

# **DEPARTMENT OF WATER COUNTY OF KAUA'I JOB NO. 18-03, WP2020 PROJECT NO. PLH-27 KŪHIŌ HIGHWAY** (HARDY-OXFORD) **18" MAIN REPLACEMENT** LĪHU'E WATER SYSTEM

## LOCATED AT: TMK: (4) 3-8-009 & 014, 3-6-005 & 006 LĪHU'E, KAUA'I, HAWAI'I

3-001CONSTRUCTION NOTES3-002CONSTRUCTION NOTES3-003CONSTRUCTION NOTES3-004GENERAL SITE PLAN3-005LĪHU'E WATER SYSTEM M3-005LĪHU'E WATER SYSTEM M3-010EROSION AND SEDIMENT2-101EROSION AND SEDIMENT2-102EROSION CONTROL NOT2-401PLAN AND PROFILE - KŪI2-402PLAN AND PROFILE - KŪI2-403PLAN AND PROFILE - KŪI2-404PLAN AND PROFILE - KŪI2-405LATERAL & DEMOLITION2-406LATERAL & DEMOLITION2-407LATERAL PROFILE - 12-408LATERAL PROFILE - 22-408LATERAL PROFILE - 32-409SCHEMATIC WATER CON2-410TRAFFIC CONTROL GENI2-411TRAFFIC CONTROL PLAN2-412TRAFFIC CONTROL PLAN2-413TRAFFIC CONTROL PLAN2-414TRAFFIC CONTROL PLAN2-415TRAFFIC CONTROL PLAN2-416TRAFFIC CONTROL PLAN2-417TRAFFIC CONTROL PLAN2-418TRAFFIC CONTROL PLAN2-420TRAFFIC CONTROL PLAN2-421TRAFFIC CONTROL PLAN2-422TRAFFIC CONTROL PLAN2-423TRAFFIC CONTROL PLAN2-424TRAFFIC CONTROL PLAN2-425TRAFFIC CONTROL PLAN2-426TRAFFIC CONTROL PLAN2-427TRAFFIC CONTROL PLAN2-428TRAFFIC CONTROL PLAN		DWG. NO.	DESCRIPTION
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#### **PREPARED BY:**



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Statistic department of transportation, kauai district (approval granules for work within state R.O.W. ONLY)         Date (approval granules for work within state R.O.W. ONLY)         Juit 2024         For HIGHWAYS ADMINISTRATOR STATE OEPARTMENT OF TRANSPORTATION, KAUAI DISTRICT (Approval granules for Work within State R.O.W. ONLY)         Inter Colspan="2">Date Columity ensincer, Department of Public Works COUNTY OF KAUAI FOR MANAGER AND CHIEF ENGINEER, DEPARtment OF WATER         Date County of KAUAI FOR PLANNING DIRECTOR COUNTY OF KAUAI         October 2, 20         FOR PLANNING DIRECTOR COUNTY OF KAUAI         Output for Work With IBLAND UTILITY COOPERATIVE         Date County of KAUAI         Juily 17, 2024         FOR KAUAI IBLAND UTILITY COOPERATIVE         Juily 17, 2024         FOR SPECTRUM         Juily 17, 2024         FOR SPECTRUM         Juily 17, 2024         FOR SPECTRUM         Juily 17, 2024         FOR COUNTY ENGINEER, DEPARTMENT OF WASTEWATER         Juily 17, 2024         FOR COUNTY ENGINEER, DEPARTMENT OF WASTEWATER         Juily 17, 2024         FOR COUNTY ENGINEER, DEPARTMENT OF WASTEWATER		APPROVALS					
FOR HIGHWAYS ADMINISTRATOR       DATE         STATE DEPARTMENT OF TRANSPORTATION, KAUAI DISTRICT (APPROVAL GRANTED FOR WORK WITHIN STATE R.O.W. ONLY)       DATE         Market Department of PWBLIC WORKS       DATE         COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS       DATE         Queen Argumeds       16/10/24         FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER       DATE         COUNTY OF KAUAI       October 2, 20         FOR PUANNING DIRECTOR       DATE         COUNTY OF KAUAI       October 2, 20         FOR KAUAI ISLAND UTILITY COOPERATIVE       DATE         Market Band UTILITY COOPERATIVE       DATE         Market Band UTILITY COOPERATIVE       DATE         Market Band       U1/10/24         FOR SPECTRUM       DATE         Market Band       DATE         Market Band       U1/10/24         FOR SPECTRUM       DATE         Market Band       DATE							
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POR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER     DATE       COUNTY OF KAUAI     October 2, 20       FOR PLANNING DIRECTOR     DATE       COUNTY OF KAUAI     DATE       Image: County of Kauai     B/19/24       FOR KAUAI ISLAND UTILITY COOPERATIVE     DATE       Image: County Engineer     DATE       Image: County Engineer, Department of WASTEWATER     DATE       Image: County Engineer, Department of WASTEWATER     DATE			DATE				
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FOR PLANNING DIRECTOR COUNTY OF KAUAI		FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER	DATE				
COUNTY OF KAUAI COUNTY OF KAUAI		Kaaina Hull	October 2, 2024				
FOR KAUA'I ISLAND UTILITY COOPERATIVE     DATE       Jump Jone     10/10/24       FOR MAWAIIAN TELCOM     DATE       July 17, 2024     July 17, 2024       FOR SPECTRUM     DATE       July 17, 2024     DATE       FOR SPECTRUM     DATE       JULY 17, 2024     DATE       JULY 17, 2024     DATE			DATE				
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July 17, 2024         FOR SPECTRUM         DATE         Margine         18/10/24         DRAWING NO.         POR COUNTY ENGINEER, DEPARTMENT OF WASTEWATER         DATE		FOR KAUA'I ISLAND UTILITY COOPERATIVE	DATE				
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DRAWING NO.     JULY 17, 2024       DRAWING NO.     JULY 17, 2024       DRAWING NO.     JULY 17, 2024       DRAWING NO.     18/10/24       DRAWING NO.     FOR COUNTY ENGINEER, DEPARTMENT OF WASTEWATER     DATE		FOR AAWAIIAN TELCOM	DATE				
FOR SPECTRUM     DATE       DRAWING NO.     FOR COUNTY ENGINEER, DEPARTMENT OF WASTEWATER     DATE       DRAWING NO.     FOR COUNTY OF KAUA'I     DATE		Hereard Joaner and	July 17, 2024				
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			DATE				
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N	OTES FOR GENERAL CONSTRUCTION	G	ENERAL
1.	ALL CONSTRUCTION WORK IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSIONS OF THE PUBLICATIONS "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLANS", AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, CITY AND COUNTY OF HONOLULU, AND THE COUNTIES OF KAUA'I, MAUI, AND HAWAI'I." THE STANDARD DETAILS ARE AVAILABLE AT THE COUNTY OF KAUA'I CLERK'S OFFICE.	20.	UPON COMPLETION DRAWINGS THAT RE OWNER'S LICENSED AS-BUILT DRAWINGS IN ACCORDANCE WI DEPARTMENT OF PL
2.	APPROVAL BY THE COUNTY MUST IN NO WAY RELIEVE THE DESIGN ENGINEER OF THEIR RESPONSIBILITIES AND PROFESSIONAL OBLIGATIONS. THEY MUST BE HELD RESPONSIBLE FOR THE ADEQUACY OF THE DESIGN AND ACCURACY AND COMPLETENESS OF THE PLANS AND SPECIFICATIONS. CHANGES OR REVISIONS TO CORRECT ANY DEFICIENCIES MUST BE MADE BY AND AT THE EXPENSE OF THE DESIGNER. SUCH CHANGES AND REVISIONS MUST REQUIRE APPROVAL BY THE COUNTY.	١٨	
5.	NO GRADING BETWEEN 7 P.M. TO 7 A.M. ON ANY GIVEN DAY OR ON SATURDAYS, SUNDAYS, AND HOLIDAYS		ATER CO
4.	WITHOUT WRITTEN PERMISSION FROM THE COUNTY ENGINEER AND THE STATE DEPARTMENT OF HEALTH. CONTRACTOR TO NOTIFY PUBLIC WORKS DEPARTMENT FIVE (5) BUSINESS DAYS PRIOR TO COMMENCING ANY GRADING WORK. WHEN COMPLETED AND READY FOR FINAL INSPECTION; NOTIFY PUBLIC WORKS DEPARTMENT INSPECTION SECTION.	1.	UNLESS OTHERWIS APPURTENANCES BY THE DEPARTME ADDITIONS.
5.	CONSTRUCTION PLANS ARE VALID FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL. IF CONSTRUCTION DOES NOT COMMENCE WITHIN THE ONE-YEAR TIME FROM THE DATE OF APPROVAL, THE CONSTRUCTION PLANS MUST BE RESUBMITTED TO ALL REVIEWING AND APPROVING AGENCIES FOR REVIEW, APPROVAL, AND RECERTIFICATION OF THE PLAN.	2.	ALL REQUIRED PRO DOW'S PROJECT M SCHEDULED. ONCE THE DOW CONSTR CONFERENCE CAN
6.	ALL GRADING, GRUBBING, AND STOCKPILING WORK MUST BE PERFORMED IN ACCORDANCE WITH THE COUNTY OF KAUA'I ORDINANCE NO. 808.		CONFERENCE AT L DEPARTMENT OF V
	AFTER EACH RAINFALL EVENT, THE CONTRACTOR MUST REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS, AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE COUNTY ENGINEER MUST BE PAYABLE BY THE	3.	THE CONTRACTOR SUPERINTENDENT EMERGENCY DURI
8.	CONTRACTOR. DURING CLEANING OPERATIONS, THE CONTRACTOR MUST SUPPLY A WATER TRUCK FOR DUST CONTROL	4.	THE CONTRACTOR TRENCHING, PIPE I INSPECTION SERVI
).	PURPOSES UNTIL THE VEGETATION HAD RE-ESTABLISHED ITSELF. EXCESS WATER, INCLUDING SILT AND DIRT, MUST NOT BE ALLOWED TO RUN-OFF THE PROPERTY. BENCHMARKS THAT ARE DISTURBED OR DESTROYED MUST BE RESTORED UNDER A LICENSED LAND	5.	ALL MATERIALS (PI DIRECT CONTACT CERTIFICATIONS, 1
0	SURVEYOR'S DIRECTION. COPIES OF FIELD NOTES, DESCRIPTIONS AND NEW VALUES OF THE NEW BENCHMARK MUST BE SENT TO THE DEPARTMENT OF PUBLIC WORKS SURVEY SECTION FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MUST BE RESPONSIBLE FOR ALL OVERTIME AND/OR NIGHT WORK PAYMENTS FOR THE	6.	WATER FOR REVIE THE LOCATION OF APPROXIMATE ONI AROUND ANY EXIS
0.	COUNTY'S STAFF AND INSPECTION PERSONNEL INCLUDING CONSULTANTS, WHEN THE CONTRACT REQUIRES OVERTIME OR NIGHT WORK TO BE PERFORMED, OR DIRECTS THE CONTRACTOR TO WORK ADDITIONAL SHIFTS OR OVERTIME FOR COUNTY'S CONVENIENCE.	7.	THE CONTRACTOR WATER METERS A
1.	BEST MANAGEMENT PRACTICES (BMP'S) MUST BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEDIMENTATION, EROSION OR DUST TO STREAMS, WATERCOURSES, NATURAL AREAS AND THE PROPERTY OF OTHERS.	8. 9.	THE CONTRACTOR
2.	SURVEYS, AND ALL CONSTRUCTION STAKE OUT FOR MASS GRADING, FINAL ROADWAY AND SHOULDER IMPROVEMENTS, AND UTILITIES (SEWER, DRAIN, WATER, ELECTRICAL, ETC.) MUST BE DONE UNDER THE SUPERVISION OF A LAND SURVEYOR LICENSED IN THE STATE OF HAWAI'I. IF THE CONTRACTOR ELECTS TO PERFORM THE SURVEY AND CONSTRUCTION STAKE OUTS WITHOUT THE SUPERVISION OF A LAND	10.	AND A NON-POTAB PASSAGE OF ANY S TRENCH EXCAVAT
	SURVEYOR, THE CONTRACTOR MUST SUBMIT FINAL AS-BUILT PLANS CERTIFIED BY A LAND SURVEYOR THAT ALL UTILITIES AND ALL GRADING WORK FOR FINAL ROAD AND SHOULDER ELEVATIONS WERE CONSTRUCTED IN THE LOCATION AND ELEVATIONS (INCLUDED BUT NOT LIMITED TO TOP AND INVERTS FOR UTILITIES) AS SHOWN ON THE AS-BUILT PLANS AND CERTIFIED BY THE DESIGN ENGINEER THAT THE AS-BUILT LOCATION AND ELEVATIONS FOR THE IMPROVEMENTS MEETS MINIMUM DESIGN STANDARDS AND REGULATORY REQUIREMENTS.	11.	SPECIFICATIONS F WARNING TAPE SH STANDARDS." THE POLYETHYLENE AN CROSSWISE. TAPE PRINTED INSCRIPT
13.	IF SYSTEM CONDITIONS REQUIRE NON-EMERGENCY NIGHTTIME WORK DURING THE AUTUMN SEABIRD FALL SEASON (SEPTEMBER 15 THROUGH DECEMBER 15), USE OF LIGHTING MUST BE RESTRICTED	12.	BLACK TEXT. ALL HYDRANTS SH
	BETWEEN 9:00 P.M. TO 4:30 A.M. IF LIGHTING OF THE WORK AREA IS REQUIRED IN SUCH SITUATION, ALL LIGHTS MUST BE SHIELDED (MINIMUM LIGHT SPILL TOWARDS THE SKY) AND DIRECTED DOWNWARDS TO THE MAXIMUM EXTENT PRACTICABLE. MINIMUM REQUIREMENTS FOR LIGHTING BY HIOSH AND OSHA MUST BE PROVIDED AND ASSURED BY THE CONTRACTOR. THE CONTRACTOR MUST TRAIN ALL EMPLOYEES WORKING AT NIGHT (RECORDS RETAINED BY THE CONTRACTOR) ON HOW TO HANDLE ANY RETRIEVED DOWNED BIRDS AND MUST HAVE APPROPRIATE EQUIPMENT AS APPROVED BY SAVE OUR SHEARWATERS (SOS) ON SITE TO HOLD AND TRANSPORT ANY RETRIEVED BIRDS TO AN SOS FACILITY. THIS REQUIREMENT	13.	ACCORDANCE WIT UNLESS OTHERWIS EXISTING MAIN, TH CHLORINATED, FLU OF THE "WATER SY
4.	DOES NOT ALLOW LIGHTING AS MAY BE RESTRICTED BY OTHER GOVERNMENT AGENCIES. PRIOR TO STARTING ANY EXCAVATION ACTIVITIES, THE CONTRACTOR MUST CONTACT THE HAWAI'I ONE		WATER SAMPLES OF HAWAI'I TO PEF
5.	CALL CENTER AT 1-866-423-7287. PRIOR TO INSTALLATION OF ANY NEW SEWER LINES, DRAIN LINES, MANHOLES, AND STRUCTURES THAT		IN ADDITION TO TH SHALL BE CONDUC
	WILL BE TRANSFERRED TO THE COUNTY OR REQUIRED FOR THE SUBDIVISION OF THE PROPERTY, THE CONTRACTOR MUST HAVE ALL IMPROVEMENTS (MAINS, PIPES, APPURTENANCES AND STRUCTURES) SURVEYED AND STAKED OUT BY A LICENSED PROFESSIONAL LAND SURVEYOR AND THE CONTRACTOR MUST EXPOSE, VERIFY, AND BACKFILL ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES IN CLOSE PROXIMITY TO CROSSINGS AND CONNECTIONS PRIOR TO EXCAVATION OF PIPELINE TRENCH. CONTRACTOR MUST PROVIDE THE LICENSED SURVEYOR CUT SHEET AND PROBING INFORMATION TO THE PUBLIC WORKS ENGINEERING CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL BEFORE MOVING FORWARD WITH INSTALLATION VIA THE SUBMITTAL REVIEW PROCESS.		PRIOR TO CHLORII SHALL SUBMIT A ( PROCEDURE CLEA STARTING ANTICIF THE DOW'S CONS ALL CHLORINATION OF CHLORINATION
16.	PRIOR TO INSTALLATION OF FINAL ROADWAY IMPROVEMENTS (SUBGRADE, BASE COURSE, AND FINAL CONCRETE OR AC PAVEMENT, CURBS, GUTTERS, SIDEWALK, ETC.) AND/OR ANY NEW RIGHT OF WAY IMPROVEMENTS THAT WILL BE TRANSFERRED TO THE COUNTY OR REQUIRED FOR THE SUBDIVISION OF THE PROPERTY, THE CONTRACTOR MUST HAVE ALL IMPROVEMENTS SURVEYED AND STAKED OUT BY A LICENSED PROFESSIONAL LAND SURVEYOR AND THE CONTRACTOR MUST EXPOSE, VERIFY, AND BACKFILL		THE TESTED PIPEL CALENDAR DAYS C THE DEPARTMENT TESTING, AND/OR THE CONNECTION
	ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES IN CLOSE PROXIMITY TO CONNECTIONS PRIOR TO ESTABLISHING ROAD SUBGRADE. CONTRACTOR MUST PROVIDE THE LICENSED SURVEYOR ROAD CENTERLINE (AND/OR CURB OFFSETS) CUT SHEET OF FINAL SUBGRADE TO THE PUBLIC WORKS ENGINEERING CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL BEFORE MOVING FORWARD WITH THE INSTALLATION VIA THE SUBMITTAL REVIEW PROCESS.		FOR DISINFECTION EXISTING DOW WA FREE CHLORINE (L OTHERWISE APPR
17.	THE DEPARTMENT OF PUBLIC WORKS MUST BE PROVIDED TWENTY (20) WORKING DAYS FOR ALL SUBMITTAL REVIEWS FROM THE TIME OF SUBMISSION BY THE CONTRACTOR.		FOR RESERVOIRS, LESS THAN 300 CF
18.	THE DEPARTMENT OF PUBLIC WORKS MUST HAVE ACCESS TO THE WORK AT ALL TIMES DURING CONSTRUCTION AND MUST BE FURNISHED WITH EVERY REASONABLE FACILITY (INCLUDING BUT NOT	14.	POLYURETHANE F
	LIMITED TO LAYOUT UNDER THE SUPERVISION OF A LAND SURVEYOR LICENSED IN THE STATE OF HAWAI'I) FOR ASCERTAINING THAT THE MATERIALS USED AND THE WORKMANSHIP ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER 9 SUBDIVISION ORDINANCE; ORDINANCE NO. 808, ARTICLE 7, GRADING, GRUBBING AND STOCKPILING; AND THE STANDARDS ESTABLISHED BY THE DEPARTMENT OF PUBLIC WORKS.	15.	ALL CONNECTIONS A. AN ADVANCE DI CONSUMERS AF
19.	FOR GRADING WORK EXCEEDING ONE (1) ACRE, WITH EMBANKMENTS IN EXCESS OF FIVE HUNDRED (500)		CHARGED THE
	CUBIC YARDS, AND WITH A DEPTH OF MORE THAN FOUR (4) FEET, THE CONTRACTOR MUST RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER FOR QUALITY CONTROL. CERTIFICATION FROM THE GEOTECHNICAL ENGINEER MUST BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS AT THE COMPLETION OF THE GRADING WORK. THE GEOTECHNICAL ENGINEER MUST CERTIFY THAT THE GRADING WORK MEETS THE REQUIREMENTS OF THE "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE		C. SHUTDOWN CO CONNECTIONS DECEMBER 18 –
	CONSTRUCTION, 2005" AND ITS AMENDMENTS; THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, COUNTY OF KAUA'I, CITY AND COUNTY OF HONOLULU, COUNTY OF MAUI, AND THE		D. ALL MATERIALS CONNECTION D
	COUNTY OF HAWAI'I DATED SEPTEMBER 1984" OR AS AMENDED; ORDINANCE NO. 808, ARTICLE 7, GRADING GRUBBING, AND STOCKPILING; AND THE APPROVED CONSTRUCTION PLANS. THE GEOTECHNICAL ENGINEER MUST ALSO SUBMIT TEST RESULTS AS REQUESTED BY THE DEPARTMENT OF PUBLIC WORKS.		E. PUMPS USED TO ENGINEER PRIO

### CONSTRUCTION NOTES (CONT)

N OF CONSTRUCTION, THE CONTRACTOR WILL PREPARE AND CERTIFY AS-BUILT REPRESENT ALL CHANGES TO THE ORIGINAL APPROVED CONSTRUCTION PLANS. THE D DESIGN ENGINEER WILL CERTIFY THAT ALL OF THE CHANGES SHOWN ON THE GS HAVE BEEN APPROVED BY THE DESIGN ENGINEER AND MEET MINIMUM STANDARDS VITH THE REQUIREMENTS OF THE ORIGINAL APPROVED CONSTRUCTION PLANS. THE PUBLIC WORKS MAY REQUIRE EVERY REASONABLE FACILITY TO VERIFY ANY I THE FINAL AS-BUILT PLANS PRIOR TO THE CERTIFICATION BY THE OWNER'S ENGINEER DT LIMITED TO HAVING A LAND SURVEYOR LICENSED IN THE STATE OF HAWAI'I CONFIRM FINAL LOCATION AND ELEVATIONS.

### CONSTRUCTION NOTES

/ISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER FACILITIES AND S SHALL BE IN ACCORDANCE WITH THE "WATER SYSTEM STANDARDS, 2002" AS ADOPTED MENT OF WATER, COUNTY OF KAUA'I, INCLUDING ALL SUBSEQUENT AMENDMENTS AND

ROJECT SUBMITTALS (MATERIALS, SHOP DRAWINGS, ETC.) SHALL BE APPROVED BY THE MANAGEMENT SECTION BEFORE A PRE-CONSTRUCTION CONFERENCE CAN BE CE ALL PROJECT SUBMITTALS HAVE BEEN APPROVED BY DOW CONSTRUCTION ENGINEER, RUCTION ENGINEER WILL NOTIFY THE CONTRACTOR THAT A PRECONSTRUCTION AN BE ARRANGED. THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION LEAST TEN (10) CALENDAR DAYS BEFORE CONSTRUCTION AND SHALL NOTIFY THE WATER AT LEAST THREE (3) WORKING DAYS PRIOR TO START OF CONSTRUCTION.

IR SHALL SUBMIT THE NAMES AND TELEPHONE NUMBERS OF ITS AUTHORIZED JOB IT AND AT LEAST THREE (3) ADDITIONAL PERSONS TO CONTACT IN CASE OF AN RING NON-WORKING HOURS.

OR SHALL NOTIFY THE DEPARTMENT OF WATER AT LEAST 24 HOURS PRIOR TO ANY E LAYING, BACKFILLING, TESTING OR DISINFECTION ACTIVITIES TO ENSURE THAT VICES WILL BE AVAILABLE.

PIPE, LUBRICANTS, PAINTS, SEALANTS, FORM OIL, CONCRETE ADMIXTURES, ETC.) IN WITH THE POTABLE WATER SHALL HAVE NATIONAL SANITATION FOUNDATION (NSF) . THE CONTRACTOR SHALL SUBMIT THESE CERTIFICATIONS TO THE DEPARTMENT OF IEW AND APPROVAL PRIOR TO ITS APPLICATION.

F EXISTING WATER MAINS AND APPURTENANCES SHOWN ON THE PLANS ARE NLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD. EXCAVATION ISTING WATER MAIN SHALL BE DONE BY HAND.

OR SHALL PROVIDE UNOBSTRUCTED ACCESS TO EXISTING HYDRANTS, VALVES AND AT ALL TIMES.

OR SHALL SECURE ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REGULATIONS.

NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SYSTEM ABLE WATER SYSTEM. SEWER. OR APPURTENANCE THERETO WHICH COULD PERMIT THE SEWAGE OR POLLUTED WATER INTO THE POTABLE WATER SUPPLY.

TION, BACKFILLING IN LIFTS, AND REPAVING SHALL CONFORM TO THE "HAWAI'I STANDARD. FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AS AMENDED.

SHALL BE IN ACCORDANCE WITH DIVISION 200, SECTION 212.08 OF THE "WATER SYSTEM E WARNING TAPE SHALL BE FOUR MIL THICK, NON-METALLIC, ACID AND ALKALI RESISTANT AND 6-INCHES WIDE WITH MINIMUM STRENGTH OF 1750 PSI LENGTHWISE AND 1500 PSI PE COLOR SHALL BE "SAFETY PRECAUTION BLUE" AND SHALL BEAR A CONTINUOUS PTION "CAUTION WATER LINE BURIED BELOW". INSCRIPTION SHALL BE 2-INCHES HIGH,

HALL RECEIVE A MINIMUM SSPC SP3 SURFACE PREPARATION AND COATED IN ITH DIVISION 200, SECTION 206.01 OF THE "WATER SYSTEM STANDARDS."

/ISE DIRECTED, PRIOR TO THE CONNECTION OF ANY PIPELINES AND/OR LATERALS TO THE HE PIPELINES/LATERALS INSTALLED SHALL BE CLEANED. PRESSURE TESTED. USHED, AND SAMPLED IN ACCORDANCE WITH DIVISION 300, SECTIONS 302.27 TO 302.29 SYSTEM STANDARDS."

SHALL BE TESTED FOR TOTAL COLIFORMS BY A LABORATORY CERTIFIED BY THE STATE ERFORM COLIFORM ANALYSIS. PRESENCE OF COLIFORM BACTERIA IS UNACCEPTABLE.

THE TEST FOR COLIFORMS, A SEPARATE TEST FOR HETEROTROPHIC PLATE COUNT (HPC) JCTED. THE HPC COUNT SHALL BE LESS THAN 300 CFU/ML.

RINATION, A WATER CHLORINATION AND SANITATION CONTRACTOR WITH A C-37D LICENSE CHLORINATION PLAN WITH WATER SOURCE, INJECTION POINTS, SAMPLING POINTS AND ARLY DEFINED FOR APPROVAL BY THE DOW THIRTY (30) CALENDAR DAYS PRIOR TO IPATED CHLORINATION OPERATIONS. THE CHLORINATION PLAN MUST BE APPROVED BY ISTRUCTION MANAGEMENT SECTION PRIOR TO STARTING CHLORINATION OPERATIONS. ON PLANS WILL BE APPROVED BASED ON THE CURRENT DOW REQUIREMENTS AT THE TIME N PLAN SUBMITTAL.

ELINES AND/OR LATERALS MUST BE CONNECTED TO THE EXISTING DOW SYSTEM WITHIN 14 OF PULLING THE FIRST DISINFECTION SAMPLE TESTED BY A CERTIFIED LABORATORY. IT OF WATER WILL REQUIRE THE CONTRACTOR TO REDO THE CLEANING, PRESSURE DISINFECTION OF THE PIPELINES AND/OR LATERALS AT THE CONTRACTOR'S EXPENSE IF N IS NOT COMPLETED WITHIN THESE 14 CALENDAR DAYS.

ON OF WATER LATERALS (SERVICE AND FIRE) THAT ARE TO BE CONNECTED DIRECTLY TO ATER LINES, SERVICE AND FIRE LATERALS SHALL BE DISINFECTED WITH A 1% (MINIMUM) (LIQUID SODIUM HYPOCHLORITE) SOLUTION BY SWABBING AND/OR SOAKING, UNLESS ROVED BY THE ENGINEER.

5, SECTION 303.10 SUBSECTION B.3.e.2. IS REPLACED WITH "TOTAL BACTERIAL COUNT IS FU/MI

FOAM "PIGS" SHALL BE "PUSHED" THROUGH THE LENGTH OF THE INSTALLED PIPELINE ZED WATER.

NS SHALL BE SCHEDULED IN COORDINATION WITH THE DEPARTMENT OF WATER.

DEPOSIT IS REQUIRED FOR OPERATING VALVES, FLUSHING LINES AND NOTIFYING AFFECTED BY A WATER SHUTDOWN DURING CONNECTIONS. THE CONTRACTOR WILL BE E ACTUAL COST.

TOR SHALL PLACE THE DEPOSIT PRIOR TO SCHEDULING THE CONNECTION DATE.

ONNECTIONS SHALL BE SCHEDULED ON TUESDAYS THROUGH THURSDAYS. NO SHALL BE SCHEDULED ON MONDAYS, FRIDAYS, WEEKENDS, AND HOLIDAYS, OR FROM – JANUARY 8 OF EACH YEAR.

S SHALL BE ON HAND AND APPROVED BY THE ENGINEER PRIOR TO SCHEDULING THE DATE.

TO DE-WATER THE CONNECTION AREA SHALL BE OPERATED IN THE PRESENCE OF THE IOR TO SCHEDULING THE CONNECTION DATE.

#### WATER CONSTRUCTION NOTES (CONT)

F. ALL CONNECTIONS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. G. NO LIVE TAPS SHALL BE SCHEDULED FROM DECEMBER 24 – DECEMBER 31 OF EACH YEAR.

16. IN ORDER TO PREVENT DAMAGE TO THE POLYETHYLENE ENCASEMENT FROM EXCESSIVE HANDLING. THE POLYETHYLENE ENCASEMENT SHALL BE INSTALLED AROUND THE BARREL OF THE DUCTILE IRON PIPE AT ITS FINAL LOCATION ALONG THE TRENCHLINE. THE POLYETHYLENE ENCASED PIPE SHALL BE LIFTED USING A FABRIC TYPE SLING OR A SUITABLY PADDED CABLE OR CHAIN TO PREVENT DAMAGE TO THE POLYETHYLENE.

17. THE CONTRACTOR SHALL TAKE ALL NECESSARY COMPACTION TESTS WHILE THE WATERLINE TRENCH IS BEING BACKFILLED AND WHILE THE SUBBASE/ BASECOURSE IS BEING PLACED. IF THE TEST RESULTS INDICATE THAT ADDITIONAL COMPACTION IS REQUIRED, THE CORRECTIVE WORK SHALL BE COMPLETED BEFORE ANY ADDITIONAL TRENCH EXCAVATION OR PLACING OF SUBBASE/ BASECOURSE IS ALLOWED.

THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER FOR QUALITY CONTROL. THE COMPACTION TEST RESULTS SHALL BE CERTIFIED BY THE GEOTECHNICAL ENGINEER AND SUBMITTED TO THE DEPARTMENT OF WATER, STATE HIGHWAYS DIVISION (FOR WORK DONE WITHIN STATE R/W) AND THE DEPARTMENT OF PUBLIC WORKS (FOR WORK DONE WITHIN COUNTY R/W). THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT THE COMPACTION RESULTS MEET THE REQUIREMENTS OF THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

- THE CONTRACTOR SHALL CONNECT ALL EXISTING CONSUMER PIPING TO THE NEW SERVICE LATERALS. THE DEPARTMENT OF WATER WILL TRANSFER THE EXISTING WATER METERS ONLY.
- 19. ALL FITTINGS SHALL BE MECHANICAL JOINT (MJ) AT EACH END UNLESS OTHERWISE NOTED. "MEGALUG" RETAINER GLANDS SHALL BE USED WITH ALL MECHANICAL JOINT FITTINGS AND VALVES USED IN CONNECTING NEW WATER MAINS TO EXISTING WATER MAINS UNLESS OTHERWISE NOTED.
- 20. ALL WATER VALVES THAT WILL BE ABANDONED IN PLACE SHALL BE PLACED IN THE "CLOSED" POSITION. REMOVE TOP SECTION OF VALVE BOX AND CONCRETE SETTLEMENT SLAB. FILL REMAINDER OF VALVE BOX WITH CONCRETE. PLACE BACKFILL AND REPAIR PAVEMENT SECTION TO APPLICABLE STATE OR COUNTY STANDARDS. BACKFILL TO FINISH GRADE IN ROAD SHOULDER AREA.
- 21. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE DEPARTMENT OF HEALTH PERMITS PRIOR TO THE START OF CONSTRUCTION. PERMITS INCLUDE, BUT ARE NOT LIMITED TO, HYDROSTATIC TEST, DEWATERING, AND FOR CONSTRUCTION ACTIVITIES, INCLUDING CLEARING, GRADING, AND EXCAVATION, THAT RESULT IN THE DISTURBANCE OF EQUAL TO OR GREATER THAN ONE (1) ACRE OF TOTAL LAND AREA

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF STORM WATER DISCHARGES AND EFFLUENT ASSOCIATED WITH CONSTRUCTION ACTIVITIES INCLUDING HYDROTESTING AND DISINFECTION OPERATIONS, TO SAFEGUARD PUBLIC HEALTH AND SAFETY IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS. ALL PERMITS AND LICENSES FOR STORM WATER AND CONSTRUCTION WATER DISPOSAL, INCLUDING ALL APPLICATION, CHARGES, FEES, AND TAXES, ARE THE RESPONSIBILITY OF THE CONTRACTOR.

- 22. THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING TRENCH AS NECESSARY WHERE GROUNDWATER IS ENCOUNTERED. ALL ASSOCIATED COSTS FOR DEWATERING SHALL BE BORNE BY THE CONTRACTOR.
- 23. THE USE OF KNOWN SEWER PUMP TRUCKS IS PROHIBITED FOR DOW PROJECTS FOR ANY USE, INCLUDING BUT NOT LIMITED TO DEWATERING AND TESTING OF NEW FACILITIES.
- 24. THE CONTRACTOR SHALL VERIFY OUTSIDE DIAMETER OF ALL EXISTING ASBESTOS-CEMENT (AC) WATERLINES TO BE CONNECTED. CONTRACTOR SHALL VERIFY USE OF PROPER GASKETS PRIOR TO CONNECTION. AC PIPE AND GASKET INFORMATION SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
- 25. ALL REMOVAL, DISPOSAL AND CONNECTION WORK THAT INVOLVES ASBESTOS PIPE/MATERIAL SHALL BE DONE IN THE PRESENCE OF OR BY A LICENSED ASBESTOS CONTRACTOR.

THE LICENSED ASBESTOS CONTRACTOR SHALL SUBMIT THEIR PLAN FOR ALL ASSOCIATED REMOVAL. DISPOSAL AND CONNECTION WORK FOR THE PROJECT TO DOW FOR REVIEW AND APPROVAL PRIOR TO CONDUCTING THE WORK.

- 26. ALL CONNECTIONS TO EXISTING AC PIPE SHALL BE AT THE NEAREST AC PIPE JOINT. AC PIPE SHALL BE REMOVED BY ENTIRE LENGTH(S) TO FACILITATE THE CONNECTION. CUTTING OF AC PIPE IS PROHIBITED.
- 27. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE OSHA, HIOSH AND FEDERAL REGULATIONS IN HANDLING AND DISPOSAL OF ASBESTOS-CEMENT PIPE. DISPOSAL OF THE PIPE SHALL BE AT AN APPROVED ASBESTOS MATERIAL DISPOSAL SITE
- 28. ALL WATERWORKS BRASS FITTINGS SHALL BE IN COMPLIANCE WITH THE AMENDED SECTION 1417 OF SAFE DRINKING WATER ACT (SDWA) WHICH TAKES EFFECT ON JANUARY 4, 2014. THE AMENDMENT INCLUDES A CHANGE TO THE DEFINITION OF "LEAD-FREE" BY REDUCING LEAD CONTENT FROM 8% TO A WEIGHTED AVERAGE OF NOT MORE THAN 0.25% IN THE WETTED SURFACE MATERIAL. ALL WATERWORKS BRASS FITTINGS INSTALLED FOR POTABLE WATER SERVICE ON JANUARY 4, 2014 AND BEYOND SHALL CONFORM TO THE AMENDED DEFINITION OF "LEAD-FREE."

AS INDICATED IN SECTION 211 OF WATER SYSTEM STANDARDS – BRASS PRODUCTS, ALL BRASS FITTINGS SHALL CONFORM TO NSF STANDARD 61 AND SECTION 1417 OF THE SAFE DRINKING WATER ACT (SDWA), IN ADDITION, ALL BRASS FITTINGS SHALL CONFORM TO NSF STANDARD 372.

- 29. CONTRACTOR SHALL INSTALL WATER FACILITIES ONLY AFTER REACHING FINAL SUBGRADE OR HIGHER. THE DEPARTMENT OF WATER WILL NOT ALLOW INSTALLATION OF ANY WATER FACILITIES UNTIL THE FINAL SUBGRADE LAYER AT MINIMUM HAS BEEN ACHIEVED.
- 30. PRIOR TO INSTALLATION OF NEW WATER LINES AND /OR FACILITIES. THE CONTRACTOR SHALL HAVE ALL FACILITIES SURVEYED AND STAKED OUT BY A LICENSED SURVEYOR AND THE CONTRACTOR SHALL EXPOSE, VERIFY, AND BACKFILL ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES IN CLOSE PROXIMITY TO CROSSINGS AND CONNECTIONS PRIOR TO EXCAVATION OF PIPELINE TRENCH. CONTRACTOR SHALL PROVIDE THE LICENSED SURVEYOR CUT SHEET AND THE PROBING INFORMATION TO THE DOW CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL BEFORE MOVING FORWARD WITH INSTALLATION VIA THE SUBMITTAL REVIEW PROCESS.
- 31. THE DEPARTMENT SHALL BE PROVIDED TWENTY (20) WORKING DAYS FOR ALL SUBMITTAL REVIEWS F THE TIME OF SUBMISSION BY THE CONTRACTOR.
- 32. UNLESS OTHERWISE SPECIFIED, ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS, SHALL BE ENCASEI ONE LAYER OF 8 MIL MINIMUM THICKNESS POLYETHYLENE MATERIAL IN ACCORDANCE WITH ANSI A-2 AND AWWA C105. THE POLYETHYLENE ENCASEMENT FILM SHALL BE MANUFACTURED FROM VIRGIN POLYETHYLENE AND SHALL CONSIST OF THREE LAYERS OF CO-EXTRUDED LINEAR LOW DENSITY POLYETHYLENE (LLDPE), FUSED INTO A SINGLE THICKNESS OF NOT LESS THAN 8 MILS. THE INSIDE SURFACE OF THE POLYETHYLENE WRAP TO BE IN CONTACT WITH THE PIPE EXTERIOR SHALL BE INFU WITH A BLEND OF AN ANTIMICROBIAL TO MITIGATE MICROBIOLOGICALLY INFLUENCED CORROSION AN VOLATILE CORROSION INHIBITOR TO CONTROL GALVANIC CORROSION. POLYETHYLENE MATERIAL SH HAVE PERMANENT MARKINGS PER AWWA C105.

COPPER SERVICE LATERALS SHALL BE ENCASED WITH POLYETHYLENE WRAP FROM THE CONNECTIO THE WATER MAIN TO THE ANGLE BALL VALVE LOCATED IN THE WATER METER BOX.

#### ADDITIONAL WATER NOTES

THE RIGHT OF WAY, EASEMENT AND RELEVANT PROPERTY CORNERS OR EASEMENTS AT THE PROPOSED WATER METER LOCATION(S) SHALL BE SURVEYED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. THE SURVEYED POINTS SHALL BE PRESERVED THROUGHOUT THE PROJECT'S CONSTRUCTION.

THE NEW SERVICE LATERAL PIPING MAY BE TAPPED AND INSTALLED HORIZONTALLY FROM THE EXISTING WATER LINE IF THERE ARE NO CONCRETE ENCASED UTILITY DUCTS TO CLEAR AT THE PROPERTY LINE.

