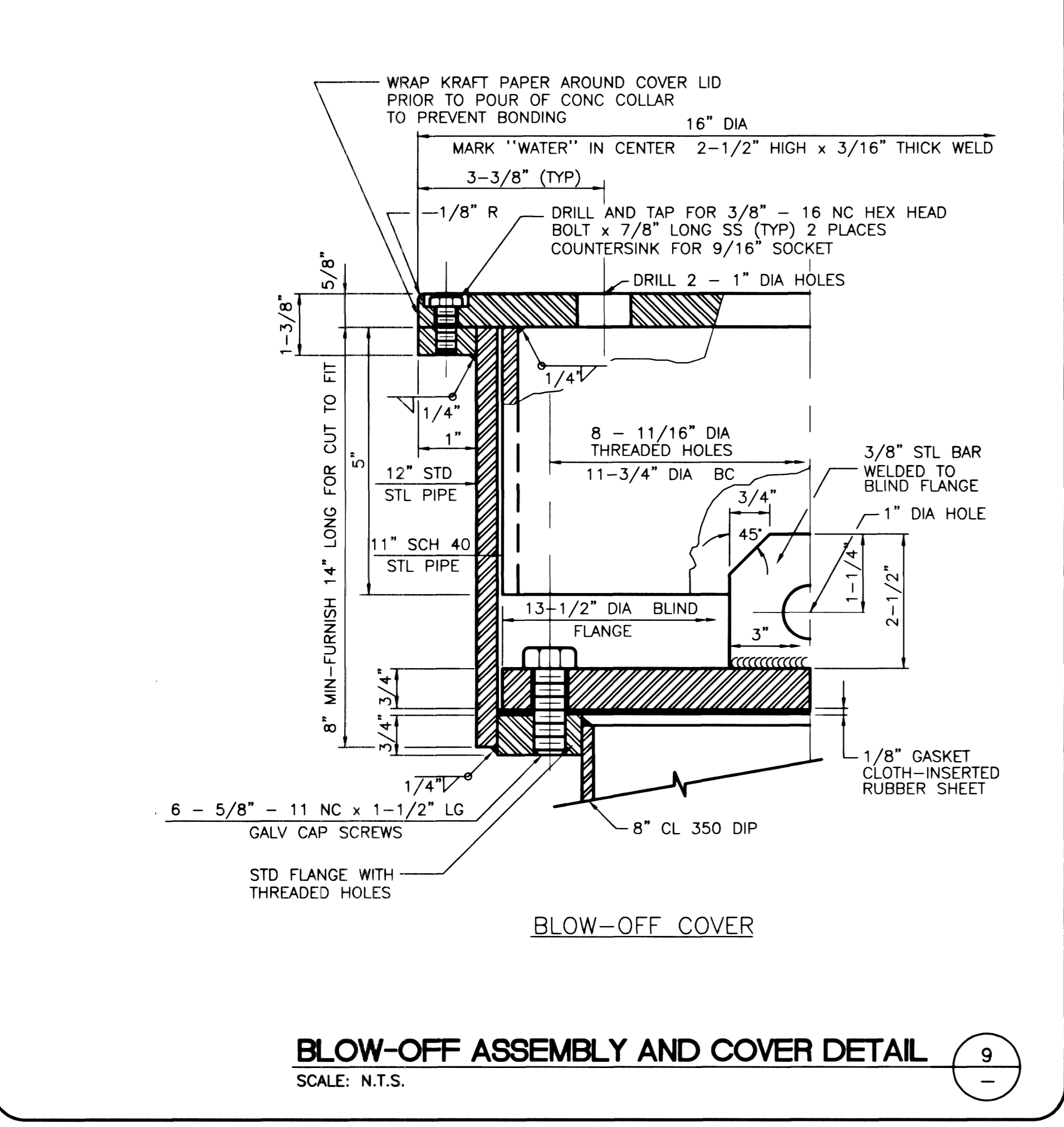
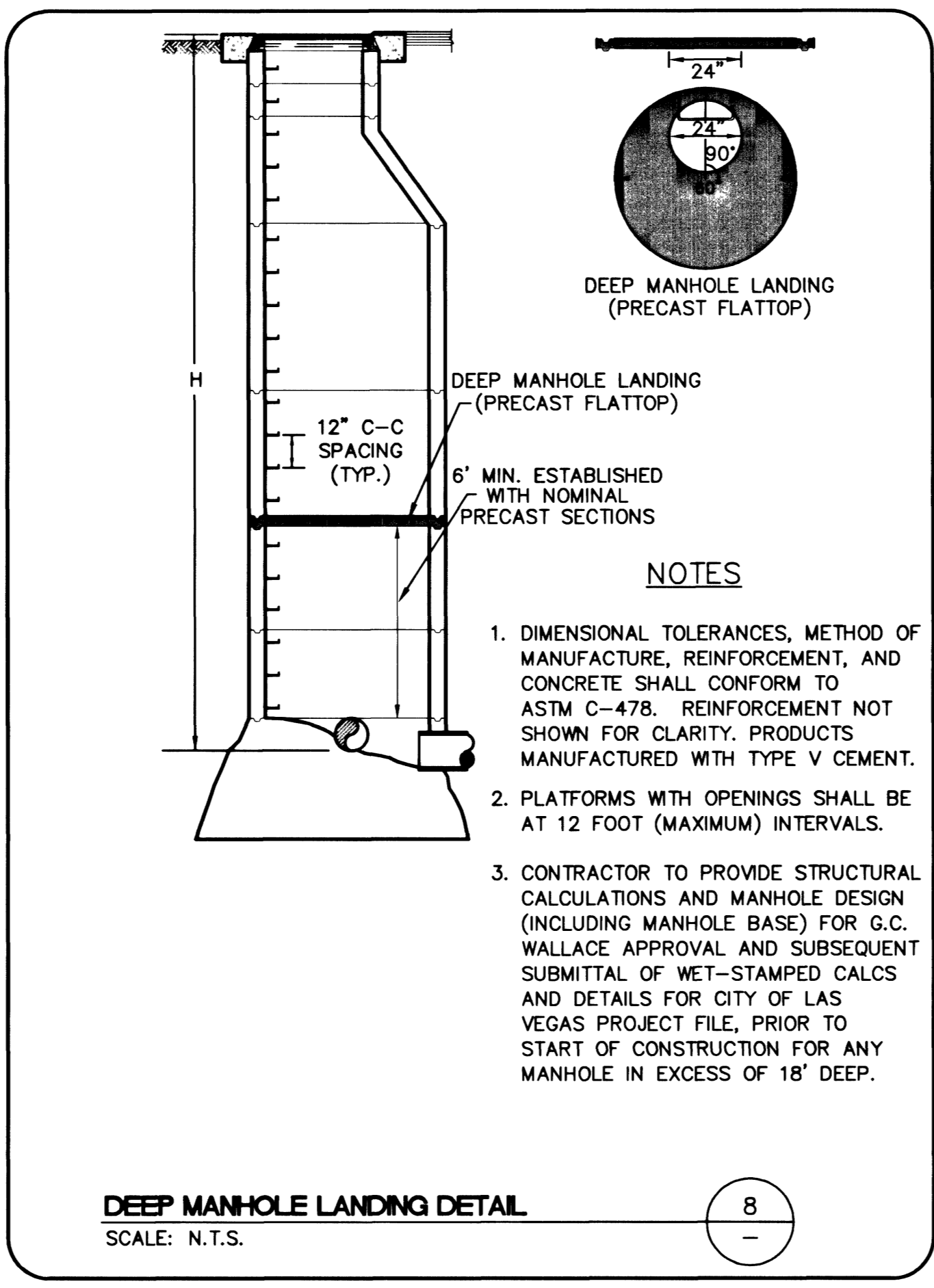


