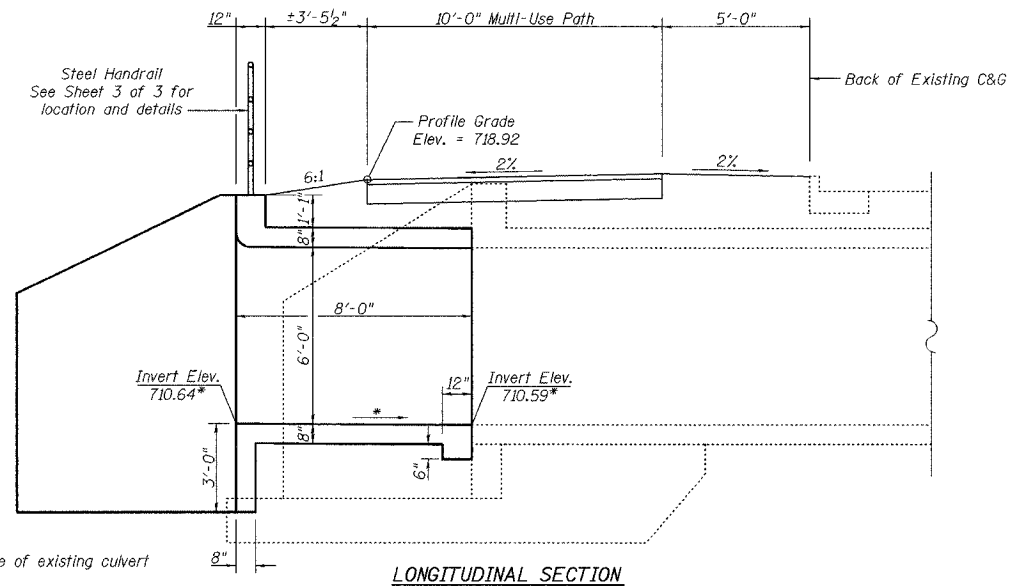


Benchmark: Chiseled "x" on east end of existing headwall. Elev. 718.76  
 Existing Structure: Double 6'x6' Precast Concrete Box Culvert, extended in 1998.  
 No Salvage.

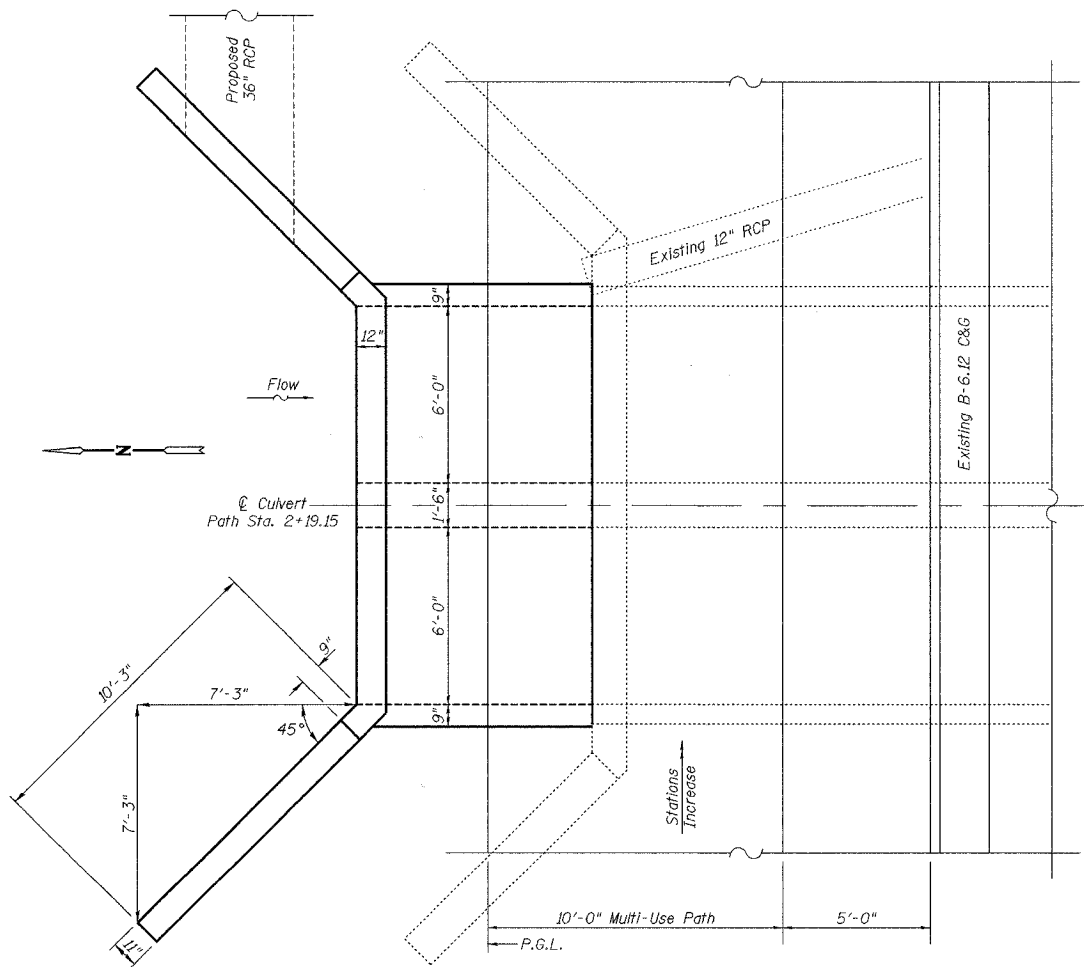
COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	27
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805

