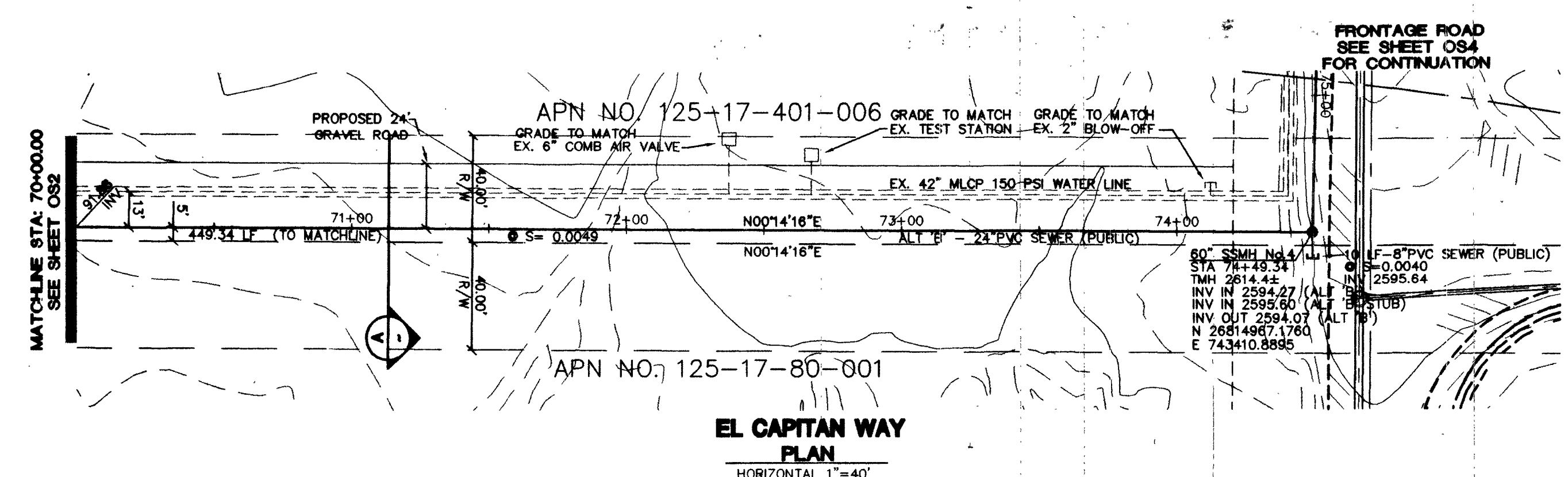