NOTES
 1. ALL 8" STL PIPE & FITTINGS TO HAVE CEMENT MORTAR LINING & COATING
 2. CONCRETE TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE

BLOW-OFF ASSEMBLY
 SCALE: N.T.S.

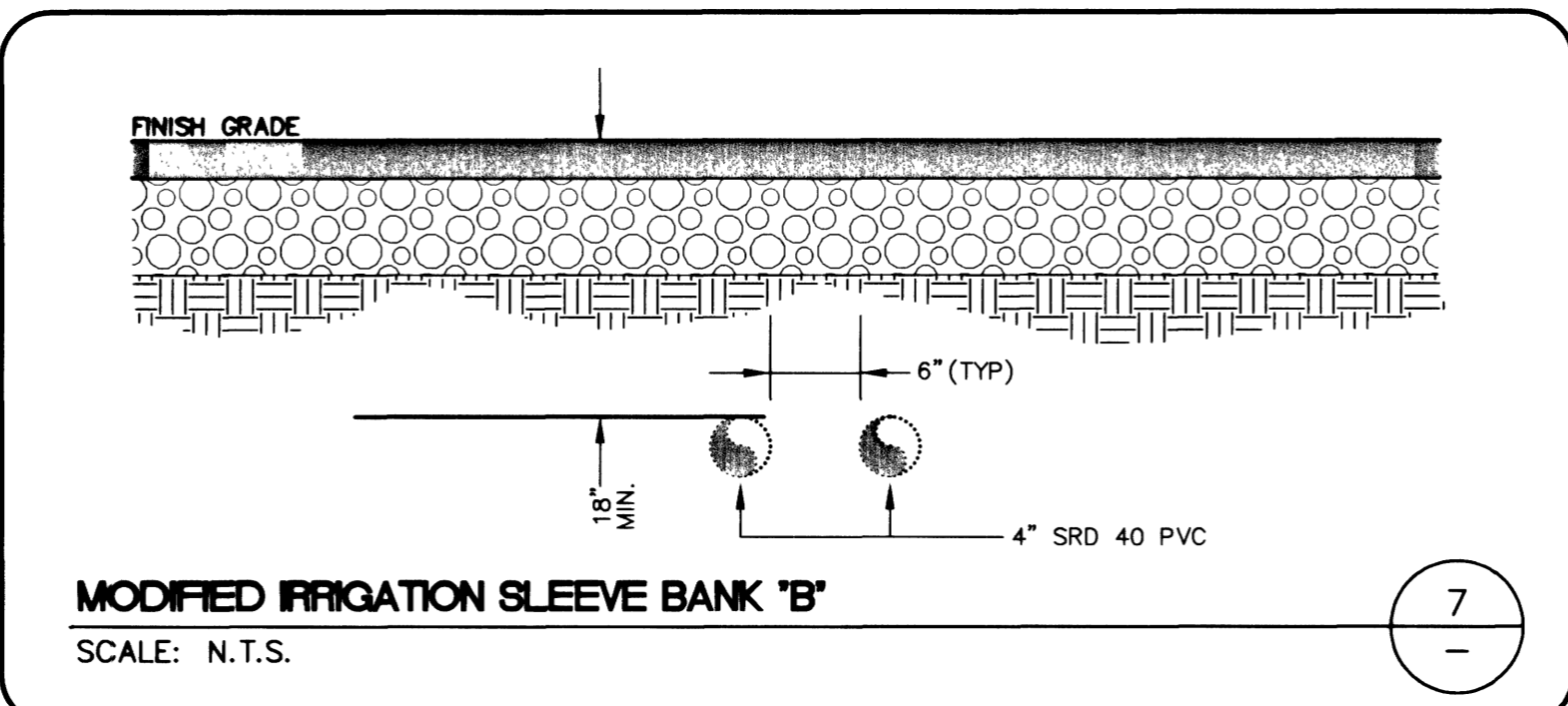


BLOW-OFF ASSEMBLY AND COVER DETAIL
 SCALE: N.T.S.

