



Think Inside the Triangle™

City of Tracy

Engineering Design & Construction Standards



STANDARD PLANS

(Streets and Utilities)

Development and Engineering Services Department
Resolution No. 2008-255 ♦ December 2008

STREETS AND UTILITIES STANDARD PLANS INDEX

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ALPHABETICAL STREETS AND UTILITIES STANDARD PLANS INDEX

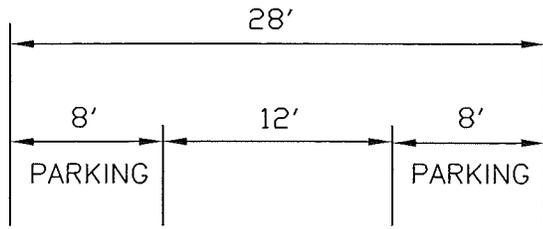
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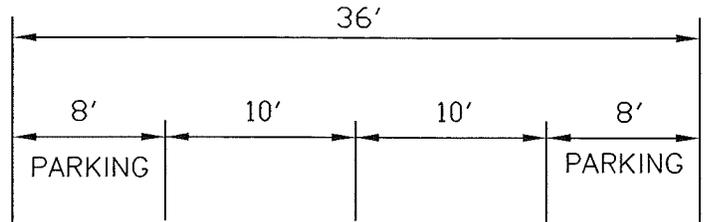
ONE WAY LOOP

(1 TO 15 UNITS)



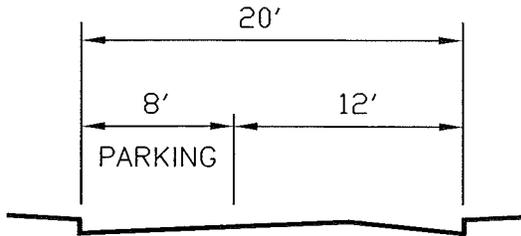
CUL-DE-SAC, LANE, PLACE, MINOR STREETS

(1 TO 80 UNITS)



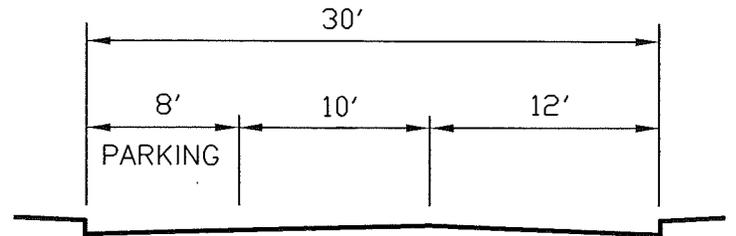
PARKING BOTH SIDES

N.T.S.



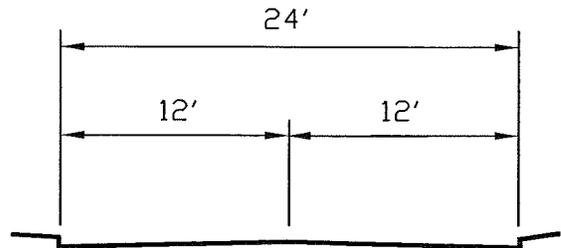
PARKING BOTH SIDES

N.T.S.



PARKING ONE SIDE

N.T.S.



PARKING ONE SIDE

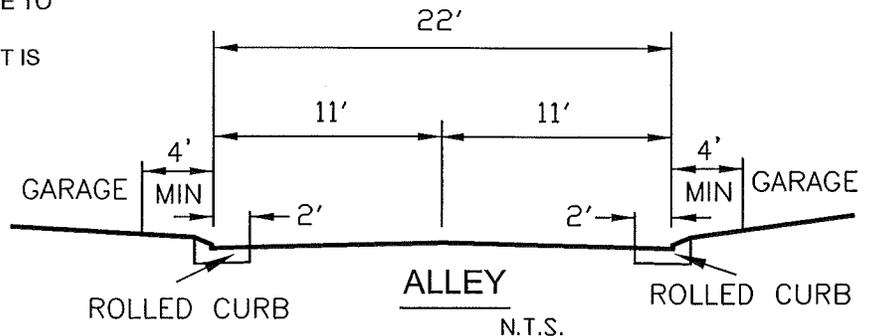
N.T.S.

NOTES:

1. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH CITY STANDARDS.
2. DEPENDING UPON THE LENGTH OF STREET, PERIMETER ACCESS AND TYPE OF STRUCTURE TO BE PROTECTED, THE FIRE DEPARTMENT MAY REQUIRE A GREATER ROAD WIDTH THAN WHAT IS SPECIFIED HEREIN.

NO PARKING

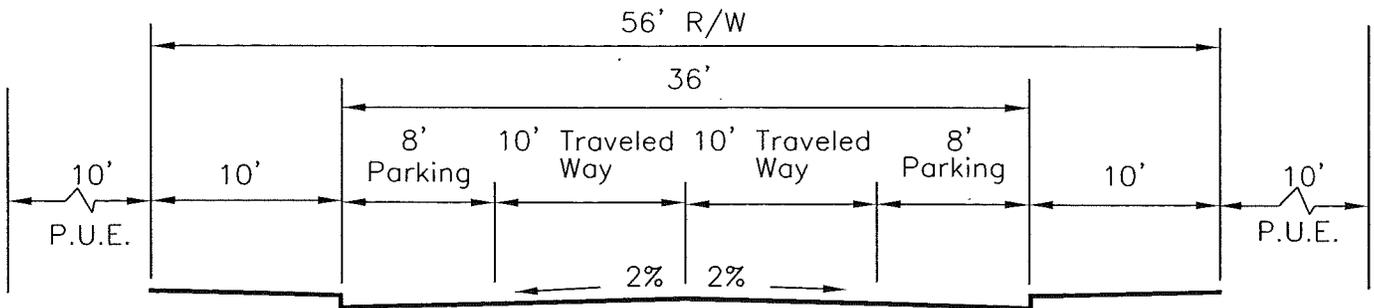
N.T.S.



CITY OF TRACY



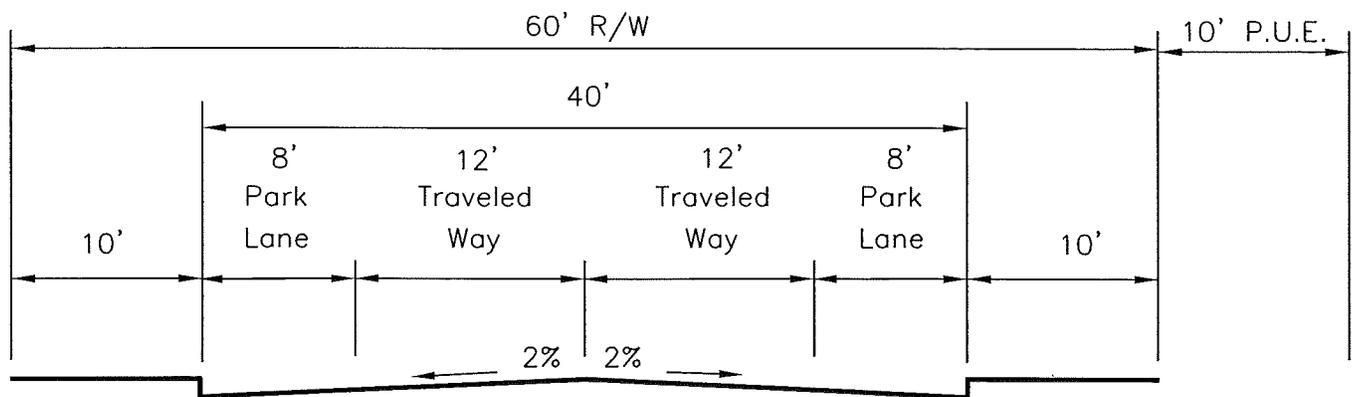
REVIEWED BY: <i>Alhama</i>		STANDARD PLAN No. 101	
CITY ENGINEER RCE 37186			
Res No. 2008-255	DATE:	PRIVATE STREET WIDTHS	
Rev:	Rev:		
Rev:	Rev:		



RESIDENTIAL STREET

N.T.S.

For streets which serve less than fifty fronting houses or carrying less than an average of 500 vehicles per day.



MINOR RESIDENTIAL COLLECTOR

N.T.S.

For streets which serve more than fifty but less than 200 fronting houses or carrying an average of between 500 and 2,000 cars per day.

NOTES:

1. RIGHT-OF-WAY WIDTH MAY BE REDUCED UNDER SPECIAL CONDITIONS UPON APPROVAL OF CITY ENGINEER.
2. CROSS SLOPES MAY BE INCREASED TO A MAXIMUM OF 4% IF REQUIRED DUE TO SPECIAL CIRCUMSTANCES.

CITY OF TRACY



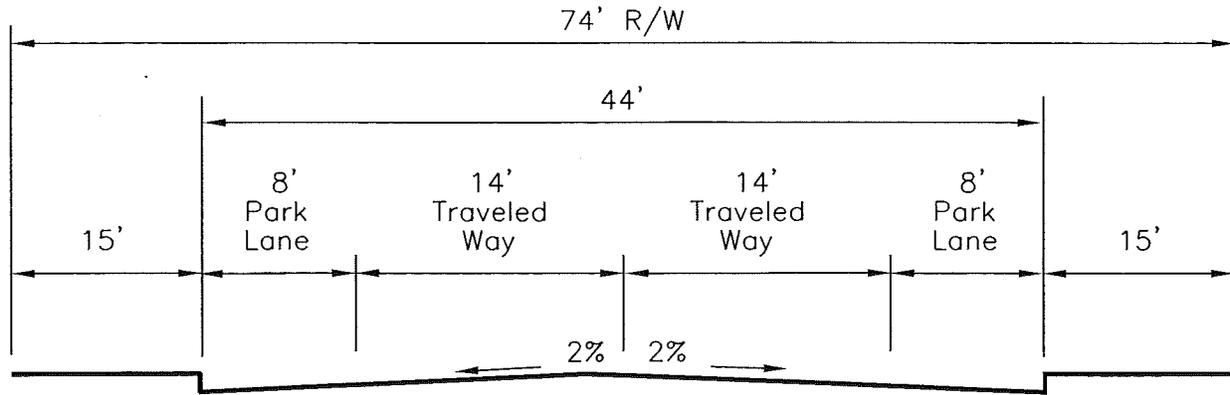
Think Inside the Triangle™

REVIEWED BY: <i>Alhama</i>	
CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:
Rev:	Rev:
Rev:	Rev:

STANDARD
PLAN
No.

102

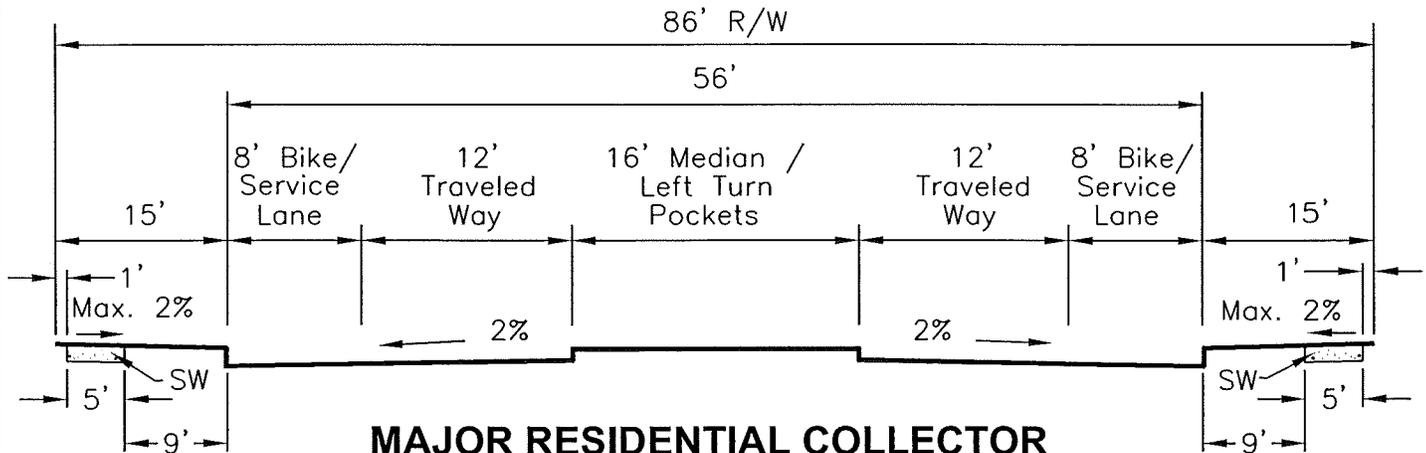
**RESIDENTIAL
STREETS**



SPECIFIC PLAN COLLECTOR

N.T.S.

For streets which serve more than fifty but less than 200 fronting houses or carrying an average of between 500 and 2,000 cars per day.



MAJOR RESIDENTIAL COLLECTOR

N.T.S.

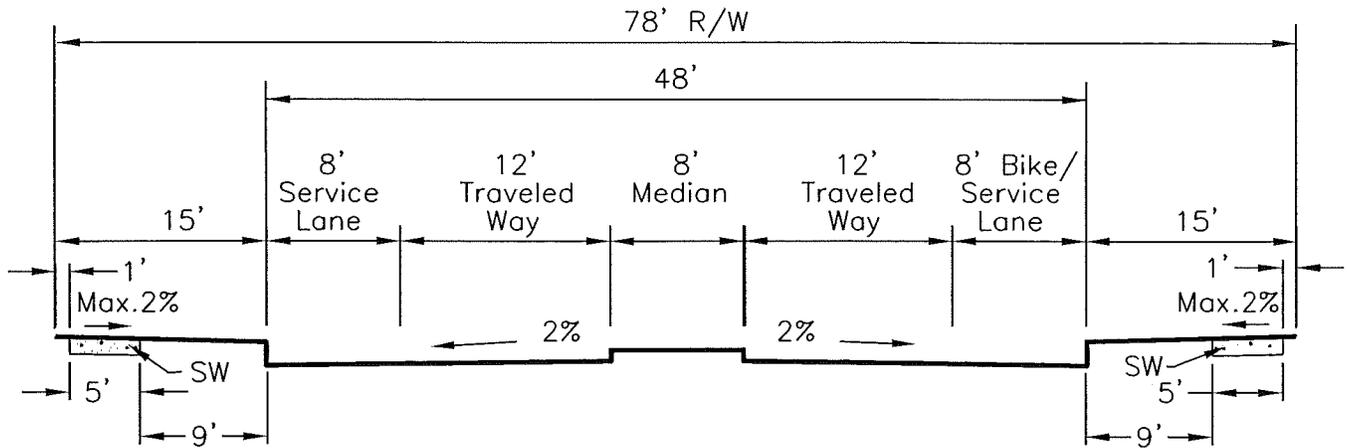
For streets with no fronting houses serving 200 to 500 houses or carrying an average of between 2,000 and 5,000 vehicles per day.

NOTES:

- 1. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% LONGITUDINAL SLOPE.

CITY OF TRACY

	REVIEWED BY: <i>[Signature]</i>	STANDARD PLAN No. 103
	CITY ENGINEER RCE 37186	COLLECTOR STREETS
	Res No. 2008-255 DATE:	
	Rev: Rev:	
Rev: Rev:		



NEIGHBORHOOD ENTRY

N.T.S.

NOTES:

- 1. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% LONGITUDINAL SLOPE.

CITY OF TRACY



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REVIEWED BY: *Alhanna*
 CITY ENGINEER RCE 37186

Res No. 2008-255 DATE:

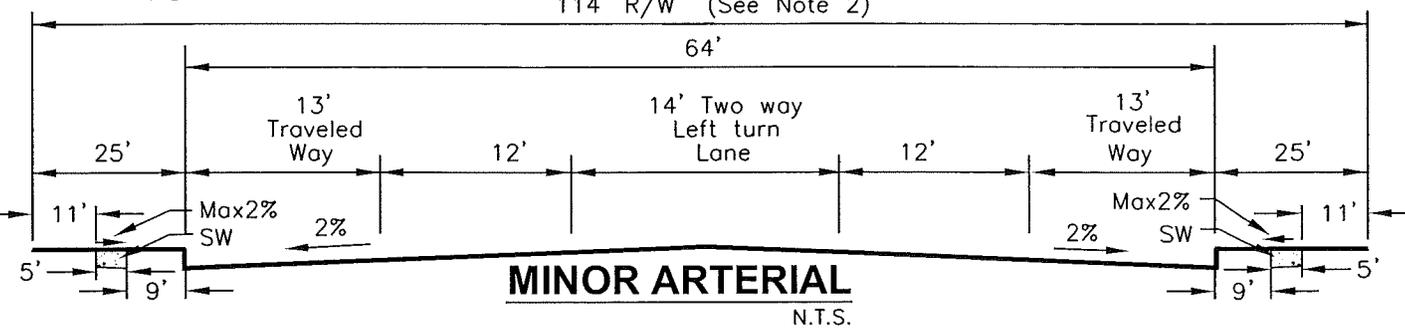
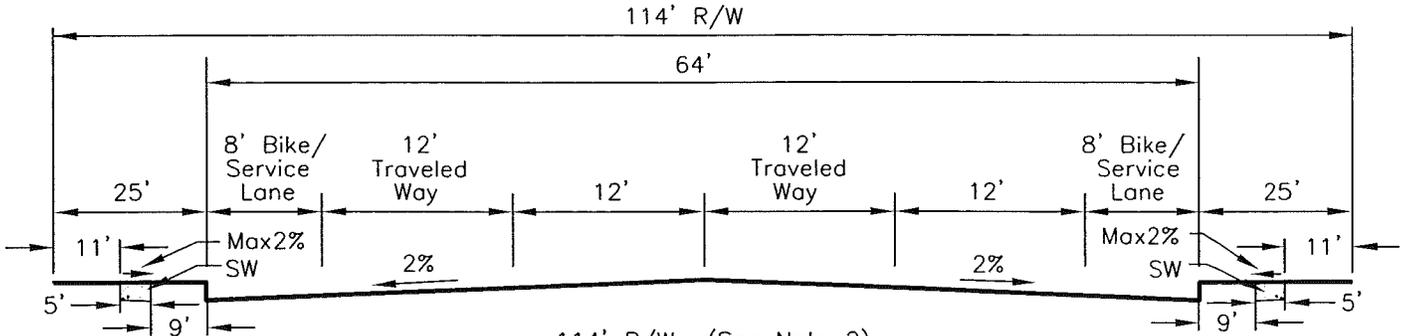
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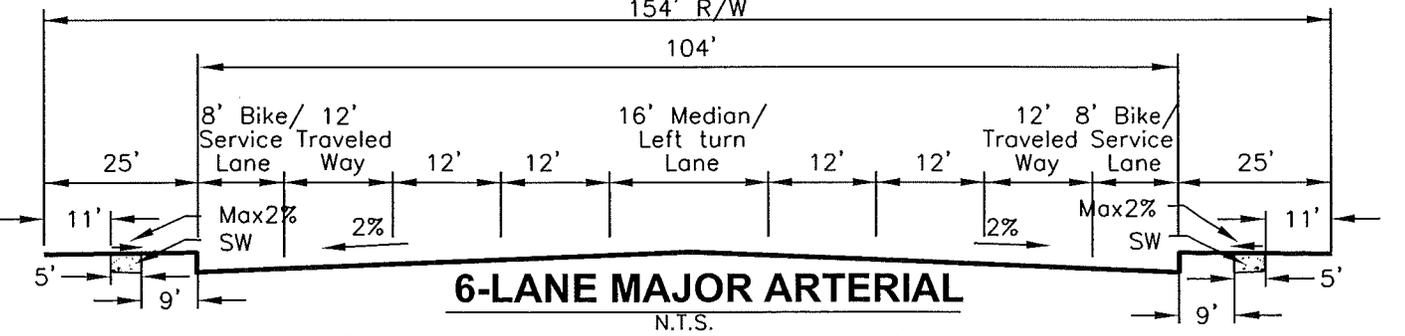
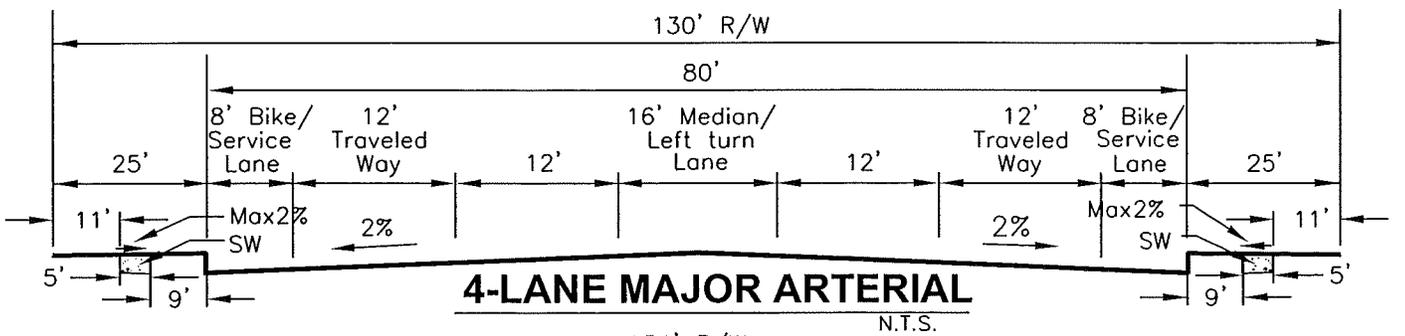
STANDARD
 PLAN
 No.

104

**NEIGHBORHOOD
 ENTRY**



Sound walls shall be used when passing through residential areas for streets which serve 500 to 1,000 homes or carry an average of between 5,000 and 12,000 vehicles per day.



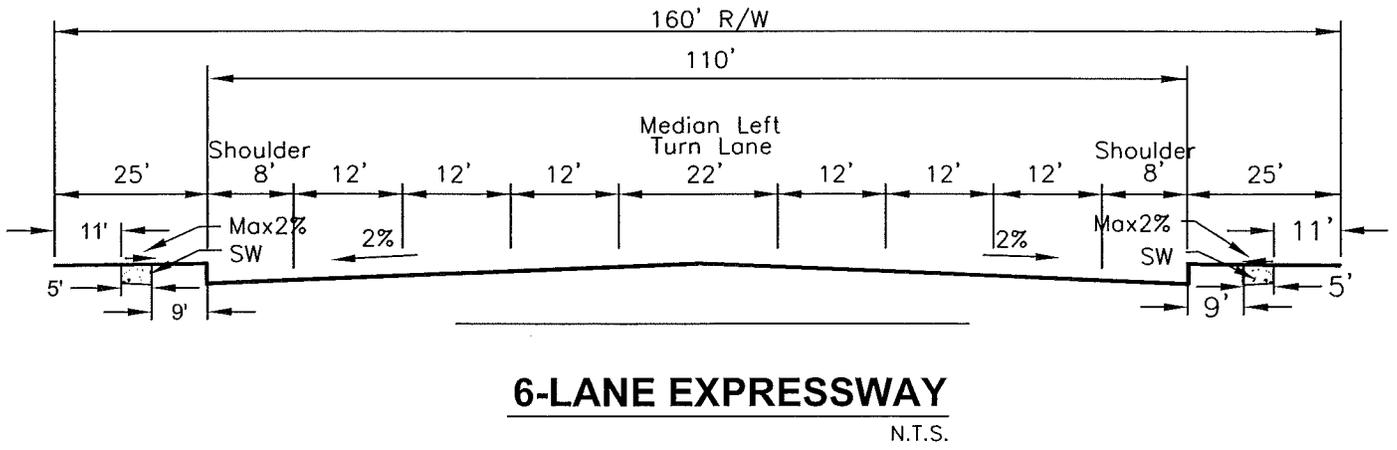
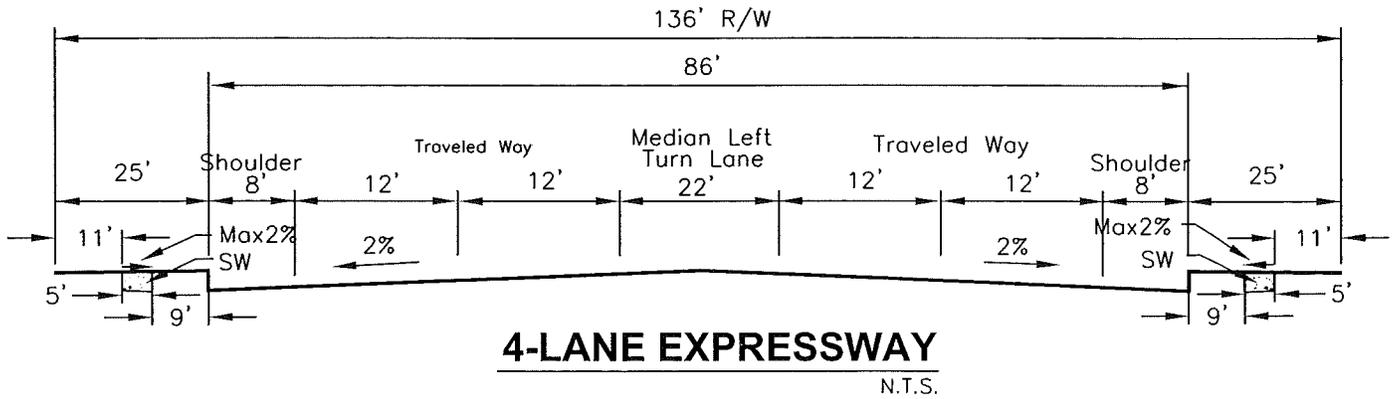
Sound walls shall be used when passing through residential areas for streets which carry in excess of 10,000 cars per day.

NOTES:

1. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% LONGITUDINAL SLOPE.
2. SPECIFIC PLAN MAY REQUIRE ADDITIONAL RIGHT OF WAY.

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No.	105	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	ARTERIAL STREETS	
	Rev:	Rev:		
Rev:	Rev:			

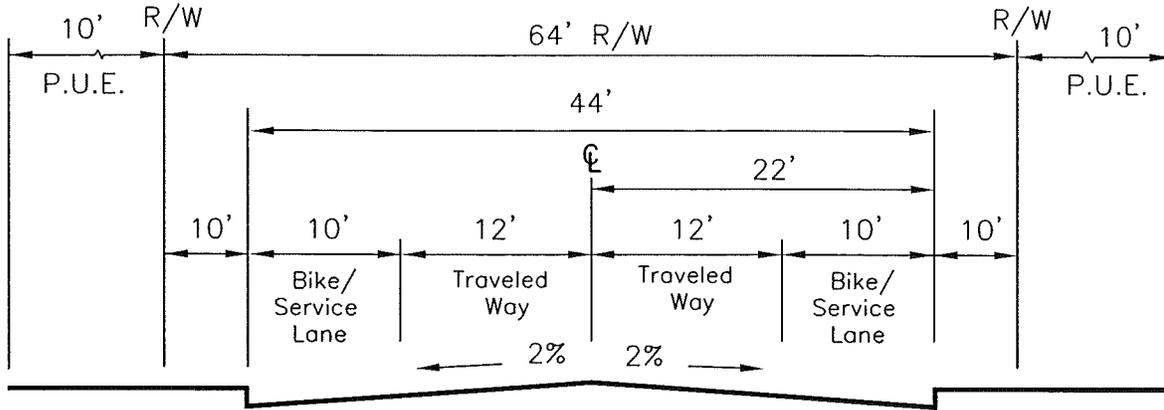


NOTES:

1. SOUND WALLS SHALL BE USED ADJACENT TO RESIDENTIAL AREAS WHEN THE EXPRESSWAY CARRIES MORE THAN 10,000 CARS PER DAY.
2. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% LONGITUDINAL SLOPE.
3. SPECIFIC PLAN MAY REQUIRE ADDITIONAL RIGHT OF WAY.

CITY OF TRACY

	REVIEWED BY: <i>Alhano</i>		STANDARD PLAN No.	105A
	CITY ENGINEER RCE 37186		EXPRESSWAY/PARKWAY	
	Res No. 2008-255	DATE:		
	Rev:	Rev:		
Rev:	Rev:			

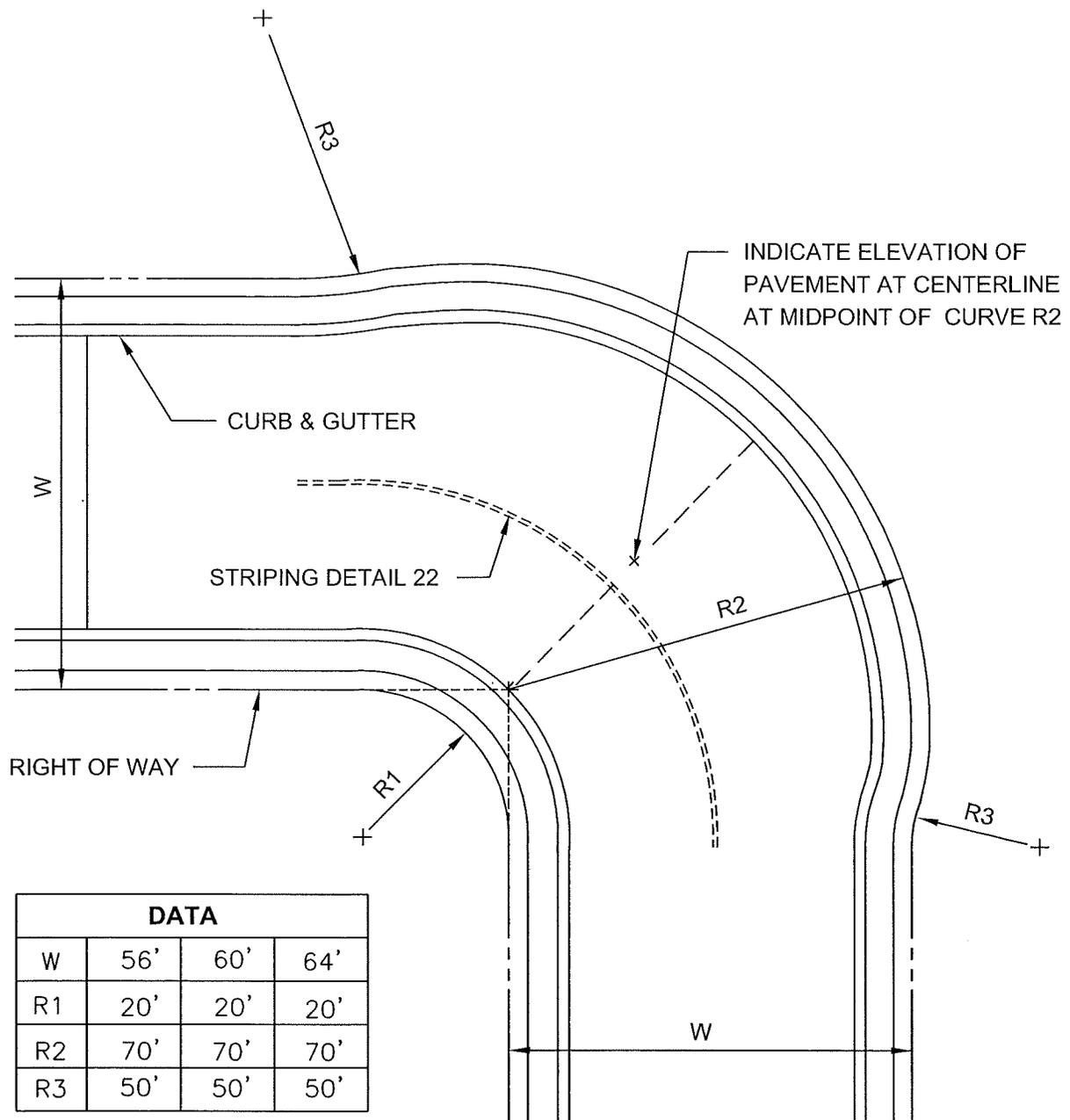


INDUSTRIAL STREETS

N.T.S.

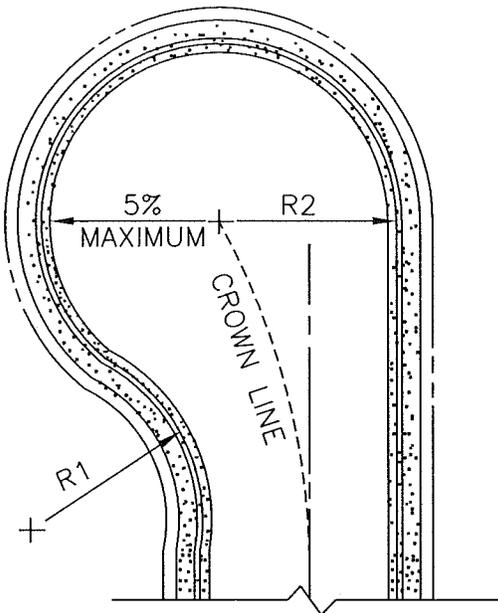
CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No.	106	
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	Res No. 2008-255	DATE:	INDUSTRIAL STREETS	
	Rev:	Rev:		
Rev:	Rev:			

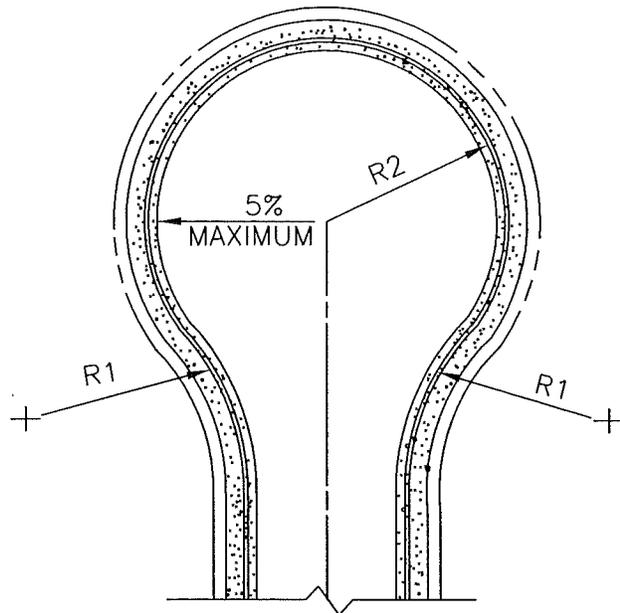


CITY OF TRACY

 <p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhanna</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 107
	Res No. 2008-255 DATE:	STREET KNUCKLE
	Rev:	
	Rev:	



N.T.S.



N.T.S.

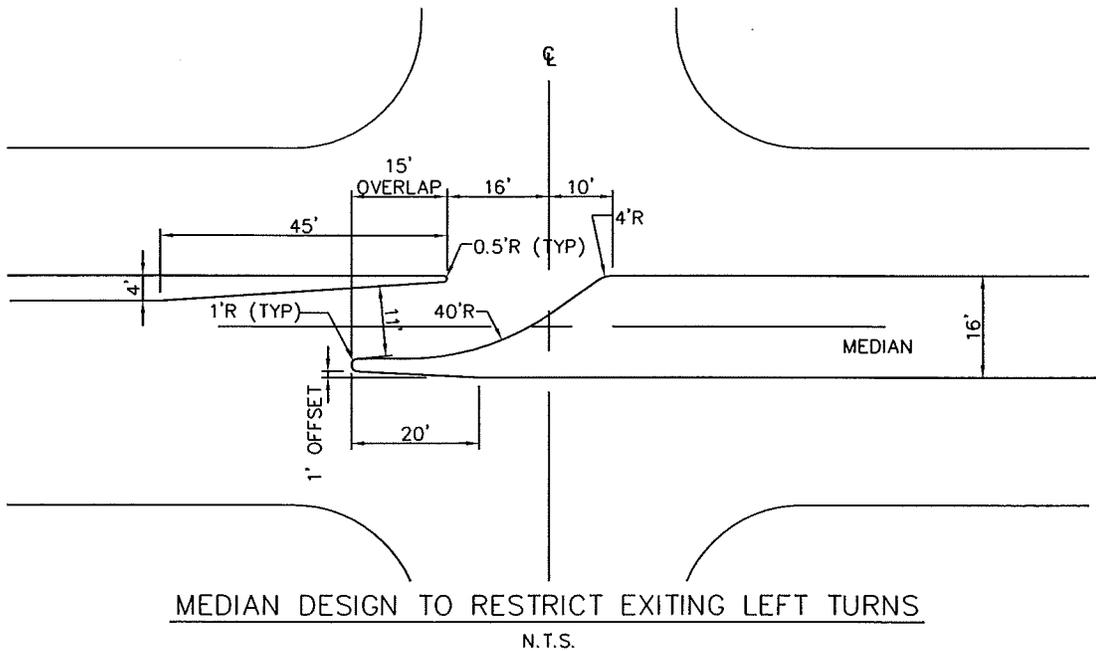
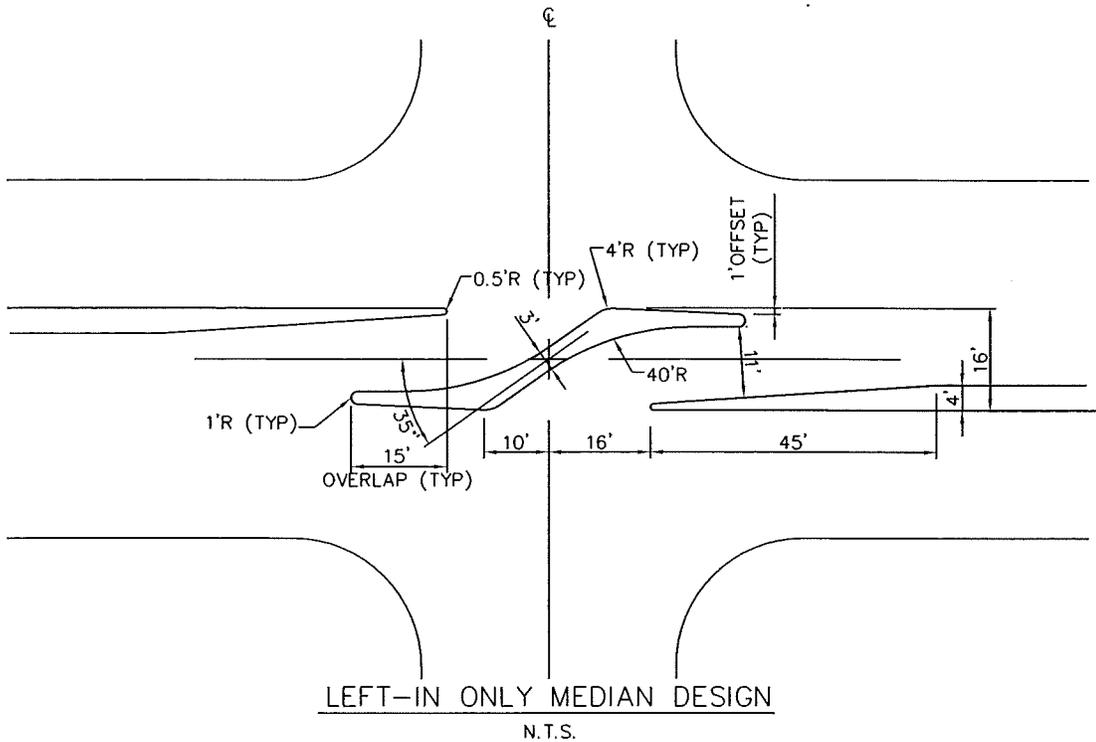
FACE OF CURB		
RADIUS	RESIDEN.	INDUST.
R1	50'	60'
R2	48'	50'

NOTES:

1. MAXIMUM LENGTH OF A CUL-DE-SAC STREET FROM CENTER OF INTERSECTING STREET TO CENTER OF TURN-AROUND SHALL BE 500 FEET.
2. BULB OFF-SET MAY BE ON EITHER SIDE.

CITY OF TRACY

 <p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhamo</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 108	
	Res No. 2008-255	DATE:	CUL-DE-SAC BULBS
	Rev:	Rev:	
	Rev:	Rev:	



CITY OF TRACY



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REVIEWED BY: *Alhanna*

CITY ENGINEER RCE 37186

Res No. 2008-255 DATE:

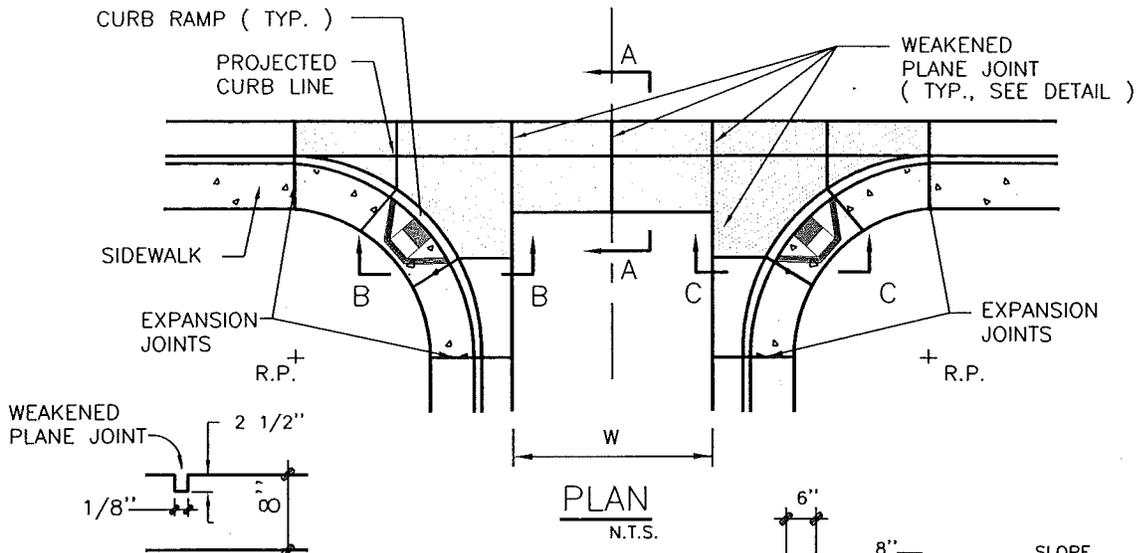
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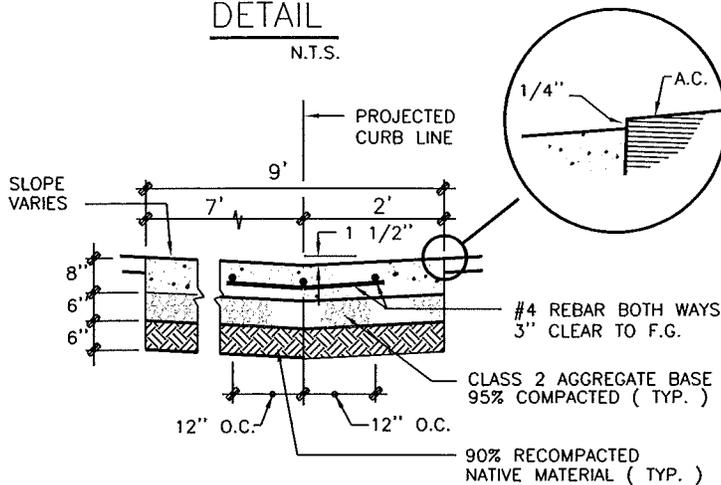
STANDARD
PLAN
No.

110A

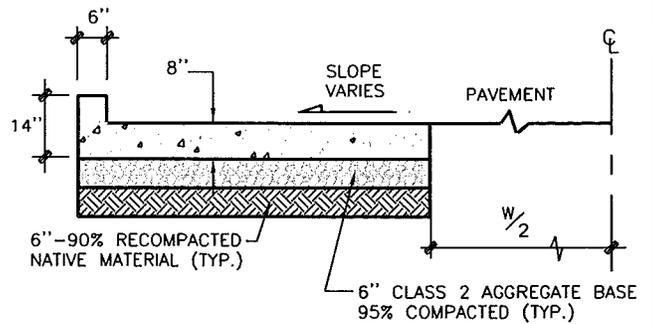
**LEFT-IN ONLY
MEDIAN**



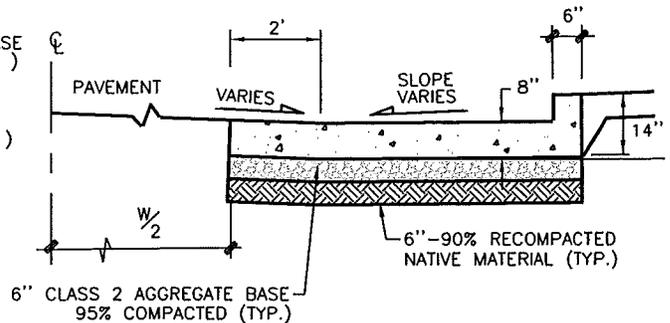
DETAIL
N.T.S.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

LEGEND

INDICATE #4 REBAR BOTHWAYS

NOTES:

1. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS: 3/4" MAXIMUM AGGREGATE SIZE, 4" MAXIMUM SLUMP AT TIME OF PLACEMENT.
2. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ. FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
3. FLOW LINE OF GUTTER SHALL BE MAINTAINED - NOT THE LIP OF GUTTER.
4. THIS STANDARD PLAN SHALL BE USED ONLY WITH PERMISSION OF CITY ENGINEER.
5. EXPANSION JOINTS SHALL BE SHAPED TO FIT CONCRETE AND PLACED AT TALL RETURNS, AROUND FIXED OBJECTS SUCH AS HYDRANTS, POLES AND DROP INLETS; AND MAXIMUM OF 200' INTERVALS. THE JOINTS SHALL BE FILLED WITH 1/4" PRE-MOLDED FILLER CONFORMING TO CALTRANS SPECIFICATIONS 51-1.12C (ASTM 1751)

CITY OF TRACY

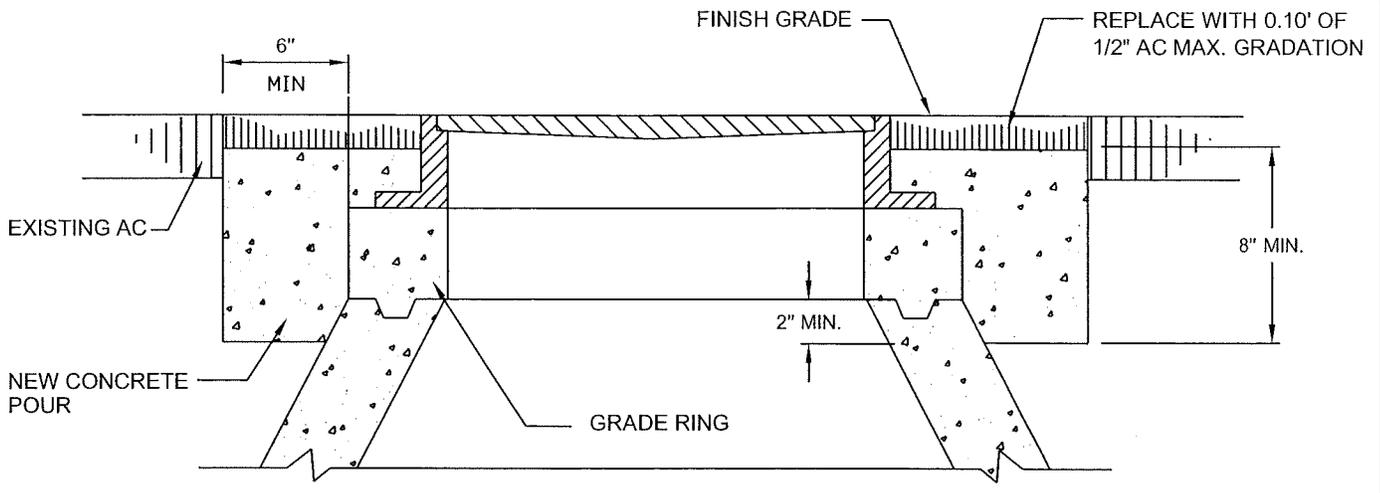


REVIEWED BY:	<i>Kelham</i>
CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:
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Rev:	Rev:

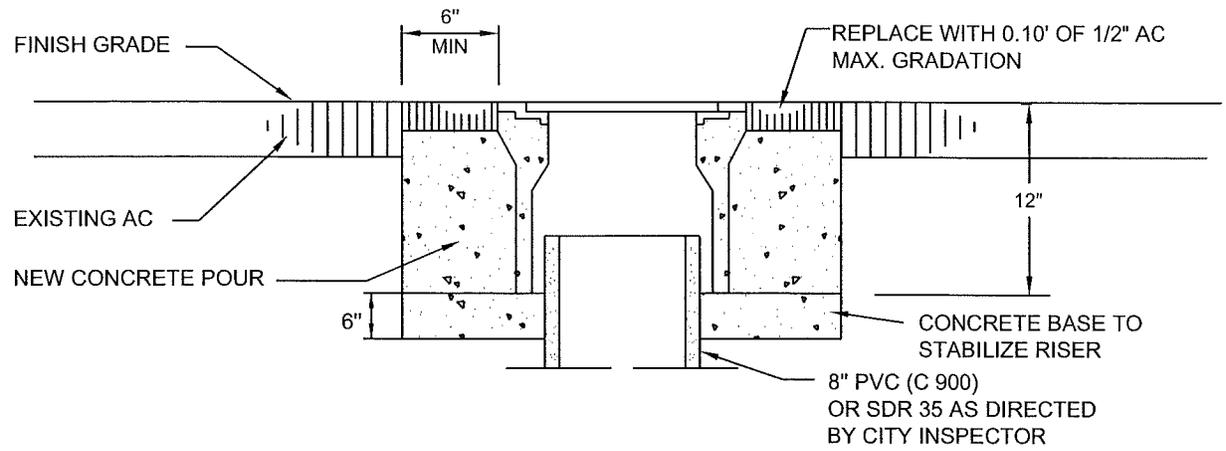
STANDARD
PLAN
No.

