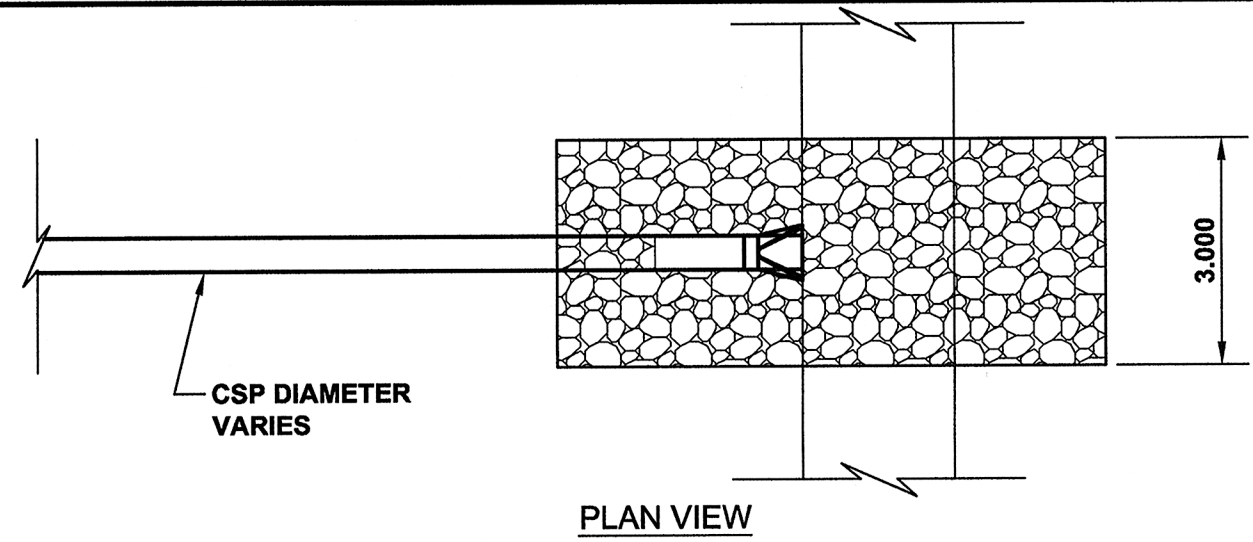


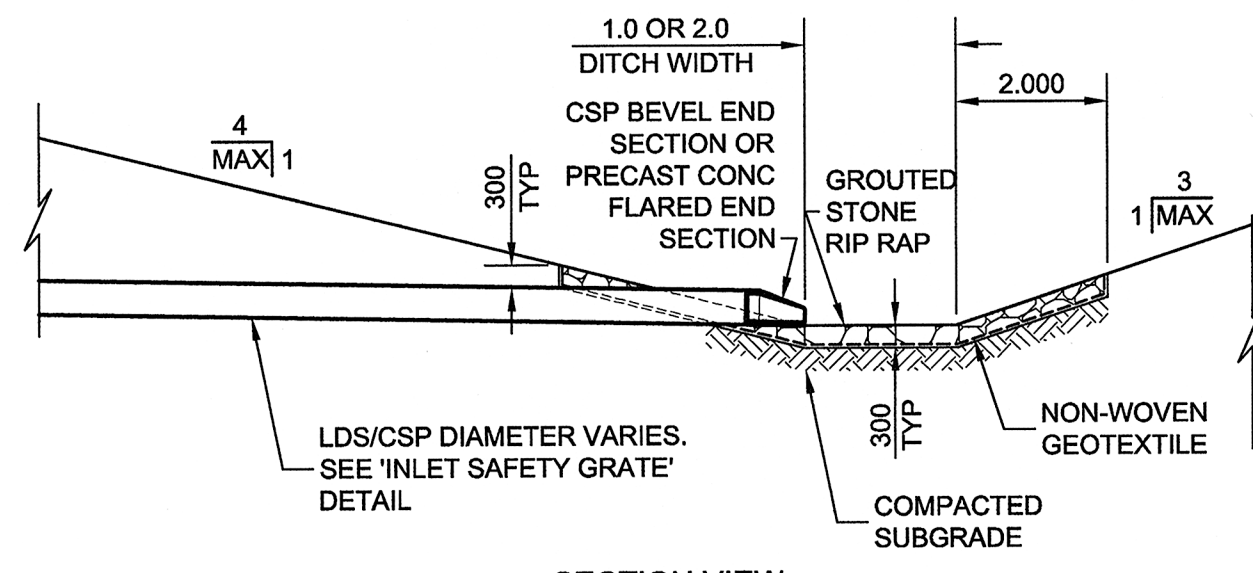
A1 SIZE 23.4" x 33.1" (594mm x 841mm)

