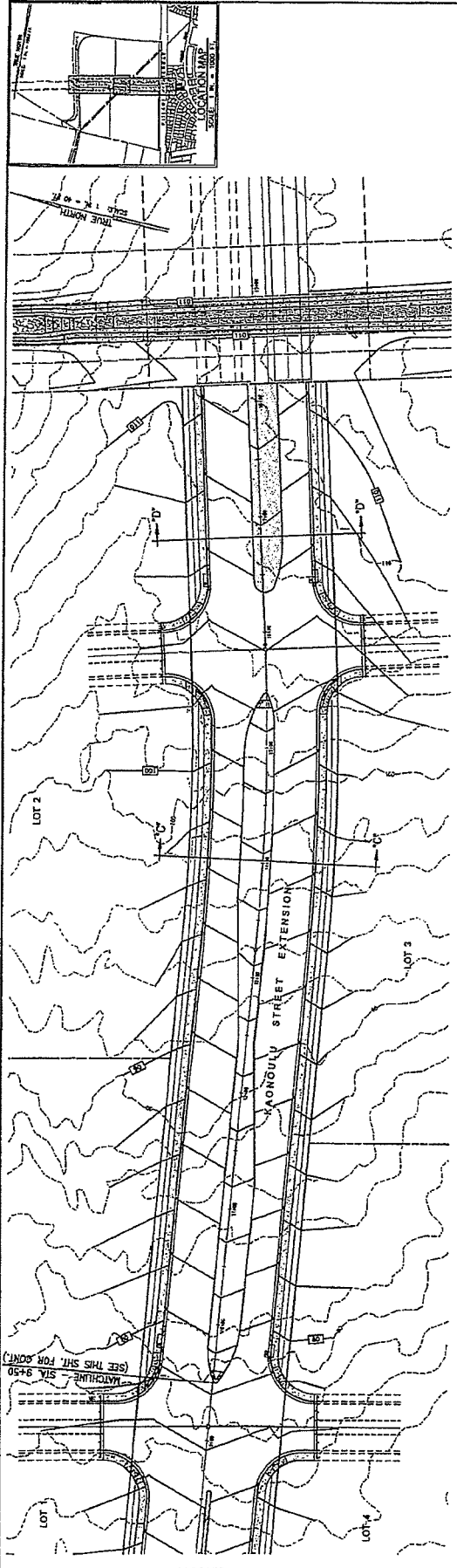




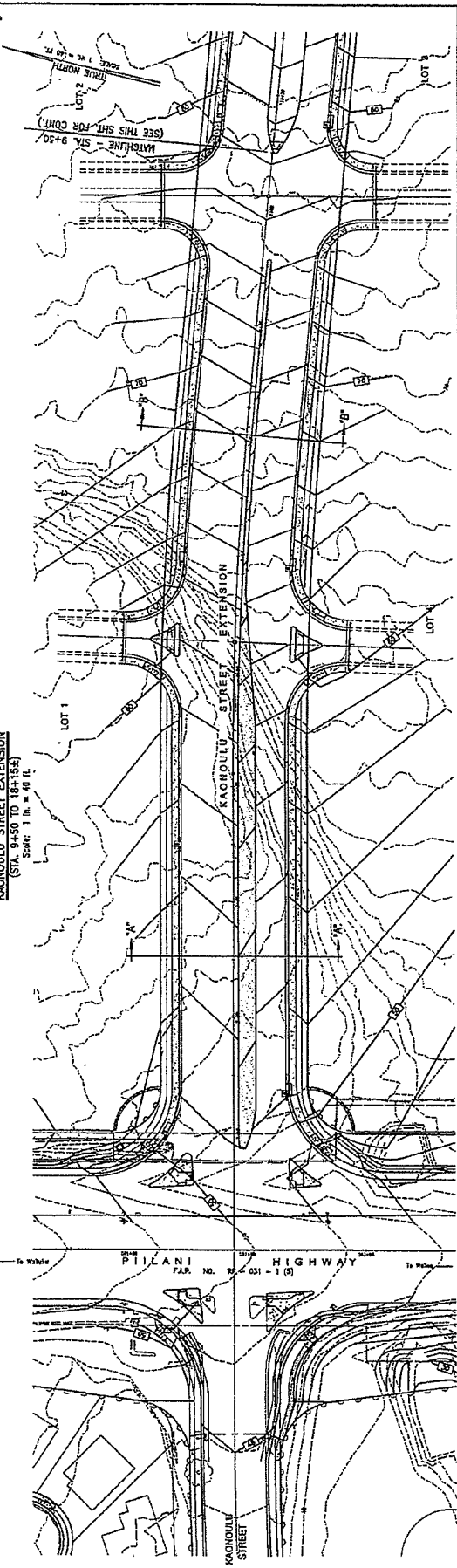








**KAONO'ULU STREET EXTENSION**  
(STA. 9+50 TO 18+154.3)  
Scale: 1 in. = 40 ft.



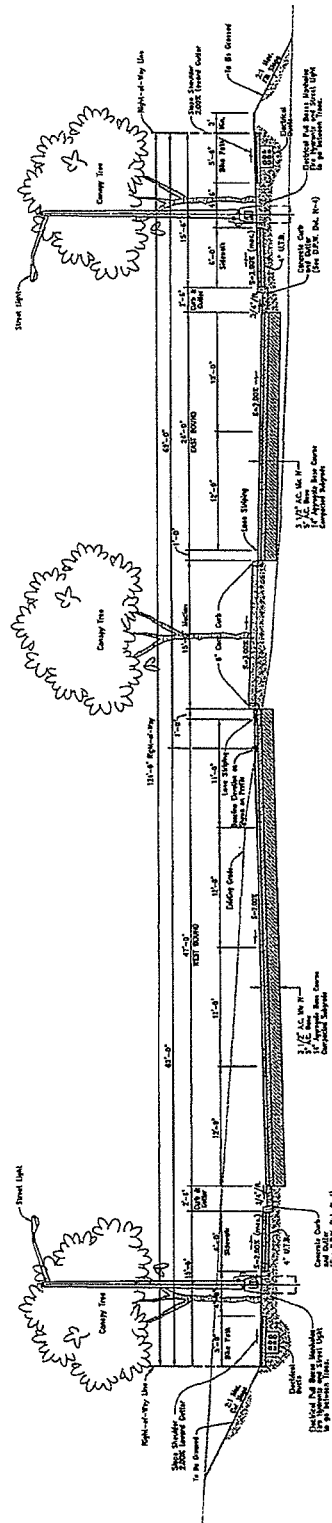
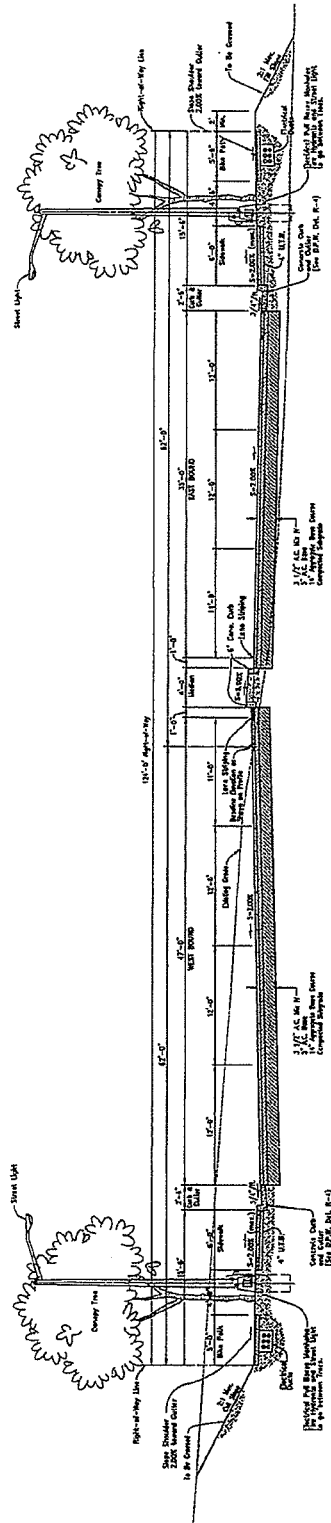
**KAONO'ULU STREET EXTENSION**  
(STA. 0+00 TO 9+50)  
Scale: 1 in. = 40 ft.

DAVID S. LUNDE  
Professional Engineer  
State of Hawaii  
License No. 10000

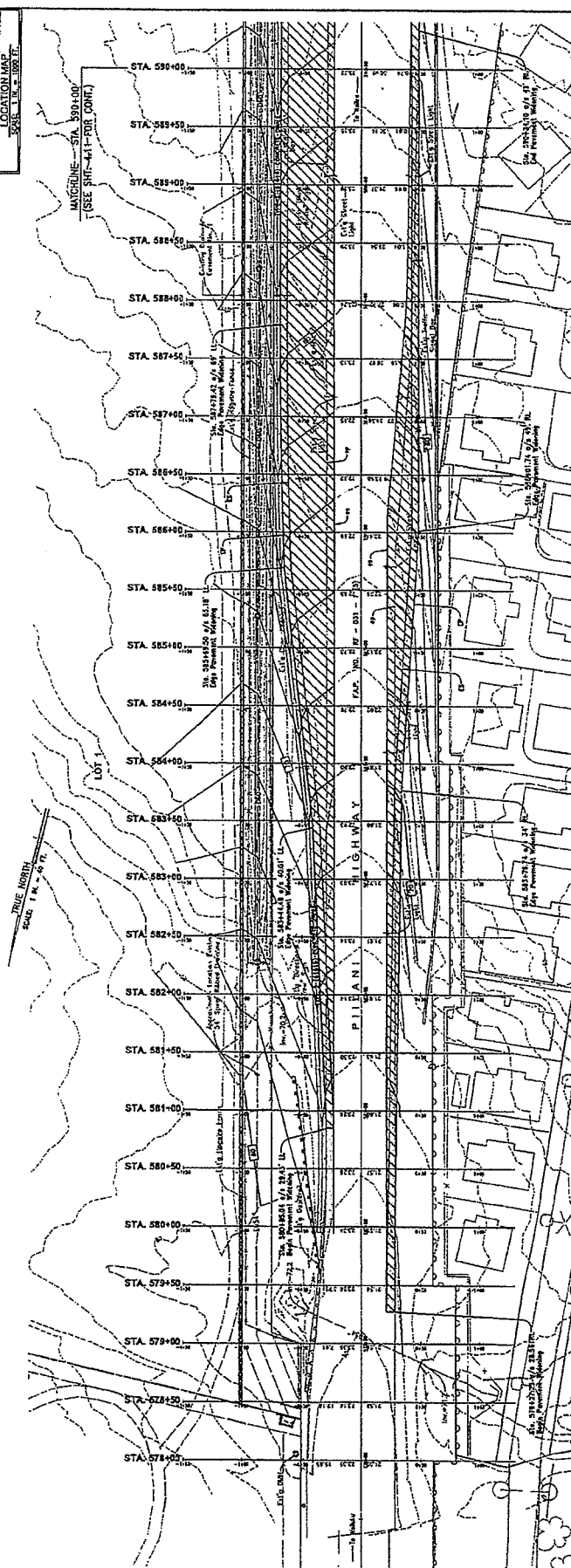
**WARD S. LUNDE ENGINEERING, INC.**  
1000 KALANIANA'OLE BLVD., SUITE 200  
HONOLULU, HAWAII 96813  
TEL: (808) 943-1111  
FAX: (808) 943-1112

**KAONO'ULU MARKET PLACE**  
TAKI, OAHU  
DEVELOPED GRADING PLAN -  
KAILUA, HAWAII

PROJECT NO. 10000  
SHEET NO. 1 OF 1  
DATE: 10-10-05

[illegible]





**LEGEND:**  
 es = Existing Edge Stripe  
 ep = Existing Edge Pavement  
 ES = Proposed Edge Stripe  
 EP = Proposed Edge Pavement


**WARREN S. LIVINGSTON ENGINEERING INC.**

THE UNIVERSITY OF MICHIGAN LIBRARY  
CIVIL & STRUCTURAL ENGINEERING DIVISION  
2113 WELLS STREET, ANN ARBOR, MICHIGAN 48106-1323

**KANOULU MARKET PLACE**

T.M.K.: (2) 2-2-02 : Por. of Por. 15 and 3-8-01 : 16  
KITH. MALU. HAWAII

... ..

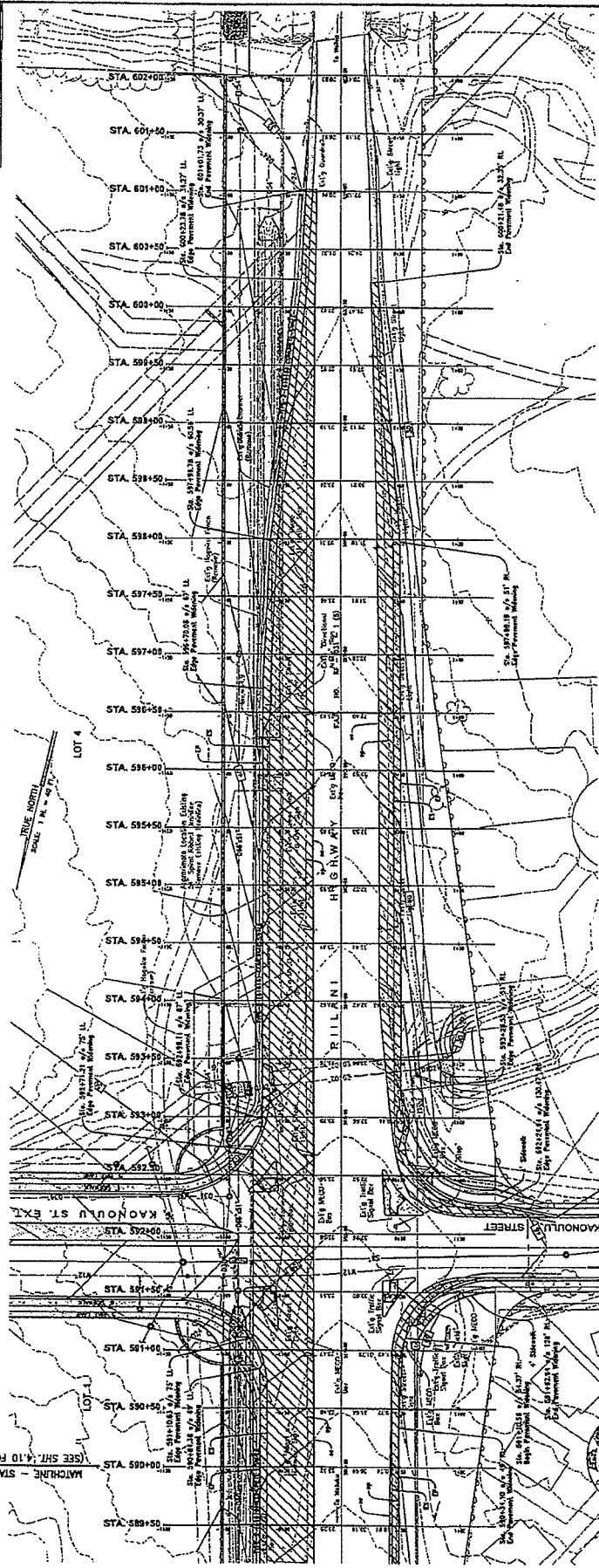
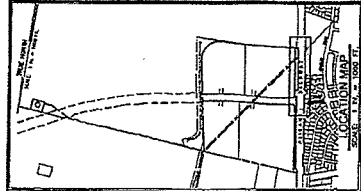
| THE CROSS SECTION - PLAIN HIGHWAY |     |
|-----------------------------------|-----|
| AW                                | OTU |

|      |          |      |       |      |      |
|------|----------|------|-------|------|------|
| DATE | 01/01/00 | TIME | 11:00 | TEMP | 4.10 |
| DATE | 01/01/00 | TIME | 11:00 | TEMP | 4.10 |

|          |          |
|----------|----------|
| 10-10-05 | 10-10-05 |
|----------|----------|

DATE OF BIRTH: 20/01/1977

[illegible]



**MARKEN S. LINDBERGH ENGINEERING, INC.**  
 1000 KALANIANAʻOHE BLVD., SUITE 200  
 HONOLULU, HAWAII 96813  
 TEL: 808-955-1111 FAX: 808-955-1112

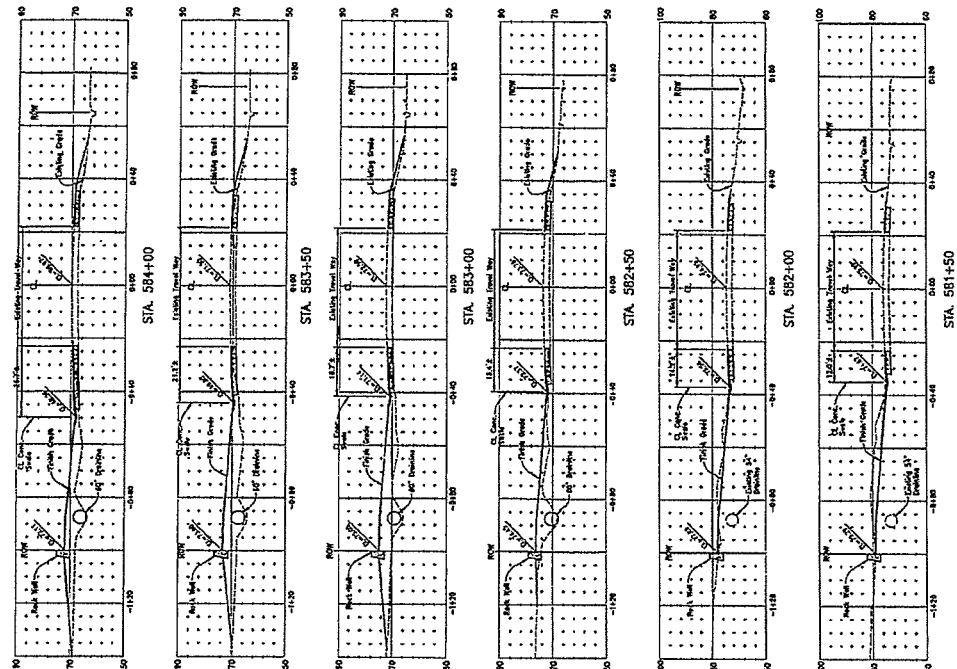
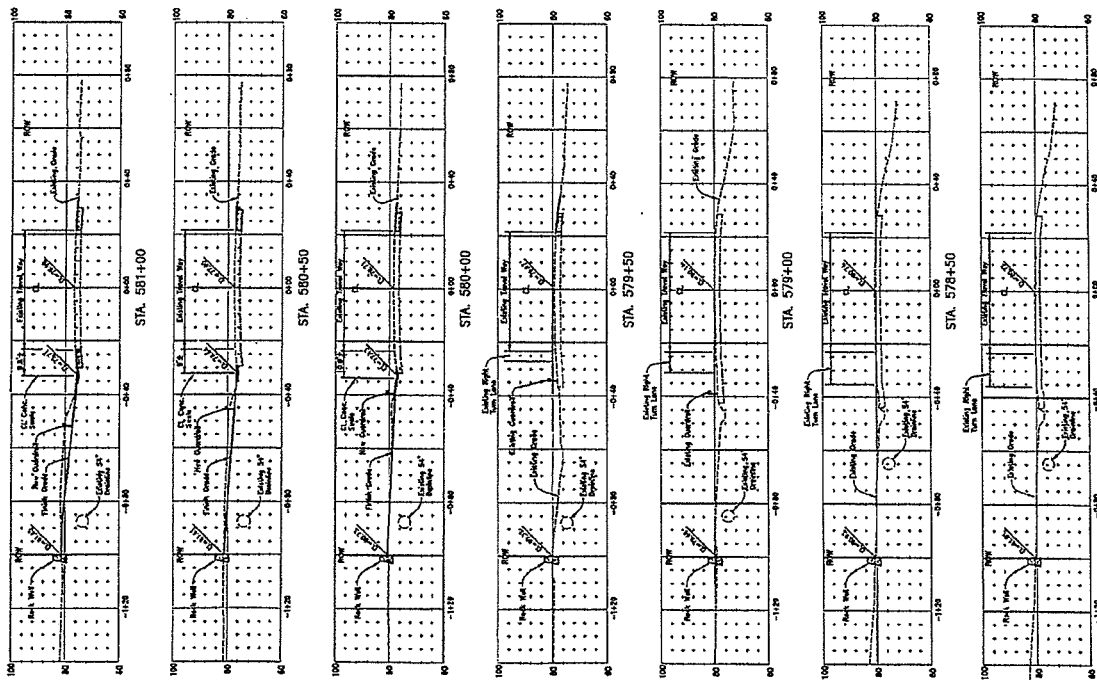
**KAONOLU MARKET PLACE**  
 PROJECT NO. 15-0000-01 : 16  
 SHEET NO. 16 OF 16

**DATE: 04/18/10**  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 IN CHARGE: [Signature]

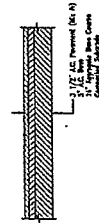
**SCALE: 1" = 40' H.S.**

**LEGEND:**  
 ES = Existing Edge Slope  
 EP = Existing Edge Perimeter  
 ES = Proposed Edge Slope  
 EP = Proposed Edge Perimeter

MATCHLINE - STA. 580+00  
 (SEE SHEET 15-0000-01 FOR CONT.)



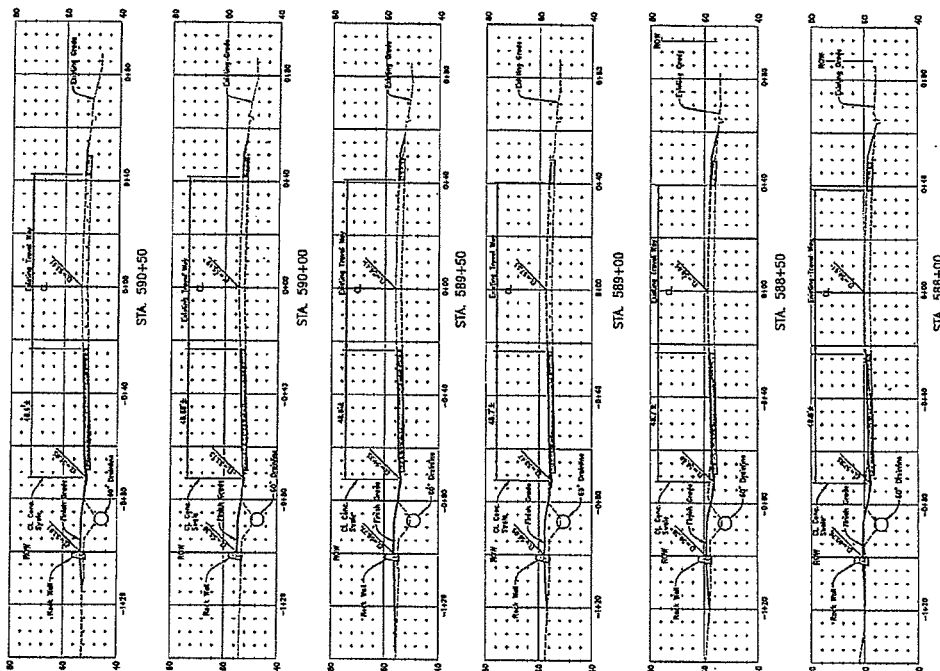
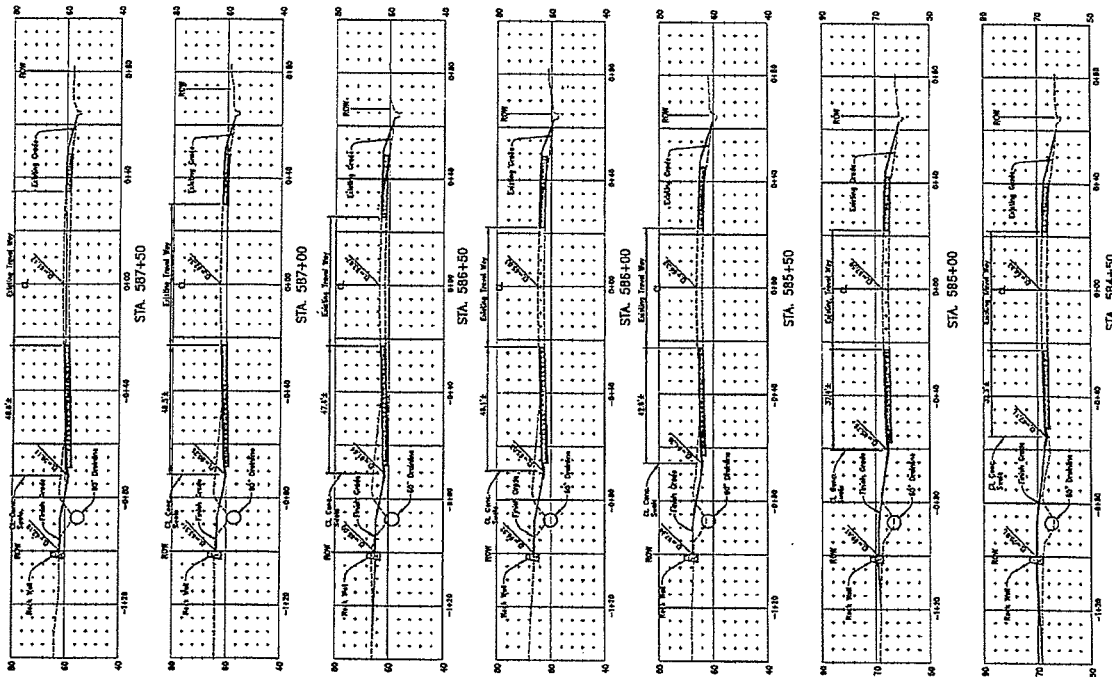
CROSS SECTIONS  
 Scale: 1" = 20'  
 1" = 100'



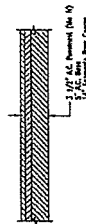
STA 578+47.53 • BOUNDARY LINE

TYPICAL PAVEMENT SECTION FOR PILANI HIGHWAY WIDENING  
 NOT TO SCALE

|                                                                                 |  |                                                                                                                                                       |  |
|---------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                 |  | M. S. Srinivasan Engineering, Inc.<br>1111 WEST HARRISON AVENUE, SUITE 100<br>CHICAGO, ILLINOIS 60606-3100<br>TEL: (312) 344-1111 FAX: (312) 344-1112 |  |
| PROJECT: PILANI HIGHWAY WIDENING<br>DRAWING: 10-10-45                           |  | DATE: 10-10-45                                                                                                                                        |  |
| SCALE: 1" = 20'<br>1" = 100'                                                    |  | SHEET: 4.12                                                                                                                                           |  |
| PREPARED BY: [Signature]<br>CHECKED BY: [Signature]<br>APPROVED BY: [Signature] |  | DATE: 10-10-45                                                                                                                                        |  |



CROSS SECTIONS  
Scale: Horiz. 1" = 20'  
Vert. 1" = 20'



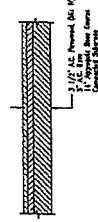
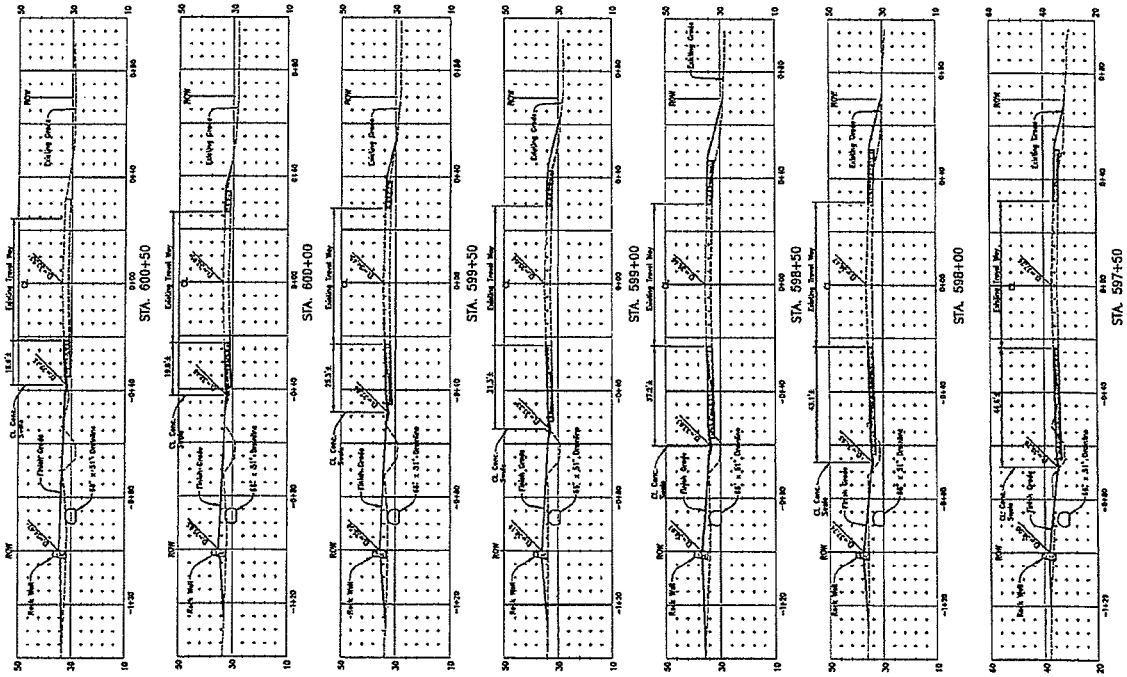
TYPICAL PAVEMENT SECTION FOR PILIHU HIGHWAY WIDENING  
NOT TO SCALE

|                                                                                                                     |  |                                                                                                                             |  |
|---------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                     |  | WARD & SONS ENGINEERING, INC.<br>1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>TEL: (808) 531-1115 FAX: (808) 531-1116 |  |
| PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  | PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05         |  |
| PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  | PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05         |  |
| PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  | PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05         |  |



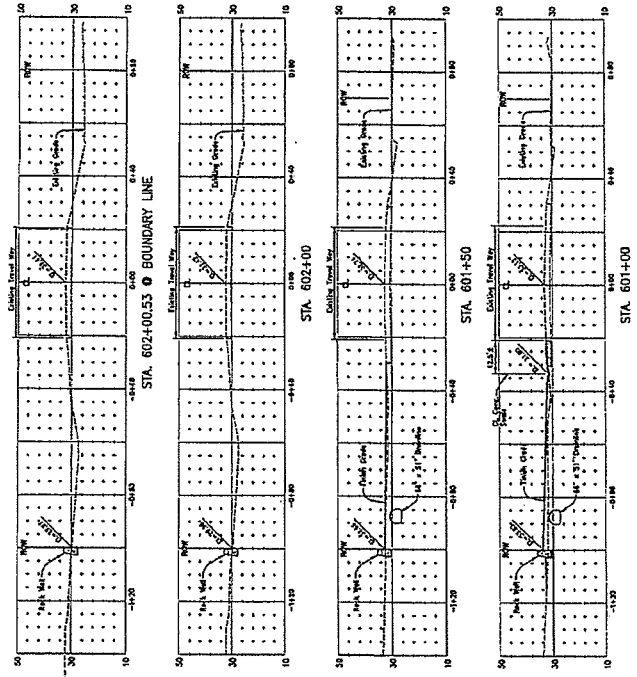
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| PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  | PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  |
| PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  | PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  |
| PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  | PROJECT NO. 1115 KULU STREET, SUITE 100, HONOLULU, HI 96813<br>PROJECT NAME: KAONOLU MARKET PLACE<br>DATE: 11-18-05 |  |





CROSS SECTIONS  
Scale: Horiz. 1" = 20'  
Vert. 1" = 20'

TYPICAL PAVEMENT SECTION FOR PILANI HIGHWAY WIDENING  
INT TO SOALE



**WARREN S. LINDGREN ENGINEERING, INC.**  
1100 WEST WASHINGTON STREET, SUITE 400  
MILWAUKEE, WISCONSIN 53233  
TEL: 414-333-1100 FAX: 414-333-1101  
WWW.WSLENG.COM

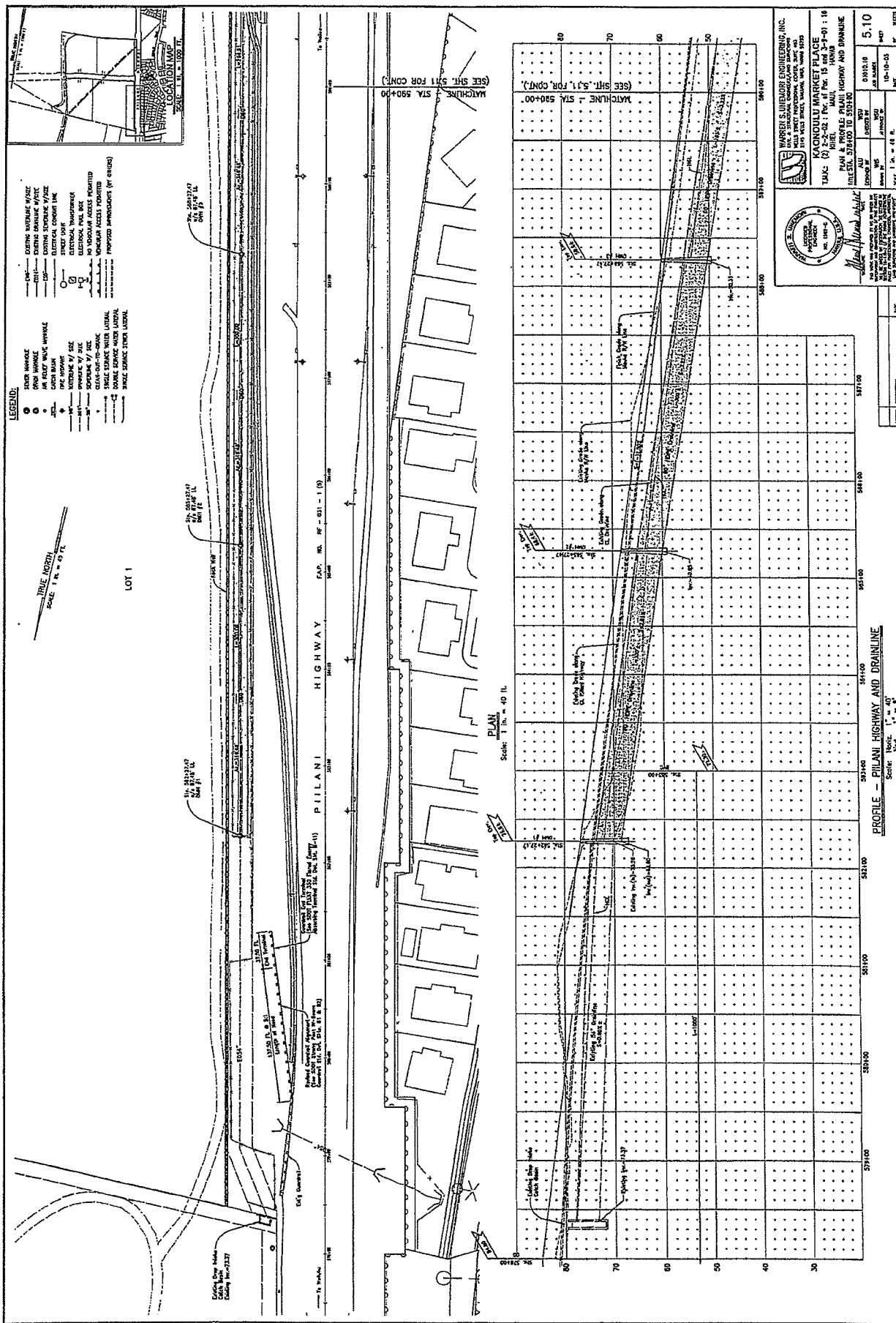
**RAONITILU MARKET PLACE**  
1100 WEST WASHINGTON STREET, SUITE 400  
MILWAUKEE, WISCONSIN 53233  
TEL: 414-333-1100 FAX: 414-333-1101  
WWW.WSLENG.COM

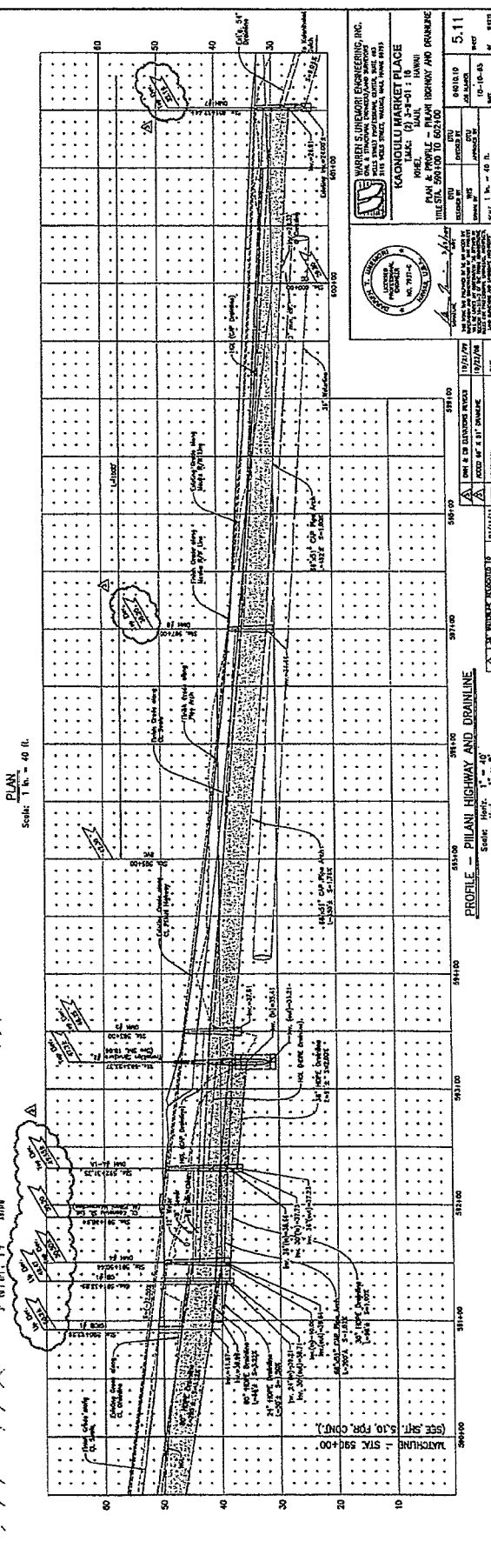
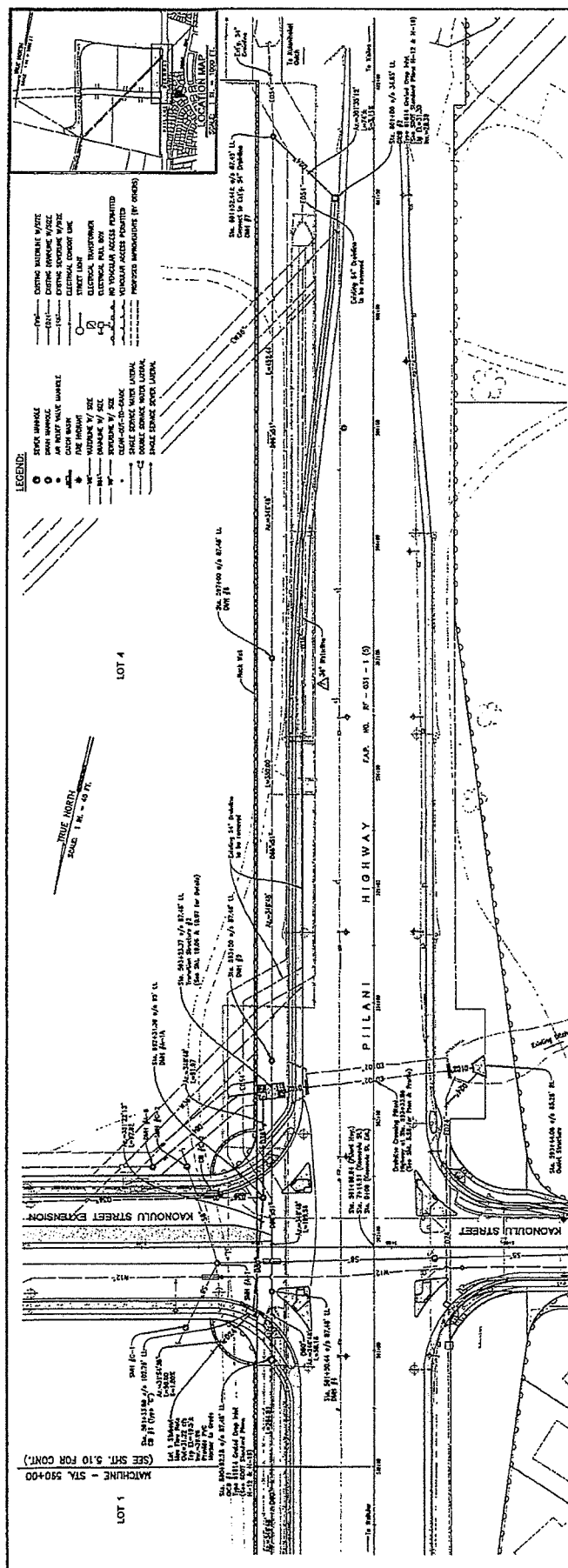
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| PROJECT NO. 10-10-05                 |                    | SHEET NO. 4.15             |                |
| DATE: 10-10-05                       | BY: J. L. LINDGREN | CHECKED BY: J. L. LINDGREN | DATE: 10-10-05 |
| TITLE: CROSS SECTION: PILANI HIGHWAY |                    | SCALE: 1" = 20'            |                |











**WARREN S. LINDSAY ENGINEERING, INC.**  
 1000 WEST 10TH AVENUE  
 SELLERS PARK BUILDING, SUITE 400  
 1115 WEST STREET, WASHINGTON, D.C. 20004

**KACNOULLI MARKET PLACE**  
 TAKE: (1) 3-4-81 : 18  
 WORK: 18-24-81

PLAN: KACNOULLI - PLANK, RIGIDITY AND DRUMMING  
 TITLE: 500-120 TO 622-120

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| DATE        | DATE        | DATE        | DATE        |
| RECEIVED BY | APPROVED BY | APPROVED BY | APPROVED BY |
| DATE        | DATE        | DATE        | DATE        |
| DATE        | DATE        | DATE        | DATE        |

5.11

DATE: 10-10-81  
 TIME: 10:00 AM  
 BY: KACNOULLI  
 NO. 10-10-81

[illegible]

|          |                           |          |
|----------|---------------------------|----------|
| 10/21/08 | DOWN & CO ELEVATORS INC   | 10/21/08 |
| 10/21/08 | ROCKED 48" X 91" SHALMINE | 10/21/08 |

|        |     |
|--------|-----|
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|--------|-----|

553+00 378+70  
PROFILE - PILANI HIGHWAY AND DRAINLINE  
Scale: Horiz. 1" = 40'

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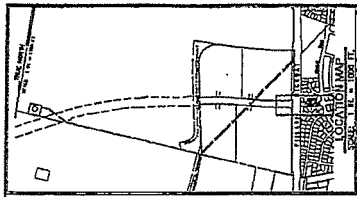
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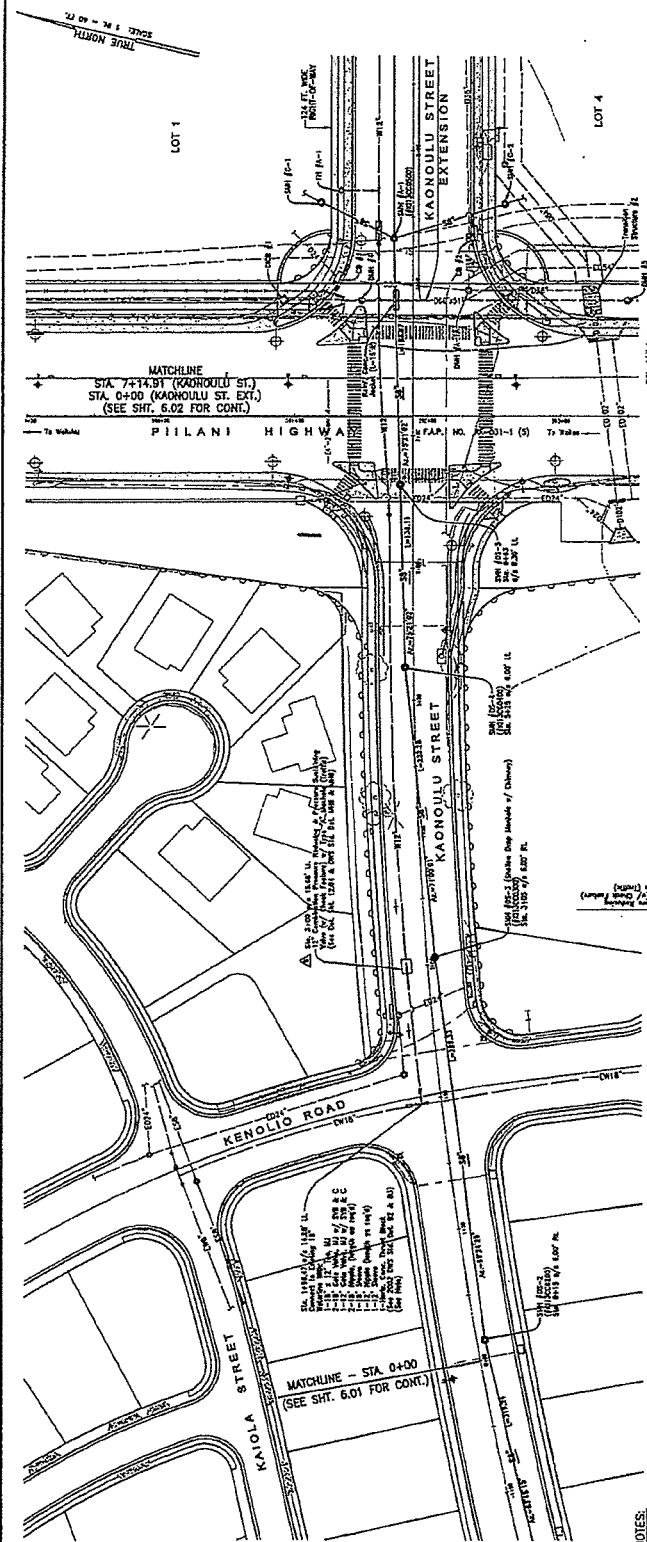






LEGEND:

- LOT 1
- LOT 2
- LOT 3
- LOT 4
- LOT 5
- LOT 6
- LOT 7
- LOT 8
- LOT 9
- LOT 10
- LOT 11
- LOT 12
- LOT 13
- LOT 14
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- LOT 96
- LOT 97
- LOT 98
- LOT 99
- LOT 100



NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND TYPE OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

PLAN

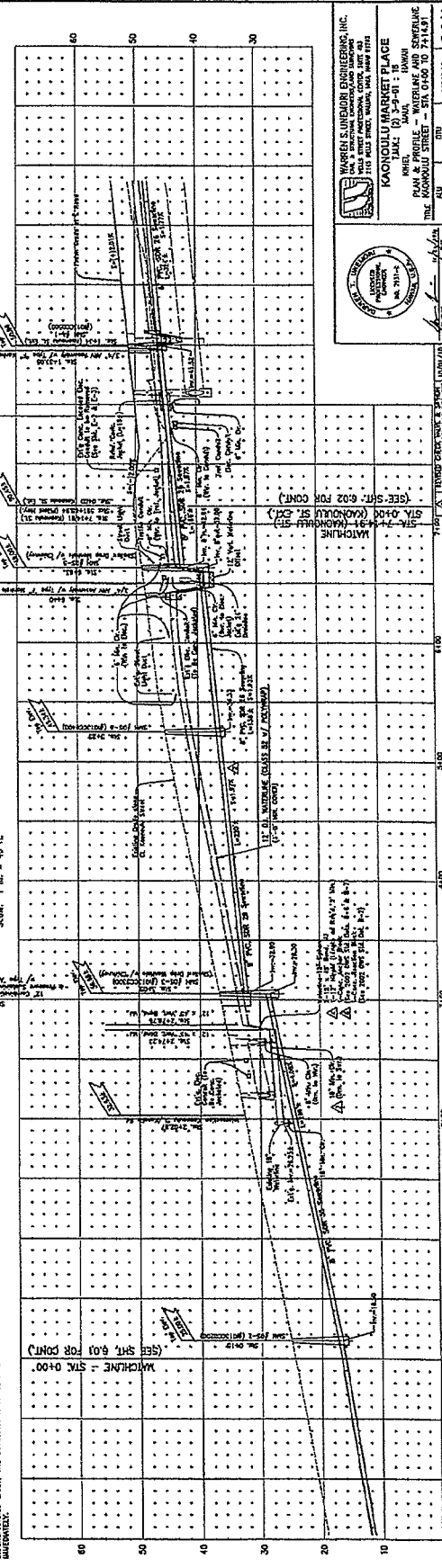
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LOT 4

Scale: 1" = 40' ft.

PROFILE

Scale: 1" = 40' ft.



PROFILE - KAONOLOU STREET

Scale: 1" = 40' ft.

KAONOLOU STREET

Scale: 1" = 40' ft.

