

## STREET SECTION

### GENERAL

All work shall be in accordance with the latest edition of Standard Specifications, State of California, Department of Transportation, Caltrans (CSS) and the American Society for Testing and Materials (ASTM), except as modified herein.

### SUBGRADE

(a) Preparation. Special care shall be taken by the contractor to achieve an evenly compacted subgrade. The relative compaction shall be 95%, as determined by CSS TM-231, for at least the top 8" of subgrade. In areas of fill, a minimum of 24" from finished grade shall be compacted to 95% relative compaction. Moisture-Density curve determinations shall conform to ASTM D1557.

### PAVEMENT

(a) Asphalt Concrete Pavement Asphalt concrete pavement shall contain the number of lifts specified. In the case of two lifts, the first shall be the base course, Type B, 3/4 inch maximum aggregate size, and the second lift shall be the surface course, Type B, 1/2 inch maximum aggregate size, as specified in CSS Section 39. The relative compaction of each asphalt concrete lift shall be 95%, unless approved otherwise by the City Engineer.

(b) Aggregate Base. Aggregate base shall be 3/4" max. Class 2 aggregate base as specified in CSS Section 26.

(c) Aggregate Sub-base. Aggregate sub-base shall be 1 1/2" max. Class 2 aggregate base, as specified in CSS Section 26.

(d) Contaminated Base. Any aggregate base that becomes contaminated during construction shall be removed and replaced with uncontaminated Class 2 Aggregate Base.

(e) Lime Stabilized Subgrade. Lime stabilized subgrade shall only be used upon approval of the City Engineer and shall be constructed in accordance with CSS Section 24. An increase in the lime content must be approved by the City Engineer.

(f) Proportioning, Mixing, Spreading, and Compacting. The proportioning, mixing, spreading and compacting of asphalt concrete to make up asphalt pavement, shall be in accordance with CSS Section 39.

(g) Priming. Untreated aggregate base shall be primed with MC-70, in accordance with CSS Section 39-4.02.

(h) Tacking. Any vertical edge adjoining new pavement courses shall be tacked with SS-1 prior to placement of pavement course, in accordance with CSS Section 39-4.02.

(i) Fog Sealing. The asphalt surface shall be fog sealed with SS-1 when specified and conform to CSS Section 37.



**City of Morgan Hill**  
**Public Works Department**

*Jim Cochcroft*  
CITY ENGINEER

4/1/96  
DATE

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REVISED

## GENERAL NOTES

DRAWING  
NO.

A-I

(j) Joining Existing Pavement. Existing pavement which is to be joined by new pavement, shall be saw cut vertical to provide straight, true, and neat joints. Overlapping of existing pavement without saw cutting or grinding shall not be permitted. The vertical edges shall be tacked prior to paving as specified previously. Terminals of all surfacing indicated on the plans shall join any existing surface in a smooth butt joint. Conform paving by method of abrasive grinding will be allowed upon approval of the City Engineer.

(k) Patch Repairs. Where repairs to new or existing asphalt concrete are required, the AC shall be totally removed, edges saw cut and tacked, base primed, and replaced with new hot mix AC. If cold mix is used as a temporary patch, the contractor shall be responsible for maintenance of the cold mix at all times. Contractor shall remove all cold mix prior to finish paving and henceforth become property of the Contractor.

(l) Removal and Disposal of Pavement. Where pavement is shown to be removed on the plans, it shall mean that all asphalt concrete and aggregate base be removed. Waste or surplus asphalt mix, old pavement and sub-base debris shall be removed from the site.

## **CONCRETE**

(a) Cement. All cement shall conform to the specifications and tests for Portland Cement, ASTM Specifications C-150, and shall be Type 2.

(b) Fine aggregate. Fine aggregate shall be clean, natural sand or sand prepared from stone or gravel and shall conform to the requirements of ASTM C-33, and CSS Section 90-2.02B.

(c) Coarse Aggregate. Coarse aggregate shall consist of material conforming to the requirements of ASTM C-33, and shall be in accordance with CSS Section 90-2.02A.

(d) Water. Water used in making concrete shall be clean, free from oil, alkali, acid, organic matter, or other deleterious substances. Water shall be in accordance with CSS Section 90-2.03.

(e) Admixtures. No admixtures will be allowed except as approved by the City Engineer on a job to job basis. Such usage may only be for the purpose of increasing plasticity. No decrease in cement content shall be permitted as a result of the use of such admixtures. No other admixtures shall be added to the concrete mix. The use of admixtures, if approved by the City Engineer, shall be in accordance with CSS Section(s) 90-4.03 and 90-4.04.

(f) Workmanship and Methods. Unless specifically covered elsewhere in these details, all concrete work, including detailing of reinforcing, shall be equal to the best general practice and as set forth in the ACI Building Code, Manuals and Recommended Practices.

(g) Classes of Concrete. Concrete shall consist of two classes, herein referred to as Class 2 and Class 3, as specified in CSS Section 90. Class 2 concrete shall be used in all retaining walls, box culverts, and wherever specified in the plans and specifications. At a minimum, Class 3 concrete shall be used for driveway approaches, sidewalks, curb and gutters, thrust blocks, and miscellaneous construction items such as pipe encasements. No mixture shall produce less than 3,000 psi (at 28 days) with maximum water/cement ratio of 0.5.



**City of Morgan Hill**  
**Public Works Department**

*Jim Cochcraft*  
CITY ENGINEER

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3/15/07  
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## **GENERAL NOTES**

DRAWING  
NO.

**A-II**

(h) Pneumatically Placed Mortar. Materials used in Gunite, Shotcrete, Mortar, etc., applied directly to a surface by air jet, shall be in accordance with CSS Section 53 and Section 90, irrespective of manufacture of the mixing and placing apparatus.

(i) Proportioning and Mixing. All proportioning and mixing methods, devices, and transporting, shall be in accordance with CSS Section(s) 90-5 and 90-6.

(j) Workability. Concrete shall be of such consistency that it can be worked readily into the corners and angles of the forms and around the reinforcement without excessive spading and does not permit material segregation or bleeding of water.

(k) Field Tests. During the progress of construction, the Inspector has the authority to order tests to determine whether the concrete, as being produced, complies with the standards of quality specified. These tests shall be made in accordance with ASTM C 31 and ASTM C 39. For all concrete, the standard age for the test shall be 7 days. Slump tests shall be in accordance with ASTM C 143.

### **EMERGENCY ACCESS SURFACING**

Contractor shall be responsible for providing an "All Weather Surface" to any existing structure and/or structures under construction within the project area. For structures under construction, the required surface shall be in place prior to the commencement of any wood framing.

The required "All Weather Surface" shall consist of 6" min. thickness, Class 2 Aggregate Baserock, compacted to a relative compaction of 95%. The contractor shall be responsible for removal of any contaminated baserock prior to finish grading.

The Building Division will issue a "Foundation Only" permit and shall not issue a permit for wood framing unless the following requirements are met:

1. All new water mains are charged, pressure tested, bacteria tested and approved by the Department of Public Works. All fire hydrants within 500' of new construction are charged and operational.
2. All sub-grade is compacted to a relative compaction of 95%, tested and approved by the Department of Public Works.
3. Central Fire District has approved the proposed surface location and has visited the site after construction of the surface, but prior to issuance of Building permits for wood framing.



**City of Morgan Hill**  
**Public Works Department**

*Jim Cochcroft*  
CITY ENGINEER

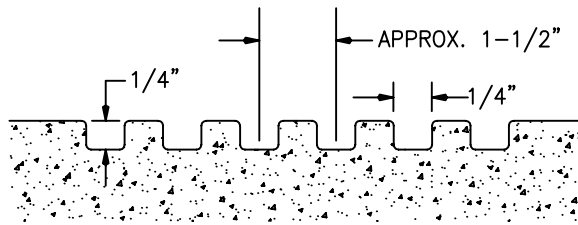
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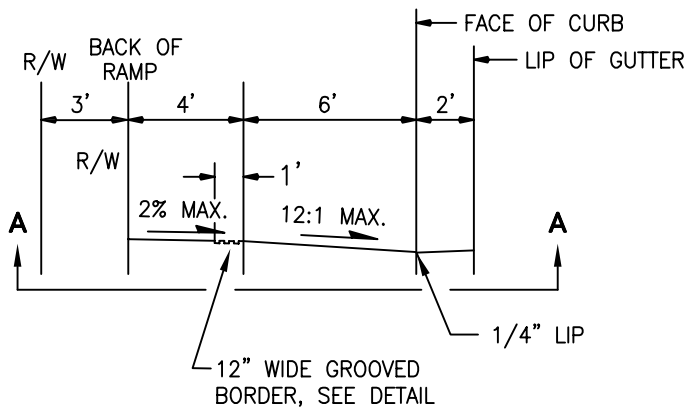
## **GENERAL NOTES**

DRAWING  
NO.

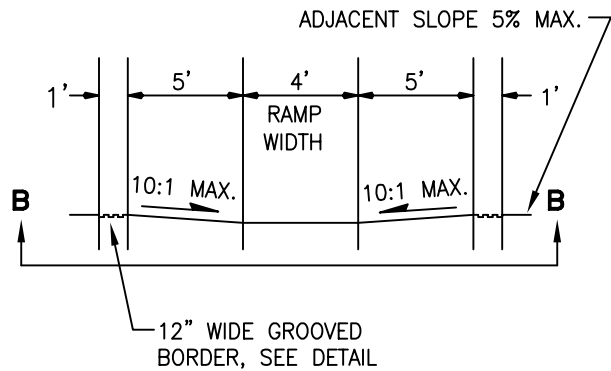
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**GROOVING DETAIL**

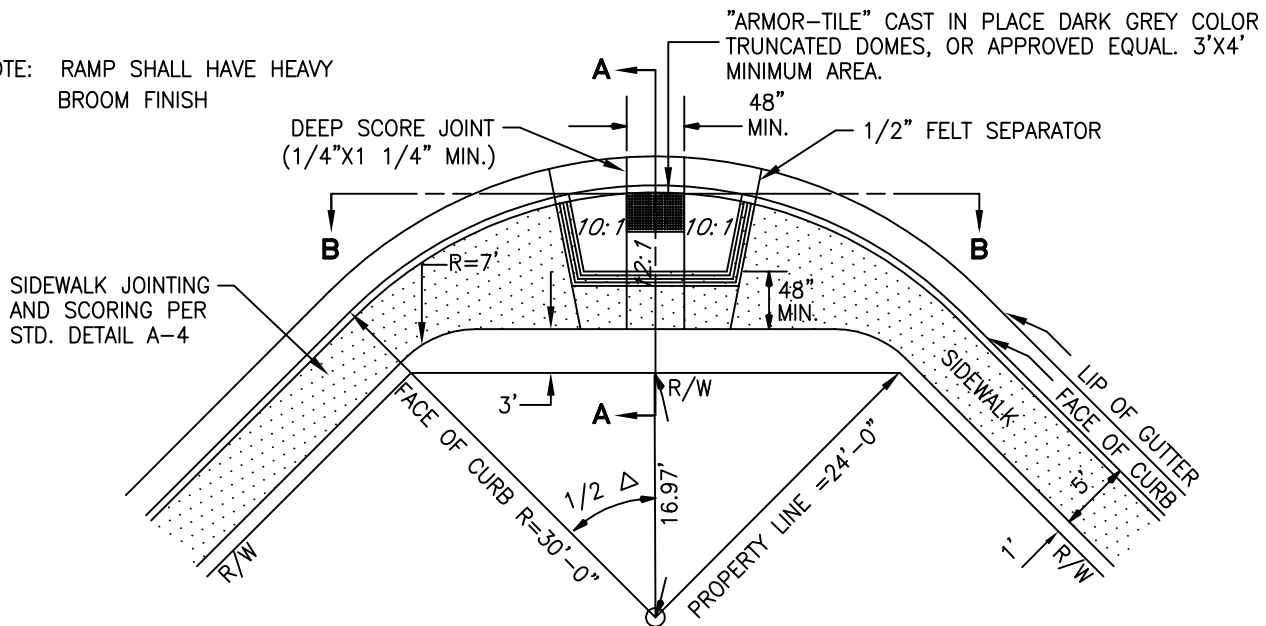


**SECTION A - A**



**SECTION B - B**

NOTE: RAMP SHALL HAVE HEAVY BROOM FINISH



**NOTE:** CURRENT A.D.A. (AMERICANS WITH DISABILITIES ACT) REQUIREMENTS SHALL GOVERN OVER THIS DRAWING.



**City of Morgan Hill**  
Public Works Department

*Jim Dehcraft*  
CITY ENGINEER

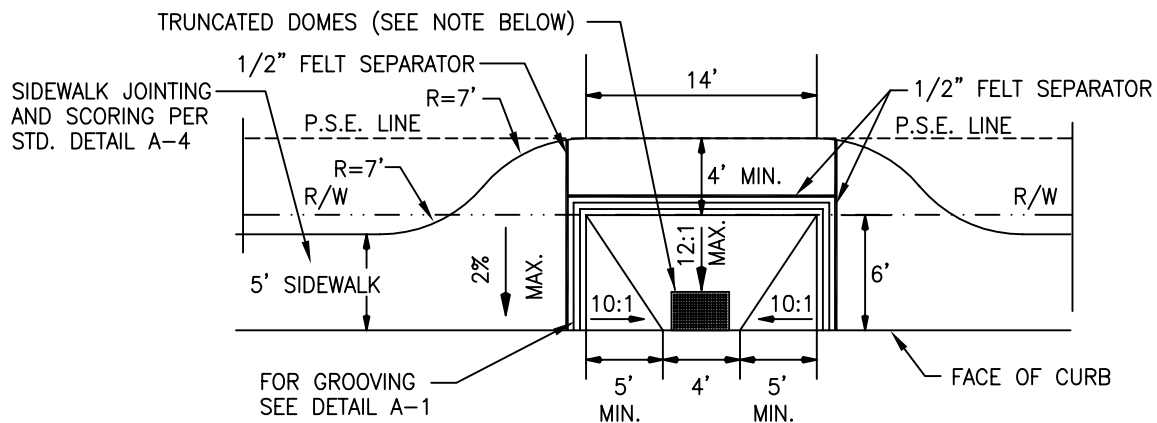
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2/25/09  
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**HANDICAP RAMP  
RESIDENTIAL SIDEWALK**

DRAWING  
NO.

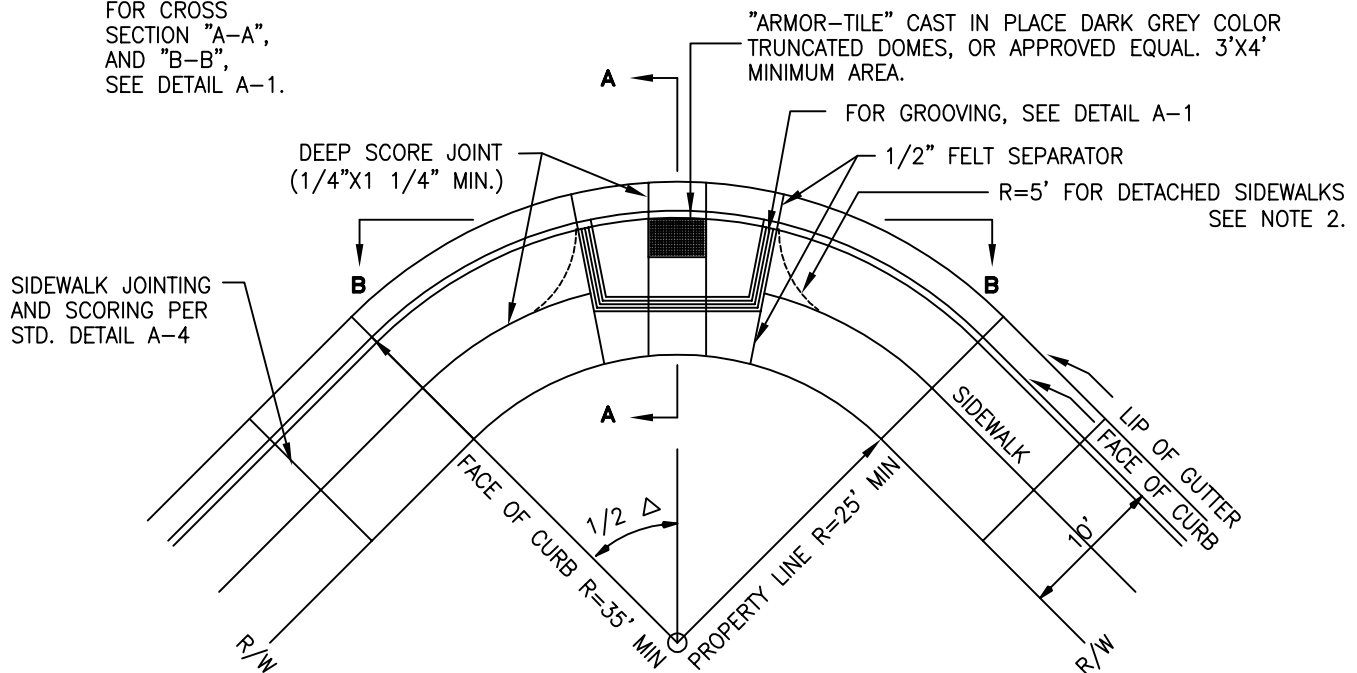
**A-1**



### 'CASE D' HANDICAP RESIDENTIAL RAMP

NOTE: RAMP SHALL HAVE HEAVY  
BROOM FINISH

FOR CROSS  
SECTION "A-A",  
AND "B-B",  
SEE DETAIL A-1.



#### NOTES:

1. CURRENT A.D.A. (AMERICANS WITH DISABILITIES ACT) SHALL GOVERN OVER THIS DRAWING.
2. FOR 5' ATTACHED SIDEWALK, SEE DETAIL A-1 FOR HANDICAP RAMP AND SIDEWALK CONFIGURATION.



