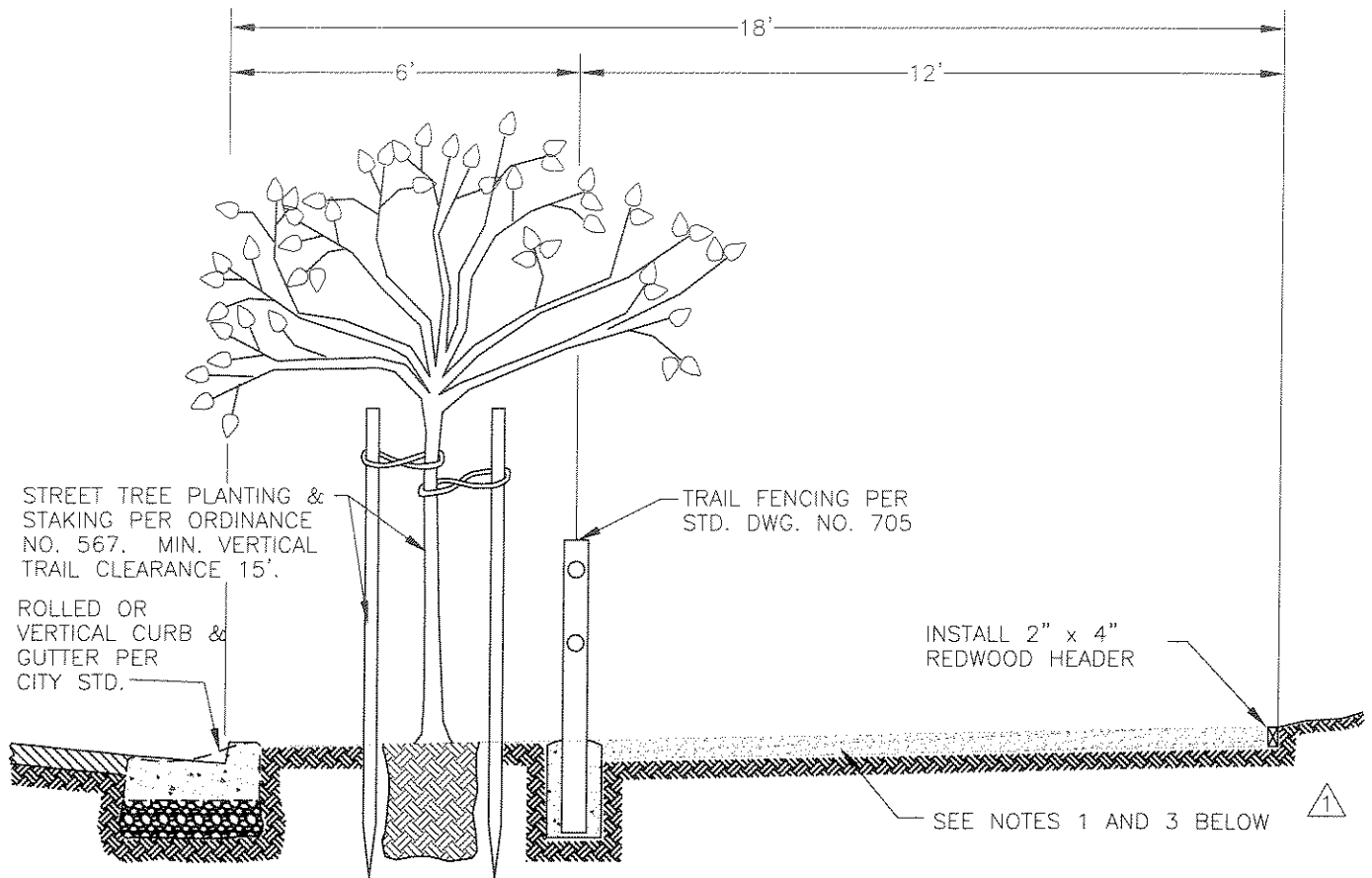


# TRAIL STANDARDS



# CITY of NORCO STANDARD DRAWING



STREET TREE PLANTING & STAKING PER ORDINANCE NO. 567. MIN. VERTICAL TRAIL CLEARANCE 15'.  
 ROLLED OR VERTICAL CURB & GUTTER PER CITY STD.

TRAIL FENCING PER STD. DWG. NO. 705

INSTALL 2" x 4" REDWOOD HEADER

SEE NOTES 1 AND 3 BELOW



**NOTES:**

1. TRAIL MATERIAL (4" THICK) SHALL BE COMPACTED IN PLACE TO 95% WITH THE UPPER ONE FOOT OF SUBGRADE COMPACTED TO 95%, AND SHALL CONSIST OF DECOMPOSED GRANITE, SLAG OR STEEL SLAG WITH A MORE OR LESS EQUAL GRADATION MIXTURE BETWEEN 1/2" SIZE MAXIMUM AND NO. 200 SIEVE SIZE MINIMUM.
2. REDWOOD HEADER STAKES SHALL BE 1" x 2" x 18" AT 4'-0" O.C. FLUSH WITH TOP OF HEADER.
3. THE ONLY APPROVED ALTERNATIVE TRAIL MATERIALS ARE THE FOLLOWING:
  - A. 2% SOIL CEMENT/DG. SEE SHEET 2 FOR SPECIFICAITONS.
  - B. POLYMER COATED CRUSHED STONE PATHWAY MIX. SEE SHEET 3 FOR SPECIFICATIONS.
  - C. INTERLOCKING BRICK PAVERS IN DRIVEWAY AREAS ONLY AND CANNOT BE USED IN OTHER PARTS OF THE TRAIL. SEE SHEETS 4 & 5 FOR SPECIFICATION.



REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:
	1	LJA	09/01/05	3	JCW	10/23/07
	2	SLR	03/28/07	4	SRL	02/22/08

Drawn By: LJA

Date: 01/03/05

APPROVED: *Dominic Peters* 027172  
 CITY ENGINEER RCE

## EQUESTRIAN TRAIL STANDARD 700

Std. Dwg. No.  
 Sheet 1 of 6

# CITY of NORCO STANDARD DRAWING



## A. SOIL CEMENT

1. GRADE TRAIL, FILLING ALL RUTS AND ADJUSTING GRADE FOR PROPER WATER FLOW WITH A MINIMUM CROSS SLOPE OF 1% AND A MAXIMUM CROSS SLOPE OF 4%.
2. SPREAD 270 LBS. OF PORTLAND PLASTIC CEMENT OVER 240 SQ. FT. OF TRAIL.
3. ROTO-TIL IN THE CEMENT AND EXISTING DG TRAIL MATERIAL TO A DEPTH OF 4 INCHES OVER THE ENTIRE 240 SQ. FT.
4. RE-GRADE THE AREA ROTO-TILLED AND MIXED. ADD WATER LIGHTLY DURING THIS PROCESS.
5. WHEN THE ENTIRE AREA IS LEVELED, ROLL THE AREA WITH A 3,500 LB. ROLLER ADDING WATER LIGHTLY. THE AREA WILL NEED TO BE ROLLED SEVERAL TIMES FOR PROPER COMPACTION.
6. THE AREA IS TO BE LIGHTLY WATERED SEVERAL TIMES BY HAND OVER THE NEXT SEVERAL HOURS. AVOID OVER-WATERING THAT WOULD CAUSE THE TRAIL TO RUT OR WASH OUT. WATER MUST PENETRATE FOR THE FULL 4 INCHES OF SOIL CEMENT DURING THIS PROCES.
7. THE ENTIRE TRAIL MUST BE SECURED WITH SIGNS AND BARRICADES DURING THE INSTALLATION OF THE SOIL CEMENT AND FOR THE NEXT 24-HOURS AFTER COMPLETION TO ALLOW FOR THE CEMENT TO HARDEN.
8. ALL VEHICLES SHALL BE KEPT OFF THE SOIL CEMENT INCLUDING DRIVEWAYS FOR A FULL 24-HOURS AFTER THE INSTALLATION IS COMPLETE.

