 carty.s.chang@hawa State of Hawaii			-601	
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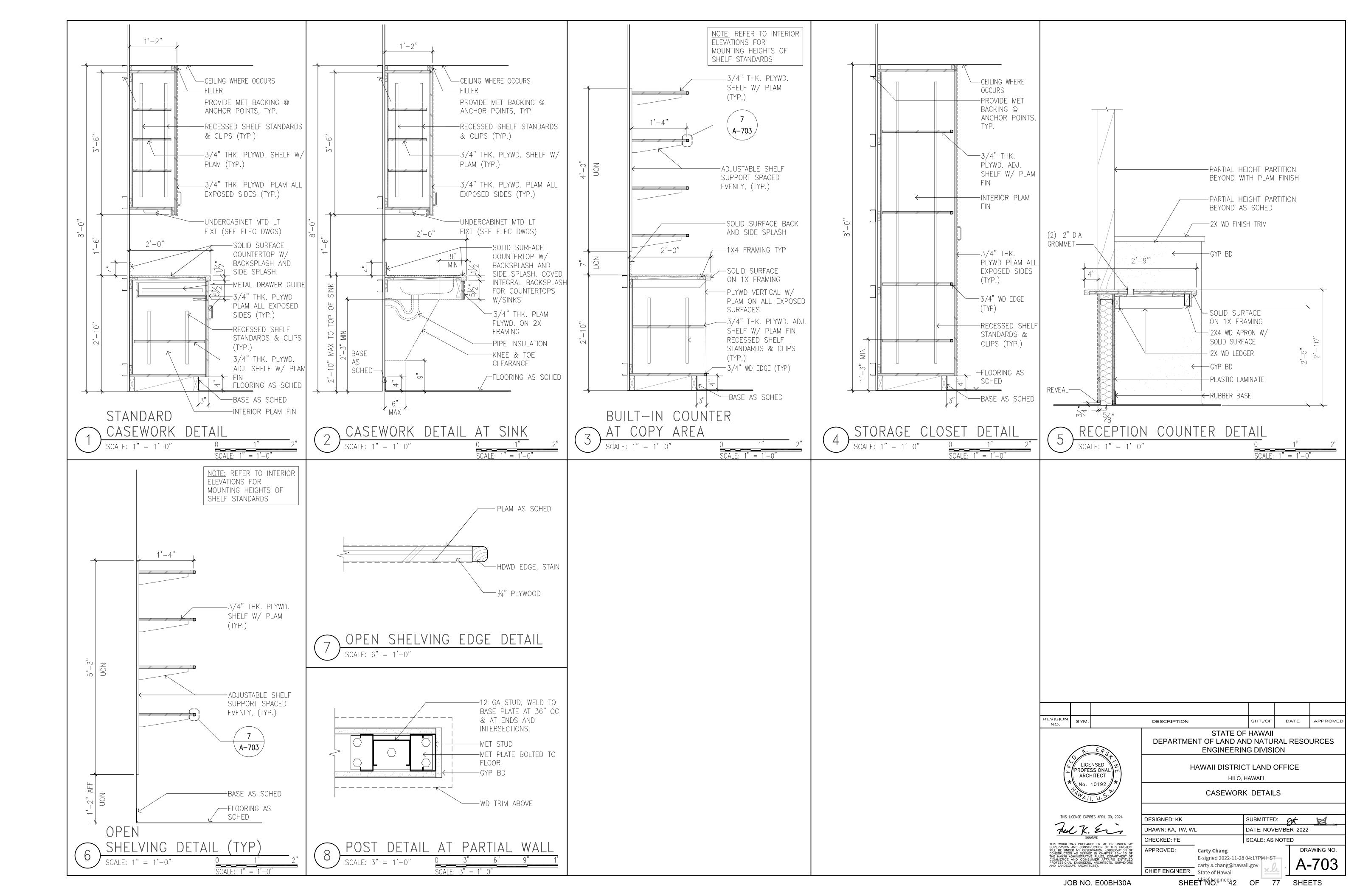


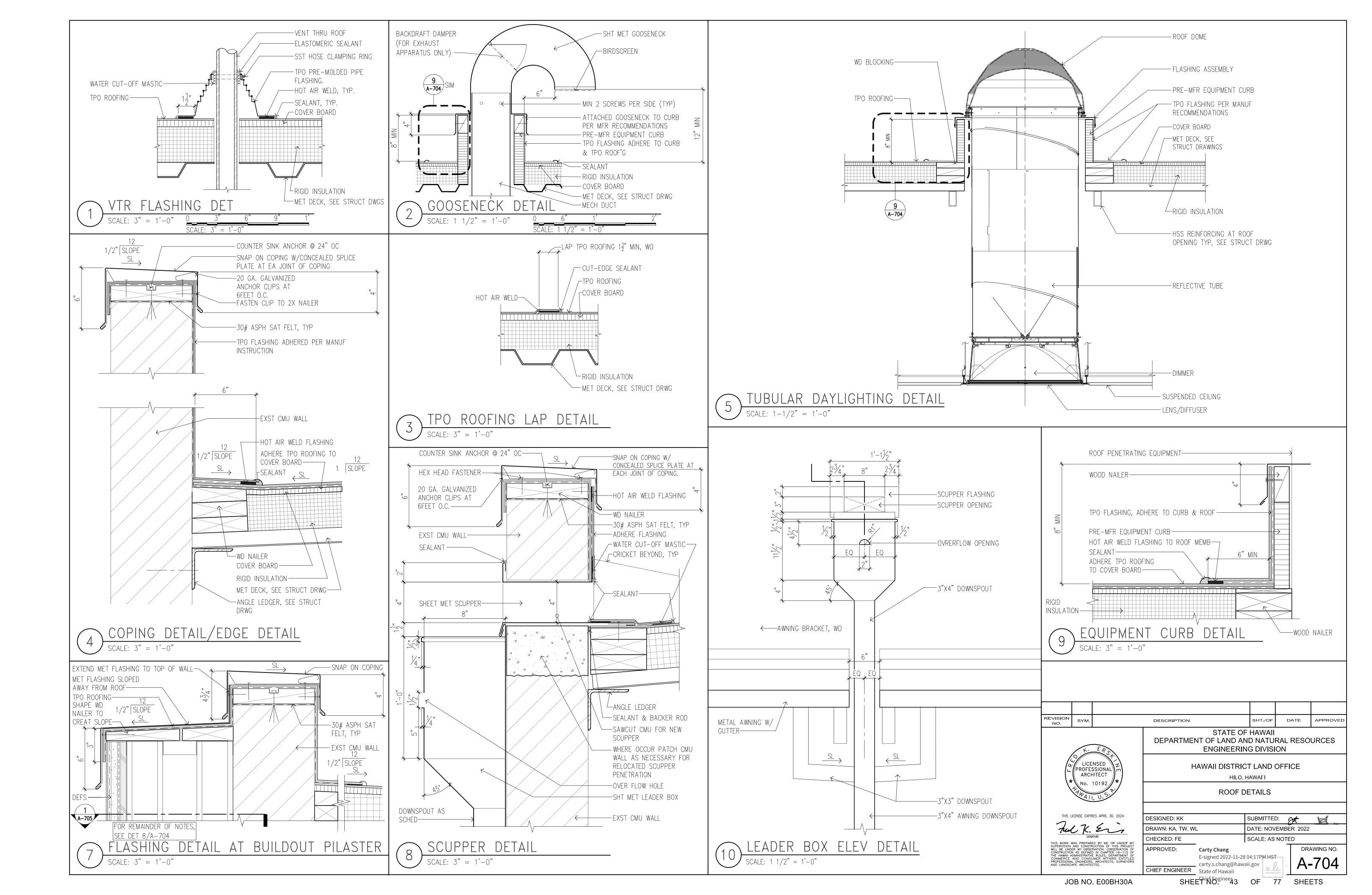
ISH SCHEI	DULE	
PATT	ERN/STYLE/FINISH	REMARKS
STANDARD EXC	ELON IMPERIAL TEXTURE	W/DIAMOND 10 TECHNOLOGY COATING
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2" HEXAGON M	OSAIC	
3x6 WALL/RITT	ENHOUSE SQUARE	RUNNING BOND PATTERN
TRADITIONAL W	all base	
MATTE FINISH		
		EXT CMU WALL – FIELD
		EXT DEFS WALL – ENTRANCE
		INT STRUCTURE – RIGID FRAMING, PURLINS, DIAGONAL RODS,
		ANGLE LEDGER
		INT WALLS- FIELD, CEILING
CLEAR MATTE		INTERIOR DOORS, FRAMES, WOOD TRIM
CLEAR MATTE		INTERIOR CMU WALL
COMFORTFLOR		WAREHOUSE AND UTILITY ROOM FLOOR
HI-MACS		COUNTERTOP SURFACES
STANDARD		EXT METAL – AWNINGS, FLASHING, FRAMES, DOWNSPOUTS

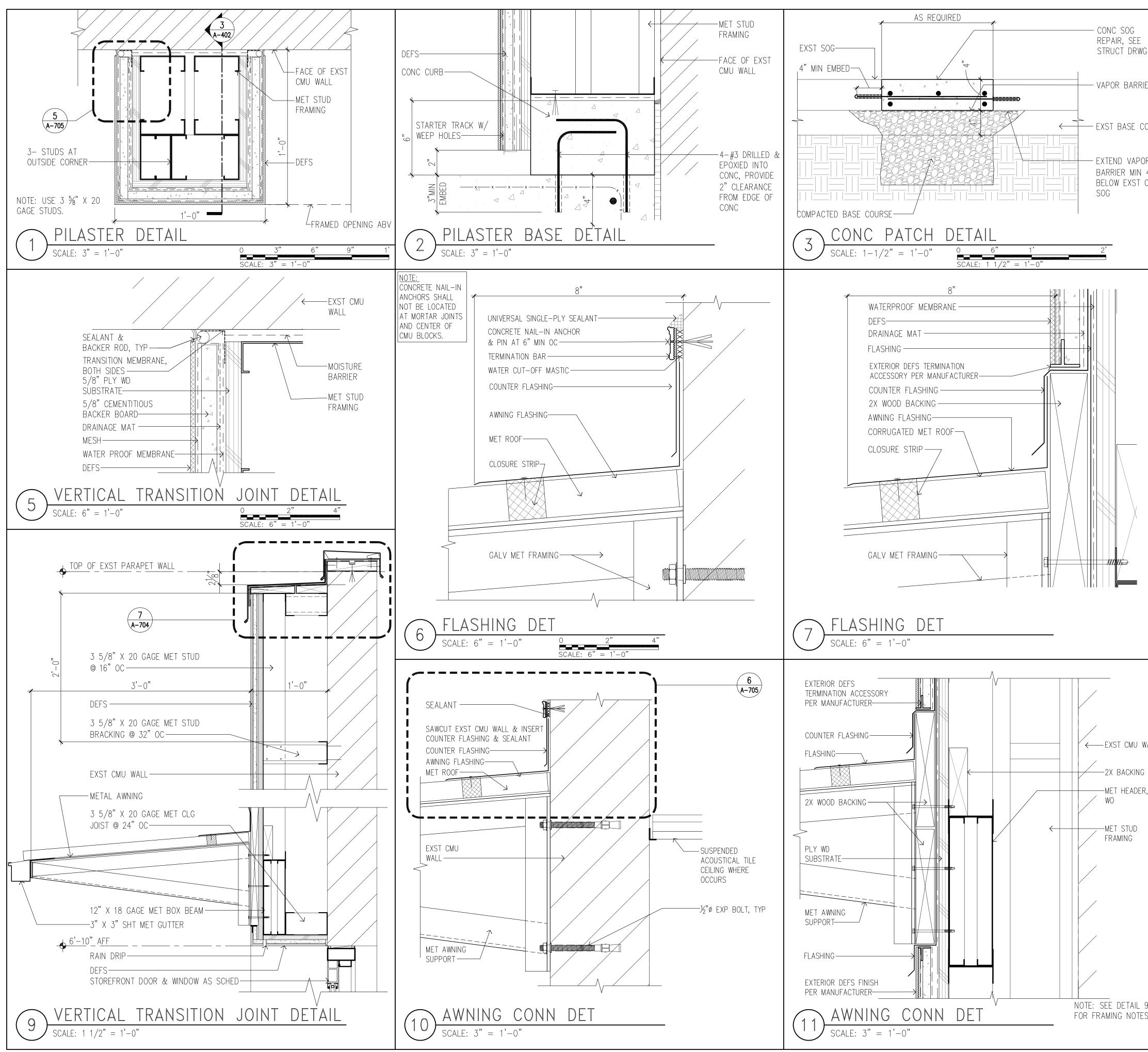
REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED	
	Κ.	ERS	STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
LICENSED PROFESSIONAL ARCHITECT		HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I						
* No. 10192 * WAII, U.S.	SIGNAGE SCHEDULES & DETAILS							
This I	ICENSE EXPIF	RES APRIL 30, 2024						
2	17	5	DESIGNED: KK DRAWN: KA, TW, W	1		D: 07 MER 2022	R.	
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THIS WORK V SUPERVISION WILL BE UND CONSTRUCTION THE HAWAII A COMMERCE PROFESSIONAI AND LANDSC/	VAS PREPARI AND CONSTR ER MY OBSEI N AS DEFINEI DMINISTRATIVI AND CONSU L ENGINEERS APE ARCHITE	ED BY ME OR UNDER MY VUCTION OF THIS PROJECT VATION. (OBSERVATION OF) IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	APPROVED:	Carty Chang E-signed 2022-11-28 carty.s.chang@hawa State of Hawaii	04:17PM HS1		WING NO.	
JC	DB NO	. E00BH30A	SHE	E ^{fhinf Enginee} 39	OF 7	77 SHEE	ETS	



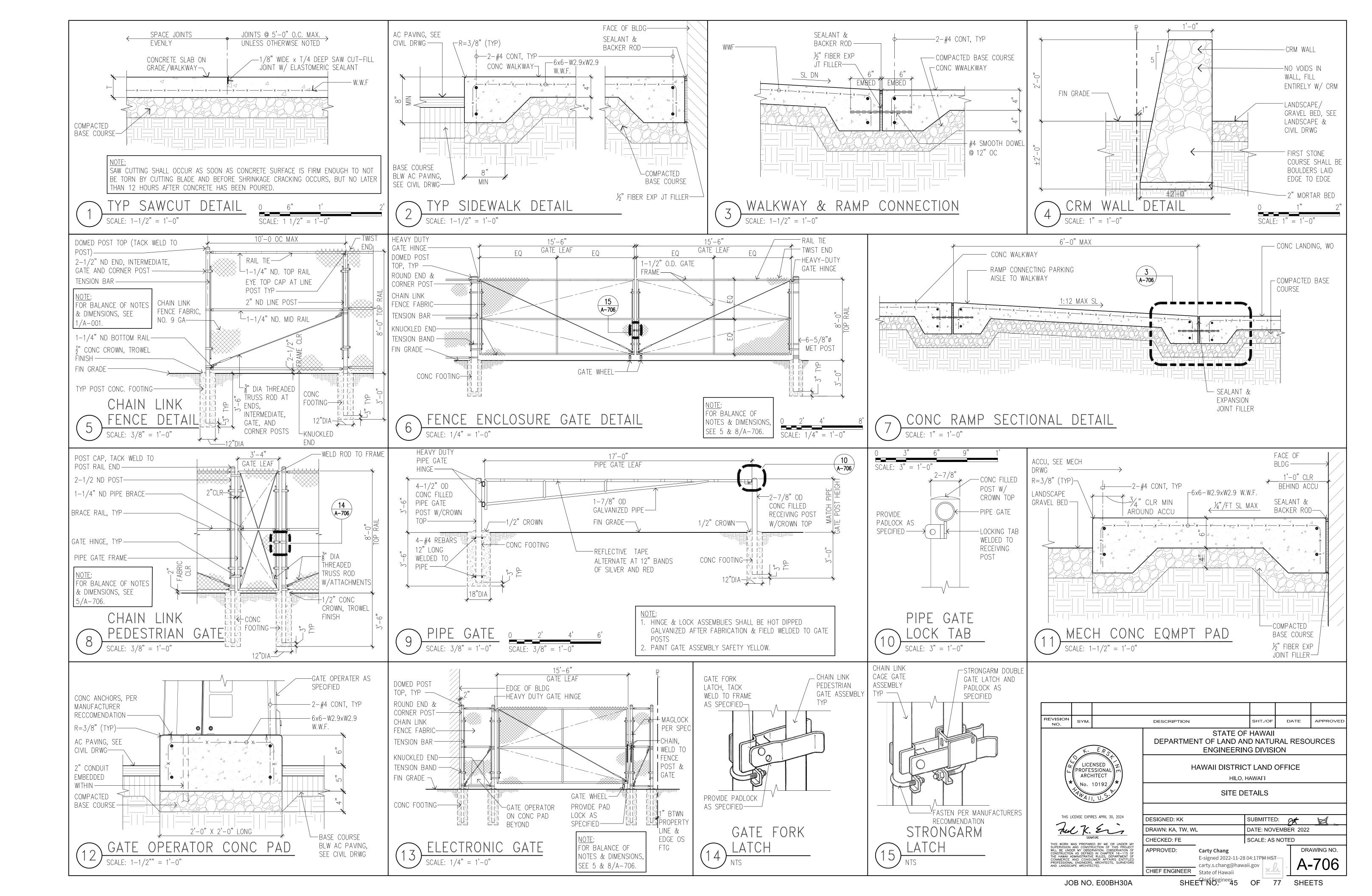








	EXST STRUCTURAL	EXST CMU WALL
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	NO. SYM.	DESCRIPTION SHT./OF DATE APPROVED STATE OF HAWAII
	K. ERS	DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION
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	k PROFESSIONAL ARCHITECT ★ No. 10192 ★	HILO, HAWAI'I
	No. 10192 N. N. N	MISC DETAILS
		DESIGNED: KK SUBMITTED: OF SUB
9/A-705 S.	SIGNATURE	CHECKED: FE SCALE: AS NOTED
	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16–115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).	APPROVED: Carty Chang E-signed 2022-11-28 04:17PM HST carty.s.chang@hawaii.gov
	AND BANDSOALE ANOTHEOUS).	Chief Engineer
		SHEET NO. 44 OF 77 SHEETS



<u>Gen</u>	IERAL:	<u>CONCRETE (CONT'D):</u>
Α.	WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE STATE BUILDING CODE OF HAWAII (IBC, 2006 EDITION AS AMENDED BY THE COUNTY OF HAWAII). HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.	G. THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SH STRESSES. SUBMIT LOCATION OF CONSTRUCTION JOINTS TO TH FOR APPROVAL, UNLESS OTHERWISE NOTED.
Β.	THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.	H. SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, EDGE RADII, DF REGLETS, FINISHES AND OTHER NON-STRUCTURAL ITEMS NOT S SPECIFIED ON THE STRUCTURAL DRAWINGS.
C.	THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.	I. NON-SHRINK GROUT SHALL BE A PREMIXED NON-METALLIC FOR CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH (IN 1 DAY AND 5,000 PSI IN 28 DAYS.
D.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.	 J. THE STATE SHALL BE NOTIFIED AT LEAST 3 WORKING DAYS PR CONCRETE POUR. NO CONCRETE SHALL BE POURED PRIOR TO (BY THE ARCHITECT OR HIS REPRESENTATIVE. K. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER
E.	CONSTRUCTION LOADING SHALL NOT EXCEED DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. ALLOWABLE LOADS SHALL BE REDUCED IN AREAS WHERE THE STRUCTURE HAS NOT ATTAINED FULL DESIGN STRENGTH.	REVIEW: A. CONCRETE MIX DESIGNS SHALL BE PREPARED FOR EACH T` STRENGTH OF CONCRETE REQUIRED, DETERMINED BY EITHEF LABORATORY TRIAL MIX OR FIELD DATA BASES, AS FOLLOW
F.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.	 NORMAL WEIGHT CONCRETE SHALL BE PROPORTIONED A TO ACI 211.1 AND ACI 301. CONCRETE FOR FOUNDATIONS SHALL HAVE A 5" MAXIMU CONCRETE FOR SLABS-ON-GRADE SHALL HAVE A MINI
G.	DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.	CONTENT OF 470 LBS/C.Y. AND A 4" MAXIMUM SLUMP L. TESTING AGENCY: THE CONTRACTOR SHALL ENGAGE A QUALFI
Н.	THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS.	INDEPENDENT TESTING AND INSPECTION AGENCY TO SAMPLE MA PERFORM TESTS DURING CONCRETE PLACEMENT, AND SUBMIT T REPORTS. TESTING SERVICES SHALL INCLUDE: TESTING OF CO SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM THE FOLLOWING REQUIREMENTS:
<u>DES</u>	SIGN CRITERIA:	A. TESTING FREQUENCY: ONE COMPOSITE SAMPLE SHALL BE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING
Α.	OCCUPANCY CATEGORY II	LESS THAN 25 C.Y., PLUS ONE SET FOR EACH ADDITIONAL FRACTION THEREOF. B. SLUMP TESTS SHALL BE PERFORMED PER ASTM C143. ON
Β.	SEISMIC A. SEISMIC IMPORTANCE FACTOR: 1.00 B. MAPPED SPECTRAL RESPONSE ACCELERATIONS: 1.500	SHALL BE MADE AT THE POINT OF PLACEMENT FOR EACH SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S EACH CONCRETE MIX. ADDITIONAL TESTS SHALL BE PERFC
	A. SS 1.500 B. S1 0.600 C. SPECTRAL RESPONSE COEFFICIENTS 1.000 A. SDS 1.000 B. SD1 0.6 D. SEISMIC DESIGN CATEGORY: D	CONCRETE CONSISTENCY APPEARS TO CHANGE. C. COMPRESSION TEST SPECIMENS SHALL CONFORM TO ASTM SET OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH SAMPLE SHALL BE CAST AND LABORATORY CURED. COMPI STRENGTH TESTS SHALL CONFORM TO ASTM C39. ONE LA CURED SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO AT 2
C.	WIND A. BASIC WIND SPEED – 3 SECOND GUST — 105 MPH B. WIND IMPORTANCE FACTOR & BUILDING CATEGORY — 1.00 C. WIND EXPOSURE CATEGORY — B	AND ONE RETAINED FOR LATER TESTING IF REQUIRED. D. COST OF TESTING WILL BE BORNE BY THE CONTRACTOR <u>REINFORCING STEEL:</u>
	D. Kzt 1.0 E. Kd 0.7 F. COMPONENTS AND CLADDING 19 PSF G. INTERNAL PRESSURE COEFFICIENT 0.18	A. REINFORCING STEEL (FOR NORMAL USE, NOT WELDED) SHALL BI BARS CONFORMING TO ASTM A615, GRADE 60.
D.	DESIGN LIVE LOADS A. ROOF 20 PSF	 B. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS UNLESS OTHERWISE NOTED: A. FOOTINGS, GRADE BEAMS, ETC. CAST AGAINST EARTH — B. FOOTINGS, GRADE BEAMS, ETC. FORMED AND EXPOSED
	<u>ICRETE:</u>	TO EARTH OR WEATHER
Α.	CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE ACI 318R-05.	A MASONRY UNIT SHALL BE NOT LESS THAN 1/2 INCH, UNLESS NOTED.
Β.	CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK CONCRETE AND SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS: A. FOUNDATION RETROFIT	D. REINFORCING STEEL SHALL BE SPLICED WHERE INDICATED ON P PROVIDE LAP SPLICE LENGTH PER TYPICAL DETAILS AND SCHED OTHERWISE NOTED.
C	C. ALL OTHER CONCRETE 3,000 PSI CONCRETE DELIVERY TICKETS SHALL RECORD ALL FREE WATER IN THE MIX:	E. BAR LAPS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM S SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
С.	AT BATCHING BY PLANT, FOR CONSISTENCY BY DRIVER, AND ANY ADDITIONAL REQUEST BY CONTRACTOR IF PERMITTED BY THE MIX DESIGN.	F. BAR BENDS AND HOOKS SHALL BE "STANDARD HOOKS" IN ACC
D.	ALL INSERTS, ANCHOR BOLTS, PLATES, AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE NOTED.	WITH ACI 318. G. WELDING OF REINFORCING STEEL IS NOT PERMITTED.
E.	REINFORCING BARS, ANCHOR BOLTS, INSERTS, AND OTHER ITEMS TO BE	CONCRETE MASONRY UNITS (CMU):
	CAST IN THE CONCRETE SHALL BE SECURED IN POSITION PRIOR TO PLACEMENT OF CONCRETE.	A. REINFORCED MASONRY ASSEMBLIES SHALL HAVE A MINIMUM CO STRENGTH OF 1500 PSI.
F.	CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB OR FOOTING AND NOT CONFORMING TO TYPICAL DETAILS SHALL BE LOCATED AND	B. CONCRETE MASONRY UNITS SHALL BE TYPE II, NORMAL WEIGHT LOAD-BEARING UNITS CONFORMING TO ASTM C-90 AND HAVE
	SUBMITTED TO THE ARCHITECT FOR APPROVAL.	COMPRESSIVE STRENGTH OF 1,900 PSI.

TRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE SUBMIT LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT PROVAL. UNLESS OTHERWISE NOTED.

HITECTURAL DRAWINGS FOR CHAMFERS, EDGE RADII, DRIPS, FINISHES AND OTHER NON-STRUCTURAL ITEMS NOT SHOWN OR ON THE STRUCTURAL DRAWINGS.

RINK GROUT SHALL BE A PREMIXED NON-METALLIC FORMULA, OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AND 5,000 PSI IN 28 DAYS.

TE SHALL BE NOTIFIED AT LEAST 3 WORKING DAYS PRIOR TO ANY E POUR. NO CONCRETE SHALL BE POURED PRIOR TO OBSERVATION ARCHITECT OR HIS REPRESENTATIVE.

LOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR

CRETE MIX DESIGNS SHALL BE PREPARED FOR EACH TYPE AND ENGTH OF CONCRETE REQUIRED, DETERMINED BY EITHER ORATORY TRIAL MIX OR FIELD DATA BASES, AS FOLLOWS: NORMAL WEIGHT CONCRETE SHALL BE PROPORTIONED ACCORDING TO ACI 211.1 AND ACI 301. ONCRETE FOR FOUNDATIONS SHALL HAVE A 5" MAXIMUM SLUMP. CONCRETE FOR SLABS-ON-GRADE SHALL HAVE A MINIMUM CEMENT

AGENCY: THE CONTRACTOR SHALL ENGAGE A QUALFIED DENT TESTING AND INSPECTION AGENCY TO SAMPLE MATERIALS AND TESTS DURING CONCRETE PLACEMENT, AND SUBMIT TEST TESTING SERVICES SHALL INCLUDE: TESTING OF COMPOSITE

OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C172 TO _OWING REQUIREMENTS:

TING FREQUENCY: ONE COMPOSITE SAMPLE SHALL BE OBTAINED EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 C.Y. BUT THAN 25 C.Y., PLUS ONE SET FOR EACH ADDITIONAL 50 C.Y. OR CTION THEREOF.

MP TESTS SHALL BE PERFORMED PER ASTM C143. ONE TEST L BE MADE AT THE POINT OF PLACEMENT FOR EACH COMPOSITE PLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF CONCRETE MIX. ADDITIONAL TESTS SHALL BE PERFORMED WHEN CRETE CONSISTENCY APPEARS TO CHANGE.

PRESSION TEST SPECIMENS SHALL CONFORM TO ASTM C31. ONE OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE PLE SHALL BE CAST AND LABORATORY CURED. COMPRESSIVE INGTH TESTS SHALL CONFORM TO ASTM C39. ONE LABORATORY ED SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS, ONE RETAINED FOR LATER TESTING IF REQUIRED. OF TESTING WILL BE BORNE BY THE CONTRACTOR

STEEL:

CING STEEL (FOR NORMAL USE, NOT WELDED) SHALL BE DEFORMED NFORMING TO ASTM A615. GRADE 60.

CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS. OTHERWISE NOTED:

TINGS,	GRADE BEAMS,	ETC.	CAST AGAINST EARTH	3"
TINGS,	GRADE BEAMS,	ETC.	FORMED AND EXPOSED	
EARTH	OR WEATHER -			2"

ISTANCE BETWEEN THE SURFACE OF A BAR AND ANY SURFACE OF NRY UNIT SHALL BE NOT LESS THAN 1/2 INCH, UNLESS OTHERWISE

CING STEEL SHALL BE SPLICED WHERE INDICATED ON PLANS. LAP SPLICE LENGTH PER TYPICAL DETAILS AND SCHEDULE, UNLESS SE NOTED.

'S SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS. SHALL BE STAGGERED WHERE POSSIBLE.

IDS AND HOOKS SHALL BE "STANDARD HOOKS" IN ACCORDANCE 318.

ASONRY UNITS (CMU):

CED MASONRY ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE H OF 1500 PSI.

E MASONRY UNITS SHALL BE TYPE II, NORMAL WEIGHT HOLLOW EARING UNITS CONFORMING TO ASTM C-90 AND HAVE A MINIMUM SSIVE STRENGTH OF 1,900 PSI.

SHALL BE TYPE "M" CONFORMING TO ASTM C270 AND HAVE A COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

CONCRETE MASONRY UNITS (CMU) (CONT'D):

- D. GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- E. ALL CELLS AND BOND COURSES WITH REINFORCEMENT AND INSERTS SHALL BE SOLID GROUTED. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5'-4" IN HEIGHT.
- F. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1 1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.
- G. THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE STRESSES.
- H. WALLS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND, UNLESS OTHERWISE NOTED.
- I. MATCH EXISTING CMU WALL LAYING PATTERN, HEIGHT OF UNITS, SURFACE TEXTURE, AND JOINT TYPE.
- J. UNLESS OTHERWISE NOTED, CMU WALLS SHALL BE REINFORCED AS FOLLOWS:
- K. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW:
 - A. STEEL REINFORCEMENT SHOP DRAWINGS WHICH SHALL INCLUDE DETAILS OF FABRICATION, BENDING, PLACEMENT, MATERIAL, GRADE, SCHEDULES, AND BENDS, PREPARED ACCORDING TO ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
 - B. MATERIAL CERTIFICATES, SIGNED BY MANUFACTURERS CERTIFYING THAT THE MATERIAL AND GRADE INDICATED FOR REINFORCING BARS COMPLY WITH THE REQUIREMENTS.

EPOXIED ANCHOR INSTALLATIONS:

- A. EPOXY USED FOR ANCHORING THREADED RODS AND REINFORCING STEEL INTO EXISTING CONCRETE OR FULLY GROUTED MASONRY SHALL BE HILTI HIT-HY 200 - A OR - R SYSTEM, SIMPSON SET-XP SYSTEM, OR APPROVED EQUAL, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- B. THE CONTRACTOR SHALL VERIFY THAT DRILLED ANCHORS ARE INSTALLED IN SOLID/FULLY GROUTED EXISTING MASONRY WALLS/CELLS. WHERE WALLS/CELLS ARE NOT FULLY GROUTED, THEY SHALL BE GROUTED WITH GROUT CONFORMING TO ASTM C476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS. TO PROVIDE A MINIMUM OF 8 INCHES ALL AROUND EACH ANCHOR INSTALLATION, UNLESS OTHERWISE NOTED.
- C. ANCHORS SHALL BE INSTALLED WITH THE MINIMUM EMBEDMENT REQUIREMENTS AS INDICATED ON THE DRAWINGS.