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IN 5								
		REVISION	DATE		DESCRIPTION		APPROVED	
D				215	5 + KUBOTA C 53 North King Street, Honolulu, Hawaiʻi	Suite 200 6819		
L	ETEN H. YOS		KŪHI	Ō HI	18-03, WP2020 JO GHWAY (HAR MAIN REPLAO	DY-OXFOR		
Ō	★ LICENSED PROFESSIONAL ENGINEER ★	LĪHU'E WATER SYSTEM LĪHU'E, KAUA'I, HAWAI'I						
	No.15808-C		CO	ONS	TRUCTION	NOTES -	1	
	1- Hyalic	APPROVE	Auly	•		10/2	4/24	
IG NO.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	COUNTY OF KA	UA'I (FOR WORK		OF PUBLIC WORKS DUNTY R/W)	16/10	DATE <b>)/24</b>	
01	AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	Jason Kagimoto     10/10/24       FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER     DATE       COUNTY OF KAUA'I     DATE						
			FILE		POCKET	FOLDER	NO.	
	sheet 2 of 53 sheets							

## WATER POLLUTION AND EROSION

VVA	ATER POLLUTION AND EROSION	<u>VVAIER</u>
CC	ONTROL NOTES	CONTRO
. <u>G</u>	ENERAL:	ONSITE AND OFF
A.	THE CONTRACTOR IS REMINDED OF THE REQUIREMENTS OF SECTION 209-WATER POLLUTION AND EROSION CONTROL AND SECTION 620-DUST CONTROL, IN THE "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AND ITS AMENDMENTS. SECTION 209 DESCRIBES BUT IS NOT LIMITED TO: SUBMITTAL REQUIREMENTS; SCHEDULING OF A WATER POLLUTION AND EROSION CONTROL CONFERENCE WITH THE COUNTY; CONSTRUCTION REQUIREMENTS; METHOD OF MEASUREMENT; AND BASIS OF PAYMENT. NO WORK SHALL COMMENCE WITHOUT A BMP PLAN APPROVED BY THE DEPARTMENT OF HEALTH.	THE FOLLOWING A. PETROLEUM REGULAR PF SHALL BE ST SUBSTANCE RECOMMEN
В.	THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE "INTERIM BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES FOR COUNTY OF KAUA'I" APRIL 2004 IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMPS) FOR THE PROJECT. THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS TO THE COUNTY ENGINEER FOR ACCEPTANCE.	B. FERTILIZERS MANUFACTL WATER. STO BAGS OF FE
C.	THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED BMP PLAN, NOI, ETC. ON THE PROJECT SITE. THE BMP PLAN SHALL BE UPDATED TO REFLECT ANY CHANGES MADE DURING THE COURSE OF CONSTRUCTION FOR THE DURATION OF THE PROJECT.	C. PAINTS: SEA EXCESS PAI MANUFACTL
D.	THE CONTRACTING OFFICER MAY ASSESS LIQUIDATED DAMAGES OF UP TO \$27,500 FOR NON-COMPLIANCE OF EACH BMP REQUIREMENT AND EACH REQUIREMENT STATED IN SPECIFICATION SECTION 209, FOR EVERY DAY OF NON-COMPLIANCE. THERE IS NO MAXIMUM LIMIT ON THE AMOUNT ASSESSED PER DAY.	D. CONCRETE DESIGNATEI UNITED STA RECEIVE PE OWNER'S RE
E.	THE COUNTY ENGINEER MAY DEDUCT THE COST FROM THE PROGRESS PAYMENT FOR ALL CITATIONS RECEIVED BY THE DEPARTMENT FOR NON-COMPLIANCE, OR THE CONTRACTOR / OWNER SHALL REIMBURSE THE STATE, AND/OR COUNTY FOR THE FULL AMOUNT OF THE OUTSTANDING COST INCURRED BY THE STATE AND/OR COUNTY.	SPILL CONTROL A. POST A SPIL
_	ASTE DISPOSAL: WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THAT DOES NOT LEAK. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF TWICE PER WEEK OR AS OFTEN AS IS DEEMED NECESSARY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.	<ul> <li>B. THE CONTRALEAST THRE THESE INDIVAND CLEAN</li> <li>C. CLEARLY POPERSONNEL SUPPLIES.</li> <li>D. KEEP MATEF ONSITE.</li> </ul>
В.	HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. THE CONTRACTOR'S SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES AND SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.	E. CLEAN UP A F. KEEP THE SI CLOTHING T
C.	SANITARY WASTE: ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED.	G. REPORT SPI GOVERNMEI
3. <u>Ef</u>	ROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:	5. <u>NATIONAL POLLU</u>
A.	ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER.	A. THE CONTRA (NPDES) REC
В.	ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.	PERMIT FOR CHANGES FI UMI STREET AWARE OF 1
C.	. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.	B. THE CONTRA
D.	SILT SCREEN OR FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT AND TEARS TO VERIFY THAT THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS OR CONCRETE SLAB AND TO VERIFY THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.	AND COMPL REQUIREME CONTRACTO (NGPC) IS RE
E.	TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASH OUTS AND HEALTHY GROWTH.	OTHER APPL C. THE CONTR
F.	THE CONTRACTOR SHALL SUBMIT TO THE COUNTY ENGINEER A MAINTENANCE INSPECTION REPORT PROMPTLY AFTER EACH WEEKLY INSPECTION.	COMPLIANC SUBMITTAL PERFORM W
G	. THE CONTRACTOR SHALL SELECT A MINIMUM OF THREE PERSONNEL WHO SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.	KAUA'I I
H.	PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.	(KIUC) N 1. THE LOCATION APPROXIMATE
I.	ALL SLOPES AND EXPOSED AREAS SHALL BE GRASSED AS FINAL GRADES HAVE BEEN ESTABLISHED, GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA IN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED OR EXPOSED FOR MORE THAN 14 DAYS SHALL BE GRASSED IN ORDER TO PREVENT DUST EMISSION, EROSION AND SILT RUNOFF. AREAS WITH IMPORTED SOILS SHALL BE GRASSED NOT MORE THAN 5 WORKING DAYS AFTER FINAL GRADES HAVE BEEN ESTABLISHED.	THE FIELD. 2. THE CONTRAC UNDERGROUN
J.	TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.	3. MAINTAIN MINII POLES.
1. <u>G</u>	OOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:	4. WATERLINE SH
M	ATERIALS POLLUTION PREVENTION PLAN:	5. THE CONTRAC 246-4343 AT LE
Α.	APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION. OTHER MATERIALS AND SUBSTANCES NOT LISTED BELOW SHALL BE ADDED TO THE INVENTORY OF THE CONTRACTOR'S SITE-SPECIFIC BMP PLAN.	6. THE CONTRAC KIUC'S FACILITI
	CONCRETEFERTILIZERSDETERGENTSPETROLEUM BASED PRODUCTSPAINTS (ENAMEL AND LATEX)CLEANING SOLVENTSMETAL STUDSWOODTAR MASONRYBLOCK	7. THE CONTRAC ANY DAMAGES 246-8200.
В.	MATERIAL MANAGEMENT PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCTS AS IS REQUIRED TO DO THE JOB.	8. A MINIMUM OF THE VICINITY C
C.	ALL MATERIALS STORED ONSITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.	1. THE CONTRACT
D.	APPROPRIATE CONTAINERS AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.	WHENEVER CC TELCOM FACIL CONTRACTOR
	SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. A PRODUCT SHALL BE USED UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.	FACILITIES. AN TELCOM'S REP ADJUSTMENTS PROVIDE THE F
	A PRODUCT SHALL BE USED UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.	2. THE CONTRAC
	<ul> <li>MANUFACTORER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.</li> <li>THE CONTRACTOR SHALL CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.</li> </ul>	2. THE CONTRAC COMPROMISEE SONE AT 241-50 371-2962.
H	AZARDOUS MATERIAL POLLUTION PREVENTION PLAN:	371-2962.

- HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN:
- A. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- B. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE RETAINED AND MADE AVAILABLE TO THE COUNTY ENGINEER UPON REQUEST.
- C. SURPLUS PRODUCTS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL AND STATE RECOMMENDED ACTIONS.

### WATER POLLUTION AND EROSION NTROL NOTES (CONT)

ITE AND OFFSITE PRODUCTS SPECIFIC PLANS:

FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE

PETROLEUM BASED PRODUCTS: ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

FERTILIZERS: APPLY FERTILIZERS USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, WORK FERTILIZER INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED. TRANSFER THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS: SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE. DO NOT DISCHARGE EXCESS PAINT TO THE ROADWAY DRAINAGE SYSTEM. DISPOSE PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTION OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS: WASH OUT OR DISCHARGE CONCRETE TRUCK DRUM WITH WATER ONLY AT A DESIGNATED SITE. DO NOT DISCHARGE WATER IN THE LOCAL DRAINAGE SYSTEM OR WATERS OF THE UNITED STATES. CONTACT DRINKING WATER BRANCH, DEPARTMENT OF HEALTH AT (808) 586-4258 TO RECEIVE PERMISSION TO DESIGNATE A DISPOSAL SITE. CLEAN DISPOSAL SITE AS REQUIRED BY THE OWNER'S REPRESENTATIVE.

. CONTROL PLAN:

POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILL.

THE CONTRACTOR SHALL BE THE SPILL PREVENTION AND CLEAN UP COORDINATOR. DESIGNATE AT LEAST THREE SITE PERSONNEL WHO SHALL RECEIVE SPILL PREVENTION AND CLEAN UP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEAN UP. POST THE NAMES OF RESPONSIBLE SPILL PERSONNEL IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

CLEARLY POST MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP. MAKE SITE PERSONNEL AWARE OF THE PROCEDURES AND THE LOCATION OF INFORMATION AND CLEAN UP

KEEP MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN UP IN THE MATERIAL STORAGE AREA

CLEAN UP ALL SPILLS IMMEDIATELY AFTER DISCOVERY.

KEEP THE SPILL AREA WELL VENTILATED. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

#### ONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS:

THE CONTRACTOR SHALL COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR KAUA'I DISTRICT PERMIT PROJECTS. DOW HAS OBTAINED A NPDES PERMIT FOR STORM WATER. CONTRACTOR TO OBTAIN NEW NPDES PERMIT IF PROPOSING ANY CHANGES FROM PERMIT OBTAINED BY DOW. THIS IS AVAILABLE AT THE KAUA'I DISTRICT OFFICE AT 3040 UMI STREET, SUITE 205. DUE TO POTENTIAL COSTS AND IMPACTS, THE CONTRACTOR NEEDS TO BE AWARE OF THESE REQUIREMENTS.

THE CONTRACTOR SHALL OBTAIN, IF PROPOSING CHANGES TO THE NPDES PERMIT OBTAINED BY DOW, AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND. THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH. STATE OF HAWAI'I AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.

THE CONTRACTOR SHALL COMPLETE AND SUBMIT A CONTRACTOR'S CERTIFICATION OF NPDES COMPLIANCE, INCLUDING COMPLETION OF THE BEST MANAGEMENT PRACTICE (BMP) CHECKLIST AND SUBMITTAL OF A WRITTEN BMP PLAN AND DRAWINGS. PRIOR TO ISSUANCE OF THE PERMIT TO PERFORM WORK UPON COUNTY ROADWAYS.

#### UA'I ISLAND AND UTILITY COOPERATIVE JC) NOTES

LOCATION OF EXISTING KAUA'I ISLAND UTILITIES COOPERATIVE FACILITIES ARE PROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN

CONTRACTOR SHALL CALL BEFORE YOU DIG NUMBER AT 1-866-423-7287 FOR DERGROUND UTILITY LOCATES TEN DAYS BEFORE START OF CONSTRUCTION.

INTAIN MINIMUM 5'-0" HORIZONTAL CLEARANCE BETWEEN WATERLINES AND KIUC

ATERLINE SHALL NOT RUN DIRECTLY UNDER OVERHANGING POWERLINES.

CONTRACTOR SHALL NOTIFY THE KIUC'S CONSTRUCTION COORDINATOR AT 5-4343 AT LEAST FIVE DAYS IN ADVANCE. IF KIUC FACILITIES WILL BE AFFECTED.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST TO ADJUST OR RELOCATE JC'S FACILITIES AND TO TEMPORARILY RELOCATE FACILITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO KIUC FACILITIES. Y DAMAGES SHALL BE REPORTED IMMEDIATELY TO KIUC TROUBLE CALL AT

AINIMUM OF 15 FEET RADIAL CLEARANCE IS REQUIRED WHEN WORKING WITHIN VICINITY OF ENERGIZED OVERHEAD ELECTRICAL LINES.

### WAIIAN TELCOM NOTES

CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN PROPER CLEARANCES ENEVER CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF HAWAIIAN LCOM FACILITIES INCLUDING OVERHEAD CABLES AND SERVICE WIRES. THE INTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO HAWAIIAN TELCOM CILITIES. ANY DAMAGES SHALL BE REPORTED IMMEDIATELY TO HAWAIIAN LCOM'S REPAIR SECTION AT 611. AS A RESULT OF HIS OPERATIONS, JUSTMENTS IN THE NEW CONSTRUCTION, IF REQUIRED, SHALL BE MADE TO OVIDE THE REQUIRED CLEARANCES.

CONTRACTOR SHALL BRACE ALL EXISTING POLES THAT MAY BE MPROMISED BY THE OPERATIONS. IF IN DOUBT, CONTACT HT ENGINEER JIMMY NE AT 241-5052 OR HT CONSTRUCTION SUPERVISOR DUKE SARDINHA AT

3. THE CONTRACTOR SHALL NOTIFY DUCK SARDINHA, HAWAIIAN TELCOM'S INSPECTOR AT 371-2962, SHOULD ANY HAWAIIAN TELCOM FACILITIES BE AFFECTED BY THE PROPOSED WORK.

#### NOTES FOR CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY

- ALL DAMAGED PAVEMENT SHALL BE RESTORED TO ITS ORIGINAL CONDITION IN ACCORDANCE WITH COUNTY OF KAUA'I, "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AND ITS AMENDMENTS AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984" AS AMENDED BY THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU, AND THE COUNTIES OF KAUA'I, MAUI AND HAWAI'I, WITH 2" MINIMUM HOT MIXED ASPHALT CONCRETE PAVEMENT (STATE DESIGN MIX V) AND 8" MINIMUM BASE COURSE.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF THE PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS ADOPTED BY THE HIGHWAY SAFETY COORDINATOR AND U.S. FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS DATED 2009 AND ITS AMENDMENTS.
- THE CONTRACTOR SHALL, WHENEVER NECESSARY, PROPERLY SHEET AND BRACE ALL EXCAVATIONS TO RENDER IT SECURE AND SHALL REMOVE ALL SUCH SHEETING AND BRACING BEFORE COMPLETION OF THE BACKFILL FOR WATER MAINS. THE MINIMUM COVER REQUIREMENTS (FROM TOP OF PIPE TO FINISHED GRADE OVER PIPE) IS THREE (3) FEET.
- A. PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FROM THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUA'I BEFORE WORK ON A PUBLIC STREET OR HIGHWAY MAY BEGIN. PERMIT FEES SHALL BE AT THE CONTRACTOR'S EXPENSE.
- B. DRIVEWAYS SHALL BE KEPT OPEN UNLESS OWNERS OF THE ABUTTING LOTS USING THESE RIGHT-OF-WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY.
- C. ALL WORK INCLUDING REPAIR OF DAMAGED PAVEMENT AND SHOULDERS SHALL BE INSPECTED AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS. ALL UNAPPROVED WORK SHALL BE CONSIDERED UNACCEPTABLE AND SHALL BE REWORKED AND CORRECTED AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS, AT THE CONTRACTOR'S EXPENSE.
- D. DAMAGED SHOULDERS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION.
- E. WORK ON A PUBLIC STREET AREA MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:00 A.M. TO 3:30 P.M. MONDAY THROUGH FRIDAY. EXCEPT ON HOLIDAYS RECOGNIZED BY THE COUNTY OF KAUA'I, UNLESS OTHERWISE PERMITTED IN WRITING BY THE COUNTY ENGINEER.
- F. DURING NON-WORKING HOURS, ALL TRENCHES SHALL BE COVERED WITH A SAFE NON-SKID BRIDGING MATERIAL AND ALL LANES SHALL BE OPENED TO PUBLIC VEHICULAR AND PEDESTRIAN TRAFFIC.
- G. NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN COUNTY RIGHT-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE COUNTY ENGINEER.
- H. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO OFFER THE LEAST POSSIBLE OBSTRUCTIONS AND INCONVENIENCE TO THE PUBLIC AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT HE CAN EXECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC.
- I. ALL EXISTING DRAINAGE FLOW CONDITIONS SHALL BE MAINTAINED.
- 4 THE CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER FOR QUALITY CONTROL. CERTIFICATION FROM THE REGISTERED GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS AT THE COMPLETION OF THE CONSTRUCTION WORK. THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT THE CONSTRUCTION WORK MEETS "STANDARD SPECIFICATIONS". THE GEOTECHNICAL ENGINEER SHALL ALSO SUBMIT TEST RESULTS AS REQUESTED BY THE DEPARTMENT OF PUBLIC WORKS.
- 5. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE CONSTRUCTION-DESIGN SECTION OF THE DEPARTMENT OF PUBLIC WORKS BEFORE COMMENCING ANY WORK.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PRESERVE BENCHMARKS (SURVEY MONUMENTS) WHENEVER THE CENTER OF A SURVEY MONUMENT IS LESS THAN THREE (3) FEET FROM THE EDGE OF CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO REFERENCE THE LOCATION OF SAID SURVEY MONUMENT.
- BENCHMARKS THAT ARE DISTURBED OR DESTROYED SHALL BE RESTORED UNDER A LICENSED LAND SURVEYOR'S DIRECTION. COPIES OF FIELD NOTES. DESCRIPTIONS AND NEW VALUES OF THE NEW BENCHMARK SHALL BE SENT TO THE DEPARTMENT OF PUBLIC WORKS SURVEY SECTION FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OVERTIME OR NIGHT WORK PAYMENTS FOR COUNTY'S STAFF AND INSPECTION PERSONNEL INCLUDING CONSULTANTS WHEN THE CONTRACT REQUIRES OVERTIME OR NIGHT WORK TO BE PERFORMED, OR DIRECTS THE CONTRACTOR TO WORK ADDITIONAL SHIFTS OR OVERTIME FOR COUNTY'S CONVENIENCE.
- 9. IF SYSTEM CONDITIONS REQUIRE NON-EMERGENCY NIGHTTIME WORK DURING THE AUTUMN SEABIRD FALL SEASON (SEPTEMBER 15 THROUGH DECEMBER 15), USE OF LIGHTING SH BETWEEN 9:00 P.M. TO 4:30 A.M. IF LIGHTING OF THE WORK AREA IS REQUIRED LIGHTS SHALL BE SHIELDED (MINIMUM LIGHT SPILL TOWARDS THE SKY) AND I THE MAXIMUM EXTENT PRACTICABLE. MINIMUM REQUIREMENTS FOR LIGHTIN SHALL BE PROVIDED AND ASSURED BY THE CONTRACTOR. THE CONTRACTOR EMPLOYEES WORKING AT NIGHT (RECORDS RETAINED BY THE CONTRACTOR) RETRIEVED DOWNED BIRDS AND SHALL HAVE APPROPRIATE EQUIPMENT AS A SHEARWATERS (SOS) ON SITE TO HOLD AND TRANSPORT ANY RETRIEVED BII THIS REQUIREMENT DOES NOT ALLOW LIGHTING AS MAY BE RESTRICTED BY AGENCIES.

### TOPOGRAPHIC SURVEY NOTES

- 1. TOPOGRAPHIC SURVEY WORK COMPLETED BY ESAKI SURVEYING & MAPPING ENTITLED "TOPOGRAPHIC MAP OF KALI ROAD, POINCIANA STREET, AND KŪHIČ (VICINITY OF HARDY STREET INTERSECTION TO AHUKINI INTERSECTION)" DAT
- 2. ALL COORDINATES AND AZIMUTHS ARE BASED ON "LĪHU'E COUNTY BUILDING TRIANGULATION STATION, ELEVATION = 207.03 MSL.
- 3. ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL
- 4. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE BA INFORMATION.
- 5. ALL ELEVATIONS AND DISTANCES SHOWN ARE IN FEET.
- 6. BENCH MARK IS SHOWN ON SHEET G-004.
- 7. BENCHMARK: HARDY BRASS DISK, NEAR THE INTERSECTION OF HARDY STREE HIGHWAY, ELEVATION: 205.73' MSL. SEE SHEET G-004.

### **ENVIRONMENTAL NOTES**

- 1. IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL TITLE 11, STATE ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EFFECTIVE CONTROL MEASURES ARE PROVIDED TO MINIMIZE OR PREVENT ANY VISIBLE DUST EMISSION CAUSED BY THE CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING AREAS INCLUDING THE OFF-SITE ROADWAYS USED TO ENTER/EXIT THE PROJECT. THESE MEASURES INCLUDE BUT ARE NOT LIMITED TO THE USE OF WATER WAGONS, SPRINKLER SYSTEMS, DUST FENCES, ETC.
- 2. IN ACCORDANCE WITH CHAPTER 11-55, WATER POLLUTION CONTROL AND CHAPTER 11-54, WATER QUALITY STANDARDS, TITLE 11, STATE ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE BEST MANAGEMENT PRACTICE (BMP) TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENTS, DEBRIS AND OTHER WATER POLLUTANT INTO STATE WATERS IS PROVIDED AT ALL TIMES.
- IN ACCORDANCE WITH CHAPTER 11-58. SOLID WASTE MANAGEMENT CONTROL TITLE 11. STATE ADMINISTRATIVE RULES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT GRUB MATERIAL DEMOLITION WASTE AND CONSTRUCTION WASTE GENERATED BY THE PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE DEPARTMENT OF HEALTH. DISPOSAL OF ANY OF THESE WASTES BY BURNING IS PROHIBITED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS FROM THE DEPARTMENT OF HEALTH INCLUDING BUT NOT LIMITED TO NOTICE OF INTENT AND GENERAL PERMIT FOR STORM WATER, HYDROSTATIC TEST AND DEWATERING DISCHARGES PRIOR TO COMMENCING CONSTRUCTION. DOW HAS OBTAINED A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER. CONTRACTOR TO OBTAIN NEW NPDES PERMIT IF PROPOSING ANY CHANGES FROM PERMIT OBTAINED BY DOW. NPDES PERMIT SHALL BE REQUIRED PRIOR TO GRADING OR GRUBBING WORK OVER AN AREA OF ONE ACRE OR MORE.
- 5. AFTER EACH RAINFALL EVENT. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM THIS WORK AND DEPOSITED IN DRAINAGE FACILITIES. ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE COUNTY ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
- BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEDIMENTATION, EROSION OR DUST TO STREAMS, WATERCOURSES, NATURAL AREAS AND THE PROPERTY OF OTHERS.
- 7. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND. THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH. STATE OF HAWAI'I AND HAS SATISFIED ANY OTHER PERMITTING REQUIREMENTS OF THE NPDES PERMIT PROGRAM.
- 8. IN ACCORDANCE WITH CHAPTER 11-46. COMMUNITY NOISE. HAWAI'I ADMINISTRATIVE RULES. THE CONTRACTOR AND THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING EFFECTIVE CONTROL MEASURES TO MINIMIZE OR PREVENT CONSTRUCTION RELATED NOISE FROM IMPACTING THE RESIDENTS IN THE IMMEDIATE AREA. IF REQUIRED, NOISE REDUCTION MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR DURING THE CONSTRUCTION WORK.
- 9. THE PROPERTY MAY HARBOR RODENTS WHICH WILL BE DISPERSED TO THE SURROUNDING AREAS WHEN THE SITE IS CLEARED. IN ACCORDANCE WITH CHAPTER 11-26, ENTITLED VECTOR CONTROL OF TITLE 11, HAR, THE CONTRACTOR SHALL ASCERTAIN THE PRESENCE OR ABSENCE OF RODENTS ON THE PROPERTY SHOULD THE PRESENCE OF RODENTS BE DETERMINED, THE CONTRACTOR SHALL ERADICATE THE RODENTS PRIOR TO CLEARING THE SITE.
- 10. A COPY OF THE PLANS, CONSTRUCTION SCHEDULE AND/OR WRITTEN MEASURES THAT IS REQUIRED TO BE SUBMITTED BY THE CONTRACTOR (DUST CONTROL MEASURES/PLANS) SHOULD ALSO BE SENT TO THE DEPARTMENT OF HEALTH FOR MONITORING PURPOSES.
- 11. NOISE WILL BE GENERATED DURING THE CLEARING, GRADING AND CONSTRUCTION PHASES OF THIS PROJECT. THE APPLICABLE MAXIMUM PERMISSIBLE SOUND LEVELS AS STATED IN TITLE 11, HAWAI'I ADMINISTRATIVE RULES, CHAPTER 11-46, COMMUNITY NOISE, SHALL NOT BE EXCEEDED, UNLESS A NOISE PERMIT IS OBTAINED FROM THE HAWAII STATE DEPARTMENT OF HEALTH.

### HISTORICAL PRESERVATION NOTES

1. SHOULD HISTORIC REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR. SHALL CORDON OFF THE AREA AND IMMEDIATELY NOTIFY THE PLANNING DEPARTMENT AT (808) 241-4050 AND STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND THE APPROPRIATE MITIGATION MEASURES. IF NECESSARY. IN ADDITION, IF HUMAN BURIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY OF KAUA'I POLICE DEPARTMENT.

HALL BE RESTR D IN SUCH SITU DIRECTED DOW IG BY HIOSH AN R SHALL TRAIN ) IN HOW TO HA APPROVED BY S RDS TO A SOS OTHER GOVER		٨	AND UTILITY COOP			/19/24 DATE /10/24 DATE		
i, INC., MAP Ō HIGHWAY ʿED MARCH 6, 2	019.		REVISION	DATE BOW	DESCRIPTION ERS + KUBOTA CO 2153 North King Street, S Honolulu, Hawai'i 96	Suite 200	APPROVED	
FLAG POLE" ASED ON RECORD			JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHUʻE WATER SYSTEM LĪHUʻE, KAUAʻI, HAWAIʻI					
		No.15808-C		CO	NSTRUCTION	NOTES - 2		
ET AND KŪHIŌ		1/- Hyalic	APPROVE	Shale		10/24		
	DRAWING NO.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	COUNTY OF KA	UA'I (FOR WORK V	IMENT OF PUBLIC WORKS W/IN COUNTY R/W)	10/10		
	G-002	AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	Jason Kay FOR MANAGER COUNTY OF KA	AND CHIEF ENGIN	EER, DEPARTMENT OF WATER	16/10 	D/24	
		sheet <b>3</b> of <b>53</b> sheets		FILE	POCKET	FOLDER	NO.	

_	OTES FOR CONSTRUCTION WITHIN TATE RIGHT-OF-WAY	NOTES STATE
1.	APPROVAL OF PERMIT CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF ONE YEAR THEREOF FROM THE DATE OF NOTIFICATION OF APPROVAL TO THE APPLICANT. IN THE EVENT CONSTRUCTION DOES NOT COMMENCE WITHIN THIS ONE-YEAR PERIOD, THE APPLICANT WILL BE REQUIRED TO RESUBMIT HIS CONSTRUCTION PLANS FOR DIVISION'S REVIEW AND APPROVAL.	22. COMPACTIC MISCELLAN a. SUBB
2.	NO CONSTRUCTION WITHIN THE STATE HIGHWAY RIGHT-OF-WAY SHALL COMMENCE UNTIL AN APPLICATION FOR A "PERMIT TO PERFORM WORK UPON STATE HIGHWAYS" HAS BEEN COMPLETED, AND PERMIT ISSUED TO THE AGENCY, AND/OR, ITS CONTRACTOR. HTTPS://HIDOT.HAWAII.GOV/HIGHWAYS/HOME/DOING-BUSINESS/GUIDE-TO-PERMITS/ (PH. 808-241-3000).	a. SUBB. b. BASE c. ONE ( d. COPY AND A
3.	THE CONTRACTOR SHALL NOTIFY THE STATE HIGHWAYS DIVISION, KAUAI DISTRICT OFFICE, CONSTRUCTION ENGINEER TWO (2) WEEKS PRIOR TO COMMENCING WORK.	23. SMOOTH RI THE BEGINI SHOWN ON
4.	CONSTRUCTION AND RESTORATION OF ALL EXISTING HIGHWAY FACILITIES WITHIN STATE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE CURRENT "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2005," AND THE "SPECIFICATION FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS" OF THE STATE HIGHWAY DIVISION.	24. PRIOR TO C THE NEW C VERIFICATIO BE SUBMITT
5.	AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTION TO PERMIT FREE PASSAGE OF PUBLIC TRAFFIC AND PEDESTRIANS.	25. THE CONTR BRIDGING N
6.	ALL LANES SHALL BE OPEN TO TRAFFIC DURING MORNING PEAK HOURS FROM 6:30 A.M. TO 8:30 A.M., AND DURING AFTERNOON PEAK HOURS FROM 3:00 P.M. TO 6:00 P.M., AND DURING OFF WORK HOURS.	HANDLE ALI 26. NO TRENCH
7.	WORK MAY BE PERFORMED FROM 7:00 AM MONDAY TO 5:30 PM FRIDAY, EXCEPT STATE HOLIDAYS, UNLESS OTHERWISE PERMITTED BY THE DISTRICT ENGINEER.	AND/OR DU 27. THE CONTR
8.	ALL WORK ON STATE HIGHWAYS THAT REQUIRES LANE CLOSURES SHALL BE DONE AT NIGHT. THE CONTRACTOR SHALL CONDUCT NIGHT WORK ONLY AS FOLLOWS:	SIGNALS, E RESPECTIV CONTRACT
	SUNDAY THRU THURSDAY 9:00 P.M 12:00 MIDNIGHT MONDAY THRU FRIDAY 12:00 MIDNIGHT - 5:00 A.M.	28. PAVEMENT THERMOPL
	E CONTRACTOR SHALL NOT DO WORK ON FRIDAY NIGHTS AND SATURDAYS OR AS ORDERED BY THE GINEER. SUNDAY'S WORK WILL BE PART OF MONDAY'S WORKING DAY. THE CONTRACTOR SHALL OBTAIN A ISE VARIANCE PERMIT (SUBMIT COPY TO STATE HIGHWAYS) AND ALL OTHER REQUIRED PERMITS BEFORE GINNING NIGHT WORK.	29. THE CONTR ALL STEEL PATCHING ( STEEL PLAT
9.	NIGHT WORK SHALL NOT BE PERFORMED DURING THE PERIOD FROM SEPTEMBER 15 TO DECEMBER 31 OF EACH YEAR.	30. ANY WORK FOLLOWED
10.	CONTRACTOR SHALL COMPLETE AND SUBMIT A WEEKLY LANE CLOSURE REQUEST FORM TO THE STATE HIGHWAYS OFFICE AT LEAST 14 DAYS PRIOR TO ANY ROADWORK ON STATE HIGHWAYS.	THE CONTR LOOPS TAK CONTRACT
11.	THE CONTRACTOR SHALL COMPLY WITH THE ATTACHED TRAFFIC CONTROL PLANS AND SIGN SPACING TABLE.	31. BENCHMAR SURVEYOR
12.	ALL WORKERS WITHIN THE STATE RIGHT-OF-WAY WHO ARE EXPOSED TO EITHER VEHICLES USING THE ROADWAY OR TO CONSTRUCTION EQUIPMENT SHALL WEAR HIGH VISIBILITY SAFETY APPAREL THAT MEETS THE PERFORMANCE CLASS 2 OR 3 REQUIREMENTS OF ANSI/SEA 107-2004. "WORKERS" IS DEFINED AS PEOPLE ON FOOT WHOSE DUTIES PLACE THEM WITHIN THE STATE RIGHT-OF-WAY SUCH AS BUT NOT LIMITED TO CONSTRUCTION AND MAINTENANCE FORCES, EQUIPMENT OPERATORS, SURVEY CREWS, UTILITY	BENCHMAR FINAL ACCE 32. THE CONTR THE WORK RELEASE O
	CREWS, RESPONDERS TO INCIDENTS (E.G. EMT AND FIREMEN) AND LAW ENFORCEMENT PERSONNEL DIRECTING TRAFFIC, INVESTIGATING ACCIDENTS, AND HANDLING LANE CLOSURES AND OBSTRUCTED ROADWAYS.	33. THE PERMI ANY OF THE
13.	NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN HIGHWAY RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNED IN WRITING AND APPROVED BY THE CONSTRUCTION ENGINEER.	a. WORł b. FAILU c. FAILU
14.	PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE VARIOUS AGENCIES FOR LOCATION OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. ANY COSTS INCURRED BY DAMAGES TO EXISTING UTILITIES WILL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL REQUEST TONING OF UTILITIES FROM ONE-CALL CENTER, PHONE: 1-866-423-7287. THE CONTRACTOR SHALL ALSO CALL THE COUNTY OF KAUAI DEPARTMENT OF WATER, PHONE 245-5411 AND THE WASTEWATER DIVISION, PHONE 241-6642 FOR TONING OF WATERLINES AND SEWER LINES, RESPECTIVELY.	d. FAILU e. FAILU
15.	THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM ALL EXISTING DRIVEWAYS, SIDEWALKS AND ADA ACCESS ROUTES, AND SIDE STREETS AND CROSS STREETS AT ALL TIMES.	
16.	THE CONTRACTOR SHALL REFERENCE TO THE SATISFACTION OF THE DISTRICT ENGINEER, ALL EXISTING TRAFFIC SIGNS, POSTS, AND PAVEMENT MARKINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNS, POSTS, AND PAVEMENT MARKINGS DISTURBED BY HIS ACTIVITIES UNLESS DIRECTED OTHERWISE BY THE DISTRICT ENGINEER OR HIS REPRESENTATIVE.	
17.	CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) FOR EROSION AND SILT CONTROL FOR WORK WITHIN THE STATE R/W. SITE-SPECIFIC BMP PLAN SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW AND ACCEPTANCE.	
18.	THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHT, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS". IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.	
19.	ALL REGULATORY, GUIDE AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH INTENSITY REFLECTIVE SHEETING.	
20.	EXISTING DRAINAGE SYSTEM WILL BE FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL FURNISH MATERIALS, EQUIPMENT, LABOR, AND TOOLS TO MAINTAIN FLOW.	
21.	THE MINIMUM PAVEMENT STRUCTURE SHALL CONSIST OF:	
	<ul> <li>a. COMMERCIAL DRIVEWAYS, SIDE ROADS AND UTILITY INSTALLATIONS ON STATE HIGHWAYS</li> <li>i. 4" HMA PAVEMENT, MIX NO. IV OVER 8" AGGREGATE BASE OVER 12" AGGREGATE SUBBASE; OR 4" HMA PAVEMENT MIX NO. IV OVER 8" ASPHALT CONCRETE BASE OR HMA PAVEMENT MIX NO. IV.</li> <li>ii. 6" OF CLASS "A" CONCRETE REINFORCED WITH 6"X6" - 6/6 WIRE MESH OVER 12" AGGREGATE SUBBASE, IF DEEMED NECESSARY BY THE ENGINEER.</li> <li>b. RESIDENTIAL DRIVEWAYS</li> </ul>	
	<ul> <li>i. 2" HMA PAVEMENT MIX NO. IV OVER 6" AGGREGATE BASE; OR 2" HMA PAVEMENT MIX NO. IV OVER 2-1/2" ASPHALT CONCRETE BASE OR HMA PAVEMENT MIX NO. IV.</li> <li>ii. 4" OF CLASS "A" CONCRETE REINFORCED WITH 6"X6" - 6/6 WIRE MESH OVER 12" AGGREGATE SUBBASE, IF DEEMED NECESSARY BY THE ENGINEER.</li> </ul>	

#### FOR CONSTRUCTION WITHIN **RIGHT-OF-WAY (CONT)**

N TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE SPECIFICATIONS FOR INSTALLATION OF EOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, AS FOLLOWS:

ASE: ONE (1) COMPACTION TEST(S) PER LIFT, FOR EVERY 300 LINEAL FEET OF TRAVEL WAY. COURSE: ONE (1) COMPACTION TEST(S) PER LIFT, FOR EVERY 300 LINEAL FEET OF TRAVEL WAY. ) COMPACTION TEST(S) PER LIFT, FOR EACH 300 LINEAL FEET OF TRENCH. OF ALL TEST RESULTS SHALL BE PROVIDED TO THE CONSTRUCTION ENGINEER FOR REVIEW CCEPTANCE.

DING CONNECTIONS SHALL BE CONSTRUCTED AT ALL LIMITS OF NEW PAVEMENT, INCLUDING IING AND END OF PROJECT, CONNECTING APPROACHES, SIDE STREETS, AND DRIVEWAYS AS THE PLANS.

OMMENCING TRENCH EXCAVATION WORK, THE CONTRACTOR SHALL TAKE A PROFILE ALONG ENTERLINE OF UTILITY TRENCH AND THAT SUCH INFORMATION SHALL BE USED IN THE ON OF RESTORING THE ROADWAY TO ITS ORIGINAL CONDITION. A COPY OF THE PROFILE SHALL ED TO THE CONSTRUCTION ENGINEER.

ACTOR SHALL THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NONSKID ATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO TYPES OF VEHICULAR TRAFFIC.

SHALL BE OPENED MORE THAN 200 FEET IN ADVANCE OF THE INSTALLED AND TESTED PIPE CT LINE.

ACTOR SHALL EXERCISE CARE WHEN EXCAVATING IN AREAS WITH UTILITIES, STREETLIGHTS, C. DAMAGE TO THESE EXISTING FACILITIES SHALL BE IMMEDIATELY REPORTED TO THE EUTILITY COMPANIES, COUNTY, OR STATE AGENCY. THE REPAIR WORK SHALL BE DONE AT THE OR'S EXPENSE.

STRIPING AND MARKING SHALL BE PERFORMED BY CONTRACTOR AT NO COST TO THE STATE. ASTIC EXTRUSION ONLY IS ACCEPTABLE FOR STRIPING.

ACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE USE AND DURATION OF STEEL PLATES. PLATES SHALL HAVE A NON-SKID SURFACE. THE STATE MAY REQUIRE THE BACKFILLING AND OF THE TRENCH DUE TO THE EXCESSIVE USE OF STEEL PLATES. WHEN PERMITTED, ONLY ONE E SHALL BE USED WITHIN THE TRAVEL WAY AT ANY TIME.

THAT DISRUPTS, DAMAGES, OR DESTROYS EXISTING TRAFFIC LOOP DETECTORS SHALL BE WITH RE-ESTABLISHMENT OF THE TRAFFIC LOOPS BEFORE REOPENING THE LANES TO TRAFFIC. ACTOR MAY ALSO USE TEMPORARY POLE MOUNTED PRESENCE DETECTORS TO REPLACE ANY EN OUT OF SERVICE. THE COST FOR THE TEMPORARY DETECTORS SHALL BE BORNE BY THE

(S THAT ARE DISTURBED OR DESTROYED SHALL BE RESTORED UNDER A LICENSED LAND S DIRECTION. COPIES OF FIELD NOTES, DESCRIPTIONS AND NEW VALUES OF THE NEW SHALL BE SENT TO THE STATE HIGHWAYS DIVISION FOR REVIEW AND APPROVAL PRIOR TO PTANCE OF THE PROJECT.

ACTOR SHALL PROVIDE THE DISTRICT ENGINEER WITH AS-BUILT PLANS UPON COMPLETION OF DONE IN THE STATE RIGHT OF WAY. THIS SHALL BE DONE PRIOR TO THE DEPARTMENT'S THE PERFORMANCE BOND.

TO PERFORM WORK UPON THE STATE HIGHWAYS MAY BE REVOKED BECAUSE OF DEFAULT IN FOLLOWING:

PERFORMED BEFORE OR AFTER PERMITTED HOURS;

- RE TO MAINTAIN ROADWAY SURFACES IN A SMOOTH AND SAFE CONDITION;
- RE TO CLEAN UP CONSTRUCTION DEBRIS GENERATED FROM PROJECT WORK;
- RE TO PROVIDE PROPER TRAFFIC CONTROL;

RE TO REPLACE DAMAGED PAVEMENT MARKERS, MARKINGS, AND SIGNS.

### ABBREVIATIONS

∆/2

AC

ALT

ANSI

ARV

R

BC

BL

BLK

BMP

BOT

BS

ΒV

BVC

BW

CB

CC

CI

CIG

C.J.

