

**APPENDIX C:
GRADING PLANS**

RAW EARTHWORK ESTIMATE

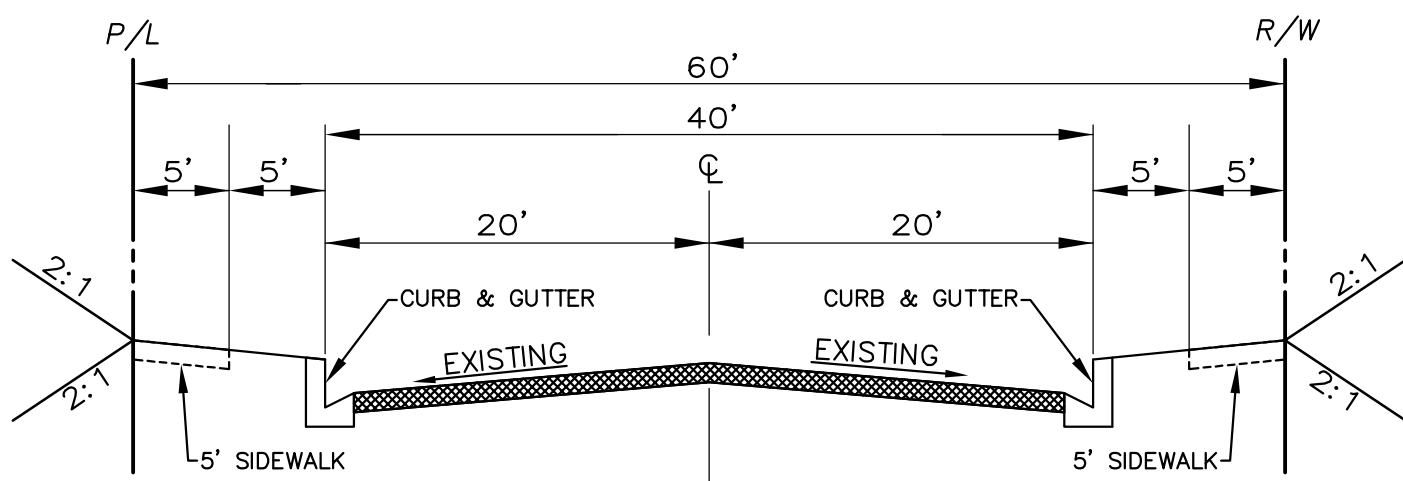
EARTHWORK ESTIMATE	QUANTITIES	
	CUT	FILL
ROUGH GRADING	14,303 CY	39,826 CY
OVER EXCAVATION	29,051 CY	29,051 CY
SUBSIDENCE (0.15')	(2,179) CY	
SHRINKAGE (12.5%)	(5,419) CY	
SUBTOTAL PROJECT EARTHWORK QUANTITIES	35,756 CY	68,877 CY
NET	33,121CY (SHORT)	

EARTHWORK ESTIMATE INCORPORATING INCORPORATING ENVIRONMENTAL RECOMMENDATIONS

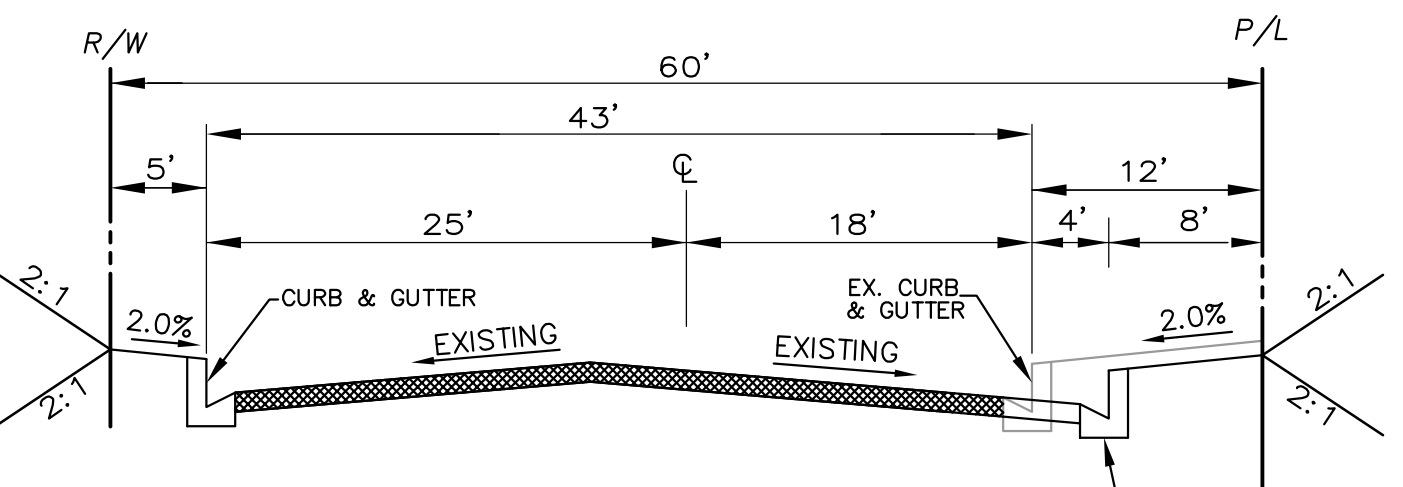
SOIL REUSE:
80% OF THE CUT VOLUME = 0.8*35,756 CY = 28,605 CY

