

CP #2,  $5/8"$   $\phi$  Iron Rod Found at Sta. 130+22.30, 53.60' Lt., Elev. 632.48

22'-3" Long C.I.P. L-Shaped Wingwall For Culvert under CH 92 (Forest Way Drive).

-Proposed 9" S.E. Wingwall &amp; Footing

\*  
Exist. Footing & Shoulder will  
Remain in Place and must not  
be Disturbed in any Way.

*Exist. Guardrail to be Removed  
and Replaced with New Guardrail  
(See Roadway Plans)*

See Detail "A", below for removal  
of Exist. S.E. Wingwall and Footing

S.E. WINGWALL


6'-3"  
Exist. Footing to be  
Removed & Replaced

\*  
6" Min. Existing Reinforcement  
Bars to Remain

22'-3"  
Exist. S.E. Wingwall & Footing  
to be Removed & Replaced  
DETAIL "A"

DETAIL "A"

LEGEND:

 Concrete Removal

*NOTE:*

*The Contractor must not Disturb the Soil Under the Footing During Concrete Removal*

## DESIGN STRESSES

FIELD UNITS

$$f_y = 60,000 \text{ psi}$$
 $f'_c = 3,500 \text{ psi}$ 

## DESIGN SPECIFICATIONS

AASHTO 17th Edition-2002

GENERAL NOTES:

*Plan Dimensions and Details relative to Existing Plans are subject to nominal Construction variations. The Contractor shall field verify Existing Dimensions and Details affecting New Construction and make necessary approved adjustments prior to Construction or ordering of Materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.*

*All Exposed Concrete Edges shall be Chamfered  $\frac{3}{4}$ ", Unless Otherwise Noted.*

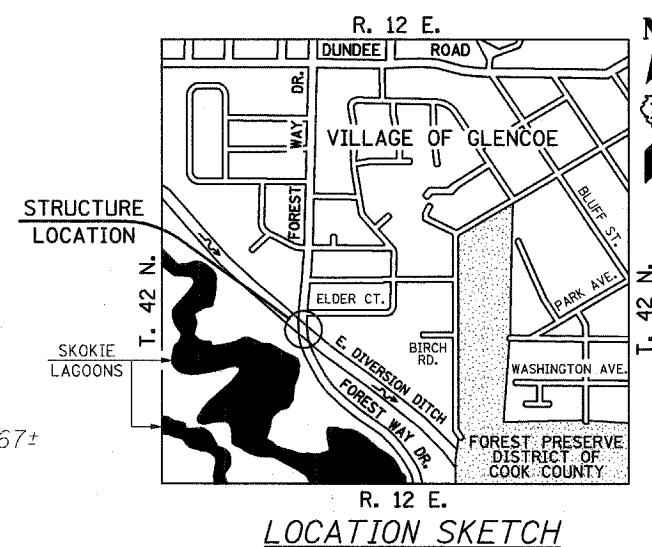
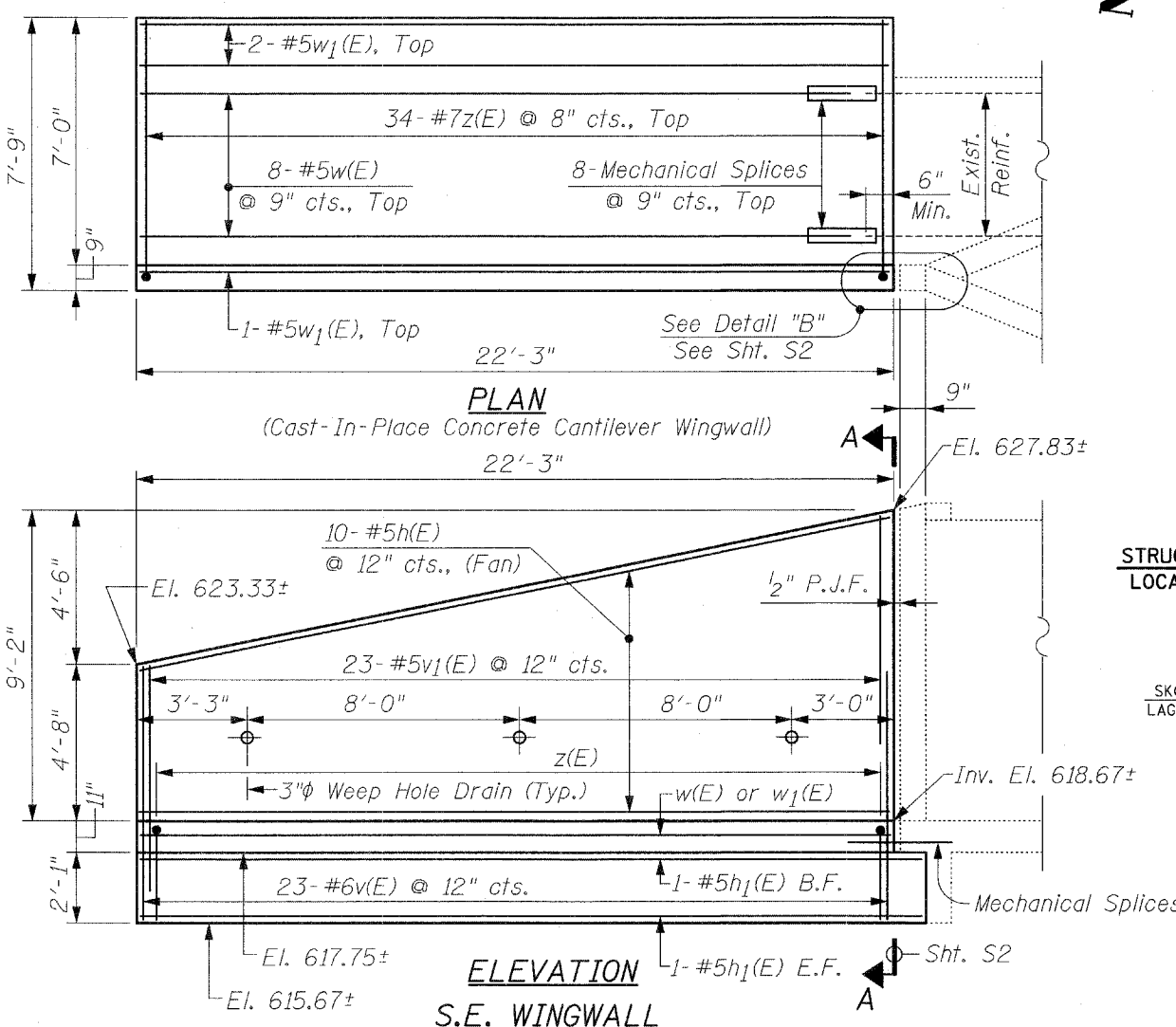
For Soil Boring Logs, See Sht. S3.