8 INCHES THICK #4@24" O.C. VERTICAL REINF 2-#4@48" HORIZ REINF

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED
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			HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I				
	No. 17	381-S U.S.M.	GENERAL NOTES				
			DESIGNED: BC	I	SUBMITTE		
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	5 82-344 - C+ 3	smo Ling	DRAWN: IB		DATE: NO\	/ 2022	
THIS WORK V	VAS PREPAR	ATURE ED BY ME OR UNDER MY	CHECKED: BC	I	SCALE: AS	NOTED	
SUPERVISION WILL BE UND CONSTRUCTION	AND CONSTR ER MY OBSEI N AS DEFINEI	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED:	Carty Chang		DR/	AWING NO.
THE HAWAII A COMMERCE PROFESSIONA AND LANDSC	DMINISTRATIV AND CONSU L ENGINEERS APE ARCHITE	NUCTION OF THIS PROJECT XVATION. (OBSERVATION OF) IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 carty.s.chang@hawa State of Hawaii		2 S-	-001
	JOB NO. E00BH30A				OF	77 SHEE	ETS

٨	AL DECK:		<u>ECIAL INSPEC</u>
	METAL DECK AND ACCESSORIES SHALL BE OF THE TYPE AND GAGE CALLED FOR ON THE DRAWINGS.		THAT SPECI. BY THE BUI
Β.	METAL DECK AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM 653 SQ GRADE 33, MINIMUM YIELD STRENGTH 33 KSI, WITH G60 GALVANIZED COATING.		APPROPRIAT WHEN AND FOR THE IN WORK AT N
C.	DECK SHALL BE THREE SPAN CONTINUOUS WHERE POSSIBLE. DO NOT LOCATE SINGLE SPANS AT EDGES OR CORNERS.	R	RE-INSPECT
Э.	MINIMUM BEARING OF DECKING ON SUPPORTS SHALL BE 2 INCHES.	D.	A. MASONR` B. SPECIAL
E.	SCREW FASTENING OF METAL ROOF DECK A. SEE ROOF FRAMING PLAN FOR EXTENT AND ORIENTATION OF METAL		REINFORC CONCRET
	 DECK. B. AT EACH SUPPORT, PROVIDE MINIMUM 4-#12 TRAXX SCREWS PER 36" WIDTH OF DECK UNLESS OTHERWISE NOTED. C. AT EACH SUPPORT, AT OVERLAPPING SEAMS, PROVIDE MINIMUM 1-#12 	C.	SPECIAL INS REINFORCINO WITH F'C =
	TRAXX SCREW. D. ALONG SEAMS AND ALONG ALL EDGE AND PERIMETER SUPPORTS, PROVIDE MINIMUM #12 TRAXX SCREWS AT 6" ON CENTERS.	D.	THE SPECIA STATE, LICE STATE-DESI
F.	THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW:A. SHOP DRAWINGS DETAILING LAYOUT OF METAL DECK, CONNECTIONS, FASTENING, AND OTHER PERTINENT DATA.B. MILL TEST REPORTS SIGNED BY MANUFACTURERS CERTIFYING THAT THE MATERIALS AND OTHER COMPONENTS COMPLY WITH REQUIREMENTS.		INSPECTED DOCUMENTS REPORT TO RECORD, ST WAS, TO TH TO THE APP
<u>STR</u>	UCTURAL STEEL:		WORKMANSH INSPECTION
Α.	FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION.		LICENSED EN WRITTEN ST. REPORTS AN REQUIREMEN
В.	STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED.	E.	
C.	STEEL WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A992.		REQUIREMEN CONSTRUCTI
Э.	STEEL CHANNELS, S, M AND HP SHAPES SHALL CONFORM TO ASTM A36.		ACCESSIBLE
E.	BOLTS FOR STRUCTURAL STEEL TO STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A307, GRADE A UNLESS OTHERWISE NOTED.		<u>ABBREVIATION</u>
F.	THREADED RODS SHALL CONFORM TO ASTM F1554 GRADE 36 UNLESS OTHERWISE NOTED.		ARCH BLW BOT
G.	ANCHOR RODS FOR STRUCTURAL STEEL TO CONCRETE PEDESTAL OR FOOTING ANCHORAGE SHALL CONFORM TO ASTM F1554 GRADE 36 OTHERWISE NOTED.		CMU CONC DBL
Н.	WELDS AND WELDING PROCEDURES SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1 OF THE AMERICAN WELDING SOCIETY.		DMG — DWG — EQ — OVG — O
Ι.	WELDING SHALL BE PERFORMED BY WELDERS PREQUALIFIED FOR WELDING PROCEDURES TO BE USED.		FTG
J.	WELDING ELECTRODES SHALL BE E70XX.		MECH ——— REINF ——— THK ———
K.	ALL STEEL SHALL BE PRIME PAINTED IN THE SHOP.		TYP
L.	EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.		w/
М.	 THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW: A. SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS INCLUDING DETAILS OF CUTS, CONNECTIONS, HOLES; WELDS; TYPE, SIZE AND LENGTH OF BOLTS; AND OTHER PERTINENT DATA. B. CURRENT WELDER'S CERTIFICATION OF EACH INDIVIDUAL PERFORMING WELDING WORK. 		
	C. MILL TEST REPORTS SIGNED BY MANUFACTURERS CERTIFYING THAT STRUCTURAL STEEL, BOLTS, AND OTHER COMPONENTS COMPLY WITH REQUIREMENTS.		

<u>CTION:</u>

OR SHALL PAY FOR AND BE RESPONSIBLE FOR ENSURING CIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED JILDING CODE OF THE COUNTY OF HAWAII, IS MADE AT THE TE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS SPECTOR. THE CONTRACTOR SHALL CORRECT DEFECTIVE NO ADDITIONAL COST TO THE STATE AND PAY FOR TION.

WING STRUCTURAL WORK REQUIRES SPECIAL INSPECTION: RY CONSTRUCTION

CASES - DRILLED AND EPOXIED THREADED RODS OR CING STEEL IN EXISTING FULLY GROUTED MASONRY OR

SPECTION IS NOT REQUIRED FOR FOUNDATION CONCRETE AND IG STEEL. FOUNDATIONS WERE DESIGNED 2,500 PSI.

AL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ENSED ENGINEER OR ARCHITECT OF RECORD, AND OTHER SIGNATED PERSONS. REPORTS SHALL INDICATE THAT WORK WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION S. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED THE STATE AND LICENSED ENGINEER OR ARCHITECT OF TATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION HE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE PROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE SHIP PROVISIONS OF THIS CODE. PRIOR TO THE FINAL REQUIRED UNDER THE BUILDING CODE SECTION 109.3.10 THE ENGINEER OR ARCHITECT OF RECORD SHALL SUBMIT A TATEMENT VERIFYING RECEIPT OF THE FINAL INSPECTION AND DOCUMENTING THAT THERE ARE NO UNRESOLVED CODE INTS THAT CREATE SIGNIFICANT PUBLIC SAFETY DEFICIENCIES.

OR SHALL SUBMIT A STATEMENT CONTAINING AN DGEMENT OF AWARENESS OF THE SPECIAL INSPECTION INTS CONTAINED ON THE DRAWINGS AND THAT THE TION REQUIRING SPECIAL INSPECTIONS WILL BE MADE FOR INSPECTIONS.

<u>NS:</u>

——— AT ------ ARCHITECTURAL ------ BELOW —— ВОТТОМ ------ CONCRETE MASONRY UNIT ------ CONCRETE ------ DOUBLE ----- DAMAGE ------ DRAWING —— EQUAL FOOTING ------ HORIZONTAL ------ MECHANICAL ——— THICK ------ TYPICAL ------ VERTICAL ——— WITH

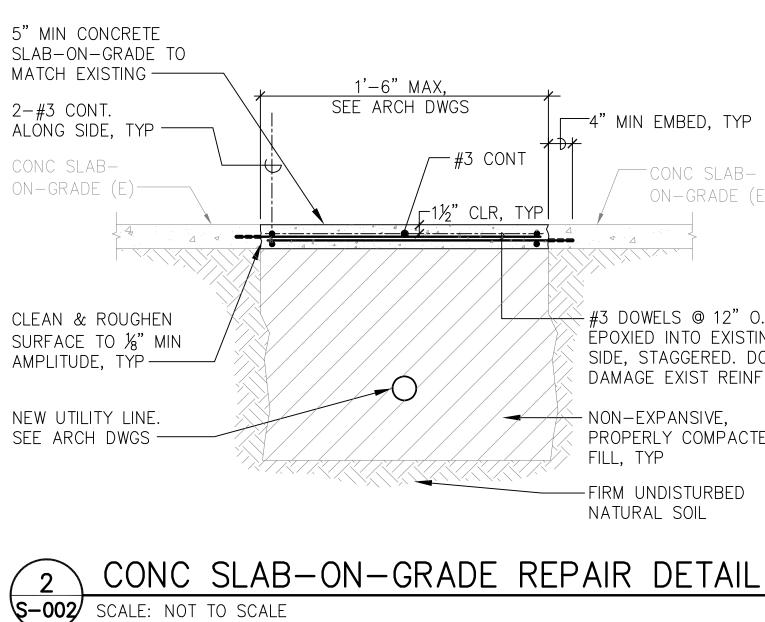
MINIMUM SPLICE & EMBEDMENT LENGTHS FOR CONCRETE

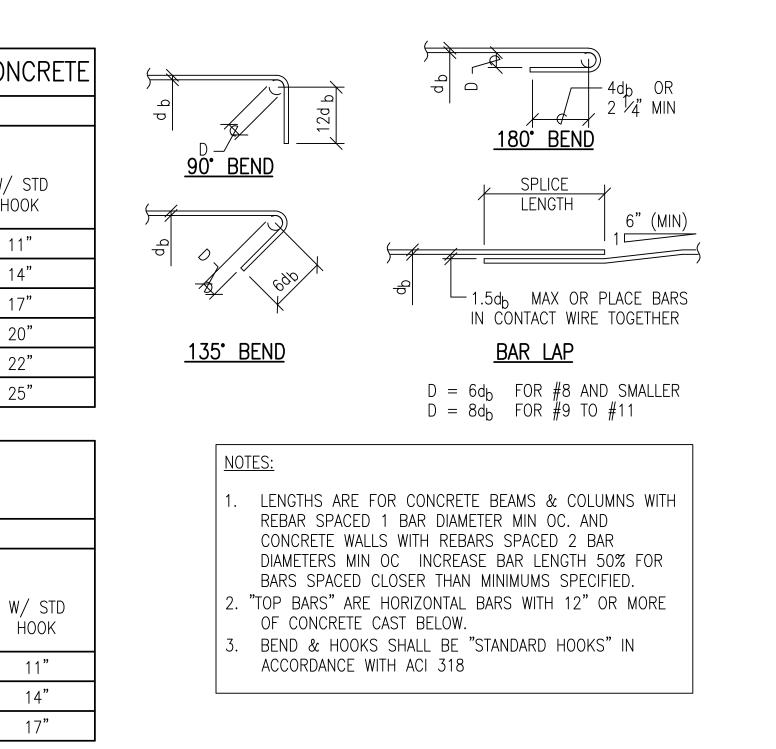
	LAP SPLICE		EMB	EDMENT			
			STRAIGHT				
BAR SIZE	BOT BAR OR WALL BAR	TOP BAR	BOT BAR OR WALL BAR	TOP BAR	W/ HC		
#3, #4	29"	38"	22"	29"	1		
# 5	36"	47"	28"	36"	1		
#6	43"	56"	33"	43"	1		
#7	63"	82"	48"	63"	2		
#8	72"	94"	55"	72"	2		
#9	81"	106"	62"	81"	2		

MINIMUM SPLICE & EMBEDMENT LENGTHS FOR MASONRY

	LAP	SPLICE	EMBEDMENT				
		STRAIGHT					
BAR SIZE					W		
#3, #4	26"	24"	26"	24"			
# 5	40"	30"	40"	30"			
#6	74"	36"	74"	36"			

TYPICAL REBAR SPLICE & EMBEDMENT LENGTH SCHEDULE S-002 NOT TO SCALE





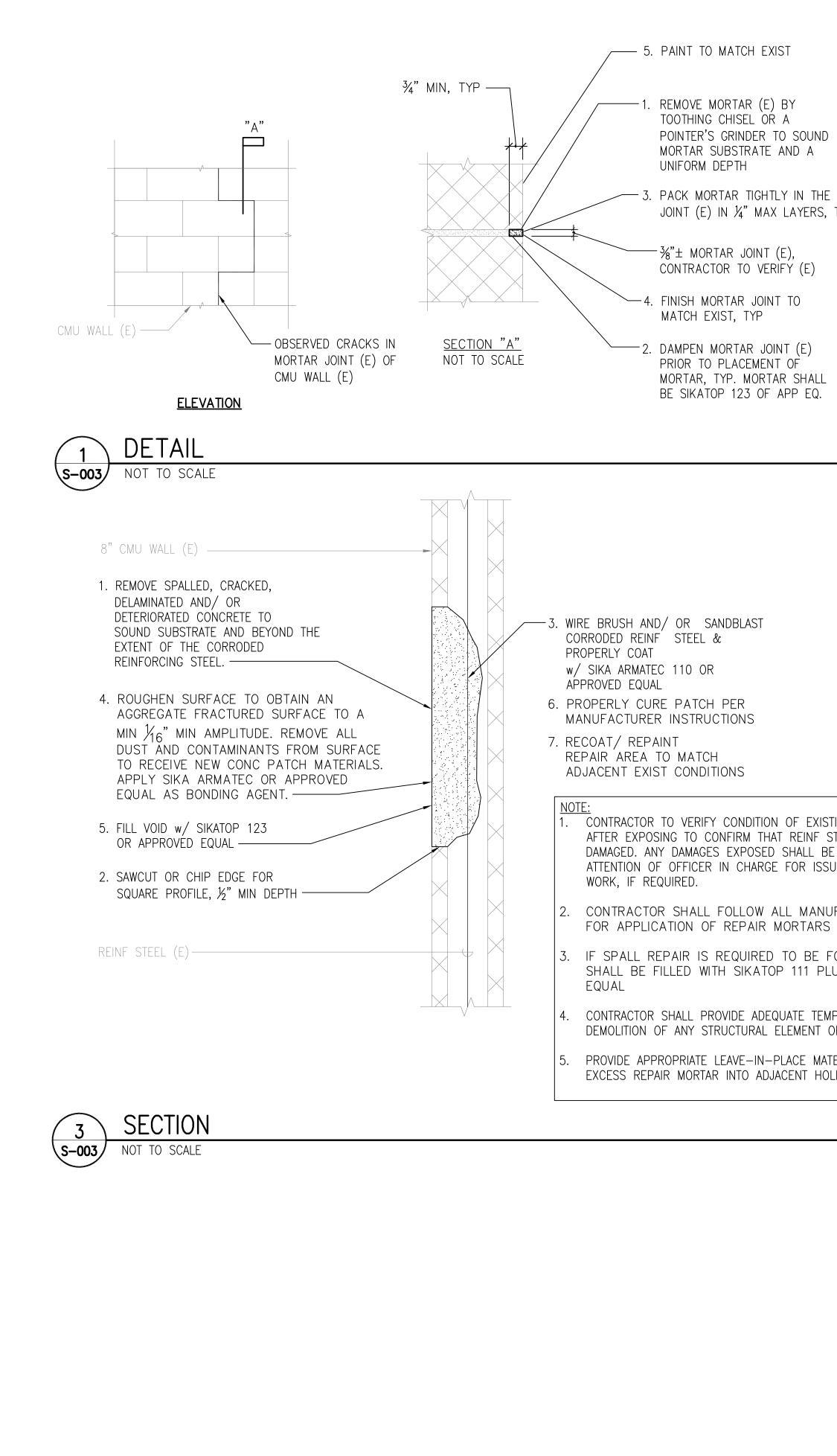
-4" MIN EMBED, TYP

/	CONC SLAB— ON—GRADE (E)	
л <u>А</u>		

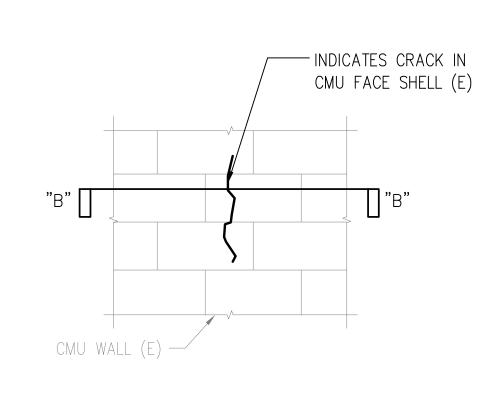
#3 DOWELS @ 12" O.C. DRILLED & EPOXIED INTO EXISTING CONC, EA SIDE, STAGGERED. DO NOT DAMAGE EXIST REINF STL, TYP

- NON-EXPANSIVE, PROPERLY COMPACTED FILL, TYP -FIRM UNDISTURBED

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED
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			F	IAWAII DISTRIC HILO, F	T LAND Iawan	OFFICE	
	No. 17	381-S U.S.	GENERAL NOTES & TYPICAL DETAILS				
тн	0162322	RES APRIL 30, 2024	DESIGNED: BC		SUBMITTE	D: At	A.
	10m	Cin cin	DRAWN: IB		DATE: NO\	/ 2022	
THIS WORK W		SIGNATURE AS PREPARED BY ME OR UNDER MY AND CONSTRUCTION OF THIS PROJECT R MY OBSERVATION. (OBSERVATION OF AS DEFINED IN CHAPTER 16-115 OF	CHECKED: BC		SCALE: AS	NOTED	
SUPERVISION WILL BE UND CONSTRUCTION	AND CONST ER MY OBSE N AS DEFINE		APPROVED:	Carty Chang			RAWING NO.
THE HAWAII A COMMERCE PROFESSIONA AND LANDSC/	IDER MY OBSERVATION OBSERVATION OF ON AS DEFINED IN CHAPTER 16-115 OF ADMINISTRATIVE RULES, DEPARTMENT OF E AND CONSUMER AFFAIRS ENTITLED IAL ENGINEERS, ARCHITECTS, SURVEYORS CAPE ARCHITECTS).		CHIEF ENGINEER	E-signed 2022-11-28 04 carty.s.chang@hawaii. SNGINEER State of Hawaii			
	JOB	NO. E00BH30A	\	Chief Engineer SHEET NO. 47	' OF	77 SHE	ETS

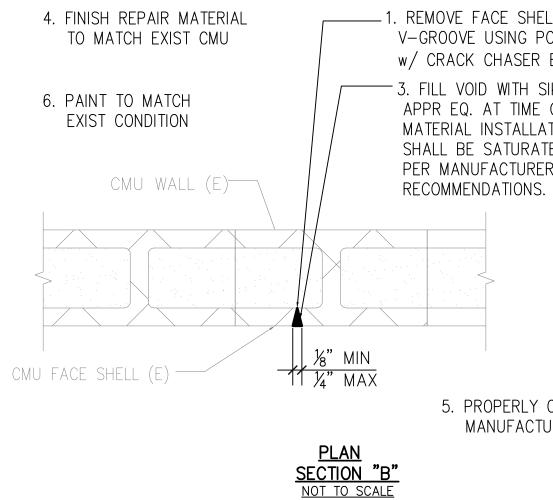


JOINT (E) IN $\frac{1}{4}$ " MAX LAYERS, TYP



ELEVATION





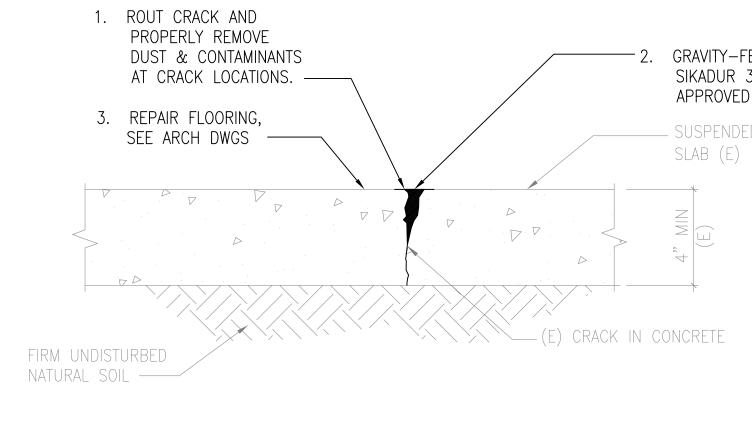
CONTRACTOR TO VERIFY CONDITION OF EXISTING REINFORCING STEEL AFTER EXPOSING TO CONFIRM THAT REINF STEEL IS SOUND AND NOT DAMAGED. ANY DAMAGES EXPOSED SHALL BE BROUGHT TO THE ATTENTION OF OFFICER IN CHARGE FOR ISSUE OF PROPER REMEDIAL

2. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER INSTRUCTIONS FOR APPLICATION OF REPAIR MORTARS AND BONDING AGENTS.

3. IF SPALL REPAIR IS REQUIRED TO BE FORMED & POURED, VOID SHALL BE FILLED WITH SIKATOP 111 PLUS, OR PRE-APPROVED

CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING PRIOR TO DEMOLITION OF ANY STRUCTURAL ELEMENT OR PORTION THEREOF.

PROVIDE APPROPRIATE LEAVE-IN-PLACE MATERIAL TO PREVENT FLOW OF EXCESS REPAIR MORTAR INTO ADJACENT HOLLOW CELLS AS NEEDED.



CONC SLAB-ON-GRADE CRACK REPAIR 4 S-003 NOT TO SCALE

-1. REMOVE FACE SHELL (E) & CREATE V-GROOVE USING POINTERS GRINDER w/ CRACK CHASER BLADE OR APPR EQ - 3. FILL VOID WITH SIKA 123 PLUS OR APPR EQ. AT TIME OF CMU REPAIR MATERIAL INSTALLATION. CMU SURFACES SHALL BE SATURATED SURFACE DRY PER MANUFACTURERES

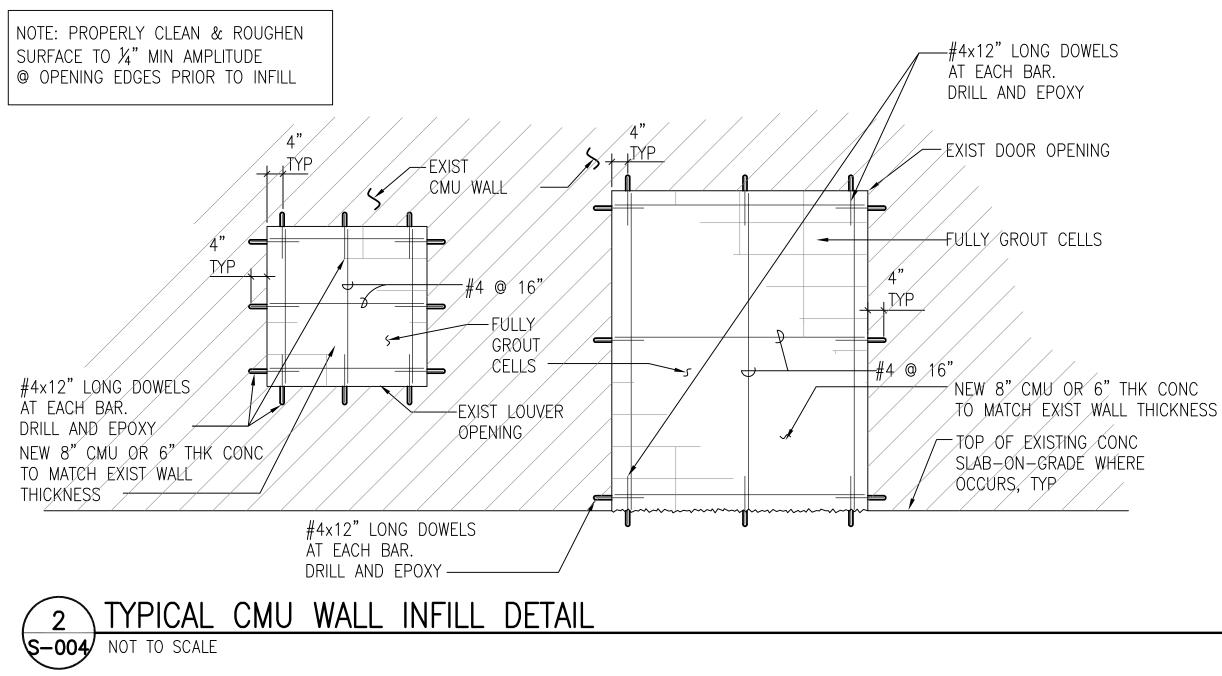
> 5. PROPERLY CURE PATCH PER MANUFACTURERS RECOMMENDATIONS.

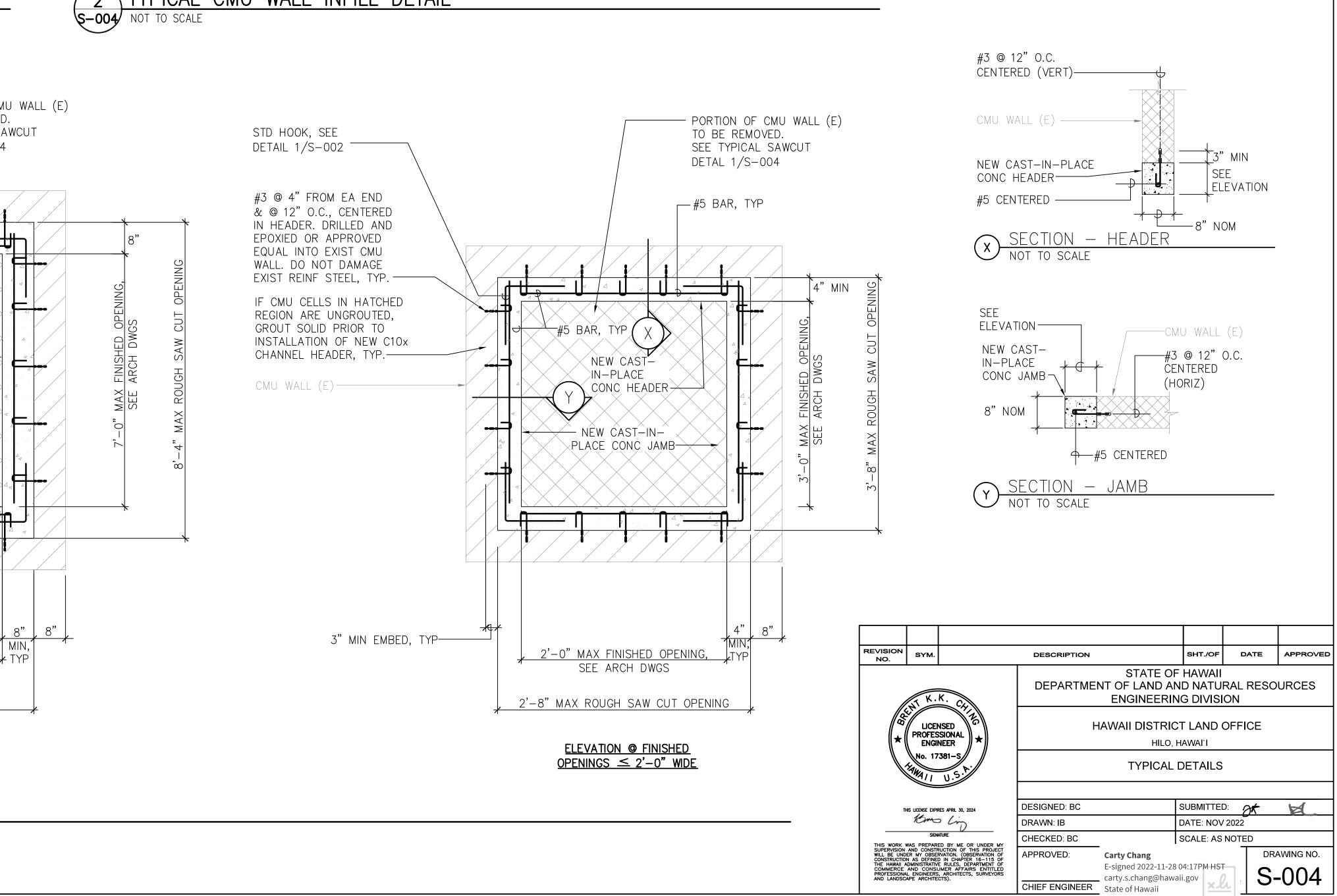
GRAVITY-FEED CRACKS W/ SIKADUR 35, HI MOD LV OR APPROVED ÉQUAL.

