INFORMATION HANDOUT

For Contract No.10-0W4301

At San Joaquin County at various locations in and near Manteca and Stockton from 0.2 mile south of Austin road to 0.1 mile north of hammer lane overcrossing.

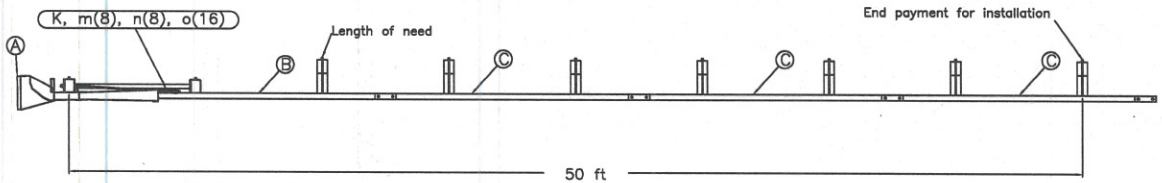
Identified by
Project ID-1000020607

MATERIALS INFORMATION

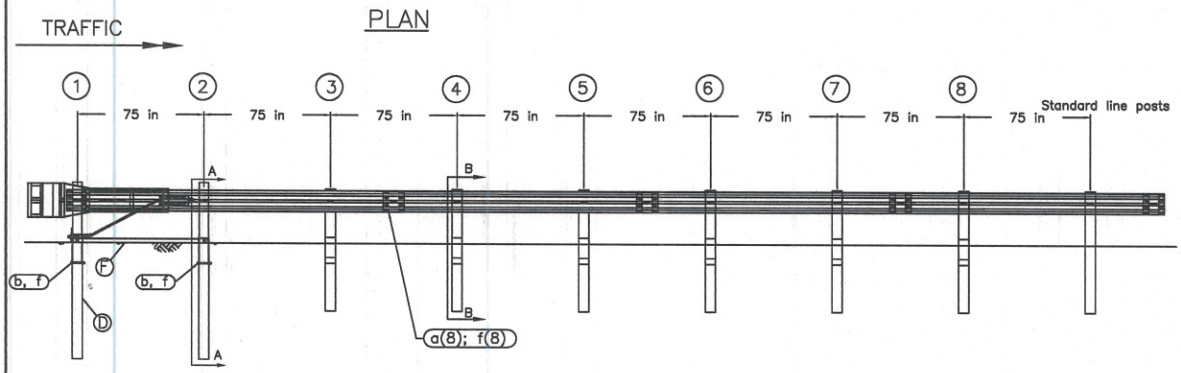
Manufacturer's Drawings for Alternative in-line Terminal Systems.

Manufacturer's Drawings for Alternative in-line Terminal Systems.

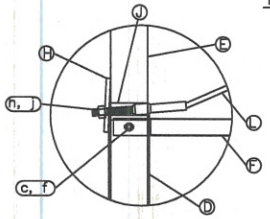
Water Source Information.



