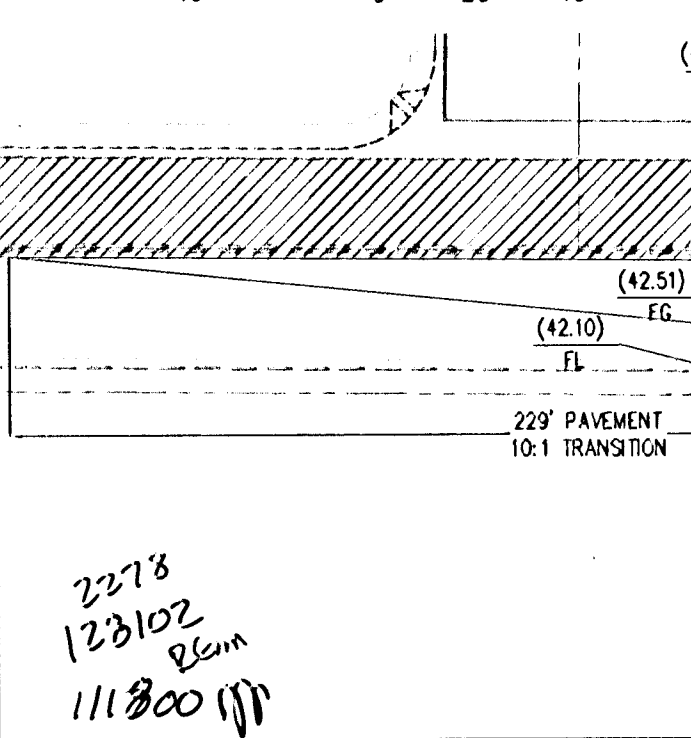
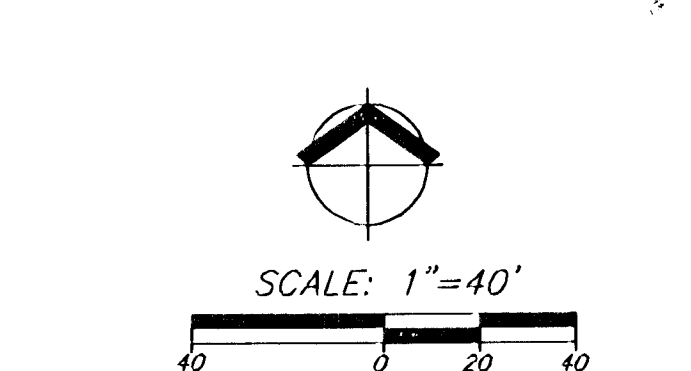


ESTIMATED QUANTITIES PUBLIC 3" ASPHALT PAVING 2382 SY TYPE II AGGREGATE BASE 538 CY 1" TYPE CURB AND GUTTER 552 LF 4" TYPE CURB 301 LF 4" SIDEWALK 3332 SF 8" CROSS GUTTER 1024 SF 3" VALLEY GUTTER 20 LF 6"x3" RCB STORM DRAIN 301 LF 6"x4" RCB STORM DRAIN 49 LF 24" RCP STORM DRAIN 88 LF 60" STORM DRAIN MANHOLE 2 EA MODIFIED TYPE "CM" DROP INLET 5 EA PUBLIC DRAINAGE EASEMENTS NDOT TYPE II HEADWALL 1 EA CONCRETE DRAINAGE FLUMES 92 CY RIP RAP PAD D50=12" T=24" 15340 SF TYPE II AGGREGATE BASE 646 CY 1" CHANNEL 816 LF 3" CUT-OFF WALL 6 EA FLOOD/RETAINING WALL 720 LF

STORM DRAIN DATA 48" MANHOLE STA 17+99.13 RIM=2439.0 INV IN=2433.98 INV OUT=2432.78 48" MANHOLE STA 21+00.09 RIM=2435.3 INV THRU=2430.56 INV IN=2431.76 MODIFIED TYPE "CM" DROP INLET STA 17+99.13 L=20' GRATE=20' TC=2439.12 INV OUT=2434.17 MODIFIED TYPE "CM" DROP INLET STA 18+29.13 L=20' GRATE=20' TC=2438.70 INV OUT=2433.94 MODIFIED TYPE "CM" DROP INLET STA 19+87.59 L=20' GRATE=20' TC=2436.67 INV OUT=2432.77 MODIFIED TYPE "CM" DROP INLET STA 20+17.59 L=20' GRATE=20' TC=2436.30 INV OUT=2432.55 MODIFIED TYPE "CM" DROP INLET CALGARY CROSSING STA 11+19.05 L=20' GRATE=20' TC=2435.78 INV OUT=2432.65

FLOOD ZONE DESCRIPTION: THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 3200051734 E. CLARK COUNTY, NEVADA DATED SEPTEMBER 27, 2002. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). BASIS OF BEARING: NORTH 89°44'54" WEST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 09, TOWNSHIP 19 SOUTH, RANGE 60 EAST, AS SHOWN BY MAP THEREOF ON FILE IN FILE 73 OF SURVEYS, PAGE 14, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

