

City of Brentwood Standard Plans and Specifications

TABLE OF CONTENTS

STANDARD DETAILS

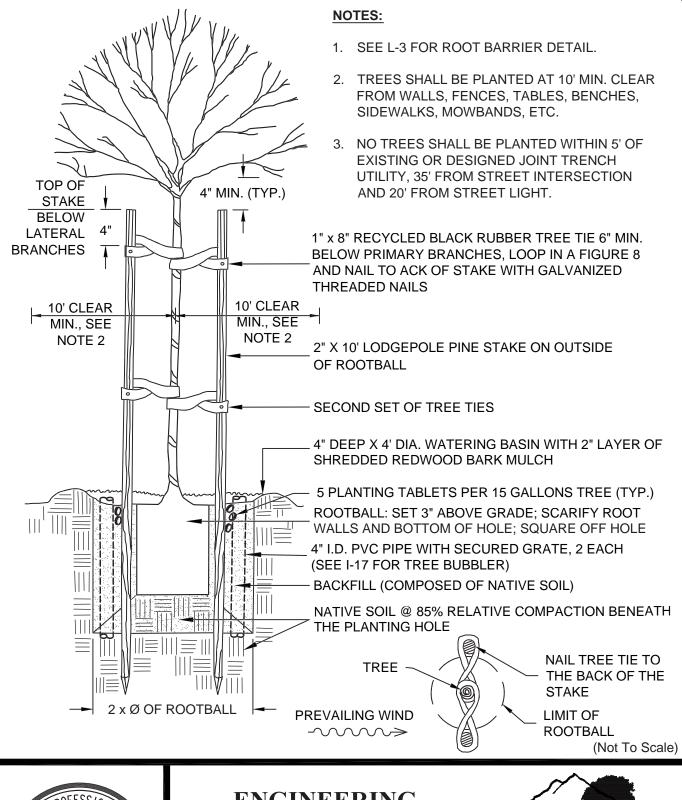
LANDSCAPE (I	_)
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TREE PLANTING	L-1
SHRUB/GROUND COVER SPACING	L-2
ROOT BARRIER DETAIL	L-3
SHRUB PLANTING DETAILS	L-4
HEADERBOARD ON PLANTING AREAS	L-5
COBBLE STONE PAVING	L-6
ASPHALTIC CONCRETE WALK DETAIL	L-7
BIKE TRAIL PAVING DETAIL	L-8
CONCRETE MOWING STRIP	L-9
TYPICAL TREE GUYING FOR 24" BOX	L-10
BLANK	L-11
REMOVABLE METAL BOLLARD	L-12
COLLAPSIBLE METAL BOLLARD DETAILS (1)	L-12a
COLLAPSIBLE METAL BOLLARD DETAILS (2)	L-12b
HANDICAP & PET ACCESSIBLE STAINLESS STEEL DRINKING FOUNTAIN	L-13
DRAIN SUMP	L-14
TURF CELL	L-15
ENHANCED WOOD FENCE	L-16
PARK DISPENSER	L-17
BLANK	L-18
PARK IDENTIFICATION SIGN - I	L-19
PARK IDENTIFICATION SIGN - II	L-20
CHAIN LINK FENCE	L-21a
CHAIN LINK FENCE NOTES	L-21b
TWO RAIL CONCRETE FENCE	L-22a
STANDARD BIKE RACK	L-23
POURED IN PLACE SAFETY SURFACING	L-24
LANDSCAPE BERM DETAIL	1 25



City of Brentwood Standard Plans and Specifications

PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF	
DROP INLET DETAILS	L-26a
DROP INLET TABLE	L-26b
GRATE LOCKING DETAILS FOR INLETS GRATE	L-260
BOLT DETAILS	L-260
FRAME & GRATE DETAILS	L-26e
FRAME TABLE	L-26f
GRATE TABLE	L-26g
DRAIN BOX 10-3/8" I.D. X 12"	L-27
PARK BENCH DETAIL	L-28a
PARK BENCH DETAIL NOTES	L-28b
LANDSCAPE PICNIC TABLE	L-29
HANDICAD ACCESSIBLE LANDSCADE DICNIC TABLE	1 -30





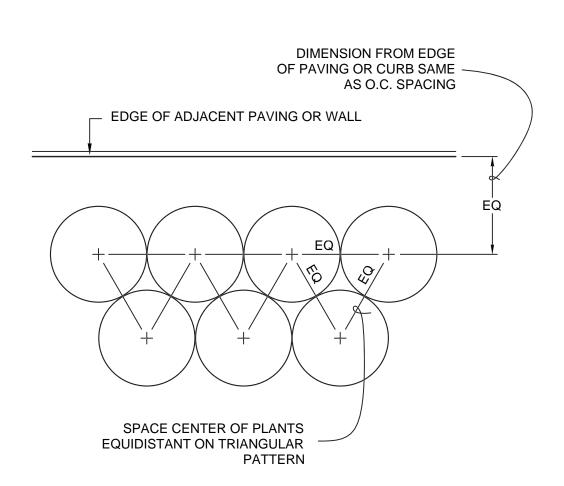
ENGINEERING DEPARTMENT



TREE PLANTING

Byen	
BALWINDER S. GREWAL	CITY ENGINEER

DATE:	APRIL 16, 2008
REVISED:	DEC. 31, 2013



(Not To Scale)



ENGINEERING DEPARTMENT

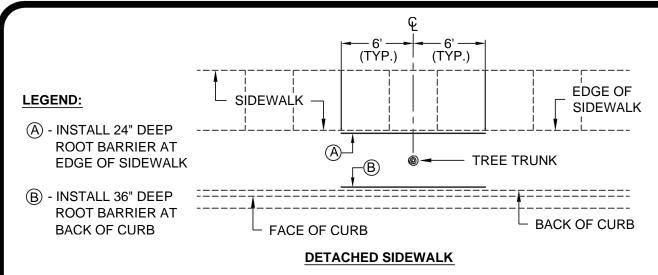


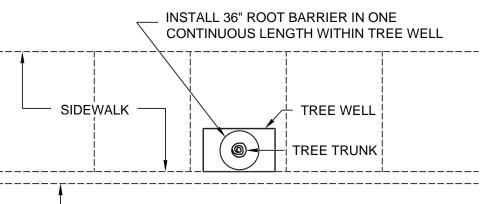
SHRUB/GROUND COVER SPACING

BALWINDER S. GREWAL CITY ENGINEER F

DATE: MAY 28, 1999

REVISED: DEC. 31, 2013





MONOLITHIC CURB AND SIDEWALK

- FACE OF CURB

- ROOT BARRIERS SHALL BE REQUIRED FOR ALL TREES PLANTED WITHIN 5' OF HARDSCAPE.
- 2. 24" AND 36" ROOT BARRIER SHALL BE HIGH DENSITY AND HIGH IMPACT PLASTIC AS AVAILBLE FROM "DEEP ROOT," VESPRO, INC. OR EQUIVALENT AS APPROVED BY PARKS AND RECREATION DEPARTMENT.
- 3. TOP OF ROOT BARRIER SHALL BE SET $\frac{1}{2}$ " \pm ABOVE FINISHED GRADE OF SOIL. HOWEVER, UNDER NO CIRCUMSTANCES SHALL THE TOP OF ROOT BARRIER EXTEND ABOVE ADJACENT CURB, SIDEWALK OR OTHER HARD SURFACING, AND SHALL NE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 4. REFER TO THE URBAN AND FOREST GUIDELINE FOR MIN. PLANTER SIZE REQUIREMENTS AVAILABLE AT http://www.ci.brentwood.ca.us/department/parks/urban_trees/index.cfm. (Not To Scale)