112

VALLEY GUTTER



MANHOLE
N.T.S.



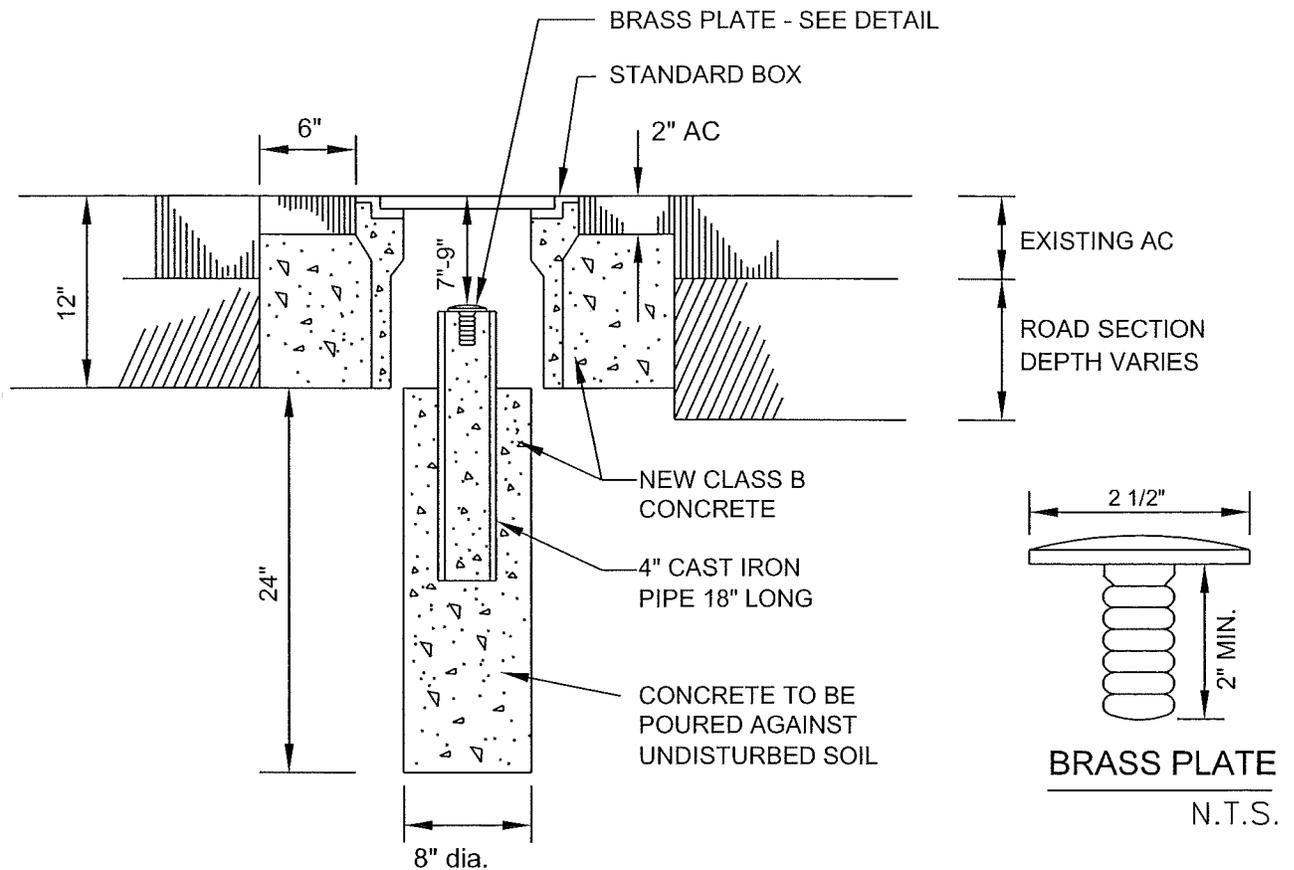
WATER VALVE
N.T.S.

NOTES:

1. THIS DETAIL SHALL BE USED WHERE FRAMES AND COVERS ARE BEING ADJUSTED TO GRADE.
2. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS; 4" MAX. SLUMP: 3/4" MAXIMUM AGGREGATE SIZE.
3. ALL CONCRETE SHALL BE POURED AGAINST NEAT EXCAVATION. DISTURBED SOIL OR A.B. SHALL BE COMPACTED TO 95%.
4. ASPHALT SHALL MATCH FINISH GRADE OF ADJACENT PAVEMENT TO WITHIN $\pm 1/8"$.

CITY OF TRACY

 TRACY <small>Think Inside the Triangle™</small>	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No. 114	FRAME & COVER ADJUSTMENTS
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
	Rev:		



NOTES:

1. CONCRETE SHALL BE FIVE SACK CLASS "B" 2500 PSI AT 28 DAYS; 4" MAXIMUM SLUMP; 3/4" MAXIMUM AGGREGATE SIZE.
2. THE BRASS PLATE SHALL HAVE THE EXACT SPOT INDICATED BY A CHISELED CROSS OR A PUNCHED HOLE AND BEAR THE LICENSE NUMBER OF THE ENGINEER OR SURVEYOR MAKING THE SURVEY AND THE DATE OF MARKING. THE BOTTOM OF THE BRASS PLATE SHALL BE FLUSH WITH THE TOP OF THE CAST IRON PIPE.
3. MONUMENT BOX SHALL BE CHRISTY G-5 OR APPROVED EQUAL WITH MARKING "MONUMENT" IN RAISED LETTERS ON COVER. BRASS PLATE SHALL BE LEITZ 8134-16 DOMED SURVEY MARKERS.
4. THE ENGINEER OR SURVEYOR SHALL NOTIFY THE CITY ENGINEER IN WRITING THAT FINAL MONUMENTS HAVE BEEN PLACED AS REQUIRED BY THE SUBDIVISION MAP ACT.
5. THE BENCH MARK SHALL BE TIED TO THE EXISTING CITY BENCH MARK SYSTEM AND THE ENGINEER OR SURVEYOR SHALL PROVIDE THE CITY WITH CLOSED BENCH LOOP CALCULATIONS.

CITY OF TRACY

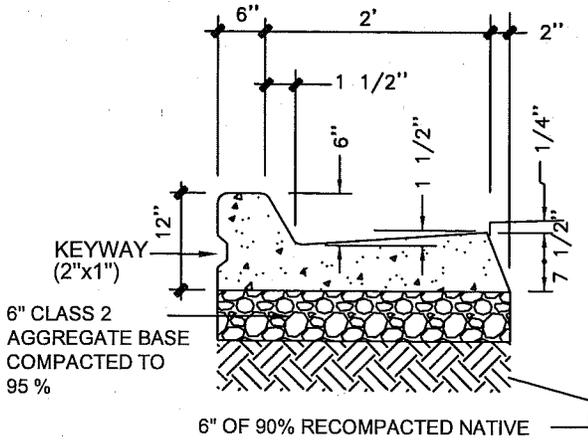


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CITY ENGINEER	RCE	37186
Res No.	2008-255	DATE:
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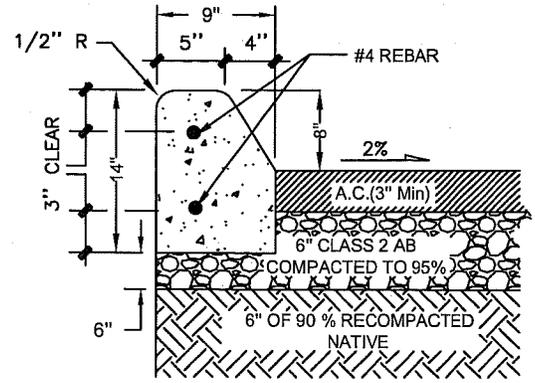
STANDARD
PLAN
No.

116

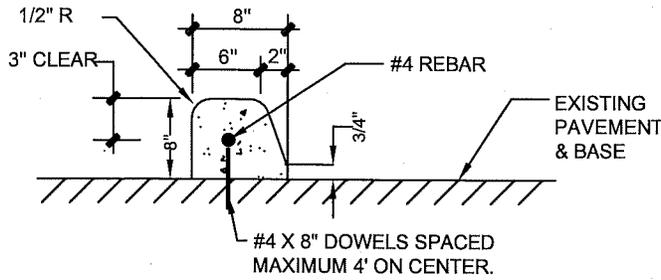
SURVEY MONUMENT



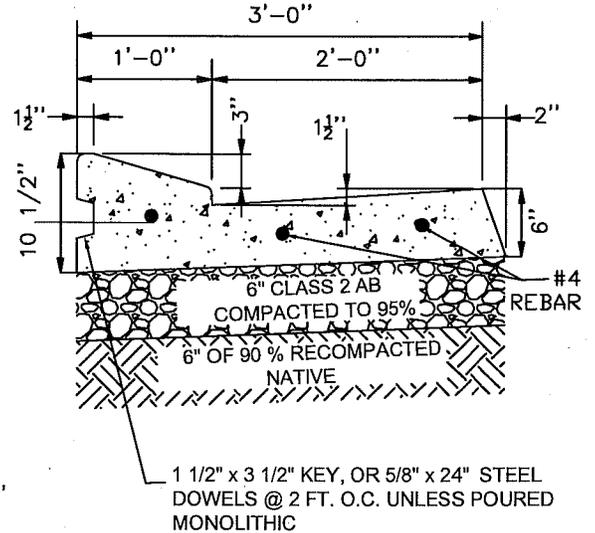
VERTICAL CURB AND GUTTER
N.T.S.



MEDIAN ISLAND CURB
N.T.S.



TRAFFIC ISLAND CURB
N.T.S.



ROLL TYPE CURB & GUTTER
N.T.S.

NOTES:

- WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 8 FOOT INTERVALS. JOINTS TO BE SCORED TO MINIMUM ONE INCH DEPTH.
- EXPANSION JOINTS TO BE INSTALLED AT MAX. 200 FOOT INTERVALS, AT EACH SIDE OF STRUCTURES AND AT ENDS OF CURB RETURNS. EXPANSION JOINTS SHALL NOT BE CONSTRUCTED WITHIN 20 FEET OF AN ISLAND NOSE. THE JOINTS SHALL BE FILLED WITH 1/4" PRE MOLDED FILLER CONFORMING TO CALTRANS SPECIFICATIONS 51-1.1 2C (ASTM 1751)
- CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ. FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
- IMPRESS 2" HIGH LETTERS "S" OR "W", 1/4" DEEP INTO THE FACE OF CURB TO IDENTIFY SERVICE LOCATIONS.

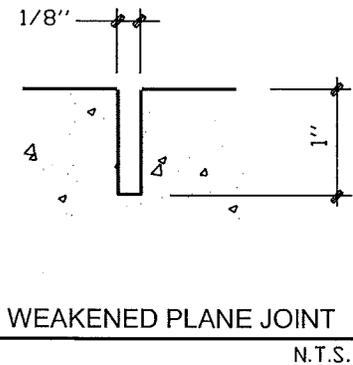
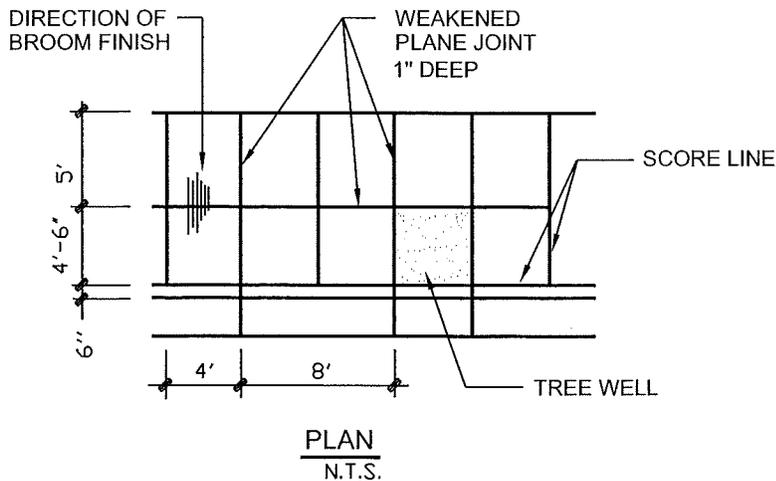
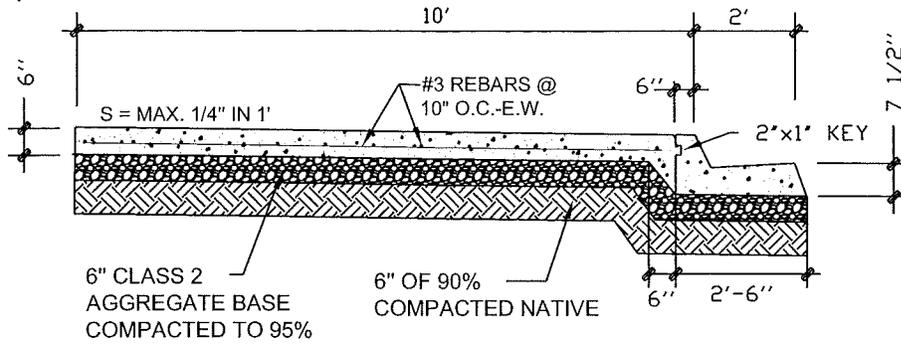
CITY OF TRACY



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CITY ENGINEER	RCE	37186
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD PLAN No. **120**

CURBS

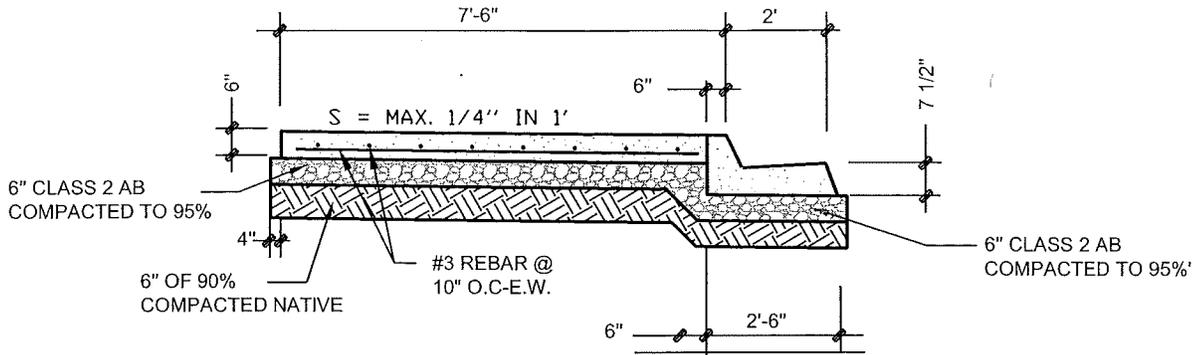


NOTES:

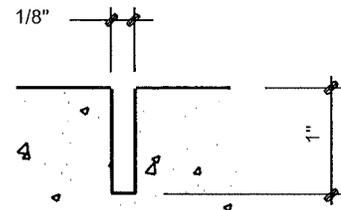
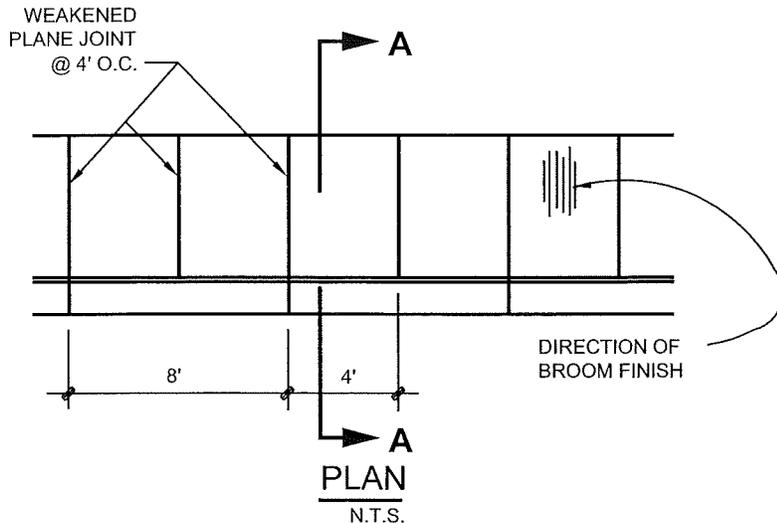
1. TOP 6" OF NATIVE SUBGRADE SHALL BE COMPACTED TO 90% OR MOISTENED IF UNDISTURBED. SUBGRADE COMPACTION SHALL BE APPROVED BY THE CITY ENGINEER.
2. ALL EXPOSED CORNERS SHALL HAVE A 1/2" RADIUS.
3. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS; 3/4" MAXIMUM AGGREGATE SIZE 4" MAXIMUM SLUMP AT TIME OF PLACEMENT. 1/2 LB. LAMPBLACK PER YARD.
4. EXPANSION JOINTS SHALL BE SHAPED TO FIT CONCRETE AND PLACED AT ALL RETURNS; AROUND FIXED OBJECTS SUCH AS HYDRANTS, POLES AND DROP INLETS; AND MAX. 200' INTERVALS. THE JOINTS SHALL BE FILLED WITH 1/4" PRE MOLDED FILLER CONFORMING TO CALTRANS SPECIFICATIONS 51-1.12C (ASTM 1751)
5. THE TOP SURFACE AND FACE OF CONCRETE IMPROVEMENTS SHALL BE TRUE, STRAIGHT AND FREE OF BLEMISHES OR IRREGULARITIES. THE SURFACE MUST NOT VARY MORE THAN 1/4" FROM A 10' STRAIGHT EDGE PLACED ON ITS SURFACE. THE WIDTH MUST BE UNIFORM.
6. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ.FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
7. ELEVATION DIFFERENTIAL BETWEEN SIDEWALK & TREE WELL FINISHED GRADE SHALL NOT EXCEED 4 INCHES.
8. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE.

CITY OF TRACY

	REVIEWED BY: <i>Alhano</i>		STANDARD PLAN No.	122
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	10' SIDEWALK	
	Rev:	Rev:		
Rev:	Rev:			



SECTION A-A
N.T.S.



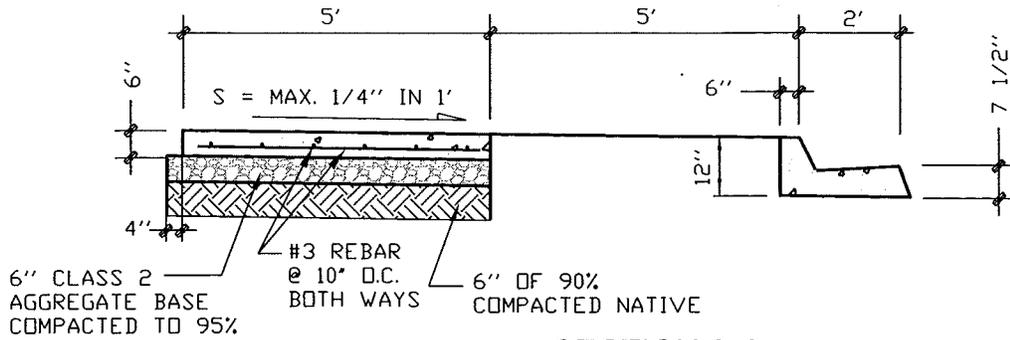
WEAKENED PLANE JOINT
N.T.S.

NOTES:

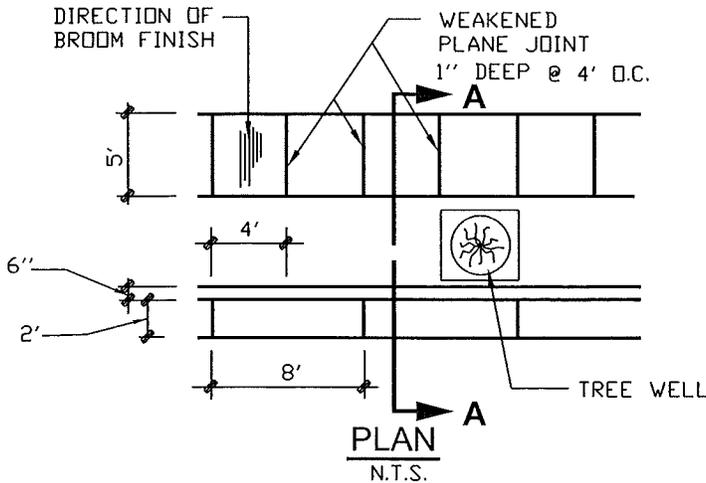
1. TOP 6" OF NATIVE SUBGRADE SHALL BE COMPACTED TO 90% OR MOISTENED IF UNDISTURBED. SUBGRADE COMPACTION SHALL BE APPROVED BY THE CITY ENGINEER.
2. ALL EXPOSED CORNERS SHALL HAVE A 1/2" RADIUS.
3. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS: 3/4" MAXIMUM AGGREGATE SIZE, 4" MAXIMUM SLUMP AT TIME OF PLACEMENT WITH 1/2 POUND LAMPBLACK PER YARD.
4. EXPANSION JOINTS SHALL BE SHAPED TO FIT CONCRETE AND PLACED AT ALL RETURNS; AROUND FIXED OBJECTS SUCH AS HYDRANTS, POLES AND DROP INLETS; AND MAX. 200' INTERVALS. THE JOINTS SHALL BE FILLED WITH 1/4" PRE MOLDED FILLER CONFORMING TO CALTRANS SPECIFICATIONS 51-1.12C (ASTM 1751).
5. THE TOP SURFACE AND FACE OF CONCRETE IMPROVEMENTS SHALL BE TRUE, STRAIGHT AND FREE OF BLEMISHES OR IRREGULARITIES. THE SURFACE MUST NOT VARY MORE THAN 1/4" FROM A 10' STRAIGHT EDGE PLACED ON ITS SURFACE. THE WIDTH MUST BE UNIFORM.
6. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ.FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
7. ANY RESIDENTIAL SIDEWALK WIDER THAN 5' REQUIRES A SCORE PATTERN DESIGN THAT MUST BE ACCEPTABLE TO THE CITY ENGINEER.
8. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE.

CITY OF TRACY

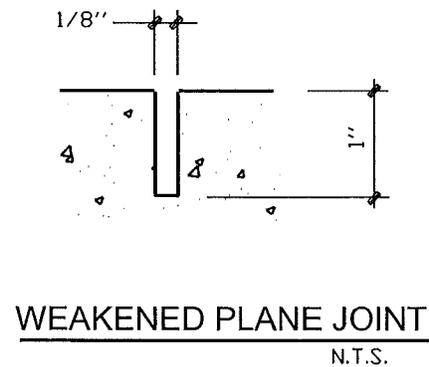
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	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	RESIDENTIAL SIDEWALK
	Rev:	Rev:	
Rev:	Rev:		



SECTION A-A
N.T.S.



PLAN
N.T.S.



WEAKENED PLANE JOINT
N.T.S.

NOTES:

1. TOP 6" OF NATIVE SUBGRADE SHALL BE COMPACTED TO 90% OR MOISTENED IF UNDISTURBED. SUBGRADE COMPACTION SHALL BE APPROVED BY THE CITY ENGINEER.
2. ALL EXPOSED CORNERS SHALL HAVE A 1/2" RADIUS.
3. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS: 3/4" MAXIMUM AGGREGATE SIZE, 4" MAXIMUM SLUMP AT TIME OF PLACEMENT WITH 1/2 LB. LAMPBLACK PER YARD.
4. EXPANSION JOINTS SHALL BE SHAPED TO FIT CONCRETE AND PLACED AT ALL RETURNS, AROUND FIXED OBJECTS SUCH AS HYDRANTS, POLES, AND DROP INLETS, AT MAXIMUM 200' INTERVALS. THE JOINTS SHALL BE FILLED WITH 1/4" PRE MOLDED FILLER CONFORMING TO CALTRANS SPECIFICATIONS 51-1.12C (ASTM 1751).
5. THE TOP SURFACE AND FACE OF CONCRETE IMPROVEMENTS SHALL BE TRUE, STRAIGHT AND FREE OF BLEMISHES OR IRREGULARITIES. THE SURFACE MUST NOT VARY MORE THAN 1/4" FROM A 10' STRAIGHT EDGE PLACED ON ITS SURFACE. THE WIDTH MUST BE UNIFORM.
7. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ.FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
8. ELEVATION DIFFERENTIAL BETWEEN SIDEWALK AND TREE WELL FINISHED GRADE SHALL NOT EXCEED 4 INCHES.
9. SIDEWALK SHALL HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE.

CITY OF TRACY

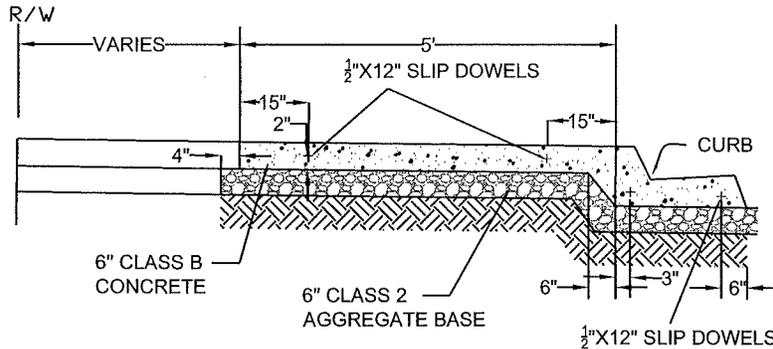
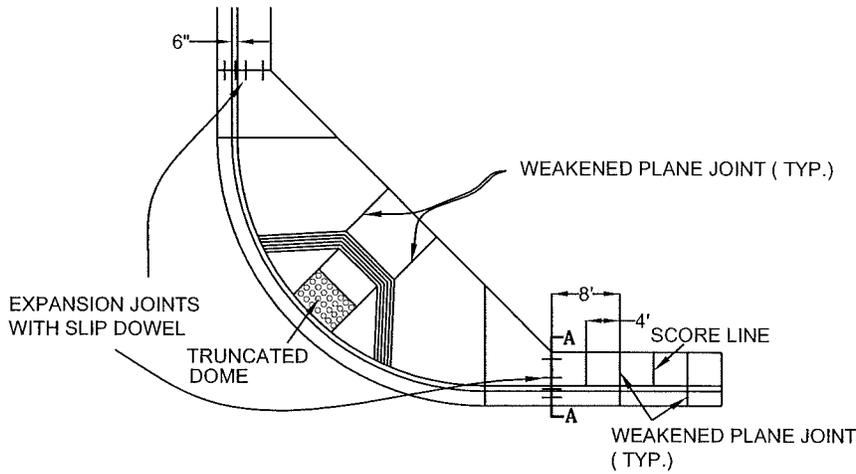
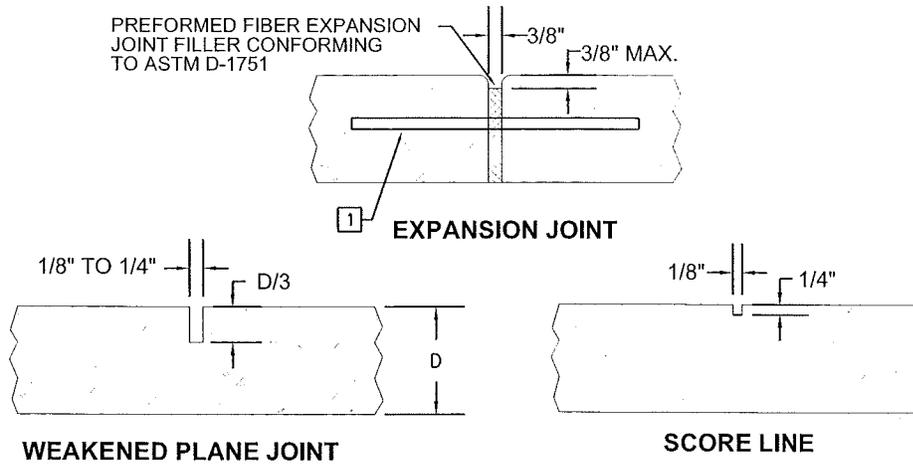


REVIEWED BY: <i>[Signature]</i>	CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:	
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STANDARD
PLAN
No.

126

**SIDEWALK WITH
PLANTING STRIP**



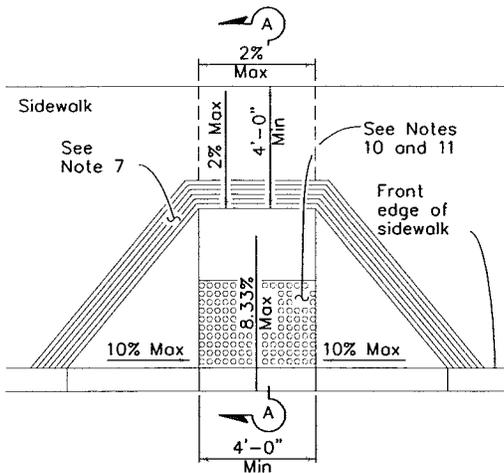
SECTION AA

NOTES:

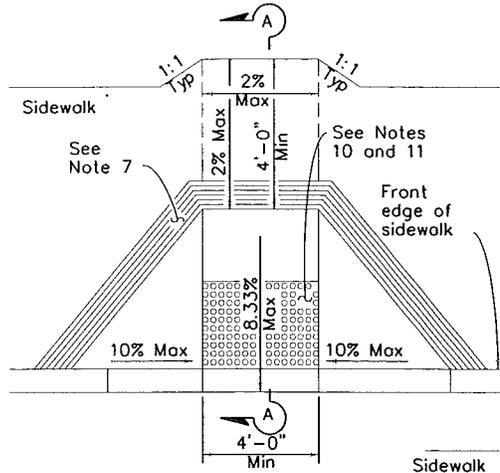
1. SIDEWALKS GREATER THAN 5 FEET SHALL REQUIRE PRIOR APPROVAL OF A SCORE PATTERN DESIGN.
2. EXPANSION JOINTS SHALL BE SHAPED TO FIT CONCRETE AND PLACED AT ALL RETURNS, AROUND FIXED OBJECTS SUCH AS HYDRANTS, POLES AND DROP INLETS, AND AT MAXIMUM 200' INTERVALS. THE JOINTS SHALL BE FILLED WITH 1/4" PRE MOLDED FILLER CONFORMING TO CALTRANS SPECIFICATIONS 51-1.12C (ASTM 1751).

CITY OF TRACY

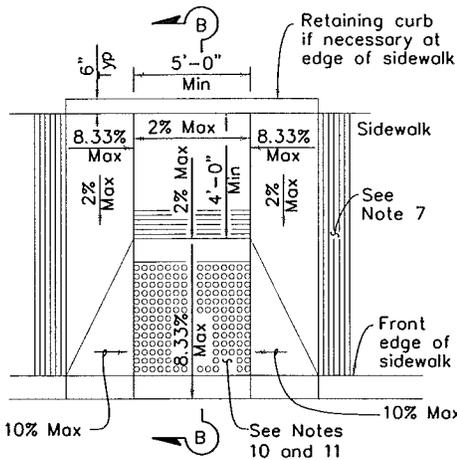
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	CITY ENGINEER RCE 37186	
	Res No. 2008-255	DATE:
	Rev:	Rev:
	Rev:	EXPANSION JOINTS, WEAKENED PLANE JOINTS AND SCORE LINES



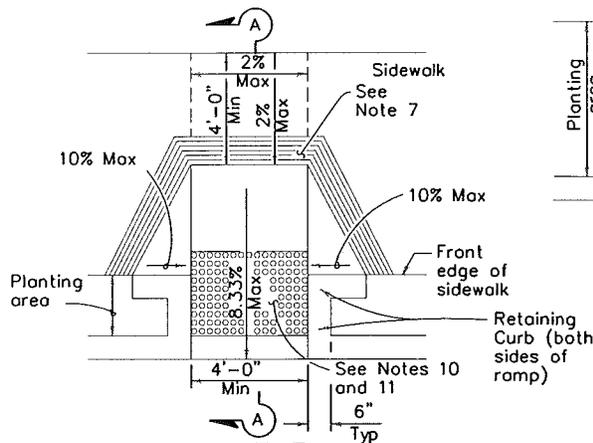
CASE A



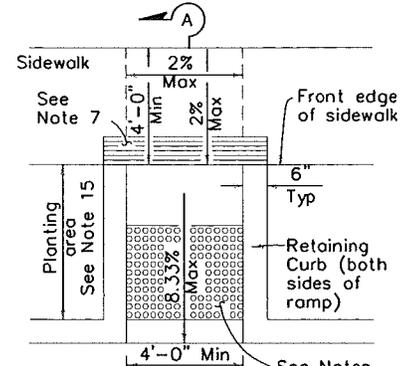
CASE D



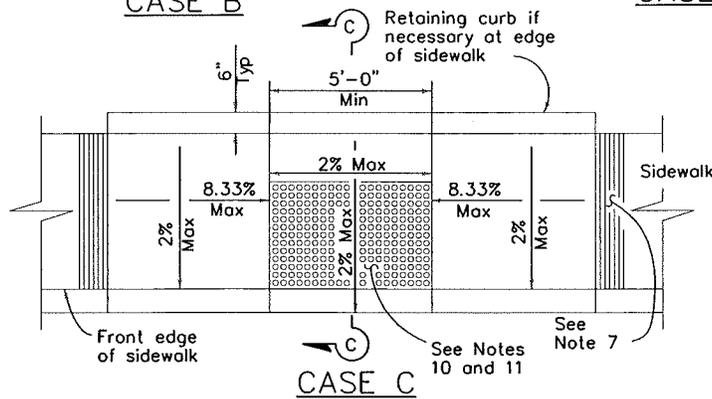
CASE B



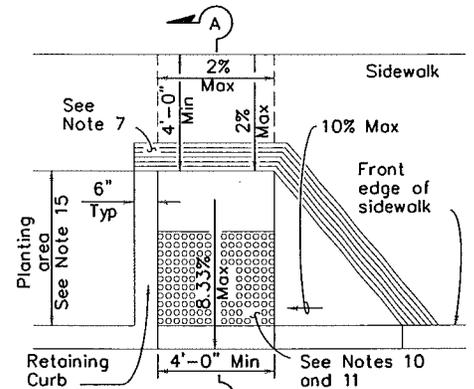
CASE E



CASE F

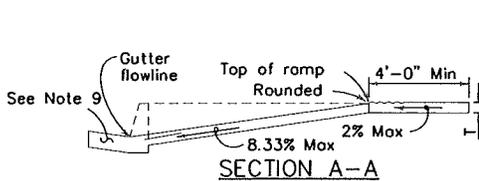


CASE C

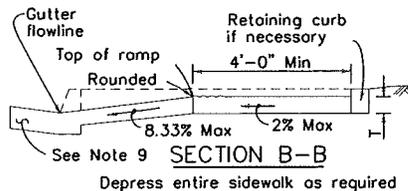


CASE G

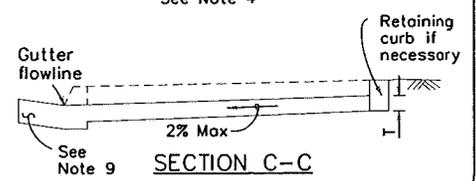
See Note 4



SECTION A-A



Depress entire sidewalk as required



SECTION C-C

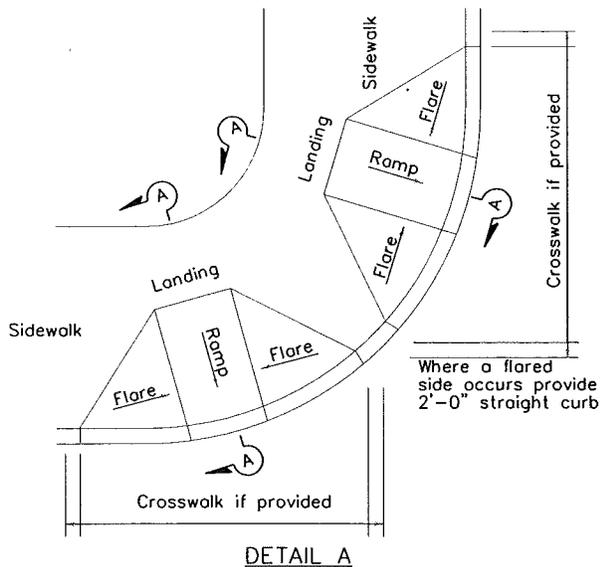
CITY OF TRACY



REVIEWED BY: <i>W. H. Hume</i>	CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:	
Rev:	Rev:	
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STANDARD PLAN No. **130** SHEET 1 OF 3

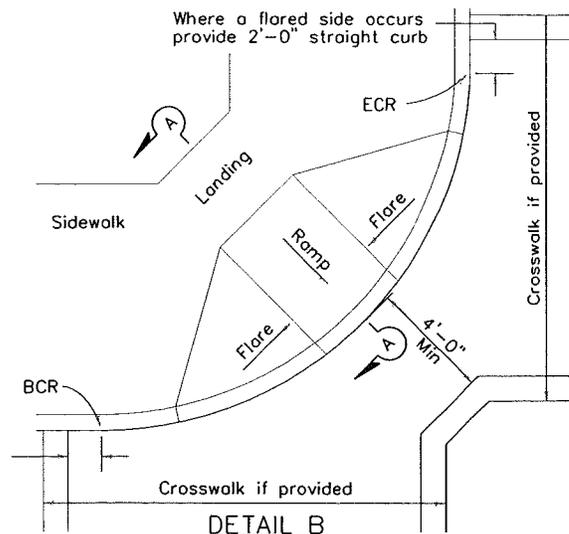
CURB RAMPS



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

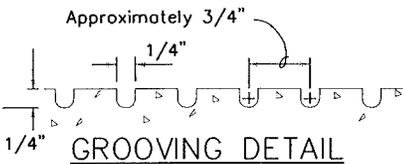
See Note 1



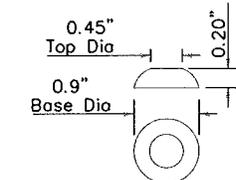
DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

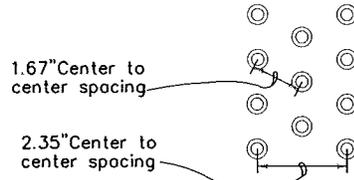
See Notes 1 and 3



GROOVING DETAIL

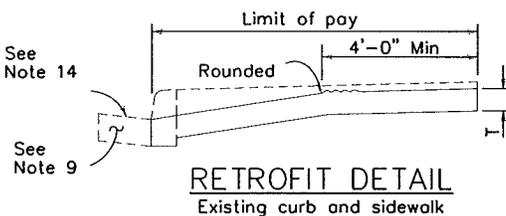


RAISED TRUNCATED DOME



RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE

See Note 10



RETROFIT DETAIL

Existing curb and sidewalk

NOTES:

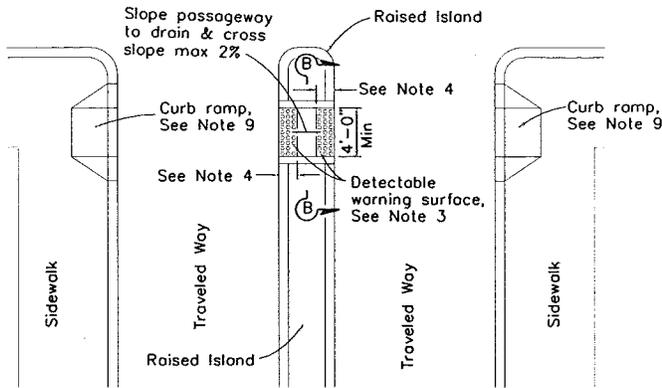
- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-0" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
- As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
- If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-0".
- Side slope of ramp flares vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
- The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 1/2" on center. See grooving detail. Entire grooved border to the curb ramp shall be maximum 2% slope.
- Transitions from ramps and landing to walks, gutters or streets shall be flush and free of abrupt changes.
- Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-0" of the bottom of the curb ramp.
- Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details on this plan and the requirements in the Special Provisions.
- The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
- Sidewalk and ramp thickness, "T", shall be 3 1/2" minimum.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
- For retrofit conditions, removal and replacement of curb apron will be at the Contractor's option, unless otherwise shown on project plans.
- Finished Planter area surface shall be not extend any lower than 4" from the top of the retaining curb.

CITY OF TRACY

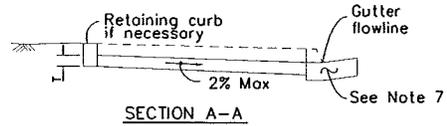
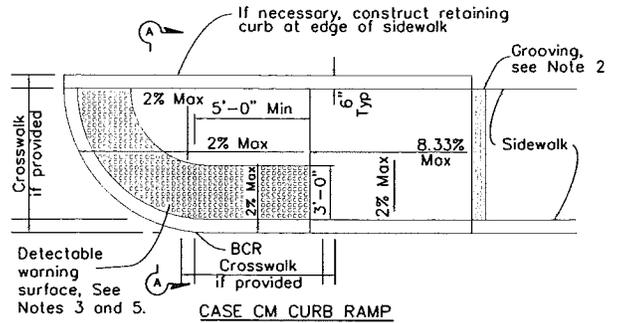


REVIEWED BY: <i>[Signature]</i>	STANDARD PLAN No. 130
CITY ENGINEER RCE 37186	SHEET 2 OF 3
Res No. 2008-255	DATE:
Rev:	Rev:
Rev:	Rev:

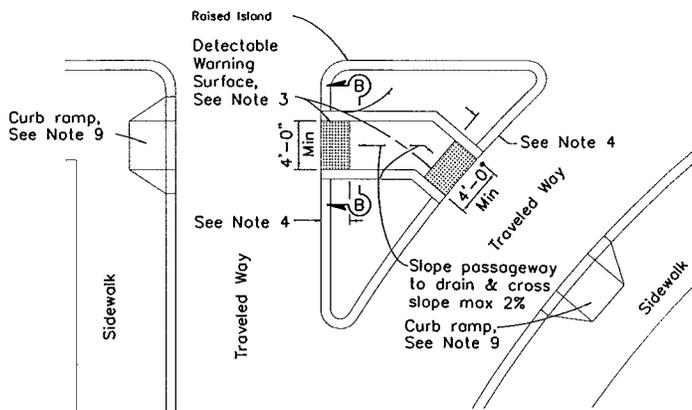
CURB RAMP NOTES & DETAILS



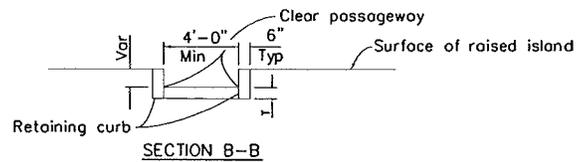
TYPE A PASSAGEWAY



SECTION A-A



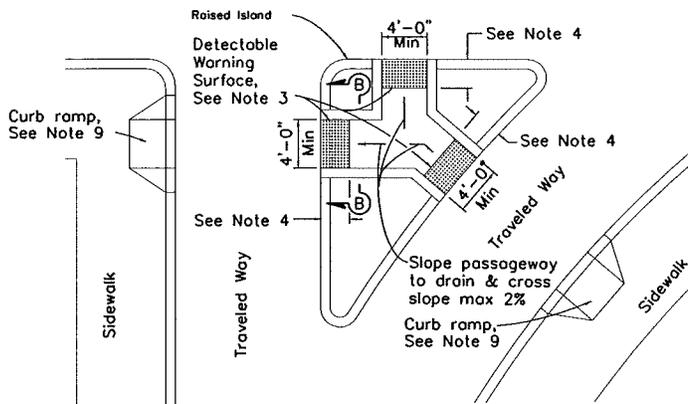
TYPE B PASSAGEWAY



SECTION B-B

NOTES:

1. Sidewalk, ramp and passageway thickness, "T", shall be 3/4" minimum.
2. For details of grooving used with Case CM curb ramp, see Standard Plan 130-2 of 3.
3. For details of detectable warning surfaces, see Standard Plan 130-2 of 3.
4. Where on island passage way length is less than 8'-0", a detectable warning surface shall not be used. Where an island passage way length is greater than or equal to 8'-0", each detectable warning surface shall extend the full width and 3'-0" depth of the passage way length.
5. For Case CM curb ramp, the edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
6. Transitions from ramps to walks, gutters or streets shall be flush and free of abrupt changes.
7. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-0" of the top and bottom of the curb ramp.
8. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
9. For additional curb ramp details, see City Standard Plan 130, Sheets 1 and 2.