PLOT: 080626 5:42:13 PM

UMA FILE NAME: 0265-06-00\_01-CT4032\_RX.dwg Saved By: ccopark



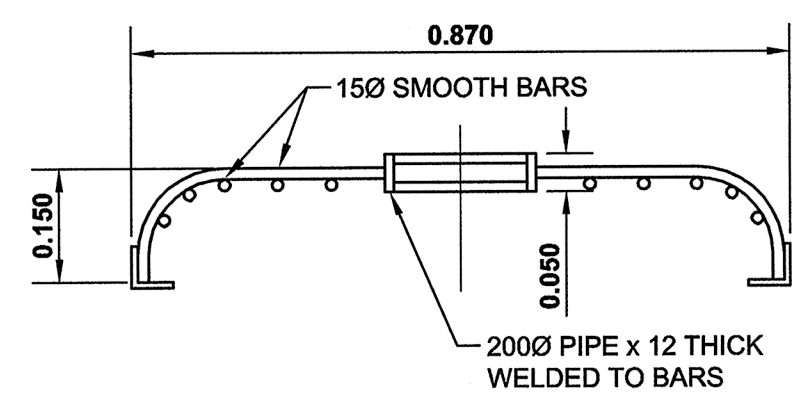
PLAN VIEW



SECTION VIEW

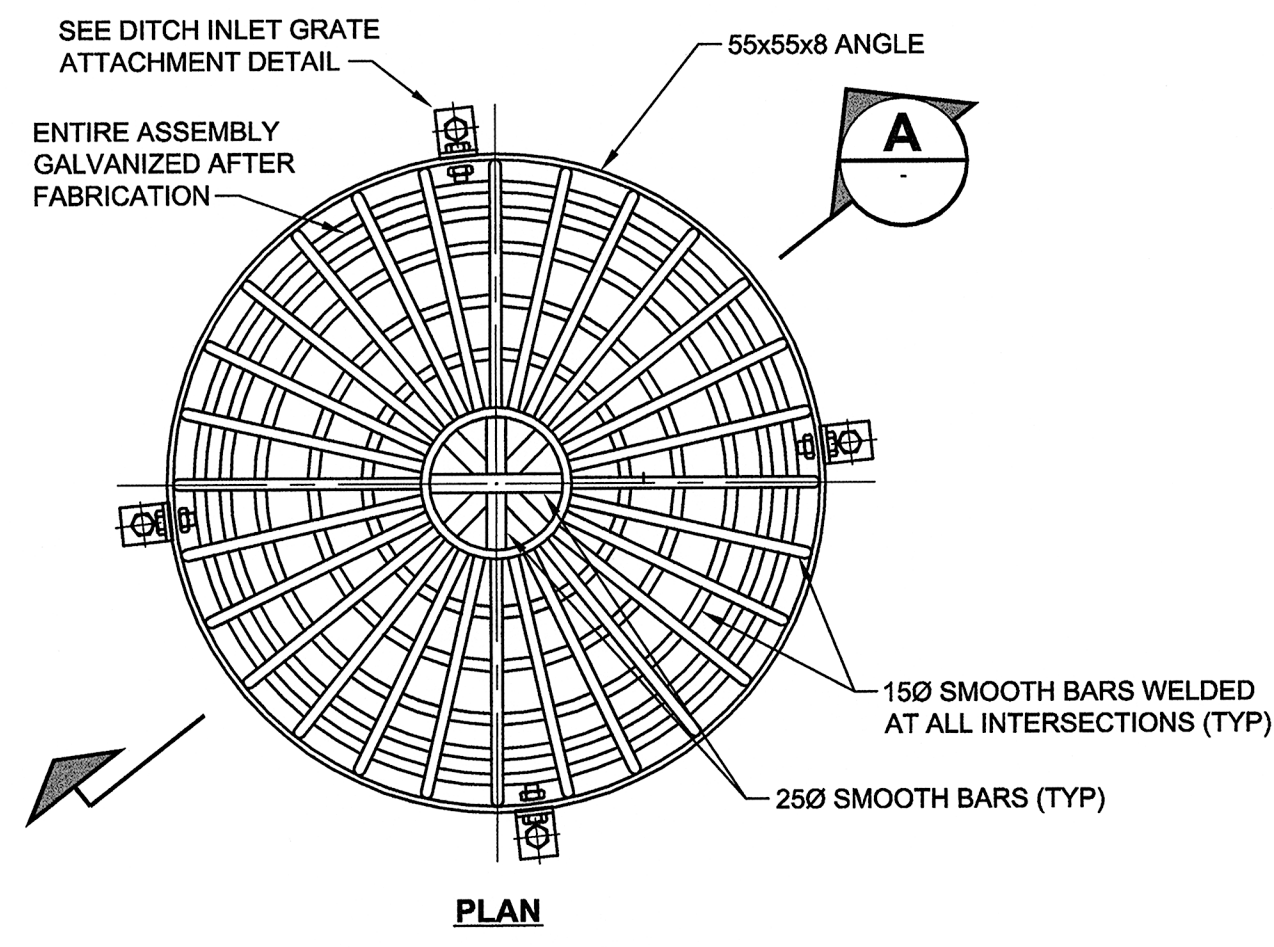
