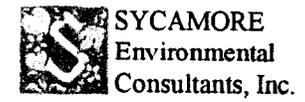
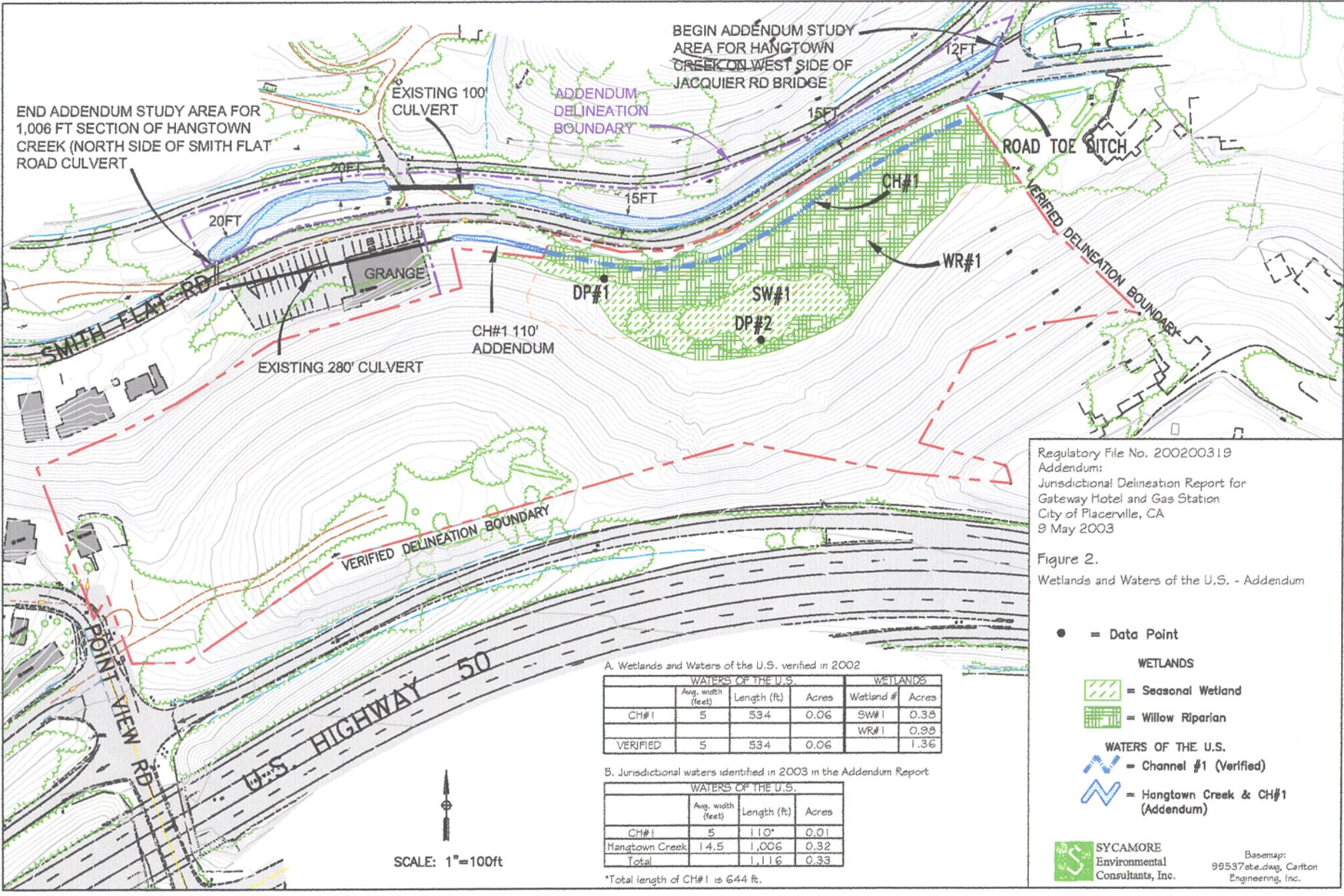


Biological Resources Report for
 Gateway Hotel and Gas Station
 City of Placerville, CA
 8 May 2003

Figure 1.
 Project Location Map



Basemap:
 Placerville and Camino USGS Quads,
 Photorevised 1973
 Teale Data Center DRG



Regulatory File No. 200200319
 Addendum:
 Jurisdictional Delineation Report for
 Gateway Hotel and Gas Station
 City of Placerville, CA
 9 May 2003