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KAONOLOU STREET

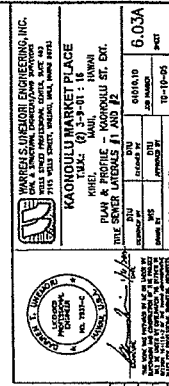
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KAONOLOU STREET

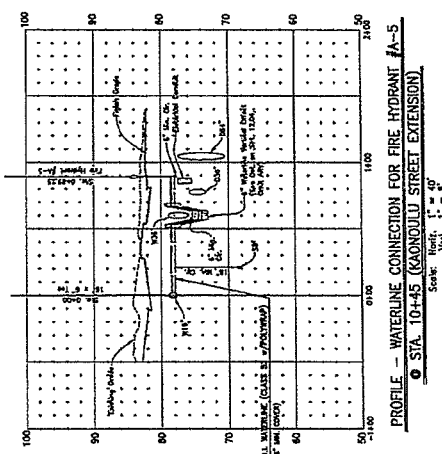
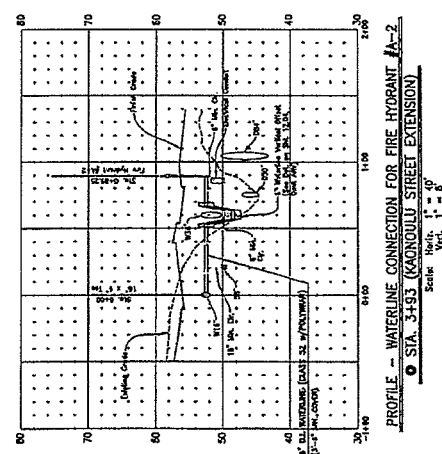
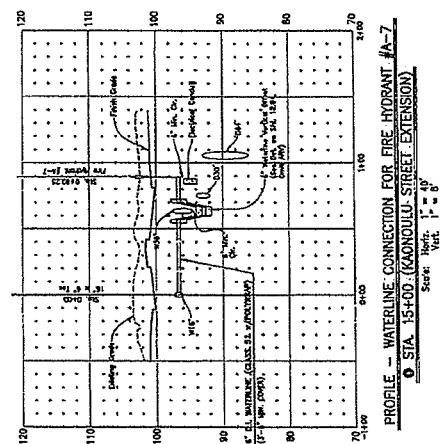
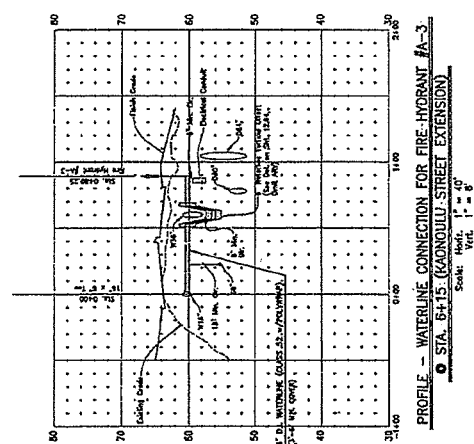
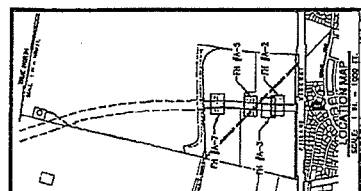
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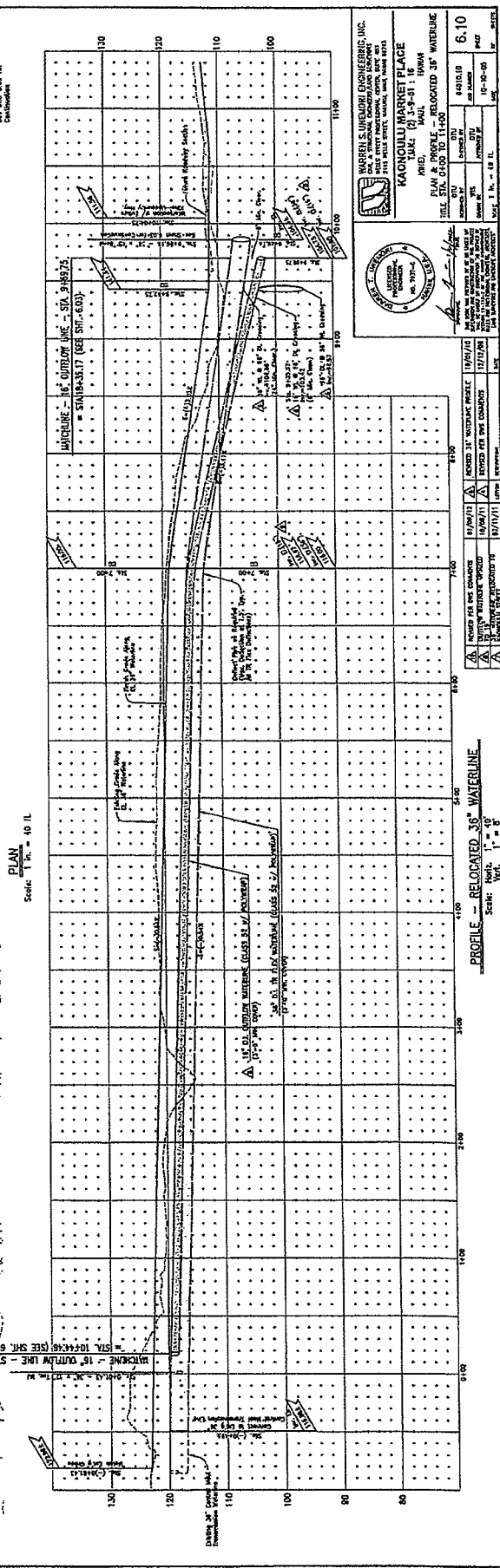
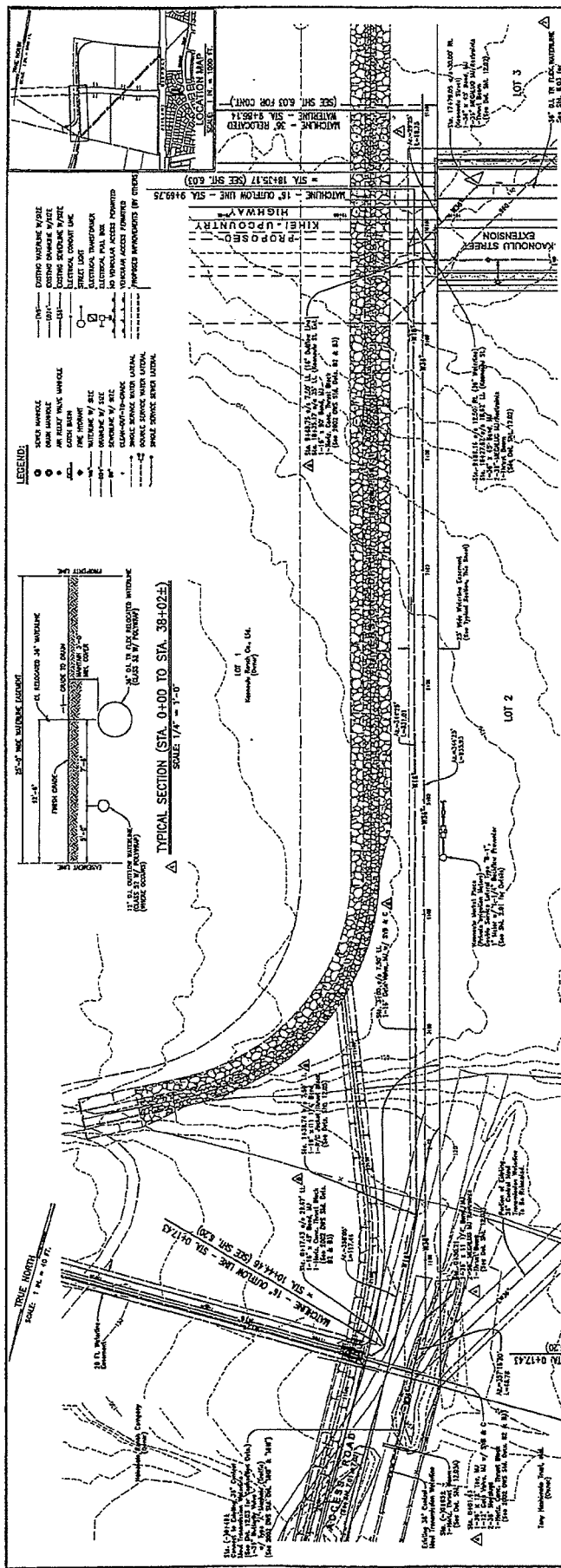




WATER & LAND ENGINEERING, INC.  
 1000 KALANIANA'OLE BLVD., SUITE 100  
 HONOLULU, HAWAII 96813  
 TEL: (808) 521-1111 FAX: (808) 521-1112

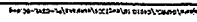
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 SHEET NO. 10000-1  
 DATE: 10/1/00

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| CHECKED BY  | RAJ      | DATE | 10/1/00 |
| APPROVED BY | RAJ      | DATE | 10/1/00 |
| SCALE       | 1" = 40' |      |         |



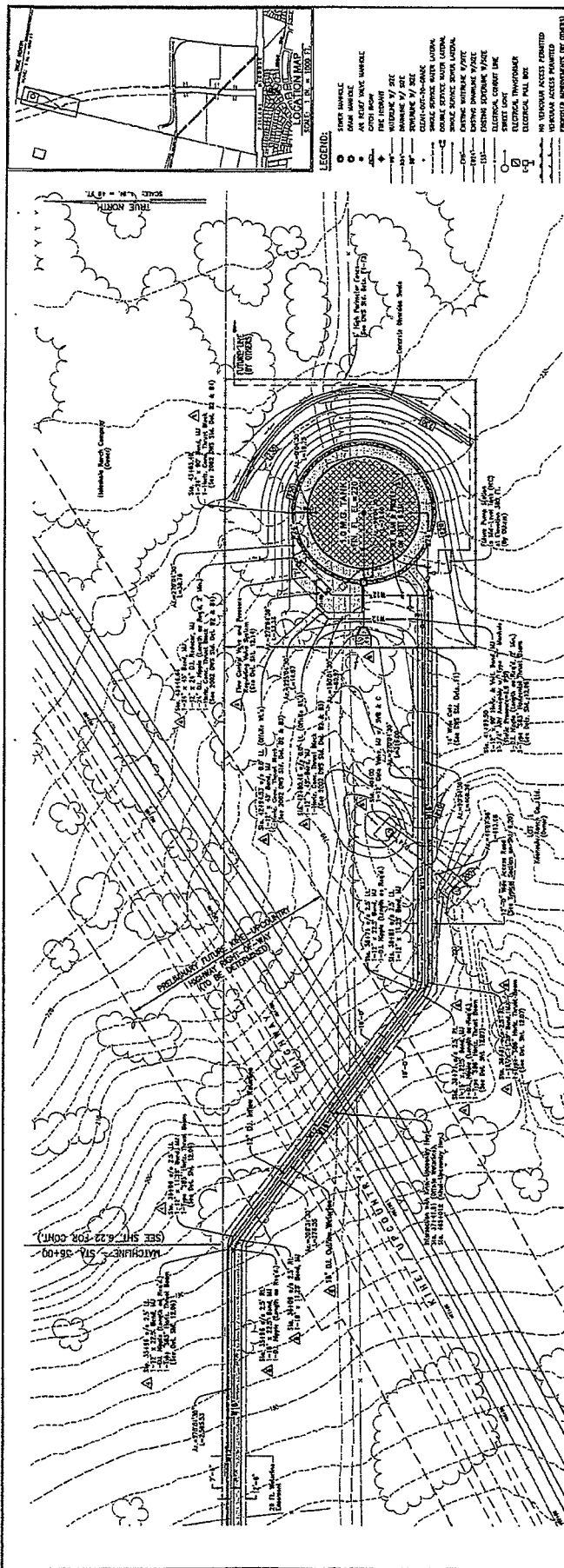
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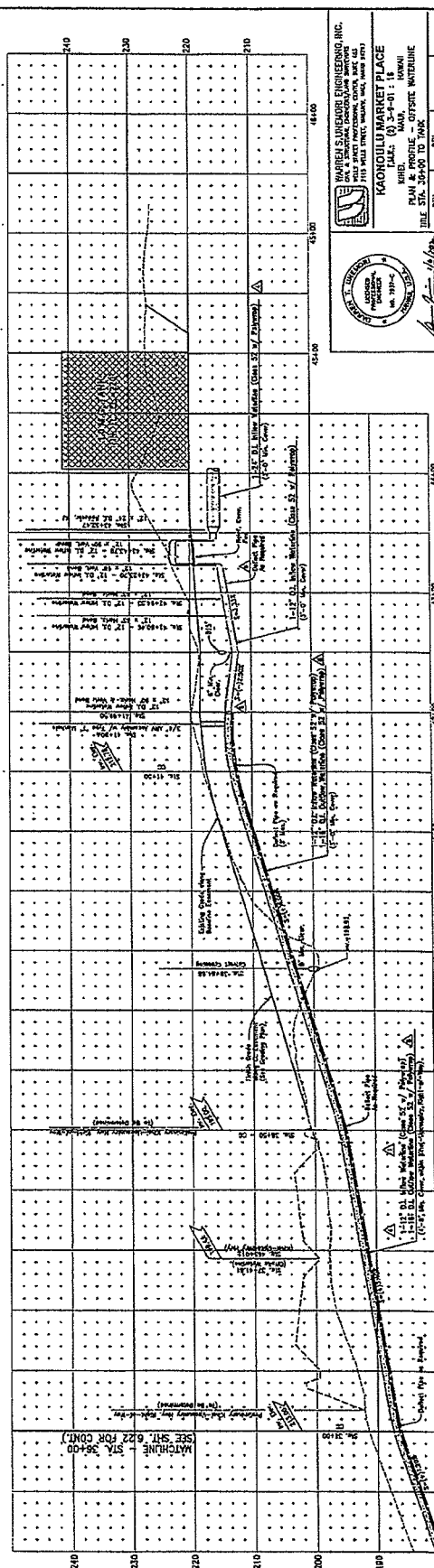


|                                                                                     |                                                                                                                 |  |                                                                                                    |  |                                                                                        |  |                                                                     |  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|
|  | <b>WORLD'S UREDOLO ENGINEERING, INC.</b><br>10000 W. 10th Ave., Suite 100<br>Denver, CO 80202<br>(303) 751-1000 |  | <b>KAORUKU MARKET PLACE</b><br>10000 W. 10th Ave., Suite 100<br>Denver, CO 80202<br>(303) 751-1000 |  | <b>PLAN &amp; PROFILE - OTSISE INTERLINE</b><br>KNEB MAUI<br>TULLE STA. B160 TO 274-00 |  | <b>6.21</b>                                                         |  |
|                                                                                     | 10000 W. 10th Ave., Suite 100<br>Denver, CO 80202<br>(303) 751-1000                                             |  | 10000 W. 10th Ave., Suite 100<br>Denver, CO 80202<br>(303) 751-1000                                |  | 10000 W. 10th Ave., Suite 100<br>Denver, CO 80202<br>(303) 751-1000                    |  | 10000 W. 10th Ave., Suite 100<br>Denver, CO 80202<br>(303) 751-1000 |  |





Scale: 1" = 40' N.



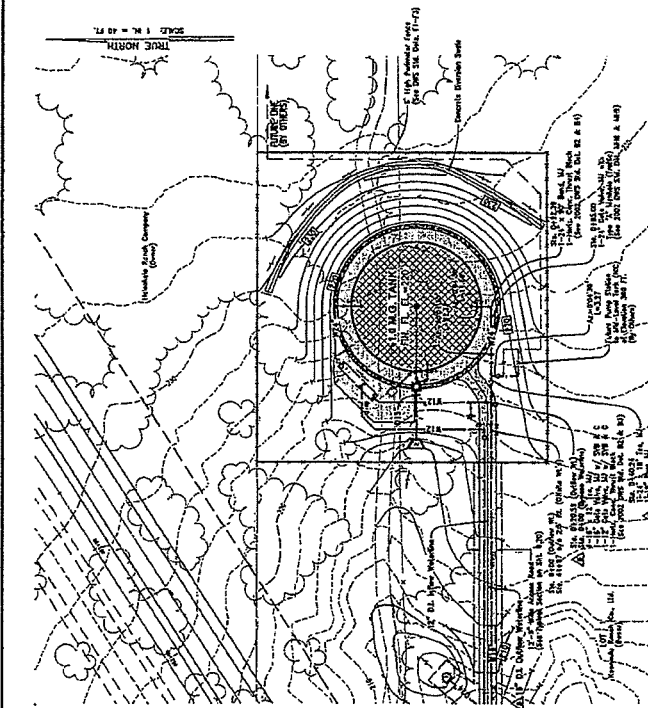
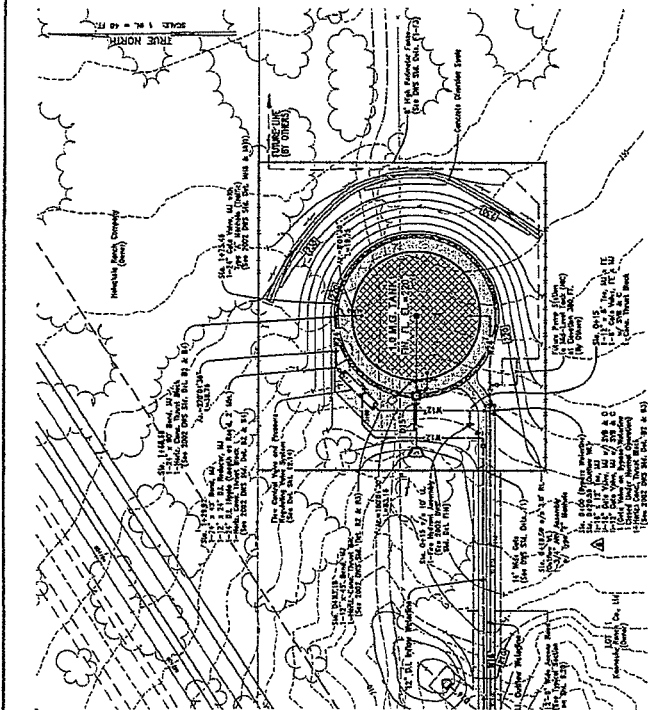
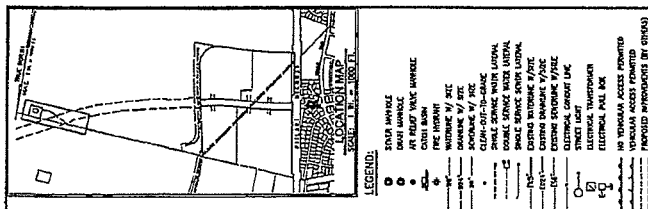
**WATERS LAVORER ENGINEERING INC.**  
 1111 PINE STREET, SUITE 200, HONOLULU, HI 96813  
 (808) 531-1111  
 FAX: (808) 531-1112

**KAOHULU MARKET PLACE**  
 HONOLULU, HI 96813  
 PROJECT NO. 1111111111  
 SHEET NO. 1 OF 1

**DATE: 11/11/11**  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]

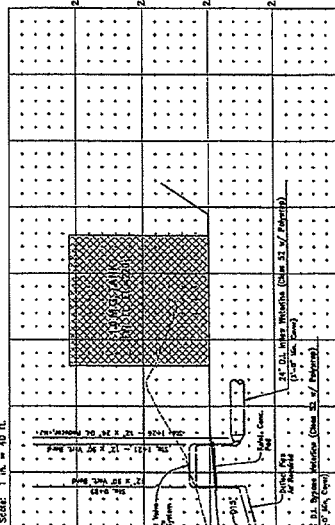
**6.23**

| NO. | REVISION            | DATE     | BY          | CHKD.       | APPD.       |
|-----|---------------------|----------|-------------|-------------|-------------|
| 1   | ISSUED FOR PERMITS  | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 2   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 3   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 4   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 5   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 6   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 7   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 8   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 9   | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |
| 10  | REVISED FOR PERMITS | 11/11/11 | [Signature] | [Signature] | [Signature] |



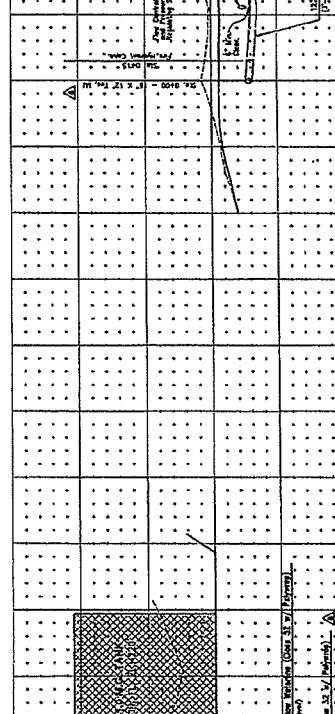
PLAN

Scale: 1 in. = 40 ft.



PLAN

Scale: 1 in. = 40 ft.



**WARREN S. LINDSEY ENGINEERING, INC.**  
INCORPORATED  
2100 KALANAN KAHALANA DRIVE, SUITE 100  
HONOLULU, HAWAII 96815-1111  
PHONE: (808) 943-1111  
FAX: (808) 943-1112  
WWW.WSLENG.COM

**KAONOLU MARKET PLACE**  
PROJECT NO. 03-01-11  
SHEET NO. 1 OF 1  
DATE: 10/11/03  
BY: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]

**PROJECT INFORMATION**  
PROJECT: KAONOLU MARKET PLACE  
SHEET: 1 OF 1  
DATE: 10/11/03  
BY: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]

**REVISIONS**

| NO. | DESCRIPTION             | DATE     |
|-----|-------------------------|----------|
| 1   | ISSUED FOR BIDDING      | 10/11/03 |
| 2   | FOR REVIEW AND APPROVAL | 10/11/03 |
| 3   | FOR REVIEW AND APPROVAL | 10/11/03 |

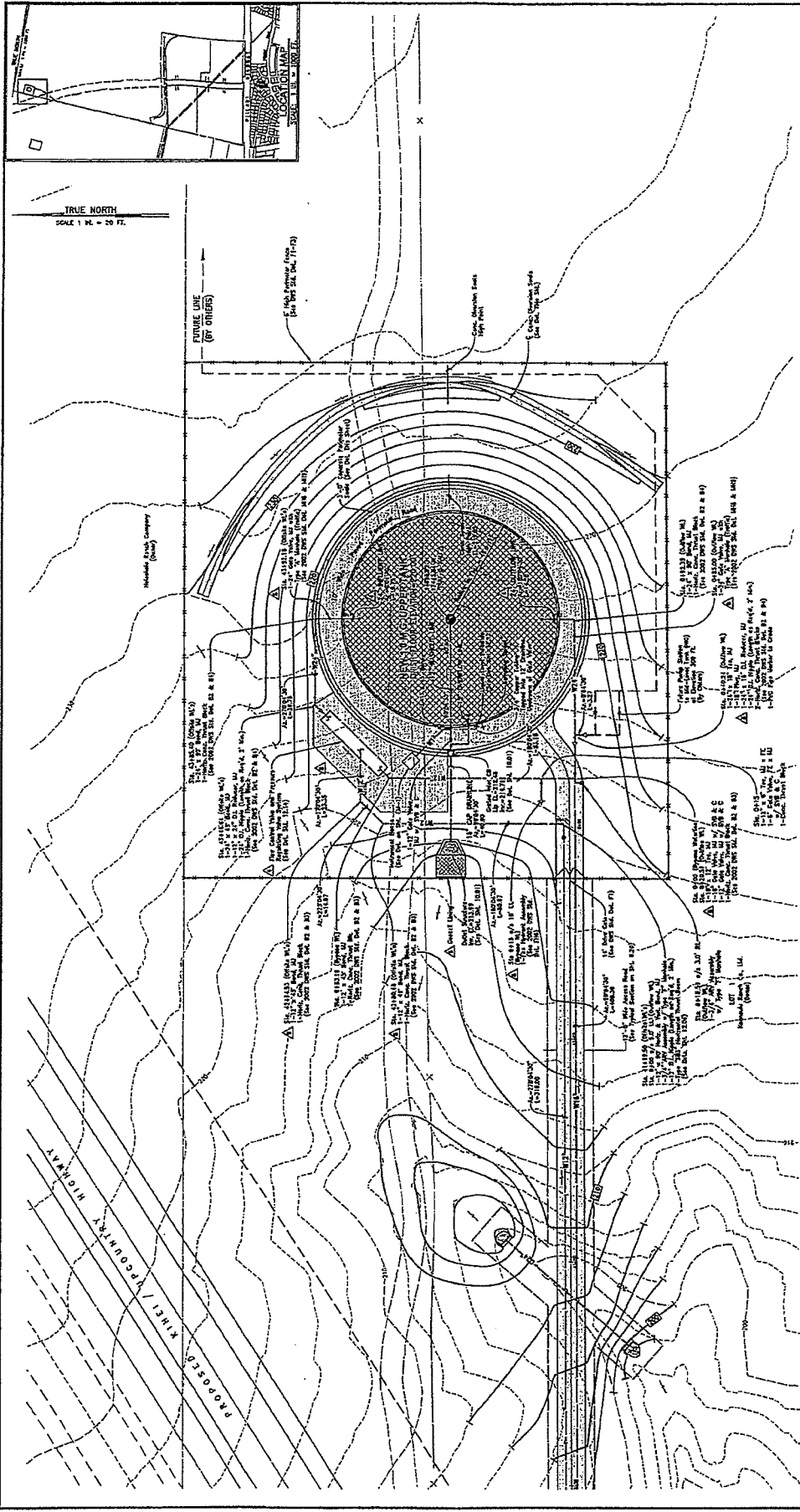
**625A**

**PROFILE - STRESS WATERLINE**  
Scale: 1 in. = 40 ft.

**PROFILE - STRESS WATERLINE**  
Scale: 1 in. = 40 ft.

**PROFILE - OUTFLOW WATERLINE**  
Scale: 1 in. = 40 ft.

**PROFILE - OUTFLOW WATERLINE**  
Scale: 1 in. = 40 ft.

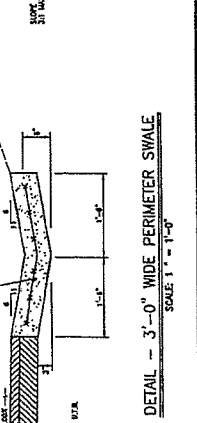
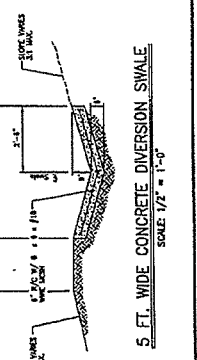


**WARDEN S. LINEHAR ENGINEERING, INC.**  
 CIVIL & MECHANICAL ENGINEERING  
 1111 N. 11TH STREET, SUITE 100, MILWAUKEE, WI 53233  
 TEL: 414-224-1111 FAX: 414-224-1112

**KAHOULU MARKET PLACE**  
 MILWAUKEE, WISCONSIN  
 TALK: (414) 333-3333

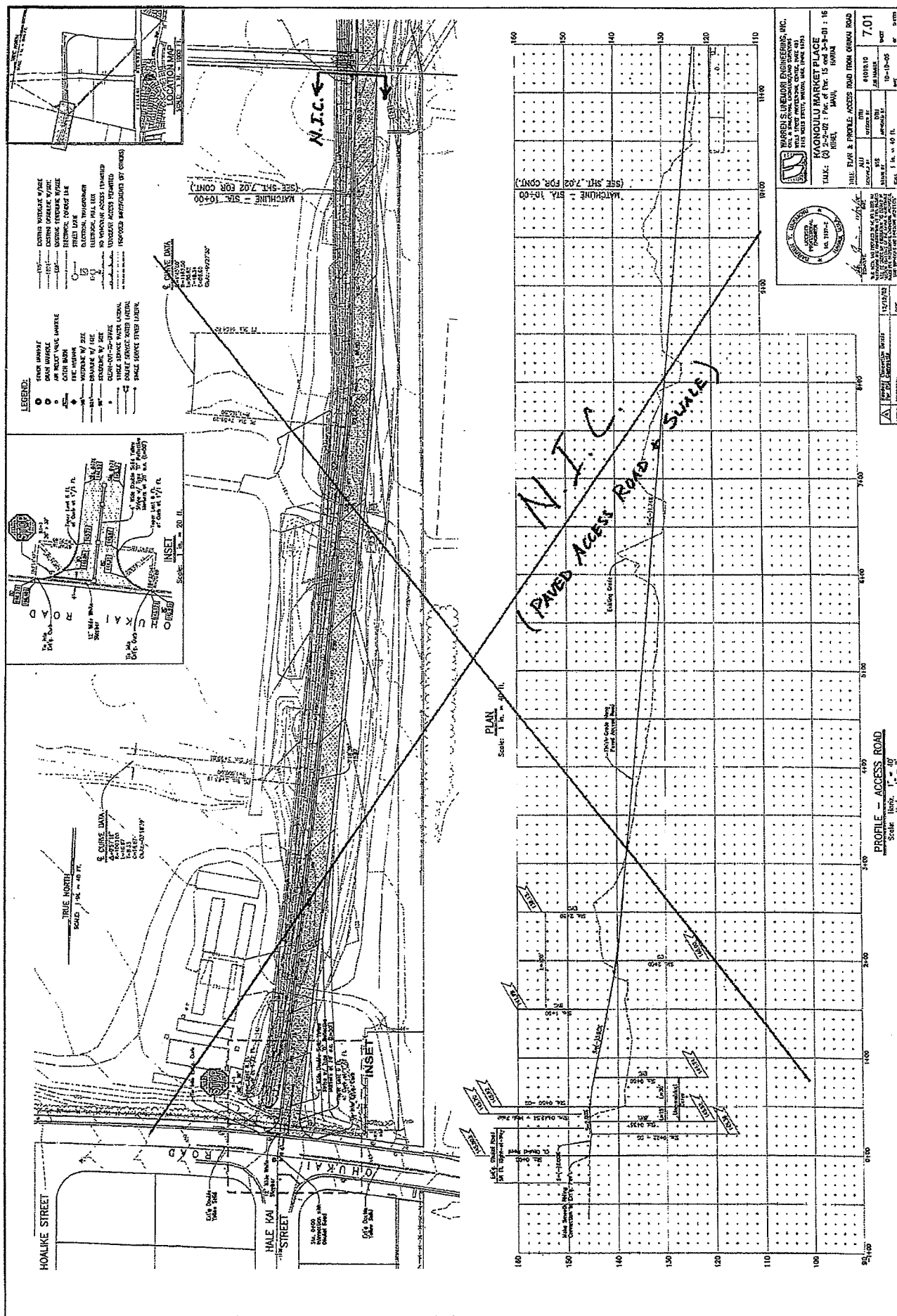
**FILE SITE PLAN - 1/2" M.C. WATER TANK**  
 04/18/10  
 18-10-05  
 1/2" = 20' FT.  
 1/2" = 20' FT.

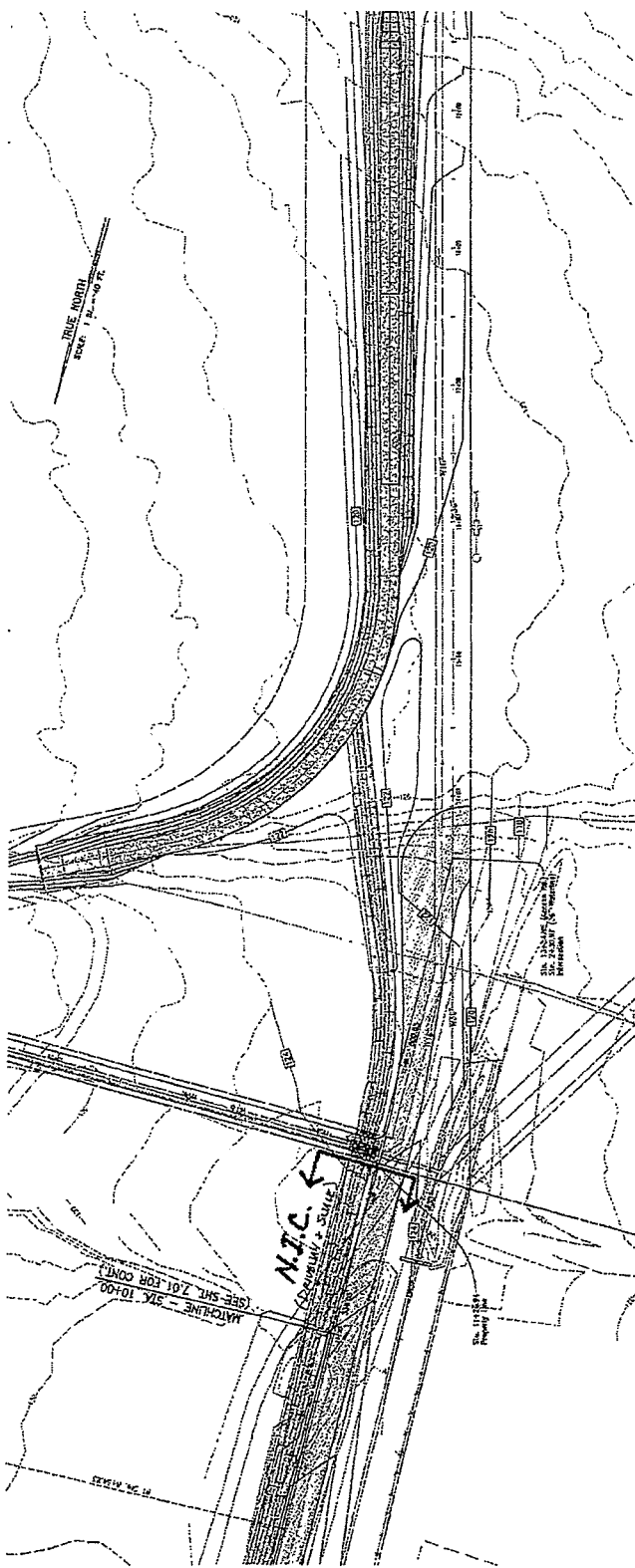
| NO. | REVISION           | DATE     |
|-----|--------------------|----------|
| 1   | ISSUED FOR PERMITS | 04/18/10 |
| 2   | ISSUED FOR PERMITS | 04/18/10 |
| 3   | ISSUED FOR PERMITS | 04/18/10 |
| 4   | ISSUED FOR PERMITS | 04/18/10 |
| 5   | ISSUED FOR PERMITS | 04/18/10 |



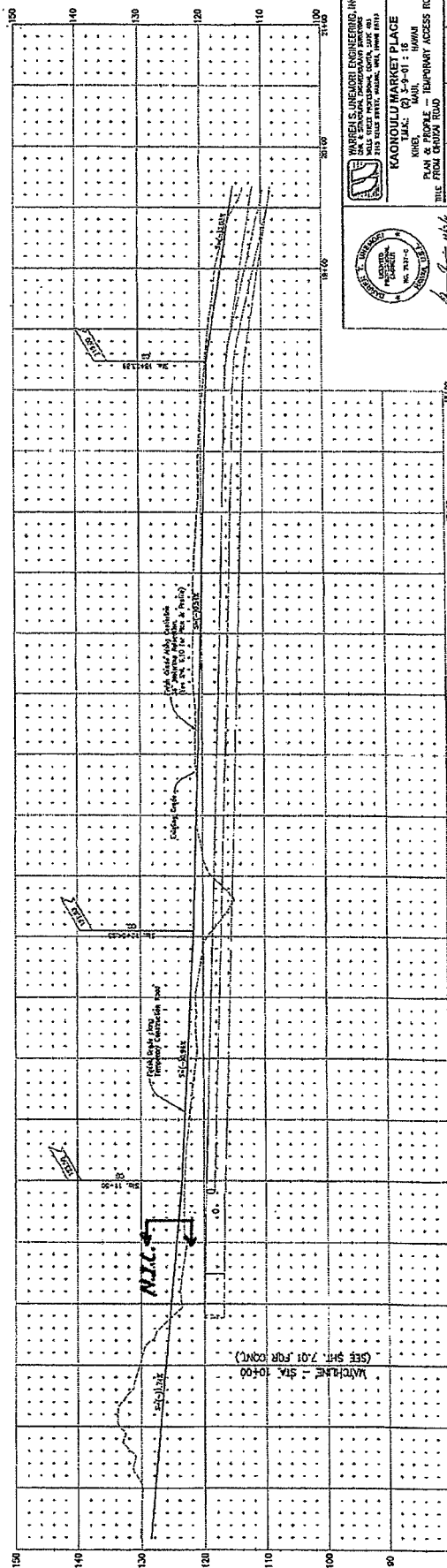
**NOTES:**  
 1. PROPOSED PRELIMINARY RIGHT OF WAY AS SHOWN ON PLANS OBTAINED FROM THE CITY OF MILWAUKEE.  
 2. EXISTING UTILITIES SHOWN ON PLANS OBTAINED FROM THE CITY OF MILWAUKEE.  
 3. EXISTING UTILITIES SHOWN ON PLANS OBTAINED FROM THE CITY OF MILWAUKEE.

**APPROXIMATE EARTHWORK QUANTITIES**  
 EXCAVATION = 7,100 CU YD.  
 EMBANKMENT = 1,150 CU YD.





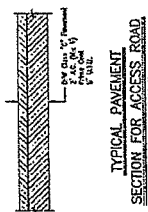
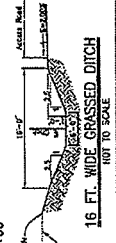
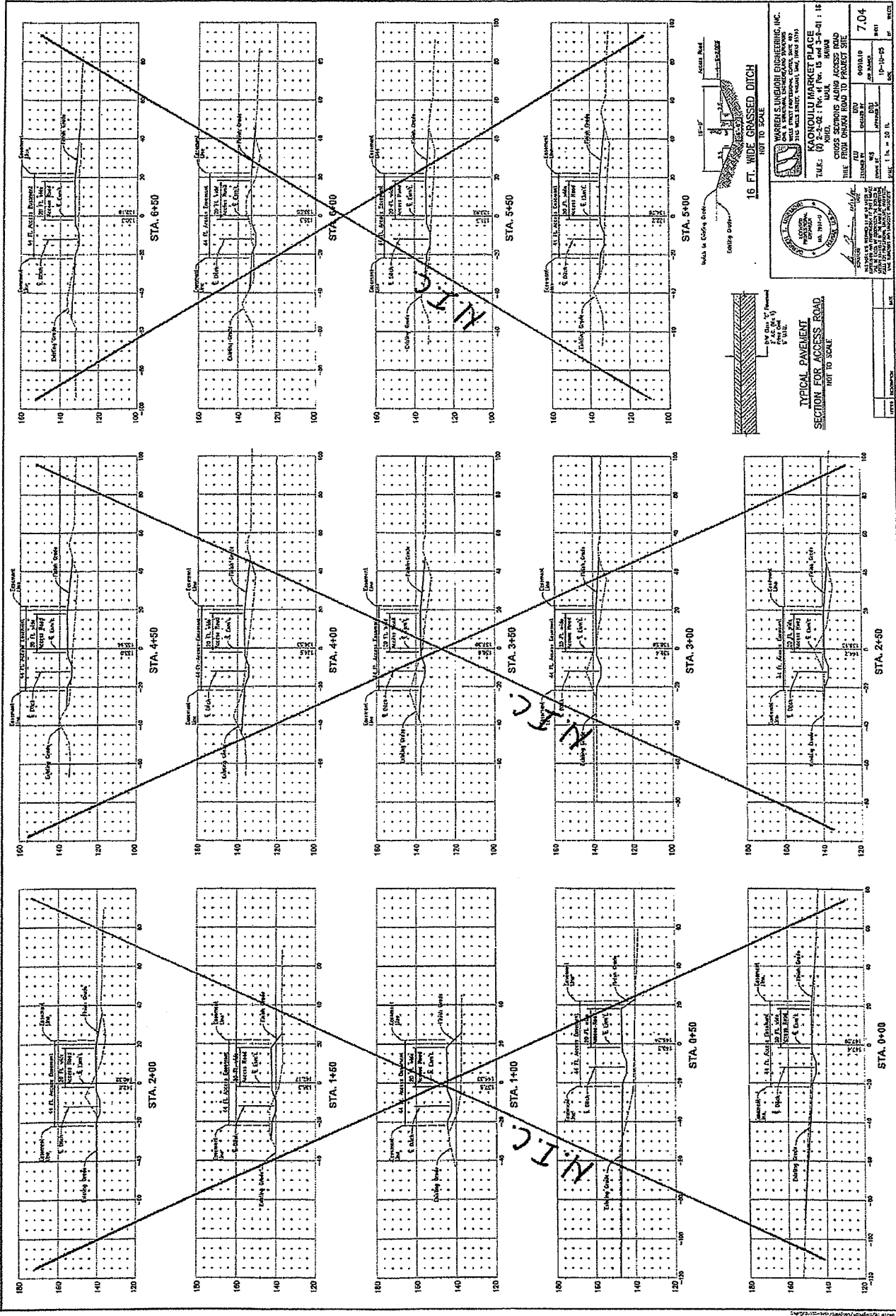
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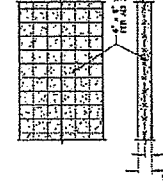
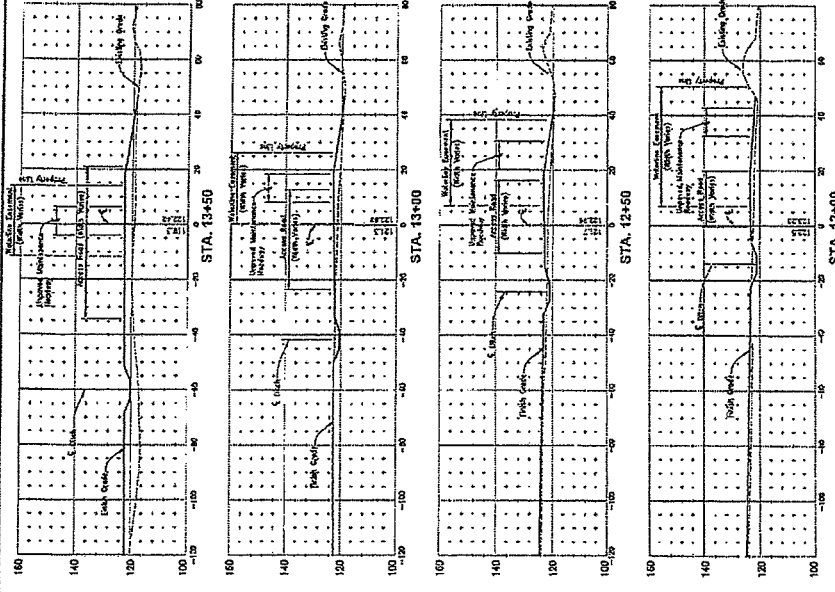
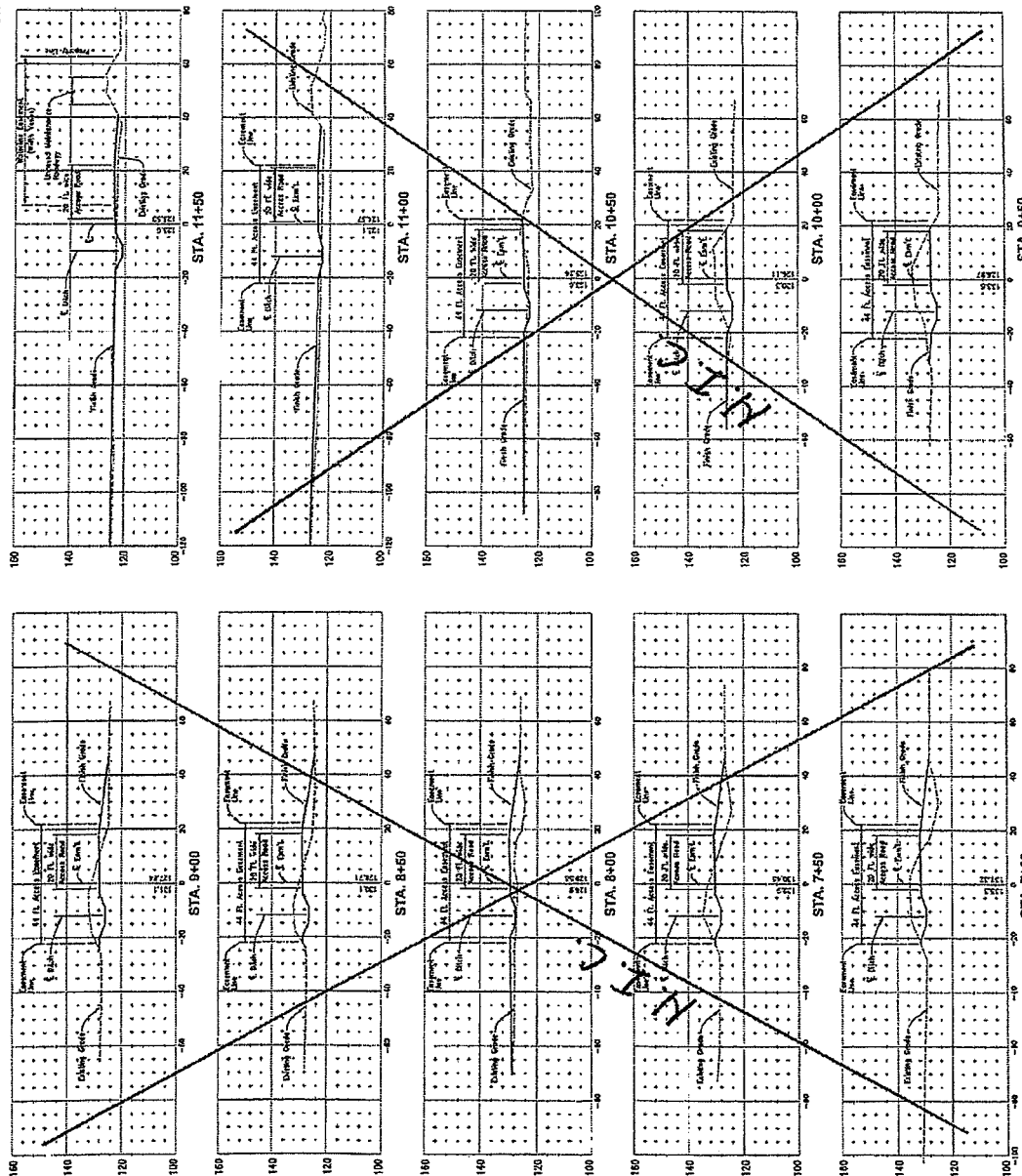
PROFILE - TEMPORARY ACCESS ROAD

[illegible]

|  |  |
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|  |  |
|--|--|



|                                                                                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>WARREN'S ENGINEERING, INC.</b><br>1000 N. 10TH STREET, SUITE 100<br>MILWAUKEE, WISCONSIN 53233<br>TEL: (414) 224-1100<br>FAX: (414) 224-1101<br>WWW.WARENS-INC.COM |  |
| <b>KAONQUILL MARKET PLACE</b><br>1000 N. 10TH STREET, SUITE 100<br>MILWAUKEE, WISCONSIN 53233<br>TEL: (414) 224-1100<br>FAX: (414) 224-1101<br>WWW.WARENS-INC.COM     |  |
| DATE: 01-22-02<br>PROJECT: KAONQUILL MARKET PLACE<br>SHEET: 1 OF 1<br>SCALE: 1" = 20' H, 1" = 20' V                                                                   |  |
| DRAWN BY: J. L. JONES<br>CHECKED BY: J. L. JONES<br>APPROVED BY: J. L. JONES                                                                                          |  |
| 7.04                                                                                                                                                                  |  |



NOT TO SCALE

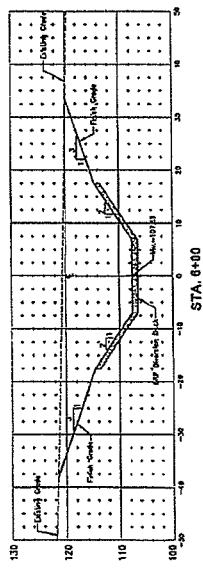
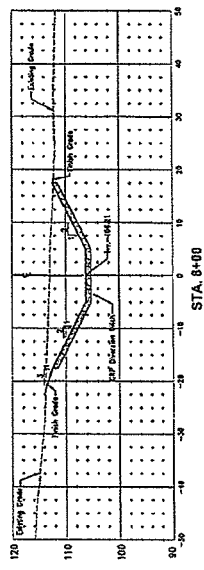
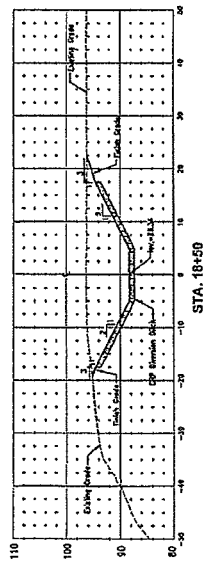
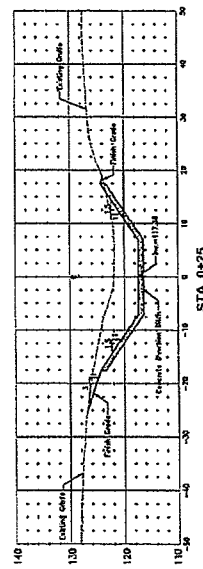
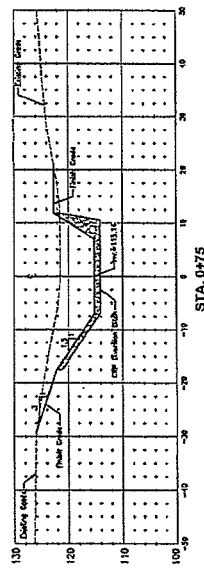
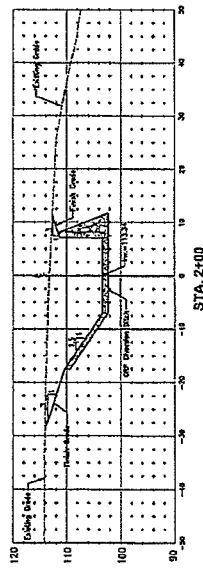
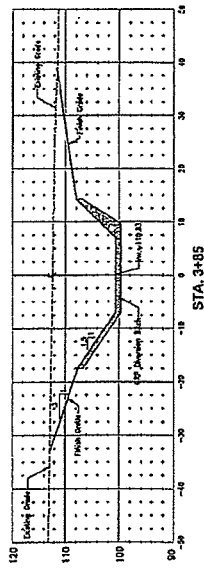
**WARREN S. LUNDQUIST ENGINEERING, INC.**  
 1111 GALE STREET, SUITE 100, ST. LOUIS, MO 63103  
 TEL: (314) 433-1111  
 FAX: (314) 433-1112  
 E-MAIL: WSL@LSI-ENG.COM  
 WWW: WWW.WSLENG.COM

**KAHOLOU MARKET PLACE**  
 PROJECT NO. 11-147  
 CROSS-SECTIONS ALONG ACCESS ROAD  
 TRAIL FROM OQUAY ROAD TO PROJECT SITE

|                           |                  |                     |
|---------------------------|------------------|---------------------|
| DATE: 11-14-07            | BY: J. LUNDQUIST | SCALE: 3/8" = 1'-0" |
| CHECKED BY: J. LUNDQUIST  | DATE: 11-14-07   |                     |
| APPROVED BY: J. LUNDQUIST | DATE: 11-14-07   |                     |
| PROJECT NO. 11-147        | SHEET NO. 1      | TOTAL SHEETS: 1     |







|                                                           |  |                                                                                                                                                     |  |
|-----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                           |  | <b>WILLIS S. WILSON ENGINEERING, INC.</b><br>1111 KALANIL'UWA BLVD., SUITE 200<br>HONOLULU, HAWAII 96813<br>TEL: (808) 521-1111 FAX: (808) 521-1112 |  |
| <b>PROJECT:</b><br>KANOUILLU MARKET PLACE<br>KIRI, HAWAII |  | <b>DATE:</b><br>7/12/04                                                                                                                             |  |
| <b>SCALE:</b><br>1" = 10'                                 |  | <b>BY:</b><br>WSW                                                                                                                                   |  |
| <b>CHECKED BY:</b><br>WSW                                 |  | <b>APPROVED BY:</b><br>WSW                                                                                                                          |  |
| <b>DATE:</b><br>7/12/04                                   |  | <b>DATE:</b><br>7/12/04                                                                                                                             |  |

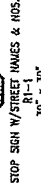
|      |          |
|------|----------|
| DATE | REVISION |
|      |          |
|      |          |
|      |          |



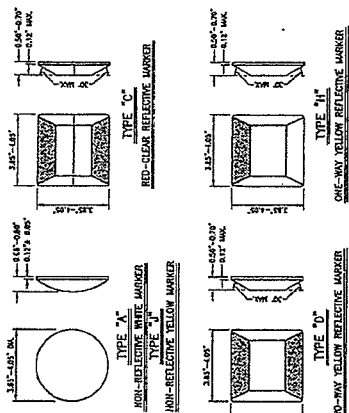






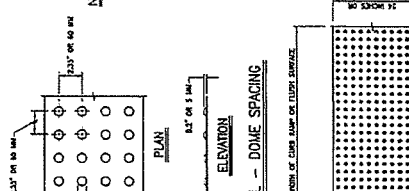


WANTED OUR TRAFFIC SIGNS WILL NOT BE DELAYED.

