

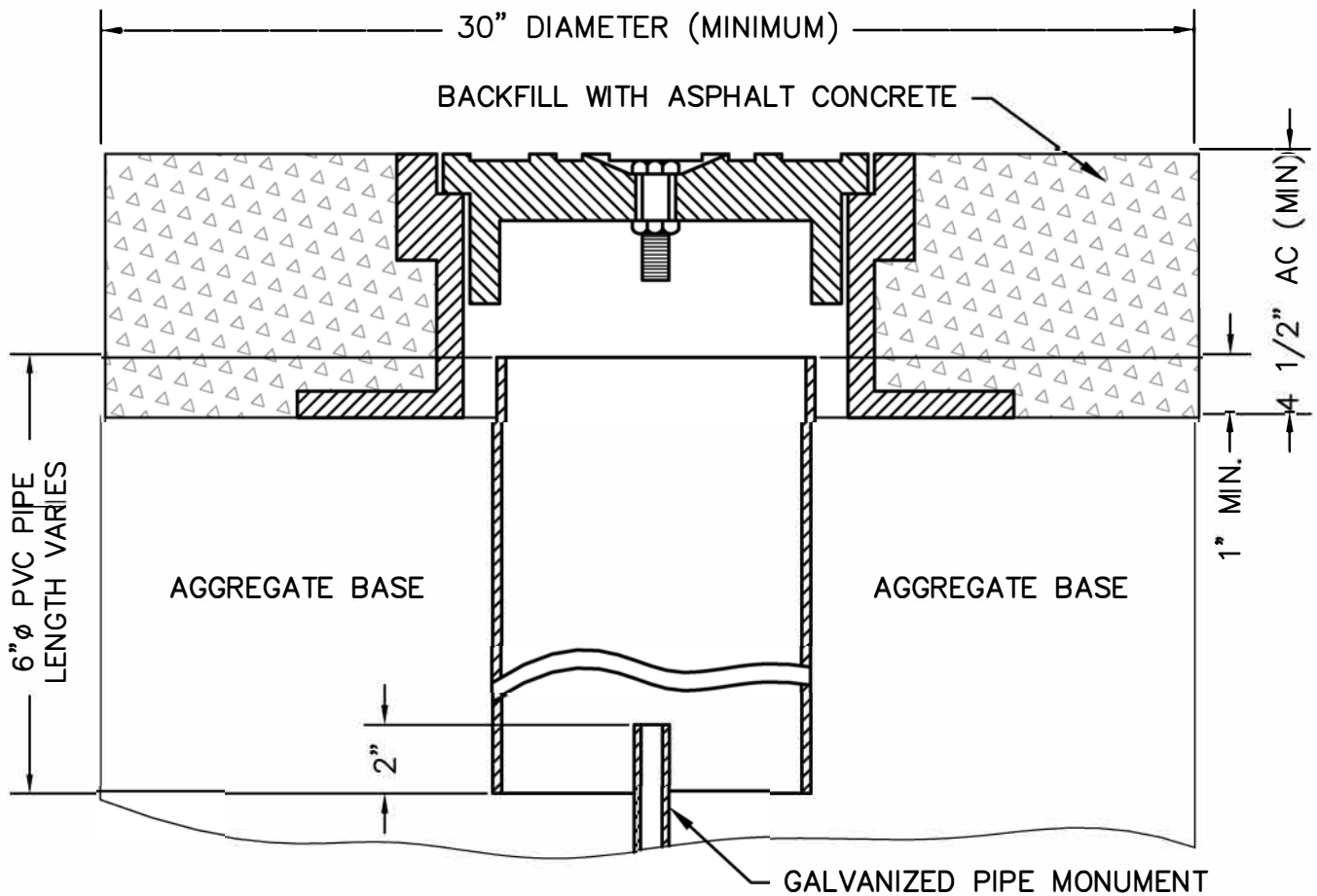
***COPPER VALLEY COMMUNITY
SERVICE DISTRICT***



**STANDARDS
AND
SPECIFICATIONS**

For Engineering Design, Traffic, Roads, Construction, and Administration:
1000 Saddle Creek Drive, Copperopolis, CA 95228
PHONE: (209) 785-0100

Visit us on the web:
www.coppervalleycsd.org

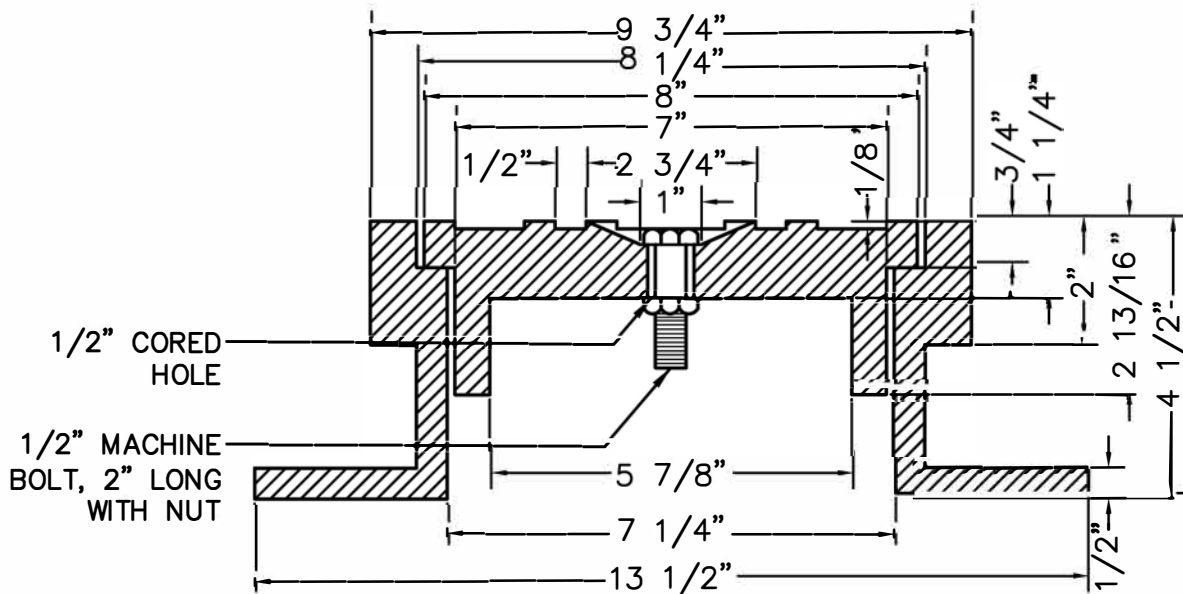
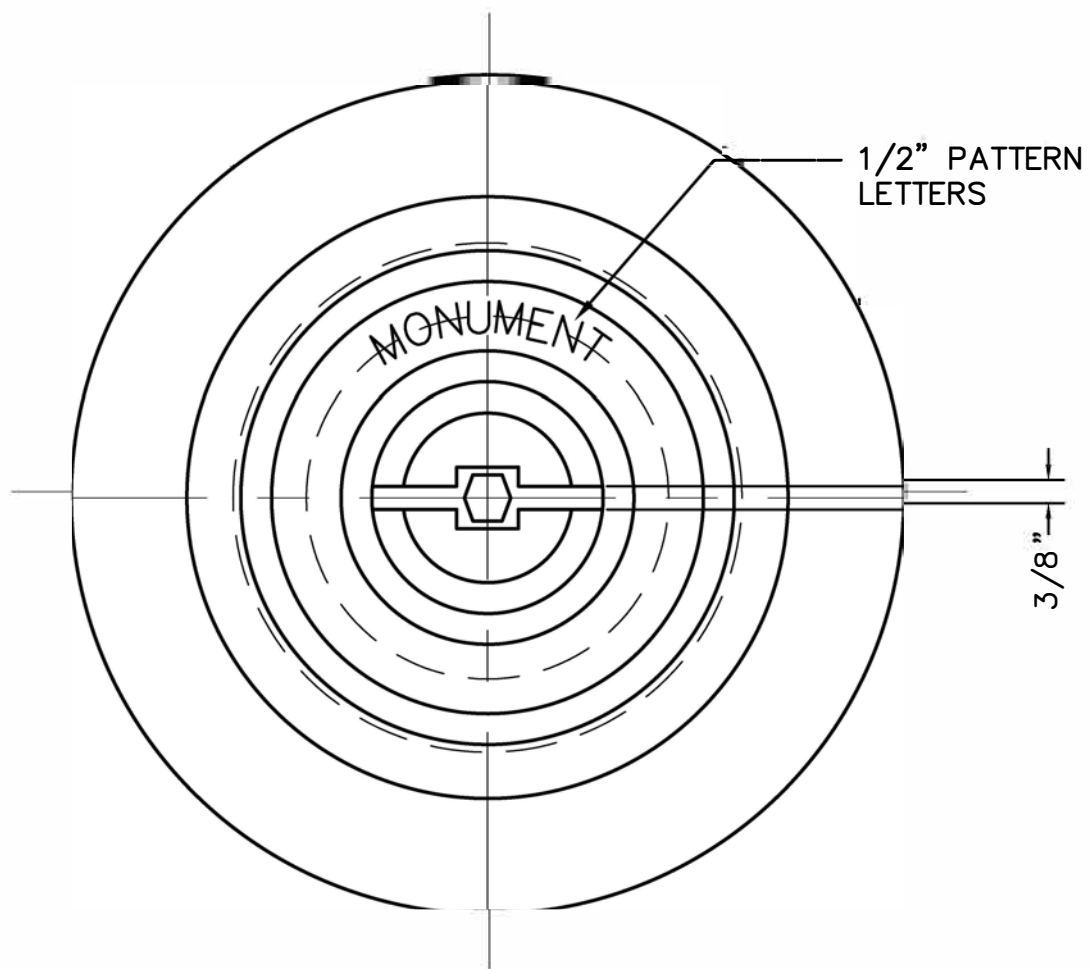


NOTES:

1. MONUMENT BOX SHALL RESEMBLE CAST IRON COVER IN PLATE 1-A2 OR APPROVED EQUAL.
2. MONUMENT COVER SHALL BE MARKED "MONUMENT".
3. THE MONUMENT SHALL BE A NEW 3/4 INCH X 24 INCH LONG GALVANIZED IRON PIPE.
4. THE MONUMENT SHALL BE TAGGED AND IDENTIFIED AS REQUIRED BY THE STATE OF CALIFORNIA LAND SURVEYOR'S ACT. REFER TO MANUAL OF INSTRUCTIONS FOR PLSS MOUNUMENTS.
5. ALL GOVERNMENT CORNERS SHALL BE 2 INCH X 24 INCH GALVANIZED IRON PIPE WITH IDENTIFICATION CAP. THE COUNTY WILL PROVIDE PIPE AND CAP UPON REQUEST.
6. MONUMENTS SHALL BE SET AT LEAST 1 FOOT BELOW THE FINISHED GRADE IN UNPAVED AREAS.