ENGINEERING DEPARTMENT

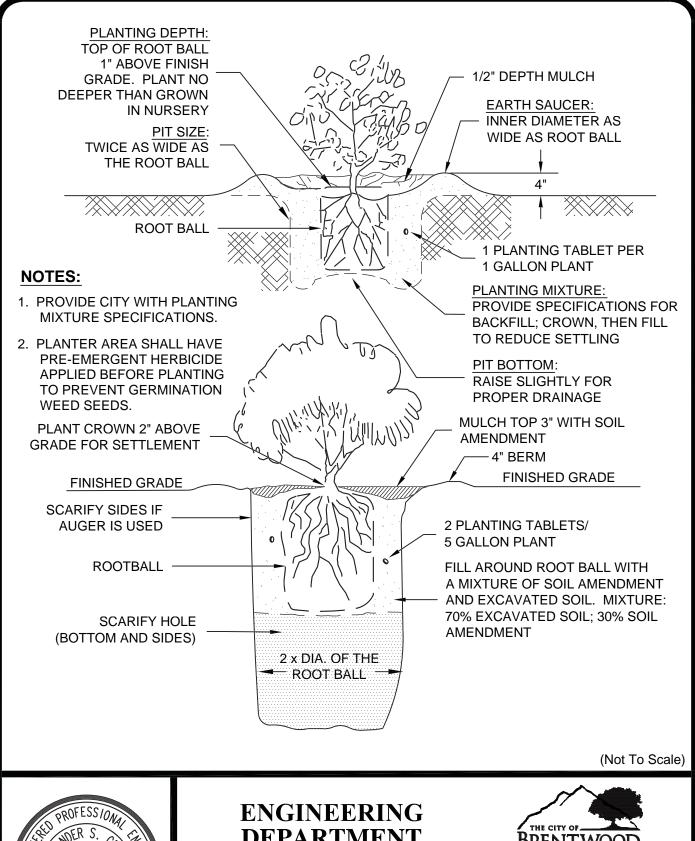


ROOT BARRIER DETAIL

BALWINDER S. GREWAL CITY ENGINEER

DATE: AUG. 29, 2005

REVISED: DEC. 31, 2013



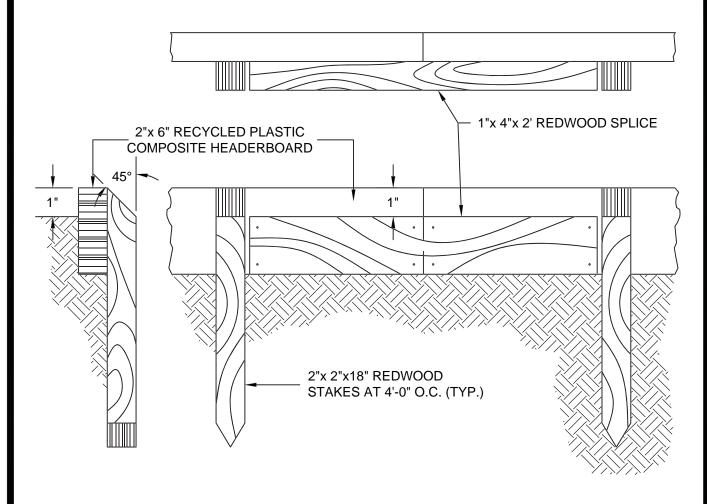


DEPARTMENT



SHRUB PLANTING DETAILS

Byen		DATE:	JULY 17, 2007	SHEET No.
BALWINDER S. GREWAL	CITY ENGINEER	REVISED:	DEC. 31, 2013	L-4



- 1. INSTALL ALL STAKES AND SPLICES ON PLANTING SIDE OF HEADERBOARD.
- 2. FASTEN HEADERBOARD WITH GALVANIZED DECK SCREWS.

(Not To Scale)



ENGINEERING DEPARTMENT

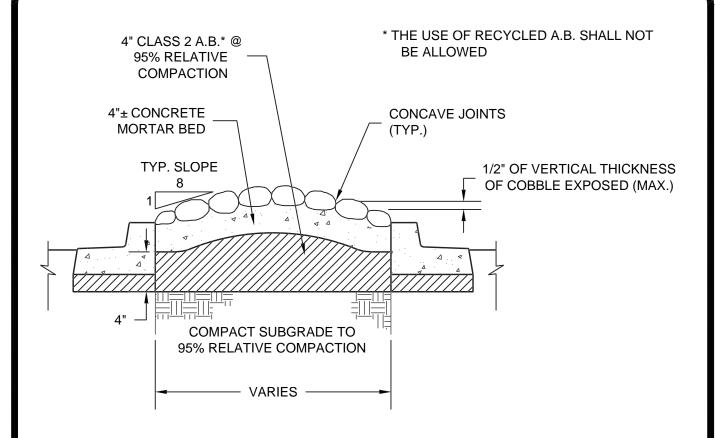


HEADERBOARD ON PLANTING AREAS

BALWINDER S. GREWAL CITY ENGINEER

DATE: AUG. 15, 2003

REVISED: DEC. 31, 2013



INSTALLATION NOTES:

- 1. COBBLES SHALL BE 2" TO 4" Ø NOIYO OR APPROVED EQUAL (SUBMIT SAMPLE FOR REVIEW), SMOOTH AND ROUNDED WITH NO SHARP OR BROKEN EDGES.
- 2. CLEAN COBBLES OF MUD AND DUST PRIOR TO PLACEMENT.
- 3. SET COBBLES RANDOMLY BUT WITH SMALLER COBBLES NEAR EDGES OF PAVING.
- 4. AFTER COBBLES ARE SET, WASH ALL CONCRETE OFF; LET DRY AND APPLY 2 COATS OF UNDILUTED GLAZE AND SEAL CONCRETE AND MASONRY LACQUER OR EQUIVALENT AS APPROVED BY PARKS AND RECREATION DEPARTMENT.
- 5. MOISTURE CONTENT SHALL BE 3% ABOVE OPTIMUM.

(Not To Scale)



ENGINEERING DEPARTMENT



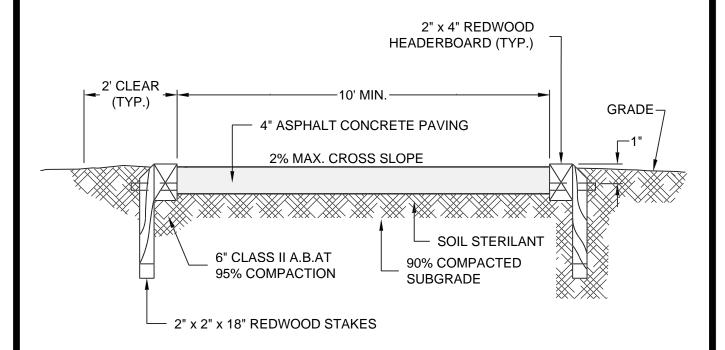
COBBLE STONE PAVING

BALWINDER S. GREWAL CITY ENGINEER

DATE: JUNE 20, 2003

REVISED: DEC. 31, 2013

L-6



- 1. HEADERBOARD SHALL BE REDWOOD, ROUGH, CONTRUCTION HEART GRADE, IN ACCORDANCE TO CALIFORNIA ASSOCIATION GRADING RULES.
- 2. ALL NAILS SHALL BE GALVANIZED.
- 3. THE USE OF RECYCLED A.B. SHALL NOT BE ALLOWED.
- 4. FOR ADDITIONAL REQUIREMENTS, SEE THE CURRENT "CREEK TRAILS AND REVEGETATION MASTER PLAN."

(Not To Scale)



ENGINEERING DEPARTMENT

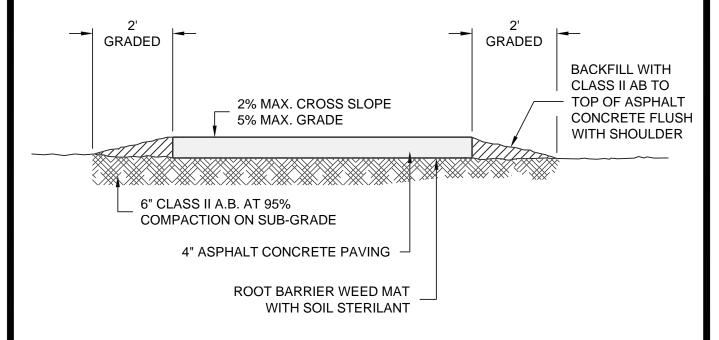


ASPHALTIC CONCRETE WALK DETAIL

BALWINDER S. GREWAL CITY ENGINEER

DATE: JULY 12, 2007

REVISED: DEC. 31, 2013



- 1. BIKE TRAIL SHALL BE CLASS 1 BIKEWAY.
- 2. BIKE PATHS CLOSER THAN 5' FROM THE EDGE OF THE TRAVEL WAY SHALL INCLUDE AN APPROVED PHYSICAL BARRIER (I.E. CHAINLINK FENCES OF DENSE SHRUBS) TO PREVENT BICYCLISTS FROM ENCROACHING INTO THE TRAVEL WAY.
- 3. THE USE OF RECYCLED A.B. SHALL NOT BE ALLOWED.

(Not To Scale)



ENGINEERING DEPARTMENT

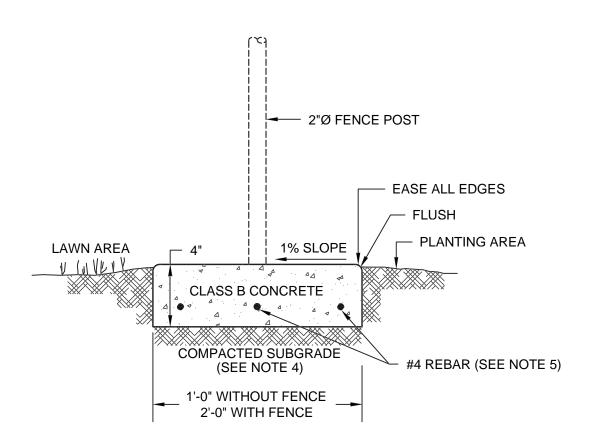


BIKE TRAIL PAVING DETAIL

BALWINDER S. GREWAL CITY ENGINEER

DATE: JUNE 20, 2003

REVISED: DEC. 31, 2013



- 1. PROVIDE WEAKENED PLANE JOINTS 1" DEEP AT 5'-0" ON CENTER.
- 2. PROVIDE EXPANSION JOINTS AT 10'-0" INTERVALS AND WHERE CONCRETE WALK JOINS ANOTHER.
- 3. BROOM FINISH UNLESS OTHERWISE SPRCIFIED.
- 4. COMPACT SUBGRADE TO 90% OF RELATIVE COMPACTION AND WITHIN 3% OF OPTIMUM MOISTURE.
- 5. PROVIDE 1-#4 REBAR FOR 1'-0" AND 2-#4 REBAR ON 2'-0" MOWBAND.