SOIL EXPORT:
20% OF THE CUT VOLUME + ADDITIONAL 1,400 CY =
0.2*35,756 CY + 1,400 CY = 8,551 CY

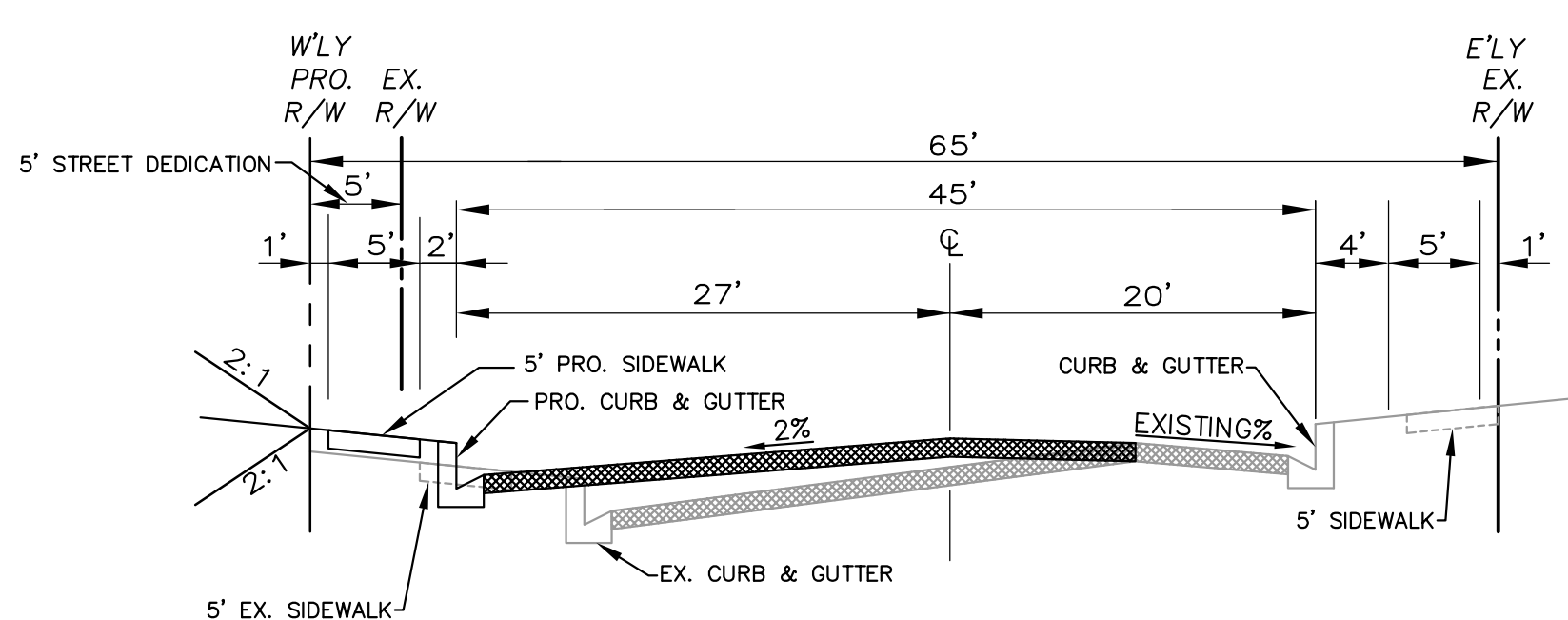
SOIL IMPORT:
FILL VOLUME + ADDITIONAL 1,400 CY - SOIL REUSE =
68,877 CY + 1,400 CY - 28,605 CY = 41,672 CY



