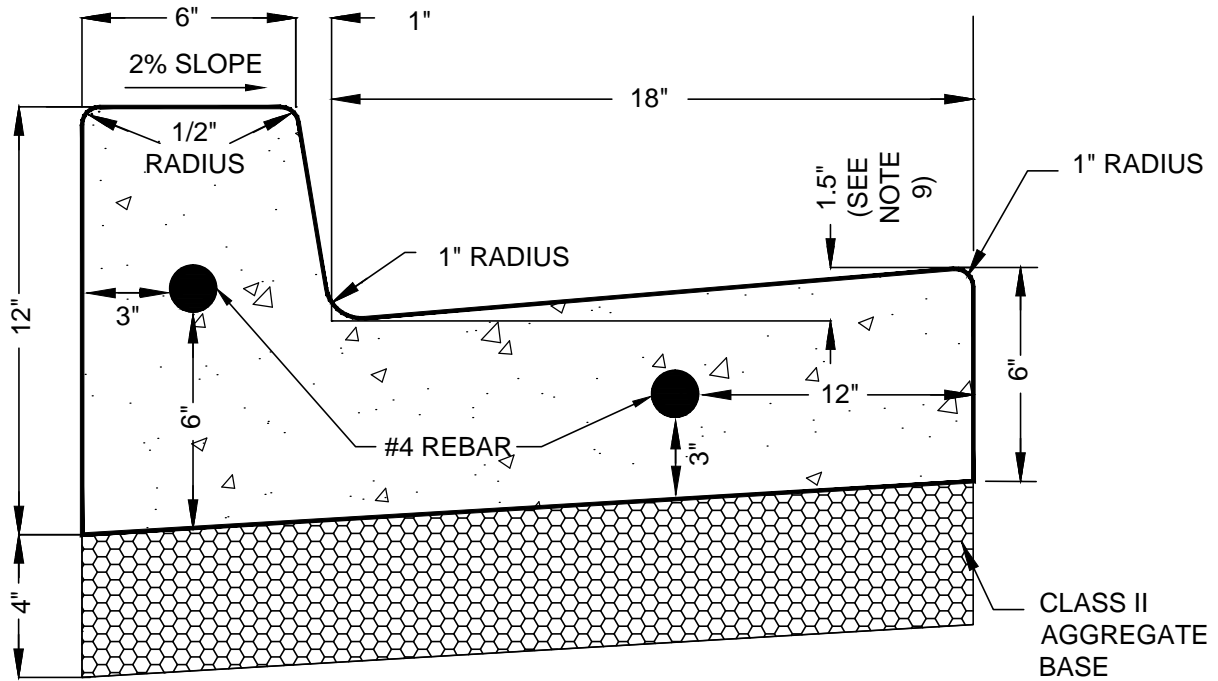


INDEX

Detail No.	Detail Title
1	Concrete Curb & Gutter
2	Concrete Vertical Curb
3	Concrete Rolled Curb
4	Concrete Valley Gutter
5	Monolithic & Separated Concrete Sidewalk
6	Concrete Driveway with Planter
7	Concrete Driveway Without Planter
8	Driveway & Intersection Sight Triangles
9	Driveway to Sidewalk Reconstruction
10	Curb Ramp "Case E"
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12	Curb Ramp "Case CM"
13	Curb Ramp Typical Locations
14	Manhole/Catch Basin & Valve Box Adjustment
15	Tree Planting Detail
16	Tree Planting Specifications

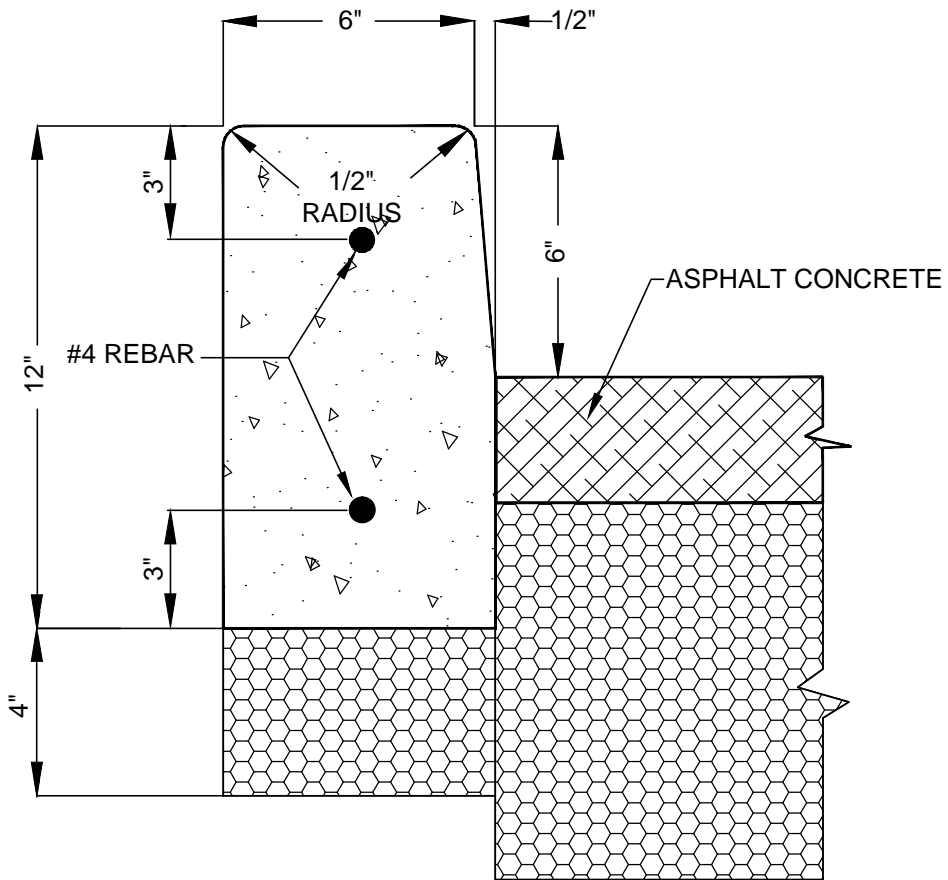


NOTES:

1. ALL RADII LESS THAN 100' SHALL USE FLEXIBLE WOOD OR METAL FORMS TO ELIMINATE ANGULAR POINTS AT 10' SECTION POINTS.
2. SAWCUT AND REMOVE 18 IN. (MIN.) STREET SECTION FOR CURB AND GUTTER INSTALLATION ON EXISTING STREETS.
3. 3/4" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS & COLD JOINTS OR A MAX. OF 30' C/C. EXPANSION JOINTS SHALL PROTRUDE 1" BELOW THE BOTTOM OF GUTTER
4. THRU JOINTS SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AT POINTS OF TANGENCY ON STREETS, AND AT ALLEY AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 30' PRE-MOLDED JOINT FILLER, SHALL BE 1/2" WIDE AND CONFORM TO AASHTO DESIGN M213. DUMMY JOINTS SHALL BE PLACED EVERY 10'.
5. FINISHED WORK SHALL NOT VARY MORE THAN 1/8" IN GRADE AND 1/4" IN ALIGNMENT.
6. THE FINISHED CURB SHALL IMMEDIATELY BE SPRAYED WITH A TRANSPARENT CURING COMPOUND. CURB SHALL BE COVERED BY WATERPROOF PAPER OR PLASTIC MEMBRANE IN THE EVENT OF RAIN OR OTHER UNSUITABLE WEATHER. CURING TIME SHALL BE A MINIMUM OF 72 HOURS.
7. ALL CURB AND GUTTER SHALL BE PLACED ON A MIN. OF 4" AGGREGATE BASE CLASS II 95% MAX. COMPACTION ASTM D1557
8. #4 REBAR SHALL BE EXTENDED ALONG LENGTH OF THE CURB AND GUTTER
9. GUTTER PAN SLOPE SHALL NOT EXCEED 5% SLOPE AT PEDESTRIAN CURB RAMP ENTRY LOCATIONS. CONTRACTOR SHALL USE 1.2" (MAX) BETWEEN LIP OF GUTTER AND FLOWLINE AT THESE LOCATIONS.
10. ALL CONCRETE SHALL INCLUDE ONE (1) POUND OF LAMP BLACK PER CUBIC YARD OF CONCRETE.
11. ALL CURB AND GUTTER SHALL HAVE 2 #4 REBARS THE ENTIRE LENGTH AND EMBEDDED ON BOTH ENDS USING DOWELS (ONE DOWEL IN THE CENTER OF THE GUTTER, ONE DOWEL IN THE CENTER OF THE CURB.)