С

CL

CLR

CMU

CMP

CO

COI

CRM CTR

CV

CY

DI DIP

DEFL

DIST

DOW

DPW

DR

DSL

DTL

DWS

DWY

FF

EMT

EQ

EVC

EW

FC

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FFE FH

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FTG GA

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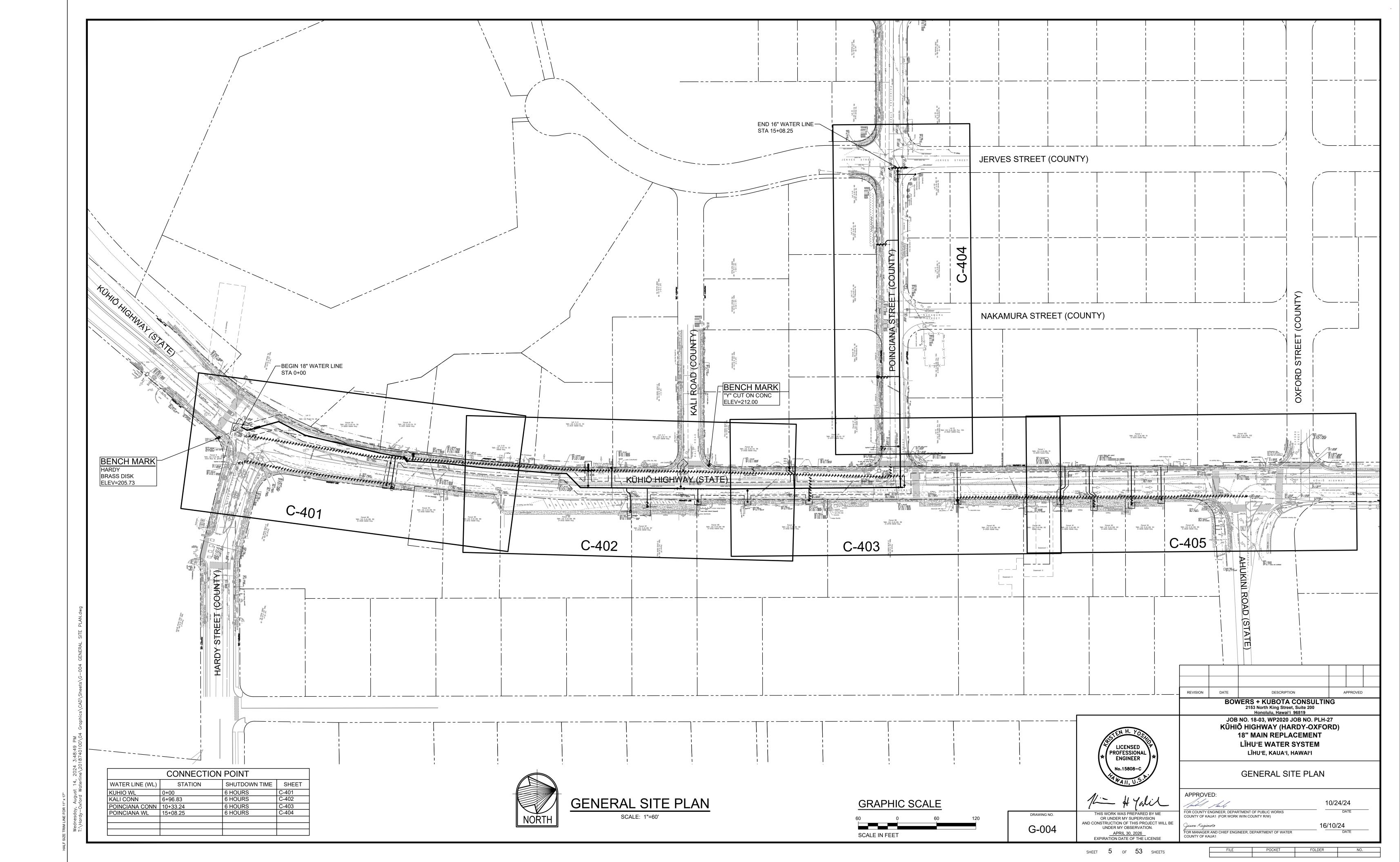
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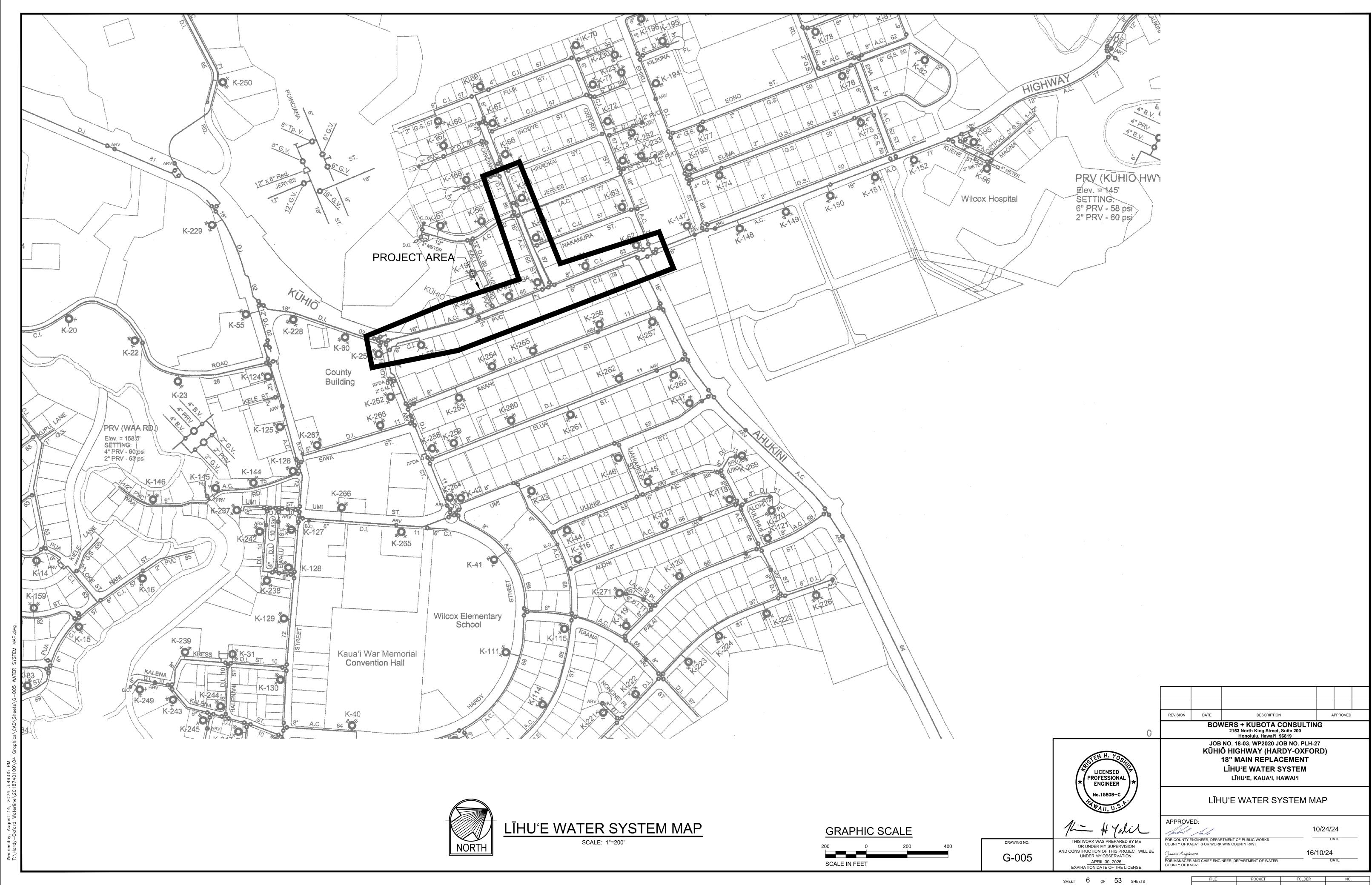
ANGLE HALF ANGLE AT ABAND ABANDONED ASPHALTIC CONCRETE, ASBESTOS CEMENT A/CME ASBESTOS CEMENT ALTITUDE AMERICAN NATIONAL STANDARDS INSTITUTE APPROX APPROXIMATE AIR RELIEF VALVE ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS BOTTOM BOTTOM OF CURB BASE LINE BLOCK BLDG BUILDING BEST MANAGEMENT PRACTICE BOTTOM BOTTOM OF SWALE BOTTOM VERTICAL **BEGIN VERTICAL CURVE** BOTTOM OF WALL CATCH BASIN COMPRESSION COUPLING CFU/ML COLONY FORMING UNITS PER MILLILITER CH, Ch CHORD CAST IRON CHANGE IN GRADE CONSTRUCTION JOINT, CONTROL JOINT CENTER LINE CENTER LINE, CLASS, CLEAR CLSM CONTROLLED LOW STRENGTH CONCRETE CLEAR CONCRETE MASONRY UNIT CORRUGATED METAL PIPE CLEANOUT CURB OPENING INLET CONC CONCRETE CONNECT, CONNECTION CONN CONT CONTINUATION CORP CORPORATION CONCRETE RUBBLE MASONRY CENTER CONTROL VALVE CUBIC YARD DEFLECTION DUCTILE IRON DUCTILE IRON PIPE DIA, DIAM, Ø DIAMETER DISTANCE DEPARTMENT OF WATER DEPARTMENT OF PUBLIC WORKS DOOR DOUBLE SERVICE LATERAL DETAIL DRAWINGS DWGS DEPARTMENT OF WATER SUPPLY DRIVEWAY EASTING EACH FACE ELEV, EL ELEVATION EMERGENCY MEDICAL TECHNICIAN EOP, EP EDGE OF PAVEMENT EQUAL END VERTICAL CURVE EACH WAY EXISTING EXIST, E/ EXISTING UNDERGROUND ELECTRICAL E-UG FLANGED CONNECTION FLANGED END FINISHED FLOOR ELEVATION FIRE HYDRANT FEMALE IRON PIPE THREAD FLANGED FEET FOOTING GAUGE GALVANIZED GALV GRATED DRAIN INLET GALVANIZED IRON GROUTED RUBBLE PAVEMENT GATE VALVE HEIGHT, HORIZONTAL HAWAI'I ADMINISTRATIVE RULES HOSE BIBB HDOT HAWAI'I DEPT. OF TRANSPORTATION HIOSH HAWAI'I OCCUPATIONAL SAFETY AND HEALTH HOT MIX ASPHALT HORIZ HORIZONTAL HIGH POINT HETEROTROPHIC PLATE COUNT HTCO, HT HAWAIIAN TELCOM HYDRANT INTERNATIONAL BUILDING CODE IRRIGATION CONTROL VALVE INSIDE DIAMETER, IDENTIFICATION INCHES INVERT IRON PIPE THREAD IRRIGATION INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION

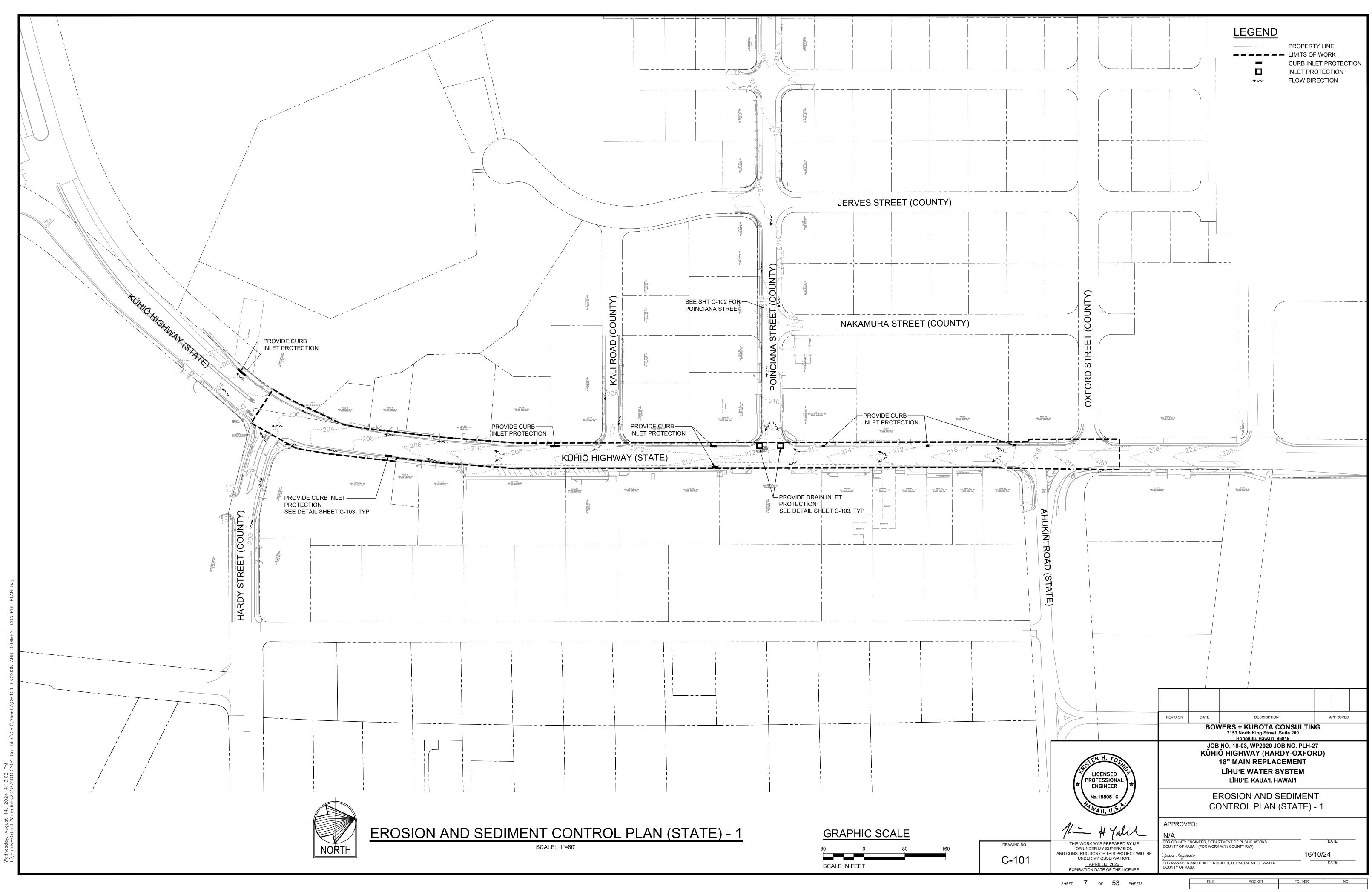
	~ ~ ~	APRIL 30, 2026 EXPIRATION DATE OF THE LICENSE	FOR MANAGER AND COUNTY OF KAUA'I			FOLDER		NO	
	G-003	OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BI UNDER MY OBSERVATION. APRIL 30, 2026	= Jason Kagimoto	`	GINEER, DEPARTMENT OF WATE		6/10/24		_
1	DRAWING NO.				ARTMENT OF PUBLIC WORKS RK W/IN COUNTY R/W)		DA	ΓE	_
		11- Hyalit	APPROVED:	:					
		WAII, U.S.F		LEG	SEND, AND AB	BKEVIAI	IONS		
WV	WATER VALVE	No.15808-C			ONSTRUCTIO				
WT	WEIGHT	* ENGINEER *		-			~		
WM WMH	WATER METER WATER METER WATER MANHOLE				LĪHU'E WATER LĪHU'E, KAUA'I,				
WL WLAT	WATER LINE WATER LATERAL	ASTEN H. YOSH			18" MAIN REPL	ACEMENT	1		
W1"	WATER LINE WITH DIAMETER SHOWN				в NO. 18-03, WP2020 IŌ HIGHWAY (НА				
W W/	WIDE WITH	<b>F</b>			2153 North King Stre Honolulu, Hawai	ʻi 96819			
VERT	VERTICAL CURVE				⊥ WERS + KUBOTA	CONSULT			
VB VC	VALVE BOX		REVISION	DATE	DESCRIPT	ION		PROVED	
UP V	UTILITY POLE VENT								
TW TYP	TOP OF WALL TYPICAL		[]				<u> </u>		
TS TV	TRAFFIC SIGNAL TOP VERTICAL								
TP TRANS	TOP OF PAVEMENT TRANSITION								
ТМК	TAX MAP KEY								
TG THK	TOP OF GROUND THICK								
тс	TOP OF CURB								
SYMM T	SYMMETRIC TOP, TANGENT								
SXSXS SXT	SOCKET X SOCKET X SOCKET X THREAD	SUCKET							
SXS	SOCKET X SOCKET	SOCKET							
STD STRUCT	STANDARD STRUCTURAL								
ST STA	STREET STATION								
SST	STAINLESS STEEL								
SSL SSPC	SINGLE SERVICE LATE								
SQ SS	SQUARE STAINLESS STEEL								
SPT	STANDARD PENETRA	TION TESTS							
SOS SPEC	SAVE OUR SHEARWA	TERS							
SHT SMH	SHEET SEWER MANHOLE								
SDWA	STORM DRAIN MANHO								
S/W SDMH	SIDEWALK								
S SF, SQ FT	SLOPE, SOCKET SQUARE FEET								
RW	RESILIENT WEDGE								
RT	MARKERS								
RP RPM	RADIUS POINT REFLECTIVE PAVEME	NT							
ROW, R/W	RIGHT-OF-WAY								
REINF REQ'D	REINFORCED								
RCP RD	REINFORCED CONCRI ROAD	ETE PIPE							
RC	REINFORCED CONCRI		<ul> <li>4</li> <li>4</li> <li>4</li> </ul>		NEW CONCRETE JA	CKET			
PT R	POINT OF TANGENCY RADIUS		i						
PSI PVC	POUNDS PER SQUARE POLYVINYL CHLORIDE	Ē	⊢ ŗ →		NEW TEE				
PRV	PRESSURE REDUCING	G VALVE			NEW REDUCER				
PL POC	PROPERTY LINE POINT OF CONNECTIO	DN	8		NEW GATE VALVE				
	VERTICAL CURVE		- <b>今</b>		NEW HYDRANT				
PE PIVC	PLAIN END POINT OF INTERSECT	ION	ـــــــــــــــــــــــــــــــــــــ						
PC	POINT OF CURVATUR		o <b></b> · ·		NEW CLEANOUT				
OSHA	OCCUPATIONAL SAFE		<b>_</b>		NEW AIR RELIEF VA	LVE			
o/s OHW	OFFSET OVERHEAD WIRE		<b></b>		NEW WATER METER	R BOX AND LA	TERAL		
OC OD	ON CENTER OUTSIDE DIAMETER	-	<b>—</b> … <b>—</b> W16" <b>—</b> …	_	NEW WATER LINE				
NSF	NATIONAL SANITATIO				EASEMENT LINE				
NPDES	NATIONAL POLLUTAN ELIMINATION SYSTEM				PROPERTY LINE				
NO, # NOI	NUMBER NOTICE OF INTENT								
	PERMIT COVERAGE	-			EDGE OF PAVEMEN	IT			
NC NGPC	NORMALLY CLOSED NOTICE OF GENERAL		<b>+</b>		BENCH MARK				
N N/A	NORTHING NOT APPLICABLE	-	- · · /-/ · /-/• · /-/• ·	_	EXISTING WL TO BE	REMOVED			
	SERVICE LATERAL		$\times$ · $-\times$ · · $\times$	Х	EXISTING WL TO BE	ABANDONED	) in plac	E	
MPT MSL	MALE PIPE THREAD MEAN SEA LEVEL / MU		SIGN		EXISTING SIGN				
MJ MPH	MECHANICAL JOINT MILES PER HOUR								
MIPT	MALE IRON PIPE THRE	EAD	□ MB	$\sim$	EXISTING MAILBOX				
MIL, MM MIN	MILLIMETER			$\sim$	EXISTING VEGETAT	ION			
MG MH	MILLION GALLON MANHOLE		<u> </u>	5553	EXISTING CMU WAL	L			
MAX MB	MAXIMUM MAILBOX	-	-xxxxxxxx	х—	EXISTING CHAIN-LII	NK FENCE			
LT LP	LEFT LOW POINT		-⊖ <sup>UP</sup>		EXISTING UTILITY F	OLE			
Lc LF	LENGTH OF CURVE		⊖ <sup>HYD</sup>		EXISTING HYDRAN	Г			
L LBS, #	LENGTH POUNDS				EXISTING WATER M	IETER AND LA	TERAL		
	COOPERATIVE	-	WV		EXISTING WATER V	ALVE			
KSI KIUC	KIPS PER SQUARE INC KAUA'I ISLAND UTILIT	СН –	-··-Е/W6"— ··-		EXISTING WATER L	INE			
JRS KDOW	JOINT RESTRAINT SYS KAUA'I DEPARTMENT		1088		EXISTING CONTOU	R AND ELEVA	TION		
		<u> </u>		—					

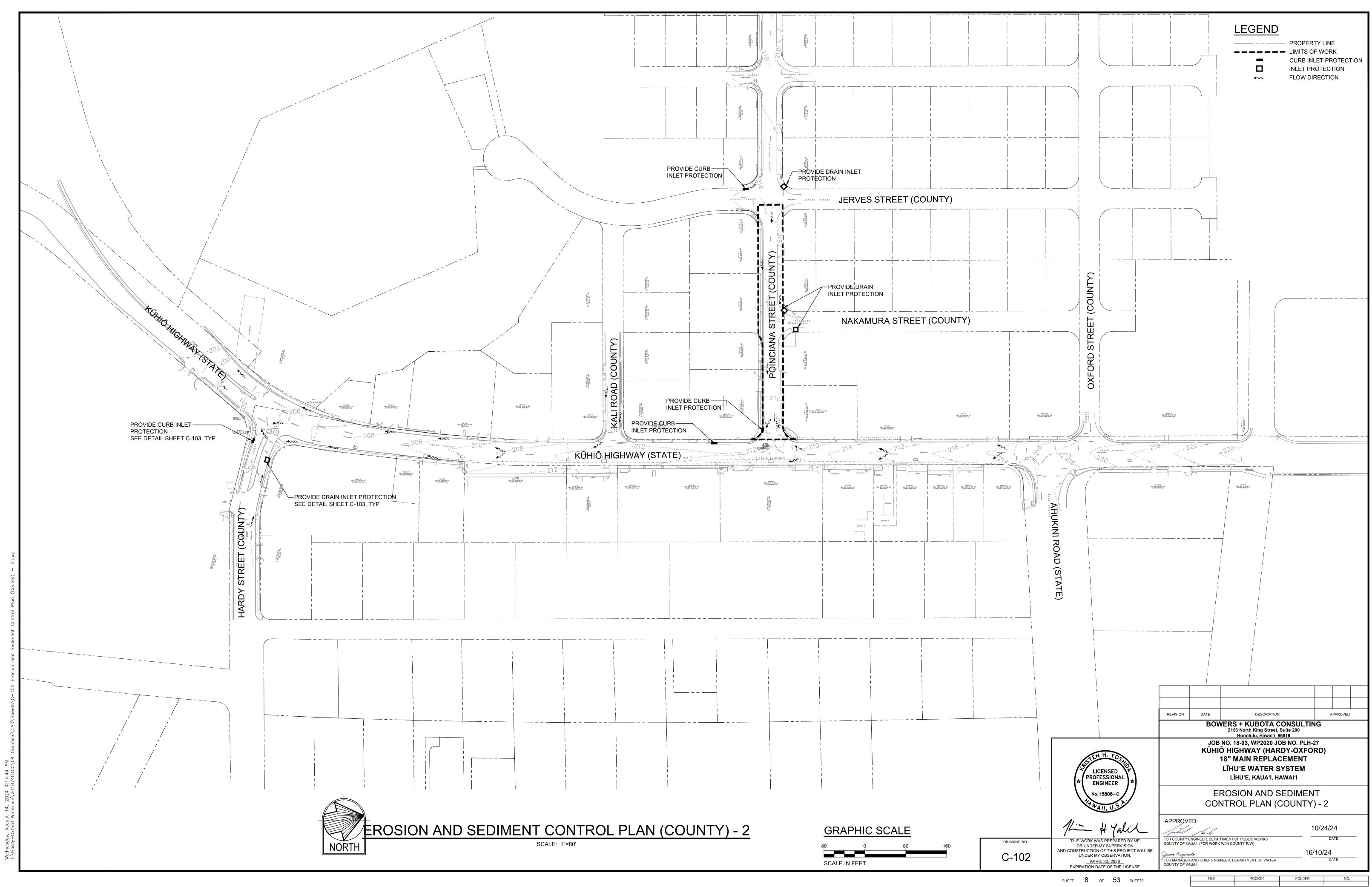
LEGEND

FILE POCKET FOLDER



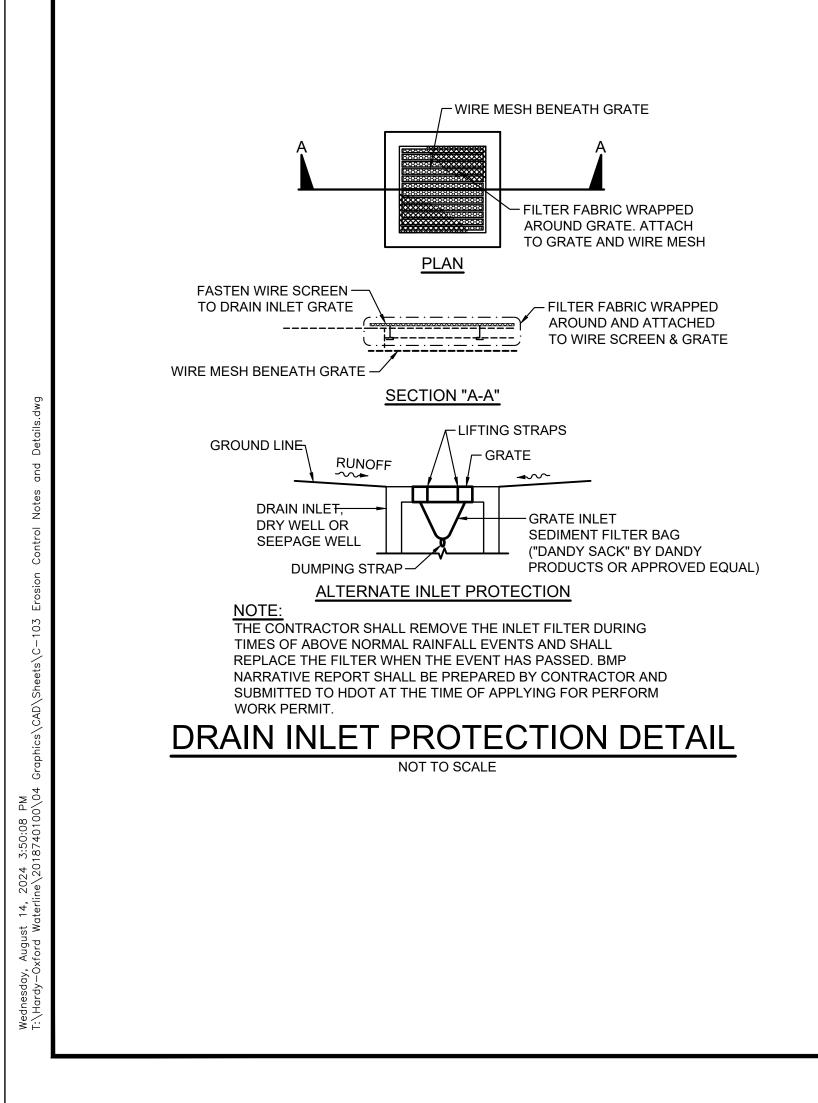


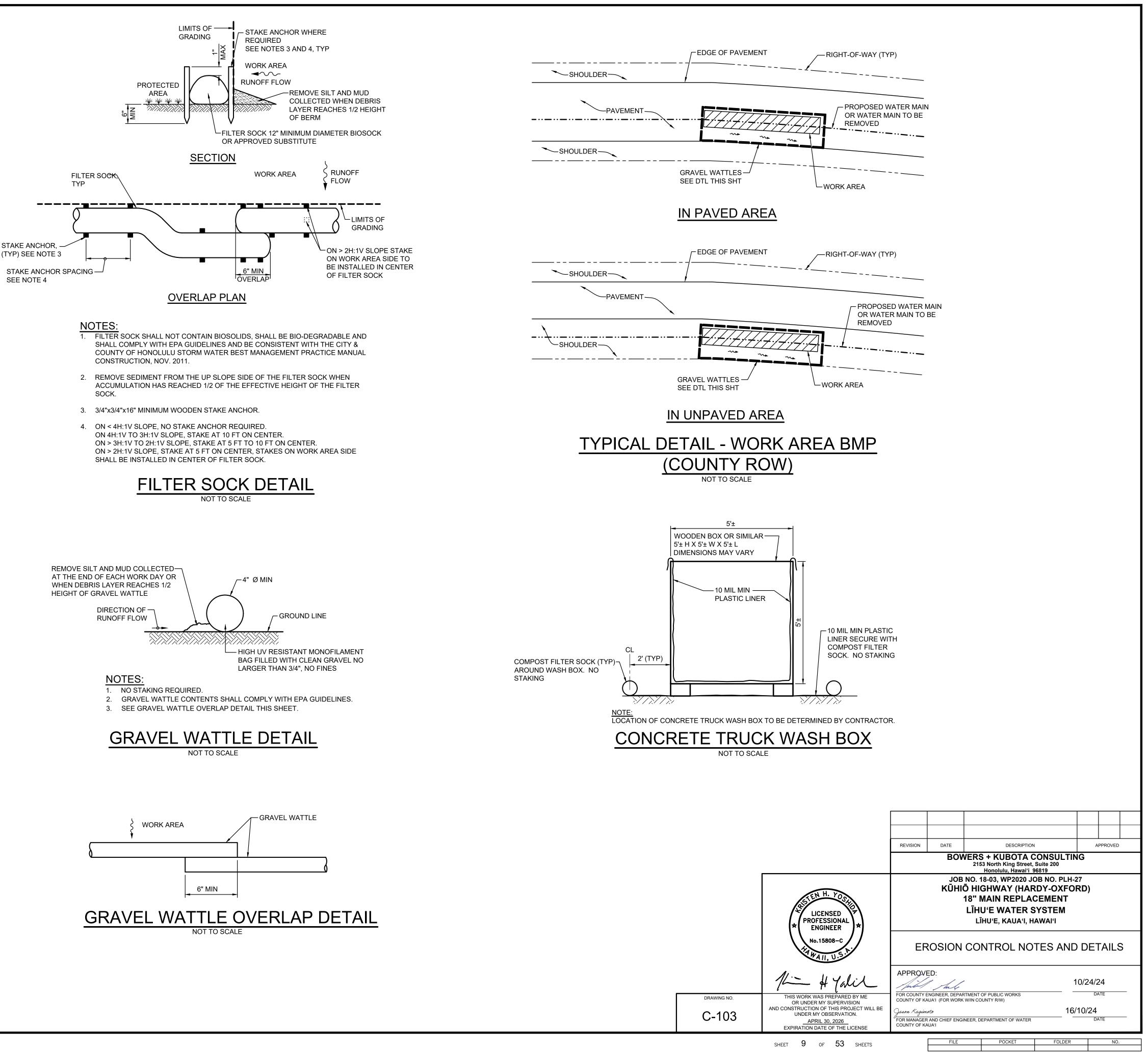


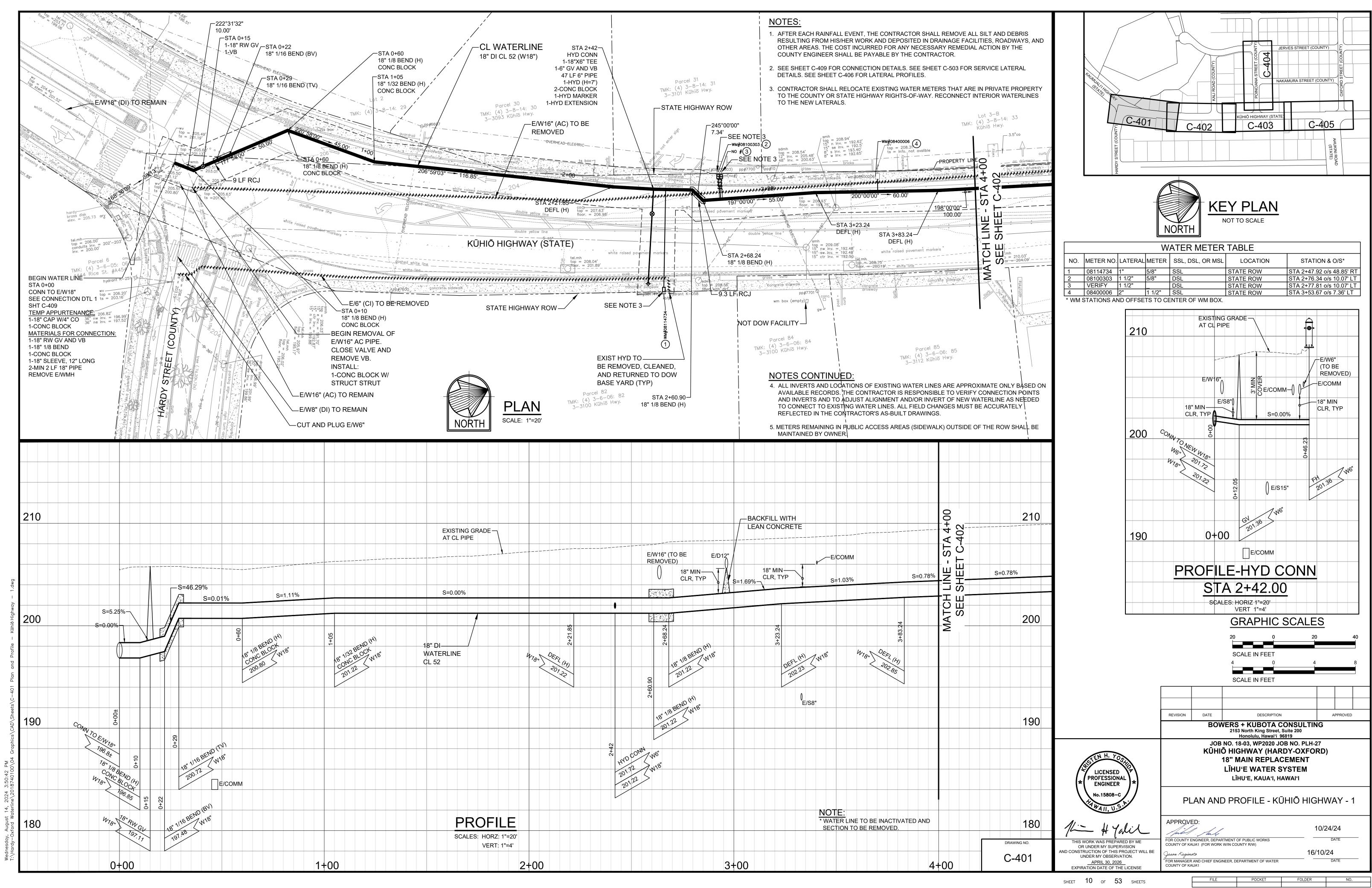


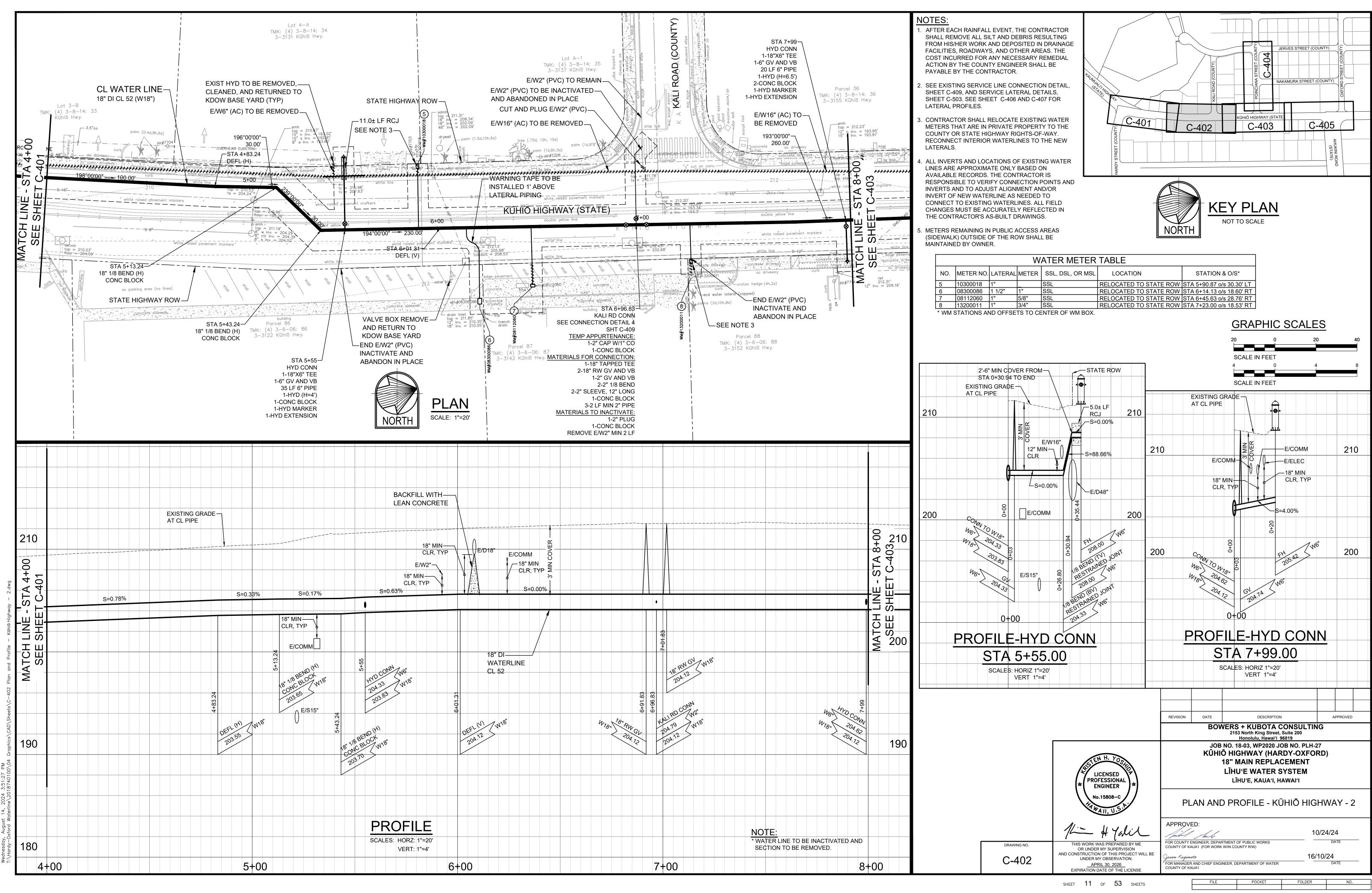
#### **EROSION CONTROL/BMP NOTES**

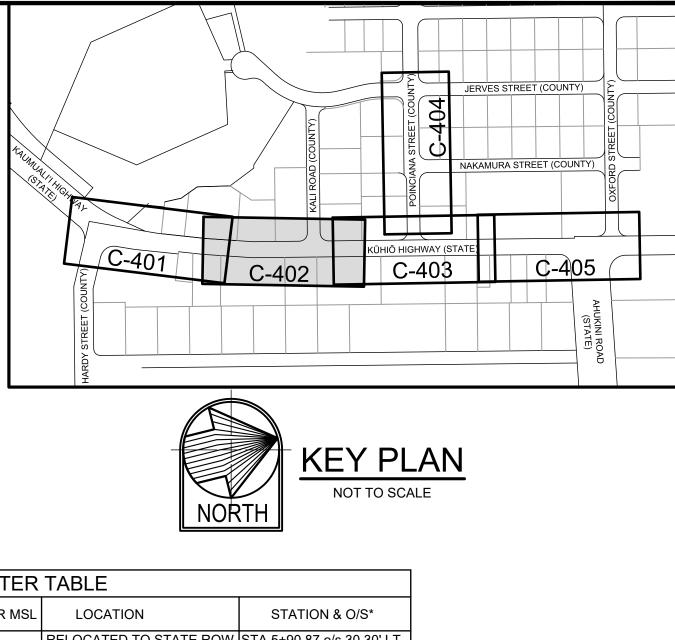
- 1. MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CONSTRUCTION WORK IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE ENTIRE PROJECT.
- 2. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- 3. INSTALL CURB INLET PROTECTION (GRAVEL WATTLES AND COMPOST FILTER SOCK) AS SHOWN ON THE PLANS. TEMPORARY BMPS MAY BE ADJUSTED TO FIT THE CONTRACTOR'S OPERATIONS.
- 4. ALL STORM DRAIN INLETS THAT MAY RECEIVE RUNOFF AS A RESULT OF THE CONSTRUCTION WORK SHALL USE AN INLET FILTER DEVICE. INLET FILTERS SHALL REMAIN UNTIL COMPLETION OF CONSTRUCTION WORK. CONTRACTOR SHALL PERIODICALLY INSPECT INLET FILTERS, ESPECIALLY DURING HEAVY RAINFALL, TO ENSURE DRAINAGE THROUGH MATERIAL IS MAINTAINED.
- 5. AT THE END OF THE CONSTRUCTION, EXISTING STORM DRAIN INLETS SURROUNDING THE PROJECT SITE SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE STORM DRAIN INLETS SHALL BE REMOVED. FLUSHING INTO THE STORM DRAINS IS PROHIBITED.
- 6. GOOD HOUSEKEEPING SHALL BE UTILIZED TO ENSURE PROTECTION OF ROADWAYS FROM MUD, DIRT. AND DEBRIS
- 7. THE CONTRACTOR SHALL ENSURE THAT ALL TIRES OF CONSTRUCTION VEHICLES ARE SUFFICIENTLY CLEANED OFF SO THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OF TIRES WITH WATER WILL NOT BE ACCEPTABLE UNLESS THE RUNOFF IS CONTAINED AND DOES NOT ENTER THE STORM DRAIN SYSTEM OR ONTO THE COUNTY'S ROW.
- 8. THE CONTRACTOR SHALL ENSURE THAT EXISTING ROADWAYS USED TO ACCESS THE PROJECT ARE CLEANED OF ALL DEBRIS, TRASH, DIRT, MUD, ETC., THROUGHOUT THE WORK DAY.
- 9. THE FINAL LIFT OF EACH DAY'S WORK SHALL BE COMPACTED TO PREVENT EROSION OF FILL MATERIAL.
- 10. ANY DIRT OR GRASSED AREA DISTURBED SHALL BE RESTORED BY SEEDED HYDRO-MULCH. CONTRACTOR TO ENSURE GRASS IS FULLY ESTABLISHED.
- 11. CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION EGRESS/INGRESS AS SHOWN ON THE PLANS. ALL VEHICLES EXITING THE SITE ARE TO BE SUFFICIENTLY CLEANED OFF SUCH THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. CONSTRUCTION EGRESS/INGRESS MAY BE ADJUSTED TO FIT THE CONTRACTOR'S OPERATIONS.
- 12. SEE EROSION CONTROL NOTES ON SHEET G-002 AND ENVIRONMENTAL NOTES, TEMPORARY DUST CONTROL MEASURES FOR GRADING, TEMPORARY EROSION CONTROL MEASURES FOR GRADING, ENVIRONMENTAL CONTROL NOTES FOR GRADING, AND PERMANENT EROSION CONTROL MEASURES FOR GRADING ON SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
- 13. THE EROSION CONTROL MEASURES AND BMPS THAT ARE REFLECTED ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR MAY INSTALL AND IMPLEMENT NEWER/BETTER PRODUCTS TO CONTROL AND PREVENT EROSION AND POLLUTANT LOSS FROM THE SITE.



