LOCATION VICINITY MAP

PROJECT



NO.	NO.	SHEET DESCRIPTION	
1	C001	TITLE SHEET AND INDEX TO DRAWINGS	
2	C002	CONSTRUCTION NOTES 1	
3	C003	CONSTRUCTION NOTES 2	
4	C004	CONSTRUCTION NOTES 3	
5	C005	DEMOLITION PLAN	
6	C006	OVERALL SITE AND UTILITY PLAN	
7	C007	SIGNING AND STRIPING PLAN	
8	C008	OVERALL GRADING AND DRAINAGE PLAN	
9	C009	BMP PLAN	
10	C010	BMP DETAILS	
11	C011	TRAFFIC CONTROL PLAN 1	
12	C012	DETAILED SITE PLAN 1	
13	C013	DETAILED SITE PLAN 2	
14	C014	MISCELLANEOUS DETAILS	
15	C015	SIGNAGE AND STRIPING DETAILS	
16	C016	TYPE B CATCH BASIN	
17	C017	CONCRETE SIPHON DETAIL	
18	E001	VEVAU STREET ELECTRICAL	
		DEMOLITION PLAN	
19	E002	VEVAU STREET ELECTRICAL PLAN	
20	L001	LANDSCAPE PLAN	

DWG.

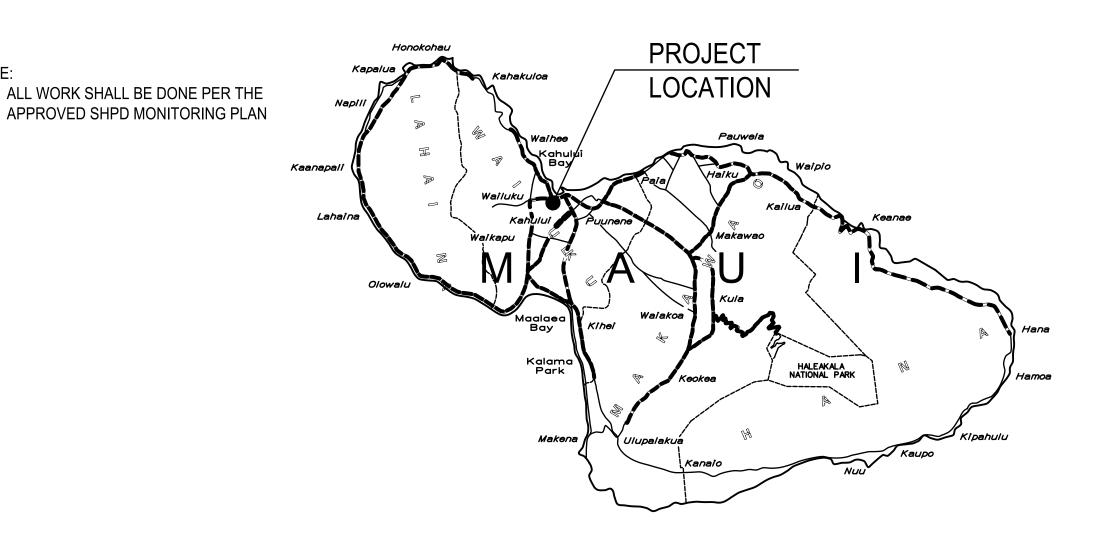
SHT.

VEVAU STREET IMPROVEMENTS FOR COUNTY OF MAUI DEDICATION KANE STREET TO SCHOOL STREET INDEX TO DRAWINGS KAHULUI, MAUI, HAWAII TAX MAP KEY: 3-7-005:003

ALL WORK SHALL BE DONE PER THE







ISLAND OF MAUI

PROJECT LOCATION



REVISIONS

R UNDER MY SUPERVISION T WILL BE UNDER MY STRUCTION AS DEFINED IN FFINITIONS, OF THE HAWAII L ENGINEERS, ARCHITECTS, (CTS")

OVEMENTS

DIRECTOR, DEPARTMENT OF PUBLIC WORKS COUNTY OF MAU (APPROVAL LIMITED TO WORK IN COUNTY RIGHT-OF-WAY ONLY)

(APPROVAL IS LIMITED TO THE WATER SYSTEM IMPROVEMENTS

WHICH WILL BE DEDICATED TO THE DEPARTMENT OF WATER SUPPLY)

APPROVED BY:

DIRECTOR, DEPARTMENT OF WATER SUPPLY

COUNTY OF MAU

DATE

DATE

GENERAL NOTES

- 1. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DATED 2005, THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" DATED SEPTEMBER 1986 AND "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" DATED SEPTEMBER 1984 OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI, AS AMENDED.
- 2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED. THE CONTRACTOR SHALL CONDUCT ALL TESTS AS REQUIRED BY THE ENGINEER AND BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONDUCTING THESE TESTS.
- 3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT, COUNTY OF MAUI, ENGINEERING DIVISION SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND DRAINAGE SYSTEMS, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 5. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCY OR CONFLICTS FOUND IN THE FIELD PRIOR TO OR DURING THE COURSE OF CONSTRUCTION AND SHALL NOT PROCEED WITH CONSTRUCTION UNTIL THE ENGINEER RESOLVES THE SAID DISCREPANCY OR CONFLICT.
- 6. FOR DETAILS NOT DELINEATED BY THESE PLANS, THE CONTRACTOR SHALL REFER TO THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" MAUI, HAWAII AND KAUAI COUNTIES AND CITY AND COUNTY OF HONOLULU OR THE "WATER SYSTEM STANDARDS", DATED 2002, WHICHEVER IS APPLICABLE.
- 7. UNLESS OTHERWISE NOTED, ALL EXISTING PAVEMENT, UTILITY LINES AND OTHER IMPROVEMENTS WITHIN THE COUNTY OR STATE RIGHT-OF-WAY THAT ARE DAMAGED OR UNDERMINED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO MATCH OR BETTER THAN EXISTING CONDITIONS.
- 8. ALL VISIBLE UTILITY STRUCTURES HAVE BEEN LOCATED IN THE FIELD. HOWEVER, CONNECTIONS TO UNDERGROUND UTILITY LINES AS SHOWN ARE UNVERIFIED AND COMPILED FROM EXISTING DATA. UNDERGROUND UTILITIES SHOWN HEREIN ARE FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES. NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ANY DAMAGED UTILITIES.
- 9. PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TONE OR PROBE THE PROJECT SITE TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND PIPELINES WHETHER SHOWN OR NOT. IF UTILITIES OR PIPELINES ARE FOUND DURING PROBING AND ARE NOT SHOWN ON THE PLANS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 10. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEATH, SAFETY, AND ENVIRONMENTAL QUALITY.
- 11. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS, DEPTHS AND ASSURE CONNECTIONS CAN BE MADE PRIOR TO EXCAVATION FOR THE NEW LINES, AT NO ADDITIONAL COST TO THE COUNTY.
- 12. IN THE EVENT THAT SUBSURFACE CULTURAL REMAINS SUCH AS ARTIFACTS, BURIALS, OR DEPOSITS OF SHELLS OR CHARCOAL ARE ENCOUNTERED DURING EXCAVATION WORK, THE CONTRACTOR SHALL STOP WORK IN THE AREA OF THE FIND AND CONTACT THE DEPARTMENT OF LAND AND NATURAL RESOURCES, HISTORIC PRESERVATION DIVISION (808-692-8015) IMMEDIATELY.
- 13. TOPOGRAPHIC SURVEY PERFORMED BY CONTROL POINT SURVEYING, INC., DATED MARCH 1, 2019.
- 14. THE CONTRACTOR MUST SUBMIT AN ENGINEERED GRADING REPORT (PER MAUI COUNTY CODE 20.08.250) AT THE COMPLETION OF THE PROJECT.

GRADING NOTES

- 1. ALL GRADING WORK SHALL CONFORM TO THE MAUI COUNTY CODE. SHOULD A GRADING PERMIT BE REQUIRED. NO WORK SHALL COMMENCE UNTIL THE DEPARTMENT OF PUBLIC WORKS APPROVES A GRADING PERMIT.
- 2. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEASURES TO PREVENT FLOODING AND EROSION PROBLEMS TO ADJACENT PROPERTIES
- 3. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DPW SHALL BE PAYABLE BY THE CONTRACTOR.
- 4. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST.
- 5. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS.
- 6. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, COMMUNITY NOISE CONTROL.
- 7. SHOULD ANY UNANTICIPATED ARCHAEOLOGICAL SITE(S) BE UNCOVERED BY THE GRADING ACTIVITY, ALL WORK SHALL CEASE IN THE IMMEDIATE AREA AND THE CONTRACTOR SHALL NOTIFY THE STATE HISTORIC PRESERVATION DIVISION AT 692-8015. NO WORK SHALL RESUME UNTIL THE CONTRACTOR OBTAINS CLEARANCE FROM THE HISTORIC PRESERVATION DIVISION.
- 8. THE CONTRACTOR SHALL SOD OR PLANT ALL SLOPES AND EXPOSED AREAS IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.
- 9. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- 10. THE CONTRACTOR SHALL INFORM THE DPW OF THE LOCATION OF THE DISPOSAL AND/OR BORROW SITE(S) REQUIRED FOR THIS PROJECT WHEN AN APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL AND/OR BORROW SITES MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 11.NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS, AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM DPW. GRADING WORK ON NORMAL WORKING DAYS SHALL BE BETWEEN THE HOURS OF 8:00 AM TO 4:30 PM.
- 12. FILLS SHALL BE COMPACTED TO 90 PERCENT (90%) OF MAXIMUM DENSITY PER ASTM D-1557 TEST, UNLESS SPECIFIED OTHERWISE.
- 13. THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACE.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING, STORAGE AND/OR DISPOSAL OF ALL WASTE GENERATED BY THIS CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A PLAN TO MAUI COUNTY DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT FOR COMPOSTING AND DISPOSAL OF CLEARED AND GRUBBED MATERIAL AND RECYCLING AND DISPOSAL OF CONSTRUCTION WASTE.
- 15. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- 16.NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES, SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
- 18. THE COUNTY SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 19. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- 20. WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
- 21. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- 22. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
- 23.ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
- 24.NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.

NOTES FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY

- CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM WORK ON COUNTY HIGHWAYS FROM THE DEVELOPMENT SERVICES ADMINISTRATION TWO WEEKS PRIOR TO THE COMMENCEMENT OF WORK.
- 2 STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION PLANS.

ALL CONSTRUCTION SHALL STRICTLY CONFORM TO THE LATEST VERSION OF THE HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE PUBLIC WORKS CONSTRUCTION. AND THE SEPTEMBER 1984"STANDARD DETAILS" FOR PUBLIC WORKS CONSTRUCTION OF THE DEPARTMENT OF PUBLIC WORKS, AS AMENDED.

4. IF EXISTING UTILITIES. WHETHER OF NOT SHOWN ON PLANS. ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL AT HIS OWN EXPENSE BE REQUIRED TO REPAIR SUCH UTILITIES.

- 5. CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY AND CONVENIENCE OF THE PUBLIC, ACCORDING TO THE LATEST VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE FOR STREETS AND HIGHWAYS", AND TO THE RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORKSITES AND/OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS ADOPTED BY THE HIGHWAY SAFETY COORDINATOR AND THE U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".
- 6. THE DIRECTOR PUBLIC WORKS AND/OR THE DIRECTOR OF THE DEPARTMENT OF WATER SUPPLY HAS THE RIGHT TO STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLAN OR DETRIMENTAL TO THE PUBLIC'S INTEREST
- 7. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DEVELOPMENT SERVICES ADMINISTRATION FIVE (5) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND COUNTY GRADING ORDINANCE.
- 9 THE CONTRACTOR SHALL 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 ORDERED BY THE DIRECTOR OF PUBLIC WORKS SHALL BE PAID BY THE CONTRACTOR.
- 10. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE WORK SITE. THE CONTRACTOR SHALL INFORM THE DIRECTOR OF PUBLIC WORKS OF THE LOCATION OF THE DISPOSAL SITES. THE DISPOSAL SITE MUST FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 11. THE CONTRACTOR SHALL SUBMIT A TIFF AND FIVE (5) COPIES OF THE "AS-BUILT" DRAWINGS PRIOR TO THE FINAL APPROVAL OF THE IMPROVEMENTS.
- 12. SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS, OR MOUNDS, OR 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 AND/OR LANDOWNER SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (692-8015), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.
- 13. THE COUNTY OF MAULIS NOT RESPONSIBLE FOR ANY PARK, ROADWAY, EASEMENT (INCLUDING BUT NOT LIMITED TO DRAINAGE, SEWER, ACCESS, RECLAIMED WATER, OR AVIGATION EASEMENT), OR ANY OTHER INTEREST IN REAL PROPERTY SHOWN ON THIS MAP OR SHOWN ON THESE PLANS, UNLESS THE MAUL COUNTY COUNCIL HAS ACCEPTED ITS DEDICATION BY A RESOLUTION APPROVED BY A MAJORITY OF COUNCIL MEMBERS AT A REGULAR OR SPECIAL MEETING OF THE MAUI COUNTY COUNCIL OR THE COUNTY OF MAUI HAS SIGNED ITS ACCEPTENCE VIA A CONVEYANCE DOCUMENT RECORDED IN THE BUREAU OF CONVEYANCES OF THE STATE OF HAWAII IN COMPLIANCE WITH MAUI COUNTY CODE SECTION 3.44.015.
- 17. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL 14. STEEL PLATE WARNING SIGNS ARE REQUIRED FOR ALL STEEL PLATES IN THE RIGHT-OF-WAY.
 - 15. WHEELCHAIR RAMP INSPECTION/CERTIFICATION FORMS SHALL BE REQUIRED FOR ALL NEWLY CONSTRUCTED RAMPS.

16. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE OF THERMOPLASTIC MATERIAL.

17. COMPACTION REQUIREMENTS

a. TESTING OF MATERIALS SHALL BE CONDUCTED BY AN APPROVED INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH ASTM STANDARD METHODS OR AS SPECIFIED BY THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION, AS FOLLOWS:

i. EMBANKMENT/SELECT BORROW AND SUBGRADE MATERIALS: ONE (1) COMPACTION TEST PER 600 SQUARE YARDS PER LIFT; ii. AGGREGATE SUBBASE COURSE: ONE (1) COMPACTION TEST PER 400 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER LIFT PER PROJECT; iii. AGGREGATE BASE COURSE: ONE (1) COMPACTION TEST PER 300 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER LIFT PER PROJECT; iv. ASPHALT CONCRETE PAVEMENT OR ASPHALT TREATED BASE COURSE; THREE (3) A.C. CORES FOR THICKNESS AND DENSITY TEST PER PROJECT: v. TRENCH BACKFILL MATERIAL: ONE (1) TEST FOR EACH 300 LINEAL FEET OF TRENCH PER LIFT OF MATERIAL

- b. CONTRACTOR SHALL SUBMIT ALL TESTING REPORTS INCLUDING RESULTS TO THE COUNTY'S INSPECTION AGENCY FOR REVIEW AND APPROVAL PRIOR TO COUNTY'S ACCEPTANCE OF WORK.
- c. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE COUNTY OF ANY TESTING FAILURES AND CORRECT EACH FAILURE PRIOR TO PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION.

