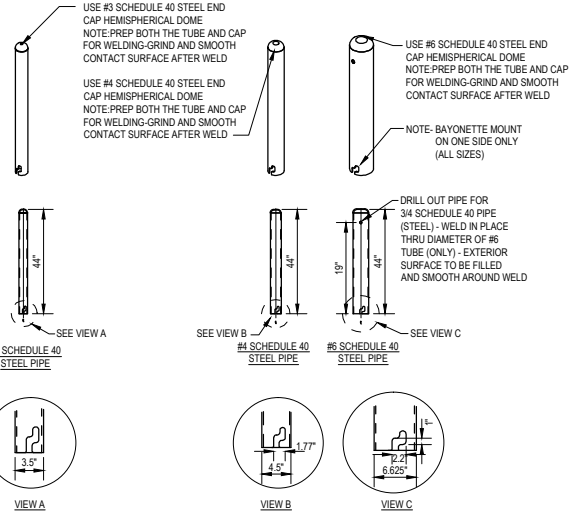


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TOLL FREE: 1-877-727-7347
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USE #3 SCHEDULE 40 STEEL END CAP HEMISPHERICAL DOME
NOTE: PREP BOTH THE TUBE AND CAP FOR WELDING-GRIND AND SMOOTH CONTACT SURFACE AFTER WELD

USE #4 SCHEDULE 40 STEEL END CAP HEMISPHERICAL DOME
NOTE: PREP BOTH THE TUBE AND CAP FOR WELDING-GRIND AND SMOOTH CONTACT SURFACE AFTER WELD

NOTE: BAYONETTE MOUNT ON ONE SIDE ONLY (ALL SIZES)

DRILL OUT PIPE FOR 3/4 SCHEDULE 40 PIPE (STEEL) - WELD IN PLACE THRU DIAMETER OF #6 TUBE (ONLY) - EXTERIOR SURFACE TO BE FILLED AND SMOOTH AROUND WELD


SEE VIEW A
SEE VIEW B
SEE VIEW C

VIEW A
VIEW B
VIEW C

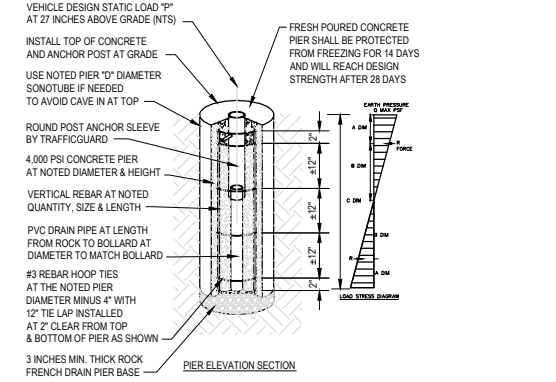
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 4209-024.

ROUND POST TWIST-IN
MODEL RPT3501F - TRAFFICGUARD® ROUND POST "TWIST-IN" WITH FLANGE (3.5" OD), ASSEMBLY DETAIL

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VEHICLE DESIGN STATIC LOAD "P" AT 27 INCHES ABOVE GRADE (NTS)

FRESH Poured CONCRETE PIER SHALL BE PROTECTED FROM FREEZING FOR 14 DAYS AND WILL REACH DESIGN STRENGTH AFTER 28 DAYS

INSTALL TOP OF CONCRETE AND ANCHOR POST AT GRADE

USE NOTED PIER "D" DIAMETER SONOTUBE IF NEEDED TO AVOID CAVE IN AT TOP

ROUND POST ANCHOR SLEEVE BY TRAFFICGUARD

4,000 PSI CONCRETE PIER AT NOTED DIAMETER & HEIGHT

VERTICAL REBAR AT NOTED QUANTITY, SIZE & LENGTH

PVC DRAIN PIPE AT LENGTH FROM ROCK TO BOLLARD AT DIAMETER TO MATCH BOLLARD

#3 REBAR HOOP TIES AT THE NOTED PIER DIAMETER MINUS 4" WITH 12" TIE LAP INSTALLED AT 2' CLEAR FROM TOP & BOTTOM OF PIER AS SHOWN


3 INCHES MIN. THICK ROCK FRENCH DRAIN PIER BASE

PIER ELEVATION SECTION

NOTES:
1. THIS IS A GUIDELINE FOR ESTIMATING. SITE SPECIFIC CONDITIONS SHOULD BE VERIFIED.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
4. DO NOT SCALE DRAWING.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 4209-024.

