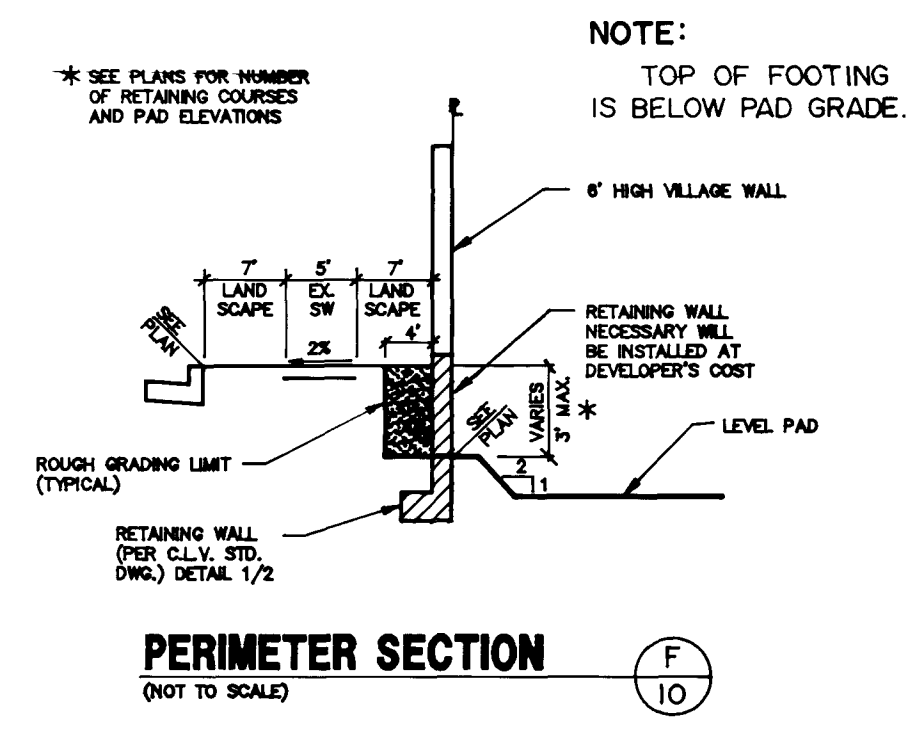
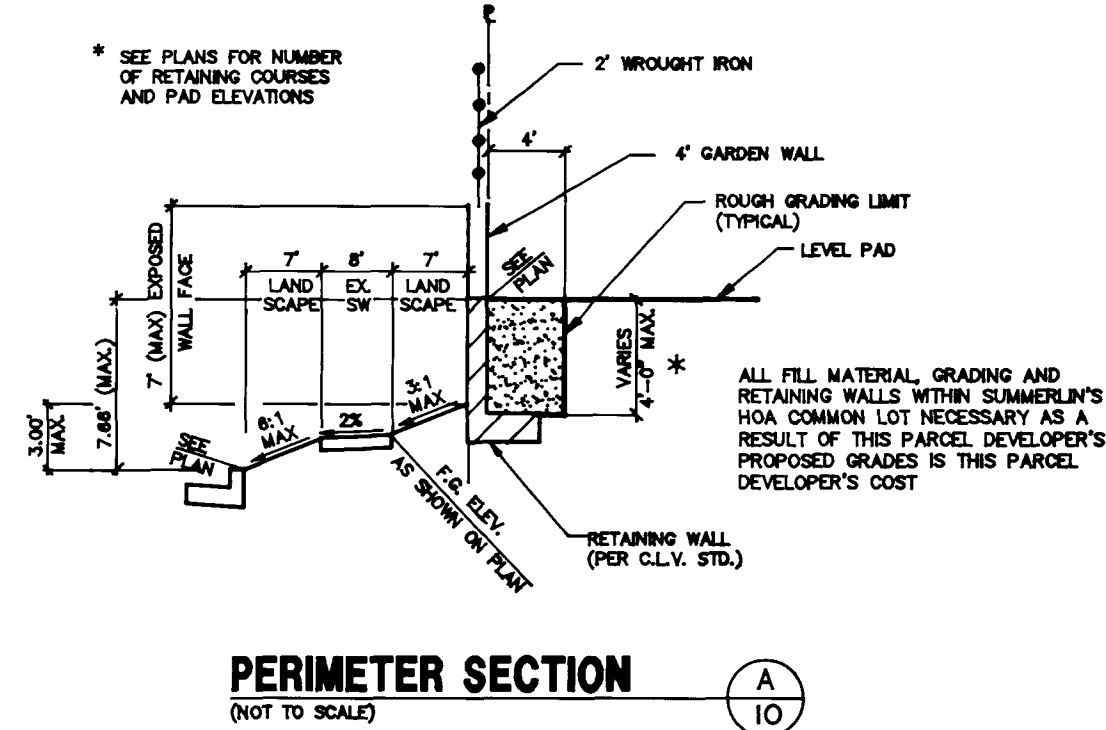