**TYPICAL RIP RAP @ LDS INLET/OUTLET**

SCALE 1:100



SECTION A

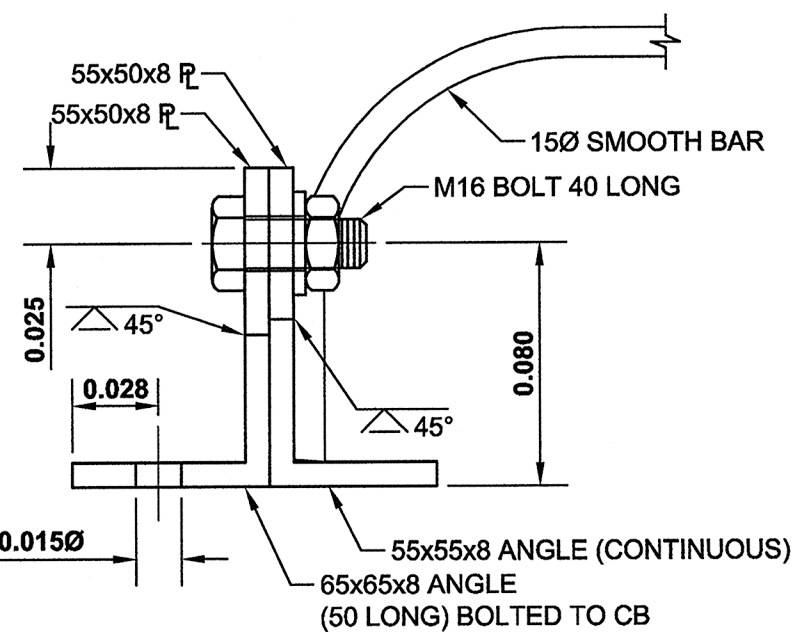
SCALE 1:10



PLAN

**DITCH INLET GRATE**

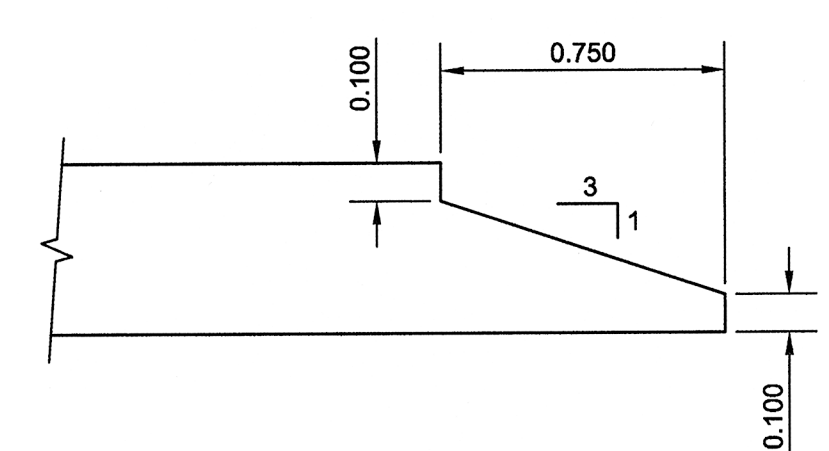