**City of Morgan Hill**  
Public Works Department

*Jim Ochcroft*  
CITY ENGINEER

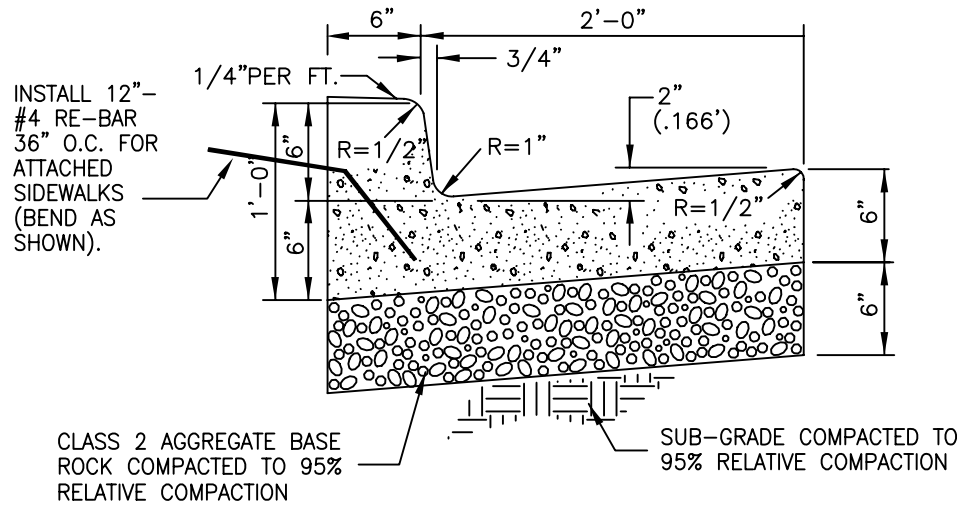
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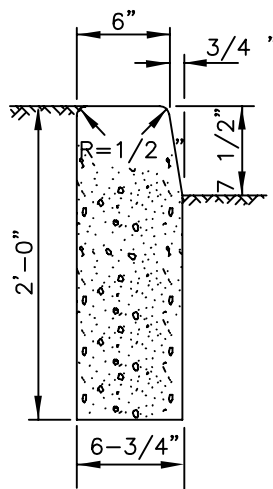
## HANDICAP RAMP COMMERCIAL SIDEWALK

DRAWING  
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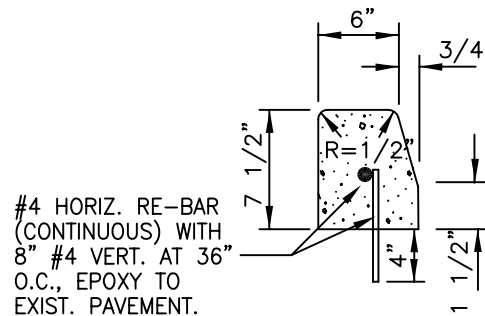
A-2



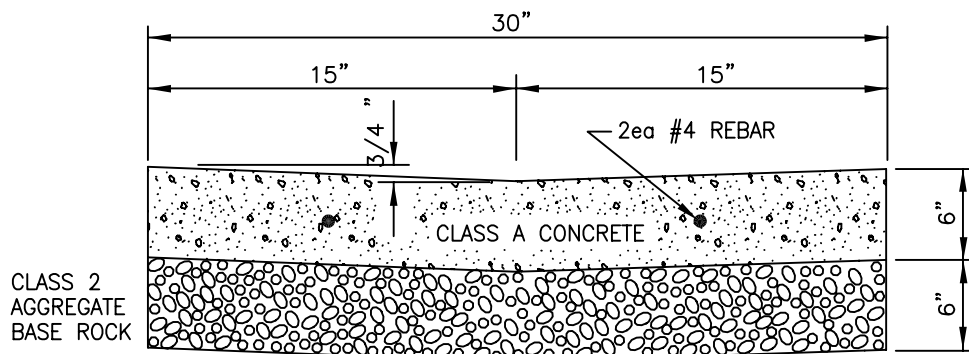
**"TYPE 1" CURB AND GUTTER**



**"TYPE 2" FULL VERTICAL CURB**



**"TYPE 3" (TEMPORARY) EXTRUDED CURB**



**"TYPE 4" VALLEY GUTTER**

- NOTES:**
1. A DEEP SCORE JOINT AT EVERY 10' (1/4" X 1 1/4" MIN.) AND A FELT SEPARATOR AT EVERY 60' (1/2") SHALL BE INSTALLED FOR ALL GUTTER TYPES.
  2. TYPE 3 (TEMPORARY) EXTRUDED CURB SHALL ONLY BE USED UPON WRITTEN APPROVAL BY THE CITY ENGINEER.



**City of Morgan Hill**  
Public Works Department

*Jim Ochcroft*  
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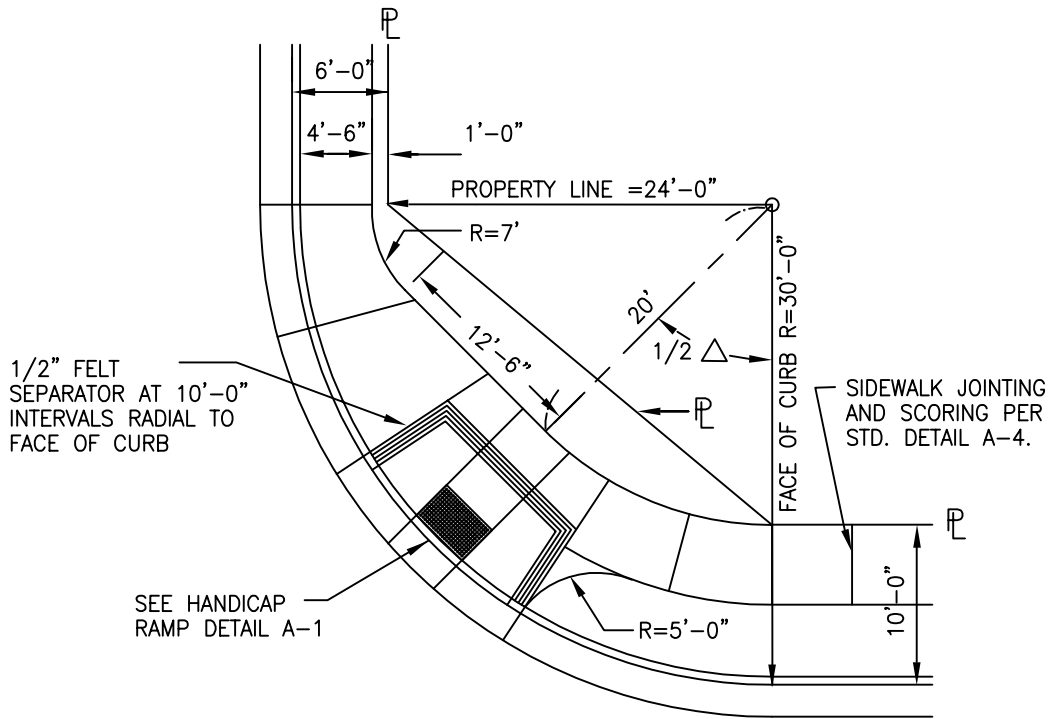
3/15/07  
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**CONCRETE CURB AND/OR  
GUTTER TYPES**

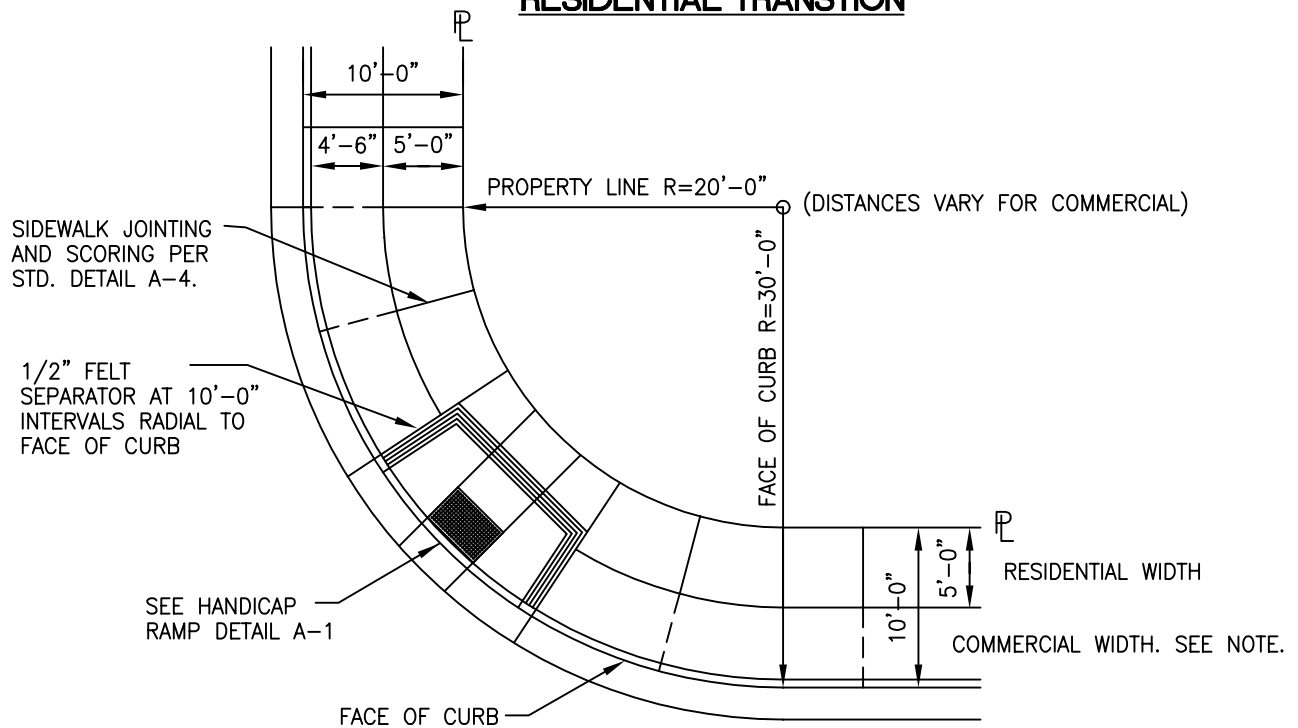
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NO.

**A-3**





### RESIDENTIAL TRANSITION



### RESIDENTIAL DETACHED OR COMMERCIAL

**NOTE:** 10' COMMERCIAL SIDEWALK IN DOWNTOWN CORE. SEE DETAIL A-1 OR A-2 FOR 5' SIDEWALK, DEPENDING UPON PLANNING DEPARTMENT REQUIREMENTS.



**City of Morgan Hill**  
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CITY ENGINEER

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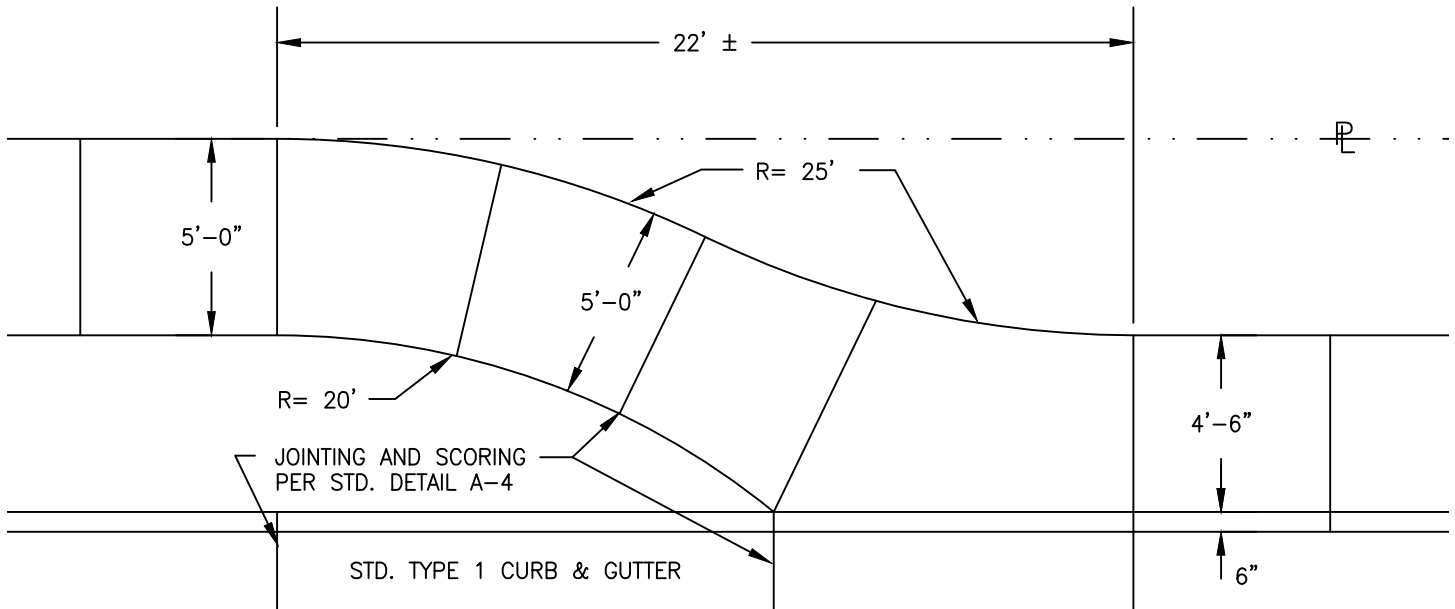
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## STANDARD RETURNS DETACHED AND TRANSITION SIDEWALKS

DRAWING  
NO.

A-5





**NOTE:** 1. SHORTER TRANSITION MAY BE USED UPON CITY ENGINEER APPROVAL



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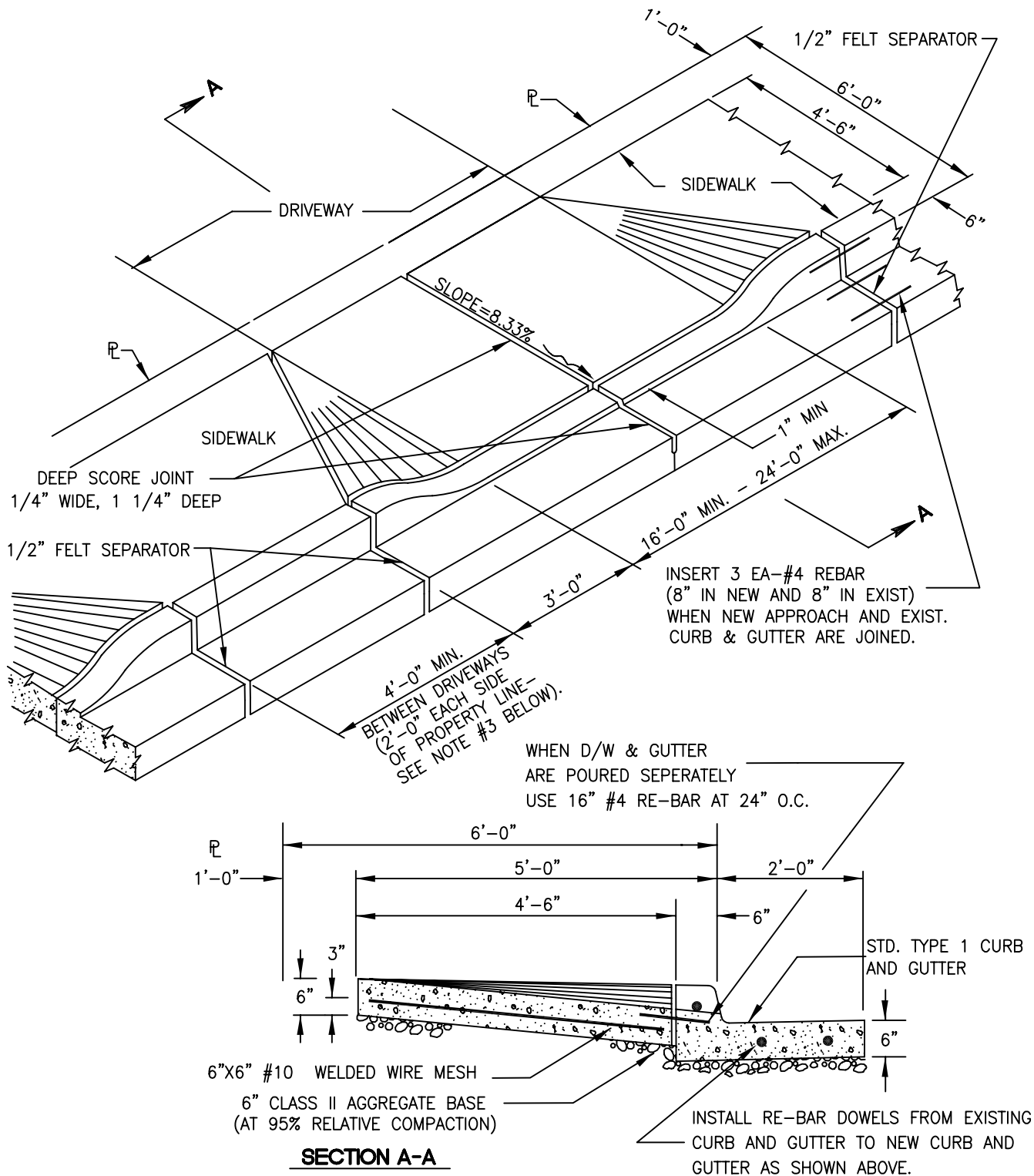
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**ATTACHED TO DETACHED  
SIDEWALK TRANSITION**

DRAWING  
NO.

**A-6**





**NOTES:**

1. DRIVEWAYS EXCEEDING 24' IN WIDTH (EXCLUDING TAPERS), SHALL REQUIRE APPROVAL OF THE CITY ENGINEER.
2. DRIVEWAYS SHALL BE CONSTRUCTED A MINIMUM OF 5' FROM ANY FIRE HYDRANT OR ELECTROLIER.
3. MINIMUM DISTANCE SHALL BE AS SHOWN. DISTANCE MAY BE REDUCED FOR CUL-DE-SAC APPLICATIONS AND DUPLEX APPLICATIONS (REQUIRES CITY ENGINEER APPROVAL).



**City of Morgan Hill**  
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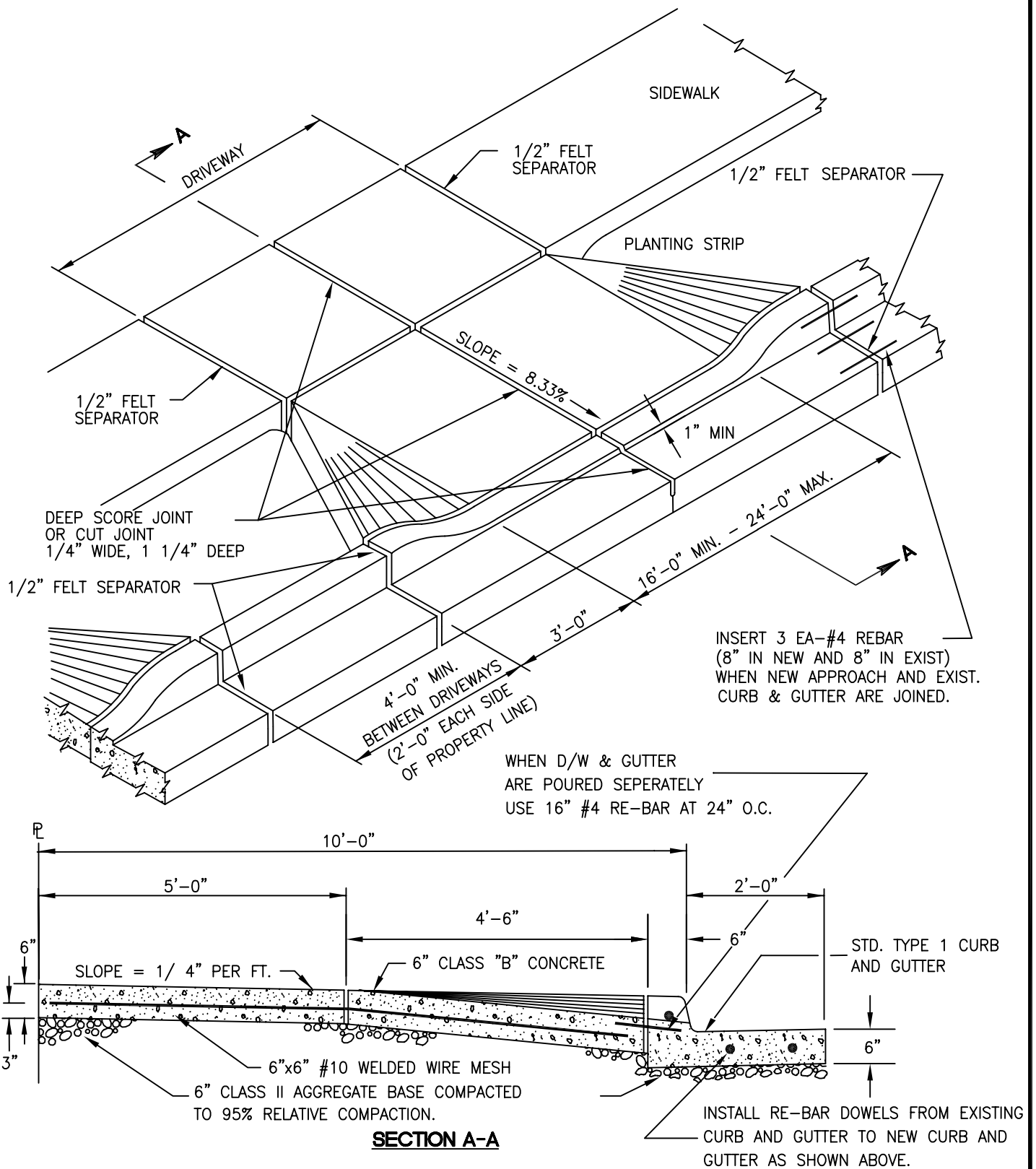
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**NEW RESIDENTIAL DRIVEWAY  
APPROACH  
ATTACHED SIDEWALK**

DRAWING  
NO.

