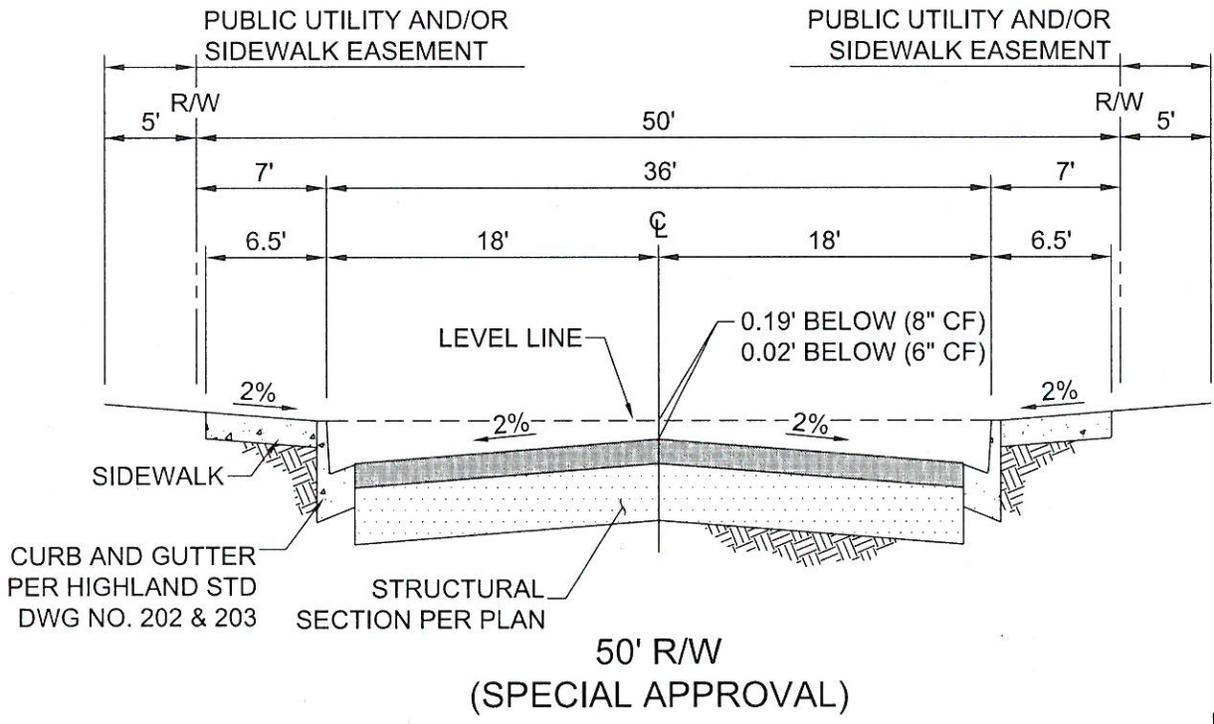
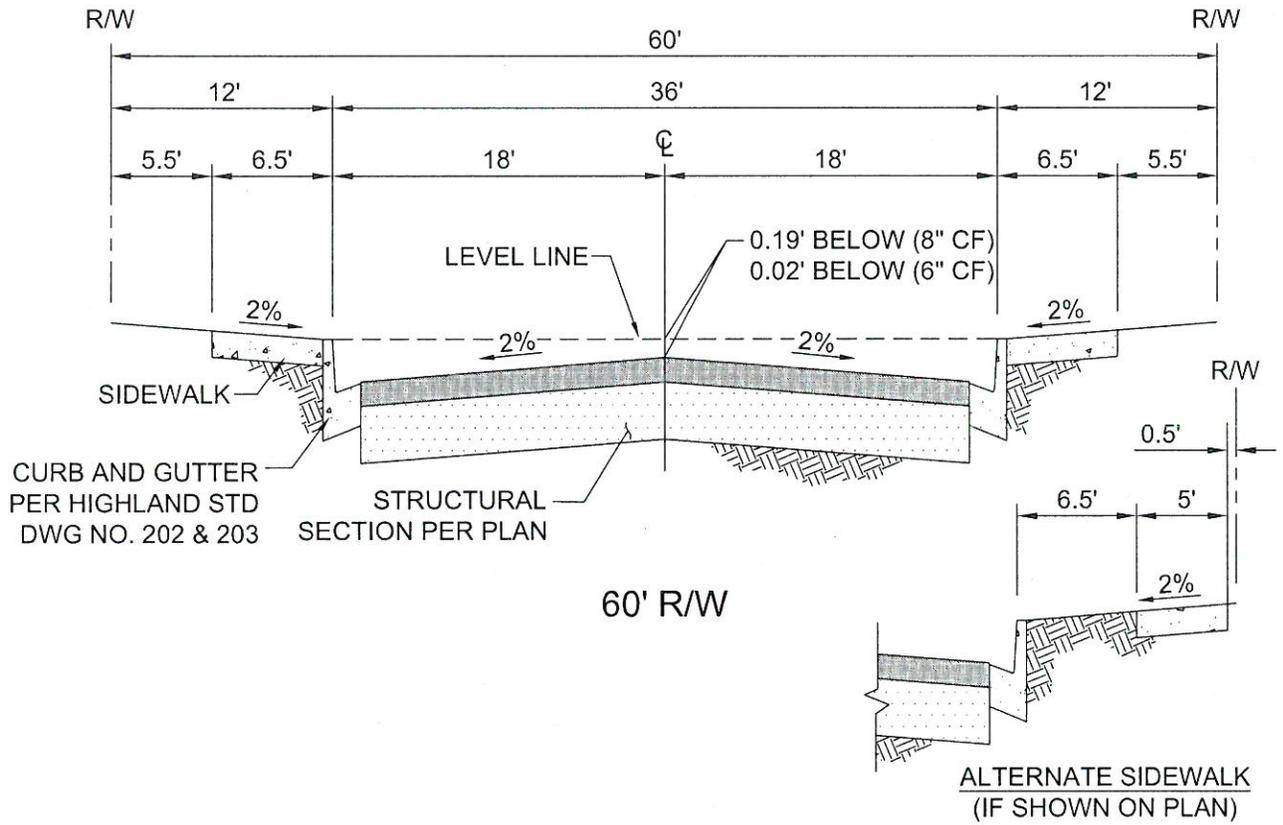


