GRADING PLANS FOR

APPROVED for GRADING PURPOSES ONLY

PW. ENG 2021-00132

KONA VISTA SUBDIVISION, UNIT 4 LOT 20 GRADING & MAINTENANCE ROAD

HOLUALOA, NORTH KONA, HAWAII TMK: (3) 7-6-27:143

Should any unanticipated archaeological sites be uncovered by the grading activity, all work shall cease in the immediate area and the contractor shall notify the State Historic Preservation Office at (808) 933-7653. No work shall resume until the

Permittee/Contractor shall provide adequate measures

CLIENT:

KONA THREE LLC IOI HUALALAI STREET

HILO, HI 96720

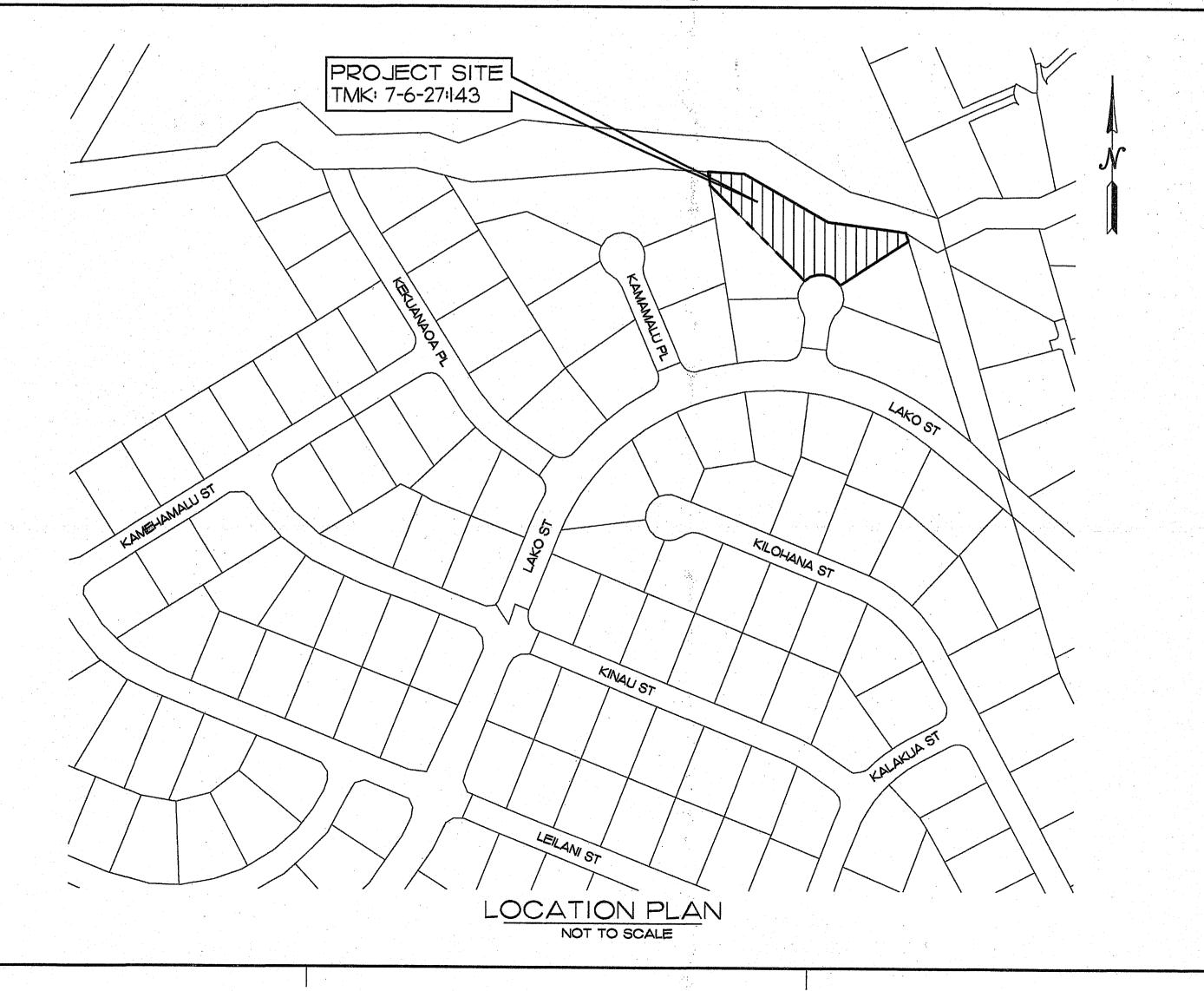
PREPARED BY:

Dempsey Pacific Inc.

civil Engineering Design and Consulting Services P.O. Box 10384

HAWAIIAN ISLANDS NOT TO SCALE HONOKAA KAWAIHAE KAMUELA MAUNA KEA Keahol Point MAUNA LOA PROJECT LOCATION KALAPANA MILOLI VICINITY MAP NOT TO SCALE

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APPROVED BY:

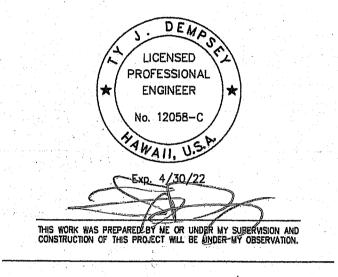
DIRECTOR, DEPARTMENT OF PUBLIC WORKS (FOR GRADING PURPOSES ONLY)

9/9/21 DATE

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HOLUALOA, NORTH KOI TMK: (3) 7-6-27 :

Sheet Title: TITLE SHEET **Drawing Revisions**

Description:

5/28/21 Checked By: TD Job Number:

J15.31 Sheet:

Number: 1 of 8

- ALL GRADING WORK SHALL CONFORM TO CHAPTER IO OF THE 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 HIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTIONS SHALL BE PAYABLE BY THE CONTRACTOR.
- THE CONTRACTOR, AT HIS OWN EXPENCE 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 II-60.I, FUGITIVE DUST.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE II, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS. AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII.
- THE CONTRACTOR SHALL SOD OR PLANT ALL SLOPES AND EXPOSED AREAS IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.
- 6. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- 7. IF REQUIRED, 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 THE BORROW SITE/S MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE. NO OFF-SITE HAULING OR IMPORTING OF FILL MATERIAL FROM BORROW SITE IS ANTICIPATED FOR THIS PROJECT, APART OF ROAD BASES.
- 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 DAYS SHALL BE BETWEEN THE HOURS OF 7:00 A.M. TO 3:30 P.M.
- FILLS SHALL BE COMPACTED TO THE REQUIREMENTS SHOWN IN THE SOILS REPORT, CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER TO SCHEDULE COMPACTING TESTING AND OBSERVATION SCHEDULES. GEOTECHNICAL ENGINEER WILL BE REQUIRED TO APPROVE THE GRADING OPERATIONS AND TEST
- 10. THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACE.
- THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT TWO WEEKS PRIOR TO BEGINNING OF GRADING WORK FROM THE DEPARTMENT OF PUBLIC WORKS PERMIT SECTION, GRADING FEES SHALL BE PAID BY THE CONTRACTOR OR OWNER.
- 12. THE LIMITS OF THE GRADED AREA SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF GRADING WORK.
- THE CONTRACTOR SHALL CONFINE ALL HIS GRADING OPERATIONS WITHIN CONTRACT LIMITS AND SHALL PROTECT EXISTING FEATURES CLOSE TO LIMITS.
- 14. SHOULD ANY UNIDENTIFIED SITES OR REMAINS SUCH AS ARTIFACTS, SHELL, BONE OR CHARCOAL DEPOSITS, HUMAN BURIALS, ROCK OR CORAL ALIGNMENTS, PAVINGS OR WALLS BE ENCOUNTERED, WORK IN THE AFFECTED AREA SHALL CEASE AND THE PLANNING DEPARTMENT AND THE OWNER'S DESIGNATED REPRESENTATIVE IMMEDIATELY NOTIFIED, SUBSEQUENT WORK SHALL PROCEED UPON AN ARCHEOLOGICAL CLEARANCE FROM THE PLANNING DEPARTMENT. THROUGH THE OWNER'S DESIGNATED REPRESENTATIVE, WHEN IT FINDS THAT SUFFICIENT MITIGATIVE MEASURES HAVE BEEN TAKEN.
- ALL STABILIZED SHOULDERS AND GRADED AREAS SHALL IN ADDITION TO TEMPORARY EROSION CONTROL. BE PLANTED WITH PERMANENT VEGETATIVE COVER ACCORDING TO THE LANDSCAPE ARCHITECT'S REQUIREMENTS AND/OR THE FOLLOWING:
- PREPARATION OF PLANTING AREA SHALL BE IN ACCORDANCE TO SECTION 50 (STANDARD SPECS) TOPSOIL SHALL BE NATIVE SOIL EXCAVATED FROM ROADWORK AMENDED AS REQUIRED BY THE ENGINEER.
- PERMANENT VEGETATIVE COVER SHALL CONSIST OF A MIXTURE OF 6 LBS. ANNUAL RYE GRASS AND 60 LBS. BUFFEL GRASS SEED PER ACRE. FERTILIZER TO BE DETERMINED AFTER THE CONTRACTOR SUBMITS TOPSOIL SAMPLE FOR ANALYSIS.
- PLANTING AND MAINTENANCE SHALL BE IN ACCORDANCE TO SECTION 50 (STANDARD SPECS). TEMPORARY IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS NECESSARY TO ESTABLISH PLANT GROWTH FOR
- LAVA ROCK, CINDER, AND INFILTRATION TRENCH ROCK TO BE PLACED IN SHOULDER OF ROAD AREAS.
- 16. THE FOLLOWING QUANTITIES ARE PROVIDED FOR PERMIT PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN QUANTITIES, ESTIMATED EARTHWORK QUANTITIES:

CUBIC YARDS CUBIC YARDS EXCAVATION = 234 EMBANKMENT = 2,123 0.50 GRADED AREA =

17. ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY'S GRADING ORDINANCE, AS AMENDED,

EROSION / TEMPORARY DUST CONTROL:

- DURING CONSTRUCTION, PREVENTIVE MEASURES SHALL BE USED TO CONTROL FORESEEABLE DUST, EROSION OR SEDIMENTATION PROBLEMS WHICH MAY ARISE AS THE JOB PROGRESSES.
- DRAINAGE SYSTEMS AS SHOWN ON THE CONSTRUCTION PLANS SHALL BE CONSTRUCTED AS EARLY AS PRACTICALLY POSSIBLE
- 3. THE CONTRACTOR SHALL CONDUCT HIS GRADING OPERATIONS SO THAT EXCAVATED, EMBANKMENT AND IMPORTED MATERIAL SHALL BE DAMPENED WITH WATER DURING HIS GRADING OPERATIONS AT ALL TIMES.
- 4. WATER TRUCK AND/OR TEMPORARY SPRINKLERS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES TO ENSURE BARE EARTH DOES NOT CREATE A DUST PROBLEM.
- TEMPORARY VEGETATIVE COVER SHALL BE PLANTED WITHIN A PERIOD OF 30 CALENDAR DAYS AFTER THE SITE HAS BEEN GRADED OR BARED OF VEGETATION IF FINAL GRADING OR LANDSCAPING OF THE SITE WILL BE SUSPENDED FOR MORE THAN 30 CALENDAR DAYS. TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 40 LBS. COMMON RYE GRASS SEED PER ACRE, 400 LBS. ACRE 10-10-10 OR EQUIVALENT FERTILIZER WORKED INTO SEED BED BEFORE PLANTING. TEMPORARY SPRINKLER SYSTEM TO BE INSTALLED CONCURRENTLY WITH ALL PLANTINGS. PLANTING AND MAINTENANCE OF GRASS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", SEPTEMBER 1986.
- 6. FUGITIVE DUST AND SOLID WASTE DISPOSAL DURING GRUBBING AND GRADING ACTIVITIES SHALL MEET REQUIREMENTS OF ADMINISTRATIVE RULES, TITLE II, CHAPTER 60, AIR POLLUTION CONTROL AND CHAPTER 56, SOLID WASTE MANAGEMENT CONTROL.