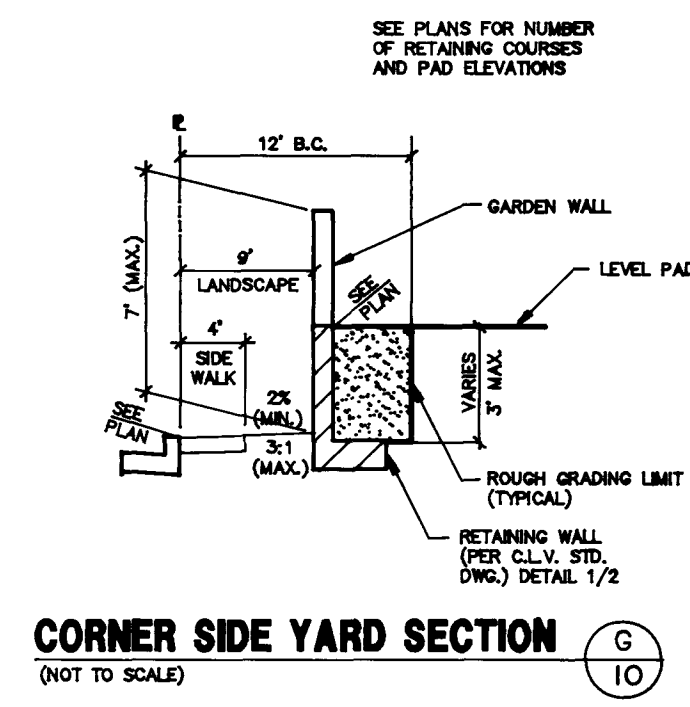
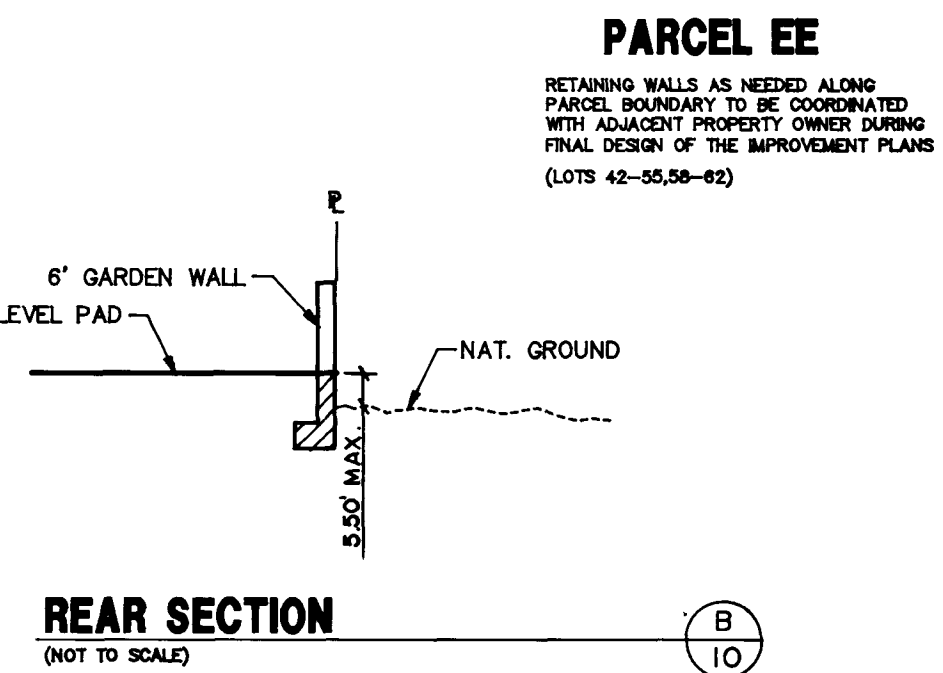
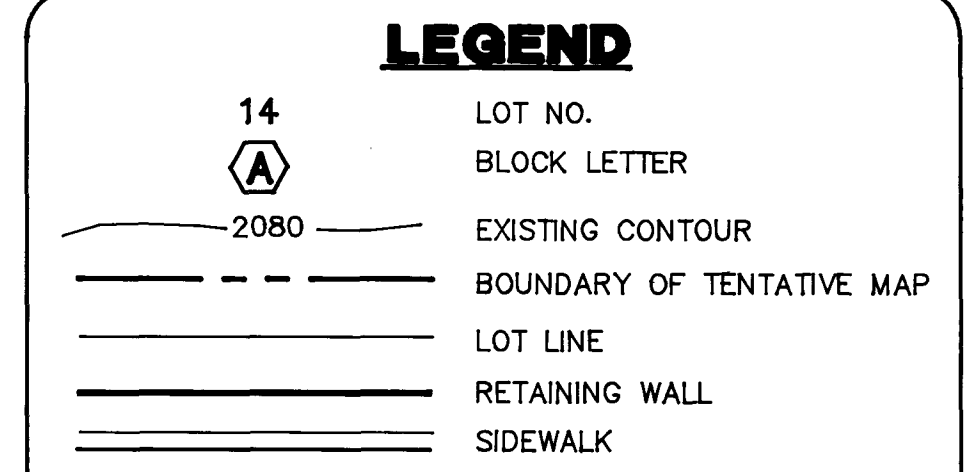
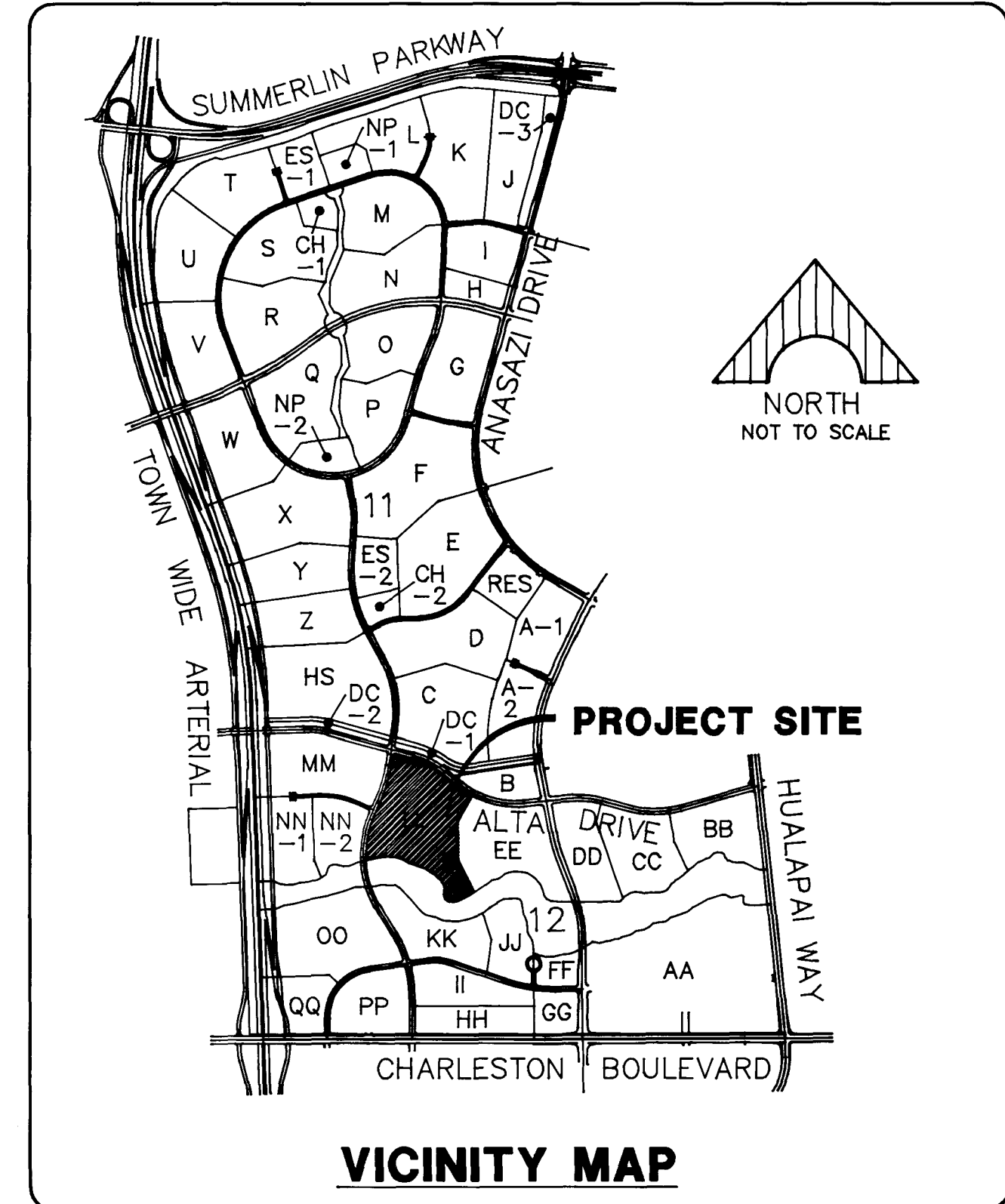


