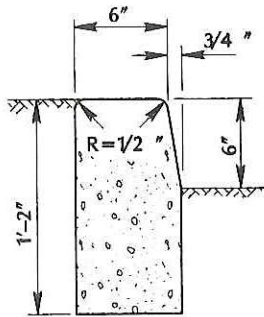
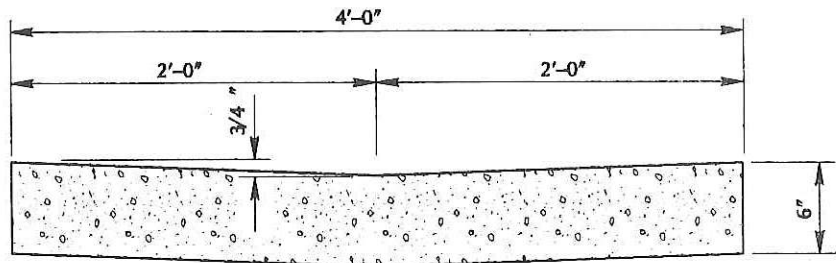


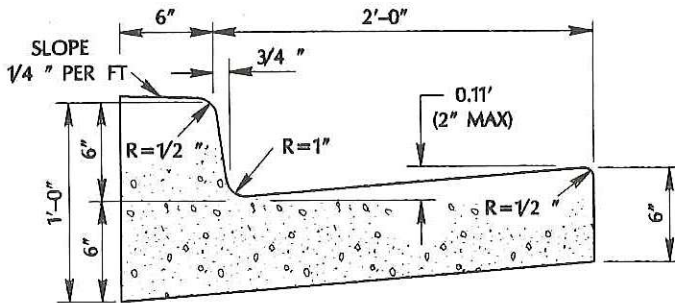
# **ROADWAY GEOMETRICS**



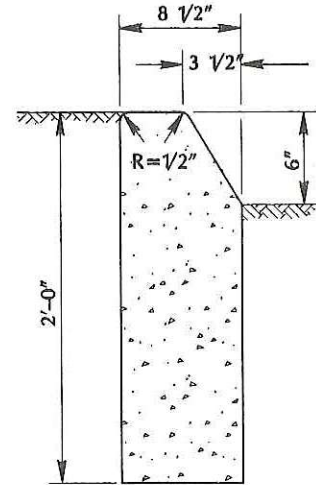
A1



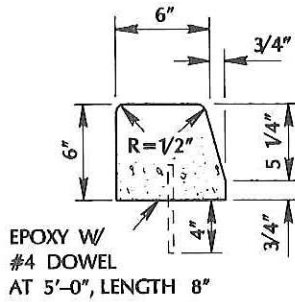
V-VALLEY GUTTER



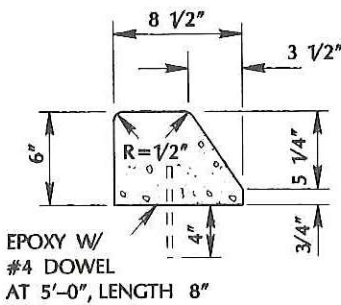
A2



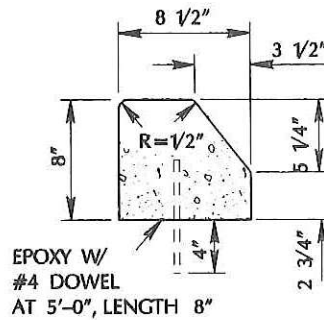
B1



A1-B3



B3-6



B3-8

APPROVED BY

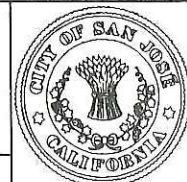
*J D m*

DATE

4/0/92

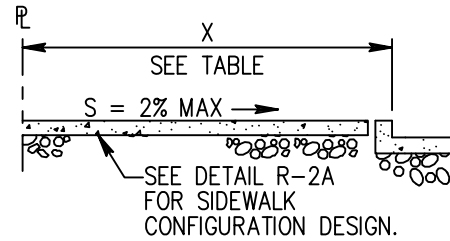
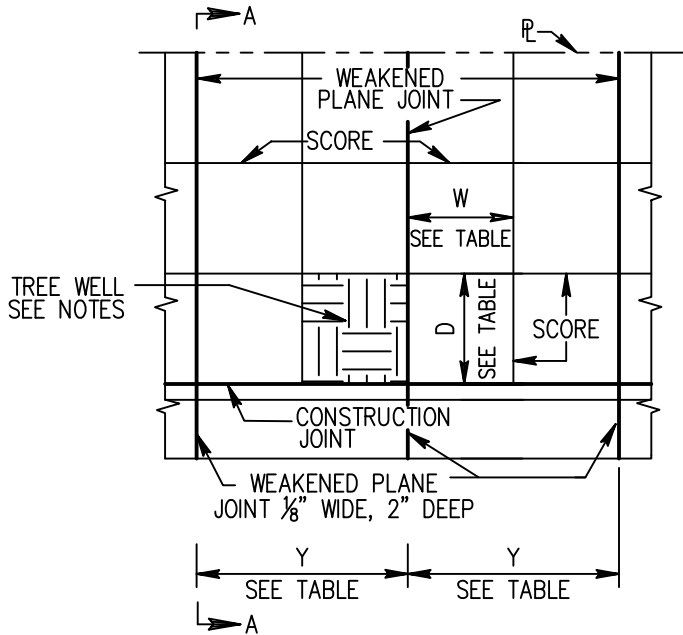
CONCRETE CURB AND/OR  
GUTTER TYPES

DEPARTMENT OF PUBLIC WORKS



DRAWING  
NO.

R-1



SECTION A-A

CITY CONNECTOR STREET				
CONTEXT TYPE	X (FT)	Y (FT)	W (FT)	D (FT)
DOWNTOWN*	15	10	5	5
URBAN VILLAGE*	10	10	5	5
ALL OTHERS	10	10	5	5

\* SEE NOTES

MAIN STREET				
CONTEXT TYPE	X (FT)	Y (FT)	W (FT)	D (FT)
DOWNTOWN*	15	10	5	5
URBAN VILLAGE*	10	10	5	5
	15	10	5	5
ALL OTHERS	10	10	5	5

\* SEE NOTES

LOCAL STREET				
CONTEXT TYPE	X (FT)	Y (FT)	W (FT)	D (FT)
DOWNTOWN*	10	10	5	5
URBAN VILLAGE*	10	10	5	5
RESIDENTIAL NEIGHBORHOOD	9	10	5	4
ALL OTHERS	10	10	5	5

\* SEE NOTES

GRAND BOULEVARD				
CONTEXT TYPE	X (FT)	Y (FT)	W (FT)	D (FT)
DOWNTOWN*	16	12	6	4
URBAN VILLAGE*	15	10	5	5
TRANSIT EMPLOYMENT CENTER	15	10	5	5
ALL OTHERS	12	10	5	4

\* SEE NOTES

**NOTES**

1. SIDEWALK SCORING PATTERNS SHALL BE AS INDICATED IN THE STREET INFORMATION TABLE, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. STREET TYPOLOGIES ARE AS INDICATED IN THE ADOPTED COMPLETE STREETS STANDARDS AND GUIDELINES.
3. SIDEWALK WIDTHS SPECIFIED IN AN URBAN VILLAGE PLAN, ADOPTED BY THE CITY COUNCIL, SUPERSEDE THE VALUES SHOWN ON THE STREET INFORMATION TABLE WITHIN THE CORRESPONDING URBAN VILLAGE.
4. SIDEWALK WIDTHS SPECIFIED IN THE DOWNTOWN MASTER PLAN ADOPTED BY CITY COUNCIL, THAT ARE LARGER THAN THE VALUES SHOWN ON THE STREET INFORMATION TABLE, SUPERSEDE THE VALUES SHOWN ABOVE WITHIN THE CORRESPONDING DOWNTOWN STREET.
5. TREE WELL SIZE SHALL MATCH SIDEWALK SCORING PATTERN. REFER TO DETAIL R-2C FOR TREE WELL SPACING REQUIREMENTS.

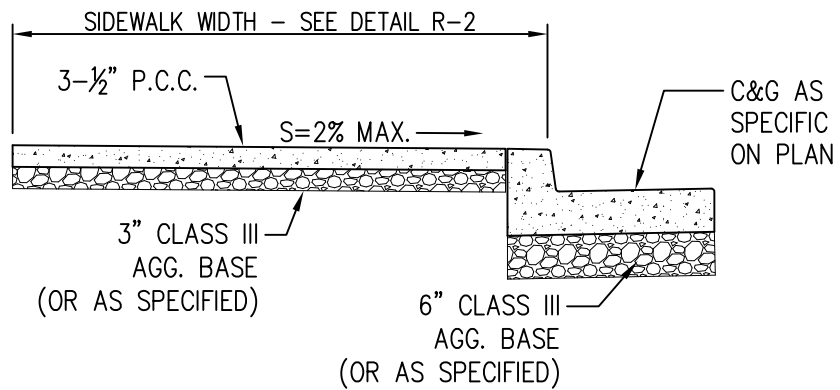
APPROVED BY  
  
 DATE  
 10/27/2020

**CURB, GUTTER & SIDEWALK CONFIGURATIONS**

DEPARTMENT OF PUBLIC WORKS

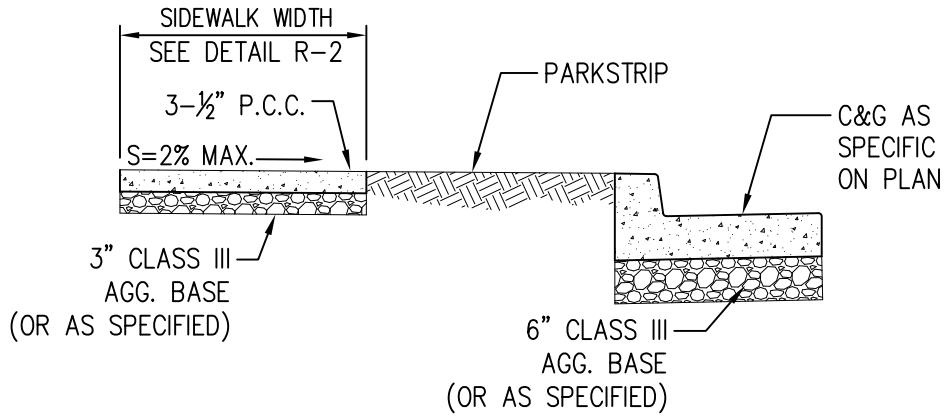


DRAWING NO.  
 R-2



ATTACHED CONCRETE SIDEWALK

N.T.S.



DETACHED CONCRETE SIDEWALK

N.T.S.

NOTES

1. AGGREGATE BASE SHALL BE COMPACTED BY CITY STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR PROJECT SPECIFICATIONS.
2. SUBGRADE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION UNLESS OTHERWISE SPECIFIED ON THE PLANS OR PROJECT SPECIFICATIONS.

APPROVED BY

DATE

10/16/2020

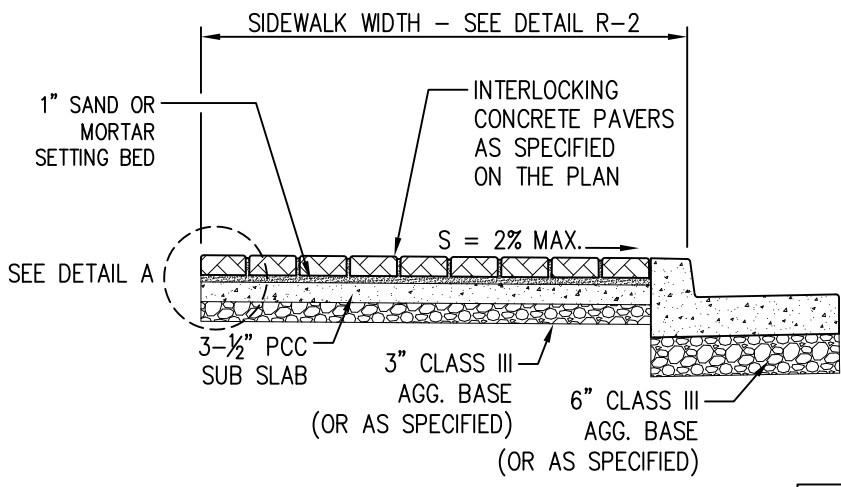
**PCC SIDEWALK  
CONFIGURATION DESIGN**

DEPARTMENT OF PUBLIC WORKS

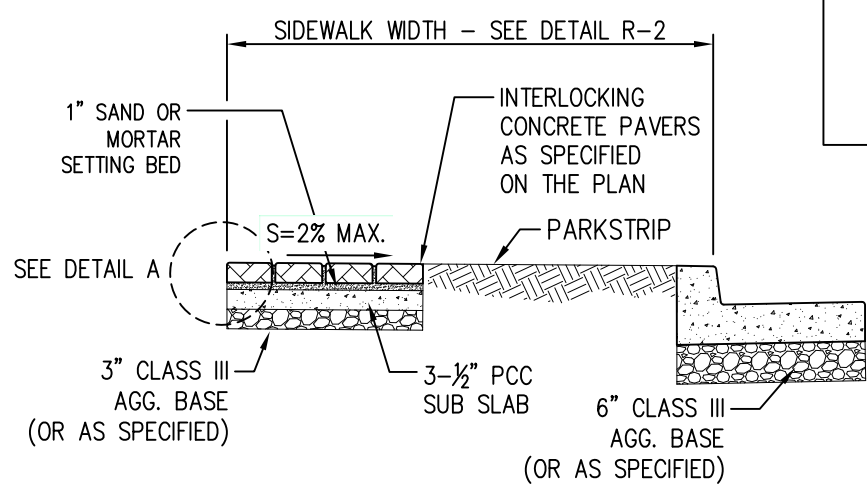
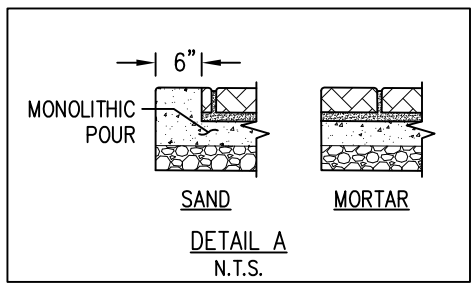


DRAWING  
NO.

