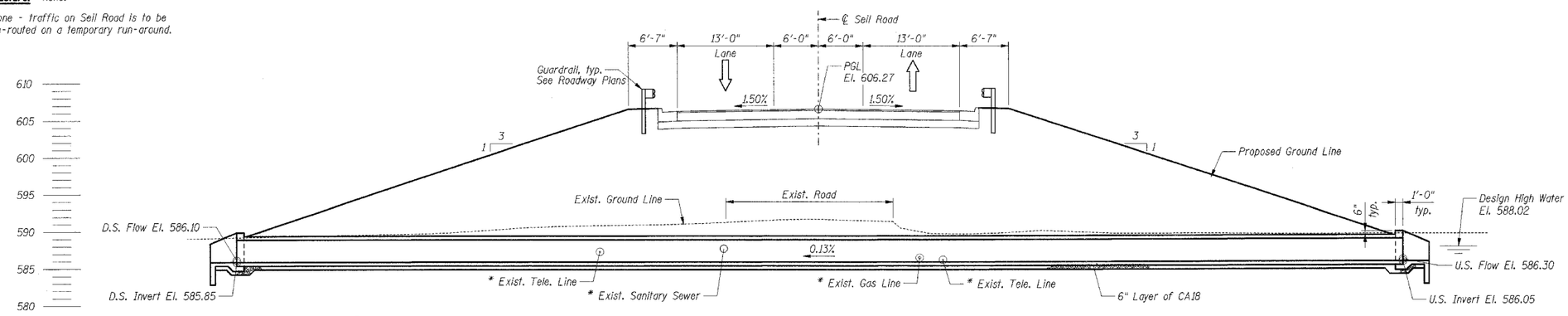
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
59	*	WILL	608	389
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* (26, 26HB-1 & 114) R-2
CONTRACT NO. 60363

Benchmark: TBM#3: Square cut on top of box culvert headwall (near center of the headwall) at the northwest corner of the intersection of Seil Rd. and West Frontage Rd. Elev. 591.70

Existing Structure: None.

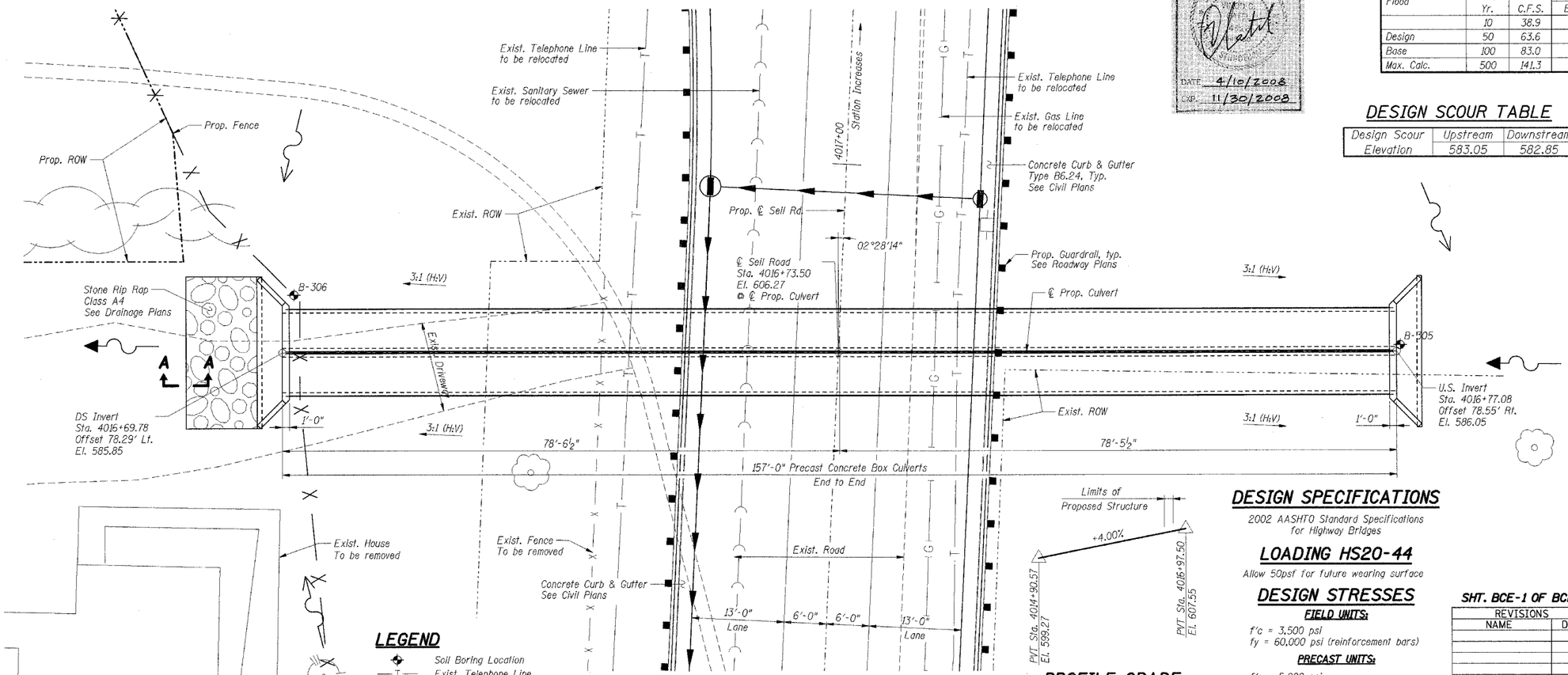
Staging: None - traffic on Seil Road is to be re-routed on a temporary run-around.