**A-8**



- NOTES:**
1. DRIVEWAY APPROACHES EXCEEDING 24' IN WIDTH (EXCLUDING TAPERS), REQUIRE CITY ENGINEER APPROVAL.
  2. DRIVEWAYS SHALL BE CONSTRUCTED A MIN. OF 5' FROM ANY FIRE HYDRANT OR ELECTROLIER.



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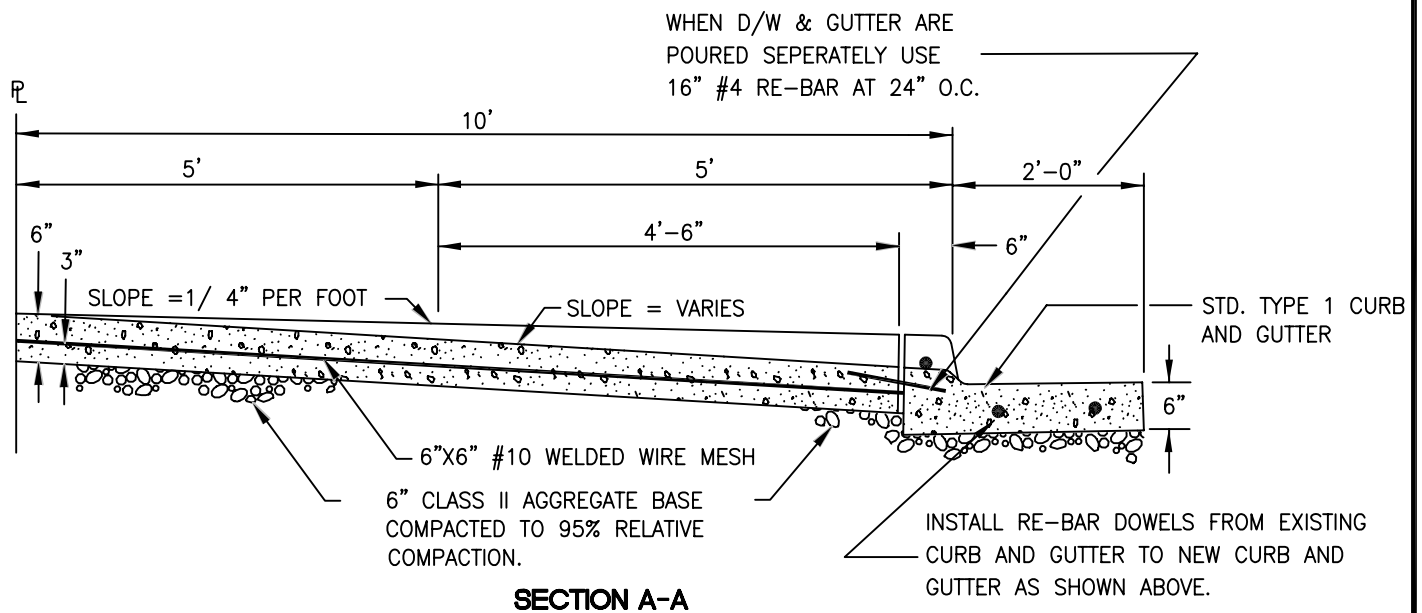
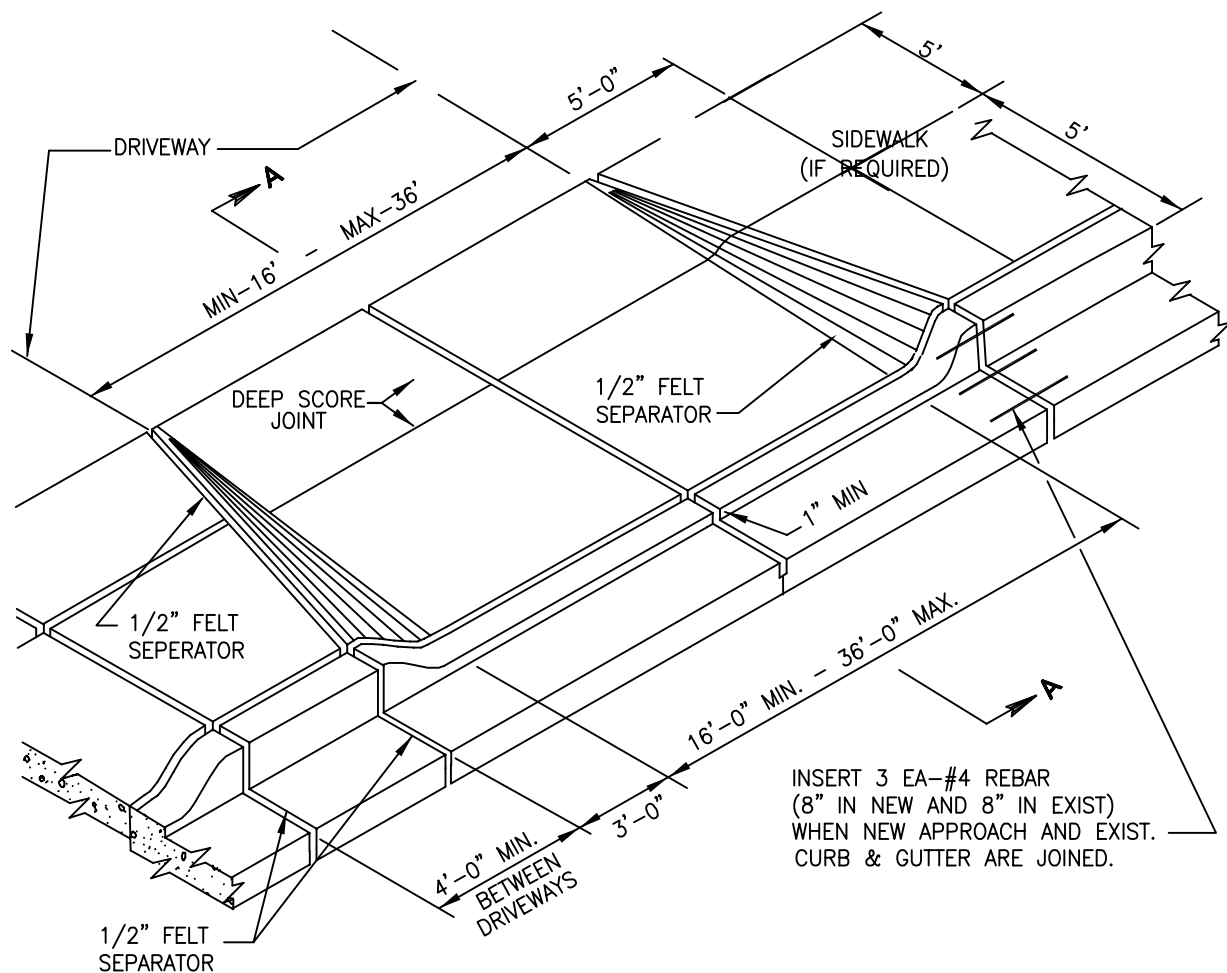
*Jim Ashcraft*  
CITY ENGINEER

4/1/96  
DATE

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# **NEW RESIDENTIAL DRIVEWAY APPROACH DETACHED SIDEWALK**

DRAWING  
NO.  
**A-9**



**City of Morgan Hill**  
Public Works Department

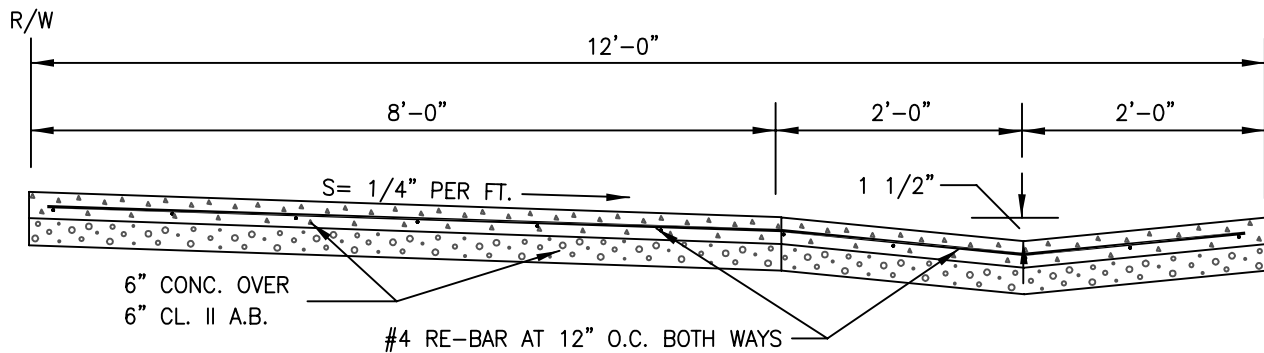
*Jim Ashcraft*  
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4/1/96  
DATE

3/15/07  
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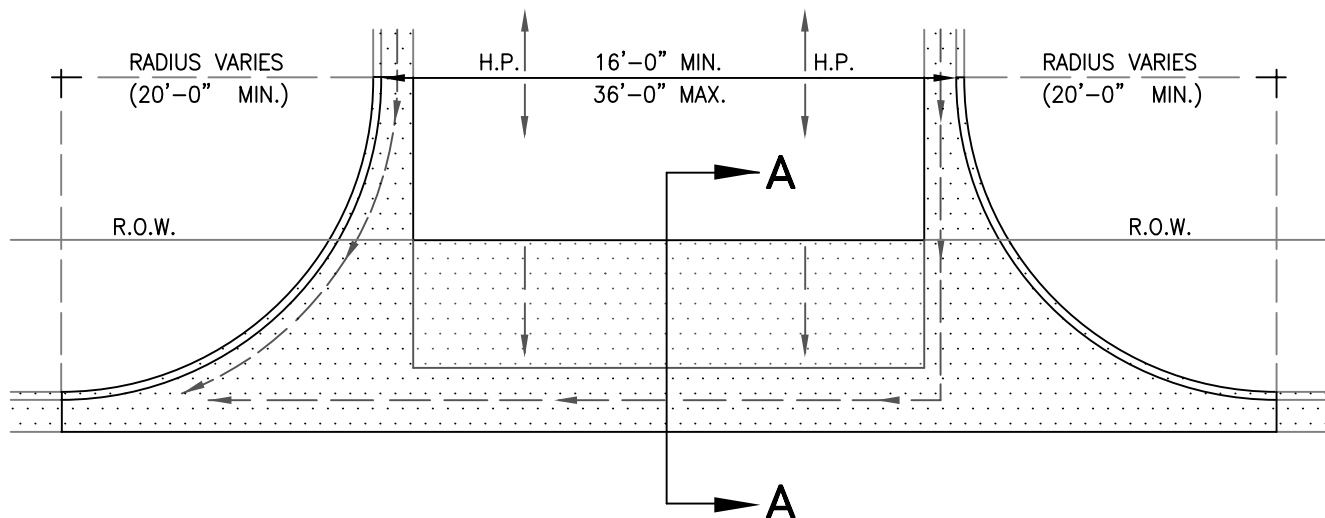
# INDUSTRIAL DRIVEWAY APPROACH COMMERCIAL SIDEWALK

DRAWING  
NO.  
A-10



## SECTION A-A

N.T.S.



## PLAN VIEW

N.T.S.

### NOTES:

1. CONSTRUCT 1/2" EXPANSION JOINTS WITH FELT FILLER AT ALL RETURNS, FOR EVERY 60 L.F. OF GUTTER SECTION, AND DEEP SCORE JOINTS (1/4" X 1 1/4" MIN.) EVERY 10'.
2. CONTRACTOR SHALL NOTIFY INSPECTOR OF FINAL JOINT CONFIGURATION FOR ALL CONCRETE WORK PRIOR TO POUR.
3. HANDICAP RAMPS MAY BE REQUIRED DEPENDING ON APPLICATION. ANY PROPOSED RAMP CONFIGURATIONS SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO START OF WORK. ALL RAMPS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE "AMERICANS WITH DISABILITIES ACT" (A.D.A.) AND IN ACCORDANCE WITH DETAILS A-1, A-2. AND A-5.
4. APPLICATION SHOWN IS INTENDED TO BE USED AS AN ALTERNATE COMMERCIAL DRIVEWAY AND MAY NOT BE USED FOR AN INTERSECTING STREET OR RESIDENTIAL ACCESS.
5. A DEDICATED 10' P.S.E. (PUBLIC SERVICE EASEMENT) SHALL BE REQUIRED TO ACCOMMODATE THE APPLICATION SHOWN.



**City of Morgan Hill**  
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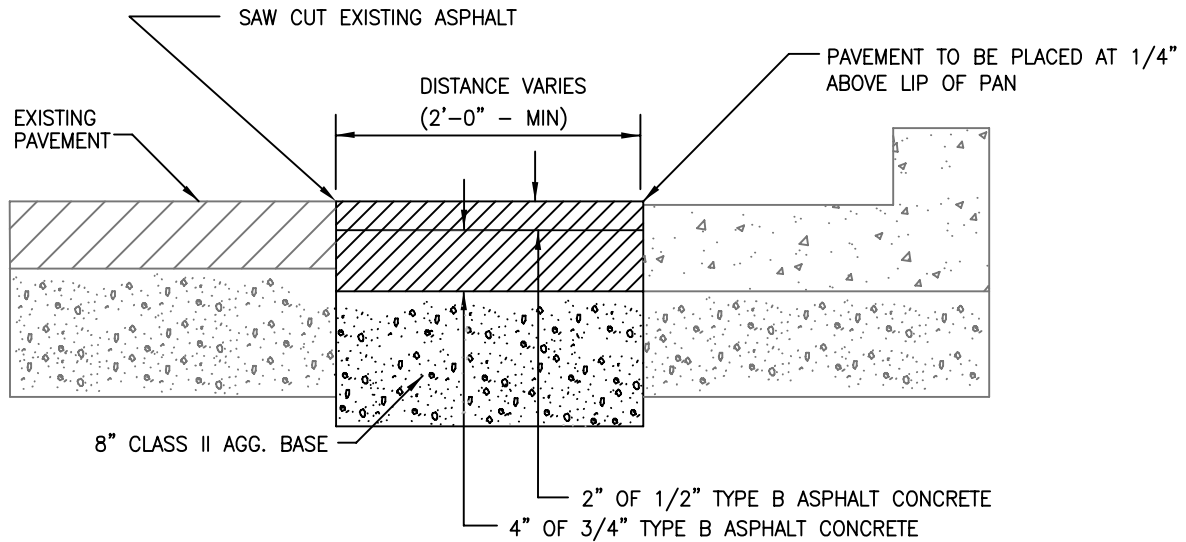
9/15/02  
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## CROSS-DRAIN COMMERCIAL DRIVEWAY APPROACH

DRAWING  
NO.

A-11



- NOTES:**
1. TACK COAT ALL VERTICAL EDGES PRIOR TO PLACEMENT OF AC.
  2. THE REQUIRED DISTANCE OF THE PAVEMENT TRANSITION SHALL DEPEND ON THE CONDITION OF THE EXISTING AC. CARE SHALL BE TAKEN DURING THE REMOVAL OF THE EXISTING GUTTER PAN TO HELP MINIMIZE THE TRANSITION PAVING WIDTH. A 2'-0" MIN. DISTANCE (AS SHOWN) SHALL BE REQUIRED UNLESS OTHERWISE DETERMINED BY THE CITY ENGINEER.



**City of Morgan Hill**  
Public Works Department

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## PAVEMENT TO NEW CURB TRANSITION

DRAWING  
NO.