ABBREVIATIONS:

AC ADA & APPROX ARCH	ASPHALTIC CONCRETE AMERICANS WITH DISABILITIES ACT AND APPROXIMATE, APPROXIMATELY ARCHITECT AT	M MAX MECH MH MISC MIN
@ B, BOT BB BLDG BW BC	BOTTOM BOTTOM OF BANK BUILDING BOTTOM OF WALL BOTTOM OF CURB	N NTS NO OC OD OFF O/S
CO CONN ⊈ CONC CONT COTG	CLEAN OUT CONNECT, CONNECTION CENTERLINE CONCRETE CONTINUE, CONTINUOUS CLEAN OUT TO GRADE	PCC PAV'T PI P.I.V PL
DET/DTL DIA DI DL DMH	DETAIL DIAMETER DRAIN INLET DRAIN LINE DRAIN MANHOLE	PVC PP POC PORT
DPW DS DSP DWG	DEPARTMENT OF PUBLIC WORKS DOWNSPOUT DRY STAND PIPE DRAWING	R REQ'D REINF REV ROW
E EA ELEC EP EA ELEV, EL ELEC EQ EW	EAST EACH ELECTRIC EDGE OF PAVEMENT EACH ELEVATION ELECTRICAL EQUAL EACH WAY	S SHT SL SMH SPEC ST STA STD
EXIST, EX E/DL E/ELEC E/GL E/SL E/WL	EXISTING EXISTING DRAIN LINE EXISTING ELECTRICAL LINE EXISTING GAS LINE EXISTING SEWER LINE EXISTING WATER LINE	T TB TC THK TW TP
FH FFE FG	FIRE HYDRANT FINISH FLOOR ELEVATION FINISH GRADE	TYP VB VCP
GALV GV	GALVANIZED GATE VALVE	VERT
HORIZ	HORIZONTAL	W W/ WL
ID INV ISA	INSIDE DIAMETER INVERT INTERNATIONAL SYMBOL OF ACCESSIBILITY	WM WV W
LAT		

ΙF

LINEAR FOOT

METER MAXIMUM MECHANICAL MANHOLE MISCELLANEOUS MINIMUM

NORTH NOT TO SCALE NUMBER **ON CENTER OUTSIDE DIAMETER** OFFSITE OFFSET

PORTLAND CEMENT CONCRETE PAVEMENT POINT OF INTERSECTION POST INDICATOR VALVE PROPERTY LINE, PLACE POLYVINYL CHLORIDE POWER POLE POINT ON CURVE PORTABLE BUILDING

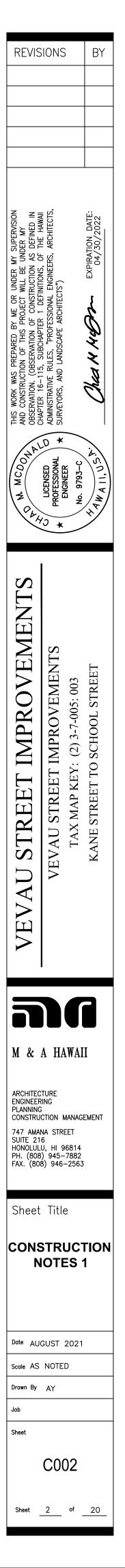
RADIUS REQUIRED REINFORCEMENT **REVISION/REVISED RIGHT OF WAY**

SOUTH, SLOPE, SEWER SHEET SEWER LINE SEWER MANHOLE SPECIFICATION STREET **STATION STANDARD**

TOP TOP OF BANK **TOP OF CURB** THICK TOP OF WALL TOP OF PAVEMENT TYPICAL

VALVE BOX VITRIFIED CLAY PIPE VERTICAL

WATER WITH WATER LINE WATER METER WATER VALVE WEST



TRAFFIC NOTES

- 1. A PERMIT SHALL BE OBTAINED FROM THE COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS-DEVELOPMENT SERVICES ADMINISTRATION (DSA) BEFORE WORK ON ANY PORTION OF A PUBLIC STREET OR HIGHWAY MAY BEGIN.
- 2. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES. THE CONTRACTOR SHALL ALSO TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION. SAFETY AND CONVENIENCE OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM TO THE "HAWAII ADMINISTRATIVE RULES 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'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".
- 3. WORK ON ANY STREET AREA MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:30 AM TO 3:30 PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE DSA.
- 4. DURING WORKING HOURS, THE CONTRACTOR SHALL PROVIDE FOR THROUGH TRAFFIC. DURING NON-WORKING HOURS. ALL TRENCHES SHALL BE COVERED WITH A SAFE NONSKID BRIDGING MATERIAL AND ALL LANES SHALL BE OPEN TO TRAFFIC.
- 5. FOR LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS. AS NECESSARY, TO CONTROL THE FLOW OF TRAFFIC AND TO ENSURE PUBLIC SAFETY.
- 6. PEDESTRIAN WALKWAYS SHALL BE MAINTAINED IN FUNCTIONAL CONDITION OR OTHER FACILITIES SHALL BE PROVIDED. PASSAGE BETWEEN WALKWAYS AND INTERSECTIONS SHALL LIKEWISE BE PROVIDED.
- 7. ALL SIGNS AND PAVEMENT MARKINGS DAMAGED BY THE CONSTRUCTION WORK SHALL BE **RESTORED TO ORIGINAL CONDITION OR BETTER.**
- 8. UPON COMPLETION OF THE CONSTRUCTION WORK, THE CONTRACTOR SHALL RESTRIPE ALL PAVEMENT MARKINGS WITHIN THE CONSTRUCTION WORK AREA AND ADJACENT ROADWAY PAVEMENTS UP TO 100 FEET BEYOND THE CONSTRUCTION AREA. ALL SIGNS AND MARKINGS WITHIN THE CONSTRUCTION AREA AND ADJACENT AREAS THAT HAVE BEEN DAMAGED, REMOVED, OR ADVERSELY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING STREET LIGHTING AND TRAFFIC SIGNAL FACILITIES AND DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR.
- 10.NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN STREET RIGHT-OF-WAY, EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS .
- 11. THE CONTRACTOR SHALL INFORM THE DSA AT LEAST SIX (6) WORKING DAYS PRIOR TO ANY WORK ON PAVEMENT MARKING OPERATIONS AND/OR SIGN INSTALLATIONS TO SCHEDULE A REVIEW AND APPROVAL OF THE STRIPING AND/OR SIGNING PLANS.
- 12. ALL PAVEMENT STRIPING ON COUNTY ROADWAYS SHALL BE THERMOPLASTIC.
- 13. ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS AMENDED, AND APPLICABLE SECTIONS OF PART V OF THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER, 1984, AND THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2005 EDITION, UNLESS OTHERWISE SPECIFIED ON THE PLANS, SPECIFICATIONS, OR THE STANDARD TRAFFIC NOTES.
- 14. THE APPROVED STRIPING PLAN SHALL BE LAID OUT USING TEMPORARY STRIPING TAPE OR OTHER APPROVED DEVICE. FIELD ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE ENGINEER BEFORE FINAL MARKINGS ARE APPLIED.
- 15. ALL PAVEMENT MARKINGS THAT BECOME INAPPLICABLE SHALL BE REMOVED BY THE CONTRACTOR AT HIS OWN EXPENSE. REMOVAL SHALL BE BY "SANDBLASTING" OR BY OTHER METHODS APPROVED BY THE ENGINEER BEFORE THE NEW PAVEMENT MARKINGS ARE APPLIED.
- 16. ALL RAISED PAVEMENT MARKERS SHALL MEET SPECIFICATION REQUIREMENTS FOR THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION.
- 17. ALL TRAFFIC SIGNS AND POSTS SHALL MEET THE REQUIREMENTS OF THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION AND COUNTY OF MAUL. SIGNS SHALL BE ON ALUMINUM SHEETING OF 0.080-INCH THICK MINIMUM. SIGN POSTS SHALL BE 2 INCH SQUARE TELESPAR TUBING NO. 20-F-12 OR EQUIVALENT WITH 2 1/4 INCH SQUARE TELESPAR ANCHOR POST BASE.
- 18. ALL TRAFFIC SIGNS SHALL BE RETROREFLECTIVE WITH DIAMOND-GRADE HIGH INTENSITY **REFLECTIVE SHEETING**.
- 19. THE 2 1/4 INCH SQUARE ANCHOR POST FOR SIGNS SHALL BE DRIVEN INTO THE GROUND, A/C PAVEMENT, OR CONCRETE SIDEWALK IN ACCORDANCE WITH THE PLANS. ALL DAMAGES TO THE SURROUNDING AREA SHALL BE REPAIRED TO ITS ORIGINAL CONDITION OR BETTER. BEFORE DRIVING INTO CONCRETE, A NEAT HOLE OF APPROXIMATELY 3 INCH DIAMETER SHALL BE DRILLED THOUGH THE CONCRETE PRIOR TO THE INSTALLATION OF THE ANCHOR POST. IF DRIVING INTO THE CONCRETE OR A/C PAVEMENT IS NOT POSSIBLE WITHOUT DAMAGE TO THE SURROUNDING CONCRETE OR A/C PAVEMENT, A 12"X12" SQUARE SHALL BE SAW-CUT AND REMOVED PRIOR TO THE INSTALLATION OF THE ANCHOR POST AND THEN PATCHED WITH HOT MIX TO MATCH THE EXISTING A/C PAVEMENT, AND CONCRETE TO MATCH EXISTING CONCRETE PAVEMENT.

BMP NOTES:

- SHALL BE INSTALLED.
- 3

PERMANENT EROSION CONTROL MEASURES:

GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

2. ONSITE AND OFFSITE PRODUCT SPECIFIC PLAN

- FOLLOWED.

- SITE.

TEMPORARY EROSION CONTROL MEASURES

1. PRIOR TO CLEARING LAND FOR GRADING, TEMPORARY EROSION CONTROL MEASURES. SUCH AS STABILIZED ACCESS AND SILT FENCES

2. TEMPORARY STABILIZED ENTRY/EXIT ACCESS SHALL BE ESTABLISHED PRIOR TO CLEARING OPERATIONS AND SHALL BE CONSTRUCTED ACCORDINGLY DOT'S HWY CRITERIA. ACCESS SHALL BE 30' WIDE, 50' LONG AND 12" DEEP. MINIMUM.

OPENING AND CLEARING OF LAND FOR GRADING SHALL BE PERFORMED INCREMENTALLY TO MINIMIZE EROSION POTENTIAL.

4. AREAS NOT WITHIN THE LIMITS OF CLEARING AND GRUBBING SHALL REMAIN VEGETATED DURING GRADING OPERATIONS.

5. SILT WHICH HAS ACCUMULATED ON SILT FENCE SHALL BE REMOVED AND DISPOSED OF ON A BI-WEEKLY BASIS.

6. WHEN CLEARED OR GRUBBED AREAS ARE NOT TO BE GRADED OR DISTURBED FOR 30 DAYS OR MORE, SEED, PLANT OR HYDROSEED TEMPORARY VEGETATION. UNLESS REMAINING NATURAL VEGETATION PROVIDES ADEQUATE PROTECTION.

7. THE CONTRACTOR'S EQUIPMENT STORAGE AREAS SHALL BE PROTECTED THROUGH THE USE OF EARTH BERMS AND/OR ABSORPTION MATERIALS TO PREVENT POLLUTANTS FROM DISCHARGING INTO STATE WATERS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN STORAGE AREAS.

1. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED.

2. 2:1 SLOPES SHALL BE TREATED WITH GEOFABRIC OR TREATED WITH SOIL CONDITIONER TO AID IN THE ESTABLISHMENT OF TURF/ PLANTING.

1. MATERIALS POLLUTION PREVENTION PLAN

A. 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: CONCRETE, DETERGENTS, PAINTS (ENAMEL AND LATEX), METAL STUDS, AND TAR.

B. 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 PRODUCT AS IS

REQUIRED TO DO THE JOB. 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. D. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH

THE ORIGINAL MANUFACTURER'S LABEL. E. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS

RECOMMENDED BY THE MANUFACTURER.

F. WHENEVER POSSIBLE, A PRODUCT SHALL BE USED UP

COMPLETELY BEFORE DISPOSING OF THE CONTAINER. G. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.

H. THE CONTRACTOR SHALL CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

A. THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE

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

III. PAINTS: ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STATE DRAINAGE SYSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

IV. CONCRETE TRUCKS: CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DRUM WASH WATER ONLY AT A DESIGNATED SITE. WATER SHALL NOT BE DISCHARGED IN THE STATE DRAINAGE SYSTEM OR WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL CONTACT DRINKING WATER BRANCH. DEPARTMENT OF HEALTH AT 586-4258 TO RECEIVE PERMISSION TO DESIGNATE A DISPOSAL SITE. THE CONTRACTOR SHALL CLEAN DISPOSAL SITE AS REQUIRED OR AS REQUESTED BY THE OWNER'S REPRESENTATIVE.

B. VEHICLE TRACKING.

I. A STABULIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. II. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE SHALL BE CLEANED DAILY OR AS REQUIRED TO REMOVE ANT EXCESS MUD, COLD PLANED MATERIALS. DIRT. OR ROCK TRAKCED FROM THE

III. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERTED WITH A TARPAULIN.

TEMPORARY EROSION CONTROL NOTES:

- 1. ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL COMPLY WITH TITLE MC-15, CHAPTER 4, "RULES FOR THE DESIGN OF STORM DRAINAGE FACILITIES IN THE COUNTY OF MAUI" OF THE DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT. COUNTY OF MAUL
- 2. EROSION CONTROL BMPS SHALL CONFORM TO THE HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISIONS CONSTRUCTION BEST MANAGEMENT PRACTICES FIELD MANUAL DATED JANUARY 2008.
- 3. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF LAND TO BE EXPOSED AT ANY TIME.
- 4. ALL GRADED AREAS SHALL BE GRASSED IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED. GRASS PLANTING SHALL BE IN ACCORDANCE WITH SECTION 51 OF THE "STANDARDS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". DATED SEPTEMBER 1986.
- 5. GRADED AREAS THAT ARE NOT AT FINAL GRADE AND ARE EXPECTED TO BE EXPOSED FOR MORE THAN 21 DAYS SHALL BE STABILIZED (GRASSED OR GRAVELED) BY NO LATER THAN 14 DAYS AFTER DISTURBANCE IN ORDER TO PREVENT EROSION AND SILT RUNOFF.
- 6. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN PLACE AND ESTABLISHED.
- 7. PROVIDE STABILIZED ACCESS AT CONSTRUCTION ENTRY AND EXIT LOCATION SHOWN . #2 CRUSHED ROCK SHALL BE USED.

SEQUENCE FOR SEDIMENT CONTROL:

- 1. INSTALL DUST FENCE, FILTER SOCK, DRAIN INLET PROTECTION, AND TEMPORARY STABILIZED ENTRY/EXIT ACCESS
- 2. COMMENCE GRADING OPERATIONS.
- 3. GROUND COVER. SUCH AS GRASSING. MULCHING OR NETTING TO BE INSTALLED IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED.
- 4. AS CONSTRUCTION PROGRESSES, THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AS REQUIRED. AT NO TIME SHALL TEMPORARY EROSION CONTROLS BE REMOVED WITHOUT RELOCATED TEMPORARY EROSION CONTROLS OR PERMANENT EROSION CONTROLS BEING IN PLACE.
- 5. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND AREA RESTORED AT THE COMPLETION OF THE PROJECT.
- 6. AT THE END OF GRADING OPERATIONS, EXISTING CATCH BASINS, INLETS AND DRAINAGE DITCHES SURROUNDING THE PROJECT SITE SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND SHALL BE REMOVED. FLUSHING INTO THE DRAINAGE WAYS IS PROHIBITED.

REVISIONS BY
M. MCDON THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AID CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY AID CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY CAPTER 16-115, SUBCHAPTER 1 DEFINITIONS, OF THE HAWII ADMINISTRATIVE RULES, "PROFESSIONAL ENGINEERS, ARCHITECTS, BORINEER No. 9793-C AM A 11, U.S. AM A 11, U.S.
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PLAN NOTES FOR WATER SYSTEMS