Figure 2.
 Wetlands and Waters of the U.S. - Addendum

- = Data Point
- WETLANDS**
- = Seasonal Wetland
- = Willow Riparian
- WATERS OF THE U.S.**
- = Channel #1 (Verified)
- = Hangtown Creek & CH#1 (Addendum)

A. Wetlands and Waters of the U.S. verified in 2002

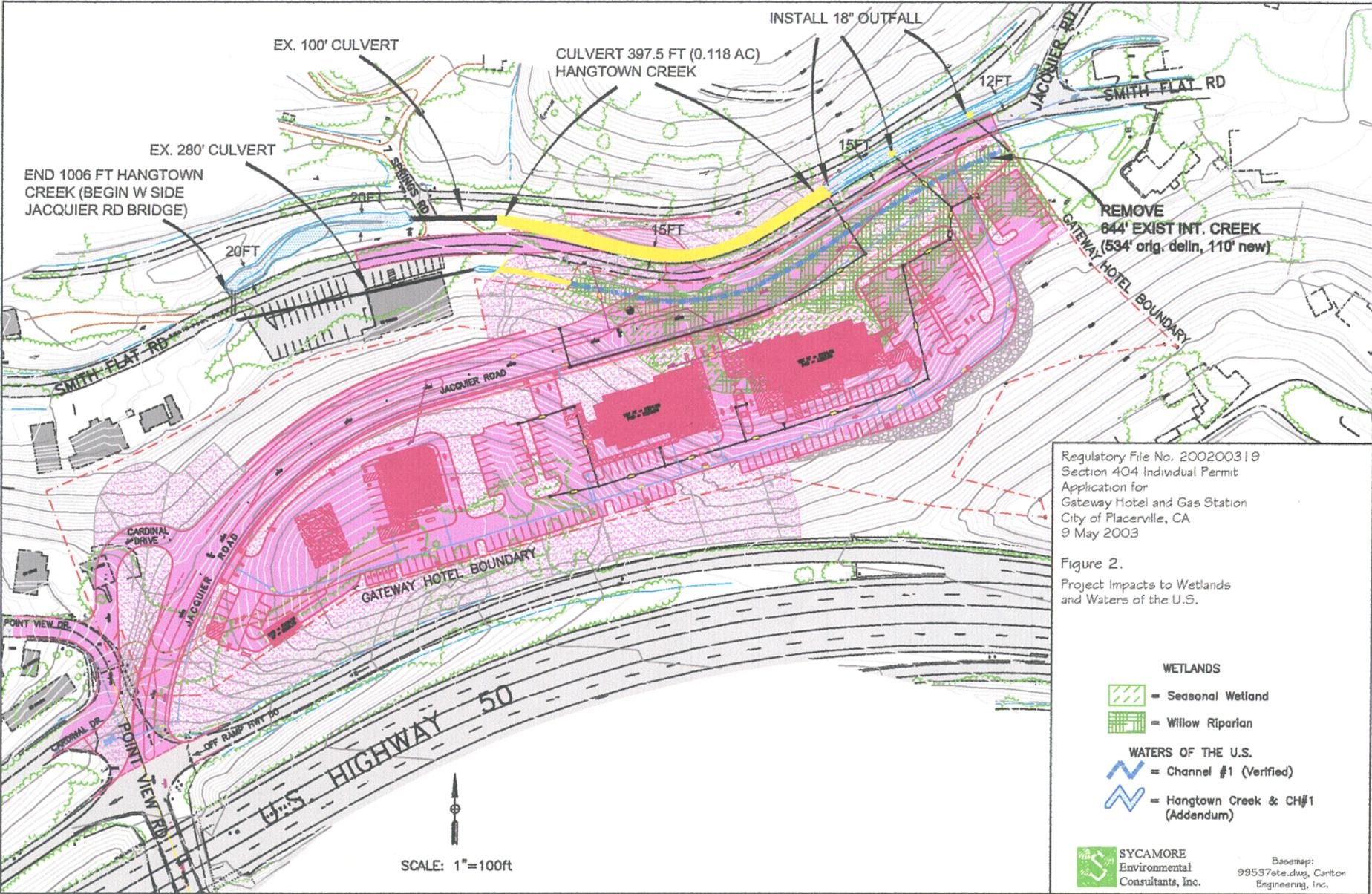
	WATERS OF THE U.S.			WETLANDS	
	Avg. width (feet)	Length (ft)	Acres	Wetland #	Acres
CH#1	5	534	0.06	SW#1	0.32
VERIFIED	5	534	0.06	WR#1	0.98
					1.36

B. Jurisdictional waters identified in 2003 in the Addendum Report

WATERS OF THE U.S.			
	Avg. width (feet)	Length (ft)	Acres
CH#1	5	1,110*	0.01
Hangtown Creek	14.5	1,006	0.32
Total		1,116	0.33

*Total length of CH#1 is 644 ft.