(Not To Scale)



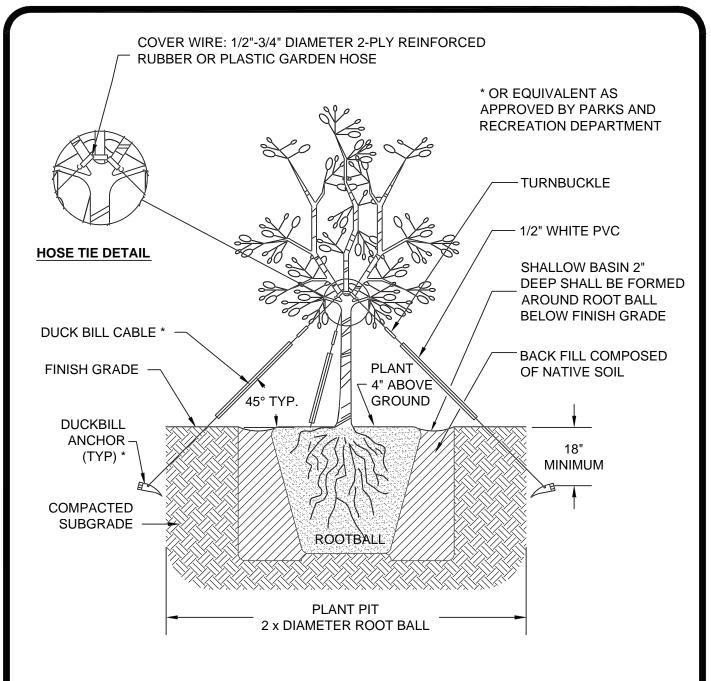
ENGINEERING DEPARTMENT



CONCRETE MOWING STRIP

Boren	
BALWINDER S. GREWAL	CITY ENGINEER

DATE:	MAR. 30, 2001
REVISED:	DEC. 31, 2013



ALL 30" BOX TREES OR LARGER, INCLUDING MULTI-TRUNK SPECIMENS, SHALL BE GUYED AS SHOWN.

(Not To Scale)



ENGINEERING DEPARTMENT



TYPICAL TREE GUYING FOR 24" BOX

BALWINDER S. GREWAL CITY ENGINEER

DATE: JUNE 16, 2003

REVISED: DEC. 31, 2013

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(Not To Scale)



ENGINEERING DEPARTMENT



DATE:

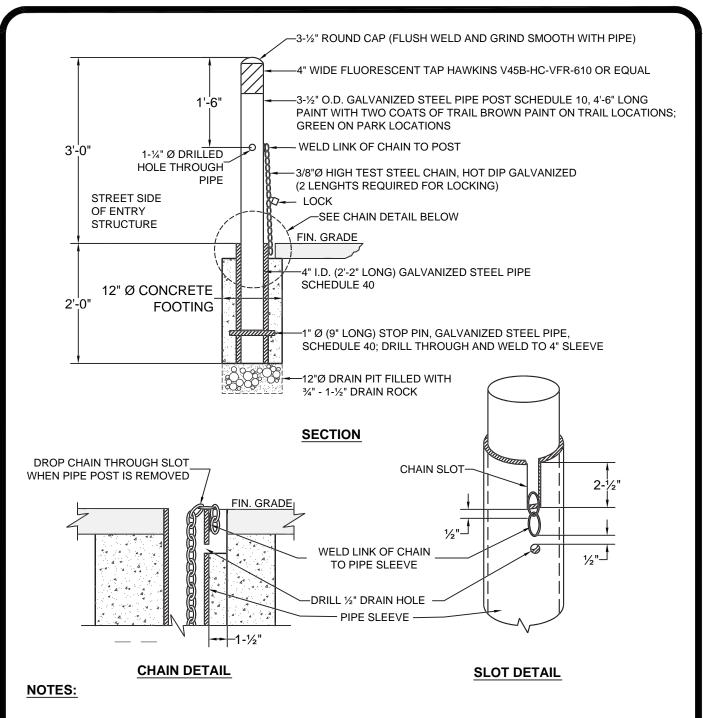
ALWINDER S. GREWAL

CITY ENGINEER

REVISED:

SHEET NO.

L-11



- 1. CHAIN LINK CHAIN AND SLOT SHALL BE INSTALLED PARALLEL TO CENTERLINE OF TRAIL.
- 2. FOR BOLLARD LIGHTS, SEE SL-8.

(Not To Scale)

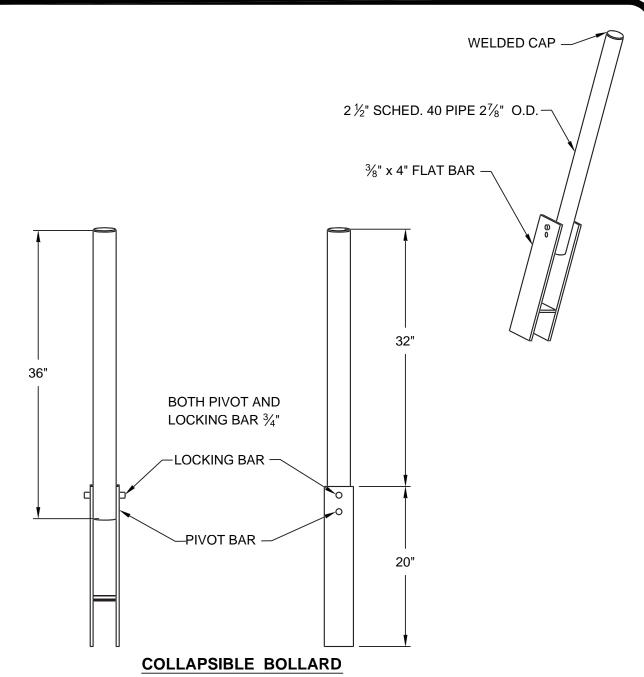


ENGINEERING DEPARTMENT



REMOVABLE METAL BOLLARD

BALWINDER S. GREWAL CITY ENGINEER DEC. 31, 2013 SHEET No. L-12



CAT # PW/CGP

- BOLLARDS CAN BE OBTAINED THROUGH PLACER WATERWORKS INC. OR APPROVED EQUAL.
- SEALED WITH PITTSBURG PAINT PRODUCT 95-912 (YELLOW) 68% WEIGHT SOLIDS.

(Not To Scale)



ENGINEERING DEPARTMENT

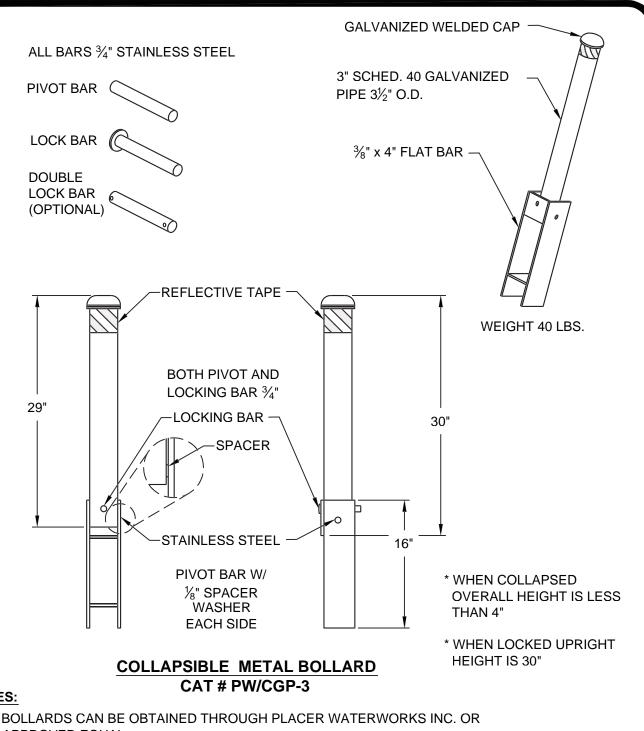


COLLAPSIBLE METAL BOLLARD DETAILS (1)

BALWINDER S. GREWAL CITY ENGINEER

DATE: DEC. 31, 2013 REVISED:

SHEET No. L-12a



- APPROVED EQUAL.
- IF PAINTED GALVANIZED PIPE IS ETCHED THEN COATED W/ URETHANE COATING. STANDARD COLOR YELLOW.

(Not To Scale)



ENGINEERING DEPARTMENT

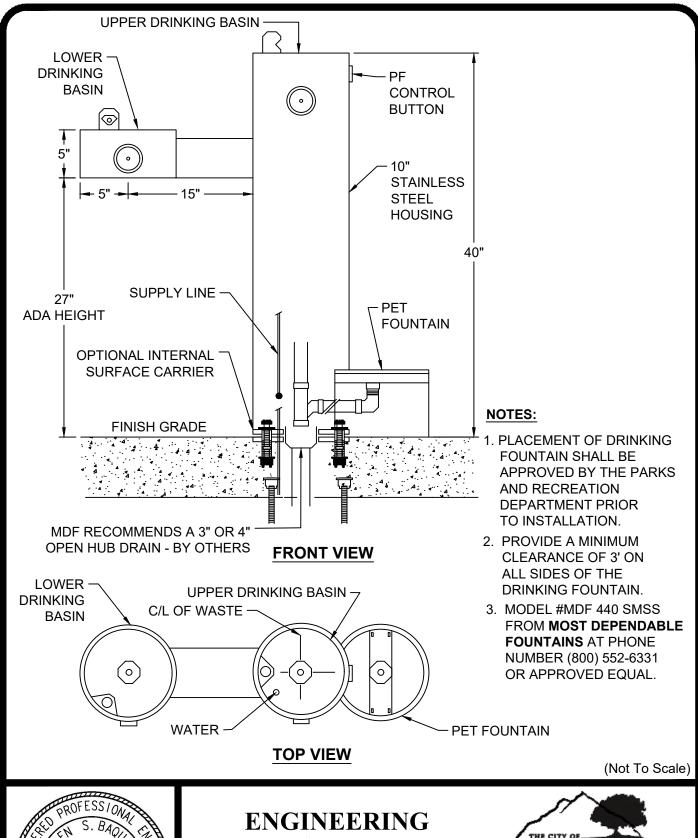


COLLAPSIBLE METAL BOLLARD DETAILS (2)

