

# **INFORMATION HANDOUT**

**For Contract No. 06-0S3004  
At 06-Ker-33,119-19.6/27.0; 20.2/27.3**

**Identified by  
Project ID 0614000187**

## **MATERIALS INFORMATION**

Water Source Information

Alternative Flared Terminal Systems

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Project ID 0614000187

## MATERIALS INFORMATION

Water Source Information

West Kern Water District  
800 Kern St  
PO Box 1105  
Taft Ca 93268  
[rosa@wkwd.org](mailto:rosa@wkwd.org)

## Lee, Veronica N@DOT

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**From:** Anguiano, Trinidad@DOT  
**Sent:** Thursday, January 22, 2015 9:58 AM  
**To:** Lee, Veronica N@DOT  
**Cc:** Rastegar, Maryam@DOT  
**Subject:** FW: Water Source for Construction on State Routes 33 and 119

Good morning Veronica,

Below is the response from West Kern Water District, which does not foresee any issues with providing a water source for project 06-0S3001.

TRINIDAD ANGUIANO  
PAVEMENT PRESERVATION  
(559) 445-6642

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**From:** Rosa Rodriguez [<mailto:Rosa@wkwd.org>]  
**Sent:** Thursday, January 22, 2015 9:20 AM  
**To:** Anguiano, Trinidad@DOT  
**Subject:** RE: Water Source for Construction on State Routes 33 and 119

Good Morning Trinidad,

I spoke with Wayne White, our Field Services Supervisor and he said we can provide that amount of water for your project. We would need a \$900.00 deposit for the hydrant meter and to complete an application for water service a couple a days prior to start date. Please let me know if you have any other questions.

Thanks,

*Rosa Rodriguez*  
*Accounting Technician*  
*West Kern Water District*  
*800 Kern St*  
*PO Box 1105*  
*Taft Ca 93268*  
[\*rosa@wkwd.org\*](mailto:rosa@wkwd.org)

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**From:** Anguiano, Trinidad@DOT [<mailto:trinidad.anguiano@dot.ca.gov>]  
**Sent:** Thursday, January 22, 2015 8:41 AM  
**To:** Rosa Rodriguez  
**Subject:** Water Source for Construction on State Routes 33 and 119

Good morning Ms. Rosa,

I am currently working on a project on State Routes 33 and 119 in Kern County. This project will overlay the existing surface with a thin layer of Asphalt and I am trying to secure a water source for construction. Water needed during construction is about 95,000 gallons (0.3 foot-acre). Most of this quantity will be used for compaction of the asphalt.

Average use of 800 gallons is anticipated with peak draw of about 2500 gallons per day for a short period. Construction will be in the summer of 2015.

Could you please confirm if West Kern Water District could be used as possible source of water for construction of this project?

Thank you!

