

DEFLECTION ANGLES  
 TRANSIT ON T.S. SIGHT ON POINT NUMBER

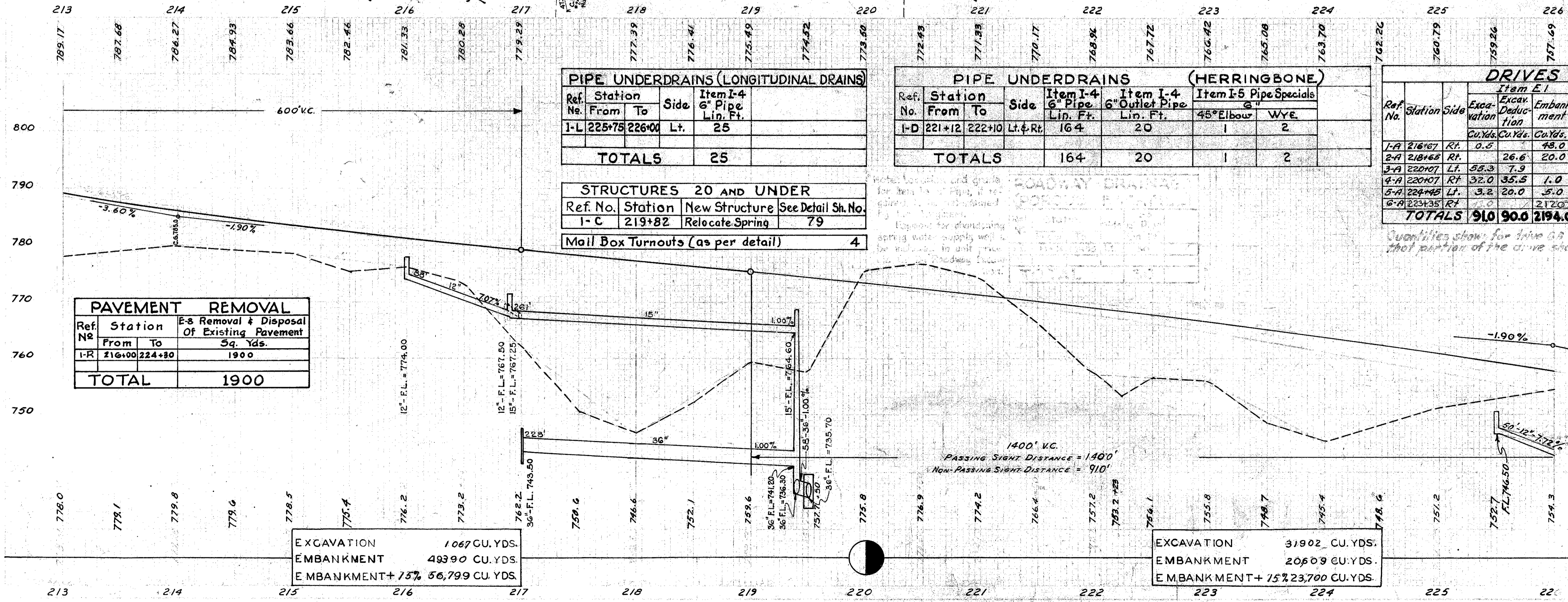
|    |            |
|----|------------|
| 1  | 0°-00'-36" |
| 2  | 0°-02'-36" |
| 3  | 0°-05'-36" |
| 4  | 0°-10'-00" |
| 5  | 0°-15'-36" |
| 6  | 0°-21'-36" |
| 7  | 0°-30'-00" |
| 8  | 0°-40'-00" |
| 9  | 0°-50'-36" |
| 10 | 1°-02'-36" |

B.M. - Knob on West Head-wall on Arizona Drive at Right of Sta. 216+40  
 Elevation 773.207

**GUARD RAIL**

| Ref. No.      | Station |        | Item I-15 |                    |                    |                  |            |
|---------------|---------|--------|-----------|--------------------|--------------------|------------------|------------|
|               | From    | To     | Side      | Guard Rail Removed | Guard Rail Rebuilt | Guard Rail Posts |            |
| 1-G           | 213+00  | 220+00 | Lt.       | 293                |                    | 700              |            |
| 2-G           | 216+86  | 219+79 | Rt.       |                    | 293                |                  |            |
| 3-G           | 220+47  | 222+52 | Rt.       | 217                |                    |                  |            |
| 4-G           | 223+21  | 224+40 | Rt.       |                    | 9                  | 120              |            |
| 5-G           | 224+40  | 226+00 | Lt.       |                    |                    |                  |            |
| <b>TOTALS</b> |         |        |           | <b>510</b>         | <b>474</b>         | <b>9</b>         | <b>820</b> |

