

Town of
Yucca Valley

STANDARD DRAWINGS

STANDARD DRAWINGS

TOWN OF YUCCA VALLEY, CALIFORNIA

Introduction

The Street Improvement Standards presented herein have been developed to provide assistance to Engineers, Architects, and Developers when preparing Development plans in conjunction with Development Code and General Plan requirements.

General Street Plan

Street Classifications are shown on the General Plan, a copy of those are provided herein. Streets not indicated by an appropriate symbol are classified as minor streets with a minimum right-of-way width of sixty (60) feet, except rural streets, fifty (50) feet. Where proposed street improvements join existing non-standard improvements, the Community Development Department, Engineering Division, should be contacted for design details and width requirements. Conferences with the Town Planning and Engineering staff are encouraged for all projects prior to preparation of final working drawings.

Town Participation

In the following circumstances, Town participation to defray the cost of required street improvements is authorized subject to prior approval by the Town Council:

1. 100% of the cost of relocating or modifying existing traffic signals unless required as part of the Development Conditions of Approval.
2. For assessment districts with frontage or side frontage on major or secondary thoroughfares, the cost of all asphalt concrete paving in excess of twenty (20) feet in width, measured on one side of street centerline.
3. 100% of the cost of all asphalt concrete paving on the opposite side of street centerline from the project, unless required as part of the Development Conditions of Approval.

Dedication of Right of Way

Street right-of-way dedications required by the Development Code and General Street Plan are measured from the centerline of the street. Unless otherwise approved by Resolution of the Town Council, centerline shall be determined as follows:

1. All section line streets – the section line.

2. All subdivisions – for interior streets the center of the right-of-way dedicated on the subdivision map, for boundary half-streets, the tract boundary.
3. All quarter section line streets – the North-South and East-West midsection lines.
4. All other street in the following order of precedence:
 - As shown on the General Street Plan.
 - Along property lines.
 - By negotiation between Developer and Town.

Plats and deeds for dedication of right-of-way for private projects shall be prepared by the Developer's Engineer, and for the Town projects by the Engineering Division.

Replacement of Non-Standard Improvements

Unless otherwise approved by the Planning Commission and/or Town Council, non-standard existing street improvement shall be removed and replaced with standard improvements. Non-standard improvements are defined as roll curbs; curb and gutter to improper line, grade, or distance from centerline; defective asphalt concrete paving, berm, and Portland cement concrete work of all types; and curb radii less than twenty-five (25) feet.

Special Sub-Grade Conditions

Standard Plans which indicate compacted native base under asphalt concrete paving are based on an "R" value of 60 or higher and represent approximately 95% of prevailing native soil in the area. Subgrade over a base with an "R" value below 60 shall be designed by the Engineer after consultation with the Town Engineer regarding the traffic index of the street in question.

Maintenance of Street Improvements

Improvements within the dedicated right-of-way shall be maintained by the Town except as follows:

1. Those streets that are not recognized as part of the Maintained Road System.
2. Private streets (easements for emergency services and utilities) shall be maintained by the Owner.

Placement of Walls or Fences on Front or Side Property Line

Height and placement of walls and fences shall be in accordance with the Development Code. Landscaping required on the street side of a wall or fence shall be placed outside of the street right-of-way and the wall or fence set back from the property line sufficiently to accommodate the landscaping, the parkway

area between the back of the sidewalk and the property line shall be landscaped and maintained by the Developer and his or her successors, subject to prior approval of the Planning Division and the issuance of an encroachment permit. Structures in the right-of-way extending above the finished grade line shall not be allowed.

Utilities

All utilities shall be installed in the street prior to pavement construction.

Permits Required

Prior to commencement of construction work in the street right-of-way, an Encroachment Permit shall be obtained from the Engineering Division, subject to payment of a fee in accordance with the Comprehensive Fee Schedule of the Town of Yucca Valley

Future Standard Drawings

From time to time revisions to the Standard Drawings will be made and new standards added. Each recipient of the Standard Drawings should determine that his booklet is kept current. Notice of revisions or additions to the Standard Drawings will be posted on the Town of Yucca Valley website and made available to all Standard Drawing holders.

Purchase of Standard Drawings

Standard Drawings may be purchased from the Engineering Division, at the following prices:

Town of Yucca Valley Standard Drawings for Public Works Construction \$30.00 each.

Standard Drawings

Section 1 – Typical Street Sections

<u>Drawing No.</u>	<u>Description</u>
101	Local
102	Collector with Striped Median
103	Collector with Bike Path
104	Arterial – 4 Lanes Divided
104A	Arterial – 2 Lanes Divided
105	Highway – 4 Lanes Divided
106	Highway – 6 Lanes Divided
107	Local Hillside Paved Road
108	Graded Road
109	Rural Local Street
110	Industrial
111	Local Intersection Design “L” Shape
112	Local Street Cul-de-sac
120	Intersection Design Rural Local Road
121	Driveway Grades

Section 2 – Curb and Gutter, Sidewalk and Asphalt Concrete Details

<u>Drawing No.</u>	<u>Description</u>
200	Curb and Gutter
200A	Type "D" "Barrier" Curb
202	Asphalt Concrete Dike
203	Traversable Dike
210	Residential Driveway Approach Without Curb
211	Residential Driveway Approach With Curb
212	Commercial Driveway Approach Without Curb
213	Commercial Driveway Approach With Curb
214	Driveway Spacing
220	Sidewalk
221	Sidewalk Ramp
230	Cross Gutter and Spandrel
231	Alley
240	Street Pavement Design
241	Trench Pavement Replacement Detail
242	Median Island Treatment
242A	Median Island Treatment – Planting/Irrigation/ Ground Cover
242B	Median Island Treatment – Alternate Landscaping & Concrete Areas

Section 3 – Utility, Street Light, and Sign Details

<u>Drawing No.</u>	<u>Description</u>
300	Street Light for Major and Arterial Streets
301	Street Light for Collector Streets
302	Street Light for Local Streets
303	Street Light Concrete Footing Details
304	Traffic Signal Pull Box Installation
305	Street Lighting General Notes
310	Fire Hydrant Location
311	Utility Valve Cover Installation
320	Underground Utility Location
321	Street Marker
322	Street Name Sign & Post

Section 4 – Storm Drain and Drainage Details

<u>Drawing No.</u>	<u>Description</u>
400	Local Depression
401	Local Depression
402	Local Depression No. 2
403	Local Depression No. 3
404	Curb Outlet Structure
405	Outlet Structure
406	Parkway Culvert with Steel Plate Cover
410	Junction Structure No. 1
411	Junction Structure No. 2
411A	Junction Structure No. 2
412	Junction Structure No. 3
413	Junction Structure No. 4
414	Junction Structure No. 5
415	Junction Structure No. 6
416	Junction Structure No. 7
420	Transition Structure No. 1
421	Transition Structure No. 2
422	Transition Structure No. 3
423	Transition Structure No. 4
430	Connector Pipe Collar
431	Concrete Collar for Pipe 12 Inches Through 66 Inches
440	Headwall Wing – Type
441	Headwall “U” – Type
450	Cutoff Wall for Drainage Channel
451	Channel Crossing
460	Inlet Type X (Grate Details)