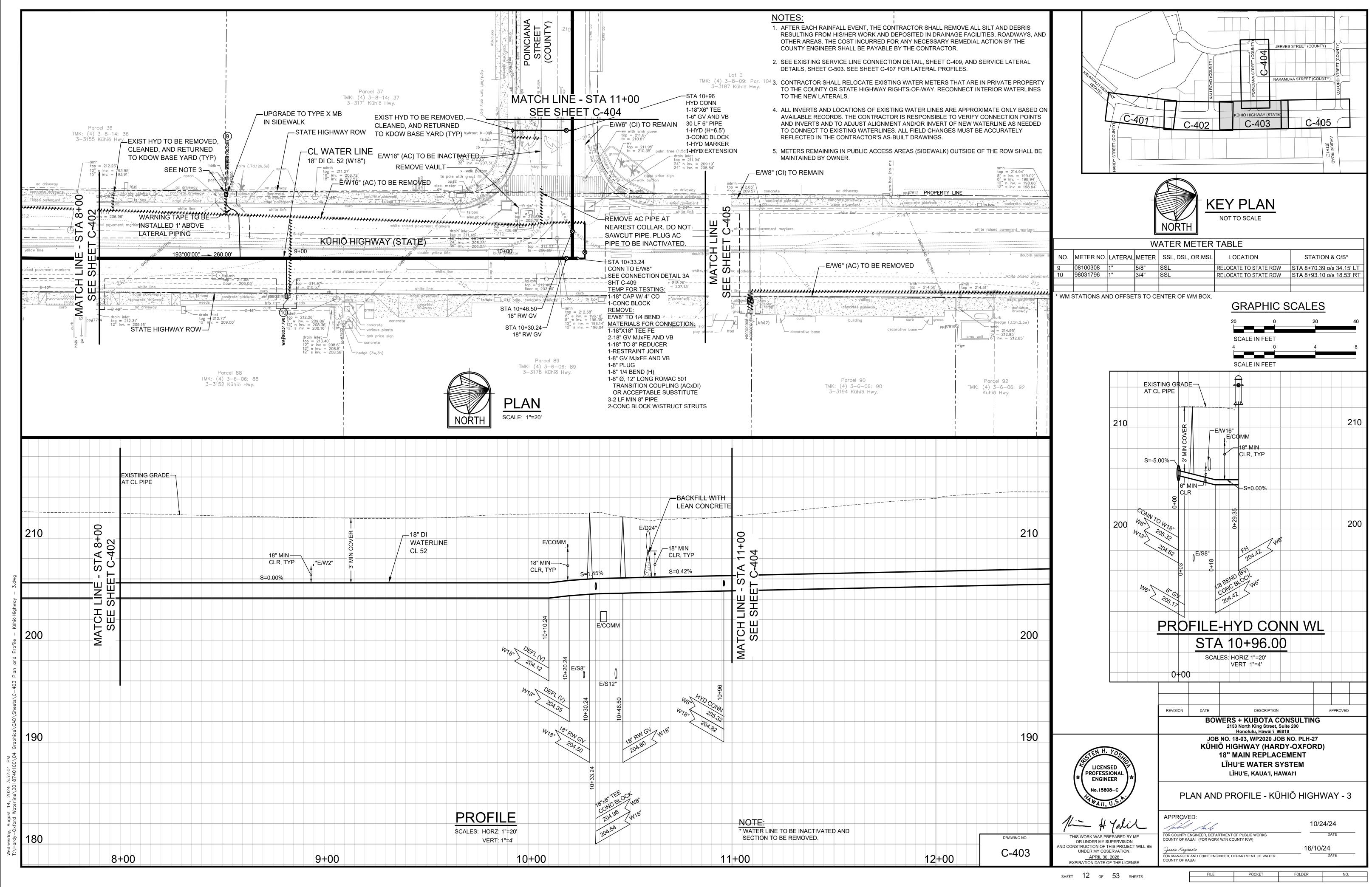




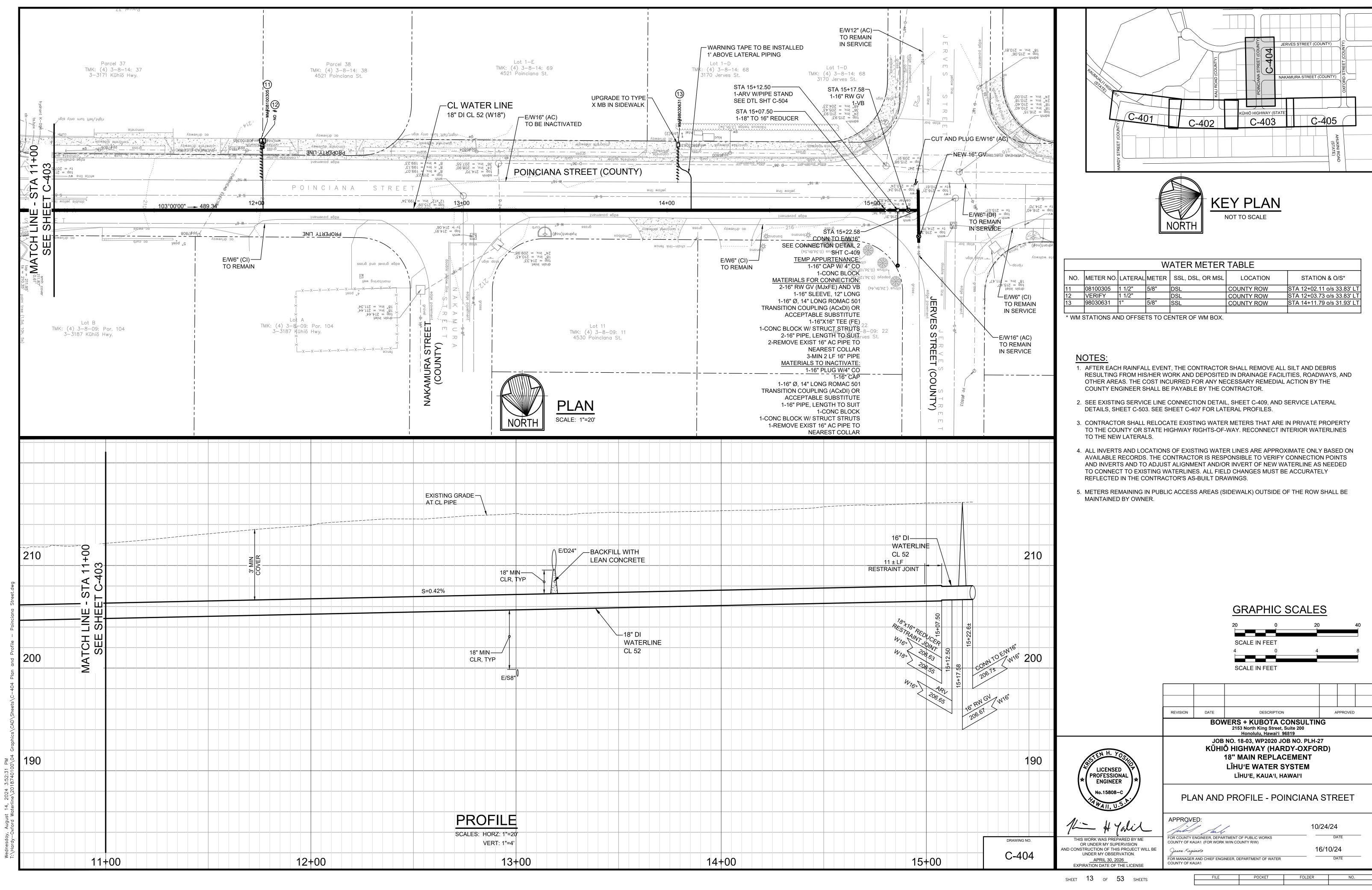




NO.	METER NO.	LATERAL	METER	SSL, DSL, OR MSL	LOCATION	STATION & O/S*				
5	10300018	1"		SSL	RELOCATED TO STATE ROW	STA 5+90.87 o/s 30.30' LT				
6	08300086	1 1/2"	1"	SSL	RELOCATED TO STATE ROW	STA 6+14.13 o/s 18.60' RT				
7	08112060	1"	5/8"	SSL	RELOCATED TO STATE ROW	STA 6+45.63 o/s 28.76' RT				
8	13200011	1"	3/4"	SSL	RELOCATED TO STATE ROW	STA 7+23.00 o/s 18.53' RT				
* \\/\/	WM STATIONS AND DEESETS TO CENTED OF WM BOY									

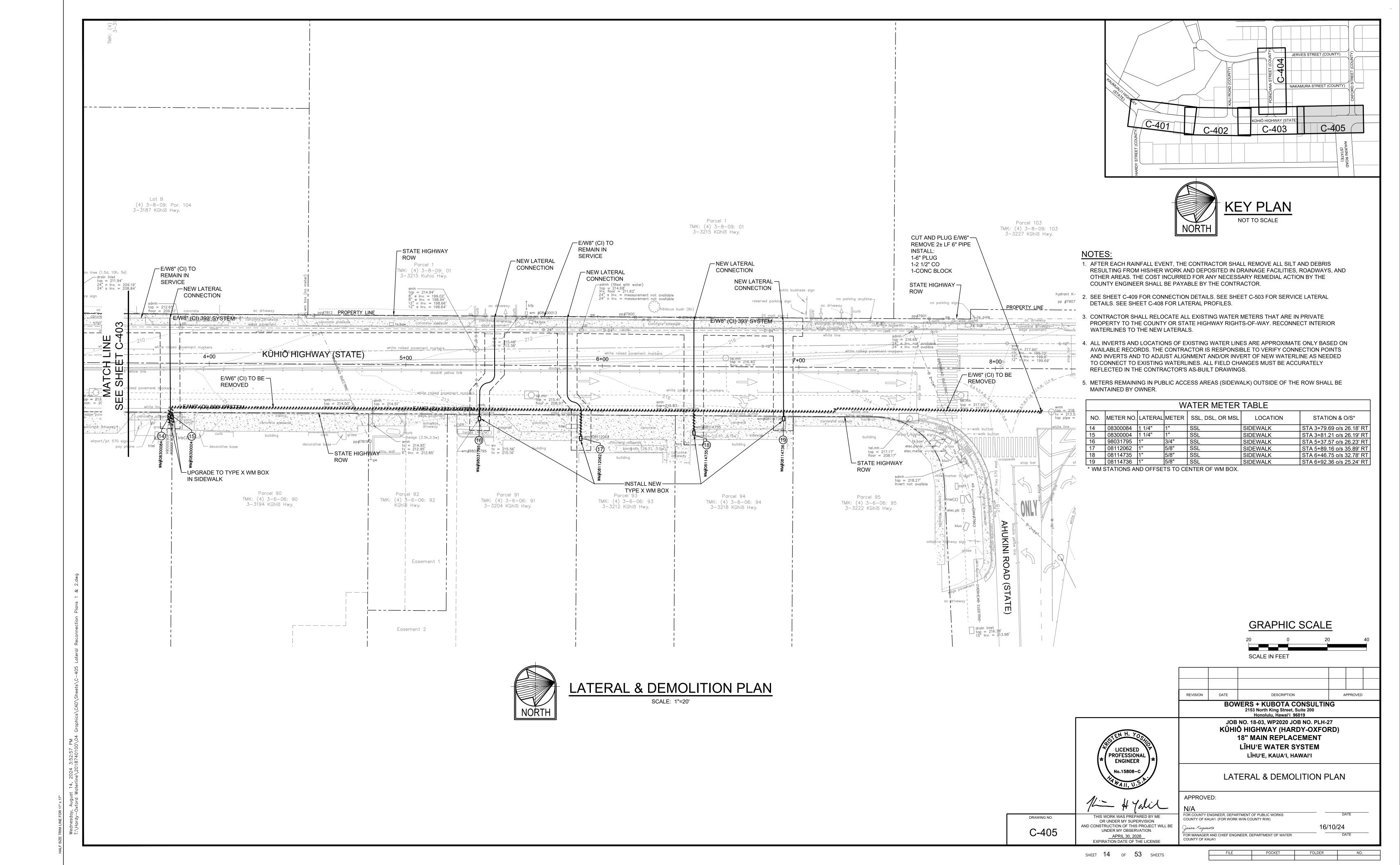


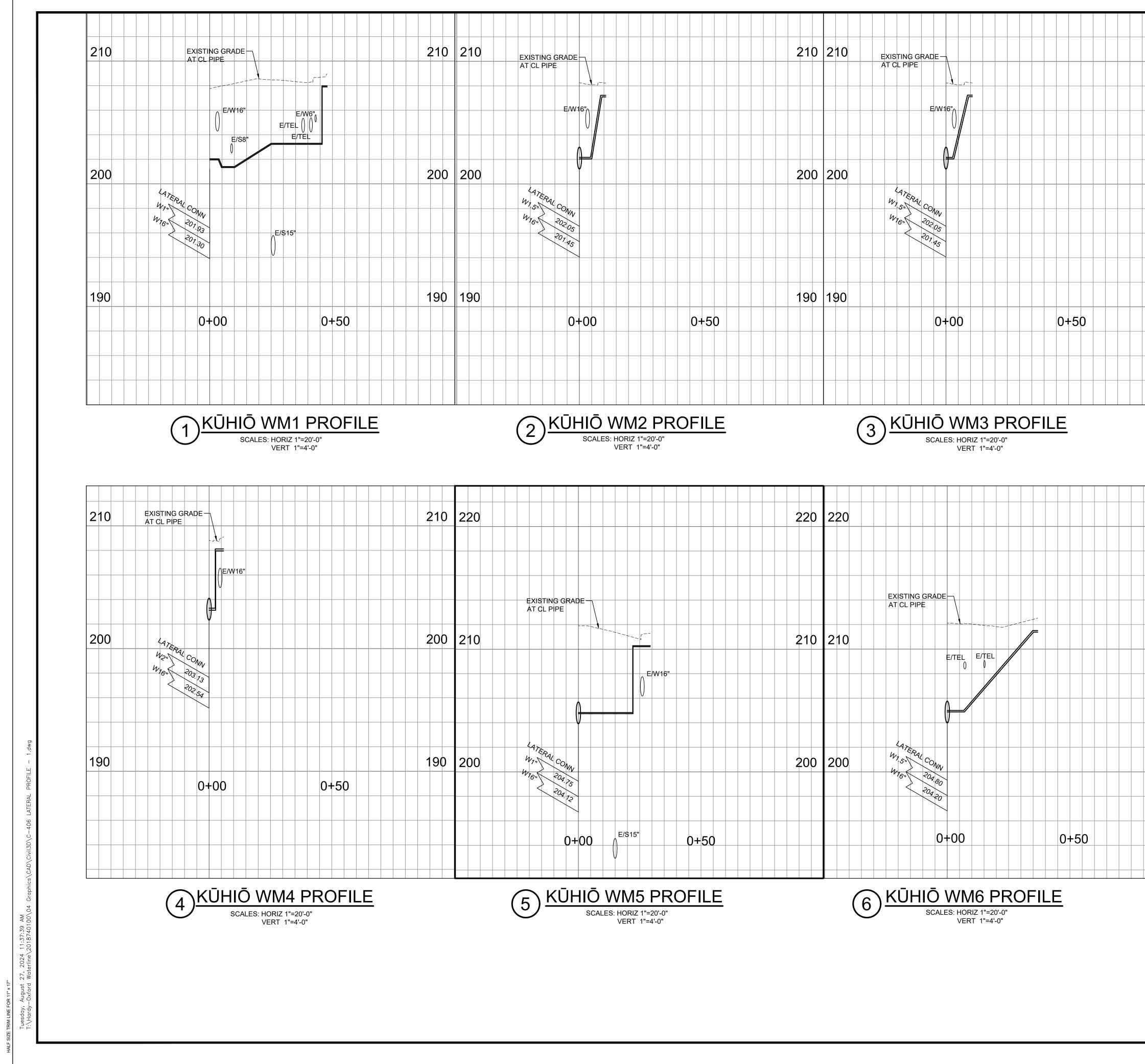
SIZE TRIM LINE FOR 11" × 17"

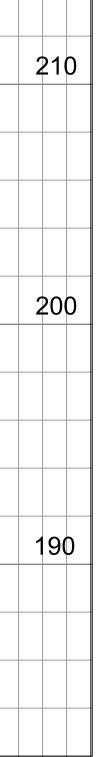


WATER METER TABLE									
	i								
NO.	METER NO.	LATERAL	METER	SSL, DSL, OR MSL	LOCATION	STATION & O/S*			
11	08100305	1 1/2"	5/8"	DSL	COUNTY ROW	STA 12+02.11 o/s 33.83' LT			
12	VERIFY	1 1/2"		DSL	COUNTY ROW	STA 12+03.73 o/s 33.83' LT			
13	98030631	1"	5/8"	SSL	COUNTY ROW	STA 14+11.79 o/s 31.93' LT			

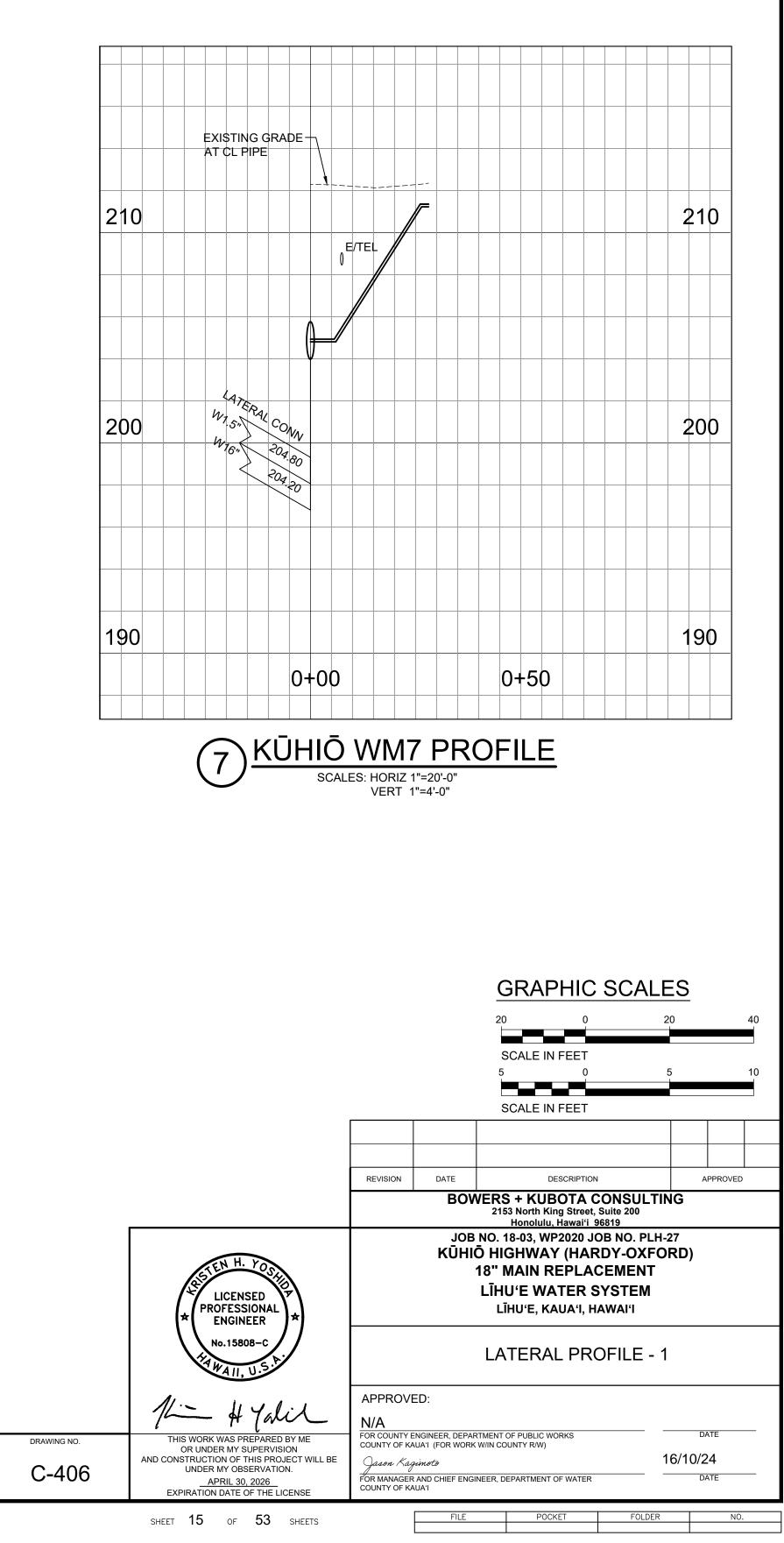
			20 SCALE	0	20 4	40 8		
	REVISION		2153 North Honolu	DESCRIPTION JBOTA CON King Street, Suite Ilu, Hawai'i 96819	200	APPROVED		
* LICENSED * PROFESSIONAL ENGINEER	JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHUʻE WATER SYSTEM LĪHUʻE, KAUAʻI, HAWAIʻI							
No.15808-C	PLAN AND PROFILE - POINCIANA STREE							
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	COUNTY OF KA Jason Kage	ENGINEER, DEPAR AUA'I (FOR WORK imoto R AND CHIEF ENGII	W/IN COUNTY R/W	/)	10/24/2 	DATE		

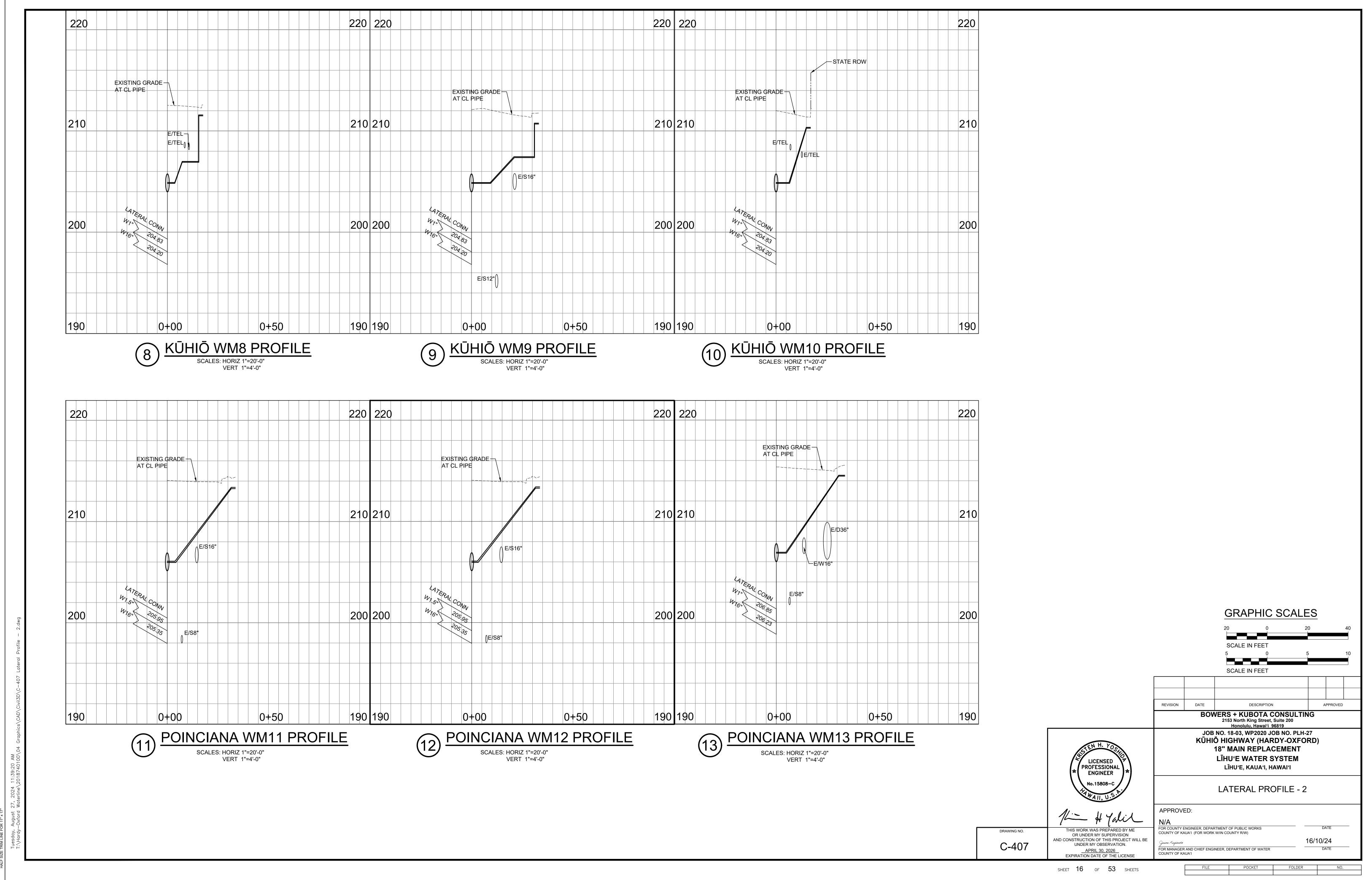




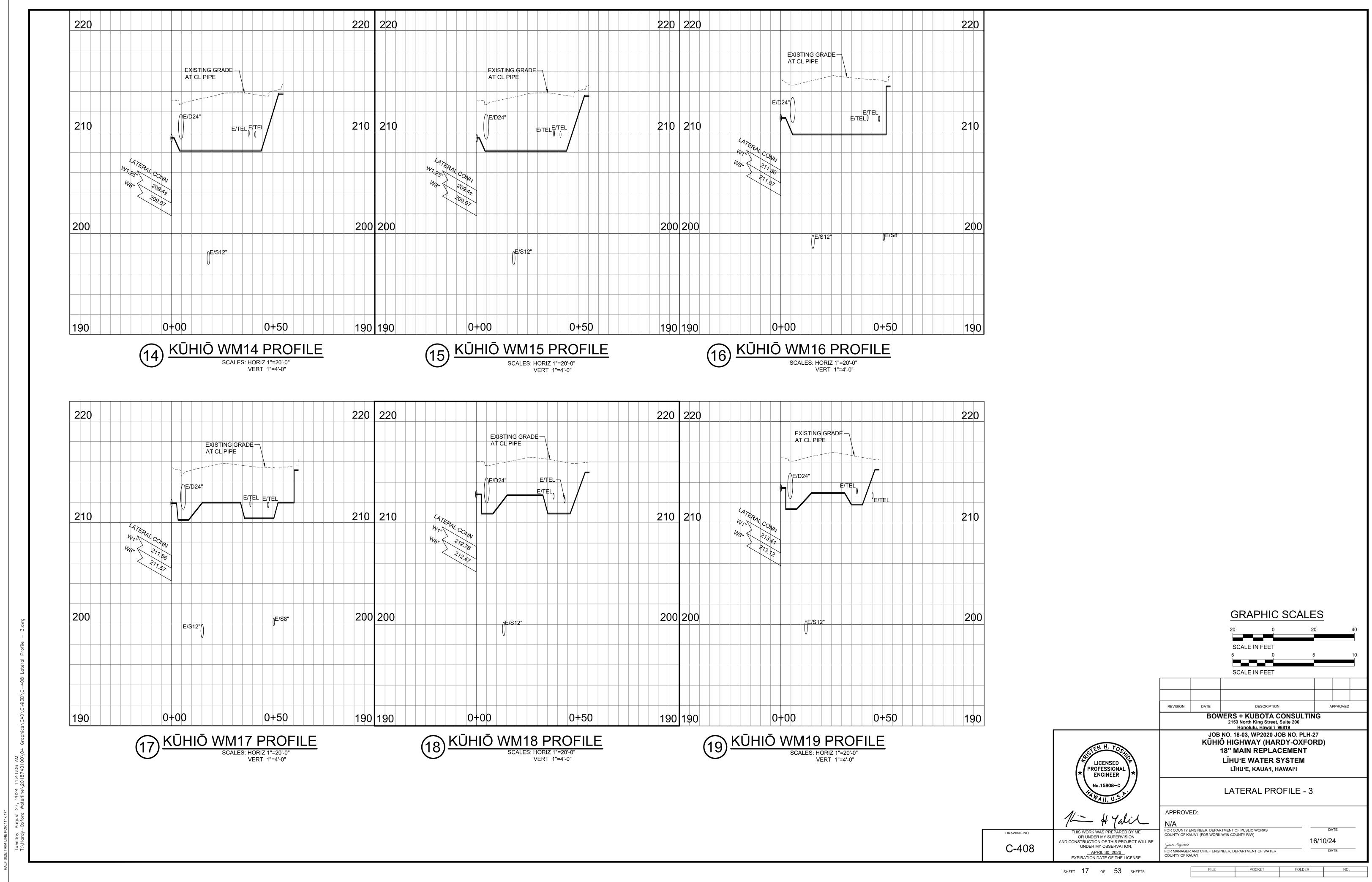




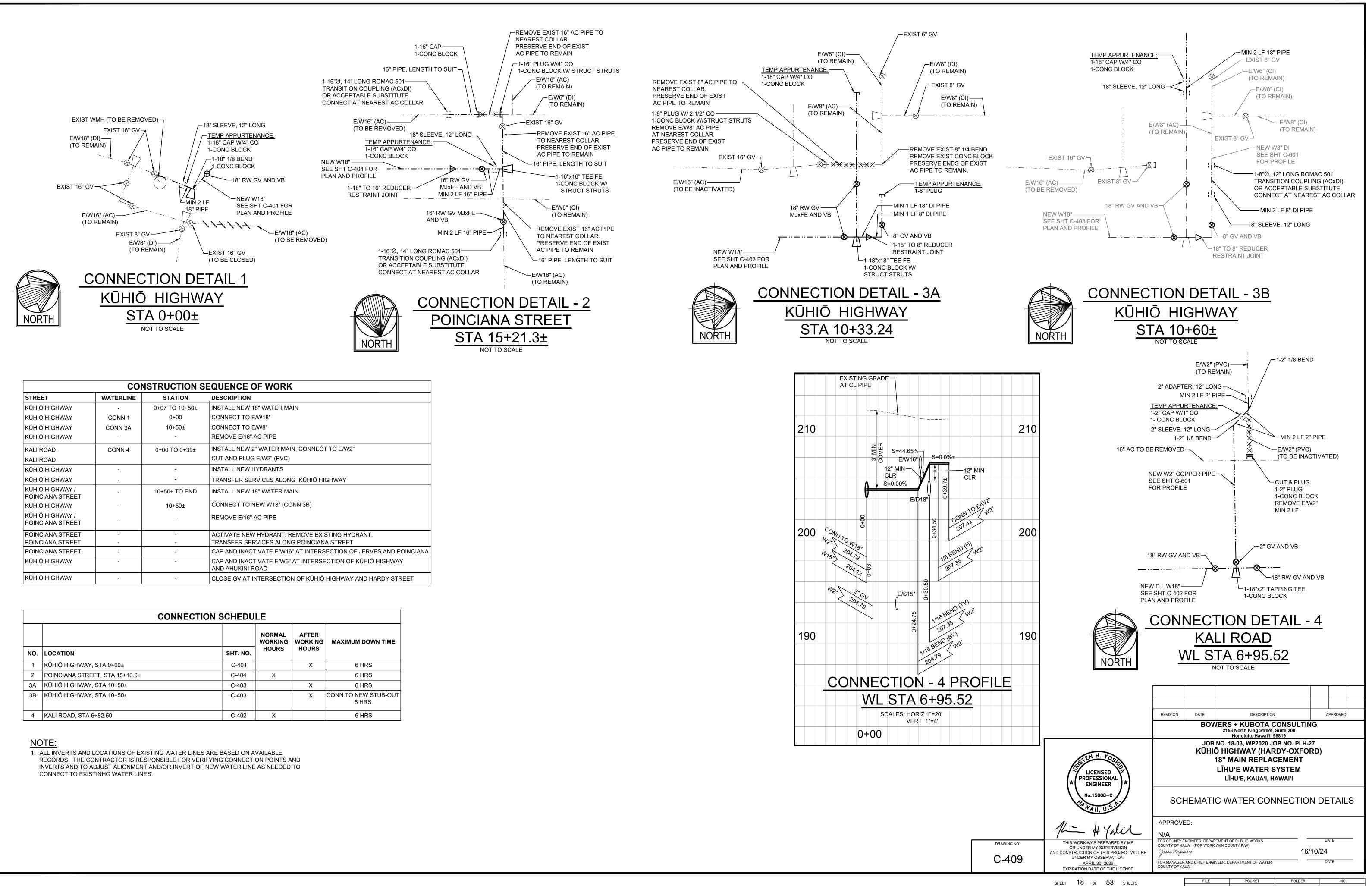




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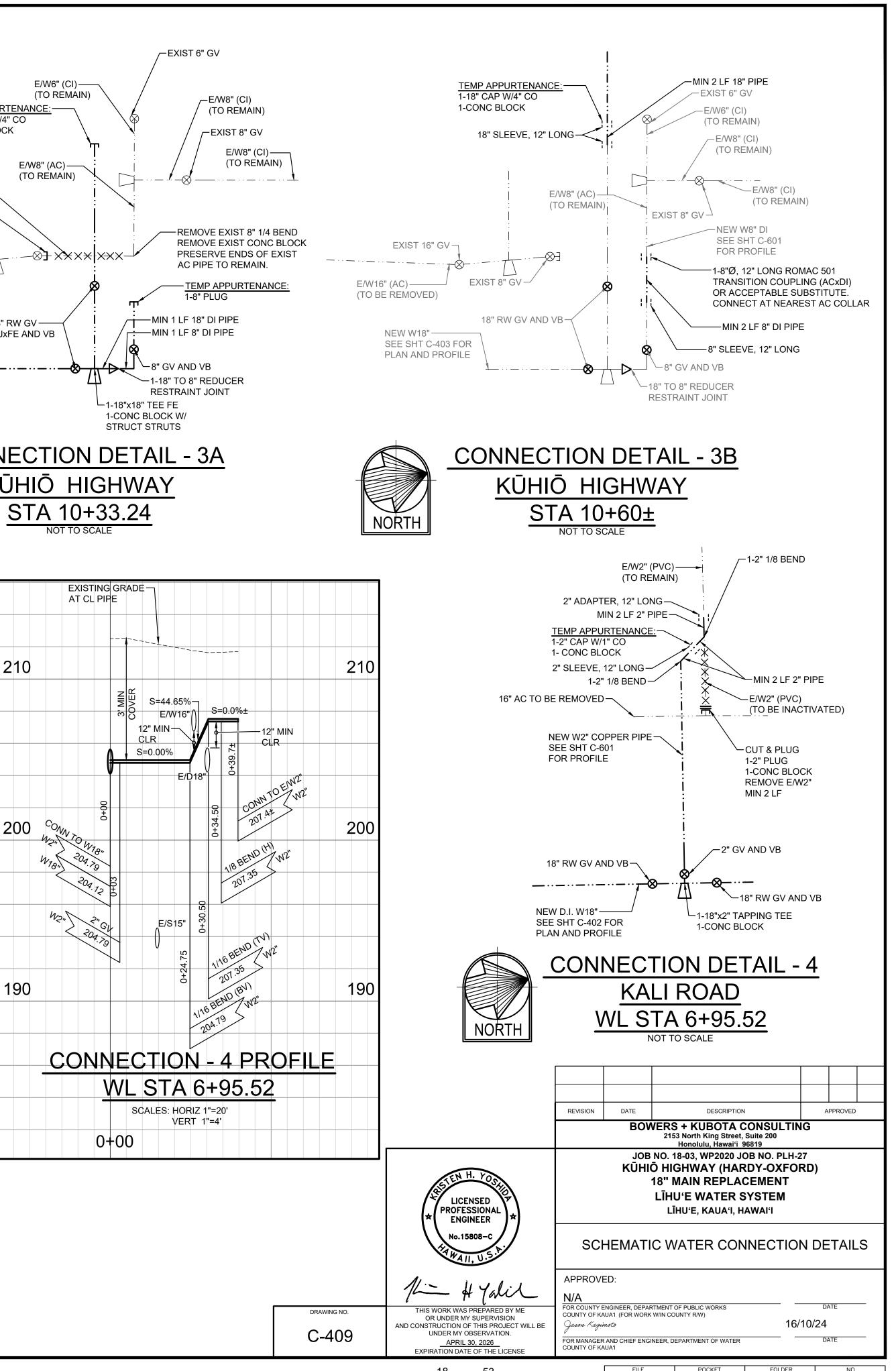
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	19	90	

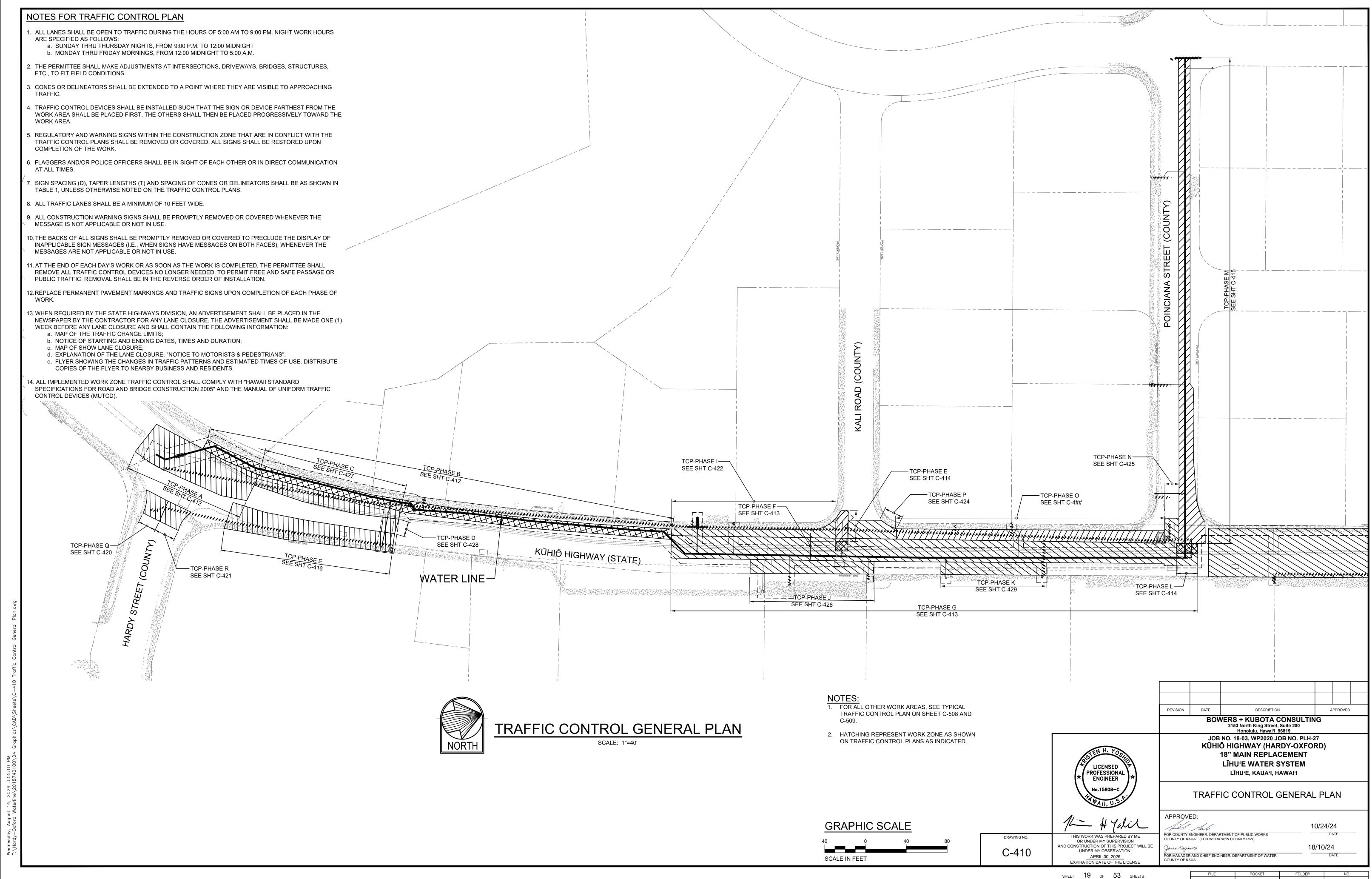


CONSTRUCTION SEQUENCE OF WORK							
STREET	WATERLINE	STATION	DESCRIPTION				
KŪHIŌ HIGHWAY	-	0+07 TO 10+50±	INSTALL NEW 18" WATER MAIN				
KŪHIŌ HIGHWAY	CONN 1	0+00	CONNECT TO E/W18"				
KŪHIŌ HIGHWAY	CONN 3A	10+50±	CONNECT TO E/W8"				
KŪHIŌ HIGHWAY	-	-	REMOVE E/16" AC PIPE				
KALI ROAD	CONN 4	0+00 TO 0+39±	INSTALL NEW 2" WATER MAIN, CONNECT TO E/W2"				
KALI ROAD			CUT AND PLUG E/W2" (PVC)				
KŪHIŌ HIGHWAY	-	-	INSTALL NEW HYDRANTS				
KŪHIŌ HIGHWAY	-	-	TRANSFER SERVICES ALONG KŪHIŌ HIGHWAY				
KŪHIŌ HIGHWAY / POINCIANA STREET	-	10+50± TO END	INSTALL NEW 18" WATER MAIN				
KŪHIŌ HIGHWAY	-	10+50±	CONNECT TO NEW W18" (CONN 3B)				
KŪHIŌ HIGHWAY / POINCIANA STREET	-	-	REMOVE E/16" AC PIPE				
POINCIANA STREET POINCIANA STREET	-	-	ACTIVATE NEW HYDRANT. REMOVE EXISTING HYDRANT. TRANSFER SERVICES ALONG POINCIANA STREET				
POINCIANA STREET	-	-	CAP AND INACTIVATE E/W16" AT INTERSECTION OF JERVES AND POINC				
KŪHIŌ HIGHWAY	-	-	CAP AND INACTIVATE E/W6" AT INTERSECTION OF KŪHIŌ HIGHWAY AND AHUKINI ROAD				
KŪHIŌ HIGHWAY	-	-	CLOSE GV AT INTERSECTION OF KŪHIŌ HIGHWAY AND HARDY STREET				

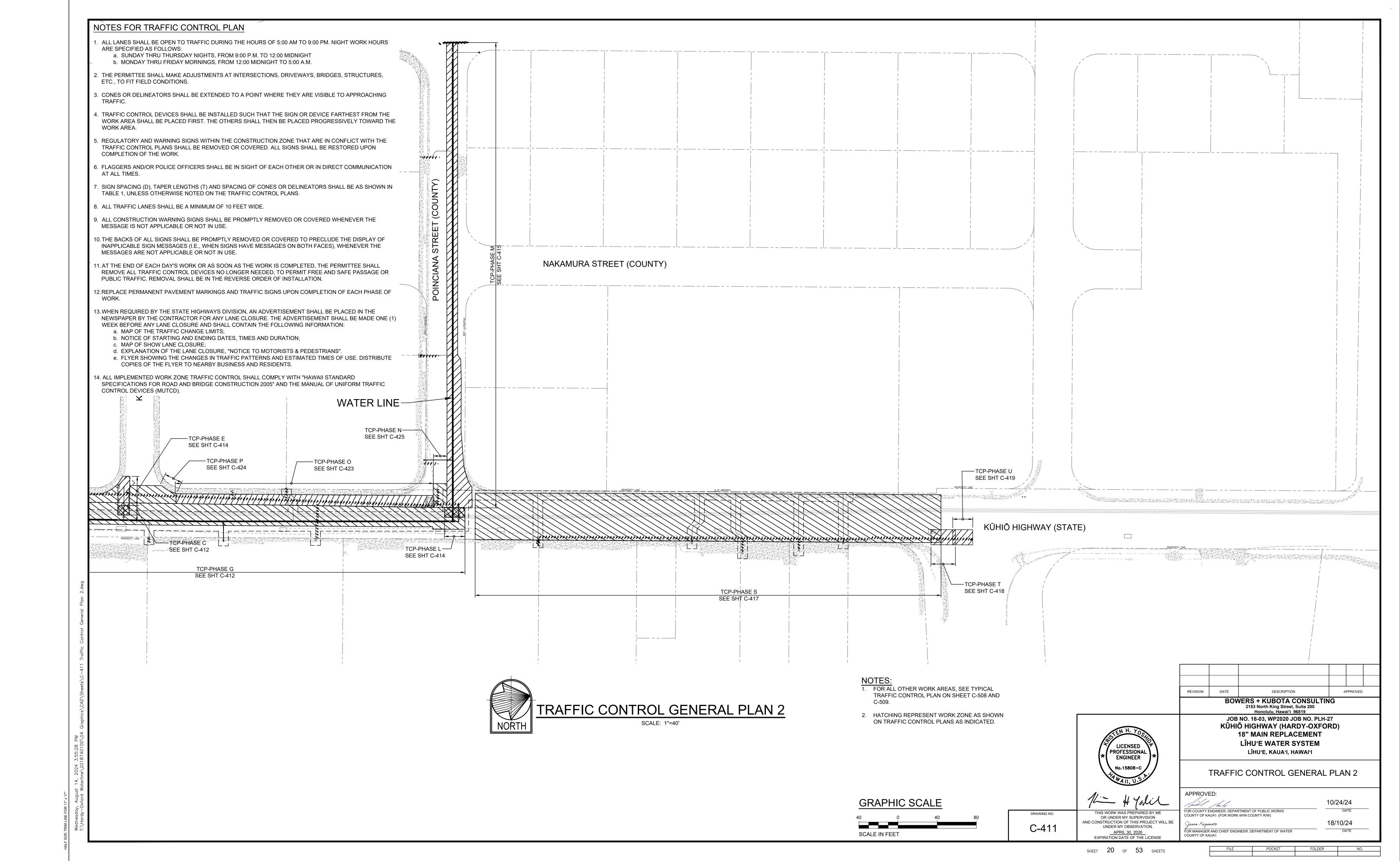
	CONNECTION SCHEDULE									
			NORMAL WORKING	AFTER WORKING	MAXIMUM DOWN TIME					
NO.	LOCATION	SHT. NO.	HOURS	HOURS						
1	KŪHIŌ HIGHWAY, STA 0+00±	C-401		Х	6 HRS					
2	POINCIANA STREET, STA 15+10.0±	C-404	Х		6 HRS					
3A	KŪHIŌ HIGHWAY, STA 10+50±	C-403		Х	6 HRS					
3B	KŪHIŌ HIGHWAY, STA 10+50±	C-403		X	CONN TO NEW STUB-OUT 6 HRS					
4	KALI ROAD, STA 6+82.50	C-402	Х		6 HRS					