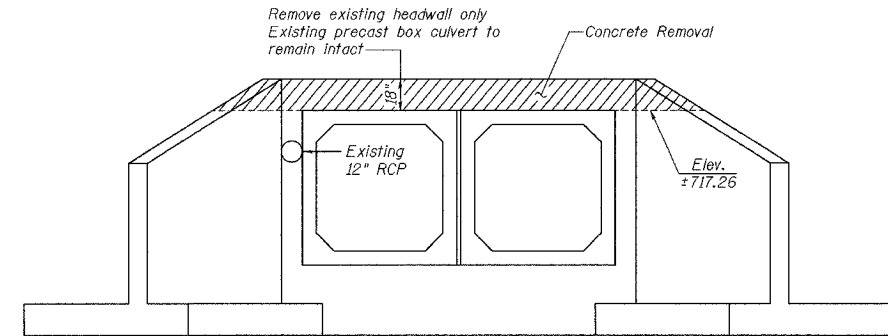


\* Match invert and slope of existing culvert

LONGITUDINAL SECTION



PLAN

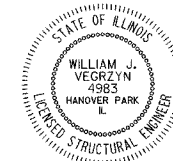


REMOVAL NOTES:

Cut existing reinforcement flush with removal surface.  
 Existing 12" storm sewer shall be removed.

REMOVAL DETAILS

Looking South



William J. Vegrzyn 7/22/05  
 Expires 11-30-06

I certify to the best of my knowledge, information and belief, this bridge, box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specification for Highway Bridges".

LOADING HS20-44  
 DESIGN SPECIFICATIONS

AASHTO 17th Ed. - 2002

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	1.4
Concrete Box Culverts	Cu. Yd.	19.2
Reinforcement Bars	Pound	3830
Expansion Bolts 3/4 Inch	Each	40
Pipe Handrail	Foot	33

7/22/2005 8:03:32 AM k:\1190001\culvert\plan.dgn

NO.	DATE	BY	REVISION

SCALE	N/A
DRAWN BY	BLB DATE
CHECKED BY	WJV DATE
APPROVED BY	DATE



R/N GROUP, INC.  
 CONSULTING ENGINEERS

PROJECT  
**Southern DuPage County Regional Trail**  
**101st Street Connector - Waterfall Glen Spur**

TITLE  
**CULVERT EXTENSION**  
 DATE: JUNE 9, 2005  
 PROJECT No.: II-1900-01  
 SHEET: 1 of 3