

GENERAL NOTES

1. Calculated Weight of Structural Steel = 1,780 pounds which includes the angle and steel plate for the end of steel liner detail on sheet S8.
2. Structural steel for Corrugated Steel Arch Liner shall be AASHTO M167. All other structural steel shall be AASHTO M270. All steel shall be galvanized according to AASHTO M111 or M232 as applicable.
3. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
6. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
7. The foundation design is based on the following maximum reactions applied at the top of the footing:

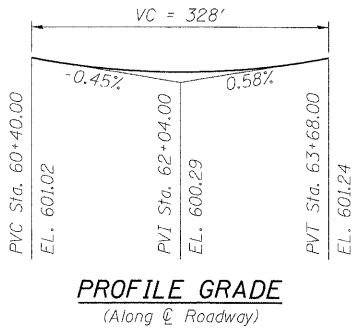
Corrugated Steel Liner Footings: 10.9 k/ft (vertical), 0.0 k/ft (horizontal), (west end)
 Corrugated Steel Liner Footings: 10.5 k/ft (vertical), 3.1 k/ft (horizontal), (east end)
 3-Sided PCC Structure Footings: 12.6 k/ft (vertical), 2.4 k/ft (horizontal)

The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details, and the required structural seals shall be submitted for review and approval.
8. The Contractor is advised that the existing Stone Arch Culvert is in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the Stone Arch when developing construction procedures for removal and replacement of the structure, including excavation for the footings to be installed for the corrugated steel liner within the existing stone arch.
9. The option of using a precast footing is not allowed.
10. Removal of excavated materials and other miscellaneous debris from inside of culvert, including any silt or loose material from the streambed shall not be paid for separately, but shall be included in the cost of Removal and Disposal of Unsuitable Material. It is assumed that the depth of removal will be 2 Foot. This depth is to be verified in the field.

STATION 61+42.94
 BUILT 20_ _ BY
 STATE OF ILLINOIS
 F.A.P. ROUTE 577 SEC D-T
 LOADING HS20-44
 STRUCTURE NO. 099-0538

NAME PLATE
 See Std. 515001

NOTE:
 Existing Name Plate, if present, shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