19.0 STANDARD DRAWINGS

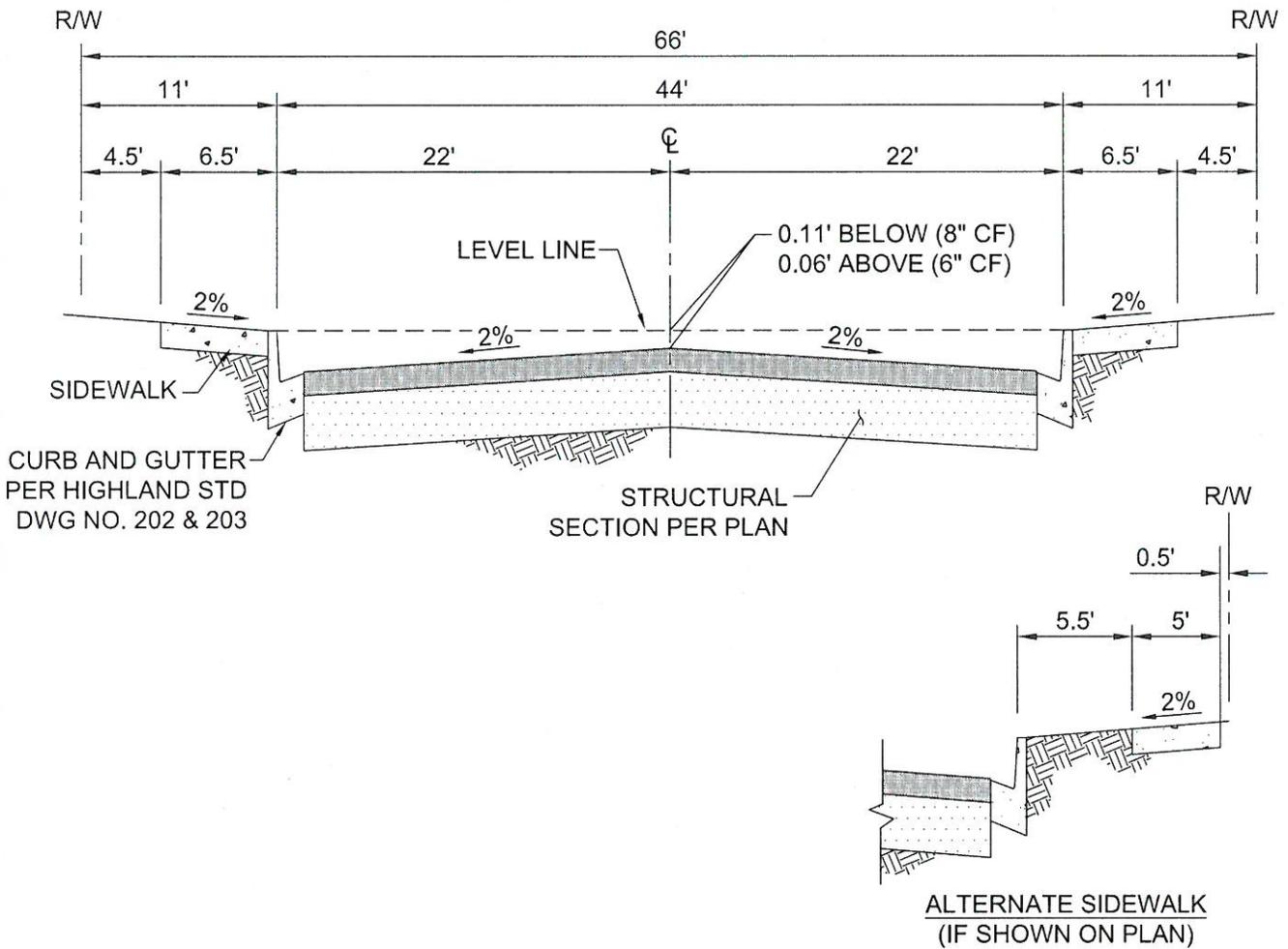
INDEX TO STANDARD DRAWINGS

100	Street Layout Standards	Drawing No.
	Local Street Typical Section	101
	Collector Street Typical Section	102
	Special Collector Street Typical Section	103
	Secondary Highway Typical Section	104
	Major Highway Typical Section	105
	Median Treatment	107
	Recommended Utility Location	108
	Curb Return and Right-of-Way Cut-Off	109
	Bus Bay At Intersection	110A
	Bus Bay Mid-Block	110B
	Bus Bay Typical Section	110C
	Right Turn Lane	111



N.T.S

				CITY OF HIGHLAND	
Mark	Revision	By	Date	LOCAL STREET TYPICAL SECTION	
Approved: <i>Ernest Wong</i> Date: <i>9-6-16</i> Ernest Wong, Public Works Director/City Engineer					



