


Agenda Report Reviewed by:
City Manager: 

**CITY OF SEBASTOPOL
CITY COUNCIL
AGENDA ITEM**

Meeting Date: September 7, 2021
 To: Honorable Mayor and Honorable City Councilmembers
 From: Toni Bertolero, Engineering Consultant
 Subject: Street Standard Details
 Recommendation: Adoption of Street Standards
 Funding: Currently Budgeted: _____ Yes _____ No X N/A

Account Code/Costs authorized in City Approved Budget (if applicable) AK (verified by Administrative Services Department)

INTRODUCTION/PURPOSE:

The item is to request Council adoption of the City’s Street Standard Details and Specifications, commonly referred to as Street Standards.

BACKGROUND:

The City has standard details and specifications for construction of public improvements such as for streets, water, sewer and storm drain facilities. To provide minimum standards and best engineering practices for construction by private developers and contractors, it is necessary to provide standards for construction of these public improvements. The City’s Standards were last adopted by Council passage of Resolution No. 4978. Public Works is in the process of updating the Standards one category at a time, as the budget permits. The first category of Standards that has been updated is the Street Standards. This includes details for curb, gutter, sidewalk, ADA ramps, and driveways.

DISCUSSION:

The Street Standards were each reviewed by Public Works staff and the City Engineer. Not all needed to be revised but there were a few that needed minor revisions and a couple that needed major changes (see Table 1 below).

Table 1- Street Standard Details and Summary of Changes

Detail No.	Title	Minor Changes	Major Changes	No Change
R-1.1	Street Layout			X
R-1.2	Street Section			X
R-1.3	Cul-de-sac			X
R-2.1	Curb, gutter and sidewalk	X		
R-2.2	Cross gutter	X		
R-3.1	Pedestrian Ramp Type A		X	
R-3.2	Pedestrian Ramp Type B and C		X	
R-4.1	Commercial Driveway and Alley Approach	X		
R-4.2	Driveway	X		
R-5.1	City Monument			X
R-5.2	Street Name Sign and Sidewalk Warp			X
R-5.3	Standard Barricade			X
R-5.4	Pavement Markings			X

R-6.1	Street Light			x
R-6.2	Street Light Foundation			x

The next category that Public Works staff will be updating is the Water Standards. As design work is occurring for various water replacement projects, staff will determine if there is sufficient budget to accommodate updates to the Water Standards.

GOALS:

This action supports the following City Council Goals and General Plan Actions:

Goal 2 - Maintain, Improve and Invest in the City's Infrastructure (Water, Sewer, Streets, Circulation, Parks, Storm Drains and Public Facilities).

PUBLIC COMMENT:

As of the writing of this staff report, the City has not received any public comment. However, if staff receives public comment from interested parties following the publication and distribution of this staff report, such comments will be provided to the City Council as supplemental materials before or at the meeting. In addition, public comments may be offered during the public comment portion of this item.

PUBLIC NOTICE:

This item was noticed in accordance with the Ralph M. Brown Act and was available for public viewing and review at least 72 hours prior to schedule meeting date.

FISCAL IMPACTS:

There is no fiscal impact related to this action.

RECOMMENDATION:

Staff recommends the Sebastopol City Council adopt the Street Standards by Resolution.

ATTACHMENT:

Resolution

Exhibit "A" - Street Standards

RESOLUTION NO. ____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SEBASTOPOL
ADOPTING THE STREET STANDARD DETAILS AND SPECIFICATIONS (“STREET STANDARDS”)

WHEREAS, the City of Sebastopol has previously adopted the City of Sebastopol Standard Details and Specifications, more commonly referred to as “Standards,” including the Street Standards, by Resolution No. 4978 on September 1, 1998; and

WHEREAS, said Street Standards should periodically be updated to comply with current engineering best practices, and state and federal regulations; and

WHEREAS, the City Engineer has reviewed the updated Street Standards and recommends adoption; and

WHEREAS, minor discrepancies may be found from to time.

NOW, THEREFORE, BE IT RESOLVED that the City Council adopts the Street Standard Details and Specifications (“Street Standards”) dated June 2021 attached hereto as Exhibit “A,” and

BE IT FURTHER RESOLVED, that the City Engineer is authorized to make minor changes to the Street Standards to correct errors, conflicts, and discrepancies.

IN COUNCIL DULY PASSED, APPROVED and ADOPTED THIS 7th day of September 2021.

- VOTE:
- AYES:
- NOES:
- ABSENT:
- ABSTAIN:

APPROVED: _____
Mayor Una Glass

ATTEST: _____
Mary Gourley, Assistant City Manager/City Clerk, MMC

APPROVED AS TO FORM: _____
Larry McLaughlin, City Attorney

SECTION 5

STREET STANDARDS

- R-1.1 Street Layout
- R-1.2 Street Section
- R-1.3 Cul-De-Sac

- R-2.1 Curb, Gutter and Sidewalk
- R-2.2 Cross Gutter

- R-3.1 Pedestrian Ramp Type A
- R-3.2 Pedestrian Ramp Type B and C

- R-4.1 Commercial Driveway and Alley Approach
- R-4.2 Driveway

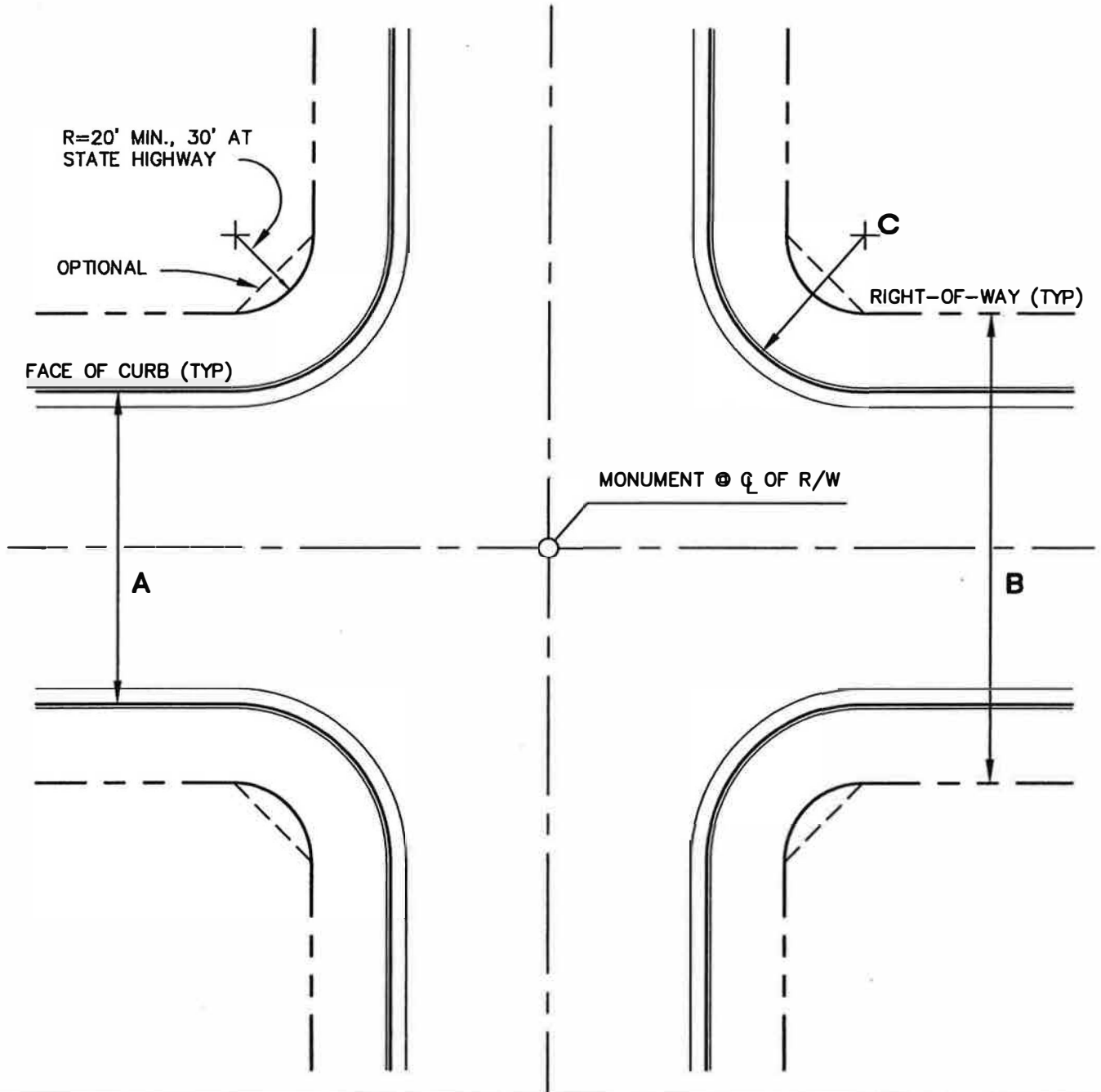
- R-5.1 City Monument
- R-5.2 Street Name Sign and Sidewalk Warp
- R-5.3 Standard Barricade
- R-5.4 Pavement Markings: Center Lines, Two-Way Left Turn Lanes, and Median Islands

- R-6.1 Street Light
- R-6.2 Street Light Pole Foundation

STREET TYPE	A CURB TO CURB WIDTH	B RIGHT-OF-WAY WIDTH	C CURB RETURN RADIUS
ARTERIAL	40'	64'	30', 35' AT STATE HWY
COLLECTOR	36'	60'	25'
LOCAL	32'	44'	20'
CUL DE SAC	36'	60'	25'

NOTES:

1. ADDITIONAL SIDEWALK EASEMENTS REQUIRED.
2. ADDITIONAL PUBLIC UTILITY EASEMENTS MAY BE REQUIRED ON BOTH SIDES OF RIGHT-OF-WAY.