NOT TO SCALE


APPROVED BY	DATE		CONCRETE CURB AND GUTTER	STD. PLAN NO.
<i>Ramin Rafiqi</i>	APRIL 2014			1
CITY ENGINEER				

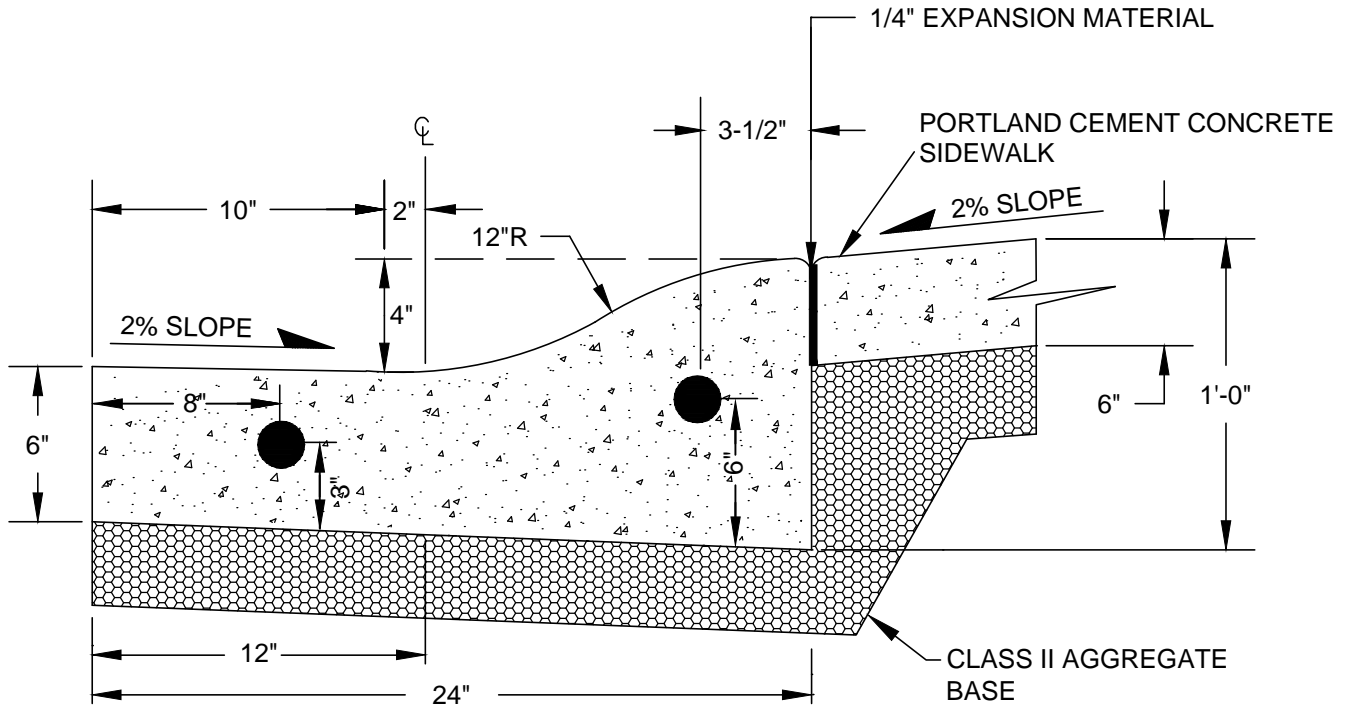


NOTES:

1. THE CONSTRUCTION NOTES OF STD. DETAIL 1 APPLY TO CONCRETE VERTICAL CURB.

NOT TO SCALE


APPROVED BY	DATE		CONCRETE VERTICAL CURB	STD. PLAN NO.
<i>Kevin Abfari</i>	APRIL 2014			2
CITY ENGINEER				

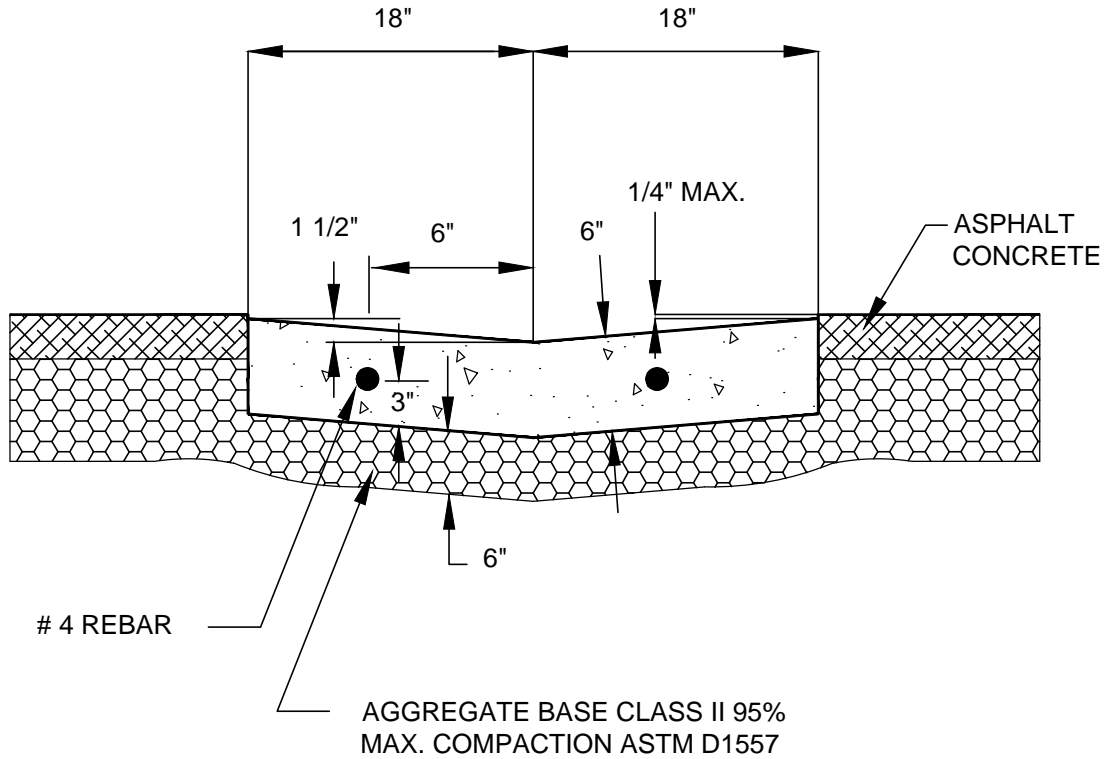


NOTES:

1. EXPANSION JOINTS OF ONE OF THESE TYPES SHOWN ABOVE TO BE PLACED 10' C/C. JOINTS MAY BE MADE BY INSERTING MIN. 3/16" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
2. FINISHED WORK SHALL NOT VARY MORE THAN 1/8 " IN GRADE AND 1/4" IN ALIGNMENT.
3. EXPOSED SURFACES SHALL BE LIGHT BROOM FINISH.
4. SIDEWALKS BEHIND ROLLED CURBS SHALL BE A MINIMUM OF 6" THICK.
5. CONCRETE SHALL INCLUDE ONE (1) POUND OF LAMP BLACK PER CUBIC YARD OF CONCRETE.
6. #4 REBAR SHALL BE EXTENDED ALONG LENGTH OF GUTTER.
7. ALL CURB AND GUTTER SHALL BE PLACED ON A MIN. OF 4" AGGREGATE BASE CLASS II 95% MAX. COMPACTION ASTM D1557.

NOT TO SCALE


APPROVED BY	DATE		CONCRETE ROLLED CURB	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			3
CITY ENGINEER				

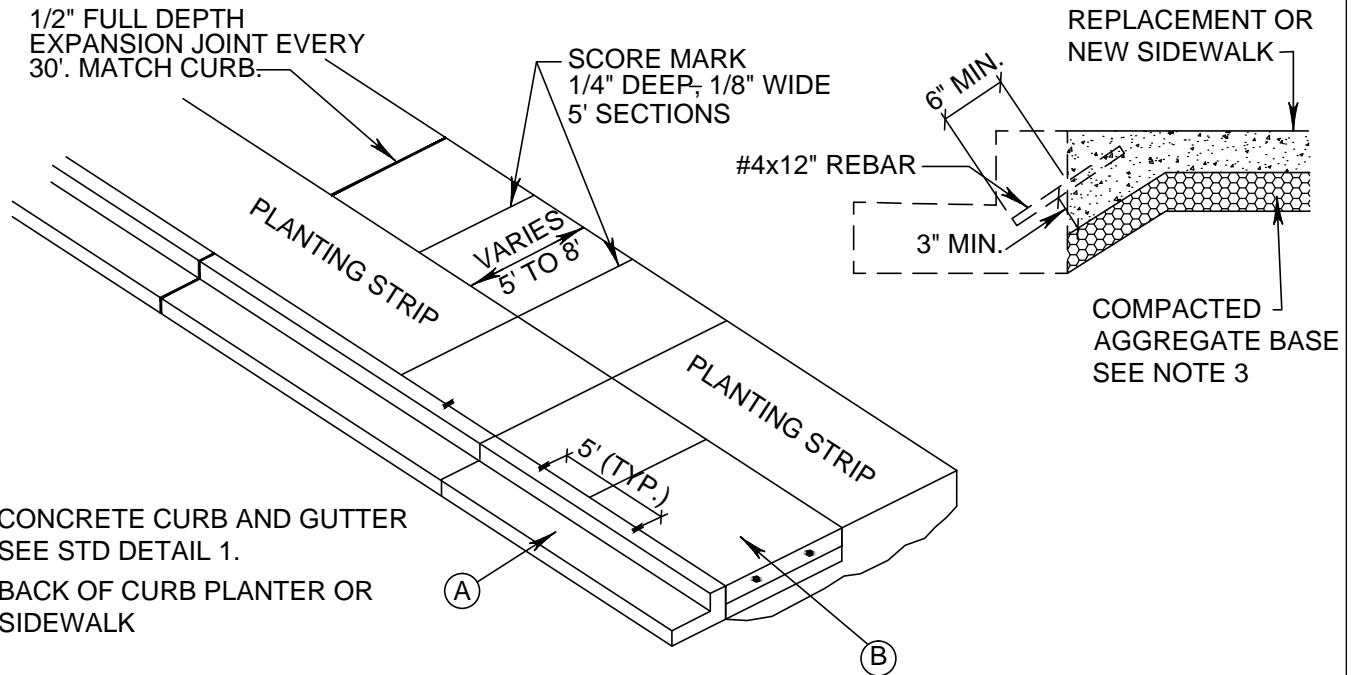


NOTES:

1. EXPANSION JOINTS WITH 1/2" x 12" SLIP.
2. DOWELS AT 20 FEET INTERVALS.
3. CONCRETE SHALL BE CLASS A.
4. ALL CONCRETE SHALL INCLUDE ONE (1) POUND OF LAMP BLACK PER CUBIC YARD OF CONCRETE.