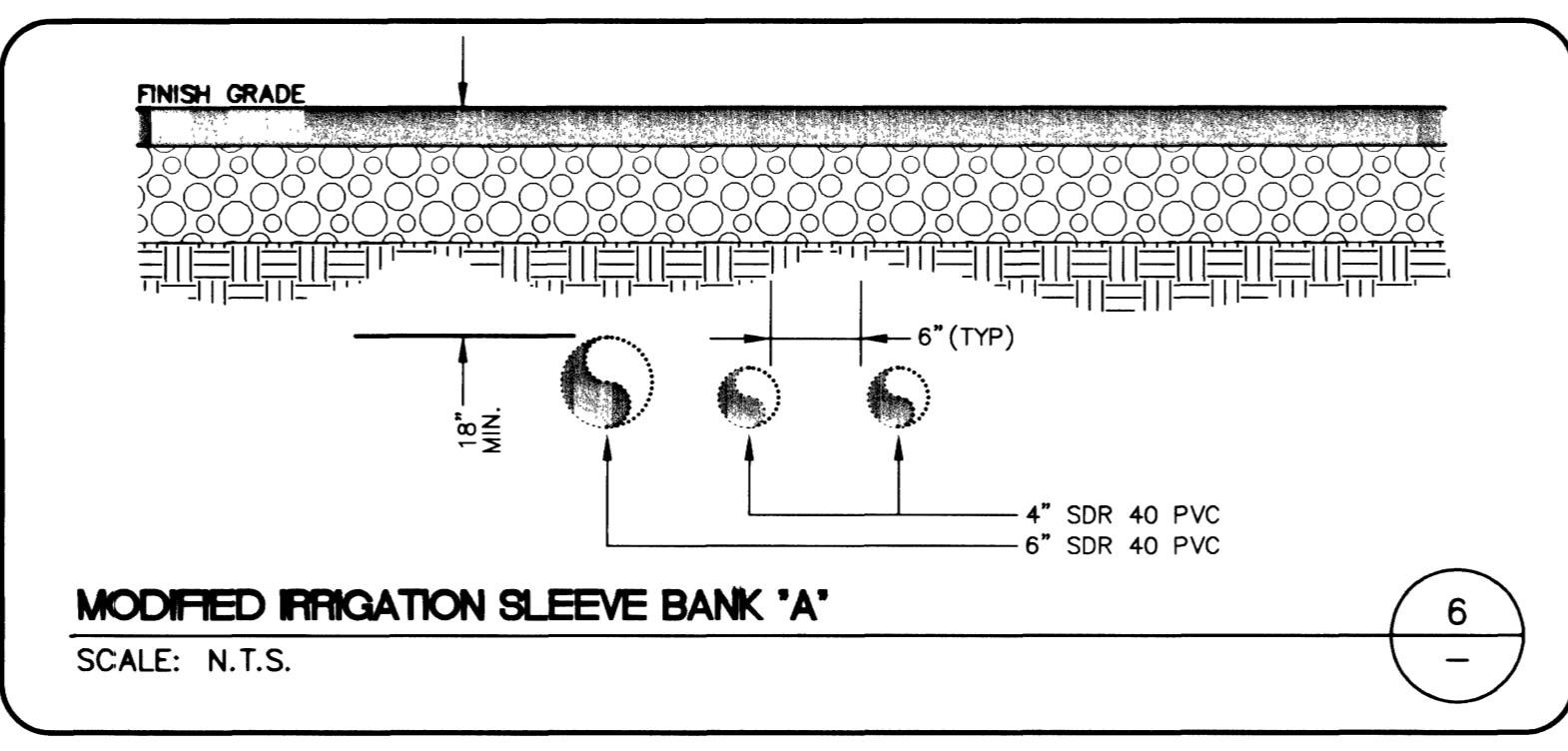


NOTES
 1. DIMENSIONAL TOLERANCES, METHOD OF MANUFACTURE, REINFORCEMENT, AND CONCRETE SHALL CONFORM TO ASTM C-478. REINFORCEMENT NOT SHOWN FOR CLARITY. PRODUCTS MANUFACTURED WITH TYPE V CEMENT.
 2. PLATFORMS WITH OPENINGS SHALL BE AT 12 FOOT (MAXIMUM) INTERVALS.