SCALE: 1"=100ft



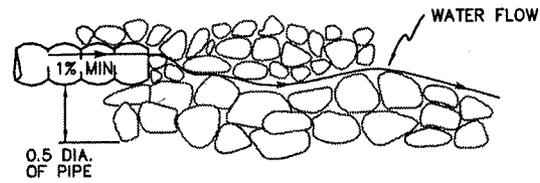
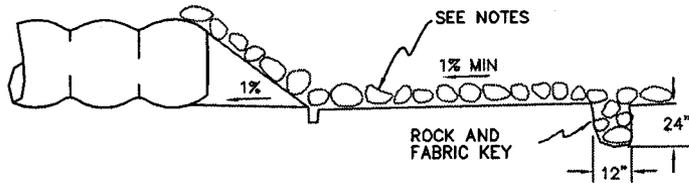
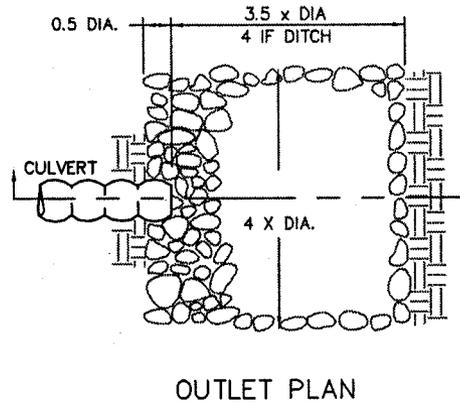
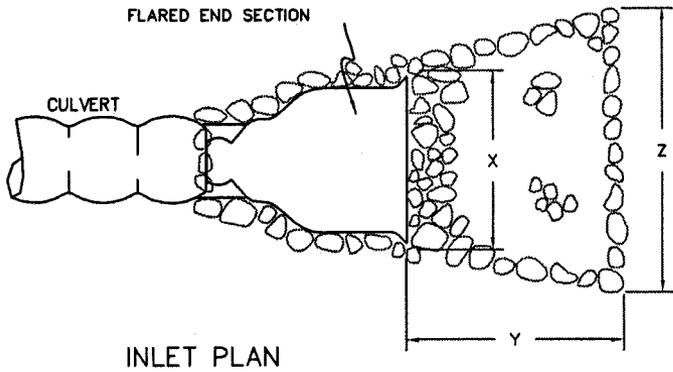
Regulatory File No. 200200319
 Section 404 Individual Permit
 Application for
 Gateway Hotel and Gas Station
 City of Placerville, CA
 9 May 2003

Figure 2.
 Project Impacts to Wetlands
 and Waters of the U.S.

- WETLANDS**
-  = Seasonal Wetland
 -  = Willow Riparian
- WATERS OF THE U.S.**
-  = Channel #1 (Verified)
 -  = Hangtown Creek & CH#1 (Addendum)

SCALE: 1"=100ft


NOTES:



1. HAND PLACE ROCK.
2. ALL ROCK SHALL BE ANGULAR AND HAVE TWO FACES.
3. WHERE SLOPES OF OUTLET EXCEED 5%, A SEDIMENT BOWL OR ENERGY DISSIPATER SHALL BE REQUIRED.
4. FLARED END SECTION AND ROCK INLET PROTECTION WILL SLOPE AT A MINIMUM OF 1% INTO OR OUT OF THE CULVERT.
5. 12"X24" KEY TO BE PLACED FOR BOTH INLET AND OUTLET APPLICATIONS.
6. ON OUTLET APPLICATIONS, 50% OF THE ROCK SHALL BE LARGER THAN HALF THE DIAMETER OF THE PIPE.

