

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF STRUCTURAL SHEETS

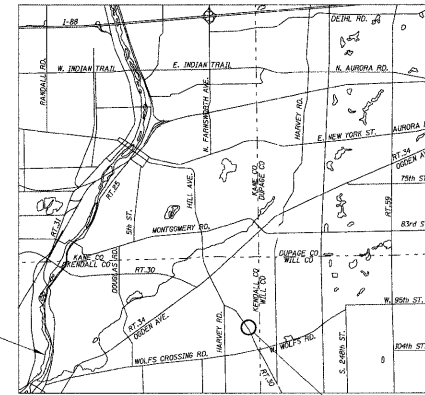
SHT. NO.	DESCRIPTION
S-1	GENERAL PLAN, ELEVATION AND INDEX
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GENERAL NOTES

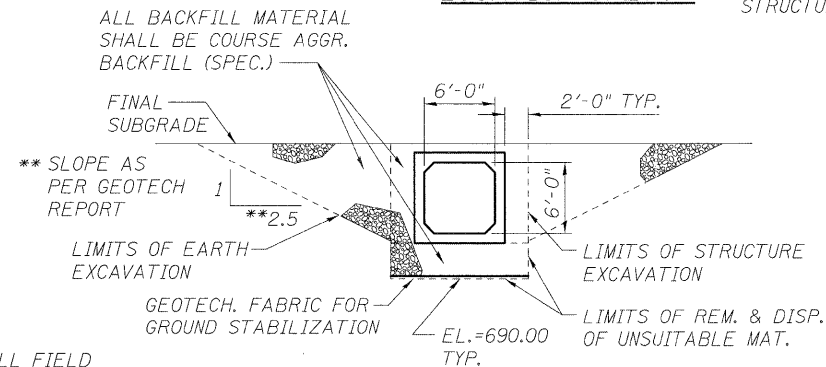
- EXISTING STRUCTURE: 047-0200 NOT SALVAGEABLE. THE NEW STRUCTURE NUMBER IS 047-0300.
- THE PROPOSED PRECAST CONCRETE BOX CULVERT SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OF AASHTO M273. COST IS INCLUDED IN PRECAST CONCRETE BOX CULVERT 6'x6' ITEM.
- FLOW OF THE CREEK UNDER US ROUTE 30 IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PLACING A TEMPORARY STREAM DIVERSION AT THE UPSTREAM END OF THE BOX CULVERT/WINGWALLS AND TEMPORARILY PUMPING OR OTHERWISE CONVEYING THE STREAM FLOW THROUGH THE WORK ZONE. THE DESIGN AND CONSTRUCTION OF THE TEMPORARY DIVERSION SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND THE COST SHALL BE INCLUDED IN CONCRETE BOX CULVERTS ITEM. THE TEMPORARY STREAM DIVERSION PLAN TO BE USED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
- LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER PRECAST BOX SECTIONS ARE IN PLACE.
- THE INFORMATION SHOWN IN THESE PLANS CONCERNING THE TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE EXISTENCE, TYPE, SIZE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AS MAY BE NECESSARY TO AVOID CONFLICT WITH CONSTRUCTION OPERATIONS AND/OR DAMAGE TO THE UTILITY.
- THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED WITH PRECAST CONCRETE BOX CULVERT 6'x6'.
- THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL TREES WITHIN AND ADJACENT TO THE WORK ZONE FOR THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED WITH PRECAST CONCRETE BOX CULVERT 6'x6'.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- THE LIMITS OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL EXTEND VERTICALLY FROM THE BOTTOM OF THE BOX CULVERT DOWN TO ELEVATION 690.00 AND HORIZONTALLY TO VERTICAL LIMITS LOCATED 2 FEET OUTSIDE THE PERIMETER OF THE BOX CULVERT AND WINGWALL FOOTINGS. ONCE COARSE AGGREGATE BACKFILL (SPECIAL) IS REPLACED UP TO THE BOTTOM ELEVATION OF THE BOX CULVERT, STRUCTURE EXCAVATION WILL OCCUR IN THE NEW FILL FOR THE CUTOFF WALLS AND WINGWALLS. THE SECOND PLACEMENT OF STRUCTURE BACKFILL IN THESE AREAS WILL BE INCLUDED IN THE PAY QUANTITY FOR COARSE AGGREGATE BACKFILL (SPECIAL).