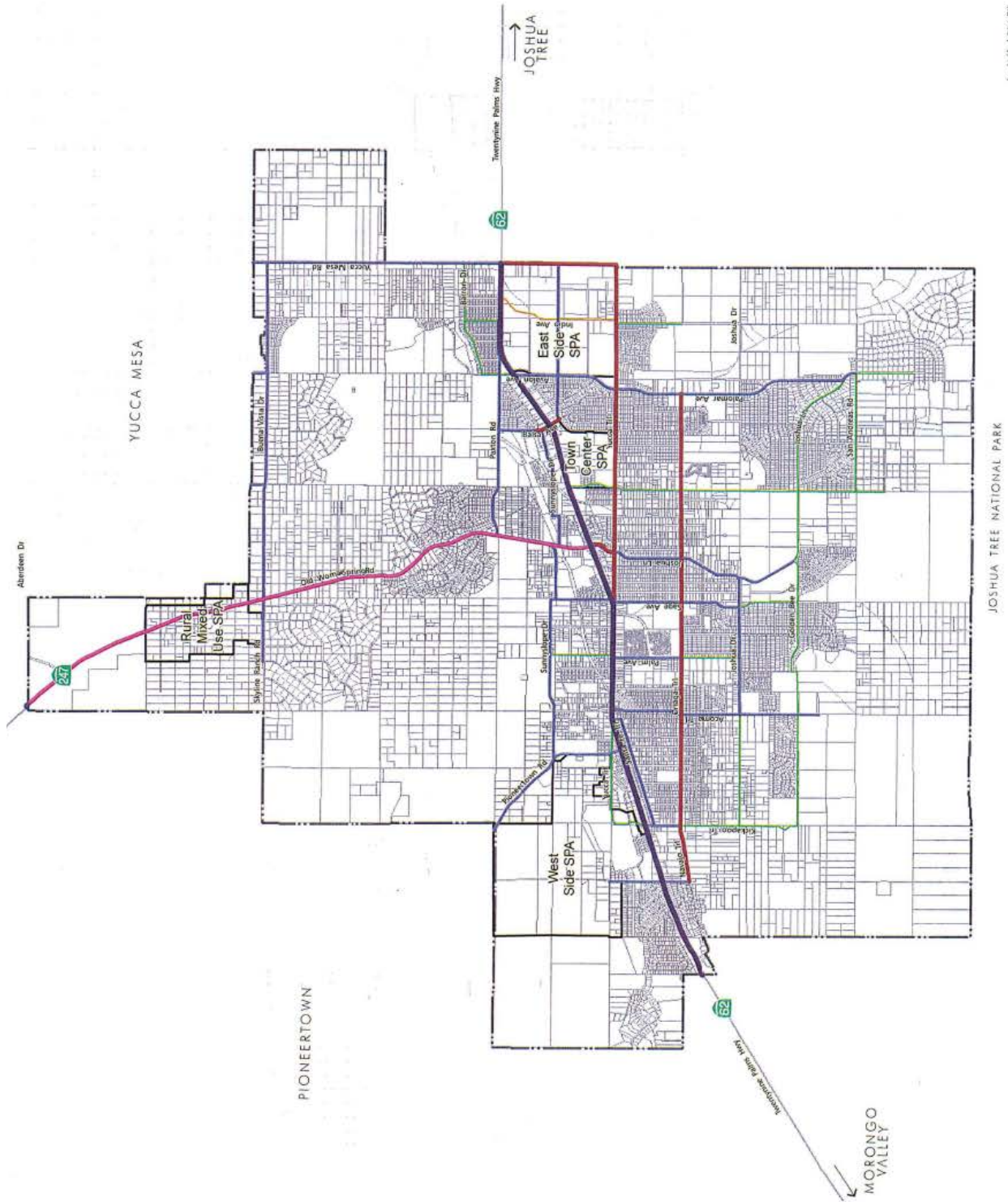
Section 4 – Storm Drain and Drainage Details (con't)

<u>Drawing No.</u>	<u>Description</u>
461	Inlet Type IX (Checkered Plate)
462	Storm Drain Cleanout
463	Standard Dry Well
464	Timber Bulkheads
465	Timber Bulkheads
466	Concrete Bulkheads
467	Pipe Supports Across Trenches
468	Bedding and Pay Lines
470	Catch Basin No. 1
471	Catch Basin No. 4 (Sht. 1 of 2)
471A	Catch Basin No. 4 (Sht. 2 of 2)
472	Catch Basin No. 6
473	Catch Basin Reinforcement
474	Special Connections to Catch Basin
475	Type "A" Catch Basin
476	Catch Basin Mountain Roads
476A	Catch Basin Mountain Roads
477	Catch Basin Grate
480	Catch Basin Opening
480A	Catch Basin Steel Plate Galvanized Steel Step
481	Removable Protection Bar for Catch Basins
481A	Detail of Catch Basin Opening & Installation Details
482	Standard Drop Step
483	Manhole Frame & Cover for Catch Basins
490	Storm Drain Manhole No. 1 (Sht. 1 of 2)
490A	Storm Drain Manhole No. 1 (Sht. 2 of 2)
491	Storm Drain Manhole No. 2
492	Storm Drain Manhole No. 3
493	Storm Drain Manhole No. 4
493A	Storm Drain Manhole No. 4
494	Manhole Shaft for Cast Pipe
495	Standard Pressure Manhole Shaft
496	Manhole Frame & Cover – Roadway
497	Manhole Frame & Cover – Parkway
498	Manhole Frame & Cover – Non-Rocking
499	Manhole Frame & Cover – Pressure Type
493A	Storm Drain Manhole No. 4

Section 5 – Miscellaneous Details

<u>Drawing No.</u>	<u>Description</u>
500	Single Mailbox Installation
501	Multiple Mailbox Installation for New Sidewalk
501A	Multiple Mailbox Installation for Existing Sidewalk
510	Metal Beam Guardrail
511	Metal Plate Guardrail
520	Traffic Safety Markers
521	Post with Reflector
522	End of Street Temporary Pavement
522A	Barricade Rural Area
523	Street Marker Post Installation
530	Standard Trash Enclosure
550	Pipe Swing Gate
M1	Copperweld Monument
M2	Sectional Monuments
M3	Centerline Ties

Figure C-1



**ROADWAY CLASSIFICATIONS
AT GENERAL PLAN BUILDOUT**

ROADWAY CLASSIFICATIONS

- Highway – 6 Lanes Divided – 134'
- Highway – 4 Lanes Divided – 92'
- Arterial – 4 Lanes Divided – 100'
- Arterial – 2 Lanes – 70'
- Industrial – 2 Lanes with Striped Median – 70'
- Collector – 2 Lanes – 66'
- SPA - Special Policy Area
- Down Limits

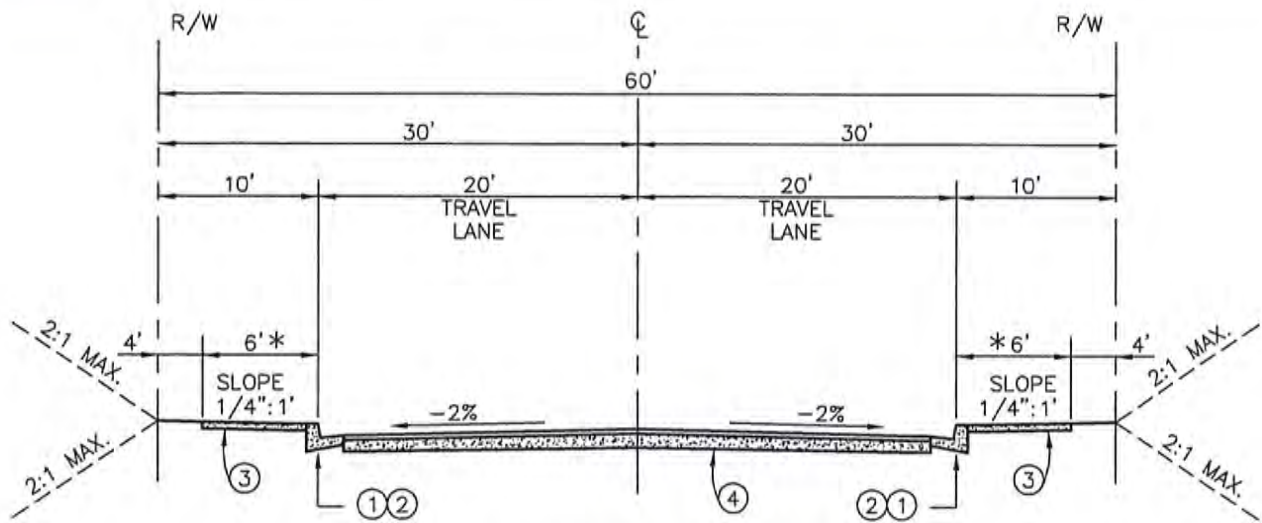
NOTE: Illustrates those roadway classifications needed to handle the vehicle trips generated as a result of the buildout of the General Plan and applicable regional plans. Assumes all overlaps are operating at Level of Service D or better.