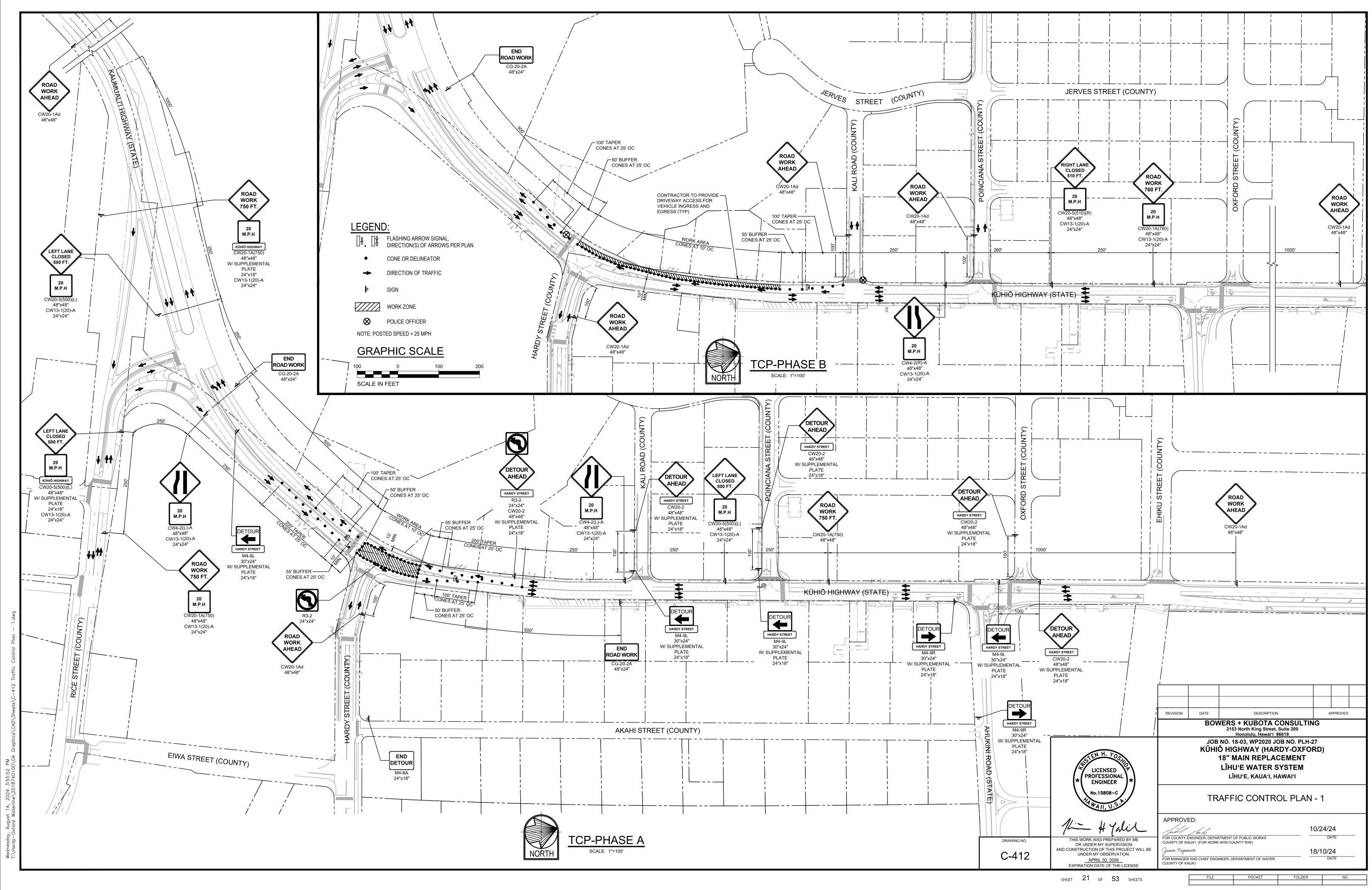




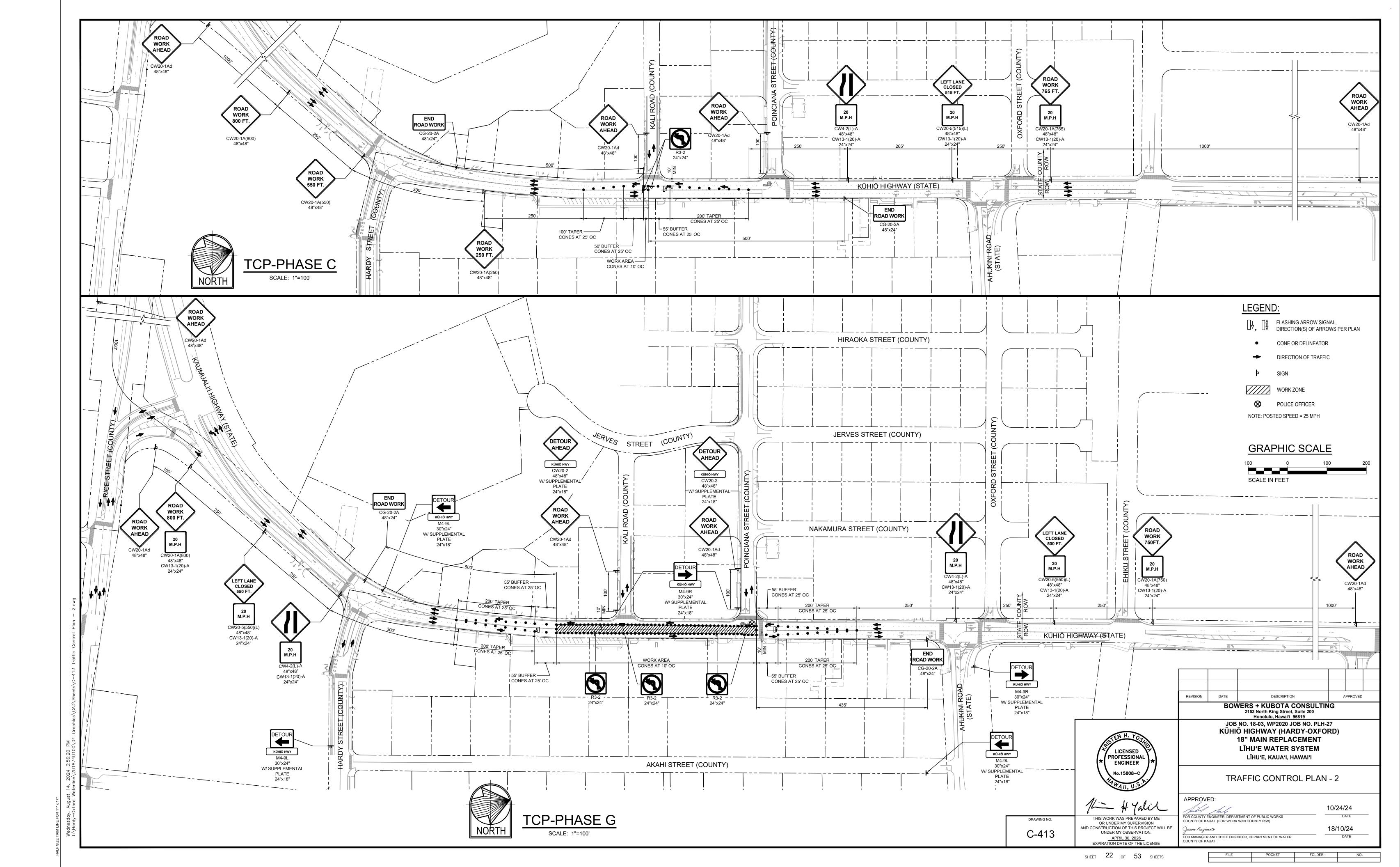


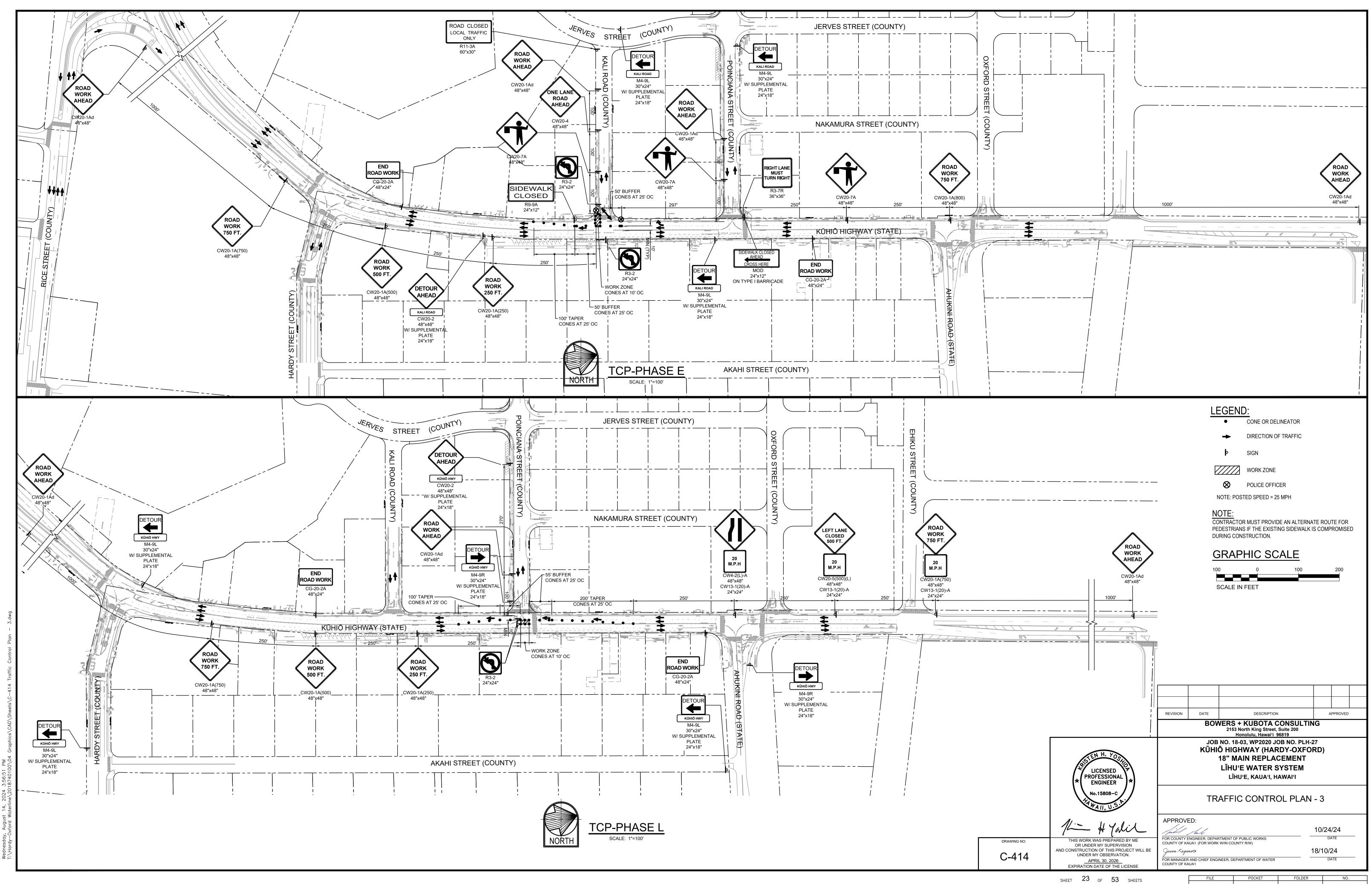
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40	0	40	
SCALE I	N FEET		



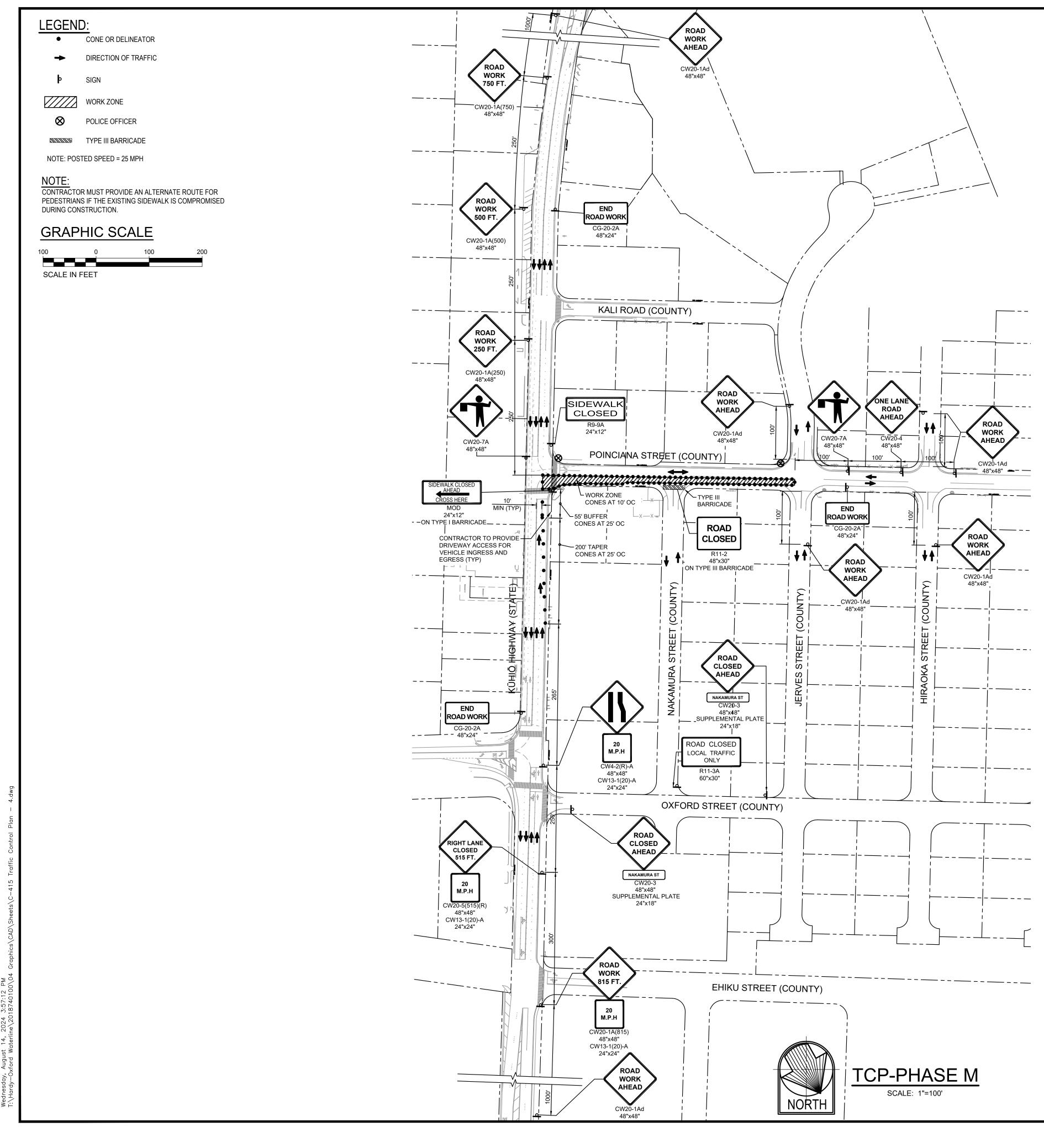


: SIZE TRIM LINE FOR 11" x 17"



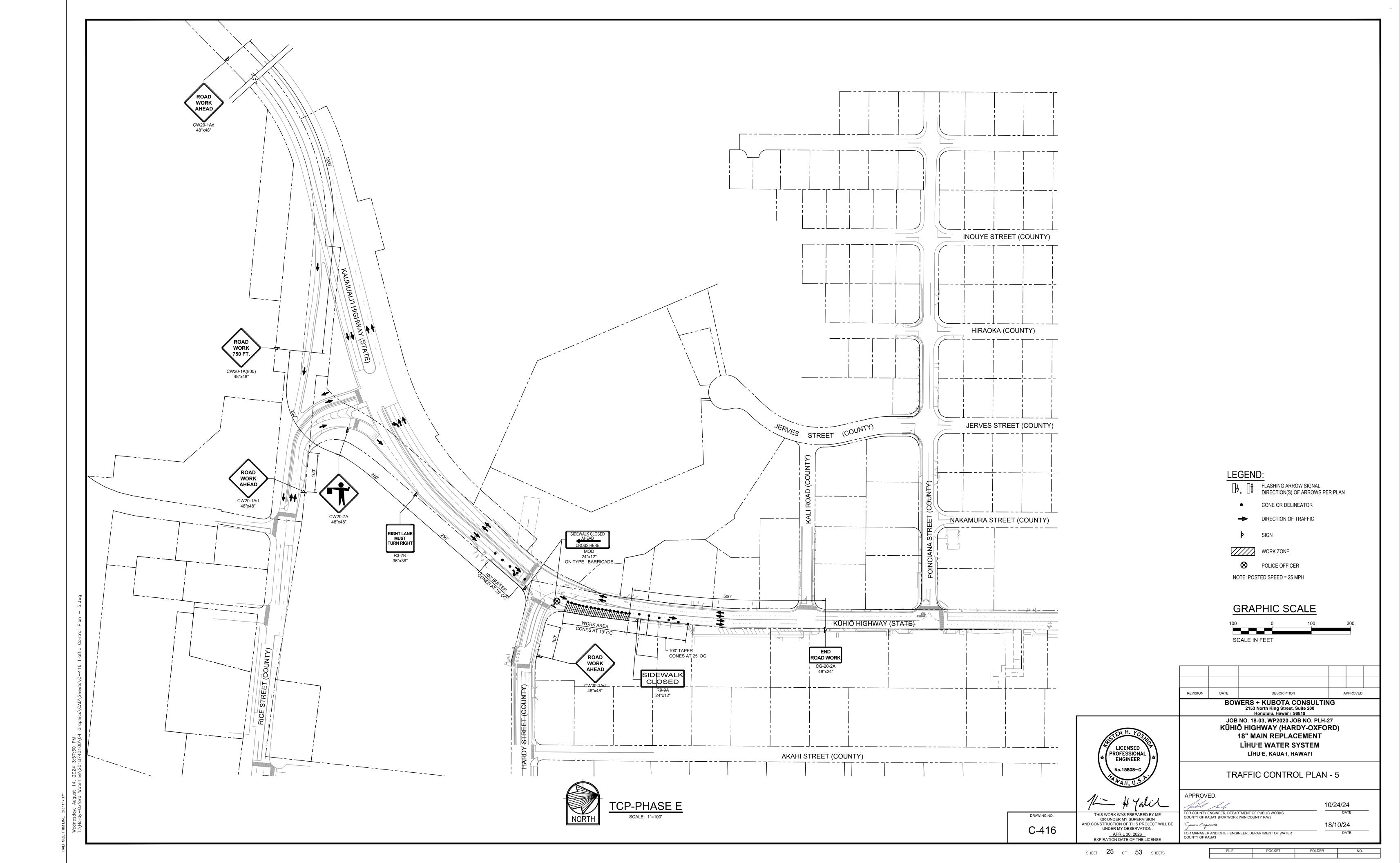


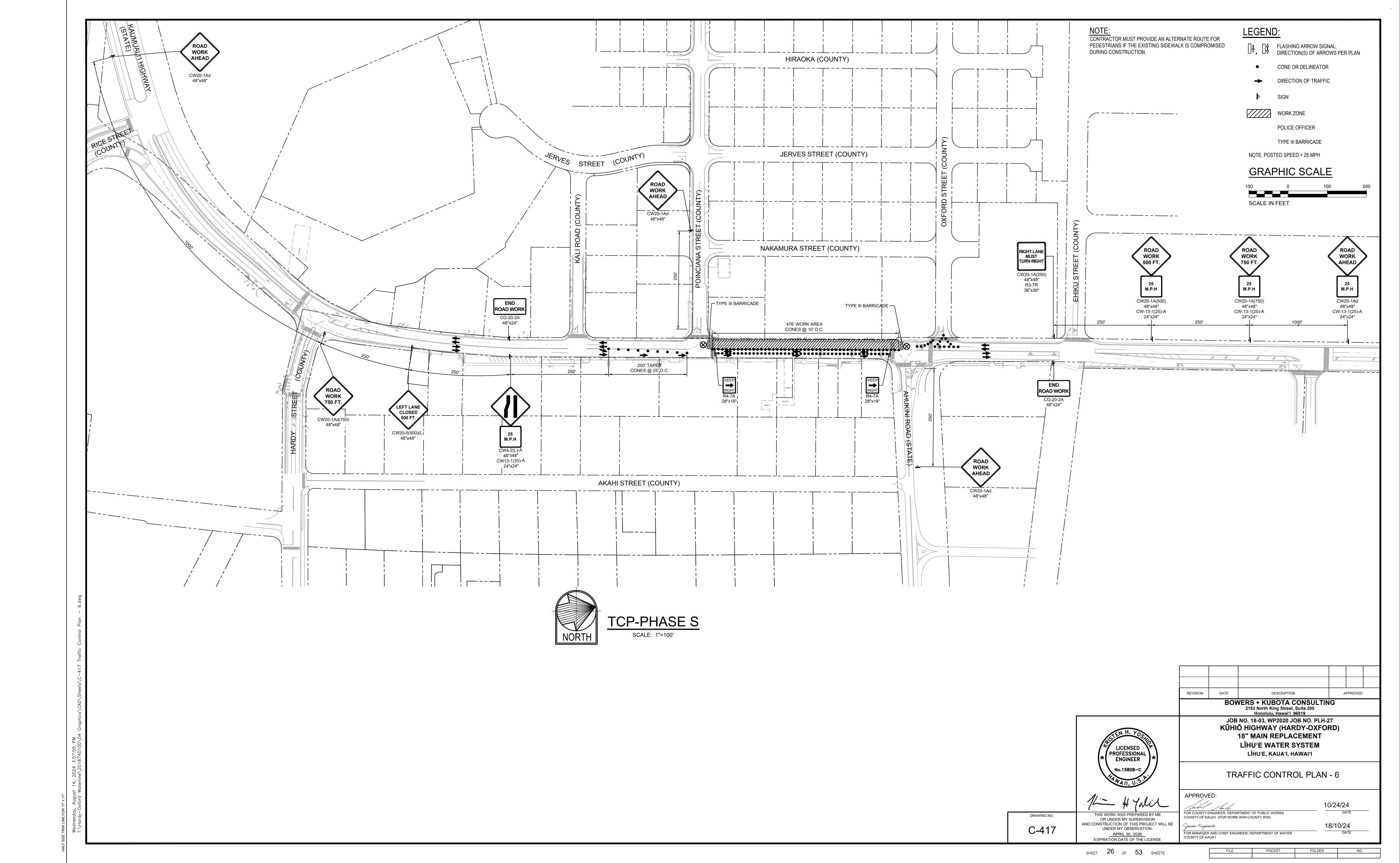
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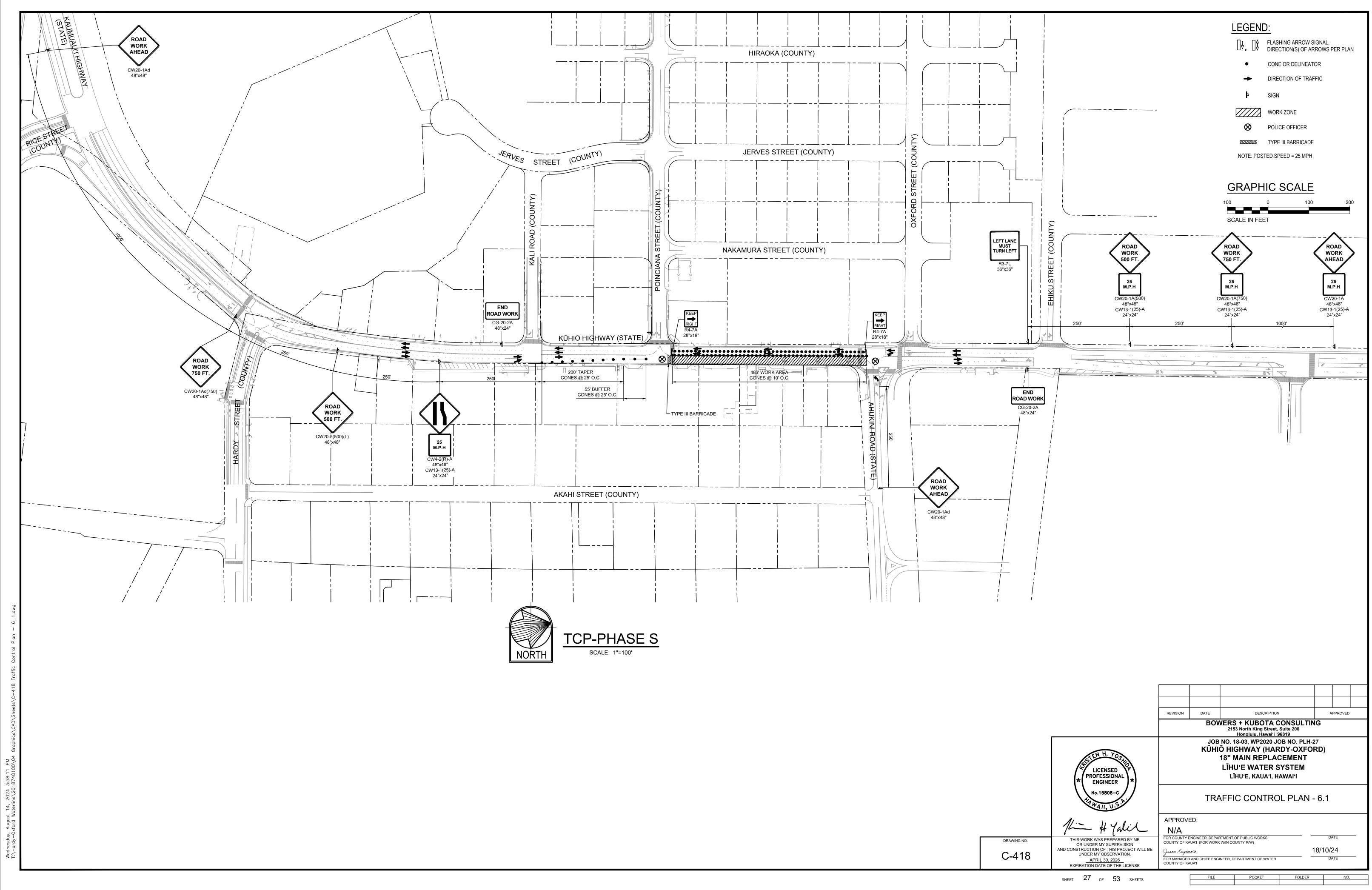


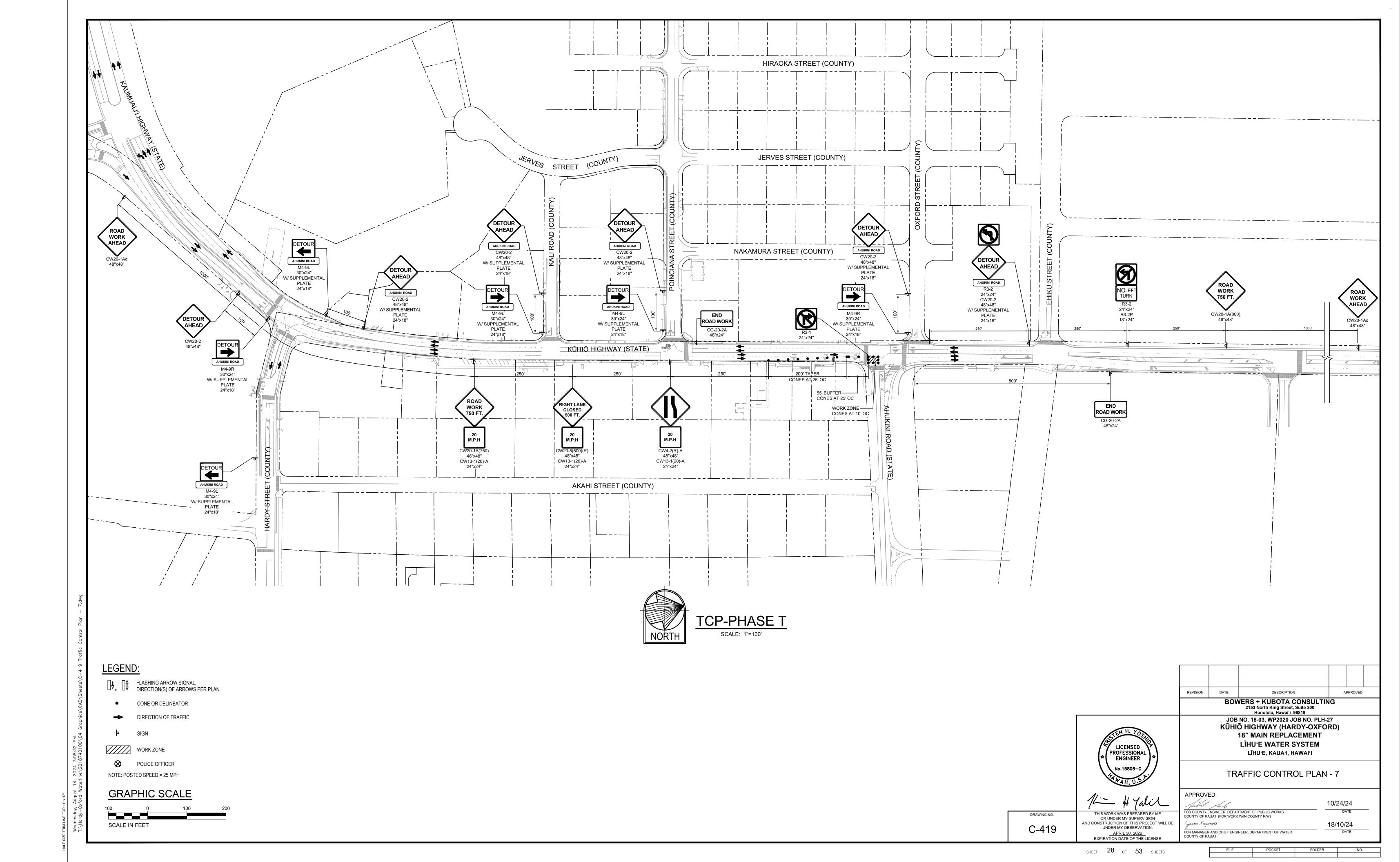
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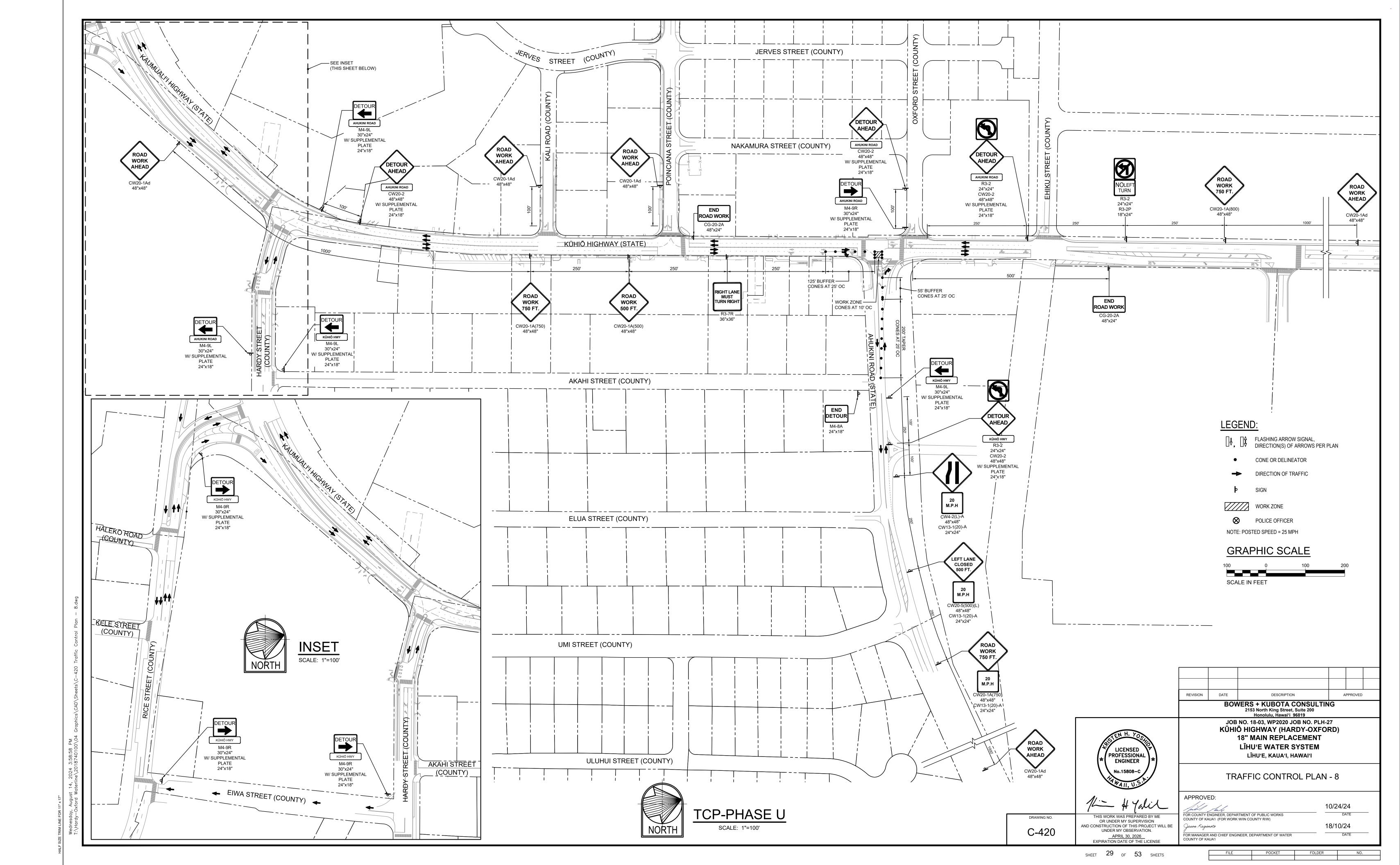
		REVISION	DATE	DESCRIPTION	1	APPROVED					
			BOV	VERS + KUBOTA C 2153 North King Street, Honolulu, Hawai'i	Suite 200	te 200					
	LICENSED PROFESSIONAL ENGINEER	JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHUʻE WATER SYSTEM LĪHUʻE, KAUAʻI, HAWAIʻI									
	No.15808-C	TRAFFIC CONTROL PLAN - 4									
	11- Hyalic	APPROVE	1	10/24/24							
drawing no. C-415	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	FOR COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS COUNTY OF KAUA'I (FOR WORK W/IN COUNTY R/W)       DATE         Jason Kagimoto       18/10/24         FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER COUNTY OF KAUA'I       DATE									
	SHEET 24 OF 53 SHEETS		FILE	POCKET	FOLDER		NO.				