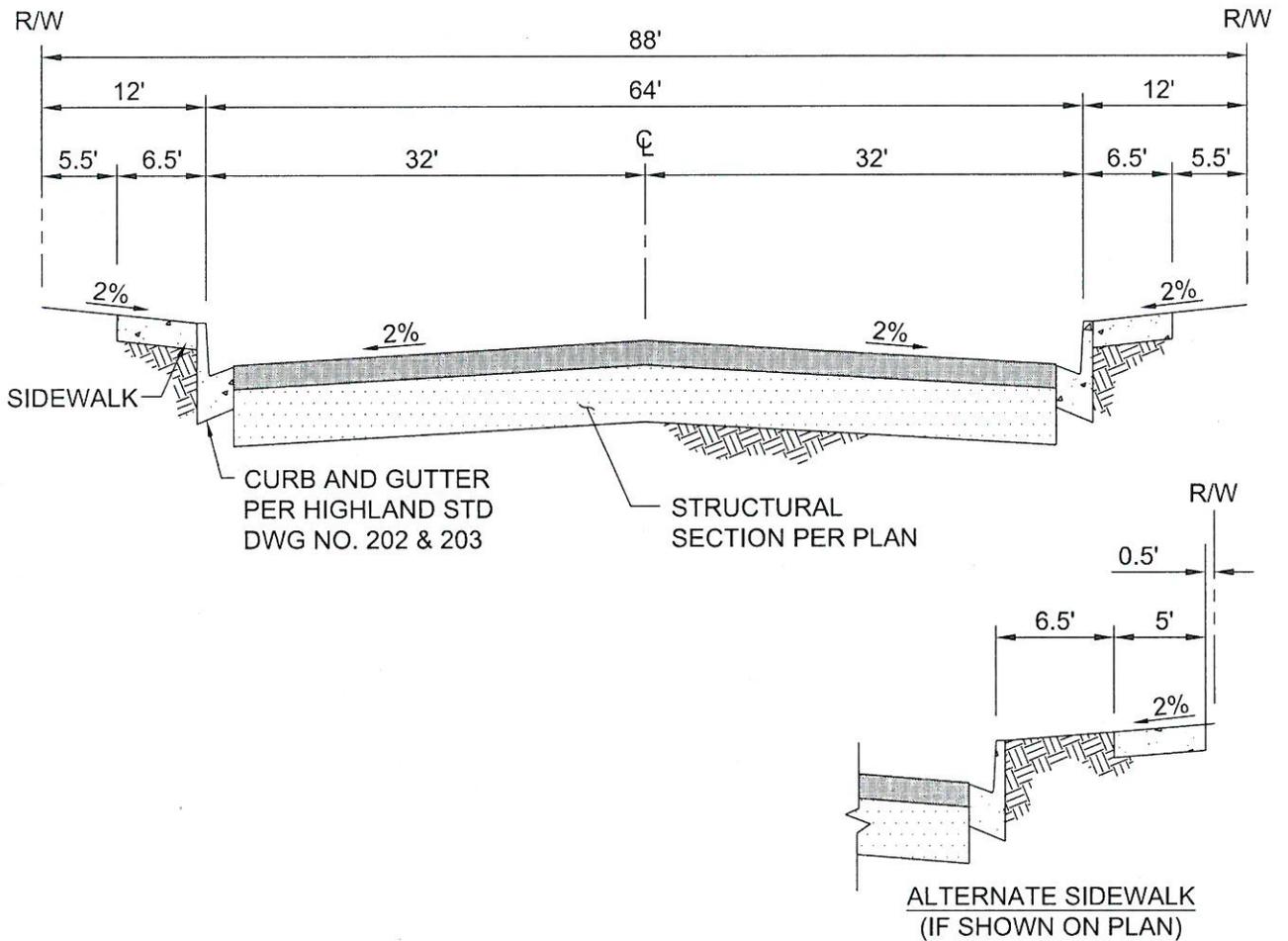
CURB AND GUTTER
PER HIGHLAND STD
DWG NO. 202 & 203

STRUCTURAL
SECTION PER PLAN

ALTERNATE SIDEWALK
(IF SHOWN ON PLAN)