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	1	LJA	09/01/05	3	JCW	10/23/07		
	2	SLR	03/28/07	4	SRL	02/22/08		
Drawn By: LJA			Date: 01/03/05			C27172 APPROVED: CITY ENGINEER <span style="float: right;">RCE</span>		
EQUESTRIAN TRAIL STANDARD							700	Std. Dwg. No. Sheet 2 of 6

# CITY of NORCO STANDARD DRAWING



## B. POLYMER COATED CRUSHED STONE PATHWAY MIX

1. SUB-GRADE PREPARATION
  - A. ALL AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% RELETIVE COMPACTION AND SHALL BE GRADED WITH A MINIMUM CROSS SLOPE OF 1%. ALL AREAS MUST BE GRADED IN A MANNER SO THAT NO STANDING WATER IS PRESENT AFTER FLOODING. ALL DELETERIOUS MATERIAL SUCH AS SOD, TOPSOIL, STICKS, ETS., SHALL BE REMOVED PRIOR TO PAVING. STATE APPROVED PREEMERGENCE HERBICIDE SHALL BE APPLIED OVER THE ENTIRE SUB-GRADE.
  - B. PRIOR TO PAVING SUB-GRADE SHALL BE APPROVED BY AN ARCHITECT OR OTHER QUALIFIED INDIVIDUAL.
2. DECOMPOSED GRANITE OR CRUSHED AGGREGATE WITH STALOK BINDER
  - A. AGGREGATE MIX SHALL BE DECOMPOSED GRANITE OR CRUSHED AGGREGATE. ALL AVAILABLE MATERIALS HAVE BEEN TESTED AND APPROVED BY PRODUCT MANUFACTURE.
  - B. THE AGGREGATE MIXTURE IS TO BE BLENDED AS PER MANUFACTURER'S SPECIFICATIONS BY APPROVED MANUFACTURE'S BLENDING METHODS.
  - C. CONTRACTOR SHALL GUARANTEE THAT MATERIALS USED AND INSTALLATION OF AGGREGATE MATERIALS ARE IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
3. AGGREGATE PAVING
  - A. THE MIXTURE SHALL BE PLACED BY A SPREADER OR OTHER APPROVED MEANS AT A 2-INCH COMPACTED DEPTH OVER A COMPACTED SUB-GRADE.
  - B. SPREAD BY GRADING ONTO THE PREPARED BASE UNTIL THE ENTIRE AREA IS COVERED.
  - C. THE SURFACE COVER SHALL BE COMPACTED USING A 5-TON DOUBLE-DRUM ROLLER OR SIMILAR TO GIVE A FINAL DEPTH OF 2-INCHES.
4. "STALOK" IS AN APPROVED BRAND OF POLYMER COATED CRUSHED STONE PATHWAY MIX. OTHER MANUFACTURES OF POLYMER COATED CRUSH STONE WHICH MEET THE MINIMUM SPECIFICATION OF THE "STALOK" PRODUCT WILL BE CONSIDERED AN APPROVED EQUAL.

STALOK IS A PRODUCT TRADE MARK BY STABILIZER SOLUTIONS, INC., ARIZONA  
 STABILIZER SOLUTIONS: (602) 255-5900  
 LOCAL SUPPLIER: GAIL MATERIAL: (951) 279-1095

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	2	SLR	03/28/07	4	SRL	02/22/08	

Drawn By: LJA

Date: 01/03/05

# EQUESTRIAN TRAIL STANDARD

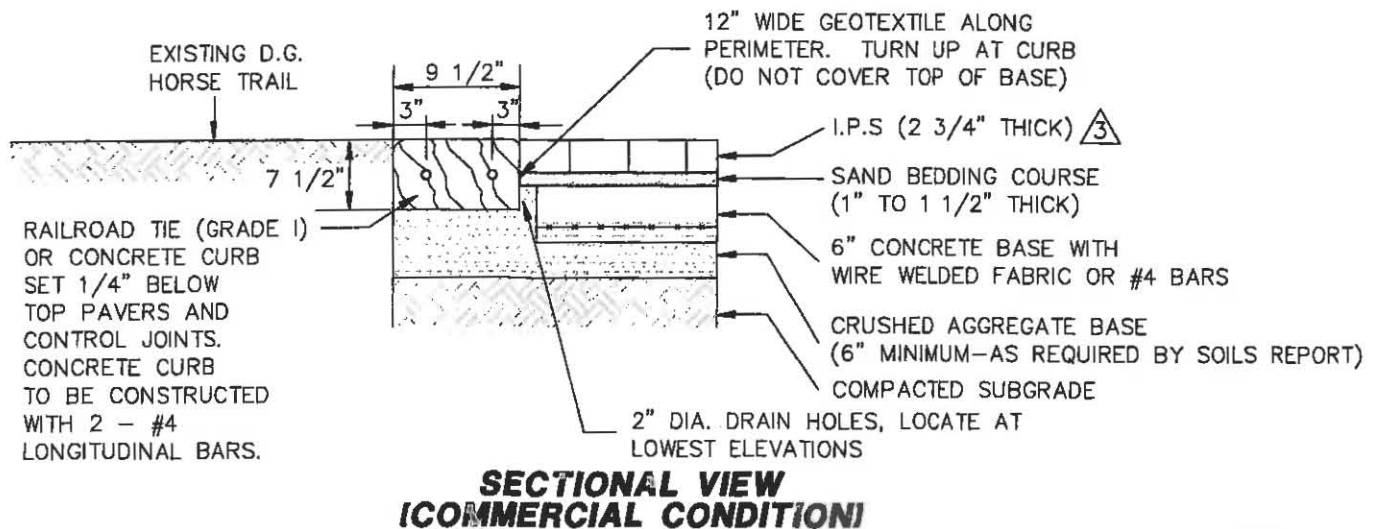
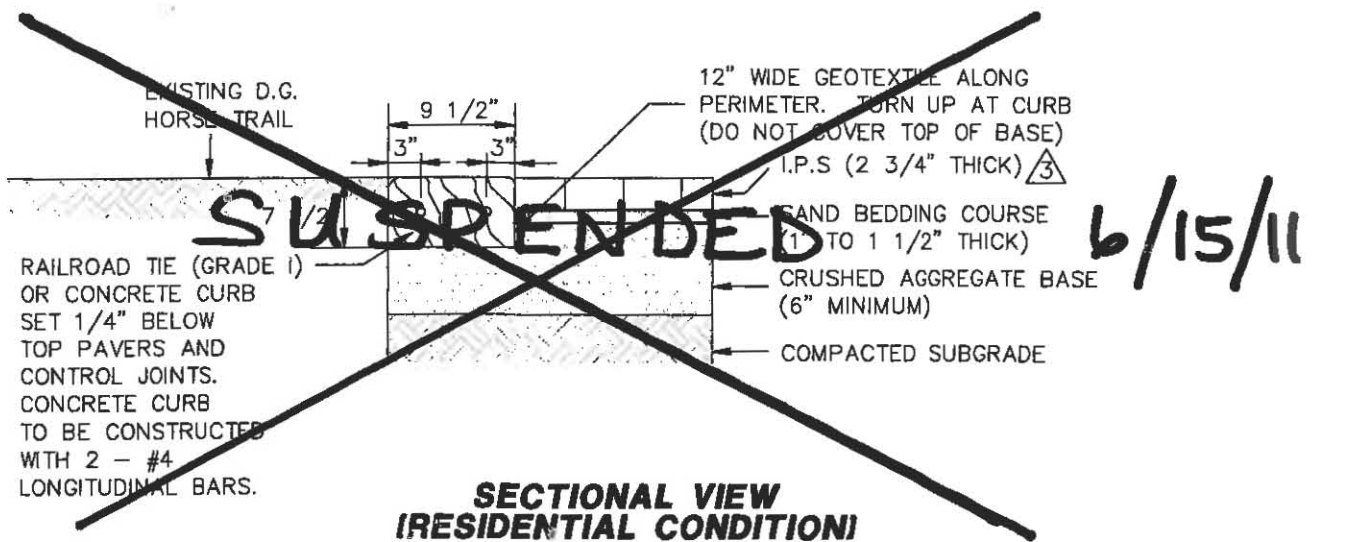
Std. Dwg. No. **700**  
Sheet 3 of 6