**R-2A**



**INTERLOCKING PAVER – ATTACHED SIDEWALK**  
N.T.S.



**INTERLOCKING PAVER – DETACHED SIDEWALK**  
N.T.S.

**NOTES**

1. AGGREGATE BASE SHALL BE COMPACTED BY CITY STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR PROJECT SPECIFICATIONS.
2. SUBGRADE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION UNLESS OTHERWISE SPECIFIED ON THE PLANS OR PROJECT SPECIFICATIONS.
3. PAVER SIZE, COLOR AND PATTERN SHALL BE AS SHOWN ON THE PROJECT PLANS AND SPECIFICATIONS.
4. MORTAR SETTING BED SHALL BE PER THE PAVER MANUFACTURERS RECOMMENDATIONS AND SUBJECT TO APPROVAL BY THE CITY ENGINEER PRIOR TO PLACEMENT.
5. ATTACHED SIDEWALK CONFIGURATIONS, UTILIZING THE SAND SETTING BED, REQUIRES A 6" CONCRETE BAND AROUND TREE WELLS AS SHOWN IN DETAIL A.
6. DETACHED SIDEWALK, UTILIZING THE SAND SETTING BED, REQUIRES 6" CONCRETE BAND AT FRONT AND BACK OF WALK.
7. FOR DRIVEWAY CONFIGURATIONS PCC SUB SLAB AND CLASS III AGGREGATE BASE SHALL BE 6" IN-LIEU OF VALUES SHOWN ABOVE.
8. CONCRETE PAVER JOINTS SHALL BE INFILLED WITH SAND PER MANUFACTURERS RECOMMENDATIONS.
9. CONTROL JOINT SPACING FOR SUB SLAB SHALL BE A MAXIMUM OF 5 FEET IN EACH DIRECTION.
10. USE OF INTERLOCKING PAVER SIDEWALKS VS. STANDARD P.C.C. SIDEWALKS REQUIRES APPROVAL BY THE CITY ENGINEER.

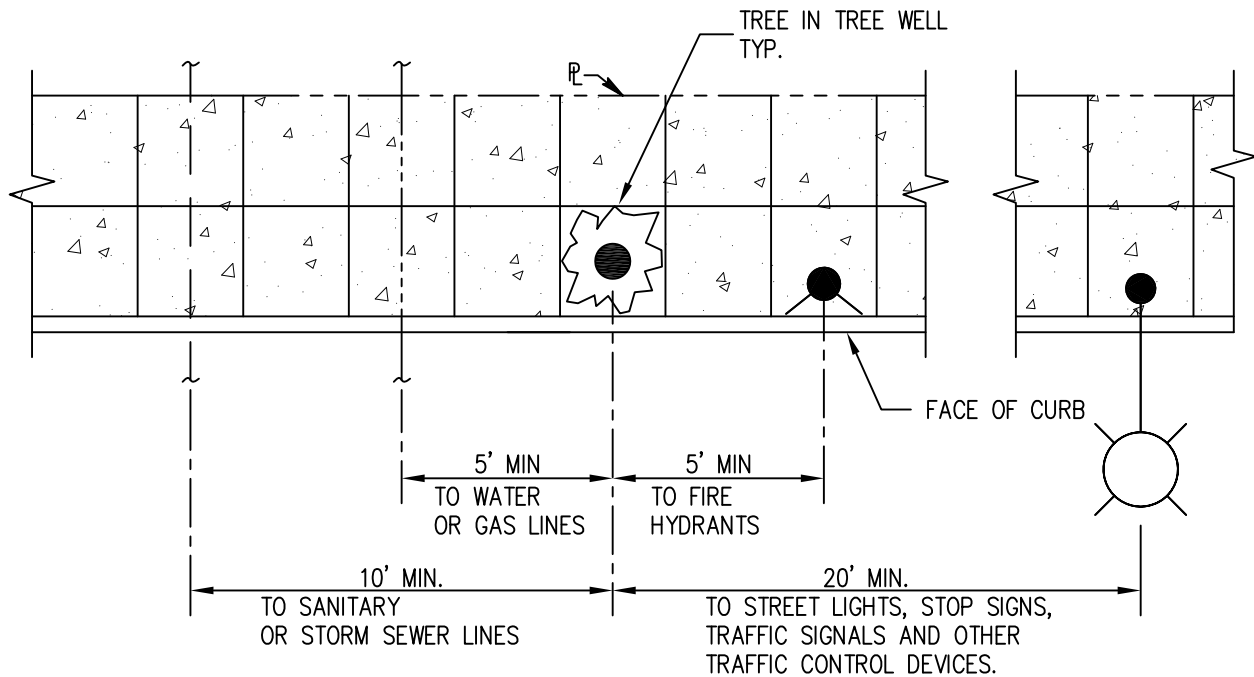
APPROVED BY  
  
DATE  
**10/16/2020**

**PAVER SIDEWALK  
CONFIGURATION DESIGN**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.  
**R-2B**



**NOTES**

1. CLEARANCES ABOVE APPLY TO MAINS OR SERVICES.
2. TREE TO TREE O.C. CLEARANCES SHALL BE A MINIMUM OF 35 FEET.
3. CLEARANCES ALSO APPLY TO STREET TREES IN DETACHED SIDEWALKS.
4. CLEARANCES SHOWN FROM UTILITY LINES ALSO APPLY TO STREET TREES IN MEDIAN ISLANDS
5. AVOID CONFLICTS WITH TREE CANOPIES OF EXISTING STREET TREES OR EXISTING TREES ON ADJACENT PRIVATE PROPERTY.
6. REFER TO CLEARANCE TABLE FOR A FULL LIST OF REQUIRED CLEARANCES.
7. REFER TO DETAIL R-2 FOR TREE WELL SIZING CRITERIA.
8. ANY DEVIATION FROM THE CLEARANCES SHOWN REQUIRE APPROVAL FROM THE CITY ENGINEER PRIOR TO CONSTRUCTION.

PLANTING CLEARANCE TABLE	
CLEARANCE TYPE	HORIZONTAL CLEARANCE
DRIVEWAYS (COMMERCIAL / MIXED-USE)	10
DRIVEWAYS (RESIDENTIAL)	5
FIRE HYDRANTS	5
GAS LINES	5
MOW BANDS AND FENCES	8
PEDESTRIAN / ORNAMENTAL LIGHTS	10
SANITARY SEWER LINES	10
SOUNDWALLS	8
STOP SIGNS AND OTHER TRAFFIC CONTROL DEVICES	20
STORM LINES	10
STORM CATCH BASIN	5
STREET CORNERS	40
STREET LIGHTS	20
SURVEY MONUMENTS	20
TRAFFIC SIGNALS	20
TREES	35
WATER LINES	5

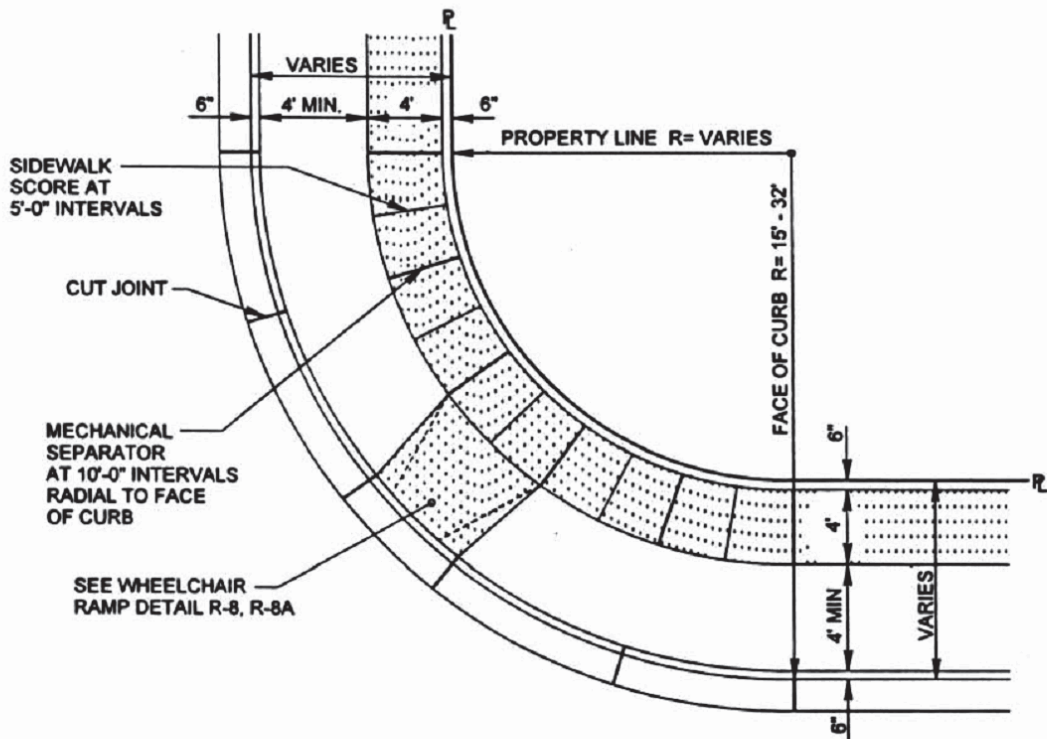
APPROVED BY  
  
 DATE  
 10/16/2020

**STREET TREE CLEARANCES**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.  
 R-2C



APPROVED BY

*CW*

DATE

7/5/01

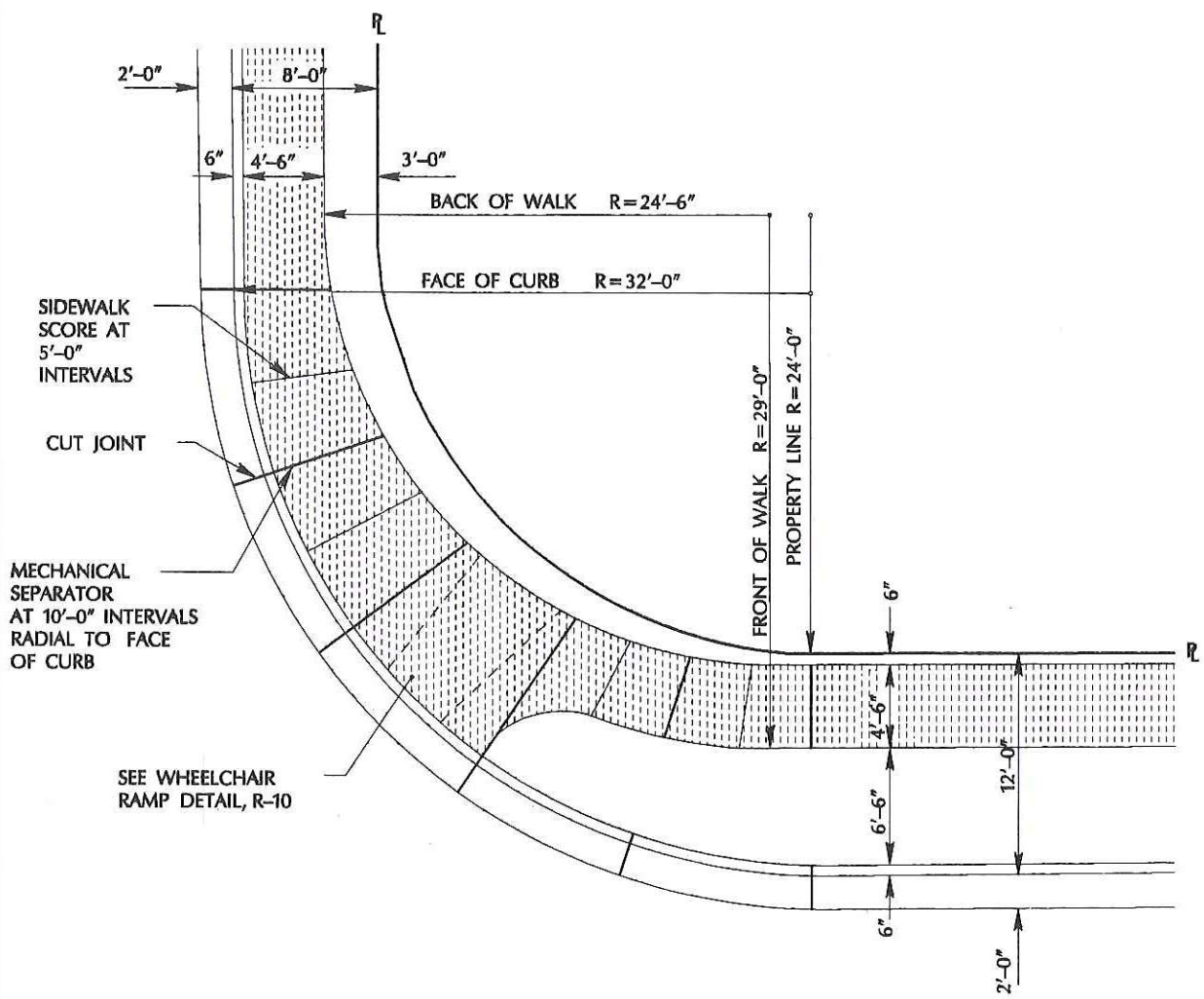
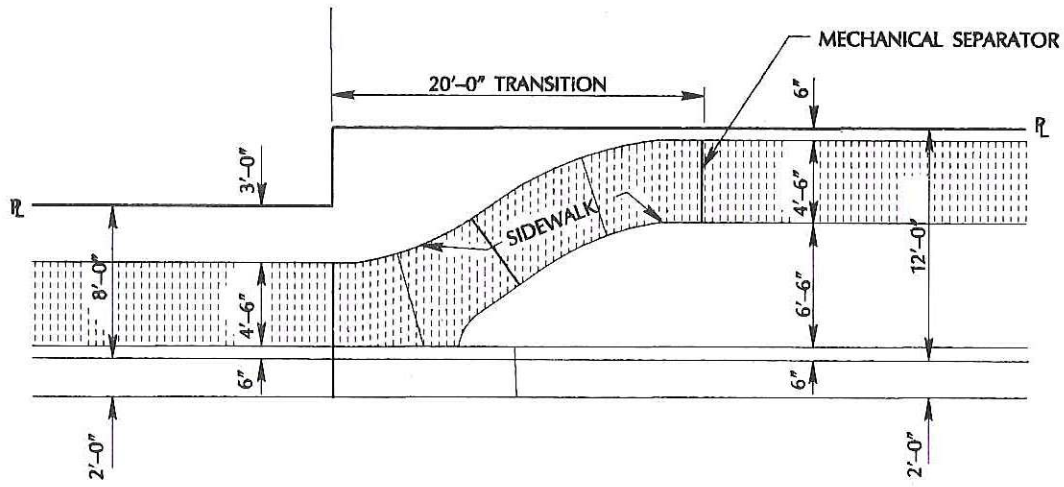
STANDARD RESIDENTIAL RETURN  
AND DETACHED SIDEWALKS

DEPARTMENT OF PUBLIC WORKS



DRAWING  
NO.