 3. CONTRACTOR TO PROVIDE STRUCTURAL CALCULATIONS AND MANHOLE DESIGN (INCLUDING MANHOLE BASE) FOR G.C. WALLACE APPROVAL AND SUBSEQUENT SUBMITTAL OF WET-STAMPED CALCS AND DETAILS FOR CITY OF LAS VEGAS PROJECT FILE, PRIOR TO START OF CONSTRUCTION FOR ANY MANHOLE IN EXCESS OF 18' DEEP.

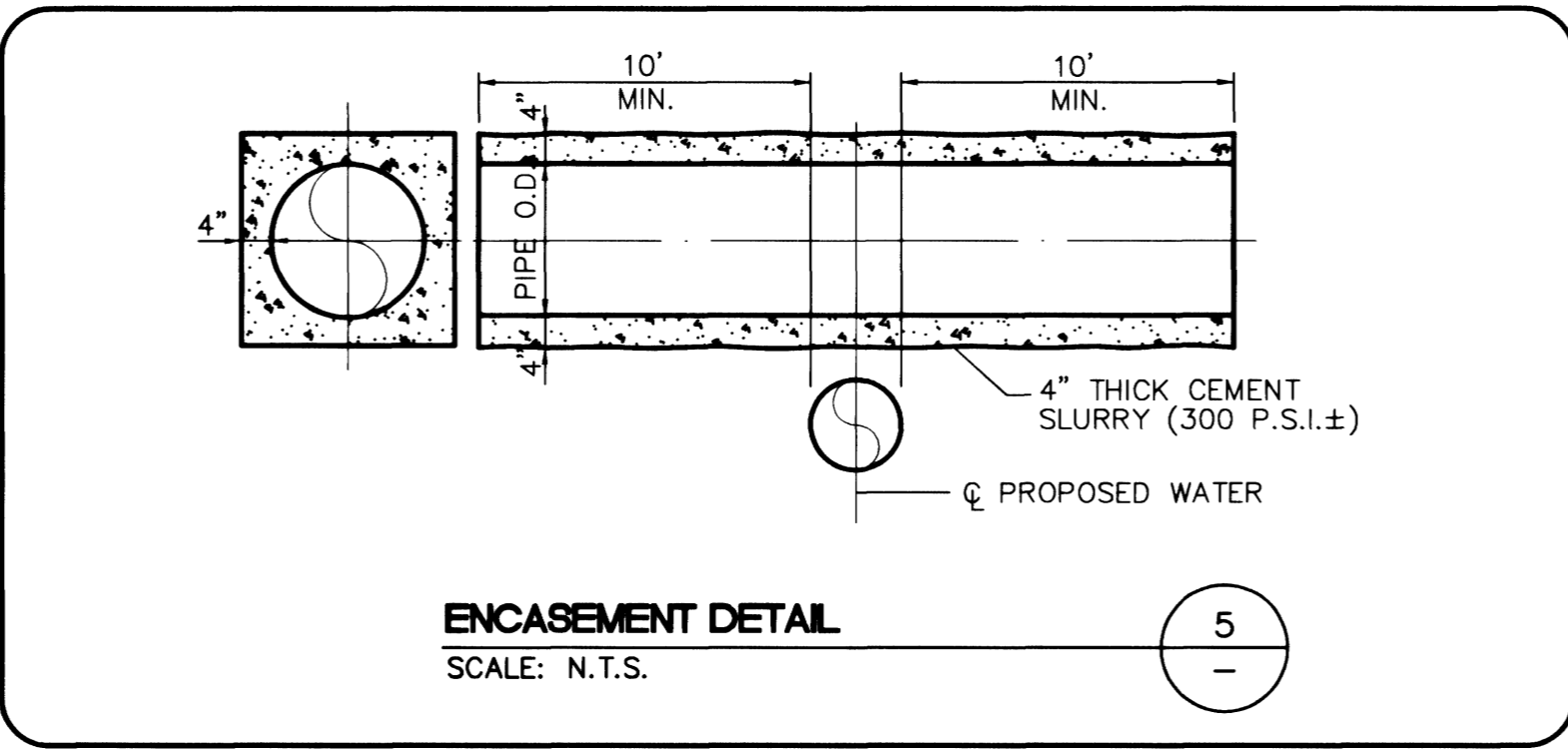
DEEP MANHOLE LANDING DETAIL
 SCALE: N.T.S.



