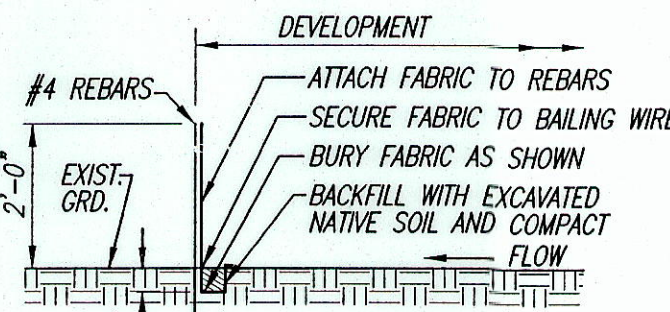
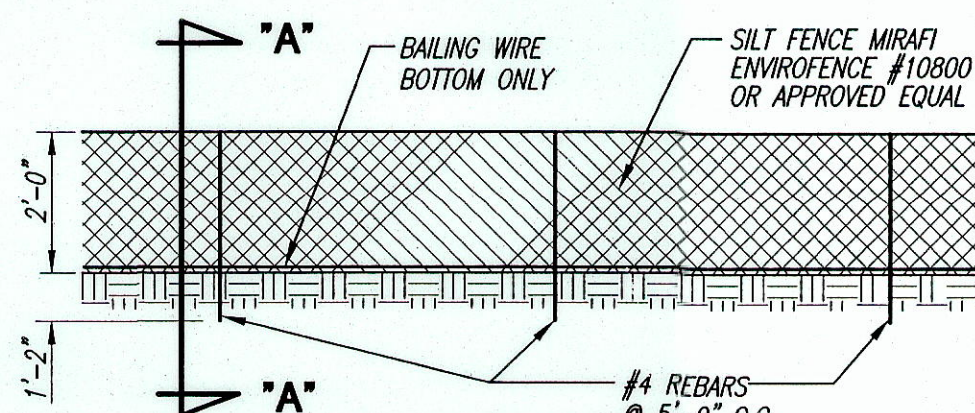


CONSTRUCTION BMPs

- THE FOLLOWING SPECIAL CONDITIONS APPLY TO ALL LAND DISTURBANCE WORK CONDUCTED UNDER THE GENERAL PERMIT:
 - CONSTRUCTION MANAGEMENT TECHNIQUES INCLUDE:
 - CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM NECESSARY FOR TRENCHING AND EQUIPMENT OPERATION.
 - CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
 - CONSTRUCTION SHALL BE STAGED OR PHASED FOR LARGE PROJECTS. AREAS OF ONE PHASE SHALL BE STABILIZED BEFORE ANOTHER PHASE CAN BE INITIATED. STABILIZATION SHALL BE ACCOMPLISHED BY TEMPORARILY OR PERMANENTLY PROTECTING THE DISTURBED SOIL SURFACE FROM RAINFALL IMPACTS AND RUNOFF.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT SHALL BE REPLACED AT THE END OF THE WORK DAY.
 - ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED, AS NECESSARY, WEEKLY IN DRY PERIODS AND WITHIN 24-HOUR PERIOD DURING PROLONGED RAINFALL. DAILY CHECKING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
 - A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
 - VEGETATION CONTROLS INCLUDE:
 - PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 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 30 CALENDAR DAYS.
 - PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION SHALL BE APPLIED AS SOON AS PRACTICABLE AFTER FINAL GRADING.
 - STRUCTURAL CONTROLS INCLUDE:
 - ALL SURFACE WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING BERMS, CHANNELS, SEDIMENT TRAPS, AND OTHER APPROPRIATE CONTROL MEASURES, AS PRACTICAL.
 - EROSION CONTROL MEASURES SHALL BE DESIGNED ACCORDING TO THE SIZE OF DISTURBED OR DRAINAGE AREAS, TO DETAIN RUNOFF AND TRAP SEDIMENT.
 - WATER MUST BE DISCHARGED THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION.
 - MUDDY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS MUST BE HELD IN SETTLING BASINS OR TREATED FILTRATION OR OTHER APPROPRIATE MEASURES PRIOR TO ITS DISCHARGE INTO STATE WATERS. WATER MUST BE DISCHARGED THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION AND SEDIMENTATION.



