



EMERGENCY
DEPARTMENT

AMARILLO VA HEALTH CARE SYSTEM
AMARILLO, TEXAS

Approved: VA Area Proj. Mgr.

V.A. PROJECT NO: VA258-P-0196
SBBL PROJECT NO:1010
DRAWN BY: MPZ
CHECKED BY: JLW
DATE: 07/15/2011

Δ	Date	Revision

Approved: Med. Cter. Director

Approved: Asst. Admin
Engineering Service

Approved: Asst. VA Medical
Director

Approved: Chief of Facilities

Approved: Chief of Engineering

Approved: Chief of Projects

CIVIL DETAIL
SHEET

48-GS-1.6

FINISHED GRADE
24" MANHOLE RING & COVER
1/2" MORTAR BETWEEN RINGS
THROAT RINGS TO FINISHED GRADE (MAX OF FOUR)

3'-4"

CIRCUMFERENTIAL REINFORCEMENT IN CONE AND SECTIONS: #2 REBAR @ 3" SPACING

6" 5'-0" DIAM. 6"

TY "A1"

FINISHED GRADE
24" MANHOLE RING & COVER
1/2" MORTAR BETWEEN RINGS
THROAT RINGS TO FINISHED GRADE (MAX OF FOUR)

VAR.

2'-10"

1'-0"

VAR.

NOTE: CAN USE MULTIPLE 2'-0" PRECAST SEGMENTS

4'-0"

5" 4'-0" DIAM. 5"

TY "A"

GENERAL NOTES:
FOR MANHOLES LOCATED WITHIN PAVED PORTIONS OF THE ROADWAY, THE COVER SHALL BE OF A TYPE THAT CAN BE BOLTED TO THE RING.
RINGS AND COVERS OF SLIGHTLY DIFFERENT DIMENSIONS BUT APPROXIMATELY THE SAME WEIGHT MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
CONCRETE STRENGTH: 4,000 P.S.I. MIN.
THE CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER FURNISH MANHOLES OF EQUIVALENT STRUCTURAL DESIGN.
ALTERNATE DESIGN DRAWINGS BEARING THE SEAL OF A REGISTERED ENGINEER WILL BE ACCEPTABLE FOR PRECAST CONSTRUCTION OF MANHOLES.

REIN. CONC. THROAT RING

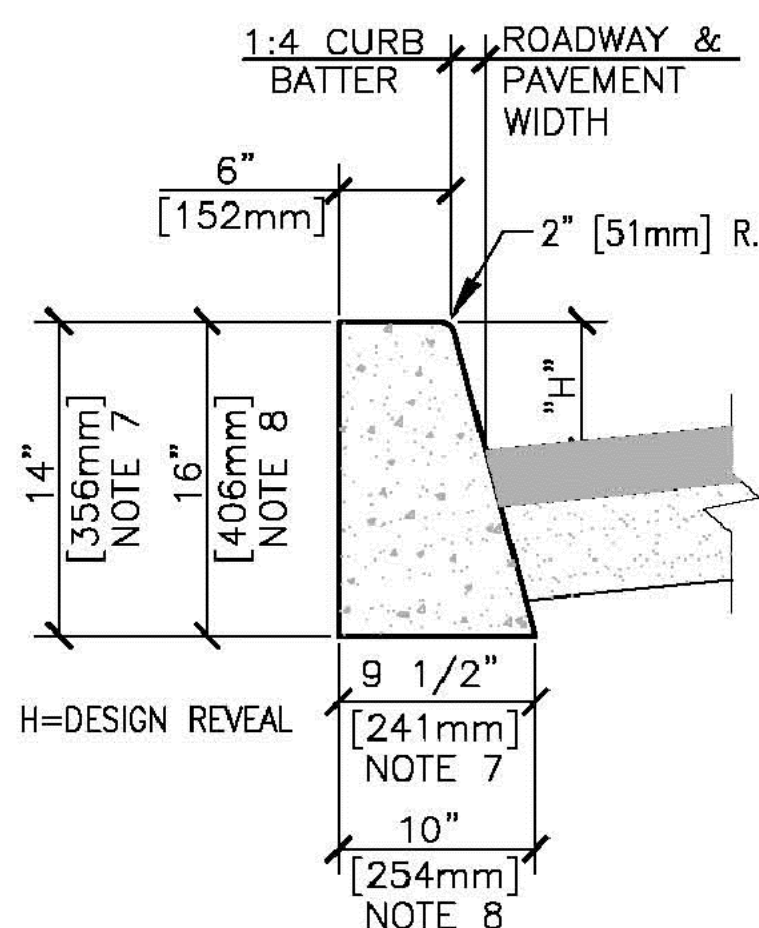
2 1/2" x 3" REIN.

