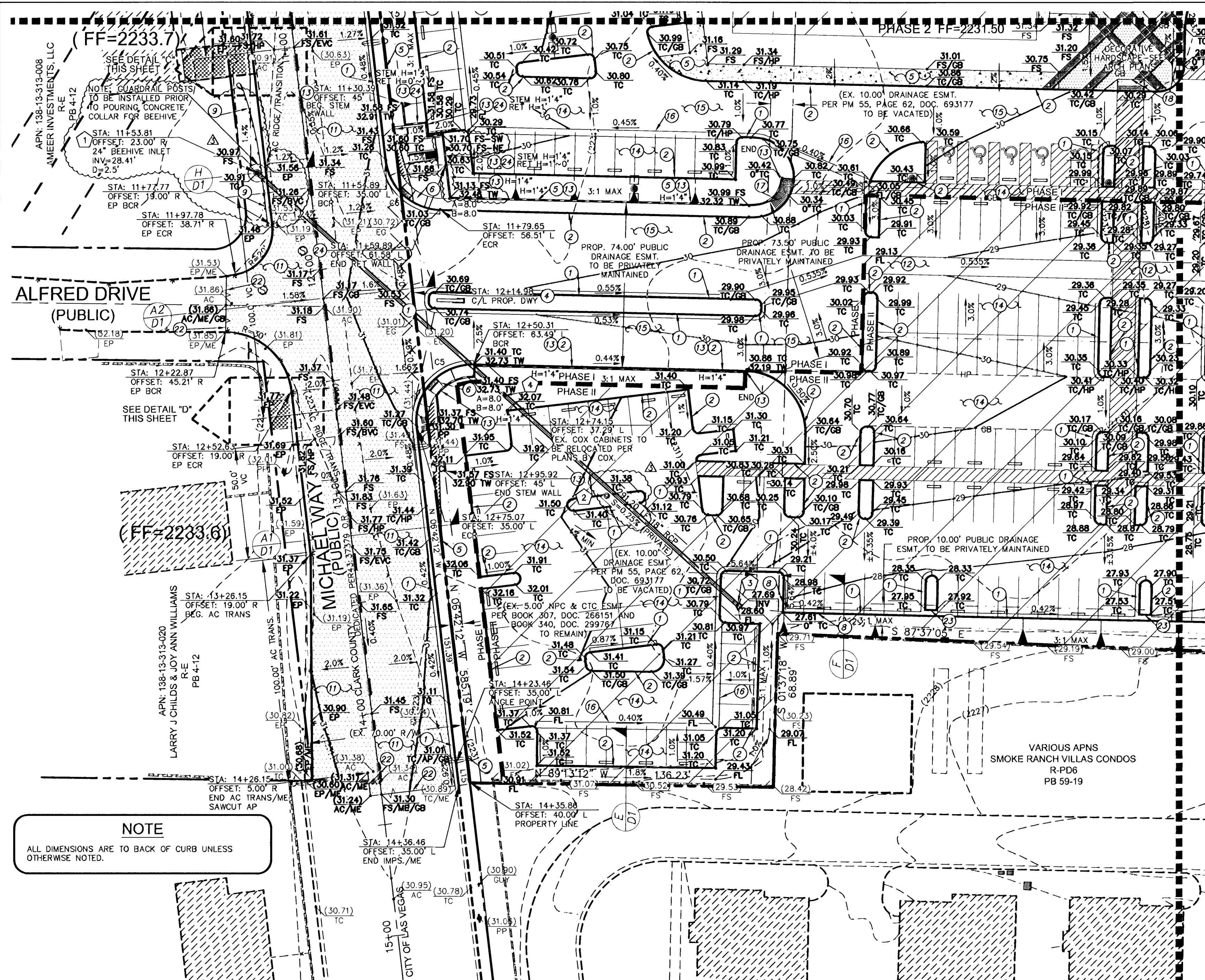




SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

FLOODZONE

THIS PROJECT IS LOCATED IN (NON-SHADED) FLOOD ZONE X PER FEMA FLOOD INSURANCE MAP NUMBER 32003C2155E, REVISED TO REFLECT LOMR DATED DECEMBER 31, 2003. FLOOD ZONE X IS DEFINED AS AN AREA BEING OUTSIDE THE 0.2% ANNUAL CHANCE FLOODING; OR AN AREA OF 1% ANNUAL CHANCE FLOODING WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE.

BENCHMARK

THE ELEVATION DATA SHOWN HEREON ARE U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. CLARK COUNTY VERTICAL CONTROL #2003, BASED UPON BENCHMARK NO. 75, STATION "SLVDD 1358" BEING A CITY OF LAS VEGAS PIN AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF MICHAEL WAY AND CLEARLY CORNER, NEAR THE PT OF MICHAEL WAY.