DATE: 2/20/14
 SCALE: 1" = 1,000'
 SHEET: 0.005
 TOTAL SHEETS: 0.041

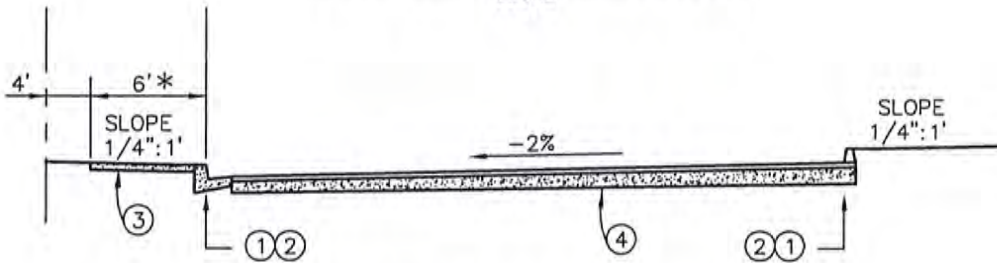
Section 1 – Typical Street Sections

<u>Drawing No.</u>	<u>Description</u>
101	Local
102	Collector with Striped Median
103	Collector with Bike Path
104	Arterial – 4 Lanes Divided
104A	Arterial – 2 Lanes Divided
105	Highway – 4 Lanes Divided
106	Highway – 6 Lanes Divided
107	Local Hillside Paved Road
108	Graded Road
109	Rural Local Street
110	Industrial
111	Local Intersection Design “L” Shape
112	Local Street Cul-de-sac
120	Intersection Design Rural Local Road
121	Driveway Grades



TYPICAL SECTION

LEVEL



TYPICAL SECTION

TILT

NOTES:

- ① CURB AND GUTTER PER STD. DWG. NO. 200
- ② A.C. DIKE PER STD DWG. NO 202 **
- ③ SIDEWALK PER STD. DWG. NO. 220
- ④ PAVEMENT SECTION PER STD. DWG. NO. 240

* SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
 ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gishka DATE 11/17/16

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



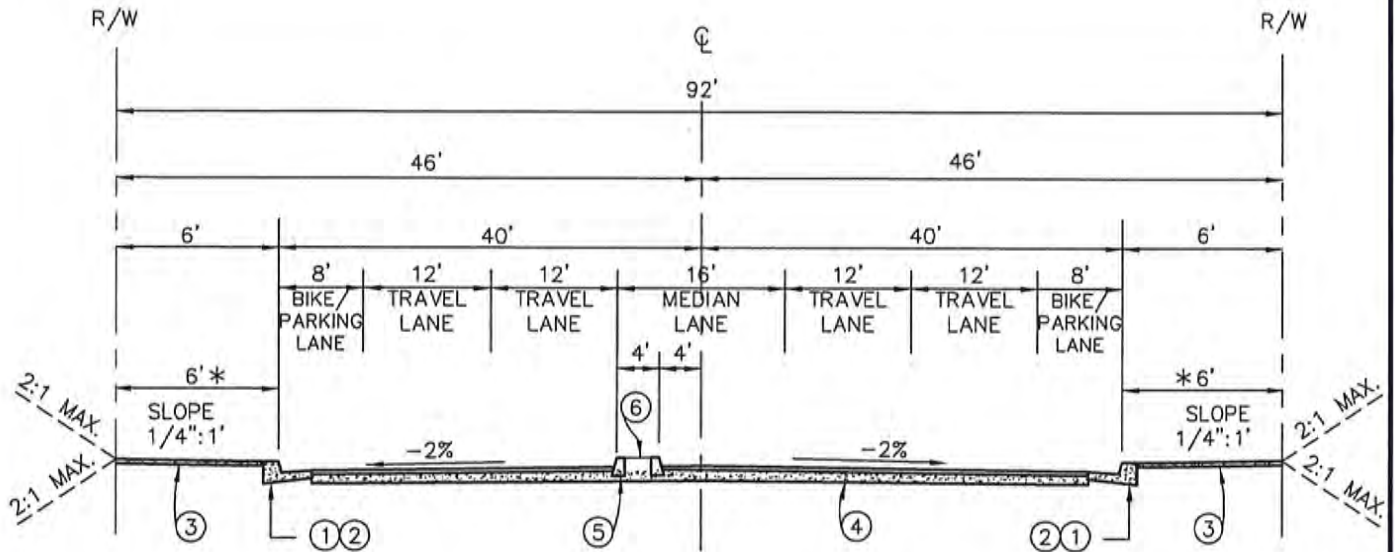
Town of
Yucca Valley

▲ REVISED TO REFLECT CURRENT GENERAL PL. -N- 8/24/16

LOCAL

STANDARD DRAWING NO. 101

REVISION BY DATE



TYPICAL SECTION

NOTES:

- ① CURB AND GUTTER PER STD. DWG. NO. 200
- ② A.C. DIKE PER STD. DWG. NO. 202 **
- ③ SIDEWALK PER STD. DWG. NO. 220
- ④ PAVEMENT SECTION PER STD. DWG. NO. 240
- ⑤ MEDIAN CURB PER STD. DWG. NO. 200A
- ⑥ MEDIAN ISLAND LANDSCAPING PER STD. DWG. NO. 242, 242A, AND 242B

* SIDEWALK REQUIREMENT PER DEVELOPMENT CODE

** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Wishta

DATE *11/17/16*

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827



Town of
Yucca Valley

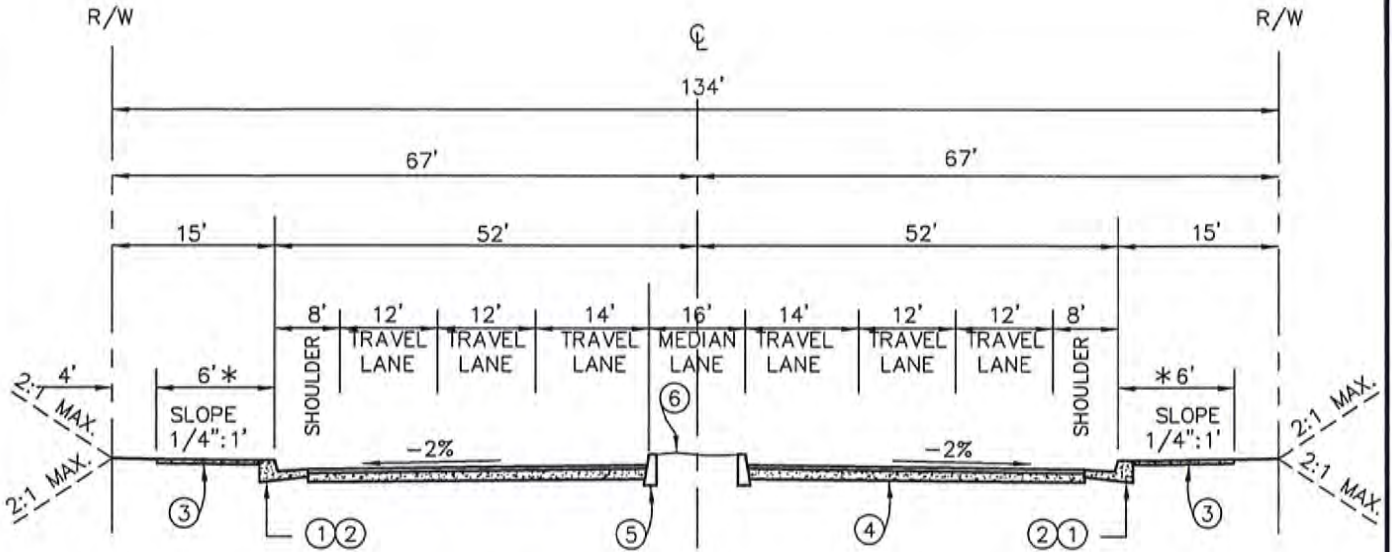
HIGHWAY
(4 LANES DIVIDED)

▲ REVISED TO REFLECT CURRENT GENERAL PL. -N- 8/24/16

STANDARD DRAWING NO. 105

REVISION

BY DATE



TYPICAL SECTION

NOTES:

- ① CURB AND GUTTER PER STD. DWG. NO. 200
- ② A.C. DIKE PER STD DWG. NO 202 **
- ③ SIDEWALK PER STD. DWG. NO. 220
- ④ PAVEMENT SECTION PER STD. DWG. NO. 240
- ⑤ MEDIAN CURB PER STD. DWG. NO. 200A
- ⑥ MEDIAN ISLAND LANDSCAPING PER STD. DWG. NO. 242, 242A AND 242B

