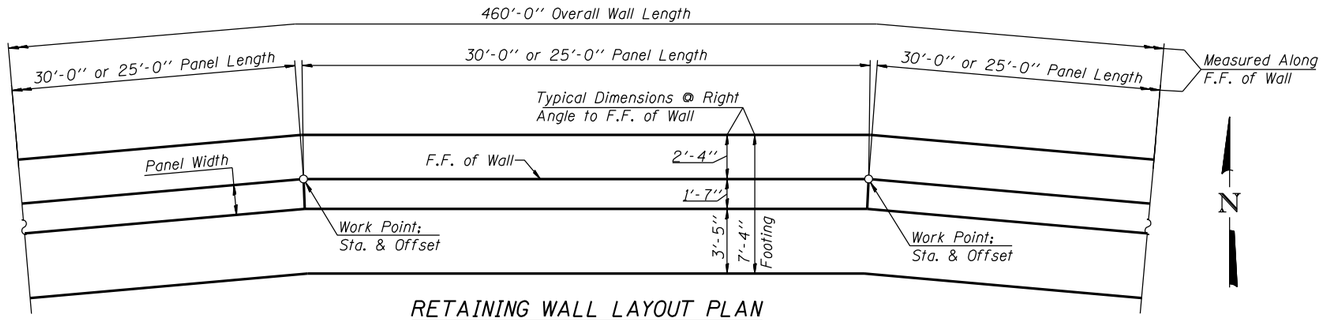
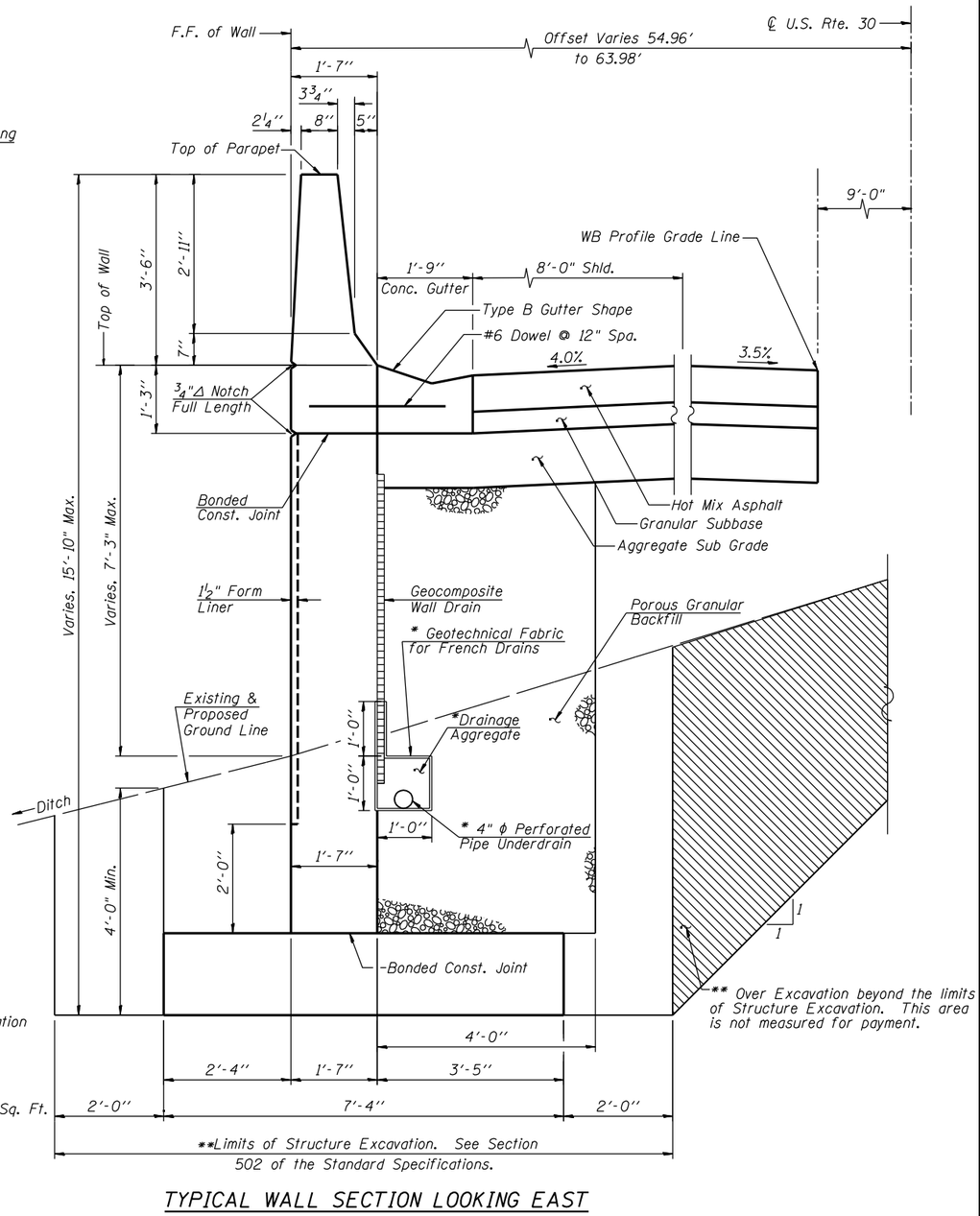
RETAINING WALL LAYOUT DIMENSIONS