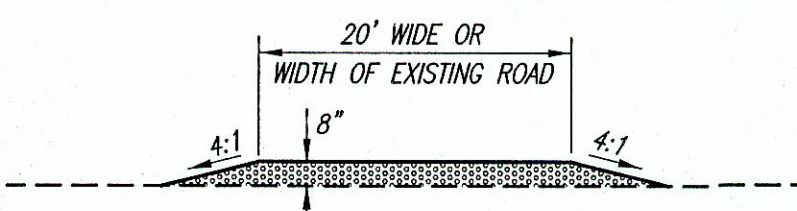
SECTION "A-A"



ELEVATION

DETAIL - SILT FENCE

NOT TO SCALE

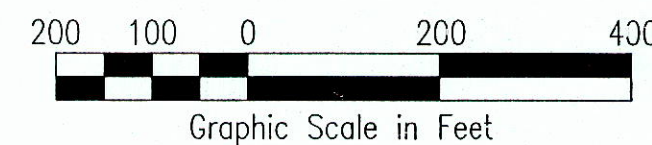


DETAIL - INGRESS/EGRESS PAD

NOT TO SCALE

EROSION CONTROL PLAN

SCALE: 1" = 200'

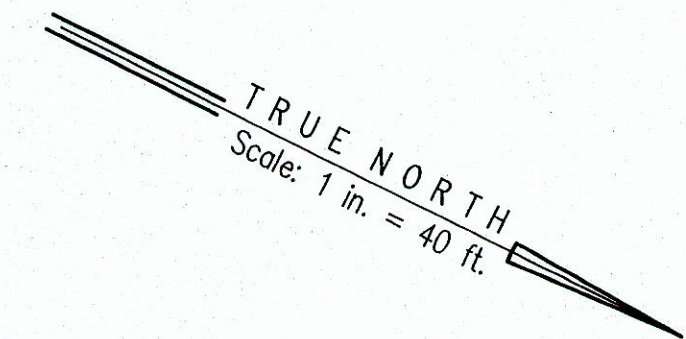


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/08

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
5/11/07	N.I.C.E.P.		
Community Planning and Engineering, Inc. Engineering Design Construction Management Infrastructure Planning 1100 Alakea Street, Sixth Floor Honolulu, Hawaii			
EAST KAPOLEI OFFSITE TRUNK SEWER (DPP SUBD. FILE NO. 2005/SUB-) HONOLULU, EWA, OAHU, HAWAII OWNER & DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS TAX MAP KEYS: 9-1-16 : Por. 27, 31, Por. 108, 109 9-1-69 : Por. 1			
EROSION CONTROL PLAN			
DRAWN BY: SWE	ENGINEER: DKN	CHECKED BY: CMS	APPROVED:

FUTURE DHHL EAST KAPOLEI I DEVELOPMENT

TMK: 9-1-16: POR. 108
LOT 8861-C-1-C
OWNER: STATE OF HAWAII



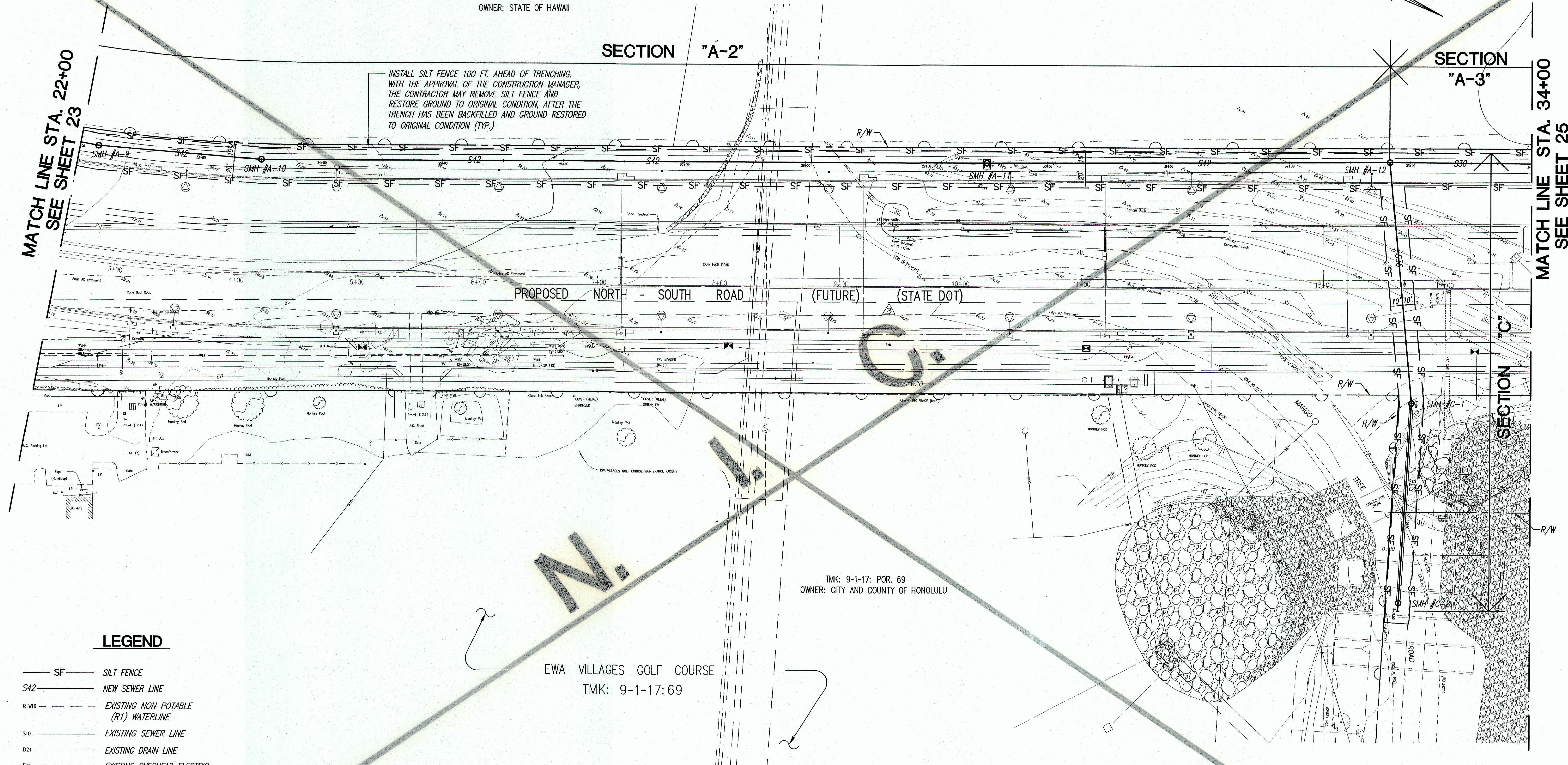
SECTION "A-2"

SECTION "A-3"

MATCH LINE STA. 22+00
SEE SHEET 23

MATCH LINE STA. 34+00
SEE SHEET 25

INSTALL SILT FENCE 100 FT. AHEAD OF TRENCHING.
WITH THE APPROVAL OF THE CONSTRUCTION MANAGER,
THE CONTRACTOR MAY REMOVE SILT FENCE AND
RESTORE GROUND TO ORIGINAL CONDITION, AFTER THE
TRENCH HAS BEEN BACKFILLED AND GROUND RESTORED
TO ORIGINAL CONDITION (TYP.)



