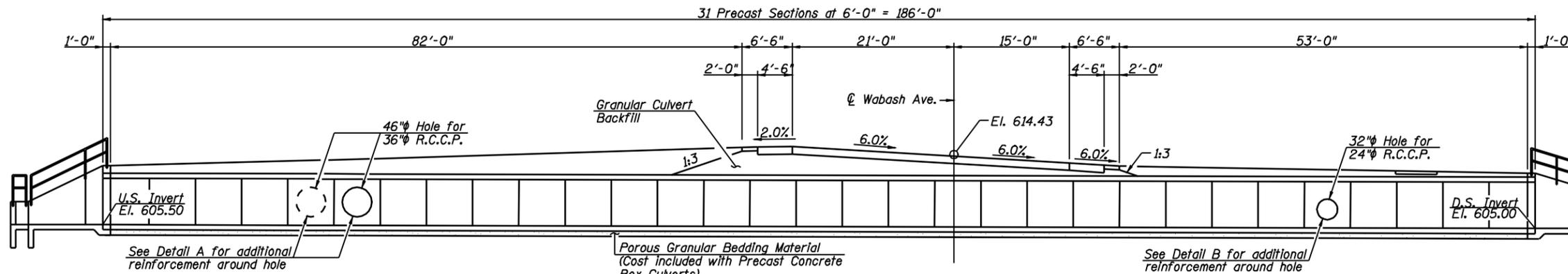


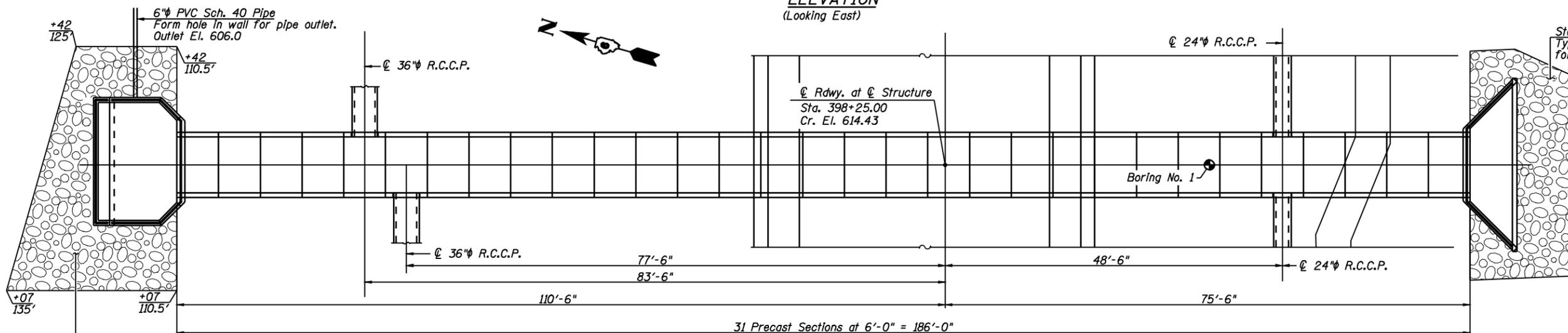
Benchmark #68: Chiseled "□" in east end of south concrete headwall under old concrete pavement in triangle formed by Wabash Ave. and Bunker Hill Road and old concrete pavement at Sta. 396+74.8, 113.8' Lt., El. 613.548  
 Benchmark #100: Chiseled "□" in center of south concrete headwall of 24" culvert under westbound offramp ±455' N.E. along Wabash Ave. from I-72, El. 615.58

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706, Grade 60. See Special Provisions.  
 For backfilling and embankment, see Special Provisions.  
 Layout of the riprap may be varied in the field to suit ground conditions as directed by the Engineer.  
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.  
 Precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of A.A.S.H.T.O. M 273.  
 Precast End Sections will not be allowed. Cast in place concrete exposed edges shall be beveled 3/4".  
 All construction joints shall be bonded. Outside end of precast sections at the ends of the culvert shall not have a bell or spigot.