- SUSPENDED CONC

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	No. 17	V381-S	GENERAL NOTES & TYPICAL DETAILS				
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п	his license expi	RES APRIL 30, 2024	DESIGNED: BC	:	SUBMITTE	D: At	Z.
	10m	s Ling	DRAWN: IB	I	DATE: NO\	/ 2022	
THIS WORK		ATURE	CHECKED: BC	:	SCALE: AS	NOTED	
	WAS PREPARED BY ME OR UNDER MY N AND CONSTRUCTION OF THIS PROJECT IDER MY OBSERVATION (DBSERVATION OF ION AS DEFINED IN CHAPTER 16-115 OF ADMINISTRATIVE RULES, DEPARTMENT OF E AND CONSUMER AFFAIRS ENTITLED VAL ENGINEERS, ARCHITECTS, SURVEYORS ICAPE ARCHITECTS).		APPROVED:	Carty Chang		DR	AWING NO.
THE HAWAII A COMMERCE PROFESSIONA AND LANDSC			CHIEF ENGINEER	E-signed 2022-11-28 04:17PM HST carty.s.chang@hawaii.gov		2 S	-003
	JOB	NO. E00BH30A	\	Chief Engineer SHEET NO. 48	OF	77 SHEE	ETS

-CMU LIMIT OF SAWCUT + - 7 + WALL (E) OVER CUTTING NOT PERMITTED -SECTION TO BE LIMIT OF Ă. HAND CHIPPED NEW TO FORM OPENING CORNER-LIMIT OF NEW OPENING SAWCUT LIMIT OF HAND CHIP TO FORM SAWCUT OVER -CUTTING CUTTING NOT NEAT CORNER-BLADE PERMITTED SEE NEW OPENING EDGE WHERE INDICATED ON SECTION "A" PLANS, SURFACE SHALL BE PRIMED WITH A COAT OF SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL, AND FINISHED WITH A COAT OF SIKATOP 122 PLUS, OR APPROVED EQUAL. CONCRETE OR MASONRY SURFACE SHALL BE PREPARED ACCORDING TO MANUFACTURER'S SAWCUTTING OPENINGS. SPECIFICATIONS PRIOR TO APPLICATION OF TYP EACH CORNER EACH COATING. -**ELEVATION** <u>SECTION "A"</u> **@** CORNER TYPICAL SAWCUT DETAIL ****\$−004∕ NOT TO SCALE -PORTION OF CMU WALL (E) STD HOOK, SEE TO BE REMOVED. DETAIL 1/S-002 SEE TYPICAL SAWCUT DETAL 1/S-004 ____#5 BAR, TYP #3 @ 4" FROM EA END & @ 12" O.C., CENTERED IN HEADER. DRILLED AND EPOXIED OR APPROVED EQUAL INTO EXIST CMU WALL. DO NOT DAMAGE EXIST REINF STEEL, TYP. NEW CAST-IN-PLACE IF CMU CELLS IN HATCHED CONC HEADER REGION ARE UNGROUTED, GROUT SOLID PRIOR TO INSTALLATION OF NEW C10x [≥]#5 BAR, TYP≦ CHANNEL HEADER, TYP.-∽NEW CAST-IN-PLÂCE CONC JAMB≁ CMU WALL (E) — 3" MIN EMBED, TYP-6'-0" MAX FINISHED OPENING, SEE ARCH DWGS 7'-4" MAX ROUGH SAW CUT OPENING ELEVATION @ FINISHED <u>OPENINGS > 2'-0" WIDE</u> TYPICAL OPENING REINFORCING DETAIL S-004 NOT TO SCALE





JOB NO. E00BH30A

Chief Engineer SHEET NO. 49 OF 77 SHEETS

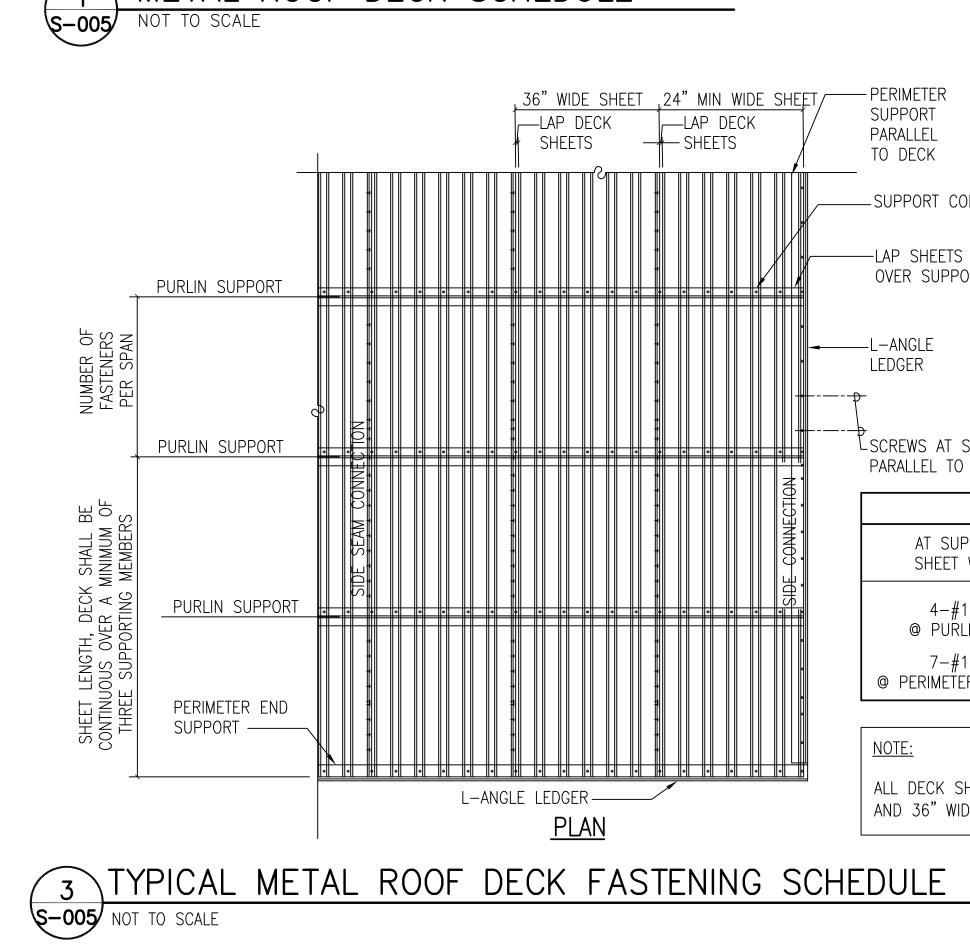
ME	TAL RO	OF DECH	< SCHEDUL	E
TYPE	MINIM	IUM SECTION I	CENTION	
GAGE	I in ⁴ /FT	+Sin ³ /FT	-Sin ³ /FT	SECTION
1½" VERCO/ PLB-36 22 GA ROOF DECK OR APPROVED EQUAL	0.192	0.176	0.188	

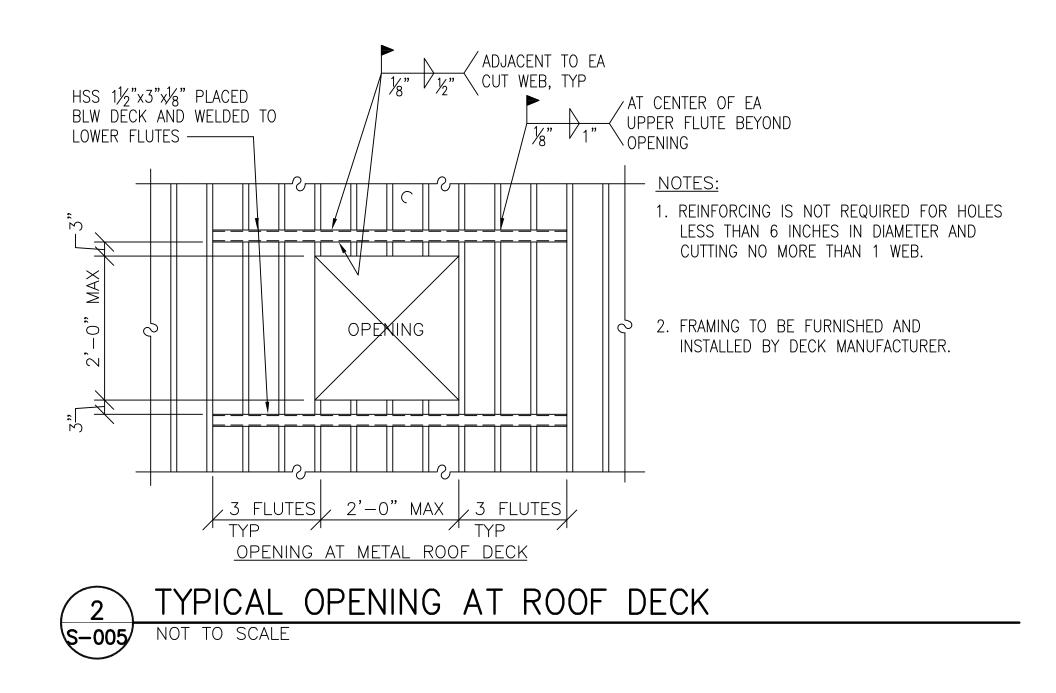
<u>NOTES:</u>

1

- 1. SEE PLANS FOR EXTENT AND ORIENTATION OF METAL DECK.
- 2. SEE 3/S-005 FOR METAL ROOF DECK FASTENING TO SUPPORTS

METAL ROOF DECK SCHEDULE





__SUPPORT CONNECTION

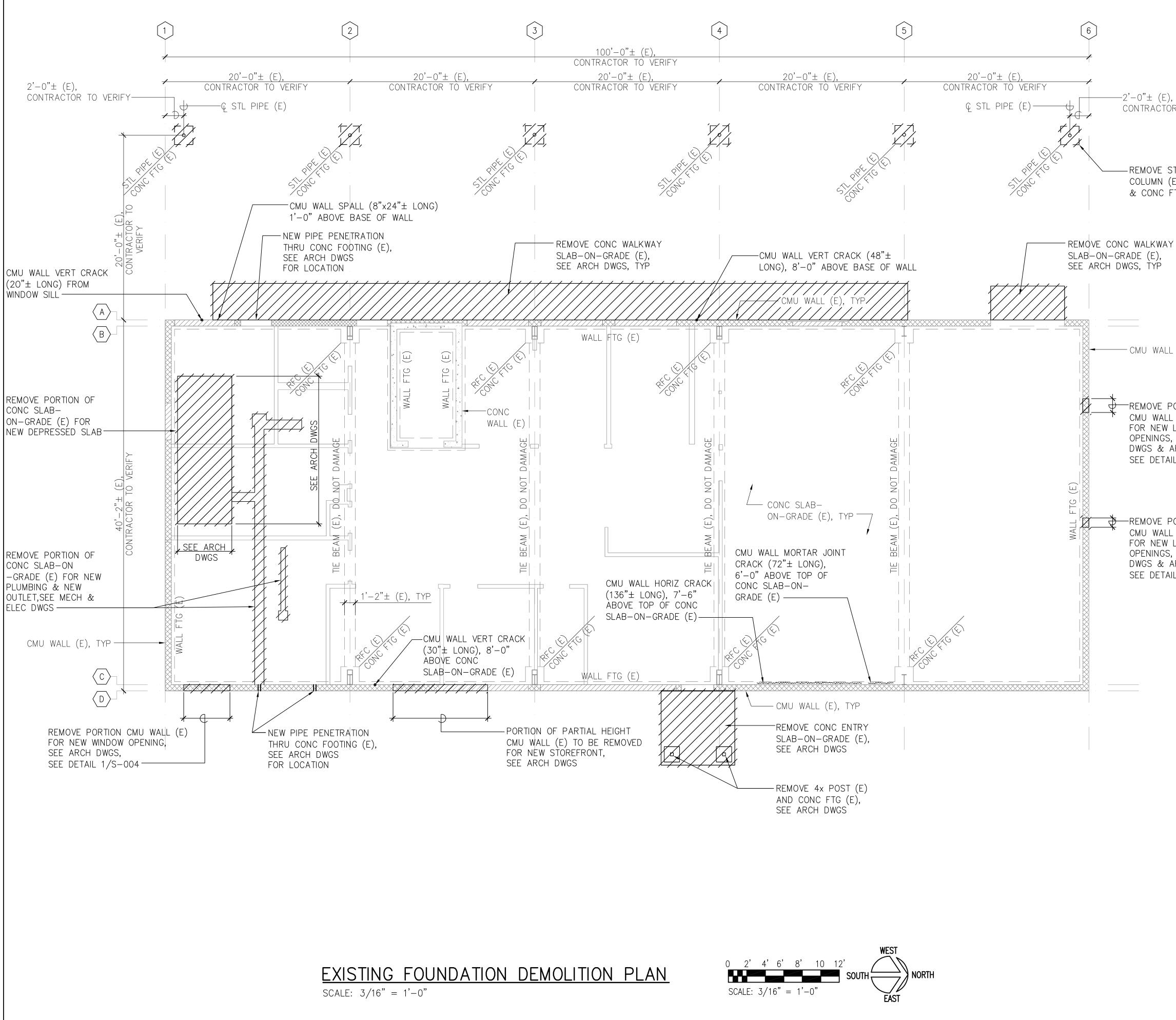
—LAP SHEETS 2" MIN OVER SUPPORT, TYP

LSCREWS AT SUPPORT PARALLEL TO DECK

DIAPHRAGM CONNECTION								
AT SUPPORT PER 36" SHEET WIDTH	SIDE LAP CONNECTION	AT SUPPORT PARALLEL TO DECK						
4−#12 SCREWS @ PURLIN SUPPORTS 7−#12 SCREWS PERIMETER END SUPPORTS	VSC2 @ 24" OC (OR APPROVED EQUAL)	#12 SCREWS @ 6" OC						

ALL DECK SHALL BE MINIMUM 3 SPAN CONTINUOUS CONDITION AND 36" WIDE SHEETS AND GALVANIZED

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*	LICENSED PROFESSIONAL ENGINEER		F	HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I					
	No. 17	381-S U.S.	TYPICAL DETAILS						
n	HIS LICENSE EXPI	RES APRIL 30, 2024	DESIGNED: BC	S	SUBMITTE	D: At	A		
	10m	s Cing	DRAWN: IB	[DATE: NO\	/ 2022			
THIS WORK V	WAS PREPAR	ATURE	CHECKED: BC		SCALE: AS	NOTED			
SUPERVISION	AND CONSTR	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF	APPROVED:	Carty Chang			AWING NO.		
L COMMERCE	AND CONSI	E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 C carty.s.chang@hawai State of Hawaii		2 S-	-005		
	JOB	NO. E00BH30A	\	Chief Engineer SHEET NO 50	OF	77 SHEE	TS		



 $-2'-0"\pm$ (E), CONTRACTOR TO VERIFY

-REMOVE STL PIPE COLUMN (E) & CONC FTG (E), TYP

LEGEND:

— CMU WALL (E), TYP

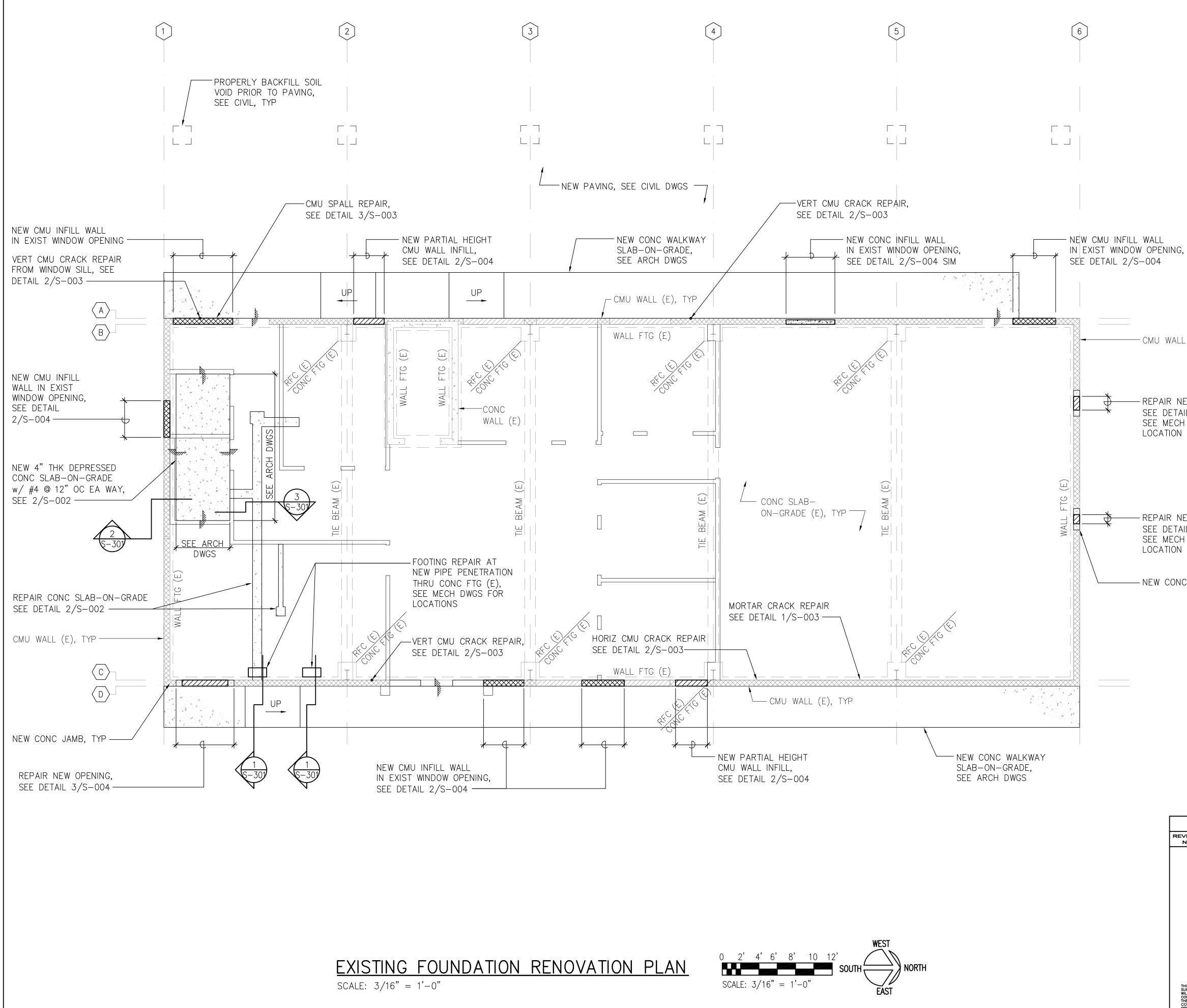
-REMOVE PORTION OF CMU WALL (E) FOR NEW LOUVER OPENINGS, SEE MECH DWGS & ARCH DWGS, SEE DETAIL 1/S-004

CMU WALL (E) FOR NEW LOUVER OPENINGS, SEE MECH DWGS & ARCH DWGS, SEE DETAIL 1/S-004

INDICATES EXIST FULL HEIGHT CMU WALLS INDICATES EXIST PARTIAL HEIGHT CMU WALLS INDICATES EXIST NON STRUCTURAL WALLS A 4 INDICATES EXIST FULL HEIGHT CONC WALLS INDICATES EXIST RIGID FRAME COLUMN RFC (E) INDICATES DEPRESSED SLAB OR CHANGE mm IN SLAB ELEVATION. SEE ARCH DWGS $\not \square$ INDICATES APPROXIMATE LOCATION & EXTENT OF DEMOLITION, SEE ARCH DWGS

NOTE: LOCATIONS AND SIZES OF EXISTING DAMAGES ARE APPROXIMATE. THE CONTRACTOR SHALL PERFORM A SURVEY OF EXISTING DAMAGES AND REPORT TO THE ARCHITECT ANY DEVIATIONS OR ADDITIONAL DAMAGES NOT SHOWN.

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED
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			H	IAWAII DISTRICT HILO, H		OFFICE	
	No. 17	381-S U.S.	EXISTING FOUNDATION DEMOLITION PLAN				
π	HIS LICENSE EXPI	RES APRIL 30, 2024	DESIGNED: BC	S	SUBMITTE	D: At	K
	10m	s Ling	DRAWN: IB	C	DATE: NO\	/ 2022	
THIS WORK	SIGNITURE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (DESERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16–115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).		CHECKED: BC		SCALE: AS	NOTED	
SUPERVISION WILL BE UND CONSTRUCTIO			APPROVED:	Carty Chang			AWING NO.
IHE HAWAII A COMMERCE PROFESSIONA AND LANDSC			CHIEF ENGINEER	E-signed 2022-11-28 04:17PM HST carty.s.chang@hawaii.gov		<u>S-</u>	-101
	JOB	NO. E00BH30A	Chief Engineer SHEET NO. 51	OF	77 SHEE	ETS	



LEGEND:	
	INDICATES EXIST FULL HEIGHT CMU WALLS
	INDICATES EXIST PARTIAL HEIGHT CMU WALLS
	INDICATES NEW NON STRUCTURAL WALLS
	INDICATES EXIST FULL HEIGHT CONC WALLS
	INDICATES NEW CMU WALL INFILL
<t< th=""><th>INDICATES NEW CMU WALL OPENING OR NEW PARTIAL HEIGHT CMU WALL</th></t<>	INDICATES NEW CMU WALL OPENING OR NEW PARTIAL HEIGHT CMU WALL
RFC (E)	INDICATES EXIST RIGID FRAME COLUMN
	INDICATES DEPRESSED SLAB OR CHANGE IN SLAB ELEVATION. SEE ARCH DWGS
	INDICATES NEW CONC INFILL WALL OR CONC JAMB

<u>NOTE:</u>

LOCATIONS AND SIZES OF EXISTING DAMAGES ARE APPROXIMATE. THE CONTRACTOR SHALL PERFORM A SURVEY OF EXISTING DAMAGES AND REPORT TO THE ARCHITECT ANY DEVIATIONS OR ADDITIONAL DAMAGES NOT SHOWN.

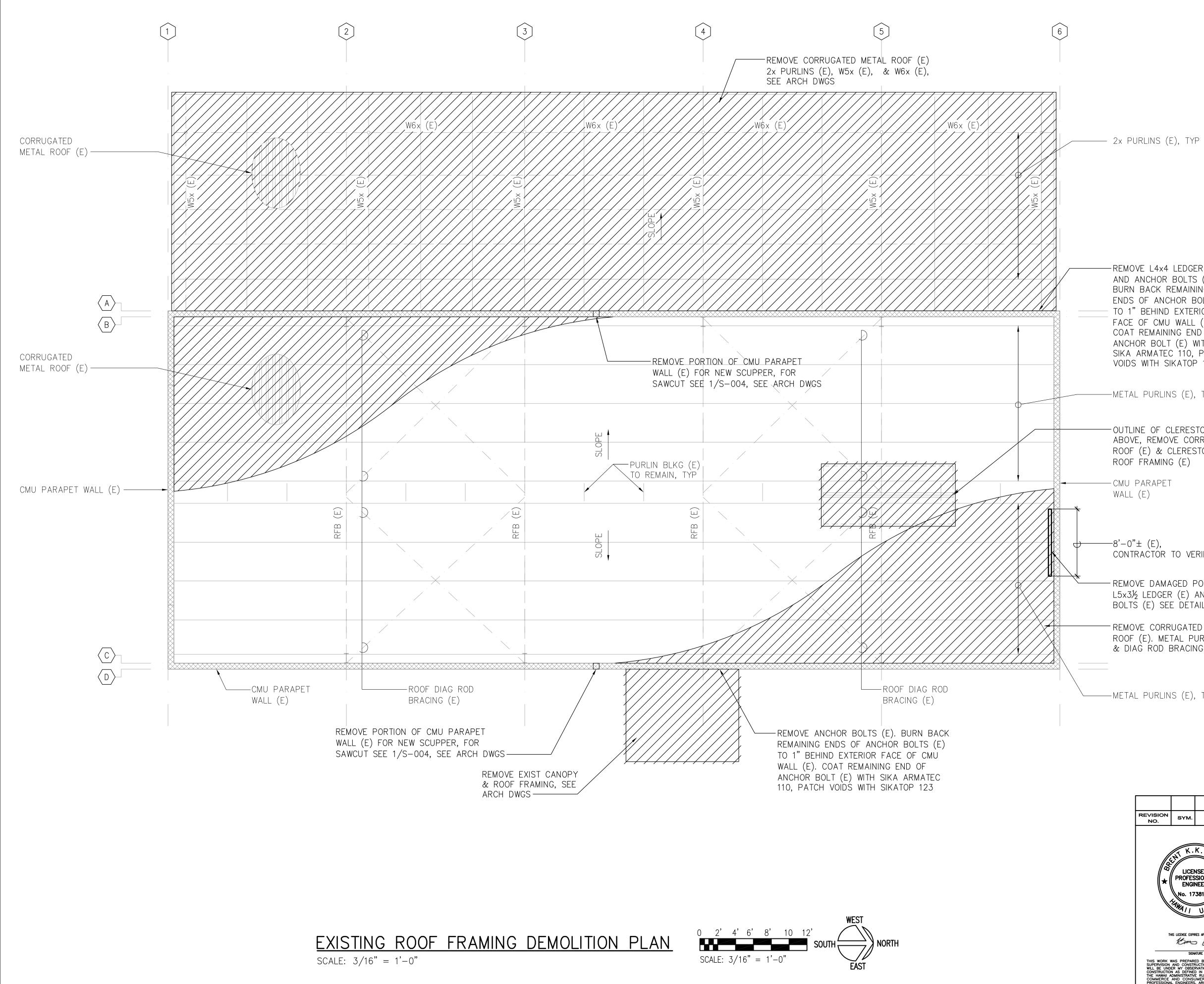
— CMU WALL (E), TYP

— REPA				2
				,
SEE	DETAIL	3/S-	-004	1,
SEE	MECH F	FOR S	SIZE	&
LOCA	TION			

- REPAIR NEW OPENING, SEE DETAIL 3/S-004, SEE MECH FOR SIZE & LOCATION

-NEW CONC JAMB, TYP

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED	
K.K. CHICENSED HROFESSIONAL ENGINEER ★		DEPARTME	STATE OF NT OF LAND AN ENGINEERIN	D NATU		URCES		
		Н	HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I					
No. 17381-S			EXISTING FOUNDATION RENOVATION PLAN					
				I				
тн	IS LICENSE EXPI	RES APRIL 30, 2024	DESIGNED: BC		SUBMITTED:			
	10m	cin cin	DRAWN: IB	Γ	DATE: NOV			
THIS WORK V			CHECKED: BC		SCALE: AS	NOTED		
SUPERVISION WILL BE UNDI CONSTRUCTION	AND CONSTR ER MY OBSEI AS DEFINEI	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED:	Carty Chang			AWING NO.	
PROFESSIONA	R MY OBSERVATION. (OBSERVATION OF I AS DEFINED IN CHAPTER 16-115 OF DIMINISTRATIVE RULES, DEPARTMENT OF AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHITECTS, SURVEYORS PE ARCHITECTS).		CHIEF ENGINEER	E-signed 2022-11-28 04:17PM HST carty.s.chang@hawaii.gov State of Hawaii			-102	
	JOB	NO. E00BH30A		Chief Engineer SHEET NO. 52	OF	77 SHEE	ETS	



LEGEND:

INDICATES EXIST CMU PARAPET WALL

INDICATES PORTION OF EXISTING BUILDING TO BE DEMOLISHED

RFB (E) INDICATES EXIST RIGID FRAME BEAM

NOTES:

- 1. PROVIDE ADEQUATE TEMPORARY LATERAL BRACING OF EXISTING MASONRY WALLS DURING REMOVAL OF EXISTING METAL ROOF AND INSTALLATION OF NEW METAL ROOF DECK.
- 2. DO NOT DAMAGE EXIST METAL PURLINS, EXIST RIGID FRAME BEAMS, AND EXIST DIAGONAL ROD BRACING TO REMAIN.

-REMOVE L4x4 LEDGER (E) AND ANCHOR BOLTS (E). BURN BACK REMAINING ENDS OF ANCHOR BOLTS (E) TO 1" BEHIND EXTERIOR FACE OF CMU WALL (E). COAT REMAINING END ÓF ANCHOR BOLT (E) WITH SIKA ARMATEC 110, PATCH VOIDS WITH SIKATOP 123

-METAL PURLINS (E), TYP

-OUTLINE OF CLERESTORY ROOF (E) ABOVE, REMOVE CORRUGATED METAL ROOF (E) & CLERESTORY ROOF FRAMING (E)

-CMU PARAPET WALL (E)

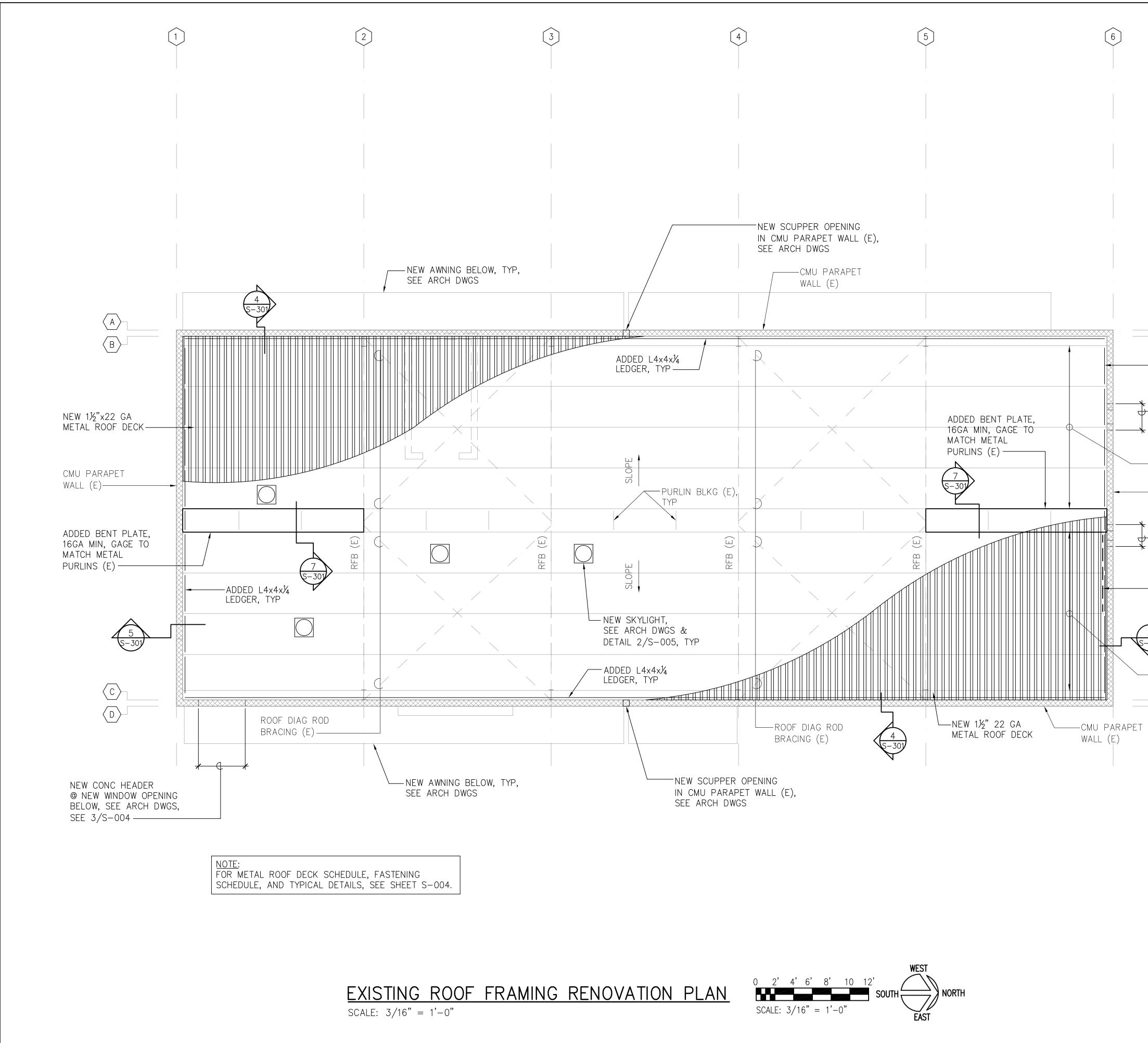
—8'-0"± (E), CONTRACTOR TO VERIFY

- REMOVE DAMAGED PORTION OF L5x3½ LEDGER (E) AND ANCHOR BOLTS (E) SEE DETAIL 6/S-301

-REMOVE CORRUGATED METAL ROOF (E). METAL PURLINS (E), RFB (E) & DIAG ROD BRACING TO REMAIN, TYP

— METAL PURLINS (E), TYP

	REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED
	K.K. CHIK.K. CHIK.K. CHIK. CHIK. CHIK.CHIK.CHIK.CHIK.CHIK.CHIK.CHIK.CHIK.			DEPARTMEI	STATE OF NT OF LAND AN ENGINEERIN	ID NATU	RAL RESO	URCES
				F	IAWAII DISTRIC HILO, F	T LAND Iawai'i	OFFICE	
				EXISTING ROOF FRAMING DEMOLITION PLAN				
	тн	is license expi	RES APRIL 30, 2024	DESIGNED: BC		SUBMITTE	D: At	Ø.
		10m	s Ling	DRAWN: IB		DATE: NOV 2022		
	SIGNATURE THIS WORK WAS PREPARED BY ME OR UNDER MY			CHECKED: BC		SCALE: AS	NOTED	
	SUPERVISION WILL BE UNDI CONSTRUCTION THE HAWAII A	ION AND CONSTRUCTION OF T UNDER MY OBSERVATION. (OBS CTION AS DEFINED IN CHAPTER AII ADMINISTRATIVE RULES. DEF	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES. DEPARTMENT OF	APPROVED:	E-signed 2022-11-28 04:17PM HST			AWING NO.
	PROFESSIONAL AND LANDSCA	AND CONSUMER AFFAIRS ENTITLED L ENGINEERS, ARCHITECTS, SURVEYORS APE ARCHITECTS).		CHIEF ENGINEER	carty.s.chang@hawaii.gov / S/			-201
	JOB NO. E00BH30A				Chief Engineer SHEET NO. 53) OF	77 SHEE	ETS



<u>PV SYSTEM- ADDITIVE BID NO.1:</u>

<u>NOTES:</u>

- 1. SELF-WEIGHT OF NEW ROOF MOUNTED PV SYSTEM SHALL NOT EXCEED 5 PSF NOR 5,000 LBS TOTAL INCLUDING PV PANELS, MOUNTING HARDWARE, & COMPONENTS.
- 2. CONTRACTOR SHALL SUBMIT PV SYSTEM SPECIFICATIONS, LAYOUT, AND MOUNTING

LEGEND:

INDICATES EXIST CMU PARAPET WALL

RFB

INDICATES EXIST RIGID FRAME BEAM

-ADDED $L4x4x\frac{1}{4}$ LEDGER, TYP

@ NEW LOUVER OPENING BELOW, SEE MECH DWGS, SEE 3/S-004

-METAL PURLINS (E), TYP

- CMU PARAPET WALL (E)