- 1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER SUPPLY (DWS), IN WRITING, ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.
- 2. IF CONSTRUCTION OF WATER SYSTEM IMPROVEMENTS WILL AFFECT DWS CONSUMERS. CONTRACTOR SHALL NOTIFY CONSUMERS BY RADIO/NEWSPAPER TWO (2) DAYS BEFORE AND ON DAY OF CONNECTION. CONTRACTOR SHALL ALSO NOTIFY CONSUMERS HOUSE-TO-HOUSE ONE (1) DAY BEFORE CONNECTION WORK.
- 3. ALL MATERIALS USED AND METHODS OF CONSTRUCTION OF WATER SYSTEM FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF DWS WATER SYSTEM STANDARDS. CONTRACTOR SHALL OBTAIN THE LATEST **REVISIONS OF THE DWS STANDARDS BEFORE COMMENCING** CONSTRUCTION.
- 4. ALL WATER SYSTEM WORK SHALL BE PERFORMED BY CONTRACTORS POSSESSING VALID STATE OF HAWAII CONTRACTOR'S LICENSES. REGARDLESS OF THE VALUE OF THE WORK.
- 5. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, FEDERAL LAWS, RULES AND REGULATIONS REGARDING THE HANDLING. REMOVAL AND DISPOSAL OF ASBESTOS PIPE.
- 6. CONTRACTOR SHALL PROTECT EXISTING WATERLINE DURING COURSE OF CONSTRUCTION AND SUPPORT EXPOSED WATERLINE TO PREVENT ANY MOVEMENT.
- 7. THE EXACT DEPTH AND LOCATION OF EXISTING WATERLINES. SERVICE LATERALS AND OTHER UTILITIES ARE NOT KNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE SAME PRIOR TO TRENCHING FOR THE NEW WATERLINE. THE COST OF LOWERING, RELOCATING OR ADJUSTING EXISTING WATERLINES, SERVICE LATERALS AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON CONSTRUCTION PLANS AT THE CONTRACTOR'S EXPENSE.
- 8. PAVEMENT RESURFACING/RESTORATION:
 - A. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING DWS VALVES AND MANHOLES, WHEN AFFECTED BY THE WORK. PRIOR TO START OF CONSTRUCTION.
 - B. ALL WATER VALVE AND WATER MANHOLE CONCRETE COLLARS WITHIN THE PROJECT LIMITS SHALL BE DEMOLISHED AND RECONSTRUCTED PER DWS STANDARD DETAIL V12 AND V23. RESPECTIVELY. AT THE CONTRACTOR'S EXPENSE.
 - C. THE VALVE BOX RISER AND COVER OF ALL WATER VALVES WITHIN THE PROJECT LIMITS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - D. CONTRACTOR SHALL ADJUST DWS SLIDING VALVE BOX ASSEMBLY AND MANHOLE FRAME AND COVER TO FINISHED GRADE.
 - E. PRIOR TO PAVEMENT RESURFACING/RESTORATION WORK, THE CONTRACTOR SHALL SCHEDULE INSPECTION WITH DWS.
- 9. ANY SLIDING VALVE BOX ASSEMBLY, MANHOLE COVER, OR CONCRETE COLLAR, WHETHER DISCOVERED DAMAGED OR NOT SPECIFIED ON THE PLANS TO BE ADJUSTED OR REPLACED, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL ADJUST TO FINISHED GRADES, ALL UTILITIES (I.E., WATER, SEWER, DRAIN, ETC.) AFFECTED BY THE WORK WHETHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION PLANS AT THE CONTRACTOR'S EXPENSE.
- 11. CONTRACTOR SHALL RESTORE ALL ROAD IMPROVEMENTS DISTURBED OR DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE 2005 "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS AMENDED. TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS AT THE CONTRACTOR'S EXPENSE. ROAD IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, PAVEMENT, PAVEMENT MARKERS, SHOULDER DRESSING, STRIPING AND SPEED HUMPS
- 12. CONCRETE FOR REACTION BLOCKS AND ANCHOR BLOCKS SHALL BE DWS CLASS 2500.
- 13. THE MAXIMUM DISTANCE BETWEEN VALVE NUT AND TOP OF MANHOLE COVER SHALL BE THREE (3) FEET.
- 14. CONTRACTOR SHALL SUBMIT A MATERIALS LIST TO DWS FOR APPROVAL PRIOR TO CONSTRUCTION.
- **15. CONNECTION TO DWS SYSTEM:**
 - A. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY FITTINGS AND OTHER MATERIALS AND EQUIPMENT REQUIRED FOR THE HOOK-UP. CONTRACTOR SHALL VERIFY THE EXACT LOCATION, DEPTH, TYPE, AND CONDITION OF THE EXISTING LINE BEFORE ORDERING MATERIALS FOR THE HOOK-UP. CONTRACTOR SHALL, HOWEVER, CHECK WITH DWS BEFORE EXCAVATING FOR VERIFICATION PURPOSES.
 - B. WHENEVER FEASIBLE, MECHANICAL JOINT FITTINGS SHALL BE USED FOR BURIED APPLICATIONS, AND FLANGED JOINT FITTINGS SHALL BE USED FOR EXPOSED APPLICATIONS.
 - C. DWS PERSONNEL MAY BE REQUIRED TO BE PRESENT OR ASSIST WITH CONNECTIONS TO THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY DWS FOR SAID WORK.
 - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL, EQUIPMENT AND LABOR FOR TRENCH EXCAVATION. BACKFILLING, CLEANING AND CHLORINATION, PAVING, AND OTHER WORK NECESSARY TO COMPLETE THE HOOK-UP, AS DIRECTED BY AND TO THE SATISFACTION OF DWS.

PLAN NOTES FOR WATER SYSTEMS (CONT.)

- FOR DIAMETERS LESS THAN 4" SHALL BE 1'-6".
- DWS WATER SYSTEM STANDARDS.
- IMPROVEMENTS.
- FOLLOWING SYSTEMS:
 - SYSTEM. ANTI-SEIZE SHALL NOT BE USED.
 - T-BOLTS.

ALL HOT FORGED STAINLESS STEEL BOLTS ARE REQUIRED TO BE PASSIVATED PER ASTM A380. MANUFACTURE CERTIFICATES ARE REQUIRED FOR PROOF WITH EACH SHIPMENT

- EXPENSE.

- **BE FURNISHED BY DWS.**
- PERFORMED AT 225 POUNDS PER SQUARE INCH PRESSURE.
- WATER SYSTEM PRIOR TO ACCEPTANCE.
- PROVIDED TO THE DWS FOR ALL PROJECTS.

16. MINIMUM COVER OVER WATER MAIN, 6" DIAMETER OR LARGER. SHALL BE 3'-0". MINIMUM COVER FOR 4" DIAMETER SHALL BE 2'-6". MINIMUM COVER

17. CONTRACTOR SHALL ENSURE INSTALLATION OF WATERLINES, SERVICE LATERALS AND APPURTENANCES HAVE PROPER CLEARANCES FROM EXISTING TREES, WALLS, FENCES, ETC, IN ACCORDANCE WITH CURRENT

18. CONTRACTOR SHALL VERIFY AND MAINTAIN 18" MINIMUM CLEARANCE WITH WATERLINE OR SERVICE LATERAL CROSSING OVER EXISTING SEWERLINE OR SERVICE LATERAL. INSTALL REINFORCED CONCRETE JACKET AROUND SEWERLINE WHERE SEWER IS ABOVE WATER LINE OR LESS THAN 18" BELOW WATERLINE. THE LENGTH OF JACKET REQUIRED SHALL BE SPECIFIED IN TABLE 100-5 OF THE DWS STANDARDS. PROVIDE 6" MINIMUM CLEARANCE FROM OUTSIDE JACKET TO WATERLINE OR SERVICE LATERAL. STANDARD CONCRETE JACKET DETAILS FOR SEWERLINE AS SPECIFIED BY THE DEPARTMENT OF PUBLIC WORKS STANDARDS SHALL BE FOLLOWED.

19. CONTRACTOR SHALL HAVE LICENSED SURVEYOR STAKE OUT WATERLINE BASELINE STATIONING. RIGHT-OF-WAY LIMITS. PROPERTY LINES. AND EASEMENT LINES TO ENSURE PROPER LOCATION OF WATER SYSTEM

20.BOLTS FOR EXPOSED FLANGED DUCTILE IRON PIPE JOINTS SHALL BE EITHER SILICON BRONZE BOLTS AND NUTS OR 316 STAINLESS STEEL BOLTS WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE USED. T-BOLTS FOR DUCTILE IRON MECHANICAL JOINT (MJ) PIPE AND FITTING CONNECTIONS IN UNDERGROUND SITUATIONS SHALL BE ONE OF THE

A. 316 STAINLESS STEEL T-BOLTS WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING

B. COR-TEN T-BOLTS AND NUTS WITH HIGH GRADE ZINC SACRIFICIAL ANODES, EQUIVALENT TO "DURATRON" SACRIFICIAL "SAC-NUT" MODULES, INSTALLED ON THE NUTS FOR ALL STANDARD COR-TEN

C. COR-TEN T-BOLTS AND NUTS BOTH FACTORY COATED WITH TRIPAC 2000 BLUE COATING SYSTEM BY "TRIPAC FASTENERS".

21.CONTRACTOR SHALL FURNISH AND INSTALL DUCTILE IRON NIPPLES FOR COMPLETE INSTALLATION OF THE WATERLINE, WHETHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION PLANS, AT THE CONTRACTORS EXPENSE.

22.CONTRACTOR SHALL FURNISH TEMPORARY CLEANOUTS WHEN NECESSARY TO TEST, FLUSH, AND CHLORINATE THE WATERLINE AT THE CONTRACTOR'S

23.CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED WATERLINES THAT ARE EXPOSED OR WITHIN 12-INCHES BELOW THE GROUND SURFACE AT THE CONTRACTOR'S EXPENSE.

24. ALL BURIED METALS, INCLUDING COPPER PIPES, SHALL BE WRAPPED WITH POLY-WRAP. FOR ALL BURIED INSTALLATIONS OF DUCTILE IRON PIPE AND FITTINGS, POLY-WRAP IS REQUIRED EXCEPT WITHIN CONCRETE JACKETS.

25.LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.

26.CONTRACTOR SHALL PAINT AND NUMBER FIRE HYDRANT(S). NUMBERING TO

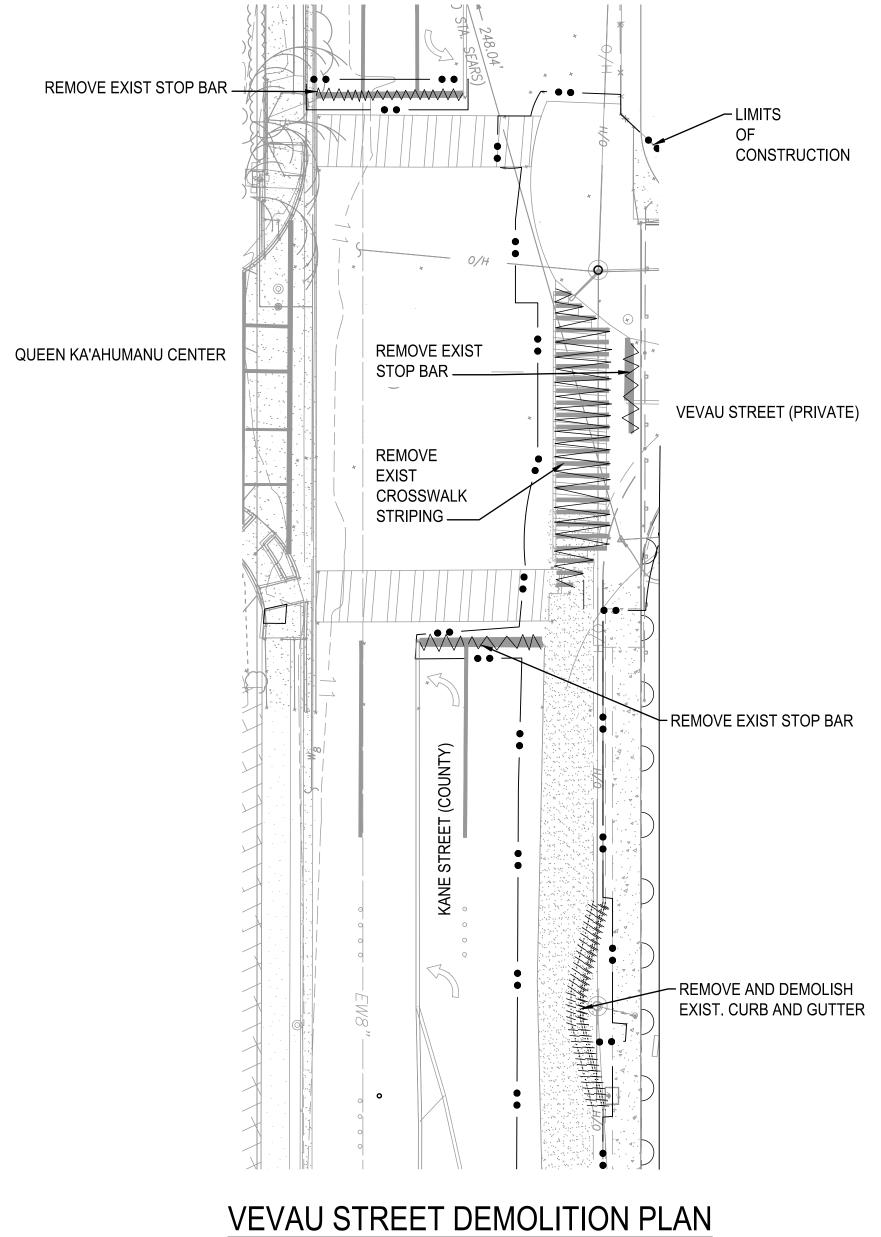
27.WATER MAINS AND APPURTENANCES SHALL BE SUBJECT TO HYDROSTATIC TESTING IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C600. UNDER THE "HYDROSTATIC TESTING" SECTION, TO A PRESSURE OF AT LEAST 1.5 TIMES THE WORKING PRESSURE. UNLESS OTHERWISE STATED IN THE CONSTRUCTION DOCUMENTS OR LIMITED BY THE PRESSURE RATING OF EQUIPMENT, THE PRESSURE TEST AND LEAKAGE TEST SHALL BE

28.DEVELOPER SHALL SUBMIT A COST LIST ALONG WITH AN AFFIDAVIT FOR THE

29.CONTRACTOR SHALL SUBMIT ONE (1) SET OF RECORD DRAWINGS VIA A CONSULTANT PRIOR TO ACCEPTANCE OF THE WATER SYSTEM. AN ELECTRONIC IMAGE FILE IN PDF FORMAT AT FULL SIZE (24"X36") SHALL BE PLAN NOTES FOR CHLORINATION OF WATER SYSTEM PIPELINES

- 1. WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. ALL PROCEDURES AND MATERIALS (LIQUID CHLORINE OR CALCIUM HYPOCHLORITE) USED FOR THE CHLORINATION OF THE PROJECT SHALL CONFORM TO AWWA REQUIREMENTS.
- 2. PRIOR TO CHLORINATION, THE PROJECT PIPELINES SHALL BE THOROUGHLY CLEANED, CLEANING OF LINES 8" AND LARGER SHALL BE BY PIGGING USING FOAM PIGS. SMALLER LINES CAN BE FLUSHED IN ACCORDANCE WITH AWWA REQUIREMENTS IF ADEQUATE WATER SUPPLY IS PROVIDED. OTHERWISE BY PIGGING. THE CONTRACTOR SHALL SUBMIT HIS PLAN FOR PIPELINE CLEANING, INCLUDING FITTING REQUIREMENTS FOR PIGGING, FOR APPROVAL PRIOR TO PROCEEDING.
- 3. THE INTERIOR SURFACES OF THE PROJECT SHALL BE EXPOSED TO THE CHLORINATING SOLUTION FOR A MINIMUM OF 24 HOURS AND THE CHLORINE RESIDUAL SHALL NOT BE LESS THAN 10 PPM AFTER SUCH TIME.
- 4. SHOULD CALCIUM HYPOCHLORITE BE USED, NO SOLID AND/OR UNDISSOLVED PORTION OF THE COMPOUND SHALL BE INTRODUCED INTO ANY SECTION OF THE PROJECT TO BE CHLORINATED.
- 5. AT THE END OF THE 24-HOUR DISINFECTION PERIOD. REPRESENTATIVE SAMPLES SHALL BE TAKEN AND ANALYZED TO ASSURE A CHLORINE RESIDUAL OF AT LEAST 10 PPM. MEASUREMENTS FOR CHLORINE RESIDUAL TESTS SHALL BE BY A TRAINED, QUALIFIED TESTER APPROVED BY THE DIRECTOR.
- 6. SHOULD THE RESULTS INDICATE ADEQUATE CHLORINATION. THE PROJECT SHALL BE THOROUGHLY FLUSHED AND FILLED WITH POTABLE WATER FROM THE EXISTING POTABLE WATER SYSTEM AND AGAIN TESTED FOR CHLORINE RESIDUAL. THE FLUSHING SHALL BE CONSIDERED ADEQUATE IF THE TEST RESULTS INDICATE THAT THE WATER IN THE PROJECT HAS A COMPARABLE CHLORINE RESIDUAL AS THE WATER IN THE EXISTING SYSTEM.
- 7. FOLLOWING THE ACCEPTABLE FLUSHING OF THE HIGH CONCENTRATION CHLORINE SOLUTION, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART FROM REPRESENTATIVE POINTS IN THE PROJECT AND SUBJECTED TO MICROBIOLOGICAL TESTS PERFORMED BY A CERTIFIED LABORATORY APPROVED BY THE DEPARTMENT OF HEALTH. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED AND TESTED FROM EVERY 1.200 FEET OF THE NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. POSITIVE RESULTS WILL NOT BE ACCEPTABLE AND THE ENTIRE CHLORINATION PROCESS WILL BE REPEATED.
- 8. ANALYSIS FOR RESIDUAL CHLORINE SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION.
- 9. MICROBIOLOGICAL TESTS SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION.
- 10. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL OF THE FOREGOING.