SCALE 1:10



**DITCH INLET GRATE ATTACHMENT**

SCALE 1:2.5

DIAMETER OF PIPE	LENGTH	STEP
250Ø	300	75
300Ø	450	75
400Ø	600	100
450Ø	750	100

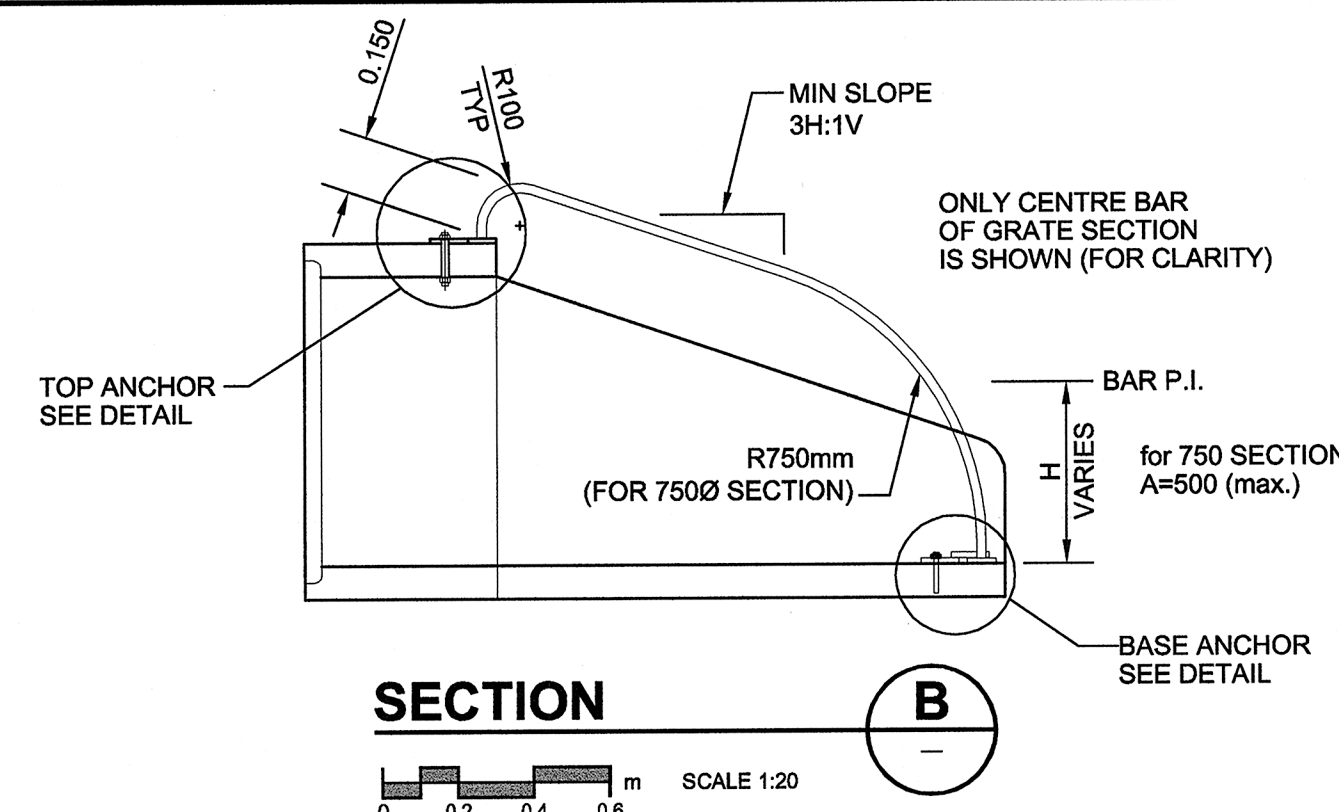