A-12

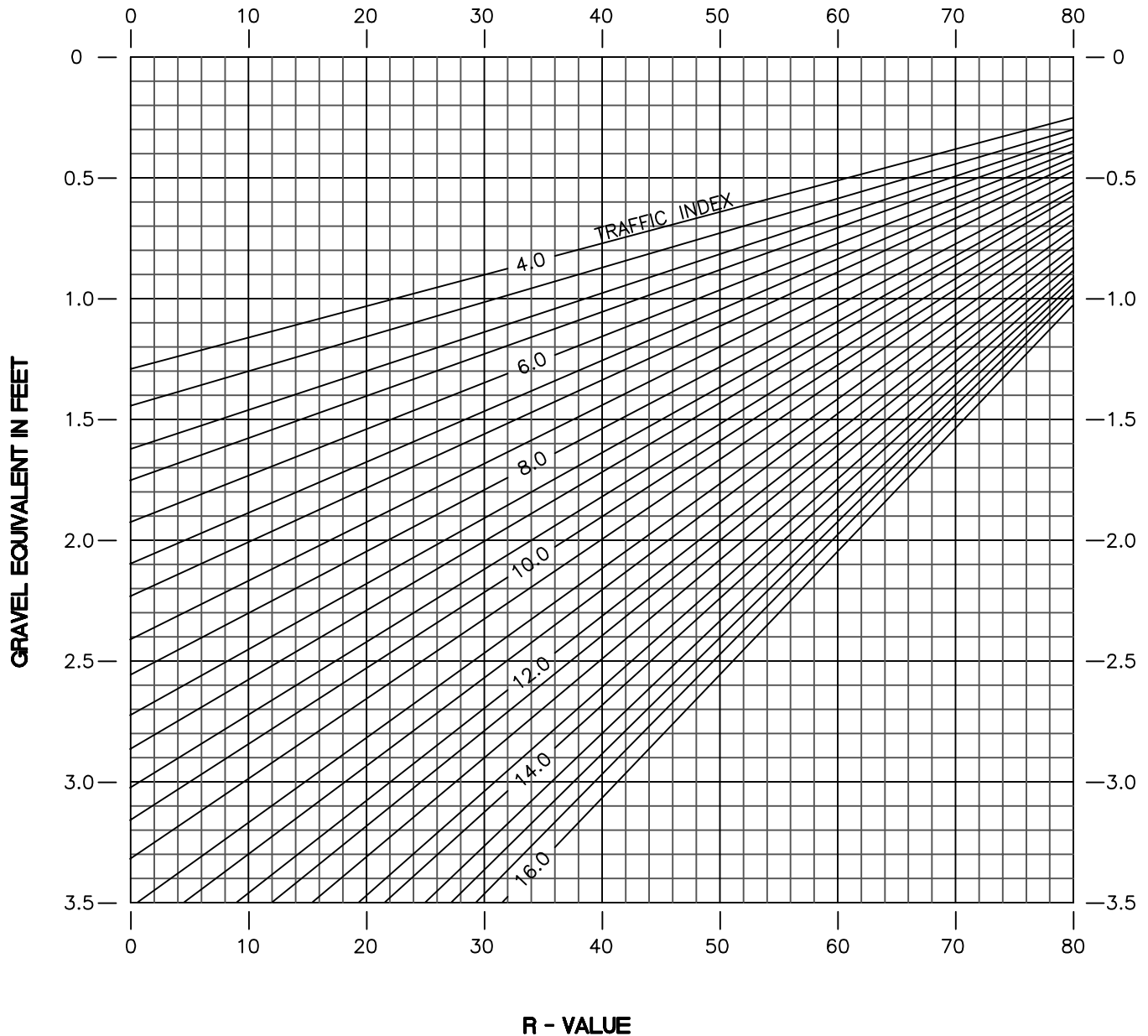
**EQUATION:**

$$G.E. = 0.0032 (T.I.)(100 - R)$$

G.E. = GRAVEL EQUIVALENT

T.I. = TRAFFIC INDEX

R. = RESISTANCE VALUE



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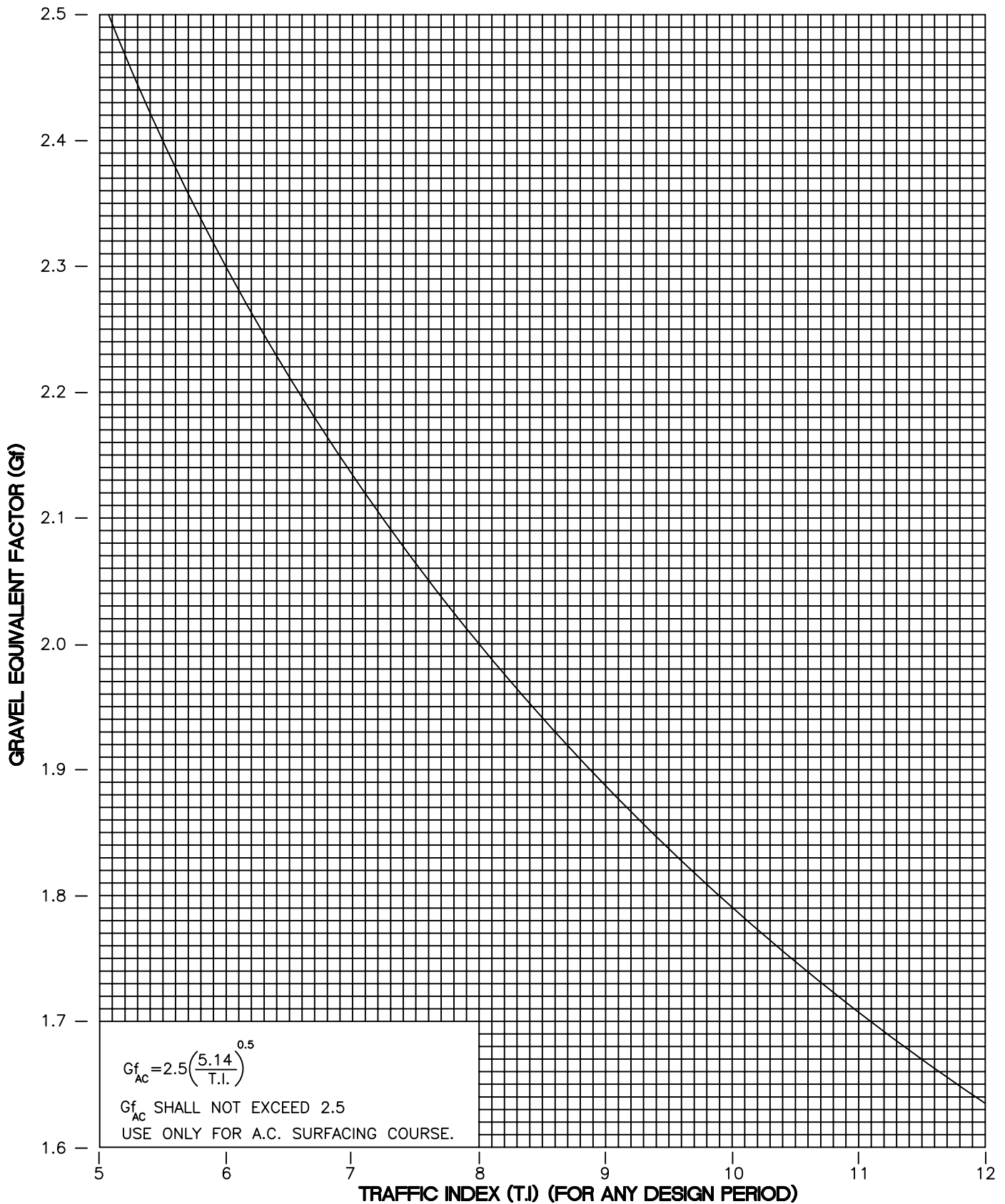
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**STRUCTURAL DESIGN CHART  
FOR FLEXIBLE PAVEMENTS**

DRAWING  
NO.

**A-13**





**City of Morgan Hill**  
Public Works Department

*Jim Oshecraft*  
CITY ENGINEER

4/1/96  
DATE

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# RELATIONSHIP BETWEEN GRAVEL EQUIVALENT FACTOR FOR ASPHALT CONCRETE AND TRAFFIC INDEX

DRAWING  
NO.

A-14

## GRAVEL EQUIVALENT FACTORS

### MATERIAL

### GRAVEL EQUIVALENT FACTOR (G<sub>f</sub>)

LEAN CONCRETE BASE (LCB)	1.9
CLASS A CEMENT TREATED BASE (CTB)	1.7
ASPHALT TREATED PERMEABLE MATERIAL (ATPM)	1.4
OPEN GRADED ASPHALT CONCRETE (OGAC)	1.4
CLASS B CEMENT TREATED BASE (CTB)	1.2
ASPHALT TREATED BASE	1.2
SOIL CEMENT	1.2
AGGREGATE BASE	1.1
AGGREGATE SUBBASE	1.0
LIME TREATED BASE (LTB)	0.9 + (unconfined compressive strength in psi / 1000)

## GRAVEL EQUIVALENTS OF FULL DEPTH ASPHALT CONCRETE

A.C. THICKNESS (FT.)	TRAFFIC INDEX *								
	6	7	8	9	10	11	12	13	14
0.55 — — — — —	1.30	1.20	1.12	1.05	1.00	0.95	0.92	0.87	0.85
0.60 — — — — —	1.44	1.33	1.24	1.17	1.10	1.06	1.02	0.97	0.94
0.65 — — — — —	1.60	1.48	1.38	1.30	1.23	1.17	1.13	1.08	1.05
0.70 — — — — —	1.79	1.65	1.54	1.45	1.37	1.31	1.26	1.20	1.17
0.75 — — — — —	1.97	1.82	1.70	1.60	1.52	1.45	1.39	1.33	1.29
0.80 — — — — —		1.99	1.86	1.75	1.66	1.59	1.53	1.46	1.41
0.85 — — — — —		2.14	2.00	1.88	1.78	1.70	1.64	1.56	1.52
0.90 — — — — —		2.31	2.17	2.04	1.93	1.84	1.77	1.69	1.64
0.95 — — — — —			2.35	2.21	2.09	2.00	1.92	1.83	1.78
1.00 — — — — —			2.51	2.36	2.23	2.13	2.05	1.96	1.90
1.05 — — — — —			2.67	2.51	2.38	2.27	2.18	2.08	2.02
1.10 — — — — —				2.68	2.54	2.42	2.33	2.22	2.16
1.15 — — — — —				2.83	2.68	2.56	2.46	2.35	2.38
1.20 — — — — —					2.82	2.70	2.59	2.48	2.40
1.25 — — — — —					2.98	2.85	2.74	2.62	2.54
1.30 — — — — —					3.15	3.00	2.89	2.76	2.68
1.35 — — — — —						3.16	3.03	2.90	2.81
1.40 — — — — —						3.31	3.18	3.04	2.95
1.45 — — — — —						3.47	3.33	3.18	3.09
1.50 — — — — —							3.48	3.32	3.22
1.55 — — — — —							3.62	3.46	3.36
1.60 — — — — —							3.77	3.61	3.50
1.65 — — — — —								3.76	3.65
1.70 — — — — —								3.90	3.78
1.75 — — — — —								4.06	3.94

\* SAFETY FACTOR OF 0.10 TO BE ADDED TO TOTAL GE BEFORE ENTERING TI COLUMN.

R-VALUE:	CLASS B CTB=80	ASB CLASS 1 = 60
	AB=78	ASB CLASS 2 = 50
		ASB CLASS 3 = 40
		ASB CLASS 4 = 50



**City of Morgan Hill**  
Public Works Department

*Jim Ashcraft*  
CITY ENGINEER

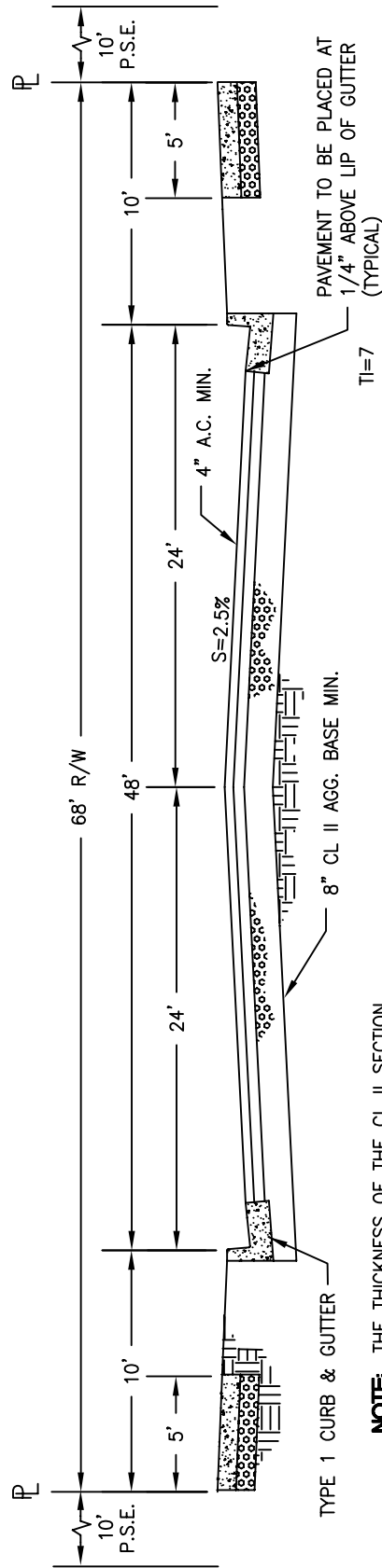
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## GRAVEL EQUIVALENTS AND EQUIVALENT FACTORS

DRAWING  
NO.

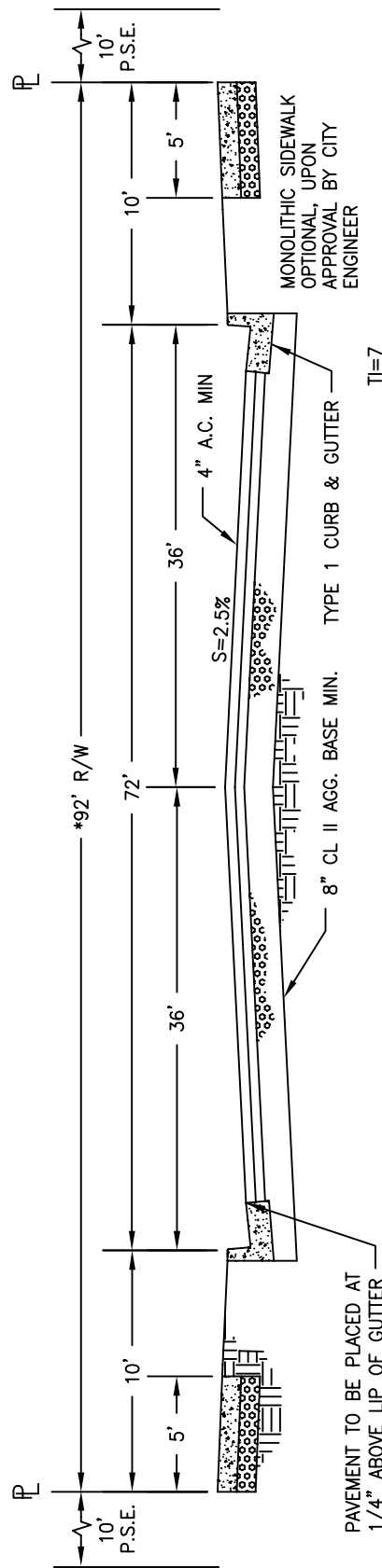
**A-15**



**NOTE:** THE THICKNESS OF THE CL II SECTION IS DETERMINED BY THE CITY ENGINEER.

SIDEWALK LOCATION SUBJECT TO APPROVAL BY THE CITY ENGINEER.

### INDUSTRIAL



### 4 LANE UNDIVIDED ARTERIAL

(Bike Lane Required)

\*: Developer required to provide 36' Right Of Way, and 26' pavement surface (42' Right Of Way, and 32' pavement for new street extension). City participation or fee credit for remainder portion may be applicable.



**City of Morgan Hill**  
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CITY ENGINEER

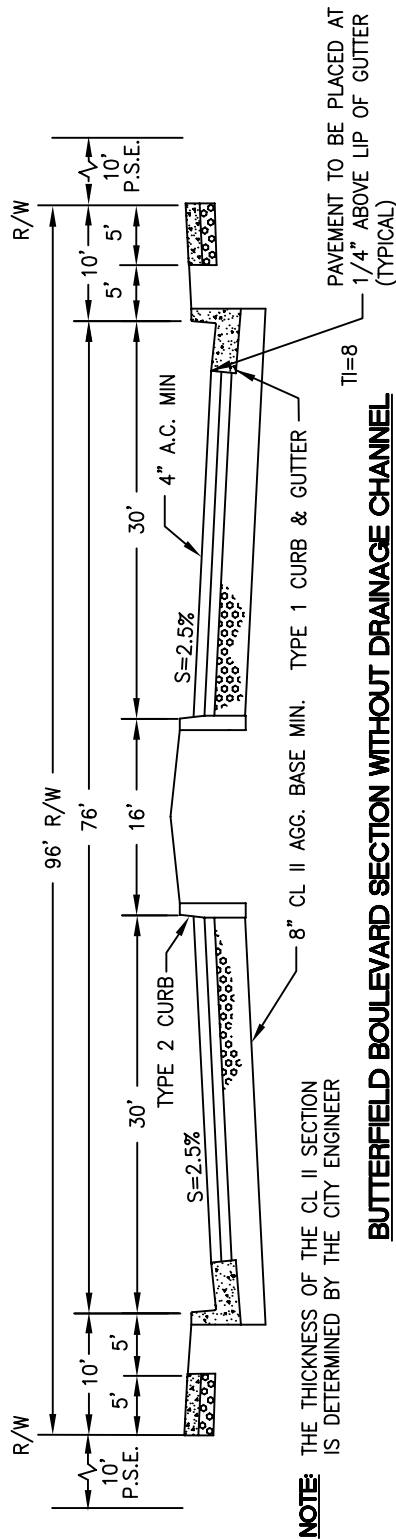
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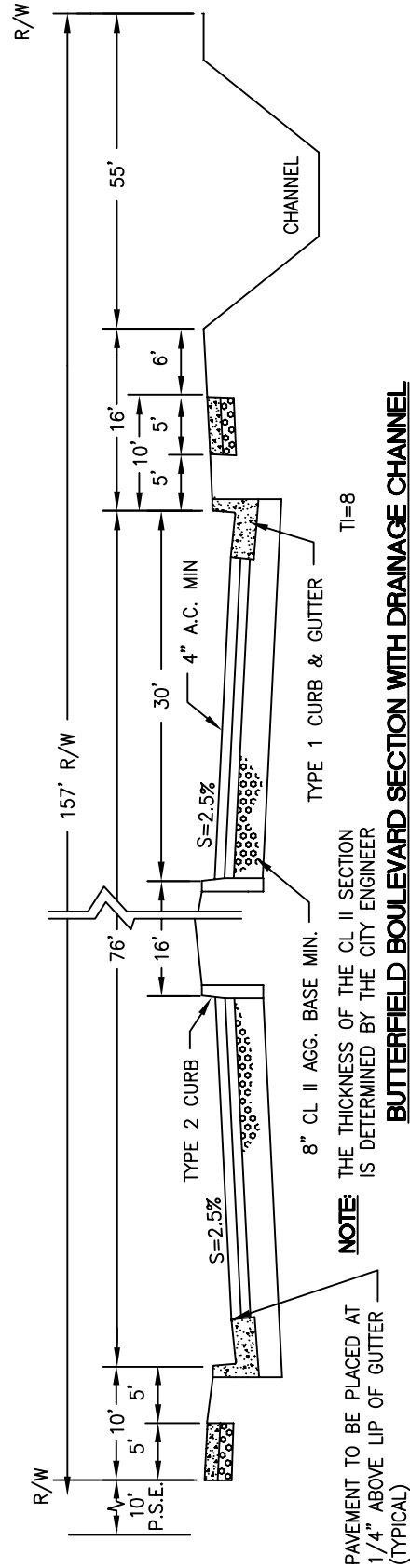
## STREET SECTION

DRAWING  
NO.

A-16



\*: Developer required to provide 36' Right of Way, and 26' pavement surface (42' Right Of Way, and 32' pavement for new street extension). City participation or fee credit for remainder portion may be applicable.



\*: Developer required to provide 36' Right of Way, and 26' pavement surface (42' Right Of Way, and 32' pavement for new street extension). City participation or fee credit for remainder portion may be applicable.



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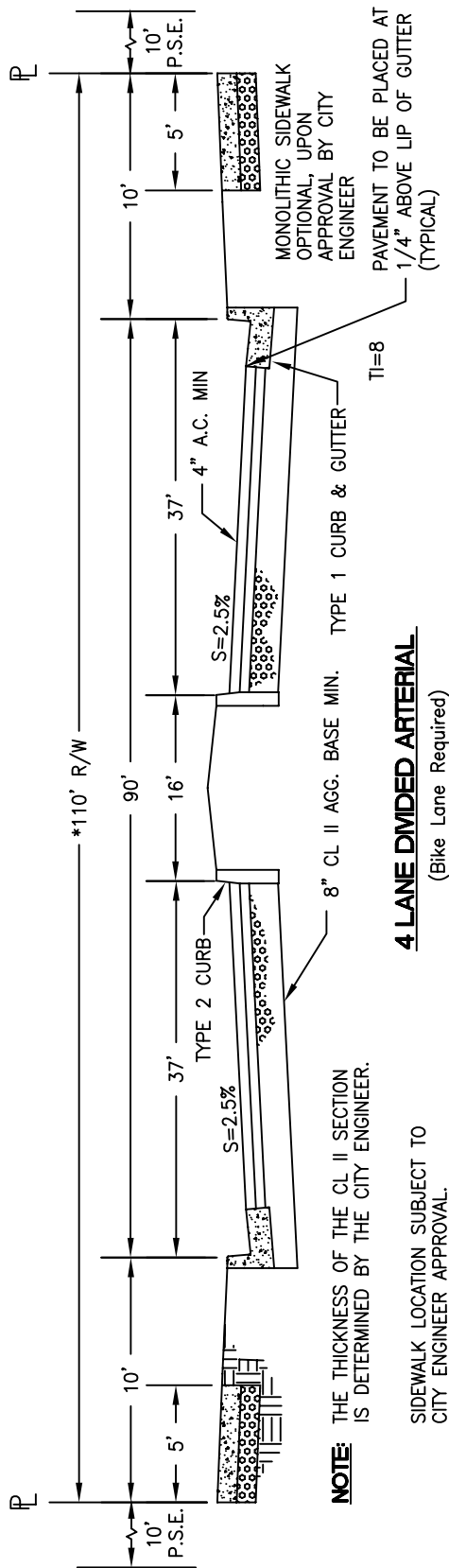
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DATE

3/15/07  
REVISED

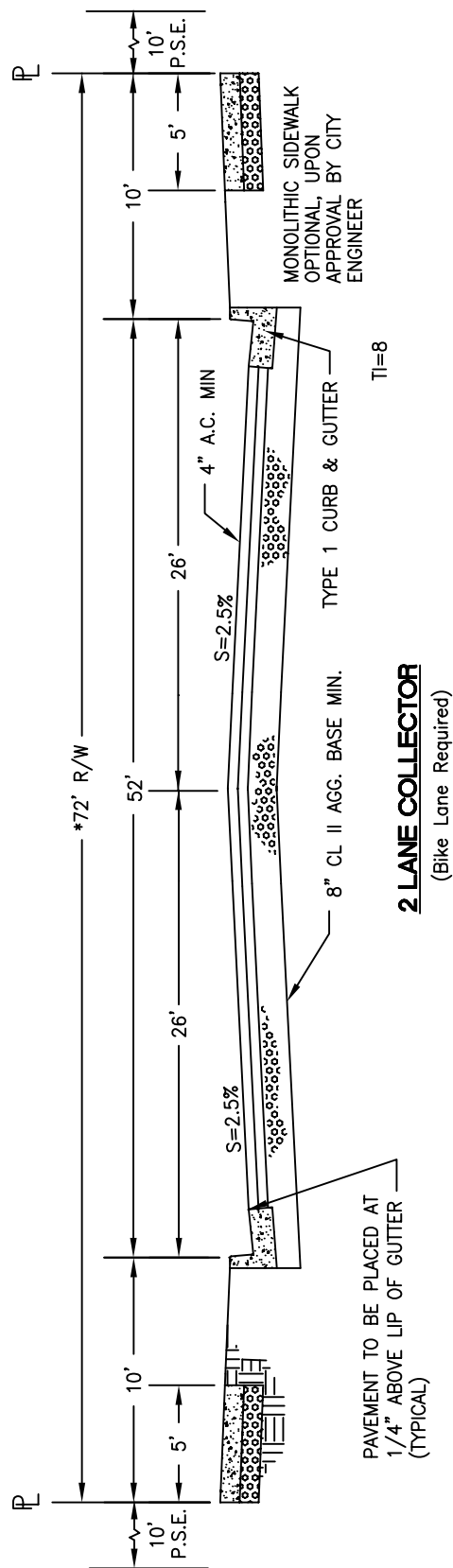
## STREET SECTION BUTTERFIELD BOULEVARD

DRAWING  
NO.