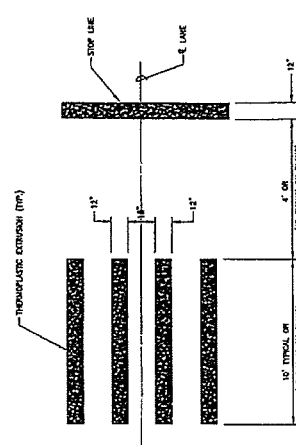


**STEPS OF RDM**

- NOTES:**
- |    |                  |    |                  |    |                        |    |                  |    |                |    |              |
|----|------------------|----|------------------|----|------------------------|----|------------------|----|----------------|----|--------------|
| 1. | SIZE OF THE CURB | 2. | LOCATION OF CURB | 3. | DOMINANT PLANT SPECIES | 4. | DOMINANT SPECIES | 5. | VISUAL QUALITY | 6. | SIZE OF CURB |
|----|------------------|----|------------------|----|------------------------|----|------------------|----|----------------|----|--------------|



### DETAIL - DOME SPACING

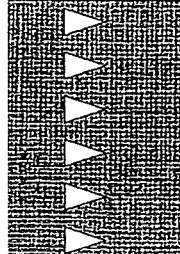


### CROSSWALK STRIPING DETAIL

1. FOR LOCATION OF SCARS AND WARNINGS AT INTERSECTION, SEE INTERSECTION DESIGN.
2. ALL SCARS AND WARNING SIGNS AT INTERSECTION SHALL BE PLACED IN ACCORDANCE WITH THE 1997 EDITION OF TRANSPORTATION TECHNICAL ASSISTANCE MANUAL, NATIONAL HIGHWAY TRANSPORTATION SECURITY ADMINISTRATION PUBLICATION "MANUAL OF STANDARD PRACTICE CRASH REDUCTION FOR STREET AND HIGHWAYS," AND AS INDICATED.
3. ALL CONSTRUCTION WORK AND UTILITIES SHALL COME TO THE SURFACE OF THE ROADWAY PRIOR TO ANY CONSTRUCTION OF THE INTERSECTION. ALL SCARS AND WARNING SIGNS SHALL BE DONE AT THE INTERSECTION. THE CONSTRUCTION SHALL CHECK LAYOUT OF WARNINGS AND SCARS WITH THE SAME OF THOSE PRIOR TO CONSTRUCTION WORK.
4. ALL SCARS AND WARNING SIGNS SHALL BE DONE PRIOR TO CONSTRUCTION OF THE INTERSECTION.
5. ALL SCARS AND WARNING SIGNS SHALL BE DONE PRIOR TO CONSTRUCTION OF THE INTERSECTION.



- 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, FURROWED LANE, PAVING.



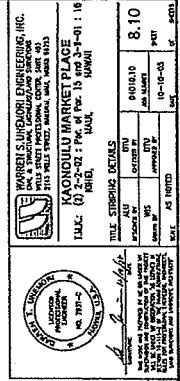
### DETAIL -- YIELD LINE LAYOUT

- GENERAL NOTES**
1. SPREAD SHALL BE PLACED IN THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE, AND STANDARD DRAWING BOOKS, AND AS MODIFIED.
  2. ALL SPREAD SHALL BE MADE OF HIGH PURITY POLYETHYLENE SHEETING MATERIALS.
  3. PAVEMENT WEARING SHALL CONFORM TO DOT STANDARD PLAN 1E-35.
  4. ALL WORK AND MATERIALS REQUIRED TO COMPLETE THE AS PAVED, SOAK, AND WEARWAYS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION 1984.



## PLAN - DOME ALIGNMENT

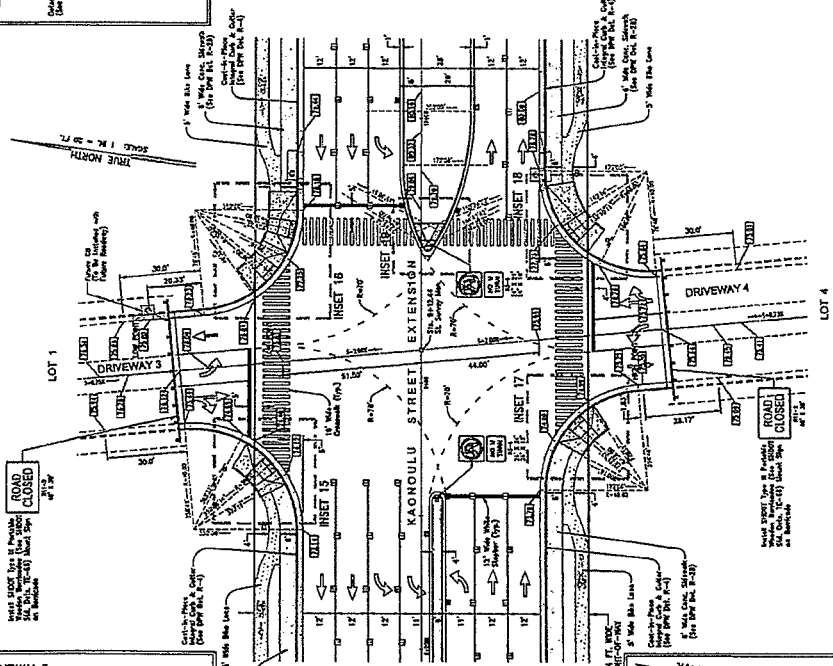
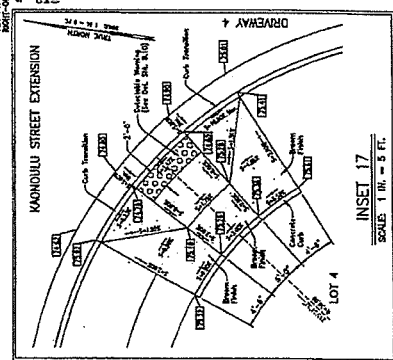
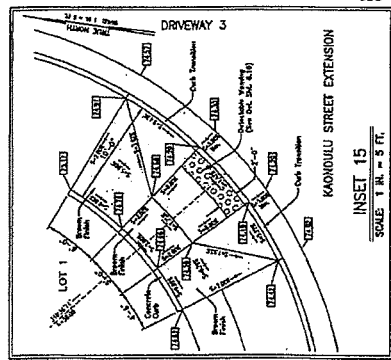
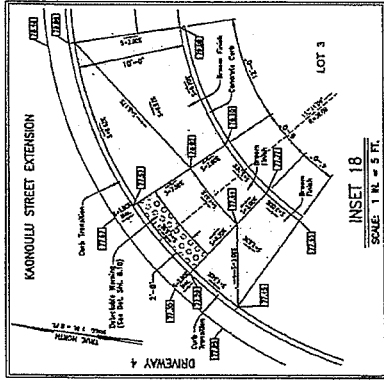
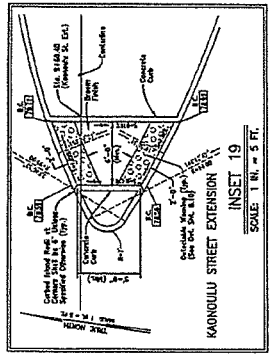
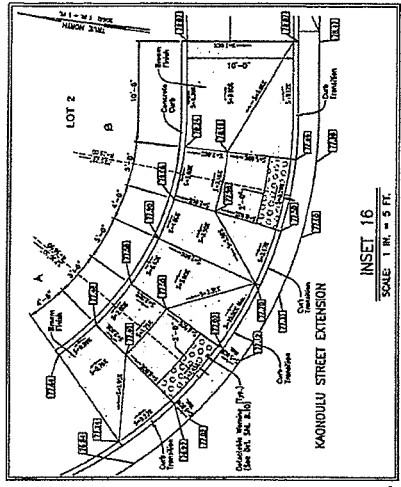
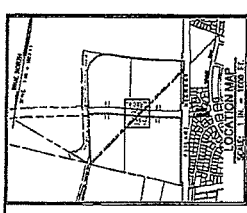
- DETAIL -- DETECTABLE WARNING ON CURB RAMPS

[illegible]









INTERSECTION NO. 2 - KAONO'OLU ST. EXTENSION  
Scale: 1 in. = 20 ft.

NOTES:

1. THE GRADE SHOWN REFLECTS THE EXISTING GRADE. THE GRADE OF THE PROPOSED ROAD SHALL BE AS SHOWN ON THE PLAN. THE GRADE OF THE PROPOSED ROAD SHALL BE AS SHOWN ON THE PLAN. THE GRADE OF THE PROPOSED ROAD SHALL BE AS SHOWN ON THE PLAN.
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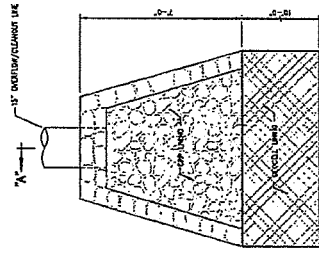
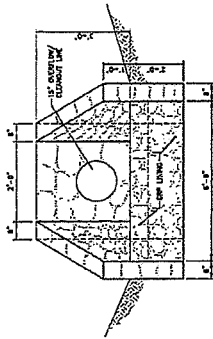
LEGEND:

- 1. DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD.
- 2. DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD.
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- 6. DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD.
- 7. DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD.
- 8. DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD. THE DOTTED LINE SHALL BE USED TO SHOW THE LOCATION OF THE PROPOSED ROAD.

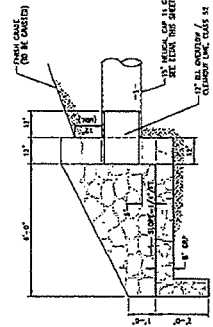
KAONO'OLU ENGINEERING, INC.  
1111 KALANANAKU AVE., SUITE 200  
HONOLULU, HAWAII 96813  
TEL: (808) 531-1111  
FAX: (808) 531-1112

PROJECT NO. 100-100-0000  
DATE: 10/10/00  
SCALE: 1 in. = 20 ft.

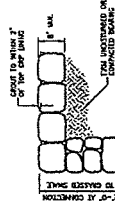




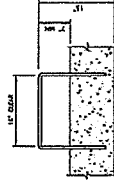
DETAIL - OUTLET STRUCTURE FOR OVERFLOW DRAINLINE  
NOT TO SCALE



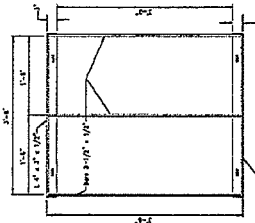
SECTION A-A



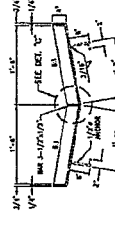
DETAIL - GRP LINING  
NOT TO SCALE



RING DETAIL  
SCALE 1" = 1'-0"

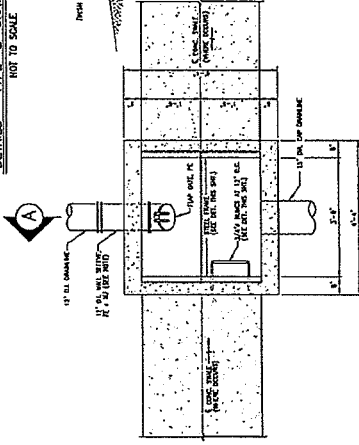


PLAN



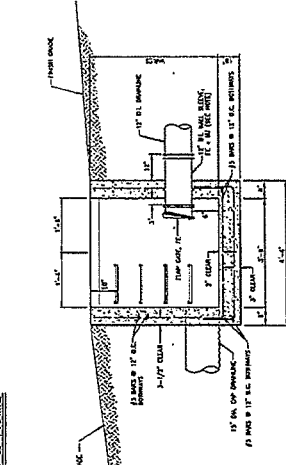
SECTION

DETAILS - TYPE 2 GRATE & FRAME  
NOT TO SCALE

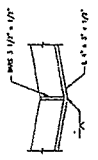


PLAN

DETAILS - GRATED INLET CATCH BASIN AT WATER TANK  
NOT TO SCALE



SECTION



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

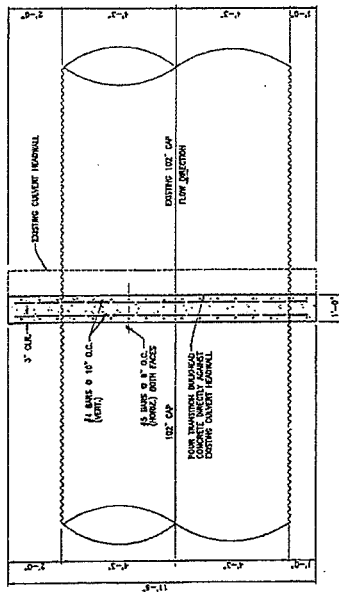
- NOTES:
1. CONCRETE SHALL BE 3000 PSI STRENGTH, FIBER REINFORCED. ALL CONCRETE SHALL BE CAST IN PLACE. ALL CONCRETE SHALL BE CURING PROTECTED. ALL CONCRETE SHALL BE FINISHED TO A FINISH GRADE. ALL CONCRETE SHALL BE FINISHED TO A FINISH GRADE.
  2. ALL STEEL SHALL BE A36 STEEL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL.
  3. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL.
  4. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL.
  5. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL.
  6. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL.
  7. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL. ALL STEEL SHALL BE GALVANNEAL.

WARRIBLE ENGINEERING, INC.  
1001 KALANANU'U BLVD., SUITE 100  
HONOLULU, HAWAII 96813  
TEL: (808) 521-1111 FAX: (808) 521-1112  
WWW.WARRIBLE.COM

PROJECT NO. 10.01  
DATE: 10-15-05  
BY: J. WARRIBLE  
CHECKED BY: J. WARRIBLE  
APPROVED BY: J. WARRIBLE

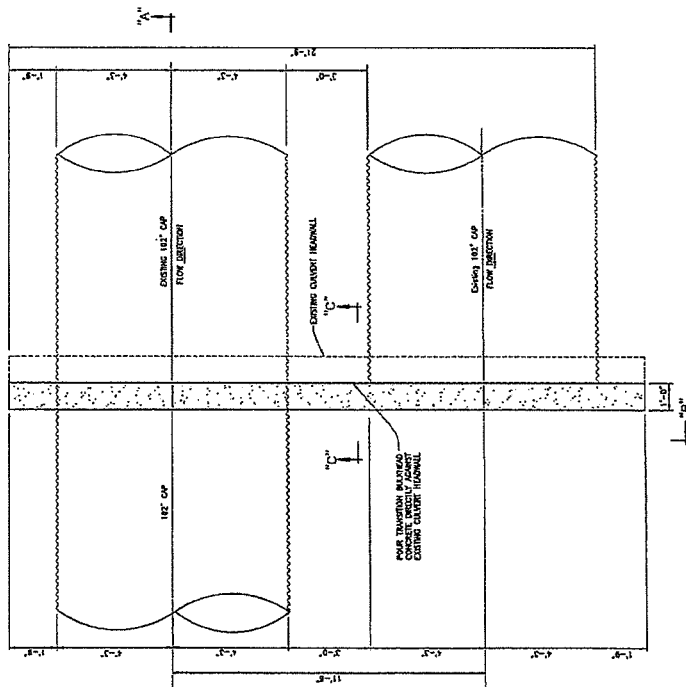
SCALE: 1" = 1'-0"

| NO. | REVISION            | DATE     | BY          | CHKD.       |
|-----|---------------------|----------|-------------|-------------|
| 1   | ISSUED FOR BIDDING  | 10/15/05 | J. WARRIBLE | J. WARRIBLE |
| 2   | REVISED FOR BIDDING | 10/15/05 | J. WARRIBLE | J. WARRIBLE |

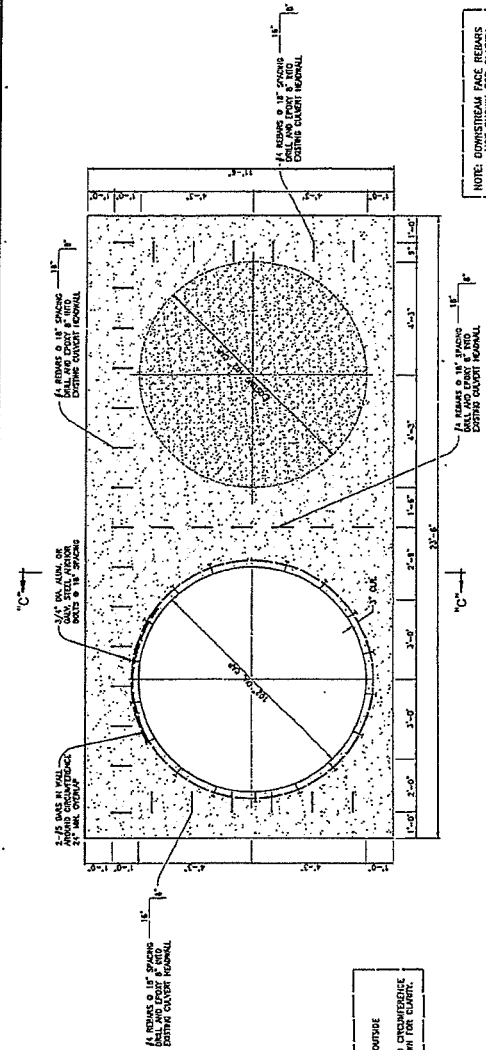


SECTION "A-A" ELEVATION VIEW OF  
TRANSITION BULKHEAD AT STA. (-)0+85±  
SCALE: 1/2" = 1'-0"

- NOTES:
1. HORIZONTAL STEEL IS OUTSIDE
  2. 1/4" BARS SPACING CIRCUMFERENCE OF 102" CAP NOT SHOWN FOR CLARITY.

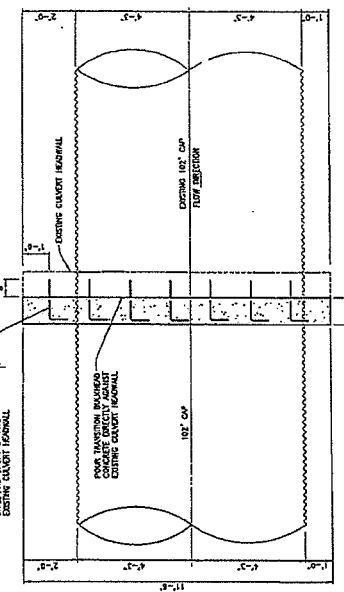


PLAN VIEW OF TRANSITION BULKHEAD AT  
STA. (-)0+85± BETWEEN EXISTING 102" AND 72" CAP  
SCALE: 1/2" = 1'-0"



SECTION "B-B" ELEVATION VIEW OF  
TRANSITION BULKHEAD AT STA. (-)0+85±  
SCALE: 1/2" = 1'-0"

NOTE: DOWNSTREAM FACE REBAR  
NOT SHOWN FOR CLARITY



SECTION "C-C" ELEVATION VIEW OF DOWNSTREAM  
TRANSITION BULKHEAD AT STA. (-)0+85±  
SCALE: 1/2" = 1'-0"

NOTE: HORIZONTAL AND VERTICAL REBAR  
NOT SHOWN FOR CLARITY

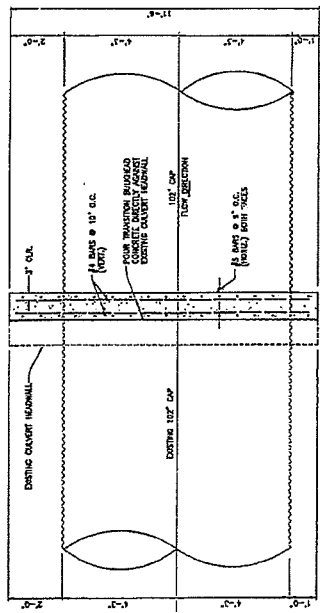
CONCRETE:  $f'_c = 4$  ksi  
REINFORCEMENT: ASTM A615 GRADE 60

3/4" CHAMFER ALL EXPOSED EDGES  
OF CAST-IN-PLACE CONCRETE (TYP.)

WARRER & LUNDQUIST ENGINEERING, INC.  
1000 S. 10TH AVE., SUITE 100  
DENVER, CO 80202  
TEL: 303.733.1111 FAX: 303.733.1112  
WWW.WLENGR.COM

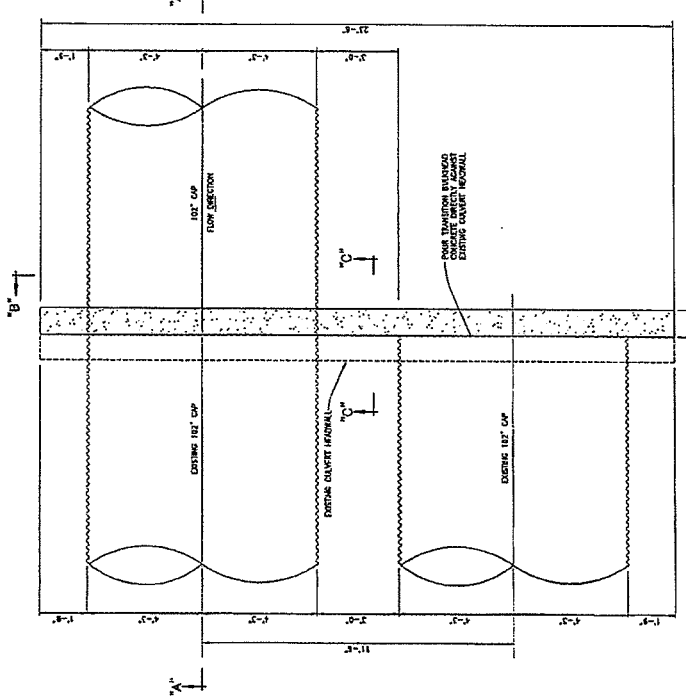
KAONQUILLI MARKET PLACE  
1000 S. 10TH AVE., SUITE 100  
DENVER, CO 80202  
TEL: 303.733.1111 FAX: 303.733.1112  
WWW.WLENGR.COM

TITLE: DRAINAGE DETAILS  
DATE: 12/10/18  
DRAWN BY: JLM  
CHECKED BY: JLM  
APPROVED BY: JLM  
SCALE: AS NOTED  
SHEET: 10.02

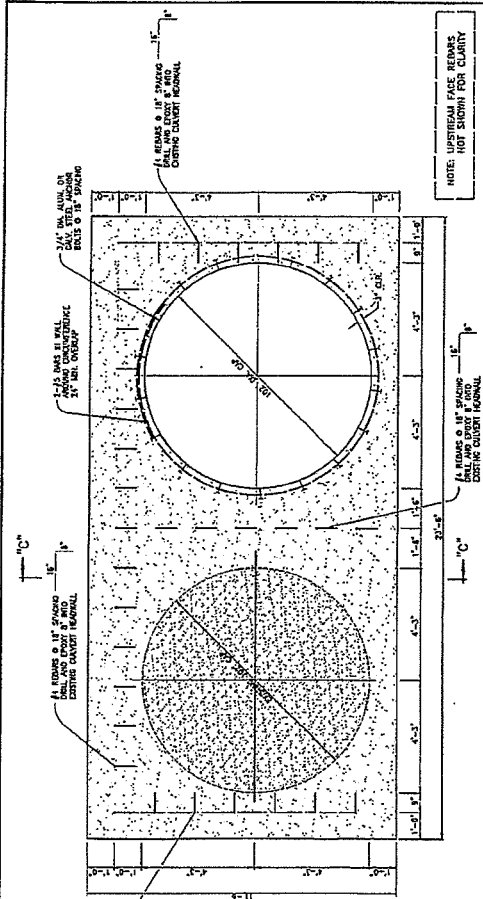


NOTE:  
1. HORIZONTAL STEEL IS OUTSIDE  
2. 2-1/2 REINFORCING BARS ALONG CIRCUMFERENCE  
OF 72\"/>

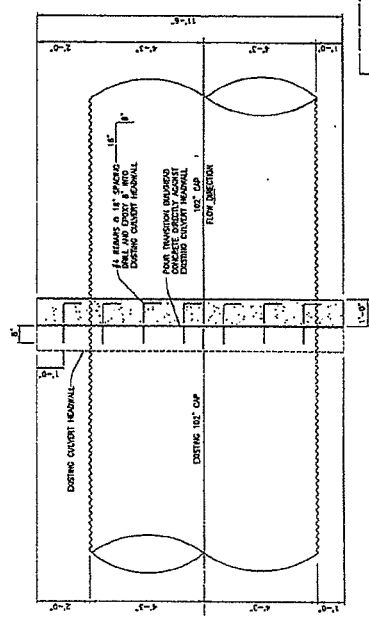
SECTION 'A'-A' ELEVATION VIEW OF  
TRANSITION BULKHEAD AT STA. 0+58.13  
SCALE 1/2\"/>



PLAN VIEW OF TRANSITION BULKHEAD AT STA. 0+58.13  
BETWEEN EXISTING AND PROPOSED 102\"/>



SECTION 'B'-B' ELEVATION VIEW OF  
TRANSITION BULKHEAD AT STA. 0+58.13  
SCALE 1/2\"/>



SECTION 'C'-C' ELEVATION VIEW OF UPSTREAM  
TRANSITION BULKHEAD AT STA. 0+58.13  
SCALE 1/2\"/>

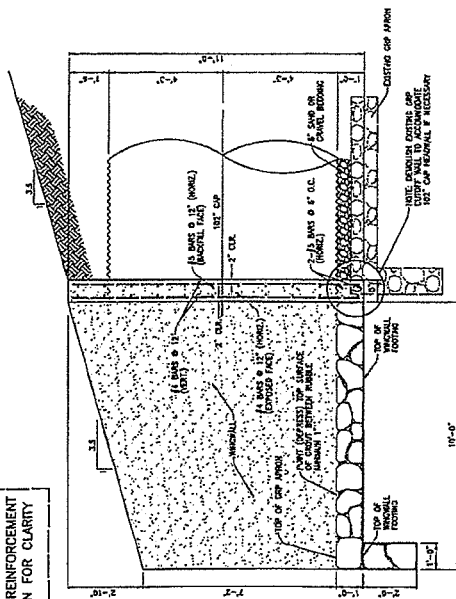
CONCRETE:  $f_c' = 4 \text{ ksi}$   
REINFORCEMENT: ASTM A615 GRADE 80

3/4\"/>

MAHARISHI UNIVERSITY ENGINEERING, INC.  
100 W. 10TH STREET, SUITE 200  
MAHARISHI, MA 01948  
TEL: (508) 253-1234 FAX: (508) 253-1235  
WWW.MUE-INC.COM

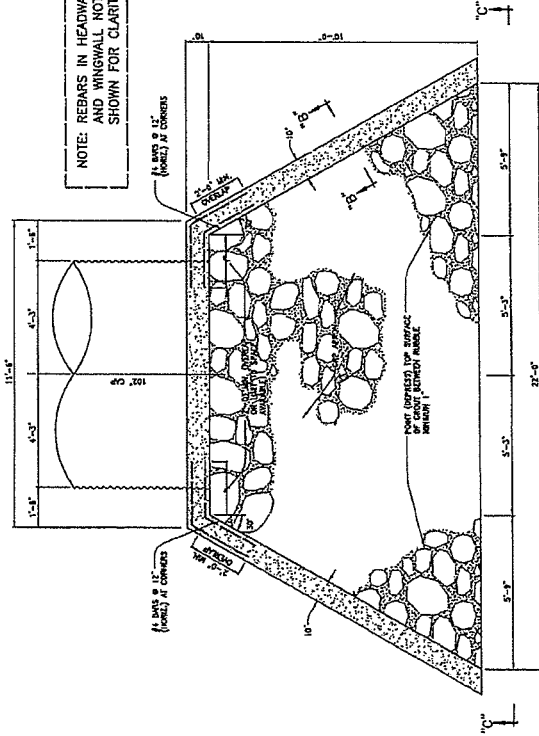
|                          |                         |                |
|--------------------------|-------------------------|----------------|
| PROJECT NO. 04-58.13     |                         | DATE: 10-03-05 |
| DESIGNED BY: [Signature] | CHECKED BY: [Signature] | DATE: 10-18-05 |
| DRAWN BY: [Signature]    |                         | DATE: 10-18-05 |
| SCALE: 1/2\"/>           |                         |                |

NOTE: WINGWALL REINFORCEMENT NOT SHOWN FOR CLARITY

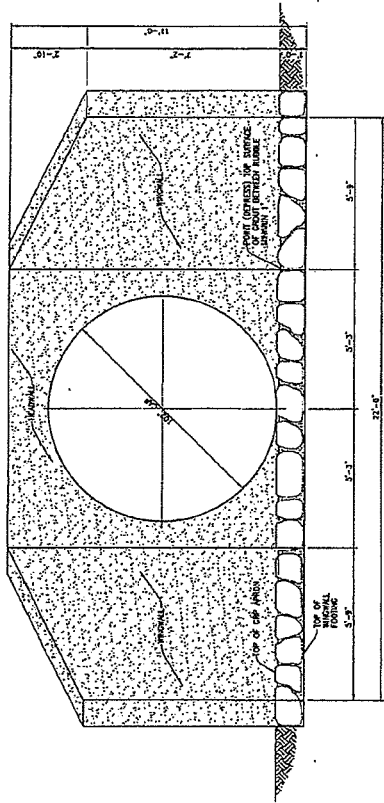


SECTION "A"-A' SIDE ELEVATION VIEW OF WINGWALLS, GRP APRON AND CUTOFF WALL  
SCALE: 1/2" = 1'-0"

NOTE: REBARS IN HEADWALL AND WINGWALL NOT SHOWN FOR CLARITY



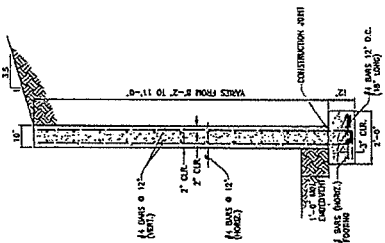
PLAN VIEW OF 72" CAP OUTLET HEADWALL AND WINGWALL AT STA. (-) 0+85.4  
SCALE: 1/2" = 1'-0"



SECTION "C"-C' FRONT ELEVATION VIEW OF 72" CAP OUTLET  
SCALE: 1/2" = 1'-0"

NOTE: GRP APRON AND 1'-0" WIDE x 3'-0" DEEP GRP CUTOFF WALL NOT SHOWN FOR CLARITY

NOTE: 3/4" CHAMFER ALL EXPOSED EDGES OF CAST-IN-PLACE CONCRETE



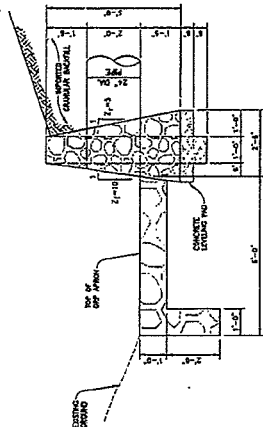
SECTION "B"-B' WINGWALL CROSS-SECTION AND FOOTING  
SCALE: 1/2" = 1'-0"

MORRIS L. ANDERSON ENGINEERING, INC.  
1000 N. GARDEN AVENUE  
ST. LOUIS, MO 63103  
TEL: (314) 123-4567  
FAX: (314) 123-4568  
WWW.MLE-INC.COM

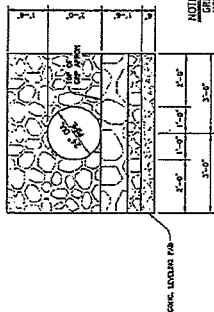
PROJECT: KANSAS MARKET PLACE  
TANK: (1) 2'-0" x 2'-0" x 2'-0" and 2'-0" x 2'-0" x 2'-0"

DATE: 10/04/2010  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED BY: [Signature]

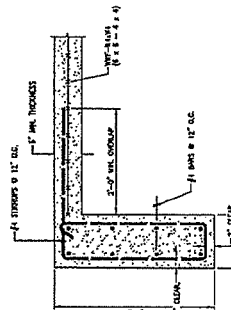
| SHEET NO. |       | SHEET TOTAL |       |
|-----------|-------|-------------|-------|
| 10.04     | 10.04 | 10.04       | 10.04 |



SECTION "A-A"  
SIDE ELEVATION VIEW OF INLET/OUTLET AT 24" CULVERT CROSSING  
SCALE: 1/2" = 1'-0"



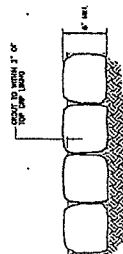
FRONT ELEVATION VIEW OF INLET/OUTLET  
AT 24" CULVERT CROSSING  
SCALE: 1/2" = 1'-0"



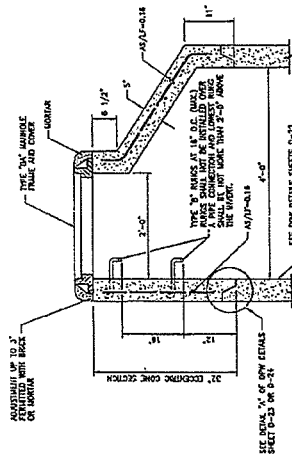
DETAIL -- CONCRETE CUTOFF WALL FOR  
DIVERSION DITCH (STA. D+00)  
SCALE: 1" = 1'-0"

NOTE:  
CONC. CUTOFF WALL FOR DIVERSION DITCH AT STA. D+50 SHALL  
FOLLOW CUTOFF WALL SHOWN ABOVE IN SECTION "A-A" DETAIL.

TOP VIEW OF INLET/OUTLET AT  
24" CULVERT CROSSING  
SCALE: 1/2" = 1'-0"



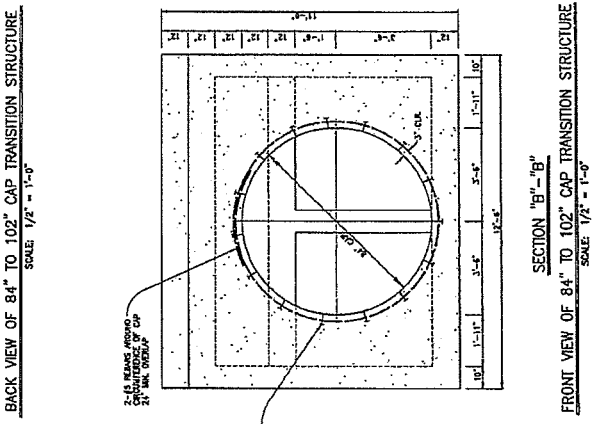
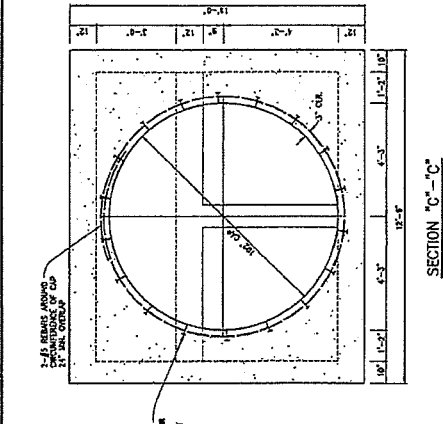
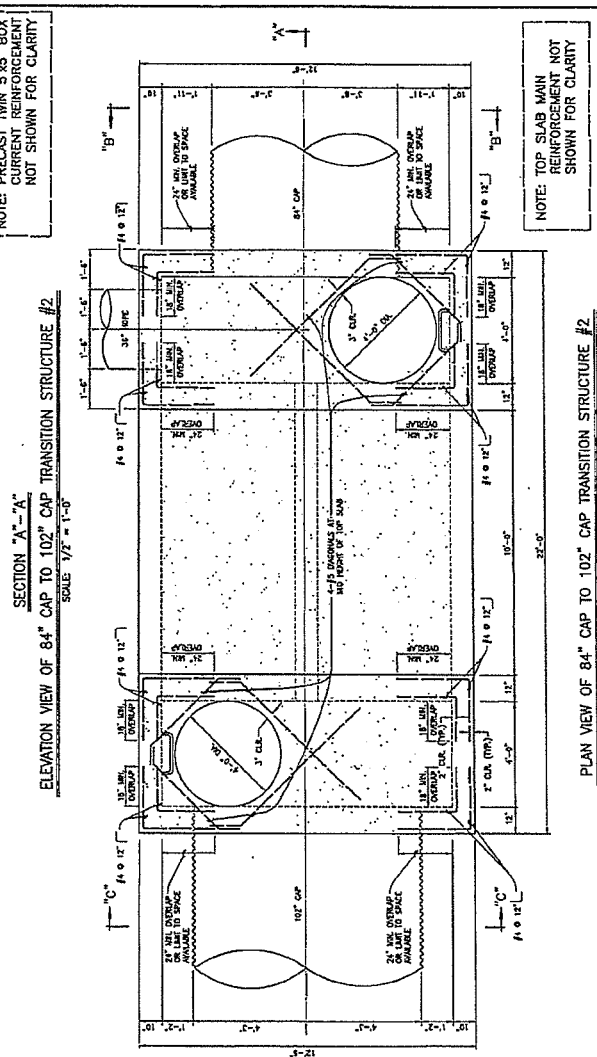
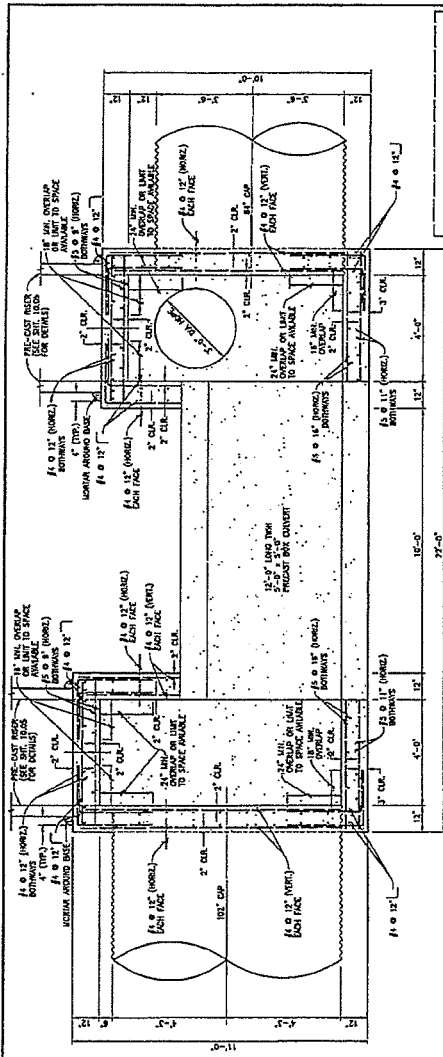
DETAIL -- GRP LINING  
NOT TO SCALE



NOTE:  
CONC. CUTOFF WALL FOR DIVERSION DITCH AT STA. D+50 SHALL  
FOLLOW CUTOFF WALL SHOWN ABOVE IN SECTION "A-A" DETAIL.

△ PRE-CAST CONC. ECCENTRIC DRAIN MANHOLE CONE  
SCALE: 1" = 1'-0"

|                |  |                                                                                                                                 |  |
|----------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|
|                |  | WARREN S. LINDBERG ENGINEERING, INC.<br>10000 MARKET PLACE<br>TUALA, OREGON 97146<br>TEL: (503) 341-1111<br>FAX: (503) 341-1112 |  |
|                |  | PROJECT NO. 10000<br>SHEET NO. 10000                                                                                            |  |
| DATE: 10/10/00 |  | DRAWN BY: J. LINDBERG<br>CHECKED BY: J. LINDBERG<br>APPROVED BY: J. LINDBERG                                                    |  |
| TOTAL: 10.05   |  | SCALE: 1" = 1'-0"                                                                                                               |  |

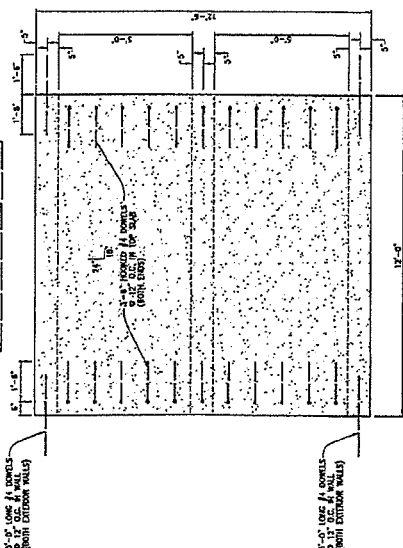


WHEELS & LAMINAR ENGINEERING, INC.  
10000 MARKET PLACE  
KNOXVILLE, TN 37921  
TEL: (615) 401-1111 FAX: (615) 401-1112  
WWW.WHEELS-INC.COM

DATE: 10/11/11  
DRAWN BY: J. L. WHEELS  
CHECKED BY: J. L. WHEELS  
APPROVED BY: J. L. WHEELS  
SCALE: AS SHOWN  
SHEET: 10 OF 10

| NO. | REVISION                | DATE     |
|-----|-------------------------|----------|
| 1   | ISSUED FOR CONSTRUCTION | 10/11/11 |

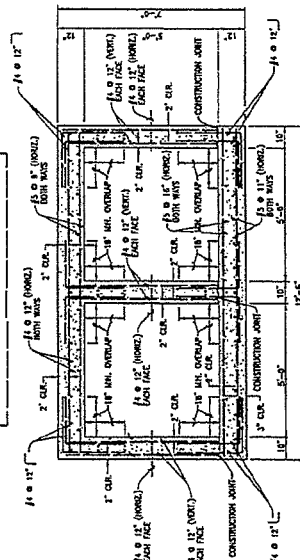
NOTE: TOP SLAB AND WALL REINFORCEMENT NOT SHOWN FOR CLARITY



REBARS FOR PRECAST TWIN 5' x 5' BOX CULVERT TO 84" CAP AND 102" CAP CAST-IN-PLACE VAULTS

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

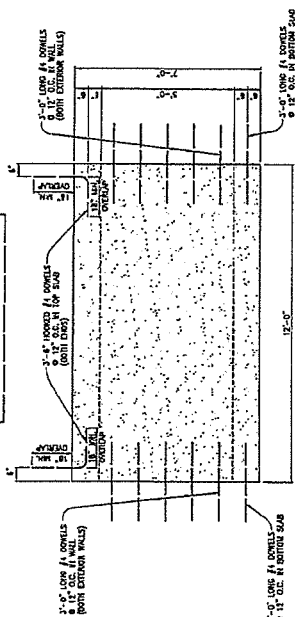
CONCRETE:  $f'_c = 4 \text{ ksi}$   
REINFORCEMENT: ASTM A615 GRADE 60



REBARS IN PRECAST TWIN 5' x 5' BOX CULVERT

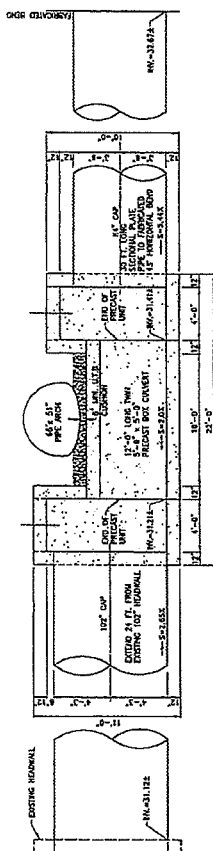
SCALE: 1/2" = 1'-0"

NOTE: TOP SLAB, WALL AND BOTTOM SLAB REINFORCEMENT NOT SHOWN FOR CLARITY



REBARS FOR PRECAST TWIN 5' x 5' BOX CULVERT TO 84" CAP AND 102" CAP CAST-IN-PLACE VAULTS

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

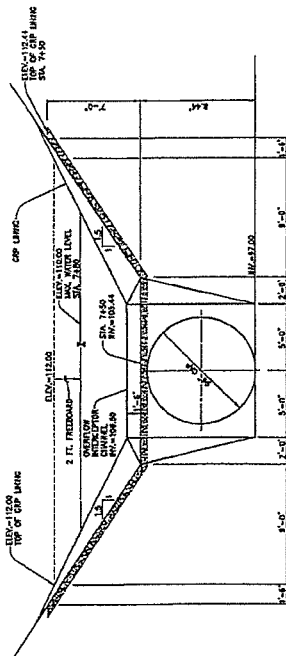


SECTION "A-A"  
ELEVATION VIEW OF 84" CAP TO 102" CAP TRANSITION STRUCTURE #2

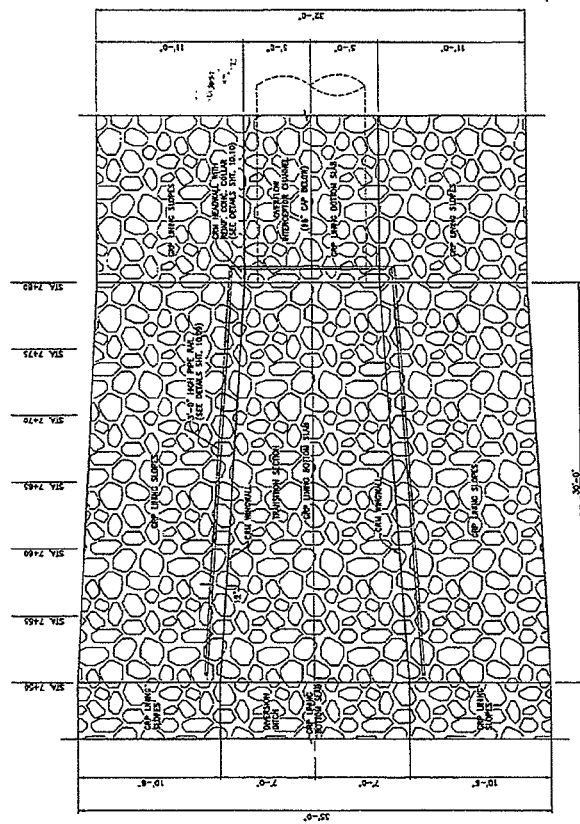
SCALE: 1/2" = 1'-0"

|                     |                      |                                                                                                                                                                             |          |
|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                     |                      | <b>WATKINS ENGINEERING, INC.</b><br>1111 W. HAWTHORNE AVE., SUITE 200<br>ANN ARBOR, MI 48106-1500<br>TEL: (734) 769-1234 FAX: (734) 769-1235<br>WWW.WATKINS-ENGINEERING.COM |          |
| PROJECT NO.         | 2023-001             | DATE                                                                                                                                                                        | 10/07/23 |
| PROJECT NAME        | KAONOLU MARKET PLACE | DESIGNED BY                                                                                                                                                                 | MSL      |
| PROJECT LOCATION    | KAONOLU MARKET PLACE | CHECKED BY                                                                                                                                                                  | MSL      |
| PROJECT DESCRIPTION | KAONOLU MARKET PLACE | IN CHARGE                                                                                                                                                                   | MSL      |
| PROJECT STATUS      | AS NOTED             | DATE                                                                                                                                                                        | 10/07/23 |

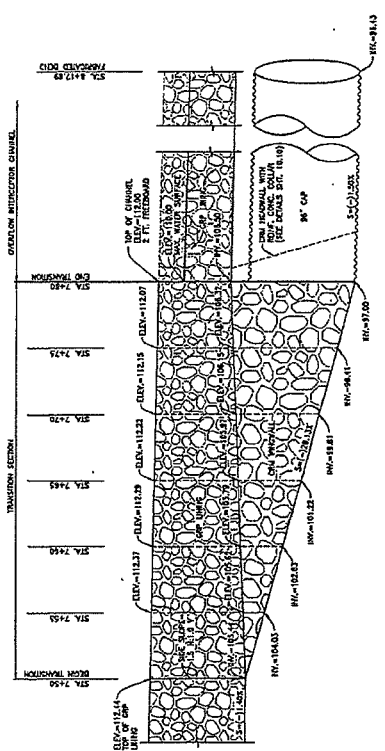
|      |          |
|------|----------|
| DATE | 10/07/23 |
| TIME | 10:07    |



TRANSITION STRUCTURE #1 FROM STA. 7+50 TO STA. 7+80  
SCALE 1/4" = 1'-0"



PLAN VIEW OF TRANSITION STRUCTURE #1  
SCALE 1/4" = 1'-0"

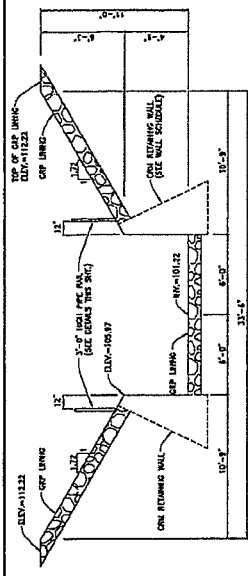


SIDE ELEVATION OF TRANSITION STRUCTURE #1  
SCALE 1/4" = 1'-0"

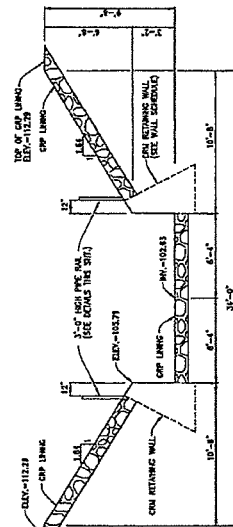
**KARNATI ENGINEERING, INC.**  
KARNATI ENGINEERING, INC.  
KARNATI ENGINEERING, INC.  
KARNATI ENGINEERING, INC.  
KARNATI ENGINEERING, INC.

**KARNATI ENGINEERING, INC.**  
KARNATI ENGINEERING, INC.  
KARNATI ENGINEERING, INC.  
KARNATI ENGINEERING, INC.  
KARNATI ENGINEERING, INC.

