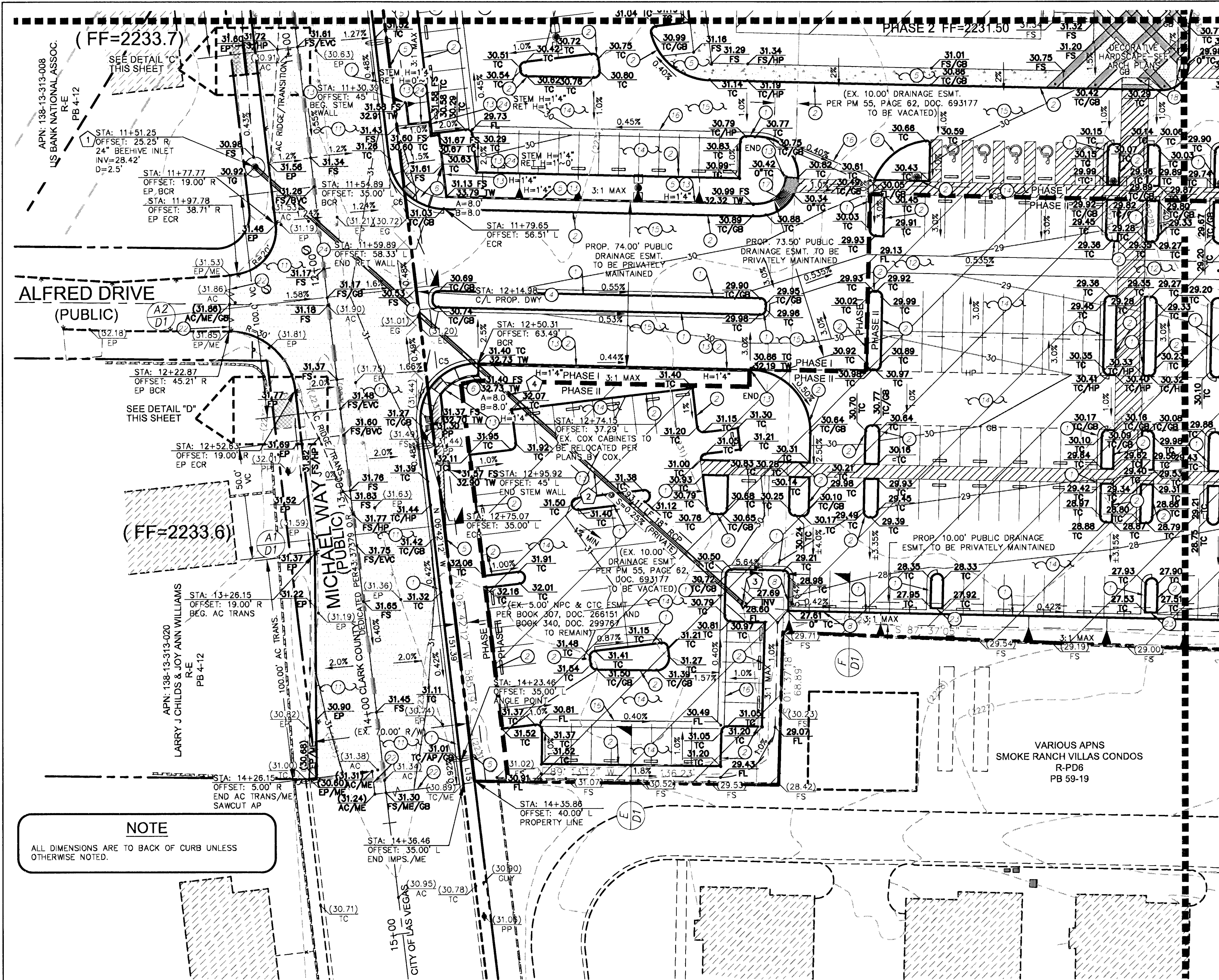




SIGHT VISIBILITY ZONES NOTE

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 LOWR 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 4 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 V2003, BASED UPON BENCHMARK NO. 75, STATION "SLV00 1356" BEING A CITY OF LAS VEGAS PIN AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF MICHAEL WAY AND CLEARLY COURT, 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.

EARTHWORK QUANTITIES

*NOTE: THESE QUANTITIES ARE APPROXIMATE AND ARE FOR 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.