# CITY of NORCO STANDARD DRAWING

## ① ② **C. INTERLOCKING BRICK PAVERS**

NOTES:

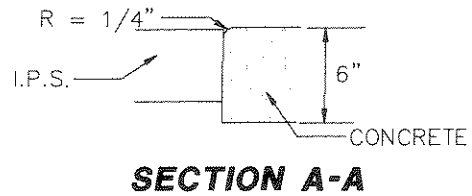
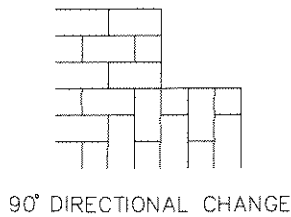
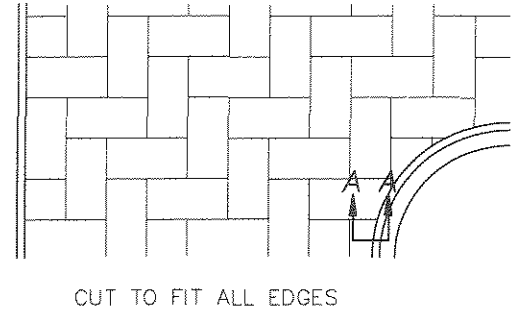
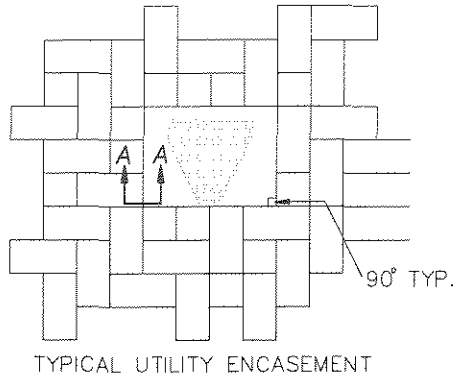
1. EDGE TREATMENT SHALL BE AS STRAIGHT AS POSSIBLE TO COMPLIMENT THE ALIGNMENT OF PAVING STONES.
2. INTERLOCKING PAVING STONES (I.P.S.) SHALL CONFORM TO ASTM C936 AND BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.  
BLOCK STYLE = CAPRI  
PATTERN = RUNNER  
COLOR = SANTA BARBARA SANDSTONE  
(OR APPROVED EQUAL BY THE CITY ENGINEER.)
3. ALL SURFACING UTILITIES SHALL BE ENCASED IN CONCRETE, CREATING STRAIGHT LINES TO CUT AGAINST.
4. PCC CLASS  
DRIVEWAY - 520-A-2500



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2	SRL	03/28/07	4	SRL	02/22/08		

