

GENERAL NOTES

A. DESIGN CRITERIA AND BUILDING CODE

1. AS-116 EDC AND EXHIBIT
2. 10-01 10001
LOADS PROVIDED BY PRESENT
DOE TEL OF WATER
SUD REPORT

B. PRE-CAST CONCRETE

1. WORK SHALL CONFORM TO ALL REQUIREMENTS OF AS 116 PRESCRIBED BY THE
APPLICABLE CONCRETE MANUALS, TECHNICAL CODES AS VOUCHER BY THE
REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. MAJOR WATER EXPOSURE, ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT
CONCRETE WITH WEIGHT APPROXIMATELY 145 P.C.F.

A. CONCRETE FINISH SHALL CONFORM TO THE FOLLOWING:

1. FINISH SHALL BE AS FOLLOWS:
 - A. SHALL BE FINISH CONCRETE SURFACE
 - B. SHALL BE FINISH CONCRETE SURFACE OF LEAD PAINT
 - C. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - D. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - E. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - F. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - G. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - H. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - I. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL
 - J. SHALL BE FINISH CONCRETE SURFACE WITH A FINISH OF GALL

B. ALL CONCRETE SURFACES SHALL HAVE A FINISH FINISH UNLESS NOTED OTHERWISE IN THE PLANS OR CONTRACT DOCUMENTS.

1. JOINTS OF WORK TO BE JOINED SUBJECT TO THE JOINTS BE LIMITED TO THE CASE WHEN THE
NECESSITY OF JOINTS IS NECESSARY FOR PRACTICAL REASONS AND ALL OF THE WATER
TIGHTNESS OF JOINTS SHALL BE MAINTAINED AS FAR AS POSSIBLE. JOINTS SHALL BE
MAINTAINED WITH AN APPROPRIATE MATERIAL, SUCH AS GROUT OR SEALANT, WHICH IS COMPATIBLE
WITH THE CONCRETE MATERIAL. JOINTS SHALL BE MAINTAINED AS FAR AS POSSIBLE.
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C. REINFORCING STEEL

1. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A618, GRADE 60.
2. PROVIDE WELDED WIRE FABRIC CONFORMING TO ASTM A185, LAP LENGTH FOR VERTICAL
REINFORCING SHALL BE 12" MINIMUM.

3. CONCRETE CLEAR COVER OVER REINFORCING SHALL BE AS INDICATED WITH THE EXCEPTIONS OF AS 116-17 IN FOLLOWING:

- | | |
|---|-----------|
| TOP SURFACE AND NORMALLY EXPOSED TO WEAR | 3 IN. |
| EXPOSED TO WEAR IN WALKWAYS, IS PATS AND LARGES | 1 IN. |
| EXPOSED TO WEAR IN WALKWAYS, IS PATS AND LARGES | 1 1/2 IN. |
| WALLS, VENTS, JOISTS NOT EXPOSED TO WEAR OR WEATHER | 3/4 IN. |
| JOISTS AND CHANGES NOT EXPOSED TO WEAR OR WEATHER | 1 1/2 IN. |

4. ALL REINFORCING SHALL BE CONFORMING UNLESS NOTED OTHERWISE.
PROVIDE CLEAR COVER OVER REINFORCING. PROVIDE CLEAR COVER OVER REINFORCING.
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PROTECTIVE AREA/APRON

THE AREA ADJACENT TO THE WATERING FACILITY THAT WILL BE TRAMPLED BY LIVESTOCK SHALL HAVE AN APRON A MINIMUM OF 5 FT. IN WIDTH SURROUNDING THE WATERING FACILITY. THE APRON SHALL BE CONSTRUCTED OF 4-IN. THICK CONCRETE, 6-IN. THICK GRAVEL, CRUSHED ROCK OR CALICHE, OR 12 INCH THICK MOUNDING SOIL SLOPED AWAY FROM THE FACILITY AT A 10:1 SLOPE.