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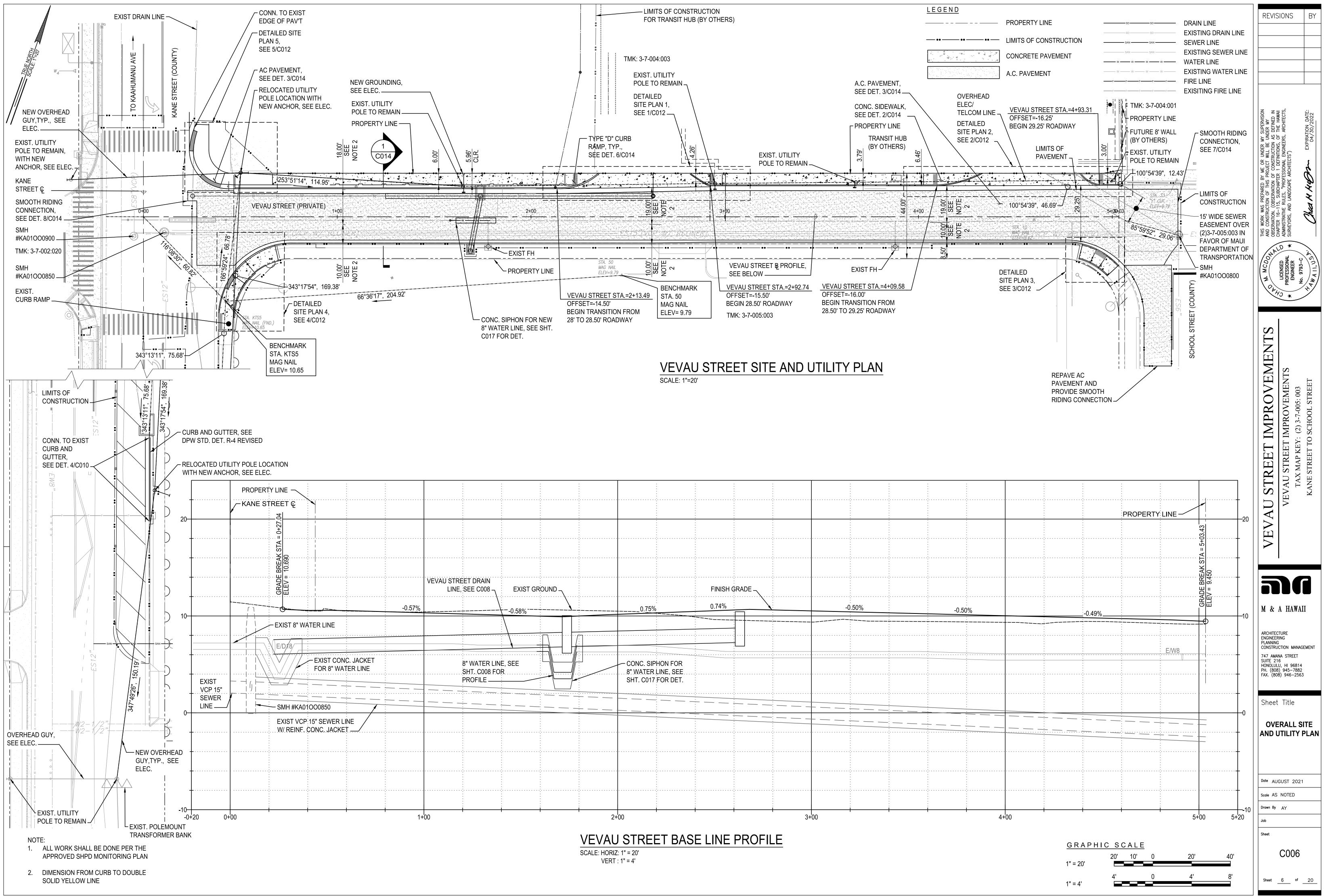


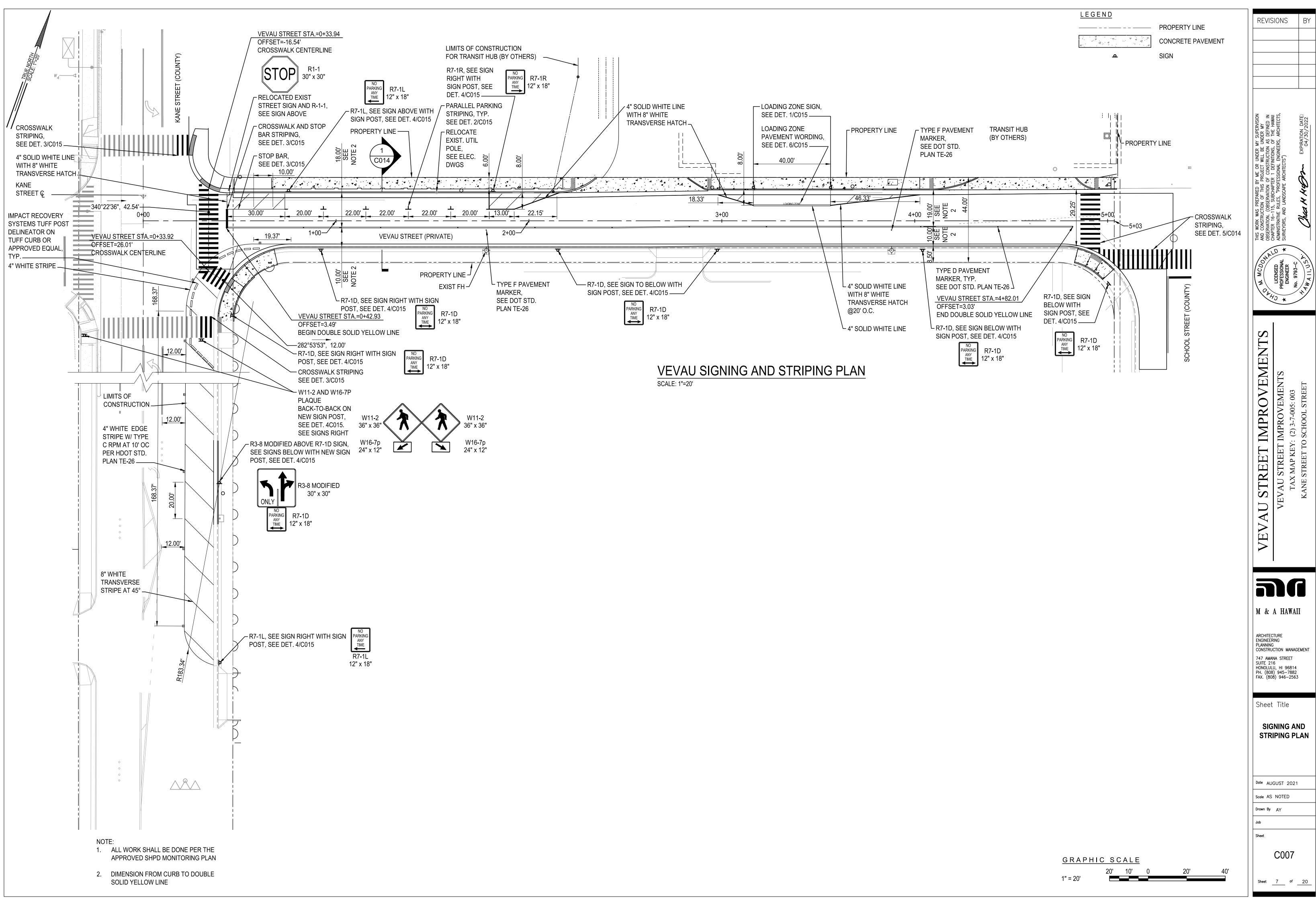
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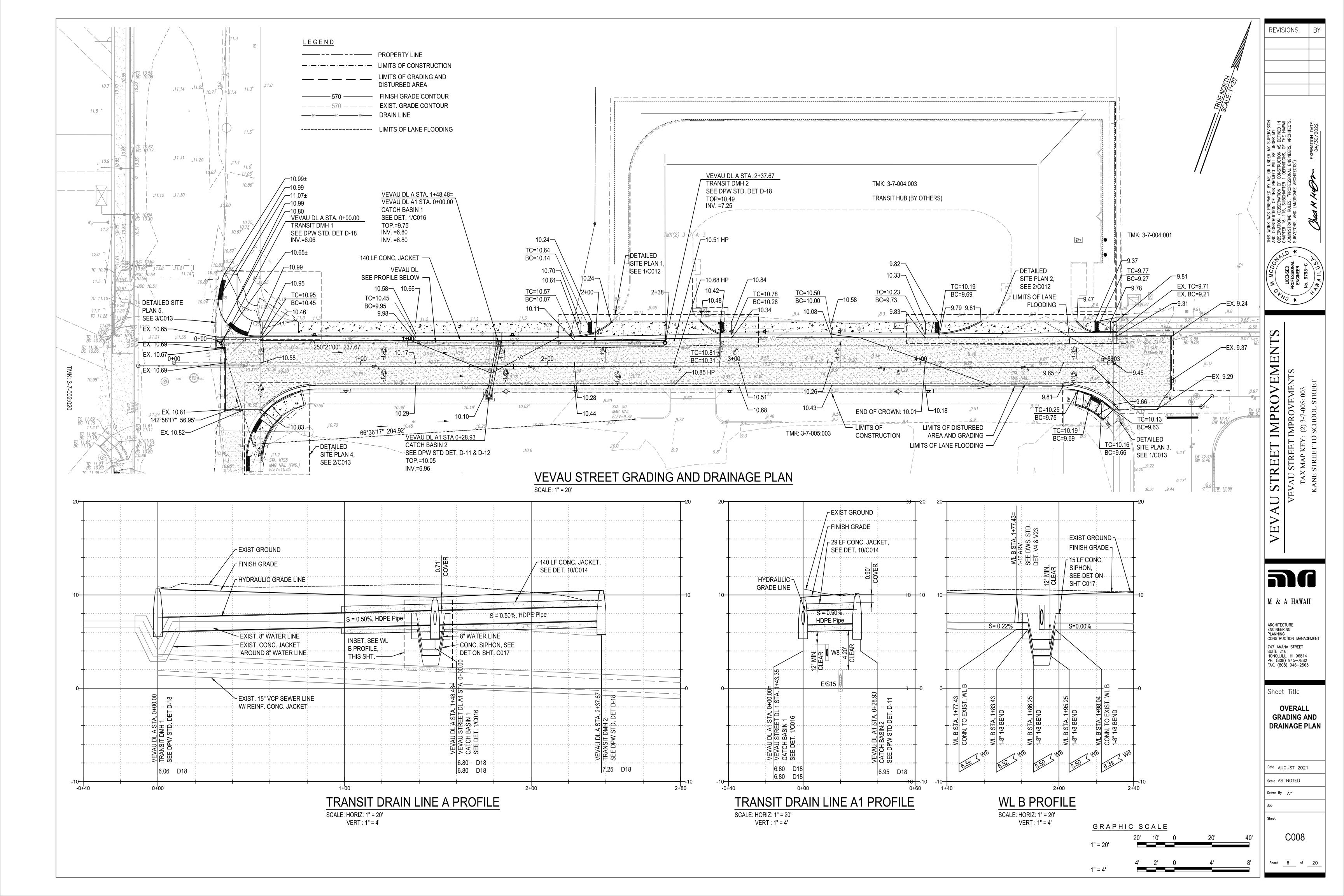
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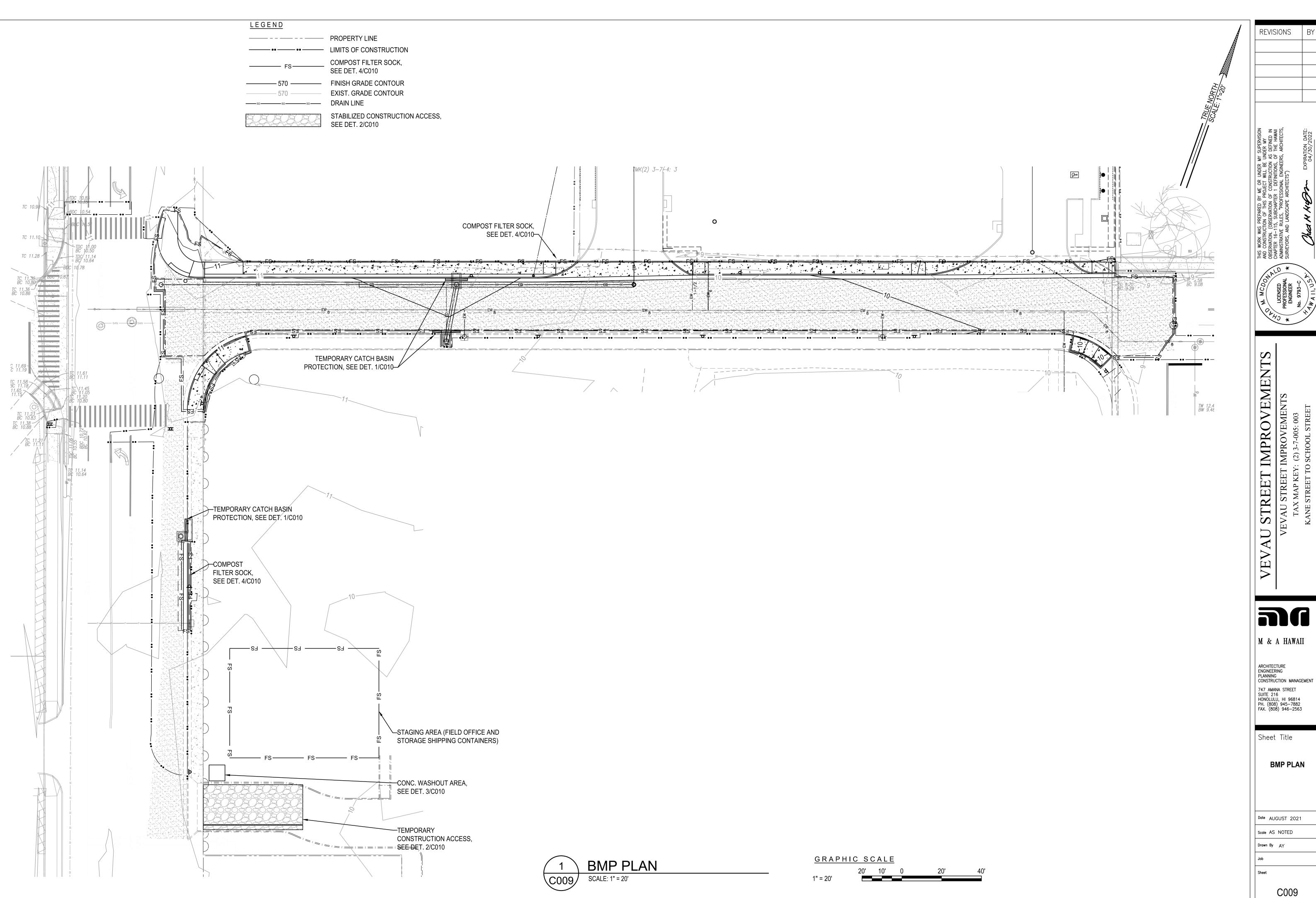
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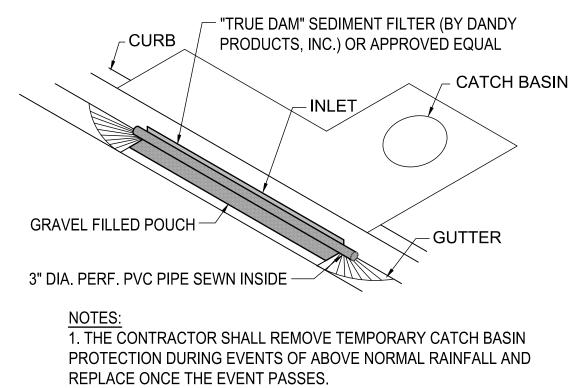




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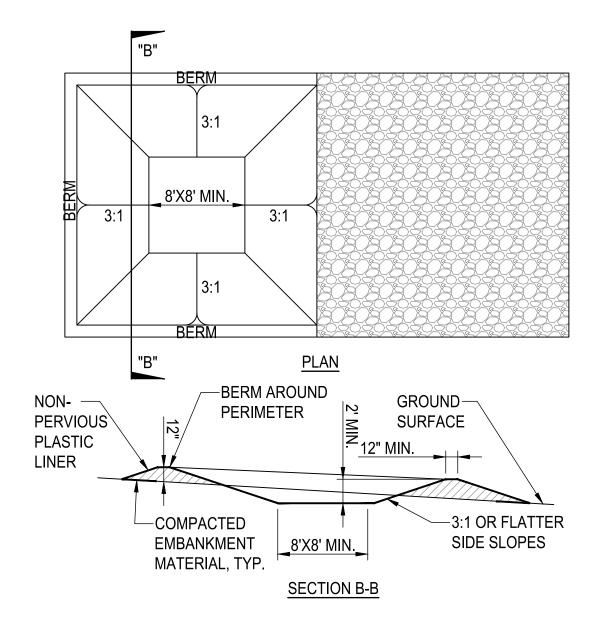


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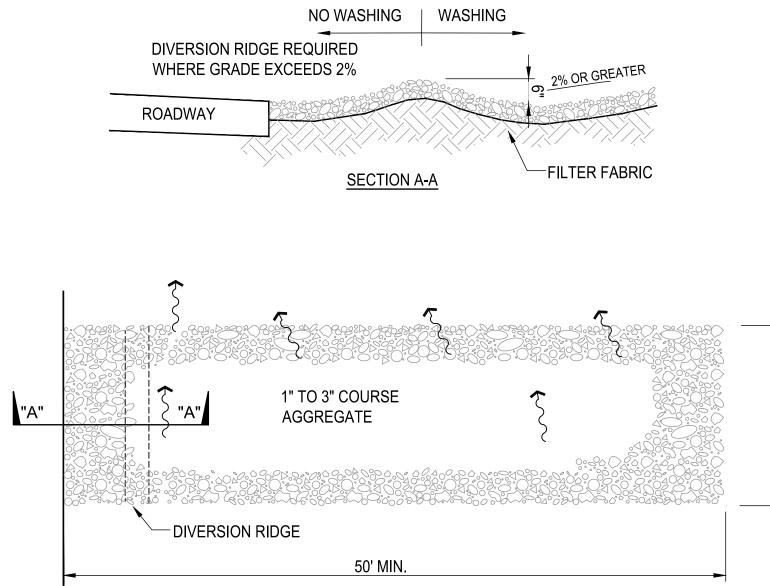




NOTES: 1. CONTRACTOR TO LOCATE CONC. WASHOUT AREA ON SITE.