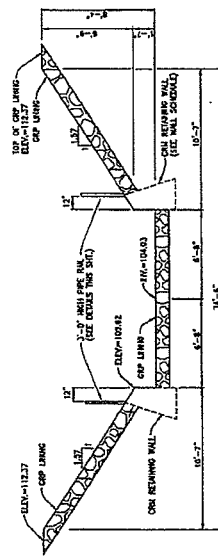
| FILE CHANGE DETAILS |          | DATE |          |
|---------------------|----------|------|----------|
| NO.                 | DATE     | NO.  | DATE     |
| 1                   | 10/10/10 | 2    | 10/10/10 |
| 3                   | 10/10/10 | 4    | 10/10/10 |
| 5                   | 10/10/10 | 6    | 10/10/10 |
| 7                   | 10/10/10 | 8    | 10/10/10 |
| 9                   | 10/10/10 | 10   | 10/10/10 |
| 11                  | 10/10/10 | 12   | 10/10/10 |
| 13                  | 10/10/10 | 14   | 10/10/10 |
| 15                  | 10/10/10 | 16   | 10/10/10 |
| 17                  | 10/10/10 | 18   | 10/10/10 |
| 19                  | 10/10/10 | 20   | 10/10/10 |
| 21                  | 10/10/10 | 22   | 10/10/10 |
| 23                  | 10/10/10 | 24   | 10/10/10 |
| 25                  | 10/10/10 | 26   | 10/10/10 |
| 27                  | 10/10/10 | 28   | 10/10/10 |
| 29                  | 10/10/10 | 30   | 10/10/10 |
| 31                  | 10/10/10 | 32   | 10/10/10 |
| 33                  | 10/10/10 | 34   | 10/10/10 |
| 35                  | 10/10/10 | 36   | 10/10/10 |
| 37                  | 10/10/10 | 38   | 10/10/10 |
| 39                  | 10/10/10 | 40   | 10/10/10 |
| 41                  | 10/10/10 | 42   | 10/10/10 |
| 43                  | 10/10/10 | 44   | 10/10/10 |
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| 47                  | 10/10/10 | 48   | 10/10/10 |
| 49                  | 10/10/10 | 50   | 10/10/10 |
| 51                  | 10/10/10 | 52   | 10/10/10 |
| 53                  | 10/10/10 | 54   | 10/10/10 |
| 55                  | 10/10/10 | 56   | 10/10/10 |
| 57                  | 10/10/10 | 58   | 10/10/10 |
| 59                  | 10/10/10 | 60   | 10/10/10 |
| 61                  | 10/10/10 | 62   | 10/10/10 |
| 63                  | 10/10/10 | 64   | 10/10/10 |
| 65                  | 10/10/10 | 66   | 10/10/10 |
| 67                  | 10/10/10 | 68   | 10/10/10 |
| 69                  | 10/10/10 | 70   | 10/10/10 |
| 71                  | 10/10/10 | 72   | 10/10/10 |
| 73                  | 10/10/10 | 74   | 10/10/10 |
| 75                  | 10/10/10 | 76   | 10/10/10 |
| 77                  | 10/10/10 | 78   | 10/10/10 |
| 79                  | 10/10/10 | 80   | 10/10/10 |
| 81                  | 10/10/10 | 82   | 10/10/10 |
| 83                  | 10/10/10 | 84   | 10/10/10 |
| 85                  | 10/10/10 | 86   | 10/10/10 |
| 87                  | 10/10/10 | 88   | 10/10/10 |
| 89                  | 10/10/10 | 90   | 10/10/10 |
| 91                  | 10/10/10 | 92   | 10/10/10 |
| 93                  | 10/10/10 | 94   | 10/10/10 |
| 95                  | 10/10/10 | 96   | 10/10/10 |
| 97                  | 10/10/10 | 98   | 10/10/10 |
| 99                  | 10/10/10 | 100  | 10/10/10 |



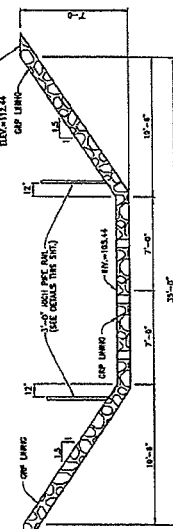
CROSS-SECTION AT STA. 7+65  
SCALE: 1/4" = 1'-0"



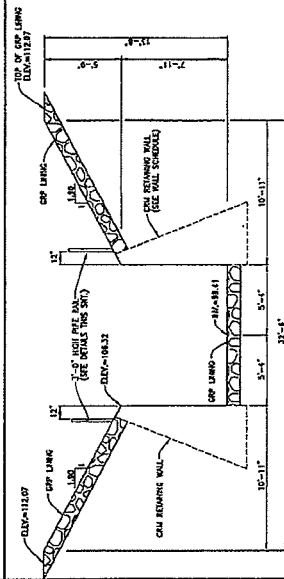
CROSS-SECTION AT STA. 7+60  
SCALE: 1/4" = 1'-0"



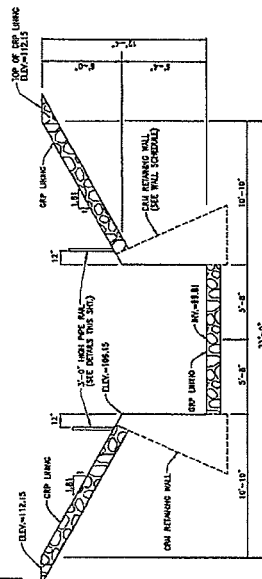
CROSS-SECTION AT STA. 7+55  
SCALE: 1/4" = 1'-0"



CROSS-SECTION AT STA. 7+50  
SCALE: 1/4" = 1'-0"



CROSS-SECTION AT STA. 7+75  
SCALE: 1/4" = 1'-0"

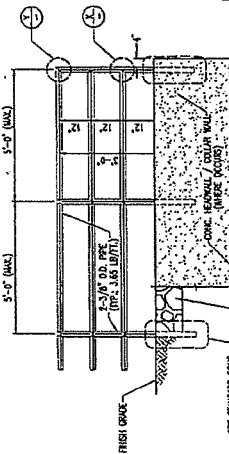


CROSS-SECTION AT STA. 7+70  
SCALE: 1/4" = 1'-0"

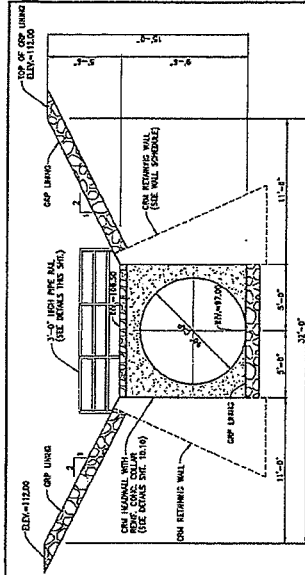


DETAIL (X)  
SCALE: 1/2" = 1'-0"

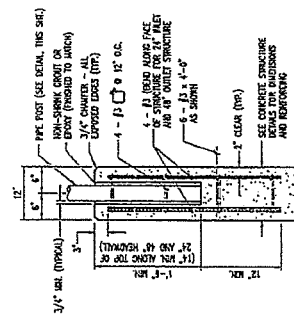
DETAIL (Y)  
SCALE: 1/2" = 1'-0"



DETAIL - PIPE RAIL  
SCALE: 1/2" = 1'-0"



CROSS-SECTION AT STA. 7+80  
SCALE: 1/4" = 1'-0"

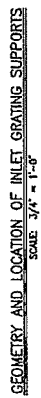
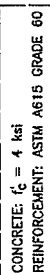


DETAIL - REINF. CONC. POST ANCHOR  
SCALE: 1/2" = 1'-0"

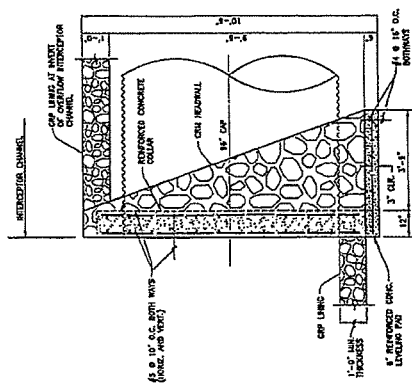
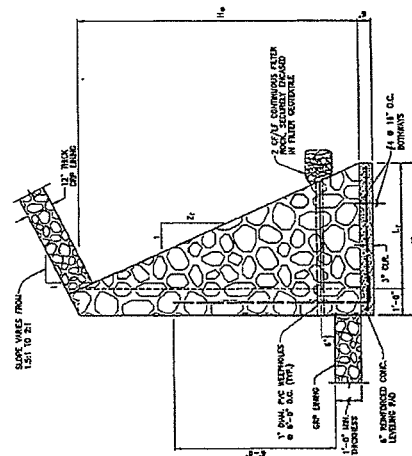
- NOTES:
1. RAILING SHALL BE NOT-APPROVED, EXAMINED AFTER PERSONAL, REPAIR & DAMAGED CHAIRING SHALL BE COMPLETED WITH APPROVED REPAIRING COMPANY.
  2. ALL RAILING SHALL BE INSTALLED AS SHOWN.
  3. ALL RAILING SHALL BE INSTALLED AS SHOWN.
  4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO ORDERING OF MATERIALS.
  5. ALL RAILING SHALL BE INSTALLED AS SHOWN.

WARREN S. LAWRENCE ENGINEERING, INC.  
1000 WEST 10TH STREET  
ALBANY, NY 12206  
TEL: 518-486-1000  
FAX: 518-486-1001  
WWW.WSLENG.COM

PROJECT: KAOHOLIUM MARKET PLACE  
SHEET: 10.09  
DATE: 10-15-24  
BY: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]



| Component | Sta  | Wall Incln, Ho (°) | Backslope | Zr   | Lr      | W       |
|-----------|------|--------------------|-----------|------|---------|---------|
| Wingwall  | 7450 | 0                  | 1.5:1     | N/A  | N/A     | N/A     |
|           | 7455 | 2° - 6°            | 1.57:1    | 2.00 | 1" - 3" | 2' - 3" |
|           | 7460 | 4° - 2°            | 1.64:1    | 1.85 | 2' - 7" | 3' - 7" |
|           | 7465 | 5° - 9°            | 1.72:1    | 1.60 | 3' - 6" | 4' - 8" |
|           | 7470 | 7° - 4°            | 1.81:1    | 1.60 | 4° - 9° | 5' - 8" |
| Bentwall  | 7475 | 8° - 11°           | 1.89:1    | 1.65 | 5' - 6" | 6' - 8" |
|           | 7480 | 10° - 6°           | 2.0:1     | 2.25 | 4° - 9° | 5' - 9" |
|           | 7485 | 10° - 6°           | 2.0:1     | 2.50 | 3° - 9° | 4' - 9" |



CROSS-SECTION OF CRM WINGWALL

CROSS-SECTION OF CRM HEADWALL.

|                                                                                        |                                                                                                                                                          |                    |                 |                        |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------------------|
|     | WARREN S. LUNGEVOGEL ENGINEERING INC.<br>10000 W. 10TH AVE., SUITE 400<br>CHULA VISTA, CALIF. 92011<br>TEL: 619-591-7275, 619-591-7276 FAX: 619-591-7275 |                    |                 |                        |
|                                                                                        | KAOHOLIU MARKET PLACE<br>KHAU, HI 96741<br>(808) 938-5111                                                                                                |                    |                 |                        |
| TITLE: BROADCAST DETAILS                                                               |                                                                                                                                                          |                    |                 |                        |
| ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED<br>DATE 05-18-2001 BY 60322 UCBAW/STP | AUTHORITY<br>50 USC 3024                                                                                                                                 | DATE<br>05-18-2001 | BY<br>UCBAW/STP | 1010<br>PAGE 1<br>OF 1 |
| ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED<br>DATE 05-18-2001 BY 60322 UCBAW/STP | AUTHORITY<br>50 USC 3024                                                                                                                                 | DATE<br>05-18-2001 | BY<br>UCBAW/STP | 1010<br>PAGE 1<br>OF 1 |

DETAIL -- CHANNELIZATION OF  
SMH #A-1 (#K113CC0500)  
NOT TO SCALE

**DETAIL - CHANNELIZATION OF  
SMH #A-2 (#K13CC0600)  
NOT TO SCALE**

DETAIL - CHANNELIZATION OF  
SMH #A-4 (#K113CC0800)  
NOT TO SCALE

DETAIL -- CHANNELIZATION OF  
SMH #A-5 (#K13C00900) 

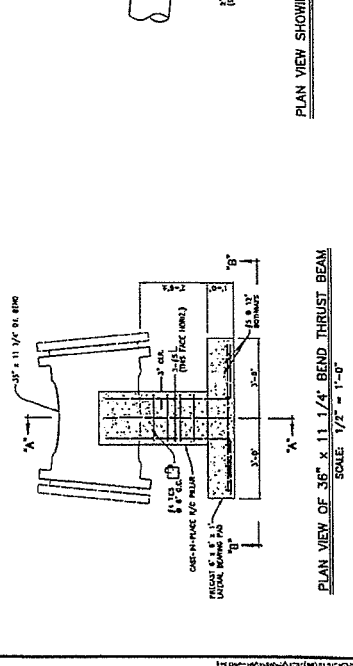
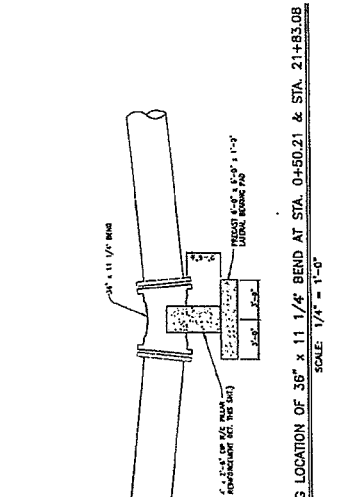
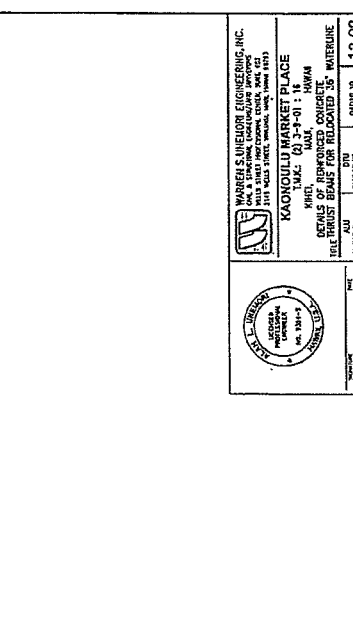
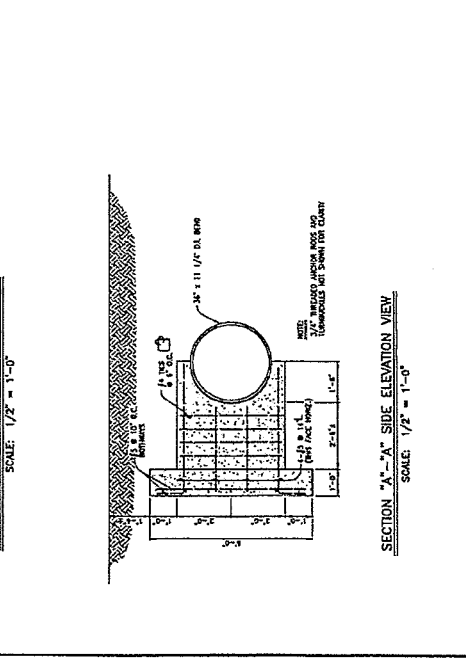
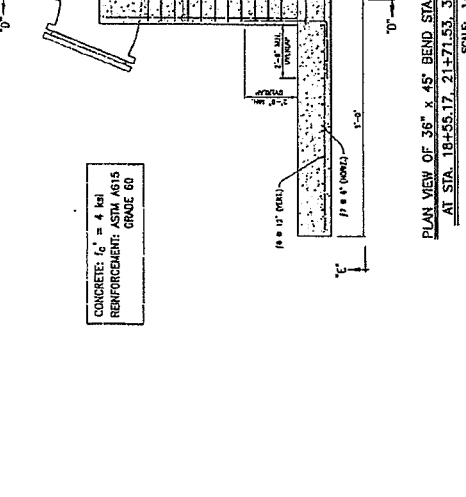
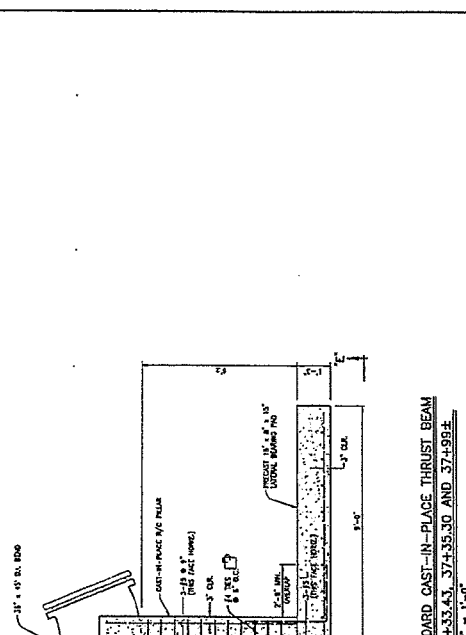
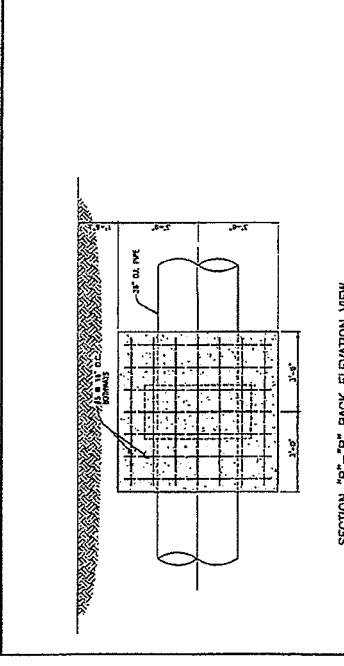
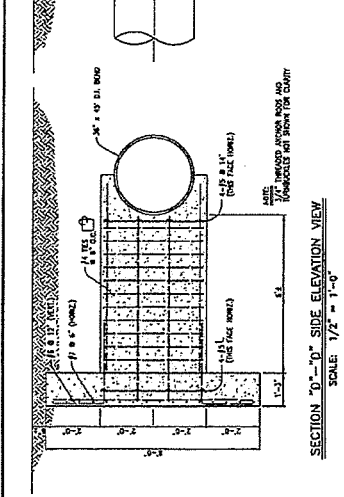
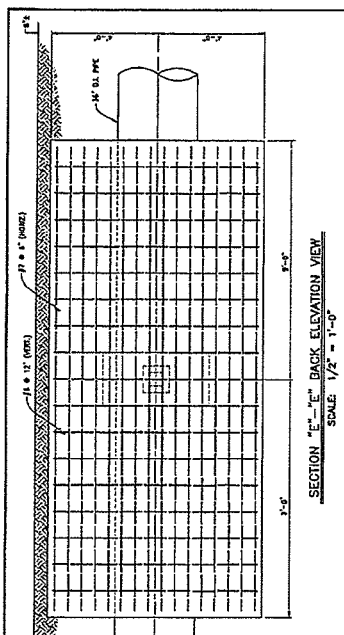
DETAIL - RE-CHANNELIZATION  
OF EXISTING SMH #B-1 (#K113XC0600)  
NOT TO SCALE

- NOTES:**
1. FOR CONNECTION OF NEW EXTERIORS INTO EXISTING WHIMBLE, CONNECTION SHALL USE A-100, X-COLL TIGHT FOLD SLIDE AS INSTALLED BY WALKER WHIMBLES LTD., OR EQUIVALENT. LOCAL INSTALLATION SHALL BE AS RECOMMENDED BY MANUFACTURER.
  2. FOR ALL NEW EXTERIOR / NEW WHIMBLE CONNECTION, CONNECTION SHALL USE A-100, X-COLL TIGHT FOLD SLIDE AS INSTALLED BY WALKER WHIMBLES LTD., OR EQUIVALENT. LOCAL INSTALLATION SHALL BE AS RECOMMENDED BY MANUFACTURERS.

## STANDARD SEWER DETAILS

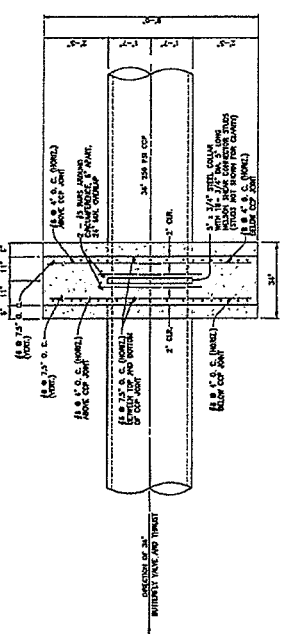
THE FOLLOWING DETAILS AS SHOWN ON "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, STATE OF MAINE", ARE SPECIFICALLY REFERENCED WITHIN THESE PLANS AND SHALL BE CONSIDERED PART OF THE CONSTRUCTION DRAWINGS. (THIS SHALL NOT BE CONSIDERED TO RELIEVE CONTRACTOR FROM COMPLYING WITH ALL PERTINENT PARTS OF THE FOREMENTIONED LIST, STANDARD DETAILS AND STANDARDS.)

| PLATE      | CONDUITS                                | JOINT DETAILS |
|------------|-----------------------------------------|---------------|
| S-4        | LUTALUS                                 |               |
| S-7        | ADVANCE REAR CONNECTION                 |               |
| S-8        | ADVANCE REAR CONNECTION                 |               |
| S-10       | BACK TO DOWN UNWABLE DETAILS            |               |
| S-11, S-12 | UNWABLE NOTES                           |               |
| S-13       | PRE-CAST CONCRETE FLANT UNWABLE         |               |
| S-14       | PRE-CAST CONCRETE FLANT UNWABLE         |               |
| S-16       | PRE-CAST CONCRETE SHALLOW JOINT UNWABLE |               |
| S-17       | PRE-CAST CONCRETE TROUBLE CONE          |               |
| S-21       | UNWABLE DOWN-TYPE IN                    |               |
| S-22       | UNWABLE DOWN-TYPE IN                    |               |
| S-17       | PVC PRE-SECOND RECONSTRUCT              |               |
| S-18       | PVC PRE-SECOND RECONSTRUCT              |               |
| S-18       | PVC PRE-SECOND UNWABLE CONNECTION       |               |

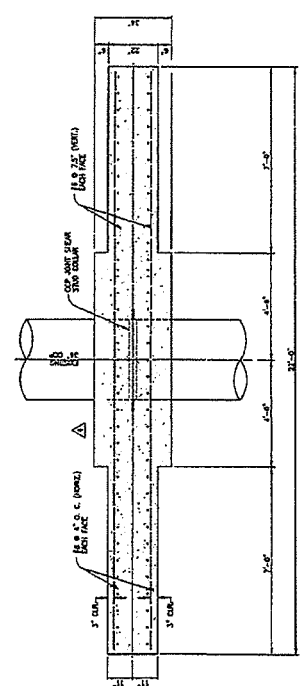


|                                                                                                                                       |  |                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                       |  | <b>WARREN &amp; WHITFORD ENGINEERING, INC.</b><br>1000 N. 10TH AVE., SUITE 100<br>DENVER, CO 80202<br>TEL: 303-733-1111<br>FAX: 303-733-1112     |  |
| <b>KAONOLU MARKET PLACE</b><br>UNIT 100<br>1000 N. 10TH AVE., SUITE 100<br>DENVER, CO 80202<br>TEL: 303-733-1111<br>FAX: 303-733-1112 |  | <b>PROJECT NO.</b> 1000-100<br><b>DATE</b> 10-18-25<br><b>BY</b> JAC<br><b>CHECKED BY</b> JAC<br><b>APPROVED BY</b> JAC<br><b>SCALE</b> AS SHOWN |  |
| <b>REVISIONS</b><br>NO. DESCRIPTION<br>1. 10-18-25                                                                                    |  | <b>12.02</b><br>12.02                                                                                                                            |  |

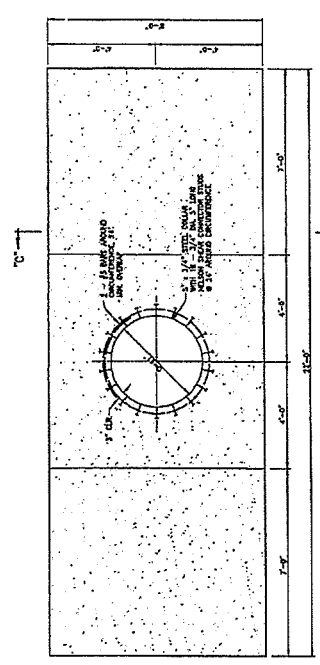




GEOMETRY OF THRUST BEAM FOR 36" BUTTERFLY VALVE

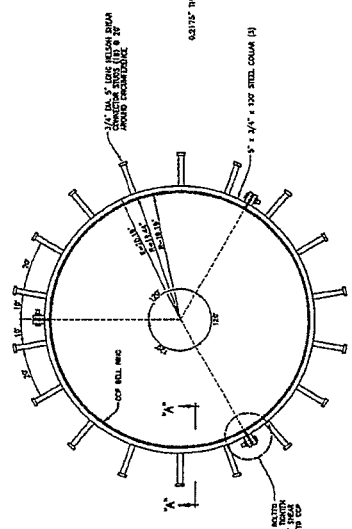


GEOMETRY OF THRUST BEAM FOR 36" BUTTERFLY VALVE

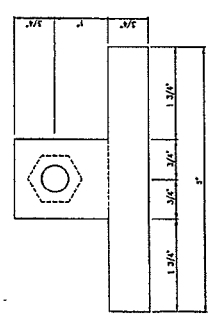


GEOMETRY OF THRUST BEAM FOR 36" BUTTERFLY VALVE

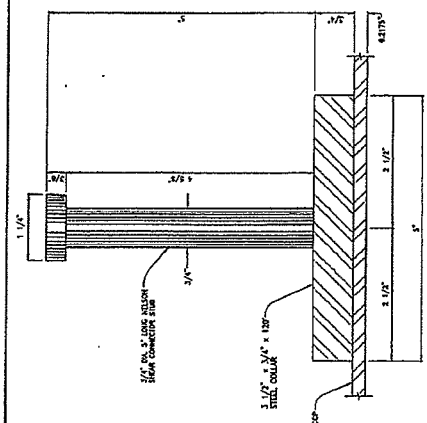
STEEL ASTM A36  
 NELSON SHEAR CONNECTION STUDS  
 ASTM A153 GRADE C-1010 THROUGH C-1020  
 F<sub>y</sub> = 55  
 F<sub>u</sub> = 65  
 E<sub>t</sub> = 51 ksi



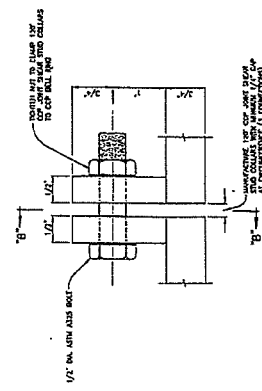
FRONT VIEW OF CCP JOINT SHEAR STUD COLLAR



BOLTED CONNECTION TO TIGHTEN 120" CCP JOINT SHEAR STUD COLLARS TO CCP BARREL



SECTION "A-A" - BOLTED CONNECTION TO TIGHTEN 120" CCP JOINT SHEAR STUD COLLARS TO CCP BARREL

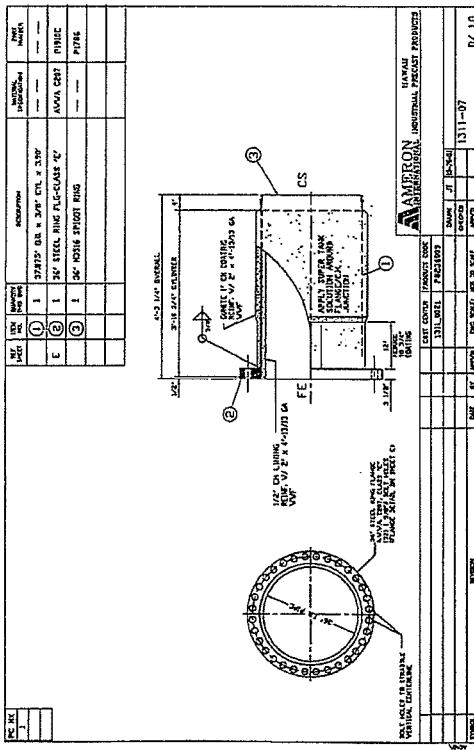


DETAIL "A" - BOLTED CONNECTION TO TIGHTEN 120" CCP JOINT SHEAR STUD COLLARS TO CCP BARREL

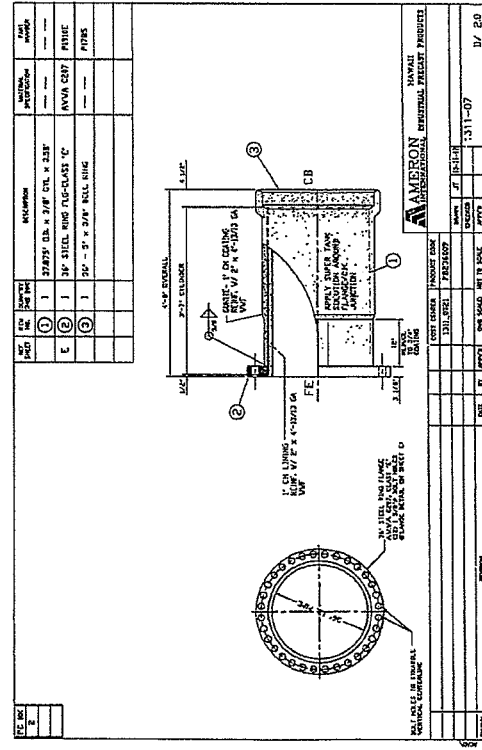
|                                                                                                                                                                        |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                        |                                                                                           |
| WARREN S. MEDURE ENGINEERING, INC.<br>1100 N. LAKE STREET, SUITE 200<br>CHICAGO, ILLINOIS 60610<br>TEL: (312) 462-1100 FAX: (312) 462-1101<br>E-MAIL: WSM@WSMEDURE.COM |                                                                                           |
| DATE: 04/18/19<br>TIME: 10:00 AM<br>PROJECT: 120" CCP JOINT SHEAR STUD COLLARS TO CCP BARREL<br>SHEET: 12.03A                                                          | DRAWN BY: JMM<br>CHECKED BY: JMM<br>APPROVED BY: JMM<br>SCALE: AS NOTED<br>DATE: 04/18/19 |

NOTE: HORIZONTAL AND VERTICAL DIMENSIONS NOT SHOWN FOR CLARITY

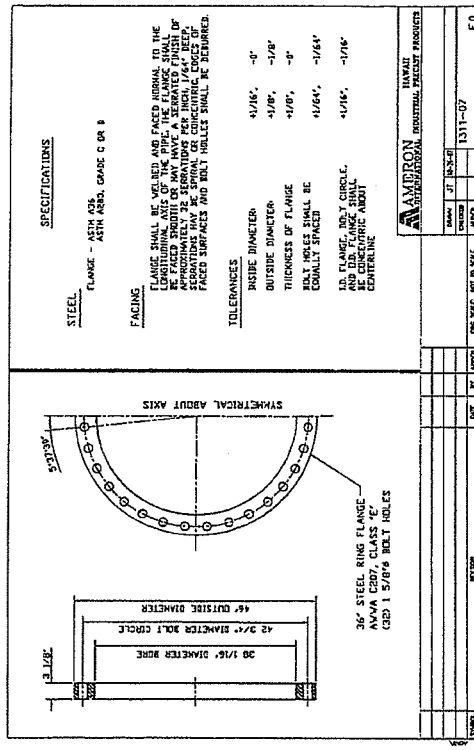
CONCRETE f<sub>c</sub>' = 4 ksi  
 REINFORCEMENT: GRADE 60



36" AMERON CCP X FLANGE ADAPTER - MALE  
NOT TO SCALE



36" AMERON CCP X FLANGE ADAPTER - FEMALE  
NOT TO SCALE



36" AMERON CCP X FLANGE ADAPTER - BOLT PATTERN SPECIFICATIONS  
NOT TO SCALE

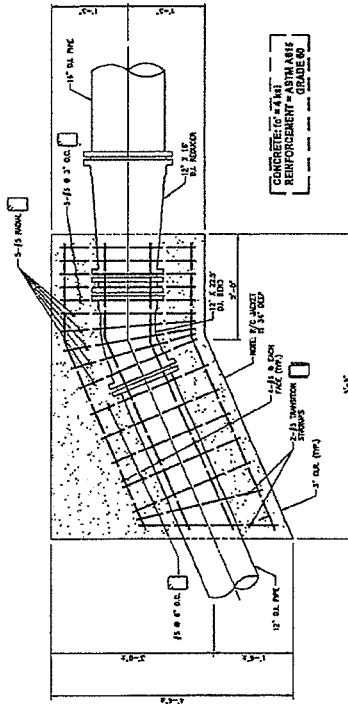
WARREN S. LINDNER ENGINEERING, INC.  
1000 S. KALANAN AVE., SUITE 400  
HONOLULU, HAWAII 96819  
PHONE: (808) 943-1111  
FAX: (808) 943-1112  
WWW.WSLENG.COM

DATE: 10/11/11  
BY: J. LINDNER  
CHECKED BY: J. LINDNER  
APPROVED BY: J. LINDNER  
SCALE: AS SHOWN  
SHEET: 12 OF 12

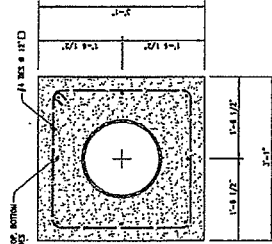
|             |                                 |
|-------------|---------------------------------|
| PROJECT     | 36" AMERON CCP X FLANGE ADAPTER |
| DATE        | 10/11/11                        |
| BY          | J. LINDNER                      |
| CHECKED BY  | J. LINDNER                      |
| APPROVED BY | J. LINDNER                      |
| SCALE       | AS SHOWN                        |
| SHEET       | 12 OF 12                        |





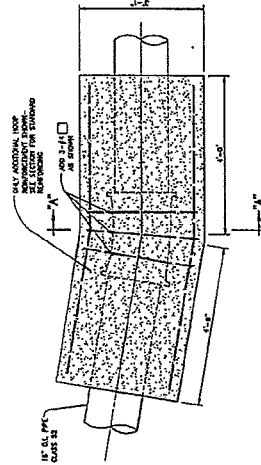


DETAIL FOR HYBRID R/C JACKET SEGMENT  
SCALE: 1" = 1'-0"



SECTION "X-X"

TYPICAL CROSS-SECTION FOR REINFORCED  
CONCRETE JACKET FOR 16" x 11 1/4" BEND  
AT STA. 1+38.74  
SCALE: 1" = 1'-0"



PLAN VIEW OF R/C JACKET AT STA. 1+38.74  
SCALE: 3/4" = 1'-0"

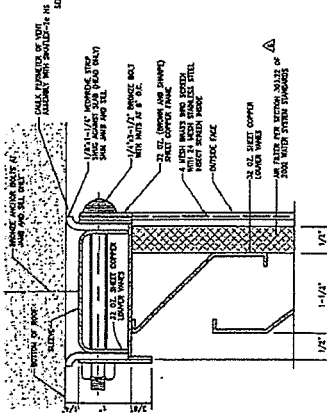
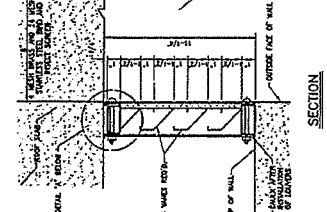
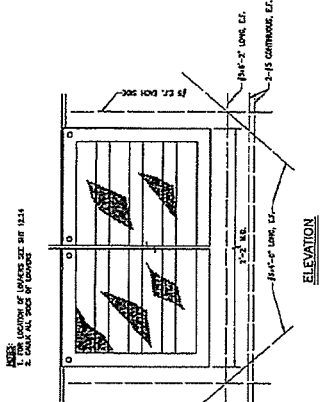
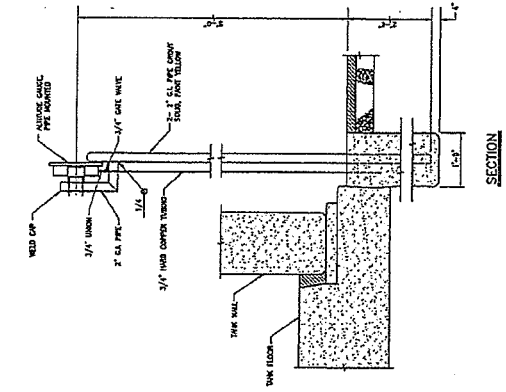
|                                                                          |                          |                                                                                                                    |                     |
|--------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|
|                                                                          |                          | <b>WARREN S. LINEBARGER ENGINEERING, INC.</b><br>100 S. CHANDLER STREET, SUITE 200<br>NEW ORLEANS, LOUISIANA 70112 |                     |
| <b>KACNOULLU MARKET PLACE</b><br>PHASE 2<br>NEW ORLEANS, LOUISIANA 70112 |                          | <b>TITLE: DETAILS - MONITORING CONCRETE JACKET</b>                                                                 |                     |
| PROJECT NO. 10-10-05                                                     | SHEET NO. 12.05          | DATE: 10-10-05                                                                                                     | BY: [Signature]     |
| CHECKED BY: [Signature]                                                  | DESIGNED BY: [Signature] | DRAWN BY: [Signature]                                                                                              | SCALE: 3/4" = 1'-0" |





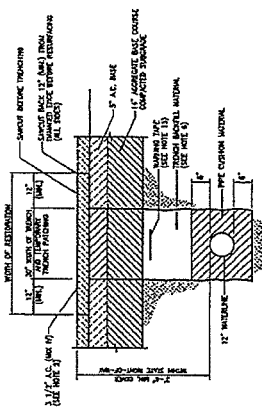




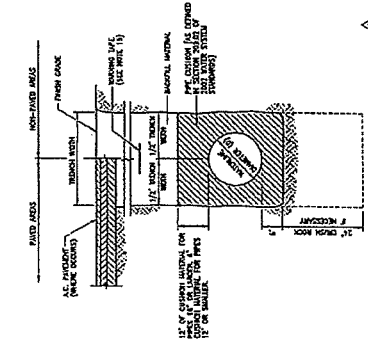


LOUVERS DETAILS  
SCALE: 3/4" = 1 FT. - 0 IN.

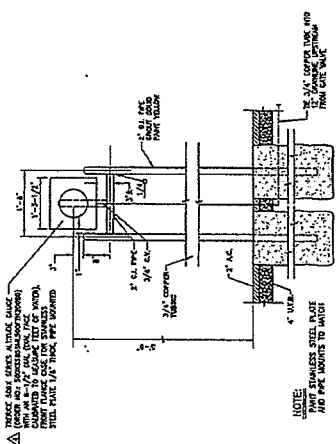
HEAD & JAMB SIMILAR  
DETAIL 'A'  
FULL SIZE



TYPICAL TRENCH SECTION AND PAVEMENT  
RESTORATION SECTION ALONG PULANI HIGHWAY  
NOT TO SCALE



TYPICAL TRENCH EXCAVATION SECTION  
FOR OFFSITE WATERLINES  
NOT TO SCALE

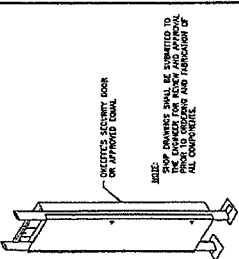


DETAIL - LIQUID LEVEL INDICATOR  
SCALE: 3/4" = 1 FT. - 0 IN.

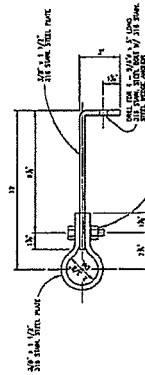
- NOTES:
1. RESTORE TRENCH TO MATCH EXISTING TRENCH SECTION.
  2. MINIMUM THICKNESS OF PAVEMENT: 12" (SEE NOTE 1).
  3. 1/2" (SEE NOTE 1).
  4. 1/2" (SEE NOTE 1).
  5. 1/2" (SEE NOTE 1).
  6. 1/2" (SEE NOTE 1).
  7. 1/2" (SEE NOTE 1).
  8. 1/2" (SEE NOTE 1).
  9. 1/2" (SEE NOTE 1).
  10. 1/2" (SEE NOTE 1).
  11. 1/2" (SEE NOTE 1).
  12. 1/2" (SEE NOTE 1).
  13. 1/2" (SEE NOTE 1).
  14. 1/2" (SEE NOTE 1).
  15. 1/2" (SEE NOTE 1).

WARREN SUNDBORG ENGINEERING, INC.  
1111 11TH STREET, SUITE 100  
KAONOLU MARKET PLACE  
HONOLULU, HAWAII 96813

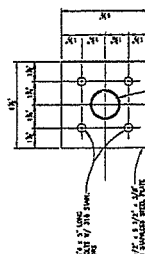
PROJECT NO. 040119  
SHEET NO. 12.12  
DATE 08-10-05  
BY J. S. SUNDORG



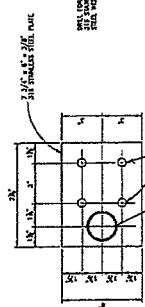
DETAIL - CLUB PRESERVE SECURITY DOOR  
SCALE: 1/2" = 1 FT. - 0 IN.



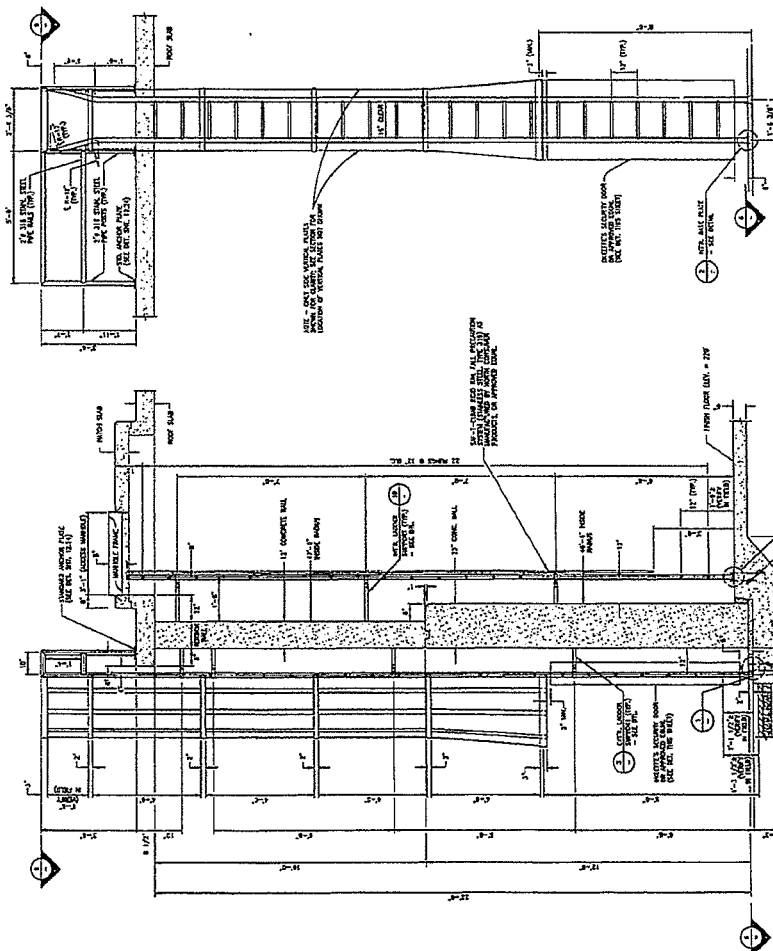
EXTERIOR LADDER SUPPORT  
SCALE: 3 IN. = 1 FT. - 0 IN.



DETAIL - INTERIOR BASE PLATE  
SCALE: 3 IN. = 1 FT. - 0 IN.



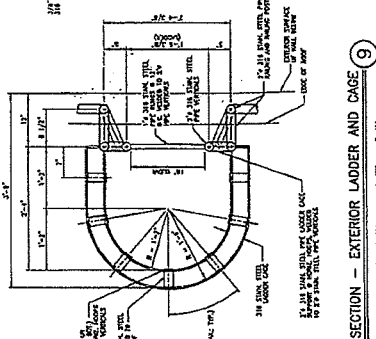
DETAIL - EXTERIOR BASE PLATE  
SCALE: 3 IN. = 1 FT. - 0 IN.



FRONT ELEVATION

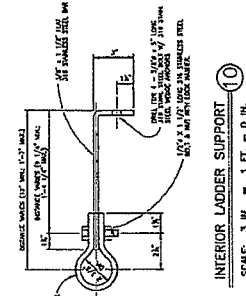
SIDE ELEVATION

SECTION - FOOTING AT EXTERIOR LADDER  
SCALE: 3 IN. = 1 FT. - 0 IN.



SECTION - EXTERIOR LADDER AND CAGE  
SCALE: 1 IN. = 1 FT. - 0 IN.

PLAN - INTERIOR LADDER  
SCALE: 1 1/2" = 1 FT. - 0 IN.



INTERIOR LADDER SUPPORT  
SCALE: 3 IN. = 1 FT. - 0 IN.

- NOTES:
1. ALL DIMENSIONS SHALL BE IN FEET AND INCHES. ALL DIMENSIONS SHALL BE GIVEN IN FEET AND INCHES. ALL DIMENSIONS SHALL BE GIVEN IN FEET AND INCHES.
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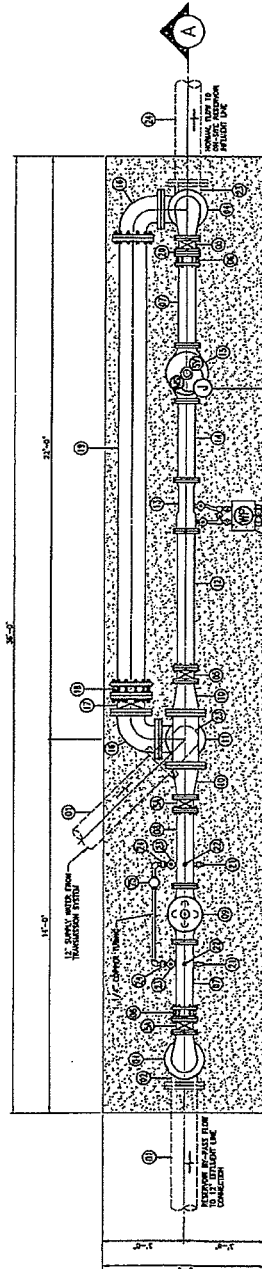
DETAIL - INTERIOR AND EXTERIOR LADDER  
SCALE: 1/2" = 1 FT. - 0 IN.

WARREN SLEIGHT ENGINEERING, INC.  
1000 S. 10TH AVE.  
SUITE 100  
DENVER, CO 80202  
TEL: (303) 733-1111  
FAX: (303) 733-1112  
WWW.WSLEIGHT.COM

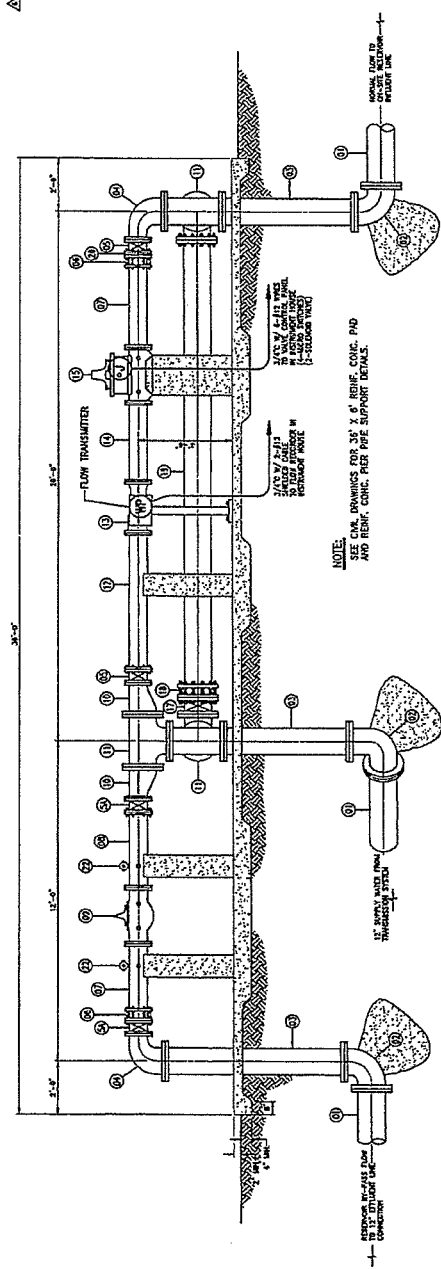
PROJECT: KAGOUHUI MARKET PLACE  
SHEET: 01-10-01  
DATE: 10-10-01  
SCALE: 1/2" = 1 FT. - 0 IN.

DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED BY: [Signature]

12.13



CONTROL VALVE AND PRESSURE REGULATING VALVE PIPING PLAN  
SCALE: 1/2" = 1'-0"



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

REIN. VALVE SETTINGS

| LOCATION                            | TECHNICAL UNIT (UPSTREAM PRESSURE) | ORIFICE (DOWNSTREAM PRESSURE SETTING) |
|-------------------------------------|------------------------------------|---------------------------------------|
| PRV @ Sta. 43+32.5 of Office Window | 110 psd                            | 1 1/4" FN (on-1/4" bleed to 5 psd)    |
|                                     |                                    | 2 psd                                 |

| LOCATION                                      | INSTALLED ELEVATION | SUSTAINING PRESSURE |
|-----------------------------------------------|---------------------|---------------------|
| Control Valve @ Sta. 43+32.5 of Office Window | 219 ft.             | 75 psd              |

| ITEM | QTY. | DESCRIPTION                                                                  |
|------|------|------------------------------------------------------------------------------|
| 01   | 3    | 12" FE-PE PIPE, 2'-0" LONG                                                   |
| 02   | 3    | 12" FL. 90° BEND W/ CONC. BLOCK                                              |
| 03   | 3    | 12" FL. PIPE, LENGTH TO FIT                                                  |
| 04   | 2    | 12" X 8" FL. RED W/ 800, 12" C-F                                             |
| 05   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD                                           |
| 06   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 07   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 08   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 09   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 10   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 11   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 12   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 13   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 14   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
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| 20   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
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| 23   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 24   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |
| 25   | 2    | 8" FL. GATE VALVE, INS W/ HANDHELD (TO REMAIN CLOSED UNDER NORMAL OPERATION) |

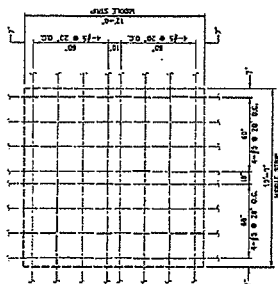
NOTE:  
ALL FLANGES AND FITTINGS SHALL BE DUCTILE IRON, RATED FOR ALL PRESSURES AND TEMPERATURES. ALL FITTINGS SHALL BE DUCTILE IRON, RATED FOR ALL PRESSURES AND TEMPERATURES. ALL FITTINGS SHALL BE DUCTILE IRON, RATED FOR ALL PRESSURES AND TEMPERATURES.

WARREN SUNDT ENGINEERING INC.  
1000 S. 10TH AVE.  
SUITE 100  
DENVER, CO 80202  
TEL: 303.733.1111  
FAX: 303.733.1112  
WWW.WS-ENG.COM

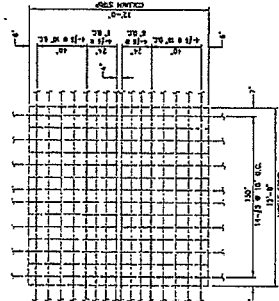
KAORU M. KATO  
PROFESSIONAL ENGINEER  
NO. 10000  
STATE OF COLORADO

PROJECT: CONTROL VALVE  
SHEET: 12.14  
DATE: 12/12/04  
BY: J. K.  
CHECKED: J. K.  
APPROVED: J. K.