GRADING NOTES:

1. INDICATED GRADES OTHER THAN T.C., F.G., & F.L., ARE ROUGH GRADES. (0.3' LOWER THAN FINISHED GRADE.)
2. ALL GRADING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS AS INDICATED IN THE SOILS STUDY.
3. CARE SHALL BE EXERCISED IN GRADING OF REAR YARDS OF CORNER LOTS.
4. EARTH QUANTITIES:

CUT	6732 C.Y.
FILL	8586 C.Y.

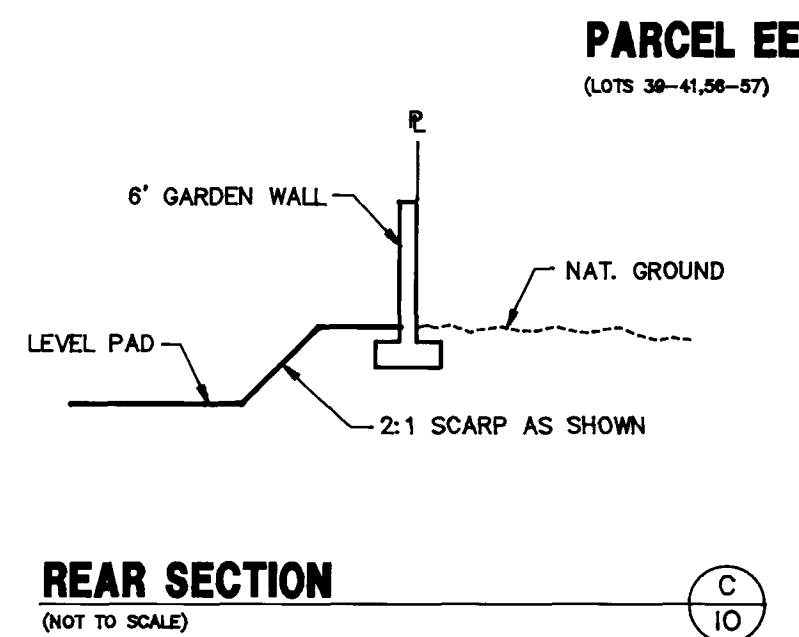
 - A) THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE AND/OR SHRINKAGE.
 - B) THE ABOVE QUANTITIES DO NOT REFLECT USING TYPE 1 GRAVEL BASE MATERIAL FOR STREET SECTIONS.
5. THE ROUGH GRADING OPERATION SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THESE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATIONS AND DETAILS SHOWN.
6. THE ABOVE QUANTITIES SHOWN ARE ESTIMATES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.
7. OWNER AGREES THAT IF EXISTING NATIVE MATERIAL DOES NOT CONFORM TO SPECIFICATIONS FOR TYPE 1 BASE, OWNER WILL IMPORT TYPE 1 BASE FOR A.C. PAVEMENT AND COMPLY WITH CITY OF LAS VEGAS STANDARDS.