\* Posts Placed on 4' Centers



**PIPE UNDERDRAINS (LONGITUDINAL DRAINS)**

| Ref. No.      | Station | Side   | Item I-4 6" Pipe Lin. Ft. |
|---------------|---------|--------|---------------------------|
| I-L           | 225+75  | 226+00 | Lt. 25                    |
| <b>TOTALS</b> |         |        |                           |

**PIPE UNDERDRAINS (HERRINGBONE)**

| Ref. No.      | Station | Side   | Item I-4 6" Pipe Lin. Ft. | Item I-4 6" Outlet Pipe Lin. Ft. | Item I-5 Pipe Specials |
|---------------|---------|--------|---------------------------|----------------------------------|------------------------|
| I-D           | 221+12  | 222+10 | Lt. & Rt. 164             | 20                               | 45° Elbow 1, WYE 2     |
| <b>TOTALS</b> |         |        |                           |                                  |                        |

**DRIVES**

| Ref. No.      | Station | Side | Item E-1           |                    | Item I-7           |                                | Item I-1      |    |
|---------------|---------|------|--------------------|--------------------|--------------------|--------------------------------|---------------|----|
|               |         |      | Excavation Cu.Yds. | Embankment Cu.Yds. | Aggr. gate Cu.Yds. | 12" Pipe for Driveway Lin. Ft. | Apron Type #2 |    |
| 1-A           | 216+67  | Rt.  | 0.5                | 48.0               | 1.8                | 12.5                           | 30.0          | #2 |
| 2-A           | 218+68  | Rt.  | 26.6               | 20.0               | 2.2                | 14.0                           |               | #2 |
| 3-A           | 220+07  | Lt.  | 55.3               | 7.9                |                    | 22.5                           |               | #1 |
| 4-A           | 220+07  | Rt.  | 32.0               | 35.5               | 1.0                | 24.0                           |               | #1 |
| 5-A           | 224+40  | Lt.  | 3.2                | 20.0               | 5.0                | 4.0                            | 40.0          | #2 |
| 6-A           | 223+35  | Rt.  | 2.0                | 212.0              |                    | 60.0                           |               | #2 |
| <b>TOTALS</b> |         |      |                    |                    |                    |                                |               |    |

Quantities shown for drive 6A include quantities for that portion of the drive shown on sheet #11.

**STRUCTURES 20 AND UNDER**

| Ref. No.                                 | Station | New Structure   | See Detail Sh. No. |
|--|---------|-----------------|--------------------|
| I-C                                      | 219+82  | Relocate Spring | 79                 |
| <b>Mail Box Turnouts (as per detail)</b> |         |                 |                    |
| <b>4</b>                                 |         |                 |                    |

**PAVEMENT REMOVAL**

| Ref. No.     | Station | E-8 Removal & Disposal Of Existing Pavement Sq. Yds. |      |
|--------------|---------|--|------|
| I-R          | 216+00  | 224+30   | 1900 |
| <b>TOTAL</b> |         |  |      |
| <b>1900</b>  |         |  |      |

**EXCAVATION** 1067 CU. YDS.  
**EMBANKMENT** 48390 CU. YDS.  
**EMBANKMENT + 15% 56,799 CU. YDS.**

**EXCAVATION** 31902 CU. YDS.  
**EMBANKMENT** 20609 CU. YDS.  
**EMBANKMENT + 15% 23,700 CU. YDS.**

**STORM SEWERS**

| Ref. No.      | Station | Side | Type               | Excavation   |              | Apron    | 12" Pipe for Driveway | Type #2   |
|---------------|---------|------|--------------------|--------------|--------------|----------|-----------------------|-----------|
|               |         |      |                    | Cu. Yds.     | Lin. Ft.     |          |                       |           |
| I-10          | 216+00  | Rt.  | 15" Under 36" Pavt | 88           | 177          | 84       | 228                   | 58        |
| I-8           | 216+50  | Lt.  | 15" Under 36" Pavt | 177          | 84           | 228      | 58                    | 58        |
| I-6           | 217+10  | Lt.  | 15" Under 36" Pavt | 58           | 116          | 116      | 116                   | 116       |
| I-4           | 219+40  | Lt.  | 15" Under 36" Pavt | 50           | 100          | 100      | 100                   | 100       |
| I-2           | 225+50  | Lt.  | 15" Under 36" Pavt | 50           | 100          | 100      | 100                   | 100       |
| <b>TOTALS</b> |         |      |                    |              |              |          |                       |           |
|               |         |      |                    | <b>13017</b> | <b>84256</b> | <b>3</b> | <b>1100</b>           | <b>37</b> |