

**UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA**

**VOLUME I - YEAR 2002 REVISIONS**

<b><u>DRAWING NUMBER AND TITLE</u></b>	<b><u>PAGE NUMBER(S)</u></b>	<b><u>NATURE OF CHANGE</u></b>	<b><u>EFFECTIVE DATE</u></b>
501 Typical Underground Utility Locations in Residential Streets with 60 Feet or Less Right-of-way	121	Revision to utility placement under sidewalk; drawing applicable to residential streets on specified width.	4/1/02
411 Drop Inlet Type "A"	111	Correction to drawing reference.	5/1/02
412 Drop Inlet Type "B"	112	"	"
413 Drop Inlet Type "C"	113	"	"
414 Drop Inlet Type "D"	114	"	"
234.2 Bus Stop Loading Pad and Optional Ramp	40.2	Revision to clarify pad area and sidewalk ramp requirements.	7/1/02
206 Local Residential Urban Area Street Section (City of Henderson, City of Boulder City and City of Mesquite)	12	Deletion of cross sections for 39 and 48 foot roadways.	8/1/02
213 Hammerhead (Clark County and City of Mesquite Only)	19	Revision to remove curb painting requirement for Clark County.	"
221.1 Channelized Median Detail for Commercial Driveways or Intersecting Streets	27.1	New Drawing. Median to restrict right turn and thru movements.	10/1/02
301.1 Streetlight Locations at Intersections - 100' or Greater/100' or Greater Right-of-way (Clark County Only)	61.1	Correction to drawing references.	"
302.1 Streetlight Locations at Intersections - 100' or Greater/80' Right-of-way (Clark County Only)	62.1	Correction to drawing references.	"

Revised December 2002

**FOREWORD**

**UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION,  
OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA  
VOLUME I**

The following participating entities of the Clark County, Nevada area have adopted these standard drawings.

- CITY OF LAS VEGAS  
Adopted by City Council action ..... November 4, 1987
- CITY OF HENDERSON  
Adopted by City Council action ..... October 20, 1987
- CITY OF NORTH LAS VEGAS  
Adopted by City Council action ..... November 4, 1987
- CITY OF BOULDER CITY  
Adopted by City Council action ..... January 26, 1988
- CITY OF MESQUITE  
Adopted by City Council action ..... January 26, 1988
- CLARK COUNTY  
Adopted by Board action ..... April 1998
- REGIONAL STREET AND HIGHWAY COMMISSION  
Adopted by Commission Action ..... October 8, 1987

The Uniform Standard Drawings for Public Works Construction may be revised by issuance of revisions or supplements to correct errors and omissions found in these drawings and to reflect advanced thinking and the changing technology of the construction industry. Each revision will supersede any previous pertinent drawing. Upon approval by the Regional Transportation Commission, revisions will be posted to the RTC website, [www.rtcsonthernnevada.com](http://www.rtcsonthernnevada.com), on the first day of the month following the meeting. **This volume contains all revisions through December 2002.**

To implement this end a Specifications Committee has been established as a permanent organization to continually study and recommend changes to the standard drawings. Interested parties may address suggested changes and questions to the Regional Transportation Commission, 600 South Grand Central Parkway, Suite 350, Las Vegas, Nevada, 89106-4512.

UNIFORM STANDARD DRAWINGS, CLARK COUNTY AREA

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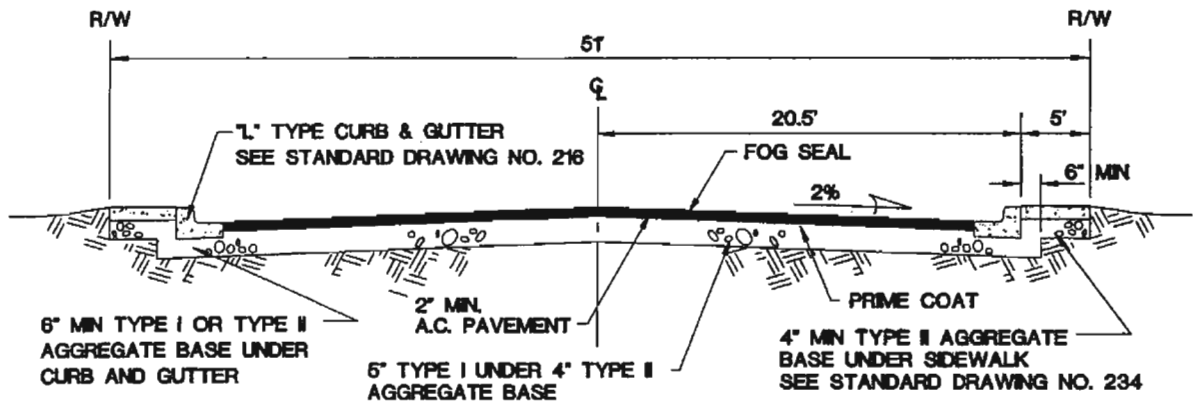
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**CONTINUED**