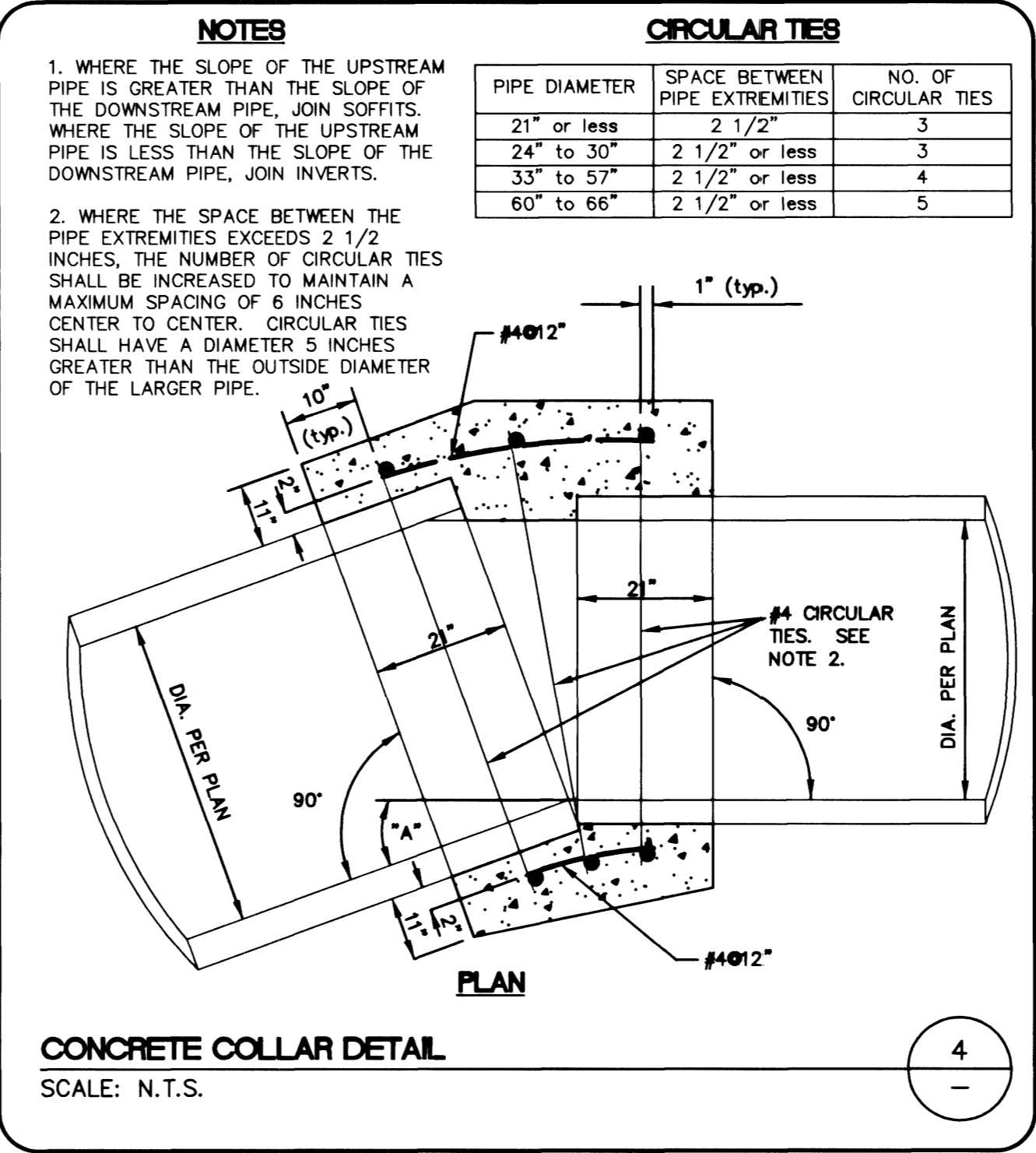
MODIFIED IRRIGATION SLEEVE BANK 'B'
 SCALE: N.T.S.