CURVE & LINE DATA

LINE	LENGTH	BEARING
L1	39.63	S012°20'W
L2	52.99	S87°37'05"E

PROPERTY LINE CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	76.43	280.00	15°38'22"	38.45
C2	37.49	25.00	85°55'09"	23.28
C3	115.12	45.50	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	89°01'00"	28.77
C6	35.77	25.00	81°59'00"	21.73
C7	44.99	30.00	85°52'09"	27.94
C8	73.29	275.00	151°11'	36.86
C9	39.23	25.00	89°54'12"	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	94°57'54"	10.14
C14	4.05	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

BACK OF CURB LINE TABLE		
LINE	LENGTH	BEARING
L3	28.99	N89°36'13"W
L4	5.00	S011°42'W
L5	5.00	S012°18'W
L6	9.99	S88°44'13"E
L7	18.61	S88°41'12"E
L8	5.01	S79°21'54"E
L9	5.00	S70°21'54"E
L10	5.00	S011°8'48"W
L11	5.00	S011°8'48"W
L12	10.00	S88°55'51"E
L13	18.32	S87°37'05"E
L14	24.05	S87°37'05"E
L15	10.00	N06°53'37"W

ENGINEER'S NOTES

- ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY JA CESARE DATED OCTOBER 13, 2009, PROJECT NO. 09.1180, 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 UNTIL 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	-
1" CURB	LF	448	158
8" CURB	LF	453	1373
8" CROSS GUTTER	SF	4278	3791
14" STEM WALL	LF	403	456
4" SIDEWALK	SF	858	-

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
-----	SAW CUT LIMITS	NEW AC PAVEMENT
-----	PHASE LIMITS	PHASE II
-----	AGENCY JURISDICTIONAL LIMITS	

GRAPHIC SCALE

(IN FEET)

1 inch = 30 feet

MATCHLINE SEE SHEET G4

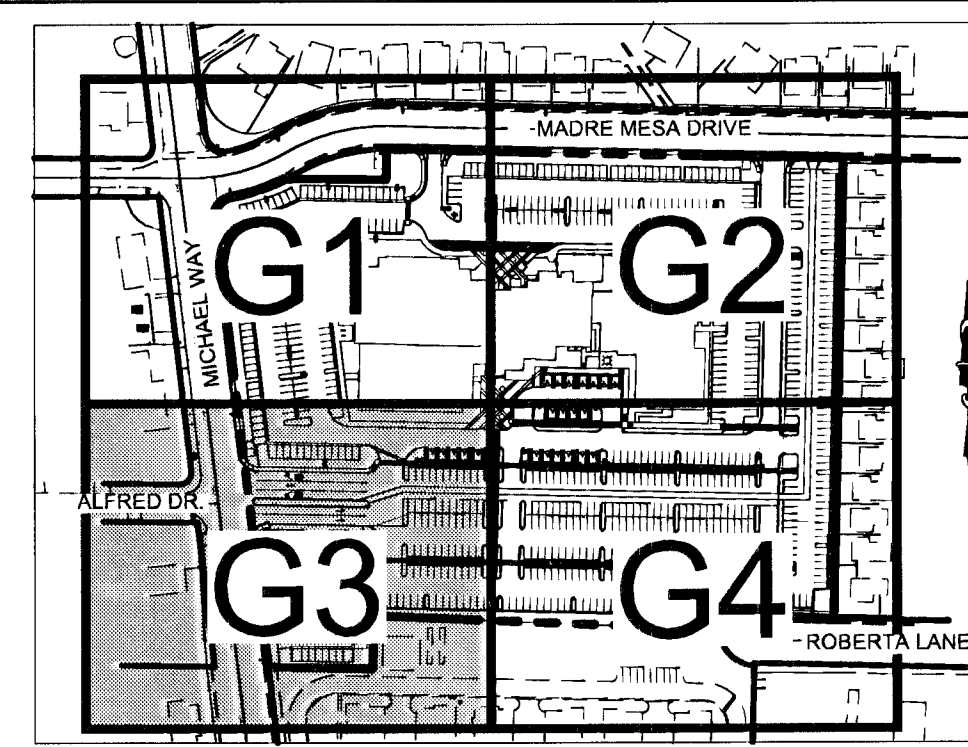
NO	CONSTRUCTION NOTES
1	CONSTRUCT "L" TYPE CURB AND GUTTER PER STD DWG NO. 216.
2	CONSTRUCT "A" TYPE CURB PER STD. DWG. NO. 219.
3	CONSTRUCT 8" CONCRETE CROSS GUTTER PER STD DWG NO 228
4	CONSTRUCT COMMERCIAL DRIVEWAY PER STD DWG NO 222A & 225
5	CONSTRUCT 4" SIDEWALK PER STD DWG NO. 234.
6	CONSTRUCT ADA RAMPS WITH ARMOR TILE, TRUNCATED DOMES OR EQUIVALENT PER STD DWG NO 235, CASE 1
7	CONSTRUCT 2" WIDE SIDEWALK UNDERDRAIN PER STD DWG NO. 236
8	TRANSITION FROM 0" TO 6" CURB IN 10 FEET
9	TYPE I GRAVEL
10	TYPE II GRAVEL
11	CONSTRUCT 3.5" MIN AC OVER 4" TYPE II AB OVER 6.5" TYPE I AB
12	CONSTRUCT 8" WIDE CROSS GUTTER PER DETAIL 7 ON SHEET D1
13	CONSTRUCT 1" PVC ROOF DRAIN PIPE. TRANSITION TO 3" 1/2 1/2" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL.
14	CONSTRUCT 2" MIN AC OVER 8" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 1 ON SHEET D1
15	CONSTRUCT 2.5" MIN AC OVER 9" TYPE II AGG. BASE PER SOILS REPORT BY JA CESARE. SEE DETAIL 2 ON SHEET D1
16	CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 3 ON SHEET D1
17	CONSTRUCT ON-SITE RAMP PER DETAIL 4 ON SHEET D1.
18	CONSTRUCT ON-SITE RAMP PER DETAIL 5 ON SHEET D1.
19	CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLAN (BY OTHERS)
20	CONSTRUCT 0" CURB
21	CONSTRUCT HALF OF CUL-DE-SAC PER STD DWG NO. 212
22	SAWCUT AND MATCH EXISTING PAVEMENT.
23	CONSTRUCT 2" WIDE CONCRETE FLUME PER DETAIL 6 ON SHEET D1
24	CONSTRUCT RETAINING WALL (H MAX=3'4") PER SEP. PERMIT BY OTHERS
25	CONSTRUCT SCREEN WALL PER SEP. PERMIT BY OTHERS
26	INSTALL 6" PVC ROOF DRAIN PIPE. TRANSITION TO 3" 1/2 1/2" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL.
27	INSTALL 4" PVC ROOF DRAIN PIPE. TRANSITION TO 3" 1/2 1/2" RECTANGULAR PIPE THROUGH CURB. ALHAMBRA A-480 ADAPTOR OR EQUAL.
28	INSTALL 3" PVC ROOF DRAIN PIPE THROUGH CURB
29	ROOF DRAIN TO SPILL TO GRADE-SEE ARCH. PLANS FOR SPASH BLOCK DETAILS.

