MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII TMK: (2) 2-4-002: 007 AND (2) 2-4-002: 009
DAGS JOB NO. 15-14-7509
FAI NO. HI-12-31

FOR THE

DEPARTMENT OF DEFENSE
OFFICE OF VETERANS SERVICES
STATE OF HAWAII

AND THE

DEPARTMENT OF ACCOUNTING & GENERAL SERVICES
PUBLIC WORKS DIVISION
STATE OF HAWAII

PROPOSED EXPANSION

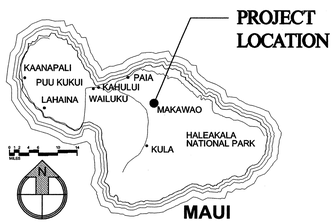
DESCRIPTION	QUANTITY
SITE ACREAGE	17 ACRES
EXPANSION ACREAGE	3.64 ACRES
MAINTENANCE YARD	10,400 SQ. FT.
MAINTENANCE BUILDING	1,175 SQ. FT.
PRECAST CRYPTS	500
INGROUND CREMAINS	327

PROJECT DATA

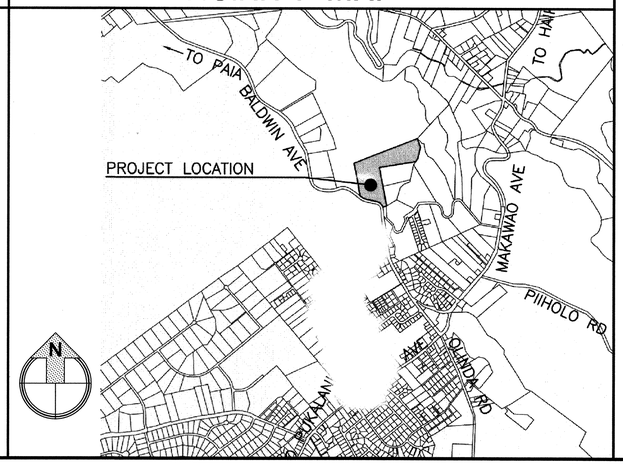
TMK: (2) 2-4-002 : 007 AND (2) 2-4-002 : 009
ZONING: AGRICULTURAL
ADDRESS: 3355 BALDWIN AVE. MAKAWAO, MAUI, HAWAII, U.S.A. 96768
PERMITTED / PROPOSED USES: CEMETERY
SMA/ SHORELINE: NO
HISTORIC SITE REGISTER: NO
EXISTING PARKING: TOTAL 9 STALLS, INCLUDING 1 ACCESSIBLE

BUILDING CODES: 2006 INTERNATIONAL BUILDING CODE (IBC) WITH STATE AMENDMENTS:
PROPOSED MAINTENANCE BUILDING: 1,175 SF, SINGLE STORY
CONSTRUCTION TYPE: V-B
ALLOWED FLOOR AREA: 5,500 SF, SINGLE STORY
PROPOSED FLOOR AREA: 1,175 SF, SINGLE STORY
OCCUPANCY: GROUP U

LOCATION MAP N.T.S.



VICINITY MAP N.T.S.



APPROVED BY:

ADJUTANT GENERAL
DEPARTMENT OF DEFENSE
STATE OF HAWAII — DATE: 29 Sep 14

DIRECTOR, OFFICE OF VETERANS SERVICES,
DEPARTMENT OF DEFENSE
STATE OF HAWAII — DATE: 29 Sep 14

CHIEF ENGINEERING OFFICER,
DEPARTMENT OF DEFENSE
STATE OF HAWAII — DATE: 29SEP14

COMPTROLLER,
DEPARTMENT OF ACCOUNTING & GENERAL SERVICES
STATE OF HAWAII — DATE: 9/3/14

PUBLIC WORKS ADMINISTRATOR,
DEPARTMENT OF ACCOUNTING & GENERAL SERVICES
STATE OF HAWAII — DATE: 9/30/14

G.I.

CONSULTANTS

ARCHITECT
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1580 MAKALOA STREET, SUITE 1100, HONOLULU, HI 96814
(808) 949-0044

CIVIL ENGINEER
WARREN S. UNEMORI ENGINEERING, INC.
2145 WELLS STREET, SUITE 403, WAILUKU, MAUI, HI 96793
(808) 242-4403

LANDSCAPE ARCHITECT
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2153 NORTH KING STREET, SUITE 200, HONOLULU, HI 96819
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MKE ASSOCIATES LLC
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ELECTRICAL ENGINEERS
ELECTECH HI, INC.
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MECHANICAL ENGINEERS
NOTKIN HAWAII
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(808) 941-6600

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DUANE T. HAWADA
LICENSED PROFESSIONAL ARCHITECT
No. 5229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TITLE SHEET

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: NN	CHECKED BY: NN	15-14-7509	T-1
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 1 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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5	C-3	SITE PLAN: NORTH
6	C-4	SITE PLAN: SOUTH
7	C-5	SITE PLAN: KEE ROAD
8	C-6	GENERAL GRADING PLAN
9	C-7	DETAILED GRADING PLAN: NORTHWEST
10	C-8	DETAILED GRADING PLAN: NORTH
11	C-9	DETAILED GRADING PLAN: DRIVEWAY "A"
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		ELECTRICAL PLAN, FLOOD LIGHT INSTALLATION DETAIL
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GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BUILDING AND SITE CLEANING, AND PROVIDE ANY AND ALL SAFETY PROVISIONS TO ENSURE EMPLOYEES AND PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD OF THIS PROJECT.

2. EXCEPT FOR MATERIAL TO BE TURNED OVER TO GOVERNMENT, THE GENERAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIAL RESULTING FROM DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

3. THE CONTRACTOR SHALL PROTECT FROM DAMAGE EXISTING IMPROVEMENTS, ADJACENT PROPERTIES AND BUILDINGS, WHICH ARE NOT NOTED FOR REMOVAL OR MODIFICATION. IF DAMAGE OCCURS, RESTORE TO ORIGINAL CONDITION AT NO COST TO THE STATE. THE CONTRACTOR IS ALSO RESPONSIBLE TO RESTORE THE GROUNDS (GRASSING), REPLACING IRRIGATION LINES & SPRINKILER HEADS, REPLACE AND/OR REPAIR DAMAGED CONCRETE WALKWAYS WHERE IT IS USED FOR PARKING AND STAGING.

4. THE CONTRACTOR SHALL VISIT THE SITE, COMPARE THE DRAWINGS AND SPECIFICATIONS AND INFORM HIMSELF OF ALL CONDITIONS IN ORDER TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.

5. ALL MATERIALS FURNISHED BY THE GENERAL CONTRACTOR SHALL BE NEW AND FREE FROM DEFECTS.

6. CONDITIONS OF WORK: THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE DRAWINGS WITH ACTUAL FIELD MEASUREMENTS. EXAMINE THE JOB SITE, VERIFY ALL FIELD CONDITIONS AND PROVIDE THE LABOR AND MATERIALS REQUIRED TO COMPLETE THE REQUIRED WORK. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER THAT IS OF ACCEPTABLE WORKMANSHIP OF THE RESPECTIVE TRADES. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER PRIOR TO THE COMMENCEMENT OF WORK, IF THERE ARE ANY DIMENSIONAL DISCREPANCIES, OR IF THERE ARE ANY CONDITIONS THAT EXIST WHICH MAY PREVENT THE CONTRACTOR'S PERFORMANCE OF WORK, AND/OR OF ANY AND ALL ADDITIONAL WORK THAT MAY BE REQUIRED AS A RESULT OF THE OBSERVED CONDITIONS.

7. COMPLETION OF THE WORK: THE CONTRACTOR SHALL IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE CONTRACTING OFFICER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO SAFETY PRECAUTIONS.

8. OMISSION: OMISSIONS OF THE DRAWINGS, OR SPECIFICATIONS, OR THE OMISSIONS OF DETAILS OF WORK WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED, OR INCORRECTLY DESCRIBED DETAILS OF THE WORK, BUT SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER, VERBALLY OF SUCH OMISSIONS AND PROVIDE A WRITTEN STATEMENT OF THE OMISSIONS WITHIN FIVE (5) WORKING DAYS OF VERBAL NOTIFICATIONS.

9. INTENT OF THE DRAWINGS: THE DRAWINGS ARE INTENDED TO DEFINE AND ESTABLISH THE PHYSICAL REQUIREMENTS OF THE PROJECT, I.E., THE DESIGN, LOCATIONS AND DIMENSIONS OF THE WORK, BASED ON RECOGNIZED STANDARDS, EVEN IF NOT ACTUALLY SHOWN, BUT REASONABLY INFERRED. ALL WORK SHOWN IS "NEW" UNLESS OTHERWISE NOTED AS "EXISTING." THE CONTRACTOR SHALL REVIEW AND VERIFY THE INFORMATION ON ALL DRAWINGS BEFORE PERFORMING THE WORK AND NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL SUBCONTRACTORS TO ACHIEVE THE DESIGN INTENT AND SPECIFIED REQUIREMENTS AND IS RESPONSIBLE TO COMPLETE ANY AND ALL WORK ASSOCIATED WITH SUCH COORDINATION.

ABBREVIATIONS

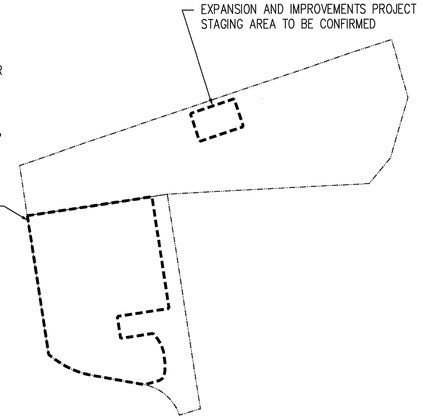
&	AND
∠	ANGLE
@	AT
X	BY
℄	CENTERLINE
ø	DIAMETER OR ROUND
(E)	EXISTING
(N)	NEW
d	PENNY (NAIL SIZE)
%	PERCENT
#	POUND OR NUMBER
A.B.	ANCHOR BOLT
ABV.	ABOVE
A.C.	ASPHALTIC CONCRETE
ACOUS.	ACOUTICAL
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
AGGR.	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BM.	BEAM
BEDRM.	BEDROOM
BD.	BOARD
BOT.	BOTTOM
BLKG.	BLOCKING
BLDG.	BUILDING
CAB.	CABINET
CEM.	CEMENT
C.T.	CERAMIC TILE
CJ	COLD OR CONSTRUCTION JOINT
CJ	CONTROL JOINT
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
C.M.	CHANGE OF MATERIAL
C.M.U.	CONCRETE MASONRY UNIT
CNTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDITION
CONN.	CONNECTION
CONT.	CONTINUOUS
CPT.	CARPET
CTBB	CEMENT TILE BACKER BD.
CTSK.	COUNTERSUNK
C.F.C.I.	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
ø	DIAMETER
D	DRYER
DBL.	DOUBLE
DET.	DETAIL
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPOSAL/DISPENSER
DN.	DOWN
DR.	DOOR
DRS.	DOORS
D.S.	DOWNSPOUT
DW.	DISHWASHER
DWG.	DRAWING
EA.	EACH
E.F.S.	EXTERIOR FINISH SYSTEM (SYNTHETIC STUCCO)
E.J.	EXPANSION JOINT
ELECT.	ELECTRICAL
ELEV.	ELEVATION
E.W.C.	ELECTRIC WATER COOLER
ENCL.	ENCLOSURE
E.P.S.	EXPANDED POLYSTYRENE (FOAM BOARD)
EQ.	EQUAL
EXH.	EXHAUST
E.W.	EYE WASH
EWP.	EXPANSION
(E)	EXISTING
EXIST.	EXISTING
EXT.	EXTERIOR
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FIN.	FINISH
FLR.	FLOOR
FLASH'G.	FLASHING
F.O.F.	FACE OF FRAMING
F.O.S.	FACE OF STUDS
F.R.P.	FIBERGLASS REINFORCED POLYESTER
F.S.	FREE STANDING
FT.	FOOT OR FEET
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP. BD.	GYPSUM BOARD
GFCI OR GFIC	GROUND FAULT INTERUPTOR CIRCUIT
G.F.C.I.	GOVERNMENT FURNISHED/ CONTRACTOR INSTALLED
G.F.G.I.	GOVERNMENT FURNISHED/ GOVERNMENT INSTALLED
G.F.R.C.	GLASS FIBER REINFORCED CEMENT
HARD BD.	HARD BOARD
H.C.	HANDICAP
H.M.	HOLLOW METAL
HDWD.	HARDWOOD
HDWE.	HARDWARE
HORIZ.	HORIZONTAL
HR.	HOUR
HS.	HAND SINK
HT.	HEIGHT
H.	HIGH
I.D.	INSIDE DIAMETER (DIM.)
INCL.	INCLUSIVE, INCLUDED, OR INCLUDING
INT.	INTERIOR
INSUL.	INSULATION
JT.	JOINT
KIT.	KITCHEN
LAM.	LAMINATE(D)
LAV.	LAVATORY
LIN.	LINEN
LOUV.	LOUVERED
LT.	LIGHT
LTG.	LIGHTING
L.T.	LAUNDRY TRAY
L.W.F.	LAMINATED WOOD FLOORING
MAX.	MAXIMUM
MFG.	MANUFACTURING
M.C.	MEDICINE CABINET
MED. CAB.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET.	METAL
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTG.	MOUNTING
MUL.	MULLION
N.	NORTH
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
N.T.S.	NOT TO SCALE
OBS.	OBSCURE
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
P.I.P.	POURED-IN-PLACE
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLBG.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
PREFIN.	PREFINISHED
PR.	PAIR
PT.	POINT
PTN.	PARTITION
Q.T.	QUARRY TILE
R.	RISER
RAD.	RADIUS
REC.	RECESSED
REFR.	REFRIGERATOR
REINF.	REINFORCED OR REINFORCING
RESIL.	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
S.C.	SOLID CORE
SCHED.	SCHEDULE
SCRN.	SCREEN
SECT.	SECTION
S.F.	SQUARE FEET
SH.	SHELF
SHR.	SHOWER
SHT.	SHEET
SHT'G.	SHEATHING
SIM.	SIMILAR
SING.	SINGLE
SL.	SLOPE
SLDG.	SLIDING
SMH	SEWER MANHOLE
SND	SANITARY NAPKIN DISPENSER
S.O.G.	SLAB ON GRADE
SP.	SPACE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.F.	SQUARE FEET
SST.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
SUSP.	SUSPENDED
T.	TREAD
T.B.	TOWEL BAR
T.C.	TOP OF CURB
TEW	TOP OF EXISTING WALL
TF	TOP OF FENCE
T. & G.	TONGUE & GROOVE
THK.	THICK
THR.	THRESHOLD
T.P.H.	TOILET PAPER HOLDER
TR	TRIM
T.W.	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U/S	UNDERSIDE
VERT.	VERTICAL
VIF	VERIFY IN FIELD
V.C.T.	VINYL COMPOSITION TILE
V.T.R.	VENT THRU ROOF
W.	WASHER
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.H.	WATER HEATER
W.O.	WHERE OCCURS
WP.	WATERPROOF
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH

NOTE:

SEPARATE PROJECT MAUI VETERANS CEMETERY GRAVESITE RESTORATION FOR VETERANS CEMETERY STATEWIDE. JOB NO. CA-1208-C1. FAI NO. HI-10-27, REPLACING GRASS IN EXISTING VETERANS CEMETERY AREA AND CLEAN, READJUST AND REALIGN EXISTING HEADSTONES.

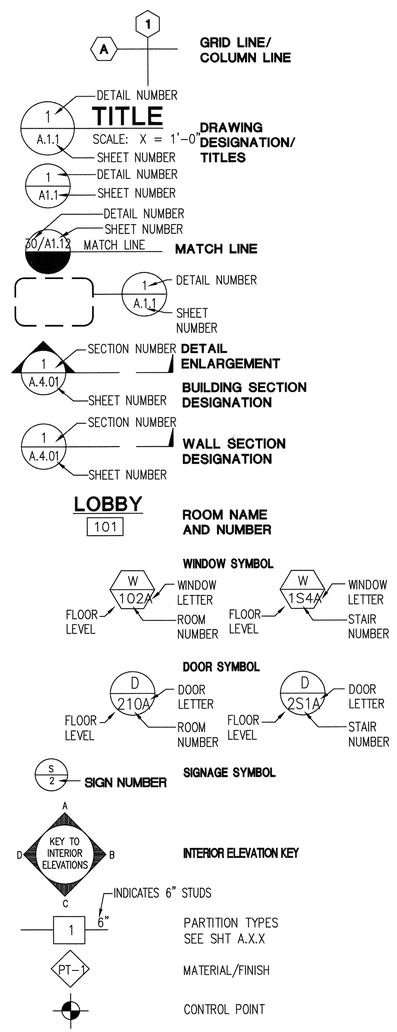
APRROX. LIMIT OF WORK "UNDER OTHER CONTRACT", CONTRACTOR TO COORDINATE LIMIT OF WORK AND COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT.

SEE CIVIL FOR LIMITS OF WORK FOR THE MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS PROJECT.



1 / T-2 **WORK UNDER OTHER CONTRACTS**
SCALE: 1" = 250'-0"

SYMBOLS



REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DIANE T. HAMADA LICENSED PROFESSIONAL ARCHITECT No. 5229 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DRAWING INDEX, GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: NN	CHECKED BY: NN	15-14-7509	T-2
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 2 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

Ext'g. Dirt Road

657'±

251°37'30"

1,369.86

END CATTLE FENCE

4'-6" HIGH 5-WIRE CATTLE FENCE WITH METAL POSTS

T.M.K. 2-4-03 : 20
Robert & Myra Carvalho, Trust
(Owner)

TRUE NORTH
SCALE: 1 IN. = 60 FT.

345.09'

269.00

214.99

162.5'

117.93

39.29'

PHASE 1 DETENTION BASIN

DRIVEWAY "B"

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

PRIORITY BURIAL SECTION (TO BE CONSTRUCTED FIRST)

PHASE 1 BURIAL SECTION

WILLIAM A. MELANE

24'

24'

WATER TANK

BOR-2 (SEE ARCH. SHT. A-9)

BOR-3 (SEE ARCH. SHT. A-9)

MAINTENANCE YARD

BOR-1 (SEE ARCH. SHT. A-9)

Proposed Lot "D"
Area = 17.000 Acs.

LAND COMMISSION AWARD 11216 APANA 27 TO M. KEKAUONOHI

ROYAL PATENT 7512, GRANT 64

673.96

87°00'35"

706.18

MAINTENANCE BUILDING

END CATTLE FENCE

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

29'

479.12

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

T.M.K. 2-4-03 : 19
Gladys Nobue O'Conner
(Owner)

ROYAL PATENT GRANT 64

Ext'g Gravestones (typ.)

MAUI VETERANS CEMETERY

171°31'

351°31'

END OF 6 FT. HIGH PERIMETER CHAIN LINK FENCE, TIE-IN TO PROPOSED ORNAMENTAL FENCE (SEE ARCH. SHEETS A-1 & A-5)

To Pala

TIE-IN TO PROPOSED ORNAMENTAL FENCE (SEE ARCH. SHEETS A-1 & A-5)

128°00'
20.41

R=311.00'

114.11'

148.34'

Ewa=100°22'

184.90

137°13'15"

BALDWIN AVENUE

Ext'g. Bldg.

Ext'g. Committal Shelter

Ext'g. Bldg.

Ext'g. Fire Hydrant

Ext'g. Columbarium

DRIVEWAY "A"

24'

BOR-4 (SEE ARCH. SHT. A-9)

T.M.K. 2-4-02 : 01
Makawao Cemetery Association
(Owners)

MAKAWAO CEMETERY

285.20

VISITOR PARKING LOT

15'

351°19"

Ext'g. Edge of Pavement

ENTRY SIGN MONUMENT

Approx. Location of Ext'g 8" Waterline

163.92

25°04'30"

R=159.81

73'15'

Ewa=

76.94

PROPERTY PIN
3,201.35 N
6,663.86 W
"PIIHOLO"

T.M.K. 2-4-03 : 17
Mark and Nancy Townsend
(Owners)

To Makawao

KEE ROAD

FENCE INSTALLATION NOTES:

1. CHAIN LINK FENCE SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN D-02 "CHAIN LINK FENCE WITH TOP RAIL."
2. CHAIN LINK FABRIC SHALL BE THERMALLY FUSED AND BONDED WITH GREEN PVC COATING.
3. ALL PIPES, FITTINGS, BARS, CLAMPS, AND POSTS SHALL BE THERMALLY FUSED AND BONDED WITH GREEN PVC COATING.
4. 5-WIRE CATTLE FENCE SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN D-04 "WIRE FENCE WITH METAL POSTS."

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR
1		Added Second Gate		5/15/14	

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

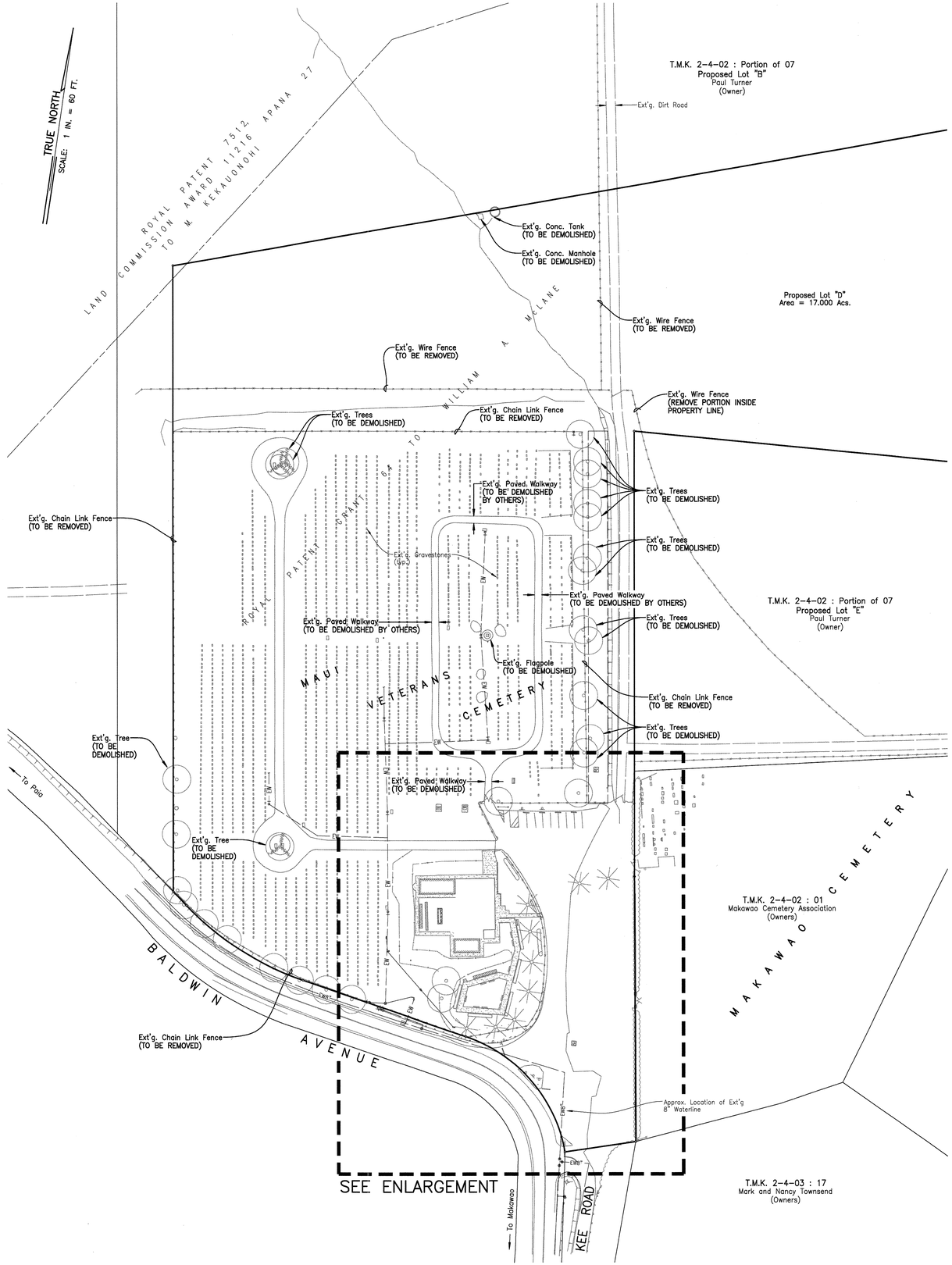
COUNTY OF MAUI, HAWAII

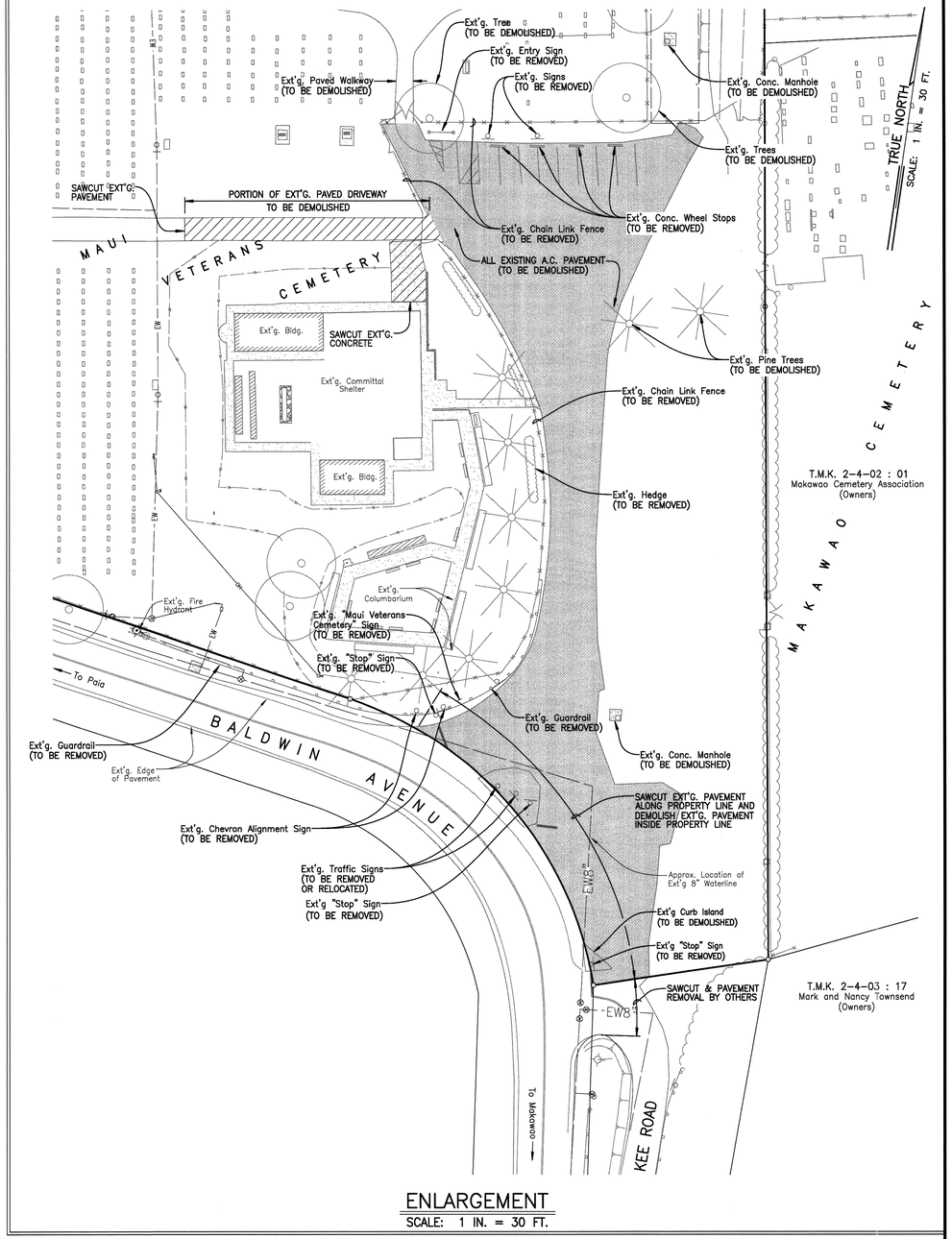
GENERAL PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-1
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 3 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 60 FT.			

V:\Projects\12proj\12056 - Maui Veterans Cemetery\dwg\conplans\gen-plan-00.dwg

FILE_____DRAWER_____FOLDER_____





ENLARGEMENT
SCALE: 1 IN. = 30 FT.

NOTES:

1. DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN ACCESS TO PARKING LOT FOR PATRONS OF MAUI VETERANS CEMETERY AND MAKAWAO CEMETERY.
2. CONTRACTOR SHALL MINIMIZE PARKING LOT SHUT DOWN TIME DURING PAVING.
3. CONTRACTOR SHALL COORDINATE SHUT DOWN OF PARKING LOT WITH COUNTY OF MAUI, DEPARTMENT OF PUBLIC WORKS.

SALVAGED MATERIALS:

1. MAUI COUNTY DEPT. OF PUBLIC WORKS HIGHWAYS DIVISION SHALL IDENTIFY FOR THE CONTRACTOR ANY REUSABLE MATERIALS SUCH AS CHAIN LINK FENCE MESH, FENCE POSTS, TOP RAILS, METAL BEAM GUARDRAIL SECTIONS, ETC., THAT IT WANTS TO SALVAGE PRIOR TO THE START OF DEMOLITION.
2. CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY MATERIALS DESIGNATED FOR SALVAGE AT AN ON-SITE LOCATION TO BE SPECIFIED BY DPW HIGHWAYS DIVISION.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

DEMOLITION PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-2
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 4 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____

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TRUE NORTH
SCALE: 1 IN. = 20 FT.

Ext'g. Barbed Wire Fence

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

Ext'g. Dirt Road

255'-9"

END CATTLE FENCE

4'-6" HIGH 5-WIRE CATTLE FENCE WITH METAL POSTS

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

Ext'g. Flow Line of Swale

3 FT. WIDE LOCKING PEDESTRIAN GATE

160'-3"

4 FT. HIGH INTERIOR CHAIN LINK FENCE W/ TOP & BOTTOM RAIL AROUND DRAINAGE BASIN

NO PARKING ON THE GRASS
12" x 18"

6 FT. HIGH CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

20 FT. WIDE LOCKING VEHICLE GATE

16 FT. WIDE LOCKING VEHICLE GATE

Proposed Lot "D"
Area = 17.000 Acs.

WATER TANK

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

28 FT. WIDE LOCKING VEHICLE GATE

MAINTENANCE BUILDING

A.C. PAVEMENT SECTION:
2" A.C. (MIX V)
6" U.T.B.

CONC. CURB

END CATTLE FENCE

4'-6" HIGH 5-WIRE CATTLE FENCE WITH METAL POSTS

Ext'g. Hog Wire Fence

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

INSTALL 2 FT. FROM EDGE PAVEMENT IN CURBED AREAS (TYP.)
INSTALL 6 FT. FROM EDGE PAVEMENT IN NON-CURBED AREAS (TYP.)

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

Ext'g. Gravestones (typ.)

MAUI VETERANS CEMETERY

LOCATION MAP

SCALE: 1 IN. = 300 FT.

TRUE NORTH
PROJECT SITE
TO PAIA
BALDWIN AVENUE
KEE ROAD
TO MAKAWAO
KEE ROAD

FENCE INSTALLATION NOTES:

1. CHAIN LINK FENCE SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN D-02 "CHAIN LINK FENCE WITH TOP RAIL."
2. CHAIN LINK FABRIC SHALL BE THERMALLY FUSED AND BONDED WITH GREEN PVC COATING.
3. ALL PIPES, FITTINGS, BARS, CLAMPS, AND POSTS SHALL BE THERMALLY FUSED AND BONDED WITH GREEN PVC COATING.
4. 5-WIRE CATTLE FENCE SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN D-04 "WIRE FENCE WITH METAL POSTS."

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

SITE PLAN: NORTH

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-3
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 5 OF 80 SHTS.
SCALE: 1 IN. = 20 FT.			

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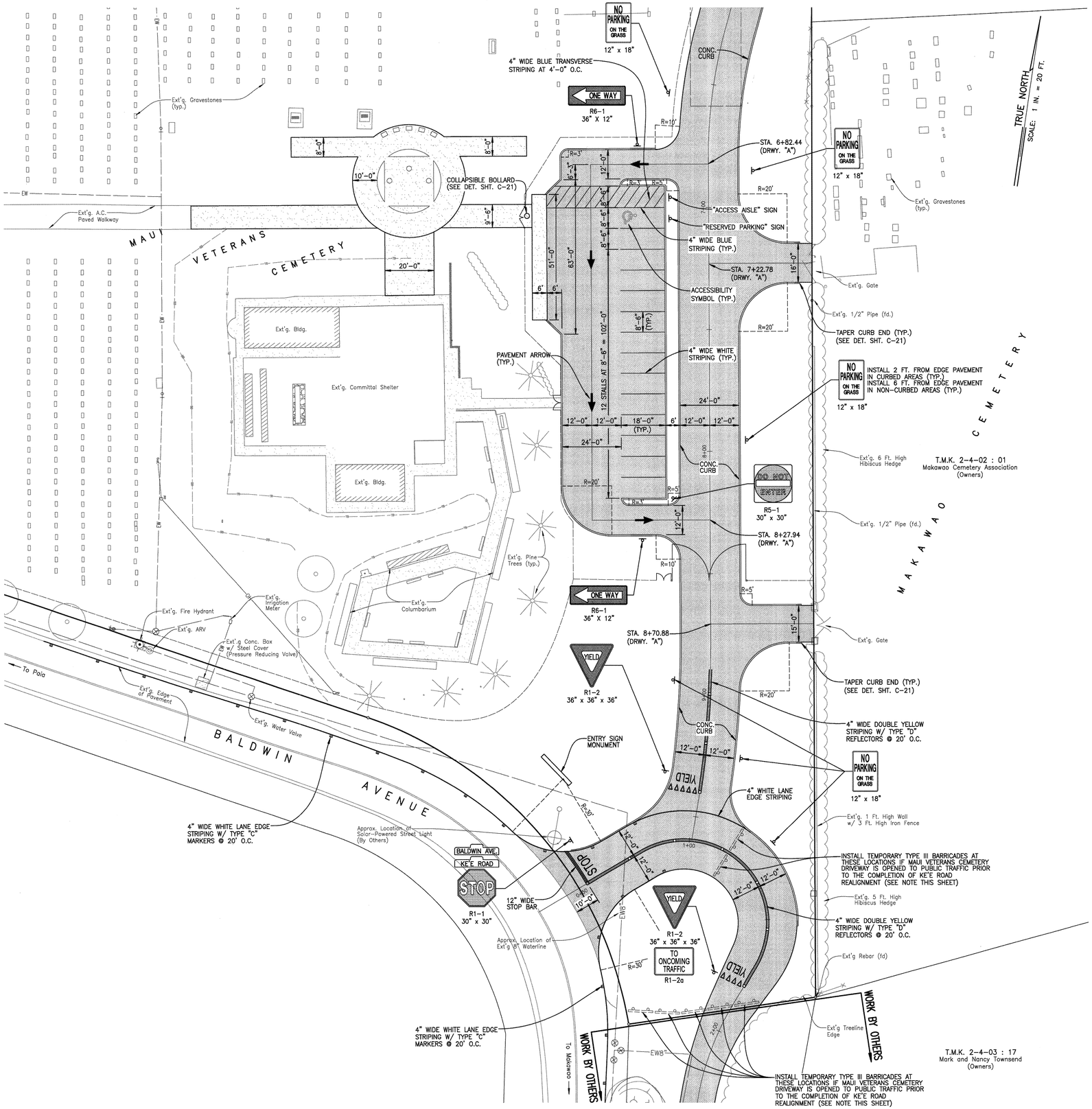

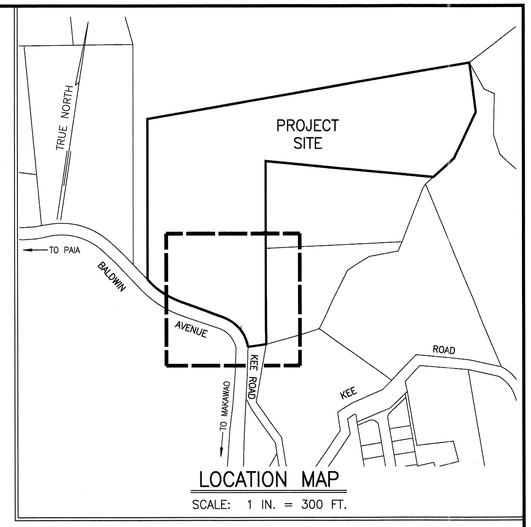

NOTES:

1. TYPE III BARRICADES SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN TE-45 "TYPE III BARRICADE."
2. BARRICADES SHALL BE EQUIPPED WITH AMBER WARNING FLASHERS AT NIGHT.
3. COLLAPSIBLE BOLLARD SHALL BE TRAFFICGUARD SINGLE-POST LOW PROFILE HEAVY DUTY HINGED BOLLARD (LPHDHB) WITH CONCRETE PIER ANCHOR SYSTEM, OR APPROVED EQUAL.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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STATE OF HAWAII
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

SITE PLAN: SOUTH

DESIGN PARTNERS INCORPORATED		JOB NO. 15-14-7509	DRAWING NO. C-4
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 6 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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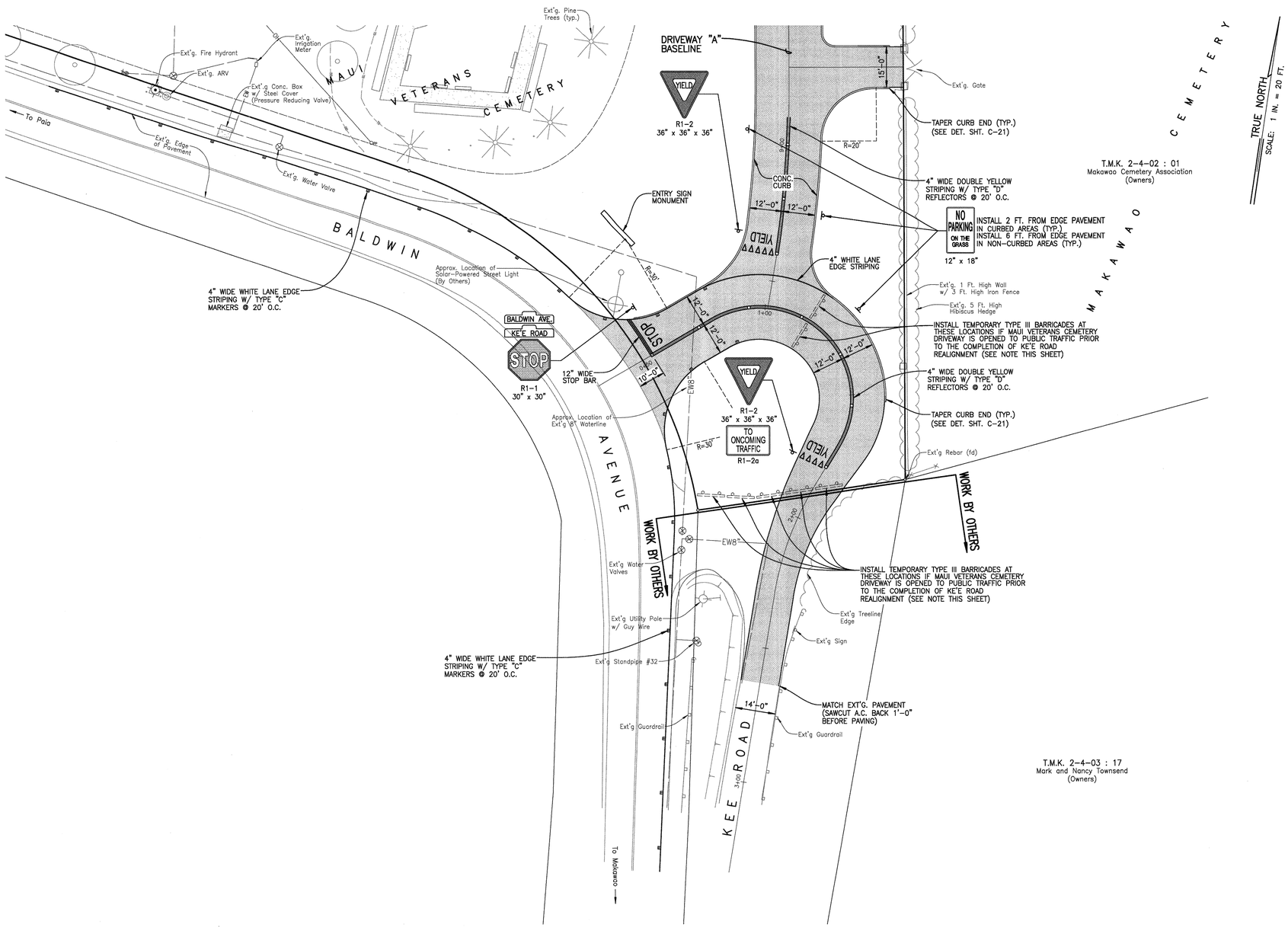

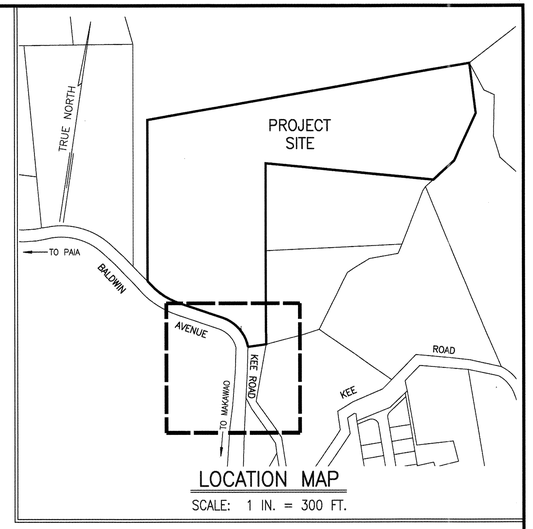

LOCATION MAP
SCALE: 1 IN. = 300 FT.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

SITE PLAN: KEE ROAD

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-5
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 7 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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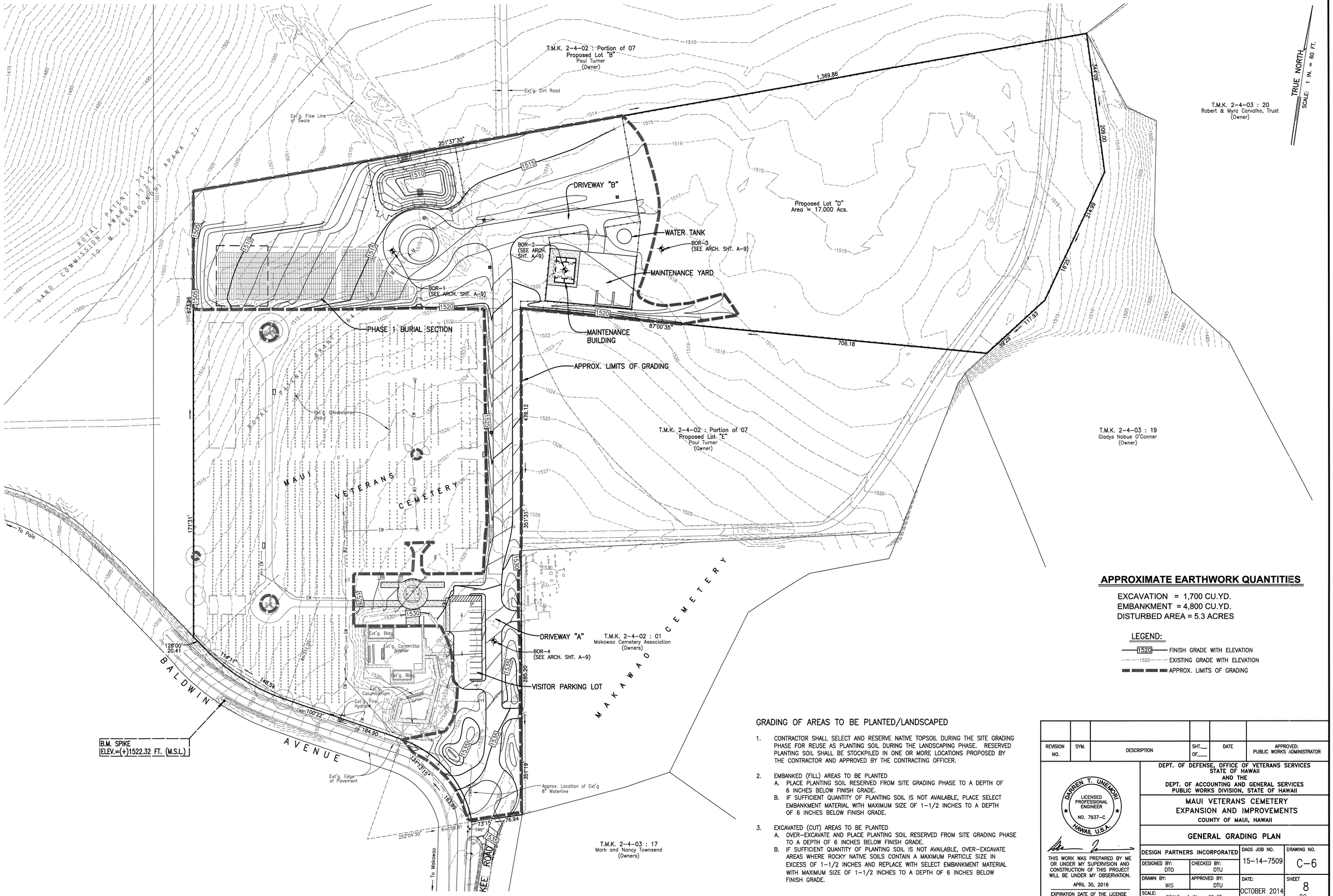

APPROXIMATE EARTHWORK QUANTITIES

EXCAVATION = 1,700 CU.YD.
EMBANKMENT = 4,800 CU.YD.
DISTURBED AREA = 5.3 ACRES

LEGEND:

- 1520 — FINISH GRADE WITH ELEVATION
- --1520-- EXISTING GRADE WITH ELEVATION
- APPROX. LIMITS OF GRADING

GRADING OF AREAS TO BE PLANTED/LANDSCAPED

1. CONTRACTOR SHALL SELECT AND RESERVE NATIVE TOPSOIL DURING THE SITE GRADING PHASE FOR REUSE AS PLANTING SOIL DURING THE LANDSCAPING PHASE. RESERVED PLANTING SOIL SHALL BE STOCKPILED IN ONE OR MORE LOCATIONS PROPOSED BY THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER.
2. EMBANKED (FILL) AREAS TO BE PLANTED
   A. PLACE PLANTING SOIL RESERVED FROM SITE GRADING PHASE TO A DEPTH OF 6 INCHES BELOW FINISH GRADE.
   B. IF SUFFICIENT QUANTITY OF PLANTING SOIL IS NOT AVAILABLE, PLACE SELECT EMBANKMENT MATERIAL WITH MAXIMUM SIZE OF 1-1/2 INCHES TO A DEPTH OF 6 INCHES BELOW FINISH GRADE.
3. EXCAVATED (CUT) AREAS TO BE PLANTED
   A. OVER-EXCAVATE AND PLACE PLANTING SOIL RESERVED FROM SITE GRADING PHASE TO A DEPTH OF 6 INCHES BELOW FINISH GRADE.
   B. IF SUFFICIENT QUANTITY OF PLANTING SOIL IS NOT AVAILABLE, OVER-EXCAVATE AREAS WHERE ROCKY NATIVE SOILS CONTAIN A MAXIMUM PARTICLE SIZE IN EXCESS OF 1-1/2 INCHES AND REPLACE WITH SELECT EMBANKMENT MATERIAL WITH MAXIMUM SIZE OF 1-1/2 INCHES TO A DEPTH OF 6 INCHES BELOW FINISH GRADE.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

GENERAL GRADING PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-6
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 8 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 60 FT.			

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FILE_____ DRAWER_____ FOLDER_____

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

TRUE NORTH
SCALE: 1 IN. = 20 FT.

Ext'g. Flow Line of Swale

APPROX. LIMITS OF GRADING

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

Proposed Lot "D"
Area = 17.000 Acs.

Ramp Down

25'±

250'±

WATERING STATION

BOR-1
(SEE ARCH. SHT. A-9)

154'±

80'±

3% Grade

Ext'g. Hog Wire Fence

1512.8

1513.5

1518.6

1520.6

6 FT. WIDE WALKING PATH

APPROX. LIMITS OF GRADING

Ext'g. Gravestones (typ.)

MAUI VETERANS CEMETERY

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP & BOTTOM RAIL

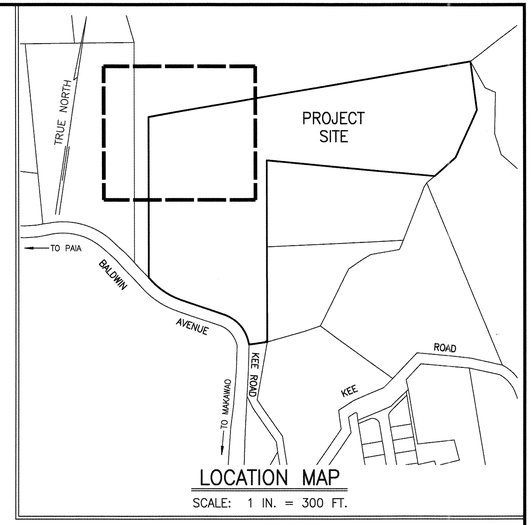
D24"

1+00

2+00

2+03

1+20



LOCATION MAP
SCALE: 1 IN. = 300 FT.