NOTES FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY:

- I. ALL WORK SHALL BE DONE IN ACCORDANCE WITH 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.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO HIS CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE RESPECTIVE UTILITY COMPANIES.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, AND AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS.
- 4. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS 48 HOURS BEFORE THE COMMENCEMENT OF ANY UTILITY LINE WORK TO SCHEDULE A FIELD REVIEW AND SECURE APPROVAL OF THE PROPOSED UTILITY LINE LOCATION WITHIN THE COUNTY RIGHT-OF-WAY.
- 5. THE PROPOSED UTILITY LINE LOCATION SHALL BE LAID OUT IN THE FIELD PRIOR TO THE CONDUCTING OF THE FIELD REVIEW BY THE DEPARTMENT OF PUBLIC WORKS.
- FIELD ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO THE COMMENCEMENT OF ANY UTILITY LINE WORK.
- 7. THE REQUIRED PERMIT, UNDER CHAPTER 22, ARTICLE 3 SECTION 22-44 OF THE HAWAII COUNTY CODE, SHALL BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS BY THE CONTRACTOR FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY.
- 8. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE (1) LANE FOR TRAFFIC MOVEMENT AT ALL TIMES, TWO (2) LANES FOR TRAFFIC MOVEMENT SHALL BE PROVIDED BETWEEN THE HOURS OF 3:30 P.M. TO 8:00 A.M.
- 9. THE EXISTING PAVEMENT SHALL BE SAW-CUT BEFORE COMMENCEMENT OF TRENCHING WORK
- 10. ANY PAVEMENT OUTSIDE THE CONTRACT ZONE LIMITS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL CONDITION, OR BETTER, AS DIRECTED BY DPW.
- II. A TEMPORARY COLD MIX PATCH SHALL BE APPLIED IMMEDIATELY UPON COMPLETION OF THE BACKFILLING OPERATION AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A PERMANENT PATCH IS AUTHORIZED BY THE DEPARTMENT OF PUBLIC WORKS.
- 12. NO MATERIAL EXCEPT THE TRENCH EXCAVATED MATERIAL SHALL BE STOCKPILED CLOSER THAN SIX (6) FEET FROM THE EXISTING EDGE OF PAVEMENT.
- 13. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED WITHIN THE ROAD RIGHT-OF-WAY IN SUCH A MANNER THAT THE EQUIPMENT WILL OBSTRUCT THE NORMAL MOVEMENT AND SIGHT DISTANCE OF THE DRIVING MOTORIST, EXCEPT DURING ACTUAL WORKING HOURS.
- 14. EXCEPT DURING ACTUAL WORKING HOURS, ALL SIGNS THAT DO NOT PERTAIN TO THE CONSTRUCTION ACTIVITY SUCH AS MEN WORKING AND FLAGMAN AHEAD SHALL BE COVERED OR LAID DOWN, HOWEVER, ALL SIGNS NECESSARY FOR THE SAFETY OF THE PUBLIC SHALL BE MAINTAINED.
- 15. ANY PAVEMENT MARKINGS, STRUCTURES AND APPURTENANCES (WITHIN OR OUTSIDE OF THE CONTRACT ZONE LIMITS) DAMAGED AND/OR WORN AWAY UNDER THE PERMIT SHALL BE REPAINTED OR RECONSTRUCTED AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS.
- 16. NO TRENCHING SHALL BE LEFT OPEN FOR MORE THAN FIVE (5) WORKING DAYS,
- 17. SHOULD TRENCHING OCCUR THROUGH AN EXISTING SIDEWALK OR SHOULD DAMAGES OCCUR TO THE SIDEWALK AS A RESULT OF ANY CONSTRUCTION WORK, THE FOLLOWING PROCEDURE SHALL BE UTILIZED TO
- A. ALL PORTLAND CEMENT CONCRETE TO BE REMOVED SHALL FIRST BE CUT WITH A CONCRETE SAW THAT HAS A DIAMOND OR CARBORUNDUM ABRASIVE WHEEL. THOSE CUTS SHALL BE MADE TO A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE DEPTH OF THE SLAB, OR ENOUGH AS IS DEEMED NECESSARY BY THE DEPARTMENT OF PUBLIC WORKS. TO PERMIT BREAKING OUT THE BALANCE OF THE CONCRETE WITHOUT SPALLING OFF THE EXPOSED EDGES OF THE SLAB LEFT IN PLACE.
- B. IF ANY CONCRETE BLOCK IS TOUCHED, THE WHOLE BLOCK SHALL BE REMOVED AND LATER REPLACED, UNLESS A MINOR VARIATION IS AUTHORIZED BY THE DPW OR ITS REPRESENTATIVE.
- C. ANY DAMAGES TO ADJACENT AREAS DUE TO SETTLEMENT OR TO ANY OTHER EFFECTS WHATSOEVER CAUSED BY THE CONSTRUCTION WORK SHALL BE PROPERLY REPAIRED AND CORRECTED.
- D. ALL OTHER INCIDENTAL WORK SHALL BE SATISFACTORILY PERFORMED TO EFFECT THE PROPER RESTORATION OF THE SIDEWALK AREA.
- E. SHOULD DAMAGE TO A SIDEWALK CURB AND/OR GUTTER OCCUR AT A LOCATION WHERE A CURB RAMP SHOULD EXIST, OR TO A DRIVEWAY THAT DOES NOT MEET WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), REPAIR WORK SHALL INCLUDE THE CONSTRUCTION OF A CURB RAMP, OR RECONSTRUCTION TO THE DRIVEWAY SUCH THAT THE REPAIR WORK COMPLIES WITH THE ADA AND MEETS WITH THE APPROVAL OF THE DPW.
- 18. THE PERMITTEE SHALL MAINTAIN TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS, THE AREA WORKED WITHIN THE GOVERNMENT RIGHT-OF-WAY INCLUDING ANY REPAIRS TO PAVEMENT AND SHOULDER DAMAGE AS A RESULT OF THE INSTALLATION WORK FOR A PERIOD OF ONE (I) YEAR FROM THE DATE OF FINAL INSPECTION. THE PERMITTEE SHALL UNDERTAKE REPAIR WORKS EXPEDITIOUSLY, WHENEVER DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS DURING THE MAINTENANCE PERIOD.
- 19. ALL WORK TO BE DEDICATED TO THE COUNTY OF HAWAII SHALL COMPLY WITH HAWAII REVISED STATUTE
- 20. THE CONTRACTOR SHALL PROVIDE FOR TEMPORARY SAFE PER PEDESTRIAN PASSAGE WAY AROUND THE CONSTRUCTION SITE PER THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES SECTION 4.I.I (4) AS NECESSARY.