- 2. THE CONC. WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONC. PLACEMENT ON SITE. 3. CRUSHED ROCK ACCESS IS REQUIRED AT THE ACCESS POINT.
- 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONC. WASHOUT AREA TO OPERATORS OF CONC. TRUCKS AND PUMP RIGS.
- 5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION. 6. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONC. ALTERNATIVELY THE USE OF A
- CONCRETE WASTE BIN WITH HAUL OUT SERVICE MAY BE USED. 7. AT THE END OF CONSTRUCTION, ALL CONC. SHALL BE REMOVED FROM THE SITE AND DISPOSED
- OF AT AN APPROVED WASTE SITE. 8. WHEN THE CONC. WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED
- AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY. 9. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

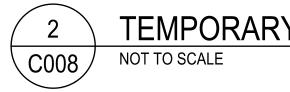


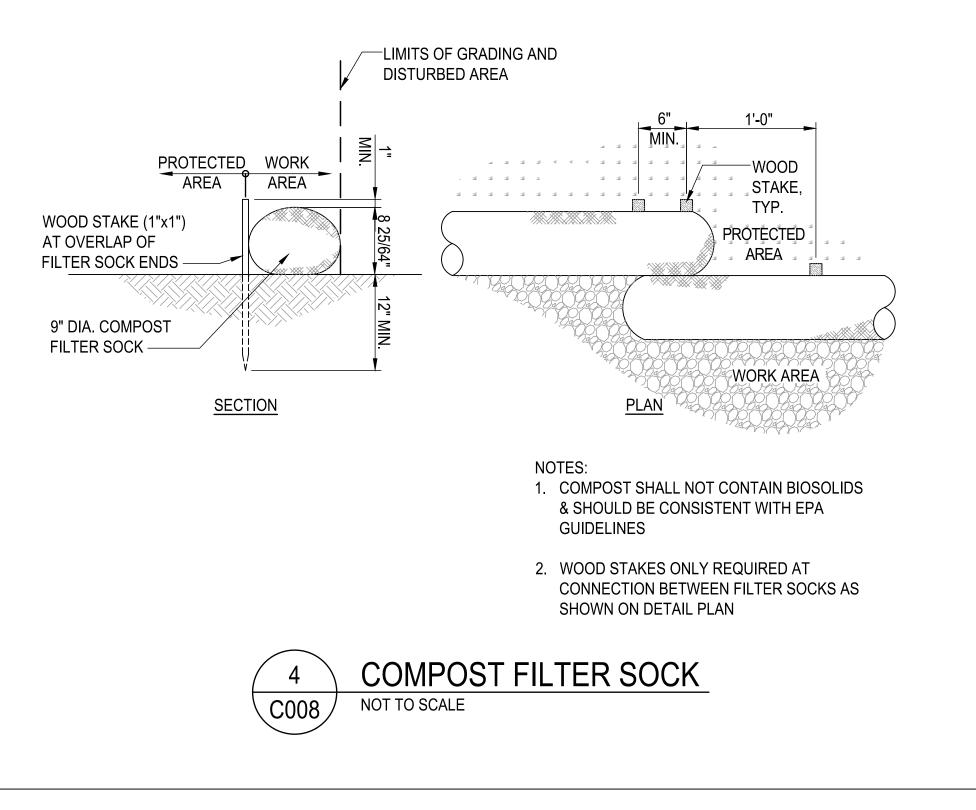


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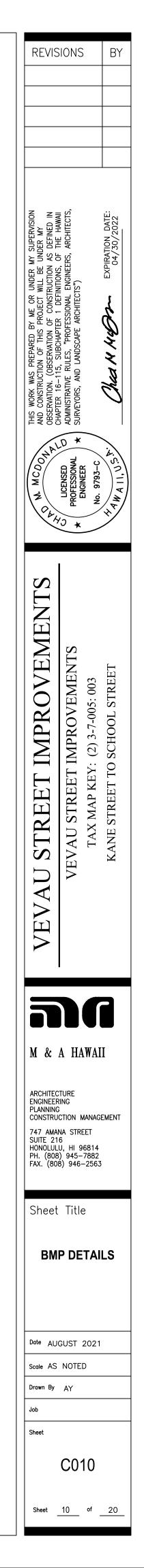
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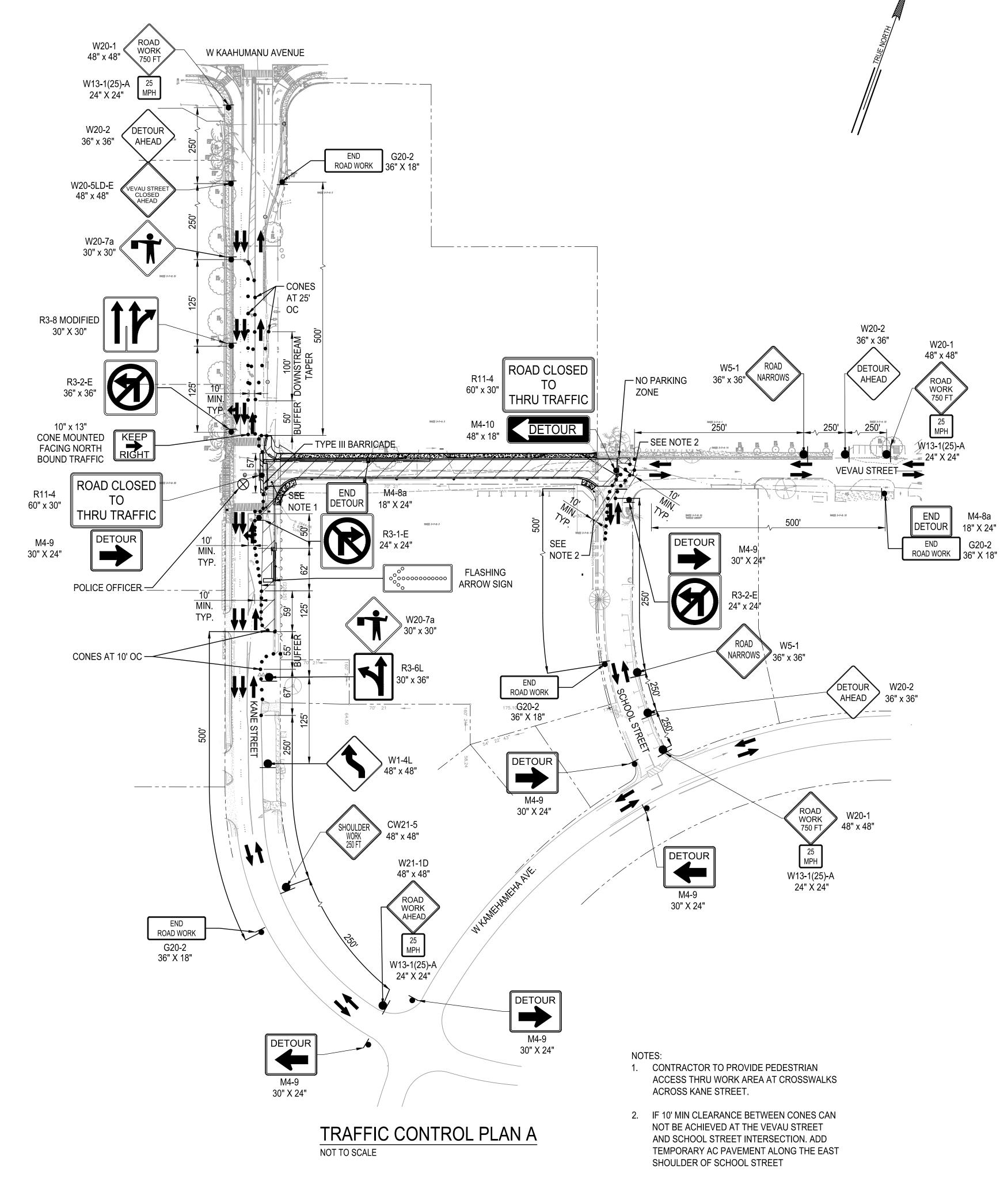
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PREVENT WASH WATER FROM FLOWING OFF-SITE. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