R-3



APPROVED BY  
*J B m*

DATE  
4/10/92

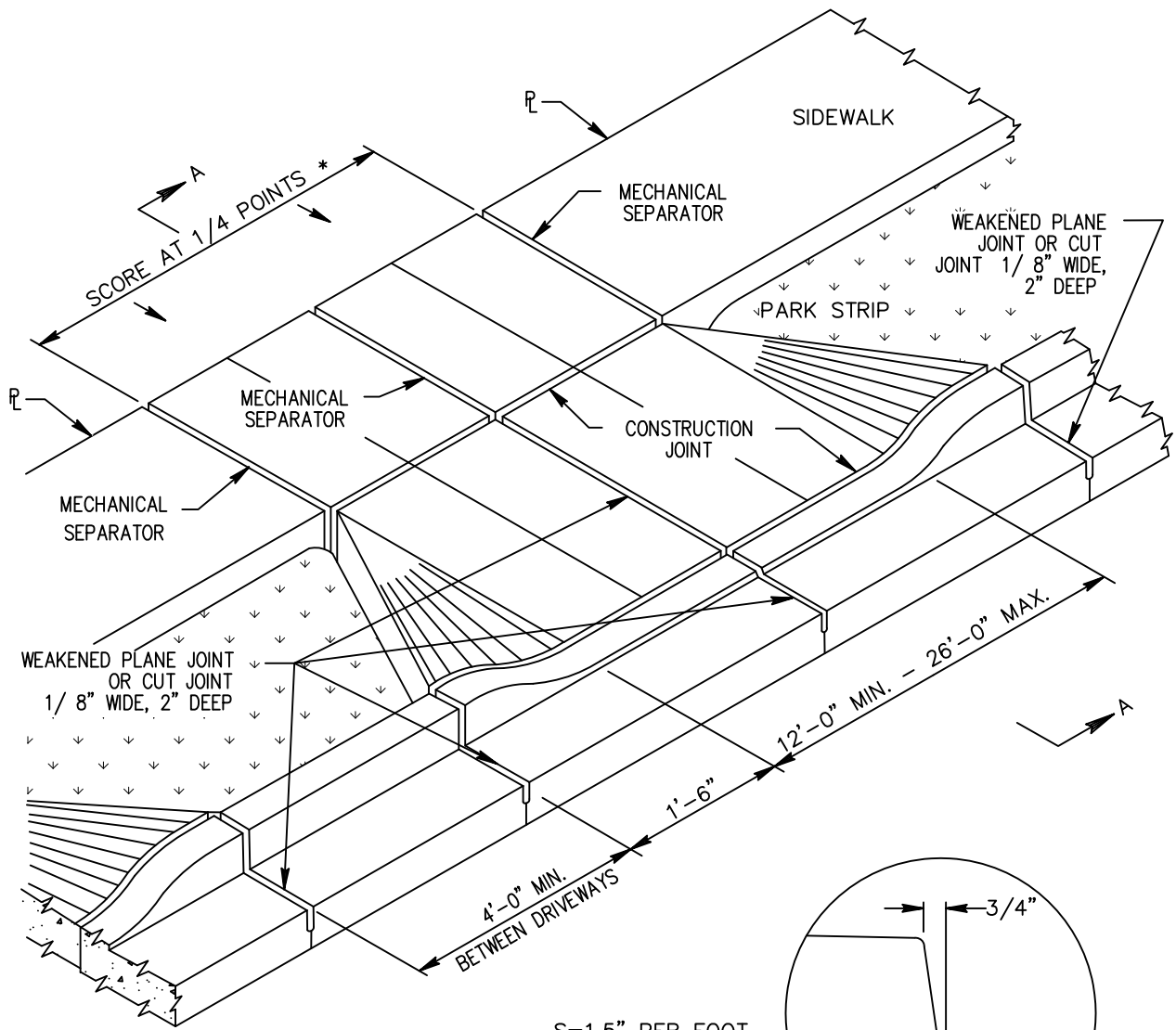
**SIDEWALK TRANSITIONS**  
**4'-6" ATTACHED SIDEWALK TO**  
**4'-6" DETACHED SIDEWALK**

DEPARTMENT OF PUBLIC WORKS

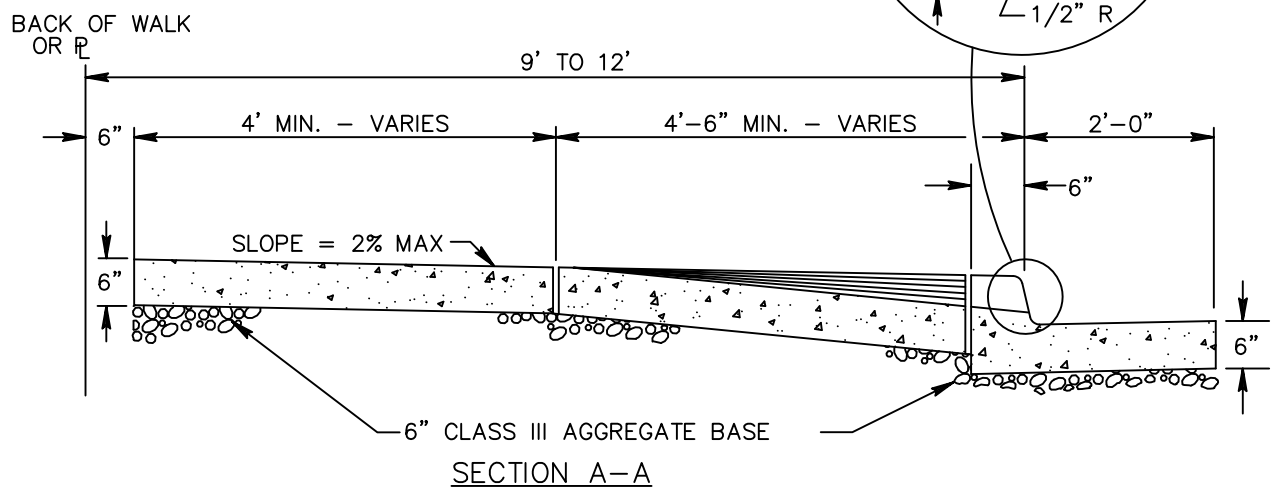
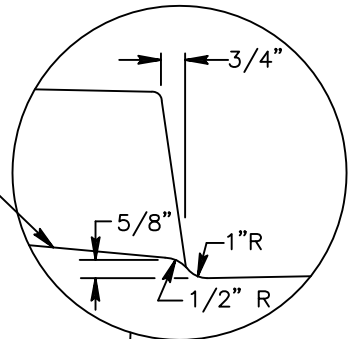


DRAWING NO.  
**R-4**





\* NOTE: SCORE MARKS NOT TO EXCEED 4'-0" O.C., USE MECHANICAL SEPARATOR AT EVERY OTHER SCORE MARK.

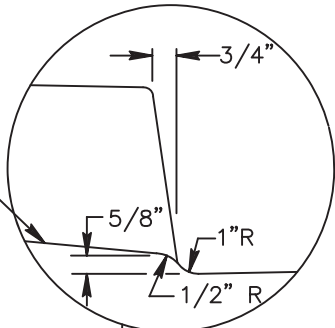
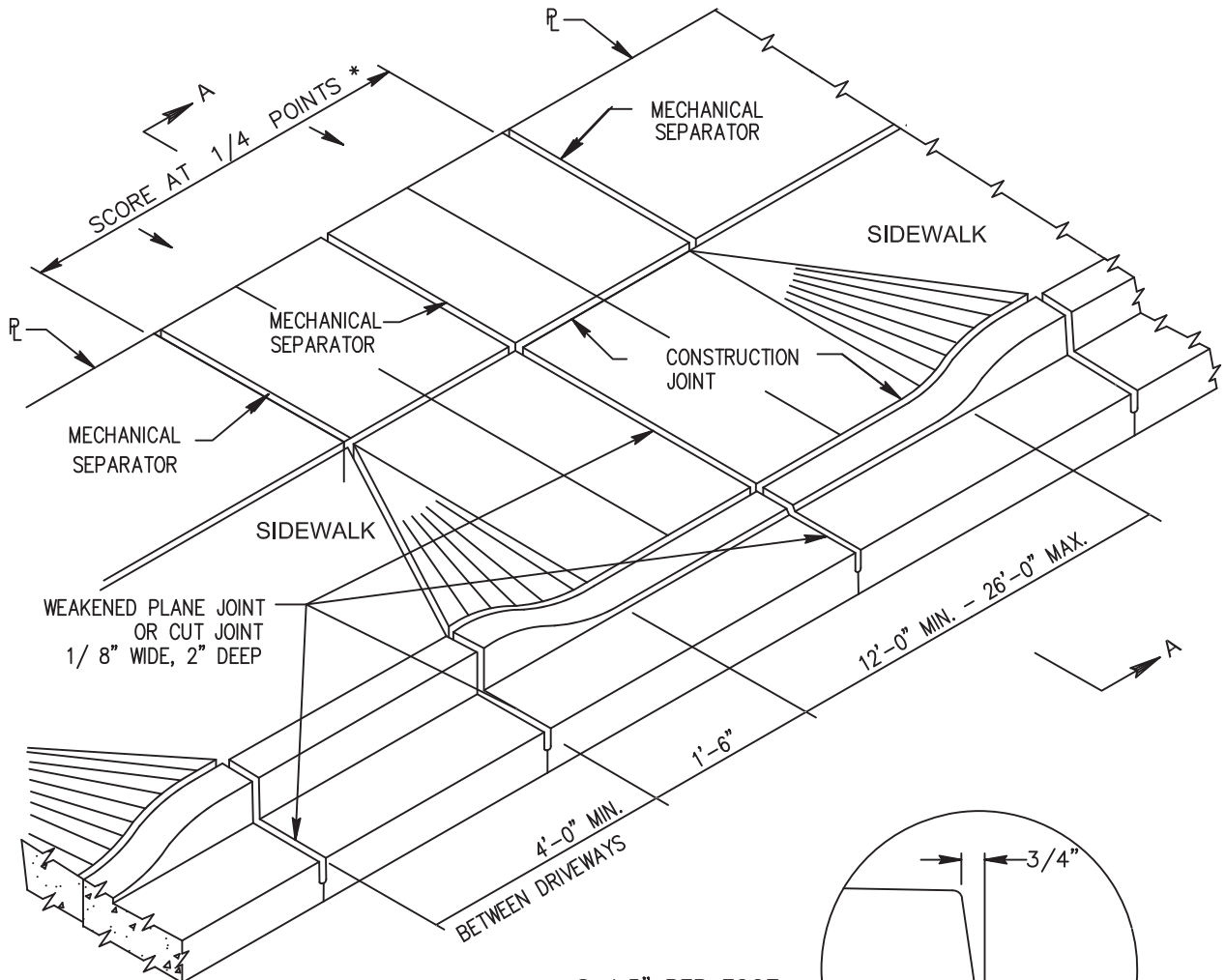