LEGEND

- SF — SILT FENCE
- S42 — NEW SEWER LINE
- R1W16 — EXISTING NON POTABLE (R1) WATERLINE
- S10 — EXISTING SEWER LINE
- D24 — EXISTING DRAIN LINE
- Ech — EXISTING OVERHEAD ELECTRIC
- x 50.63 — EXISTING SPOT ELEVATION
- EP OR PP — EXISTING ELECTRIC, POWER, OR TELEPHONE POLE

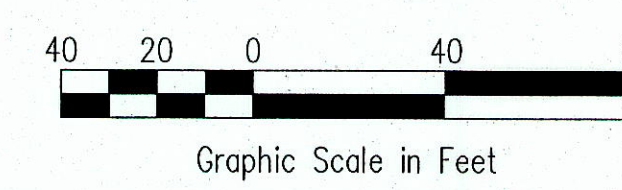
EWA VILLAGES GOLF COURSE
TMK: 9-1-17:69

TMK: 9-1-17: POR. 69
OWNER: CITY AND COUNTY OF HONOLULU

EROSION CONTROL PLAN SCALE: 1"=40'



C. Michael Street
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.
LICENSE EXPIRATION DATE: 04/30/08



5/11/07 N.I.C. ECP.			
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
Community Planning and Engineering, Inc. Engineering Design Construction Management Infrastructure Planning 1100 Alakea Street, Sixth Floor Honolulu, Hawaii			
EAST KAPOLEI OFFSITE TRUNK SEWER (DPP SUBD. FILE NO. 2006/SUB-308) HONOLULU, EWA, OAHU, HAWAII OWNER & DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS TAX MAP KEYS: 9-1-16 : Por. 27, 31, Por. 108, 109 9-1-69 : Por. 1			
EROSION CONTROL PLAN			
DRAWN BY: MFN, LT	ENGINEER: DSK	CHECKED BY: CMS	
APPROVED:			

MATCH LINE STA. 34+00
SEE SHEET 24

FUTURE DHHL EAST KAPOLEI DEVELOPMENT

SECTION "A-3"

TRUE NORTH
Scale: 1 in. = 40 ft.

INSTALL SILT FENCE 100 FT. AHEAD OF TRENCHING.
WITH THE APPROVAL OF THE CONSTRUCTION MANAGER,
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TRENCH HAS BEEN BACKFILLED AND GROUND RESTORED
TO ORIGINAL CONDITION (TYP.)

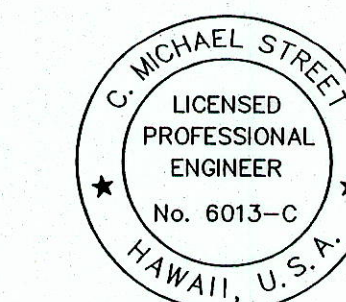
PROPOSED NORTH SOUTH ROAD
(FUTURE)
(STATE DOT)

MATCH LINE STA. 47+00
SEE SHEET 26

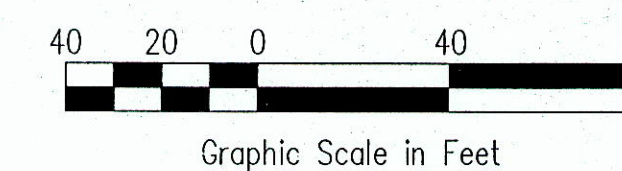
LEGEND

- SF — SILT FENCE
- S42 — NEW SEWER LINE
- R1W16 — EXISTING NON POTABLE (R1) WATERLINE
- S10 — EXISTING SEWER LINE
- D24 — EXISTING DRAIN LINE
- Ech — EXISTING OVERHEAD ELECTRIC
- x 50.63 — EXISTING SPOT ELEVATION
- EP OR PP — EXISTING ELECTRIC, POWER, OR TELEPHONE POLE

EROSION CONTROL PLAN
SCALE: 1"=40'



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CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.
LICENSE EXPIRATION DATE: 04/30/08