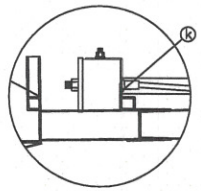
PLAN



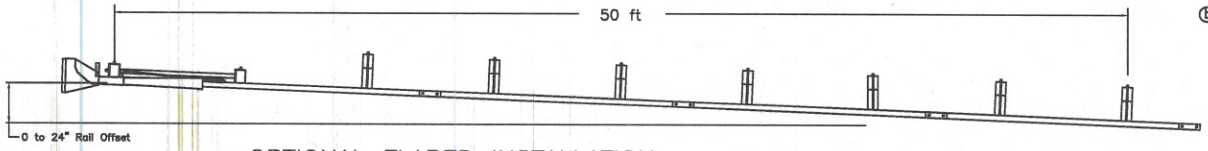
ELEVATION



POST #1 CONNECTION DETAIL



IMPACT HEAD CONNECTION DETAIL



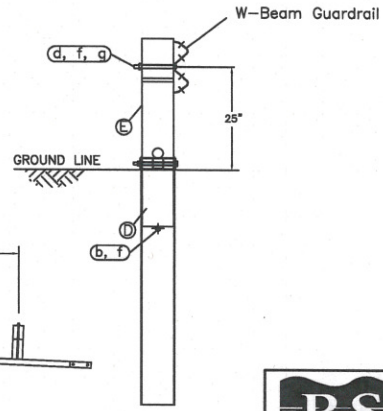
OPTIONAL FLARED INSTALLATION

25:1 maximum flare rate

GENERAL NOTES:

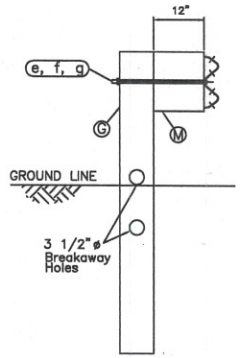
1. Breakaway posts are required with the SKT.
2. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
3. The SKT can be flared at a rate of up to 25:1 to prevent the impact head from encroaching on the shoulder.
4. The foundation tubes shall not protrude more than 4" above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
5. When rock is encountered, a 12" Ø post hole, 20" into the rock surface may be used if approved by the engineer. Granular material will be placed in the bottom of the hole, approximately 2.5" deep to provide drainage. The first two posts can be field cut to length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
6. The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.
7. A site evalution should be considered if there is less than 25' between the outlet side of the terminal and any adjacent driving lane.
8. The soil tubes may be driven with an approved driving head. They shall not be driven with the post in the tube.
9. The wood blockouts should be "toe-nailed" to the rectangular wood posts to prevent them from turning when the wood shrinks.

ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	IMPACT HEAD	S3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	S1303 MGS
C	3	W-BEAM GUARDRAIL, 12 Ga.	G1203 MGS
D	2	FOUNDATION TUBE	E731
E	2	BCT WOOD POST	P650 MGS
F	1	GROUND STRUT	E780
G	6	CRT WOOD POST	P671 MGS
H	1	BEARING PLATE	E750
J	1	PIPE SLEEVE	E740
K	1	CABLE ANCHOR BOX	S760
L	1	BCT CABLE ANCHOR ASSEMBLY	E770
M	6	MGS TIMBER BLOCKOUT OR EQUIV.	P618
		HARDWARE (ALL DIMENSIONS IN INCHES)	
a	24	5/8ø x 1 1/4 SPLICE BOLT	B580122
b	2	5/8ø x 7 1/2 HEX BOLT	B580754
c	2	5/8ø x 10 HEX BOLT	B581004
d	1	5/8ø x 10 H.G.R. BOLT	B581002
e	6	5/8ø x 22 H.G.R. BOLT	B582202
f	35	5/8ø H.G.R. NUT	N050
g	7	H.G.R. WASHER	W050
h	2	1 ANCHOR CABLE HEX NUT	N100
j	2	1 ANCHOR CABLE WASHER	W100
k	2	3/8 x 3 LAG SCREW	E350
m	8	CABLE ANCHOR BOX SHOULDER BOLT	SB58A
n	8	1/2 A325 STRUCTURAL NUT	N055A
o	16	1 1/16 OD x 9/16 ID A325 STR. WASHER	W050A



SECTION A-A

Post #2



SECTION B-B

Posts 3 thru 8

RSI
Road Systems, Inc.
Big Spring, TX
Phone: 432-263-2435
or Phone: 330-346-0721

Sequential Kinking Terminal
SKT - Assembly

Midwest Guardrail System
Wood Post System

Sheet:	Date:	By:	Drawing Name:	Scale:	Rev:
A1	12/01/04	JRR	SKT-MGS-W-US	NONE	0

ET-31™ Guardrail End Treatment
NCHRP Report 350 Test Level 3
System Length 53'-1 1/2" (16.19 m)

For specific assembly, maintenance, or repair details refer to the state or specifying agency's standard drawings and/or Trinity standard layout drawings.