* SIDEWALK REQUIREMENT PER DEVELOPMENT CODE

** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gishta DATE *11/17/16*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

▲ REVISED TO REFLECT CURRENT GENERAL PL. -N- 8/24/16

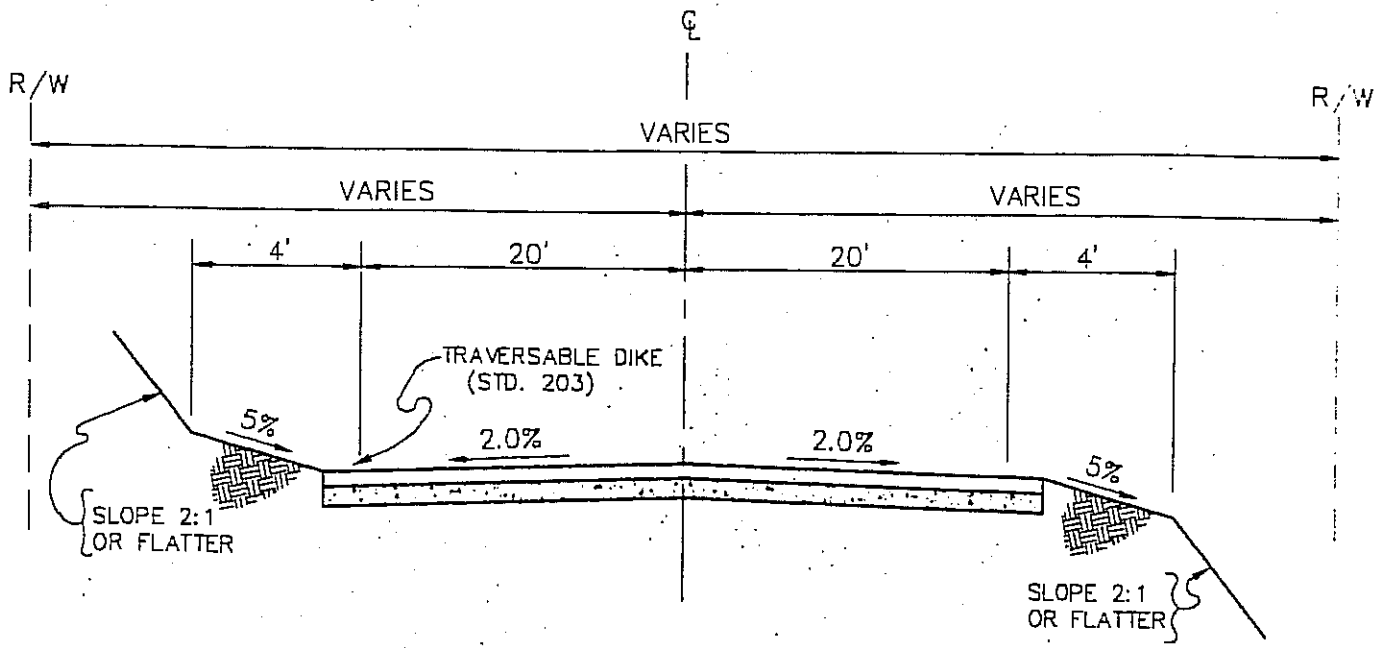
REVISION	BY	DATE



Town of
Yucca Valley

HIGHWAY
(6 LANES DIVIDED)

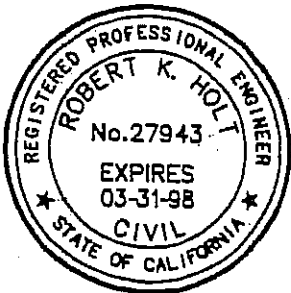
STANDARD DRAWING NO. 106



TYPICAL SECTION
HILLSIDE

NOTES:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS.
2. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE EASEMENTS.
3. SLOPE REQUIREMENT MAY BE VARIED BY SUBMISSION OF SOILS REPORT.
4. ENTIRE SECTION MAY BE SLOPED AT 2% (NO CROWN) WITH PRIOR APPROVAL OF THE TOWN ENGINEER.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

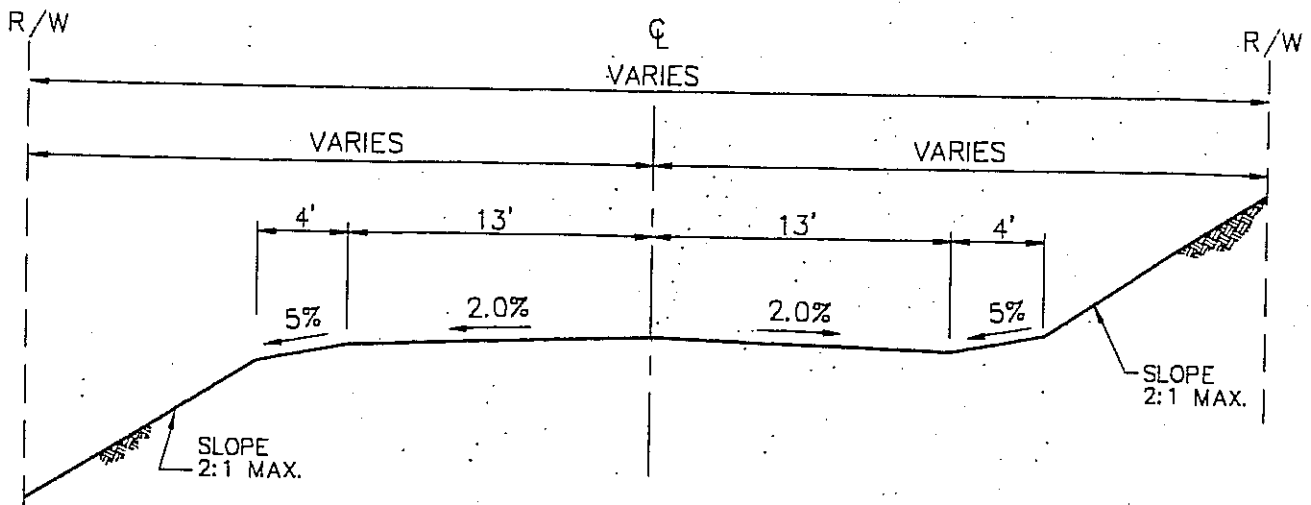
REVISION	BY	DATE



Town of
Yucca Valley

LOCAL HILLSIDE
PAVED ROAD

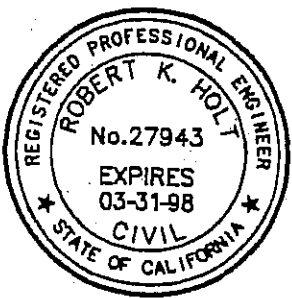
STANDARD DRAWING NO. 107



TYPICAL SECTION

NOTES:

1. DRAINAGE IMPROVEMENTS TO BE PLACED WHERE REQUIRED.
2. EMBANKMENTS PLACED WITHIN AREA OF THE TRAVELED WAY SHALL PROVIDE A STABLE ROADWAY.
3. INDICATE AREAS WHERE IMPORTED MATERIAL IS REQUIRED TO PROVIDE A STABLE ROADWAY.
4. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE EASEMENTS.
5. ENTIRE SECTION MAY BE SLOPED AT 2% (NO CROWN) WITH PRIOR APPROVAL OF THE TOWN ENGINEER.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