DATE: REVISED: BALWINDER S. GREWAL CITY ENGINEER

DEC. 31, 2013

L-12b





DEPARTMENT

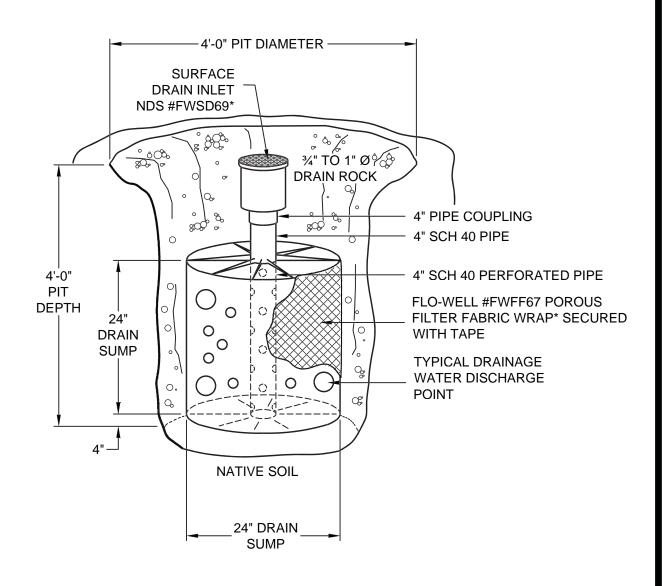


HANDICAP AND PET ACCESSIBLE STAINLESS STEEL DRINKING FOUNTAIN

CITY ENGINEER

DATE:	JUNE 20, 2003	
REVISED:	IAN 22 2024	

L-13



* OR AS APPROVED BY THE PARKS AND RECREATION DEPARTMENT.

(Not To Scale)



ENGINEERING DEPARTMENT

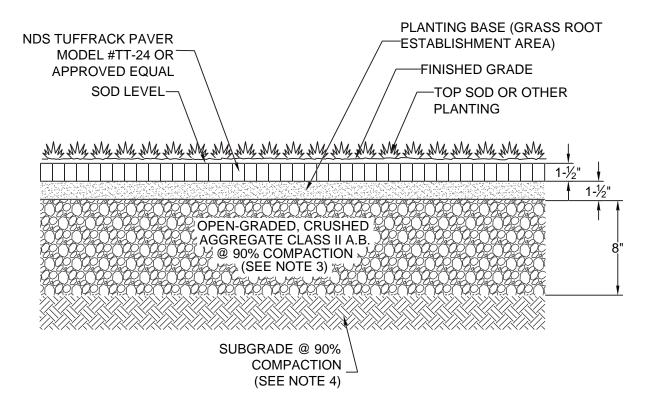


DRAIN SUMP

BALWINDER S. GREWAL CITY ENGINEER

DATE: JULY 31, 2003

REVISED: DEC. 31, 2013



- 1 TURF CELLS SHALL BE USED WHERE TURF AREAS ARE USED WITH VEHICULAR ACCESS AND INFREQUENT PARKING SUCH AS RESIDENTIAL DRIVEWAYS, OVERFLOW PARKING AREAS, THE OUTER 1/3 OF COMMERCIAL AND RETAIL DEVELOPMENTS WHERE PARKING SPACE IS USED LESS OFTEN AND FOR SHORTER PERIODS OF TIME, FIRE/ EMERGENCY ACCESS ROADS, UTILITY ROADS, STREET SHOULDERS.
- 2. SLOPE SHALL BE EQUAL TO OR LESS THAN 5%.
- 3. BASE COURSE SHALL BE OPEN-GRADED AND COMPOSED OF CRUSHED ROCK (NOT ROUNDED).
- 4. SUBGRADE SHALL BE DESIGNED FOR ANTICIPATED LOADS.
- 5. WHERE THERE ARE NO DEEP PERMEABLE SOILS, UNDERDRAIN SYSTEM SHALL BE PROVIDED.
- 6. IRRIGATION SHALL BE REQUIRED TO MAINTAIN TURF.

(Not To Scale)



ENGINEERING DEPARTMENT

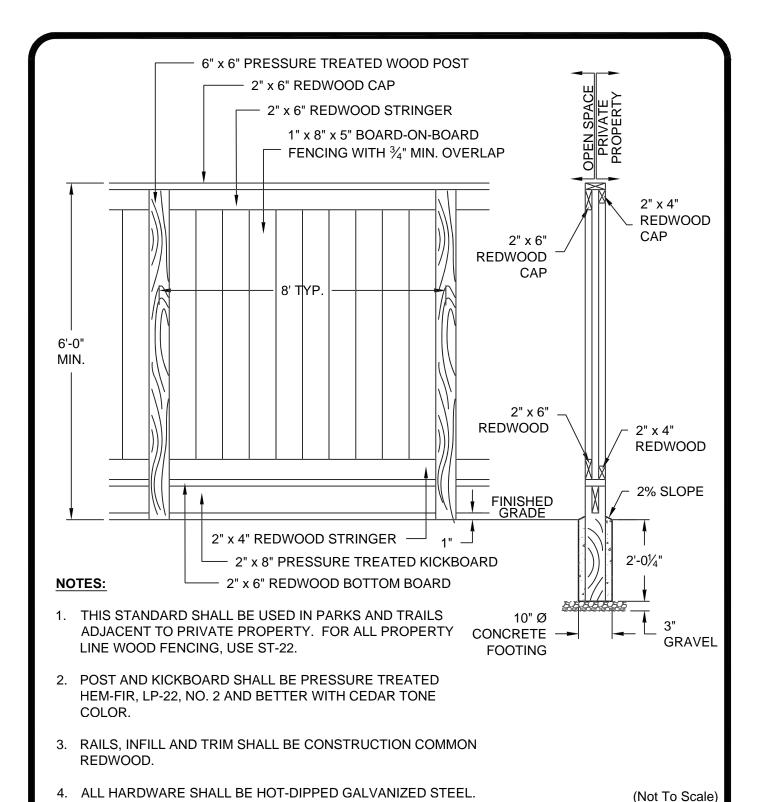


TURF CELL

BALWINDER S. GREWAL CITY ENGINEER

DATE: JULY 31, 2003

REVISED: DEC. 31, 2013





ENGINEERING DEPARTMENT

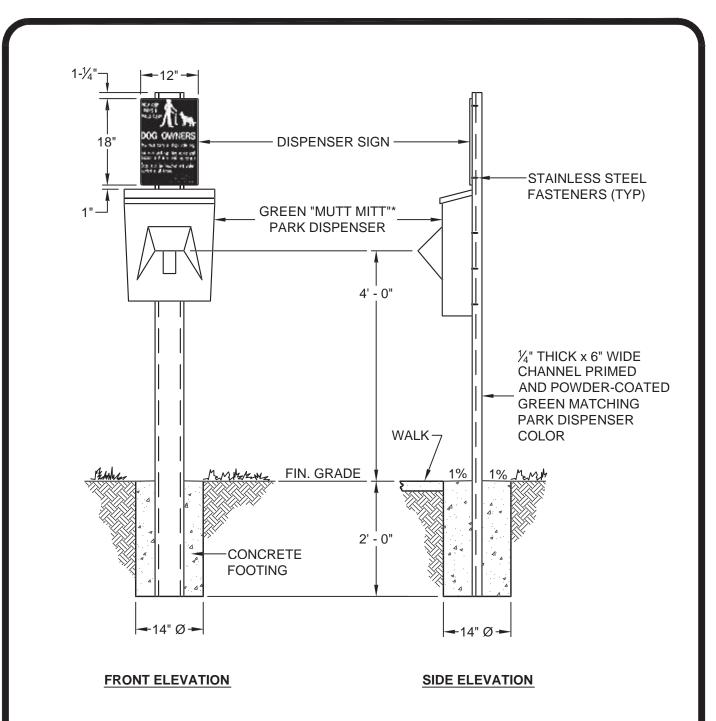


ENHANCED WOOD FENCE

BALWINDER S. GREWAL CITY ENGINEER

DATE: JUNE 16, 2003

REVISED: DEC. 31, 2013



* OR EQUIVALENT AS APPROVED BY THE PARKS AND RECREATION DEPARTMENT.