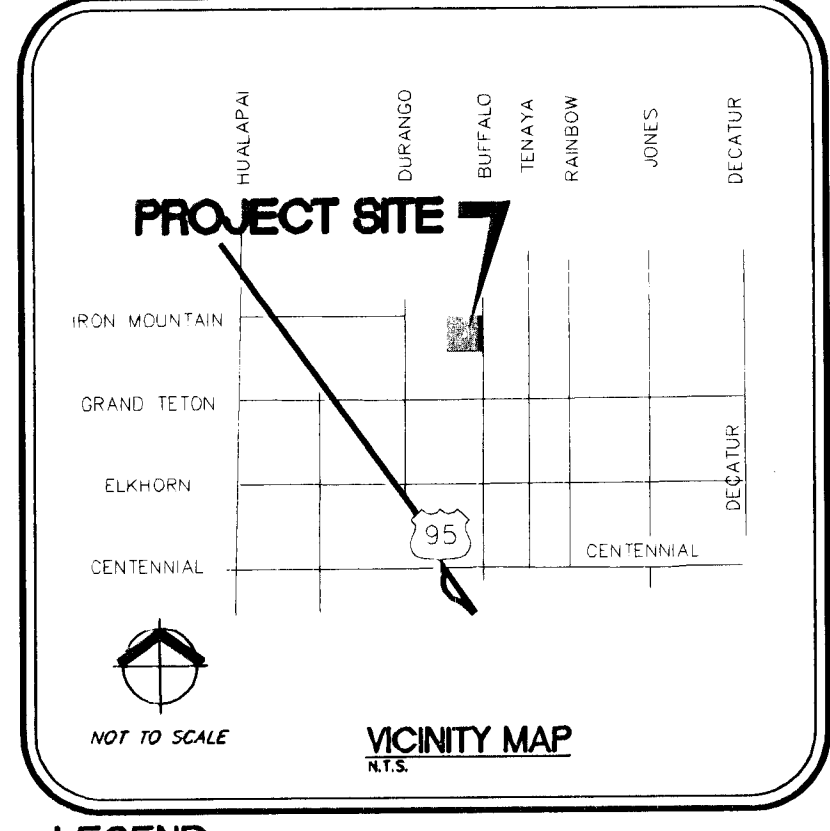
BENCH MARK: CLARK COUNTY VERTICAL CONTROL STATION "11V90 9NES" BEING A BLM BRASS CAP AT BUFFALO DRIVE AND IRON MOUNTAIN ROAD. ELEVATION: FEET = 2443.33' (NAVD88) METERS = 744.729 M (NAVD88)



Call before you dig 1-800-227-2600

UNDERGROUND SERVICE (USA)

1-702-455-7511 1-702-229-6611



LEGEND

---	PROPERTY LINE / RIGHT-OF-WAY
---	PROPOSED "L" CURB AND GUTTER
---	EXISTING CURB AND GUTTER
---	EX. WROUGHT IRON FENCE
---	EX. RETAINING WALL
---	PROPOSED RETAINING WALL
---	EDGE OF PAVEMENT
---	CROSS GUTTER
---	PROPOSED SIGHT VISIBILITY ZONE NO OBSTRUCTIONS GREATER THAN 30" IN HEIGHT. FOR MORE INFORMATION SEE C.C.U.A.S.D. DWG. NO. 201.2
---	EXISTING A.C. PAVEMENT AREA
---	FUTURE ELEVATION
---	PROPOSED ELEVATION
---	EXISTING ELEVATION
---	TC TOP OF CURB
---	FG FINISHED GRADE
---	TW TOP OF WALL
---	FL FLOW LINE
---	HP HIGH POINT
---	GB GRADE BREAK
---	FF FINISH FLOOR
---	TB TOP OF BERM
---	TF TOP OF FOOTING
---	TW TOP OF WALL
---	BLOCK NUMBER
---	SECTION OR DETAIL IDENTIFIER
---	SHEET ON WHICH SECTION OR DETAIL IS SHOWN