TYPE C PASSAGEWAY

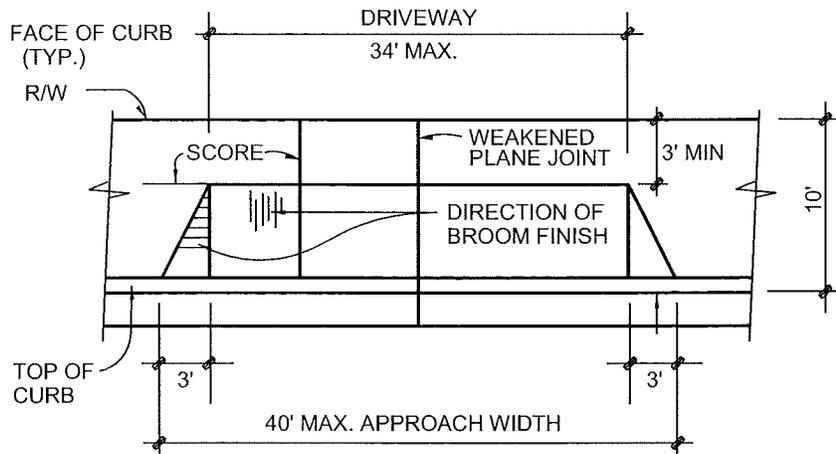
CITY OF TRACY



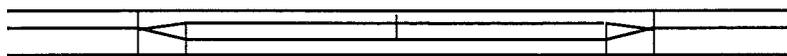
REVIEWED BY:	<i>Alhama</i>
CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:
Rev:	Rev:
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STANDARD PLAN No. **130** SHEET 3 OF 3

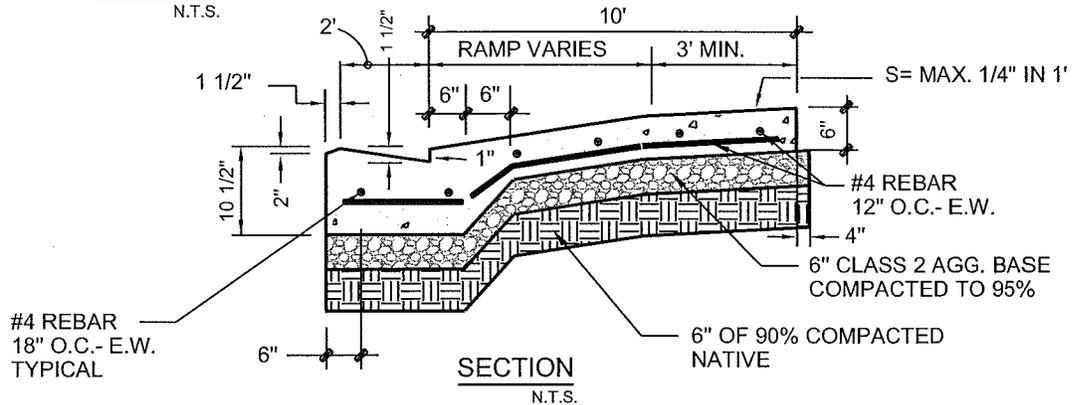
CURB RAMP & ISLAND PASSAGEWAY



PLAN
N.T.S.



PROFILE
N.T.S.



SECTION
N.T.S.

NOTES:

1. COMMERCIAL DRIVEWAY APPROACH SHALL NOT EXCEED 34'
2. TOP 6" OF NATIVE SUBGRADE SHALL BE COMPACTED TO 90% OR MOISTENED IF UNDISTURBED. SUBGRADE COMPACTION SHALL BE APPROVED BY THE CITY ENGINEER.
3. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS: 3/4" MAXIMUM AGGREGATE SIZE, 4" MAXIMUM SLUMP AT TIME OF PLACEMENT WITH 1/2 LB LAMPBLACK PER YARD.
4. SIDEWALK, GUTTERS, ISLANDS AND DRIVEWAY SHALL HAVE SURFACE FREE OF BLEMISHES OR IRREGULARITIES. THE SURFACE SHALL NOT VARY MORE THAN 1/4" (S.P.126) FROM A 10' STRAIGHT EDGE EXCEPT AT GRADE CHANGES.
5. ALL EXPOSED CORNERS SHALL HAVE A 1/2" RADIUS.
6. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ.FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
7. WEAKENED PLANE JOINT SPACING NOT TO EXCEED 8'.
8. IN EXISTING STREETS, ASPHALT SHALL BE SAW CUT ALONG LIMITS APPROVED BY THE INSPECTOR, 12" MINIMUM FROM LIP OF GUTTER. REPLACE AC WITH 3" AC OVER 12" AB.

CITY OF TRACY



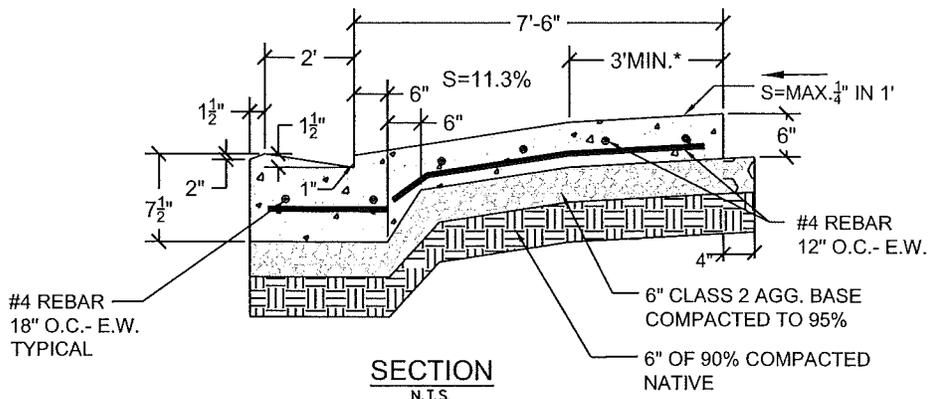
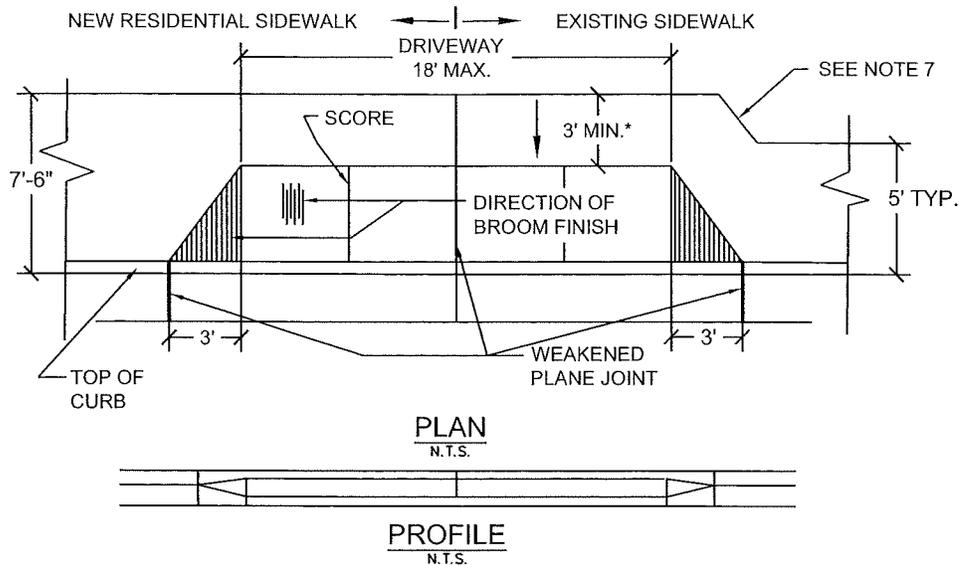
Think Inside the Triangle™

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CITY ENGINEER	RCE	37186
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STANDARD
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No.

133

**COMMERCIAL
DRIVEWAY APPROACH**

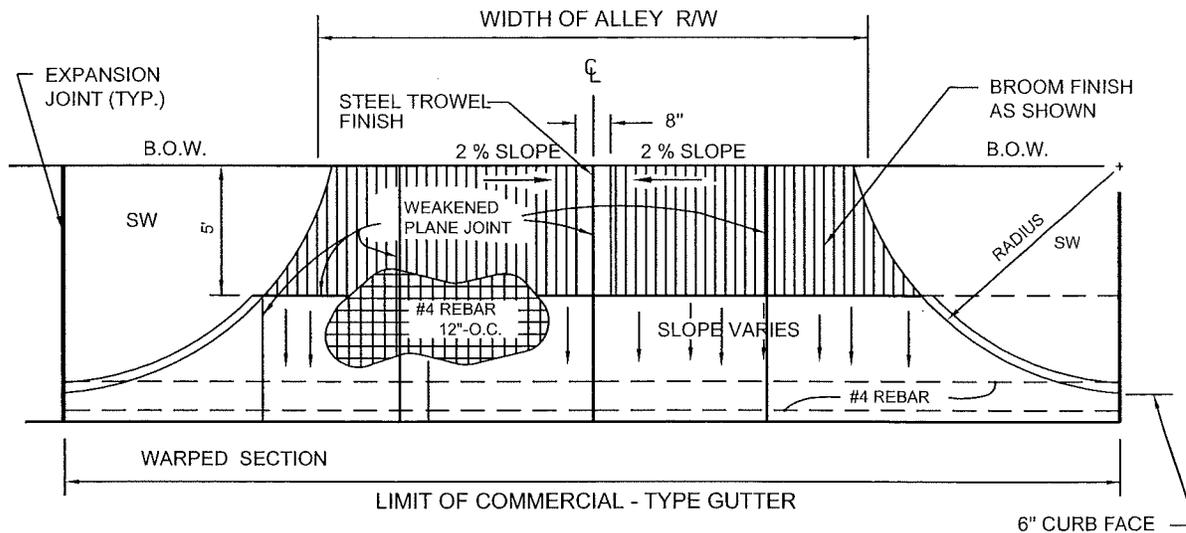


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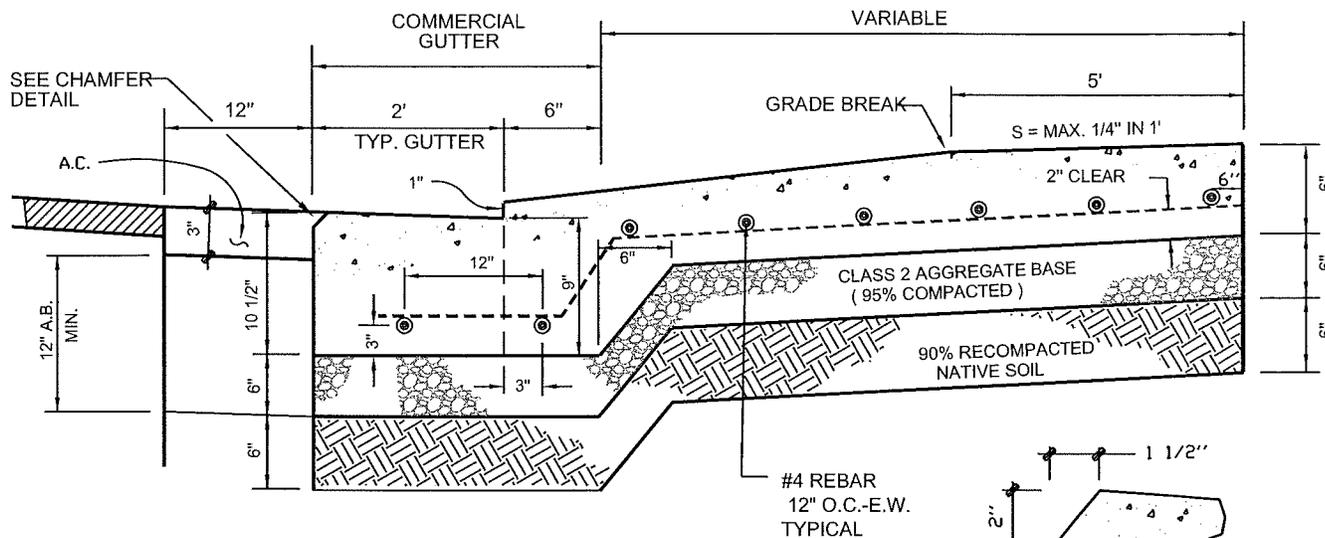
1. TOP 6" OF NATIVE SUBGRADE SHALL BE COMPACTED TO 90% OR MOISTENED IF UNDISTURBED. SUBGRADE COMPACTION SHALL BE APPROVED BY THE CITY ENGINEER.
2. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS; 3/4" MAXIMUM AGGREGATE SIZE, 4" MAXIMUM SLUMP AT TIME OF PLACEMENT WITH 1/2 LB LAMPBLACK PER YARD.
3. SIDEWALK, GUTTERS, ISLANDS AND DRIVEWAYS SHALL HAVE SURFACE FREE OF BLEMISHES OR IRREGULARITIES. THE SURFACE SHALL NOT VARY MORE THAN 1/4" (S.P. 126) FROM A 10' STRAIGHT EDGE EXCEPT AT GRADE CHANGE.
4. ALL EXPOSED CORNERS SHALL HAVE A 1/2" RADIUS.
5. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ. FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
6. IN EXISTING STREETS, ASPHALT SHALL BE SAW CUT ALONG LIMITS APPROVED BY THE ENGINEER, 12" MINIMUM FROM LIP OF GUTTER. REPLACE A.C. WITH 3" AC OVER 12" AB.
7. A MINIMUM 3' WIDE SIDEWALK AREA WITH A MAXIMUM CROSS SLOPE OF 1/4" IN ONE FOOT SHALL BE INSTALLED AS A TRANSITION ADJACENT TO AND BEHIND RESIDENTIAL DRIVEWAY TO COMPLY WITH TITLE 24 ACCESSIBILITY STANDARDS OF THE CALIFORNIA CODE OF REGULATIONS.

CITY OF TRACY

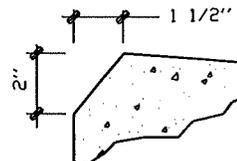
	REVIEWED BY: <i>Alhano</i>		STANDARD PLAN No. 134
	CITY ENGINEER RCE 37186		
	2008-255		RESIDENTIAL DRIVEWAY APPROACH
	Rev:	Rev:	
Rev:	Rev:		



PLAN
N.T.S.



CROSS SECTION
N.T.S.



CHAMFER DETAIL

NOTES:

1. SAW CUT ASPHALT ALONG LIMITS APPROVED BY THE INSPECTOR AND FORM LIP OF GUTTER. REPLACE WITH 3" A.C. OVER 12" A.B. (MIN.)
2. CONCRETE SHALL BE FIVE SACK CLASS "B", 2500 PSI AT 28 DAYS: 3/4" MAXIMUM AGGREGATE SIZE, 4" MAXIMUM SLUMP AT TIME OF PLACEMENT WITH 1/2 LB. LAMPBLACK PER YARD.
3. TOP 6" OF NATIVE SUBGRADE SHALL BE COMPACTED TO 90% OR MOISTENED IF UNDISTURBED. SUBGRADE COMPACTION SHALL BE APPROVED BY THE CITY ENGINEER.
4. CONCRETE SHALL HAVE A LIGHT BROOM FINISH AND AN IMPERVIOUS MEMBRANE OR SPRAY CURING COMPOUND APPLIED AT 1 GAL./150 SQ. FT. CURING COMPOUND SHALL BE WHITE PIGMENTED, TYPE 2, CONFORMING TO ASTM C309, CLASS B. APPLY IMMEDIATELY AFTER MOISTURE SHEEN DISAPPEARS.
5. ALL SCORE LINES AND GRADE SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
6. RADIUS EQUALS DISTANCE FROM FACE OF CURB TO BACK OF SIDEWALK OR FROM FACE OF CURB TO PROPERTY LINE IF NO SIDEWALK EXISTS.

CITY OF TRACY

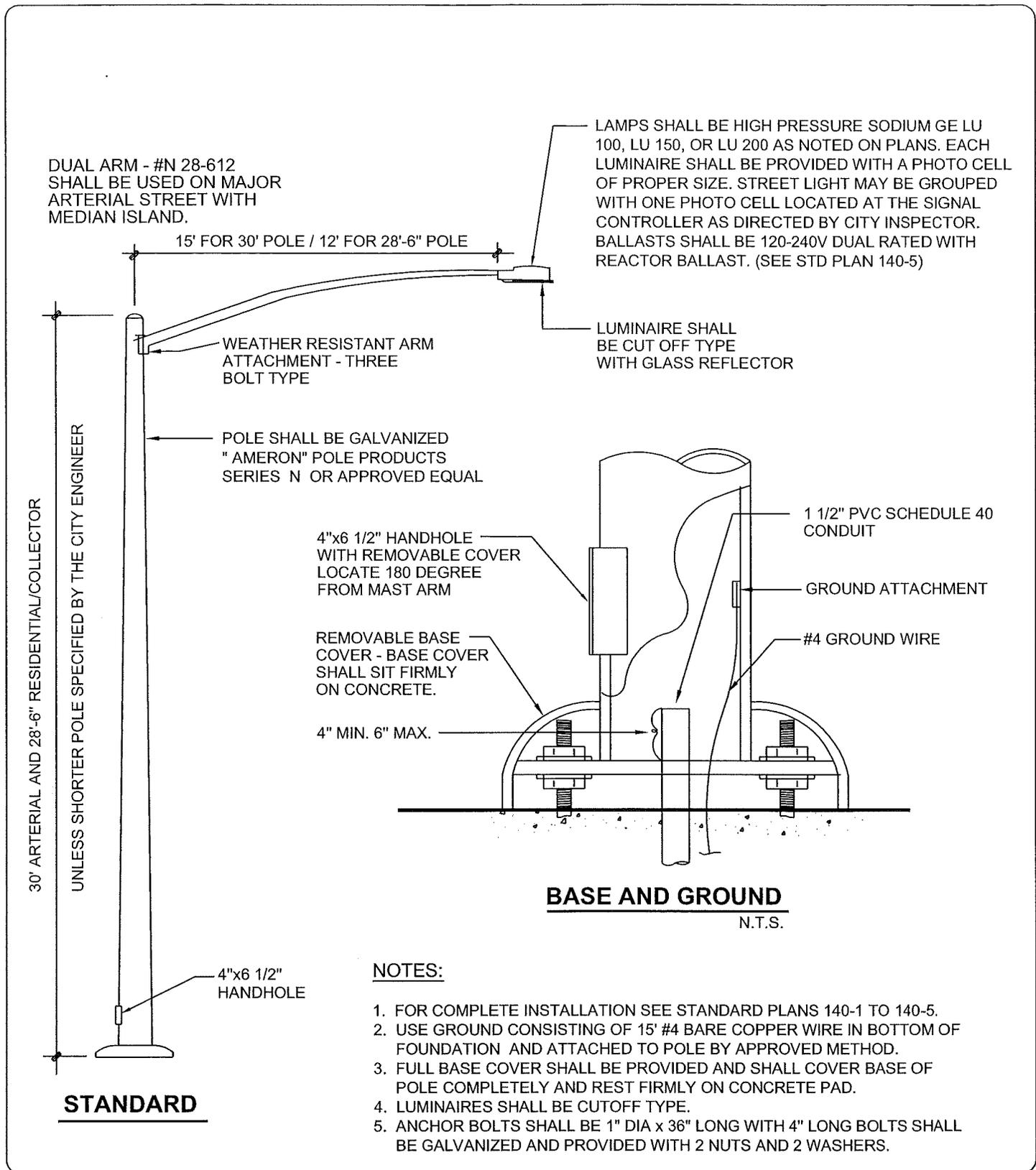


REVIEWED BY: <i>Alhanna</i>	CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:	
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STANDARD
PLAN
No.

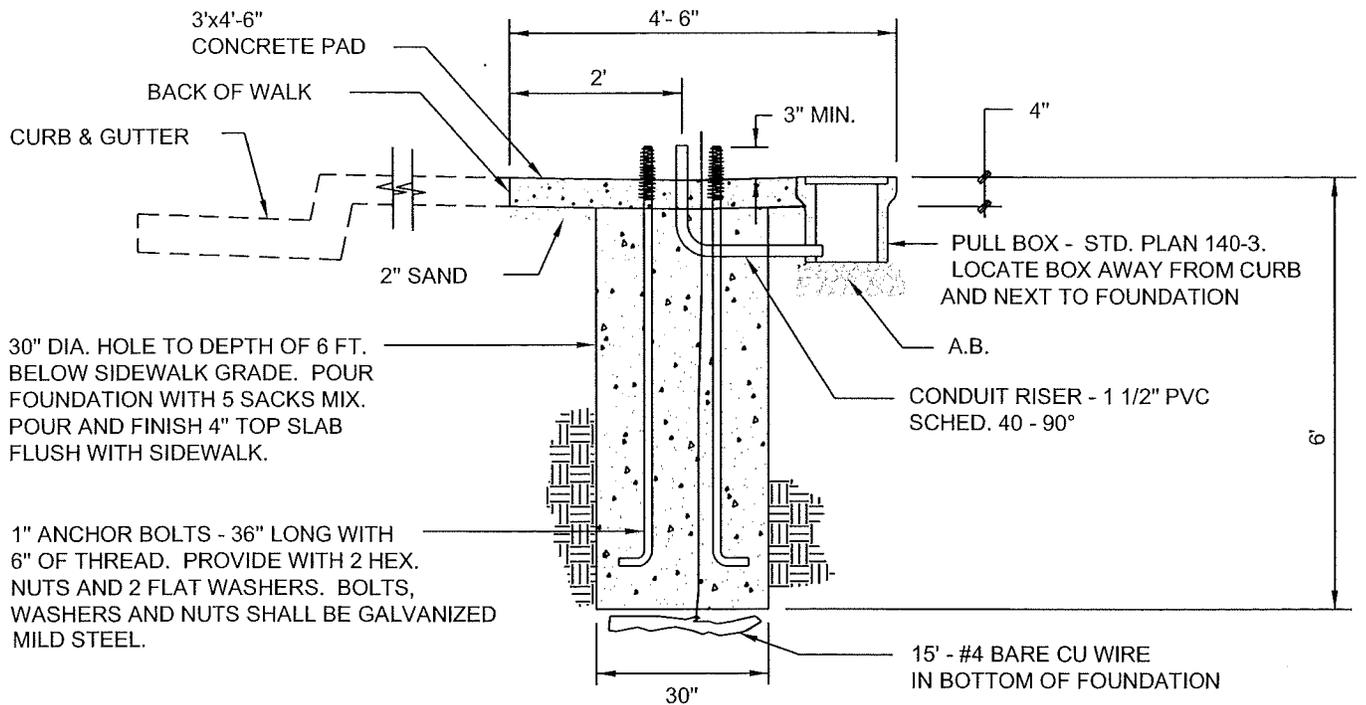
135

ALLEY APPROACH



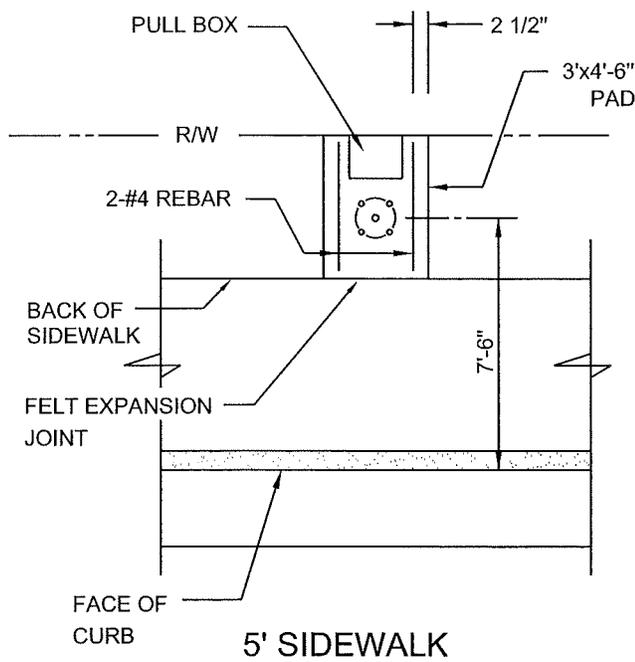
CITY OF TRACY

 <p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No. 140	SHEET 1 OF 5	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	STREET LIGHT	
	Rev:	Rev:		
Rev:	Rev:			



PROFILE

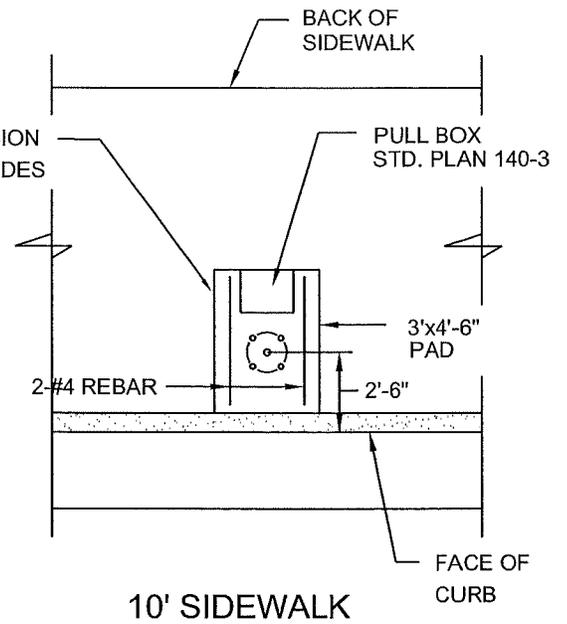
N.T.S.



FELT EXPANSION JOINT - ALL SIDES

PLAN

N.T.S.



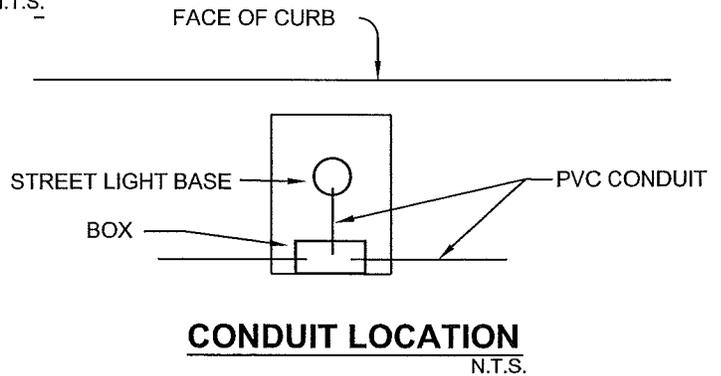
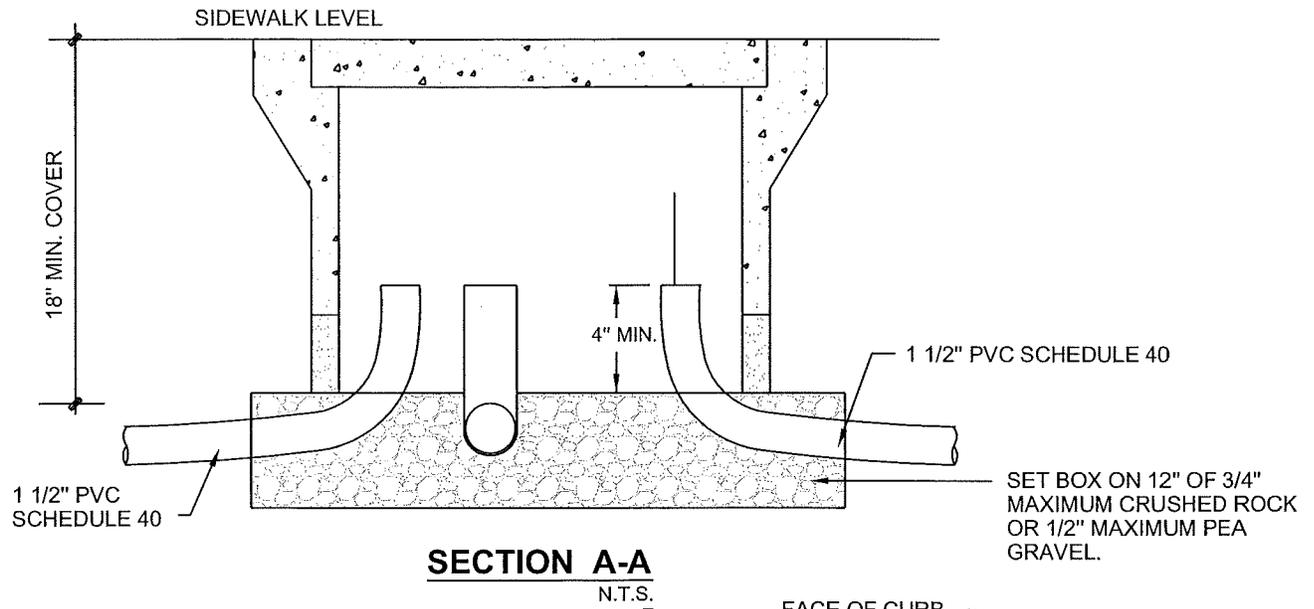
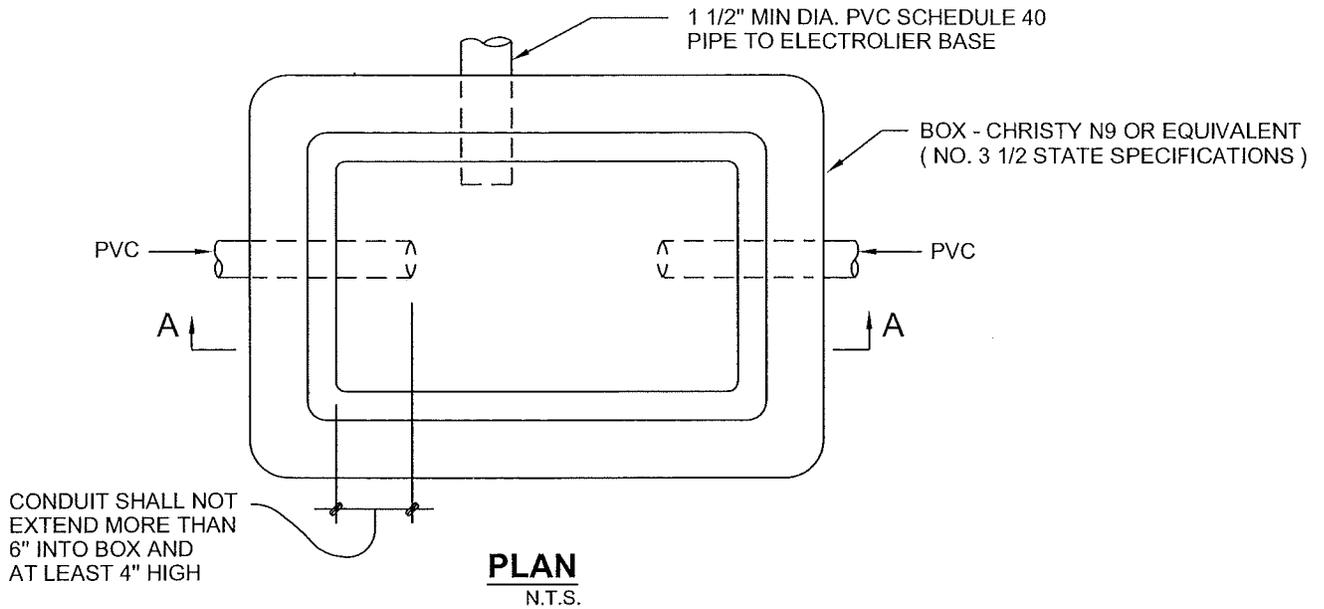
CITY OF TRACY



REVIEWED BY: <i>Alhama</i>	CITY ENGINEER	RCE 37186
Res No. 2008-255	DATE:	
Rev:	Rev:	
Rev:	Rev:	

STANDARD PLAN No. **140** SHEET 2 OF 5

STREET LIGHT POLE FOUNDATION



NOTES:

1. TOPS OF ALL CONDUIT ENTERING BOX SHALL BE AT LEAST 4" BELOW BASE OF BOX.
2. PULL BOX SHALL HAVE A LOCKING LID MARKED "STREET LIGHT".

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No. 140	SHEET 3 OF 5
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	STREET LIGHT PULL BOX
	Rev:	Rev:	
Rev:	Rev:		

NOTES:

1. STREET LIGHT STANDARDS SHALL BE PLACED AT ALL INTERSECTIONS, THE ENDS OF CUL-DE-SACS AND COURTS 100 FEET OR MORE IN DEPTH, AND EVENLY SPACED, DEPENDING ON BLOCK LENGTHS, 250 FEET MAXIMUM BETWEEN LIGHTS STAGGERED FROM ONE SIDE TO THE OTHER. LIGHTS ON MINOR ARTERIAL STREETS SHALL BE SPACED A MAXIMUM OF 170' (SEE NOTE #16). MAJOR ARTERIAL STREETS SHALL HAVE DOUBLE ARM STREET LIGHT, MAXIMUM SPACING 170' (SEE NOTE #16). LIGHTS WITHIN MEDIAN ISLAND SHALL BE AT LEAST 20' FROM THE ISLAND NOSE.
2. WIRING SHALL BE UNDERGROUND IN 1-1/2" MIN. UL APPROVED SCHEDULE 40, HEAVY WALL RIGID PVC CONDUIT. (SPECIAL CONDITIONS MAY REQUIRE INCREASE OF CONDUIT SIZE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.) ALL CONDUCTORS SHALL BE COPPER.
3. CONDUIT SYSTEM SHALL BE COMPLETE FROM THE STREET LIGHT TO THE PG&E SOURCE.
4. INSTALL A CONCRETE PULL BOX AT EACH ELECTROLIER PER CITY OF TRACY STANDARDS. MINIMUM SIZE NO. 3-1/2, LID MARKING - "STREET LIGHT" (LOCKING LID).
5. SEE CITY OF TRACY STANDARD DRAWINGS 140 SHEETS 1-5 FOR ADDITIONAL DETAILS.
6. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTIONS 86-1, 86-2, AND 86-6 OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
7. WATERPROOF FUSED SPLICE CONNECTORS WITH PROPER 10 AMP FUSE SHALL BE INSTALLED IN EACH PULL BOX ADJACENT TO A LIGHT STANDARD.
8. WIRE IN POLE FROM LUMINAIRE TO PULL BOX AT BASE OF POLE SHALL BE #10 COPPER SERVING A SINGLE LUMINAIRE (INSULATION RATING SHALL BE THHN/THW 600V RATED).
9. WIRE IN UNDERGROUND CONDUIT SHALL BE #8 COPPER STRANDED WIRE (INSULATION RATING SHALL BE THHN/THW 600V RATED). INCLUDE COATED #8 AWG RUN CONTINUOUSLY IN ALL CIRCUITS.
10. THE OWNER OR CONTRACTOR OF ANY LIGHTING PROJECT IS REQUIRED TO PAY PG&E COMPANY THE CONNECTION FEE BEFORE ACCEPTANCE BY THE CITY.
11. ALL ELECTROLIERS SHALL BE GROUNDED AS SHOWN ON STANDARD PLANS.
12. ALL CONDUIT ENDS IN PULL BOXES OR STANDARDS SHALL BE SECURELY PACKED WITH AN APPROVED SEALANT AFTER WIRE IS PULLED.
13. ALL SPLICES IN CONDUCTORS SHALL BE MADE WITH APPROVED WIRE CONNECTOR AND MADE WATER PROOF BY APPROVED METHOD. SEE CALTRANS STANDARD PLAN ES-13A.
14. ALL CONDUIT SHALL BE A MINIMUM OF 3' BELOW THE FLOWLINE OF GUTTER EXCEPT WHEN UNDER THE SIDEWALK. CONDUIT SHALL BE A MINIMUM OF 18" DEEP.
15. THE DEVELOPER OF SUBDIVISIONS SHALL BE REQUIRED TO PROVIDE THE CITY WITH ONE ELECTROLIER FOR EACH TWENTY (20) ELECTROLIERS (OR FRACTION THEREOF) OF EACH SIZE INVOLVED IN THE TRACT LIGHTING. THE ELECTROLIERS SHALL BE IDENTICAL TO THOSE INSTALLED IN THE SUBDIVISION. THIS REQUIREMENT WILL BE WAIVED IF THE TOTAL NUMBER OF ELECTROLIERS INSTALLED IN THE TRACT IS LESS THAN FIVE (5). THE ELECTROLIERS FURNISHED TO THE CITY SHALL BE COMPLETE, INCLUDING POLE, MAST ARM, LUMINAIRE AND ADEQUATE WIRE TO COMPLETE THE SPLICE IN THE PULL BOX ADJACENT TO THE POLE BASE AND SHALL BE DELIVERED TO THE CITY AT BOYD SERVICE CENTER.
16. THE SERVICE POINT AND ALL CONDUIT SHALL BE INSTALLED WITHIN CITY RIGHT-OF-WAY.
17. ANY DEVIATIONS OR SPECIAL PROVISIONS OF THESE STANDARDS WILL REQUIRE PRIOR APPROVAL BY CITY ENGINEER.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 140 SHEET 4 OF 5
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	Rev:	

NOTES: (CON'T.)

18. ALL BALLASTS SHALL BE REACTOR (120 VOLT, 150 WATT; 120 VOLT, 100 WATT; 120V/240 VOLT, 200 WATT) AND SHALL BE FIELD IDENTIFIABLE. BALLASTS SHALL BE ON A REMOVABLE POWER DOOR.
19. GENERAL NOTE OF LUMINAIRES:

STREET TYPE	VOLTAGE	MASTER ARM LENGTH	POLE HEIGHT	ARM RISE	SIZE
ARTERIAL	120/240	15'	30'	+4' 9"	200 WATT
COLLECTOR AND INDUSTRIAL	120	12'	28'-6"	+4' 3"	150 WATT
RESIDENTIAL	120	12'	28'-6"	+4' 3"	100 WATT

20. LAMP BULBS SHALL HAVE OPERATING LIFE OF 3 YEARS OR A MINIMUM OF 13,140 HOURS.
21. A STRIP OF YELLOW, SELF-ADHESIVE REFLECTIVE TAPE, 4" WIDE, IS TO BE INSTALLED AROUND THE PERIMETER OF EACH POLE AT 7 FEET ABOVE SIDEWALK GRADE.
22. ALL WORK SHALL COMPLY WITH LATEST REVISION OF NATIONAL ELECTRIC CODE STANDARDS.
23. STREET LIGHTING FIXTURES SHALL BE AS SHOWN BELOW OR APPROVED EQUAL:

STANDARD STREETLIGHTS

	ITT HPS	GE HPS	
100 WATT	313-5F112-DJ	M2AC-10S-1M2JMC	2-TYP. 2.1
150 WATT	313-5F162-DJ	M2AC-15S-1M2JMC	3-TYP. 3.1
200 WATT	325-H1J3-DJ	M4AC-20S-3A2GMC31	

DOWNTOWN STREETSCAPE LIGHTS

TYPE F1 - 150W HPS (HIGH PRESSURE SODIUM) 16 FT ANTIQUE STREETLIGHT (ACORN STYLE) UNION METAL CORPORATION 13'-2" POLE WITHOUT RECEPTACLE DESIGN #P874-730-B151-Y3F OR EQ WITH LUMINAIRE HADCO #R53-B-B-N-N-2J-T-N-G-150S-F, WITH MULTI-TAP BALLAST, WITH ACRYLIC LENS.

TYPE F2 - 150W HPS 30 FT ANTIQUE STREETLIGHT (TEARDROP STYLE) UNION METAL CORPORATION 28'-0" POLE WITHOUT RECEPTACLE DESIGN #B99-B258-Y2 OR EQ WITH LUMINAIRE LUMEC #RN20-150HPS-THA3-ACDR-QTA/SMA-BKTX FIXTURE, WITH MULTI-TAP BALLAST, WITH ACRYLIC LENS.

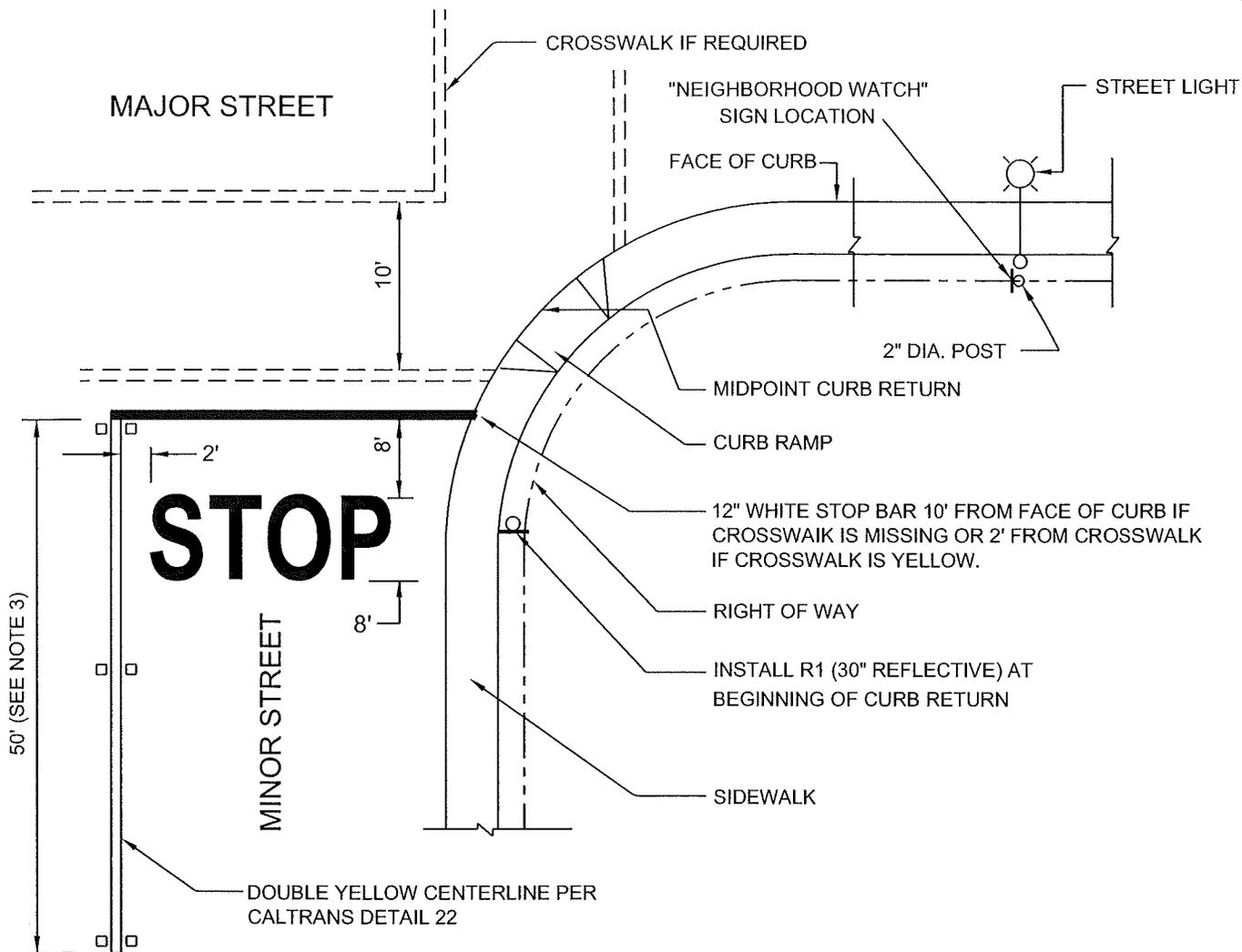
TYPE F3 - 70W HPS 3.5 FT ANTIQUE LIGHTED BOLLARD WITH BALL TOP 3'-6" HIGH LIGHTED BALLTOP CAST ALUMINUM BOLLARD, ANTIQUE STREET LAMPS "WASHINGTON SERIES" BLCA BW 14BTL 70S AWS - ANDG.

TYPE F4 - 100W MH (METAL HALIDE) TREE UPLIGHT RECESSED, GRADE MOUNTED TREE UPLIGHT WITH 100 W METAL HALIDE LAMP, REMOTE BALLAST BOX, CONCRETE BASE, BRANCH CIRCUIT CONDUITS AND CONDUCTORS; HYDREL 9350 ED B 100M 208 SP DL 34B DEL CFD673 LP.

TYPE F5 -175W 240V 17.5 FT ANTIQUE STREETLIGHT FOR PARKING LOTS (ACORN STYLE NARROW) UNION METAL CORPORATION 14'-6" POLE DESIGN #P874-730-B137-Y-1F OR EQ. WITH HADCO #R51-B-B-N-N-1J-NBG-175H-G FIXTURE WITH MULTI-TAP BALLAST, WITH ACRYLIC LENS.