LEGEND:

- 1520 — EXISTING GRADE WITH ELEVATION
- 1520 — FINISH GRADE WITH ELEVATION
- 1519.20 — FINISH GRADE SPOT ELEVATION
- 1523.1 — EXISTING SPOT ELEVATION
- FLOW LINE
- DIRECTION OF FLOW
- TOP OF BANK
- BOTTOM OF BANK
- APPROX. LIMITS OF GRADING

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DETAILED GRADING PLAN: NORTHWEST

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-7
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 9 OF 80 SHTS.
SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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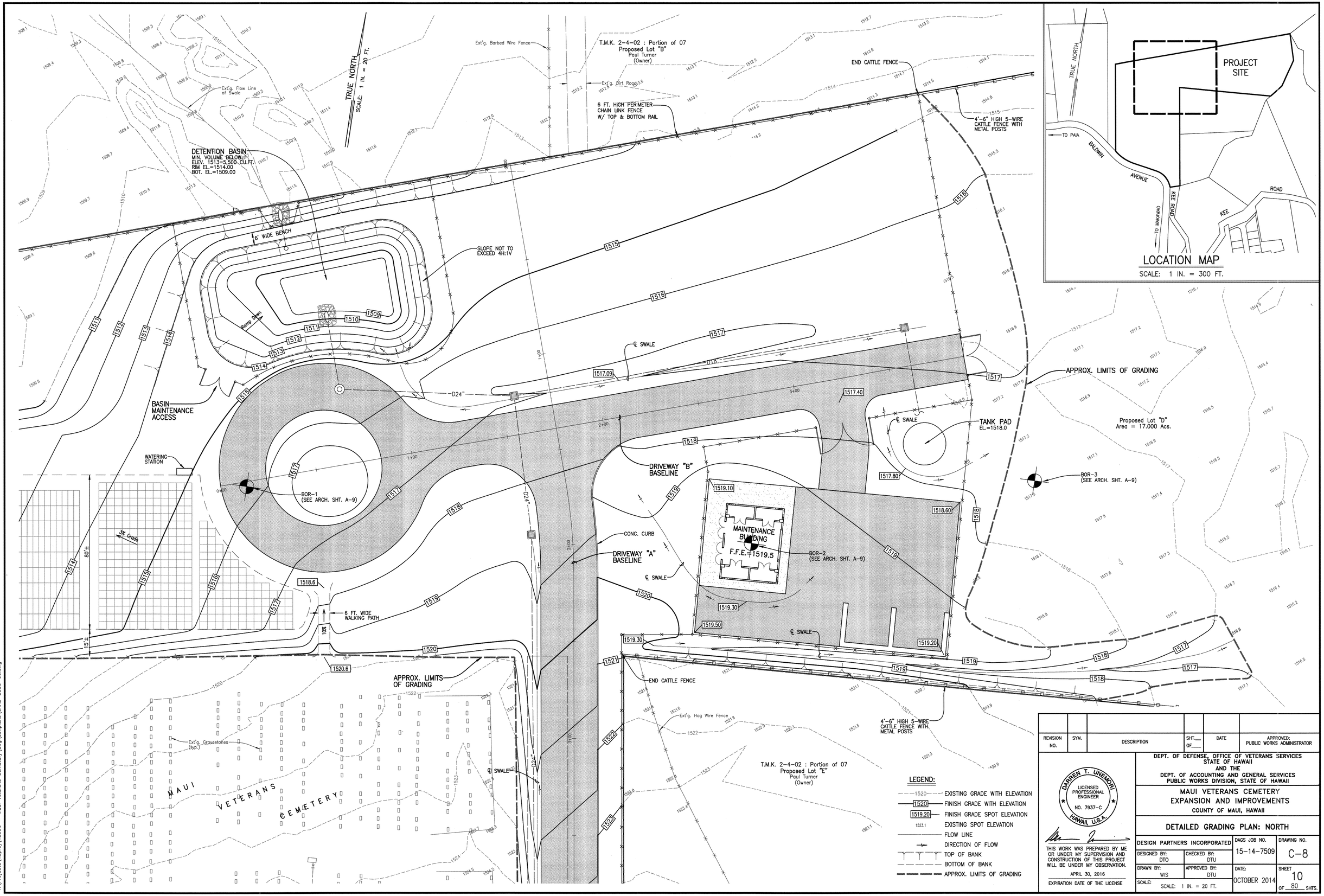

LEGEND:

- 1520 — EXISTING GRADE WITH ELEVATION
- 1520 — FINISH GRADE WITH ELEVATION
- 1519.20 — FINISH GRADE SPOT ELEVATION
- 1523.1 — EXISTING SPOT ELEVATION
- FLOW LINE
- DIRECTION OF FLOW
- TOP OF BANK
- BOTTOM OF BANK
- APPROX. LIMITS OF GRADING

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

DETAILED GRADING PLAN: NORTH

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-8
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 10 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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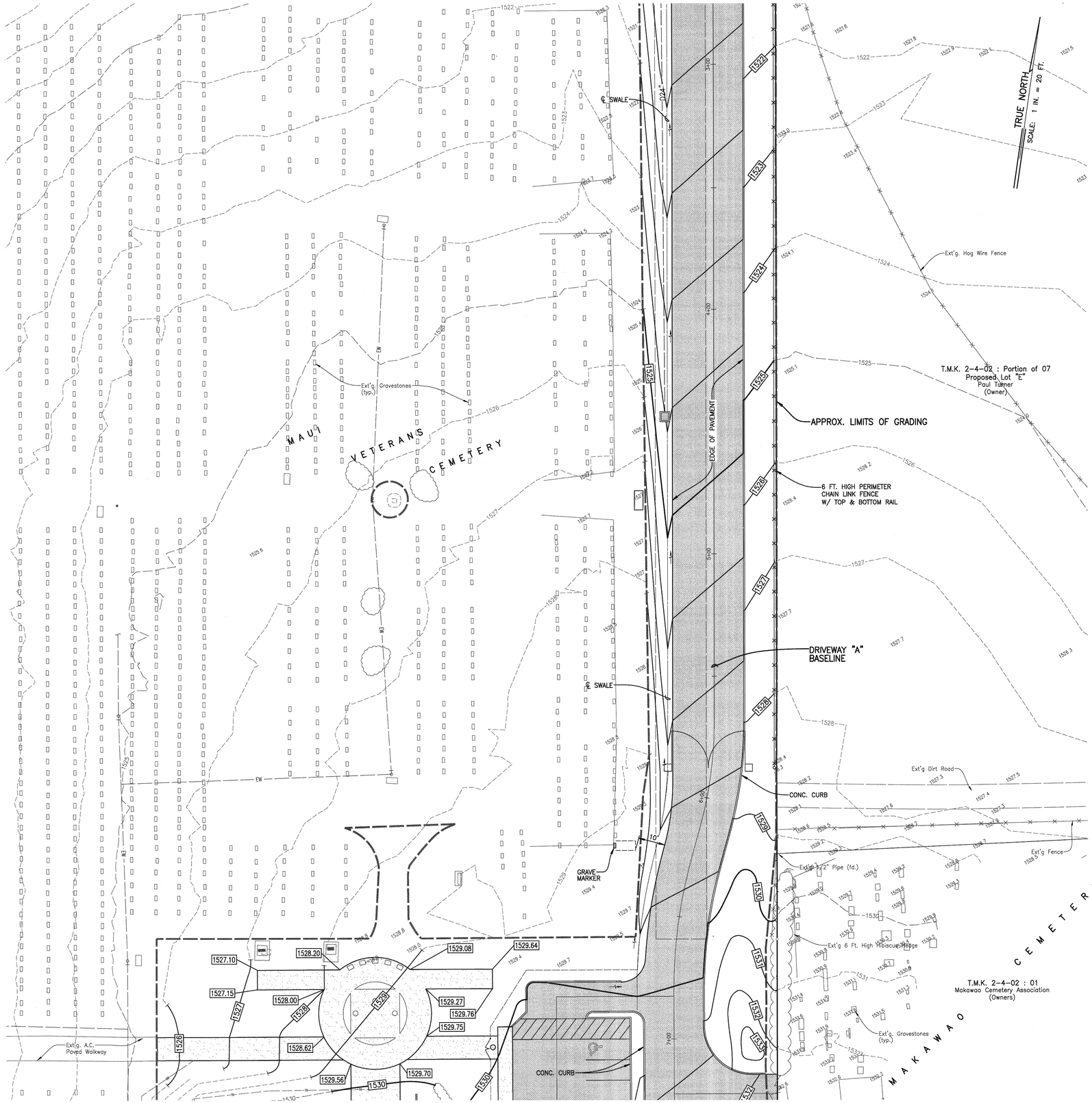

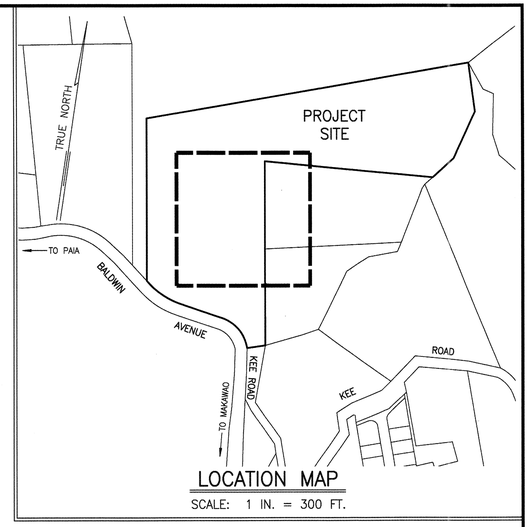

LEGEND:

- 1520 — EXISTING GRADE WITH ELEVATION
- 1520 — FINISH GRADE WITH ELEVATION
- 1519.20 — FINISH GRADE SPOT ELEVATION
- 1523.1 — EXISTING SPOT ELEVATION
- FLOW LINE
- DIRECTION OF FLOW
- TOP OF BANK
- BOTTOM OF BANK
- APPROX. LIMITS OF GRADING

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

DETAILED GRADING PLAN: DRIVEWAY "A"

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-9
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 11 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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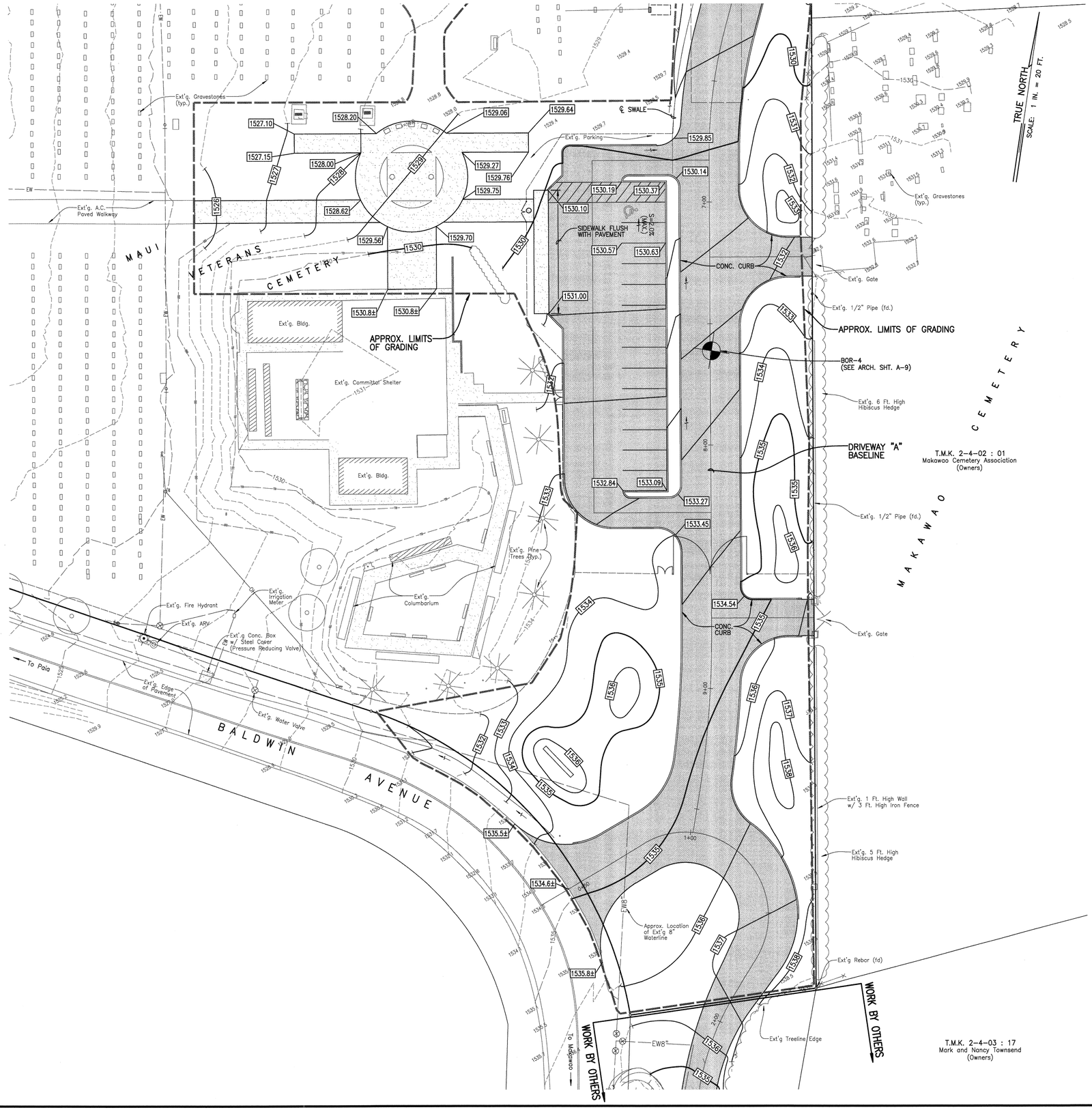

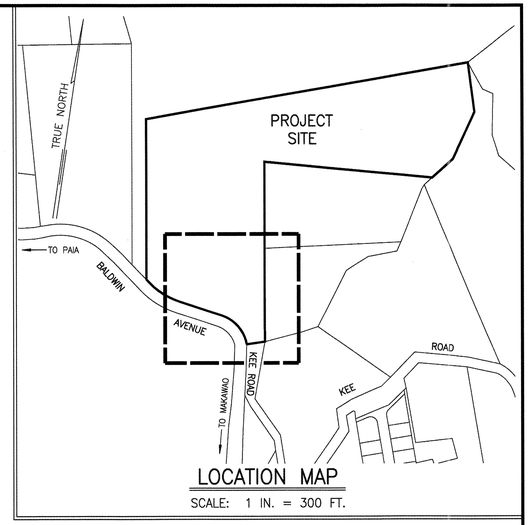

LEGEND:

- 1520 — EXISTING GRADE WITH ELEVATION
- 1520 — FINISH GRADE WITH ELEVATION
- 1519.20 — FINISH GRADE SPOT ELEVATION
- 1523.1 — EXISTING SPOT ELEVATION
- FLOW LINE
- DIRECTION OF FLOW
- TOP OF BANK
- BOTTOM OF BANK
- APPROX. LIMITS OF GRADING

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

DETAILED GRADING PLAN: SOUTH

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-10
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 12 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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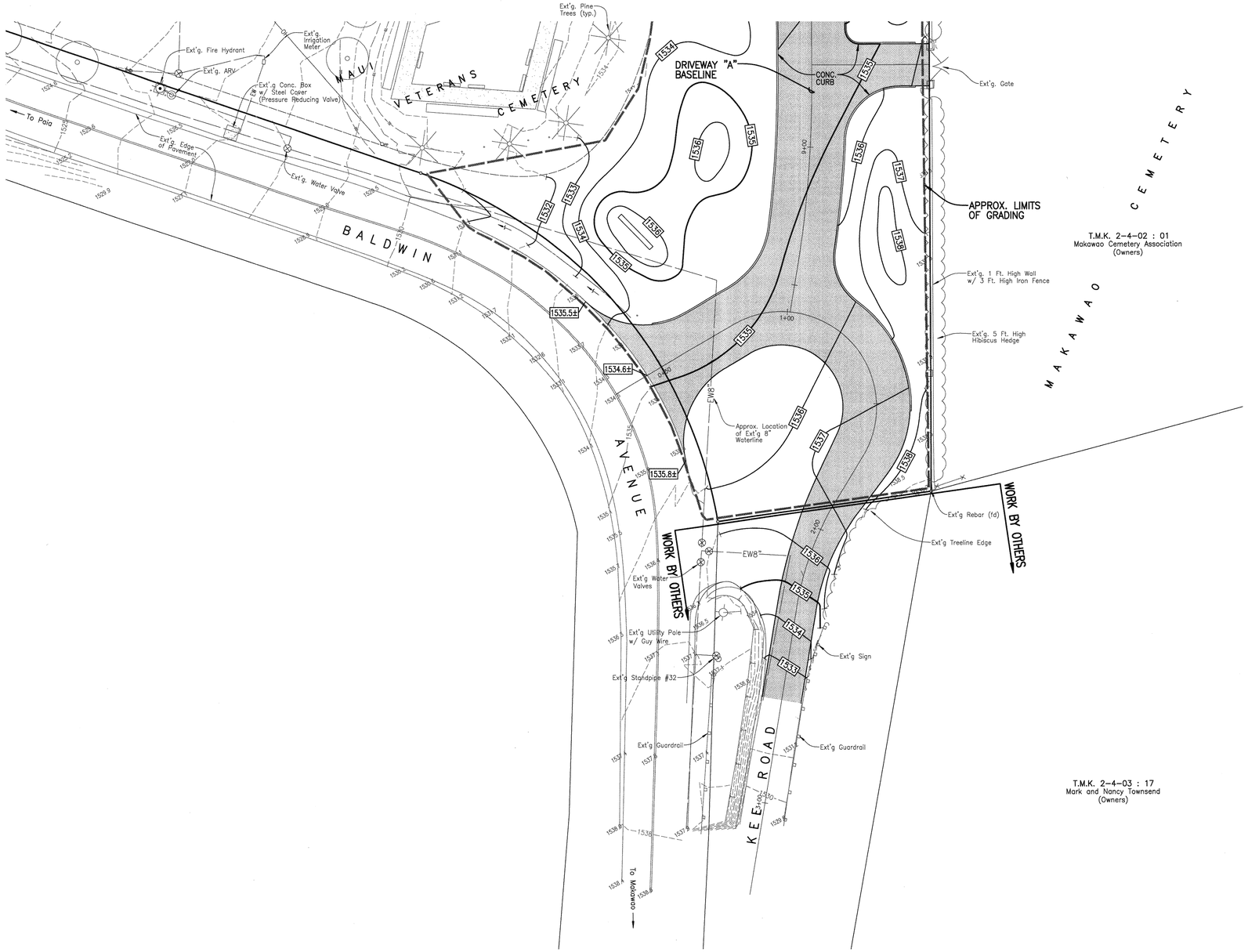

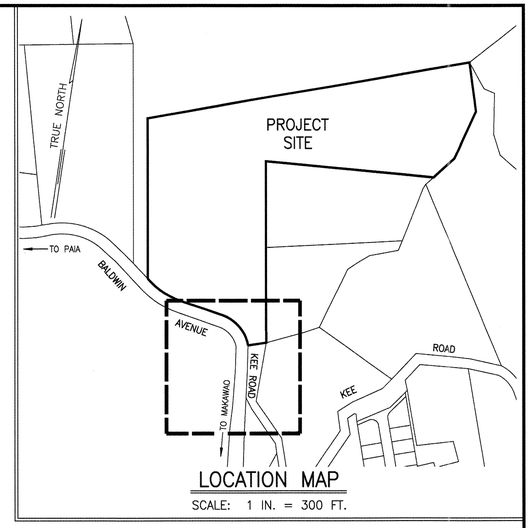

LOCATION MAP
SCALE: 1 IN. = 300 FT.

TRUE NORTH
SCALE: 1 IN. = 20 FT.

T.M.K. 2-4-03 : 17
Mark and Nancy Townsend
(Owners)

LEGEND:

- 1520 — EXISTING GRADE WITH ELEVATION
- 1520 — FINISH GRADE WITH ELEVATION
- 1519.20 — FINISH GRADE SPOT ELEVATION
- 1523.1 — EXISTING SPOT ELEVATION
- FLOW LINE
- DIRECTION OF FLOW
- TOP OF BANK
- BOTTOM OF BANK
- APPROX. LIMITS OF GRADING

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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EXPIRATION DATE OF THE LICENSE

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STATE OF HAWAII
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

DETAILED GRADING PLAN: KEE ROAD

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-11
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 13 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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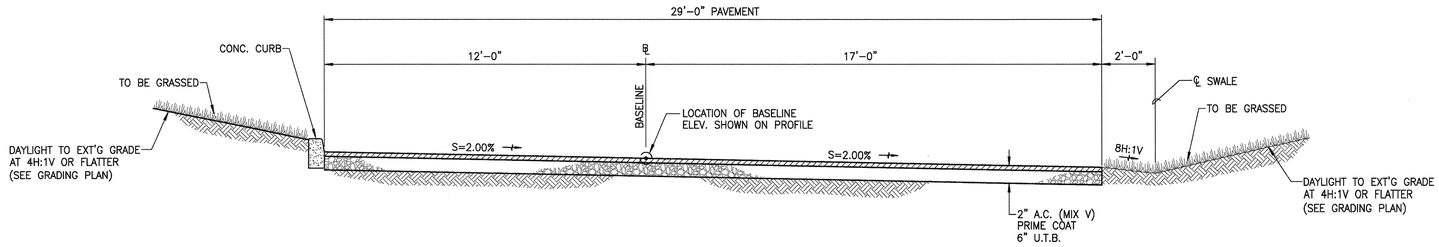
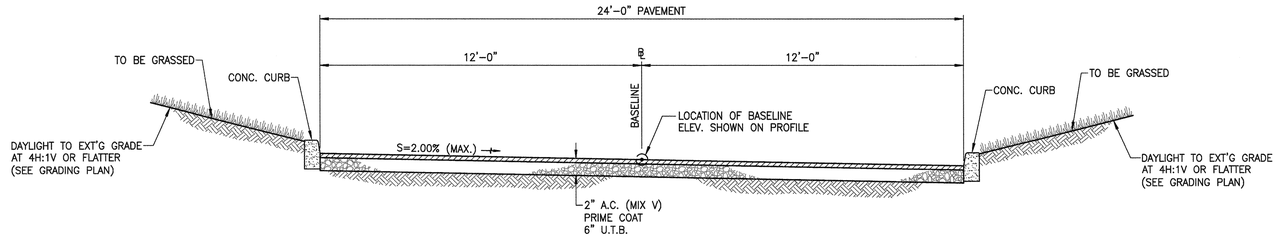


TYPICAL SECTION – DRIVEWAY "A" (STA. 1+50 TO 6+20)

SCALE: 3/8" = 1'-0"



TYPICAL SECTION – DRIVEWAY "A" (STA. 6+20 TO 9+50)

SCALE: 3/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

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STATE OF HAWAII
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DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TYPICAL DRIVEWAY SECTIONS – DRIVEWAY "A"

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-12
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 14 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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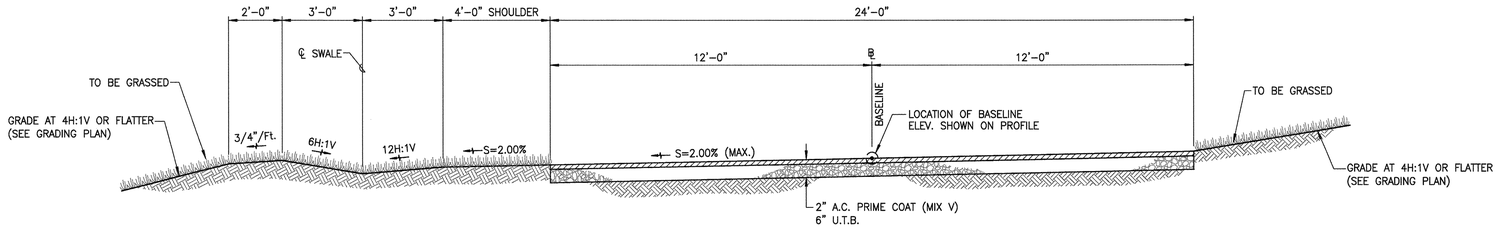
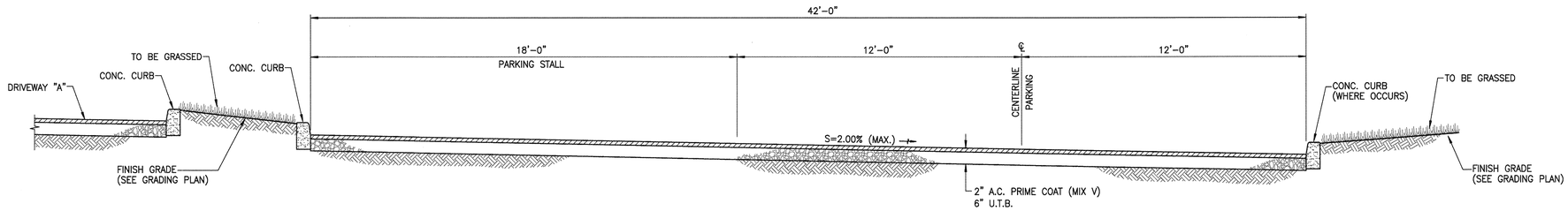


TYPICAL SECTION – DRIVEWAY "B"

SCALE: 3/8" = 1'-0"



TYPICAL SECTION – VISITOR PARKING LOT

SCALE: 3/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TYPICAL DRIVEWAY SECTIONS – DRIVEWAY "B" AND VISITOR PARKING LOT

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-13
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 15 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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BACKFLOW PREVENTER DATA (DOMESTIC)	
TAX MAP KEY:	(2) 2-4-02 : 07 & 09
PROJECT NAME:	MAUI VETERANS CEMETERY
SERVICE ADDRESS:	BALDWIN AVENUE
TYPE OF DEVICE:	REDUCED PRESSURE BACKFLOW PREVENTER
SIZE/MAKE/MODEL:	2" FEBCO MODEL 825Y

BACKFLOW PREVENTER DATA (FIRE)	
TAX MAP KEY:	(2) 2-4-02 : 07 & 09
PROJECT NAME:	MAUI VETERANS CEMETERY
SERVICE ADDRESS:	BALDWIN AVENUE
TYPE OF DEVICE:	DOUBLE CHECK DETECTOR
SIZE/MAKE/MODEL:	6" WATTS MODEL 709DCDA

TRUE NORTH
SCALE: 1 IN. = 40 FT.

T.M.K. 2-4-02 : 17
Mark and Nancy Townsend
(Owners)

T.M.K. 2-4-02 : 01
Makawao Cemetery Association
(Owners)

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

DRIVEWAY "B" BASELINE

DRIVEWAY "A" BASELINE
(SEE PROFILE BELOW)

MAINTENANCE BUILDING

CB #B-1

FH #B-1

DMH #B

CB #A-1 (TYPE 1)
STA. 1+18.59
O/S 18.60' RT. (DRWY. "A")
STA. 1+57.09
O/S 20.00' LT. (DRWY. "B")

CB #A-2 (TYPE 1)
STA. 1+93.20 O/S 21.00' RT. (DRWY. "A")

CB #A-3 (TYPE 1)
STA. 4+43.80 O/S 20.00' RT. (DRWY. "A")

STA. 1+36.59 O/S 6.00' LT. (DRWY. "A")
STA. 1+81.69 O/S 2.00' LT. (DRWY. "B")
1-8" x 90° BEND, MJ
1-CONC. THRUST BLOCK

STA. 1+38.59 (DRWY. "A")
STA. 1+75.69 (DRWY. "B")

STA. 5+90.05 O/S 7.49' LT. (DRWY. "A")
1-8" x 11.25° BEND, MJ
1-CONC. THRUST BLOCK

STA. 6+42.02 O/S 5.41' LT. (DRWY. "A")
1-8" x 11.25° BEND, MJ
1-CONC. THRUST BLOCK

STA. 8+10.84 O/S 9.00' LT. (DRWY. "A")
1-8" x 45° BEND, MJ
1-CONC. THRUST BLOCK

STA. 7+22.78 (DRWY. "A")

STA. 8+70.88 (DRWY. "A")

STA. 9+03.67 O/S 64.55' RT. (DRWY. "A")
1-8" x 22.5° BEND, MJ
1-CONC. THRUST BLOCK

STA. 9+23.39 O/S 68.15' RT. (DRWY. "A")
1-CONC. THRUST BEAM
(SEE DWS STD. DETS. B16-B18)

CONNECT TO EXT'G. 8" WATER MAIN
STA. 9+46.99 O/S 71.37' RT. (DRWY. "A")
1-8" x 8" TAPPING TEE, MJ x FE
1-8" TAPPING VALVE, FE x MJ W/SVB & C
1-CONC. THRUST BLOCK

6" DOUBLE CHECK DETECTOR ASSEMBLY WATTS MODEL 709DCDA
(SEE ABOVE GROUND INSTALLATION DETAIL)

2" REDUCED PRESSURE BACKFLOW PREVENTER FEBCO MODEL 825Y
(SEE DWS STD. DET. V9)

SEE WATER SERVICE CONNECTION DETAIL ON SHEET C-24

FLOWER WATERING STATION
(INSTALL PRESSURE REGULATING VALVE IN PLASTIC VALVE BOX UPSTREAM OF WATER SPIGOT RISER)

1" PE WATERLINE
(MAINTAIN 18" MIN. COVER)
L=38'±

MONUMENT
STA. 9+59.80 (DRWY. "A")
STA. 1+01.00 (KEE RD.)

Ext'g Rebar (fd)
(PROPERTY PIN)

Approx. Location of Ext'g 8" Waterline

Ext'g Gravestones (typ.)

Ext'g 6 Ft. High Hibiscus Hedge

Ext'g 1 Ft. High Wall w/ 3 Ft. High Iron Fence

Ext'g 5 Ft. High Hibiscus Hedge

Ext'g Gate

Ext'g 1/2" Pipe (fd.)

Ext'g Dirt Road

Ext'g Barbed Wire Fence

Ext'g Hog Wire Fence

Ext'g Fence

Ext'g Flow Line of Swale

Ext'g Treeline Edge

Ext'g Utility Pole

Ext'g Stand Pipe

Top of Bank

Ext'g Edge of Pavement

To Makawao

Ext'g Columbarium

Ext'g Committal Shelter

Ext'g Bldg.

Ext'g Irrigation Meter

Ext'g Fire Hydrant

Ext'g Conc. Box

Ext'g A.C. or Paved Walkway

DRIVEWAY "A"

KEE ROAD

AVENUE

BALDWIN

MAUI VETERANS CEMETERY

To Road

AZ.=164°29'19"
L=72.69

AZ.=171°05'13"
L=248.93

341°37'30"
165.06

351°31'
351.86

351°19'
197.49

133°18'16"
81.33

356°50'53"
34.00

0°59'32"
64.76

PC: STA. 5+68.71
R=160.00
PT: STA. 6+71.39

PC: STA. 2+15.85
R=100.00
PT: STA. 2+65.85

PC: STA. 6+28.45
R=200.00

PC: STA. 8+77.99
R=400.00

PC: STA. 9+45.54

PIPE MATERIALS:

1. WATER SYSTEM PIPE MATERIALS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION, 2002", DEPARTMENT OF WATER SUPPLY, COUNTY OF MAUI.
   a) WATER PIPING 4 INCHES IN DIAMETER OR LARGER SHALL BE CLASS 52 DUCTILE IRON WITH POLYETHYLENE ENCASEMENT.
   b) WATER PIPING 3 INCHES IN DIAMETER OR SMALLER SHALL BE POLYETHYLENE (AWWA C901, DR 9, PRESSURE CLASS 200).
   c) WATER PIPING UPSTREAM OF THE REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE COPPER TUBING.
2. STORM DRAIN PIPING SHALL BE HDPE OR PVC WITH A SMOOTH INTERIOR BORE.
   a) ALUMINUM SPIRAL RIB (ASRP) OR CORRUGATED ALUMINUM CULVERT PIPE (CAP) MAY ALSO BE USED; HOWEVER, USE OF CORRUGATED CAP REQUIRES THAT THE PIPE DIAMETER SHOWN ON THE PLAN BE INCREASED BY AT LEAST ONE INCREMENTAL SIZE (E.G., 18-IN DIA HDPE EQUATES TO 21-IN DIA. OR LARGER CAP) TO COMPENSATE FOR THE INCREASED HYDRAULIC ROUGHNESS INHERENT IN THIS TYPE OF PIPE.
   b) ALL PIPE CONNECTIONS SHALL BE MADE USING PREFABRICATED FITTINGS; APPROPRIATE ADAPTERS SHALL BE USED TO TRANSITION BETWEEN DIFFERENT PIPE MATERIALS.
   c) ALL JOINTS SHALL BE MADE WATER-TIGHT USING FLEXIBLE GASKETS.

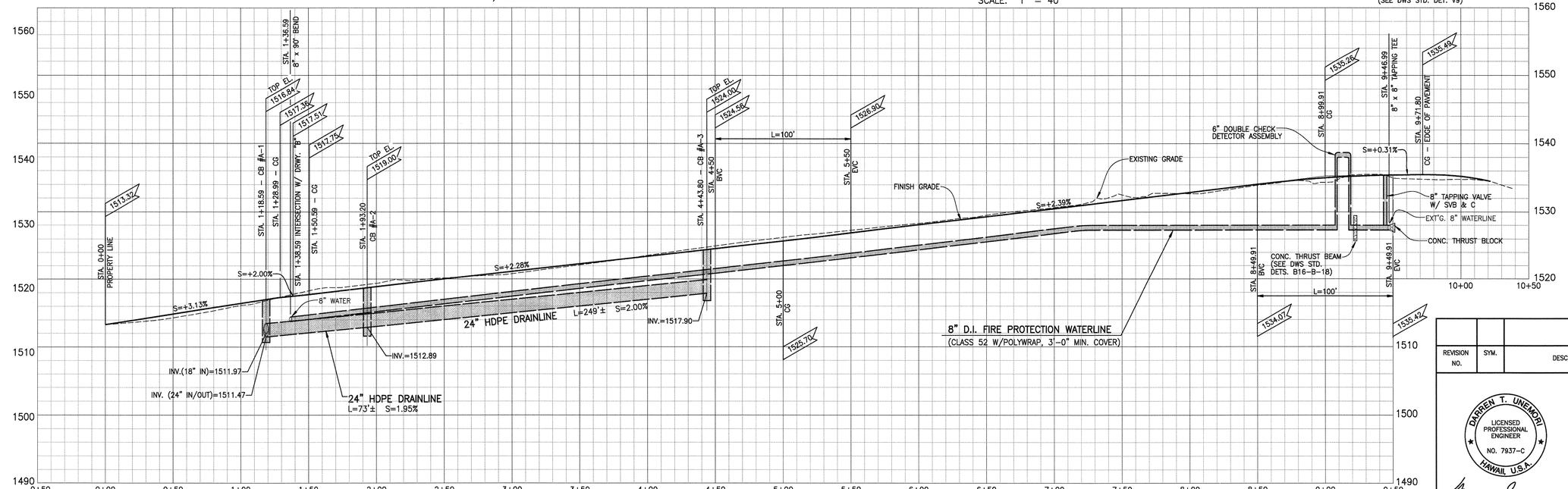
PLAN
SCALE: 1" = 40'

LEGEND:

- BACKFLOW PREVENTER
- GRATED INLET CATCH BASIN
- FIRE HYDRANT
- WF8" — FIRE PROTECTION WATERLINE W/ SIZE
- WD3" — DOMESTIC WATERLINE W/ SIZE
- D24" — DRAINLINE W/ SIZE

SURVEY MONUMENTS:

CENTERLINE MONUMENTS SHALL CONSIST OF A 1/2 INCH DIAMETER BRASS PIN EMBEDDED IN CONCRETE CONFORMING TO MAUI COUNTY DEPT. OF PUBLIC WORKS STANDARD DETAIL R-14 "CENTERLINE MONUMENT."



PROFILE – DRIVEWAY "A"
SCALE: HORIZ. 1" = 40'
VERT. 1" = 8'

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DRIVEWAY "A"-PLAN & PROFILE: ROADWAY & UTILITIES

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-14
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 16 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 40 FT.			

FILE_____ DRAWER_____ FOLDER_____

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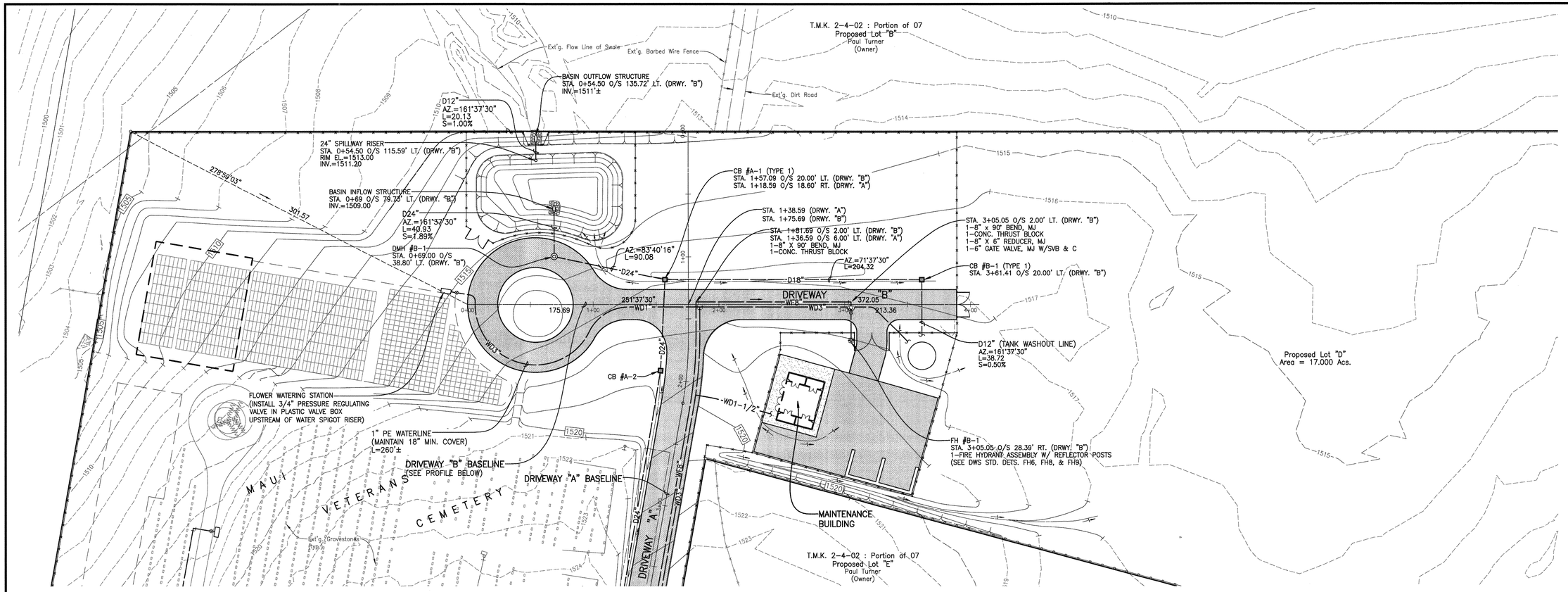
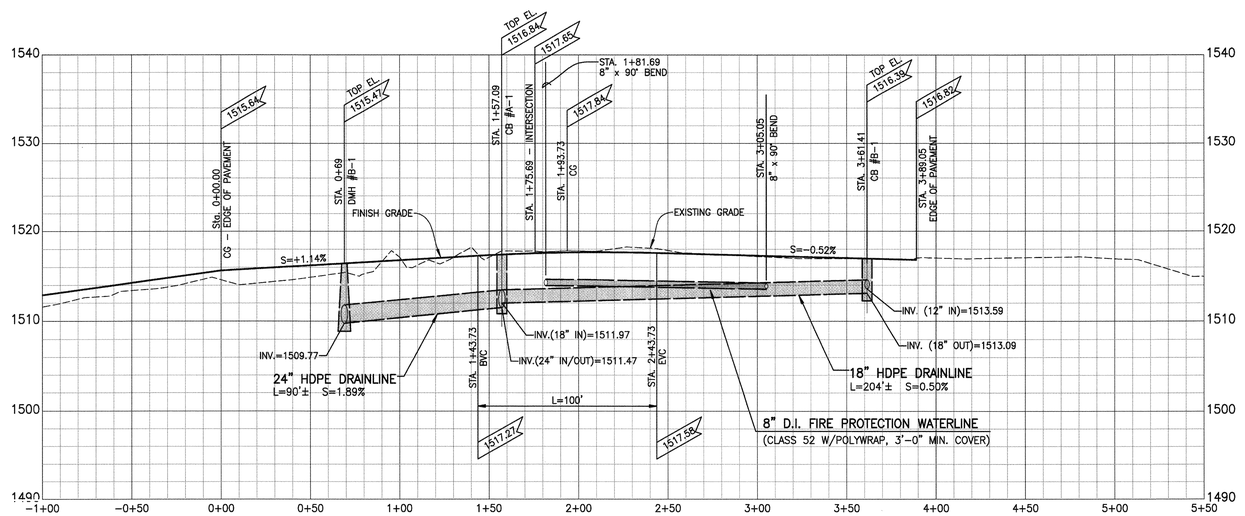


PLAN

SCALE: 1" = 40'



PROFILE - DRIVEWAY "B"

SCALE: HORIZ. 1" = 40'
VERT. 1" = 8'

PIPE MATERIALS:

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   b) WATER PIPING 3 INCHES IN DIAMETER OR SMALLER SHALL BE POLYETHYLENE (AWWA C901, DR 9, PRESSURE CLASS 200).
   c) WATER PIPING UPSTREAM OF THE REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE COPPER TUBING.

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   b) ALL PIPE CONNECTIONS SHALL BE MADE USING PREFABRICATED FITTINGS; APPROPRIATE ADAPTERS SHALL BE USED TO TRANSITION BETWEEN DIFFERENT PIPE MATERIALS.
   c) ALL JOINTS SHALL BE MADE WATER-TIGHT USING FLEXIBLE GASKETS.

LEGEND:

- GRATED INLET CATCH BASIN
- FIRE HYDRANT
- WF8" — FIRE PROTECTION WATERLINE W/ SIZE
- WD3" — DOMESTIC WATERLINE W/ SIZE
- D24" — DRAINLINE W/ SIZE

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STATE OF HAWAII
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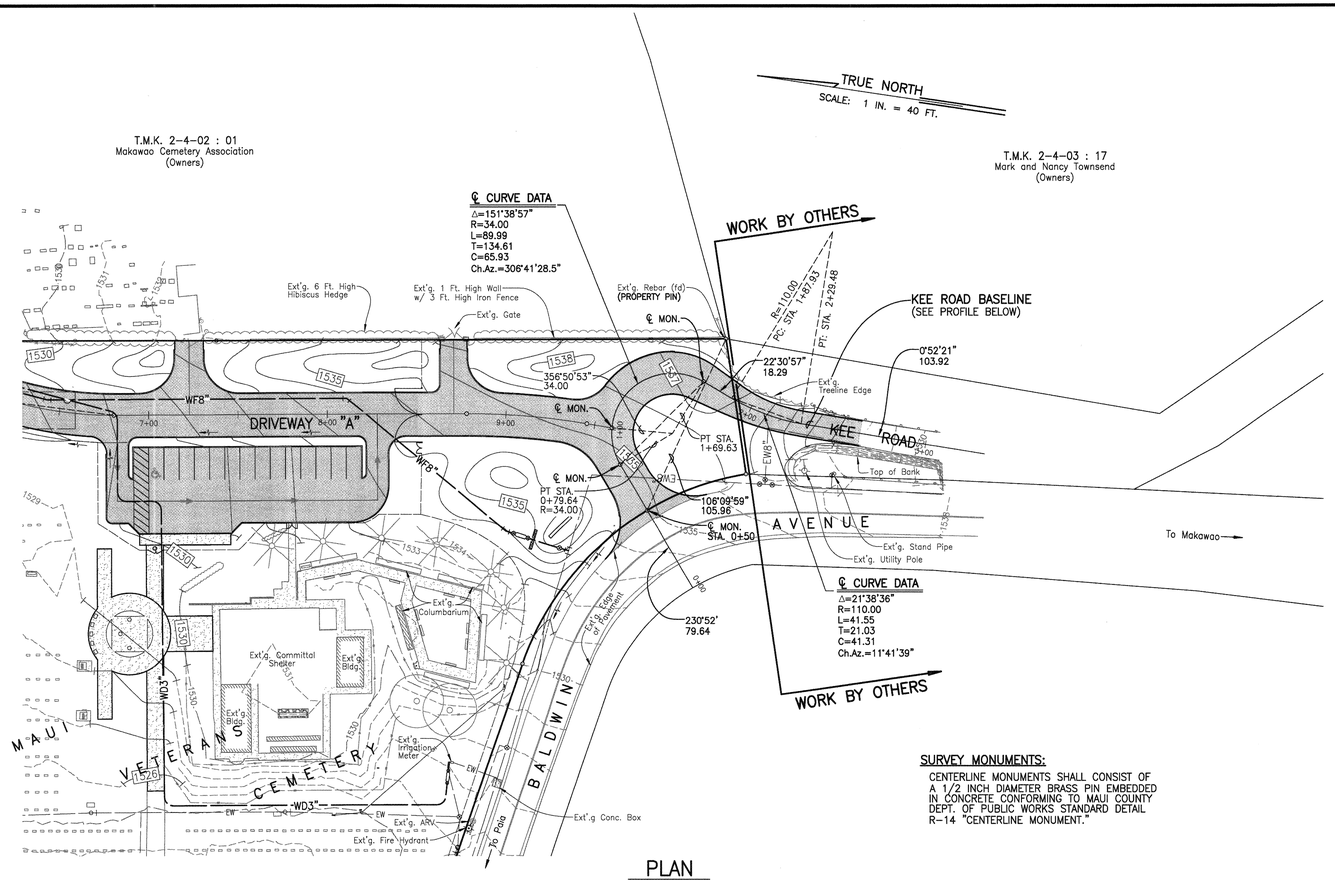
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DRIVEWAY "B"-PLAN & PROFILE: ROADWAY & UTILITIES

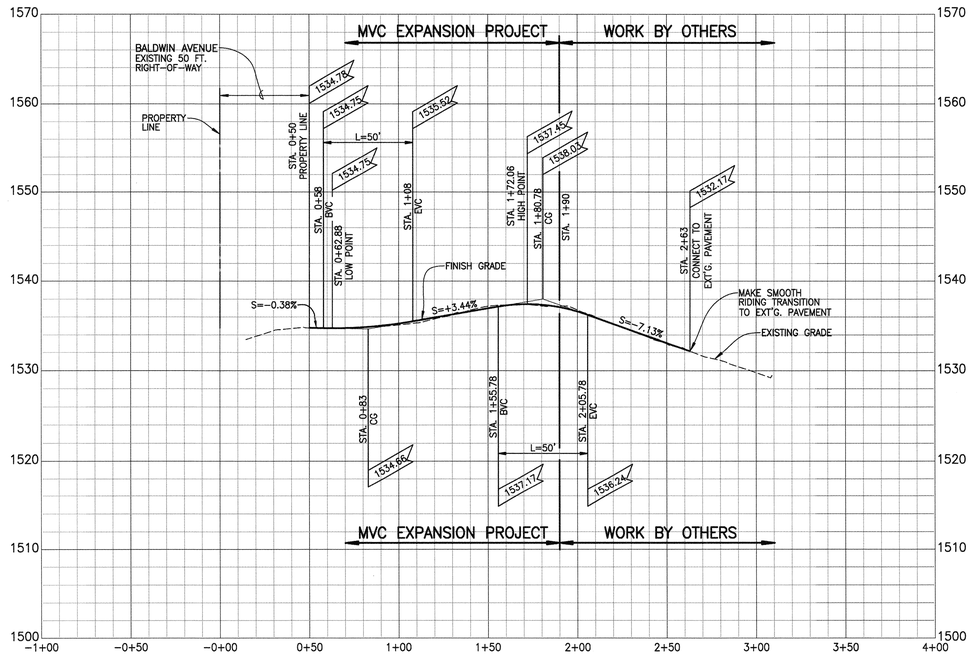
DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-15
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 17 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 40 FT.			

W:\Projdata\12proj\12056 - Maui Veterans Cemetery\dwg\conplans\pl-drwy-b-00.dwg



PLAN

SCALE: 1" = 40'



PROFILE – KEE ROAD

SCALE: HORIZ. 1" = 40'
VERT. 1" = 8'

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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NO. 7937-C
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STATE OF HAWAII
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DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

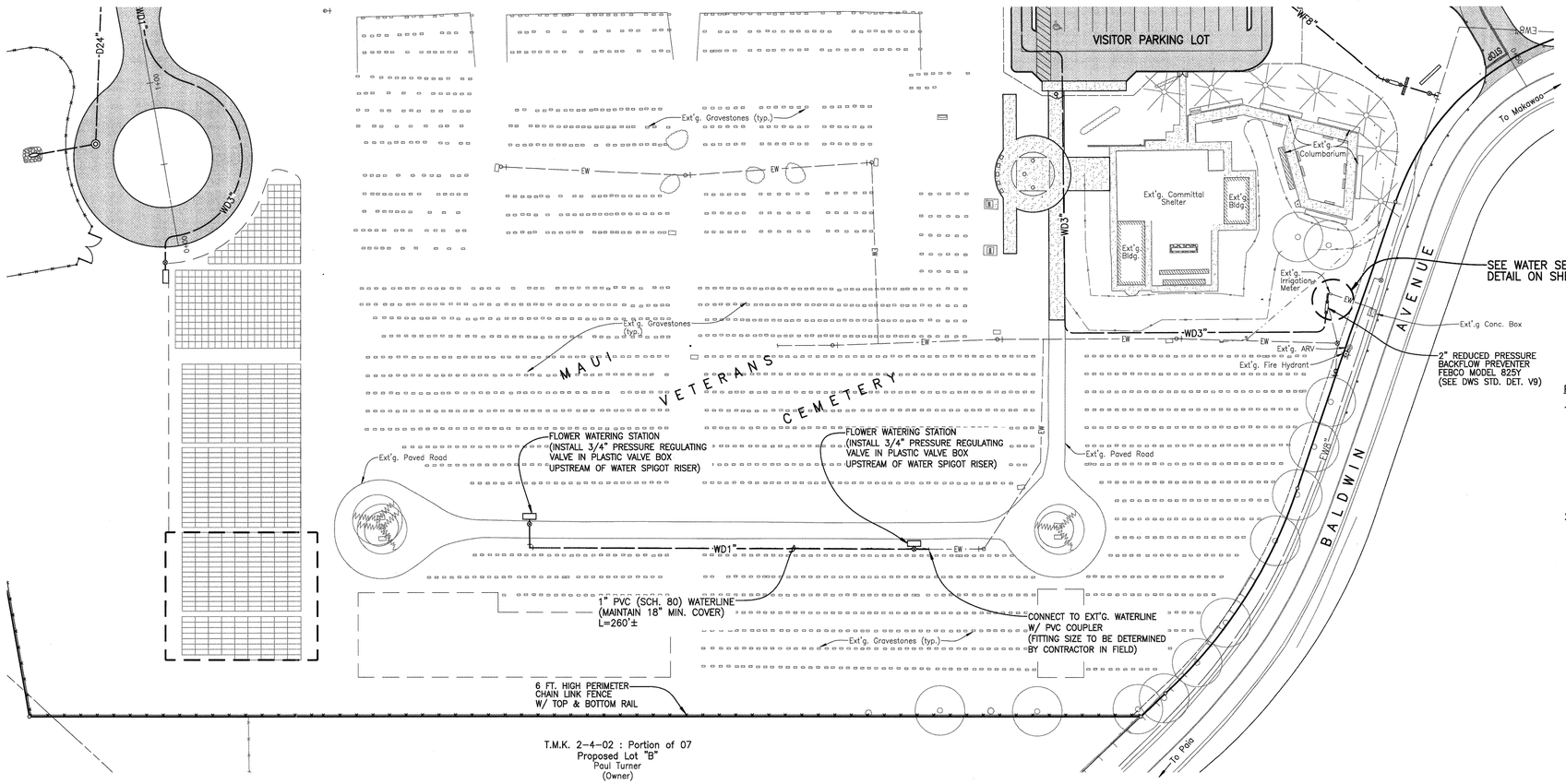
KEE ROAD – PLAN & PROFILE: ROADWAY

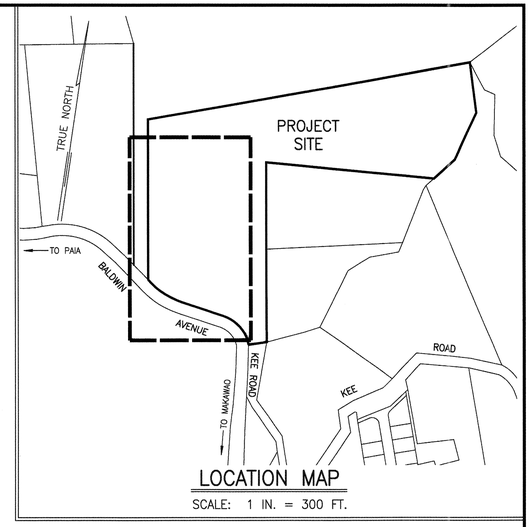
DESIGN PARTNERS INCORPORATED

DESIGNED BY: DTO	CHECKED BY: DTU	DAGS JOB NO. 15-14-7509	DRAWING NO. C-16
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 18 OF 80 SHTS.
SCALE: 1 IN. = 40 FT.			

FILE_____DRAWER_____FOLDER_____

V:\Projdata\12proj\12056 - Maui Veterans Cemetery\dwg\conplans\pl-kee rd-00.dwg





PIPE MATERIALS:

1. WATER SYSTEM PIPE MATERIALS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION, 2002", DEPARTMENT OF WATER SUPPLY, COUNTY OF MAUI.
   a) WATER PIPING 4 INCHES IN DIAMETER OR LARGER SHALL BE CLASS 52 DUCTILE IRON WITH POLYETHYLENE ENCASEMENT.
   b) WATER PIPING 3 INCHES IN DIAMETER OR SMALLER SHALL BE POLYETHYLENE (AWWA C901, DR 9, PRESSURE CLASS 200).
   c) WATER PIPING UPSTREAM OF THE REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE COPPER TUBING.

2. STORM DRAIN PIPING SHALL BE HDPE OR PVC WITH A SMOOTH INTERIOR BORE.
   a) ALUMINUM SPIRAL RIB (ASRP) OR CORRUGATED ALUMINUM CULVERT PIPE (CAP) MAY ALSO BE USED; HOWEVER, USE OF CORRUGATED CAP REQUIRES THAT THE PIPE DIAMETER SHOWN ON THE PLAN BE INCREASED BY AT LEAST ONE INCREMENTAL SIZE (E.G. 18-IN DIA HDPE EQUATES TO 21-IN DIA. OR LARGER CAP) TO COMPENSATE FOR THE INCREASED HYDRAULIC ROUGHNESS INHERENT IN THIS TYPE OF PIPE.
   b) ALL PIPE CONNECTIONS SHALL BE MADE USING PREFABRICATED FITTINGS; APPROPRIATE ADAPTERS SHALL BE USED TO TRANSITION BETWEEN DIFFERENT PIPE MATERIALS.
   c) ALL JOINTS SHALL BE MADE WATER-TIGHT USING FLEXIBLE GASKETS.

LEGEND:

- BACKFLOW PREVENTER
- GRATED INLET CATCH BASIN
- FIRE HYDRANT
- WF8" — FIRE PROTECTION WATERLINE W/ SIZE
- WD3" — DOMESTIC WATERLINE W/ SIZE
- D24" — DRAINLINE W/ SIZE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

WATERING STATION PIPING WITHIN EXT'G. CEMETERY

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-17
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 19 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

FILE_____DRAWER_____FOLDER_____

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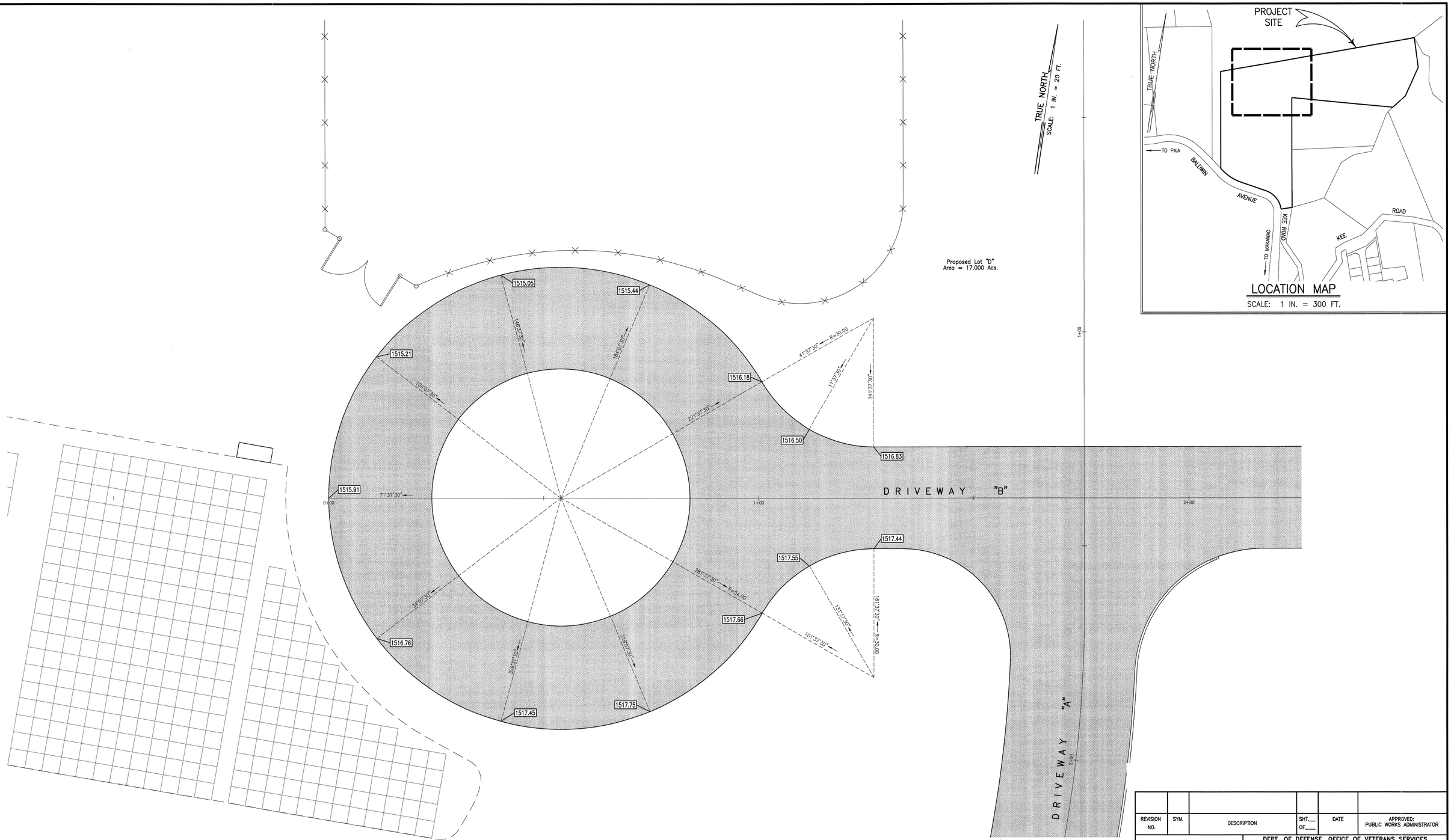

LEGEND:

- 1520 — EXISTING GRADE WITH ELEVATION
- 1520 — FINISH GRADE WITH ELEVATION
- 1519.20 — FINISH GRADE SPOT ELEVATION
- 1523.1 — EXISTING SPOT ELEVATION
- FLOW LINE
- DIRECTION OF FLOW
- TOP OF BANK
- BOTTOM OF BANK
- APPROX. LIMITS OF GRADING

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

ROADWAY GRADING DETAIL

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EXPIRATION DATE OF THE LICENSE

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-18
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 20 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 20 FT.			

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FILE_____DRAWER_____FOLDER_____

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

Ext'g. Dirt Road

T.M.K. 2-4-03 : 20
Robert & Myra Carvalho, Trust
(Owner)

TRUE NORTH
SCALE: 1 IN. = 60 FT.

NO PARKING ON THE GRASS
12" x 18"

Proposed Lot "D"
Area = 17.000 Acs.

MAINTENANCE BUILDING

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

T.M.K. 2-4-03 : 19
Gladys Nobue O'Conner
(Owner)

INSTALL 2 FT. FROM EDGE PAVEMENT IN CURBED AREAS (TYP.)
INSTALL 6 FT. FROM EDGE PAVEMENT IN NON-CURBED AREAS (TYP.)

MAUI VETERANS CEMETERY

Ext'g. Gravestones (typ.)

ONE WAY
R6-1
36" X 12"

To Paia

Ext'g. Bldg.

Ext'g. Committal Shelter

Ext'g. Bldg.

Ext'g. Fire Hydrant

"ACCESS AISLE" SIGN

"RESERVED PARKING" SIGN

T.M.K. 2-4-02 : 01
Makawao Cemetery Association
(Owners)

VISITOR PARKING LOT

MAKAWAO CEMETERY

BALDWIN AVENUE

Ext'g. Edge of Pavement

R5-1
30" x 30"

ENTRY SIGN MONUMENT

BALDWIN AVE.
KE'E ROAD

STOP
R1-1
30" x 30"

YIELD
R1-2
36" x 36" x 36"

To Makawao

KE'E ROAD

YIELD
R1-2
36" x 36" x 36"

TO ONCOMING TRAFFIC
R1-2a

T.M.K. 2-4-03 : 17
Mark and Nancy Townsend
(Owners)

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

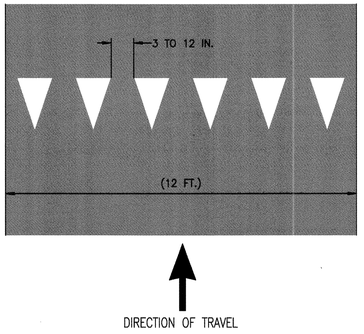
COUNTY OF MAUI, HAWAII

GENERAL STRIPING AND SIGNAGE PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-19
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 21 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 60 FT.			

FILE_____ DRAWER_____ FOLDER_____

V:\Projdata\12pro\12056 - Maui Veterans Cemetery\dwg\conplans\SIGNAGE PLAN-00.dwg



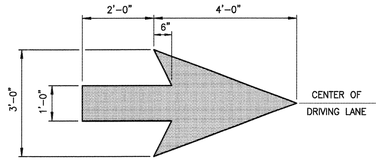
NOTES:

1. TRIANGLE HEIGHT IS EQUAL TO 1.5 TIMES THE BASE DIMENSION.
2. YIELD LINES MAY BE SMALLER THEN SUGGESTED WHEN INSTALLED ON NARROWER, SLOW-SPEED FACILITIES SUCH AS SHARED-USE PATHS.
3. UNLESS OTHERWISE SPECIFIED, USE TYPE "B".

TYPE	BASE	HEIGHT	SPACING
A	12"	18"	3"
B	18"	27"	8"
C	24"	36"	12"

DETAIL – YIELD LINE LAYOUT

NOT TO SCALE

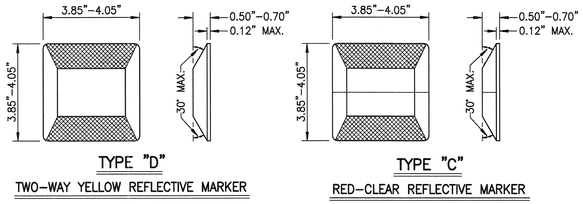


NOTE:

PAINT WITH (2) COATS OF WHITE TRAFFIC PAINT AT PARKING AREAS AND PAINT WITH (2) COATS OF WHITE BEADED REFLECTIVE PAINT AT CURB CUTS, DRY BETWEEN COATS

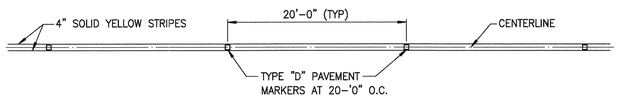
DETAIL – PAINTED PAVEMENT ARROW

SCALE: 1/2" = 1'-0"



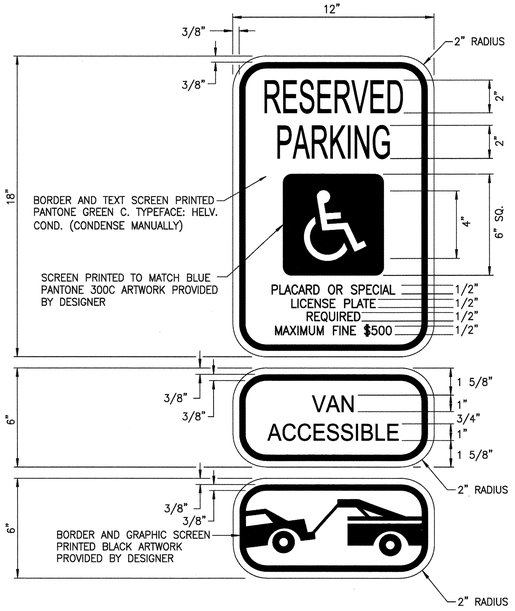
RAISED PAVEMENT MARKER DETAILS

NOT TO SCALE



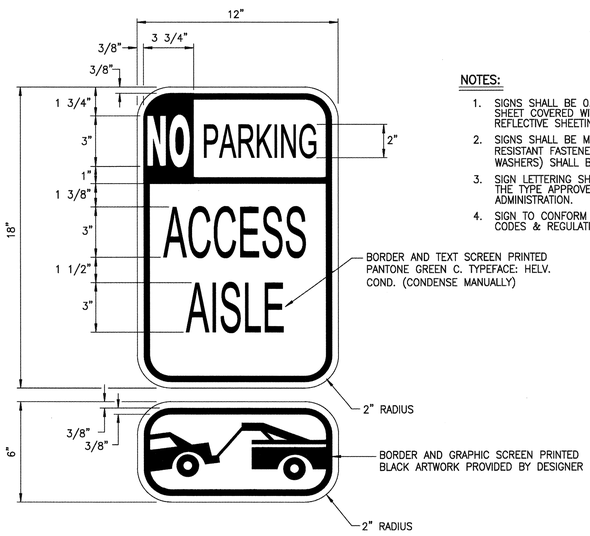
DOUBLE 4" SOLID YELLOW STRIPES WITH PAVEMENT MARKERS

NOT TO SCALE



DETAIL – RESERVED PARKING SIGN FOR VAN ACCESSIBLE STALL

NOT TO SCALE

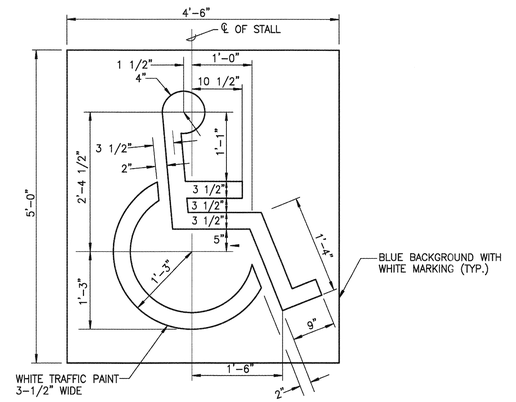


NOTES:

1. SIGNS SHALL BE 0.080 (MIN.) THICK ALUM T6061 SHEET COVERED WITH ENGINEERING GRADE REFLECTIVE SHEETING WITH ANTI-GRAFFITI FILM
2. SIGNS SHALL BE MOUNTED TO POSTS WITH THEFT RESISTANT FASTENERS. ALL FASTENERS (INCLUDING WASHERS) SHALL BE STAINLESS STEEL.
3. SIGN LETTERING SHALL BE UPPERCASE LETTERS OF THE TYPE APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
4. SIGN TO CONFORM TO CURRENT STATE & COUNTY CODES & REGULATIONS.