- CONSTRUCTION NOTES:
1. SAWCUT AND MATCH EXISTING CURB AND GUTTER, SIDEWALK, AND AC PAVEMENT.
 2. CONSTRUCT 2" AC PAVEMENT OVER 10" TYPE II AGGREGATE BASE.
 3. CONSTRUCT 3" AC PAVEMENT OVER 10" TYPE II AGGREGATE BASE.
 4. CONSTRUCT "L" CURB PER CCAUSD #216.
 5. CONSTRUCT 10" TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL 11, SHEET D-1.
 6. CONSTRUCT 3" TRANSITION FROM "L" CURB TO DEPRESSURED CURB PER DETAIL 12, SHEET D-1.
 7. CONSTRUCT DEPRESSURED CURB PER DETAIL 12, SHEET D-1.
 8. CONSTRUCT 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
 9. CONSTRUCT 30" ROLL CURB PER CCAUSD #217A.
 10. CONSTRUCT 6" CONCRETE "U" CHANNEL PER DETAIL 10, SHEET D-1.
 11. CONSTRUCT 5" WIDE LANDSCAPE. SEE DETAILS 1 & 2, SHEET D-1.
 12. INSTALL RIP RAP D50=8" T=16" OVER 12" TYPE II BEDDING.
 13. INSTALL RIP RAP D50=12" T=24" OVER 12" TYPE II BEDDING.
 14. INSTALL 6" X 4" RCB STORM DRAIN PER NDOT STANDARD DETAIL B.201.2.
 15. CONSTRUCT MODIFIED TYPE "CM" DROP INLET PER DETAIL ON SHEET D-2.
 16. CONSTRUCT TYPE II HEADWALL W/ 0° SKEW PER NDOT STANDARD DETAIL B.201.4, B.201.4.1, B.201.11, AND B.201.19 SEE ON SHEETS D-3 AND D-4.
 17. INSTALL 18" RCP CLASS III STORM DRAIN PIPE AND CONNECT TO 6"x4" RCB STORM DRAIN PER DETAIL 32, SHEET D-4.
 18. CONSTRUCT 8-INCH WIDE MINIMUM RETAINING WALL 4" SOLID GROUTED COURSES ABOVE FINISH GRADE.
 19. INSTALL 6"x3" RCB STORM DRAIN PER NDOT STANDARD DETAIL B.201.2. SEE ON SHEET D-3.
 20. INSTALL "A" CURB PER CCAUSD #219.
 21. INSTALL 48" STORM DRAIN MANHOLE PER DETAIL 20 ON SHEET D-2.
 22. INSTALL 5" "U" CHANNEL PER DETAIL 17, SHEET D-1.
 23. CONSTRUCT CONCRETE DRAINAGE FLUME TRANSITION STRUCTURE TO BE 5" WIDE 0" MOUTH & TRANSITION INTO 3" "U" CHANNEL PER DETAIL 12.4 ON SHEET D-2.
 24. INSTALL SHALLOW 48" STORM DRAIN MANHOLE PER DETAIL 20 & DETAIL 22 ON SHEET D-2 PER DCSWCS #50-10.
 25. INSTALL 30" WIDE WROUGHT IRON FENCE PER DETAIL 18 ON SHEET D-1.
 26. INSTALL 16" WIDE RESIDENTIAL DRIVEWAY PER CCAUSD #223.
 27. INSTALL 35" WIDE WROUGHT IRON FENCE PER DETAIL 21 ON SHEET D-2.
 28. INSTALL 14.5" WROUGHT IRON MAINTENANCE GATE FOR DRAINAGE CHANNEL ACCESS PER CLV DETAIL 26, SHEET D-3.
 29. INSTALL 3" CUT-OFF WALL.
 30. CONSTRUCT SIDEWALK PER USD #234.
 31. CONSTRUCT SIDEWALK RAMP PER USD #235 CASE 1 WITH TRUNCATED DOMES BY ARMOR TILE OR EQUIVALENT, "A"=8" AND "B"=8" UNLESS OTHERWISE SPECIFIED.
 32. CONSTRUCT 6" THICK CONCRETE SIDE SLOPE EMBANKMENT WITH NO 4 REINFORCING STEEL BARS AT 12" ON CENTER EACH WAY.

CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED TECHNICAL DRAWING STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS (DS3796)

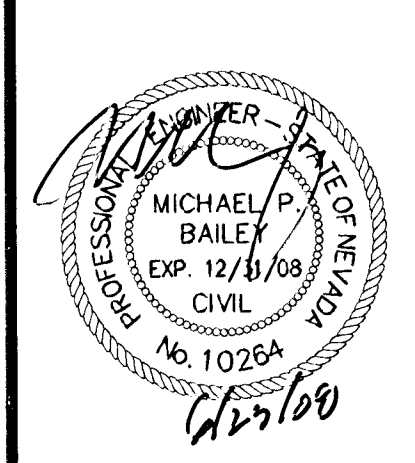
Michael P. Bailey, P.E. #10264

DATE

W R G
DESIGN
3011 W. HORIZON RIDGE PKWY, HENDERSON, NEVADA 89052
Tel: 702.990.9300 Fax: 702.990.9305
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

GRADING PLAN
CALGARY CROSSING
BARTON K. MAYBIE
CITY OF LAS VEGAS, NEVADA

NO.	DATE	DESCRIPTION
1	3-4-08	REVISED PER CITY COMMENTS
2	4-10-08	REVISED PER CITY COMMENTS
3	5-13-08	REVISED PER CITY COMMENTS
4	6-10-08	REVISED PER CITY COMMENTS
5	7-10-08	REVISED PER CITY COMMENTS
6	8-10-08	REVISED PER CITY COMMENTS
7	9-10-08	REVISED PER CITY COMMENTS
8	10-10-08	REVISED PER CITY COMMENTS
9	11-10-08	REVISED PER CITY COMMENTS
10	12-10-08	REVISED PER CITY COMMENTS



PROJECT # 1306810800
DATE 10/9/10
DRAWN I.SJP/NL
DESIGNED I.RS
CHECKED I.MPB
SHEET TITLE
GRADING
SHEET NUMBER
G1
3 OF 14 SHEETS