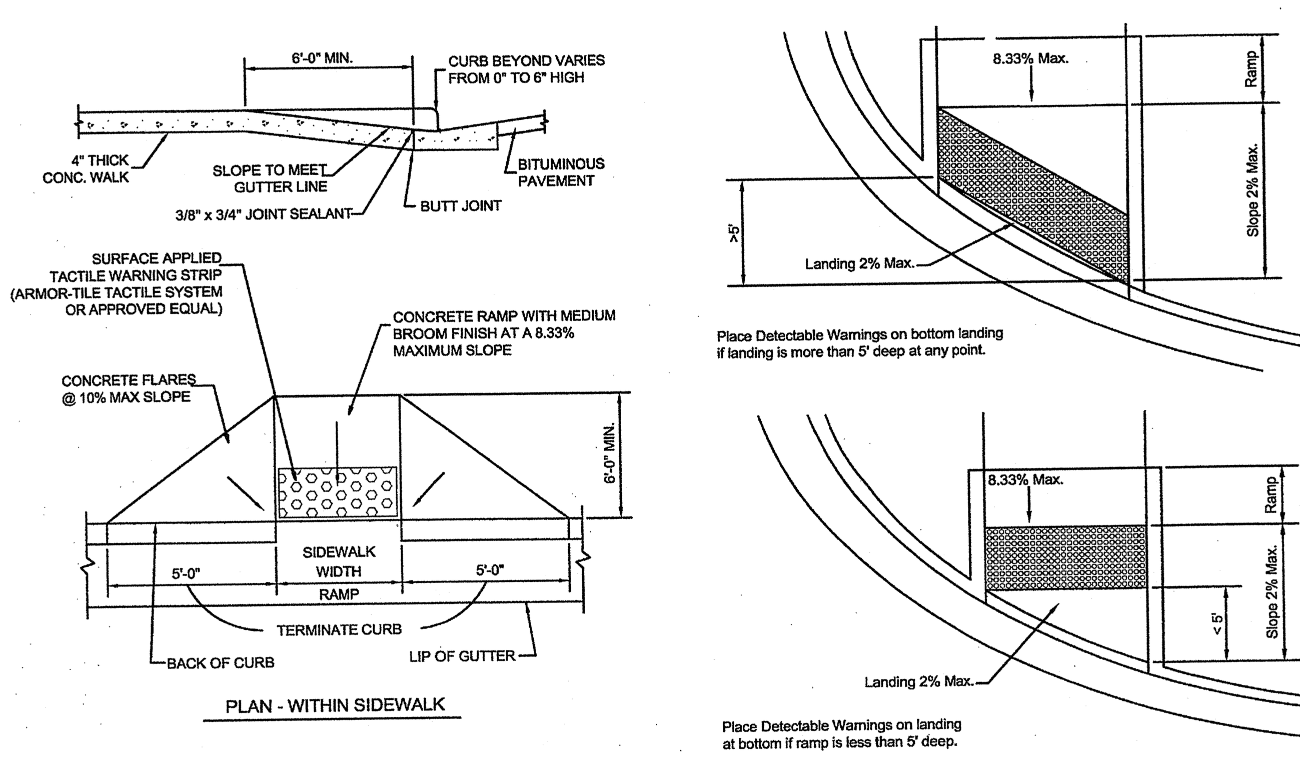
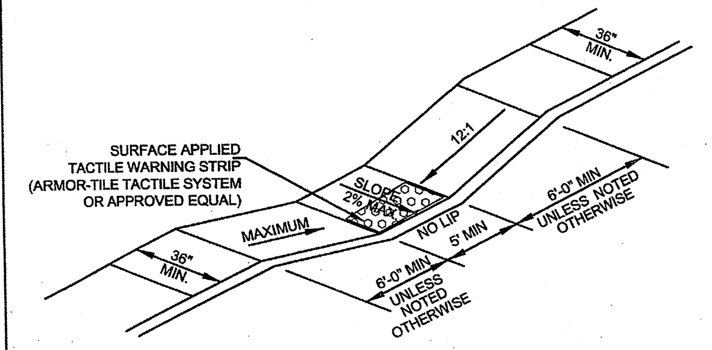


NOTE: REFER TO PLANS FOR ACTUAL DIMENSIONS.

