

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, 803, 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.

BENCHMARK

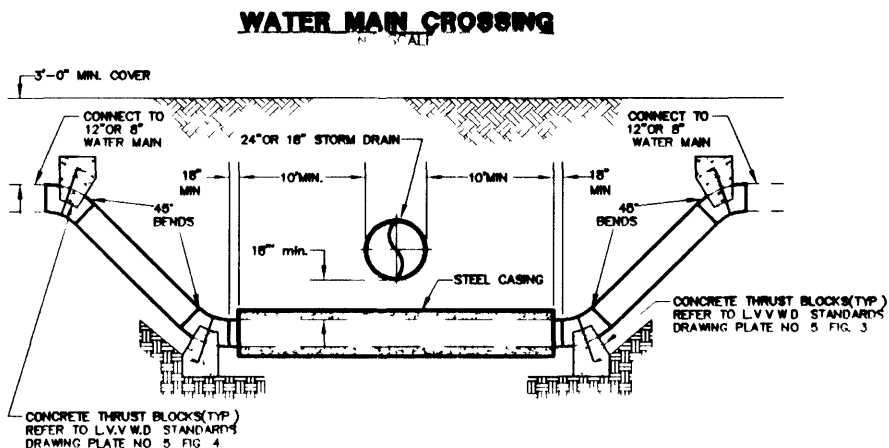
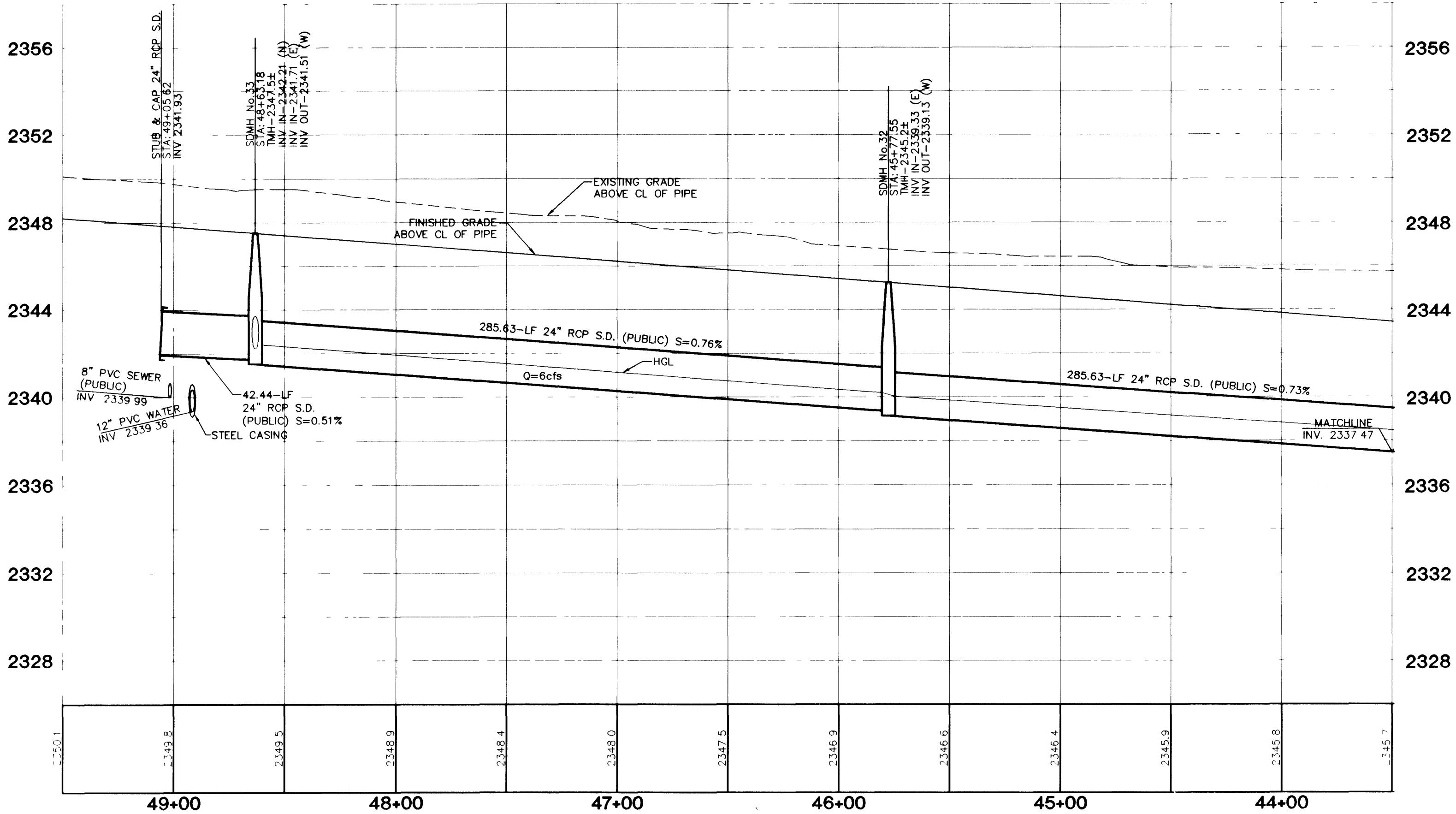
PROJECT DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV90-13NES
NAVD88 ELEVATION: 710.9608 METERS (2332.54 FEET)
ONLY BM 413148, DECATUR BLVD & GRAND TETON DRIVE
100' SW OF SECTION CORNER, NEXT TO METAL POWER POLE