A-17



\*: Developer required to provide 36' Right Of Way, and 26' pavement surface. City participation or fee credit for remainder may be applicable.



\*: 64' R/W width acceptable on less significant collector streets.



**City of Morgan Hill**  
Public Works Department

*Jim Ashcraft*  
CITY ENGINEER

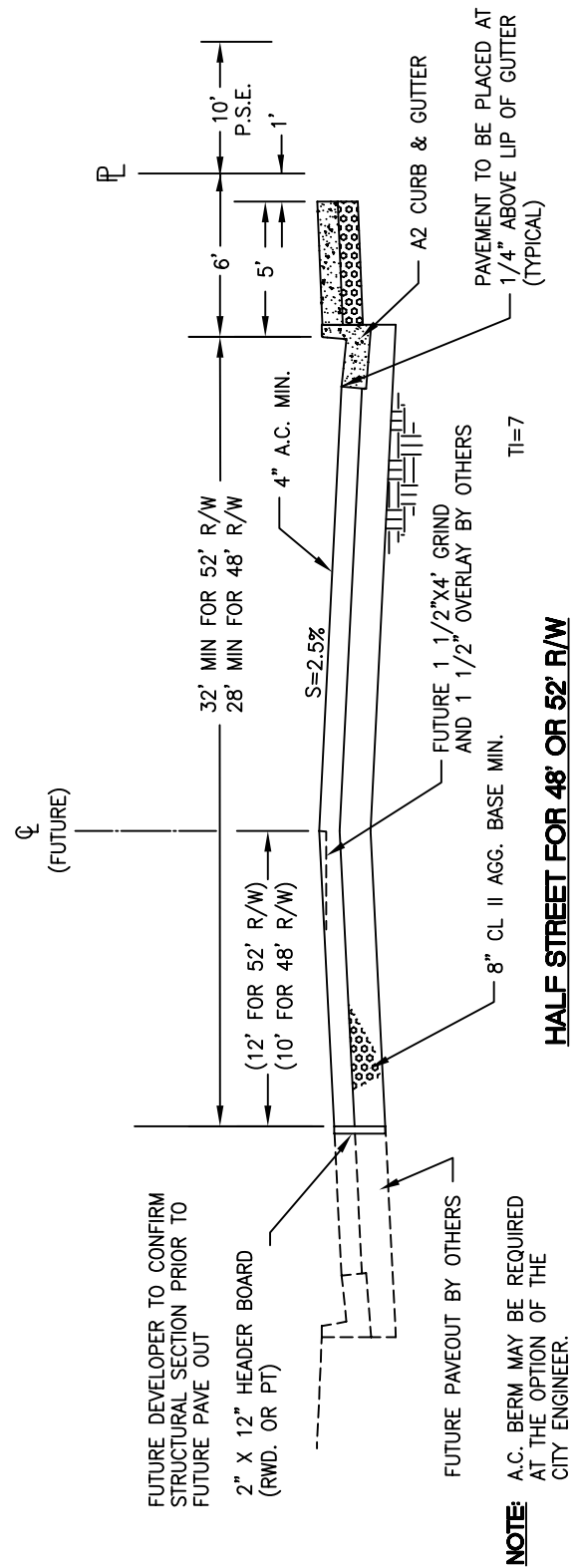
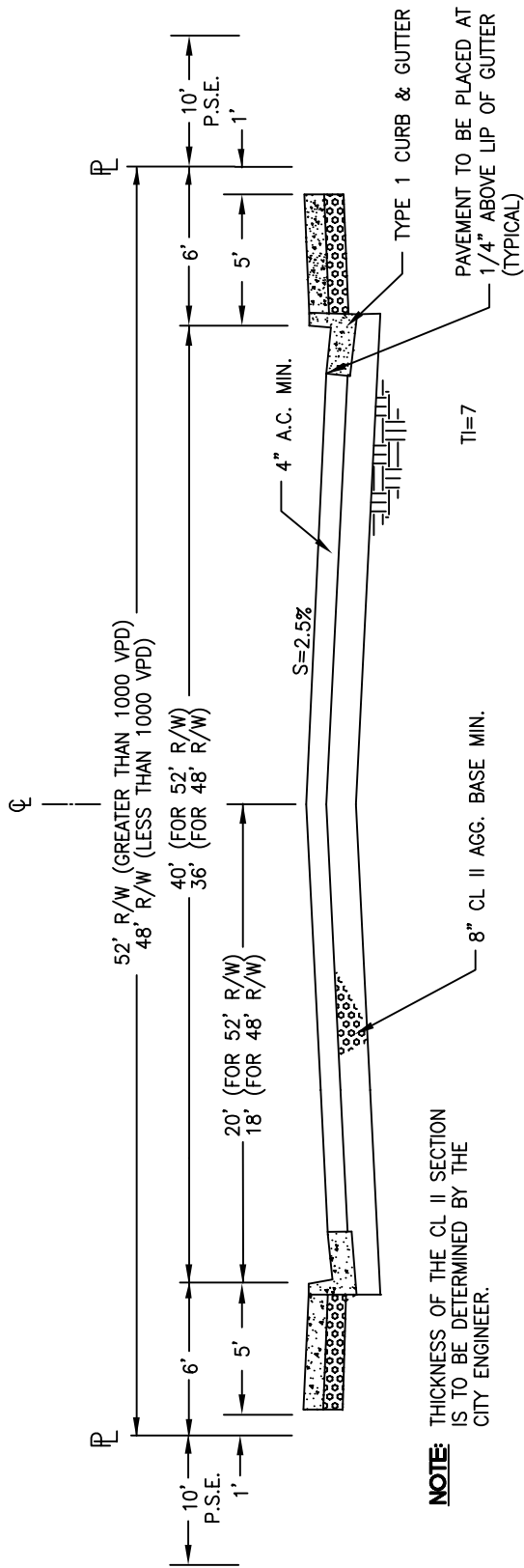
4/1/96  
DATE

3/15/07  
REVISED

**STREET SECTION**

DRAWING  
NO.

**A-18**



**City of Morgan Hill**  
Public Works Department

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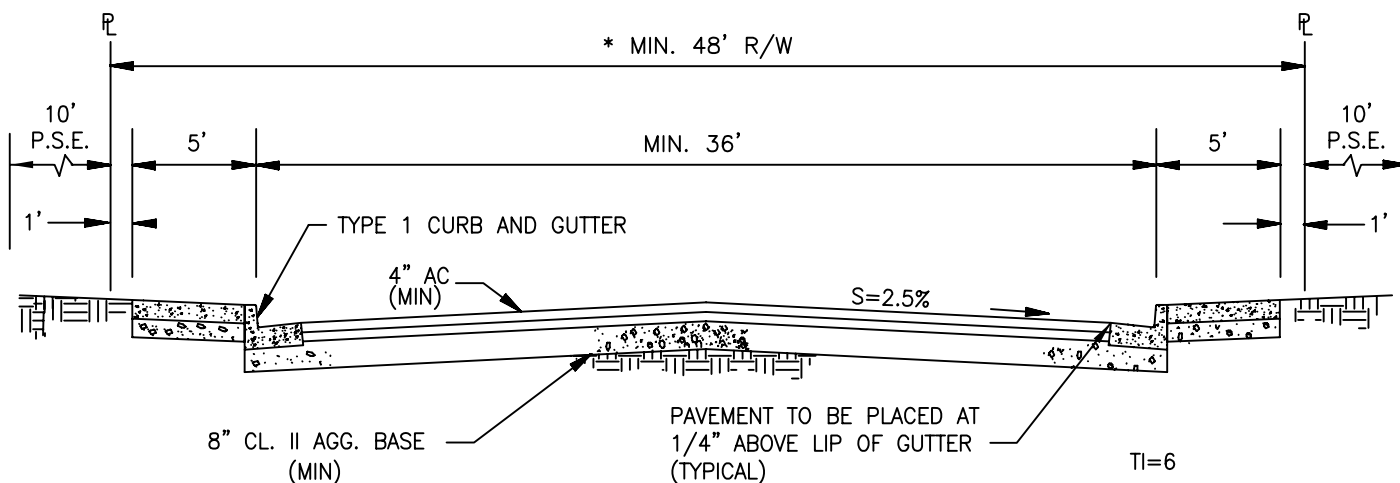
7/5/96  
DATE

3/15/07  
REVISED

## RESIDENTIAL STREET SECTION AND HALF STREET SECTION

DRAWING  
NO.

A-19

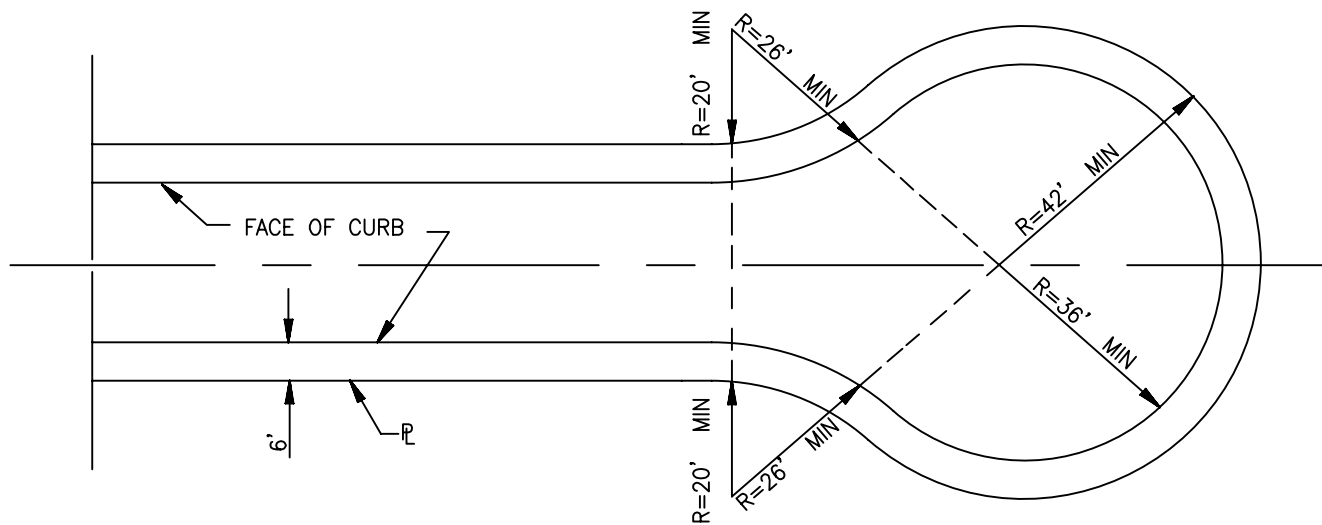


**TYPICAL CUL-DE-SAC STREET SECTION (WITH  $\leq 200$  A.D.T.)**

**NOTE:** PARKING SHALL BE ON BOTH SIDES OF THE STREET.

MAXIMUM CUL-DE-SAC LENGTH (WITHOUT SECONDARY FIRE ACCESS), FROM THE CENTER OF THE INTERSECTING STREET TO THE CENTER OF THE TURN AROUND, SHALL NOT EXCEED 600'.

\*: RIGHT-OF-WAY OF 52' MAY BE USED FOR CUL-DE-SACS. SEE RESIDENTIAL STREET SECTION DETAIL A-19.



INCREASE RADIUS AS REQUIRED FOR LOT FRONTAGE

**TYPICAL CUL-DE-SAC DATA**



**City of Morgan Hill**  
Public Works Department

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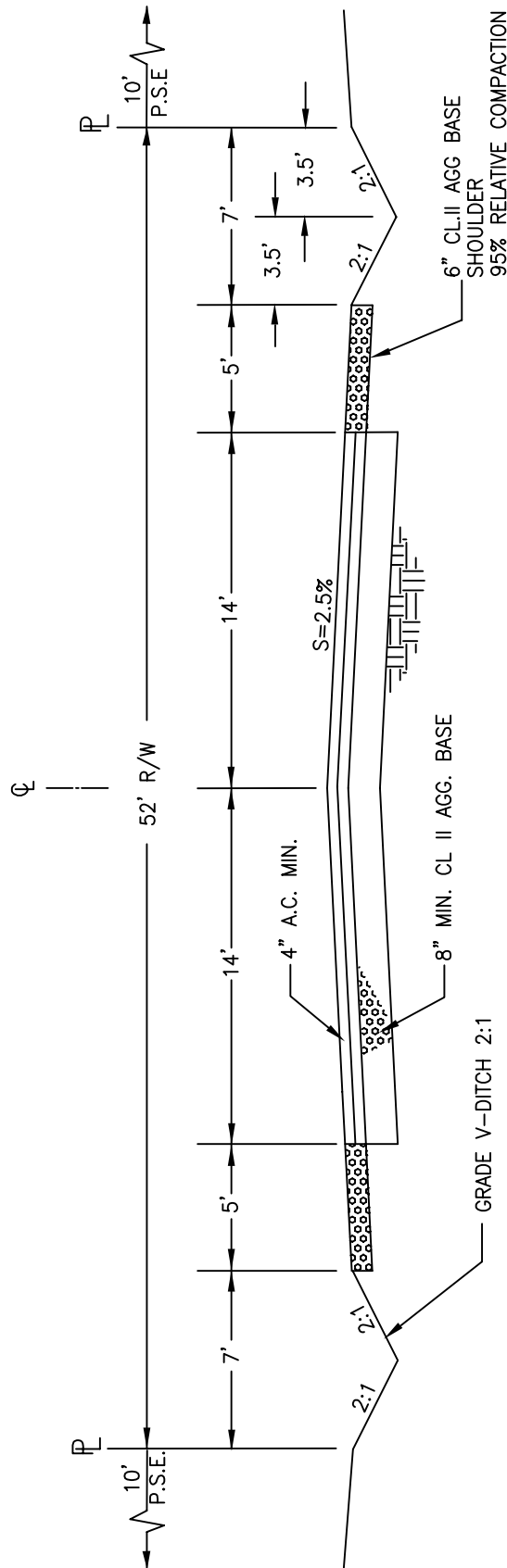
7/5/96  
DATE

3/15/07  
REVISED

**STREET SECTION**

DRAWING  
NO.

**A-20**



**NOTE:** THICKNESS OF THE CL II SECTION IS TO BE DETERMINED BY THE CITY ENGINEER.

### RURAL STREET SECTION (FOR 52' R/W)

(No On Street Parking)



**City of Morgan Hill**  
Public Works Department

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7/5/96  
DATE

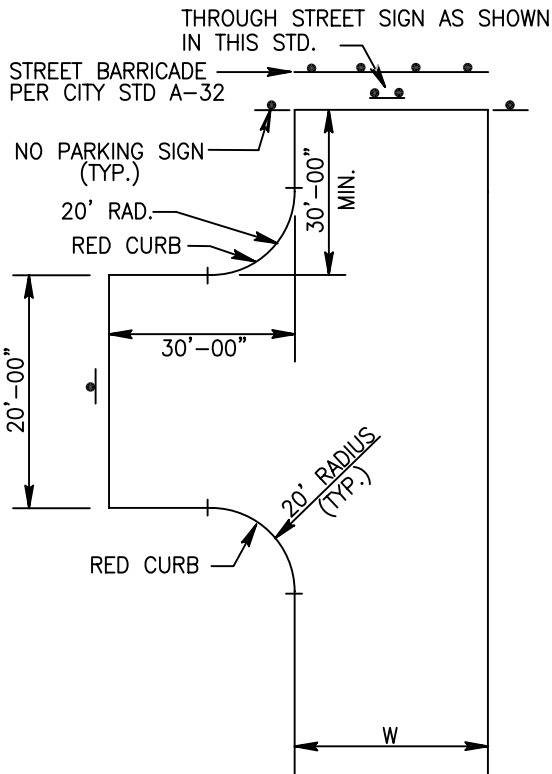
REvised

## RURAL STREET SECTION

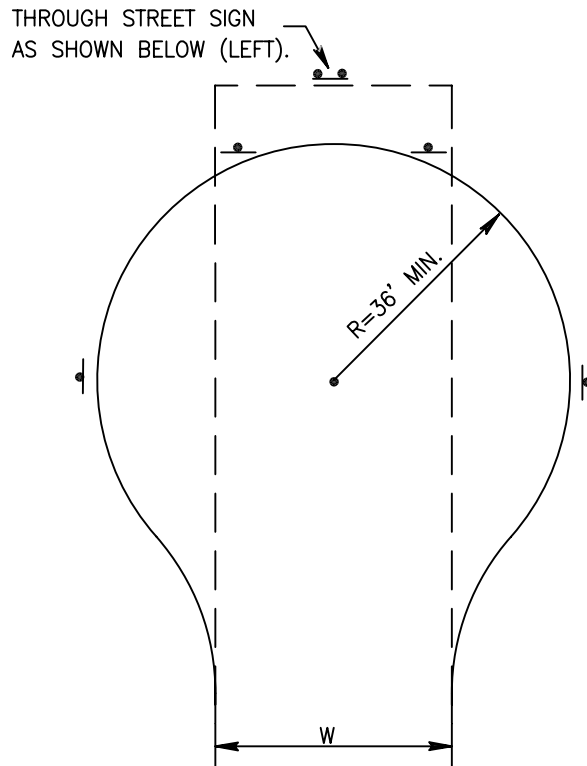
DRAWING  
NO.

A-21

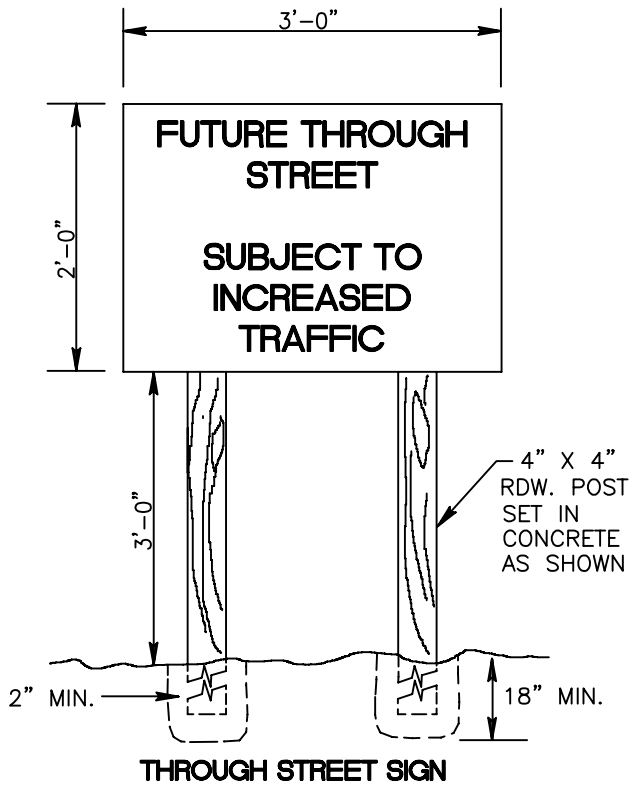




**TEMPORARY HAMMERHEAD**



**TEMPORARY CUL-DE-SAC**



**THROUGH STREET SIGN**

**NOTES:**

1. SIGN SHALL BE REFLECTORIZED PER CAL TRANS STANDARD SHEETING BLACK ON WHITE METAL SIGN WITH 2"(MIN.) LETTERS.
2. W = 20' ON TEMPORARY HAMMERHEAD.
3. DRIVEWAY APPROACHES MAY BE USED AS PART OF TEMPORARY HAMMERHEAD, PROVIDED THEY MEET THE DIMENSIONS OF THE TEMPLATE ABOVE.