ACCESSIBLE CURB-RAMP DETAIL

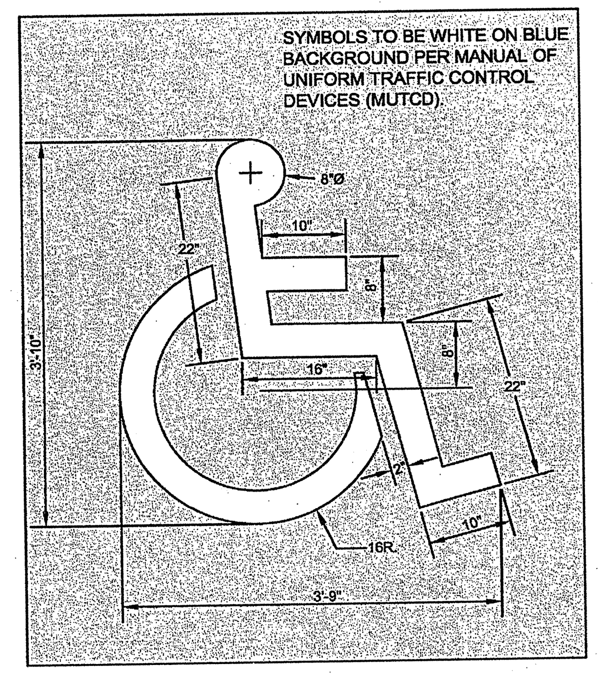
NO SCALE



NOTE:
- REFER TO PLANS FOR ACTUAL DIMENSIONS.
- MAXIMUM CROSS-SLOPE WITHIN SIDEWALK IS 2.0%.