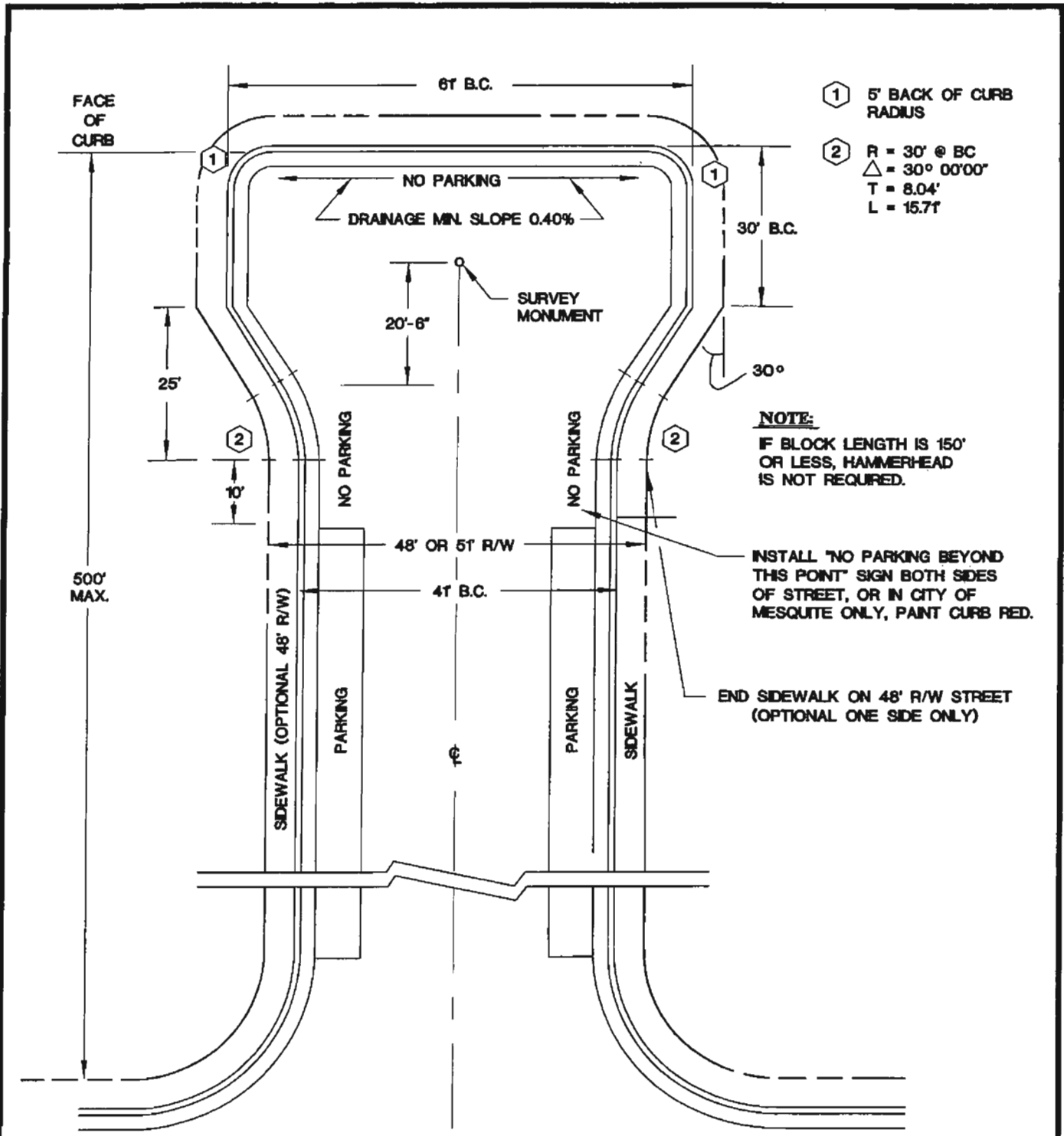
<u>DRAWING NUMBER</u>		<u>PAGE NUMBER</u>
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**NOTES:**

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/2" MAXIMUM ABOVE LIP OF GUTTER.
2. STRUCTURAL SECTION SHOWN IS BASED ON A SUBGRADE "R" VALUE OF 20. OTHER STRUCTURAL SECTIONS MAY BE APPROVED IF BASED ON ENGINEERING ANALYSIS BASED ON SUBGRADE "R" OR "CBR" VALUES DETERMINED BY SOIL TESTING. IN NO CASE SHALL THE A.C. THICKNESS BE LESS THAN THAT SHOWN.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
302	AGGREGATE BASE	HENDERSON, BOULDER CITY, MESQUITE  LOCAL RESIDENTIAL URBAN AREA STREET SECTION		
401	BITUMINOUS PAVEMENT			
406	PRIME COAT			
407	FOG SEAL			
501	CONCRETE			
		DATE 7-11-02	DWG. NO. 206	PAGE 12



- ① 5' BACK OF CURB RADIUS
- ② R = 30' @ BC  
 $\Delta = 30^\circ 00'00''$   
T = 8.04'  
L = 15.7'

**NOTE:**  
 USE OF THE HAMMERHEAD WILL BE ALLOWED IN SINGLE FAMILY RESIDENTIAL DWELLING AREAS ONLY.

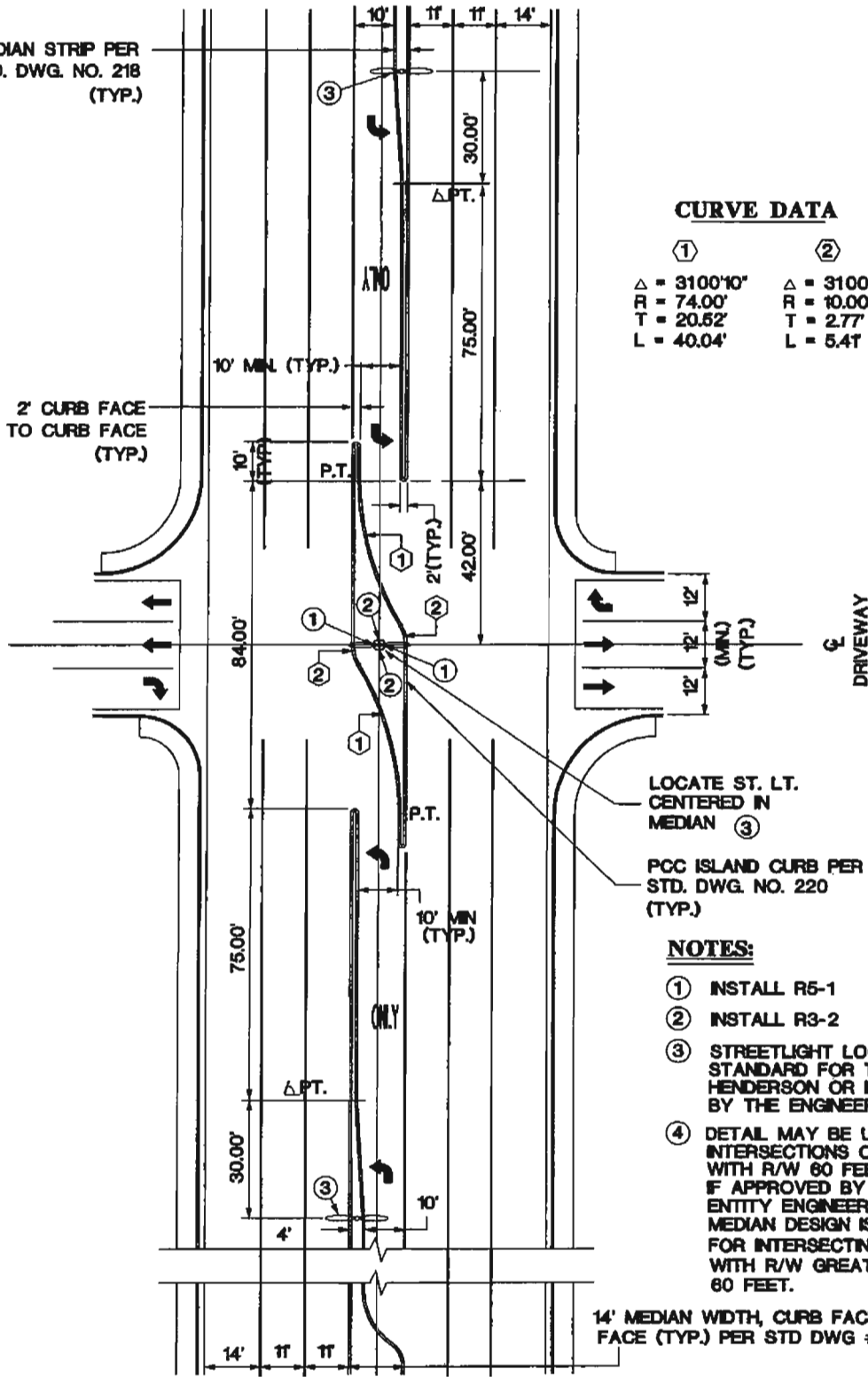
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
	CLARK COUNTY AND CITY OF MESQUITE ONLY		
	HAMMERHEAD		
	DATE 7-11-02	DWG. NO. 213	PAGE NO. 19