Work Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Station	1252+00.00	1252+29.43	1252+58.84	1252+83.36	1253+12.77	1253+42.17	1253+66.67	1253+96.06	1254+25.44	1254+54.82	1254+84.20	1255+08.67	1255+38.03	1255+67.39	1255+91.85	1256+21.20	1256+50.54
Offset (Left)	54.96′	55.55′	56.14′	56.64′	57.23′	57.82′	58.31′	58.90′	59.48′	60.07′	60.66′	61.15′	61.73′	62.32′	62.81′	63.39′	63.98′

Panel Number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Panel Length		30′-0"	30′-0"	25′-0"	30′-0"	30′-0"	25′-0"	30′-0"	30′-0"	30′-0"	30′-0"	25′-0"	30′-0"	30′-0"	25′-0"	30′-0"	30′-0"	



RETAINING WALL LAYOUT PLAN



TYPICAL WALL SECTION LOOKING EAST

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Backfill	Cu. Yd.	500
Structure Excavation	Cu. Yd.	1,075
Concrete Structures	Cu. Yd.	416.3
Concrete Superstructure	Cu. Yd.	89.7
Form Liner Textured Surface	Sq. Ft.	2,928
Protective Coat	Sq. Yd.	286
Reinforcement Bars	Pound	14,460
Reinforcement Bars, Epoxy Coated	Pound	37,050
Geocomposite Wall Drain	Sq. Yd.	194
Pipe Underdrains for Structures 4"	Foot	460

INDEX OF SHEETS

DESIGN STRESSES

FIELD UNITS

f′c = 3,500 psi
fy = 60,000 psi (Reinforcement)

GENERAL NOTES

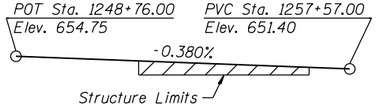
1. Reinforcement bars designated (E) shall be epoxy coated.

ABBREVIATIONS

C.J.	Construction Joint
ea.	Each
Typ.	Typical
Cl.	Clear
Cts.	Centers
F.F.	Front Face
B.F.	Back Face
E.F.	Each Face
G.L.	Ground Line
P.J.F.	Preformed Joint Filler

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition



PROFILE GRADE, EB OR WB U.S. RTE. 30

CURVE DATA

U.S. Rte. 30 (Curve 30-1)
P.I. Sta. = 1253+78.51
Δ = 54°56′33"
D = 2°00′15"
R = 2,859.00′
T = 1,486.48′
L = 2,741.57′
E = 363.34′
e = 3.50%
T.R. = 48.0′
S.E. Run = 84.0′
P.C. Sta. = 1238+92.03
P.T. Sta. = 1266+33.60

NOTES

1. * Items are included in the cost of Pipe Underdrains for Structures 4".
2. ** Backfill remainder of Structure Excavation and over excavation with same material specified for roadway embankment.
3. The maximum applied service (trapezoidial) bearing pressure, Qmax. = 3.01 kips per Sq. Ft.

GRÄEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631; (773) 399-0112

USER NAME =		DESIGNED - J.J.G. 7/24/2012	REVISED -	
		CHECKED - J.A.Z. 7/24/2012	REVISED -	
PLOT SCALE =		DRAWN - E.E.J. 7/24/2012	REVISED -	
PLOT DATE =		CHECKED - J.J.G. 7/24/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA & DETAILS
STRUCTURE NUMBER 045-W014
SHEET NO. SA2 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	339
STA. 1252+00.00		CONTRACT NO. 60133		
ILLINOIS FED. AID PROJECT				

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