NO.	REVISED	BY	ROAD MONUMENT SHEET 1 OF 2	APPROVED BY:
				PETER KAMPA
				GENERAL MANAGER
				DATE: JUNE, 2020
UPDATED:	COPPER VALLEY COMMUNITY SERVICE DISTRICT		PLATE NO: 1-A1	
CHECKED BY:				



NO.	REVISED	BY

UPDATED BY: _____
 CHECKED BY: _____

ROAD MONUMENT SHEET
2 OF 2

COPPER VALLEY COMMUNITY
SERVICE DISTRICT

APPROVED BY: _____
 PETER KAMPA
 GENERAL MANAGER

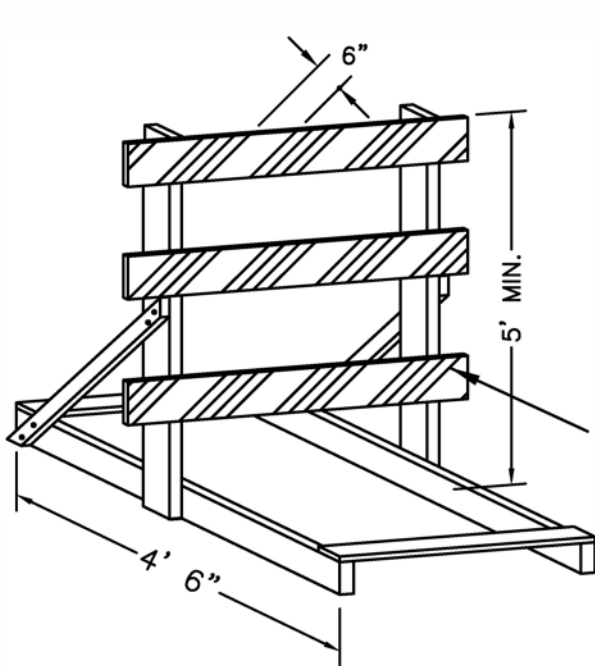
DATE: JUNE, 2020
 PLATE NO: **1-A2**

BARRICADE CHARACTERISTICS

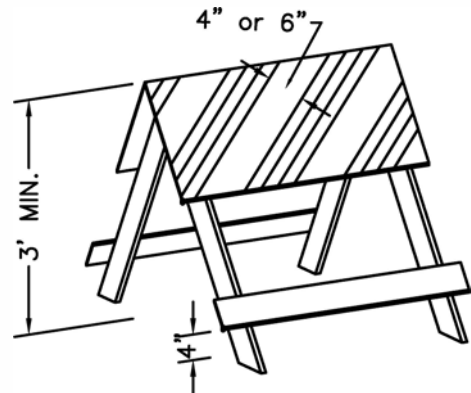
TYPE *	I	II	III
WIDTH OF RAIL *	8" MIN. – 12" MAX.		
LENGTH OF RAIL	2' MIN.		4' MIN.
WIDTH OF STRIPES**	6"		
HEIGHT	3' MIN.		5' MIN.
NUMBER OF REFLECTORIZED RAIL FACES PER SIDE	1	2	3

(*) FOR WOODEN BARRICADES NOMINAL LUMBER DIMENSIONS WILL BE SATISFACTORY.

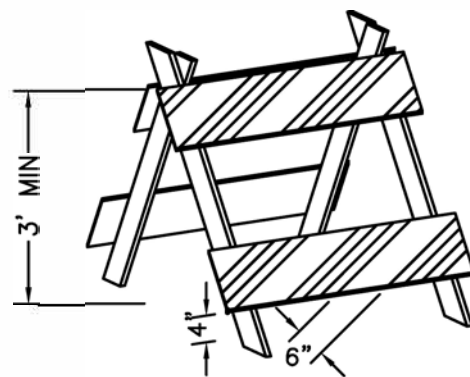
(**) FOR RAILS LESS THAN 3 FEET LONG, 4 INCH WIDE STRIPES SHALL BE USED.



TYPE III



TYPE I



TYPE II

TRAFFIC CONTROL AND SAFETY



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

**PROTECTIVE BARRICADE
SHEET 1 OF 2**

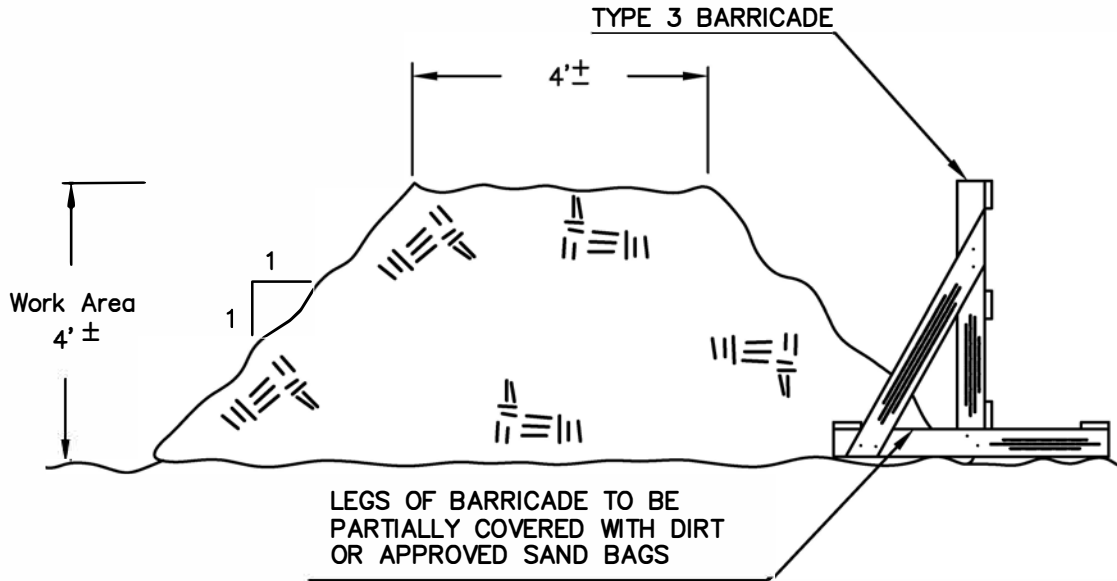
**COPPER VALLEY COMMUNITY
SERVICE DISTRICT**

APPROVED BY:

PETER KAMPA
GENERAL MANAGER

DATE: JUNE, 2020

PLATE NO: **2-A 1**



SCALE: NONE

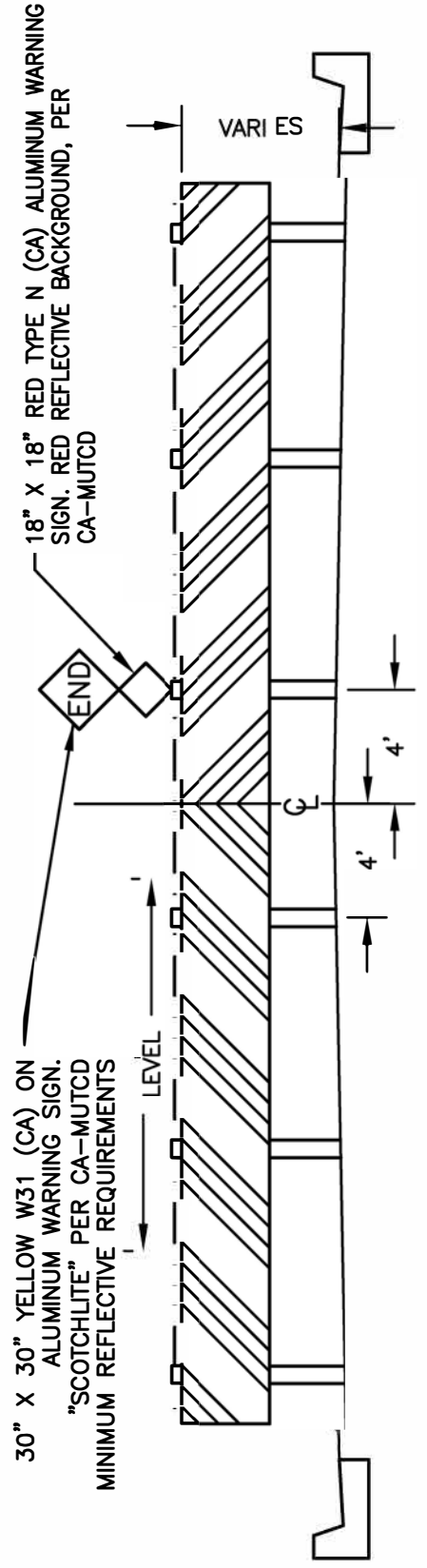
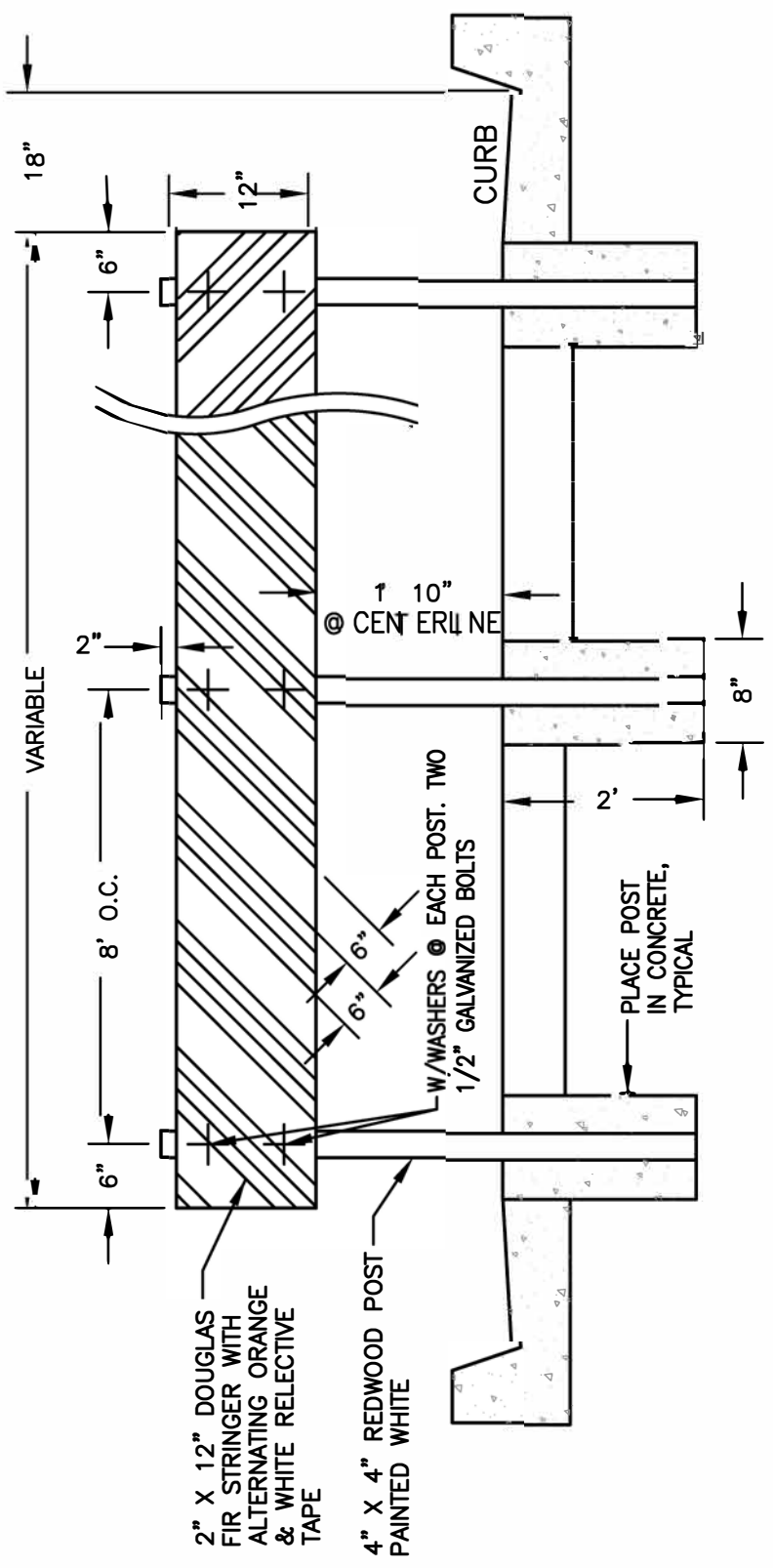
NOTES:

1. THE DEVELOPER SHALL CONSTRUCT AND MAINTAIN PROTECTIVE BARRICADES AT THE LOCATIONS SHOWN ON THE DETOUR PLAN APPROVED BY THE COUNTY.
2. AT A MINIMUM, EACH CLOSURE SHALL CONSIST OF THREE TYPE 3 BARRICADES, A RED TYPE N (CA) SIGN, TWO R11-2 (CA) SIGNS (BLACK ON WHITE. 48 INCH X 30 INCH, 8 INCH SERIES "D" LETTERS) PER CA MUTCD, AND FILL MATERIAL.
3. THE DEVELOPER SHALL SUBMIT TO THE ENGINEER PLANS FOR THE PROTECTIVE BARRICADE. PLACEMENT OF THE FILL MATERIAL AND TYPE 3 BARRICADES SHALL NOT BEGIN UNTIL THE DEVELOPER RECEIVES AN ENCROACHMENT PERMIT FROM THE DISTRICT.