4' PCC MEDIAN STRIP PER  
STD. DWG. NO. 218  
(TYP.)

2' CURB FACE  
TO CURB FACE  
(TYP.)

**CURVE DATA**

①	②
Δ = 3100'10"	Δ = 3100'10"
R = 74.00'	R = 10.00'
T = 20.52'	T = 2.77'
L = 40.04'	L = 5.41'



LOCATE ST. LT.  
CENTERED IN  
MEDIAN ③

PCC ISLAND CURB PER  
STD. DWG. NO. 220  
(TYP.)

**NOTES:**

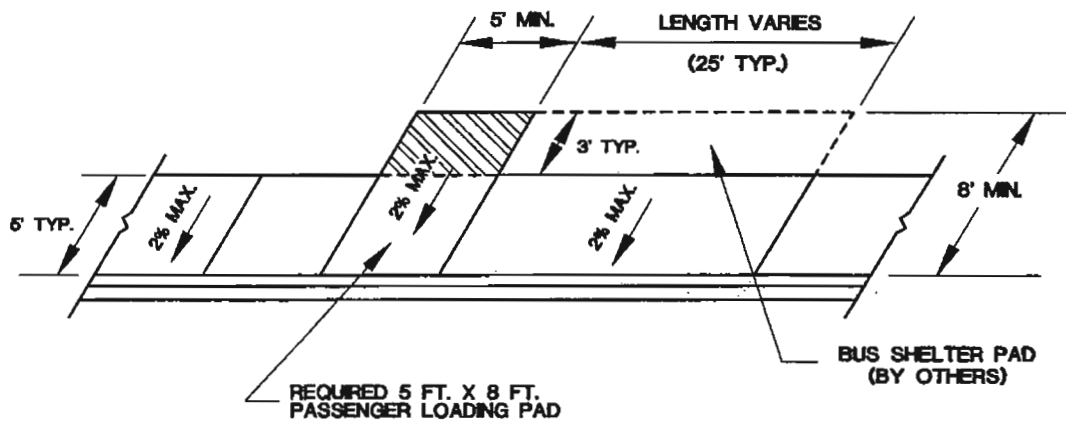
- ① INSTALL R5-1
- ② INSTALL R3-2
- ③ STREETLIGHT LOCATION STANDARD FOR THE CITY OF HENDERSON OR IF SPECIFIED BY THE ENGINEER.
- ④ DETAIL MAY BE USED FOR INTERSECTIONS OF STREETS WITH R/W 60 FEET OR LESS IF APPROVED BY THE ENTITY ENGINEER. SPECIAL MEDIAN DESIGN IS REQUIRED FOR INTERSECTING STREETS WITH R/W GREATER THAN 60 FEET.

14' MEDIAN WIDTH, CURB FACE TO CURB FACE (TYP.) PER STD DWG #218

**SPECIFICATION REFERENCE**

**UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA**

**CHANNELIZED MEDIAN DETAIL  
FOR COMMERCIAL DRIVEWAYS OR  
INTERSECTING STREETS**



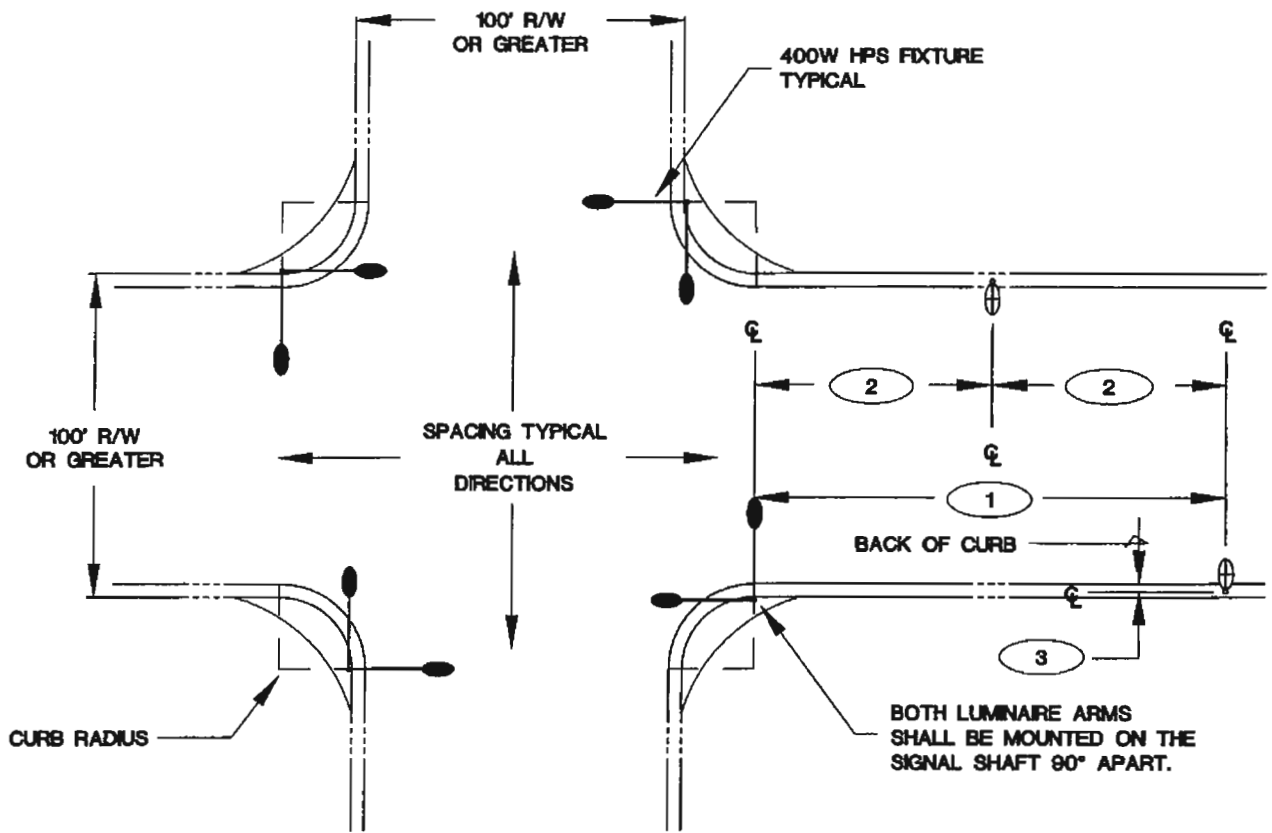
ADDITIONAL AREA REQUIRED BEHIND  
TYPICAL 5 FT. SIDEWALK FOR  
PASSENGER LOADING PAD

