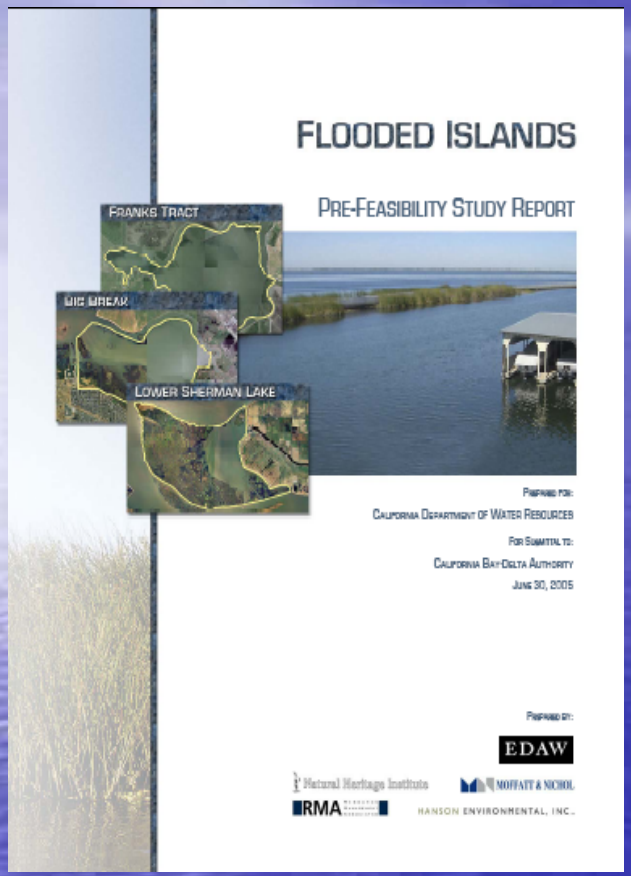
Status of the Franks Tract Project

January 19, 2006



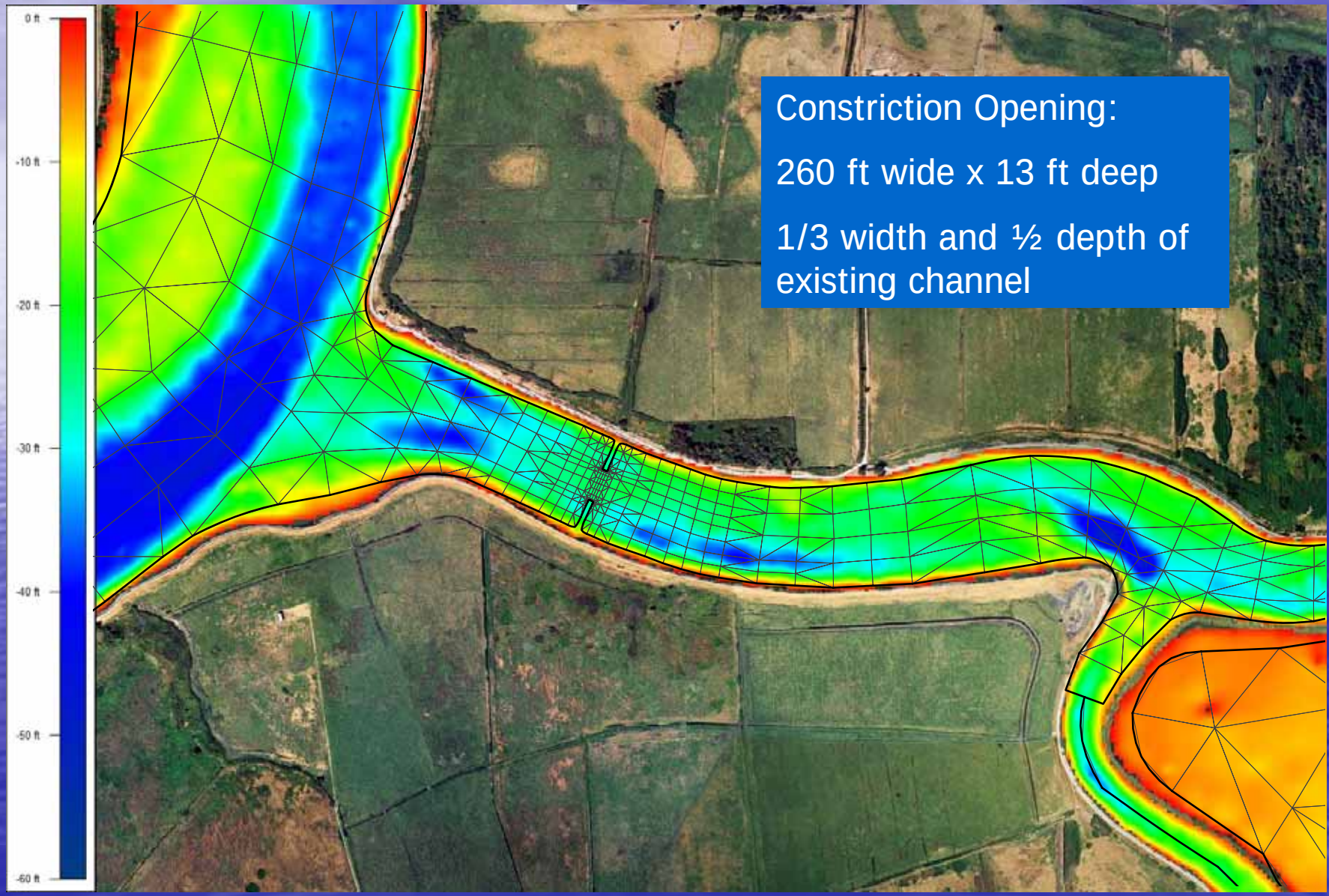
- Completed Flooded Island Pre-feasibility report, June 2005

- Currently, responding to major comments on the study

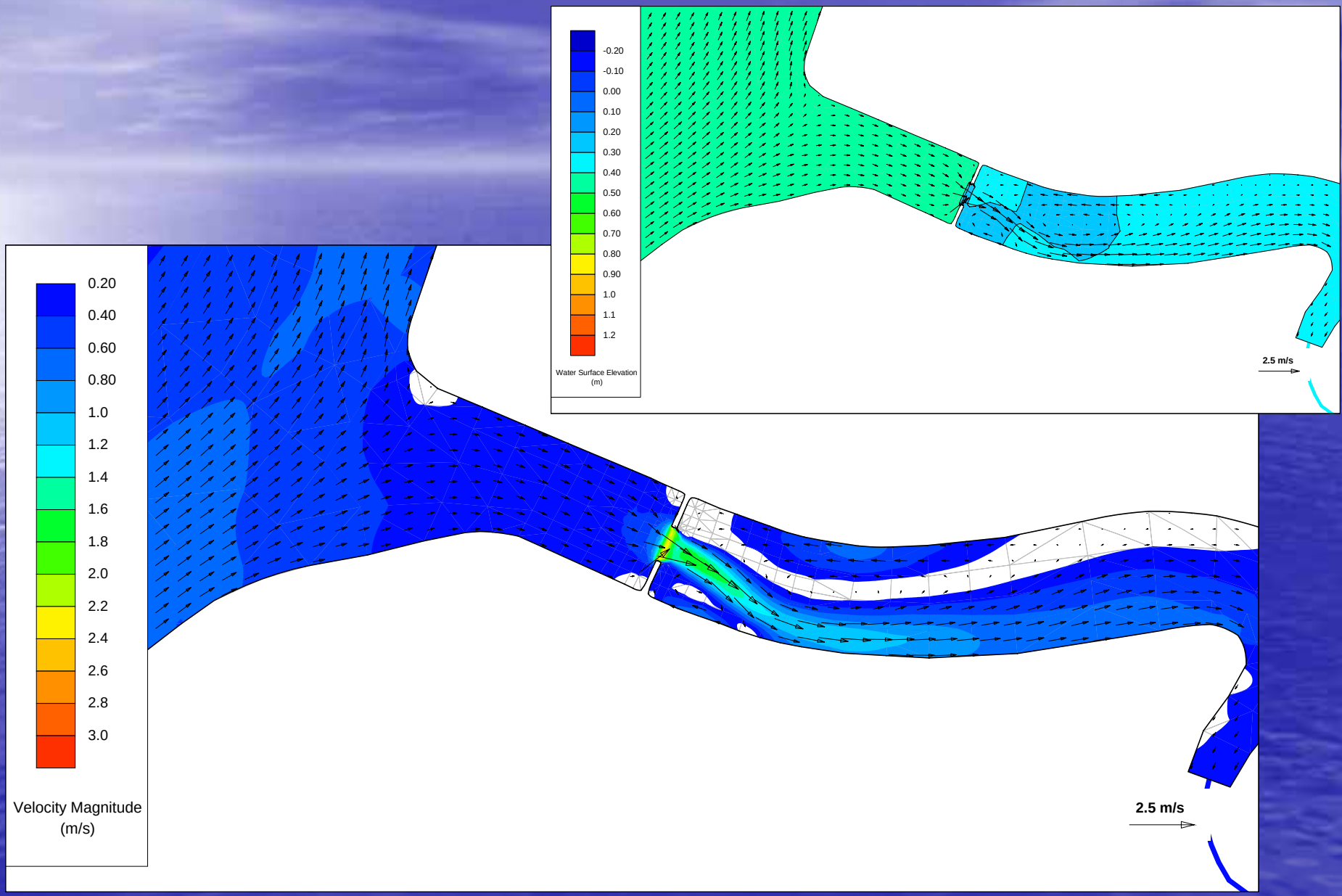
- Currently, evaluating the potential for a scaled-down pilot project at Franks Tract

