

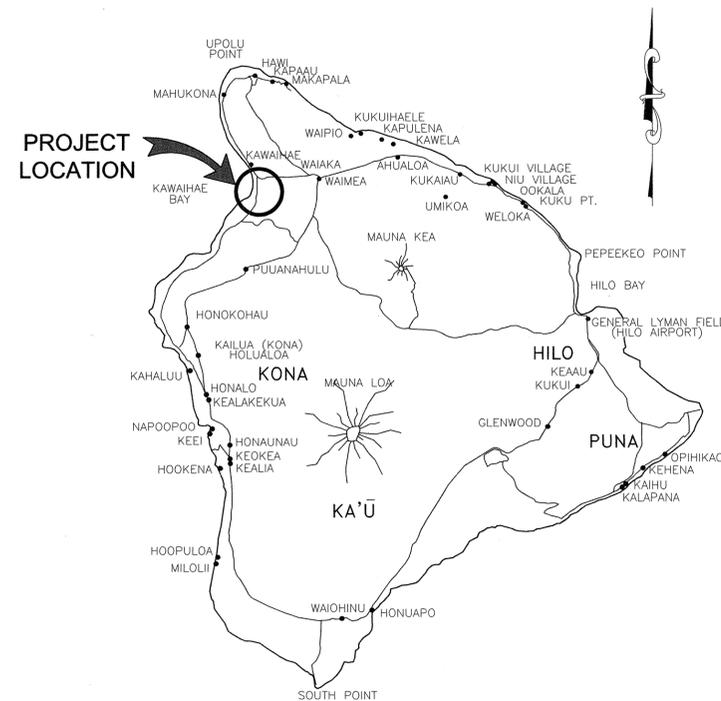
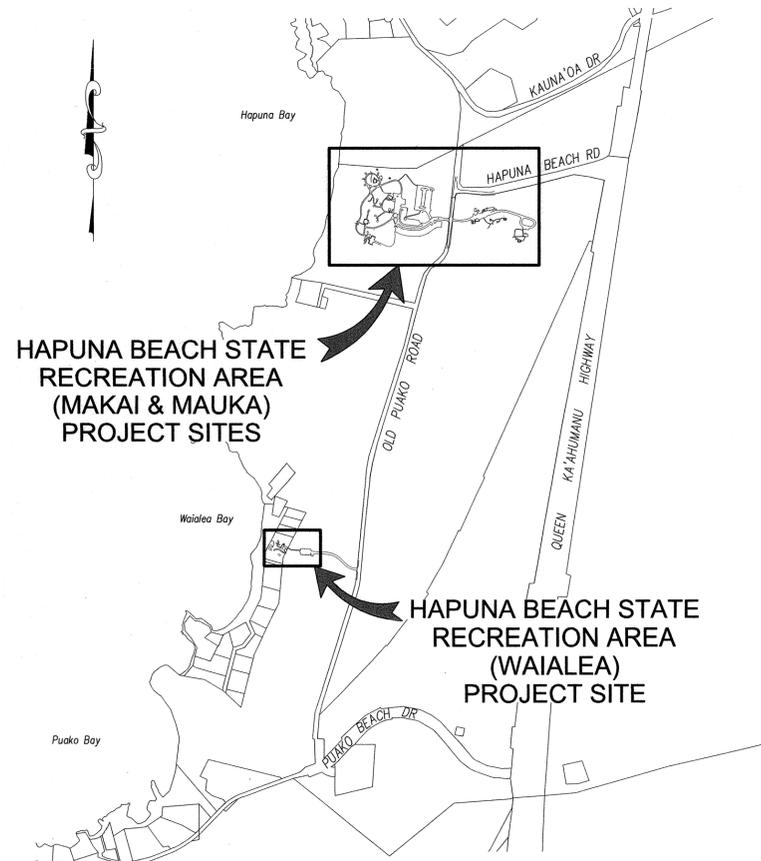
STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 ENGINEERING DIVISION
 FOR
 DIVISION OF STATE PARKS
 JOB NO. F75C646E

HAPUNA BEACH STATE RECREATION AREA PARK IMPROVEMENTS AND REPAIRS, PHASE 3

SOUTH KOHALA, ISLAND OF HAWAII, HAWAII
 TMK: (3) 6-6-02: 7, 35 & 41

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APPROVED:

Curt A. Cottrell
 CURT A. COTTRELL
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 DEPARTMENT OF LAND AND NATURAL RESOURCES

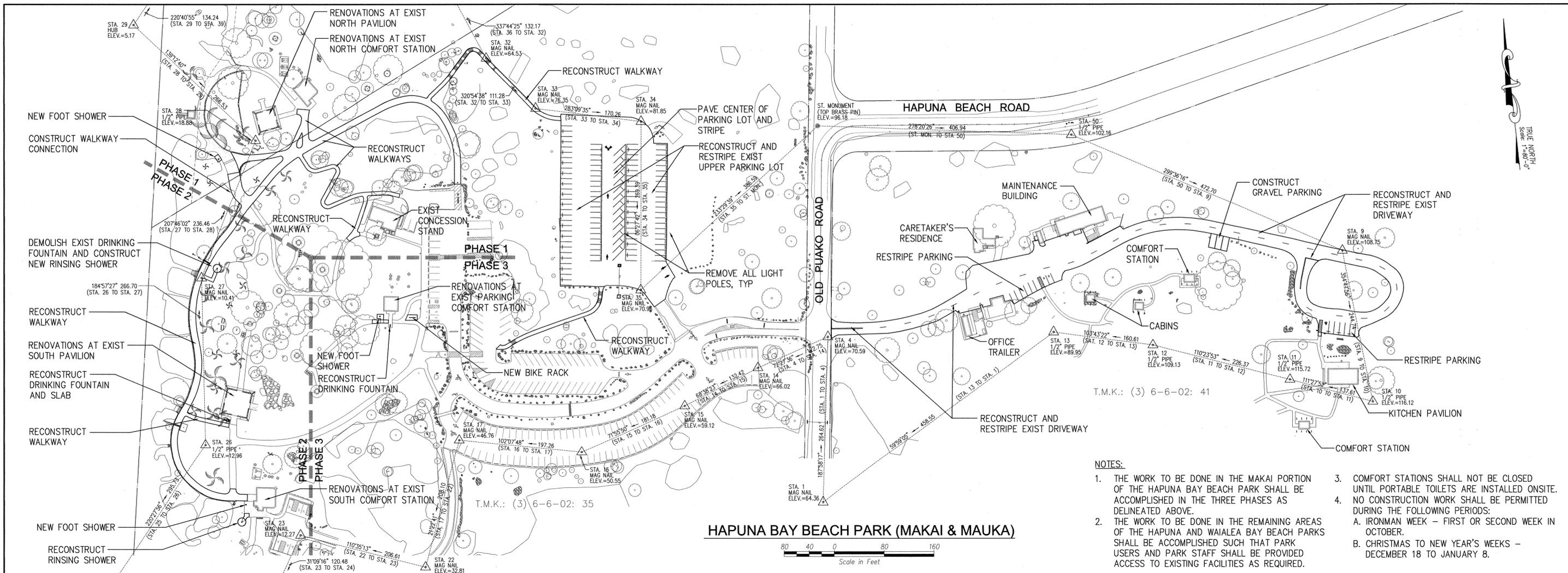
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Carty S. Chang
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 ENGINEERING DIVISION
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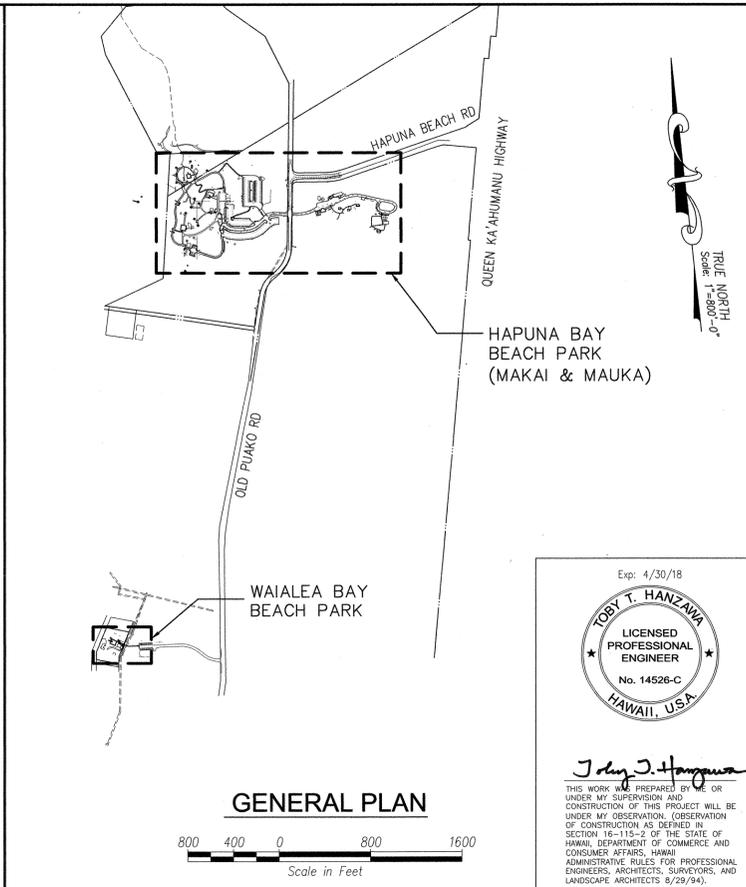
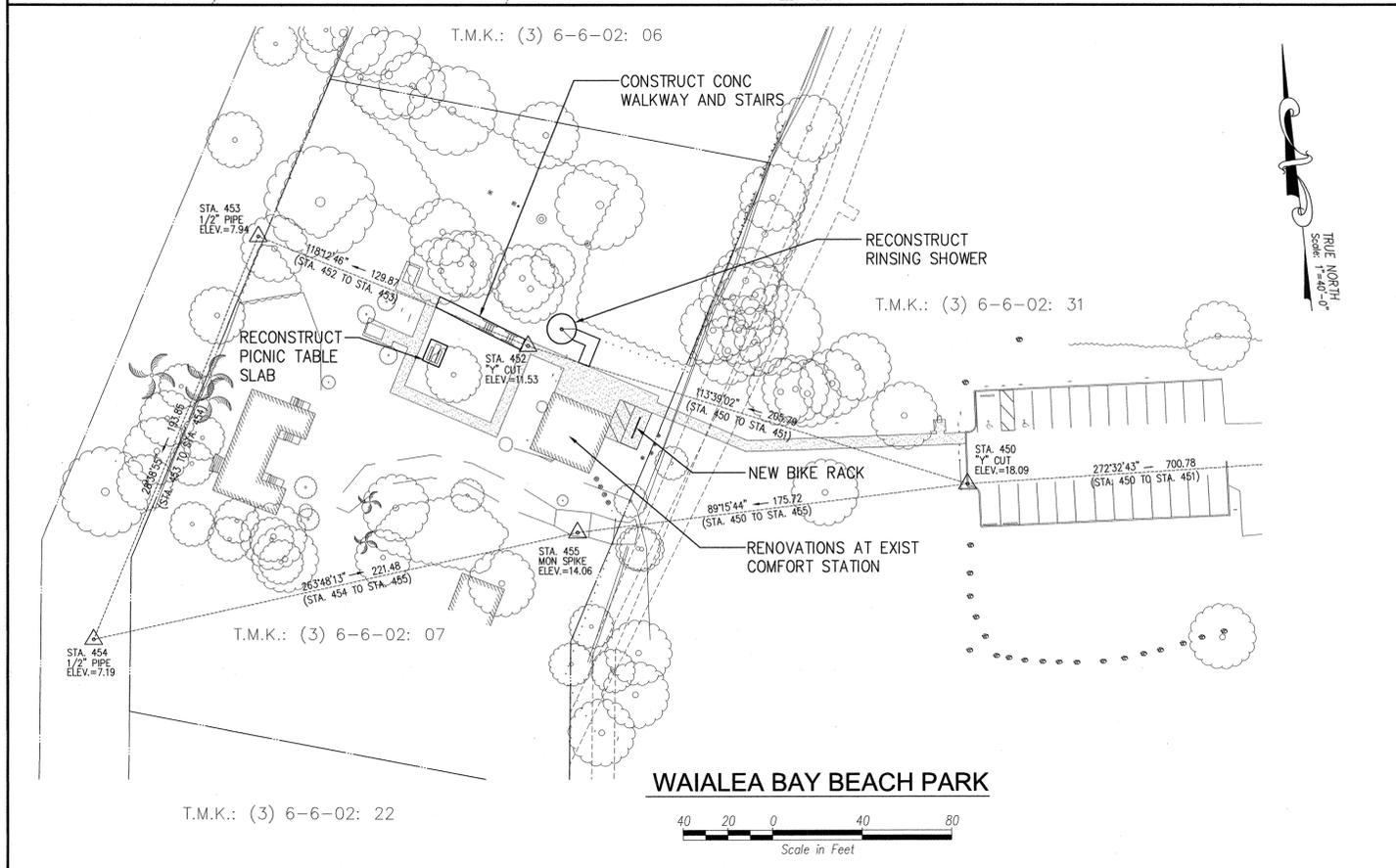
5/3/16
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DRAWING NO.
T-1

JOB NO. F75C646E; HAPUNA BEACH STATE RECREATION AREA PARK IMPROVEMENTS AND REPAIRS, PHASE 3



- NOTES:**
1. THE WORK TO BE DONE IN THE MAKAI PORTION OF THE HAPUNA BAY BEACH PARK SHALL BE ACCOMPLISHED IN THE THREE PHASES AS DELINEATED ABOVE.
 2. THE WORK TO BE DONE IN THE REMAINING AREAS OF THE HAPUNA AND WAIALEA BAY BEACH PARKS SHALL BE ACCOMPLISHED SUCH THAT PARK USERS AND PARK STAFF SHALL BE PROVIDED ACCESS TO EXISTING FACILITIES AS REQUIRED.
 3. COMFORT STATIONS SHALL NOT BE CLOSED UNTIL PORTABLE TOILETS ARE INSTALLED ONSITE.
 4. NO CONSTRUCTION WORK SHALL BE PERMITTED DURING THE FOLLOWING PERIODS:
 - A. IRONMAN WEEK - FIRST OR SECOND WEEK IN OCTOBER.
 - B. CHRISTMAS TO NEW YEAR'S WEEKS - DECEMBER 18 TO JANUARY 8.