**NOTES:**

1. SIDEWALK RAMP MAY BE REQUIRED TO BE CONSTRUCTED IN THOSE LOCATIONS WHERE THE BUS STOP WOULD OTHERWISE BE INACCESSIBLE AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT. SEE DRAWING NO. 235, SHEET 4 OF 5 FOR SIDEWALK RAMP DETAILS.
2. ADDITIONAL RIGHT-OF-WAY OR EASEMENT IS REQUIRED FOR LOADING PAD AND VARIABLE HEIGHT CURB AT BACK OF SIDEWALK RAMP.
3. AGGREGATE BASE AND CONCRETE FOR LOADING PAD SHALL BE THE SAME AS REQUIRED FOR SIDEWALK. SEE DRAWING NO. 234.

<b>SPECIFICATION REFERENCE</b>		<b>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</b>	
302	AGGREGATE BASE	<b>TYPICAL BUS STOP PASSENGER LOADING AND SHELTER PADS</b>	
501	CONCRETE		
502	CONCRETE STRUCTURES		
		DATE 6-13-02	DWG. NO. 234.2
		PAGE 40.2	



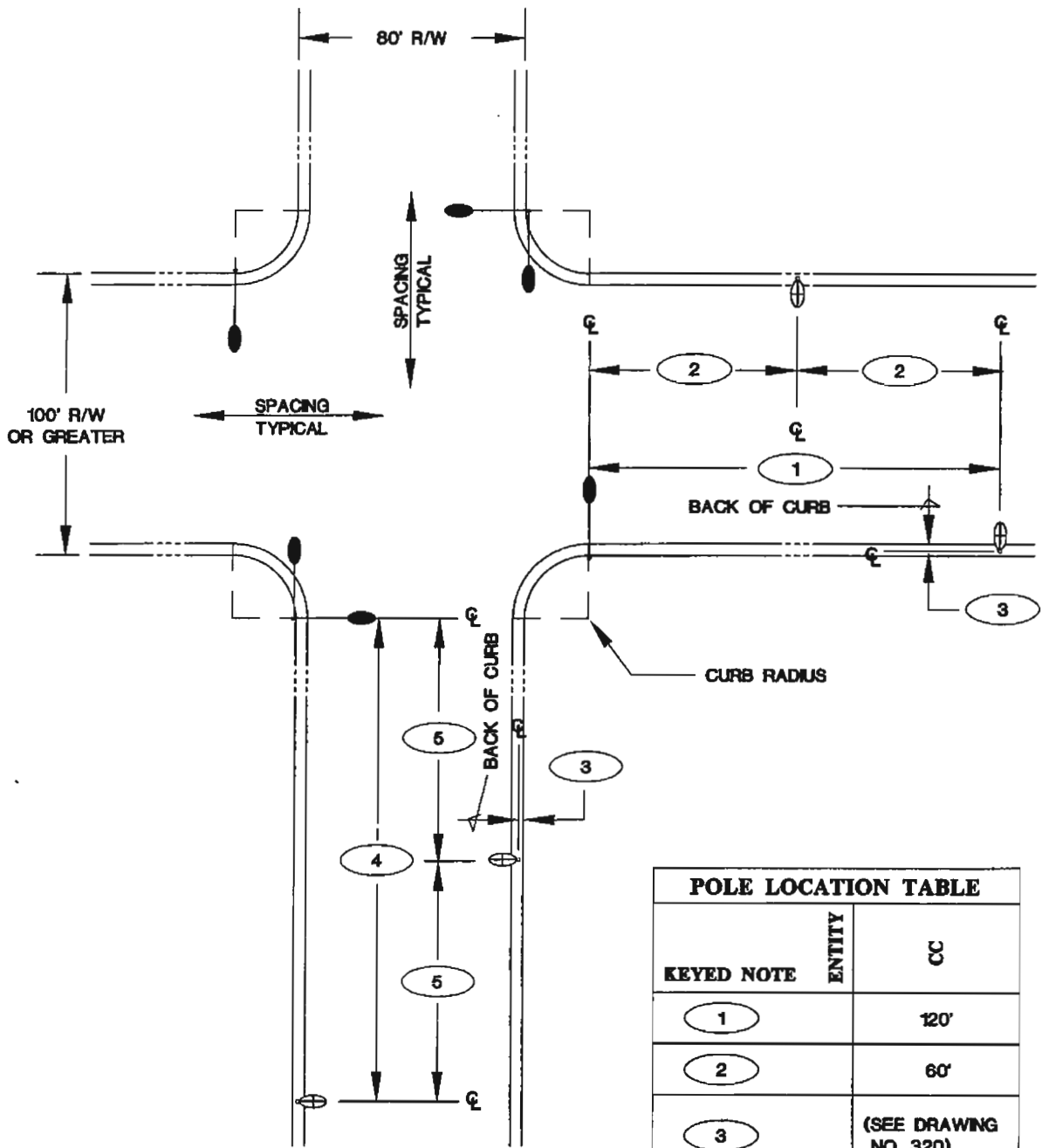


**NOTES:**

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. WITH THE ENGINEER'S APPROVAL, A SECOND LUMINAIRE MOUNTING PLATE MAY BE FIELD WELDED BY A CERTIFIED WELDER.
4. ALL LUMINAIRE MAST ARMS FOR 400W FIXTURES SHALL BE 15 FT. LONG AND INSTALLED PER STANDARD DRAWING NO. 404.406 UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