*Reinforcement Bars shall conform to the Requirements of ASTM A 706, Grade 60. See Special Provisions*

Reinforcement Bars designated (E) shall be Epoxy Coated.

### BILL OF MATERIAL

| Bar                                 | No. | Size | Length  | Shape |
|-------------------------------------|-----|------|---------|-------|
| $h(E)$                              | 10  | #5   | 21'-11" | —     |
| $h_1(E)$                            | 3   | #5   | 22'-8"  | —     |
|                                     |     |      |         |       |
| $v(E)$                              | 23  | #6   | 7'-4"   | —     |
| $v_1(E)$                            | 23  | #5   | 6'-8"   | —     |
|                                     |     |      |         |       |
| $w(E)$                              | 8   | #5   | 21'-5"  | —     |
| $w_1(E)$                            | 3   | #5   | 21'-11" | —     |
|                                     |     |      |         |       |
| $z(E)$                              | 34  | #7   | 10'-1"  | ┐     |
| Concrete Structures                 |     |      | Cu. Yd. | 11.6  |
| Structure Excavation                |     |      | Cu. Yd. | 62    |
| Reinforcement Bars,<br>Epoxy Coated |     |      | Pound   | 1,660 |
| Concrete Removal                    |     |      | Cu. Yd. | 10.5  |
| Porous Granular Backfill            |     |      | Cu. Yd. | 52    |
| <b>COFFERDAM, LOCATION 1</b>        |     |      | Each    | 1     |
| Geocomposite Wall Drain             |     |      | Sq. Yd. | 13    |
| Mechanical Splice                   |     |      | Each    | 8     |



**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
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1 Rev. 4-8-09

|                                  |                             |                         |           |
|----------------------------------|-----------------------------|-------------------------|-----------|
| FILE NAME =<br>plan.sections.dgn | USER NAME = IDOT            | DESIGNED = B.N.S.       | REVISED = |
|                                  |                             | DRAWN = R.E.S./F.M.     | REVISED = |
|                                  | PLOT SCALE = 50.0000' / IN. | CHECKED = B.N.S./J.C.N. | REVISED = |
|                                  | PLOT DATE = 1/30/2009       | DATE = JANUARY 27, 2009 | REVISED = |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WINGWALL PLAN & ELEVATION  
CH 92 (FOREST WAY DRIVE)**

|        |                           |      |         |
|--------|---------------------------|------|---------|
| SCALE: | SHEET NO. S1 OF S3 SHEETS | STA. | TO STA. |
|--------|---------------------------|------|---------|

|                     |            |                  |              |   |
|---------------------|------------|------------------|--------------|---|
| CH                  | SECTION    | COUNTY           | TOTAL SHEETS | S |
| 92                  | 2008-029 I | COOK             | 14           |   |
|                     |            | CONTRACT NO. 601 |              |   |
| FED. ROAD DIST. NO. | ILLINOIS   | FED. AID PROJECT |              |   |