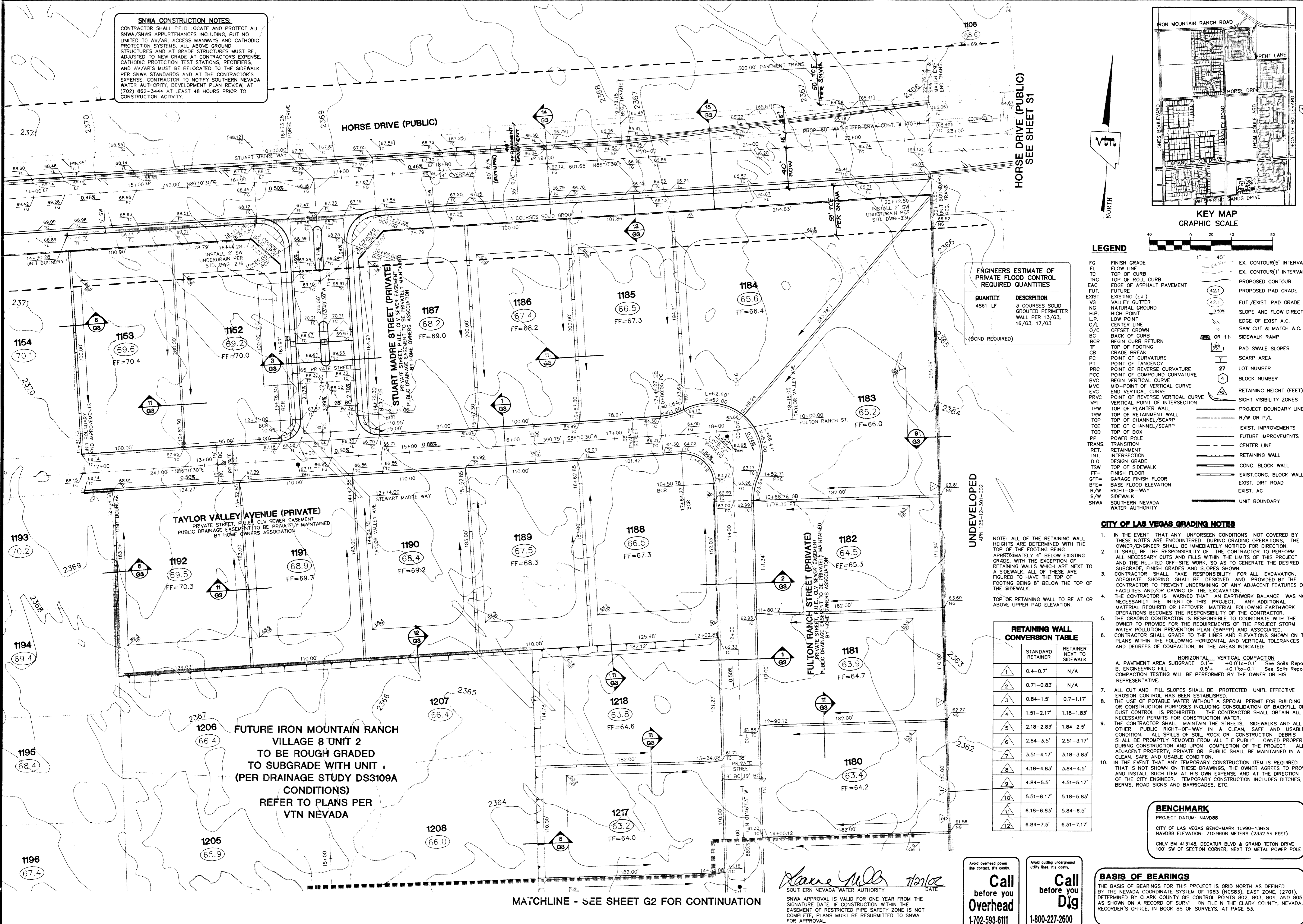


SNWA CONSTRUCTION NOTES:
 CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL SNWA/SNWS APPURTENANCES INCLUDING, BUT NOT LIMITED TO AV/AR, ACCESS MAINWAYS AND CATHODIC PROTECTION SYSTEMS. ALL ABOVE GROUND STRUCTURES AND AT GRADE STRUCTURES MUST BE ADJUSTED TO NEW GRADE AT CONTRACTOR'S EXPENSE. CATHODIC PROTECTION TEST STATIONS, RECTIFIERS, AND AV/AR'S MUST BE RELOCATED TO THE SIDEWALK PER SNWA STANDARDS AND AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO NOTIFY SOUTHERN NEVADA WATER AUTHORITY DEVELOPMENT PLAN REVIEW, AT (702) 862-3444 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.