**CSP BEVEL ENDS**

SCALE 1:20

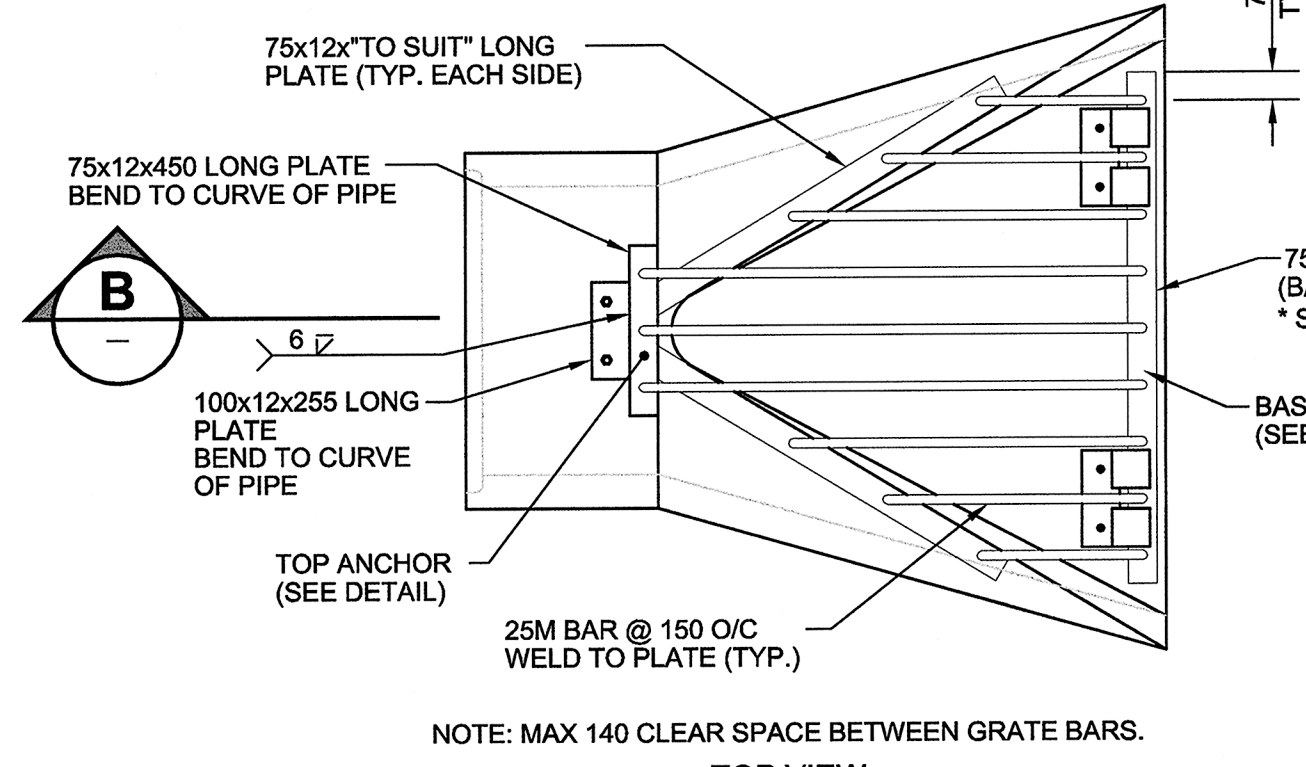
(450Ø SHOWN)

NOTE: ALL NEW CSP'S TO BE INSTALLED C/W BEVEL END SECTIONS UNLESS NOTED OTHERWISE.