STATION 45+20 (PROJECT)
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. ROUTE 349 SEC. 16RS-6
LOADING HS20
STR. NO. 047-0300

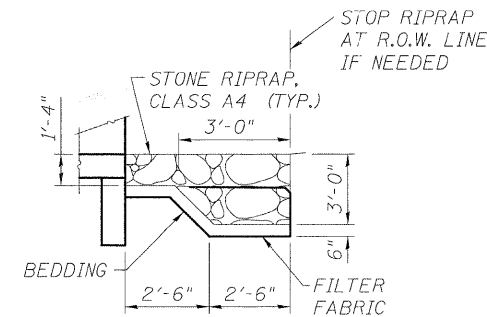
NAME PLATE
See Std. 515001



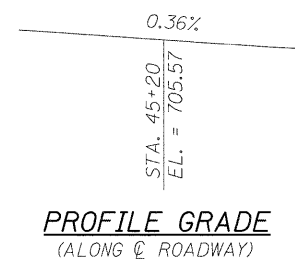
LOCATION SKETCH



**SECTION THROUGH
PRECAST BARREL**



SECTION THRU RIPRAP



**PROFILE GRADE
(ALONG ROADWAY)**

DESIGN LOADING

HS20-44 AND ALTERNATE MILITARY LOADING AND ALLOWANCE FOR 50 P.S.F. FUTURE WEARING SURFACE

DESIGN SPECIFICATIONS

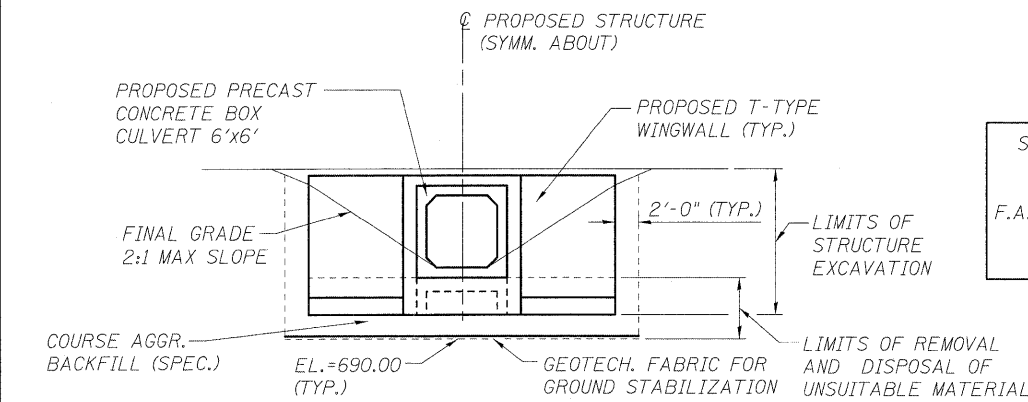
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002

DESIGN STRESSES

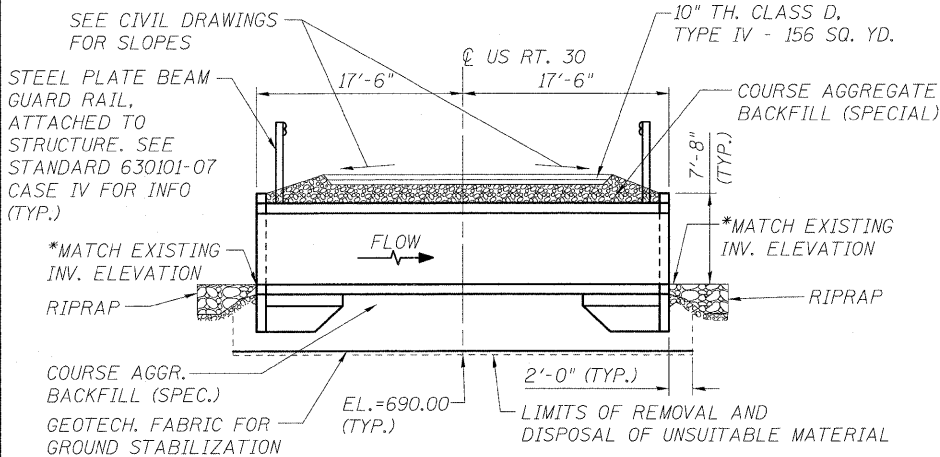
FIELD UNITS	PRECAST UNITS
$f'_c = 3,500$ psi	$f'_c = 5,000$ psi
$f_y = 60,000$ psi (REINFORCEMENT)	$f_y = 65,000$ psi (WELDED WIRE FABRIC)
	$f_y = 60,000$ psi (REINFORCEMENT)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Horizontal Bedrock Acceleration Coefficient (A) = 3.5%
Site Coefficient (S) = 1.0