TEMPORARY BARRICADE AT ROAD END



NO.	REVISED	BY	PROTECTIVE BARRICADE SHEET 2 OF 2	APPROVED BY:	
					PETER KAMPA GENERAL MANAGER
					DATE: JUNE, 2020
UPDATED BY:			COPPER VALLEY COMMUNITY SERVICE DISTRICT	PLATE NO: 2-A2	
CHECKED BY:					



2" X 12" DOUGLAS
FIR STRINGER WITH
ALTERNATING ORANGE
& WHITE REFLECTIVE
TAPE

4" X 4" REDWOOD POST
PAINTED WHITE

W/WASHERS @ EACH POST. TWO
1/2" GALVANIZED BOLTS

PLACE POST
IN CONCRETE,
TYPICAL

18" X 18" RED TYPE N (CA) ALUMINUM WARNING
SIGN. RED REFLECTIVE BACKGROUND, PER
CA-MUTCD

30" X 30" YELLOW W31 (CA) ON
ALUMINUM WARNING SIGN.
"SCOTCHLITE" PER CA-MUTCD
MINIMUM REFLECTIVE REQUIREMENTS



NO.	REVISED	DATE	BY

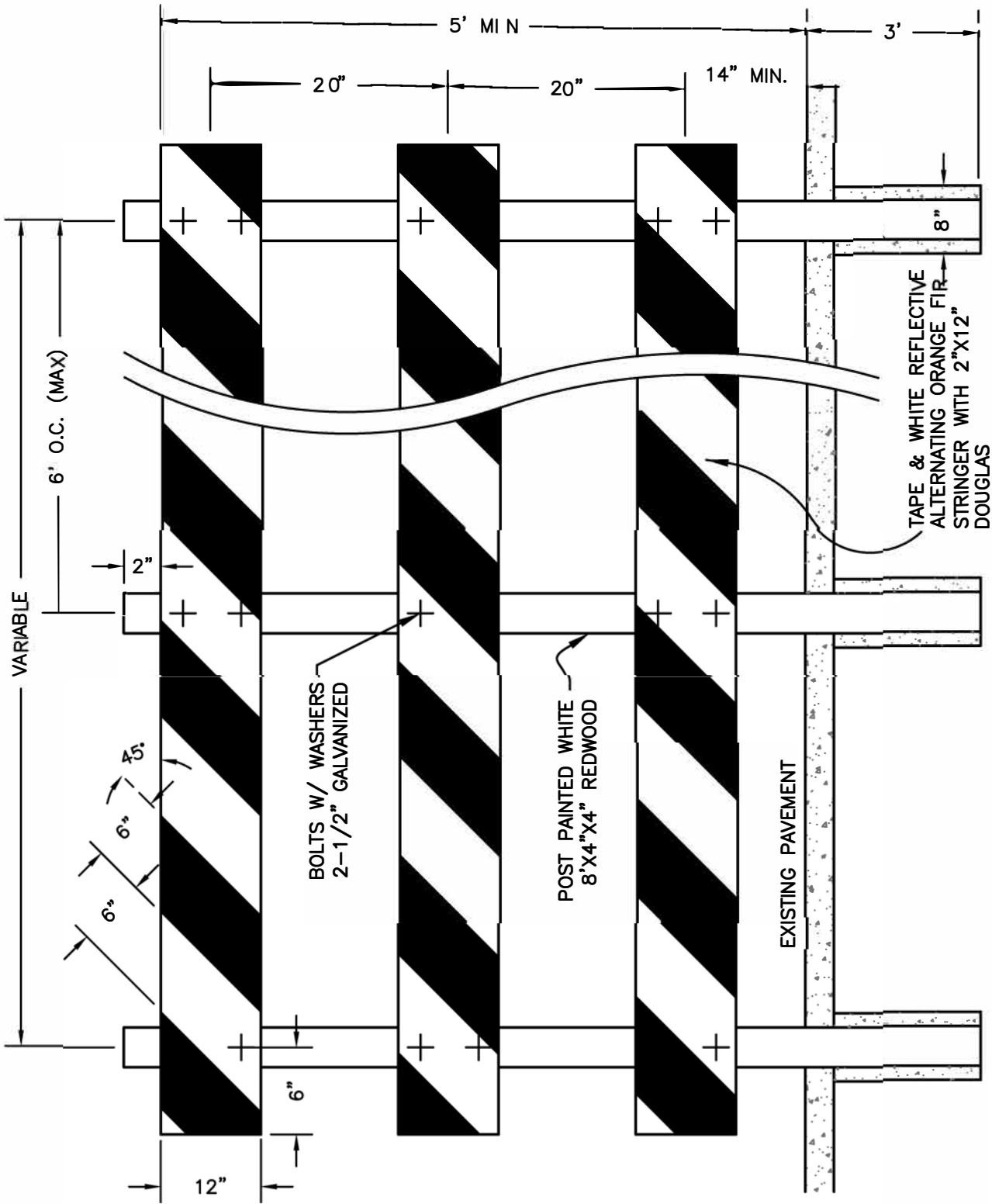
UPDATED BY: _____

CHECKED BY: _____

**BARRICADE DEAD END ROAD
SHEET 1 OF 2**

**COPPER VALLEY COMMUNITY
SERVICE DISTRICT**

APPROVED BY:	
PETER KAMPA GENERAL MANAGER	
DATE: JUNE, 2020	
PLATE NO: 2-A3	



NOTE:
DIRECTED OTHERWISE
BARRICADE UNLESS USE
SINGLE BOARD



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

**BARRICADE DEAD END ROAD
SHEET 2 OF 2**

**COPPER VALLEY COMMUNITY
SERVICE DISTRICT**

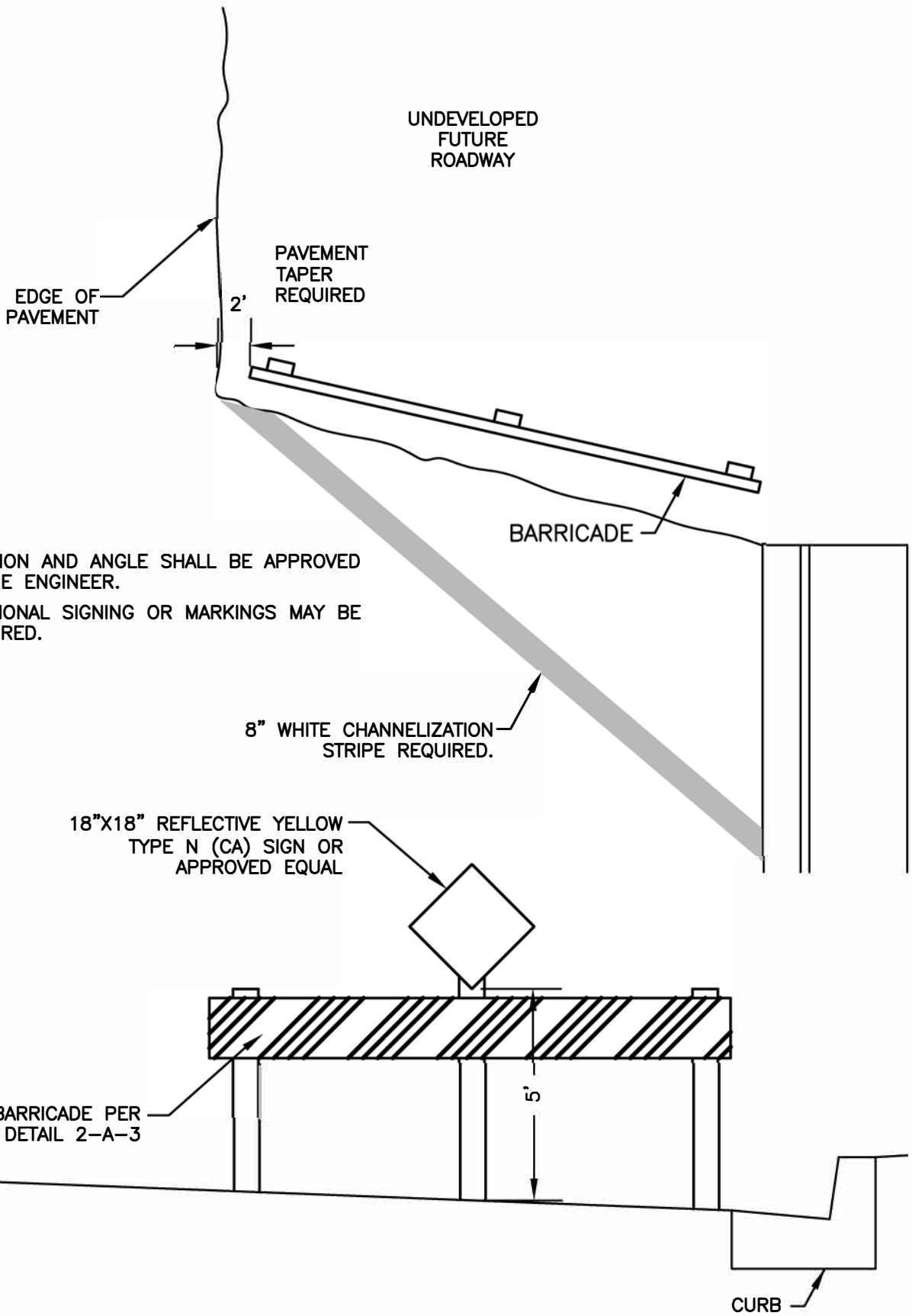
APPROVED BY:

PETER KAMPA,
GENERAL MANAGER

DATE: JUNE, 2020

PLATE NO: **2-A4**

10



NOTES:

1. LOCATION AND ANGLE SHALL BE APPROVED BY THE ENGINEER.
2. ADDITIONAL SIGNING OR MARKINGS MAY BE REQUIRED.

18"X18" REFLECTIVE YELLOW TYPE N (CA) SIGN OR APPROVED EQUAL

BARRICADE PER DETAIL 2-A-3

CURB



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

BARRICADE ROAD WIDTH TRANSITION

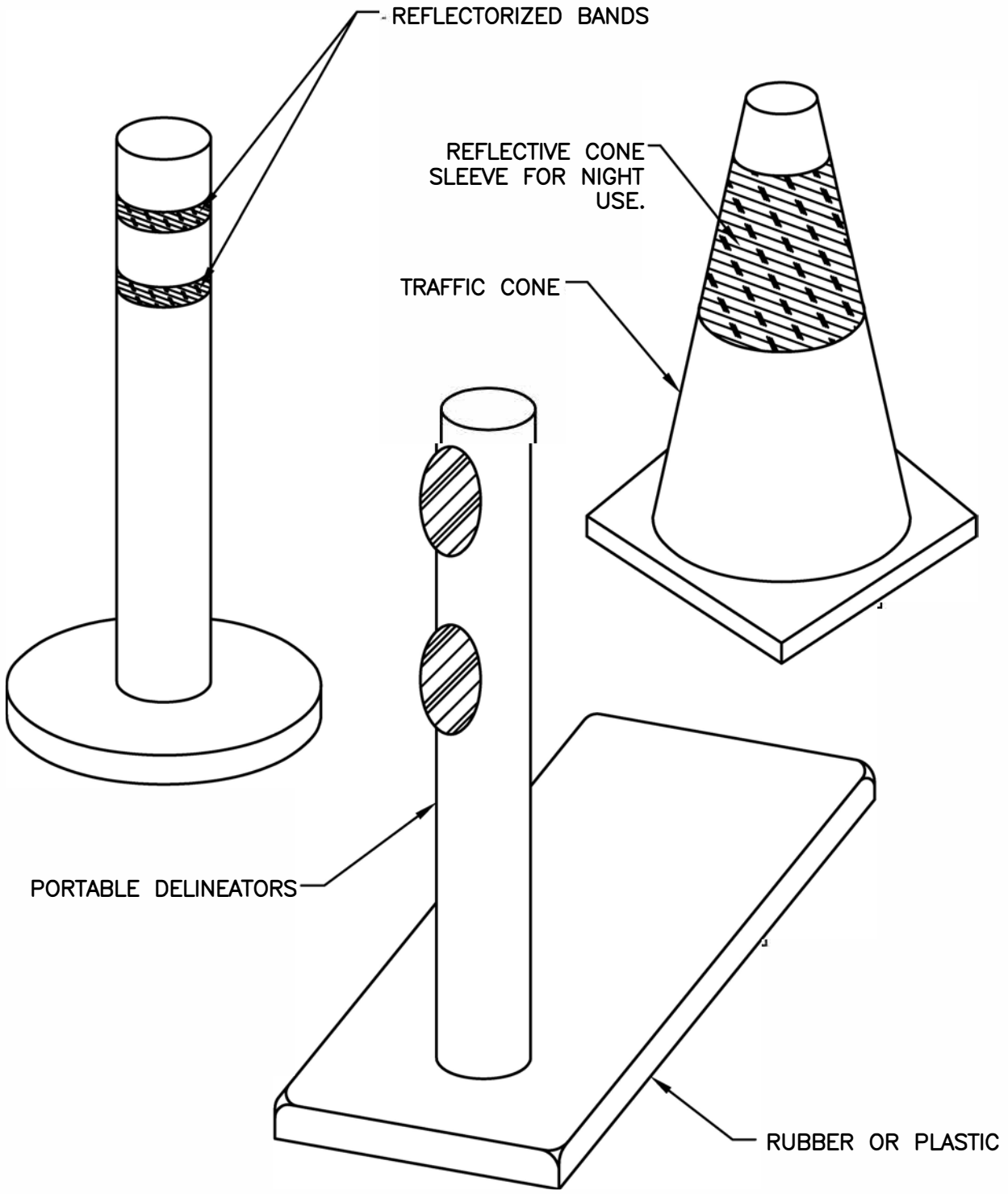
COPPER VALLEY COMMUNITY SERVICE DISTRICT

APPROVED BY:

PETER KAMPA
GENERAL MANAGER

DATE: JUNE, 2020

PLATE NO: **2-A5**



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

TRAFFIC CONTROL DELINEATORS

COPPER VALLEY COMMUNITY SERVICE DISTRICT

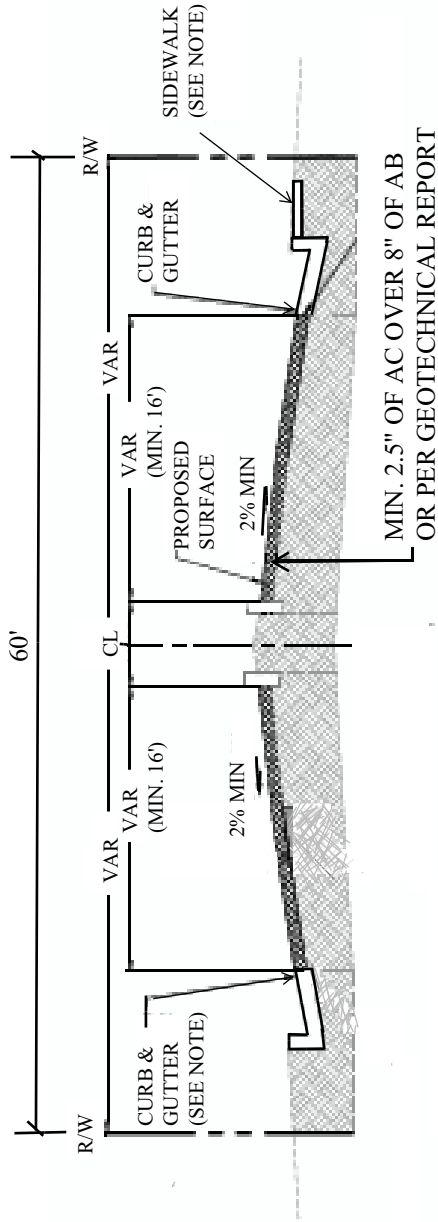
APPROVED BY:

PETER KAMPA,
GENERAL MANAGER

DATE: JUNE, 2020

PLATE NO: 2-B1

MINOR COLLECTOR



TYPICAL SECTION

NOTE:

1. SIDEWALK SLOPE = 1/4" PER FOOT MAX BETWEEN BACK OF CURB AND RIGHT-OF-WAY.
2. PAVEMENT CROSS SLOPE SHALL BE 2.0% MINIMUM ON NEW ROAD CONSTRUCTION.
3. INSTALL CONCRETE CURB PER PLATE 3-D1.
4. INSTALL CONCRETE SIDEWALK PER PLATE 3-D5.

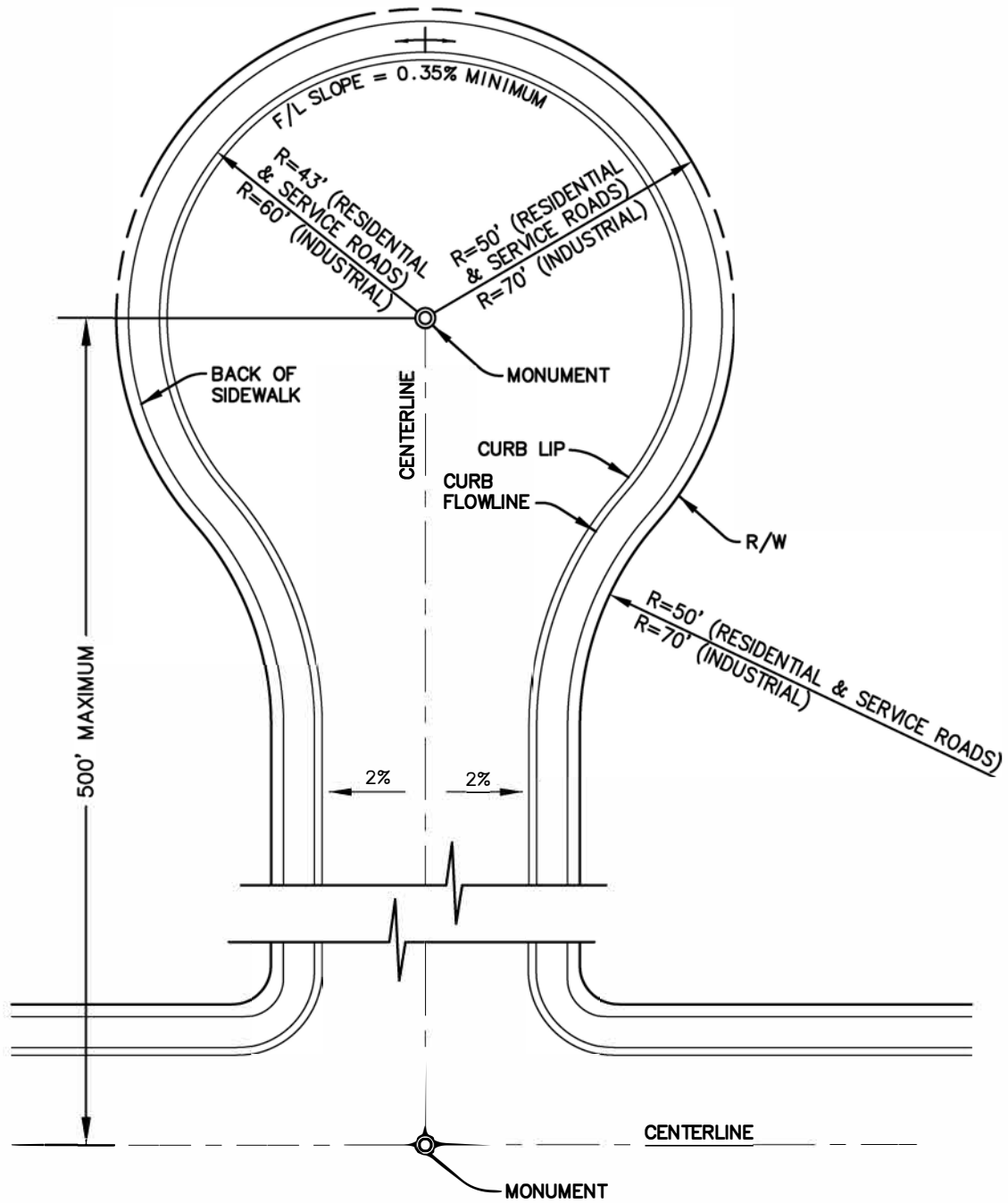


Revised	
UPDATED BY:	
CHECKED BY:	

MINOR COLLECTOR

COPPER VALLEY COMMUNITY
SERVICE DISTRICT

APPROVED BY:	
PETER KAMPA, GENERAL MANAGER	
DATE: JUNE, 2020	
PLATE NO: 3-A2	



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

CUL-DE-SAC

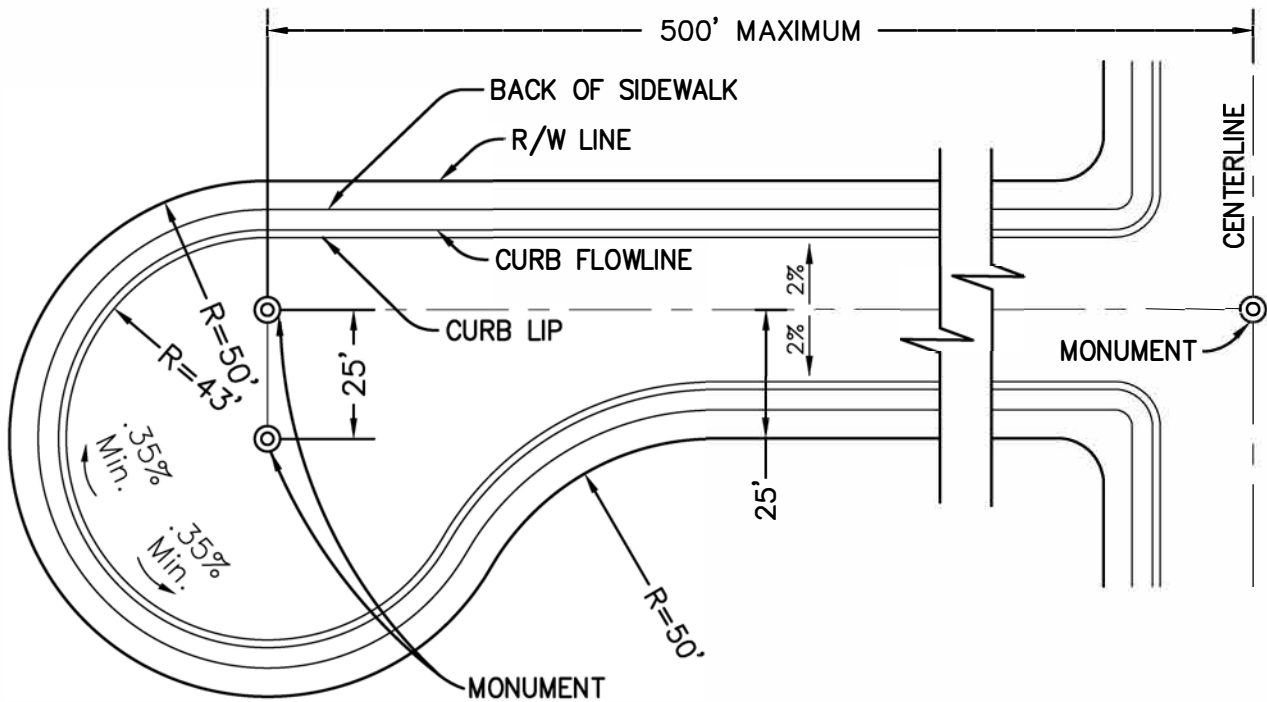
 COPPER VALLEY COMMUNITY
 SERVICE DISTRICT

APPROVED BY:

 PETER KAMPA,
 GENERAL MANAGER

 DATE: JUNE, 2020

 PLATE NO: 3-B1



CUL-DE-SAC 50' RESIDENTIAL STREET (SEE DETAIL 3-A1)