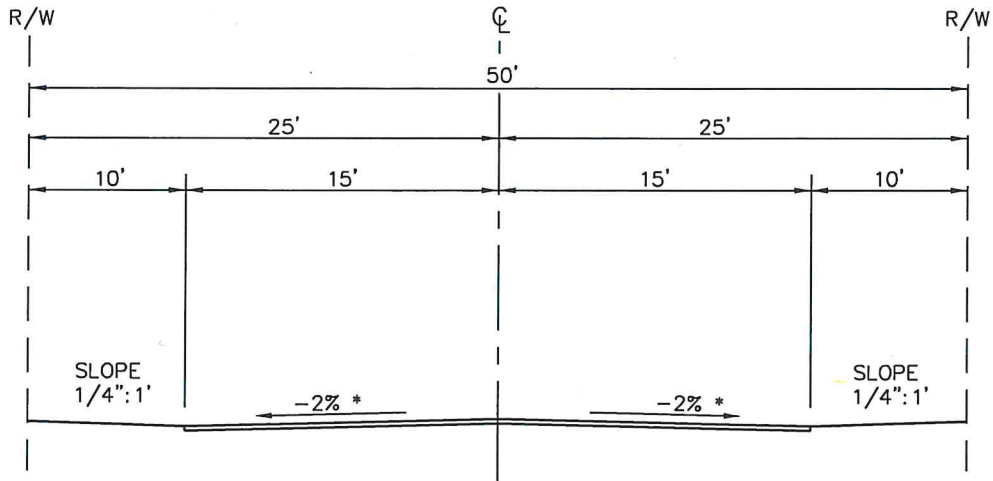
REVISION	BY	DATE



Town of
Yucca Valley

GRADED ROAD

STANDARD DRAWING NO. 108



TYPICAL SECTION

NOTES:

1. STREET SURFACE (ASPHALT OR DIRT) SHALL BE PER DEVELOPMENT CONDITIONS OF APPROVAL.

* 2. INVERTED CROWN MAY BE USED WITH APPROVAL FROM THE TOWN ENGINEER



APPROVED: DIRECTOR OF PUBLIC WORKS

Alv Uisita DATE 4/21/20

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

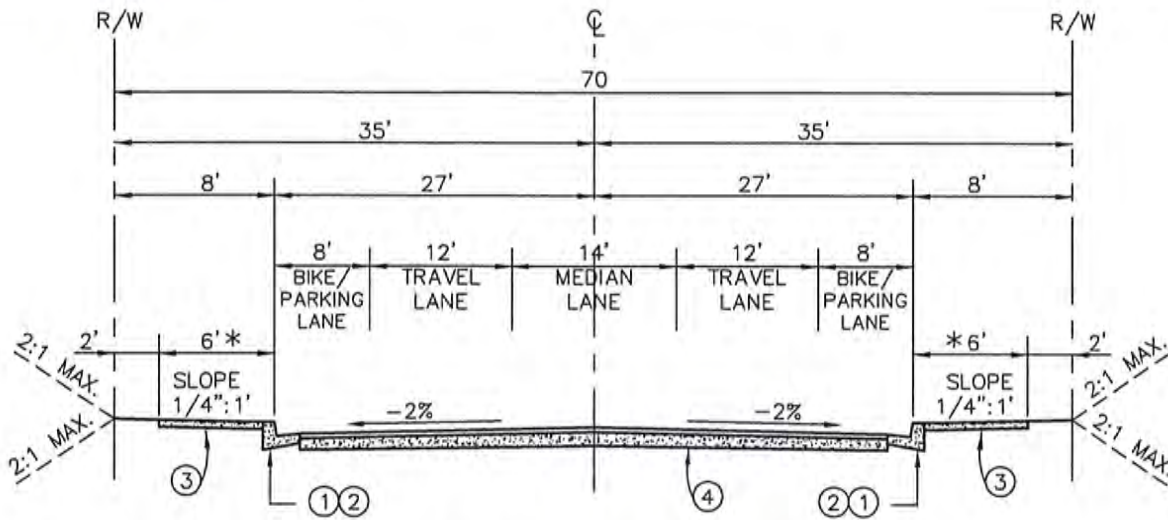


Town of
Yucca Valley

① REVISED TO REFLECT CURRENT GENERAL PL.	-N-	1/3/18
② REVISED EDGE OF PAVEMENT	-N-	8/30/24
REVISION	BY	DATE

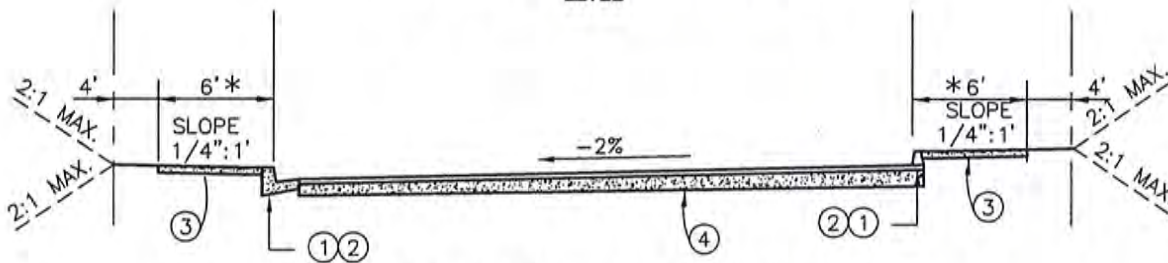
RURAL LOCAL STREET

STANDARD DRAWING NO. 109



TYPICAL SECTION

LEVEL



TYPICAL SECTION

TILT

NOTES:

- ① CURB AND GUTTER PER STD. DWG. NO. 200
- ② A.C. DIKE PER STD DWG. NO 202 **
- ③ SIDEWALK PER STD. DWG. NO. 220
- ④ PAVEMENT SECTION PER STD. DWG. NO. 240



* SIDEWALK REQUIREMENT PER DEVELOPMENT CODE

** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gishka DATE *11/17/16*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



