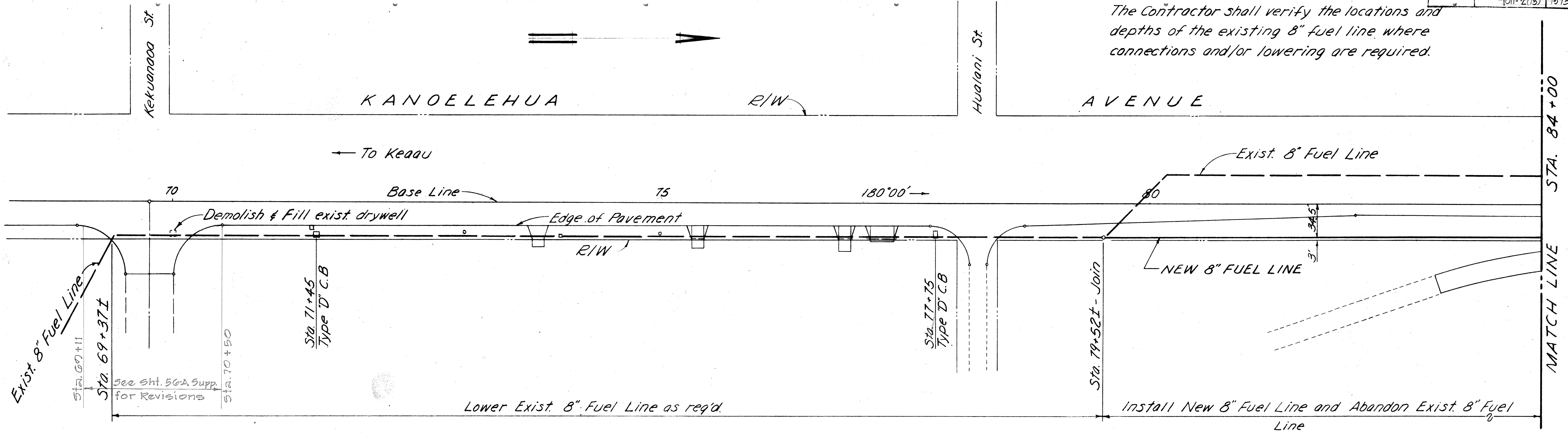
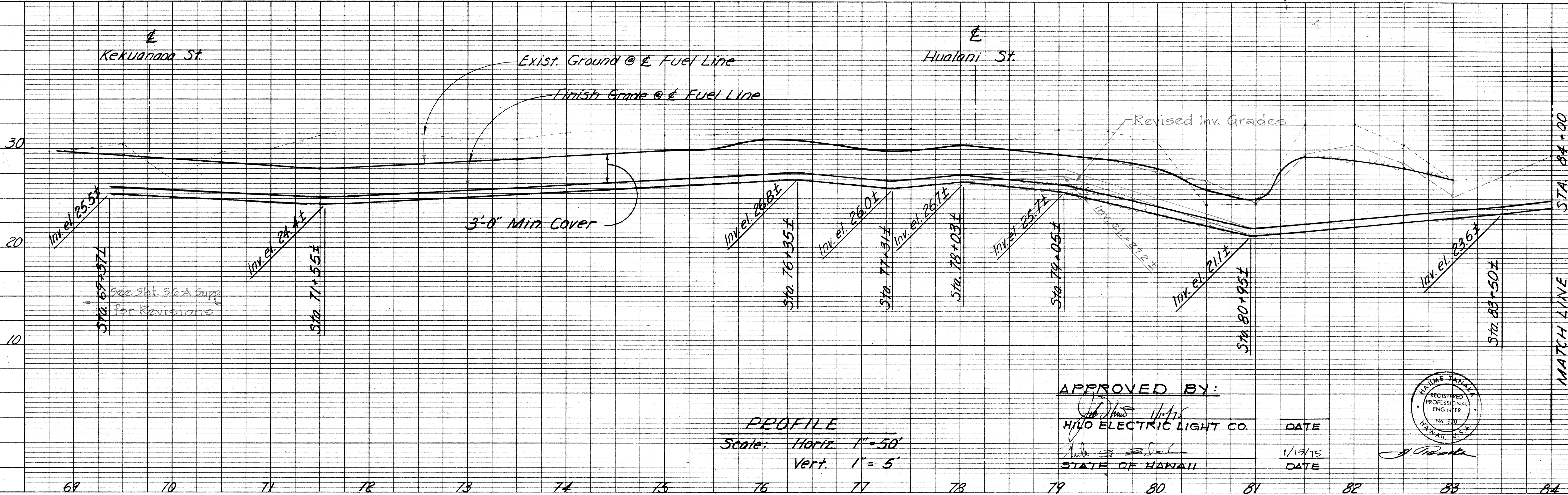


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | F-R-E-011-2(13)    | 1975        | 56a       | 126          |

NOTE:  
The Contractor shall verify the locations and depths of the existing 8" fuel line where connections and/or lowering are required.



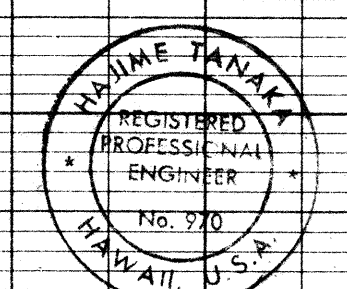
PLAN  
Scale: 1" = 50'



PROFILE  
Scale: Horiz. 1" = 50'  
Vert. 1" = 5'

APPROVED BY:  
*[Signature]*  
HILO ELECTRIC LIGHT CO.  
STATE OF HAWAII

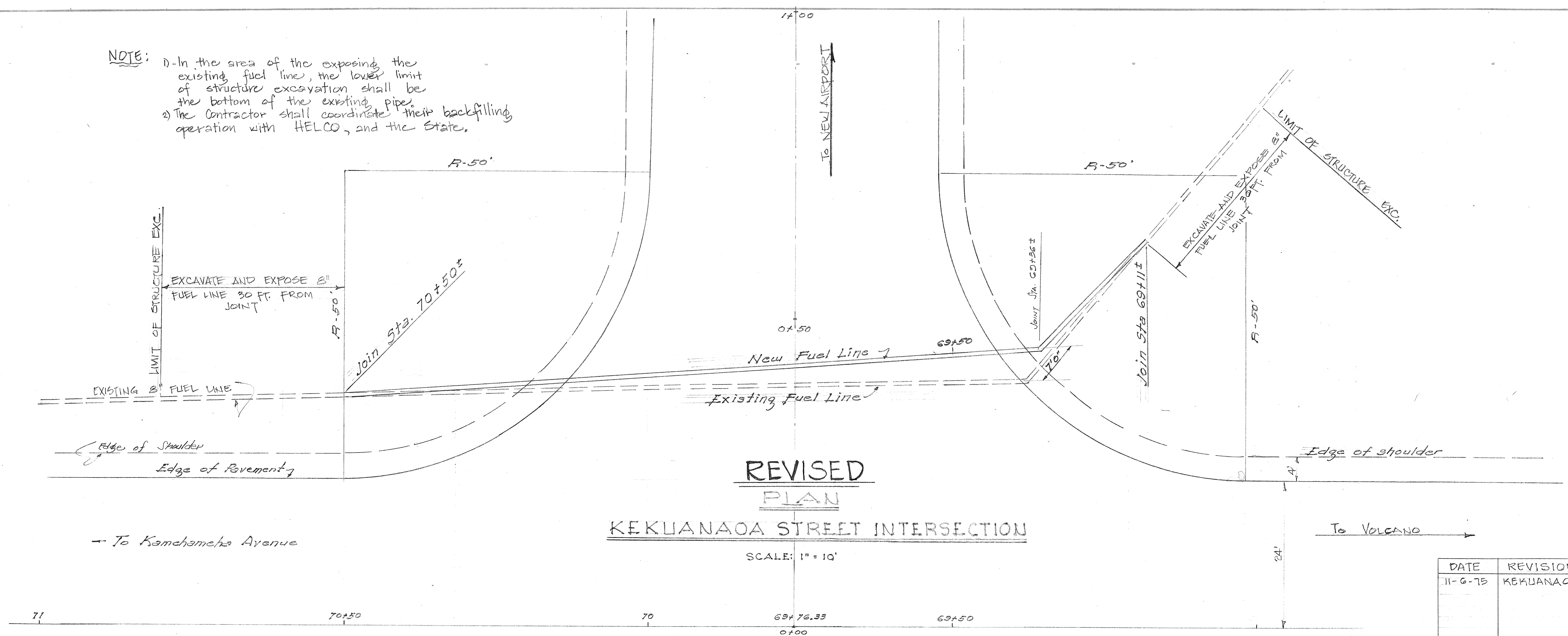
DATE  
1/15/15  
DATE





|      |                                         |                           |                 |
|------|-----------------------------------------|---------------------------|-----------------|
| PLAN | SURVEYED<br>PLOTTED<br>NOTE BOOK<br>NO. | BY<br>A. MARIAMUEL (CHGO) | DATE<br>1/22/71 |
|      | NOTED<br>CHECKED<br>FIT. OF WAY CHECKED |                           |                 |