ROUND POST TWIST-IN
MODEL RPT3501 - TRAFFICGUARD® ROUND POST "TWIST-IN" (3.5" OD), FOOTING / ANCHOR SYSTEM DETAILS

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DESIGN AND CONSTRUCTION DATA SCHEDULE

- THE DESIGN LOAD IS A STATIC LOAD "P" LOCATED AT 27 INCHES ABOVE GRADE THAT SHOULD CAUSE FAILURE OF THE BOLLARD.
- THE EARTH PRESSURE VALUE IS SHOWN AT DESIGN LOAD AND THE OWNER SHOULD VERIFY THAT THE EARTH IS ADEQUATE TO WITHSTAND THE NOTED EARTH DESIGN PRESSURE.
- ANCHORAGE SYSTEMS BY OTHERS THAN TRAFFICGUARD MAY CAUSE PREMATURE FAILURE OF THE BOLLARD BY ROTATION OF ANCHORAGE AT DESIGN LOAD.

DESIGN FORMULA: EARTH PRESSURE MAXIMUM $Q_{max} = 3888 P / DB(A+B)$

NOTE: CONCRETE, FORM, ROCK, PVC DRAIN AND REBAR PROVIDED BY OTHERS

DESIGN LOAD P	BOLLARD Out Dia.	EARTH 1st Dia.	PIER HT. "C" MIN.	VERT. REBAR LENGTH	PIER HOOP TIES	CONCRETE	FRENCH DRAIN	PIER "D"
600 #	1.910"	1.620"	992 PSF	42 INCH	38 INCH	3	6 EA.	6 Cu Ft. 1.2 CF 8"
1200 #	2.440"	2.064"	1984 PSF	42 INCH	38 INCH	3	6 EA.	6 Cu Ft. 1.2 CF 8"
3000 #	3.500"	3.068"	2204 PSF	42 INCH	38 INCH	4	6 EA.	6 Cu Ft. 0.5 CF 18"
6000 #	4.500"	4.026"	4408 PSF	42 INCH	38 INCH	4	6 EA.	6 Cu Ft. 0.5 CF 18"
6000 #	4.500"	4.026"	2667 PSF	54 INCH	50 INCH	4	7 EA.	8 Cu Ft. 0.5 CF 18"
10000 #	5.563"	5.047"	4444 PSF	54 INCH	50 INCH	4	7 EA.	8 Cu Ft. 0.5 CF 18"
10000 #	5.563"	5.047"	3500 PSF	60 INCH	56 INCH	4	8 EA.	9 Cu Ft. 0.5 CF 18"
10000 #	5.563"	5.047"	2975 PSF	66 INCH	62 INCH	4	9 EA.	10 Cu Ft. 0.5 CF 18"
15000 #	6.625"	6.065"	3750 PSF	72 INCH	68 INCH	4	9 EA.	11 Cu Ft. 0.5 CF 18"
15000 #	6.625"	6.065"	3195 PSF	78 INCH	72 INCH	4	9 EA.	12 Cu Ft. 0.5 CF 18"
15000 #	6.625"	6.065"	3240 PSF	60 INCH	56 INCH	8	8 EA.	25 Cu Ft. 1.6 CF 30"
15000 #	6.625"	6.065"	3333 PSF	54 INCH	50 INCH	8	7 EA.	32 Cu Ft. 1.8 CF 36"

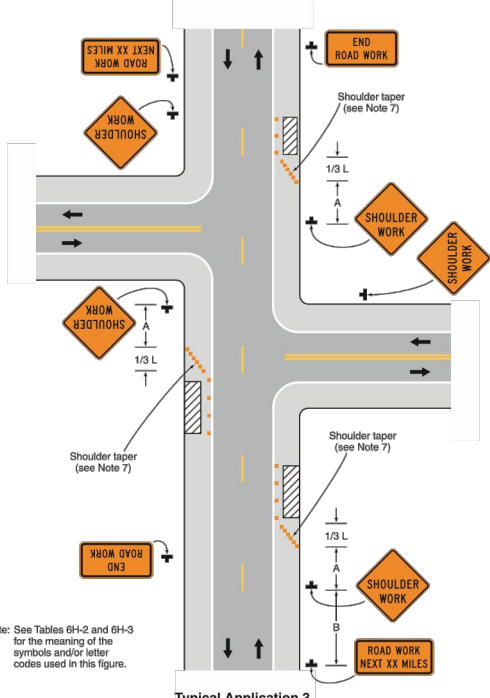
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
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3. DO NOT SCALE DRAWING.
4. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 4209-024.