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS GENERAL PLAN					
DESIGNED: TH	SUBMITTED: <i>[Signature]</i>				
DRAWN: JG	DATE: APRIL 2016				
CHECKED: MN	SCALE: AS SHOWN				
APPROVED: <i>[Signature]</i>	DATE: MAY - 3 2016		DRAWING NO. C-1		
CHIEF ENGINEER					

GENERAL CONSTRUCTION NOTES:

- ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", DATED 2005 AND THE COUNTY OF HAWAII DEPARTMENT OF PUBLIC WORKS (DPW) "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1986 AND "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1984 WHERE APPLICABLE.
- VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION 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 COSTS INCURRED FOR ANY REMEDIAL ACTION SHALL BE PAYABLE BY THE CONTRACTOR.
- 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. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AND SHALL BE THE CONTRACTORS RESPONSIBILITY. PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. WHEREVER 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 AND DEPTHS PRIOR TO EXCAVATION FOR NEW LINES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
- THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL OR BETTER CONDITION ALL IMPROVEMENTS AND VEGETATION DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL.
- WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. TEMPORARY PASSAGEWAYS SHALL BE ACCESSIBLE PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2, SECTIONS 201.3 AND 206.1.
- EXISTING TOPOGRAPHIC SURVEY WAS CONDUCTED BETWEEN MAY AND OCTOBER 2015 BY CONTROLPOINT SURVEYING, INC. THIS TOPOGRAPHIC SURVEY WAS BASED ON THE BEST AVAILABLE INFORMATION AND THE CONTRACTOR MUST VERIFY IT IS ACCURATE PRIOR TO CONSTRUCTION.
- NO BLASTING SHALL BE ALLOWED ON THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE ONE CALL CENTER AT (866) 423-7287 AT LEAST 5 WORKING DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
- FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NPDES PERMIT IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. ALSO, FOR COUNTY PROJECTS, THE CONTRACTOR SHALL PROVIDE A WRITTEN COPY OF THE NPDES PERMIT TO THE APPROPRIATE COUNTY DEPARTMENT OR GOVERNMENTAL AGENCY PER THEIR REQUIREMENTS.
- WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO ON THE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORK HOURS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM APPROPRIATE GOVERNMENT AGENCIES.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR UTILITIES SUCH AS ELECTRICITY, WATER, ETC. REQUIRED FOR HIS OPERATIONS AND ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
- GENERAL CONTRACTOR TO CONSTRUCT TEMPORARY BARRICADES DURING CONSTRUCTION, FOR THE PROTECTION OF LIFE, SAFETY AND PROPERTY.
- THE JOB SITE MUST BE LEFT IN A SAFE, SECURE CONDITION AT THE END OF EACH CONSTRUCTION WORK DAY. CLEAN UP AND REMOVE FROM THE JOB SITE ALL RUBBISH AND MAINTAIN THE PREMISES IN A CLEAN ORDERLY CONDITION AT ALL TIMES.
- UPON COMPLETION OF CONSTRUCTION THE ENTIRE JOB SITE SHALL BE CLEANED OF ALL RUBBISH AND DEBRIS.
- THE PARK SHALL REMAIN OPEN DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL INSTALL ADEQUATE TEMPORARY BARRICADES AND WARNING SIGNS TO PROTECT THE PUBLIC DURING THE CONSTRUCTION PERIOD. PROVIDE AND MAINTAIN A SAFE PEDESTRIAN ACCESS AND VEHICLE ACCESS TO THE PARK AND PARK FACILITIES THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION AND ANY DAMAGE TO THEM SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
- ALL REQUIRED UTILITY ADJUSTMENTS SUCH AS MANHOLE AND/OR VALVE BOX FRAMES AND COVERS SHALL BE DONE BY THE CONTRACTOR.
- ALL STRIPING SHALL BE THERMOPLASTIC.
- PROVIDE THEFT-RESISTANT FASTENERS FOR ALL ACCESSORY MOUNTINGS. ALL FASTENERS SHALL BE STAINLESS STEEL WITH THEFT-RESISTANT TYPE HEADS OR NUTS.
- CONTRACTOR SHALL ENSURE THAT TEMPORARY PEDESTRIAN ROUTES BE ACCESSIBLE AND SHALL COMPLY WITH ADAAG 201.3 AND ADAAG 206.1.

CONDITIONS – GRUBBING, GRADING, STOCKPILING:

- ALL WORK SHALL CONFORM TO CHAPTER 10 OF HAWAII COUNTY CODE. SHOULD A GRADING PERMIT BE REQUIRED, NO WORK SHALL COMMENCE UNTIL THE DEPARTMENT OF PUBLIC WORKS (DPW) APPROVES A GRADING PERMIT.
- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM THIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DPW SHALL BE PAYABLE BY THE CONTRACTOR.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES (HAR), TITLE 11, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS, AND THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- THE CONTRACTOR SHALL INFORM THE DPW OF THE LOCATION OF THE DISPOSABLE AND/OR BORROW SITE(S) REQUIRED FOR THIS PROJECT WHEN AN APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL AND/OR BORROW SITE(S) MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS. GRADING WORK ON NORMAL WORKING HOURS SHALL BE BETWEEN 7:00 A.M. TO 3:30 P.M.
- THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACE.
- SHOULD ANY UNANTICIPATED ARCHAEOLOGICAL SITE(S) BE UNCOVERED, ALL WORK SHALL CEASE IN THE IMMEDIATE AREA AND THE DLNR, HISTORIC PRESERVATION DIVISION (692-8015) SHALL BE NOTIFIED. NO WORK SHALL RESUME UNTIL CLEARANCE HAS BEEN OBTAINED FROM THE HISTORIC PRESERVATION DIVISION.
- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
- ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL 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.
- 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.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- PROVIDE SMOOTH GRADED TRANSITION FROM NEWLY CONSTRUCTED AREAS TO EXISTING GROUND. NEWLY EXPOSED AREAS TO BE RESTORED TO EXISTING CONDITION OR BETTER.

SOLID WASTE CONSTRUCTION NOTES:

- UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, STORAGE AND/OR DISPOSAL OF ALL WASTE GENERATED BY THIS CONSTRUCTION INCLUDING GRUBBING AND EXCESS EXCAVATED MATERIAL. ANY MATERIAL BROUGHT TO THE COUNTY LANDFILLS WILL BE SUBJECTED TO THE INSTITUTED TIPPING FEE SYSTEM, WITH NO EXCEPTIONS OR EXEMPTIONS.
- ALL WASTES GENERATED BY CONSTRUCTION, INCLUDING GRUBBING, DEMOLITION AND EXCESS EXCAVATION MATERIAL MAY BE BROUGHT TO THE WEST HAWAII OR THE HILO LANDFILL. LANDFILL FEE SHALL BE NEGOTIATED BY CONTRACTOR AND LANDFILL MANAGEMENT.
- CONSTRUCTION, DEMOLITION AND GRUBBING MATERIAL SHALL NOT BE DEPOSITED AT ANY OF THE COUNTY TRANSFER STATIONS, BUT SHALL BE TRANSPORTED FOR DISPOSAL AT EITHER THE WEST HAWAII OR HILO LANDFILL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, OBTAINING APPROVAL AND PAYING THE NECESSARY FEES FOR A SOLID WASTE DEMOLITION PLAN/REPORT (SWDP) AND A NOTICE OF AUTHORIZATION (NOA) FROM THE COUNTY OF HAWAII, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, SOLID WASTE DIVISION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY ADDITIONAL PERMITS REQUIRED BY APPROPRIATE GOVERNMENT AGENCIES.

PORTABLE TOILETS:

- THE CONTRACTOR SHALL PROVIDE PORTABLE TOILETS FOR THE DURATION OF THE RESTROOM CLOSURE FOR RENOVATIONS.
- THE CONTRACTOR SHALL PROVIDE TWO (2) ADA ACCESSIBLE AND THREE (3) STANDARD PORTABLE TOILETS FOR EACH COMFORT STATION CLOSURE FOR THE RENOVATION. TOILETS SHALL BE SERVICED A MINIMUM OF FOUR (4) TIMES (TUESDAY, THURSDAY, SATURDAY, AND SUNDAY) A WEEK AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE PUBLIC HEALTH REGULATIONS OF THE DEPARTMENT OF HEALTH. LOCATION OF THE PORTABLE TOILETS SHALL BE DETERMINED BY THE ENGINEER.
- COMFORT STATIONS SHALL NOT BE CLOSED UNTIL PORTABLE TOILETS ARE INSTALLED ONSITE.

UNEXPLODED ORDINANCE (UXO):

- THE HAPUNA AREA WAS ONCE USED AS A TRAINING AREA FOR AMERICAN MILITARY FORCES. SHOULD ANY UNANTICIPATED UNEXPLODED ORDINANCE BE UNCOVERED, ALL WORK SHALL CEASE IN THE IMMEDIATE AREA AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO WORK SHALL RESUME UNTIL CLEARANCE HAS BEEN OBTAINED FROM THE ENGINEER.

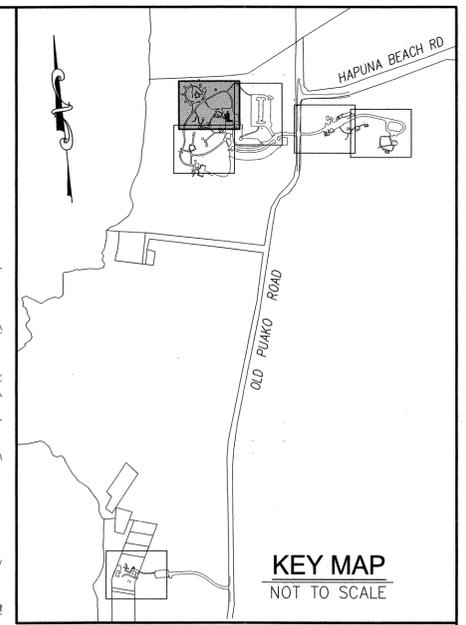
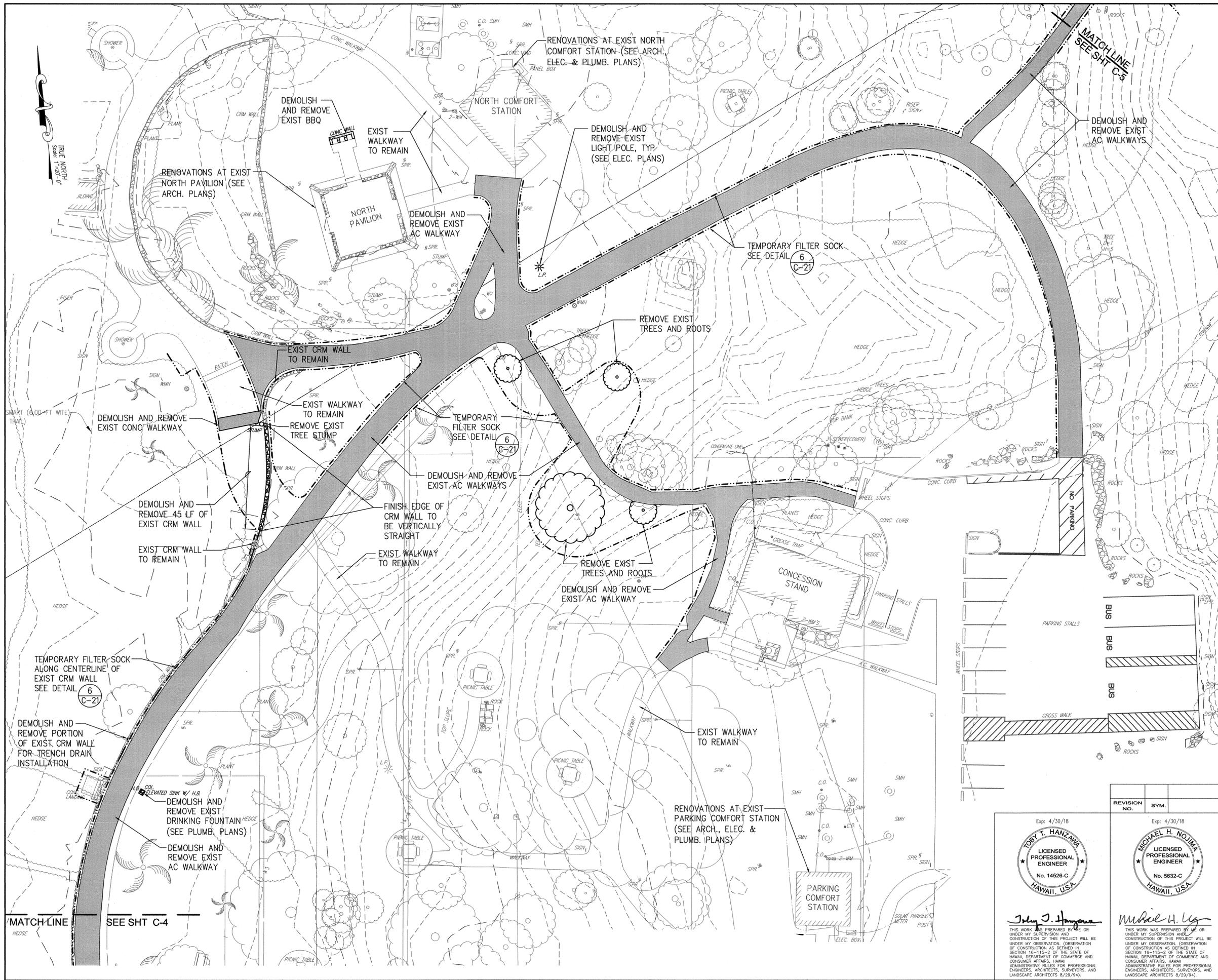
EROSION CONTROL NOTES AND BEST MANAGEMENT PRACTICES (BMPs):

- CONTRACTOR SHALL CONFORM TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES ESTABLISHED BY THE DEPARTMENT OF PUBLIC WORKS IN CONFORMITY WITH CHAPTER 180C, HAWAII REVISED STATUTES.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, INCLUDING DEMOLITION. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
- ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- CONSTRUCT FACILITIES TO RETAIN ON-SITE WASTEWATER SUCH AS WATER FOR DUST CONTROL AND CONSTRUCTION EXIT WASH WATER AND PERCOLATE INTO THE SOIL. WASH WATER AFTER CLEANING CONCRETE TRUCKS SHALL BE CONTAINED IN A SEPARATE WASH AREA LINED WITH AN IMPERMEABLE LAYER AND NOT ALLOWED TO OVERFLOW.
- PROVIDE CONSTRUCTION ENTRANCE FOR EACH INGRESS AND EGRESS.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN TWENTY (20) CALENDAR DAYS PRIOR TO SITE DISTURBANCE.
- TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN THIRTY (30) CALENDAR DAYS, IF NEEDED OR REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.
- PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION SHALL BE APPLIED AS SOON AS PRACTICAL AFTER FINAL GRADING AND GRUBBING.
- STORM WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING APPROPRIATE CONTROL MEASURES AS PRACTICAL.
- ALL BMPs SHALL BE CONSTRUCTED AND OPERATIONAL PRIOR TO GRUBBING AND GRADING PHASE.
- EROSION CONTROL MEASURES SHOWN HEREON REPRESENT THE MINIMUM REQUIREMENTS. CONTRACTOR SHALL ADJUST EROSION CONTROL MEASURES TO PROVIDE BEST MANAGEMENT PRACTICES TO ADDRESS REQUIREMENTS OF HAR 11-54 AS NEEDED AND AS CONSTRUCTION PHASING AND SEQUENCING REQUIRES.
- THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY BMP MEASURES UNTIL THE ENTIRE AREA IS COMPLETELY STABILIZED. ALL BMP MEASURES SHALL BE REMOVED IMMEDIATELY, AFTER THE AREA IS COMPLETELY STABILIZED.
- SEDIMENT TRAPS SHALL BE INSTALLED AT ALL DRAIN INLETS.
- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS GENERATED FROM HIS CONSTRUCTION PRACTICES.
- CONTRACTOR TO PERIODICALLY INSPECT SEDIMENT TRAPS AND PERIMETER RUNOFF CONTROL ESPECIALLY DURING HEAVY RAINFALL. CONTRACTOR SHALL ALSO ENSURE DRAINAGE THROUGH THE SEDIMENT TRAPS ARE MAINTAINED.
- GOOD HOUSEKEEPING SHALL BE UTILIZED TO ENSURE PROTECTION OF ROADWAYS FROM MUD, DIRT, AND DEBRIS.
- ANY DIRT OR GRASSED AREA DISTURBED SHALL BE RESTORED. THE GRASS SHALL BE FULLY ESTABLISHED AT COMPLETION OF PROJECT.

LEGEND:

A.C./AC	ASPHALT CONCRETE	O/H	OVERHEAD
ARV	AIR RELEASE VALVE	PAV.T.	PAVEMENT
BC	BOTTOM CURB	PC	POINT OF CURVE
BOT.	BOTTOM	PT	POINT OF TANGENT
BW	BOTTOM WALL	R	RADIUS
Ch	CHORD	S	SEWER OR SPREAD
C.L.	CHAIN LINK	SF	SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	SMH	SEWER MANHOLE
C.O.	CLEAN OUT	SPR.	SPRINKLER
CONC./CC	CONCRETE	STA.	STATION
CRM	CONCRETE RUBBLE MASONRY	T	TANGENT
D	DIAMETER OR DRAIN	TC	TOP CURB
D.I.	DRAIN INLET	TEL.	TELEPHONE
E/ELEC.	ELECTRIC	TRANS.	TRANSFORMER
ELEV./EL.	ELEVATION	TS	TOP STEM
EXIST	EXISTING	TV	TOP VALVE
F.H.	FIRE HYDRANT	TW	TOP WALL
GND./G	GROUND	TYP	TYPICAL
H	HEIGHT	UTIL.	UTILITY
H.B.	HOSE BIB	U.P.	UTILITY POLE
ICV	IRRIGATION CONTROL VALVE	W	WATER
INV.	INVERT	W/	WITH
Lc	LENGTH OF CURVE	WM	WATER METER
L.P.	LAMP POLE	WMH	WATER MANHOLE
MAX	MAXIMUM	WV	WATER VALVE
MH	MANHOLE		

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HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS					
GENERAL NOTES					
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CHIEF ENGINEER					



NOTE:
ROOTS OF TREES SHALL BE REMOVED
A MINIMUM OF 2' BELOW GROUND.