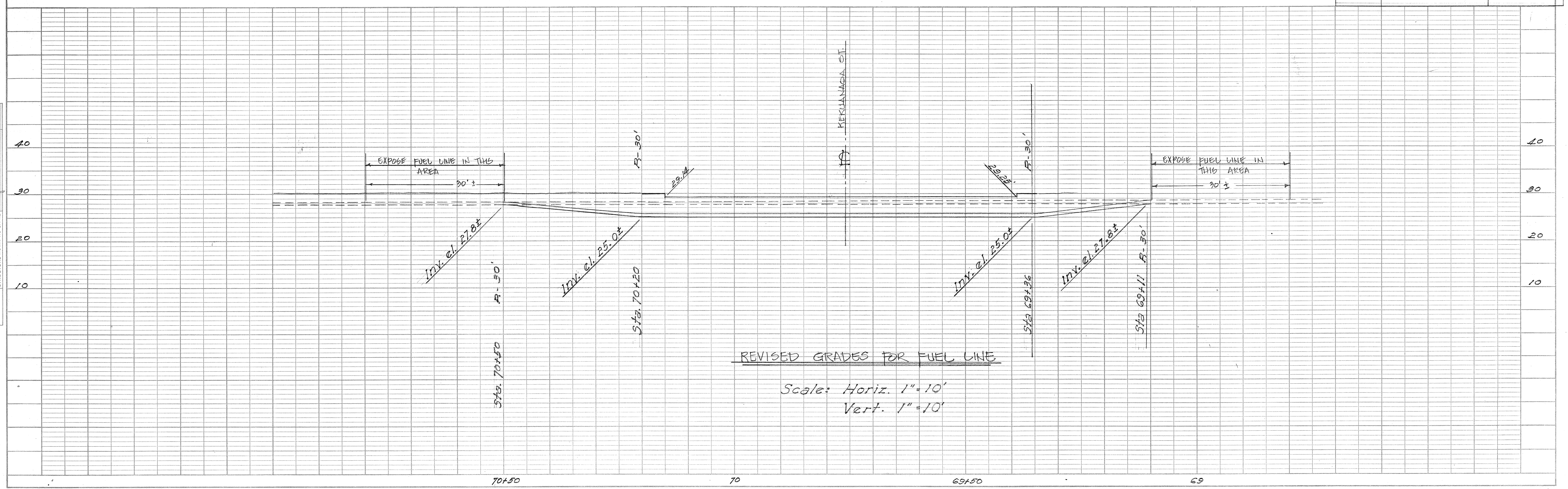
NOTE:  
 1) In the area of the exposing the existing fuel line, the lower limit of structure excavation shall be the bottom of the existing pipe.  
 2) The Contractor shall coordinate their backfilling operation with HELCO, and the State.



**REVISED PLAN**  
 KEKUANAOA STREET INTERSECTION  
 SCALE: 1" = 10'

| DATE    | REVISION           | REMARKS           |
|---------|--------------------|-------------------|
| 11-6-75 | KEKUANAOA ST. INT. | SUPP TO SHEET 56A |

|         |                                              |                           |                 |
|---------|----------------------------------------------|---------------------------|-----------------|
| PROFILE | SURVEYED<br>PLOTTED<br>NOTE BOOK<br>NO.      | BY<br>A. MARIAMUEL (CHGO) | DATE<br>11-4-75 |
|         | NOTED<br>CHECKED<br>STRUCTURE NOTATIONS CHKO |                           |                 |