STREET LAYOUT

STD. NO.
R-11

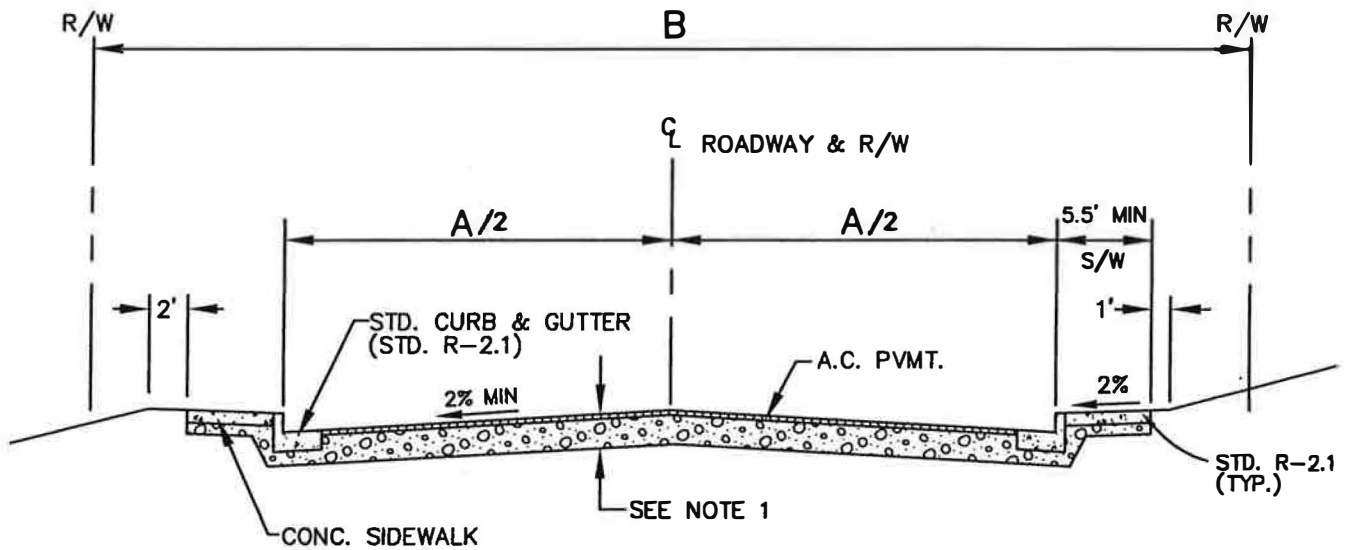
SCALE: NONE

DRAWN: LMM

CITY APPROVED

FOR OFFICIAL USE

DATE: JUNE 2021



NOTES:

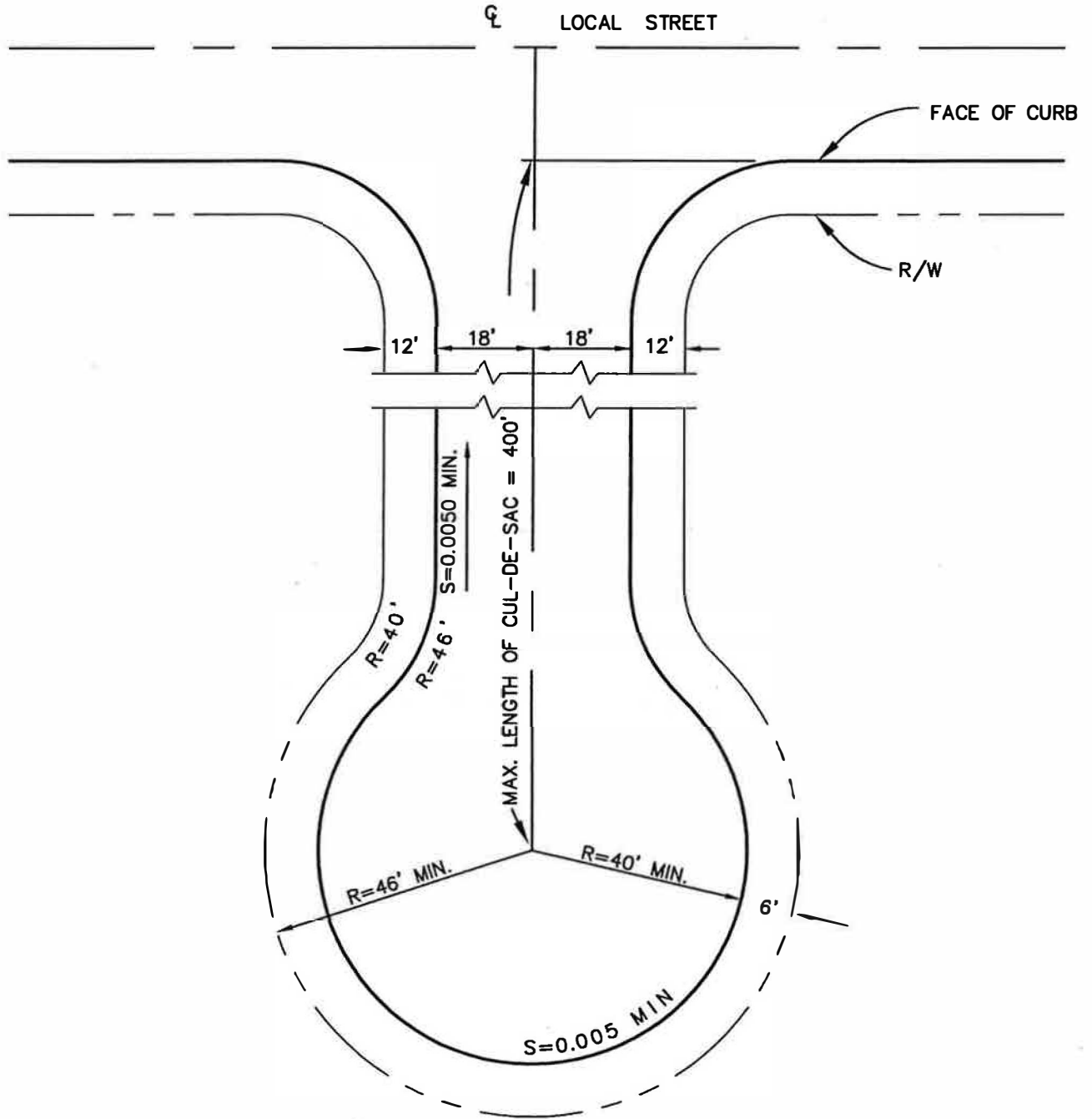
1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED BY SOILS REPORT AND SHOWN ON PLANS, SHOW "R" VALUE & T.I.
2. CUT SLOPES SHALL BE A MAXIMUM OF 2:1, UNLESS SOILS REPORT DETERMINES OTHERWISE.
3. FILL SLOPES SHALL BE A MAXIMUM OF 2:1
4. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE SLOPE EASEMENTS.
5. A 5'-10' P.U.E. AND SIDEWALK EASEMENTS REQUIRED ADJACENT TO THE RIGHTS-OF-WAY.



STREET SECTION

**STD. NO.
R-12**

SCALE: NONE | DRAWN: LMM | APPROVED: JG CITY ENG. | DATE: JUNE 2021



CROSS SLOPE IN BULB AREA SHALL BE MIN 2%.

NOTES:

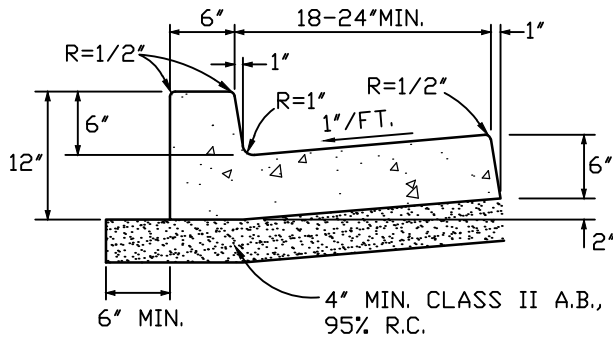
1. ADDITIONAL SIDEWALK EASEMENT REQUIRED IN BULB.
2. ADDITIONAL PUBLIC UTILITY EASEMENTS MAY BE REQUIRED ON BOTH SIDES OF RIGHT-OF-WAY.