- LEGEND**
- TEMPORARY FILTER SOCK
 - █ EXIST AC OR CONC WALKWAY TO BE DEMOLISHED



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS DEMOLITION PLAN MAKAI NORTH	
DESIGNED: TH	SUBMITTED: <input checked="" type="checkbox"/>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-3
CHIEF ENGINEER	MAY - 3 2016 DATE

Exp: 4/30/18

TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14526-C
 HAWAII, USA

[Signature]

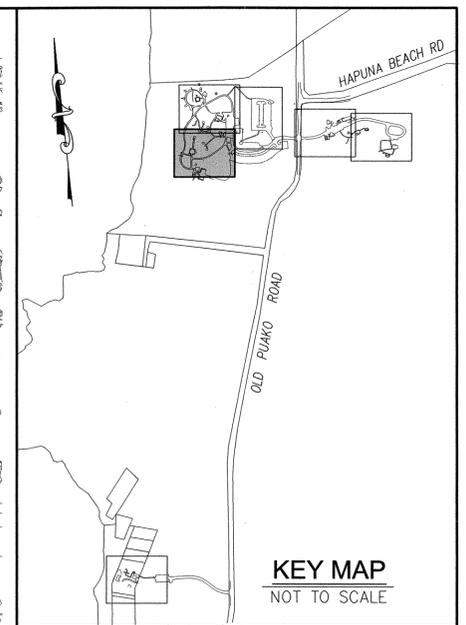
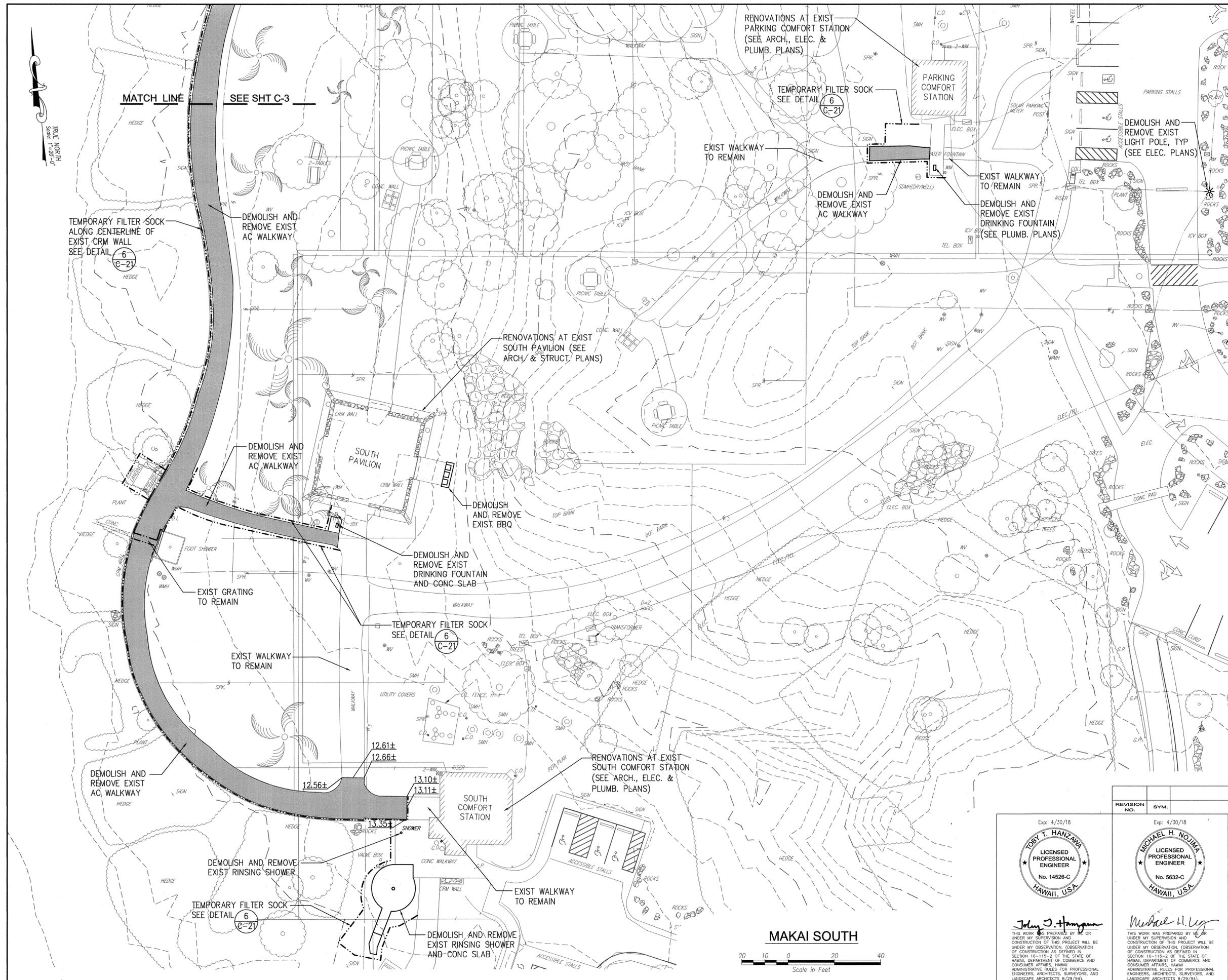
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

Exp: 4/30/18

MICHAEL H. NOJIMA
 LICENSED PROFESSIONAL ENGINEER
 No. 5632-C
 HAWAII, USA

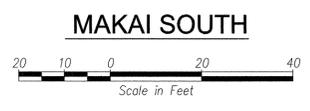
[Signature]

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).



LEGEND

- TEMPORARY FILTER SOCK
- █ EXIST AC OR CONC WALKWAY TO BE DEMOLISHED



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
DEMOLITION PLAN MAKAI SOUTH	
DESIGNED: TH	SUBMITTED: <input checked="" type="checkbox"/> a
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>Cyly</i>	DRAWING NO. C-4
CHIEF ENGINEER	MAY - 3 2016 DATE

Exp: 4/30/18

Toby T. Hanzawa

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 SECTION 115-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94.

Exp: 4/30/18

Michael H. Nojima

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 SECTION 115-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94.

MAKAI SOUTH



MATCH LINE SEE SHT C-3

TEMPORARY FILTER SOCK ALONG CENTERLINE OF EXIST CRM WALL SEE DETAIL 6 C-21

DEMOLISH AND REMOVE EXIST AC WALKWAY

RENOVATIONS AT EXIST PARKING COMFORT STATION (SEE ARCH., ELEC. & PLUMB. PLANS)

TEMPORARY FILTER SOCK SEE DETAIL 6 C-21

PARKING COMFORT STATION

DEMOLISH AND REMOVE EXIST LIGHT POLE, TYP (SEE ELEC. PLANS)

EXIST WALKWAY TO REMAIN

DEMOLISH AND REMOVE EXIST AC WALKWAY

EXIST WALKWAY TO REMAIN
DEMOLISH AND REMOVE EXIST DRINKING FOUNTAIN (SEE PLUMB. PLANS)

RENOVATIONS AT EXIST SOUTH PAVILION (SEE ARCH. & STRUCT. PLANS)

DEMOLISH AND REMOVE EXIST AC WALKWAY

SOUTH PAVILION

DEMOLISH AND REMOVE EXIST BBQ

DEMOLISH AND REMOVE EXIST DRINKING FOUNTAIN AND CONC SLAB

EXIST GRATING TO REMAIN

TEMPORARY FILTER SOCK SEE DETAIL 6 C-21

EXIST WALKWAY TO REMAIN

RENOVATIONS AT EXIST SOUTH COMFORT STATION (SEE ARCH., ELEC. & PLUMB. PLANS)

SOUTH COMFORT STATION

DEMOLISH AND REMOVE EXIST AC WALKWAY

DEMOLISH AND REMOVE EXIST RINSING SHOWER

TEMPORARY FILTER SOCK SEE DETAIL 6 C-21

DEMOLISH AND REMOVE EXIST RINSING SHOWER AND CONC SLAB

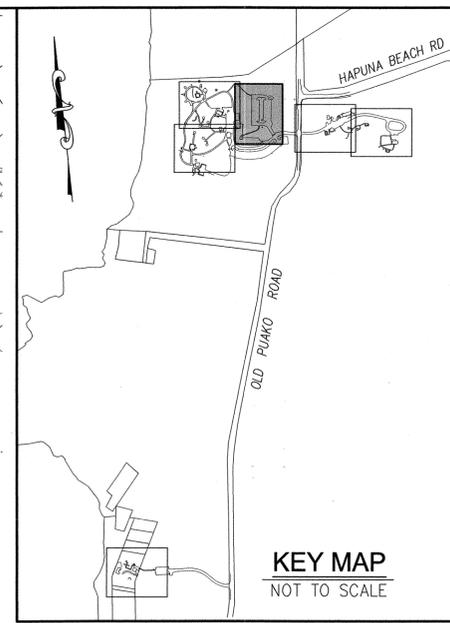
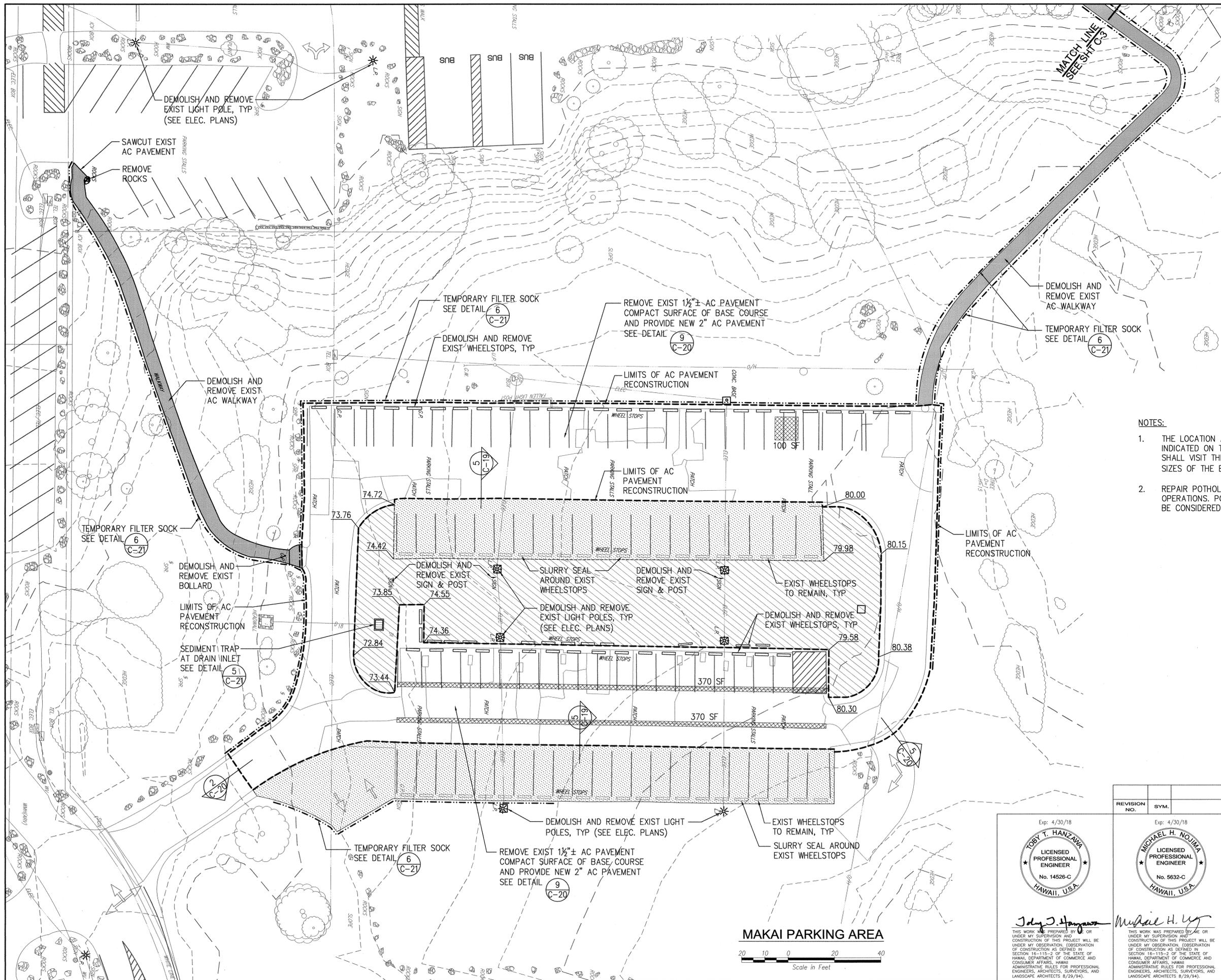
EXIST WALKWAY TO REMAIN

12.61±
12.66±

12.56±

13.10±
13.11±

13.35±



- NOTES:**
1. THE LOCATION AND SIZE OF POTHoles/DAMAGED PAVEMENT INDICATED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN THE EXACT LOCATIONS AND SIZES OF THE EXISTING POTHoles/DAMAGED PAVEMENT.
 2. REPAIR POTHoles/DAMAGED PAVEMENT AREAS PRIOR TO PAVING OPERATIONS. POTHOLE AND DAMAGED PAVEMENT REPAIRS SHALL BE CONSIDERED INCIDENTAL WORK.

