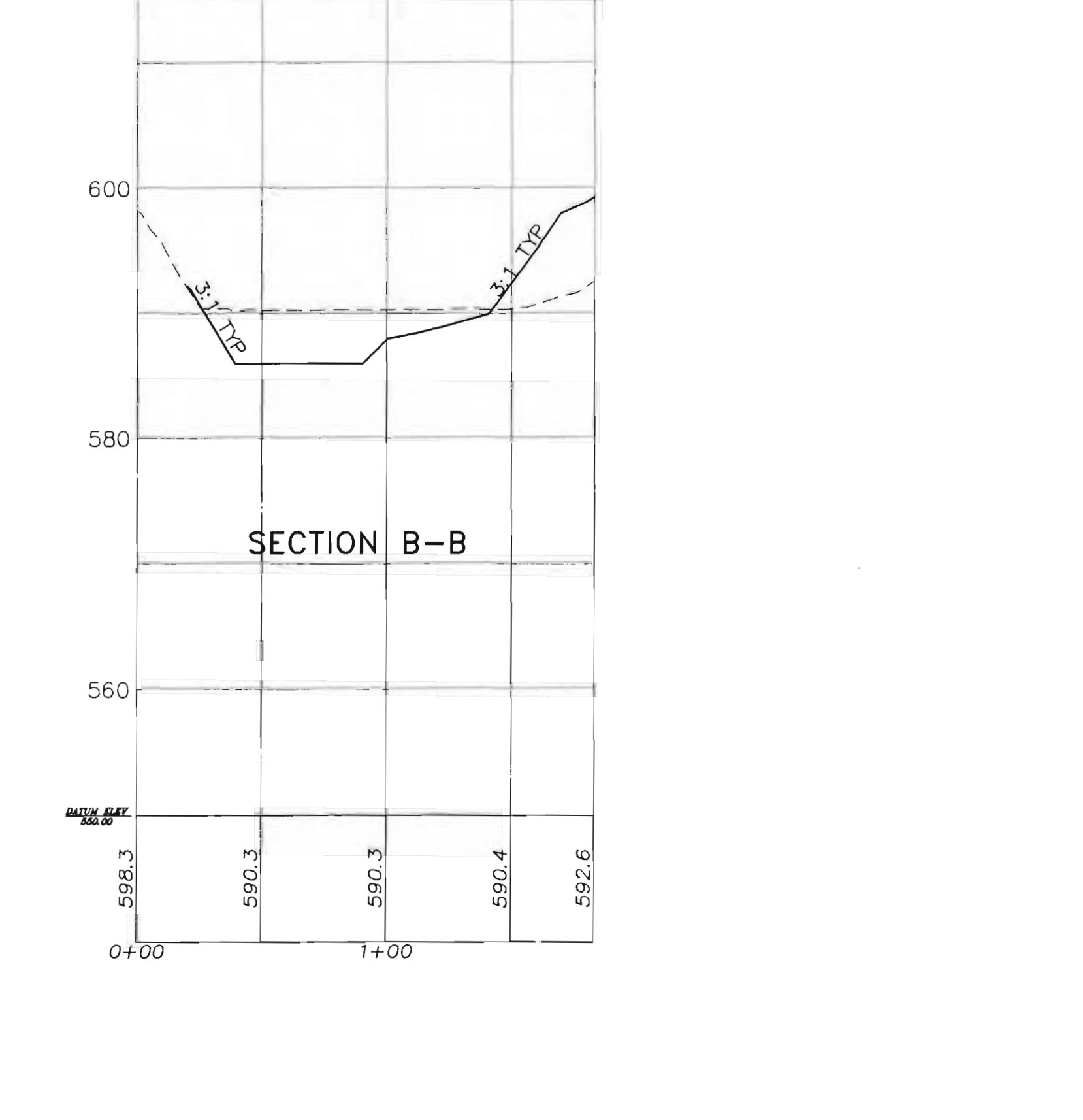
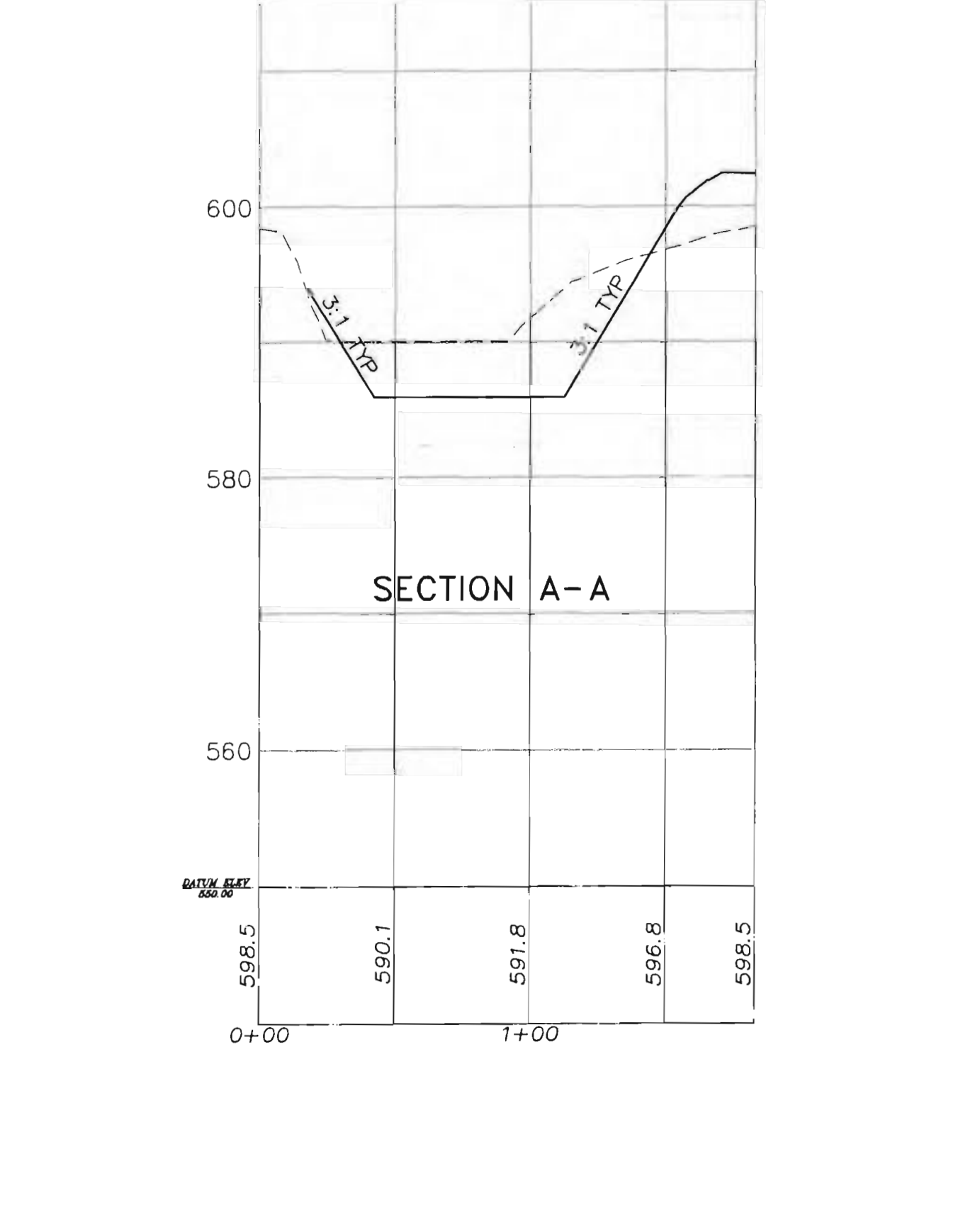