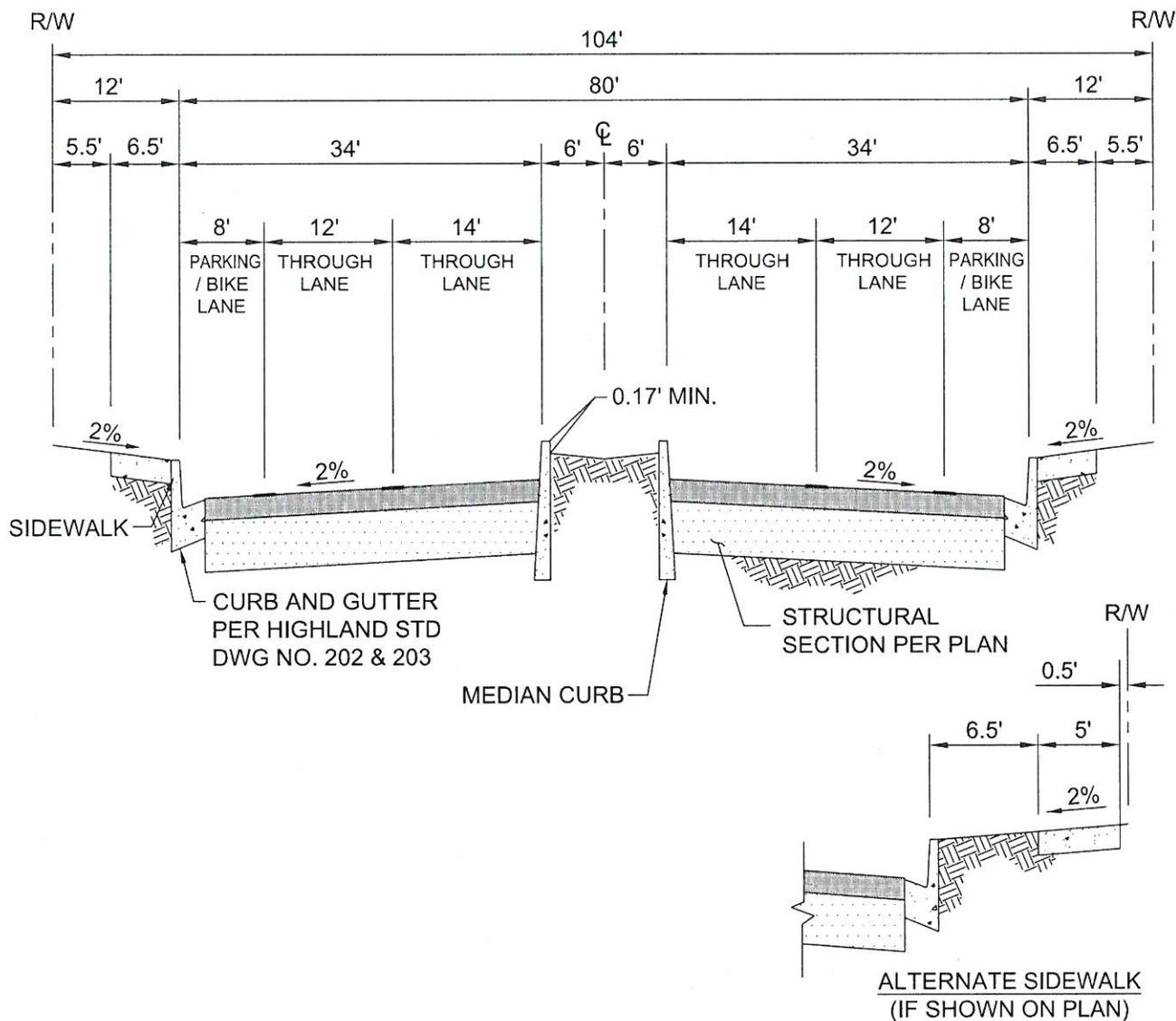
N.T.S

				CITY OF HIGHLAND	
Mark	Revision	By	Date	COLLECTOR STREET TYPICAL SECTION	
Approved: <u><i>Ernest Wong</i></u> Date: <u>9-6-16</u> Ernest Wong, Public Works Director/City Engineer					



N.T.S

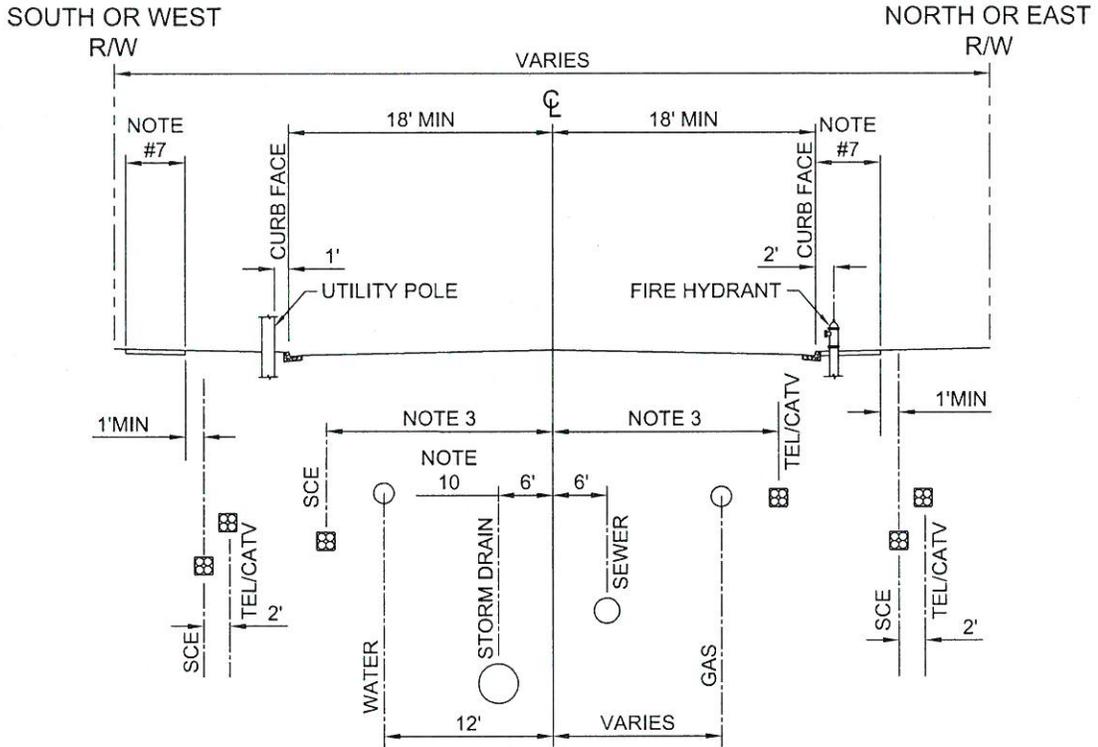
				CITY OF HIGHLAND	
Mark	Revision	By	Date	SECONDARY HIGHWAY TYPICAL SECTION	
Approved: <i>Ernest Wong</i> Date: <u>9-6-16</u> Ernest Wong, Public Works Director/City Engineer					



NOTE:
 DRAINAGE FACILITIES SHALL BE PROVIDED IF STORM DRAIN IS AVAILABLE TO DEWATER RAISED MEDIAN.

N.T.S

				CITY OF HIGHLAND	
Mark	Revision	By	Date	MAJOR HIGHWAY TYPICAL SECTION	
Approved: <i>Ernest Wong</i> Date: <i>9-6-16</i> Ernest Wong, Public Works Director/City Engineer					