NO.	REVISED	BY

UPDATED BY:
CHECKED BY:

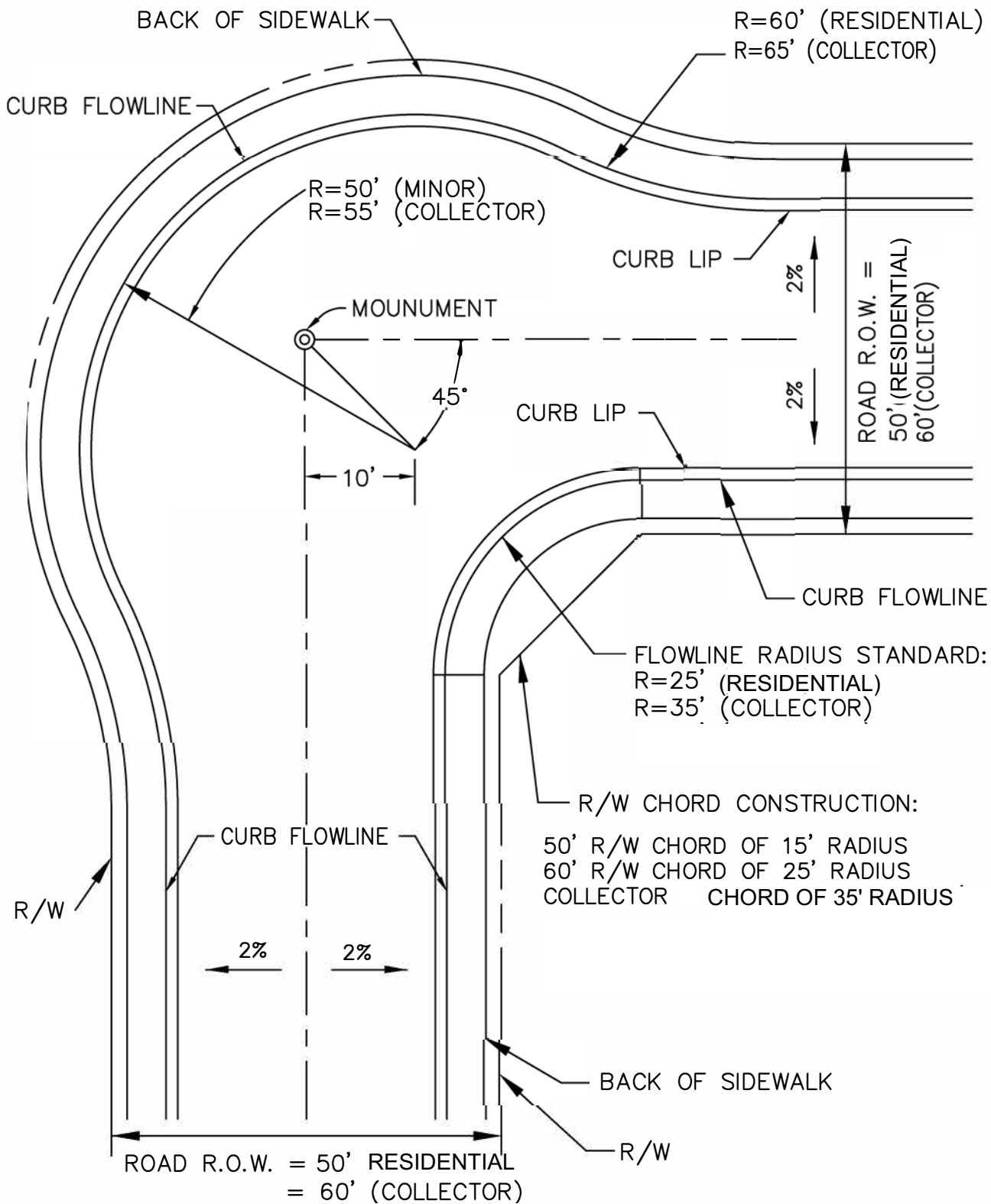
OFFSET
CUL-DE-SAC

COPPER VALLEY COMMUNITY SERVICE DISTRICT

APPROVED BY:
PETER KAMPA
GENERAL MANAGER

DATE: JUNE, 2020

PLATE NO: 3-B2



NO.	REVISED	BY

KNUCKLE

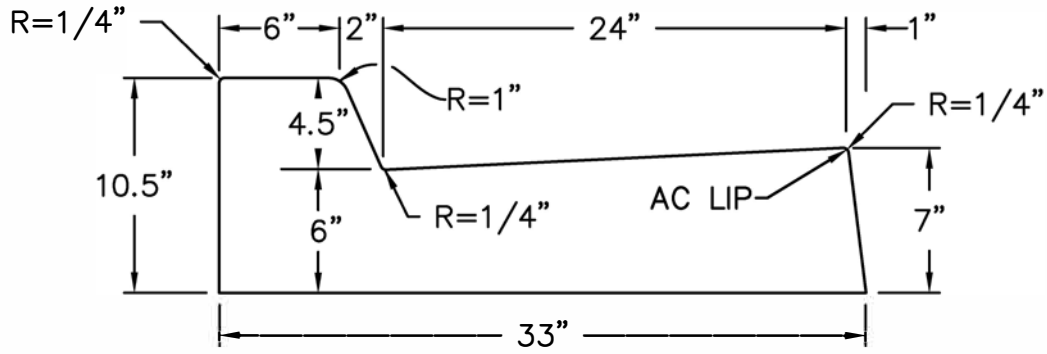
APPROVED BY:

PETER KAMPA
GENERAL MANAGER

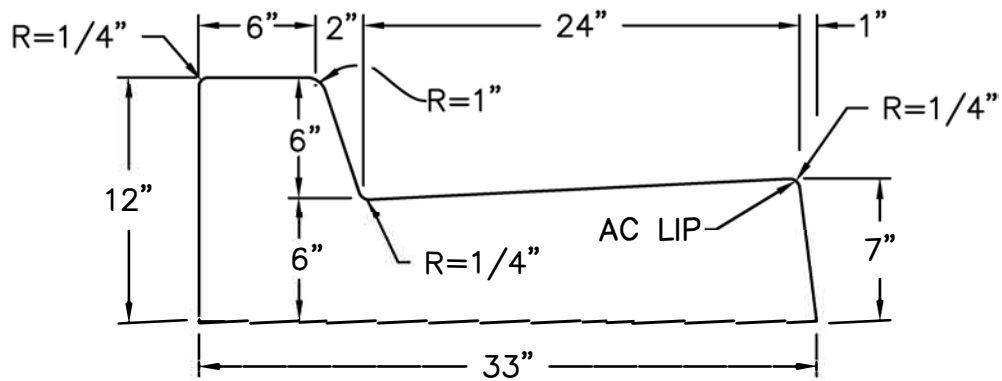
UPDATED BY:
CHECKED BY:

COPPER VALLEY COMMUNITY SERVICE DISTRICT

DATE: JUNE, 2020
PLATE NO: 3-C1



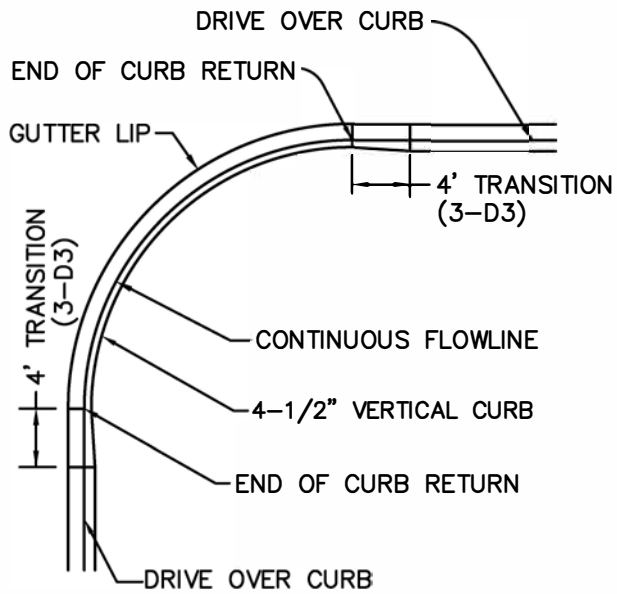
4-1/2" VERTICAL FACE
ADJACENT TO MID-BLOCK CURB INLETS
AND AT DRIVE-OVER/DRIVE-OVER RETURNS



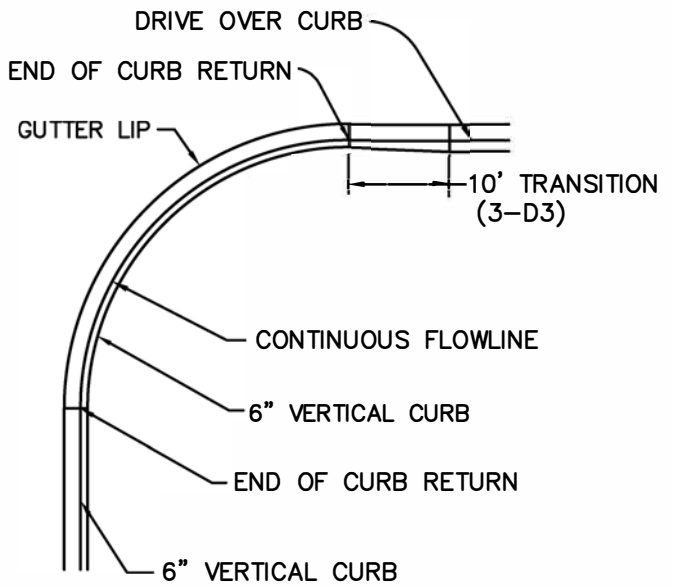
6" VERTICAL FACE



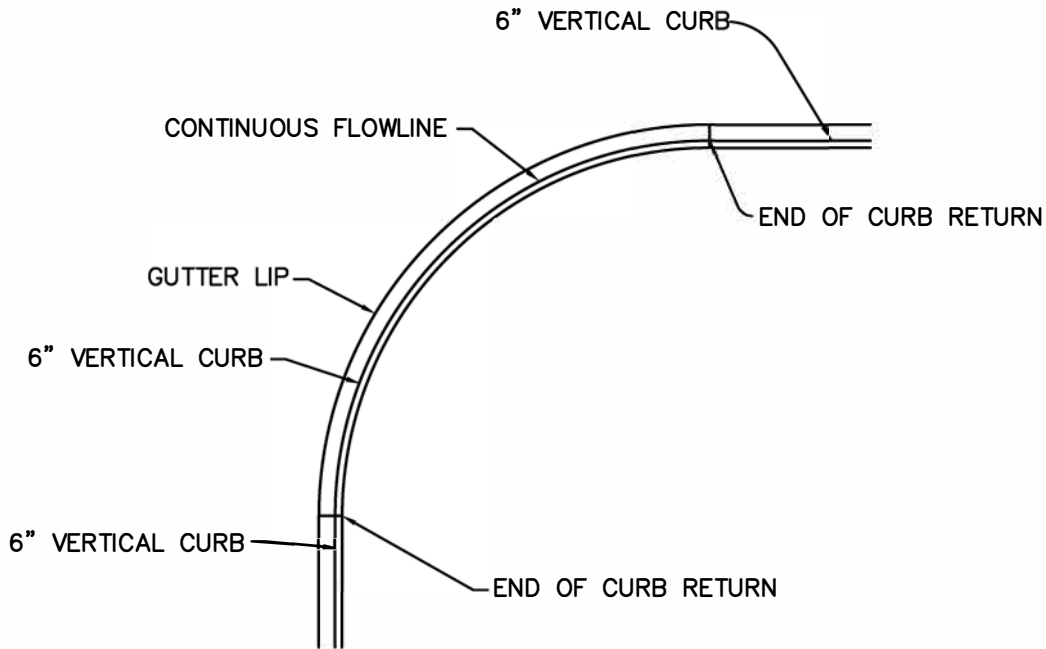
NO.	REVISED	BY	CURB & GUTTER STANDARDS	APPROVED BY:
				PETER KAMPA
				GENERAL MANAGER
UPDATED BY:			COPPER VALLEY COMMUNITY SERVICE DISTRICT	DATE: JUNE, 2020
CHECKED BY:				PLATE NO: 3-D1