ABBREVI	ATIONS:		
AC, A/C	ASPHALTIC CONCRETE	ICV	IRRIGATION CONTROL VALV
4DA	AMERICANS WITH DISABILITIES ACT	E	INVERT ELEVATION
APP, APPROX	APPROXIMATE	IN	INCHES
ARV	AIR RELIEF VALVE	INV	INVERT
ΔТВ	ASPHALT TREATED BASE	IPT	INTERNAL PIPE THREAD
∃C	BOTTOM OF CURB / BOLT CIRCLE	I.D.	INNER DIAMETER
BDC	BOTTOM OF DROP CURB	JKT	JACKET
3FP	BACKFLOW PREVENTER		
BLK(S)	BLOCK(S)	LG	LONG
BLDG	BUILDING	LN	LOCKNUT
вот.	BOTTOM	LW	LOCK WASHER
BRC	BOTTOM OF ROLLED CURB	MB	MAIL BOX
3W	BOTTOM OF WALL	MON	MONUMENT
2	CENTERLINE	O/H	OVERHEAD
- CB	CATCH BASIN		
CEC	CITY AND COUNTY OF HONOLULU	PAV'T	PAVEMENT
CFS/CFS	CUBIC FEET PER SECOND	POC	POINT OF CONNECTION
OL	CLASS	PROF	PROFILE
CLF	CHAIN LINK FENCE	PROP.	PROPOSED
CLR	CLEARANCE	PSI	POUND PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	PVC	POLYVINYL CHLORIDE
00	CLEANOUT		
COTG	CLEANOUT TO GRADE	S	SEWER, SLOPE, SPREAD
CONC	CONCRETE	SDMH	STORM DRAIN MANHOLE
CONN	CONNECTION	SF	SQUARE FOOT
CORP	CORPORATION	SHT	SHEET
COUNTY	COUNTY OF HAWAII	SL	STREET LIGHT
CP	CONTROL POINT	SLB	STREET LIGHT BOX
OPLG.	COUPLING	SMH	SEWER MANHOLE
CRM	CEMENT RUBBLE MASONRY CUBIC	SYMM	SYMMETRICAL
CU CV	CUBIC YARDS	SST/SS	STAINLESS STEEL
CY	CUBIC TARDS	ST	STREET
)	DRAIN, DIAMETER	STA	STATION
DEFL	DEFLECTION	STD	STANDARD
DET	DETAIL	STRUCT	STRUCTURAL
OI	DUCTILE IRON, DRAIN INLET, DROP INLET	SQ	SQUARE
DIA.	DIAMETER	тс	TOP OF CURB
DMH	DRAIN MANHOLE	TDC	TOP OF DROP CURB
DRWY/DW	DRIVEWAY	TEMP	TEMPERATURE
DPW	DEPARTMENT OF PUBLIC WORKS	THK	THICK
ows	DEPARTMENT OF WATER SUPPLY	TMH	TELEPHONE MANHOLE
2000	DE ACTUENT OF WATER SOFFET		
■	EAST, ELECTRIC	TP	TELEPHONE POLE
ĒA ·	EACH	TRC	TOP OF ROLLED CURB
EAC	EDGE AC PAVEMENT	TREE-	
EG .	EXISTING GROUND		ETER OF TRUNK)
EL, ELEV	ELEVATION	(H= HEIG (S= SPRE	
EMH	ELECTRIC MANHOLE		
EVC	END VERTICAL CURVE	TSB	TRAFFIC SYSTEM BOX
EOH	ELECTRICAL OVERHEAD	TSL	TRAFFIC SYSTEM LIGHT
₽	ELECTRICAL POLE	TS	TOP STEM
EW	EACH WAY	TV	TOP VERTICAL
EXIST, EX	EXIST, EXISTING	TW	TOP OF WALL
= 1 KALA	EEDEDAL LIIOLIMAAN ADMINISTRATIONI	TYP	TYPICAL
=HWA =L	FEDERAL HIGHWAY ADMINISTRATION FLOOD LINE	UC	UNDERGROUND CABLE
-L -PS	FEET PER SECOND	UE	UNDERGROUND ELECTRICAL
т <u>-</u>	FEET	UP	UTILITY POLE
	Landard Land	UT	UNDERGROUND TELEPHONE
∋D	GROUND	V.	VALUE BASS
∋P SV	GUY POLE	VB	VALVE BOX
∋V ∋UY	GATE VALVE GUY WIRE	VC VII	VERTICAL CURVE
9W	GUY WIRE	VH V, VERT	VALVE HANDLE VERTICAL
<u>.</u>			
₽ F	HOSE BIB	W	WATER, WEST
-ID -IGL	HEAD HYDRAULIC GRADE LINE	W/	WITH
-9L -T, H	HEIGHT	WL	WATERLINE
-N	HEAD NUT	W.L.	WATER LEVEL
IT WALL	LICH OW THE WALL	WM	WATER METER

HOLLOW TILE WALL

HIGH DENSITY POLYETHYLENE

HIGH POINT

HORIZONTAL

HOUR

HORIZ/HOR

HDPE

WATER VALVE

WV

WVHH

WATER MANHOLE

WATER VALVE HAND HOLE

WELDED WIRE FABRIC

LEGEND:

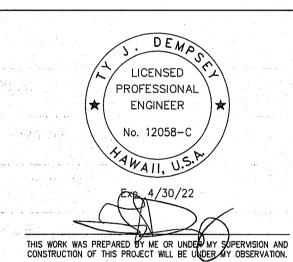
n ni m unarrimana	PROPERTY LINE	
-S8	PROPOSED SEWERLINE	
-D6	PROPOSED DRAINLINE	
-W6	PROPOSED WATERLINE	
—l6———	PROPOSED IRRIGATION	
S8	EXIST. SEWERLINE W/ SIZE	
Dı2 — —	EXIST. DRAINAGE LINE	
- Wa	EXIST. WATERLINE W/ SIZE	
- la	EXIST. IRRIGATION LINE W/ SIZE	
	LIMITS OF GRADING	
-10	PROPOSED CONTOUR MAJOR	
8	PROPOSED CONTOUR MINOR	
30	EXIST. CONTOUR MAJOR	
21	EXIST. CONTOUR MINOR	
25.05 –	SPOT ELEVATION (PROPOSED)	
25.05±-*	SPOT ELEVATION (EXIST.)	
~ ~~	EXIST. SURFACE FLOW	
\rightarrow \longrightarrow	SWALE	
(Ô)	SEWER MANHOLE (SMH)	
	SEWER LATERAL & CLEAN OUT	
	WATER VALVE	
	WATER LINE REDUCER	
	WATER SERVICE LATERAL	
	FIRE HYDRANT	

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Appr:

Sheet Title: NOTES, LEGEND & ABBREVIATIONS

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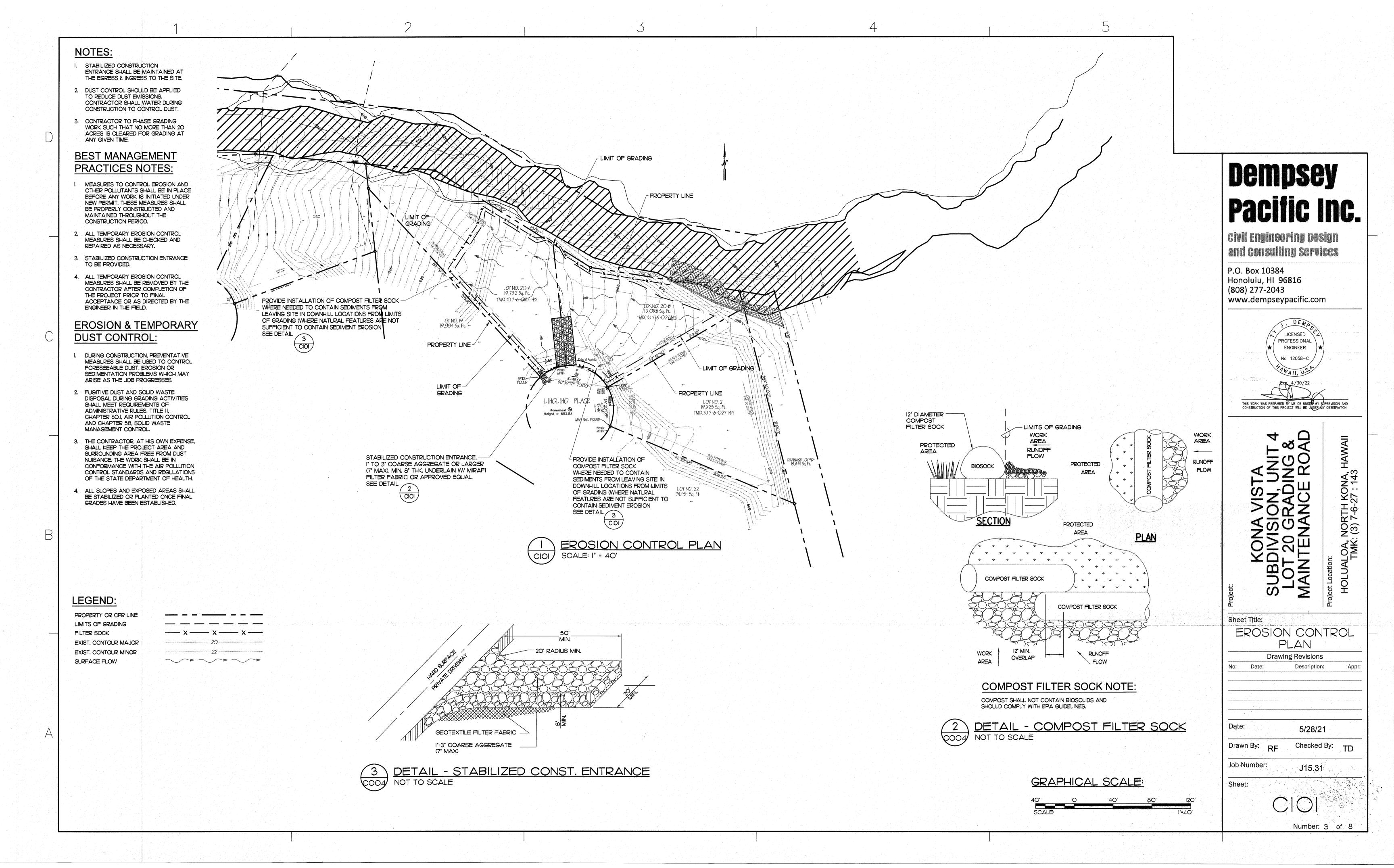
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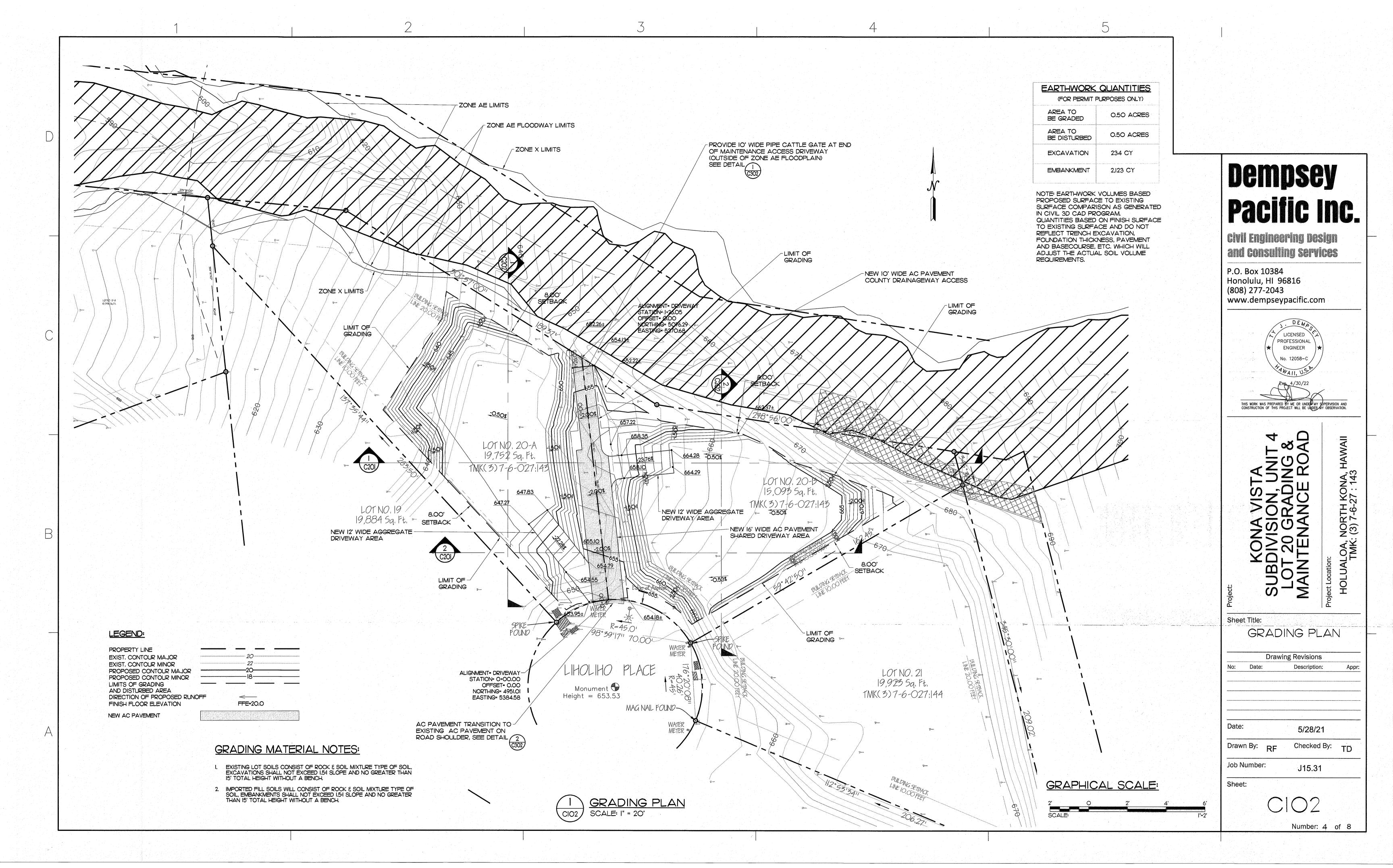
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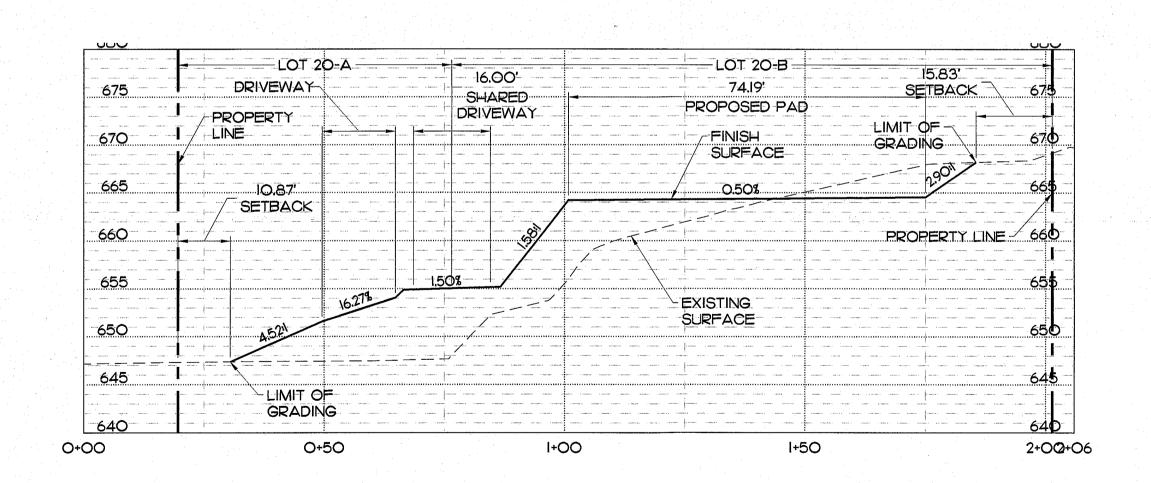