**ELEVATION**  
(Looking East)



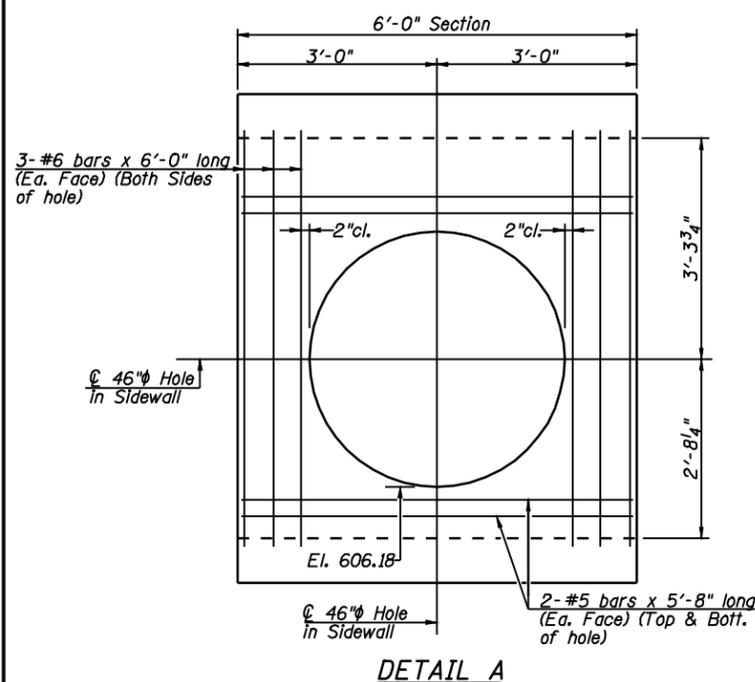
**PLAN**

Stone Dumped Riprap, Class A4 Typ. (See Roadway Plans for layout & quantity.)

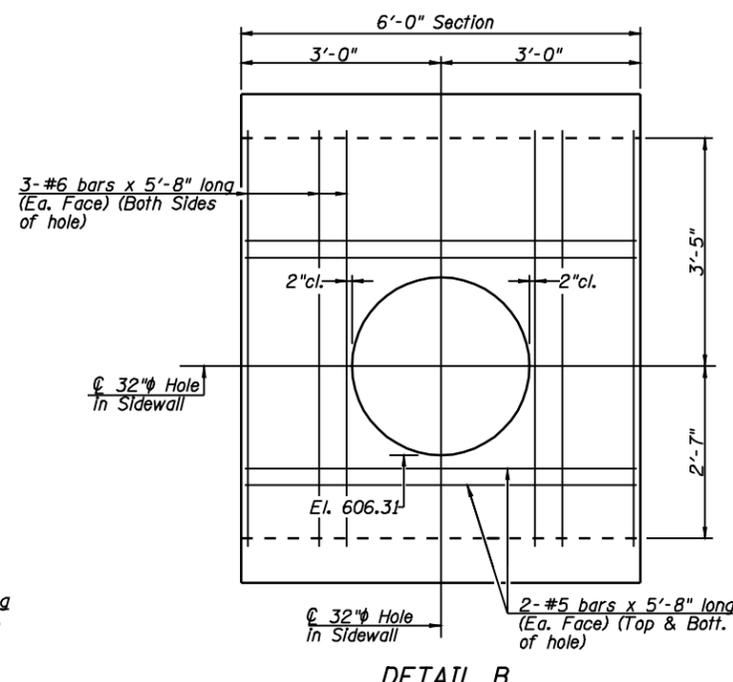
Stone Dumped Riprap, Class A4 & Filter Fabric (Quantity shown in Bill of Material)

**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Precast Concrete Box Culverts 8' x 6'	Foot	186
Granular Culvert Backfill	Cu. Yd.	358
Pipe Handrail	Foot	80
Stone Dumped Riprap, Class A4	Ton	33
Filter Fabric	Sq. Yd.	49
Box Culvert End Section, Culvert No. 1	Each	2

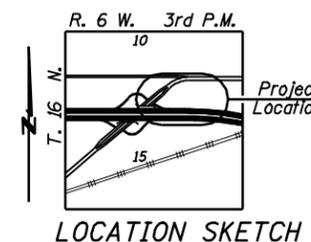


**DETAIL A**



**DETAIL B**

**LOADING HS20-44**  
 Allow for 50#/sq. ft. future wearing surface. Interstate loading is not required.  
 The design fill height for the precast box culverts is less than 2'.  
**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (Reinforcement)  
**PRECAST UNITS**  
 $f'_c = 5000$  p.s.i.  
 $f_y = 65000$  p.s.i. (Welded Wire Fabric)



**GENERAL PLAN & ELEVATION**  
**WABASH AVENUE OVER**  
**WATERWAY NO. 1**  
**STA. 398+25.00**  
**SANGAMON COUNTY**

**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62708 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

SHEET NO. 1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8012	21(I-3)	SANGAMON	147	57
5 SHEETS			CONTRACT NO. 72A02		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			