MODIFIED IRRIGATION SLEEVE BANK 'A'
 SCALE: N.T.S.



ENCASEMENT DETAIL
 SCALE: N.T.S.

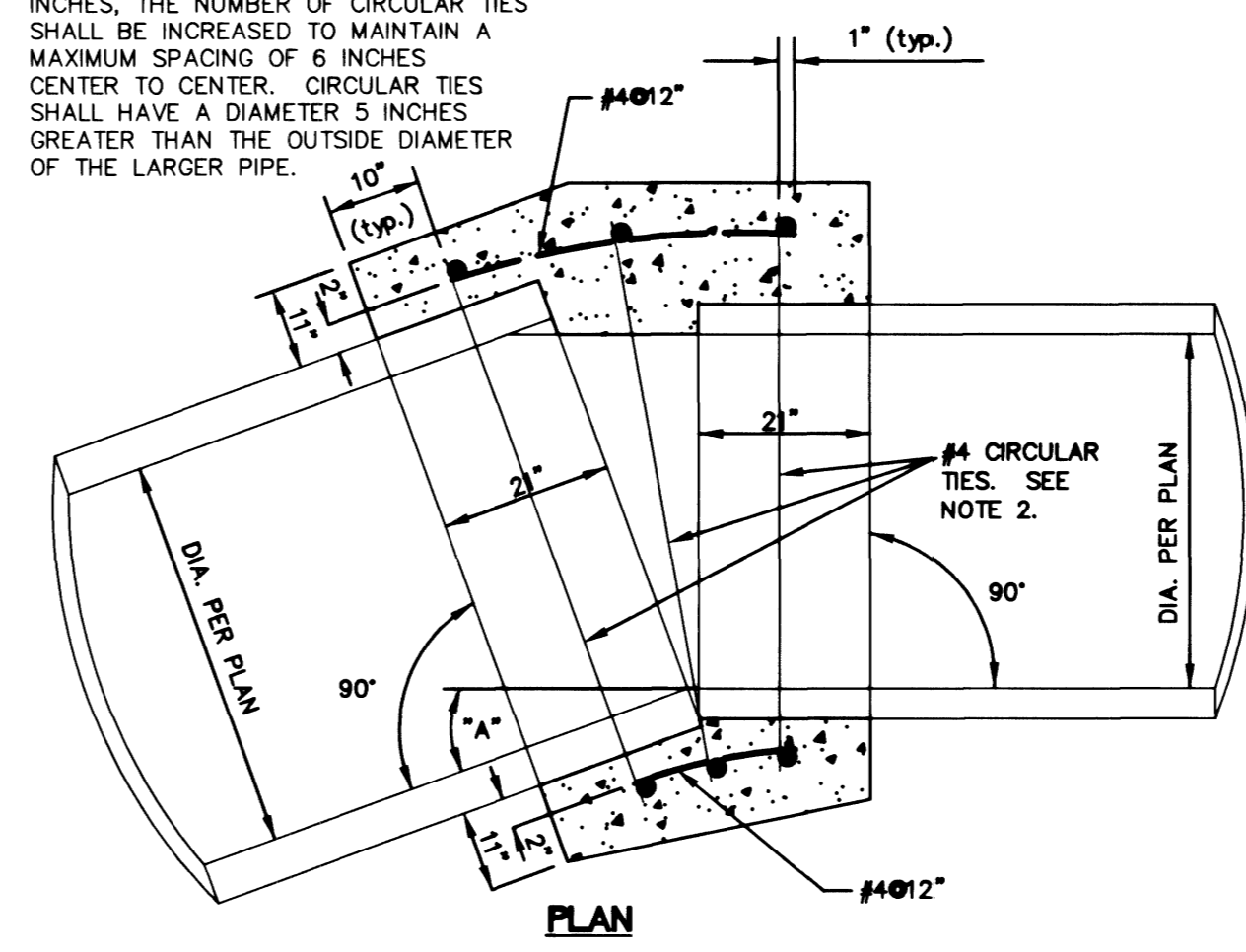


CONCRETE COLLAR DETAIL
 SCALE: N.T.S.