LOT 20-B PROPERTY LINE 59.57 680 PROPOSED PAD -LOT 20-A-LIMIT-OF -GRADING 675 - DRIVEWAY -PROPERTY LINE -FINISH SURFACE SHARED DRIVEWAY 670 PROPOSED PAD 665 10.83' SETBACK 660 0.50% 655 EXISTING SURFACE 65O 0.96% 645 640 LIMIT OF GRADING -635 -630 0+00 3+003+07 1+00 2+00 0+50 1+50 2+50

GRADING SECTION I

C201 SCALE: HOR. I" = 20'
VERT. I" = 10'



2 GRADING SECTION 2

C201 SCALE: HOR. I" = 20'
VERT. I" = 10'

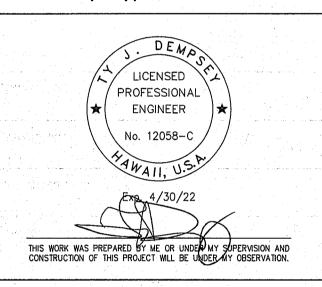
GRADING MATERIAL NOTES:

- I. EXISTING LOT SOILS CONSIST OF ROCK & SOIL MIXTURE TYPE OF SOIL, EXCAVATIONS SHALL NOT EXCEED 1.5:1 SLOPE AND NO GREATER THAN 15' TOTAL HEIGHT WITHOUT A BENCH.
- IMPORTED FILL SOILS WILL CONSIST OF ROCK & SOIL MIXTURE TYPE OF SOIL, EMBANKMENTS SHALL NOT EXCEED I.5:I SLOPE AND NO GREATER THAN 15' TOTAL HEIGHT WITHOUT A BENCH.

