

B.M. TA-218: 60d Spike Nail in Power Pole 0.25 miles East along US 136 from TR 2200 E. South of ϕ Exist. US 136 Elev. 606.88 (184.976 m)

EXISTING STRUCTURE: Built as S.B.I. Route 9, Section 26X, Station 246+32 in 1941. Single 14'x13' Reinforced Concrete Box Culvert 103'-3" Bk. to Bk. Headwalls. Existing Structure to be removed after FA 315 E.B.L. is constructed. Two-way traffic shall be maintained on the existing structure during construction of FA 315 E.B.L. No Salvage.

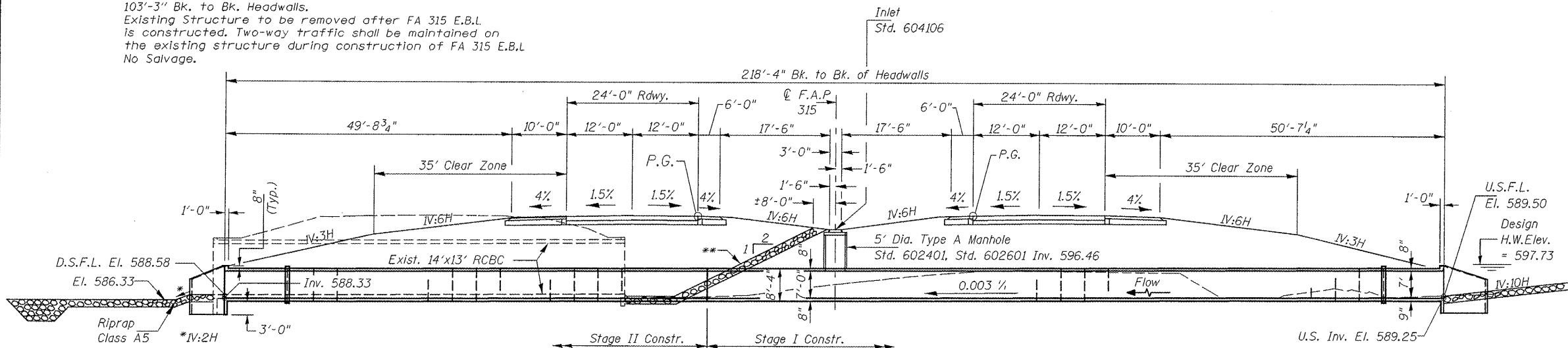
CONSTRUCTION SEQUENCE & MAINTENANCE OF TRAFFIC

1. Construct south portion of new culvert (Stage I) while maintaining two-way traffic on existing structure.
2. Move two-way traffic to newly constructed E.B.L.
3. Remove existing structure as required.
4. Construct north portion of new structure (Stage II).