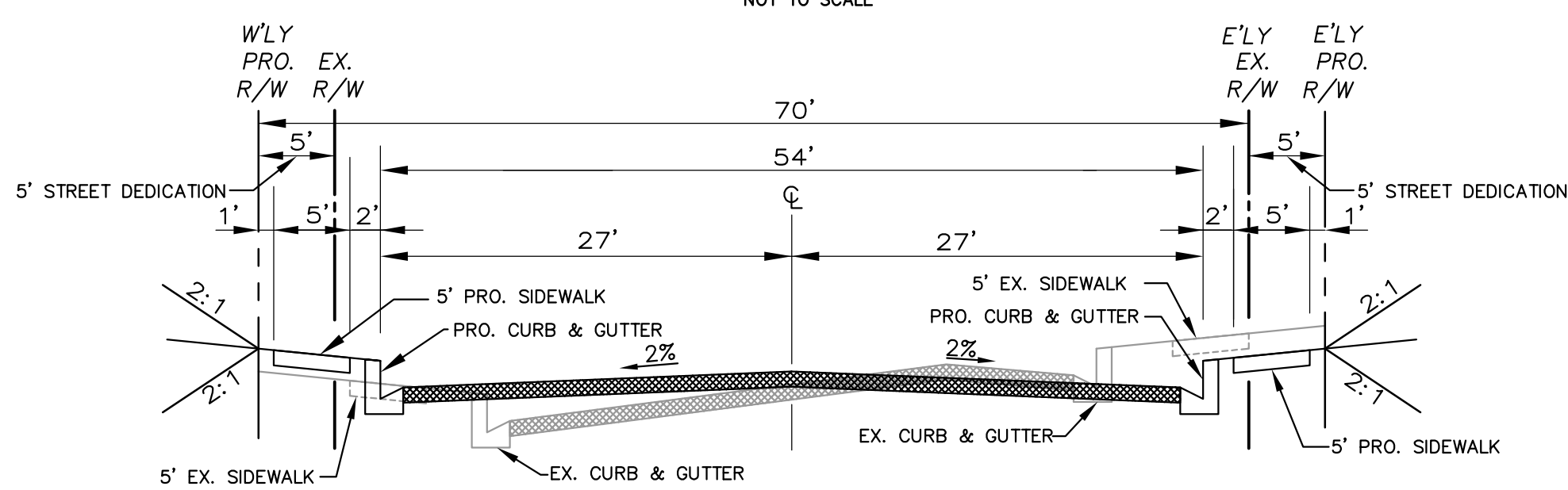
GAVIOTA AVENUE & ALAMOS AVENUE TYPICAL STREET SECTION
NOT TO SCALE



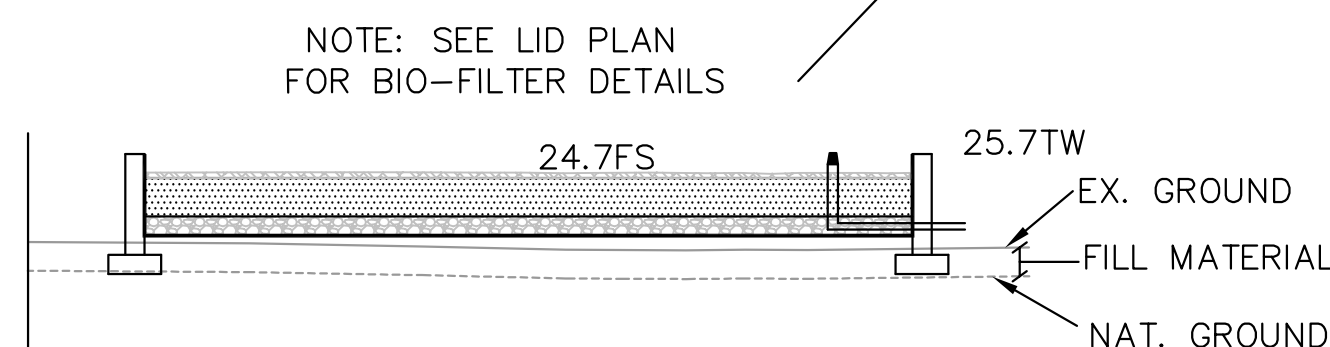
GUNDRY AVENUE TYPICAL STREET SECTION
NOT TO SCALE



NORTH SECTION WALNUT AVENUE TYPICAL STREET SECTION
NOT TO SCALE

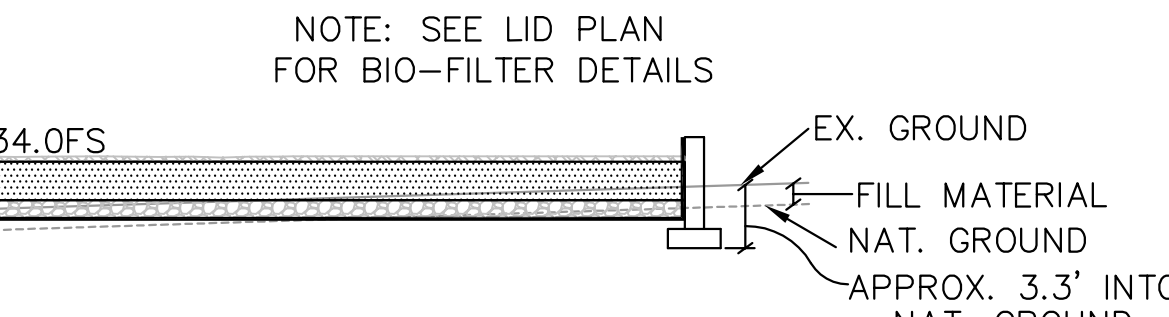


SOUTH SECTION WALNUT AVENUE TYPICAL STREET SECTION
NOT TO SCALE



BIO-FILTER SECTION
SCALES: HOR. 1"=10'; VERT. 1"=10'

VICINITY MAP
N.T.S.



BIO-FILTER SECTION
SCALES: HOR. 1"=10'; VERT. 1"=10'