West False River Alternative 1

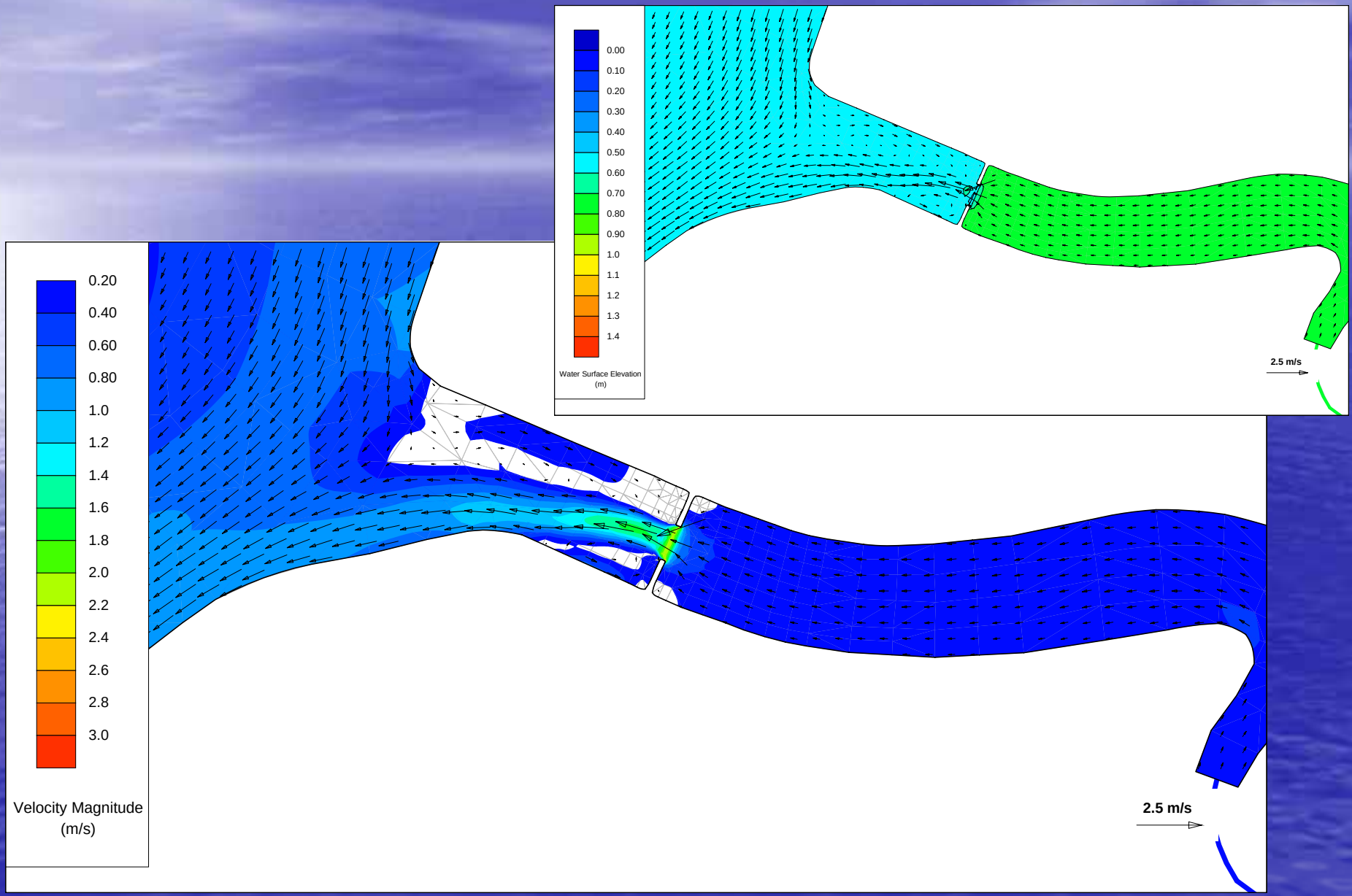
Constriction Geometry as Modeled



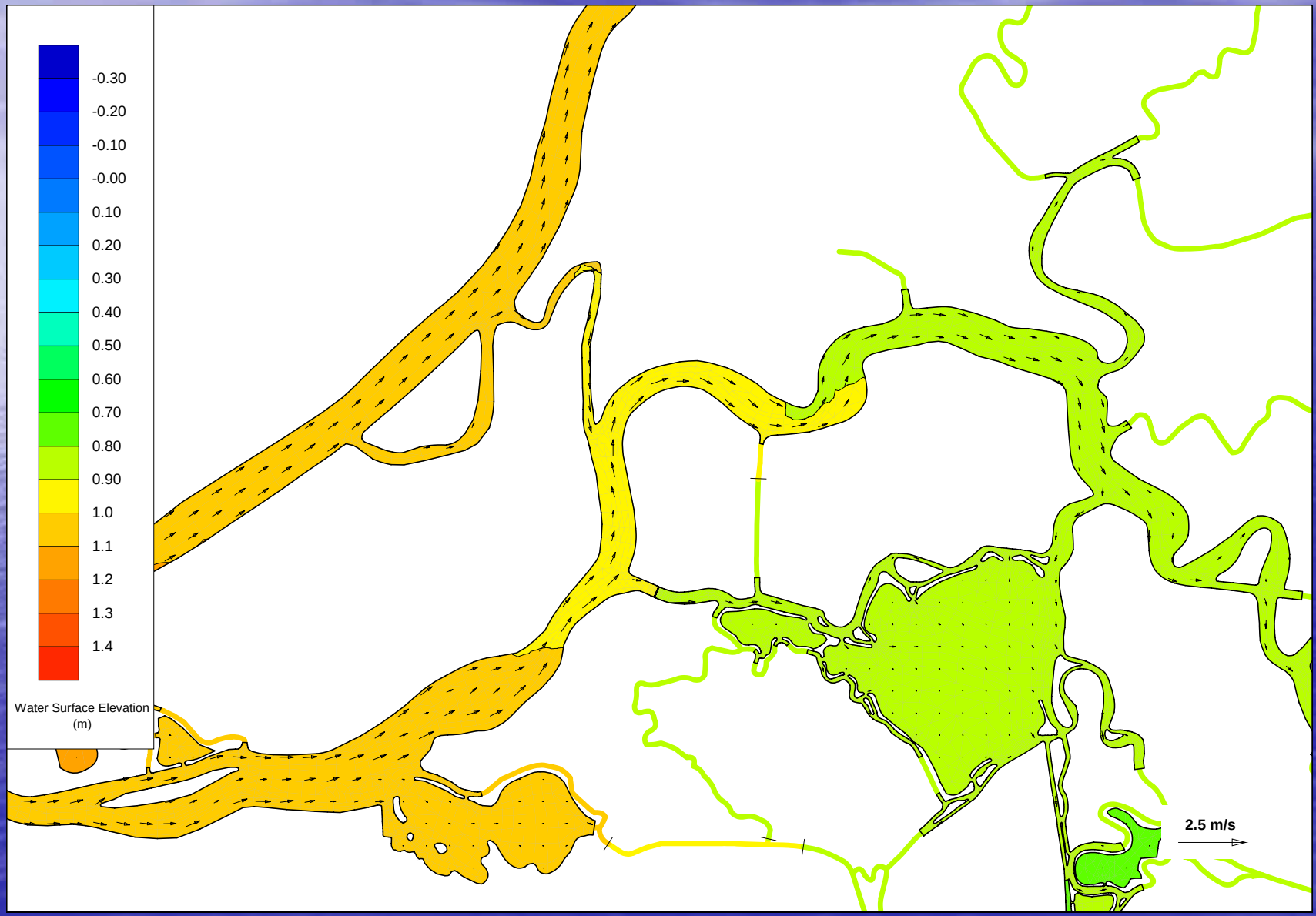
Velocity Field and Head Loss



Velocity Field and Head Loss



Regional Impact on Stage



Eastside Alternative 2

Eastside Alternative 3

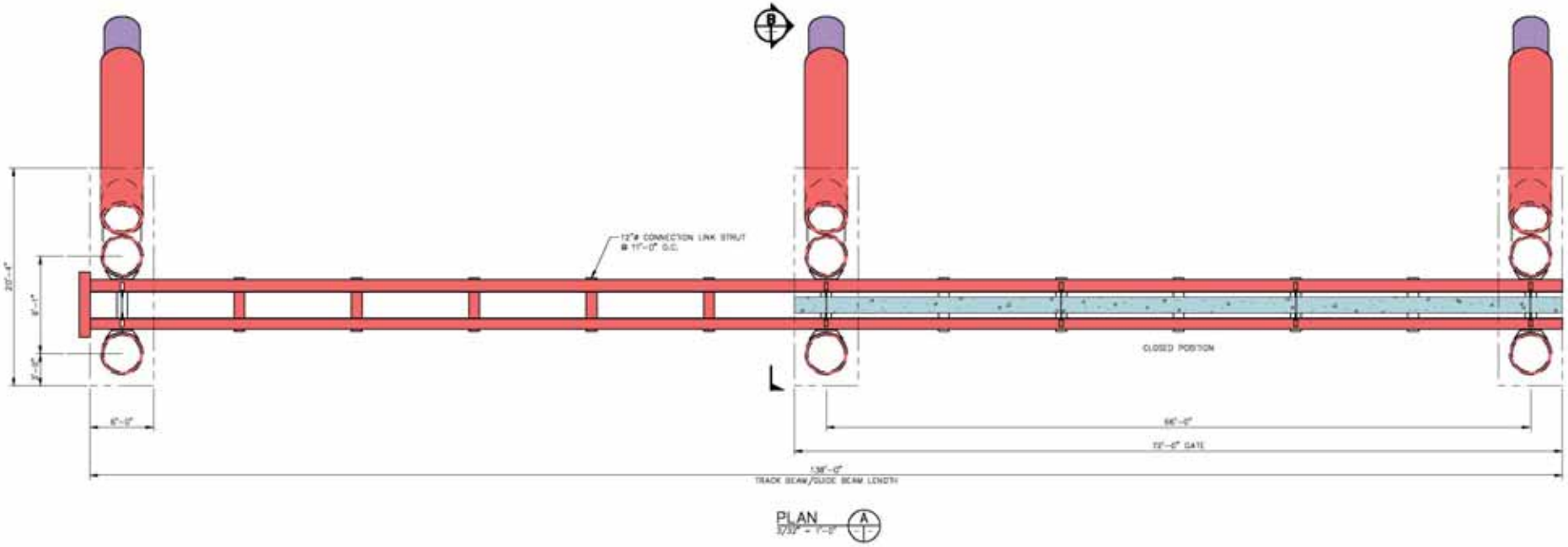
	Monthly Averaged EC (umhos/cm)											
	October 2002											
	SWP		CVP		CCWD Old Riv		CCWD Rock S.		Jersey Pt		RMID023	
Alternative	value	change	value	change	value	change	value	change	value	change	value	change
Base	555		557		595		706		1326		456	
West False River Alt 1	509	8%	521	6%	526	12%	608	14%	1217	8%	461	-1%
Eastside Alt 2	543	2%	547	2%	580	2%	685	3%	1334	-1%	450	1%
Eastside Alt 3	444	20%	470	16%	431	28%	477	33%	1265	5%	461	-1%