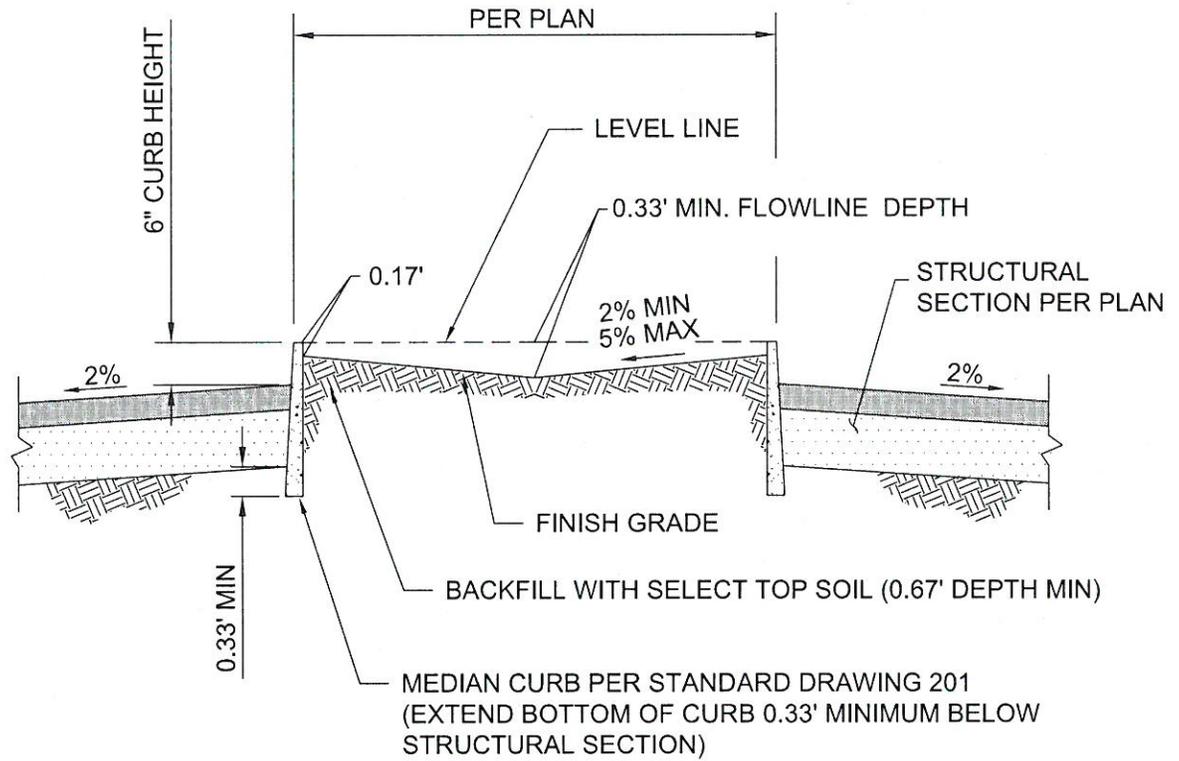
RECOMMENDED CONSTRUCTION ORDER	MINIMUM DEPTH OF COVER
1 STORM DRAIN	VARIES
2 SEWER	84"
3 SCE	48"
4 TEL/CATV	30"
5 CURB AND GUTTER	-
6 WATER	42"
7 GAS	36"
8 PAVING	-

NOTES:

- WHERE ULTIMATE STREET IMPROVEMENTS ARE TO BE CONSTRUCTED, MINIMUM COVER OF THE UTILITY LINES MAY BE VARIED TO FACILITATE INSTALLATION.
- THE UTILITY COMPANIES SHALL MAKE EVERY EFFORT TO LOCATE THEIR FACILITIES IN THE RECOMMENDED LOCATIONS, PARTICULARLY IN NEW SUBDIVISIONS.
- SCE, TELEPHONE & CATV UTILITIES MAY USE A COMMON TRENCH. ALTERNATIVE LOCATION MAY BE EITHER THE EDISON POSITION OR THE TELEPHONE POSITION, VARYING BETWEEN 3' FROM THE CURB FACE TO 15' FROM THE CENTERLINE.
- SURFACE OF VAULT OR MANHOLE MUST MATCH PAVEMENT OR PARKWAY GRADES.
- REPAIR OF TRENCHES AND REPLACEMENT OF PAVED SURFACING IN EXISTING CITY STREETS SHALL BE IN ACCORDANCE WITH CITY OF HIGHLAND STANDARD DRAWING No. 220A.
- WHENEVER POSSIBLE, MANHOLE COVERS SHALL NOT BE PLACED WITHIN THE SIDEWALK.
- SIDEWALK LOCATION AND WIDTH VARIES PER PLAN AND STANDARD DRAWING No. 208.
- STANDARD SEWER LINE LOCATION IS 6' EAST OR NORTH OF CENTERLINE OF STREET.
- STANDARD WATER LINE LOCATION IS 12' WEST OR SOUTH OF STREET CENTERLINE.
- STANDARD STORM DRAIN LOCATION IS 6' WEST OR SOUTH OF STREET CENTERLINE. STORM DRAIN MUST KEEP PROPER CLEARANCE FROM WATER LINE IN ACCORDANCE WITH DEPARTMENT OF HEALTH SERVICES GUIDANCE CRITERIA FOR THE SEPARATION OF WATER MAINS AND NON-POTABLE PIPELINES.

N.T.S

CITY OF HIGHLAND			
△	Revision	By	Date
Mark			
Approved: <i>Ernest Wong</i> Date: <i>7-6-16</i>			RECOMMENDED UTILITY LOCATION
Ernest Wong, Public Works Director/City Engineer			Standard Drawing No. 108



NOTES:

1. DRAINAGE FACILITIES SHALL BE PROVIDED TO DEWATER RAISED MEDIAN.
2. EARTHEN MOUNDING SHALL BE RESTRICTED AS REQUIRED FOR LINE OF SITE
3. LINE OF SIGHT EXHIBIT REQUIRED DURING LANDSCAPING DESIGN REVIEW.

N.T.S.