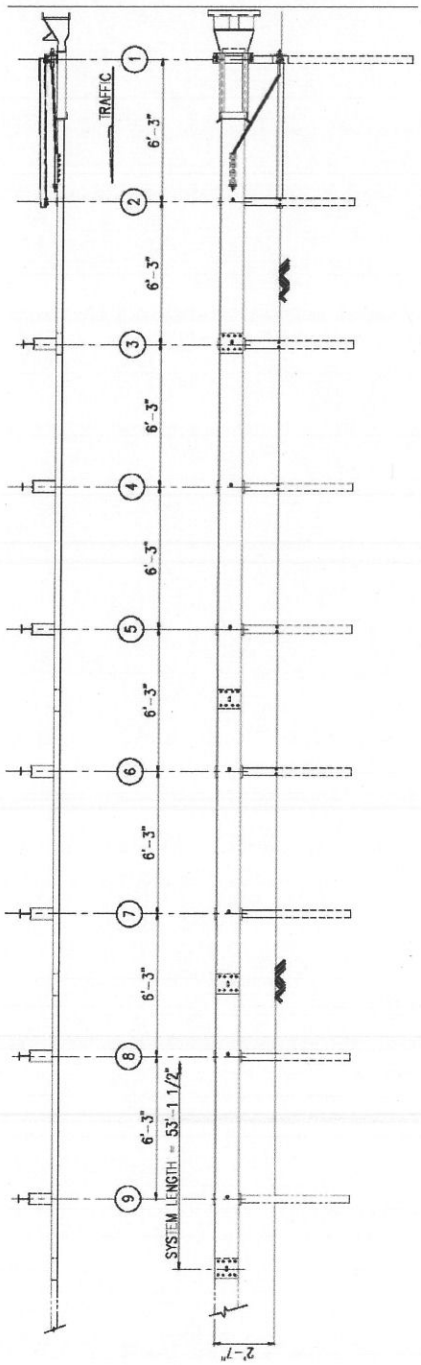


Figure 4 (TL-3)

[This drawing represents one version of the 53'-1 1/2" (16.19 m) system]

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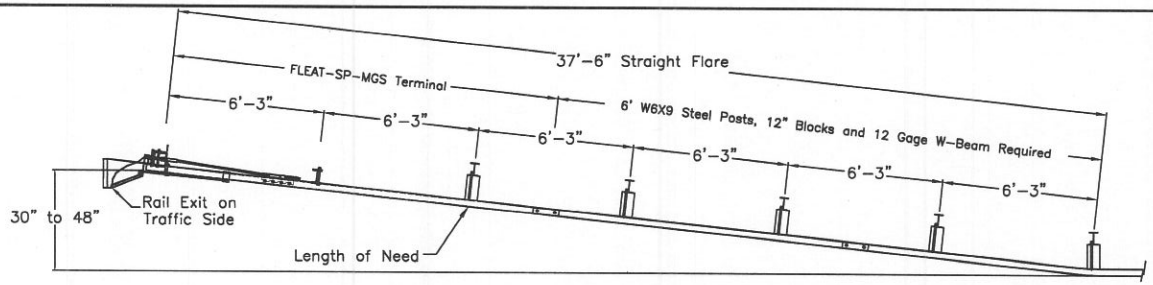
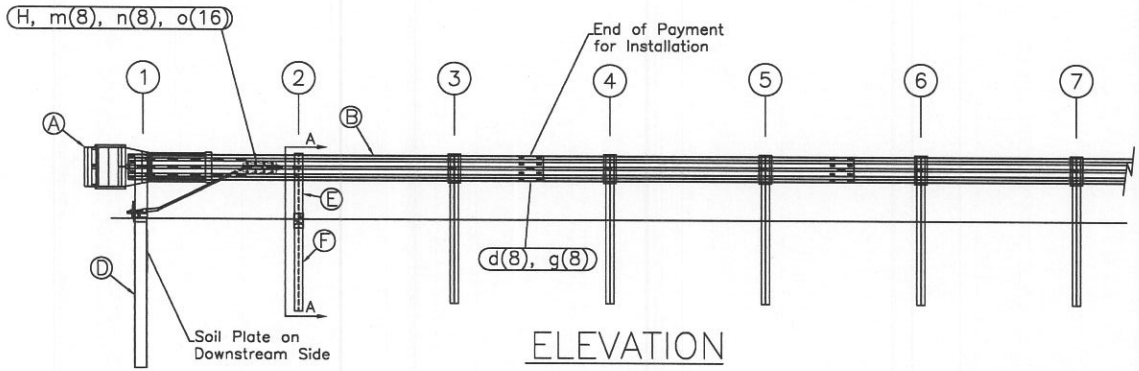
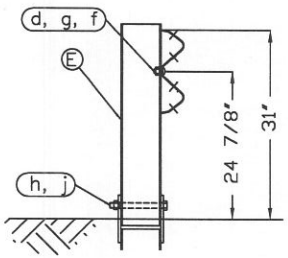