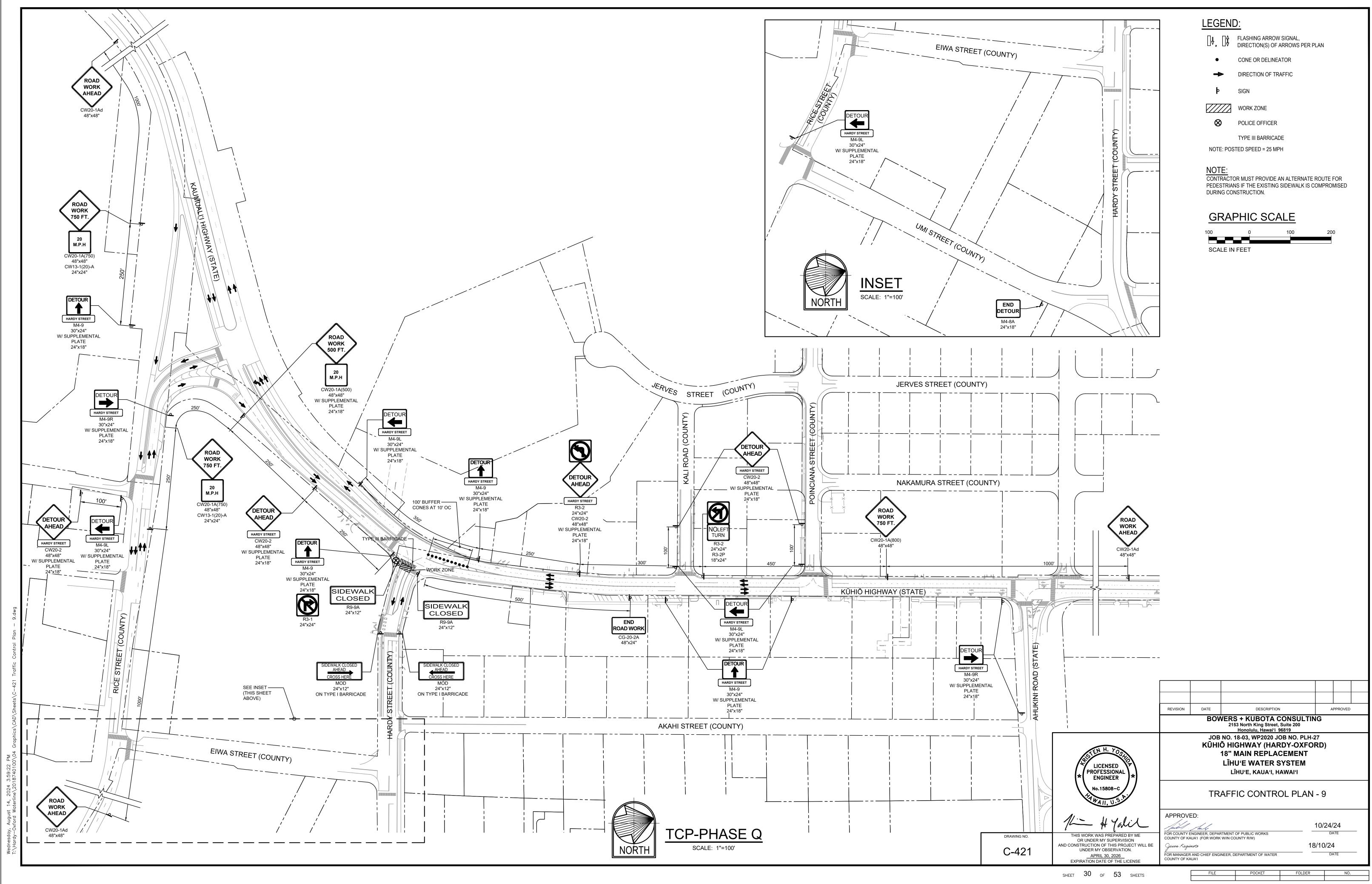




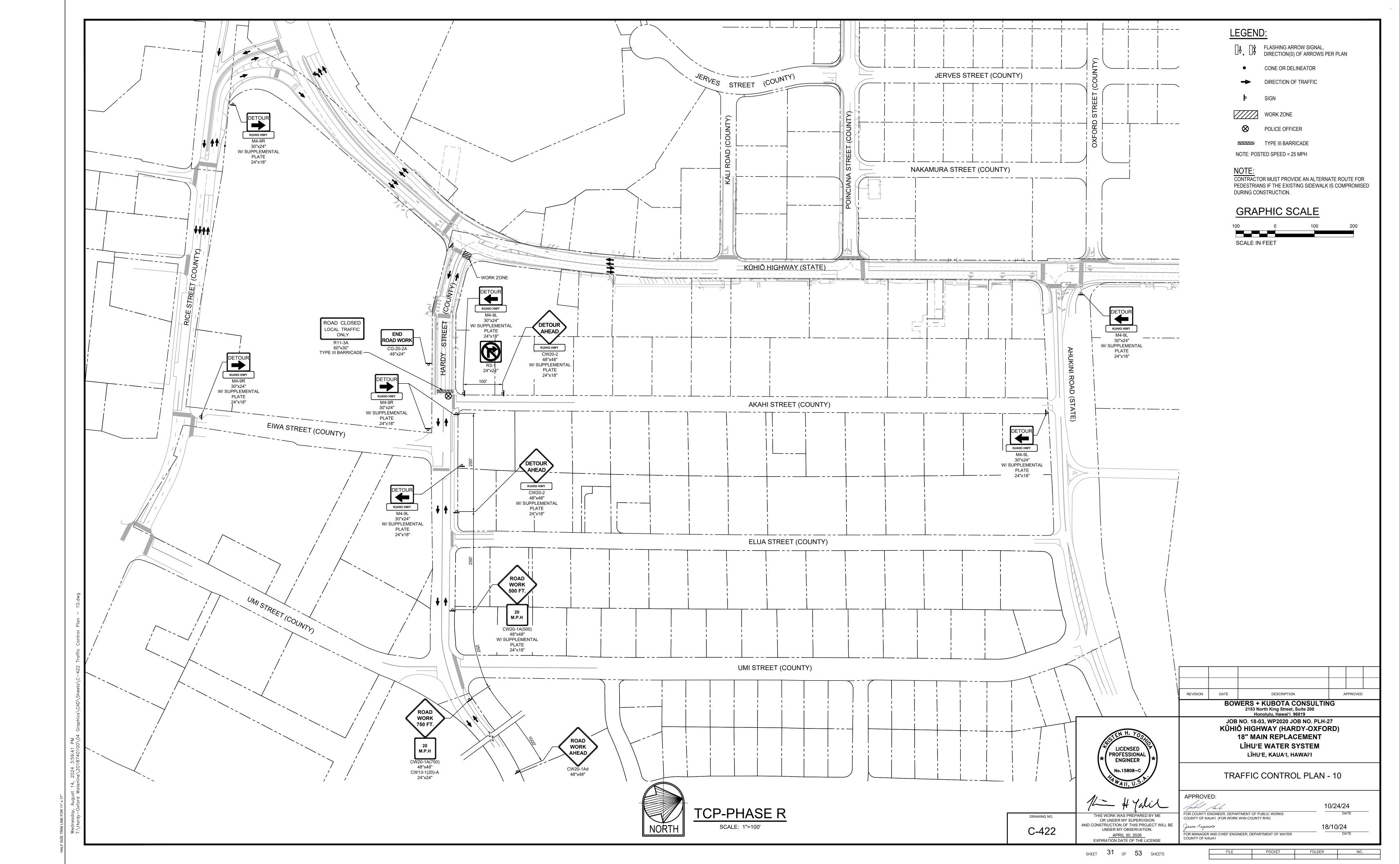


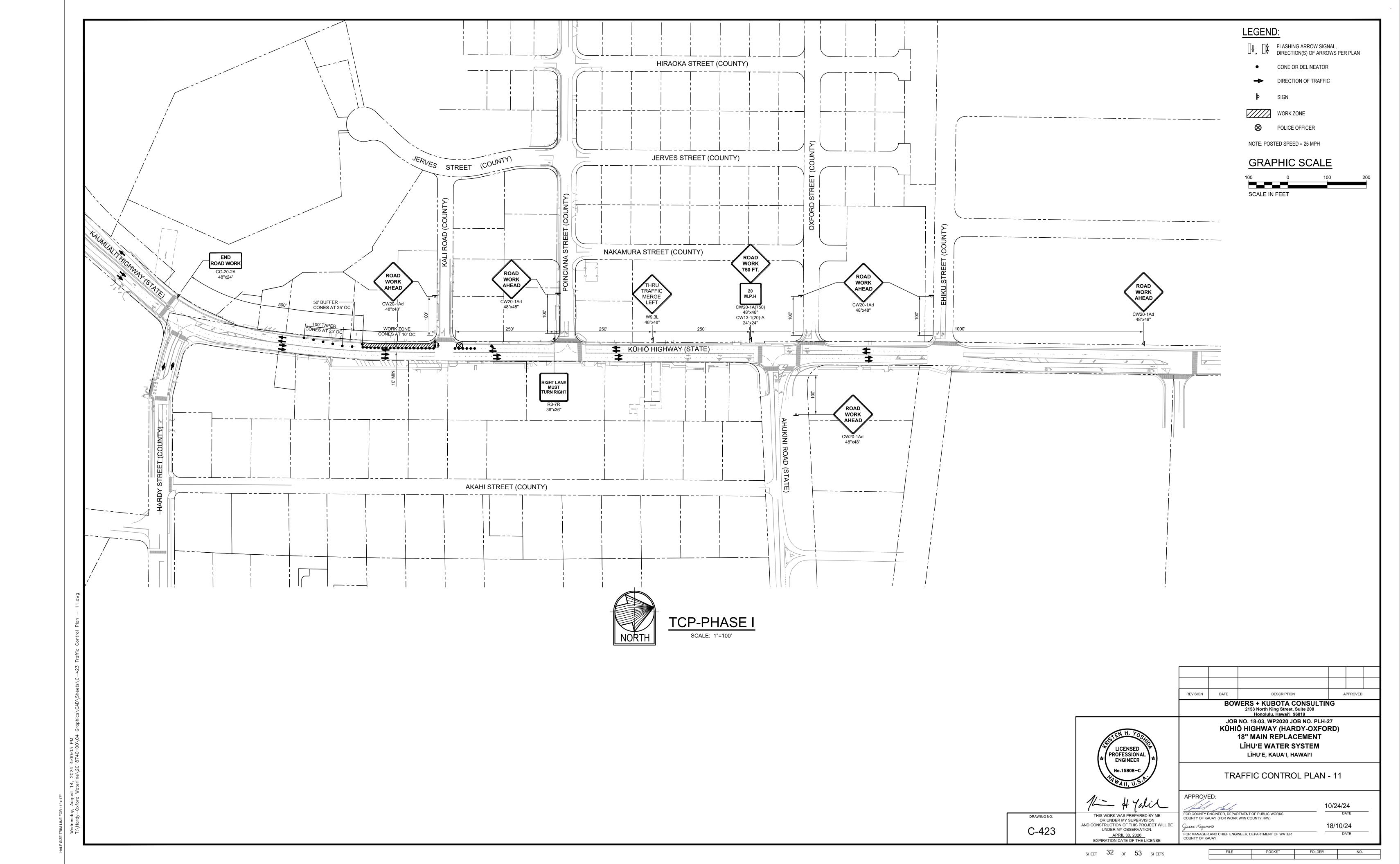


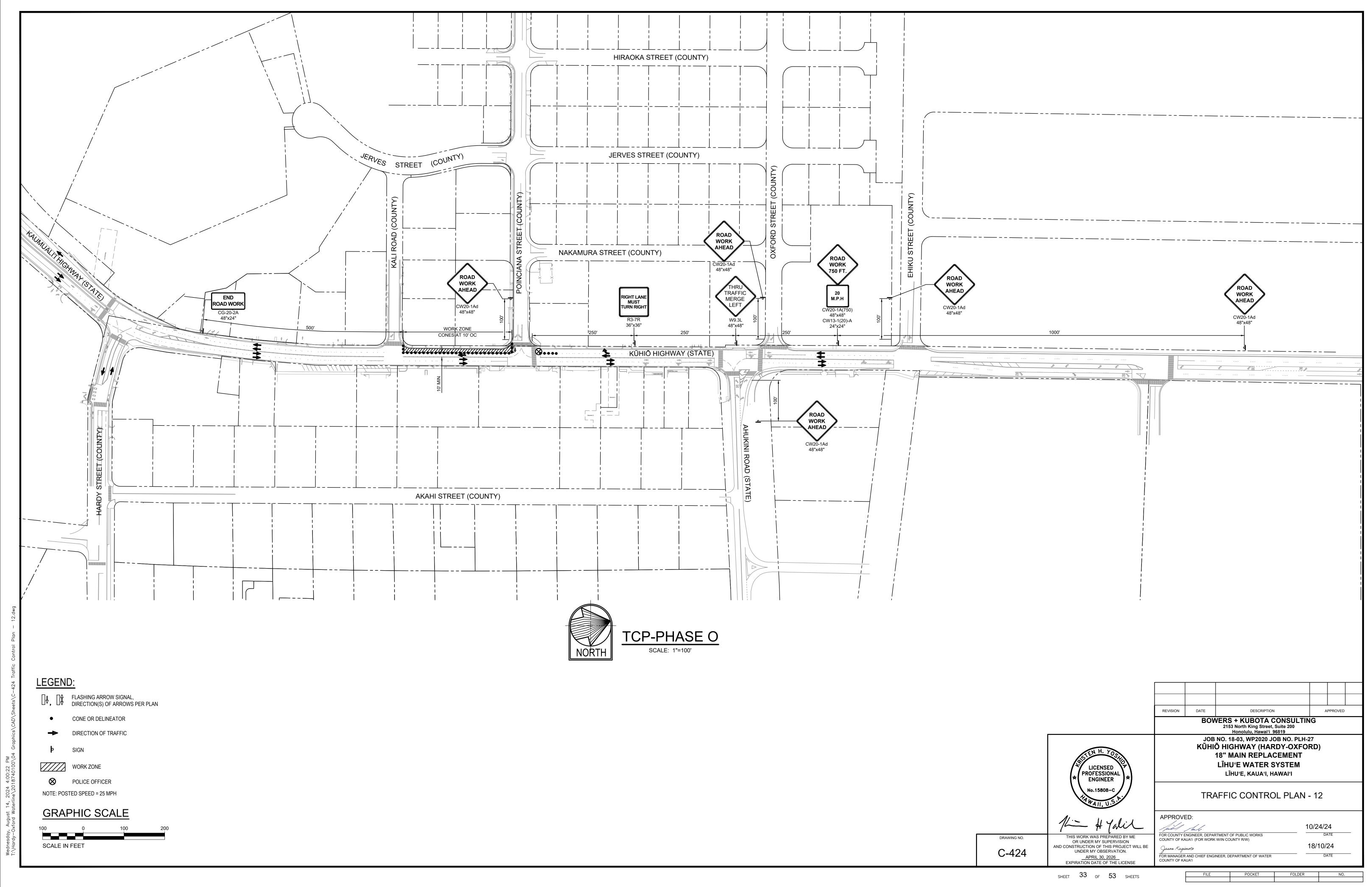




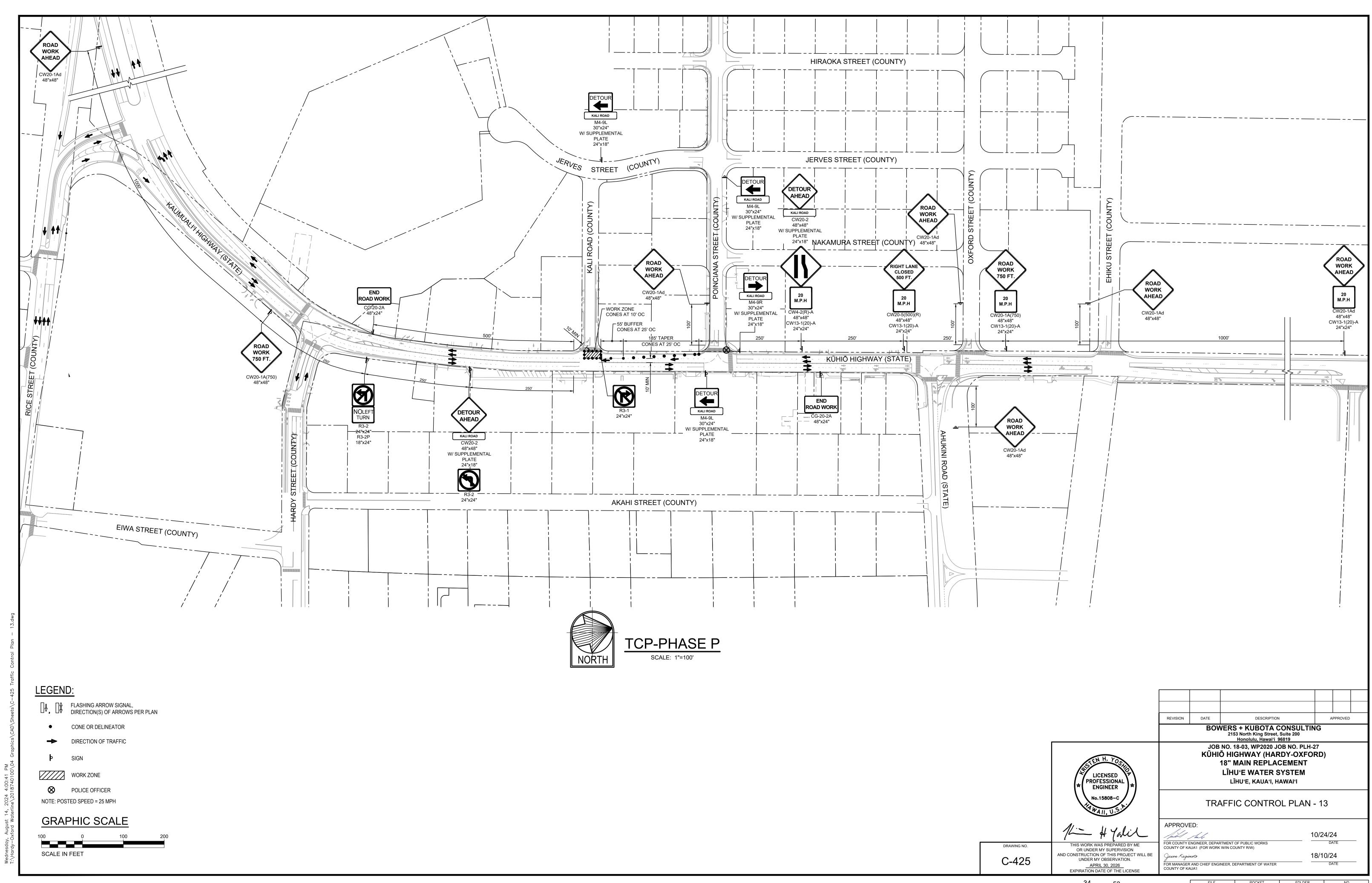
SIZE TRIM LINE FOR 11" x 17"







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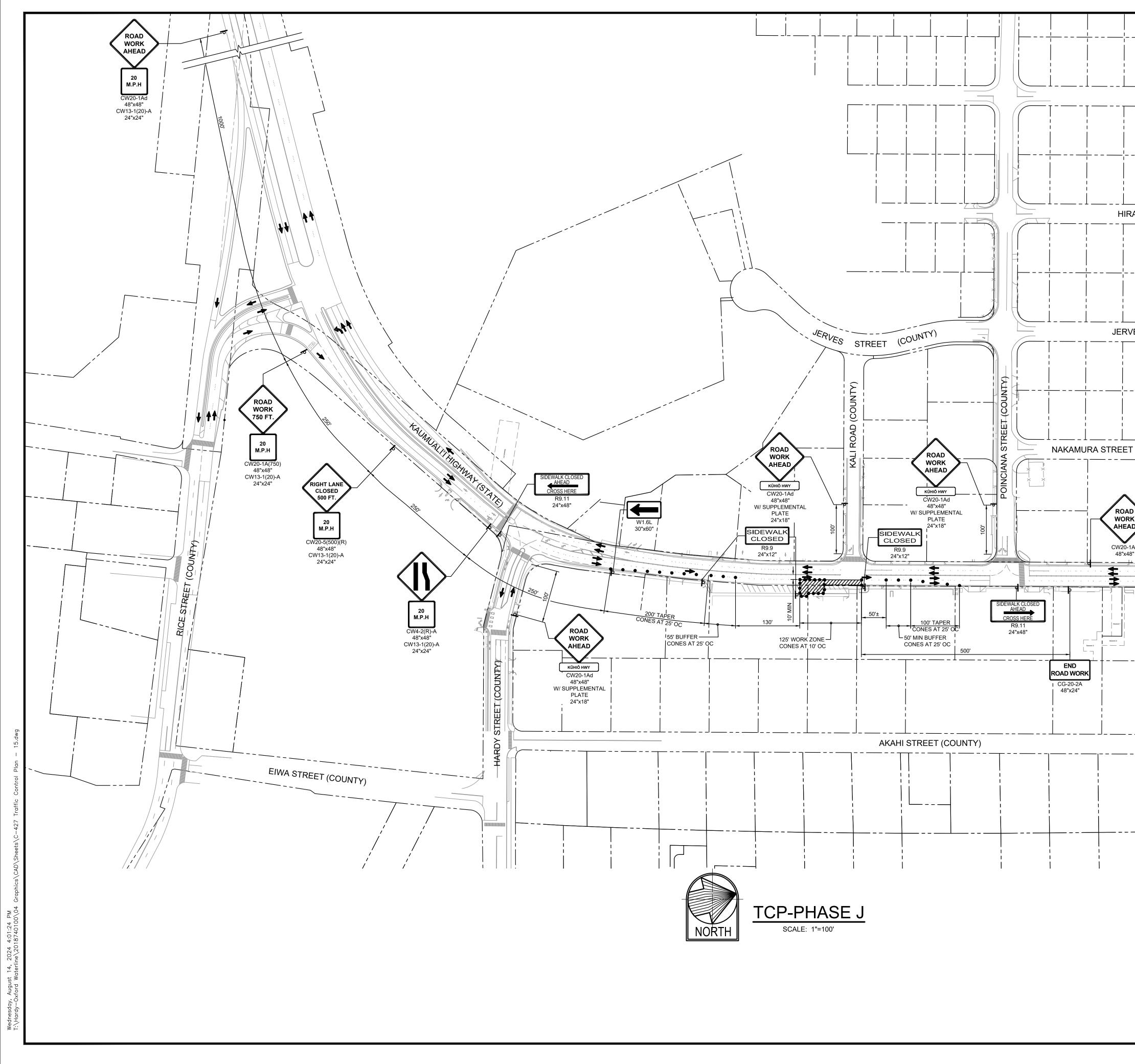


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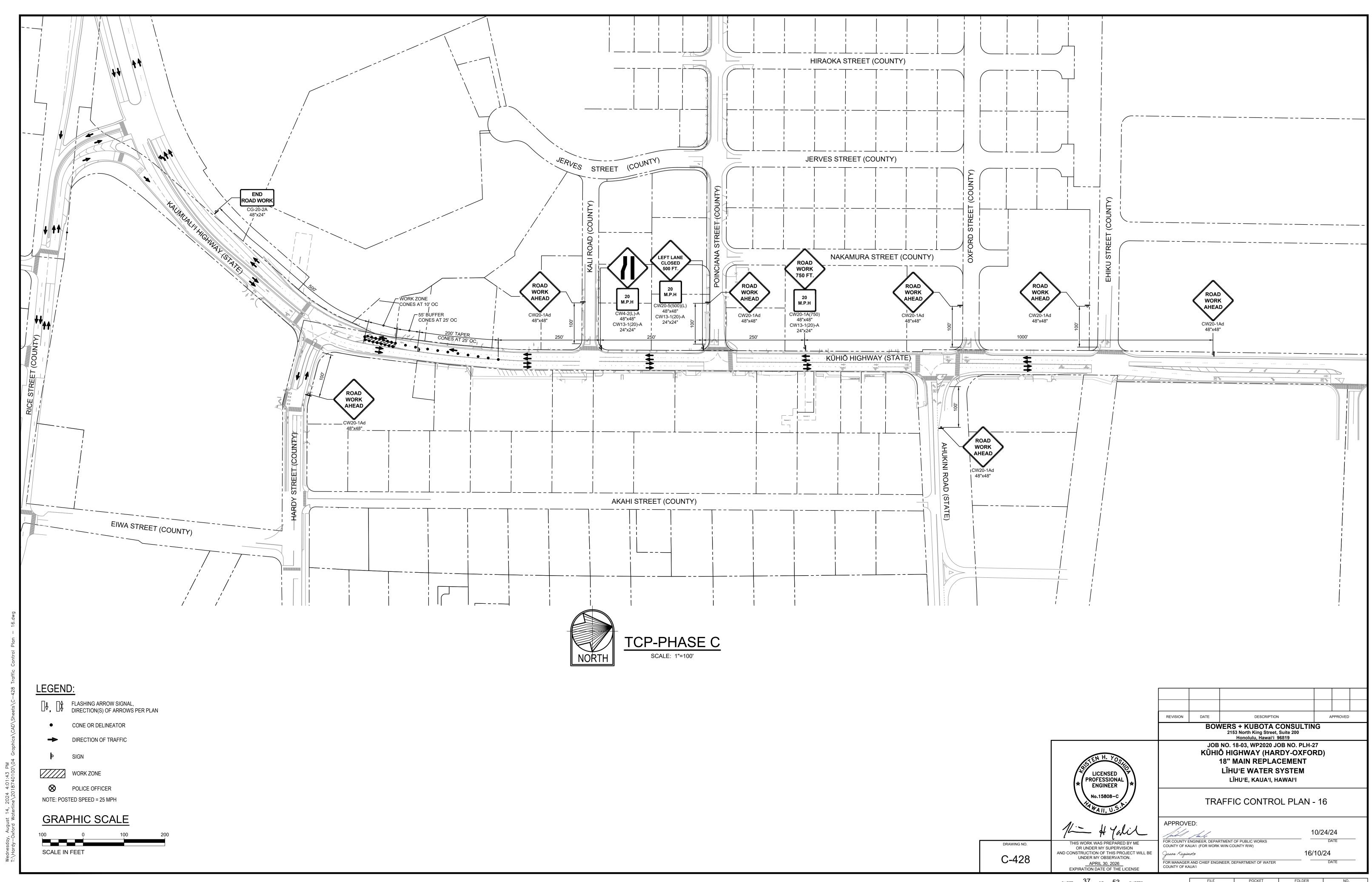
SHEET 34 OF 53 SHEETS

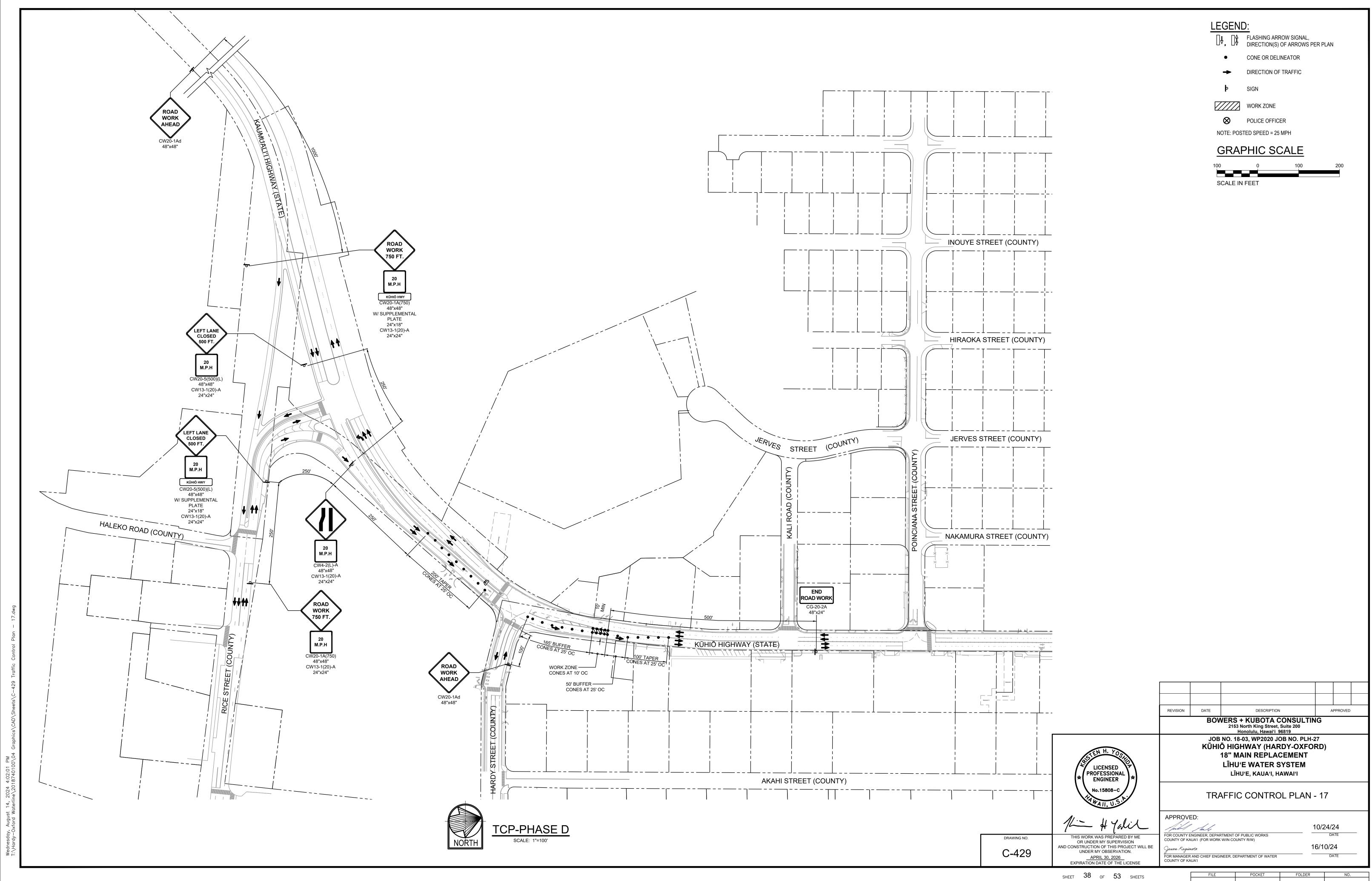
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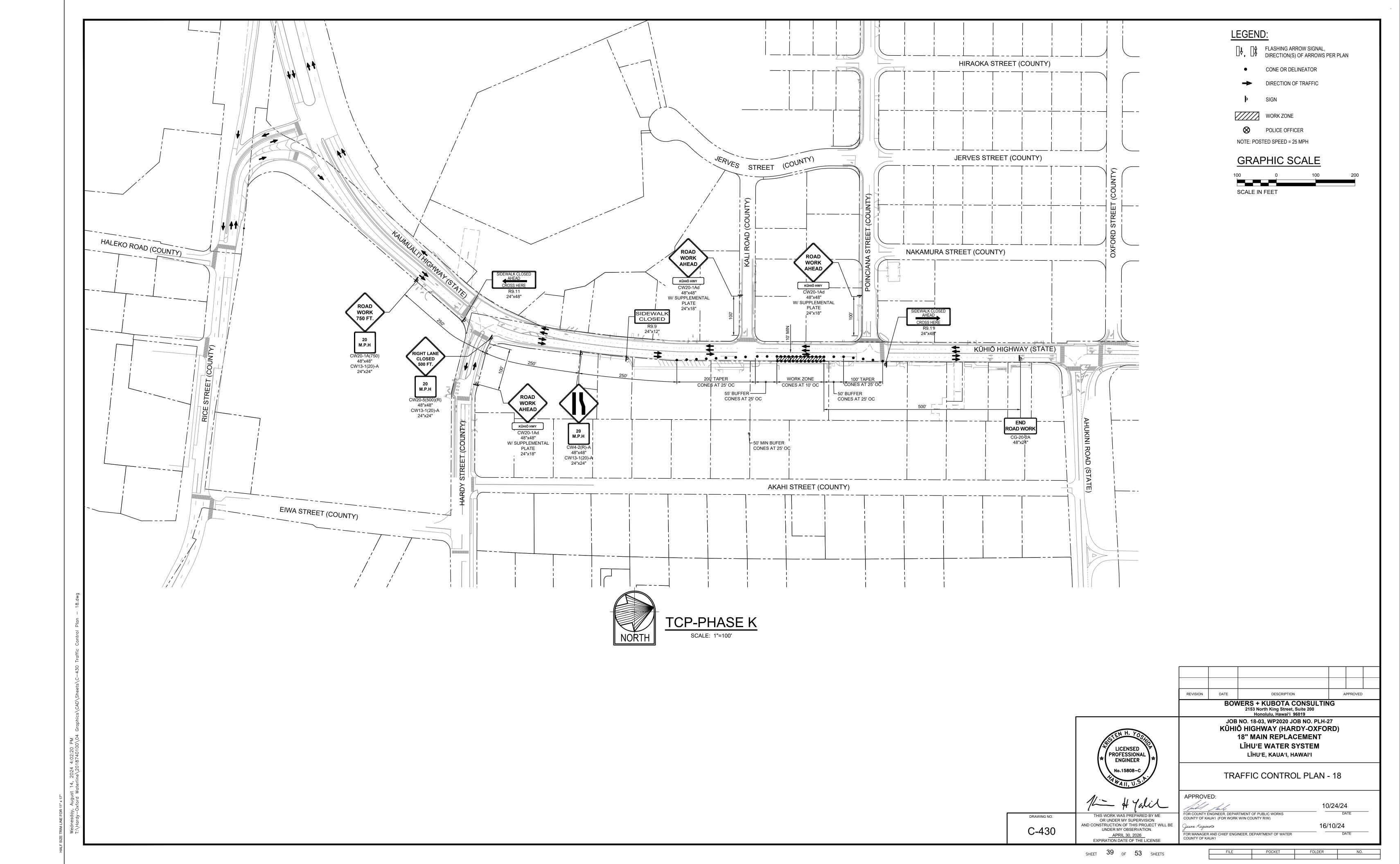


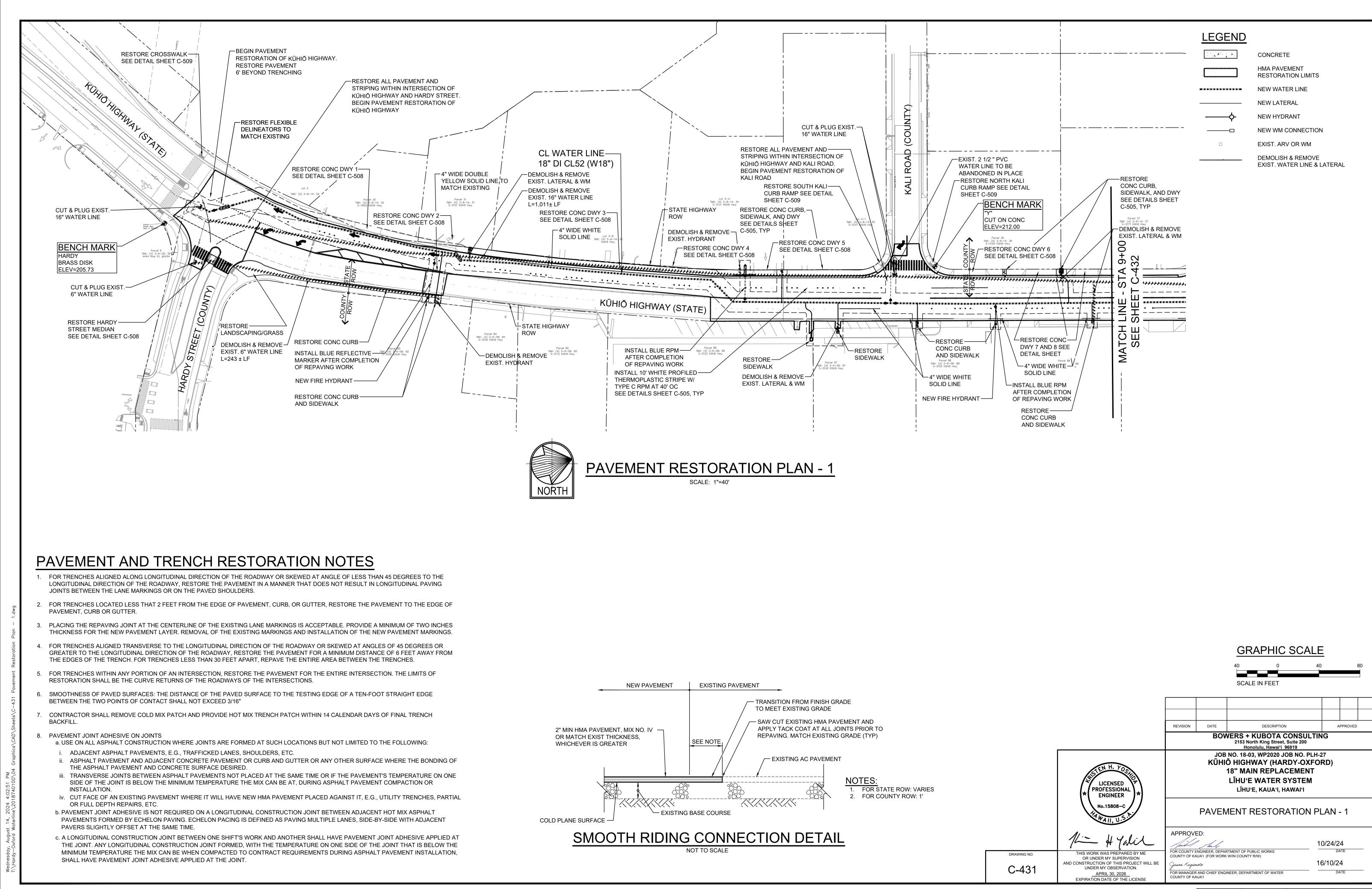
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		]					JOВ KŪHI	NO. 18-0	3, WP2020 JOB WAY (HARD)	NO. PLH-2	27 RD)	
					H. YOSHID			18" MA	IN REPLACE	MENT	· 1	
			14	LIC PROFE	ENSED SSIONAL SINEER				E, KAUA'I, HAW			
			//	No.1	5808-C		TR	AFFIC.	CONTROL	PLAN .	- 15	
				YA WA	11, U.S.P							
			11-	(	H Yalil	APPRO	ED: Sub			1	0/24/24	
	DRAWING NO	).	OR	UNDER M	S PREPARED BY ME	COUNTY OF	ENGINEER, DEPAR (AUA'I (FOR WORK	RTMENT OF PL	JBLIC WORKS ( R/W)		DATE	—
	C-427	7	UN	DER MY	DF THIS PROJECT WILL OBSERVATION. . 30, 2026	Juson May	R AND CHIEF ENG	INEER, DEPAR	TMENT OF WATER	1	8/10/24 DATE	-
				0.0	TE OF THE LICENSE		FILE		POCKET	FOLDER	NO.	



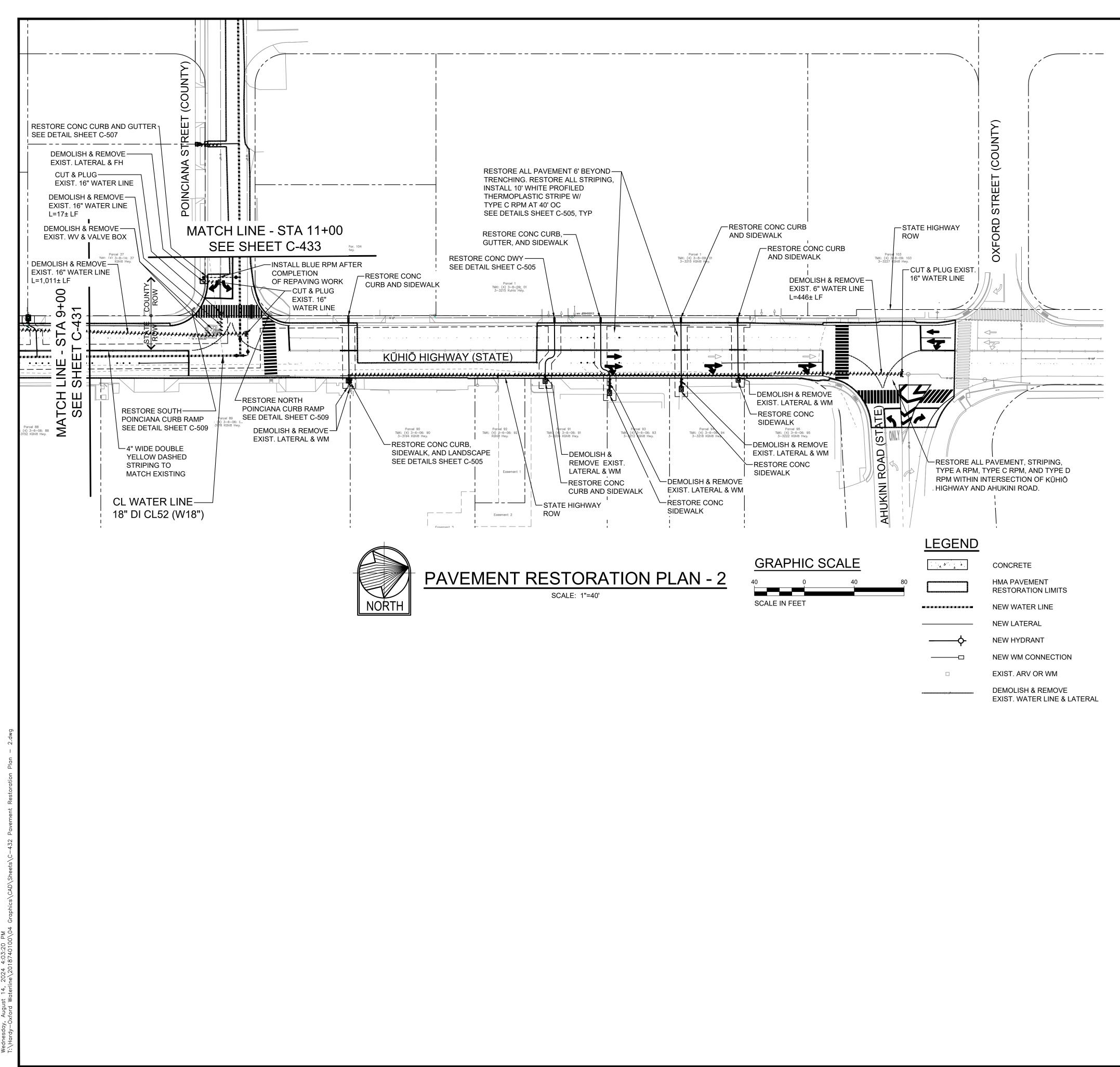


SIZE TRIM LINE FOR 11" × 17"





SHEET 40 OF 53 SHEETS

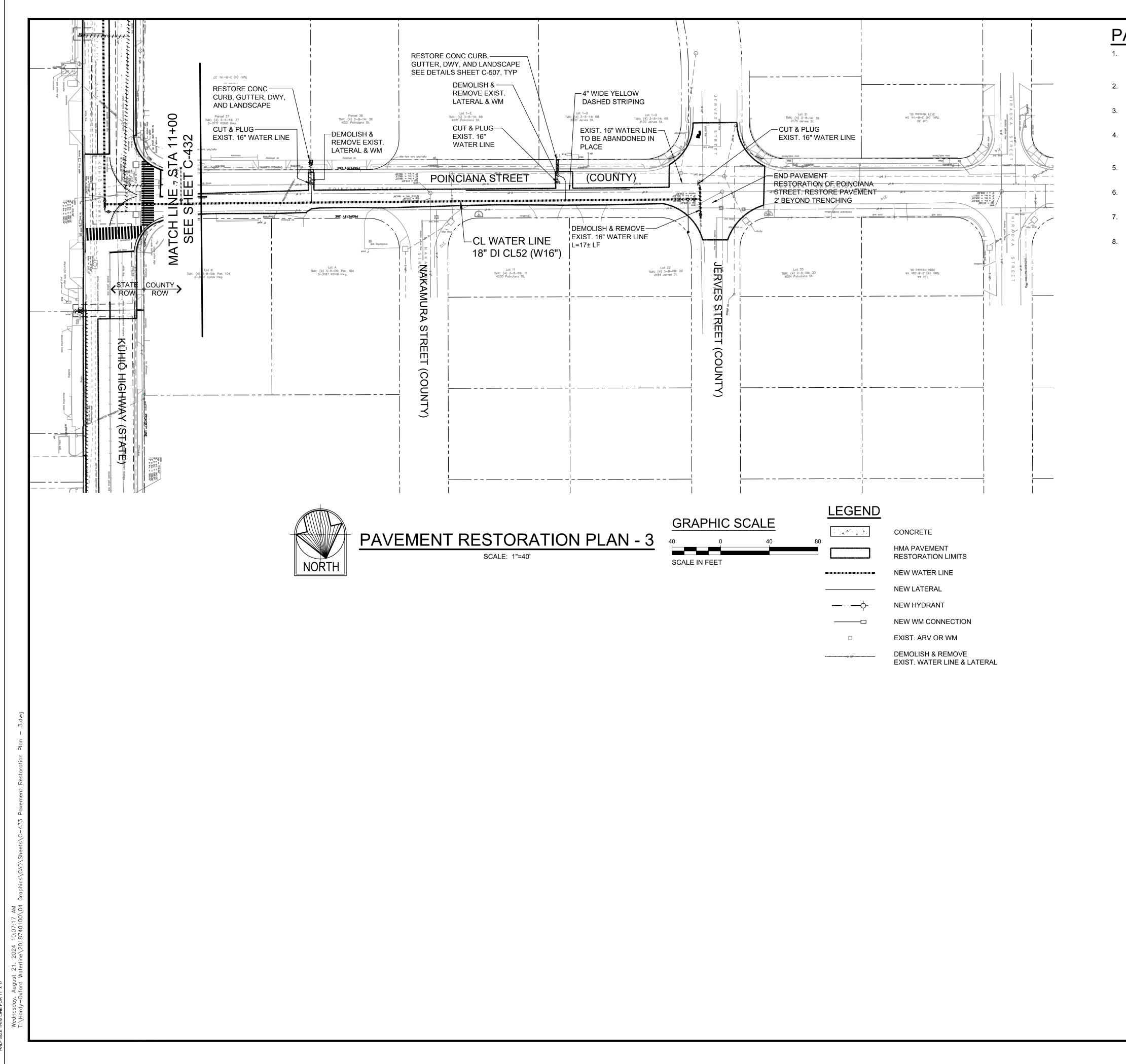




## PAVEMENT AND TRENCH RESTORATION NOTES

- 1. FOR TRENCHES ALIGNED ALONG LONGITUDINAL DIRECTION OF THE ROADWAY OR SKEWED AT ANGLE OF LESS THAN 45 DEGREES TO THE LONGITUDINAL DIRECTION OF THE ROADWAY, RESTORE THE PAVEMENT IN A MANNER THAT DOES NOT RESULT IN LONGITUDINAL PAVING JOINTS BETWEEN THE LANE MARKINGS OR ON THE PAVED SHOULDERS.
- 2. FOR TRENCHES LOCATED LESS THAT 2 FEET FROM THE EDGE OF PAVEMENT, CURB, OR GUTTER, RESTORE THE PAVEMENT TO THE EDGE OF PAVEMENT, CURB OR GUTTER.
- 3. PLACING THE REPAVING JOINT AT THE CENTERLINE OF THE EXISTING LANE MARKINGS IS ACCEPTABLE. PROVIDE A MINIMUM OF TWO INCHES THICKNESS FOR THE NEW PAVEMENT LAYER. REMOVAL OF THE EXISTING MARKINGS AND INSTALLATION OF THE NEW PAVEMENT MARKINGS.
- 4. FOR TRENCHES ALIGNED TRANSVERSE TO THE LONGITUDINAL DIRECTION OF THE ROADWAY OR SKEWED AT ANGLES OF 45 DEGREES OR GREATER TO THE LONGITUDINAL DIRECTION OF THE ROADWAY, RESTORE THE PAVEMENT FOR A MINIMUM DISTANCE OF 6 FEET AWAY FROM THE EDGES OF THE TRENCH. FOR TRENCHES LESS THAN 30 FEET APART, REPAVE THE ENTIRE AREA BETWEEN THE TRENCHES.
- 5. FOR TRENCHES WITHIN ANY PORTION OF AN INTERSECTION, RESTORE THE PAVEMENT FOR THE ENTIRE INTERSECTION. THE LIMITS OF RESTORATION SHALL BE THE CURVE RETURNS OF THE ROADWAYS OF THE INTERSECTIONS.
- 6. SMOOTHNESS OF PAVED SURFACES: THE DISTANCE OF THE PAVED SURFACE TO THE TESTING EDGE OF A TEN-FOOT STRAIGHT EDGE BETWEEN THE TWO POINTS OF CONTACT SHALL NOT EXCEED 3/16"
- 7. CONTRACTOR SHALL REMOVE COLD MIX PATCH AND PROVIDE HOT MIX TRENCH PATCH WITHIN 14 CALENDAR DAYS OF FINAL TRENCH BACKFILL.
- 8. PAVEMENT JOINT ADHESIVE ON JOINTS
  - a. USE ON ALL ASPHALT CONSTRUCTION WHERE JOINTS ARE FORMED AT SUCH LOCATIONS BUT NOT LIMITED TO THE FOLLOWING: i. ADJACENT ASPHALT PAVEMENTS, E.G., TRAFFICKED LANES, SHOULDERS, ETC.
  - ii. ASPHALT PAVEMENT AND ADJACENT CONCRETE PAVEMENT OR CURB AND GUTTER OR ANY OTHER SURFACE WHERE THE BONDING OF THE ASPHALT PAVEMENT AND CONCRETE SURFACE DESIRED.
  - iii. TRANSVERSE JOINTS BETWEEN ASPHALT PAVEMENTS NOT PLACED AT THE SAME TIME OR IF THE PAVEMENT'S TEMPERATURE ON ONE SIDE OF THE JOINT IS BELOW THE MINIMUM TEMPERATURE THE MIX CAN BE AT, DURING ASPHALT PAVEMENT COMPACTION OR INSTALLATION.
  - iv. CUT FACE OF AN EXISTING PAVEMENT WHERE IT WILL HAVE NEW HMA PAVEMENT PLACED AGAINST IT, E.G., UTILITY TRENCHES, PARTIAL OR FULL DEPTH REPAIRS, ETC.
  - b. PAVEMENT JOINT ADHESIVE IS NOT REQUIRED ON A LONGITUDINAL CONSTRUCTION JOINT BETWEEN ADJACENT HOT MIX ASPHALT PAVEMENTS FORMED BY ECHELON PAVING. ECHELON PACING IS DEFINED AS PAVING MULTIPLE LANES, SIDE-BY-SIDE WITH ADJACENT PAVERS SLIGHTLY OFFSET AT THE SAME TIME.
  - c. A LONGITUDINAL CONSTRUCTION JOINT BETWEEN ONE SHIFT'S WORK AND ANOTHER SHALL HAVE PAVEMENT JOINT ADHESIVE APPLIED AT THE JOINT. ANY LONGITUDINAL CONSTRUCTION JOINT FORMED, WITH THE TEMPERATURE ON ONE SIDE OF THE JOINT THAT IS BELOW THE MINIMUM TEMPERATURE THE MIX CAN BE WHEN COMPACTED TO CONTRACT REQUIREMENTS DURING ASPHALT PAVEMENT INSTALLATION. SHALL HAVE PAVEMENT JOINT ADHESIVE APPLIED AT THE JOINT.

		REVISION	DATE	DESCRIPTIC	DN	AF	PROVED			
		BOWERS + KUBOTA CONSULTING 2153 North King Street, Suite 200 Honolulu, Hawai'i 96819								
	LICENSED ★ PROFESSIONAL ENGINEER	JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHU'E WATER SYSTEM LĪHU'E, KAUA'I, HAWAI'I								
	No.15808-C	PAVEMENT RESTORATION PLAN - 2								
	1- Hyalic		July		1	0/24/2				
drawing no.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	FOR COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS       DATE         COUNTY OF KAUA'I (FOR WORK W/IN COUNTY R/W)       Date         Jason Kagimoto       16/10/24         FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER       DATE         COUNTY OF KAUA'I       DATE								
	SHEET 41 OF 53 SHEETS		FILE	POCKET	FOLDER		NO.			



## PAVEMENT AND TRENCH RESTORATION NOTES

1. FOR TRENCHES ALIGNED ALONG LONGITUDINAL DIRECTION OF THE ROADWAY OR SKEWED AT ANGLE OF LESS THAN 45 DEGREES TO THE LONGITUDINAL DIRECTION OF THE ROADWAY, RESTORE THE PAVEMENT IN A MANNER THAT DOES NOT RESULT IN LONGITUDINAL PAVING JOINTS BETWEEN THE LANE MARKINGS OR ON THE PAVED SHOULDERS.