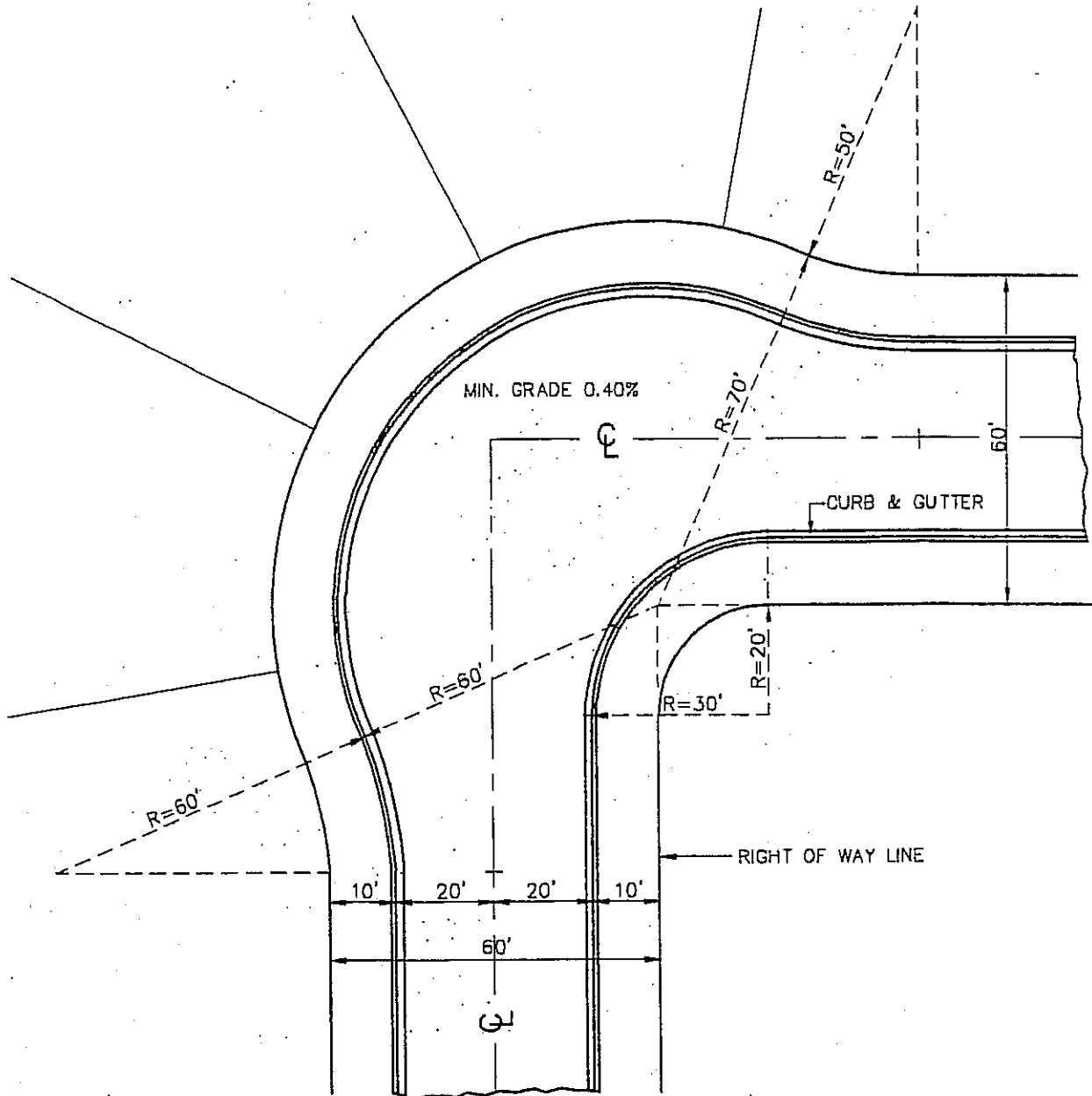
Town of
Yucca Valley

△ REVISED TO REFLECT CURRENT GENERAL PL. -N- 8/24/16

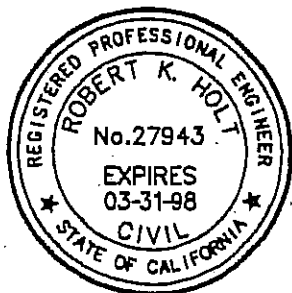
INDUSTRIAL

STANDARD DRAWING NO. 110

REVISION BY DATE



PLAN



NOTES:

1. MINIMUM 0.40% ON ALL HORIZONTAL CURVE GRADES.
2. SEE STANDARD NO. 101 FOR TYPICAL SECTION.

APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



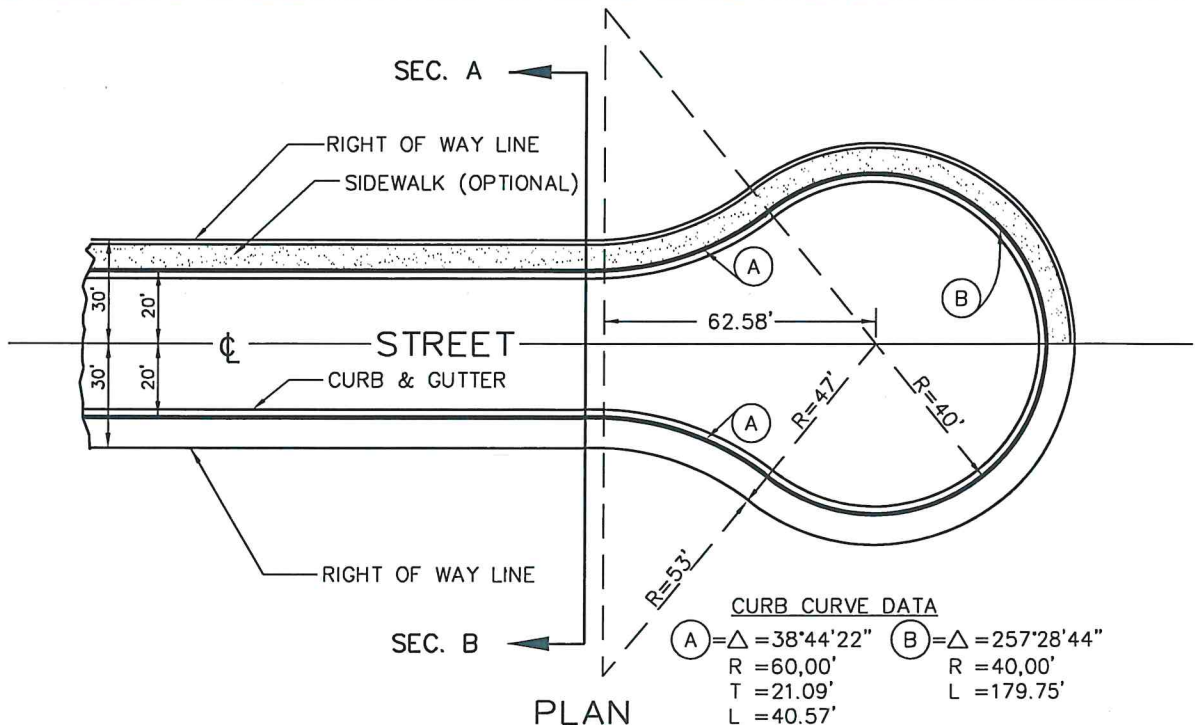
Town of
Yucca Valley

LOCAL INTERSECTION DESIGN
"L" SHAPE

STANDARD DRAWING NO. 111

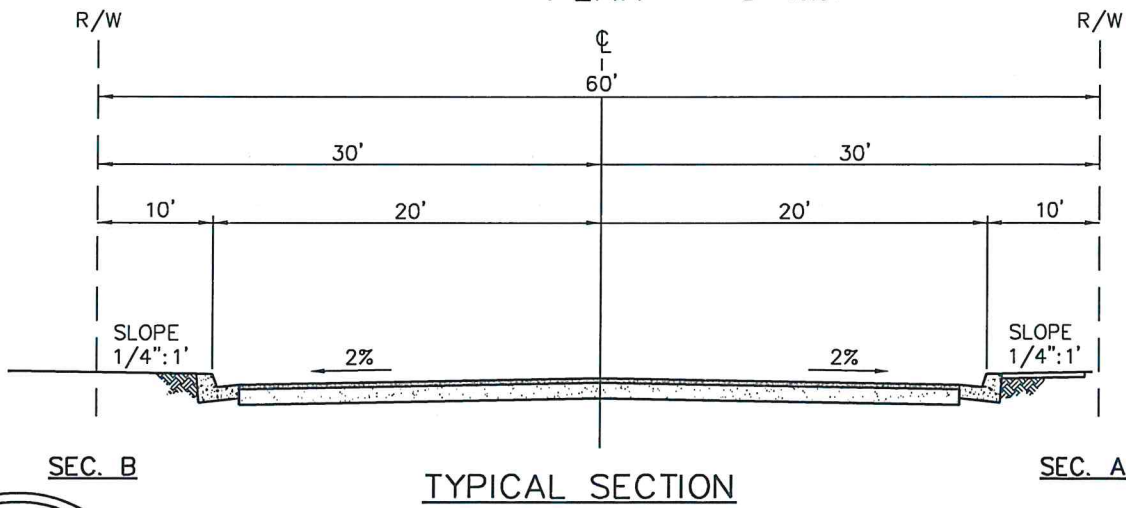
REVISION

BY DATE



CURB CURVE DATA

(A) $\Delta = 38^{\circ}44'22''$	(B) $\Delta = 257^{\circ}28'44''$
R = 60.00'	R = 40.00'
T = 21.09'	L = 179.75'
L = 40.57'	



TYPICAL SECTION



NOTES:

1. STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOIL TESTS AND SO INDICATED ON CONSTRUCTION PLANS.
2. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE EASEMENTS.
3. 0.4% GRADE MIN. ON GUTTER OF BULB.
4. TILT SECTION SHALL CONFORM TO LOCAL STREET STANDARD NO. 101.

APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Gish... DATE *4/2/20*

APPROVED: TOWN ENGINEER
Noel Owsley R.C.E. 39827

▲ REVISED TO REFLECT CURRENT GENERAL PL.	-N-	1/3/18
▲ REVISED R/W WIDTH	-N-	8/30/24
REVISION	BY	DATE

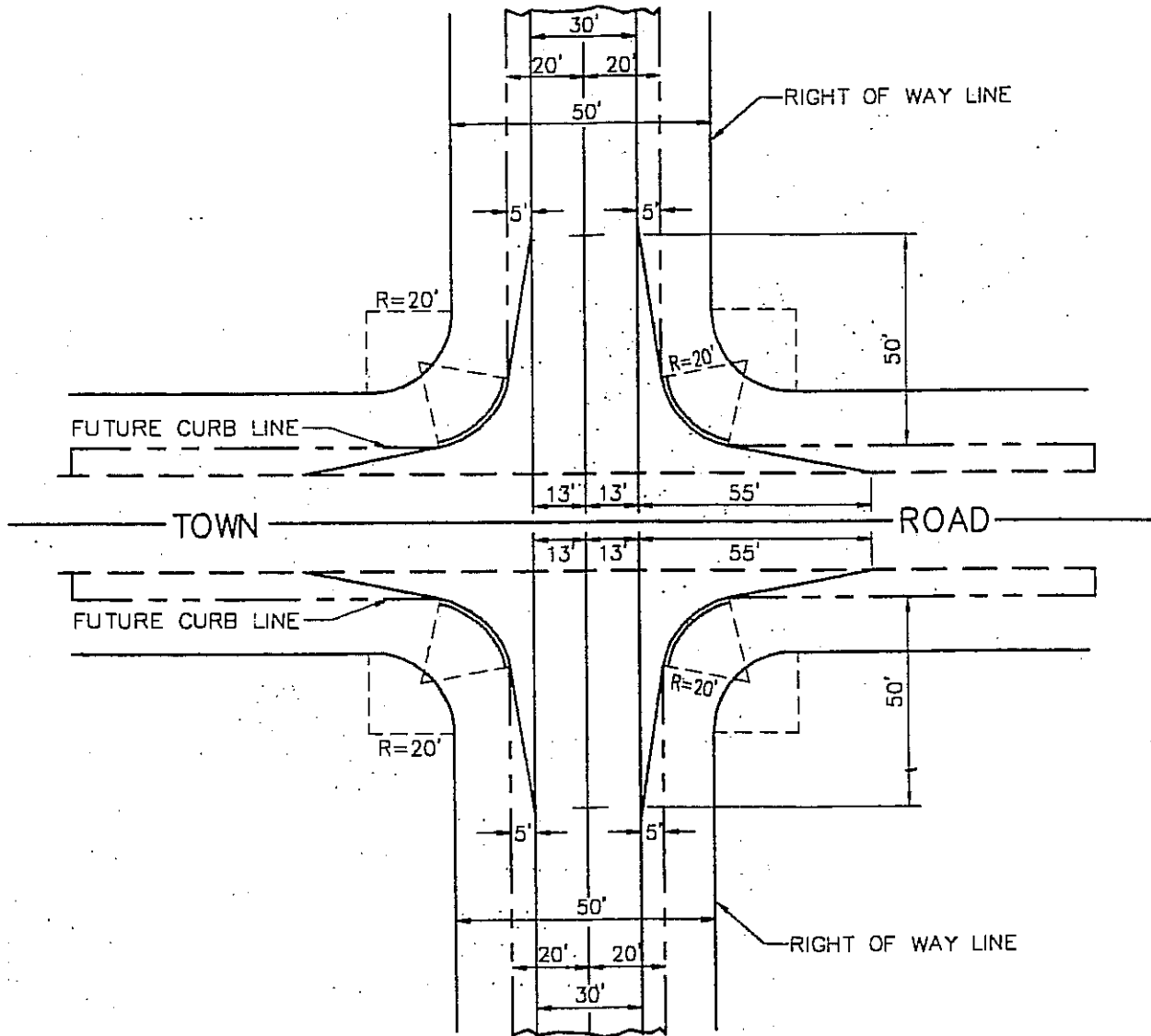


Town of
Yucca Valley

LOCAL STREET
 CUL-DE-SAC

STANDARD DRAWING NO. 112

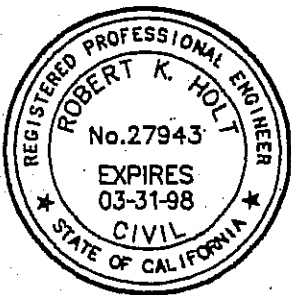
FULL WIDTH CONSTRUCTION



HALF WIDTH CONSTRUCTION

NOTES:

1. SEE STANDARD NO. 101 FOR ROADWAY SECTIONS.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

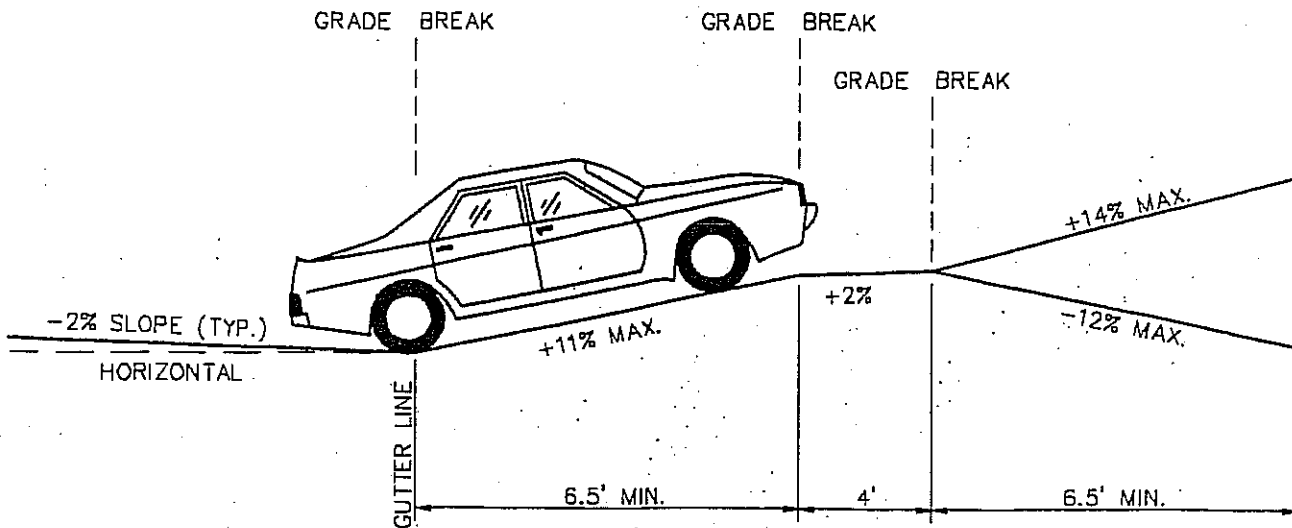
INTERSECTION DESIGN
RURAL LOCAL ROAD

STANDARD DRAWING NO. 120

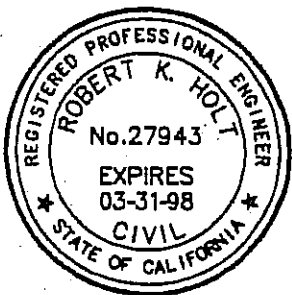
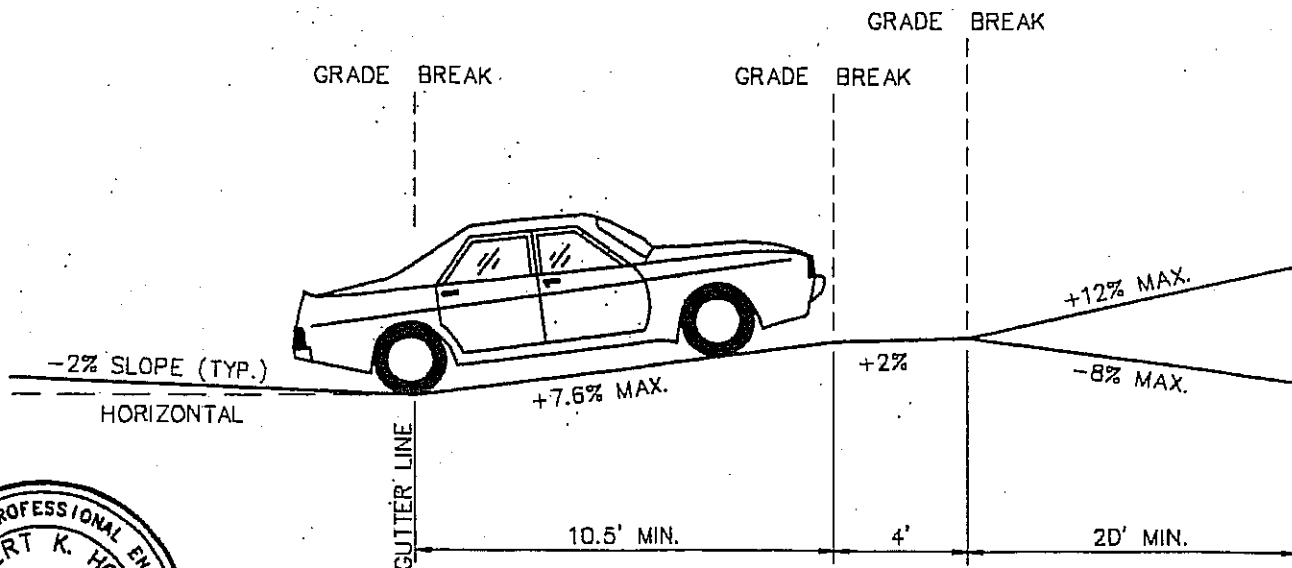
REVISION