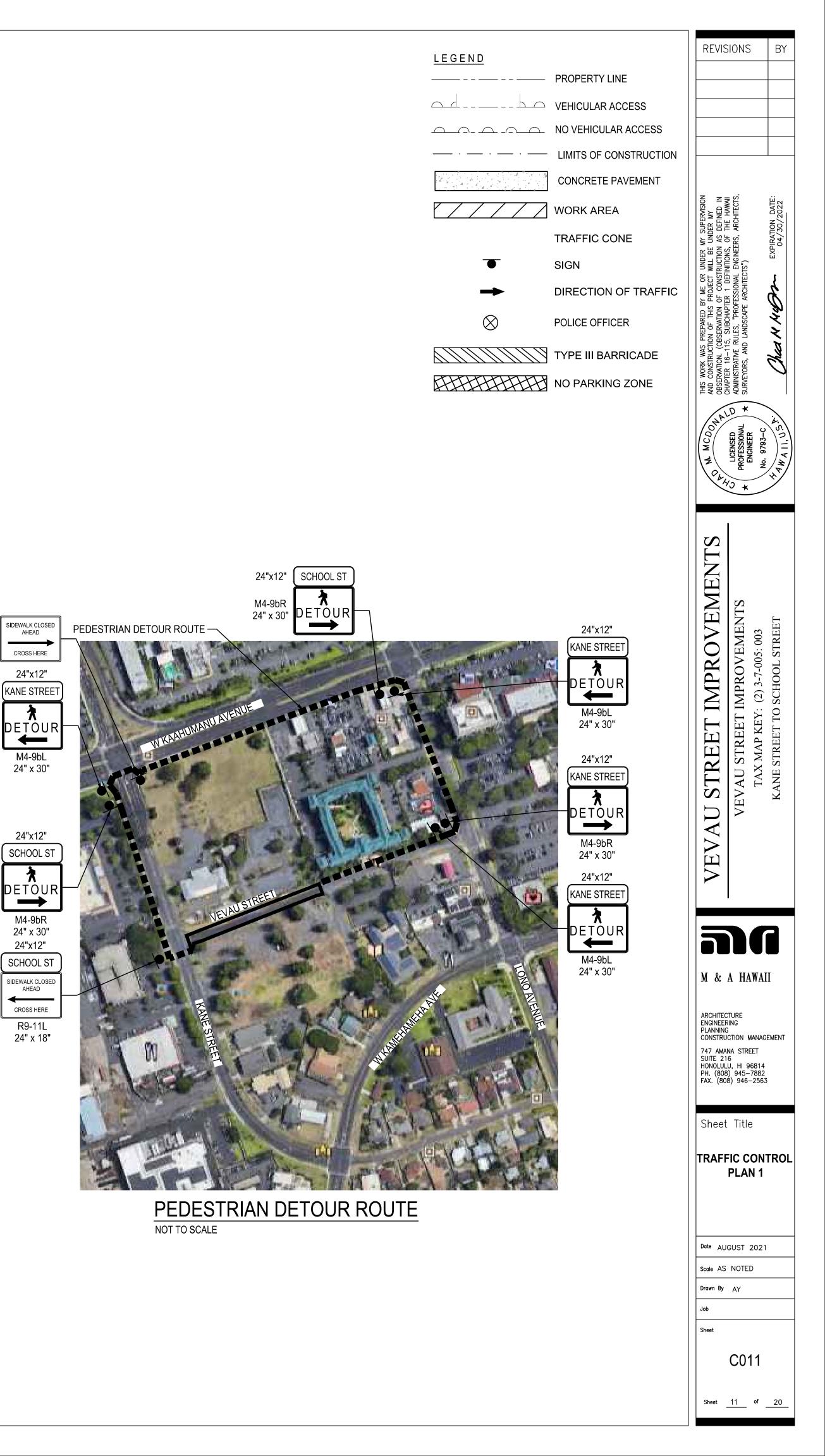




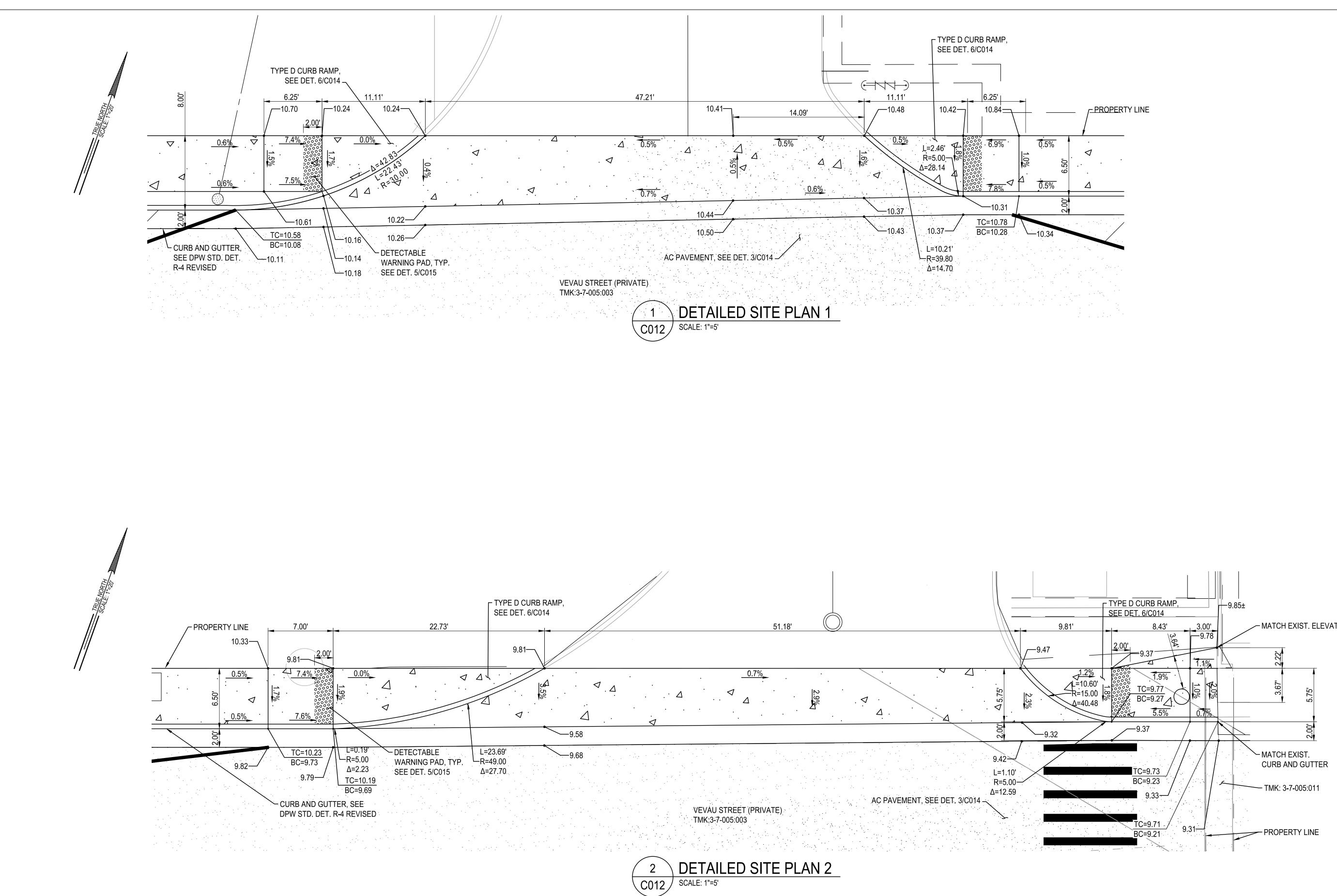
TEMPORARY CONSTRUCTION ACCESS



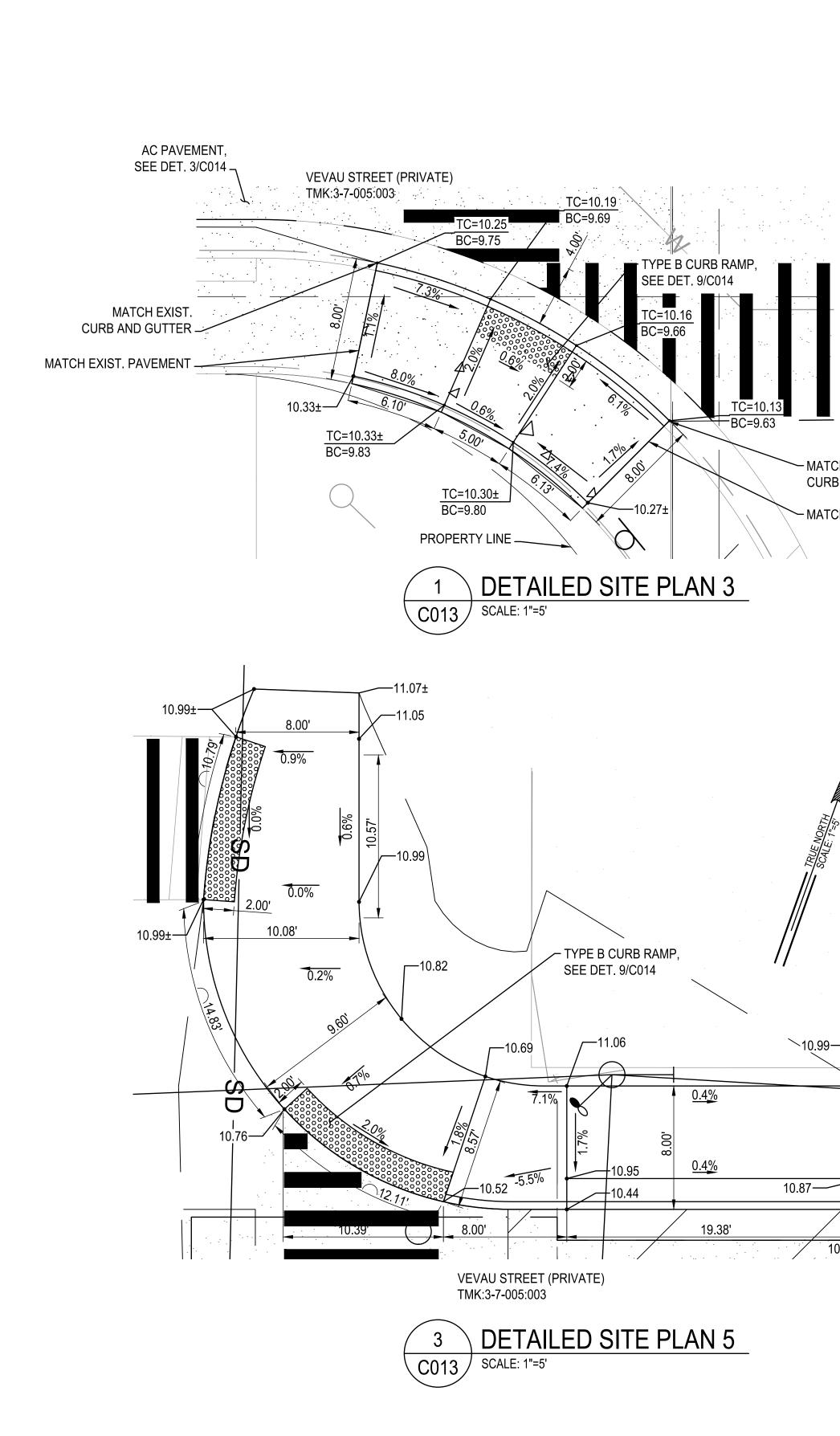


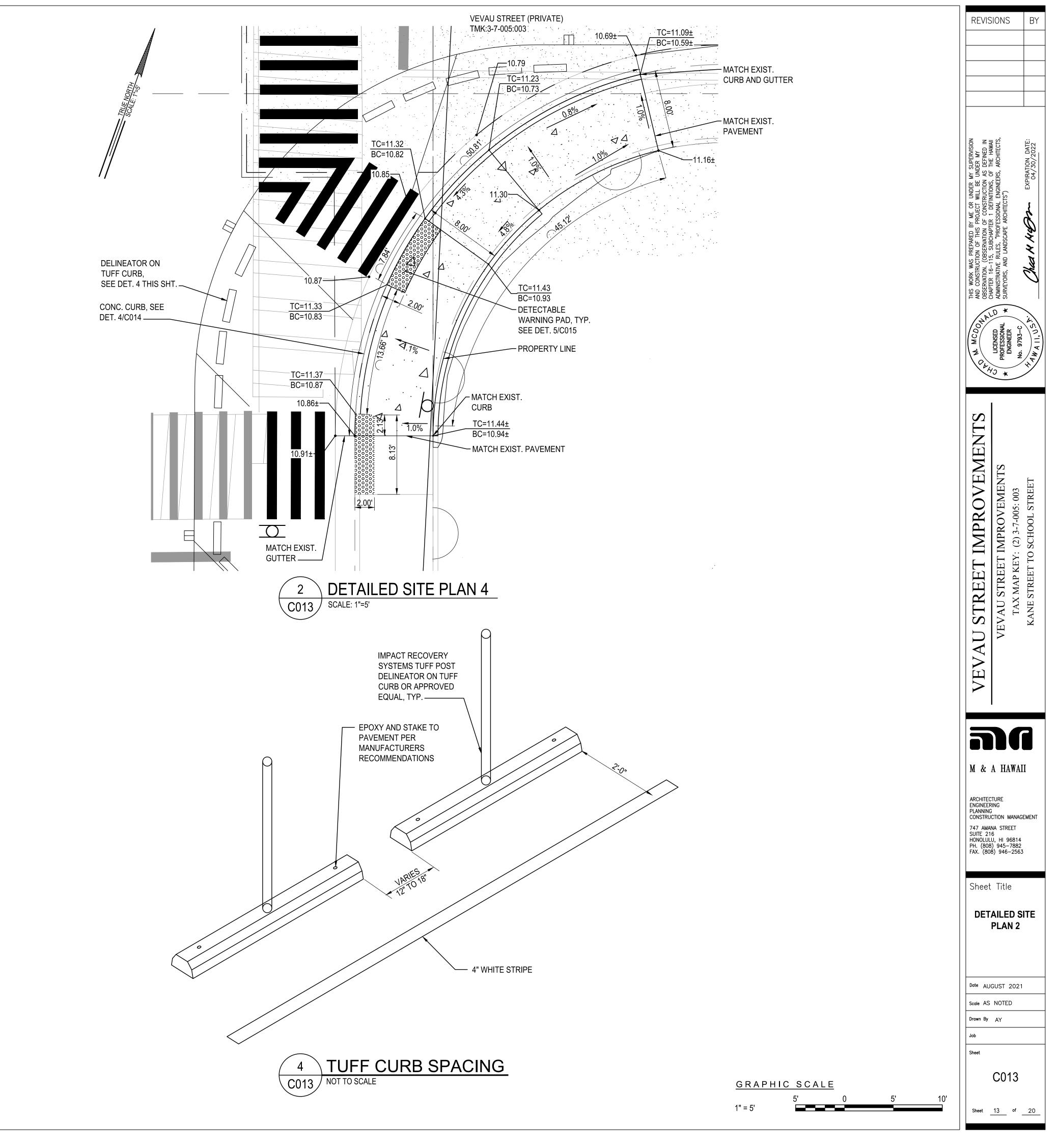


R9-11R 24" x 18"



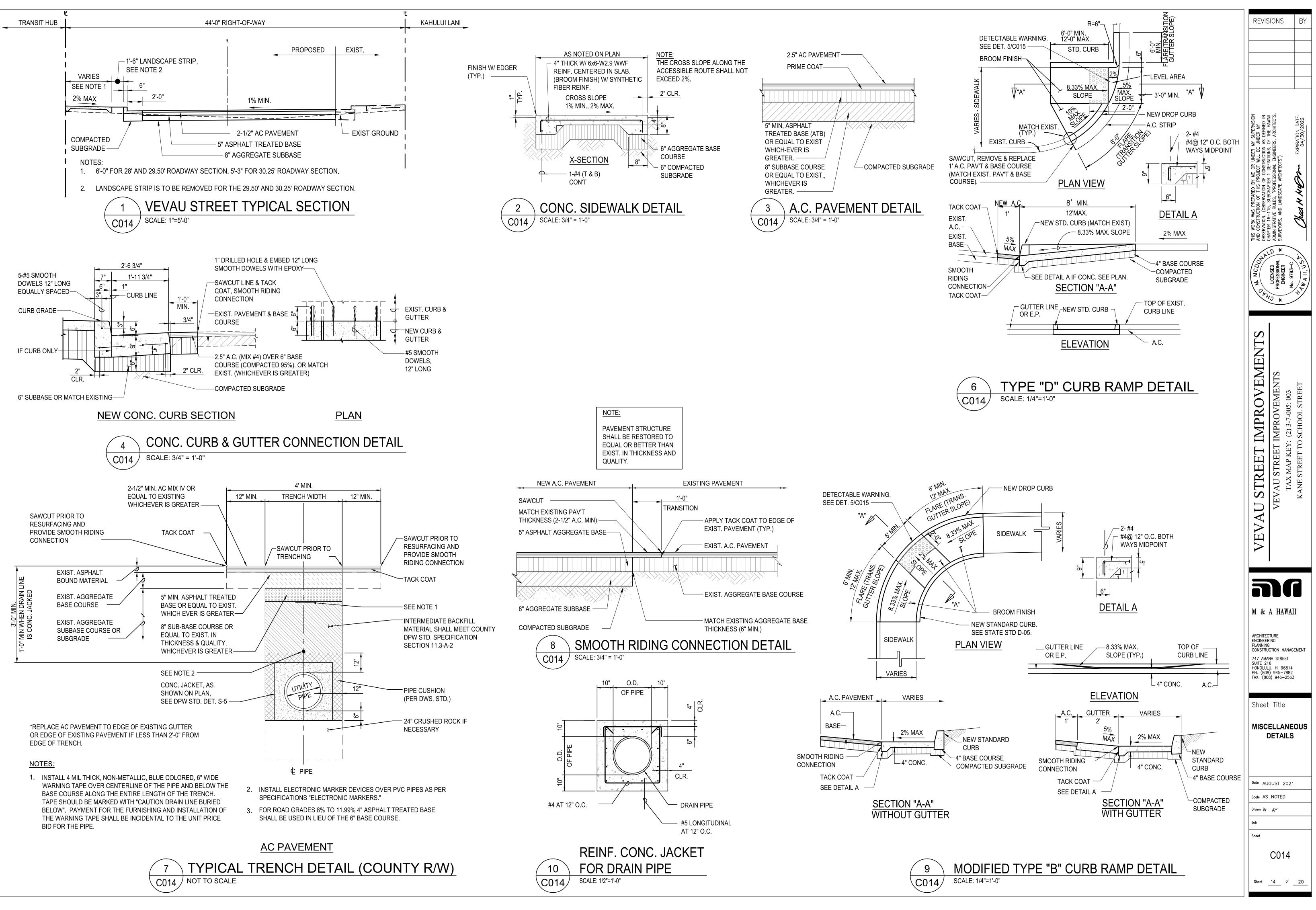
	REVISIONS BY
	M. MCD M. M. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN CHAPTER 16–115, SUBCHAPTER 1 DEFINITIONS, OF THE HAWAII ADMINISTRATIVE RULES, "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS") M. M. J1, U.S. M. M. M. M. EXPIRATION DATE: 04,30/2022
RAMP. 14 43' 9.85± 43' 9.78 MATCH EXIST. ELEVATION	VEVAU STREET IMPROVEMENTS VEVAU STREET IMPROVEMENTS TAX MAP KEY: (2) 3-7-005: 003 TAX MAP KEY: (2) 3-7-005: 003 KANE STREET TO SCHOOL STREET
9% 10 10 10 10 10 5% 0.7% 0.7% 0.7% 0.7% MATCH EXIST. CURB AND GUTTER 3 TMK: 3-7-005:011 1 9.31 PROPERTY LINE	ARCHITECTURE ENGINEERING PLANNING CONSTRUCTION MANAGEMENT 747 AMANA STREET SUITE 216 HONOLULU, HI 96814 PH. (808) 945–7882 FAX. (808) 946–2563 Sheet Title DETAILED SITE PLAN 1
$\frac{GRAPHIC SCALE}{1'' = 5'} \qquad \qquad$	PLAN 1 Date AUGUST 2021 Scale AS NOTED Drawn By AY Job