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

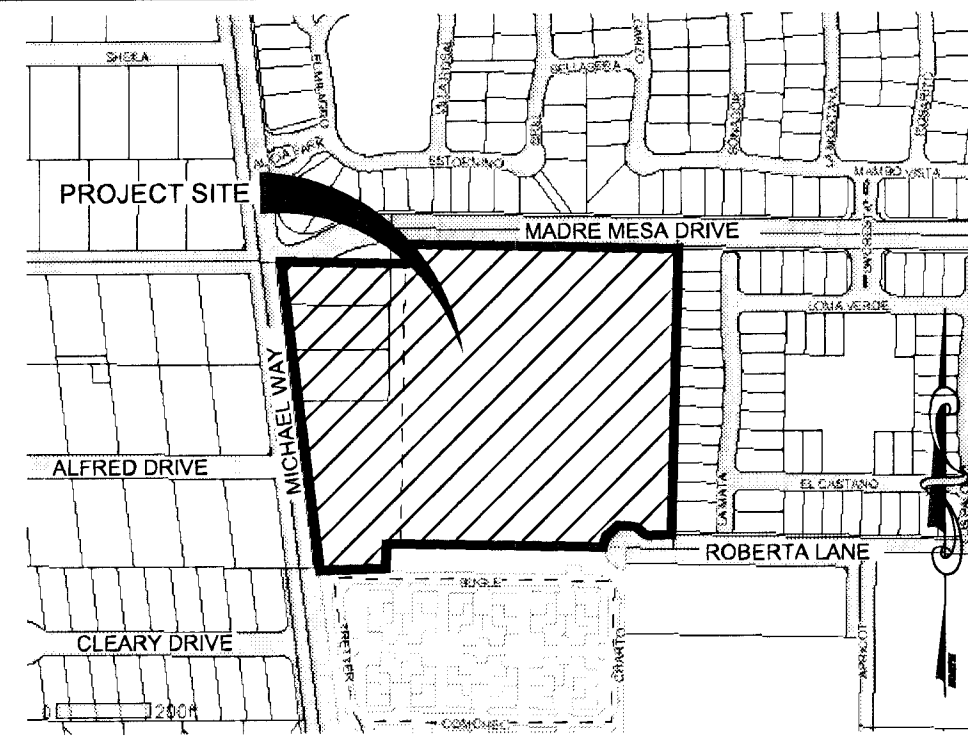
NOTE: SEE SHEET SD1 FOR STORM DRAIN PLAN & PROFILE