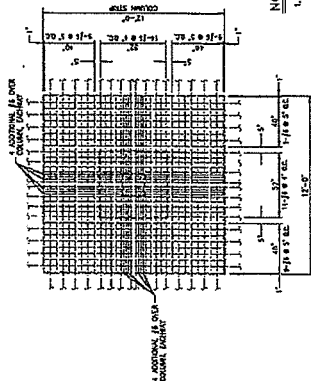




MIDDLE STRIP / MIDDLE STRIP  
NOT TO SCALE

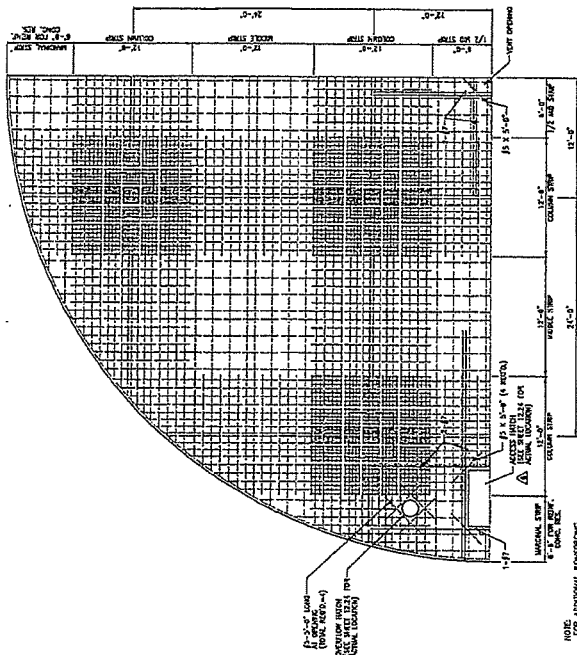


COLUMN STRIP / MIDDLE STRIP  
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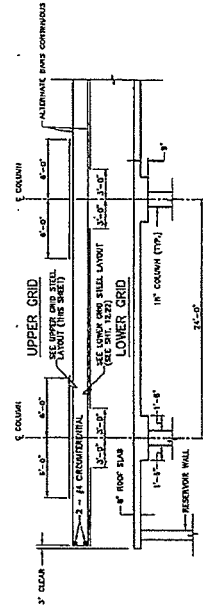


COLUMN STRIP / COLUMN STRIP  
NOT TO SCALE

UPPER GRID STEEL LAYOUT  
NOT TO SCALE



1/4 PLAN ROOF STEEL - UPPER GRID  
SCALE: 3/16 IN. = 1 FT. = 0 IN.

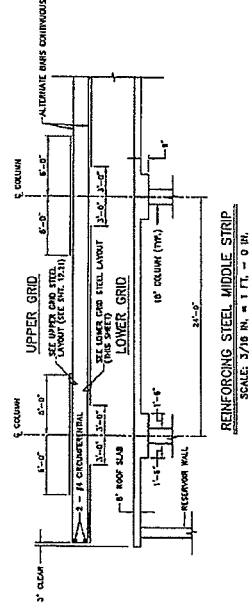
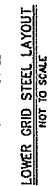


REINFORCING STEEL COLUMN STRIP  
SCALE: 3/16 IN. = 1 FT. = 0 IN.

- NOTES:
1. REINFORCE LOWER OVER REINFORCING STEEL.
  2. ALL REINFORCEMENT SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.
  3. ALL REINFORCEMENT SHALL BE LAPPED WITHIN THE COLUMN.
  4. ALL LAPS OF REINFORCEMENT SHALL BE MADE IN THE COLUMN.

WARREN & LANGLOIS ENGINEERING, INC.  
1000 N. 10TH AVE., SUITE 100  
DENVER, CO 80202  
TEL: 303-733-1111  
FAX: 303-733-1112

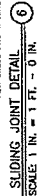
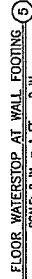
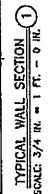
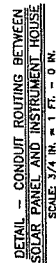
PROJECT: KAONGULU MARKET PLACE  
SHEET: 12.21  
DATE: 10-10-15  
BY: JLD  
CHECKED BY: JLD  
APPROVED BY: JLD



**NOTES:**

1. CONCRETE COVER OVER REINFORCING STEEL IN ROOF SLAB:
2. ALL ROOF SLAB REINFORCING STEEL IN THE UPPER CHORD SHALL BE LAPTED WITHIN THE MIDDLE CHORD AND THE LOWER CHORD SHALL BE LAPTED WITHIN THE COLUMN STEEL.
3. ALL COPS ON THE SAME PLANE, SHALL BE SPACED 40 DIAMETERS.

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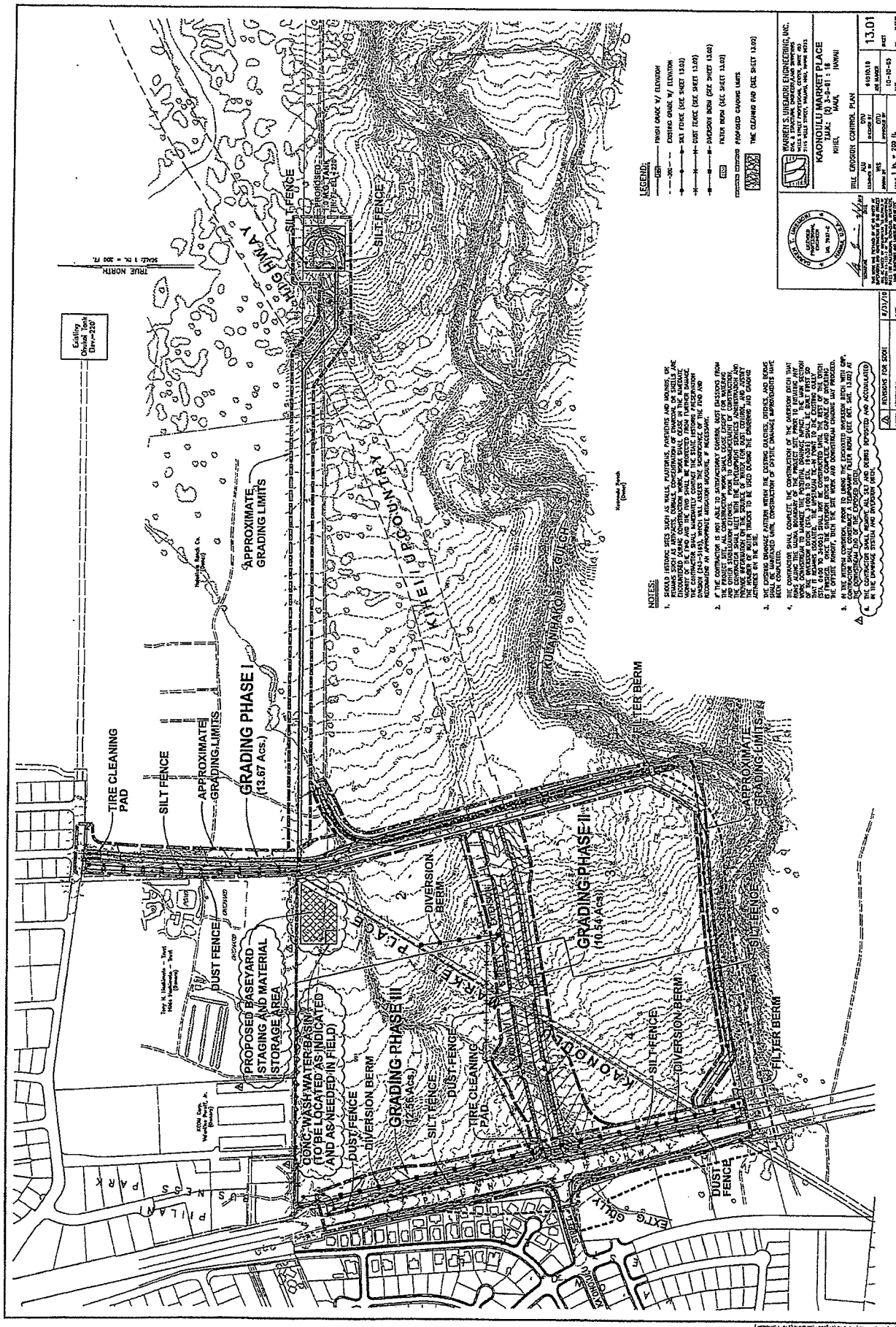


|                                                                                                                                                                                                |                                                                                                                                    |  |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|
| <br><b>W. H. LINDSEY &amp; SONS, INC.</b><br>1000 MARKET PLACE<br>TAMPA, FLORIDA 33601<br>TEL. 813-241-1111 | <b>MARKET'S LUMBER &amp; CONCRETE, INC.</b><br>254 W. HAZARD, LUMBERLAND, MISSISSIPPI<br>39093<br>601-725-2222<br>FAX 601-725-2222 |  | 12.23.93<br>12/23/93 |
|                                                                                                                                                                                                | ALLIANCE TRADING COMPANY, LLC<br>1000 MARKET PLACE<br>TAMPA, FLORIDA 33601<br>TEL. 813-241-1111                                    |  | 12/23/93<br>12/23/93 |

1. CHAMFER TO BE  $3/4"$  UNLESS SHOWN OTHERWISE.
2. STEEL LAYOUT IS DIMENSIONS ONLY & VERTICALS SHALL BE IN THE SAME PLANE WITH HOOD SUPPORTS.

|          |                              |  |
|----------|------------------------------|--|
| 10/01/12 | ADDED COMPAR FOUNTING DETAIL |  |
|----------|------------------------------|--|

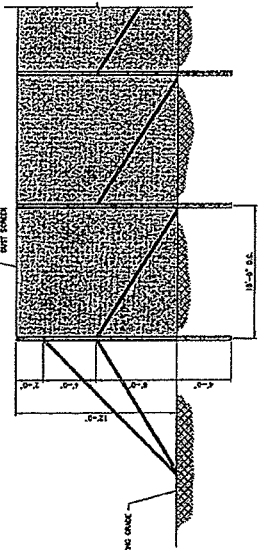




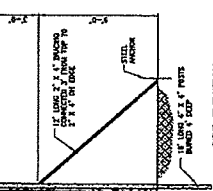
# BEST MANAGEMENT PRACTICES

## 1. EROSION AND SEDIMENT CONTROL PRACTICES

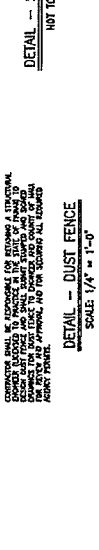
- A. CONSTRUCTION ACTIVITIES SHALL BE PLANNED AS TO MINIMIZE EROSION AND SEDIMENTATION. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- B. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- C. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
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- E. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
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- K. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
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- N. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
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- R. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- S. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- T. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- U. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- V. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- W. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- X. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- Y. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- Z. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.



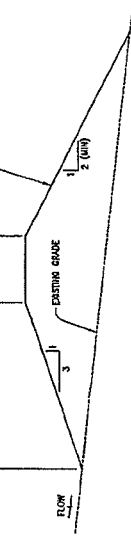
DETAIL - DIVERSION BERM



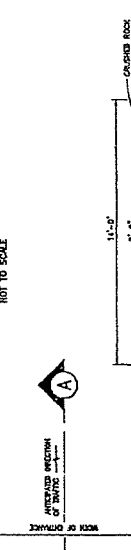
DETAIL - FILTER BERM



DETAIL - CROSS / DIVERSION BERM



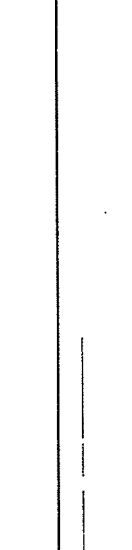
DETAIL - DUST FENCE



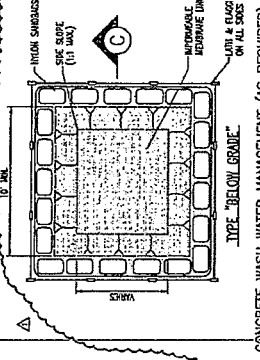
DETAIL - CURB INLET PROTECTION



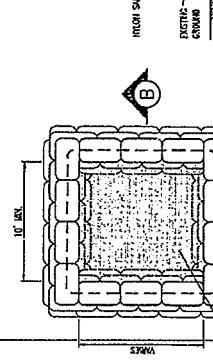
DETAIL - "DANDY POP" INLET PROTECTION SYSTEM



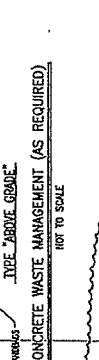
DETAIL - TIRE CLEANING PAD



DETAIL - CONCRETE WASH WATER MANAGEMENT (AS REQUIRED)



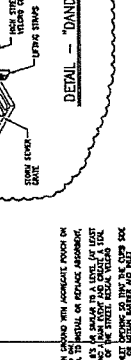
DETAIL - TYPE "B" WASTE MANAGEMENT (AS REQUIRED)



DETAIL - TYPE "C" WASTE MANAGEMENT (AS REQUIRED)



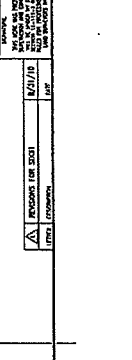
DETAIL - SILT FENCE



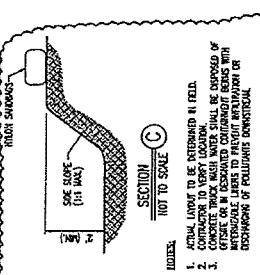
DETAIL - SILT FENCE



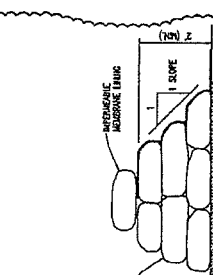
DETAIL - SILT FENCE



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DETAIL - SILT FENCE



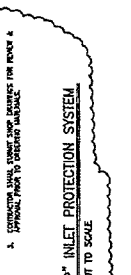
DETAIL - SILT FENCE



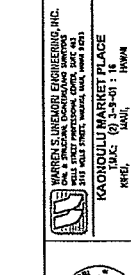
DETAIL - SILT FENCE



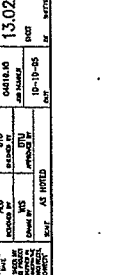
DETAIL - SILT FENCE



DETAIL - SILT FENCE



DETAIL - SILT FENCE

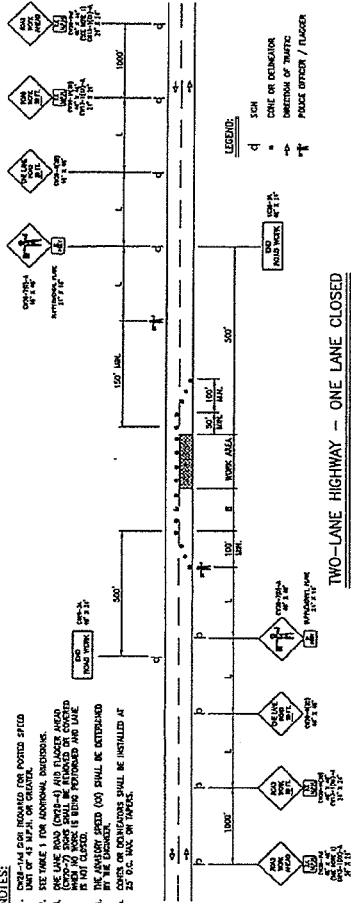


DETAIL - SILT FENCE

|                                                                                                                                                                       |                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       |                                                                                                   |
| <b>WARREN'S LANDMARK ENGINEERING, INC.</b><br>10000 KENNESAW BLVD., SUITE 100<br>KENNESAW, GA 30144<br>(770) 413-1111<br>FAX (770) 413-1112<br>WWW.WARENSLANDMARK.COM |                                                                                                   |
| PROJECT NO. 13.02<br>SHEET NO. 13.02                                                                                                                                  | DATE: 10/10/10<br>DRAWN BY: J. H. HARRIS<br>CHECKED BY: J. H. HARRIS<br>APPROVED BY: J. H. HARRIS |

|                                                     |                |
|-----------------------------------------------------|----------------|
| EROSION CONTROL NOTES AND DETAILS<br>13.02<br>13.02 | 13.02<br>13.02 |
|-----------------------------------------------------|----------------|

- NOTES:**
1. ALL SIGNS INDICATED FOR POSTED SPEED LIMIT OF 45 MPH OR GREATER.
  2. SEE TABLE 1 FOR ADDITIONAL DIMENSIONS.
  3. ONE LANE ROAD (LEFT-45) AND FLASHER ADVANCE WARNING SIGNS SHALL BE INSTALLED AND MAINTAINED IN PLACE UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  4. THE ADVANCE SPEED (45) SHALL BE EXTENDED BY THE LENGTH.
  5. CLOSURE OF TRAVEL LANE SHALL BE INSTALLED AT 50' FROM WORK AREA.



**TWO-LANE HIGHWAY - ONE LANE CLOSED**

**FIGURE 1 - TRAFFIC CONTROL PLAN**

**TABLE 1 FOR TRAFFIC CONTROL PLAN**

| POSTED SPEED<br>LIMIT (MPH) | SPEED ZONE<br>(FEET) | TRAFFIC LANE<br>(W x L)<br>OR 155' (W x L) | LONGITUDINAL<br>SPACING (FEET) |           | TRAFFIC<br>THICKNESS | WORK AREA<br>THICKNESS |
|-----------------------------|----------------------|--------------------------------------------|--------------------------------|-----------|----------------------|------------------------|
|                             |                      |                                            | TRAFFIC LANE                   | WORK AREA |                      |                        |
| 25                          | 250                  | 200                                        | W x 17                         | 35        | 20                   | 25                     |
| 30                          | 300                  | 200                                        | W x 17                         | 35        | 20                   | 25                     |
| 35                          | 350                  | 200                                        | W x 20                         | 45        | 30                   | 35                     |
| 40                          | 400                  | 200                                        | W x 20                         | 50        | 35                   | 40                     |
| 45                          | 450                  | 200                                        | W x 20                         | 55        | 40                   | 45                     |
| 50                          | 500                  | 200                                        | W x 20                         | 60        | 45                   | 50                     |
| 55                          | 550                  | 200                                        | W x 20                         | 65        | 50                   | 55                     |
| 60                          | 600                  | 200                                        | W x 20                         | 70        | 55                   | 60                     |
| 65                          | 650                  | 200                                        | W x 20                         | 75        | 60                   | 65                     |
| 70                          | 700                  | 200                                        | W x 20                         | 80        | 65                   | 70                     |

**NOTES:**

1. USE ADVANCE SPEED SIGN 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

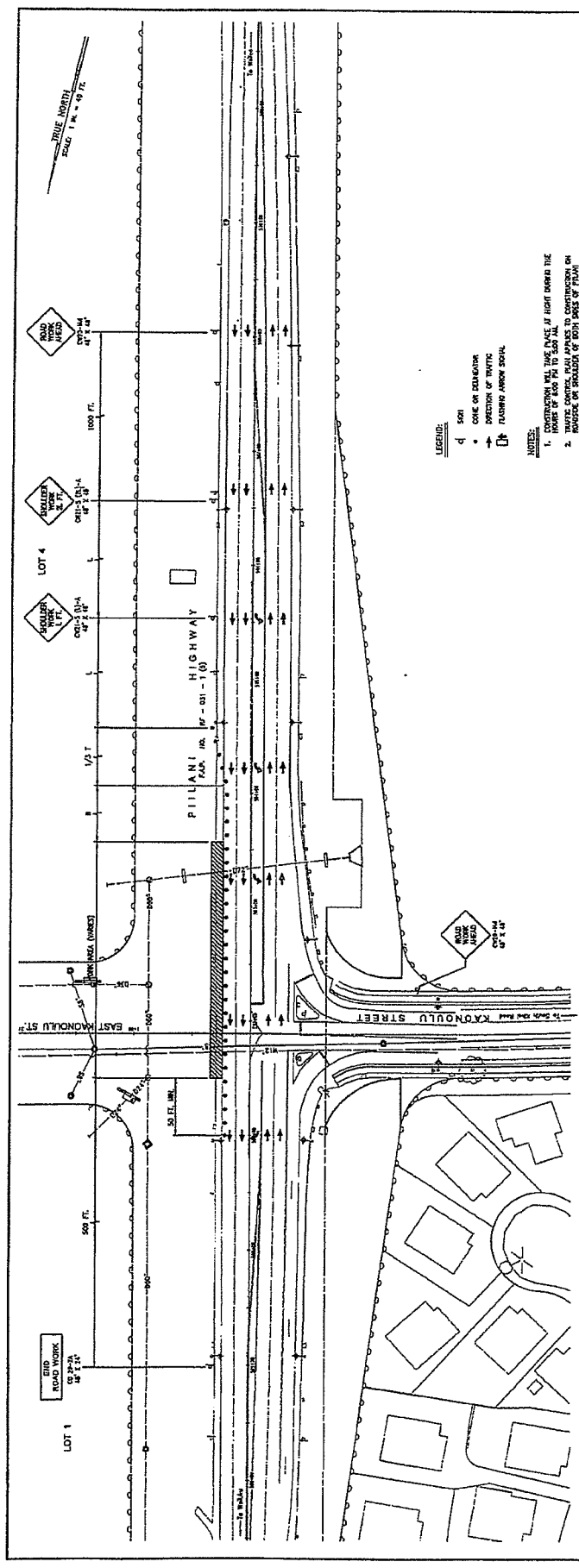
- GENERAL NOTES FOR TRAFFIC CONTROL PLAN**
1. THE FUTURE SHALL BE MAINTAINED AS INTERSECTION, DIVERSION, OR CLOSURE.
  2. SIGNS OR MARKINGS SHALL BE EXTENDED TO A POINT WHERE THEY ARE NO LONGER NEEDED.
  3. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  4. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  5. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  6. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  7. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  8. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  9. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  10. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  11. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.
  12. SIGNS AND MARKINGS SHALL BE MAINTAINED UNTIL THE ROAD IS OPEN TO TWO LANE TRAFFIC.

**WARREN S. LINDGREN ENGINEERING, INC.**  
 1100 WEST STREET, SUITE 200, ST. LOUIS, MO 63102  
 TEL: (314) 433-1100 FAX: (314) 433-1101  
 WWW.WSLENG.COM

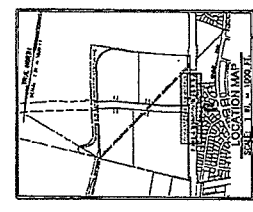
**MAINTENANCE PLAN**  
 PROJECT: MAINTENANCE PLAN  
 DATE: 10/1/10  
 SCALE: 1" = 40' H.

**THE TRAFFIC CONTROL PLAN - PLANNING**  
 PROJECT: MAINTENANCE PLAN  
 DATE: 10/1/10  
 SCALE: 1" = 40' H.

**14.01**  
 14.01  
 14.01



TRAFFIC CONTROL PLAN FOR CONSTRUCTION ON SHOULDER OR ROADSIDE OF STATE RIGHT-OF-WAY



**TABLE 1 FOR TRAFFIC CONTROL PLAN**

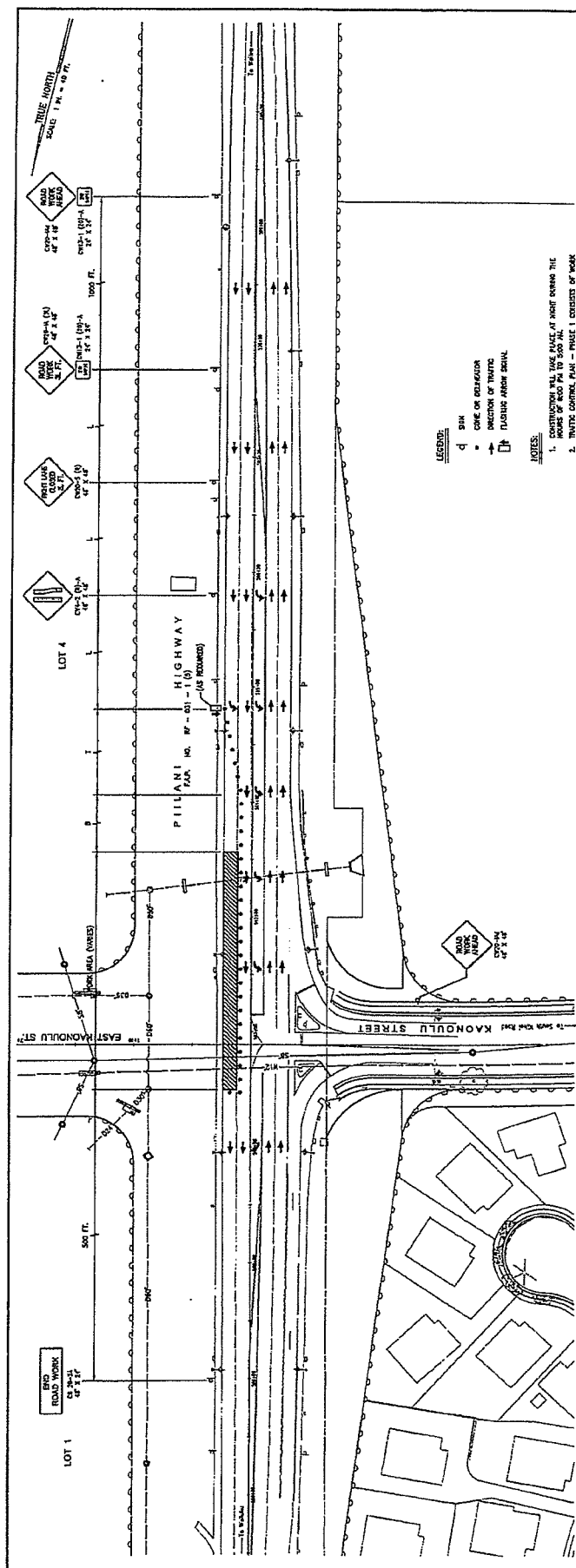
| POSTED SPEED<br>(MPH) | SOFT SHOULDER (FT) | SPACED LANE (FT) | CONSTRUCTION<br>SPACED LANE (FT) |                        | TRAFFIC CONTROL<br>WORK AREA |
|-----------------------|--------------------|------------------|----------------------------------|------------------------|------------------------------|
|                       |                    |                  | W = 17<br>ON LANE (FT)           | W = 17<br>ON LANE (FT) |                              |
| 25                    | 250                | 200              | W = 17                           | 35                     | 35                           |
| 35                    | 350                | 300              | W = 17                           | 55                     | 55                           |
| 45                    | 450                | 400              | W = 17                           | 75                     | 75                           |
| 55                    | 550                | 500              | W = 17                           | 100                    | 100                          |
| 65                    | 650                | 600              | W = 17                           | 125                    | 125                          |
| 75                    | 750                | 700              | W = 17                           | 150                    | 150                          |
| 85                    | 850                | 800              | W = 17                           | 175                    | 175                          |
| 95                    | 950                | 900              | W = 17                           | 200                    | 200                          |
| 105                   | 1050               | 1000             | W = 17                           | 225                    | 225                          |
| 115                   | 1150               | 1100             | W = 17                           | 250                    | 250                          |
| 125                   | 1250               | 1200             | W = 17                           | 275                    | 275                          |
| 135                   | 1350               | 1300             | W = 17                           | 300                    | 300                          |
| 145                   | 1450               | 1400             | W = 17                           | 325                    | 325                          |
| 155                   | 1550               | 1500             | W = 17                           | 350                    | 350                          |

- GENERAL NOTES FOR TRAFFIC CONTROL PLAN**
1. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  2. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  3. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  4. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  5. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  6. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  7. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  8. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  9. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
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  11. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
  12. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

**WARRIEN ENGINEERING, INC.**  
 1111 KULE STREET, SUITE 100, HONOLULU, HI 96813  
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 FAX: (808) 531-1112  
 E-MAIL: INFO@WARRIEN-ENG.COM  
 WWW.WARRIEN-ENG.COM

**KAUNOLU MARKET PLACE**  
 1111 KULE STREET, SUITE 100, HONOLULU, HI 96813  
 TEL: (808) 531-1111  
 FAX: (808) 531-1112  
 E-MAIL: INFO@WARRIEN-ENG.COM  
 WWW.WARRIEN-ENG.COM

**THE TRAFFIC CONTROL PLAN - PILI LANE**  
 DATE: 11-15-10  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]  
 SCALE: 1" = 40' TL



## TRAFFIC CONTROL PLAN FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY -- PHASE I

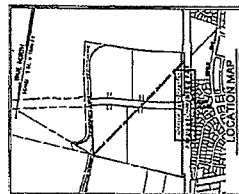
TABLE 1 FOR TRAFFIC CONTROL PLAN

# GENERAL NOTES FOR TRAFFIC CONTROL PLAN



**NOTE:**

- ① USE ADVISORY SPEEDS WHEN POSTED.
- ②  $W$  = WIDTH OF LAKE, SHOULDER, OR OFFSET.
- ③ NOT APPLICABLE FOR TWO-LANE HIGHWAYS.













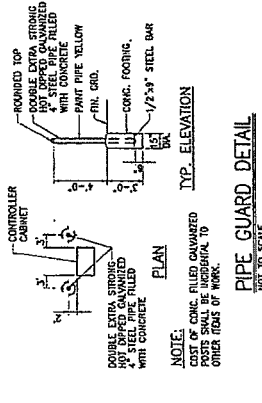
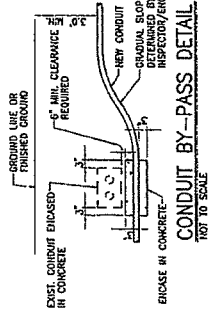


# TRAFFIC SIGNAL NOTES

- ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE COMPLETELY WIRED IN THE CABINET AND SHALL CONTROL THE TRAFFIC SIGNALS AS CALLED FOR IN THE PLANS.
- SIGNAL INDICATIONS DURING CLEARANCE INTERVAL:
  - IF A SIGNAL IS ON RED, AND WILL BECOME GREEN, DURING THE NEXT PHASE, IT SHALL BE ON RED DURING THE CLEARANCE INTERVAL.
  - IF A SIGNAL IS ON RED, AND WILL BECOME GREEN, DURING THE NEXT PHASE, IT SHALL BE ON RED DURING THE CLEARANCE INTERVAL.
  - IF A SIGNAL IS ON RED, AND WILL BECOME GREEN, DURING THE NEXT PHASE, IT SHALL BE ON RED DURING THE CLEARANCE INTERVAL.
- THE LOOP AMPLIFIER UNIT FURNISHED FOR THIS PROJECT SHALL BE CAPABLE OF DETECTING THE PRESENCE OF A VEHICLE ON THE LOOP AND SHALL BE WIRING TO THE LOOP AMPLIFIER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE LOOP DETECTOR.
- A SIGNAL IN RED POSITION SHALL BE PULSED WITH THE MASTER CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE CONTROL CABLE.
- CONDUITS AND PULLBOX LOCATIONS AS SHOWN ON THE PLANS ARE SCHEMATIC. THEY MAY BE MODIFIED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL THE CONTROLLER AND CABINET IN THE INDICATED LOCATION.
- ALL WORK FOR THE INSTALLATION OR MODIFICATION OF THE TRAFFIC SIGNAL SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1984, AND THE STANDARD PLANS OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION AND AS SHOWN ON THESE DRAWINGS.
- ALL SPACING SHALL BE DONE IN THE PULLBOXES.
- REPAIRING AND REWIRING THE CONDUIT SYSTEMS (CONDUITS TO BE OF ANOTHER TYPE) SHALL BE DONE SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- THE CONCRETE JACKET FOR THE CONDUIT BY-PASS DETAIL SHOWN ON THIS SHEET SHALL NOT BE AND FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS. THE ENGINEER SHALL DETERMINE IF A CONCRETE JACKET IS REQUIRED.
- ALL CABLE AND ELEMENTS FOR GROUNDING SHALL BE NEW.
- CABLES BETWEEN SIGNAL PAGES, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, AND TRAFFIC SIGNAL HEADS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1984, AND THE STANDARD PLANS OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION AND AS SHOWN ON THESE DRAWINGS. COST SHALL BE INCIDENTAL TO VARIOUS TRAFFIC SIGNAL CONTRACT ITEMS.
- CONDUITS BETWEEN THE TRAFFIC SIGNAL STANDARD AND THE PULLBOX SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1984, AND THE STANDARD PLANS OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION AND AS SHOWN ON THESE DRAWINGS. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE TRAFFIC SIGNAL STANDARD FOUNDATION.
- UNLESS OTHERWISE SPECIFIED, ALL CONDUITS SHALL BE PVC SCHEDULE 80.
- THE CONTRACTOR SHALL NOTIFY THE MAINTENANCE OFFICE, HIGHWAY DIVISION, STATE OF HAWAII DEPARTMENT OF TRANSPORTATION, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE TRAFFIC SIGNAL SYSTEM (PHONE 873-3535).
- THE TRAFFIC SIGNAL STANDARDS SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1984, AND THE STANDARD PLANS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
- ALL TRAFFIC SIGNAL CONDUITS SHALL BE CONCRETE ENCASED.

# CONSTRUCTION NOTES

- LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES SUCH AS PIPES, LINES, CONDUITS, CABLES, ETC., SHOWN ON PLANS ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITH THE RESPECTIVE OWNERS. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.
- THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE PLANS AND SHALL BE RESPONSIBLE FOR ANY CORRECTIONS. ANY CORRECTIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR SHALL NOTIFY ALL COMPANIES TO VERIFY, TONE AND LOCATE THEIR EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CORRECTIONS. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- THE LOCATIONS OF THE NEW TRAFFIC SIGNAL STANDARDS, TRAFFIC SIGNAL STANDARDS, WITH LASTING PEDESTRIAN PUSH BUTTONS, TRAFFIC SIGNAL CONTROLLER, PULLBOXES, AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND RE-ESTABLISHMENT.
- ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL OF CONSTRUCTION CONTROL DEVICES, FEDERAL HIGHWAY ADMINISTRATION (FHWA) AND AMENDMENTS.
- MAINTENANCE OF TRAFFIC THROUGH THE CONSTRUCTION AREA SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1984, AND THE STANDARD PLANS OF THE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION AND AS SHOWN ON THESE DRAWINGS. SPECIAL PROVISIONS, THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, BUNKERS, CONSTRUCTION SIGNS, ETC., FOR THE SAFETY OF THE MOTORING PUBLIC.
- AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC.
- THE CONTRACTOR SHALL PROVIDE A 3-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN THE TRAFFIC SIGNAL CABINET AND ALL EXISTING UTILITY LINES.

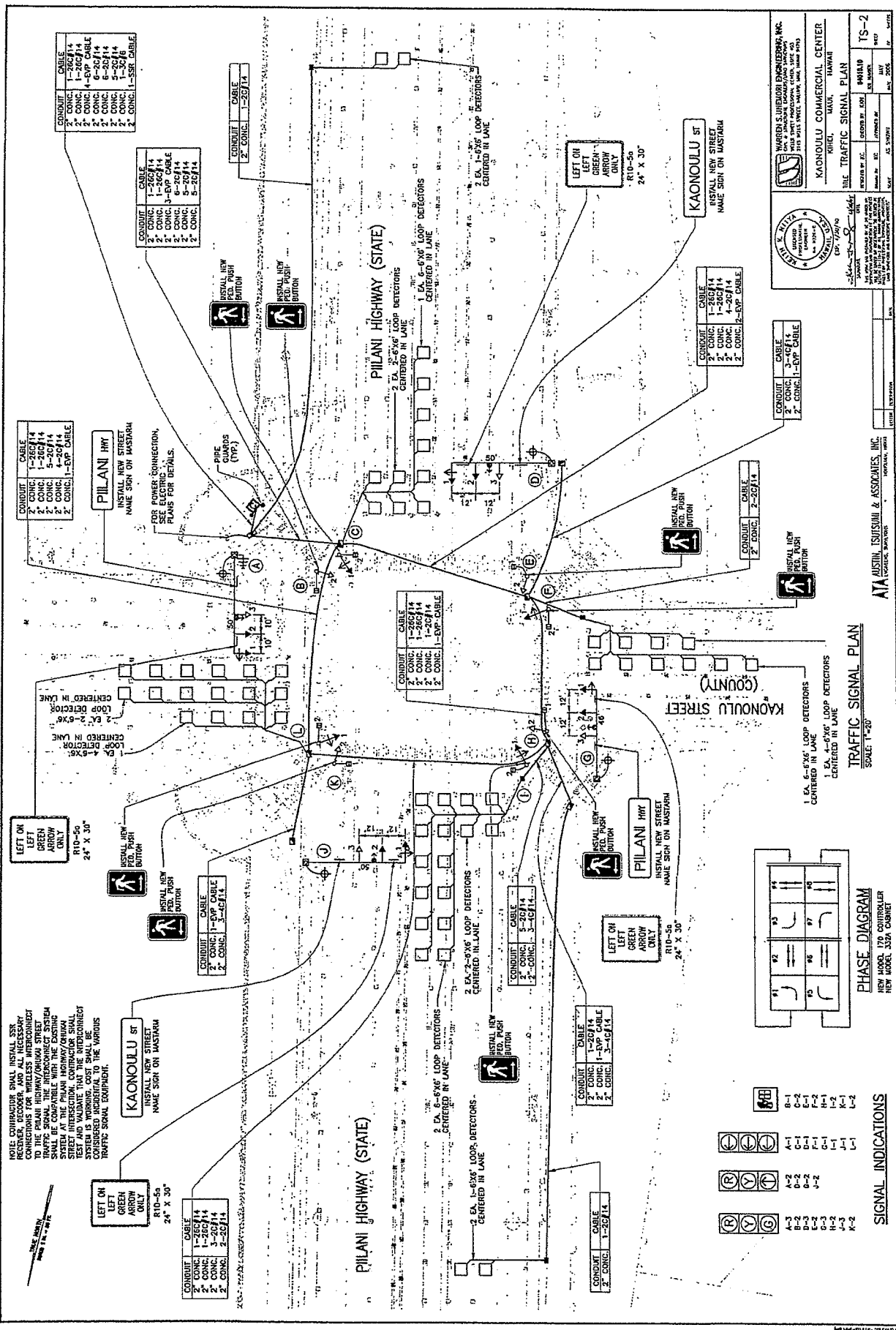


# LEGEND

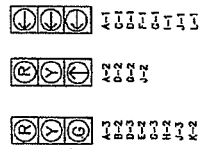
- NEW**
- PEDESTRIAN SIGNAL HEAD
  - 12" R Y G STANDARD TRAFFIC SIGNAL HEAD
  - 12" R Y T STANDARD TRAFFIC SIGNAL HEAD
  - 12" R Y G STANDARD TRAFFIC SIGNAL HEAD
  - EXP DETECTOR
  - LOOP DETECTOR
  - MODEL 170 CONTROLLER ON BASE
  - TYPE "A" PULLBOX
  - TYPE "B" PULLBOX
  - TYPE "C" PULLBOX
  - STANDARD TRAFFIC AND PEDESTRIAN SIGNAL HEADS
  - MONITOR ON TYPE 1 SIGNAL STANDARD
- EXISTING**
- TRAFFIC SIGNAL HEADS MOUNTED ON TYPE M SIGNAL STANDARD 20" H X 12" BETWEEN HEADS WITH A 12" AREA FOR THE LUMINAIRE
  - NEW CONDUITS WITH SIZE & NUMBER AND TYPE OF NEW CABLES AS INDICATED
  - MECO METER PEDestal
  - SERVO SPECTRUM METER RESECTOR (SSM) AND RESECTOR FOR WIRELESS RESECTOR

|                                                                       |  |                                                       |  |
|-----------------------------------------------------------------------|--|-------------------------------------------------------|--|
|                                                                       |  |                                                       |  |
| KAHOOLA COMMERCIAL CENTER<br>HAWAII<br>KAHALA, HAWAII                 |  | KAHOOLA COMMERCIAL CENTER<br>HAWAII<br>KAHALA, HAWAII |  |
| TITLE: TRAFFIC SIGNAL<br>DATE: 10/10/84                               |  | SHEET: 75-1<br>OF: 3407                               |  |
| DESIGNED BY: J. D. JONES<br>CHECKED BY: J. D. JONES<br>DATE: 10/10/84 |  | DRAWN BY: J. D. JONES<br>DATE: 10/10/84               |  |

ATA ASSOCIATES & ASSOCIATES, INC.  
ENGINEERING DIVISION



NOTE: CONTRACTOR SHALL INSTALL SSR, RECEIVER, DECODER, AND ALL NECESSARY WIRING TO THE PILOI HIWAY/KAONOU LU STREET TRAFFIC SIGNAL. THE INTERCONNECT SYSTEM SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND VALIDATING THE INTERCONNECT SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSIDERING THE INTERCONNECT SYSTEM TO THE TRAFFIC SIGNAL COMPONENT.



**SIGNAL INDICATIONS**

|     |     |     |     |
|-----|-----|-----|-----|
| 1-1 | 1-2 | 1-3 | 1-4 |
| 2-1 | 2-2 | 2-3 | 2-4 |
| 3-1 | 3-2 | 3-3 | 3-4 |
| 4-1 | 4-2 | 4-3 | 4-4 |

**TRAFFIC SIGNAL PLAN**  
SCALE: 1"=20'

**WATSON SUBURBAN ENGINEERING, INC.**  
1000 W. WILSON AVE., SUITE 100  
HONOLULU, HAWAII 96819  
TEL: 808-943-1111  
FAX: 808-943-1112

**KAONOU LU COMMERCIAL CENTER**  
KALIA, HAWAII

**TRAFFIC SIGNAL PLAN**

PROJECT NO. 1000  
SHEET NO. 1001  
DATE: 01/10/00

TS-2

**ATA TSUTSUMI & ASSOCIATES, INC.**  
1000 W. WILSON AVE., SUITE 100  
HONOLULU, HAWAII 96819  
TEL: 808-943-1111  
FAX: 808-943-1112

RAY AUSTIN, TSUTSUMI &amp; ASSOCIATES, INC.

# STATE RIGHT-OF-WAY BACKFILL NOTES

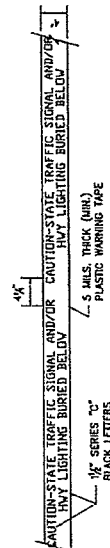
CONTROLLED LOW STRENGTH MATERIAL (CLSM) APPROXIMATELY 90-160 PSI COMPRESSIVE STRENGTH AT 28 DAYS. CLSM SHALL COMPLY WITH PARTS 315 AND 601 OF THE SPECIAL PROVISIONS.

CONCRETE 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS.

NOTE: BASE COURSE & SUB-BASE COURSE PER 1994 STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

## GENERAL NOTES

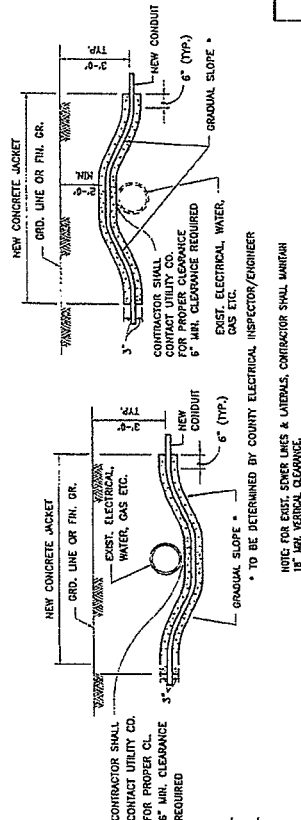
- IF TRENCH IS LOCATED ON UNPAVED AREA, THE CONTRACTOR SHALL REPLACE TO A.C. BASE COURSE AND 4" A.C. PAVEMENT WITH TYPE "X" TRENCH BACKFILL MATERIAL. (TRENCH BACKFILL MATERIAL "X" CONSIST OF BEACH SAND, DIRT, OR EARTH AND GRAVEL. IF DIRT AND GRAVEL IS USED, THE MAXIMUM SHALL CONTAIN NOT MORE THAN 50% BY VOLUME OF ROCK PARTICLE. MAXIMUM 8" LOOSE FILL PER LIFT OBTAIN 95% COMPACTION FOR EACH LIFT. ROCK SHALL NOT EXCEED 1" #).
- THE METAL DETECTABLE RED PLASTIC WARNING TAPE SHALL BE A MINIMUM 5 MILS THICK AND 4" WIDE WITH A CONTINUOUS METALLIC BACKING AND CORROSION RESISTANT 1" MIL THICK FOL CORE. THE MESSAGE ON THE TAPE SHALL READ, "CAUTION - STATE TRAFFIC SIGNAL AND/OR TRAFFIC SIGNAL CONTROLLER CABINET BELOW." UTILIZING 1/2 INCHES SERIES "C" BLACK LETTERING. THE MESSAGE WILL BE REPEATED WITH A 4' SPACING BETWEEN TOP LINE OF MESSAGE AND START OF NEXT REPEAT.
- THE CONTRACTOR MAY BEGIN BACKFILLING THE CONDUIT TRENCH BEFORE THE CONCRETE REACHES 2500 PSI COMPRESSIVE STRENGTH BUT AFTER CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH THAT BACKFILLING WILL NOT DAMAGE THE CONCRETE JACKET.
- MAXIMUM FOUR (4) CONDUITS PER ROW FOR MULTIPLE CONDUIT DUCT SECTION. DUCTS SHALL BE INSTALLED WITH SPACERS AND ANCHORED TO THE GROUND BEFORE POURING CONCRETE. SPACERS SHALL BE A MAXIMUM OF 5' APART. JOINTS SHALL BE STAGGERED.
- FOR DIRECT BURIED DUCT SECTIONS, THE CONCRETE JACKET REQUIRED AT THE CONDUIT BY-PASS FOR VARIOUS UTILITIES, SHALL BE AT THE CONTRACTOR'S EXPENSE.
- AFTER INSTALLING ALL THE TRAFFIC SIGNAL CABLES, THE CONTRACTOR SHALL DUCT SEAL ALL CONDUITS IN THE FOLLOWING TRAFFIC SIGNAL STANDARDS AND TRAFFIC SIGNAL CONTROLLER CABINET CONCRETE BASE. THE DUCT SEAL MATERIAL SHALL BE APPROVED BY THE TRAFFIC SIGNAL INSPECTOR/ENGINEER.



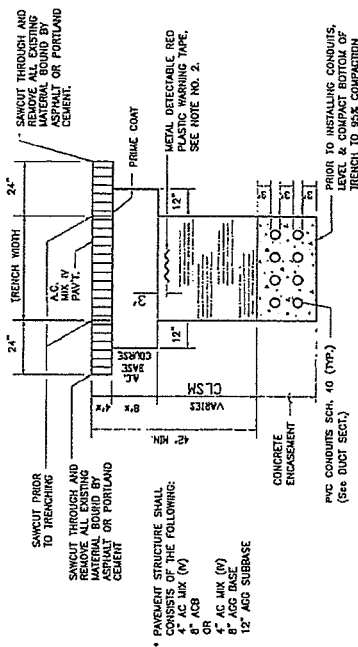
FOR ADDITIONAL INFORMATION SEE NOTE NO.2.

## METAL DETECTABLE RED PLASTIC WARNING TAPE

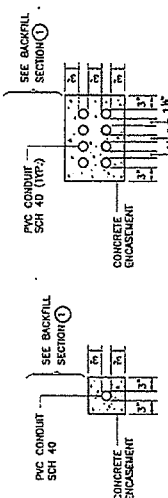
## CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES NOT TO SCALE



NOTES: FOR EXIST. SINK LINES & UTILITY, CONTRACTOR SHALL MAINTAIN 18" MIN. VERTICAL CLEARANCE.



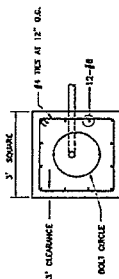
## TYPICAL BACKFILL SECTION WITH CONCRETE ENCASED DUCTS



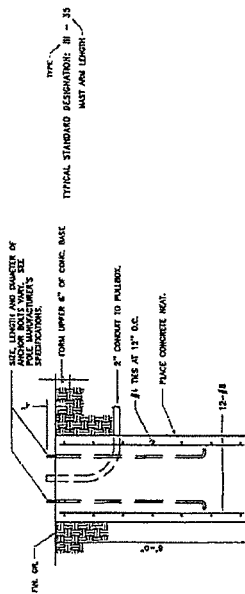
## SINGLE CONDUIT DUCT SECTIONS - CONC. ENCASED

## MULTIPLE CONDUIT DUCT SECTIONS - CONC. ENCASED

|                                                                                                                                   |  |                                                                          |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|
|                                                                                                                                   |  |                                                                          |  |
| WARREN SLINGER ENGINEERING, INC.<br>ONE A HAWAIIAN SHORELINE DRIVE<br>HONOLULU, HAWAII 96813<br>(808) 551-1111 FAX (808) 551-1112 |  | KAONULI COMMERCIAL CENTER<br>1001 KALANOA AVE.<br>HONOLULU, HAWAII 96813 |  |
| PROJECT NO. 10-10-10-10<br>DRAWING NO. 10-10-10-10<br>DATE 10-10-10                                                               |  | PROJECT NO. 10-10-10-10<br>DRAWING NO. 10-10-10-10<br>DATE 10-10-10      |  |
| PREPARED BY: [Name]<br>CHECKED BY: [Name]<br>DESIGNED BY: [Name]                                                                  |  | PREPARED BY: [Name]<br>CHECKED BY: [Name]<br>DESIGNED BY: [Name]         |  |



PLAN



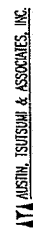
ELEVATION

- NOTES:
1. CONCRETE SHALL BE CLASS "W".
  2. TYPE "C" CONCRETE BASE SHALL BE USED FOR ALL TYPES OF TRAFFIC SIGNALS.
  3. CONCRETE SHALL BE PLACED IN PLACE.
  4. CONCRETE SHALL BE INCORPORATED TO CONCRETE BASE.