SECTION B

SCALE 1:20

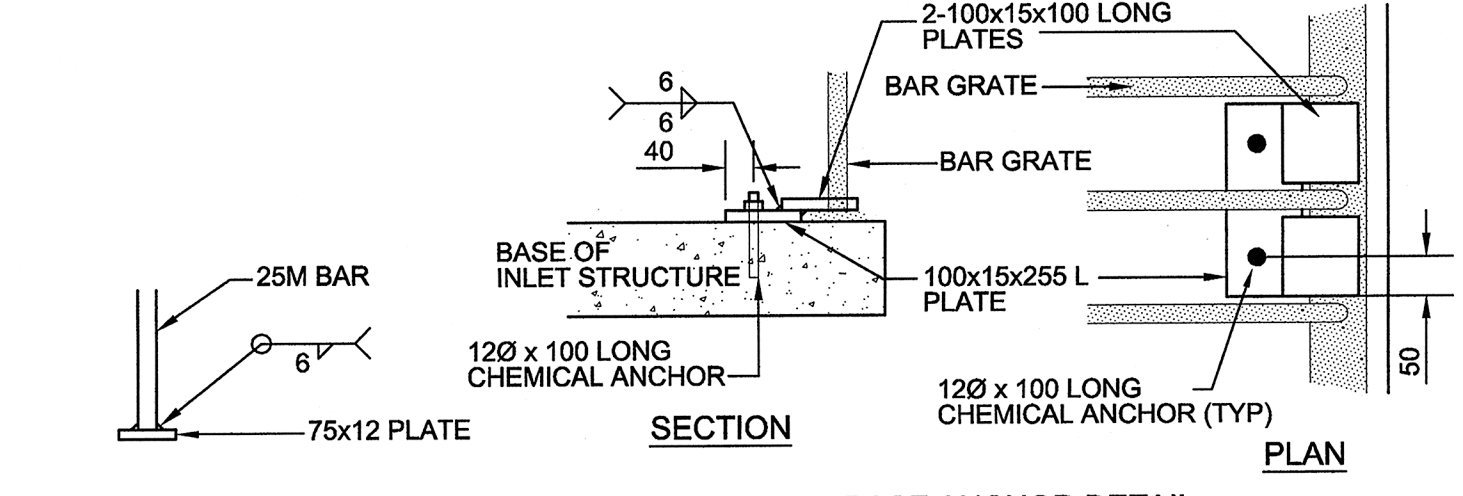


TOP VIEW

SCALE 1:20

NOTE: MAX 140 CLEAR SPACE BETWEEN GRATE BARS.

DIAMETER OF PIPE	LENGTH OF PLATE 'A'
450Ø	750
600Ø	1050
900Ø	1650



SECTION C

SCALE: N.T.S.



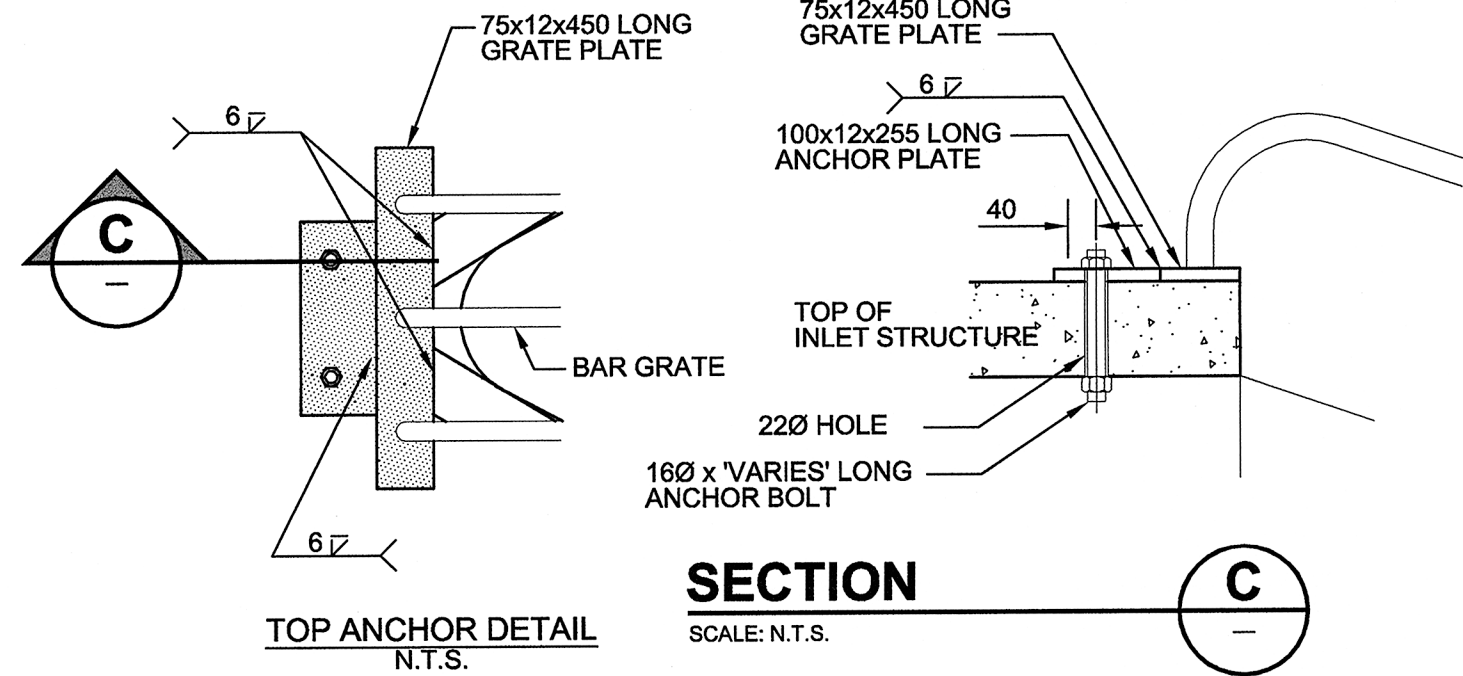
TYP BAR CONNECTION

N.T.S.