**City of Morgan Hill**  
Public Works Department

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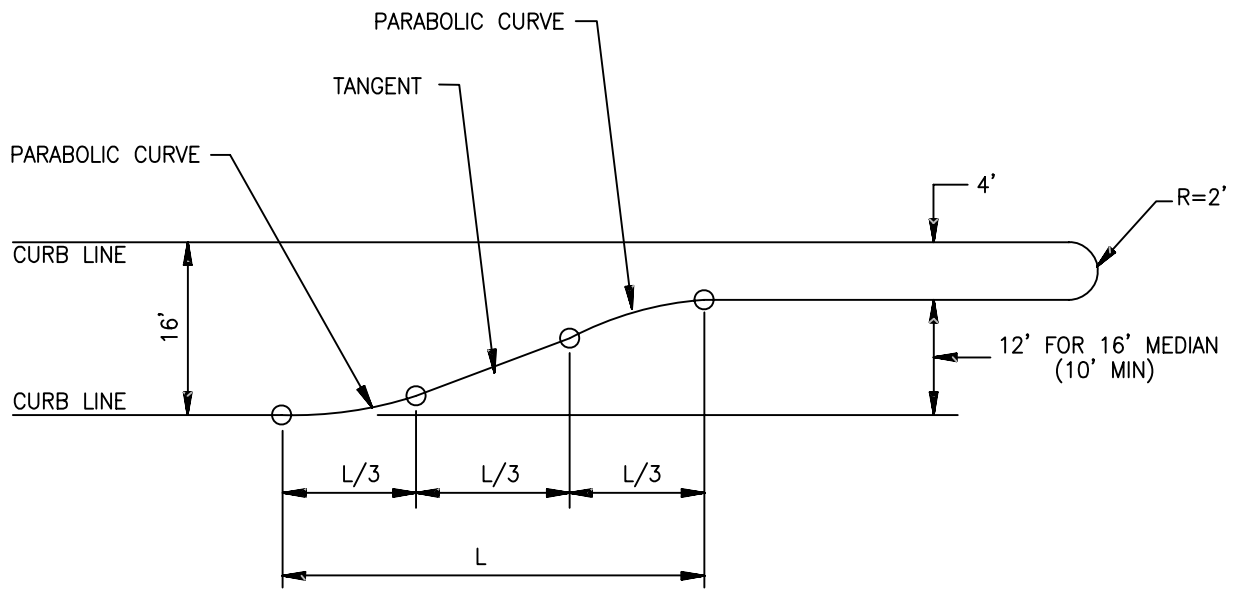
4/1/96  
DATE

6/8/00  
REVISED

**TEMPORARY TURNAROUND  
FOR FUTURE STREET**

DRAWING  
NO.  
**A-22**

A-23



L-LENGTH OF TAPER				OFFSET DISTANCE FOR LANE WIDTH OF		
60'	90'	120'		10'	11'	12'
DIST FROM BEG OF TAPER						
5	7.5	10		.16	.17	.19
10	15.0	20		.62	.69	.75
15	22.5	30		1.41	1.55	1.69
20	30.0	40		2.50	2.75	3.00
30	45.0	60		5.00	5.50	6.00
40	60.0	80		7.50	8.25	9.00
45	67.5	90		8.59	9.45	10.31
50	75.0	100		9.38	10.31	11.25
55	82.5	110		9.84	10.83	11.81
60	90.0	120		10.00	11.00	12.00

**NOTES:**

1. OFFSETS ARE MEASURED FROM A BASE LINE WHICH IS THE CURB LINE EXTENDED.
2. DISTANCE ALONG THE BASE LINE IS MEASURED FROM THE POINT OF TANGENCY AT THE BEGINNING OF TAPER.
3. TAPER LENGTH SHALL BE 90' UNLESS OTHERWISE APPROVED.



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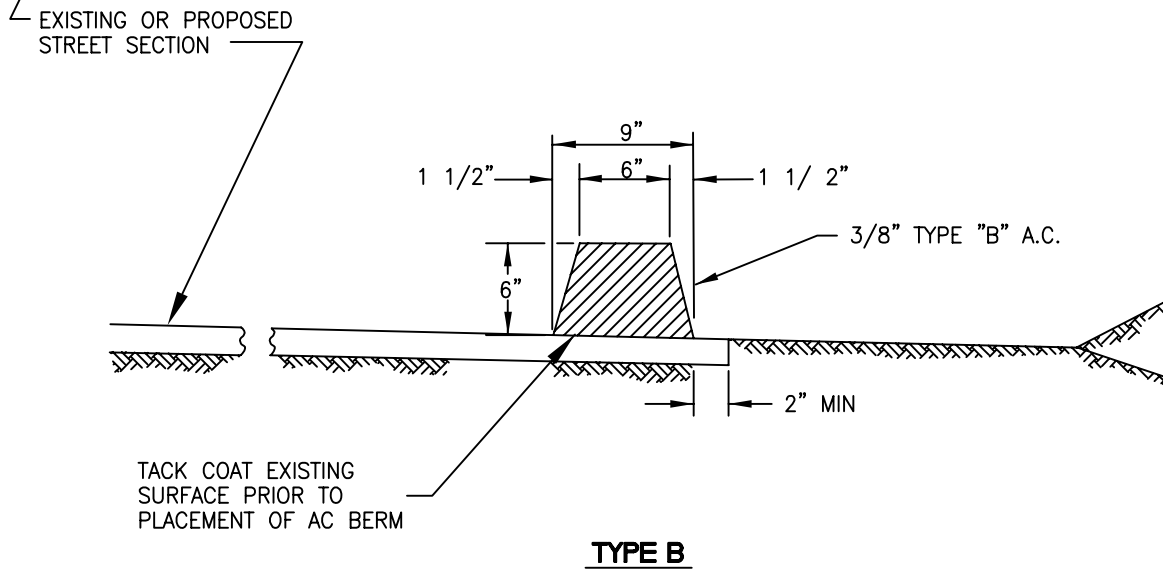
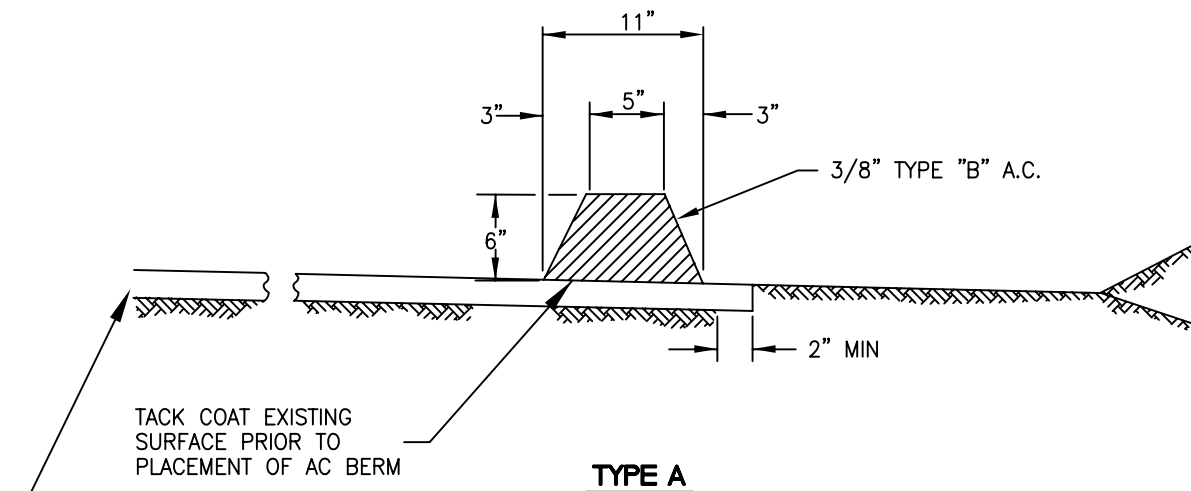
4/1/96  
DATE

REVISD

**STANDARD MEDIAN TAPER**

DRAWING  
NO.

**A-24**



**City of Morgan Hill**  
Public Works Department

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CITY ENGINEER

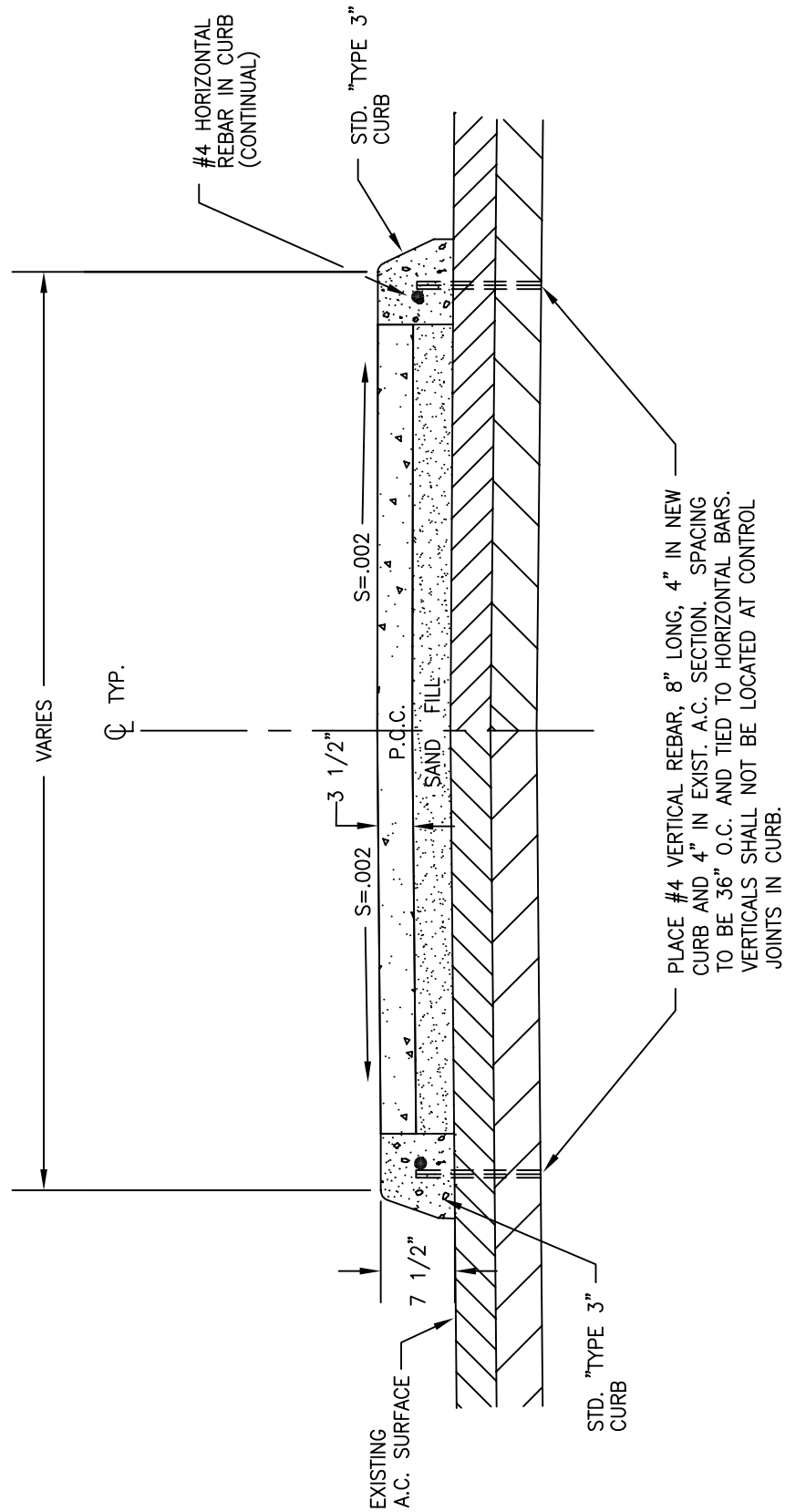
4/1/96  
DATE

REVISD

## ASPHALT CONCRETE BERM

DRAWING  
NO.

A-25



**NOTE:** CONTRACTOR TO PLACE BLOCK OUTS IN CONCRETE FOR SIGN POSTS PER APPROVED TRAFFIC PLAN.



**City of Morgan Hill**  
Public Works Department

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CITY ENGINEER

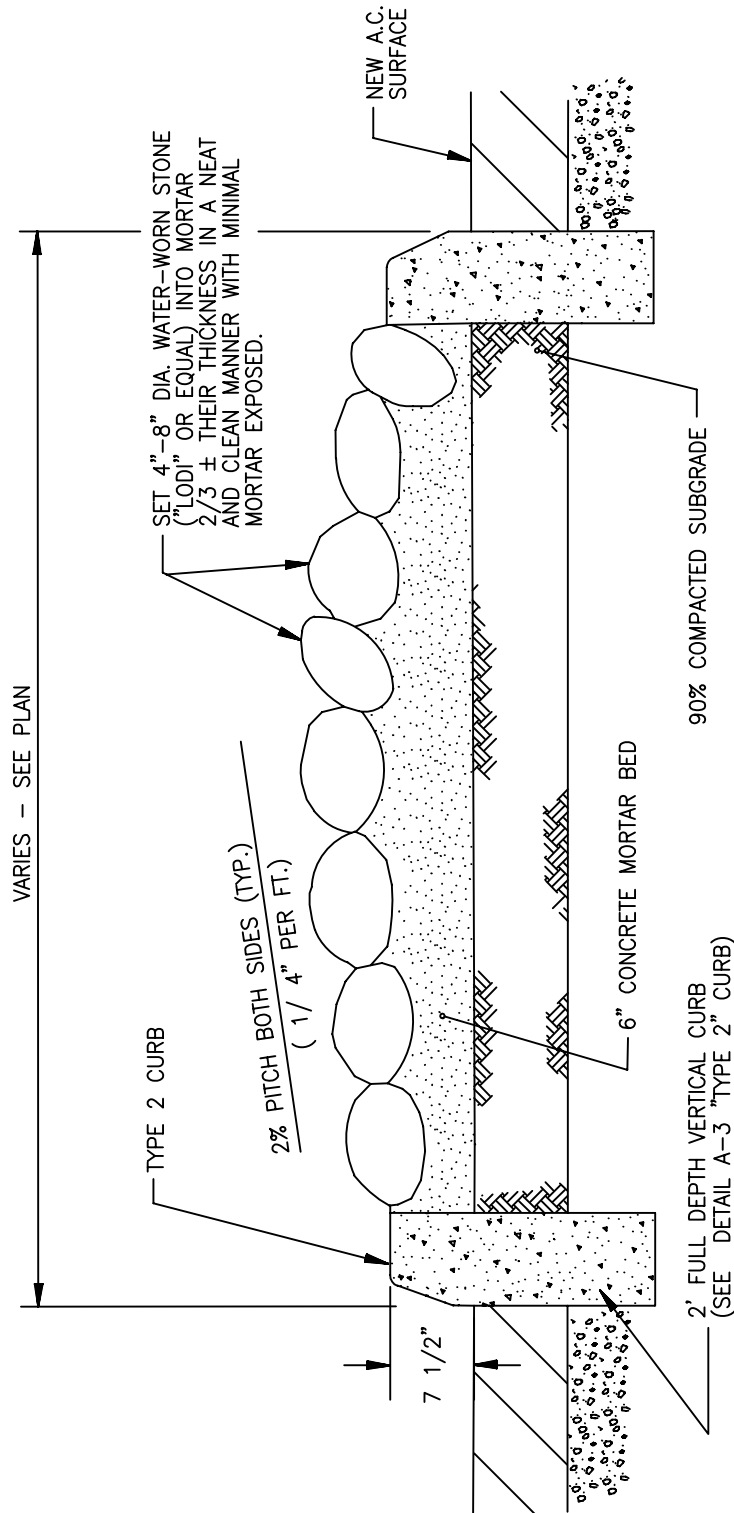
4/1/96  
DATE

5/1/06  
REVISED

## TEMPORARY PAVED MEDIAN ISLAND

DRAWING  
NO.

A-26



**NOTES:**

1. AFTER THE COBBLESTONE HAS BEEN SET INTO THE MORTAR, EXCESSIVE MORTAR BETWEEN THE JOINTS OF THE COBBLESTONES SHALL BE CAREFULLY REMOVED AND RAKED TO A SMOOTH JOINT (PROTRUSION OF MORTAR IS NOT ALLOWED).
2. SEAL FINAL SURFACE WITH WATER SEALER.
3. UPON CITY ENGINEER APPROVAL, THE MEDIAN CENTER MAY BE PAVED (P.C.C.) PER DETAIL A-26, PROVIDED THE "TYPE 2" CURB APPLICATION IS USED.
4. CONTRACTOR TO PLACE BLOCK OUTS IN COBBLE PATTERN AND/OR CONCRETE AREA FOR SIGN POSTS.



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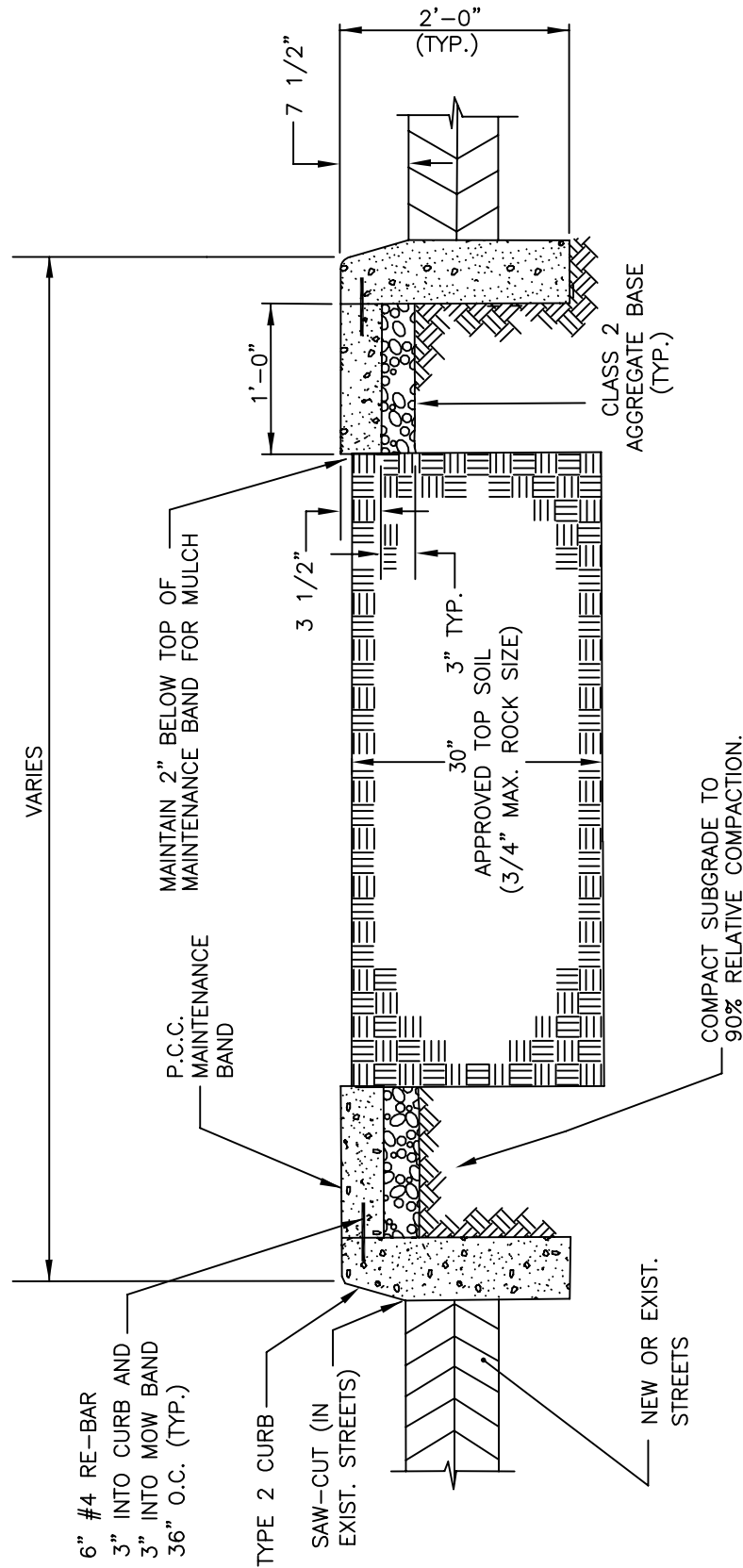
4/1/96  
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3/15/07  
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# COBBLESTONE MEDIAN ISLAND

DRAWING  
NO.