TYPE "C" CONCRETE BASE  
NOT TO SCALE

|                                                                              |                                                                           |                                                                                                                                                     |                                                           |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|                                                                              |                                                                           | <b>WARREN S. LINSOTT ENGINEERING, INC.</b><br>ONE A THIRDAVENUE CENTER<br>SUITE 200<br>2115 KALANANUOULI DRIVE, SUITE 200<br>HONOLULU, HAWAII 96815 |                                                           |
| <b>KAONOLU COMMERCIAL CENTER</b><br>HONOLULU, MAUI, HAWAII                   |                                                                           | PROJECT NO. <b>TS-5</b><br>SHEET NO. <b>1</b> OF <b>1</b>                                                                                           |                                                           |
| DESIGNED BY: <b>W.S.</b><br>CHECKED BY: <b>W.S.</b><br>DATE: <b>10/10/78</b> | DRAWN BY: <b>W.S.</b><br>CHECKED BY: <b>W.S.</b><br>DATE: <b>10/10/78</b> | PROJECT NO. <b>TS-5</b><br>SHEET NO. <b>1</b> OF <b>1</b>                                                                                           | PROJECT NO. <b>TS-5</b><br>SHEET NO. <b>1</b> OF <b>1</b> |

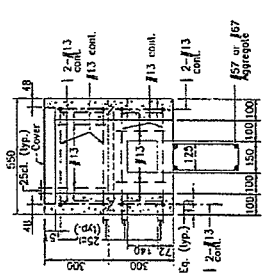
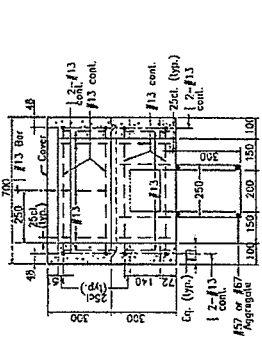
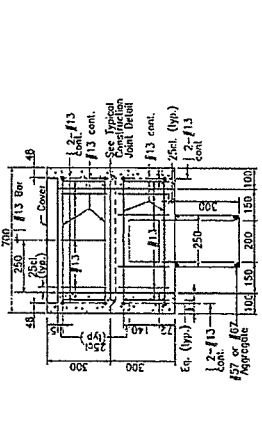
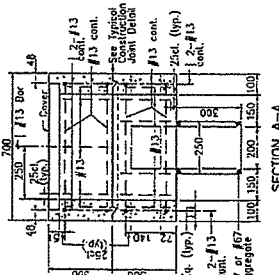
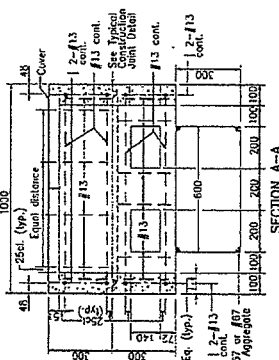
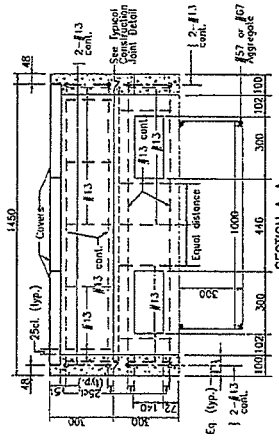
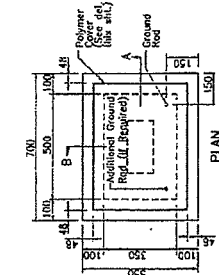
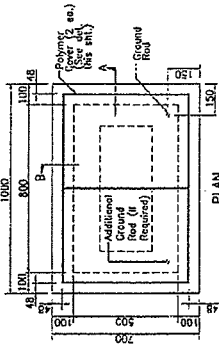
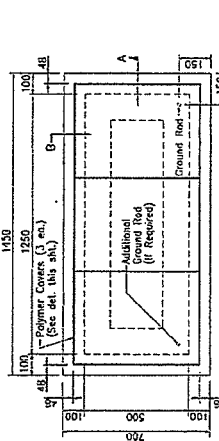
**ATA MITSUBISHI & ASSOCIATES, INC.**  
 ENGINEERING DIVISION  
 HONOLULU, HAWAII



ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE SHOWN

# GENERAL NOTES

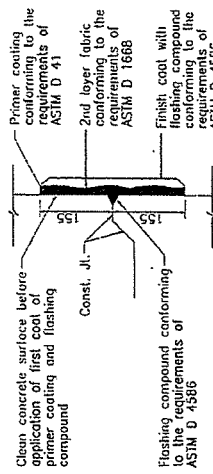
1. Provide a minimum of one 186 x 2.5m Copperweld Ground Rod in each pullbox. When directed by the Traffic Signal Inspector/Engineer, install additional Ground Rods. Cost of Ground Rods shall be incidental to the pullboxes.
2. All pre-cast concrete pullboxes shall be manufactured in two pieces.
3. The pullbox with cover shall be capable of supporting on MS 18 Loading.
4. The maximum weight of the pullbox cover shall not exceed 27 kilograms.
5. The openings for the conduits on all pullboxes shall be pre-cast concrete knockouts.
6. After installing the conduits in the openings of the pullboxes, the Contractor shall fill the excess opening in the pre-cast knockouts with concrete mortar.
7. Prior to installing the pullboxes, the Contractor shall level the bottom of the trench and achieve a minimum of 95% relative compaction of the bottom of the trench.
8. All concrete shall be Class A (21MPa or 3000PSI, min.).
9. Rebars shall be Grade 300 and all lapped splices shall be 360mm minimum.
10. The #57 or #67 size aggregate shall conform to latest version of KASHTO M43 (ASTM D 448).
11. Type "C" Pullbox shall be installed in a location protected from vehicular traffic (i.e. raised sidewalk, behind A.C. curbs, traffic signal standard or pipe guards).



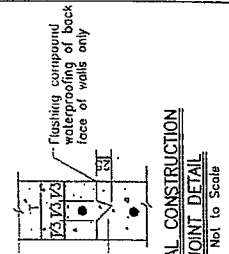
TYPE "A" PULLBOX (Old Type "B")  
Scale: 1 : 100

TYPE "B" PULLBOX (Old Type "C")  
Scale: 1 : 100

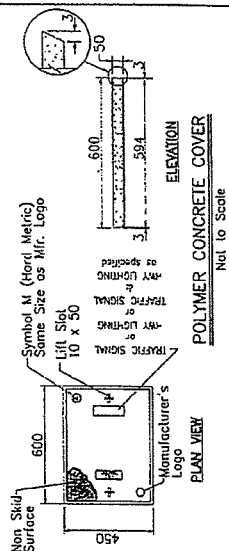
TYPE "C" PULLBOX (Old Type "D")  
Scale: 1 : 100



TYPICAL FLASHING COMPOUND  
WATERPROOFING DETAILS  
Not to Scale



TYPICAL CONSTRUCTION  
JOINT DETAIL  
Not to Scale



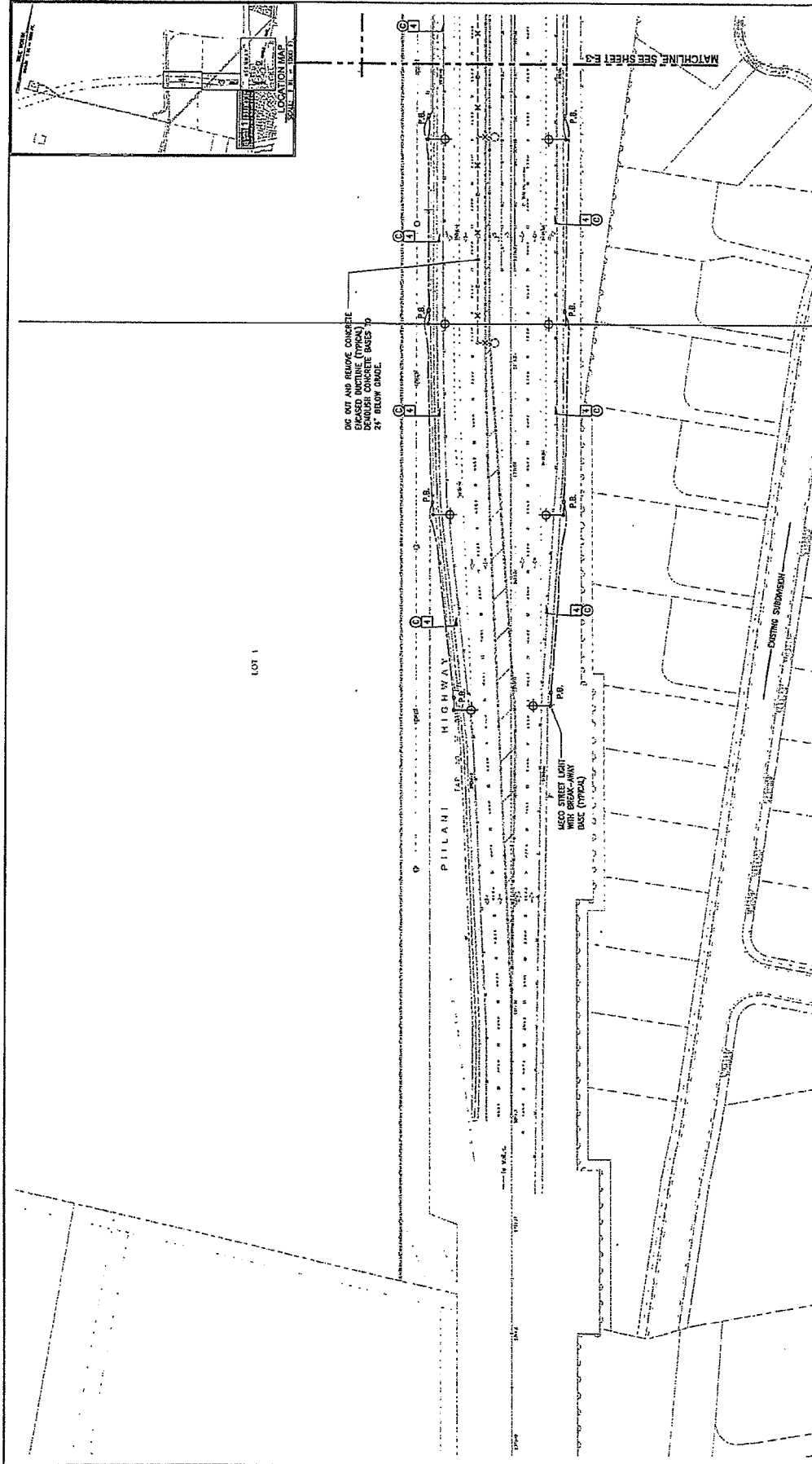
POLYMER CONCRETE COVER  
Not to Scale

KAONOULU COMMERCIAL CENTER  
RUE, MAUI, HAWAII

DATE: 10/10/2018  
DRAWN BY: J. J. J. J.  
CHECKED BY: J. J. J. J.  
APPROVED BY: J. J. J. J.

AT&T  
COMMUNICATIONS  
CORPORATION



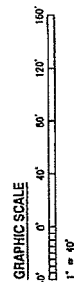
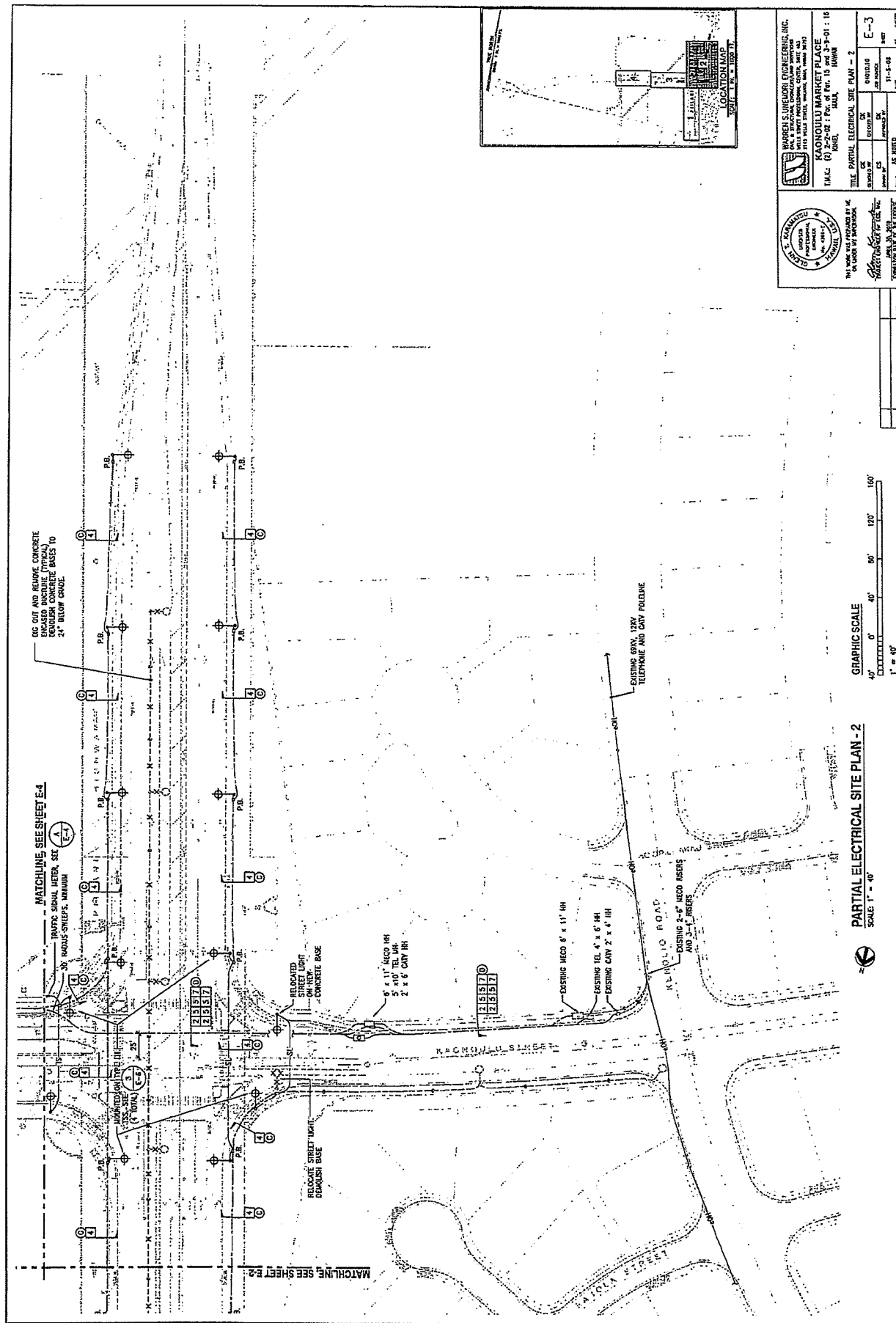


**KARONI MARKET PLACE**  
HAWAII  
TITLE: PARTIAL ELECTRICAL SITE PLAN - 1  
DATE: 02-2-02  
PROJECT: 11-1-02  
SHEET: E-2

**GRAPHIC SCALE**  
40' 0' 40' 80' 120' 160'  
1" = 40'

**PARTIAL ELECTRICAL SITE PLAN - 1**  
SCALE: 1" = 40'

**PREPARED BY:** [Signature]  
**CHECKED BY:** [Signature]  
**DATE:** 02-2-02  
**PROJECT:** 11-1-02  
**SHEET:** E-2



PARTIAL ELECTRICAL SITE PLAN - 2  
SCALE: 1" = 40'

**WATERS & SUTHERLAND ENGINEERING, INC.**  
1000 WEST 10TH AVENUE, SUITE 100  
DENVER, COLORADO 80202  
TEL: (303) 733-1111 FAX: (303) 733-1112  
WWW.WATERS-ENGINEERING.COM

**WATERS & SUTHERLAND ENGINEERING, INC.**  
1000 WEST 10TH AVENUE, SUITE 100  
DENVER, COLORADO 80202  
TEL: (303) 733-1111 FAX: (303) 733-1112  
WWW.WATERS-ENGINEERING.COM

**PROJECT INFORMATION**

PROJECT NO.: 1000-1000-1000-1000

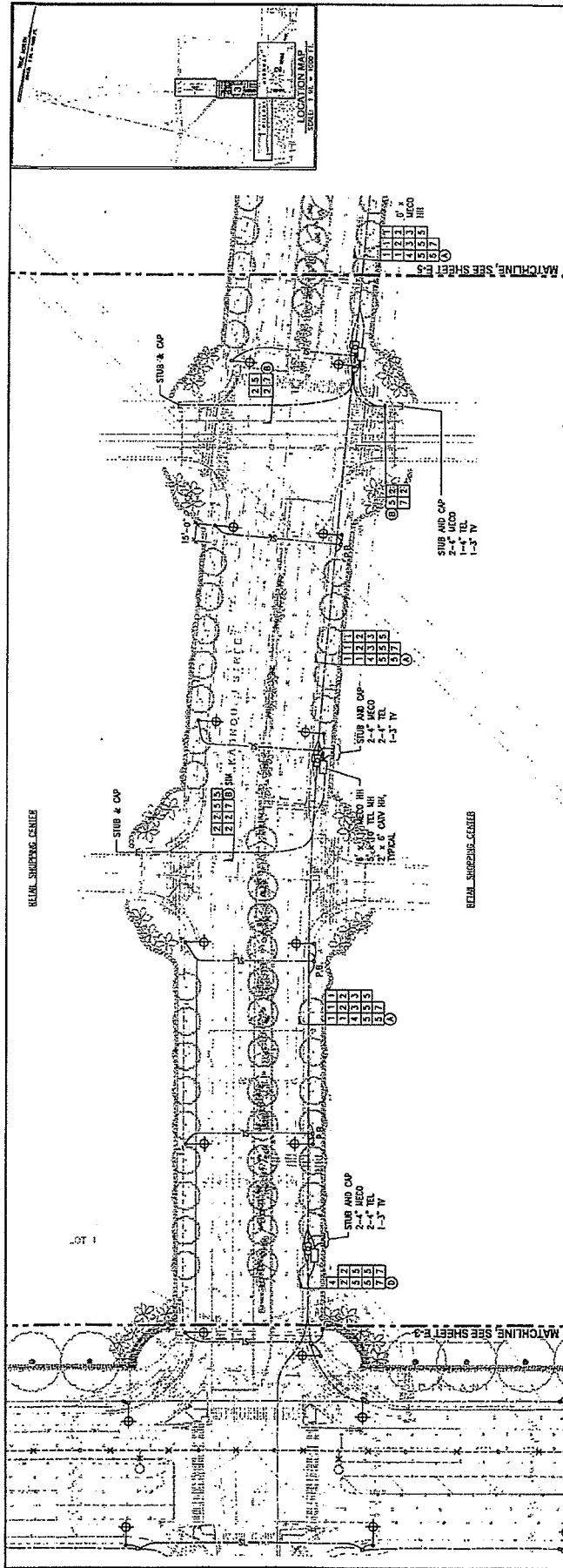
PROJECT NAME: 1000-1000-1000-1000

PROJECT LOCATION: 1000-1000-1000-1000

PROJECT DATE: 1000-1000-1000-1000

**REVISIONS**

| NO. | DATE                | DESCRIPTION         |
|-----|---------------------|---------------------|
| 1   | 1000-1000-1000-1000 | 1000-1000-1000-1000 |

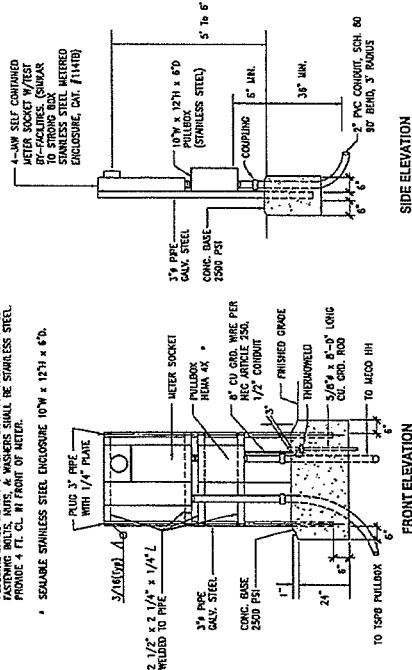


PARTIAL ELECTRICAL SITE PLAN - 3  
SCALE: 1" = 40'

#### NOTES:

FEDERAL SHALL BE NOTIFIED GALV. AFTER FABRICATION. ALL  
EASTERN MOUNTAIN, NUTS, & WASHERS SHALL BE STAINLESS STEEL.  
PROVIDE 4 FT. CL. IN FRONT OF METER.

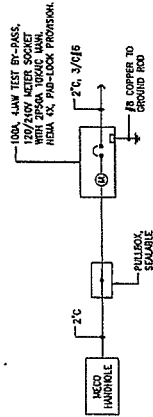
\* SEAMLESS STAINLESS STEEL ENCLOSURE 10" W x 12" H x 4" D.



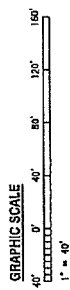
FRONT ELEVATION

SIDE ELEVATION

A METER PEDESTAL FOR UNDERGROUND SERVICE DETAIL  
E-4 NOT TO SCALE

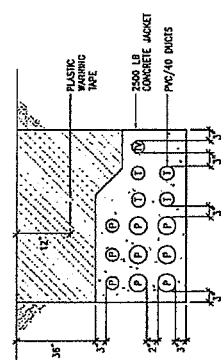


1 TRAFFIC SIGNAL ONE LINE DIAGRAM  
E-4 NOT TO SCALE

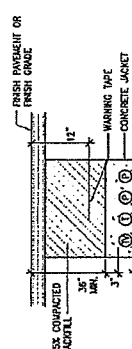


|                                                                                                                                                                |  |                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                |  | <b>KONGKI ENGINEERING, INC.</b><br>1000 KONGKI DRIVE, SUITE 100<br>KAPAHULU, HAWAII 96761<br>TEL: (808) 261-1111<br>FAX: (808) 261-1112 |  |
| <b>PROJECT:</b> KAONOLU MARKET PLACE<br><b>DATE:</b> 10-14-14<br><b>SCALE:</b> AS SHOWN<br><b>BY:</b> JST<br><b>CHECKED BY:</b> JST<br><b>APPROVED BY:</b> JST |  |                                                                                                                                         |  |

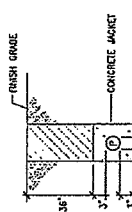
| DUCT SCHEDULE |                    |        |              |
|---------------|--------------------|--------|--------------|
| NO.           | USE                | SIZE   | CABLES       |
| 1             | MECO 12 KV PRIMARY | 5"     | MONC-BY MECO |
| 2             | MECO 12 KV PRIMARY | 4"     | MONC-BY MECO |
| 3             | MECO 18 PRIMARY    | 2"     | MONC-BY MECO |
| 4             | MECO SECONDARY     | 3"     | MONC-BY MECO |
| 5             | TELEPHONE          | 4" DIS | MULETAVE     |
| 6             | TELEPHONE          | 2" DIS | MULETAVE     |
| 7             | DATA               | 4"     | MULETAVE     |



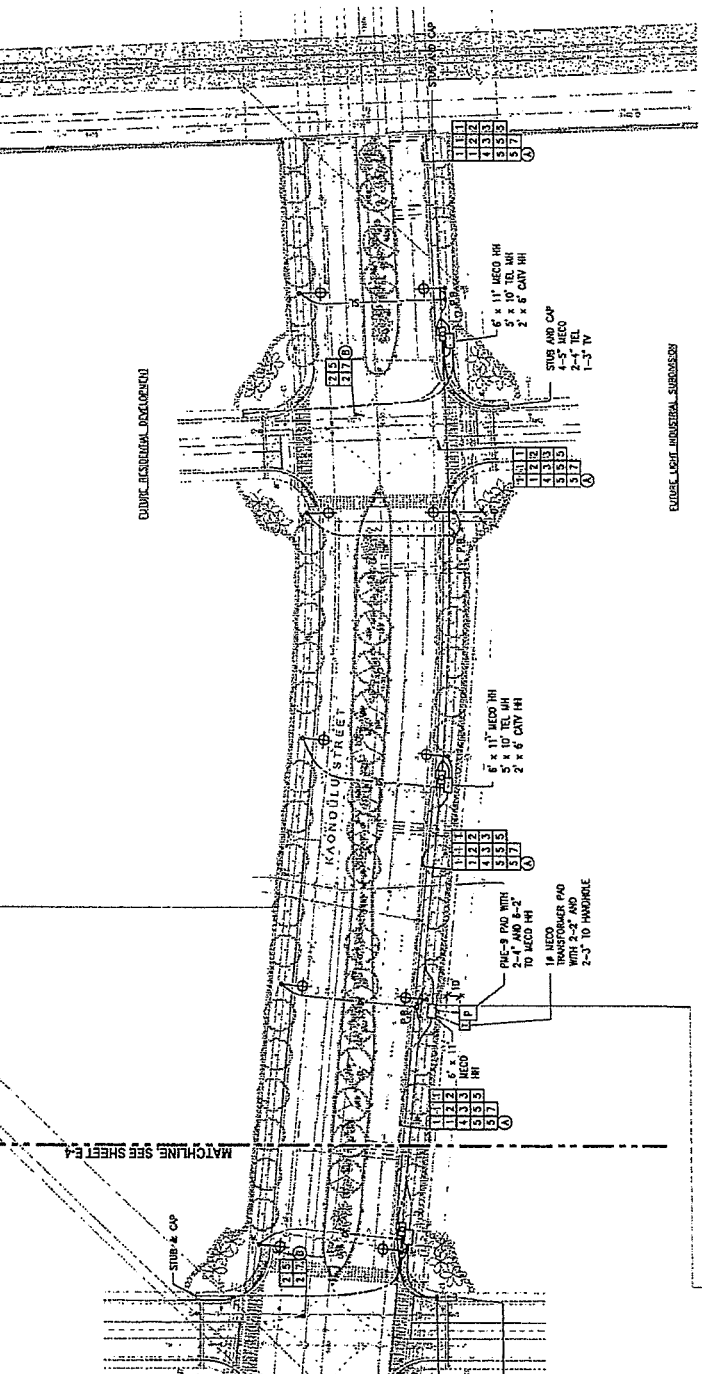
DUCT DETAIL A  
NOT TO SCALE



DUCT DETAIL B  
NOT TO SCALE

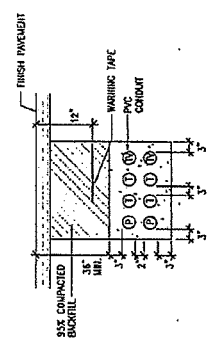


DUCT DETAIL C  
NOT TO SCALE



GRAPHIC SCALE  
40' 0' 40' 80' 120' 160'  
SCALE 1" = 40'

PARTIAL ELECTRICAL SITE PLAN - 4  
SCALE 1" = 40'



DUCT DETAIL D  
NOT TO SCALE

WARELLS ENGINEERING INC.  
ONE K STREET, CHANDLER, ARIZONA 85226  
TEL: (480) 948-1111 FAX: (480) 948-1112  
WWW.WARELLS.COM

**KAHOULI MARKET PLACE**  
TULSA: (918) 252-0811 Fax: (918) 252-0812  
TULSA: (918) 252-0811 Fax: (918) 252-0812

TIME: PARTIAL ELECTRICAL SITE PLAN - 4  
DATE: 08/01/10  
DRAWN BY: JAS. HAYES  
CHECKED BY: JAS. HAYES  
DATE: 11-12-08  
SCALE: AS SHOWN  
SHEET NO. 4 OF 4





REVISIONS

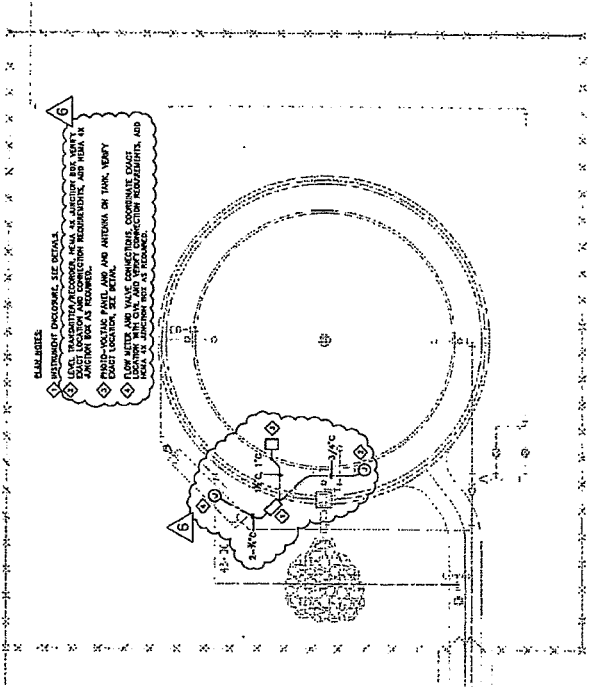
| NO. | DATE       | DESCRIPTION       |
|-----|------------|-------------------|
| 1   | 12/31/2024 | ISSUED FOR PERMIT |

PROJECT NO. 2024-001  
SHEET NO. 1 OF 2

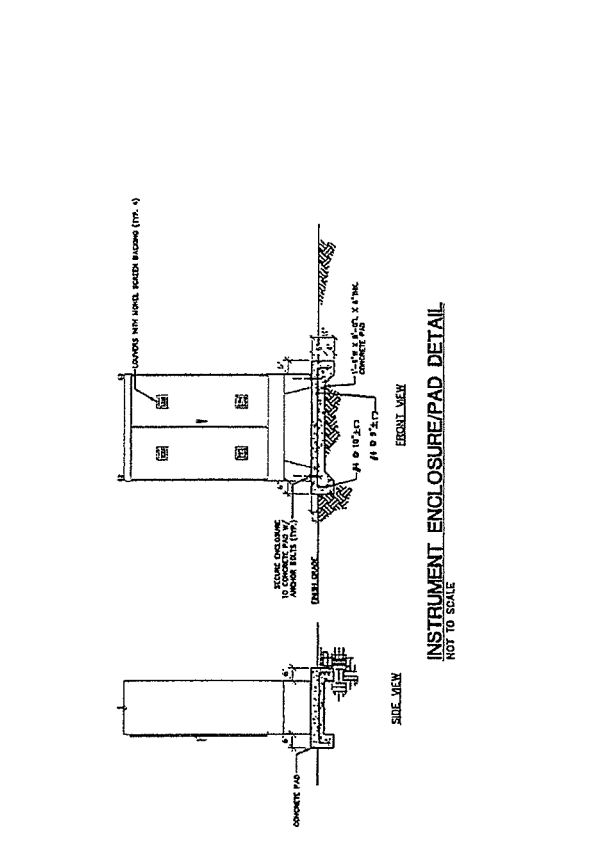
PROJECT NO. 2024-001  
SHEET NO. 1 OF 2

PROJECT NO. 2024-001  
SHEET NO. 1 OF 2

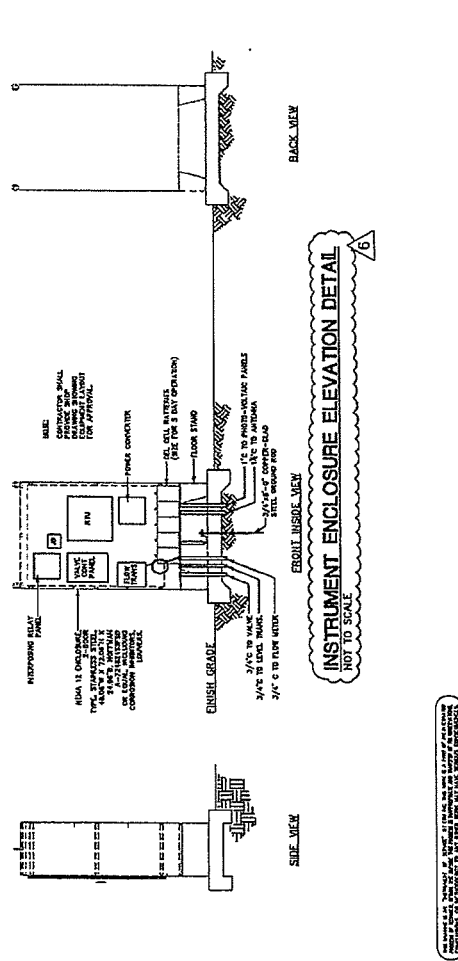
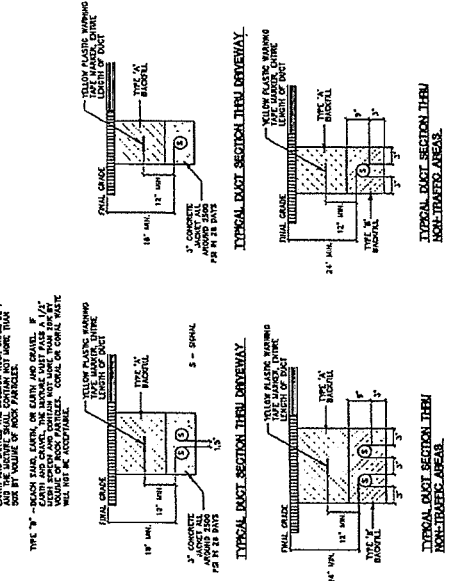
PROJECT NO. 2024-001  
SHEET NO. 1 OF 2



WATER TANK - ELECTRICAL PLAN  
SCALE: 1" = 20'-0"

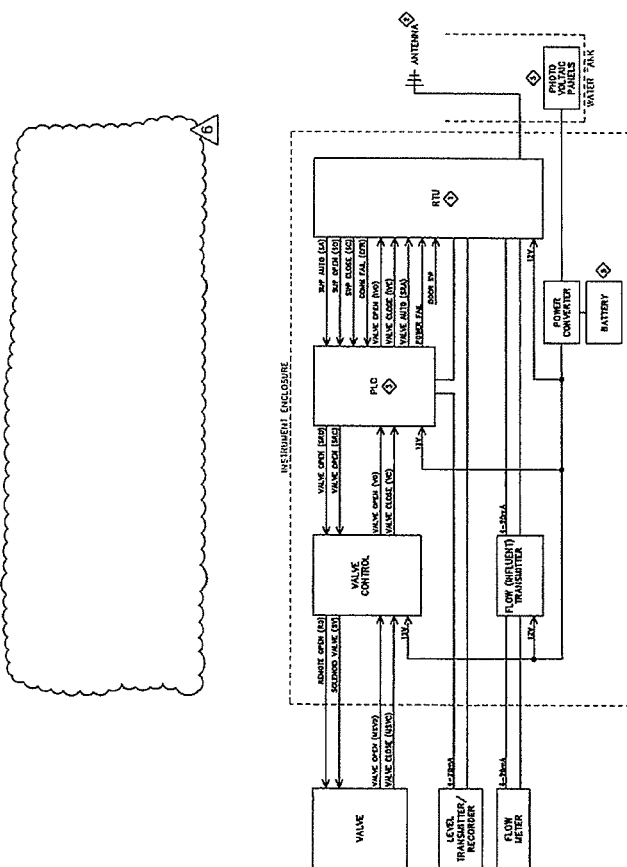
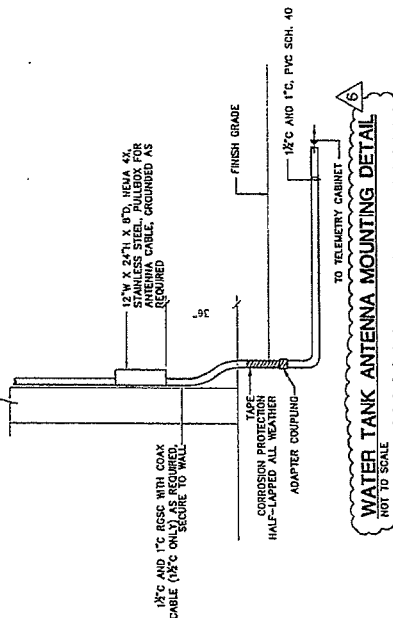
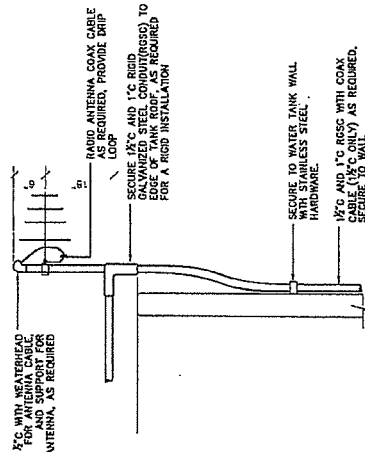


INSTRUMENT ENCLOSURE/PAD DETAIL  
NOT TO SCALE



INSTRUMENT ENCLOSURE ELEVATION DETAIL  
NOT TO SCALE

PROJECT NO. 2024-001  
SHEET NO. 1 OF 2



room in 1992.

VALVE - MICRO SWITCH VALVE OPEN  
VALVE - MICRO SWITCH VALVE CLOSE

VALVE - VALVE OPEN (VALVE POSITION INDICATOR)  
VALVE - VALVE CLOSE (VALVE POSITION INDICATOR)  
VALVE - VALVE OPEN (VALVE CONTROL)

[illegible]

- ④ - RESERVOIR LEVEL RELAY
- ③ GREEN INDICATOR LIGHT
- ② RED INDICATOR LIGHT
- ① WHITE INDICATOR LIGHT

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**Maxwell Design Group, Inc.**  
 Landscape Architecture  
 293 W. VALMART  
 PO BOX 10000  
 DENVER, CO 80201  
 TEL: 303.733.1100  
 FAX: 303.733.1101  
 Email: info@maxwelldesign.com  
 www.maxwelldesign.com

**Professional Engineer**  
 State of Hawaii  
 License No. 10000  
 License Expiration Date 12/31/2015  
 License Renewal Date 12/31/2016  
 License Fee \$100.00  
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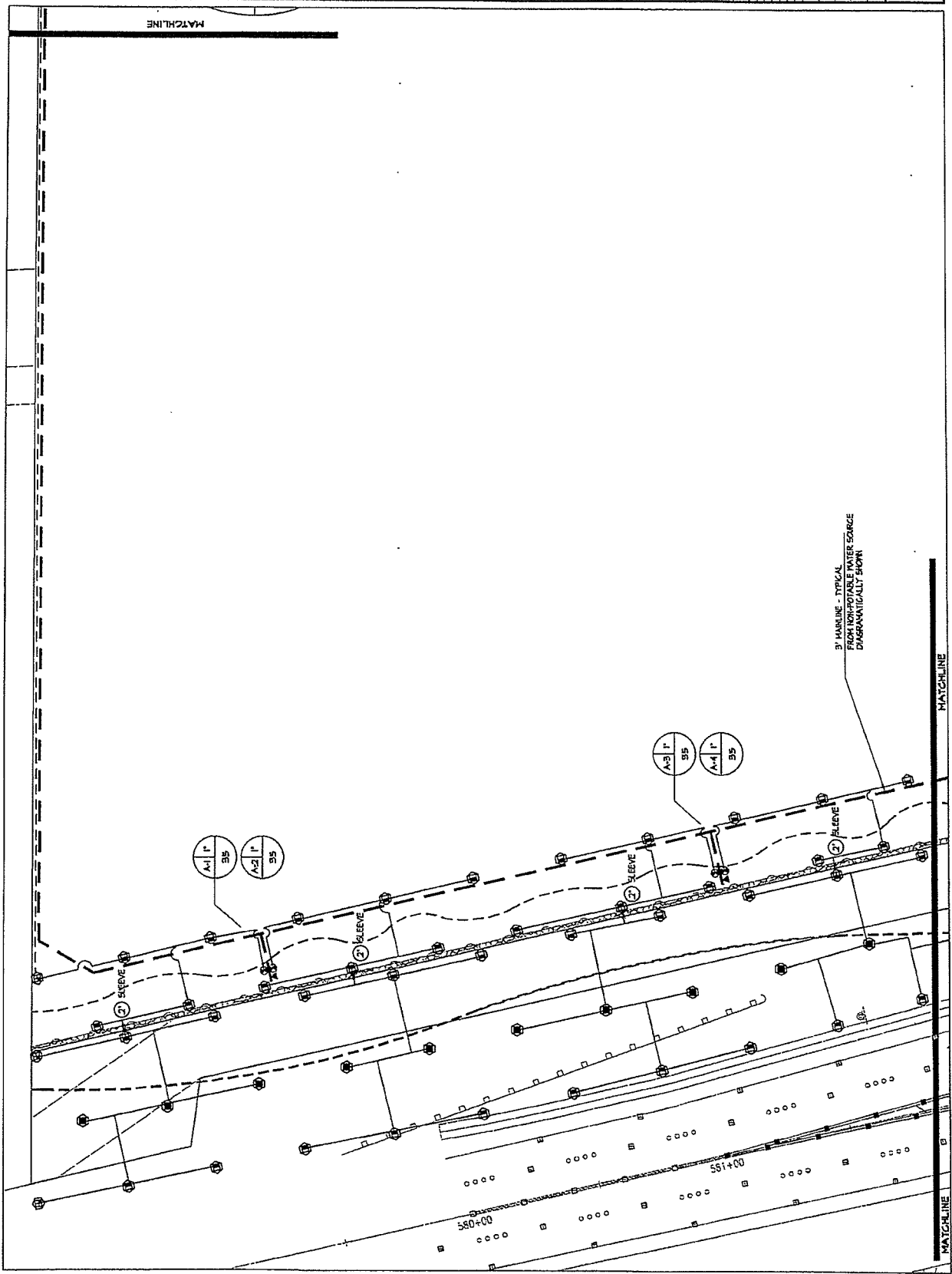
**KAONOLU MARKET PLACE**  
 Kihoe, Maui, Hawaii  
 (2) 2-2-02 For 15 and (2) 3-9-01:16

Sheet Title  
 Landscape Irrigation Plan  
 Area 1

| NO. | DESCRIPTION | DATE       | BY |
|-----|-------------|------------|----|
| 1   | PRELIMINARY | 11/11/2008 | MM |
| 2   | REVISED     | 11/11/2008 | MM |
| 3   | REVISED     | 11/11/2008 | MM |
| 4   | REVISED     | 11/11/2008 | MM |
| 5   | REVISED     | 11/11/2008 | MM |
| 6   | REVISED     | 11/11/2008 | MM |
| 7   | REVISED     | 11/11/2008 | MM |
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| 97  | REVISED     | 11/11/2008 | MM |
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| 99  | REVISED     | 11/11/2008 | MM |
| 100 | REVISED     | 11/11/2008 | MM |

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

Sheet Number  
 11-1 of 1



**Maxwell Design Group, Inc.**  
 Landscape Architecture and Planning  
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 Email: info@maxwelldesign.com  
 www.maxwelldesign.com

**Professional Engineer**  
 State of Hawaii  
 License No. 10000  
 Name: [Signature]  
 Title: [Signature]

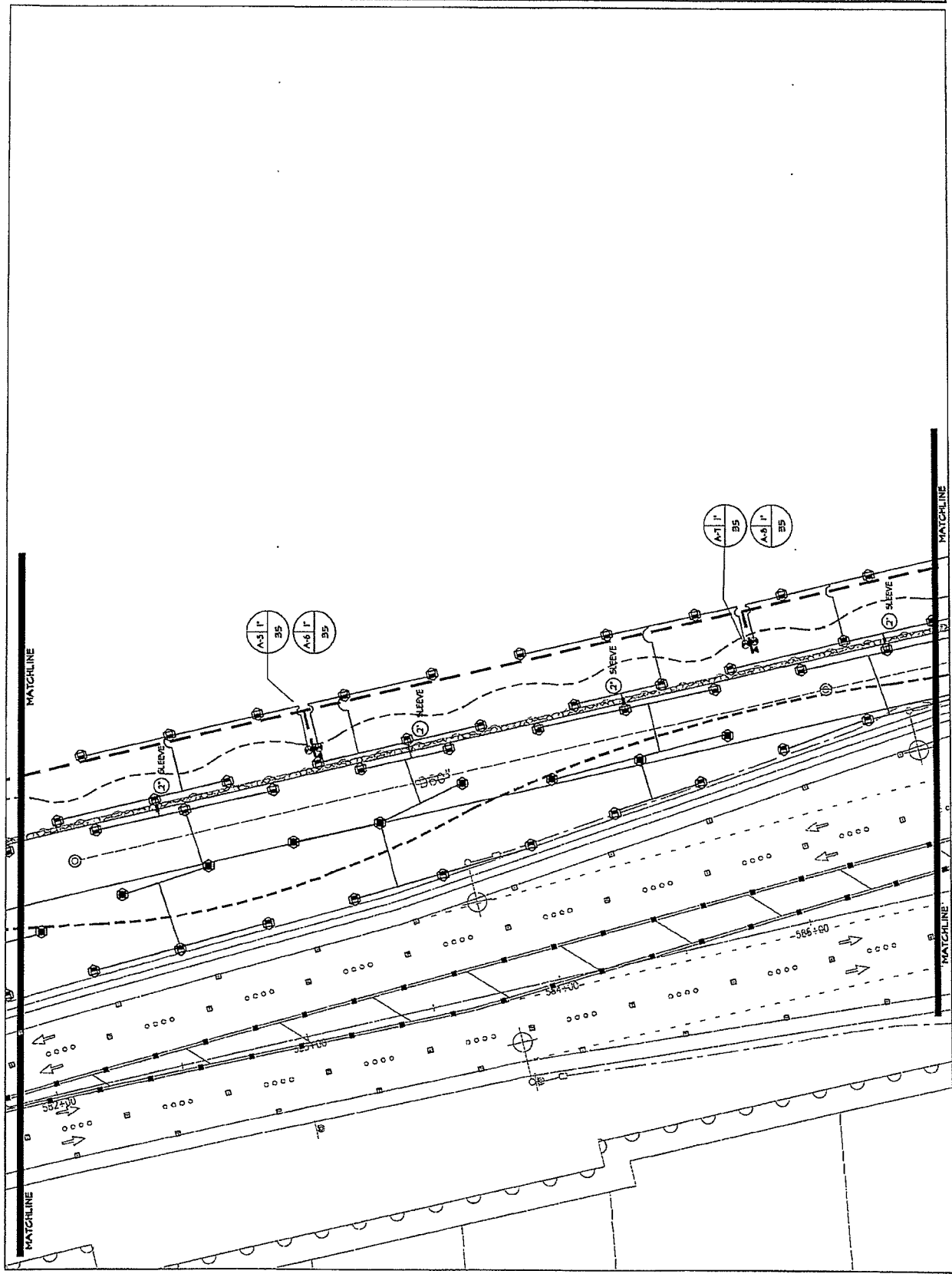
**KAONOUULU MARKET PLACE**  
 Kihou, Maui, Hawaii  
 (2) 2-02 Por of 15 and (2) 3-9-01:16

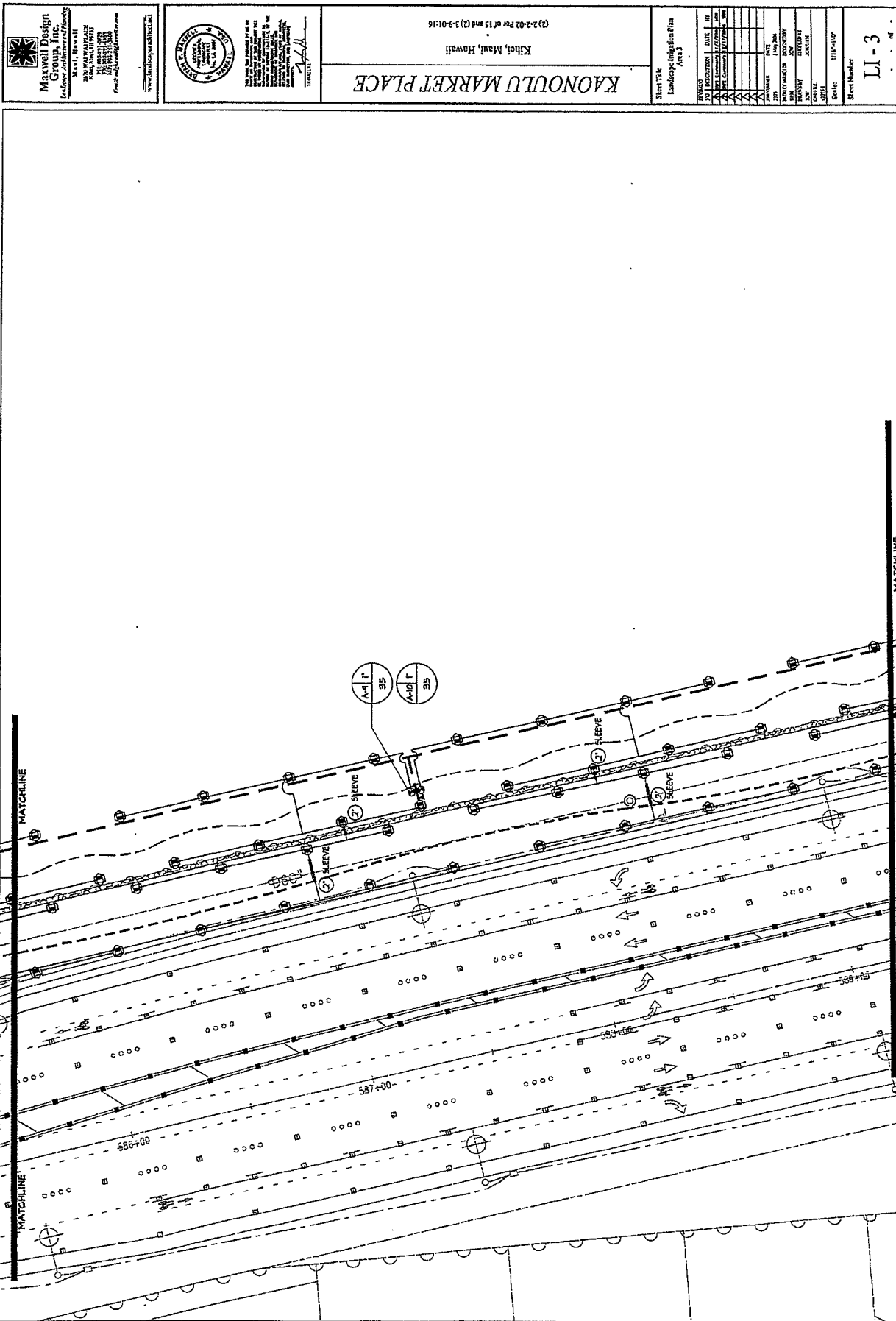
Sheet Title: Landscape Irrigation Plan  
 Area: 8

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| NO. | DATE     | BY |
| 1   | 11/11/08 | MM |
| 2   | 11/11/08 | MM |
| 3   | 11/11/08 | MM |
| 4   | 11/11/08 | MM |
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| 99  | 11/11/08 | MM |
| 100 | 11/11/08 | MM |

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

Sheet Number: LI-2







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Professional Engineer  
State of Hawaii  
No. 11000  
Exp. 12/31/2010

**KAONOLU MARKET PLACE**

Kilauea, Maui, Hawaii

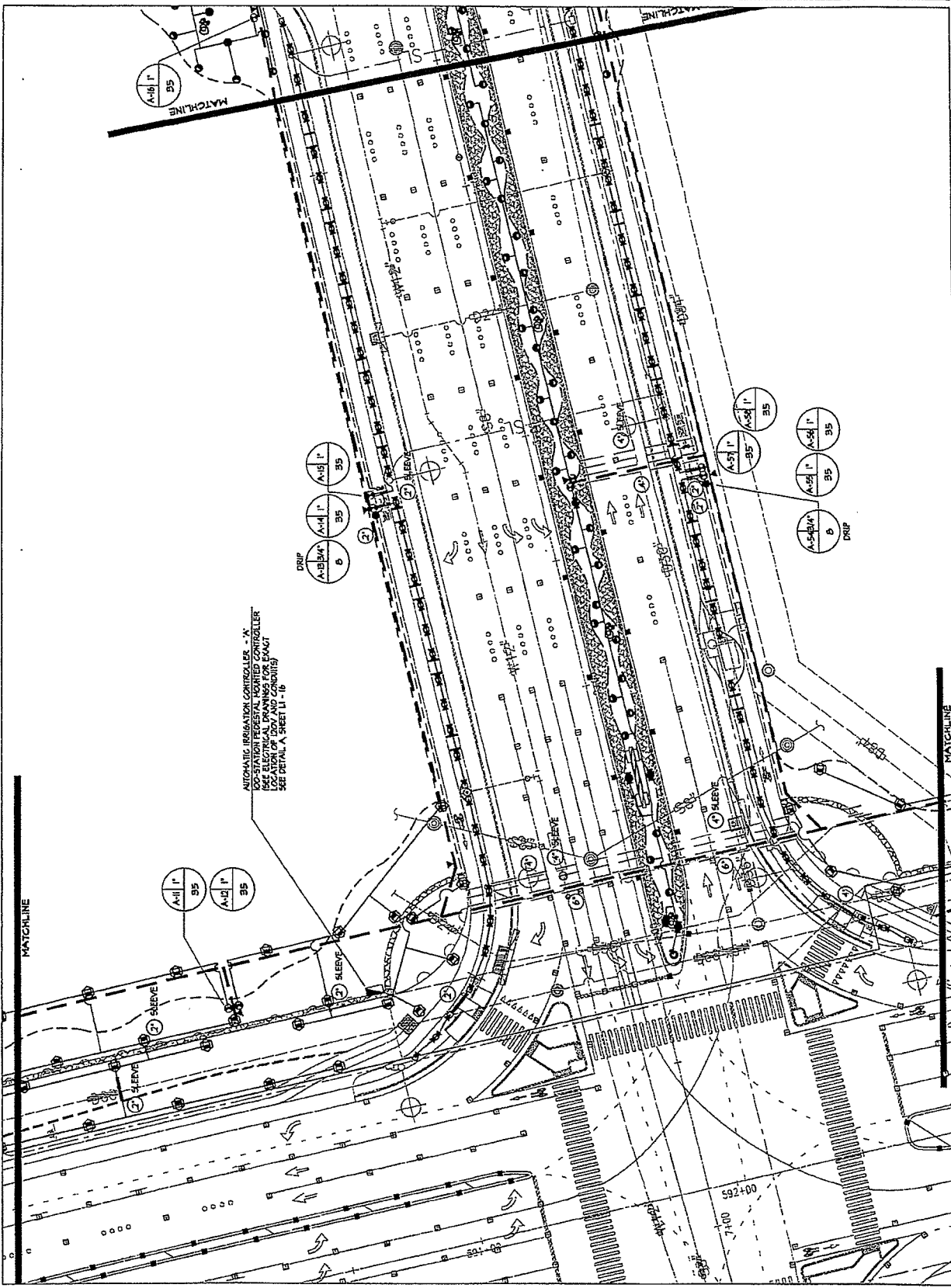
(2) 2'-0" Port 15 and (2) 3'-0" 16

Sheet Title  
Landscape Irrigation Plan  
Area A

| NO. | DESCRIPTION | DATE     | BY |
|-----|-------------|----------|----|
| 1   | PRELIMINARY | 11/17/09 | MM |
| 2   | REVISED     | 11/17/09 | MM |
| 3   | REVISED     | 11/17/09 | MM |

|                  |              |
|------------------|--------------|
| DESIGNER         | DATE         |
| PROJECT/LOCATION | 11/17/09     |
| BY               | MM           |
| CHECKED          | MM           |
| DATE             | 11/17/09     |
| SCALE            | 1/8" = 1'-0" |