	Monthly Averaged EC (umhos/cm)											
	October 2002											
	SWP		CVP		CCWD Old Riv		CCWD Rock S.		Jersey Pt		RMID023	
Alternative	value	%reduc.	value	%reduc.	value	%reduc.	value	%reduc.	value	%reduc.	value	%reduc.
Base	555		557		595		706		1325		457	
Frank's Tract Closed	511	8	522	6	535	10	624	12	1269	4	448	2
East Open	477	14	496	11	480	19	541	23	1237	7	459	-1
Cox	497	10	515	7	488	18	528	25	1347	-2	508	-11
Tidal Marsh	577	-4	575	-3	624	-5	743	-5	1475	-11	465	-2
FRG	532	4	544	2	535	10	579	18	850	36	523	-14
FRG2	483	13	503	10	479	19	528	25	954	28	483	-6
False and Piper Gates	537	3	550	1	538	10	580	18	854	36	532	-17
Nozzle Gate	546	2	556	0	557	6	627	11	1206	9	513	-12
NG & Piper Gate	545	2	558	0	545	8	589	17	919	31	540	-18
RWD	444	20	471	15	432	27	478	32	1263	5	461	-1
North Levee & LFT Closed	520	6	530	5	542	9	631	11	1312	1	461	-1

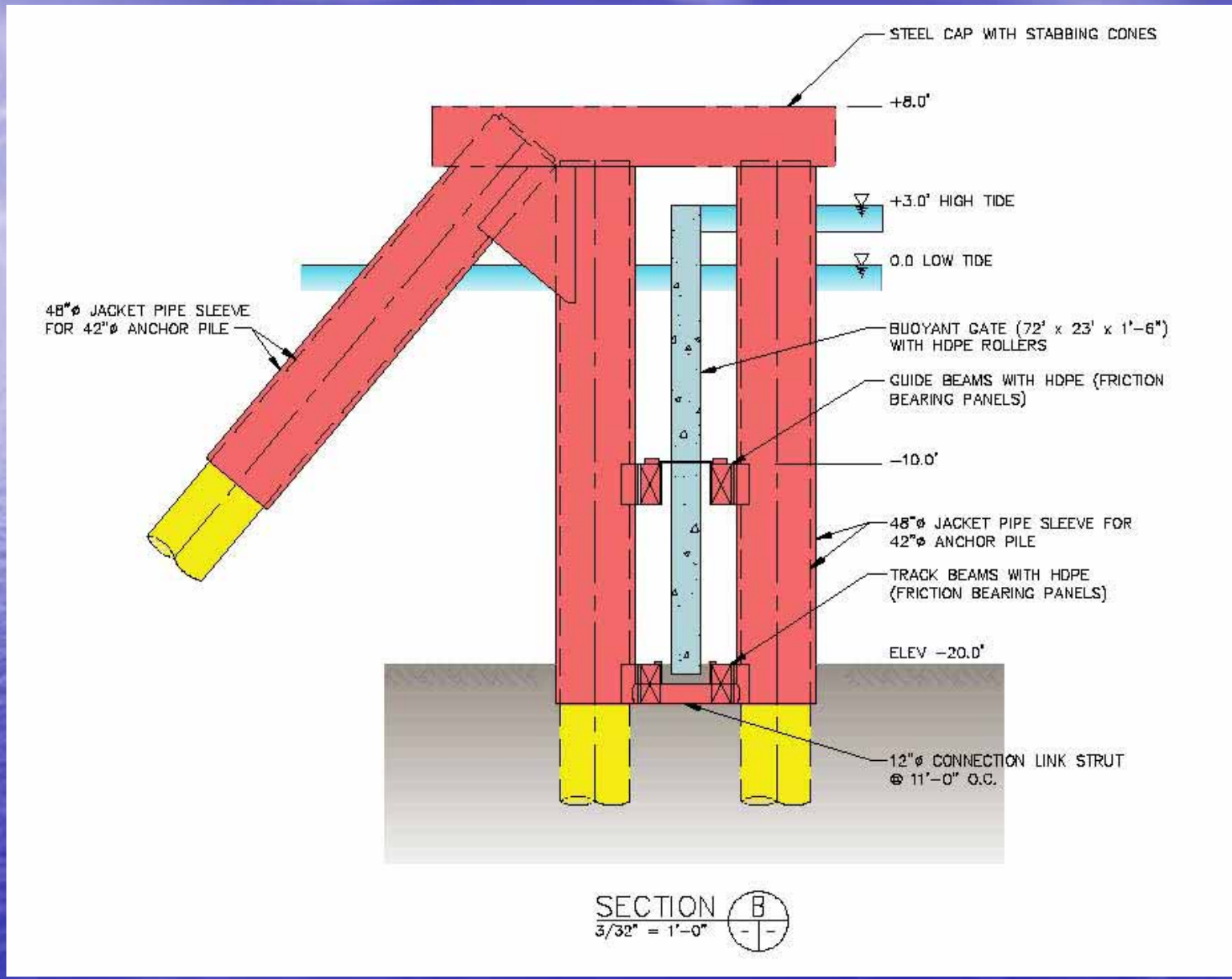
Observations

- West False River Alternative 1
  - Salinity improvement is function of head loss
  - Head loss is generated by accelerating flow through constriction and dissipating energy in eddies
  - High velocities may be unavoidable
- Eastside Alternative 2
  - Restoring eastside levee without closing Sand Mound Slough and the east end of False River has very little impact on salinity
- Eastside Alternative 3
  - Entirely blocking the east side of Franks Tract without operable gates will very likely create unacceptable residence times