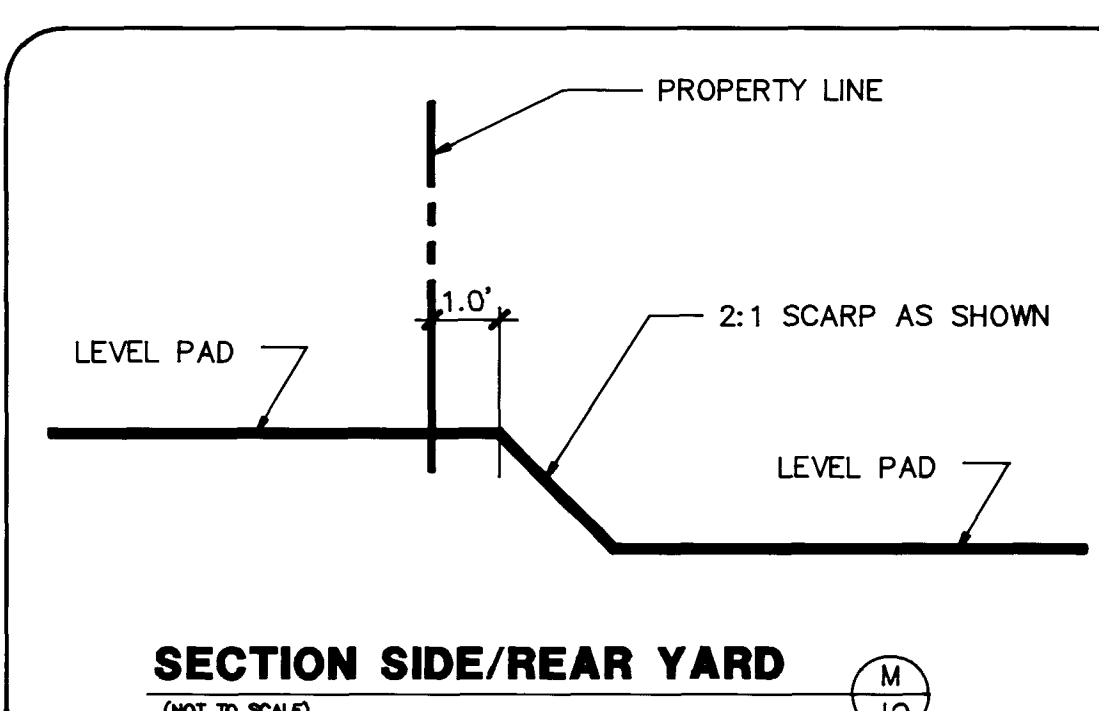
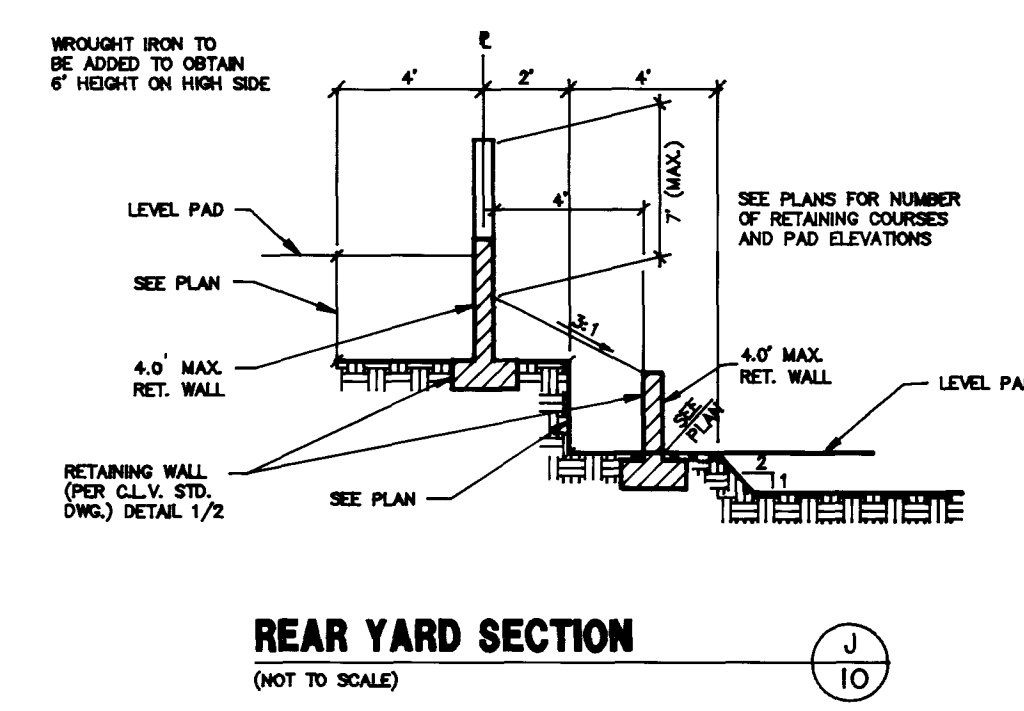
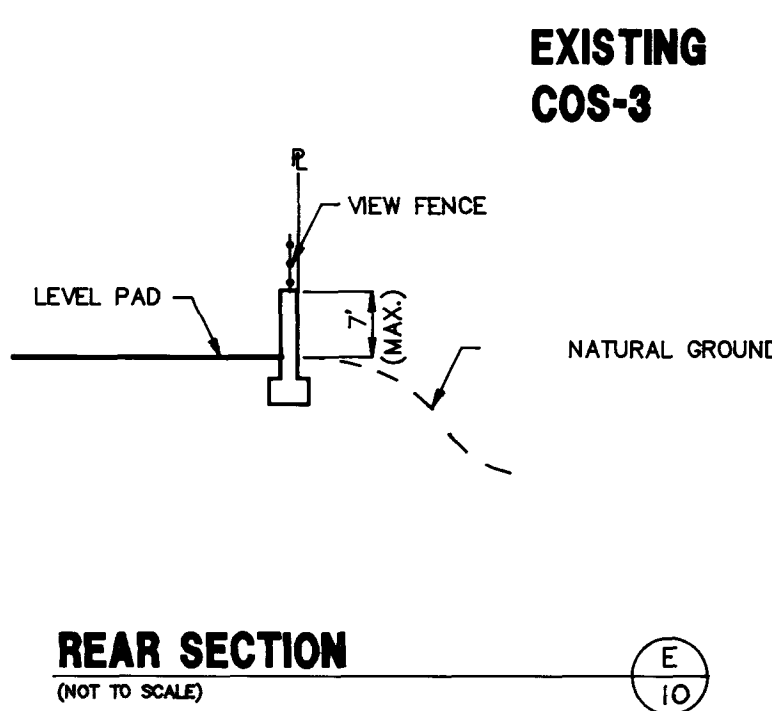