PLAN

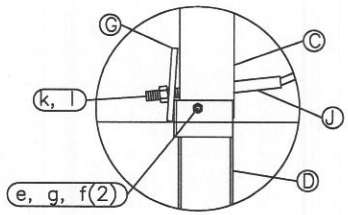
TRAFFIC



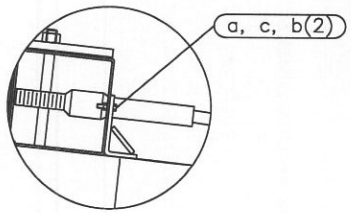
ELEVATION



SECTION A–A
Post #2



Post #1 Connection Detail



Impact Head Connection Detail

ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	IMPACT HEAD	F3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	MGS-SF1303
C	1	FIRST POST TOP (6X6X¼" Tube)	TPHP1A
D	1	FIRST POST BOTTOM (6' W6X15)	TPHP1B
E	1	SECOND POST ASSEMBLY TOP	UHP2A
F	1	SECOND POST ASSEMBLY BOTTOM	HP3B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
		HARDWARE (ALL DIMENSIONS IN INCHES)	
a	2	5/16 x 1 HEX BOLT GRD 5	B5160104A
b	4	5/16 WASHER	W0516
c	2	5/16 HEX NUT	N0516
d	9	5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2)	B580122
e	1	5/8 Dia. x 9 HEX BOLT GRD 5	B580904A
f	3	5/8 WASHER	W050
g	10	5/8 Dia. H.G.R NUT	N050
h	1	3/4 Dia. x 8 1/2 HEX BOLT GRD A449	B340854A
j	1	3/4 Dia. HEX NUT	N030
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	CABLE ANCHOR BOX SHOULDER BOLT	SB58A
n	8	1/2 A325 STRUCTURAL NUT	N055A
o	16	1 1/16 OD x 9/16 ID A325 STR. WASHER	W050A

GENERAL NOTES:
1. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
2. The lower sections of the Posts 1&2 shall not protrude more than 4 in above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
3. The lower sections of the hinged posts should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
4. When competent rock is encountered, a 12" Ø post hole, 20 in. deep cored into the rock surface may be used if approved by the engineer for post 1. Granular material will be placed in the bottom of the hole, approximately 2.5" deep to provide drainage. The first post can be field cut to length, placed in the hole and backfilled with suitable backfill. The soil plate may be trimmed if required.
5. The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