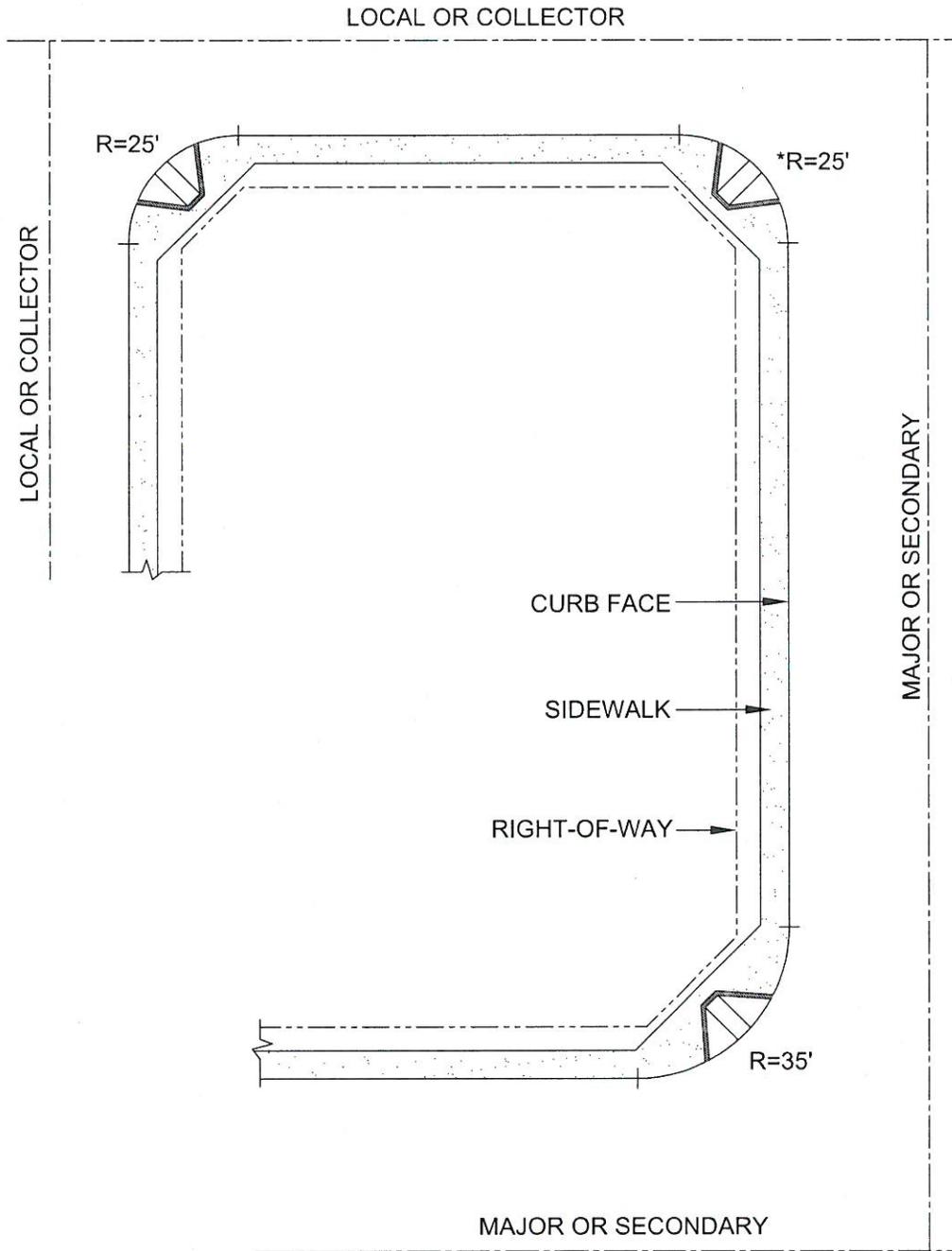
CITY OF HIGHLAND			
△	Revision	By	Date
Approved:	<i>Ernest Wong</i>		Date: 9-6-16
Ernest Wong, Public Works Director/City Engineer			Standard Drawing No. 107

CITY OF HIGHLAND

MEDIAN TREATMENT

Standard Drawing No.

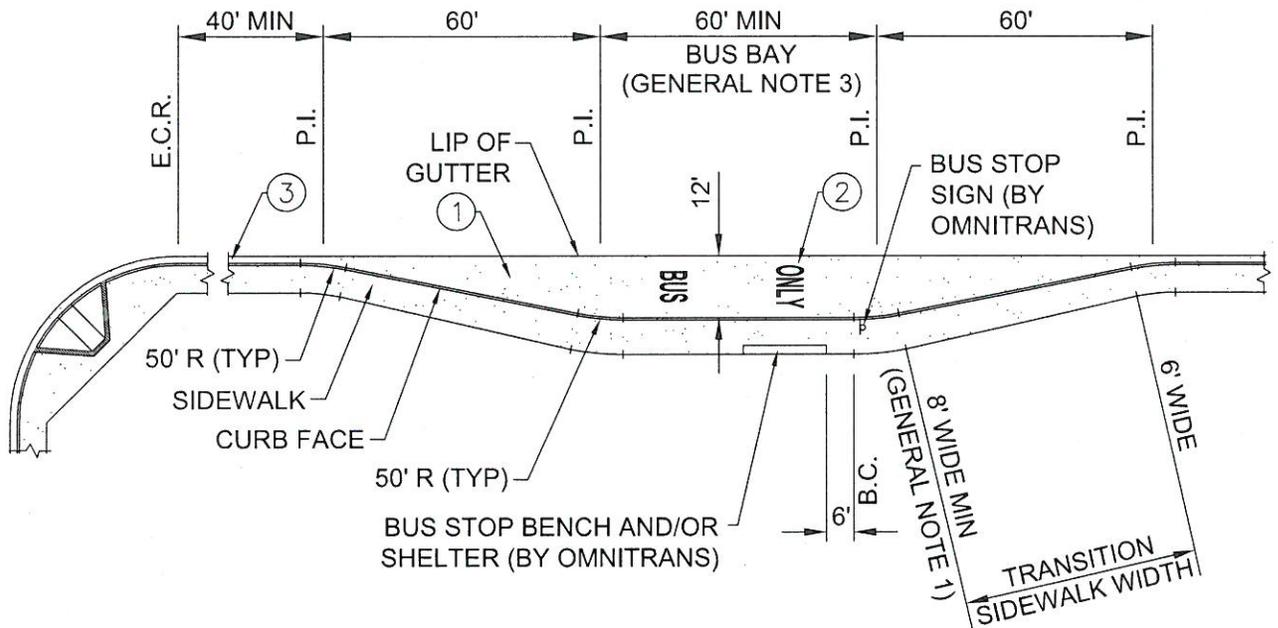
107



* A 35' RADIUS CURB RETURN MAY BE UTILIZED TO PROVIDE TRUCK ACCESS TO COMMERCIAL PROJECTS, AS APPROVED BY THE CITY ENGINEER.