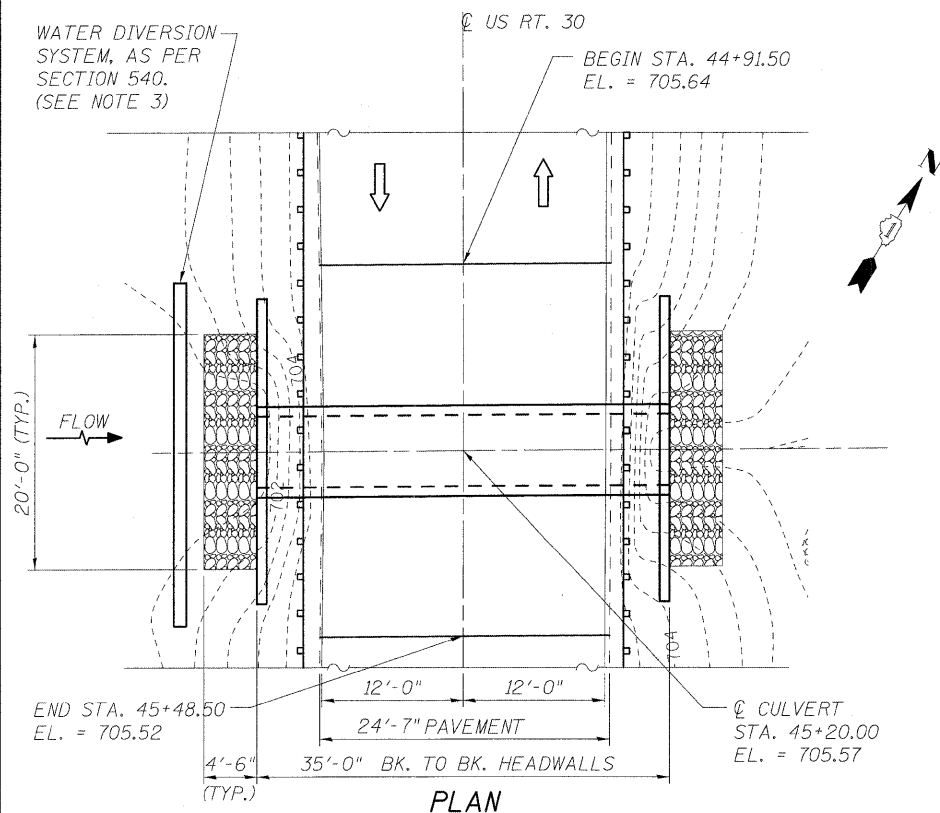


DOWNSTREAM END ELEVATION



**LONGITUDINAL SECTION
AT CULVERT, LOOKING NORTH**

* CONTRACTOR SHALL FIELD VERIFY EXISTING INVERT ELEVATION AT EACH END BEFORE REMOVING EXISTING STRUCTURE



PLAN

LOCO INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 517-9100

DESIGNED - WHE	REVISED - ---
DRAWN - ST	REVISED - ---
CHECKED - WHE	REVISED - ---
DATE - 01/19/2009	REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN, ELEVATION AND INDEX
US ROUTE 30 - SN 047-0300**

SCALE: 1/8" = 1'-0" SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	16RS-6	WILL	30	13
CONTRACT NO. 60A98				