ENGINEERS ESTIMATE OF PRIVATE FLOOD CONTROL REQUIRED QUANTITIES

QUANTITY	DESCRIPTION
4861-LF	3 COURSES SOLID GROUTED PERIMETER WALL PER 13/03, 16/G3, 17/G3

(BOND REQUIRED)

RETAINING WALL CONVERSION TABLE

STANDARD RETAINER	RETAINER NEXT TO SIDEWALK
1	0.4-0.7' N/A
2	0.71-0.83' N/A
3	0.84-1.5' 0.7-1.17'
4	1.51-2.17' 1.18-1.83'
5	2.18-2.83' 1.84-2.5'
6	2.84-3.5' 2.51-3.17'
7	3.51-4.17' 3.18-3.83'
8	4.18-4.83' 3.84-4.5'
9	4.84-5.5' 4.51-5.17'
10	5.51-6.17' 5.18-5.83'
11	6.18-6.83' 5.84-6.5'
12	6.84-7.5' 6.51-7.17'

LEGEND

FG	FINISH GRADE	EX. CONTOUR(5' INTERVAL)
FL	FLOW LINE	EX. CONTOUR(1' INTERVAL)
TC	TOP OF CURB	PROPOSED CONTOUR
TRC	TOP OF ROLL CURB	PROPOSED PAD GRADE
EAC	EDGE OF ASPHALT PAVEMENT	FUT./EXIST. PAD GRADE
FUT.	FUTURE	SLOPE AND FLOW DIRECTION
EXIST	EXISTING (L.A.)	EDGE OF EXIST. A.C.
NG	NATURAL GROUND	SAW CUT & MATCH A.C.
H.P.	HIGH POINT	SIDEWALK RAMP
L.P.	LOW POINT	PAD SWALE SLOPES
C/P	CENTER LINE	SCARP AREA
O/C	OFFSET CROWN	LOT NUMBER
BC	BACK OF CURB	BLOCK NUMBER
BCR	BEGIN CURB RETURN	RETAINING HEIGHT (FEET)
GB	GRADE BREAK	SIGHT VISIBILITY ZONES
PC	POINT OF CURVATURE	PROJECT BOUNDARY LINE
PT	POINT OF TANGENCY	R/W OR P/L
PRC	POINT OF REVERSE CURVATURE	EXIST. IMPROVEMENTS
PCC	POINT OF COMPOUND CURVATURE	FUTURE IMPROVEMENTS
BF	BEGIN VERTICAL CURVE	CENTER LINE
MVC	MID-POINT OF VERTICAL CURVE	RETAINING WALL
EVC	END VERTICAL CURVE	CONC. BLOCK WALL
PRVC	POINT OF REVERSE VERTICAL CURVE	EXIST. CONC. BLOCK WALL
PTI	POINT OF INTERSECTION	EXIST. DIRT ROAD
TPW	TOP OF PLANTER WALL	EXIST. AC
TRW	TOP OF RETAINMENT WALL	UNIT BOUNDARY
TOP	TOP OF CHANNEL/SCARP	
TOE	TOP OF CHANNEL/SCARP	
TOB	TOP OF BOX	
PP	POWER POLE	
TRANS.	TRANSITION	
RET.	RETAINMENT	
INT.	INTERSECTION	
D.G.	DESIGN GRADE	
TSW	TOP OF SIDEWALK	
FF	FINISH FLOOR	
GFF	GARAGE FINISH FLOOR	
BFE	BASE FLOOD ELEVATION	
R/W	RIGHT-OF-WAY	
S/W	SIDEWALK	
SNWA	SOUTHERN NEVADA WATER AUTHORITY	