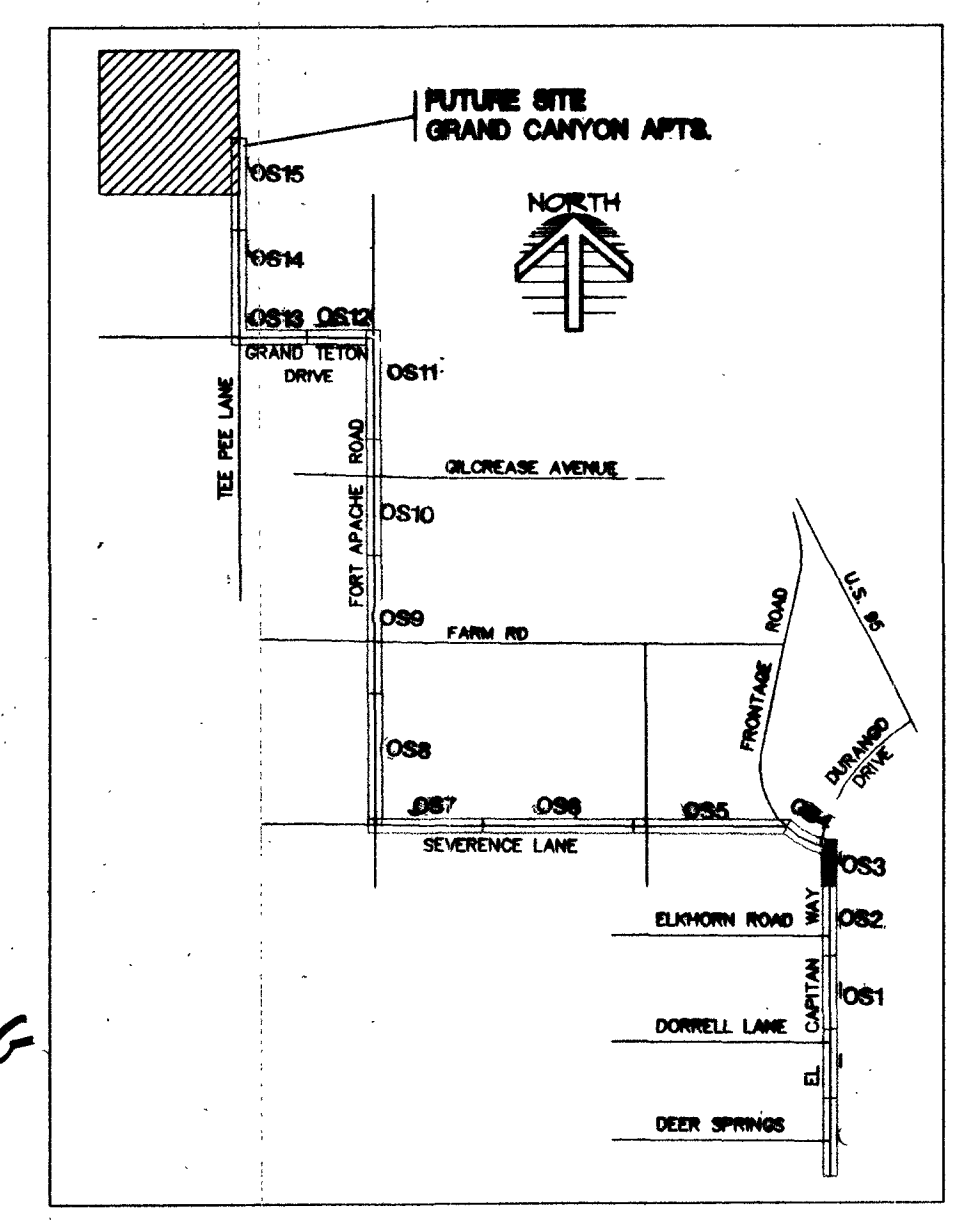