POLE LOCATION TABLE		
KEYED NOTE	ENTITY	CC
1		120'
2		60'
3		(SEE DRAWING NO. 320)

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
623	TRAFFIC SIGNALS & STREETLIGHTING	CLARK COUNTY ONLY	
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/100' OR GREATER RIGHT-OF-WAY	
		DATE 9-12-02	DWG. NO. 3011
			PAGE NO. 611

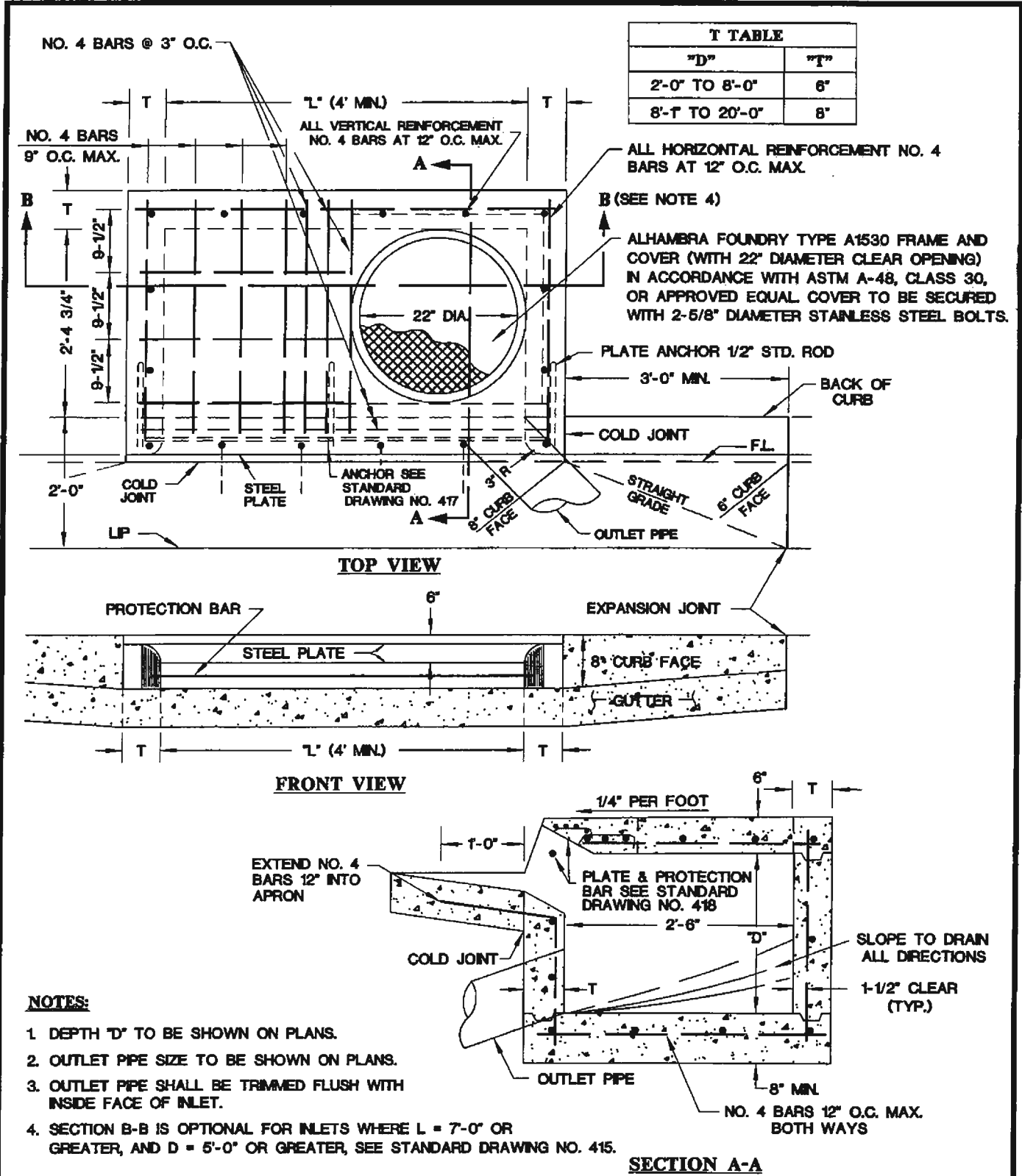


**NOTES:**

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. ALL LUMINAIRE MAST ARMS FOR 400W FIXTURES SHALL BE 15 FT. LONG AND INSTALLED PER STANDARD DRAWING NO. 404.406 UNLESS OTHERWISE APPROVED BY THE ENGINEER.

POLE LOCATION TABLE		
KEYED NOTE	ENTITY	CC
1		120'
2		60'
3		(SEE DRAWING NO. 320)
4		170'
5		85'

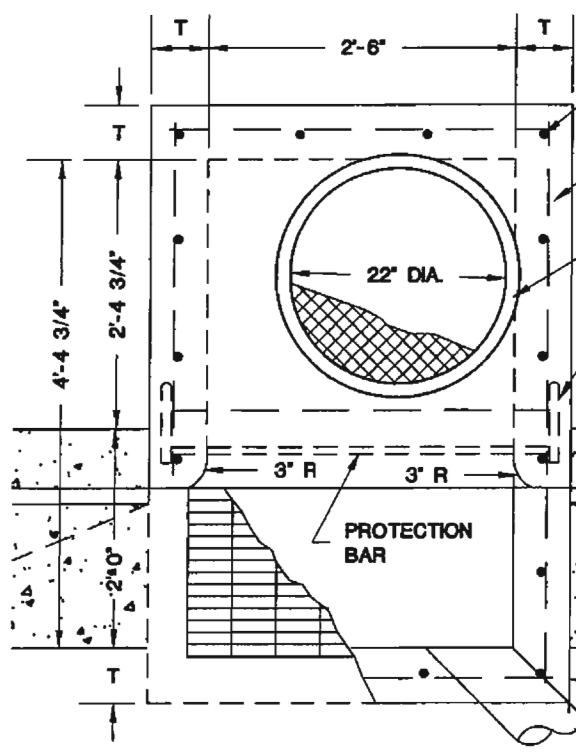
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
623	TRAFFIC SIGNALS & STREETLIGHTING	CLARK COUNTY ONLY		
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/80' RIGHT-OF-WAY		
		DATE 9-12-02	DWG. NO. 302.1	PAGE NO. 62.1



**NOTES:**

1. DEPTH 'D' TO BE SHOWN ON PLANS.
2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
3. OUTLET PIPE SHALL BE TRIMMED FLUSH WITH INSIDE FACE OF INLET.
4. SECTION B-B IS OPTIONAL FOR INLETS WHERE L = 7'-0" OR GREATER, AND D = 5'-0" OR GREATER, SEE STANDARD DRAWING NO. 415.

