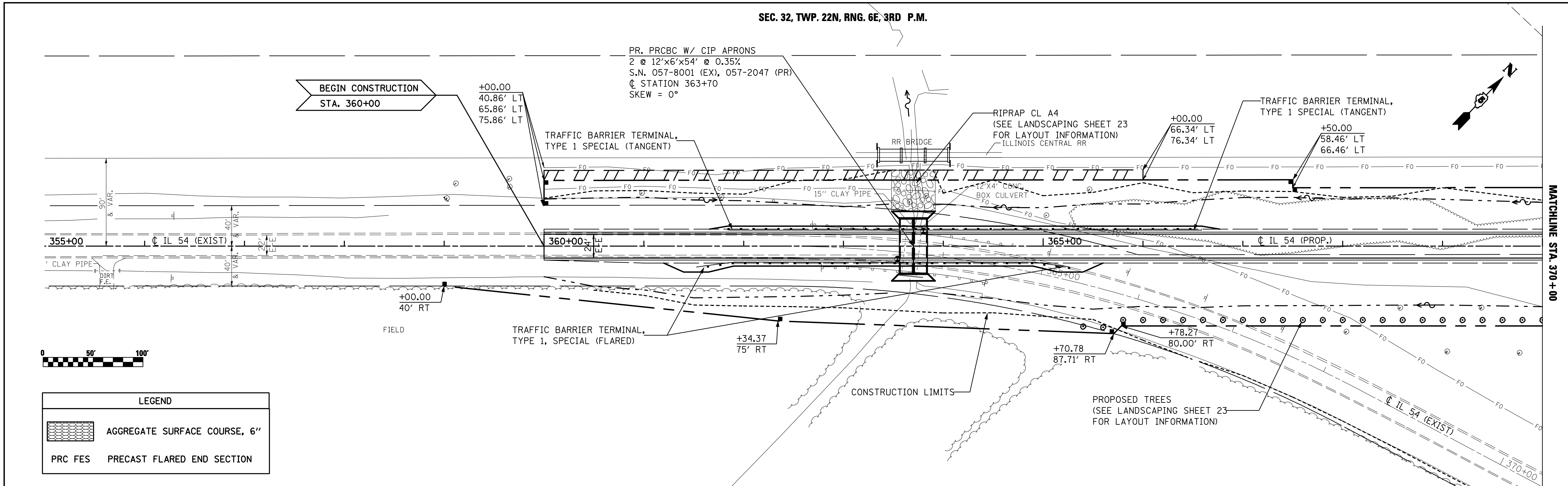
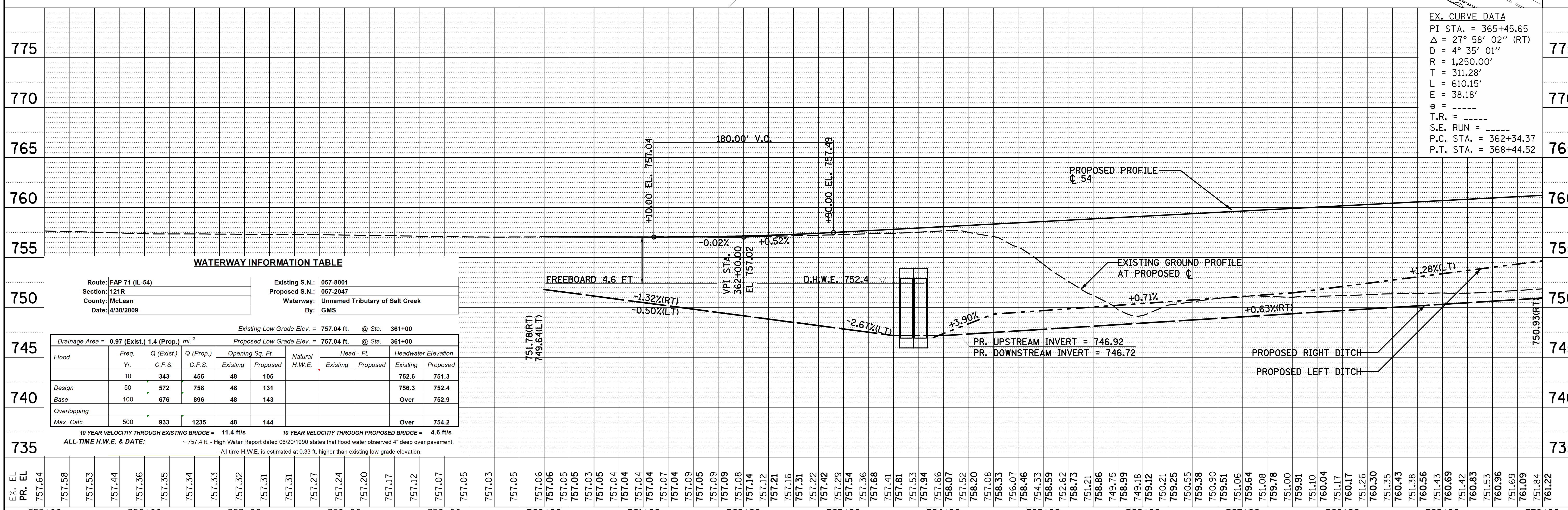
SEC. 32, TWP. 22N, RNG. 6E, 3RD P.M.