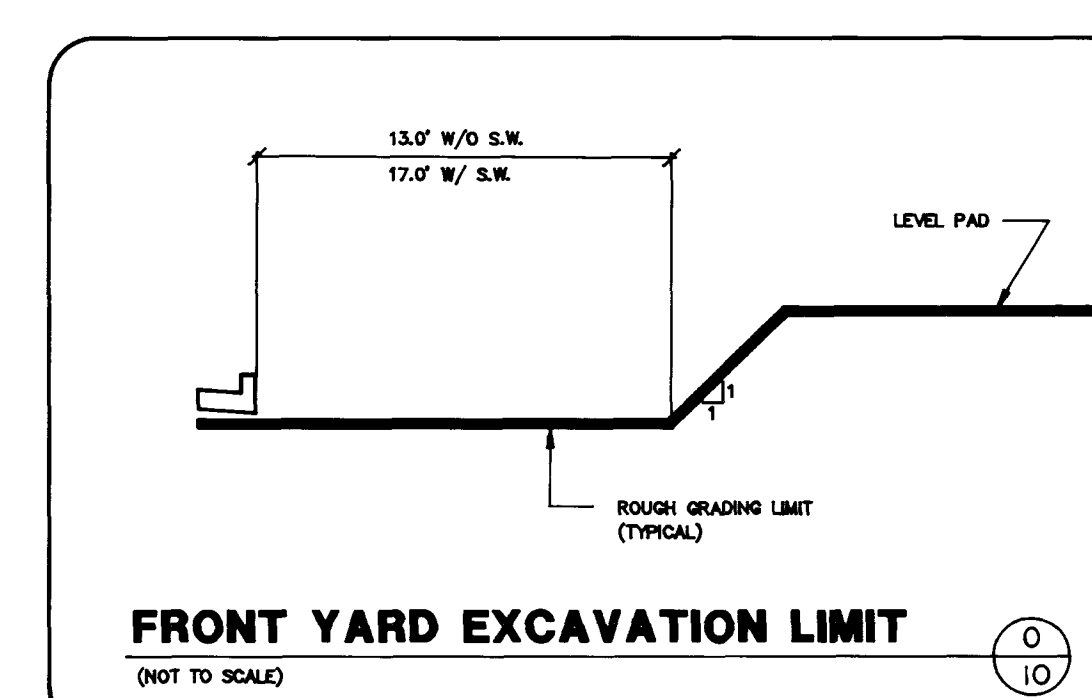
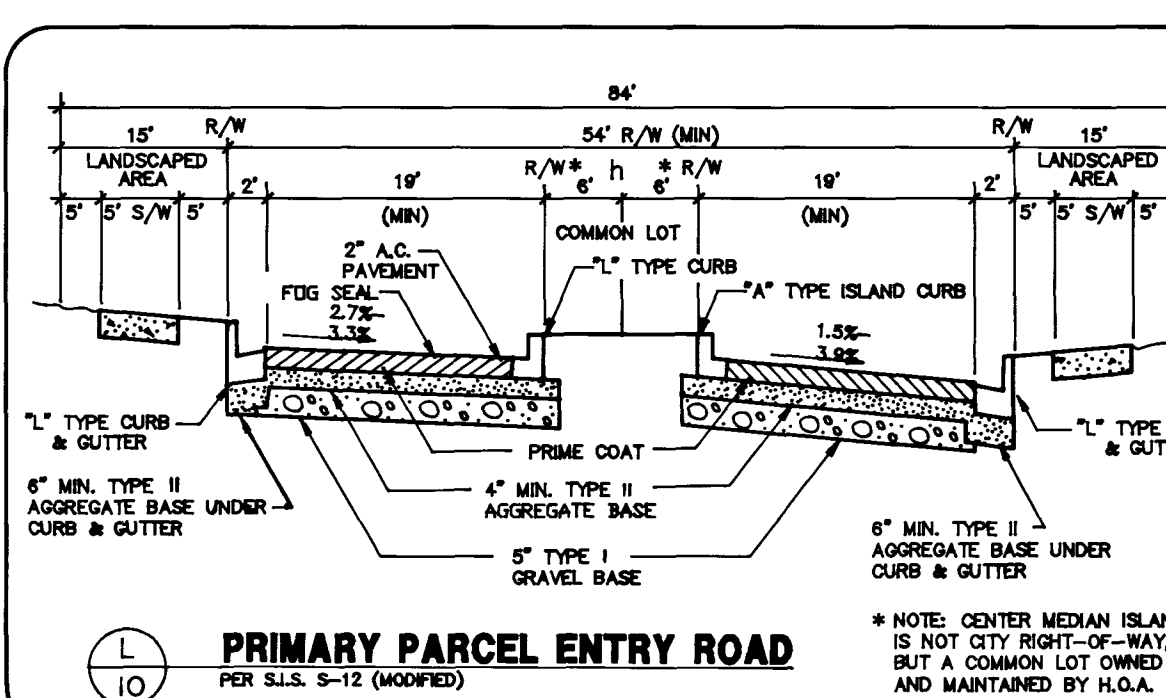