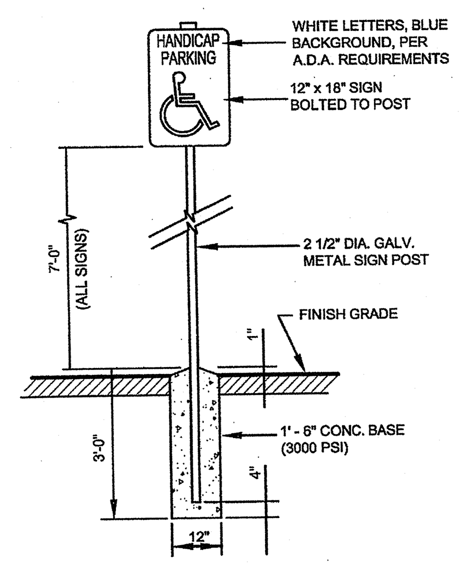
ACCESSIBLE RAMP DETAIL

NO SCALE



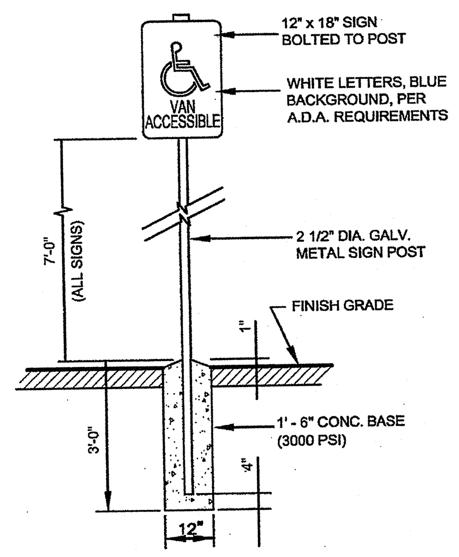
HANDICAP PAVEMENT MARKING DETAIL

NO SCALE



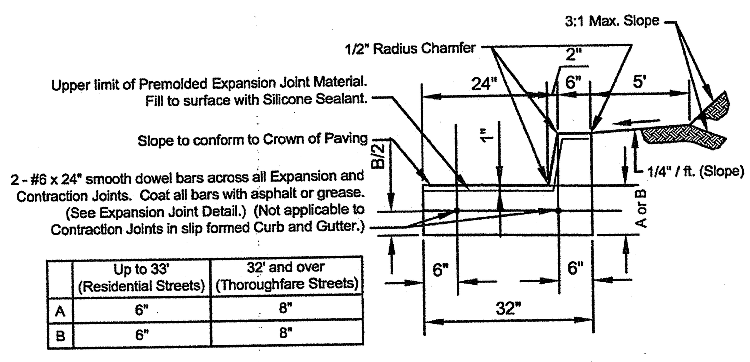
HANDICAP SIGN DETAIL

NO SCALE



HANDICAP SIGN DETAIL

NO SCALE

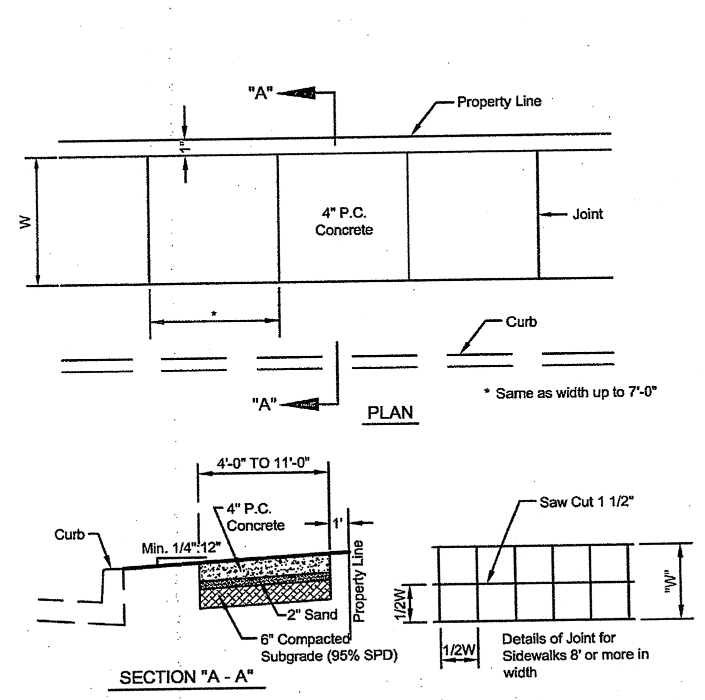


	Up to 33' (Residential Streets)	32' and over (Thoroughfare Streets)
A	6"	8"
B	6"	8"

NOTE: Maximum spacing of 1/2" Expansion Joints to be 100' c/c with Contraction Joints 15' - 20' apart to match Driveway Returns. (Expansion Joint spacing, not applicable to slip formed Curb and Gutter.)

CONCRETE CURB & GUTTER DETAIL

NO SCALE

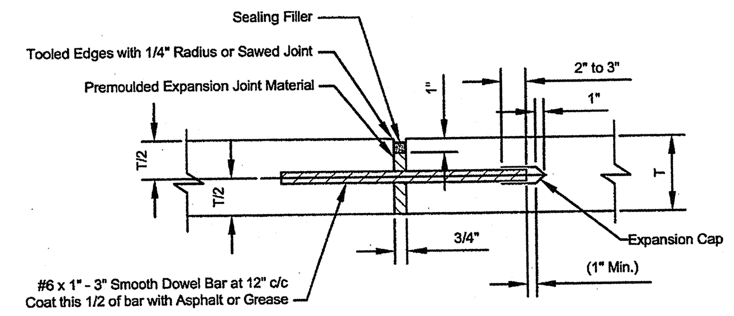


NOTES:

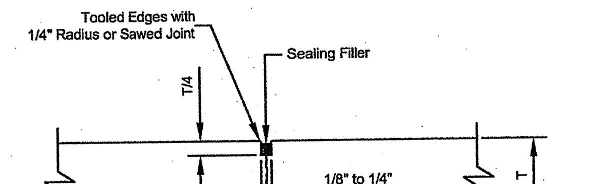
1. 3/4" X 4" PREMOLDED EXPANSION MATERIAL AROUND POWER POLES OR OTHER STRUCTURES IN WALK WITH AT LEAST 36" OF CLEAR TRAVEL SPACE.
2. EXPANSION JOINTS MAXIMUM DISTANCE = 100', USE 3/4" X 4" PREMOLDED EXPANSION MATERIAL.
3. CONTRACTION JOINTS MAXIMUM DISTANCE = 7', SAW CUT 1 1/2" DEEP AND FILL WITH HOT POURED SEALER.
4. SAW CUT JOINTS WITHIN 24 HOURS.
5. ALL JOINTS TO BE SEALED. PRE-MOLDED EXPANSION MATERIAL TO BE REMOVED TO A DEPTH OF 1/2" PRIOR TO APPLYING SEALANT.

TYPICAL SIDEWALK SECTION

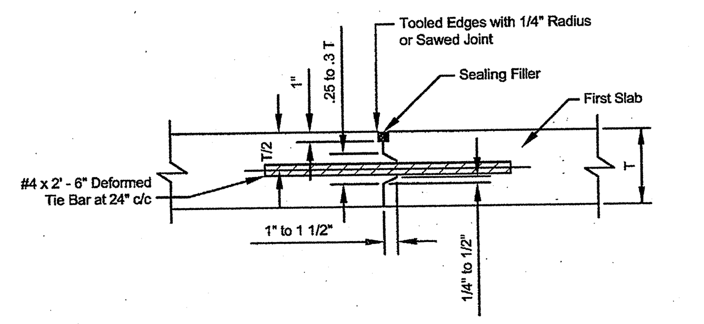
NO SCALE



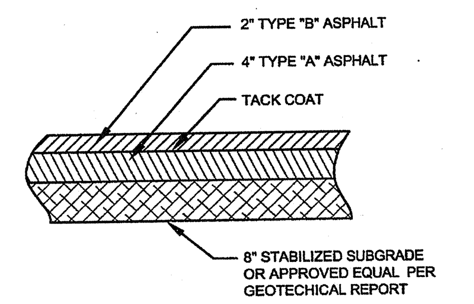
EXPANSION JOINT



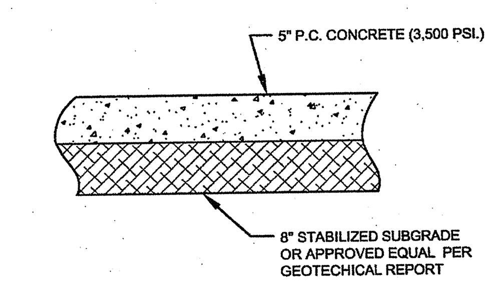
CONTRACTION JOINT DETAIL



CONSTRUCTION JOINT DETAIL

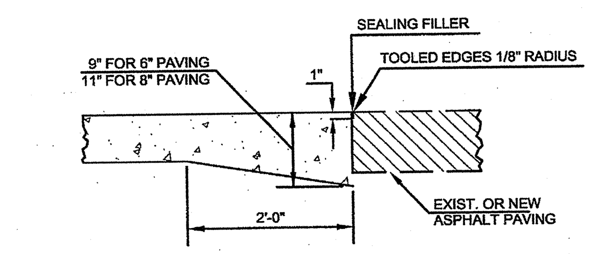


ASPHALT
PAVING SECTION



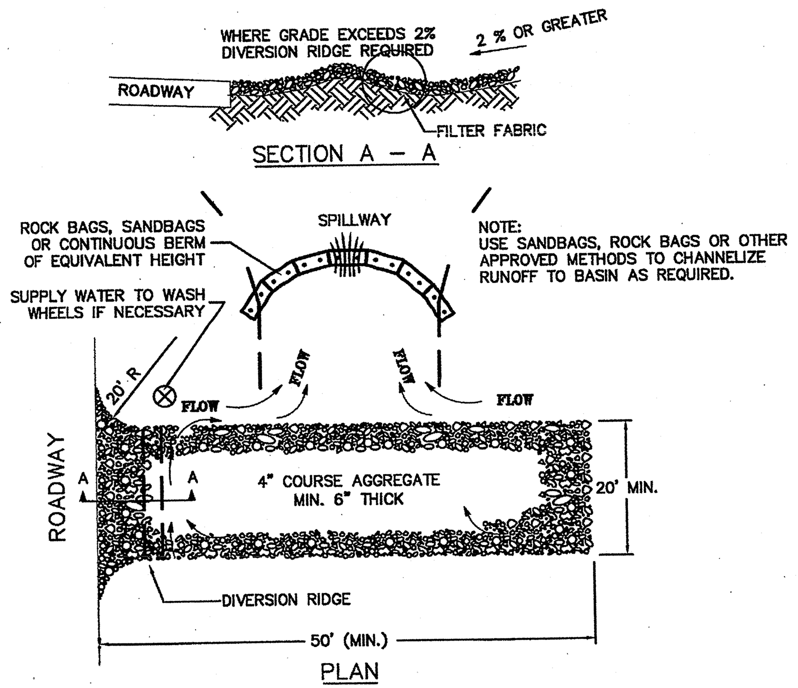
CONCRETE PAVING SECTION

NON-REINFORCED - DRIVEWAY ENTRANCES



THICKENED PAVEMENT EDGE

(TYPICAL AT CONCRETE & ASPHALT JOINT)