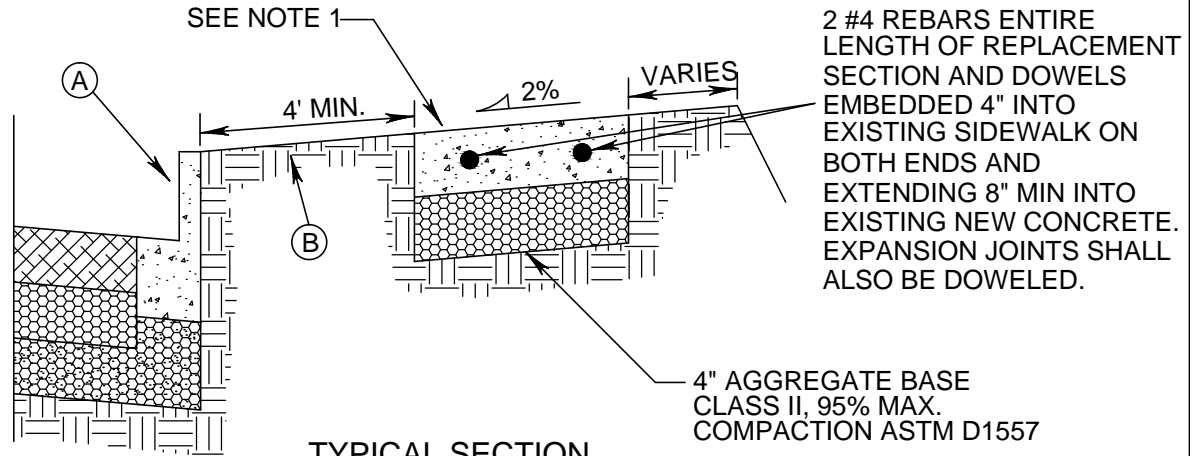
NOT TO SCALE

APPROVED BY	DATE		CONCRETE VALLEY GUTTER	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			4
CITY ENGINEER				



- (A) CONCRETE CURB AND GUTTER
SEE STD DETAIL 1.
- (B) BACK OF CURB PLANTER OR
SIDEWALK

PLAN VIEWS



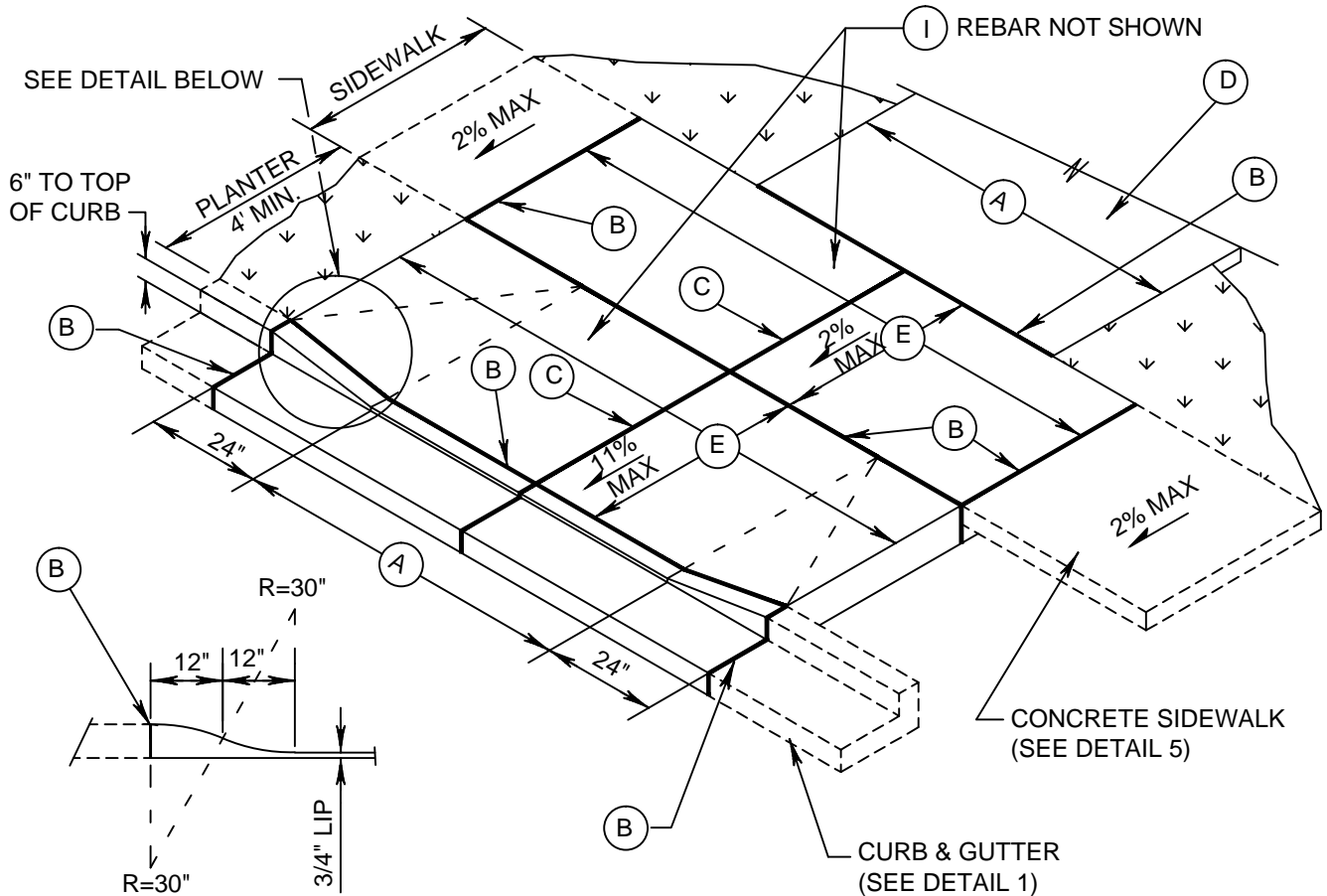
TYPICAL SECTION

NOTES:

1. SIDEWALKS SHALL BE A MINIMUM OF 4" THICK, AND SHALL BE CLASS A PORTLAND CEMENT CONCRETE.
2. FULL EXPANSION JOINTS SHALL BE PLACED TO MATCH THOSE PLACED IN ADJACENT CURB & GUTTER, WITH MAXIMUM SPACING OF 30 FEET.
3. SUBGRADE SHALL HAVE 95% MAXIMUM COMPACTION ASTM D1557
4. SIDEWALK SHALL BE AT LEAST 6" THICK BEHIND ROLLED CURB AND RESIDENTIAL DRIVEWAYS AND 8" THICK BEHIND COMMERCIAL DRIVEWAYS.
5. THE FINISHED SIDEWALK SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS.
6. ALL JOINTS SHALL BE CLEANED AND EDGED WITH AN EDGER HAVING A 1/4" RADIUS.
7. SIDEWALK AND PLANTER STRIP WIDTHS SHALL CONFORM TO DIMENSIONS SHOWN IN APPROPRIATE STREET CROSS SECTION DETAIL.
8. THE WIDTH OF SIDEWALKS DIRECTLY BEHIND CURB WITHOUT PLANTER SHALL BE A MIN. OF 5' FROM BACK OF CURB.
9. CONCRETE SHALL INCLUDE ONE (1) POUND OF LAMP BLACK PER CUBIC YARD OF CONCRETE.
10. EXPOSED SURFACES SHALL BE A LIGHT BROOM FINISH.

