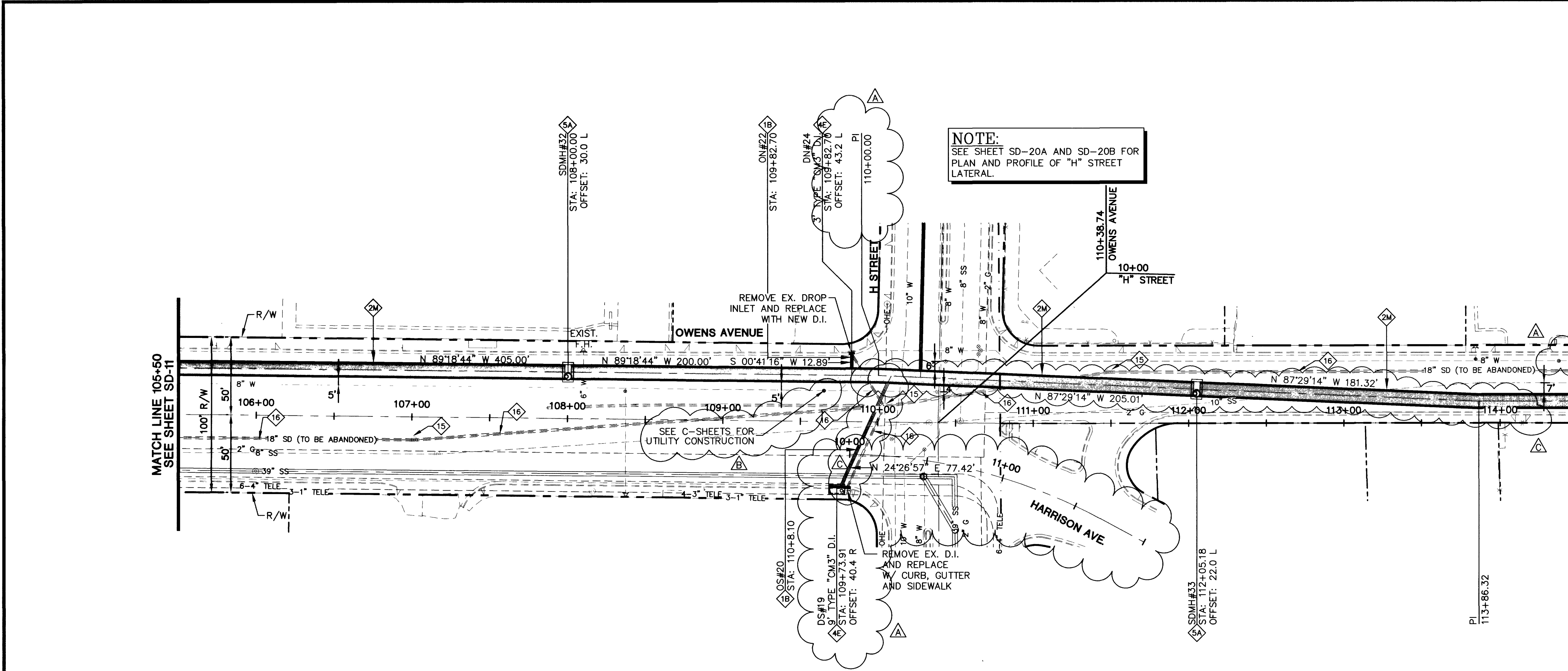




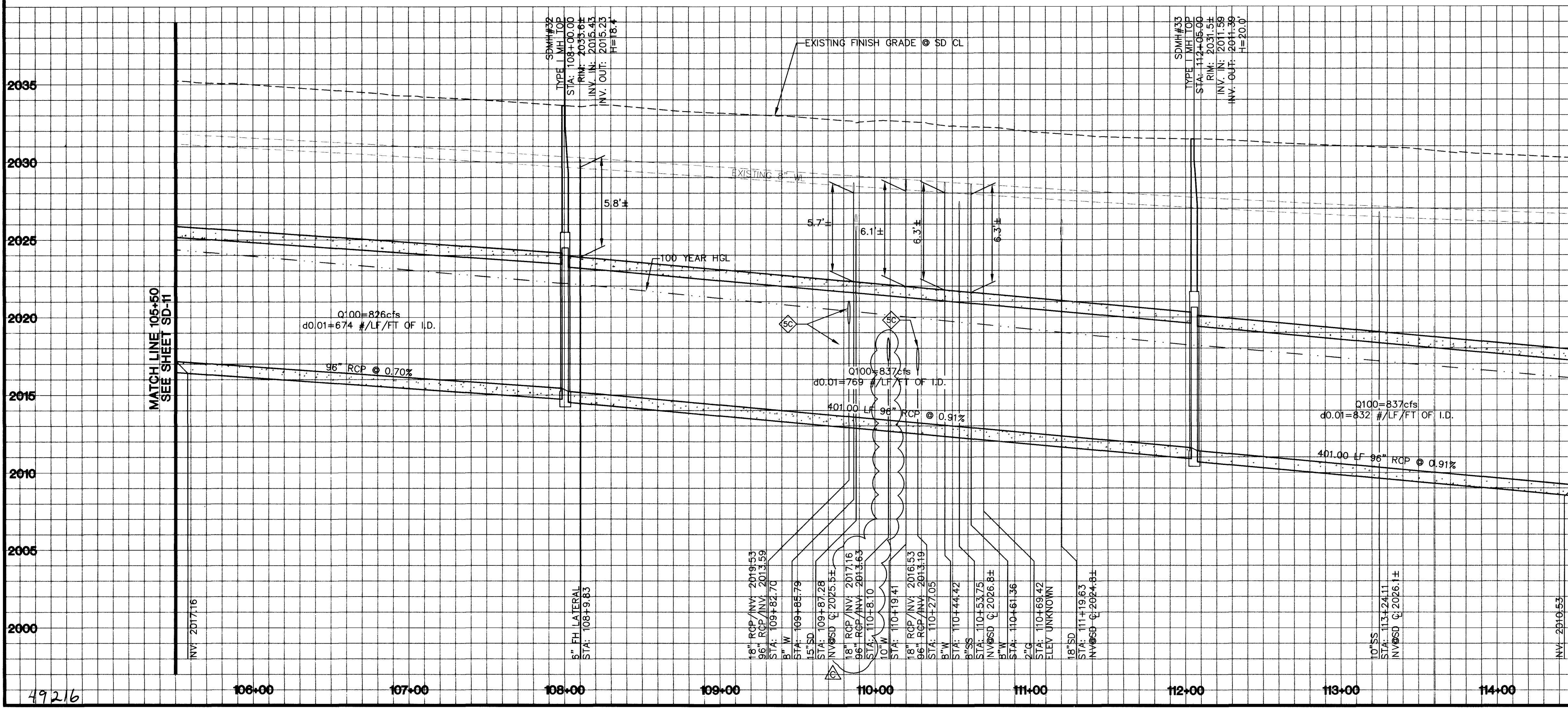
NOTE: SEE SHEETS SD-21 THROUGH SD-27 FOR STORM DRAIN LATERAL PROFILES.