DRIVE OVER TO DRIVE OVER CURB



VERTICAL TO DRIVE OVER CURB



VERTICAL TO VERTICAL CURB



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

**CURB RETURN
DETAILS**

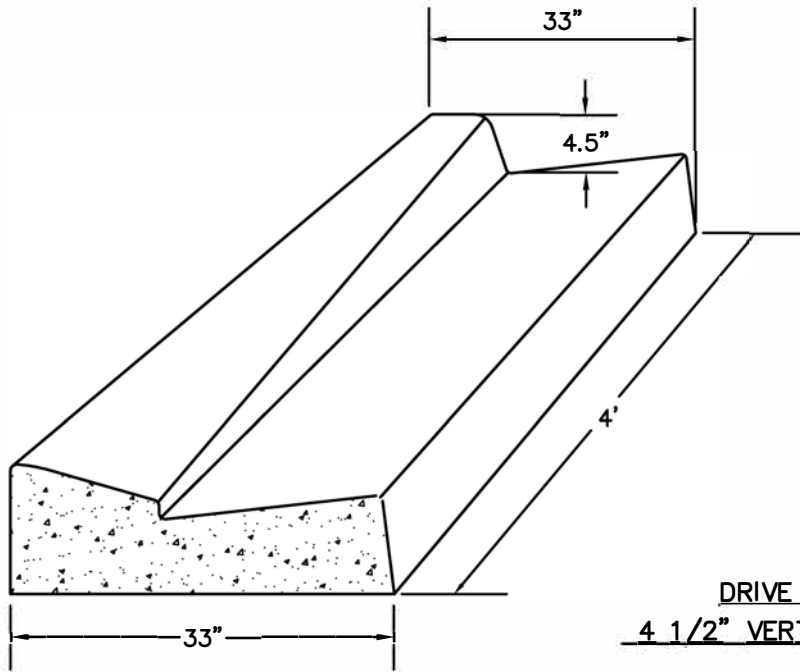
COPPER VALLEY COMMUNITY SERVICE DISTRICT

APPROVED BY:

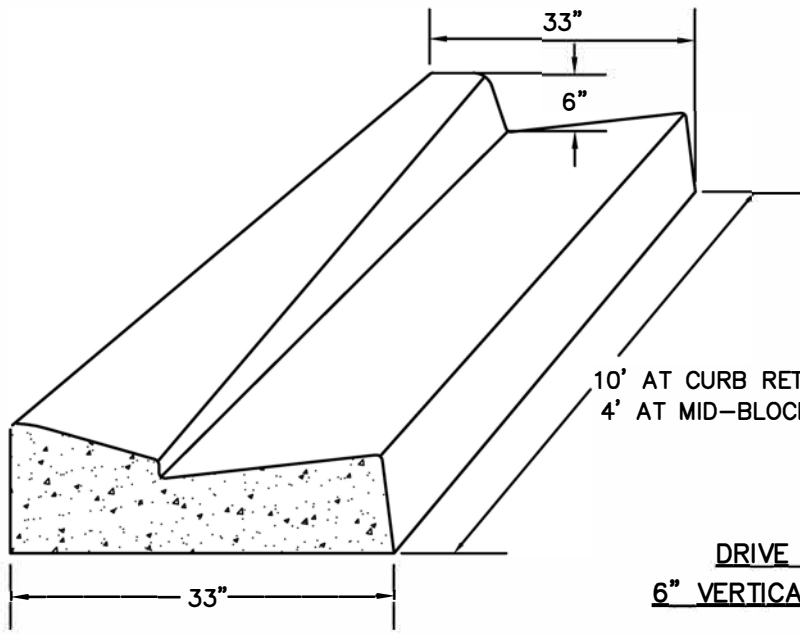
PETER KAMPA
GENERAL MANAGER

DATE: JUNE, 2020

PLATE NO: 3-D2



DRIVE OVER CURB TO
4 1/2" VERTICAL CURB TRANSITION



10' AT CURB RETURNS
4' AT MID-BLOCK CATCH BASINS

DRIVE OVER CURB TO
6" VERTICAL CURB TRANSITION



No.	Revised	By

UPDATED BY: _____

CHECKED BY: _____

**CURB & GUTTER
TRANSITION**

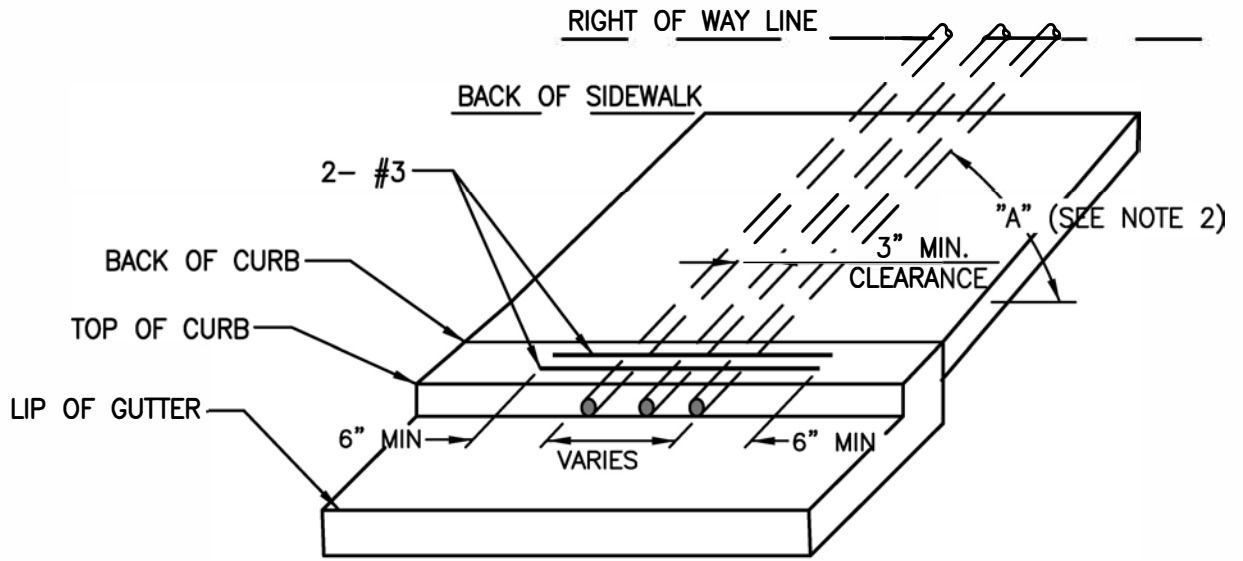
**COPPER VALLEY COMMUNITY
SERVICE DISTRICT**

Approved by:

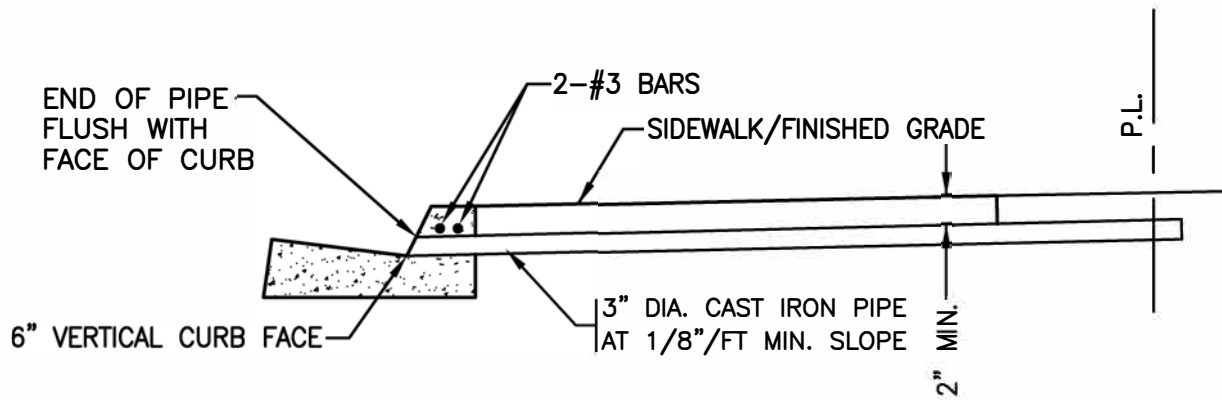
Peter Kampa
General Manager

Date: JUNE, 2020

PLATE NO: 3-D3



ISOMETRIC



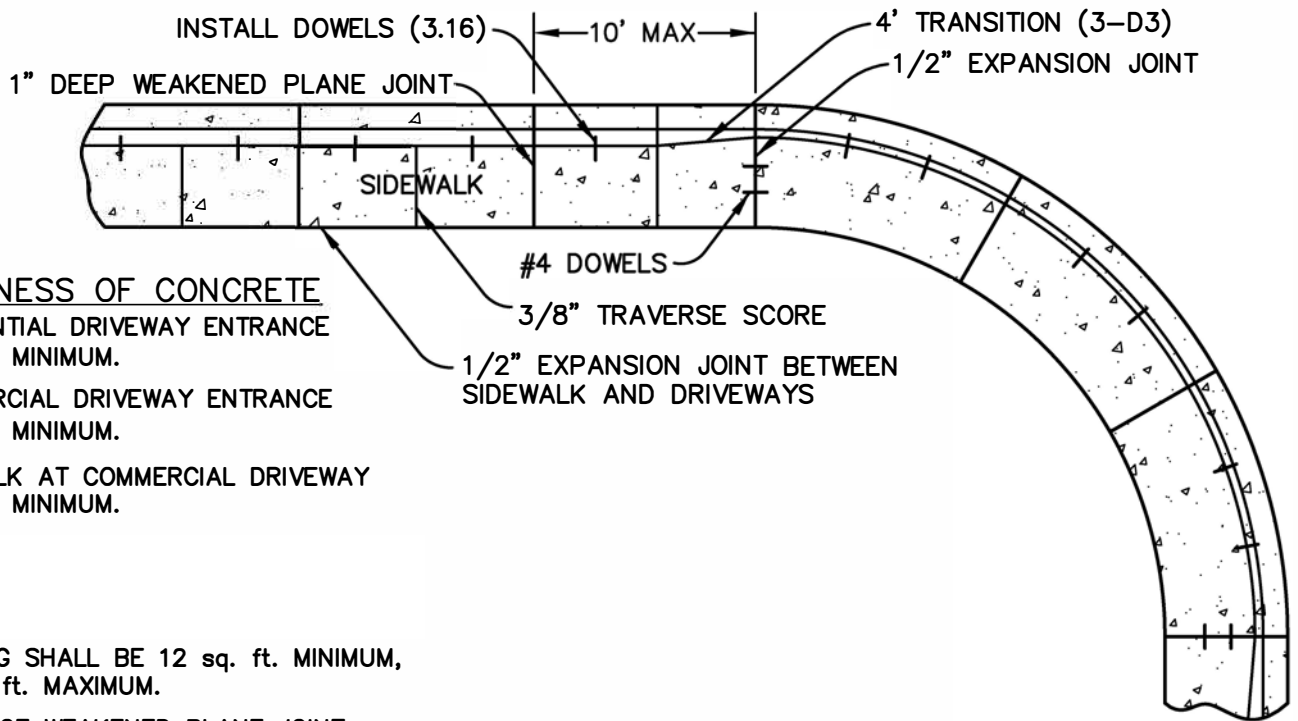
SECTION

NOTES:

1. ANGLE "A" = 90 DEGREES WITH CURB, UNLESS APPROVED OTHERWISE.
2. THE NUMBER OF PIPES AT ANY LOCATION SHALL NOT EXCEED 4.



NO.	REVISED	BY	CURB DRAIN	APPROVED BY:
				Peter Kampa General Manager
UPDATED BY:				DATE: JUNE 2020
CHECKED BY:				Plate No. D4
COPPER VALLEY COMMUNITY SERVICE DISTRICT				



THICKNESS OF CONCRETE
 RESIDENTIAL DRIVEWAY ENTRANCE
 5-1/2" MINIMUM.