(Not To Scale)



ENGINEERING DEPARTMENT



PARK DISPENSER

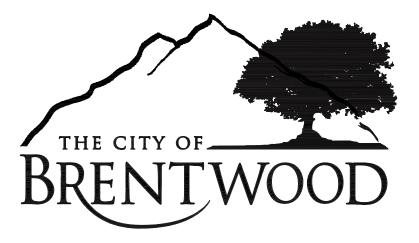
BALWINDER S. GREWAL CITY ENGINEER

DATE: AUG. 1, 2003

REVISED: DEC. 31, 2013

L-17

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(Not To Scale)

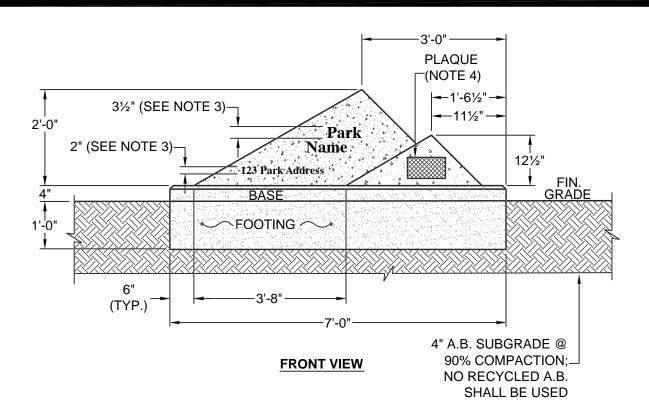


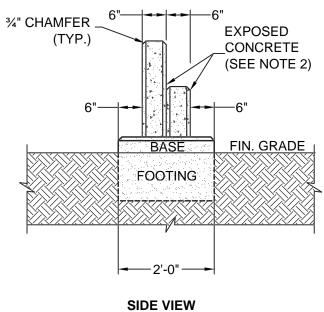
ENGINEERING DEPARTMENT



BALWINDER S. GREWAL CITY ENGINEER R

DATE:
REVISED:





- CONCRETE COLOR FOR PARK SIGN, BASE AND FOOTING SHALL BE INTEGRAL "PALMS SPRING TAN" OR APPROVED EQUAL.
- 2. ALL EXPOSED CONCRETE SHALL BE MEDIUM SANDBLAST FINISH.
- 3. PARK NAME LETTERS SHALL BE 3-1/2" HIGH, 1/2" DEPTH IMPRESSED "GARAMOND BOLD" FONT. PARK ADDRESS SHALL BE 2 INCH HIGH "HELVETICA" FONT. ALL LETTERS SHALL BE PAINTED FLAT BLACK.
- 4. 5-¼" H x 9-¼" W x ½" D RECESSED AREA. PLAQUE TO BE PROVIDED BY THE PARKS AND RECREATION DEPARTMENT.

(Not To Scale)



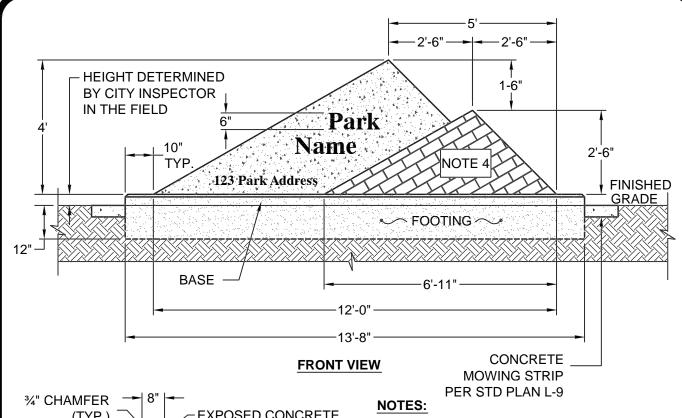
ENGINEERING DEPARTMENT



PARK IDENTIFICATION SIGN - I

Byen	
BALWINDER S. GREWAL	CITY ENGINEER

DATE:	APR. 29, 2005
REVISED:	DEC. 31, 2013



3/4" CHAMFER (TYP.) SIGN SIGN STONE VENEER (SEE NOTE 2) BASE FIN. GRADE FOOTING 4" A.B. SUBGRADE @ 90% COMPACTION; NO RECYCLED A.B. SHALL BE USED

SIDE VIEW

- CONCRETE COLOR FOR PARK SIGN, BASE AND FOOTING SHALL BE INTEGRAL "PALMS SPRING TAN" OR APPROVED EQUAL.
- 2. ALL EXPOSED CONCRETE SHALL BE MEDIUM SANDBLAST FINISH; STONE VENEER SHALL BE "EL DORADO STACKED STONE DESERT SHADOWS" OR APPROVED EQUAL.
- 3. PARK NAME LETTERS SHALL BE 6-INCH HIGH, ½-INCH DEPTH IMPRESSED "TIMES NEW ROMAN BOLD" FONT. PARK ADDRESS LETTERS SHALL BE 3-INCH HIGH "HELVETICA BOLD" FONT. ALL LETTERS SHALL BE PAINTED FLAT BLACK.
- 4. $10 \frac{1}{4}$ " H x $18 \frac{1}{4}$ " W AREA FOR PLAQUE TO BE PROVIDED BY THE PARKS AND RECREATION DEPARTMENT.

(Not To Scale)



ENGINEERING DEPARTMENT

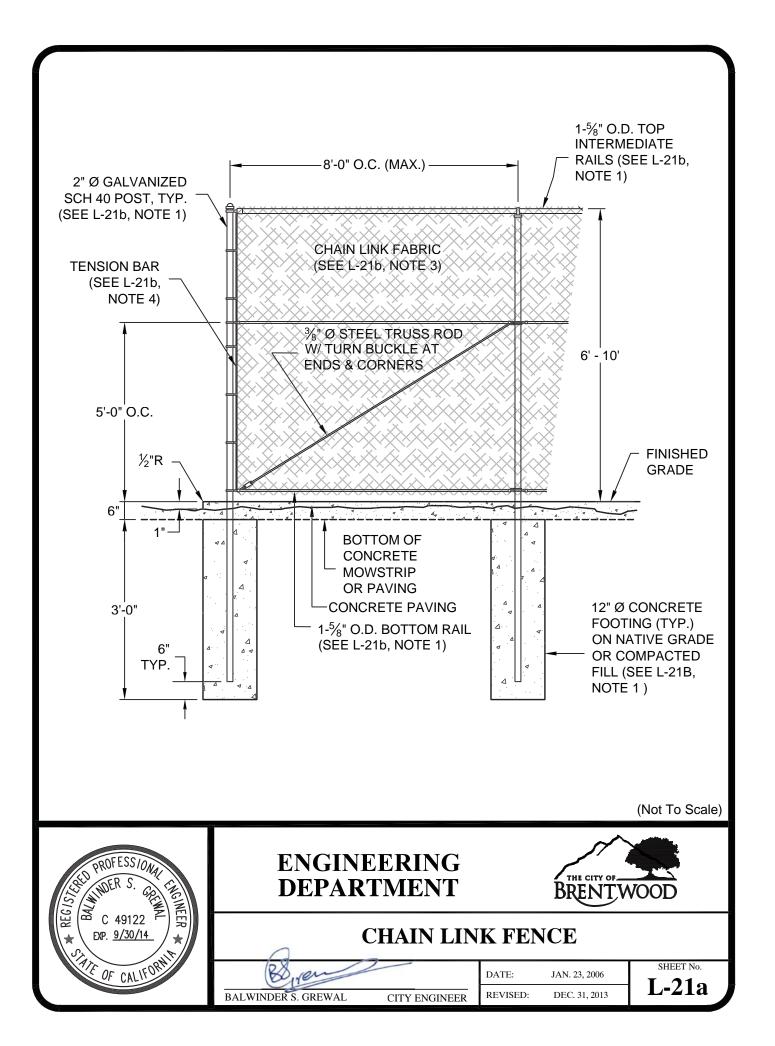


PARK IDENTIFICATION SIGN - II

BALWINDER S. GREWAL CITY ENGINEER

DATE: JULY 12, 2007

REVISED: DEC. 31, 2013



- INTERMEDIATE & BOTTOM RAILS SHALL BE CUT AND INSTALLED WITH 180°
 2-WAY BRACE BANDS AND RAIL ENDS AT THE LINE POSTS; STANDARD BRACE BANDS AND RAIL ENDS AT THE TERMINAL POSTS.
- 2. ALL METAL MATERIALS SHALL BE BLACK VINYL COATED. ANY MATERIALS WITH DAMAGE TO THE VINYL COATING SHALL EITHER BE REMOVED & REPLACED OR RECOATED IN THE FIELD TO THE SATISFACTION OF THE CITY ENGINEER.
- 3. CHAIN LINK FABRIC SHALL BE 9 GAUGE CORE, 2" MESH WITH KNUCKLED FINISH TOP & BOTTOM EDGES. IT SHALL BE FASTENED TO END AND CORNER POSTS WITH $\frac{3}{16}$ " x $\frac{3}{4}$ " HIGH CARBON STEEL.
- 4. TENSION BAR SHALL HAVE 9 GAUGE CORE BANDS AT 16" INTERVAL.
- 5. FOOTING SHALL BE 5'-0" DEEP AND 18" IN DIAMETER WHEN THE CHAIN LINK IS 10'-0" IN HEIGHT, IS SLATTED OR HAS A WINDSCREEN APPLIED AND/OR IS RECOMMENDED BY GEOTECHNICAL CONDITIONS.

(Not To Scale)



ENGINEERING DEPARTMENT



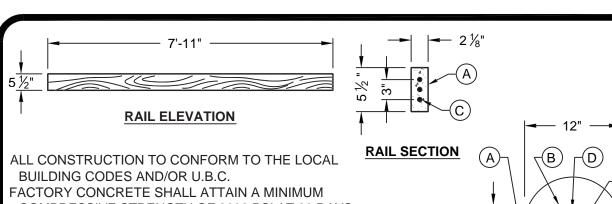
CHAIN LINK FENCE NOTES

BALWINDER S. GREWAL CITY ENGINEER RE

DATE: JAN. 23, 2006

REVISED: DEC. 31, 2013

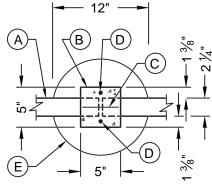
SHEET No. **L-21b**



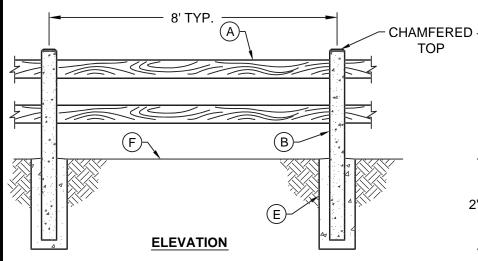
FACTORY CONCRETE SHALL ATTAIN A MINIMUM
COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
POURED IN PLACE CONCRETE SHALL ATTAIN A
MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28

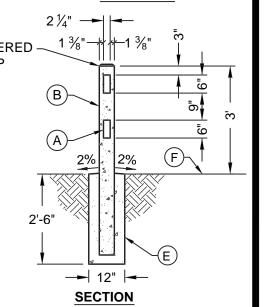
DAYS.
ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M.
A615. GRADE 60.

THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE JOB SITE WITH APPROVED PLANS.



PLAN VIEW





ITEM DESCRIPTION

- (A) PRECAST CONC. RAIL
- (B) PRECAST CONC. POST AT 8" O.C. MAX. WITH 3/4" CHAMFER AT TOP
- (C) (3) #2 BARS
- (D) (2) #4 BARS
- E 12"Ø x 30" DEEP CONCRETE FOOTING
- (F) FINISH GRADE

NOTES:

- 1. FENCE SYSTEM SHALL BE "WOODCRETE RAIL" OR EQUIVALENT AS APPROVED BY THE PARKS AND RECREATION DEPARTMENT. COLOR SHALL BE SANDLEWOOD.
- 2. POSTS AND RAILS SHALL HAVE EQUAL TEXTURE ON ALL SIDES.
- 3. EXPOSED ENDS OF RAILS SHALL BE SMOOTH/BEVELED.
- 4. SECURE END AND CORNER RAILS WITH CITY-APPROVED INDUSTRIAL ADHESIVE ON INTERIOR OF RAIL AT POST.
- 5. USE THE MOWBAND DETAIL OF CITY STANDARD PLAN L-9
 WHEN ADJACENT TO TURF. (Not To Scale)



ENGINEERING DEPARTMENT



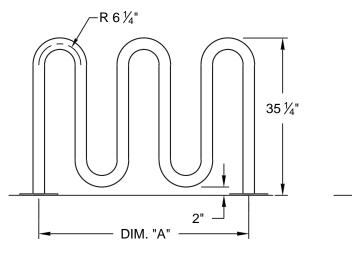
TWO RAIL CONCRETE FENCE

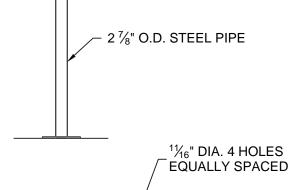
BALWINDER S. GREWAL CITY ENGINEER R

DATE: DEC. 31, 2013

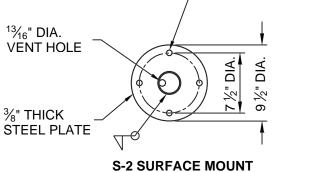
REVISED:

SHEET No. **L-22a**





MODEL NO.	PEAKS	DIM "A"
125-20	2	37 ½" LG.
125-30	3	62 ½" LG.
125-40	4	87 ½" LG.
125-50	5	112 ½" LG.

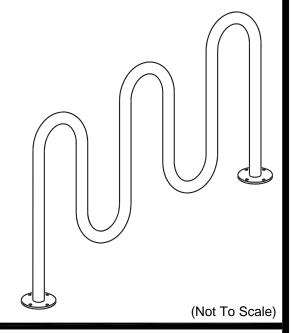


FINISH OPTIONS:

- HOT DIPPED GALVANIZED
- COATED W/ ZINC RICH EPOXY THEN FINISH W/ POLYESTER POWDER COATING

NOTE:

- 1. $\frac{1}{2}$ " x 3 $\frac{3}{4}$ " PLATED EXPANSION ANCHOR BOLTS PROVIDED FOR OPTION S-2.
- 2. FINISH MATERIAL IS STAINLESS STEEL.
- 3. SINGLE INVERTED "U" RACK MAY BE USED IN APPROPRIATE SITUATIONS.
- 4. MATERIALS CAN BE OBTAINED THROUGH DUMOF INC. P.O. BOX 142, MIFFLINTOWN, PA 17059-0142, 125 SERIES OR APPROVED EQUAL.
- 5. AN ALTERNATIVE SOURCE AND OPTIONS IS BIKE PARKING.COM. TEL. (888) 764-2453, PALMER GROUP LLC, 1728 OCEAN AVE., #132, SAN FRANCISCO, CA 94112.





ENGINEERING DEPARTMENT

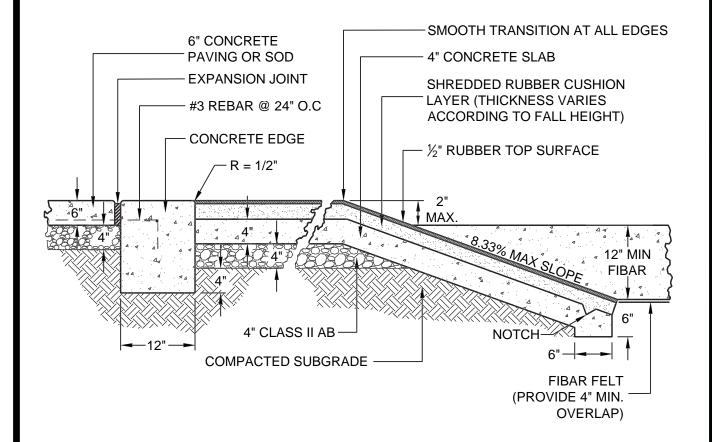


STANDARD BIKE RACK

BALWINDER S. GREWAL CITY ENGINEER

DATE: DEC. 31, 2013

REVISED:



THIS STANDARD SHALL BE USED ON ALL PLAY AREAS AND PARK PLAYGROUND.

(Not To Scale)



ENGINEERING DEPARTMENT

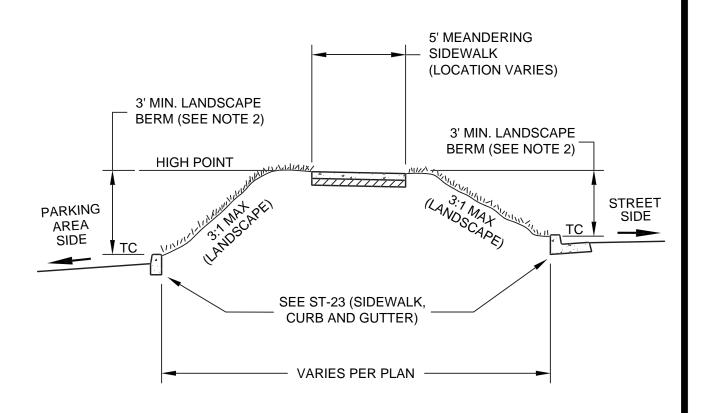


POURED IN PLACE SAFETY SURFACING

BALWINDER S. GREWAL CITY ENGINEER

DATE: JULY 25, 2007

REVISED: DEC. 31, 2013



- 1. A LANDSCAPE BERM INSTALLATION SHALL BE REQUIRED BETWEEN THE STREET AND PARKING AREAS PER THIS STANDARD.
- 2. HEIGHT OF LANDSCAPE BERM SHALL BE 3' MINIMUM FROM THE TOP OF CURB (TC) TO THE HIGH POINT ON <u>EITHER</u> THE PARKING AREA SIDE <u>OR</u> STREET SIDE, WHICHEVER SIDE IS HIGHER IN ELEVATION.

(Not To Scale)



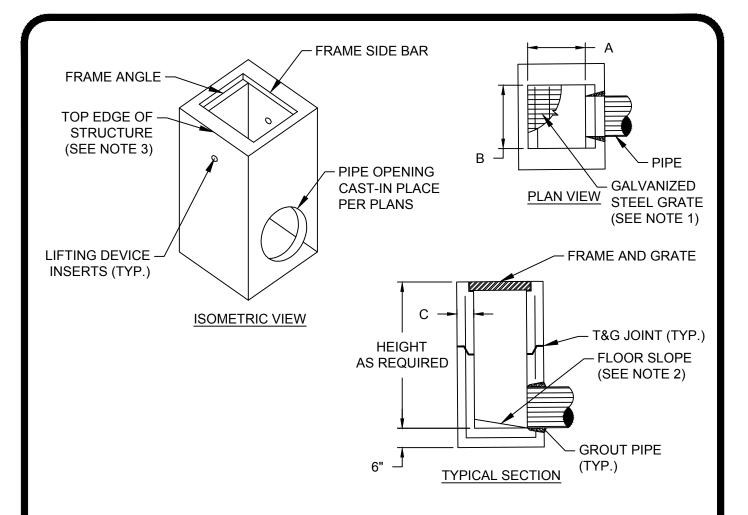
ENGINEERING DEPARTMENT



LANDSCAPE BERM DETAIL

BALWINDER S. GREWAL CITY ENGINEER	Boyen		
CITT ENGINEER	BALWINDER S. GREWAL	CITY ENGINEER	

DATE:	JUNE 8, 2007
REVISED:	DEC. 31, 2013



- 1. FRAMES AND GRATES TO BE SPECIFIED FOR PEDESTRIAN OR TRAFFIC LOADING. ALL GRATES TO BE BICYCLE PROOF. GRATE LOCKING DEVICE, CLOSED-MESH GRATES, OR CAST IRON FRAME AND GRATES AVAILABLE PER APPROVAL FROM CITY ENGINEER (SEE L-26c).
- 2. FLOOR SLOPE TO BE DETERMINED IN THE FIELD BY CITY OF BRENTWOOD INSPECTOR.
- 3. TOP EDGE OF STRUCTURE TO BE STRAIGHT OR CHAMFERED PER APPROVAL OF THE CITY ENGINEER.
- 4. FOR ALL TURF AREAS THAT WOULD REQUIRE LARGER HEAVIER MAINTENANCE EQUIPMENT SUCH AS MOWERS, FERTILIZER AND HERBICIDE APPLICATIONS ETC.
- 5. SOURCE IS OLDCASTLE PRECAST INC. OR APPROVED EQUAL

FOR DROP INLET TABLE, SEE L-26b.