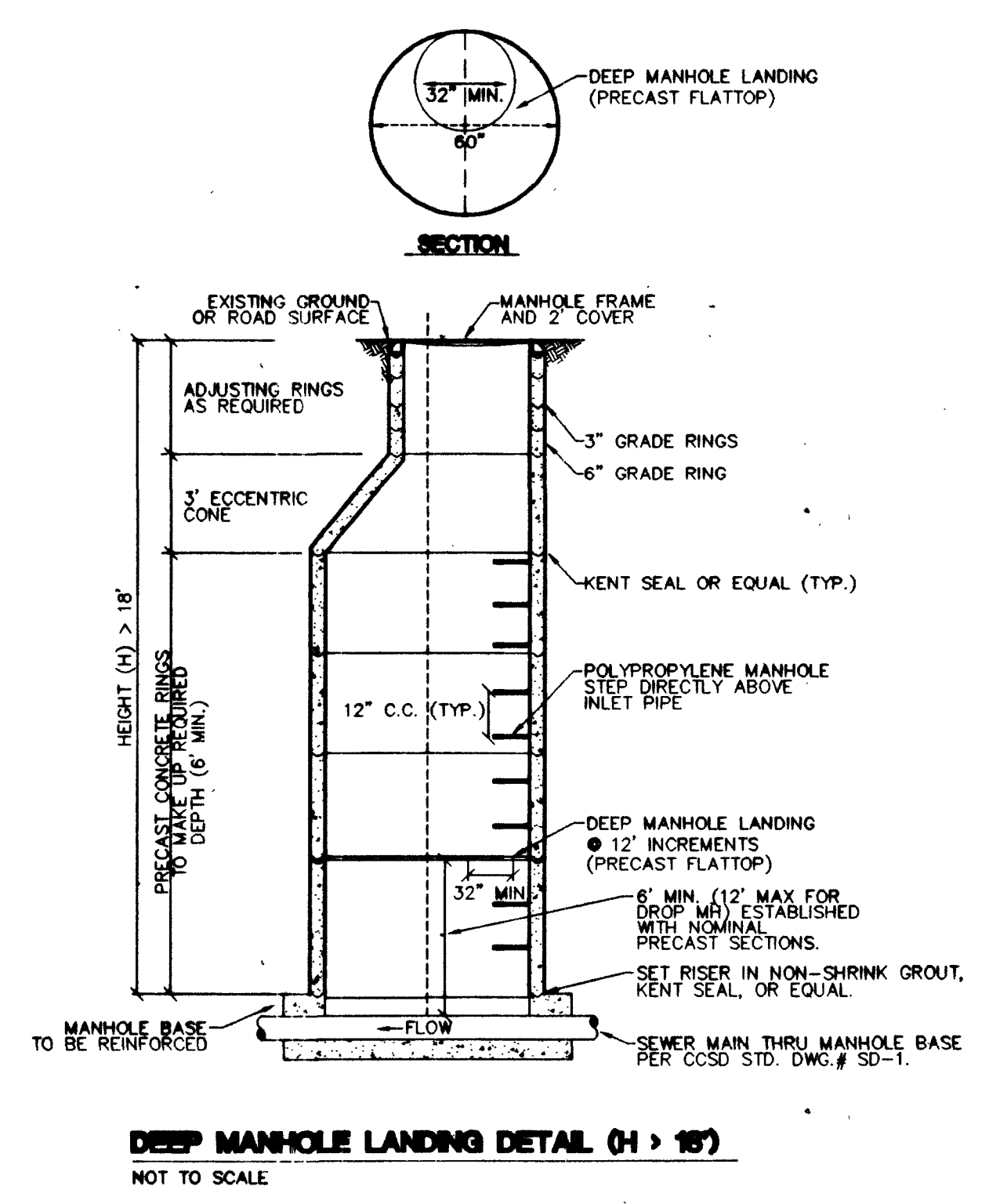


ALL SEWER PIPE AND FITTINGS MANUFACTURED BY J+M MANUFACTURING
 ALL MANHOLE COMPONENTS MANUFACTURED JENSEN PRECAST
 ALL LANDINGS SET PER PLAN
 ALT 'B' INSTALLED