- LEGEND**
- LIMITS OF AC PAVEMENT RECONSTRUCTION
 - 100 SF [Hatched Box] POTHOLE REPAIR AREA AND APPROXIMATE SQUARE FOOTAGE SEE DETAIL (6) C-20
 - [Dotted Box] 0.25" SLURRY SEAL SEE DETAIL (3) C-20
 - [Diagonal Lines Box] NEW AC PAVEMENT SEE DETAIL (8) C-20
 - [Solid Grey Box] EXIST AC OR CONC WALKWAY TO BE DEMOLISHED
 - - - - - TEMPORARY FILTER SOCK



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
DEMOLITION & RECONSTRUCTION PLAN MAKAI PARKING AREA	
DESIGNED: TH	SUBMITTED: ✓
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED:	DRAWING NO.
<i>[Signature]</i> CHIEF ENGINEER	MAY 3 2016 DATE

Exp: 4/30/18

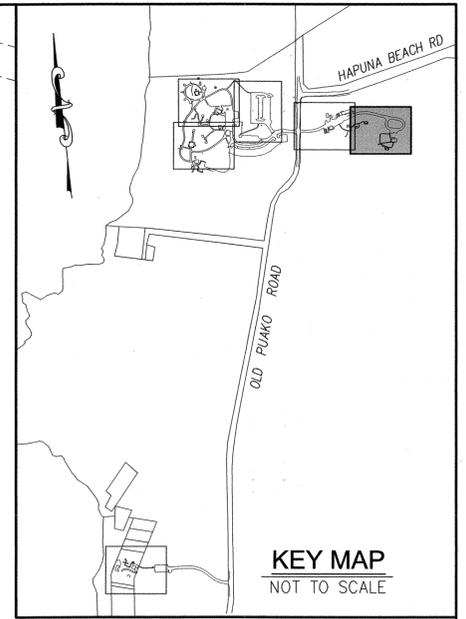
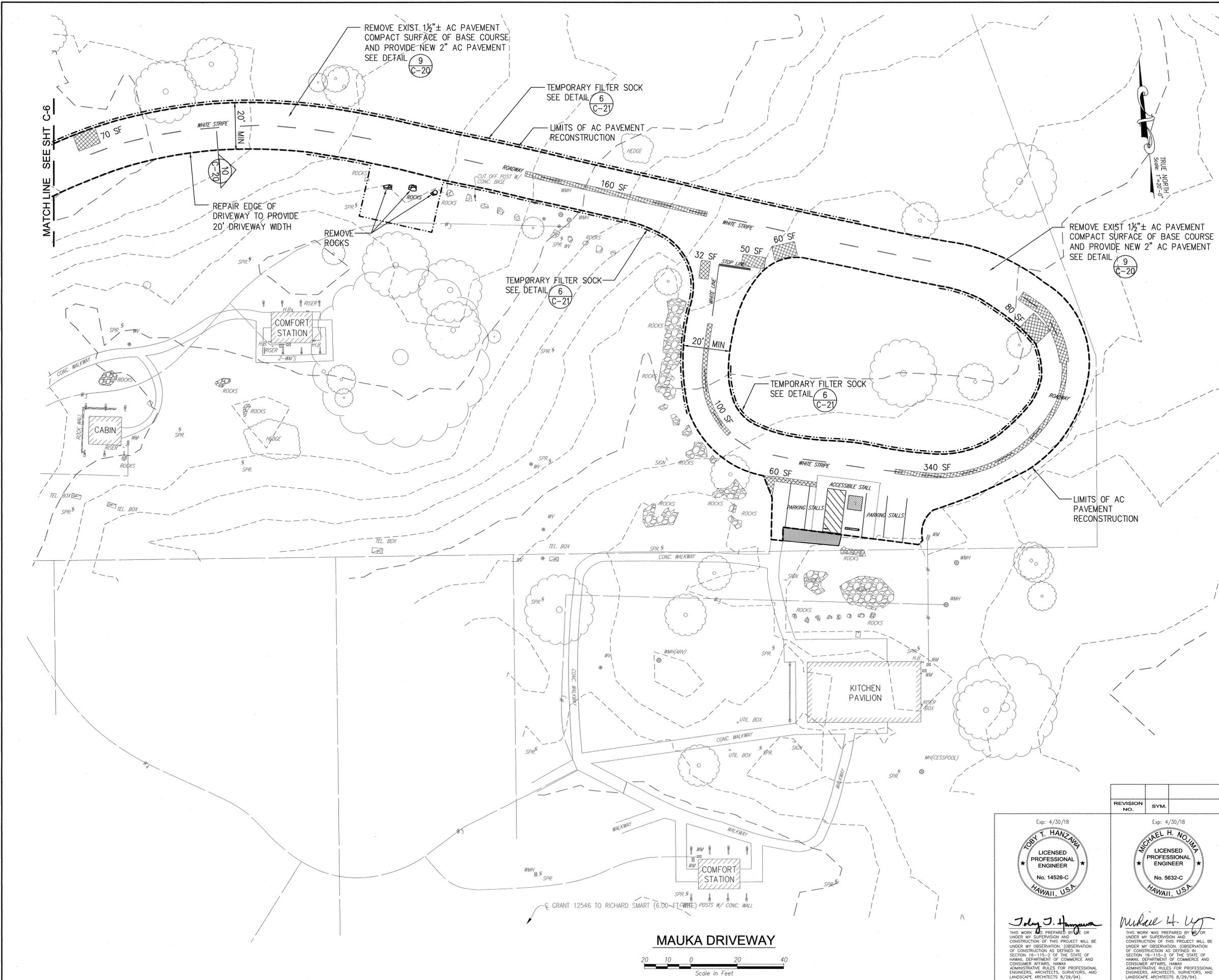
TOBY T. HANZAWA
LICENSED PROFESSIONAL ENGINEER
No. 14526-C
HAWAII, U.S.A.

[Signature]
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

Exp: 4/30/18

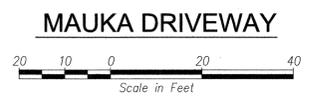
MICHAEL H. NOJIMA
LICENSED PROFESSIONAL ENGINEER
No. 5632-C
HAWAII, U.S.A.

[Signature]
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).



- NOTES:**
1. THE LOCATION AND SIZE OF POTHOLE/DAMAGED PAVEMENT INDICATED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN THE EXACT LOCATIONS AND SIZES OF THE EXISTING POTHOLE/DAMAGED PAVEMENT.
 2. REPAIR POTHOLE/DAMAGED PAVEMENT AREAS PRIOR TO PAVING OPERATIONS. POTHOLE AND DAMAGED PAVEMENT REPAIRS SHALL BE CONSIDERED INCIDENTAL WORK.

- LEGEND**
- LIMITS OF AC PAVEMENT RECONSTRUCTION
 - 100 SF [Hatched Box] POTHOLE REPAIR AREA AND APPROXIMATE SQUARE FOOTAGE SEE DETAIL (6) C-20
 - - - - - TEMPORARY FILTER SOCK
 - [Solid Grey Box] EXIST AC TO BE DEMOLISHED



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

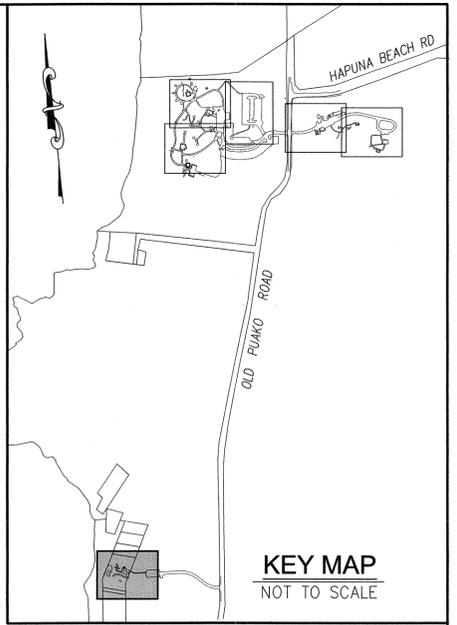
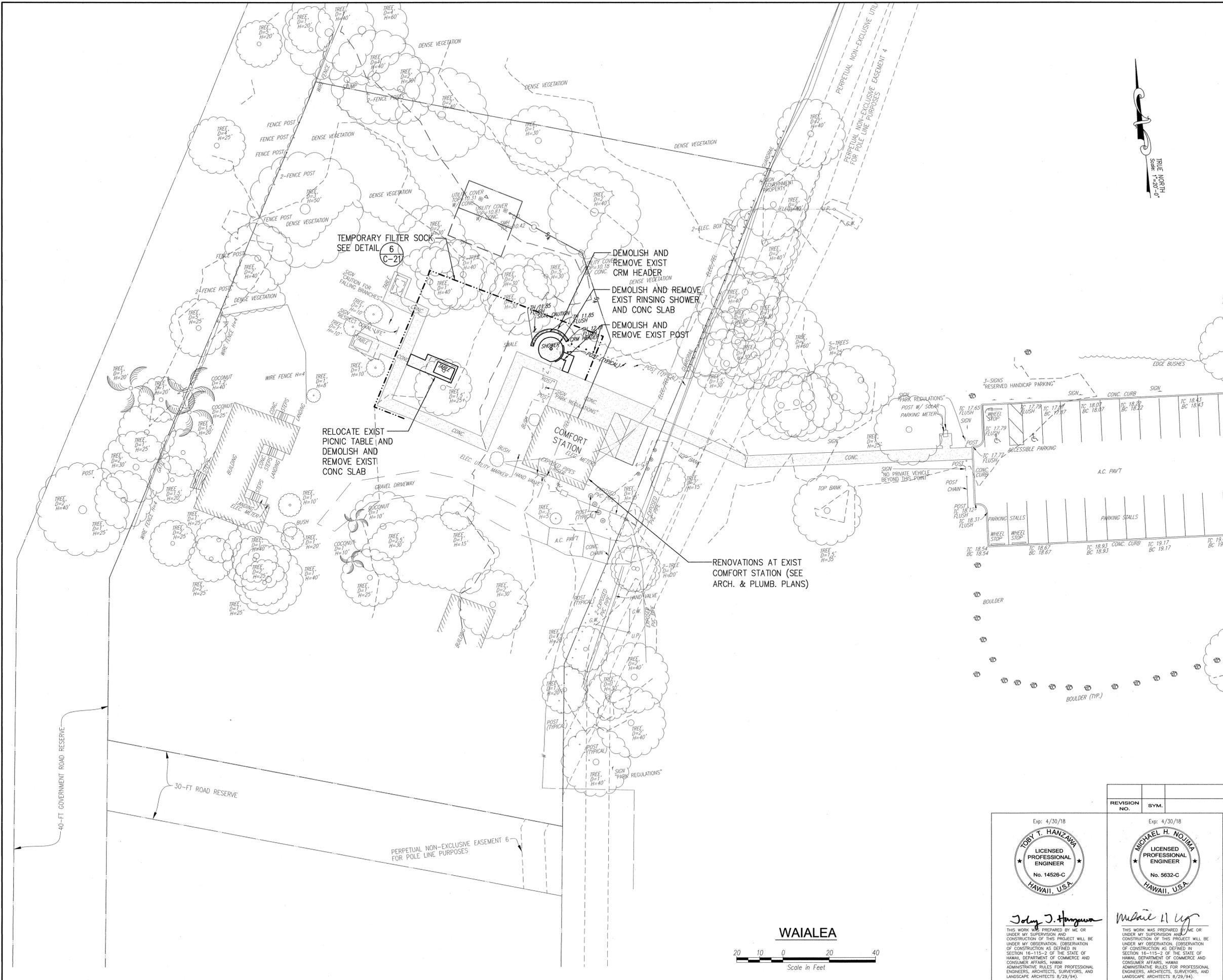
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS DEMOLITION & RECONSTRUCTION PLAN - 2 MAUKA DRIVEWAY	
DESIGNED: TH	SUBMITTED: [Signature]
DRAWN: JG	DATE: APRIL 2016
CHECKED: JG	SCALE: AS SHOWN
APPROVED: [Signature]	DRAWING NO. C-7
CHIEF ENGINEER	DATE: MAY - 3 2016

Exp: 4/30/18
TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14528-C
 HAWAII, U.S.A.

July J. Hanzawa
 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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

Exp: 4/30/18
MICHAEL H. NOJIMA
 LICENSED PROFESSIONAL ENGINEER
 No. 5832-C
 HAWAII, U.S.A.

Michael H. Nojima
 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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).



LEGEND
 - - - - - TEMPORARY FILTER SOCK

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS DEMOLITION PLAN WAIALEA					
DESIGNED: TH	SUBMITTED: <input checked="" type="checkbox"/>				
DRAWN: JG	DATE: APRIL 2016				
CHECKED: MN	SCALE: AS SHOWN				
APPROVED: <i>[Signature]</i>	DATE: MAY - 3 2016		DRAWING NO. C-8		
CHIEF ENGINEER					

Exp: 4/30/18

TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14526-C
 HAWAII, USA

John J. Hanawa

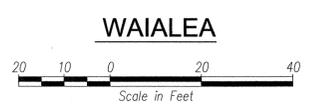
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

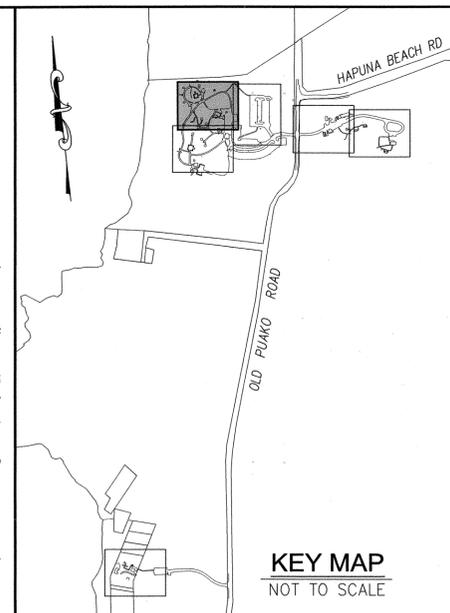
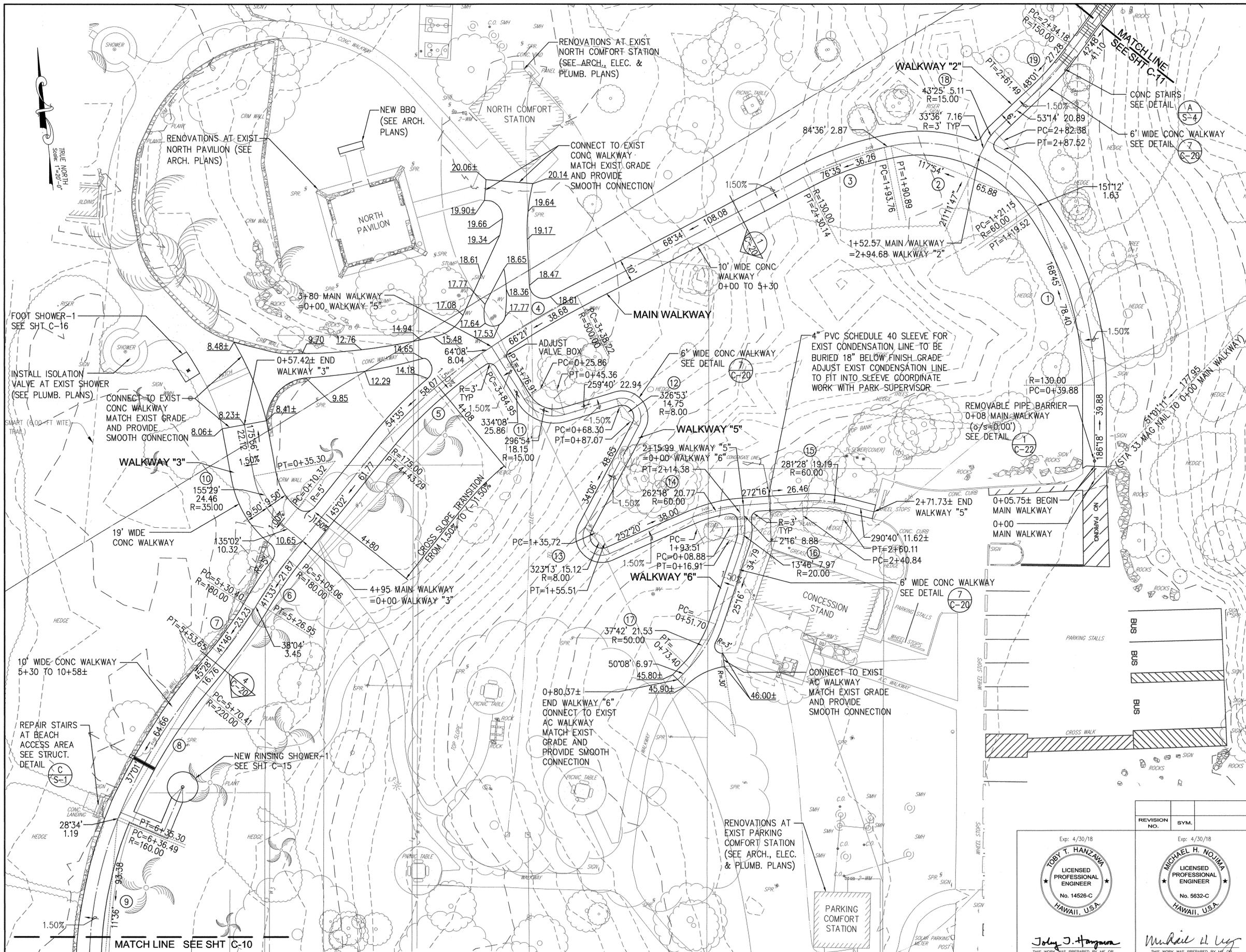
Exp: 4/30/18

MICHAEL H. NOJIMA
 LICENSED PROFESSIONAL ENGINEER
 No. 5632-C
 HAWAII, USA

Michael H. Nojima

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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).