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KONA VISTA BDIVISION, UNIT 4 OT 20 GRADING & INTENANCE ROAD

HOLUALOA, NORTH KONA, HAWAII TMK: (3) 7-6-27: 143

Project:

Sheet Title:

GRADING SECTIONS I

Drawing Revisions

No: Date: Description: Appr:

Date: 5/28/21

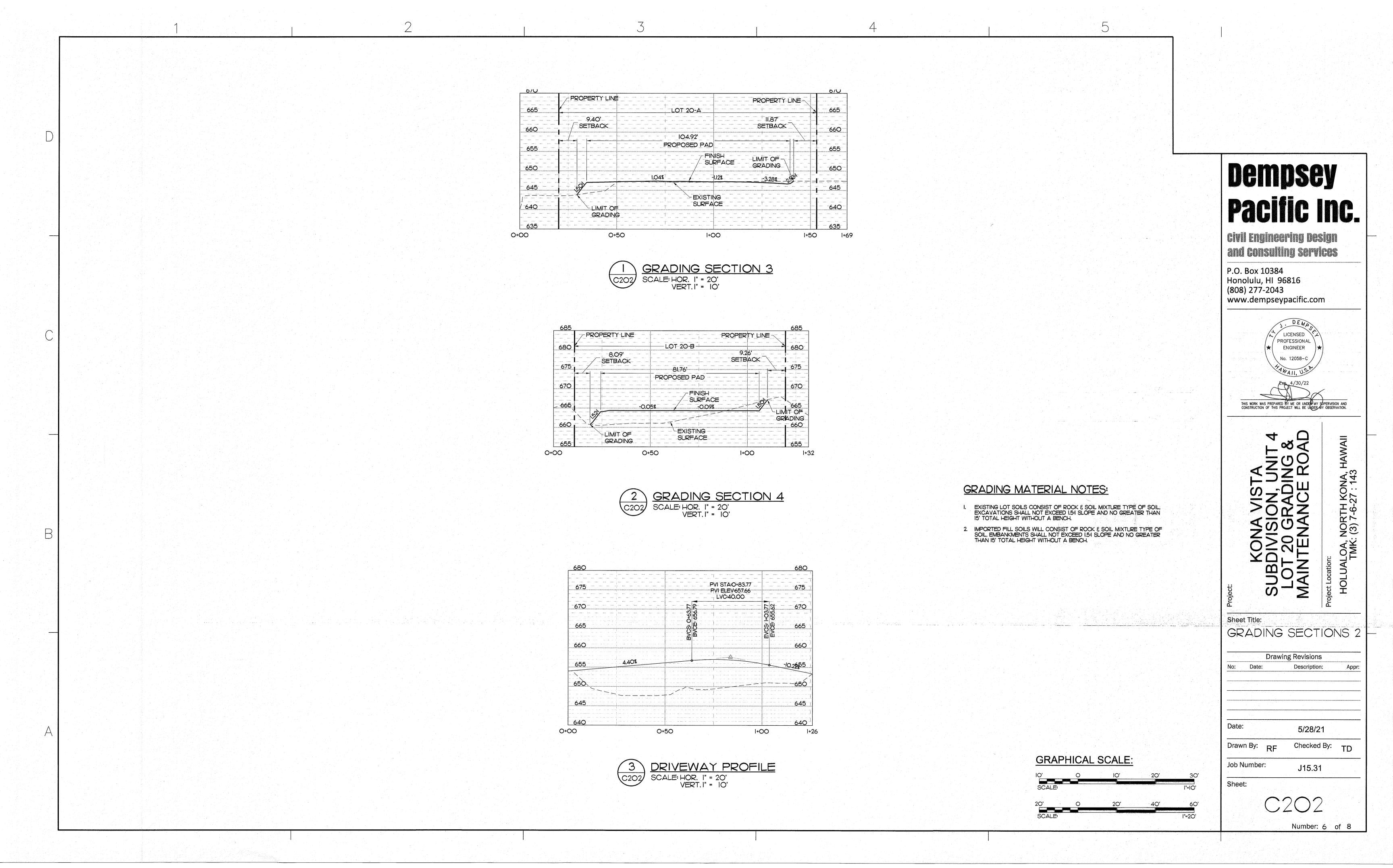
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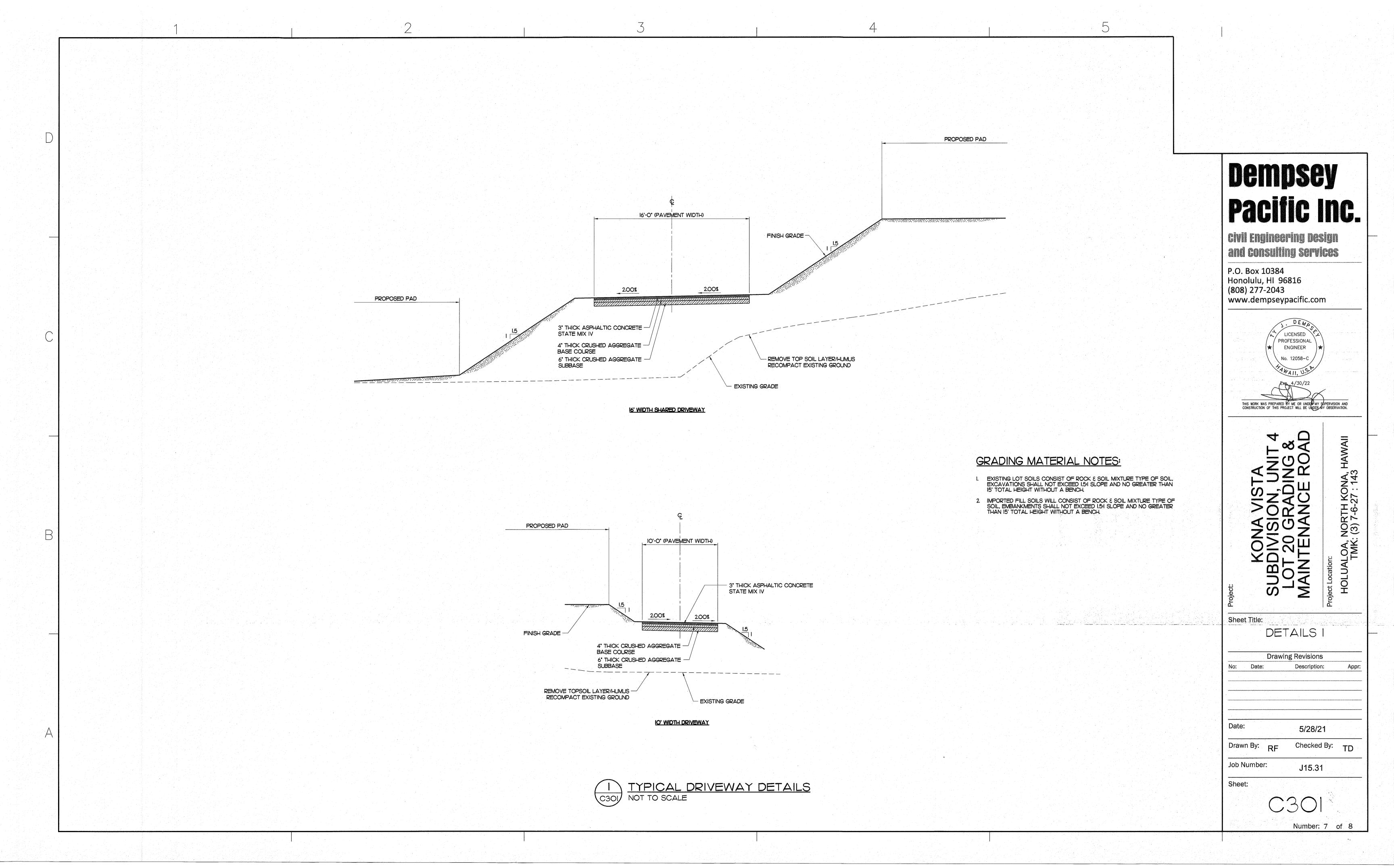