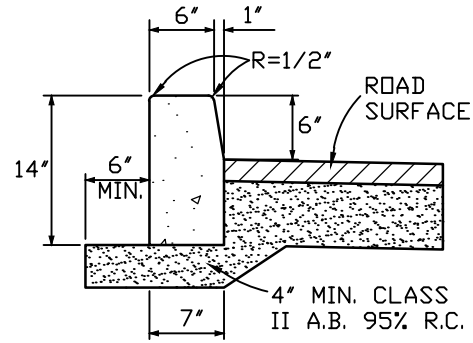
CUL-DE-SAC

STD. NO.
R-13

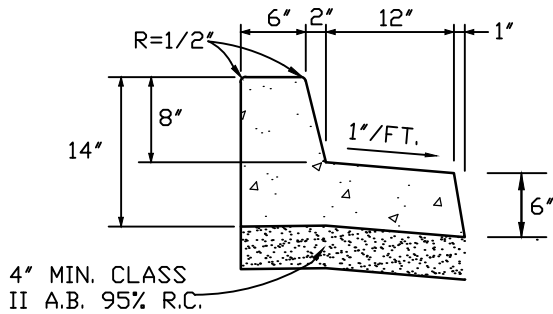
SCALE: NONE DRAWN: LMM City APPROVED: J. C. CITY ENGINEER DATE: 2021



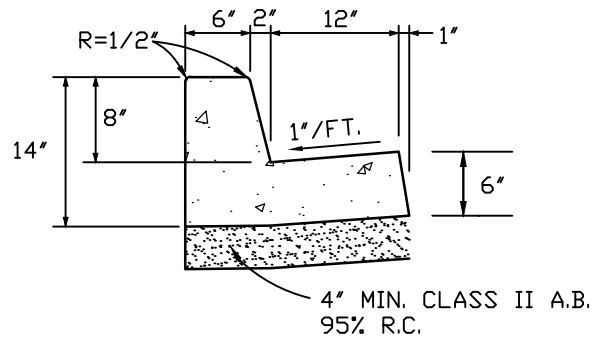
STANDARD CURB AND GUTTER
NOT TO SCALE



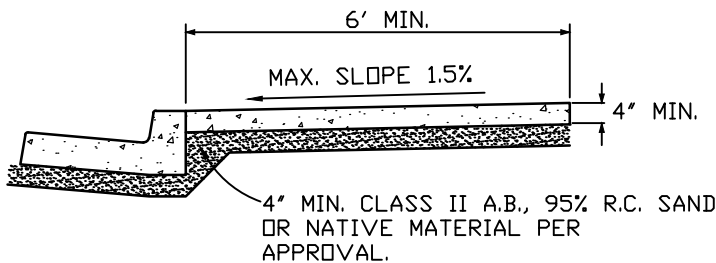
STANDARD VERTICAL CURB
NOT TO SCALE



TYPE A MEDIAN CURB
NOT TO SCALE



TYPE B MEDIAN CURB
NOT TO SCALE



STANDARD SIDEWALK
NOT TO SCALE

NOTES:

1. CONCRETE SHALL BE CLASS A AND SHALL CONTAIN NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
2. EXPANSION JOINTS, 1/4 INCH WIDE, SHALL BE INSTALLED AT EACH SIDE OF STRUCTURES, AT ENDS OF CURB RETURNS AND AT THE TOP OF DRIVEWAY TAPERS.
3. EXPANSION JOINTS SHALL BE INSTALLED AT 60FT INTERVALS, WITH WEAKENED PLANE JOINTS EVERY 15 FEET.
4. EXPANSION JOINTS SHALL BE PLACED IN CURB, GUTTER AND SIDEWALK AT ALL CURB RETURNS.
5. SIDEWALKS SHALL BE SCORED INTO 5 FOOT SQUARES UNLESS OTHERWISE SPECIFIED BY ENGINEER.
6. IF EXTRUSION MACHINE IS USED, EXPANSION JOINTS SHALL BE DEEP SCORED 1/3 THE THICKNESS.
7. WEIGHT OF CURB AND/OR SIDEWALK AND CLASS 2 AGGREGATE BASE SHALL EXCEED THE EXPANSION PRESSURE OF THE BASEMENT SOIL 'R' VALUE
8. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
9. WHERE APPLICABLE, NEATLY CUT AND REMOVE PAVEMENT. REPLACE WITH NEW A.C. AFTER CURB AND GUTTER IMPROVEMENTS ARE COMPLETE.
10. NEW CONCRETE POURED ADJACENT TO EXISTING CONCRETE SHALL CONTAIN AT LEAST ONE POUND OF LAMPBLACK PER CUBIC YARD.

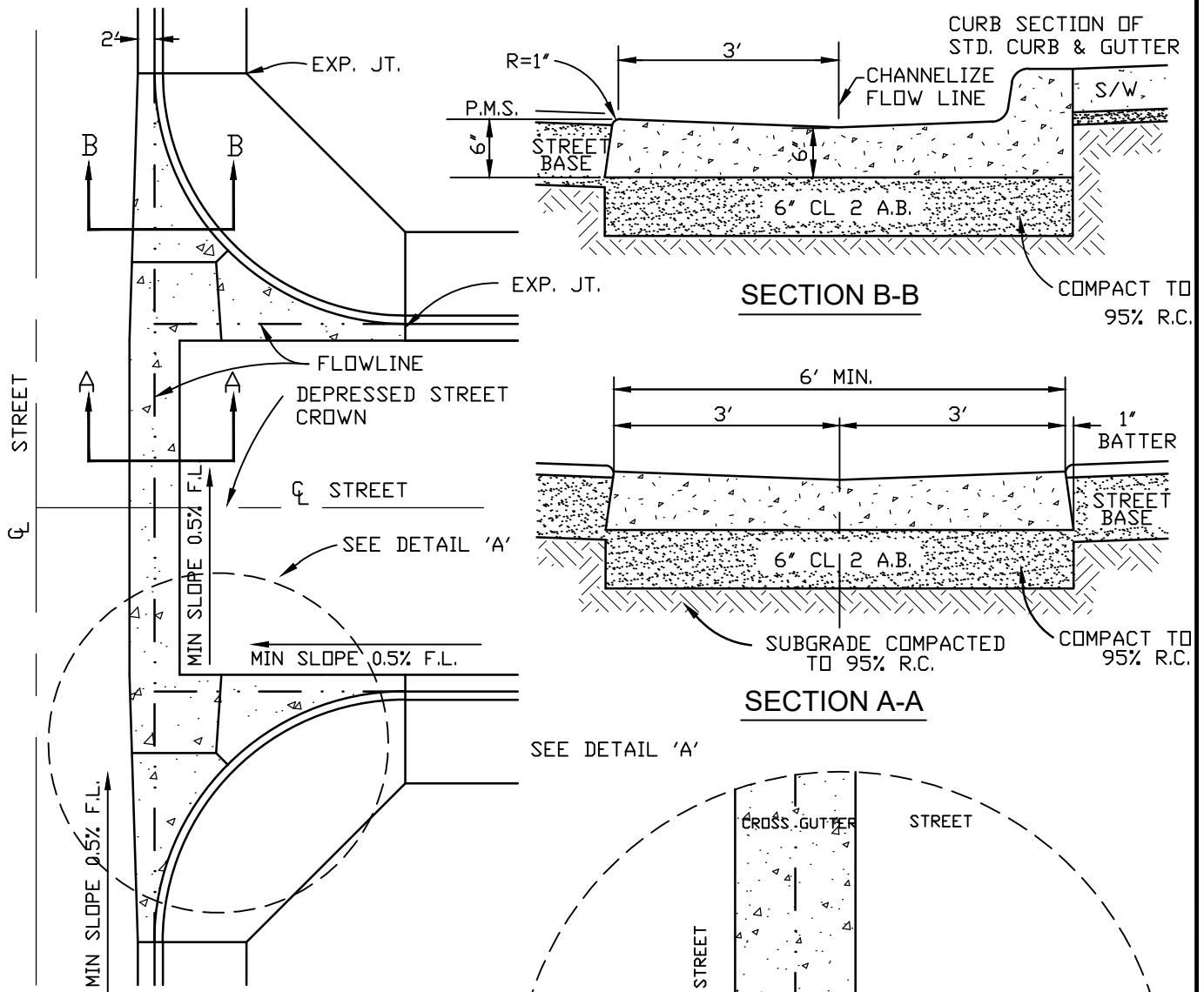


CURB, GUTTER AND SIDEWALK

STD. NO.
R-2.1

SCALE: NONE | DRAWN: LMM | APPROVED: JG, CITY ENGINEER

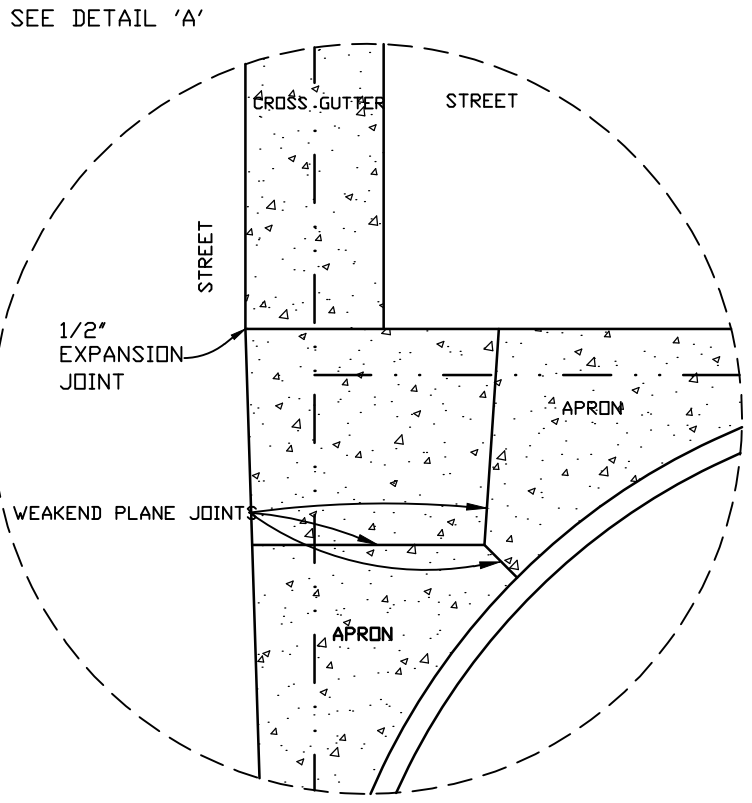
DATE: JUNE 2021



TYP. CROSS-GUTTER PLAN

NOTES:

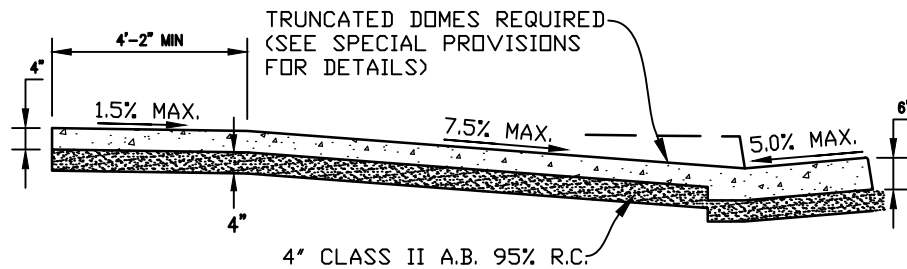
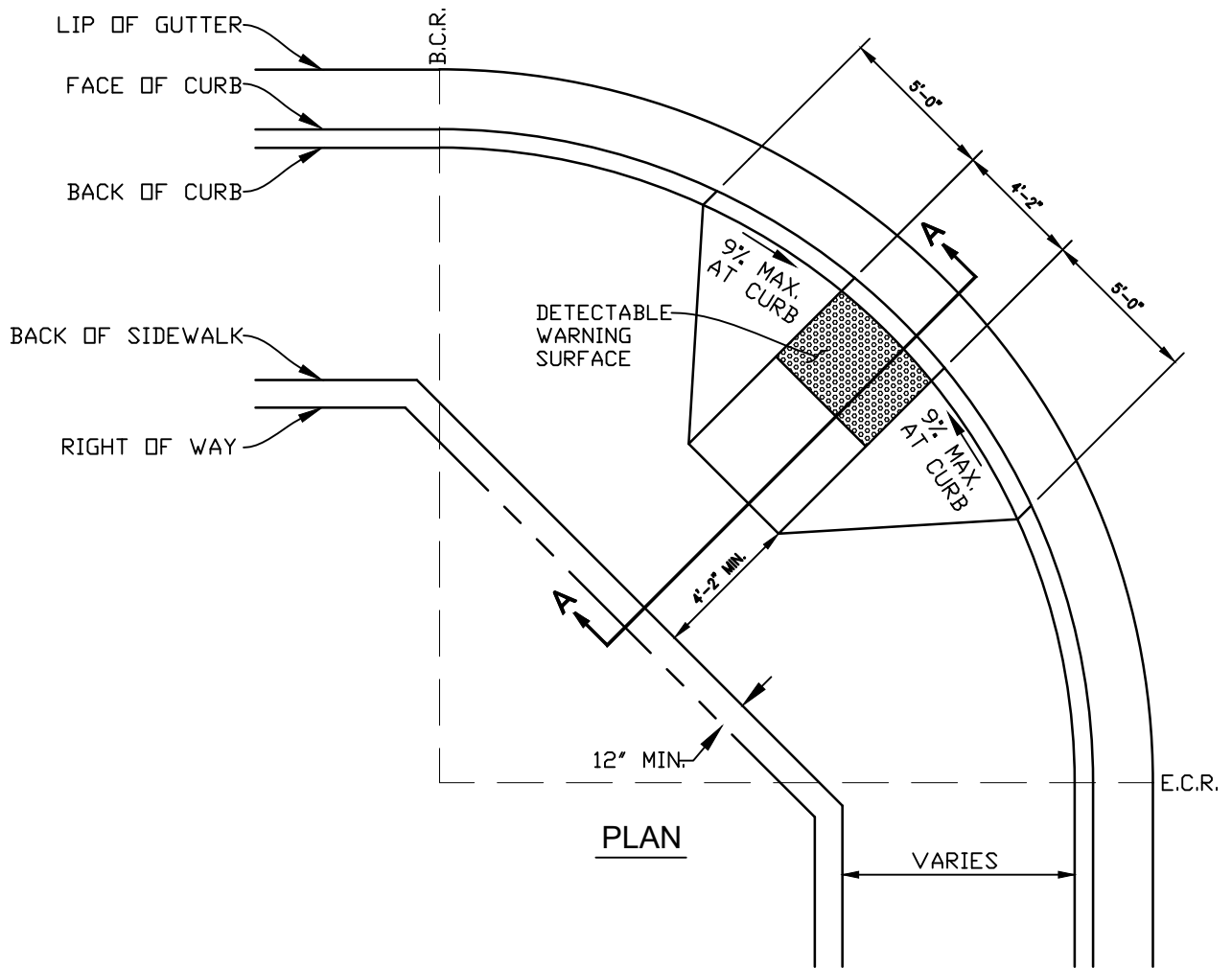
1. ALL CONCRETE SHALL BE CLASS "A" (6 SACK/ CU. YARD)
2. NEW CONCRETE POURED ADJACENT TO EXISTING CONCRETE SHALL CONTAIN AT LEAST ONE POUND OF LAMPBLACK PER CUBIC YARD.



CROSS GUTTER

STD. NO.
R-2.2

SCALE: NONE | DRAWN: LMM | APPROVED: JG, CITY ENGINEER | DATE: JUNE 2021



SECTION A-A

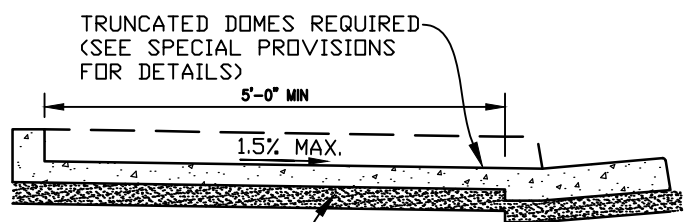
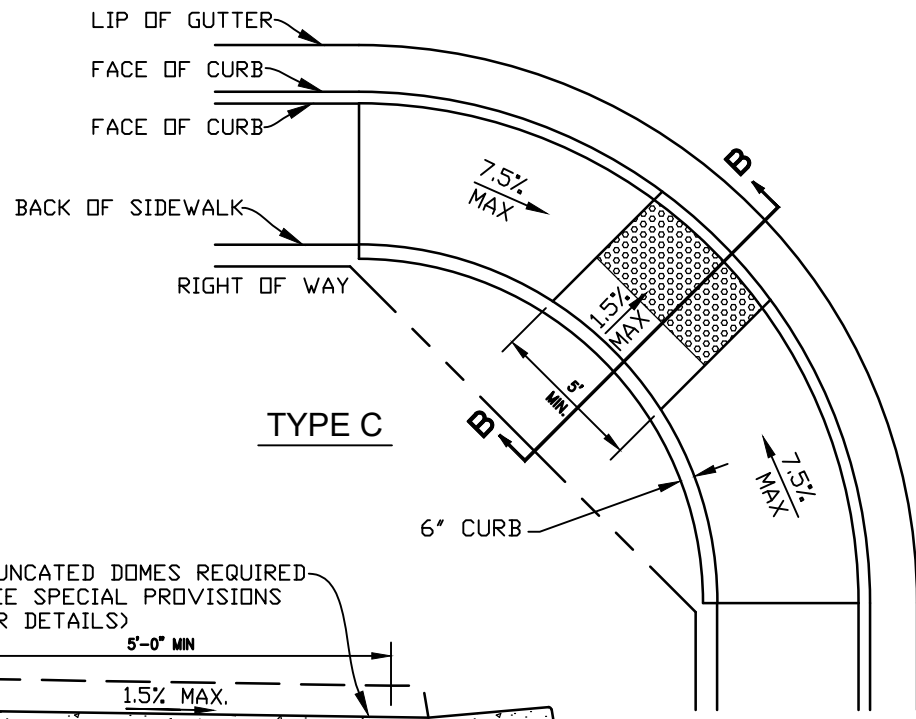
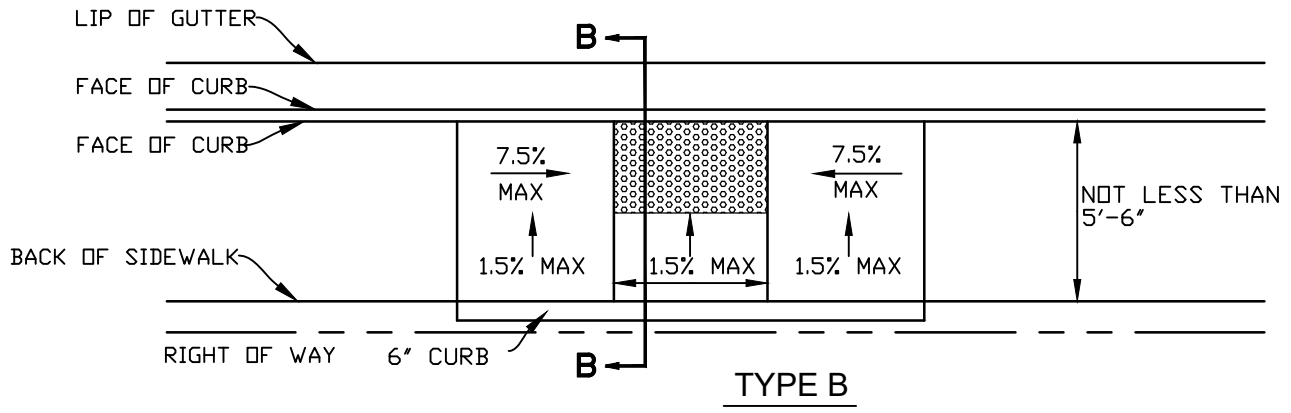


PEDESTRIAN RAMP TYPE A

STD. NO.
R-3.1

SCALE: NONE | DRAWN: LMM | APPROVED: JG, CITY ENGINEER

DATE: JUNE 2021



4" CLASS II A.B. 95% R.C.