Avoid cutting underground utility lines it's costly.
Call before you Dig
1-800-227-2600

Avoid overhead power line contact it's costly.
Call before you Overhead
1-702-593-6111

WATERLINE LEGEND
SEE SHEET C3 FOR QUANTITIES

- ① FIRE HYDRANT ASSEMBLY (PER UDACS PLATE NO. 7)
- ② 10" x 8" CROSS
- ③ 12" x 8" TEE
- ④ 12" CROSS
- ⑤ 12" x 8" CROSS
- ⑥ 12" GATE VALVE
- ⑦ 10" GATE VALVE
- ⑧ 8" GATE VALVE
- ⑨ CAP W/ 2" B.O. (PER UDACS PLATE NO. 4)
- ⑩ [CAP ONLY
- ⑪ 12" x 10" REDUCER
- ⑫ 12" 45° ELBOW
- ⑬ 10" 22° ELBOW
- 12" PVC WATER
- 10" PVC WATER
- 8" PVC WATER

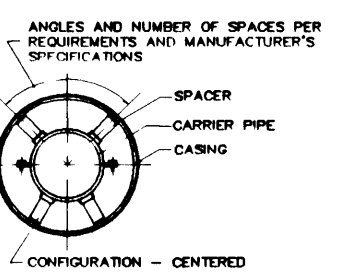


WHERE THE WATER IS LESS THAN 18 INCHES ABOVE SEWER LINE, WHERE THE WATER LINE IS UNDER THE SEWER LINE, AND WHERE THE SEWER LINE IS UNDER THE WATER LINE, THE WATER LINE SHALL BE PROTECTED BY CONSTRUCTION OF THE TYPICAL WATER MAIN CROSSING AS FOLLOWS:

1. EXTRA HEAVY CAST IRON PIPE
2. 18 INCH MINIMUM QUALITY MATERIALS OR
3. EXCAVATION WITH FOUR PROTECTIVE WALLS OF CONCRETE OR RAILROAD TIES WITH SPACERS

EACH OF THESE PROVISIONS SHALL ALSO BE EXTENDED FOR OTHER THAN 90 DEGREE CROSSINGS TO THE POINT AT WHICH THE TEN FOOT SEPARATION BETWEEN THE WATER AND SEWER LINES IS ACHIEVED (10/100 OF CROSSING ANGLE).

TYPICAL CASING SECTION



- NOTES:**
1. STEEL PIPE CASING SYMMETRICAL ABOUT WATER MAIN CENTERLINE.
 2. PRE-APPROVED CASING SPACERS AND PRE-APPROVED END SEALS SHALL BE USED. ALL JOINTS SHALL BE WELDED. EXTERIOR JOINTS SHALL BE WELDED TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 (ASME STANDARD) FOR FABRICATED ELECTRICALLY WELDED STEEL WATER PIPES. COATINGS FOR STEEL CASING ARE NOT REQUIRED.
 3. PIPE CASING SHALL BE LINED FROM THE LINE AND GRADE WITH NO JOINTS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
 4. THE PIPE SHALL BE SUPPORTED AT EACH END WITH MINIMUM 4" AFTER INSTALLATION OF THE PIPE. THE CASING SHALL BE SEALED AT BOTH ENDS WITH CASING END SEALS DOUBLE IRON PIPE JOINTS WHERE CASING ARE TO BE REPAIRED.