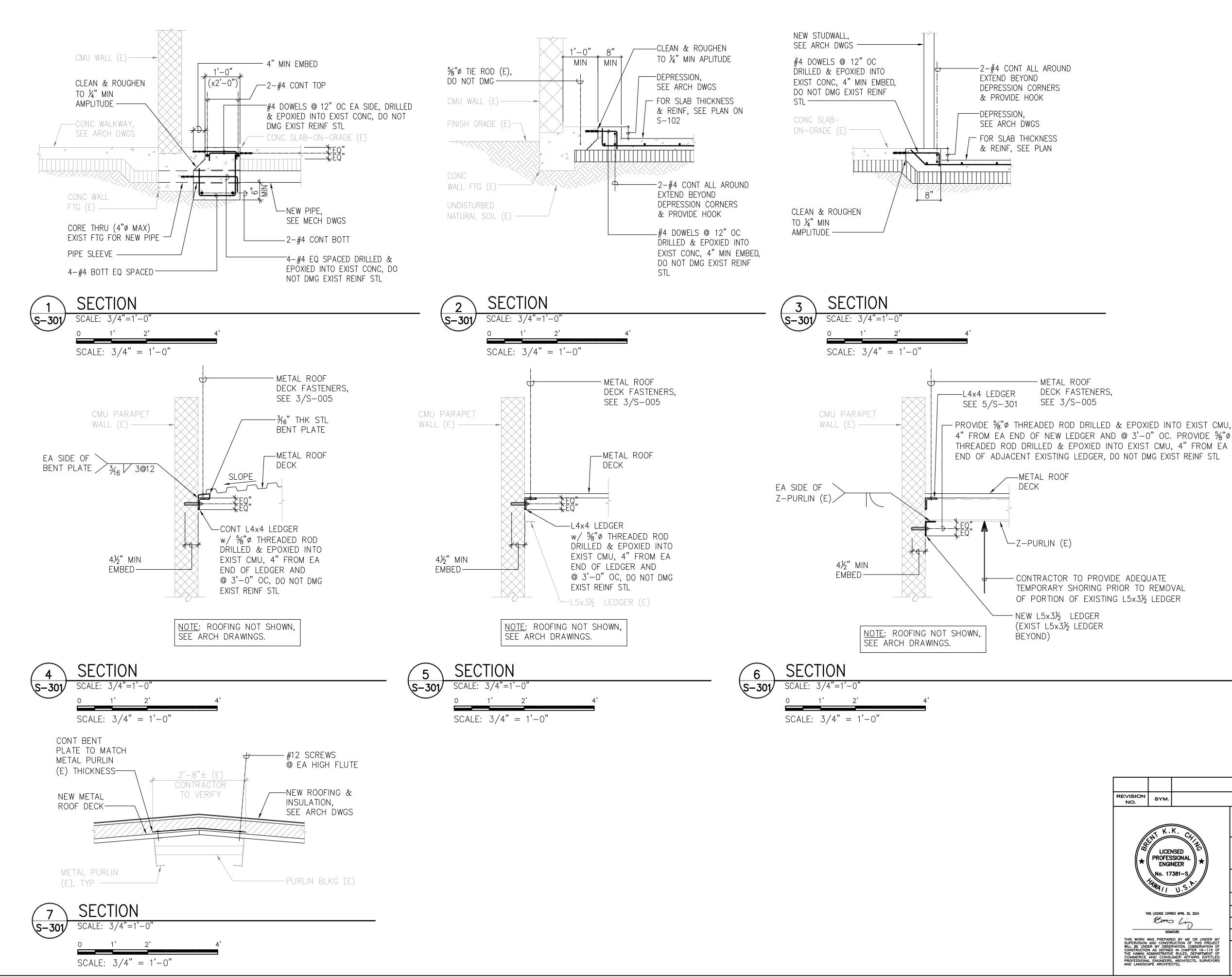
- NEW CONC HEADER @ NEW LOUVER OPENING BELOW, SEE MECH DWGS, SEE 3/S-004

— NEW L5x3½x3% LEDGER BELOW, SEE DETAIL 6/S-301



-METAL PURLINS (E), TYP

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED						
	.T K.	K. C	STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION										
*	LICEI PROFES ENGI		HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I										
	No. 17	381-S U.S.	EXISTING ROOF FRAMING RENOVATION PLAN										
п п	HIS LICENSE EXPI	RES APRIL 30, 2024	DESIGNED: BC	:	SUBMITTE	D: AK	Ø.						
	10m	s Cing	DRAWN: IB	I	DATE: NO\	/ 2022							
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THE HAWAII A COMMERCE PROFESSIONA AND LANDSC,	ADMINISTRATIV AND CONSU L ENGINEERS APE ARCHITE	EU BI ME OR UNDER MI XUCTION OF THIS PROJECT XVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 (carty.s.chang@hawai State of Hawaii			-202						
	JOB	NO. E00BH30A		Chief Engineer SHEET NO. 54	OF	77 SHEI	ETS						



REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED					
	.T K.	K. CH	DEPARTMEN	STATE OF NT OF LAND AN ENGINEERING	D NATU		URCES					
*	LICE PROFES ENGI	NSED SIONAL	HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I									
	No. 17	381-S U.S.N.	SECTIONS									
TH	iis license expii	RES APRIL 30, 2024	DESIGNED: BC	S	SUBMITTED:							
	10m	s Ling	DRAWN: IB	C	DATE: NOV 2022							
THIS WORK W		ATURE	CHECKED: BC	S	SCALE: AS NOTED							
SUPERVISION WILL BE UND CONSTRUCTIO	AND CONSTR ER MY OBSEI N AS DEFINEI	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED:	Carty Chang			WING NO.					
COMMERCE	AND CONSI	E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 0 carty.s.chang@hawaii State of Hawaii		S-	301					
	JOB	NO. E00BH30A		Chief Engineer SHEET NO. 55	OF	77 SHEE	TS					

- CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY SHORING PRIOR TO REMOVAL OF PORTION OF EXISTING L5x31/2 LEDGER

4" FROM EA END OF NEW LEDGER AND @ 3'-0" OC. PROVIDE 5%" THREADED ROD DRILLED & EPOXIED INTO EXIST CMU, 4" FROM EA END OF ADJACENT EXISTING LEDGER, DO NOT DMG EXIST REINF STL

GENERAL NOTES:

1.	CONFORM TO ALL REQUIREMENTS OF THE 2018 IBC, 2018 UPC, 2018 IECC AND 2012 NFPA 1 CODES OF THE COUNTY OF HAWAII, STATE OF HAWAII HEALTH REGULATIONS, FIRE DEPARTMENT REGULATIONS, MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.	29. 30.	ALL PENETRATIONS THRU EXISTI COMPLIANCE WITH ARCHITECTUR ALL PENETRATIONS THRU RATED	AL/STRU	ICTURAL PROCEDU	URES AND DRAWINGS.			
2.	EXAMINE ALL PROJECT PLANS AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE	30.	STOPPING AND OR FIRE & SMOI			TALL DE EQUIFFED WITH	Аг		
	EXTENT OF REMOVAL, RELOCATION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE ARCHITECT/ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES	31.	DRAWING FILES WILL NOT BE AVAILABLE TO CONTRACTORS FOR SHOP DRAWINGS OF PURPOSE.						
	DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.	32.	PROVIDE ISOLATION VALVES ON BRANCH LINES WHETHER SHOWN				D		
3.	INSTALLATION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS FOR ONE YEAR FROM FINAL DATE OF ACCEPTANCE OF THE PROJECT AS A WHOLE.	33.	CONTRACTOR SHALL SCHEDULE, TAG, AND LABEL ALL VALVES AND PIPING. ALL PIPIN BE LABELED WITH DIRECTION OF FLOW.						
4.	CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BID AND CONSTRUCTION	34.	ALL EXTERIOR NUTS, BOLTS, AN		VS, WASHERS, FA	STENERS, SUPPORTS STF	:AP		
5.	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LINE SIZES, CONDITIONS, AND INVERTS PRIOR TO BID AND CONSTRUCTION.	35.	BE TYPE 316 STAINLESS STEEL. VERIFY AND COORDINATE ALL R	DOF, WAI	-		AR		
6.	THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY	36.	STRUCTURAL DRAWINGS PRIOR T OBTAIN APPROVAL FROM OFFICE				s -		
	NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL AT NO ADDITIONAL COST TO THE STATE.		STRUCTURAL MEMBERS, WALLS, THE PRIOR OPENING.						
7.	CONTRACTOR SHALL PAY FOR ALL PERMITS AND APPLICATIONS.	37.	PATCH AND PAINT ALL EXPOSED OR AS INDICATED.	MATERI	AL, INCLUDING DU	JCTWORK, TO MATCH ADJ	ACI		
8.	CAULK ALL PENETRATIONS WATERTIGHT. PROVIDE ALL CUTTING, PATCHING, AND RESTORING OF EXISTING SURFACES TO MATCH ORIGINAL SURFACE FINISHES. SPOT PAINT TO MATCH EXISTING	38.	DAMAGES FROM REMOVAL AND I REPAIRED/PATCHED AND PAINTE			HANICAL ITEMS SHALL B	Ε		
	SURFACES/COLOR.	39.	PARTIAL SUBMITTALS AND SHOP REVIEW.	DRAWING	GS ARE NOT ACCI	EPTABLE AND WILL BE R	EΤι		
9.	PREPARE SIX (6) SETS OF SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK. NO REPRODUCTIONS OF ANY KIND OF THE CONTRACT DOCUMENTS SHALL BE ACCEPTABLE AS SHOP DRAWINGS. PROVIDE ONE SET OF REPRODUCIBLE AS-BUILT DRAWINGS SHOWING THE ACTUAL INSTALLED CONDITIONS AND SUBMIT TO THE STATE UPON COMPLETION OF WORK.								
10.	ALL EQUIPMENT AND FIXTURES SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOTTED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE		FIXTURE	e ur		JNT			
	EQUIPMENT AND FIXTURES ARE TO BE INSTALLED PRIOR TO ORDERING OF ITEMS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE		DEMO						
	PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT AND FIXTURES.		FIXTURE WATER CLOSET (FT) (WC)	QTY 2	F.U. EACH 1.7	SUBTOTAL F.U. 3.4	$\left\{ \right\}$		
11.	DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY EXACT DETAIL OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES		LAVATORY (ALAV)	2	0.6	1.2			
	WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND		HAND SINK (HS)	1	0.6	0.6			
	IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES AND/OR LACK OF ADEQUATE CLEARANCES.			1	1.7 2.5	1.7 2.5	$\left \right $		
12.	SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE		HOSE BIBB HOSE BIBB (ADD)	4	1.0	4.0	$\left \right $		
	AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT/ENGINEER FOR REVIEW/APPROVAL PRIOR TO PROCEEDING WITH WORK.		TOTAL			13.4 FU 15.0 GPM 900 GPD			
13.	COORDINATE ALL SWITCH, THERMOSTAT, FIRE EXTINGUISHER, ETC. LOCATIONS WITH THE STATE/ENGINEER PRIOR TO INSTALLATION TO AVOID INTERFERENCES WITH PAINTING, BULLETIN					900 GFD] 		
	BOARDS, FURNITURE, ETC. ANY ITEM NOT PROPERLY COORDINATED SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE STATE.		NEW FIXTURE	QTY	F.U. EACH	SUBTOTAL F.U.	$\left\{ \right\}$		
14.	ALL STEEL SHALL BE HOT DIPPED GALVANIZED. GALVANIZED STEEL EXPOSED TO WEATHER SHALL		WATER CLOSET (FT) (WC)	-	1.7	1.7			
	HAVE WEATHER PROOF PAINT TO MATCH SURFACES. PROVIDE TWO EXTRA COATS OF EPOXY PAINT.		LAVATORY (LAV)	1	0.6	0.6	$\left \right $		
15.	ALL ELECTRICAL AND CONTROL WIRING SHALL BE IN CONDUIT. PROVIDE GALVANIZED STEEL PIPE CONDUIT FOR EXPOSED TO WEATHER CONDUIT.		KITCHEN SINK (SK)	1	1.6 2.0	1.6 2.0	$\left \right $		
16.			HOSE BIBB	1	2.0	2.0	$\left\{ \right\}$		
	ALL DUCT DIMENSIONS SHOWN ARE NET DIMENSIONS.		HOSE BIBB (ADD)	3	1.0	3.0	1		
17.	PROVIDE DUCTWORK REDUCER FITTINGS AT AIR DEVICE CONNECTIONS AS REQUIRED.		TOTAL			11.4 FU]		
18.	PROVIDE OPPOSED BLADE VOLUME DAMPERS AND STAINLESS STEEL BIRDSCREENS FOR ALL OUTSIDE AIR DUCTS AND LOUVERS.					14.0 GPM 840 GPD			
19.	ALL SWITCHES, TIMECLOCKS, THERMOSTATS, AND CONTROL ITEMS SHALL BE ADA ACCESSIBLE AND SHAL BE MOUNTED AT 44" AFF AS PER ADA REQUIREMENTS OR ACCORDING TO THE STATE'S INSTRUCTIONS.	L	L						
20.	PROVIDE REBALANCING DURING ONE YEAR GUARANTEE PERIOD TO SATISFY USER'S REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEST AND BALANCING REPORTS.								
21.	COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS.								
22.	EXISTING PLUMBING/STORM DRAIN/CONDUITS SHALL BE REHUNG/REROUTED AS REQUIRED TO ACCOMMODATE NEW HVAC EQUIPMENT AND DUCTWORK. VERIFY ALL WASTE AND WATER INVERTS, LOCATIONS, SIZES, AND CONDITIONS OF PIPING.								
23.	ALL HVAC DUCTWORK SHALL HAVE EITHER TURNING VANES OR RADIUS ELBOWS AT EACH BEND OR ELBOW WHETHER SHOWN ON THE DRAWINGS OR NOT.								
24.	SEISMICALLY BRACE ALL EQUIPMENT, PIPING, AND DUCTWORK IN ACCORDANCE WITH THE CURRENT BUILDING CODE AND THEIR RESPECTIVE SEISMIC ZONE LOCATIONS.								
25.	TONE AND LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED TRENCH WORK PRIOR TO START OF EXCAVATION. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES. AT NO COST TO THE STATE.								
26.	PROVIDE DIELECTRIC UNIONS OR SEPARATIONS AT ALL DISSIMILAR METALS. PROVIDE UNIONS AFTER ALL SHUTOFF VALVES								
27.	PROVIDE ACCESS PANELS FOR ALL ITEMS UNDER THIS SECTION REQUIRING SERVICING, INSPECTION,								

27. PROVIDE ACCESS PANELS FOR ALL ITEMS UNDER THIS SECTION REQUIRING SERVICING, INSPECTION, MAINTENANCE, AND ADJUSTMENT.

28. PROVIDE ESCUTCHEON PLATES AT ALL EXPOSED WALL PENETRATIONS IN FINISHED AREAS, EXTERIOR WALL, ETC.

- CONFORM TO ALL REQUIREMENTS OF THE 2018 IBC, 2018 UPC, 2018 IECC AND 2012 NFPA 1 CODES 29. ALL PENETRATIONS THRU EXISTING WALLS, FOUNDATIONS, AND FLOOR SLABS SHALL BE IN TOTAL
 - APPROVED FIRE
 - OR ANY OTHER
 - I DUCTWORK
 - IPING SHALL ALSO
 - RAPS, ETC. SHALL
 - ARCHITECTURAL AND
 - S THROUGH HAT DOES NOT HAVE
 - JACENT SURFACES

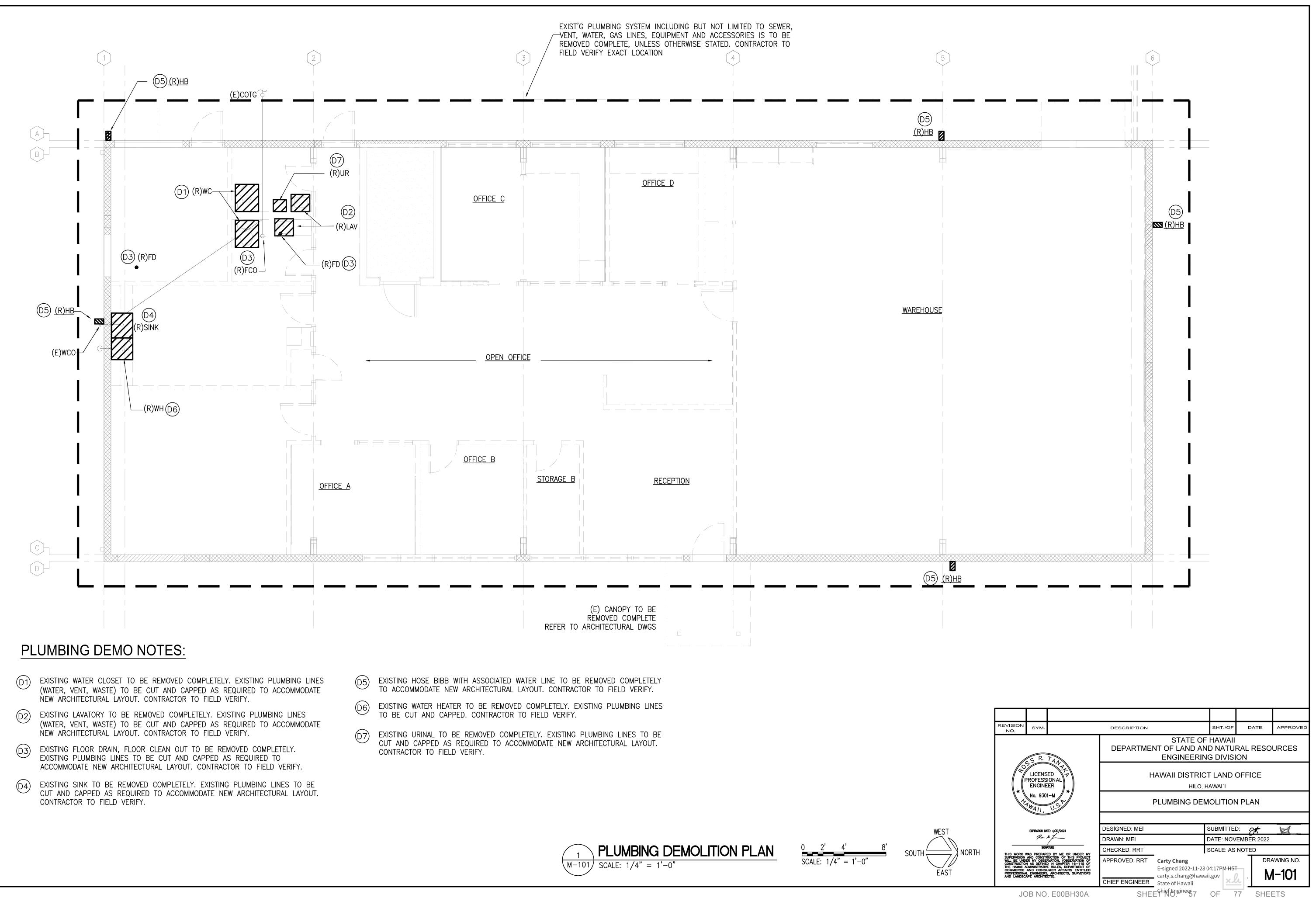
 - RETURNED WITHOUT

		AL LEGEND
	1	
SYMBOL GENERAL	ABBREV.	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	BFF	Below Finished Floor
	DN	DOWN
	EA	EACH
(E)		EXISTING
(N)		NEW
	NTS	NOT TO SCALE
	POC	POINT OF CONNECTION
(R)		REMOVE
	(חעד)	TYPICAL
HVAC	(TYP)	
	ACCU	AIR COOLED CONDENSING UNIT
CD	CD	CONDENSATE DRAIN
		CUBIC FEET PER MINUTE
	DT	DUCT
	EA	EXHAUST AIR
	EAR	EXHAUST AIR REGISTER
	EF	EXHAUST FAN
	FCU	FAN COIL UNIT
\sim		FLEX DUCTWORK
	F.D.	FIRE DAMPER
	NK	NECK
	OA	OUTSIDE AIR
	OBVD	OPPOSED BLADE VOLUME DAMPER
	RAR	RETURN AIR REGISTER
	SAD	SUPPLY AIR DIFFUSER
	SAR	SUPPLY AIR REGISTER
(T)	T-STAT	THERMOSTAT
	TV	TURNING VANES
	U/D	UNDERCUT DOOR
PLUMBING	0/0	
	A-	ACCESSIBLE
	ASK	ACCESSIBLE SINK
	COTG	
		CLEAN OUT TO GRADE
	CW	COLD WATER
φ	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	GPD	GALLONS PER DAY
	GPM	GALLONS PER MINUTE
+> <i>Y</i>	HB	HOSE BIBB
	HW	
	IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
	LAV	LAVATORY
	MS	MOP SINK
	S	SANITARY/WASTE
	SK	SINK
	SOV	SHUT OFF VALVE
	UR	URINAL
	V	VENT
	VTR	VENT THRU ROOF
	WC	WATER CLOSET
	wco	WALL CLEANOUT
FIRE PROT		
	FE	FIRE EXTINGUISHER
	I FE	I INE EATINGUISHEK
*		CONCEALED FIRE
- \$ -	FS	CONCEALED FIRE SPRINKLER HEAD FIRE RATED PARTITION

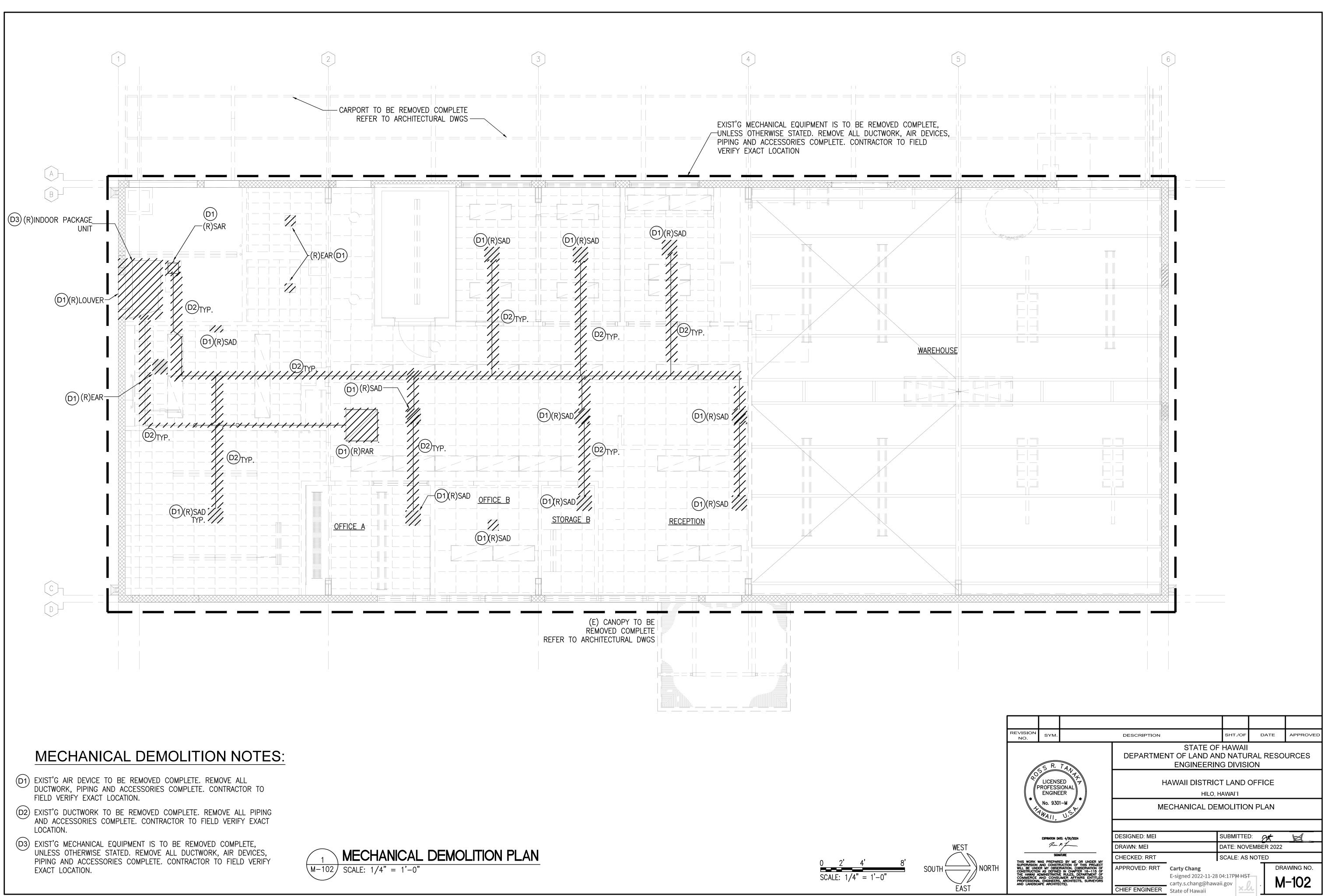
HAWAI'I	COUNTY ENERGY CODE			
2018 IECC, HAWAI'I REVISED ADMINISTRA	STATUTES HRS 107–24 TIVE RULES HAR 3–181.		3 & HAW	/AI'I
COMMERCIAL BUILDIN	IG ENERGY EFFICIENCY S	STANDAF	RDS	
I CERTIFY THAT, TO THE BEST OF MY	KNOWLEDGE, THIS PROJECTS DI	ESIGN SU	BSTANTIALL	r
CONFORMS TO THE BUILDING ENERGY	EFFICIENCY STANDARDS PERTAIN	IING TO T	ΉE	
COMMERCIAL PROVISIONS FOR MECHAN		<u>ID C405)</u>	OF THE 2	018
IECC WITH AMENDMENTS PER HAR 3-1	181.1:			
STATE AMENDMENTS: EFFECTIVE	FOR NEW APPLICANTS BEGINN	ING 09/0	1/2021	
	AMENDMENTS: PENDING	,	,	
COMPLIANCE METHOD				
🖾 2018 IECC AS AMENDED. MAN	DATORY & PRESCRIPTIVE			
🗌 2018 IECC AS AMENDED. MAN	DATORY & TOTAL BUILDING PER	FORMANC	E	
ASHRAE STANDARD 90.1-2016				
ASHRAE STANDARD 90.1–2016	5. MANDATORY & ENERGY COST	BUDGEI		
INFORMATION IN CONSTRUCTION DOCUM	MENIS	Ň	YES	N/A
EQUIPMENT CAPACITY AND EFFICIEN	ICY. C403.3		\boxtimes	
THERMOSTATIC CONTROLS. C403.4				
GUEST ROOM DOOR SWITCHES. C40	03.2.3			
VENTILATION RATE. C403.7 DEMAND CONTROL VENTILATION CO				
ENCLOSED PARKING GARAGE VENTIL				
ENERGY RECOVERY VENTILATION SY				
KITCHEN EXHAUST SYSTEMS. C403.				
DUCT AND PLENUM INSULATION TH DUCT AND PLENUM SEALING REQUI	REMENTS C403.11.1		\boxtimes	
PIPE INSULATION THICKNESS/R-VA			\boxtimes	
FAN MOTOR HORSEPOWER. C403.8.				
FAN EFFICIENCY. C403.8.3 FAN MOTOR EFFICIENCY. C405.7				
PUMP MOTOR EFFICIENCY. C405.7				
VARIABLE FLOW FAN CONTROL. C4(
STATIC PRESSURE SENSOR LOCATIC				
STATIC PRESSURE RESET CONTROL CHILLED WATER VARIABLE FLOW CO	NTROL C403.4.4			
CHILLER ISOLATION. C403.4.5				
COOLING TOWER FAN CONTROL. C4				
TERMINAL UNIT MINIMUM AND MAXI COMMISSIONING REQUIREMENTS. C4				
	00.2			
REFRIGERATION			_	
REFRIGERATION EQUIPMENT EFFICIE WALK-IN COOLERS AND FREEZERS	NCY. C403.10 C403.10.1 C403.10.2 & C401	3 10 4		\boxtimes
REFRIGERATED WAREHOUSES. C403	.10.1 & C403.10.4	5.10.4		
REFRIGERATED DISPLAY CASES. C40				
SERVICE WATER HEATER				
HEAT RECOVERY FOR SERVICE WAT	ER HEATING. C403.9.5			
EQUIPMENT CAPACITY AND EFFICIEN	ICY. C404.2			
PIPE INSULATION. C404.4	0404 5			X X X X X X X X X X X X X X X X X X X
HOT WATER PIPE LENGTH/VOLUME. HOT WATER CIRCULATION CONTROLS				
HEATED POOL AND SPA COVERS.				
COMMISSIONING REQUIREMENTS. C4	-08.2			
NOTES				
SIGNATURE:Rom K	DATE: <u>11/07/2022</u>			
NAME:	ΝΑΚΑ	55 R. 1	AA	
			NZ I	
TITLE: <u>VICE PRES</u>		PROFESSIO	DNAL 🖌 💧	
LICENSE NO.: 9301-	M \+	No. 9301-	🛥	
PROJECT NAME: HAWAII DISTE	RICT LAND OFFICE	THAMAII,	S.F.	
PROJECT TMK: (3) <u>2-2-0</u>	32: 011		0.000	
		EXP. 4-30-	-2024	
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EXPIRATION DATE: 4/30/2024 Rom Re Jacob	DRAWN: MEI		/EMBER 2022	H
	CHECKED: RRT	SCALE: AS		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF	APPROVED: RRT Carty Chang			AWING NO.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPF ARCHITECTS.)	E-signed 2022-11-28			1_001
AND LANDSCAPE ARCHITECTS).	CHIEF ENGINEER State of Hawaii	an.guv	KII IV	I-001