A-27



**City of Morgan Hill**  
Public Works Department

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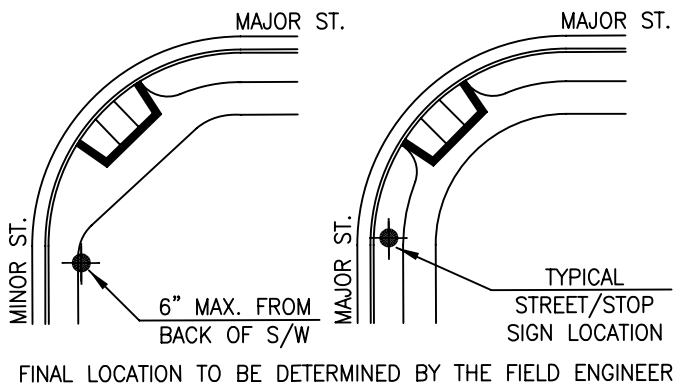
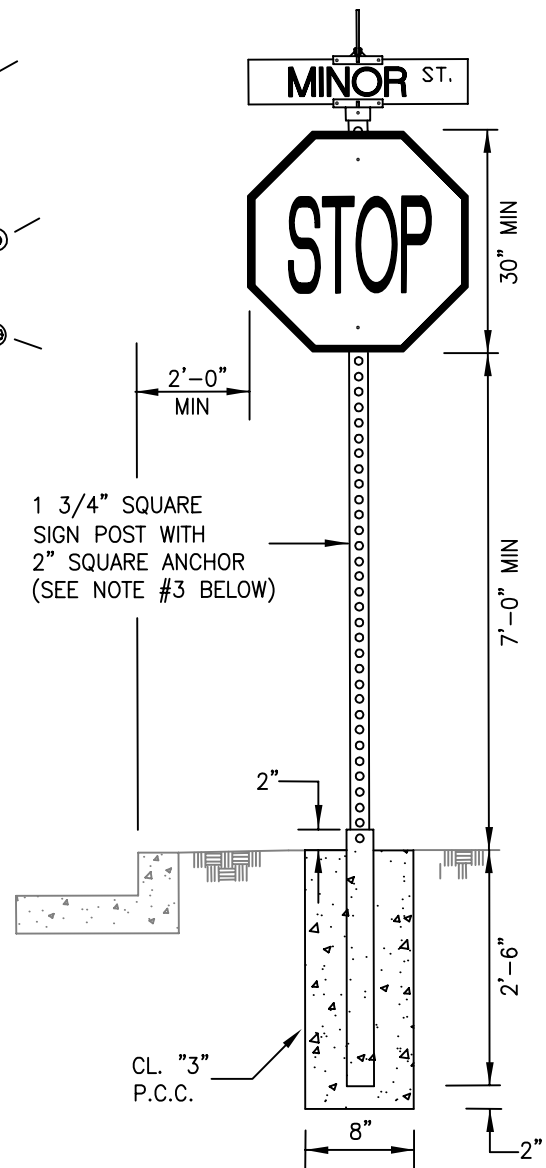
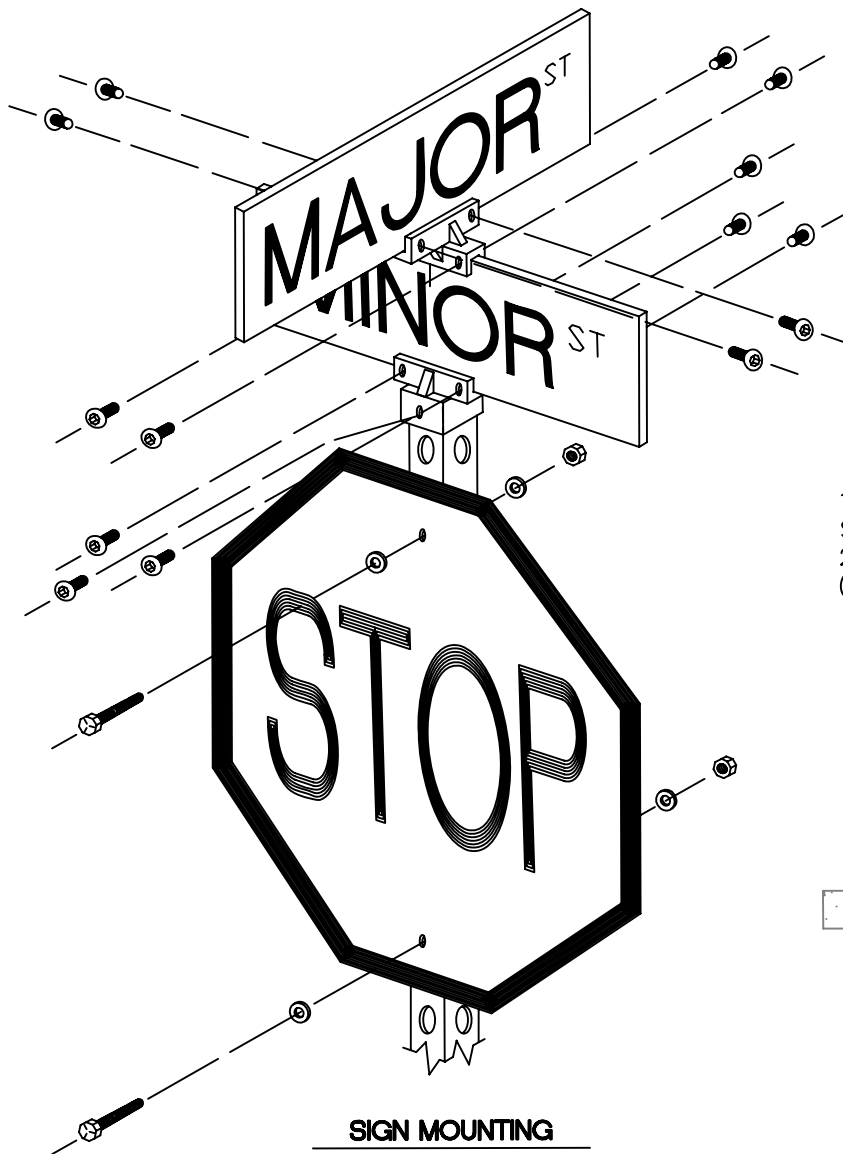
4/1/96  
DATE

3/15/07  
REVISED

## LANDSCAPE MEDIAN ISLAND

DRAWING  
NO.

A-28



#### NOTES:

1. STREET NAMES SHALL BE IN 4" HIGH LETTERS AND ABBREVIATIONS IN 2" HIGH LETTERS. LETTERS SHALL BE "SCOTCHLITE #2270-AR" OR APPROVED EQUAL. BACKGROUND SHALL BE "INTER-STATE BLUE" PER STATE OF CALIFORNIA SPECS.
2. STREET NAME SIGN SHALL BE "WESTERN HIGHWAY PRODUCTS AF-6/AF-9" OR APPROVED EQUAL. FLAT PLATE ALUMINUM, WITHOUT BORDER.
3. POST SHALL BE "TELESPAR" 1 3/4" SQUARE SIGN POST WITH "TELESPAR" 2" SQUARE ANCHOR OR APPROVED EQUAL. SIGN MOUNTING HARDWARE SHALL BE "WESTERN HIGHWAY PRODUCTS 850F" SQUARE POST CAP/SIGN BRACKET WITH 606FCS SIGN TO SIGN BRACKET (ALL HARDWARE FOR 6" SIGN PLATES AS SHOWN).



**City of Morgan Hill**  
Public Works Department

*Jim Cochcroft*  
CITY ENGINEER

4/1/96  
DATE

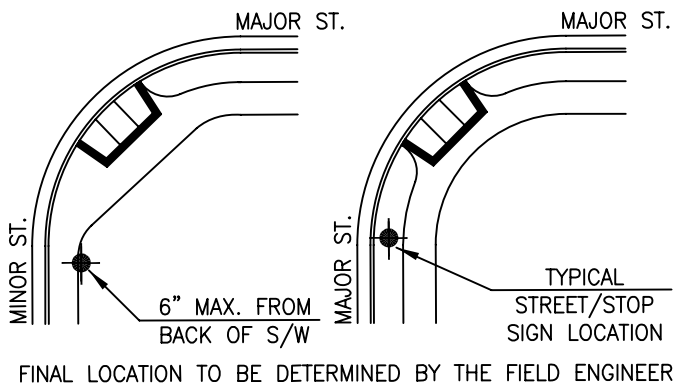
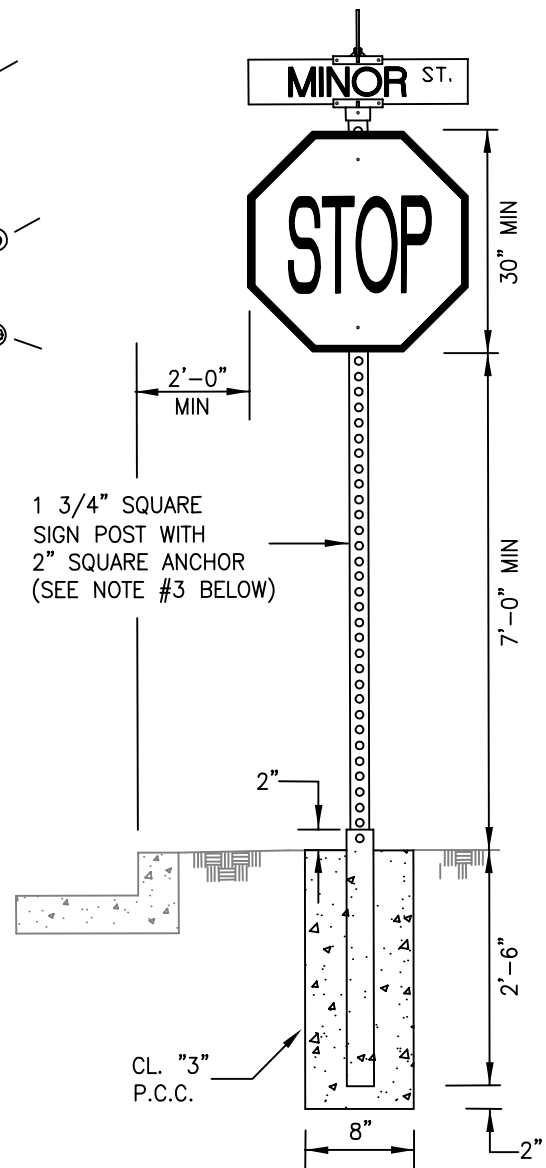
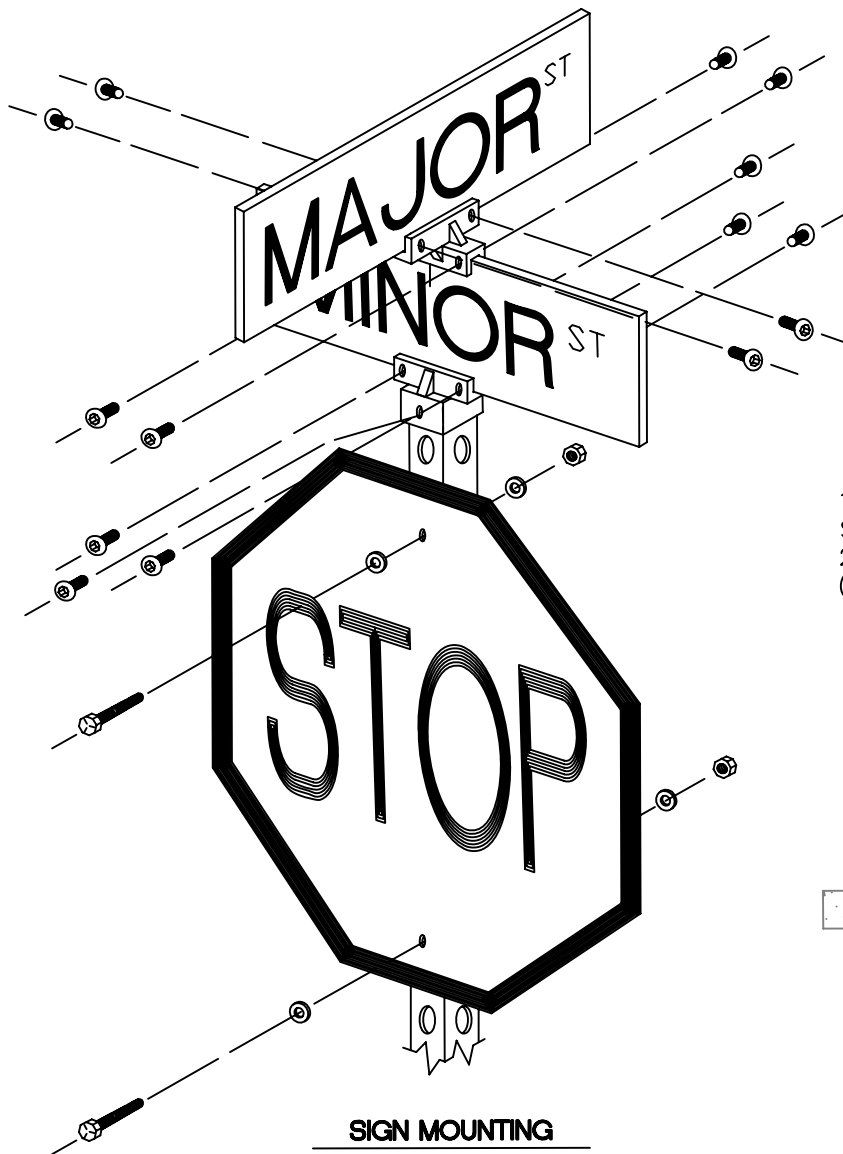
3/15/06  
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STREET NAME/STOP SIGN

DRAWING  
NO.

A-29





#### LOCATION - PLAN VIEW

#### NOTES:

1. STREET NAMES SHALL BE IN 4" HIGH LETTERS AND ABBREVIATIONS IN 2" HIGH LETTERS. LETTERS SHALL BE "SCOTCHLITE #2270-AR" OR APPROVED EQUAL. BACKGROUND SHALL BE "INTER-STATE BLUE" PER STATE OF CALIFORNIA SPECS.
2. STREET NAME SIGN SHALL BE "WESTERN HIGHWAY PRODUCTS AF-6/AF-9" OR APPROVED EQUAL. FLAT PLATE ALUMINUM, WITHOUT BORDER.
3. POST SHALL BE "TELESPAR" 1 3/4" SQUARE SIGN POST WITH "TELESPAR" 2" SQUARE ANCHOR OR APPROVED EQUAL. SIGN MOUNTING HARDWARE SHALL BE "WESTERN HIGHWAY PRODUCTS 850F" SQUARE POST CAP/SIGN BRACKET WITH 606FCS SIGN TO SIGN BRACKET (ALL HARDWARE FOR 6" SIGN PLATES AS SHOWN).



**City of Morgan Hill**  
Public Works Department

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CITY ENGINEER

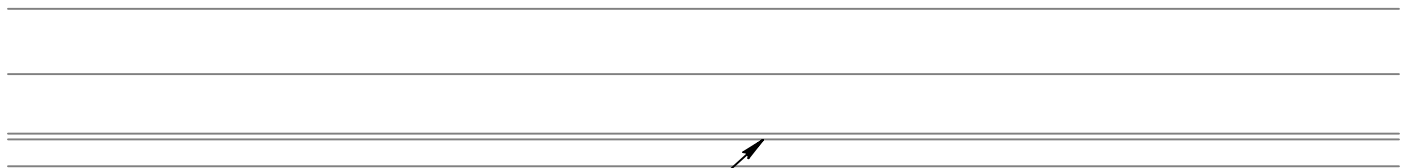
4/1/96  
DATE

3/15/06  
REVISED

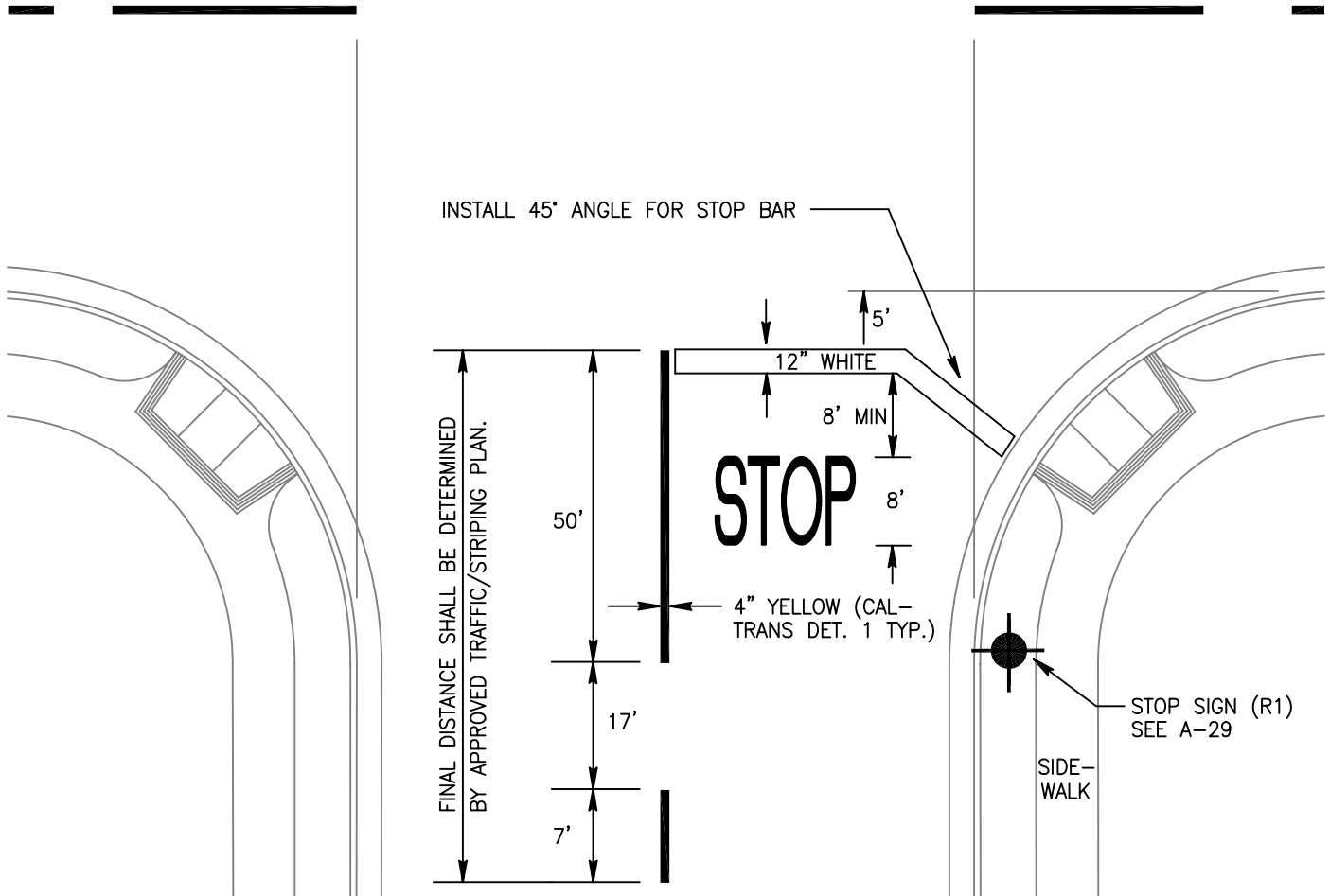
STREET NAME/STOP SIGN

DRAWING  
NO.