TRINIDAD ANGUIANO  
PAVEMENT PRESERVATION  
(559) 445-6642

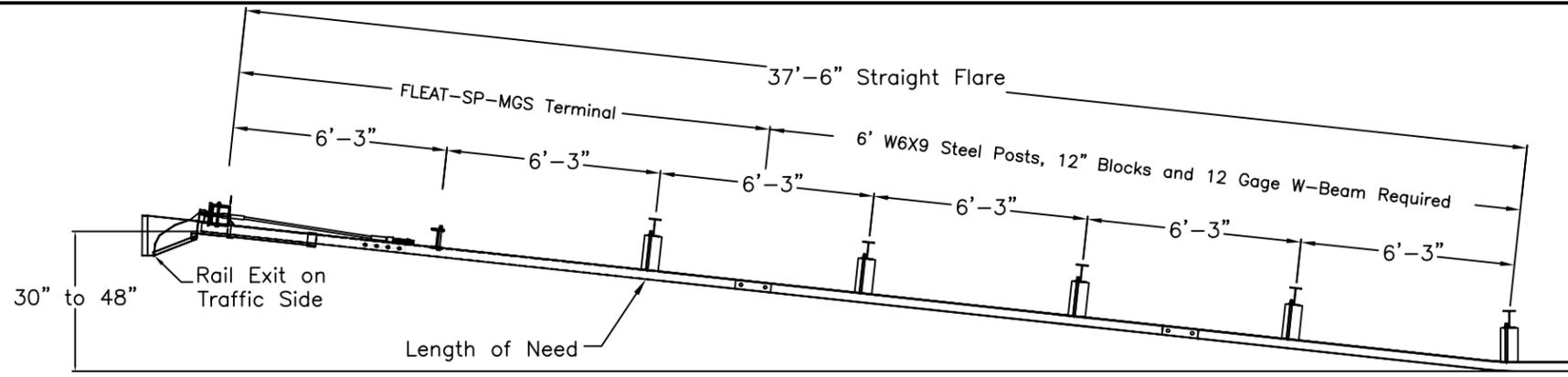
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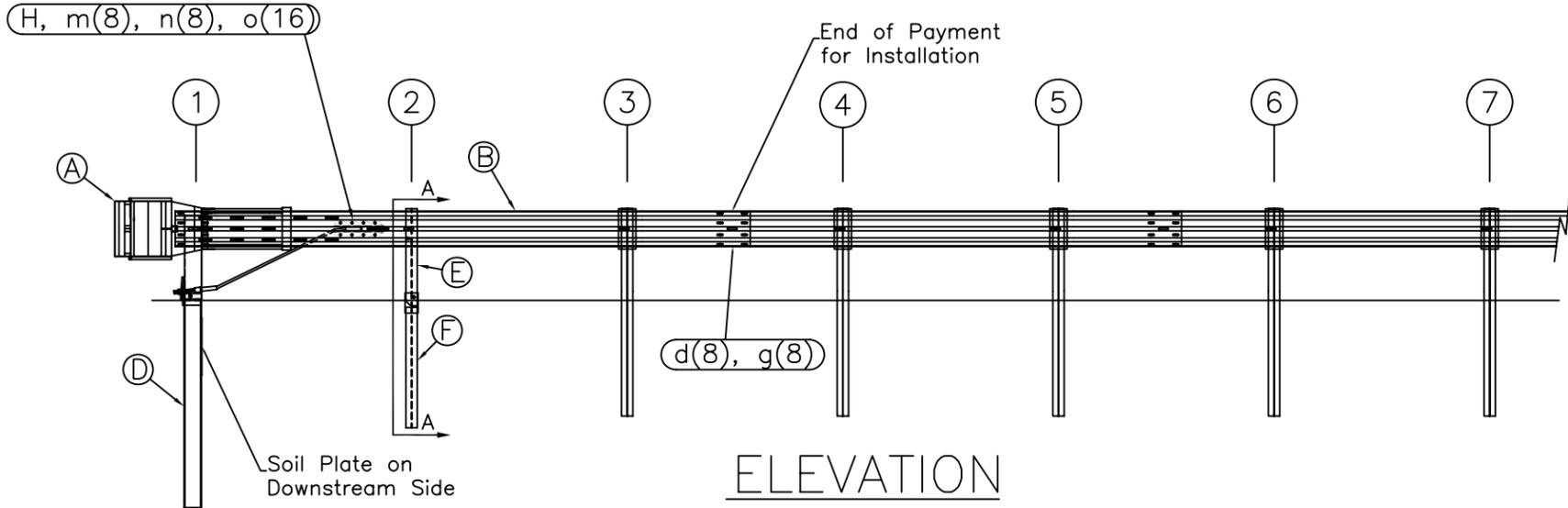
**Identified by  
Project ID 0614000187**