JOB NO. E00BH30A

SHEETING. SHEETS

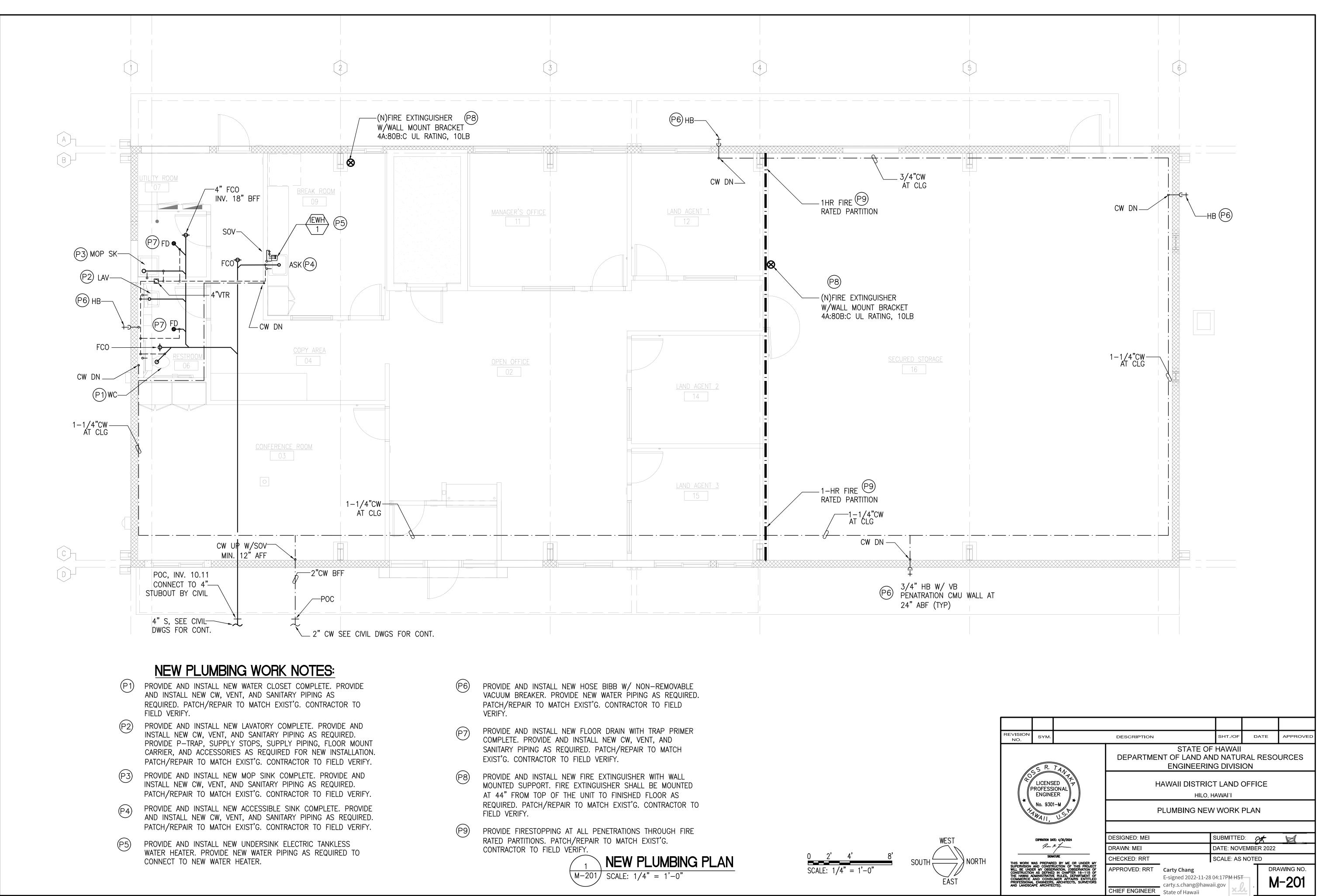


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JOB NO. E00BH30A

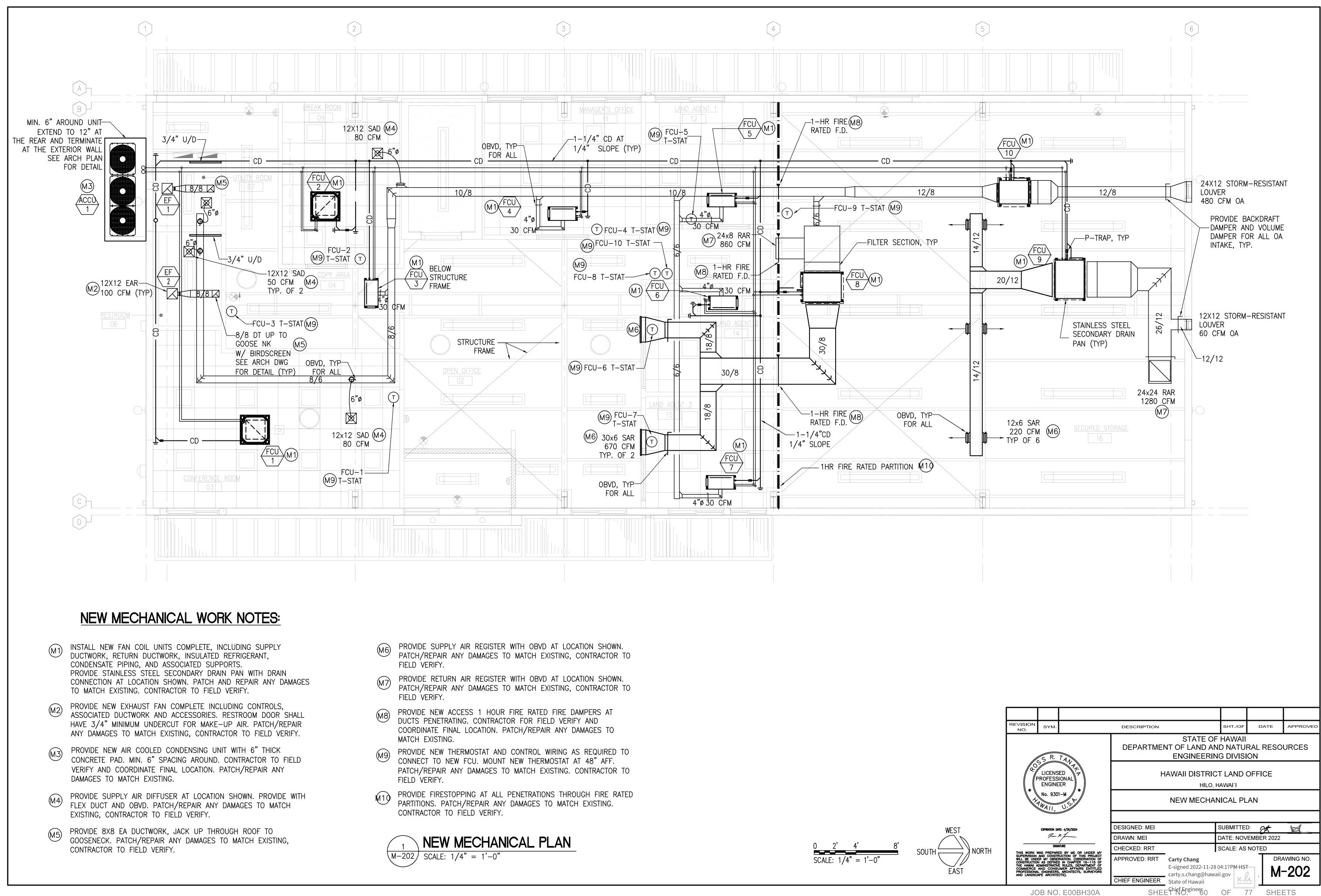
SHEET SHEETS OF 77 SHEETS



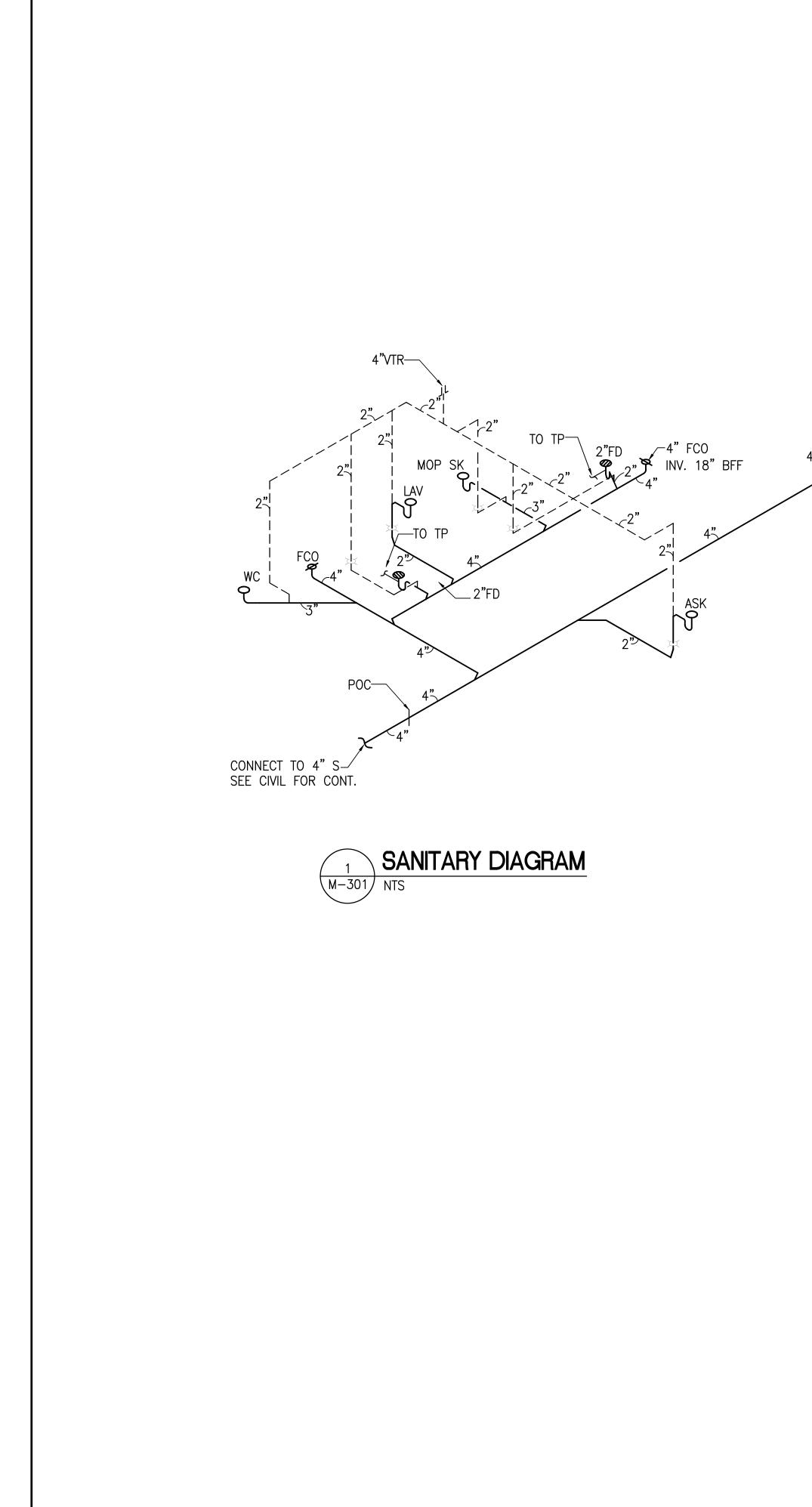
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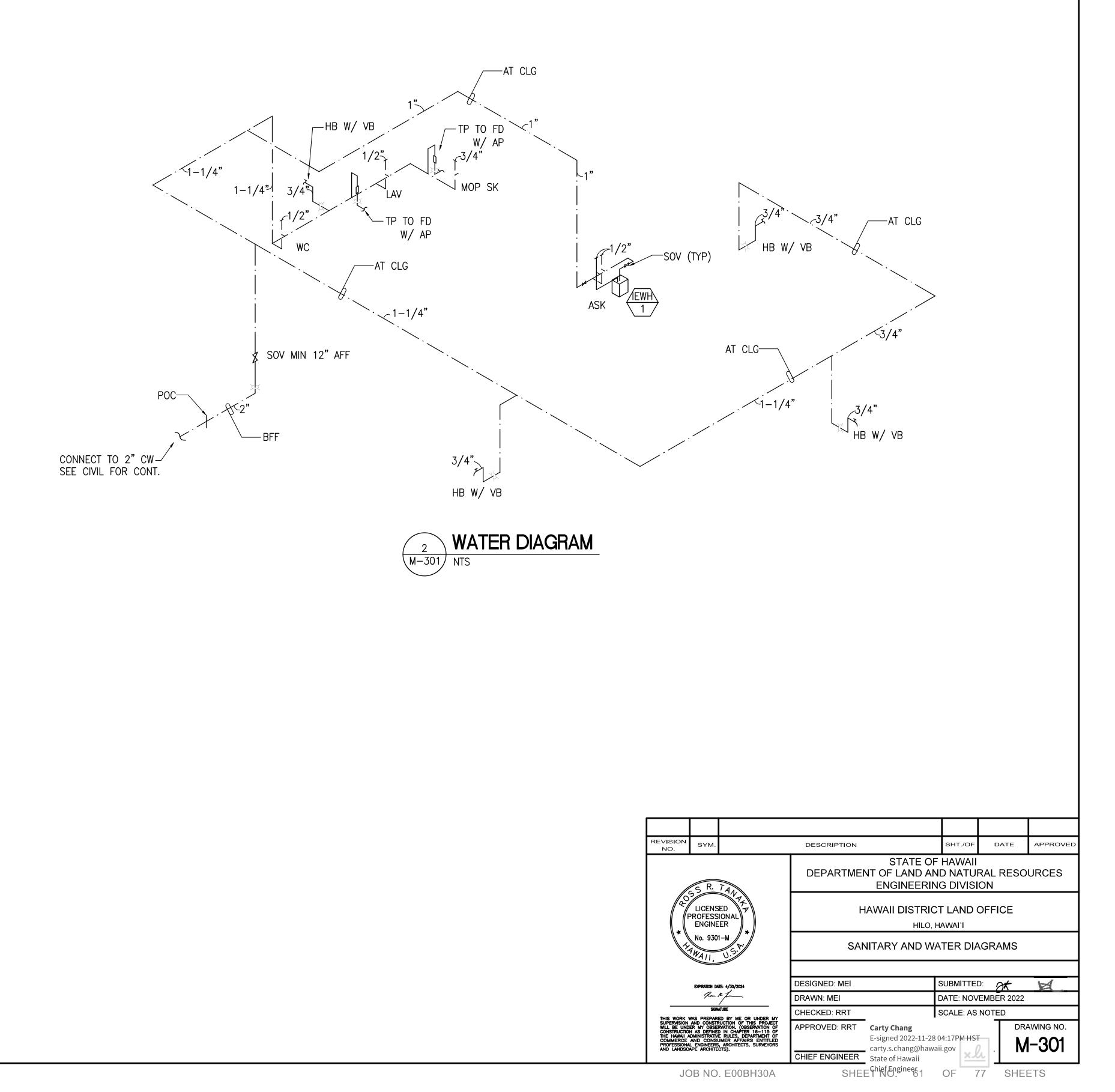
SHEETNO 59

OF 77 SHEETS



OF 77 SHEETS





4" FCO

MECHANICAL EQUIPMENT SCHEDULE

PROVIDE INTEGRAL MAGNETIC STARTER/DISCONNECTS WITH AUTOMATIC RESET FOR ALL UNITS. PROVIDE NEMA-4X STARTER ENCLOSURE FOR ALL OUTDOOR EQUIPMENT. ALL OUTDOOR EQUIPMENT SHALL HAVE POLYSILOXANE COATING PROTECTION ON INSIDE AND OUTSIDE OF HOUSING. COILS(CONDENSER) SHALL HAVE BLYGOLD POLUAL COATING. PROVIDE HORIZONTALLY AND VERTICALLY RESTRAINED SPRING ISOLATORS WITH NEOPRENE DIPPED SPRINGS AND GALV. HOUSINGS ON ALL EQUIPMENT. PROVIDE 1/2" RUBBER PAD FOR ACCU, AND SPRING ISOLATORS FOR FCU. PROVIDE PLASTIC COATED CABLE SWAY BRACING ALL SUSPENDED EQUIPMENT. PROVIDE FLEXIBLE DUCT CONNECTIONS AT ALL EQUIPMENT. PROVIDE S.S. BIRDSCREEN AT ALL NEW & EXISTING OA INTAKES. PROVIDE PHASE FAILURE/PHASE REVERSAL/OVER VOLTAGE/UNDER VOLTAGE ELECTRICAL PROTECTION. PROVIDE CONTROL VOLTAGE TRANSFORMERS. PROVIDE SILICONE PROTECTION TO ALL CIRCUIT BOARDS TO PREVENT SHORT CIRCUITING CAUSED BY GECKO ETC.

VRF SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE

UNIT	JNITS MANUFACTURER			SUPPLY	OUTSIDE	ESP	TOTAL CAPACITY	ENT AI	R TEMP		ELEC	FRICAL		REFRIG	LINES*	COND	MAX SOUND	OPR WT	
NO.	AND MODEL	LOCATION	TYPE	AIR, CFM	AIR, CFM	(IN WG)	(BTUH)	db (°F)	wb (°F)	V	ø	Hz	MCA	LIQ	GAS	DRAIN	LEVEL (dBA)	(LBS)	REMARKS
FCU 1	MITSUBISHI PLFY-P24NEMU-E OR APPROVED EQUAL	CONF ROOM	4–WAY CASSETTE	770	80	_	24,000	80	67	208	1	60	0.51	3/8"	5/8"	1-1/4"	37	46	PROVIDE NEOPRENE ISOLATO COATING ON CONDENSER CO
FCU 2	MITSUBISHI PLFY-P24NEMU-E OR APPROVED EQUAL	BREAK ROOM	4–WAY CASSETTE	560	70	_	12,000	80	67	208	1	60	0.33	1/4"	1/2"	1-1/4"	31	42	PROVIDE FILTER BOX WITH I
FCU 3	MITSUBISHI PMFY–P08NBMU–E OR APPROVED EQUAL	COPY AREA	1–WAY CASSETTE	320	30	_	8,000	80	67	208	1	60	0.25	1/4"	1/2"	1-1/4"	37	31	
FCU 4	MITSUBISHI PMFY-P12NBMU-E OR APPROVED EQUAL	MANAGER	1-WAY CASSETTE	320	30	_	12,000	80	67	208	1	60	0.26	1/4"	1/2"	1-1/4"	37	31	
FCU 5	MITSUBISHI PMFY—P08NBMU—E OR APPROVED EQUAL	LAND AGENT 1	1-WAY CASSETTE	320	30	_	8,000	80	67	208	1	60	0.25	1/4"	1/2"	1-1/4"	37	31	
FCU 6	MITSUBISHI PMFY–P08NBMU–E OR APPROVED EQUAL	LAND AGENT 2	1-WAY CASSETTE	320	30	_	8,000	80	67	208	1	60	0.25	1/4"	1/2"	1-1/4"	37	31	
FCU 7	MITSUBISHI PMFY-P08NBMU-E OR APPROVED EQUAL	LAND AGENT 3	1-WAY CASSETTE	320	30	_	8,000	80	67	208	1	60	0.25	1/4"	1/2"	1-1/4"	37	31	
FCU 8	MITSUBISHI PEFY–P36NMHU–E OR APPROVED EQUAL	SECURED STORAGE	HIGH STATIC DUCTED	1340	70	1	36,000	80	67	208	1	60	4.23	3/8"	5/8"	1-1/4"	41	155	
FCU 9	MITSUBISHI PEFY–P36NMHU–E OR APPROVED EQUAL	SECURED STORAGE	HIGH STATIC DUCTED	1340	60	1	36,000	80	67	208	1	60	4.23	3/8"	5/8"	1-1/4"	41	155	
FCU 10	MITSUBISHI PEFY-P24NMHU-E OR APPROVED EQUAL	SECURED STORAGE	HIGH STATIC DUCTED	480	480	1	24,000	80	67	208	1	60	1.57	3/8"	5/8"	1-1/4"	36	100	
				1		1								1					

*CONTRACTOR SHALL CONFIRM REFRIGERANT PIPE SIZES WITH MANUFACTURER PRIOR TO PROCUREMENT.

OUTD	DOR UNIT														
UNIT NO.	MANUFACTURER AND MODEL	LOCATION	TYPE	REFRIG	NOMINAL CAPACITY (TONS)	TOTAL CAPACITY (BTUH)	AMBIENT AIR TEMP (°F)	MIN EER	V	ELEC [®]		МСА	MOCP	OPR WT (LBS)	REMARKS
ACCU	MITSUBISHI PUHY-P192TNU-A(-BS)	GROUND	VARIABLE REFRIG	R-410a	16	192,000	95	_	208	3	60	33	50	1106	CONSISTS OF TWO PUHY-P96TNU-A (-BS) AND CMY-Y
$\begin{pmatrix} 1 \\ 1 \end{pmatrix}$	OR APPROVED EQUAL		FLOW						208	3	60	33	50		STARTER AND DISCONNECT,

FAN SCH	HEDULE										
UNIT	AREA SERVED	TYPE	CFM	ESP (INCH WG)	FAN RPM	EL W	ECTRICAL	H HZ	MAX SONE	MAKE & MODEL OR APPROVED EQUAL	REMARKS
EF 1	UTILITY ROOM	CEILING EXHAUST	100	0.4	935	80	115 1	60	2.0	GREENHECK SP-110-VG OR APPROVED EQUAL	INTERLOCK WITH LIGHT SWITCH. PROVIDE UNIT MOUNTED SPEED CONTROLLER. PROVIDE BAC
EF 2	RESTROOM	CEILING EXHAUST	100	0.4	935	80	115 1	60	2.0	GREENHECK SP-110-VG OR APPROVED EQUAL	INTERLOCK WITH LIGHT SWITCH. PROVIDE UNIT MOUNTED SPEED CONTROLLER. PROVIDE BAC

WATER	HEATER SC	HEDULE										
UNIT	MANUFACTURER AND MODEL	LOCATION	SERVICE	ACTIVATION GPM	TEMP. RISE @ 1.0 GPM FLOW	WATTS	ELE VOLTS	CTRICAL AMPS	ø	Hz	OPR WT POUNDS	REMARKS
(IEWH) 1	CHRONOMITE E-60L/208	BREAK ROOM	DOMESTIC	0.35	41°F	6000	208	29	1	60	8	TANKLESS TYPE WATER HEATER, INSTALL UNDER COUNTER

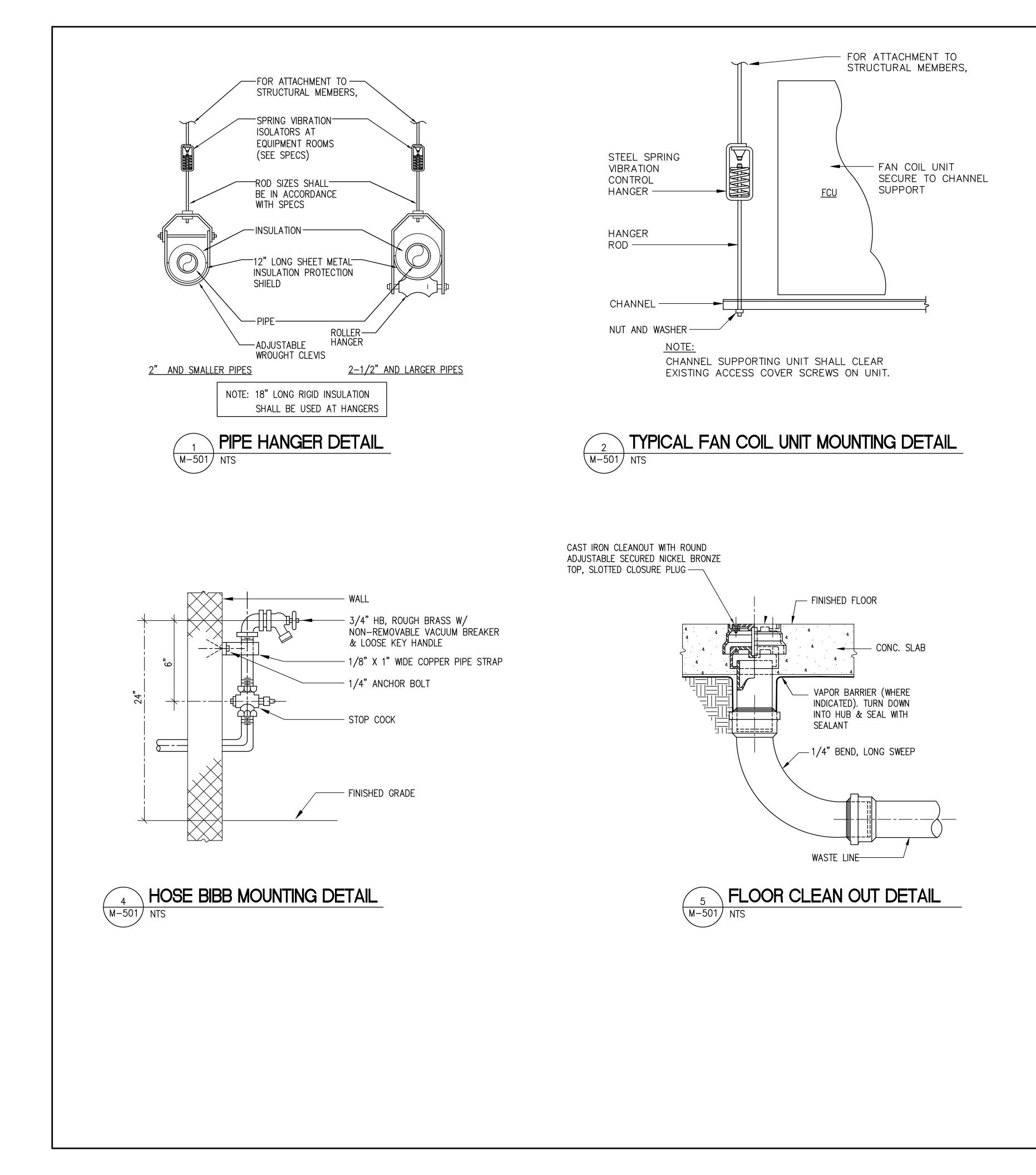
LATORS, STARTER AND DISCONNECT, FACTORY APPLIED CORROSION INHIBITOR R COIL, PROGRAMMABLE THERMOSTAT, CASING, AND FACTORY CONDENSATE PUMP. TH MERV 13 MINIMUM FILTER.

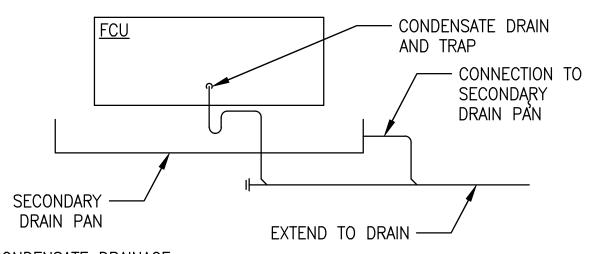
Y-Y100CBK3 TWINNING KIT. PROVIDE 6" CONCRETE PAD, NEOPRENE ISOLATORS,

BACKDRAFT DAMPERS AND OBVD'S. PROVIDE WITH ISOLATOR KIT

BACKDRAFT DAMPERS AND OBVD'S. PROVIDE WITH ISOLATOR KIT

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED						
	ς R.	TA	DEPARTME	STATE OF NT OF LAND AN ENGINEERIN	ID NATU		OURCES						
Q Q F	LICENS ROFESS ENGINE	IONAL	F	HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I									
	No. 930 WAII,	I-M *	MECHANICAL EQUIPMENT SCHEDULE										
	EXPIRATION DA	TE: 4/30/2024	DESIGNED: MEI		SUBMITTE	D: At	Ø.						
	Rom.	et_	DRAWN: MEI		DATE: NOV	/EMBER 2022							
THIS WORK W		ATURE	CHECKED: RRT		SCALE: AS	NOTED							
SUPERVISION WILL BE UNDI CONSTRUCTIOI THE HAWAII A COMMERCE	AND CONSTR ER MY OBSEI N AS DEFINEI DMINISTRATIV AND CONSI	DUBT ME OR UNDER MIT IUCTION OF THIS PROJECT RVATION (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	APPROVED: RRT	Carty Chang E-signed 2022-11-28 carty.s.chang@hawa			awing no. 1-401						
AND LANDSC/	VPE ARCHITE		CHIEF ENGINEER	State of Hawaii	x)	<u> </u>							
JC	B NO	. E00BH30A	SHE	ETHNO 62	OF 7	77 SHE	ETS						





CONDENSATE DRAINAGE THE TENANT'S CONTRACTOR SHALL PROVIDE CONDENSATE TRAP AND CONDENSATE DRAIN PIPING. PIPING SHALL BE EXTENDED FOR DISCHARGE INTO AN INDIRECT WASTE CONNECTION FROM THE SECONDARY DRAIN PAN SHALL BE PROVIDED. IN THE EVENT THE CONDENSATE CAN NOT BE DRAINED BY GRAVITY PROVIDE A CONDENSATE PUMPING SYSTEM COMPLETE WITH PUMP FAILURE / HIGH WATER ALARM.



CONDENSATE DRAIN CONNECTION DETAIL

REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED					
	S R.	TAA	DEPARTME	STATE OF NT OF LAND AN ENGINEERIN	ND NATU		URCES					
	LICENS		F	IAWAII DISTRIC HILO,	CT LAND HAWAI`I	OFFICE						
	No. 930 AWAII,	I-M *	MECHANICAL DETAILS									
	EXPIRATION DA	TE: 4/30/2024	DESIGNED: MEI		SUBMITTE	D: At	×.					
	Rom.	et_	DRAWN: MEI		DATE: NOV	EMBER 2022						
THIS WORK		ATURE	CHECKED: RRT		SCALE: AS	NOTED						
SUPERVISION WILL BE UND CONSTRUCTIO	AND CONSTR DER MY OBSE IN AS DEFINE	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED: RRT	Carty Chang			awing No.					
THE HAWAII A COMMERCE PROFESSIONA AND LANDSC	ADMINISTRATIV AND CONSU L ENGINEERS APE ARCHITE	ED BY ME OR UNDER MY IUCTION OF THIS PROJECT XVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF IMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 carty.s.chang@hawa State of Hawaii			-501					
JC	DB NO	. E00BH30A	SHE	ETHOE Engineer 3	OF 7	77 SHE	ETS					

	GENERAL ELECTRICAL NOTES
1.	ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR NECESSARY PERMITS.
2.	CONTRACTORS SHALL VISIT SITE AND FAMILIARIZE THEMSELVES WITH DETAILS OF THE WORK AND EXISTING FIELD CONDITIONS PRIOR TO START OF WORK. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE AND ENDEAVORED TO RESOLVE QUESTIONS AND DISCREPANCIES PRIOR TO SUBMITTING A BID.
3.	CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. RELOCATE EXISTING EQUIPMENT, CONDUIT AND WIRING AS NECESSARY TO ACCOMMODATE NEW WORK.
4.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADE CONTRACTORS FOR SPACE REQUIREMENTS, ETC. COORDINATE NEW LIGHT FIXTURE LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO START OF MECHANICAL, AND PLUMBING WORK.
5.	SHOULD THE CONTRACTOR FIND DISCREPANCIES IN THE CONTRACT DOCUMENTS, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT.
6.	THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUITS, OUTLETS, ETC. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWINGS. ELECTRICAL WORK SHALL FIT TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
7.	REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL GENERAL NOTES.
8.	THE CONTRACTOR SHALL PAY FOR ALL THE ELECTRICAL COSTS (INCLUDING CONNECTION, MONTHLY USAGE, DEMAND, CUSTOMER, SURCHARGES AND BASE RATE CHARGES) UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE STATE.
9.	THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC UTILITY COMPANY TO CONNECT THE ELECTRIC POWER PRIOR TO START OF WORK.
10.	FOR ALL LUMINAIRES, ALL SCREWS, NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
	CENERAL DEMOLITION NOTES.
	GENERAL DEMOLITION NOTES:
1.	DEVICES, FIXTURES AND CONNECTIONS SHOWN ON DEMOLITION PLAN ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL IDEA OF WHAT ELECTRICAL ITEMS ARE BEING REMOVED OR RETAINED. DEMOLITION PLANS DO NOT INDICATE COMPLETE EXISTING WIRING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF SITE TO DETERMINE ACTUAL CONDITIONS OF INSTALLATION AND QUANTITIES OF EXISTING EQUIPMENT BEFORE SUBMITTING BID.
2.	DEMOLITION WORK SHALL BE PERFORMED WITH CARE NOT TO DISTURB THE OTHER EXISTING UTILITIES. BEFORE WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO BE CUT TO ASSURE THAT SERVICES REQUIRED ARE NOT DISCONNECTED. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, THE EXISTING UTILITIES SHALL BE REPAIRED TO ITS ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
3.	DEMOLISH AND REMOVE EXISTING ITEMS AS REQUIRED TO DO NEW WORK. REMOVE WORK NOTED TO BE REMOVED ON CONSTRUCTION DRAWINGS AND UNUSED ELECTRICAL EQUIPMENT, ASSOCIATED CONDUIT AND WIRING. REPAIR AND REPLACE EXISTING STRUCTURES, EQUIPMENT, CABLES, OR UTILITIES THAT MAY BE DAMAGED DURING THE COURSE OF CONSTRUCTION TO A CONDITION THAT IS EQUAL OR BETTER THAN EXISTING CONDITION.
4.	CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE AND PATCHED TO MATCH EXISTING SURFACE.
5.	WHEN EXISTING DEVICES, EQUIPMENT, ETC. ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC. EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.
6.	CONTRACTOR SHALL REMOVE EXISTING CONDUITS, WIRING, AND ANY OTHER CABLING BACK TO SOURCE THAT IS NO LONGER IN USE.
7.	CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ITEMS TO BE DEMOLISHED.