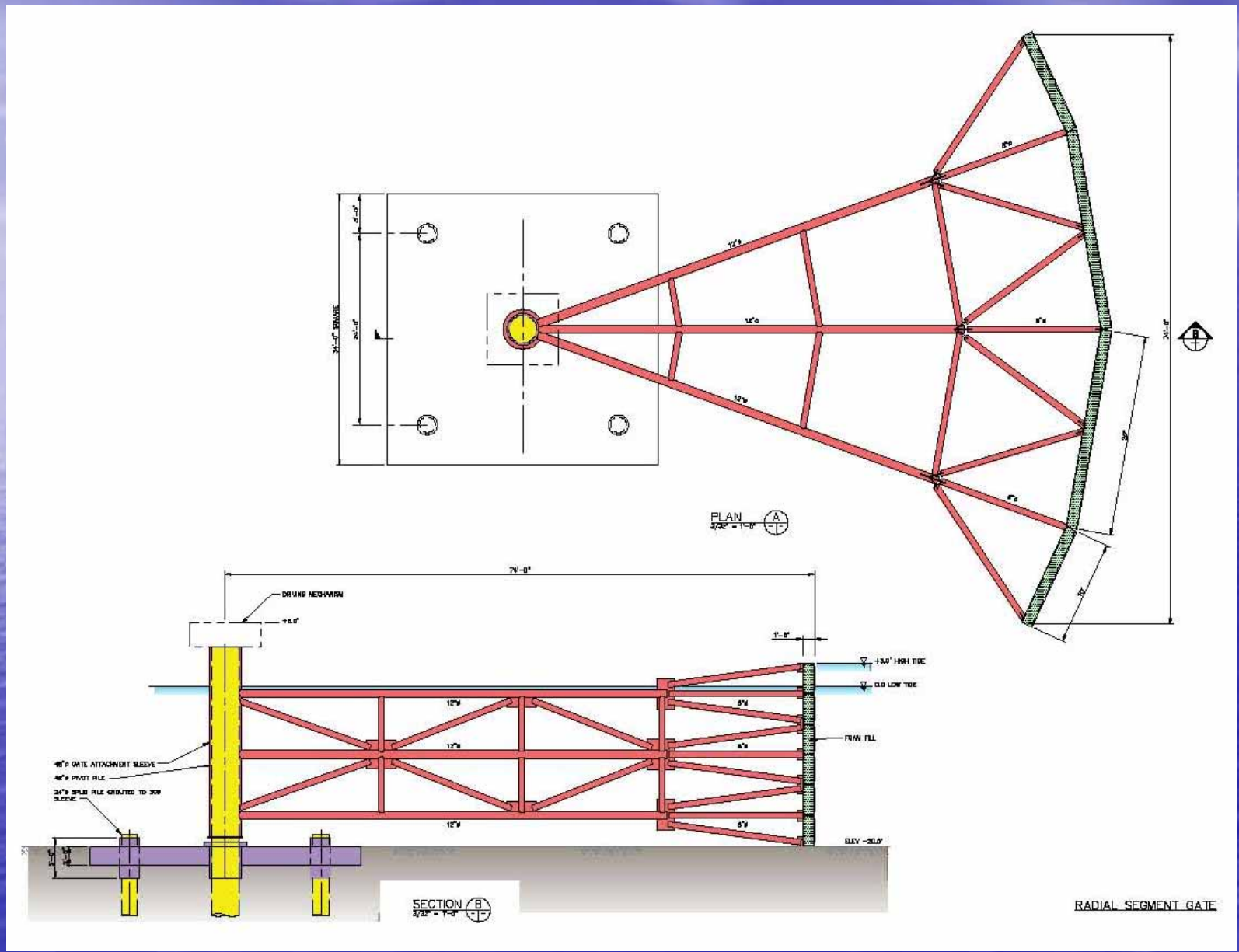
Gate / Barrier Concepts – Sliding



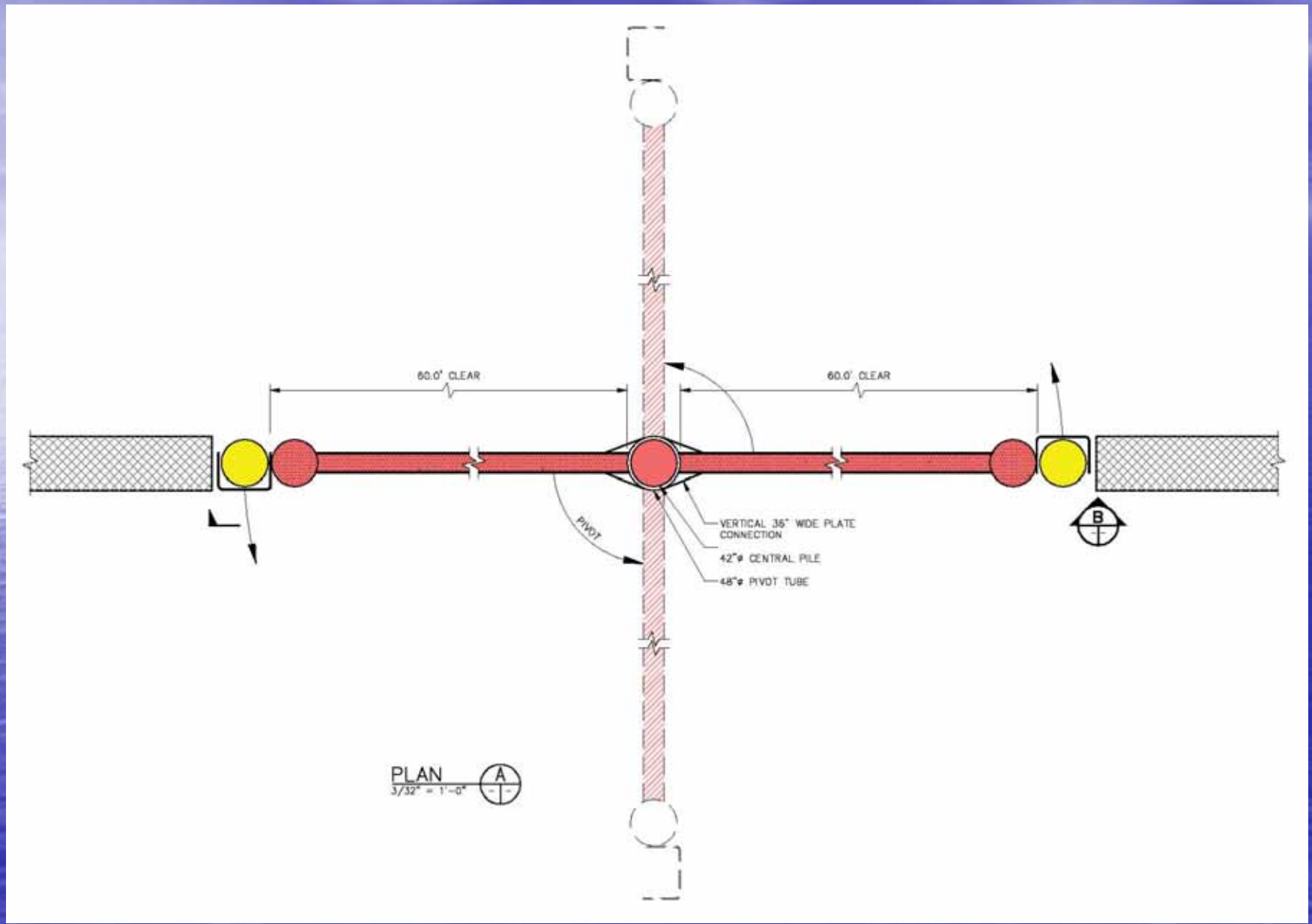
Gate / Barrier Concepts – Sliding



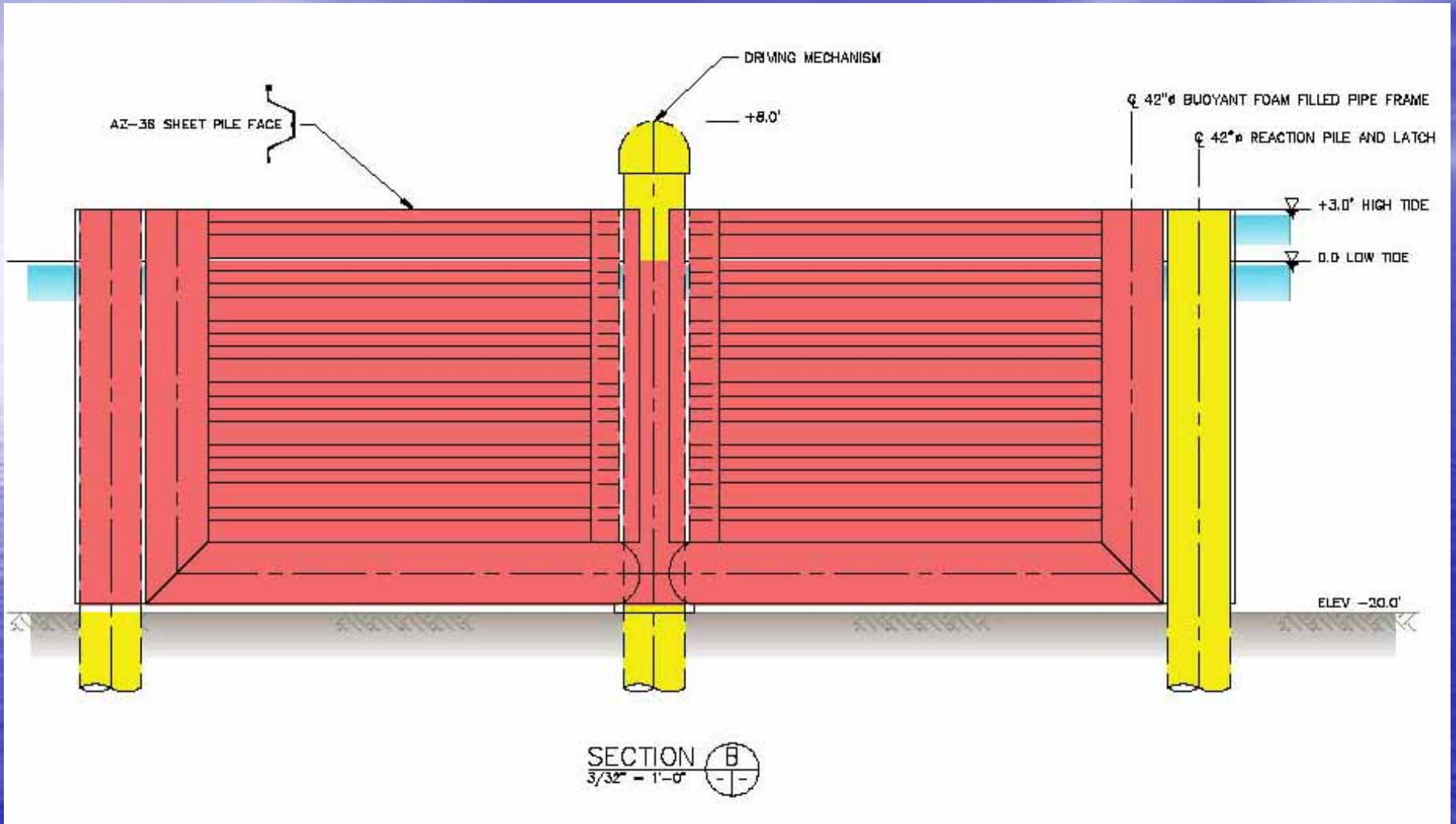
Gate / Barrier Concepts – Radial Segment