CITY OF TRACY

 <p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhama</i>	STANDARD PLAN No. 140
	CITY ENGINEER RCE 37186	SHEET 5 OF 5
	Res No. 2008-255	DATE:
	Rev:	Rev:
	Rev:	STREET LIGHT NOTES

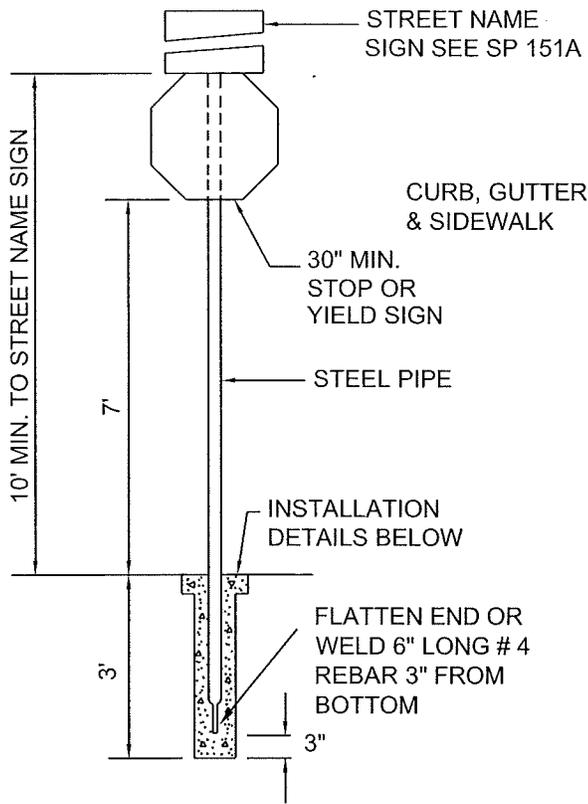


NOTES:

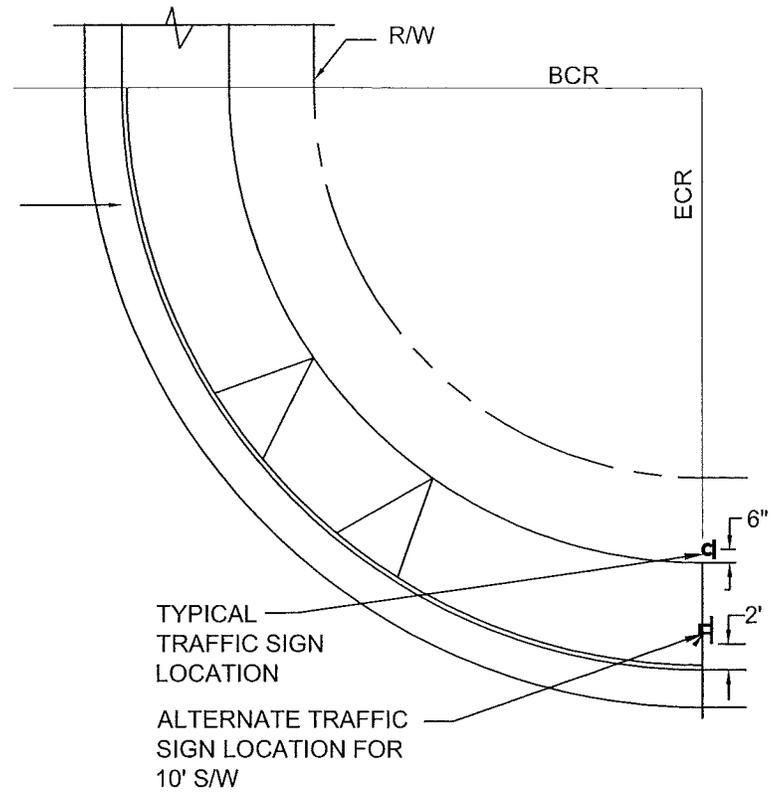
1. PAVEMENT MARKING SHALL CONFORM TO THE CURRENT STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SPECIFICATION.
2. STOP LEGEND, LIMIT LINE, CROSSWALK, AND CENTERLINE SHALL BE PLACED WITH THERMOPLASTIC.
3. AT INTERSECTIONS OF TWO MAJOR STREETS, DOUBLE YELLOW CENTERLINE SHALL EXTEND 100 FEET.
4. " NEIGHBORHOOD WATCH " SIGN SHALL BE INSTALLED ON THE RIGHT SIDE OF ROADWAY NEAR ENTRANCE TO NEIGHBORHOOD WATCH AREA ON STREETLIGHT OR ON 2" DIAMETER STEEL POST IF STREETLIGHT IS NOT AVAILABLE.
5. WHEN CONCRETE IS USED AS A DECORATIVE CROSSWALK, THERMOPLASTIC STRIPING SHALL BE PLACED ON THE ASPHALT CONCRETE IMMEDIATELY ADJACENT TO THE CONCRETE CROSSWALK, NOT ON THE CONCRETE SURFACE.

CITY OF TRACY

	REVIEWED BY: <i>Alhama</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 150
	Res No. 2008-255 DATE:	STOP INTERSECTION
	Rev:	
	Rev:	



POLE DETAIL
N.T.S.

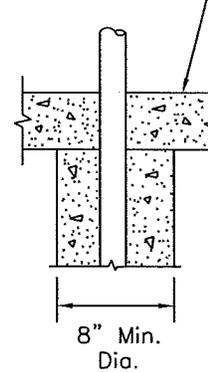


SIGN POST LOCATION
N.T.S.

NOTES:

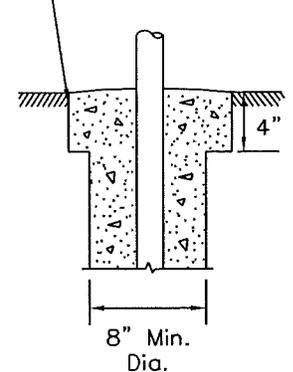
1. CONCRETE SHALL BE CLASS B (2500 PSI), 3/4" MAX. AGGREGATE SIZE WITH 1/2 LB. LAMPBLACK PER YARD.
2. POST SHALL BE 2" STD. GALVANIZED STEEL PIPE AND SHALL BE SET PLUMB.
3. REGULATORY SIGNS SHALL BE ATTACHED TO POST WITH SINGLE BRACKET. CLAMP ON "U" BRACKET WITH HAWKINS M2G-VPB VANDAL PROOF SCREW.
4. SIGNS SHALL BE INSTALLED, AS SHOWN ON THE PLANS.
5. DRILL 3" DIA. HOLE IN CONCRETE IF SIGN INSTALLED AFTER SIDEWALK HAS BEEN CONSTRUCTED.
6. AT T- INTERSECTIONS, SIGNS SHALL BE PLACED AT THE CENTER POINT.
7. ON ALL SIGNS PROVIDE PROTECTIVE OVERLAY FILM 3M SERIES 1160.

MONOLITHIC POUR WITH SIDEWALK



SIDEWALK INSTALLATION
N.T.S.

TOP 12"X12" SHALL BE FORMED AND EDGED



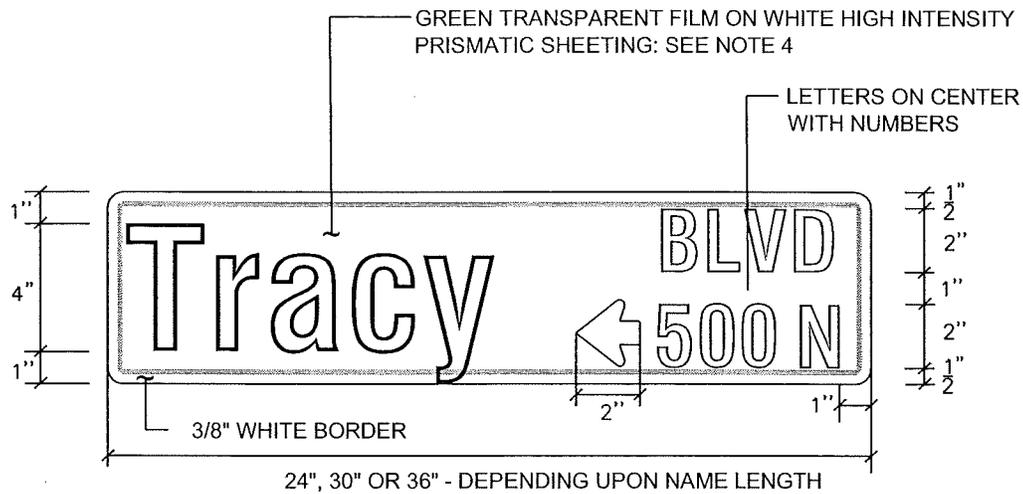
BACK OF WALK INSTALLATION
N.T.S.

CITY OF TRACY



REVIEWED BY: <i>Alhama</i>	STANDARD PLAN No.
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SIGN POST INSTALLATION

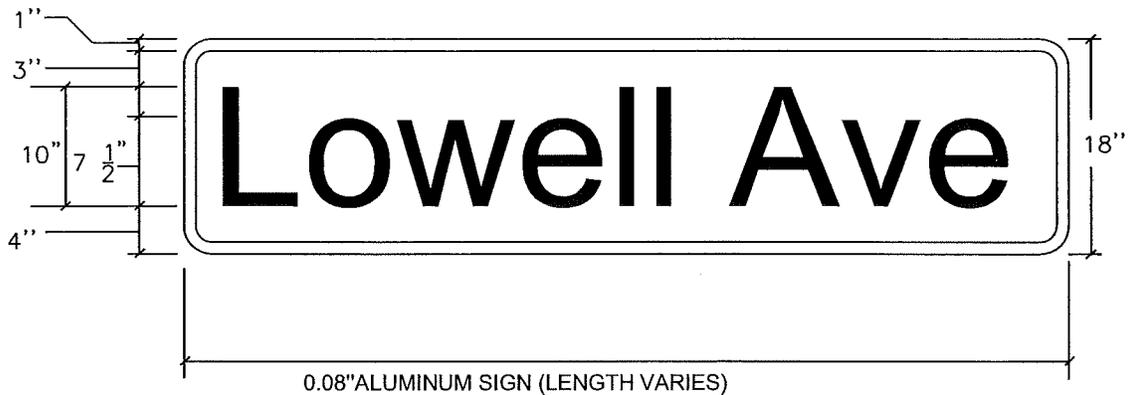
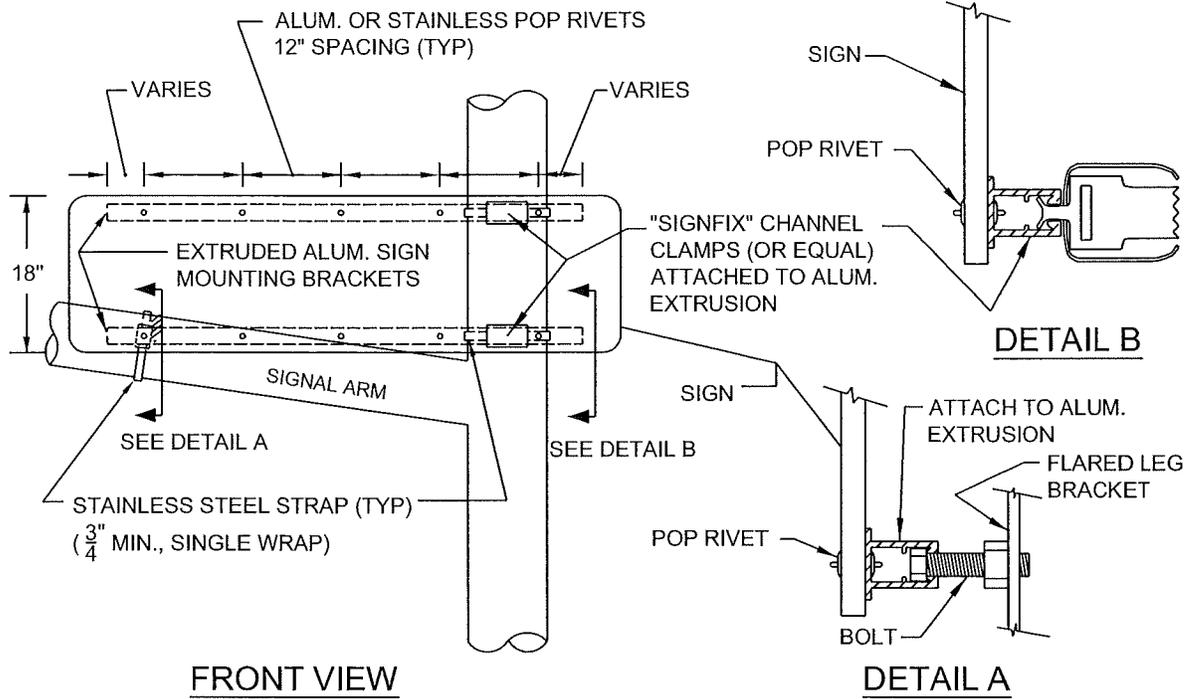


NOTES:

1. STREET NAME SIGNS SHALL BE INSTALLED AT ALL INTERSECTIONS, AND AS SHOWN ON THE PLANS. INSTALL ON ELECTROLIER WHERE AVAILABLE.
2. SIGN LOCATION SHALL BE AS FOLLOWS:
ON RESIDENTIAL STREETS: N.E. OR S.E. CORNER.
ON ARTERIALS: ON BOTH SIDES OF THE STREET.
3. SIGN SHALL HAVE REFLECTIVE GREEN BACKGROUND WITH 4" LETTERS AND 2" BLOCK NUMBERS, IN HIGHWAY "C" FONT. SPACE BETWEEN LETTERS SHALL NOT EXCEED 1/2 IN.
4. 3-M GREEN EC FILM SERIES 1177 OR EQUAL LAID OVER 3-M HIGH INTENSITY PRISMATIC WHITE SHEETING SERIES 3930 OR EQUAL, ON 0.125" THICKNESS ALUMINUM SIGN BLANK, FLAT BLADE (NOT EXTRUDED).
5. STREET NAME SHALL BE ON BOTH SIDES OF THE SIGN. REVERSE ARROW AS NEEDED.
6. POST MOUNTING HARDWARE: CROSSPIECE AND CAP SHALL BE HAWKINS 809F BOLT THRU.

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>		STANDARD PLAN No. 151A
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	STREET NAME SIGNS
	Rev:	Rev:	
Rev:	Rev:		



NOTES:

1. SEE NOTES, SHEET 151C

CITY OF TRACY

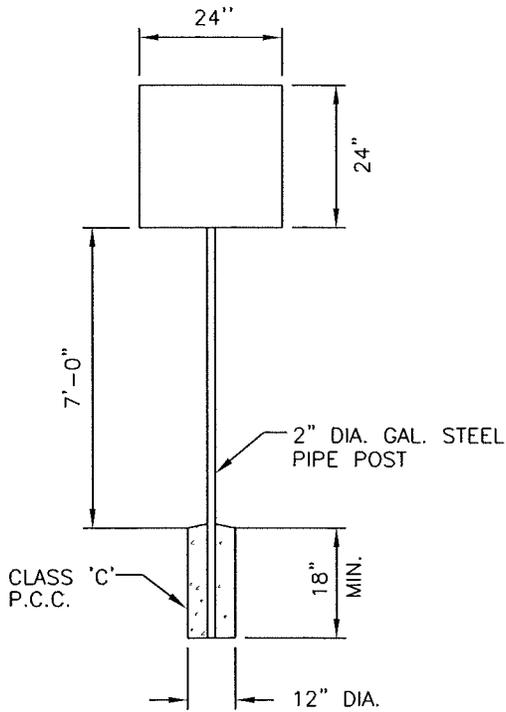
 <p>TRACY</p> <p>Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhama</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 151B	
	Res No. 2008-255	DATE:	OVERHEAD STREET NAME SIGNS
	Rev:	Rev:	
	Rev:	Rev:	

NOTES FOR TRAFFIC-SIGNAL-ARM SIGN MOUNTING:

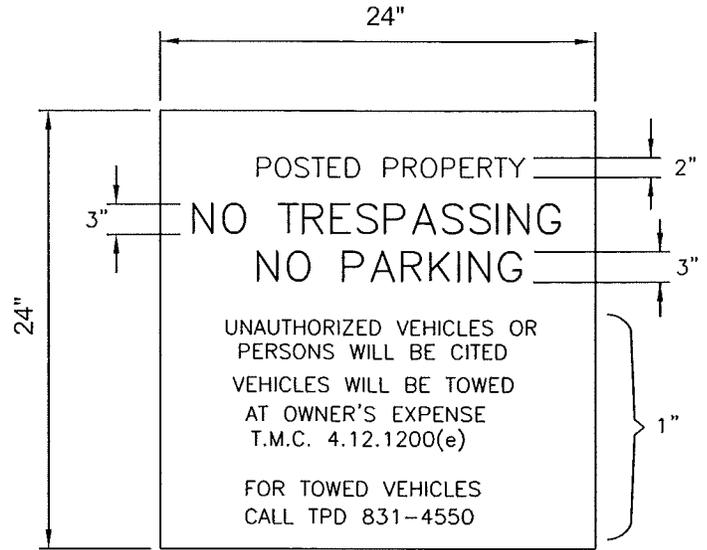
1. ALL MATERIAL FURNISHED SHALL BE RUST RESISTANT. ALL SIGN HARDWARE SHALL BE ALUMINUM AND ANY MOVING PARTS MUST BE MADE OF STAINLESS STEEL TO PREVENT RUSTING.
2. THE SIGN MOUNTING EXTRUDED ALUMINUM MOUNTING BRACKETS SHALL BE EITHER MEDIUM ALUMINUM EXTRUSIONS (SIGNFIX PART NO. HPN-053) OR LARGER ALUMINUM EXTRUSIONS (SIGNFIX PART NO. HPN-055). EXTRUDED ALUMINUM MOUNTING BRACKETS MUST BE BY SIGNFIX OR MUST BE DIRECTLY ADAPTABLE TO UNIVERSAL SIGNFIX CHANNEL CLAMPS E.P. (PART NO. HPN-034EP) OR EQUAL. FLARED LEG MOUNTING BRACKET FOR MOUNTING TO POLE OR MAST ARM SHALL BE HAWKINS PART NO. M2G-FUB OR APPROVED EQUAL. THREADED PORTION OF BRACKET SHALL ACCEPT COURSE THREAD 5/16 INCH ALL-THREAD BOLT.
3. SINGLE STREET NAME SIGN SHALL HAVE NAME AND SUFFIX CENTERED IN SIGN. SIGNS SHALL BE SINGLE FACE AND FABRICATED ON ALUMINUM BLANKS 0.063-INCH THICKNESS. BLANK SHALL BE 18-INCHES IN WIDTH AND VARY IN LENGTH DEPENDING ON THE NUMBER OF LETTERS OF THE STREET (MIN. OF 6-FEET IN LENGTH). SIGN BLANK SHALL HAVE BLUE BACKGROUND USING 3M DIAMOND (CUBE) GRADE REFLECTIVE VINYL SHEETING. UPPER CASE LETTERS SHALL BE 10" AND LOWER CASE LETTERS SHALL BE 7.5". ALL LETTERS SHALL BE HIGHWAY FONT "D". SIGN SHALL HAVE 1" WHITE BORDER COVERING THE ENTIRE EDGE OF SIGN BLANK. CORNERS SHALL BE NEATLY ROUNDED TO A 2.25" RADIUS. WORDS SHALL BE SPACED MINIMUM OF 6" AND NOT TO EXCEED 10" APART AND THERE SHALL BE 3" OF SPACING BETWEEN BORDER AND SIDES OF STREET NAME. LETTERS SHALL BE SPACED TO MAXIMUM OF 1.5".
4. ALL SIGNS SHALL BE APPROVED FOR CONFORMANCE BY THE CITY TRAFFIC ENGINEERING STAFF PRIOR TO INSTALLATION.

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>		STANDARD PLAN No. 151C
	CITY ENGINEER RCE 37186		<p align="center">NOTES FOR TRAFFIC SIGNAL-ARM SIGN MOUNTING</p>
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
	Rev:	Rev:	



POLE DETAIL
N.T.S.



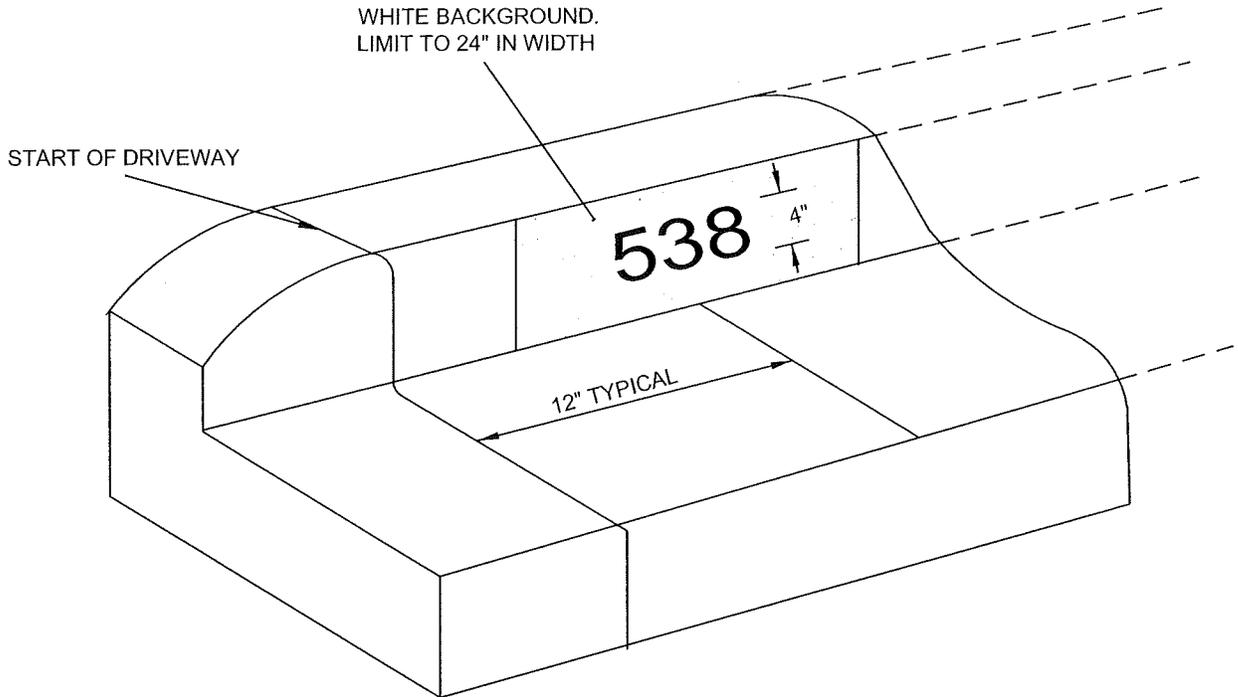
SIGN LETTERING DETAIL
N.T.S.

NOTES:

1. SIGNS SHALL BE MADE ON FLAT ALUMINUM PLATE WITH A MINIMUM THICKNESS OF 0.080", WITH BLACK LETTERS ON A WHITE BACKGROUND.
2. 3" HIGH LETTERS MESSAGE SHALL INDICATE LIMITS OF ENFORCEMENT SUCH AS " NO PARKING ", " NO TRESPASSING OR LOITERING ", " TENANT PARKING ONLY ", ETC.
3. SIGNS SHALL BE INSTALLED BY PROPERTY OWNER, AT EACH PARKING LOT ENTRANCE.
4. PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SIGN.
5. SIGN SHALL BE LOCATED AND ORIENTED SO AS NOT TO CONFLICT WITH PEDESTRIAN TRAFFIC.
6. REF: C.V.C. SEC. 21107.8

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No. 152
	CITY ENGINEER _____ RCE 37186	
	Res No. 2008-255 DATE: _____	POSTED PROPERTY NO PARKING OR LOITERING
	Rev: _____ Rev: _____	
Rev: _____ Rev: _____		



CURB PAINTING STANDARD

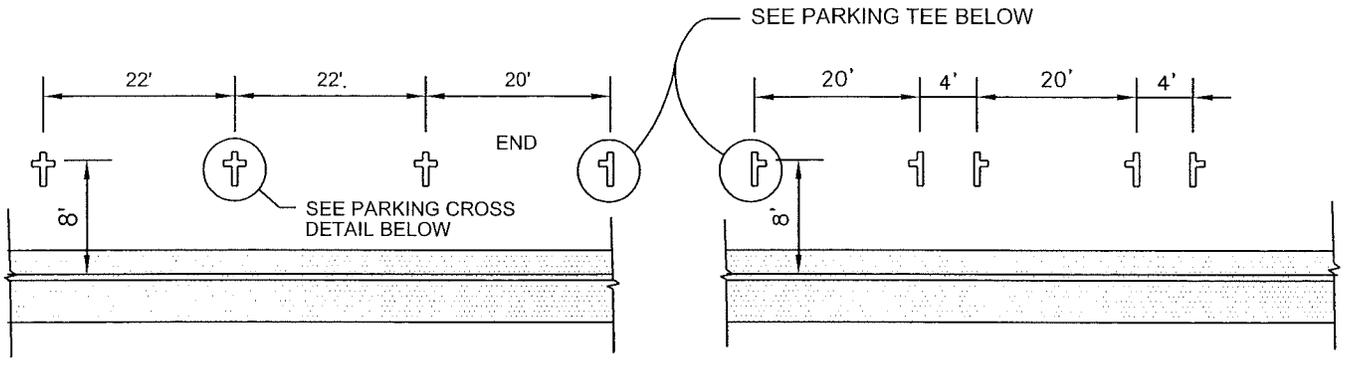
N.T.S.

NOTES:

1. BUILDING NUMBERS MAY BE PAINTED ON CURB SURFACES IN ACCORDANCE WITH CITY COUNCIL POLICY AND THIS STANDARD DRAWING.
2. NUMBERS SHALL BE PAINTED WITH BLACK 4" BLOCK LETTERS HAVING 1/2" STROKE ON A WHITE REFLECTORIZED BACKGROUND.
3. NUMBERS SHALL BE PAINTED WITHIN 2 FT. OF THE DRIVEWAY TO THE PROPERTY.
4. AN APPROVED ENCROACHMENT PERMIT FROM THE OFFICE OF THE CITY ENGINEER SHALL BE OBTAINED BEFORE CURBS MAY BE PAINTED.
5. PAINT MUST BE APPROVED BY THE CITY ENGINEER.
6. PAINTING CONTRACTOR MUST HAVE A VALID BUSINESS LICENSE IN THE CITY OF TRACY.
7. A SPECIFIED FEE SHALL BE CHARGED FOR WORK PERFORMED (NO DONATIONS).
8. APPROVAL IN WRITING OF THE PROPERTY OWNER PRIOR TO PAINTING SHALL BE SUBMITTED TO THE CITY ENGINEER.
9. NUMBER SHALL BE CENTERED WITHIN WHITE BACKGROUND.

CITY OF TRACY

	REVIEWED BY: <i>Alhano</i>	STANDARD PLAN No.	153	
	CITY ENGINEER RCE 37186	CURB NUMBERS		
	Res No. 2008-255			DATE:
	Rev:			Rev:
Rev:	Rev:			

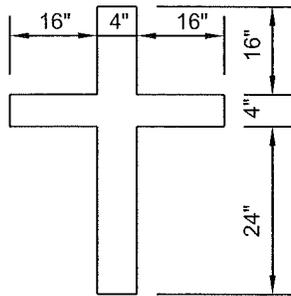


INTERIOR & END

N.T.S.

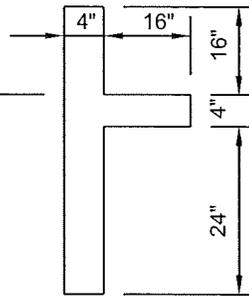
PAIRED PARKING

N.T.S.



PARKING CROSS

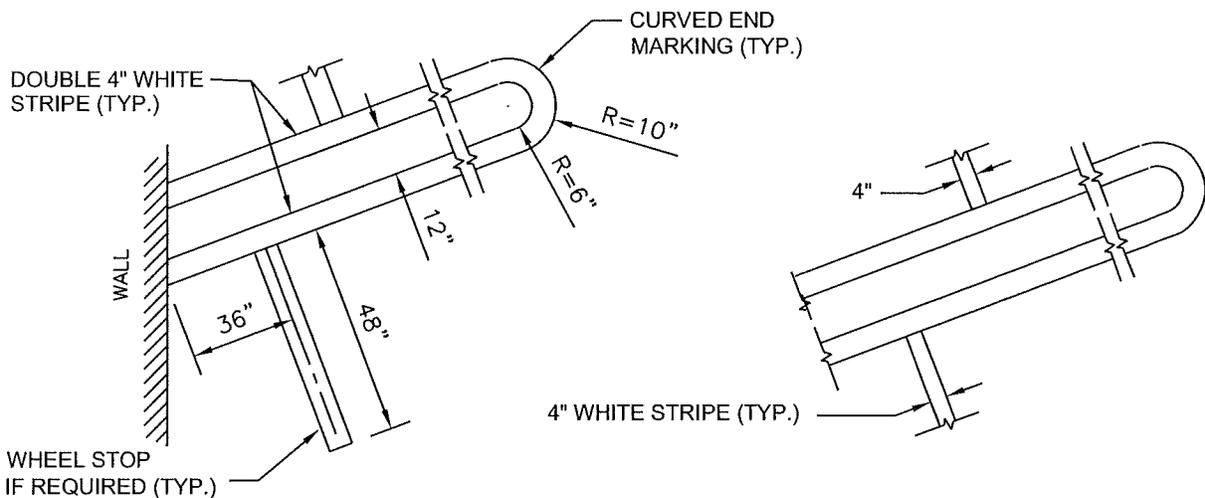
N.T.S.



PARKING TEE

N.T.S.

8'-0"
TO FACE OF CURB
(9' TO WALL)



DETAIL " A "

N.T.S.

DETAIL " B "

N.T.S.

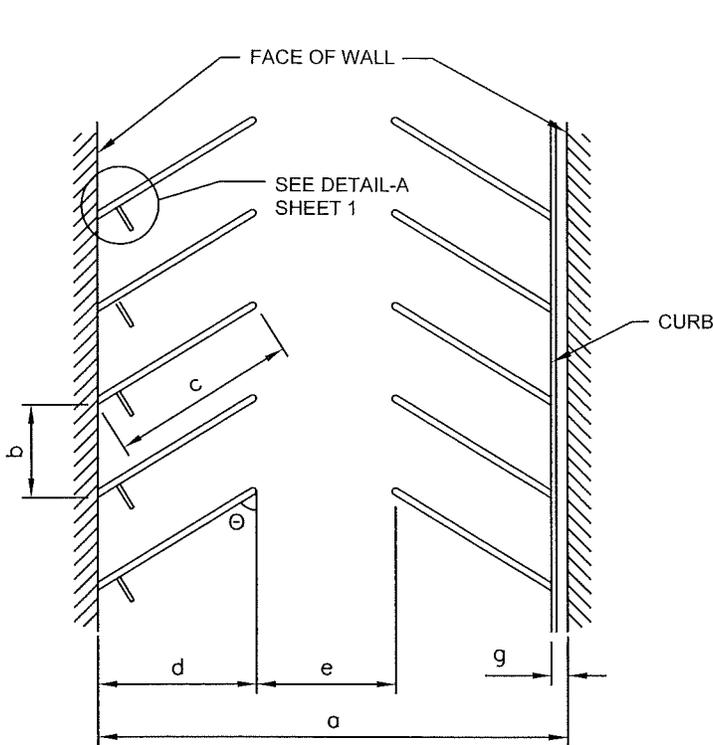
CITY OF TRACY



REVIEWED BY:	<i>Alhams</i>	
CITY ENGINEER	RCE	37186
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

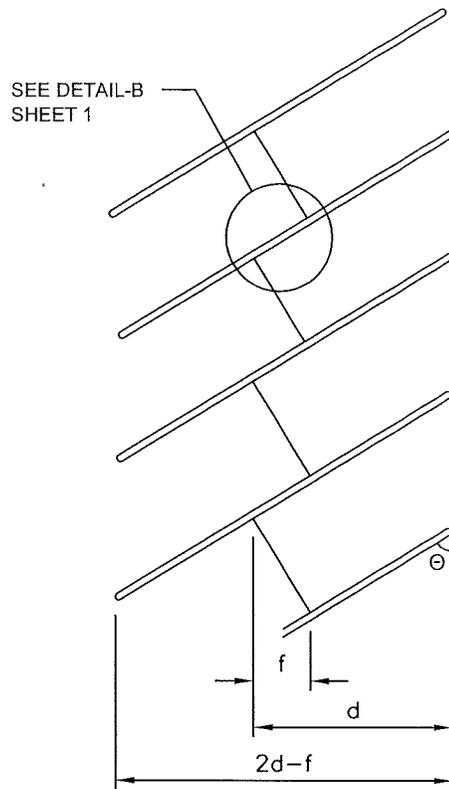
STANDARD PLAN No.	154	SHEET 1 OF 3
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PARKING SPACES



WALL TO WALL MODULE

N.T.S.



INTERLOCKING MODULE

ONLY TO BE USED WITH BUMPER TO BUMPER DESIGN N.T.S.

DESIGN STANDARD

Parking Angle θ	Stall Type	a	b	c	d	e	f	g
90°	Standard	63'	9'	18.5'	18.5'	26'	0	2.5'
	Compact	56'	8'	16'	16'	24'	0	2.5'
75°	Standard	62'	9.3'	20'	19.5'	23'	1'	2.5'
	Compact	55'	8.2'	17.4'	17'	21'	1'	2.5'
60°	Standard	57'	10.4'	22'	19'	19'	3'	2.3'
	Compact	50.4'	9.1'	19.3'	16.7'	17'	3'	2.3'
45°	Standard	48'	12.7'	25'	17.5'	13'	4'	2'
	Compact	44'	11.3'	22.2'	16'	12'	4'	2'

NOTES:

1. PARKING ANGLE θ IS THE ACUTE ANGLE FORMED AT THE INTERSECTION OF THE PARKING SPACE AND THE DRIVE AISLE.
2. SEE ADDITIONAL NOTES ON SHEET 3.

CITY OF TRACY

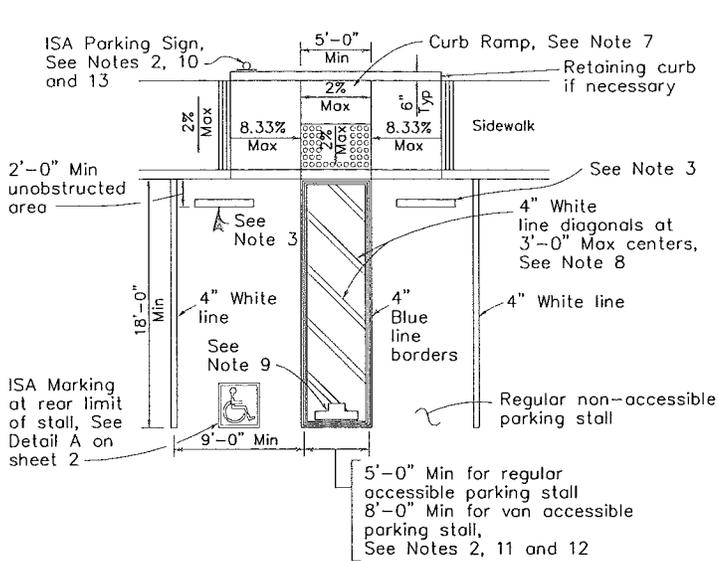
	REVIEWED BY: <i>Blhanso</i>	STANDARD PLAN No. 154	SHEET 2 OF 3
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	PARKING SPACES
	Rev:	Rev:	
Rev:	Rev:		

NOTES:

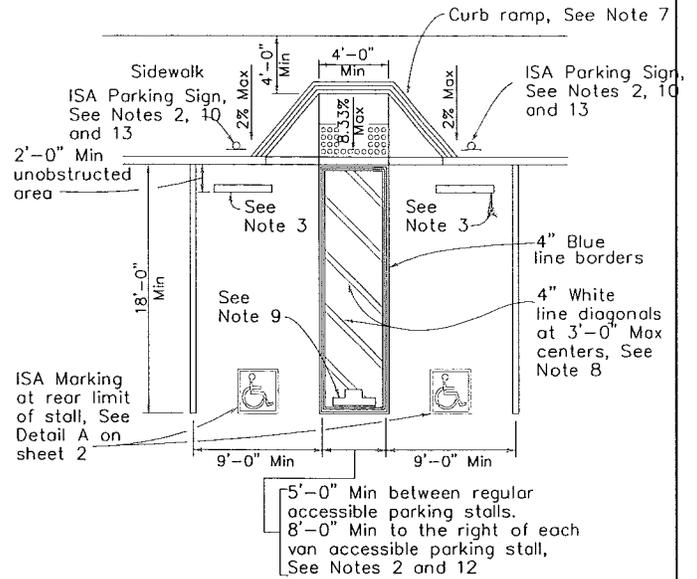
1. ACCESSIBLE PARKING SPACES SHALL COMPLY WITH TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS AND CITY STANDARDS PLANS.
2. IMPROVEMENTS REQUIRED:
 - A) THE SURFACE SHALL BE PAVED WITH ASPHALTIC CONCRETE OR PORTLAND CEMENT CONCRETE DESIGN WITH A MINIMUM T.I. OF 4 AND AN R-VALUE OF 5. THE STRUCTURAL SECTION SHALL BE DESIGNED BASED ON ACTUAL T.I. AND R-VALUE.
 - B) STRIPING OF PARKING SPACES, AISLES OR DRIVEWAYS AND THE DESIGN AND PLACEMENT OF DIRECTIONAL SIGNS SHALL BE PROVIDED AS NECESSARY TO ENSURE SAFE AND EFFICIENT OPERATION AND SHALL COMPLY WITH APPLICABLE CITY STANDARDS.
 - C) PARKING FACILITIES TO SERVE REQUIRED USES DURING THE HOURS OF DARKNESS SHALL BE ILLUMINATED TO PROVIDE A MINIMUM OF 1 FT. CANDLE.
3. ON-SITE REQUIREMENT - ALL OFF-STREET PARKING SPACES, INCLUDING GARAGES, CARPORTS OR DRIVEWAYS SHALL BE AT LEAST 10' WIDE BY 20' LONG. PARKING SPACES ADJACENT TO THE RIGHT-OF-WAY SHALL NOT BLOCK SIDEWALKS. WHERE CARPORTS OR GARAGES CONTAIN 3 OR MORE SPACES, HOWEVER, THE WIDTH REQUIREMENT MAY BE REDUCED TO 9' FOR EACH SPACE.

CITY OF TRACY

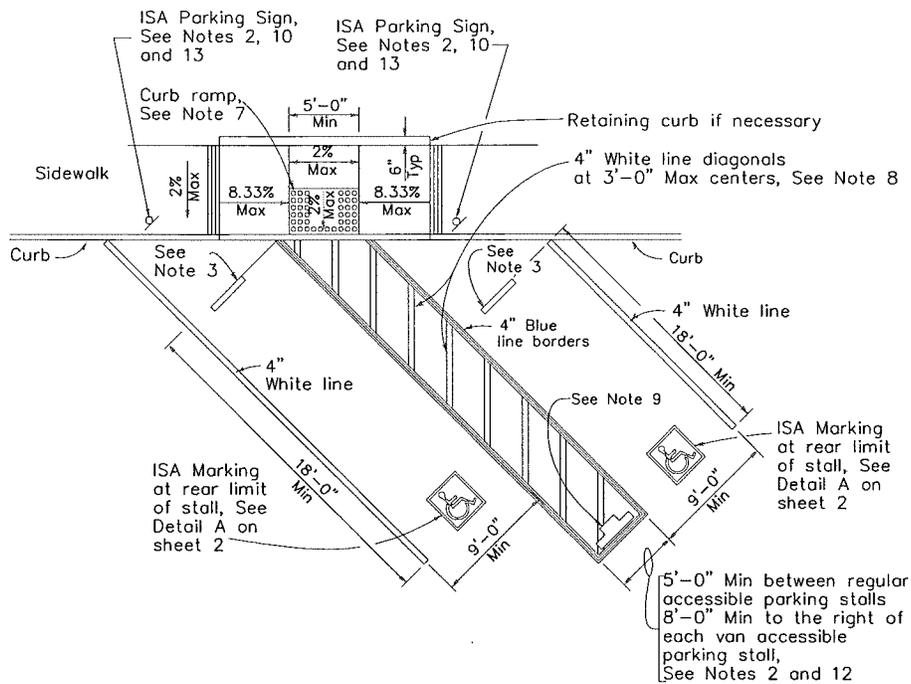
	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No. 154	SHEET 3 OF 3
	CITY ENGINEER _____ RCE 37186		
	Res No. 2008-255	DATE:	PARKING SPACES
	Rev:	Rev:	
Rev:	Rev:		



SINGLE PARKING STALL



DOUBLE PARKING STALL



DIAGONAL DOUBLE PARKING STALLS

CITY OF TRACY



REVIEWED BY: <i>Alhama</i>	CITY ENGINEER	RCE	37186
Res No. 2008-255	DATE:		
Rev:	Rev:		
Rev:	Rev:		

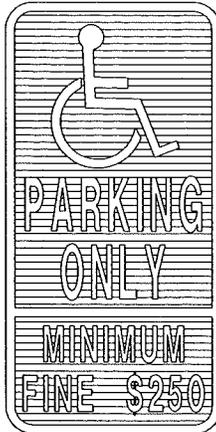
STANDARD PLAN No. **156** SHEET 1 OF 3

ACCESSIBLE PARKING OFF-STREET STALLS

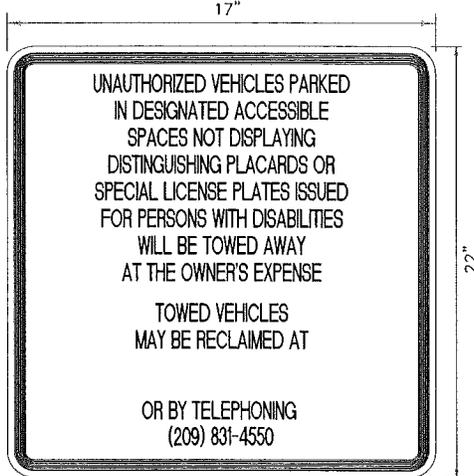
PARKING STALL LEGENDS



SIGN R99 (CA)



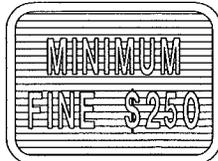
SIGN R99C (CA)
See Note 6



SIGN R100B (CA)
See Note 10



SIGN R7-8b
See Notes 2 and 6



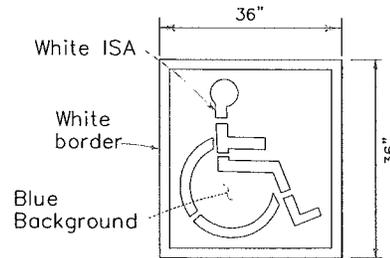
PLAQUE R99B (CA)

SIGN R99 (CA) with PLAQUE R99B (CA)
See Note 6

PARKING SIGNS

NO
PARKING

NO PARKING
See Note 9



ISA MARKING
See Revised Std Plan RSP A24C
DETAIL A

PARKING LEGENDS

CITY OF TRACY

 <small>Think Inside the Triangle™</small>	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 156	SHEET 2 OF 3	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	ACCESSIBLE PARKING SIGNS & LEGENDS	
	Rev:	Rev:		
Rev:	Rev:			

NOTES:

1. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. Parking spaces shall be so located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.
2. One in every eight accessible off-street parking stalls, but not less than one, shall be served by an accessible aisle of 8'-0" minimum width and shall be signed van accessible. The R7-8b sign shall be mounted below the R99B (CA) plaque or the R99C (CA) sign. See sheet 2
3. In each parking stall, a curb or bumper shall be provided and located to prevent encroachment of vehicles over the required width of walkways. Parking stalls shall be so located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.
4. Surface slopes of accessible off-street parking stalls and accessibility aisles shall be the minimum possible and shall not exceed 2 percent in any direction.
5. Table A shall be used to determine the required number of accessible parking stalls in each parking lot or garage.
6. Where Plaque R99B (CA), Sign R99C (CA) or Sign R7-8b are installed, the bottom of the sign or plaque panel shall be a minimum of 7'-0" above the surrounding surface.
7. Curb ramps shall conform to the details shown on City Standard Plan 130.
8. Blue paint, instead of white shall be used for marking accessibility aisle diagonals in areas such as concrete where white markings are not as visible.
9. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high and located so that it is visible to traffic enforcement officials at rear of aisle.
10. A R100B (CA) sign with 1" lettering shall be posted in a conspicuous place at each entrance to off-street parking facilities or immediately adjacent to and visible from each stall. The sign shall include the telephone number of the local traffic law enforcement agency.
11. Where a single (non-van) accessible parking space is provided, the loading and unloading access aisle shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
12. Where a van accessible parking space is provided, the loading and unloading access aisle shall be 8'-0" wide minimum, and shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
13. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA).
14. Accessible on-street parking spaces shall not be smaller in length or width than that specified for other parking spaces, but not less than 20'-0" in length and not less than 8'-0" in width.
15. There shall be no obstructions on the sidewalk adjacent to and for the full length of the parking space, except for the ISA parking sign shown.