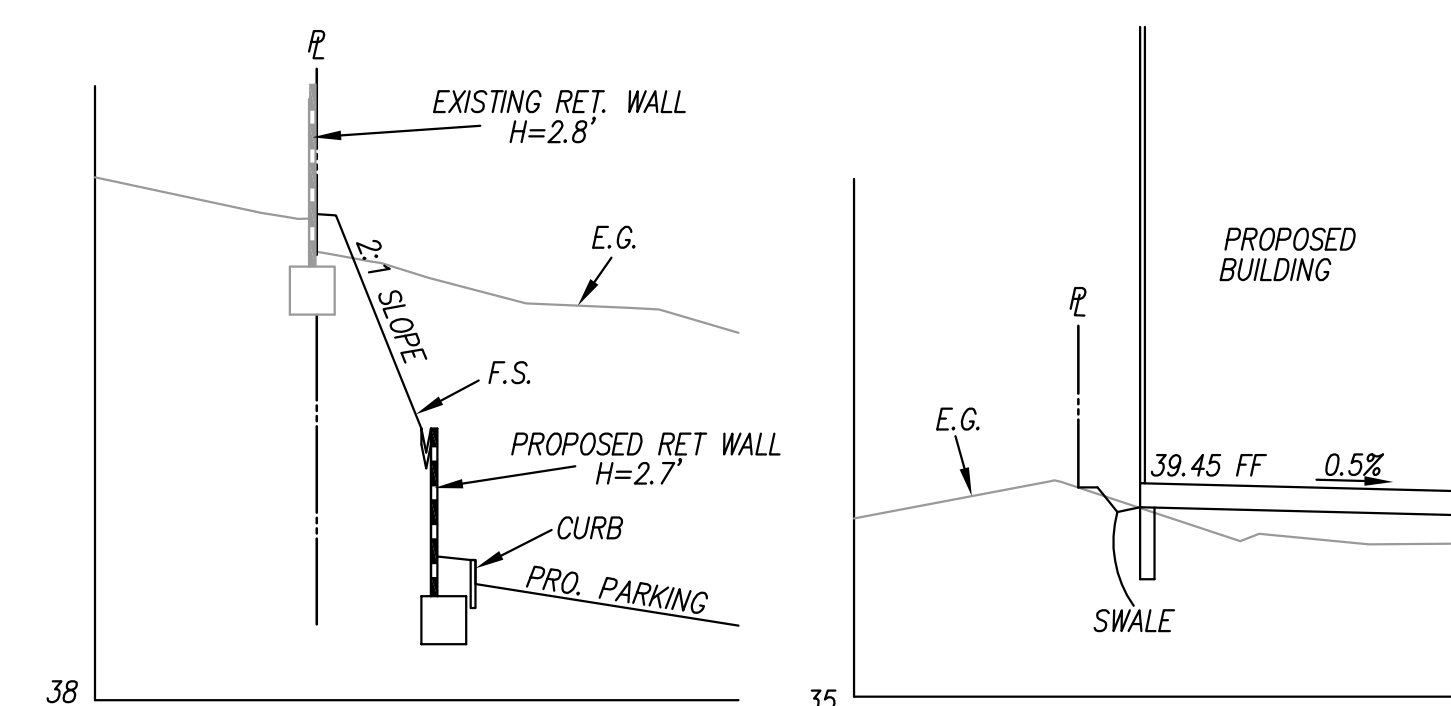
LEGEND

- SD PROPOSED STORM DRAIN
- SS PROPOSED SEWER
- SS EXISTING SEWER
- WT PROPOSED WATER
- WT EXISTING WATER
- SW STEM WALL
- RW RETAINING WALL
- EG EXISTING GROUND
- FS FINISHED SURFACE

CONCEPTUAL GRADING AND UTILITY PLAN
E. 21ST ST + WALNUT AVE.
SIGNAL HILL, CA

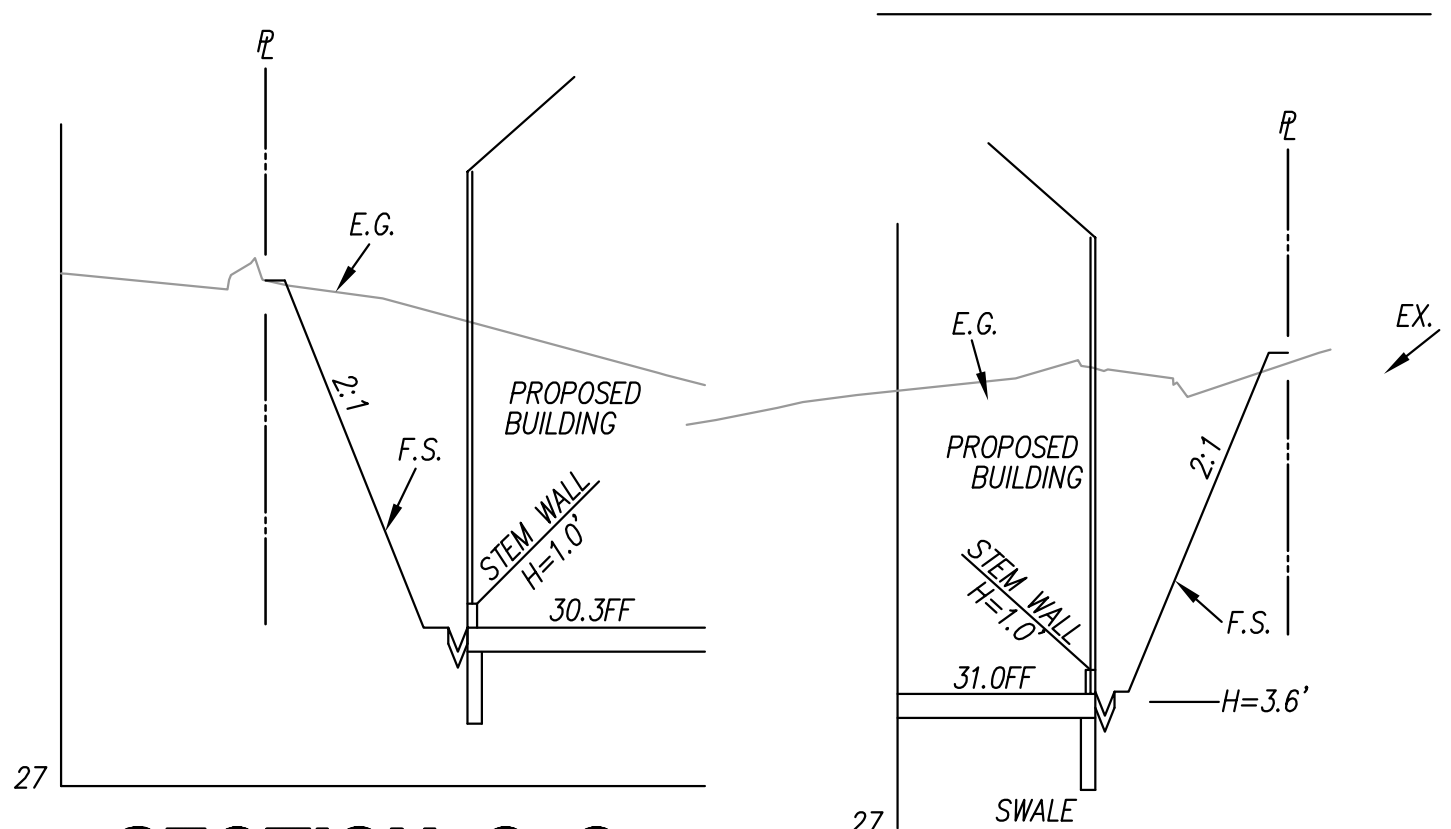
SECTIONS

SCALES: HOR. 1"=20'; VERT. 1"=4'