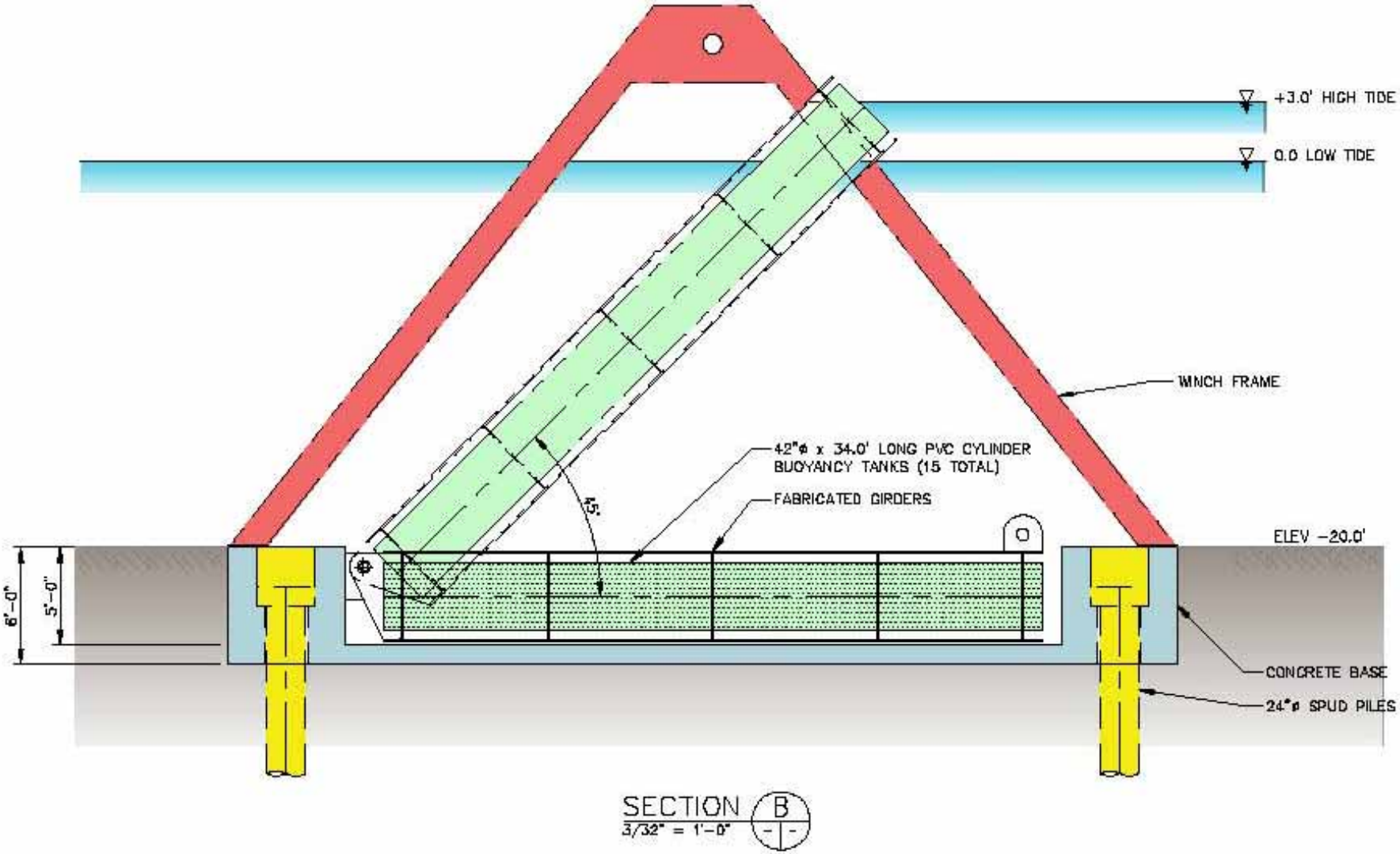
Gate / Barrier Concepts – Butterfly



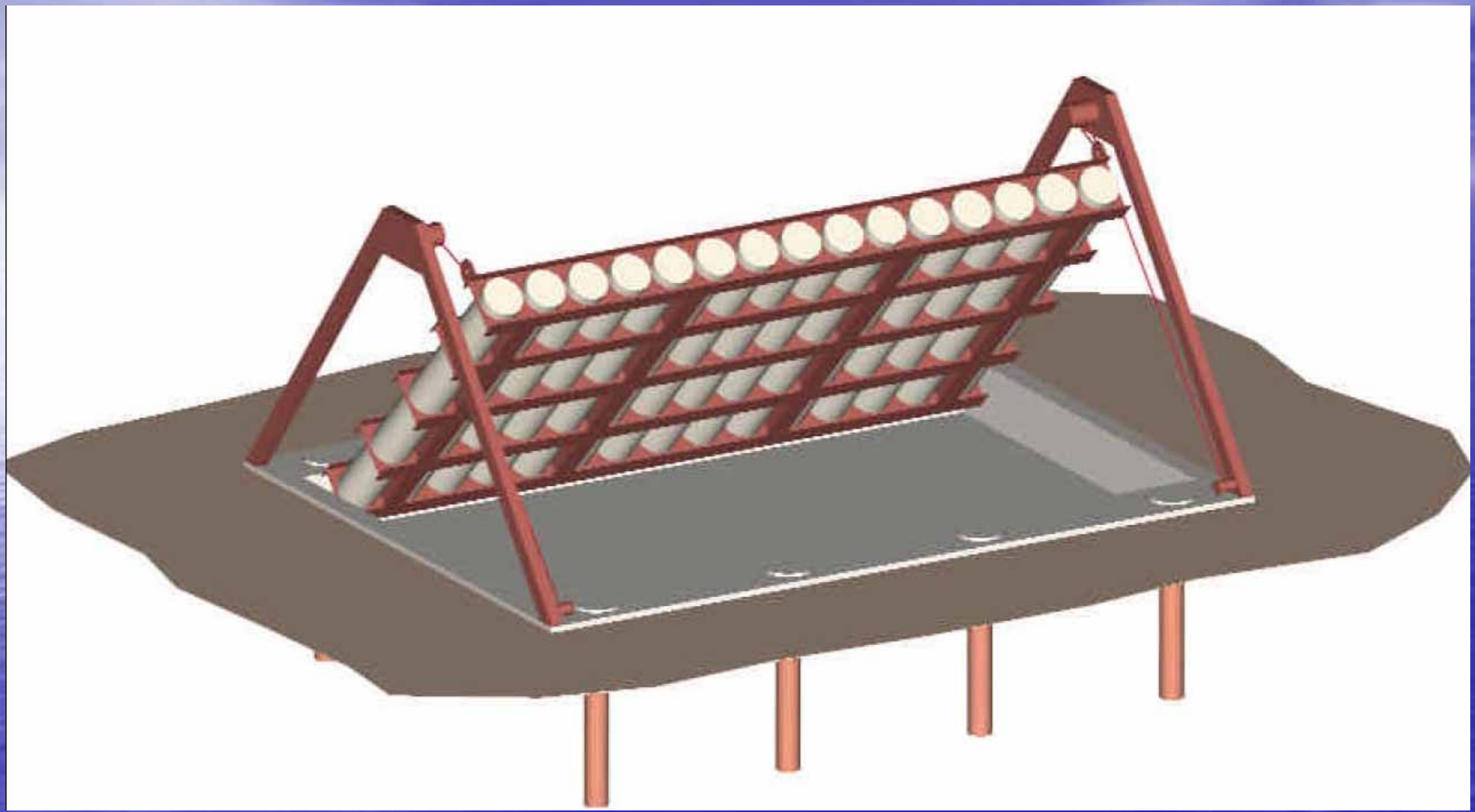
Gate / Barrier Concepts – Butterfly



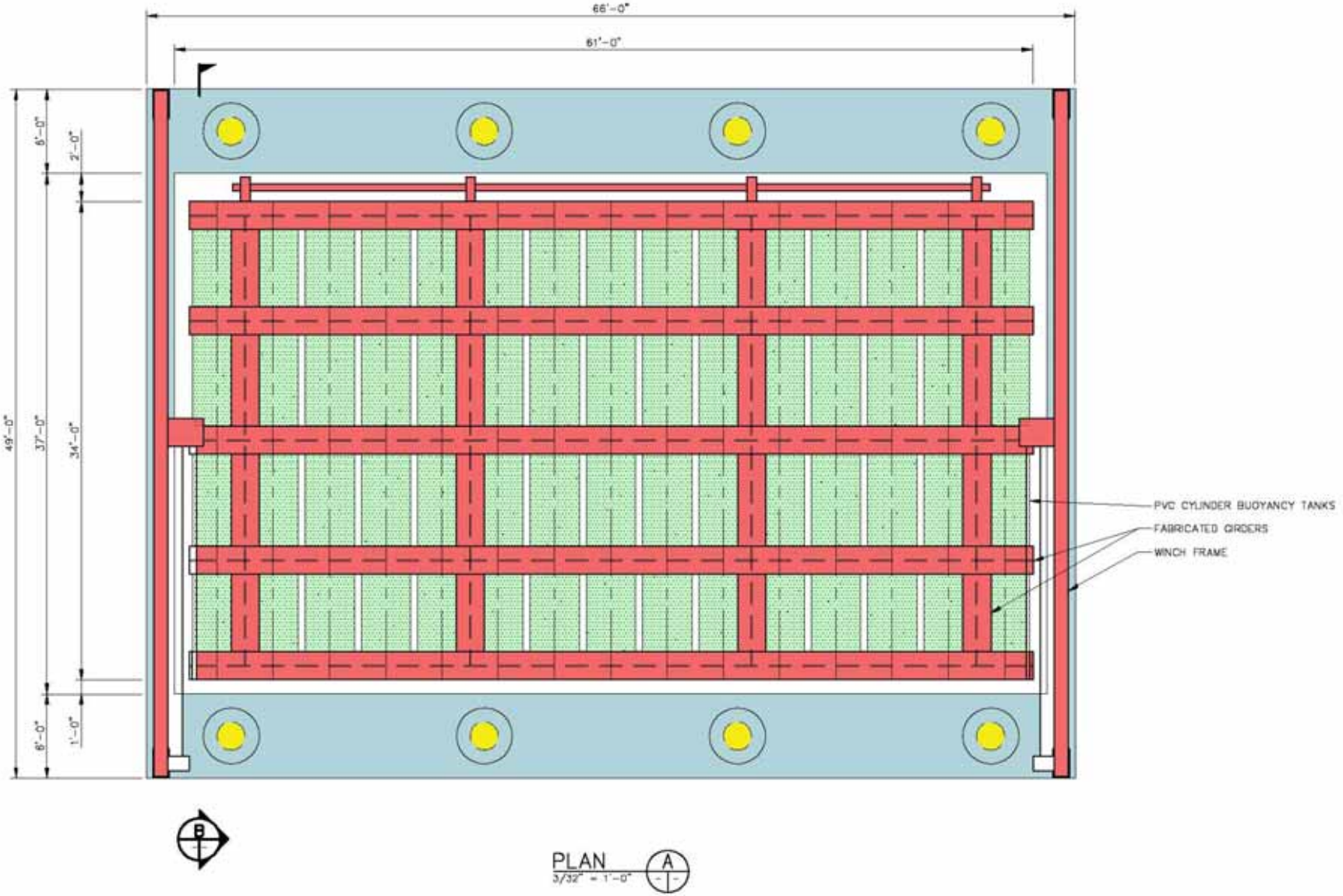
Gate / Barrier Concepts – Flap