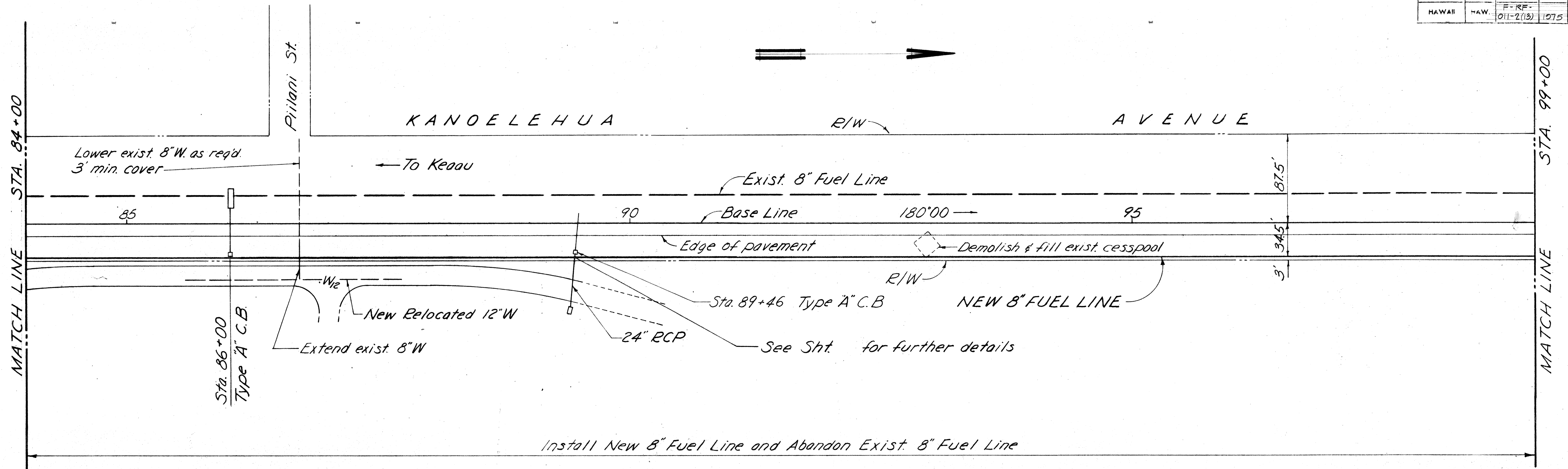


**REVISED GRADES FOR FUEL LINE**  
 Scale: Horiz. 1" = 10'  
 Vert. 1" = 10'

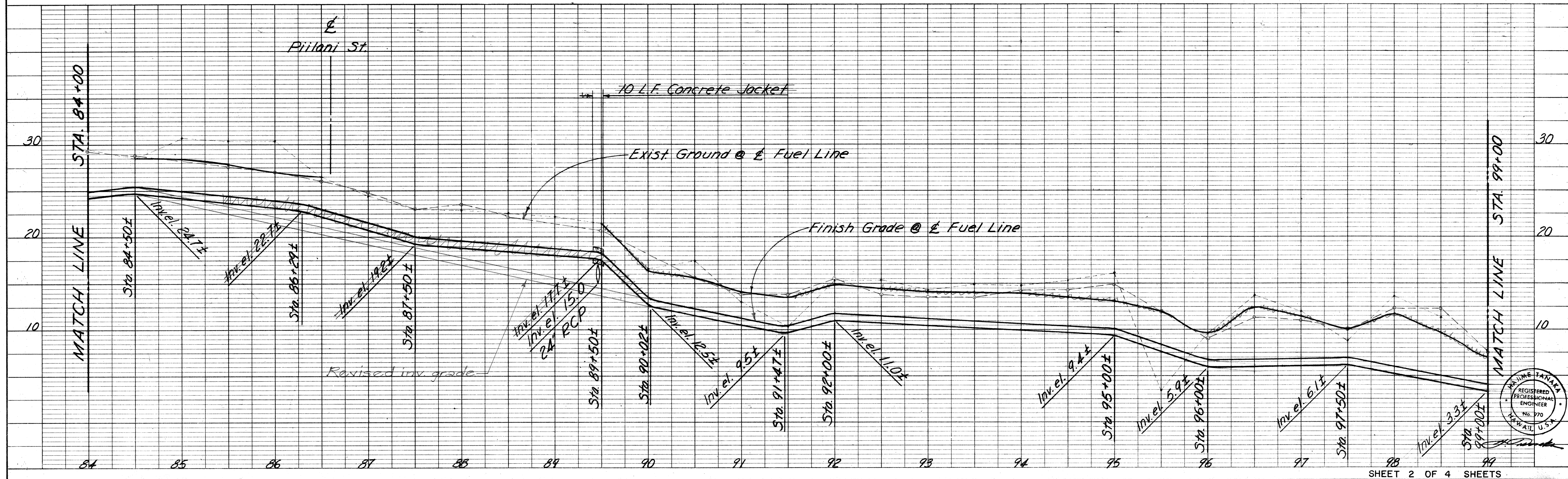


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | F-188-011-2(13)    | 1975        | 56B       | 120          |

| PLAN    | DATE | BY |
|---------|------|----|
| NO. 1   |      |    |
| NO. 2   |      |    |
| NO. 3   |      |    |
| NO. 4   |      |    |
| NO. 5   |      |    |
| NO. 6   |      |    |
| NO. 7   |      |    |
| NO. 8   |      |    |
| NO. 9   |      |    |
| NO. 10  |      |    |
| NO. 11  |      |    |
| NO. 12  |      |    |
| NO. 13  |      |    |
| NO. 14  |      |    |
| NO. 15  |      |    |
| NO. 16  |      |    |
| NO. 17  |      |    |
| NO. 18  |      |    |
| NO. 19  |      |    |
| NO. 20  |      |    |
| NO. 21  |      |    |
| NO. 22  |      |    |
| NO. 23  |      |    |
| NO. 24  |      |    |
| NO. 25  |      |    |
| NO. 26  |      |    |
| NO. 27  |      |    |
| NO. 28  |      |    |
| NO. 29  |      |    |
| NO. 30  |      |    |
| NO. 31  |      |    |
| NO. 32  |      |    |
| NO. 33  |      |    |
| NO. 34  |      |    |
| NO. 35  |      |    |
| NO. 36  |      |    |
| NO. 37  |      |    |
| NO. 38  |      |    |
| NO. 39  |      |    |
| NO. 40  |      |    |
| NO. 41  |      |    |
| NO. 42  |      |    |
| NO. 43  |      |    |
| NO. 44  |      |    |
| NO. 45  |      |    |
| NO. 46  |      |    |
| NO. 47  |      |    |
| NO. 48  |      |    |
| NO. 49  |      |    |
| NO. 50  |      |    |
| NO. 51  |      |    |
| NO. 52  |      |    |
| NO. 53  |      |    |
| NO. 54  |      |    |
| NO. 55  |      |    |
| NO. 56  |      |    |
| NO. 57  |      |    |
| NO. 58  |      |    |
| NO. 59  |      |    |
| NO. 60  |      |    |
| NO. 61  |      |    |
| NO. 62  |      |    |
| NO. 63  |      |    |
| NO. 64  |      |    |
| NO. 65  |      |    |
| NO. 66  |      |    |
| NO. 67  |      |    |
| NO. 68  |      |    |
| NO. 69  |      |    |
| NO. 70  |      |    |
| NO. 71  |      |    |
| NO. 72  |      |    |
| NO. 73  |      |    |
| NO. 74  |      |    |
| NO. 75  |      |    |
| NO. 76  |      |    |
| NO. 77  |      |    |
| NO. 78  |      |    |
| NO. 79  |      |    |
| NO. 80  |      |    |
| NO. 81  |      |    |
| NO. 82  |      |    |
| NO. 83  |      |    |
| NO. 84  |      |    |
| NO. 85  |      |    |
| NO. 86  |      |    |
| NO. 87  |      |    |
| NO. 88  |      |    |
| NO. 89  |      |    |
| NO. 90  |      |    |
| NO. 91  |      |    |
| NO. 92  |      |    |
| NO. 93  |      |    |
| NO. 94  |      |    |
| NO. 95  |      |    |
| NO. 96  |      |    |
| NO. 97  |      |    |
| NO. 98  |      |    |
| NO. 99  |      |    |
| NO. 100 |      |    |
| NO. 101 |      |    |
| NO. 102 |      |    |
| NO. 103 |      |    |
| NO. 104 |      |    |
| NO. 105 |      |    |
| NO. 106 |      |    |
| NO. 107 |      |    |
| NO. 108 |      |    |
| NO. 109 |      |    |
| NO. 110 |      |    |
| NO. 111 |      |    |
| NO. 112 |      |    |
| NO. 113 |      |    |
| NO. 114 |      |    |
| NO. 115 |      |    |
| NO. 116 |      |    |
| NO. 117 |      |    |
| NO. 118 |      |    |
| NO. 119 |      |    |
| NO. 120 |      |    |