* Utilities to be relocated by others.

LONGITUDINAL SECTION

(All dimensions and slopes given at right angles to centerline U.N.O.)



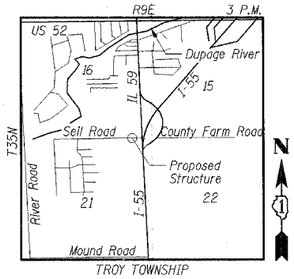
LEGEND

- Soil Boring Location
- Exist. Telephone Line
- Exist. Gas Line
- Exist. Electrical Pole
- Exist. Sanitary Sewer
- Prop. Storm Sewer

PLAN - CULVERT NO. 6

PROFILE GRADE SEIL ROAD

(Along ℄ Roadway)



LOCATION MAP

WATERWAY INFORMATION

Drainage Area = 60.94 Acres — Low Grade Elev. 592.98 @ Sta. 4010+50

Flood	Freq. Yr.	Q C.F.S.	Opening - Sq. Ft. Exist.	Opening - Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	38.9	n/a	8.40	587.14	n/a	0.51	n/a	587.65
Design	50	63.6	n/a	11.10	587.41	n/a	0.61	n/a	588.02
Base	100	83.0	n/a	13.00	587.60	n/a	0.95	n/a	588.55
Max. Calc.	500	141.3	n/a	18.40	588.14	n/a	1.36	n/a	589.50

DESIGN SCOUR TABLE

Design Scour Elevation	Upstream	Downstream
	583.05	582.85

INDEX OF SHEETS

BCE-1 GENERAL PLAN AND ELEVATION
BCE-2 BOX CULVERT END SECTIONS
BCE-3 SOIL BORING LOGS

GENERAL NOTES:

Cast-In-Place Concrete
All exposed concrete edges shall have a ¾" chamfer unless noted otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

Reinforcement Bars
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Construction
For backfilling and embankment, see Standard Specifcations.

Precast Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 259.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

All construction joints shall be bonded.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

Allow 50psf for future wearing surface

DESIGN STRESSES

FIELD UNITS:

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

PRECAST UNITS:

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

DESIGN FILL HEIGHT

Maximum Fill Height = 17.2'

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	186
Box Culvert End Section, Culvert No. 6	Each	2
Precast Concrete Box Culvert 5' X 3' (M259)	Ft.	314

DATE 4/10/2008
EXP. 11/30/2008

SHT. BCE-1 OF BCE-3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 338 (ILLINOIS ROUTE 59)
SEIL ROAD DOUBLE BOX CULVERT
SECTION (26, 26HB-1 & 114) R-2
STRUCTURE NUMBER 099-C022
STATION 4016+73.50, WILL COUNTY

GENERAL PLAN & ELEVATION

DRAWN BY: MDB
DATE: 03/14/08 CHECKED BY:

TENG & ASSOCIATES, INC
ENGINEERS/ARCHITECTS/PLANNERS
203 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE 312/856-0300

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