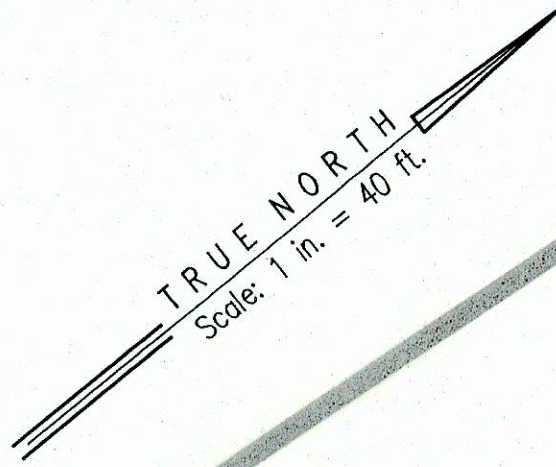
5/11/07 A.N.C. ECP	
REVISION DATE	DESCRIPTION
Community Planning and Engineering, Inc. Engineering Design Construction Management Infrastructure Planning 1100 Alakea Street, Sixth Floor Honolulu, Hawaii	
EAST KAPOLEI OFFSITE TRUNK SEWER (DPP SUBD. FILE NO. 2006/SUB-308) HONOLULU, EWA, OAHU, HAWAII OWNER & DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS TAX MAP KEYS: 9-1-16 : Por. 27, 31, Por. 108, 109 9-1-69 : Por. 1	
EROSION CONTROL PLAN	
DRAWN BY: MFM, LT	ENGINEER: DSK
CHECKED BY: CMS	
APPROVED:	

FUTURE DHHL EAST KAPOLEI I DEVELOPMENT

INSTALL SILT FENCE 100 FT. AHEAD OF TRENCHING.
WITH THE APPROVAL OF THE CONSTRUCTION MANAGER,
THE CONTRACTOR MAY REMOVE SILT FENCE AND
RESTORE GROUND TO ORIGINAL CONDITION, AFTER THE
TRENCH HAS BEEN BACKFILLED AND GROUND RESTORED
TO ORIGINAL CONDITION (TYP.)

SECTION "A-4"

SECTION "A-3"



MATCH LINE SEE SHEET STA. 47+00

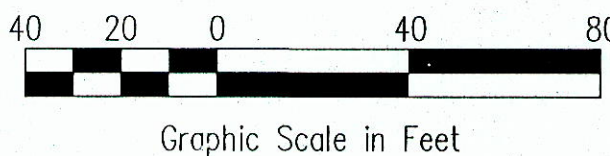
PROPOSED NORTH - SOUTH ROAD (FUTURE) (STATE DOT)

LEGEND

- SF — SILT FENCE
- S42 — NEW SEWER LINE
- R1W6 — EXISTING NON POTABLE (R1) WATERLINE
- S10 — EXISTING SEWER LINE
- D24 — EXISTING DRAIN LINE
- Eoh — EXISTING OVERHEAD ELECTRIC
- x 50.63 — EXISTING SPOT ELEVATION
- EP OR PP — EXISTING ELECTRIC, POWER, OR TELEPHONE POLE

EROSION CONTROL PLAN

SCALE: 1"=40'



C. Michael Street
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.
LICENSE EXPIRATION DATE: 04/30/08

5/11/07	N.I.C. ECP		
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
5/8/06	Community Planning and Engineering, Inc. Engineering Design Construction Management Infrastructure Planning 1100 Alakea Street, Sixth Floor Honolulu, Hawaii		
EAST KAPOLEI OFFSITE TRUNK SEWER (DPP SUBD. FILE NO. 2006/SUB-308) HONOLULU, EWA, OAHU, HAWAII OWNER & DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS TAX MAP KEYS: 9-1-16 : Por. 27, 31, Por. 108, 109 9-1-69 : Por. 1			
EROSION CONTROL PLAN			
DRAWN BY: MFN, LT	ENGINEER: DSK	CHECKED BY: GMS	
APPROVED:			