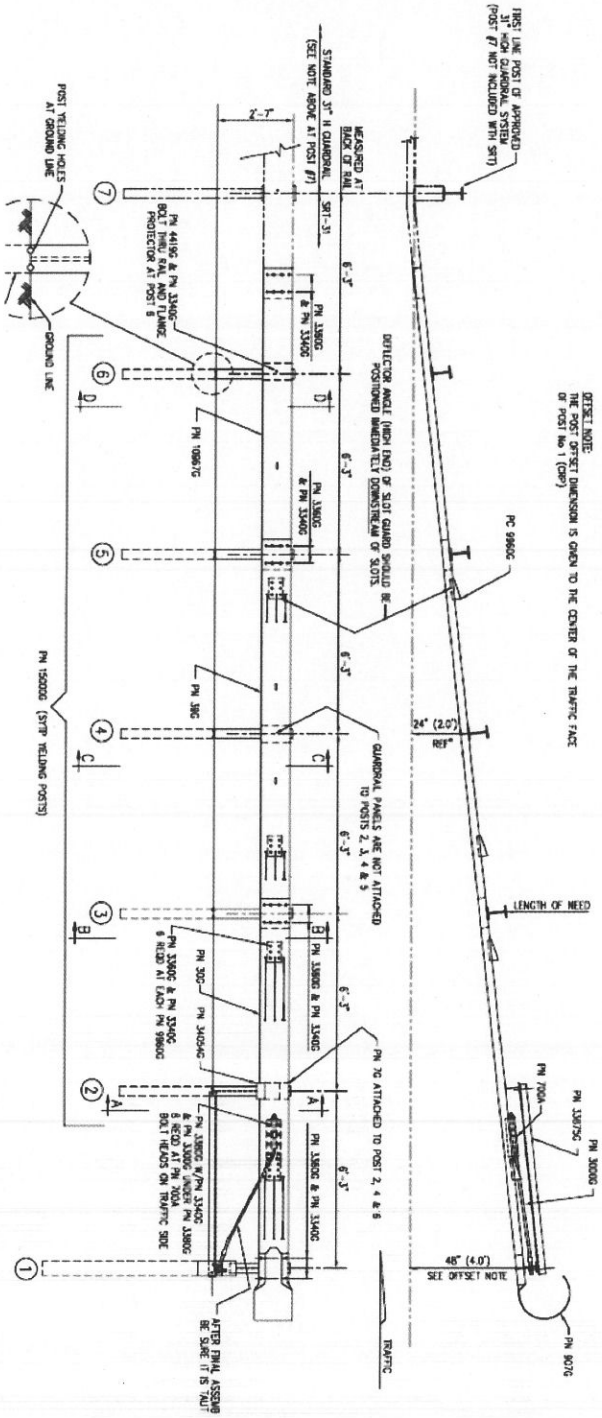
RSI
Road Systems, Inc.
Big Spring, TX
Phone: 432-263-2435
or Phone: 330-346-0721