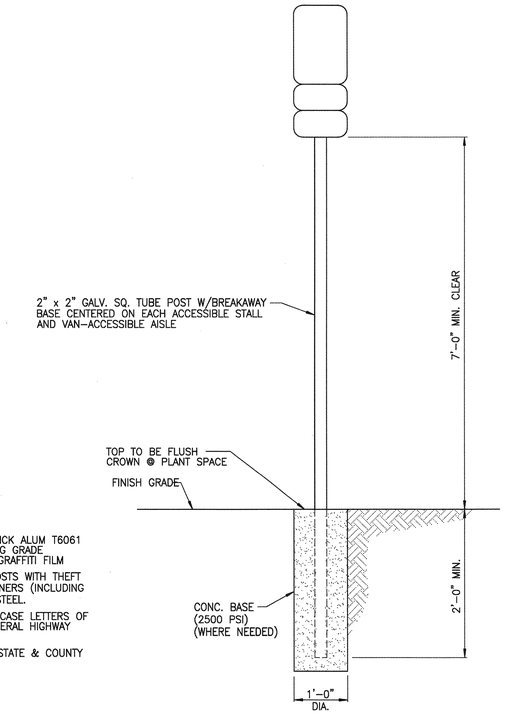
DETAIL – ACCESS AISLE SIGN

NOT TO SCALE



INTERNATIONAL SYMBOL OF ACCESSIBILITY

NOT TO SCALE



DETAIL – TRAFFIC SIGN INSTALLATION

SCALE: 3/4" = 1'-0"

d:\dots\sidewalk\3-4inch.dwg

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

STRIPING & SIGNAGE DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-20
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 22 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____

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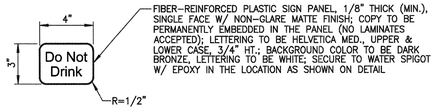
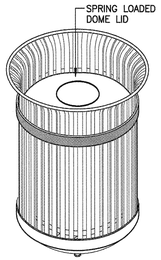
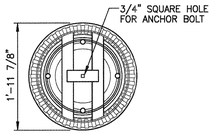


DO NOT DRINK SIGN

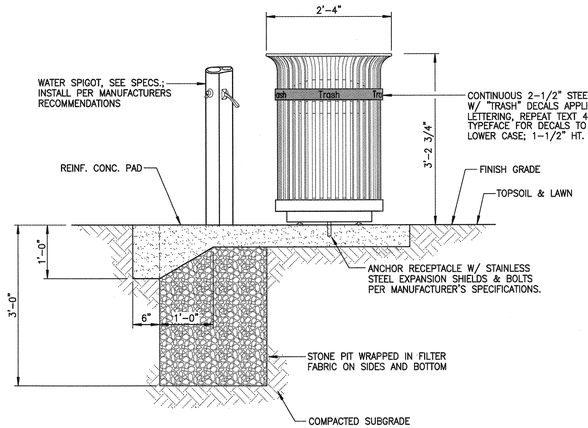
NOT TO SCALE



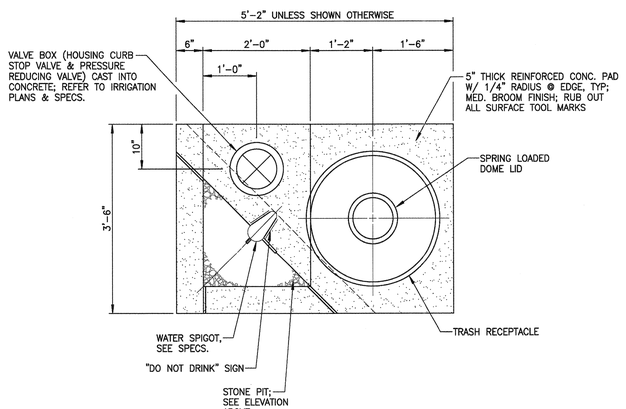
TRASH RECEPTACLE PERSPECTIVE



BOTTOM VIEW



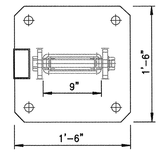
ELEVATION



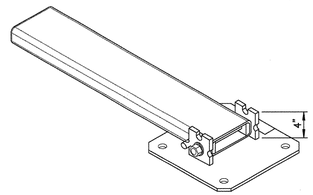
PLAN

FLOWER WATERING STATION

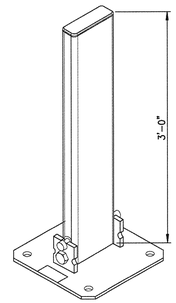
NOT TO SCALE



PLAN VIEW



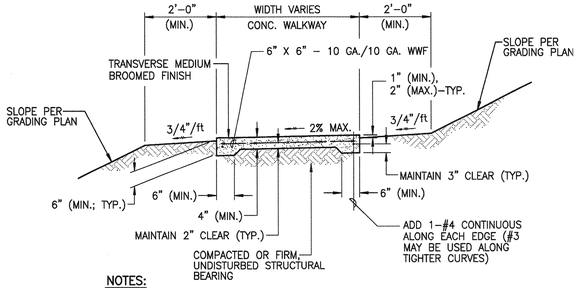
ISOMETRIC COLLAPSED VIEW



ISOMETRIC FRONT VIEW

COLLAPSIBLE BOLLARD DETAIL

NOT TO SCALE



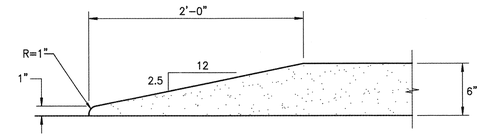
NOTES:

1. CONCRETE: f'_c = 3,000 p.s.i. (MIN.)
2. STEEL REINFORCEMENT: f'_y = 40,000 p.s.i. (MIN.) (ASTM A615 GRADE 40)

   NOTE: WIRE FABRIC AND STEEL BAR REINFORCEMENT MAY BE OMITTED WITH THE APPROVAL OF THE CONTRACTING OFFICER WHEN SYNTHETIC FIBER REINFORCEMENT IS USED.
3. PROVIDE 3/8" RADIUS TOOLED EDGING & 3/8" DEEP TOOLED CRACK CONTROL JOINT @ 8'-0" (MAX.) O.C. & AT ALL JUNCTIONS & CONNECTIONS TO BUILDING LANDINGS.

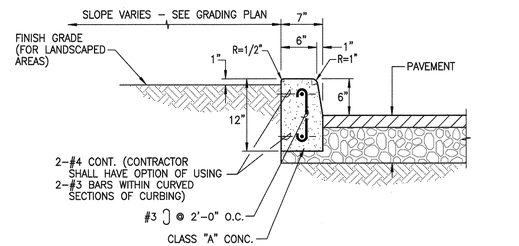
TYPICAL SECTION - CONCRETE WALKWAY

SCALE: 1/2" = 1'-0"



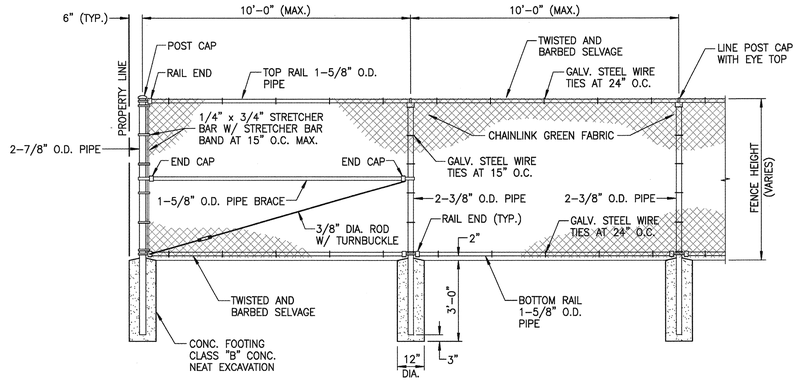
CURB END DETAIL

SCALE: 1 1/2" = 1'-0"



CURB DETAIL

SCALE: 1" = 1'-0"



END CORNER POST | FIRST LINE POST | TYPICAL LINE POST

FENCE INSTALLATION NOTES:

1. CHAIN LINK FENCE SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN D-02 "CHAIN LINK FENCE WITH TOP RAIL."
2. CHAIN LINK FABRIC SHALL BE THERMALLY FUSED AND BONDED WITH GREEN PVC COATING.
3. ALL PIPES, FITTINGS, BARS, CLAMPS, AND POSTS SHALL BE THERMALLY FUSED AND BONDED WITH GREEN PVC COATING.
4. 5-WIRE CATTLE FENCE SHALL CONFORM TO 2008 STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLAN D-04 "WIRE FENCE WITH METAL POSTS."

DETAIL - CHAINLINK FENCE

SCALE: 3/8" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

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EXPIRATION DATE OF THE LICENSE

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STATE OF HAWAII
AND THE
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

PAVEMENT DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-21
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 23 OF 80 SHTS.
SCALE: AS NOTED			

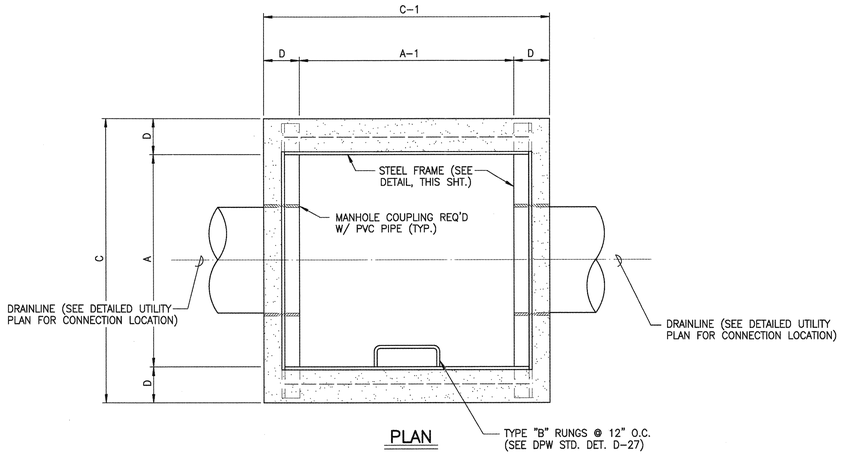
FILE_____ DRAWER_____ FOLDER_____

V:\Projdata\12pro\12056 - Maui Veterans Cemetery\dwg\conplans\DET-PAVE-00.dwg

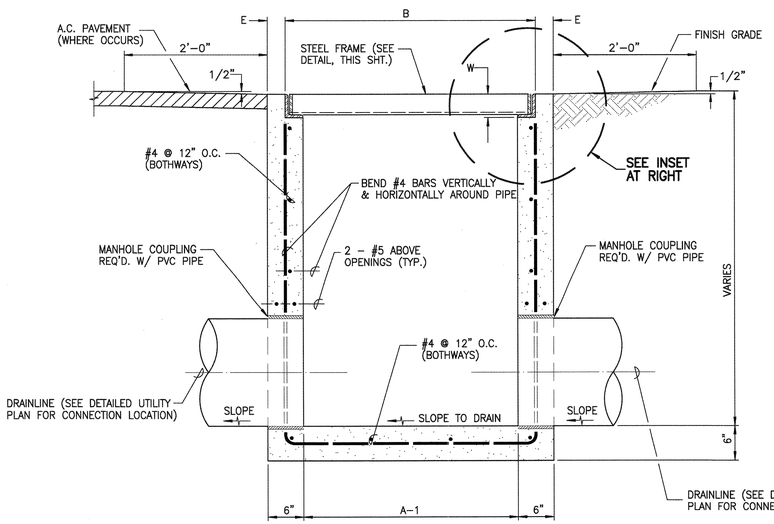
TABLE OF DIMENSIONS FOR CATCH BASIN & GRATE																			
TYPE	DIMENSION	A	A–1	B	C	C–1	D	E	F	G	H	I	J	FLAT GRATE BAR	W	X	Y	Z	NO. BARS	CLEAR BAR SPACING
1	36" x 24"	3'–0"	2'–0"	2'–6"	4'–0"	3'–0"	6"	3"	3"	5 1/2"	3'–11"	2'–4 11/16"	2'–6"	1/2" x 3 1/2"	4"	3/4"	4" x 3" x 1/2"	3 1/2" x 3" x 1/2"	18	1 1/2"

NOTES:

1. TOP OF CATCH BASIN SHALL BE CAST–IN–PLACE TO MATCH SLOPE OF ADJACENT PAVEMENT.
2. CONTRACTOR SHALL HAVE OPTION TO SUBSTITUTE APPROVED HYDRAULICALLY AND STRUCTURALLY EQUIVALENT OR BETTER PRECAST CONCRETE CATCH BASIN DROP INLETS AND PREFABRICATED GRATE ASSEMBLIES. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPPROVAL.
3. ALL GRATES SHALL BE GARY GRATING "TYPE GO SERIES" (MANUFACTURED BY IKG INDUSTRIES, RATED TO SUSTAIN HS20–44 LOADING, OR APPROVED EQUAL. FRAME ANGLE LEG DIMENSIONS SHALL BE ADJUSTED AS REQUIRED.
4. GRATES SHALL BE "BICYCLE PROOF" TYPE WITH 3/8" DIA. TRANSVERSE BARS SPACED AT 4" O.C.
5. ALL STEEL COMPONENTS SHALL BE HOT–DIPPED GALVANIZED AFTER FABRICATION.
6. SEE D.P.W. STANDARD DETAILS SHEET "D–44" FOR CORNER CONNECTIONS.
7. ALL ANCHORS, INSERTS, FRAMES AND COVERS SHALL BE HOT–DIPPED GALVANIZED AFTER FABRICATION.



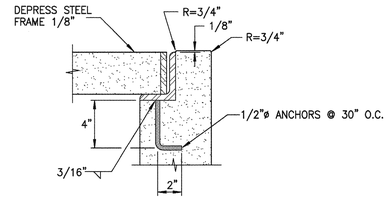
PLAN



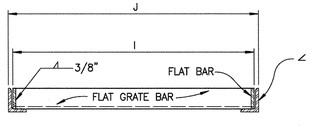
SECTION

DETAIL – CATCH BASIN (TYPE 1)

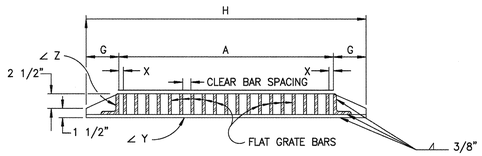
SCALE: 1" = 1'–0"



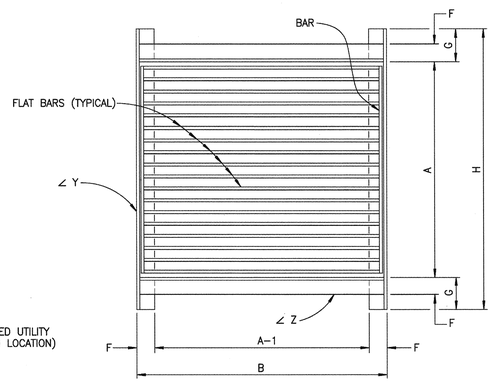
INSET



SECTION



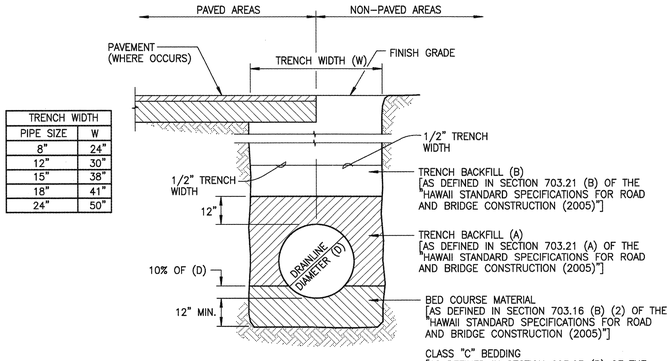
SECTION



PLAN

DETAIL – GRATE & FRAME

SCALE: 1" = 1'–0"



TRENCH WIDTH	
PIPE SIZE	W
8"	24"
12"	30"
15"	38"
18"	41"
24"	50"

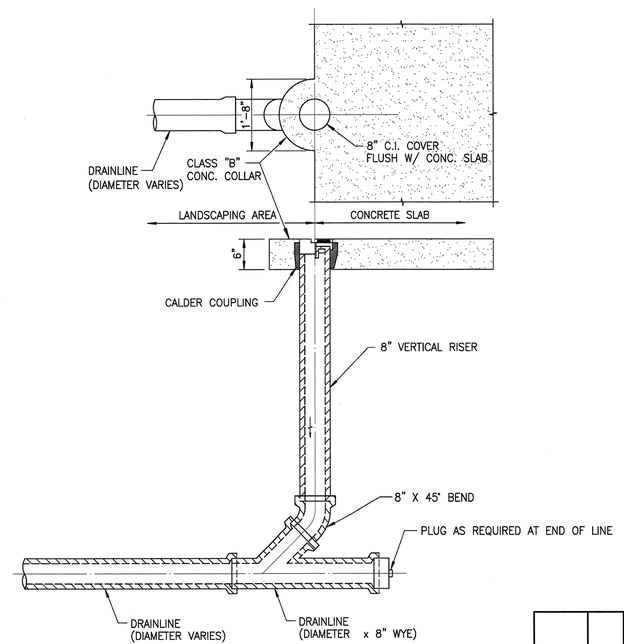
NOTES:

1. TRENCH BACKFILL AND BED COURSE MATERIAL SHALL CONFORM TO SECTION 703 "AGGREGATES" OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005)".
2. INSTALLATION OF CULVERTS SHALL CONFORM TO SECTION 603, "CULVERTS AND STORM DRAINS" OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005)".
3. TRENCH WIDTHS SHALL CONFORM TO TABLE 625.03–1 OF THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005)".
4. LOADS IMPOSED BY CONSTRUCTION VEHICLES WITH AXLE LOADS IN EXCESS OF THE AASHTO HS–20–44 VEHICLE (32,000 LBS./AXLE) SHOULD BE MINIMIZED BY DESIGNATED CONSTRUCTION VEHICLE CROSSINGS. ADDITIONAL FILL SHOULD BE PLACED OVER THE DRAIN LINES AT THE DESIGNATED CONSTRUCTION VEHICLE CROSSINGS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, OR STRUTTING TO SUPPORT THE PIPE SHOULD BE PLACED IN ACCORDANCE WITH THE CURRENT "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005)". ALL DRAIN LINES DAMAGED BY CONSTRUCTION VEHICLE LOADING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. WHEN TRENCHING ACROSS EXISTING SIDEWALK, CONTRACTOR SHALL SAW CUT AT EXISTING SCORELINES AND REMOVE ALL SIDEWALK PANELS AFFECTED BY TRENCH.

TYPICAL TRENCH SECTION FOR DRAINLINE

NOT TO SCALE

w:/details/drain/trnch004.dwg



DETAIL – DRAINLINE CLEANOUT TO GRADE

NOT TO SCALE

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NO. 7937–C
HAWAII, U.S.A.

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APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

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STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DRAINAGE DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15–14–7509	DRAWING NO. C–22
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 24 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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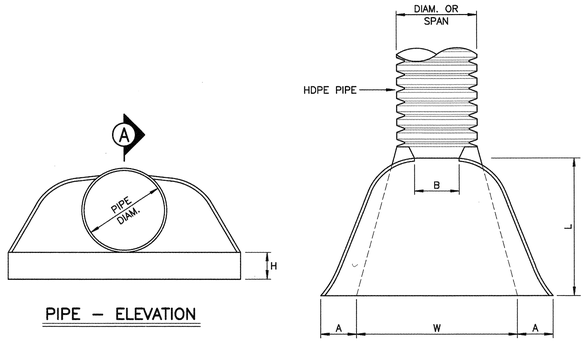
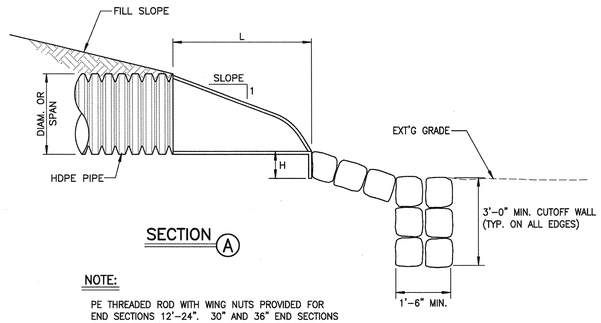


PIPE – ELEVATION

PLAN – PIPE

PIPE DIA. (INCHES)	PIPE DIMENSIONS (INCHES)				
	A	B	H	L	W
	TOL. ± 1"	MAX.	TOL. ± 1"	TOL. ± 1 1/2"	TOL. ± 2"
18	7	10	6	31	58
24	9	13	6	41	72



SECTION (A)

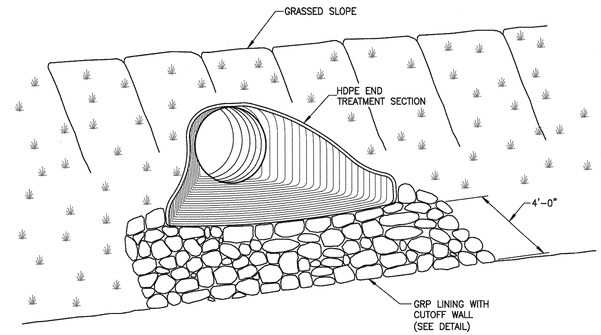
NOTE:

PE THREADED ROD WITH WING NUTS PROVIDED FOR END SECTIONS 12'–24". 30" AND 36" END SECTIONS REQUIRE TWO (20) THREADED RODS FOR ASSEMBLE.

HDPE END SECTION

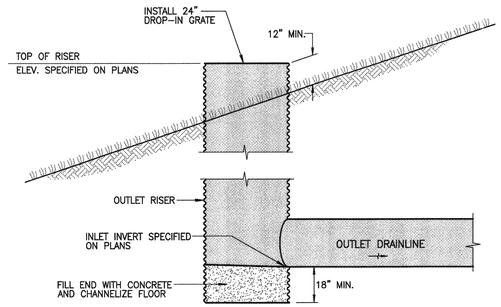
SCALE: 3/4" = 1'–0"

details/drain/endtrect.dwg



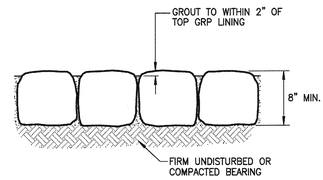
DETAIL – HDPE END SECTIONS

NOT TO SCALE



BASIN OVERFLOW RISER DETAIL

NOT TO SCALE



DETAIL – GRP LINING

NOT TO SCALE

details/drain/endtrect.dwg

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PUBLIC WORKS DIVISION, STATE OF HAWAII

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EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DRAINAGE DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15–14–7509	C–23
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 25 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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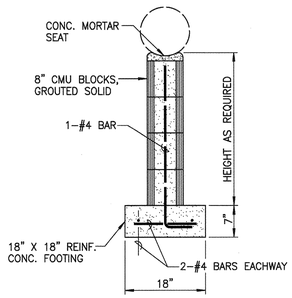
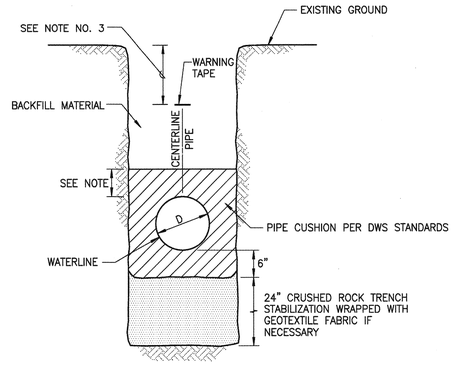


CONCRETE PEDESTAL SUPPORT DETAIL

SCALE: 3/4" = 1'-0"



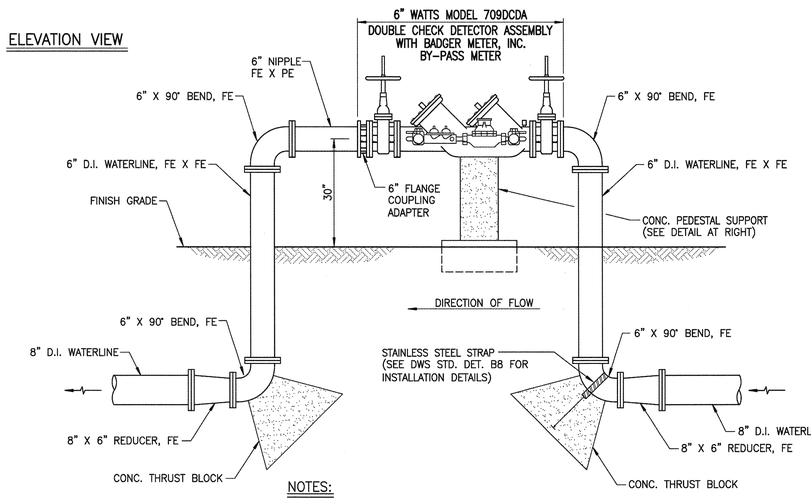
TYPICAL WATERLINE TRENCH SECTION

NOT TO SCALE

NOTES:

1. 12" OF CUSHION MATERIAL FOR PIPES 16" OR LARGER. 6" CUSHION MATERIAL FOR PIPES 12" OR SMALLER AT LOCATIONS WHERE INVERT IS ABOVE 4-FOOT ELEVATION.
2. 12" OF CUSHION MATERIAL FOR ALL PIPE SIZES AT LOCATIONS WHERE THE INVERT IS AT OR BELOW THE 4-FOOT ELEVATION.
3. WARNING TAPE SHALL BE INSTALLED OVER THE CENTERLINE OF PIPES, BENDS, AND FITTINGS AT DEPTH OF 12" BELOW THE FINISHED GRADE OR DIRECTLY BELOW THE PAVEMENT STRUCTURE.
4. WHEN TRENCHING ACROSS EXISTING SIDEWALK, CONTRACTOR SHALL SAW CUT AT EXISTING SCORELINES AND REMOVE ALL SIDEWALK PANELS AFFECTED BY TRENCH.

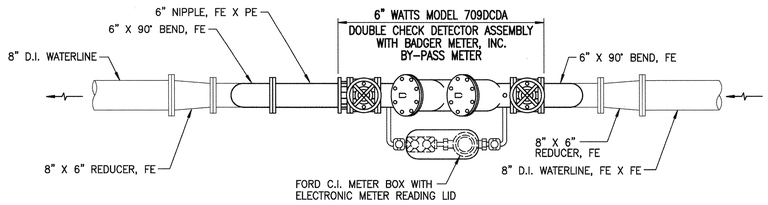
ELEVATION VIEW



NOTES:

1. CONTRACTOR SHALL INSTALL THE DOUBLE-CHECK DETECTOR ASSEMBLY WITH SUFFICIENT LATERAL CLEARANCE FROM WALLS FENCES, POSTS, TREES OR OTHER ADJACENT OBSTRUCTIONS TO ENABLE PROPER MAINTENANCE OF THE UNIT.
2. VISIBLE PORTIONS OF THE ABOVE-GROUND DOUBLE-CHECK DETECTOR ASSEMBLY SHALL BE PAINTED A UNIFORM COLOR TO BE SPECIFIED BY THE ARCHITECT.
3. CONTRACTOR SHALL NOT ADJUST ANY PORTION OF THE DOUBLE-CHECK DETECTOR ASSEMBLY OR BYPASS.
4. CONTRACTOR SHALL INSTALL C.I. FORD METER BOX WITH ELECTRONIC METER READING LID TO ENCLOSE BYPASS METER AND TRANSPONDER. CONCRETE PEDESTAL SUPPORT SHALL BE PROVIDED FOR METER BOX.

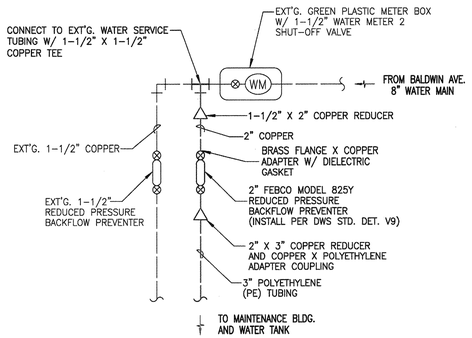
PLAN VIEW



DETAIL - 6" DOUBLE CHECK DETECTOR ASSEMBLY ABOVE GROUND INSTALLATION

NOT TO SCALE

water/dbl-detector.dwg



DETAIL - WATER SERVICE CONNECTION

NOT TO SCALE

STANDARD WATER DETAILS

THE FOLLOWING DETAILS AS SHOWN ON "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION, STATE OF HAWAII, 2002", ARE SPECIFICALLY REFERENCED WITHIN THESE PLANS AND SHALL BE CONSIDERED PART OF THE CONSTRUCTION DRAWINGS. (THIS SHALL NOT BE CONSTRUED TO RELIEVE CONTRACTOR FROM COMPLYING WITH ALL PERTINENT PARTS OF THE AFOREMENTIONED LIST, STANDARD DETAILS AND STANDARDS.)

PLATE	CONTENTS
B1	REINFORCED CONCRETE JACKET - TYPICAL DETAIL
B2-B4	HORIZONTAL REACTION BLOCKS
B6-B8	TOP VERTICAL THRUST BLOCKS
B16-B18	CONCRETE THRUST BEAM TYPICAL DETAIL AND SCHEDULE
FH6-FH9	FIRE HYDRANT CONNECTION
P10	TRENCH BACKFILL
V9	BACKFLOW PREVENTER - TYPICAL INSTALLATION
V12	SLIDING VALVE BOX ASSEMBLY

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF.___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
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NO. 7937-C
HAWAII, U.S.A.

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APRIL 30, 2016
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

WATER DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-24
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 26 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

Ext'g. Dirt Road

SILT FENCE
(L=880'±)

SEDIMENTATION BASIN
(TO BE CONSTRUCTED FIRST)

STAGING AREA

Proposed Lot "D"
Area = 17.000 Acs.

SILT FENCE
(L=200'±)

T.M.K. 2-4-03 : 20
Robert & Myra Carvalho, Trust
(Owner)

TRUE NORTH
SCALE: 1 IN. = 60 FT.

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

T.M.K. 2-4-03 : 19
Gladys Nobue O'Conner
(Owner)

MAUI VETERANS CEMETERY

Ext'g. Cobblestones (typ.)

Ext'g. Bldg.

Ext'g. Committal Shelter

Ext'g. Bldg.

Ext'g. Columbarium

Ext'g. Fire Hydrant

To Paia

BALDWIN AVENUE

Ext'g. Edge of Pavement

TIRE CLEANING PAD

Approx. Location of Ext'g 8" Waterline

MAKAWAO CEMETERY

T.M.K. 2-4-02 : 01
Makawao Cemetery Association
(Owners)

T.M.K. 2-4-03 : 17
Mark and Nancy Townsend
(Owners)

KEE ROAD

To Makawao

HARD SURFACE GUARD
(L=15'±)

LEGEND:

- 270 — FINISH GRADE W/ ELEVATION
- —270— EXISTING GRADE W/ ELEVATION
- SILT FENCE
- HARD SURFACE GUARD
- TIRE CLEANING PAD

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

EROSION CONTROL PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-25
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 27 OF 80 SHTS.
SCALE: SCALE: 1 IN. = 60 FT.			

FILE_____DRAWER_____FOLDER_____

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BEST MANAGEMENT PRACTICES

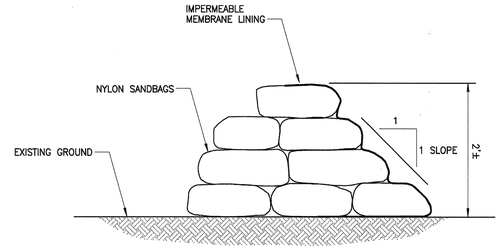
1. EROSION AND SEDIMENT CONTROL PRACTICES
   - A. CONSTRUCTION MANAGEMENT
     1) GRADING OPERATIONS SHALL BE PLANNED SO AS TO MINIMIZE TIME OF CONSTRUCTION.
     2) GRADING OPERATIONS SHALL BE PLANNED SO AS TO MINIMIZE SIZE OF THE DISTURBED AREA. THE AREA GRUBBED SHALL NOT EXTEND BEYOND WHAT WILL ACTUALLY REQUIRED FOR GRADING.
     3) THE PROJECT GRADING LIMITS SHALL BE STAKED PRIOR TO THE START OF CONSTRUCTION.
     4) UPON COMPLETION OF GRADING ALL EXPOSED AREAS WILL BE GRASSED AS REQUIRED.
   - B. STABILIZATION TECHNIQUES
     1) EXISTING GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 30 CALENDAR DAYS PRIOR TO THE START OF GRADING OPERATIONS.
     2) AREAS THAT REMAIN UNFINISHED FOR MORE THAN 21 CALENDAR DAYS WILL BE HYDROMULCHED TO PROVIDE TEMPORARY SOIL STABILIZATION BY NO LATER THAN THE 14TH DAY AFTER LAST DISTURBANCE.
     3) AFTER ACHIEVING FINISHED GRADES, ALL SLOPES AND EXPOSED AREAS SHALL BE PERMANENTLY STABILIZED BY HYDROMULCHING WITH GRASS SEED AS SOON AS PRACTICABLE.
   - C. STRUCTURAL CONTROLS
     1) SILT FENCES OR FILTER BERMS SHALL BE CONSTRUCTED ALONG THE ENTIRE DOWNSTREAM SIDE OF THE ACTIVE CONSTRUCTION ZONE IN AREAS WHERE ONSITE RUNOFF FLOWS INTO ADJOINING PROPERTIES. FILTER BAGS SHALL BE PLACED AT ALL EXISTING CURB–INLET CATCH BASIN OPENINGS TO REMOVE SILT FROM THE ONSITE RUNOFF.
   - D. INSPECTION AND MAINTENANCE PROCEDURES
     1) ALL CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AS NECESSARY. INSPECTIONS SHALL BE PERFORMED AT LEAST WEEKLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL 0.5 INCHES OR GREATER OVER A 24–HOUR PERIOD. CONTROL MEASURES SHALL BE CHECKED DAILY DURING PERIODS OF PROLONGED RAINFALL.
   - E. SCHEDULE FOR IMPLEMENTING CONTROLS
     1) EROSION AND SEDIMENT CONTROL MEASURES WILL BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
     2) THE FOLLOWING GENERAL ORDER SHOULD BE USED:
        - A. INSTALLATION OF TIRE CLEANING PAD.
        - B. INSTALLATION OF SILT FENCE AND FILTER BERMS.
        - C. GRADING MAY PROCEED.
2. DUST CONTROLS

   THE CONTRACTOR SHALL KEEP THE PROJECT AREA AND SURROUNDING AREAS FREE FROM DUST NUISANCE. THE FOLLOWING MITIGATIVE MEASURES WILL BE INCORPORATED:
   - A. USE TEMPORARY AREA SPRINKLERS IN NON–ACTIVE CONSTRUCTION AREAS WHEN GROUND COVER IS REMOVED.
   - B. CONSTRUCT DUST FENCES IF NECESSARY ALONG PROJECT SITE BOUNDARIES AFFECTED BY PREVAILING WIND DIRECTION.
   - C. STATION A WATER TRUCK ON SITE AT ALL TIMES DURING CONSTRUCTION PERIOD TO PROVIDE FOR IMMEDIATE SPRINKLING, AS NEEDED, IN ACTIVE CONSTRUCTION ZONES OR WHEREVER NEEDED ON THE CONSTRUCTION SITE (WEEKENDS AND HOLIDAYS INCLUDED).
   - D. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITIES HAVE CEASED FOR THE DAY AND ON WEEKENDS.
3. OTHER POLLUTION CONTROL PRACTICES
   - A. CONTRACTOR SHALL INSTALL DANDY BEAVER DAM OR DANDY BAG (OR APPROVED EQUAL) AT ALL NEW AND EXISTING INLETS AND DISCHARGE POINTS WHICH MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITY.
   - B. MAINTENANCE AND FUELING OF CONSTRUCTION EQUIPMENT SHALL BE PERFORMED ONLY IN DESIGNATED AREAS ENCLOSED BY A CONTAINMENT BERM CONSTRUCTED SO AS TO CONTAIN SPILLS AND PREVENT STORM WATER RUNOFF FROM CARRYING POLLUTANTS INTO DOWNSTREAM PROPERTIES

EROSION CONTROL

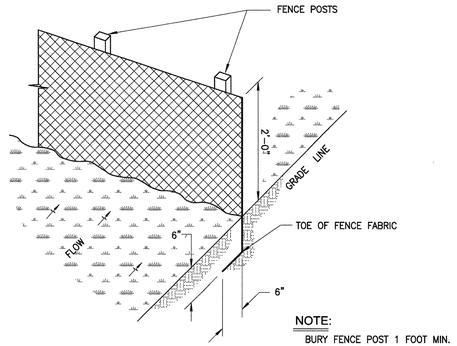
THE FOLLOWING MEASURES SHALL BE TAKEN TO CONTROL EROSION DURING THE SITE DEVELOPMENT PERIOD:

1. MINIMIZE TIME OF CONSTRUCTION.
2. RETAIN EXISTING GROUND COVER UNTIL LATEST DATE TO COMPLETE CONSTRUCTION.
3. EARLY CONSTRUCTION OF DRAINAGE CONTROL FEATURES.
4. USE TEMPORARY AREA SPRINKLERS IN NON–ACTIVE CONSTRUCTION AREAS WHEN GROUND COVER IS REMOVED.
5. STATION WATER TRUCK ON SITE DURING CONSTRUCTION PERIOD TO PROVIDE FOR IMMEDIATE SPRINKLING, AS NEEDED, IN ACTIVE CONSTRUCTION ZONES (WEEKENDS AND HOLIDAYS INCLUDED).
6. USE TEMPORARY BERMS AND CUT–OFF DITCHES, WHERE NEEDED, FOR CONTROL OF EROSION.
7. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND ON WEEKENDS.
8. ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED.



DETAIL – SPILL CONTAINMENT BERM (AS REQUIRED)

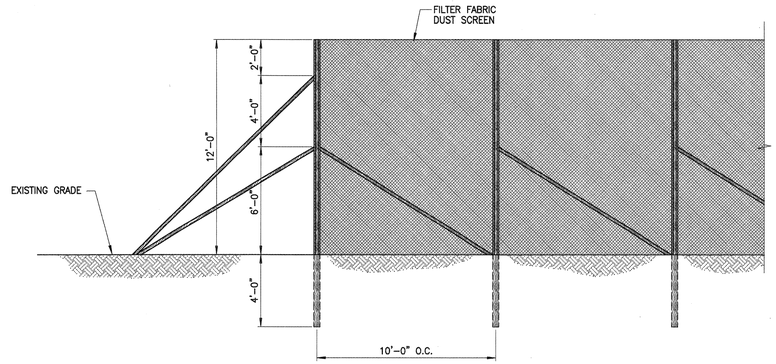
NOT TO SCALE



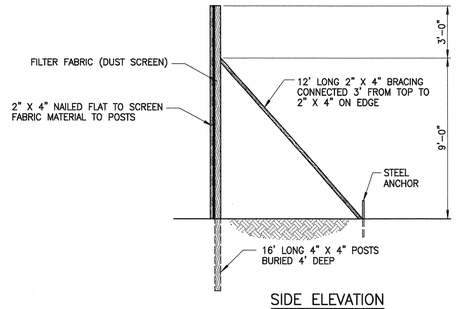
NOTE:
BURY FENCE POST 1 FOOT MIN.

DETAIL – SILT FENCE (AS REQUIRED)

NOT TO SCALE



FRONT ELEVATION



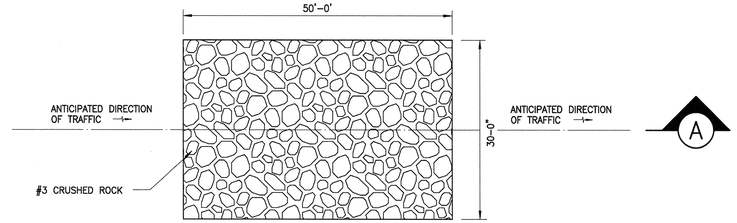
SIDE ELEVATION

DETAIL – DUST FENCE (AS REQUIRED)

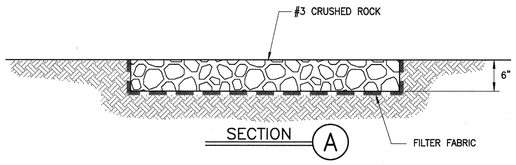
SCALE: 1/4" = 1'-0"

NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING A STRUCTURAL ENGINEER (LICENSED TO PRACTICE IN THE STATE OF HAWAII) TO DESIGN DUST FENCE AND SHALL SUBMIT STAMPED AND SIGNED DRAWINGS FOR DUST FENCE TO ENGINEER AND COUNTY OF MAUI FOR REVIEW AND APPROVAL, AND FOR SECURING ALL REQUIRED AGENCY PERMITS.

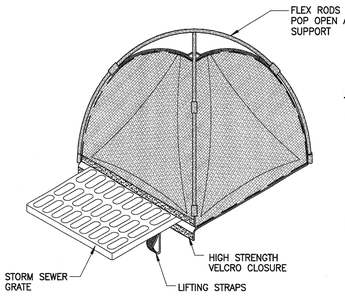


PLAN



DETAIL – TIRE CLEANING PAD (AS REQUIRED)

NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL INSPECT & MAINTAIN DANDY POP INLET PROTECTION SYSTEM ON A REGULAR BASIS TO ENSURE PROPER FUNCTION TO KEEP SILT, SEDIMENT AND CONSTRUCTION DEBRIS OUT OF THE STORM WATER SYSTEM. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM PANELS AND SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT OR AS DIRECTED BY ENGINEER/INSPECTOR (FOR OIL AND SEDIMENT MODEL; REMOVE AND REPLACE ABSORBENT WHEN NEAR SATURATION). DISPOSE OF UNIT NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY.
2. THE DANDY POP INLET PROTECTION UNIT SHALL ENCLOSE THE DRAIN INLET GRATE WITH THE GEOTEXTILE FABRIC.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW & APPROVAL PRIOR TO ORDERING MATERIALS.

DETAIL – "DANDY POP" INLET PROTECTION SYSTEM

NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

EROSION CONTROL DETAILS & NOTES

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-26
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 28 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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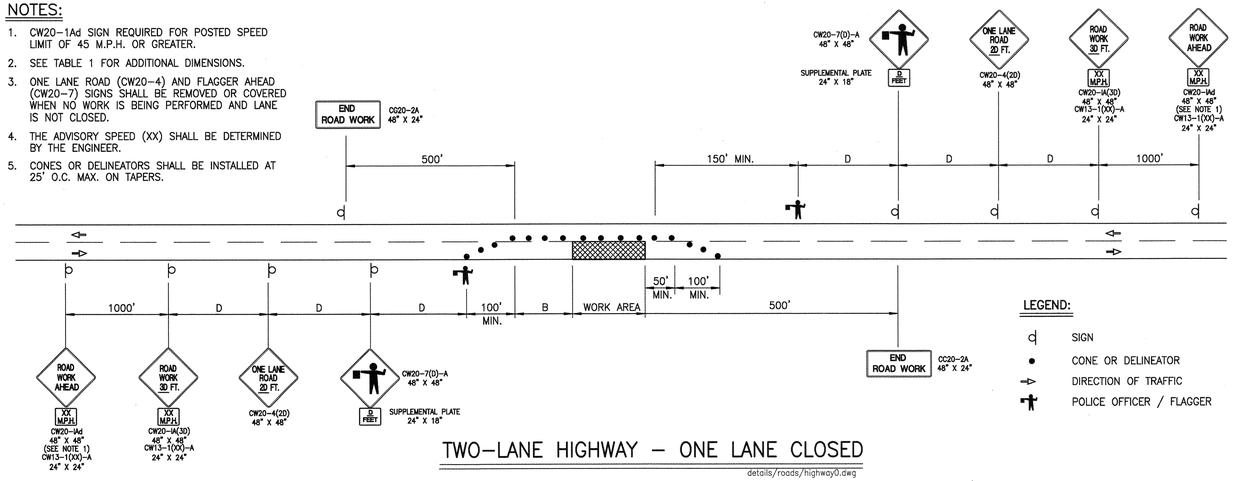
NOTES:

1. CW20-1Ad SIGN REQUIRED FOR POSTED SPEED LIMIT OF 45 M.P.H. OR GREATER.
2. SEE TABLE 1 FOR ADDITIONAL DIMENSIONS.
3. ONE LANE ROAD (CW20-4) AND FLAGGER AHEAD (CW20-7) SIGNS SHALL BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED AND LANE IS NOT CLOSED.
4. THE ADVISORY SPEED (XX) SHALL BE DETERMINED BY THE ENGINEER.
5. CONES OR DELINEATORS SHALL BE INSTALLED AT 25' O.C. MAX. ON TAPERS.



TWO-LANE HIGHWAY – ONE LANE CLOSED

details/roads/highway0.dwg

FIGURE 1 – TRAFFIC CONTROL PLAN

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1. THE PERMITEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
2. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
4. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF WORK.
5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
6. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
7. SIGNS SPACING (L), TAPER LENGTHS (T) AND SPACINGS OF CONES OR DELINEATORS SHALL BE AS SHOWN IN TABLE 1, UNLESS OTHERWISE NOTED ON THE TRAFFIC CONTROL PLANS.
8. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
9. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
10. THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
11. AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION.
12. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF WORK.
13. ANY PERMANENT STRIPING THAT HAS BEEN REMOVED AND IS NOT SCHEDULED FOR REPLACEMENT BY THE END OF EACH WORK DAY SHALL BE REPLACED BY TEMPORARY STRIPING.

TABLE 1 FOR TRAFFIC CONTROL PLAN

POSTED SPEED LIMIT ① (M.P.H)	SIGN SPACING (L) (FEET)	TAPER LENGTH (T) (FEET)		LONGITUDINAL BUFFER SPACE (B) (FEET)	SPACING OF CONES OR DELINEATORS (FEET) ③		
		W = 12' OR LESS ②	W = GREATER THAN 12' ②		TAPER	TANGENT	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

NOTE:

① USE ADVISORY SPEEDS WHEN POSTED.

② W = WIDTH OF LANE, SHOULDER, OR OFFSET.

③ NOT APPLICABLE FOR TWO-LANE HIGHWAYS.

TYPICAL TRAFFIC CONTROL PLAN WITHIN COUNTY RIGHT-OF-WAY

NOT TO SCALE

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DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TRAFFIC CONTROL PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. C-27
DESIGNED BY: DTO	CHECKED BY: DTU		
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 29 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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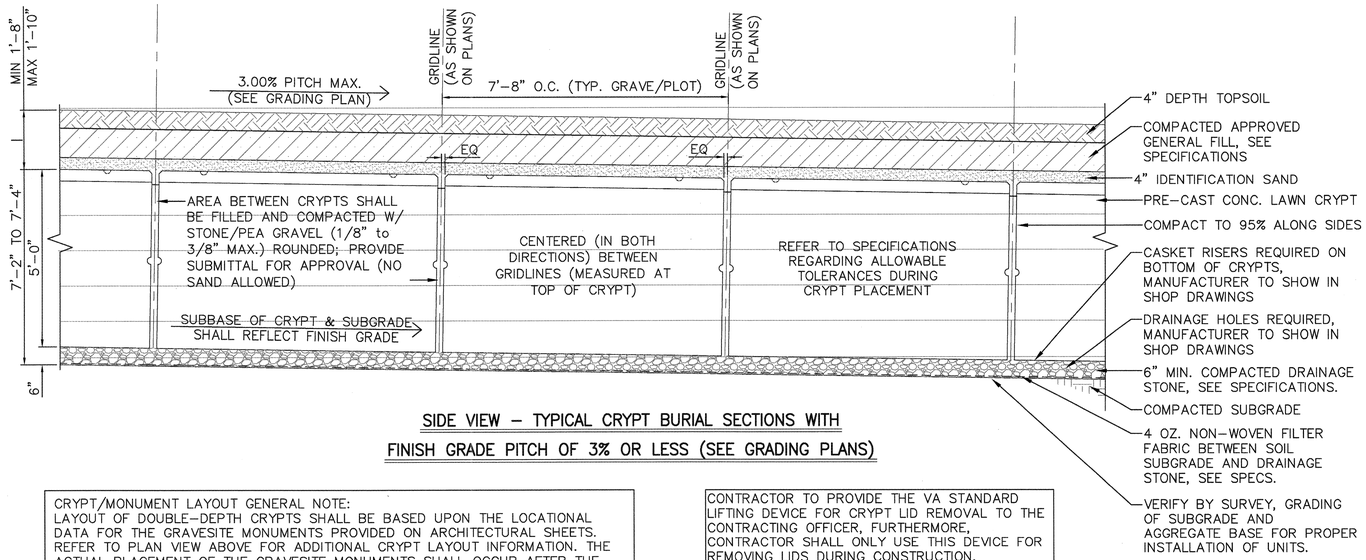
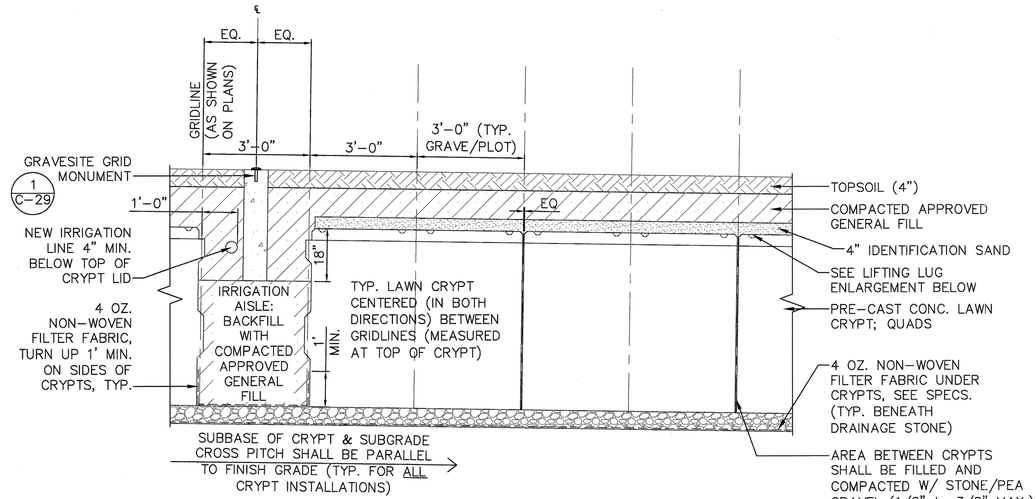


SIDE VIEW – TYPICAL CRYPT BURIAL SECTIONS WITH FINISH GRADE PITCH OF 3% OR LESS (SEE GRADING PLANS)

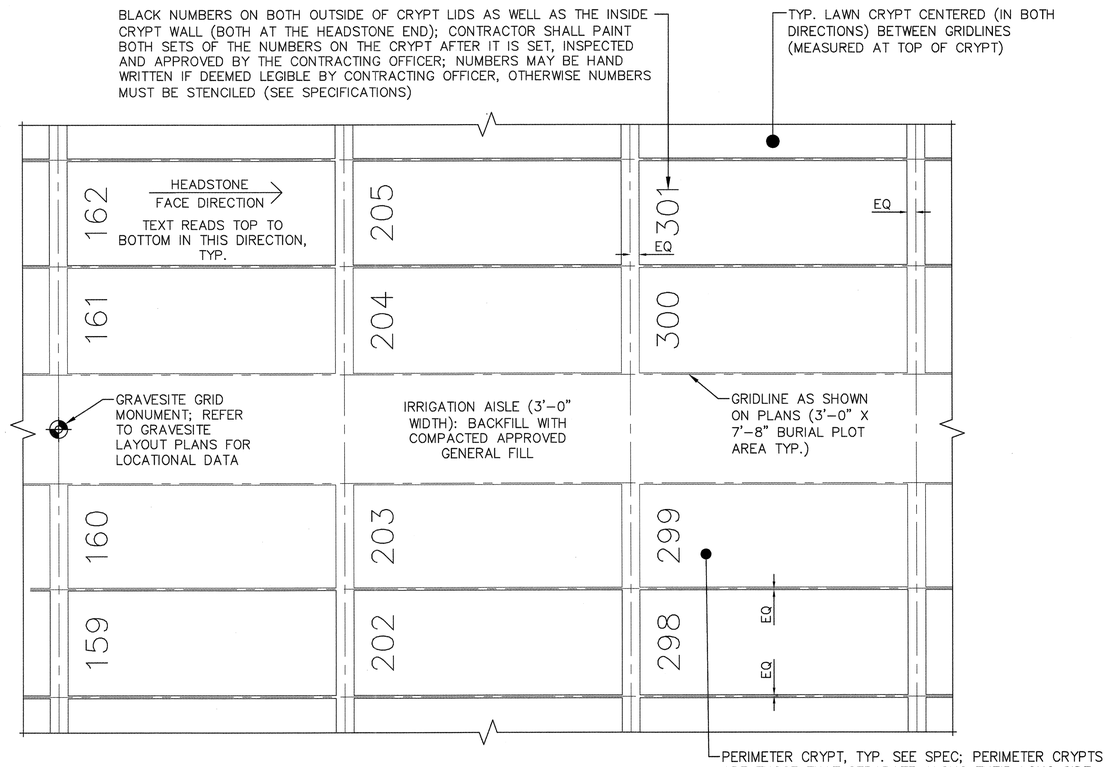


END VIEW

CRYPT/MONUMENT LAYOUT GENERAL NOTE:
LAYOUT OF DOUBLE-DEPTH CRYPTS SHALL BE BASED UPON THE LOCATIONAL DATA FOR THE GRAVESITE MONUMENTS PROVIDED ON ARCHITECTURAL SHEETS. REFER TO PLAN VIEW ABOVE FOR ADDITIONAL CRYPT LAYOUT INFORMATION. THE ACTUAL PLACEMENT OF THE GRAVESITE MONUMENTS SHALL OCCUR AFTER THE PLACEMENT OF ALL CRYPTS. TO ENSURE ACCURATE MONUMENT PLACEMENT, CONTRACTOR SHALL HAND-EXCAVATE SUFFICIENT MATERIAL (IN THE PROXIMITY OF EACH MONUMENT) TO EXPOSE THE CRYPT LIDS. REPLACE ALL EXCAVATED MATERIAL AFTER PLACEMENT OF MONUMENTS. MONUMENT PLACEMENT MUST BE BASED UPON THE ACTUAL INSTALLED CRYPT LOCATIONS. ANY DEVIATIONS (FROM THE PLANS) MUST BE RECORDED ON THE RECORD DRAWINGS.

CONTRACTOR TO PROVIDE THE VA STANDARD LIFTING DEVICE FOR CRYPT LID REMOVAL TO THE CONTRACTING OFFICER, FURTHERMORE, CONTRACTOR SHALL ONLY USE THIS DEVICE FOR REMOVING LIDS DURING CONSTRUCTION.

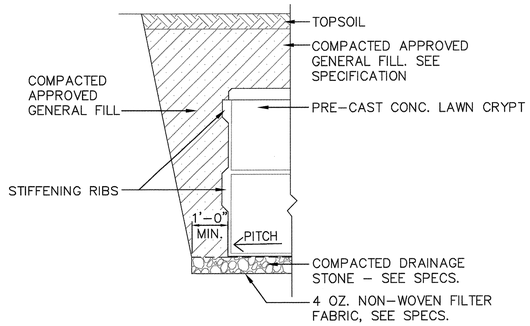
* MAINTAINING DEPTH OF COVER OVER ALL CRYPT LIDS IS CRITICAL; CONTRACTOR SHALL PROVIDE THE MEANS AND METHODS (AS APPROVED BY THE CONTRACTING OFFICER) TO VERIFY DEPTH OF COVER; DEFICIENCIES IN DEPTH (OR EXCESSES) SHALL BE REMEDIED (TO THE SATISFACTION OF THE RESIDENT INSPECTOR) PRIOR TO ACCEPTANCE OF CRYPT INSTALLATION.