NOT TO SCALE

APPROVED BY	DATE		MONOLITHIC & SEPARATED CONCRETE SIDEWALK	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			5
CITY ENGINEER				



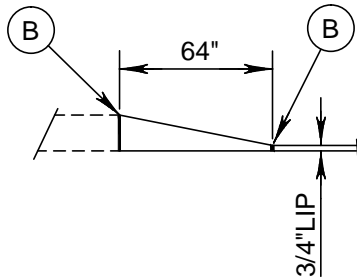
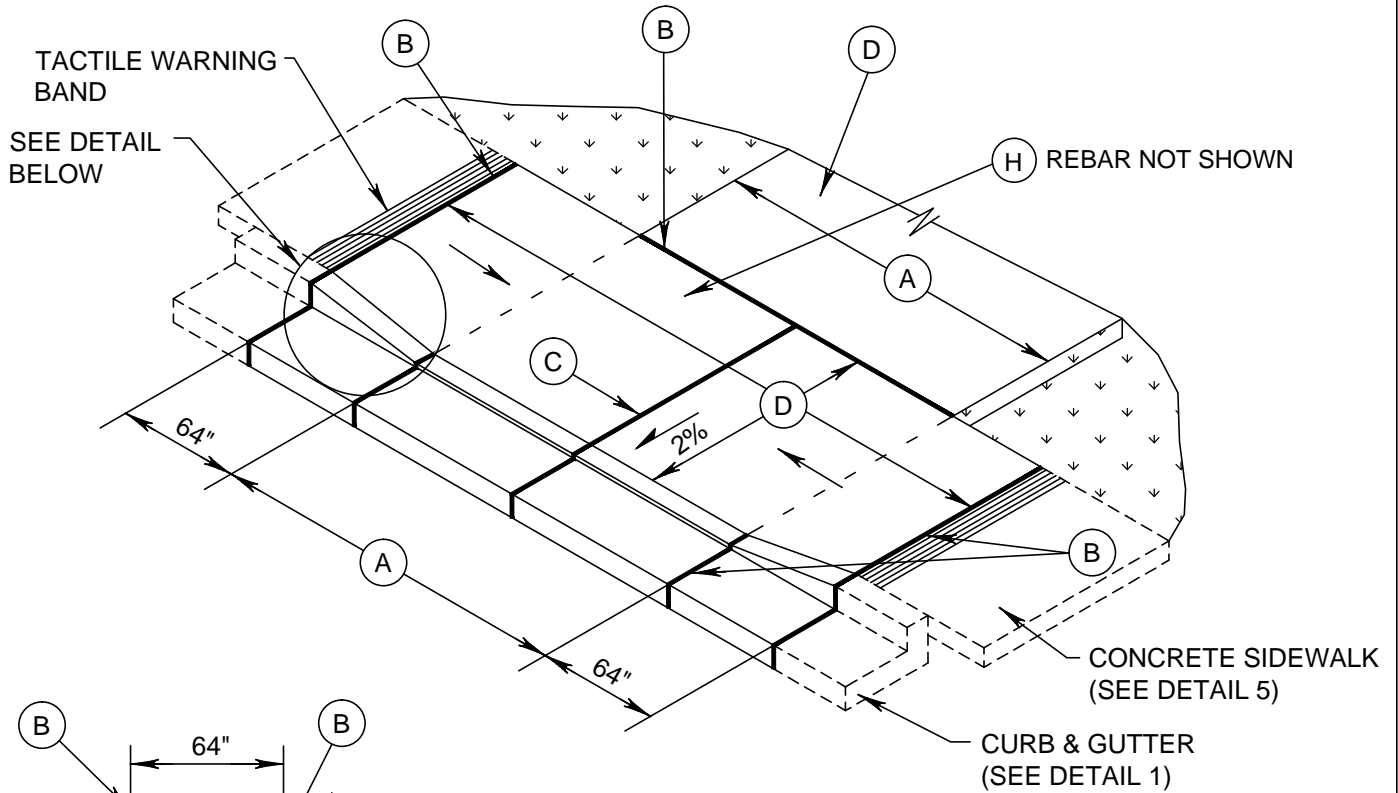
CURB TRANSITION DETAIL

REBAR: #4 @ 16" O.C. BOTH WAYS, MIN. 3" CONCRETE COVERAGE

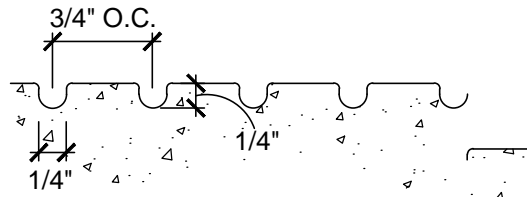
- (A) EQUALS WIDTH OF DRIVEWAY AT PROPERTY LINE, (14' MIN. - 30' MAX. RESIDENTIAL & 25' MIN.-30' MAX. COMMERCIAL)
- (B) 1/2" WIDE FULL DEPTH EXPANSION JOINT.
- (C) FULL DEPTH EXPANSION JOINT IF (A) IS 15' OR GREATER.
- (D) DRIVEWAY TO BE SURFACED WITH ASPHALT OR CONCRETE.
- (E) DRIVEWAY CONCRETE SHALL BE A MIN. OF 6" THICK FOR RESIDENTIAL & 8" THICK FOR COMMERCIAL & IS TO BE PLACED ON A MIN. OF 4" CLASS II AGGREGATE BASE 95% MAX. COMPACTION ASTM D1557, OVER COMPACTED SUBGRADE (95%).
- (F) ALL CONCRETE SHALL BE CLASS A, PER CALTRANS SPECIFICATIONS, WITH 1 LB. (MIN.) LAMP BLACK PER CUBIC YARD.
- (G) SAWCUT & REMOVE 18" (MIN.) STREET SECTION FOR DRIVEWAY INSTALLATION IN EXISTING STREETS.
- (H) ALL WORK SHALL CONFORM TO CURRENT ADA REQUIREMENTS.
- (I) #4 REBAR 16" O.C. BOTH WAYS MIN. 3" COVER.

NOT TO SCALE

APPROVED BY	DATE		CONCRETE DRIVEWAY WITH PLANTER	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			6
CITY ENGINEER				



CURB TRANSITION DETAIL



TACTILE WARNING BAND (SECTION)
N.T.S.

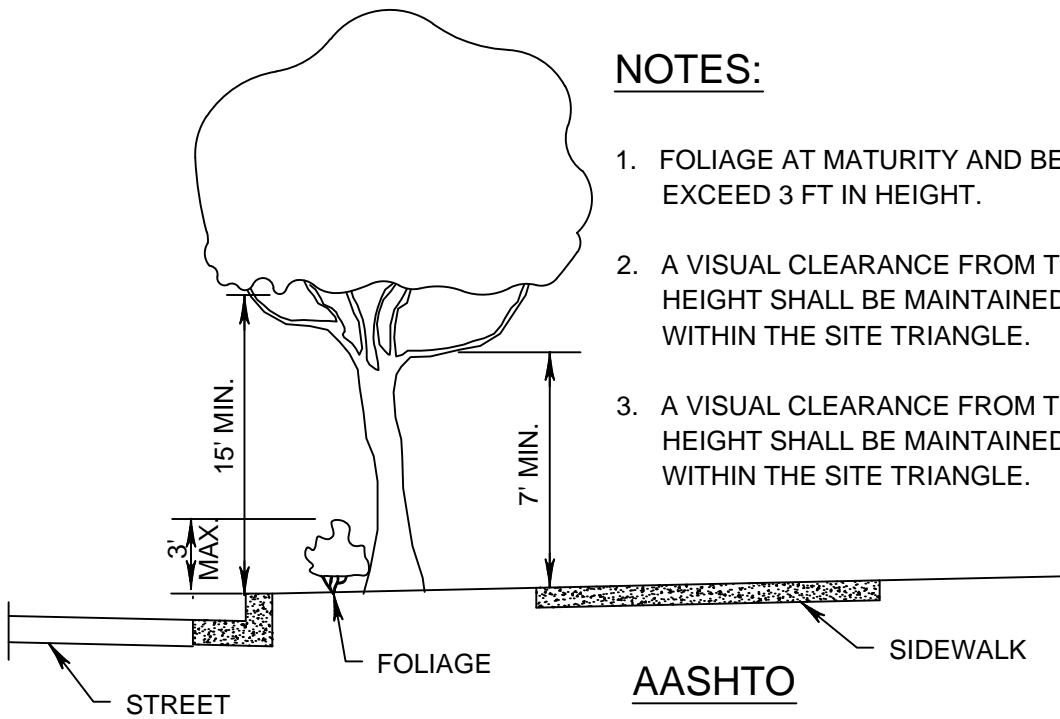
- (A) EQUALS WIDTH OF DRIVEWAY AT PROPERTY LINE, MINIMUM WIDTH = 14'
- (B) 1/2" WIDE FULL DEPTH EXPANSION JOINT.
- (C) FULL DEPTH EXPANSION JOINT IF (A) IS 15' OR GREATER.
- (D) DRIVEWAY TO BE SURFACED WITH ASPHALT OR CONCRETE.
- (E) DRIVEWAY CONCRETE SHALL BE A MIN. OF 6" THICK FOR RESIDENTIAL & 8" THICK FOR COMMERCIAL & IS TO BE PLACED ON A MIN. OF 6" CLASS II AGGREGATE BASE 95% MAX. COMPACTION ASTM D1557, OVER COMPACTED SUBGRADE (95%).
- (F) ALL CONCRETE SHALL BE CLASS A, PER CALTRANS SPECIFICATIONS, WITH 1 LB. (MIN.) LAMP BLACK PER CUBIC YARD.
- (G) SAWCUT & REMOVE 18" (MIN.) STREET SECTION FOR DRIVEWAY INSTALLATION IN EXISTING STREETS.
- (H) ALL WORK SHALL CONFORM TO CURRENT ADA REQUIREMENTS.
- (I) #4 REBAR 16" O.C. BOTH WAYS MIN. 3" COVER.
- (J) INSTALL 12" TACTILE WARNING BAND