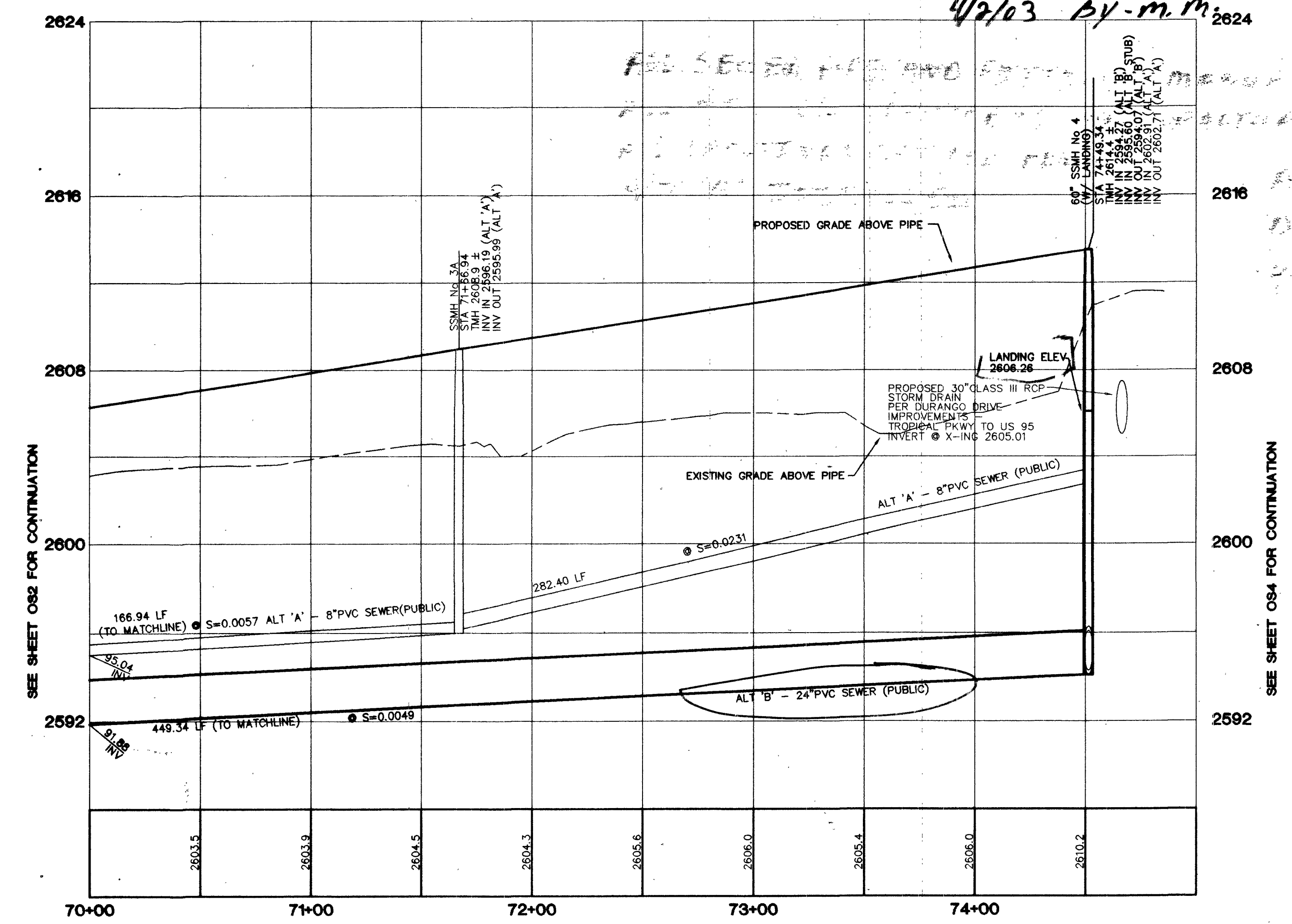
AS-BUILT
 DOW INDUSTRIES
 4/2/03 BY-M.M. 2624



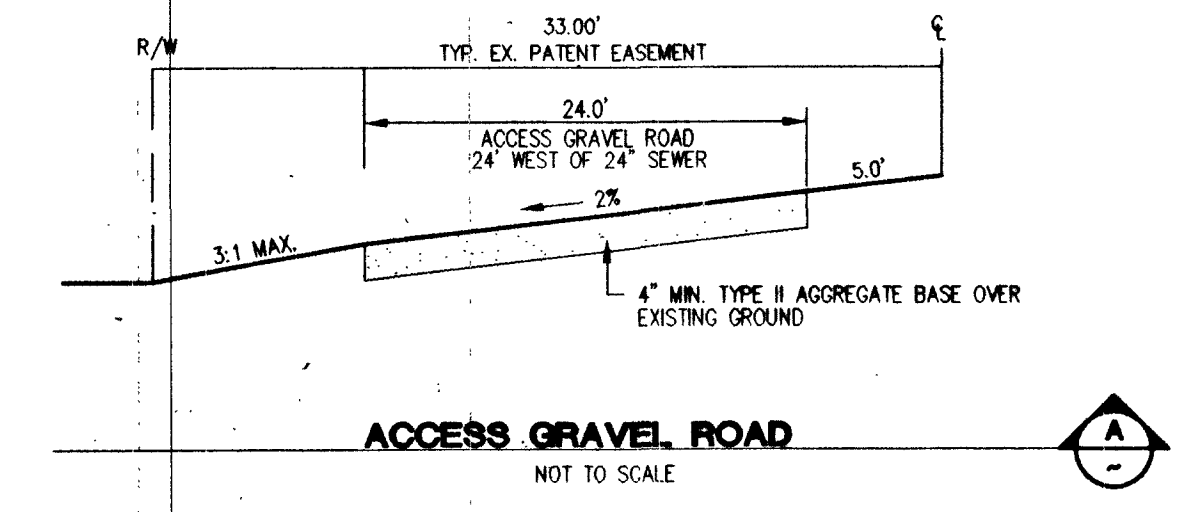
VICINITY MAP
 N.T.S.