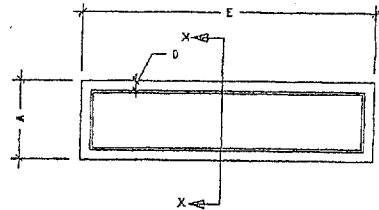
PLUMBING

DOUBLE CHECK VALVES OR OTHER MEASURES PRESCRIBED IN LOCAL PLUMBING CODES ARE REQUIRED AT WATER FACILITY INLETS WHEN WATERING FACILITIES ARE CONNECTED TO WATERLINES THAT HAVE DOMESTIC USERS.

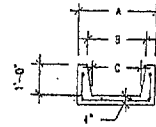
SHUT-OFF VALVES WILL BE INSTALLED ON INLETS AND OUTLETS TO CUT OFF FLOW AS NECESSARY FOR REPAIRS AND MAINTENANCE.

WATERING FACILITIES SHALL BE EQUIPPED WITH A WATER INLET PIPE, DRAINAGE OUTLET AND OVERFLOW OUTLET, AS EITHER INDIVIDUAL OUTLETS OR COMBINATION OF OUTLETS. OVERFLOW OUTLETS WILL BE PIPED TO A STABLE POINT OF RELEASE.

ALL VALVES AND PIPES SHALL BE PROTECTED BY SHIELDS OR COVERS, OR DESIGNED TO PREVENT DAMAGE BY LIVESTOCK AND BE PROTECTED FROM FREEZING AND ICE DAMAGE.

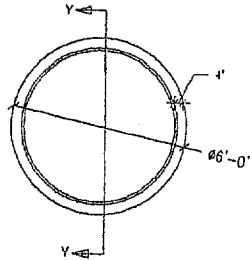


1 RECTANGULAR TROUGHS

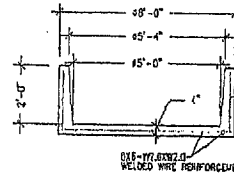


SECTION X-X

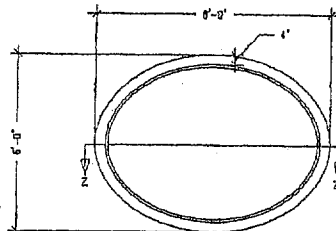
RECTANGULAR CONCRETE TROUGHS					
A	B	C	D	E	REINFORCEMENT
2'-10"	1'-11"	1'-0"	3"	3"	1#017 OC, EW SIDES AND BOTTOM
2'-8"	2'-0"	1'-8"	3"	6"	1#012 OC, EW SIDES AND BOTTOM
2'-6"	2'-0"	1'-8"	4"	10"	1#012 OC, EW SIDES AND BOTTOM
2'-5"	2'-0"	1'-8"	4"	12"	1#012 OC, EW SIDES AND BOTTOM



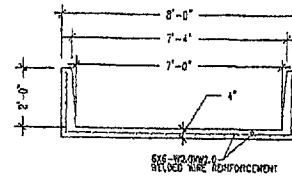
2 CIRCULAR TROUGH



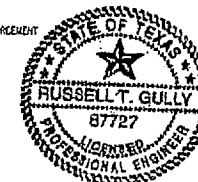
SECTION Y-Y



3 OVAL TROUGH



SECTION Z-Z



Russell T. Gully
7.28.09

SIC ENGINEERING
SURVEYING • LABORATORY • ENVIRONMENTAL
1100 SOUTH BRITAIN BLVD
SAN ANGELO, TEXAS 76901
PHONE: 361-3333
FAX: 361-5577
WWW.SIC-ENG.COM
PE REGISTRATION NUMBER: 147698

LANDERS PRECAST CONCRETE
SAN ANGELO, TEXAS

PRE-CAST CONCRETE TROUGH PLAN & SECTION

REVISIONS	
7/28/09	COVER
	REQUIREMENTS
	UPDATED
DWG. BY: JJP	DWG. DATE: 07-28-2009
JOB NO. 09-A-0773	SHEET NO.
SCALE: 1/4"=1'	C1.0

2x6
Round cement
423 gals.

I was provided a copy of the Construction Specifications
Participant *Russell T. Gully* Date 3-2-0