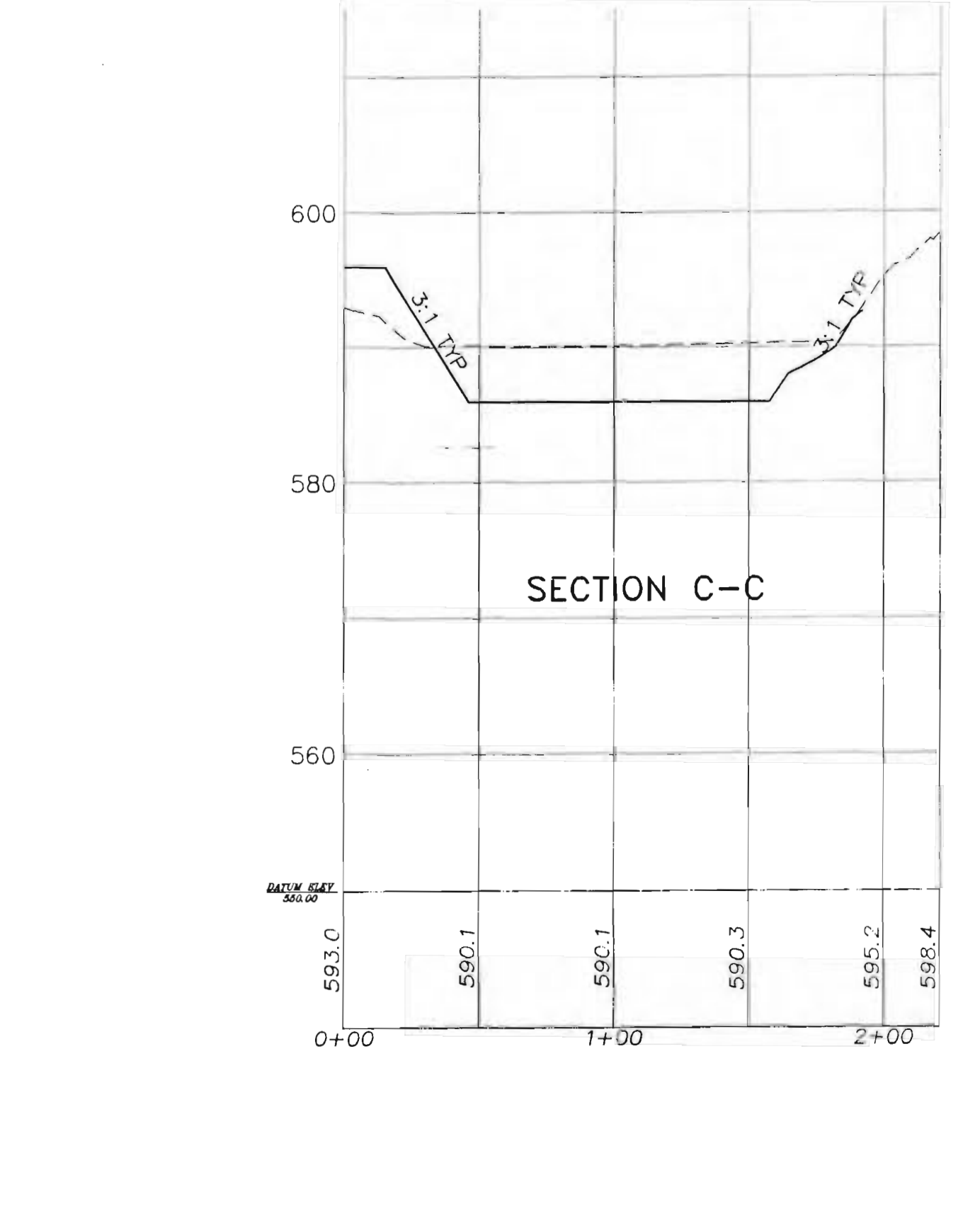
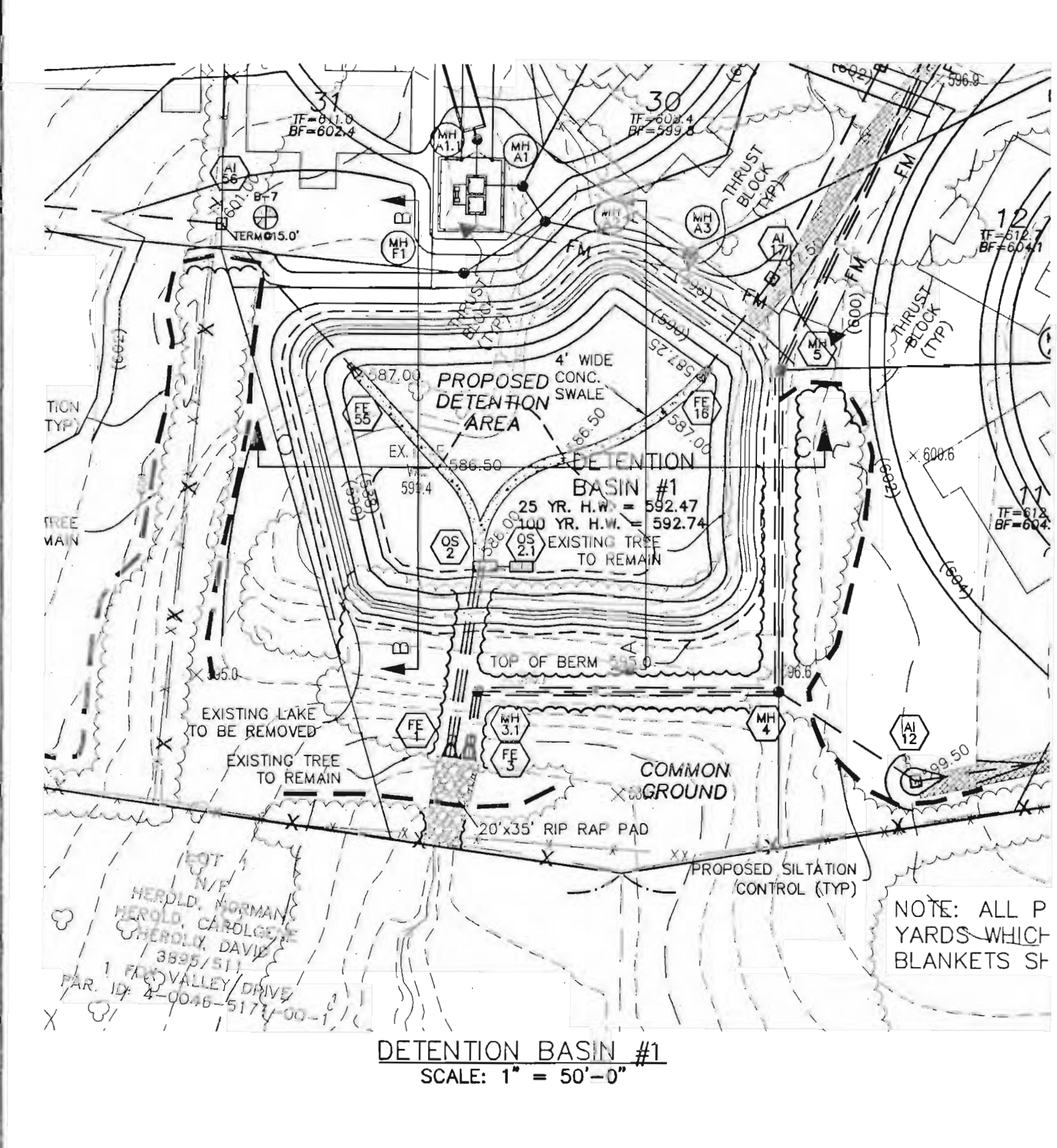