FLEAT-SP-MGS Terminal
Midwest Guardrail System
31" Top of Rail

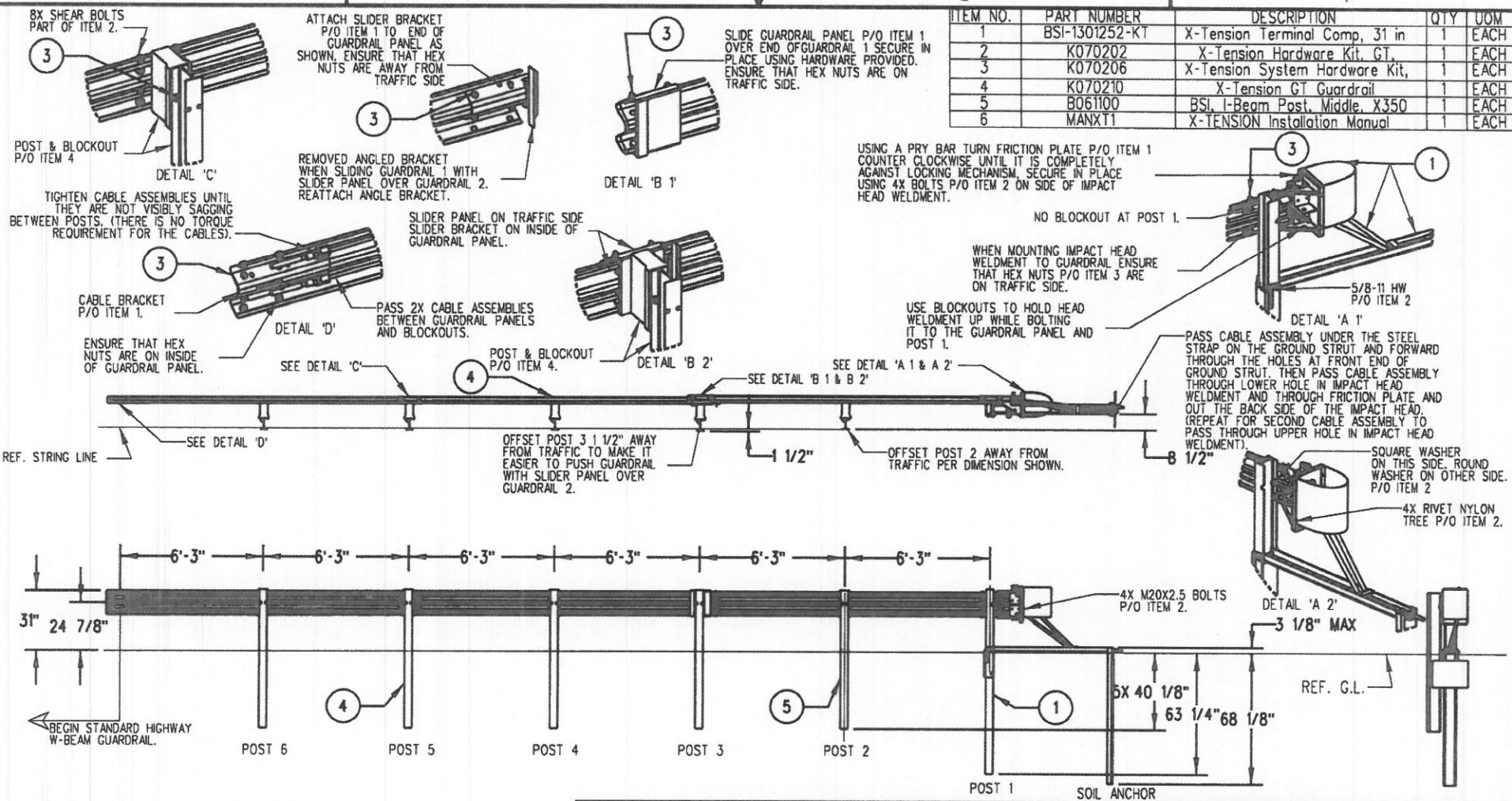
Sheet: 1
Date: 02/24/10
By: JRR
Drawing Name: FLT-SP-S-MGS
Scale: None
Rev: 0

SRT™-31 SYSTEM

FOR SPECIFIC INSTALLATION, MAINTENANCE, OR REPAIR DETAILS, REFER TO THE STATE/SPECIFYING AGENCY'S STANDARD DRAWING(S) AND/OR TRINITY STANDARD LAYOUT DRAWINGS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UOM
1	BSI-1301252-KT	X-Tension Terminal Comp, 31 in	1	EACH
2	K070202	X-Tension Hardware Kit, GT,	1	EACH
3	K070206	X-Tension System Hardware Kit,	1	EACH
4	K070210	X-Tension GT Guardrail	1	EACH
5	B061100	BSI, I-Beam Post, Middle, X350	1	EACH
6	MANXT1	X-TENSION Installation Manual	1	EACH



NOTES: UNLESS OTHERWISE SPECIFIED.