(Not To Scale)



ENGINEERING DEPARTMENT



PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF DROP INLET DETAILS

Jagtar Dhalwal
JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE: FEB. 5, 2016

REVISED:

SHEET No. **L-26a**

<u>DROP INLET TABLE</u> OLDCASTLE PRECAST INC. - MODEL REF: CP1212 OR APPROVED EQUAL

USCPG MODEL	SANTA	Α	В	С	
NO.	ROSA REF.	INCH	INCH	INCH	
CB1212	EK	12	12	4	
CB1818	СК	18	18	5	
CB1824	1K	18	24	5	
CB2424	2K	24	24	6	
CB2430	3K	24	30	5	
CB3030	5K	30	30	6	
CB2436	1L	24	36	6	
CB3636	1M	36	36	6	
CB2448	3L	24	48	6	
CB3648	ЗМ	36	48	6	
CB4848	1R	48	48	6	

FOR DROP INLET DETAILS, SEE L-26a.

(Not To Scale)



ENGINEERING DEPARTMENT



PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF DROP INLET TABLE

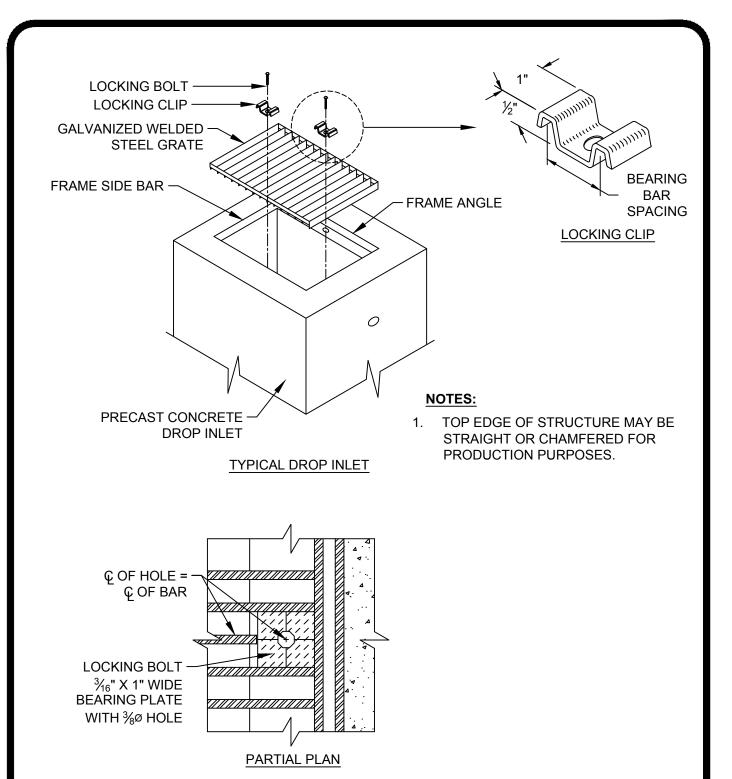
Jagtar Dhaliwal
JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE: FEB. 5, 2016

REVISED:

SHEET No.

L-26b







ENGINEERING DEPARTMENT



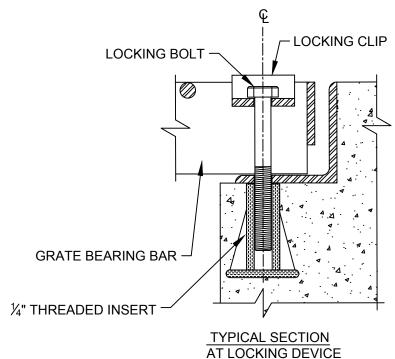
PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF GRATE LOCKING DETAILS FOR INLETS

Jagtar Singh Dhaliwal, Interim City Engineer

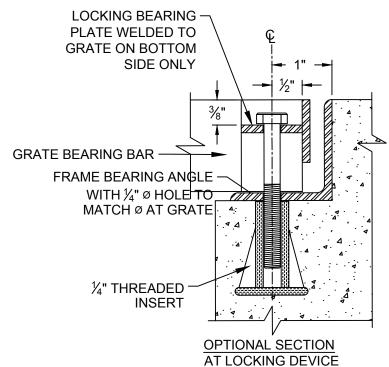
DATE: FEB. 5, 2016

REVISED:

SHEET No. **L-26c**



AT LOCKING DEVICE



(Not To Scale)



ENGINEERING DEPARTMENT



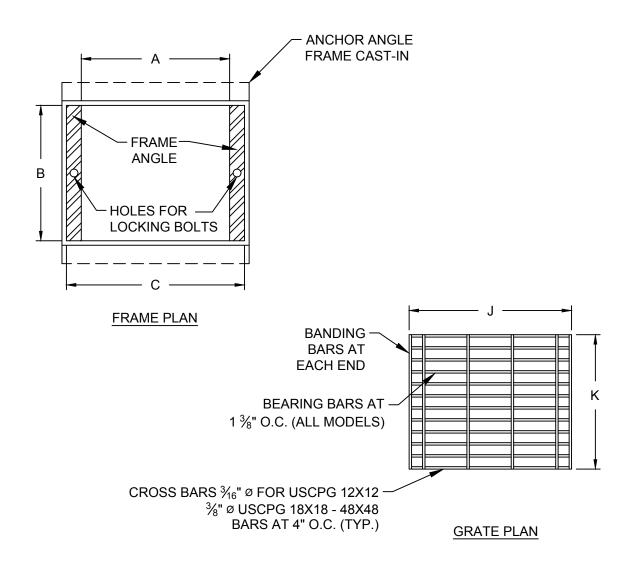
PEDESTRIAN TRAFFIC LOADING **BICYCLE-PROOF GRATE BOLT DETAILS**

JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE: FEB. 5, 2016

REVISED:

L-26d



- FRAMES AND GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM SPEC A-123.
- 2. FOR GRATE LOCKING DEVICE DETAILS, SEE STANDARD L-26d.
- 3. FOR FRAME DETAILS TABLE, SEE STANDARD L-26f
- 4. FOR GRATE DETAILS TABLE, SEE STANDARD L-26g
- 5. FRAME AND GRATES ARE F&G TRAFFIC MODELS PER OLDCSTLE PRECAST INC. OR APPROVED EQUAL

(Not To Scale)



ENGINEERING DEPARTMENT



PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF FRAME & GRATE DETAILS

Jagtar Shalwal
JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE:

FEB. 5, 2016

REVISED:

SHEET No.

L-26e

FRAME TABLE

USCPG MODEL	SANTA	А	В	С	BEARING ANGLE SEAT	SIDE ANGLE ANCHOR	WEIGHT
NO.	ROSA REF.	IN	IN	IN	IN	IN	LBS
CB1212TF	EK	12 %	12 %	15	2 x 1 ½ x ¾ ₆	2 x 1 ½ x ¾ ₆	10
CB1818TF	CK	18 %	18 %	21 1/4	2½ x 1½ x ¾ ₆	2½ x 1½ x ¾ ₆	16
CB1824TF	1K	18 ¾	24 %	21	2½ x 1½ x ¾ ₆	2½ x 1½ x ¾ ₆	19
CB2424TF	2K	24 %	24 %	27	2½ x 1½ x ¾ ₆	2½ x 1½ x ¾ ₆	21
CB2430TF	3K	24 ¾	30 ¾	27	2½ x 1½ x ¾ ₆	2½ x 1½ x ¾ ₆	24
CB2436TF	1L	24 %	36 ¾	27	2½ x 1½ x ¾ ₆	2½ x 1½ x ¾ ₆	26
CB2448TF	3L	24 ¾	48 %	27	2½ x 1½ x ¾ ₆	2½ x 1½ x ¾ ₆	31
CB3030TF	5K	30 %	30 ¾	34 ¾	3 ½ x 2 ½ x ½	3 x 2 x 1/4	43
CB3636TF	1M	36 %	36 ¾	40 ½	3 ³ ⁄ ₄ × 2 ½ × ½	3½×2½×¼	62
CB3648TF	3M	36 %	48 %	40 ½	3 ³ ⁄ ₄ × 2 ½ × ½	3½×2½×¼	84
CB4848TF	1R	48 %	48 %	52 ½	C4 x 5.4 w/FB 2 ½ x ¼	4 x 3 x ½	93

FOR FRAME DETAILS, SEE L-26e.

(Not To Scale)



ENGINEERING DEPARTMENT



PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF FRAME TABLE

Jagtar Shaliwal
JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE: FEB. 5, 2016

REVISED:

SHEET No.