NOT TO SCALE

APPROVED BY	DATE		CONCRETE DRIVEWAY WITHOUT PLANTER	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			7
CITY ENGINEER				

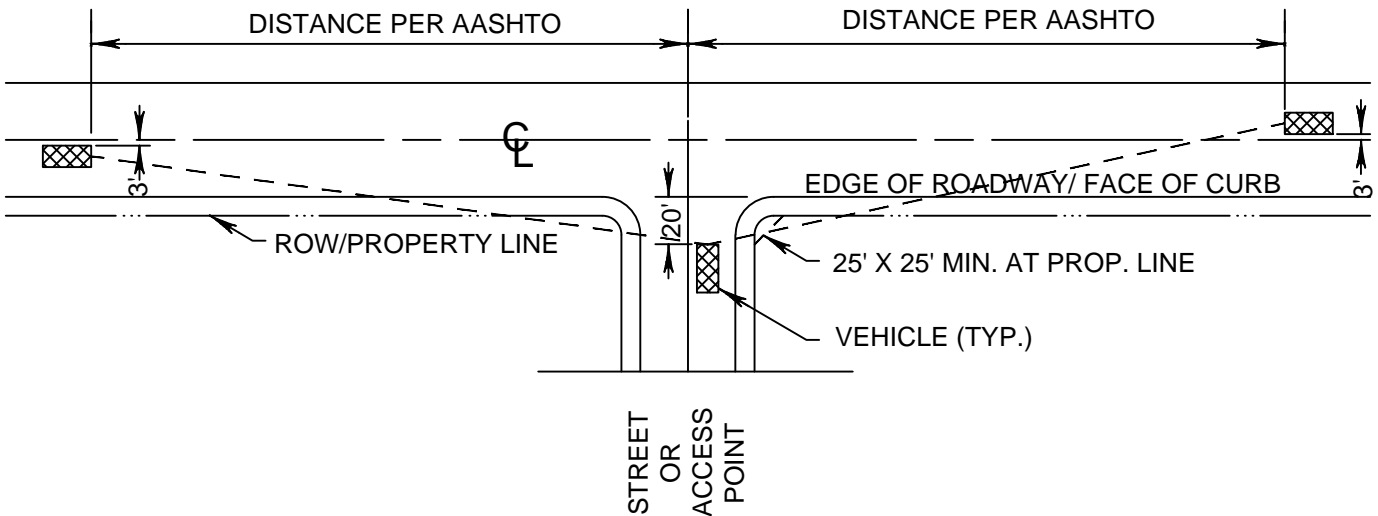
NOTES:

1. FOLIAGE AT MATURITY AND BERM, IF ANY, SHALL NOT EXCEED 3 FT IN HEIGHT.
2. A VISUAL CLEARANCE FROM THE STREET TO 15 FT IN HEIGHT SHALL BE MAINTAINED WITH ALL TREE FOLIAGE WITHIN THE SITE TRIANGLE.
3. A VISUAL CLEARANCE FROM THE SIDEWALK TO 7 FT IN HEIGHT SHALL BE MAINTAINED WITH ALL TREE FOLIAGE WITHIN THE SITE TRIANGLE.



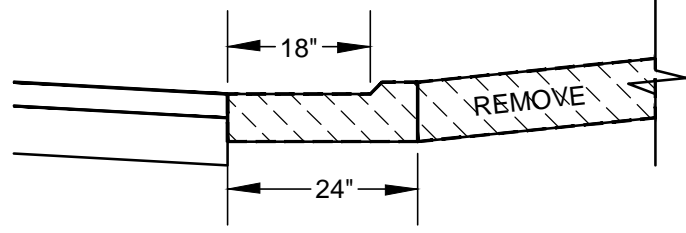
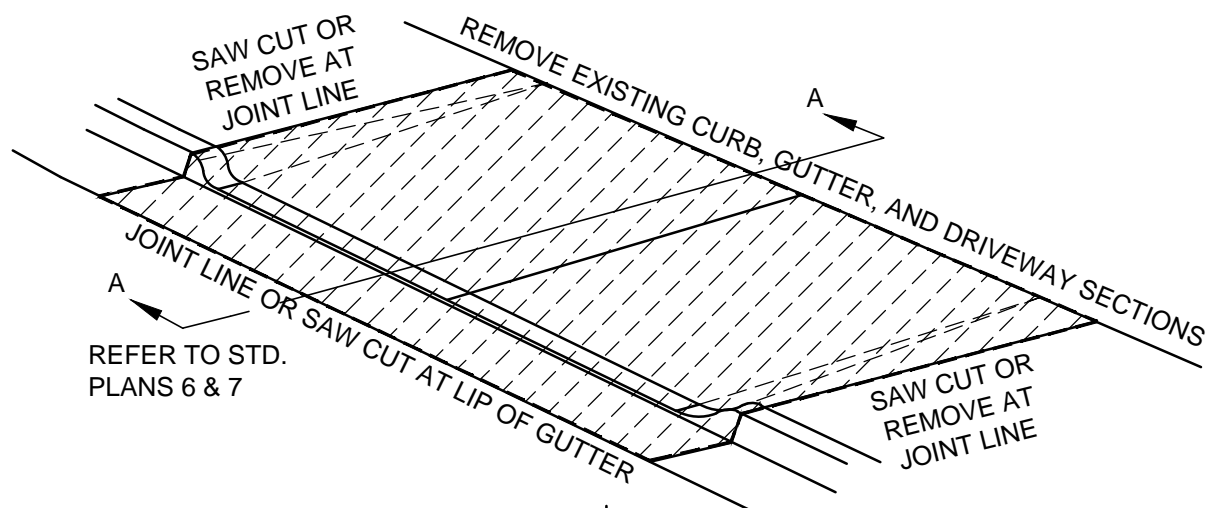
PUBLIC STREET POSTED SPEED LIMIT (MPH)	MINIMUM DISTANCE (FT)
25	200
30	250
35	325
40	400

PUBLIC STREET

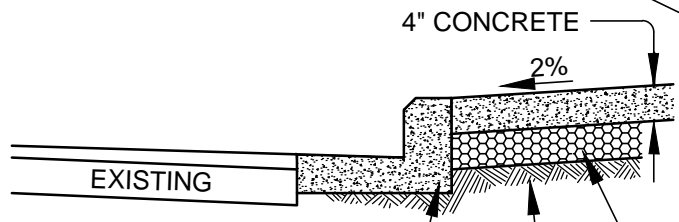
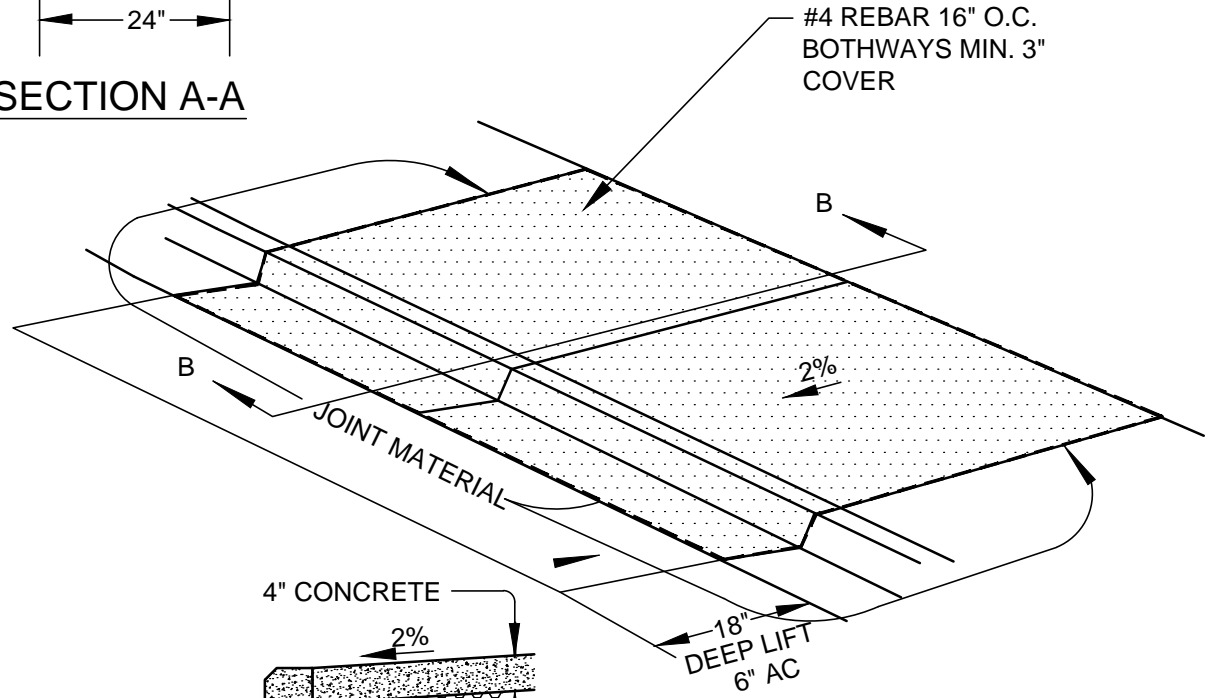