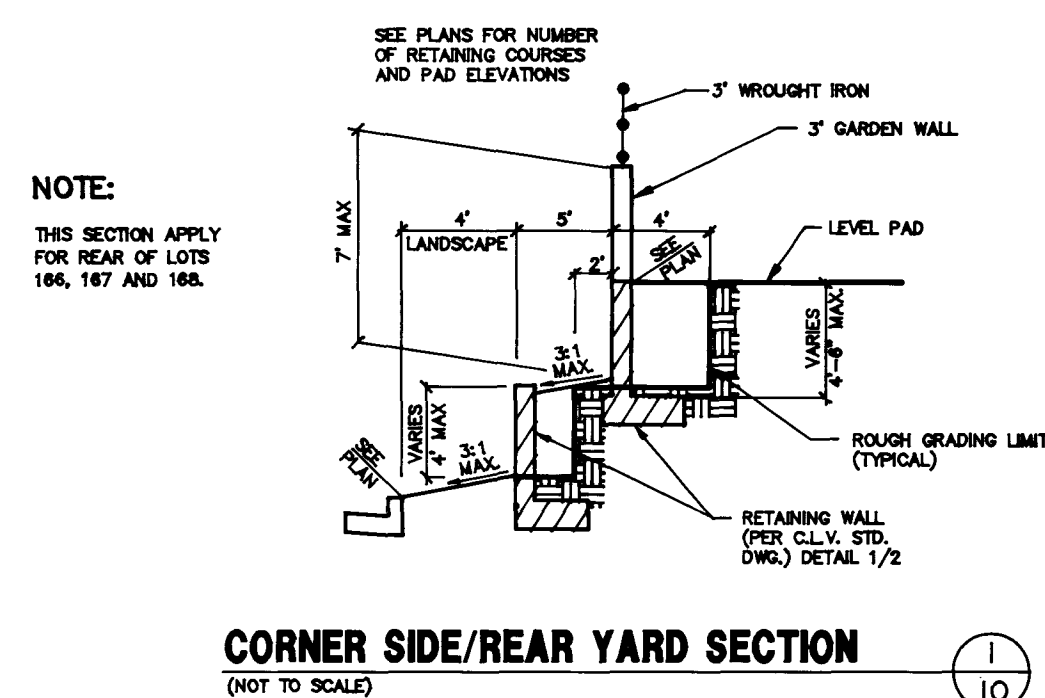
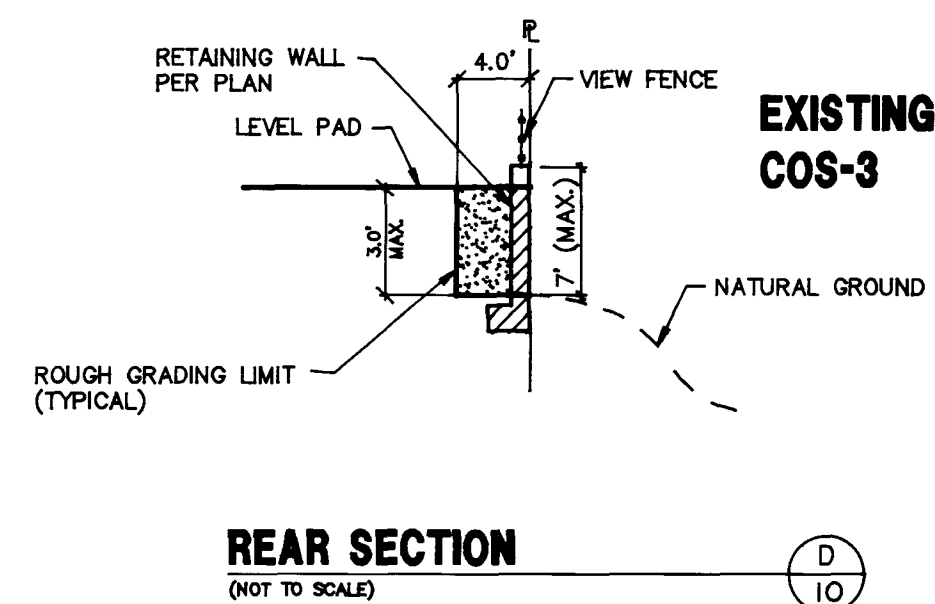
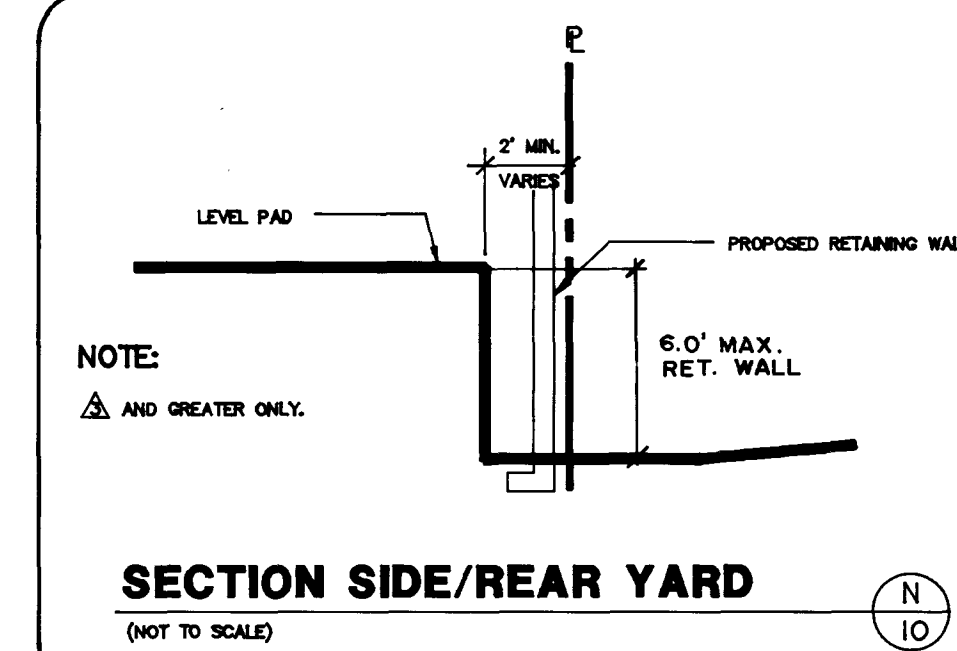