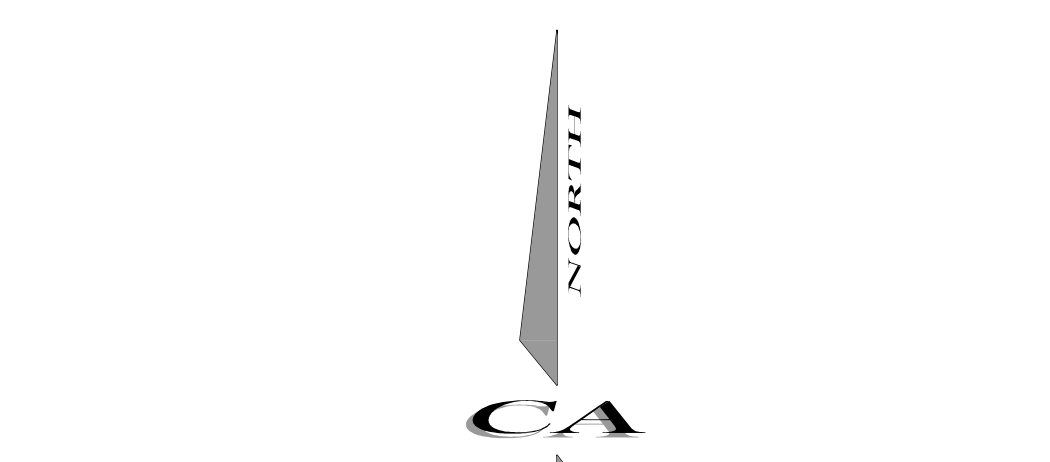
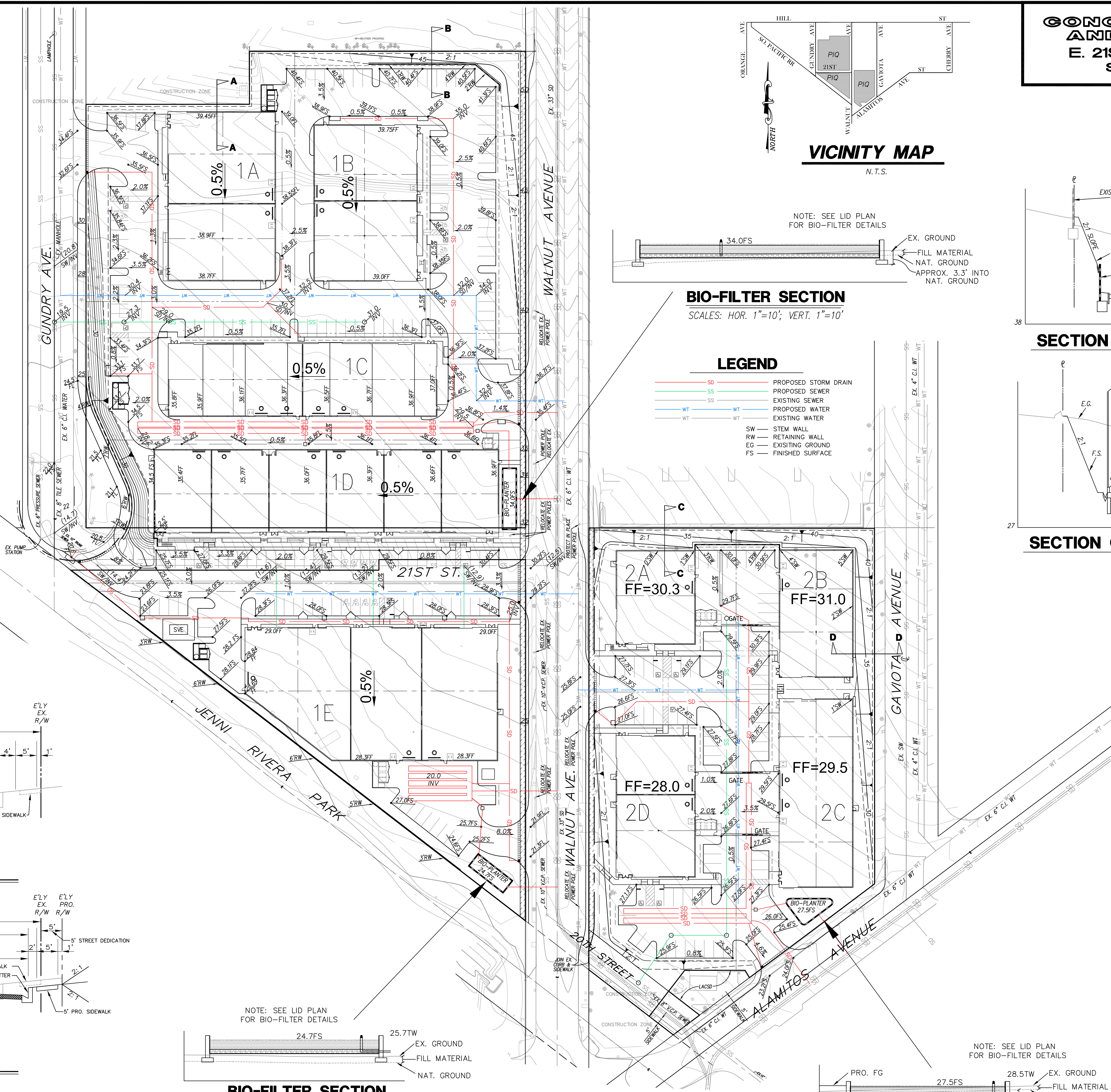
SECTION B-B