Drawn By: LJA Date: 01/03/05

# CITY of NORCO STANDARD DRAWING



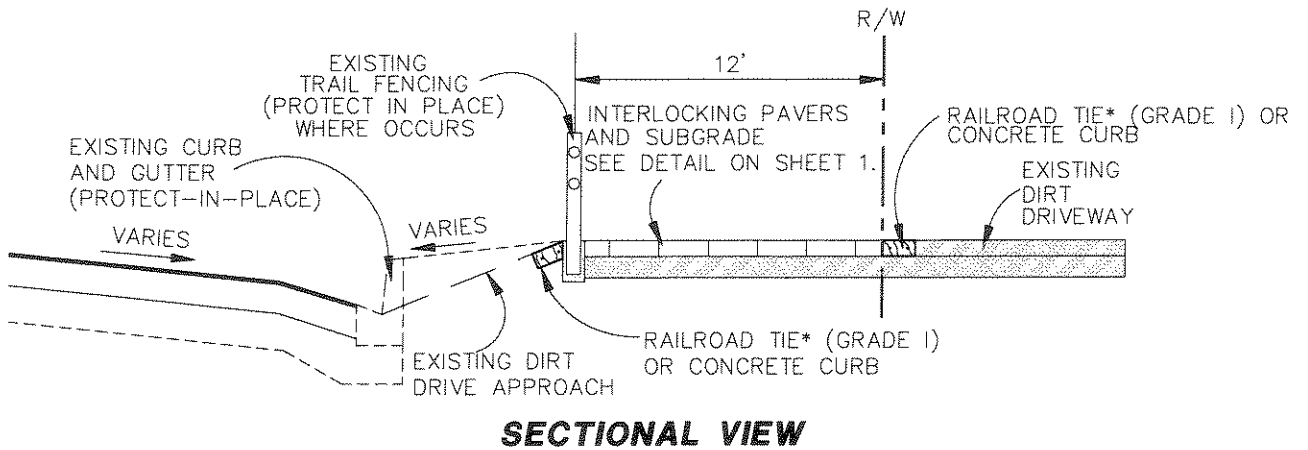
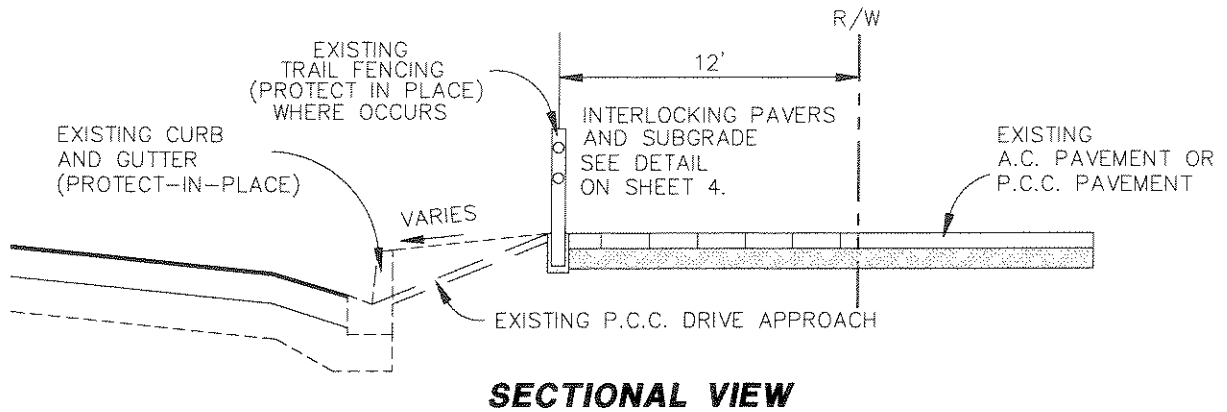
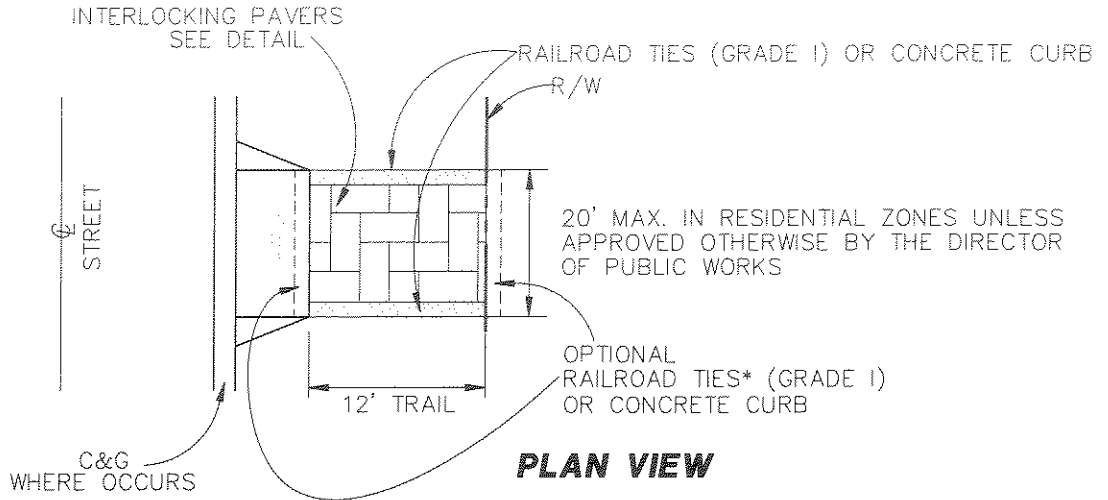
REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:	APPROVED: CITY ENGINEER <span style="float: right;">RCE</span>
	1	LJA	09/01/05	3	JCW	10/23/07	
	2	SRL	03/28/07	4	SRL	02/22/08	

Drawn By: LJA

Date: 01/03/05

C27172

# CITY of NORCO STANDARD DRAWING



\*NOTE:  
TO BE USED ONLY IF DWY OR DWY  
APPROACH IS OTHER THAN A.C OR P.C.C.

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	1	LJA	09/01/05	3	JCW	10/23/07
	2	SRL	03/28/07	4	SRL	02/22/08

Drawn By: LJA

Date: 01/03/05

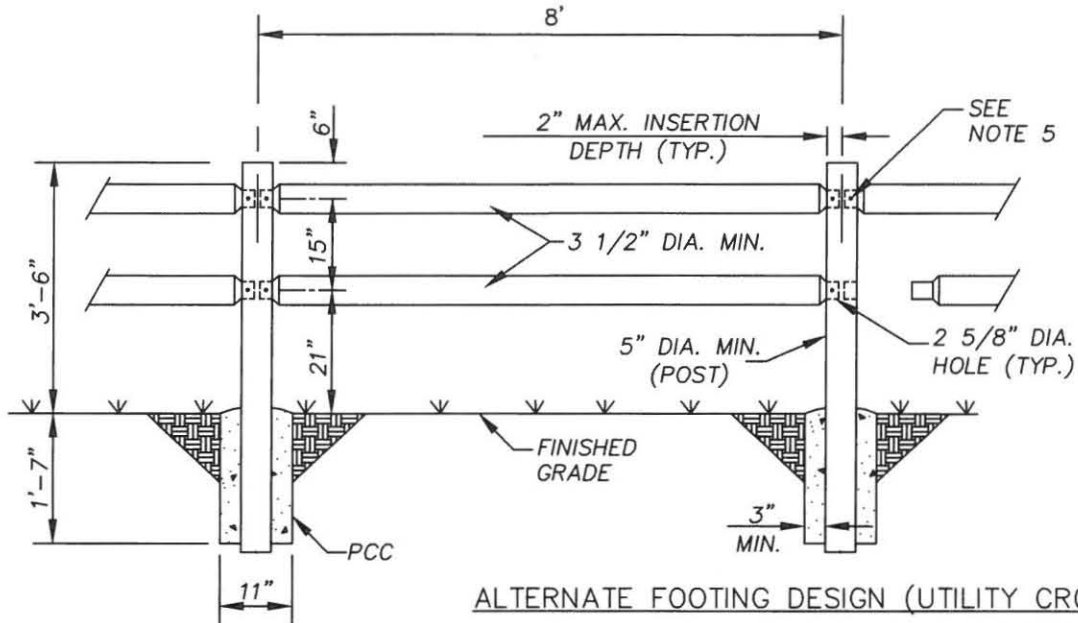
C27172  
APPROVED: *[Signature]*  
CITY ENGINEER RCE

## EQUESTRIAN TRAIL STANDARD 700

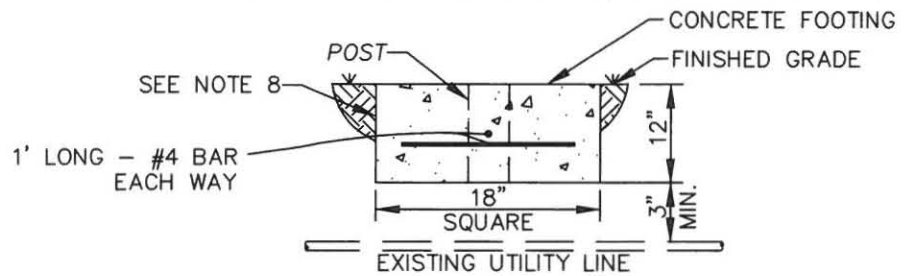
Std. Dwg. No.  
700  
Sheet 6 of 6

# CITY of NORCO STANDARD DRAWING

(REPLACEMENT OF EXISTING ONLY)



ALTERNATE FOOTING DESIGN (UTILITY CROSSING)