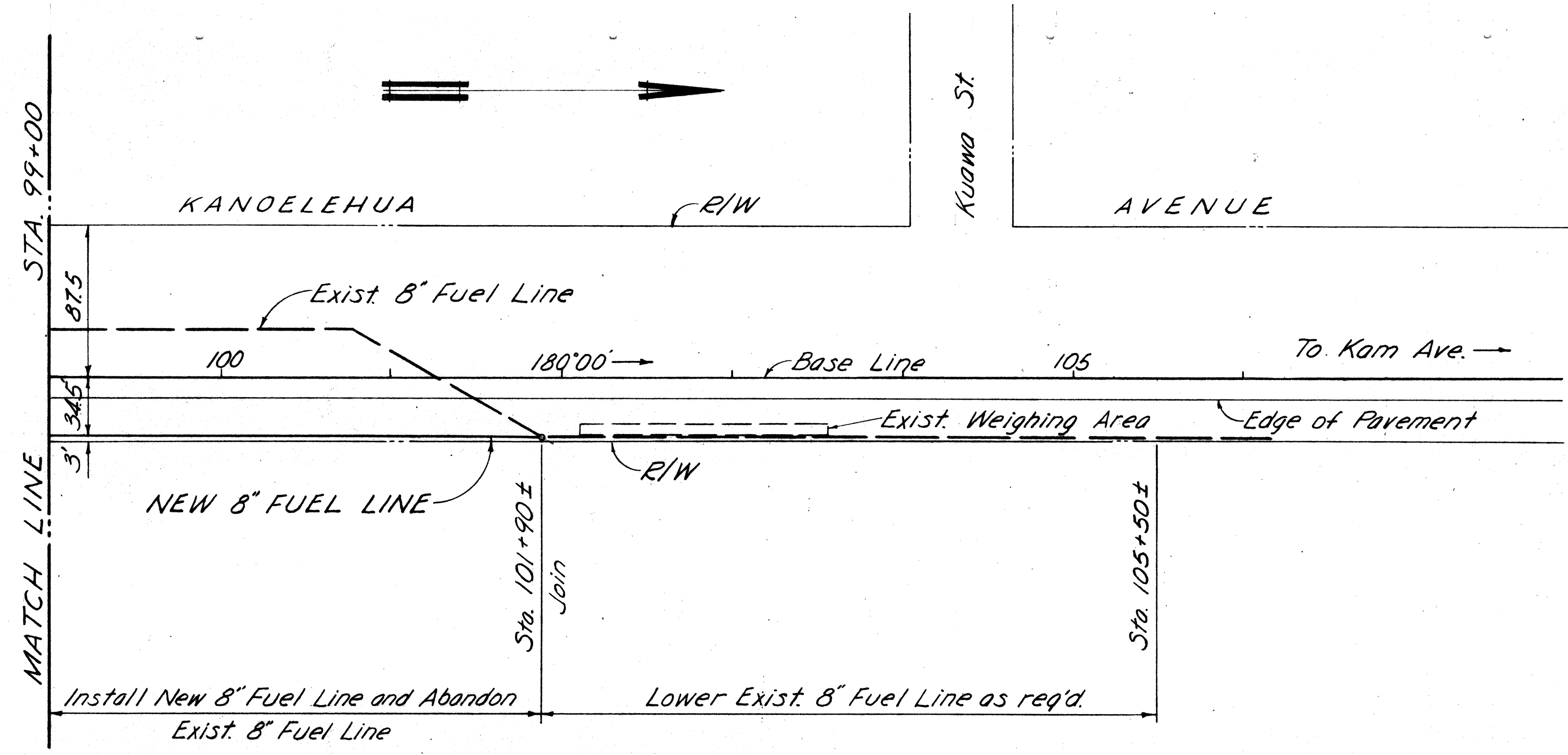
| PROFILE | DATE | BY |
|---------|------|----|
| NO. 1   |      |    |
| NO. 2   |      |    |
| NO. 3   |      |    |
| NO. 4   |      |    |
| NO. 5   |      |    |
| NO. 6   |      |    |
| NO. 7   |      |    |
| NO. 8   |      |    |
| NO. 9   |      |    |
| NO. 10  |      |    |
| NO. 11  |      |    |
| NO. 12  |      |    |
| NO. 13  |      |    |
| NO. 14  |      |    |
| NO. 15  |      |    |
| NO. 16  |      |    |
| NO. 17  |      |    |
| NO. 18  |      |    |
| NO. 19  |      |    |
| NO. 20  |      |    |
| NO. 21  |      |    |
| NO. 22  |      |    |
| NO. 23  |      |    |
| NO. 24  |      |    |
| NO. 25  |      |    |
| NO. 26  |      |    |
| NO. 27  |      |    |
| NO. 28  |      |    |
| NO. 29  |      |    |
| NO. 30  |      |    |
| NO. 31  |      |    |
| NO. 32  |      |    |
| NO. 33  |      |    |
| NO. 34  |      |    |
| NO. 35  |      |    |
| NO. 36  |      |    |
| NO. 37  |      |    |
| NO. 38  |      |    |
| NO. 39  |      |    |
| NO. 40  |      |    |
| NO. 41  |      |    |
| NO. 42  |      |    |
| NO. 43  |      |    |
| NO. 44  |      |    |
| NO. 45  |      |    |
| NO. 46  |      |    |
| NO. 47  |      |    |
| NO. 48  |      |    |
| NO. 49  |      |    |
| NO. 50  |      |    |
| NO. 51  |      |    |
| NO. 52  |      |    |
| NO. 53  |      |    |
| NO. 54  |      |    |
| NO. 55  |      |    |
| NO. 56  |      |    |
| NO. 57  |      |    |
| NO. 58  |      |    |
| NO. 59  |      |    |
| NO. 60  |      |    |
| NO. 61  |      |    |
| NO. 62  |      |    |
| NO. 63  |      |    |
| NO. 64  |      |    |
| NO. 65  |      |    |
| NO. 66  |      |    |
| NO. 67  |      |    |
| NO. 68  |      |    |
| NO. 69  |      |    |
| NO. 70  |      |    |
| NO. 71  |      |    |
| NO. 72  |      |    |
| NO. 73  |      |    |
| NO. 74  |      |    |
| NO. 75  |      |    |
| NO. 76  |      |    |
| NO. 77  |      |    |
| NO. 78  |      |    |
| NO. 79  |      |    |
| NO. 80  |      |    |
| NO. 81  |      |    |
| NO. 82  |      |    |
| NO. 83  |      |    |
| NO. 84  |      |    |
| NO. 85  |      |    |
| NO. 86  |      |    |
| NO. 87  |      |    |
| NO. 88  |      |    |
| NO. 89  |      |    |
| NO. 90  |      |    |
| NO. 91  |      |    |
| NO. 92  |      |    |
| NO. 93  |      |    |
| NO. 94  |      |    |
| NO. 95  |      |    |
| NO. 96  |      |    |
| NO. 97  |      |    |
| NO. 98  |      |    |
| NO. 99  |      |    |
| NO. 100 |      |    |
| NO. 101 |      |    |
| NO. 102 |      |    |
| NO. 103 |      |    |
| NO. 104 |      |    |
| NO. 105 |      |    |
| NO. 106 |      |    |
| NO. 107 |      |    |
| NO. 108 |      |    |
| NO. 109 |      |    |
| NO. 110 |      |    |
| NO. 111 |      |    |
| NO. 112 |      |    |
| NO. 113 |      |    |
| NO. 114 |      |    |
| NO. 115 |      |    |
| NO. 116 |      |    |
| NO. 117 |      |    |
| NO. 118 |      |    |
| NO. 119 |      |    |
| NO. 120 |      |    |



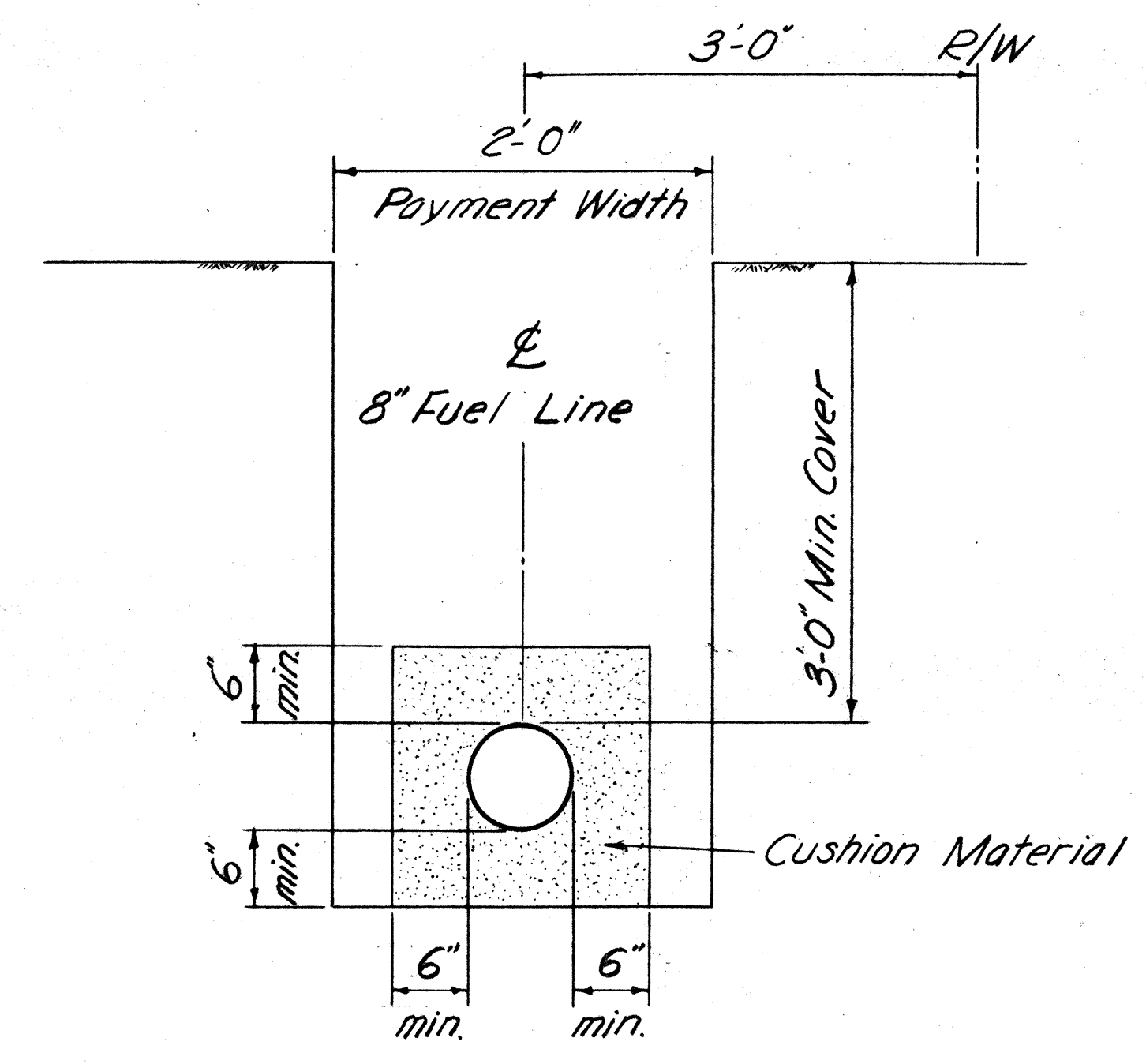


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | E-RF-011-2(13)     | 1975        | 56C       | 126          |