ELEVATION 679.849 METERS - PUBLISHED

ELEVATION 2,230.47 U.S. SURVEY FEET - COMPUTED

LEGAL DESCRIPTION

THAT PORTION OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA,

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS RECORD OF SURVEY IS NORTH 06° 42' 12" WEST AS DEFINED BY THE MONUMENTS SHOWN HEREON, BEING THE NORTH-SOUTH CENTER SECTION LINE OF SECTION 13 TOWNSHIP 20 SOUTH, RANGE 60 EAST, MOUNT DIABLO MERIDIAN, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, ESTABLISHED BY STRAIGHT LINE INTERSECTION BETWEEN OPPOSING ONE-QUARTER CORNERS PER FILE 02, PAGE 23 OF SURVEYS, SAME BEING THE CONTROL LINE OF MICHAEL WAY AS DERIVED BY FILE 02, PAGE 23 OF SURVEYS.

NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSERVED DURING CONSTRUCTION.

NOTE

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

EARTHWORK QUANTITIES

*NOTE: THESE QUANTITIES ARE APPROXIMATE AND ARE RAW VOLUMES ONLY. OVEREXCAVATION, SUBSIDENCE, SHRINKAGE, & BULKING FACTORS ARE NOT TAKEN INTO ACCOUNT.

CUT = 15,418 CY
FILL = 15,609 CY

*NOTE: THESE QUANTITIES ARE FOR ULTIMATE BUILD OUT.

ENGINEER'S NOTES

- ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY JA CESARE DATED OCTOBER 13, 2009, PROJECT NO. 091180, ADDENDUM DATED JUNE 22, 2010 & UPDATE DATED FEBRUARY 16, 2011.
- ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION. (IF APPLICABLE)
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
- SEE ARCHITECT'S PLANS FOR ALL HANDICAP ACCESSIBILITY INFORMATION, RAMP DETAILS, TRANSFORMERS, AND TRASH ENCLOSURE DETAILS. VERIFY BUILDING LAYOUTS AND DIMENSIONS WITH ARCHITECTURAL PLANS.
- CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
- SEE LANDSCAPE PLANS FOR LANDSCAPING AND ONSITE IRRIGATION.
- THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNLESS APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- ALL MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

DRAINAGE FACILITIES BONDABLE QUANTITIES LIST

ITEM	UNIT	PHASE I	PHASE II
24" BEEHIVE INLET	EA	1	-
18" STORM DRAIN	EA	294	-
2" S/W DRAINS	EA	7	-
"L" CURB	LF	448	158
"A" CURB	LF	453	1373
8" CROSS GUTTER	SF	4276	3791
14" SIDEWALK	LF	403	456
4" SIDEWALK	SF	858	-

PROPERTY LINE CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	78.43	280.00	153°28'22"	38.45
C2	37.49	25.00	85°55'09"	23.28
C3	115.12	45.00	144°57'54"	144.15
C4	13.91	14.50	54°57'54"	7.54

BACK OF CURB CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C5	42.77	25.00	98°01'00"	28.77
C6	35.77	25.00	81°59'00"	21.73
C7	44.99	30.00	85°55'09"	27.94
C8	73.29	275.00	151°16'11"	36.86
C9	39.23	25.00	89°54'17"	24.96
C10	39.27	25.00	90°00'00"	25.00
C11	39.27	25.00	90°00'00"	25.00
C12	39.25	25.00	89°57'33"	24.98
C13	18.71	19.50	54°57'54"	10.14
C14	0.05	40.50	0°04'25"	0.03
C15	25.01	40.50	35°23'14"	12.92
C16	87.27	40.50	123°27'51"	75.32

GRAPHIC SCALE

(IN FEET)
1 inch = 30 feet

KEY MAP

N.T.S.

VICINITY MAP

N.T.S.