SECTION B-B

NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH 1/2" LIP AND 45° BEVEL.
2. TYPE A AND C RAMPS SHALL BE LOCATED AT THE CENTER OF THE CURB RETURN.
3. CONCRETE SHALL BE CLASS "A" WITH NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
4. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. NEW CONCRETE POURED ADJACENT TO EXISTING CONCRETE SHALL CONTAIN AT LEAST ONE POUND OF LAMPBLACK PER CUBIC YARD.

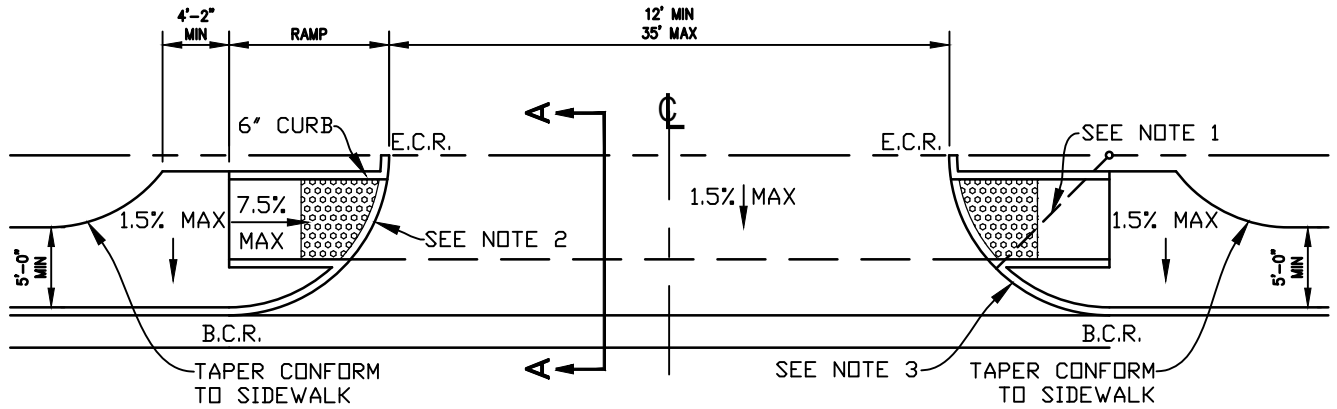


PEDESTRIAN RAMP TYPE B AND C

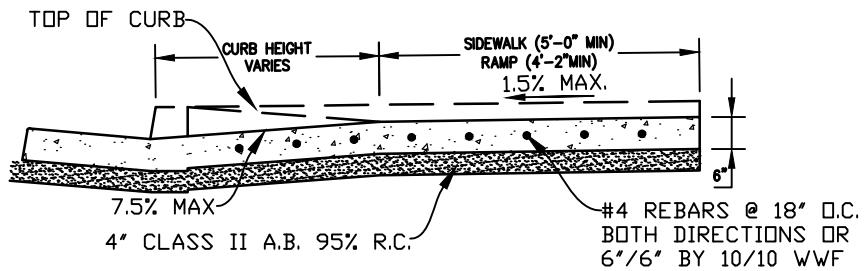
STD. NO.
R-3.2

SCALE: NONE | DRAWN: LMM | APPROVED: JG, CITY ENGINEER

DATE: JUNE 2021



COMMERCIAL DRIVEWAY



SECTION A-A

NOTES:

1. RADIUS TO BE A MINIMUM OF 10 FEET.
2. RAMP SHALL BE FLUSH ACROSS DRIVEWAY.
3. CURB HEIGHT VARIES FROM FULL HEIGHT AT B.C. TO FLUSH AT RAMP.
4. NEW CONCRETE POURED ADJACENT TO EXISTING CONCRETE SHALL CONTAIN AT LEAST ONE POUND OF LUMPBLACK PER CUBIC YARD.

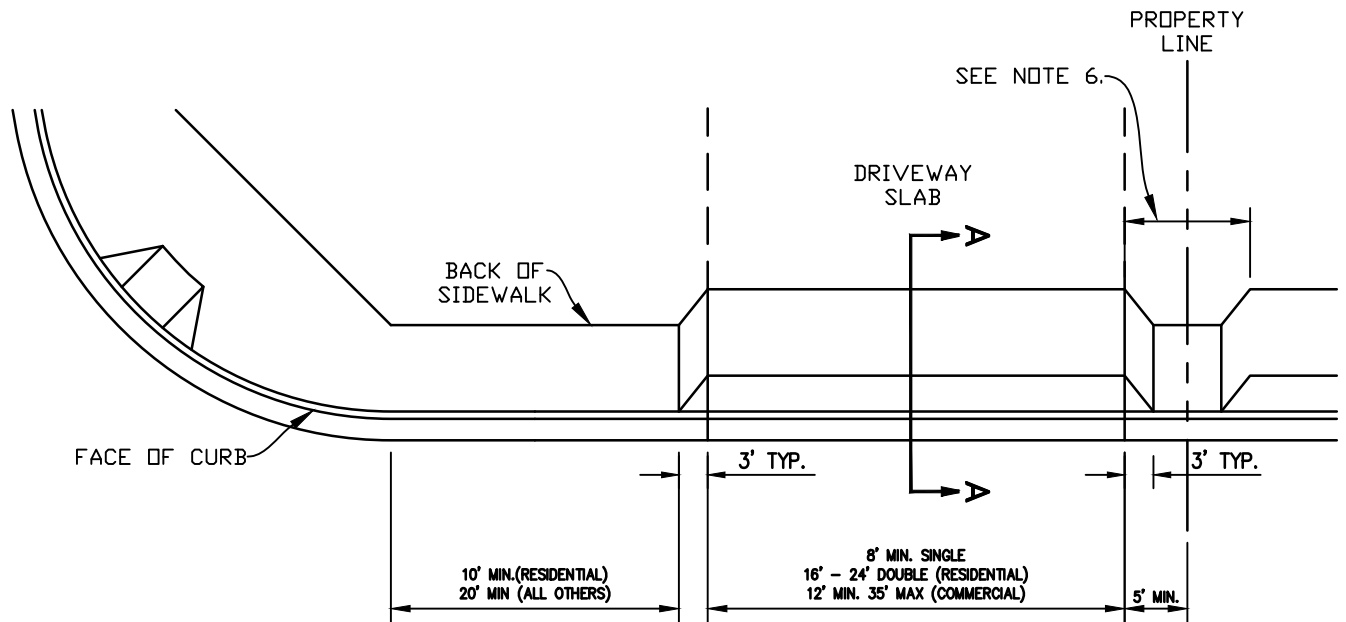


**COMMERCIAL DRIVEWAY
AND ALLEY APPROACH**

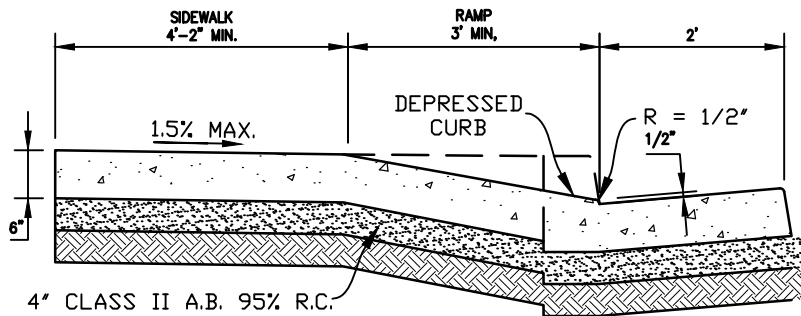
STD. NO.
R-4.1

SCALE: NONE DRAWN: LMM APPROVED: JG, CITY ENGINEER

DATE: JUNE 2021



PLAN



SECTION A-A

NOTES:

- WEAKENED PLANE JOINTS SHALL BE INSTALLED AT THE CENTER OF ALL DRIVEWAYS OVER 20' WIDE.
- MAXIMUM SIDEWALK CROSS SLOPE 1.5%.
- WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN A 4'-2" MINIMUM CLEARANCE.
- ALL CONCRETE SHALL BE CLASS "A" CONTAINING NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
- WELDED WIRE FABRIC (4"X4",10/10) SHALL BE PLACED THROUGHOUT COMMERCIAL AND INDUSTRIAL DRIVEWAYS WITHIN THE STREET RIGHT OF WAY.
- IF DISTANCE BETWEEN DRIVEWAYS IS LESS THAN 10', OMIT CURB ISLAND.
- NEW CONCRETE POURED ADJACENT TO EXISTING CONCRETE SHALL CONTAIN AT LEAST ONE POUND OF LAMPBLACK PER CUBIC YARD.



DRIVEWAY

STD. NO.