PLAN VIEW

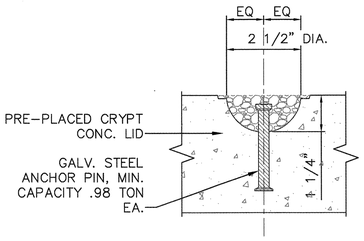
DOUBLE-DEPTH LAWN CRYPT INSTALLATION

NOT TO SCALE



CRYPT PERIMETER

NOT TO SCALE



LIFTING LUG DETAIL

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
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DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DOUBLE-DEPTH LAWN CRYPT INSTALLATION DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-28
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 30 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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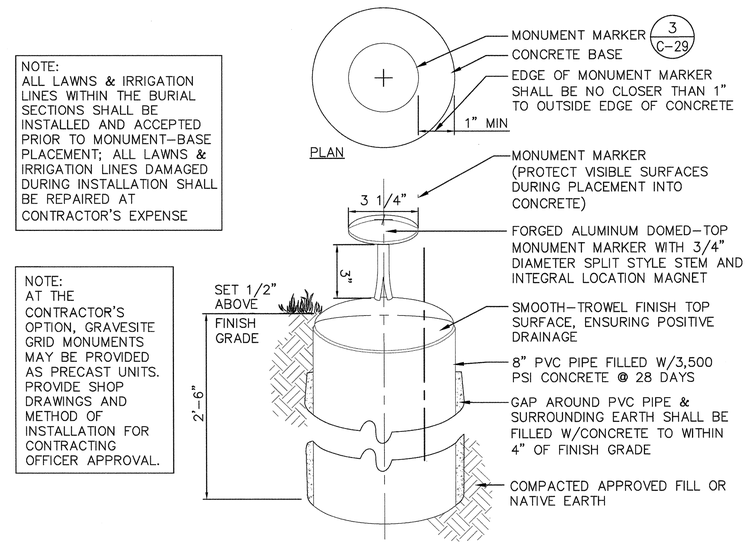
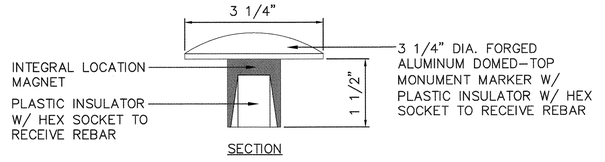
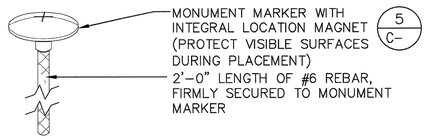
NOTE:
ALL LAWNS & IRRIGATION LINES WITHIN THE BURIAL SECTIONS SHALL BE INSTALLED AND ACCEPTED PRIOR TO MONUMENT–BASE PLACEMENT; ALL LAWNS & IRRIGATION LINES DAMAGED DURING INSTALLATION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE

NOTE:
AT THE CONTRACTOR'S OPTION, GRAVESITE GRID MONUMENTS MAY BE PROVIDED AS PRECAST UNITS. PROVIDE SHOP DRAWINGS AND METHOD OF INSTALLATION FOR CONTRACTING OFFICER APPROVAL.



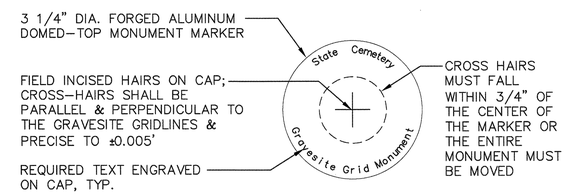
1 GRAVESITE GRID MONUMENT (IN CONCRETE)
NOT TO SCALE





*SEE NOTES FROM DETAIL 1 ON THIS SHEET FOR ADDITIONAL GUIDELINES ON PLACEMENT OF MARKER

2 GRAVESITE GRID MONUMENT
NOT TO SCALE



PLAN

3 MONUMENT MARKER
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAMREN T. UNEMORI
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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DOUBLE–DEPTH LAWN CRYPT INSTALLATION DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15–14–7509	C–29
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 31 OF 80 SHTS.
SCALE: AS NOTED			

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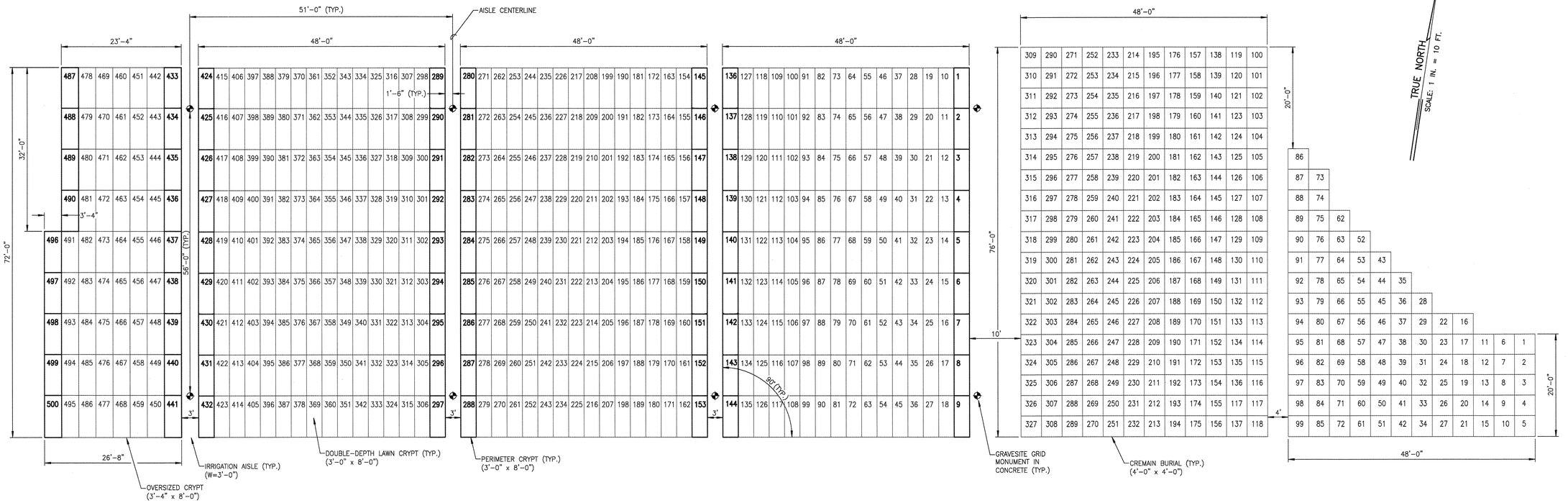
FILE_____ DRAWER_____ FOLDER_____



TRUE NORTH
SCALE: 1 IN. = 10 FT.

NOTES:

1. BURIAL NUMBERS 289 THROUGH 500 SHALL BE DESIGNATED AS THE PRIORITY SECTION.
2. CONTRACTOR SHALL PHASE CONSTRUCTION ACTIVITIES TO CONSTRUCT THE PRIORITY SECTION FIRST.

CRYPT LAYOUT

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
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NO. 7937-C
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MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

CRYPT LAYOUT

DESIGN PARTNERS INCORPORATED

DESIGNED BY: DTO	CHECKED BY: DTU	DAGS JOB NO. 15-14-7509	DRAWING NO. C-30
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 32 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

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CONSTRUCTION NOTES:

GENERAL SITEWORK:

1. THE CONTRACTOR SHALL OBTAIN THE FOLLOWING PERMITS FROM THE DEVELOPMENT SERVICES ADMINISTRATION (D.S.A.) OF THE DEPARTMENT OF PUBLIC WORKS (D.P.W.), COUNTY OF MAUI, BEFORE ANY WORK IS BEGUN:
   A. "WORK TO PERFORM ON COUNTY HIGHWAY PERMIT", TWO (2) WEEKS PRIOR TO COMMENCEMENT OF WORK ON
   B. "DRIVEWAY PERMIT", TWENTY-FOUR HOURS PRIOR TO COMMENCEMENT OF WORK ON ANY DRIVEWAY.
   C. "GRADING PERMIT", FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF ANY CLEARING AND GRUBBING. A SATISFACTORY DUST AND EROSION CONTROL PLAN AND/OR OUTLINE SHALL BE SUBMITTED BY THE CONTRACTOR.
2. EACH PHASE OF ROAD CONSTRUCTION IS TO BE APPROVED BY THE D.P.W., D.S.A., PRIOR TO WORKING ON THE NEXT PHASE OF ROAD CONSTRUCTION.
3. COMPACTION REQUIREMENTS: 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:
   A. EMBANKMENT/SELECT BORROW AND SUBGRADE MATERIALS: ONE (1) COMPACTION TEST PER 600 SQUARE YARDS PER LIFT.
   B. AGGREGATE SUBBASE COURSE: ONE (1) COMPACTION TEST PER 400 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT.
   C. AGGREGATE BASE COURSE: ONE (1) COMPACTION TEST PER 300 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT.
   D. ASPHALT CONCRETE PAVEMENT OR ASPHALT TREATED BASE COURSE: THREE (3) A.C. CORES FOR THICKNESS AND DENSITY TESTS PER PROJECT.
   E. TRENCH BACKFILL MATERIAL: ONE (1) TEST FOR EACH 300 LINEAL FEET OF TRENCH PER LIFT OF MATERIAL.

   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. 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. NONCOMPLIANCE WILL REQUIRE REMOVAL OF ALL SUBSEQUENT WORK TO CORRECT THE AREA OF FAILURE. ALL COSTS OF TESTING, REMOVAL, AND RECONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.
4. THE LATEST REVISIONS OF THE STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION SHALL BE INCLUDED AS PART OF THE CONSTRUCTION PLANS.
5. THE CONTRACTOR SHALL STRIPE STOP LINES, CROSSWALKS AND OTHER LINES, AS REQUIRED, AND SHALL INSTALL SIGNS IN ACCORDANCE WITH THE LATEST REVISIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, DATED DECEMBER 2009."
6. THE 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, ALL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, DATED DECEMBER 2009."
7. CONTRACTOR SHALL SUBMIT TO D.P.W., A STRIPING PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
8. THE DIRECTOR OF PUBLIC WORKS OR THE DIRECTOR OF WATER SUPPLY MAY STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLANS OR BE DETRIMENTAL TO THE PUBLIC INTEREST.
9. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DEVELOPMENT SERVICES ADMINISTRATION FIVE (5) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. RECORD DRAWINGS (ONE (1) TIFF COPY AND SEVEN (7) SETS OF PLANS) ARE TO BE SUBMITTED TO THE DEVELOPMENT SERVICES ADMINISTRATION PRIOR TO FINAL APPROVAL OF THE IMPROVEMENTS AS SHOWN ON THE APPROVED CONSTRUCTION PLANS.
11. BENCH MARKS SHALL BE ESTABLISHED AND CERTIFIED BY A REGISTERED SURVEYOR, AND SUBMITTED TO THE DEVELOPMENT SERVICES ADMINISTRATION.
12. PURSUANT OF MAUI COUNTY CODE SECTION 3.44.015(C), THE COUNTY OF MAUI IS 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 MAUI COUNTY COUNCIL HAS ACCEPTED ITS DEDICATION BY A RESOLUTION APPROVED BY A MAJORITY OF COUNCIL'S MEMBERS AT A REGULAR OR SPECIAL MEETING OF THE MAUI COUNTY COUNCIL.

EXISTING UTILITIES:

1. THE LOCATION, DEPTH AND TYPE OF THE VARIOUS EXISTING UTILITY LINES SHOWN ON THE CONSTRUCTION PLANS WERE DETERMINED ON THE BASIS OF THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, DEPTH AND TYPE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES BETWEEN THE EXISTING UTILITIES AS SHOWN ON THE CONSTRUCTION PLANS AND IN GROUND, AND NOT PROCEED WITH ANY FURTHER WORK UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM THE CONTRACTING OFFICER.
3. ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON PLANS, IF DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, SHALL BE REPAIRED SOLELY AT HIS EXPENSE.

ENVIRONMENTAL PROTECTION:

1. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE CHIEF ENVIRONMENTALIST SHALL BE BORNE BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL KEEP THE PROJECT AREA AND SURROUNDING AREAS FREE FROM DUST NUISANCE, ALL IN ACCORDANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
3. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS OF THE PUBLIC HEALTH REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND THE COUNTY'S GRADING ORDINANCE.
4. ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED OR WITHIN 14 DAYS OF LAST DISTURBANCE.
5. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT APPROPRIATE SITES. THE CONTRACTOR SHALL INFORM THE OWNER OF THE LOCATION OF DISPOSAL SITES. THE DISPOSAL SITE SHALL ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
6. THE CONTRACTOR SHALL NOT DEMOLISH OR CLEAR ANY STRUCTURE, SITE, OR VACANT LOT WITHOUT FIRST ASCERTAINING THE PRESENCE OR ABSENCE OF RODENTS WHICH MAY ENDANGER THE PUBLIC HEALTH BY DISPERSAL FROM SUCH PREMISES. SHOULD SUCH INSPECTION REVEAL THE PRESENCE OF SUCH RODENTS, THE CONTRACTOR SHALL ERADICATE SUCH RODENTS BEFORE DEMOLISHING OR CLEARING SAID STRUCTURE, SITE OR VACANT LOT.

WATER SYSTEM:

1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER SUPPLY (DWS), IN WRITING, ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.
2. ALL MATERIALS USED AND METHODS OF CONSTRUCTION OF WATER SYSTEM FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF DWS STANDARDS. CONTRACTOR SHALL OBTAIN THE LATEST REVISIONS OF THE DWS STANDARD DETAILS BEFORE COMMENCING CONSTRUCTION.
3. ALL WATER SYSTEM WORK SHALL BE PERFORMED BY CONTRACTORS POSSESSING VALID STATE OF HAWAII CONTRACTOR'S LICENSES, REGARDLESS OF THE VALUE OF THE WORK.
4. 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 OTHER UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE NEW WATERLINE, UNLESS NOTED OTHERWISE, AND WILL NOT BE PAID FOR SEPARATELY.
5. CONCRETE FOR REACTION BLOCKS AND ANCHOR BLOCKS SHALL BE DWS CLASS 2500.
6. THE MAXIMUM DISTANCE BETWEEN VALVE AND NUT AND TOP OF VALVE MANHOLE COVER SHALL BE THREE (3) FEET.
7. THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST TO DWS FOR APPROVAL PRIOR TO CONSTRUCTION.
8. CONNECTION TO DWS SYSTEM:
   A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY FITTINGS AND OTHER MATERIALS AND EQUIPMENT REQUIRED FOR THE HOOK-UP. HE SHALL VERIFY THE EXACT LOCATION, DEPTH, TYPE, AND CONDITION OF THE EXISTING LINE BEFORE ORDERING MATERIALS FOR THE HOOK-UP. HE 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. AUTHORIZED DWS PERSONNEL MAY BE REQUIRED TO MAKE THE FINAL CONNECTION TO THE EXISTING LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY DWS FOR SAID WORK, INCLUDING THE COST OF PRESSURE TESTING AND DISINFECTION.
   D. IF THE DWS PROVIDES ONLY INSPECTION AND SUPERVISING OPERATORS, AND DOES NOT PROVIDE PERSONNEL FOR THE ACTUAL CONNECTION, THE CONTRACTOR SHALL PROVIDE ALL PIPEFITTERS AND LABORS TO MAKE THE CONNECTION.
   E. 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.
9. MINIMUM COVER OVER WATER MAIN, 6" DIAMETER OR LARGER, SHALL BE 3'-0". MINIMUM COVER FOR 4" DIAMETER SHALL BE 2'-6". MINIMUM COVER FOR DIAMETERS LESS THAN 4" SHALL BE 1'-6".
10. BOLTS FOR EXPOSED FLANGED DUCTILE IRON PIPE JOINTS SHALL BE EITHER SILICON BRONZE BOLTS AND NUTS OR 316 STAINLESS STEEL BOLTING 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 FOLLOWING SYSTEMS:
    A. 316 STAINLESS STEEL T-BOLTS WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE USED.
    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 T-BOLTS.
    C. COR-TEN T-BOLTS AND NUTS BOTH FACTORY COATED WITH TRIPAC 2000 BLUE COATING SYSTEM BY "TRIPAC FASTENERS".
11. ALL BURIED METALS SHALL BE WRAPPED WITH POLY-WRAP. FOR ALL BURIED INSTALLATIONS OF DUCTILE IRON PIPE AND FITTINGS, POLY-WRAP IS REQUIRED EXCEPT WITHIN CONCRETE JACKETS.
12. LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.
13. THE CONTRACTOR SHALL PAINT AND NUMBER THE FIRE HYDRANT. NUMBERING TO BE FURNISHED BY DWS.
14. 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 PERFORMED AT 225 POUNDS PER SQUARE INCH PRESSURE.
15. THE DEVELOPER SHALL SUBMIT A COST LIST ALONG WITH AN AFFIDAVIT FOR THE WATER SYSTEM PRIOR TO ACCEPTANCE.
16. THE CONTRACTOR SHALL SUBMIT TWO SETS OF RECORD DRAWINGS VIA A CONSULTANT PRIOR TO ACCEPTANCE OF THE WATER SYSTEM. AN ELECTRONIC IMAGE FILE IN TIF FORMAT SHALL BE PROVIDED TO THE DWS FOR ALL PROJECTS.

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.

CLEARING AND GRUBBING:

1. NO CLEARING AND GRUBBING MATERIALS SHALL BE DEPOSITED IN COUNTY SANITARY LANDFILLS. CONTRACTOR SHALL MAKE THEIR OWN ARRANGEMENTS FOR SATISFACTORY DEPOSIT OF SAME.

EXISTING GRADES:

1. EXISTING GRADES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH GRADING WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED IN THE EXISTING GRADES OR DIMENSIONS GIVEN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER BEFORE PROCEEDING FURTHER WITH ANY WORK, OTHERWISE HE WILL BE HELD RESPONSIBLE FOR ANY COST INVOLVED IN CORRECTION OF CONSTRUCTION PLACED DUE TO SUCH DISCREPANCIES.

EROSION CONTROL:

THE FOLLOWING MEASURES SHALL BE TAKEN TO CONTROL EROSION DURING THE SITE DEVELOPMENT PERIOD:

1. MINIMIZE TIME OF CONSTRUCTION.
2. RETAIN EXISTING GROUND COVER UNTIL LATEST DATE TO COMPLETE CONSTRUCTION.
3. EARLY CONSTRUCTION OF DRAINAGE CONTROL FEATURES.
4. USE TEMPORARY AREA SPRINKLERS IN NON-ACTIVE CONSTRUCTION AREAS WHEN GROUND COVER IS REMOVED.
5. STATION WATER TRUCK ON SITE DURING CONSTRUCTION PERIOD TO PROVIDE FOR IMMEDIATE SPRINKLING, AS NEEDED, IN ACTIVE CONSTRUCTION ZONES (WEEKENDS AND HOLIDAYS INCLUDED).
6. USE TEMPORARY BERMS AND CUT-OFF DITCHES, WHERE NEEDED, FOR CONTROL OF EROSION.
7. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND ON WEEKENDS.
8. ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED.

EARTHWORK:

DISTANCE FROM TOP OF CUT OR BOTTOM OF FILL TO PROPERTY LINE:

HEIGHT OF CUT OR FILL	DISTANCE FROM PROPERTY LINE
0' TO 2':	1'
MORE THAN 2' TO 4':	2'
MORE THAN 4' TO 6':	3'
MORE THAN 6' TO 10':	4'
MORE THAN 10' TO 15':	5'
MORE THAN 15':	8'

NOTE:

SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS AND MOUNDS, OR REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF CHARCOAL OR SHELLS ARE ENCOUNTERED DURING CONSTRUCTION WORK, WORK SHALL CEASE IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (243-5169), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

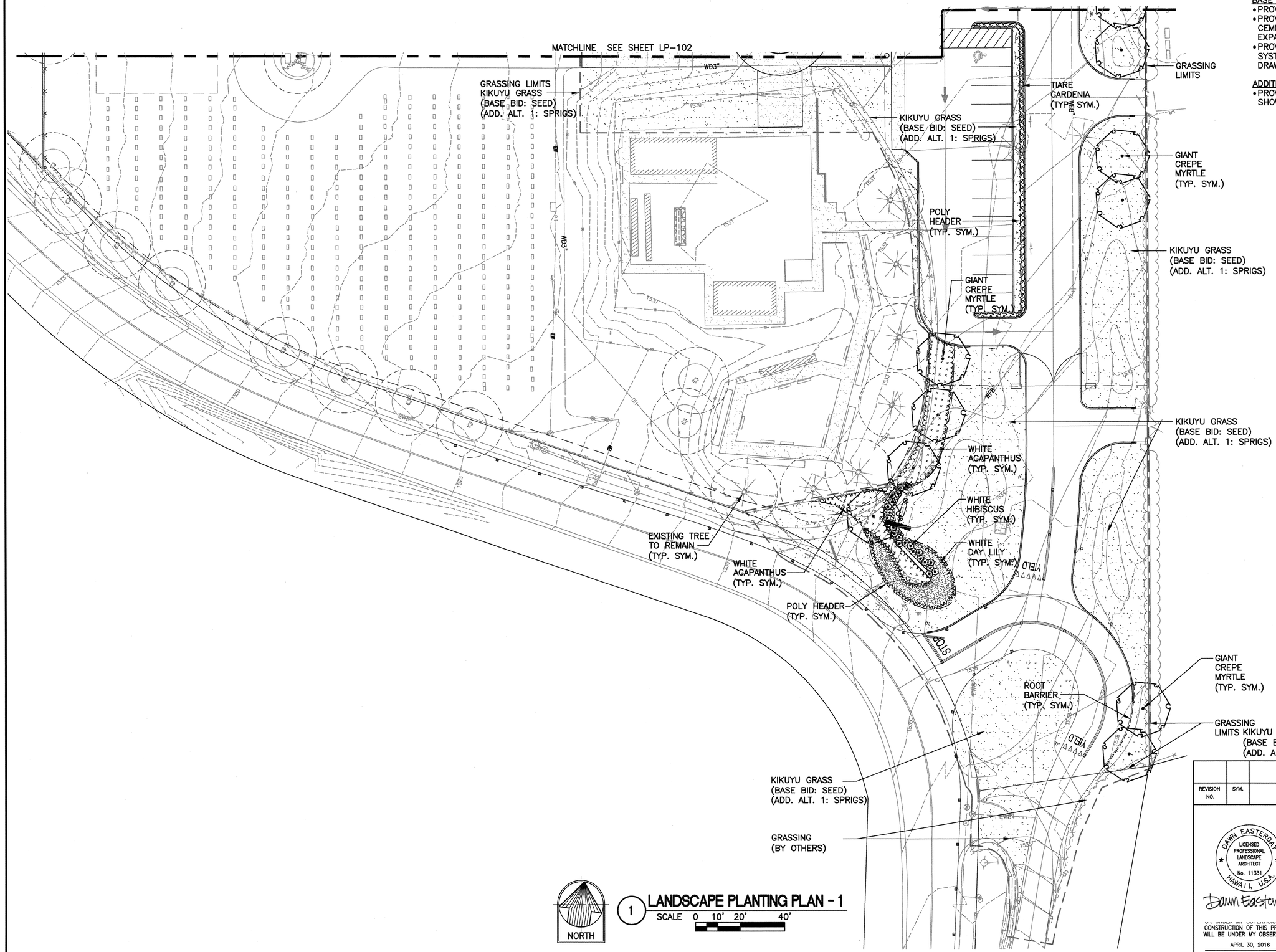
MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

GENERAL CONSTRUCTION NOTES

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DTO	CHECKED BY: DTU	15-14-7509	C-31
DRAWN BY: WIS	APPROVED BY: DTU	DATE: OCTOBER 2014	SHEET 33 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

V:\Projdata\12proj\12056 - Maui Veterans Cemetery\dwg\conplans\NOTES-00.dwg



BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
- PROVIDE AND PLANT SPRIGS OF KIKUYU GRASS, AS SHOWN ON DRAWINGS.

1 **LANDSCAPE PLANTING PLAN - 1**
SCALE 0 10' 20' 40'

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE PLANTING PLAN - 1

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

I HEREBY CERTIFY THAT FOR THIS CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

BELT COLLINS HAWAII LLC		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: DE	CHECKED BY: DE	15-14-7509	LP-101
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 34 OF 80 SHTS.
SCALE: AS NOTED			

MATCHLINE SEE SHEET LP-103

MATCHLINE SEE SHEET LP-103

KIKUYU GRASS
(BASE BID: SEED)
(ADD. ALT. 1: SPRIGS)

GIANT CREPE
MYRTLE
(TYP. SYM.)

GRASSING
LIMITS
KIKUYU GRASS
(BASE BID: SEED)
(ADD. ALT. 1: SPRIGS)

KIKUYU GRASS
(BASE BID: SEED)
(ADD. ALT. 1: SPRIGS)

ROOT
BARRIER
(TYP. SYM.)

POLY
HEADER
(TYP. SYM.)

TIARE
GARDENIA
(TYP. SYM.)

GIANT CREPE
MYRTLE
(TYP. SYM.)

GRASSING
LIMITS
KIKUYU GRASS
(BASE BID: SEED)
(ADD. ALT. 1: SPRIGS)

KIKUYU GRASS
(BASE BID: SEED)
(ADD. ALT. 1: SPRIGS)

GRASSING
LIMITS

EXISTING TREE
TO REMAIN
(TYP. SYM.)

GIANT CREPE
MYRTLE
(TYP. SYM.)

MATCHLINE SEE SHEET LP-101

BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
- PROVIDE AND PLANT SPRIGS OF KIKUYU GRASS, AS SHOWN ON DRAWINGS.

NORTH

1 **LANDSCAPE PLANTING PLAN - 2**
SCALE 0 10' 20' 40'

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

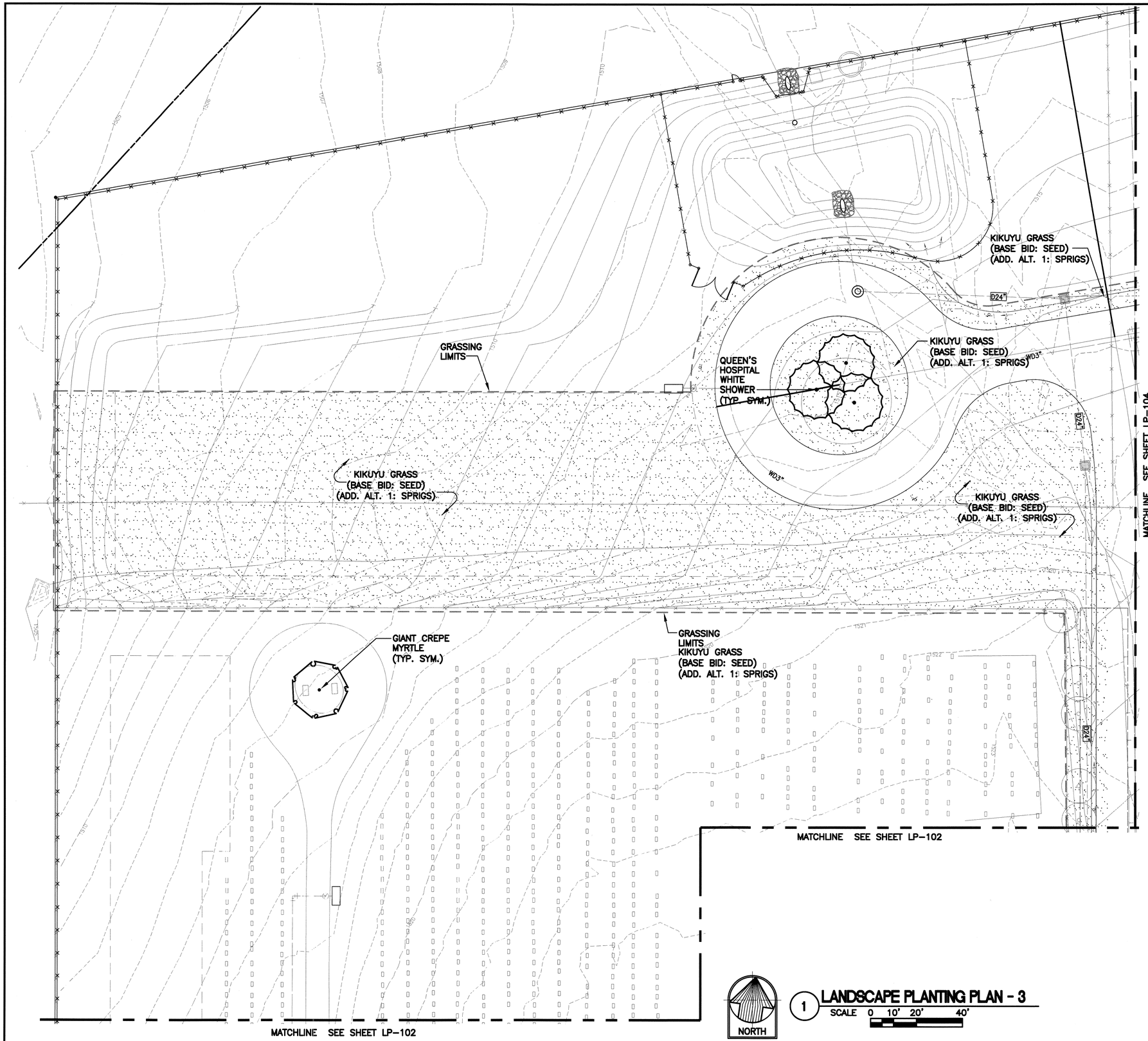
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE PLANTING PLAN - 2

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LP-102
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 35 OF 80 SHTS.
SCALE: AS NOTED			

FILE____ DRAWER____ FOLDER____



BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
- PROVIDE AND PLANT SPRIGS OF KIKUYU GRASS, AS SHOWN ON DRAWINGS.

NORTH

1 **LANDSCAPE PLANTING PLAN - 3**
SCALE 0 10' 20' 40'

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

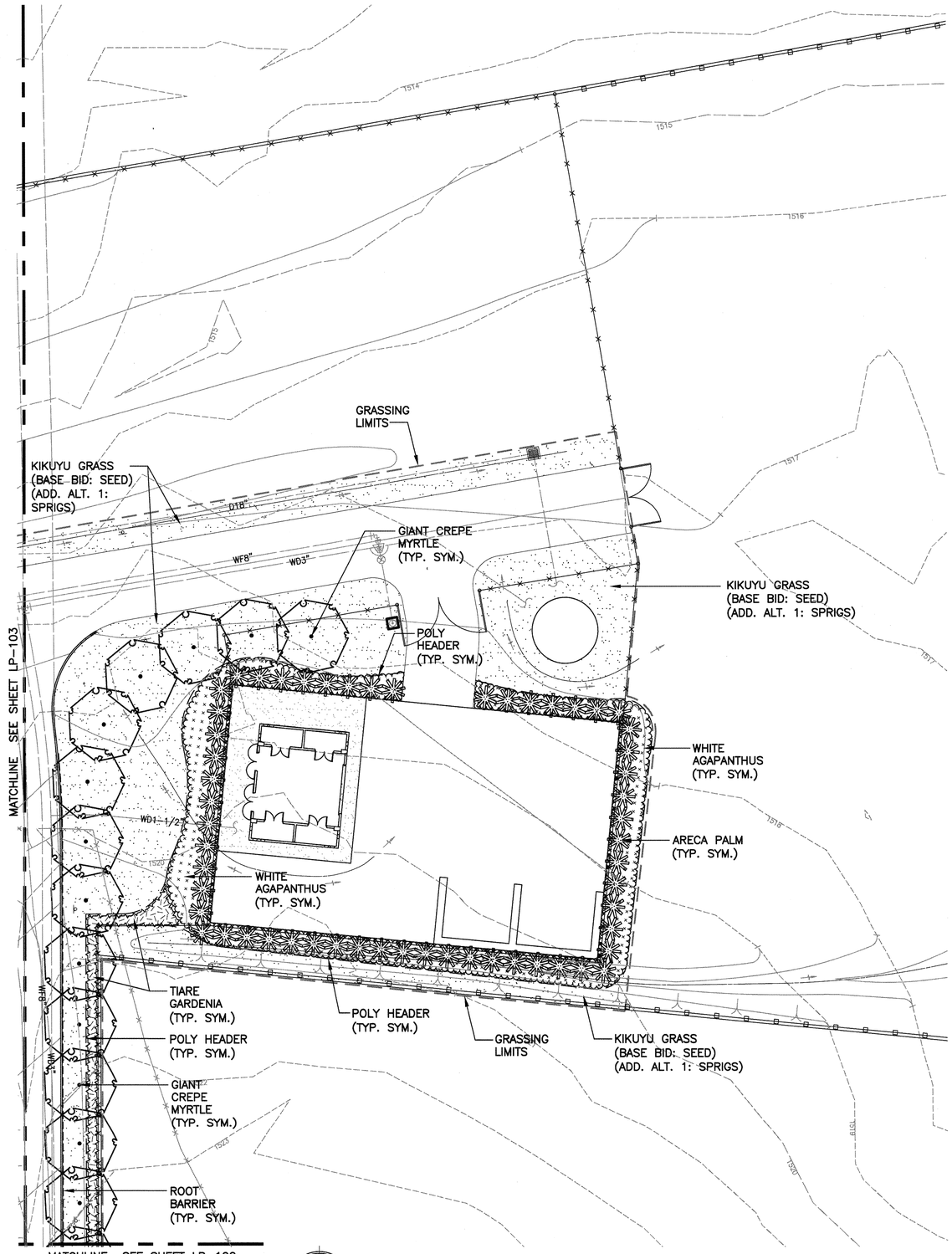
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE PLANTING PLAN - 3

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LP-103
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 36 OF 80 SHTS.
SCALE: AS NOTED			

FILE____DRAWER____FOLDER____



NORTH

1 LANDSCAPE PLANTING PLAN - 4

SCALE 0 10' 20' 40'

BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
- PROVIDE AND PLANT SPRIGS OF KIKUYU GRASS, AS SHOWN ON DRAWINGS.

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

I HEREBY CERTIFY THAT FOR THIS CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

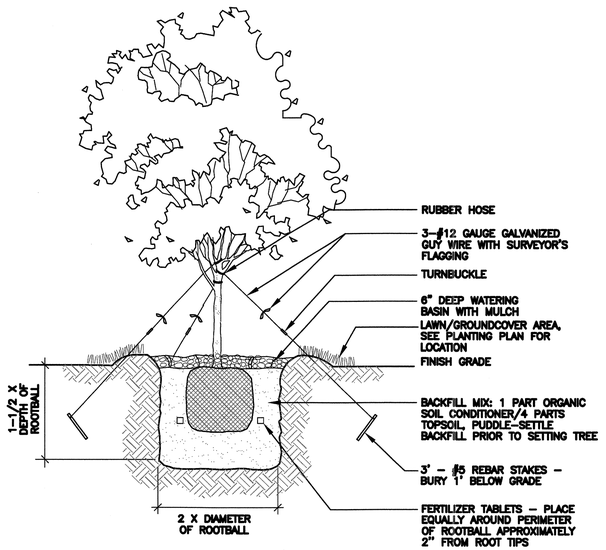
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

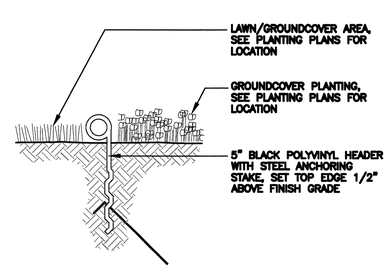
MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE PLANTING PLAN - 4

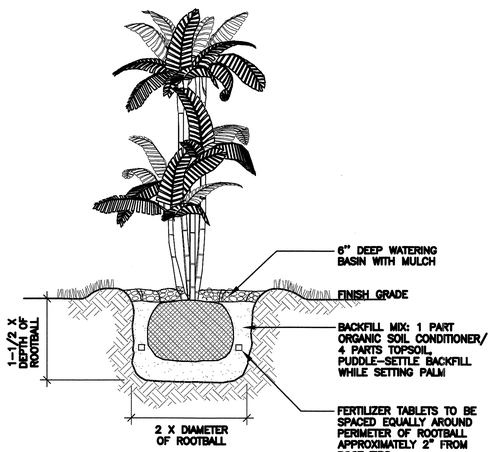
BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LP-104
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 37 OF 80 SHTS.
SCALE: AS NOTED			



1 LP-501 **TREE GUYING DETAIL**
NOT TO SCALE

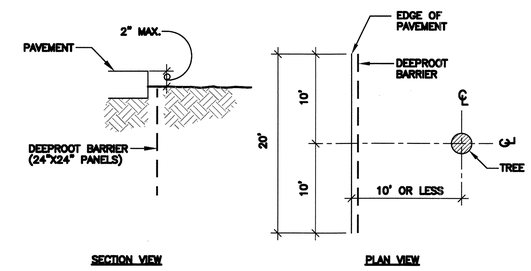


4 LP-501 **POLY HEADER DETAIL**
NOT TO SCALE



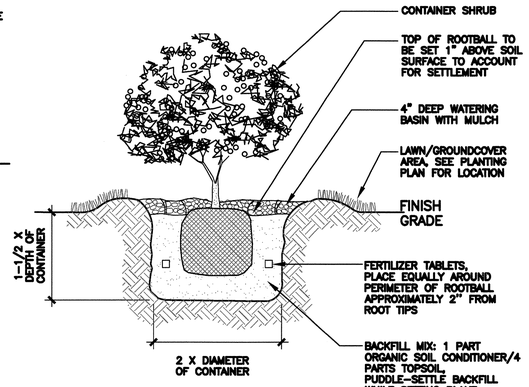
NOTE: TRIM OFF ALL DEAD FRONDS, FLOWER STALKS AND FRUITS PRIOR TO PLANTING.

2 LP-501 **PALM PLANTING DETAIL**
NOT TO SCALE

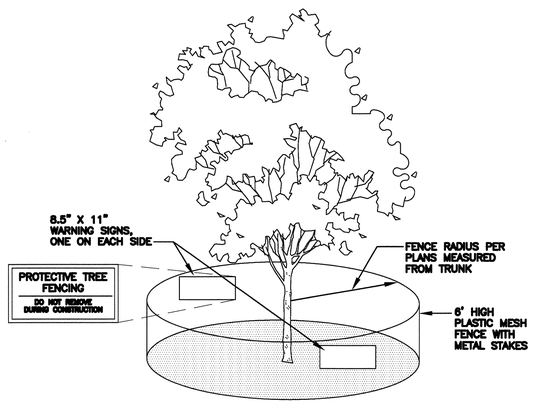


NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS.

3 LP-501 **ROOT BARRIER DETAIL**
NOT TO SCALE



5 LP-501 **SHRUB PLANTING DETAIL**
NOT TO SCALE



6 LP-501 **TREE PROTECTION DETAIL**
NOT TO SCALE

PLANT MATERIAL LIST (BASE BID)

TOTAL QTY		BOTANICAL NAME	COMMON NAME	SIZE	CALIPER	HEIGHT	SPACING	REMARKS
TREES								
41	EA	LAGERSTROEMIA INDICA	GIANT CREPE MYRTLE	25 GAL.	2"–3"	7'–8'		STRAIGHT TRUNK, FIRST BRANCHING 5'–6' HT
3	EA	CASSIA X NEALIAE	QUEEN'S HOSPITAL WHITE SHOWER	25 GAL.	2" MIN	7'–8'		STRAIGHT TRUNK, FIRST BRANCHING 5'–6' HT
PALMS								
57	EA	CHRYSALIDOCARPUS LUTESCENS	ARECA PALM	25 GAL.				FULL, MULTI–TRUNK
SHRUBS								
23	EA	HIBISCUS ARNOTTIANUS	WHITE HIBISCUS	5 GAL.			18" O.C.	FULL, BUSHY
440	EA	GARDENIA AUGUSTA	TIARE GARDENIA	2 GAL.			18" O.C.	FULL, BUSHY
5,749	SF	AGAPANTHUS SPP.	WHITE AGAPANTHUS	3 GAL.			12" O.C.	FULL, BUSHY
GROUNDCOVERS								
866	SF	HEMEROCALLIS SPP.	WHITE DAY LILY	1 GAL.			12" O.C.	FULL, BUSHY
54,658	SF	PENNISETUM CLANDESTINUM	KIKUYU GRASS	SEED				HYDROMULCH
MISCELLANEOUS ITEMS								
63,430	SF	SOIL PREPARATION (1" OF ORGANIC SOIL CONDITIONER & FERTILIZER TO BE SPREAD AND TILLED 6" DEEP INTO SOIL)						
1,410	LF	POLY HEADER						
480	LF	ROOT BARRIER (24" DEEPROOT)						

PLANT MATERIAL LIST (ADDITIVE ALTERNATE NO. 1)

TOTAL QTY		BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
GROUNDCOVERS					
54,658	SF	PENNISETUM CLANDESTINUM	KIKUYU GRASS	SPRIGS	

TREE PROTECTION NOTES:

1. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN THE TREE PROTECTION PLAN AND CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
2. ALL EXISTING TREES AND PLANTINGS NOTED TO REMAIN SHALL BE PROTECTED FROM DAMAGE. NO STOCKPILING, STORAGE, DRIVING OR PARKING VEHICLES WITHIN THE DRIP LINE OF THE TREE OR WITHIN THE TREE PROTECTION FENCING.
3. THE LANDSCAPE CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING PRIOR TO DEMOLITION AND GRADING OPERATIONS AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FENCE AND THE TREES OR SHRUBS. THIS INCLUDES REGULAR WATERING AND FERTILIZING SCHEDULE AND PEST/DISEASE CONTROL AS REQUIRED UNTIL THE END OF THE FORMAL MAINTENANCE PERIOD.
4. CONTRACTOR'S CERTIFIED ARBORIST SHALL BE ON–SITE TO MONITOR ANY TRENCHING, EXCAVATION OR GRADING ACTIVITIES THAT FALL WITHIN THE DRIP LINE OF TREES TO REMAIN. NOTIFY OWNER'S REPRESENTATIVE FIVE DAYS PRIOR TO ACTUAL WORK. IN TRENCHING AREAS ROOTS BETWEEN 1"–2" DIAMETER MUST BE PRUNED AND CUT CLEAN, THEY SHALL NOT BE CRUSHED, PULLED OR RIPPED BY EXCAVATION EQUIPMENT. ROOTS OVER 2" DIAMETER MUST BE PROTECTED IN PLACE BY HAND EXCAVATION, AIR SPADE, OR SKILLFUL USE OF SMALL EQUIPMENT.
5. IF EQUIPMENT IS USED WITHIN THE DRIP LINE OR TREE PROTECTION ZONE, A 4" LAYER OF WOOD CHIP MULCH SHALL BE SPREAD OVER THE GROUND AND A METAL PLATE PLACED OVER THE MULCH IN AREAS NECESSARY FOR EQUIPMENT TRAFFIC TO PROTECT THE SOIL FROM COMPACTION.
6. PROTECT EXISTING IRRIGATION SYSTEM FROM DAMAGE. IF AUTOMATIC IRRIGATION IS DISCONTINUED DURING CONSTRUCTION AT ANY TIME, LANDSCAPE CONTRACTOR SHALL HAND WATER REGULARLY UNTIL THE SYSTEM IS RESTORED TO OPERATION.

PLANTING NOTES:

1. BACKFILL MIX SHALL CONSIST OF THREE (3) PARTS OF AMENDED IMPORTED PLANTING SOIL TO ONE (1) PART ORGANIC SOIL CONDITIONER (SEE SPECIFICATIONS). ADD ONE (1) POUND OF 10–30–10 FERTILIZER TO ONE (1) CUBIC YARD OF BACKFILL MIX. MIX THOROUGHLY ON PROJECT SITE PRIOR TO ANY PLANTING OPERATIONS.
2. PLANTING TABLETS FOR TREES, PALMS, AND SHRUBS SHALL BE AS FOLLOWS:

A)	FIELD SPECIMEN	12 TABLETS
B)	25 GALLON	8 TABLETS
C)	15 GALLON	5 TABLETS
D)	5 GALLON	3 TABLETS
E)	3 GALLON	2 TABLETS
F)	1 GALLON	1 TABLET

   USE SLOW RELEASE FERTILIZER TABLETS 20–10–5, 21 GRAM SIZE.

4. GROUNDCOVER SHALL BE PLANTED UNDER ALL TREES, PALMS AND SHRUBS (UNLESS OTHERWISE NOTED ON PLANS).
5. QUANTITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL PERFORM ITS OWN QUANTITY ESTIMATES FOR THE PURPOSES OF BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PLANTS AND OTHER MATERIALS IN THE QUANTITIES NECESSARY TO COMPLETE THE INSTALLATION AS SHOWN ON THE DRAWINGS.
6. ALL DISTURBED AREAS SHALL BE STABILIZED AND PLANTED WITH GRASS SEED (BASE BID) OR SPRIGS (ADD ALT NO. 1) UNLESS OTHERWISE NOTED ON PLANS.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

I HEREBY CERTIFY THAT THE CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

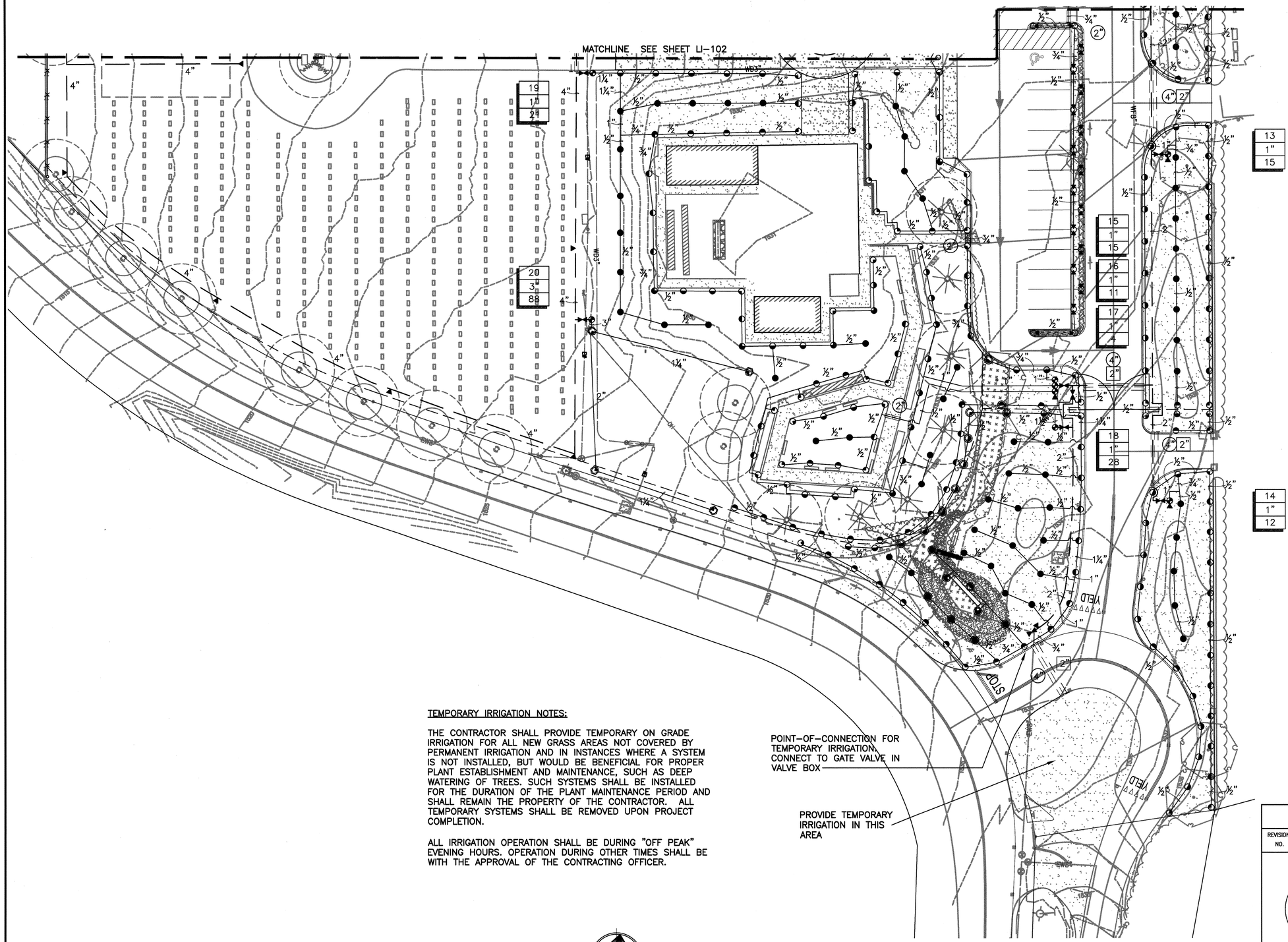
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

PLANT MATERIAL LIST, DETAILS, AND NOTES

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15–14–7509	DRAWING NO. LP–501
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 38 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____



BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
- PROVIDE AND PLANT SPRIGS OF KIKUYU GRASS, AS SHOWN ON DRAWINGS.

TRENCHING NOTE:
USE CARE TO LIMIT DAMAGE IN NEWLY GRASSED AREAS. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

TEMPORARY IRRIGATION NOTES:

THE CONTRACTOR SHALL PROVIDE TEMPORARY ON GRADE IRRIGATION FOR ALL NEW GRASS AREAS NOT COVERED BY PERMANENT IRRIGATION AND IN INSTANCES WHERE A SYSTEM IS NOT INSTALLED, BUT WOULD BE BENEFICIAL FOR PROPER PLANT ESTABLISHMENT AND MAINTENANCE, SUCH AS DEEP WATERING OF TREES. SUCH SYSTEMS SHALL BE INSTALLED FOR THE DURATION OF THE PLANT MAINTENANCE PERIOD AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. ALL TEMPORARY SYSTEMS SHALL BE REMOVED UPON PROJECT COMPLETION.

ALL IRRIGATION OPERATION SHALL BE DURING "OFF PEAK" EVENING HOURS. OPERATION DURING OTHER TIMES SHALL BE WITH THE APPROVAL OF THE CONTRACTING OFFICER.

POINT-OF-CONNECTION FOR TEMPORARY IRRIGATION. CONNECT TO GATE VALVE IN VALVE BOX

PROVIDE TEMPORARY IRRIGATION IN THIS AREA

NORTH

LANDSCAPE IRRIGATION PLAN - 1

0 10' 20' 40'

SCALE: 1"=20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

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APRIL 30, 2016

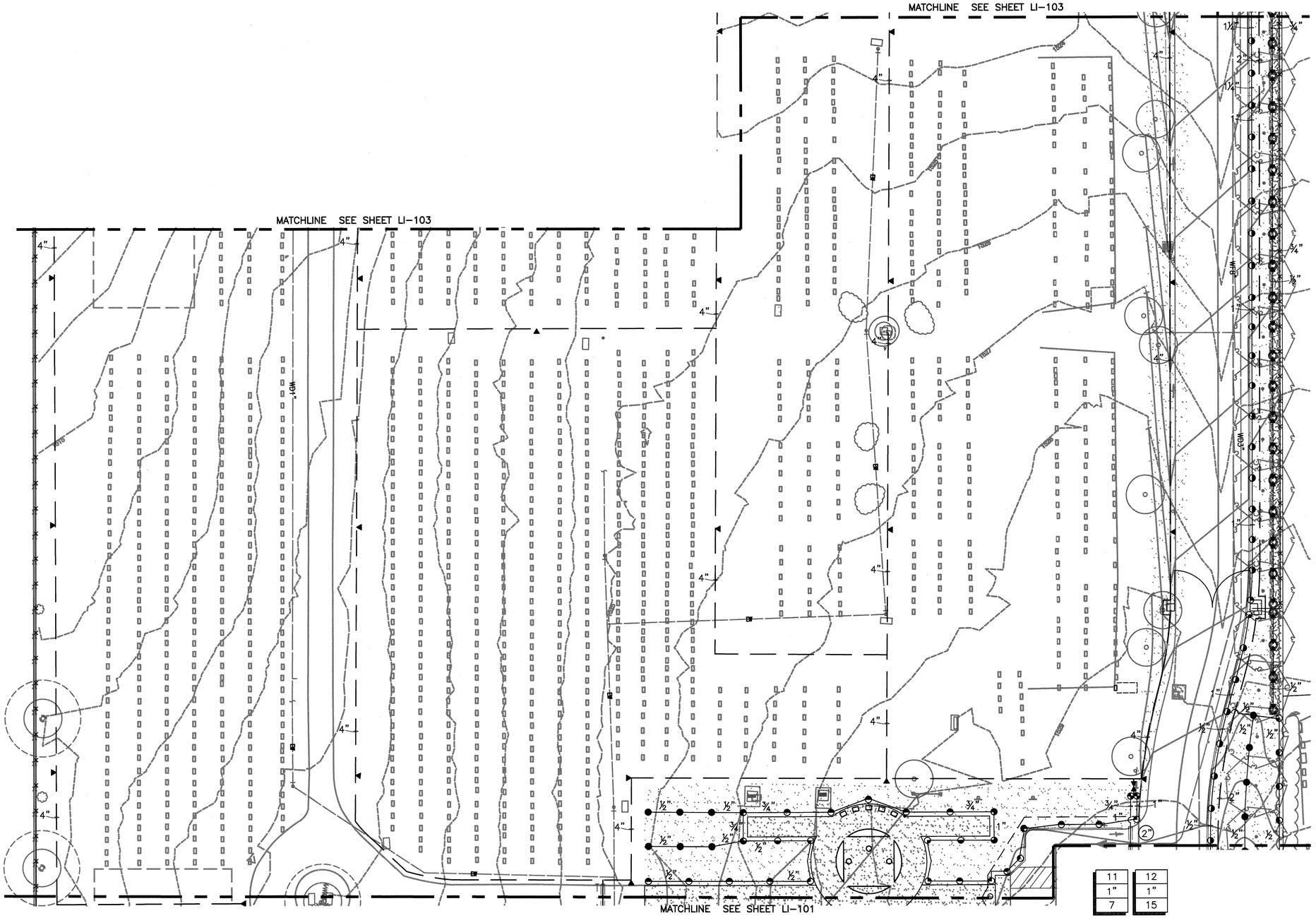
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 1

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-101
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 39 OF 80 SHTS.
SCALE: AS NOTED			



BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
- PROVIDE AND PLANT SPRIGS OF KIKUYU GRASS, AS SHOWN ON DRAWINGS.

TRENCHING NOTE:
USE CARE TO LIMIT DAMAGE IN NEWLY GRASSED AREAS. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

NORTH

LANDSCAPE IRRIGATION PLAN - 2

0 10' 20' 40'

SCALE: 1"=20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

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APRIL 30, 2016

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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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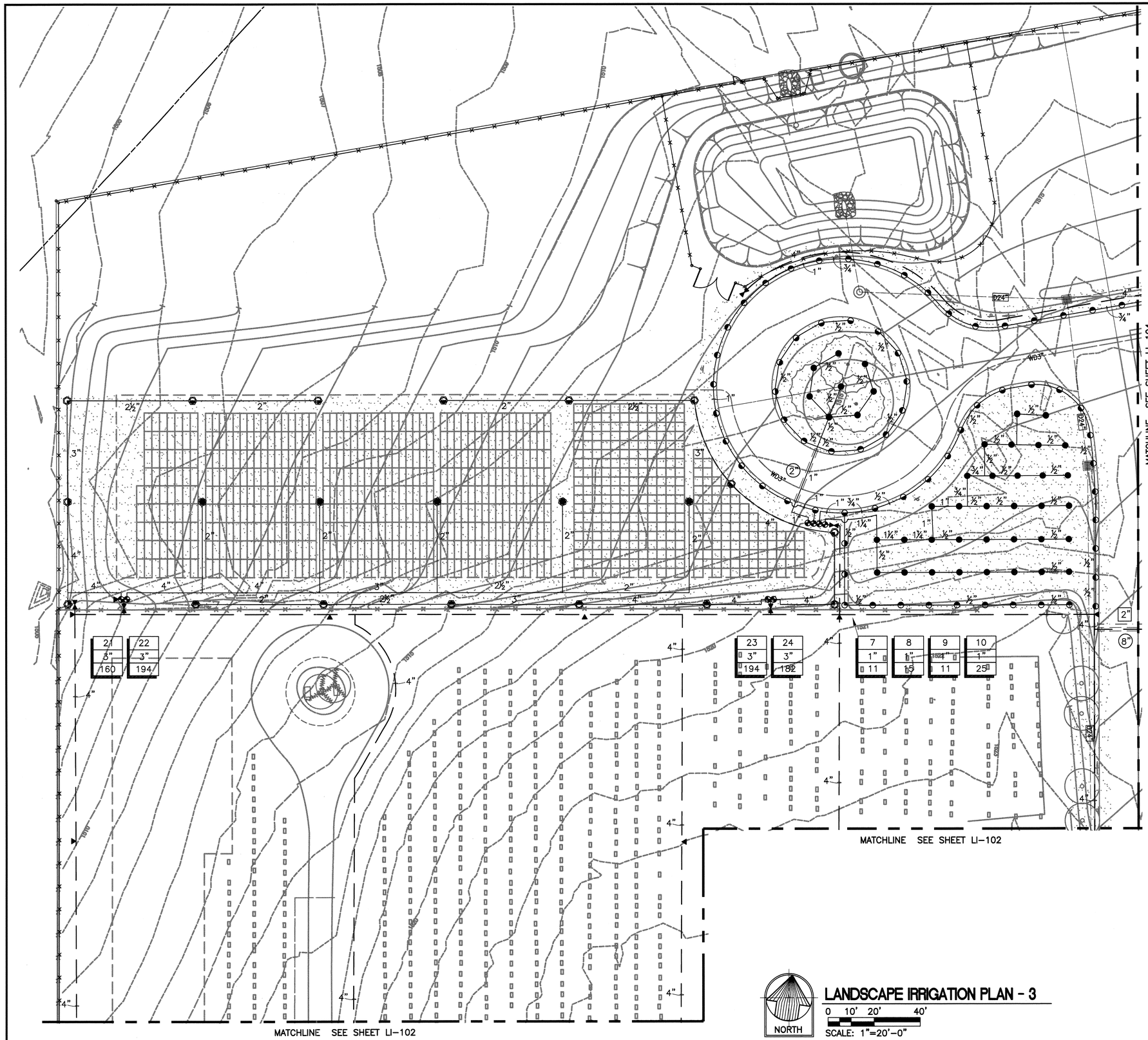
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 2

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-102
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 40 OF 80 SHTS.
SCALE: AS NOTED			



LANDSCAPE IRRIGATION PLAN - 3

0 10' 20' 40'

SCALE: 1"=20'-0"

BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
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TRENCHING NOTE:
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No. 11331
HAWAII, U.S.A.