34"

24" DIAM.

LID			RING		
"A"	"B"	WEIGHT	"C"	"D"	"H"
2'-2"	1"	174 lbs. (min)	2'-0"	2'-11 1/2"	5"

RING & COVER DETAILS
(FOR MANHOLE TY "A" AND "A1")
(SUBSIDIARY)



CONCRETE CURB AND TERMINAL SECTION

NTS

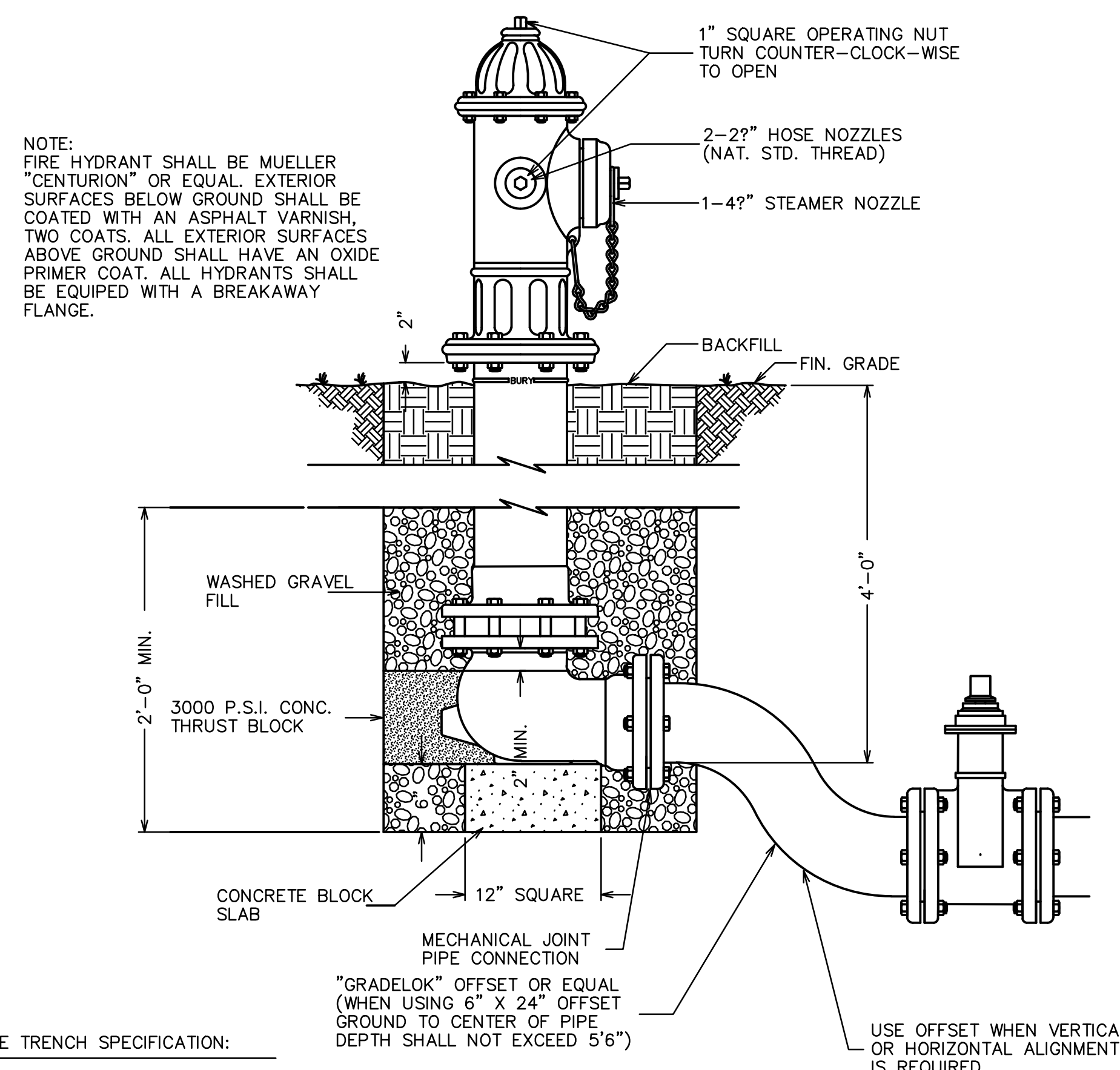


DETAIL TITLE / CONCRETE CURB AND TERMINAL SECTION

SCALE : NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD320523-17.DWG



FIRE HYDRANT DETAIL
(FOR FIRE HYDRANTS 4' TO 5'6" DEEP)

APPLICABLE TRENCH SPECIFICATION:

SPECIFICATION NO. 3.08 IS APPLICABLE AND MAY BE REQUIRED IN CONJUNCTION WITH THIS SPECIFICATION.