APPROVED BY  
*Jafk*  
 DATE  
 10/09/2020

**RESIDENTIAL DRIVEWAY  
 DETACHED SIDEWALK**  
 DEPARTMENT OF PUBLIC WORKS

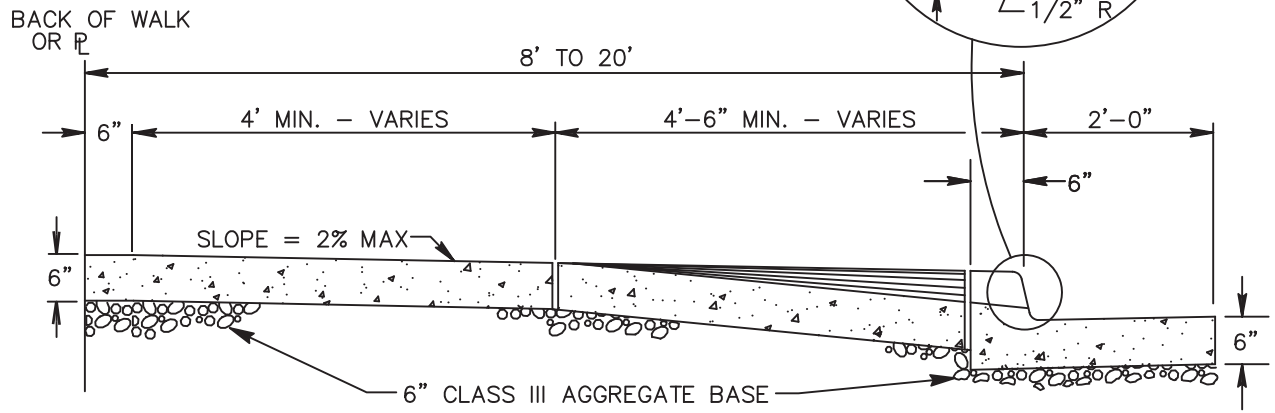


DRAWING NO.  
**R-5**





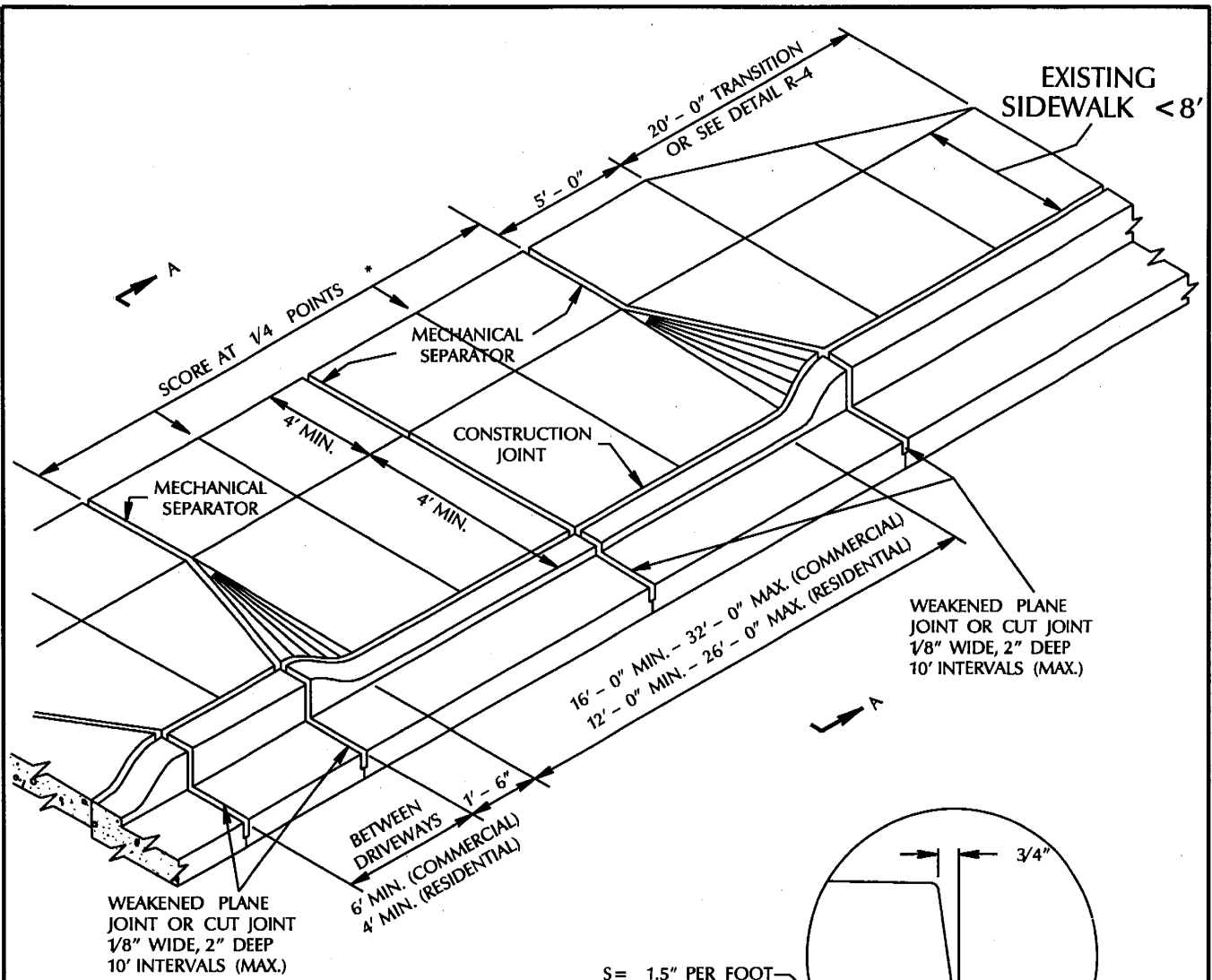
S=1.5" PER FOOT

\* NOTE: SCORE MARKS NOT TO EXCEED 4'-0" O.C., USE MECHANICAL SEPARATOR AT EVERY OTHER SCORE MARK.

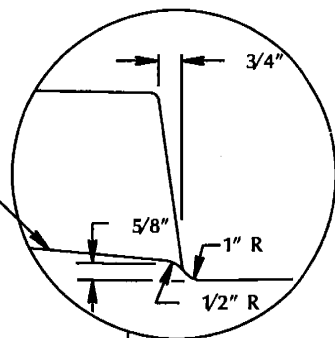


SECTION A-A

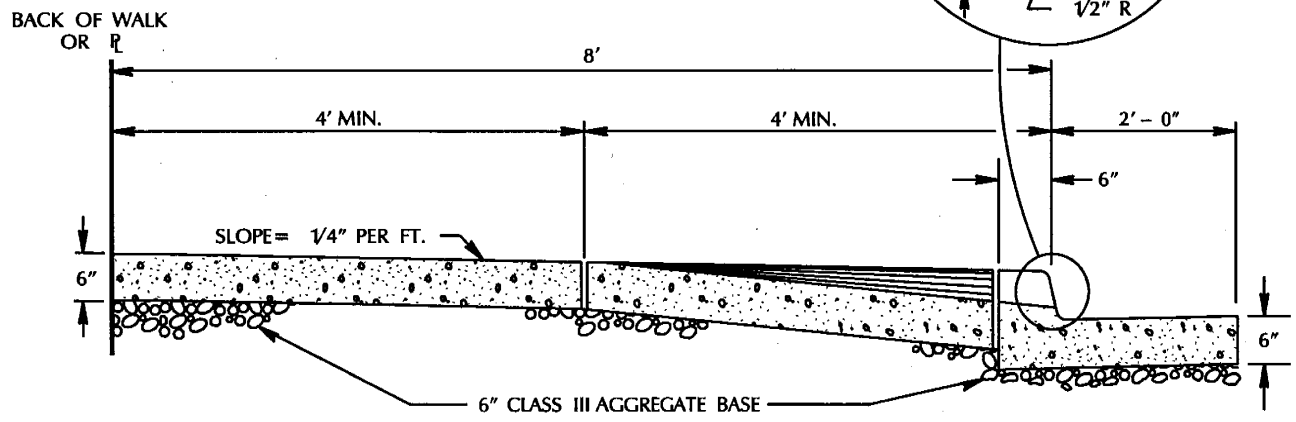
APPROVED BY 	<p style="text-align: center;"><b>RESIDENTIAL AND COMMERCIAL DRIVEWAY ATTACHED SIDEWALK (8' MIN)</b></p> <p style="text-align: center;">DEPARTMENT OF PUBLIC WORKS</p>		DRAWING NO. 
DATE <b>10/09/2020</b>			<b>R-6</b>



\* NOTE: SCORE MARKS NOT TO EXCEED 4'-0" O.C., USE MECHANICAL SEPARATOR AT EVERY OTHER SCORE MARK.

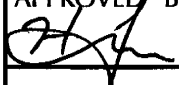



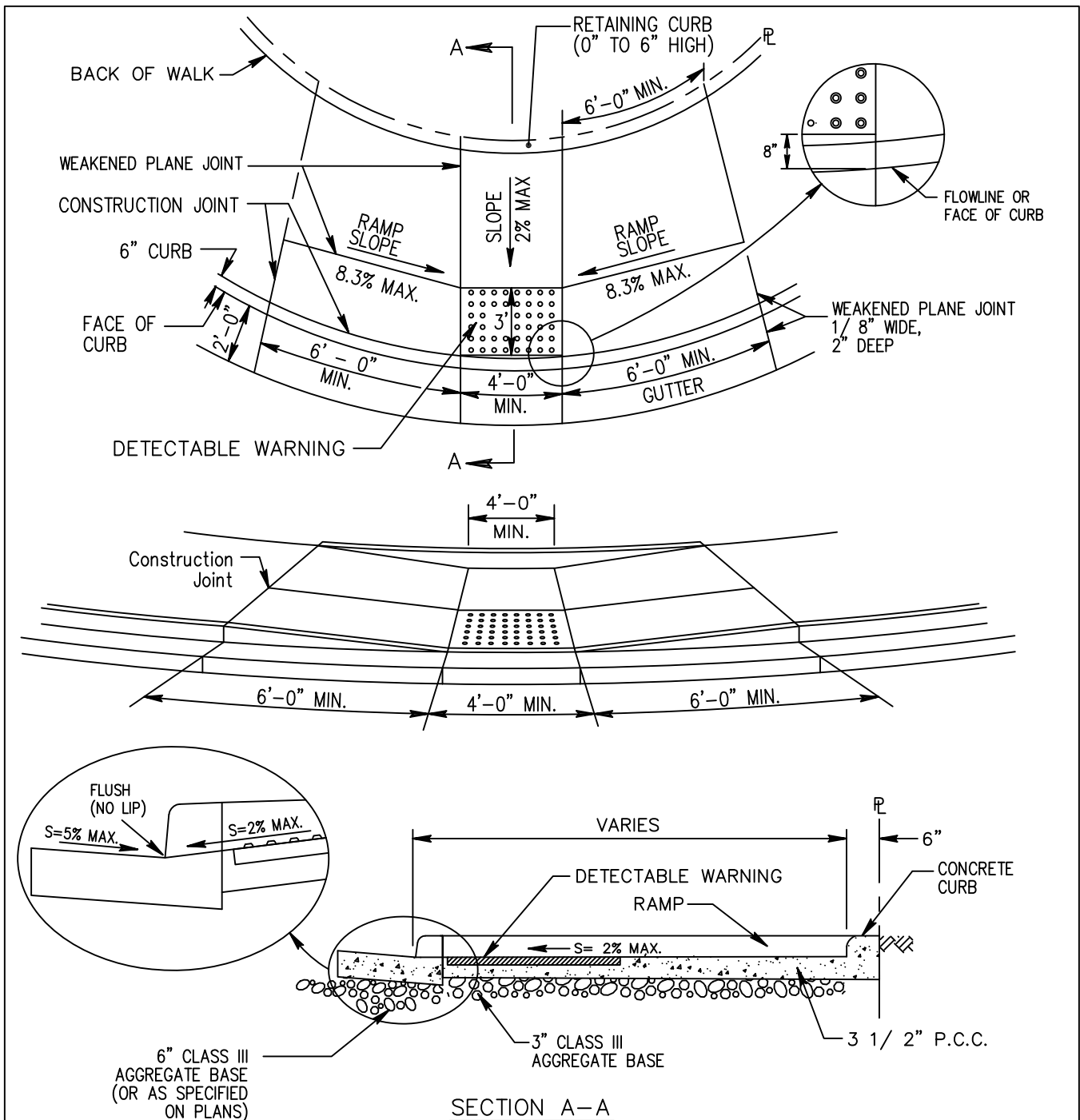
S = 1.5" PER FOOT



\*\* NOTE: SECTION A-A \*\*

ADDITIONAL ROW MAY BE REQUIRED.  
 ALTERNATIVE DRIVEWAY DESIGNS MEETING ADA REQUIREMENTS  
 ARE SUBJECT TO APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.

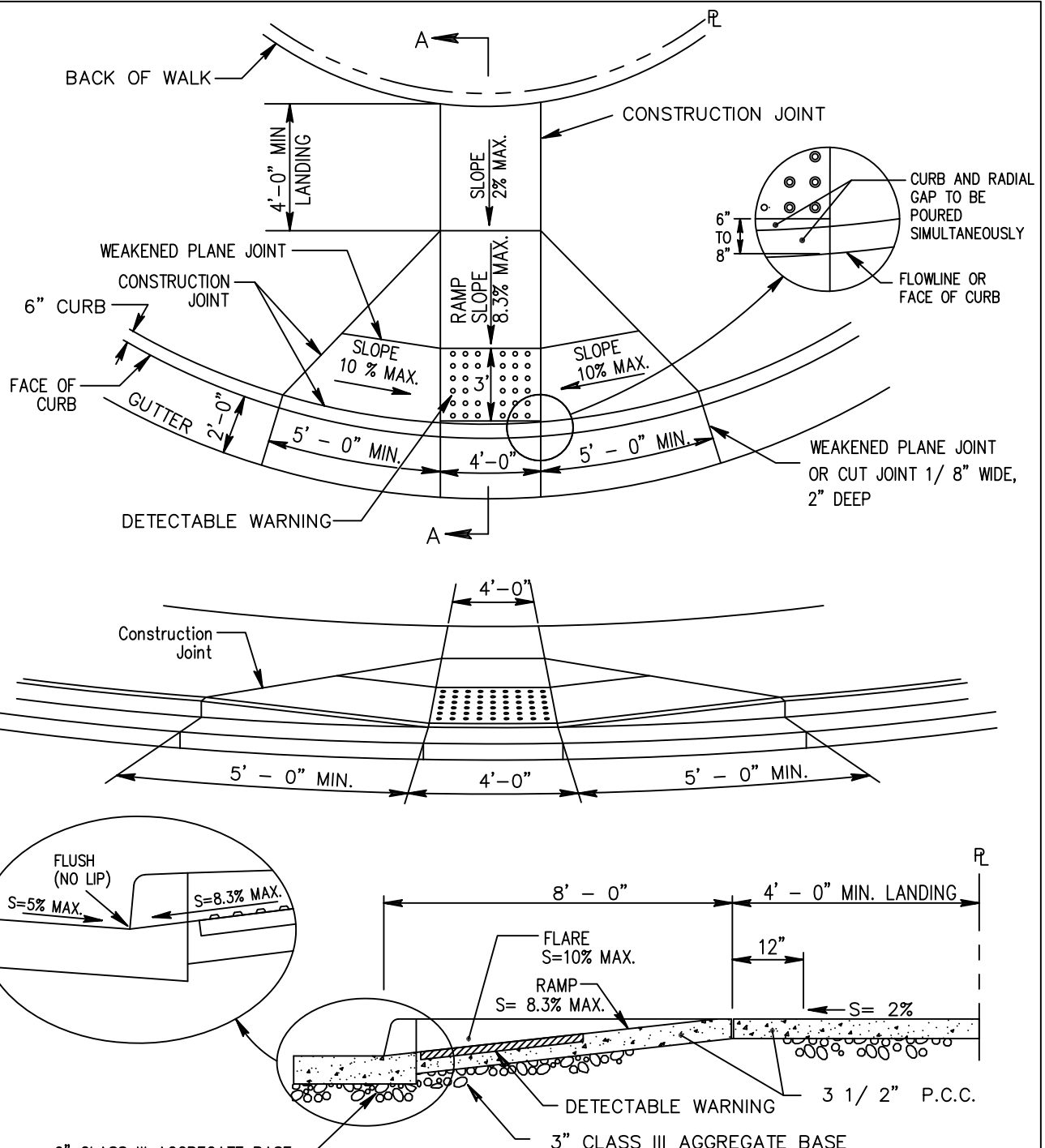
APPROVED BY 	<b>RESIDENTIAL AND COMMERCIAL DWY.</b> <b>(FOR EXISTING ATTACHED SIDEWALK &lt; 8')</b>		DRAWING NO.  
DATE <b>4-27-05</b>	<b>(For Retrofit Only)</b> DEPARTMENT OF PUBLIC WORKS		<b>R-7</b>



**NOTES:**

1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. DETECTABLE WARNING SHALL BE BLACK REPLACABLE COMPOSITE TACTILE DOME PANELS. FOR DETECTABLE WARNING MATERIALS LIST, REFER TO: <https://www.sanjoseca.gov/home/showpublisheddocument?id=20025>
3. TRUNCATED DOMES SHALL BE ALIGNED AS SHOWN ON THIS DETAIL.
4. WORK THAT EXCEEDS A MAXIMUM SLOPE OR A MINIMUM DIMENSION WILL NOT BE ACCEPTED. ALLOWANCE FOR CONSTRUCTION TOLERANCES WILL NOT BE CONSIDERED.