Dawn Easterday

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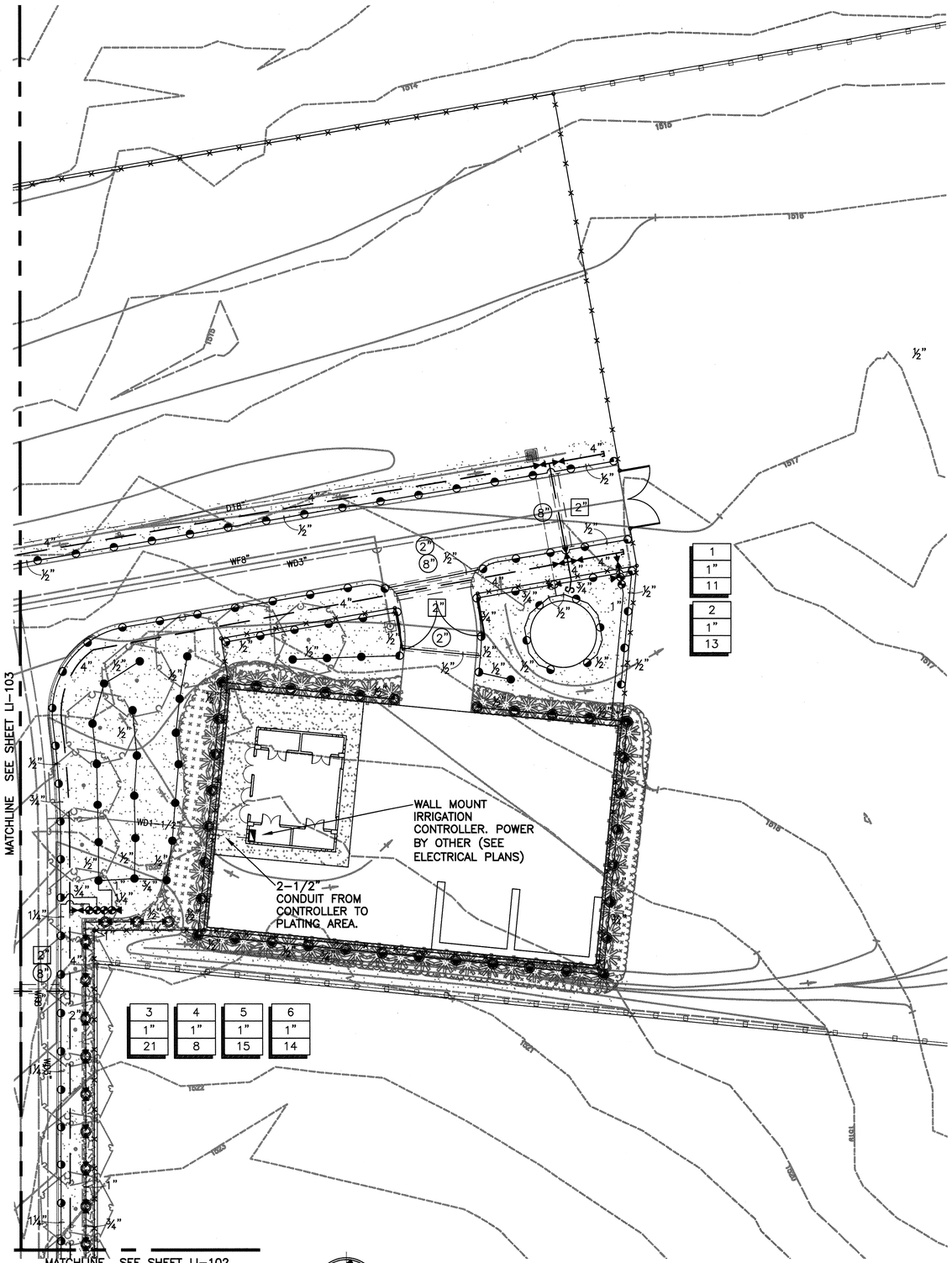
MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 3

BELT COLLINS HAWAII LLC

DAGS JOB NO.	DRAWING NO.
15-14-7509	LI-103

DESIGNED BY:	CHECKED BY:	DATE:	SHEET
DE	DE	OCTOBER 2014	41 OF 80 SHTS.
DRAWN BY: CH/LK	APPROVED BY: DE		
SCALE: AS NOTED			



LANDSCAPE IRRIGATION PLAN - 4

BASE BID:
- PROVIDE AND PLANT SEED OF KIKUYU GRASS.
- PROVIDE AND INSTALL QUICK COUPLERS AT EXISTING CEMETERY AND FULLY AUTOMATIC IRRIGATION FOR EXPANSION SITE.
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TRENCHING NOTE:
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REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 4

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-104
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 42 OF 80 SHTS.
SCALE: AS NOTED			

BASE BID:
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TRENCHING NOTE:
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NORTH

LANDSCAPE IRRIGATION PLAN - 5

0 10' 20' 40'

SCALE: 1"=20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

I, DAWN EASTERDAY, HEREBY CERTIFY THAT CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

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PUBLIC WORKS DIVISION, STATE OF HAWAII

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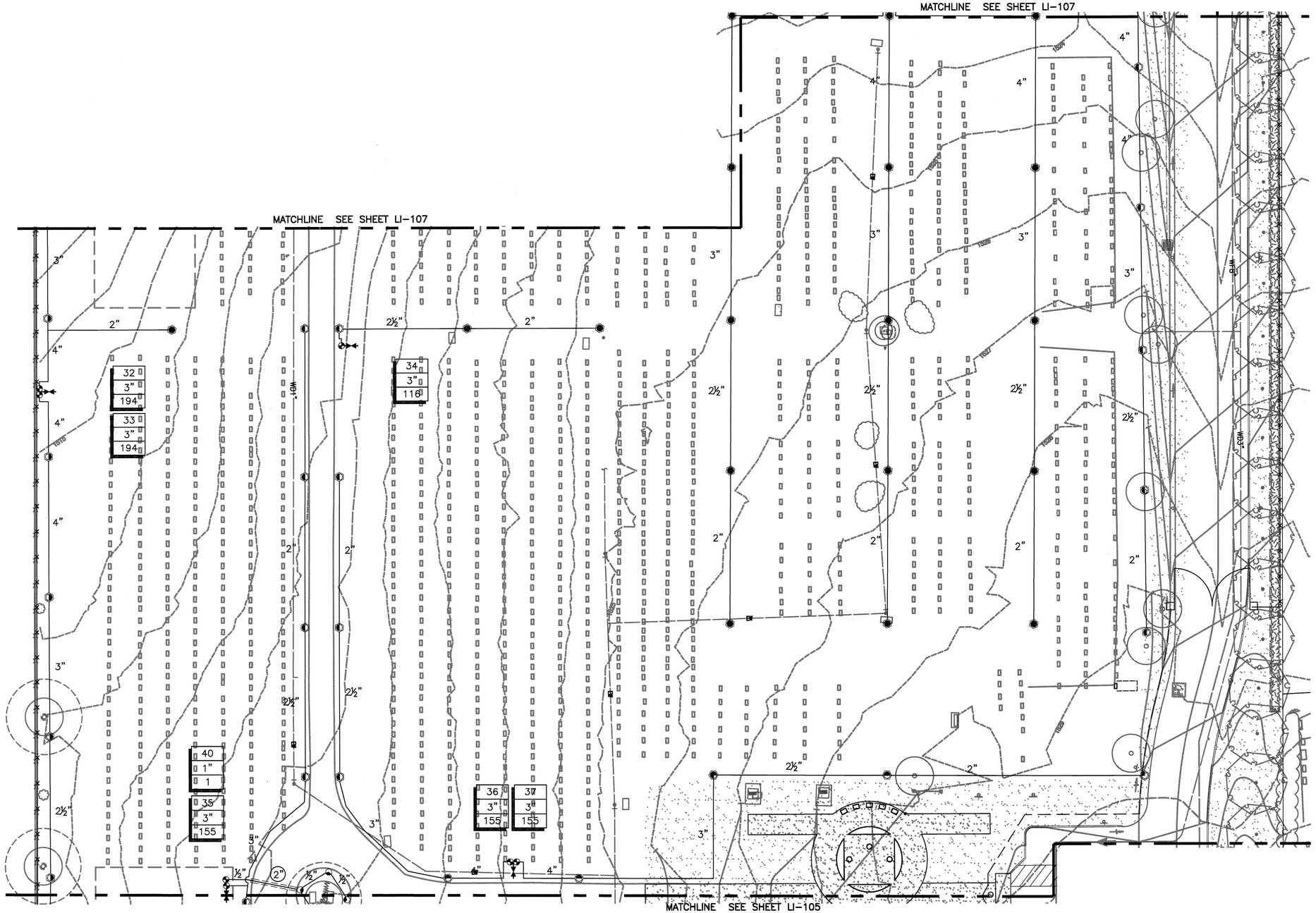
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 5

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-105
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 43 OF 80 SHTS.
SCALE: AS NOTED			



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TRENCHING NOTE:
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NORTH

LANDSCAPE IRRIGATION PLAN - 6

0 10' 20' 40'

SCALE: 1"=20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 6

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

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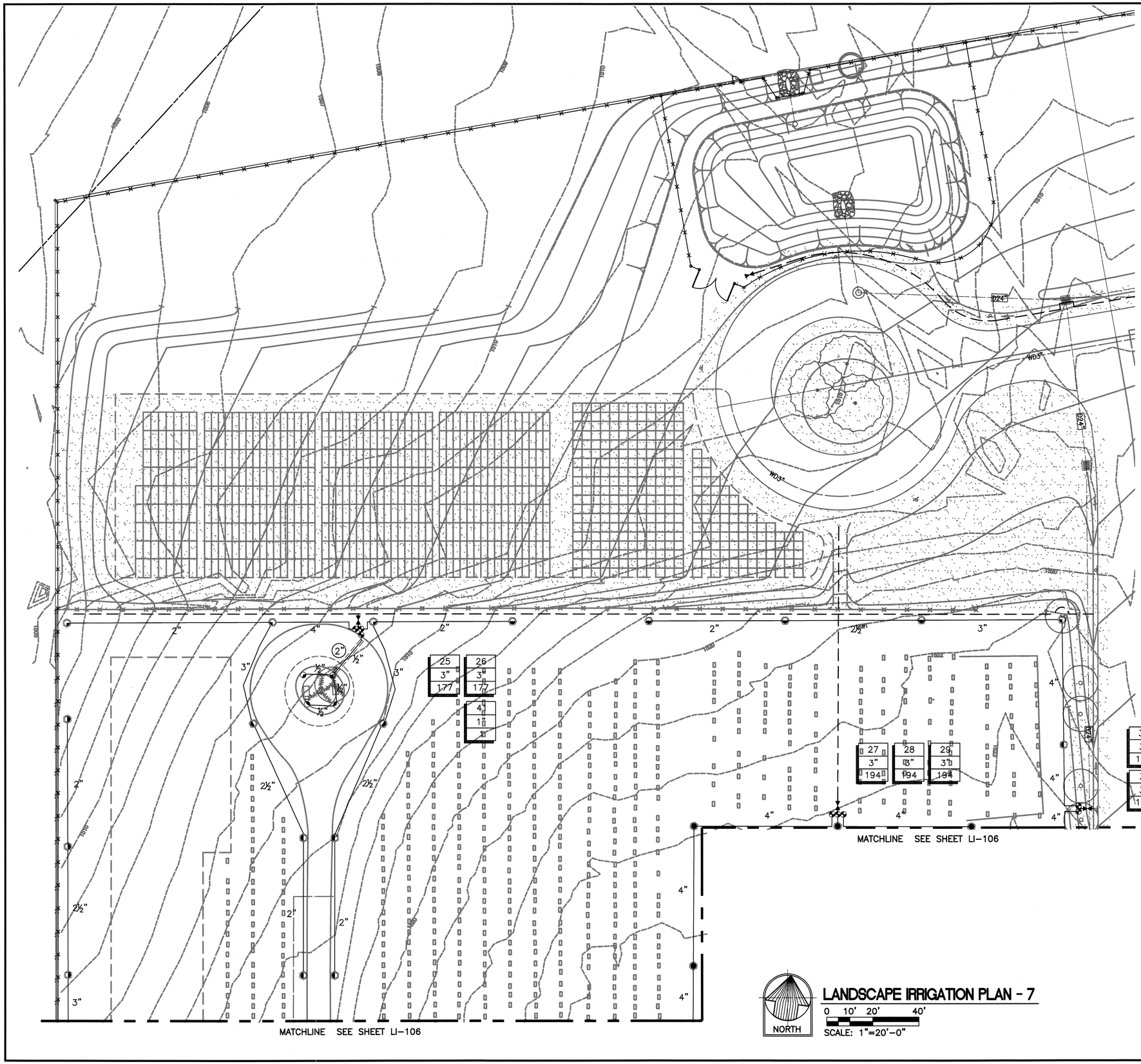
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-106
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 44 OF 80 SHTS.
SCALE: AS NOTED			



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- PROVIDE AND INSTALL FULLY AUTOMATED IRRIGATION SYSTEM AT EXISTING CEMETERY, AS SHOWN ON DRAWINGS.

ADDITIVE ALTERNATE NO. 1:
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TRENCHING NOTE:
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LANDSCAPE IRRIGATION PLAN - 7

0 10' 20' 40'

SCALE: 1"=20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

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APRIL 30, 2016
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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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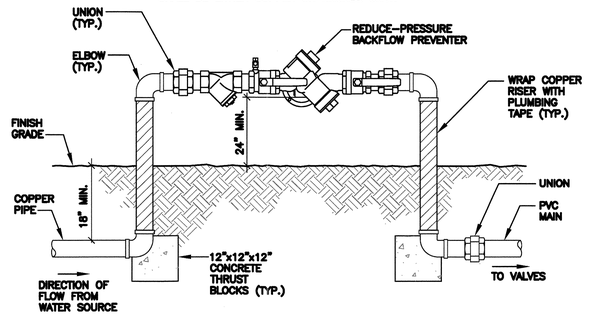
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

LANDSCAPE IRRIGATION PLAN - 7

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-107
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 45 OF 80 SHTS.
SCALE: AS NOTED			

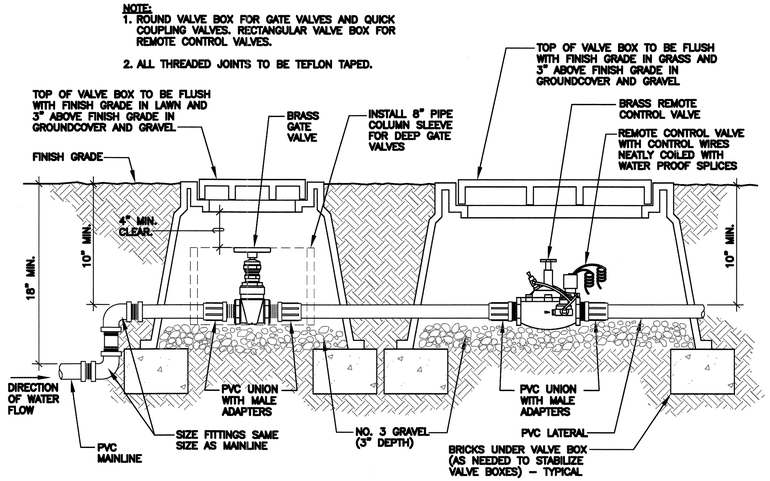
NOTE:
1. USE FLANGED FITTINGS ON 3" AND LARGER PIPE.
2. ADAPT INLET AND OUTLET FITTINGS TO MAINLINE AS REQUIRED.
3. ALL PIPE AND FITTINGS INSTALLED ABOVE GRADE SHALL BE EITHER COPPER OR BRONZE ONLY.



1 / LI-601 **BACKFLOW PREVENTER DETAIL**

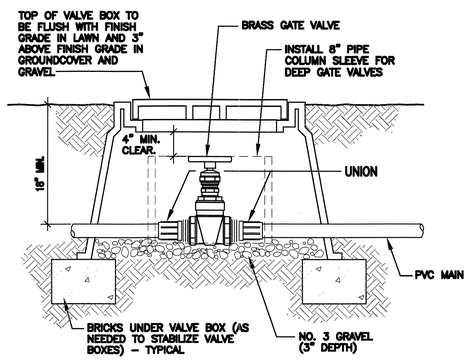
NOT TO SCALE

NOTE:
1. ROUND VALVE BOX FOR GATE VALVES AND QUICK COUPLING VALVES. RECTANGULAR VALVE BOX FOR REMOTE CONTROL VALVES.
2. ALL THREADED JOINTS TO BE TEFLON TAPED.



2 / LI-601 **GATE VALVE / REMOTE CONTROL VALVE DETAIL**

NOT TO SCALE



3 / LI-601 **GATE VALVE DETAIL**

NOT TO SCALE

IRRIGATION EQUIPMENT LIST

SYMBOL	EQUIPMENT	PSI	RADIUS	GPM
	HUNTER I-90-ADV-25, RAIN BIRD 8005-20, K-RAIN 14003-20 OR APPROVED SUBSTITUTE	60	63'	22.0
	HUNTER I-90-ADV-43, RAIN BIRD 8005-26, K-RAIN 14003-30 OR APPROVED SUBSTITUTE	60	70'	38.7
	HUNTER I-90-ADV-43, RAIN BIRD 8005-26, K-RAIN 14003-30 OR APPROVED SUBSTITUTE	60	70'	38.7
	HUNTER I-90-ADV-43, RAIN BIRD 8005-26, K-RAIN 14003-30 OR APPROVED SUBSTITUTE	60	70'	38.7
	HUNTER I-90-36V-43, RAIN BIRD 8005-26, K-RAIN 14003-30 OR APPROVED SUBSTITUTE	60	70'	38.7
	HUNTER PROS-04-PRS40-CV-MP1000-90, RAIN BIRD 1804-SAM-P45-R-VAN1318, TORO 570Z-4P-PRX-COM-PRN-TA OR APPROVED SUBSTITUTE	40	14'	0.19
	HUNTER PROS-04-PRS40-CV-MP1000-90, RAIN BIRD 1804-SAM-P45-R-VAN1318, TORO 570Z-4P-PRX-COM-PRN-TA OR APPROVED SUBSTITUTE	40	14'	0.25
	HUNTER PROS-04-PRS40-CV-MP1000-90, RAIN BIRD 1804-SAM-P45-R-VAN1318, TORO 570Z-4P-PRX-COM-PRN-TA OR APPROVED SUBSTITUTE	40	14'	0.37
	HUNTER PROS-04-PRS40-CV-MP1000-210, RAIN BIRD 1804-SAM-P45-R-VAN1318, TORO 570Z-4P-PRX-COM-PRN-TA OR APPROVED SUBSTITUTE	40	14'	0.50
	HUNTER PROS-04-PRS40-CV-MP1000-210, RAIN BIRD 1804-SAM-P45-R-VAN1318, TORO 570Z-4P-PRX-COM-PRN-TA OR APPROVED SUBSTITUTE	40	14'	0.57
	HUNTER PROS-04-PRS40-CV-MP1000-360, RAIN BIRD 1804-SAM-P45-R13-18F, TORO 570Z-4P-PRX-COM-PRN-TF OR APPROVED SUBSTITUTE	40	14'	0.75
	HUNTER PROS-04-PRS40-CV-MPLCS515/MPRCS515 OR APPROVED SUBSTITUTE	40	5'X15'	0.22
	HUNTER PROS-04-PRS40-CV-MPSS530 OR APPROVED SUBSTITUTE	40	5'X30'	0.44
	HUNTER PROS-04-PRS40-CV-PCN-50, RAIN BIRD 1804-SAM-P45-1402, TORO 570Z-4P-PRX-COM-FB-50-PC OR APPROVED SUBSTITUTE	40	-	.50
	HUNTER PROS-012-PRS40-CV-MP1000-90, RAIN BIRD 1812-SAM-P45-R-VAN1318, TORO 570Z-12P-PRX-COM-PRN-TA OR APPROVED SUBSTITUTE - SEE SYMBOLS ABOVE FOR TYPICAL SPRAY PATTERN & GPM	40	14'	0.19
	FEBCO LF860, WATTS LF909, ZURN WILKINS MODEL 375 REDUCED PRESSURE BACKFLOW PREVENTER OR APPROVED SUBSTITUTE (4")			
	NIBCO T-113, WATTS WGV-X, MILWAUKEE 105 BRONZE GATE VALVE OR APPROVED SUBSTITUTE (SIZED TO MATCH MAIN)			
	HUNTER IBV, RAIN BIRD GB, TORO 220 SERIES REMOTE CONTROL OR APPROVED SUBSTITUTE (SIZED PER PLAN)			
	HUNTER ACC-99D, ESP-LXD, TORO TDC TWO-WIRE DECODER CONTROLLER IN METAL CABINET OR APPROVED SUBSTITUTE			
	HUNTER HQ-44LRC, RAIN BIRD 44-LRC, TORO 100-2SL-VLC QUICK COUPLING VALVE WITH CORRESPONDING KEY AND HOSE SWIVEL OR APPROVED SUBSTITUTE			
	PVC SCHEDULE 40 IRRIGATION MAIN (4" UNLESS OTHERWISE NOTED ON PLAN)			
	PVC CLASS 200 IRRIGATION LATERALS (SIZED PER PLAN)			
	PVC SCHEDULE 40 IRRIGATION SLEEVE (SIZED PER PLAN)			
	PVC SCHEDULE 40 IRRIGATION CONDUIT (SIZED PER PLAN)			
1	VALVE NUMBER			
1"	SIZE OF REMOTE CONTROL VALVE			
26	G.P.M. THRU VALVE			
(4")	SIZE OF SLEEVE (TO BE INSTALLED BY SITE CONTRACTOR)			
[1"]	SIZE OF CONDUIT (TO BE INSTALLED BY SITE CONTRACTOR)			

IRRIGATION NOTES:

1. IRRIGATION SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND ARE SUBJECT TO ADJUSTMENTS DUE TO UNANTICIPATED FIELD CONDITIONS. UNLESS OTHERWISE NOTED, LOCATE ALL SPRINKLER HEADS, VALVES, AND PIPES WITHIN PLANTING AREAS.
2. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM STATIC WATER PRESSURE OF 55 PSI AT THE POINT OF CONNECTION. NOTIFY PROJECT LANDSCAPE ARCHITECT IF PRESSURE IS LESS THAN 55 PSI OR GREATER THAN 100 PSI.
3. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE INSTALLATION OF ALL SLEEVES, CONDUITS, MAINS AND LATERALS UNDER PAVEMENT AND THROUGH WALLS AND SHALL ASSURE THAT THESE ITEMS ARE LAID PRIOR TO THE PLACEMENT OF PAVEMENT/WALL. ALL IRRIGATION WIRES SHALL BE BUNDLED AND INSTALLED UNDER THE IRRIGATION MAIN FOR IN-GRADE INSTALLATION. INSTALL IRRIGATION WIRES IN CONDUITS WHERE WIRES ARE NOT FOLLOWING THE IRRIGATION MAIN AND ALL ABOVE-GRADE INSTALLATIONS. VERIFY UTILITY LOCATIONS BEFORE TRENCHING. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.
4. INSTALL SPRINKLER HEADS 6" AWAY FROM WALKWAYS, DRIVEWAYS AND 24" FROM STRUCTURES. ADJUST ALL SPRINKLER HEADS TO OBTAIN BEST COVERAGE. ADJUST FLOW CONTROL OF CONTROL VALVES TO MINIMIZE MISTING.
5. THE CONTRACTOR, TOGETHER WITH THE OWNER'S MAINTENANCE REPRESENTATIVE SHALL PROGRAM THE IRRIGATION CONTROLLER TO ACCOMMODATE THE LANDSCAPE AND SITE REQUIREMENTS, AND SHALL INSTRUCT THE REPRESENTATIVE ON THE OPERATION OF THE COMPLETE SYSTEM.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY ON GRADE IRRIGATION FOR ALL NEW GRASS AREAS NOT COVERED BY PERMANENT IRRIGATION AND IN INSTANCES WHERE A SYSTEM IS NOT INSTALLED, BUT WOULD BE BENEFICIAL FOR PROPER PLANT ESTABLISHMENT AND MAINTENANCE, SUCH AS DEEP WATERING OF TREES. SUCH SYSTEMS SHALL BE INSTALLED FOR THE DURATION OF THE PLANT MAINTENANCE PERIOD AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. ALL TEMPORARY SYSTEMS SHALL BE REMOVED UPON PROJECT COMPLETION.
7. ALL IRRIGATION OPERATION SHALL BE DURING "OFF PEAK" EVENING HOURS. OPERATION DURING OTHER TIMES SHALL BE WITH THE APPROVAL OF THE CONTRACTING OFFICER.
8. PRESSURE TESTING: CENTER LOAD PIPE WITH SUFFICIENT BACKFILL TO ANCHOR PIPE BEFORE TESTING. DO NOT COVER FITTINGS OR JOINTS. PURGE AIR FROM LINES PRIOR TO APPLYING TEST PROCEDURES. PERFORM TESTING AND FURNISH NECESSARY EQUIPMENT. APPLY THE FOLLOWING TESTS AFTER SOLVENT WELD PLASTIC PIPE JOINTS HAVE CURED FOR AT LEAST 24 HOURS.
   a. TEST MAINLINES HYDROSTATICALLY AT 150 PSI MINIMUM. LINES WILL BE APPROVED IF TEST PRESSURE IS MAINTAINED FOR 6 HOURS. MAKE TESTS AND REPAIRS AS NECESSARY UNTIL TEST CONDITIONS ARE MET. INSTALL VALVES PRIOR TO PRESSURE TESTING.
   b. DURING THE TEST, STOP DETECTABLE LEAKS AND CORRECT DEFECTS REGARDLESS OF THE AMOUNT OF LEAKAGE. USE MATERIALS AND INSTALLATION PROCEDURE IDENTICAL TO THOSE SPECIFIED HEREIN FOR MAKING CORRECTIONS.
   c. PERFORM TESTS AND REPAIRS BEFORE PAVING IS INSTALLED AND WHILE PIPES ARE STILL ACCESSIBLE.

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, USA

Dawn Easterday

CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

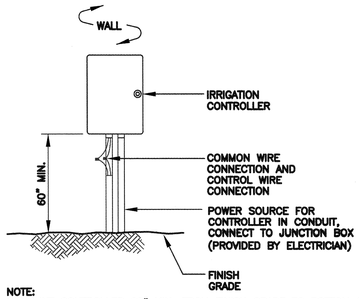
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

IRRIGATION EQUIPMENT LIST, DETAILS AND NOTES

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-501
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 46 OF 80 SHTS.
SCALE: AS NOTED			

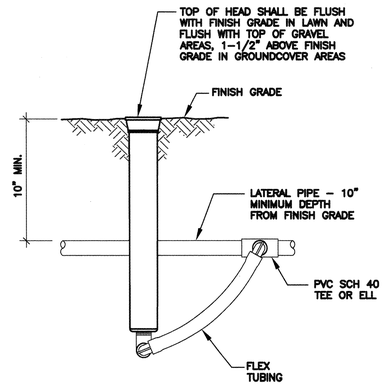
FILE____ DRAWER____ FOLDER____



NOTE:
1. MOUNT CONTROLLER 60" MIN. FROM FINISH GRADE TO BOTTOM OF CONTROLLER.
2. ALL WIRING TO BE INSTALLED AS PER LOCAL CODE.
3. SEE MANUFACTURER'S RECOMMENDATIONS FOR MOUNTING.

1 LI-502 IRRIGATION CONTROLLER DETAIL

NOT TO SCALE



4 LI-502 12" POP-UP SPRAY DETAIL

NOT TO SCALE

NOTE: SET ALL THRUST BLOCKS AGAINST UNDISTURBED SOIL

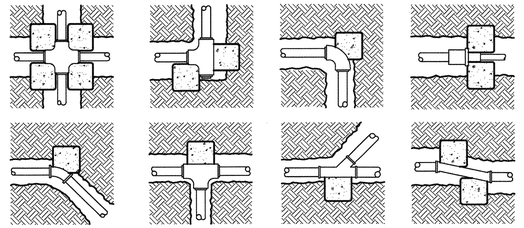
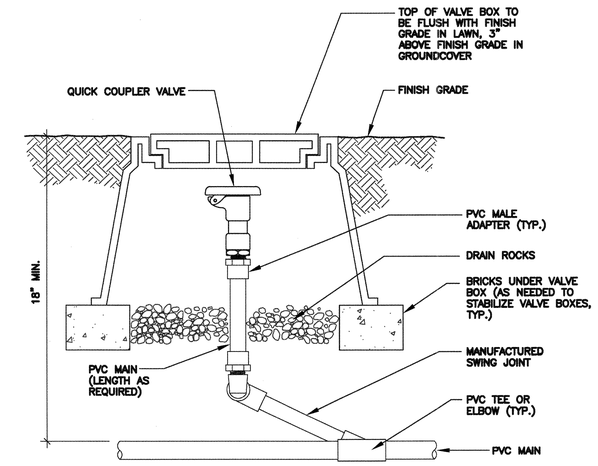


TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

PIPE SIZE	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
TEES & CROSSES	0.50	0.50	0.50	0.50	1.00	1.25	3.20
90° BEND	0.50	0.50	0.50	0.75	1.25	2.00	4.50
45° BEND	0.50	0.50	0.50	0.50	0.75	1.00	2.40

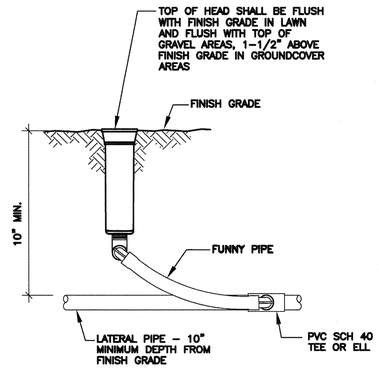
7 LI-502 TYPICAL THRUST BLOCK DETAIL FOR IRRIAGATION MAINS

NOT TO SCALE



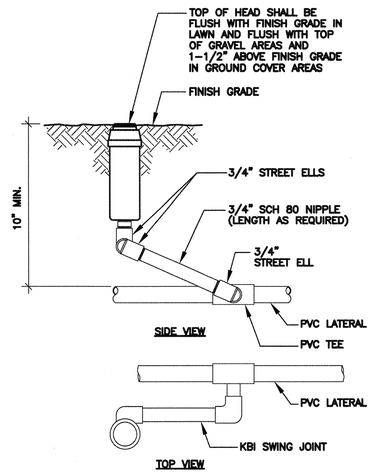
2 LI-502 QUICK COUPLER VALVE DETAIL

NOT TO SCALE



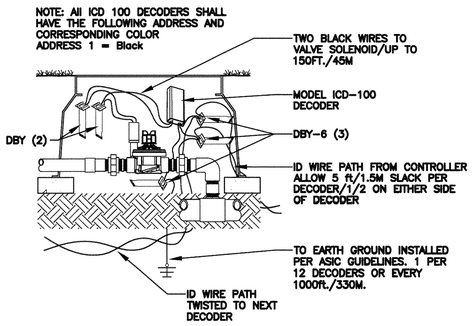
5 LI-502 4" POP-UP SPRAY DETAIL

NOT TO SCALE



3 LI-502 4" POP-UP ROTOR DETAIL

NOT TO SCALE



6 LI-502 DECODER DETAIL

NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DAWN EASTERDAY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 11331
HAWAII, U.S.A.

Dawn Easterday

I WILL BE RESPONSIBLE FOR CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

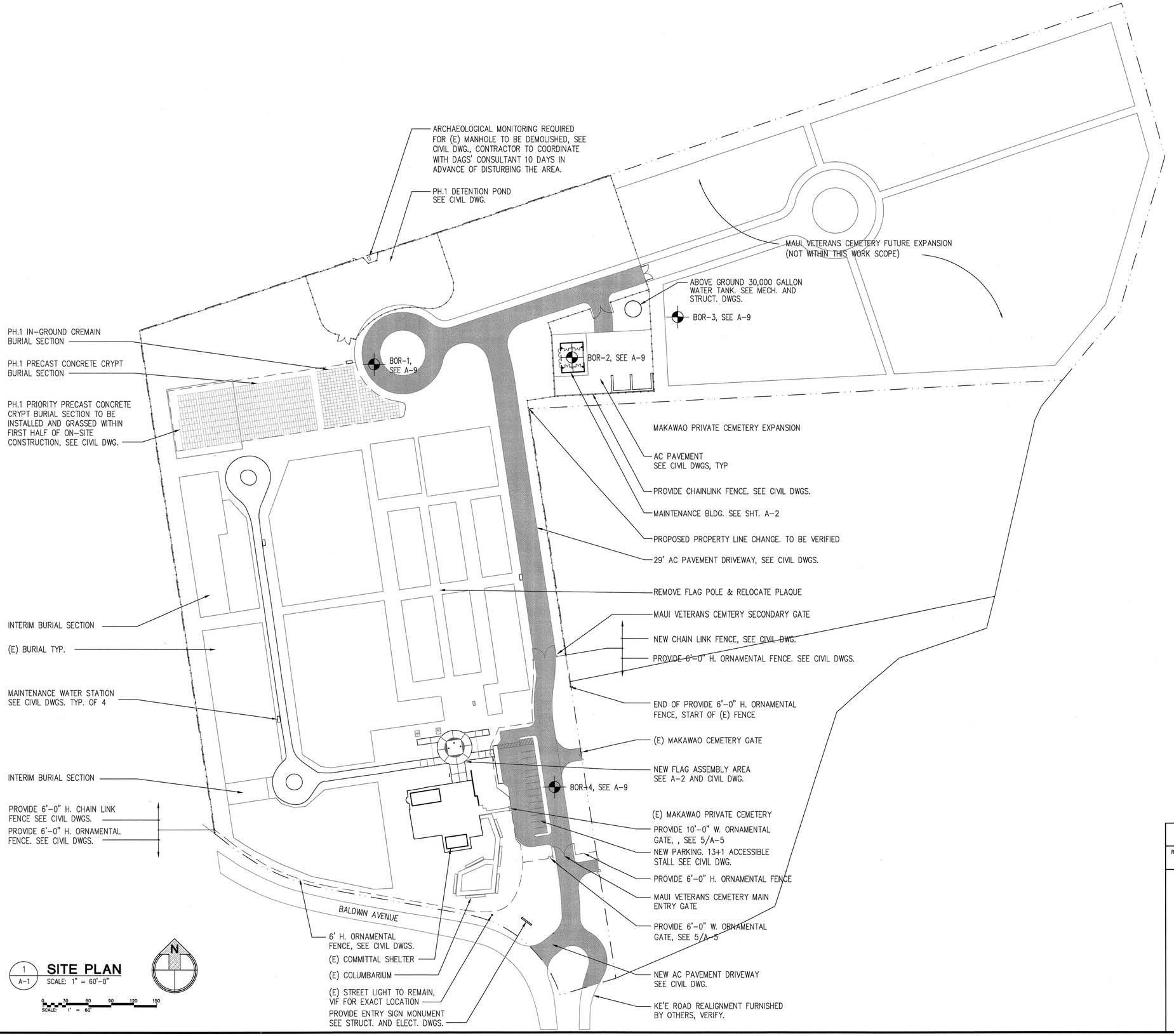
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

IRRIGATION DETAILS

BELT COLLINS HAWAII LLC		DAGS JOB NO. 15-14-7509	DRAWING NO. LI-502
DESIGNED BY: DE	CHECKED BY: DE		
DRAWN BY: CH/LK	APPROVED BY: DE	DATE: OCTOBER 2014	SHEET 47 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



1 / A-1 **SITE PLAN**
SCALE: 1" = 60'-0"

SCALE: 1" = 60' (0, 30, 60, 90, 120, 150)

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DUANE T. HAMADA — LICENSED PROFESSIONAL ARCHITECT — No. 5229 — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

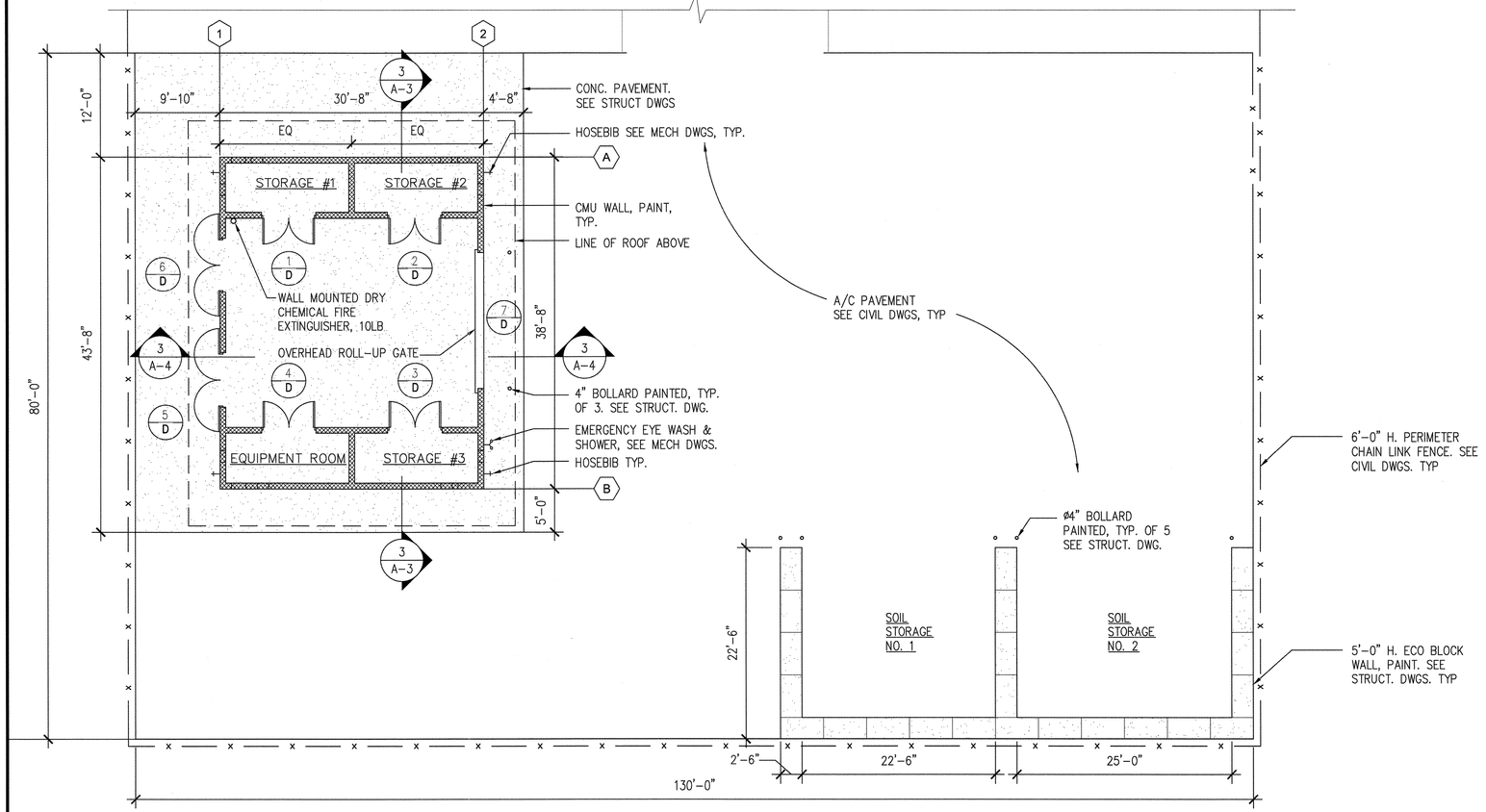
MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

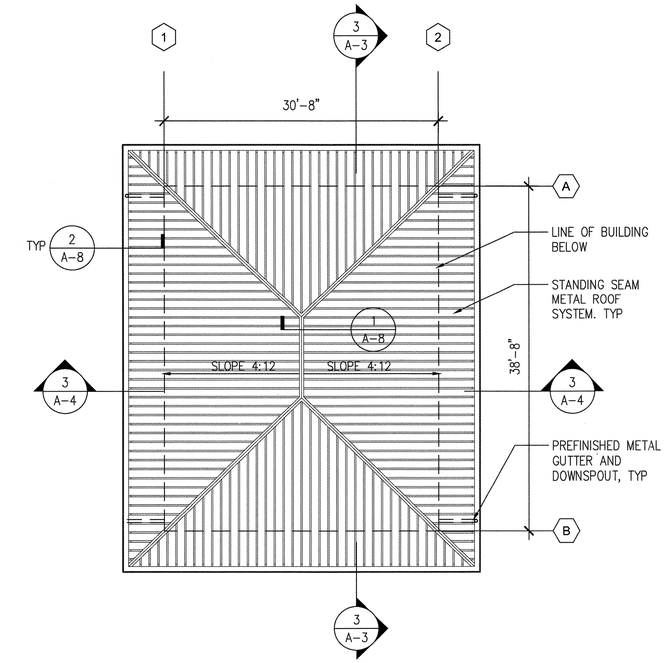
SITE PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. A-1
DESIGNED BY: NN	CHECKED BY: NN		
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 48 OF 80 SHTS.
SCALE: AS NOTED			

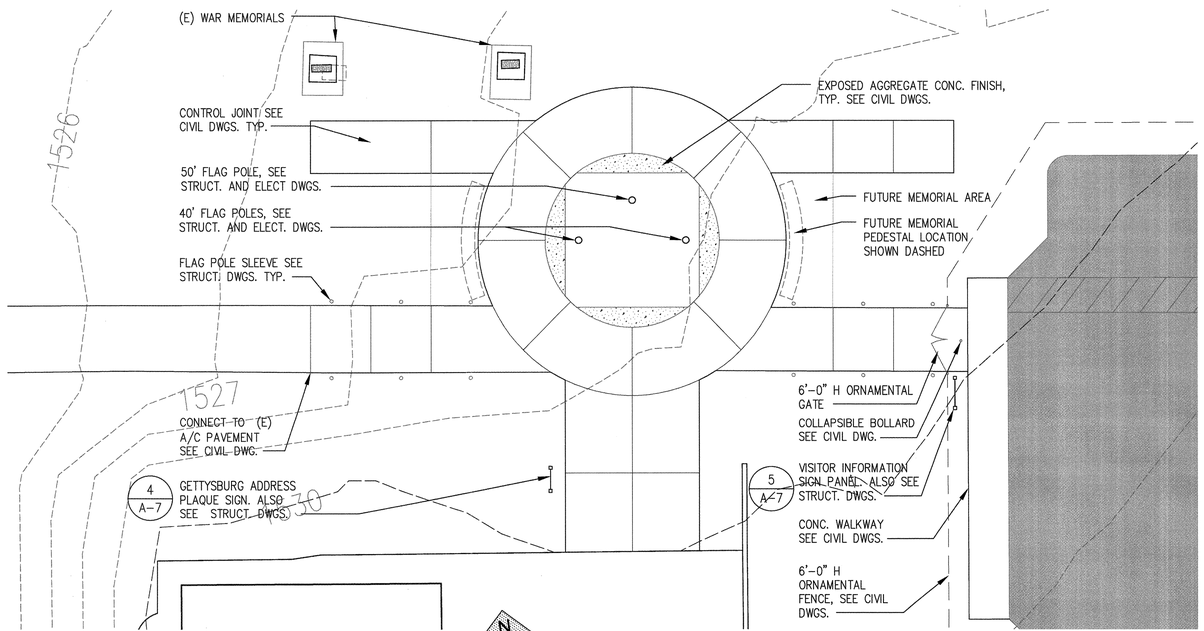
FILE_____DRAWER_____FOLDER_____



1 A–2 MAINTENANCE BUILDING FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 A–2 MAINTENANCE ROOF PLAN
SCALE: 1/8" = 1'-0"



3 A–2 FLAG ASSEMBLY AREA PLAN
SCALE: 3/32" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DUANE T. HAMADA LICENSED PROFESSIONAL ARCHITECT No. 5229 HAWAII, U.S.A.

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APRIL 30, 2016
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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
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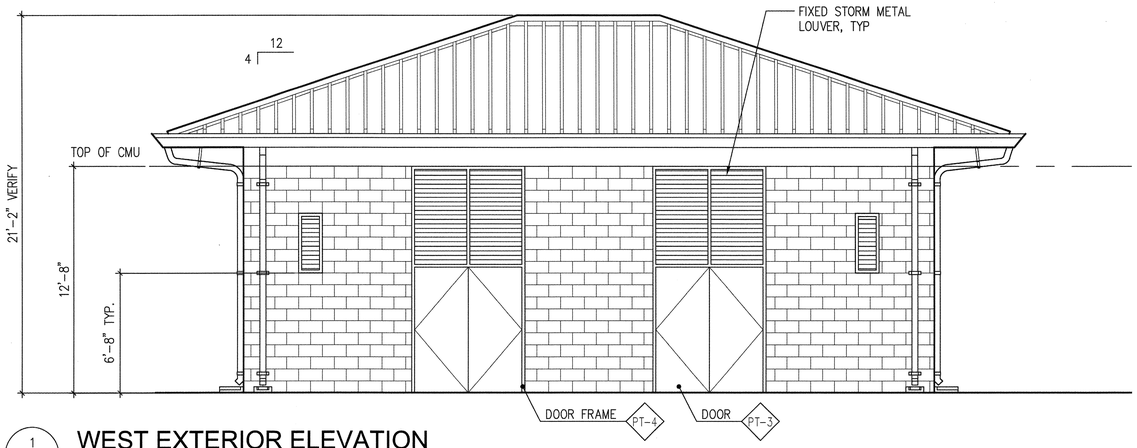
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

MAINTENANCE BUILDING PLAN, ROOF PLAN
FLAG ASSEMBLY PLAZA PLAN

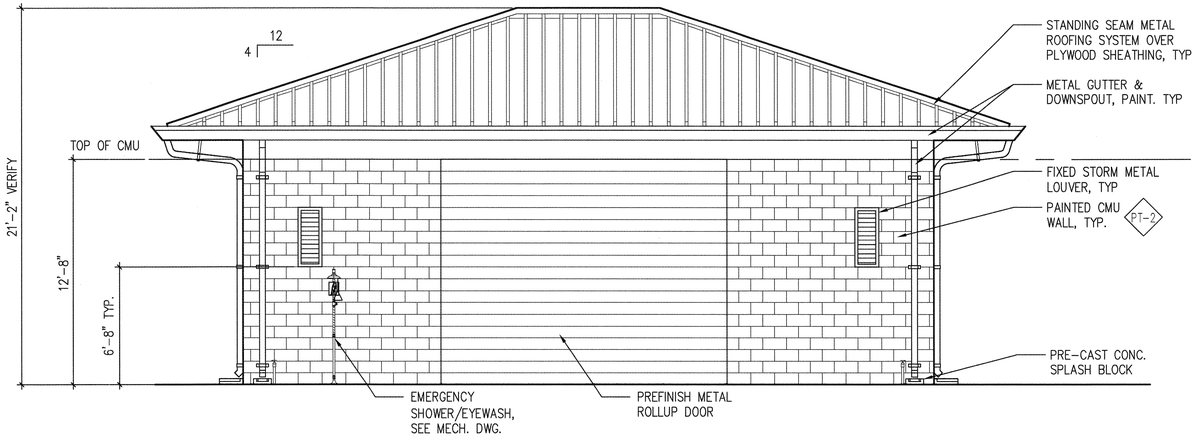
DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. A-2
DESIGNED BY: NN	CHECKED BY: NN		
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 49 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



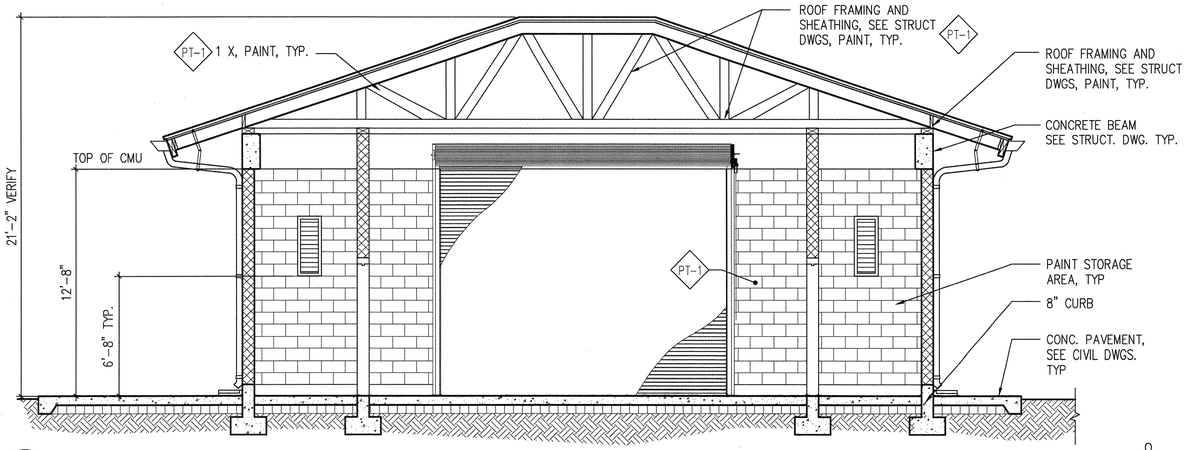
1 / A-3 **WEST EXTERIOR ELEVATION**

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



2 / A-3 **EAST EXTERIOR ELEVATION**

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



3 / A-3 **LONGITUDINAL BUILDING SECTION**

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

0 4 8 12 16 20

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

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DUANE T. HAMADA
LICENSED PROFESSIONAL ARCHITECT
No. 5229
HAWAII, U.S.A.

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APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
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PUBLIC WORKS DIVISION, STATE OF HAWAII

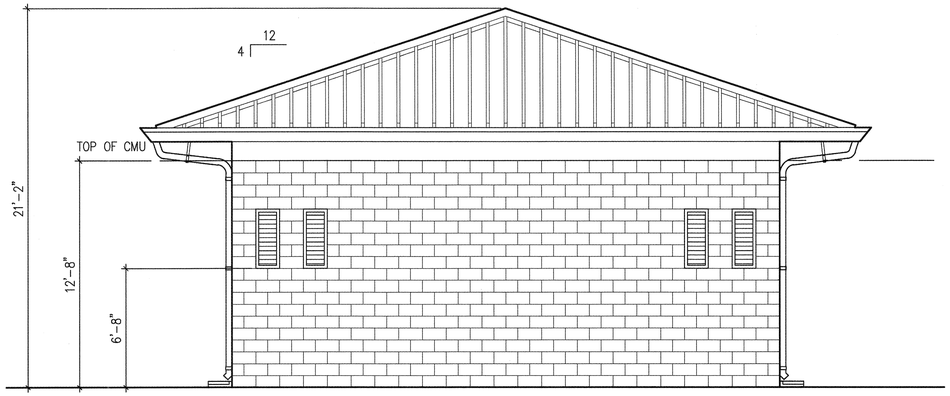
MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

EXTERIOR ELEVATIONS AND BUILDING SECTIONS

DESIGN PARTNERS INCORPORATED

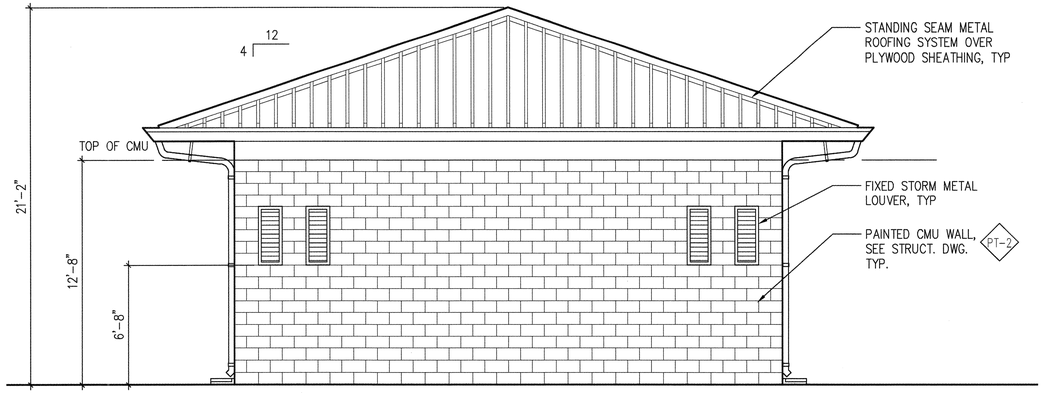
DESIGNED BY: NN	CHECKED BY: NN	DAGS JOB NO. 15-14-7509	DRAWING NO. A-3
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 50 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



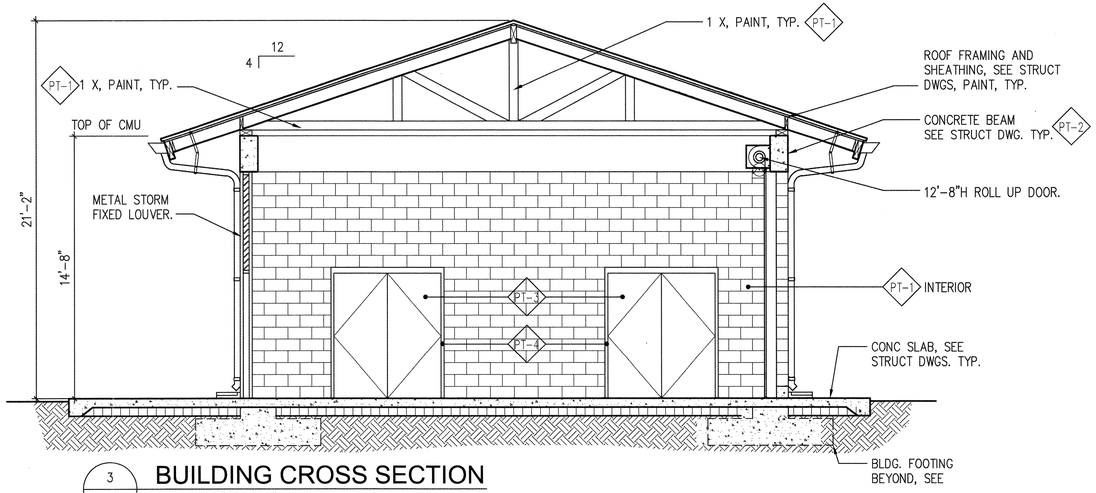
1 / A-4 NORTH EXTERIOR ELEVATION

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



2 / A-4 SOUTH EXTERIOR ELEVATION

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



3 / A-4 BUILDING CROSS SECTION

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

0 4 8 12 16 20

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

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DIANE T. HAMADA LICENSED PROFESSIONAL ARCHITECT No. 5229 HAWAII, U.S.A.