CONSTRUCTION NOTES

- CONSTRUCT "L" TYPE CURB AND GUTTER PER STD DWG NO. 216.
- CONSTRUCT "A" TYPE CURB PER STD. DWG. NO. 219.
- CONSTRUCT 8" CONCRETE CROSS GUTTER PER STD DWG NO 228
- CONSTRUCT COMMERCIAL DRIVEWAY PER STD DWG NO 222A & 225
- CONSTRUCT 4" SIDEWALK PER STD DWG NO. 234.
- CONSTRUCT ADA RAMP WITH ARMOR TILE, TRUNCATED DOMES OR EQUIVALENT PER STD DWG NO 235, CASE 1
- CONSTRUCT 2" WIDE SIDEWALK UNDERDRAIN PER STD DWG NO. 236
- TRANSITION FROM 0" TO 6" CURB IN 10 FEET
- INSTALL GUARDRAIL PER NDOT DETAILS R-8.1.1, R-8.1.2 & R-8.4.1
- TYPE II GRAVEL
- CONSTRUCT 3.5" MIN AC OVER 8" TYPE II AB
- CONSTRUCT 8" WIDE CROSS GUTTER PER DETAIL 7 ON SHEET D1
- CONSTRUCT 14" SOLID GROUTED STEHWALL WITH TOP CAP & TOP BULK HEAD - SEE ARCHITECTURAL PLANS FOR DETAILS
- CONSTRUCT 2" MIN AC OVER 8" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 1 ON SHEET D1
- CONSTRUCT 2.5" MIN AC OVER 9" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 2 ON SHEET D1
- CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 3 ON SHEET D1
- CONSTRUCT ON-SITE RAMP PER DETAIL 4 ON SHEET D1.
- CONSTRUCT ON-SITE RAMP PER DETAIL 5 ON SHEET D1.
- CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLAN (BY OTHERS)
- CONSTRUCT 0" CURB
- CONSTRUCT HALF OF CUL-DE-SAC PER STD DWG NO. 212
- SAWCUT AND MATCH EXISTING PAVEMENT.
- CONSTRUCT 2" WIDE CONCRETE FLUME PER DETAIL 6 ON SHEET D1
- CONSTRUCT RETAINING WALL (H MAX=3'4") PER SEP. PERMIT BY OTHERS
- CONSTRUCT SCREEN WALL PER SEP. PERMIT BY OTHERS
- INSTALL 6" PVC ROOF DRAIN PIPE. TRANSITION TO 3"x12 1/2" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL
- INSTALL 4" PVC ROOF DRAIN PIPE. TRANSITION TO 3"x5" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL.
- INSTALL 3" PVC ROOF DRAIN PIPE THROUGH CURB
- ROOF DRAIN TO SPILL TO GRADE-SEE ARCH. PLANS FOR SPASH BLOCK DETAILS
- CONSTRUCT 3.5" MIN AC OVER EXISTING 8" MIN. TYPE II AGG. BASE PER LETTER BY JA CESARE DATED 8/26/11

STORM DRAIN CONSTRUCTION NOTES

- INSTALL 24" BEEHIVE INLET WITH CONCRETE APRON PER CC STD. DWG. NO. 416. SEE DETAIL 1 ON SHEET D2.
- INSTALL 18" CLASS III RCP STORM DRAIN PIPE
- INSTALL 18" RCP END SECTION PER NDOT DETAIL R-2.3.1. SEE DETAIL 2 ON SHEET D2.
- INSTALL CLEAN OUT

NOTE: SEE SHEET SD1 FOR STORM DRAIN PLAN & PROFILE

LEGEND

PROPERTY LINE	SCARP
STREET CENTERLINE	SLOPE
PROPOSED RETAINING WALL	FLOW LINE
PROPOSED BUILDING	EASEMENT LINE
EXISTING CONTOUR	HANDICAP PARKING
PROPOSED CONTOUR	FINISHED SURFACE
PROPOSED CURB & GUTTER	CURB FACE
PROPOSED CURB	CURB BACK
EXISTING CURB & GUTTER	EDGE OF PAVEMENT
EXISTING CURB	TOP OF GRATE
CONSTRUCTION NOTE	PROPOSED GRADE
CUT FILL TRANSITION	EXISTING GRADE
SAWCUT LIMITS	NEW AC PAVEMENT
PHASE LIMITS	PHASE II
AGENCY JURISDICTIONAL LIMITS	

DETAIL "C"

1"=10'

CROSS SECTION "C"

N.T.S.

DETAIL "D"

1"=10'

CROSS SECTION "D"

N.T.S.

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV# DS4380.

TREASEA WOLF, P.E. No. 17879

DATE 12-19-11

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

FOR PORTIONS WITHIN CLARK COUNTY ONLY

ACCEPTANCE OF PLANS FOR FILING BY

DATE 1/19/12

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

CLV DRAWING NO. 107V 5608-1

WIE

WALKER ENGINEERING, LLC
5765 S. RAINBOW BLVD.
SUITE 101
LAS VEGAS, NV 89118
TEL: 702.873.5197
FAX: 702.873.5346

CATALYST CONSULTING COMPANY

AGUILAS CFC CHURCH

PRECISE GRADING PLAN

SHEET 3 OF 4

PHASE I

CC HTE: 10-10763

SUBMITTAL NO. R3
DATE: DECEMBER 19, 2011
WE PROJECT NO.

1167.00

AGENCY NO.
CLV:37715

G3

12 OF 27 SHEETS

2012-12-12