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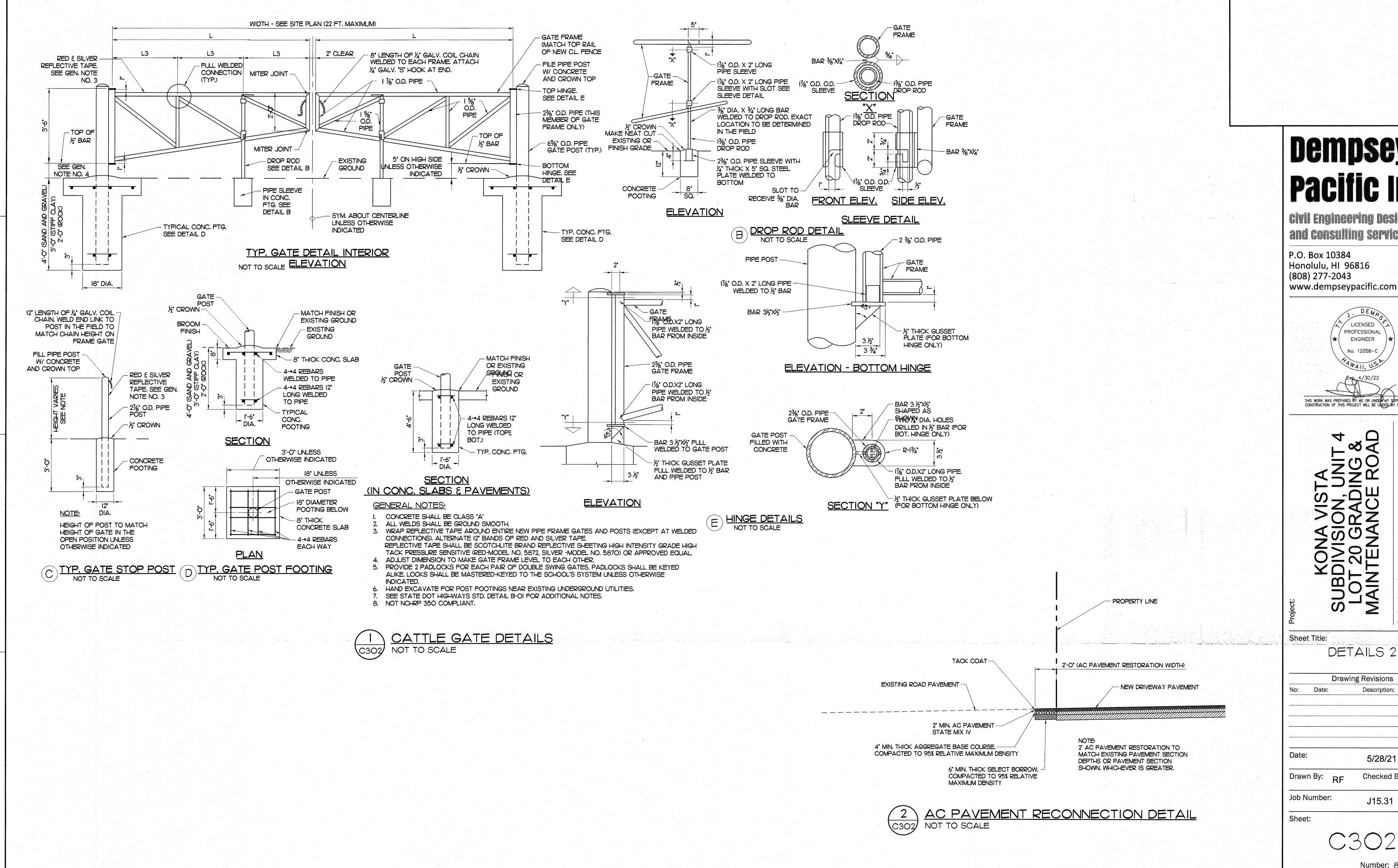
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Number: 5 of 8



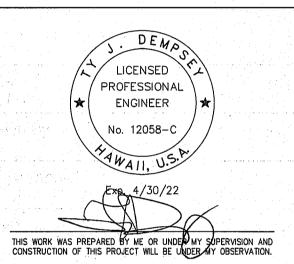




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VA, HAWAII 143

HOLUALOA, NORTH KON TMK: (3) 7-6-27 :

Drawing Revisions Description:

Checked By: TD

Number: 8 of 8