BASE ANCHOR DETAIL

N.T.S.

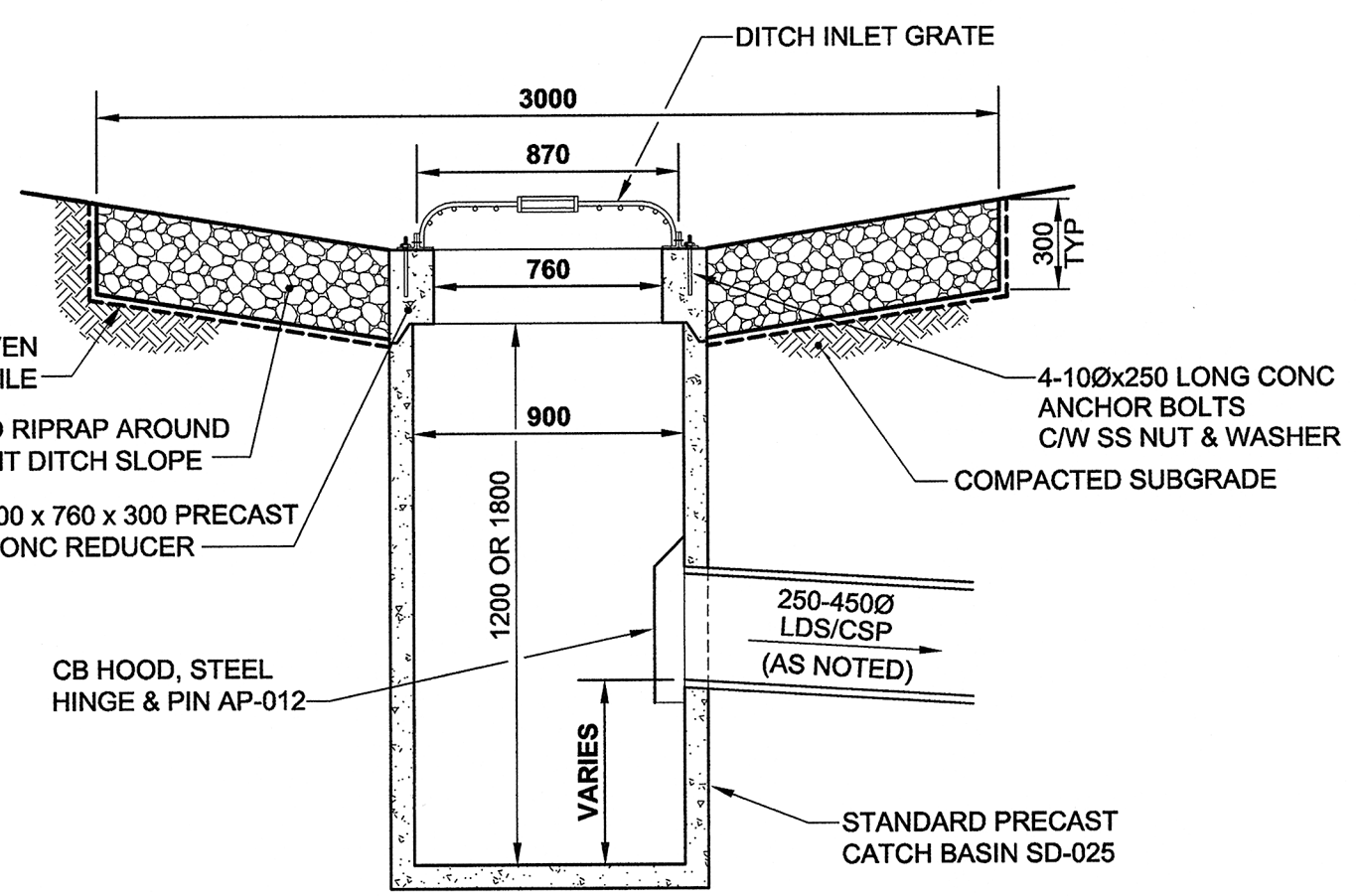


TOP ANCHOR DETAIL

N.T.S.