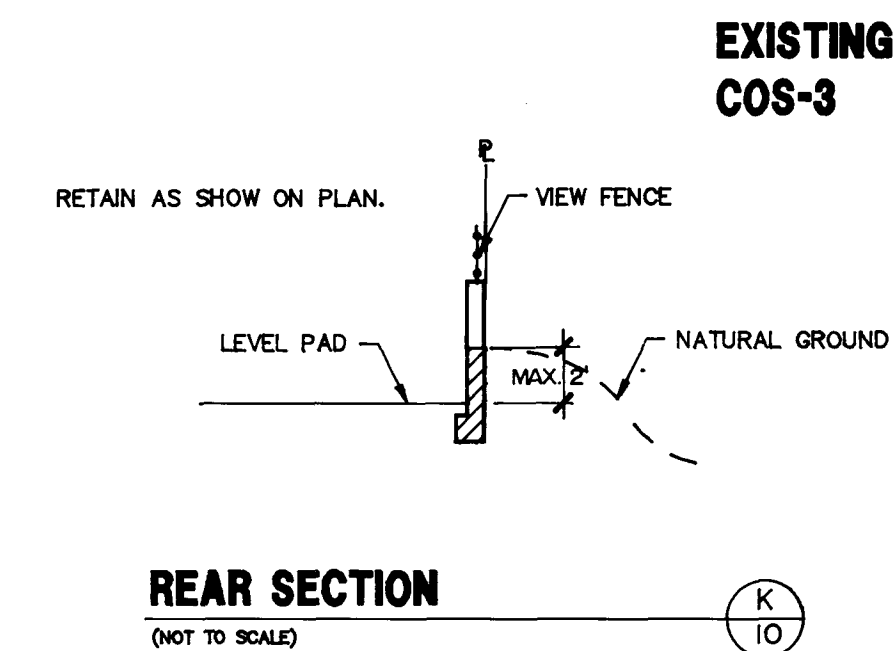
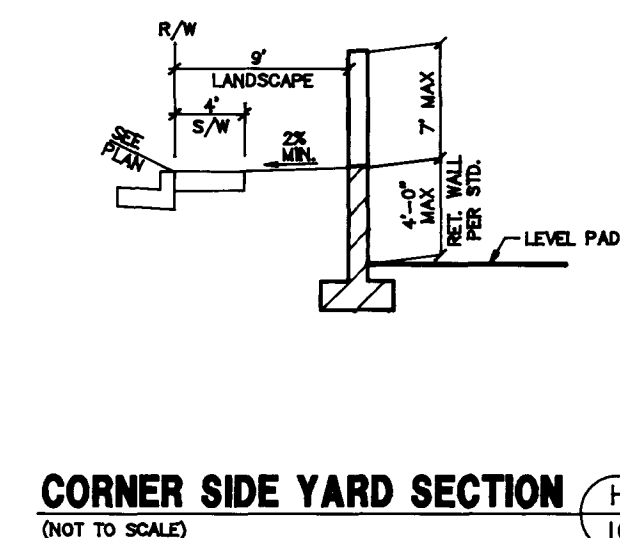
EVALUATION OF GRADING QUANTITIES