N.T.S

CITY OF HIGHLAND			
△			
Mark	Revision	By	Date
Approved: <i>Ernest Wong</i> Ernest Wong, Public Works Director/City Engineer		Date: <i>9-6-16</i>	
CURB RETURN AND RIGHT-OF-WAY CUT-OFF			Standard Drawing No. 109



CONSTRUCTION NOTES:

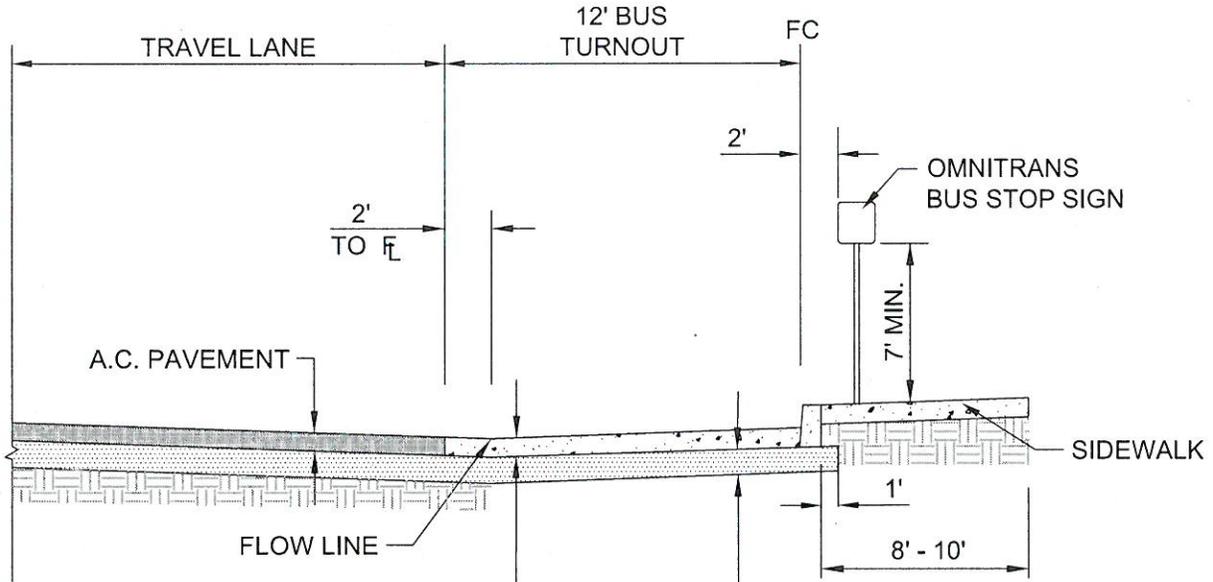
- ① 12' WIDE BUS PAD - 3000 PSI PCC - 0.75' THICKNESS WITHOUT REBAR OR 0.67' THICKNESS WITH #3 REBAR @ 18" OC
- ② PAVEMENT MARKINGS "BUS" "ONLY" PER CALTRANS STANDARD A20E
- ③ PAINT CURB RED AND POST "NO PARKING" FOR A DISTANCE OF 40' MINIMUM AHEAD OF BUS BAY.

GENERAL NOTES:

- 1. BUS STOPS SHALL PROVIDE FOR FRONT AND REAR DOOR WHEELCHAIR LOADING IN CONFORMANCE WITH OMNITRANS STANDARDS (LATEST EDITION).
- 2. BUS STOP SIGN, SHELTER AND/OR BENCH (BY OMNITRANS).
- 3. BAY LENGTH SHALL BE EXTENDED TO 140' WHERE MULTI-BERTH ACCOMMODATIONS ARE REQUIRED.

N.T.S.

△				CITY OF HIGHLAND
Mark	Revision	By	Date	BUS BAY AT INTERSECTION
Approved: <i>Ernest Wong</i> Date: <i>7-6-16</i> Ernest Wong, Public Works Director/City Engineer				Standard Drawing No. 110A

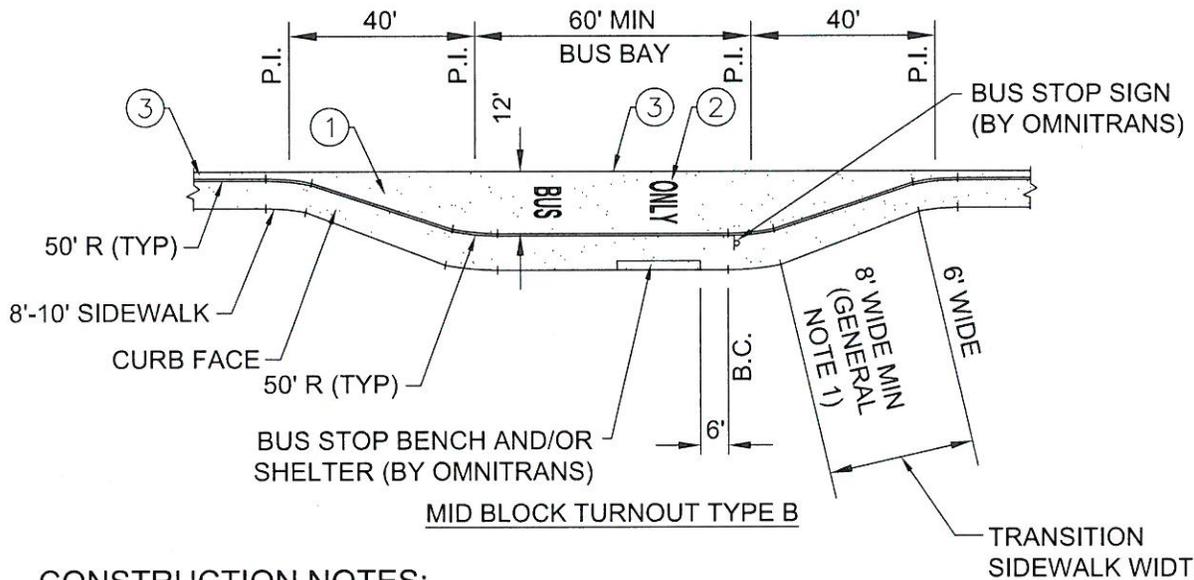
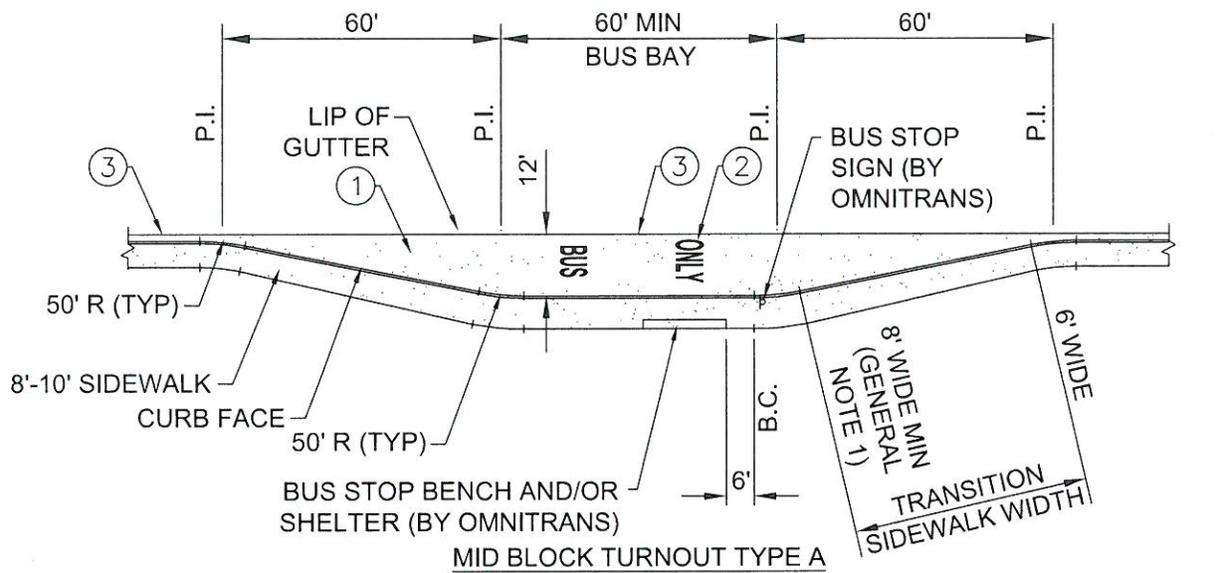