NOTES

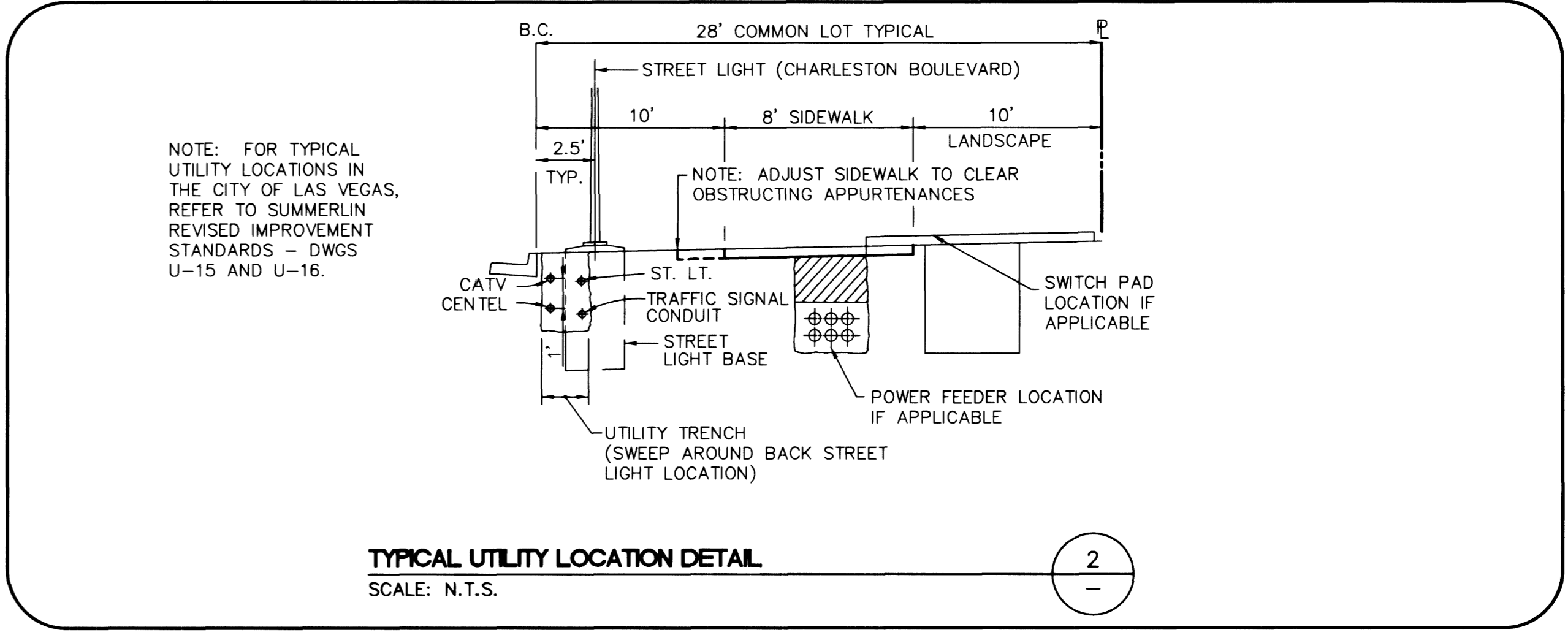
- WHERE THE SLOPE OF THE UPSTREAM PIPE IS GREATER THAN THE SLOPE OF THE DOWNSTREAM PIPE, JOIN SOFFITS. WHERE THE SLOPE OF THE UPSTREAM PIPE IS LESS THAN THE SLOPE OF THE DOWNSTREAM PIPE, JOIN INVERTS.
- WHERE THE SPACE BETWEEN THE PIPE EXTREMITIES EXCEEDS 2 1/2 INCHES, THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN A MAXIMUM SPACING OF 6 INCHES CENTER TO CENTER. CIRCULAR TIES SHALL HAVE A DIAMETER 5 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE LARGER PIPE.

PIPE DIAMETER	SPACE BETWEEN PIPE EXTREMITIES	NO. OF CIRCULAR TIES
21" or less	2 1/2"	3
24" to 30"	2 1/2" or less	3
33" to 57"	2 1/2" or less	4
60" to 66"	2 1/2" or less	5