R-4.2

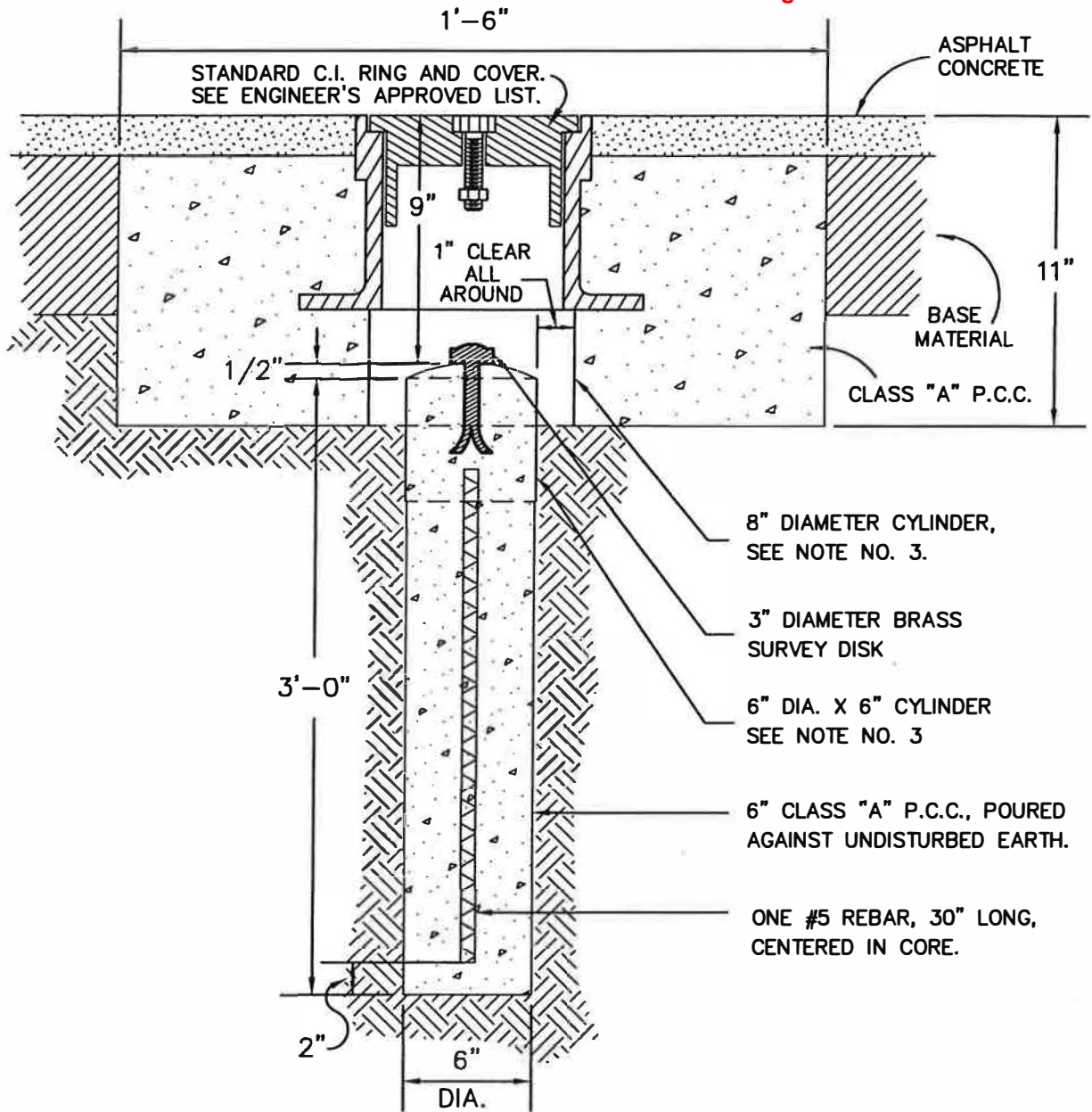
SCALE: NONE

DRAWN: LMM

APPROVED:

JG, CITY ENGINEER

DATE: JUNE 2021



NOTES:

1. SURVEYOR OR ENGINEER SETTING THE MONUMENT SHALL INDICATE EXACT POINT BY MAKING A CROSS ON THE CAP AND SHALL STAMP YEAR SET AND HIS/HER LICENSE TYPE AND NUMBER.
2. THE DEPTH OF THE MONUMENT POST SHALL BE LENGTHENED OR SHORTENED AS DICTATED BY THE GROUND CONDITIONS OR AS APPROVED BY THE CITY ENGINEER. IN SOFT GROUND OR FILL AREAS THE MONUMENT POST SHALL BE LENGTHENED TO BED IT ON A STABLE BASE.
3. CYLINDER MATERIAL SHALL BE THINWALL A.B.S. OR P.V.C. PLASTIC PIPE.
4. TOP OF MONUMENT CORE SHALL BE FINISHED SMOOTH AND ROUNDED WITH NO CONCRETE ABOVE EDGE OF BRASS SURVEY MARKER.
5. ASTM CLASS 30 IRON CASTINGS DIPPED IN ASPHALT PAINT



CITY MONUMENT

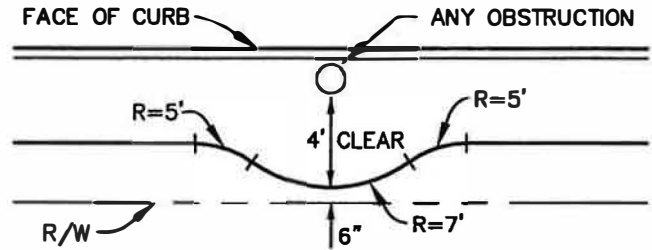
STD. NO.
R-51

SCALE: NONE | DRAWN: MGA | APPROVED: JG CITY ENG. | DATE: JUNE 2021

Agenda Item Number 7
City Council Meeting Packet for September 7, 2021

SIDEWALK WARP

* MAY BE REDUCED TO 3" ON EXISTING STREETS TO PROVIDE A MINIMUM SIDEWALK CLEARANCE OF 3 FEET.



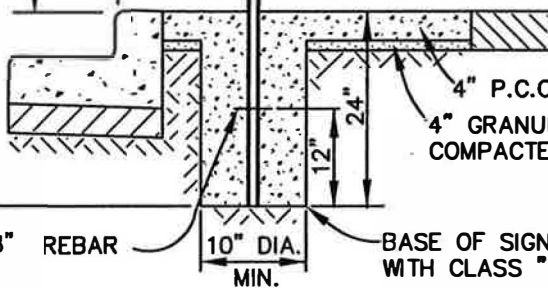
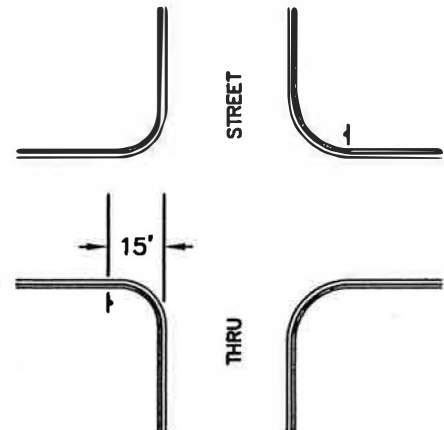
6" MIN.
ALL SIGNS *



STANDARD 30" STOP SIGN (36" AT STATE HIGHWAY)

7' MIN.
ALL SIGNS

SIGN POST TO BE 2" STANDARD GALVANIZED PIPE



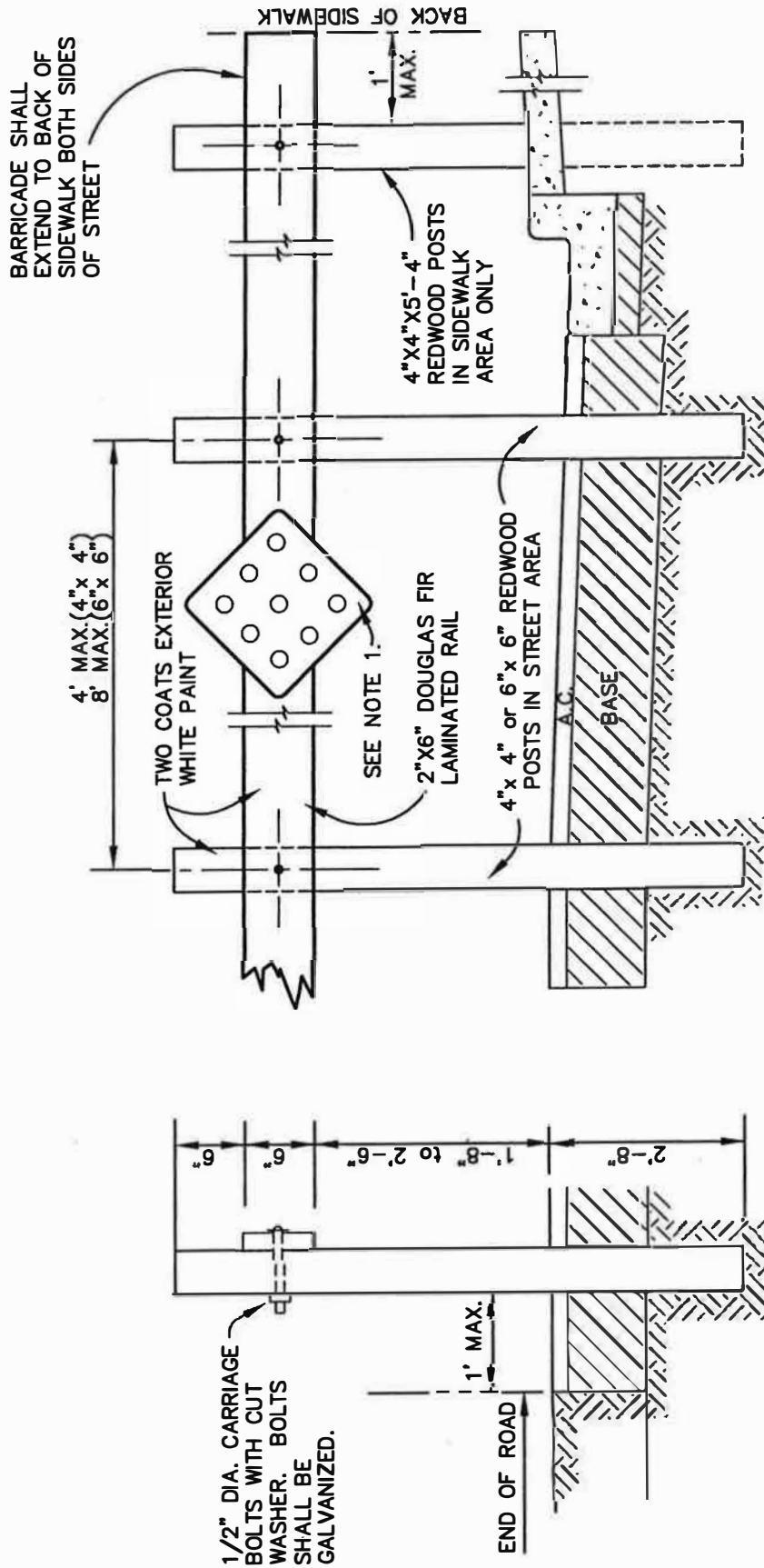
BASE OF SIGN TO BE POURED WITH CLASS "A" P.C.C.