15 YEAR, 20 MIN. HYDRAULICS																				100YEAR, 20 MIN. HYDRAULICS																															
Job Name: POINTE LDMA										Job Name: POINTE LDMA										Job Name: POINTE LDMA																															
Prepared by: JM										Prepared by: JM										Prepared by: JM																															
Checked by: _____										Checked by: _____										Checked by: _____																															
Date: 10/9/06										Date: 10/9/06										Date: 10/9/06																															
Revised: 12/28/06										Revised: 12/28/06										Revised: 12/28/06																															
Upper Str. Type	Struct. Number	Len. In	Q In c.f.s.	Total Q c.f.s.	Pipe Size In.	Grade	V In Ft.	Wh In Ft.	Q x Wh	Hyd. Grade	Flow Line Elevation	Top of Structure Elevation	Free Board	Hydraulic Grade Line	Frict. Loss	Curve Loss	Junc. Loss	Entr. Loss	Turn Loss	Capacity	Normal Depth	Upper Str. Type	Struct. Number	Len. In	Q In c.f.s.	Total Q c.f.s.	Pipe Size In.	Grade	V In Ft.	Wh In Ft.	Q x Wh	Hyd. Grade	Flow Line Elevation	Top of Structure Elevation	Free Board	Hydraulic Grade Line	Frict. Loss	Curve Loss	Junc. Loss	Entr. Loss	Turn Loss	Capacity	Normal Depth								
T	69	63	116.77	1.76	1.76	12	1.00X	2.24	0.08	0.14	0.24X	614.38	613.21	618.30	620.80	3.20	615.10	614.82	0.28	0.08	90	0.22	3.57	0.49	0.49	T	69	63	116.77	2.37	2.37	12	1.00X	3.02	0.14	0.34	0.44X	614.38	613.21	618.30	620.80	2.69	615.61	615.09	0.52	0.14	90	0.40	3.57	0.66	0.59