**NOTES:**

1. THE TOP OF THE POST SHALL NOT EXCEED 6" ABOVE THE TOP RAIL
2. THE HEIGHT ABOVE THE GROUND OF THE CENTERLINE OF THE TOP RAIL SHALL BE 36".
3. THE CENTER-TO-CENTER DISTANCE BETWEEN THE TOP AND BOTTOM RAILS SHALL BE 15".
4. ALL POSTS AND RAILS SHALL BE FULLY PRESSURE TREATED WITH EITHER COPPER AZOLE OR ALKALINE COPPER QUATERNARY. POSTS AND RAILS SHALL EXHIBIT A MINIMUM PRENENTRATION OF 1/8" ON ALL TREATED SURFACES.
5. INSERTION DEPTH OF THE RAIL INTO THE POST SHALL BE 2". NAILS SHALL BE 16d COMMON, GALVANIZED-RING OR 3" STEEL DRYWALL SCREWS. ONE NAIL OR SCREW PER EACH RAIL ON ONE SIDE OF POST.
6. CONCRETE SHALL BE 500-C-2500.
7. POLE FENCING MATERIAL SHALL BE EITHER CEDAR OR LODGE POLE PINE.
8. WOOD POSTS SHALL BE LOCATED BETWEEN 4' (MINIMUM) AND 8' (MAXIMUM) AWAY FROM DRIVEWAYS.
9. WOOD POSTS SHALL BE LOCATED 3' AWAY FROM FIRE HYDRANTS AND TREES.
10. IN CASE OF CONFLICT BETWEEN POST FOUNDATION AND UNDERGROUND UTILITIES, CONTRACTOR SHALL CONSTRUCT POST FOUNDATION PER ALTERNATE FOUNDATION DETAIL SHOWN ABOVE. CONTRACTOR SHALL PROTECT UNDERGROUND UTILITY IN PLACE DURING CONSTRUCTION.

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN

Date: 03/31/16

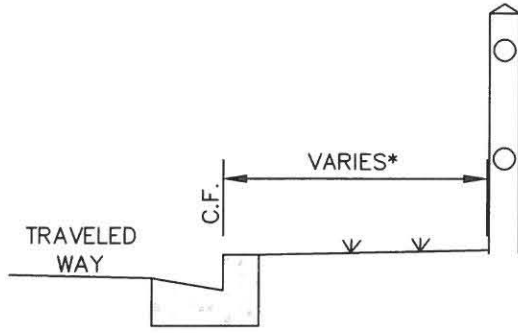
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## WOOD EQUESTRIAN TRAIL FENCING DETAIL

Std. Dwg. No.  
**705**  
Sheet 1 of 2

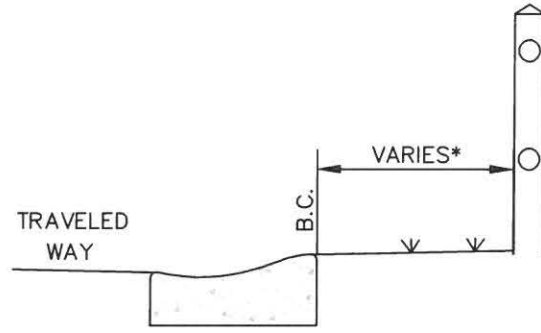


# CITY of NORCO STANDARD DRAWING



BARRIER CURB ADJACENT

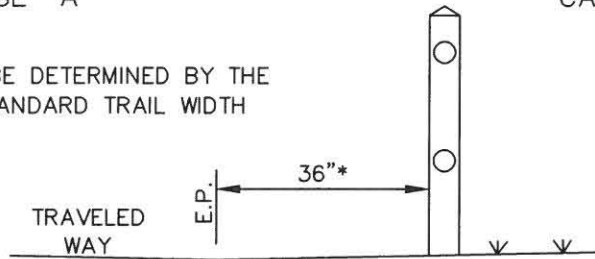
CASE "A"



ROLLED CURB ADJACENT

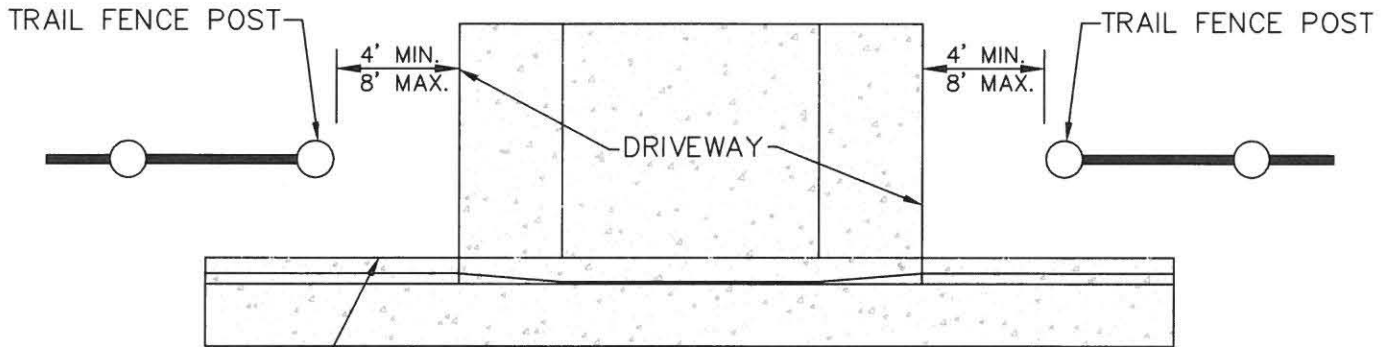
CASE "B"

\* THIS DIMENSION IS TO BE DETERMINED BY THE CITY TO MAINTAIN A STANDARD TRAIL WIDTH IN THE AREA.



EDGE OF PAVEMENT ADJACENT

CASE "C"



FENCE PLACEMENT AT DRIVEWAYS



FENCE PLACEMENT AT TREES & FIRE HYDRANTS

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN

Date: 03/31/16

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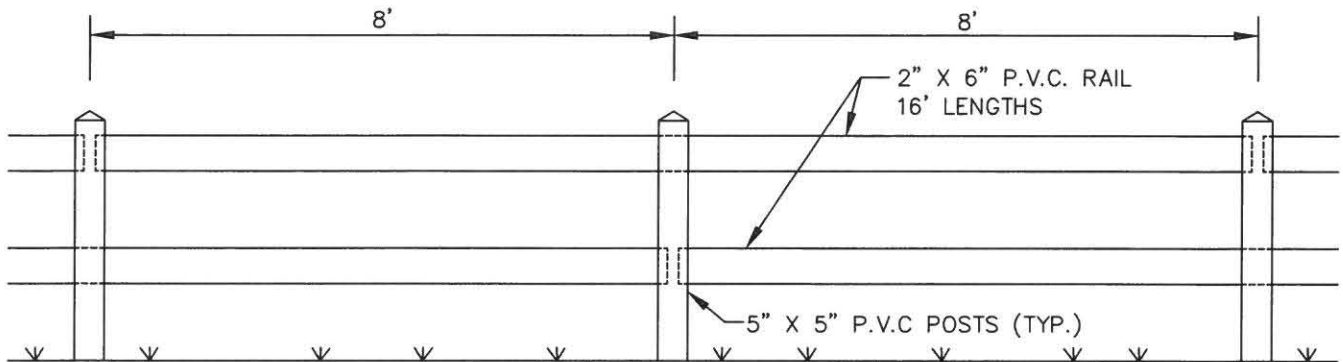
## WOOD EQUESTRIAN TRAIL FENCING DETAIL

Std. Dwg. No.  
**705**  
Sheet 2 of 2

# CITY of NORCO STANDARD DRAWING

(NEW CONSTRUCTION ONLY)

\*REPLACEMENT OF EXISTING WOOD FENCE WITH PVC FENCE MUST BE APPROVED BY THE PUBLIC WORKS DEPT.