6" x 3/8" REBAR OR BOLT



STREET NAME SIGN AND SIDEWALK WARP

STD. NO.
R-5.2



BARRICADE SHALL EXTEND TO BACK OF SIDEWALK BOTH SIDES OF STREET

4"X4"X5'-4" REDWOOD POSTS IN SIDEWALK AREA ONLY

4' MAX. (4" x 4")
8' MAX. (6" x 6")
TWO COATS EXTERIOR WHITE PAINT

SEE NOTE 1.
2"X6" DOUGLAS FIR LAMINATED RAIL

4" x 4" or 6" x 6" REDWOOD POSTS IN STREET AREA

1/2" DIA. CARRIAGE BOLTS WITH CUT WASHER. BOLTS SHALL BE GALVANIZED.

NOTES:

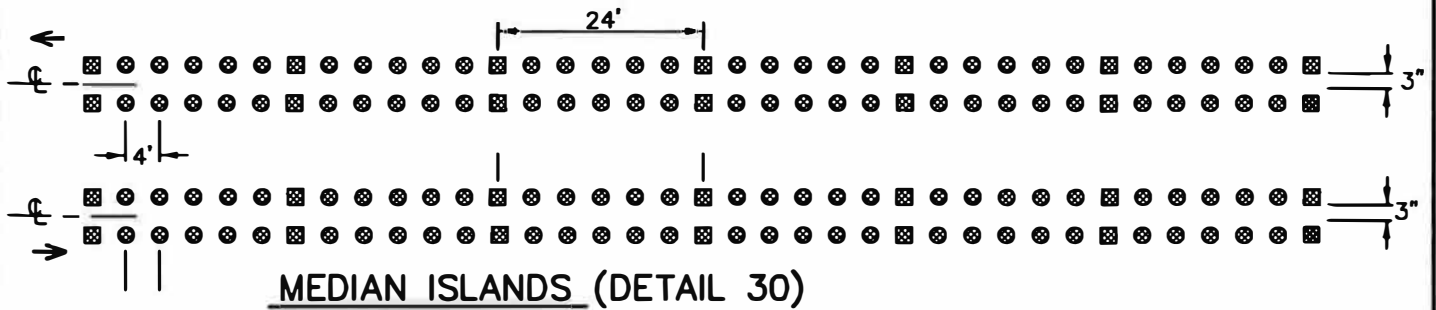
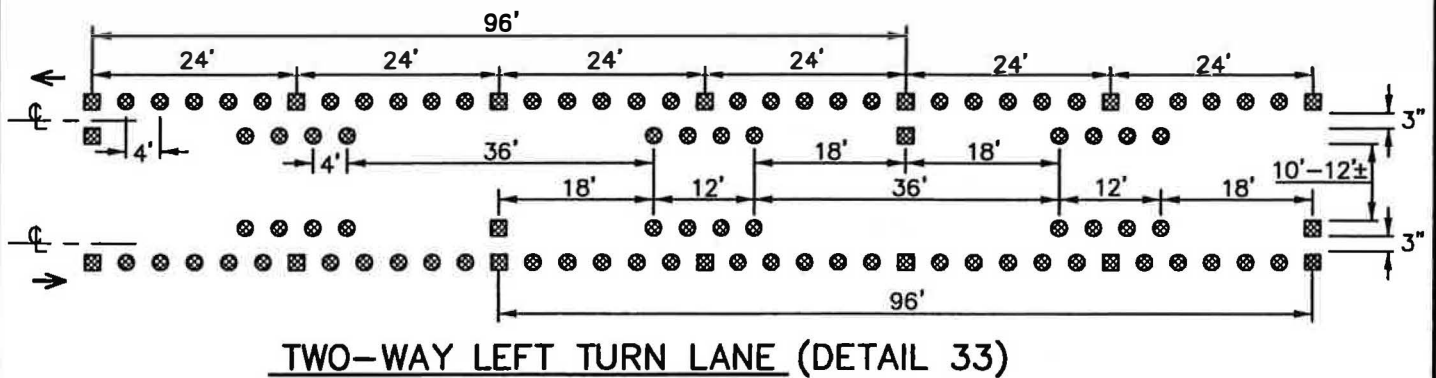
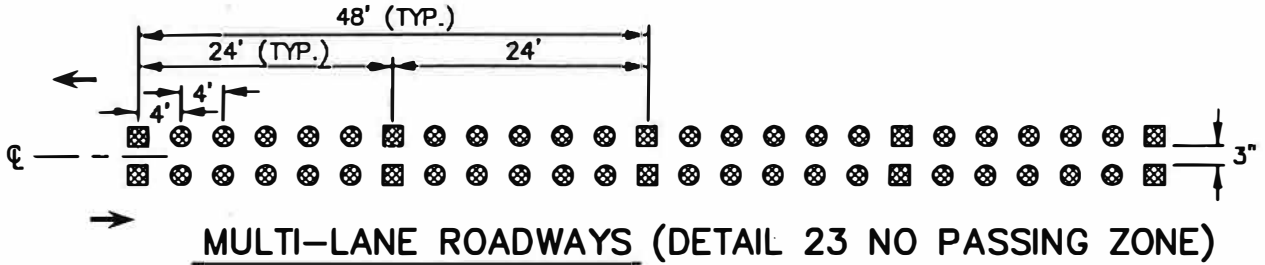
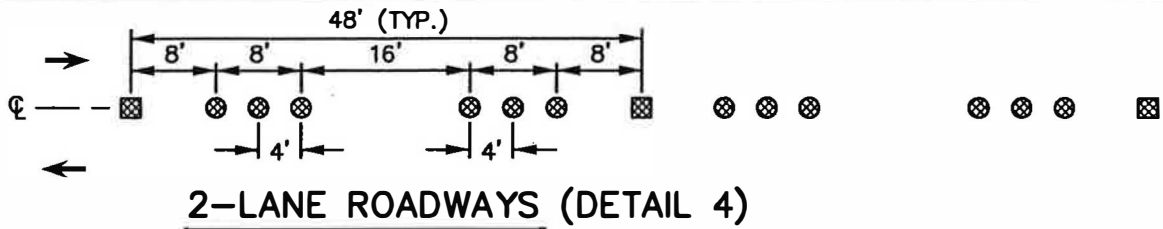
1. INSTALL 18" X 18" ALUMINUM TYPE N-5 REFLECTOR, NO MORE THAN 8' o.c., MINIMUM 3
2. SIDEWALKS ONLY - INSTALL 4" YELLOW REFLECTORS.



STANDARD BARRICADE

STD. NO. R-5.3

SCALE: NONE DRAWN: MGA ^{City} APPROVED: JG, CITY ENG. DATE: JUNE 2021



LEGEND

- TWO-WAY YELLOW REFLECTIVE MARKER
- NON-REFLECTIVE YELLOW MARKER
- ➔ DIRECTION OF TRAVEL

NOTES:

1. FOR TWO LANE ROADWAYS, PLACE ADDITIONAL REFLECTORS AT 24 FT. O.C. ON CURVES WITH A RADIUS OF 750 FT. OR LESS.
2. THE FIRST AND LAST MARKER AT EACH INTERSECTION SHALL BE A REFLECTOR.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER
4. ALL PARKERS AND MARKER INSTALLATION SHALL MEET STATE STANDARDS EXCEPT AS NOTED.