ELECTRICAL SYMBOLS

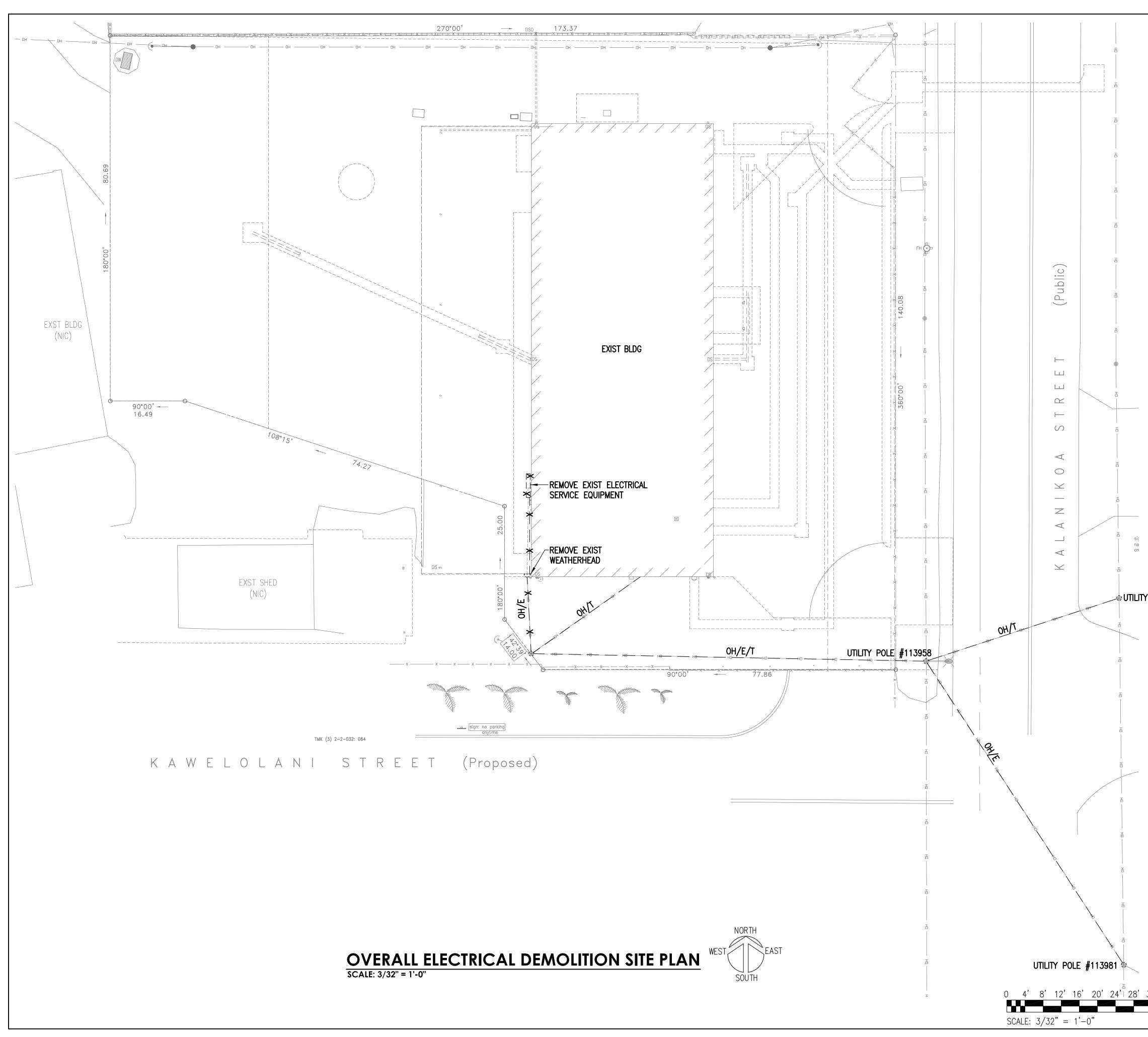
	EVICT		LLLUTNICAL STWIDULS
REMOVE	<u>EXIST</u>	<u>NE₩</u> ⊶O	LIGHT POLE WITH LED LUMINAIRE
		⊡→	LED FLOOD LIGHT LUMINAIRE, WALL MOUNTED
			2'x4' FLUORESCENT LUMINAIRE, CEILING MOUNTED
			1'x8' FLUORESCENT LUMINAIRE, CEILING MOUNTED
Ø			FLUORESCENT LUMINAIRE, CEILING MOUNTED
} \≻ ¥†			FLUORESCENT STRIP LUMINAIRE, CEILING MOUNTED
ΗŽ			FLUORESCENT LUMINAIRE, WALL MOUNTED
No.			FLUORESCENT FLOOD LIGHT, CEILING MOUNTED
/			2'x2' LED LUMINAIRE, CEILING MOUNTED
			1'x4' LED LUMINAIRE, CEILING MOUNTED
			1'x4' LED LUMINAIRE, SUSPENDED MOUNT
			1'x8' LED LUMINAIRE, SUSPENDED MOUNT
		ł⊖ł	EXIT LIGHT, CEILING MOUNTED, BLACKENED SEGMENT INDICATES ILLUMINATED SIDES AND ARROWS INDICATE DIRECTIONAL ARROWS
		K⊗ł	EXIT LIGHT, WALL MOUNTED, BLACKENED SEGMENT INDICATES ILLUMINATED SIDES AND ARROWS INDICATE DIRECTIONAL ARROWS
		<u>لي</u> كم م	EMERGENCY LED WALL PACK LUMINAIRE, WALL MOUNTED
		$\langle \mathbf{A} \rangle$	LUMINAIRE TYPE
×.		S	SWITCH, 1P20A, +42"
		S ₃	SWITCH, $3-WAY$, $+42"$
		S ₄	SWITCH, 4-WAY, +42"
		Ē	DIMMER SWITCH, +42"
		K© ©	OCCUPANCY SENSOR LIGHT SWITCH, WALL MOUNTED, +42" OCCUPANCY SENSOR LIGHT SWITCH, CEILING MOUNTED
ŧ		Ð	DUPLEX CONVENIENCE OUTLET, 3W, 15A, 125V, GROUNDING TYPE, +18" UNLESS OTHERWISE NOTED
		\$	DUPLEX CONVENIENCE RECEPTACLE, 3W, 15A, 125V, GROUND FAULT INTERRUPTING TYPE, +18" UNLESS OTHERWISE NOTED
		⊕ _{₩P}	DUPLEX CONVENIENCE RECEPTACLE, 3W, 15A, 125V, GROUND FAULT INTERRUPTING TYPE, WEATHERPROOF COVER +18" UNLESS OTHERWISE NOTED
B			FLOOR OUTLET, DUPLEX, 15A, 125V, GROUNDING TYPE WITH HINGED COVER
		\odot	COMBINATION FLOOR/DATA OUTLET, DUPLEX, 15A, 125V, GROUNDING TYPE WITH HINGED COVER
÷			SINGLE 125V RECEPTACLE, +90"
		R	COMBINATION TELEPHONE/DATA OUTLET, WALL MOUNTED, +18" UNLESS OTHERWISE NOTED
Y.			TELEPHONE OUTLET, WALL MOUNTED
Þ		0	JUNCTION BOX, ABOVE CEILING, 4 11/16" SQUARE MINIMUM
ΗŽ			JUNCTION BOX, WALL MOUNTED, 4 11/16" SQUARE MINIMUM
HØ;			JUNCTION BOX WITH BLANK PLATE, WALL MOUNTED, 4 11/16" SQUARE MINIMUM
X			WATER HEATER CONNECTION
		\bigotimes	MOTOR CONNECTION
			MOTOR CONTROLLER
		Ц Ф	SAFETY DISCONNECT SWITCH
			FCU CONNECTION WITH MOTOR RATED 1P20A DISCONNECT SWITCH
		EF SS	EXHAUST FAN CONNECTION WITH MOTOR RATED 1P20A DISCONNECT SWITCH
		\oplus	FIRE ALARM SMOKE DETECTOR, STAND ALONE, CEILING MOUNTED
ijin			PANELBOARD
			TELEPHONE CABINET
	_	-	TELEPHONE TERMINAL BOARD
V		J	CONDUIT STUB WIDING IN RACEWAY CONCEALED IN WALL OR CEILING
— -X -			WIRING IN RACEWAY CONCEALED IN WALL OR CEILING WIRING IN FLEXIBLE RACEWAY, 6 FEET MAXIMUM
——w— x —			WIRING IN FLEXIBLE RACEWAT, O FEET MAXIMUM WIRING IN SURFACE MOUNTED RACEWAY
-			

NOTES:

- 1. ANY CIRCUIT WITH NO FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. CIRCUITS WITH ADDITIONAL WIRES ARE INDICATED AS FOLLOWS — 111—, 3 WIRES: —1111—, 4 WIRES, ETC.
- 2. --- INDICATES GROUNDING CONDUCTOR SIZED PER NATIONAL ELECTRICAL CODE ARTICLE 250.122.
- 3. PROVIDE GROUNDING CONDUCTOR IN ALL RACEWAYS.

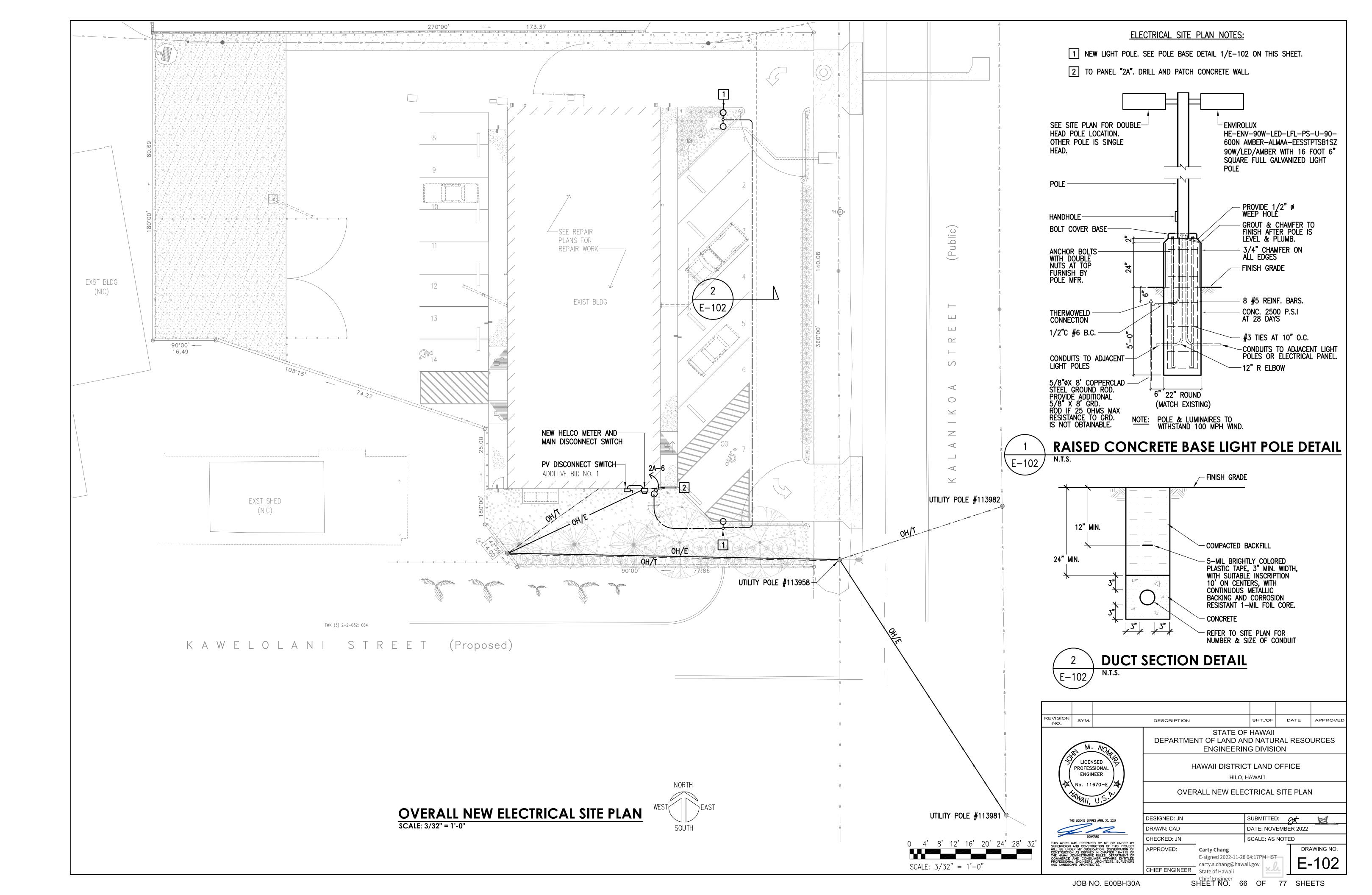
HAWAI'I COUNTY ENERGY CODE 2018 IECC, HAWAI'I REVISED STATUES HRS 107-24 TO		
ADMINISTRATIVE RULES HAR 3-181.1	28 & HAWAI'I	
COMMERCIAL BUILDING ENERGY EFFICIENCY STAN	NDARDS	
I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THIS PRO SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY EFFI PERTAINING TO THE <u>COMMERCIAL PROVISIONS FOR ELECTE</u> <u>SYSTEMS (C405 & C408)</u> OF THE 2018 IECC WITH AMENDMEN ^T	ICIENCY STAN	NDARDS <u>GHTING</u>
STATE AMENDMENTS: EFFECTIVE FOR NEW APPLICATIONS E COUNTY AMENDMENTS: PENDING	BEGINNING 09	/01/2021
COMPLIANCE METHOD 2018 IECC as amended. Mandatory & Prescriptive 2018 IECC as amended. Mandatory & Total Building Performanc ASHRAE Standard 90.1-2016. Mandatory & Prescriptive ASHRAE Standard 90.1-2016. Mandatory & Energy Cost Budge		
INFORMATION IN CONSTRUCTION DOCUMENTS	YES	N/A
Interior Lighting Occupant sensor controls. C405.2.1 Time switch controls. C405.2.2 Daylight responsive controls. C405.2.3 Daylight zones on plans. C405.2.3.2 & C405.2.3.3 Guest room controls. C405.2.4 Interior lighting fixture schedule Interior lighting power allowances. C405.3.2 Interior lighting fixture locations		
Lighting control functional performance testing requirement. C408.3 Exterior lighting	X	
Exterior lighting controls. C405.2.6 Exterior lighting fixture schedule Exterior lighting power allowances. C405.4.2 Exterior lighting fixture locations	X X X X	
Electrical Electrical transformer efficiency. C405.6 Electrical motor efficiency. C405.7 Voltage drop less than 5%. C405.9 Tenant submetering. C405.10		X X X X
NOTES		
SIGNATURE: 11-16-22		_
Name: JOHN NOMURA		NOLIE
TITLE: MCE PRESIDENT	PROFESS	
License No.: 11670–E	ENGINE	
Project Name.: HAWAII DISTRICT LAND OFFICE	No. 116	/ 1
Project TMK: (3) 2–2–032: 011	XAWAII, V	J.S.P

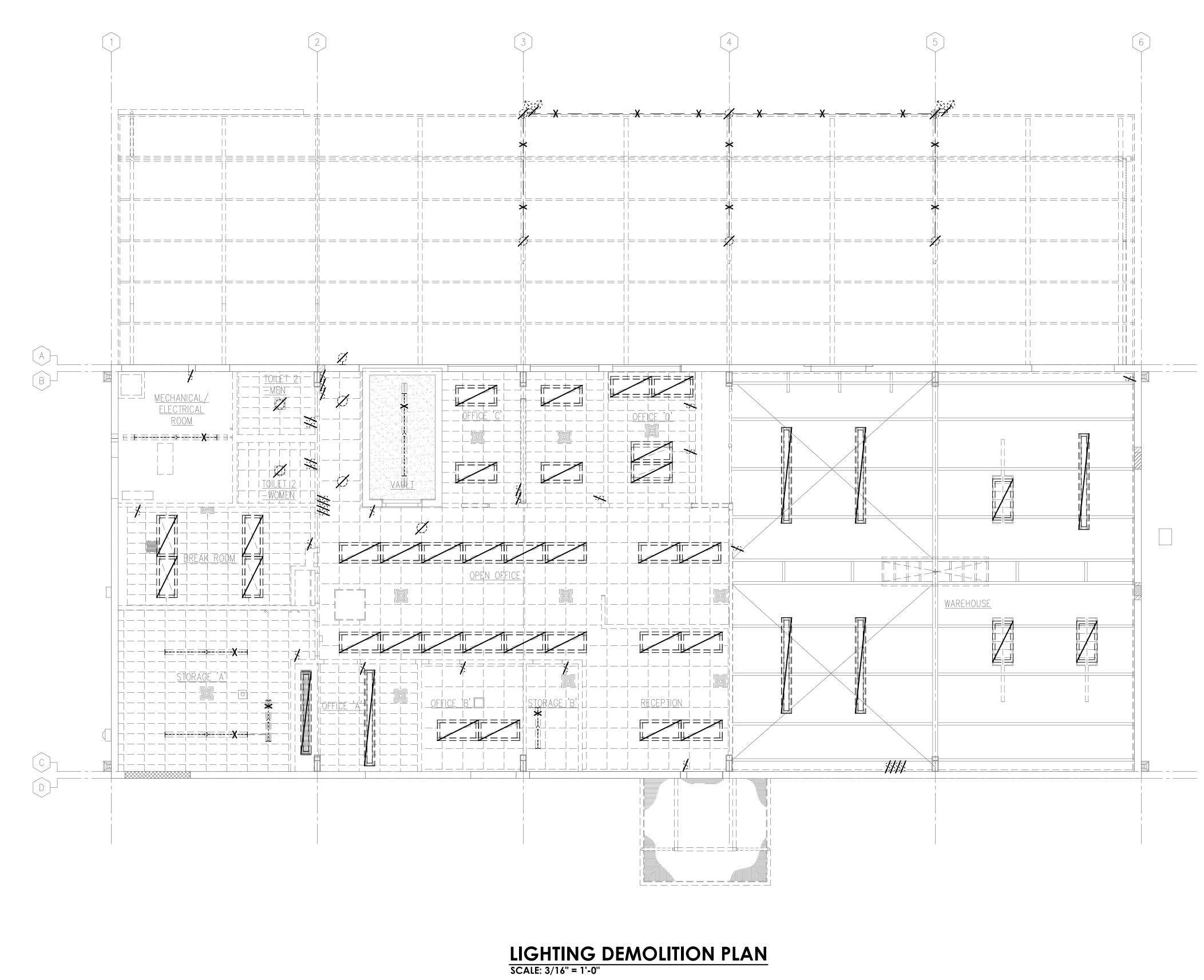
REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED	
M. NOL			STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
S LICENSED PROFESSIONAL ENGINEER		HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I						
I V.	No. 11670-E		ELECTRICAL SYMBOLS, GENERAL ELECTRICAL NOTES					
	,							
Th Th	iis license expi	RES APRIL 30, 2024	DESIGNED: JN	5	SUBMITTE	D: At	×.	
	\leq		DRAWN: CAD	[DATE: NOVEMBER 2022			
		ATURE	CHECKED: JN	5	SCALE: AS	NOTED		
SUPERVISION	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAIL ADMINISTRATIVE RULES, DEPARTMENT OF		APPROVED:	Carty Chang		DR/	AWING NO.	
I COMMERCE	AND CONSU L ENGINEERS	JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS	CHIEF ENGINEER	E-signed 2022-11-28 0 carty.s.chang@hawai State of Hawaii		2 E-	-001	
	JOB N	IO. E00BH30A	S	Chief Engineer HEET NO 64	OF	77 SHE	ETS	

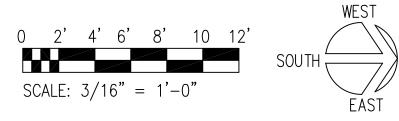


UTILITY POLE #113982

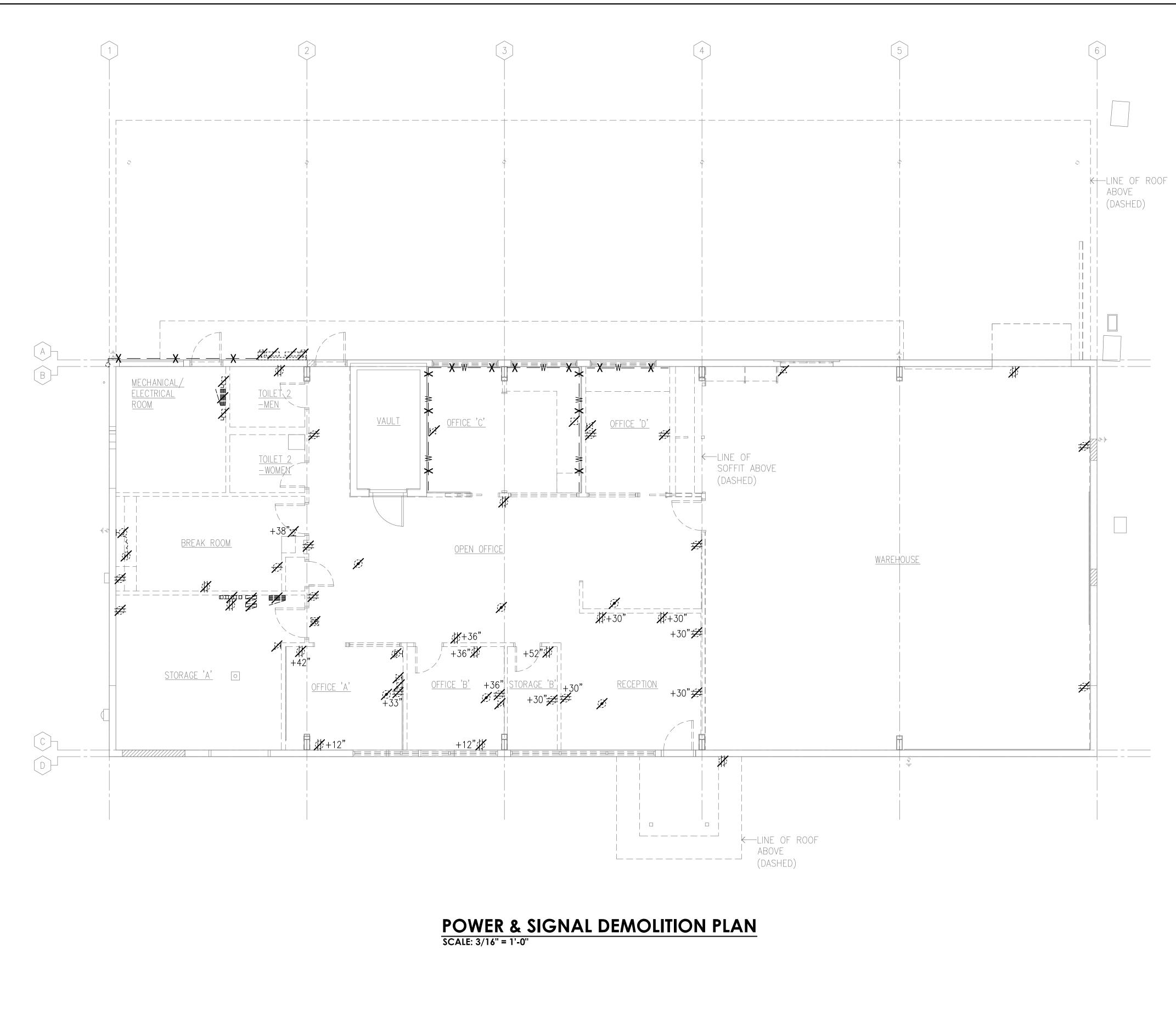
	REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED	
	M. NOAR LICENSED PROFESSIONAL ENGINEER		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION						
			HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I						
		No. 11670-E		OVERALL ELECTRICAL DEMOLITION SITE PLAN					
		-							
	тн	is license expir	ES APRIL 30, 2024	DESIGNED: JN		SUBMITTE	D: At	A	
		~		DRAWN: CAD		DATE: NOV	/EMBER 2022		
· ~ '	THIS WORK W			CHECKED: JN		SCALE: AS	NOTED		
52' •	SUPERVISION AND CONSTRUCTION WILL BE UNDER MY OBSERVATION. CONSTRUCTION AS DEFINED IN CHA	UCTION OF THIS PROJECT EVATION. (OBSERVATION OF IN CHAPTER 16-115 OF	APPROVED:	Carty Chang		DRA	WING NO.		
	THIS WORK WAS PREPARED SUPERVISION AND CONSTRUCT WILL BE UNDER MY OBSERVA CONSTRUCTION AS DEFINED IN THE HAWAII ADMINISTRATIVE R COMMERCE AND CONSUME PROFESSIONAL ENGINEERS, A AND LANDSCAPE ARCHITECTS		E RULES, DEPARTMENT OF IMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 04:17PM HST _ carty.s.chang@hawaii.gov State of Hawaii			-101	
		JOB N	IO. E00BH30A	S	Chief Engineer HEET NO. 65	OF	77 SHE	ETS	

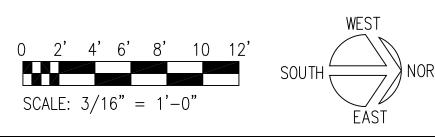




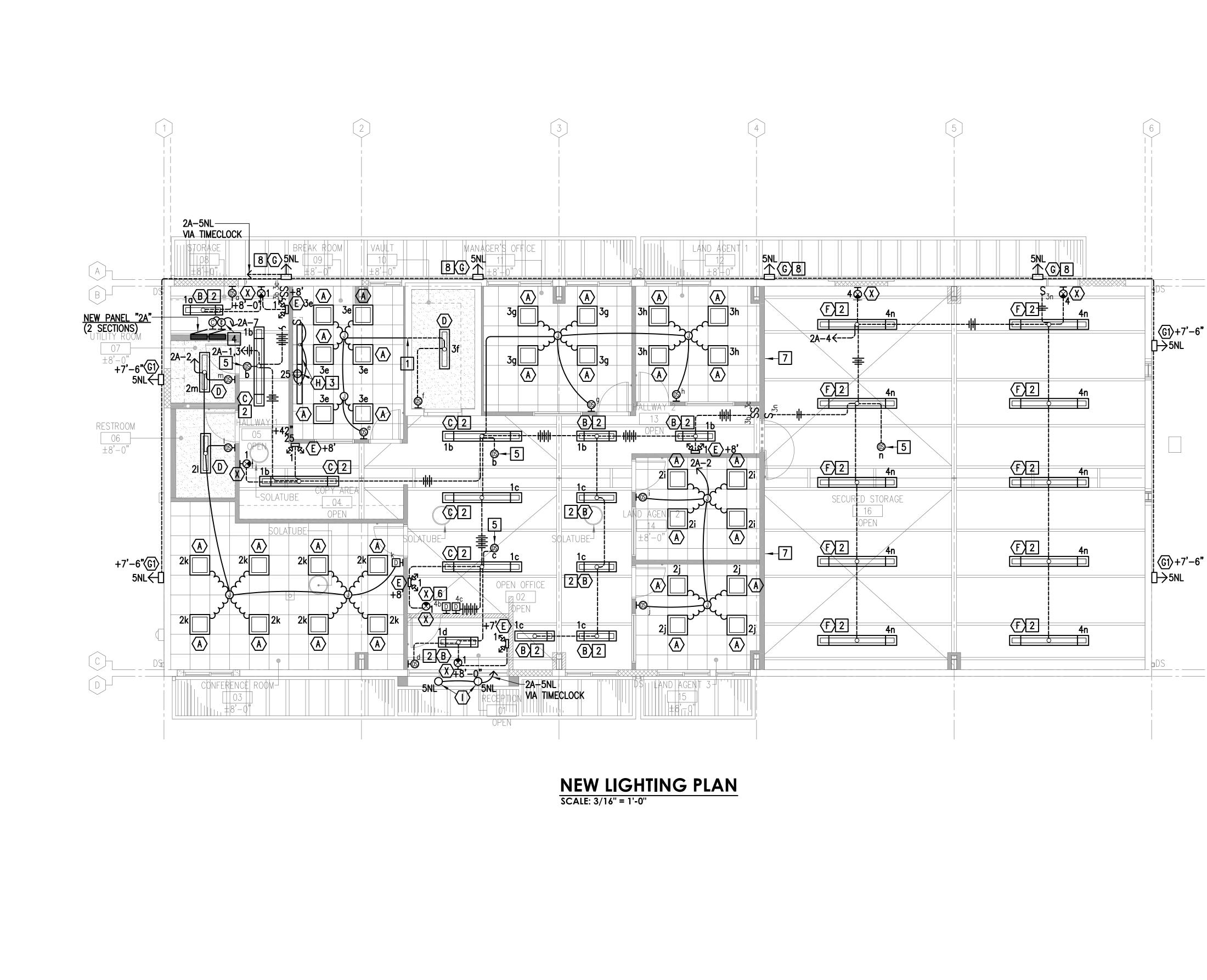


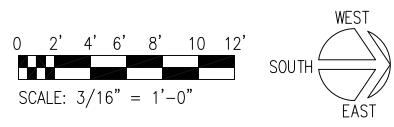
	REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED	
	HI M. NOLE LICENSED PROFESSIONAL ENGINEER		DEPARTME	STATE (NT OF LAND / ENGINEER			URCES		
			HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I						
		No. 11670-E		LIGHTING DEMOLITION PLAN					
				DESIGNED: JN		SUBMITTE	D: OK		
		IIS LICENSE EXPIR	RES APRIL 30, 2024	DRAWN: CAD			'EMBER 2022	EL.	
			TURE	CHECKED: JN		SCALE: AS	NOTED		
	SUPERVISION WILL BE UNDI CONSTRUCTION	AND CONSTR ER MY OBSER N AS DEFINE	UCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF E RULES, DEPARTMENT OF	APPROVED:	Carty Chang			AWING NO.	
	COMMERCE	L ENGINEERS	ARCHITECTS. SURVEYORS	CHIEF ENGINEER	E-signed 2022-11- carty.s.chang@ha State of Hawaii		E-	-201	
		JOB N	IO. E00BH30A	S	Chief Engineer HEET NO.	67 OF	77 SHE	ETS	





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	REVISION NO.	SYM.		DESCRIPTION		SHT./OF	DATE	APPROVED	
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	LICENSED PROFESSIONAL ENGINEER		Н	HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I					
		No. 11670-E		POWER AND SIGNAL DEMOLITION PLAN					
	TH	IS LICENSE EXPIR	RES APRIL 30, 2024	DESIGNED: JN		SUBMITTE	D: At	A	
			12	DRAWN: CAD		DATE: NOV	'EMBER 2022		
	THIS WORK W		ATURE	CHECKED: JN		SCALE: AS	NOTED		
	SUPERVISION WILL BE UNDI CONSTRUCTION	AND CONSTR ER MY OBSEI	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED:	Carty Chang		DRA	WING NO.	
	THE HAWAII A	DMINISTRATIV	È RULES, DEPARTMENT OF JMER AFFAIRS ENTITLED , ARCHITECTS, SURVEYORS CTS).	CHIEF ENGINEER	E-signed 2022-11-28 carty.s.chang@hawa State of Hawaii		2. E-	202	
		JOB N	IO. E00BH30A	S	Chief Engineer HEET NO. 68	3 OF	77 SHE	ETS	





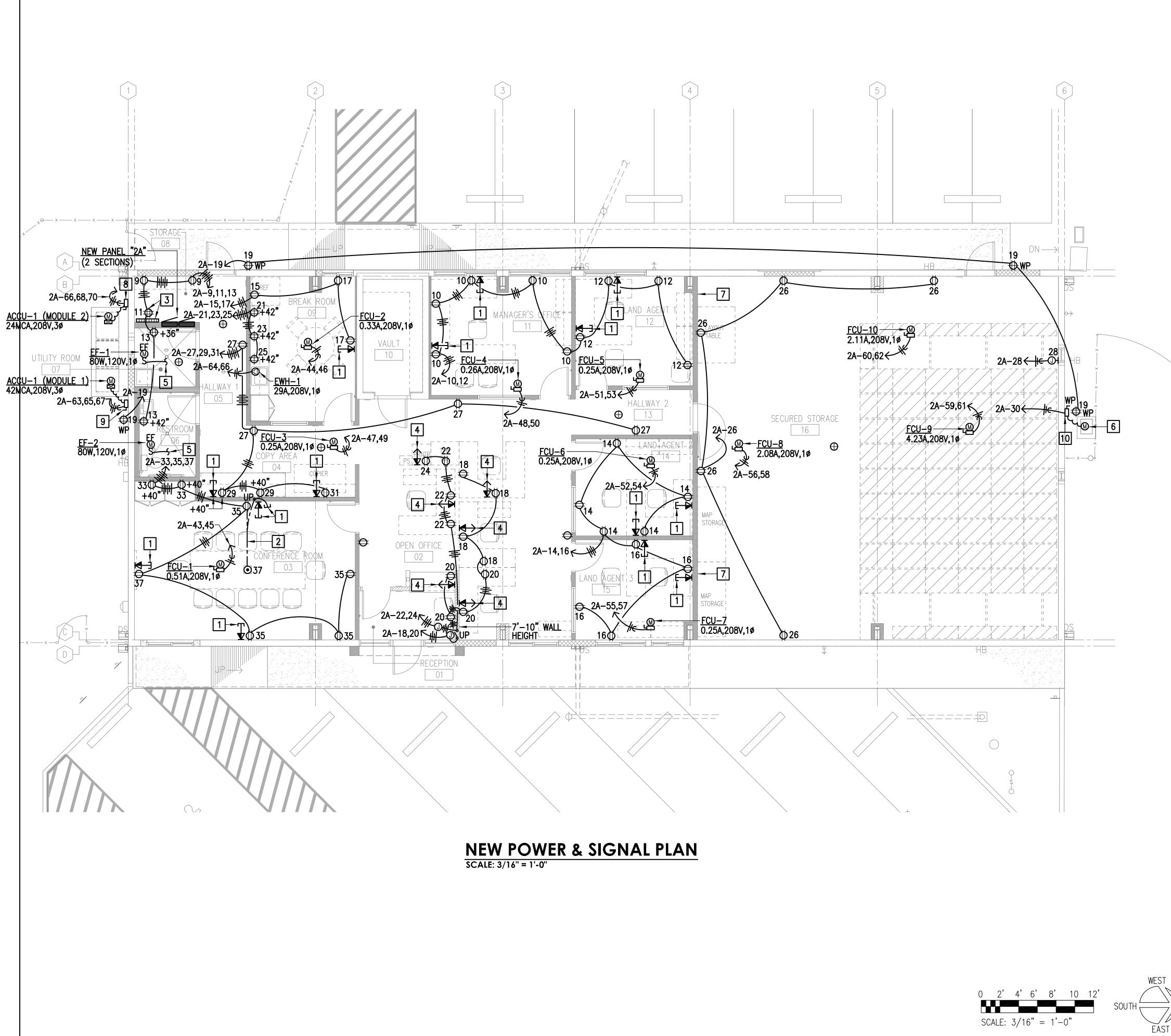
GENERAL LIGHTING NOTES

- 1. EXTERIOR CONDUITS AND JUNCTION BOXES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR. TYPICAL.
- 2. INSTALL SEPARATE NEUTRAL CONDUCTOR WITH EACH PHASE CONDUCTOR. DO NOT SHARE NEUTRAL WIRES.