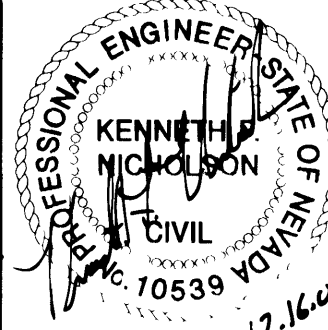
APPROVED FOR CONSTRUCTION

John P. ... 12-19-01
LAS VEGAS, NV DATE

STORM DRAIN PLAN & PROFILE
HORSE DRIVE
STA: 43+50.00 TO 49+05.62

IRON MOUNTAIN RANCH
HORSE/ THOM/ DECATUR
INFRASTRUCTURE

DRAWN BY: JULY '01
DESIGNED BY: JULY '01
CHECKED BY: AUG. '01
PROJECT NO: 5995
SCALE: 1"=40' HORIZ.
1"=4' VERT.



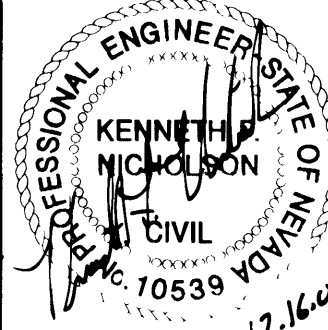
SHEET
SD5
30 OF 33 SHEETS
DRAWING NO
327Y-4604-H

KB HOME
7300 BROTHERS DRIVE
LAS VEGAS, NEVADA, 89119
(702)614-2500

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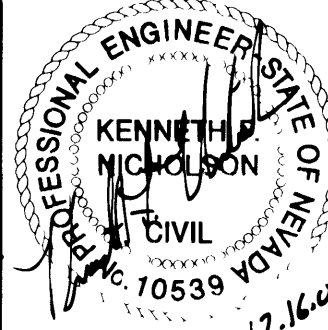
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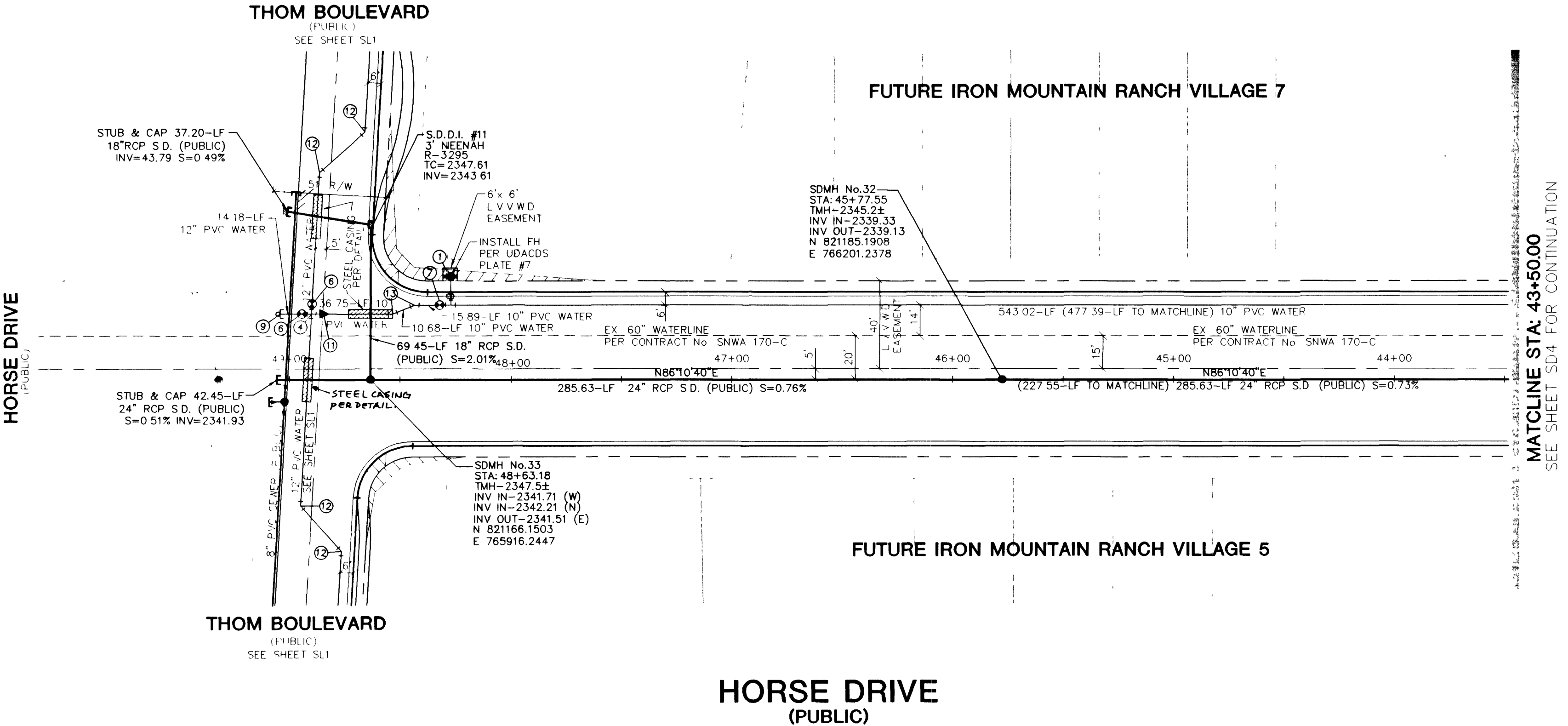
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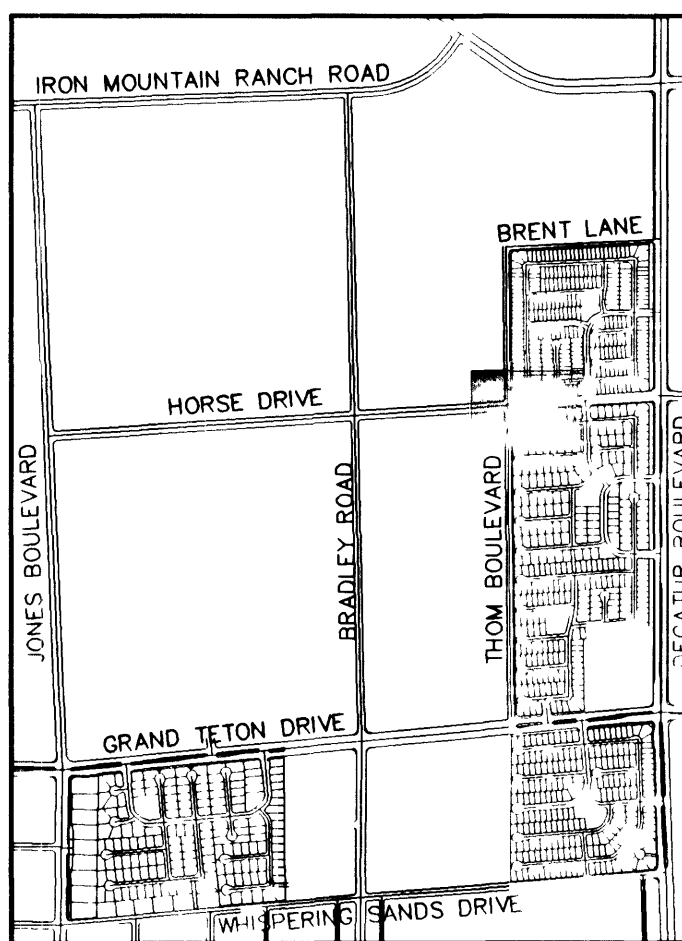