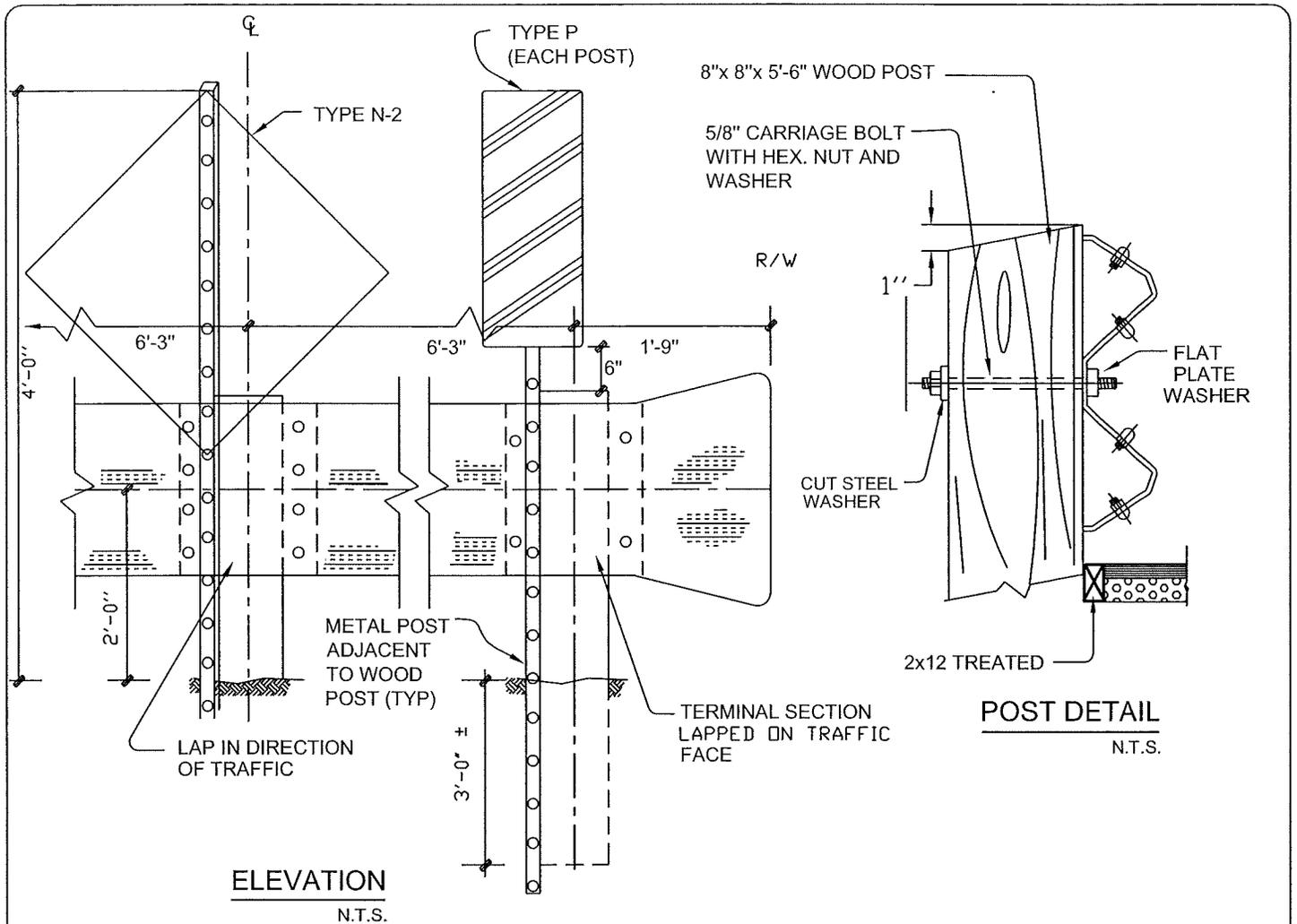
TABLE A

Total Number of Parking Spaces or Stalls	Minimum Number of Disabled Accessible Parking Spaces or Stalls
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 percent of total
Greater than 1000	20 plus 1 for each 100 or fraction thereof over 1001

ISA = International Symbol of Accessibility

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No. 156	SHEET 3 OF 3	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	ACCESSIBLE PARKING NOTES	
	Rev:	Rev:		
Rev:	Rev:			

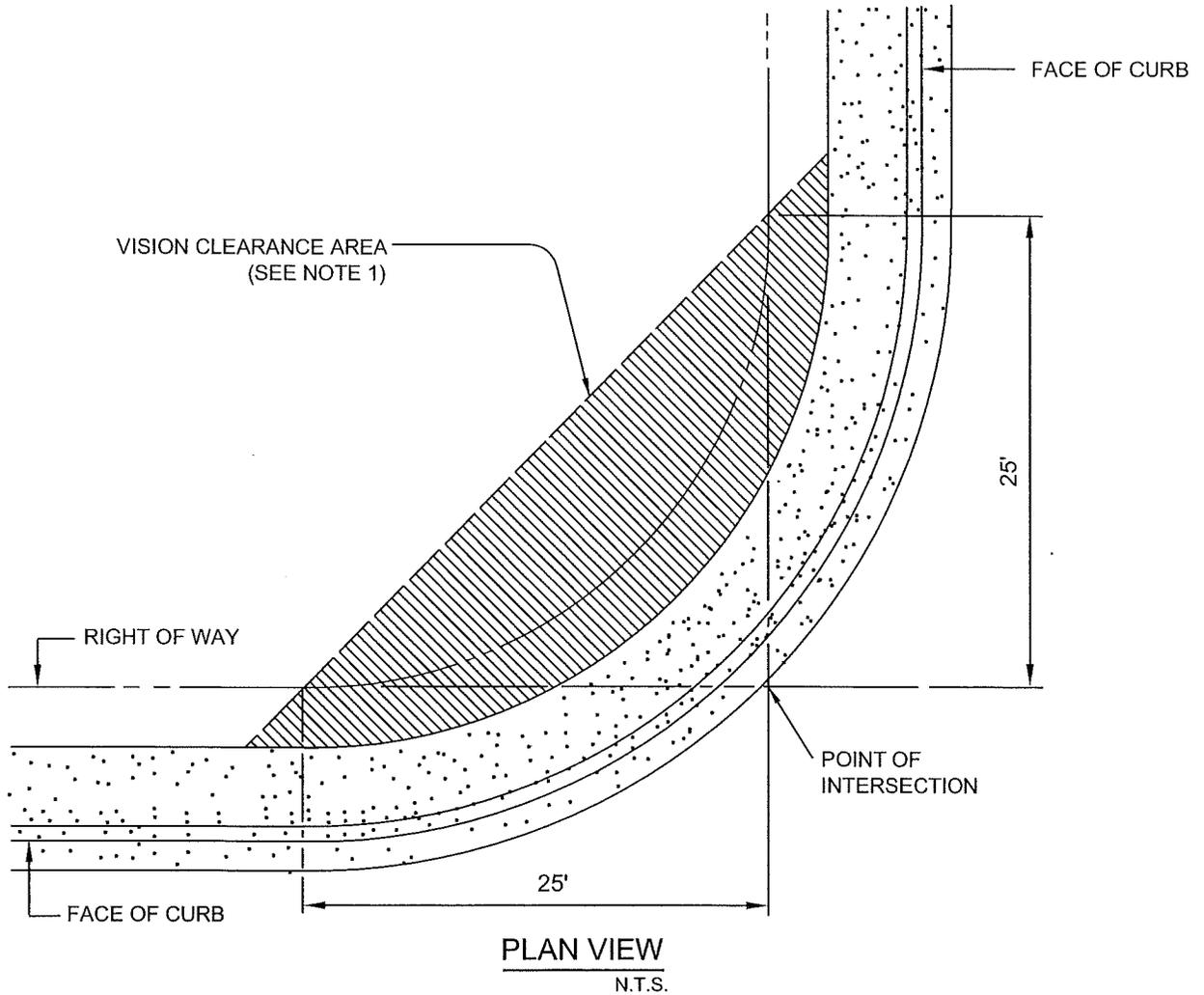


NOTES:

1. METAL BEAM GUARD RAILING SHALL BE STANDARD CALTRANS W-BEAM RAIL ELEMENT A-77B.
2. POSTS SHALL BE 8" x 8" x 5'- 6" DOUGLAS FIR PRESSURE TREATED IN CONFORMANCE WITH THE ABOVE SPECIFICATION.
3. THE SPACE AROUND POSTS SHALL BE BACKFILLED WITH NATIVE MATERIAL PLACED IN 4" LAYERS AND THOROUGHLY COMPACTED.
4. FOR DEAD-END BARRICADE INSTALL ONE TYPE "N-2" (OM4-3) MARKERS IN CENTER OF RIGHT OF WAY.
5. FOR GUARD RAIL INSTALL ONE TYPE "N-1" (OM1-3) SIGN ON FIRST POST NEAREST TRAVELED WAY
6. INSTALL ONE TYPE "P" (OMP3) OBJECT MARKERS FACING ON COMING TRAFFIC AT EACH POST PER CALTRANS STANDARD PLAN A-73B.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 160	
	Res No. 2008-255	DATE:	GUARD RAIL & BARRICADE
	Rev:	Rev:	
	Rev:	Rev:	



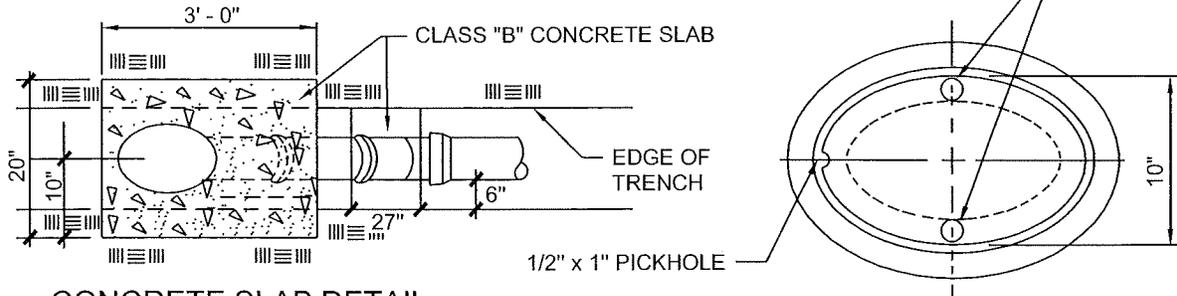
NOTES:

1. VISION CLEARANCE AREA IS THE AREA IN WHICH NO STRUCTURE OR VEGETATION IS TO BE HIGHER THAN 18" ABOVE TOP OF CURB EXCEPT TREES HAVING NO LIMB OR VEGETATION LESS THAN 8' ABOVE THE TOP OF CURB AS REQUIRED BY ORDINANCE CODE, SECTIONS 10.08.3230 AND 10.08.3250(4)(C).
2. NO FENCE SHALL BE CONSTRUCTED WITHIN THE PUBLIC RIGHT-OF-WAY.
3. FOR STOP CONTROLLED INTERSECTION, SEE REQUIRED SIGHT DISTANCE CLEARANCE REQUIREMENTS AS SHOWN ON STANDARD PLAN 175

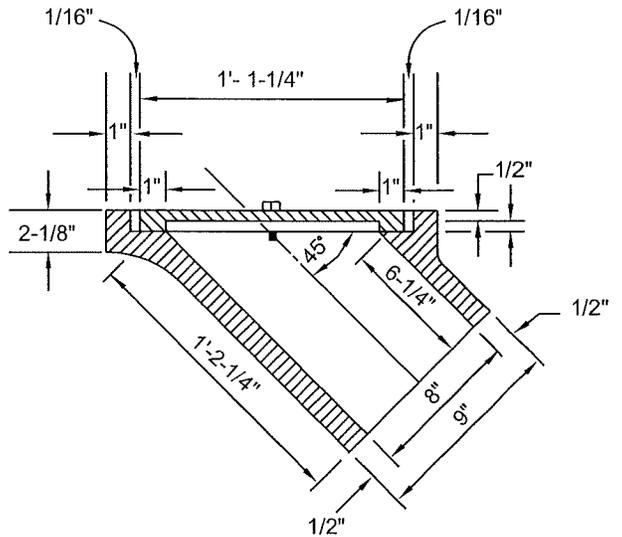
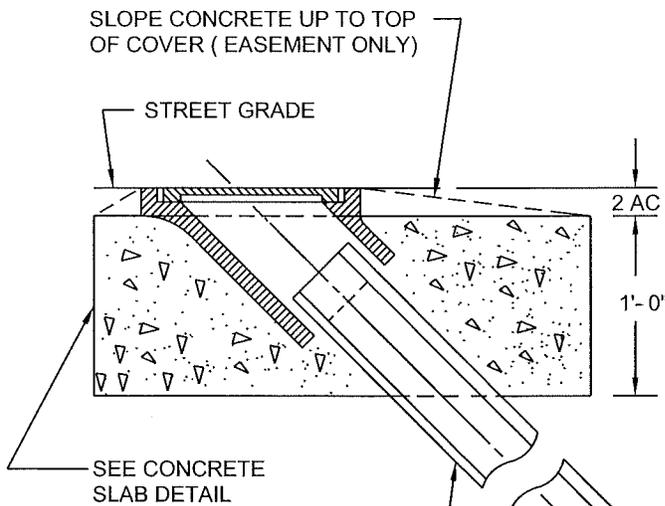
CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>		STANDARD PLAN No. 174
	CITY ENGINEER RCE 37186		CORNER VISION CLEARANCE AREA
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
Rev:	Rev:		

5/8" DIA. x 1-1/2" LONG COURSE THREAD BRASS
HEX HEAD BOLT TO BE INSTALLED WHEN RISER
IS PLACED IN EASEMENT.

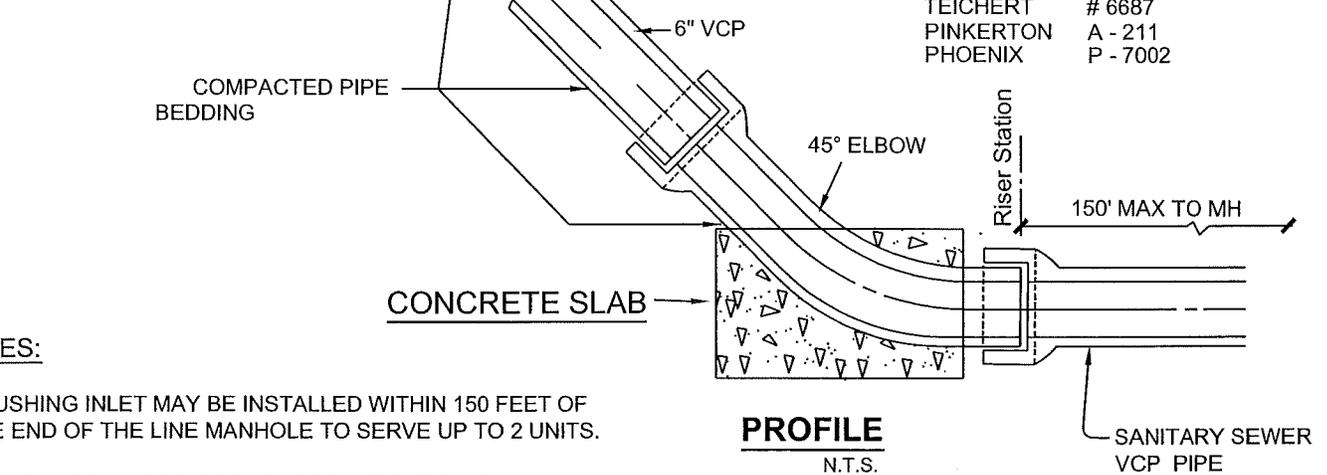


CONCRETE SLAB DETAIL
N.T.S.



CAST IRON FRAME & COVER

TEICHERT # 6687
PINKERTON A - 211
PHOENIX P - 7002



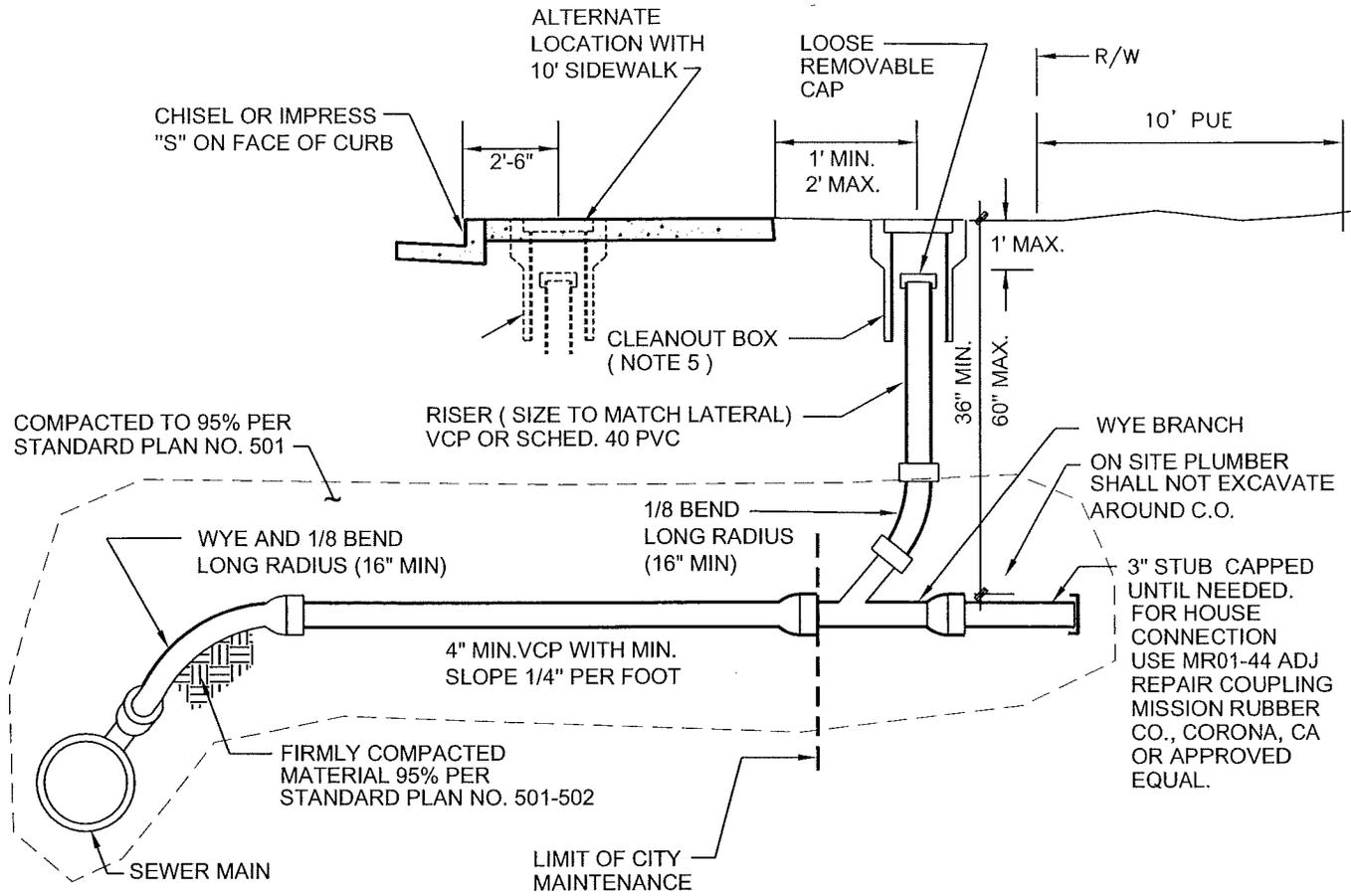
PROFILE
N.T.S.

NOTES:

1. FLUSHING INLET MAY BE INSTALLED WITHIN 150 FEET OF THE END OF THE LINE MANHOLE TO SERVE UP TO 2 UNITS.
2. JOINTS ARE NOT TO BE ENCASED IN CONCRETE.

CITY OF TRACY

	REVIEWED BY: <i>Alhanna</i>	STANDARD PLAN No.	202
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	FLUSHING INLET
	Rev:	Rev:	
Rev:	Rev:		



PROFILE
N.T.S.

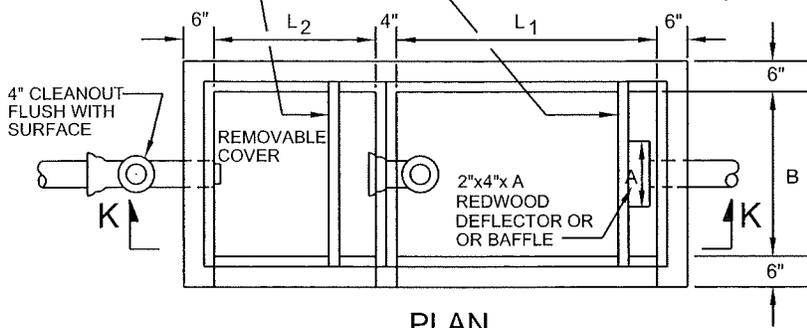
NOTES:

1. NO CLEANOUTS SHALL BE LOCATED IN DRIVEWAYS, UNLESS APPROVED BY THE CITY ENGINEER.
2. IF THE SIDEWALK IS SEPARATE FROM THE CURB, CLEANOUT RISER SHALL BE INSTALLED IN THE APPROXIMATE CENTER OF THE PLANTING STRIP.
3. HOUSE CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE BUILDING INSPECTOR.
4. SEWER LATERAL SHALL BE CONSTRUCTED WITH A PERPENDICULAR ALIGNMENT FROM THE MAIN TO THE PROPERTY LINE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. CLEANOUT BOX SHALL BE CHRISTY F8, OR APPROVED EQUAL, WITH CAST IRON COVER MARKED "C.O."
6. PIPE SLOPE MAY BE INCREASED TO ACCOMMODATE DEEP SEWERS AND PROVIDE MAXIMUM 60" COVER AT RIGHT OF WAY.
7. SEWER LATERAL SHALL BE 4" MIN. EXTRA STRENGTH VCP WITH COMPRESSION JOINTS.
8. PROPERTY OWNER SHALL BE RESPONSIBLE FOR REPAIR AND MAINTENANCE OF THE LATERAL CLEANOUT IN GOOD CONDITION TO ALLOW ACCESS BY CITY PUBLIC WORKS MAINTENANCE.
9. PRIOR TO ACCEPTANCE, LATERAL SHALL BE VIDEO INSPECTED BY THE CITY. INSPECTION REQUEST REQUIRES 48 HOUR NOTICE.
10. NO REPAIR COUPLINGS SHALL BE USED WITHIN R/W DURING NEW CONSTRUCTION, UNLESS APPROVED BY THE CITY ENGINEER.
11. ON SITE PLUMBER SHALL NOT EXCAVATE AROUND THE CLEANOUT.
12. USED EXISTING SERVICES SHALL BE ABANDONED AT THE RIGHT OF WAY BY POTHOLING AND INSTALLING A WATERTIGHT PLUG OR CAP AT THE END OF THE LATERAL AND SURROUNDING THE SEAL WITH A 50 # BAG OF CONCRETE MIX.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>		STANDARD PLAN No. 203
	CITY ENGINEER RCE 37186		SEWER LATERAL
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
	Rev:	Rev:	

2" x 18" REDWOOD
BAFFLE WEDGE TO
PREVENT FLOATING

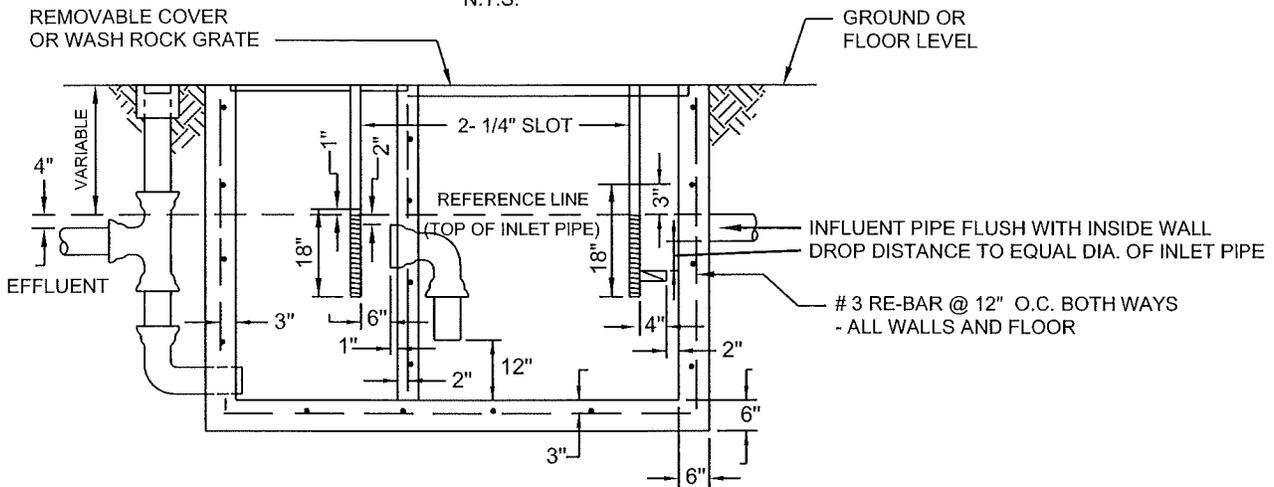


PLAN

N.T.S.

Fixture Units=G.P.M.	A	B	D	L1	L2
0-9 0-67 G.P.M.	6"	24	30	36	24
10-15 67-112 G.P.M.	9"	30	30	48	30
16-22 112-165 G.P.M.	12"	36	36	60	36
Over 22 See note 2					

TOTAL RATED DISCHARGE CAPACITY OF ALL
FIXTURES, EQUIPMENT OR APPLIANCES
DISCHARGING INTO INTERCEPTOR IN
ACCORDANCE WITH CHAPTER 4 - UNIFORM
PLUMBING CODE OR ACTUAL KNOWN FLOW RATE.



SECTION K-K

N.T.S.

NOTES:

1. ALL PIPE AND FITTINGS WITHIN WASTE INTERCEPTOR TO BE CAST IRON, B & B OR B & S, SHORT BODY AND SAME SIZE AS INLET PIPE.
2. REMOVABLE COVER DESIGN SHALL BE DICTATED BY STRENGTH AND LOCATION REQUIREMENTS AS DETERMINED BY THE INSTALLER, BUT SHALL BE OF SUCH A DESIGN TO PROVIDE CONVENIENT ACCESS TO EACH ENTIRE COMPARTMENT FOR CLEANING. THE COVER MAY BE SECTIONAL, BUT SHALL BE OF SOLID DESIGN, ESSENTIALLY WATERPROOF, INSTALLED AT OR NEAR GROUND OR FLOOR LEVEL AND KEPT CLEAR OF ALL OBSTRUCTIONS SO AS TO BE READILY ACCESSIBLE FOR CLEANING AND INSPECTION.
3. THE SIZE OF INTERCEPTOR REQUIRED FOR WASTE FLOWS EXCEEDING 22 FIXTURE UNITS (165 GPM) SHALL BE INDIVIDUALLY DETERMINED.
4. INTERCEPTORS INSTALLED AS OIL SEPARATORS SHALL HAVE FLOW INTRODUCED THROUGH THE INFLUENT PIPE AS SHOWN; NOT THROUGH THE WASH ROCK GRATE, ETC.
5. 1/4" STEEL PLATE BAFFLES MAY BE USED IN PLACE OF REDWOOD BAFFLES.

CITY OF TRACY

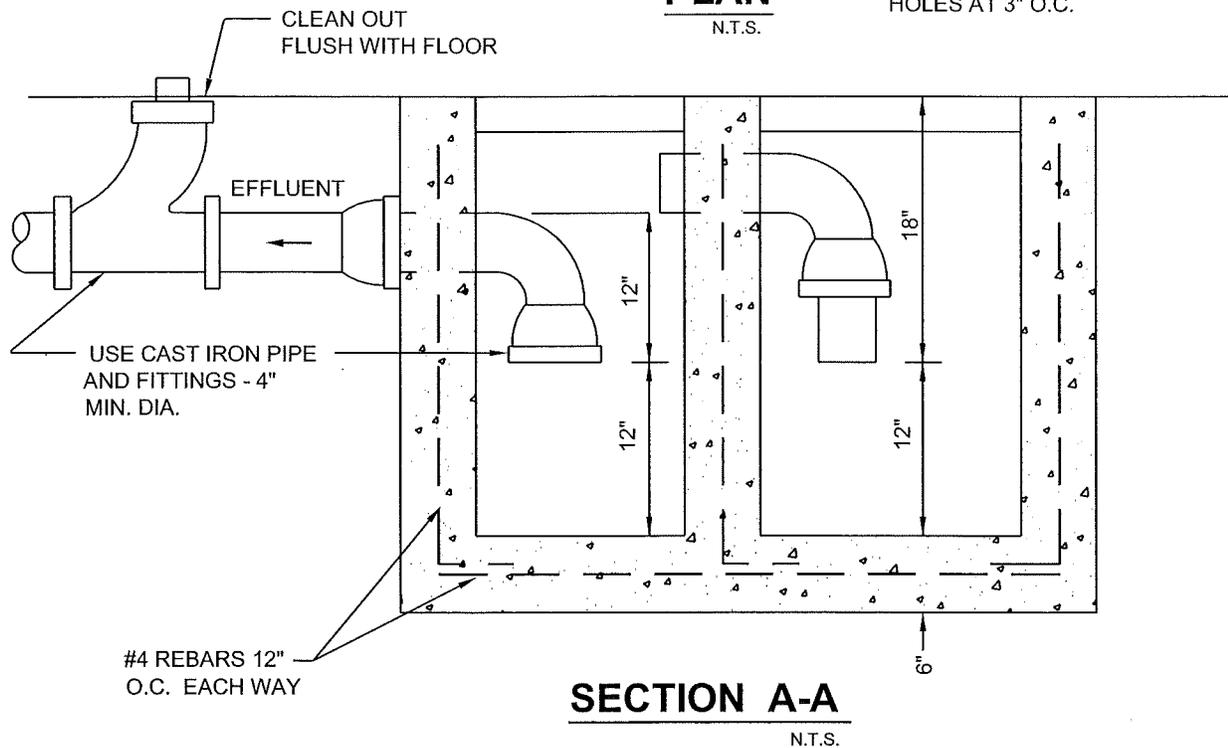
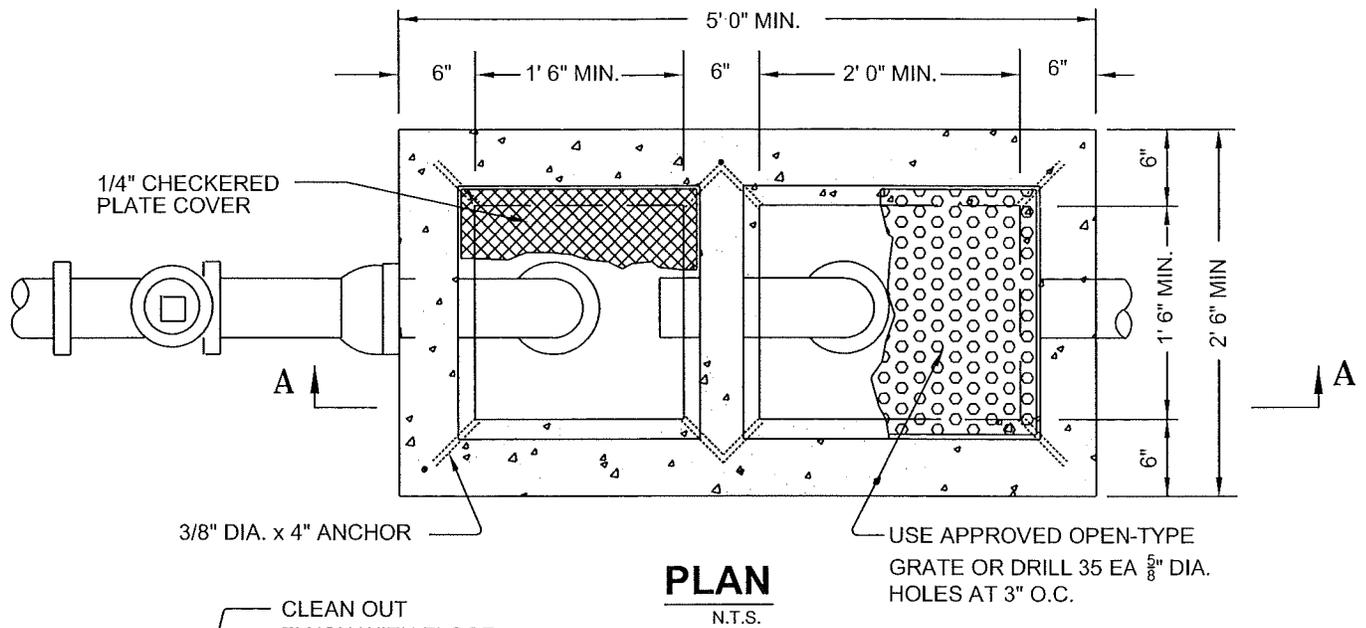


REVIEWED BY:	<i>Alhams</i>	
CITY ENGINEER	RCE	37186
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD
PLAN
No.

204

**WASTE
INTERCEPTOR**

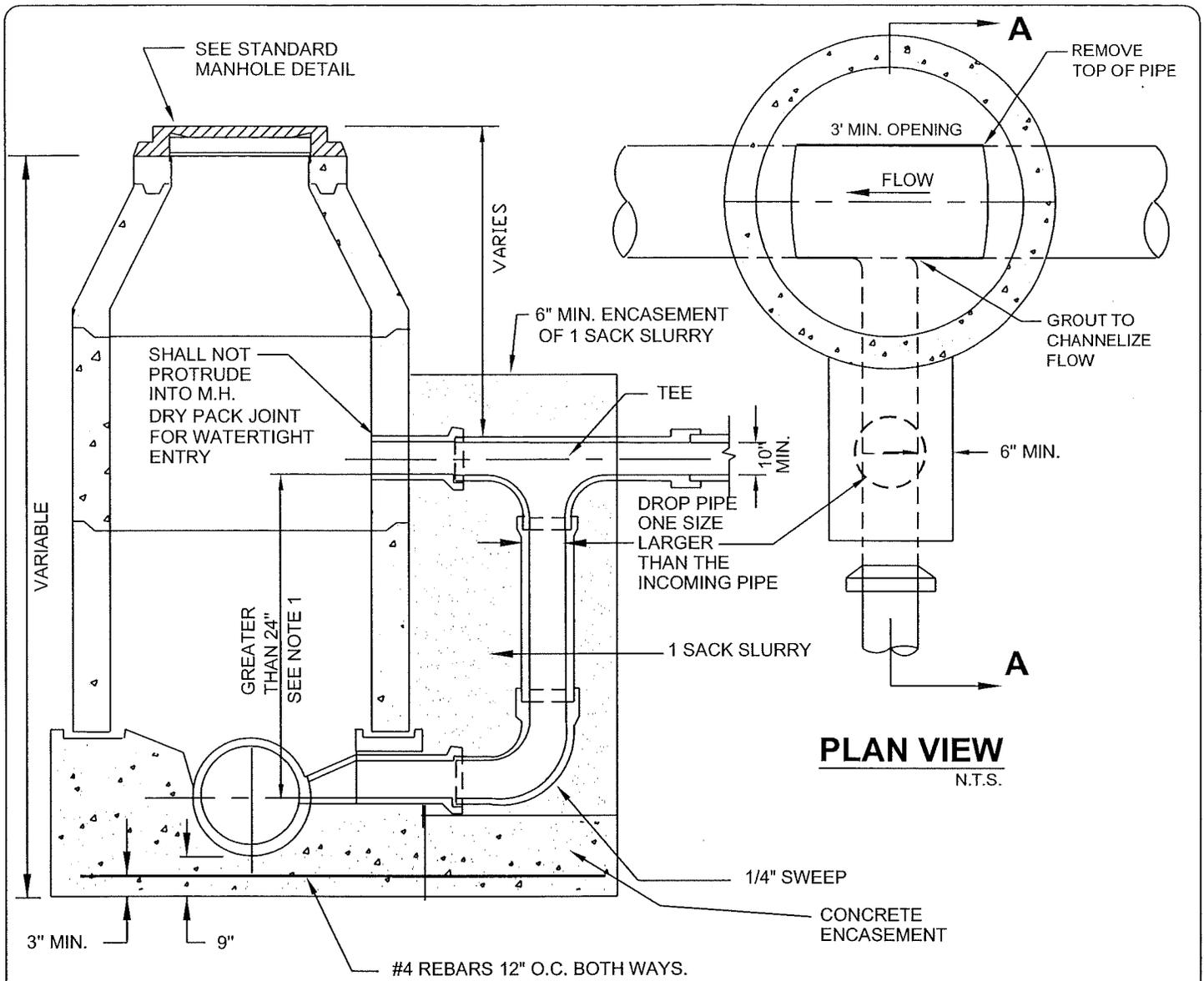


NOTES:

1. ALL EXPOSED STEEL SHALL BE GALVANIZED AFTER FABRICATION.
2. ALTERNATE TRAPS MAY BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No.	205
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	GREASE TRAP
	Rev:	Rev:	
Rev:	Rev:		



SECTION A-A

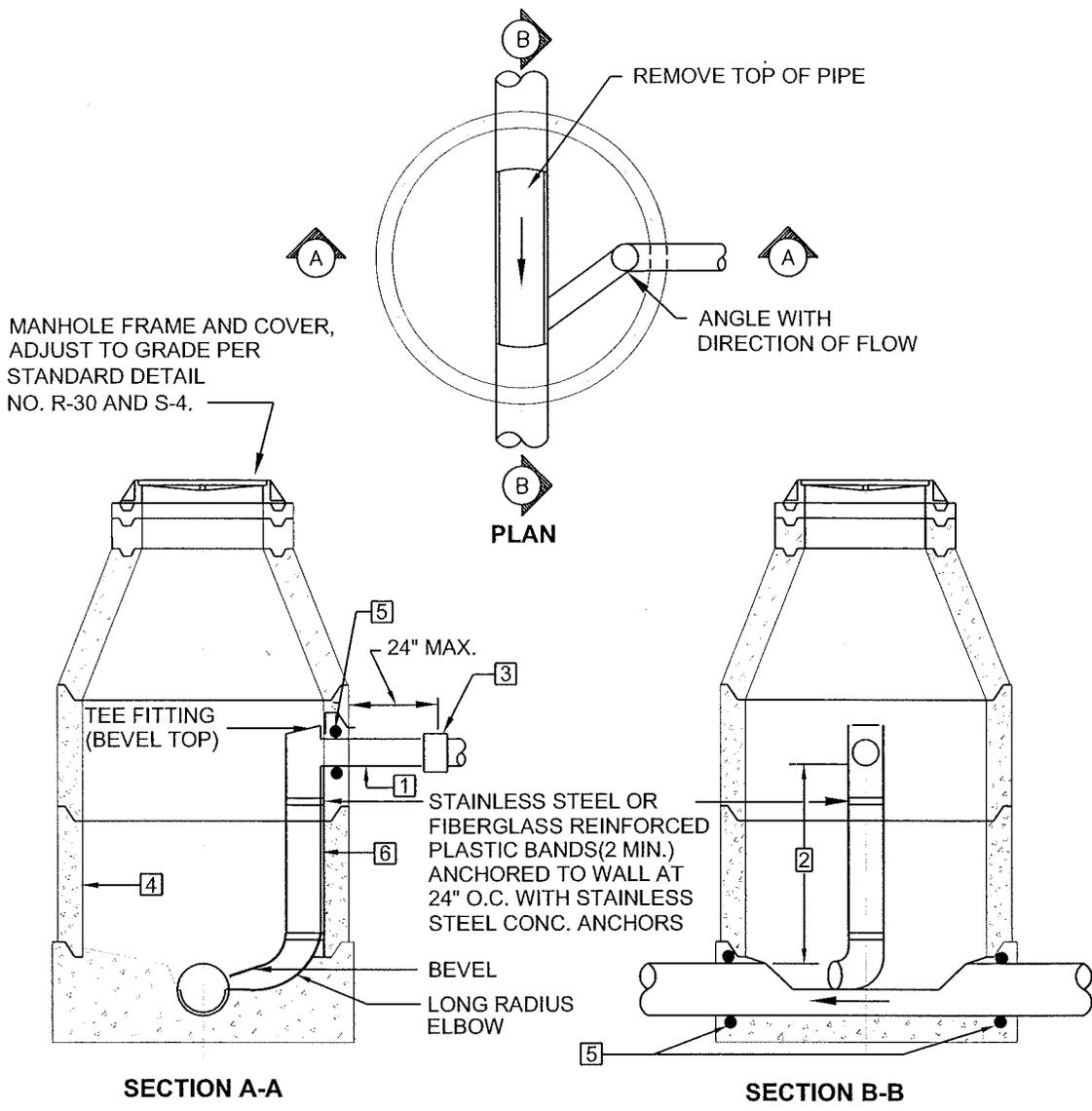
N.T.S.

NOTES:

1. THIS TYPE OF MANHOLE SHALL BE USED WHEN THE INCOMING PIPE IS 10" OR GREATER AND THE DIFFERENCES IN INVERT ELEVATIONS EXCEEDS 24". FOR FEEDER PIPES 8" OR LESS, SEE SD 206A.
2. MANHOLE BASE SHALL HAVE MINIMUM THICKNESS AS SHOWN ON STANDARD PLAN FOR MANHOLE.
3. PIPE SHALL HAVE AT LEAST ONE JOINT WITHIN 3 FEET FROM MANHOLE.
4. DROP PIPE TO BE ONE SIZE LARGER THAN THE INCOMING PIPE.
5. ENCASING CONCRETE SHALL BE CLASS "B", 2500 PSI AT 28 DAYS; 3/4' MAXIMUM AGGREGATE SIZE.
6. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH SD 301.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 206
	CITY ENGINEER RCE 37186	DROP MANHOLE
	Res No. 2008-255 DATE:	
	Rev: Rev:	
Rev: Rev:		

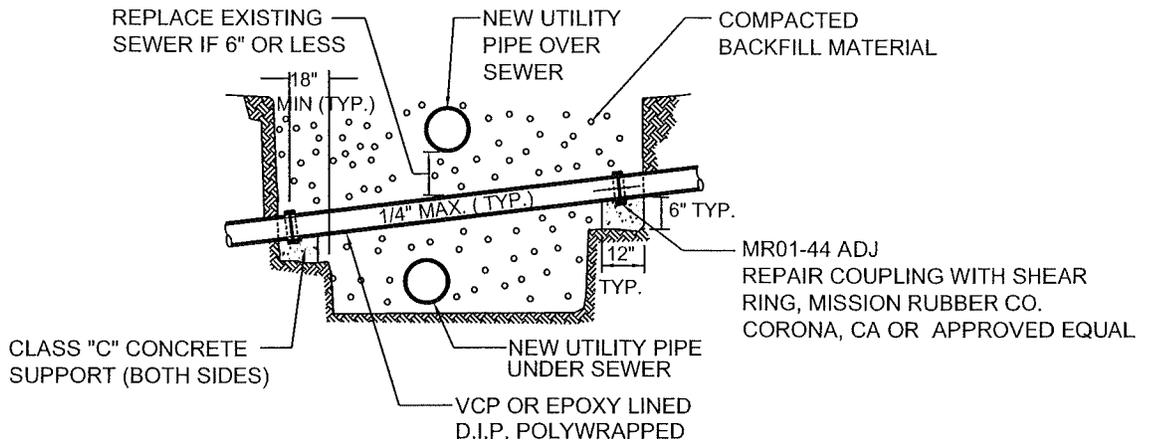


NOTES:

- ① 8" DIAMETER MAX. SIZE OF FEEDER PIPE. FOR PIPES 10" OR GREATER, SEE SD 206.
- ② THIS TYPE OF MANHOLE SHALL BE USED WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE TOP OF OUTLET PIPE AND THE INVERT OF THE FEEDER PIPE EXCEEDS 24".
- ③ BELL & SPIGOT OR PVC REPAIR COUPLING ONLY. SOLVENT WELDED JOINT NOT PERMITTED.
- ④ INTERIOR COATING WHERE REQUIRED ON IMPROVEMENT PLANS.
- ⑤ RUBBER RING WATERSTOP OR MANHOLE ADAPTER REQUIRED FOR PVC PIPE INSTALLATIONS
- ⑥ DROP PIPE TO BE ONE SIZE LARGER THAN INCOMING PIPE.

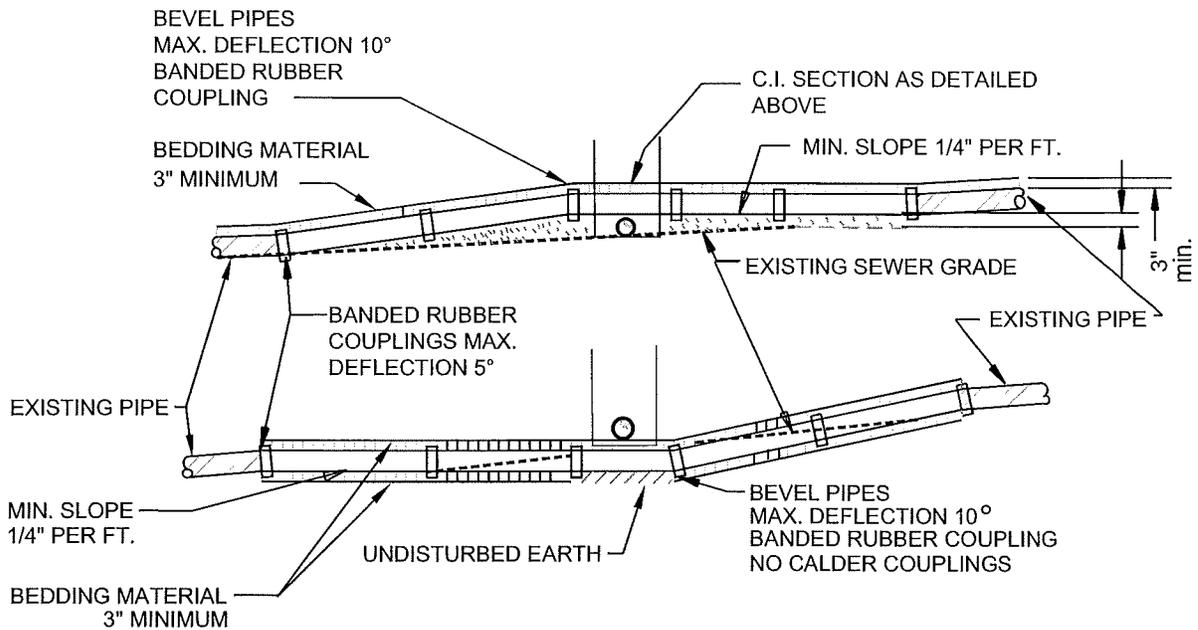
CITY OF TRACY

	REVIEWED BY: <i>Alhams</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 206A
	Res No. 2008-255 DATE:	INSIDE DROP MANHOLE
	Rev:	
	Rev:	



SEWER REPAIR - NO CONFLICT IN GRADE

N.T.S.



SEWER REPAIR WITH CONFLICT IN GRADE

N.T.S.

CITY OF TRACY



Think Inside the Triangle™

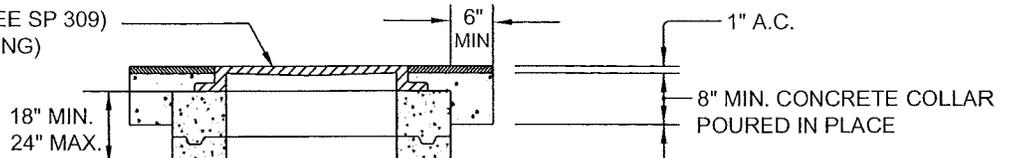
REVIEWED BY:	<i>Alhams</i>	
CITY ENGINEER	RCE 37186	
Res No.	2008-255	DATE:
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STANDARD
PLAN
No.

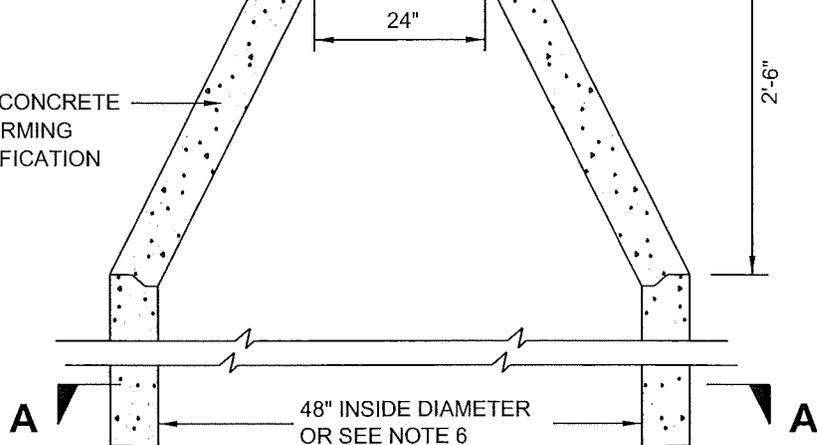
207

**SEWER
LATERAL REPAIR**

CAST IRON RING AND COVER (SEE SP 309)
(ADJUST TO GRADE AFTER PAVING)



PRECAST REINFORCED CONCRETE
MANHOLE CONE CONFORMING
TO PIPE SECTION SPECIFICATION



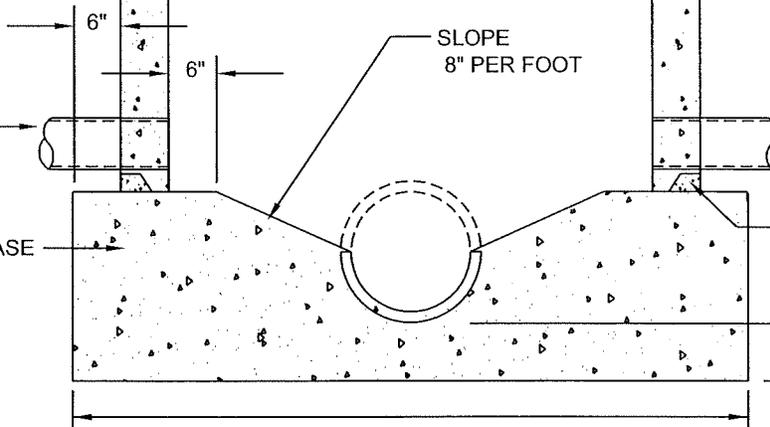
48" INSIDE DIAMETER
OR SEE NOTE 6

SLOPE
8" PER FOOT

MANHOLE PIPE SECTION
CONFORMING TO ASTM
C 478 (LATEST REVISION)
WITH 4" MIN. WALL

SEE NOTE 5 (TYP.)