USING A SHRINKAGE FACTOR OF 20 %, AND A SUBSIDENCE OF 0.15', AN ESTIMATE FOR THE GRADING IS SHOWN BELOW. PLEASE NOTE THAT THESE QUANTITIES ARE ESTIMATES ONLY. A DIFFERENT FIELD CONDITION WILL YIELD A DIFFERENT QUANTITIES.

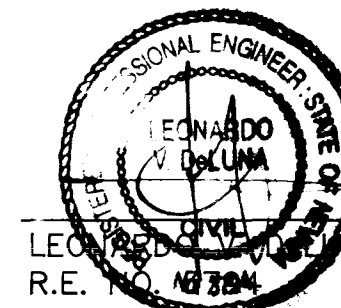
	CUT	FILL
COMPUTED VOLUME	6700	8600
SUBSIDENCE	500	400
SUB-TOTAL	6200	9000
SHRINKAGE (20 %)		1800
TOTAL	6200	10800
IMPORT		4600



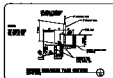
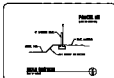
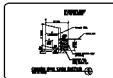
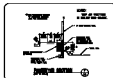
NOTE:
STEM WALL IS GROUTED SOLID.



I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.



9/9/97
DATE



GRADING NOTES:

1. TOP OF GRADE SHALL BE 1.0' HIGHER THAN THE EXISTING GRADE.
2. EXISTING GRADE SHALL BE SHOWN BY THE DOTTED LINE.
3. NEW GRADE SHALL BE SHOWN BY THE SOLID LINE.
4. EXISTING GRADE SHALL BE SHOWN BY THE DOTTED LINE.
5. NEW GRADE SHALL BE SHOWN BY THE SOLID LINE.
6. EXISTING GRADE SHALL BE SHOWN BY THE DOTTED LINE.
7. NEW GRADE SHALL BE SHOWN BY THE SOLID LINE.

EVALUATION OF GRADING QUANTITIES

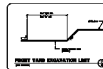
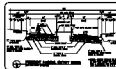
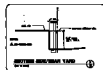
THESE QUANTITIES ARE BASED ON THE ASSUMPTION THAT THE EXISTING GRADE IS AS SHOWN ON THE GRADING PLAN. ANY CHANGES IN THE EXISTING GRADE SHALL BE SHOWN BY THE DOTTED LINE.

EXISTING GRADE	NEW GRADE	DIFFERENCE
1.0'	1.0'	0.0'
1.0'	1.1'	0.1'
1.0'	0.9'	-0.1'



LEGEND

EXISTING GRADE	NEW GRADE
DIFFERENCE	DIFFERENCE
EXISTING GRADE	NEW GRADE
DIFFERENCE	DIFFERENCE



I CERTIFY THAT THE GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED GRADING STUDY ON FILE AT THE CITY OF LOS ANGELES FOR THIS PROJECT.



DELAMAR, INC.
REGISTERED PROFESSIONAL ENGINEER
No. 12345
City of Los Angeles, California

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