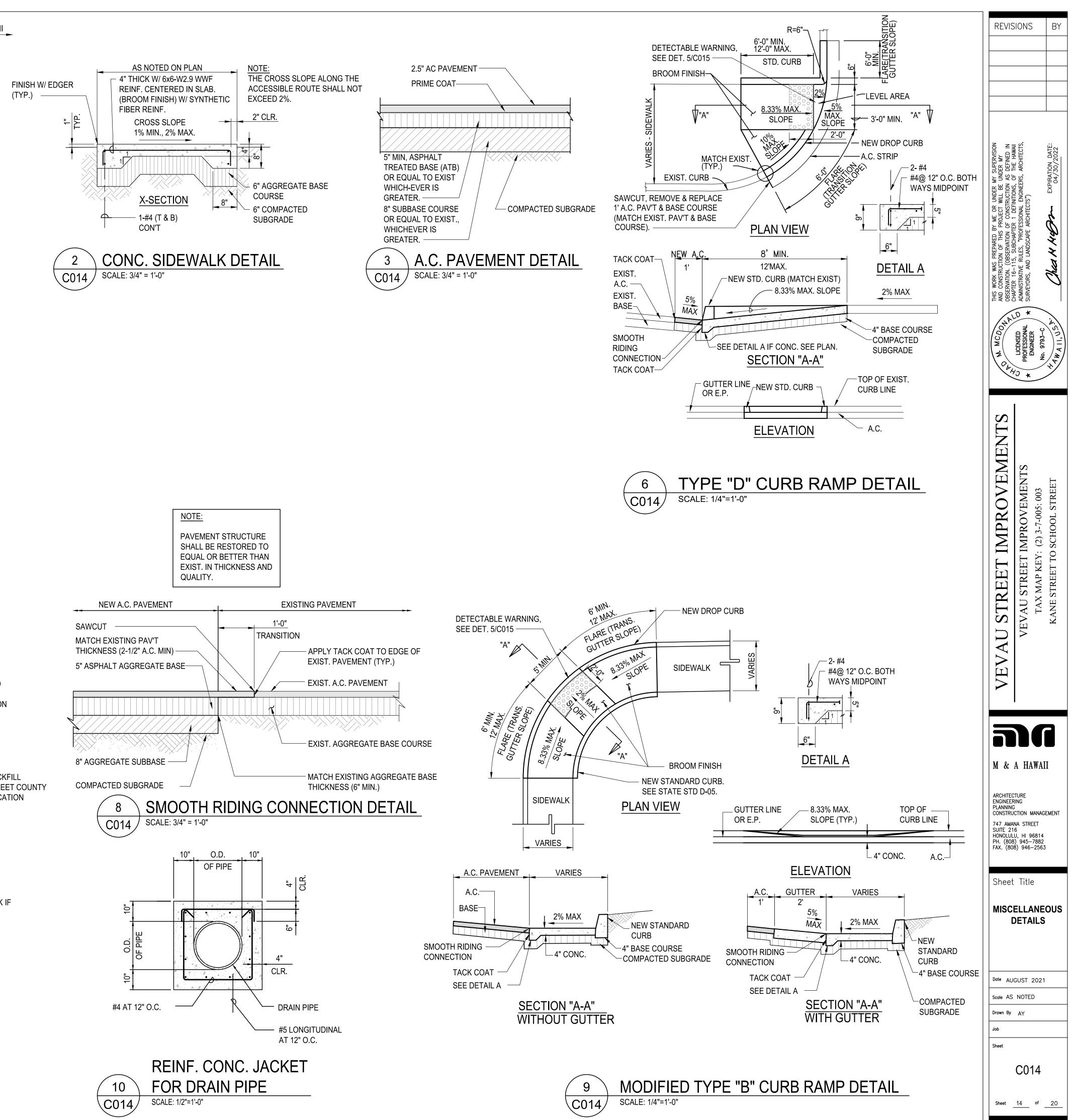


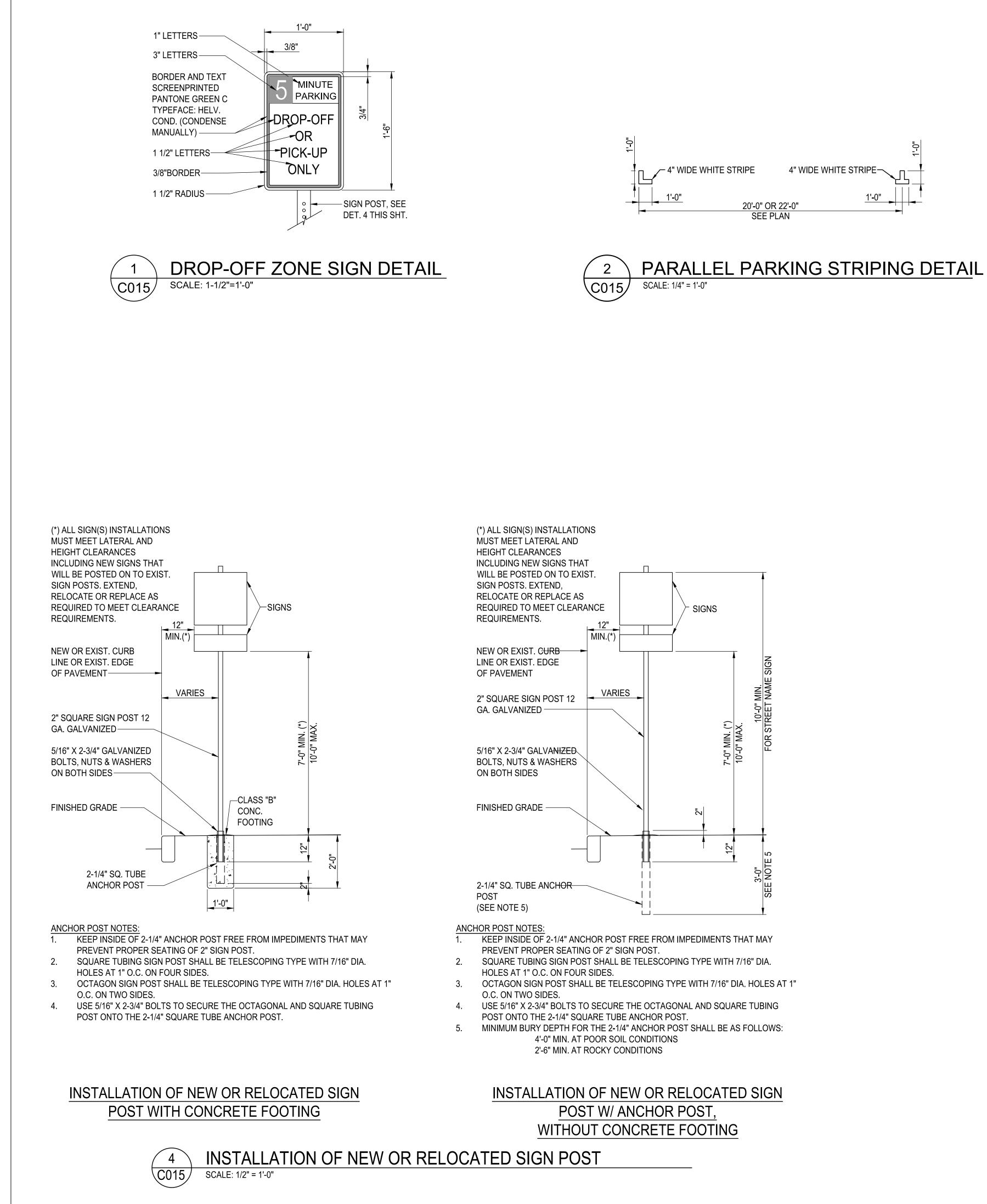


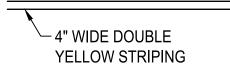
- MATCH EXIST. CURB AND GUTTER - MATCH EXIST. PAVEMENT

> 00.9 00.9 00.9 00.8 00.9 10.32

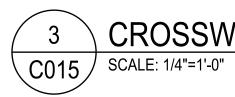








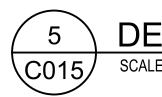
DIRECTION OF TRAFFIC —

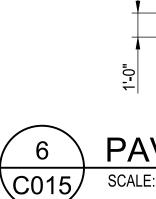


<u>NOTES</u>

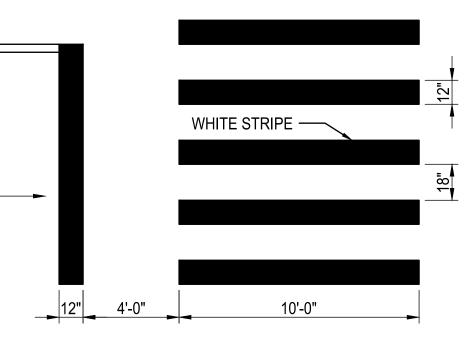
DOMES SHALL BE ALIGNED IN ROWS, NOT SKEWED DIAGONALLY. 5.

6. THERE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTIVE BETWEEN THE DETECTABLE WARNING & ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "SAFETY YELLOW".

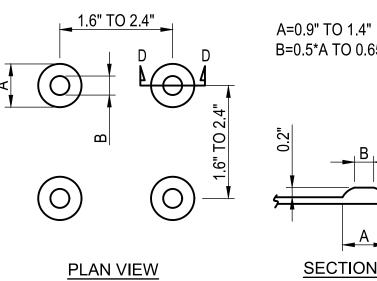


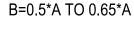


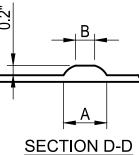
SCALE: 1/4" = 1'-0"



CROSSWALK STRIPING DETAIL







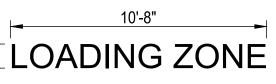
TRUNCATED DOMES SHALL COMPLY WITH ADAAG SECTION 705.

2. DETECTABLE WARNING MAT SHALL BE 24" IN THE DIRECTION OF TRAVEL & EXTEND THE FULL WIDTH OF THE CURB RAMP.

3. TRUNCATED DOMES SHALL HAVE A BASE-TO-BASE SPACING ON 0.65 IN MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID PER ADAAG SECTION 705.1.2.

4. TRUNCATED DOMES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT,

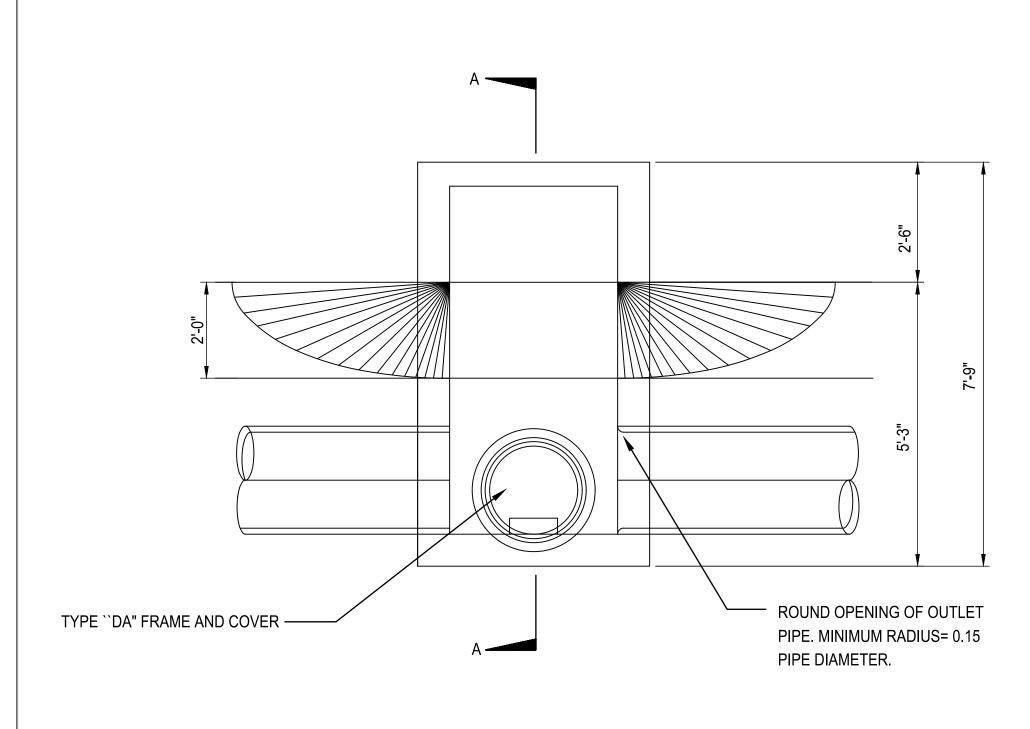
DETECTABLE WARNINGS SCALE: 1" = 1'-0"



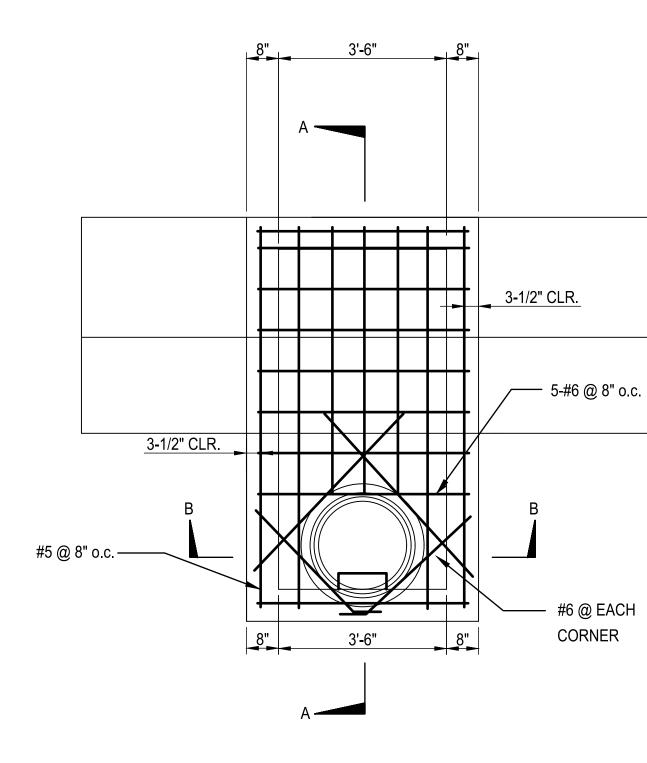
<u>NOTE:</u> STRIPING SHALL BE THERMOPLASTIC PER MUTCD AND HDOT SPECIFICATIONS.

PAVEMENT WORD STRIPING DETAIL

REVIS	SIONS	B`	Ý
M. MCDON THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION (OBSERVATION OF CONSTRUCTION AS DEFINED IN CUADATED 16-115, SUPCUMPTED 1, DEFINITIONS OF THE UMMINI	ICENSED FESSIONAL	No. 9793-C X 4	
VEVAU STREET IMPROVEMENTS	VEVAU STREET IMPROVEMENTS	TAX MAP KEY: (2) 3-7-005: 003 KANE STREET TO SCHOOL STREET	
ARCHITEC ENGINEEF PLANNING CONSTRU 747 AMAI SUITE 21 HONOLUL PH. (808 FAX. (803 Sheet	RING CTION MA NA STREE 0, HI 96 1) 945-7 8) 946-2 Title	NNAGEMENT ET 814 882	
		021	
Date AU Scale AS Drawn By Job Sheet	NOTED	5	

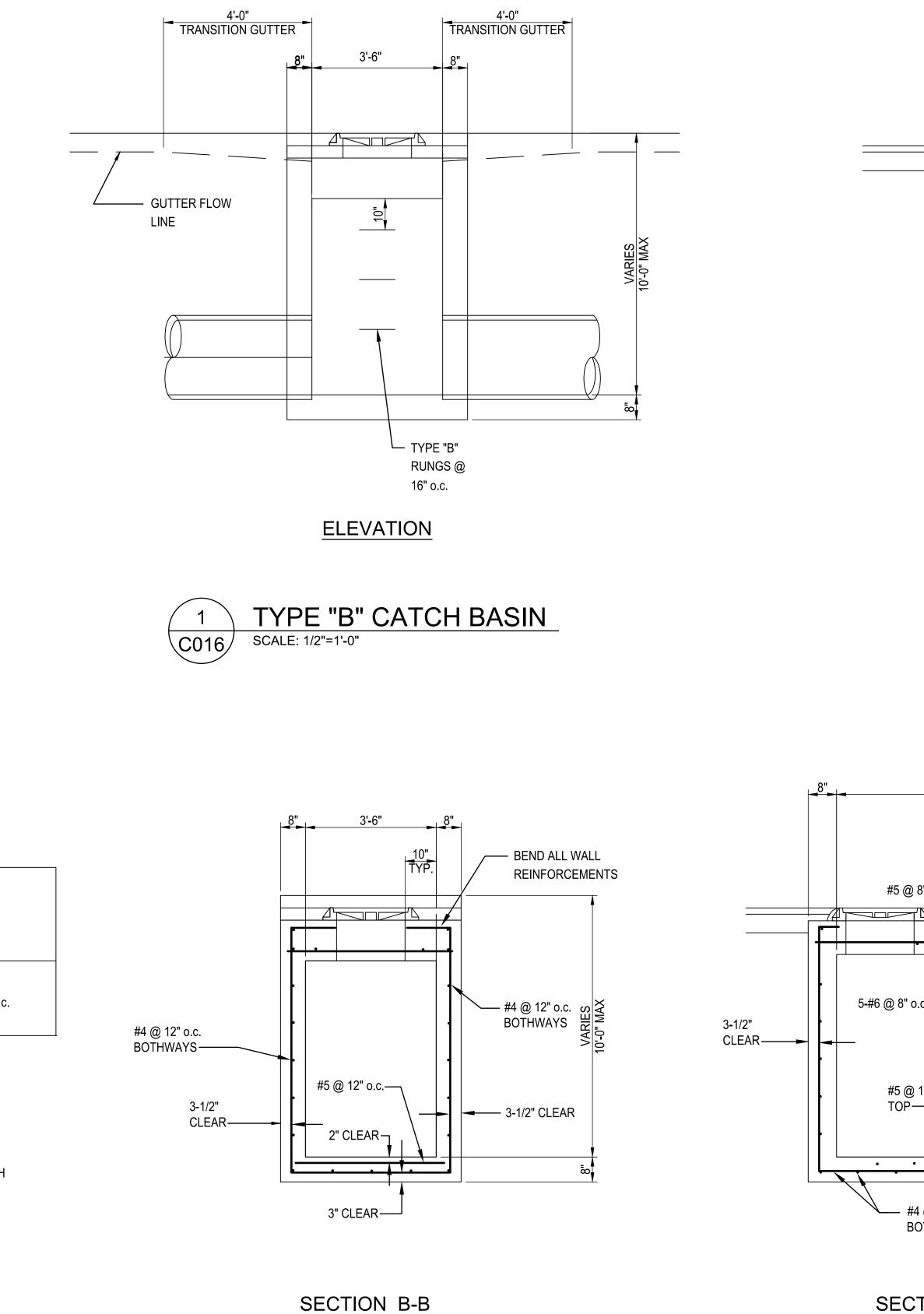




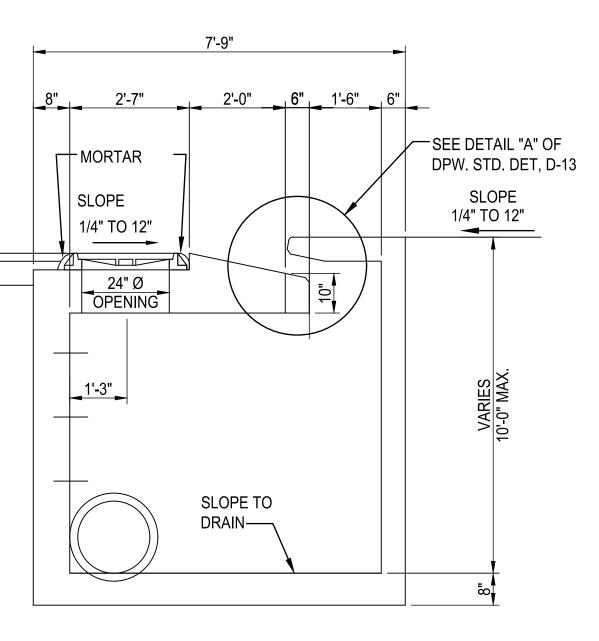




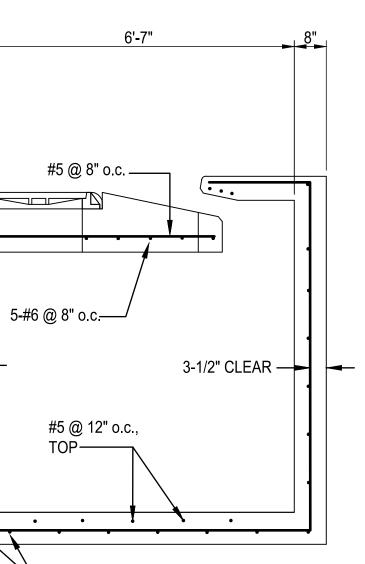




TYPE "B" CATCH BASIN REINFORCEMENT DETAILS SCALE: 1/2"=1'-0"