COMMERCIAL DRIVEWAY ENTRANCE
 7-1/2" MINIMUM.

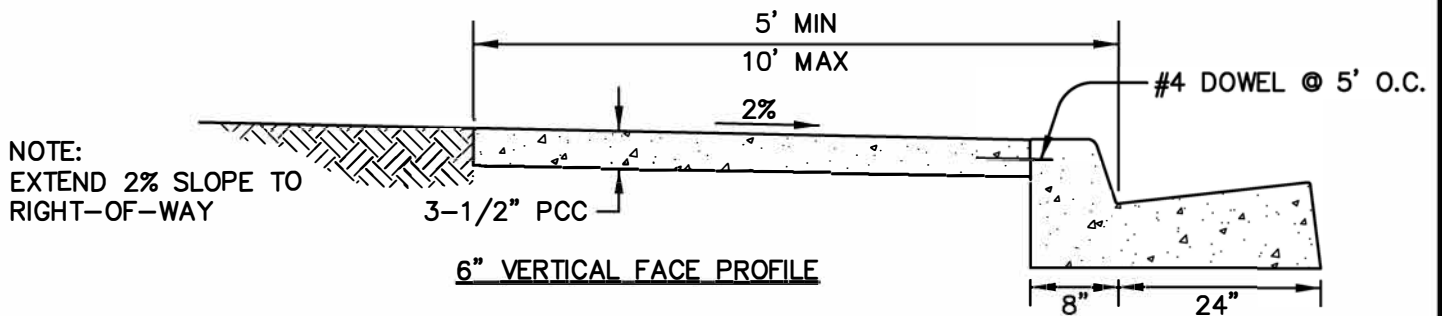
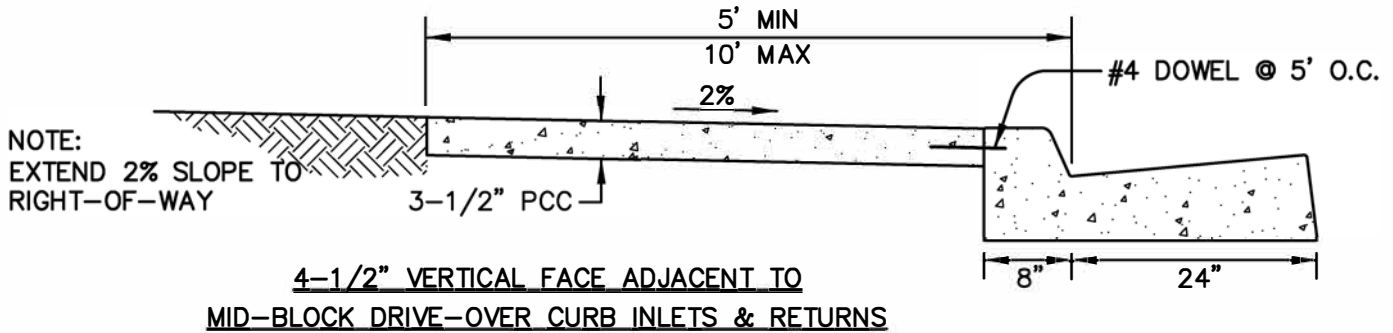
SIDEWALK AT COMMERCIAL DRIVEWAY
 5-1/2" MINIMUM.

1/2" EXPANSION JOINT BETWEEN
 SIDEWALK AND DRIVEWAYS

SCORING SHALL BE 12 sq. ft. MINIMUM,
 20 sq. ft. MAXIMUM.

DEPTH OF WEAKENED PLANE JOINT
 SHALL BE THE THICKNESS OF CONCRETE SECTION.

PCC = PORTLAND CEMENT CONCRETE



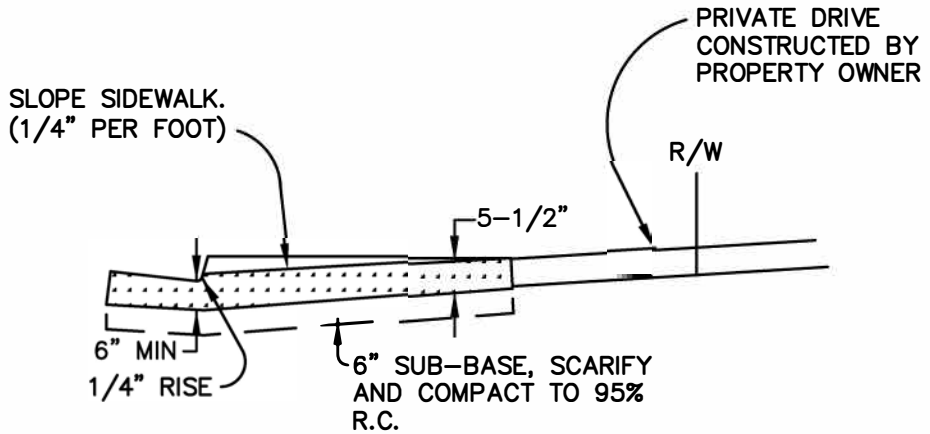
NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

SIDEWALK STANDARDS

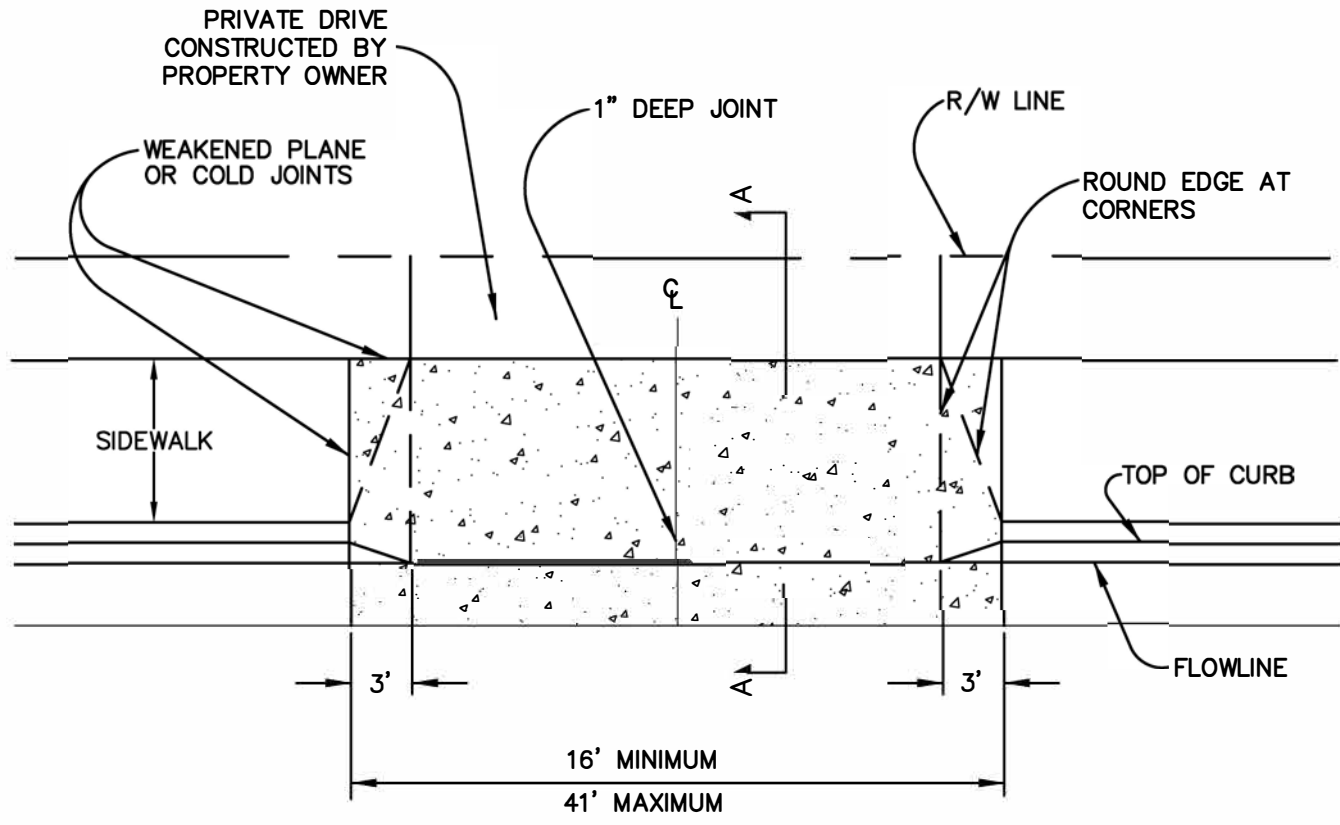
COPPER VALLEY COMMUNITY
 SERVICE DISTRICT

APPROVED BY:
 Peter Kampa
 General Manager

DATE: JUNE, 2020
 PLATE NO: **3-D5**



SECTION A-A



NOTES:

1. UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SAND.
2. NON-MONOLITHIC DRIVE APPROACHES MAY BE CONSTRUCTED WHERE DEPRESSED CURB EXISTS OR WHERE CURB IS PLACED WITH A SLIP FORM MACHINE. DOWELS OR KEY SHALL BE USED IF NON-MONOLITHIC.
3. RESIDENTIAL DRIVEWAYS SHALL BE PLACED A MINIMUM OF 10 FEET FROM CURB RETURNS.