WALKWAY CURVE DATA

	1	2	3	4
Δ	35'06"	66'36"	16'02"	4'26"
Δ/2	17'33"	33'18"	8'01"	2'13"
R	130.00	60.00	130.00	500.00
T	41.11	39.41	18.31	19.35
Ch	78.40	65.88	36.26	38.68
Lc	79.64	69.74	36.38	38.69

	5	6	7	8
Δ	19'06"	6'58"	7'24"	16'54"
Δ/2	9'33"	3'29"	3'42"	8'27"
R	175.00	180.00	180.00	220.00
T	29.44	10.96	11.64	32.68
Ch	58.07	21.87	23.23	64.66
Lc	58.34	21.89	23.25	64.89

	9	10	11	12
Δ	33'56"	40'54"	74'28"	134'26"
Δ/2	16'58"	20'27"	37'14"	67'13"
R	160.00	35.00	15.00	8.00
T	48.82	13.05	11.40	19.05
Ch	93.38	24.46	18.15	14.75
Lc	94.76	24.98	19.50	18.77

	13	14	15	16
Δ	141'46"	19'56"	18'24"	23'00"
Δ/2	70'53"	9'58"	9'12"	11'30"
R	8.00	60.00	60.00	20.00
T	23.08	10.54	9.72	4.07
Ch	15.12	20.77	19.19	7.97
Lc	19.79	20.87	19.27	8.03

	17	18	19
Δ	24'52"	19'38"	10'26"
Δ/2	12'26"	9'49"	5'13"
R	50.00	15.00	150.00
T	11.02	2.60	13.70
Ch	21.53	5.11	27.28
Lc	21.70	5.14	27.31

NOTES:

- FOR WALKWAY DETAILS SEE SHT C-20 AND STRUCTURAL PLANS.
- THE VARIOUS WORK TASKS REQUIRING THE REPLACEMENT OF EXISTING FACILITIES SHALL REQUIRE THE RECONSTRUCTION OF CONCRETE SLABS WHERE APPLICABLE. SEE STRUCTURAL PLANS FOR DETAILS.

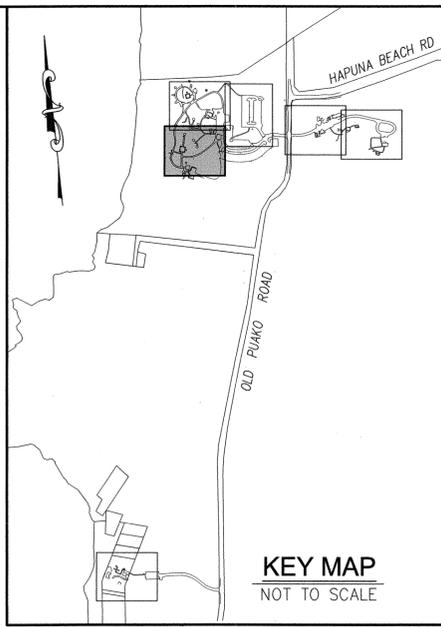
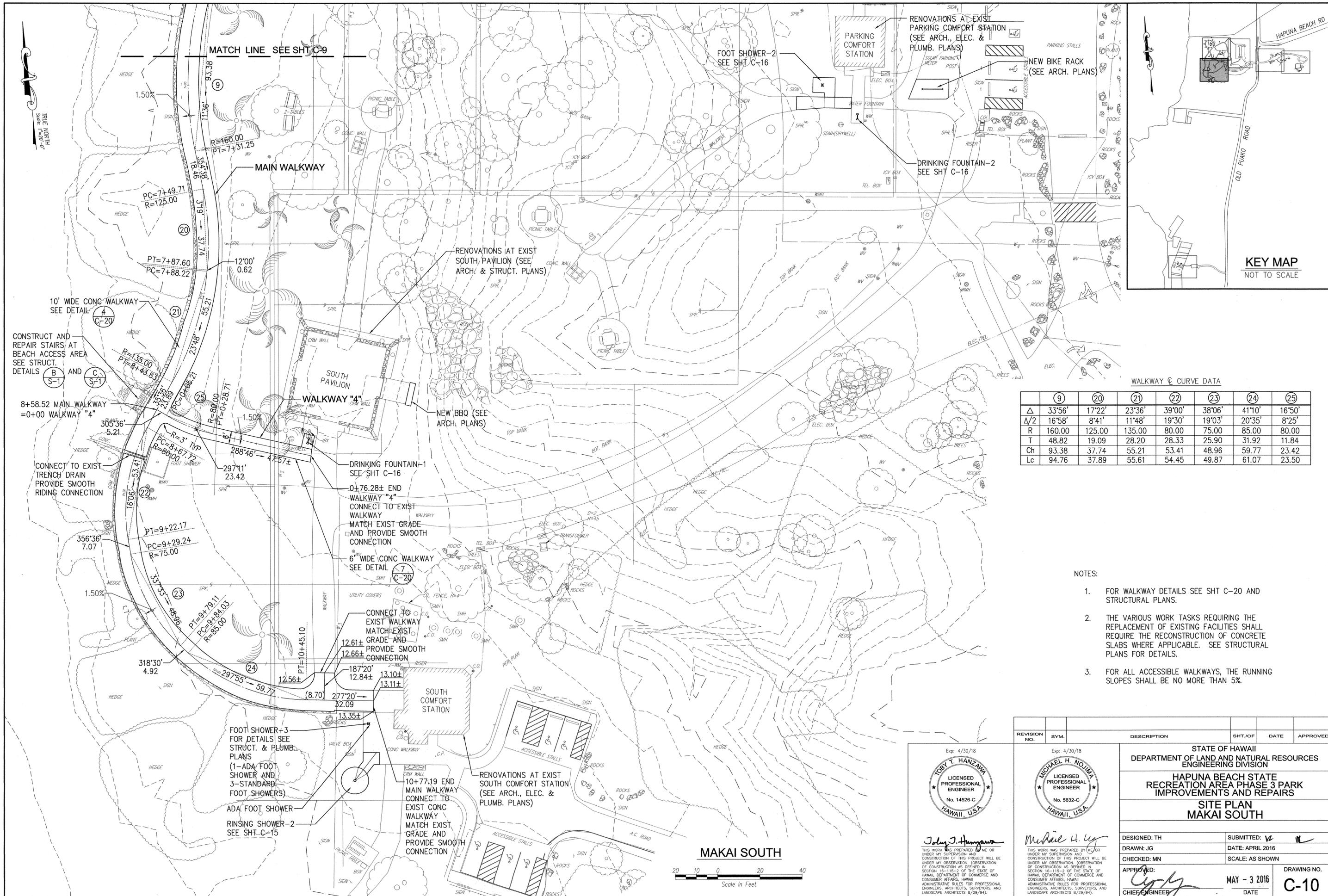


- WALKWAY "3" AND THE PORTION OF MAIN WALKWAY FROM 4+68 TO END ARE ACCESSIBLE WALKWAYS.
- FOR ALL ACCESSIBLE WALKWAYS, THE RUNNING SLOPES SHALL BE NO MORE THAN 5%.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

<p>Exp: 4/30/18</p> <p>TOBY T. HANZAWA LICENSED PROFESSIONAL ENGINEER No. 14526-C HAWAII, U.S.A.</p> <p><i>Joly J. Hanzawa</i></p> <p>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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).</p>	<p>Exp: 4/30/18</p> <p>MICHAEL H. NOJIMA LICENSED PROFESSIONAL ENGINEER No. 5632-C HAWAII, U.S.A.</p> <p><i>Michael H. Nojima</i></p> <p>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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).</p>
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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
SITE PLAN MAKAI NORTH	
DESIGNED: TH	SUBMITTED: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-9
CHIEF ENGINEER	MAY - 3 2016 DATE



WALKWAY & CURVE DATA

	⑨	⑳	㉑	㉒	㉓	㉔	㉕
Δ	33'56"	17'22"	23'36"	39'00"	38'06"	41'10"	16'50"
Δ/2	16'58"	8'41"	11'48"	19'30"	19'03"	20'35"	8'25"
R	160.00	125.00	135.00	80.00	75.00	85.00	80.00
T	48.82	19.09	28.20	28.33	25.90	31.92	11.84
Ch	93.38	37.74	55.21	53.41	48.96	59.77	23.42
Lc	94.76	37.89	55.61	54.45	49.87	61.07	23.50

- NOTES:
- FOR WALKWAY DETAILS SEE SHT C-20 AND STRUCTURAL PLANS.
 - THE VARIOUS WORK TASKS REQUIRING THE REPLACEMENT OF EXISTING FACILITIES SHALL REQUIRE THE RECONSTRUCTION OF CONCRETE SLABS WHERE APPLICABLE. SEE STRUCTURAL PLANS FOR DETAILS.
 - FOR ALL ACCESSIBLE WALKWAYS, THE RUNNING SLOPES SHALL BE NO MORE THAN 5%.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAPUNA BEACH STATE
RECREATION AREA PHASE 3 PARK
IMPROVEMENTS AND REPAIRS

SITE PLAN
MAKAI SOUTH

DESIGNED: TH SUBMITTED: *[Signature]*

DRAWN: JG DATE: APRIL 2016

CHECKED: MN SCALE: AS SHOWN

APPROVED: *[Signature]* DRAWING NO. C-10

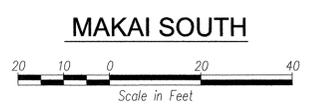
DATE: MAY - 3 2016

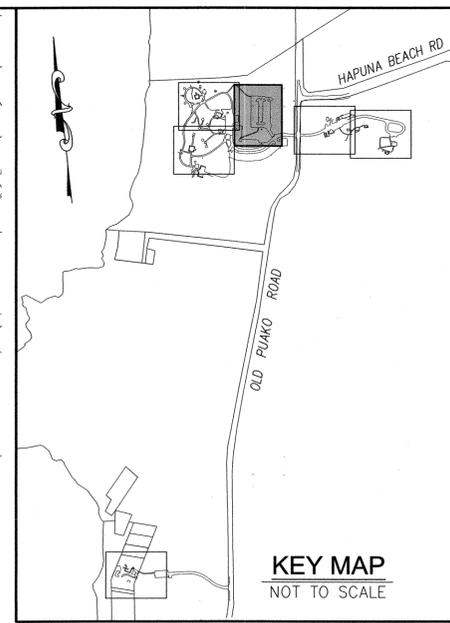
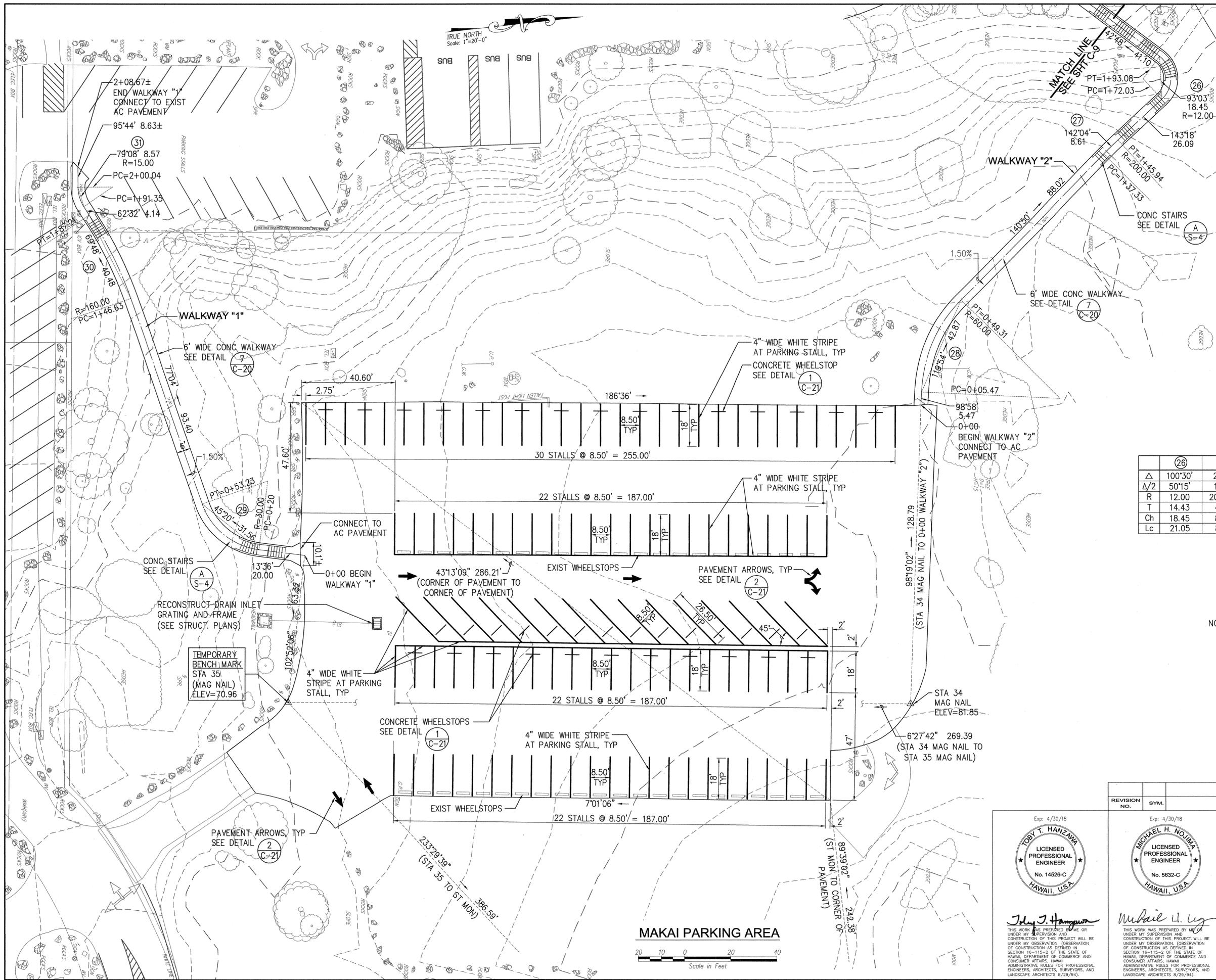
Exp: 4/30/18
TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14526-C
 HAWAII, USA

John J. Hanger
 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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

Exp: 4/30/18
MICHAEL H. NOJIMA
 LICENSED PROFESSIONAL ENGINEER
 No. 5632-C
 HAWAII, USA

Michael H. Uy
 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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).





WALKWAY & CURVE DATA

	(26)	(27)	(28)	(29)	(30)	(31)
Δ	100'30"	2'28"	41'52"	63'28"	14'32"	33'12"
Δ/2	50'15"	1'14"	20'56"	31'44"	7'16"	16'36"
R	12.00	200.00	60.00	30.00	160.00	15.00
T	14.43	4.31	22.95	18.55	20.40	4.47
Ch	18.45	8.61	42.87	31.56	40.48	8.57
Lc	21.05	8.61	43.84	33.23	40.58	8.69

- NOTES:
- FOR WALKWAY DETAILS SEE SHT C-20 AND STRUCTURAL PLANS.
 - THE VARIOUS WORK TASKS REQUIRING THE REPLACEMENT OF EXISTING FACILITIES SHALL REQUIRE THE RECONSTRUCTION OF CONCRETE SLABS WHERE APPLICABLE. SEE STRUCTURAL PLANS FOR DETAILS.
 - ALL STRIPING SHALL BE THERMOPLASTIC.
 - FOR ALL ACCESSIBLE WALKWAYS, THE RUNNING SLOPES SHALL BE NO MORE THAN 5%.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

Exp: 4/30/18

Toby T. Hanzawa

LICENSSED PROFESSIONAL ENGINEER
No. 14528-C
HAWAII, U.S.A.