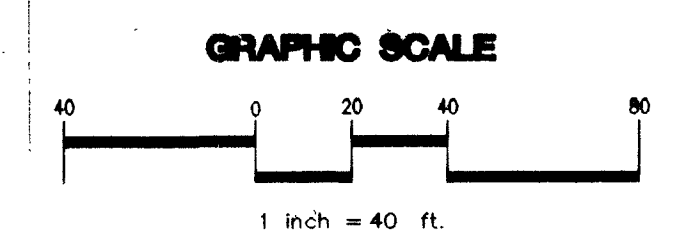
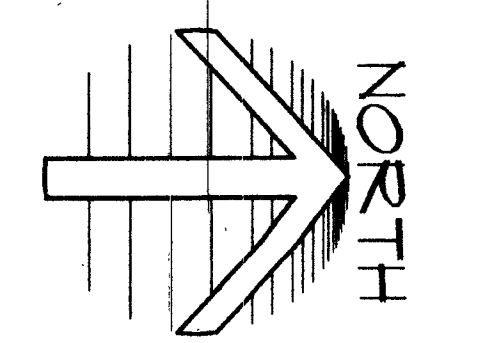
DEEP MANHOLE LANDING DETAIL (H > 18')
 NOT TO SCALE



PROFILE
 HORIZONTAL 1"=40'
 VERTICAL 1"=4'



NOTE
 EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS. CALL BEFORE YOU DIG: 1 (800) 227-2600.
 CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



BENCHMARK
 PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
 CLARK COUNTY BENCHMARK: 06001706
 NAVD88 ELEVATION: 793.117 METERS (2601.77 FEET)
 RIVET AND SQUARE ALUMINUM PLATE IN TOP CENTER OF HEADWALL ON THE WEST SIDE OF U.S. 95 NEAR MILE MARKER 90.15.

BASIS OF BEARING:
 N 89°09'50" W-BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY THAT RECORD OF SURVEY ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN BOOK 114 OF SURVEYS, AT FILE 57.

NOTE
 ALTERNATE 'A' SEWER DESIGN IS FOR BIDDING PURPOSES ONLY. ALT 'B' TO BE CONSTRUCTED.

NOTE
 MANHOLES SHALL HAVE AN APPROVED LOCKING COVER PER PARAGRAPH 2.2.9 OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS.

Call before you Dig
 1-800-227-2600

Call before you Overhead
 1-702-593-6111

GRAND CANYON PARTNERS, LLC.
 3320 NORTH BUFFALO DRIVE SUITE 203
 LAS VEGAS, NV 89125
 (702) 395-2050

EL CAPITAN WAY
 STA: 70+00.00-74+85.40

GRAND CANYON APARTMENTS
 OFF-SITE SEWER

DRAWN BY: JAN 2002

DESIGNED BY: JULY 2001

CHECKED BY:

PROJECT NO: 6038-05

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

EX-16-10-09

REGISTERED PROFESSIONAL ENGINEER - CIVIL
 DANIEL HODGSON
 NO. 12811 EXPIRES 12/31/02

SHEET
OS3
 6 OF 18 SHEETS

DRAWING NO.
 107-V-3625-03