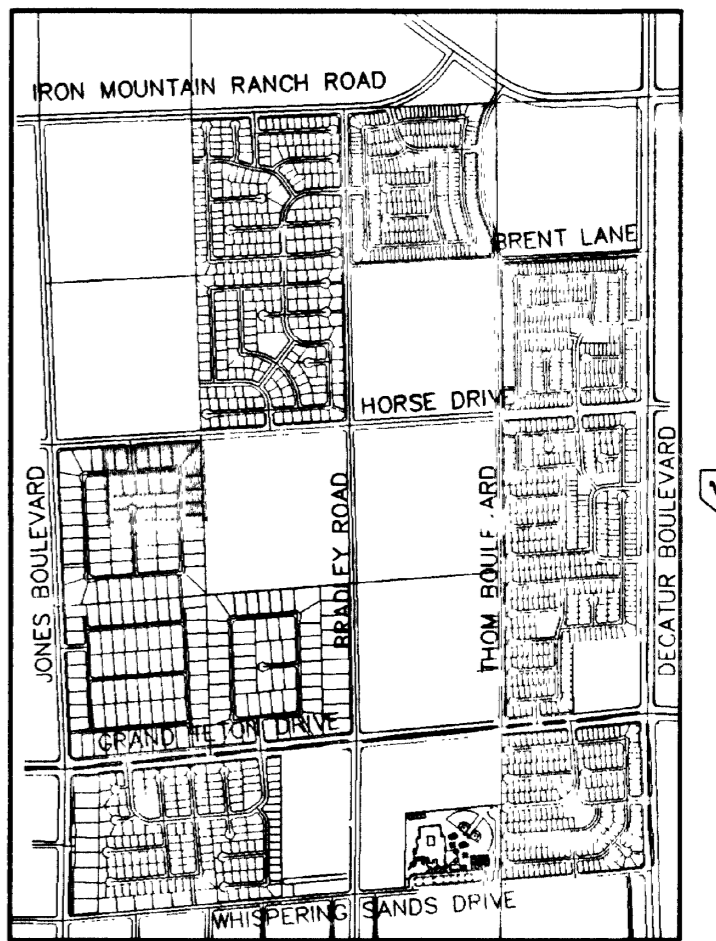
- CITY OF LAS VEGAS GRADING NOTES**
- IN THE EVENT THAT ANY UNFORSEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
 - CONTRACTOR SHALL TAKE RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
 - THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED.
 - CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

HORIZONTAL	VERTICAL COMPACTION
A. PAVEMENT AREA SUBGRADE	0.1+ +0.0' to -0.1'
B. ENGINEERING FILL	0.5+ +0.1' to -0.1'

 COMPACTON TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
 - ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
 - THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
 - THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM ALL T.E.PUBLIC OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
 - IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

BENCHMARK
 PROJECT DATUM: NAVD88
 CITY OF LAS VEGAS BENCHMARK 11900-3485
 NAVD88 ELEVATION: 710.9608 METERS (2332.54 FEET)
 ONLY SW 413148, DECATUR BLVD & GRAND TETON DRIVE
 100' SW OF SECTION CORNER, NEXT TO METAL POWER POLE

BASIS OF BEARINGS
 THE BASIS OF BEARINGS FOR THIS PROJECT IS GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, (2701), DETERMINED BY CLARK COUNTY GIS CONTROL POINTS 802, 804, AND 805, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE, IN BOOK 88 OF SURVEYS, AT PAGE 53.



KEY MAP
 GRAPHIC SCALE
 1" = 40'

CITY OF LAS VEGAS
 2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148
 PH. (702) 873-7550 FAX (702) 362-2597

KB HOME
 750 PILOT ROAD, SUITE F
 LAS VEGAS, NV 89119
 (702) 614-2500

IRON MOUNTAIN RANCH VILLAGE 8 UNIT 1

GRADING PLAN

DESIGNED BY: JDP
CHECKED BY: KEN
PROJECT NO.: 107Y-4604-8-1

SCALE: 1"=40' HORIZ. VERT. NA

PROFESSIONAL ENGINEER STATE OF NEVADA
 KEN NICHOLSON
 LICENSE NO. 70559
 EXPIRES 12-31-03

REVISION

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