1. SYSTEM TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
2. ONLY TIGHTEN THE CABLE ASSEMBLIES USING THE NUTS AT THE CABLE BRACKET (SEE DETAIL 'D'). DO NOT TIGHTEN THE CABLES AT THE FRONT OF THE GROUND ANCHOR.
3. WHEN DRIVING STEEL POST, ENSURE THAT A DRIVING CAP WITH TIMBER OR PLASTIC INSERT IS USED TO PREVENT DAMAGE TO THE GALVANIZING TO THE TOP OF THE POST.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS ± 1/16 DECIMAL .XX = ±.03 .XXX = ±.010 ANGLES ±1/2°
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING

APPROVALS

DRAWN BY:	NMV
DRAWN DATE:	2/08/13
APPR'D BY:	JMT
APPR'D DATE:	2/08/13

REV	ECN#	DATE
B	2087	03/02/13
A	2022	2/08/13

LINDSAY TRANSPORTATION SOLUTIONS

BARRIER SYSTEMS INC.
3333 Voss Valley Parkway Ste 800
Vacaville, CA 95688
Tel: 888-800-3691
www.barriersystemsinc.com

TITLE: X-TENSION GUARDRAIL TERMINAL SYSTEM STEEL POST WITH COMPOSITE BLOCKOUT 31" RAIL HEIGHT

SIZE: B | DWG NO.: XTGTSS5 | REV.: B

SCALE: 1:50 | SHEET: 1 OF 1

Doc. B100108

Dahir, Khalid@DOT

From: Lawrence, Steve A@DOT
Sent: Tuesday, June 17, 2014 12:12 PM
To: Dahir, Khalid@DOT
Cc: Teczon, Pat L@DOT
Subject: FW: Fwd: Water Source for Project 10-0W4301

Hello Khalid,

Here is a water source for 10-0W4301. Let me know if you need anything else.

Thanks,

Steve Lawrence

1976 MLK Blvd.
Stockton, CA, 95205
Office Phone (209)948-7960
Fax (209)948-7036

From: Antonio Tovar [mailto:Antonio.Tovar@stocktongov.com]
Sent: Tuesday, June 17, 2014 12:07 PM
To: Lawrence, Steve A@DOT
Cc: Sandi Norman
Subject: Re: Fwd: Water Source for Project 10-0W4301

Steve, within the City's service area, construction water at a fire hydant is available. At the appropriate time, please have your contractor report to the City's Permit Center for the permit and to make arrangements for the delivery of a water meter. The City does not have any non-potable water sources, and for areas outside the City service area (mostly central Stockton), please see the California Water Service Company.

Thanks.

- Tony T.

>>> Sandi Norman Thursday, June 12, 2014 9:08 AM >>>

>>> "Lawrence, Steve A@DOT" <steve.lawrence@dot.ca.gov> 6/12/2014 8:42 AM >>>
Hello Sandi,

Hope this is going to work. I can't believe I did that. lol

Thanks,

Steve Lawrence
1976 MLK Blvd.
Stockton, CA, 95205
Office Phone (209)948-7960
Fax (209)948-7036

From: Lawrence, Steve A@DOT
Sent: Wednesday, June 11, 2014 9:29 AM
To: 'sandi.norman@stockton.gov.com'
Cc: Teczon, Pat L@DOT
Subject: Water Source for Project 10-0W4301

Hello Sandi,

As per our phone conversation this morning, I am looking for 2 water sources for our project on Hwy 99 in the Stockton city limits. I'm looking for a Non-Potable and a Potable water source. We estimate that we will need about 15,000 gallons/day with a total of 415,000 gallons for the project. My question to you is, Can the city of Stockton supply the amount of water we need during construction from September 2014 Thru May 2015?
Thanks for your help.

Steve Lawrence
1976 MLK Blvd.
Stockton, CA, 95205
Office Phone (209)948-7960
Fax (209)948-7036