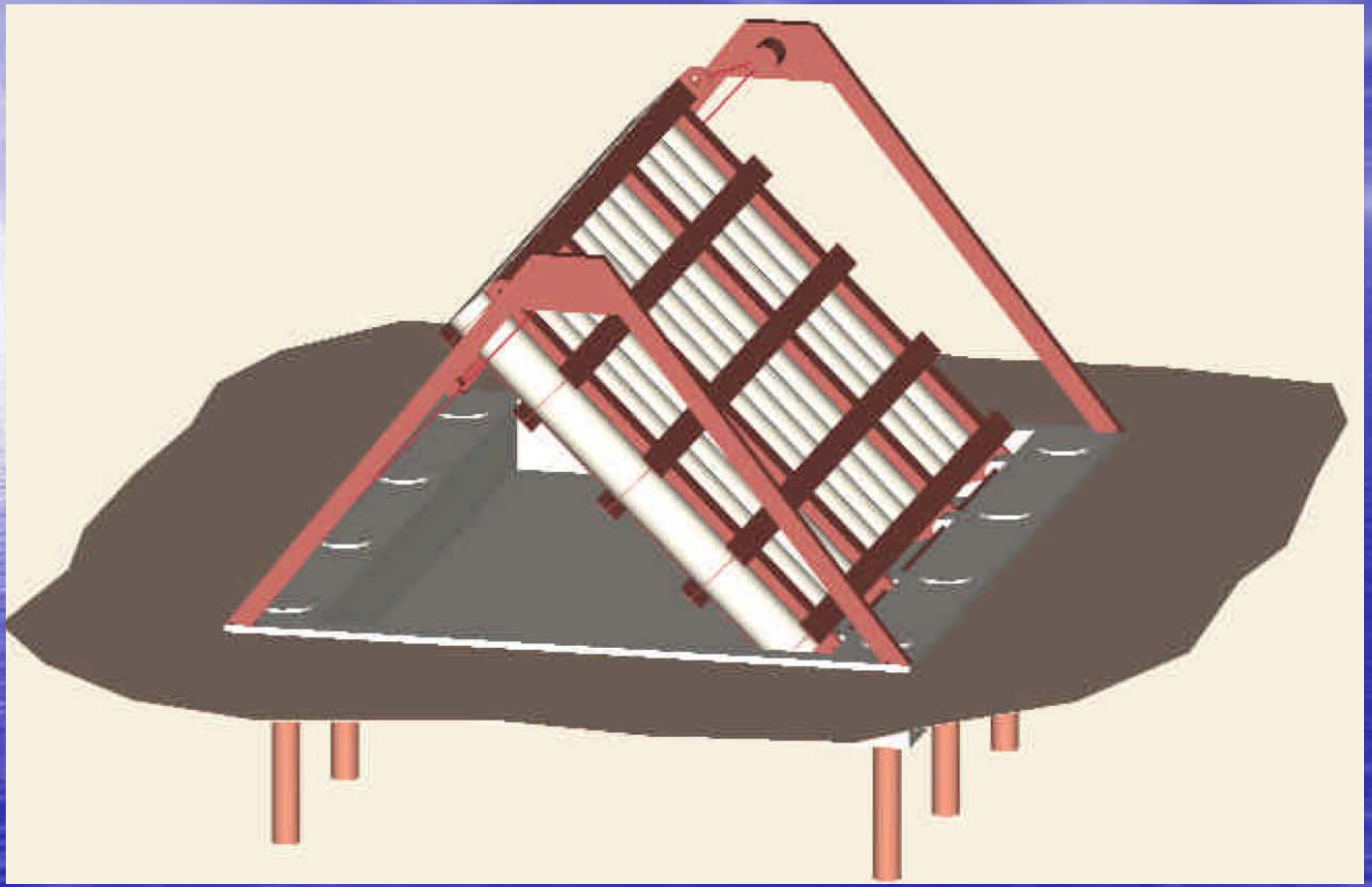
Gate / Barrier Concepts – Flap



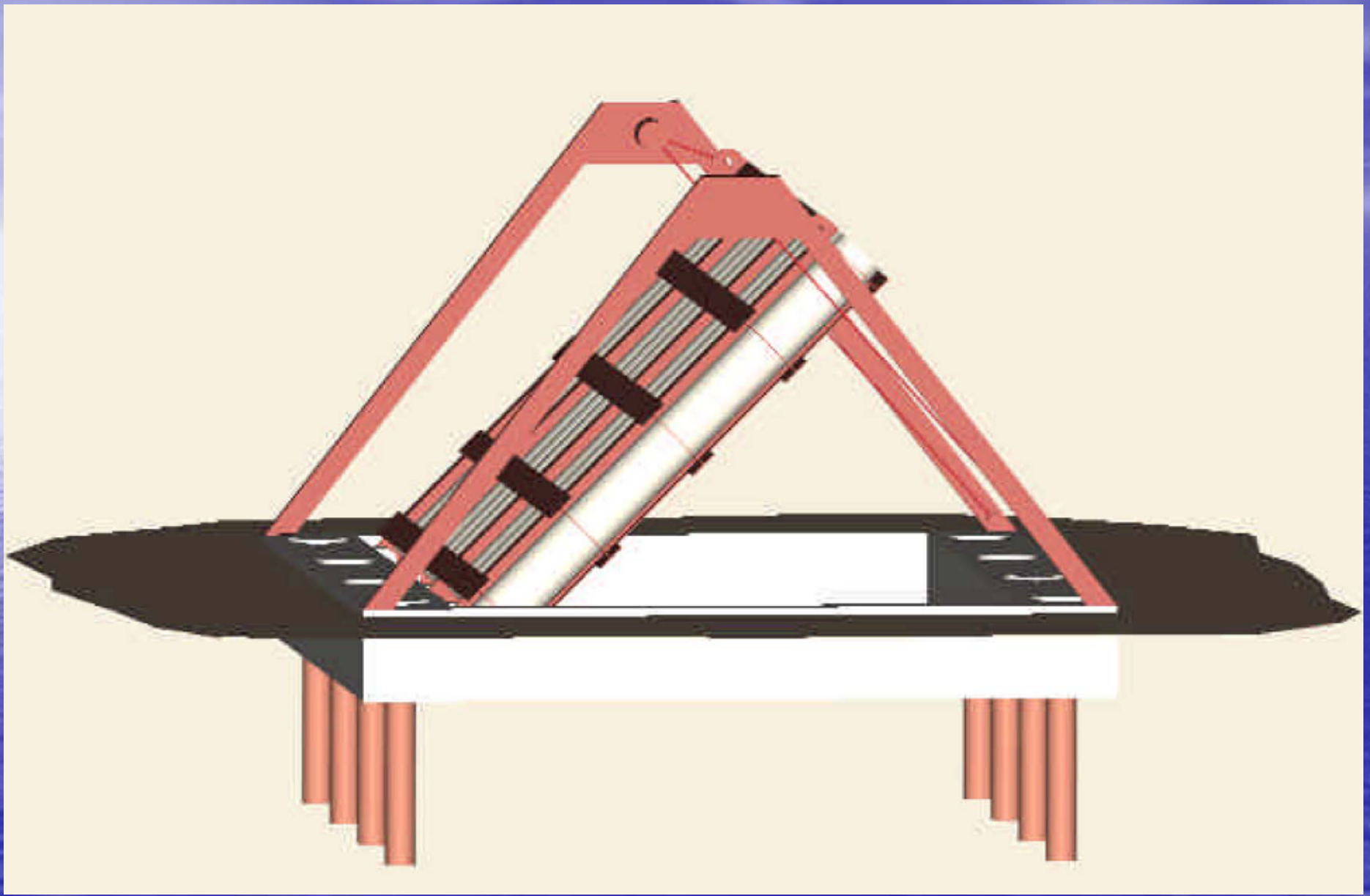
Gate / Barrier Concepts – Flap



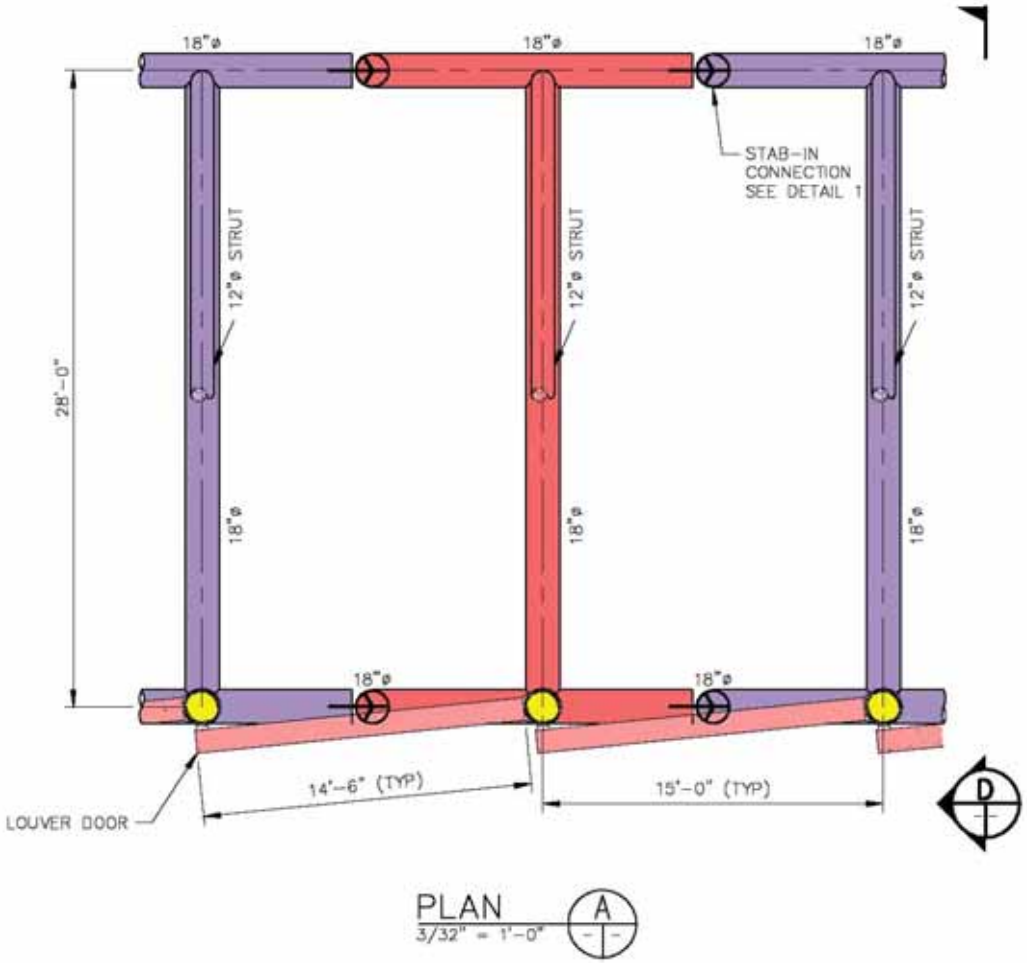
Gate / Barrier Concepts – Flap