**PAVEMENT MARKINGS: CENTER LINES,
TWO-WAY LEFT TURN LANES,
AND MEDIAN ISLANDS**

STD. NO.
R-5.4

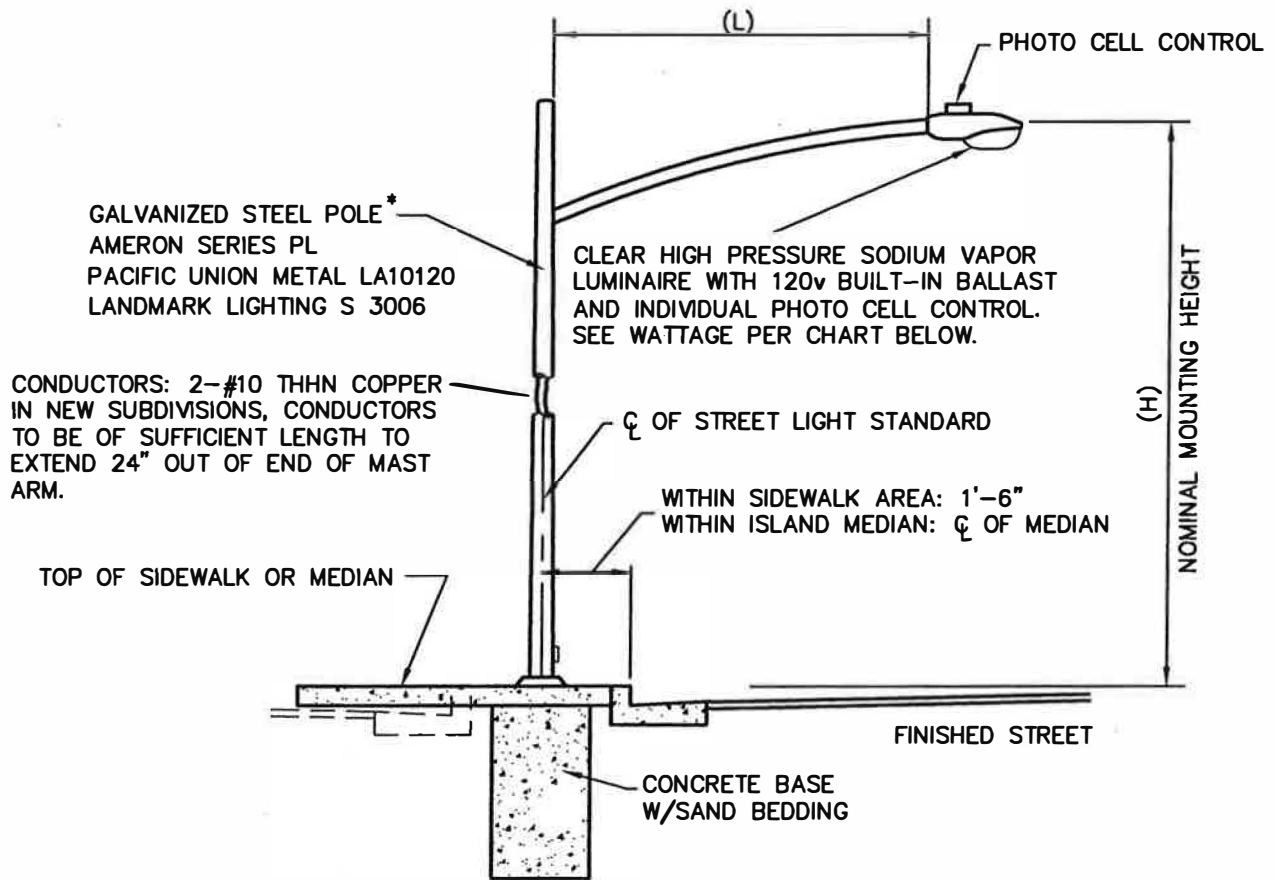
SCALE: NONE

MGA City

APPROVED:

JG, CITY ENG.

DATE: 2021 JUNE 2021

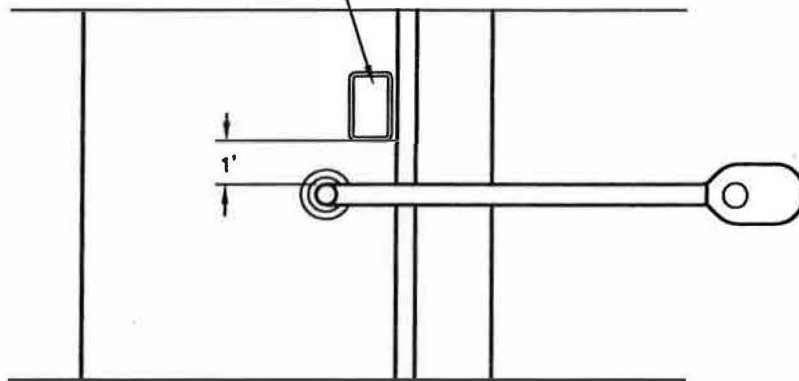


CONDUCTORS: 2-#10 THHN COPPER IN NEW SUBDIVISIONS, CONDUCTORS TO BE OF SUFFICIENT LENGTH TO EXTEND 24" OUT OF END OF MAST ARM.

TOP OF SIDEWALK OR MEDIAN

WITHIN SIDEWALK AREA: 1'-6"
WITHIN ISLAND MEDIAN: C OF MEDIAN

INSTALL #5 CONCRETE PULLBOX @ ALL LIGHT STANDARDS, NEXT TO POLE, PARALLEL AND FLUSH TO CURB & GUTTER



*ALTERNATES TO BE SPECIFICALLY APPROVED BY THE CITY ENGINEER.

STREET CLASSIFICATION	POLE HEIGHT(H)	ARM LENGTH(L)	MAXIMUM SPACING	WATTAGE
ARTERIAL	32'-6"	8'-0"	100'	150
COLLECTOR, CUL-DE-SAC	28'-0"	6'-0"	200'	100
LOCAL	27'-6"	4'-0"	200'	70



STREET LIGHT

STD. NO.
R-6.1

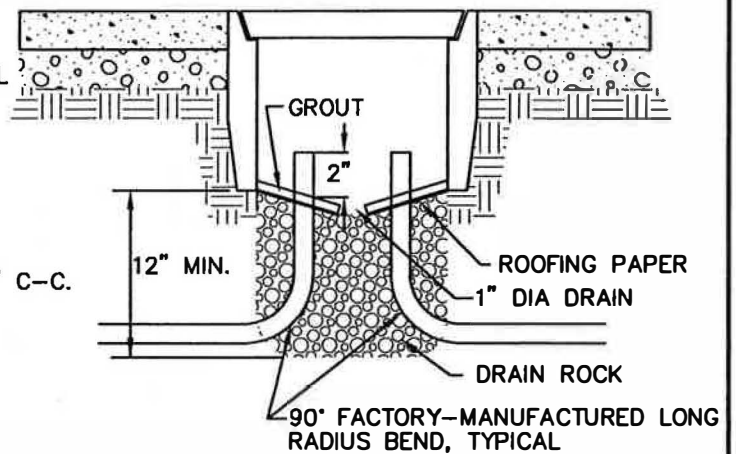
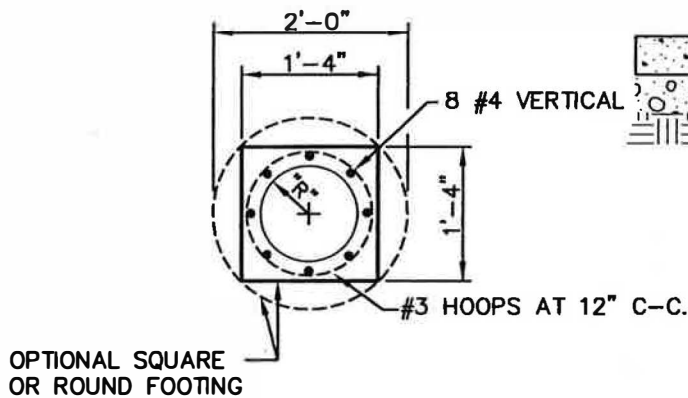
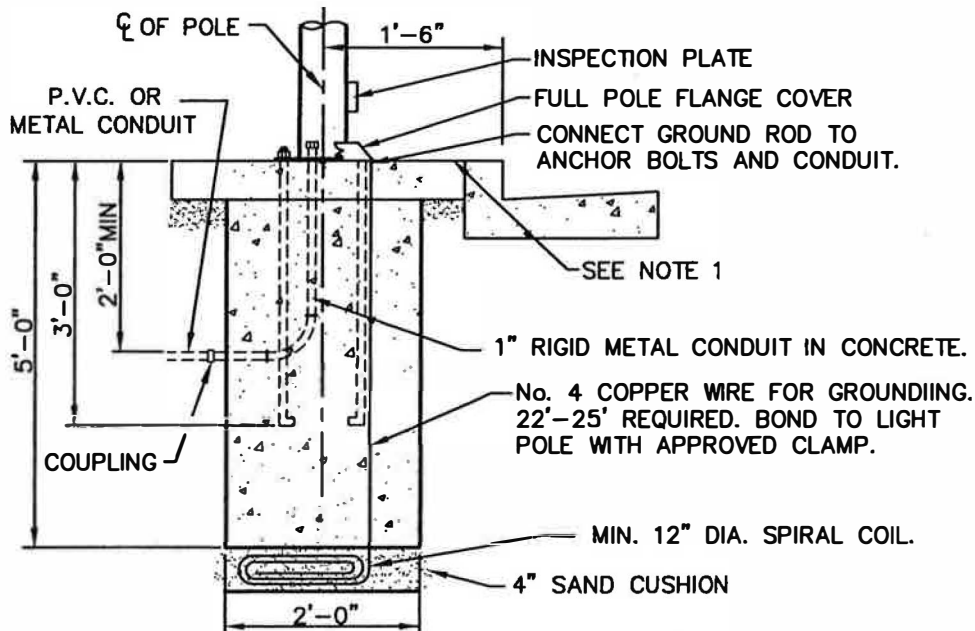
SCALE: NONE

DRAWN: LMY

APPROVED: JG

CITY ENGINEER

DATE: JUNE 2021



PULLBOX

NOTES:

- 1 IN UNDEVELOPED AREAS, CONSTRUCT A 2'x2' CONC. PAD (4" THICK). IF ROUND FOOTING IS POURED, STOP AT THE ELEVATION OF BOTTOM OF THE SIDEWALK.
- 2 ANCHOR BOLT DIMENSION "R" AND BOLT PATTERN TO SUIT POLE BASE FURNISHED.
- 3 CONCRETE SHALL BE CLASS "A" P.C.C. AGAINST UNDISTURBED SOIL.
- 4 SEE ENGINEER'S APPROVED LIST FOR ALTERNATE FOUNDATIONS.
- 5 A MINIMUM OF TWO FULL THREADS TO BE EXPOSED ABOVE ANCHOR BOLT NUTS.



STREET LIGHT POLE FOUNDATION

STD. NO.
R-6.2