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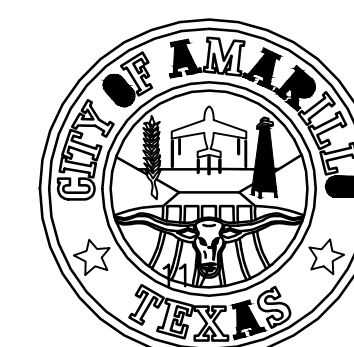
STANDARD DETAIL SHEET
(WATER)

DRAWN BY: *Anthony Sena*

APPROVED BY:


PATH:

HORIZ. SCALE
VERT. SCALE
W.O. NO.



UTILITIES DIVISION

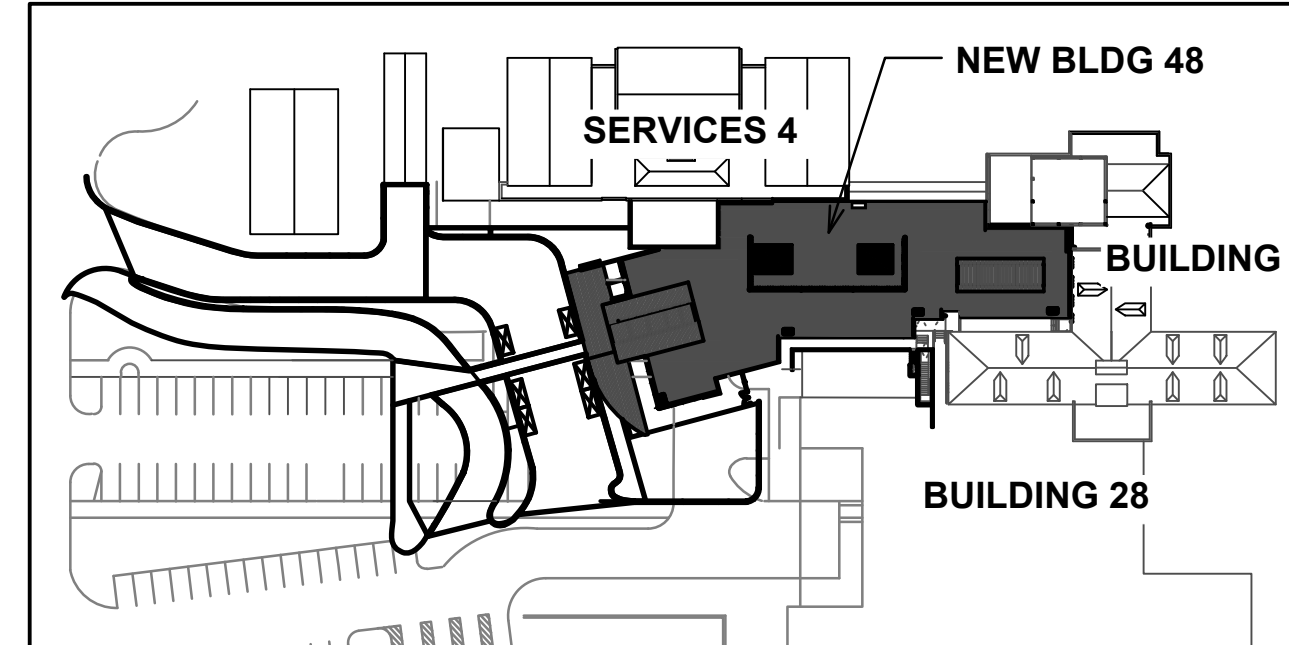
B.E.L. JOB No. 10-111



**RODERICK
ENGINEERING
LLC.**

CIVIL & STRUCTURAL ENGINEERS

6859 E. REMBRANDT AVE. SUITE 124 MESA, AZ 85212 PH 480-926-6333 FAX 480-926-3999	6350 N. CAMINO DE LA TIERRA SUITE 140 TUCSON, AZ 85741 PH 520-887-9416 FAX 520-887-9486
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KEY PLAN 