## **MATERIALS INFORMATION**

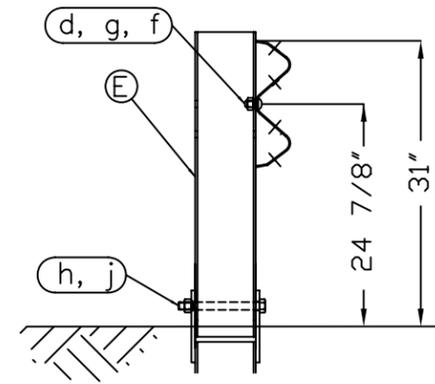
Alternative Flared Terminal Systems



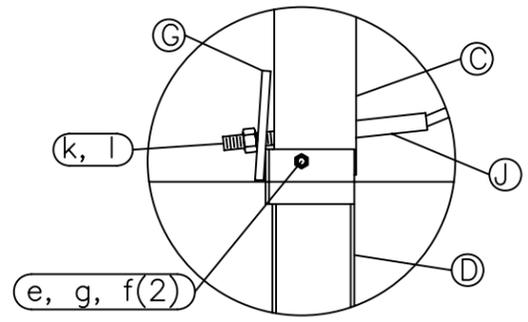
PLAN



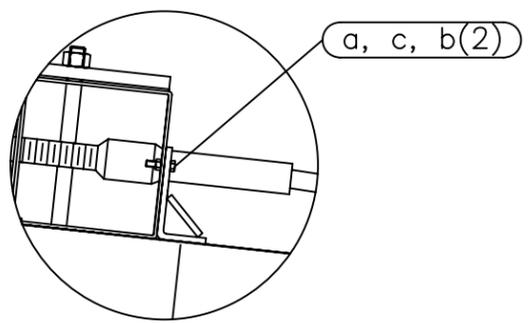
ELEVATION



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 (6X6X $\frac{1}{8}$ " 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:

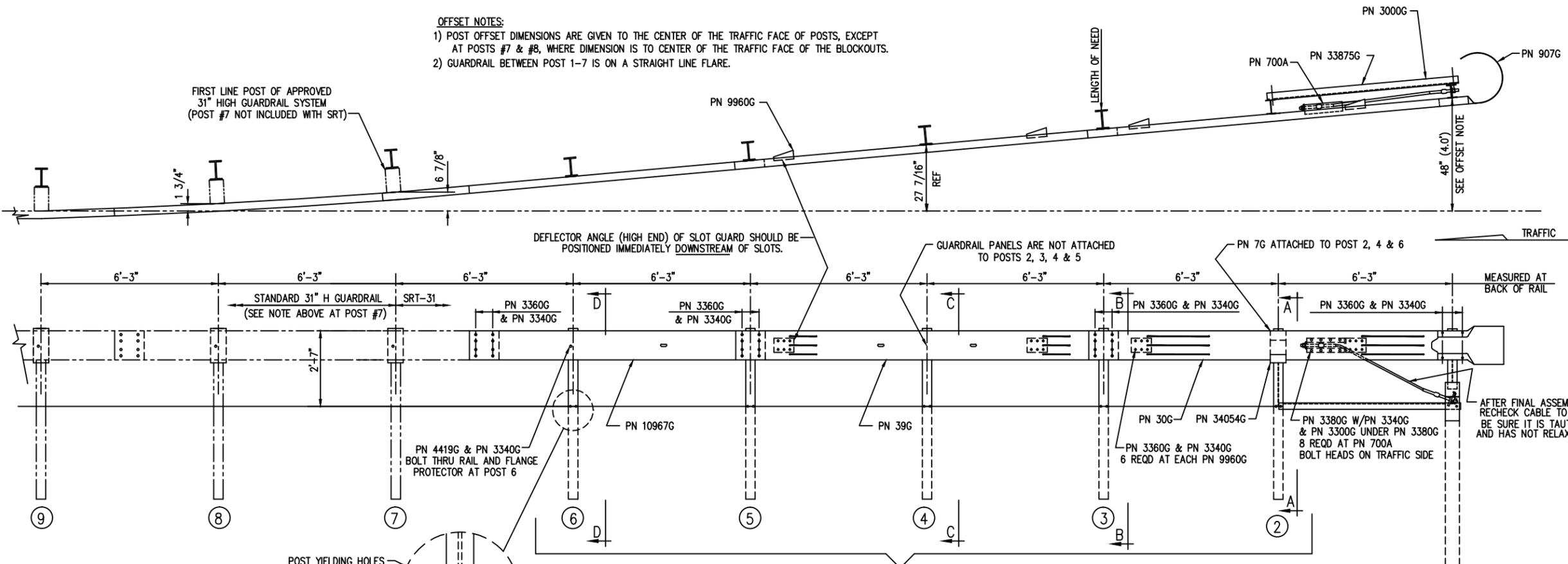
- All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
- The lower sections of the Posts 1&2 shall not protrude more than 4 in above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
- The lower sections of the hinged posts 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.
- 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.
- 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.