| PLAN    | DATE | BY |
|---------|------|----|
| NO. 1   |      |    |
| NO. 2   |      |    |
| NO. 3   |      |    |
| NO. 4   |      |    |
| NO. 5   |      |    |
| NO. 6   |      |    |
| NO. 7   |      |    |
| NO. 8   |      |    |
| NO. 9   |      |    |
| NO. 10  |      |    |
| NO. 11  |      |    |
| NO. 12  |      |    |
| NO. 13  |      |    |
| NO. 14  |      |    |
| NO. 15  |      |    |
| NO. 16  |      |    |
| NO. 17  |      |    |
| NO. 18  |      |    |
| NO. 19  |      |    |
| NO. 20  |      |    |
| NO. 21  |      |    |
| NO. 22  |      |    |
| NO. 23  |      |    |
| NO. 24  |      |    |
| NO. 25  |      |    |
| NO. 26  |      |    |
| NO. 27  |      |    |
| NO. 28  |      |    |
| NO. 29  |      |    |
| NO. 30  |      |    |
| NO. 31  |      |    |
| NO. 32  |      |    |
| NO. 33  |      |    |
| NO. 34  |      |    |
| NO. 35  |      |    |
| NO. 36  |      |    |
| NO. 37  |      |    |
| NO. 38  |      |    |
| NO. 39  |      |    |
| NO. 40  |      |    |
| NO. 41  |      |    |
| NO. 42  |      |    |
| NO. 43  |      |    |
| NO. 44  |      |    |
| NO. 45  |      |    |
| NO. 46  |      |    |
| NO. 47  |      |    |
| NO. 48  |      |    |
| NO. 49  |      |    |
| NO. 50  |      |    |
| NO. 51  |      |    |
| NO. 52  |      |    |
| NO. 53  |      |    |
| NO. 54  |      |    |
| NO. 55  |      |    |
| NO. 56  |      |    |
| NO. 57  |      |    |
| NO. 58  |      |    |
| NO. 59  |      |    |
| NO. 60  |      |    |
| NO. 61  |      |    |
| NO. 62  |      |    |
| NO. 63  |      |    |
| NO. 64  |      |    |
| NO. 65  |      |    |
| NO. 66  |      |    |
| NO. 67  |      |    |
| NO. 68  |      |    |
| NO. 69  |      |    |
| NO. 70  |      |    |
| NO. 71  |      |    |
| NO. 72  |      |    |
| NO. 73  |      |    |
| NO. 74  |      |    |
| NO. 75  |      |    |
| NO. 76  |      |    |
| NO. 77  |      |    |
| NO. 78  |      |    |
| NO. 79  |      |    |
| NO. 80  |      |    |
| NO. 81  |      |    |
| NO. 82  |      |    |
| NO. 83  |      |    |
| NO. 84  |      |    |
| NO. 85  |      |    |
| NO. 86  |      |    |
| NO. 87  |      |    |
| NO. 88  |      |    |
| NO. 89  |      |    |
| NO. 90  |      |    |
| NO. 91  |      |    |
| NO. 92  |      |    |
| NO. 93  |      |    |
| NO. 94  |      |    |
| NO. 95  |      |    |
| NO. 96  |      |    |
| NO. 97  |      |    |
| NO. 98  |      |    |
| NO. 99  |      |    |
| NO. 100 |      |    |
| NO. 101 |      |    |
| NO. 102 |      |    |
| NO. 103 |      |    |
| NO. 104 |      |    |
| NO. 105 |      |    |
| NO. 106 |      |    |
| NO. 107 |      |    |
| NO. 108 |      |    |
| NO. 109 |      |    |
| NO. 110 |      |    |
| NO. 111 |      |    |
| NO. 112 |      |    |
| NO. 113 |      |    |
| NO. 114 |      |    |
| NO. 115 |      |    |
| NO. 116 |      |    |
| NO. 117 |      |    |
| NO. 118 |      |    |
| NO. 119 |      |    |
| NO. 120 |      |    |
| NO. 121 |      |    |
| NO. 122 |      |    |
| NO. 123 |      |    |
| NO. 124 |      |    |
| NO. 125 |      |    |
| NO. 126 |      |    |

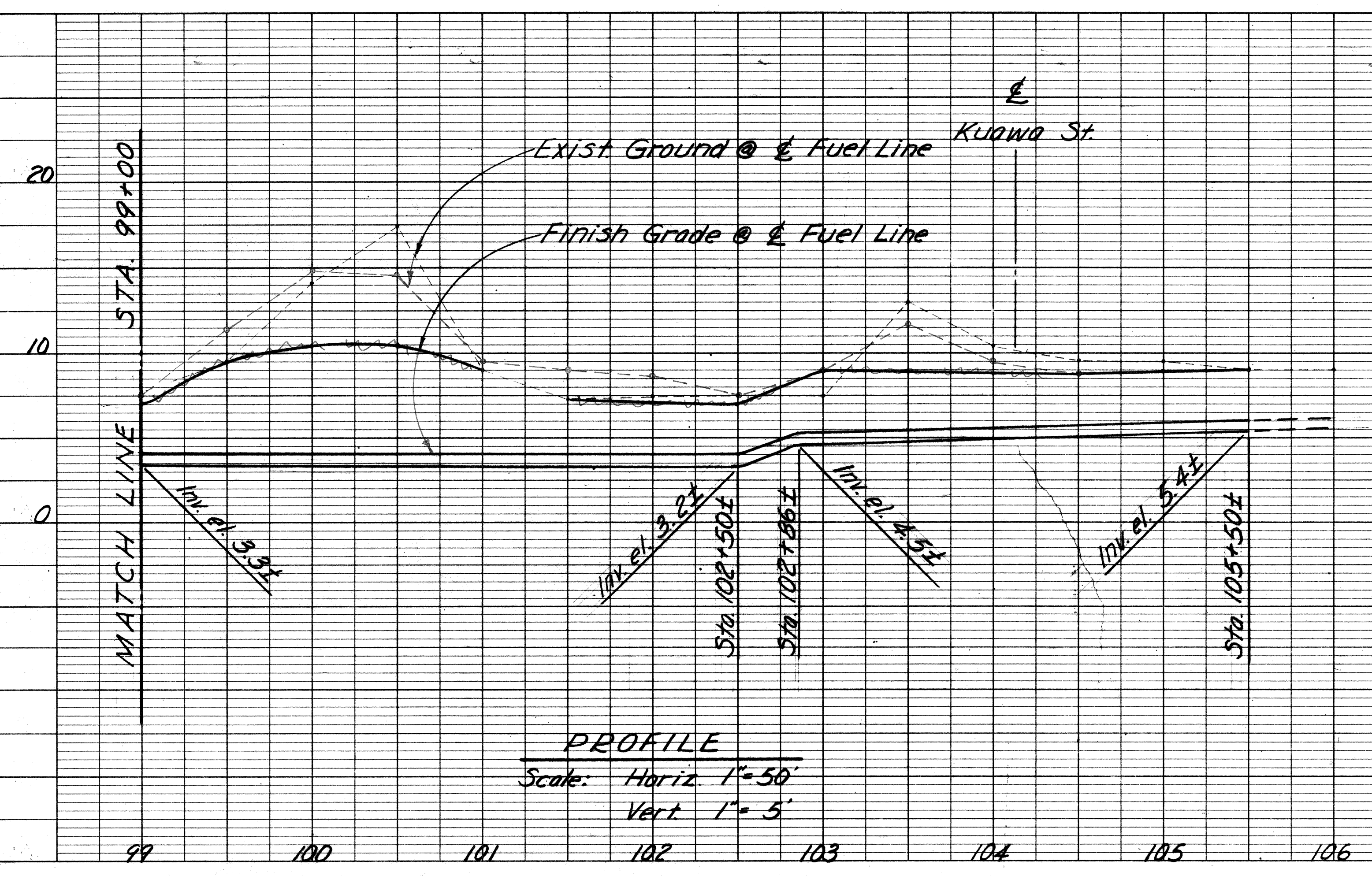


PLAN  
Scale: 1" = 50'