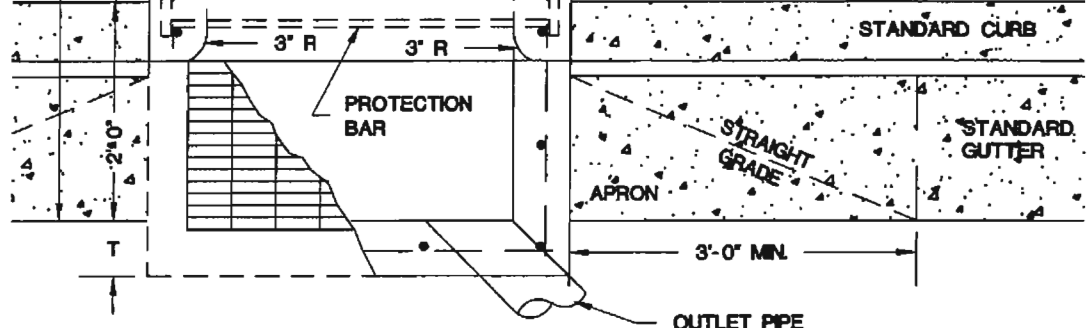
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
501	CONCRETE	<b>DROP INLET TYPE "A"</b>		
502	CONCRETE STRUCTURES			
505	REINFORCING STEEL			
713	STEEL			
		DATE 4-11-02	DWG. NO. 411	PAGE NO. 111



ALL VERTICAL REINFORCEMENT #4 BARS AT 12" O.C. MAX.  
 ALL HORIZONTAL REINFORCEMENT #4 BARS AT 12" O.C. MAXIMUM  
 ALHAMBRA FOUNDRY TYPE A1530 FRAME & COVER (WITH 22" DIAMETER CLEAR OPENING) IN ACCORDANCE WITH ASTM A-48, CLASS 30, OR APPROVED EQUAL COVER TO BE SECURED WITH 2 5/8" DIAMETER STAINLESS STEEL BOLTS.

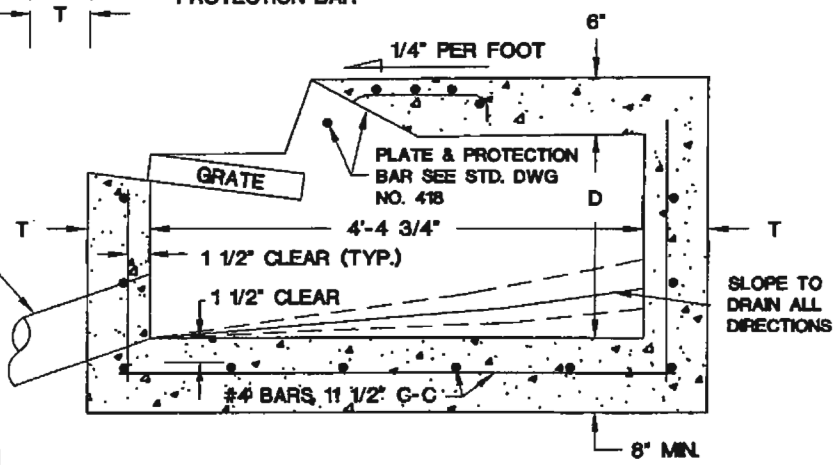
T TABLE	
"D"	"T"
2'-0" TO 8'-0"	6"
8'-1" TO 20'-0"	8"