PROFILE SCALE:
HORIZ. 1" = 40'
VERT. 1" = 4'

NOTE: CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

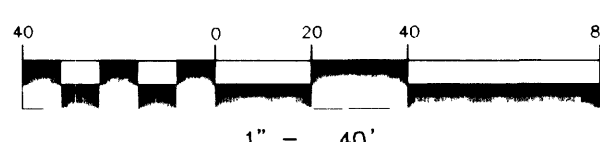
NOTE:
ALL MH STATIONING IS BASED ON SEWER LENGTHS FROM MANHOLE TO MANHOLE. ALL MANHOLES ARE 72" SIZE MANHOLES PER STD. DWG #SD-1, UNLESS OTHERWISE SPECIFIED.

NOTE:
MANHOLES TEN (10') FEET OR DEEPER ARE REQUIRED TO HAVE LOCKING MANHOLE COVERS.



KEY MAP

GRAPHIC SCALE



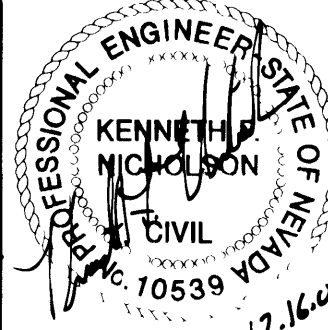
REV	DATE	BY	REVISION
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CITY OF LAS VEGAS
2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148
PH (702) 873-7550 FAX (702) 362-2597

KB HOME
7300 BROTHERS DRIVE
LAS VEGAS, NEVADA, 89119
(702)614-2500

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