L-26f

GRATES TABLE

USCPG	SANTA	J	К	BEARING BARS	BANDING BARS	WEIGHT
MODEL NO.	ROSA REF.	IN	IN	IN	IN	LBS
CB1212TG	EK	14¾	12	1 ¾ x ¾ ₆	1 ½ x ¾ ₆	15
CB1818TG	СК	20 %	18	2 1/4 x 3/16	2 x ¾ ₆	28
CB1824TG	1K	20 %	24	2 1/4 x 3/16	2 x ¾ ₆	28
CB2424TG	2K	26 %	24	2 1/4 x 3/16	2 x ¾ ₆	72
CB2430TG	3K	26 ½	30	2 1/4 x 3/16	2 x ¾ ₆	98
CB2436TG	1L	26 ½	36	2 1/4 x 3/16	2 x ¾ ₆	137
CB2448TG	3L	26 ½	48	2 1/4 x 3/16	2 x ¾ ₆	144
CB3030TG	5K	34 1/16	30 1/16	3 x 1/4	2 ½ x ¼	139
CB3636TG	1M	40	36 1/4	3 ½ × ¼	2 ½ x ¼	219
CB3648TG (2 PC)	ЗМ	40	23 %	3 ½ × ¼	2 ½ x ¼	282
CB4848TG (2 PC)	1R	52	23 ¹⁵ / ₁₆	4 x ½6	3 x 1⁄4	248

FOR GRATE DETAILS, SEE L-26e.

(Not To Scale)



ENGINEERING DEPARTMENT



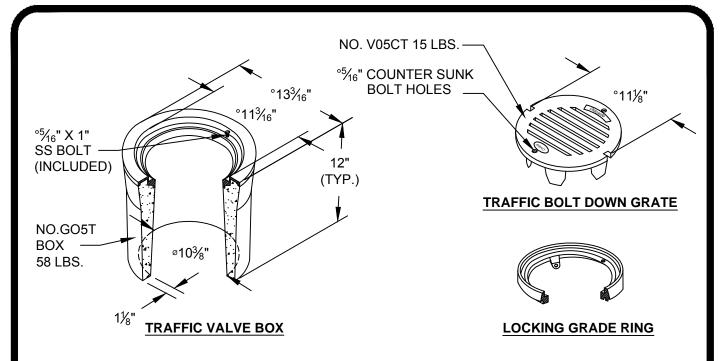
PEDESTRIAN TRAFFIC LOADING BICYCLE-PROOF GRATE TABLE

Jagtar Dhaliwal
JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE: FEB. 5, 2016

REVISED:

SHEET No. **L-26g**



OLDCASTLE ODERING CODE	ITEM	APPROXIMATE SHIPPING WEIGHT	DESCRIPTION
G05TBOX	BOX	58 LBS.	DG05T TRAFFIC VALVE BOX (10%" I.D. X 12" HIGH) - 36 PER PALLET - (INCLUDES ¼" -20 X 1", BOLTS)
V05-71CT	LID	15 LBS.	CAST IRON GRATE (INCLUDES HOLES FOR BOLT DOWN FEATURE) ADA COMPLIANT
G05X12	EXTENSION	38 LBS.	12" REINFORCED CONCRETE FOR G05 & G08 BOXES - 36 PER PALLET
G05TGR10	GRADE RING	10 LBS.	1" HIGH CAST IRON
G05TGR15	GRADE RING	14 LBS.	1½" HIGH CAST IRON
G05TGR20	GRADE RING	18 LBS.	2" HIGH CAST IRON

- 1. FOR ALL TRUF AREAS THAT ARE DESIGNED FOR PLAY AND RECREATION PURPOSES
- 2. SOURCE IS OLDCASTLE OR APPROVED EQUAL

(Not To Scale)



ENGINEERING DEPARTMENT



DRAIN BOX 10-3/8" I.D. X 12"

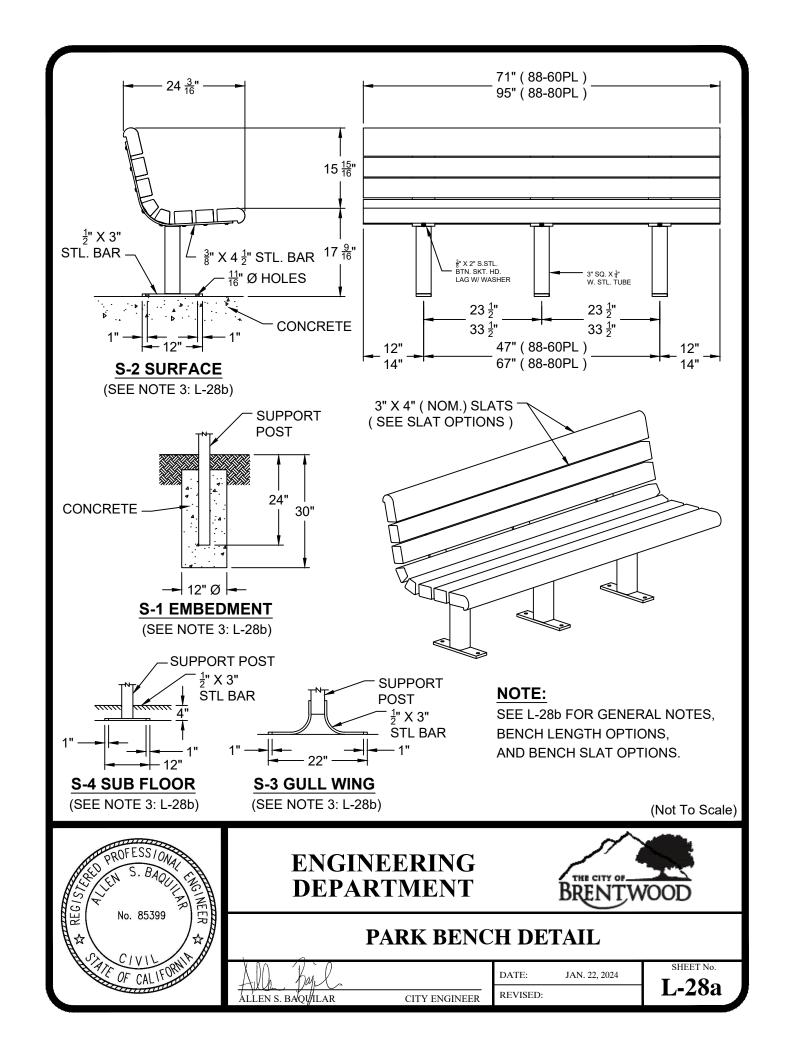
Jagtar Dhalwal
JAGTAR SINGH DHALIWAL, INTERIM CITY ENGINEER

DATE: FEB. 5, 2016

REVISED:

SHEET No.

L-27



- 1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
- 2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLT PROVIDED FOR S-2, S-3 & S-4 CONCRETE SURFACE TYPES.
- 3.) TYPES OF SULPHATE EXPOSURE TO CONCRETE SURFACE:
 - S-1 = SUPPORT POST EMBEDDED IN CONCRETE BELOW SURFACE.
 - S-2 = CONCRETE SUBJECTED TO SEVERE SULPHATE EXPOSURE.
 - S-3 = CONCRETE SUBJECTED TO MODERATE SULPHATE EXPOSURE.
 - S-4 = CONCRETE SUBJECTED TO MINIMUM SULPHATE EXPOSURE.

BENCH LENGTH OPTIONS:

- ☐ 6' BENCH
- □ 8' BENCH

BENCH SLAT OPTIONS:

- ☐ "CEDAR" RECYCLED PLASTIC
- ☐ "GREY" RECYCLED PLASTIC
- □ "REDWOOD" RECYCLED PLASTIC
- □ "WALNUT" RECYCLED PLASTIC
- □ OTHER____

(Not To Scale)



ENGINEERING DEPARTMENT



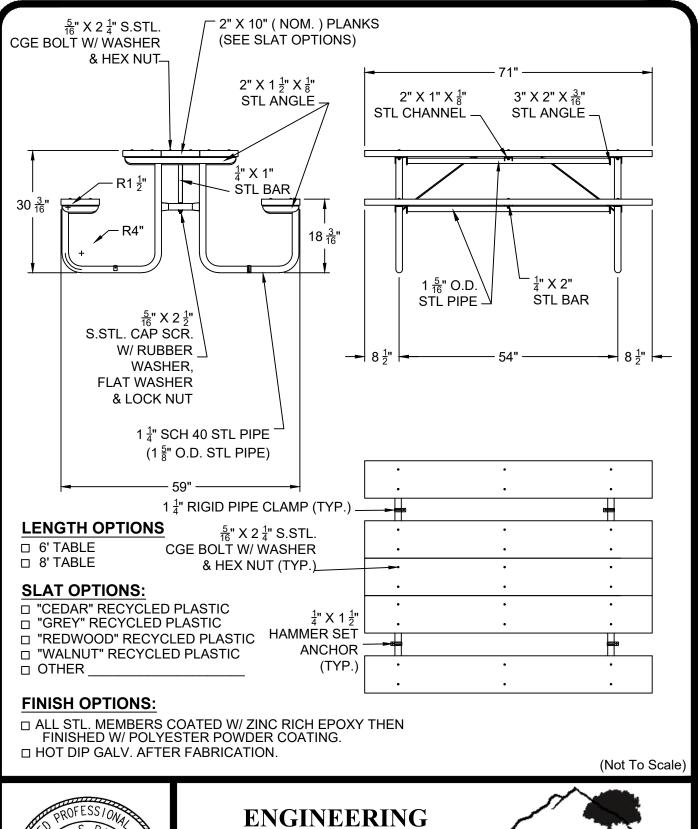
PARK BENCH DETAIL NOTES

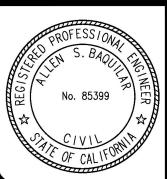
CITY ENGINEER

ALLEN S. BAQUIJAR

DATE:

JAN. 22, 2024





DEPARTMENT



LANDSCAPE PICNIC TABLE

SHEET No. DATE: JAN. 22, 2024 L-29 REVISED: ÁLLEN S. BAQ∜ILAR CITY ENGINEER