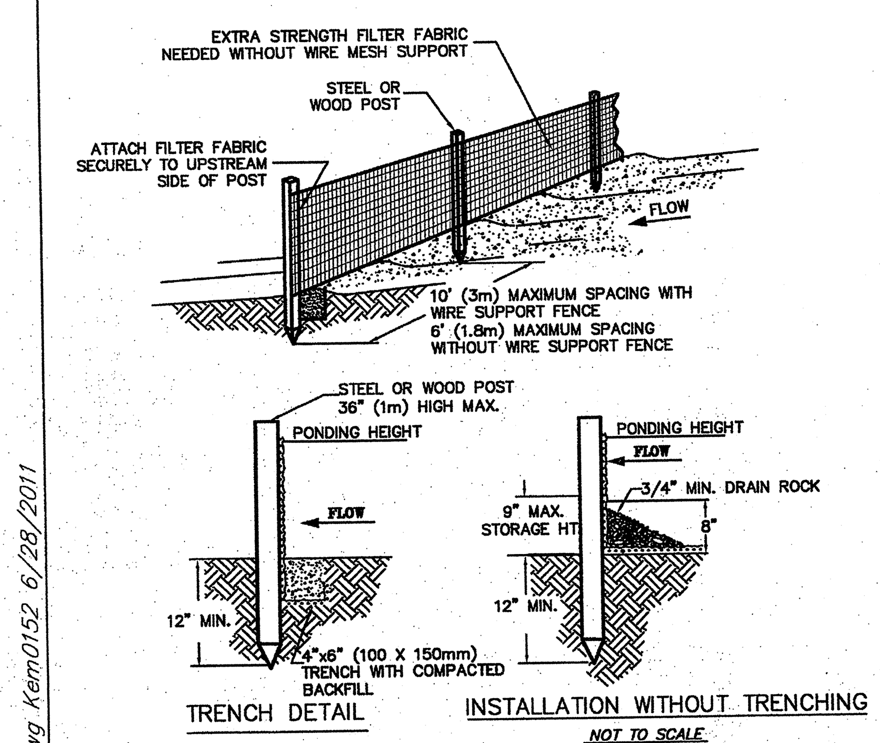


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY CONSTRUCTION ENTRANCE

NO SCALE



NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE DETAIL

NO SCALE

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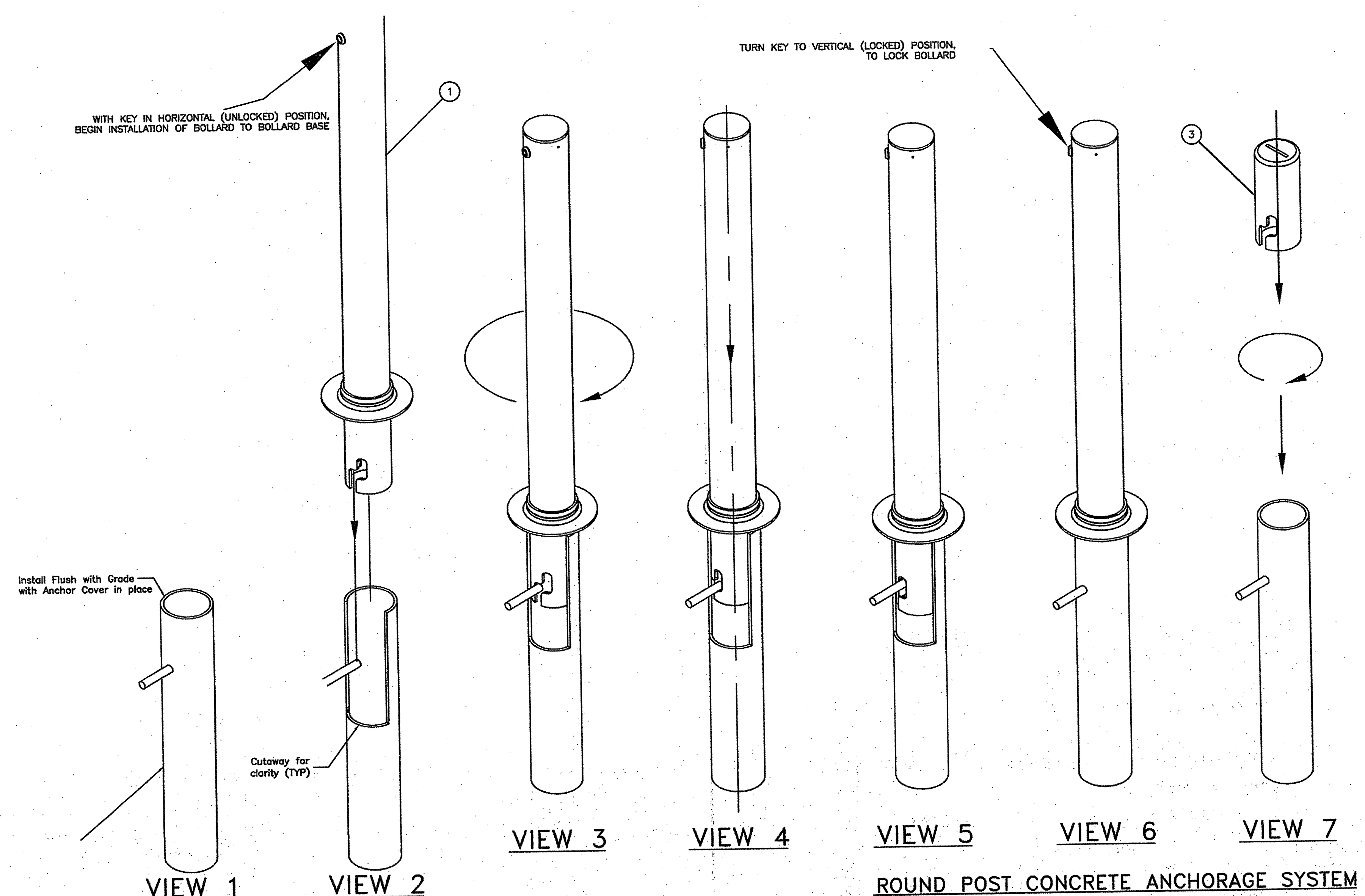


ROUND POST CONCRETE ANCHORAGE SYSTEM

DESIGN AND CONSTRUCTION DATA SCHEDULE.

1. THE DESIGN LOAD IS A STATIC LOAD LOCATED AT 27 INCHES ABOVE GRADE THAT SHOULD CAUSE FAILURE OF THE BOLLARD.
2. THE EARTH PRESSURE VALUE IS SHOWN AT DESIGN LOAD AND THE OWNER SHOULD VERIFY THAT THE EARTH IS ADEQUATE.
3. OTHER ANCHORAGE SYSTEMS MAY CAUSE PREMATURE FAILURE OF THE BOLLARD BY ROTATION OF ANCHORAGE.