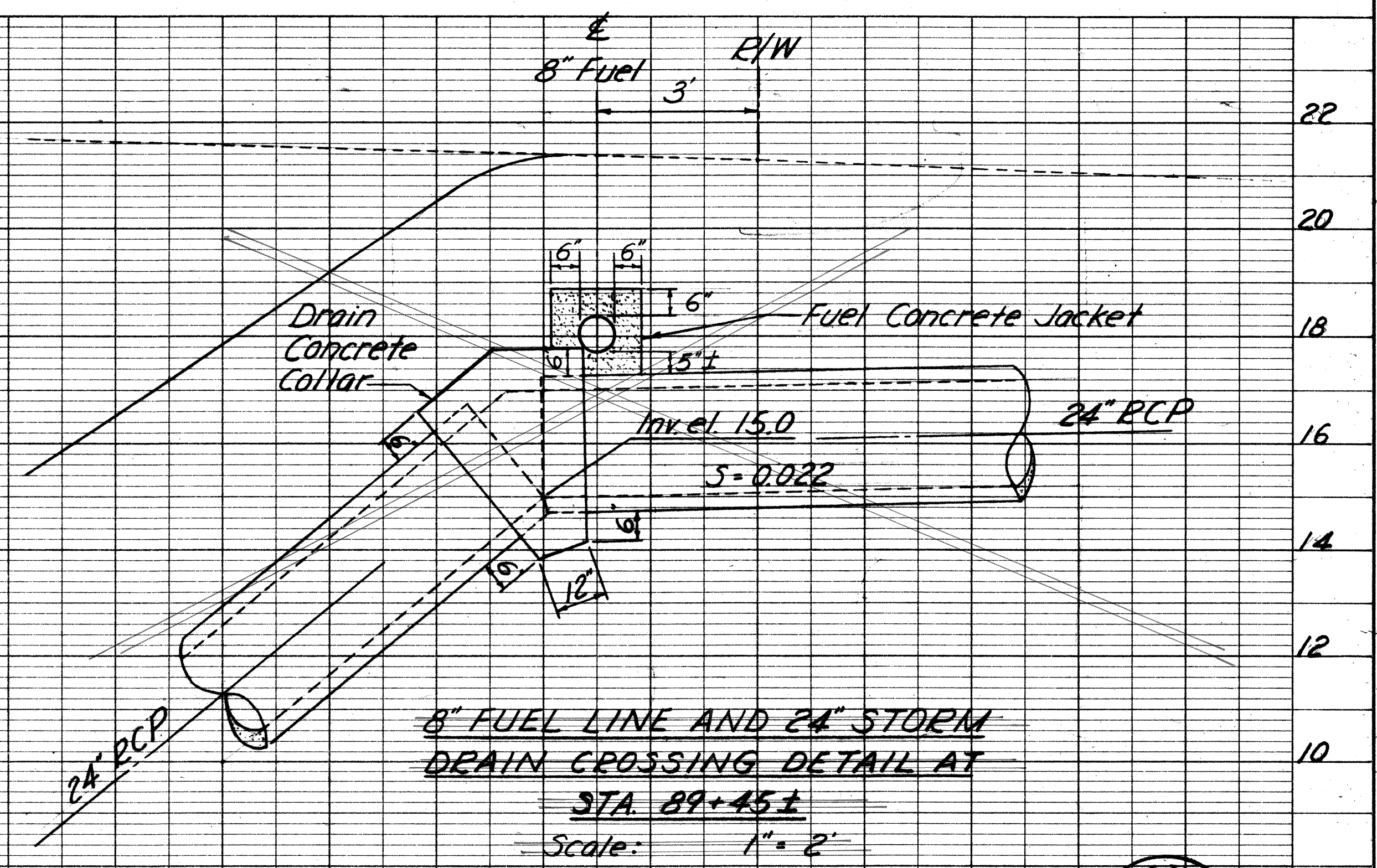


TYPICAL TRENCH SECTION  
No Scale

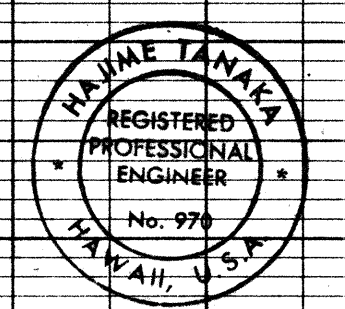
| PROFILE | DATE | BY |
|---------|------|----|
| NO. 1   |      |    |
| NO. 2   |      |    |
| NO. 3   |      |    |
| NO. 4   |      |    |
| NO. 5   |      |    |
| NO. 6   |      |    |
| NO. 7   |      |    |
| NO. 8   |      |    |
| NO. 9   |      |    |
| NO. 10  |      |    |
| NO. 11  |      |    |
| NO. 12  |      |    |
| NO. 13  |      |    |
| NO. 14  |      |    |
| NO. 15  |      |    |
| NO. 16  |      |    |
| NO. 17  |      |    |
| NO. 18  |      |    |
| NO. 19  |      |    |
| NO. 20  |      |    |
| NO. 21  |      |    |
| NO. 22  |      |    |
| NO. 23  |      |    |
| NO. 24  |      |    |
| NO. 25  |      |    |
| NO. 26  |      |    |
| NO. 27  |      |    |
| NO. 28  |      |    |
| NO. 29  |      |    |
| NO. 30  |      |    |
| NO. 31  |      |    |
| NO. 32  |      |    |
| NO. 33  |      |    |
| NO. 34  |      |    |
| NO. 35  |      |    |
| NO. 36  |      |    |
| NO. 37  |      |    |
| NO. 38  |      |    |
| NO. 39  |      |    |
| NO. 40  |      |    |
| NO. 41  |      |    |
| NO. 42  |      |    |
| NO. 43  |      |    |
| NO. 44  |      |    |
| NO. 45  |      |    |
| NO. 46  |      |    |
| NO. 47  |      |    |
| NO. 48  |      |    |
| NO. 49  |      |    |
| NO. 50  |      |    |
| NO. 51  |      |    |
| NO. 52  |      |    |
| NO. 53  |      |    |
| NO. 54  |      |    |
| NO. 55  |      |    |
| NO. 56  |      |    |
| NO. 57  |      |    |
| NO. 58  |      |    |
| NO. 59  |      |    |
| NO. 60  |      |    |
| NO. 61  |      |    |
| NO. 62  |      |    |
| NO. 63  |      |    |
| NO. 64  |      |    |
| NO. 65  |      |    |
| NO. 66  |      |    |
| NO. 67  |      |    |
| NO. 68  |      |    |
| NO. 69  |      |    |
| NO. 70  |      |    |
| NO. 71  |      |    |
| NO. 72  |      |    |
| NO. 73  |      |    |
| NO. 74  |      |    |
| NO. 75  |      |    |
| NO. 76  |      |    |
| NO. 77  |      |    |
| NO. 78  |      |    |
| NO. 79  |      |    |
| NO. 80  |      |    |
| NO. 81  |      |    |
| NO. 82  |      |    |
| NO. 83  |      |    |
| NO. 84  |      |    |
| NO. 85  |      |    |
| NO. 86  |      |    |
| NO. 87  |      |    |
| NO. 88  |      |    |
| NO. 89  |      |    |
| NO. 90  |      |    |
| NO. 91  |      |    |
| NO. 92  |      |    |
| NO. 93  |      |    |
| NO. 94  |      |    |
| NO. 95  |      |    |
| NO. 96  |      |    |
| NO. 97  |      |    |
| NO. 98  |      |    |
| NO. 99  |      |    |
| NO. 100 |      |    |
| NO. 101 |      |    |
| NO. 102 |      |    |
| NO. 103 |      |    |
| NO. 104 |      |    |
| NO. 105 |      |    |
| NO. 106 |      |    |
| NO. 107 |      |    |
| NO. 108 |      |    |
| NO. 109 |      |    |
| NO. 110 |      |    |
| NO. 111 |      |    |
| NO. 112 |      |    |
| NO. 113 |      |    |
| NO. 114 |      |    |
| NO. 115 |      |    |
| NO. 116 |      |    |
| NO. 117 |      |    |
| NO. 118 |      |    |
| NO. 119 |      |    |
| NO. 120 |      |    |
| NO. 121 |      |    |
| NO. 122 |      |    |
| NO. 123 |      |    |
| NO. 124 |      |    |
| NO. 125 |      |    |
| NO. 126 |      |    |