NOTE: RCB TO BE PRECAST PER ASTM STD. C850 FOR COVER LESS THAN 2 FEET AND ASTM STD. C789 FOR COVER GREATER THAN 2 FEET.

GRAPHIC SCALE (IN FEET)

40 0 20 40 80

- CONSTRUCTION NOTES:**
- 18" RCP STORM DRAIN LATERAL (CLASS III) SEE LATERAL PROFILE SHEETS.
 - 96" RCP STORM DRAIN (CLASS III)
 - TYPE "C" DROP INLET PER C.C. AREA STD. DWG. #413. SEE LATERAL PROFILE SHEETS.
 - TYPE "CM3" DROP INLET PER DETAIL SHEET DT-2. SEE LATERAL PROFILE SHEETS.
 - CONSTRUCT JUNCTION MANHOLE PER DETAIL SHEET DT-1 WITH TYPE I STORM DRAIN MANHOLE TOP PER C.C. AREA STD. DWG. #403
 - INSTALL CONCRETE COLLAR AT JUNCTION BETWEEN RCP LATERAL AND RCP MAIN PER DETAIL SHEET DT-1
 - ABANDON EXISTING STORM DRAIN MANHOLE PER DETAIL ON SHEET DT-3.
 - ABANDON EXISTING STORM DRAIN IN PLACE. REMOVE WHERE IN CONFLICT WITH PROPOSED UTILITIES.



APPROVED FOR CONSTRUCTION
1st appd 12/2/02
1/17/03
LAS VEGAS VALLEY WATER DISTRICT
DATE

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS WITHIN 18" ABOVE A STORM DRAIN LINE, OR WHERE COMPACTION UNDER A WATERLINE CAN NOT BE MET, BACKFILL TRENCH WITH CEMENT SLURRY OR FLOWABLE FILL TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19.

NOTE TO CONTRACTOR:
CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO LVWD BEFORE CONSTRUCTION TO SHOW HOW WATERLINES SPANNING A TRENCH WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. DRAWINGS WILL INCLUDE ALL LOCATIONS WHERE WATERLINES SPAN A TRENCH GREATER THAN 4 (FOUR) FEET WIDE AND WHERE VALVES AND THRUST BLOCKS ARE EXPOSED. DRAWINGS MUST BE SEALED BY A NEVADA LICENSED ENGINEER.

NOTE:
PIPE LENGTH IS MEASURED FROM EDGE OF JUNCTION TO EDGE OF JUNCTION.

SAFETY ALERT
Call Before You Overhead
1-702-593-6111
Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600

Professional Engineer
KENNETH W. ACKERET
Exp 12/15/02
CIVIL
No. 8349
1/16/03
For Rev A, B, C

DATE
REVISIONS
W.A. #
SCALE (V): AS NOTED
SCALE (H): AS NOTED
F.L.D. BK. #
DESIGN BY
DATE
ZRT
KIMLEY-HORN and Associates, Inc.
Engineering, Planning, and Environmental Consultants
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DEPARTMENT OF PUBLIC WORKS
VEGAS DR./OWENS AVE.
RANCHO DR. TO INTERSTATE 15
STORM DRAIN
PLAN AND PROFILE
105+50 to 114+50
SHEET:
DRAWING NO.
SD-12
40

STORM DRAIN RELOCATION 1/13/03
REVISION PER LVWD COMMENTS 11/20/02
ADDENDUM No. 2, ITEMS 2.17 AND 2.18, 9/19/02