SECTION "A-A"

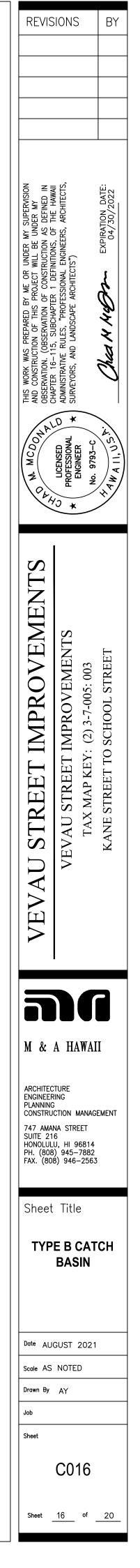


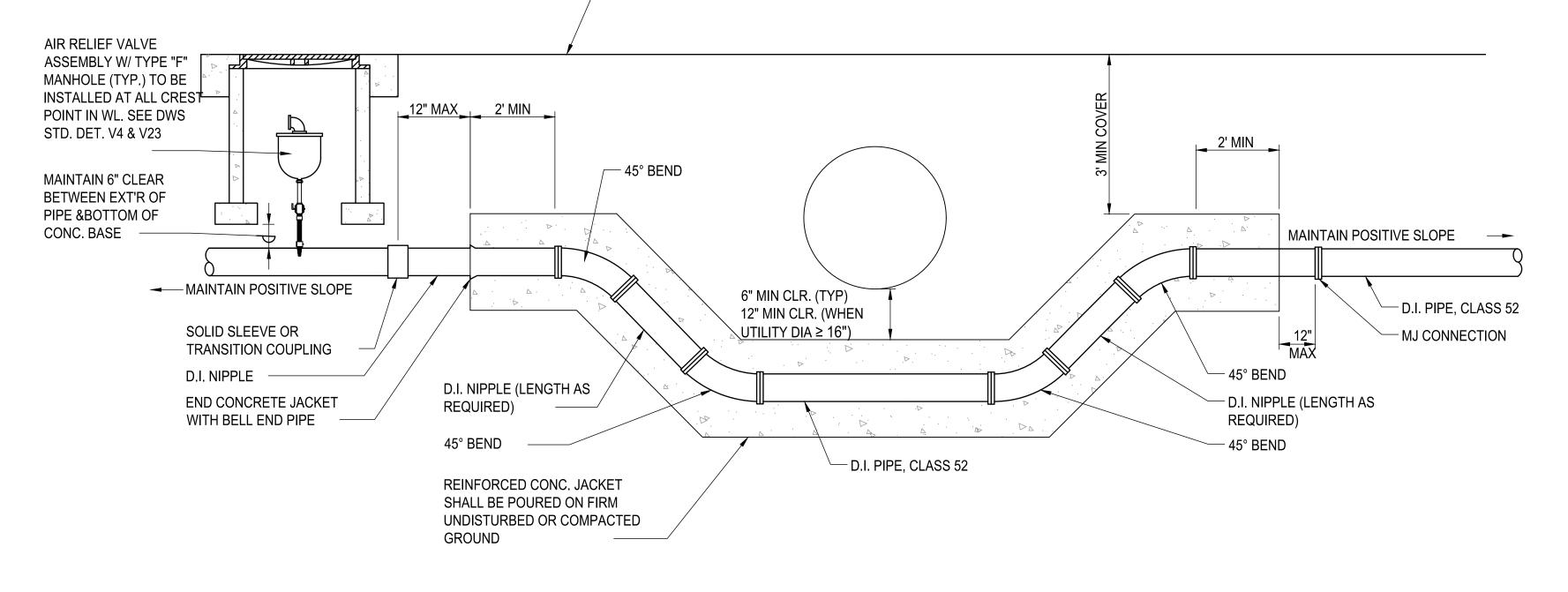
#4 @ 12" o.c.
BOTHWAYS, BOTTOM

SECTION A-A

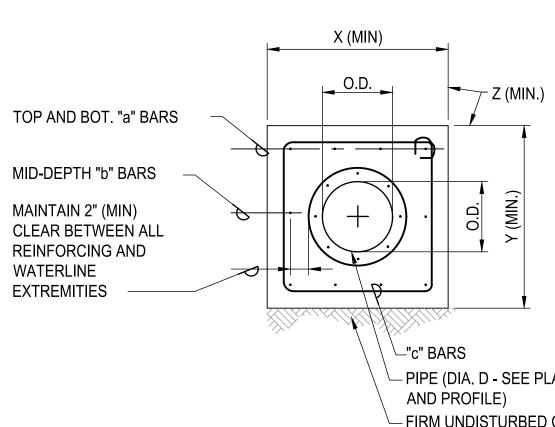
NOTES:

- 1. PROVIDE 2 CU. FT. OF CRUSHED ROCK, ASTM SIZE #9 ROCK SAND, AT WEEP HOLE.
- 2. C.B. WING SHALL BE INSTALLED TO FAVOR UPSTREAM OF GUTTER FLOW
- 3. RUNGS SHALL NOT BE INSTALLED OVER A PIPE CONNECTION AND THE LOWEST RUNG SHALL BE NOT MORE THAN 2'-0" ABOVE THE INVERT.
- 4. SEE DET. 2 ON THIS SHEET FOR REINFORCEMENT DETAILS.
- 5. FOR ALL OTHER REQUIREMENTS SEE DPW STD DETAIL D-6, TYPE B CATCH BASIN WITHOUT THE WING.





- THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND TYPE OF THE EXIST WATERLINE PRIOR TO COMMENCEMENT OF ANY WATERLINE OFFSET WORK. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY SHOULD ANY DISCREPANCIES BE DISCOVERED, PRIOR TO COMMENCEMENT WITH ANY WORK, OTHERWISE ALL CORRECTIVE WORK SHALL BE MADE BY THE CONTRACTOR AT HIS EXPENSE.
- 2. SHOULD A.C. PIPE BE DISCOVERED, THE CONTRACTOR SHALL REMOVE ONE SECTIO OF A.C. PIPE AT EACH CONNECTION AND REPLACE THE SAME WITH EQUIVALENT DIAMETER DUCTILE IRON PIPE, CLASS 52.
- 3. ALL JOINTS AND FITTINGS SHALL BE MECHANICAL JOINT.
- 4. INVERT ELEVATIONS OF THE TOP BENDS SHALL BE THE SAME. 5. INVERT ELEVATIONS OF THE BOT. BENDS SHALL BE THE SAME.



SECTION A NOT TO SCALE



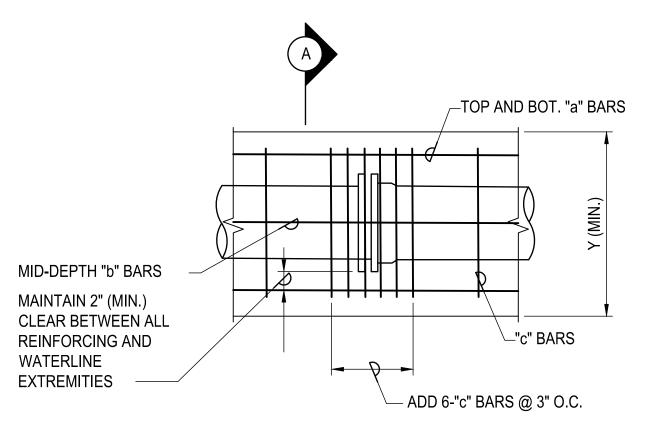
DETAIL - WATERLINE OFFSET AT DRAINLINE CROSSING SCALE: 1/2" = 1 FT.

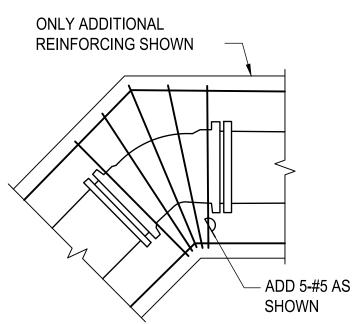
		REINFORCING BAR & DIMENSION SCHEDULE								
	DIAMETER	H (MAX)	Х	Y	Z	TOP & BOT "a" BARS	"b" BARS	"c" BARS		
	12"	4'-0"	2'-8"	2'-8"	10"	4-#6 T&B	2 - #6	#5 @ 12" O.C.		
Ν	12"	5'-0"	2'-8"	2'-8"	10"	2-#6 T&B, 2-#7 T&B	2-#7	#5 @ 12" O.C.		
	12"	6'-0"	3'-0"	3'-0"	1'-0"	2-#6 T&B, 2-#7 T&B	2-#7	#5 @ 12" O.C.		
	12"	7'-0"	3'-0"	3'-0"	1'-0"	4-#7 T&B	2 - #7	#5 @ 12" O.C.		
	12"	8'-0"	3'-0"	3'-0"	1'-0"	5-#7 T&B	2-#7	#5 @ 12" O.C.		

NOTES:

- CONCRETE: fc' = 3500 P.S.I. (MIN.)
- 2. STEEL REINFORCEMENT: fy = 60 K.S.I. (ASTM A615 GRADE 60) HYDRAULIC DESIGN PRESSURE: 250 P.S.I. (150 P.S.I. PLUS 100 P.S.I. SURGE)
- FABRICATION OF STRUCTURE. 5. FOR PRE-CAST APPLICATIONS, CONTRACTOR SHALL SUBMIT STRUCTURALLY-STAMPED
- SHOP DRAWINGS DETAILING SAME AT LEAST TEN (10) WORKING DAYS PRIOR TO FABRICATION OF STRUCTURE.
- 7. CONCRETE JACKETING OF A.C. OR P.V.C. PIPE SHALL NOT BE ALLOWED. 8. ALL INTERIOR JOINTS AND FITTINGS SHALL BE "MJ".

– PIPE (DIA. D - SEE PLAN - FIRM UNDISTURBED OR COMPACTED BEARING





NOT TO SCALE

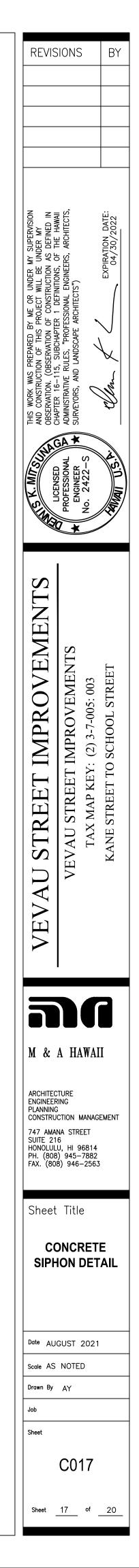
DETAIL - CONC. JACKET AT INTERIOR JOINTS NOT TO SCALE

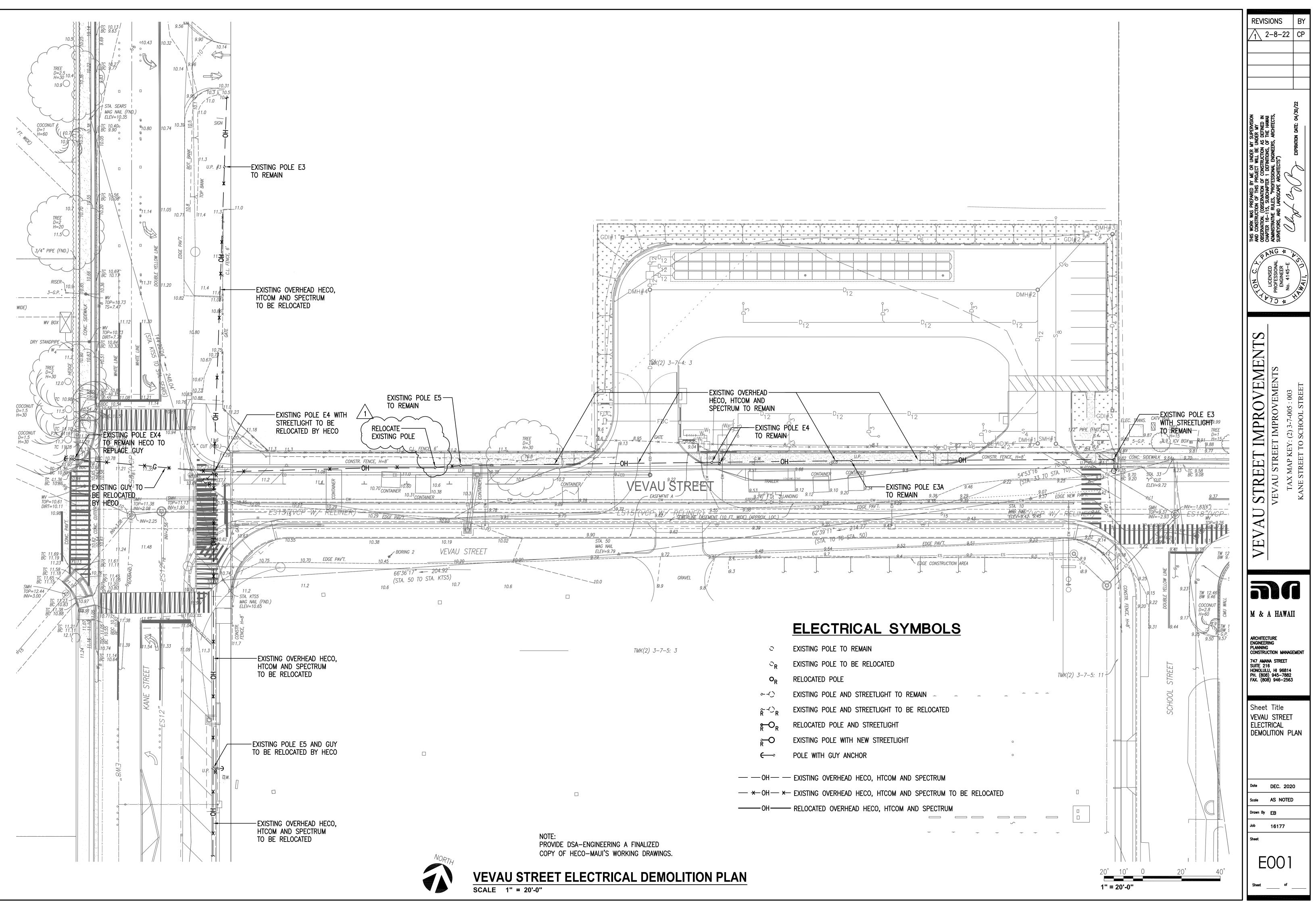
DETAIL - ADDITIONAL REINFORCEMENT AT BENDS

SHOP DRAWINGS DETAILING LIFTING CONFIGURATION AND INTEGRAL LIFTING HARDWARE AT LEAST TEN (10) WORKING DAYS PRIOR TO FABRICATION OF STRUCTURE. 6. FOR CAST-IN-PLACE APPLICATIONS, WHERE HYDRAULIC PRESSURE IS EXPECTED PRIOR TO AT LEAST FOURTEEN (14) DAYS AFTER PLACEMENT OF CONCRETE. CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINTS OR RESTRAINED JOINTS (MEGALUG OR APPROVED EQUAL). AS REQUESTED, AND SHALL SUBMIT STRUCTURALLY-STAMPED

FOR CONCRETE AND STEEL REINFORCEMENT WITHIN TWO (2) WORKING DAYS AFTER

CONTRACTOR SHALL SUBMIT CERTIFICATION OF COMPLIANCE WITH ABOVE CRITERIA





		ELECTRICAL SYMBOL
 ТМК(2) 3—7—5: 3	0	EXISTING POLE TO REMAIN
	ି _R	EXISTING POLE TO BE RELOCATED
	o _R	RELOCATED POLE
	<u>~</u> -()	EXISTING POLE AND STREETLIGHT TO REMAIN $-$
	Ř [−] ⊂R	EXISTING POLE AND STREETLIGHT TO BE RELOCATED
	₽ ₽ ₽	RELOCATED POLE AND STREETLIGHT
	Ř–O	EXISTING POLE WITH NEW STREETLIGHT
	Ć	POLE WITH GUY ANCHOR
	— — OH— —	EXISTING OVERHEAD HECO, HTCOM AND SPECTRUM
	— × 0H— ×	EXISTING OVERHEAD HECO, HTCOM AND SPECTRUM
	OH	RELOCATED OVERHEAD HECO, HTCOM AND SPECTRU