EARTH PRESSURE MAXIMUM Q = 3888 P / DB(A+B)

BOLLARD MODEL	DESIGN LOAD P	BOLLARD Fb PSI	EARTH Q MAX	PIER HT. C	VERTICAL REBAR LENGTH	VERTICAL REBAR QTY	NO. HOOP REBAR	PVC DRN LENGTH	PIER CONCRETE	FRENCH DRAIN	PIER DIAMETER	DIMENSION A	DIMENSION B
RP3501	3000 #	47093 PSI	2204 PSF	42 INCH	40 INCH	4	6 EACH	18 INCH	6 Cu Ft	0.5 Cu Ft	18 INCH	7 INCH	14 INCH
RP3503	3000 #	47093 PSI	2204 PSF	42 INCH	40 INCH	4	6 EACH	18 INCH	6 Cu Ft	0.5 Cu Ft	18 INCH	7 INCH	14 INCH
RP3504	6000 #	50467 PSI	4408 PSI	42 INCH	40 INCH	4	6 EACH	18 INCH	6 Cu Ft	0.5 Cu Ft	18 INCH	7 INCH	14 INCH
RP3504	6000 #	50467 PSI	2667 PSI	54 INCH	52 INCH	4	7 EACH	30 INCH	8 Cu Ft	0.5 Cu Ft	18 INCH	9 INCH	18 INCH
RP3505	10000 #	49541 PSI	4444 PSI	54 INCH	52 INCH	4	7 EACH	30 INCH	8 Cu Ft	0.5 Cu Ft	18 INCH	9 INCH	18 INCH
RP3505	10000 #	49541 PSI	3600 PSI	60 INCH	58 INCH	4	8 EACH	36 INCH	9 Cu Ft	0.5 Cu Ft	18 INCH	10 INCH	20 INCH
RP3505	10000 #	49541 PSI	2975 PSI	66 INCH	64 INCH	4	8 EACH	42 INCH	10 Cu Ft	0.5 Cu Ft	18 INCH	11 INCH	22 INCH
RP3506	15000 #	47647 PSI	3750 PSI	72 INCH	70 INCH	4	9 EACH	48 INCH	11 Cu Ft	0.5 Cu Ft	18 INCH	12 INCH	24 INCH
RP3506	15000 #	47647 PSI	3195 PSI	78 INCH	76 INCH	4	10 EACH	54 INCH	12 Cu Ft	0.5 Cu Ft	18 INCH	13 INCH	26 INCH
RP3506	15000 #	47647 PSI	3240 PSI	60 INCH	58 INCH	8	8 EACH	36 INCH	25 Cu Ft	1.8 Cu Ft	30 INCH	10 INCH	20 INCH
RP3506	15000 #	47647 PSI	3333 PSI	54 INCH	52 INCH	8	7 EACH	30 INCH	32 Cu Ft	1.8 Cu Ft	36 INCH	9 INCH	18 INCH
–		–	–	–	–		–	–	–	–	–	–	–
–		–	–	–	–		–	–	–	–	–	–	–