Exp: 4/30/18

Michael H. Nojima

LICENSSED PROFESSIONAL ENGINEER
No. 5632-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

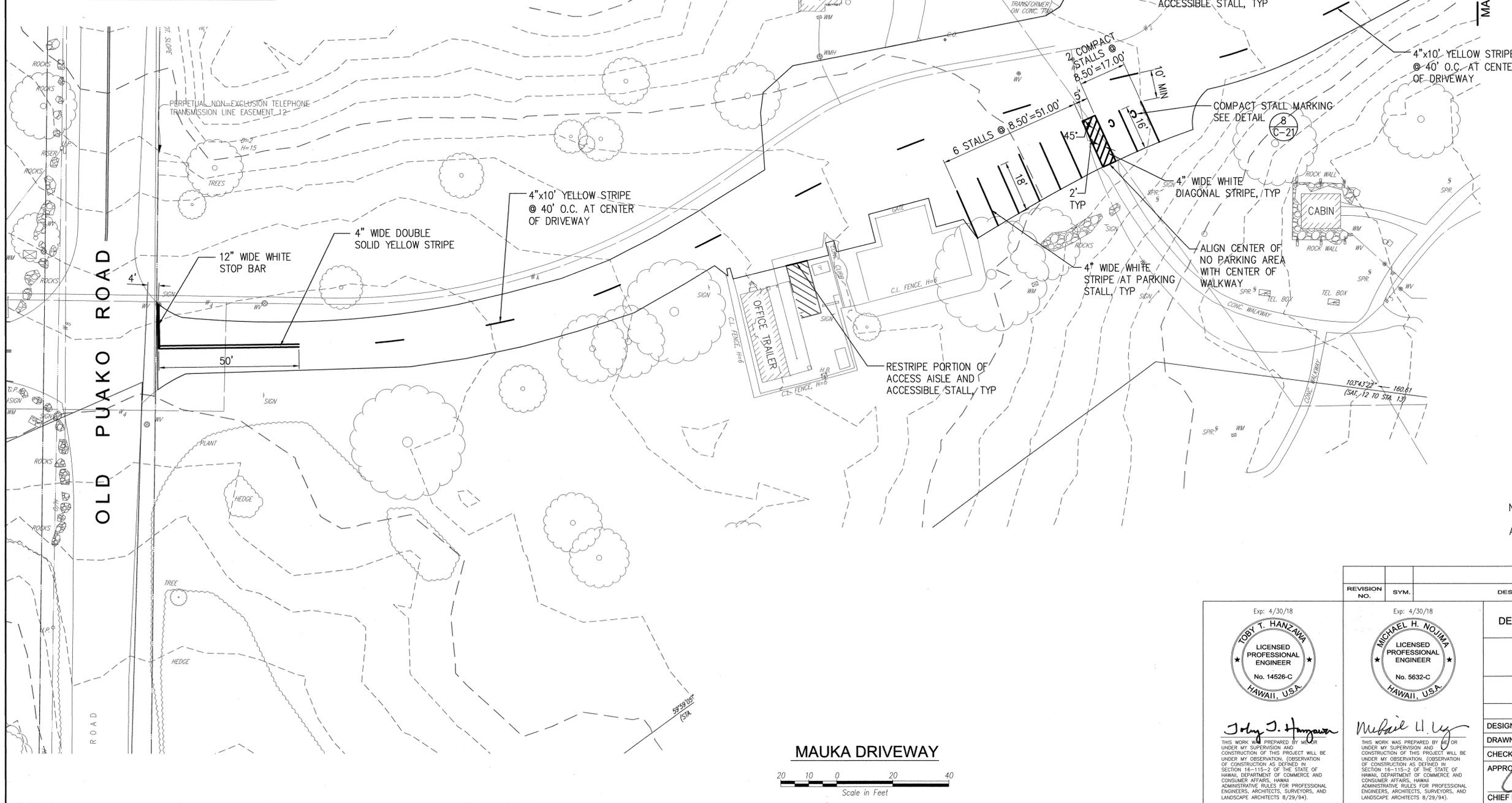
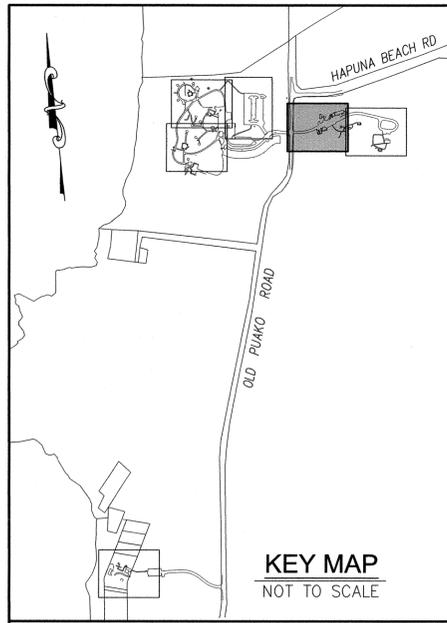
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS

**SITE PLAN
MAKAI PARKING AREA**

DESIGNED: TH	SUBMITTED: <i>[Signature]</i>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-11
CHIEF ENGINEER	MAY - 3 2016 DATE

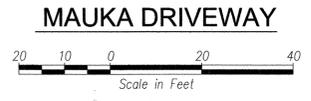
MAKAI PARKING AREA

Scale in Feet



MATCH LINE SEE SHT C-13

NOTE:
ALL STRIPING SHALL BE THERMOPLASTIC.



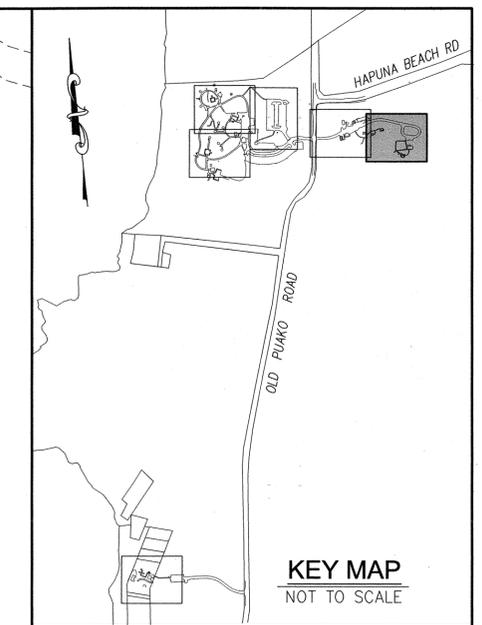
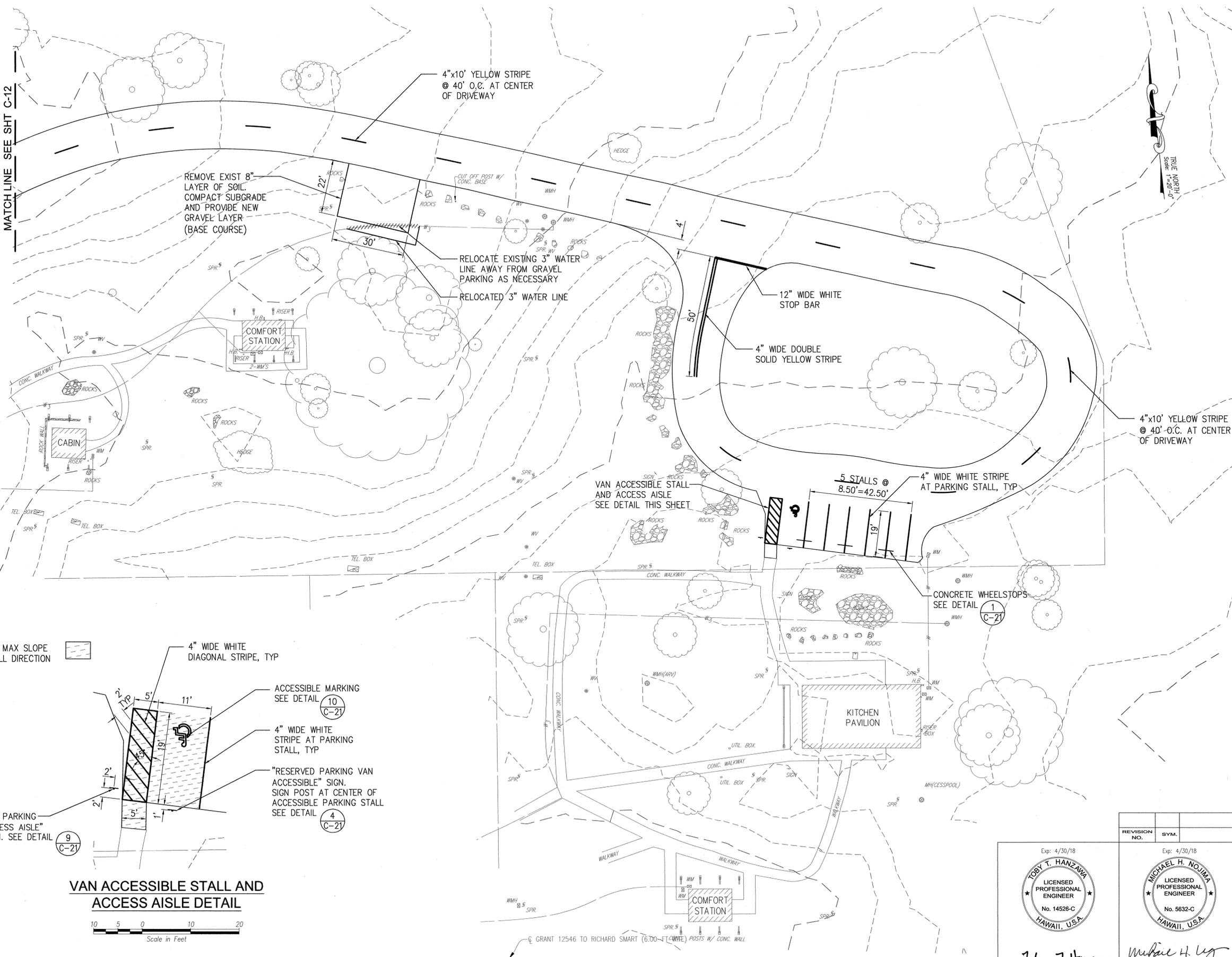
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
SITE PLAN - 1 MAUKA DRIVEWAY	
DESIGNED: TH	SUBMITTED: <i>[Signature]</i>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-12
CHIEF ENGINEER	DATE: MAY - 3 2016

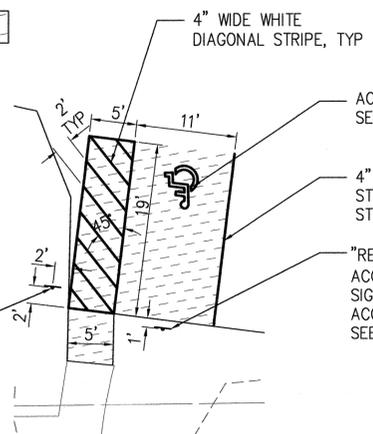
Exp: 4/30/18
TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14526-C
 HAWAII, U.S.A.
John J. Hansen
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 18-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

Exp: 4/30/18
MICHAEL H. NOLIMA
 LICENSED PROFESSIONAL ENGINEER
 No. 5632-C
 HAWAII, U.S.A.
Michael H. Nolim
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 SECTION 18-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

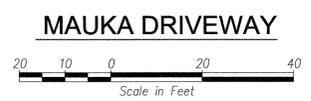
MATCHLINE SEE SHT C-12



1.5% MAX SLOPE IN ALL DIRECTION



VAN ACCESSIBLE STALL AND ACCESS AISLE DETAIL



NOTE:
ALL STRIPING SHALL BE THERMOPLASTIC.

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
SITE PLAN - 2 MAUKA DRIVEWAY	
DESIGNED: TH	SUBMITTED: <i>[Signature]</i>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-13
CHIEF ENGINEER	MAY - 3 2016 DATE

Exp: 4/30/18

TOBY T. HANZAWA
LICENSED PROFESSIONAL ENGINEER
No. 14526-C
HAWAII, U.S.A.

John J. Hangan

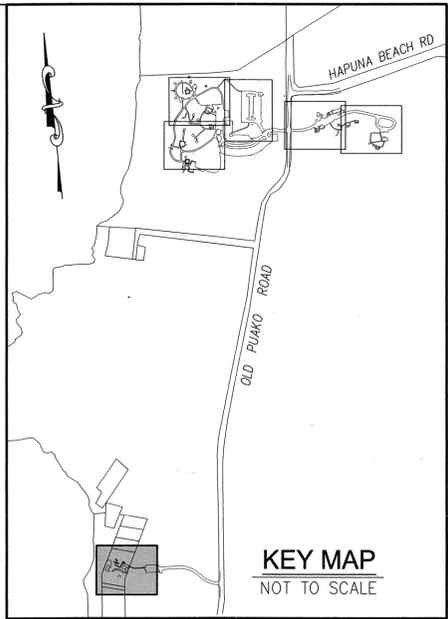
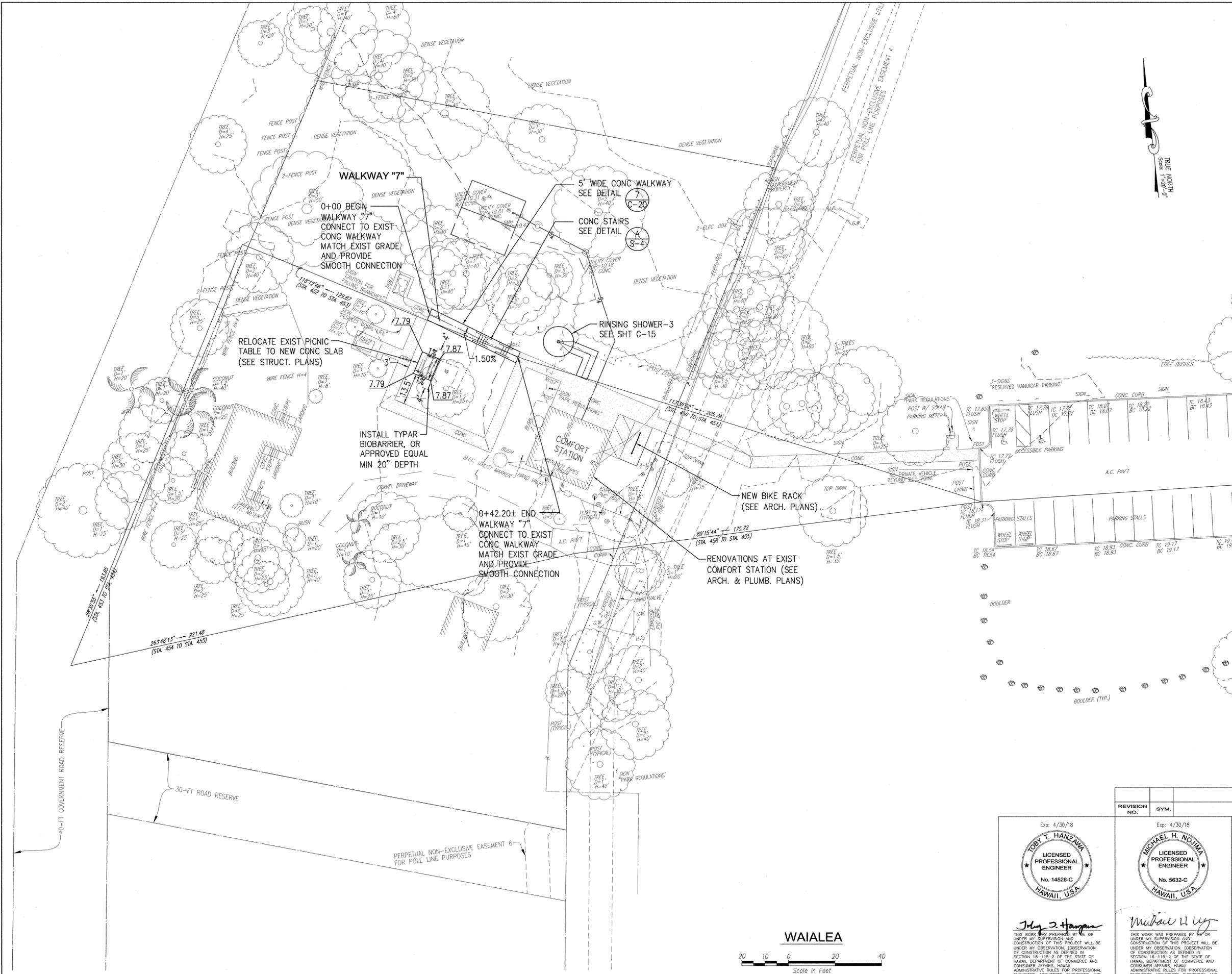
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 115-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94.