SECTION A-A

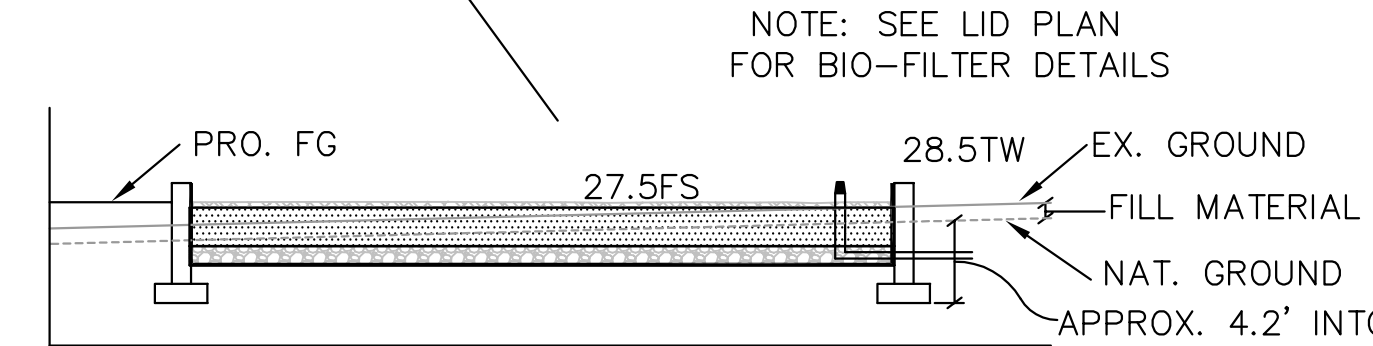


SECTION C-C

SECTION D-D



GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.



BIO-FILTER SECTION
SCALES: HOR. 1"=10'; VERT. 1"=10'



PREPARED BY:	DATE	BY	REVISION
CA ENGINEERING, INC. Planning • Engineering • Surveying 13821 NEWPORT AVE, STE 110 TUSTIN, CA 92780 949-724-9480 949-724-9484 FAX			

XEBEC REALTY PARTNERS
3010 OLD RANCH PARKWAY, STE 470
SEAL BEACH, CA 90740
562-546-0252
CONTACT: MR. STEVEN CHRISTIE

**CONCEPTUAL GRADING
AND UTILITY PLAN #16**
WALNUT AVE.
SIGNAL HILL, CA



LEGEND

- PROPOSED STORM DRAIN
- PROPOSED SEWER
- EXISTING SEWER
- PROPOSED WATER
- EXISTING WATER
- SW — STEM WALL
- RW — RETAINING WALL
- PROPOSED CUT FROM EXISTING TO PROPOSED FINISHED SURFACE
- PROPOSED FILL FROM EXISTING TO PROPOSED FINISHED SURFACE
- 2.87' — DEPTH FROM EXISTING TO NATIVE SOIL

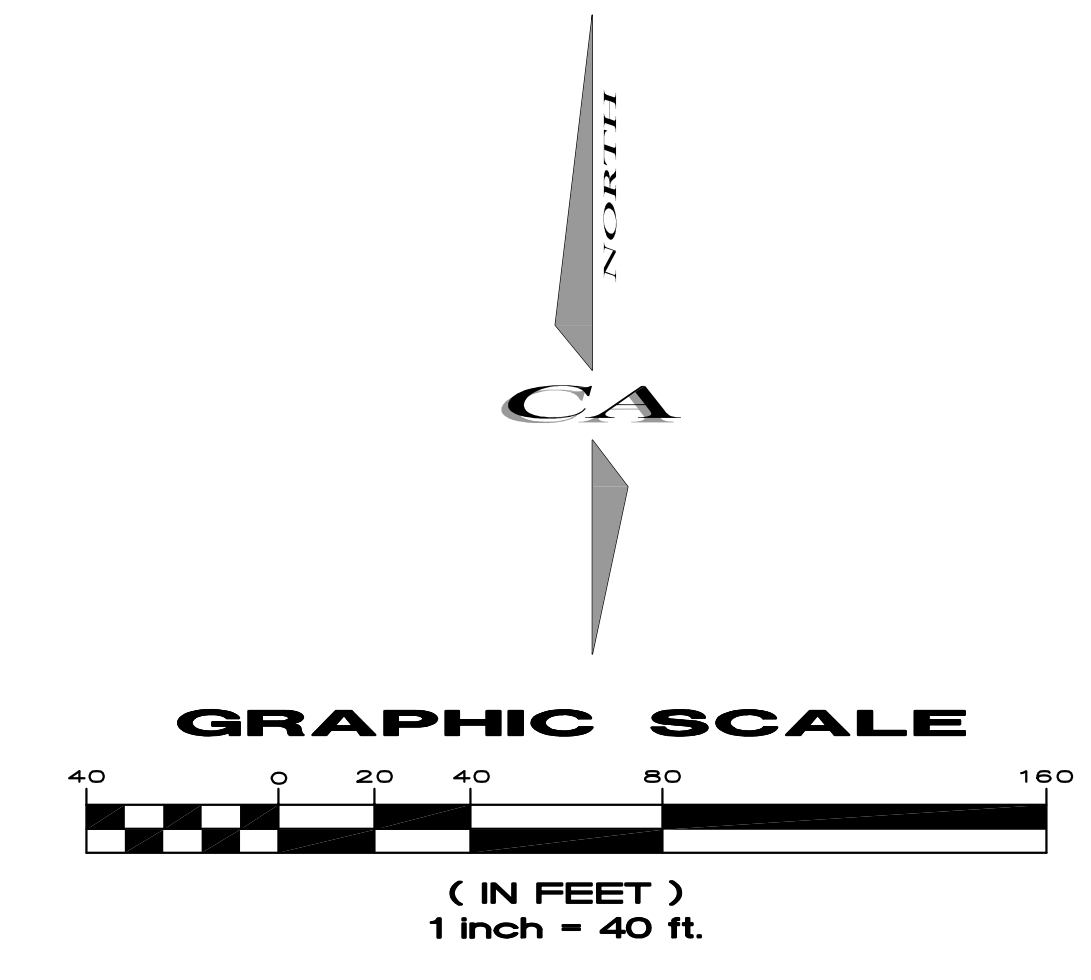
EARTHWORK ESTIMATE	QUANTITIES	
	CUT	FILL
ROUGH GRADING	14,303 CY	39,826 CY
OVER EXCAVATION	29,051 CY	29,051 CY
SUBSIDENCE (0.15')	(2,179) CY	
SHRINKAGE (12.5%)	(5,419) CY	
SUBTOTAL PROJECT EARTHWORK QUANTITIES	35,756 CY	68,877 CY
NET	33,121 CY (SHORT)	