Sheet Number  
**LI-4**



**Maxwell Design Group, Inc.**  
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**Professional Engineer**  
 State of Hawaii  
 License No. 10000  
 Name: *[Signature]*  
 Title: *[Signature]*

**KAONOU LU MARKET PLACE**  
 Kihiti, Maui, Hawaii  
 (2) 2-02 Porol 15 and (2) 3-01:16

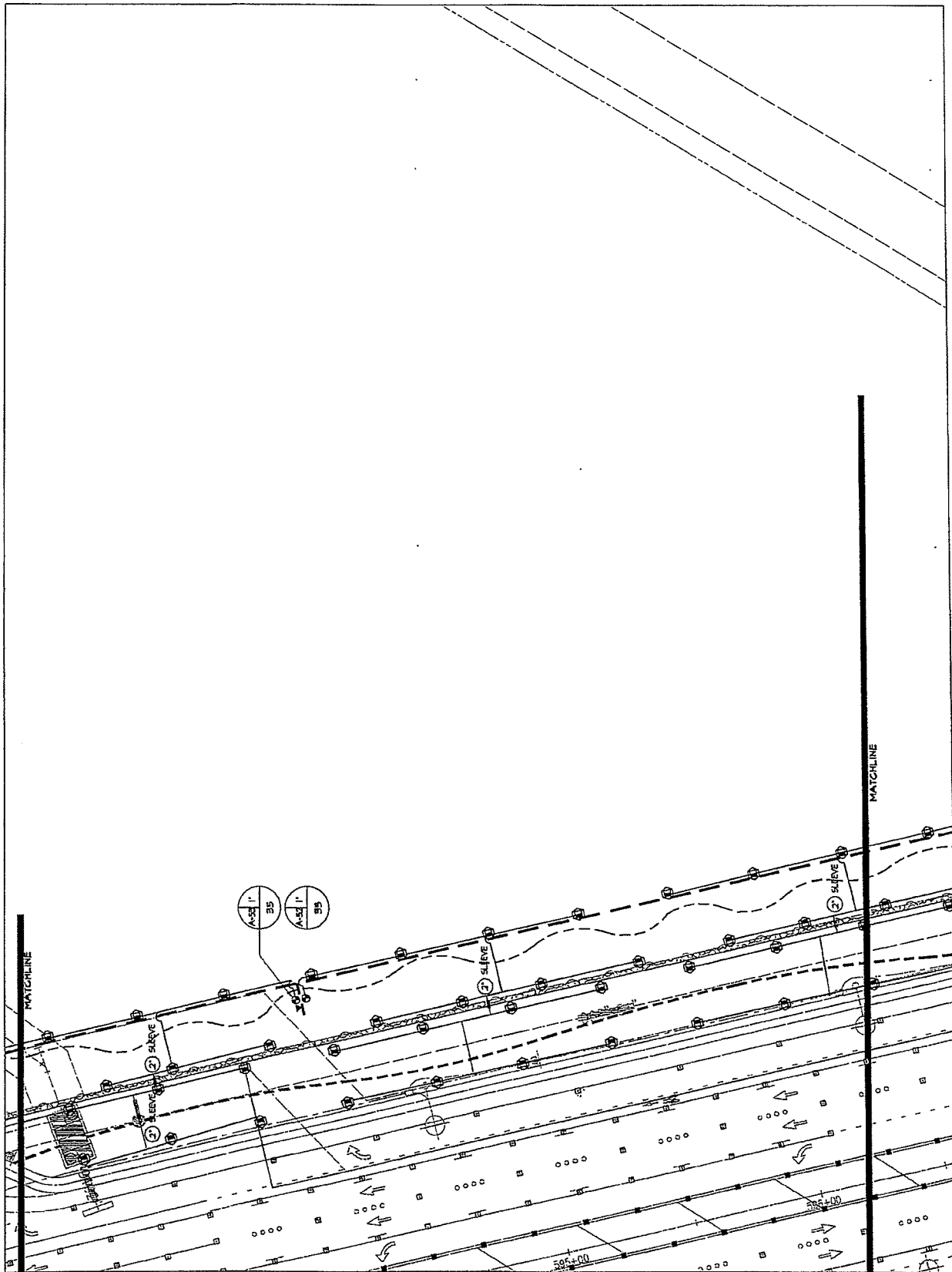
Sheet Title: Landscape Irrigation Plan  
 Area: 5

| NO. | DESCRIPTION            | DATE       | BY | CHKD |
|-----|------------------------|------------|----|------|
| 1   | Issue for Review       | 11/17/2011 | MM | MM   |
| 2   | Issue for Construction | 11/17/2011 | MM | MM   |

| REVISION | DATE       | BY | CHKD |
|----------|------------|----|------|
| 1        | 11/17/2011 | MM | MM   |
| 2        | 11/17/2011 | MM | MM   |

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

Sheet Number: LI-5





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Professional Engineer  
State of Hawaii  
No. 11111  
Exp. 12/31/2016

**KAONOUULU MARKET PLACE**

Kilauea, Maui, Hawaii

(2) 2-2-02 Per 015 and (2) 3-9-01:16

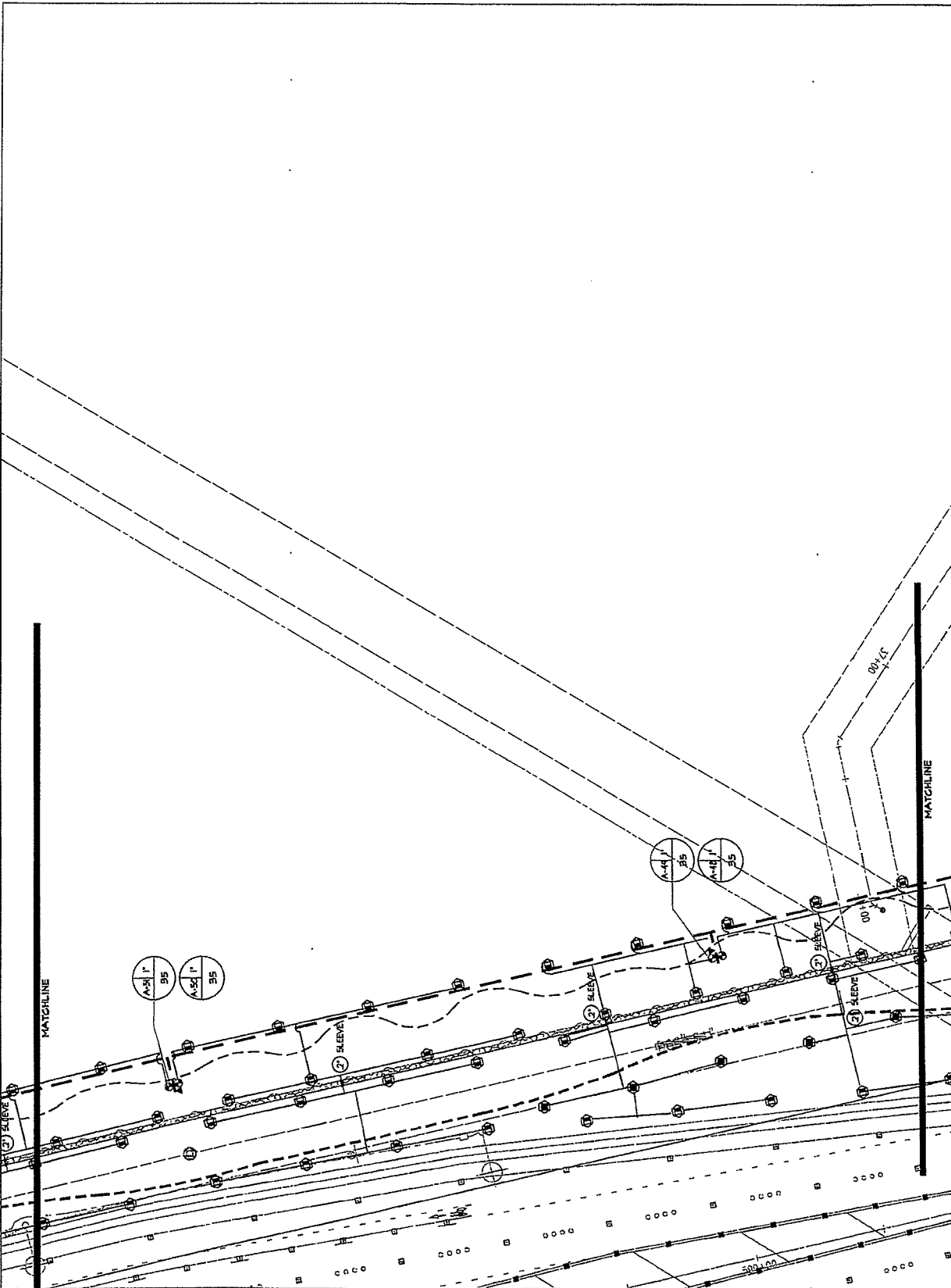
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**Landscape Irrigation Plan**  
Area 6

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| 2   | REVISED     | 11/11/2015 | MM |
| 3   | REVISED     | 11/11/2015 | MM |

| PROJECT                | DATE       | BY |
|------------------------|------------|----|
| KAONOUULU MARKET PLACE | 11/11/2015 | MM |

Scale: 3/16"=1'-0"

Sheet Number: LI-6



**Maxwell Design Group, Inc.**  
 Landscape Architecture & Planning  
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 www.maxwelldesign.com

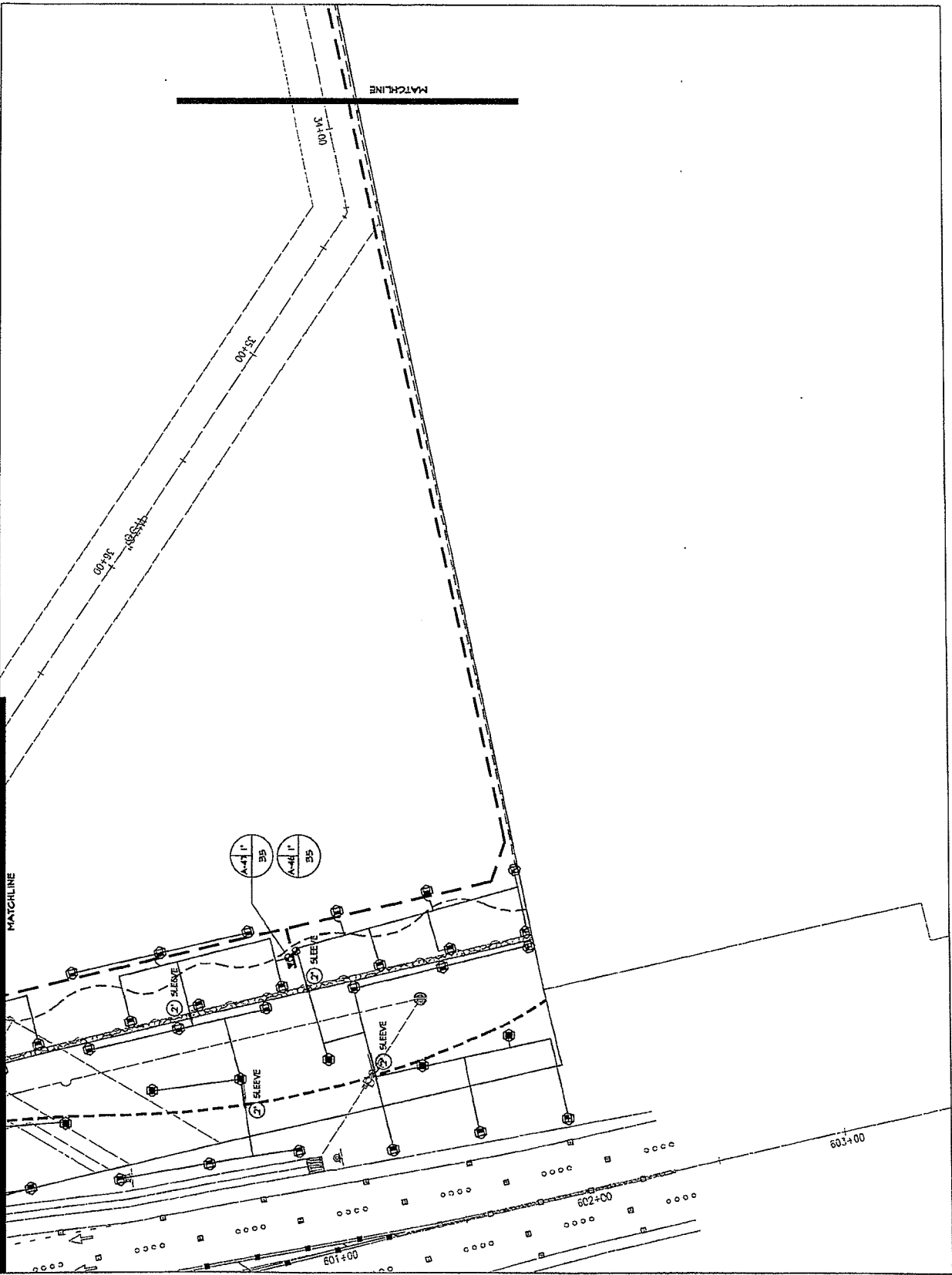
**Professional Engineer**  
 State of Hawaii  
 License No. 10100  
 Seal of the State of Hawaii  
 Department of Land and Natural Resources  
 Division of Professional Regulation  
 100 South King Street, Suite 200  
 Honolulu, HI 96813

**KAONOLU MARKET PLACE**  
 Kihel, Maui, Hawaii  
 (2) 2-2-01 For 15 and (2) 3-9-01:16

Sheet Title: Landscape Irrigation Plan  
 Date: June 7

| NO. | DESCRIPTION | DATE     | BY |
|-----|-------------|----------|----|
| 1   | PRELIMINARY | 06/07/07 | MM |
| 2   | REVISED     | 06/07/07 | MM |
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Sheet Number: 11-7



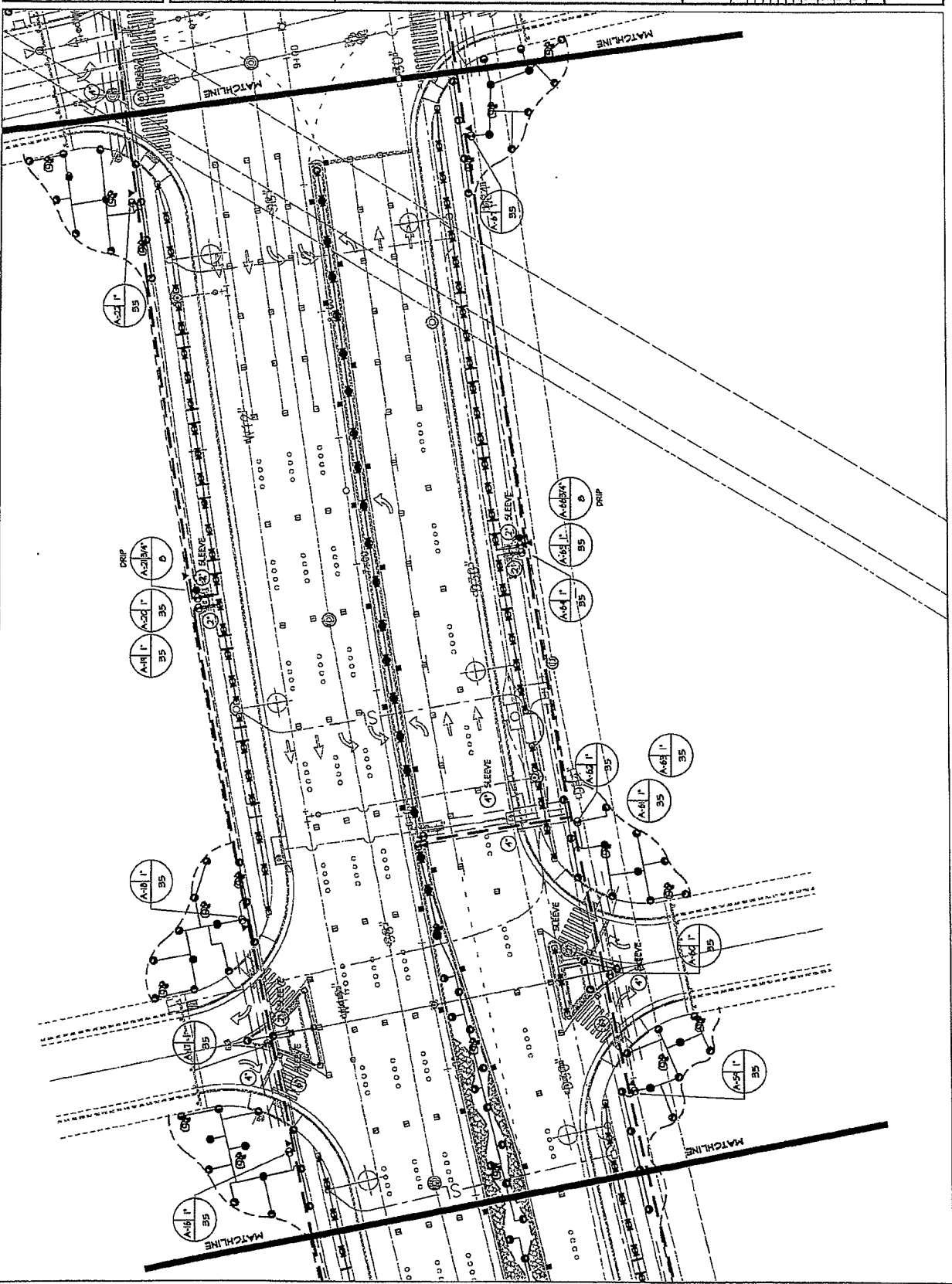
**Maxwell Design Group, Inc.**  
 Landscape Architecture and Planning  
 1111 W. 1st St., Suite 100  
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PROJECT  
 KAHALA, MAUI, HAWAII  
 (2) 2-012 Part of 15 and (2) 1-9-01:16

# KAONOLU MARKET PLACE

|                  |                           |
|------------------|---------------------------|
| Sheet Title      | Landscape Irrigation Plan |
| Scale            | As Shown                  |
| Drawn By         | 10/14/01                  |
| Checked By       | 10/14/01                  |
| Reviewed By      | 10/14/01                  |
| Approved By      | 10/14/01                  |
| Project Name     | KAONOLU MARKET PLACE      |
| Project Location | KAHALA, MAUI, HAWAII      |
| Project Number   | 10000                     |
| Sheet Number     | LI-8                      |



**Manuel Design Group, Inc.**  
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 2025 KALI PALACE  
 SUITE 200  
 1515 KALI PALACE DRIVE  
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 FAX: 808 531 1001  
 Email: info@manueldesign.com

**Professional Engineer**  
 State of Hawaii  
 License No. 10000  
 License Expiration Date: 12/31/2024

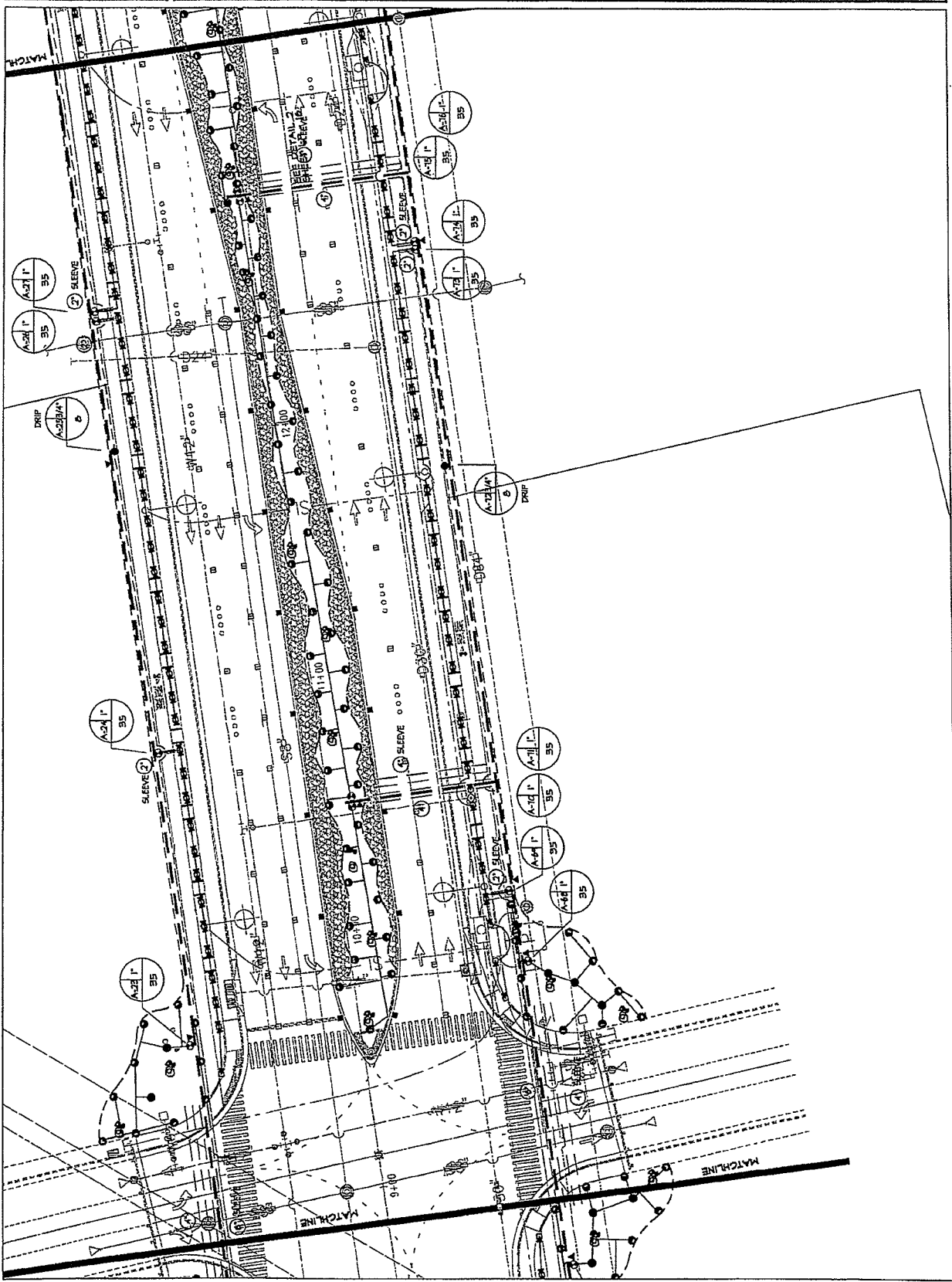
**KAONOULU MARKET PLACE**  
 Kiholo, Maui, Hawaii  
 (2) 2-22 Per of 15 and (2) 3-9-01:16

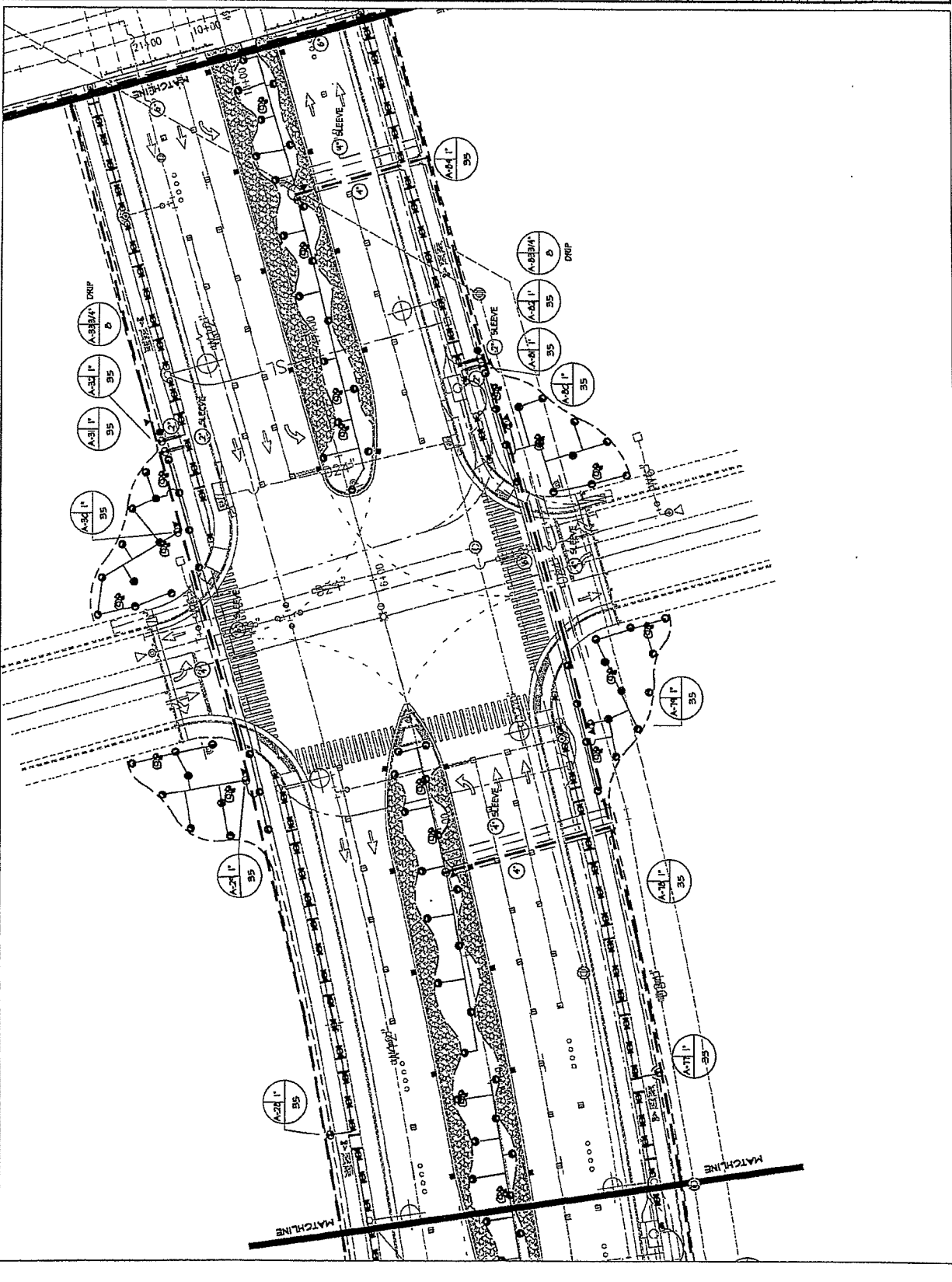
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 Area 9

| NO. | REVISION       | DATE       | BY |
|-----|----------------|------------|----|
| 1   | Initial Design | 11/17/2023 | MM |
| 2   | Revised Design | 11/17/2023 | MM |
| 3   | Final Design   | 11/17/2023 | MM |

DESIGNED BY: MM  
 CHECKED BY: MM  
 PROJECT NO.: 23-001  
 SCALE: 1/8" = 1'-0"

Sheet Number: LI-9





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Robert A. Maxwell  
 Professional Engineer  
 State of Hawaii  
 License No. 10000

**KAONOULU MARKET PLACE**  
 Kiheti, Maui, Hawaii  
 (2) 2-2-02 Per 015 and (2) 3-9-01:16

**Sheet Title:**  
 Landscape Irrigation Plan  
 Area 10

| NO. | DESCRIPTION | DATE     | BY  |
|-----|-------------|----------|-----|
| 1   | DESIGN      | 11/17/01 | RAM |
| 2   | REVISE      | 11/17/01 | RAM |
| 3   | REVISE      | 11/17/01 | RAM |

| NO. | DESCRIPTION | DATE     | BY  |
|-----|-------------|----------|-----|
| 1   | DESIGN      | 11/17/01 | RAM |
| 2   | REVISE      | 11/17/01 | RAM |
| 3   | REVISE      | 11/17/01 | RAM |

PROJECT DIRECTOR: ROBERT A. MAXWELL  
 PROJECT MANAGER: ROBERT A. MAXWELL  
 DESIGNER: ROBERT A. MAXWELL  
 CHECKER: ROBERT A. MAXWELL  
 UTILITY: ROBERT A. MAXWELL

Scale: 1/8" = 1'-0"  
 Sheet Number: LJ-10 of



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Fax: 808-551-1001  
Email: maxwell@maxwellgroup.com

**KAONOLU MARKET PLACE**

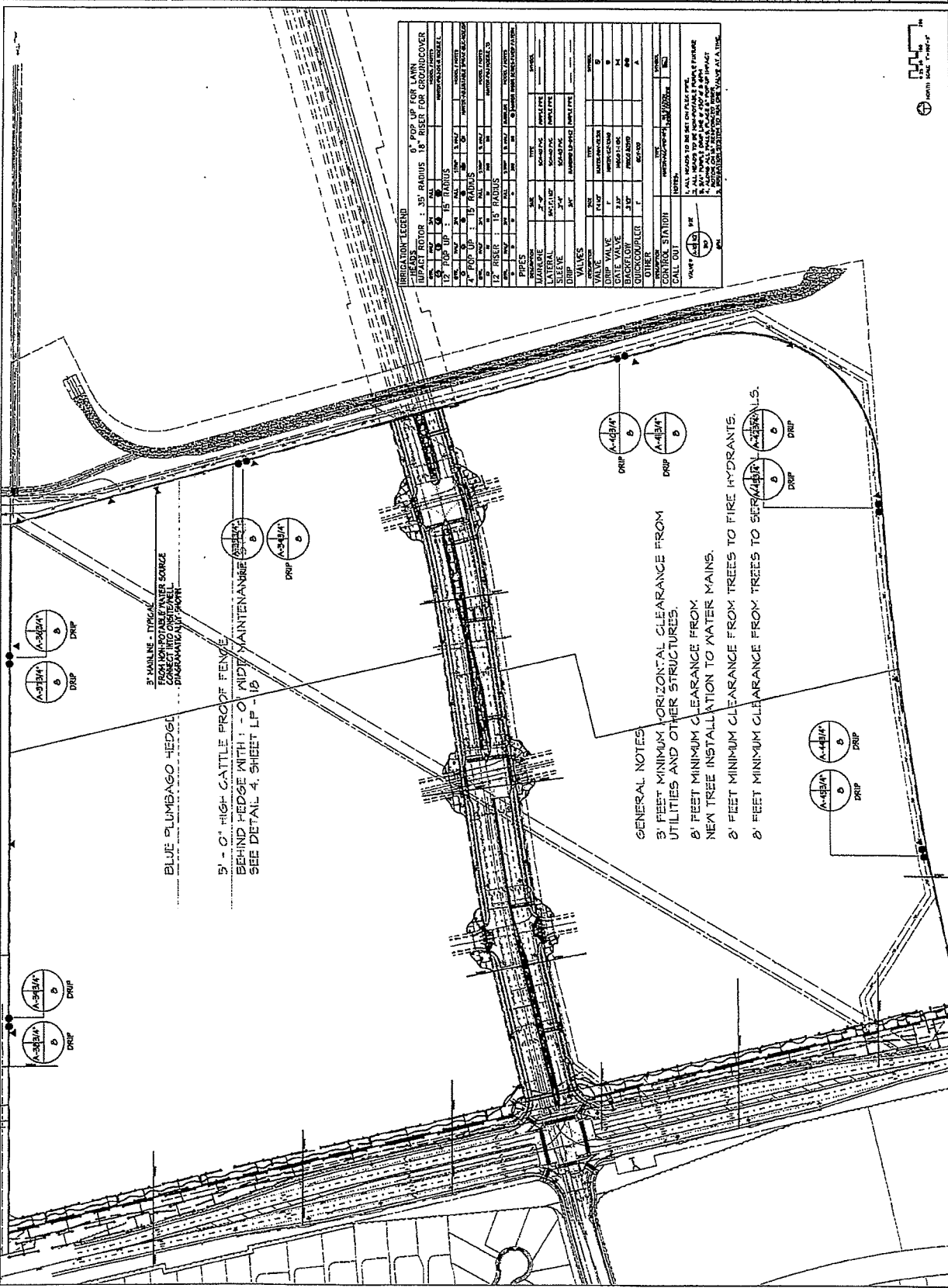
Kihikihi, Maui, Hawaii

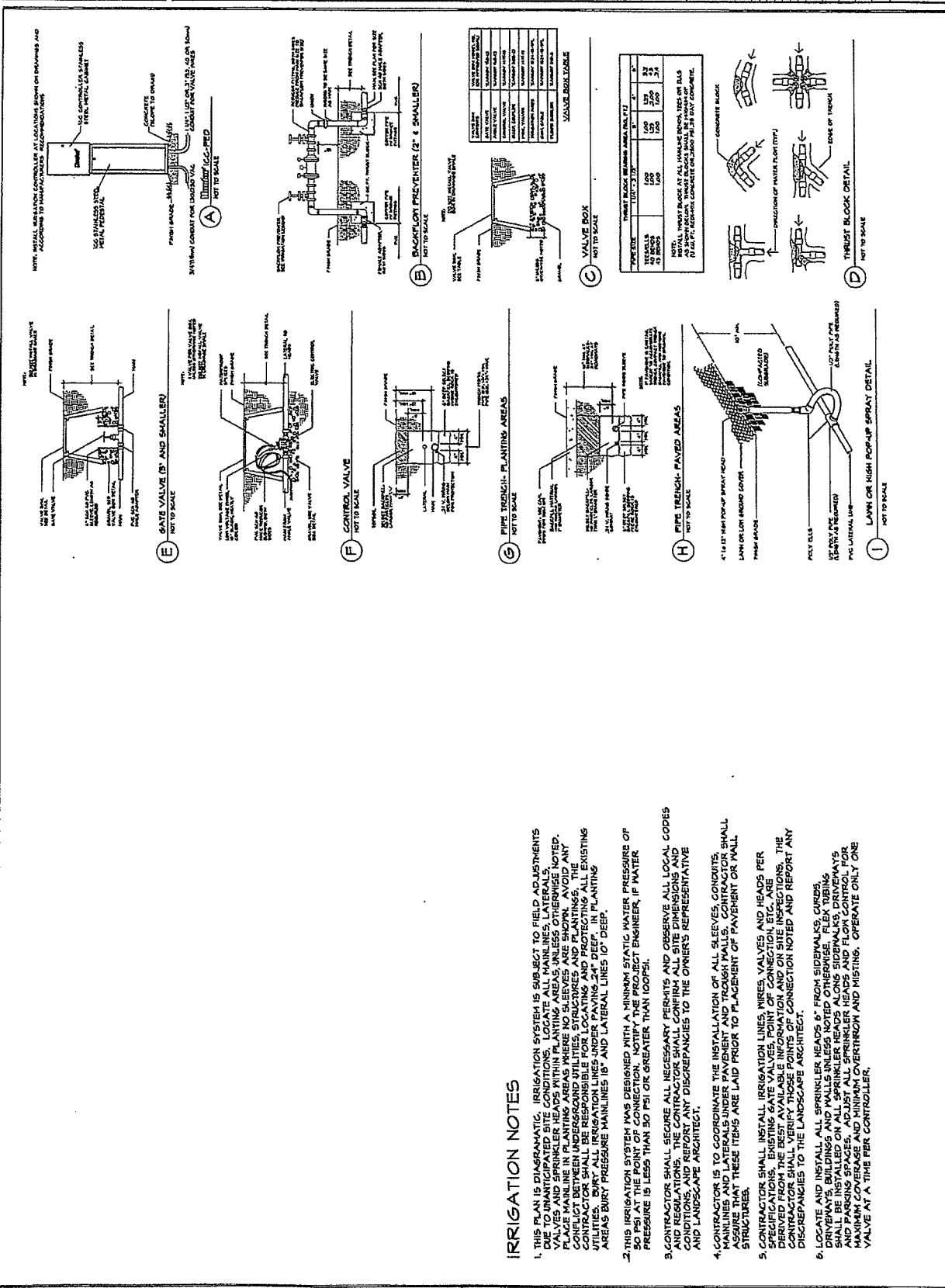
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Sheet Title  
Landscape Irrigation Plan  
Site Layout

Scale: 1" = 4' - 0"

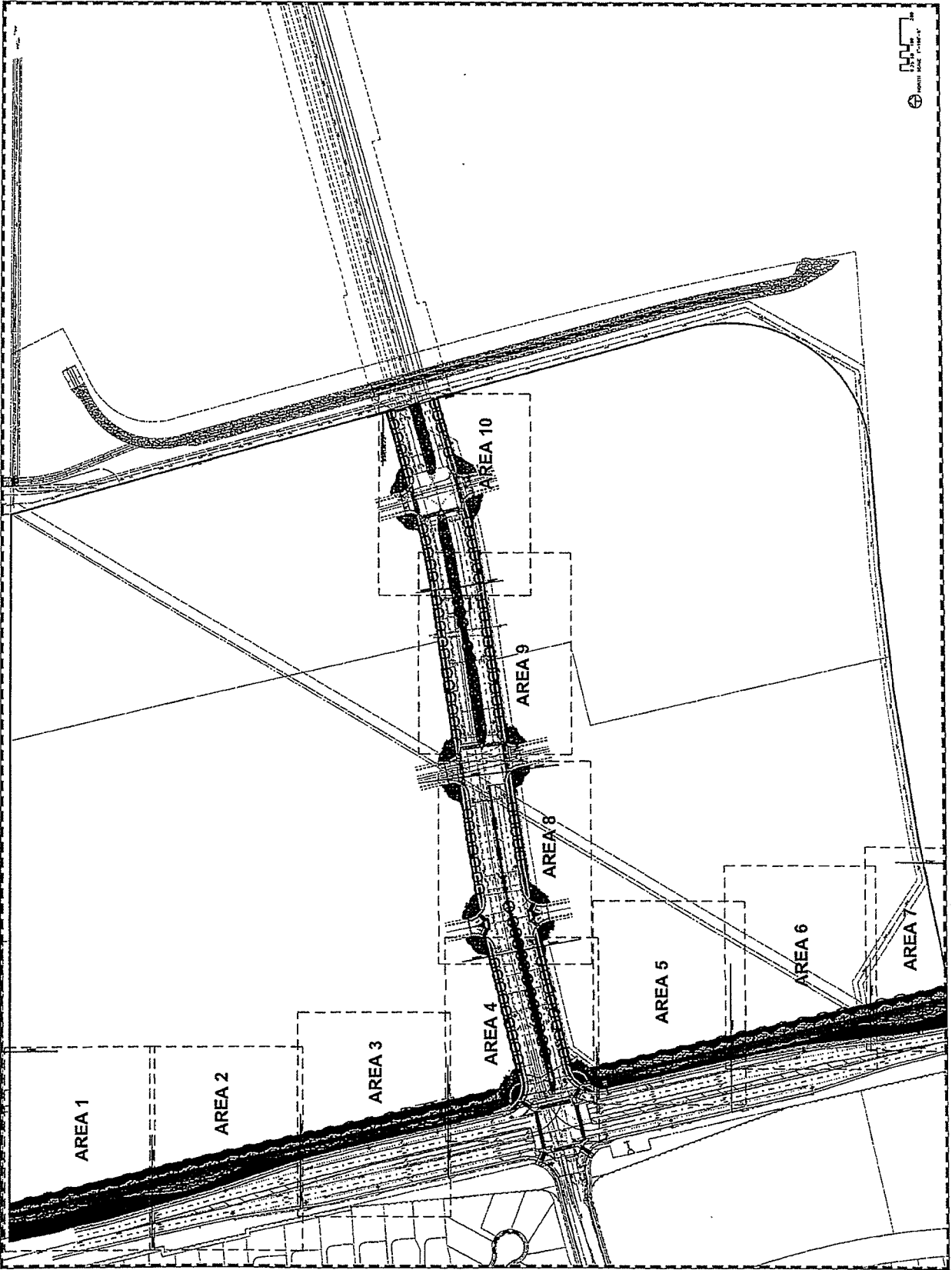
Sheet Number: LI-11





### IRRIGATION NOTES

1. THIS PLAN IS DIAGNOSTIC. IRRIGATION SYSTEM IS SUBJECT TO FIELD ADJUSTMENTS DUE TO UNANTICIPATED SITE CONDITIONS. LOCATE ALL MAINLINES, LATERALS, VALVES AND SPRINKLER HEADS WITHIN PLANTING AREAS, UNLESS OTHERWISE NOTED. PLACE MAINLINE IN PLANTING AREAS AND LATERALS IN PLANTING AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. BURY ALL IRRIGATION LINES UNDER PAVING 24" DEEP. IN PLANTING AREAS BURY PRESSURE MAINLINES 18" AND LATERAL LINES 10" DEEP.
2. THIS IRRIGATION SYSTEM WAS DESIGNED WITH A MINIMUM STATIC WATER PRESSURE OF 30 PSI AT THE POINT OF CONNECTION. NOTIFY THE PROJECT ENGINEER, IF WATER PRESSURE IS LESS THAN 30 PSI OR GREATER THAN 100 PSI.
3. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND OBSERVE ALL LOCAL ORDINANCES AND REGULATIONS. NOTIFY THE PROJECT ENGINEER, IF WATER PRESSURE IS LESS THAN 30 PSI OR GREATER THAN 100 PSI.
4. CONTRACTOR IS TO COORDINATE THE INSTALLATION OF ALL SLEEVES, CONDUITS, AND PIPES WITHIN PLANTING AREAS. CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT TO ENSURE THAT THESE ITEMS ARE LAID PRIOR TO PLACEMENT OF PAVEMENT OR WALL STRUCTURES.
5. CONTRACTOR SHALL INSTALL IRRIGATION LINES, WIRING, VALVES, HEADS PER SPECIFICATIONS. EXISTING GATE VALVES, POINT OF CONNECTION, ETC., ARE DERIVED FROM THE BEST AVAILABLE INFORMATION AND ON SITE INSPECTIONS. THE CONTRACTOR SHALL VERIFY THOSE POINTS OF CONNECTION NOTED AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
6. LOCATE AND INSTALL ALL SPRINKLER HEADS 6" FROM SIDEWALKS, CURBS, DRIVEWAYS, BUILDINGS AND WALLS UNLESS NOTED OTHERWISE. LOCATE SPRINKLER HEADS 6" FROM SIDEWALKS, CURBS, DRIVEWAYS, BUILDINGS AND WALLS UNLESS NOTED OTHERWISE. ADJUST ALL SPRINKLER HEADS AND FLOW CONTROL FOR MAXIMUM COVERAGE AND MINIMUM OVERTHROW AND MISTING. OPERATE ONLY ONE VALVE AT A TIME PER CONTROLLER.