NOT TO SCALE

APPROVED BY	DATE		DRIVEWAY AND INTERSECTION SITE TRIANGLES	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			8
CITY ENGINEER				



SECTION A-A



CONCRETE CURB & GUTTER, SEE STD. DETAIL 1

4" CLASS II AGGREGATE BASE 95% MAX. COMPACTION ASTM D1557

REBAR: #4 @ 16" O.C. BOTH WAYS, MIN. 3" CONCRETE COVERAGE

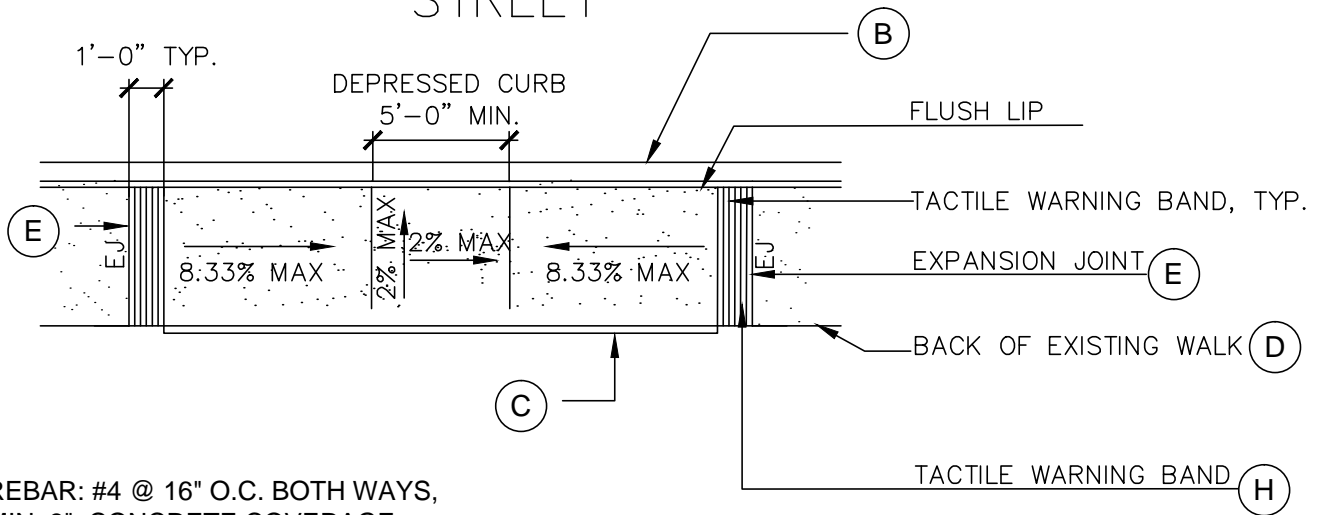
UNDISTURBED SUBGRADE OR APPROVED MATERIAL 95% MAX. COMPACTION ASTM D1557

SECTION B-B

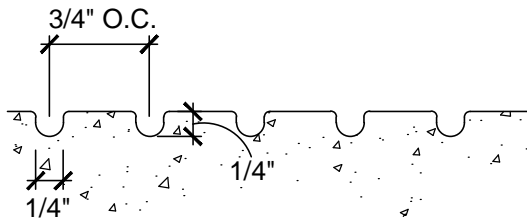
NOT TO SCALE

APPROVED BY	DATE		DRIVEWAY TO SIDEWALK RECONSTRUCTION	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			9
CITY ENGINEER				

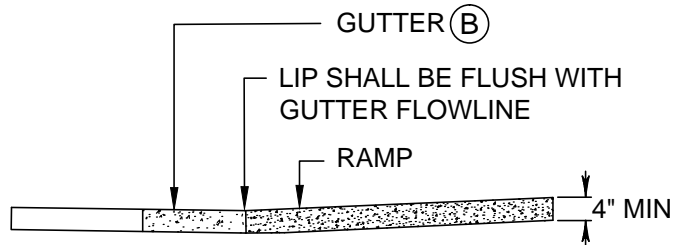
STREET



REBAR: #4 @ 16" O.C. BOTH WAYS,
MIN. 3" CONCRETE COVERAGE




TACTILE WARNING BAND (SECTION)
N.T.S.

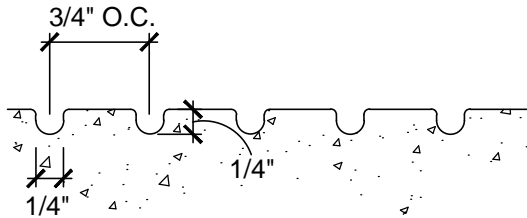
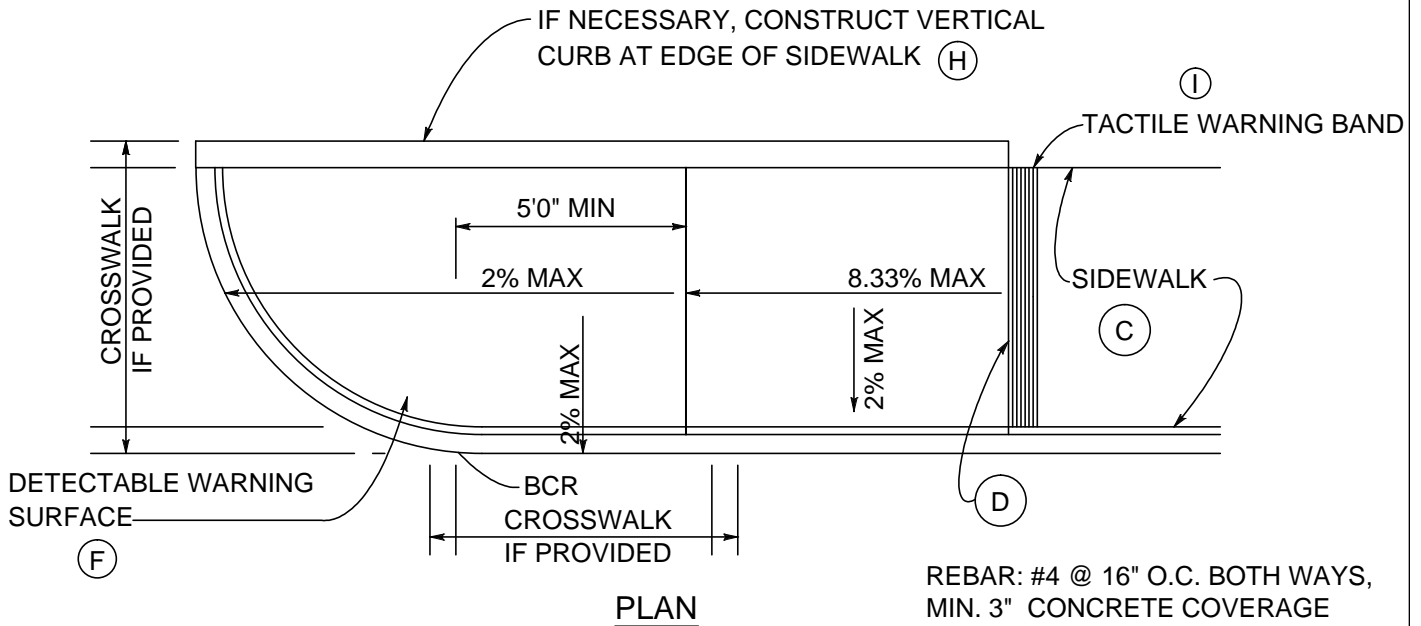


BEVELED LIP (SECTION)
N.T.S.

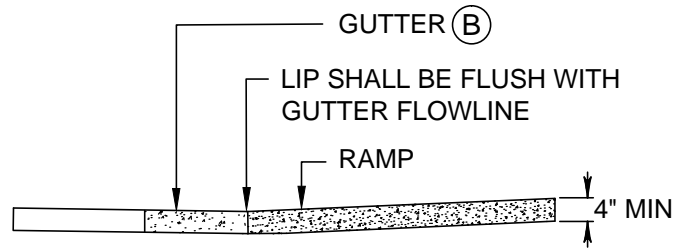
- (A) ALL CURB RAMPS SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT.
- (B) CONCRETE CURB AND GUTTER, SEE STD. DETAIL 1.
- (C) CONCRETE VERTICAL CURB, SEE STD. DETAIL 2, IF NECESSARY.
- (D) CONCRETE SIDEWALK, SEE STD. DETAIL 5.
- (E) 3/8" EXPANSION JOINTS.
- (F) CURB RAMPS WILL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED BY EXPANSION JOINT MATERIAL ON ALL SIDES, BUT NOT AT END OF RAMP ADJACENT TO ROADWAY.
- (G) EXPOSED SURFACES SHALL BE A MEDIUM BROOM FINISH. CURB RAMPS EXHIBITING A RUNNING SURFACE SLOPE GREATER THAN 5% ARE REQUIRED TO HAVE A TRUNCATED DOME DETECTABLE WARNING SURFACE OVER THE FULL WIDTH, EXCLUDING FLARED SIDES, AND A MINIMUM DEPTH OF 36".
- (H) INSTALL 12" TACTILE WARNING BAND AROUND THE RAMP PERIMETER.
- (I) MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE TOP OR BOTTOM OF THE CURB RAMP.
- (J) SAWCUT AND REMOVE 18" (MIN.) STREET SECTION FOR RAMP INSTALLATION

NOT TO SCALE

APPROVED BY	DATE		STD. PLAN NO.	
<i>Kevin Refai</i>	APRIL 2014		CURB RAMP "CASE C"	11
CITY ENGINEER				




TACTILE WARNING BAND (SECTION)
N.T.S.