Big Spring, TX  
Phone: 432-263-2435  
or Phone: 330-346-0721

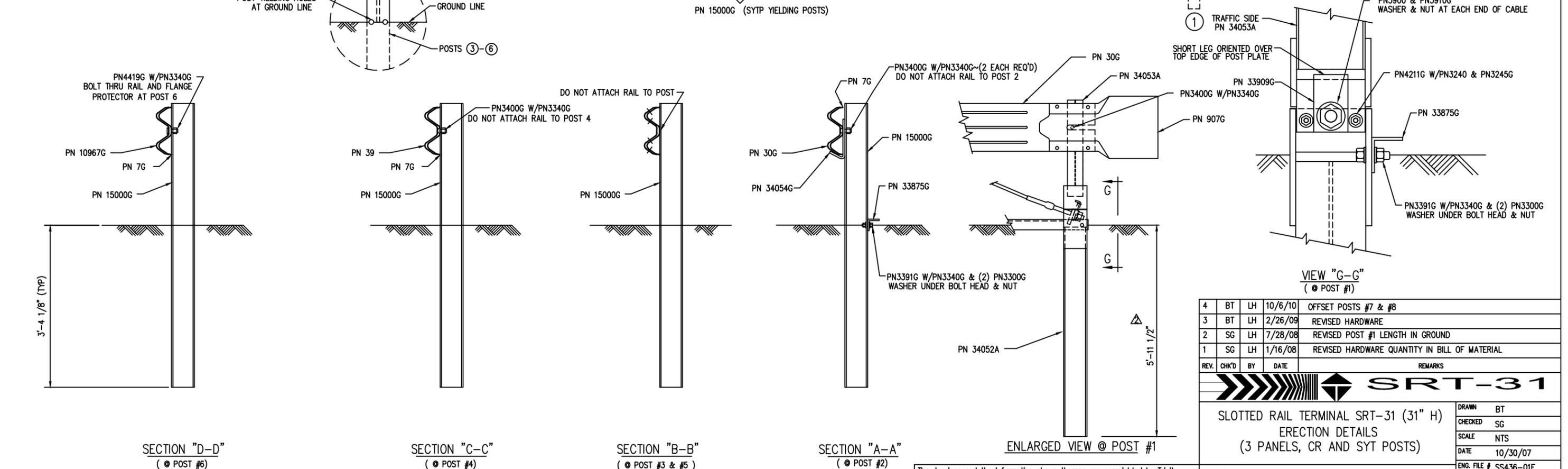
<b>FLEAT-SP-MGS Terminal Midwest Guardrail System 31" Top of Rail</b>		Sheet:	1
		Date:	02/24/10
Drawing Name: <b>FLT-SP-S-MGS</b>		By:	JRR
		Scale:	None
Scale: None		Rev:	0

**OFFSET NOTES:**  
 1) POST OFFSET DIMENSIONS ARE GIVEN TO THE CENTER OF THE TRAFFIC FACE OF POSTS, EXCEPT AT POSTS #7 & #8, WHERE DIMENSION IS TO CENTER OF THE TRAFFIC FACE OF THE BLOCKOUTS.  
 2) GUARDRAIL BETWEEN POST 1-7 IS ON A STRAIGHT LINE FLARE.