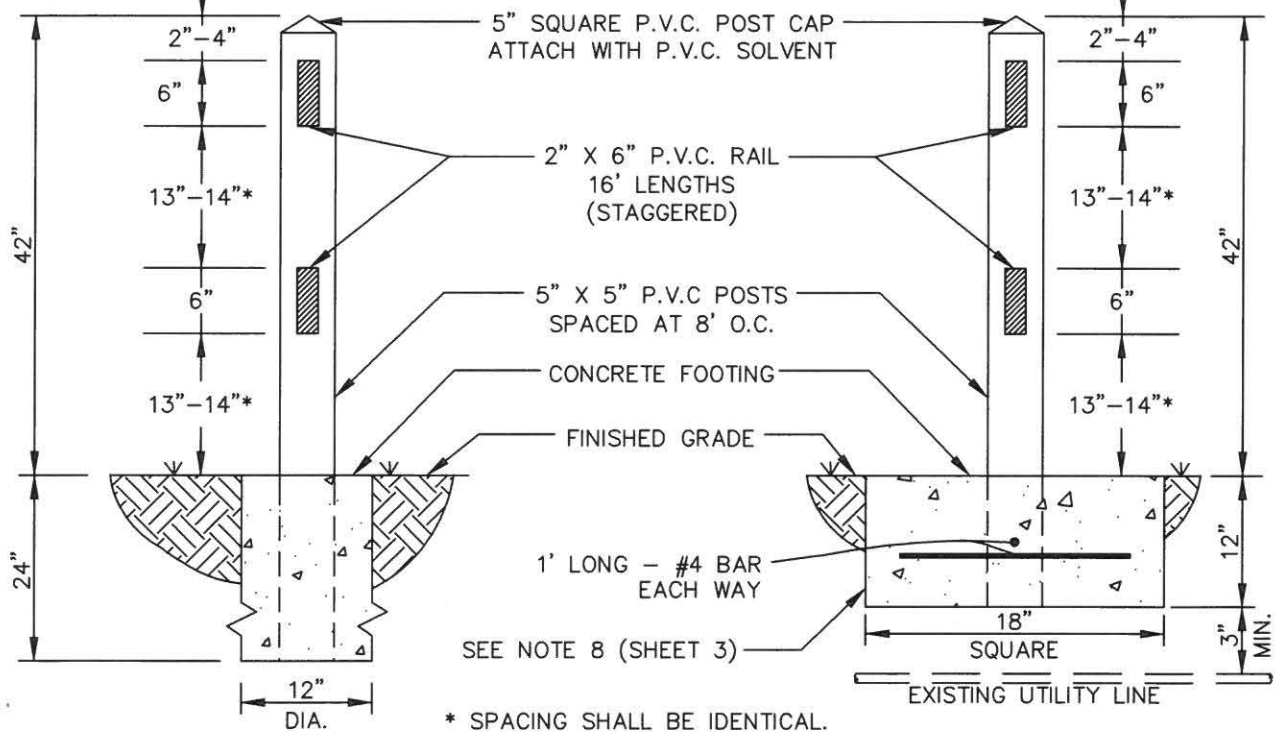


RAILING PLACEMENT

STANDARD FOOTING DETAIL

P.V.C. FENCE

ALTERNATE FOOTING DETAIL



\* SPACING SHALL BE IDENTICAL.

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN

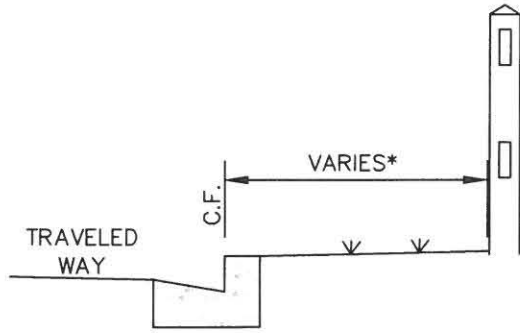
Date: 03/31/16

APPROVED: *[Signature]*  
CITY ENGINEER 27172 RCE

## PVC EQUESTRIAN TRAIL FENCING DETAIL

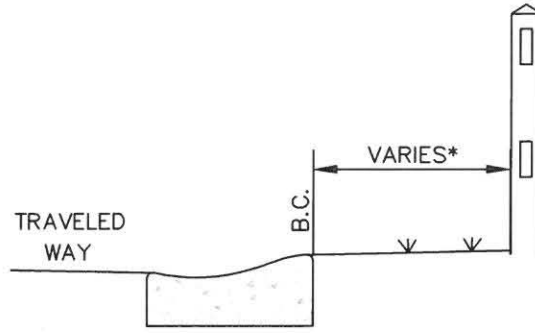
Std. Dwg. No.  
**706**  
Sheet 1 of 3

# CITY of NORCO STANDARD DRAWING



BARRIER CURB ADJACENT

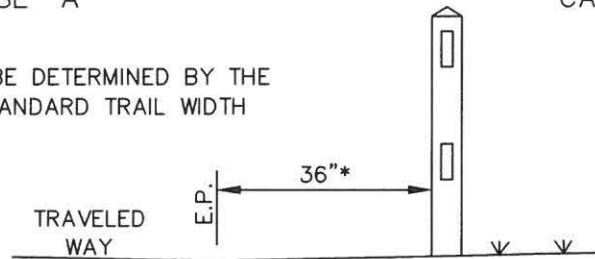
CASE "A"



ROLLED CURB ADJACENT

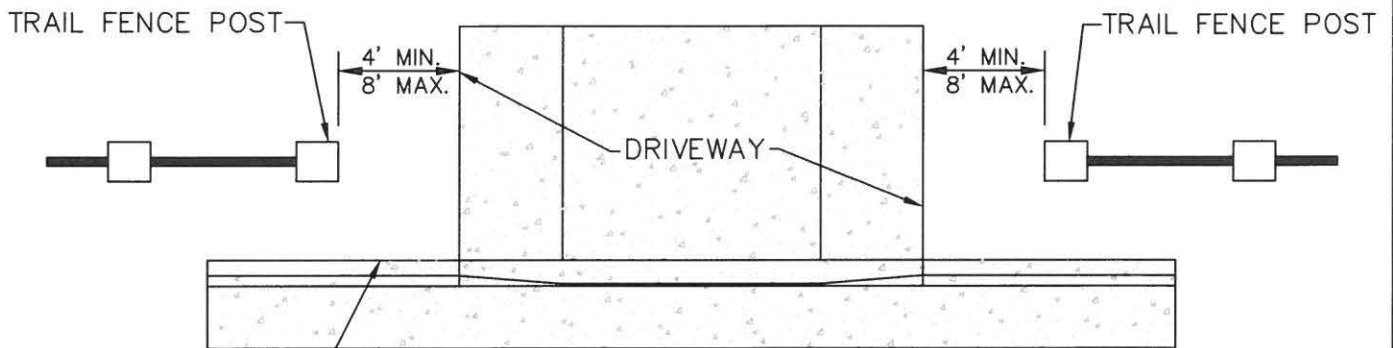
CASE "B"

\* THIS DIMENSION IS TO BE DETERMINED BY THE CITY TO MAINTAIN A STANDARD TRAIL WIDTH IN THE AREA.