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APRIL 30, 2016

EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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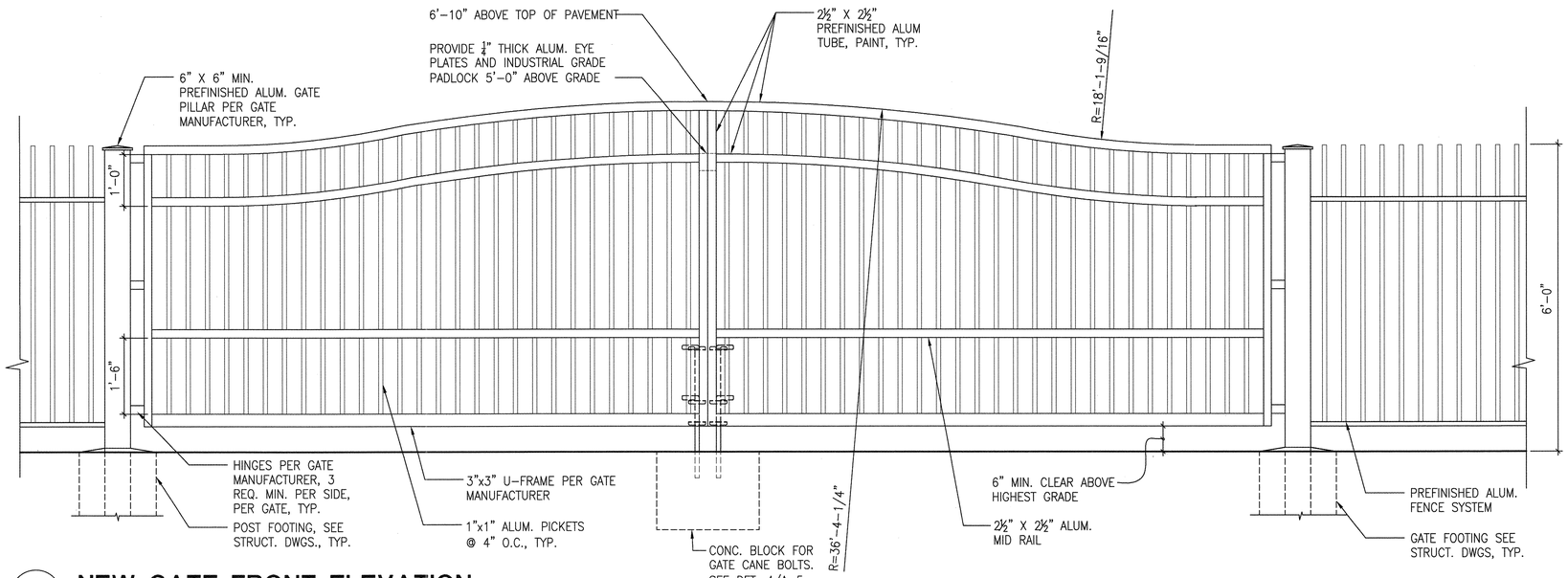
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

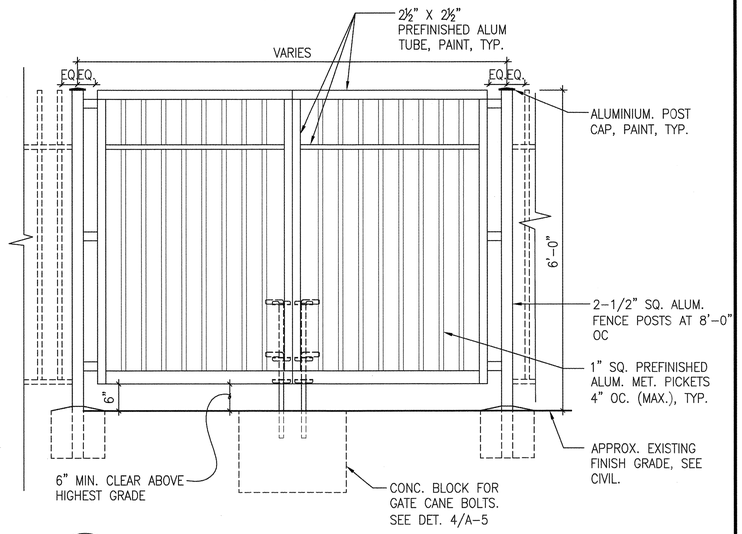
EXTERIOR ELEVATIONS AND BUILDING SECTIONS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. A-4
DESIGNED BY: NN	CHECKED BY: NN		
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 51 OF 80 SHTS.
SCALE: AS NOTED			

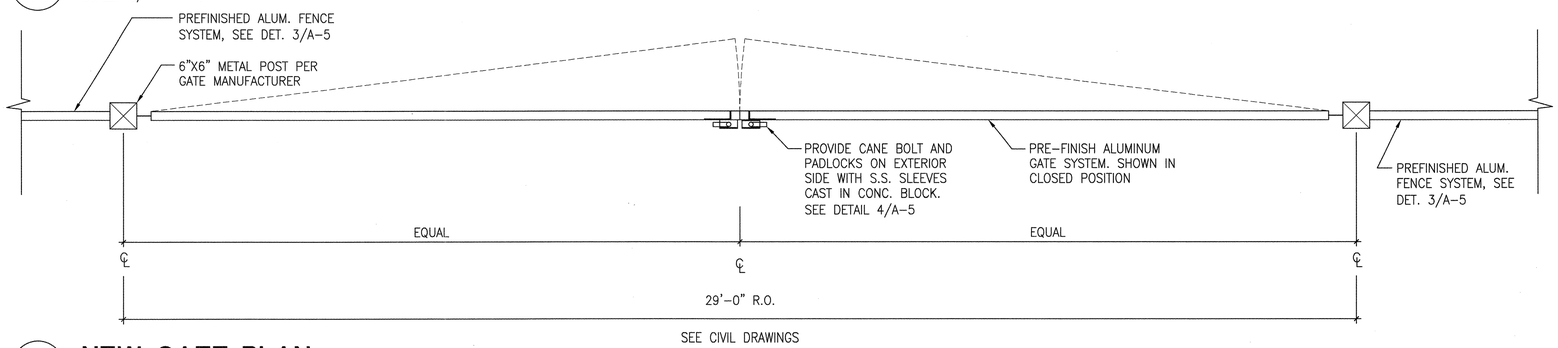
FILE_____DRAWER_____FOLDER_____



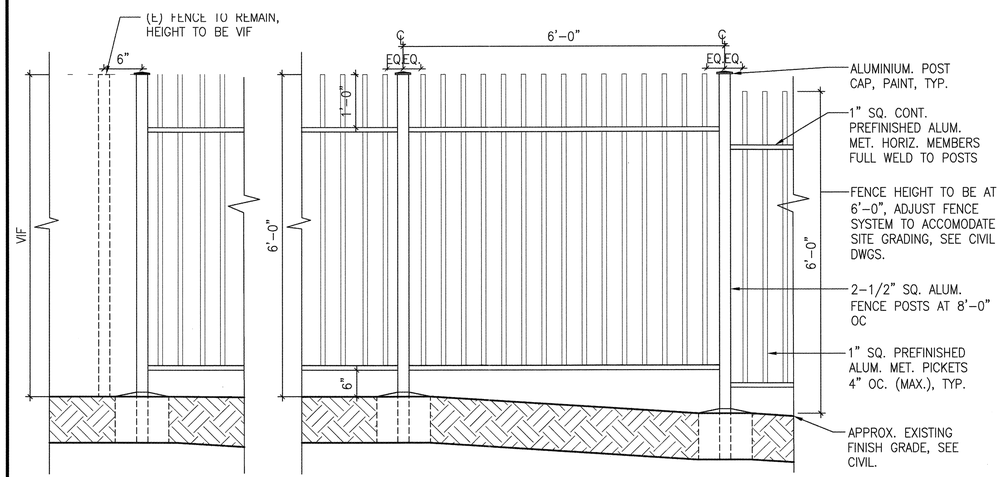
1/A-5 **NEW GATE FRONT ELEVATION**
SCALE: 3/4" = 1'-0"



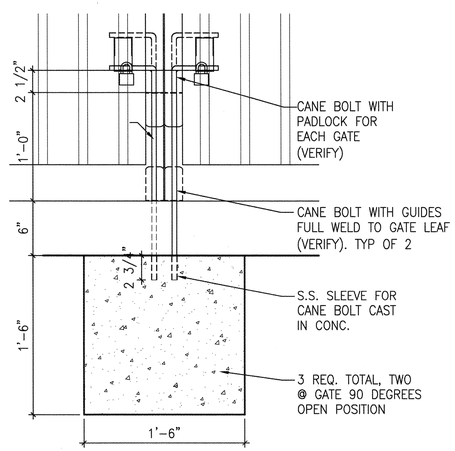
5/A-5 **PEDESTRIAN GATE ELEVATION.**
SCALE: 1-1/2" = 1'-0"



2/A-5 **NEW GATE PLAN**
SCALE: 3/4" = 1'-0"



3/A-5 **TYPICAL NEW METAL FENCE ELEVATION**
SCALE: 3/4" = 1'-0"



4/A-5 **CANE BOLT DET.**
SCALE: 1-1/2" = 1'-0"

NOTE:

CANE BOLTS LOCK GATE IN BOTH OPEN AND CLOSED POSITION
HINGES AND HARDWARE PER GATE MANUFACTURER

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

DIANE T. HAMADA
LICENSED PROFESSIONAL ARCHITECT
No. 5229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

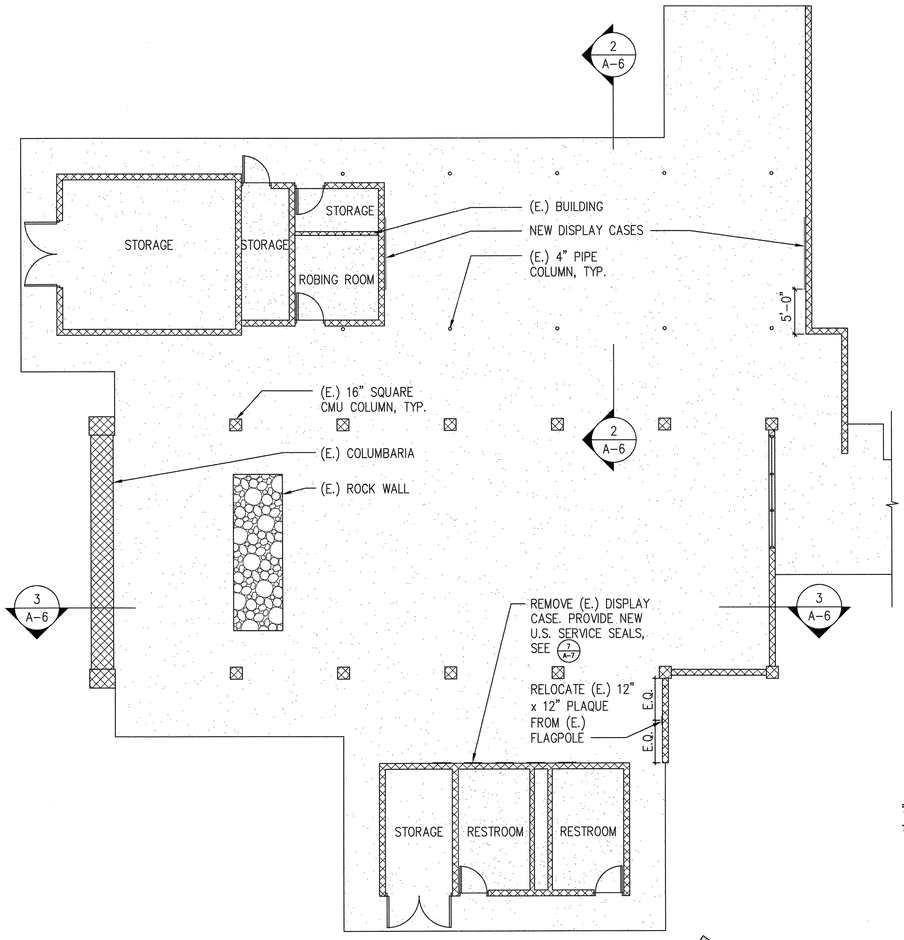
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

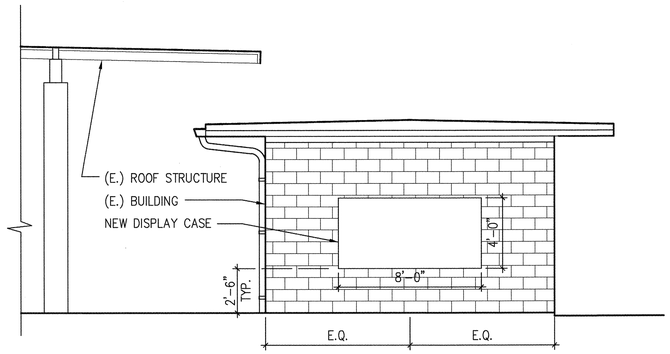
GATE ELEVATION AND DETAIL

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. A-5
DESIGNED BY: NN	CHECKED BY: NN		
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 52 OF 80 SHTS.
SCALE: AS NOTED			

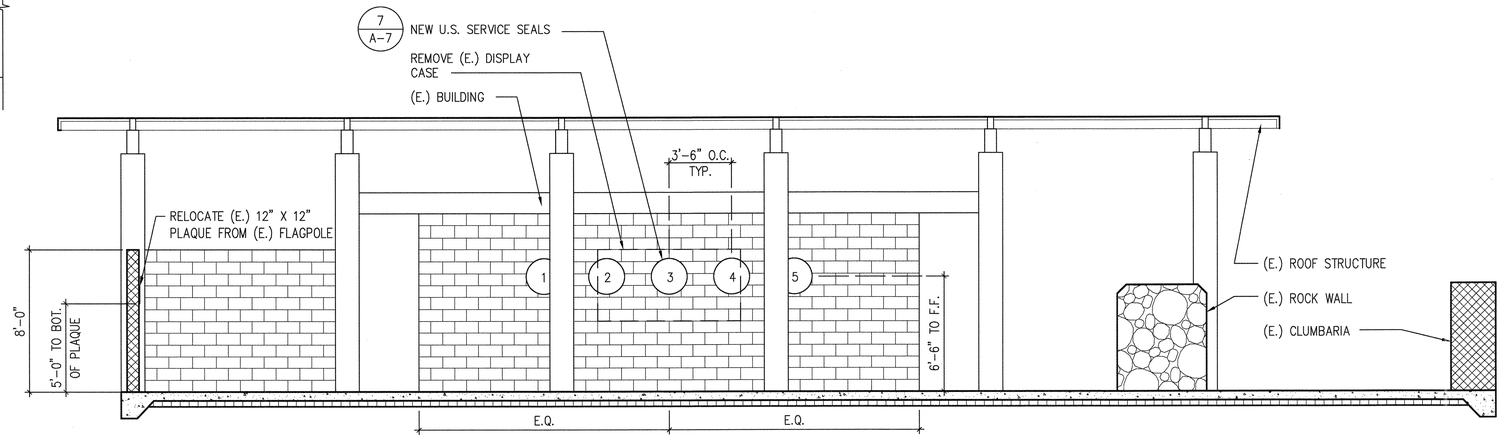
FILE_____DRAWER_____FOLDER_____



1 A-6 **EXISTING COMMITTAL SHELTER PLAN**
SCALE: 1/8" = 1'-0"



2 A-6 **PARTIAL LONGITUDINAL SECTION**
SCALE: 1/4" = 1'-0"



3 A-6 **TRANSVERSE BUILDING SECTION**
SCALE: 1/4" = 1'-0"

0 4 8 12 16 20
SCALE: 1/4" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

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STATE OF HAWAII
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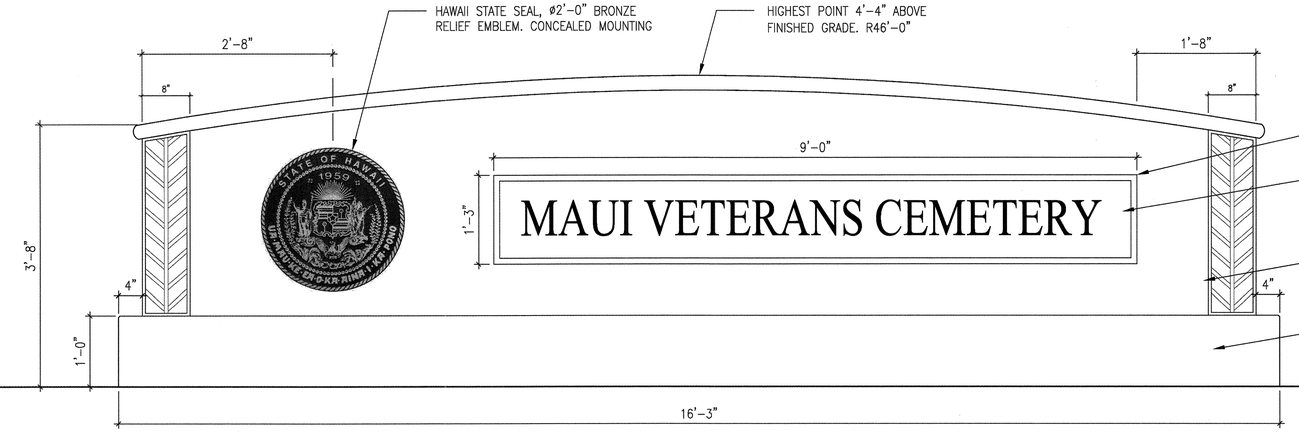
PUBLIC WORKS DIVISION, STATE OF HAWAII

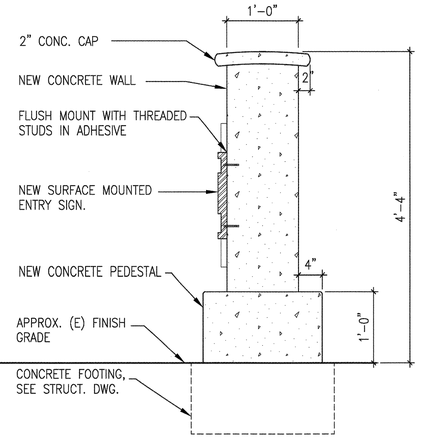
MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

EXISTING COMMITTAL SHELTER PLAN AND SECTIONS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. A-6
DESIGNED BY: NN	CHECKED BY: NN		
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 53 OF 80 SHTS.
SCALE: AS NOTED			

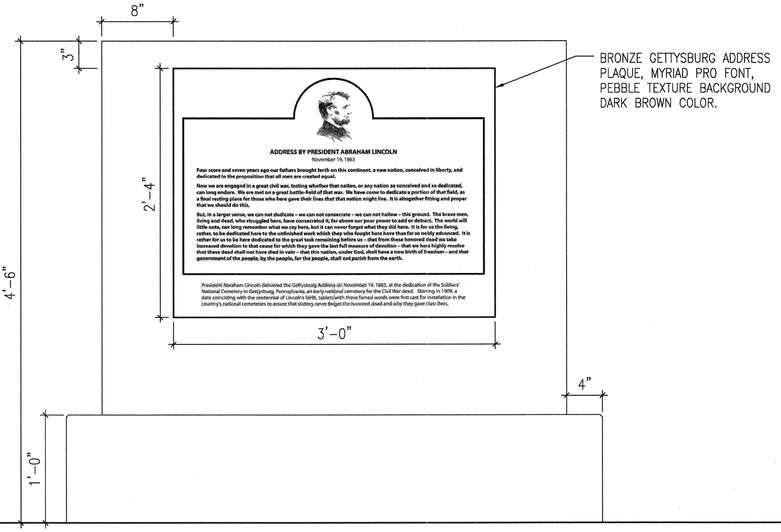
FILE_____DRAWER_____FOLDER_____





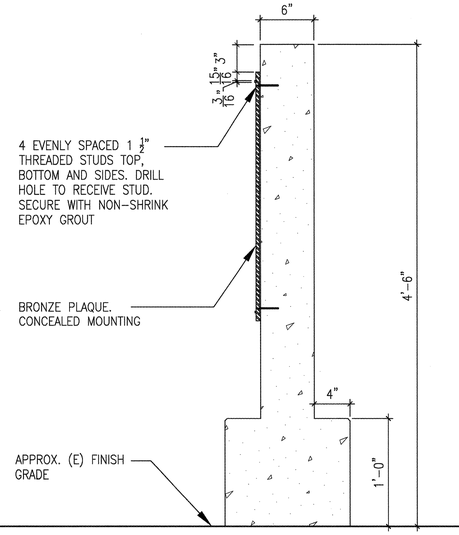
1 A-7 ENTRY GROUND SIGN AND DETAIL

SCALE: 1" = 1'-0"



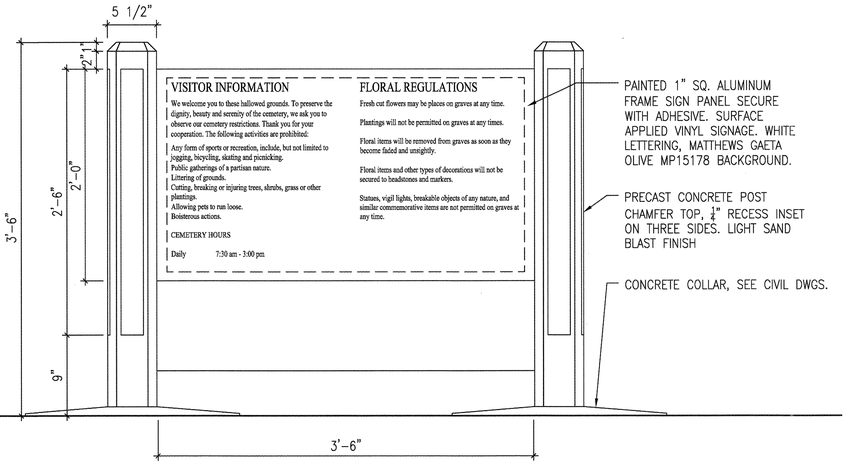
3 A-7 GETTYSBURG ADDRESS PLAQUE SIGN

SCALE: 1-1/2" = 1'-0"



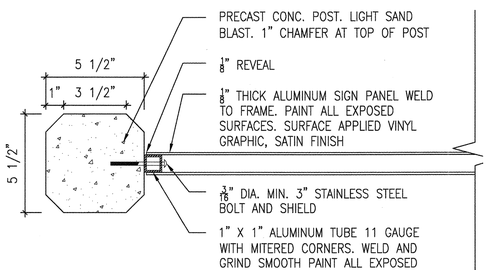
4 A-7 GETTYSBURG ADDRESS PLAQUE SIGN DETAIL

SCALE: 1-1/2" = 1'-0"



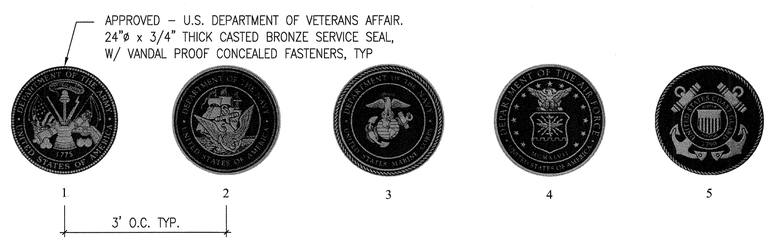
5 A-7 VISITOR INFORMATION SIGN

SCALE: 1-1/2" = 1'-0"



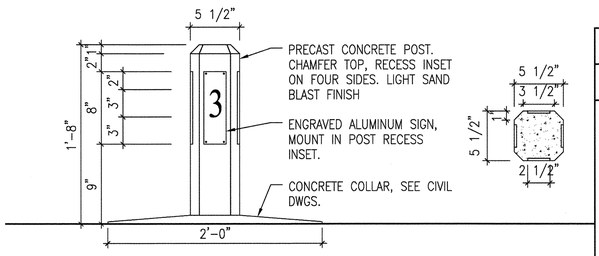
6 A-7 SIGN AND POST DETAIL

SCALE: 3" = 1'-0"



7 A-7 SERVICE SEAL DETAIL

SCALE: 1" = 1'-4"



8 A-7 SECTION MARKER

SCALE: 1-1/2" = 1'-0"

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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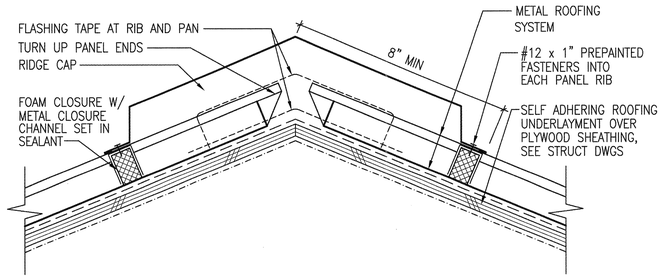
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

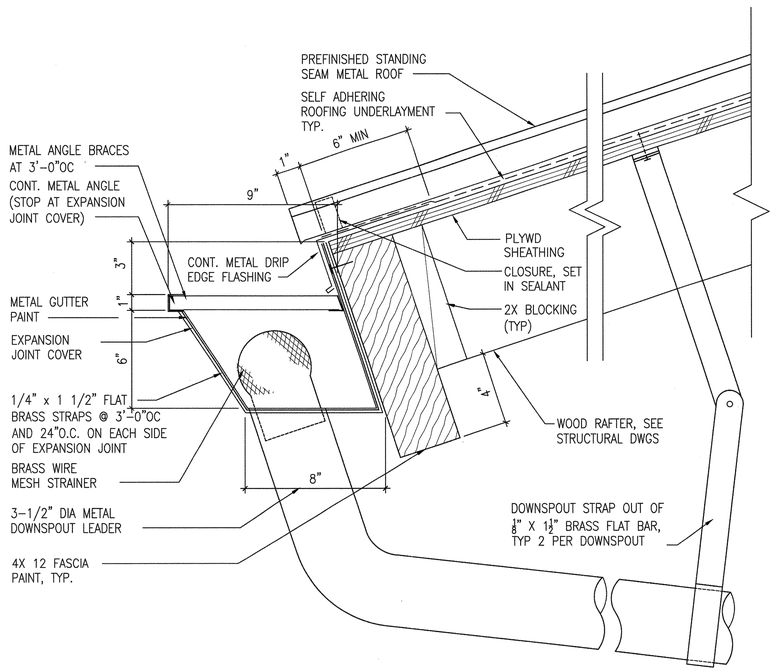
ENTRANCE GROUND SIGN, GETTYSBURG ADDRESS SIGN INFORMATION SIGN AND SERVICE SEAL DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: NN	CHECKED BY: NN	15-14-7509	A-7
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 54 OF 80 SHTS.
SCALE: AS NOTED			

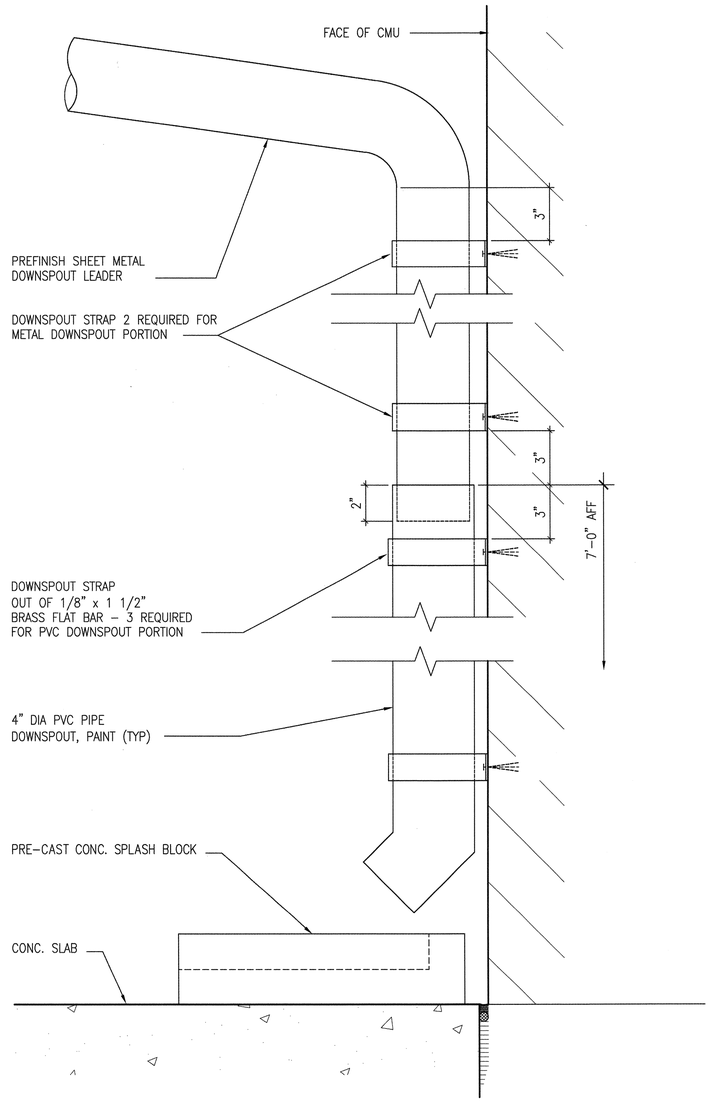
FILE_____DRAWER_____FOLDER_____



1 / A-8 **RIDGE DETAIL (HIP SIM), TYP**
SCALE: 3" = 1'-0"



2 / A-8 **EAVE AND GUTTER DOWNSPOUT DETAIL, TYP.**
SCALE: 3" = 1'-0"



3 / A-8 **DOWNSPOUT DETAIL**
SCALE: 3" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. A-8
DESIGNED BY: NN	CHECKED BY: NN		
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 55 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

DOOR SCHEDULE

DOOR NO.	BUILDING/ROOM NAME	SIZE (W X H)	TYPE (NOTE 2)	THK. (NOTE 3)	DOOR CONSTR. (NOTE 4)	FRAME CONSTR. (NOTE 5)	VISION PANEL (NOTE 6)	FINISH (NOTE 7) DOOR	FINISH (NOTE 7) FRAME	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE GROUP	REMARKS (NOTE 9)
1	STORAGE	6'-0" X 7'-0"	A	√	MET	MET	–	MP	MP	1/A-9	1/A-9	2/A-9	1	
2	STORAGE	6'-0" X 7'-0"	A	√	MET	MET	–	MP	MP	1/A-9	1/A-9	2/A-9	1	
3	STORAGE	6'-0" X 7'-0"	A	√	MET	MET	–	MP	MP	1/A-9	1/A-9	2/A-9	1	
4	STORAGE	6'-0" X 7'-0"	A	√	MET	MET	–	MP	MP	1/A-9	1/A-9	2/A-9	1	
5	WEST ENTRANCE	6'-0" X 7'-0"	B	√	MET	MET	–	MP	MP	3/A-9	1/A-9	2/A-9	3	
6	WEST ENTRANCE	6'-0" X 7'-0"	B	√	MET	MET	–	MP	MP	3/A-9	1/A-9	2/A-9	3	
7	OVERHEAD ROLL UP SERVICE DOOR	16'-0" X 12'-8"	C	–	MET	MET	–	–	–	SEE SPECS	SEE SPECS	SEE SPECS	2	OVER HEAD SERVICE DOOR PERMANUFACTURER

DOOR SCHEDULE NOTES

1. (√) SHOWN ON SCHEDULE INDICATES TYPICAL.
   (–) INDICATES FEATURE NOT REQUIRED.
2. DOOR TYPES: SEE DOOR TYPE SCHEDULE ON THIS SHEET
3. THICKNESS:
   TYPICAL (√) ALL DOORS 1 3/4" THICK UNLESS OTHERWISE NOTED.
4. DOOR CONSTRUCTION:
   SC = SOLID WOOD CORE
   MET = HOLLOW METAL
   GL = CLEAR SAFETY GLASS
5. FRAME CONSTRUCTION:
   WD = WOOD
   MET = METAL
   ALUM = ANODIZED ALUMINUM
6. GLASS VISION PANEL: TYPICAL (√)
   CLEAR SAFETY GLASS W/ PAINTED METAL FRAME. U.O.N.
7. FACING & FINISH:
   MP = METAL, PAINTED
   WP = WOOD, PAINTED
8. – HARDWARE GROUP SET, SEE SPECIFICATIONS
   – FOLLOW ADA DESIGN GUIDELINES FOR DOOR HARDWARE, SEE SECTION 404.2.7 IN THE 2010 ADA STANDARDS. TYPICAL HEIGHT FOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE 34" MIN. AND 48" MAX. ABOVE FINISH FLOOR.
9. REMARKS:
   A: FIXED CLEAR GLASS TRANSOM W/ SECURITY SCREEN.
   B: PRE-FINISHED METAL LOUVER TRANSOM W/ INSECT SCREEN.
   C: SEE SPECS FOR ALUMINUM FINISH.
   D: 1-HR. FIRE RATED OBSCURE GLAZING
   E: 180 DEGREE SWING OPEN.
   F: 4" METAL FRAME AT HEAD ONLY.
   G: UNDERCUT DOOR 1"
   H: 1-HR. FIRE RATED FRAME AND DOOR

BORING LOGS

LOG OF BORING NO. 1
EQUIPMENT USED: B-53 Drill Rig
DATE DRILLED: April 4, 2013
ELEVATION: see Plate 2
DEPTH OF BORING (FT.): 8
DEPTH OF GROUNDWATER: unknown

DEPTH (FT.)	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION	SAMPLE NUMBER	COLOUR	MOISTURE	CONSISTENCY	DRY DENSITY (LB/CU.FT.)	MOISTURE CONTENT (% OF DRY WT.)	SHEAR STRENGTH (PSF)
0		MH/ML	sandy SILT	4	dark reddish brown to dark brown	moist to very moist	soft	85.7	31.9	
1.5							mod. stiff		36.1	
3		ML	sandy SILT	14	dark yellowish brown	very moist	stiff		47.2	
4.5					dark reddish brown					
6				13					40.8	
7.5			END OF BORING AT 8 FEET							
9										
10.5										

PROJECT NAME: MAUI VETERANS CEMETERY EXPANSION
PROJECT NO.: 1316D8-FM
ISLAND GEOTECHNICAL ENGINEERING, INC.
Geotechnical Consultants
PLATE 3

LOG OF BORING NO. 2
EQUIPMENT USED: B-53 Drill Rig
DATE DRILLED: April 4, 2013
ELEVATION: see Plate 2
DEPTH OF BORING (FT.): 11
DEPTH OF GROUNDWATER: unknown

DEPTH (FT.)	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION	SAMPLE NUMBER	COLOUR	MOISTURE	CONSISTENCY	DRY DENSITY (LB/CU.FT.)	MOISTURE CONTENT (% OF DRY WT.)	SHEAR STRENGTH (PSF)
0		MH/ML	sandy SILT	5	dark reddish brown	moist to very moist	soft	91.9	27.1	
1.5							mod. stiff		34.7	
3		ML	sandy SILT with gravel	13	very dusky red	very moist	stiff		41.8	
4.5									32.9	
6		ML	sandy SILT		dark reddish brown				45.2	
7.5		ML	sandy SILT with gravel	10	very dusky red				50.6	
9		GM	silty GRAVEL with sand				mod. dense		33.0	
10.5		ML	sandy SILT with gravel	7			mod. stiff		43.4	
			END OF BORING AT 11 FEET						42.5	

PROJECT NAME: MAUI VETERANS CEMETERY EXPANSION
PROJECT NO.: 1316D8-FM
ISLAND GEOTECHNICAL ENGINEERING, INC.
Geotechnical Consultants
PLATE 4

LOG OF BORING NO. 3
EQUIPMENT USED: B-53 Drill Rig
DATE DRILLED: April 4, 2013
ELEVATION: see Plate 2
DEPTH OF BORING (FT.): 11
DEPTH OF GROUNDWATER: unknown

DEPTH (FT.)	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION	SAMPLE NUMBER	COLOUR	MOISTURE	CONSISTENCY	DRY DENSITY (LB/CU.FT.)	MOISTURE CONTENT (% OF DRY WT.)	SHEAR STRENGTH (PSF)
0		MH/ML	sandy SILT	4	dark reddish brown	moist to very moist	soft	86.3	25.5	
1.5							mod. stiff		28.2	
3		ML	sandy SILT with gravel	14		very moist	stiff		51.3	
4.5									44.7	
6				10	very dusky red				34.8	
7.5							mod. stiff			
9				6					46.4	
10.5			END OF BORING AT 11 FEET							

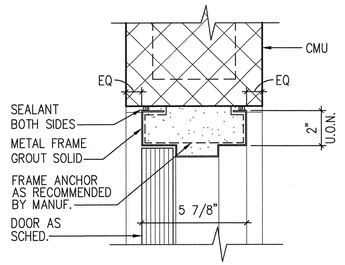
PROJECT NAME: MAUI VETERANS CEMETERY EXPANSION
PROJECT NO.: 1316D8-FM
ISLAND GEOTECHNICAL ENGINEERING, INC.
Geotechnical Consultants
PLATE 5

LOG OF BORING NO. 4
EQUIPMENT USED: B-53 Drill Rig
DATE DRILLED: April 4, 2013
ELEVATION: see Plate 2
DEPTH OF BORING (FT.): 8
DEPTH OF GROUNDWATER: unknown

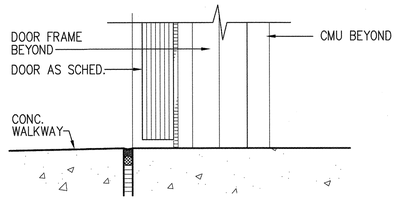
DEPTH (FT.)	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION	SAMPLE NUMBER	COLOUR	MOISTURE	CONSISTENCY	DRY DENSITY (LB/CU.FT.)	MOISTURE CONTENT (% OF DRY WT.)	SHEAR STRENGTH (PSF)
0		MH/ML	sandy SILT	13	dark yellowish brown	moist to very moist	mod. stiff	98.9	33.2	
1.5							stiff		31.9	
3		ML	sandy SILT	16	dark reddish brown to dusky red	very moist	very stiff		45.1	
4.5									49.5	
6							stiff		48.6	
7.5				12					44.3	
9			END OF BORING AT 8 FEET							
10.5										

PROJECT NAME: MAUI VETERANS CEMETERY EXPANSION
PROJECT NO.: 1316D8-FM
ISLAND GEOTECHNICAL ENGINEERING, INC.
Geotechnical Consultants
PLATE 6

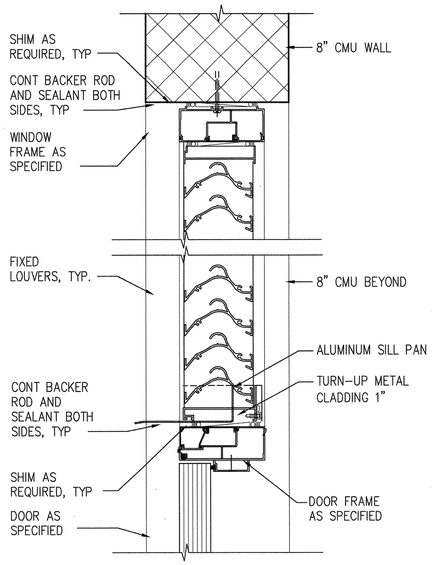
TYPICAL MOUNTING HEIGHT



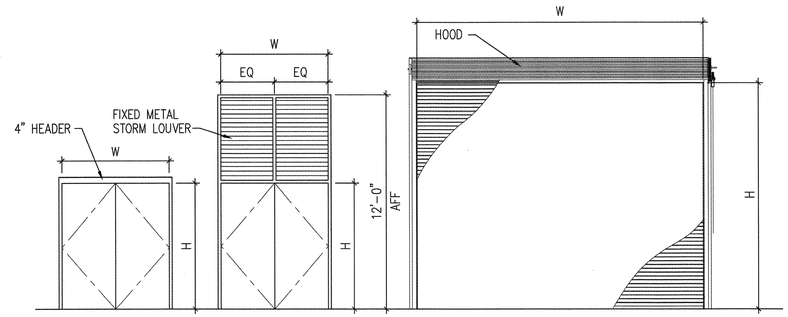
1 / A-9 **HEAD (JAMB SIM)**
SCALE: 3" = 1'-0"



2 / A-9 **THRESHOLD**
SCALE: 3" = 1'-0"



3 / A-9 **LOUVER DETAIL**
SCALE: 3" = 1'-0"



DOOR TYPES

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

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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LICENSED PROFESSIONAL ARCHITECT
No. 5229
HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DOOR SCHEDULE

DESIGN PARTNERS INCORPORATED

DESIGNED BY:	CHECKED BY:	DAGS JOB NO.	DRAWING NO.
NN	NN	15-14-7509	A-9
DRAWN BY: JK	APPROVED BY: DH	DATE: OCTOBER 2014	SHEET 56 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

GENERAL:

A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE STATE BUILDING CODE (AMENDED IBC, 2006 EDITION). HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.

B. THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE CONTRACTING OFFICER ALL INCONSISTENCIES AND OMISSIONS.

C. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE CONTRACTING OFFICER ALL INCONSISTENCIES AND OMISSIONS.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.

F. CONSTRUCTION LOADING SHALL NOT EXCEED DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. ALLOWABLE LOADS SHALL BE REDUCED IN AREAS WHERE THE STRUCTURE HAS NOT ATTAINED FULL DESIGN STRENGTH.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.

H. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.

DESIGN CRITERIA:

A. SEISMIC
   a. Ss=1.018
   b. S1=0.263
   c. OCCUPANCY CATEGORY II

B. WIND
   a. WIND SPEED=105 MPH
   b. EXPOSURE C

C. DESIGN LIVE LOADS
   a. ROOF 20 PSF

D. FOUNDATION
   a. MAXIMUM ALLOWABLE FOUNDATION BEARING PRESSURES
      DEAD LOAD + LIVE LOAD 1,500 PSF
      DEAD LOAD + LIVE LOAD + WIND OR SEISMIC 2,000 PSF
   b. PASSIVE EARTH PRESSURE 150 PSF PER FOOT
   c. COEFFICIENT OF FRICTION 0.35

SPECIAL INSPECTION:

A. THE CONTRACTOR SHALL RETAIN AND PAY AN INDEPENDENT SPECIAL INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE COUNTY OF MAUI, BE MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER IN A TIMELY MANNER. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE COUNTY AND PAY FOR RE-INSPECTION.

B. THE FOLLOWING STRUCTURAL WORK REQUIRES SPECIAL INSPECTION:
   a. CONCRETE
   b. BOLTS INSTALLED IN CONCRETE
   c. REINFORCING STEEL
   d. STRUCTURAL MASONRY
   e. COMPLETE LOAD PATH AND UPLIFT TIES

FOUNDATION:

A. FOUNDATION DESIGN IS BASED ON "REPORT, SOILS INVESTIGATION, MAUI VETERANS CEMETERY EXPANSION & IMPROVEMENTS, 3355 BALDWIN AVENUE, MAKAWAO, MAUI, HAWAII" PREPARED BY ISLAND GEOTECHNICAL ENGINEERING, INC. AND DATED APRIL 23, 2013.

B. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATION FROM SURFACE WATER, GROUND WATER OR SEEPAGE.

C. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL UNDERPINNING, CRIBBING, SHEETING, AND SHORING NECESSARY TO PRESERVE EXCAVATIONS AND EARTH BANKS.

D. FOOTINGS
   a. FOOTINGS SHALL BE FOUNDED ON FIRM ON-SITE SOIL OR PROPERLY COMPACTED FILL.
   b. ALL LOOSE AND DISTURBED SOIL AT THE BOTTOM OF FOOTING EXCAVATIONS SHALL BE REMOVED TO FIRM SOIL OR THE DISTURBED SOIL SHALL BE COMPACTED PRIOR TO LAYING OF STEEL OR PLACING OF CONCRETE. THE BOTTOM OF ALL FOOTINGS SHALL BE MECHANICALLY COMPACTED TO PRODUCE A FIRM/UNYIELDING SURFACE.
   c. BACKFILL AROUND THE PERIMETER OF ALL FOUNDATIONS SHALL BE MECHANICALLY COMPACTED TO PRODUCE A FIRM/UNYIELDING SURFACE.

E. SLABS-ON-GRADE
   a. BASE COURSE SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D 1557 TEST PROCEDURE.
   b. THE SUBGRADE SOIL SHALL BE MOISTURE CONDITIONED TO WITHIN 0 AND 3 PERCENT OF THE WET-SIDE OF OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D 1557 TEST PROCEDURE IF THE MATERIAL IS GRANULAR OR TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D 1557 TEST PROCEDURE IF THE MATERIAL IS FINE-GRAINED.

F. SITE PREPARATION
   a. ALL VEGETATION, WEEDS, BRUSH, ROOTS, STUMPS, RUBBISH, DEBRIS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
   b. IN AREAS TO RECEIVE FILL AND AT FINISHED SUBGRADE IN CUT ARAS, THE EXPOSED SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF 6 INCHES, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE AND THEN COMPACTED WITH A ROLLER WEIGHING NOT LESS THAN 20,000 POUNDS TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D 1557). IF SOFT OR LOOSE SPOTS ARE ENCOUNTERED THAT CANNOT BE RE-COMPACTED, THE LOOSE/SOFT AREAS SHALL BE REMOVED TO FIRM MATERIAL AND THE RESULTING DEPRESSION SHALL BE FILLED WITH PROPERLY COMPACTED FILL.
   c. WHERE FILL IS PLACED ON EXISTING GROUND THAT IS STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL, THE EXISTING GROUND SURFACE SHALL BE BENCHED INTO FIRM SOIL AS THE FILL IS PLACED.

G. FILL AND BACKFILL IN STRUCTURAL AREAS
   a. STRUCTURAL AREAS SHALL BE DEFINED AS AREAS BENEATH AND TO 3 FT BEYOND THE EDGES OF BUILDINGS/STRUCTURES.
   b. STRUCTURAL FILL AND BACKFILL MATERIAL SHALL CONSIST OF SOIL WHICH IS FREE OF ORGANICS AND DEBRIS. THE MATERIAL SHALL BE 3 INCHES MINUS AND SHALL BE NO MORE EXPANSIVE THAN THE ON-SITE SOIL.
   c. EACH LAYER SHALL BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS. PRIOR TO COMPACTING THE SOIL, THE SOIL'S MOISTURE CONTENT SHALL BE ADJUSTED TO NEAR OPTIMUM MOISTURE CONTENT. EACH LAYER SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY (AS DETERMINED BY THE ASTM D 1557 TEST PROCEDURE) IF THE MATERIAL IS GRANULAR OR TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY (AS DETERMINED BY THE ASTM D 1557 TEST PROCEDURE) IF THE MATERIAL IS FINE-GRAINED.
   d. THE EXISTING MOISTURE CONTENT OF SOME OF THE ON-SITE SOILS WAS FOUND TO BE ON THE WET SIDE OF OPTIMUM MOISTURE CONTENT. USE OF THE ON-SITE SOIL AS FILL MAY REQUIRE AERATION (DRYING) IN ORDER TO OBTAIN OPTIMUM MOISTURE CONTENT (ASTM D 1557) FOR COMPACTION PURPOSES.

H. DURING CONSTRUCTION, DRAINAGE SHALL BE PROVIDED TO PREVENT PONDING OF WATER ADJACENT TO OR ON FOUNDATION AND PAVEMENT AREAS. PONDED AREAS SHALL BE DRAINED IMMEDIATELY OR WATER PUMPED OUT WITHOUT DAMAGING ADJACENT STRUCTURES AND PROPERTY. IF WATER ACCUMULATION SOFTENS THE SUBGRADE MATERIALS, THE AFFECTED SOILS SHALL BE REMOVED AND REPLACED WITH PROPERLY COMPACTED FILL.

I. CONTRACTOR SHALL RETAIN AND PAY A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO OBSERVE THE FOLLOWING ITEMS DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT INSPECTION REPORTS TO THE CONTRACTING OFFICER IN A TIMELY MANNER.
   a. SITE PREPARATION
   b. PLACEMENT OF FILL AND BACKFILL
   c. FOOTING EXCAVATIONS AND SLAB SUBGRADE MOISTURE CONDITIONING AND COMPACTION

CONCRETE:

A. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE ACI 318-05.

B. CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK CONCRETE AND SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:
   a. FOOTINGS 4,000 PSI
   b. SLABS ON GRADE 4,000 PSI
   c. BEAMS 4,000 PSI
   d. ALL OTHER CONCRETE 3,000 PSI

C. CONCRETE DELIVERY TICKETS SHALL RECORD ALL FREE WATER IN THE MIX: AT BATCHING BY PLANT, FOR CONSISTENCY BY DRIVER, AND ANY ADDITIONAL REQUEST BY CONTRACTOR IF PERMITTED BY THE MIX DESIGN.

D. ALL INSERTS, ANCHOR BOLTS, PLATES, AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE NOTED.

E. REINFORCING BARS, ANCHOR BOLTS, INSERTS, AND OTHER ITEMS TO BE CAST IN THE CONCRETE SHALL BE SECURED IN POSITION PRIOR TO PLACEMENT OF CONCRETE.

F. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB OR FOOTING AND NOT CONFORMING TO TYPICAL DETAILS SHALL BE LOCATED AND SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.

G. CONDUITS, PIPES, AND SLEEVES EMBEDDED WITHIN A SLAB OR WALL (OTHER THAN THOSE MERELY PASSING THROUGH) SHALL BE:
   a. NO LARGER IN OUTSIDE DIMENSIONS THAN ONE THIRD THE OVERALL SLAB OR WALL THICKNESS IN WHICH THEY ARE EMBEDDED.
   b. PLACED IN THE MIDDLE ONE THIRD OF SLAB OR WALL THICKNESS
   c. SPACED NO CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.

H. CONDUITS, PIPES, AND SLEEVES SHALL NOT BE PLACED THROUGH OR EMBEDDED IN A BEAM UNLESS SPECIFICALLY DETAILED.

I. THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE STRESSES. SUBMIT LOCATION OF CONSTRUCTION JOINTS TO THE CONTRACTING OFFICER FOR APPROVAL, UNLESS OTHERWISE NOTED.

J. SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, EDGE RADII, DRIPS, REGLETS, FINISHES AND OTHER NON-STRUCTURAL ITEMS NOT SHOWN OR SPECIFIED ON THE STRUCTURAL DRAWINGS.

K. NON-SHRINK GROUT SHALL BE A PREMIXED NON-METALLIC FORMULA, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 1 DAY AND 5,000 PSI IN 28 DAYS.

REINFORCING STEEL:

A. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.

B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GALVANIZED.

C. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
   a. FOOTINGS, GRADE BEAMS, ETC. CAST AGAINST EARTH 3"
   b. FOOTINGS, GRADE BEAMS, ETC. FORMED AND EXPOSED TO EARTH OR WEATHER 2"
   c. BEAMS PRIMARY REINFORCEMENT, STIRRUPS, TIES AND SPIRALS 2"
   d. STRUCTURAL SLABS 2"

D. CLEAR DISTANCE BETWEEN THE SURFACE OF A BAR AND ANY SURFACE OF A MASONRY UNIT SHALL BE NOT LESS THAN 1/2 INCH, UNLESS OTHERWISE NOTED.

E. REINFORCING STEEL SHALL BE SPLICED WHERE INDICATED ON PLANS. PROVIDE LAP SPLICE LENGTH OF 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED.

F. WELDED WIRE FABRIC SHALL BE LAPPED 8 INCHES OR ONE FULL MESH PLUS 2 INCHES, WHICHEVER IS GREATER.

G. BAR BENDS AND HOOKS SHALL BE "STANDARD HOOKS" IN ACCORDANCE WITH ACI 318.

H. EPOXY SHALL BE SIMPSON SET-XP HIGH STRENGTH EPOXY AS MANUFACTURED BY SIMPSON STRONG TIE CO., INC. INSTALL PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

CONCRETE MASONRY UNITS (CMU):

A. CONCRETE MASONRY UNITS SHALL BE TYPE II, MEDIUM WEIGHT HOLLOW LOAD-BEARING UNITS CONFORMING TO ASTM C-90 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI.

B. MORTAR SHALL BE TYPE "M" CONFORMING TO ASTM C270 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

C. GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

D. ALL CELLS AND BOND COURSES SHALL BE SOLID GROUTED. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5'-4" IN HEIGHT.

E. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1 1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.

F. THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE STRESSES.

G. CONDUITS, PIPES, AND SLEEVES SHALL NOT BE PLACED THROUGH OR EMBEDDED IN A WALL UNLESS SPECIFICALLY DETAILED.

H. SEE ARCHITECTURAL DRAWINGS FOR LAYING PATTERN, HEIGHT OF UNITS, SURFACE TEXTURE, AND JOINT TYPE.

PRECAST CONCRETE KNOB BLOCKS:

A. KNOB BLOCKS SHALL 30 INCH BY 30 INCH BY 60 INCH INTERLOCKING PRECAST CONCRETE UNITS FABRICATED BY WALKER INDUSTRIES, LTD. OR APPROVED EQUAL.

B. CONCRETE FOR KNOB BLOCKS SHALL BE REGULAR WEIGHT HARD ROCK CONCRETE AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.

C. KNOB BLOCKS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND.

D. KNOB BLOCKS SHALL BE PLACED BY WORKMEN EXPERIENCED WITH THE INSTALLATION OF WALLS OF SIMILAR TYPE AND SIZE.

LUMBER:

A. LUMBER SHALL BE TERMITE AND ROT PRESSURE PRESERVATIVE TREATED COASTAL DOUGLAS FIR CONFORMING WITH STANDARD GRADING AND DRESSING RULES OF THE WEST COAST LUMBER BUREAU (WCLB).

B. UNLESS OTHERWISE NOTED, STRUCTURAL MEMBERS SHALL HAVE THE FOLLOWING GRADES OR BETTER:
   a. 2x FRAMING GRADE NO. 2
   b. 4x FRAMING GRADE NO. 1

C. SHEATHING SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF U.S. PRODUCT STANDARD PS 1 OR APA'S PERFORMANCE STANDARDS.

D. PROVIDE MINIMUM NAILING PER TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.

E. NAILS SHALL BE GALVANIZED COMMON NAILS.

F. WOOD SCREWS SHALL BE SIMPSON STRONG-TIE STRONG-DRIVE SCREWS OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

G. BOLTS SHALL CONFORM TO ASTM A307, HOT-DIPPED GALVANIZED.

H. HEADED ANCHOR BOLTS SHALL CONFORM TO ASTM F 1554, GRADE 36, GALVANIZED.

I. PREFABRICATED FRAMING HARDWARE SHALL BE SIMPSON STRONG-TIE WITH ZMAX COATING, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

J. PLACE A LAYER OF 30# ROOFING FELT BETWEEN ALL WOOD MEMBERS AND CONCRETE OR MASONRY SURFACES.

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

SUSAN Y. KUNITOSHI
LICENSED PROFESSIONAL ENGINEER
No. 9366-S
HAWAII, U.S.A.

Susan Kunitoshi

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

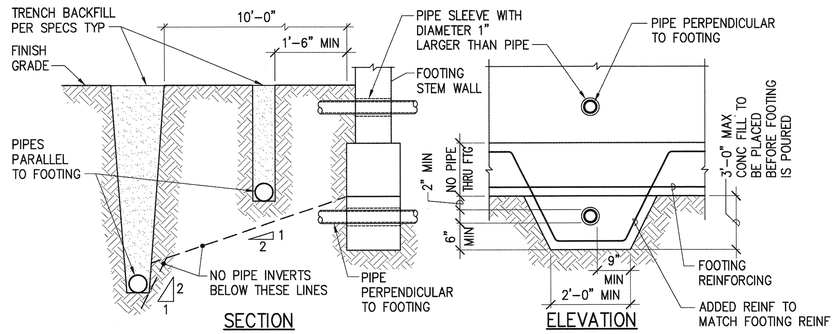
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

GENERAL NOTES

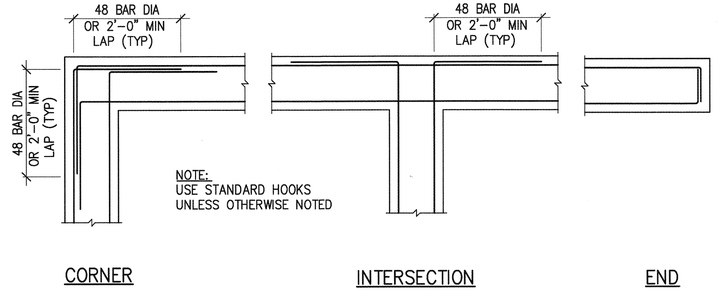
DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: SK	CHECKED BY: GM	15-14-7509	S-1.1
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 57 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

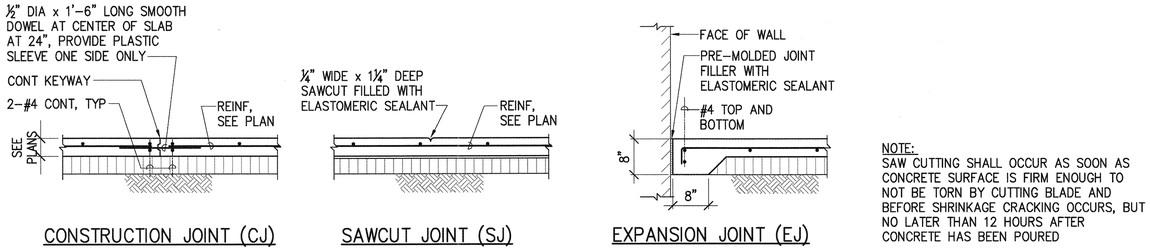


NOTES:
1. FOR PIPE PERPENDICULAR TO FOOTING AND MORE THAN 3'-0" BELOW BOTTOM OF FOOTING, TRENCH MAY BE BACKFILLED WITH COMPACTED FILL. SEE SPECIFICATIONS.
2. DEPTH OF FOOTING MAY BE AFFECTED BY LOCATION OF PIPES. CONTRACTOR SHALL DETERMINE EXACT DEPTH AND LOCATION OF PIPES PRIOR TO EXCAVATION FOR FOOTINGS.