PLATE ANCHOR 1/2" STD. ROD



**TOP VIEW**

**FRONT VIEW**

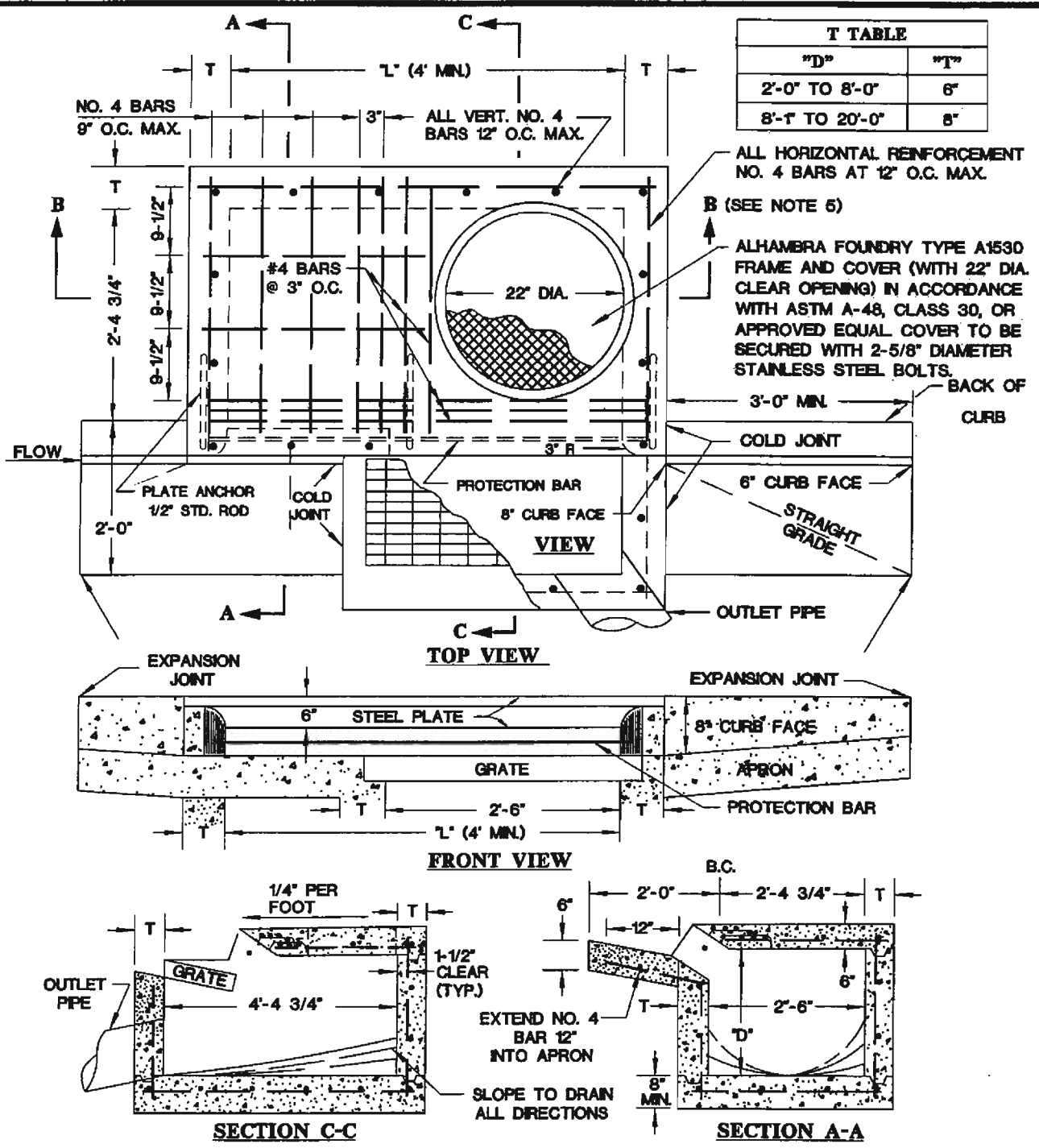


**SIDE VIEW**

**NOTES:**

1. DEPTH "D" TO BE SHOWN ON PLANS.
2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
3. CONCRETE SHALL BE CLASS "D" OR "DA".
4. OUTLET PIPE SHALL BE TRIMMED FLUSH WITH INSIDE FACE OF INLET.
5. FOR GRATE DETAIL SEE STANDARD DRAWING NO. 417

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
501	CONCRETE	<b>DROP INLET TYPE "B"</b>	
502	CONCRETE STRUCTURES		
505	REINFORCING STEEL		
713	STEEL		
		DATE 4-11-02	DWG. NO. 412
		PAGE 112	



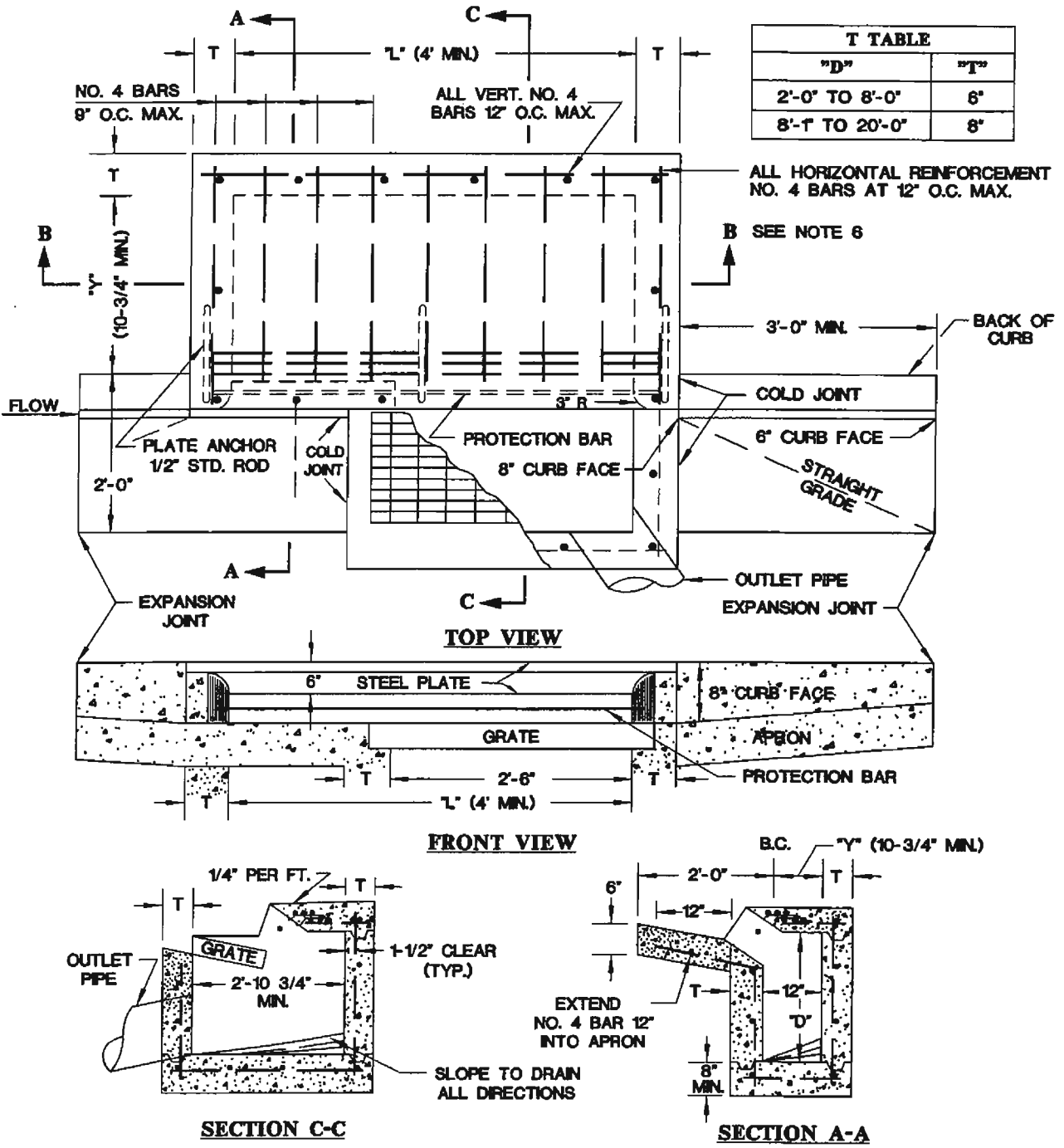
**NOTES:**

1. DEPTH 'D' TO BE SHOWN ON PLANS.
2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
3. WHEN LENGTH 'L' EXCEEDS 4'-0" SUPPORT BOLTS REQUIRED, SEE STANDARD DRAWING NO. 418.
4. FOR GRATE DETAIL SEE STANDARD DRAWING NO. 417.
5. SECTION B-B IS OPTIONAL FOR INLETS WHERE L > 7'-0" AND D > 5'-0", SEE STANDARD DRAWING NO. 415.