EDGE OF PAVEMENT ADJACENT

CASE "C"



CURB & GUTTER

FENCE PLACEMENT AT DRIVEWAYS



FENCE PLACEMENT AT TREES & FIRE HYDRANTS

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN

Date: 03/31/16

APPROVED: CITY ENGINEER 27172 RCE


## PVC EQUESTRIAN TRAIL FENCING DETAIL

Std. Dwg. No.  
**706**  
Sheet 2 of 3

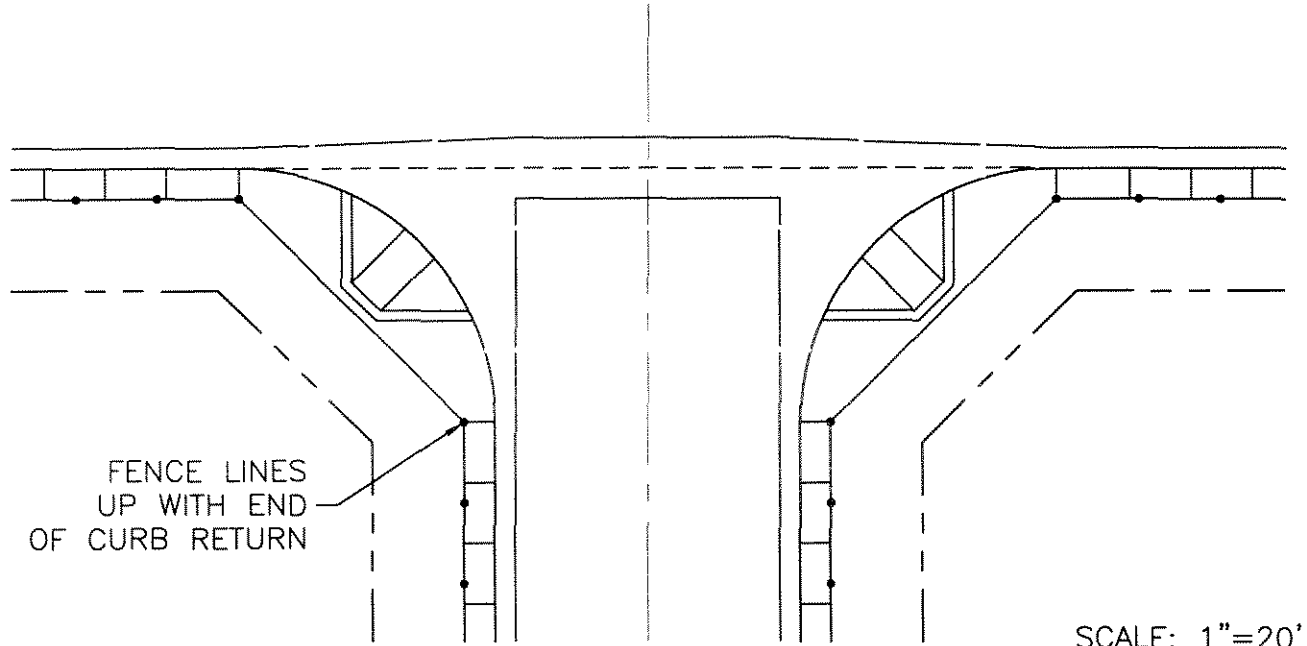
# CITY of NORCO STANDARD DRAWING

**NOTES:**

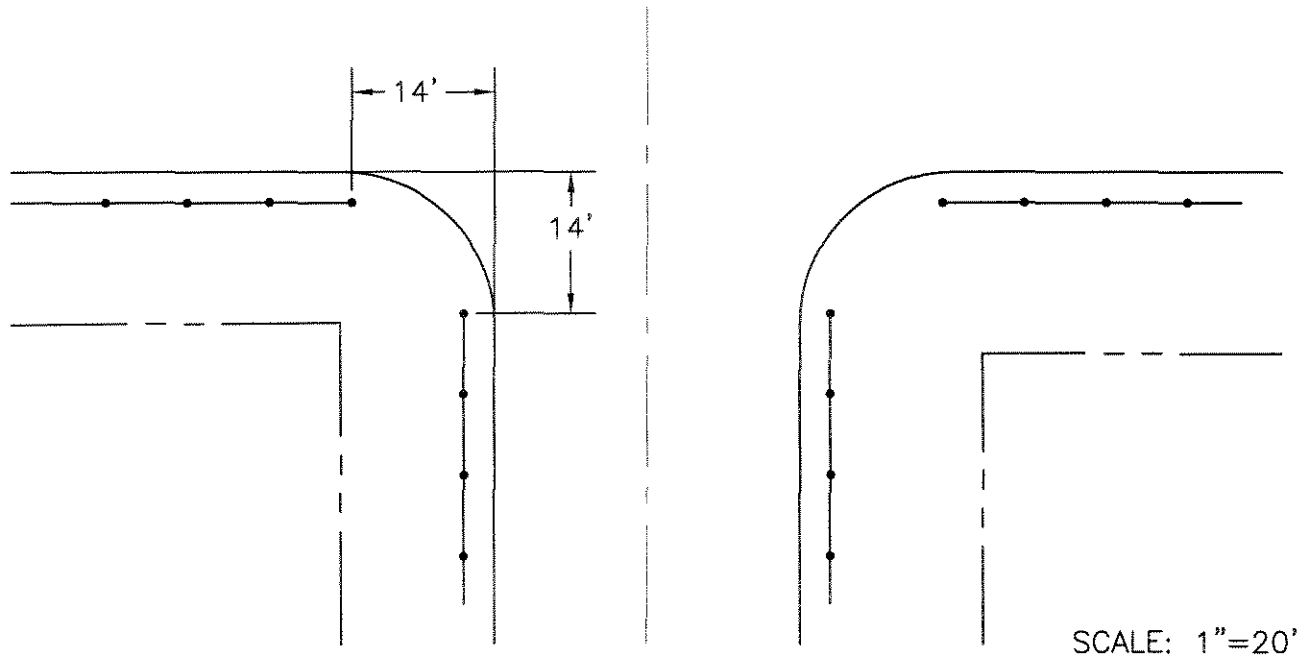
1. CONCRETE FOOTING SHALL BE CONSTRUCTED OF CLASS 500-C-2500 CONCRETE PER THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
2. P.V.C. EQUESTRIAN TRAIL FENCING COMPONENTS SHALL BE MANUFACTURED TO THE FOLLOWING THICKNESSES:  
     5" X 5" P.V.C. POST: 0.135" (135 MIL)  
     2" X 6" P.V.C. RAIL: 0.100" (100 MIL)
3. P.V.C. RAILS SHALL BE CONNECTED TO P.V.C. POSTS AT 16' O.C. BY USE OF A ROUTED POST/GRAVITY LOCK METHOD (OR APPROVED EQUAL). TOP AND BOTTOM RAIL CONNECTIONS SHALL BE STAGGERED EVERY 8'.
4. P.V.C. POSTS LOCATED AT THE MIDPOINT OF P.V.C. RAILS SHALL HAVE ROUTED HOLES TO PROVIDE A PASS THROUGH FOR P.V.C. RAILS.
5. P.V.C. EQUESTRIAN TRAIL FENCING SHALL BE PLACED PER THE APPROPRIATE CASE SHOWN ON THIS STANDARD PLAN.
6. P.V.C. POSTS SHALL EXTEND 42" (OR 48") ABOVE THE FINISH GRADE. SPACING OF RAILS SHALL BE DONE IN SUCH A MANNER AS TO ACCOMODATE THE SPACING LIMITS SHOWN.
7. INSTALLATION SHALL BE PER MANUFACTURER'S STANDARDS.
8. IN CASE OF CONFLICT BETWEEN POST FOUNDATION AND UNDERGROUND UTILITIES, CONTRACTOR SHALL CONSTRUCT POST FOUNDATION PER ALTERNATE FOUNDATION DETAIL SHOWN ABOVE. CONTRACTOR SHALL PROTECT UNDERGROUND UTILITY IN PLACE DURING CONSTRUCTION.
9. PVC POSTS SHALL BE LOCATED BETWEEN 4' (MINIMUM) AND 8' (MAXIMUM) AWAY FROM DRIVEWAYS.
10. PVC POSTS SHALL BE LOCATED 3' AWAY FROM FIRE HYDRANTS AND TREES.
11. REPLACEMENT OF EXISTING WOOD FENCE WITH PVC FENCE MUST BE APPROVED BY THE PUBLIC WORKS DEPT.