ROUND POST TWIST-IN
MODEL RPT3501 - TRAFFICGUARD® ROUND POST "TWIST-IN" (3.5" OD), DESIGN & CONSTRUCTION DATA

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Page G39

Figure 6H-3. Work on the Shoulders (TA-3)



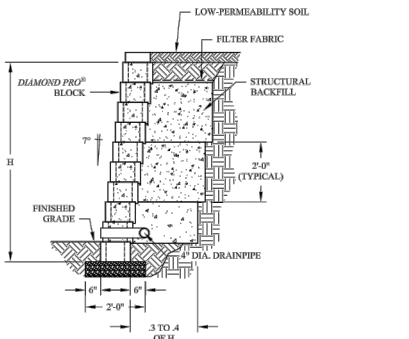
END ROAD WORK
SHOULDER WORK
SHOULDER TAPER (see Note 7)
ROAD WORK NEXT XX MILES

Shoulder taper (see Note 7)
Shoulder taper (see Note 7)

Typical Application 3

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

December 2009
Sect. 6H.01



LOW-PERMEABILITY SOIL
FILTER FABRIC
STRUCTURAL BACKFILL
DIAMOND PRO® BLOCK
FINISHED GRADE
2'-0" (TYPICAL)
3 TO 4 OF H (TYPICAL)
2'-0" (TYPICAL)
DRAIN PIPE

NOTES:
1. STRUCTURAL BACKFILL IS TO BE PLACED IN 8" TO 24-INCH (TYPICAL) LIFTS
2. STRUCTURAL BACKFILL MUST BE MANIPULATED INTO ALL VOIDS BETWEEN BLOCKS TO ENSURE ADEQUATE BOND BETWEEN BLOCK AND CONCRETE MASS.

ENSURE VOID AREAS BETWEEN UNITS ARE FILLED COMPLETELY


Anchor Wall Engineering, LLC
5959 Baker Road, Suite 390
Minnetonka, MN 55345

These graphic representations are intended for preliminary design purposes only and are not to be used for construction without the signature of a registered professional engineer.

Drawn By: AWE
Date: 4/15/2010
Scale: 3/8"=1'-0"

Project Information: Typical Details For the AnchorPro™ Retaining Wall System
DPSA059C

Model: GF8
3" Round Pathway Light

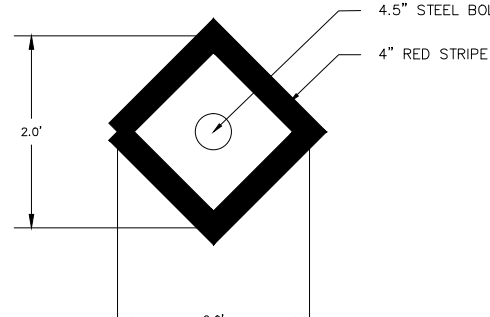


Operation Specifications		Lighting Specifications - Luminance (lm)	
Charge Time	3 Hours/8 Hours Cloudy	Model	Function
Operating Time	Up to 16 Hours	Color	Avg. Min. Max. Uniformity
Compressive Strength	43,500 N / 9,788 lbf	GF8	Steady
Water Proof Rating	IP65	Blue	9.7 7.3 12.1 60%
Operating Temperature	-40°F to 158°F	Yellow	19 15.6 23.2 67%
Dimensions (in)	Ø 3.75" x 2.06"	White	82.5 66.6 103.5 64%
Weight (lbs)	0.66lb		

Component Specifications	
Solar Module Size	53 x 52mm (2.1" x 2.1")
Single Mono-Crystal Solar Cell	0.366W
Solar Maximum Output Power	116.4mA
Solar Operating Current	3.15V
Solar Voltage	Ø 5 LED
LED Size	20mA per each
LED Current	0.2mA x 5pcs
LED Operating Current	Ø 5 LED
LED Voltage	3V
LED Wattage	3 mW (5 pcs)
LED Quantities	5 pcs
Pseudocapacitor	2.3V 120F
Number of Semicapacitors	1 pcs

Materials of Construction: Case: 304 SS/UL; Housing: T/C (SIBC Innovation Plastics Korea); Lens: B/C (LG CHEM, 1128-112); Electronic Controller: MAIN PCB

Solarlight Lighting, LLC 5600 N May, #100 Oklahoma City, OK 73131
Check website for latest specifications as a result of continuous improvement



4.5" STEEL BOLLARD
4" RED STRIPE
2.0'
2.0'
4" WIDE RED STRIPE
NTS

Design			
Drawn	JRA		
Checked	JRA		
Approved	WRS		
Squad			

CIVIL DETAILS

STATE JOB NO. 26879(04) Sheet No. 22