LEGEND

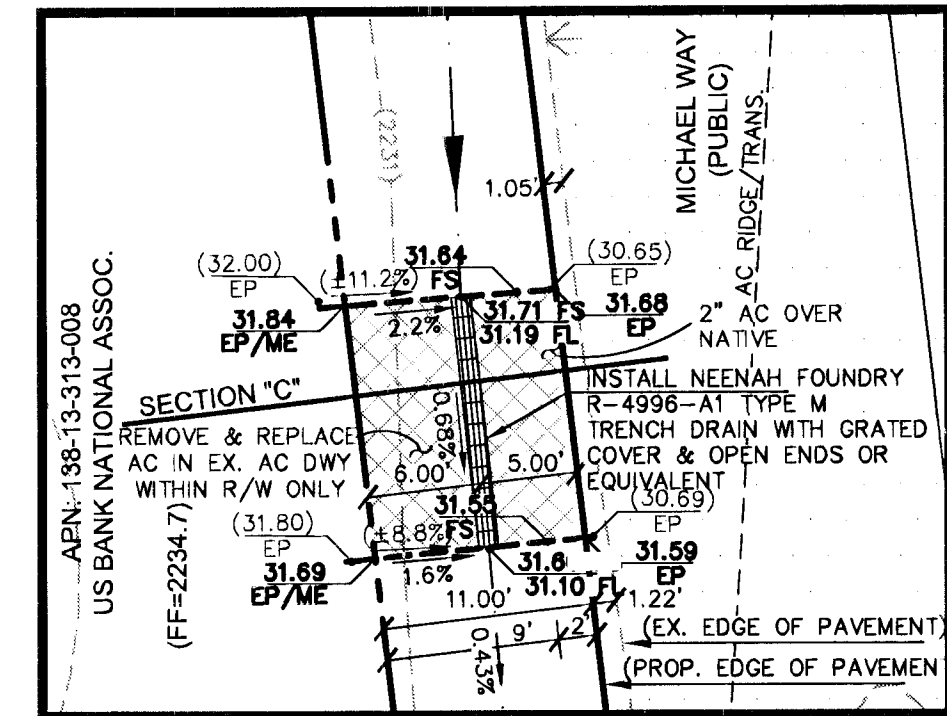
-----	PROPERTY LINE	SCARP
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-----	PROPOSED CURB & GUTTER	CURB FACE
-----	PROPOSED CURB	CURB BACK
-----	EXISTING CURB & GUTTER	EDGE OF PAVEMENT
-----	EXISTING CURB	TOP OF GRATE
-----	CONSTRUCTION NOTE	PROPOSED GRADE
-----	CUT FILL TRANSITION	EXISTING GRADE
-----	SAW CUT LIMITS	NEW AC PAVEMENT
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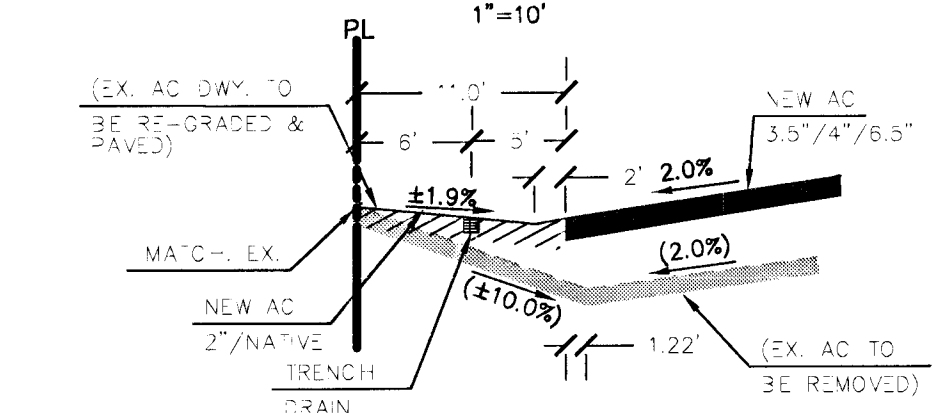
KEY MAP
N.T.S.