FRED CORNWELL R.C.E. 45591 DATE

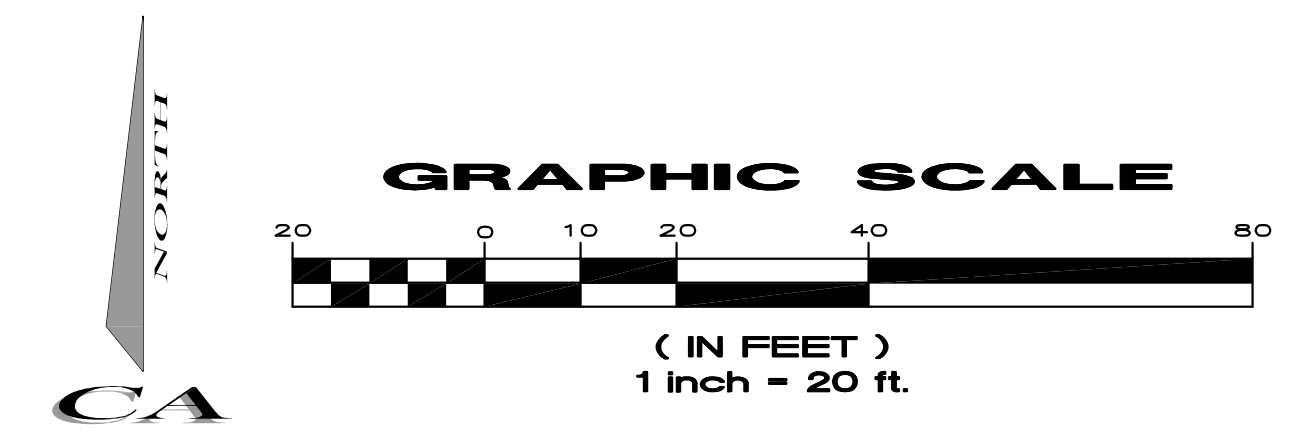
PREPARED BY:	DATE	BY	REVISION
CA ENGINEERING, INC. Planning • Engineering • Surveying 13821 NEWPORT AVE, STE 110 TUSTIN, CA 92780 949-724-9480 949-724-9484 FAX			

XEBEC REALTY PARTNERS
3010 OLD RANCH PARKWAY, STE 470
SEAL BEACH, CA 90740
562-546-0252
CONTACT: MR. STEVEN CHRISTIE



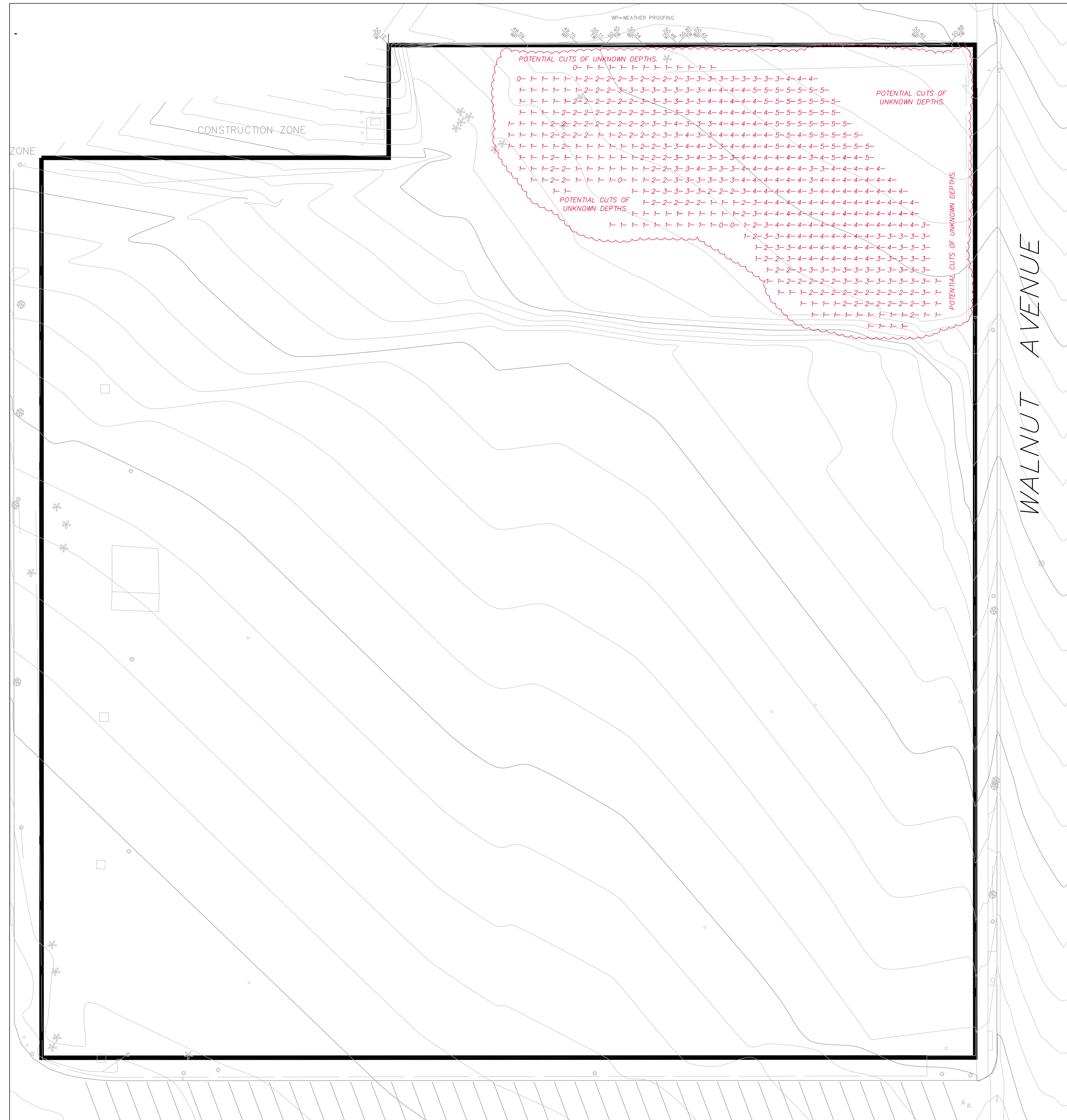
LAST REV
Jun 19 2019
JOB NO.
215-37
SHEET 1 OF 1