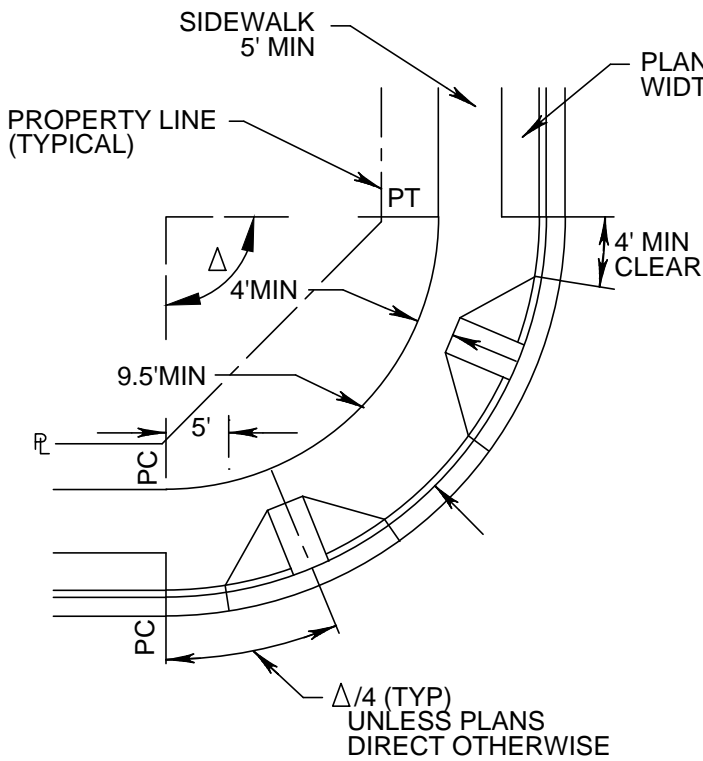


BEVELED LIP (SECTION)
N.T.S.

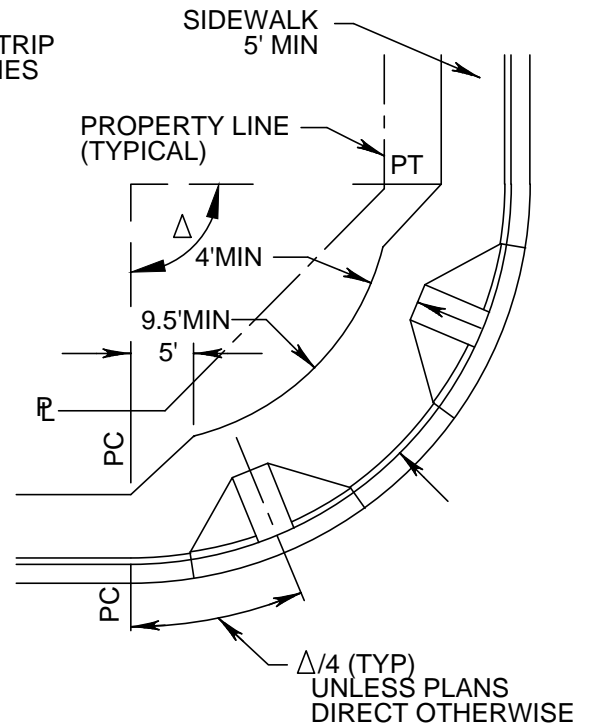
- (A) ALL CURB RAMPS SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT.
- (B) CONCRETE CURB AND GUTTER, SEE STD. DETAIL 1.
- (C) CONCRETE SIDEWALK, SEE STD. DETAIL 5. 4'0" MIN LANDING WITH A 2% MAX SLOPE.
- (D) 3/8" EXPANSION JOINTS.
- (E) CURB RAMPS WILL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED BY EXPANSION JOINT MATERIAL ON ALL SIDES, BUT NOT AT END OF RAMP ADJACENT TO ROADWAY.
- (F) EXPOSED SURFACES SHALL BE A MEDIUM BROOM FINISH. CURB RAMPS EXHIBITING A RUNNING SURFACE SLOPE GREATER THAN 5% ARE REQUIRED TO HAVE A TRUNCATED DOME DETECTABLE WARNING SURFACE OVER THE FULL WIDTH, EXCLUDING FLARED SIDES, AND A MINIMUM DEPTH OF 36".
- (G) SAWCUT AND REMOVE 18" (MIN.) STREET SECTION FOR RAMP INSTALLATION
- (H) CONCRETE VERTICAL CURB, SEE STD. DETAIL 2, IF NECESSARY.
- (I) INSTALL 12" TACTILE WARNING BAND AROUND THE RAMP PERIMETER.
- (J) MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE TOP OR BOTTOM OF THE CURB RAMP.

NOT TO SCALE

APPROVED BY	DATE		CURB RAMP "CASE CM"	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			12
CITY ENGINEER				



ALTERNATE "A"




ALTERNATE "B"

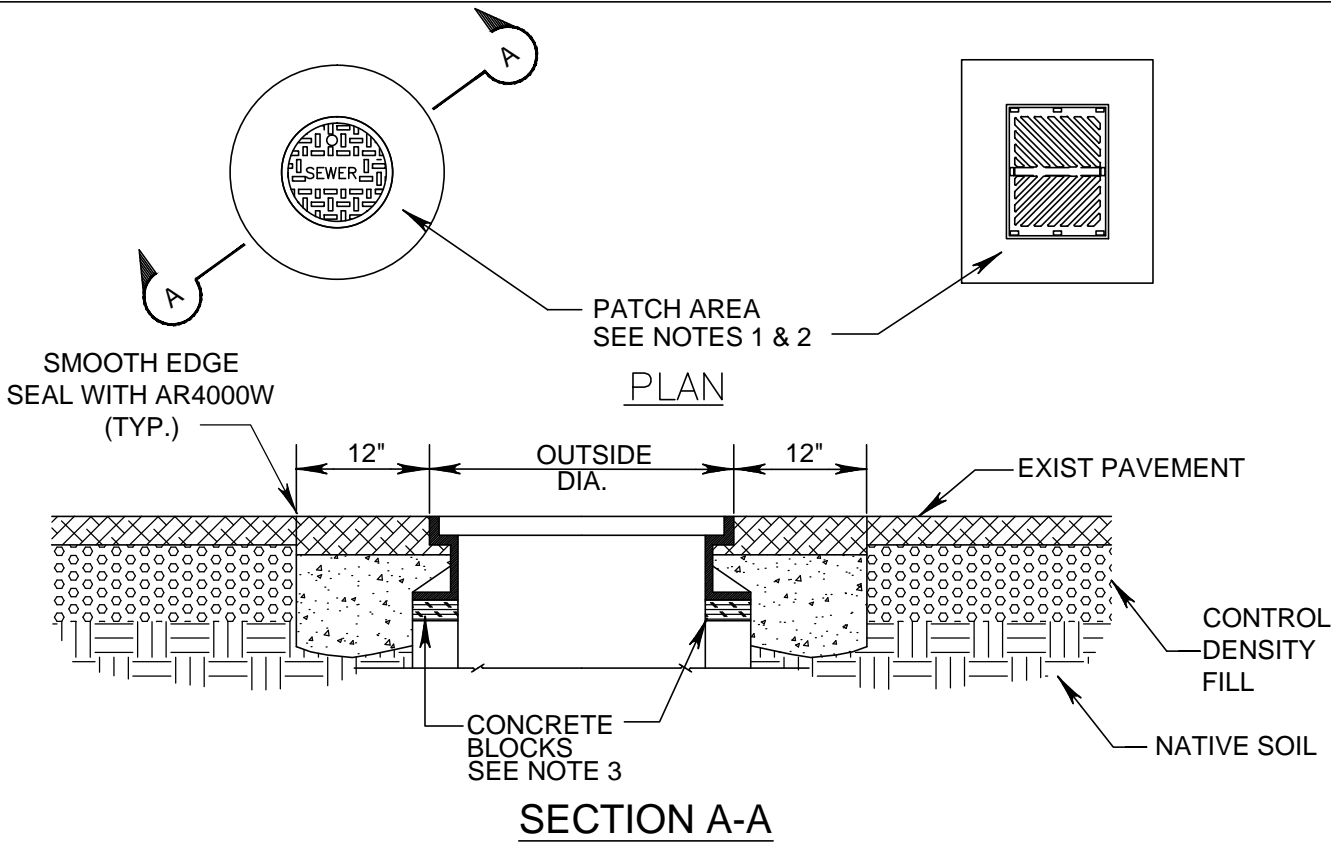
NOTES:

- 1 ALL CURB RAMPS SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT.
- 2 SEE STANDARD PLAN 10-12 FOR CURB RAMP TYPE

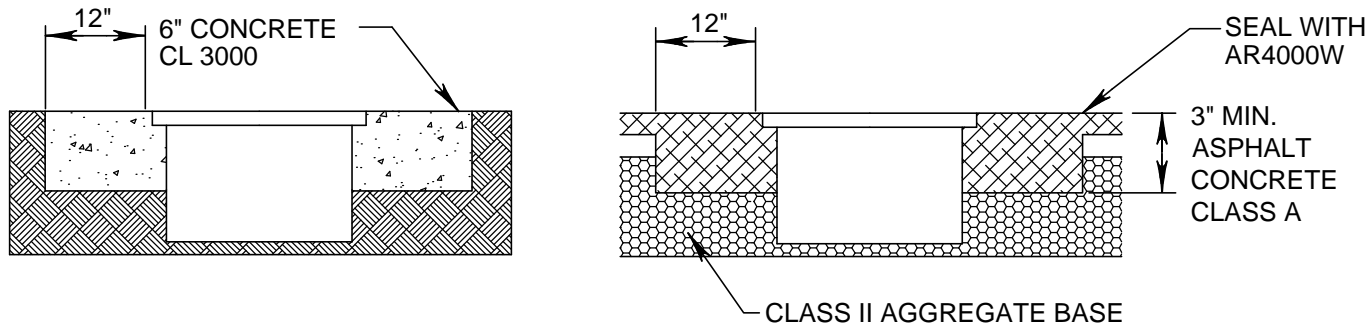
REBAR: #4 @ 16" O.C. BOTH WAYS,
MIN. 3" CONCRETE COVERAGE

NOT TO SCALE

APPROVED BY	DATE		CURB RAMP TYPICAL LOCATIONS	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			13
CITY ENGINEER				



MANHOLE & CATCHBASIN ADJUSTMENT



OUTSIDE PAVED AREA

INSIDE PAVED AREA

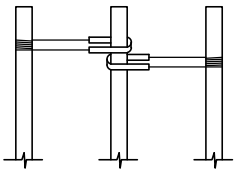
VALVE BOX ADJUSTMENT

NOT TO SCALE

NOTES:

1. REMOVE PAVEMENT AND BASE MATERIALS FOR A DISTANCE WHICH IS EQUAL TO THE DIAMETER OF THE FRAME PLUS TWO FEET. ADJUST CASTING FRAME TO NEW PAVEMENT SURFACE USING CONCRETE BLOCKS.
2. ASPHALT CONCRETE CLASS "B" (3" MIN.) REPLACEMENT PATCH TO BE 1" THICKER THAN PREVIOUSLY EXISTED. THE REST OF THE BACKFILL TO BE CONTROLLED DENSITY FILL.
3. 2"x4"x8" SOLID BRICK USED FOR FINAL ADJUSTMENT TO GRADE. 6" HIGH MAX.

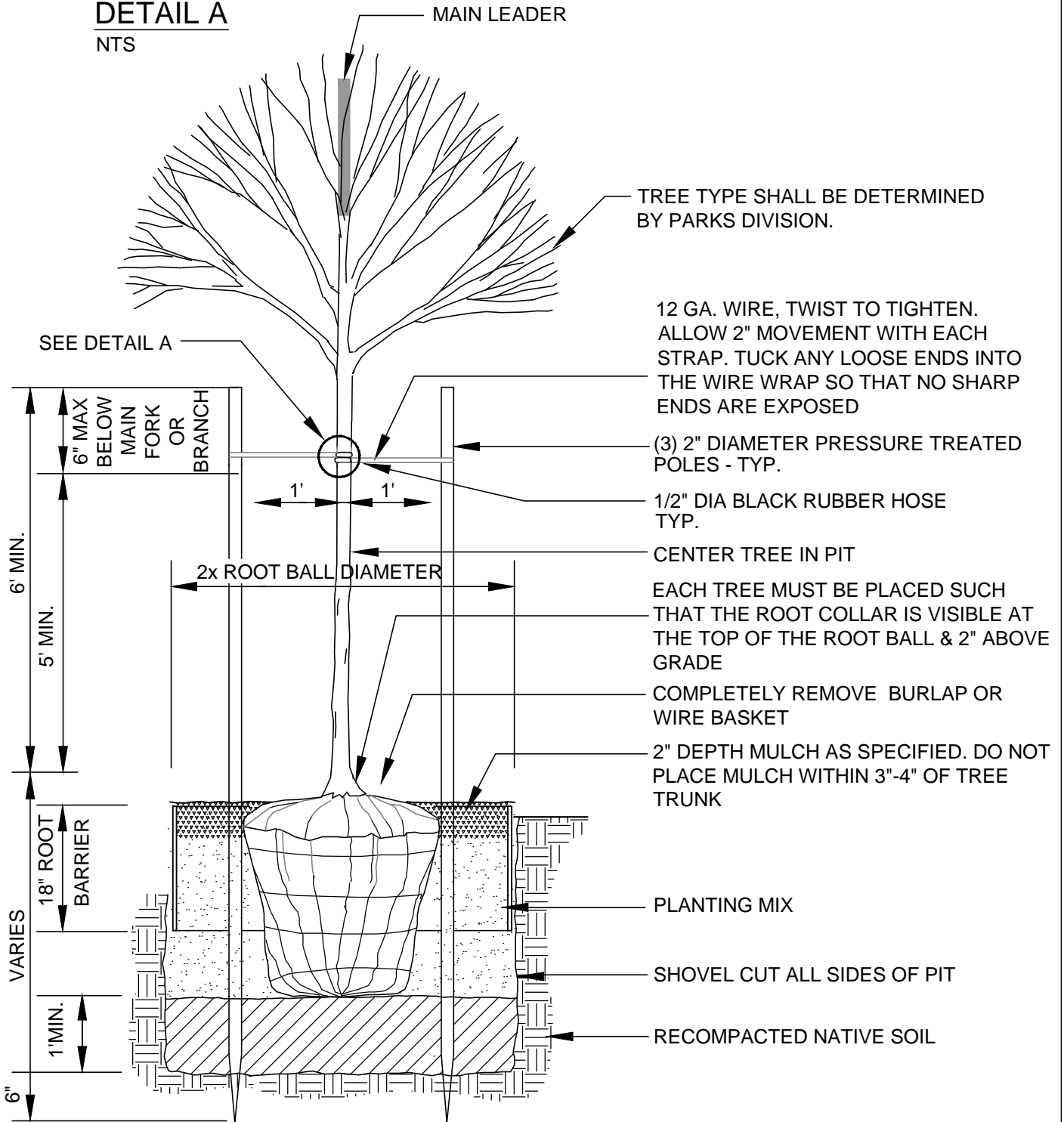
APPROVED BY	DATE		MANHOLE/CATCH BASIN & VALVE BOX ADJUSTMENT	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			14
CITY ENGINEER				



DETAIL A
NTS

NOTES

AVOID DAMAGE TO ROOTS.
AVOID ROOTBALL WHEN PLACING STAKES.



NOT TO SCALE

APPROVED BY	DATE		TREE PLANTING DETAIL	STD. PLAN NO.
<i>Kevin Refai</i>	APRIL 2014			15
CITY ENGINEER				

TREE SPECIFICATIONS

All 15 gal. trees must meet the following minimum specifications:

1. HEIGHT: 7 - 8 feet high planted in the ground.
2. CALIPER: 1-1/2 inches, measured 6 inches from the base.
3. BRANCHING NEED: Minimum spread of 2 - 3 feet.
4. CENTRAL LEADER: Single, relatively straight


Any exception to the above must be approved by the City.

All planting stock must must have the approval of the City.

City reserves the right to reject trees that do not meet quality nursery stock.

PLANTING SEQUENCE

1. Dig the hole twice as large in diameter and 1-1/2 times as deep as the container in which the plant was delivered. Provide a 6 inch minimum clearance all around the rootball.
2. The existing soil area is to be removed to a depth of 2 feet and replaced with U.C. Ag. mix or approved equivalent. U.C. Ag. mix shall be combined with existing soil, 1/3 mix, 2/3 native soil.
3. Fill hole with the backfill mix to a level 1 inch below the curb.
4. Place 3 Agriform Planting Tablets per tree at equidistant spacing. Tablets shall be 21 grams each with a guaranteed test analysis of 20-10-5.
5. Remove the rootball carefully from the container by supporting it from below. Sever any circling roots (3/16 inch or greater) with sharp shears or knife. If the rootball is dense or compacted, carefully loosen the roots at the side and bottom of the rootball. Do not pull the rootball apart. The severing of large roots will encourage new roots initiating at the cuts.
6. Fill around the rootball with backfill and pack the soil with the shovel handle as you fill. Be careful not to disturb the rootball itself.
7. Use the remaining native soil to create a basin appropriate to the site.

APPROVED BY	DATE		TREE PLANTING SPECIFICATIONS	STD. PLAN NO.
<i>Kaun Refai</i>	APRIL 2014			16
CITY ENGINEER				