NEW LIGHTING PLAN NOTES

- 1 DRILL THROUGH CONCRETE WALL. PATCH AROUND CONDUIT PENETRATION.
- 2 PENDANT MOUNT LUMINAIRE +9'-0" AFF TO BOTTOM OF LUMINAIRE.
- 3 MOUNT UNDER CABINET.
- 4 MOUNT TIME CLOCK AND LIGHTING CONTACTOR ABOVE PANEL. SEE NIGHT LIGHT DIAGRAM ON SHEET E-502 FOR ADDITIONAL INFORMATION.
- 5 STEM MOUNT CEILING OCCUPANCY SENSOR +9'-0" AFF.
- 6 STEM MOUNT EXIT SIGN +9'-0" AFF.
- 7 CONDUITS PENETRATIONS THROUGH 1-HOUR RATED WALL SHALL BE FIRESTOPPED WITH APPROVED UL LISTED FIRESTOPPING MATERIAL. SEE CONDUIT PENETRATION OF FIRE WALL DETAIL ON SHEET E-502.
- 8 WALL MOUNT LUMINAIRE AT +7'-0" AFF FROM TOP OF LUMINAIRE HOUSING.

	REVISION NO.	SYM.		DESCRIPTION	I	SHT./OF	DATE	APPROVED		
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	LICENSED PROFESSIONAL ENGINEER		HAWAII DISTRICT LAND OFFICE HILO, HAWAI`I							
	IV.	No. 11670-E			NEW LIGHTING PLAN					
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	т	IIS LICENSE EXPI	RES APRIL 30, 2024	DESIGNED: JN		SUBMITTE	D: At	A		
			R_	DRAWN: CAD		DATE: NOV	/EMBER 2022			
	THIS WORK W		ATURE	CHECKED: JN		SCALE: AS	NOTED			
)RTH	SUPERVISION WILL BE UND CONSTRUCTION	AND CONST ER MY OBSE N AS DEFINE	RUCTION OF THIS PROJECT RVATION. (OBSERVATION OF D IN CHAPTER 16-115 OF	APPROVED:	Carty Chang		DR/	AWING NO.		
	THE HAWAII A COMMERCE PROFESSIONA AND LANDSC	INIS WORK WAS PREPARED BINE OR UNDER WI SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).			E-signed 2022-11-28 04:17PM HST carty.s.chang@hawaii.gov State of Hawaii E-30			-301		
		JOB N	IO. E00BH30A		Chief Engineer SHEET NO. 69	OF	77 SHE	ETS		



GENERAL POWER & SIGNAL NOTE

1. INSTALL SEPARATE NEUTRAL CONDUCTOR WITH EACH PHASE CONDUCTOR. DO NOT SHARE NEUTRAL WIRES.

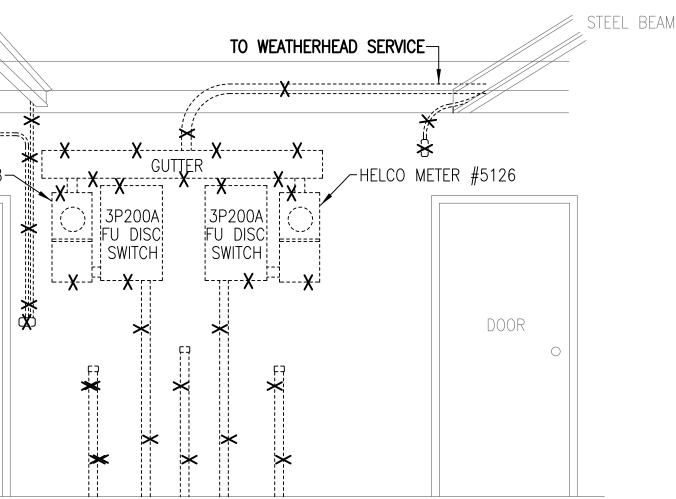
NEW POWER & SIGNAL NOTES

- 1 1"C WITH TWO CAT6 CABLES TO TELECOMMUNICATION EQUIPMENT RACK. REFER TO TELECOMMUNICATION DETAILS ON SHEET E-501 FOR ADDITIONAL REQUIREMENTS.
- 2 SAWCUT EXISTING CONCRETE SLAB. INSTALL ONE 3/4"C FOR POWER AND ONE 1"C WITH PULLSTRING FOR DATA CONDUIT. PATCH CONCRETE TO BE LEVEL WITH EXISTING FLOOR.
- TELECOMMUNICATION BACKBOARD. FIELD COORDINATE EXACT BACKBOARD 3 SIZE AND LOCATION WITH DLNR IT DEPARTMENT PRIOR TO START OF WORK. MOUNT QUAD RECEPTACLE AT BOTTOM OF BACKBOARD.
- PROVIDE 1"C WITH TWO CAT 6 CABLES FROM EACH TELECOM OUTLET. RUN 4 CONDUIT INSIDE LOW HEIGHT WALL UP TO FULL HEIGHT WALL TO TELECOMMUNICATION EQUIPMENT RACK. PAINT EXPOSED CONDUITS TO MATCH OPEN CEILING COLOR. REFER TO TELECOMMUNICATION DETAILS ON SHEET E-501 FOR ADDITIONAL REQUIREMENTS.
- 5 INTERLOCK EXHAUST FAN WITH LIGHT SWITCH. CONNECT TO LIGHTING BRANCH CIRCUIT WITHIN BATHROOM.
- 6 ELECTRONIC GATE CONTROLLER. FIELD COORDINATE CONNECTION REQUIREMENTS WITH GATE INSTALLER PRIOR TO START OF WORK.
- 7 CONDUITS PENETRATIONS THROUGH 1-HOUR RATED WALL SHALL BE FIRESTOPPED WITH APPROVED UL LISTED FIRESTOPPING MATERIAL. SEE CONDUIT PENETRATION OF FIRE WALL DETAIL ON SHEET E-502.
- 8 3P30A N.F. DISCONNECT SWITCH. NEMA 4X STAINLESS STEEL.
- 9 3P60A N.F. DISCONNECT SWITCH. NEMA 4X STAINLESS STEEL.
- 10 1P30A N.F. DISCONNECT SWITCH. NEMA 4X STAINLESS STEEL.

	REVISION SYM.	DESCRIPTION		SHT./OF	DATE	APPROVED			
	M. NOME	DEPARTMEI	STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION						
	LICENSED PROFESSIONAL ENGINEER	F	HAWAII DISTRICT LAND OFFICE HILO, HAWAI'I						
	No. 11670-E	NEW POWER AND SIGNAL PLAN							
	THIS LICENSE EXPIRES APRIL 30, 2024	DESIGNED: JN		SUBMITTE	D: At	A			
	C/2	DRAWN: CAD		DATE: NOV	/EMBER 2022				
	SIGNITURE	CHECKED: JN		SCALE: AS	NOTED				
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	CONSTRUCTION AS DEFINED IN CHAPTER 16-115 OF THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).	CHIEF ENGINEER	E-signed 2022-11-28 carty.s.chang@hawa State of Hawaii	hawaii.gov 🔍 🖉 🗌		-302			
	JOB NO. E00BH30A	S	Chief Engineer HEET NO. 70	OF	77 SHI	EETS			

STEEL BEAM	
ROOF	//
¥¥ ↓ ★ HELCO METER #137808	
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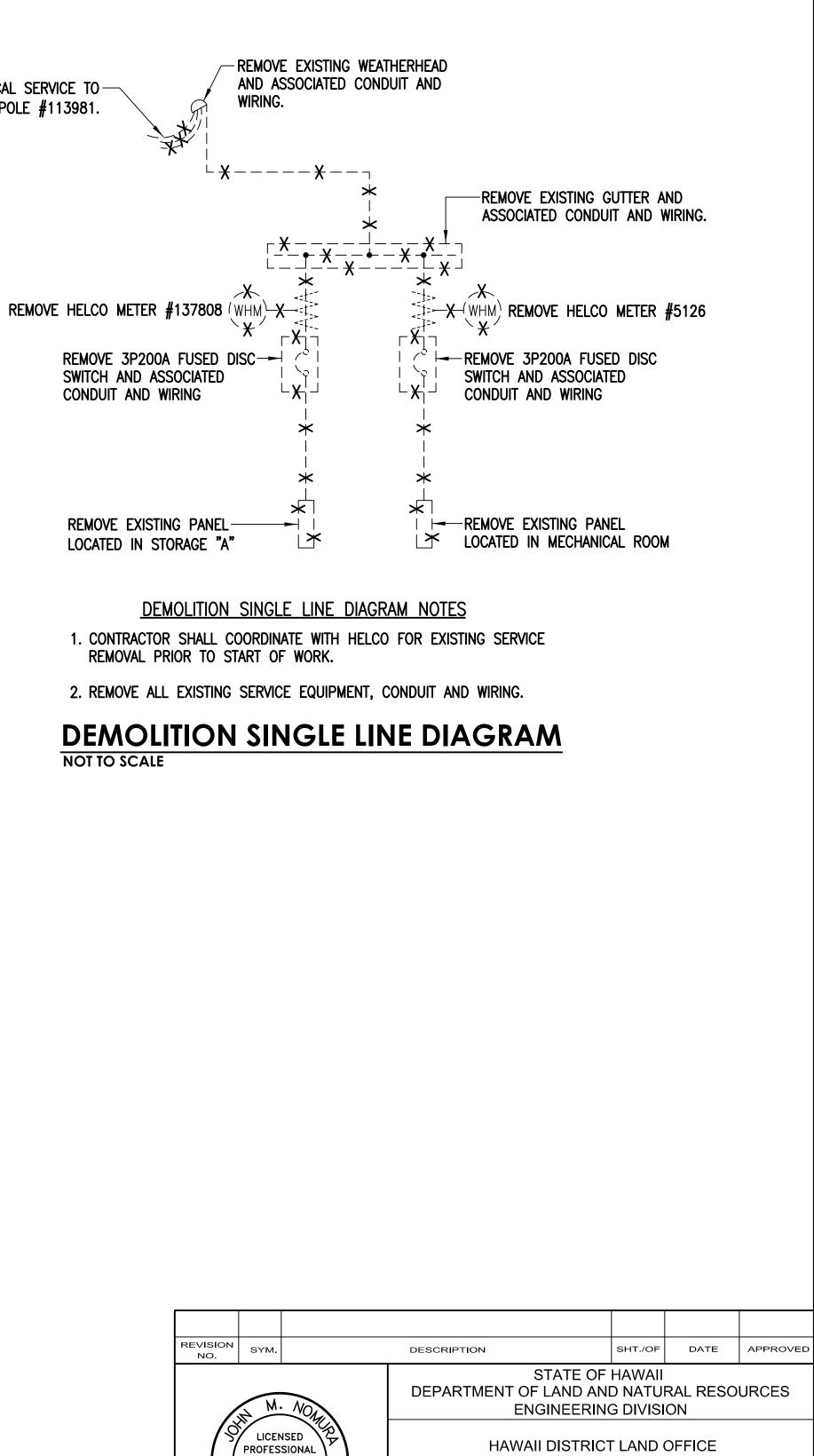
REMOVE ELECTRICAL SERVICE TO-EXISTING HELCO POLE #113981.

EXISTING SERVICE EQUIPMENT NOTES

1. REMOVE ALL EXISTING ELECTRICAL SERVICE EQUIPMENT, CONDUIT AND WIRING. COORDINATE WITH HELCO FOR METER REMOVAL PRIOR TO START OF WORK. 2. CUT EXISTING CONDUITS GOING UNDER GROUND AND REMOVE WIRING. PATCH SIDEWALK TO BE LEVEL AND MATCH CONCRETE SURFACE.

3. PATCH EXISTING CMU WALL WHERE APPARATUS EQUIPMENT AND CONDUITS ARE REMOVED. PATCH TO MATCH EXISTING SURFACE.

EXISTING SERVICE EQUIPMENT DEMOLTION DETAIL

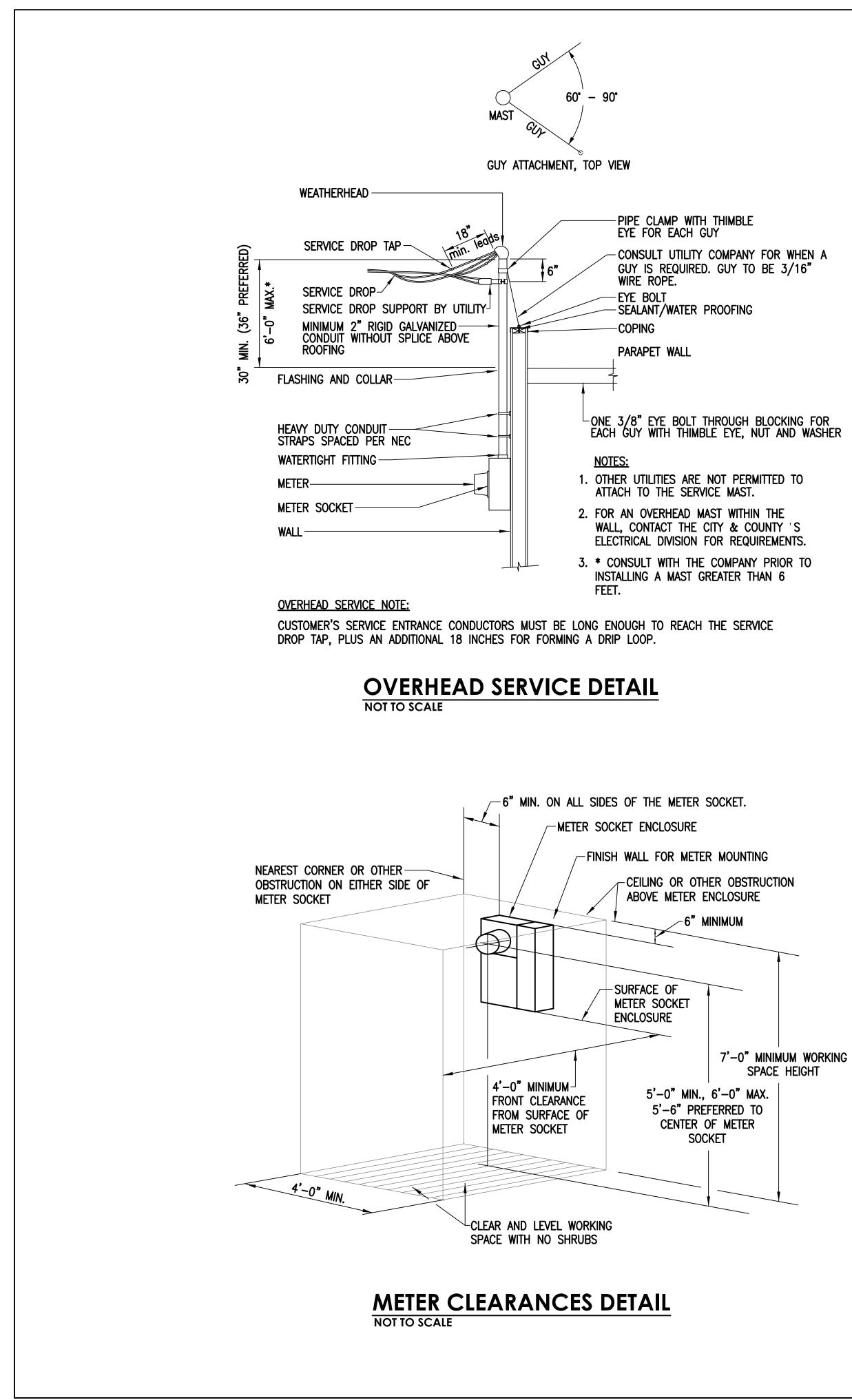


HAWAII DISTRICT LAND OFFICE	
HILO, HAWAI`I	

EXISTING SERVICE EQUIPMENT DEMOLITION DETAIL, DEMOLITION SINGLE LINE DIAGRAM

THIS LICENSE EXPIRES APRIL 30, 2024	DESIGNED: JN		SUBMITTED): D	t d
Gille	DRAWN: CAD	DATE: NOVEMBER 2022			
SIGNATURE THIS WORK WAS PREPARED BY ME OR UNDER MY	CHECKED: JN	_	SCALE: AS NOTED		
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THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).		E-signed 2022-11-2 carty.s.chang@hav			E-401
AND DANDSOARE ANOTHEORY.	CHIEF ENGINEER	State of Hawaii	× l		
JOB NO. E00BH30A	S	Chief Engineer	71 OF	77	SHEETS

ENGINEER **∖**No. 11670-E**/≫**



	CUSTOMER'S SERVICE ENTRANCE CONDUCTORS CONNECT TO UTILITY'S CONDUCTORS
	CUSTOMER'S SERVICE ENTRANCE CONDUCTORS
Ε	ATTACHMENT AT BUILDING.
Y FOR WHEN A O BE 3/16"	COMMERCIAL INDUSTRIAL PREMISES
3	AREA ACCESSIBLE TO PEDESTRIAN ONLY
	PRIVATE DRIVEWAYS OR AREAS OPEN TO VEHICULAR TRAFFIC
BLOCKING FOR	SERVICE DROP CLEARANC
NUT AND WASHER	1. THE RADIAL CLEARANCE I CONDUCTORS SHALL BE EITHER SERVICE DROP, T
r. Iin The County 'S Iuirements.	2. THE MINIMUM VERTICAL O PEOPLE CAN WALK, IS 8

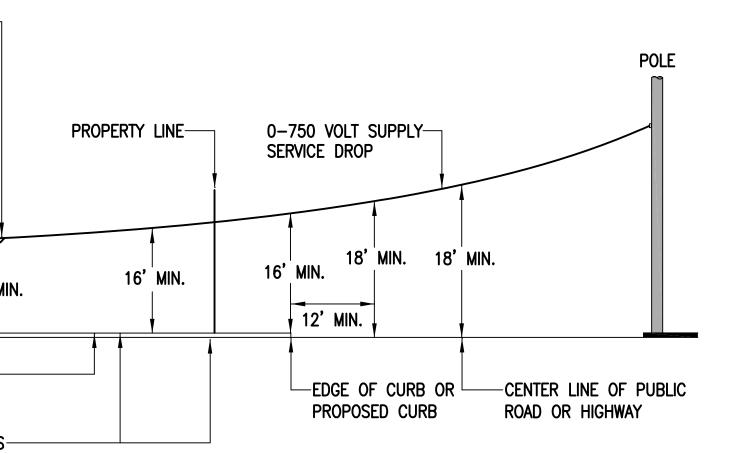
TO EXISTING HELCO POLE #113981 (SPLCE BY HELCO)

CLEARANCES AROUND METERING EQUIPMENT NOTES

THE FOLLOWING CLEARANCES SHALL BE PROVIDED AROUND ALL METERING EQUIPMENT:

- 1. EQUIPMENT CLEARANCE OF SIX INCHES AROUND METERING EQUIPMENT (ABOVE, BELOW, AND TO THE SIDES). THIS CLEARANCE SHALL BE MAINTAINED FROM ANY CORNER, DOOR, ENTRYWAY, WINDOW, OBSTRUCTION, OR TO ANY LOAD SIDE EQUIPMENT.
- 2. FRONTAL WORKING CLEARANCE OF 4 FEET BY 4 FEET BY 7 FEET. WHERE THE TOTAL WIDTH OF THE METERING INSTALLATION IS GREATER THAN 4 FEET, THIS CLEARANCE SHALL BE WIDENED ACCORDINGLY. THIS WORKING CLEARANCE SHALL BE LEVEL AND CLEAR TO ALLOW FOR THE USE OF A LADDER. IN ADDITION, THIS WORKING CLEARANCE SHALL BE KEPT FREE FROM ANY OBSTRUCTIONS SUCH AS WALLS, FENCES, TREES, HEDGES, OTHER STRUCTURES, AND EQUIPMENT.

NEW COMBINATION 200A, 208/120V, 30-METER/MAIN 7-JAW METER SOCKET WITH TEST BY-PASS FACILITIES AND 3P200A MAIN BREAKER



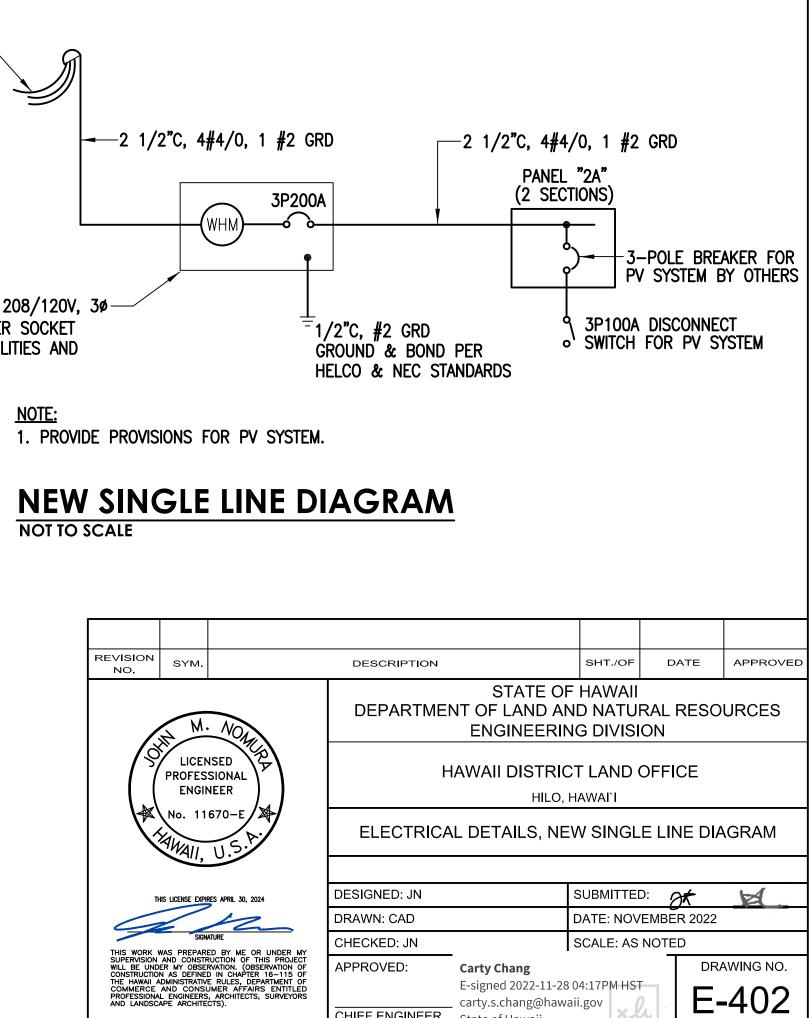
CES NOTES:

BETWEEN SUPPLY SERVICE DROP CONDUCTORS AND COMMUNICATION SERVICE DROP NOT LESS THAN 24 INCHES. WHERE WITHIN 15 FEET OF THE POINT OF ATTACHMENT OF THIS CLEARANCE MAY BE REDUCED TO 12 INCHES.

CLEARANCE ABOVE BRIDGES. FENCES. WALLS OR OTHER STRUCTURES UPON WHICH FEET. FOR VERTICAL CLEARANCE ABOVE BUILDINGS, SEE NESC.

SERVICE DROP CLEARANCES DETAIL





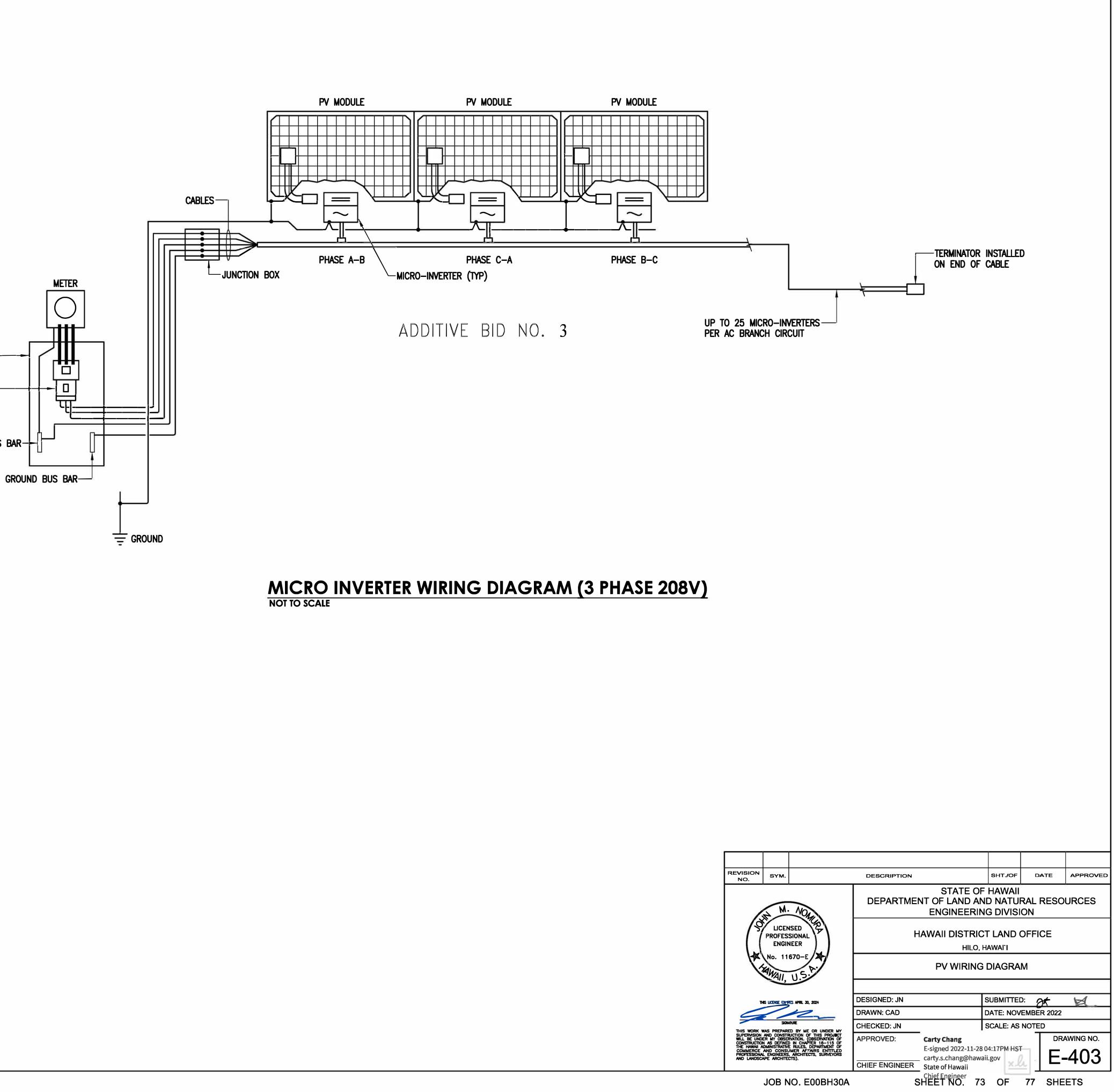
carty.s.chang@hawaii.gov

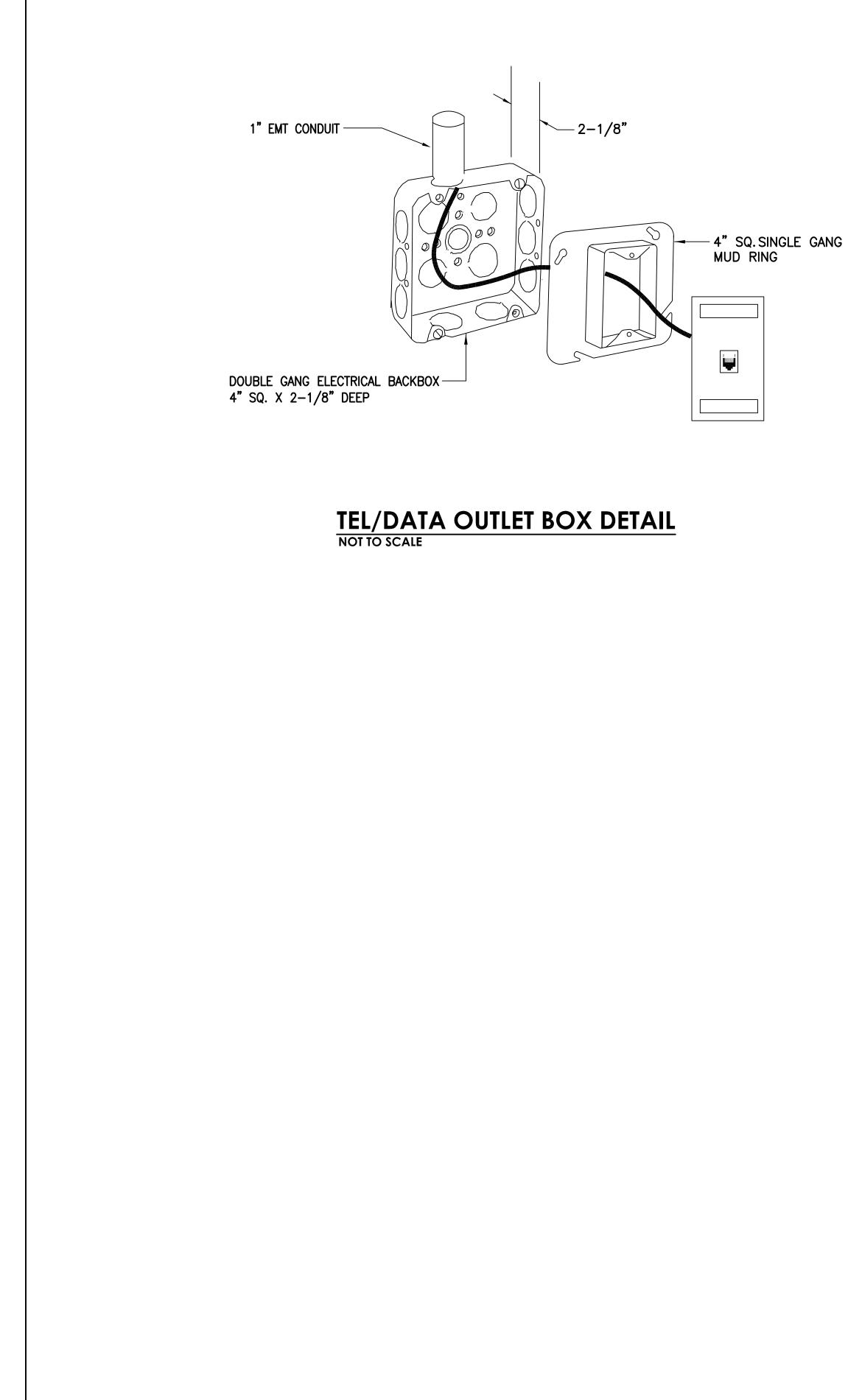
Chief Engineer SHEET NO. 72 OF 77 SHEETS

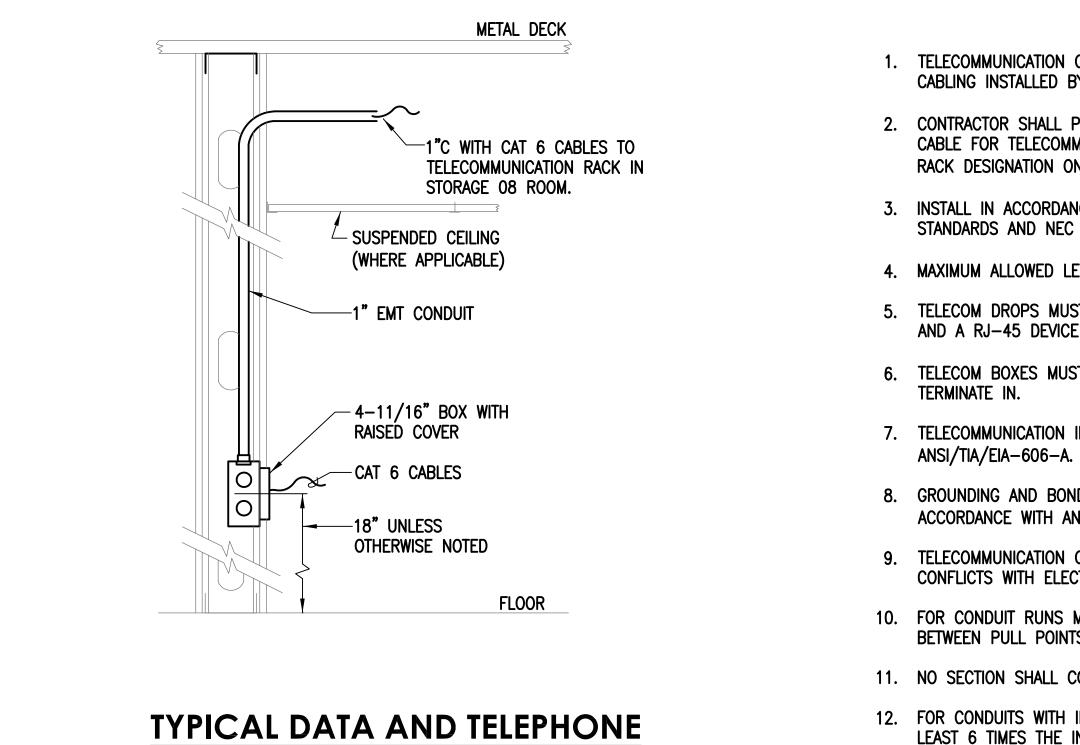
CHIEF ENGINEER State of Hawaii

JOB NO. E00BH30A

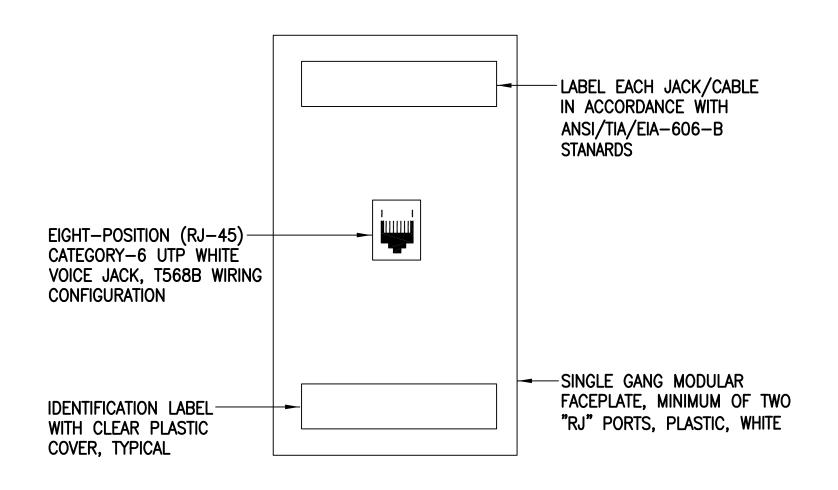
PANEL	
3—POLE 20 AMP CIRCUIT ——— BREAKER PER BRANCH CIRCUIT	
NEUTRAL BUS BAR-	













NOT TO SCALE

GENERAL TELECOMMUNICATION NOTES

TELECOMMUNICATION CABLING AND CONDUITS SHALL BE SUPPLIED BY ELECTRICAL CONTRACTOR AND CABLING INSTALLED BY A CERTIFIED NETWORK CABLE INSTALLER.