12' WIDE BUS PAD - 3000 PSI P.C.C. PAVEMENT, 0.75' DEEP WITHOUT REBAR, OR 0.67' DEEP WITH #3 REBAR @ 18" ON CENTER.

6" TO 10" AGGREGATE BASE DEPENDING ON LOCAL SOIL CONDITIONS (COMPACT SUB-GRADE TO 95% RELATIVE DENSITY).

N.T.S

				CITY OF HIGHLAND	
				BUS BAY TYPICAL SECTION	
Mark	Revision	By	Date	Approved: <i>Ernest Wong</i> Date: 9-6-16 Ernest Wong, Public Works Director/City Engineer	



CONSTRUCTION NOTES:

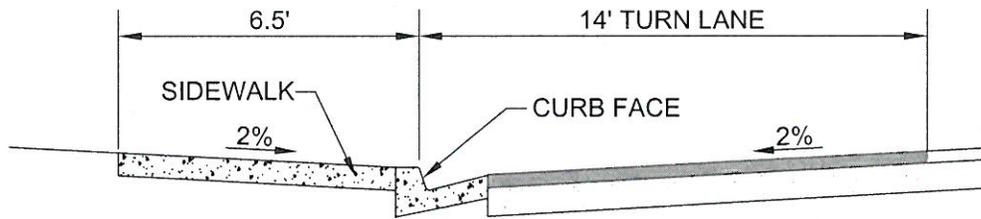
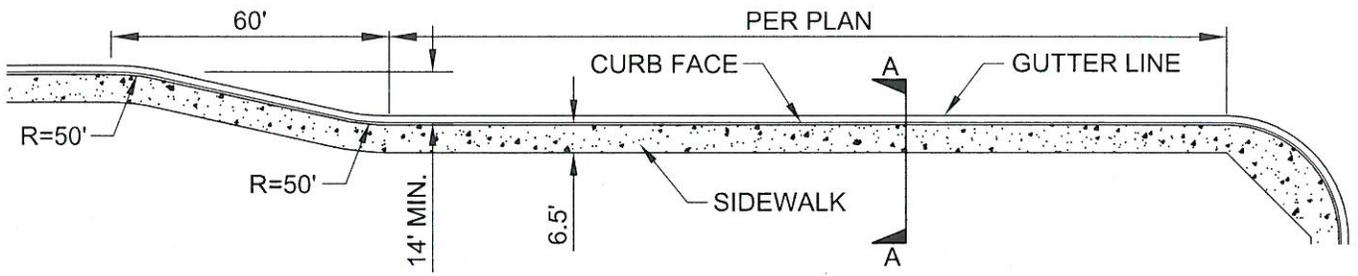
- ① 12' WIDE BUS PAD - 3000 PSI PCC - 0.75' THICKNESS WITHOUT REBAR OR 0.67' THICKNESS WITH #3 REBAR @ 18" OC.
- ② PAVEMENT MARKINGS "BUS" "ONLY" PER CALTRANS STANDARD A20E (OPTIONAL).
- ③ PER CALTRANS STANDARD PLAN A20D, DETAIL 38A (OPTIONAL).

GENERAL NOTES:

1. BUS STOPS SHALL PROVIDE FOR FRONT AND REAR DOOR WHEELCHAIR LOADING IN CONFORMANCE WITH OMNITRANS STANDARDS (LATEST EDITION).
2. BUS STOP SIGN, SHELTER AND/OR BENCH (BY OMNITRANS).
3. BAY LENGTH SHALL BE EXTENDED TO 140' WHERE MULTI-BERTH ACCOMMODATIONS ARE REQUIRED.

N.T.S

△				CITY OF HIGHLAND	
Mark	Revision	By	Date	BUS BAY MID-BLOCK	
Approved: <i>Ernest Wong</i> Date: <i>9-6-16</i> Ernest Wong, Public Works Director/City Engineer					



SECTION A-A

N.T.S

CITY OF HIGHLAND			
△			
Mark	Revision	By	Date
Approved: <i>Ernest Wong</i> Ernest Wong, Public Works Director/City Engineer		Date: <i>9-6-16</i>	RIGHT TURN LANE
			Standard Drawing No. 111