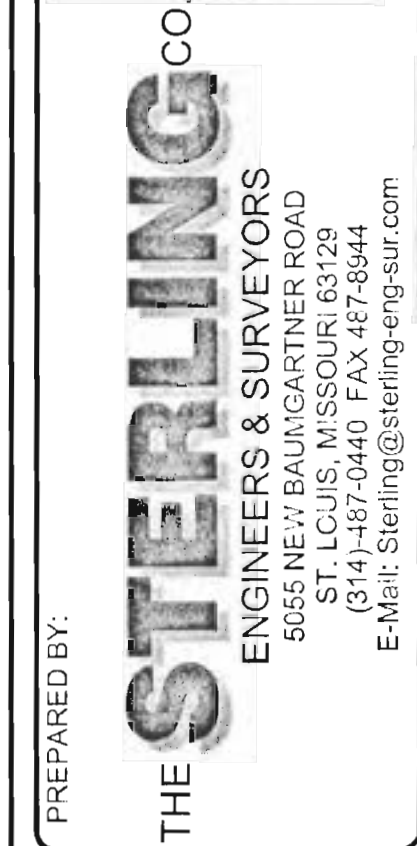
 NOTE: AI=Area Inlet, MH=Manhole, T=Terminal Structure, CI=Curb Inlet, DCI=Double Curb Inlet, SCI=Skewed Curb Inlet, TP=Tangent Point, EP=End of Pipe, DS=Outfall Structure
 n=0.013 For RCP, n=0.024 For CMP. For Drainage Areas, P.I. & Bypass, See Drainage Area Map.