NO.	REVISED	BY

UPDATED BY: _____

CHECKED BY: _____

**RESIDENTIAL DRIVEWAY
APPROACH**

COPPER VALLEY COMMUNITY SERVICE
DISTRICT

APPROVED BY: _____

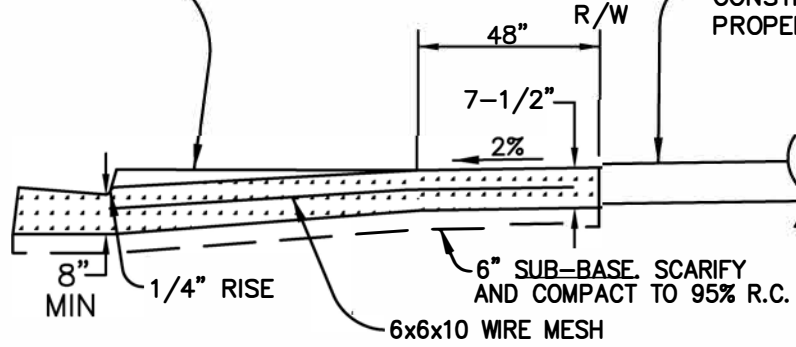
Peter Kampa
General Manager

DATE: JUNE, 2020

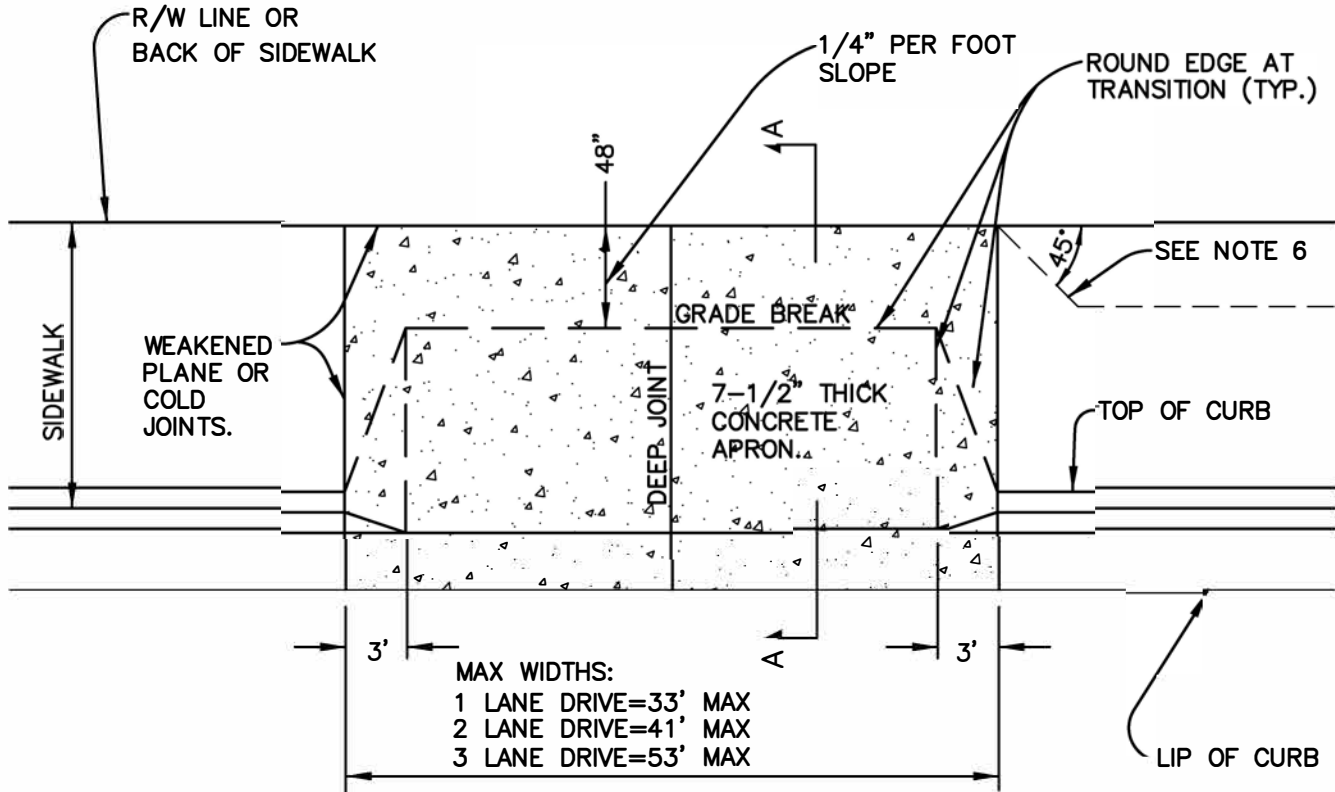
PLATE NO: 3-F1

SLOPE FROM PROPERTY LINE
(1/4" PER FOOT)

PRIVATE DRIVE
CONSTRUCTED BY
PROPERTY OWNER



SECTION A-A



NOTES:

1. 6X6X10 WIRE MESH REQUIRED.
2. UNSUITABLE SOIL SHALL BE REMOVED AND REPLACED WITH SAND THROUGHOUT PROJECT, EXCEPT AS STATED IN NOTE 4
3. NON-MONOLITHIC DRIVE APPROACHES MAY BE CONSTRUCTED WHERE DEPRESSED CURB EXISTS OR WHERE CURB IS PLACED WITH A SLIP FORM MACHINE. DOWELS OR KEYS SHALL BE USED WHERE NON-MONOLITHIC.
4. COMMERCIAL DRIVEWAYS THAT ACCOMMODATE TRUCK TRAFFIC SHALL HAVE #4 BEBAR INSTALLED 12" O.C. IN BOTH DIRECTIONS
5. COMMERCIAL DRIVEWAYS ON COLLECTOR ROADS SHALL BE CONSTRUCTED IN ACCORDANCE TO PLATE 3-G3.
6. PROVIDE TRANSITION FOR SIDEWALKS THAT ARE LESS THAN FULL WIDTH.



NO.	REVISED	BY
UPDATED BY:		
CHECKED BY:		

**COMMERCIAL DRIVEWAY
APPROACH**

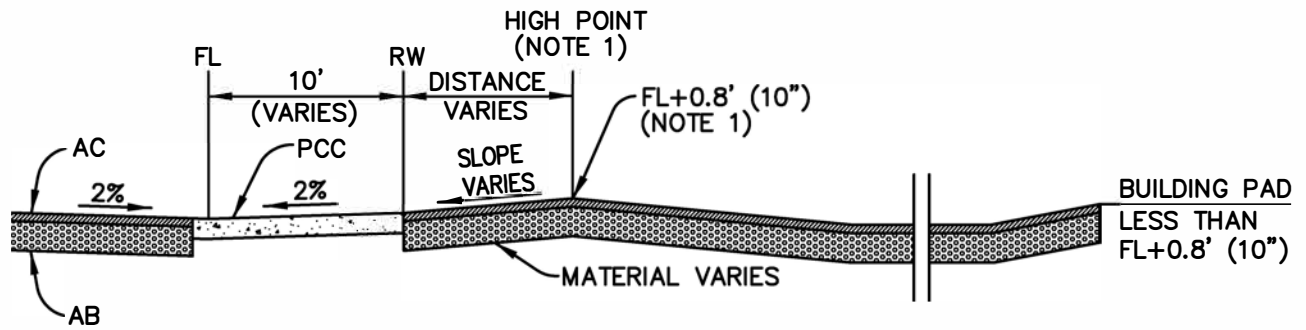
COPPER VALLEY COMMUNITY
SERVICE DISTRICT

APPROVED BY:

Peter Kampa
General Manager

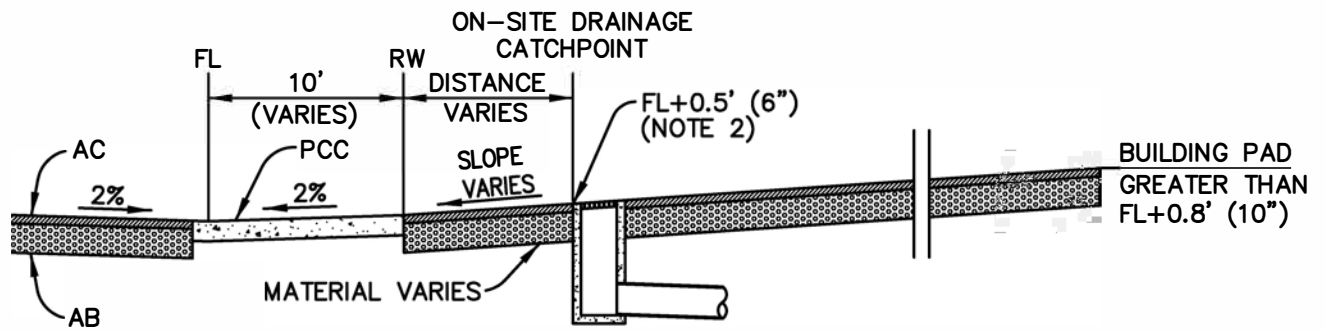
DATE: JUNE, 2020

PLATE NO: 3-F2



SECTION A-A

DROP APPROACH - CASE 1



SECTION A-A

DROP APPROACH - CASE 2

NOTES:

CASE 1 - LOT/PAD ELEVATION EQUAL TO OR LESS THAN TEN (10) INCHES (0.8') ABOVE FLOWLINE.

CASE 2 - LOT/PAD ELEVATION GREATER THAN TEN (10) INCHES (0.8') ABOVE FLOWLINE.

NOTE 1 - HIGH POINT ESTABLISHED AT 0.8' ABOVE FLOWLINE TO CONTROL STREET FLOODING AND LOT FLOODING. COUNTY ENGINEER MAY LOWER STANDARD IN POSITIVE DRAINAGE AREAS.

NOTE 2 - CATCH POINT FOR ON-SITE DRAINAGE AT A MINIMUM OF 0.5' ABOVE FLOWLINE TO CONTROL ON AND OFFSITE FLOODING. COUNTY ENGINEER MAY LOWER STANDARDS IN POSITIVE DRAIN AREAS.



DROP CURB APPROACH
PROFILE VIEW

COPPER VALLEY COMMUNITY SERVICE DISTRICT

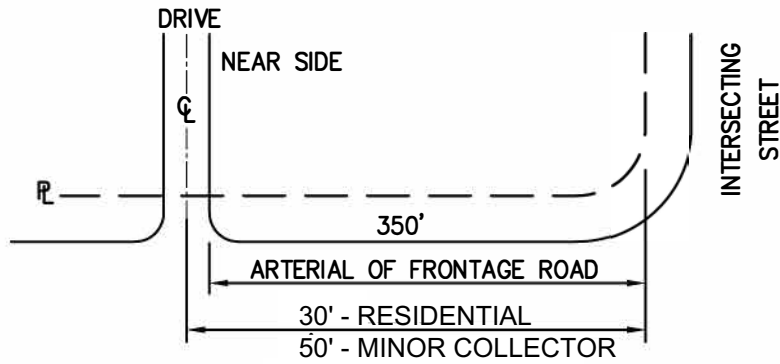
Date: JUNE 2020

Approved by:

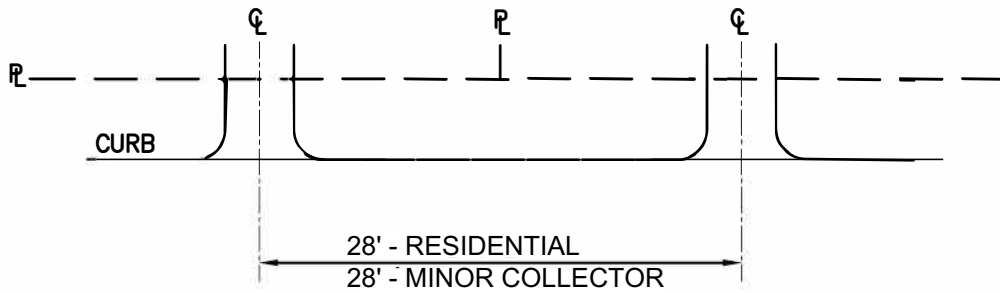
Peter Kampa, General Manager

No.	Revision	Description	Date

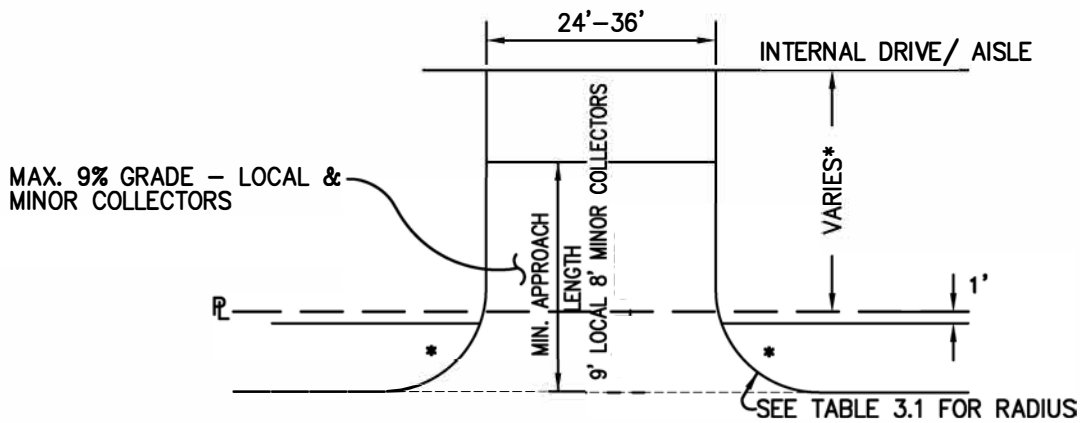
Std. Dwg. No. 3-F4



MINIMUM DISTANCE FROM INTERSECTION



MINIMUM SPACING



- * HANDICAP RAMP-WARP TO FIT MAX. SLOPE 12:1
- * SEE TABLE 3.2

TYPICAL DESIGN

NOTE:

TYPICAL RESIDENTIAL DRIVEWAY SHALL BE DRIVEOVER CURB. RESIDENTIAL PROPERTIES FACING ON COLLECTORS SHALL BE DRIVEOVER CURB OR FLARED DRIVEWAYS. RESIDENTS ON MAJOR STREET FACILITIES SHALL BE DROP APPROACH OR FLARED DRIVEWAYS.



RESIDENTIAL DRIVEWAYS

COPPER VALLEY COMMUNITY SERVICE DISTRICT

Date: JUNE 2020

Approved by:

Peter Kampa, General Manager

No.	Revision	Description	Date

Std. Dwg. No. **3-G1**