FIRST LINE POST OF APPROVED 31" HIGH GUARDRAIL SYSTEM (POST #7 NOT INCLUDED WITH SRT)



BILL OF MATERIAL		
PN	QTY	DESCRIPTION
7G	3	12/6"/FLG PROTECTOR (AT POST 2, 4 & 6)
30G	1	12/12/6"/S SRT-1 (GUARDRAIL)
39G	1	12/12/6"/S SRT-2 (GUARDRAIL)
700A	1	CABLE ANCHOR BRACKET
907G	1	12/BUFFER/ROLLED (TERMINAL)
3000G	1	3/4 x 6'-6" CABLE
<b>HARDWARE</b>		
3240G	2	5/16" WASHER (AT POST 1)
3245G	2	5/16" HEX NUT (AT POST 1)
3300G	12	5/8" WASHER
3340G	67	5/8" HEX HGR NUT
3360G	52	5/8" x 1 1/4" HGR SPLICE BOLT
3380G	8	5/8" x 1 1/2" HEX HD BOLT
3400G	4	5/8" x 2" HGR POST BOLT (AT POSTS 1, 2 & 4)
3391G	2	5/8" x 1 3/4" HEX BOLT (A325) (AT STRUT)
3900G	2	1" WASHER (AT CABLE)
3910G	2	1" HEX NUT (AT CABLE)
4211G	2	5/16" x 1 3/4" HEX BOLT (AT POST 1)
4419G	1	5/8" x 1 3/4" COUNTERSUNK HD BOLT (AT POST 6)
9960G	4	SLOT GUARD BRACKET
10967G	1	12/9/4.5/31.5/S SRT-3 (GUARDRAIL)
15000G	5	6'-0" SYT POST (W6 X 8.5)
33909G	1	CABLE ANCHOR BRACKET (AT POST 1)
33875G	1	ANGLE STRUT 3 x 3 x 1/4
34052A	1	CR POST 1 BOT (W6 X 15)
34053A	1	CR POST 1 TOP (W6 X 8.5)
34054G	1	POST SHELF ANGLE (AT POST 2)



REV.	CHK'D	BY	DATE	REMARKS
4	BT	LH	10/6/10	OFFSET POSTS #7 & #8
3	BT	LH	2/26/09	REVISED HARDWARE
2	SG	LH	7/28/08	REVISED POST #1 LENGTH IN GROUND
1	SG	LH	1/16/08	REVISED HARDWARE QUANTITY IN BILL OF MATERIAL

