

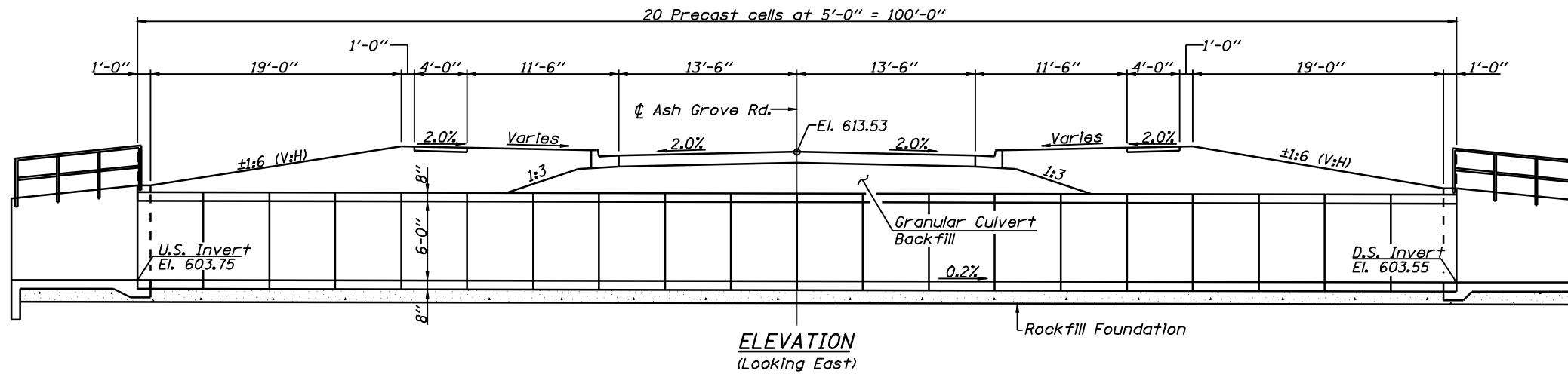
Benchmark #TA-9: Chiseled "□" In North edge of future signal foundation at southwest quad Wabash Avenue and Ash Grove Road El. 616.623

TOTAL BILL OF MATERIAL

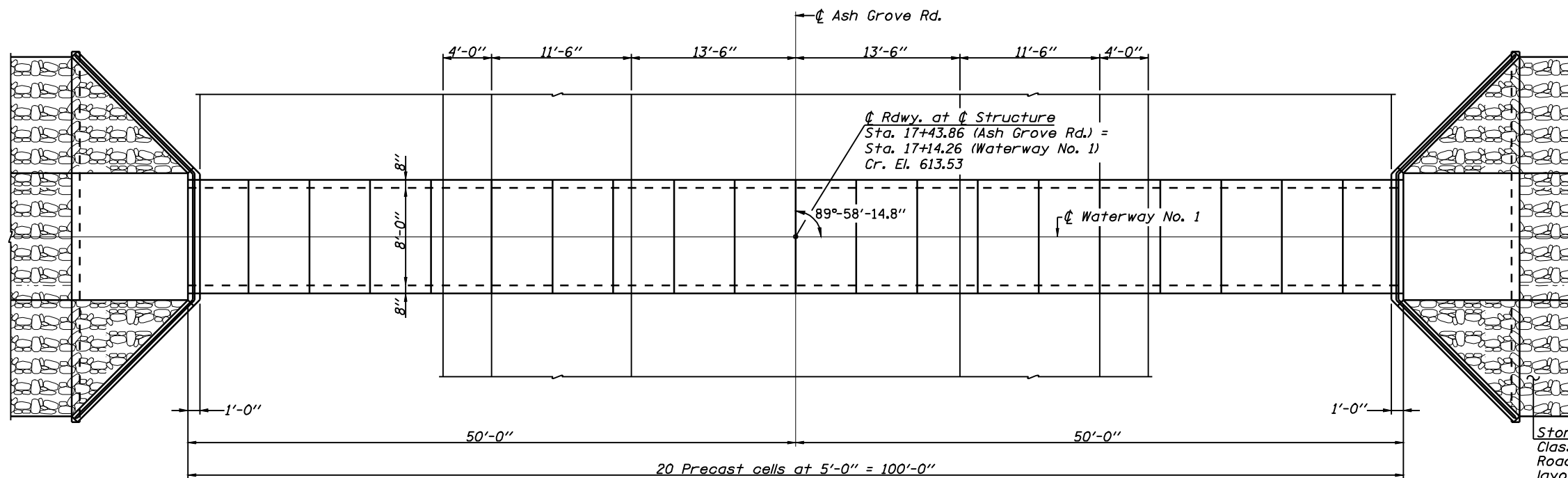
Item	Unit	Quantity
Precast Concrete Box Culverts 8' x 6'	Foot	100
Rockfill Foundation	Ton	92
Pipe Handrail	Foot	74
Granular Culvert Backfill	Cu. Yd.	358
Box Culvert End Section, Culvert No. 2	Each	2

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.
 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 259.
 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.
 Rockfill Foundation will be required beneath the culvert.
 The Engineer will determine the required depth following excavation to plan grades.



ELEVATION
(Looking East)



PLAN

Stone Dumped Riprap, Class A3 Typ. (See Roadway Plans for layout and quantity)

LOADING HS20-44

Allow for 50*/sq. ft. future wearing surface. Interstate loading is not required. The design fill height for the precast box culvert is 2'.

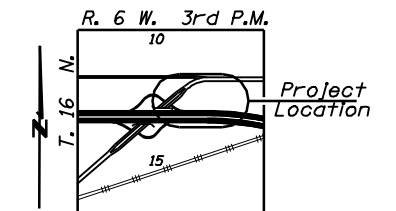
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 p.s.i.
 fy = 60,000 p.s.i. (Reinforcement)

PRECAST UNITS

f'c = 5000 p.s.i.
 fy = 65000 p.s.i. (Welded Wire Fabric)



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
 ASH GROVE ROAD OVER
 WATERWAY NO. 1
 STA. 17+43.86
 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
 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	62
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		