PROFILE  
Scale: Horiz 1" = 50'  
Vert 1" = 5'

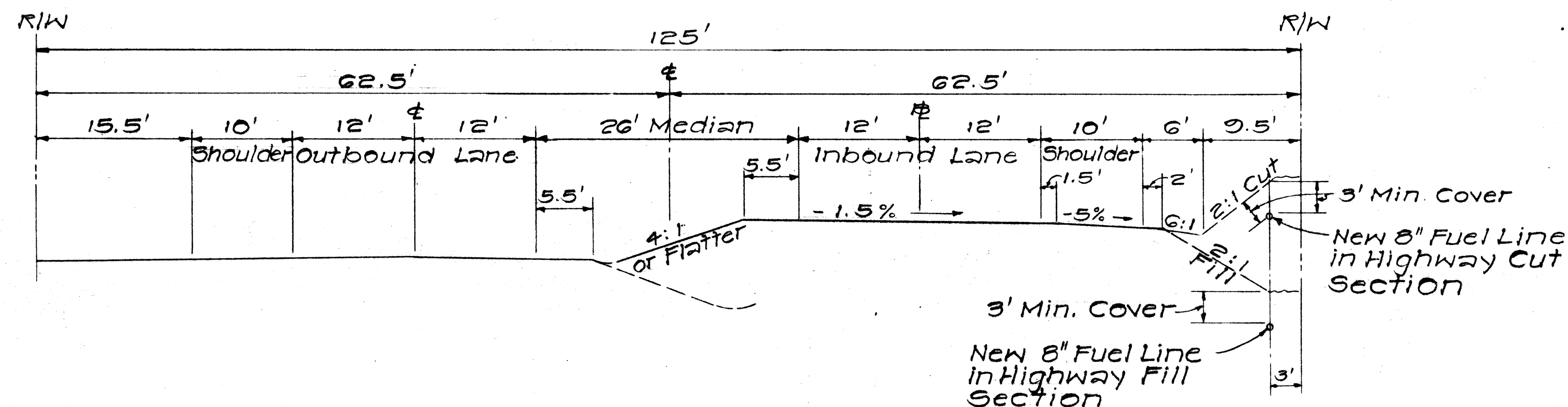


8" FUEL LINE AND 24" STORM DRAIN CROSSING DETAIL AT  
STA. 89+45±  
Scale: 1" = 2'



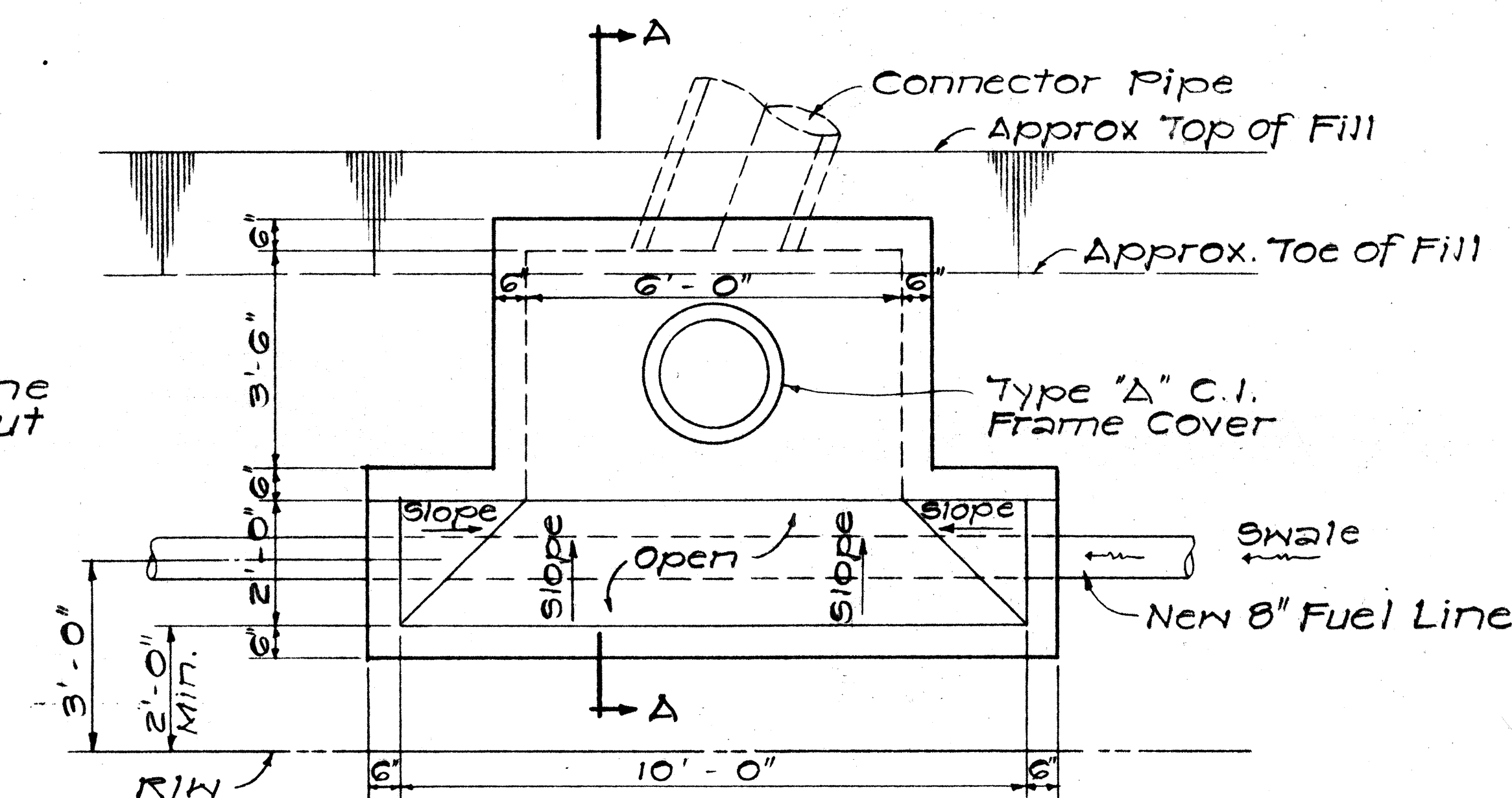


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | F-RF-011-2(13)     | 1975        | 36d       | 12C          |