SECTION C

SCALE: N.T.S.



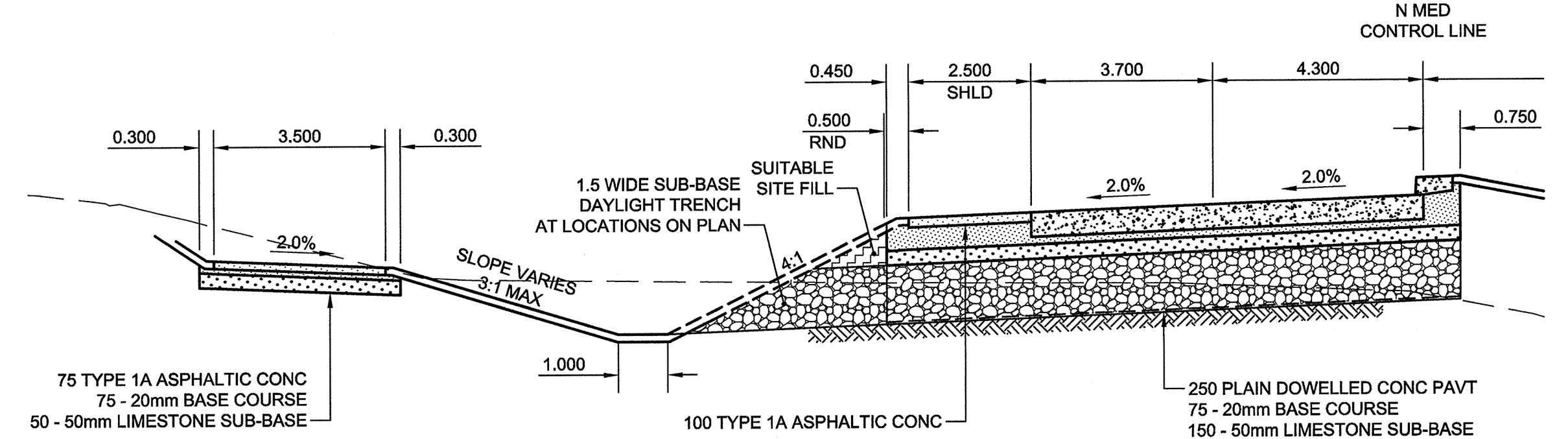
**DITCH INLET DETAIL**

SCALE 1:25

**PRECAST CONCRETE FLARED END SECTIONS C/W SAFETY GRATES**

SCALE 1:20 OR AS SHOWN

(750Ø SHOWN)



**SUB-BASE DAYLIGHTING TRENCH**

SCALE 1:100

NOTE: SUB-BASE DAYLIGHTING TRENCH PAID UNDER CONTRACT UNIT ITEM EXCAVATION AND CRUSHED SUB-BASE MATERIAL.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	08/08/27	DID

DESIGNED BY	CHECKED BY	DRAWN BY	APPROVED BY	HOR. SCALE	VERT. SCALE	DATE
WRJ	JGK	DID	BWB	AS SHOWN	AS SHOWN	08/08/27

**UMA | AECOM**

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DESIGNED BY WRJ CHECKED BY JGK  
DRAWN BY DID APPROVED BY BWB

HOR. SCALE AS SHOWN VERT. SCALE AS SHOWN

RELEASED FOR CONSTRUCTION

DATE 08-07-02

PROFESSIONAL'S SEAL  
R. P. BRUCE  
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO. 0265-06-00\_01-CT4032\_RX.dwg

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
TRANSPORTATION ENGINEERING DIVISION

McGILLIVRAY BOULEVARD  
120m WEST OF KENASTON BOULEVARD  
TO WAVERLEY STREET  
WIDENING AND REHABILITATION  
DETAILS

CITY DRAWING NUMBER P-3294-32  
SHEET 32 OF 44  
DRAWING No. 32 REV 0

**APEGM**  
Certificate of Authorization  
UMA Engineering Ltd. (MB)  
No. 256 Date: June 27/08

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES  
BID OPPORTUNITY NO. 466-2008