1 S-1.2 TYPICAL PIPE AT FOOTING DETAIL
NOT TO SCALE

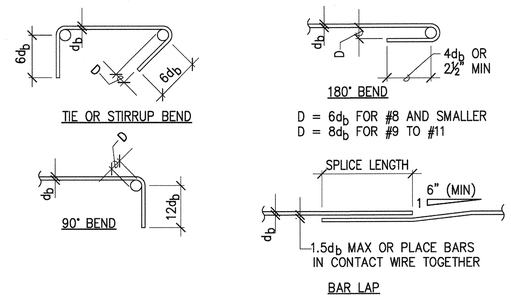


2 S-1.2 FOOTING INTERSECTION REINFORCEMENT
NOT TO SCALE

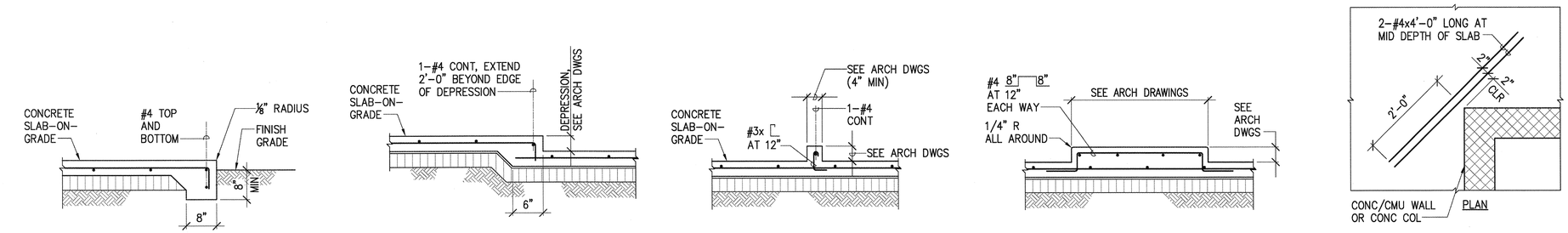


NOTE:
SAW CUTTING SHALL OCCUR AS SOON AS CONCRETE SURFACE IS FIRM ENOUGH TO NOT BE TORN BY CUTTING BLADE AND BEFORE SHRINKAGE CRACKING OCCURS, BUT NO LATER THAN 12 HOURS AFTER CONCRETE HAS BEEN POURED

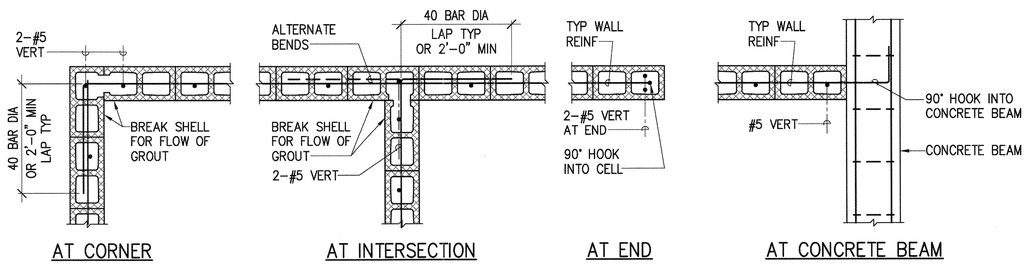
3 S-1.2 TYPICAL SLAB JOINT DETAILS
NOT TO SCALE



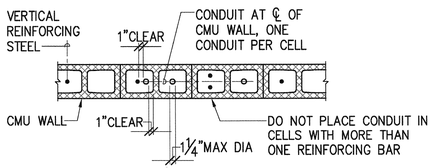
4 S-1.2 REBAR STANDARD HOOKS AND BENDS
NOT TO SCALE



5 S-1.2 TYPICAL SLAB-ON-GRADE DETAILS
NOT TO SCALE



6 S-1.2 CMU WALL REINFORCING AT BOND BEAM
NOT TO SCALE



NOTES:
1. DO NOT EMBED HORIZONTAL CONDUITS IN CMU WALLS.
2. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CMU WALLS.

7 S-1.2 CONDUITS AT CMU WALL
NOT TO SCALE

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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TYPICAL DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: SK	CHECKED BY: GM	15-14-7509	S-1.2
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 58 OF 80 SHTS.
SCALE: AS NOTED			

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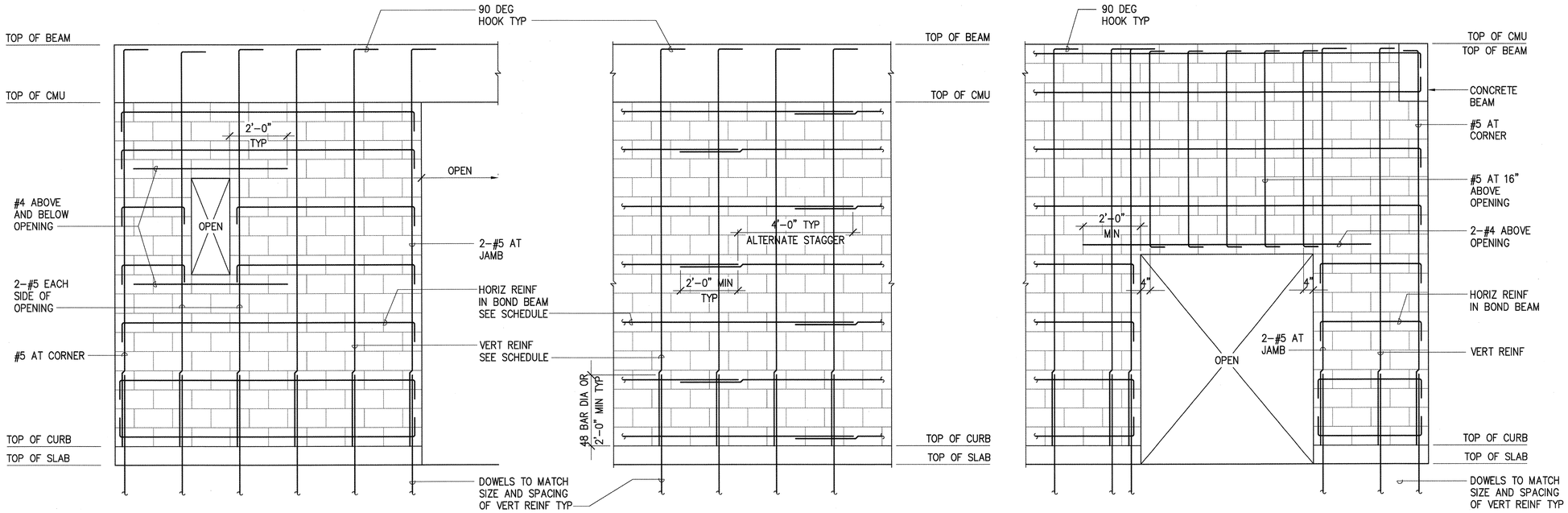
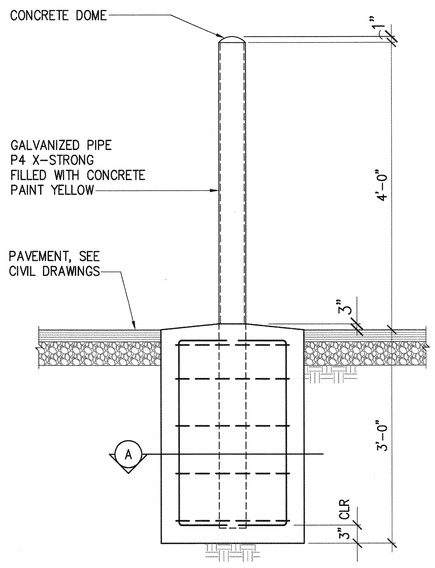


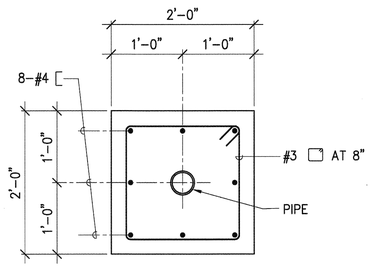
CMU WALL REINFORCING SCHEDULE			
WALL THICKNESS	BAR SIZE AND SPACING		
	HORIZ	VERT	REMARKS
8"	#4 AT 24"	#5 AT 24"	TYPICAL AT 8" CMU

NOTES:
1. ALL WALLS SHALL BE GROUTED SOLID.
2. ALL FOOTING DOWELS SHALL HAVE 90 DEGREE HOOKS.

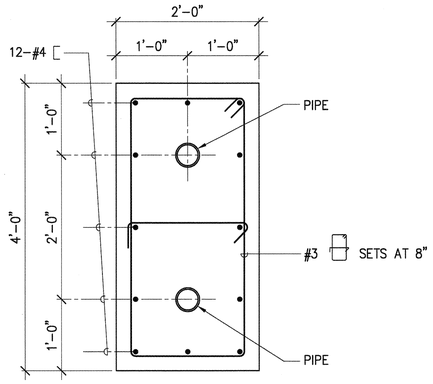
1 S-1.3 CMU WALL ELEVATIONS
NOT TO SCALE



ELEVATION



SINGLE



DOUBLE

A SECTION

2 S-1.3 BOLLARD DETAILS
SCALE: 1" = 1'-0"

GRAPHIC SCALE
1"=1'-0"
1' 0 1' 2'
SCALE IN FEET

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CMU WALL ELEVATIONS AND DETAILS

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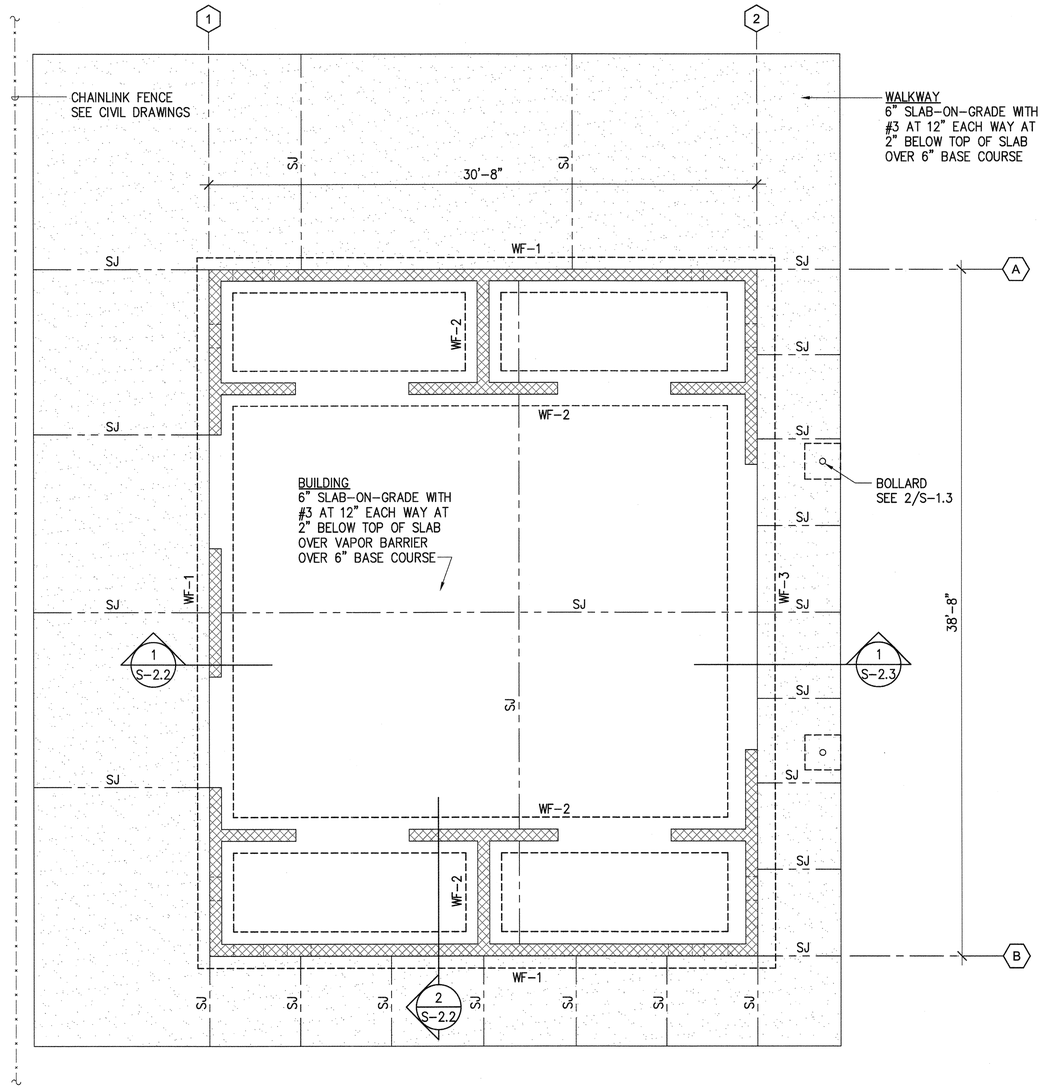
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 59 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____



NORTH

MAINTENANCE BUILDING FOUNDATION PLAN

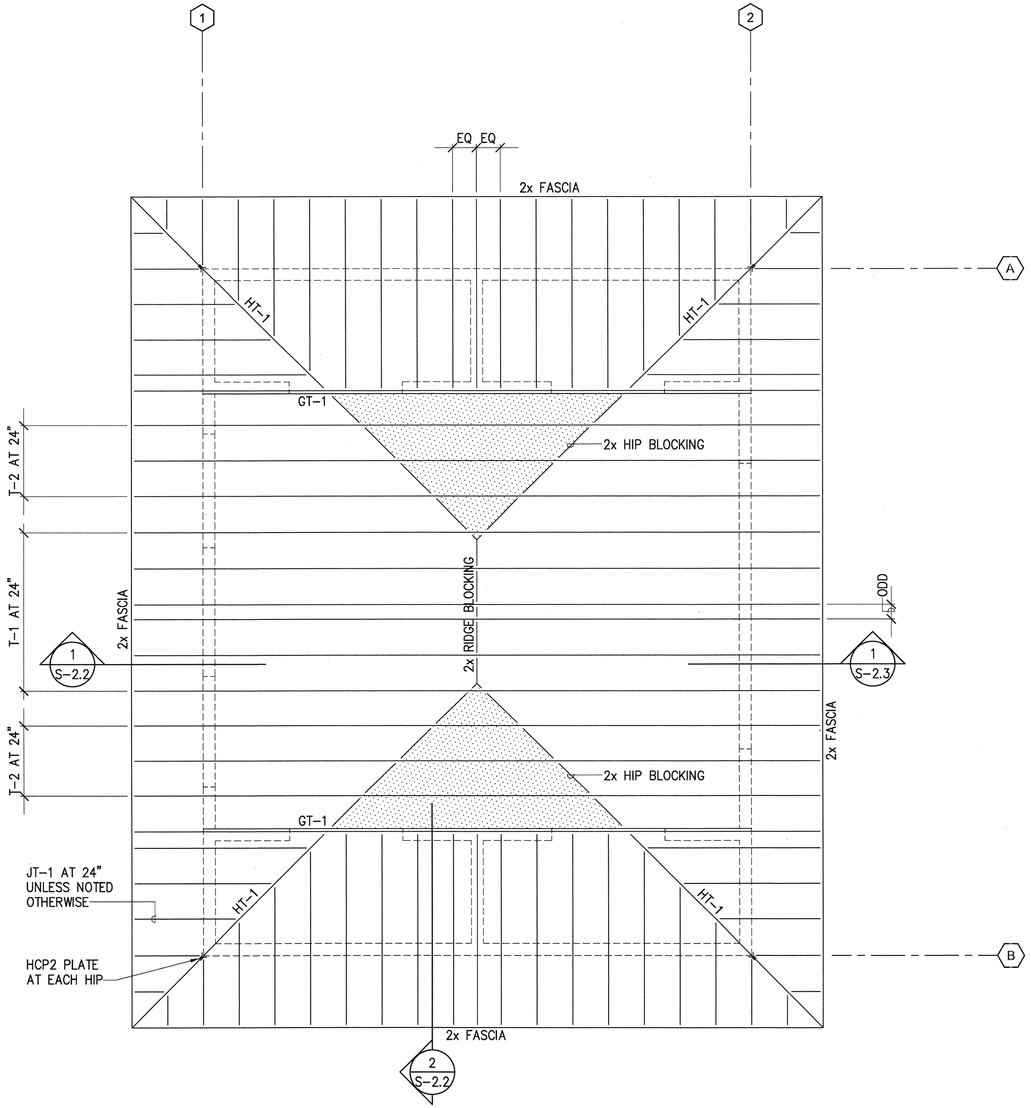
SCALE: 1/4"=1'-0"

FOUNDATION NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
2. SEE GENERAL NOTES SHEET S-1.1 FOR SUBGRADE PREPARATION
3. THICKNESS OF SLAB-ON-GRADE SHOWN IS A MINIMUM THICKNESS AND SHALL BE MAINTAINED AT ALL SLOPED AND DEPRESSED AREAS
4. SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATIONS OF DEPRESSED SLABS, SLOPES TO DRAIN, FINISH FLOOR ELEVATIONS AND EQUIPMENT PAD LOCATIONS

FOUNDATION LEGEND:

WF-1	INDICATES WALL FOOTING TYPE, SEE SHEET S-2.2
SJ	INDICATES SLAB JOINT TYPE, SEE SHEET S-1.2
	INDICATES CMU WALL



NORTH

MAINTENANCE BUILDING ROOF FRAMING PLAN

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

ROOF NOTES:

FOR ROOF SHEATHING SEE SHEET S-2.4

ROOF LEGEND:

T-1	INDICATES TRUSS TYPE SEE SHEET S-2.4
GT-1	INDICATES GIRDER TRUSS TYPE SEE SHEET S-2.4
HT-1	INDICATES HIP TRUSS TYPE SEE SHEET S-2.4
JT-1	INDICATES JACK TRUSS TYPE SEE SHEET S-2.4
	INDICATES 2x6 AT 24" BUILT-UP FRAMING
	INDICATES CMU WALLS BELOW

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0' 4'

SCALE IN FEET

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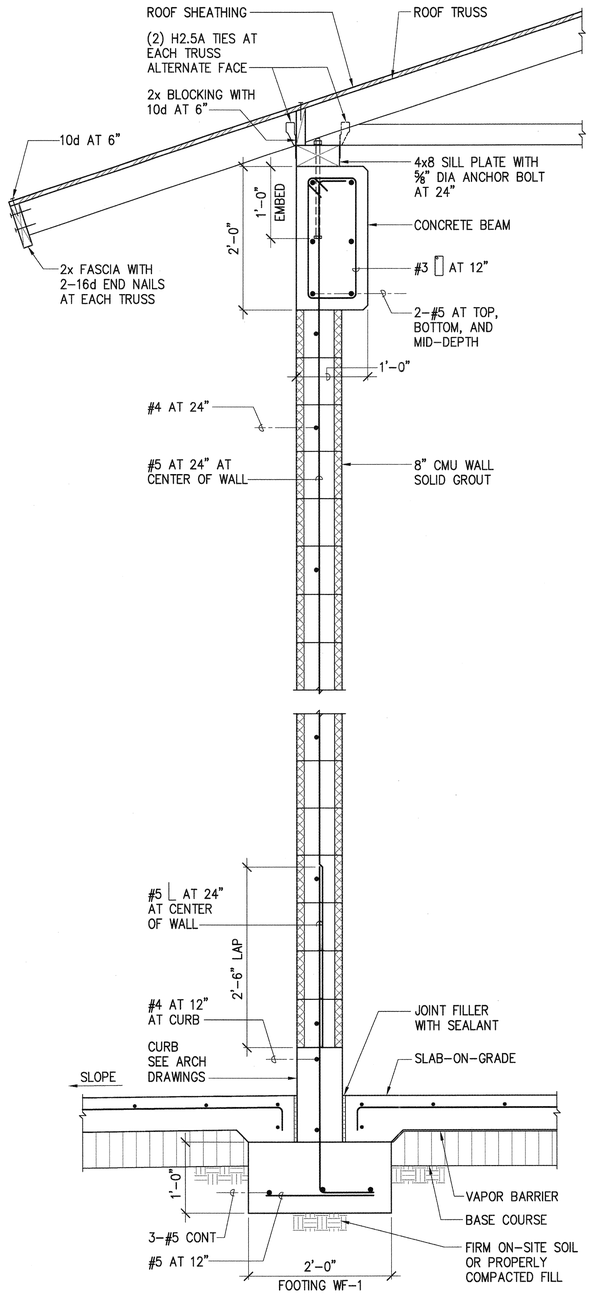
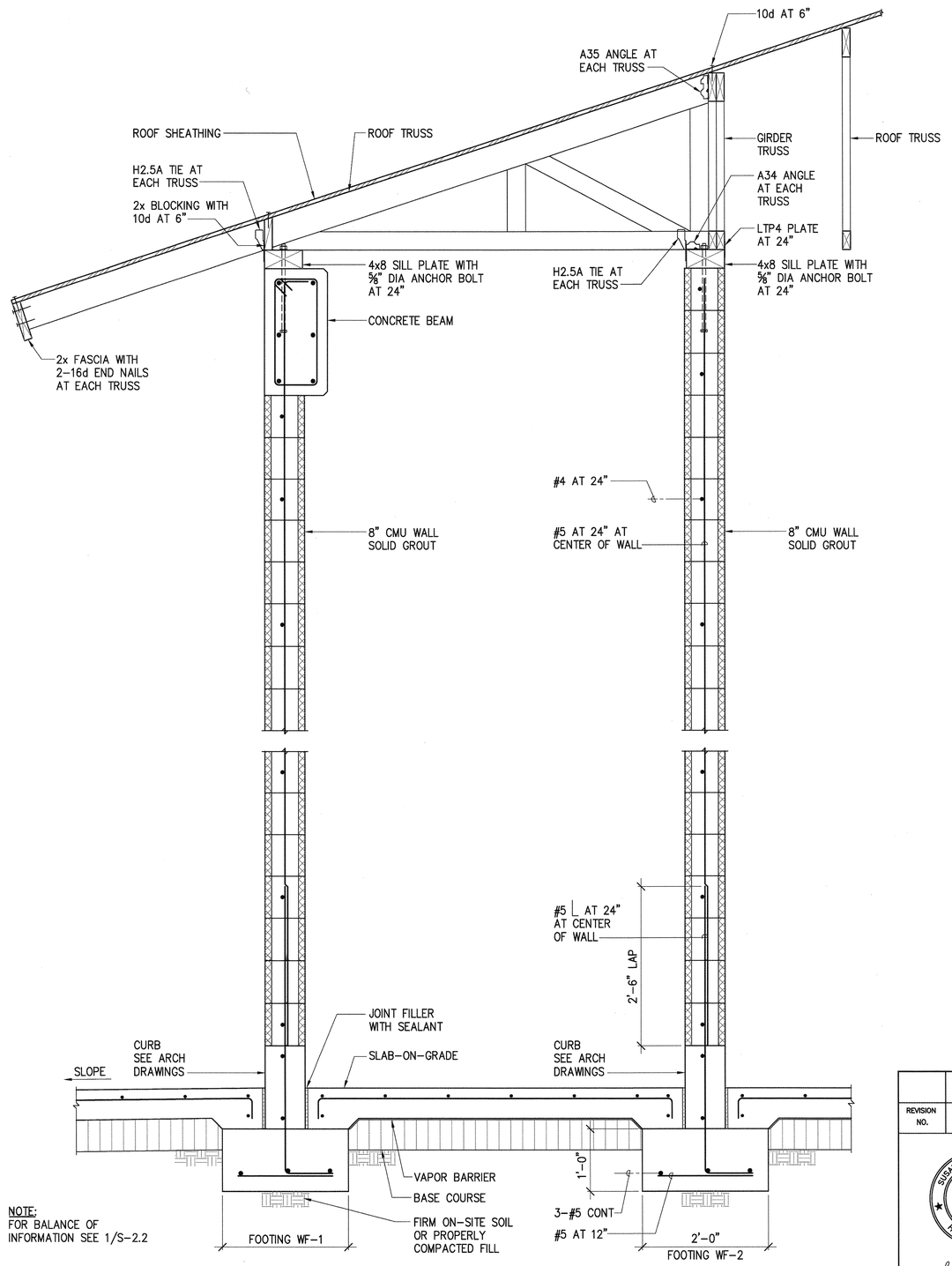
FOUNDATION AND ROOF FRAMING PLANS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. S-2.1
DESIGNED BY: SK	CHECKED BY: GM		
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 60 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



1 S-2.2 SECTION
SCALE: 1" = 1'-0"



NOTE:
FOR BALANCE OF INFORMATION SEE 1/S-2.2

2 S-2.2 SECTION
SCALE: 1" = 1'-0"

GRAPHIC SCALE
1"=1'-0"
1' 0 1' 2'
SCALE IN FEET

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

SUSAN Y. KUNIYOSHI
LICENSED PROFESSIONAL ENGINEER
No. 9366-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

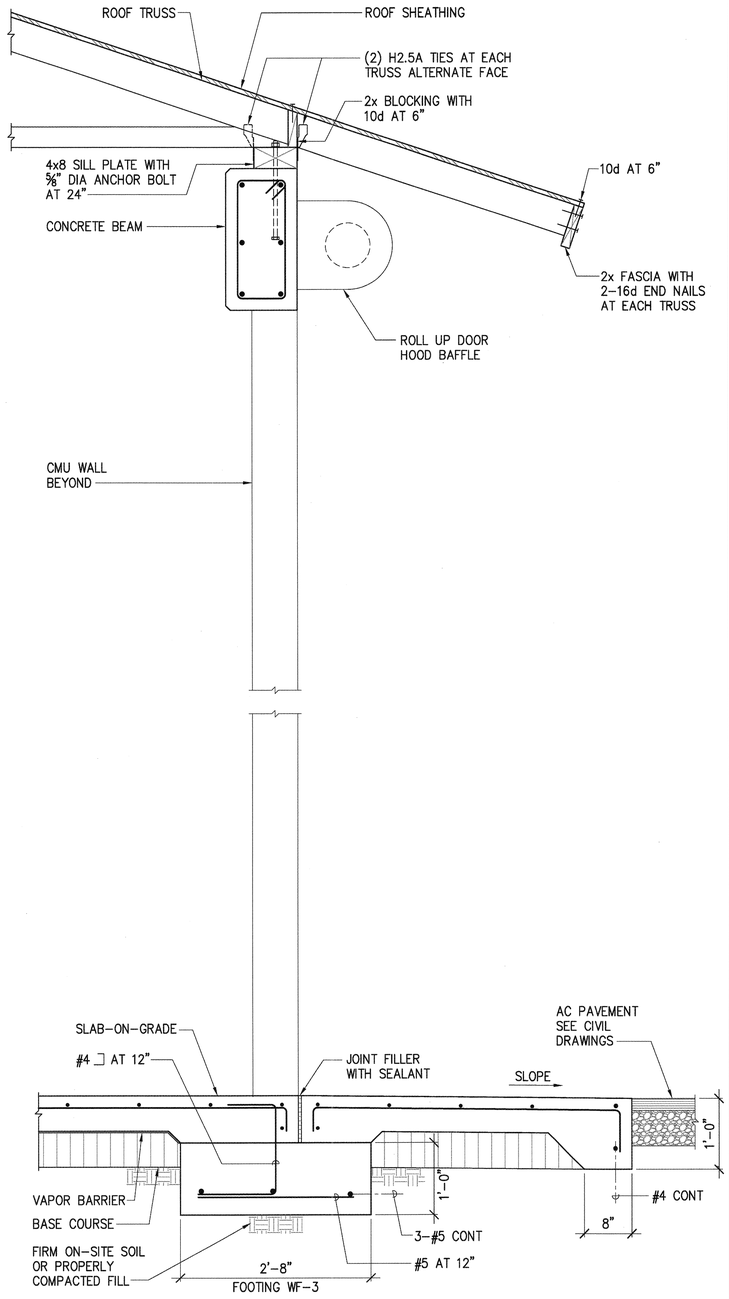
MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

SECTIONS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. S-2.2
DESIGNED BY: SK	CHECKED BY: GM		
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 61 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



NOTE;
FOR BALANCE OF INFORMATION SEE 1/S-2.2

1 / S-2.3 SECTION
SCALE: 1" = 1'-0"

GRAPHIC SCALE
1"=1'-0"
1' 0 1' 2'
SCALE IN FEET

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PUBLIC WORKS DIVISION, STATE OF HAWAII

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COUNTY OF MAUI, HAWAII

SECTIONS

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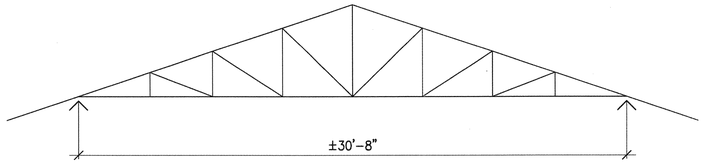
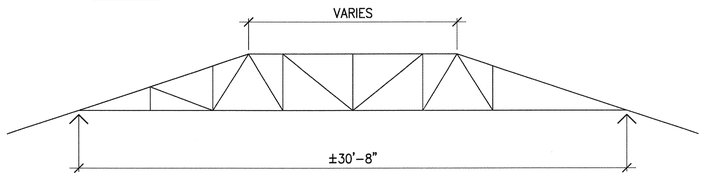
DESIGNED BY: SK	CHECKED BY: GM	15-14-7509	S-2.3
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 62 OF 80 SHTS.
SCALE: AS NOTED			

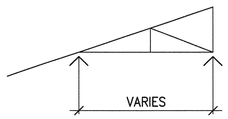
FILE_____DRAWER_____FOLDER_____



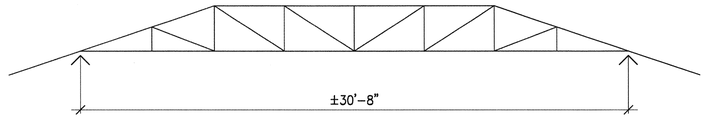
TRUSS T-1



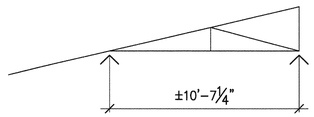
TRUSS T-2



TRUSS JT



TRUSS GT-1



TRUSS HT-1

TRUSS ELEVATIONS

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

PRE-ENGINEERED WOOD ROOF TRUSSES:

A. ALL WORK SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE AND "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" AS ADOPTED BY THE TRUSS PLATE INSTITUTE.

B. PREFABRICATED WOOD TRUSSES SHALL BE FACTORY FABRICATED WITH TERMITE AND ROT TREATED DOUGLAS FIR, GRADE AS REQUIRED TO MEET STRESS REQUIREMENTS.

C. CONNECTOR PLATES SHALL BE PRIME COMMERCIAL QUALITY GALVANIZED STEEL SHEETS NO LESS THAN 20 GAGE THICKNESS AND G185 COATING.

D. THE FABRICATOR SHALL HAVE A MINIMUM OF 3 YEARS SUCCESSFUL EXPERIENCE IN THE FABRICATION OF PREFABRICATED WOOD TRUSSES, SIMILAR TO THE TRUSSES REQUIRED FOR THIS PROJECT. THE FABRICATOR SHALL HAVE SUFFICIENT PRODUCTION CAPACITY TO PRODUCE, TRANSPORT AND DELIVER THE REQUIRED TRUSSES WITHOUT CAUSING DELAY IN THE WORK.

E. STRUCTURAL CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE LAYOUT OF TRUSSES, TRUSS CONFIGURATION, MEMBER SIZES, CONNECTION DETAILS, FABRICATION DETAILS AND BRACING REQUIREMENTS. STRUCTURAL CALCULATIONS SHALL BE CERTIFIED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF HAWAII.

F. CONTRACTOR AND TRUSS MANUFACTURER SHALL VERIFY ALL TRUSS DIMENSIONS.

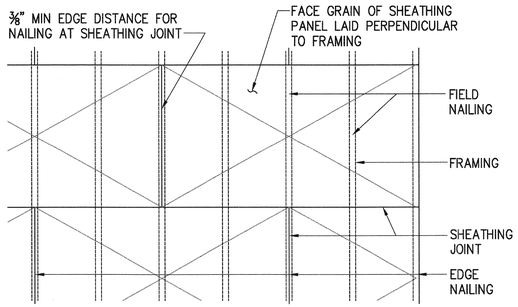
G. SEE ARCHITECTURAL DRAWINGS FOR SLOPES OF TOP AND BOTTOM CHORDS.

H. WEB CONFIGURATIONS SHOWN ON ELEVATIONS ARE SCHEMATIC. TRUSS MANUFACTURER SHALL DETERMINE ACTUAL WEB CONFIGURATION.

I. DOUBLE TRUSSES SHALL BE NAILED TO EACH OTHER WITH 16d COMMON NAILS AT 10" OC ALONG ALL TRUSS MEMBERS.

J. DESIGN SHALL BE BASED ON THE FOLLOWING CRITERIA:
   a. ROOF DEAD LOAD (NOT INCLUDING SELF WEIGHT OF TRUSSES) = 7 PSF
   b. ROOF LIVE LOAD TOP CHORD = 20 PSF
   c. BOTTOM CHORD LIVE LOAD = 10 PSF
   d. WIND SPEED = 105 MPH
   e. WIND EXPOSURE C
   f. TOP CHORD AND BOTTOM CHORD LIVE LOAD NEED NOT ACT CONCURRENTLY.

K. MINIMUM TRUSS MEMBER SIZES ARE AS FOLLOWS:
   a. TOP CHORD = 2x6
   b. BOTTOM CHORD = 2x4
   c. WEB MEMBERS = 2x4



ROOF SHEATHING NAILING			
TYPE	EDGE NAIL	FIELD NAIL	NOTE
ROOF	10d AT 6"	10d AT 12"	

NOTE:
ROOF SHEATHING SHALL BE 3/4" TONGUE AND GROOVE APA RATED SHEATHING, EXPOSURE 1, 48/24 SPAN RATING.

1 / S-2.4 ROOF SHEATHING NAILING

NOT TO SCALE

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0' 4'

SCALE IN FEET

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

SUSAN Y. KUNIYOSHI LICENSED PROFESSIONAL ENGINEER No. 9366-S HAWAII, U.S.A.

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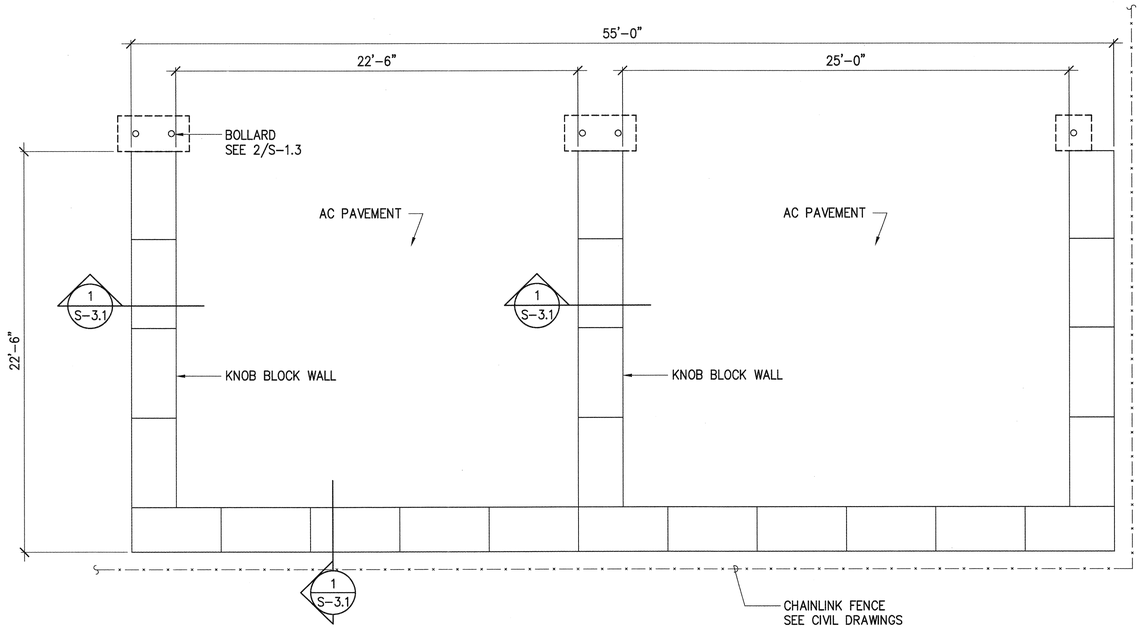
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TRUSS ELEVATIONS AND DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: SK	CHECKED BY: GM	15-14-7509	S-2.4
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 63 OF 80 SHTS.
SCALE: AS NOTED			

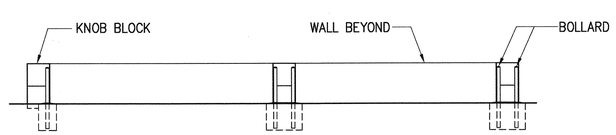
FILE_____DRAWER_____FOLDER_____



NORTH

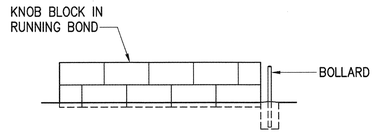
SOIL STORAGE PLAN

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



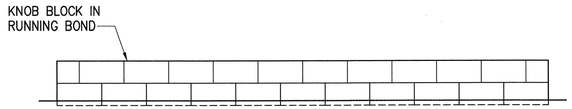
SOIL STORAGE NORTH ELEVATION

SCALE: 1/8"=1'-0"



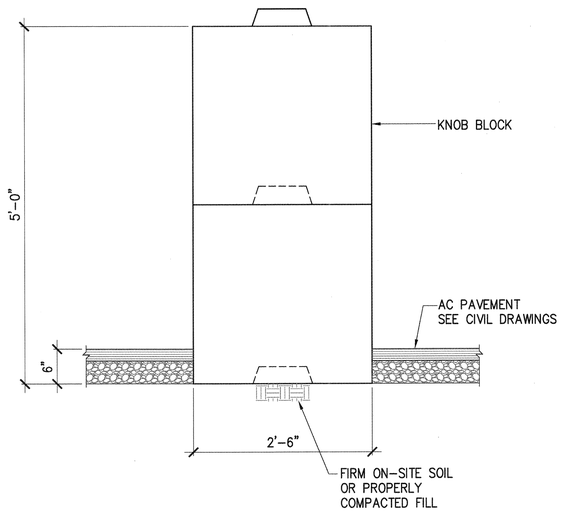
SOIL STORAGE EAST ELEVATION

SCALE: 1/8"=1'-0"



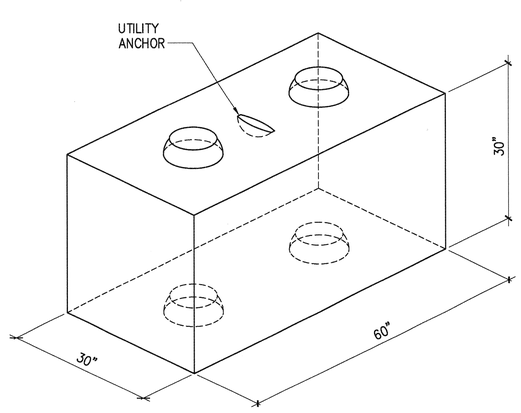
SOIL STORAGE SOUTH ELEVATION

SCALE: 1/8"=1'-0"

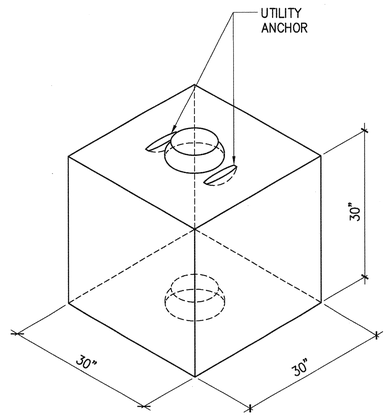


1 / S-3.1 SECTION

SCALE: 1" = 1'-0"



KNOB BLOCK FULL



KNOB BLOCK HALF

GRAPHIC SCALE

1/8"=1'-0" 8' 4' 0' 8' SCALE IN FEET

1/4"=1'-0" 4' 2' 0' 4' SCALE IN FEET

1"=1'-0" 1' 0 1' 2' SCALE IN FEET

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

SUSAN Y. KUNIYOSHI
LICENSED PROFESSIONAL ENGINEER
No. 9366-S
HAWAII, U.S.A.

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APRIL 30, 2016

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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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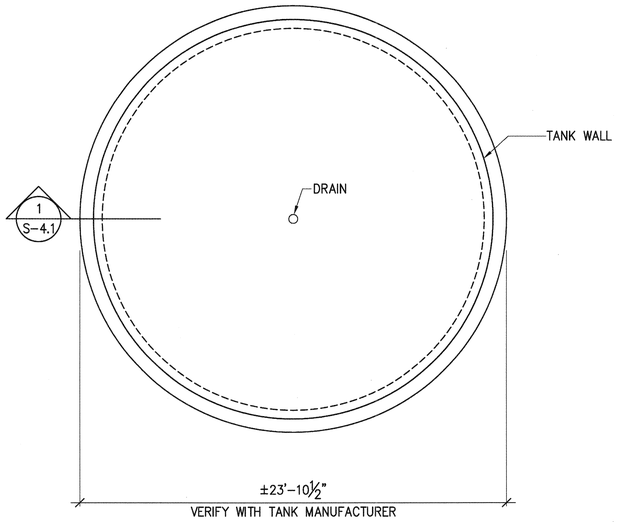
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

SOIL STORAGE PLAN, ELEVATIONS, AND SECTIONS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. S-3.1
DESIGNED BY: SK	CHECKED BY: GM		
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 64 OF 80 SHTS.
SCALE: AS NOTED			

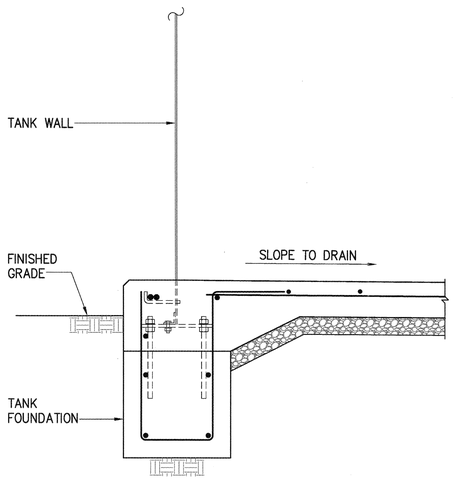
FILE_____ DRAWER_____ FOLDER_____



NORTH

WATER TANK FOUNDATION PLAN

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



1 / S-4.1 SECTION

SCALE: 1" = 1'-0"

NOTES:

1. TANK FOUNDATION TO BE DETERMINED BY TANK MANUFACTURER
2. FOR BALANCE OF INFORMATION SEE MECHANICAL DRAWINGS

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0' 4' SCALE IN FEET

1"=1'-0" 1' 0 1' 2' SCALE IN FEET

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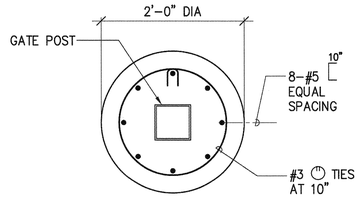
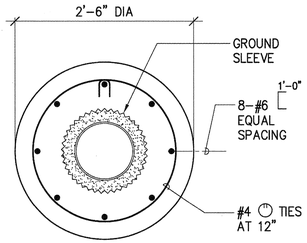
WATER TANK PLAN AND SECTION

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: SK	CHECKED BY: GM	15-14-7509	S-4.1
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 65 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



A SECTION



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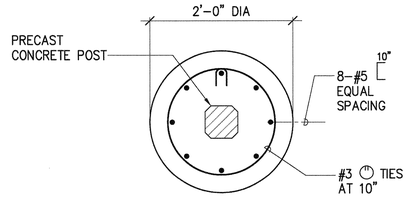
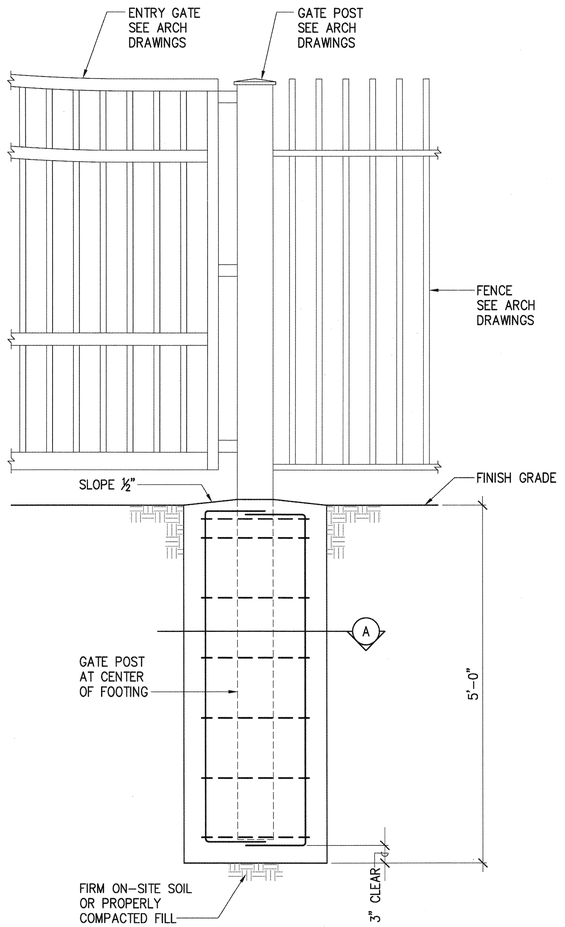
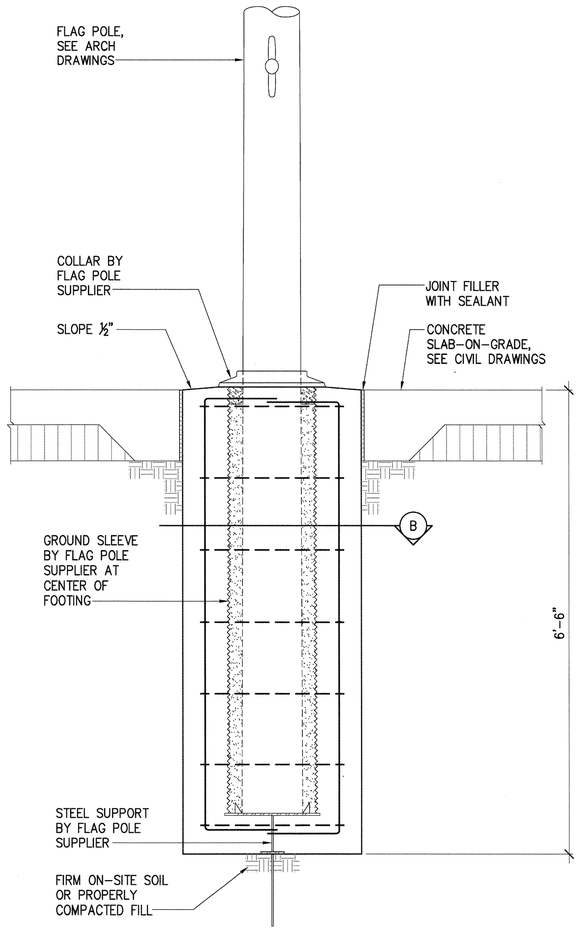


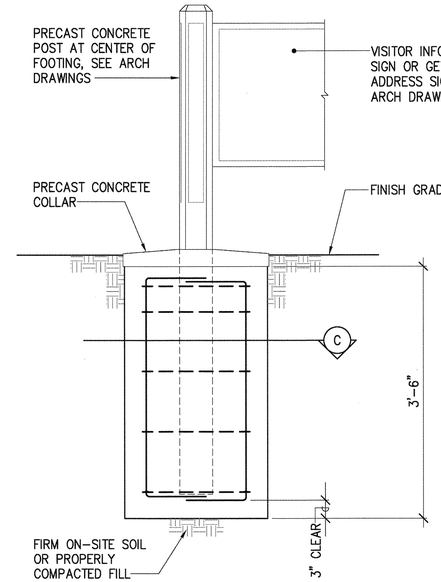
C SECTION



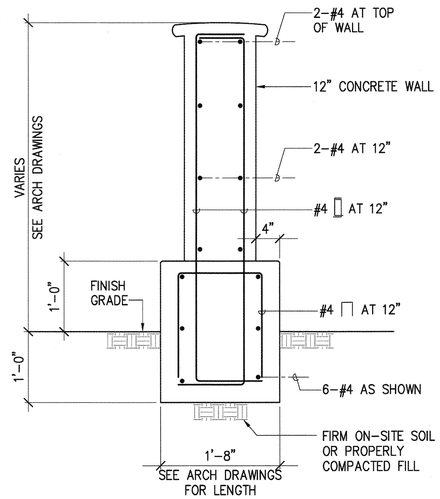
1 S-5.1 ENTRY GATE FOOTING
SCALE: 1" = 1'-0"



2 S-5.1 FLAG POLE FOOTING
SCALE: 1" = 1'-0"



3 S-5.1 SIGN FOOTING
SCALE: 1" = 1'-0"



4 S-5.1 ENTRY SIGN
SCALE: 1" = 1'-0"

GRAPHIC SCALE
1"=1'-0"
1' 0 1' 2'
SCALE IN FEET

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MAUI VETERANS CEMETERY
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DETAILS

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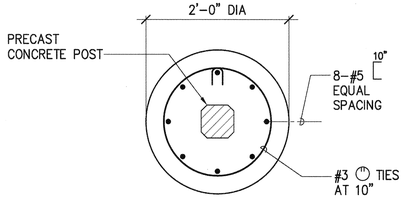
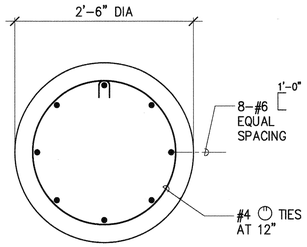
DESIGNED BY: SK	CHECKED BY: GM		
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 66 OF 80 SHTS.
SCALE: AS NOTED			

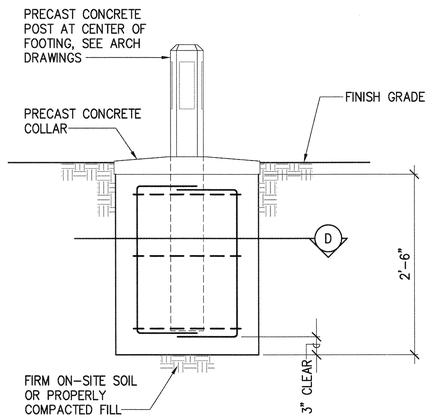
FILE_____DRAWER_____FOLDER_____



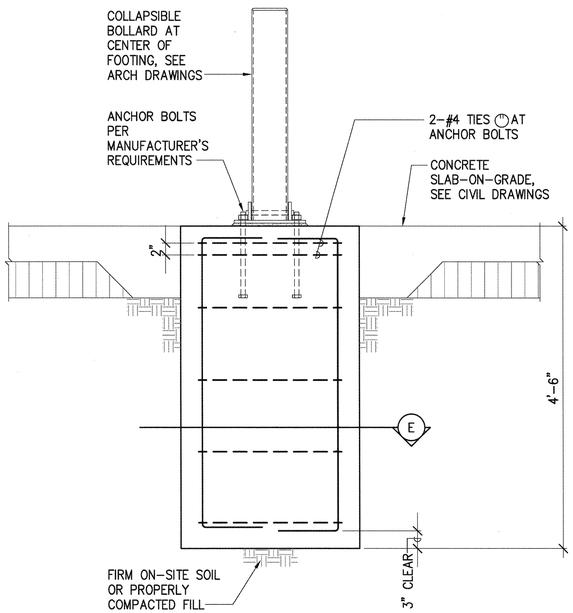
D SECTION



E SECTION



1 S-5.2 SECTION MARKER FOOTING
SCALE: 1" = 1'-0"



2 S-5.2 COLLAPSIBLE BOLLARD FOOTING
SCALE: 1" = 1'-0"

GRAPHIC SCALE
1"=1'-0"
1' 0 1' 2'
SCALE IN FEET

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MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

DETAILS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: SK	CHECKED BY: GM	15-14-7509	S-5.2
DRAWN BY: DL	APPROVED BY: GM	DATE: OCTOBER 2014	SHEET 67 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

PLUMBING FIXTURE SCHEDULE

EMERGENCE EYE WASH

WALL MOUNTED, STAINLESS STEEL CONSTRUCTION, 1/2" STAINLESS STEEL STAY-OPEN BALL VALVE, (2) SPRAY HEADS WITH DUST COVER, INTERNAL FLOW CONTROL, FILTER, 11 1/2" STAINLESS STEEL BOWL, HEAVY DUTY STAINLESS STEEL WALL BRACKET, 1 1/4" OUTLET, STAINLESS STEEL BOWL COVER.

HOSE BIBB

WALL MOUNTED, 2 1/4" TEE HANDLE, VACUUM BREAKER, ROUGH CHROME PLATED SOLID BRASS CONSTRUCTION, DRAIN PLUG

BOOSTER PUMP SCHEDULE

SKID MOUNTED DUPLEX PACKAGED BOOSTER PUMP, 200 GPM, 100 PSI, (2) 7 1/2 HP PUMPS (460/3/60), TRANSFORMER, CONTROL PANEL, EXHAUST FAN 115V SPEED CONTROLLABLE, FIBERGALSS ENCLOSURE, VALVES AND REQUIRED ACCESSORIES.

WATER TANK SCHEDULE

ABOVE GRAOUND, 30,000 GALLON, SEE 1/P-4 AND SPECIFICATIONS.
PROVIDE TANK LEVEL INDICATOR, STAINLEES STEEL DIRECT READ SYSTEM

GENERAL NOTES

1. THE PIPING SYSTEM SHALL BE LAID OUT TO INSURE A NEAT, SYSTEMATIC AND ORDERLY ARRANGEMENT.
2. ALL MATERIALS SHALL BE NEW, FREE FROM ALL DEFECTS AND SHALL BE OF THE MAKE AND TYPES SPECIFIED OR APPROVED EQUAL.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES AND FIELD CONDITIONS AFFECTED BY THIS INSTALLATION. SHOULD CONFLICTS OCCUR, THE CONTRACTING OFFICER SHALL BE NOTIFIED IMMEDIATELY.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY BRING THE DISCREPANCY TO THE ATTENTION OF THE CONTRACTING OFFICER FOR A DECISION BEFORE PROCEEDING WITH THE PARTICULAR WORK INVOLVED. WORK CARRIED OUT DISREGARDING THESE INSTRUCTIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTOR.
5. NO ASBESTOS OR LEAD CONTAINING MATERIALS SHALL BE USED IN THIS PROJECT.
6. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL A COMPLETE AND FULLY FUNCTIONAL MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS.
7. ALL WORK SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH LOCAL CODES, HEALTH DEPARTMENT REQUIREMENTS AND CONFORM TO NATIONAL STANDARDS AS APPROVED BY LOCAL STATE HEALTH AND FIRE DEPARTMENTS.
8. PLUMBING DRAWINGS IN PART ARE DIAGRAMMATIC. VERIFY DIMENSIONS AND CONDITIONS AT SITE BEFORE COMMENCING WITH THE REQUIRED WORK. INSTALL EQUIPMENT AND SYSTEM TO ALLOW SERVICE, MAINTENANCE AND REPAIR WORK.
9. ALL WORK SHALL BE GUARANTEED PARTS AND LABOR FOR ONE FULL YEAR COMMENCING DATE OF ACCEPTANCE IN WRITING.
10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS INSPECTIONS AND FEES REQUIRED.

LEGEND AND ABBREVIATIONS

SYMBOL	DESCRIPTION
——— - - ———	COLD WATER PIPING
———o	PIPE UP
———⊃	PIPE DOWN
⊂+	HOSE BIBB

ABBREVIATION	DESCRIPTION
CW	COLD WATER
CONT	CONTINUOUS
DWGS	DRAWINGS
EEW	EMERGENCY EYE WASH
FIN GRD	FINISHED GRADE
HB	HOSE BIBB

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

KEITH M. CHAN
LICENSED PROFESSIONAL ENGINEER
No. 5784-M
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

NOTES, SCHEDULES LEGEND AND ABBREVIATIONS

NOTKIN HAWAII INC.		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: ST	CHECKED BY: KC	15-14-7509	P-1
DRAWN BY: ST	APPROVED BY: KC	DATE: OCTOBER 2014	SHEET 68 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____

1 / P-2 PLUMBING SITE PLAN
SCALE: 1" = 60'-0"

N

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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LICENSED PROFESSIONAL ENGINEER
No. 5784-M
HAWAII U.S.A.

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EXPIRATION DATE OF THE LICENSE

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STATE OF HAWAII
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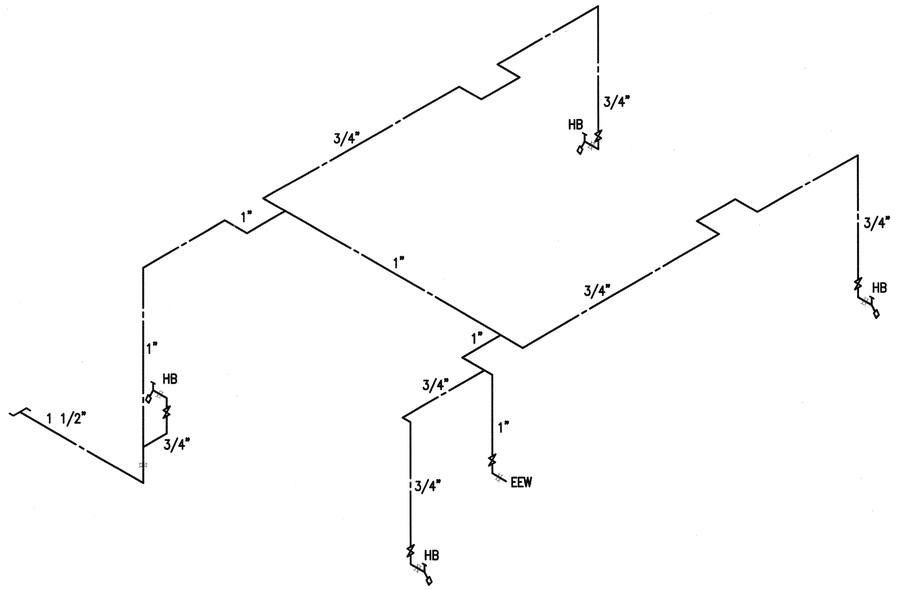
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

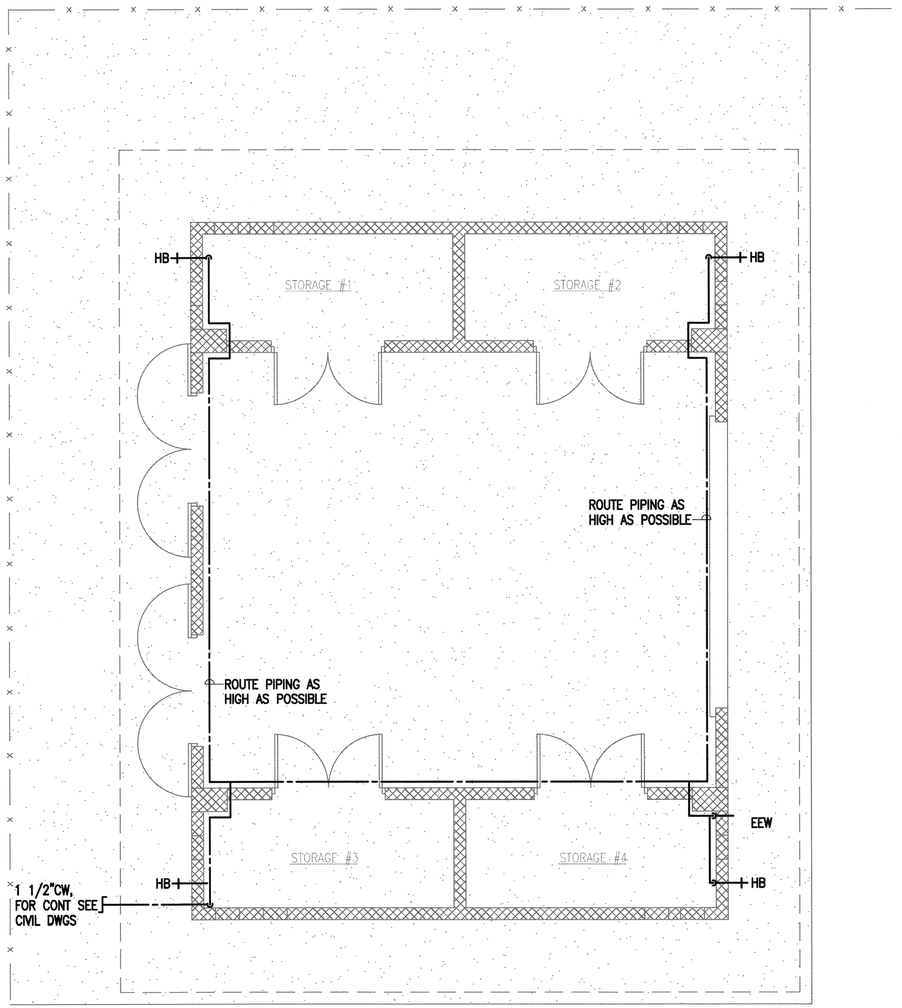
PLUMBING SITE PLAN

NOTKIN HAWAII INC.		DAGS JOB NO. 15-14-7509	DRAWING NO. P-2
DESIGNED BY: ST	CHECKED BY: KC		
DRAWN BY: ST	APPROVED BY: KC	DATE: OCTOBER 2014	SHEET 69 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____



1 P-3 WATER PIPING DIAGRAM
SCALE: NONE



1 P-3 MAINTENANCE BUILDING PLUMBING PLAN
SCALE: 1/4" = 1'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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HAWAII U.S.A.