Exp: 4/30/18

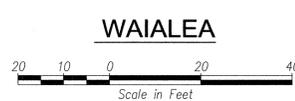
MICHAEL H. NOJIMA
LICENSED PROFESSIONAL ENGINEER
No. 5832-C
HAWAII, U.S.A.

Michael H. Nojima

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 SECTION 115-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94.



- LEGEND:**
- ROOT BARRIER
- NOTES:**
- FOR WALKWAY DETAILS SEE SHT C-20 AND STRUCTURAL PLANS.
 - THE VARIOUS WORK TASKS REQUIRING THE REPLACEMENT OF EXISTING FACILITIES SHALL REQUIRE THE RECONSTRUCTION OF CONCRETE SLABS WHERE APPLICABLE. SEE STRUCTURAL PLANS FOR DETAILS.



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
SITE PLAN WAIALEA	
DESIGNED: TH	SUBMITTED: <i>V</i>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-14
CHIEF ENGINEER	DATE: MAY - 3 2016

Exp: 4/30/18

TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14526-C
 HAWAII, U.S.A.

July 2 Hanagan
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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

Exp: 4/30/18

MICHAEL H. NOJIMA
 LICENSED PROFESSIONAL ENGINEER
 No. 5632-C
 HAWAII, U.S.A.

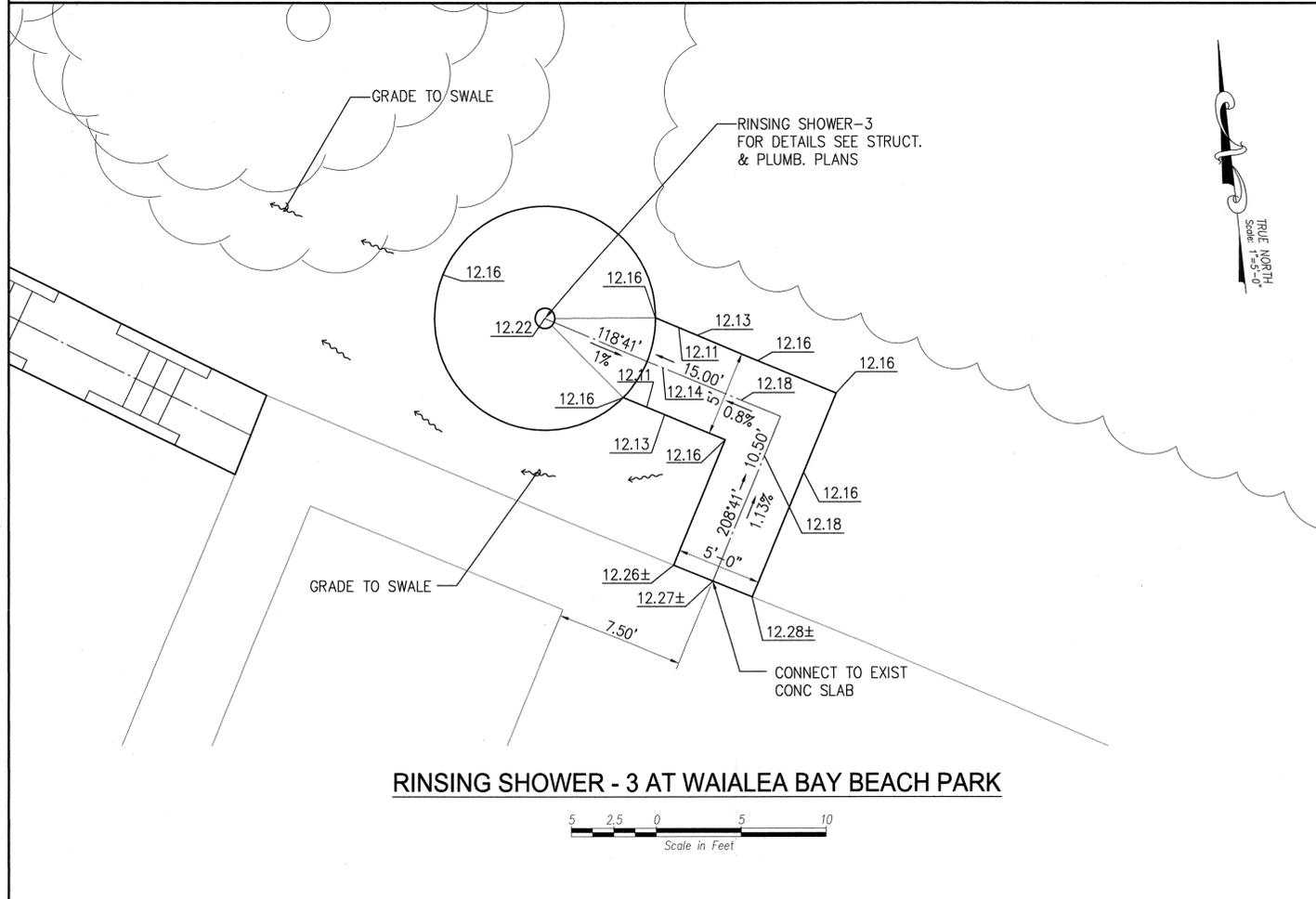
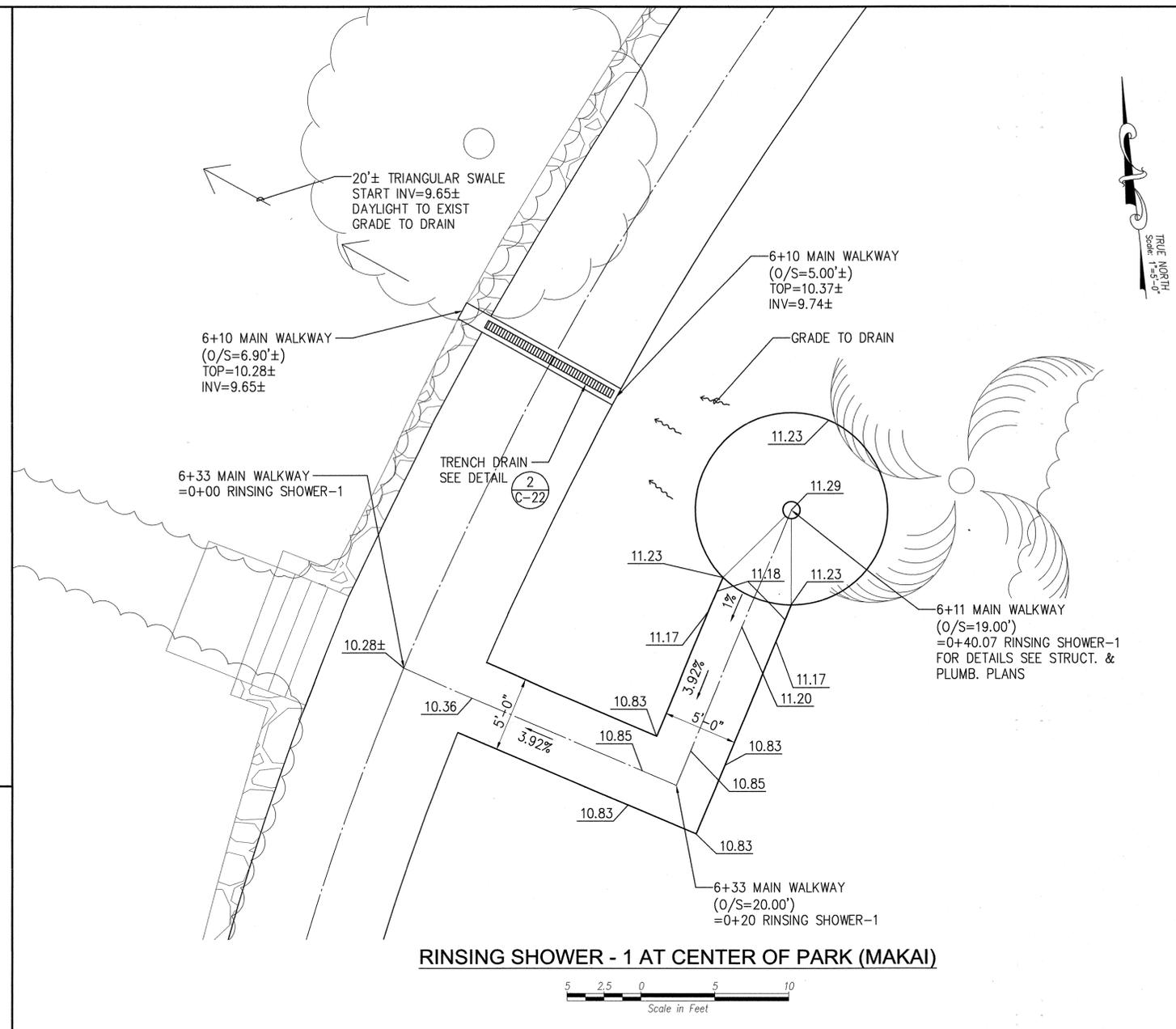
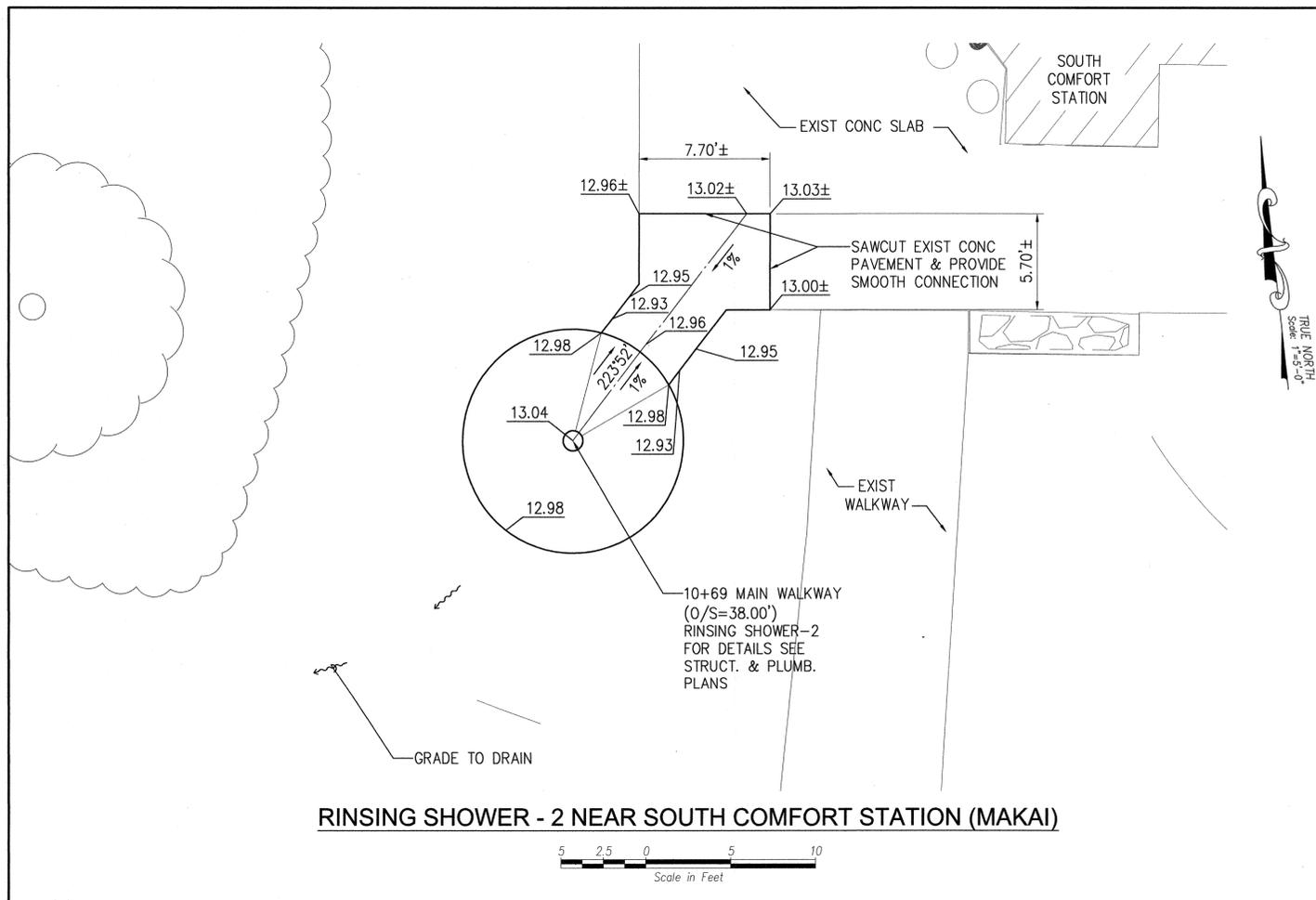
Michael H. Nojima
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