SPECIFICATION REFERENCE	
501	CONCRETE
502	CONCRETE STRUCTURES
505	REINFORCING STEEL
713	STEEL

**UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA**

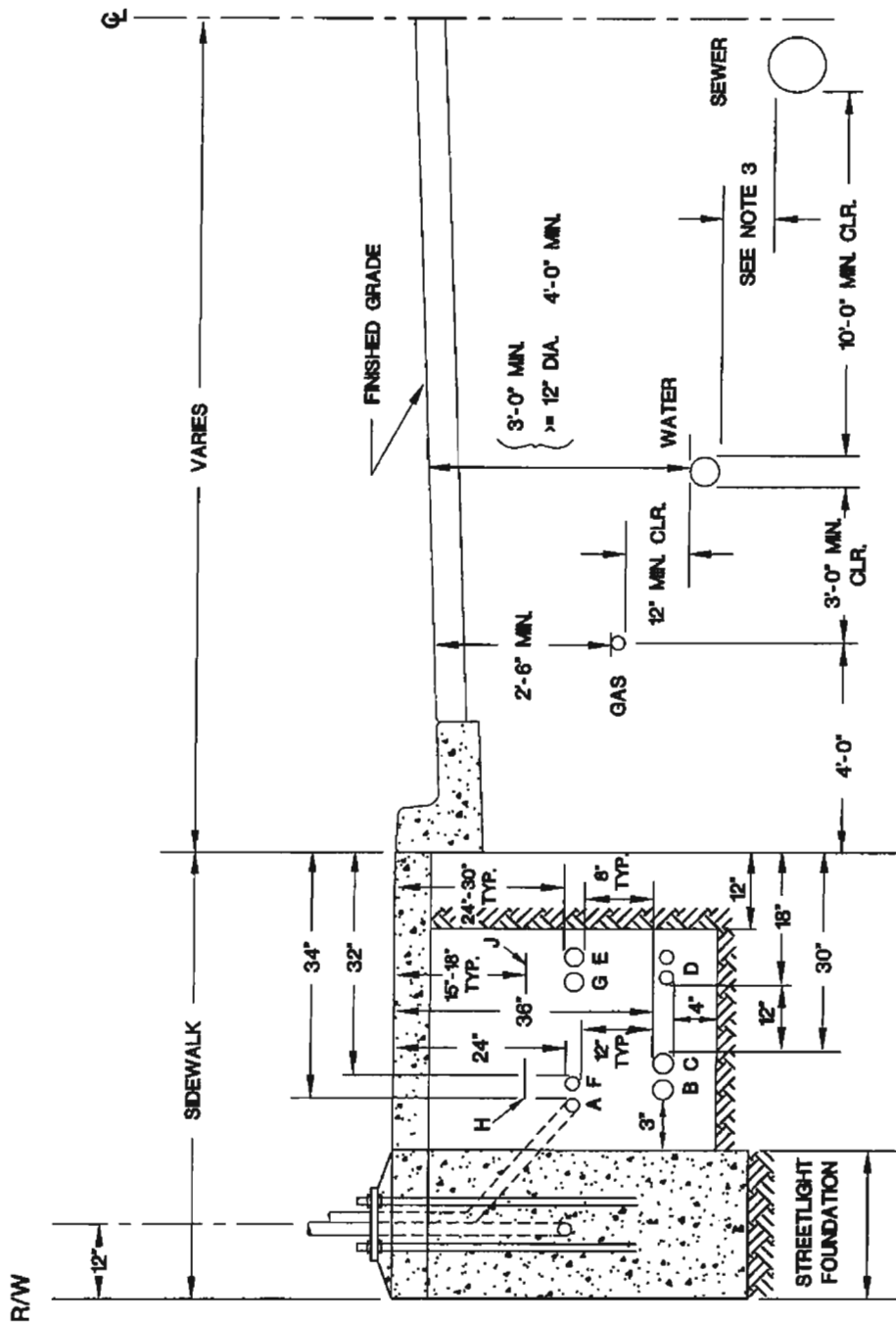
**DROP INLET TYPE "C"**



**NOTES:**

1. DROP INLET TYPE "D" TO BE USED WHEN CONFLICTING UTILITIES ARE LOCATED IN THE SIDEWALK AREA.
2. DEPTH "D" AND DISTANCE "Y" TO BE SHOWN ON PLANS.
3. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
4. WHEN LENGTH "L" EXCEEDS 4'-0" SUPPORT BOLTS REQUIRED, SEE STANDARD DRAWING NO. 418.
5. FOR GRATE DETAIL SEE STANDARD DRAWING NO. 417.
6. SECTION B-B IS OPTIONAL FOR INLETS WHERE L > 7'-0" AND D > 5'-0", SEE STANDARD DRAWING NO. 415.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
501	CONCRETE	<b>DROP INLET TYPE "D"</b>		
502	CONCRETE STRUCTURES			
505	REINFORCING STEEL			
713	STEEL			
		DATE 4-11-02	DWG. NO. 414	PAGE NO. 114



- NOTES:**
1. SEWER MAY BE LOCATED ON OTHER SIDE OF CENTERLINE AS TERRAIN DICTATES.
  2. STREETLIGHT FOUNDATIONS SHALL BE LOCATED BEHIND SIDEWALK FOR SIDEWALK WIDTHS LESS THAN 5 FEET PER STANDARD DRAWING NO. 320.
  3. SEPARATION DISTANCE SHALL CONFORM TO UTILITY STANDARDS ADOPTED BY THE GOVERNING AGENCY FOR SEWER AND WATER FACILITIES.

- A. STREETLIGHT CONDUIT
- B. POWER COMPANY SECONDARY
- C. POWER COMPANY PRIMARY
- D. TELEPHONE CONDUITS
- E. CABLE T.V. CONDUIT
- F. TRAFFIC SIGNAL CONDUIT
- G. OTHER COMMUNICATIONS CONDUIT
- H. POWER MARKING TAPE
- J. TELEPHONE MARKING TAPE

SPECIFICATION REFERENCE	

**UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA**

**TYPICAL UNDERGROUND UTILITY  
LOCATIONS IN RESIDENTIAL STREETS  
WITH 60 FEET OR LESS RIGHT-OF-WAY**

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