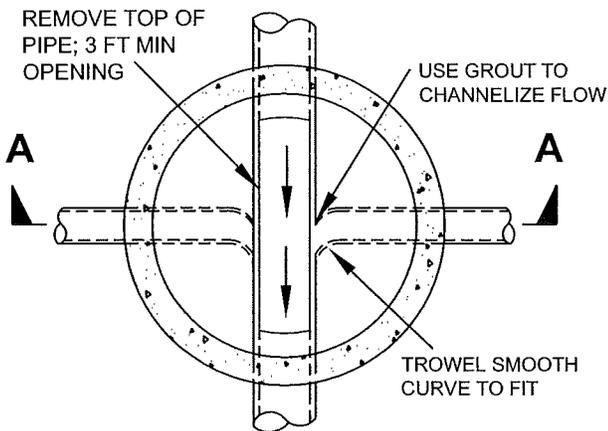
POURED CONCRETE BASE



GROUT (TYP.)

5'-10"

REMOVE TOP OF
PIPE; 3 FT MIN
OPENING



TROWEL SMOOTH
CURVE TO FIT

NOTES:

1. ALL JOINTS SHALL BE SEALED RAM-NEK OR KENT-SEAL #2.
2. BACKFILL AROUND MANHOLE SHALL HAVE 95% COMPACTION.
3. CONCRETE SHALL BE FIVE SACK CLASS "B" 2500 PSI AT 28 DAYS; 4" MAX. SLUMP; 3/4" MAX. AGGREGATE.
4. NO JOINTS IN THE PIPE WILL BE PERMITTED WITHIN THE MANHOLE.
5. PIPES SHALL HAVE AT LEAST ONE JOINT WITHIN 3 FEET FROM MANHOLE.
6. FOR PIPE SIZE GREATER THAN 36" OR DEPTH GREATER THAN 10 FT., INSIDE DIAMETER SHALL BE 60"

CITY OF TRACY



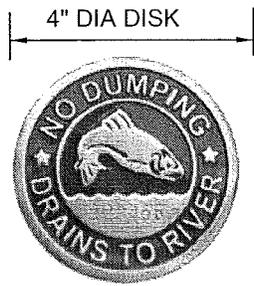
Think Inside the Triangle™

REVIEWED BY:	<i>Alhanna</i>	
CITY ENGINEER	RCE	
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD
PLAN
No.

301

MANHOLE

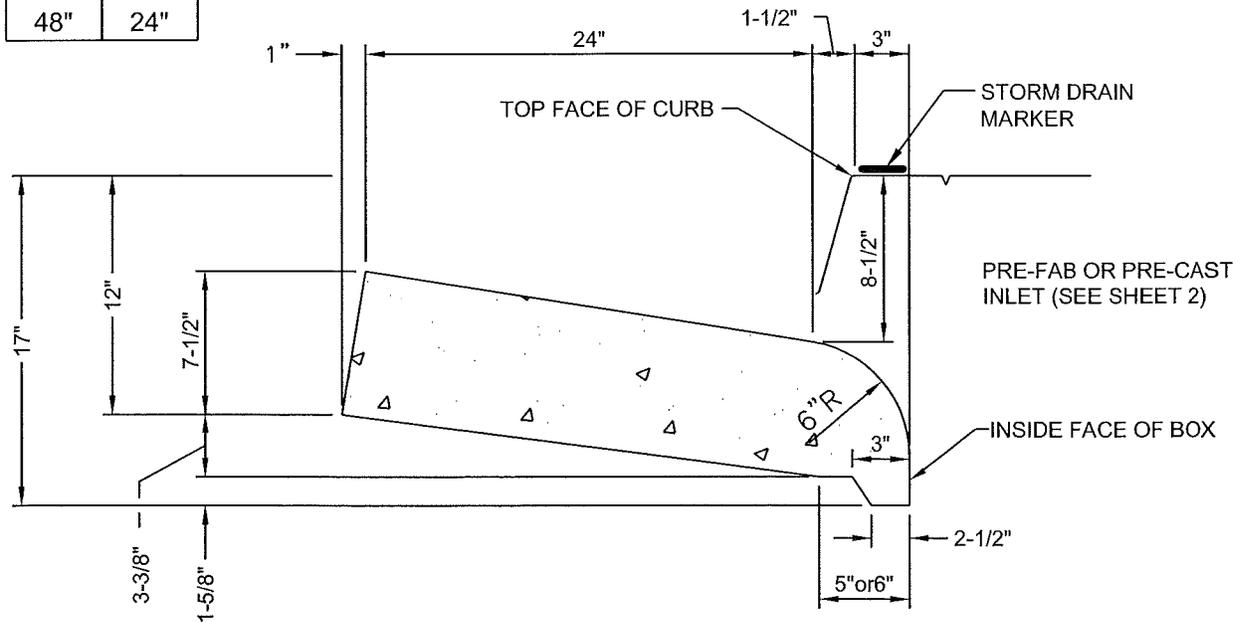
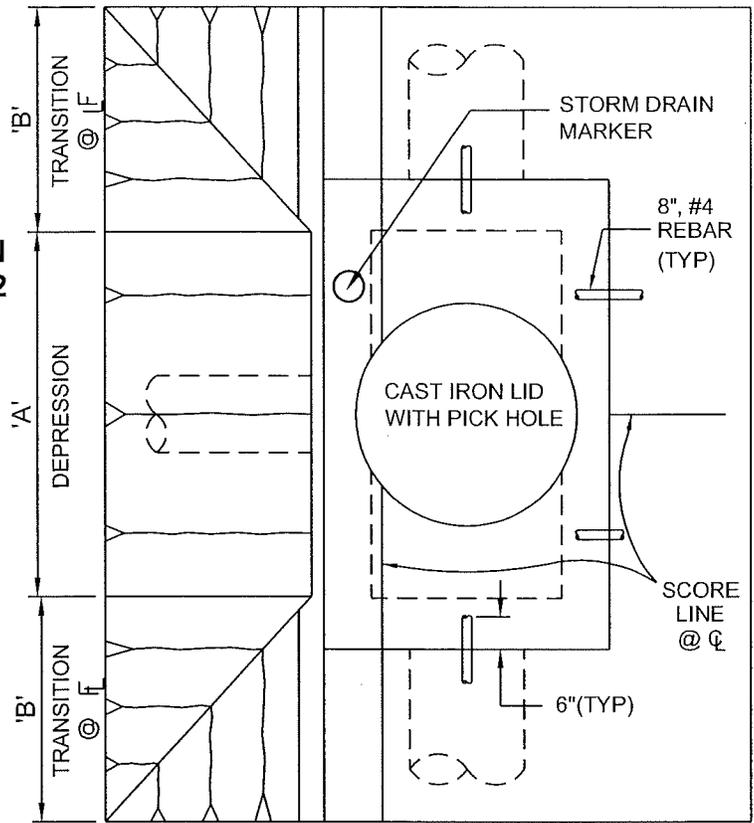


STORM DRAIN MARKER

MARKER TO BE ALMETEK STAINLESS STEEL PAINTED DISK, BLUE WITH FISH LOGO AND LETTERING STATING "NO DUMPING, DRAINS TO RIVER." APPLY PER MANUFACTURERS RECOMMENDATION.

DIMENSIONS	
'A'	'B'
30"	33"
48"	24"

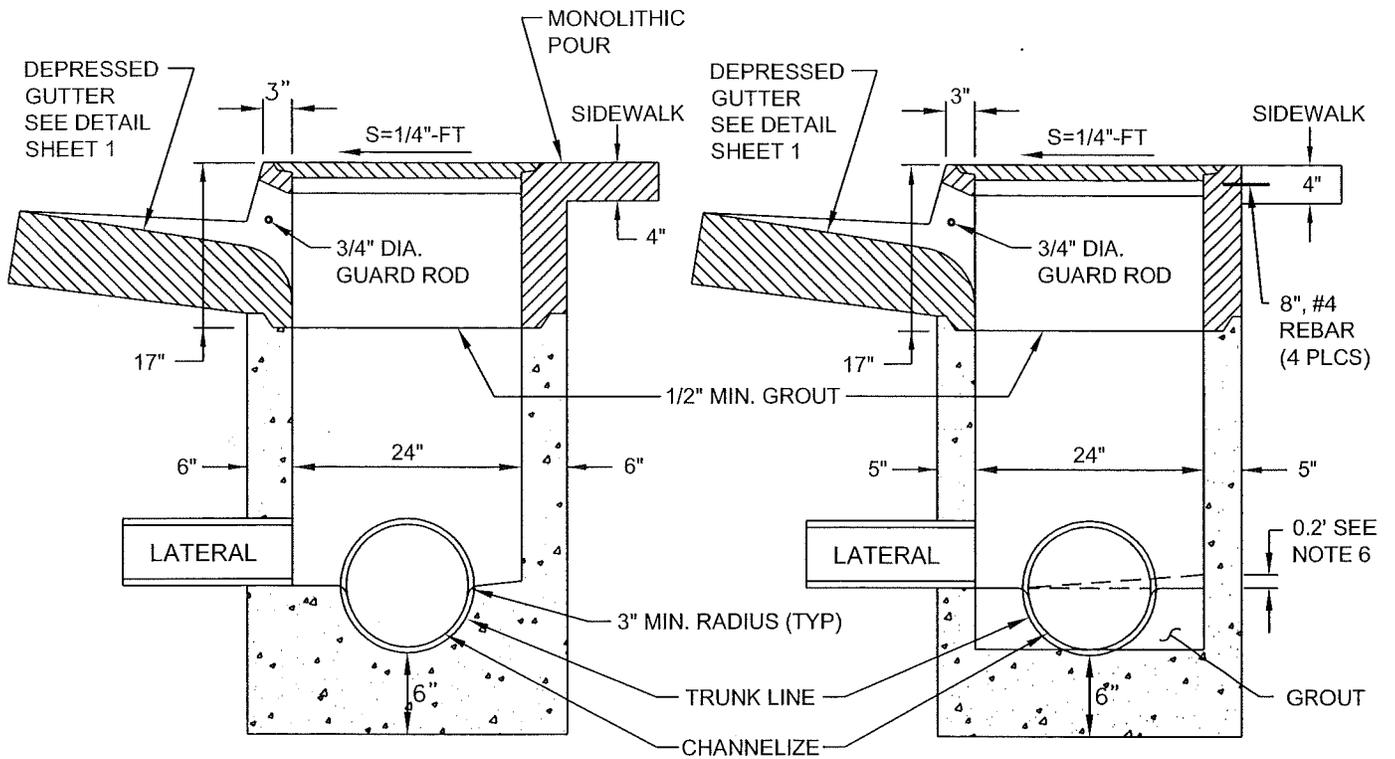
SEE SECTION SHEET 2



DEPPRESSED GUTTER DETAIL
N.T.S.

CITY OF TRACY

<p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhanna</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 302	SHEET 1 OF 2	
	Res No. 2008-255	DATE:	DROP INLET	
	Rev:	Rev:		
	Rev:	Rev:		



SECTION

N.T.S.

**PRE-FAB INLET (PELICAN STYLE)
CAST - IN - PLACE BOX**

SECTION

N.T.S.

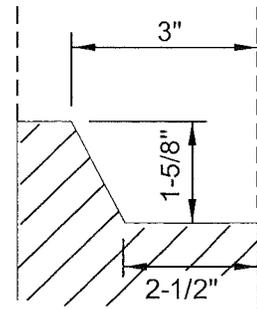
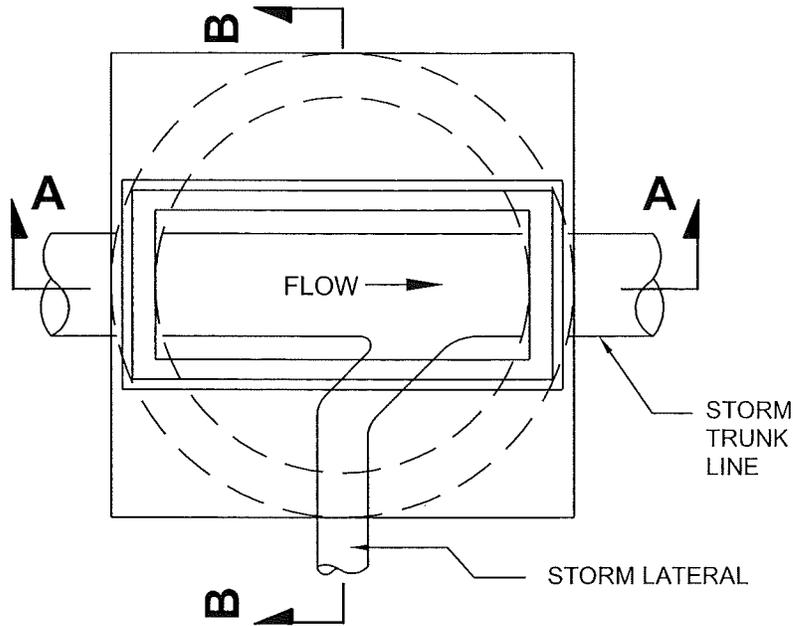
**PRE-CAST INLET
PRE-CAST BOX**

NOTES:

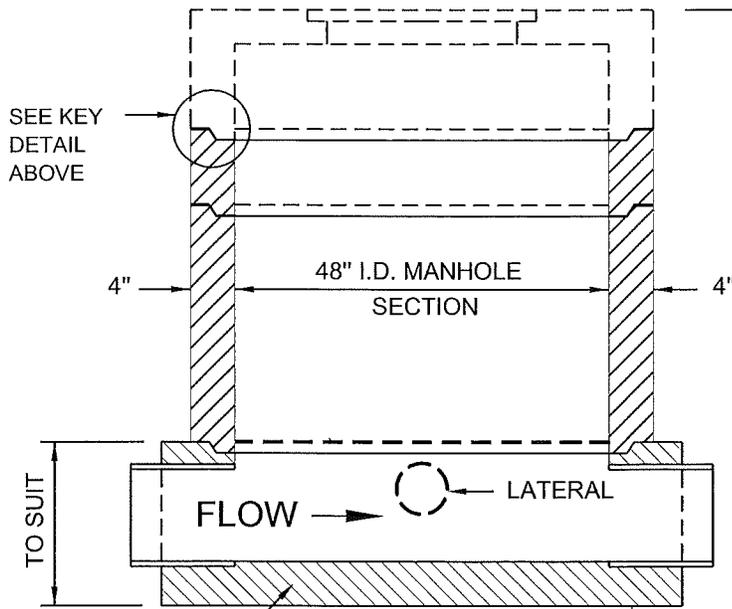
1. LATERAL CROWN TO MATCH TRUNK CROWN, OR LATERAL FLOWLINE TO BE A MINIMUM OF 0.2' HIGHER THAN TRUNK FLOWLINE, WHICHEVER GOVERNS.
2. WHERE TRUNK LINE IS LARGER THAN 24" DIA., USE MANHOLE BASE OR SPECIAL DESIGN BOX. DESIGN TO BE REVIEWED BY CITY ENGINEER.
3. PRECAST INLETS TO BE SANTA ROSA 4A, OR EQUAL. PREFAB INLETS TO BE SANTA ROSA PELICAN 4A OR EQUAL.
4. PRECAST BOX TO BE CHRISTY U36, SANTA ROSA 1K, 3K OR EQUAL.
5. HOLD BOTTOM OF KEY TO THE BOX 17" BELOW TOP OF CURB.
6. SLOPE TO DRAIN WITH GROUT IF BOX HAS NO INLET PIPE.

CITY OF TRACY

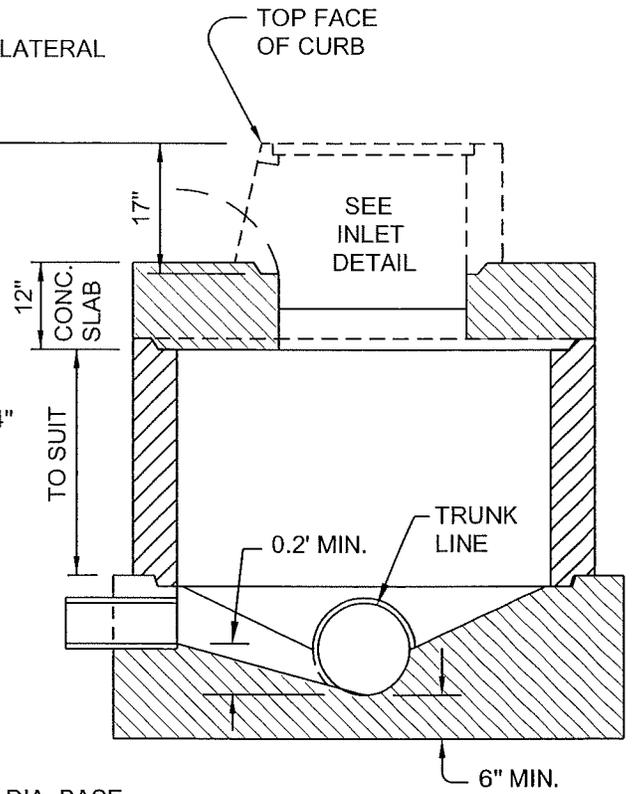
	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 302	SHEET 2 OF 2	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	DROP INLET	
	Rev:	Rev:		
Rev:	Rev:			



KEY DETAIL
N.T.S.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

NOTES:

1. FOR USE WITH 24" & LARGER TRUNK LINES.
2. LATERAL CROWN TO MATCH TRUNK CROWN ELEVATION OR FLOW LINE TO BE A MINIMUM OF 0.2' HIGHER THAN TRUNK FLOW LINE, WHICHEVER GOVERNS.
3. FOR DEPRESSED GUTTER, SEE DROP INLET DETAIL 302.

CITY OF TRACY

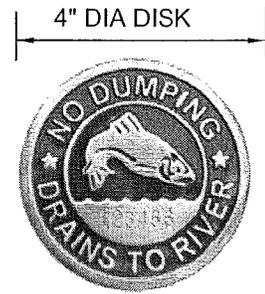
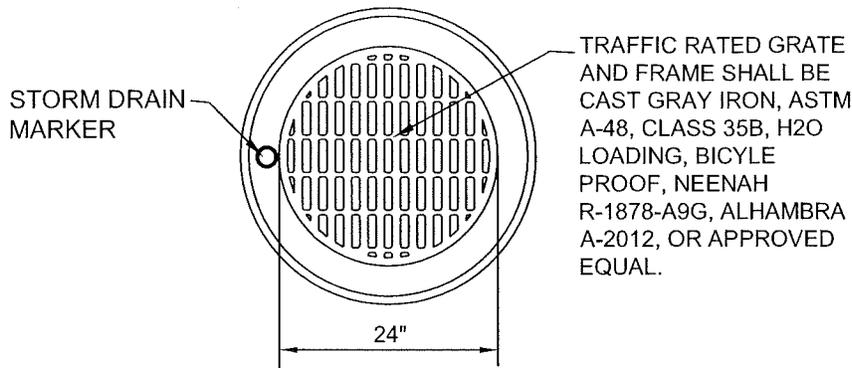


REVIEWED BY:	<i>Blhansu</i>	
CITY ENGINEER	RCE 37186	
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD
PLAN
No.

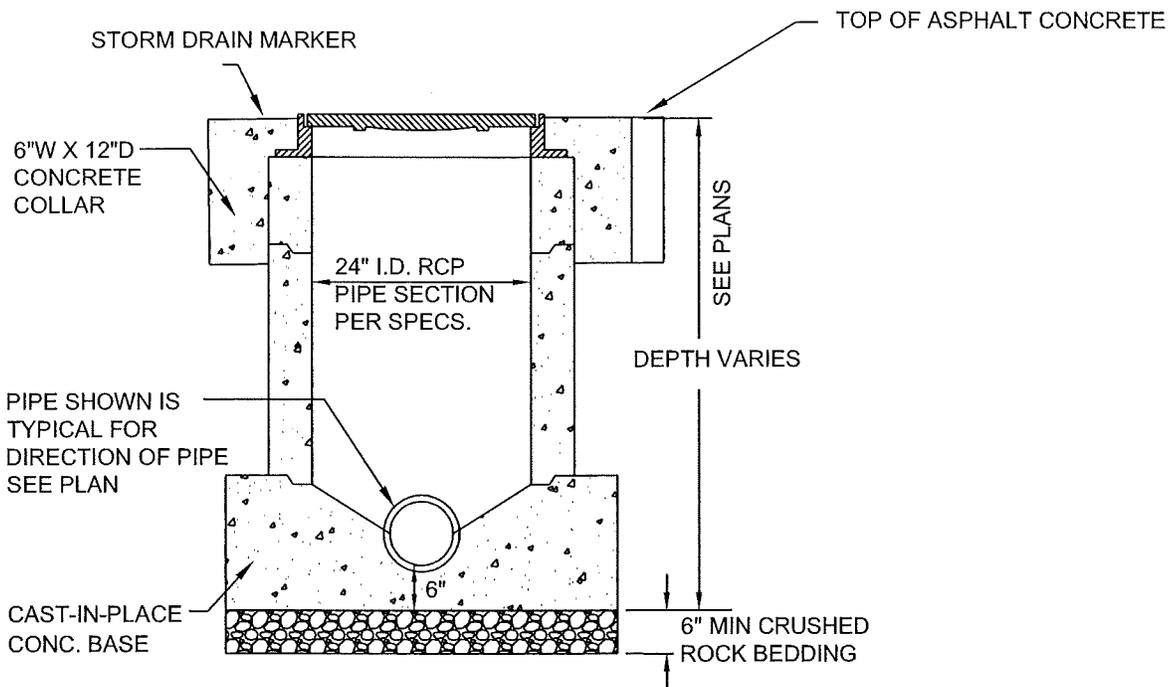
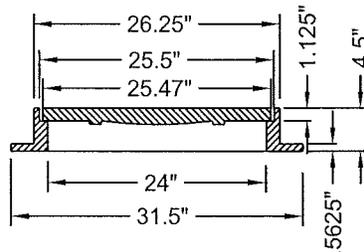
303

**INLET
MANHOLE BASE**



STORM DRAIN MARKER

MARKER TO BE ALMETEK STAINLESS STEEL PAINTED DISK, BLUE WITH FISH LOGO AND LETTERING STATING "NO DUMPING, DRAINS TO RIVER." APPLY PER MANUFACTURERS RECOMMENDATION.

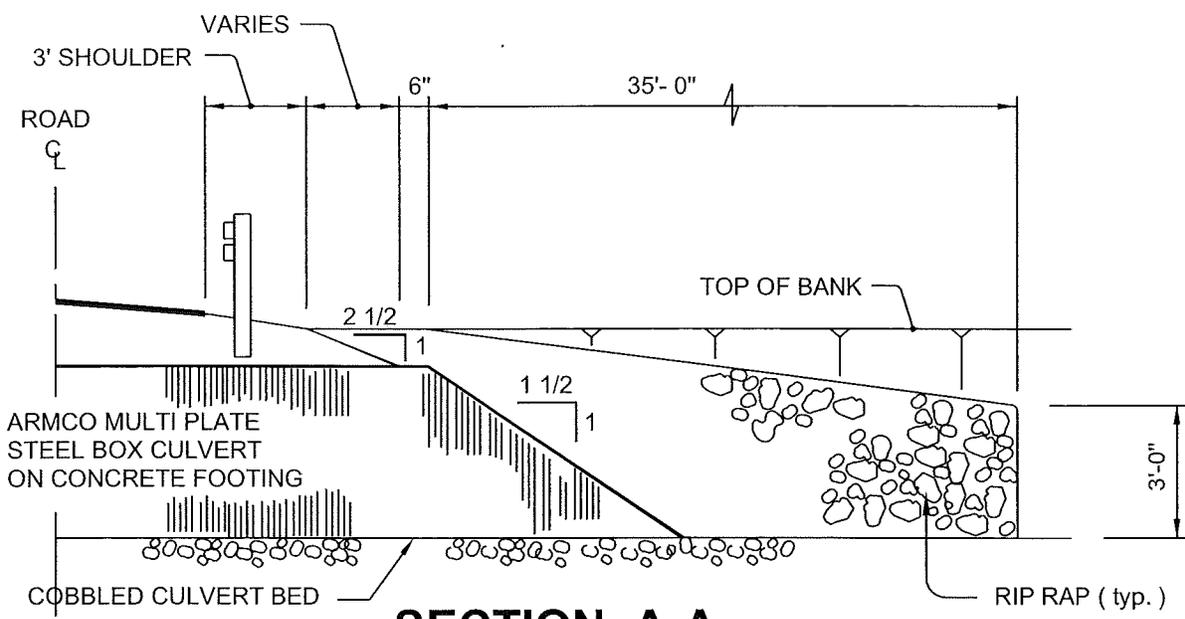


NOTES:

SEE PARKS AND STREETScape DETAIL D1.16, "AREA DRAIN" FOR NON-STRUCTURAL INLET APPLICATIONS.

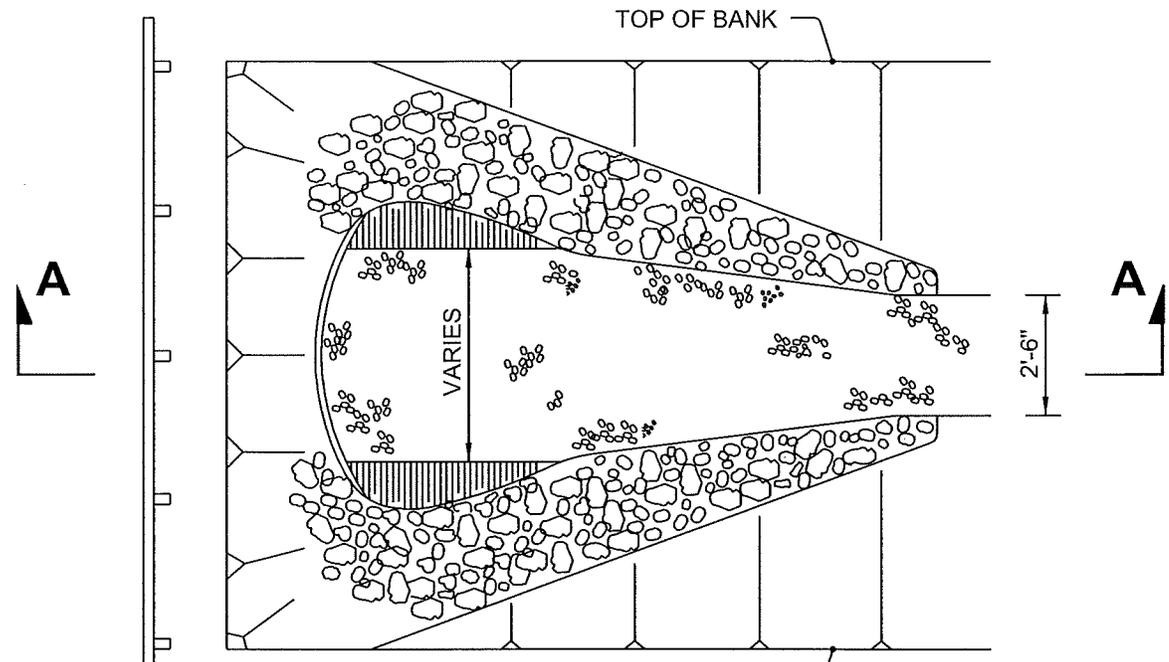
CITY OF TRACY

	REVIEWED BY: <i>Alhams</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 303A
	Res No. 2008-255 DATE:	SHALLOW DROP/CURB INLET
	Rev:	
	Rev:	



SECTION A-A

N.T.S.



PLAN

N.T.S.

NOTES:

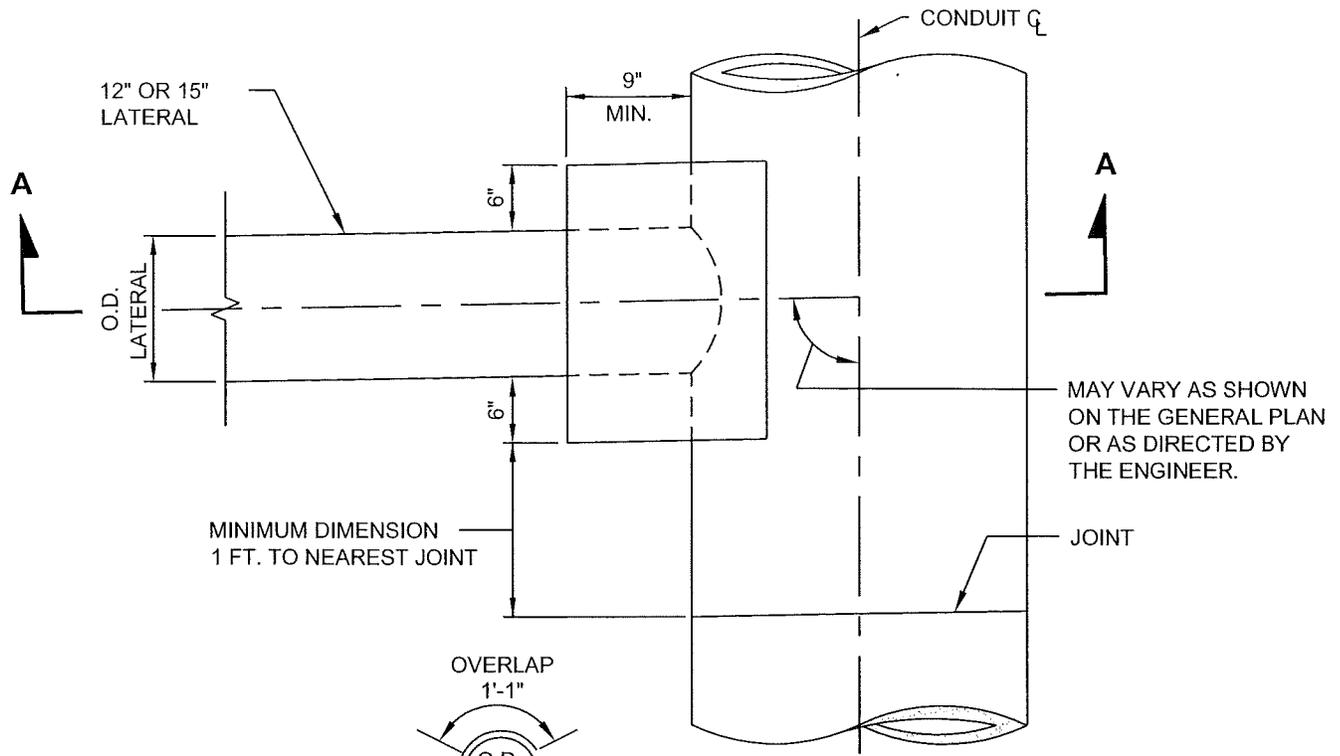
FOR CULVERT & FOOTING DETAILS, SEE MANUFACTURER'S SPECIFICATIONS.

CITY OF TRACY

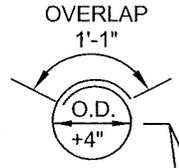


REVIEWED BY:	<i>Alhama</i>	
CITY ENGINEER	RCE	37186
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD PLAN No.	304
STEEL BOX CULVERT	



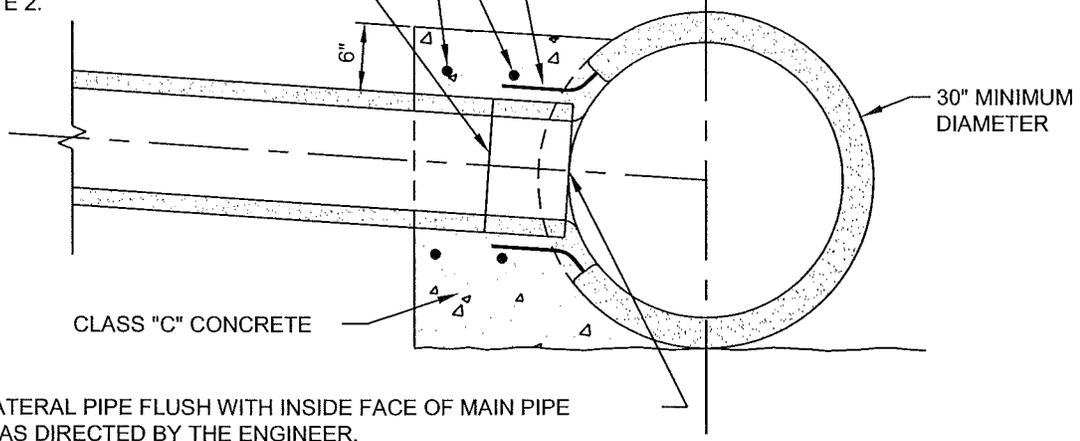
2-#4 HOOPED BAR



PLAN

WHEN USING SHORT STUB EXTEND COLLAR 9" BEYOND JOINT SEE NOTE 2.

CUT MAIN PIPE AND REINFORCING BARS. CLEAN AND BEND INTO NEW CONCRETE.



TRIM LATERAL PIPE FLUSH WITH INSIDE FACE OF MAIN PIPE FINISH AS DIRECTED BY THE ENGINEER.

SECTION A-A

NOTES:

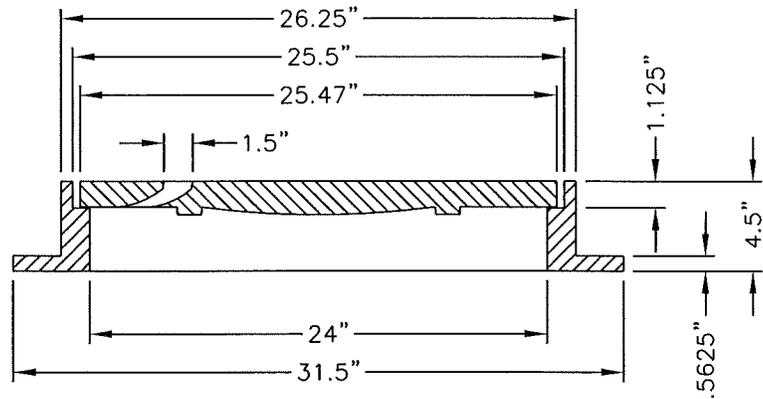
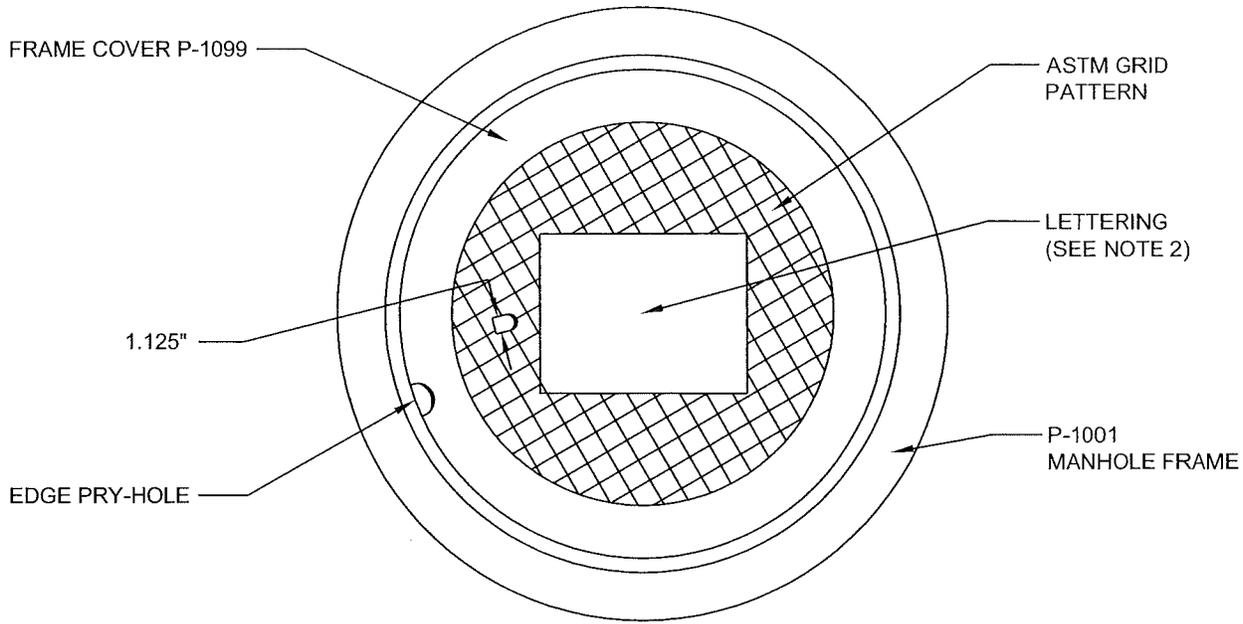
1. INSIDE DIAMETER OF LATERAL SHALL NOT BE LARGER THAN 1/2 OF INSIDE DIAMETER FOR MAIN PIPE.
2. USE SHORT STUB WHEN PIPE IS TOO SMALL TO FINISH FROM INSIDE.
3. LATERAL MUST INTERSECT MAIN LINE RADIALLY. HOLE SHALL BE CUT TO MINIMUM DIAMETER.
4. INSTALLATION SUBJECT TO CITY ENGINEER'S APPROVAL.

CITY OF TRACY



REVIEWED BY:	<i>Alhanna</i>	
CITY ENGINEER	RCE 37186	
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD PLAN No.	305
LATERAL SIDE CONNECTION	

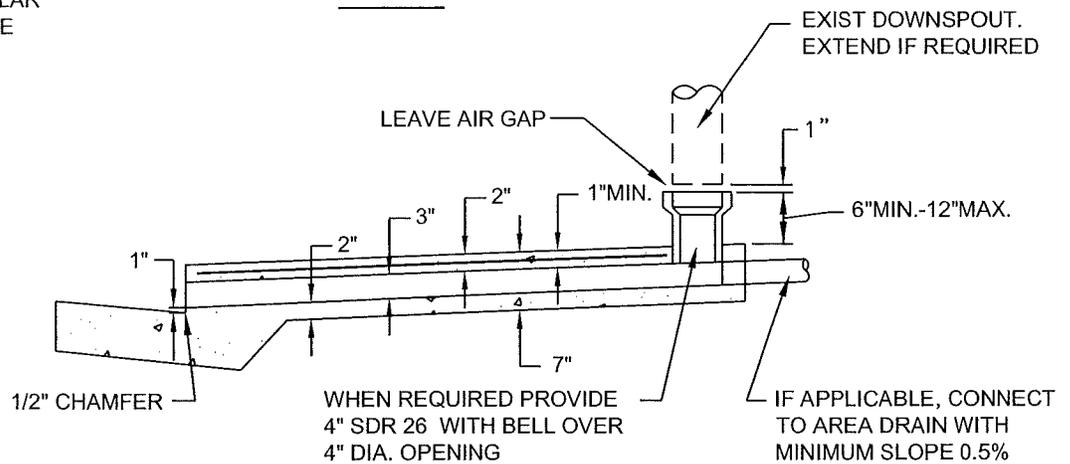
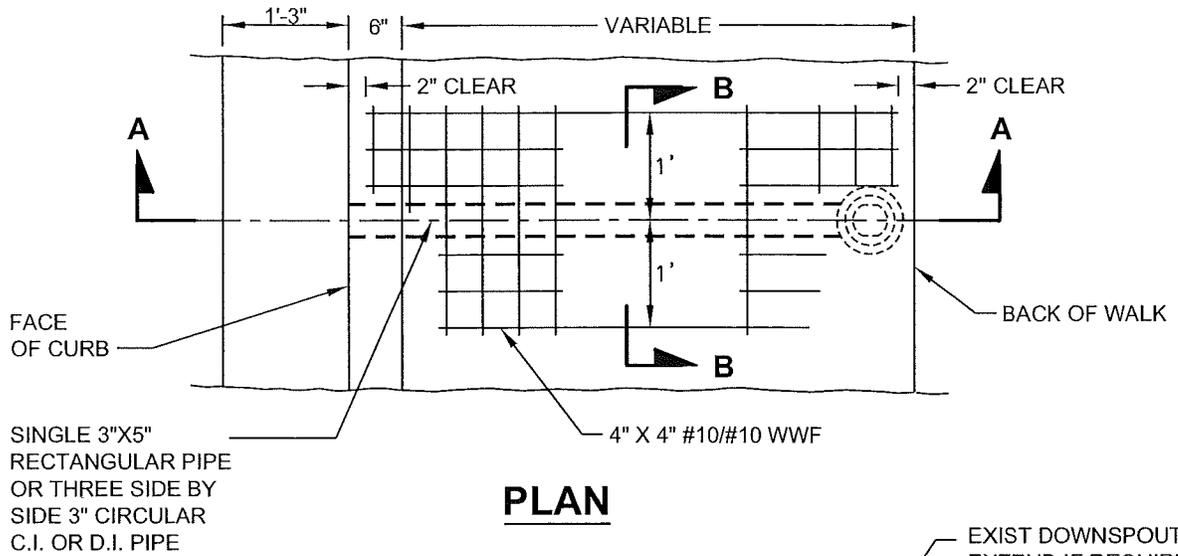


NOTES:

1. FRAME AND COVER SHALL BE PHOENIX IRON WORK P-1090, TEICHERT NO. 6622, PINKERTON A - 193, OR SOUTH BAY FOUNDRY SBF 1900.
2. MANHOLE COVER SHALL INCLUDE LETTERING FOR DESIGNATION OF "SANITARY SEWER" OR "STORM DRAIN - NO DUMPING" AS APPLICABLE.

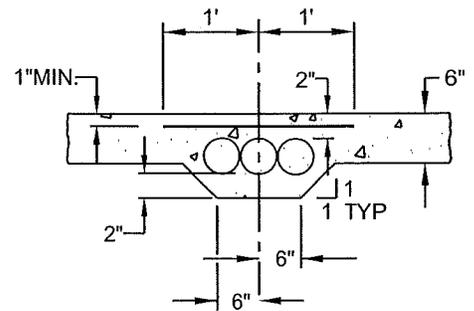
CITY OF TRACY

	REVIEWED BY: <i>Alhama</i>	STANDARD PLAN No.	309	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	FRAME AND MANHOLE COVER ASSEMBLY	
	Rev:	Rev:		
Rev:	Rev:			



NOTES:

1. CURB DRAIN SHALL GRAVITY FLOW FROM PRIVATE CATCH BASIN OR ROOF DRAIN. ROOF DRAINS SHALL HAVE 1" OF SEPARATION BETWEEN DOWN SPOUT AND UNDERGROUND SYSTEM.
2. EXISTING CONCRETE SHALL BE REMOVED TO NEAREST SCORELINE. INSTALL 8" X #4 REBAR DOWELS IN THE EXISTING CONCRETE 1' O.C.
3. MODIFICATION TO THE NUMBER OF OUTLET PIPE IS SUBJECT TO REVIEW BY THE CITY ENGINEER.



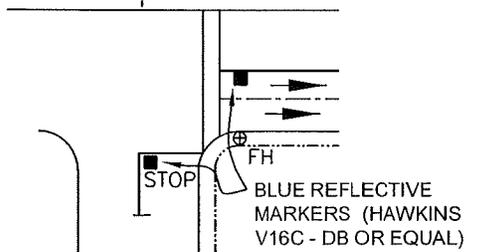
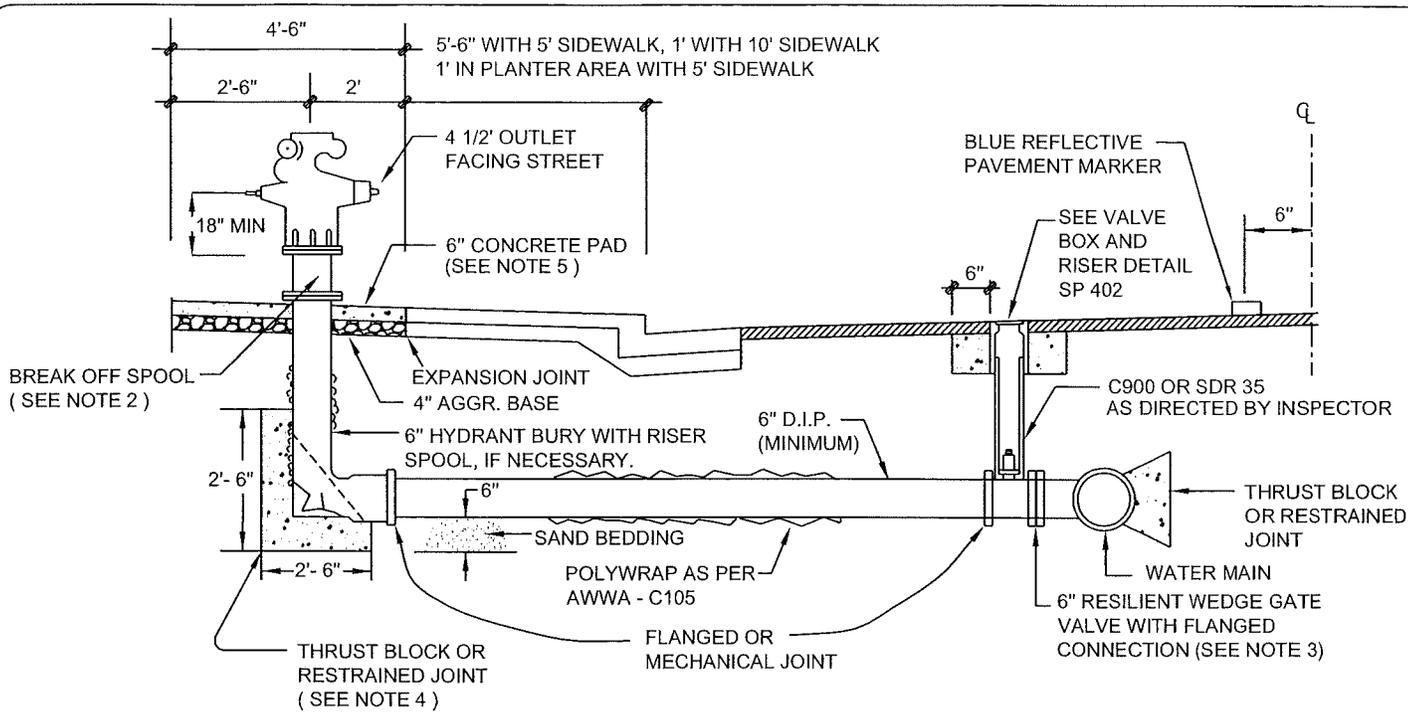
CITY OF TRACY



REVIEWED BY:	<i>Alhanna</i>	
CITY ENGINEER	RCE 37186	
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD PLAN No. **320**

CURB DRAIN INSTALLATION



NOTES:

1. HYDRANT SHALL HAVE 1, 4 1/2" UPPER OUTLET AND 1, 2 1/2" HOSE OUTLET, LONG BEACH 425, MUELLER A481, CLOW 850 OR APPROVED EQUAL. HYDRANTS AND ALL EXPOSED PARTS SHALL BE PAINTED ONE COAT PRIMER AND TWO FINISHING COATS OF BENJAMIN MOORE SAFETY YELLOW OR FULLER O'BRIEN HIGHWAY YELLOW.
2. BREAK OFF SPOOL 6" IN LENGTH SHALL BE INSTALLED 2" ABOVE CONCRETE SLAB. THE BOLTS ATTACHING HYDRANT TO BURY AND SPOOL SHALL BE OF THE BREAK-OFF TYPE, HEX HEAD, GALVANIZED OR STAINLESS STEEL. NUTS SHALL BE DOWN.
3. VALVE SHALL BE PLACED ADJACENT TO THE MAIN AS A RESILIENT WEDGE GATE VALVE. TOTALLY ENCAPSULATED, FACTORY EPOXY LINED & COATED.
4. THRUST BLOCK SHALL BE INSPECTED AND APPROVED AT THE TIME OF CONSTRUCTION PER CITY STANDARD PLAN 423.
5. CONCRETE PAD SHALL BE 4'-6"X5'. SLOPE SHALL BE 1/4" IN 1' TO CURB. CONCRETE SHALL BE CLASS "B" 2500 PSI ; 4" MAXIMUM SLUMP ; 3/4" MAXIMUM AGGREGATE WITH 1/2 LB. LAMPBLACK PER CUBIC YARD. PAD SHALL BE FINISHED TO THE SPECIFICATIONS OF THE SIDEWALK.
6. HYDROSTATIC TESTING IS REQUIRED FOR RUNS IN EXCESS OF ONE PIPE LENGTH.
7. HYDRANTS SHALL BE PLACED AT PROPERTY LINE EXTENSION, AT END OF CURB RETURN, 3 FT. FROM DRIVEWAYS, AND NEAR STREET LIGHTS, OR AS SHOWN ON PLANS APPROVED BY CITY ENGINEER.
8. HYDRANT BODIES ARE TO BE LINED WITH FACTORY TWO PART EPOXY.
9. FOR DEVELOPMENT PROJECTS DESIGN ENGINEER SHALL PROVIDE CALCULATIONS TO PROVIDE ADEQUATE FLOW. FIRE HYDRANT LATERAL SIZE MAY BE INCREASED BASED ON FIRE FLOW CALCULATIONS.