**NATURAL GROUND UNDER
FILL GUT MAP
E. 21ST ST + WALNUT AVE.
SIGNAL HILL, CA**

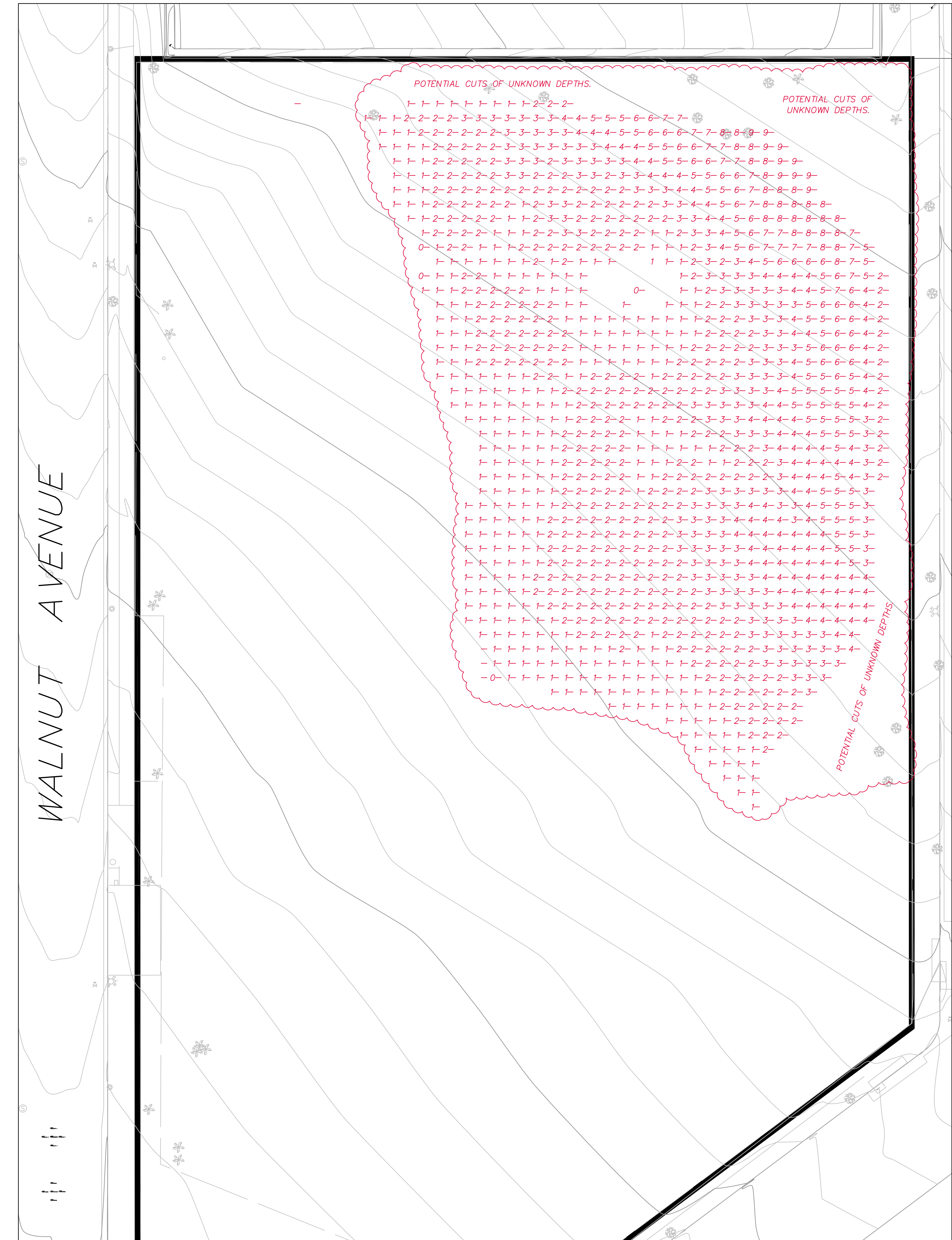


3 - PROJECTED DEPTHS OF CUTS INTO NATURAL GROUND BENEATH THE ARTIFICIAL FILL. THESE DEPTHS WERE DETERMINED FROM LOGGED TRENCHES AND THE CONCEPTUAL GRADING PLANS. THESE DEPTHS DO NOT INCLUDE POSSIBLE OVER EXCAVATION REQUIREMENTS.

SOUTHEAST SITE



NORTHWEST SITE



FRED CORNWELL R.C.E. 45591 DATE

PREPARED BY:	DATE	BY	REVISION
CA ENGINEERING, INC. Planning • Engineering • Surveying 13821 NEWPORT AVE, STE 110 TUSTIN, CA 92780 949-724-9480 949-724-9484 FAX			

XEBEC REALTY PARTNERS
3010 OLD RANCH PARKWAY, STE 470
SEAL BEACH, CA 90740
562-546-0252
CONTACT: MR. STEVEN CHRISTIE

LAST REV.
May 08 2019
JOB NO.
215-39
Sht. 1 of 1