<b>REVISION</b>	NO:	BY:	DATE:	NO:	BY:	DATE:	APPROVED:  CITY ENGINEER 27172 RCE
Drawn By: SJN			Date: 03/31/16				
<b>PVC EQUESTRIAN TRAIL FENCING DETAIL</b>							Std. Dwg. No. <b>706</b> Sheet 3 of 3

# CITY of NORCO STANDARD DRAWING



## HORSETRAIL at IMPROVED INTERSECTION



## HORSETRAIL at UNIMPROVED INTERSECTION

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

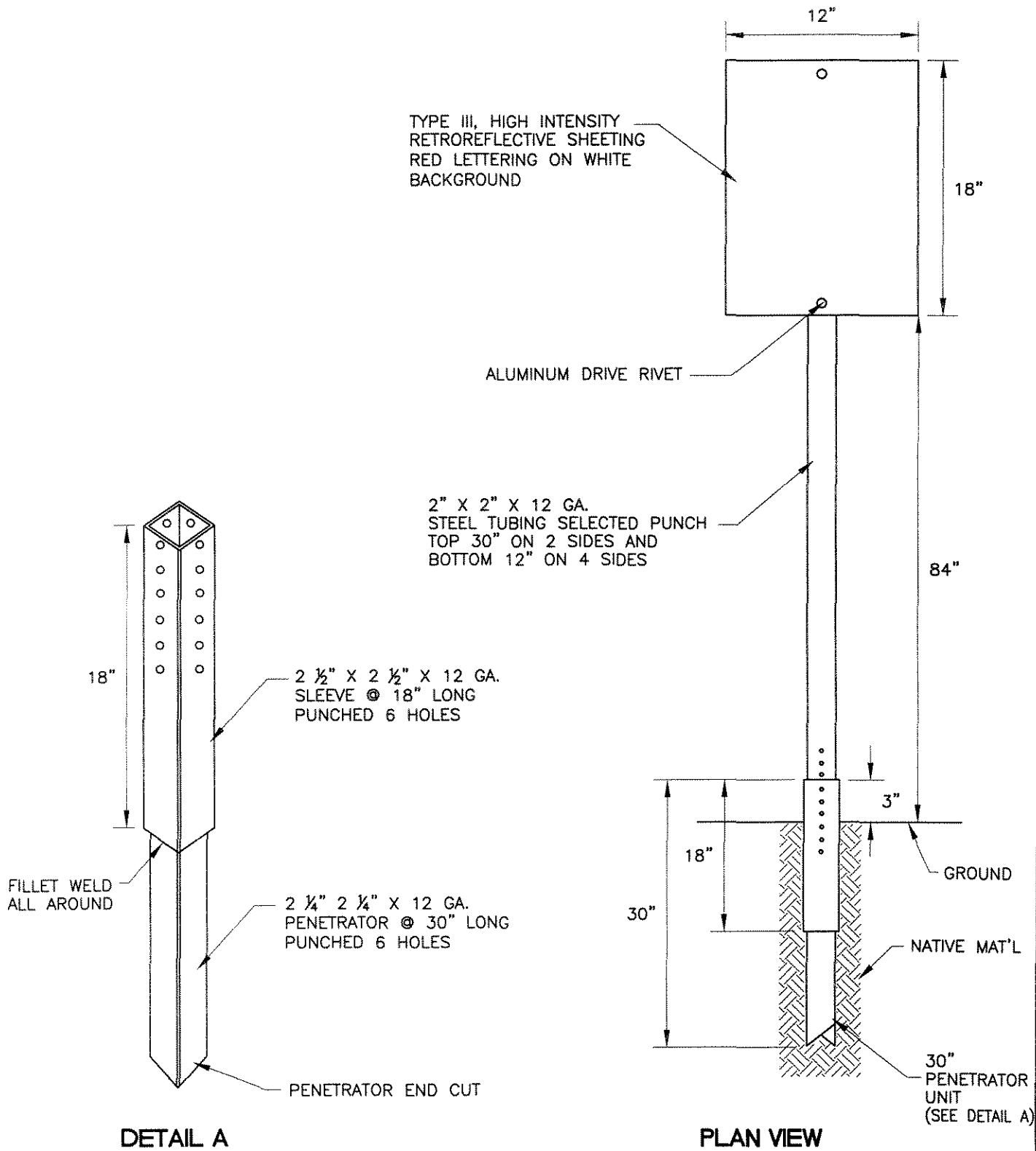
Drawn By: LJA      Date: 12/21/04

APPROVED: *Joseph S. Schenk* 24039  
CITY ENGINEER      RCE

## EQUESTRIAN TRAIL at CORNER

Std. Dwg. No.  
**710**  
Sheet 1 of 1

# CITY of NORCO STANDARD DRAWING



**DETAIL A**

**PLAN VIEW**

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:	12/16/04  APPROVED: <i>Joseph S. Schenk</i> 24039 CITY ENGINEER RCE
Drawn By: LJA			Date: 3/19/04				
<b>HORSE TRAIL SIGN</b>							Std. Dwg. No. <b>720</b> Sheet 1 of 1