 NOTE: AI=Area Inlet, MH=Manhole, T=Terminal Structure, CI=Curb Inlet, DCI=Double Curb Inlet, SCI=Skewed Curb Inlet, TP=Tangent Point, EP=End of Pipe, DS=Outfall Structure
 n=0.013 For RCP, n=0.024 For CMP. For Drainage Areas, P.I. & Bypass, See Drainage Area Map.



ISSUE	REVISION	DATE	BY	DESCRIPTION
1	10-17-06	10/17/06	JM	10-17-06 FIRST SUBMITTAL
2	12-11-06	12/11/06	JM	12-11-06 REVISED PER DCSD & PWS&D COMMENTS
3	12-28-06	12/28/06	JM	12-28-06 REVISED PER ST. CHARLES CO. COMMENTS
4	01-25-07	01/25/07	JM	01-25-07 REV. PER ST. CHARLES CO. & OFALLOM
5	02-09-07	02/09/07	JM	02-09-07 REVISED PER DCSD & PWS&D COMMENTS
6	06-29-07	06/29/07	JM	06-29-07 REVISED PER DEVELOPER COMMENTS
7	07-30-07	07/30/07	JM	07-30-07 REV. PER ST. CH. CO. DCSD & PWS&D COMM.

PREPARED FOR:
CROSS DEVELOPMENT OF MISSOURI INC.
 1609 PROSPECT VILLAGE DR.
 LAKE ST. LOUIS, MO. 63367
 314-713-4054



PREPARED BY:
STERLING CO.
 ENGINEERS & SURVEYORS
 5656 NEW BALMARTER ROAD
 ST. LOUIS, MISSOURI 63120
 (314) 487-0440 FAX 487-8944
 E-Mail: Sterling@sterling-eng-sur.com

DRAWN: _____
 DESIGNED: _____
 CHECKED: _____

PROJECT: **THE ENCLAVE AT SOMMERS POINTE**
 SHEET TITLE: **HYDRAULICS/BASIN SECTIONS**

NO: **07 06 123**
 M.S.D. SHEET
 P# **8.1**
 OF