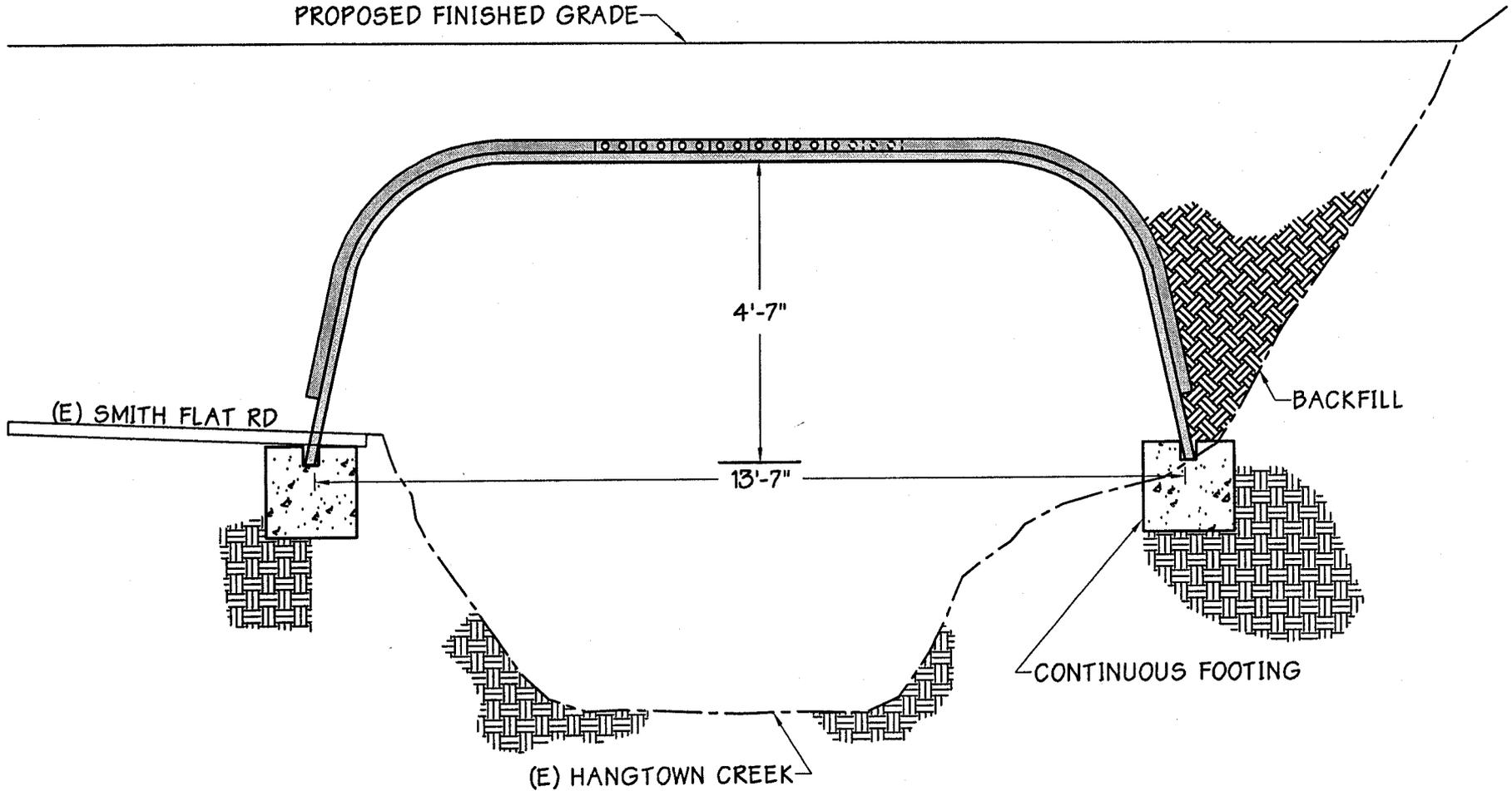
ROCK CLASS	PIPE Ø IN.	3X Ø =X FT	4X Ø =Y FT	5X Ø =Z FT
#1 BACKING	12	3.0	4.0	5.0
#1 BACKING	18	4.5	6.0	7.5
#1 BACKING	24	6.0	8.0	10.0
#1 BACKING	30	7.5	10.0	12.5
#1 BACKING	36	9.0	12.0	15.0

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS

ROCK
INLET/OUTLET
PROTECTION

PROPOSED FINISHED GRADE



Culvert Shell X-Section

NTS

CARLTON
Engineering Inc.

3883 Ponderosa Road, Shingle Springs, CA 95682
Voice 530.677.5515 Fax 530.677.6645



TW

3008-07-02