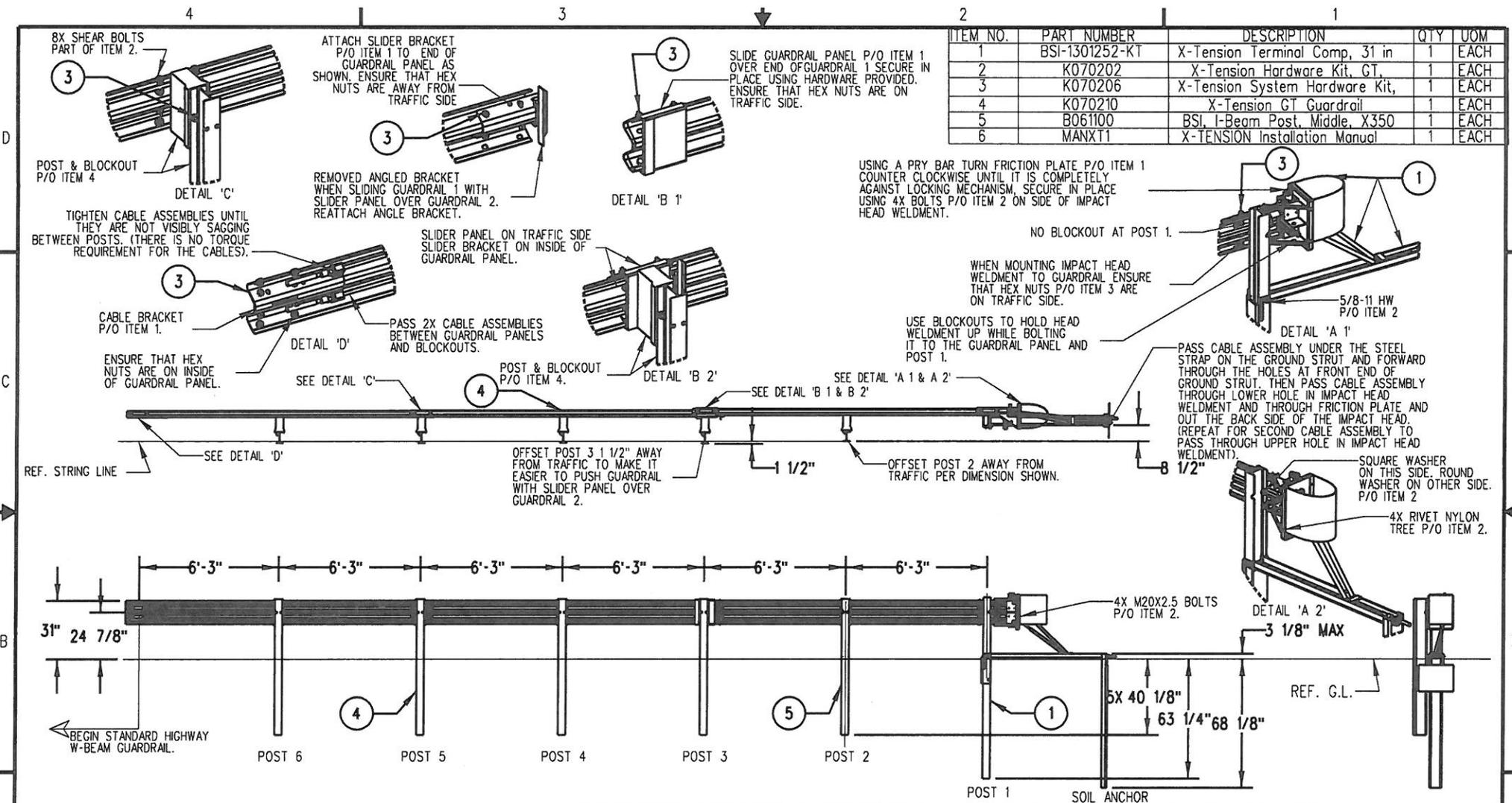
**SRT-31**

SLOTTED RAIL TERMINAL SRT-31 (31" H)  
ERECTION DETAILS  
(3 PANELS, CR AND SYT POSTS)

DRAWN	BT
CHECKED	SG
SCALE	NTS
DATE	10/30/07
ENG. FILE #	SS436-01E
SHT.No.	E1 OF 1
DRAWING NO.	SS 436
REV.	4

TRINITY HIGHWAY PRODUCTS, LLC.  
2525 STEMMONS FREEWAY  
DALLAS, TX 75207

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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	BSL I-Beam Post, Middle, X350	1	EACH
6	MANXT1	X-TENSION Installation Manual	1	EACH

- NOTES: UNLESS OTHERWISE SPECIFIED.
- SYSTEM TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
  - 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.
  - 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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<b>APPROVALS</b> <small>DRAWN BY: NMV</small> <small>DRAWN DATE: 2/08/13</small> <small>APPR'D BY: JMT</small> <small>APPR'D DATE: 2/08/13</small>		<small>THIRD ANGLE PROJECTION</small> 		<small>REV 2067 03/02/13</small> <small>REV 2022 2/08/13</small>	
<small>DO NOT SCALE DRAWING</small>		<small>REV ECN*</small>		<small>DATE SCALE 1:50</small>	
<small>1/2012 BARRIER SYSTEMS INC. 3333 Voco Valley Parkway, Ste 800, Vacaville, CA 95688, Tel: 800-800-5691, www.barriersystemsinc.com</small>				<small>REV. B</small>	