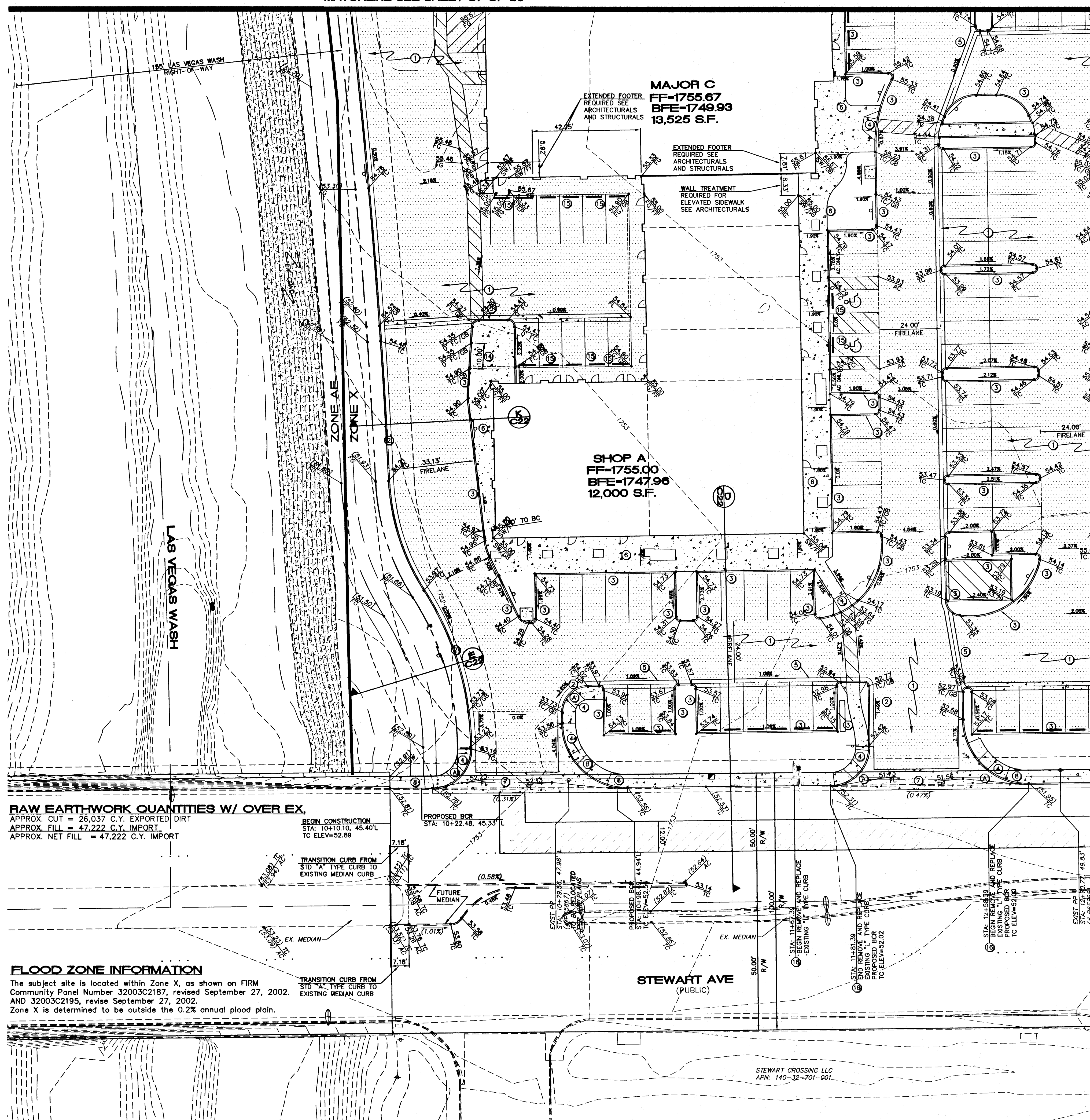


**RAW EARTHWORK QUANTITIES W/ OVER EX.**

APPROX. CUT = 26,037 C.Y. EXPORTED DIRT
 APPROX. FILL = 47,222 C.Y. IMPORT
 APPROX. NET FILL = 47,222 C.Y. IMPORT

FLOOD ZONE INFORMATION

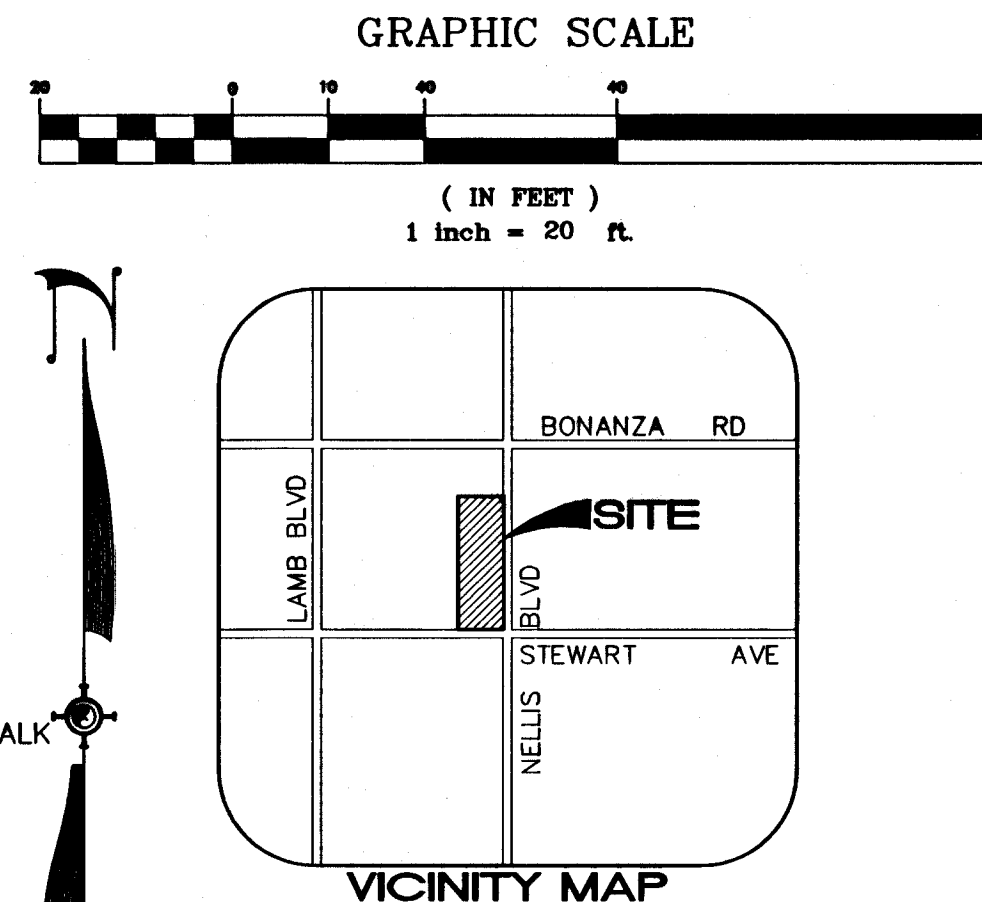
The subject site is located within Zone X, as shown on FIRM Community Panel Number 32003C2187, revised September 27, 2002, AND 32003C2195, revised September 27, 2002. Zone X is determined to be outside the 0.2% annual flood plain.

LEGEND

- CENTERLINE
- PROPERTY LINE
- - - RIGHT OF WAY
- - - EXISTING CONTOUR W/ELEVATION
- - - EXISTING CURB & GUTTER
- - - EXISTING GRADES
- TC EXISTING STREET LIGHT
- FL FLOW LINE
- AC ASPHALT CONCRETE
- SW SIDEWALK
- PROPOSED GRADE
- 0 FC 0' FACE OF CURB (AC AND SIDEWALK AT SAME ELEVATION)

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 (DS4170)
 ROBERT GELU, P.E. #17741 DATE 9-26-07

ITEM	DESCRIPTION	DIST (A)	DIST (B)
(A)	CONSTRUCT HANDICAP RAMP (CASE II) USING ARMOR TILE TRUNCATED DOMES EQUIVALENT TO C.C.U.S.D. NO. 235	8.00'	8.00'
(B)	CONSTRUCT HANDICAP RAMP (CASE II) USING ARMOR TILE TRUNCATED DOMES EQUIVALENT TO C.C.U.S.D. NO. 235	9.50'	4.50'