BLUE REFLECTIVE MARKER:
 BLUE MARKERS SHALL BE PLACED ON THE LEFT HAND SIDE OF TRAVEL LANE ADJACENT TO THE FIRE HYDRANT TO THE CENTER OF STREET.

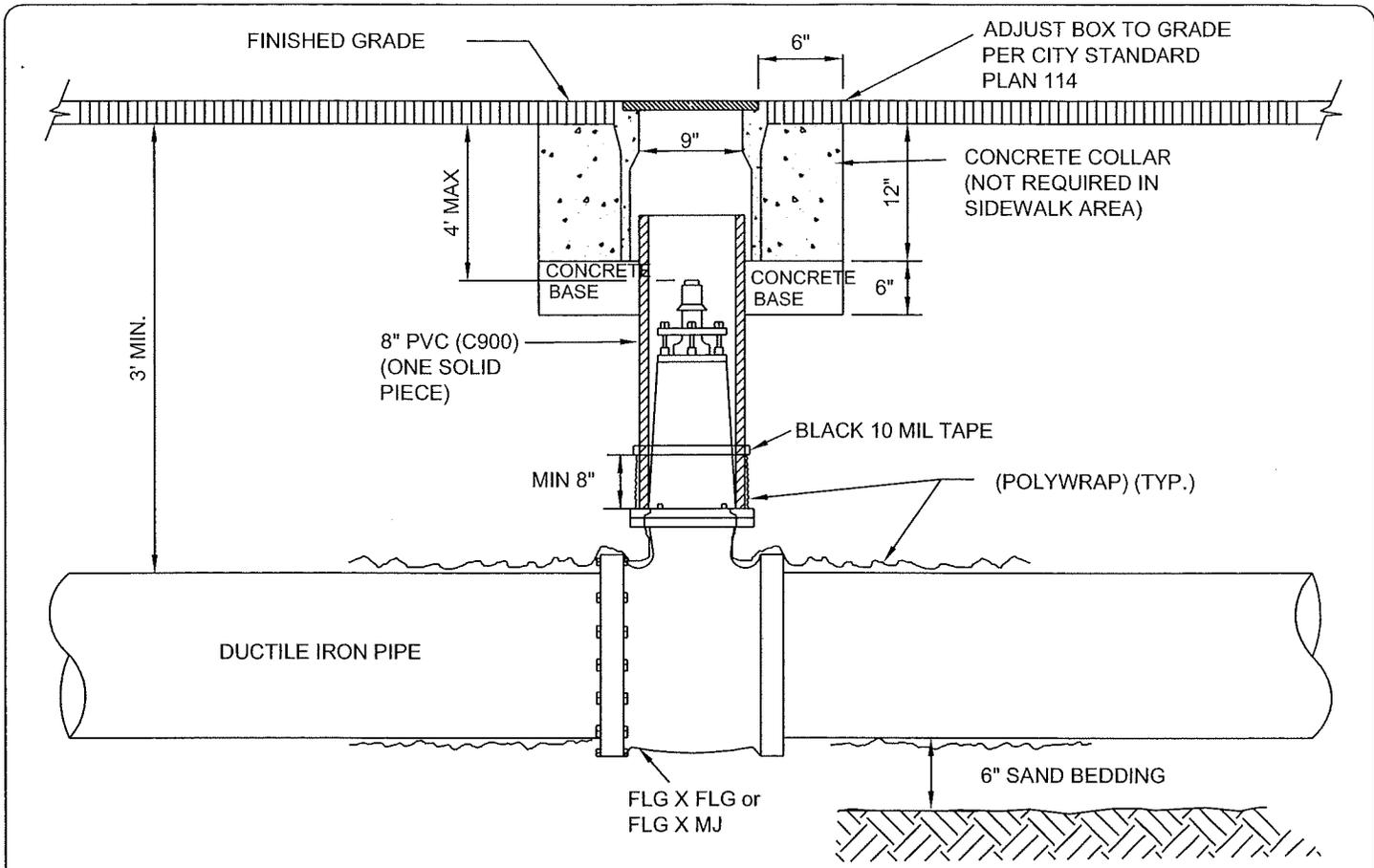
MARKER LOCATION

APPROVED BY:

 FIRE CHIEF

CITY OF TRACY

	REVIEWED BY: <i>Elhano</i>	STANDARD PLAN No. 401
	CITY ENGINEER _____ RCE 37186	
	Res No. 2008-255 DATE: _____	FIRE HYDRANT
	Rev: _____ Rev: _____	

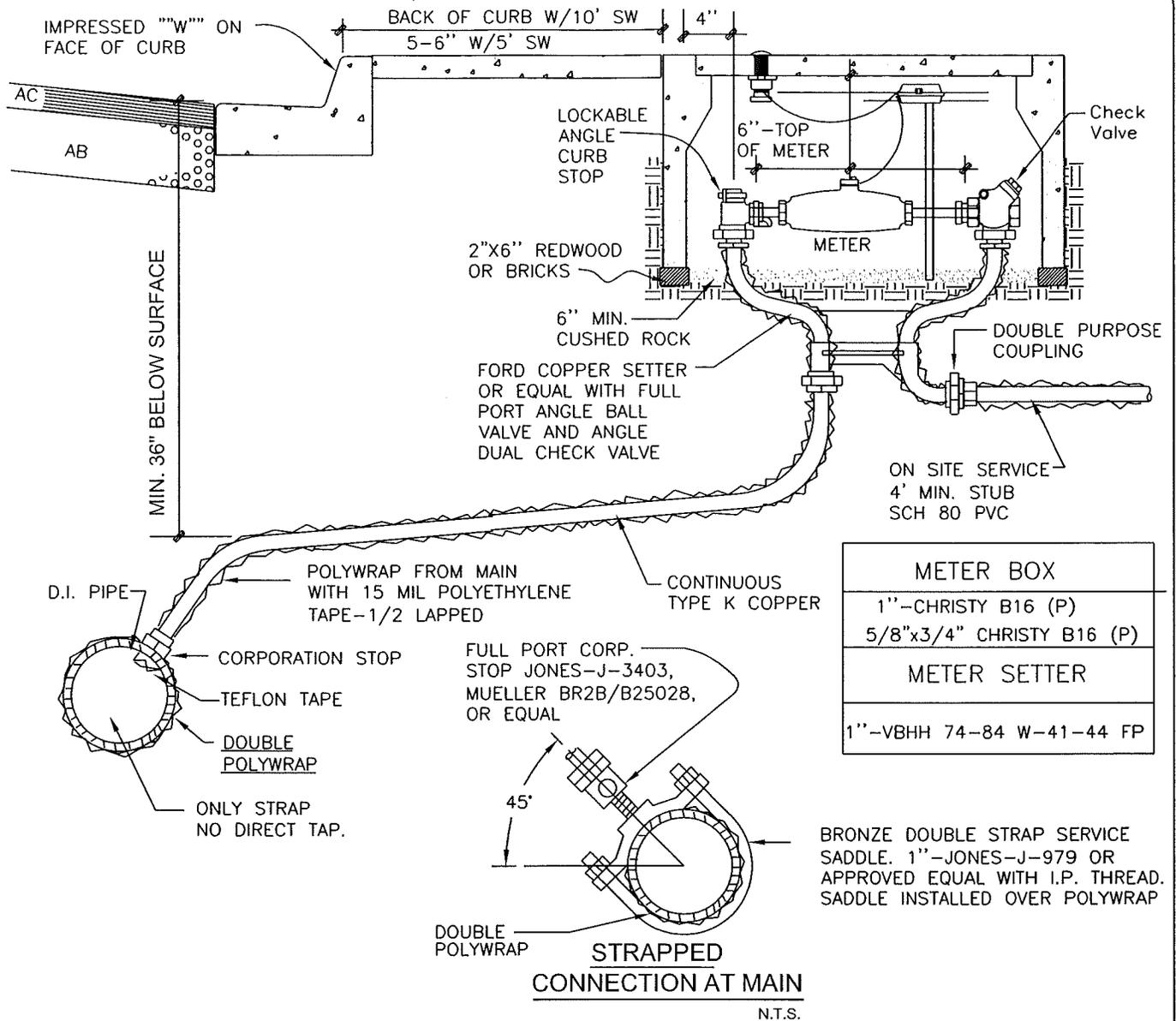


NOTES :

1. VALVES SHALL BE ONE OF THE FOLLOWING :
 - A) BUTTERFLY VALVES : 12" AND LARGER AS SHOWN ON APPROVED MATERIALS LIST SHALL BE USED. APPROVED LIST INCLUDE: ("GROUNDHOG"), ("AMERICAN"), MUELLER, B.I.F., KENNEDY, DRESSER.
 - B) GATE VALVES: 10" AND SMALLER AS SHOWN ON LIST OF APPROVED MATERIALS. APPROVED LIST INCLUDES: MUELLER RESILIENT SEAT, CLOW R/W, KENNDEY, AMERICAN-80 "CRS".
2. OPERATING NUTS SHALL BE RAISED TO WITHIN 4' OF FINISHED STREET GRADE WITH REQUIRED EXTENSIONS BEING PROVIDED BY VALVE MANUFACTURER.
3. POLYWRAP ALL PIPES AND VALVES.
4. VALVES SHALL BE TESTED BY MANUFACTURER AS FOLLOWS: 6" - 12", 175 PSI; 14" AND LARGER, 150 PSI. IN ADDITION, HYDROSTATIC TESTS AGAINST FULLY CLOSED VALVE VANES SHALL BE DONE AS FOLLOWS: 6" - 12", 350 PSI; 14" AND LARGER, 300 PSI.
5. VALVE BOX: BROOKS 3-RT OR CHRISTY G5 WITH G5C LID.

CITY OF TRACY

	REVIEWED BY: <i>Alhama</i>	STANDARD PLAN No.	402
	CITY ENGINEER RCE 37186		VALVE, BOX & RISER
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
	Rev:		



METER BOX	
1" - CHRISTY B16 (P)	
5/8"x3/4" CHRISTY B16 (P)	
METER SETTER	
1" - VBHH 74-84 W-41-44 FP	

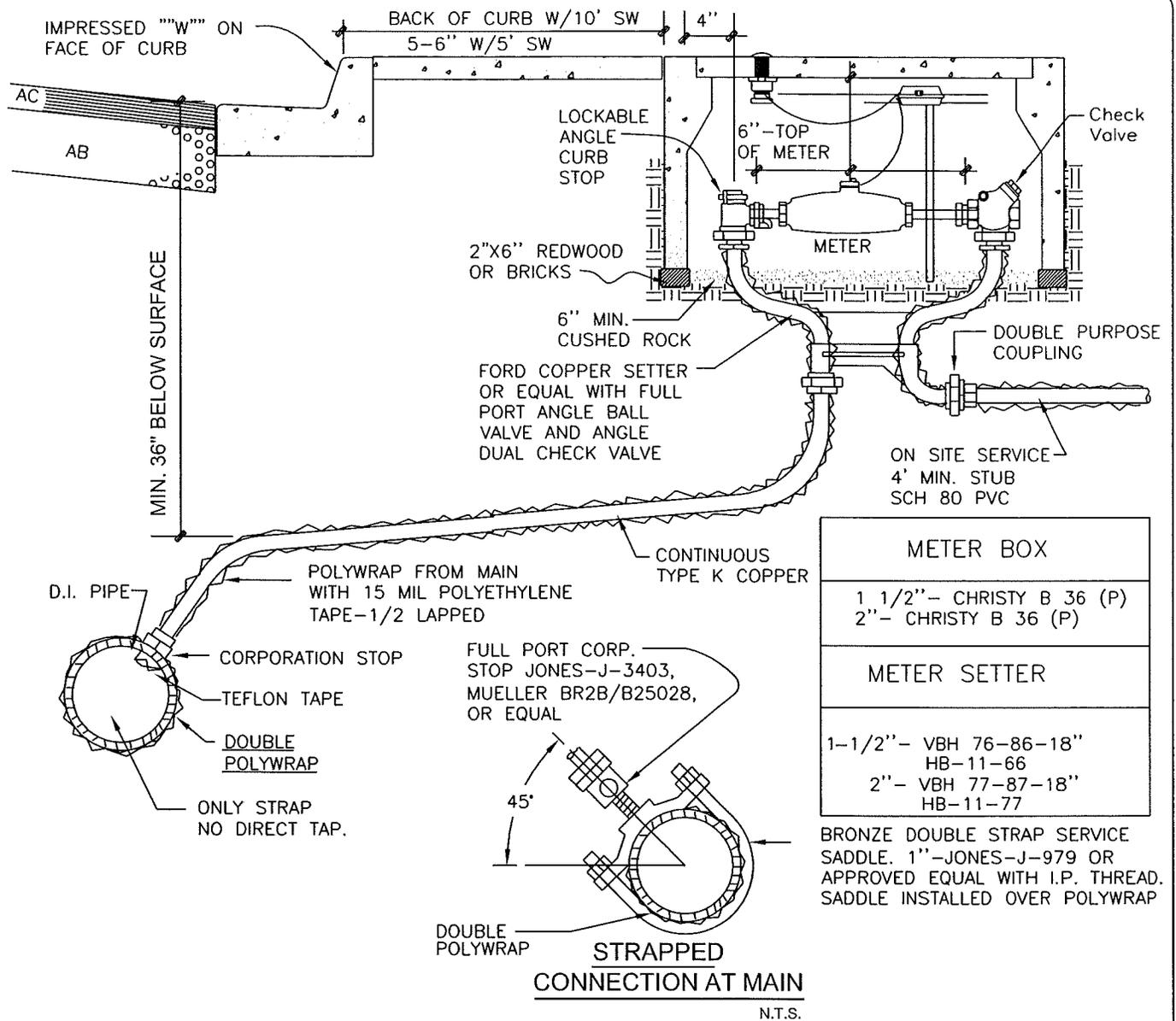
STRAPPED CONNECTION AT MAIN
N.T.S.

NOTES:

1. Meter shall be sensus touch read (TR/PL) with touch read pad installed with radio read meter transceiver unit (M x U model 505). One transceiver unit shall be with each meter and read in cubic feet. Meter shall be minimum size as specified by the City Engineer and shall be set with rubber gaskets. Meter shall be furnished and set by contractor with the M x U model 505 radio read unit to be given to the City to be installed by the City at a later date.
2. Meter box shall be designed and set to accommodate sensus touch read pit lid probe meter reading system in addition to sensus radio read meter reading system.
3. No galvanized pipe shall be used.
4. Compact around the meter to 95%. Onsite plumber shall not remove meter box to connect the pipe.
5. All underground copper water lines within the city right-of-way shall be a single continuous piece polywrapped to City of Tracy Standards.
6. No landscape irrigation lines shall be allowed between the meter box & the sidewalk.
7. Unused existing services shall be abandoned by potholing, cutting out and removing the corporation stop and saddle at the main and installing a full circle 316 stainless steel repair clamp with 316 accessories over the hole.

CITY OF TRACY

 TRACY Think Inside the Triangle™	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 403	1" WATER SERVICE (1" METER OR 5/8"x3/4" METER)
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
	Rev:		

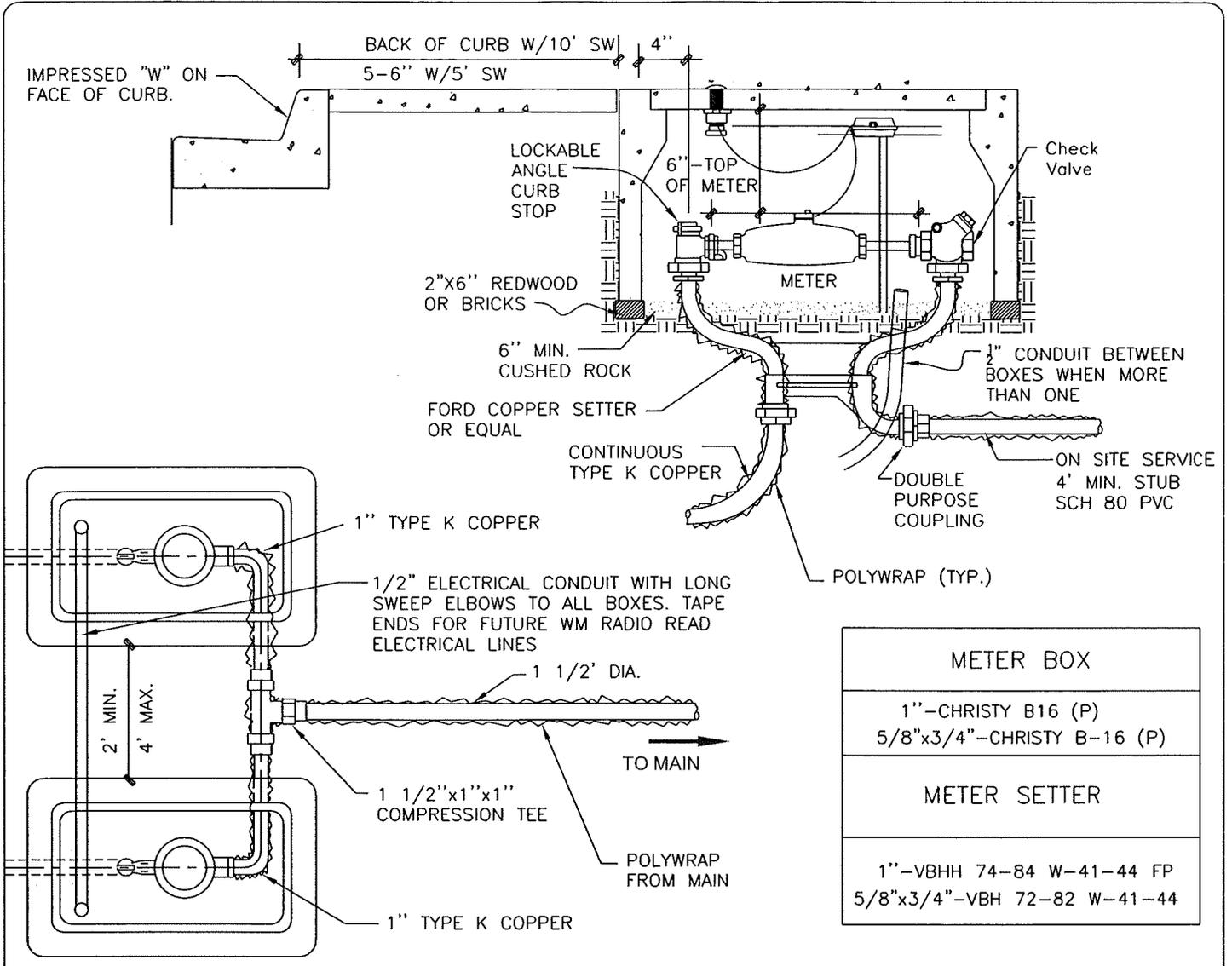


NOTES:

1. Meter shall be sensus touch read (TR/PL) with touch read pad installed with radio read meter transceiver unit (M x U model 505). One transceiver unit shall be with each meter and read in cubic feet. Meter shall be minimum size as specified by the City Engineer and shall be set with rubber gaskets. Meter shall be furnished and set by contractor with the M x U model 505 radio read unit to be given to the City to be installed by the City at a later date.
2. Meter box shall be designed and set to accommodate sensus touch read pit lid probe meter reading system in addition to sensus radio read meter reading system.
3. No galvanized pipe shall be used.
4. Compact around the meter to 95%. Onsite plumber shall not remove meter box to connect the pipe.
5. All underground copper water lines within the city right-of-way shall be a single continuous piece polywrapped to City of Tracy Standards.
6. No landscape irrigation lines shall be allowed between the meter box & the sidewalk.
7. Unused existing services shall be abandoned by potholing, cutting out and removing the corporation stop and saddle at the main and installing a full circle 316 stainless steel repair clamp with 316 accessories over the hole.

CITY OF TRACY

	REVIEWED BY: <i>Alhama</i>	STANDARD PLAN No.	404	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	1-1/2" & 2" WATER SERVICE	
	Rev:	Rev:		
Rev:	Rev:			



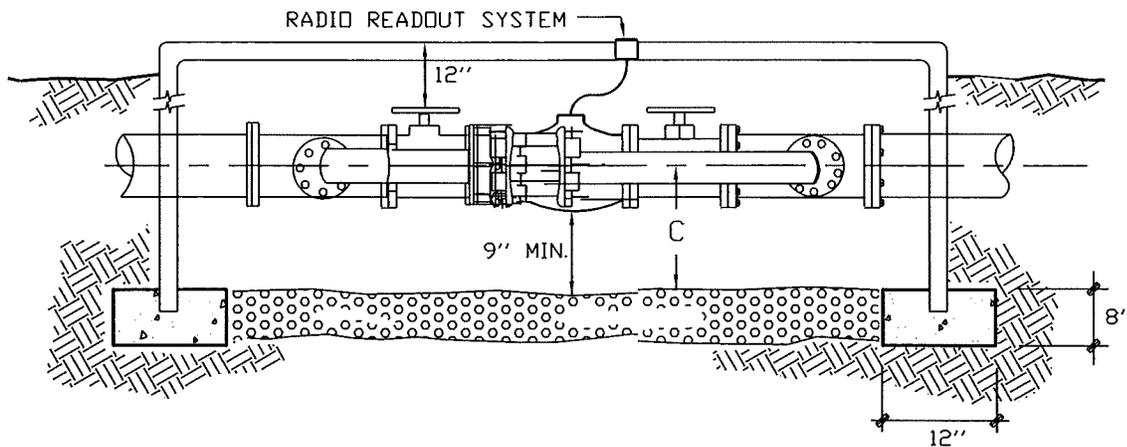
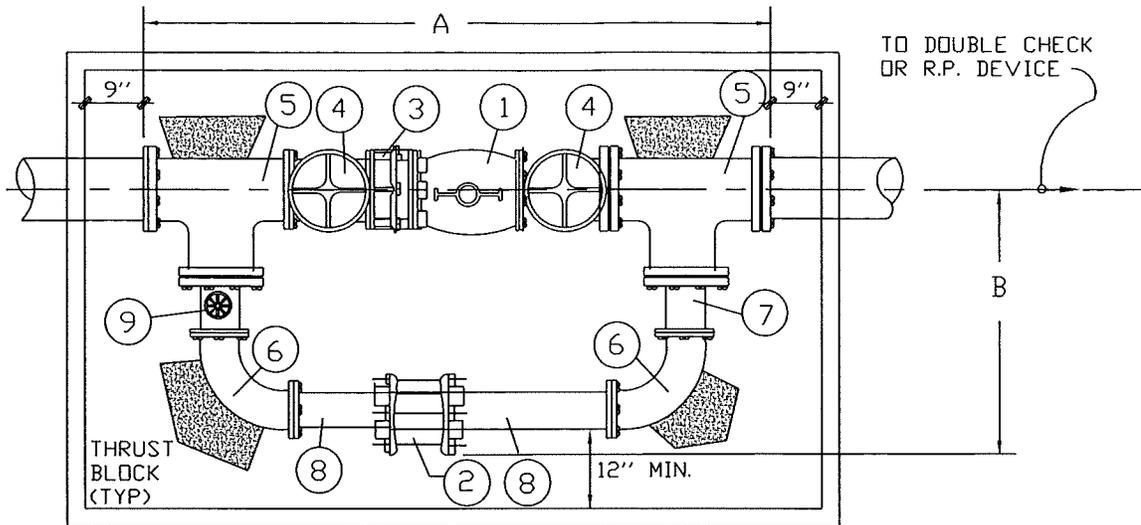
METER BOX
1" - CHRISTY B16 (P) 5/8"x3/4" - CHRISTY B-16 (P)
METER SETTER
1" - VBHH 74-84 W-41-44 FP 5/8"x3/4" - VBH 72-82 W-41-44

NOTES:

1. Use of dual water service only with approval of the City Engineer.
2. Meter shall be sensus touch read (TR/PL) with touch read pad installed with radio read meter transceiver unit (M x U model 505). One transceiver unit shall be with each meter and read in cubic feet. Meter shall be minimum size as specified by the City Engineer and shall be set with rubber gaskets. Meter shall be furnished and set by contractor with the M x U model 505 radio read unit to be given to the City to be installed by the City at a later date.
3. Meter box shall be designed and set to accommodate sensus touch read pit lid probe meter reading system in addition to sensus radio read meter reading system.
4. No galvanized pipe shall be used.
5. Compact around the meter to 95%. Onsite plumber shall not remove meter box to connect the pipe.
6. All underground copper water lines within the city right-of-way shall be a single continuous piece polywrapped to City of Tracy Standards.
7. No landscape irrigation lines shall be allowed between the meter box & the sidewalk.
8. Unused existing services shall be abandoned by potholing, cutting out and removing the corporation stop and saddle at the main and installing a full circle 316 stainless steel repair clamp with 316 accessories over the hole.
9. Multiple water meters must be inter connected with 1/2" electrical conduit and run from box to box

CITY OF TRACY

	REVIEWED BY: <i>Alhano</i>	STANDARD PLAN No.	405	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	1-1/2" DUAL WATER SERVICE	
	Rev:	Rev:		
Rev:	Rev:			



NOTES:

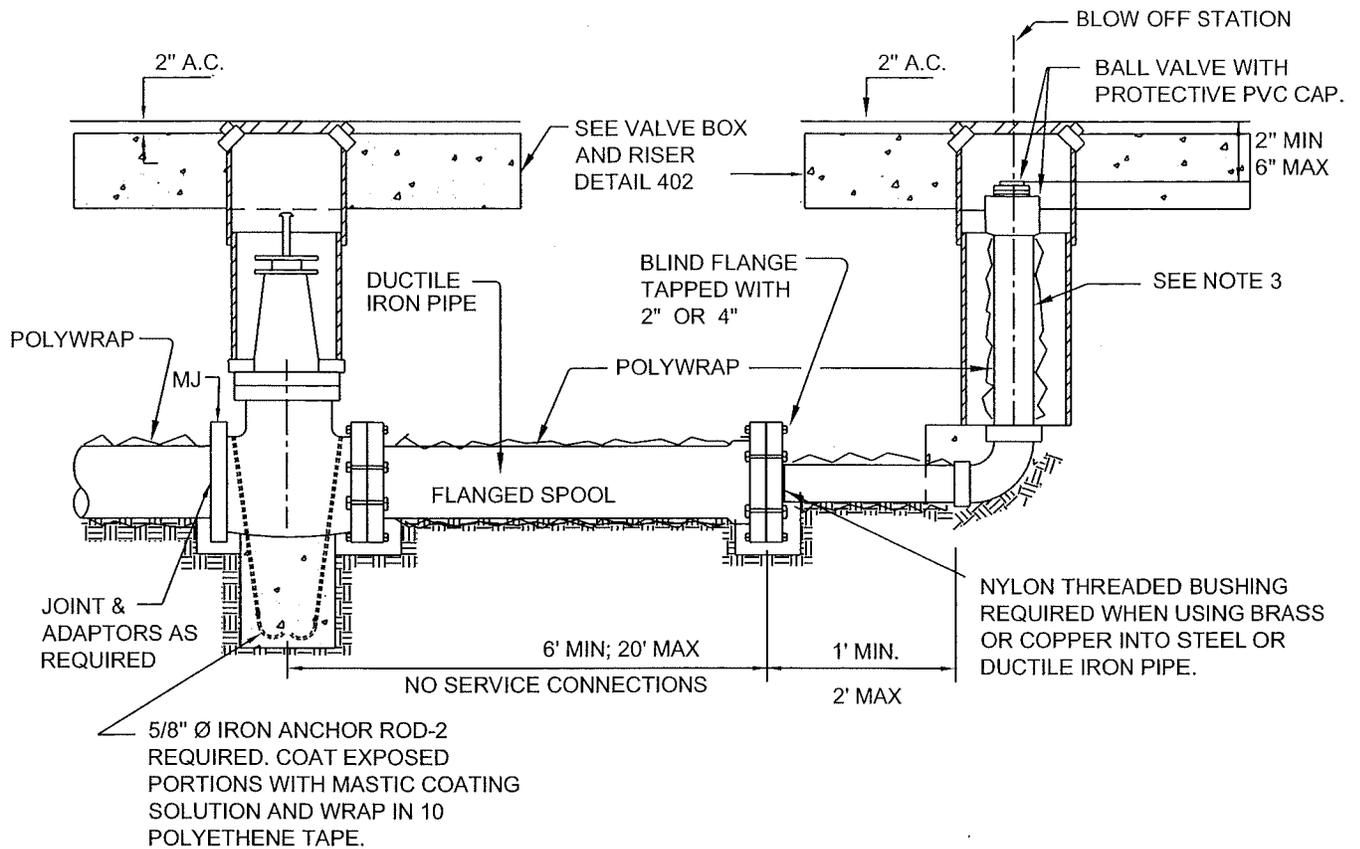
1. PROJECT ENGINEER TO DETERMINE TYPE-COMPOUND, TURBINE RADIO READ METER. RADIO READ TRANSCIVER UNIT M X U MODEL 505. RADIO READ PAD TO BE LOCATED ON VAULT LID.
2. ALL TURBINE METER SHALL HAVE A STRAINER IMMEDIATELY UPSTREAM WITH APPROPRIATE SIZE BOX.
3. INSTALL A LOCKABLE READING LID ABOVE METER REGISTER IN STEEL LIDS.
4. FOR WATER METERS LARGER THAN 6", DESIGNER SHALL SUBMIT A SEPARATE DESIGN FOR APPROVAL BY CITY ENGINEER.
5. WRAP ALL METER PIPE FITTING AND VALVES WITH 8 MIL POLYETHYLENE, EXCEPT FOR PIPE IN METER BOX.
6. UNUSED EXISTING SERVICES SHALL BE ABANDONED BY INSTALLING A BLIND FLANGE ON TIE TEE AT TIE MAIN.
7. THE MINIMUM SIZE SERVICE FOR A STREETScape APPLICATION AND NEIGHBORHOOD PARK IS 4 INCH.
8. NO LANDSCAPE IRRIGATION LINES SHALL BE ALLOWED BETWEEN THE METER BOX AND THE SIDEWALK.

No.	NAME	
1	RADIO READ METER	6 90° ELBOW
2	COUPLING	7 SPOOL
3	ADAPTER	8 BYPASS PIPE DIP SAME SIZE
4	GATE VALVE	9 BYPASS GATE VALVE
5	REDUCING TEE	

DIMENSIONS		3"	4"	6"
A	OVER ALL LENGTH	63	73	86
B	WIDTH PIPE ϕ TO BYPASS	19	21	26
C	PIPE ϕ TO MAXIMUM HEIGHT	16	17	21
MAIN LINE WIDTH				
WEIGHT				
BY PASS SIZE		3"	3"	4"

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 406	
	CITY ENGINEER RCE 37186	<p style="text-align: center;">3", 4" & 6" WATER METER</p>	
	Res No. 2008-255		DATE:
	Rev:		Rev:
	Rev:		

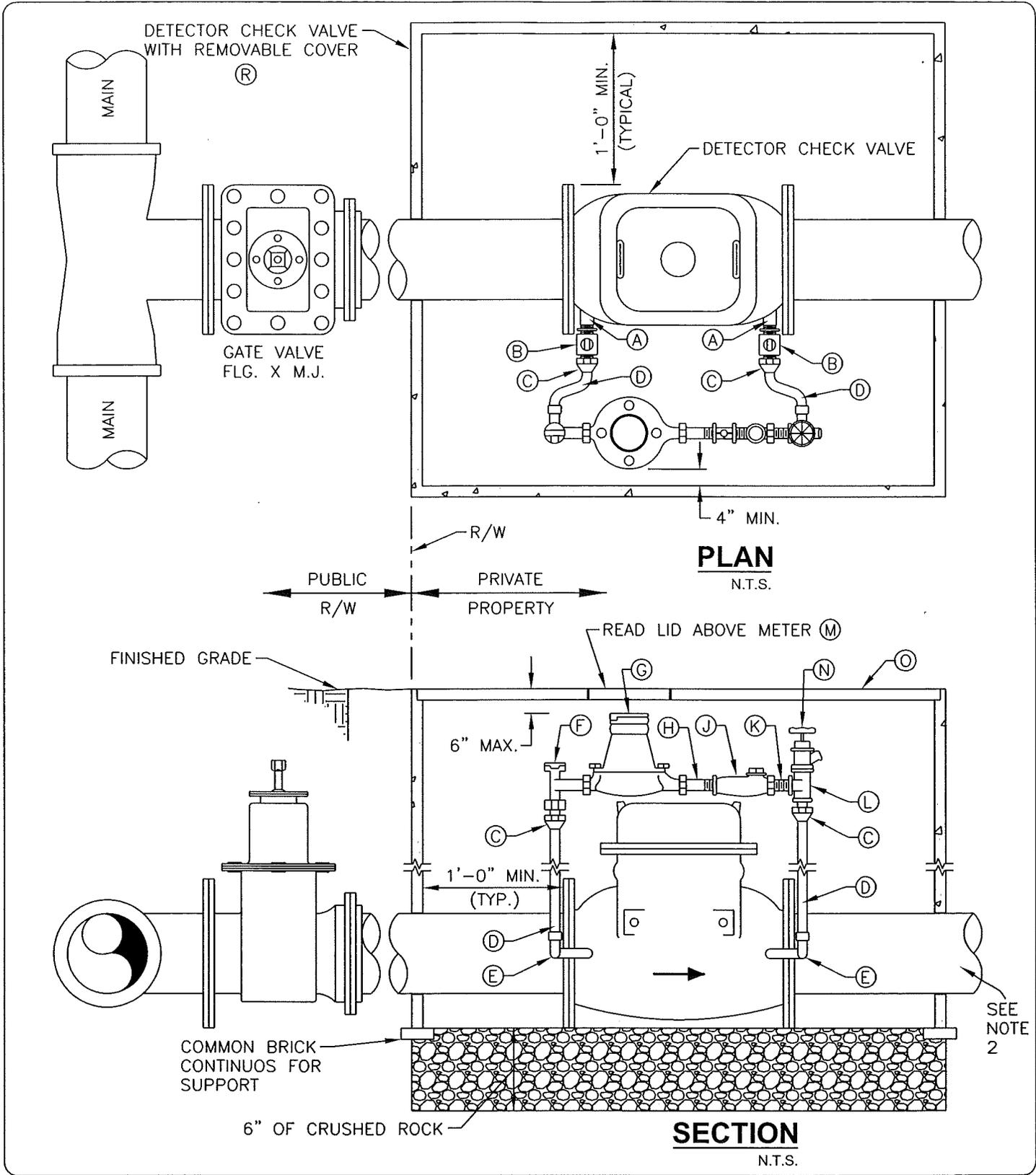


NOTES:

1. FOR THRUST BLOCK DIMENSIONS, SEE STANDARD PLAN NO. 423
2. THE FUTURE EXTENSION STUB SHALL BE TESTED AND CHLORINATED WITH THE REST OF THE MAIN AND BLOWN OFF THROUGH THE PIPE.
3. BLOW OFF SHALL BE 2" BRASS PIPE OR TYPE "K" COPPER TUBING PIPE (6" & 8" MAIN) OR 4" DUCTILE IRON PIPE (10" & 12" MAIN).
4. USE BALL VALVE ON 2" SVC OR BLOW OFF ONLY
5. TRAFFIC BOX SHALL BE CHRISTY G5 WITH G5C LID OR APPROVED EQUAL.
6. VALVE AND BLOW OFF BOXES SHALL BE INSTALLED IN PAVED AREA ONLY UNLESS APPROVED BY THE CITY ENGINEER.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>		STANDARD PLAN No. 409
	CITY ENGINEER RCE 37186		
	Res No. 2008-255	DATE:	BLOW OFF FOR FUTURE EXTENSION WITH VALVE
	Rev:	Rev:	
Rev:	Rev:		



CITY OF TRACY

 <p>TRACY</p> <p>Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 410	SHEET 1 OF 2	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	<p>DETECTOR CHECK VALVE</p>	
	Rev:	Rev:		
Rev:	Rev:			

BILL OF MATERIAL

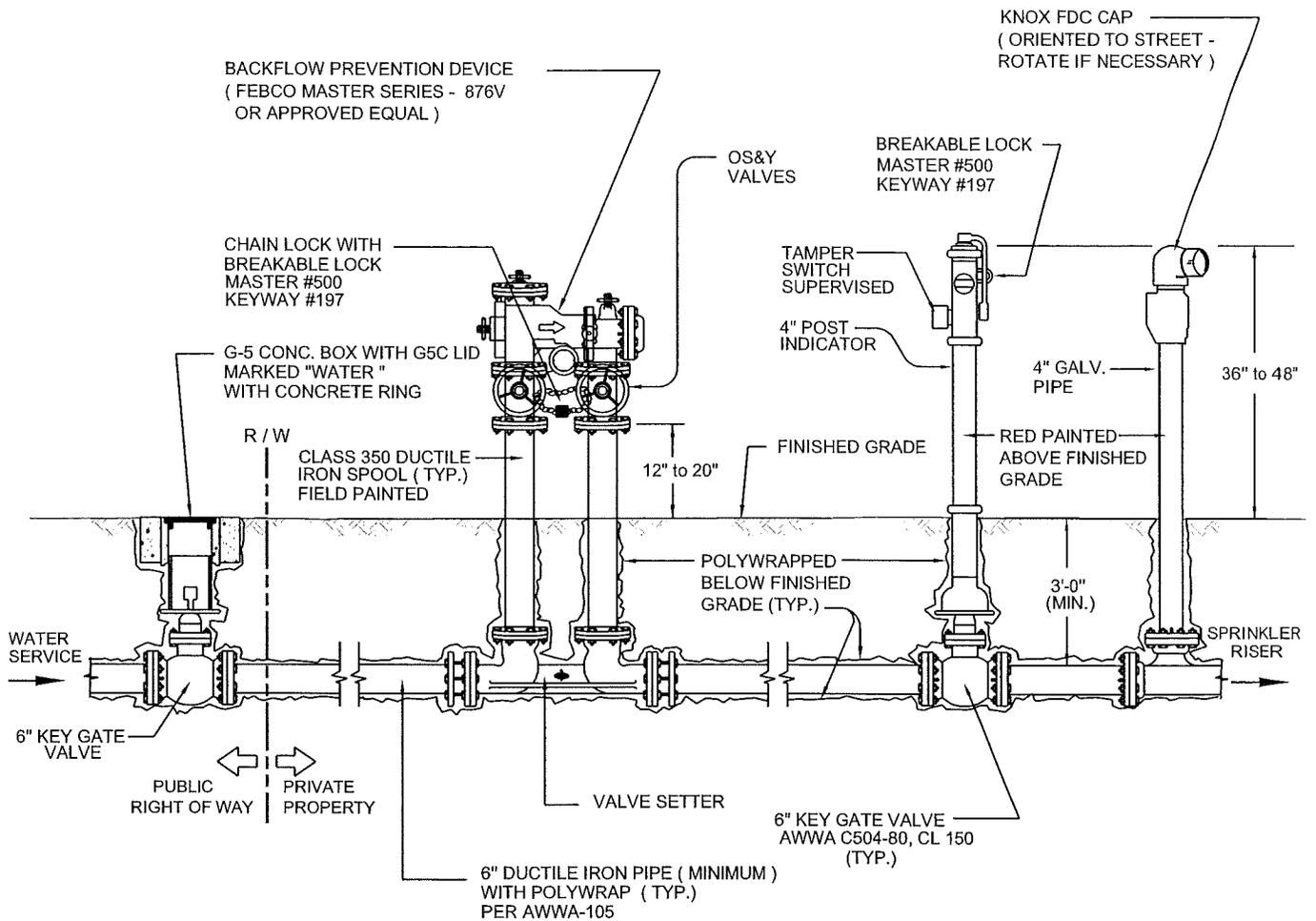
ITEM	QTY.	DESCRIPTION
SERVICE (- FS)		
A	2	BUSHING (SIZE AS REQUIRED)
B	2	3/4" CORP. STOP, I.P. x K
C	4	3/4" CPLG. K x I.P. FE. - SI
D	2	3/4" COPPER TUBING
E	2	3/4" ELL 90° K x K - SI
F	1	3/4" ANGLE STOP I.P.
G	1	5/8" x 3/4" METER (SENSUS RADIO READ)
H	1	3/4" METER SPUD
J	1	DOUBLE CHECK VALVE ASSEMBLY
K	2	3/4" x CLOSE NIPPLE
L	1	3/4" TEE SS BRASS
M	1	SELF CLOSING READ LID
N	1	3/4" x 1/4" TEE SS BRASS
O	1	BOLT DOWN COVER

NOTES:

1. DETECTOR CHECK VALVE TYPE SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC.
2. POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION REQUIRED ON ALL FIRE SERVICE LINES.

CITY OF TRACY

	REVIEWED BY: <i>K. Hanus</i>	STANDARD PLAN No.	410	SHEET 2 OF 2	
	CITY ENGINEER	RCE 37186	DETECTOR CHECK VALVE		
	Res No. 2008-255	DATE:			
	Rev:	Rev:			
Rev:	Rev:				



NOTES:

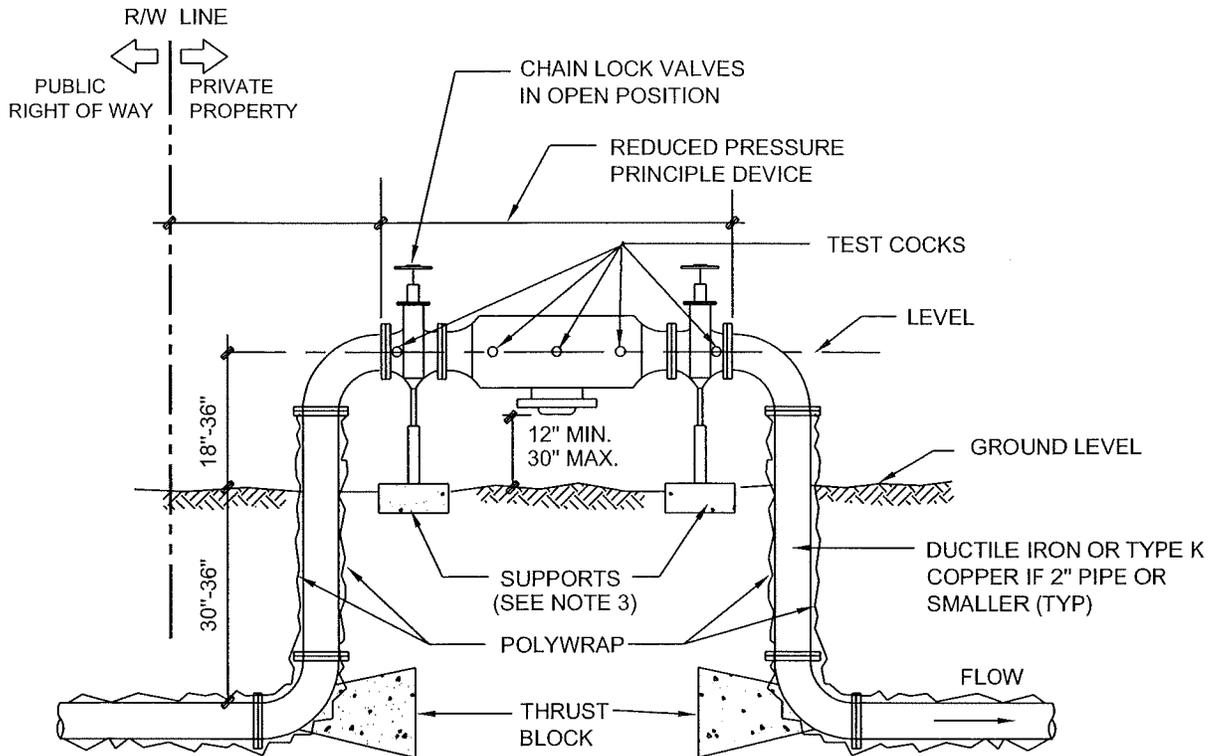
1. A LISTED BACKFLOW PREVENTION DEVICE IS REQUIRED TO BE INSTALLED ON ALL FIRE SPRINKLER SUPPLY LINES.
2. A POST INDICATOR VALVE MAY NOT BE REQUIRED IF THE PROXIMITY OF THE BACKFLOW PREVENTOR TO BUILDING IS ACCEPTABLE TO FIRE DEPARTMENT.
3. BACKFLOW PREVENTION DEVICE SHALL BE LOCATED IN THE PRIVATE PROPERTY.
4. DESIGN ENGINEER SHALL CALCULATE AND DETERMINE THE SIZE OF THE IRON PIPE. MINIMUM 6" DIAMETER PIPE IS REQUIRED.