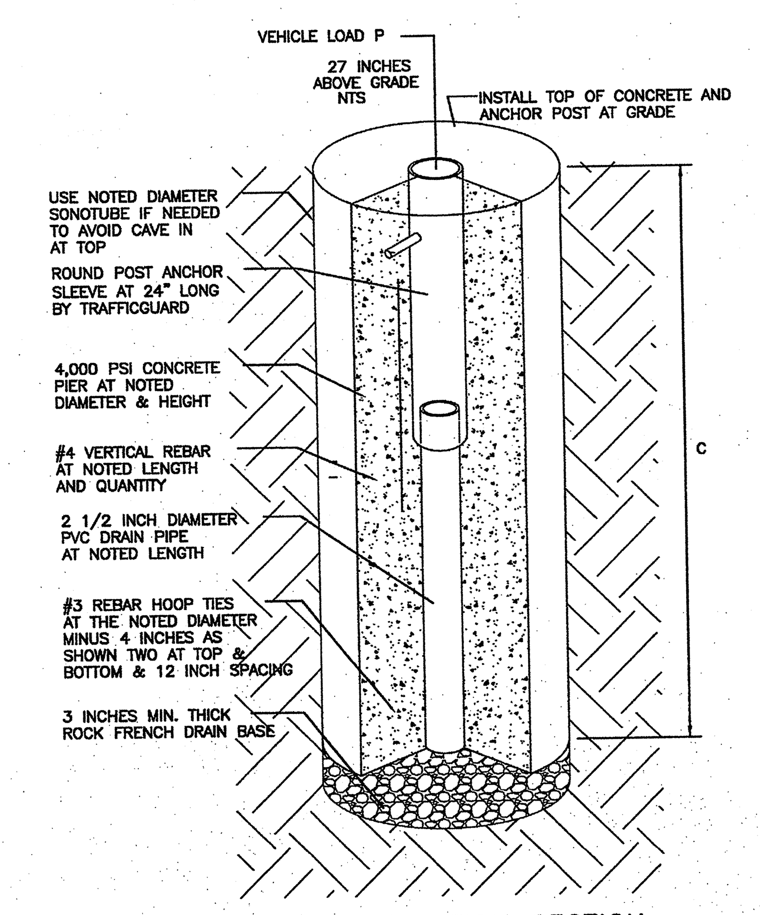
GENERAL SPECIFICATIONS AND NOTES FOR ALL PARTS AND WELDMENTS

1. REMOVE ALL BURRS AND SMOOTH SHARP EDGES.
2. REMOVE ALL WELD SLAG, RUST, AND MILL SCALE BY CHIPPING, WIRE BRUSHING AND THEN SANDBLAST TO SSPC6 PRIOR TO PAINTING.
3. REMOVE ALL OIL AND CLEAN WITH PAINT THINNER PRIOR TO PAINTING. ALL PAINTING SHALL CONFORM TO THE SPECIFICATION ON DRAWING "SPD1".
4. PRIME ALL SURFACES WITH ONE COAT OF GRAY CORLAR EPOXY PRIMER 934S WITH A DRY FILM THICKNESS OF 1.0 MILS.
5. PAINT ONE FINISH COAT OF DUPONT YELLOW IMRON 5000 3.5 VOC COLOR #N0882HNW IN A CROSS-COAT FASHION.
6. LABELS (IF REQUIRED) WILL BE INSTALLED BY THE CUSTOMER AND PROVIDED BY TRAFFICGUARD DIRECT, UNLESS OTHERWISE DIRECTED.
7. ALL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.
8. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 LATEST EDITION.
9. ALL MATERIAL SHALL BE NEW AND SHALL BE AS NOTED ON THE DRAWINGS AND/OR IN THE "BILL OF MATERIAL".
10. "SS" INDICATES STAINLESS STEEL AND "HDG" INDICATED HOT DIP GALVANIZED.
11. ALL WORK SHALL BE PROPERLY PACKAGED TO AVOID DAMAGE AND SHIPPED PER SPECIFIC INSTRUCTIONS BY TRAFFICGUARD DIRECT.

ROUND POST CONCRETE ANCHORAGE SYSTEM

REMOVABLE BOLLARD

NO SCALE



PIER ELEVATION SECTION

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.

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ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2011

LWPB
5909 NW Expressway, Ste. 600
Oklahoma City, Oklahoma 73132
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www.lwpb.com

REGISTERED PROFESSIONAL ENGINEER JASON MOORMAN 23010 OKLAHOMA 6/28/11

Perkins-Tryon Public Schools
ELEMENTARY SCHOOL ADDITION
Perkins, Oklahoma

JOB NO: 112819
DATE: 6/28/2011

Revisions

DRAWING TITLE
SITE CONSTRUCTION DETAILS

C-3.1