2. CONTRACTOR SHALL PROVIDE AND INSTALL TWO CAT 6 CABLES PER TELEPHONE/DATA OUTLET. CAT 6 CABLE FOR TELECOMMUNICATIONS CABLING SHALL BE ROUTED TO TELECOMMUNICATIONS EQUIPMENT RACK DESIGNATION ON DRAWING AND TERMINATED IN PATCH PANEL(S).

3. INSTALL IN ACCORDANCE WITH ANSI/TIA/EAI-568-C1, ANSI/TIA/EIA-568-C.2, ANSI/TIA/EIA-569-B STANDARDS AND NEC 2017 ARTICLE 800 REQUIREMENTS.

4. MAXIMUM ALLOWED LENGTH OF CAT 6 CABLE IS 328 FEET WHEN USED FOR 10/100/1000BASE-T.

5. TELECOM DROPS MUST TERMINATE IN A UTP PATCH PANEL LOCATED IN RACK ON THE NETWORK END AND A RJ-45 DEVICE END.

6. TELECOM BOXES MUST BE LABELED WITH THE PATCH PANEL NAME/NUMBER FROM THE PATCH PANEL IT

7. TELECOMMUNICATION INFRASTRUCTURE SHALL BE LABELED AND IDENTIFIED IN ACCORDANCE WITH

8. GROUNDING AND BONDING FOR INTERIOR TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA-607 AND NEC 2017 GROUNDING REQUIREMENS.

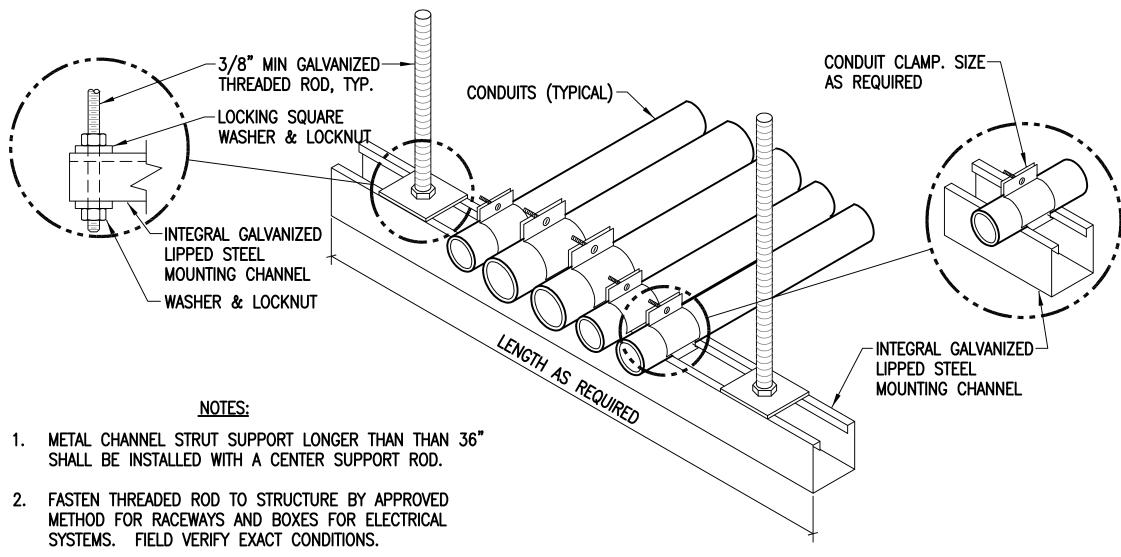
9. TELECOMMUNICATION CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO AVOID CONFLICTS WITH ELECTRICAL, MECHANICAL, PLUMBING, AND ARCHITECTURAL ELEMENTS OF THIS PROJECT.

10. FOR CONDUIT RUNS MORE THAN 100 FEET, PULL BOXES SHALL BE PROVIDED SO THAT NO SEGMENT BETWEEN PULL POINTS EXCEED THE 100 FOOT LIMIT.

11. NO SECTION SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS.

12. FOR CONDUITS WITH INTERNAL DIAMETER OF 2 INCHES OR LESS, INSIDE BEND RADIUS SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER.

REVISION NO. SYM.	DESCRIPTION		SHT./OF	DATE	APPROVED		
M. NO	DEPARTMEN	STATE OF IT OF LAND AN ENGINEERIN	D NATU	RAL RESO	URCES		
M. NOL LICENSED PROFESSIONAL ENGINEER	HAWAII DISTRICT LAND OFFICE						
No. 11670-E	TELECOMMUNICATION DETAILS						
,							
THIS LICENSE EXPIRES APRIL 30, 2024	DESIGNED: JN	S	SUBMITTEI	D: At	A		
an	DRAWN: CAD	C	DATE: NOV	'EMBER 2022			
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		State of Hawaii	xy xy	<u>u</u>			
JOB NO. E00BH30A	SH	Chief Engineer	OF		ETS		





1 1-HOUR FIRE RATED GYPSUM WALLBOARD.

2 A MAXIMUM OF ONE CONDUIT IS PERMITTED IN THE FIRE STOP SYSTEM. CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3 CAULK FILL MATERIAL BEARING THE UL CLASSIFICATION MARKING INSTALLED TO COMPLETELY FILL OPEN SPACE BETWEEN CONDUIT AND GYPSUM WALLBOARD. PROVIDE A MINIMUM OF 1/2" DIAMETER BEAD OF RED CAULK APPLIED TO PERIMETER OF CONDUIT AT ITS EGRESS FROM THE WALL. INSTALL CAULK SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY RATING IS OF THE FIRE STOP SYSTEM IS DEPENDANT UPON THE TYPE & SIZE OF CONDUIT.



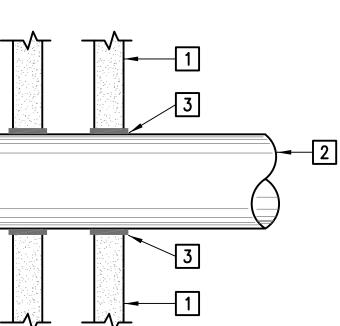
TO BREAKER IN ELECTRICAL PANEL

MOUNT DISCONNECT SWITCH -+5'-0" AFF. MAINTAIN 3' FRONTAL CLEARANCE OF DISCONNECT SWITCH.

1" RIGID GALVANIZED STEEL CONDUIT

1" SEAL-TITE FLEXIBLE-CONDUIT

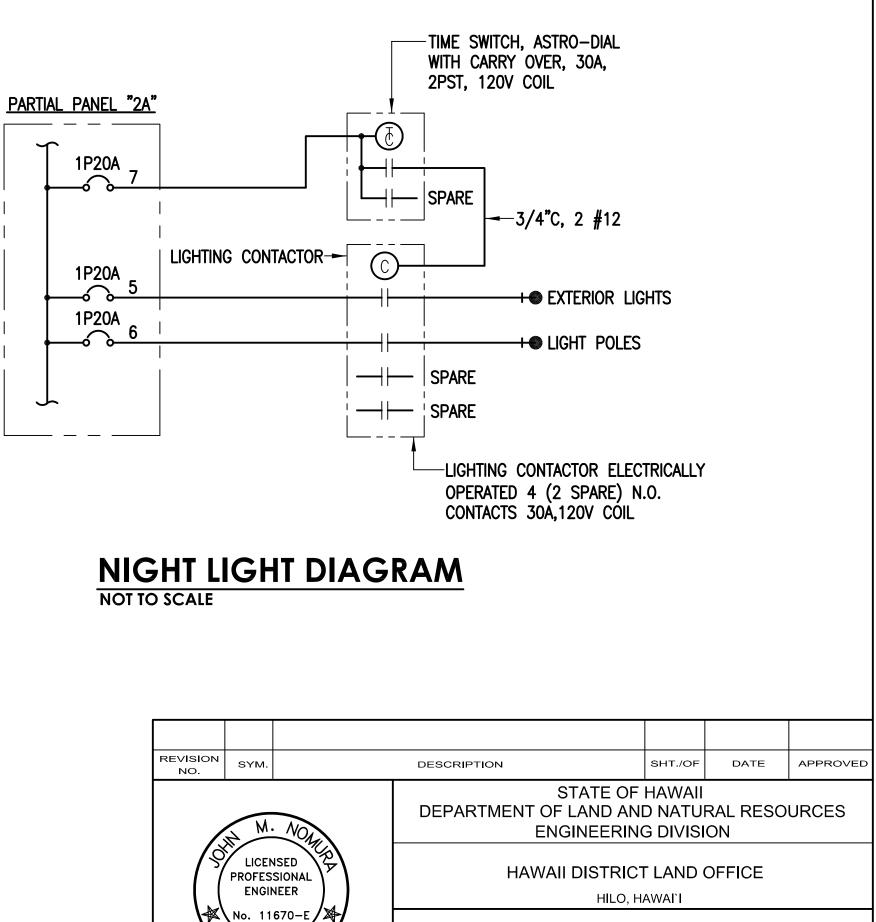
CONDUIT TRAPEZE MOUNTING DETAIL

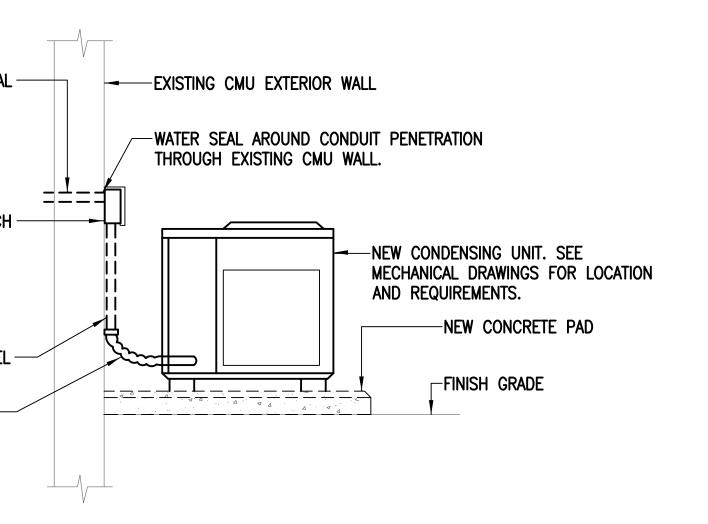


NOTES:

CONDUIT PENETRATION OF FIRE WALL DETAIL

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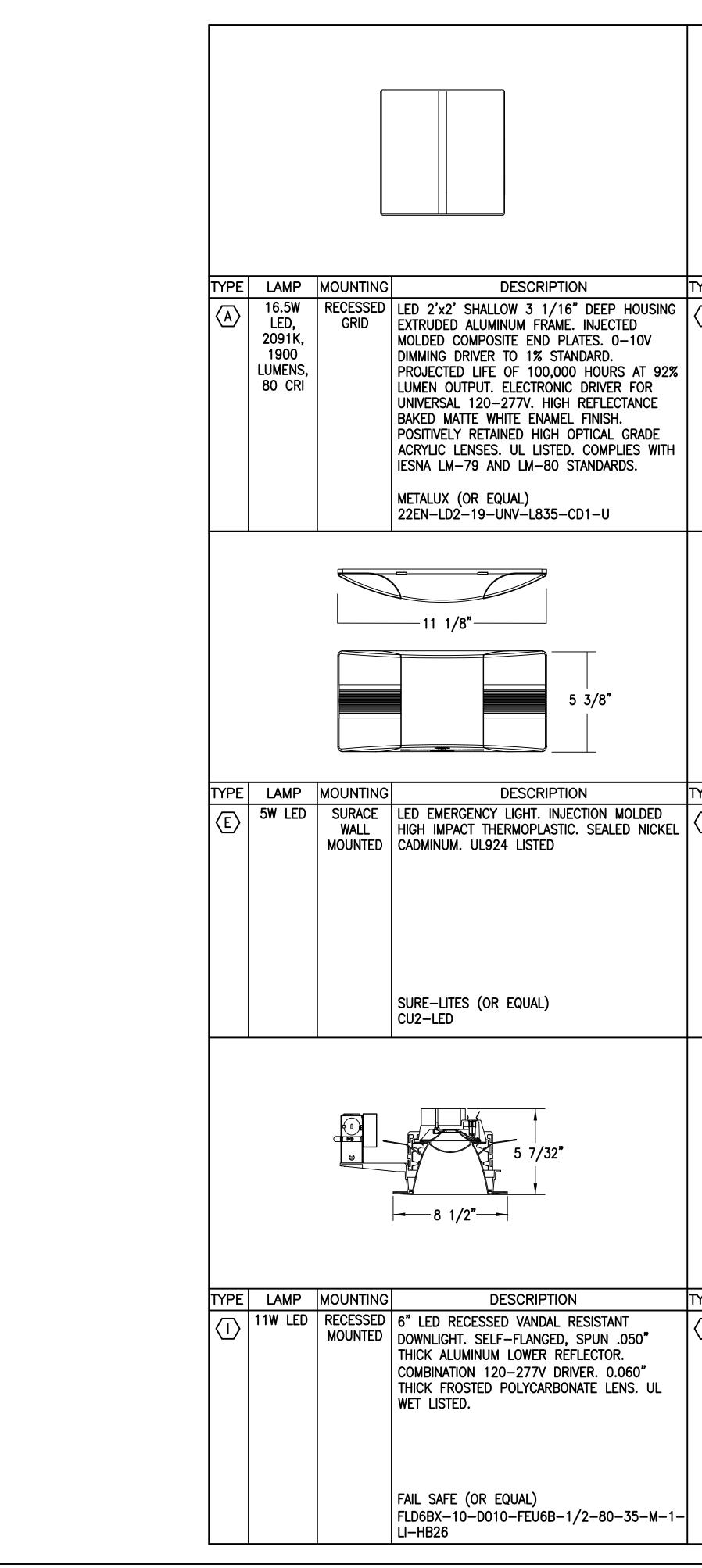




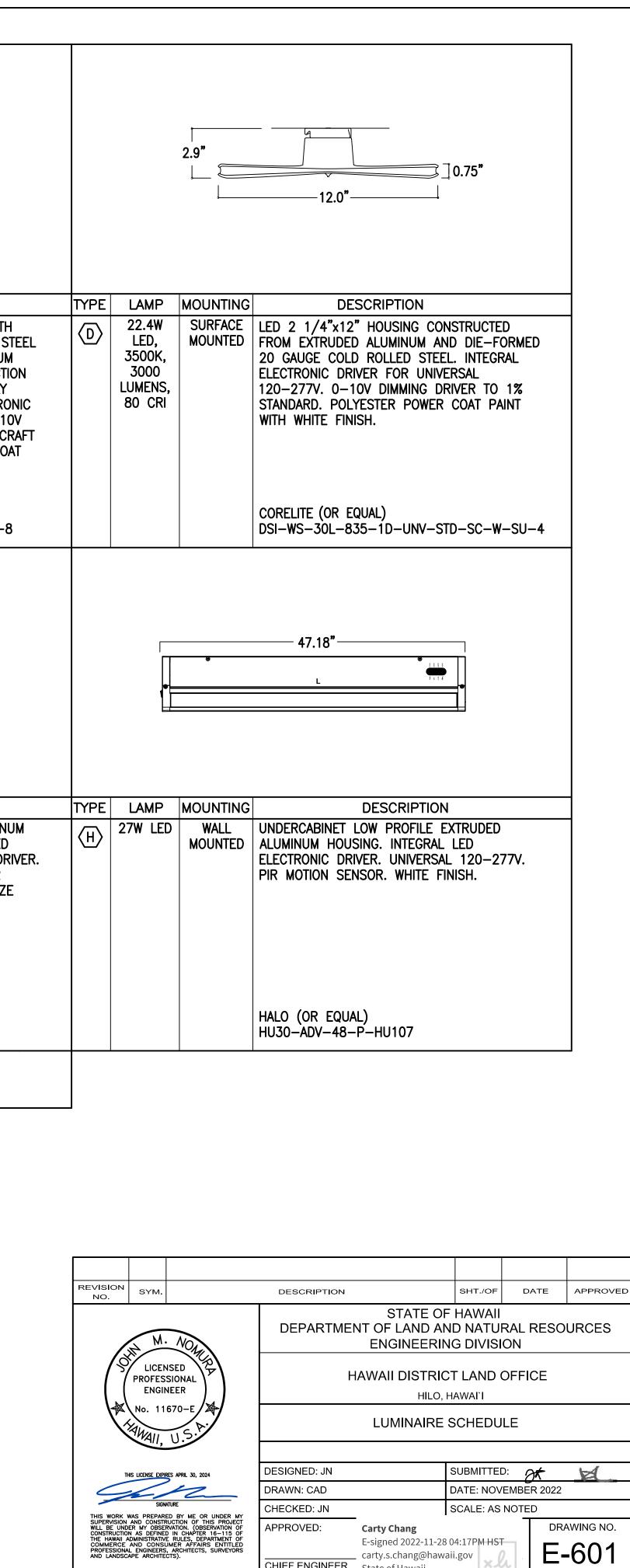
OUTDOOR A/C CONDENSING UNIT DETAIL

ELECTRICAL DETAILS

THIS LICENSE EXPIRES APRIL 30, 2024	DESIGNED: JN		SUBMITTED:				
	DRAWN: CAD		DATE: NOVEMBE	R 2022			
SIGNATURE THIS WORK WAS PREPARED BY ME OR UNDER MY	CHECKED: JN	_	SCALE: AS NOTED				
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THE HAWAII ADMINISTRATIVE RULES, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS ENTITLED PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS).		E-signed 2022-11-2 carty.s.chang@haw		E-502			
	CHIEF ENGINEER	State of Hawaii	× lu				
JOB NO. E00BH30A	S	Chief Engineer	75 OF 77	SHEETS			



			3.5" 				3.5"
	1	<u></u>			–		
	LAMP 35.0W LED, 3500K, 3400 LUMENS, 80 CRI	MOUNTING PENDANT MOUNTED	LED COMPACT 3.5"x6.4"x4' PROFILE WITH DIE-FORMED 20 GUAGE COLD ROLLED STEEL UPPER CHANNEL. DIE-FORMED ALUMINUM LOWER HOUSING. END CAPS ARE INJECTION MOLDED POLYCARBONATE, MECHANICALLY ATTACHED WITH NO FASTENERS. ELECTRONIC DRIVER FOR UNIVERSAL 120-277V. 0-10V DIMMING DRIVER TO 1% STANDARD. AIRCRAFT CABLE MOUNTS. POLYESTER POWDER COAT PAINT WITH WHITE FINISH.	TYPE C	LAMP 70.0W LED, 3500K, 3400 LUMENS, 80 CRI	MOUNTING PENDANT MOUNTED	LED COMPACT 3.5"x6.4"x8' PROFILE WITH DIE-FORMED 20 GUAGE COLD ROLLED STI UPPER CHANNEL. DIE-FORMED ALUMINUM LOWER HOUSING. END CAPS ARE INJECTIO MOLDED POLYCARBONATE, MECHANICALLY ATTACHED WITH NO FASTENERS. ELECTRON DRIVER FOR UNIVERSAL 120-277V. 0-10V DIMMING DRIVER TO 1% STANDARD. AIRCR/ CABLE MOUNTS. POLYESTER POWDER COA PAINT WITH WHITE FINISH.
			RZL-NL-40L-835-1-UNV-STD-W-PP-4				RZL-NL-40L-835-1-UNV-STD-W-PP-8
			5 7/8" 				
TYPE		MOUNTING		TYPE		MOUNTING	
F	5W LED	PENDANT MOUNTED	FIBERGLASS HOUSING WITH REINFORCED POLYESTER AND SELF-EXTINGUISHING PLASTIC. ELECTRONIC DRIVER WITH UNIVERSAL 120-277V. 0-10V DIMMING CONTROL. HIGH IMPACT DIFFUSER LENS METALUX (OR EQUAL) 4VT2-LD5-4-DR-UNV-L835-CD1-WL-U- VT2-CHAIN/SET-U-VT2-SS-MBK	G	27W LED	SURFACE WALL MOUNTED	LOW PROFILE RUGGED DIE-CAST ALUMINU HOUSING. SILICONE SEALED OPTICAL LED CHAMBER. INTEGRAL LED ELECTRONIC DRIN UNIVERSAL 120-277V. TGIC POLYESTER POWDER COAT PAINT IN CARBON BRONZE FINISH.
			· · · · · · · · · · · · · · · · · · ·				
			EXIT,		44W LED		LUMARK (OR EQUAL) AXCS4A-W-BK
TYPE	LAMP 1.02W LED	MOUNTING SURFACE/ CEILING					
			SURE LITES (OR EQUAL) LPX–7				



JOB NO. E00BH30A

CHIEF ENGINEER State of Hawaii Chief Engineer SHEET NO. 76 OF 77 SHEETS

PANEL "2A" (SECTION	ON 1)
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3P200A MAIN BREAKER

IRCUIT	BREAKER	LOAD		KVA		w
NO.	BREAKER		ØA	ØB	ØC	
1	1P20A	LTS – OPEN OFFICE, HALLWAYS	1.0			1
2	1P20A	LTS - CONFERENCE ROOM, OFFICES	1.0			1
3	1P20A	LTS – BREAK ROOM, OFFICES		1.0		1
4	1P20A	LTS – SECURED STORAGE		1.0		1
5	1P20A	LTS – EXTERIOR BUILDING			1.0	1
6	1P20A	LTS – EXTERIOR POLE LIGHTS			1.0	1
7	1P20A	TIME CLOCK	0.1			1
8	1P20A	SPARE				
9	1P20A	RECEP – STORAGE		0.4		1
10	1P20A	RECEP – MANAGER'S OFFICE		1.0		1
11	1P20A	RECEP – IT RACK			0.4	1
12	1P20A	RECEP – LAND AGENT 1			0.8	1
13	1P20A	RECEP – RESTROOMS, EXTERIOR	0.6			1
14	1P20A	RECEP - LAND AGENT 2	1.0			
15	1P20A	RECEP – BREAK ROOM REFRIGERATOR		1.2		
16	1P20A	RECEP – LAND AGENT 3		0.8		
17	1P20A	RECEP – BREAK ROOM			0.4	
18	1P20A	RECEP – OPEN OFFICE WORKSTATIONS			0.8	
19	1P20A	RECEP – EXTERIOR	0.4		0.0	
20	1P20A	RECEP – OPEN OFFICE WORKSTATIONS	0.4			-
20	1P20A	RECEP - BREAK ROOM COUNTER	0.0	0.2		-
	ł	RECEP - BREAK ROOM COUNTER RECEP - OPEN OFFICE WORKSTATIONS				
22	1P20A			0.6		
23	1P20A	RECEP - BREAK ROOM COUNTER			0.2	
24	1P20A	RECEP - OPEN OFFICE PRINTER			1.0	
25	1P20A	RECEP - BREAK ROOM COUNTER	0.2			
26	1P20A	RECEP – SECURED STORAGE	1.0			
27	1P20A	RECEP – HALLWAYS		0.8		
28	1P20A	RECEP – SECURED STORAGE FILE MOVER		1.0		
29	1P20A	RECEP – COPY AREA COUNTER			0.4	Ľ
30	1P20A	ELECTRONIC GATE CONTROLLER			1.0	
31	1P20A	RECEP – COPY AREA COPIER MACHINE	1.2			Ľ
32	1P20A	SPARE				
33	1P20A	RECEP - CONFERENCE ROOM COUNTER		0.4		Ľ
34	1P20A	RECEP – EXTERIOR		0.4		·
35	1P20A	RECEP- CONFERENCE ROOM			0.8	<u> </u>
36	1P20A	SPARE				
37	1P20A	RECEP - CONFERENCE ROOM	0.4			·
38	1P20A	SPARE				
39	1P20A	SPARE				
40	1P20A	SPARE				
41	1P20A	SPARE				İ
42	1P20A	SPARE				l
		•		 	l	+

208 / 120 VOLTS 3 Ø 4WSN FLUSH MOUNTED

BREAKER MIN. I.C. 18,000 A.I.C.

20" WIDE CABINET, INDUSTRIAL BOLTED, HALF WIDTH BREAKERS NOT PERMITTED

PANEL	ZA	(SECTION	Z)	

PANEL "2A" (SECTION 2) 208 / 120 VOLTS 3 Ø 4WSN FLUSH MOUNTED

3P225A MAIN LUGS ONLY BREAKER MIN. I.C. 18,000 A.I.C.

20" WIDE CABINET, INDUSTRIAL BOLTED, HALF WIDTH BREAKERS NOT PERMITTED

	BREAKER	LOAD	A A	KVA 4D	40	WIR
NO. 43,45	2P15A	FCU-1	ØA 0.1	ØB 0.1	ØC	12
44,46	2P15A	FCU-2	0.1	0.1		12
	21 10/1		0.1	0.1		
47,49	2P15A	FCU-3		0.1	0.1	12
48,50	2P15A	FCU-4		0.1	0.1	12
51,53	2P15A	FCU-5	0.1	0.1		12
52,54	2P15A	FCU-6	0.1	0.1		12
55,57	2P15A	FCU-7	0.1	0.1		12
56,58	2P15A	FCU-8	0.2	0.2		12
	21 10/1					
59,61	2P15A	FCU-9		0.4	0.4	12
60,62	2P15A	FCU-10		0.2	0.2	12
64,66	2P30A	EWH–1 TANKLESS WATER HEATER		3.0	3.0	10
63,65,67		ACCU-1 (MODULE 1)	5.0	5.0	5.0	6
, , 66.68.70		ACCU-2 (MODULE 2)	2.9	2.9	2.9	8
69	1P20A	SPARE				
71	1P20A	SPARE				
72	1P20A	SPARE				
73	1P20A	SPARE				
74	1P20A	SPARE				
75	1P20A	SPARE				
76	1P20A	SPARE				
77	1P20A	SPARE				
78	1P20A	SPARE				ļ
79	1P20A	SPARE				
81	1P	PFB				
80,82,84		PROVISION FOR PV SYSTEM BY OTHERS				
83	1P	PFB				
		TOTALS:	16.3	20.2	20.3	
Recept Rest Lightin Larges Other Air Co	9 50% Ng load 9 St motor Motors 9 Nditioner:	00 VA 0 100% 10,000 VA 0 10,000 7,200 VA 0 10,000 3,600 7,200 VA 0 100% 3,600 3,600 3,600 3,600 125% 7,500 VA 0 125% 9,375 9,375 0 125% 0 VA 0 125% 0 0 125% 0 VA 0 125% 0 0 100% 0 VA 0 125% 0 0 100% 0 VA 0 125% 0 0 VA 0 100% 0 0 0 5 0 100% 26,700 VA 0 100% 26,700	 VA VA VA VA VA VA VA VA 			
KITCHE	IN EQUIPME		O VA O VA			

TOTAL LOAD: (VA) / $(208V \times 1.732) = 157.7$ AMPS

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			V	No. 116				Ρ	ANEL SC	HEDULE	S	
							DESIGNED: JN			SUBMITTE); ~*	H-4
			4	THIS LICENSE EXPIRES	12		DRAWN: CAD			DATE: NOV	EMBER 2022	
			THIS WORK SUPERVISION WILL BE UN CONSTRUCTI		JRE D BY ME OR UNDER (CTION OF THIS PROJ (ATION. (OBSERVATION IN CHAPTER 16-115 RULES, DEPARTMENT JER AFFAIRS ENTITI ARCHITECTS, SURVEY (S).	MY JECT N OF 5 OF	CHECKED: JN APPROVED:	Carty		SCALE: AS	DF	RAWING NO.
			THE HAWAII COMMERCE PROFESSION AND LANDS	ADMINISTRATIVE AND CONSUM IAL ENGINEERS, / CAPE ARCHITECT	RULES, DEPARTMENT IER AFFAIRS ENTITI ARCHITECTS, SURVEY S).	t of Fled Yors	CHIEF ENGINEI	E-signe carty.s	ed 2022-11-28 .chang@hawa		2	-602
				JOB N(O. E00BH:			Chief E SHEET	of Hawaii Ingineer NO. 77			EETS