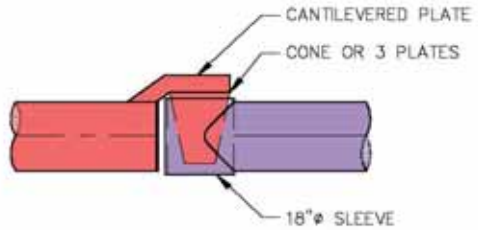
Gate / Barrier Concepts – Flap



Barrier Only Concepts – Louvered System

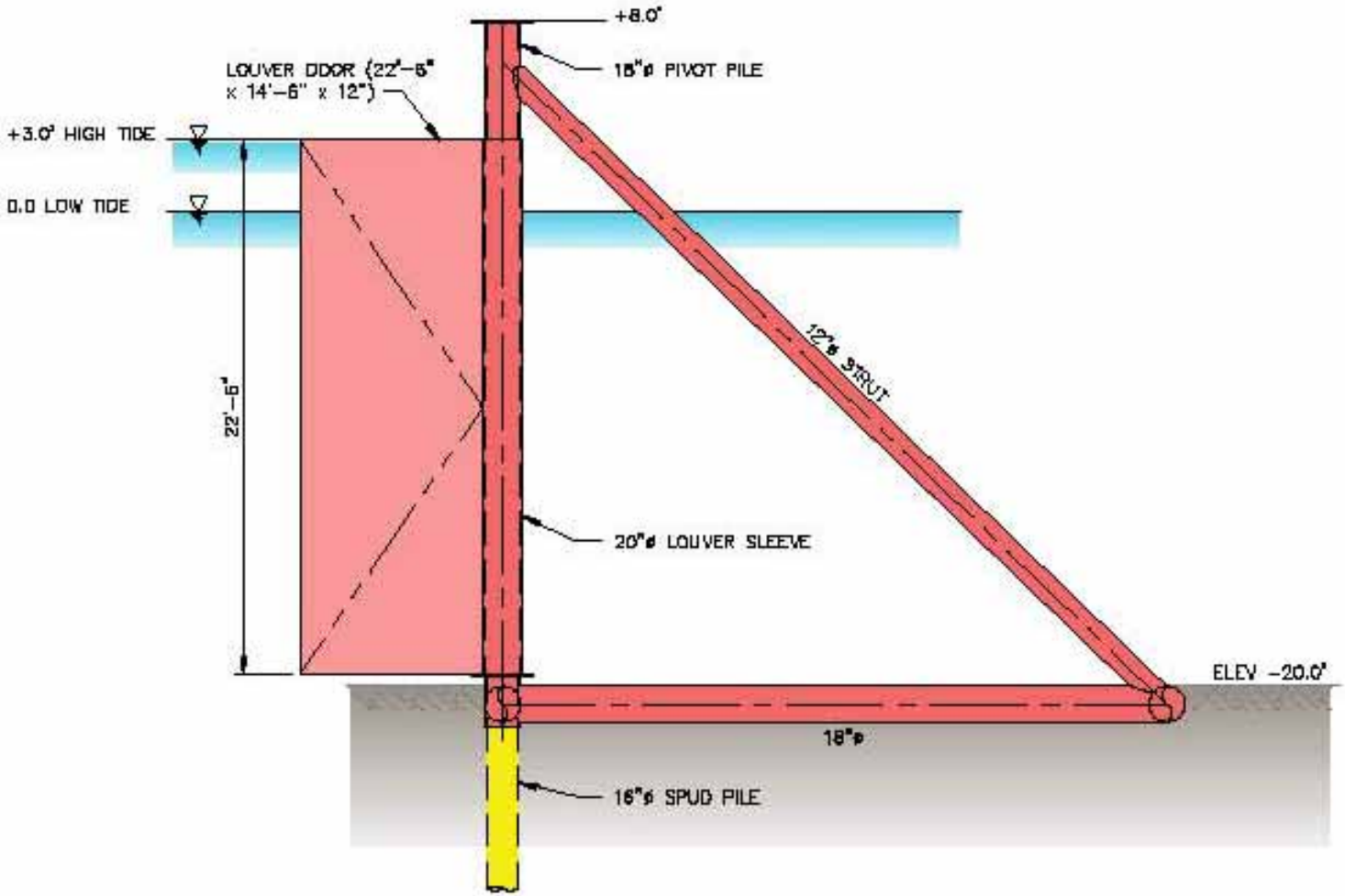


PLAN A
3/32" = 1'-0"

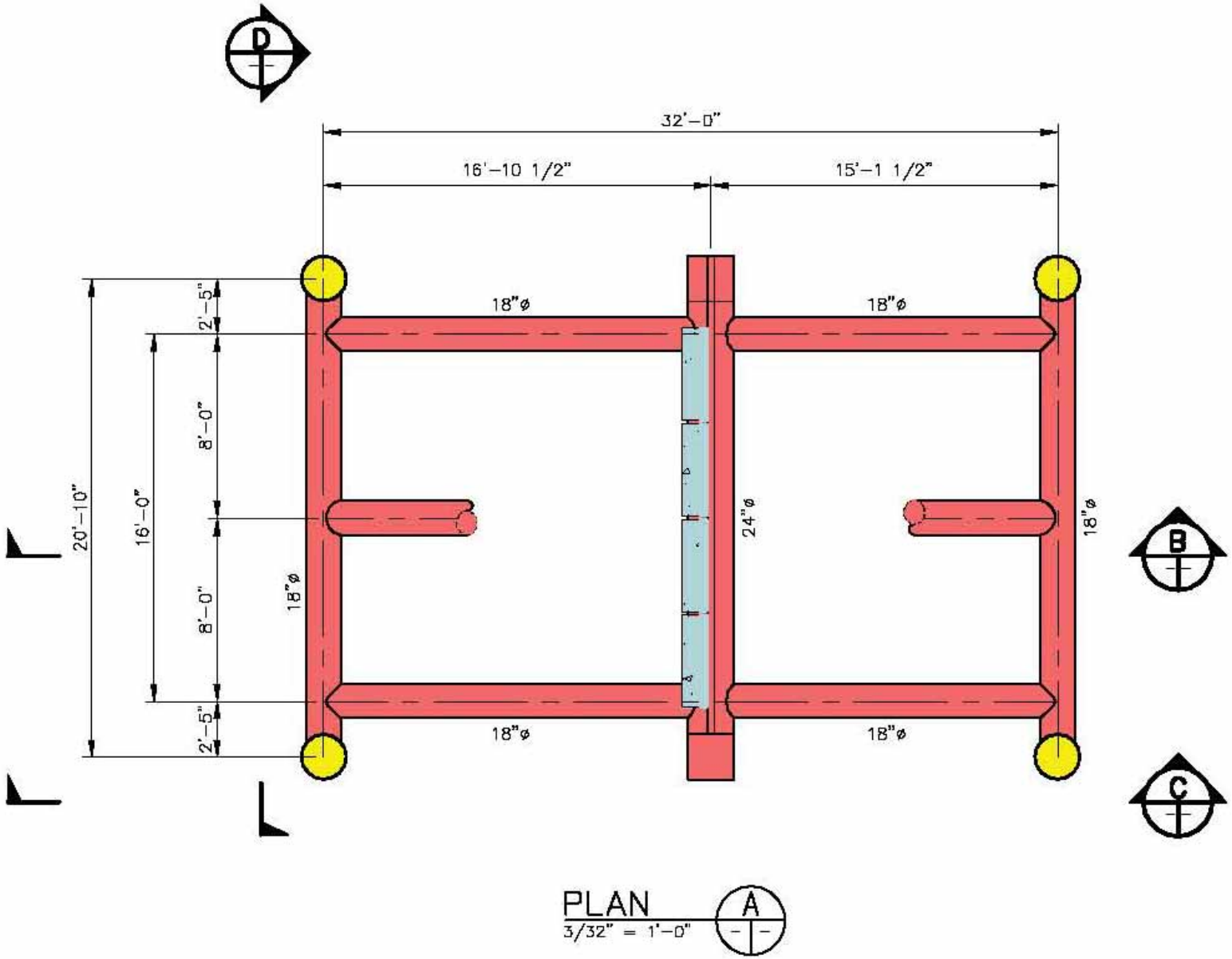


DETAIL 1
3/16" = 1'-0"