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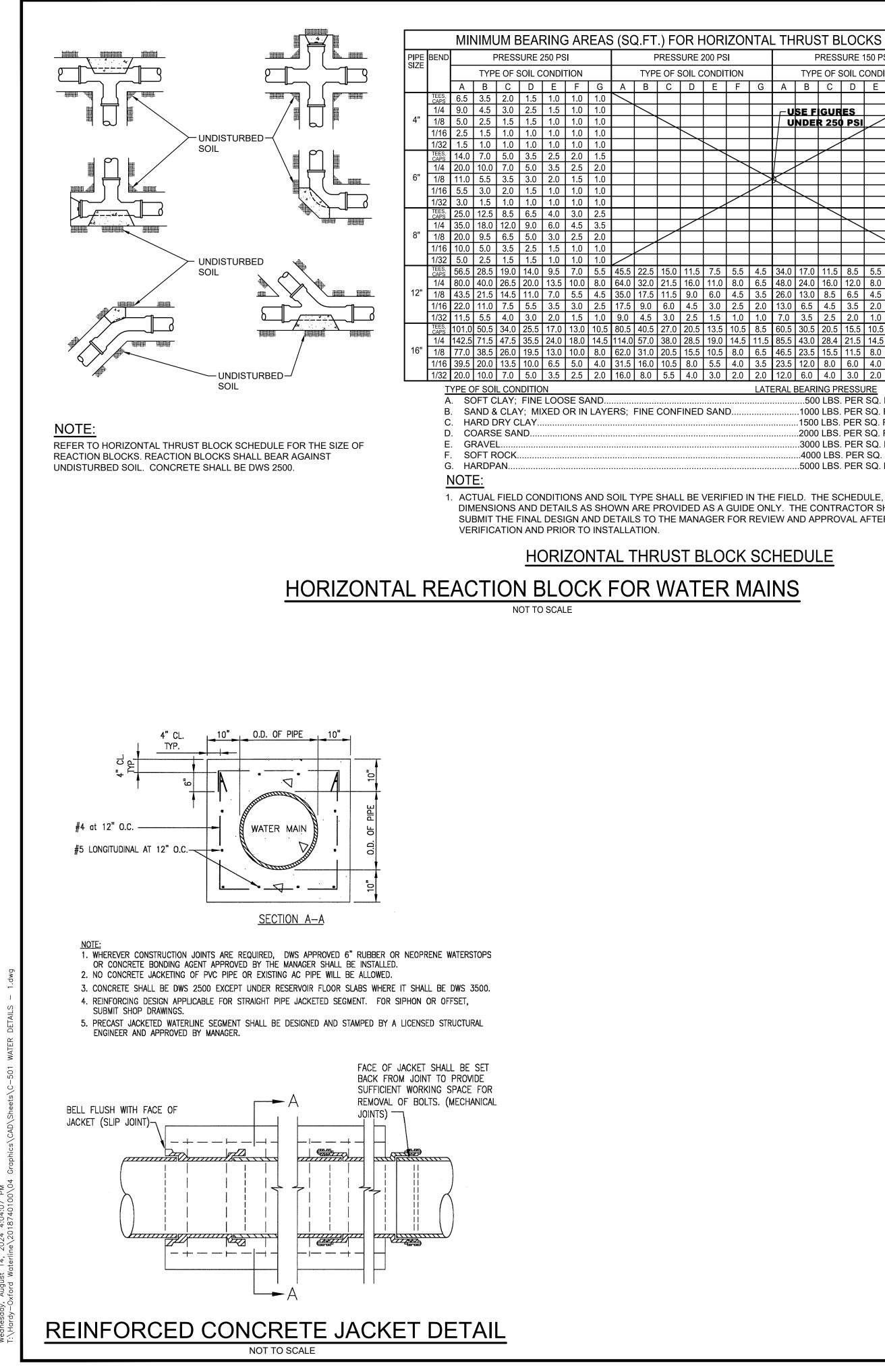
6. SMOOTHNESS OF PAVED SURFACES: THE DISTANCE OF THE PAVED SURFACE TO THE TESTING EDGE OF A TEN-FOOT STRAIGHT EDGE BETWEEN THE TWO POINTS OF CONTACT SHALL NOT EXCEED 3/16"

7. CONTRACTOR SHALL REMOVE COLD MIX PATCH AND PROVIDE HOT MIX TRENCH PATCH WITHIN 14 CALENDAR DAYS OF FINAL TRENCH BACKFILL.

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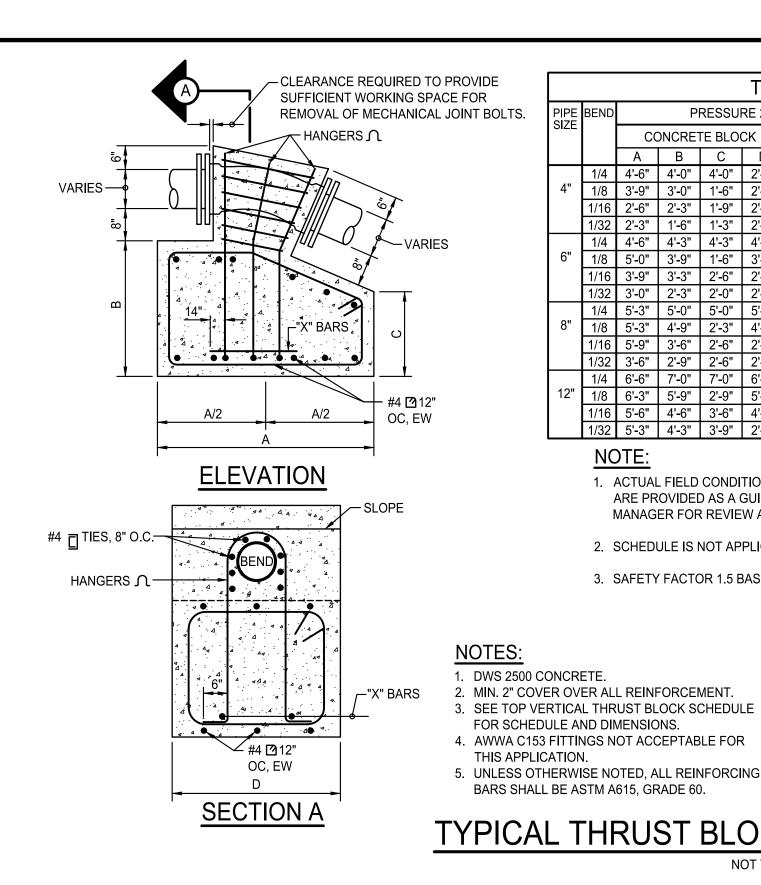
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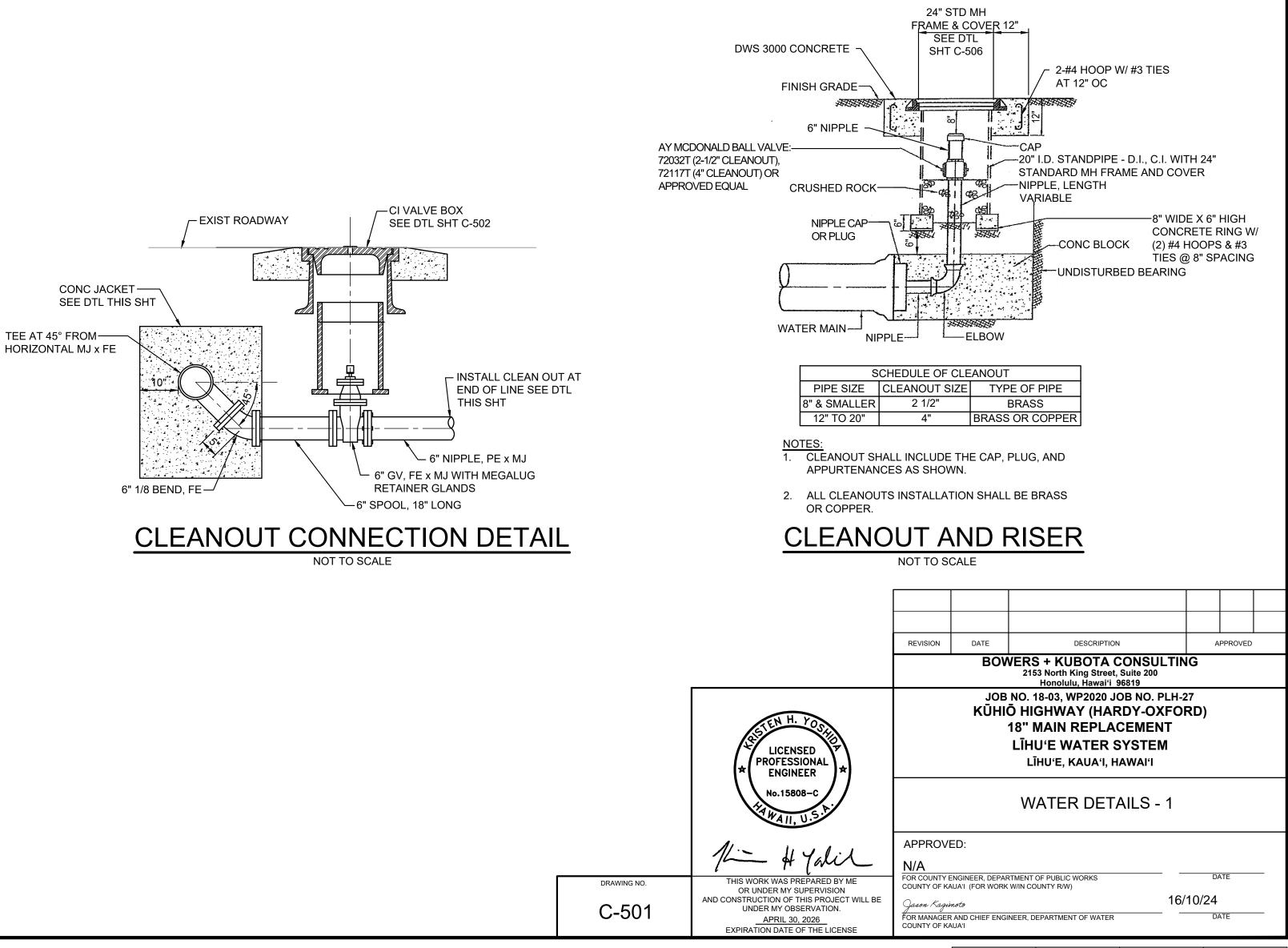
		REVISION	DATE	DESCRIPTION	I	APPI	ROVED		
		BOWERS + KUBOTA CONSULTING 2153 North King Street, Suite 200 Honolulu, Hawai'i 96819							
	KUSTEN H. YOSTID HULICENSED PROFESSIONAL ENGINEER ★	JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHUʻE WATER SYSTEM LĪHUʻE, KAUAʻI, HAWAIʻI							
	No.15808-C		PAVEM	IENT RESTOR	ATION PL	AN - 3	3		
	11- Hyalil	APPROVE	Aul		10	/24/24			
drawing no.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	FOR COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS       DATE         COUNTY OF KAUA'I (FOR WORK W/IN COUNTY R/W)       Jason Kagimoto         Jason Kagimoto       16/10/24         FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER       DATE							
	sheet <b>42</b> of <b>53</b> sheets		FILE	POCKET	FOLDER		NO.		



FC	DR ⊦	IOR	IZON	ITAI	_ TH	RUS	ST B	LOC	KS				
ESS	SURE 2	200 PS	61		PRESSURE 150 PSI								
DF S			TION		TYPE OF SOIL CONDITION								
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5.0	11.5	7.5	5.5	4.5	34.0	17.0	11.5	8.5	5.5	4.5	3.5		
1.5	16.0	11.0	8.0	6.5	48.0	24.0	16.0	12.0	8.0	6.0	5.0		
1.5	9.0	6.0	4.5	3.5	26.0	13.0	8.5	6.5	4.5	3.5	2.5		
6.0	4.5	3.0	2.5	2.0	13.0	6.5	4.5	3.5	2.0	1.5	1.5		
3.0	2.5	1.5	1.0	1.0	7.0	3.5	2.5	2.0	1.0	1.0	1.0		
7.0	20.5	13.5	10.5	8.5	60.5	30.5	20.5	15.5	10.5	8.0	6.5		
8.0	28.5	19.0	14.5	11.5	85.5	43.0	28.4	21.5	14.5	11.0	8.5		
0.5	15.5	10.5	8.0	6.5	46.5	23.5	15.5	11.5	8.0	6.0	5.0		
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DIMENSIONS AND DETAILS AS SHOWN ARE PROVIDED AS A GUIDE ONLY. THE CONTRACTOR SHALL SUBMIT THE FINAL DESIGN AND DETAILS TO THE MANAGER FOR REVIEW AND APPROVAL AFTER FIELD





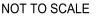
TOP	TOP VERTICAL THRUST BLOCK SCHEDULE															
E 250 I	PSI			Pl	RESSUR	RE 200	PSI			PI	RESSU	RE 150	PSI			
<	HANGER					CC	DNCRET	E BLO	СК		CONCRETE BLOCK				HANGER	
D		"X" BAR	А	В	С	D	HANGER	"X" BAR	А	В	С	D	HANGER	"X" BAR		
2'-6"	(2)#4	(2)#4	/													
2'-6"	(2)#3	(2)#3		/						E FIG			$\backslash$			
2'-6"	(2)#3	(2)#3			/				UN	DER 2	250 PS					
2'-6"	(2)#3	(2)#3				/					$\setminus$					
4'-6"	(2)#5	(2)#5					/			$\setminus$						
3'-0"	(2)#4	(2)#4						/								
2'-6"	(2)#3	(2)#3							/							
2'-6"	(2)#3	(2)#3								/						
5'-3"	(2)#6	(2)#6									/					
4'-0"	(2)#5	(2)#5			$\langle$							/				
2'-6"	(2)#4	(2)#4											/			
2'-6"	(2)#3	(2)#3	$\nearrow$											/		
6'-6"	(3)#7	(2)#7	6'-3"	6'-3"	6'-3"	5'-6"	(3)#7	(2)#7	6'-0"	6'-0"	6'-0"	4'-6"	(2)#7	(2)#7		
5'-6"	(2)#7	(2)#7	5'-6"	5'-6"	2'-9"	4'-6"	(2)#6	(2)#6	5'-0"	5'-3"	2'-9"	3'-9"	(2)#6	(2)#6		
4'-0"	(2)#5	(2)#5	5'-8"	4'-6"	3'-4"	2'-6"	(3)#4	(2)#4	6'-0"	4'-0"	2'-9"	2'-0"	(2)#4	(2)#4		
2'-6"	(2)#4	(2)#4	4'-3"	3'-9"	3'-3"	2'-0"	(2)#3	(2)#3	4'-0"	3'-0"	2'-6"	2'-0"	(2)#3	(2)#3		

1. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED IN THE FIELD. THE SCHEDULE, DIMENSIONS AND DETAILS AS SHOWN ARE PROVIDED AS A GUIDE ONLY. THE CONTRACTOR SHALL SUBMIT THE FINAL DESIGN AND DETAILS TO THE MANAGER FOR REVIEW AND APPROVAL AFTER FIELD VERIFICATION AND PRIOR TO INSTALLATION.

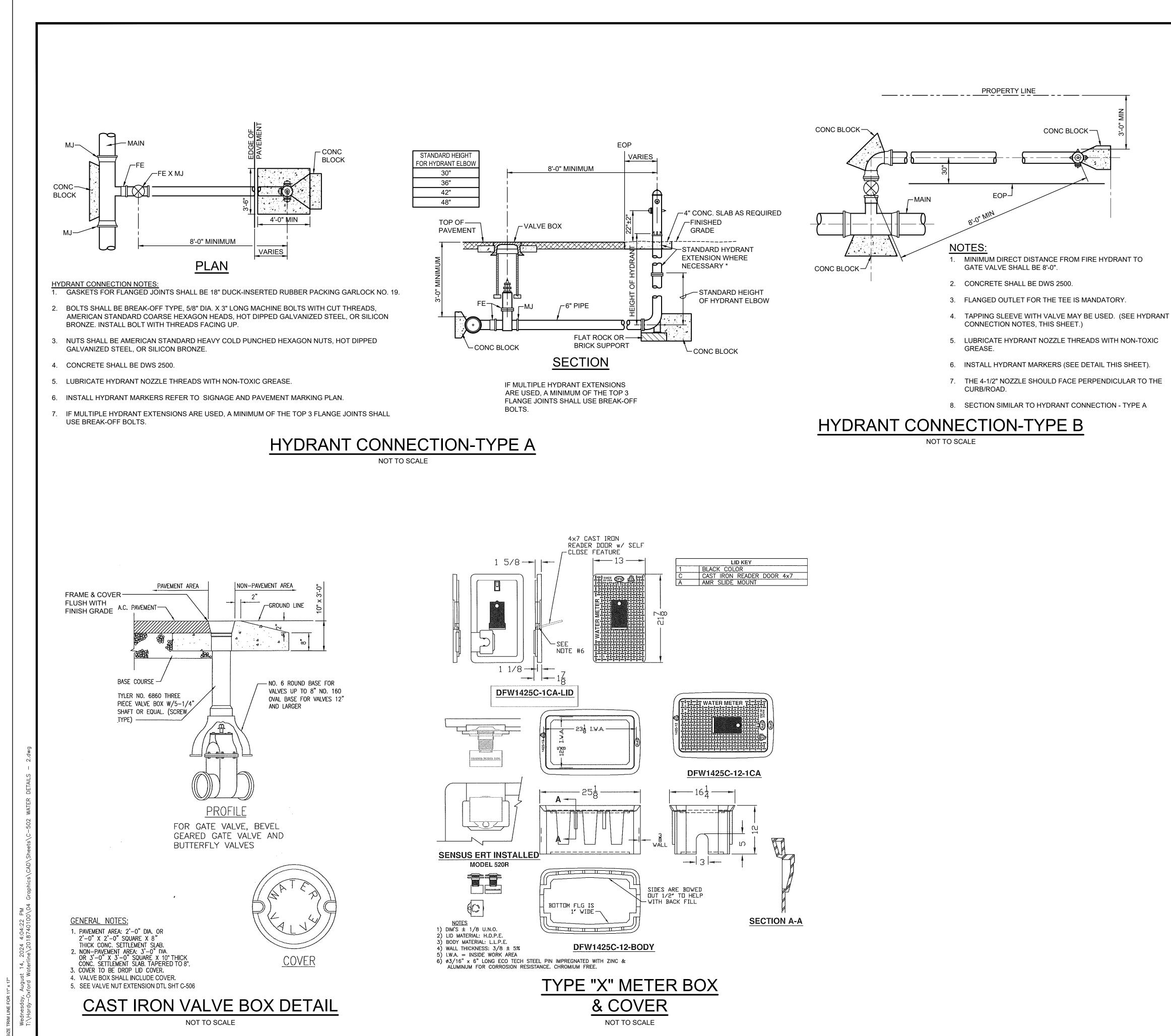
2. SCHEDULE IS NOT APPLICABLE TO BLOCKS FULLY OR PARTLY SUBMERGED IN WATER.

3. SAFETY FACTOR 1.5 BASED ON PIPE LOCATION MINIMUM 2' BELOW GROUND.

# **TYPICAL THRUST BLOCK AT VERTICAL BENDS**



SHEET 43 OF 53 SHEETS



4" SPACING 4" SPACING ─BLUE REFLECTIVE MARKER

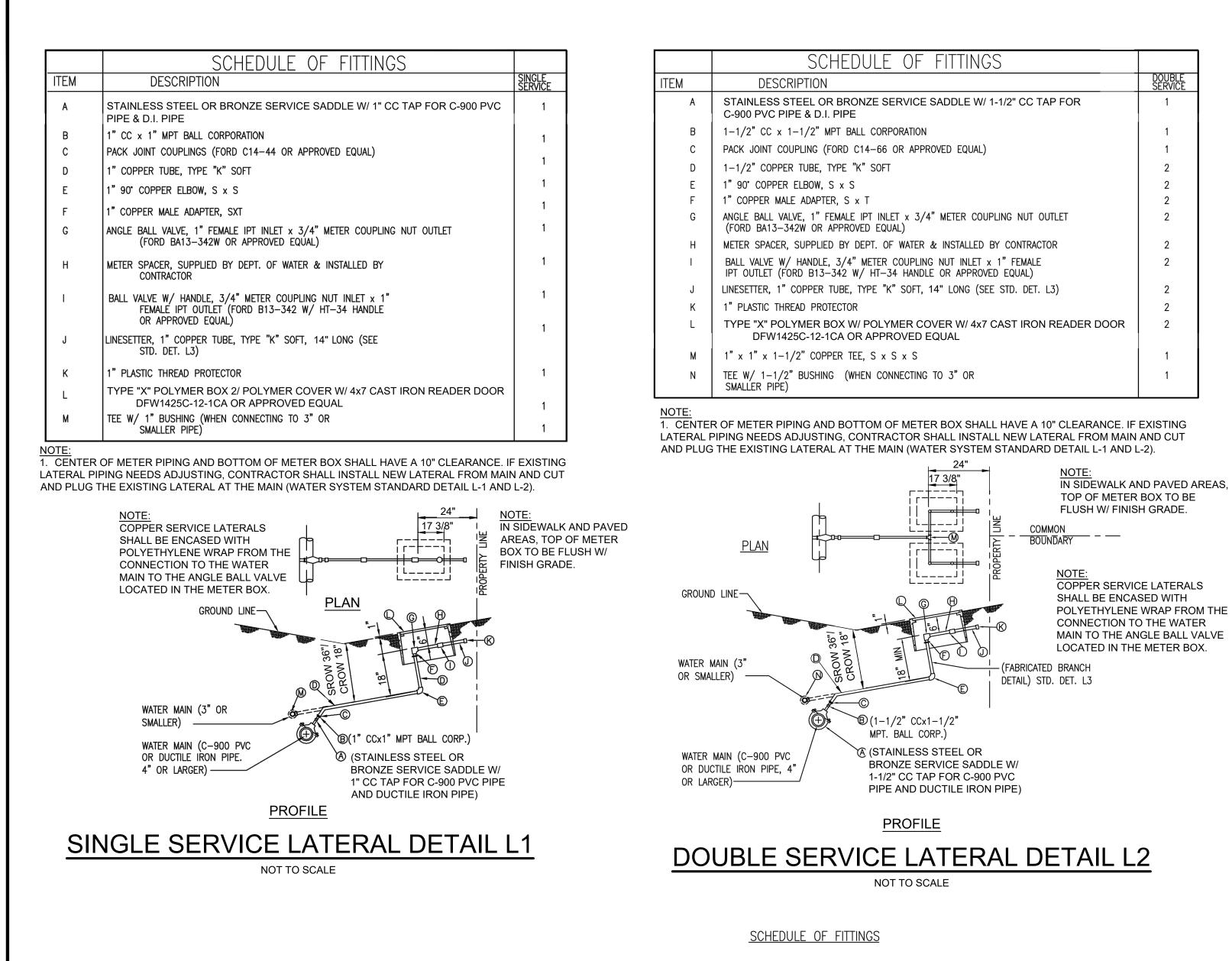
### FOUR LANE STREET

### HYDRANT MARKER LOCATION NOT TO SCALE

# HYDRANT CONNECTION NOTES

- 1. GASKET FOR FLANGED JOINT SHALL BE 1/8" DUCK-INSERTED RUBBER PACKING GARLOCK NO. 19.
- 2. BOLT SHALL BE BREAK-OFF TYPE, 5/8" DIA. x 3" LONG MACHINE BOLTS WITH CUT THREADS, AMERICAN STANDARD COARSE HEXAGON HEADS, HOT-DIPPED GALVANIZED STEEL. INSTALL BOLT WITH THREADS FACING UP.
- 3. NUTS SHALL BE AMERICAN STANDARD HEAVY COLD PUNCHED HEXAGON NUTS, HOT-DIPPED GALVANIZED STEEL.
- 4. CONCRETE SHALL BE DWS 2500.
- 5. REFER TO HYDRANT CONNECTION DETAILS THIS SHEET.
- 6. FLANGED OUTLET FOR THE TEE IS MANDATORY.
- 7. TAPPING SLEEVE WITH TAPPING VALVE ASSEMBLY MAY BE USED FOR CONNECTION TO EXIST MAIN.
- 8. LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.
- 9. INSTALL HYDRANT MARKERS. (SEE HYDRANT MARKER LOCATION DETAIL THIS SHEET.)

		REVISION	DATE	DESCRIPTION		A	PPROVED		
			BOV	VERS + KUBOTA C 2153 North King Street, S Honolulu, Hawai'i 90	Suite 200	G			
	+ + + + + + + LICENSED PROFESSIONAL ENGINEER ★	JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHUʻE WATER SYSTEM LĪHUʻE, KAUAʻI, HAWAIʻI							
	No.15808-C			WATER DETA	NILS - 2				
	11- Hyalic	APPROVE <u>N/A</u>							
DRAWING NO.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION			TMENT OF PUBLIC WORKS W/IN COUNTY R/W)			ATE		
C-502	AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	Jason Kagimu FOR MANAGER COUNTY OF KA	AND CHIEF ENGI	NEER, DEPARTMENT OF WATER	16/	10/24 D <sup>/</sup>	ATE		
	sheet <b>44</b> of <b>53</b> sheets		FILE	POCKET	FOLDER		NO.		



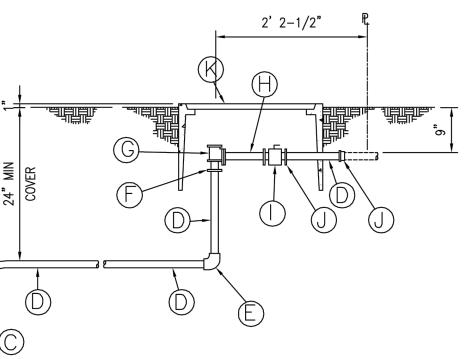
ITEM	DESCRIPTION	SIZE
A	SERVICE SADDLE (SIZE DEPENDS UPON MAIN)	2" CC TAP
В	BALL CORPORATION (FORD FB 400 OR APPROVED EQUAL)	2" CC X MPT
С	PACK JOINT COUPLING (FORD C14–77 OR APPROVED EQUAL)	2"
D	COPPER TUBE TYPE "K" SOFT	2"
E	90° COPPER ELBOW	2"
F	COPPER MALE ADAPTER	2" X 1 1/2"
G	ANGLE BALL VALVE (FORD BFA13–666W OR APPROVED EQUAL)	1 1/2"
Н	METER SPACER (TO BE SUPPLIED BY THE DEPT OF WATER & INSTALLED BY CONTRACTOR)	1 1/2"
	BALL VALVE (FORD BF13–676W W/ HB67S OR APPROVED EQUAL)	1 1/2"
J	COPPER MALE ADAPTER	2"
К	TYPE "X" CONC. METER BOX W/ C.I. COVER	

I. CENTER OF METER PIPING AND BOTTOM OF METER BOX SHALL HAVE A 10" CLEARANCE. IF EXISTING

LATERAL PIPING NEEDS ADJUSTING, CONTRACTOR SHALL INSTALL NEW LATERAL FROM MAIN AND CUT AND PLUG THE EXISTING LATERAL AT THE MAIN (WATER SYSTEM STANDARD DETAIL L-1 AND L-2).

STAINLESS STEEL OR BRONZE SERVICE SADDLE W/ 2" CC TAP FOR C-900 PVC PIPE AND DUCTILE IRON PIPE)

DESCRIPTION	DOUBLE SERVICE
AINLESS STEEL OR BRONZE SERVICE SADDLE W/ 1-1/2" CC TAP FOR 900 PVC PIPE & D.I. PIPE	1
1/2" CC x 1–1/2" MPT BALL CORPORATION	1
CK JOINT COUPLING (FORD C14–66 OR APPROVED EQUAL)	1
1/2" COPPER TUBE, TYPE "K" SOFT	2
90° COPPER ELBOW, S x S	2
COPPER MALE ADAPTER, S x T	2
GLE BALL VALVE, 1"FEMALE IPT INLET x 3/4"METER COUPLING NUT OUTLET DRD BA13–342W OR APPROVED EQUAL)	2
IER SPACER, SUPPLIED BY DEPT. OF WATER & INSTALLED BY CONTRACTOR	2
LL VALVE W/ HANDLE, 3/4" METER COUPLING NUT INLET x 1" FEMALE OUTLET (FORD B13–342 W/ HT–34 HANDLE OR APPROVED EQUAL)	2
ESETTER, 1" COPPER TUBE, TYPE "K" SOFT, 14" LONG (SEE STD. DET. L3)	2
PLASTIC THREAD PROTECTOR	2
PE "X" POLYMER BOX W/ POLYMER COVER W/ 4x7 CAST IRON READER DOOR DFW1425C-12-1CA OR APPROVED EQUAL	2
x 1" x 1-1/2" COPPER TEE, S x S x S	1
: W/ 1—1/2" BUSHING (WHEN CONNECTING TO 3" OR ALLER PIPE)	1



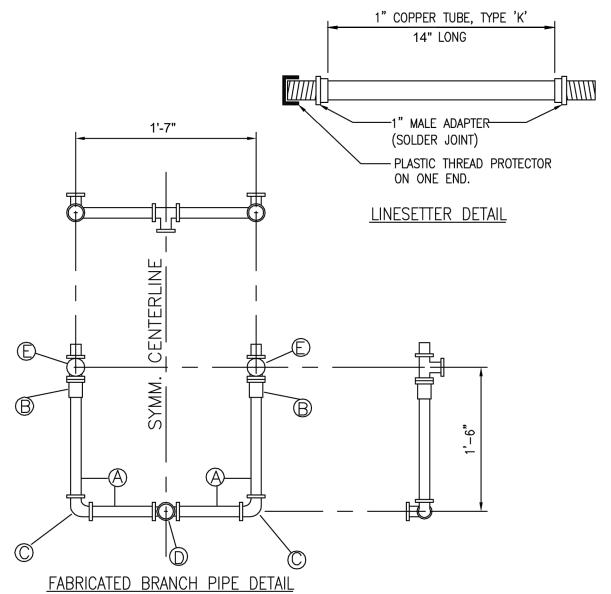
### PROFILE

## 1 1/2" INCH METER DETAIL L5

NOT TO SCALE

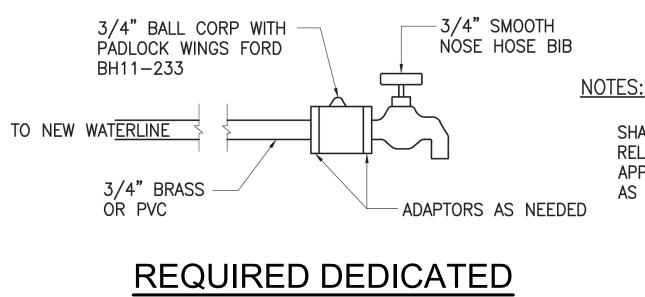
	SCHEDULE OF COPPER FITTINGS		
NO.	DESCRIPTION	SERVICE	BERVICE
A	1" COPPER TUBE, TYPE 'K'	1	1
В	1" COPPER MALE ADAPTER	1	2
C	1" X 90° ELBOW (CAST SOLDER)	1	2
D	1" X 1" X 1 1/2" TEE, (CAST SOLDER)		1
E	ANGLE VALVE, 1" FEMALE IPT, INLET 3/4" METER COUPLING NUT OUTLET (FORD KV13–342W OR APPROVED EQUAL)	1	2

1. CENTER OF METER PIPING AND BOTTOM OF METER BOX SHALL HAVE A 10" CLEARANCE. IF EXISTING LATERAL PIPING NEEDS ADJUSTING, CONTRACTOR SHALL INSTALL NEW LATERAL FROM MAIN AND CUT AND PLUG THE EXISTING LATERAL AT THE MAIN (WATER SYSTEM STANDARD DETAIL L-1 AND L-2).



## FABRICATED BRANCH PIPE AND LINESETTER DETAIL L3

NOT TO SCALE



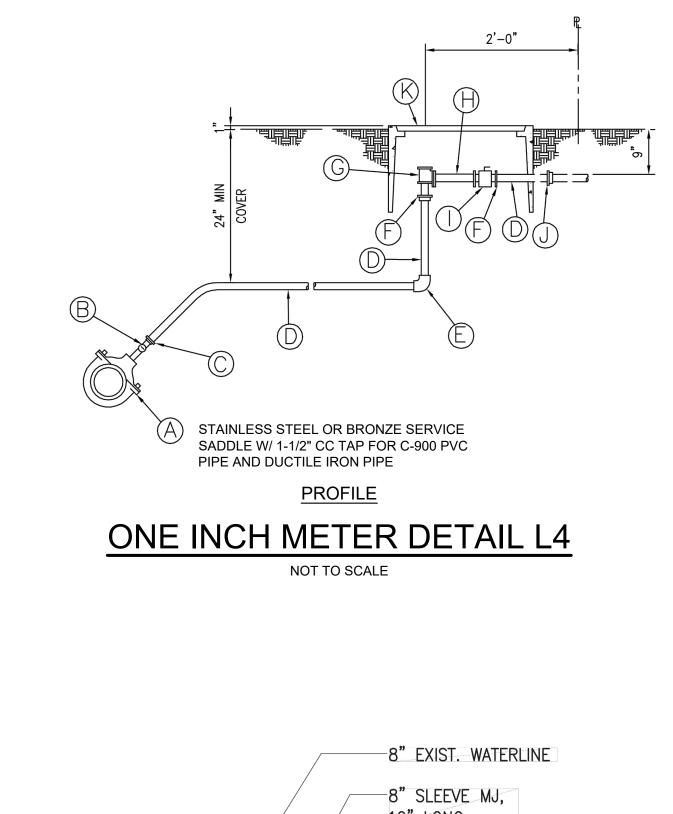
SAMPLING POINTS

NOT TO SCALE

ITEM	DESCRIPTION	SIZE
А	SERVICE SADDLE (SIZE DEPENDS UPON MAIN)	1 1/2" CC TAP
В	BALL CORPORATION (FORD FB 400 OR APPROVED EQUAL)	1 1/2" CC X 1 1/2" MPT
С	PACK JOINT COUPLING (FORD C14-66 OR APPROVED EQUAL)	1 1/2"
D	COPPER TUBE TYPE "K" SOFT	1 1/2"
Е	90° COPPER ELBOW	1 1/2"
F	COPPER MALE ADAPTER	1 1/2"X 1"
G	ANGLE BALL VALVE (FORD BA13-444W OR APPROVED EQUAL)	1"
Н	METER SPACER (TO BE SUPPLIED BY THE DEPT. OF WATER & INSTALLED BY CONTRACTOR)	1"
I	BALL VALVE(FORD B13-444W W/HT 34 OR APPROVED EQUAL)	1"
J	COPPER MALE ADAPTER	1 1/2"
К	TYPE "X" CONC. METER BOX W/ C.I. COVER	

1. CENTER OF METER PIPING AND BOTTOM OF METER BOX SHALL HAVE A 10" CLEARANCE. IF EXISTING LATERAL PIPING NEEDS ADJUSTING, CONTRACTOR SHALL INSTALL NEW LATERAL FROM MAIN AND CUT AND PLUG THE EXISTING LATERAL AT THE MAIN (WATER SYSTEM STANDARD DETAIL L-1 AND L-2).

#### SCHEDULE OF FITTINGS

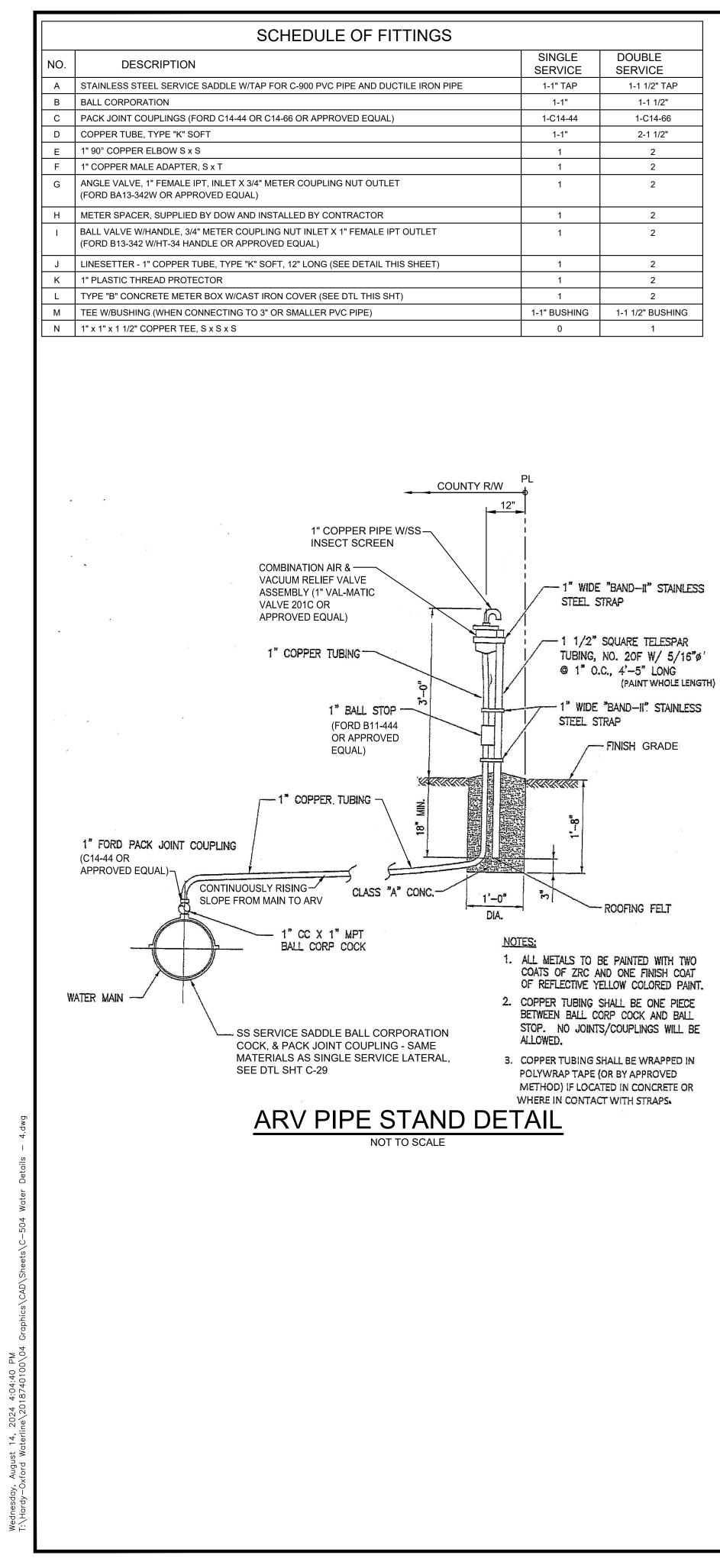


SHALL BE USED DURING DISINFECTION RELATED TO WATER NOTES AND PLACED APPROXIMATELY EVERY 1000 FEET OR AS DEEMED BY MANAGER

12" LONG 8" NEW WATERLINE

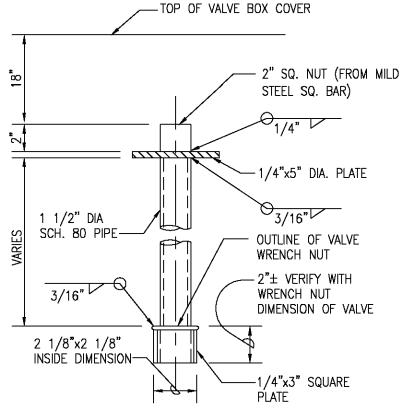
# WATER CONN DETAIL

NOT TO SCALE REVISION DESCRIPTION APPROVED DATE **BOWERS + KUBOTA CONSULTING** 2153 North King Street, Suite 200 Honolulu, Hawai'i 96819 JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) EN H. Y **18" MAIN REPLACEMENT** LĪHU'E WATER SYSTEM LICENSED LĪHU'E, KAUA'I, HAWAI'I PROFESSIONAL ENGINEER No.15808 WATER DETAILS - 3 APPROVED: # Yalil FOR COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS DATE THIS WORK WAS PREPARED BY ME DRAWING NO COUNTY OF KAUA'I (FOR WORK W/IN COUNTY R/W) OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE 16/10/24 Jason Kagimoto C-503 UNDER MY OBSERVATION. FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER DATE APRIL 30, 2026 EXPIRATION DATE OF THE LICENSE COUNTY OF KAUA'I SHEET 45 OF 53 SHEETS



F SIZE TRIM LINE FOR 11" x 17"

	TABLE 1
NO.	DISTANCE BETWEEN LATERAL BRANCH FOR DSL (FT)
C-1 & C-2	5.50
D-1 & D-2	2.00
D-3 & D-4	3.50
D-20 & C-21	3.00

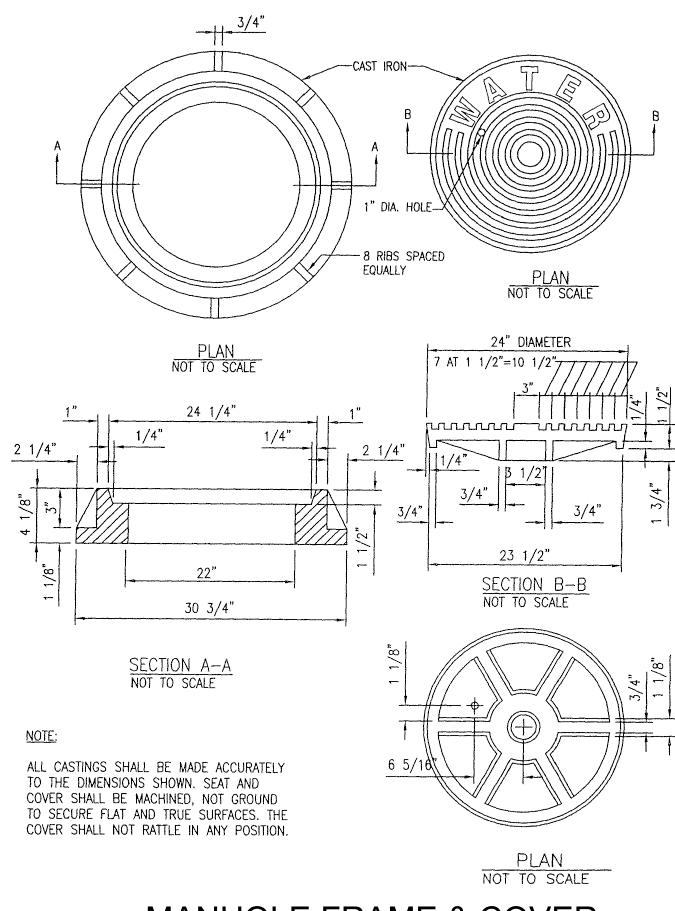


### NOTES:

- FURNISH AND INSTALL VALVE EXTENSION TO 18" FROM TOP OF VALVE BOX COVER.
- 2. VALVE EXTENSION SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- 3. FOR VALVE OPERATORS DEEPER THAN 3.5' TO FINISH GRADE.