ROUTE NO.	SEC.	COUNTY	SECTION	SHEET
FA 315	34-4	HANCOCK	452	233
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT		

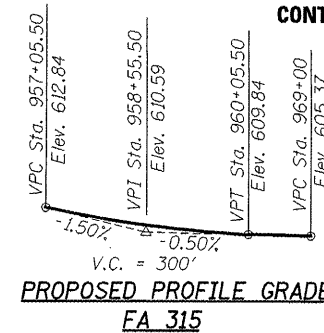
SHEET NO. 1
7 SHEETS

CONTRACT NO. 72680



LONGITUDINAL SECTION

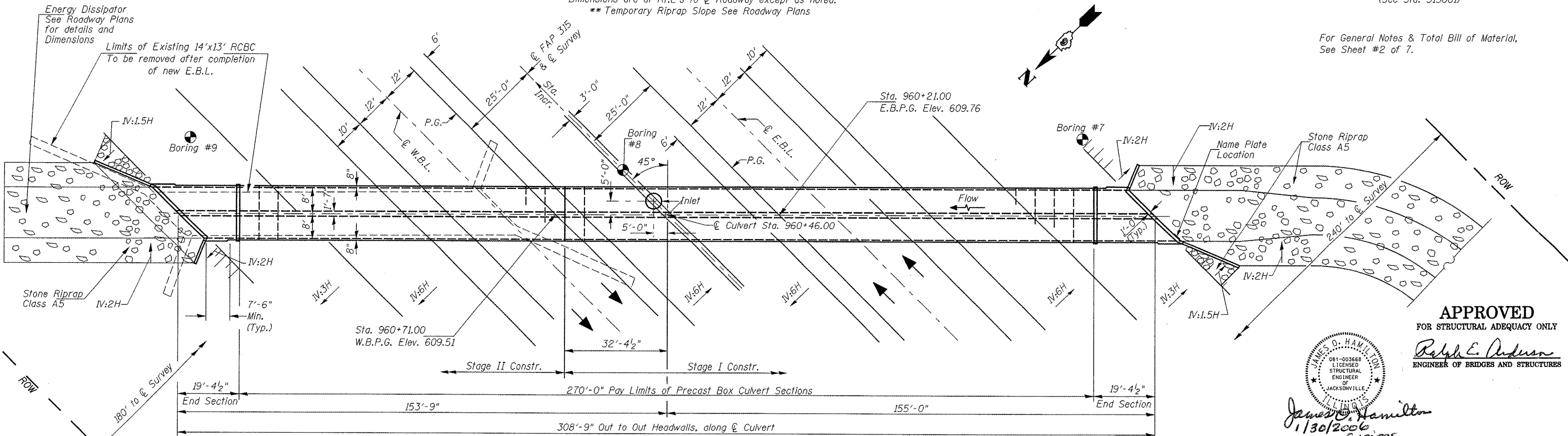
Dimensions are at Rt.L.'s to ϕ Roadway except as noted.
** Temporary Riprap Slope See Roadway Plans



STATION 960+46.00
BUILT BY
STATE OF ILLINOIS
F.A.P. ROUTE 315 SEC. 34-4
LOADING HS20
STR. NO. 034-2513

NAME PLATE
(See Std. 515001)

For General Notes & Total Bill of Material, See Sheet #2 of 7.



PLAN

WATERWAY INFORMATION

DESIGNED		JOH	
CHECKED		BRT	
DRAWN		TC TD	
CHECKED		JOH	

Drainage Area = 2.21 Mi ²		Ex. Low Grade Elev. 603.67 ft. ϕ Sta. 974+25.00		Pr. Low Grade Elev. 605.05 ft. ϕ Sta. 970+25.00					
Flood	Frequency Year	Discharge (cfs)	Waterway Opening (ft ²) Existing	Proposed	Natural H.W.E.	Head (ft.) Existing	Proposed	Existing	Proposed
Design	50	1014	129	112	***	0.9	1.7	598.95	599.43
Base	100	1186	143	112	***	1.9	2.7	599.95	600.39
Overtopping									
Max. Calc.	500	1608	176	112	***	4.2	5.67	602.27	603.40

*** 598.04 Existing
597.73 Proposed

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999, 2000 & 2002 Interims

DESIGN STRESSES

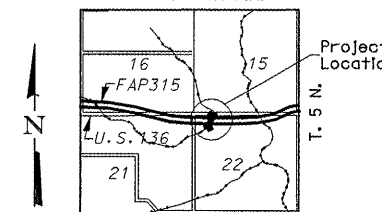
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)

PRECAST UNITS

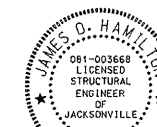
f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

R. 6 W. 4th P.M.



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY



James D. Hamilton
11/30/2006
License Expires 11/30/2006

GENERAL PLAN
U.S. ROUTE 136 OVER
TRIBUTARY PRAIRIE CREEK
F.A.P. ROUTE 315 SECTION 34-4
HANCOCK COUNTY
STATION 960+46.00
STR. NO. 034-2513

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS

Date: January 31, 2006