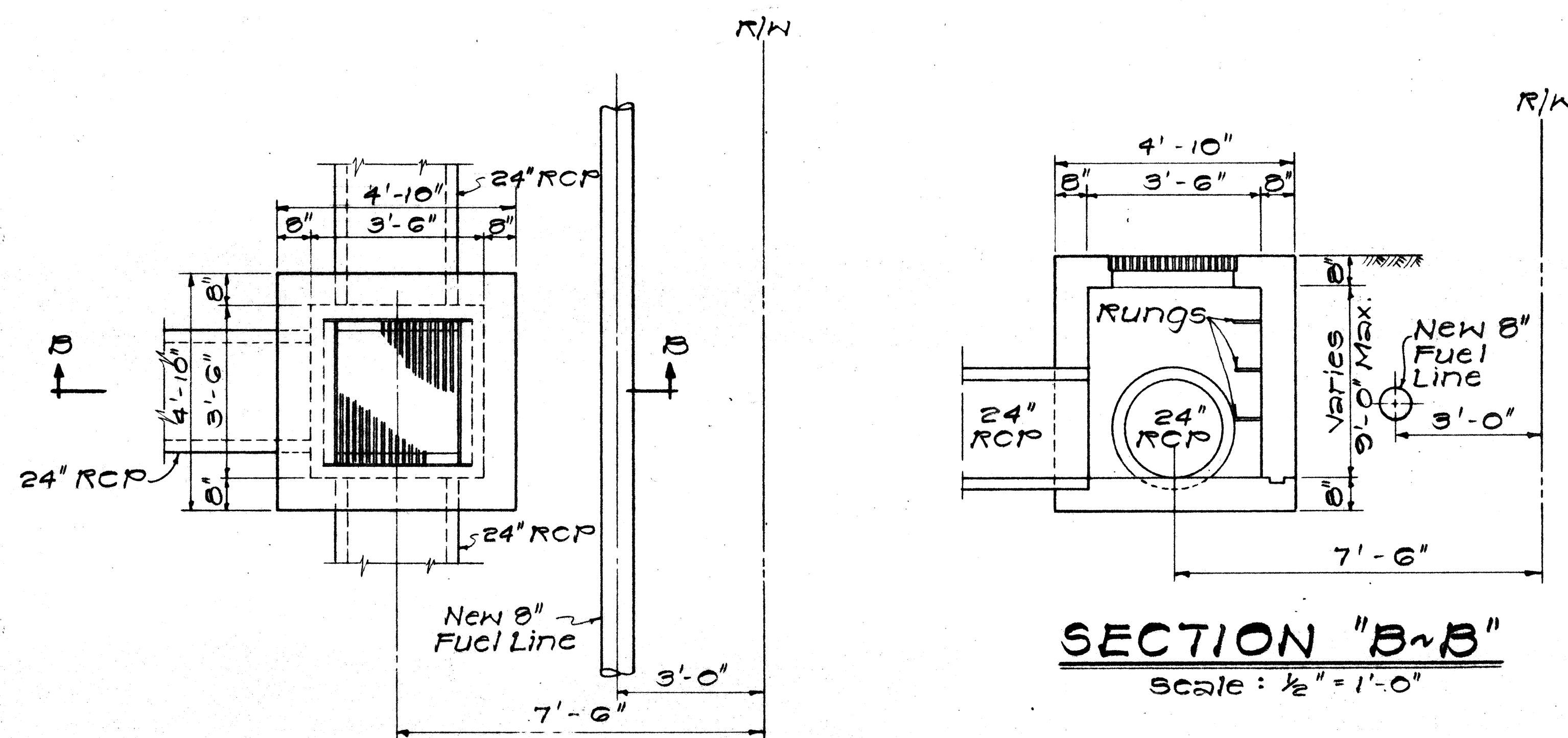
**TYPICAL KANOELEHUHUA AVE. SECTION**

Scale:  $\frac{1}{8}" = 1'-0"$



**PLAN**

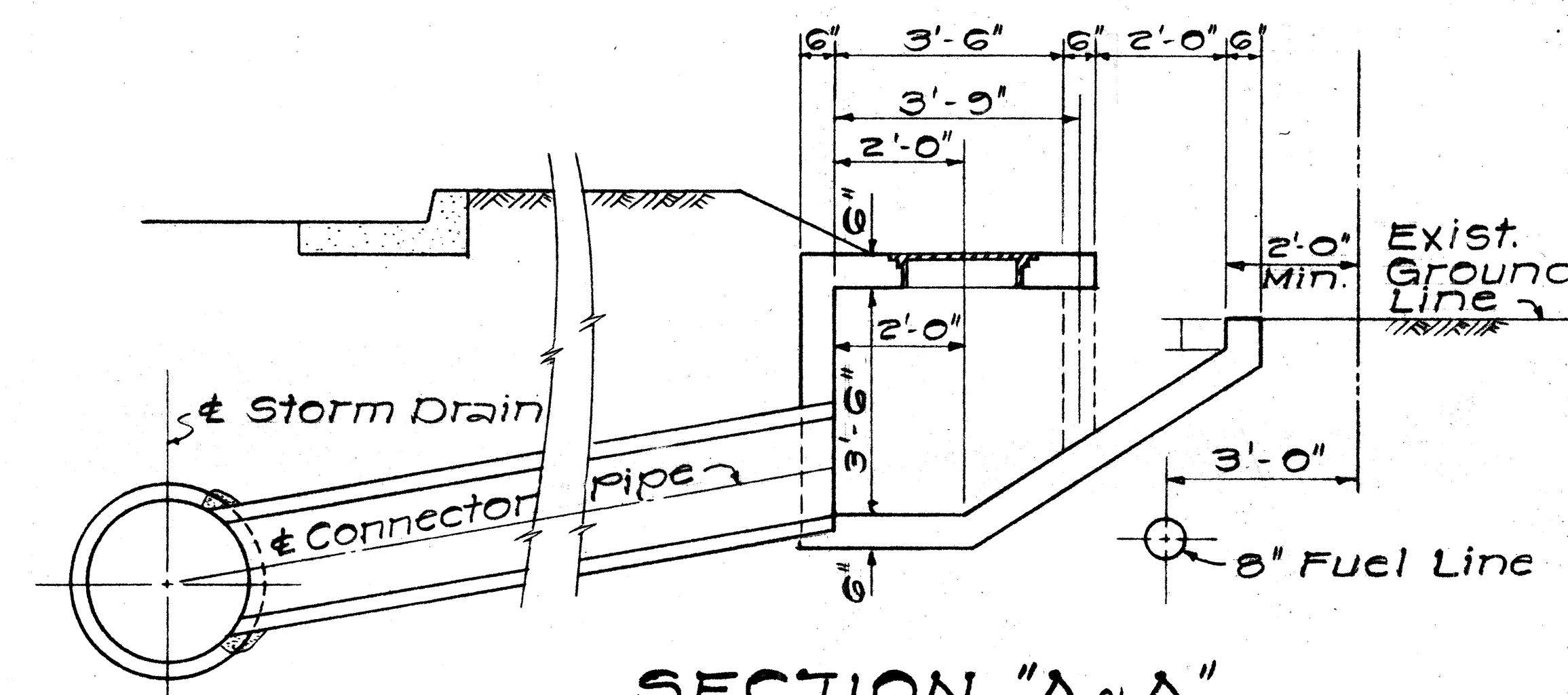
Scale:  $\frac{1}{2}" = 1'-0"$



**PLAN**

Scale:  $\frac{1}{2}" = 1'-0"$

**TYPE "A" CATCH BASIN**

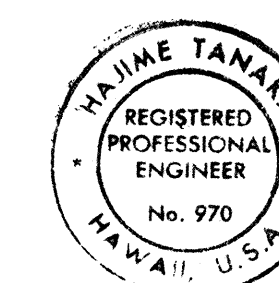


**SECTION "A-A"**

Scale:  $\frac{1}{2}" = 1'-0"$

**TYPE "D" CATCH BASIN**

|             |    |
|-------------|----|
| DATE        | BY |
| DESIGNED BY | BY |
| CHECKED BY  | BY |
| NOTED BY    | BY |
| ORIGINAL    | BY |



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

HELCO 8" FUEL LINE

KANOELEHUHUA AVE.  
MAKALIKA ST. TO KAMEHAMEHA AVE.  
FEDERAL AID PROJECT NO. F-RF-011-2(13)  
SCALE: AS SHOWN

SHEET No. 4 OF 4 SHEETS