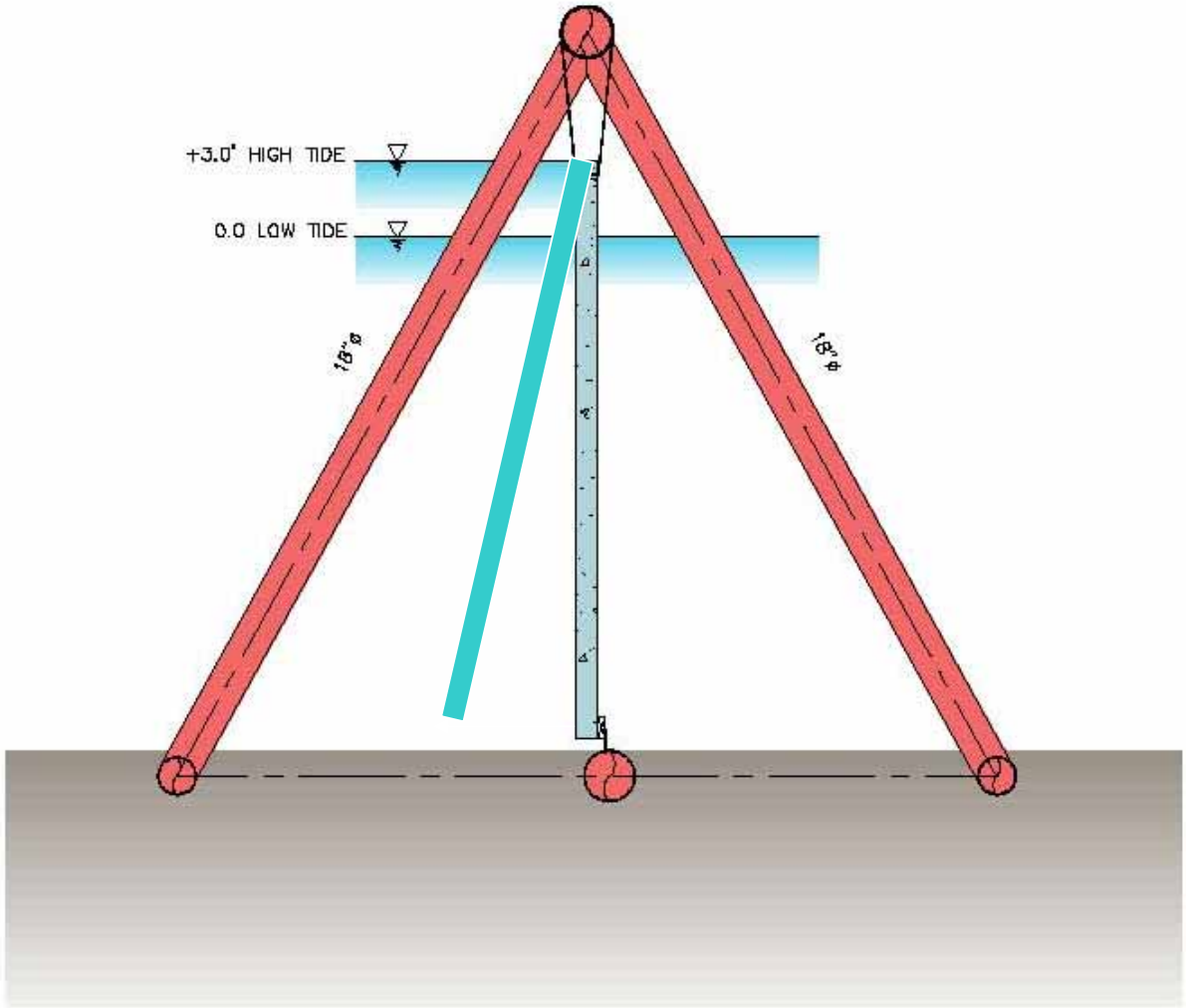
Barrier Only Concepts – Louvered System



Barrier Only Concepts – Pendant

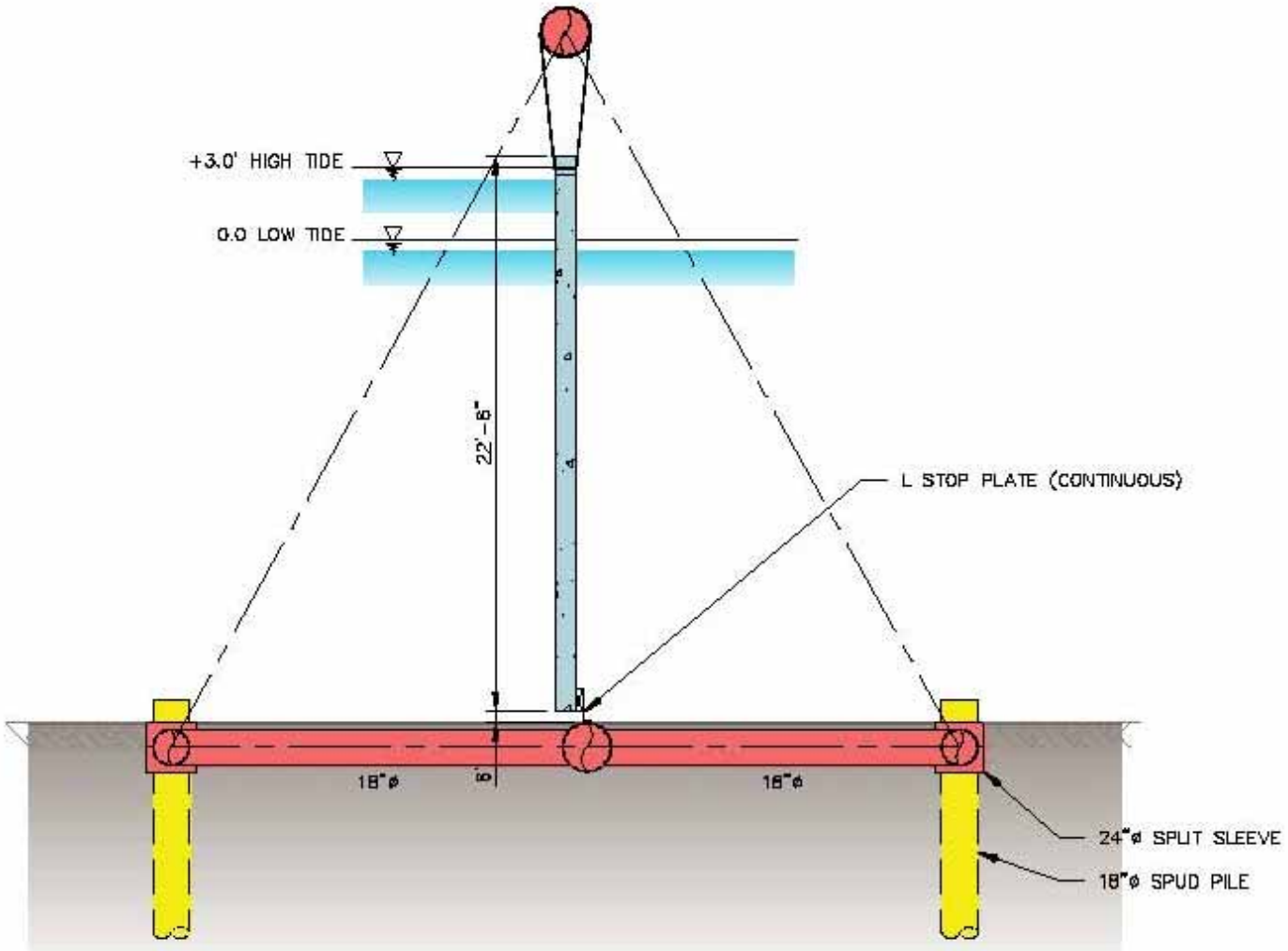


Barrier Only Concepts – Pendant



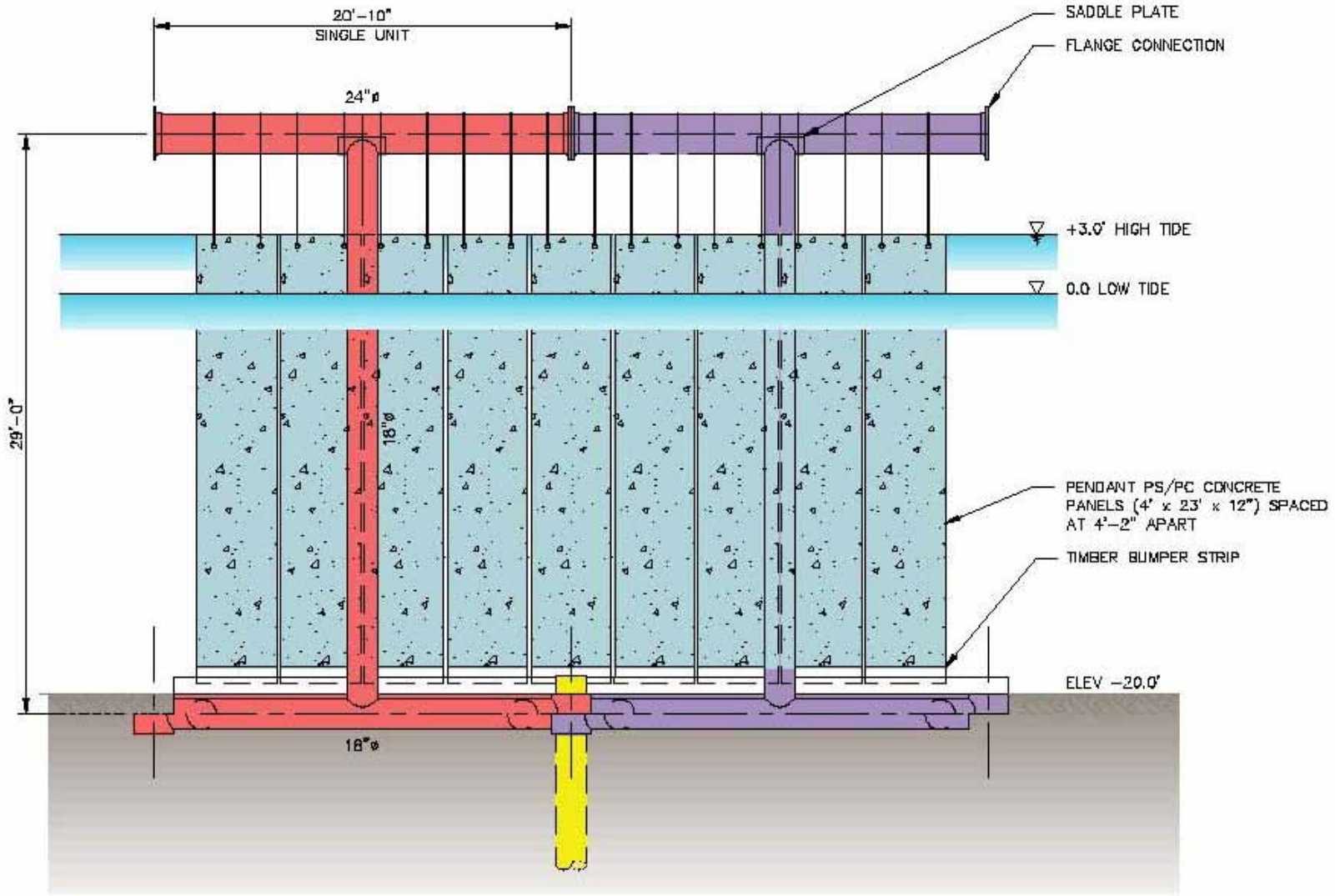
SECTION B
3/32" = 1'-0"

Barrier Only Concepts – Pendant



SECTION C
3/32" = 1'-0"

Barrier Only Concepts – Pendant



Next Pilot Project Meeting

Monday, January 23, 2006, 1 -5 pm

Resources Building, Room 715