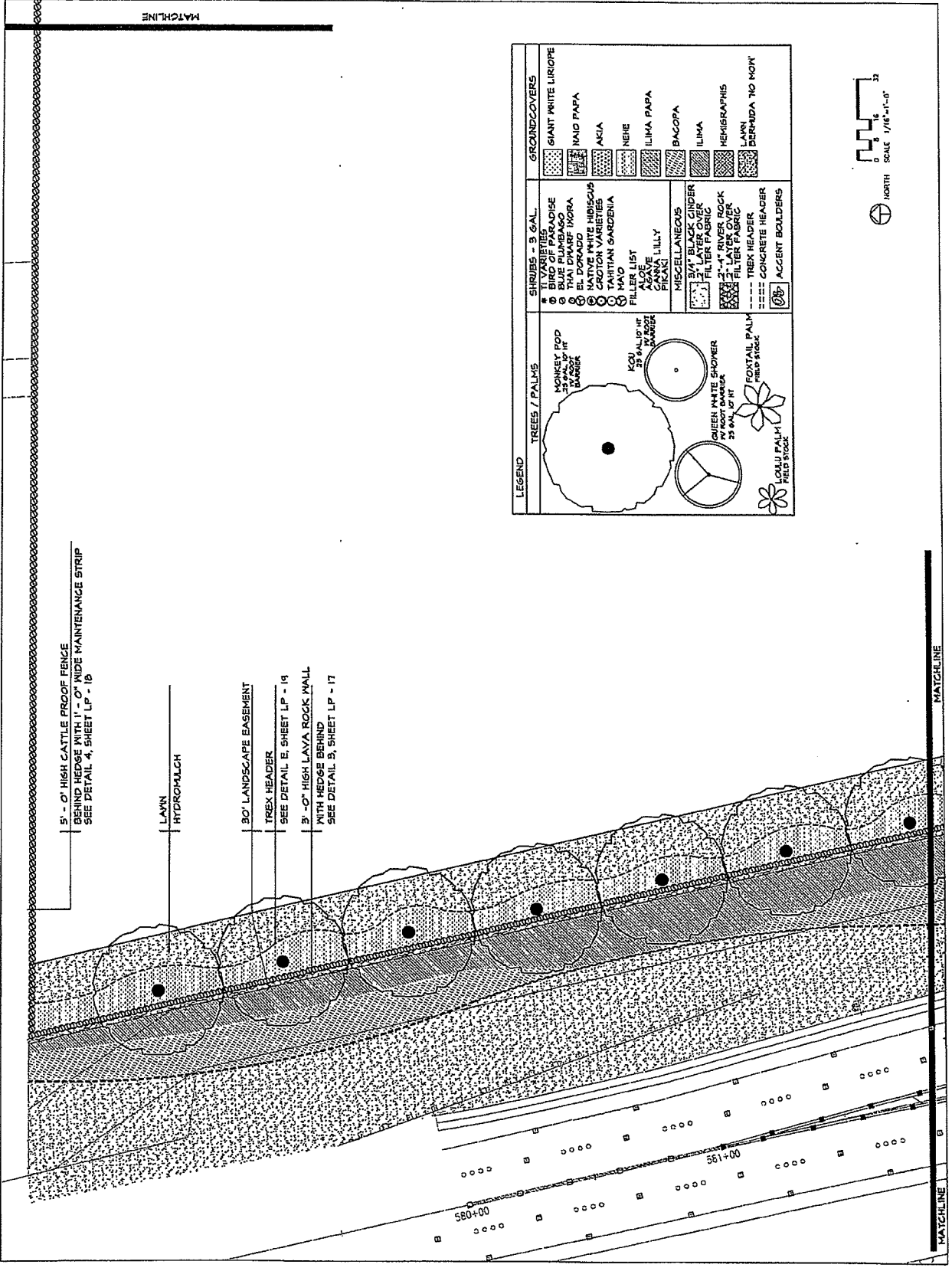
**Maxwell Design Group, Inc.**  
 Landscape Architecture and Planning  
 1111 Kalia Road, Suite 100  
 Honolulu, HI 96813  
 Phone: (808) 944-1111  
 Fax: (808) 944-1112  
 Email: info@maxwelldesign.com  
 Website: www.maxwelldesign.com

**Professional Engineer**  
 State of Hawaii  
 License No. 10000  
 Name: [Signature]  
 Title: [Signature]

**KAONOU LU MARKET PLACE**  
 Kirihi, Maui, Hawaii  
 (2) 2-2-02 For 0.15 and (2) 3-9-01-16

|              |                         |
|--------------|-------------------------|
| Sheet Title  | Landscape Planning Plan |
| Sheet Layout | Sheet Layout            |
| Revision     | DATE BY                 |
| 1            | 11/11/01 JLD            |
| 2            | 11/11/01 JLD            |
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| 100          | 11/11/01 JLD            |

Sheet Number  
**LP - SITE**  
 of



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**KAONOULU MARKET PLACE**

Kihei, Maui, Hawaii

(2) 2-02 For 15 and (3) 3-01.16

Sheet Title  
Landscape Planting Plan  
Area 1

| PLANT         | QUANTITY | DATE | BY |
|---------------|----------|------|----|
| ALL PLANTINGS | 1/1/2016 | MS   |    |
| ALL PLANTINGS | 1/1/2016 | MS   |    |
| ALL PLANTINGS | 1/1/2016 | MS   |    |

Sheet Number  
**LP-1**

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

North Arrow

| LEGEND | TREES / PALMS                           | SHRUBS - 3 GAL.       | GROUNDCOVERS        |
|--------|-----------------------------------------|-----------------------|---------------------|
|        | MONKEY POD<br>25 GAL OF RT              | BIRD OF PARADISE      | GIANT WHITE LIRIOPE |
|        | QUEEN WHITE SHOWER<br>14" ROOT DIAMETER | THA CHAI MOHRA        | NAID PAPA           |
|        | FOXTAIL PALM<br>FIELD STOCK             | EL CROCOD             | AKIA                |
|        |                                         | NATIVE WHITE HIBISCUS | NEHE                |
|        |                                         | CROTON VARIETIES      | ILIMA PAPA          |
|        |                                         | TAHITIAN GARDENIA     | BACOPA              |
|        |                                         | MAO                   | ILIMA               |
|        |                                         | FILLER LIST           | HEMIGRAPHIS         |
|        |                                         | ASSOCIATED            | LAWN                |
|        |                                         | PLANT LILLY           | BERBERIS            |
|        |                                         | MISCELLANEOUS         |                     |
|        |                                         | 2" LAYER OVER         |                     |
|        |                                         | 2" RIVER ROCK         |                     |
|        |                                         | 2" FILTER FABRIC      |                     |
|        |                                         | 2" TREX HEADERS       |                     |
|        |                                         | CONCRETE BOLDERS      |                     |

5'-0" HIGH CATTLE PROOF FENCE  
BEHIND HEDGE WITH 1'-0" WIDE MAINTENANCE STRIP  
SEE DETAIL 4, SHEET LP - 18

LAWN  
HYDROMULCH

30' LANDSCAPE EASEMENT  
TREX HEADER  
SEE DETAIL E, SHEET LP - 19

3'-0" HIGH LAVA ROCK WALL  
WITH HEDGE BEHIND  
SEE DETAIL 5, SHEET LP - 17



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www.maxwelldesign.com



STATE OF HAWAII  
LANDSCAPE ARCHITECT  
No. 12345  
Exp. 12/31/2024

**KAONOU LU MARKET PLACE**

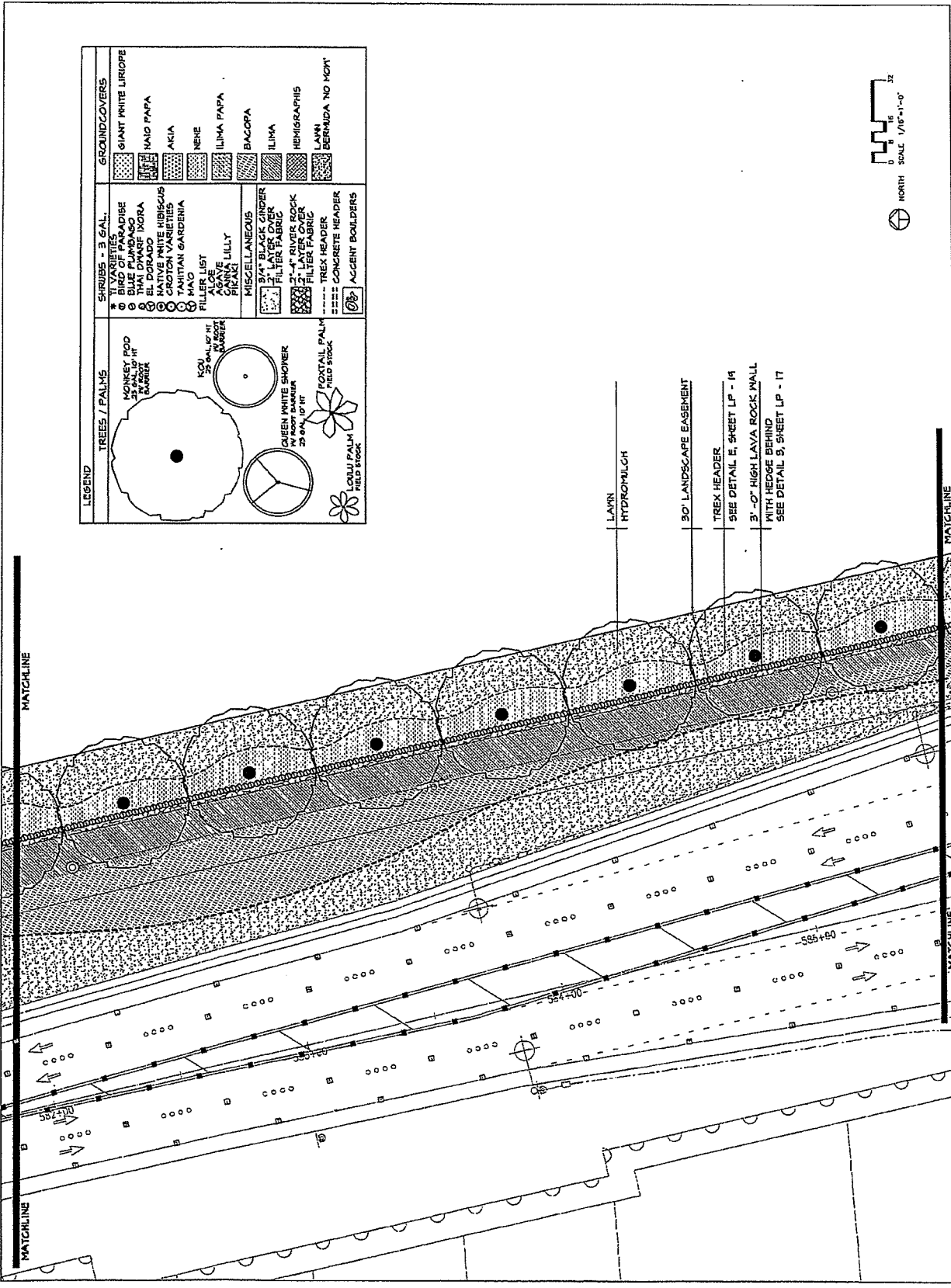
Kihou, Maui, Hawaii

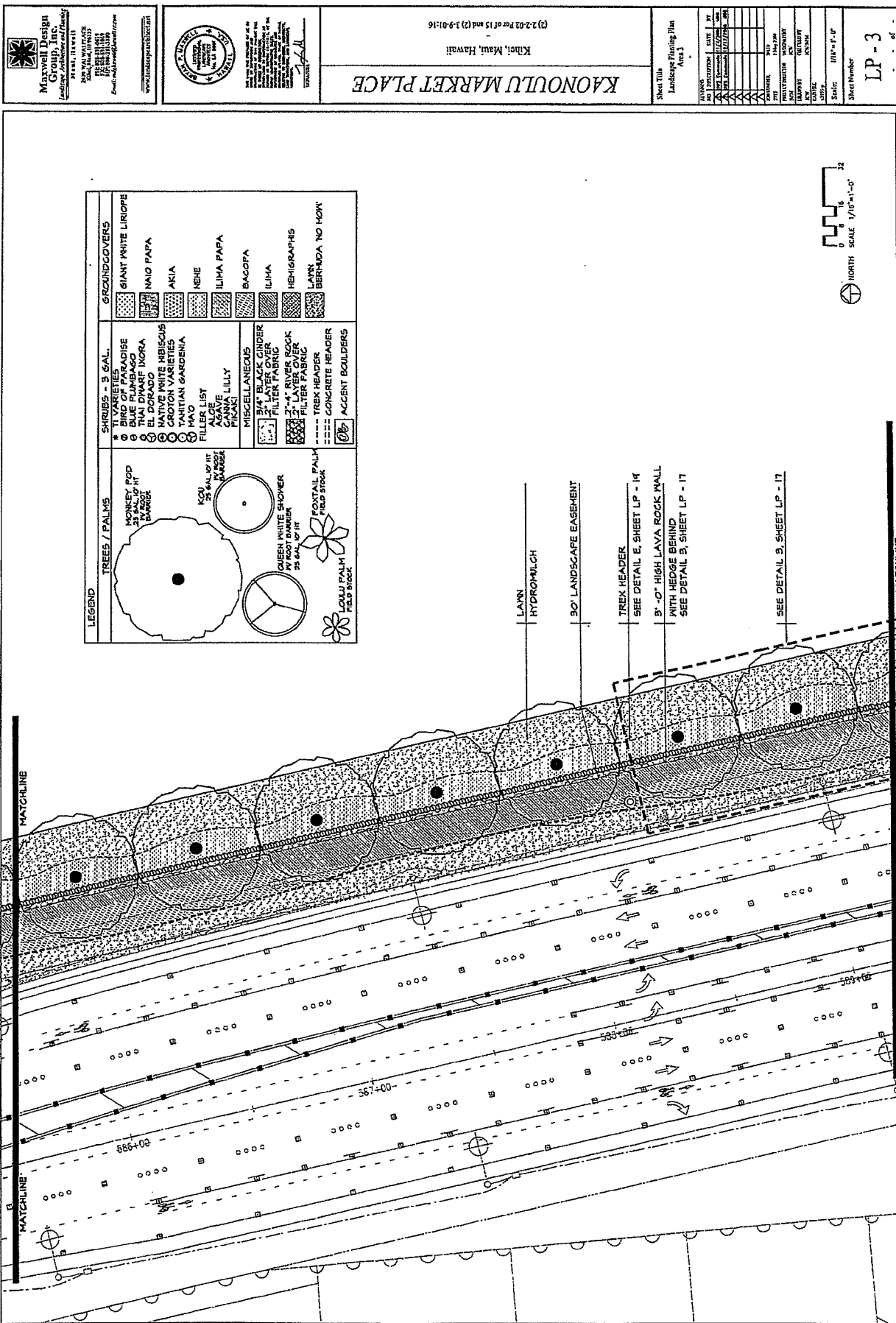
(2) 2-02 For of 15 and (2) 3-0116

Sheet Title  
Landscape Planting Plan  
Area 2

|            |    |            |    |
|------------|----|------------|----|
| DATE       | BY | REVISED    | BY |
| 12/12/2023 | JD | 12/12/2023 | JD |
| 12/12/2023 | JD | 12/12/2023 | JD |

PROJECT: KAONOU LU MARKET PLACE  
SHEET: LP-2  
SCALE: 1/8" = 1'-0"  
SHEET NUMBER: 2







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Email: info@maxwelldesign.com



Kihel, Maui, Hawaii  
(2) 2-02 For 15 and (2) 3-0-16

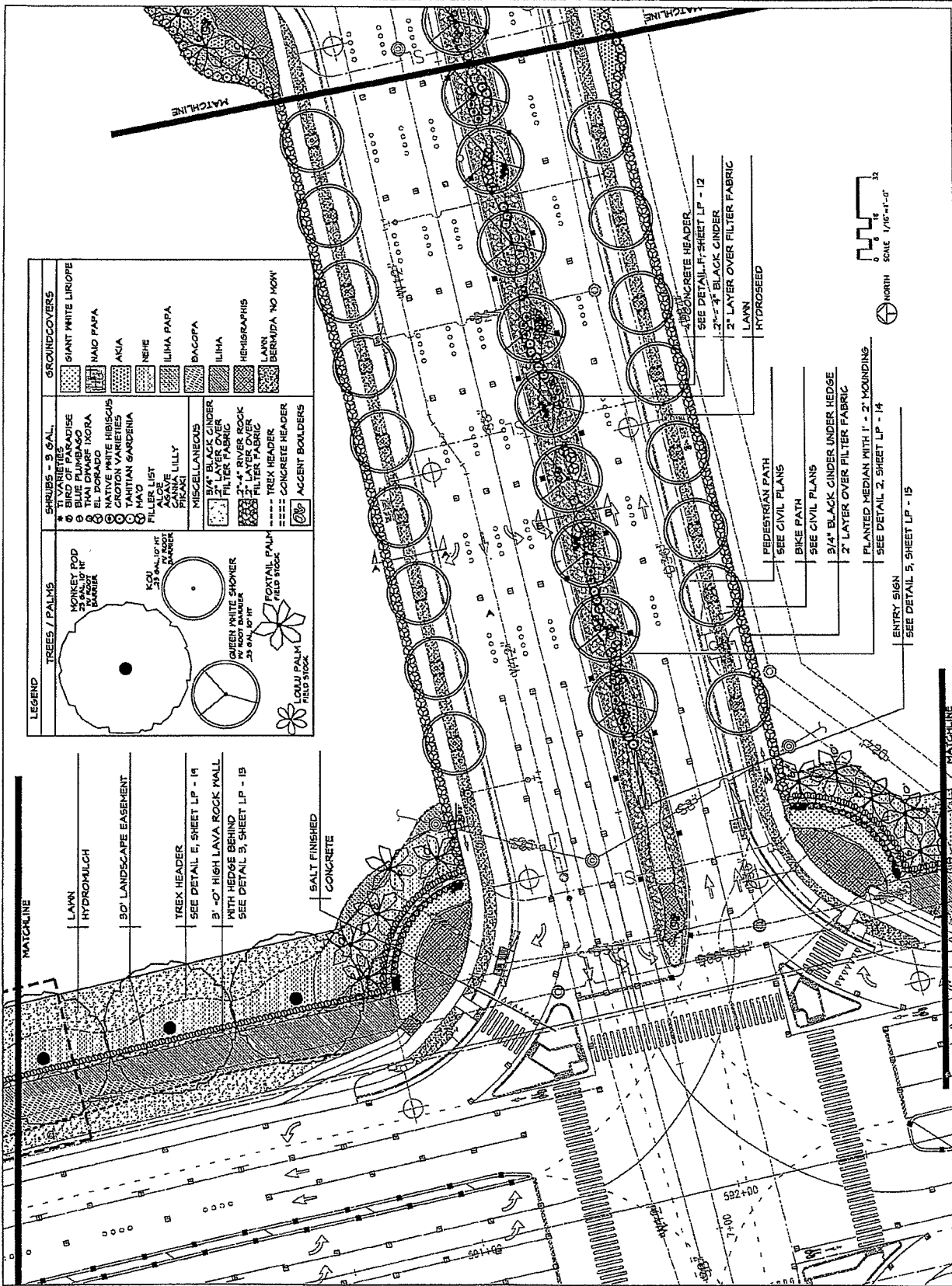
**KAONOU LU MARKET PLACE**

Sheet Title: Landscape Planning Plan  
Area 4

| NO. | DESCRIPTION | DATE       | BY |
|-----|-------------|------------|----|
| 1   | PRELIMINARY | 11/17/2014 | MM |
| 2   | REVISED     | 11/17/2014 | MM |
| 3   | REVISED     | 11/17/2014 | MM |
| 4   | REVISED     | 11/17/2014 | MM |
| 5   | REVISED     | 11/17/2014 | MM |
| 6   | REVISED     | 11/17/2014 | MM |
| 7   | REVISED     | 11/17/2014 | MM |
| 8   | REVISED     | 11/17/2014 | MM |
| 9   | REVISED     | 11/17/2014 | MM |
| 10  | REVISED     | 11/17/2014 | MM |

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

Sheet Number: **LP - 4**



**Manuel Design Group, Inc.**  
Landscape Architecture and Planning  
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Email: info@manueldesign.com

www.manueldesign.com



THESE PLANS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF HAWAII.

DATE: 11/15/16

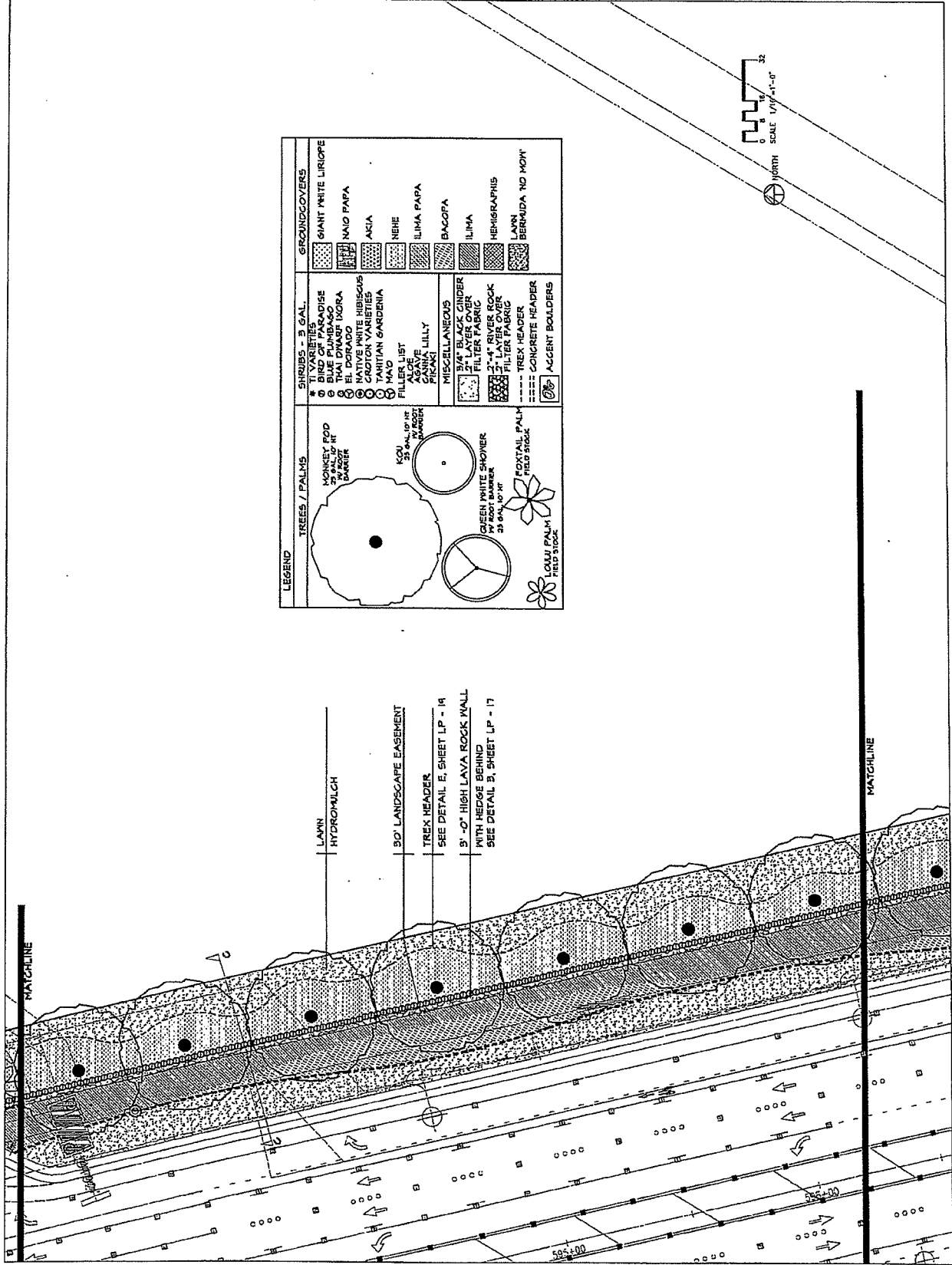
# KAONOLU MARKET PLACE

Kihikihi, Maui, Hawaii  
(2) 2-2-02 Port of 15 and (2) 3-9-01-16

Sheet Title  
Landscape Planting Plan  
Sheet 5

| REVISION | DATE     | BY  |
|----------|----------|-----|
| 1        | 11/15/16 | MAN |
| 2        | 11/15/16 | MAN |
| 3        | 11/15/16 | MAN |
| 4        | 11/15/16 | MAN |
| 5        | 11/15/16 | MAN |
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| 7        | 11/15/16 | MAN |
| 8        | 11/15/16 | MAN |
| 9        | 11/15/16 | MAN |
| 10       | 11/15/16 | MAN |
| 11       | 11/15/16 | MAN |
| 12       | 11/15/16 | MAN |
| 13       | 11/15/16 | MAN |
| 14       | 11/15/16 | MAN |
| 15       | 11/15/16 | MAN |
| 16       | 11/15/16 | MAN |
| 17       | 11/15/16 | MAN |
| 18       | 11/15/16 | MAN |
| 19       | 11/15/16 | MAN |
| 20       | 11/15/16 | MAN |

LP-5  
Sheet Number





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Email: info@maxwelldesign.com

KAONOLU MARKET PLACE

Kihikihi, Maui, Hawaii

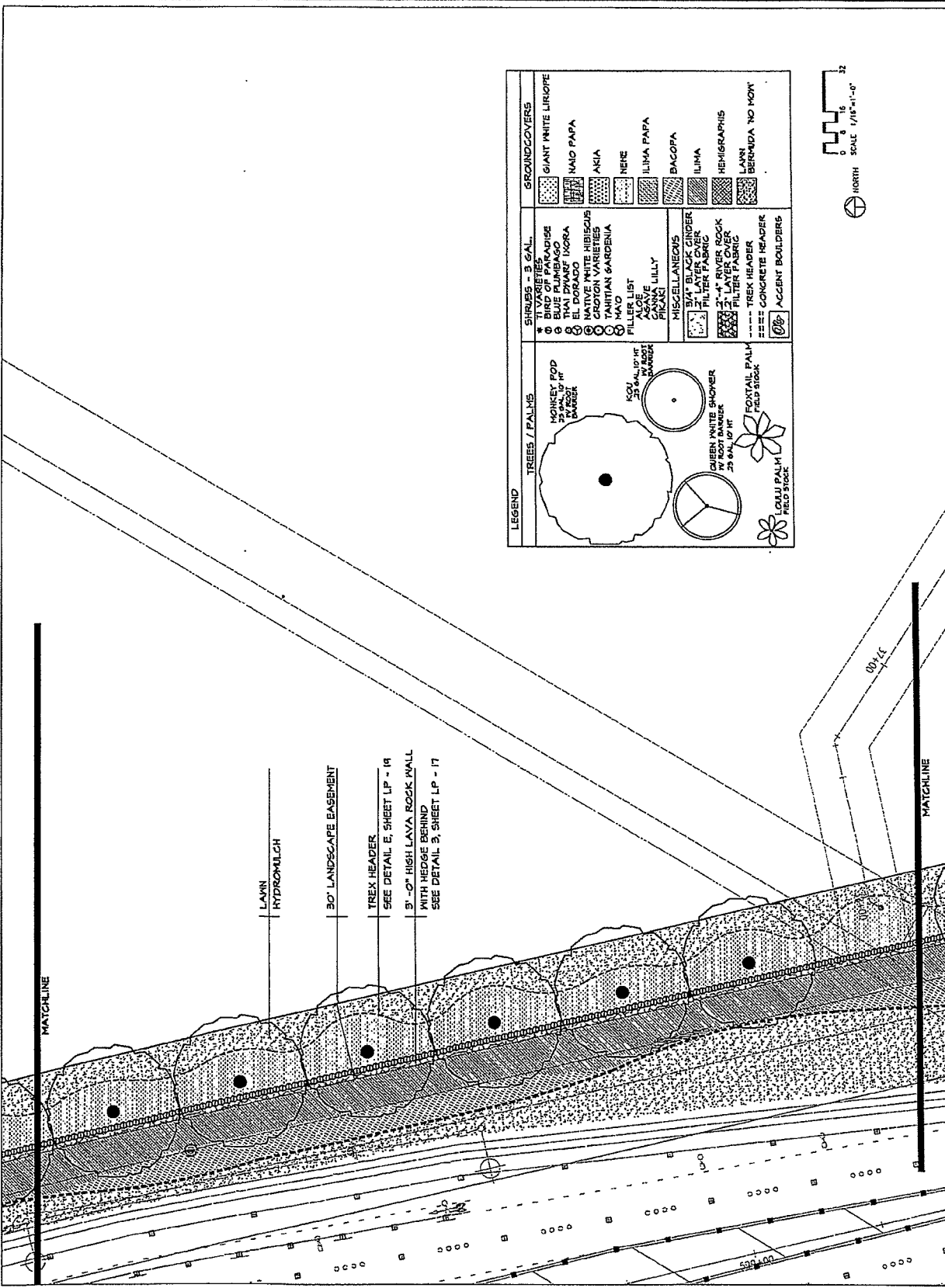
(2) 2-02 Rev of 15 and (3) 2-0-01-16

Sheet Title: Landscape Planning Plan Area 6

| NO. | DESCRIPTION | DATE    | BY |
|-----|-------------|---------|----|
| 1   | PRELIMINARY | 10/1/01 | MM |
| 2   | REVISED     | 10/1/01 | MM |
| 3   | REVISED     | 10/1/01 | MM |
| 4   | REVISED     | 10/1/01 | MM |
| 5   | REVISED     | 10/1/01 | MM |
| 6   | REVISED     | 10/1/01 | MM |
| 7   | REVISED     | 10/1/01 | MM |
| 8   | REVISED     | 10/1/01 | MM |
| 9   | REVISED     | 10/1/01 | MM |
| 10  | REVISED     | 10/1/01 | MM |

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

Sheet Number: LP-6



**Maxwell Design**  
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 Suite 100  
 Honolulu, HI 96813  
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 Email: maxwell@maxwelldesign.com

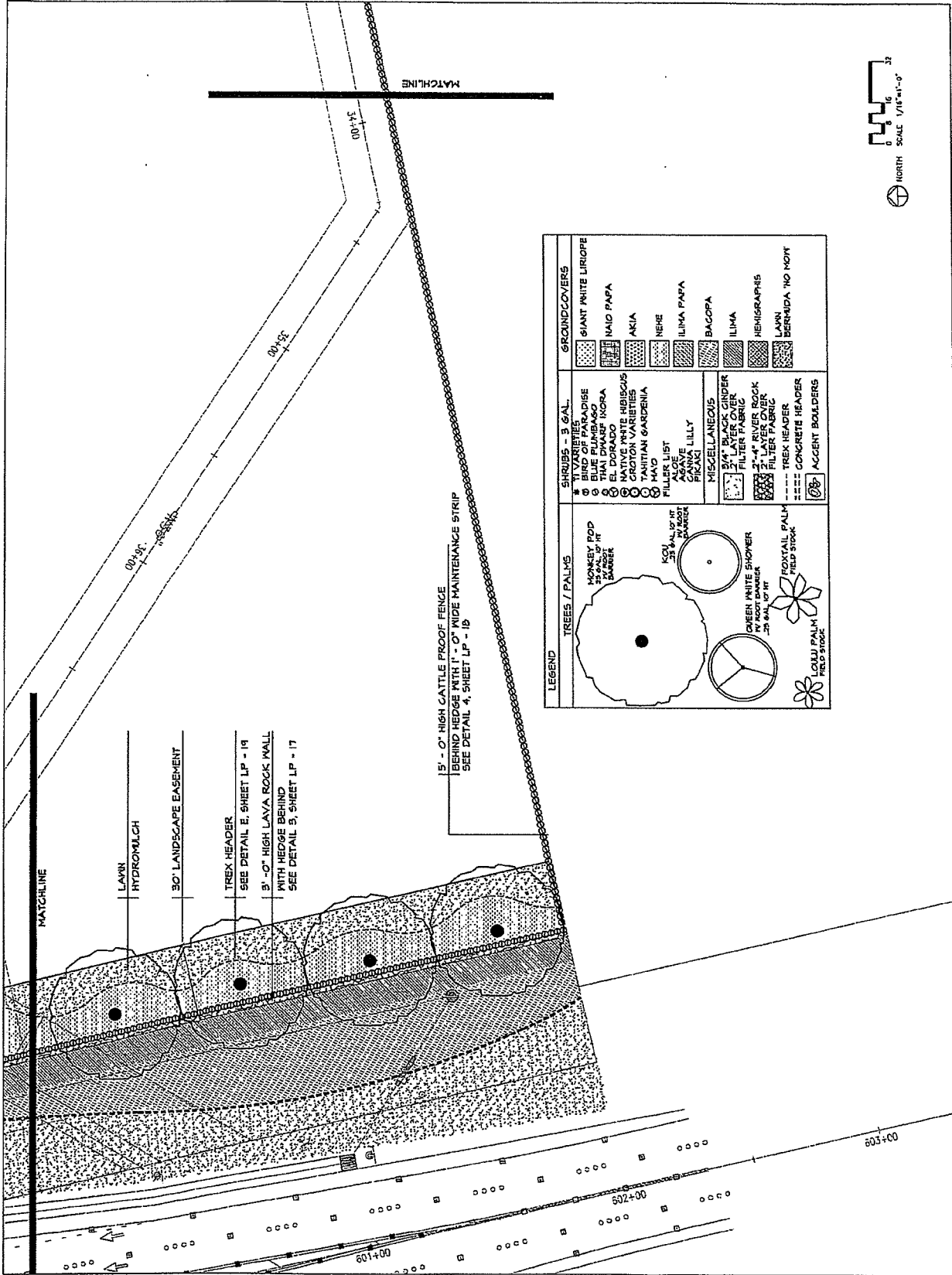
**Professional Engineer**  
 State of Hawaii  
 License No. 10000  
 License Expiration Date: 12/31/2018

**KAONOUULU MARKET PLACE**  
 Kalo, Maui, Hawaii  
 (2) 2-2-02 Port of 15 and (2) 3-9-01:16

Sheet Title: Landscape Planting Plan  
 Date: 7/1/18

| NO. | DESCRIPTION | DATE   | BY |
|-----|-------------|--------|----|
| 1   | PRELIMINARY | 7/1/18 | MM |
| 2   | REVISED     | 7/1/18 | MM |
| 3   | REVISED     | 7/1/18 | MM |
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| 100 | REVISED     | 7/1/18 | MM |

Scale: 1/8" = 1'-0"  
 Sheet Number: LP-7





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www.marvelhawaii.com



Professional Engineer  
State of Hawaii  
No. 10000  
Exp. 12/31/16

**KAONOLU MARKET PLACE**

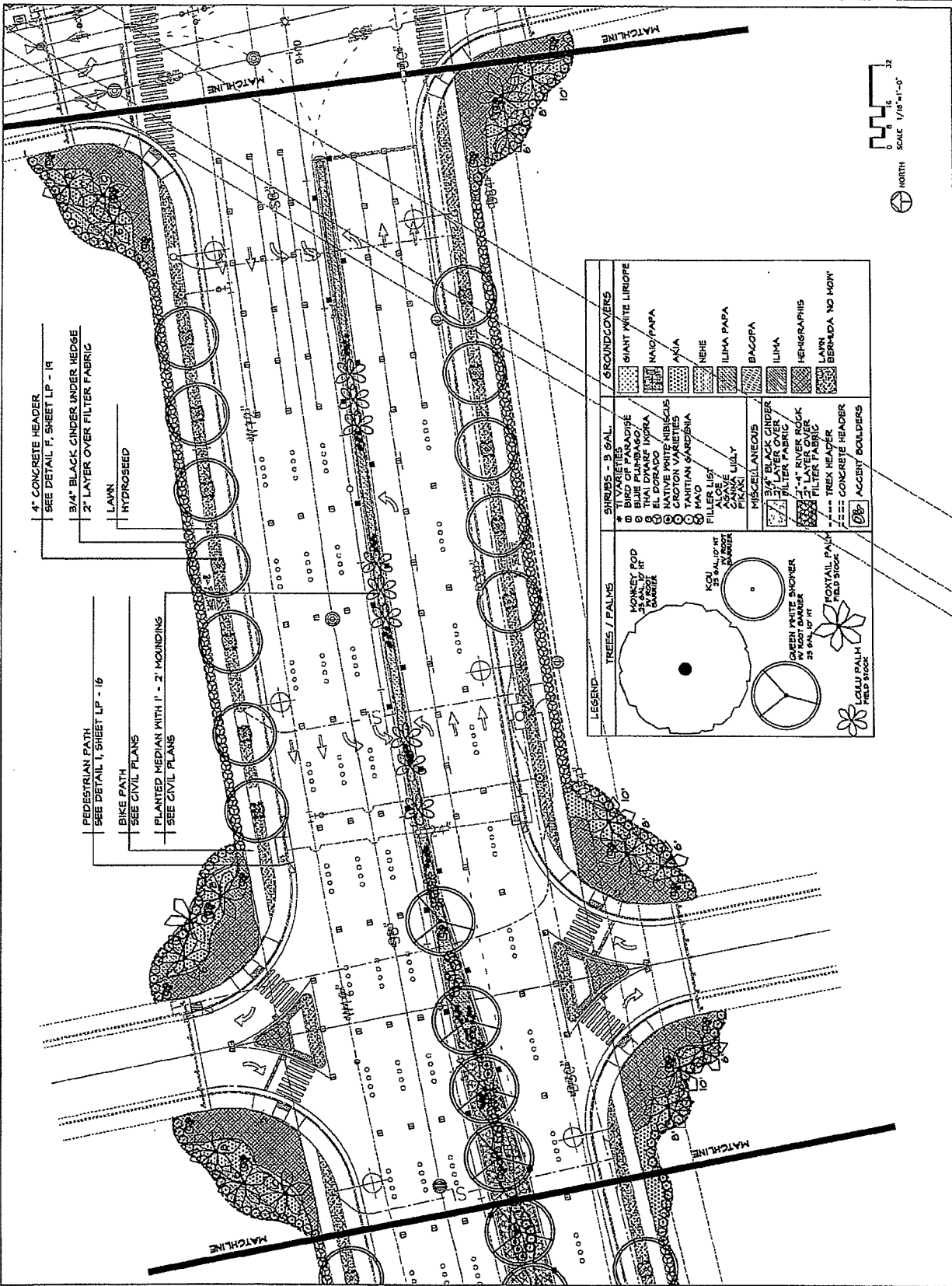
Kalihi, Maui, Hawaii

(2) 2-2-02 Port of 15 and (2) 3-9-01:16

Sheet Title  
Landscape Planting Plan  
Area 8

| NO. | DESCRIPTION    | DATE     | BY |
|-----|----------------|----------|----|
| 1   | Initial Design | 11/27/01 | WJ |
| 2   | Revised Design | 12/27/01 | WJ |
| 3   | Final Design   | 01/27/02 | WJ |

| NO. | DESCRIPTION    | DATE     | BY |
|-----|----------------|----------|----|
| 1   | Initial Design | 11/27/01 | WJ |
| 2   | Revised Design | 12/27/01 | WJ |
| 3   | Final Design   | 01/27/02 | WJ |



4" CONCRETE HEADER  
SEE DETAIL 1, SHEET LP - 19

3/4" BLACK CINDER UNDER HEDGE  
2" LAYER OVER FILTER FABRIC

LAWN  
HYDROSEED

PEDESTRIAN PATH  
SEE DETAIL 1, SHEET LP - 16

BIKE PATH  
SEE CIVIL PLANS

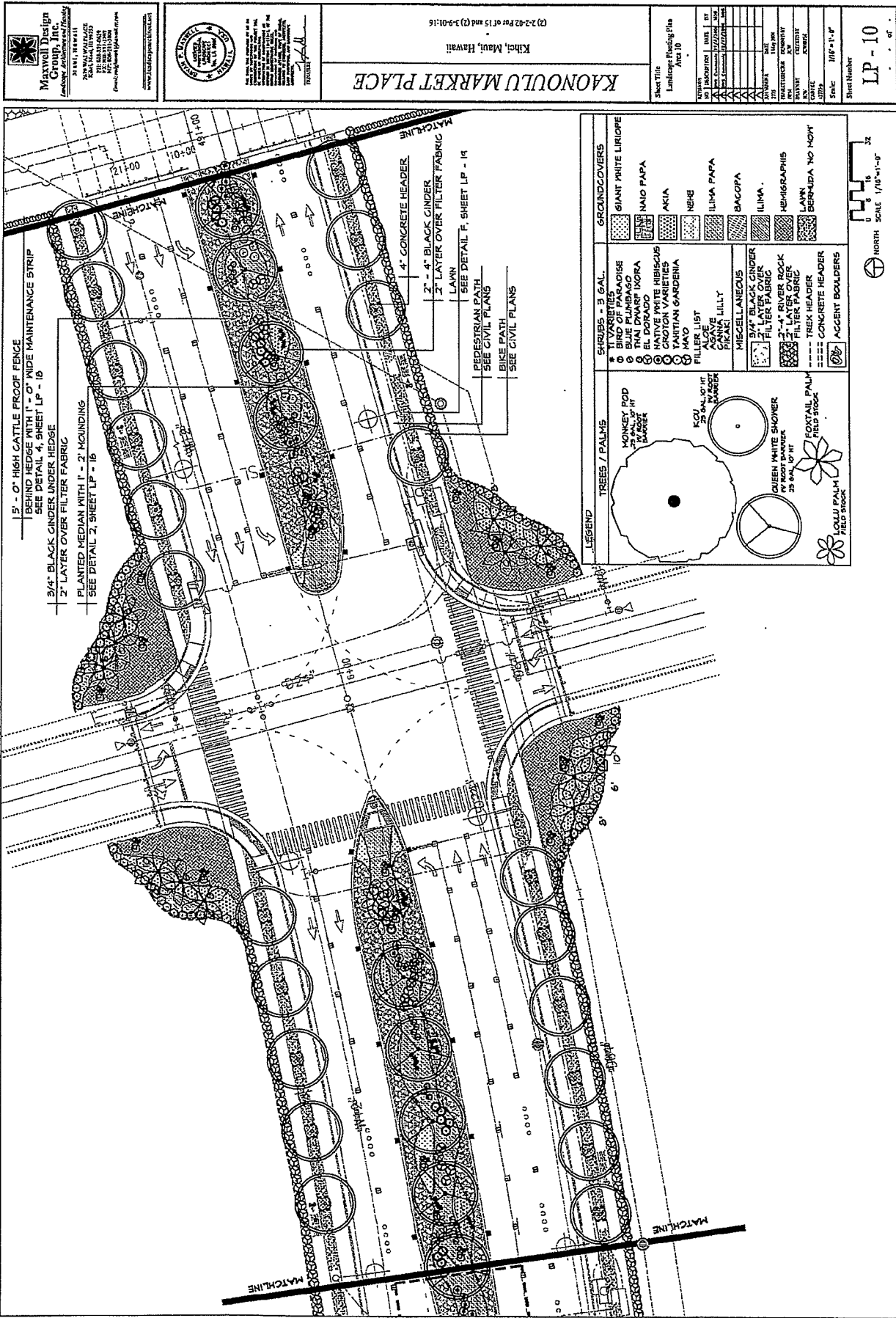
PLANTED MEDIAN WITH 1' - 2' BORDERS  
SEE CIVIL PLANS

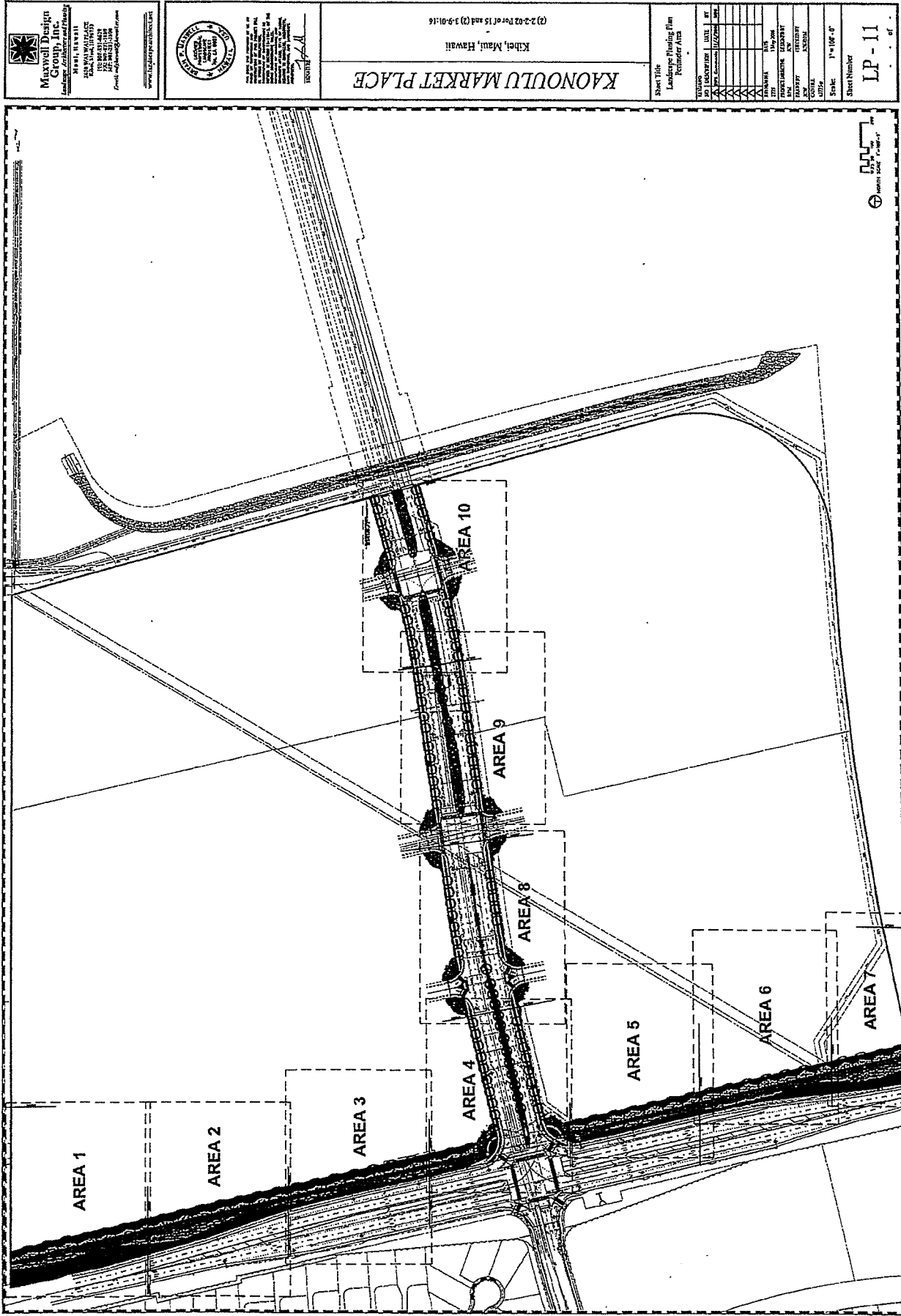
| LEGEND                                      | TREES / PALMS                               | SHRUBS - 9 GAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GROUNDCOVERS                                                                                                              |
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| MONKEY POD<br>25' x 30' x 10' Ht<br>BARRIER | MONKEY POD<br>25' x 30' x 10' Ht<br>BARRIER | 11 VARIETIES<br>12 VARIETIES<br>13 VARIETIES<br>14 VARIETIES<br>15 VARIETIES<br>16 VARIETIES<br>17 VARIETIES<br>18 VARIETIES<br>19 VARIETIES<br>20 VARIETIES<br>21 VARIETIES<br>22 VARIETIES<br>23 VARIETIES<br>24 VARIETIES<br>25 VARIETIES<br>26 VARIETIES<br>27 VARIETIES<br>28 VARIETIES<br>29 VARIETIES<br>30 VARIETIES<br>31 VARIETIES<br>32 VARIETIES<br>33 VARIETIES<br>34 VARIETIES<br>35 VARIETIES<br>36 VARIETIES<br>37 VARIETIES<br>38 VARIETIES<br>39 VARIETIES<br>40 VARIETIES<br>41 VARIETIES<br>42 VARIETIES<br>43 VARIETIES<br>44 VARIETIES<br>45 VARIETIES<br>46 VARIETIES<br>47 VARIETIES<br>48 VARIETIES<br>49 VARIETIES<br>50 VARIETIES<br>51 VARIETIES<br>52 VARIETIES<br>53 VARIETIES<br>54 VARIETIES<br>55 VARIETIES<br>56 VARIETIES<br>57 VARIETIES<br>58 VARIETIES<br>59 VARIETIES<br>60 VARIETIES<br>61 VARIETIES<br>62 VARIETIES<br>63 VARIETIES<br>64 VARIETIES<br>65 VARIETIES<br>66 VARIETIES<br>67 VARIETIES<br>68 VARIETIES<br>69 VARIETIES<br>70 VARIETIES<br>71 VARIETIES<br>72 VARIETIES<br>73 VARIETIES<br>74 VARIETIES<br>75 VARIETIES<br>76 VARIETIES<br>77 VARIETIES<br>78 VARIETIES<br>79 VARIETIES<br>80 VARIETIES<br>81 VARIETIES<br>82 VARIETIES<br>83 VARIETIES<br>84 VARIETIES<br>85 VARIETIES<br>86 VARIETIES<br>87 VARIETIES<br>88 VARIETIES<br>89 VARIETIES<br>90 VARIETIES<br>91 VARIETIES<br>92 VARIETIES<br>93 VARIETIES<br>94 VARIETIES<br>95 VARIETIES<br>96 VARIETIES<br>97 VARIETIES<br>98 VARIETIES<br>99 VARIETIES<br>100 VARIETIES | GIANT WHITE LIRIOPE<br>NAGI PAPA<br>AKA<br>NEHE<br>ILIMA PAPA<br>BAGOPA<br>ILIMA<br>HEMIGRAPHIS<br>LAWN<br>BERMUDA NO MOW |

NORTH  
SCALE 1/16" = 1'-0"

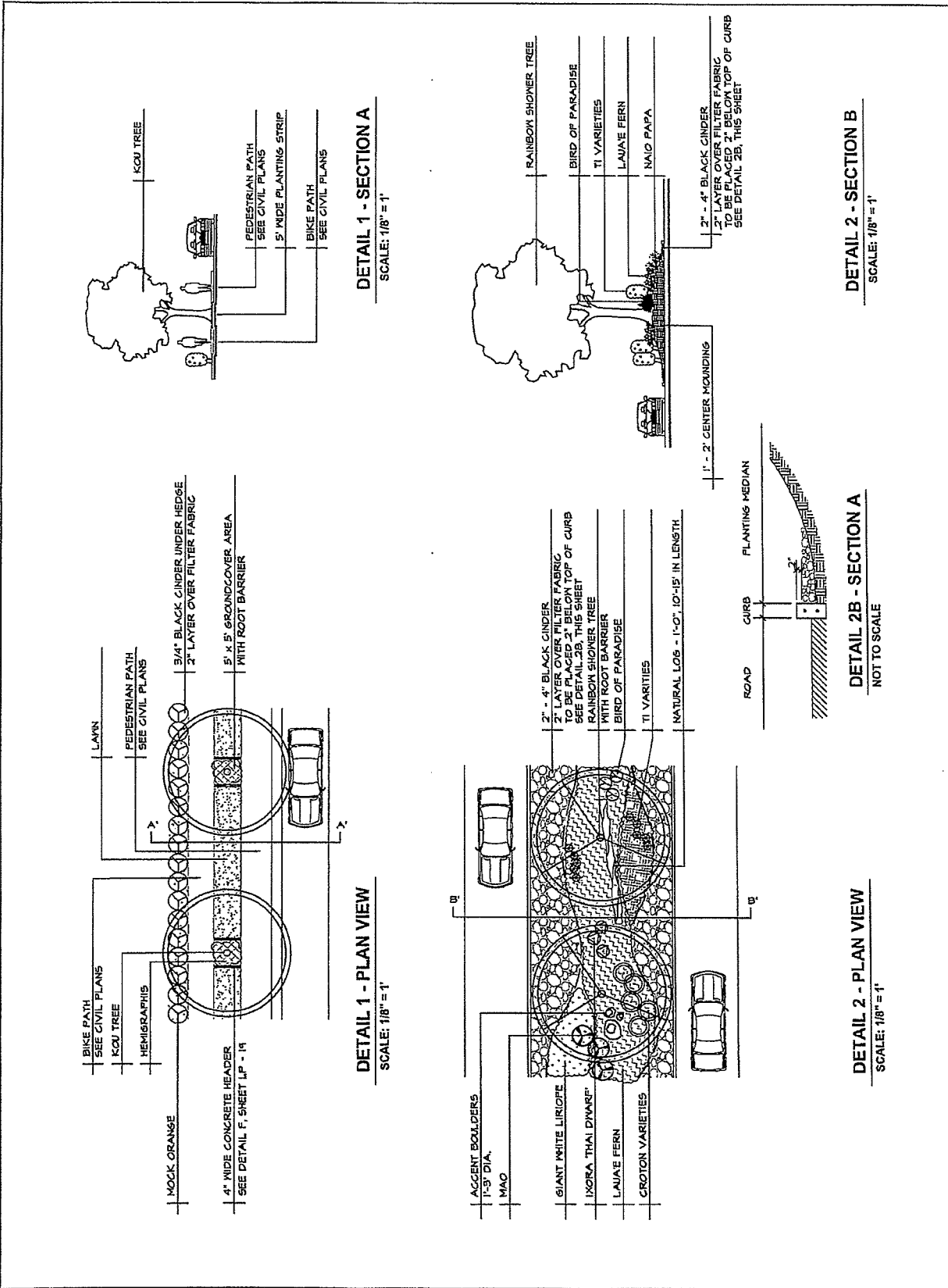
LP - 8

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 Fax: (808) 944-1101  
 Email: info@maxwelldesign.com

**KAONOUULU MARKET PLACE**

Kihel, Maui, Hawaii

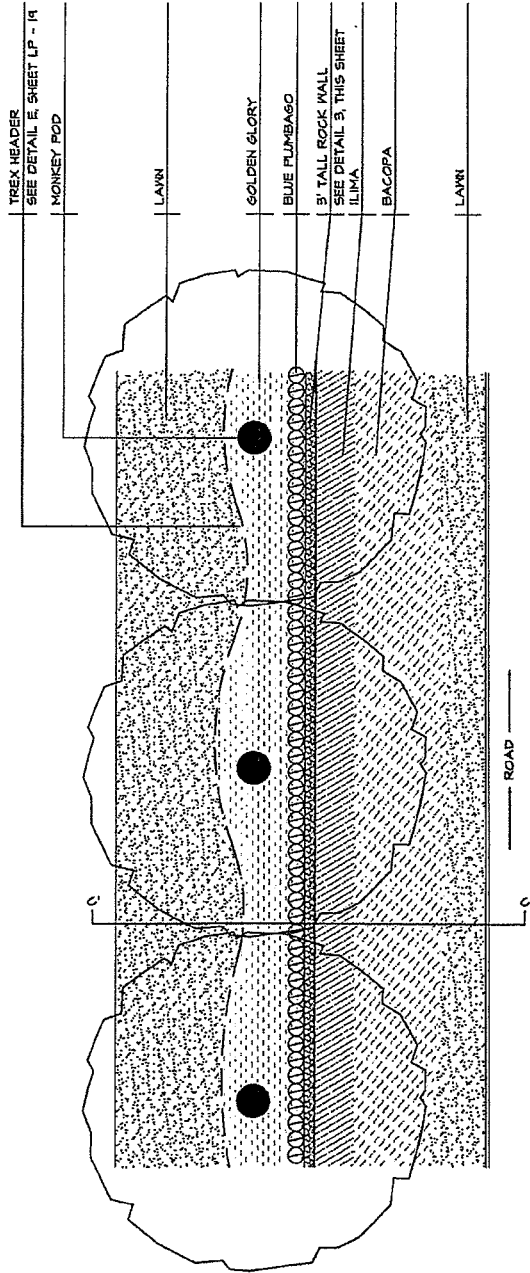
(2) 3-2-02 Per 015 and (2) 3-0-1.16

Sheet Title: **Hardscape Details**

| NO. | DESCRIPTION       | DATE     | BY |
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| 1   | 3' TALL ROCK WALL | 11/11/01 | MM |
| 2   | 3' TALL ROCK WALL | 11/11/01 | MM |
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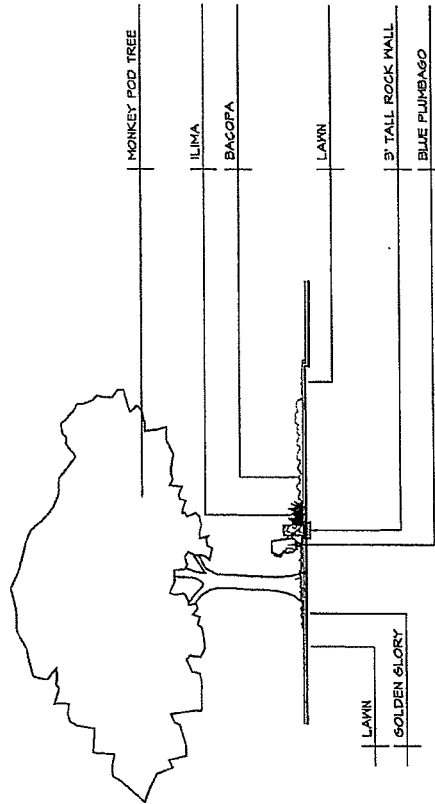
Sheet Number: **LP - 14**

Scale: **1/8" = 1'**



**DETAIL 3 - PLAN VIEW**

SCALE: 1/8" = 1'



**DETAIL 3 - SECTION C**

SCALE: 1/8" = 1'



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 Email: info@marvelgroup.com



Professional Engineer  
 State of Hawaii  
 License No. 10000  
 Name: [Signature]  
 Title: [Signature]

**KAONOLU MARKET PLACE**

Kilauea, Maui, Hawaii

(2) 2-2-02 For of 15 and (2) 3-9-01:16

Sheet Title: Landscape Details

| NO. | DESCRIPTION | DATE     | BY |
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Scale: 3/16" = 1'

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