APPROVED BY 	<b>WHEELCHAIR RAMP CENTER OF RETURN, LESS THAN 12' WIDE SIDEWALK CORRIDOR</b>	 <b>CITY OF SAN JOSE</b> <small>CAPITAL OF SILICON VALLEY</small>	DRAWING NO.  <b>R-10</b>
DATE <b>02/08/2021</b>	DEPARTMENT OF PUBLIC WORKS		



SECTION A-A

NOTES:

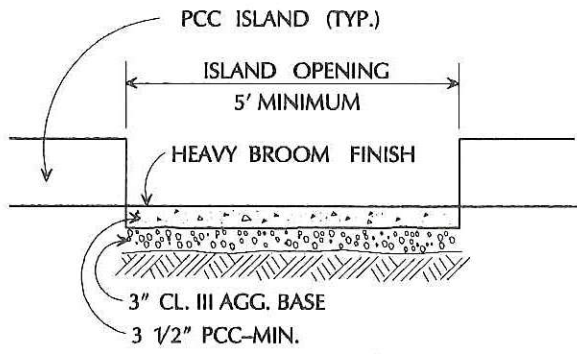
1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. DETECTABLE WARNING SHALL BE BLACK REPLACABLE COMPOSITE TACTILE DOME PANELS. FOR DETECTABLE WARNING MATERIALS LIST, REFER TO: <https://www.sanjoseca.gov/home/showpublisheddocument?id=20025>
3. TRUNCATED DOMES SHALL BE ALIGNED AS SHOWN ON THIS DETAIL.
4. WORK THAT EXCEEDS A MAXIMUM SLOPE OR A MINIMUM DIMENSION WILL NOT BE ACCEPTED. ALLOWANCE FOR CONSTRUCTION TOLERANCES WILL NOT BE CONSIDERED.

APPROVED BY  
*[Signature]*  
DATE  
02/08/2021

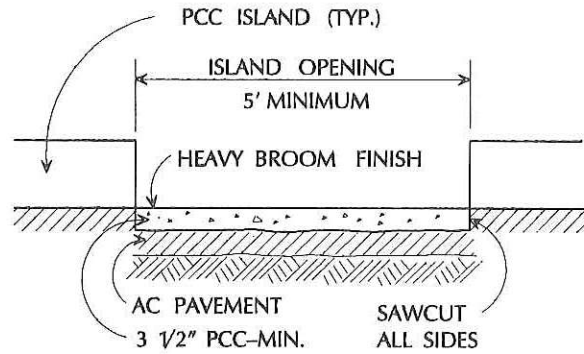
**WHEELCHAIR RAMP  
CENTER OF RETURN,  
12' OR WIDER SIDEWALK CORRIDOR**  
DEPARTMENT OF PUBLIC WORKS



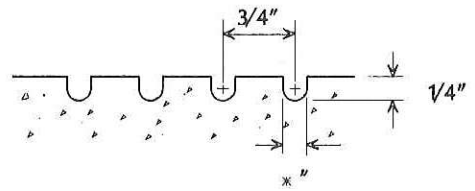
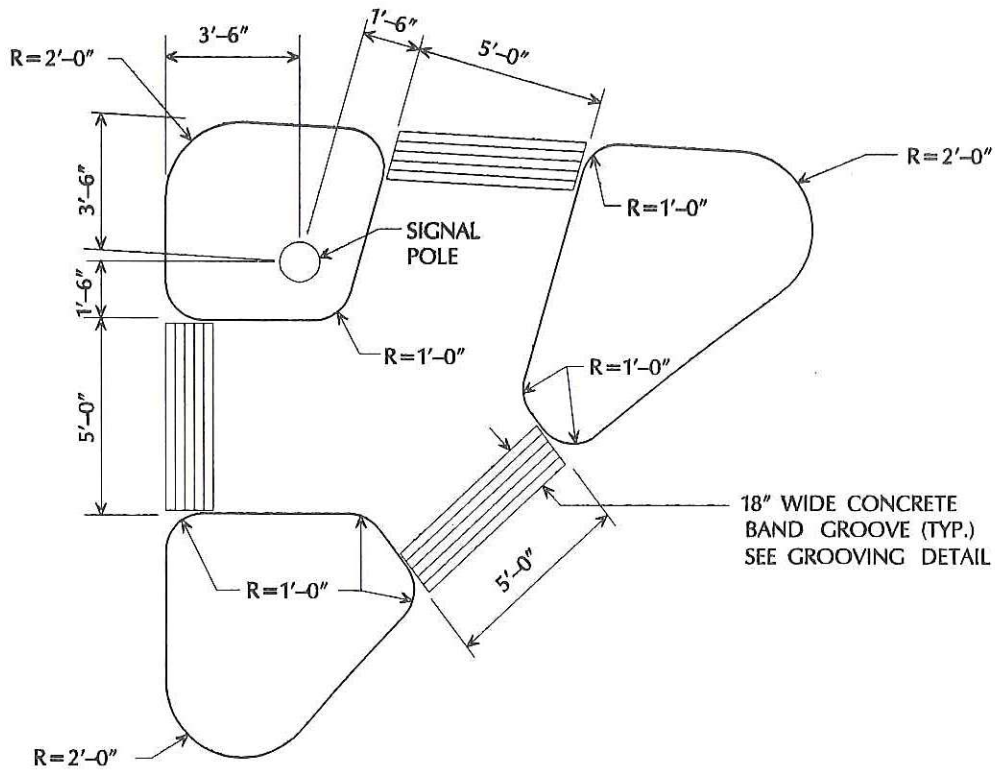
DRAWING NO.  
**R-11**



CONCRETE BAND  
ON-GRADE DETAIL



CONCRETE BAND ON  
EXISTING AC DETAIL



GROOVING DETAIL

APPROVED BY

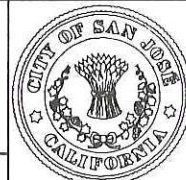
*JPM*

DATE

4/10/11

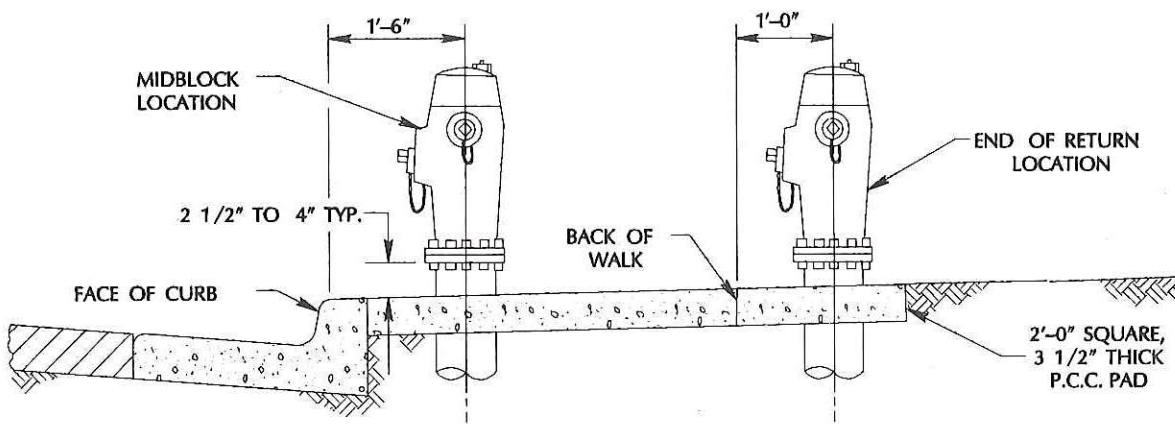
TRAFFIC ISLAND  
WALKWAY DETAIL

DEPARTMENT OF PUBLIC WORKS

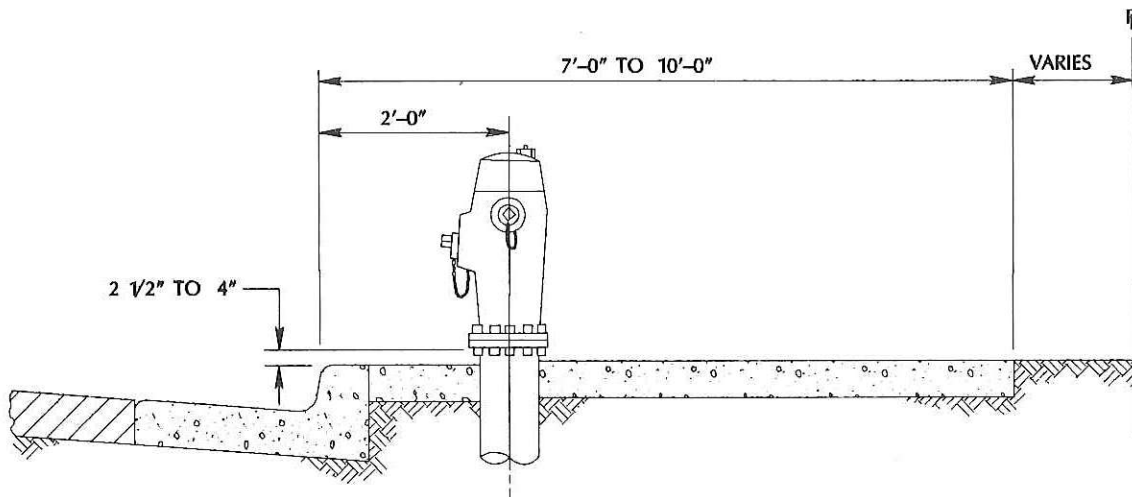


DRAWING  
NO.

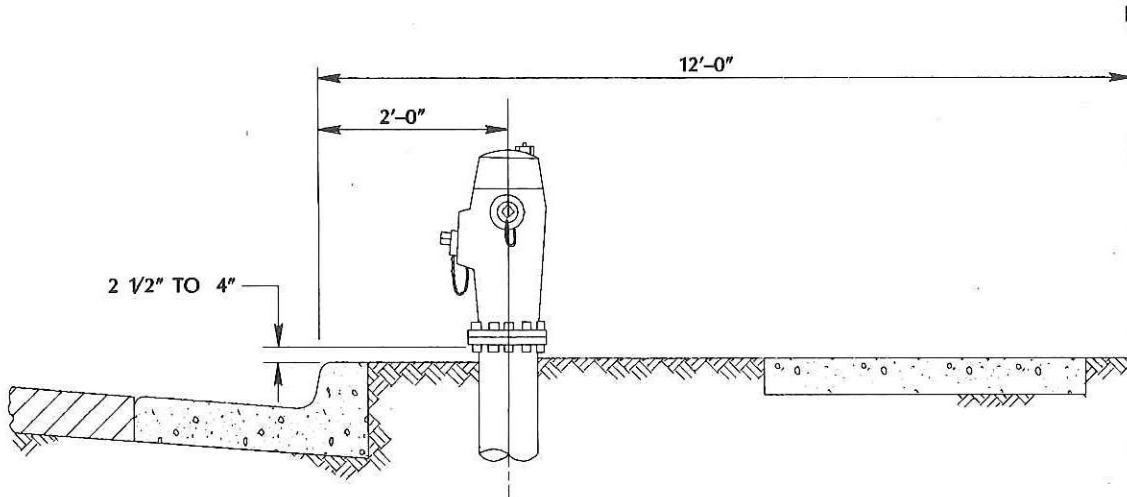
R-12



**4'-6" ATTACHED RESIDENTIAL SIDEWALK**

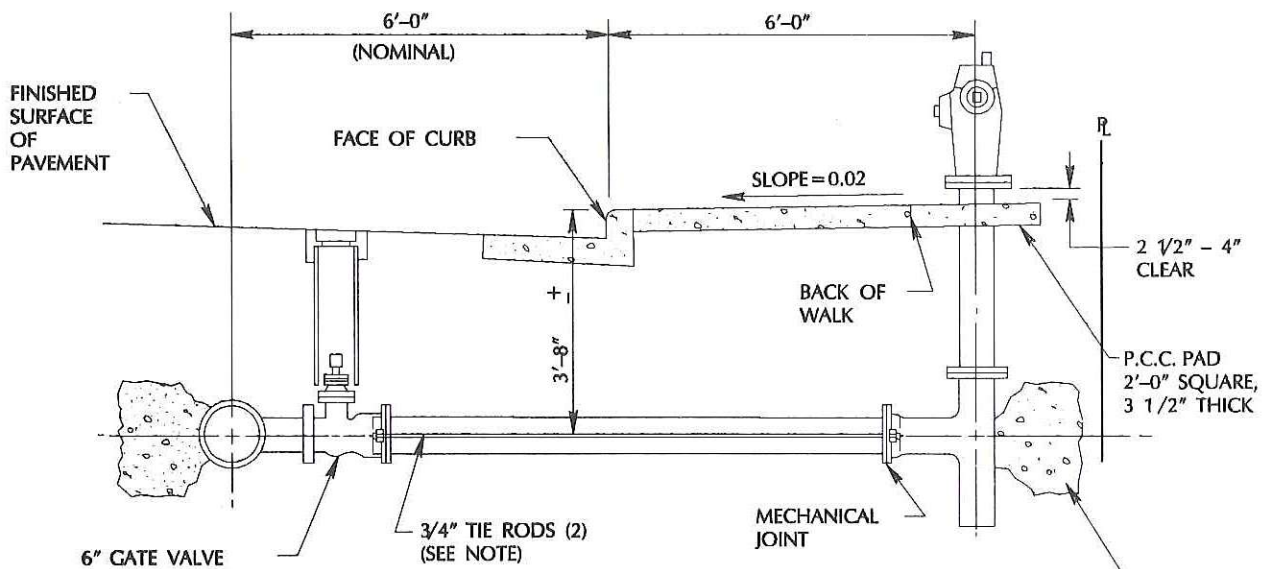
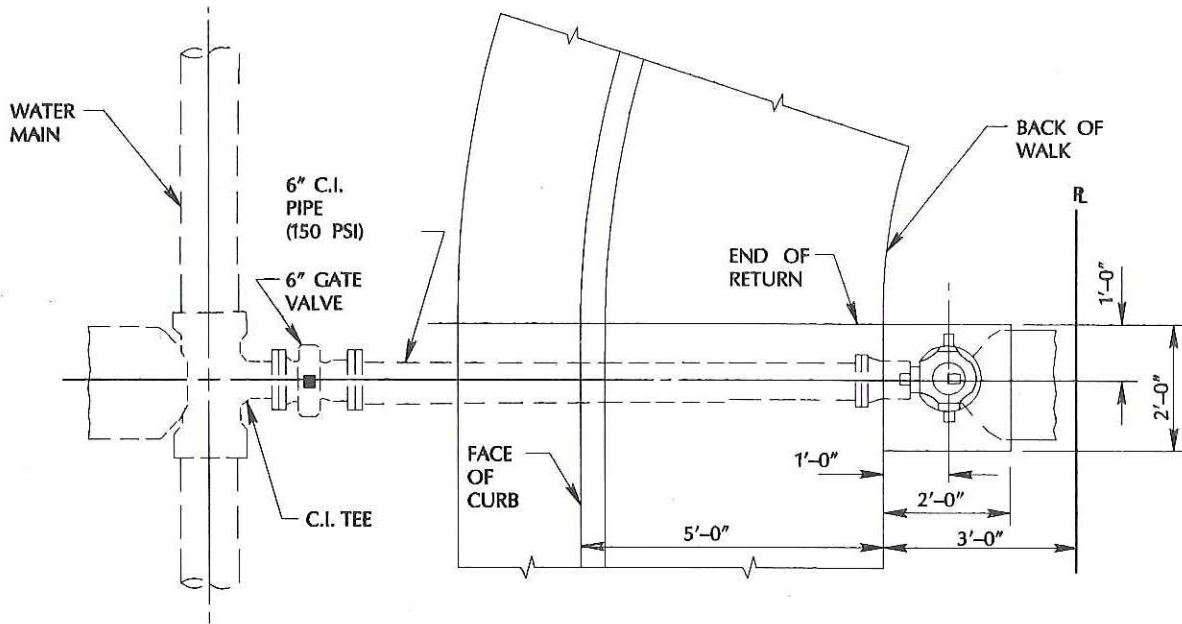