**GRADING NOTES**

ITEM	QUANTITY	PUBLIC	PRIVATE
1. CONSTRUCT 3" AC OVER 6" TYPE II AB PER SOILS REPORT	N/A	3" AC = 19,792 S.Y.	6" TYPE II = 3,299 C.Y.
2. CONSTRUCT "L" TYPE CURB PER STD DWG NO 216	N/A		1,330 L.F.
3. CONSTRUCT "A" TYPE CURB PER STD DWG NO 219	N/A		2,171 L.F.
4. CONSTRUCT HANDICAP RAMP (CASE II) PER C.C.S.D. NO. 235 (SEE NOTE THIS SHEET)	8 EA.		6 EA.
5. CONSTRUCT 3' WIDE VALLEY GUTTER PER DETAIL	N/A		1,109.93 L.F.
6. CONSTRUCT VARIABLE WIDTH 4" THICK SIDEWALK PER C.C.S.D. NO. 234	N/A		20,029 S.F.
7. CONSTRUCT 8' WIDE VALLEY GUTTER PER C.C.S.D. NO. 228	2,434 S.F.		N/A
8. CONSTRUCT 5' WIDE 4" THICK SIDEWALK PER C.C.S.D. NO. 234	825 S.F.		N/A
9. CONSTRUCT 2' WIDE SIDEWALK UNDERDRAIN PER C.C.S.D. NO. 236	2 EA.		N/A
10. SAWCUT, TRENCH AND BACKFILL PER C.C.S.D. NO. 504	618 S.Y.		N/A
11. INSTALL CLASS 150 - 6" D ₁₀ 12" RIP RAP	644 S.Y.		N/A
12. CONSTRUCT DEPRESSED CURB PER DETAIL	N/A		1 EA.
13. CONSTRUCT 2' WIDE VALLEY GUTTER PER DETAIL	N/A		1,109.93 L.F.
14. CONSTRUCT CURB TRANSITION PER DETAIL	N/A		N/A
15. INSTALL PRECAST BUMPER BLOCKS PER C.C.S.D. 238	N/A		27 EA.
16. REMOVE AND REPLACE EXISTING "L" TYPE CURB AND GUTTER PER C.C.S.D. 219	146 L.F.		N/A

GRADING NOTES

- ALL GRADING SHALL BE PERFORMED AS SHOWN ON THESE PLANS. NO DEVIATION FROM THESE PLANS IS PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL PAD AND ONSITE SWALE ELEVATIONS SHOWN ON THESE PLANS ARE ROUGH GRADE ONLY. ALL OTHER GRADES ARE FINISHED GRADES.
- A COPY OF THE APPROVED GRADING PLANS ARE TO BE ON THE JOB SITE THROUGHOUT THE ENTIRE COURSE OF CONSTRUCTION.
- ALL GRADING IS TO BE PERFORMED IN CONFORMANCE WITH THE GEOTECHNICAL REPORT AS FOLLOWS:
 TERRACON
 PROJ # 64055095
 DATED 07-22-2005
- NO STRUCTURE, VEGETATION, OR OBJECT OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

BASIS OF BEARING

NORTH 89°21'36" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 32, TOWNSHIP 20 SOUTH, RANGE 62 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREON ON FILE IN FILE 38, PAGE 11 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

PROJECT BENCHMARK

CLARK COUNTY BENCHMARK STATION 6002 33W4 BEING A 2" BRASS CAP REFERENCE MONUMENT IN TOP OF CURB AT THE NORTHEAST CORNER OF THE INTERSECTION OF NELLIS BOULEVARD AND STEWART AVENUE, NEAR THE P.C. OF NELLIS BOULEVARD.

PUBLISHED ELEV. 533.6817m (NAVD 88)
 PUBLISHED CONVERSION FACTOR: m * 3937/1200 = U.S. SURVEY FEET
 CONVERTED ELEV. 1750.92 U.S. SURVEY FEET

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig
 1-800-227-2600
 UNDERGROUND SERVICE (USA)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
Call before you Dig
 1-702-228-2828
 CALL 1-702-227-2828

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig
 1-702-455-7611
 1-702-228-6811
 LAS VEGAS AREA COMPUTERIZED UTILITY SYSTEM

PROFESSIONAL ENGINEER - STATE OF NEVADA
 ROBERT GELU
 EX-6-30-99
 CIVIL
 No. 17741
 9-26-07
 CWA #107V4960

SUMMIT ENGINEERING CORPORATION
 285 PLOT ROAD, SUITE A, LAS VEGAS, NV 89108
 PHONE (702) 252-9228 FAX (702) 252-9247

DESIGNED BY: ACADRIA
 DRAWN BY: ACADRIA
 CHECKED BY: ACADRIA
 DATE: Copyright SUMMIT ENG 2007

NEVADA
 CLARK COUNTY
 LAS VEGAS

CIVIL IMPROVEMENT PLANS FOR STEWART AND NELLIS GRADING PLAN

BY: APPD
 REV. DATE DESCRIPTION

SCALE: 1"=20'
 HORIZ: 1"=20'
 VERT: N/A

SHEET C9 OF 26
 JOB NO: J73093
 MIDWESTERN200307Frm03_03_03 GRADING - 857 AM 28-AUG-2007