LEGEND

(hatch)	AGGREGATE SURFACE COURSE, 6"
PRC FES	PRECAST FLARED END SECTION



EX. CURVE DATA
PI STA. = 365+45.65
Δ = 27° 58' 02" (RT)
D = 4° 35' 01"
R = 1,250.00'
T = 311.28'
L = 610.15'
E = 38.18'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 362+34.37
P.T. STA. = 368+44.52

WATERWAY INFORMATION TABLE

Route:	FAP 71 (IL-54)	Existing S.N.:	057-8001
Section:	121R	Proposed S.N.:	057-2047
County:	McLean	Waterway:	Unnamed Tributary of Salt Creek
Date:	4/30/2009	By:	GMS

Existing Low Grade Elev. = **757.04 ft.** *@ Sta.* **361+00**

Drainage Area = **0.97 (Exist.) 1.4 (Prop.)** *mi.²* *Proposed Low Grade Elev. =* **757.04 ft.** *@ Sta.* **361+00**

Flood	Freq. Yr.	Q (Exist.) C.F.S.	Q (Prop.) C.F.S.	Opening Sq. Ft. Existing	Opening Sq. Ft. Proposed	Natural H.W.E.	Head - Ft. Existing	Head - Ft. Proposed	Headwater Elevation Existing	Headwater Elevation Proposed
	10	343	455	48	105				752.6	751.3
Design	50	572	758	48	131				756.3	752.4
Base	100	676	896	48	143				Over	752.9
Overtopping										
Max. Calc.	500	933	1235	48	144				Over	754.2

***10 YEAR VELOCITIY THROUGH EXISTING BRIDGE =* 11.4 ft/s** ***10 YEAR VELOCITIY THROUGH PROPOSED BRIDGE =* 4.6 ft/s**

ALL-TIME H.W.E. & DATE: ~ 757.4 ft. - High Water Report dated 06/20/1990 states that flood water observed 4" deep over pavement.
- All-time H.W.E. is estimated at 0.33 ft. higher than existing low-grade elevation.

PLAN	NOTE BOOK / NO.	SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME	BY	DATE
PROFILE	NOTE BOOK / NO.	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD	BY	DATE

FILE NAME =	USER NAME = keysrb	DESIGNED -	REVISED -
c:\pw_work\pwidot\keysrb\d0101441\D570592-sht-plnprfIL54.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/16/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PLAN AND PROFILE
IL 54

SCALE: | SHEET NO. OF SHEETS | STA. 360+00 TO STA. 370+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
71	121R	MCLEAN	87	15

CONTRACT NO. 70592

ILLINOIS FED. AID PROJECT