**WIDE ATTACHED SIDEWALKS**



**DETACHED SIDEWALK**

APPROVED BY <i>JDM</i>	<b>FIRE HYDRANT LOCATIONS</b>		DRAWING NO.
DATE 4/10/92			<b>R-13</b>
DEPARTMENT OF PUBLIC WORKS			



**NOTE:**

TIE RODS TO BE INSTALLED IF HYDRANT TEE THRUST BLOCK IS BEARING ON DISTURBED SOIL.

APPROVED BY  
*JDM*

DATE  
4/10/92

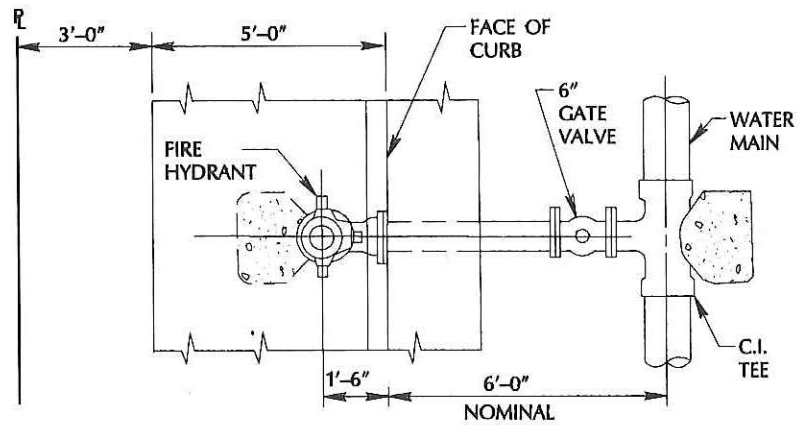
**ATTACHED RESIDENTIAL SIDEWALK  
FIRE HYDRANT INSTALLATION-  
END OF RETURN**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.  
**R-14**

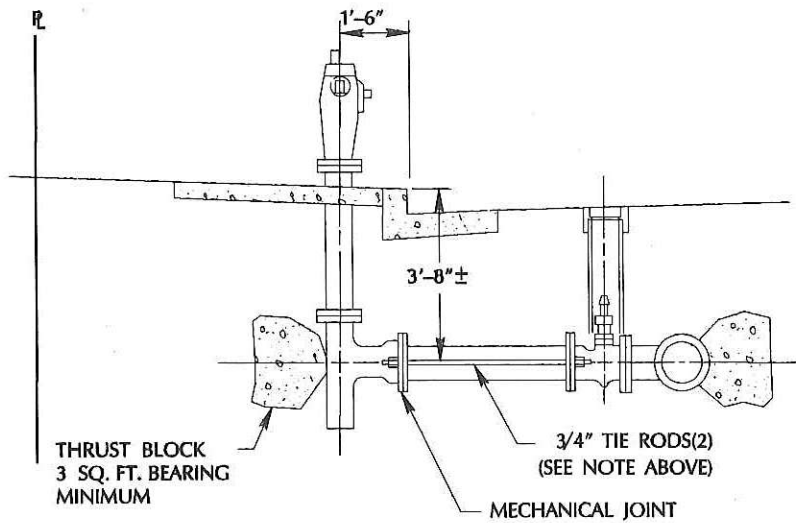




PLAN

NOTE:

TIE RODS TO BE  
 INSTALLED IF HYDRANT  
 TEE THRUST BLOCK  
 IS BEARING ON  
 DISTURBED SOIL.



PROFILE

STRAIGHT LATERAL

APPROVED BY

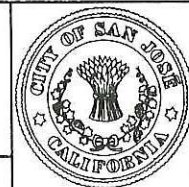
*J.D.M.*

DATE

4/10/92

**ATTACHED RESIDENTIAL SIDEWALK  
 FIRE HYDRANT  
 INSTALLATION—MID BLOCK**

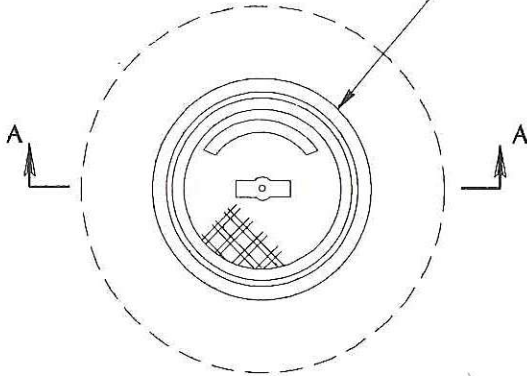
DEPARTMENT OF PUBLIC WORKS



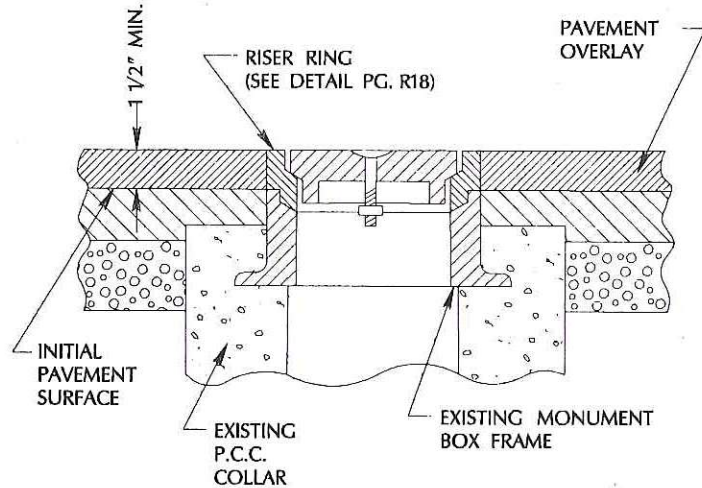
DRAWING  
 NO.

R-15

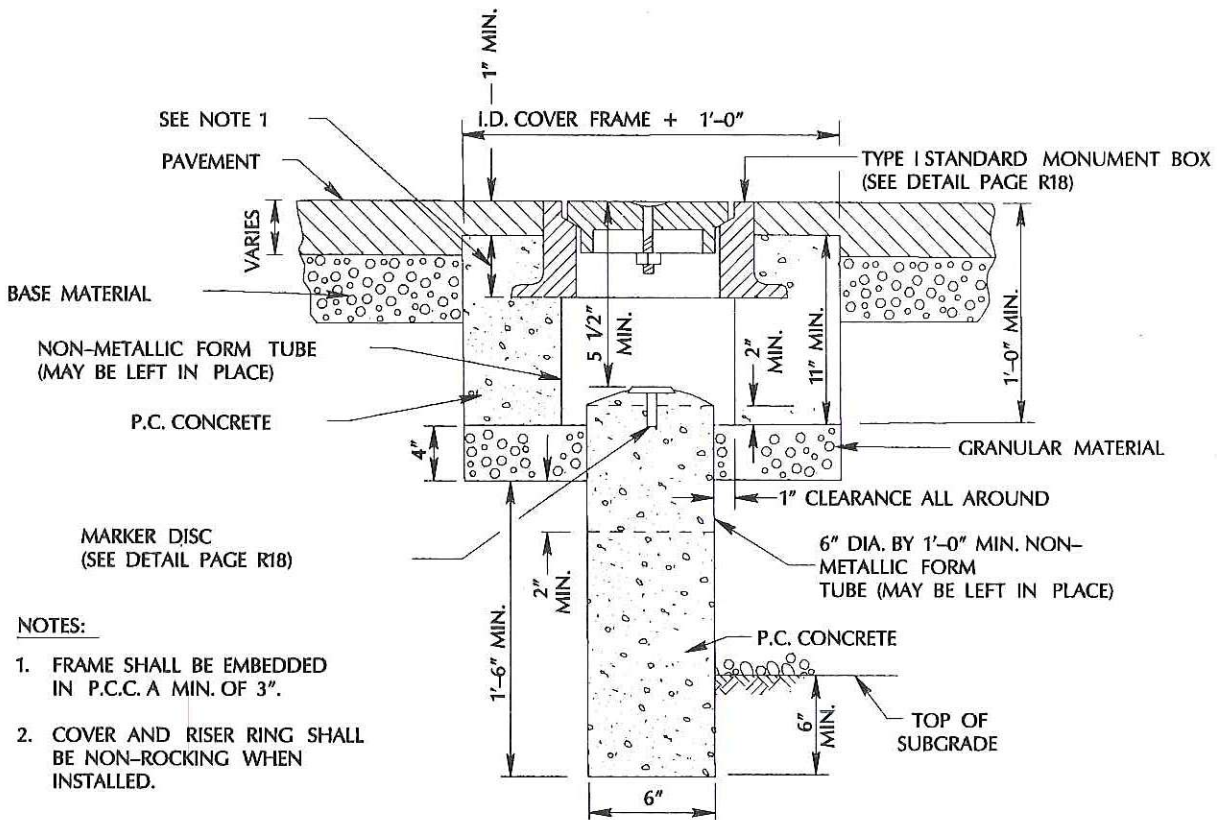
MONUMENT BOX  
FRAME SHALL BE  
FLUSH WITH  
SURROUNDING PAVEMENT



COVER INSTALLATION  
PLAN VIEW



SECTION A-A  
STANDARD MONUMENT, RESURFACE  
WITH EXISTING ROUND BOX



NOTES:

1. FRAME SHALL BE EMBEDDED IN P.C.C. A MIN. OF 3".
2. COVER AND RISER RING SHALL BE NON-ROCKING WHEN INSTALLED.

SECTION A  
STANDARD MONUMENT INITIAL INSTALLATION

APPROVED BY

*JNM*

DATE

4/10/92

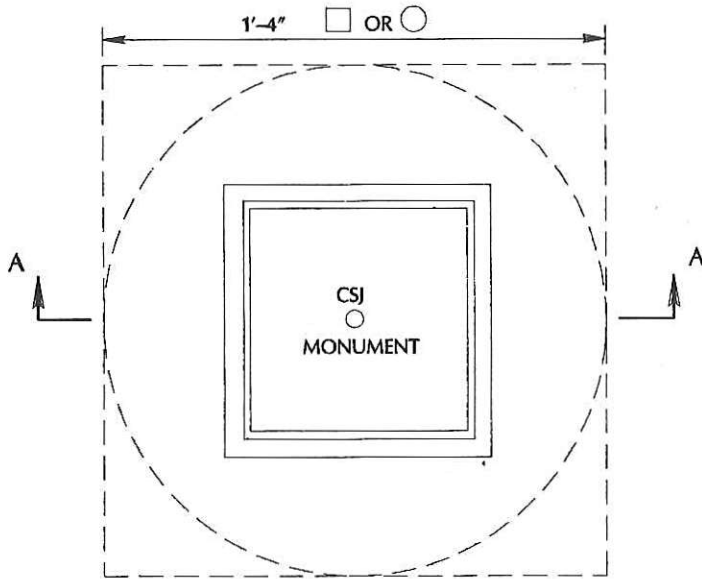
**STANDARD CITY MONUMENT**

DEPARTMENT OF PUBLIC WORKS



DRAWING  
NO.