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APRIL 30, 2016
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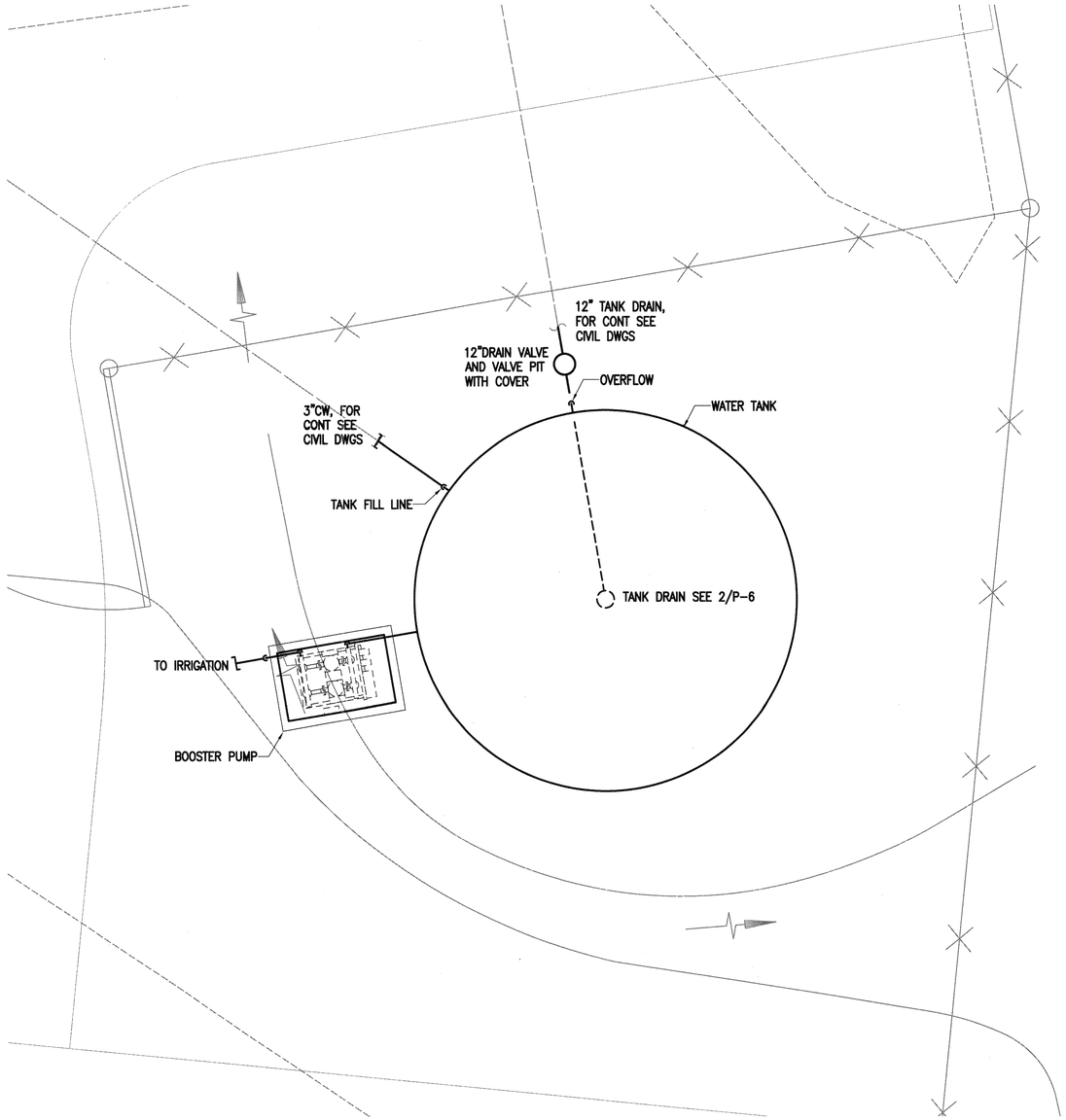
PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

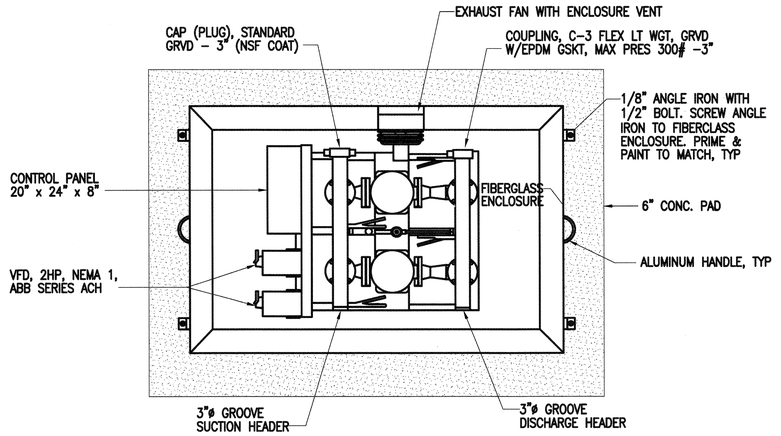
MAINTENANCE BUILDING PLUMBING PLAN AND WATER PIPING DIAGRAM

NOTKIN HAWAII INC.		DAGS JOB NO. 15-14-7509	DRAWING NO. P-3
DESIGNED BY: ST	CHECKED BY: KC		
DRAWN BY: ST	APPROVED BY: KC	DATE: OCTOBER 2014	SHEET 70 OF 80 SHTS.
SCALE: AS NOTED			

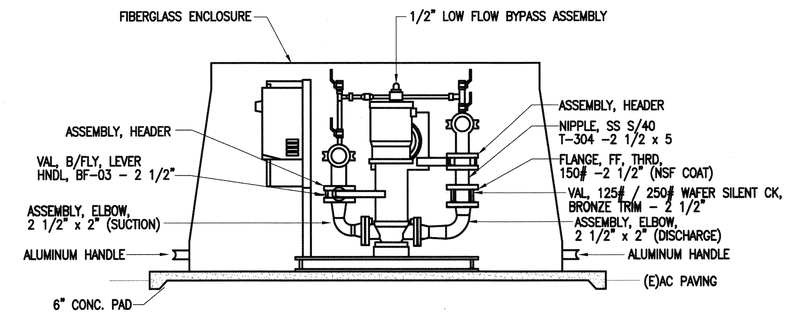
FILE_____ DRAWER_____ FOLDER_____



1 / P-4 WATER TANK PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 / P-4 PUMP PLAN
SCALE: NONE



NOTE: PROVIDE WATER PROOF RUBBER GASKET AROUND BASE OF FIBERGLASS ENCLOSURE

3 / P-4 SECTION THRU PUMP
SCALE: NONE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF.__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

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LICENSED PROFESSIONAL ENGINEER
No. 5784-M
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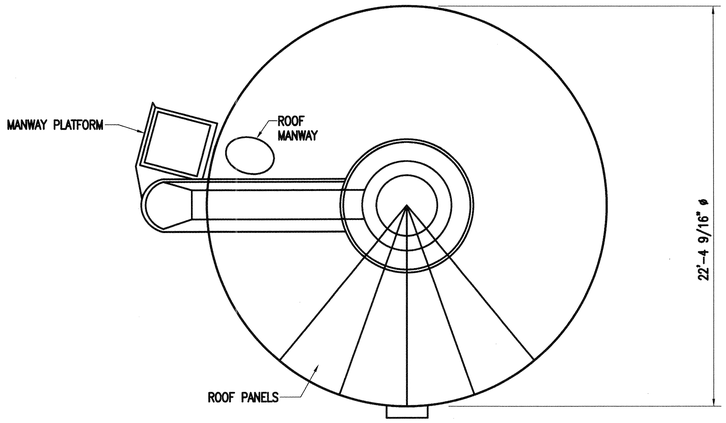
MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

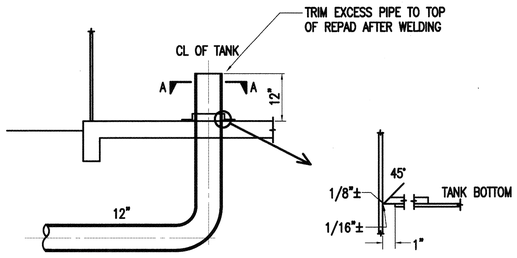
WATER TANK PLAN

NOTKIN HAWAII INC.		DAGS JOB NO. 15-14-7509	DRAWING NO. P-4
DESIGNED BY: ST	CHECKED BY: KC		
DRAWN BY: ST	APPROVED BY: KC	DATE: OCTOBER 2014	SHEET 71 OF 80 SHTS.
SCALE: AS NOTED			

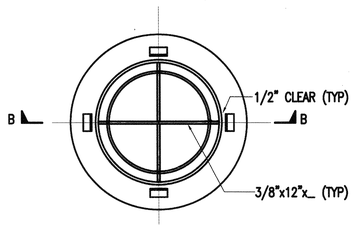
FILE_____ DRAWER_____ FOLDER_____



PLAN

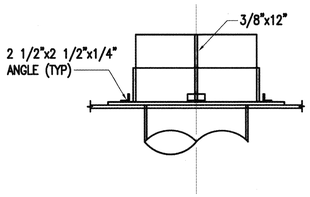


SUCTION WITH ANTI-VORTEX

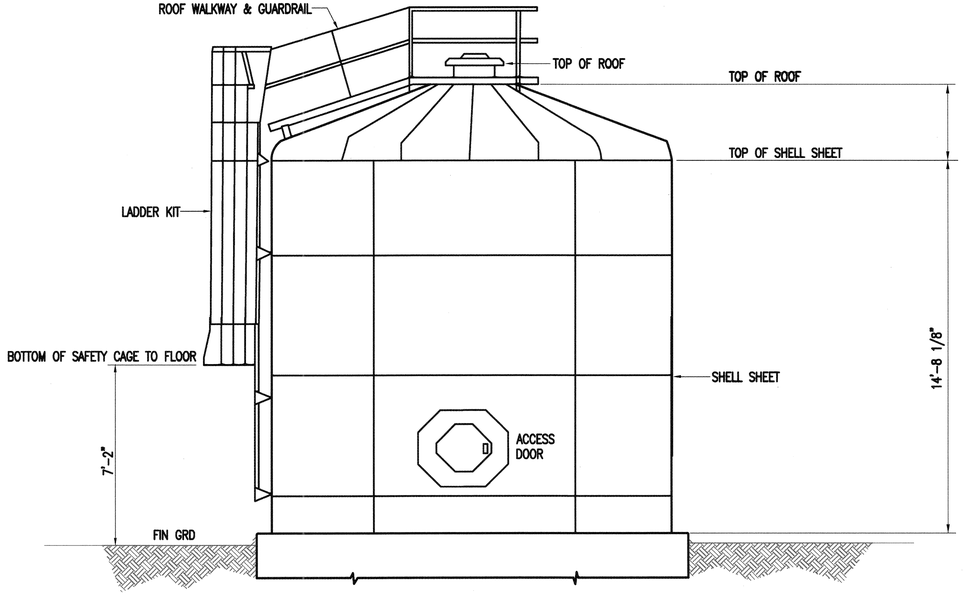


SECTION A-A

NOTE:
INTERIOR OF SUCTION TO BE SURFACED PREPARED AND COATED WITH SAME MATERIAL AS THE TANK INTERIOR. EXTERIOR COATED WITH 16 MILS COAL TAR EPOXY.



SECTION B-B



ELEVATION

1 P-5 TANK DETAILS
SCALE: NONE

2 P-5 TANK DRAIN DETAIL
SCALE: NONE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

KEITH M. CHAN
LICENSED PROFESSIONAL ENGINEER
No. 5784-M
HAWAII U.S.A.

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APRIL 30, 2016
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DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

TANK DETAILS

NOTKIN HAWAII INC.		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: ST	CHECKED BY: KC	15-14-7509	P-5
DRAWN BY: ST	APPROVED BY: KC	DATE: OCTOBER 2014	SHEET 72 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____ DRAWER_____ FOLDER_____

COUNTY OF MAUI
MAUI COUNTY CODE, CHAPTER 16.16A ENERGY CODE

To the best of my knowledge, this project's design substantially conforms to the Energy Code for:

_____ Building Component systems
__X__ Electrical Component Systems
_____ Mechanical Component Systems

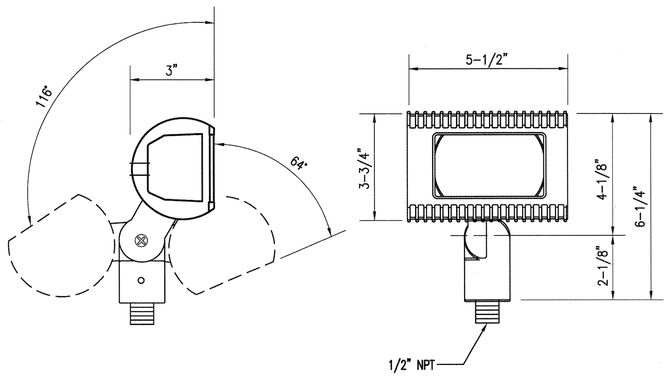
Signature: Jason Yogi Date: AUGUST 2014
Name: Jason Yogi
Title: Electrical Engineer
License No.: 9062–E

BUILDING ENERGY EFFICIENCY STANDARDS

EXTERIOR LIGHTING POWER ALLOWANCE	700W	INSTALLED	108W
INTERIOR LIGHTING POWER ALLOWANCE	1,680W	INSTALLED	1,120W

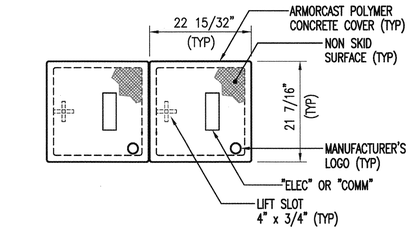
METHOD USED: (CHECK ONE) PRESCRIPTIVE X SYSTEM PERFORMANCE _____

CALCULATIONS: (CHECK ONE) SEPARATE _____ ON DRAWINGS X

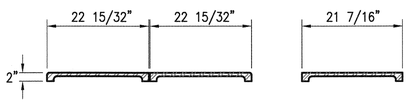


KIM LIGHTING EL218F5–8L4K–UNV–GR–WITH BARN DOORS (BD215)– STANCHION MOUNT (GR) SM18 OR PRE–APPROVED EQUAL

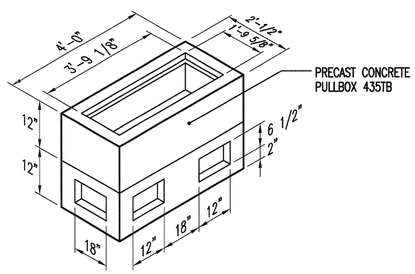
LUMINAIRE TYPE 'C' - 16W LED (4000°K)



PLAN VIEW

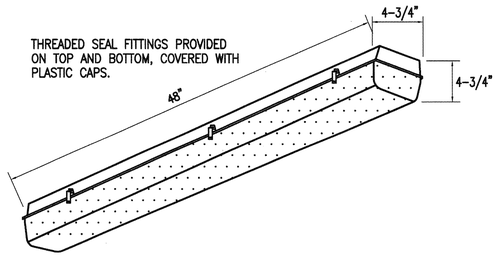


ELEVATION COVER SIDE VIEW



NOTES:
1. INSTALL ON 6" BED OF #3 CRUSHED ROCK.
2. "DUCT SEAL" ALL CONDUIT OPENINGS AFTER INSTALLATION OF WIRING.

1/E-1 2'x4' HANDHOLE DETAIL
SCALE: 1" = 60'–0"



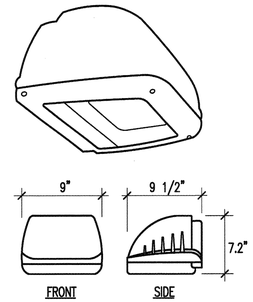
HIGH IMPACT, 0.125" CLEAR ACRYLIC ENCLOSURE. ONE PIECE NEOPRENE GASKET. HIGH IMPACT PLASTIC BODY SUITABLE FOR WET LOCATIONS PER NEC. GASKET TO BE 0.125" CONTINUOUS COMPRESSIBLE NEOPRENE. INTERNAL METAL WIRING COMPARTMENT TREATED WITH 5–STAGE ZINC PHOSPHATE AND HOT–BONDED ENAMEL PAINT. REFLECTING SURFACES FINISHED WITH HIGH–REFLECTANCE WHITE ENAMEL. ELECTRONIC BALLAST.

FIXTURE SHALL BE SUITABLE FOR WET LOCATIONS.

ELECTRONIC BALLAST, PROGRAM START, UNIVERSAL VOLTAGE WITH LESS THAN 10% THD

MANUFACTURER: COLUMBIA LUN SERIES, LIGHTOLIER, WILLIAMS OR PRE–APPROVED EQUAL

LUMINAIRE TYPE 'A' - 2/48 2-28W SUPER T8 FLUORESCENT LAMPS



CONSTRUCTION
DIE–CAST ALUMINUM HOUSING AND DOOR. FLAT, TEMPERED, IMPACT–RESISTANT GLASS LENS. DARK BRONZE POWDER PAINT FINISH.

LED
NEW 12 LED SYSTEM DELIVERS 820 LUMENS AT 12.8W FOR 64LPW EFFICIENCY.
UNIVERSAL 120–277V, 50/60HZ DRIVER, 0.5 AMP MAX.

INSTALLATION
TWO–POINT LAG MOUNT HOLDS HOUSING TO SURFACE; MOUNTING TEMPLATE IS PROVIDED. DESIGNED FOR MOUNTING OVER STANDARD RECESSED JUNCTION BOXES OR FOR WIRING WITH SURFACE CONDUIT; 1/2" HUBS WITH PLUGS PROVIDED ON TOP AND SIDES FOR ACCESS.

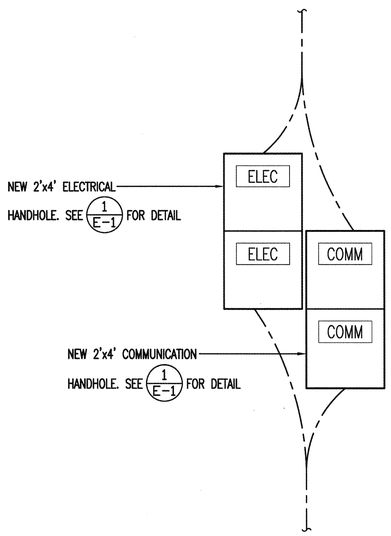
LISTINGS
LISTED TO UL 1598 FOR USE IN WET LOCATIONS.
IDA DARK SKY COMPLIANT.

LUMINAIRE TYPE 'B' - LED (4000°k)

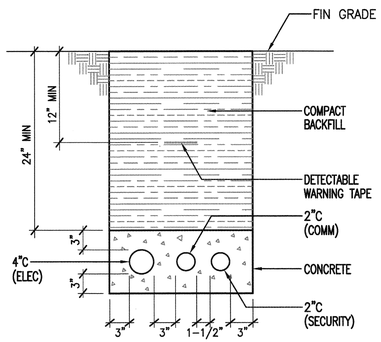
ELECTRICAL SYMBOLS

	WALL LUMINAIRE
	FLOOD LIGHT LUMINAIRE
	CEILING FLUORESCENT LUMINAIRE
S	SWITCH, 1P20A, +4'–0"
S_3	SWITCH, 3W20A, +4'–0"
S_4	SWITCH, 4W20A, +4'–0"
	OCCUPANCY SENSOR, DUAL TECHNOLOGY TYPE, +4'–0"
	DUPLEX CONVENIENCE OUTLET, 3W20A, GROUNDING TYPE, +18" UNLESS OTHERWISE NOTED
	DUPLEX CONVENIENCE OUTLET, 3W20A, GROUND FAULT INTERRUPTER TYPE, +18" UNLESS OTHERWISE NOTED
T	TRANSFORMER
	PANELBOARD
E	EQUIPMENT CONNECTION
M	MOTOR OUTLET
	MOTOR CONTROLLER
	SAFETY SWITCH
WP	WEATHERPROOF
NL	NIGHT LIGHT
A–2/28W	LUMINAIRE DESIGNATION, TYPE "A–2/28W" INDICATED
—OH/E—	OVERHEAD ELECTRICAL LINES
—EOH/T—	EXISTING OVERHEAD TELEPHONE LINES
- - - - - -	WIRING IN EXPOSED RACEWAY
— - - —	WIRING IN RACEWAY CONCEALED IN FLOOR OR BELOW GRADE
———	WIRING IN RACEWAY CONCEALED IN WALL OR CEILING
∿∿∿	WIRING IN FLEXIBLE RACEWAY

NOTES:
1. ANY CIRCUIT WITH NO FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. CIRCUITS WITH ADDITIONAL WIRES ARE INDICATED AS FOLLOWS: –//– , 3 WIRES: –///– , 4 WIRES, ETC.
2. GROUND WIRE PER NATIONAL ELECTRICAL CODE INDICATED AS FOLLOWS; —⏚—.
3. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING SURROUNDING.



2/E-1 TYPICAL HANDHOLE GROUP (HHG) DETAIL
NOT TO SCALE



3/E-1 DUCT SECTION
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT.__ OF__	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

JASON YOGI — LICENSED PROFESSIONAL ENGINEER — No. 9062–E — HAWAII, U.S.A.

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APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

TYP HANDHOLE GROUP (HHG) DETAIL, DUCT SECTION, 2'x4' HANDHOLE DET, LUMINAIRE DETAILS, BUILDING ENERGY EFFICIENCY STANDARDS, ELECTRICAL SYMBOLS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15–14–7509	DRAWING NO. E–1
DESIGNED BY: JY	CHECKED BY: OP		
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 73 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "B"
Paul Turner
(Owner)

T.M.K. 2-4-03 : 20
Robert & Myra Carvalho, Trust
(Owner)

TRUE NORTH
SCALE: 1 IN. = 60 FT.

LAND COMMISSION AWARD 11216 APANA 27 TO M. KEKAUONOHI
ROYAL PATENT 7512,

6 FT. HIGH PERIMETER CHAIN LINK FENCE W/ TOP RAIL

TIE-IN TO EXISTING PERIMETER FENCE

PAUL TURNER SUBDIVISION
Proposed Lot "D"
Area = 17.000 Acs.

SEE (1/E-5) FOR PARTIAL ELECTRICAL SITE PLAN

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

SEE (1/E-4) FOR PARTIAL ELECTRICAL SITE PLAN

T.M.K. 2-4-02 : 01
Makawao Cemetery Association
(Owners)

SEE (1/E-3) FOR PARTIAL ELECTRICAL SITE PLAN

T.M.K. 2-4-03 : 19
Gladys Nobue O'Conner
(Owner)

T.M.K. 2-4-03 : 17
Mark and Nancy Townsend
(Owners)

MAKAWAO CEMETERY

BALDWIN AVENUE

To Paia

To Makawao

1,369.86
344.19
208.00
211.99
16.23
117.83
38°29'
706.18
87°00'35"
673.96
479.12
351'31'
171'31'
25°37'30"
1515
1520
1525
1530
24'
15'
87°00'35"
115'11'
149.52'
100°27'
88.32'
137°33'15"
163.92'
76.94'
25°04'30"
69.81'
285.20'
391.19'
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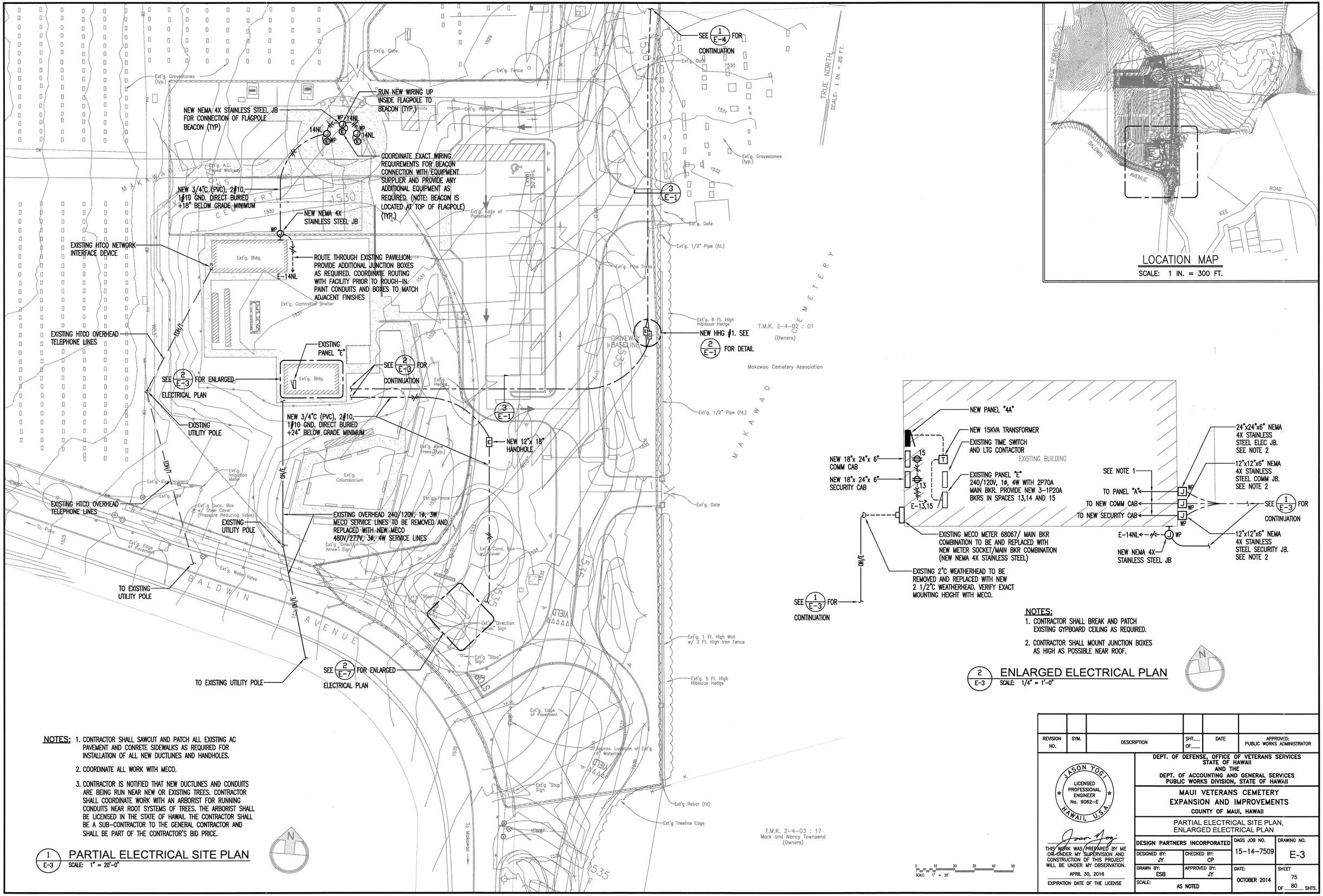
1730



LOCATION MAP
SCALE: 1 IN. = 300 FT.

NOTES:
1. CONTRACTOR SHALL BREAK AND PATCH EXISTING GYPBOARD CEILING AS REQUIRED.
2. CONTRACTOR SHALL MOUNT JUNCTION BOXES AS HIGH AS POSSIBLE NEAR ROOF.

2/E-3 ENLARGED ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

NOTES:
1. CONTRACTOR SHALL SAWCUT AND PATCH ALL EXISTING AC PAVEMENT AND CONRETE SIDEWALKS AS REQUIRED FOR INSTALLATION OF ALL NEW DUCTLINES AND HANDHOLES.
2. COORDINATE ALL WORK WITH MECO.
3. CONTRACTOR IS NOTIFIED THAT NEW DUCTLINES AND CONDUITS ARE BEING RUN NEAR NEW OR EXISTING TREES. CONTRACTOR SHALL COORDINATE WORK WITH AN ARBORIST FOR RUNNING CONDUITS NEAR ROOT SYSTEMS OF TREES. THE ARBORIST SHALL BE LICENSED IN THE STATE OF HAWAII. THE CONTRACTOR SHALL BE A SUB-CONTRACTOR TO THE GENERAL CONTRACTOR AND SHALL BE PART OF THE CONTRACTOR'S BID PRICE.

1/E-3 PARTIAL ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT.___ OF___	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR

JASON YOGI
LICENSED PROFESSIONAL ENGINEER
No. 9062-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
APRIL 30, 2016
EXPIRATION DATE OF THE LICENSE

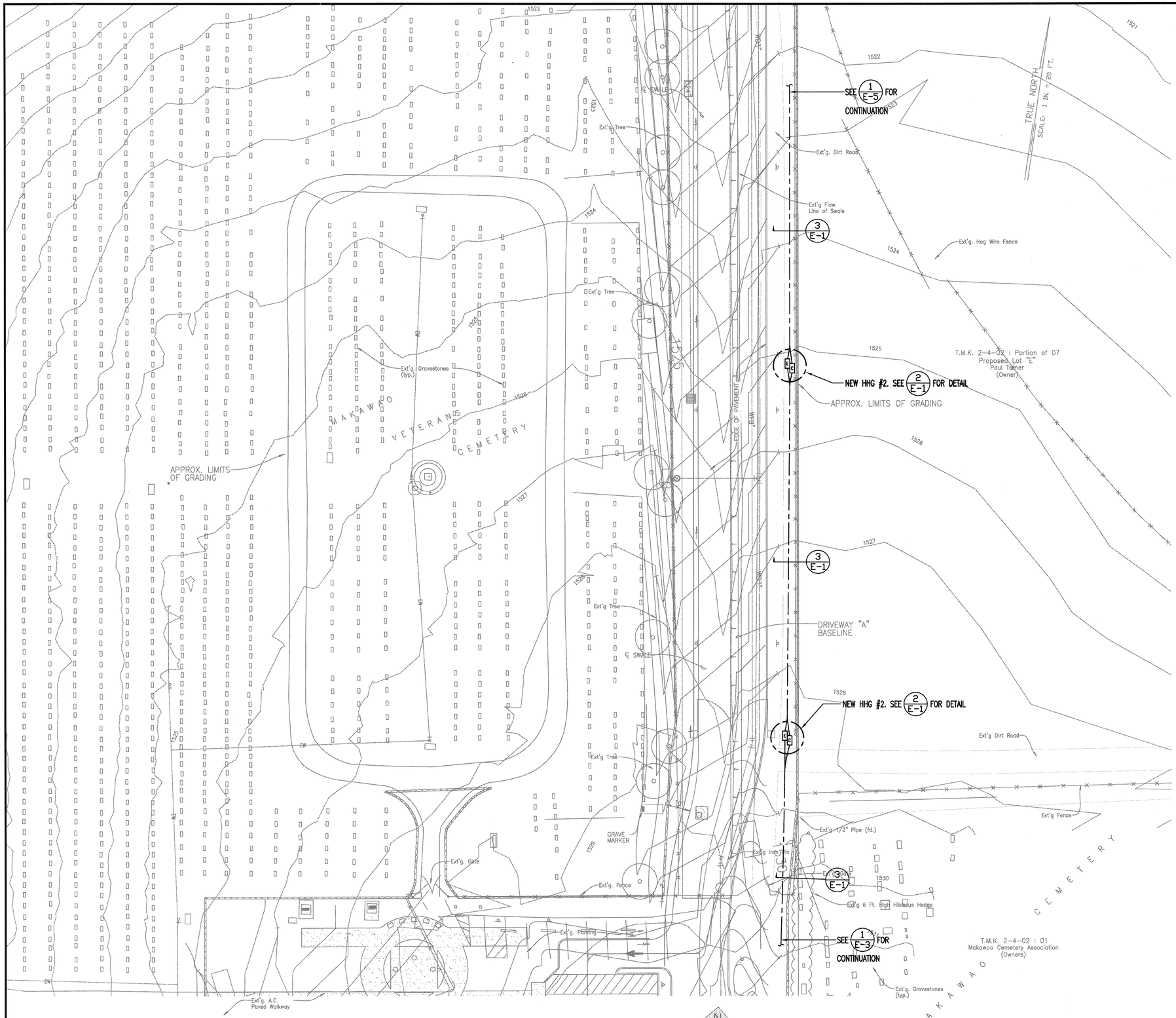
DEPT. OF DEFENSE, OFFICE OF VETERANS SERVICES
STATE OF HAWAII
AND THE
DEPT. OF ACCOUNTING AND GENERAL SERVICES
PUBLIC WORKS DIVISION, STATE OF HAWAII

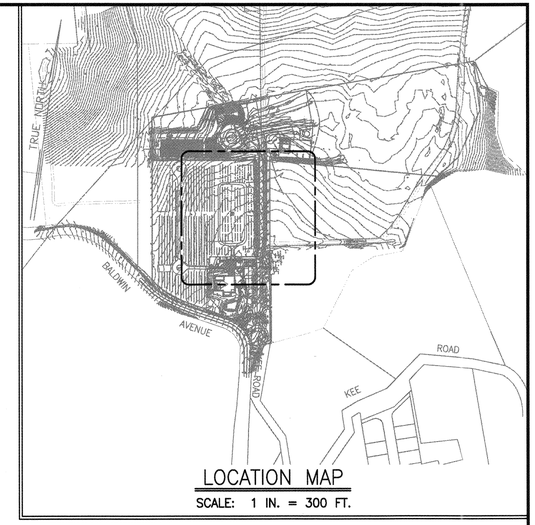
MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

PARTIAL ELECTRICAL SITE PLAN, ENLARGED ELECTRICAL PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. E-3
DESIGNED BY: JY	CHECKED BY: CP		
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 75 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____





1/E-4 PARTIAL ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

SCALE: 1" = 20'

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

PARTIAL ELECTRICAL SITE PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: JY	CHECKED BY: CP	15-14-7509	E-4
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 76 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "D"
Paul Turner
(Owner)

Ext'g. Flow Line of Swale

TRUE NORTH
SCALE: 1 IN. = 20 FT.

DETENTION BASIN
MIN. VOLUME BELOW ELEV. 1513
=6,500 CU.FT.
RIM EL.=1514.00
BOT. EL.=1510.00

Ext'g. Conc. Tank

Ext'g. Conc. Pad

5' WIDE BENCH

BASIN MAINTENANCE ACCESS

SLOPE NOT TO EXCEED 2H:1V

Ext'g. Dirt Road

1509 1510 1511 1512 1513 1514 1515 1516

1517.38 1517.60 1517.80 1518.60 1519.10 1519.30 1519.50 1519.20 1518.30

1520 1521 1522 1523 1524

WD2" WD3" WD4" WD2 1/2" WD1 1/2"

Ø24" Ø18" 12" DRAIN

℄ SWALE

IRRIGATION BOOSTER PUMP ASSEMBLY
(NOTE: COORDINATE WIRING REQUIREMENTS WITH MANUFACTURER AND PROVIDE ALL ADDITIONAL EQUIPMENT AS REQUIRED)

LOCATE NEAR PUMP ASSEMBLY. PROVIDE STAINLESS STEEL UNI-STRUT SUPPORTS AND CONCRETE BASE AS REQUIRED

TANK PAD
EL.=1518.0

F.F.E.=1519.5

DRIVEWAY "B" BASELINE

DRIVEWAY "A" BASELINE

4B-9,11,13

2B-8

+24" BELOW GRADE MIN. WITH A MINIMUM 3" CONCRETE ENCASEMENT

TO PANEL "4B", COMM CABINET AND SECURITY CABINET.
SEE (1/E-7) FOR CONTINUATION

SEE (1/E-6) AND (1/E-7) FOR MAINTENANCE BUILDING LIGHTING PLAN, MAINTENANCE BUILDING POWER AND SIGNAL PLAN, RESPECTIVELY

(3/E-1)

NEW HHG #4. SEE (2/E-1) FOR DETAIL

SEE (1/E-4) FOR CONTINUATION

Ext'g. Hog Wire Fence

Ext'g. Fence

Ext'g. Swale

Ext'g. Gravestones (typ.)

MAKAWAO VETERANS CEMETERY

APPROX. LIMITS OF GRADING

T.M.K. 2-4-02 : Portion of 07
Proposed Lot "E"
Paul Turner
(Owner)

PAUL TURNER SUBDIVISION
Proposed Lot "D"
Area = 17.000 Acs.

APPROX. LIMITS OF GRADING

TRUE NORTH

BALDWIN AVENUE

MAKAWAO ROAD

KEE ROAD

LOCATION MAP
SCALE: 1 IN. = 300 FT.

(1/E-5) PARTIAL ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

SCALE: 1" = 20'

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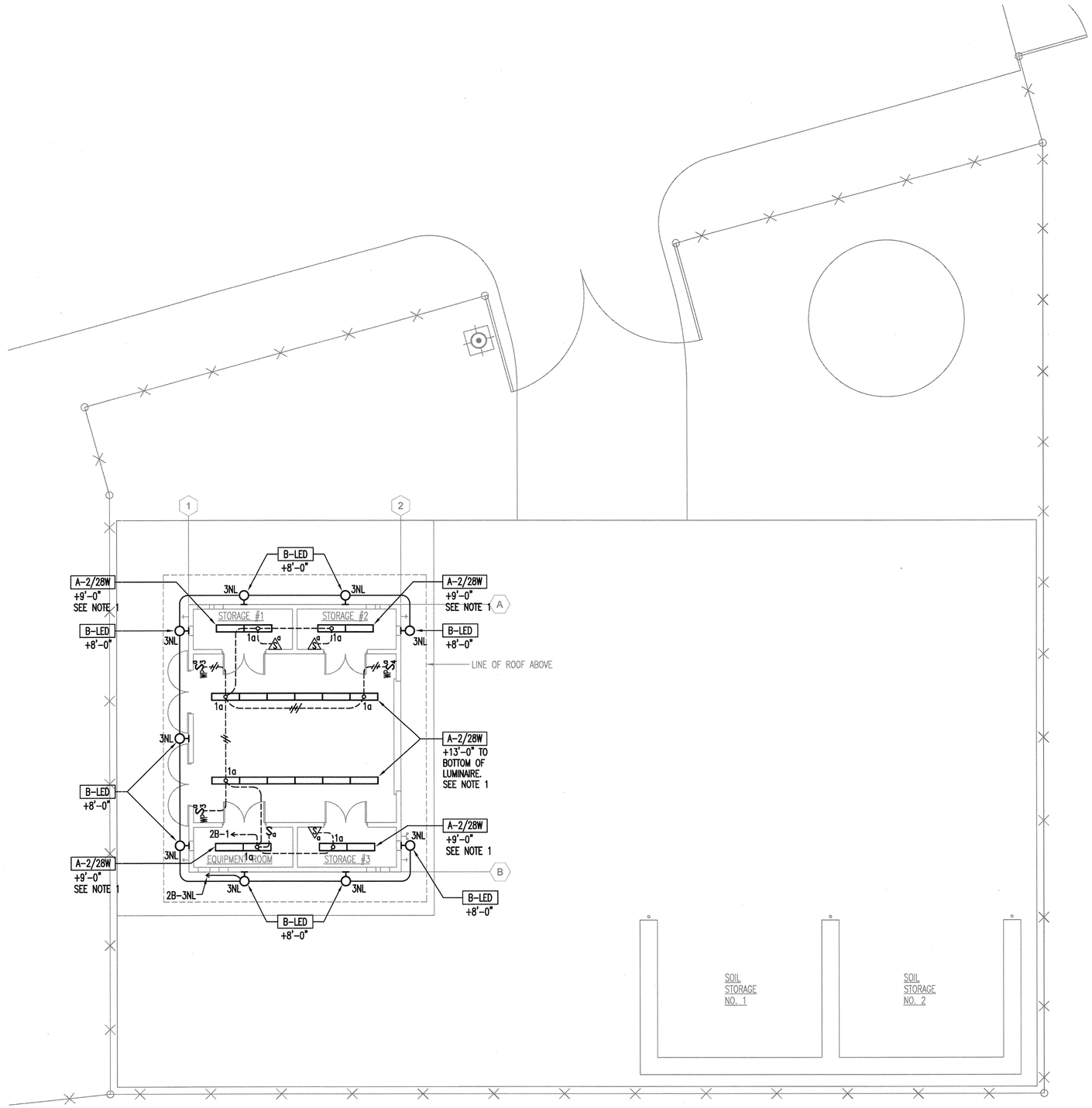
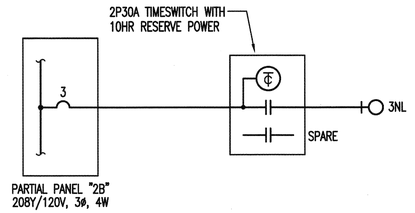
MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

PARTIAL ELECTRICAL SITE PLAN

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. E-5
DESIGNED BY: JY	CHECKED BY: CP		
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 77 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____





2 / E-6 NIGHT LIGHT CONTROL WIRING DIAGRAM

NOTES: 1. PROVIDE STAINLESS STEEL UNISTRUT SUPPORTS FOR STEM MOUNTING OF LUMINAIRES AS REQUIRED.

1 / E-6 MAINTENANCE BUILDING LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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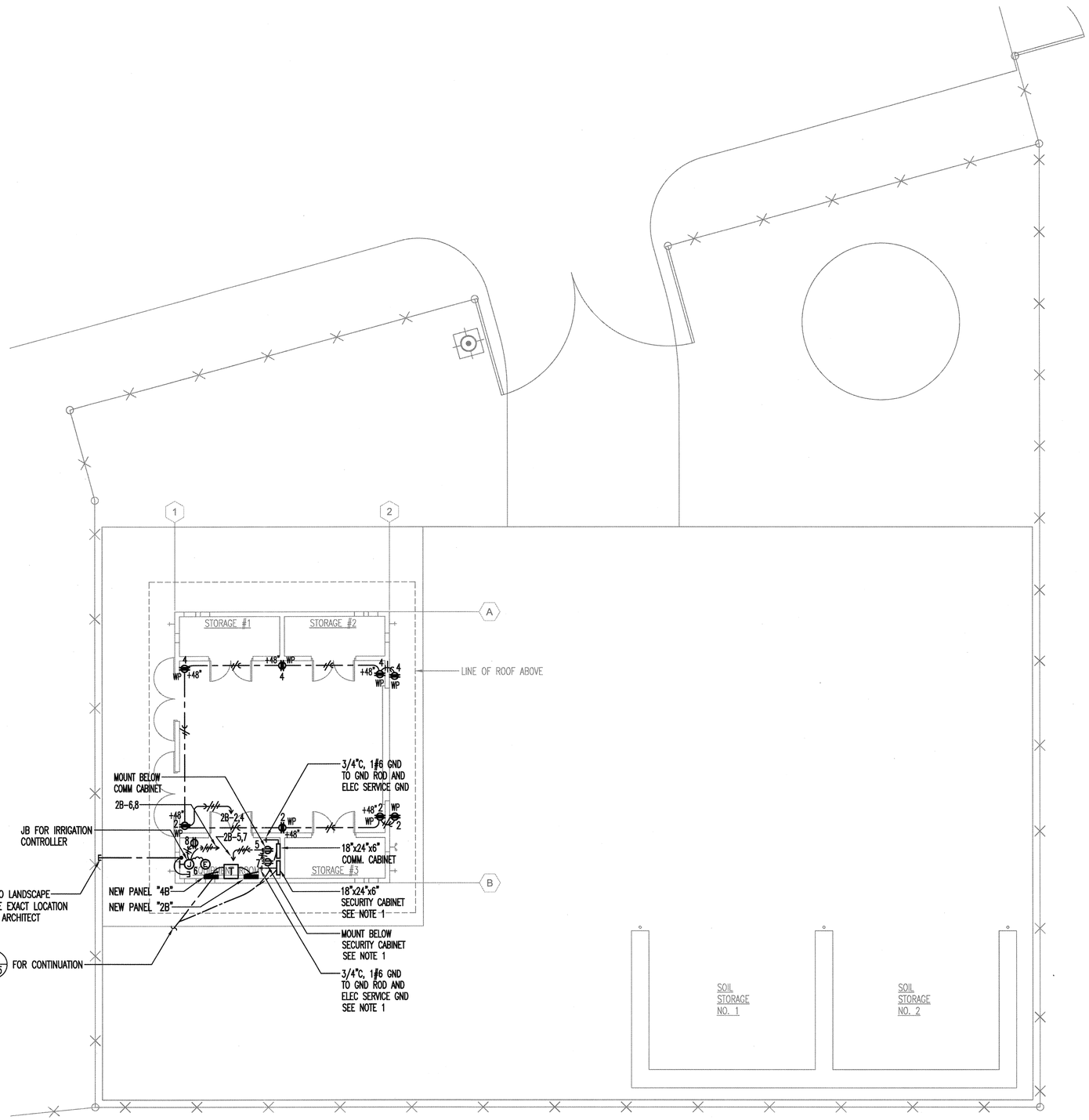
MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS

COUNTY OF MAUI, HAWAII

MAINTENANCE BUILDING LIGHTING PLAN, NIGHT LIGHT CONTROL WIRING DIAGRAM

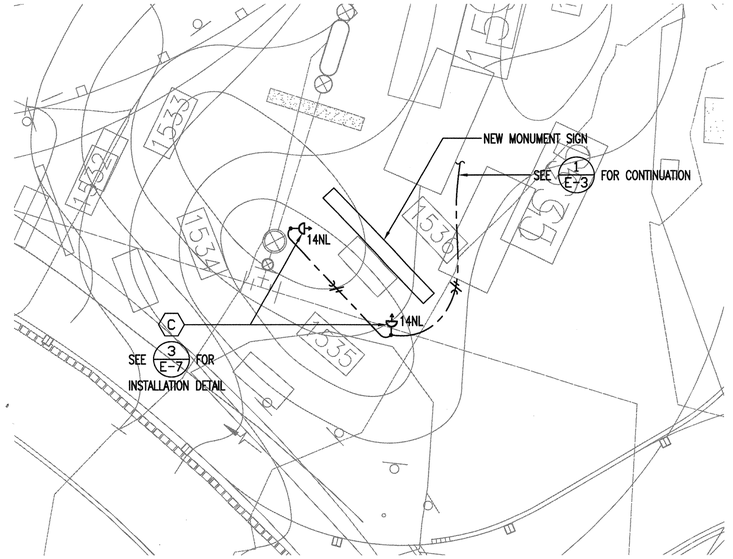
DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: JY	CHECKED BY: CP	15-14-7509	E-6
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 78 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____



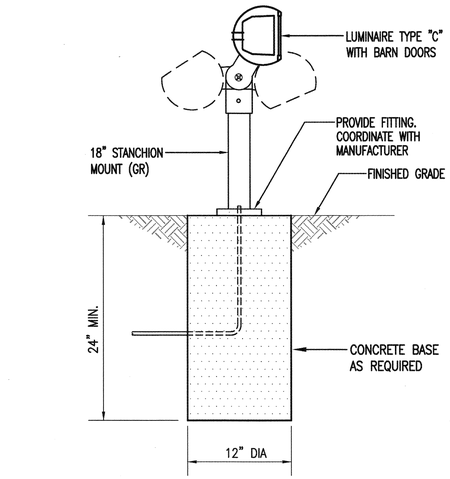
NOTES:
1. PROVIDE 3/4" TH. TREATED BACKGROUND IN CABINET. GROUND BOND GROUND CONDUCTOR TO INSIDE OF CABINET AND LEAVE 3'-0" OF SLACK IN GROUND CONDUCTOR.

1/E-7 MAINTENANCE BUILDING POWER AND SIGNAL PLAN
SCALE: 1/8" = 1'-0"



NOTES:
1. CONTRACTOR SHALL PRECISELY AIM LIGHTING TO HIGHLIGHT MONUMENT SIGN. CONTRACTOR SHALL FIELD ADJUST INSTALLATION AS REQUIRED.

2/E-7 ENLARGED ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



3/E-7 FLOOD LIGHT INSTALLATION DETAIL
NOT TO SCALE

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HAWAII, U.S.A.

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PUBLIC WORKS DIVISION, STATE OF HAWAII

MAUI VETERANS CEMETERY EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

MAINTENANCE BUILDING POWER AND SIGNAL PLAN, ENLARGED ELECTRICAL PLAN, FLOOD LIGHT INSTALLATION DETAIL

DESIGN PARTNERS INCORPORATED		DAGS JOB NO. 15-14-7509	DRAWING NO. E-7
DESIGNED BY: JY	CHECKED BY: CP		
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 79 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____

NEW PANEL "2B" 208Y/120 VOLTS 3ø, 4WSN
3P50A MAIN BKR. BRANCH BKR I.C. 10,000 AMPS
SURFACE, 20" WIDE CABINET, INDUSTRIAL–BOLTED

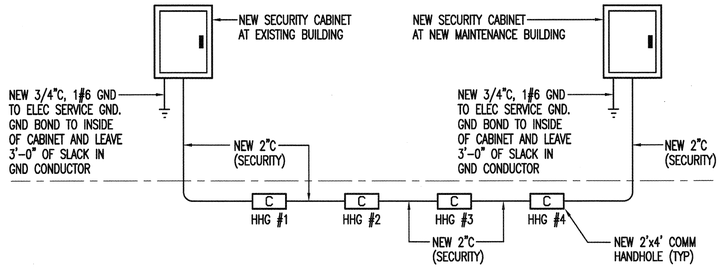
CKT NO.	BKR	LOAD	KVA A	KVA B	KVA C	WIRE
1	1P20A	LIGHTS	1.2			12
2		RECEP	0.6			
3		LIGHTS – NL		0.2		
4		RECEP		0.6		
5		RECEP – COMM CAB			1.0	
6		IRRIGATION CONTROLLER			1.0	
7		RECEP – SECURITY CAB	1.0			
8		RECEP	0.4			
9		SPARE				
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	1P	P F B				
20						
21						
22						
23						
24						
TOTAL			3.2	0.8	2.0	

NEW PANEL "4A" 480Y/277 VOLTS 3ø, 4WSN
3P200A MAIN BKR. BRANCH BKR I.C. 22,000 AMPS
SURFACE, 20" WIDE CABINET, INDUSTRIAL–BOLTED

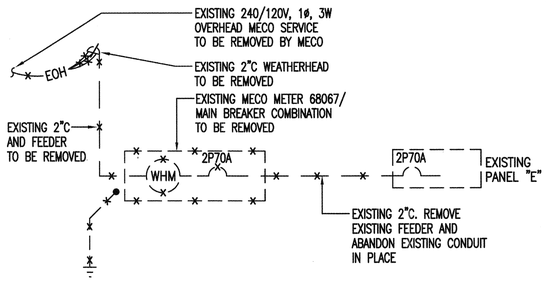
CKT NO.	BKR	LOAD	KVA A	KVA B	KVA C	WIRE
1,3,5	3P70A	PANEL "4B"	14.0	14.0	14.0	#1/0
2,4	2P70A	TRANSFORMER	7.5	7.5		4
6	1P	P F B				
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
TOTAL			21.5	21.5	14.0	

NEW PANEL "4B" 480Y/277 VOLTS 3ø, 4WSN
3P100A MAIN BKR. BRANCH BKR I.C. 22,000 AMPS
SURFACE, 20" WIDE CABINET, INDUSTRIAL–BOLTED

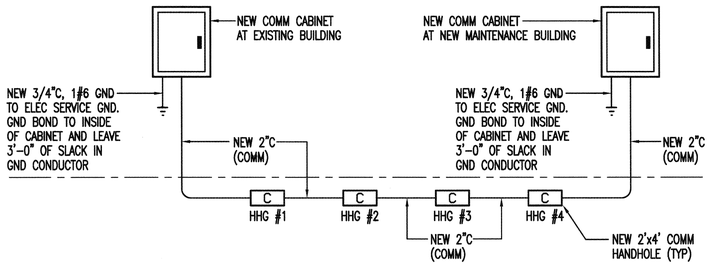
CKT NO.	BKR	LOAD	KVA A	KVA B	KVA C	WIRE
1,3,5	3P50A	IRRIGATION BOOSTER PUMP ASSEMBLY	9.0	9.0	9.0	6
2,4,6	3P30A	TRANSFORMER	5.0	5.0	5.0	10
7	1P	P F B				
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
TOTAL			14.0	14.0	14.0	



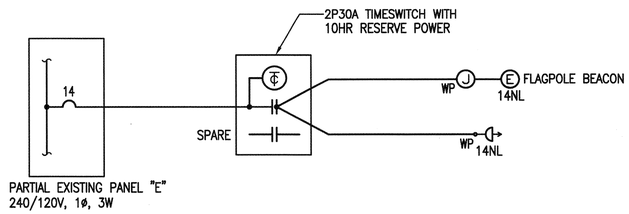
4 / E-8 SECURITY RISER DIAGRAM



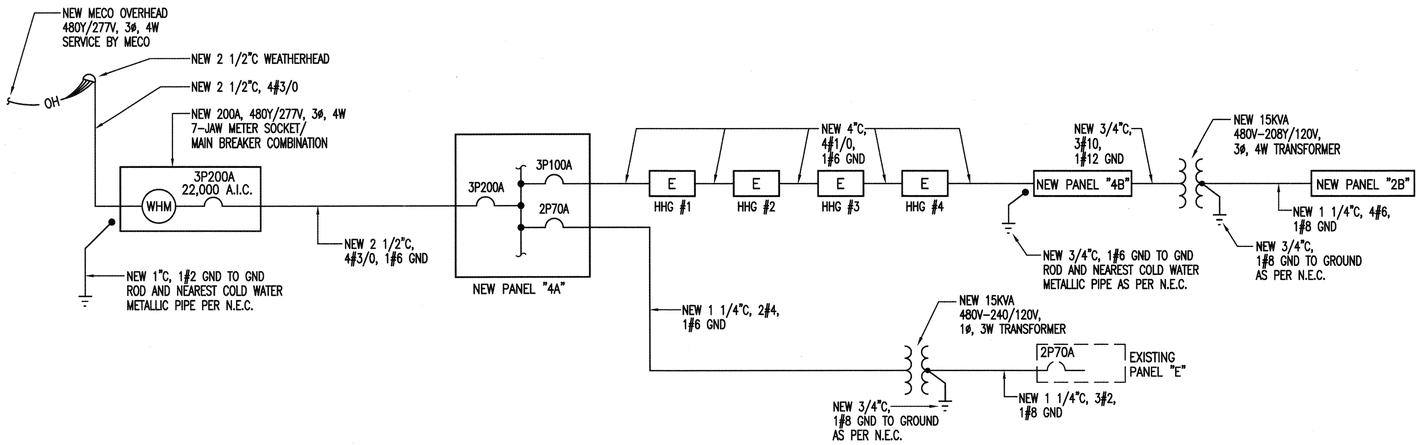
1 / E-8 SINGLE LINE DIAGRAM - DEMOLITION WORK



3 / E-8 COMMUNICATION RISER DIAGRAM



FLAGPOLE BEACON AND MONUMENT SIGN LIGHTING CONTROL WIRING DIAGRAM
5 / E-8



2 / E-8 SINGLE LINE DIAGRAM - NEW WORK

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HAWAII, U.S.A.

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MAUI VETERANS CEMETERY
EXPANSION AND IMPROVEMENTS
COUNTY OF MAUI, HAWAII

PANEL SCHEDULES, MISCELLANEOUS DIAGRAMS

DESIGN PARTNERS INCORPORATED		DAGS JOB NO.	DRAWING NO.
DESIGNED BY: JY	CHECKED BY: CP	15–14–7509	E-8
DRAWN BY: ESB	APPROVED BY: JY	DATE: OCTOBER 2014	SHEET 80 OF 80 SHTS.
SCALE: AS NOTED			

FILE_____DRAWER_____FOLDER_____