A-29



FACE OF CURB



**NOTES:**

1. FINAL SIGN LOCATION AND STRIPING LAYOUT SHALL BE FIELD VERIFIED BY THE ENGINEER AFTER "CAT-TRACKING" AND PRIOR TO FINAL STRIPING APPLICATION.
2. ALL CENTERLINE STREET STRIPING SHALL BE YELLOW THERMAL PLASTIC PAINT WITH GLASS BEADS. THE STOP BAR AND "STOP" LEGEND LETTERING SHALL BE WHITE THERMAL PLASTIC PAINT WITH GLASS BEADS. THERMAL PLASTIC PAINT APPLICATIONS SHALL COMPLY WITH CALIFORNIA STATE SPECIFICATIONS SECTION 84-2.02 AND SHALL COMPLY WITH ALL APPLICABLE BAAQMD (BAY AREA AIR QUALITY MANAGEMENT DISTRICT) REGULATIONS FOR THERMAL PLASTIC PAINT.



**City of Morgan Hill**  
Public Works Department

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CITY ENGINEER

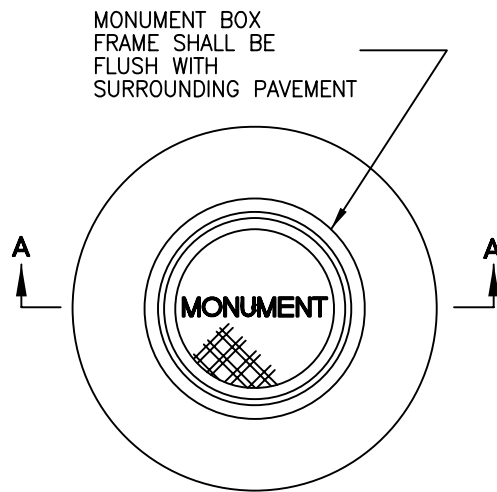
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3/15/07  
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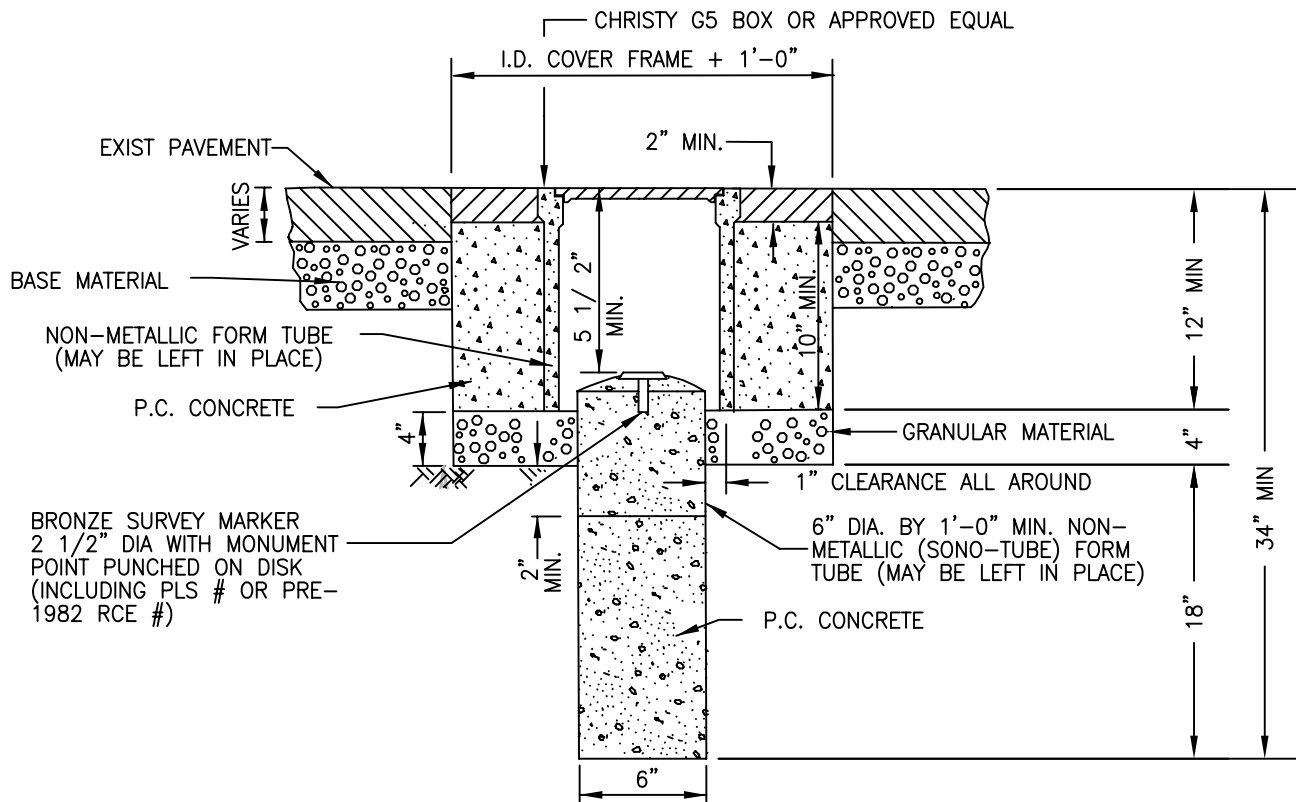
**STREET STRIPING & STOP BAR**

DRAWING  
NO.

**A-30**



**COVER INSTALLATION  
PLAN VIEW**



**SECTION A-A  
STANDARD MONUMENT INSTALLATION**



**City of Morgan Hill**  
Public Works Department

*Jim Cochcroft*  
CITY ENGINEER

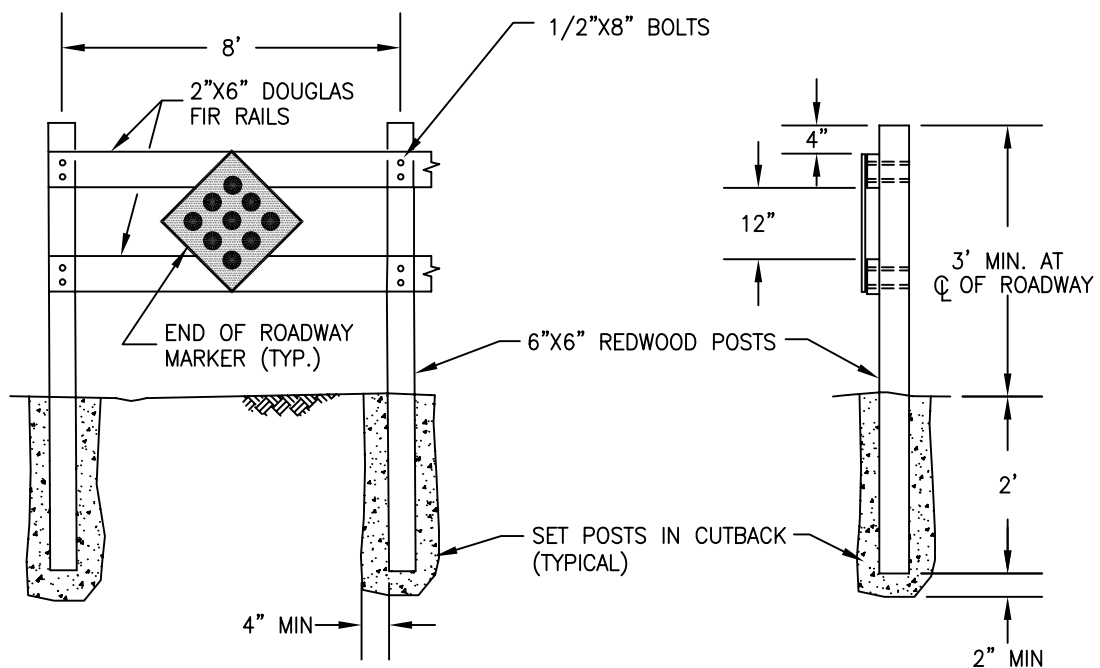
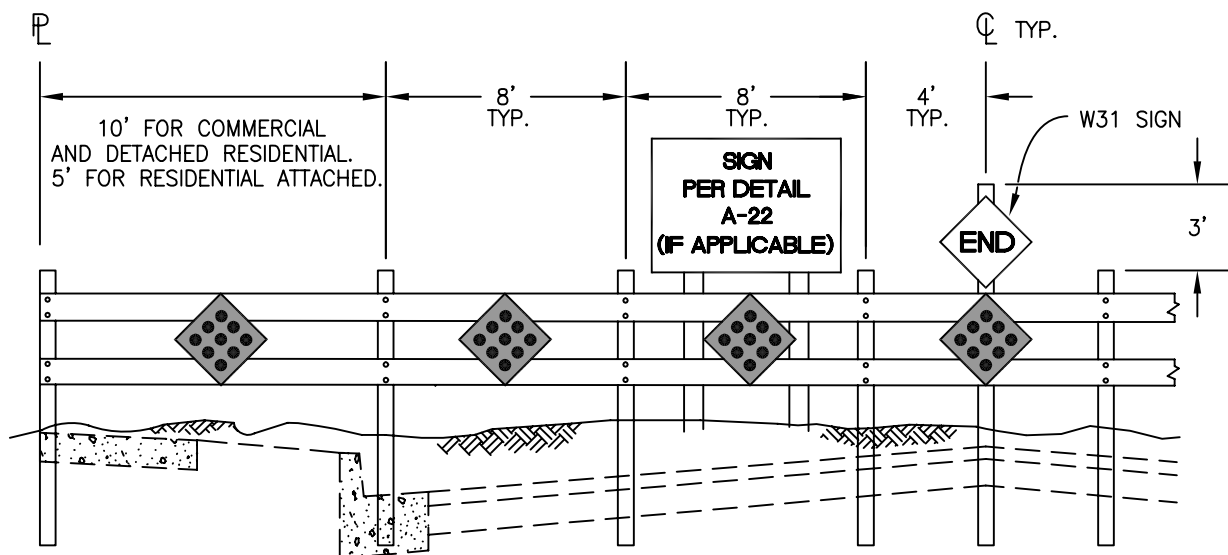
4/1/96  
DATE

3/15/07  
REVISED

**STANDARD CITY MONUMENT**

DRAWING  
NO.

**A-31**



# **NOTES:**

1. PAINT ALL EXPOSED WOOD SURFACES WITH ONE APPLICATION OF EXTERIOR WOOD PRIMER AND TWO COATS EXTERIOR WHITE ENAMEL.
2. SECURE EACH JOINT WITH TWO GALVANIZED 1/2"x8" BOLTS. ALL RAIL ENDS TO MEET AT CL OF POSTS
3. PLACE AASHTO OM4-1 "END OF ROADWAY" MARKERS IN EACH SECTION AS SHOWN.
4. RAILS TO BE CONSTRUCTION GRADE DOUGLAS FIR S4S 2" x 6", POSTS TO BE CONSTRUCTION GRADE REDWOOD S4S 6" x 6".



**City of Morgan Hill**  
Public Works Department

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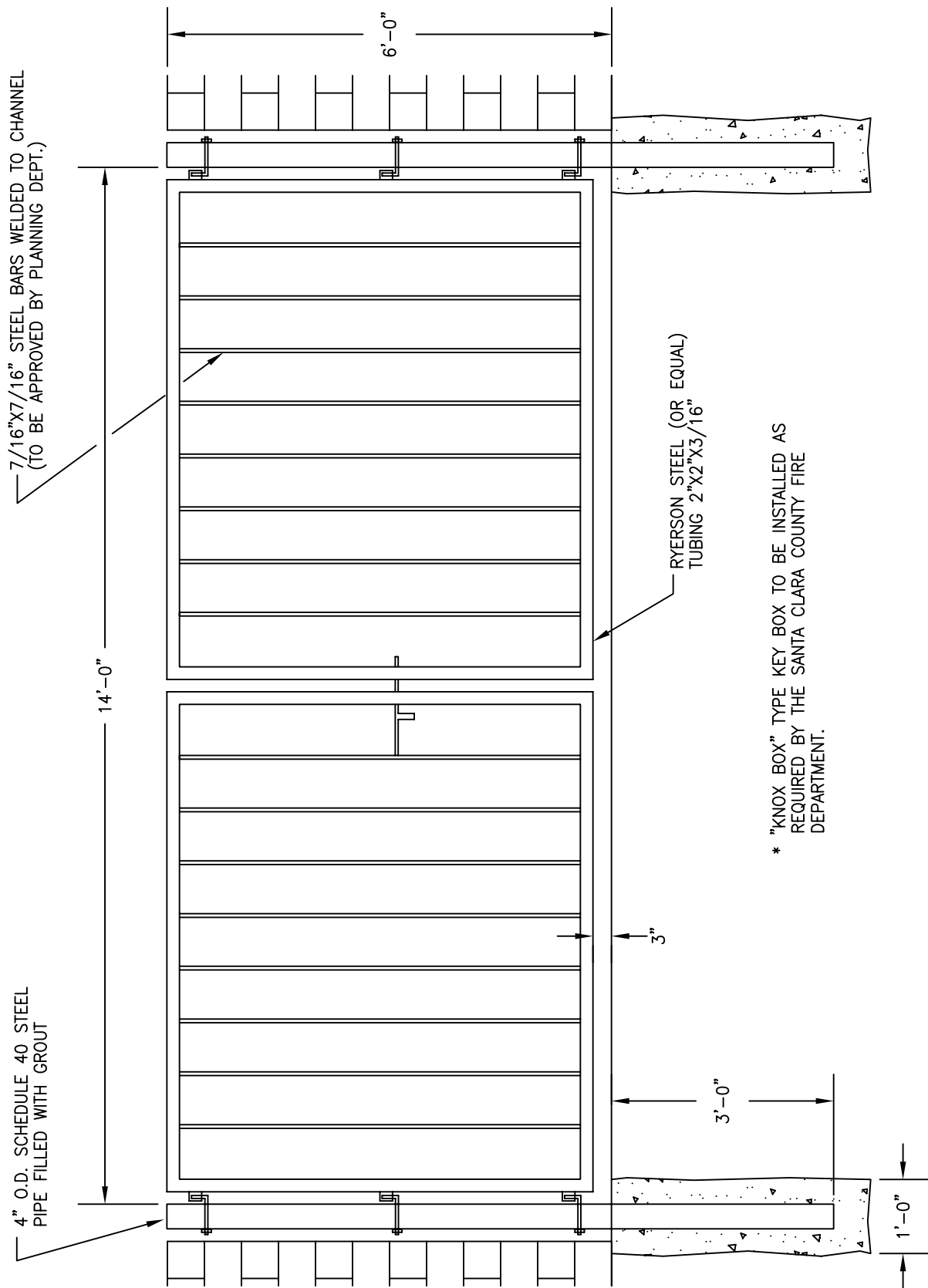
4/1/96  
DATE

3/15/07  
REVISED

## **STREET BARRICADE**

DRAWING  
NO.

**A-32**



**City of Morgan Hill**  
Public Works Department

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CITY ENGINEER

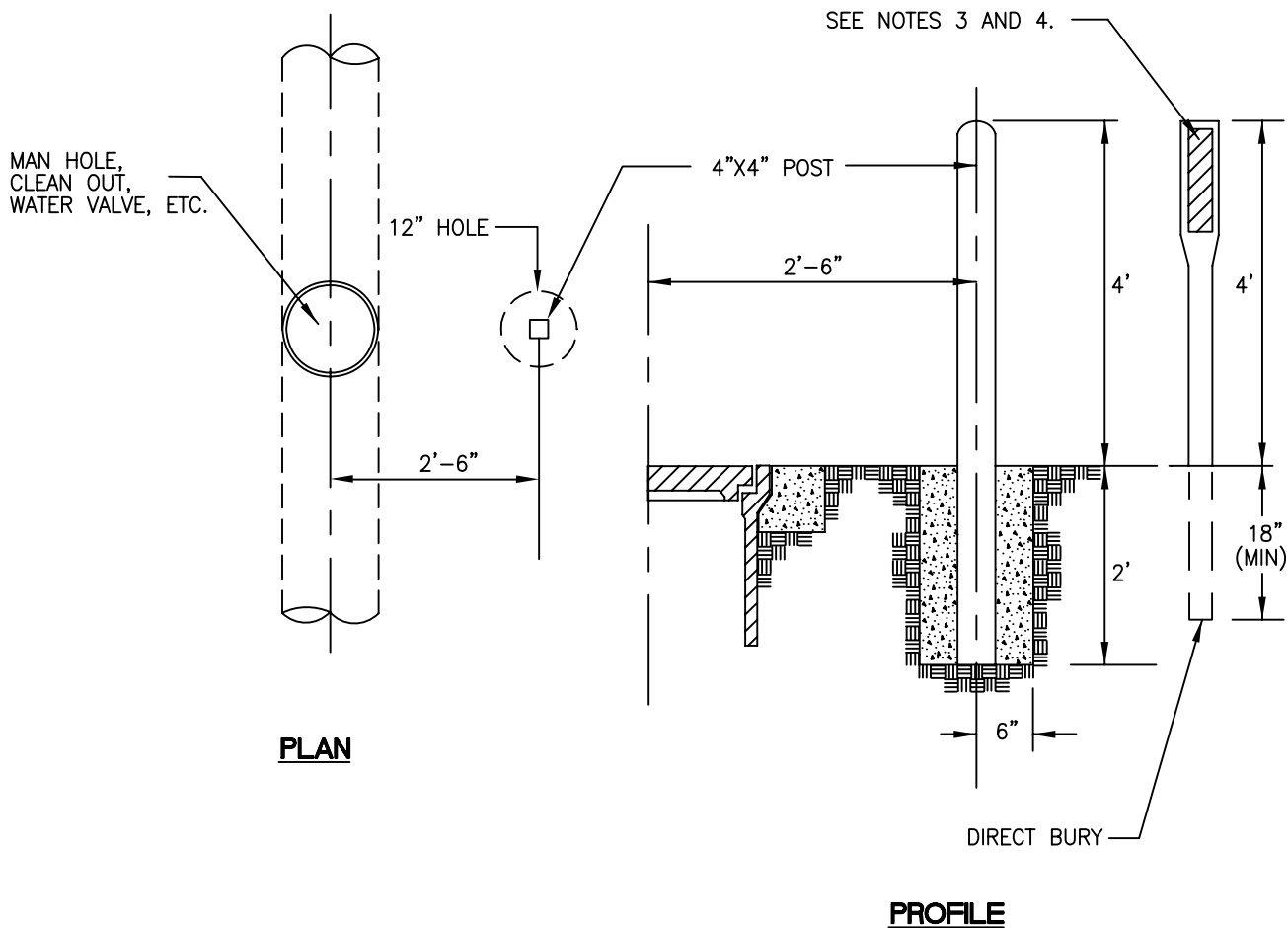
4/1/96  
DATE

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## EMERGENCY ACCESS GATE

DRAWING  
NO.

A-33



**NOTES:**

1. MARKER POSTS SHALL BE USED IN UNIMPROVED EASEMENTS AND RIGHT OF WAYS TO LOCATE MANHOLES, WATER VALVES, FLUSHING INLETS, BLOWOFFS, AND OTHER FACILITIES AS REQUIRED BY THE CITY ENGINEER.
2. POSTS SHALL BE COATED WITH ONE APPLICATION OF WOOD PRIMER AND TWO COATS OF EXTERIOR ENAMEL (SEE NOTE 4 FOR COLOR).
3. FIBER-GLASS PADDLE MARKERS. (CALTRANS CLASS I FLEXIBLE POST DELINEATORS MAY BE USED IN LIEU OF WOOD POSTS)
4. COLOR TO CONFORM WITH USA LOCATE STANDARDS (GREEN FOR SEWER, BLUE FOR WATER, ETC.).
5. PORTION OF POST SET IN CONCRETE SHALL BE TREATED TO PREVENT ROTTING.



**City of Morgan Hill**  
Public Works Department

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CITY ENGINEER

4/1/96  
DATE

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**MARKER POSTS IN EASEMENTS**

DRAWING  
NO.

**A-34**