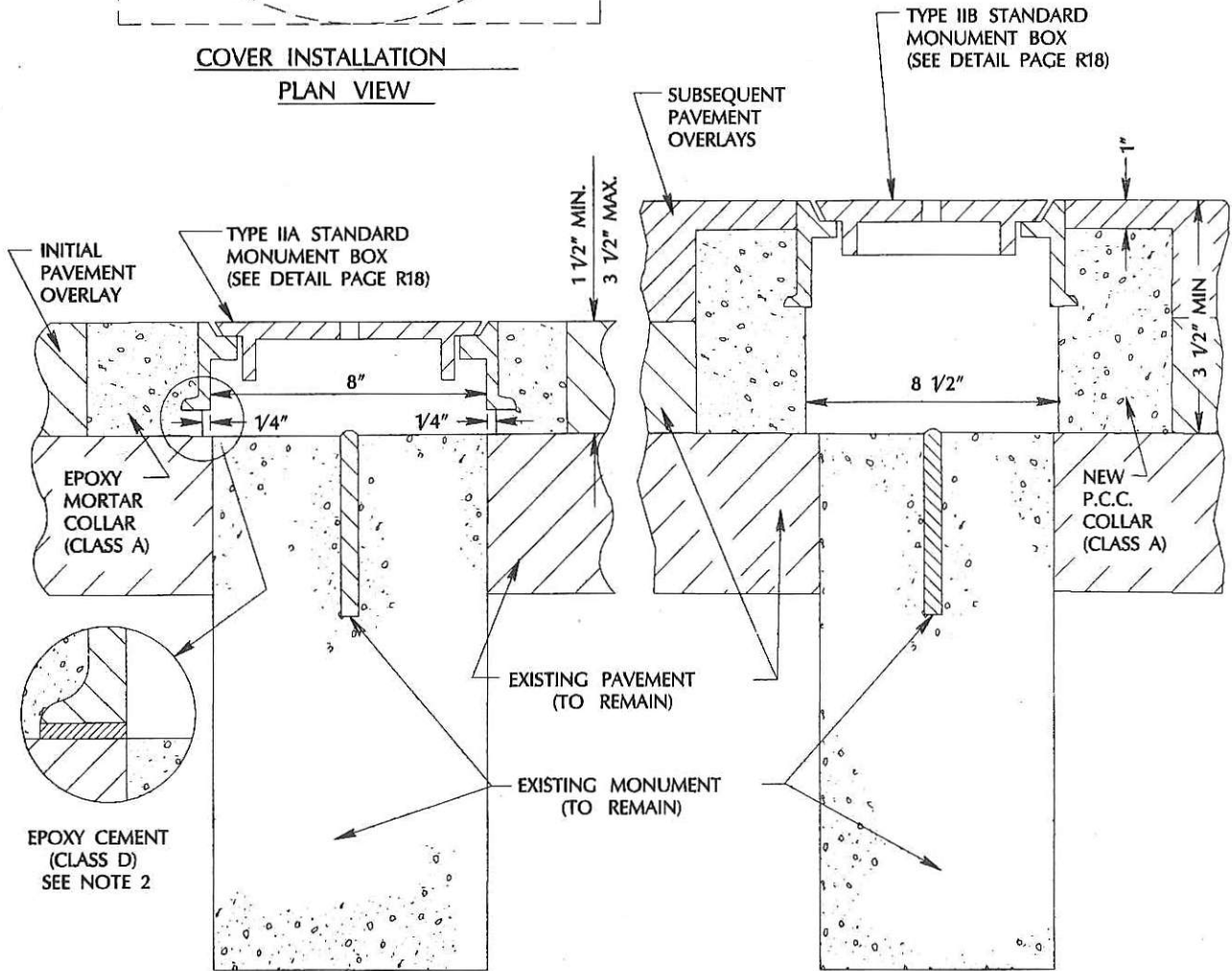
**R-16**



**COVER INSTALLATION  
PLAN VIEW**

**NOTES:**

1. TYPE IIB BOX SHALL BE USED FOR OVERLAYS OVER 3 1/2" ABOVE INITIAL ROADWAY SURFACE.
2. IF OVERLAY IS 1 1/2" TO 1 3/4" THEN EPOXY CEMENT SHALL BE USED TO SECURE THE BOX TO THE PAVEMENT SURFACE.



**SECTION A-A  
INITIAL OVERLAY**

**SECTION A-A  
SUBSEQUENT OVERLAYS**

APPROVED BY  
*JDM*

DATE  
4/10/92

**TYPE II STANDARD MONUMENT BOX  
INSTALLATION/ADJUSTMENT DETAIL**

DEPARTMENT OF PUBLIC WORKS

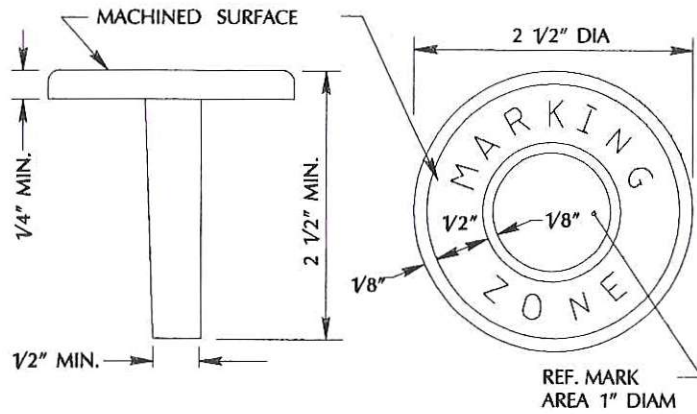


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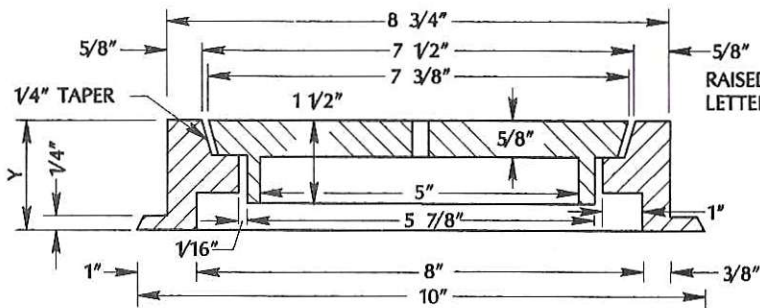
R-17

**NOTES:**

1. MARKINGS IN ACCORDANCE WITH THE L.S. ACT SHALL BE A MINIMUM OF 3/16" SIZED LETTERS AND NUMBERS LEGIBLY STAMPED WITHIN THE DESIGNATED "MARKING ZONE".
2. REFERENCE MARK SHALL BE PLACED WITHIN A 1" DIAMETER OF THE CENTER OF DISC.
3. SHANK SHALL BE CONSTRUCTED IN A MANNER WHICH PREVENTS REMOVAL OR TURNING ONCE SET IN CONCRETE.

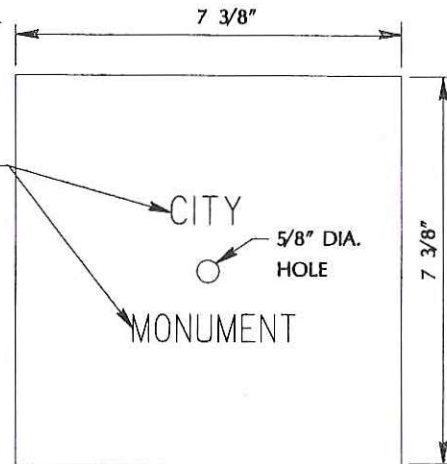


**BRASS MARKER DISC**



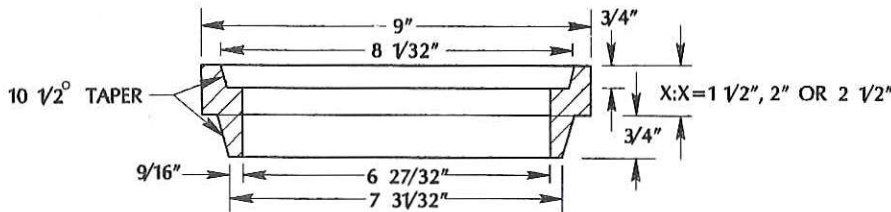
TYPE IIA - Y = 1 1/2"  
 TYPE IIB - Y = 3"

**SECTION-FRAME AND COVER**

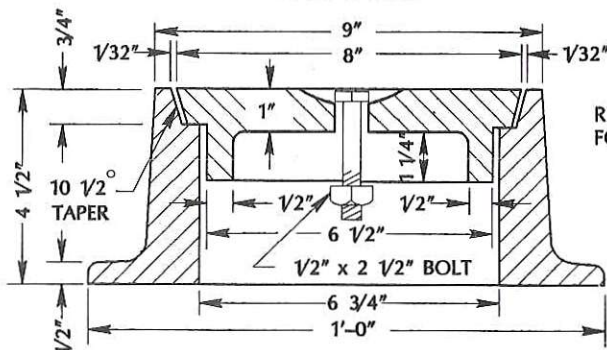


**COVER DETAIL**

**TYPE II MONUMENT BOX**



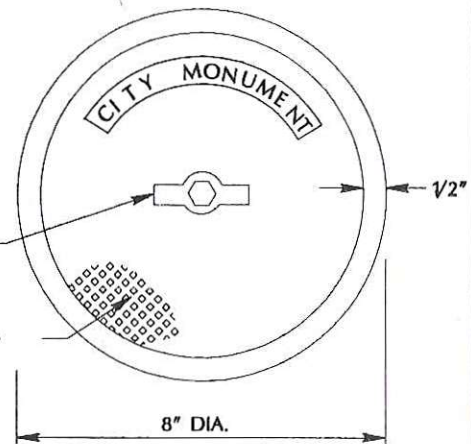
**SECTION-RISER RING**



**SECTION-FRAME AND COVER**

RECESSED AREA FOR LIFTING BOLT

NON-SKID TREAD



**COVER DETAIL**

**TYPE I MONUMENT BOX**

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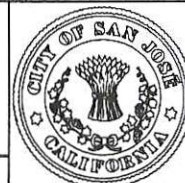
*JDM*

DATE

4/10/92

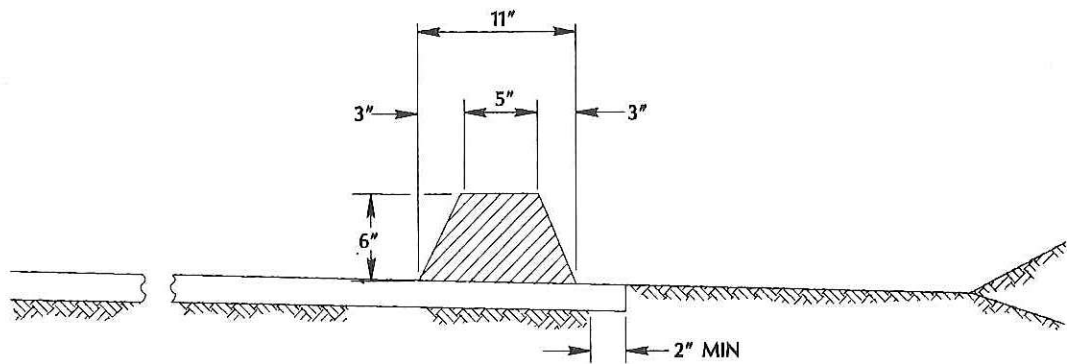
**STANDARD MONUMENT BOXES AND  
 MARKER DISC CASTING DETAILS**

DEPARTMENT OF PUBLIC WORKS

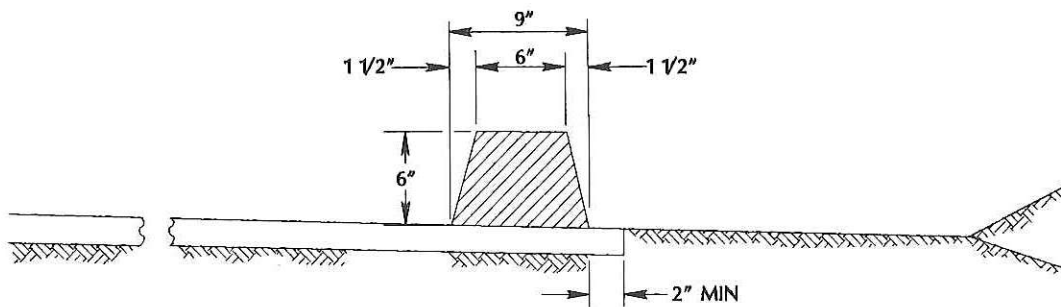


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R-18



TYPE A



TYPE B

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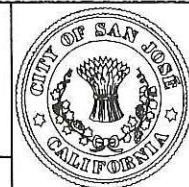
*J. D. [Signature]*

DATE

*4/10/92*

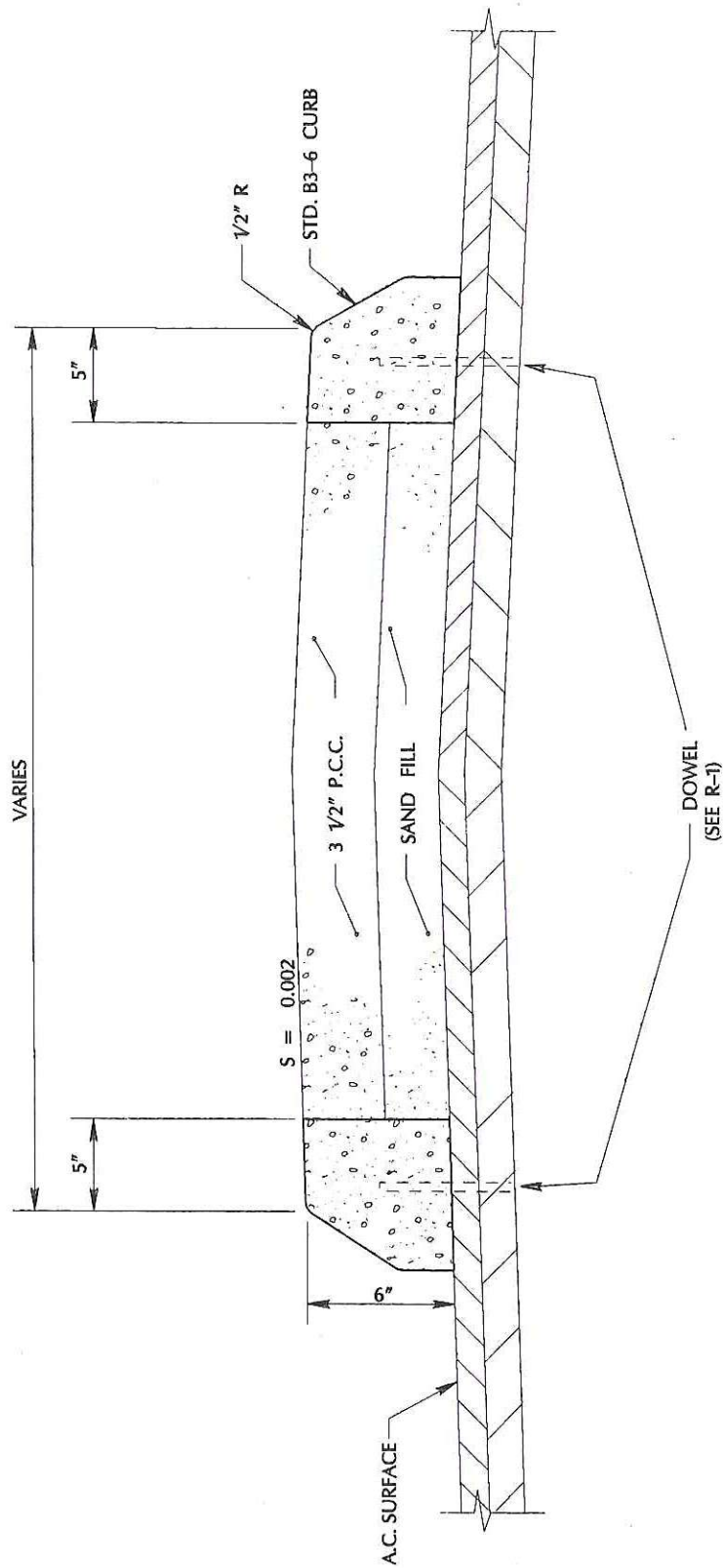
**ASPHALT CONCRETE DIKE/BERM**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.