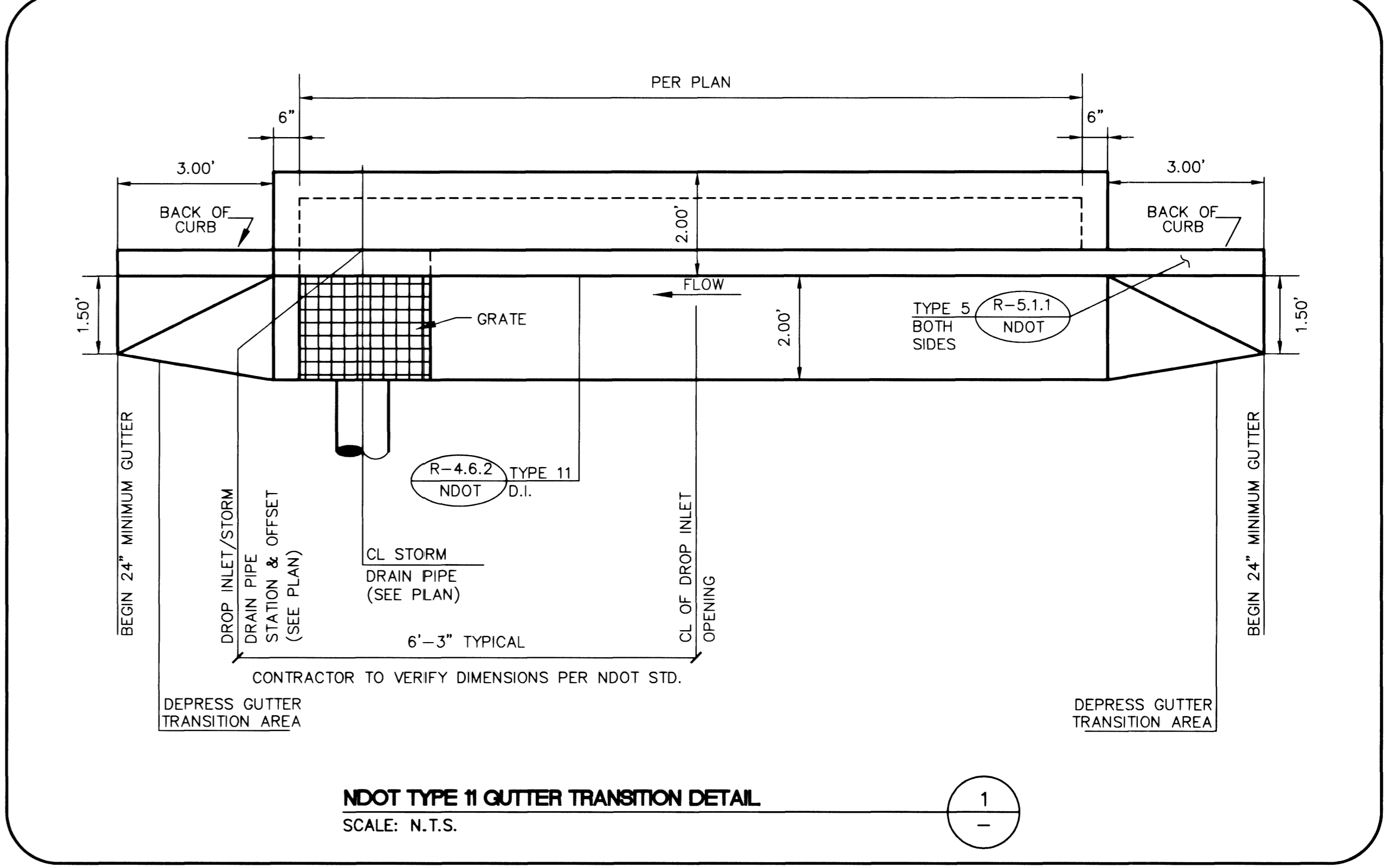


NOTE: FOR TYPICAL UTILITY LOCATIONS IN THE CITY OF LAS VEGAS, REFER TO SUMMERLIN REVISED IMPROVEMENT STANDARDS - DWGS U-15 AND U-16.

TYPICAL UTILITY LOCATION DETAIL
 SCALE: N.T.S.



TYPICAL PAVEMENT/CURB MATCH-UP
 SCALE: N.T.S.



NDOT TYPE 11 GUTTER TRANSITION DETAIL
 SCALE: N.T.S.

DESIGN: _____
 DRAWN: _____
 CHECK: _____
 ISSUE DATE: _____
 PLOT DATE: 03-28-02
 PLOT TIME: 14:47:53
 DATE: 10/16/01
 ISSUE FOR AGENCY APPROVAL

G.C. WALLACE, INC.
 Engineering/Architecture
 1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
 TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299
 F: 602020314 • WWW: GFWALLACE.COM • P: 602020224

SUMMERLIN
 V 9/20 CHARLESTON BOULEVARD IMPROVEMENTS
 STATION 787+91 TO STATION 84+02
 MISCELLANEOUS DETAILS
 SHEET
C-25
 25 OF 30 SHTS

APPROVED FOR CONSTRUCTION:

 LAS VEGAS VALLEY WATER DISTRICT
 DATE: _____