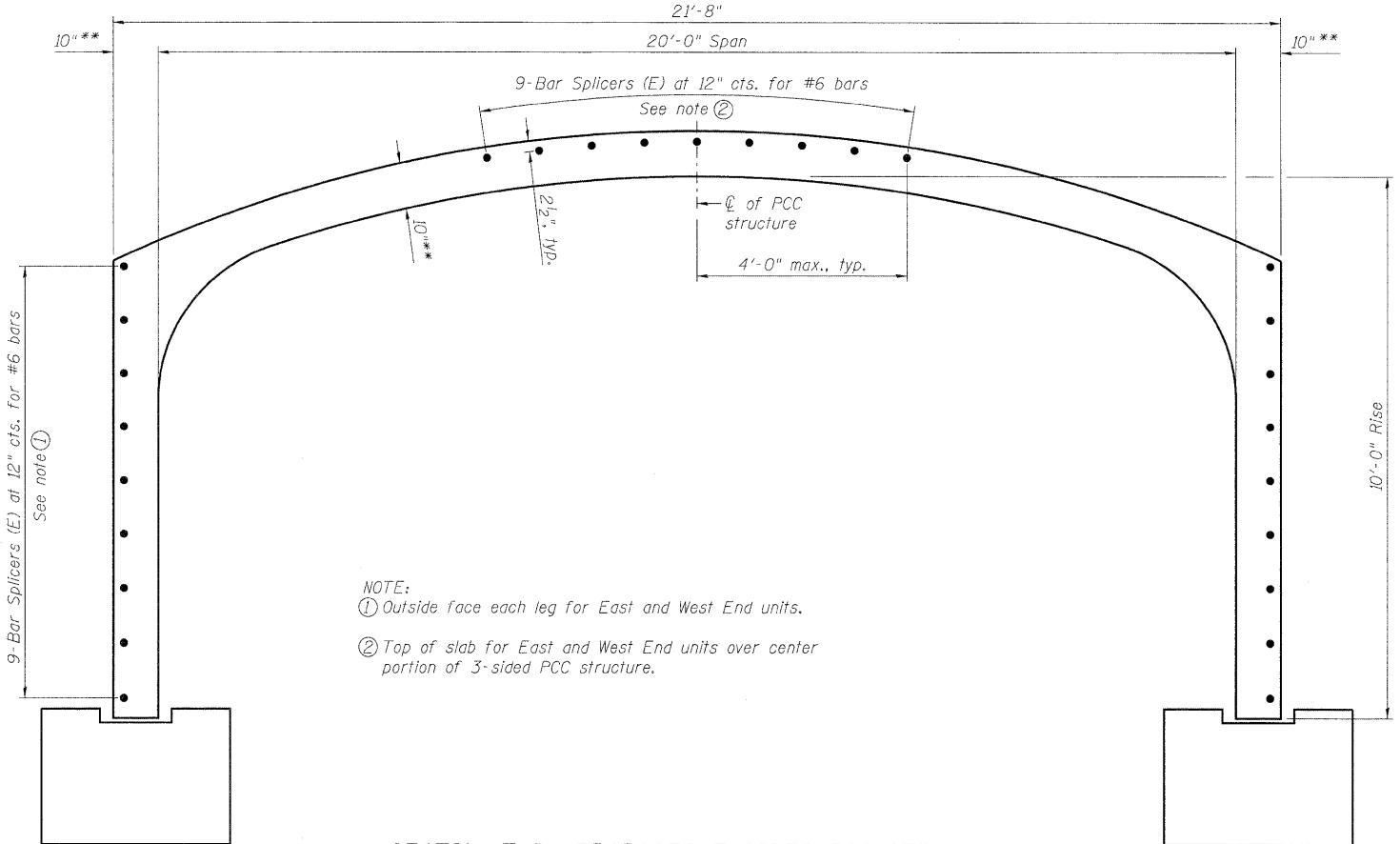


INDEX OF SHEETS

- S1. General Plan and Elevation
- S2. General Data and Bill of Material
- S3. Foundation Plan
- S4. Foundation Details
- S5. Cast-in-Place Transition West End
- S6. Cast-in-Place Transition East End
- S7. Corrugated Steel Plate Liner Details (1 of 2)
- S8. Corrugated Steel Plate Liner Details (2 of 2)
- S9. Bar Splicer Assembly and Mechanical Splicer Details
- S10. Boring Log (1 of 2)
- S11. Boring Log (2 of 2)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	156
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	621.9
Rock Excavation for Structures	Cu. Yd.	4
Concrete Structures	Cu. Yd.	45.0
Furnishing and Erecting Structural Steel	Pound	1780
Reinforcement Bars, Epoxy Coated	Pound	11460
Bar Splicers	Each	86
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	19.8
Temporary Soil Retention System	Sq. Ft.	67
Three-Sided Precast Concrete Structures, 20' x 10'	Foot	48
Corrugated Steel Arch Liner	Foot	48
Riveted Corrugated Steel Pipe	L.Sum	1
Construction Vibration Monitoring	L.Sum	1



NOTE:
 ① Outside face each leg for East and West End units.
 ② Top of slab for East and West End units over center portion of 3-sided PCC structure.

SECTION THRU PROPOSED 3-SIDED PCC STRUCTURE

**Slab and wall thicknesses may vary as per manufacturer's design

Notes:
 Bar Splicers are used to tie together C.I.P. and PCC 3-Sided structures.
 Precast Manufacturer to coordinate with Contractor and contract documents once the final shape of the 3 sided structure has been determined to verify that the bar splicers will be accommodated within the CIP sections.

LONCO, INC.
 CONSULTING ENGINEERS
 1560 WALL ST., SUITE 222
 NAPERVILLE, ILLINOIS 60563 PH. (630) 577-9100

DESIGNED - SLV	REVISED -
CHECKED - MJM	REVISED -
DRAWN - SLV	REVISED -
CHECKED - MJM	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA AND BILL OF MATERIAL
 STRUCTURE NO. 099-0538**

SHEET NO. 52 OF 511 SHEETS

F.A.P. RTE. 577	SECTION D-T	COUNTY WILL	TOTAL SHEETS 44	SHEET NO. 21
D-91-265-06		CONTRACT NO. 60B10		
ILLINOIS FED. AID PROJECT				