**R-19**

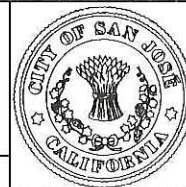


APPROVED BY  
*J.D.M.*

DATE  
 4/10/14

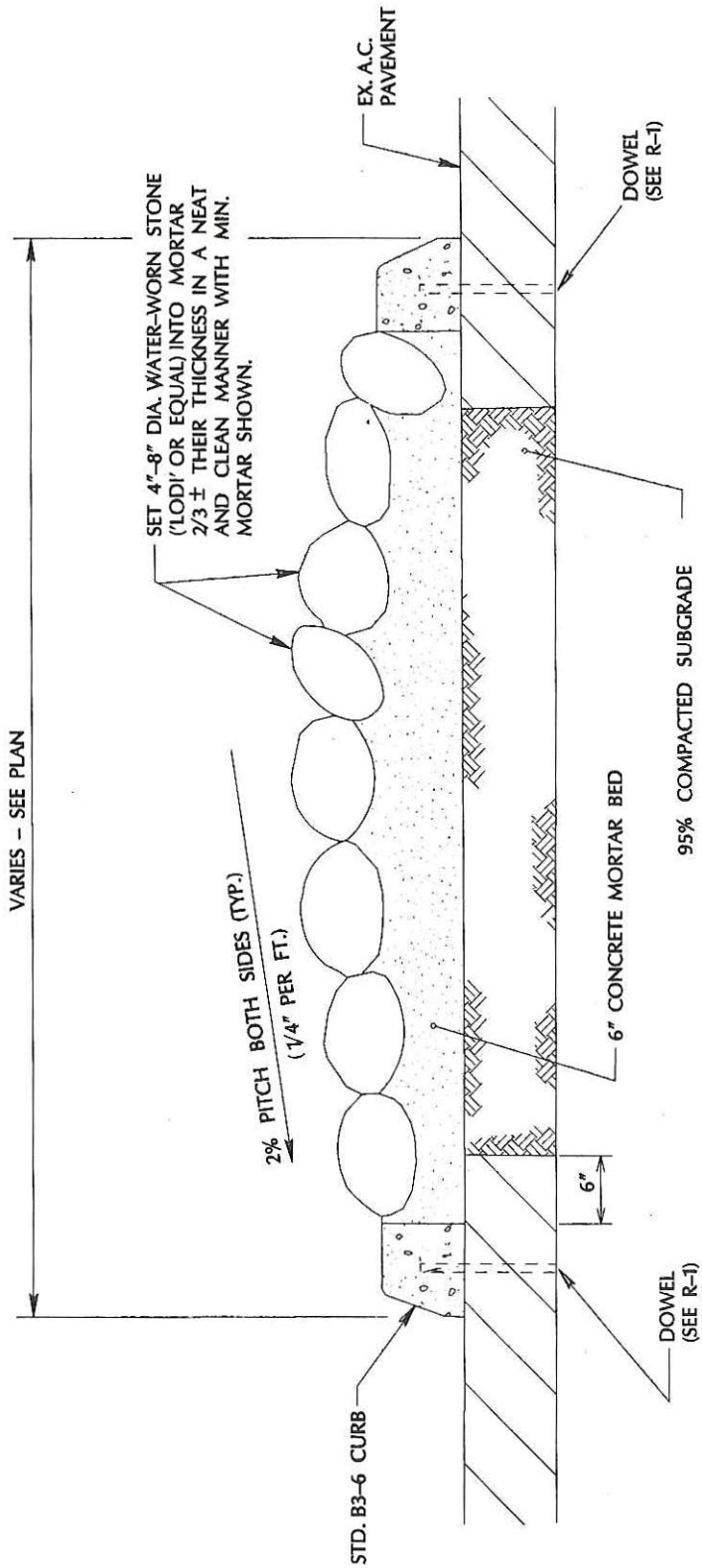
**PAVED MEDIAN ISLAND**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.

**R-20**



**NOTE:**

1. AFTER THE COBBLESTONE HAS BEEN SET INTO THE MORTAR, THE EXCESSIVE MORTAR IN BETWEEN THE JOINTS OF THE COBBLESTONES SHALL BE CAREFULLY REMOVED AND RAKED IN A SMOOTH JOINT (NO PROTRUSION OF MORTAR WILL BE ALLOWED).
2. SEAL FINAL SURFACE WITH WATER SEALER.

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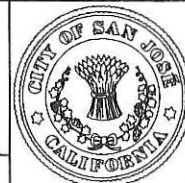
*J. K. ...*

DATE

4/10/12

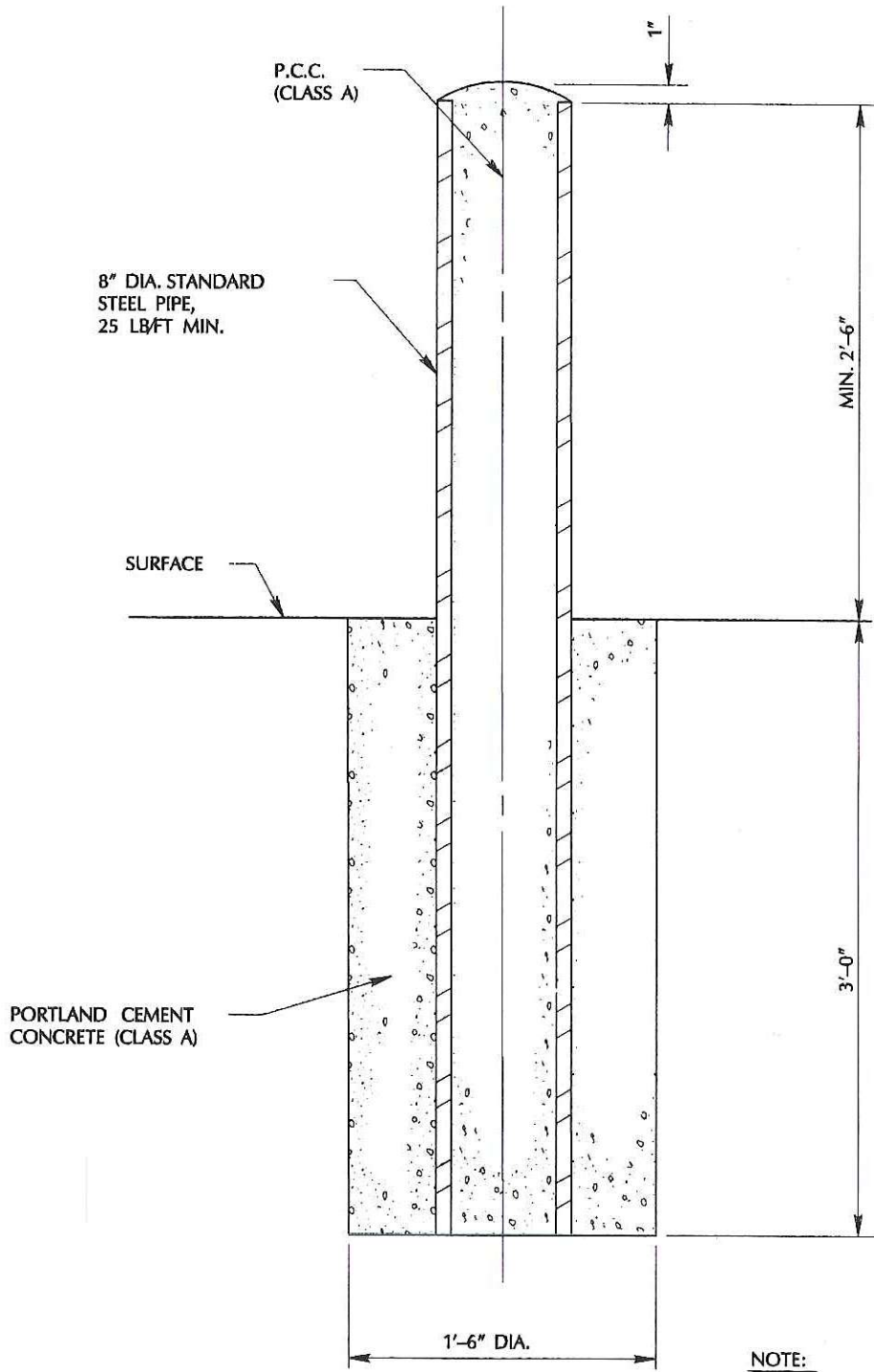
**COBBLESTONE MEDIAN ISLAND**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.

R-21



NOTE:  
 PAINT SAME AS  
 ADJACENT FACILITY  
 BEING PROTECTED

APPROVED BY  
*Jdm*

DATE  
 4/10/92

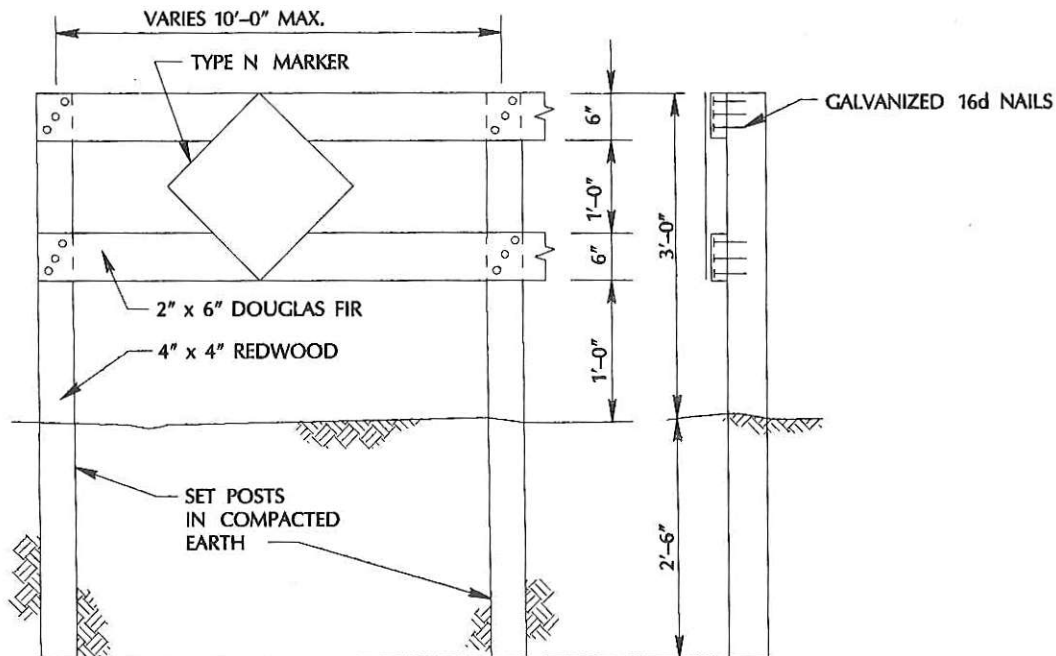
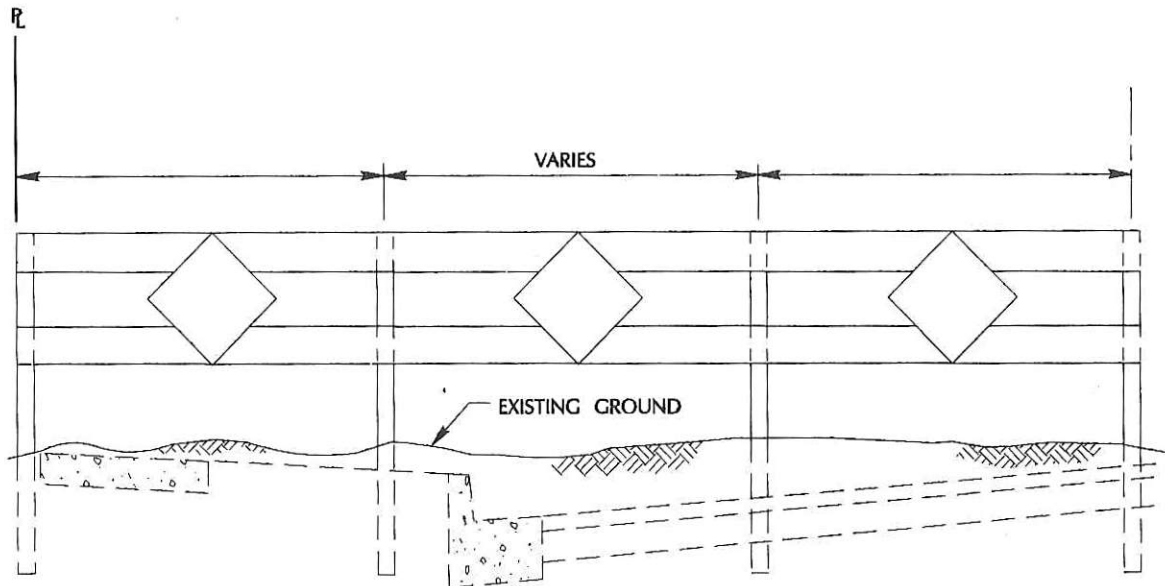
**GUARD POST**

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.  
**R-22**





**NOTES:**

1. PAINT ALL EXPOSED WOOD SURFACES WITH ONE APPLICATION EXTERIOR WOOD PRIMER AND TWO COATS EXTERIOR WHITE ENAMEL.
2. SECURE EACH JOINT WITH THREE GALVANIZED 16d NAILS.
3. PLACE TYPE N MARKER EACH 10'-0" SECTION AS SHOWN.
4. RAILS TO BE CONSTRUCTION GRADE DOUGLAS FIR S4S 2" x 6", POSTS TO BE CONSTRUCTION GRADE REDWOOD S4S 4" x 4".

APPROVED BY

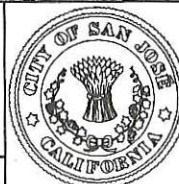
*JDM*

DATE

4/17/92

**TYPE IV BARRICADE**

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DRAWING NO.

**R-23**