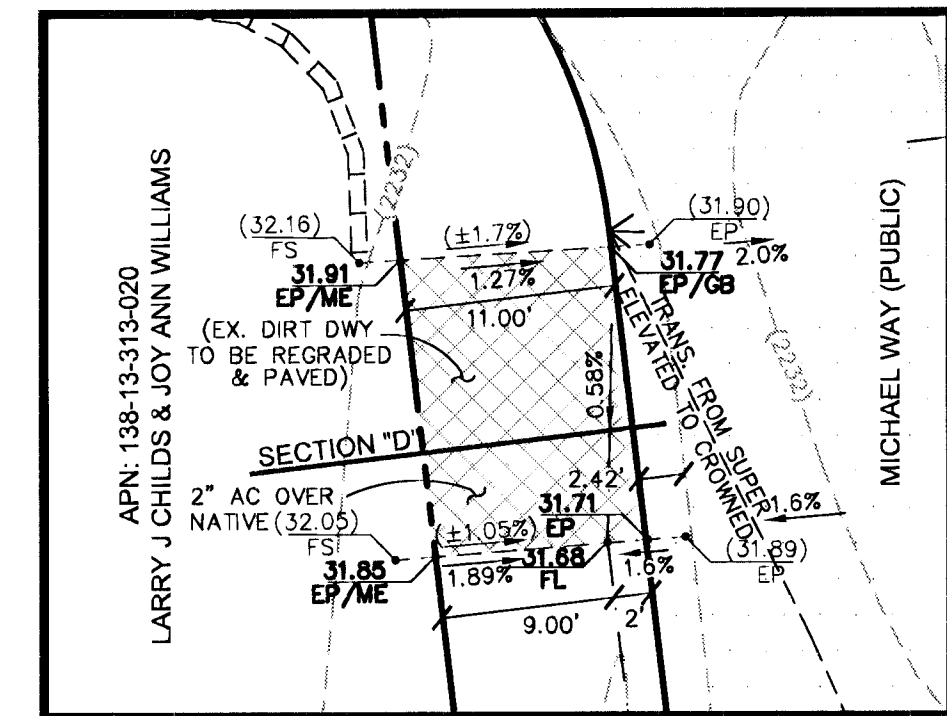
VICINITY MAP
N.T.S.



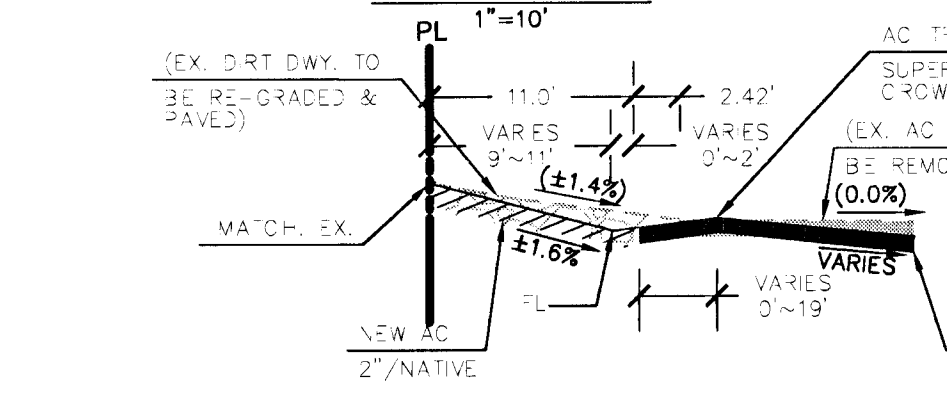
DETAIL "C"



CROSS SECTION "C"



DETAIL "D"



CROSS SECTION "D"

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# 054560.

TREASEA WOLF, P.E. No. 17879

DATE: 3-25-11

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

FOR PORTIONS WITHIN CLARK COUNTY ONLY

ACCEPTANCE OF PLANS FOR FILING BY

Ann Barber 3-25-11

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. 107V5608-1

W E

WALKER ENGINEERING, LLC
5785 S. RAINBOW BLVD.
SUITE 101
LAS VEGAS, NV 89118
TEL: 702.873.5197
FAX: 702.873.5346

APPROVAL

DATE

INITIALS

REVISIONS

NO.	DESCRIPTION	DATE	REV
1	PRECISE GRADING PLAN		
2	SHEET 3 OF 4		
3	PHASE I		

CATALYST CONSULTING COMPANY
AGUILAS CFC CHURCH

CC HTE: 10-10763
SUBMITTAL NO. FINAL
DATE: MARCH 22, 2011
WE PROJECT NO.
1167.00
AGENCY NO.
CLV:37715
SHEET NO.:
G3
12 OF 27 SHEETS