CITY OF TRACY



REVIEWED BY: <i>Alhanna</i>	
CITY ENGINEER	
Res No. 2008-255	
REVIEWED BY:	Rev:
Prevention Chief	

STANDARD PLAN No.	412
FIRE DEPARTMENT CONNECTION/ BACKFLOW PREVENTOR	



REDUCED PRESSURE ASSEMBLY

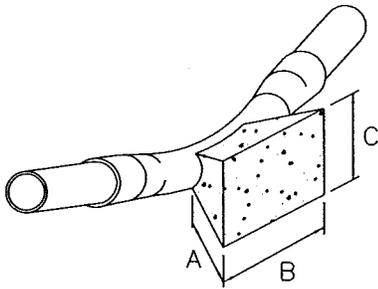
N.T.S.

NOTES:

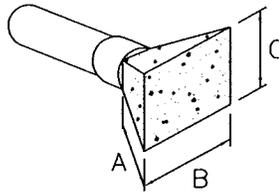
1. BACKFLOW PREVENTION DEVICE SHALL BE LOCATED ON PRIVATE PROPERTY IN A LOCATION APPROVED BY THE CITY PRIOR TO INSTALLATION.
2. BACKFLOW PREVENTION DEVICE SHALL CONSIST OF REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE AS REQUIRED BY TITLE 17 OF FOUNDATION FOR CROSS CONNECTION U.S.C. AND AS SHOWN ON APPROVED LIST ON FILE WITH PUBLIC WORKS. SIZE AND MODEL OF BACKFLOW DEVICE TO BE DETERMINED FOR EACH INSTALLATION DEPENDING UPON ALLOWABLE HEAD LOSS. WHERE BACKFLOW PREVENTION DEVICE IS INSTALLED IN COMBINATION WITH FIRE AND DOMESTIC SERVICE IT SHALL BE APPROVED BY FIRE CHIEF.
3. BARRIER POST SHALL BE LOCATED TO PROTECT PIPING AND VAULTS. CURB AND PARKING BARRIERS CAN BE CONSIDERED AS PROTECTION IF EFFECTIVELY LOCATED.
4. BACKFLOW PREVENTION DEVICE 3" OR LARGER SHALL BE SUPPORTED. USE GRINNELL FIG. 264, WITH 4" THICK, 12" SQUARE CONCRETE FOOTING.
5. WATER SUPPLY - NO CONNECTIONS OR TEES WILL BE ALLOWED BETWEEN METER AND DEVICE.
6. TEST COCKS SHALL BE MUELLER H-11007 OR AS FURNISHED WITH THE BACKFLOW PREVENTION DEVICE.
7. DEVICE SHALL BE ACCESSIBLE FOR TESTING AND MAINTENANCE.
8. CERTIFICATION REQUIRED PRIOR TO ACCEPTANCE.
9. NO GALVANIZED PIPE.

CITY OF TRACY

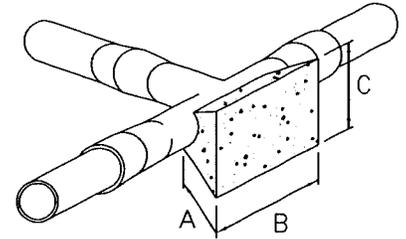
	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 420
	CITY ENGINEER _____ RCE 37186	
	Res No. 2008-255	DATE: _____
	Rev: _____	Rev: _____
	Rev: _____	BACKFLOW PREVENTION DEVICE



BENDS



DEAD ENDS



TEES

THRUST BLOCK AREA REQUIRED												
ALLOWABLE SOIL BEARING VALUE - 2500 POUNDS PER SQUARE FOOT												
FITTINGS	6" LINE			8" LINE			10" LINE			12" LINE		
	A	B	C	A	B	C	A	B	C	A	B	C
22 1/2° BEND	1'	1'-6"	1'-6"	1'	2'	2'	1'	3'	2'	1'-6"	3'	3'
45° BEND	1'	2'	2'	1'-6"	3'	2'-6"	1'-6"	3'-6"	3'	2'	4'	4'
90° BEND	1'-6"	3'	3'	1'-6"	4'	3'	2'	5'	4'	2'	7'	4'
DEAD END	1'	2'-6"	2'	1'-6"	3'	3'	2'	4'	3'-6"	2'	5'	4'
TEE	1'	2'-6"	2'	1'-6"	3'	3'	2'	4'	3'-6"	2'	5'	4'

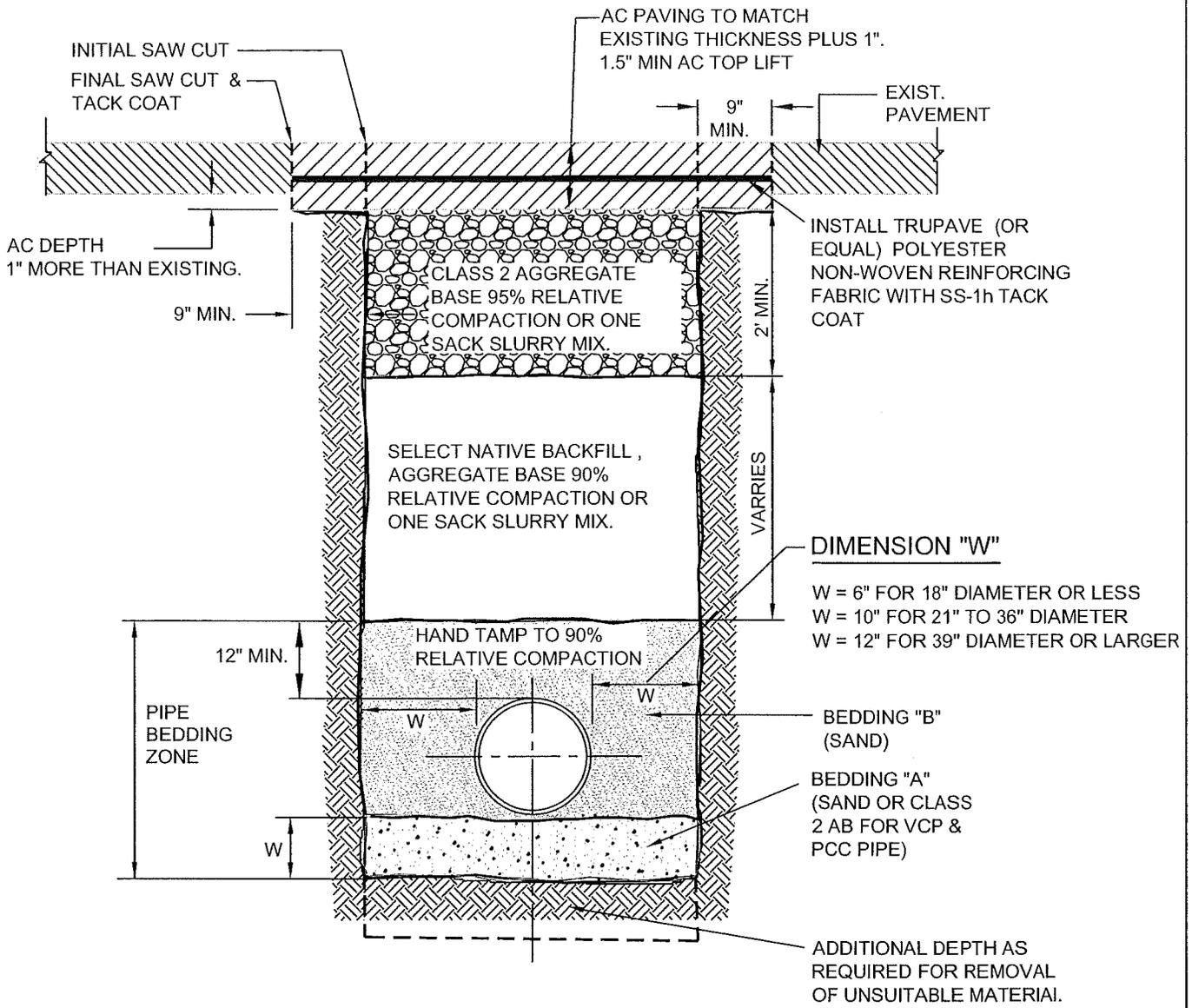
NOTES:

1. CONCRETE SHALL BE CLASS B, 2500 PSI MINIMUM AT 28 DAYS.
2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
3. MINIMUM BEARING AREAS ARE SHOWN IN THE ABOVE TABLE.
4. THRUST BLOCKS WILL BE WEDGE-SHAPED AND SHALL NOT OVERLAP BELL ON FITTINGS OR INTERFERE WITH BOLTS ON FLANGE.

CITY OF TRACY

<p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 423
	CITY ENGINEER RCE 37186	
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	Rev:	

THRUST BLOCK



TYPE I

N.T.S.

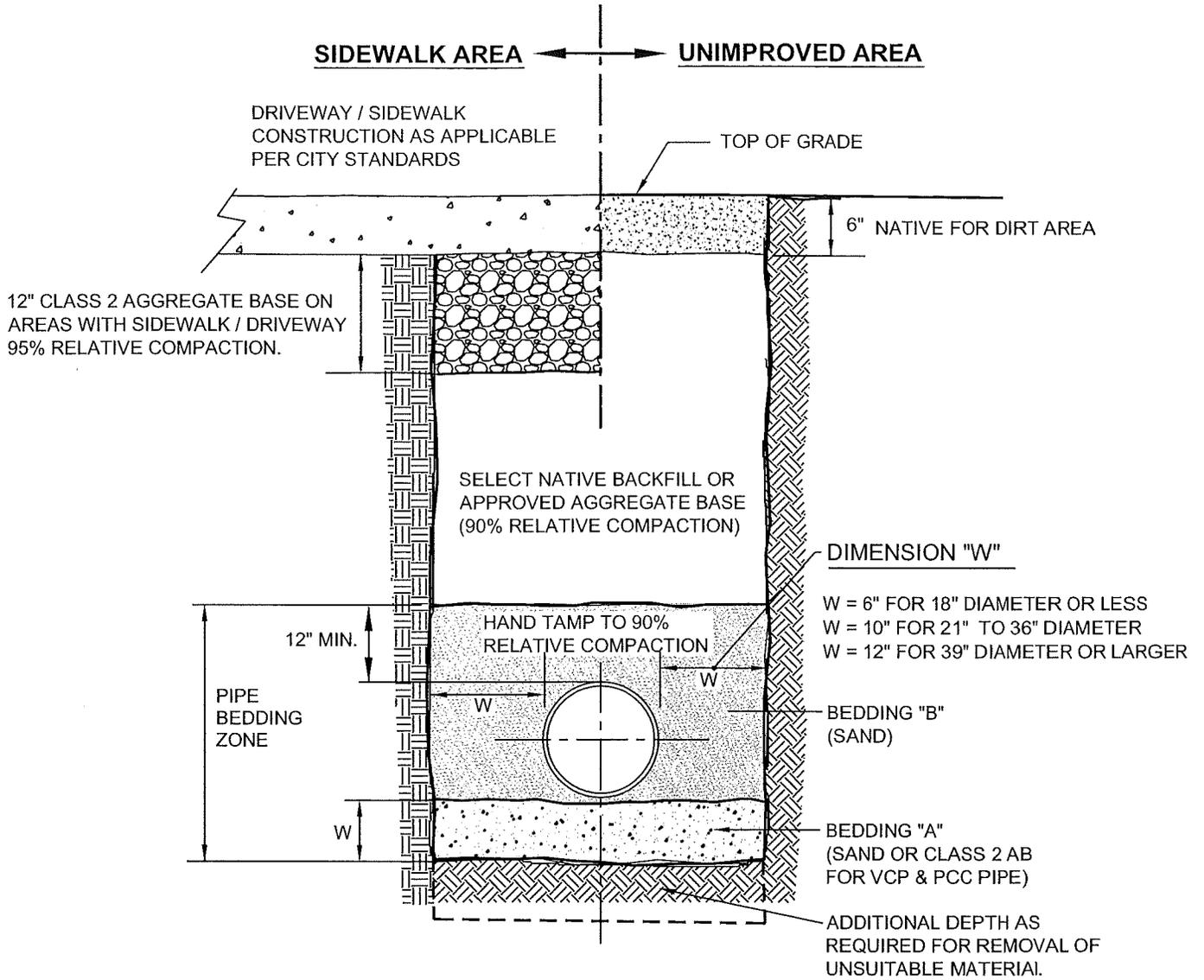
**EXISTING STREET AREAS
TRENCH BACKFILL AND RESURFACING DETAIL**

NOTE:

1. SEE NOTES ON SHEET 3

CITY OF TRACY

	REVIEWED BY: <i>Alhama</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 501 SHEET 1 OF 3
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TYPE 2

N.T.S.

SIDEWALK OR UNIMPROVED AREAS
TRENCH BACKFILL DETAIL

NOTES:

1. SEE NOTES ON SHEET 3

CITY OF TRACY

 <p>TRACY Think Inside the Triangle™</p>	REVIEWED BY: <i>Alhams</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 501 SHEET 2 OF 3
	Res No. 2008-255	DATE:
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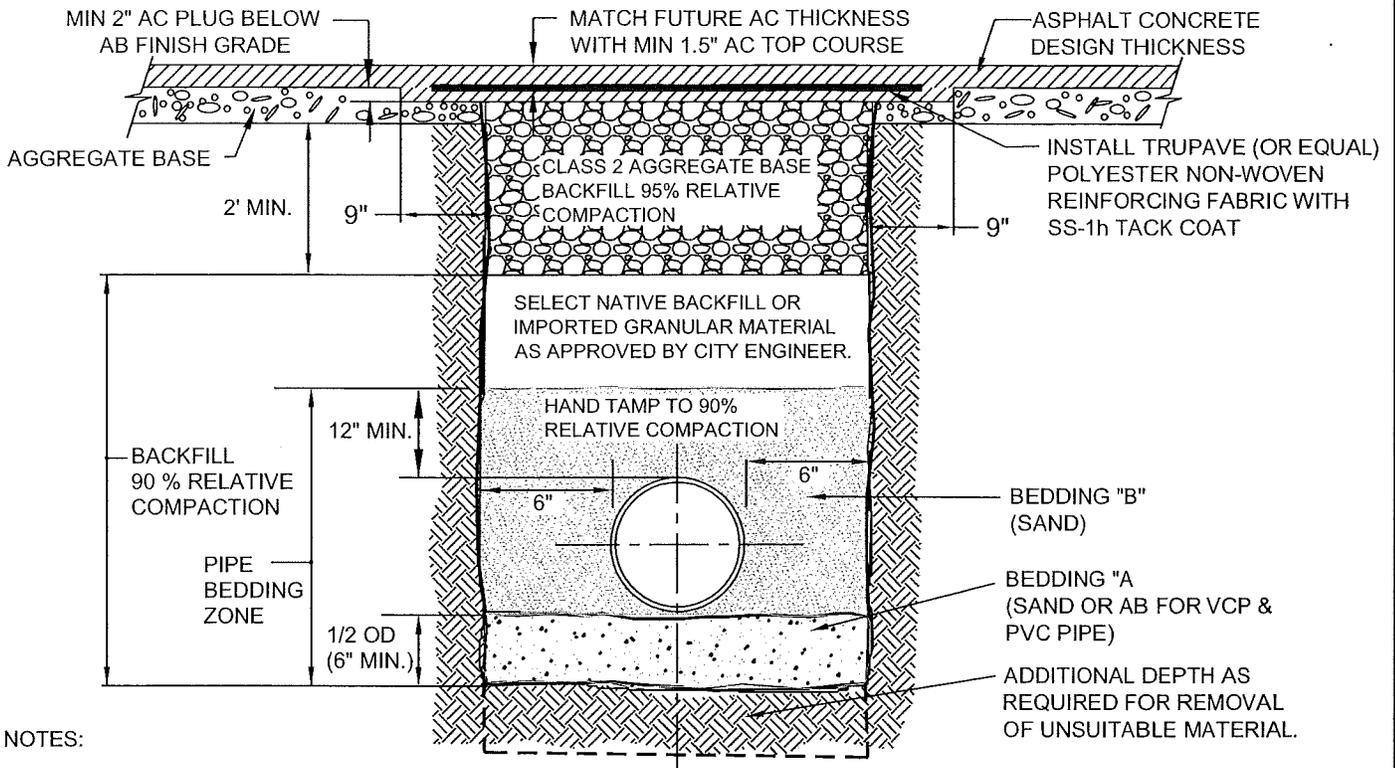
TRENCHING & RESURFACING

NOTES:

1. UNSUITABLE SUB GRADE MATERIAL SHALL BE EXCAVATED AND STABILIZED WITH #3 ROCK (PER ASTM C-33 OR APPROVED EQUAL) OR ONE SACK CEMENT SLURRY AS APPROVED BY THE CITY ENGINEER.
2. BEDDING "A" SHALL BE COMPOSED OF SAND (SAND EQUIVALENT NOT LESS THAN 30). FOR CLAY AND CONCRETE PIPE, CLASS 2 AGGREGATE BASE PER CITY STANDARD SPECIFICATIONS MAY BE USED.
3. BEDDING "B" SHALL BE COMPOSED OF SAND (SAND EQUIVALENT NOT LESS THAN 30).
4. SELECT NATIVE BACKFILL MATERIAL - MATERIAL FROM EXCAVATION, FREE FROM STONES, LUMPS EXCEEDING 3" IN GREATEST DIMENSION, VEGETABLE MATTER, CLAY, OR UNSATISFACTORY MATERIAL.
5. ALL TRENCHES SHALL BE SHORED OR PROTECTED IN ACCORDANCE WITH "OSHA" AND OTHER STATE AND FEDERAL SAFETY CODES, REGULATIONS AND ORDINANCES.
6. PLACEMENT OF BACKFILL SHALL BE IN 12" LIFTS EVENLY PLACED AND MECHANICALLY COMPACTED TO THE RELATIVE DENSITY SPECIFIED. COMPACTION TESTS SHALL BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER. ALL COST RELATED TO THESE TESTS SHALL BE BORNE BY OWNER/CONTRACTOR/UTILITY COMPANY WHEN SUCH TESTS ARE REQUIRED. IF RESULTS OF THESE TESTS DO NOT MEET THE SPECIFIED REQUIREMENTS, BACKFILL SHALL BE EXCAVATED, REPLACED, COMPACTED AND RETESTED. IN CASE OF ONE SACK SLURRY MIX, NO COMPACTION TEST WILL BE REQUIRED. COMPACTION BY JETTING WITHIN THE PIPE BEDDING ZONE MAY BE ALLOWED BY SPECIAL PERMISSION OF THE CITY ENGINEER.
7. INITIAL CUT IN STREET PAVEMENT SHALL BE EQUAL TO THE WIDTH OF THE TRENCH WITH THE OPTION OF BEING JACK HAMMERED OR SAW CUT.
8. FINAL CUT IN STREET PAVEMENT SHALL BE 18" WIDER THAN THE TRENCH WIDTH (9" ON EACH SIDE) AS SHOWN IN THE DETAIL AND SHALL BE MADE BY AN ASPHALT GRINDER OR SAW CUTTING ONLY.
9. ALL TRENCHES SHALL BE BACKFILLED AND TEMPORARILY PAVED OR STEEL PLATED AT THE END OF EACH WORKING DAY.
10. TEMPORARY BITUMINOUS SURFACING (CUTBACK) SHALL BE PLACED AND COMPACTED IMMEDIATELY ABOVE THE TRENCH FOLLOWING BACKFILL COMPACTION AND APPROVAL OF THE CITY ENGINEER. MINIMUM DEPTH OF CUTBACK SHALL BE 2" OR AS SPECIFIED BY THE CITY ENGINEER. CUTBACKS SHALL BE MAINTAINED IN A CONDITION SATISFACTORY TO THE CITY ENGINEER UP UNTIL THE TIME OF FINAL PAVING.
11. FINAL PAVING ABOVE TRENCH SECTION SHALL BE PLACED WITHIN 14 DAYS OF ITS BACKFILL AND COMPACTION. EXTENSION MAY BE GRANTED BY THE CITY ENGINEER DUE TO WEATHER CONDITIONS. DEPTH OF FINAL PAVING SHALL BE 1" GREATER THAN EXISTING PAVEMENT. IN THE EVENT PERMANENT PAVING IS NOT COMPLETED WITHIN 14 DAYS, THE CITY WILL CONSIDER THIS AS INCOMPLETE WORK AND WILL TAKE THE ACTION NECESSARY, IN ACCORDANCE WITH PREVAILING CITY ORDINANCES AND POLICIES.
12. TEMPORARY CUTBACK SHALL BE REMOVED PRIOR TO THE PLACEMENT OF FINAL PAVING. FINAL PAVING SHALL BE PLACED ON UNDISTURBED, PREVIOUSLY INSPECTED AND COMPACTED AGGREGATE BASE OR ONE SACK SLURRY MIX. RECOMPACTION SHALL BE REQUIRED FOR ANY DISTURBED BASE OR SURFACE.
13. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH CITY OF TRACY STANDARD SPECIFICATIONS.
14. FOR A PARALLEL TRENCH LONGER THAN ONE HALF THE LENGTH OF A BLOCK, A SLURRY SEAL SHALL BE REQUIRED ON THE ENTIRE HALF WIDTH OF THE STREET, ON THE TRENCH SIDE, OVER THE ENTIRE LENGTH OF THE BLOCK OR AS DIRECTED BY THE CITY ENGINEER.
15. PROPER TRAFFIC CONTROL AND COVERING OF TRENCHES SHALL BE MAINTAINED IN ACCORDANCE WITH PREVAILING SAFETY AND TRAFFIC CONTROL STANDARDS FOR WORK IN CONSTRUCTION AREAS.
16. NO TRENCH SHALL BE OPENED IN ANY STREET FOR THE PURPOSE OF LAYING PIPES OR CONDUITS MORE THAN SIX HUNDRED (600) FEET AT A TIME.
17. TRENCHING SHALL NOT BE ALLOWED ON ANY STREET WHICH HAS BEEN RECONSTRUCTED OR REPAVED WITHIN THE PAST THREE YEARS NOR ON ANY SLURRY SEALED STREET FOR A PERIOD OF EIGHTEEN (18) MONTHS.
18. 48 HOURS ADVANCE NOTICE SHALL BE REQUIRED FOR ALL CITY INSPECTIONS. CALL THE CITY OF TRACY CONSTRUCTION MANAGEMENT DIVISION AT (209) 831-4600.

CITY OF TRACY

 TRACY <small>Think Inside the Triangle™</small>	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No.	501	
	CITY ENGINEER RCE 37186		SHEET 3 OF 3	
	Res No. 2008-255	DATE:	TRENCHING & RESURFACING	
	Rev:	Rev:		
Rev:	Rev:			



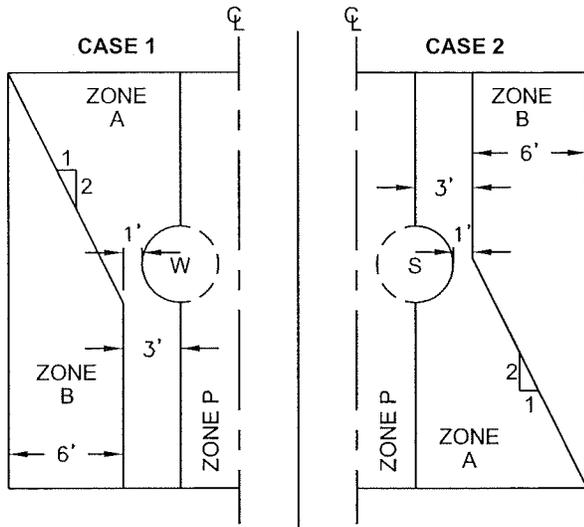
NOTES:

1. BEDDING "A" SHALL BE COMPOSED OF SAND (SAND EQUIVALENT NOT LESS THAN 30). FOR CLAY AND CONCRETE PIPE, CLASS 2 AGGREGATE BASE PER CITY STANDARD SPECIFICATIONS MAY BE USED. BEDDING "B" SHALL BE COMPOSED OF SAND (SAND EQUIVALENT NOT LESS THAN 30).
2. SELECT NATIVE BACKFILL MATERIAL - MATERIAL FROM EXCAVATION, FREE FROM STONES, LUMPS EXCEEDING 3" IN GREATEST DIMENSION, VEGETABLE MATTER, CLAY, OR UNSATISFACTORY MATERIAL.
3. UNSUITABLE SUBGRADE MATERIAL SHALL BE EXCAVATED AND STABILIZED WITH #3 ROCK (PER ASTM C-33 OR APPROVED EQUAL) OR WITH CEMENT SLURRY / CONCRETE AS APPROVED BY THE CITY ENGINEER.
4. ALL TRENCHES SHALL BE SHORED OR PROTECTED IN ACCORDANCE WITH "OSHA" AND OTHER STATE AND FEDERAL SAFETY CODES, REGULATIONS AND ORDINANCES.
5. THE FINAL 2 FEET OF BACKFILLED MATERIAL SHALL BE EITHER AGGREGATE BASE (95% RELATIVE COMPACTION) OR ONE (1) SACK SLURRY MIX.
6. PLACEMENT OF BACKFILL SHALL BE IN 12" LIFTS EVENLY PLACED AND MECHANICALLY COMPACTED TO THE RELATIVE DENSITY SPECIFIED. COMPACTION TESTS SHALL BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER. ALL COST RELATED TO THESE TESTS SHALL BE BORNE BY OWNER/CONTRACTOR/UTILITY COMPANY WHEN SUCH TESTS ARE REQUIRED. IF RESULTS OF THESE TESTS DO NOT MEET THE SPECIFIED REQUIREMENTS, BACKFILL SHALL BE EXCAVATED, REPLACED, COMPACTED AND RETESTED. IN CASE OF ONE SACK SLURRY MIX, NO COMPACTION TEST WILL BE REQUIRED. COMPACTION BY JETTING WITHIN THE PIPE BEDDING ZONE MAY BE ALLOWED BY SPECIAL PERMISSION OF THE CITY ENGINEER.
7. 48 HOURS ADVANCE NOTICE SHALL BE REQUIRED FOR ALL CITY INSPECTIONS. CALL THE CITY OF TRACY CONSTRUCTION MANAGEMENT DIVISION AT (209) 831-4600.
8. PROPER TRAFFIC CONTROL AND COVERING OF TRENCHES SHALL BE MAINTAINED IN ACCORDANCE WITH PREVAILING SAFETY AND TRAFFIC CONTROL STANDARDS FOR WORK IN CONSTRUCTION AREAS.
9. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH CITY OF TRACY STANDARD SPECIFICATIONS.

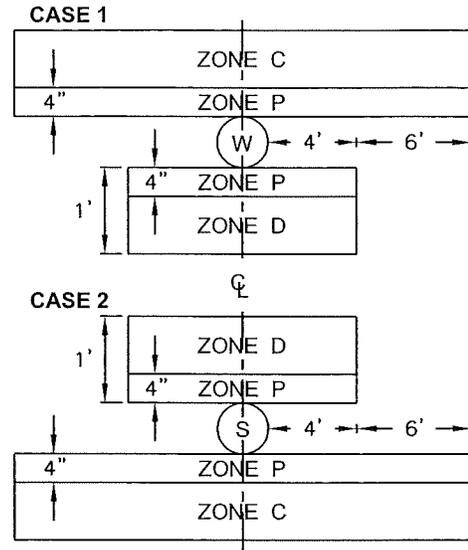
CITY OF TRACY

 TRACY <small>Think Inside the Triangle™</small>	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No.	502	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:	SUBDIVISION TRENCHING AND BACKFILL	
	Rev:	Rev:		
Rev:	Rev:			

**PARALLEL
CONSTRUCTION**



**PERPENDICULAR
CONSTRUCTION**



CASE 1: NEW SEWER BEING INSTALLED

- ZONE A. SEWER LINES PARALLEL TO WATER MAINS SHALL NOT BE PERMITTED IN THIS ZONE WITHOUT APPROVAL FROM THE RESPONSIBLE HEALTH AGENCY AND WATER SUPPLIER.
- B. A SEWER LINE PLACED PARALLEL TO A WATER LINE SHALL BE CONSTRUCTED OF:
 1. EXTRA STRENGTH VITRIFIED CLAY PIPE WITH COMPRESSION JOINTS.
 2. CAST OR DUCTILE IRON PIPE WITH COMPRESSION JOINTS.
 3. REINFORCED CONCRETE PRESSURE PIPE WITH COMPRESSION JOINTS (PER AWWA C302-74).
- C & D. A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF:
 1. DUCTILE IRON PIPE WITH HOT BITUMINOUS COATING AND MECHANICAL JOINTS.
 2. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-74) CENTERED OVER THE PIPE BEING CROSSED.
 3. ANY CONTINUOUS SEWER PIPE OR SLEEVE.
- D ONLY.
 4. ANY SEWER PIPE SEPARATED BY A TEN-FOOT, FOUR-INCH THICK REINFORCED CONCRETE SLAB.

NOTE: ZONE P IS A PROHIBITED ZONE, SEC. 64630(e) CAL. ADMINISTRATIVE CODE, TITLE 22.

CASE 2: NEW WATER MAINS BEING INSTALLED

- ZONE A. NO WATER MAINS PARALLEL TO SEWERS SHALL BE CONSTRUCTED WITHOUT APPROVAL FROM THE HEALTH DEPARTMENT.
- B. IF THE SEWER PARALLELING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE B, REQUIREMENTS, THE WATER MAIN SHALL BE CONSTRUCTED OF :
 1. DUCTILE IRON PIPE WITH HOT BITUMINOUS COATING.
 2. DIPPED AND WRAPPED ONE-FOURTH-INCH-THICK WELDED STEEL PIPE.
 3. REINFORCED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE, (PER AWWA C302-74 OR C301-79 OR C303-70).
- C. IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE C, REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS IN ZONE C AND BE CONSTRUCTED OF :
 1. (SAME AS B 1-3).
- D. IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE REQUIREMENTS FOR ZONE D, CASE 1, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FOUR FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF : (SAME AS B 1-3).

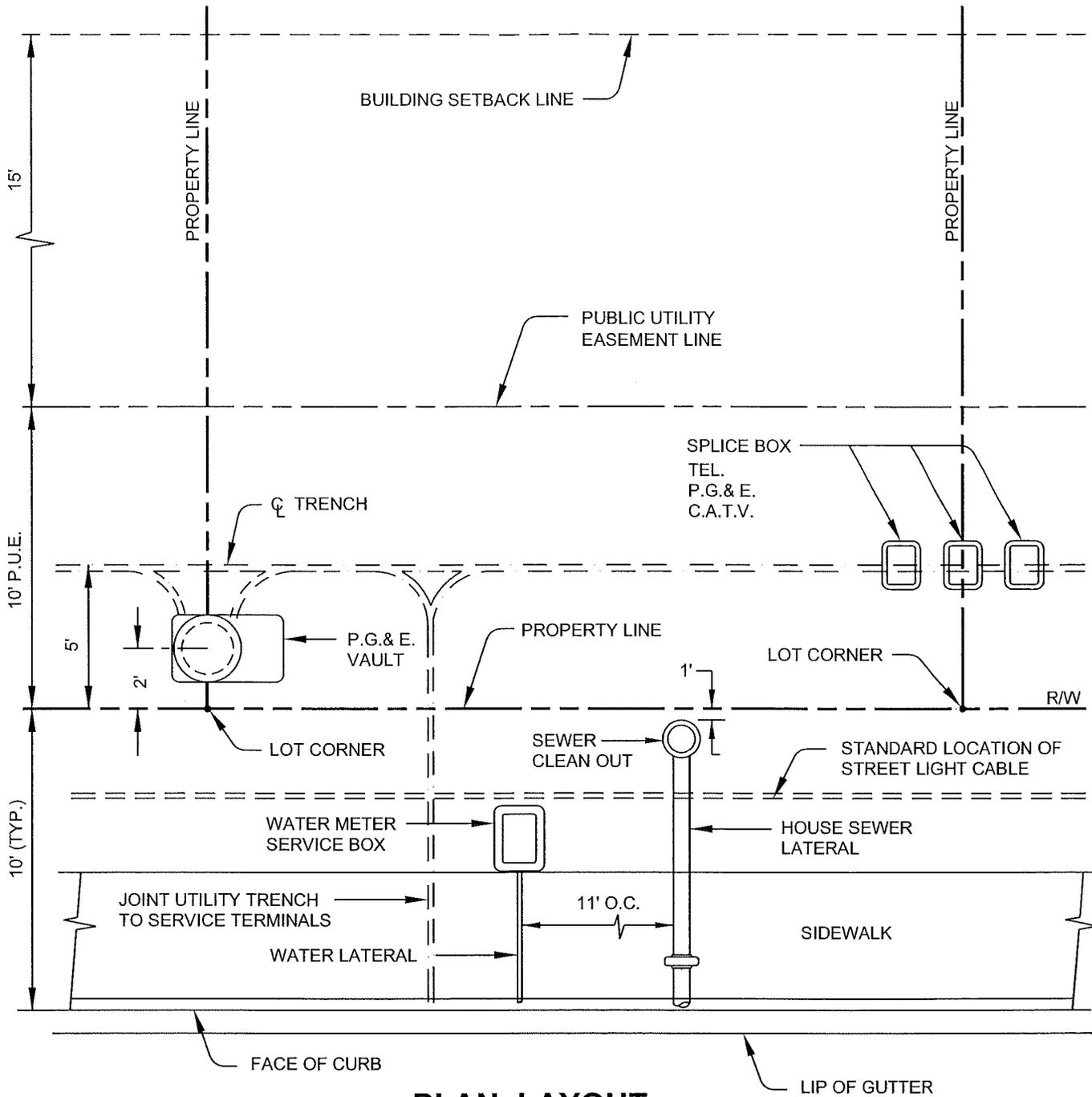
CITY OF TRACY



REVIEWED BY:	<i>Alhams</i>	
CITY ENGINEER	RCE	37186
Res No.	2008-255	DATE:
Rev:		Rev:
Rev:		Rev:

STANDARD PLAN No. **506**

WATER / SEWER SEPARATION REQUIREMENTS



PLAN LAYOUT

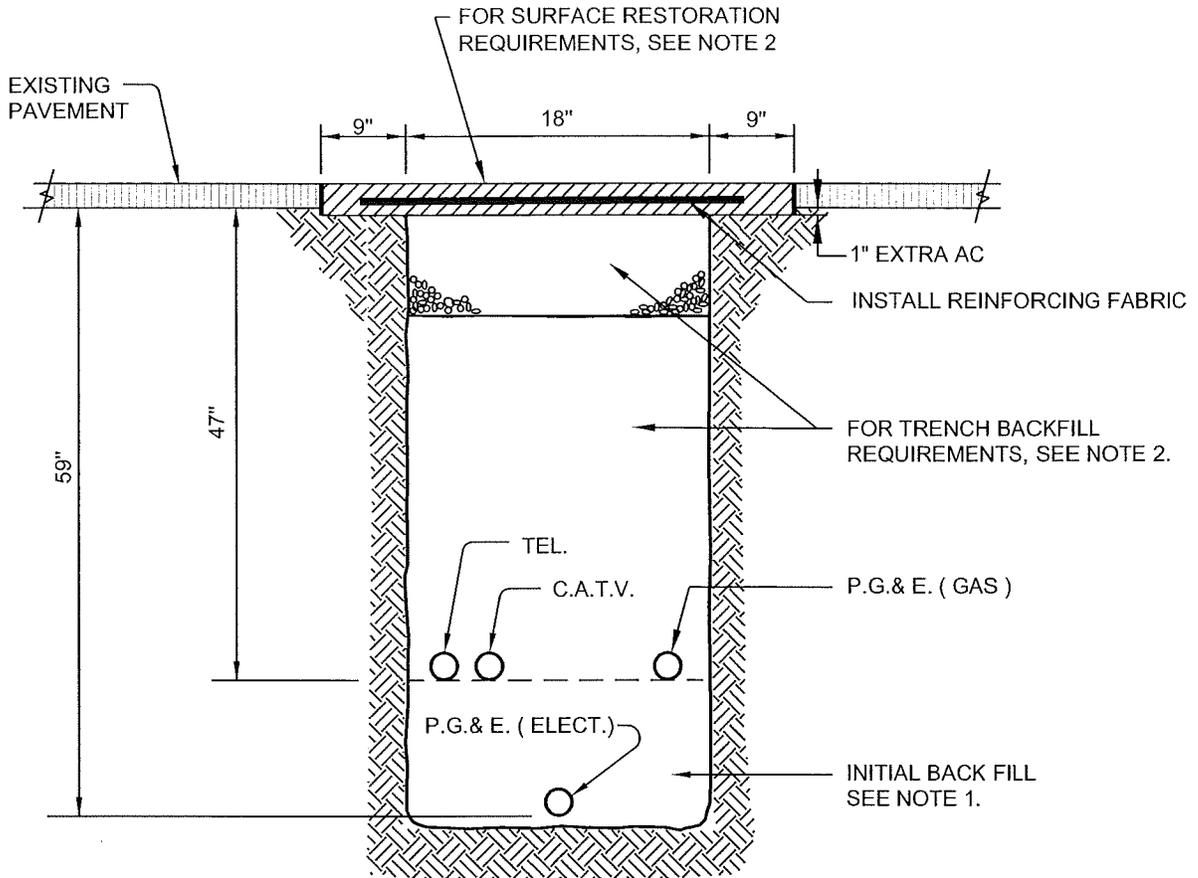
N.T.S.

NOTES:

1. FOR BLANK CONDUIT INSTALLATIONS A 1/2" DIAMETER STEEL ROD 18" LONG SHALL BE BURIED 24" BELOW THE GROUND TO MARK CONDUIT LOCATION.

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i> CITY ENGINEER RCE 37186	STANDARD PLAN No. 560
	Res No. 2008-255 DATE:	UTILITY LOCATIONS
	Rev:	
	Rev:	



TRENCH DETAIL

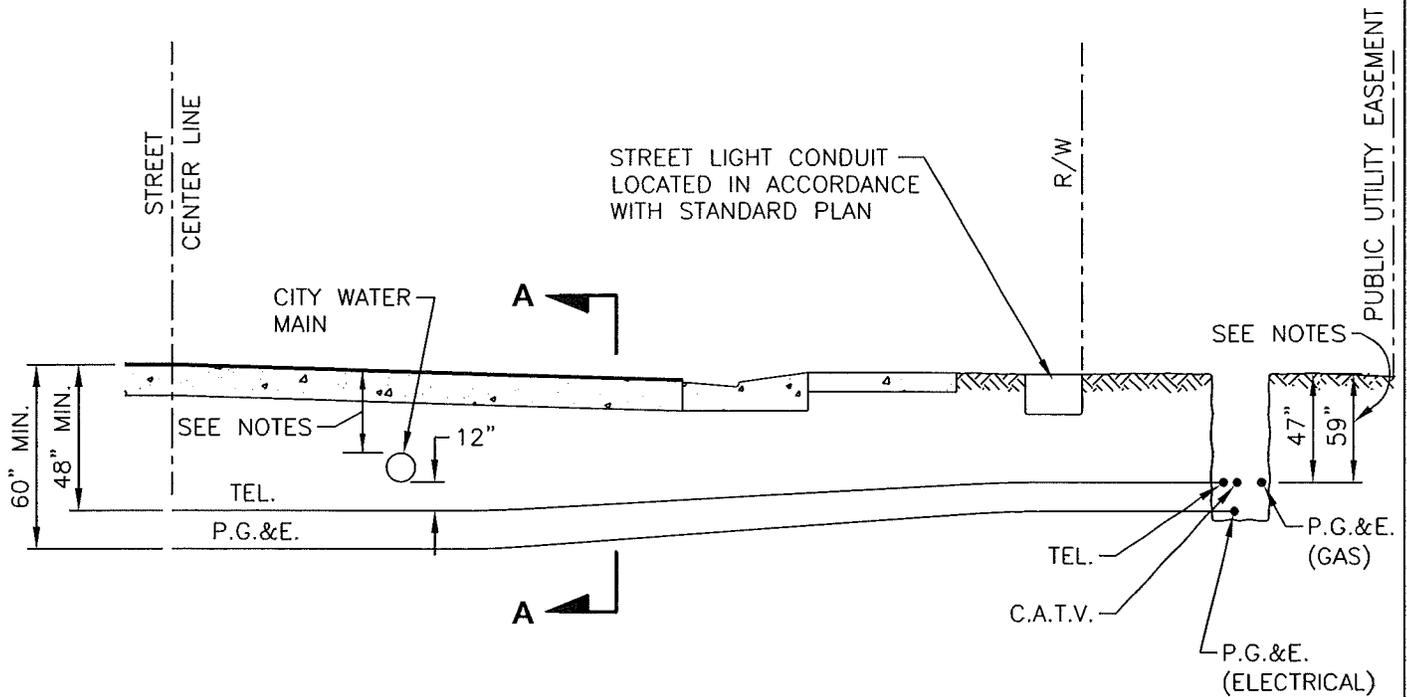
N.T.S.

NOTES:

1. WHEN MULTIPLE DUCTS ARE IN A COMMON TRENCH, BACK FILL MATERIAL SHALL CONFORM TO CITY OF TRACY STANDARDS.
2. PAVEMENT REPLACEMENT AND TRENCH BACKFILL SHALL CONFORM TO STANDARD PLANS FOR " TRENCHING AND RESURFACING ". (STANDARD PLAN NO. 501)
3. A SINGLE UTILITY MAY BE PLACED IN 4" MIN. WIDE ROCKWHEEL TRENCH IN EXISTING STREETS. BACKFILL FOR 4" WIDE TRENCH SHALL CONSIST OR ONE SACK SLURRY MIX. SURFACE RESTORATION WITHIN PAVED AREAS SHALL STILL REQUIRE 9" TEE TRENCH.
4. TEMPORARY PAVEMENT SHALL BE PLACED AND MAINTAINED AT THE LEVEL OF THE ADJACENT ROADWAY AT ALL TIMES UNTIL FINAL PAVEMENT REPLACEMENT IS COMPLETED.
5. 48 HOURS WRITTEN NOTICE IS REQUIRED PRIOR TO COMMENCEMENT OF WORK. CALL CITY OF TRACY CONSTRUCTION MANAGEMENT DIVISION AT (209) 831-4600

CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No.	561	
	CITY ENGINEER RCE 37186			
	Res No. 2008-255	DATE:		UTILITY CROSSING TRENCH SECTION
	Rev:	Rev:		
Rev:	Rev:			



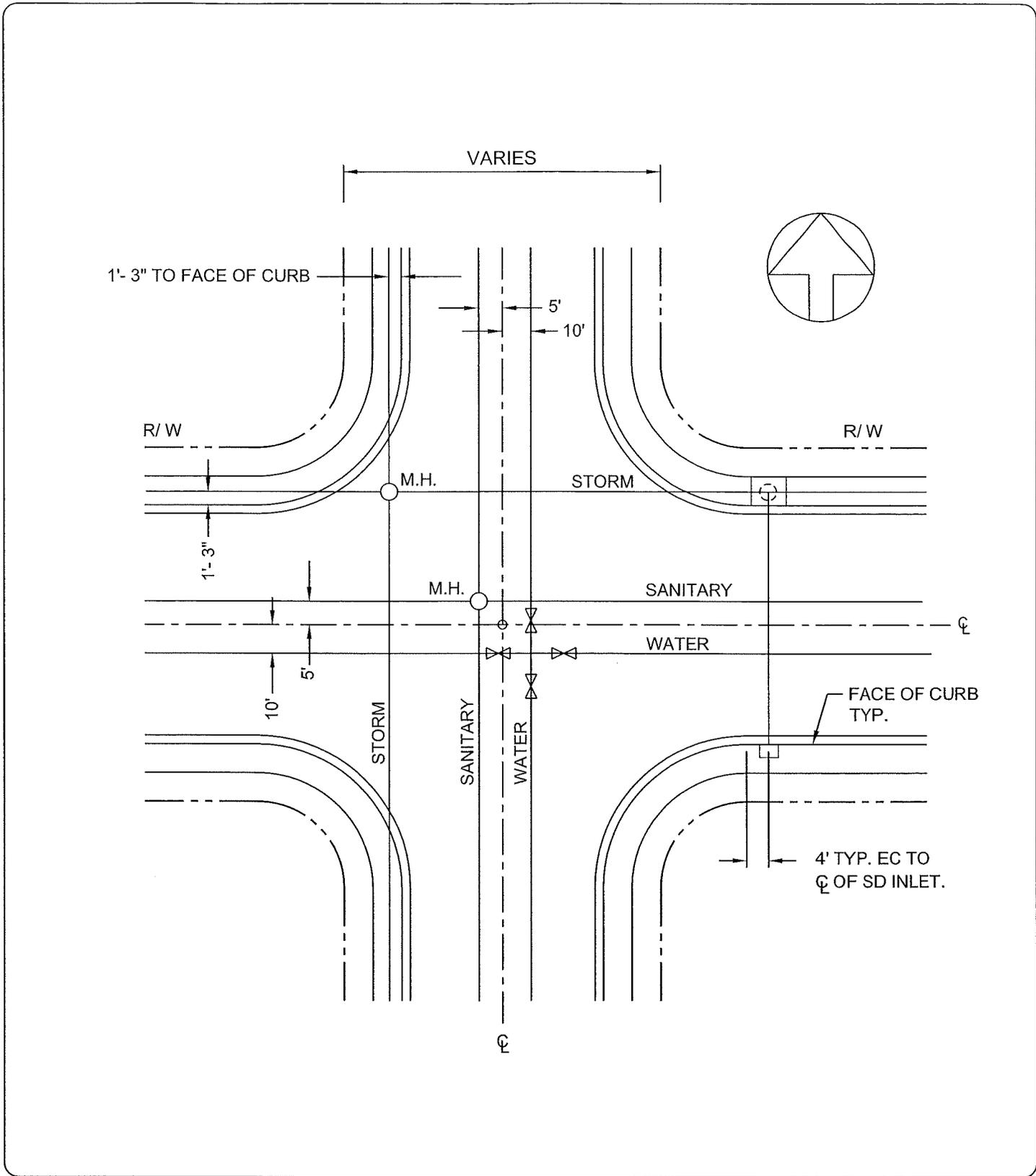
TYPICAL SECTION

NOTES:

1. SEE CITY STANDARD PLAN SP 561 FOR "UTILITY CROSSING TRENCH SECTION"
2. FOR INDUSTRIAL STREET SECTIONS, DEPTH OF SERVICES AT PROPERTY LINE SHALL BE DETERMINED BY INDIVIDUAL SEWER AND STORM DRAIN DESIGN.
3. THE MINIMUM COVER FOR CITY WATER MAINS UP TO AND INCLUDING 10" SHALL BE 36". FOR MAINS LARGER THAN 10", THE MINIMUM COVER SHALL BE 48".

CITY OF TRACY

	REVIEWED BY: <i>Kelham</i>		STANDARD PLAN No. 562
	CITY ENGINEER RCE 37186		UTILITY CROSSINGS
	Res No. 2008-255	DATE:	
	Rev:	Rev:	
	Rev:	Rev:	



CITY OF TRACY

	REVIEWED BY: <i>Alhams</i>	STANDARD PLAN No. 563
	CITY ENGINEER RCE 37186	
	Res No. 2008-255	DATE:
	Rev:	Rev:
	Rev:	STORM, SEWER & WATER LOCATIONS