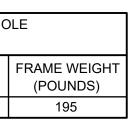
## VALVE NUT EXTENSION

NOT TO SCALE

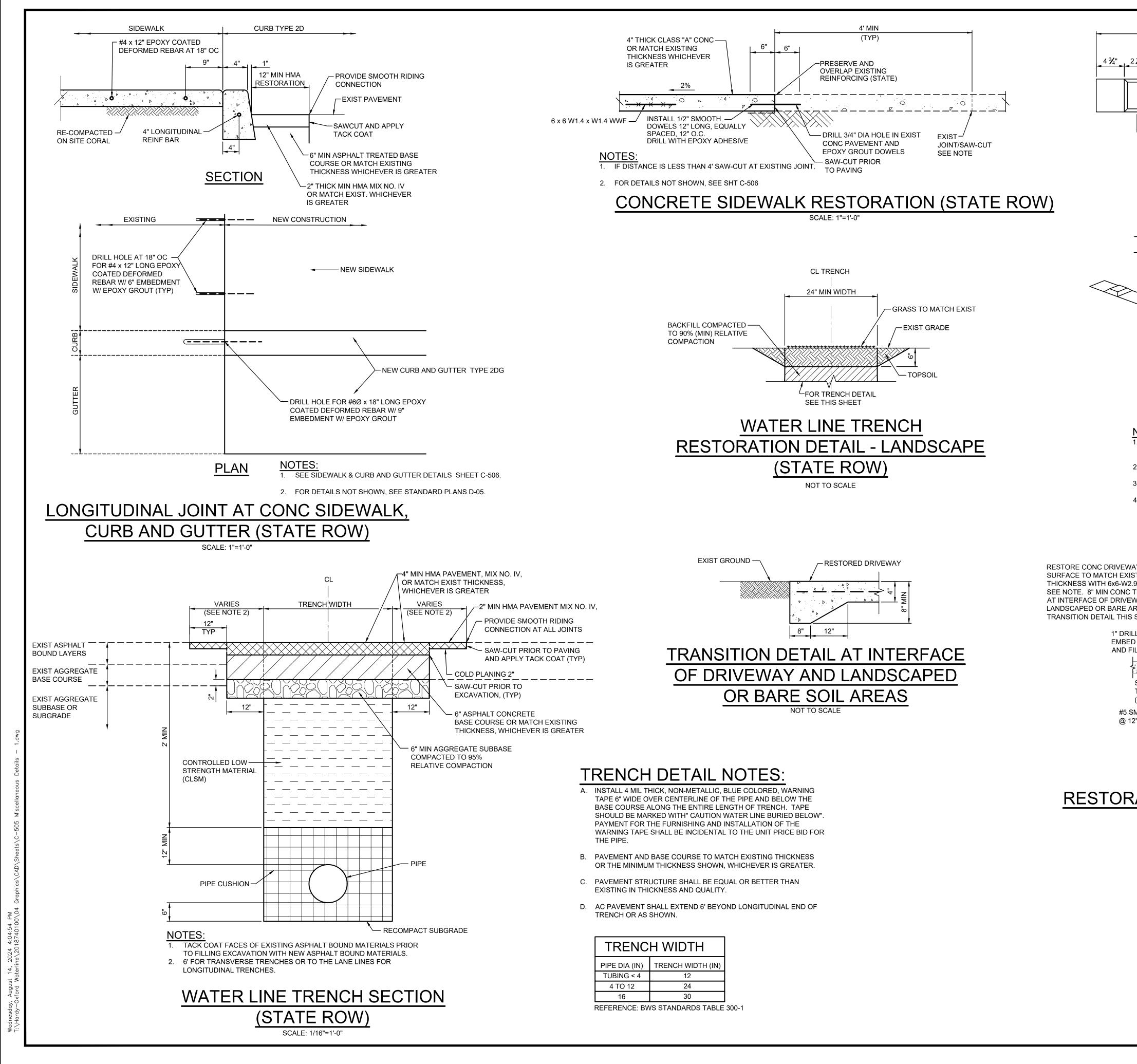


	/EIGHT FOR MANHC RS AND FRAMES	
MANHOLE/VALVE BOX SIZE	COVER WEIGHT (POUNDS)	
24-INCH	140	



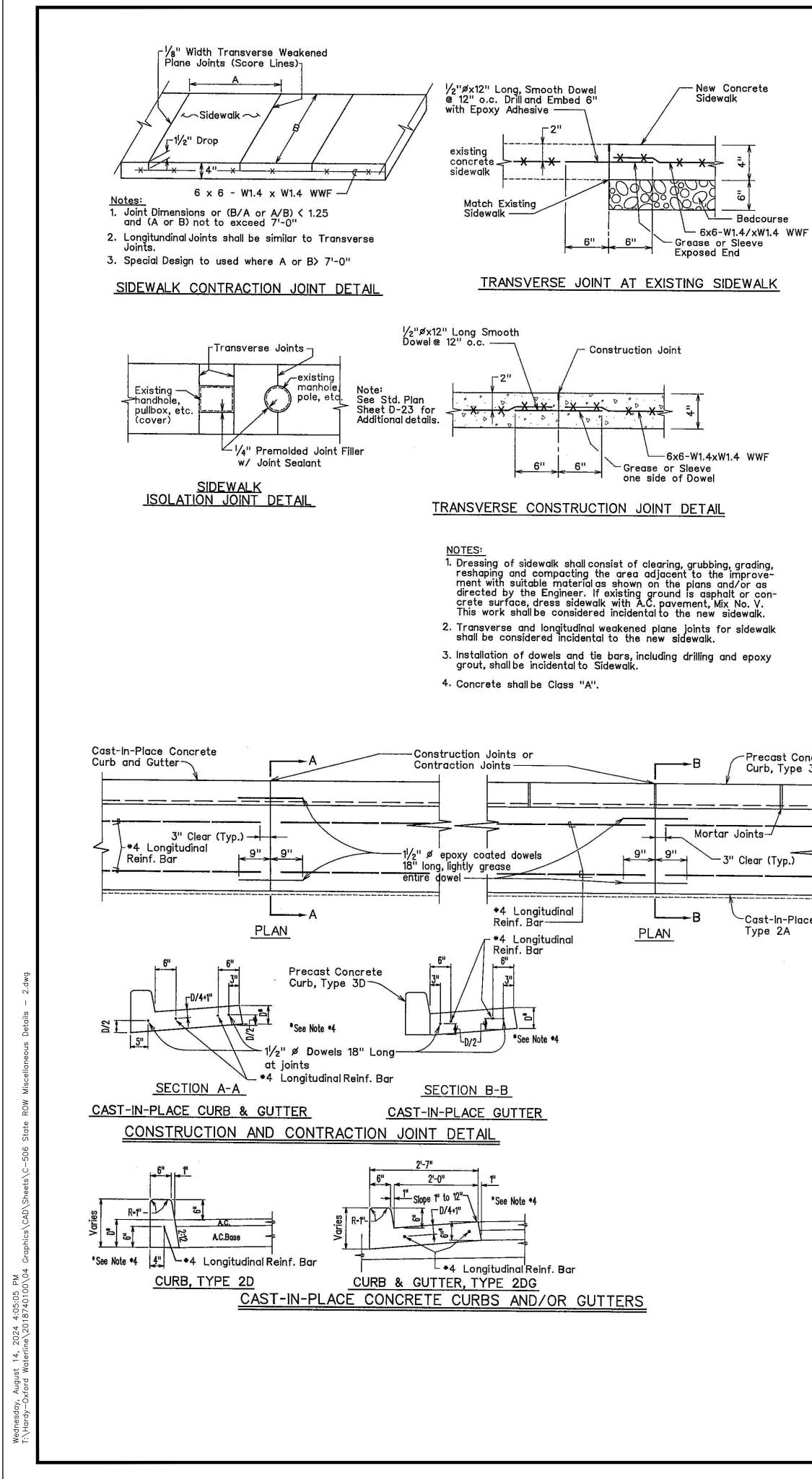


		REVISION	DATE	DESCRIPTION		APPROVED	)	
		BOWERS + KUBOTA CONSULTING 2153 North King Street, Suite 200 Honolulu, Hawai'i 96819						
	LICENSED + LICENSED PROFESSIONAL ENGINEER ★	JOB NO. 18-03, WP2020 JOB NO. PLH-27 KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHUʻE WATER SYSTEM LĪHUʻE, KAUAʻI, HAWAIʻI						
	No.15808-C			WATER DETA	AILS - 4			
	1- Hyalic	approve N/A				DATE		
DRAWING NO.	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION			RTMENT OF PUBLIC WORKS W/IN COUNTY R/W)		DATE		
C-504	AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. <u>APRIL 30, 2026</u> EXPIRATION DATE OF THE LICENSE	Jason Kagimoto 16/10/24 FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER DATE						
	sheet <b>46</b> of <b>53</b> sheets		FILE	POCKET	FOLDER	NO		

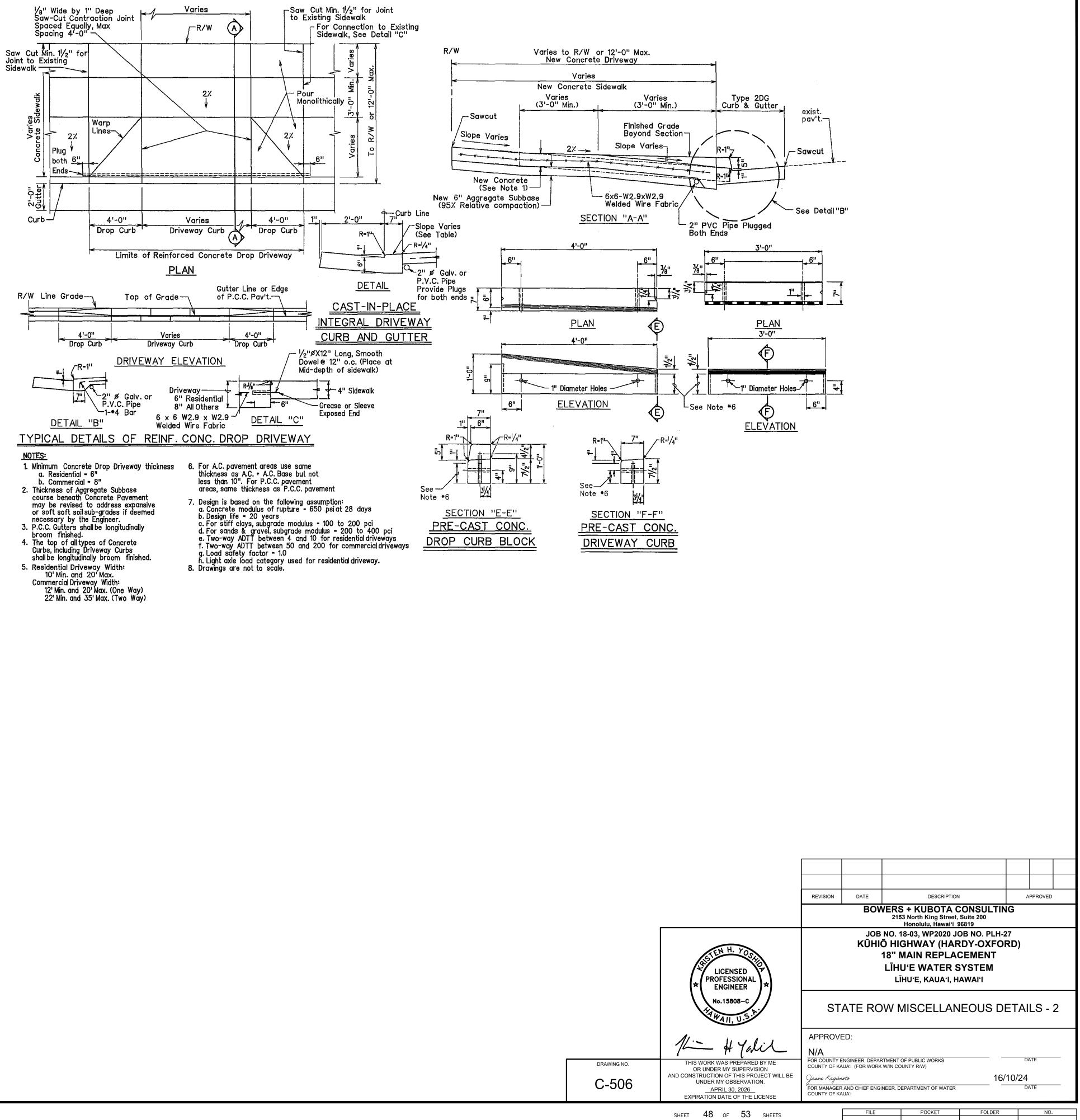


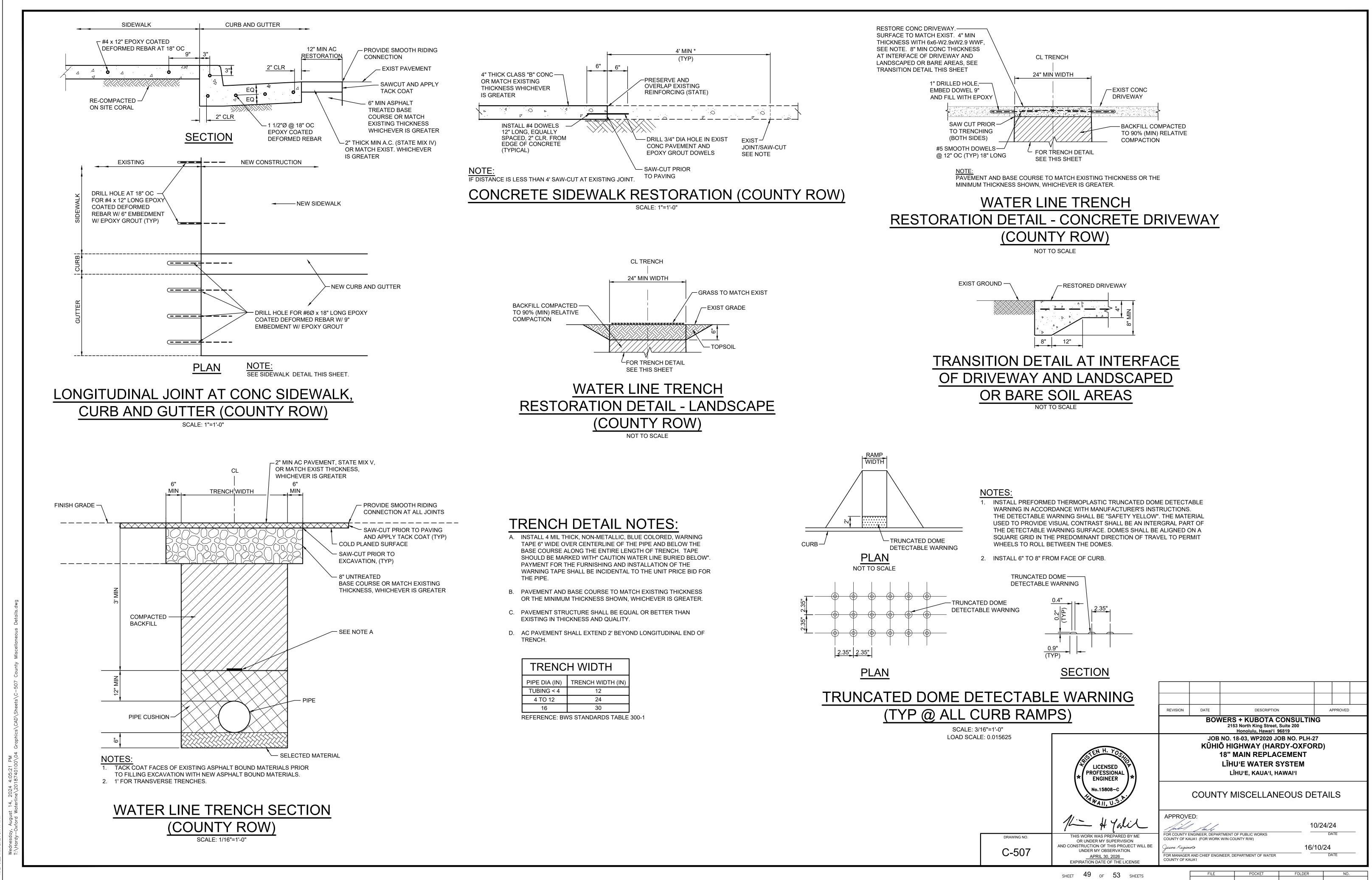
TRENCH WIDTH					
PIPE DIA (IN)	TRENCH WIDTH (IN)				
TUBING < 4	12				
4 TO 12	24				
16	30				

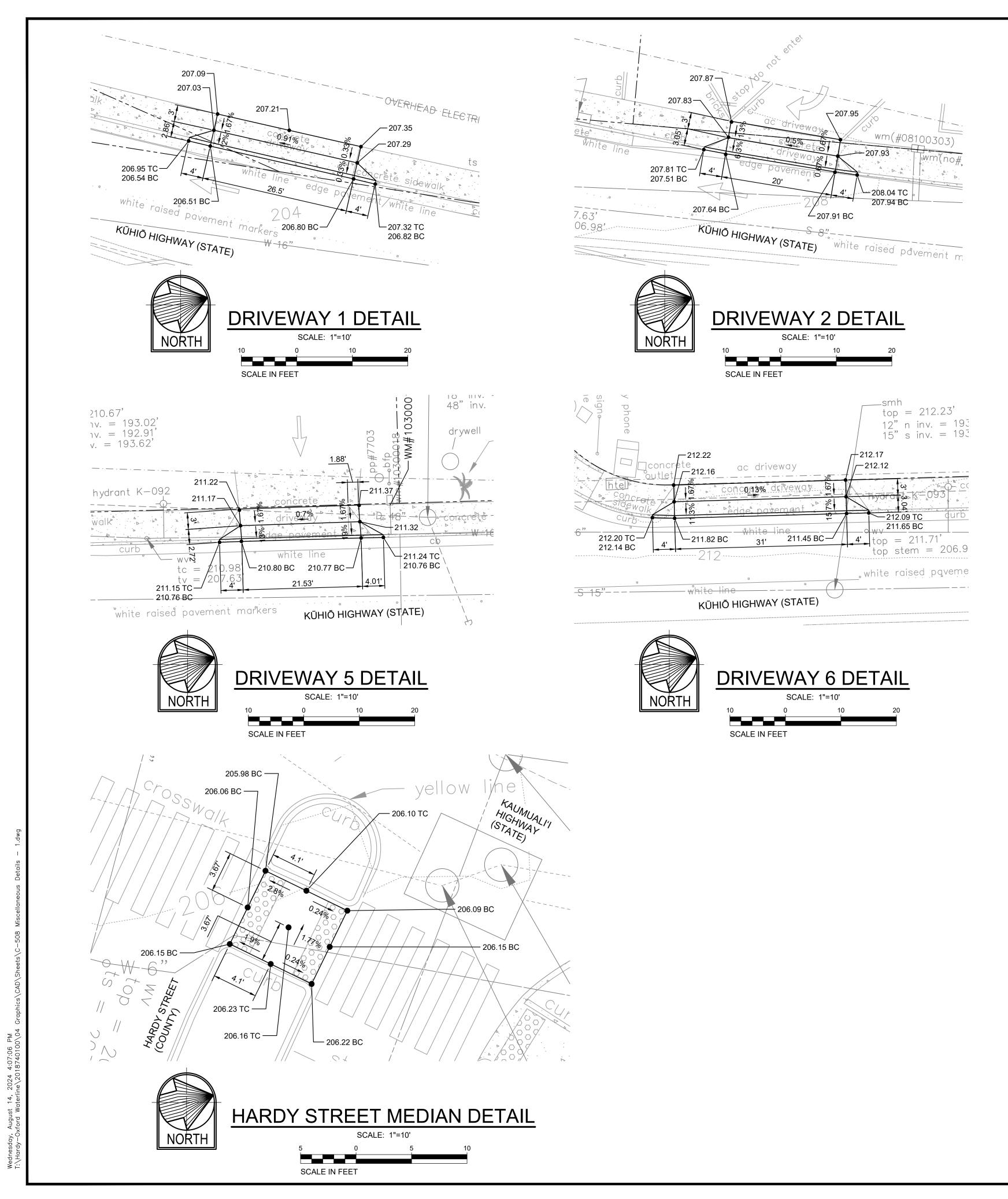
			10'-0"					-	
<u>%</u> "	2'-9 ½"	2 1/2"	2'-9 1⁄2"	<u>→ </u> = <sup>2 ½</sup> "→ =	:	2'-9 1⁄2"	<u>- =<sup>2 ½</sup>" - =<sup>4 ¾</sup></u>		
	36" (TYPICAL)								
		-1	TOP VIEW LANE LINE	365 N	IIL HEIGHT	ED ON 36" OC , INCLUDING 100 MI O APPROXIMATEL`		'IDTH	
			2.5" LENGTH MINII	MUM					
100 MIL ( 125 MIL (							365 MIL MIN		
	•		SIDE VIE	W					
						2.5" LENGTH MIN	ł		
							1		
								4"	
<u>PERS</u>	PECTIVE VIE	W					<u>w</u>		
			LKYD-BASED COMPOUND	FORMULATEI	D				
	ILED PAVEMENT MARKI		TRIPES AS LANE LINE.						
3. INSTALL YI	ELLOW PROFILED THER	MOPLASTIC	STRIPES FOR CENTERLIN	E PASSING Z	ONE.				
	WITH CENTERLINE MILL LASTIC STRIPES WITHO		STRIPS, INSTALL STANDAF PROFILES.	RD YELLOW					
	PROFI	LED			C ST	RIPING			
ΑY			NOT TO SCALE	Ξ					
ST. 4" MIN 9xW2.9 WWF, THICKNESS VAY AND REAS, SEE		NCH							
SHEET .LED HOLE, D DOWEL 9"	24" MIN	WIDTH							
LL WITH EPOX	Y								
SAW CUT PRIC	DR-		BACKFILL COM TO 90% (MIN) R						
(BOTH SIDES) MOOTH DOWEI 2" OC (TYP) 12"	LONG FOR IN	ENCH DETA	COMPACTION						
	AND BASE COURSE TO	MATCH EXIS	TING THICKNESS OR THE						
	ICKNESS SHOWN, WHIC								
_			CRETE DR	IVEW	'AY				
	(STATE		<u>V)</u>						
		O ON LE		REVISION	DATE	DESCRIP	TION	APPROVED	
					BOV	VERS + KUBOTA 2153 North King Stro Honolulu, Hawa	eet, Suite 200	NG	
			LICENSED PROFESSIONAL		KŪHI	NO. 18-03, WP2020 Ō HIGHWAY (H) 18" MAIN REPL LĪHU'E WATEF LĪHU'E, KAUA'I	ARDY-OXF( .ACEMENT R SYSTEM		
* ENGINEER * No.15808-C			ST	STATE ROW MISCELLANEOUS DETAILS - 1					
		11.	H Y L A	APPROV	ED:				
	DRAWING NO.	0	WORK WAS PREPARED BY ME R UNDER MY SUPERVISION	COUNTY OF K	AUA'I (FOR WORK	RTMENT OF PUBLIC WORKS ( W/IN COUNTY R/W)			
	C-505	ι	RUCTION OF THIS PROJECT WILL BE JNDER MY OBSERVATION. <u>APRIL 30, 2026</u> RATION DATE OF THE LICENSE	J <i>ason Kagu</i> FOR MANAGEF COUNTY OF KI	AND CHIEF ENG	INEER, DEPARTMENT OF WAT	ĒR	6/10/24 DATE	
		SHEET	47 OF 53 SHEETS		FILE	POCKET	FOLDER	NO.	



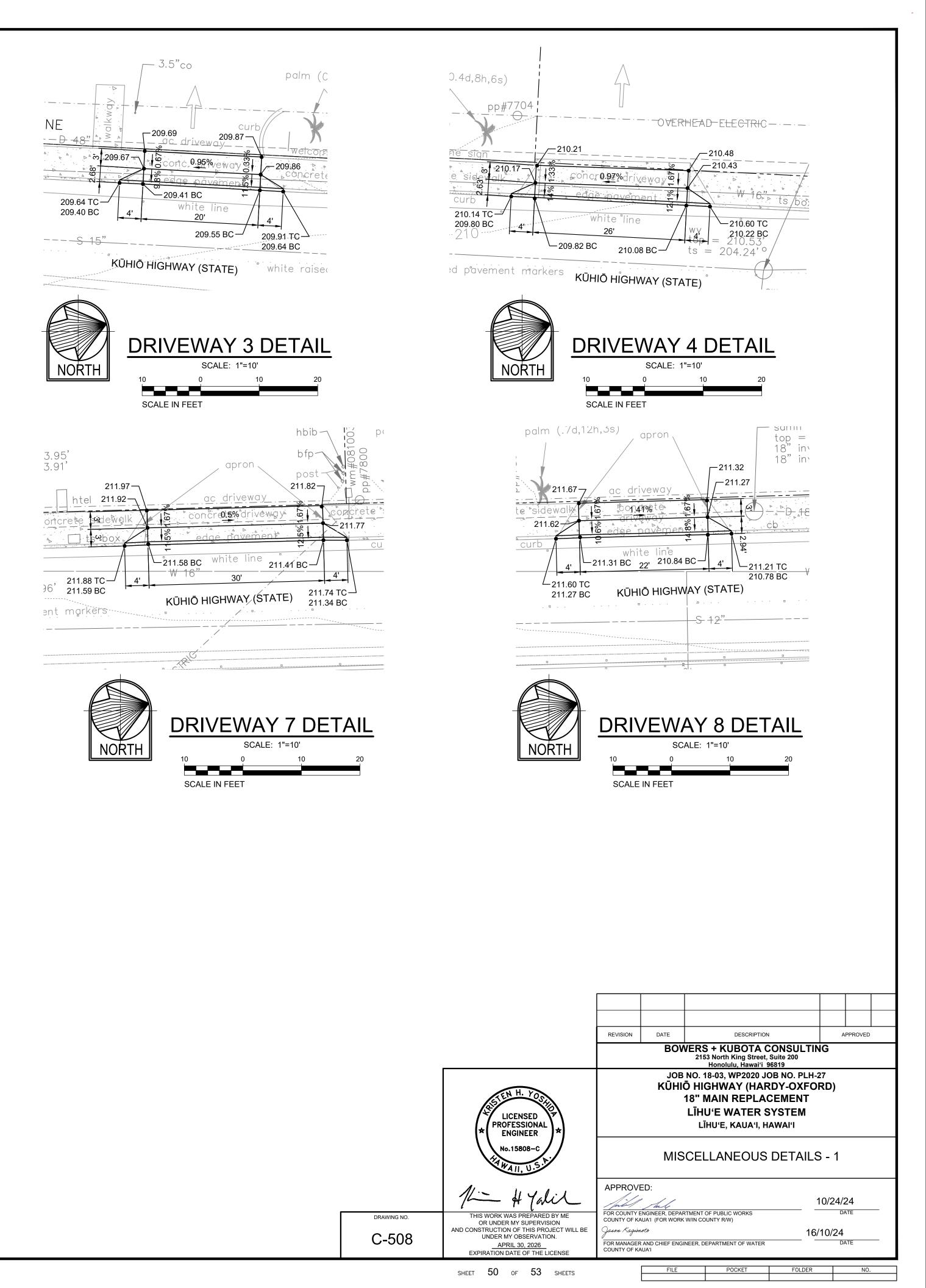
-Precast Concrete Curb, Type 3D -Cast-In-Place Gutter Type 2A

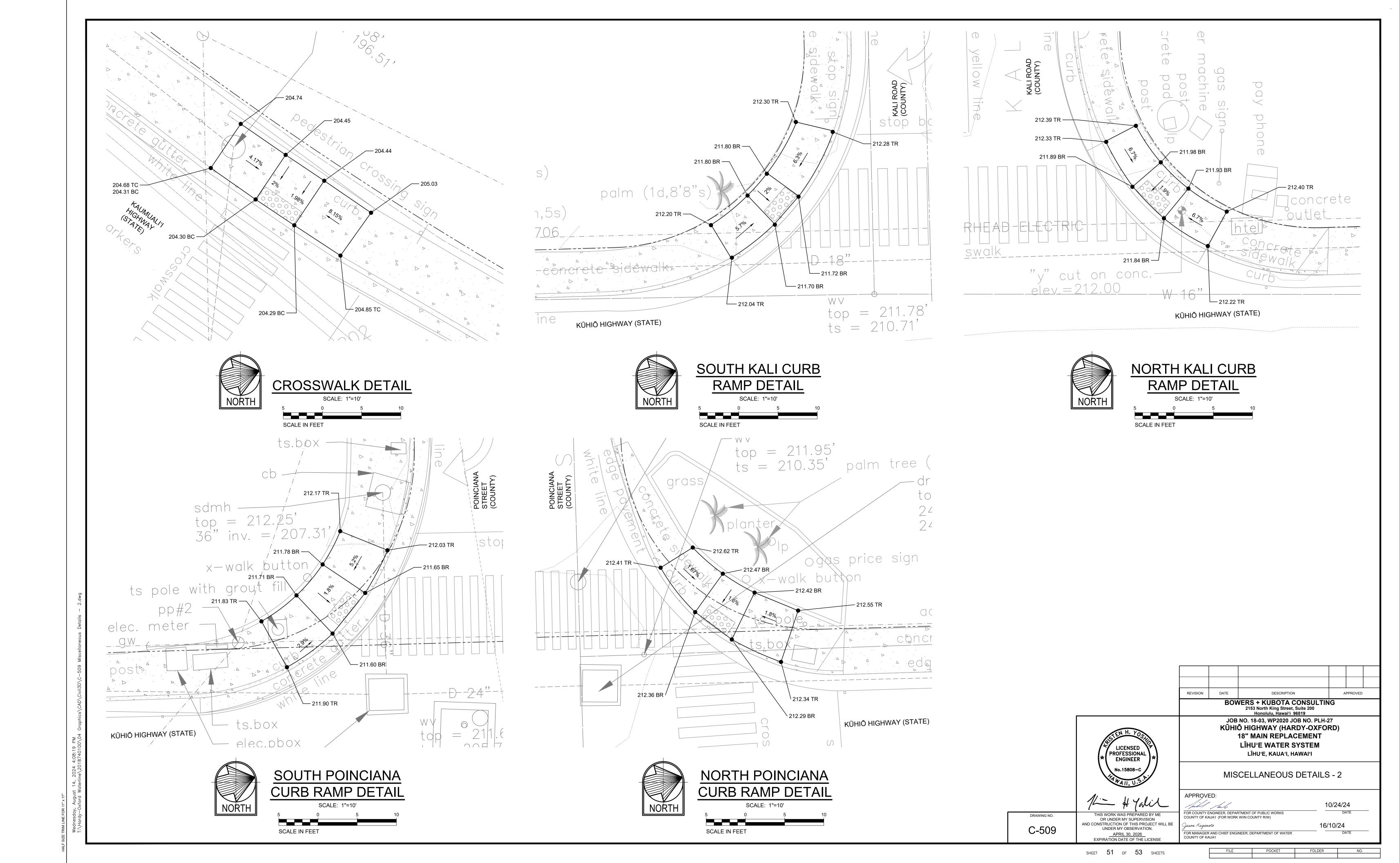


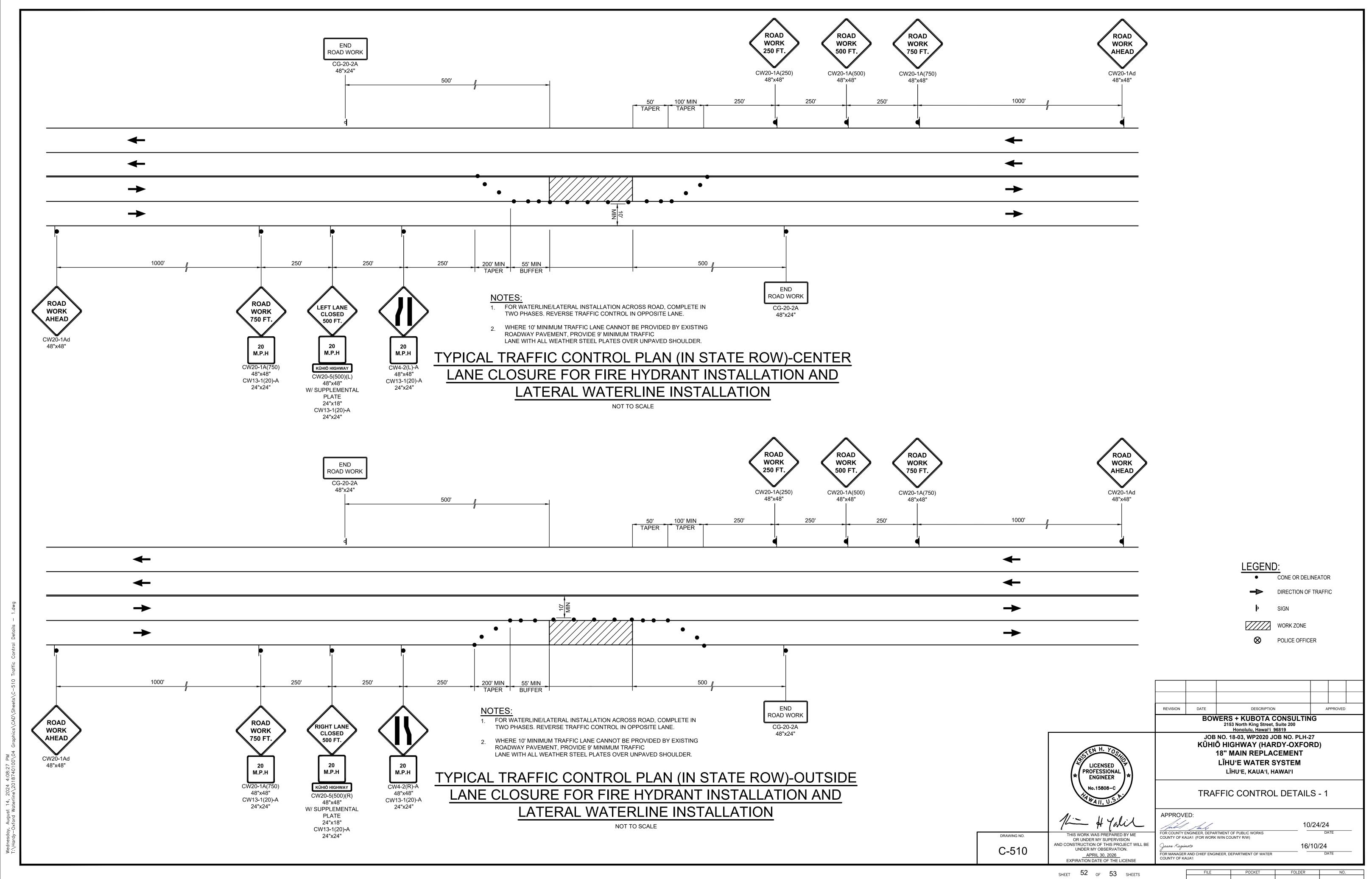


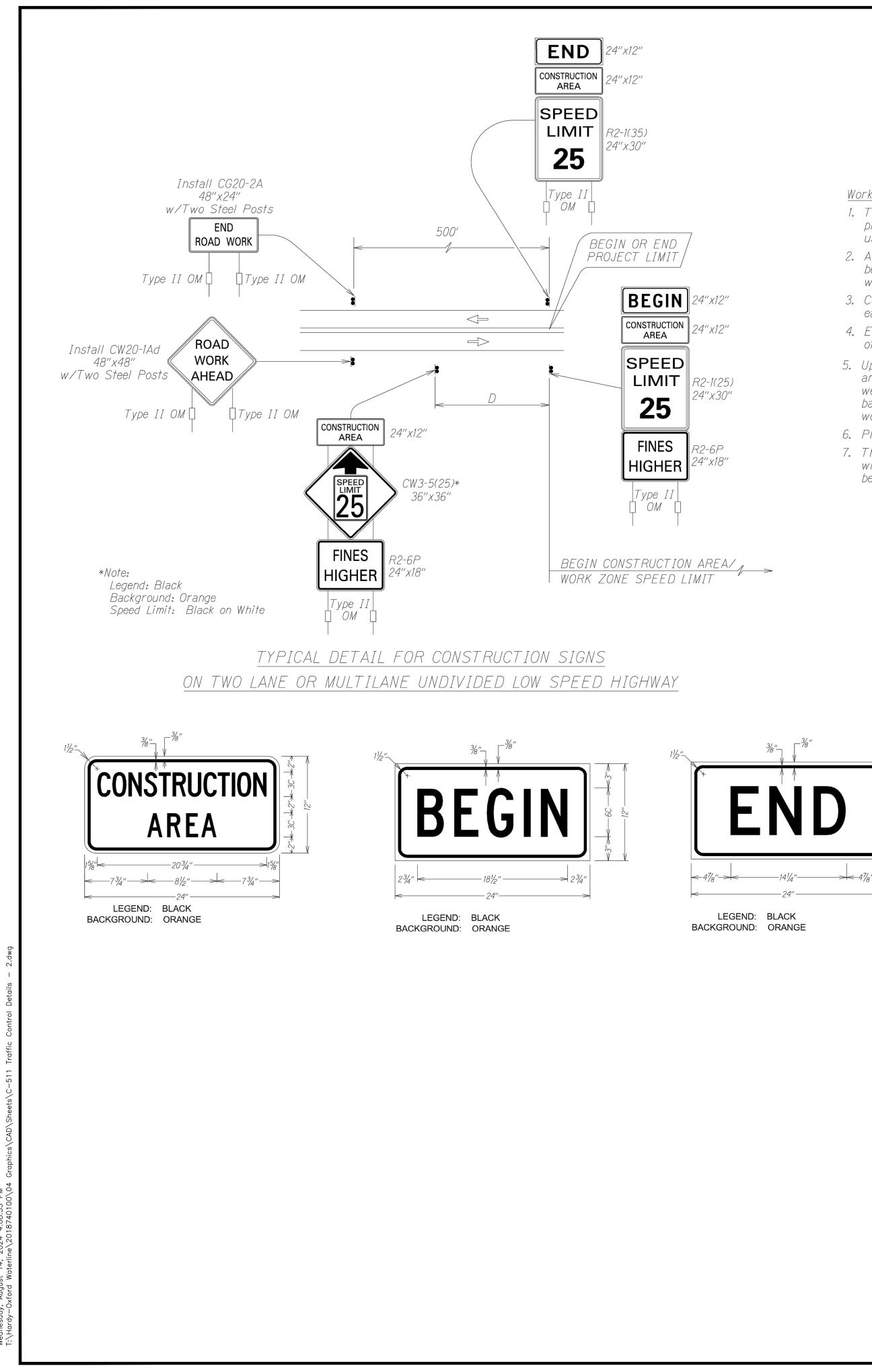


LF SIZE TRIM LINE FOR



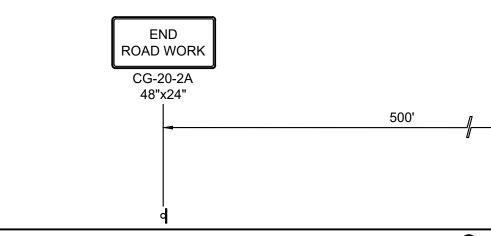




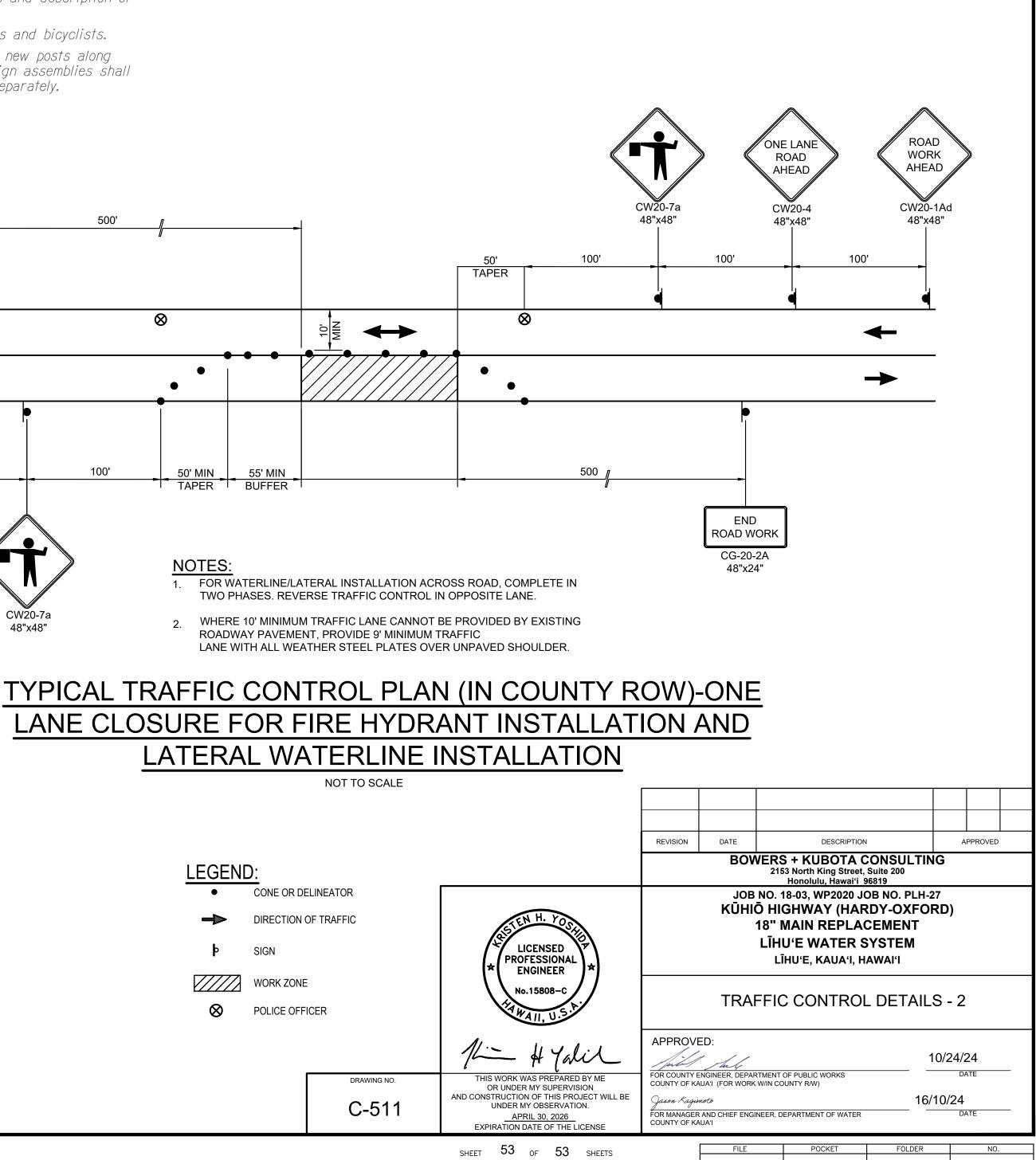


#### Work Zone Notes:

- 1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
- 2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(25) and CW3-5(25) with "CONSTRUCTION AREA" and R2-6P "FINES HIGHER" Supplemental Signs).
- 3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
- 4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM.
- 5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations. Dates, times, locations and description of work for each sign location shall be provided to the engineer in writing.
- 6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
- 7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to various pay items and shall not be paid for separately.



100' 100' 100' ROAD WORK ONE LANE ROAD AHEAD AHEAD CW20-1Ad CW20-4 CW20-7a 48"x48" 48"x48" 48"x48"



-><-4<sup>7</sup>/<sub>8</sub>"->