40-FT GOVERNMENT ROAD RESERVE

30-FT ROAD RESERVE

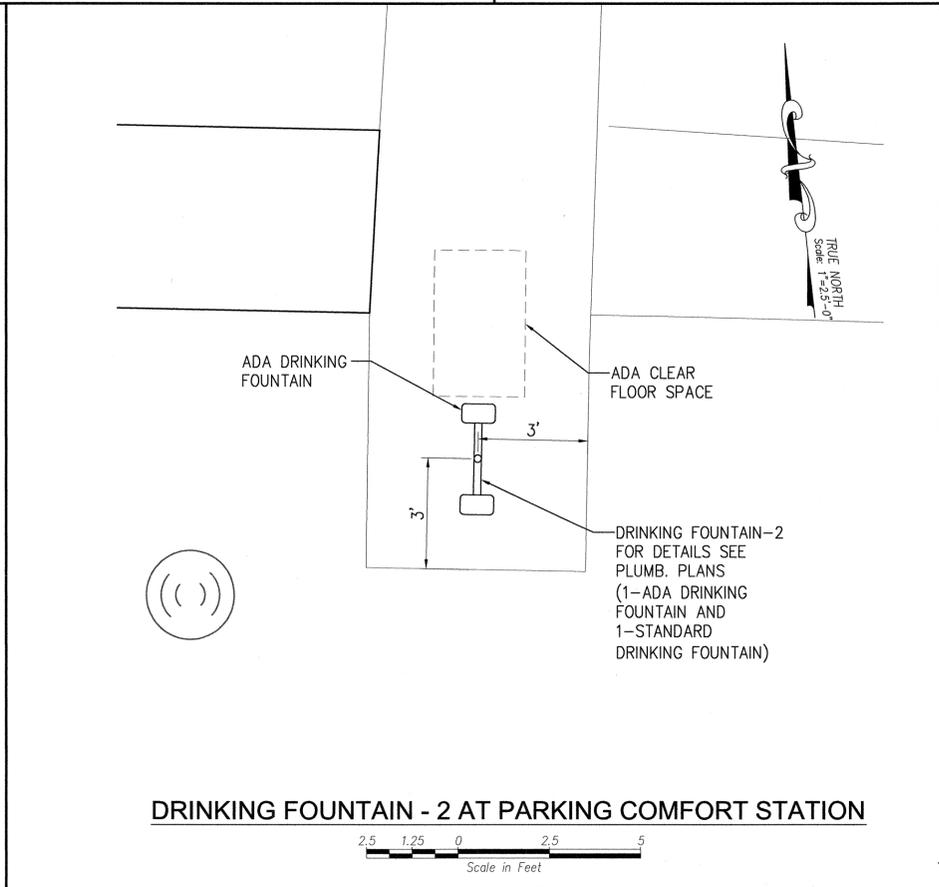
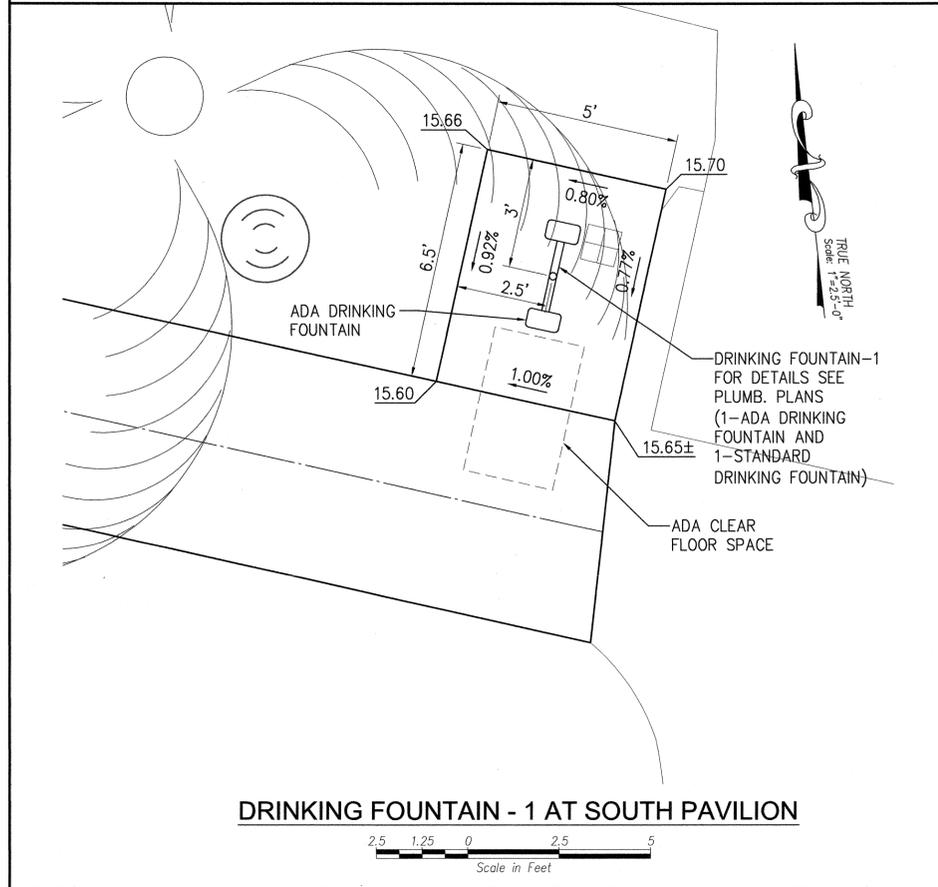
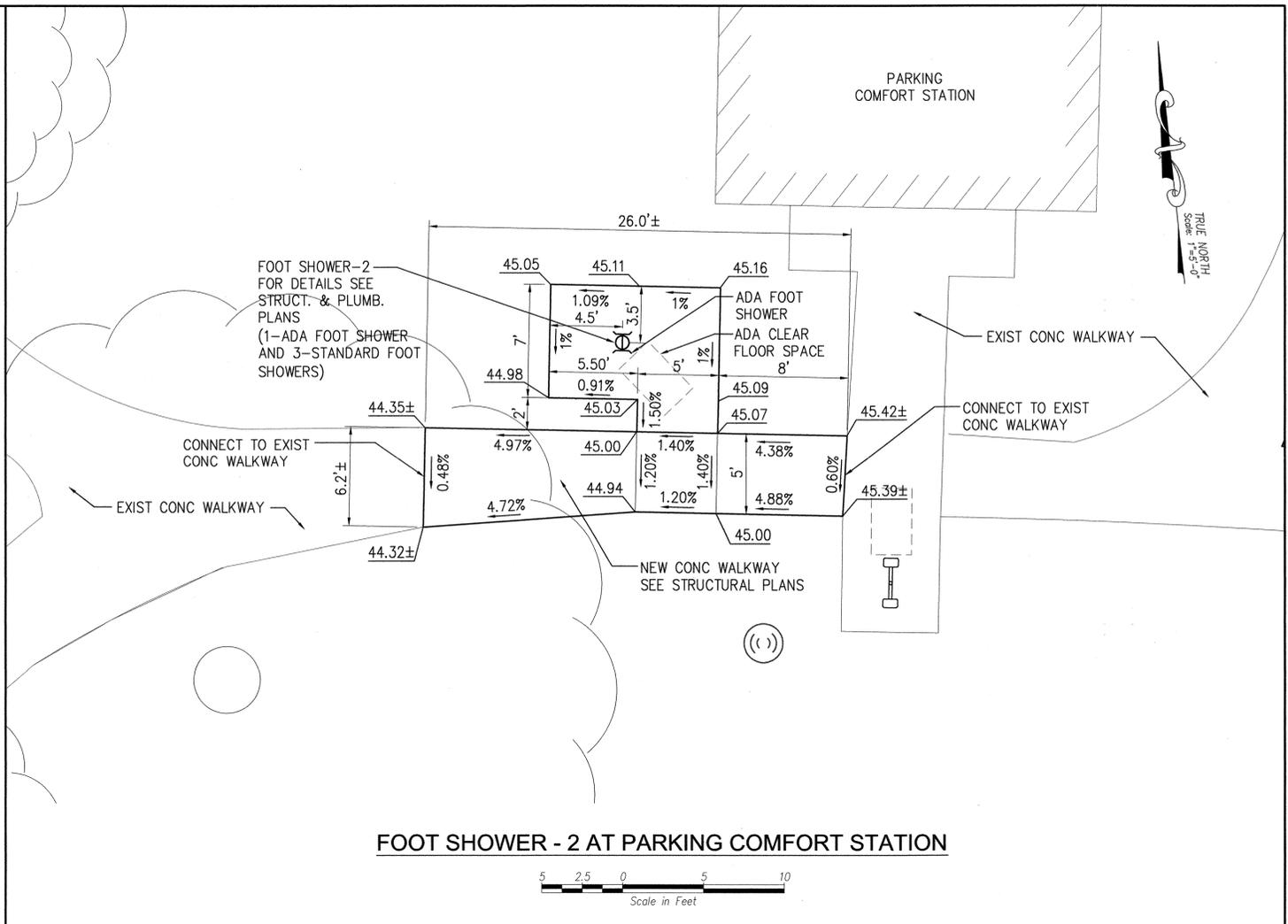
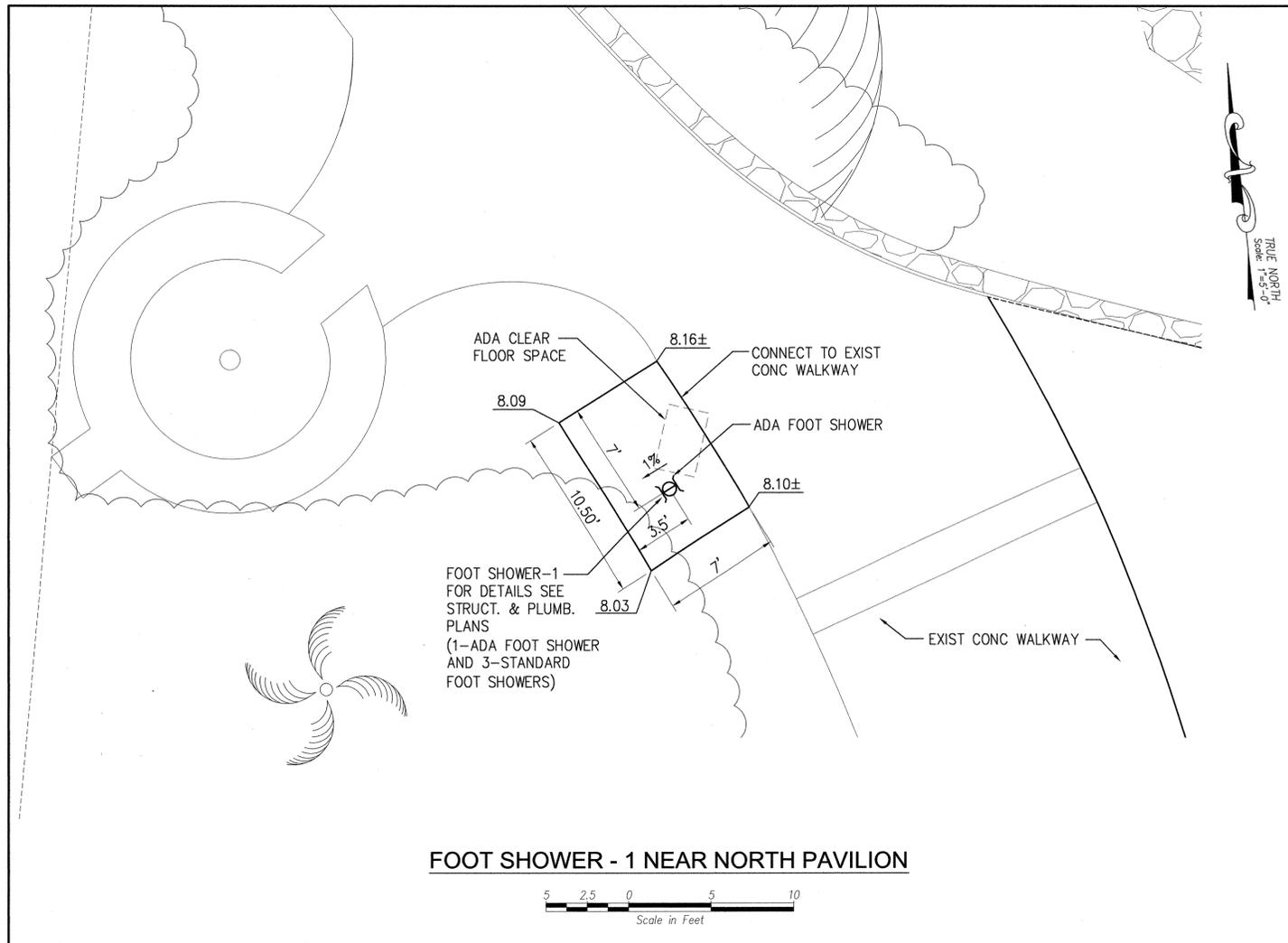
PERPETUAL NON-EXCLUSIVE EASEMENT 6 FOR POLE LINE PURPOSES

WAIALEA



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
ENLARGEMENTS PLAN - 1	
DESIGNED: TH	SUBMITTED: <i>TH</i>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: VARIES
APPROVED: <i>[Signature]</i>	DRAWING NO. C-15
CHIEF ENGINEER	MAY - 3 2016 DATE



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

Exp: 4/30/18

TOBY T. HANZAWA
LICENSED PROFESSIONAL ENGINEER
No. 14526-C
HAWAII, U.S.A.

Judy J. Hanzawa

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 SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94.

Exp: 4/30/18

MICHAEL H. NOJIMA
LICENSED PROFESSIONAL ENGINEER
No. 5632-C
HAWAII, U.S.A.

Michael H. Nojima

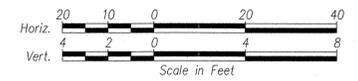
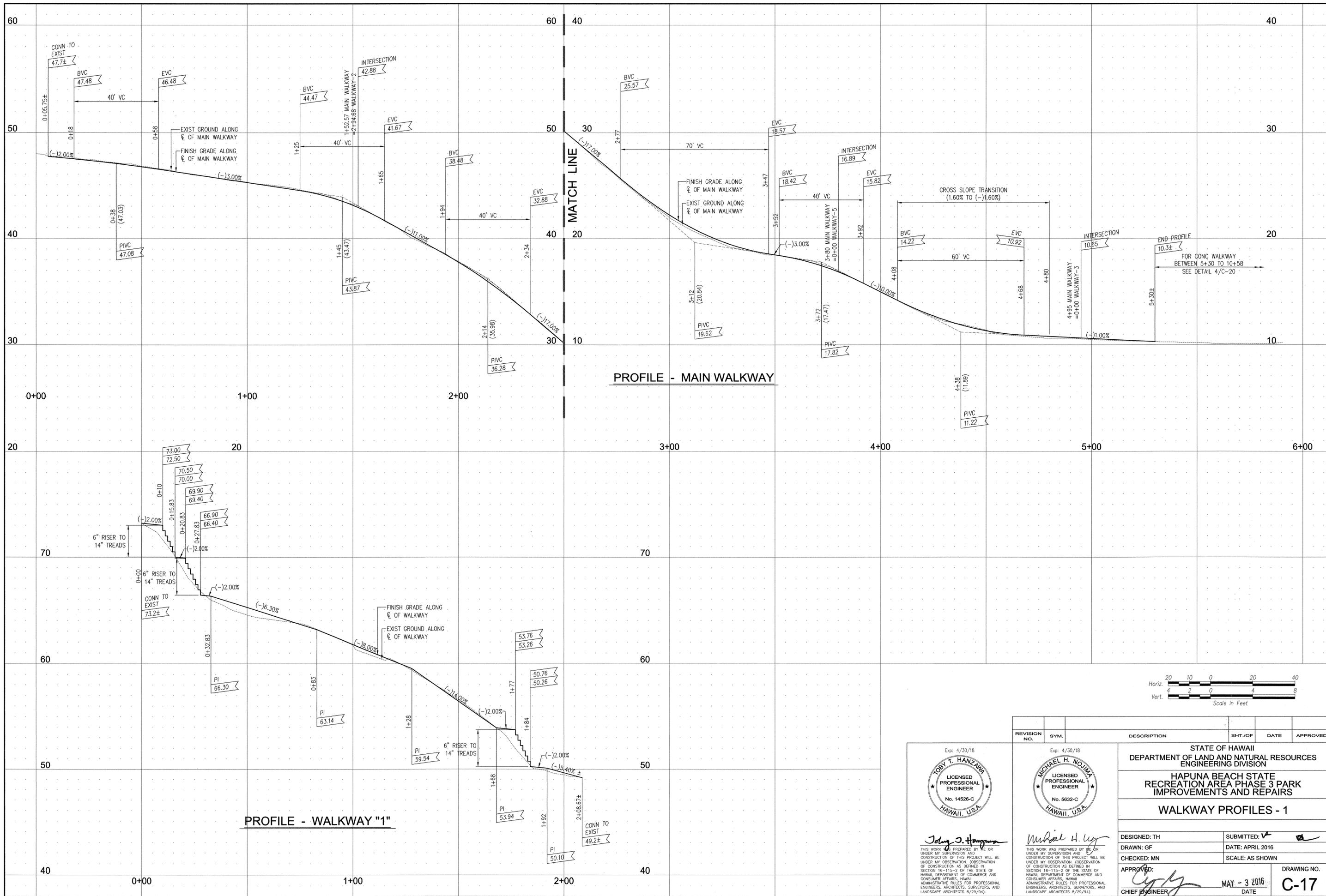
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION, OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS

ENLARGEMENTS PLAN - 2

DESIGNED: TH	SUBMITTED: <i>TH</i>
DRAWN: JG	DATE: APRIL 2016
CHECKED: MN	SCALE: VARIES
APPROVED: <i>Cy</i>	DRAWING NO. C-16
CHIEF ENGINEER	DATE: MAY - 3 2016



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION	
HAPUNA BEACH STATE RECREATION AREA PHASE 3 PARK IMPROVEMENTS AND REPAIRS	
WALKWAY PROFILES - 1	
DESIGNED: TH	SUBMITTED: ✓
DRAWN: GF	DATE: APRIL 2016
CHECKED: MN	SCALE: AS SHOWN
APPROVED: <i>[Signature]</i>	DRAWING NO. C-17
CHIEF ENGINEER	MAY - 3 2016 DATE

Exp: 4/30/18

TOBY T. HANZAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 14526-C
 HAWAII, USA

[Signature]
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 16-115-2 OF THE STATE OF HAWAII, DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS, HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND LANDSCAPE ARCHITECTS 8/29/94).

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MICHAEL H. NOJIMA
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 No. 5632-C
 HAWAII, USA

[Signature]
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