BY DATE

RESIDENTIAL DRIVEWAY



COMMERCIAL DRIVEWAY



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE



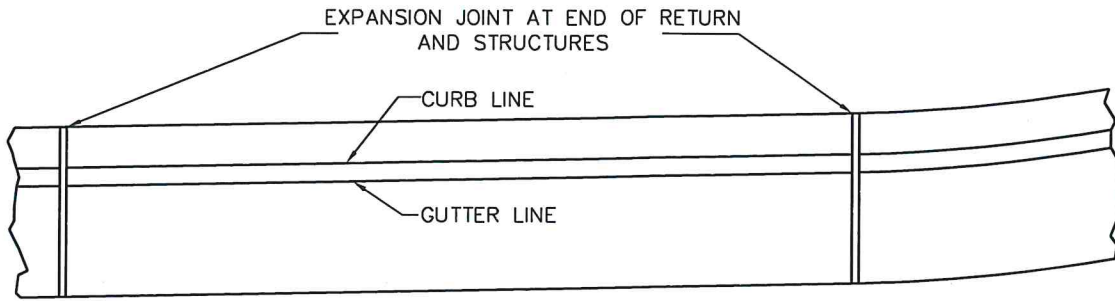
Town of
Yucca Valley

DRIVEWAY GRADES

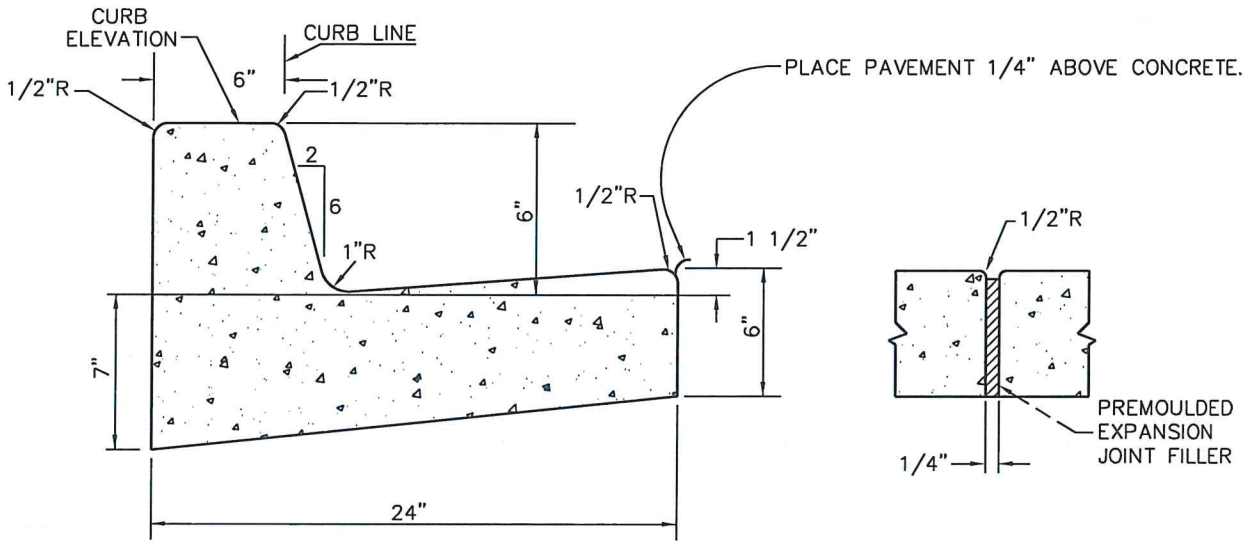
STANDARD DRAWING NO. 121

Section 2 – Curb and Gutter, Sidewalk and Asphalt Concrete Details

<u>Drawing No.</u>	<u>Description</u>
200	6" Curb and Gutter
200A	Type "D" "Barrier" Curb
202	Asphalt Concrete Dike
203	Traversable Dike
210	Residential Driveway Approach Without Curb
211	Residential Driveway Approach With Curb
212	Commercial Driveway Approach Without Curb
213	Commercial Driveway Approach With Curb
214	Driveway Spacing
220	Sidewalk
221	Sidewalk Ramp
230	Cross Gutter and Spandrel
231	Alley
240	Street Pavement Design
241	Trench Pavement Replacement Detail
242	Median Island Treatment
242A	Median Island Treatment – Planting/Irrigation/ Ground Cover
242B	Median Island Treatment – Alternate Landscaping & Concrete Areas



PLAN



SECTION

EXPANSION JOINT

NOTES:

1. CURB AND GUTTER SHALL BE CONSTRUCTED MONOLITHICALLY OF CLASS "B" CONCRETE.
2. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICATED.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10-FOOT INTERVALS, EXCEPT THAT THE INTERVAL SHALL BE VARIED TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS.
4. CURING COMPOUND SHALL BE SPRAYED UNIFORMLY ON EXPOSED SURFACES.
5. WHEN CURB AND GUTTER IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAW CUT.
6. 0.0495 CUBIC YARDS PER LINEAL FOOT. 20.2 LINEAL FEET PER CUBIC YARD.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gish DATE *4/21/20*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

REVISOR TO REFLECT CURRENT GENERAL PL. -N- 8/24/16

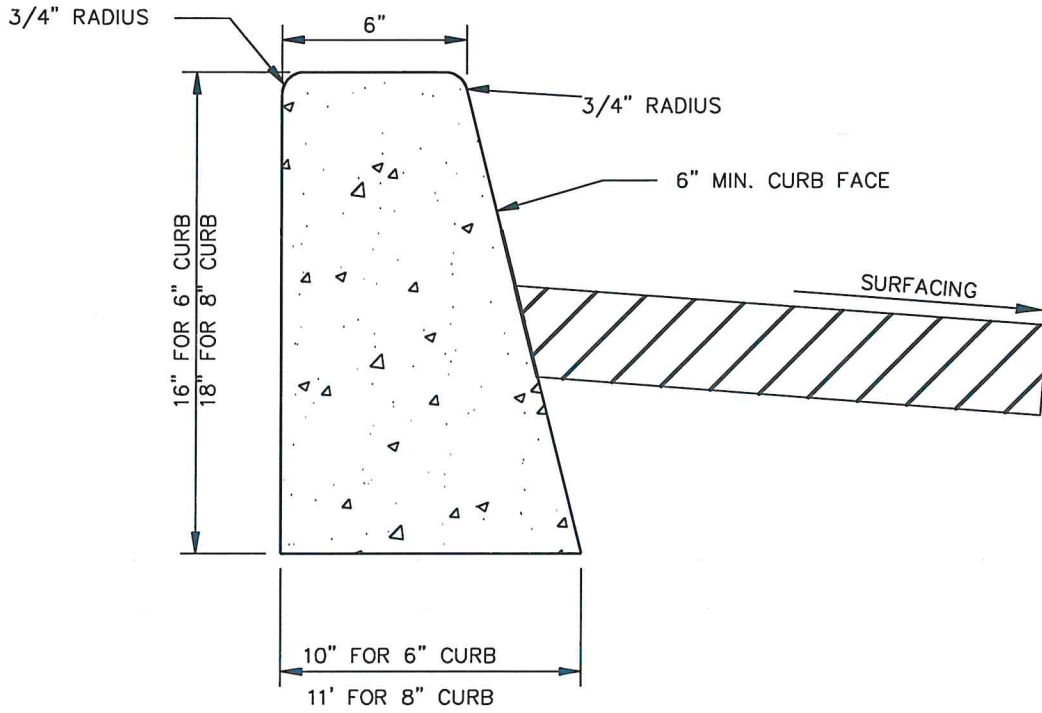
REVISION	BY	DATE



Town of
Yucca Valley

6"
CURB AND GUTTER

STANDARD DRAWING NO. 200



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Cristini

DATE 4/21/25

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827

NEW STANDARD

-N- 8/30/24

REVISION

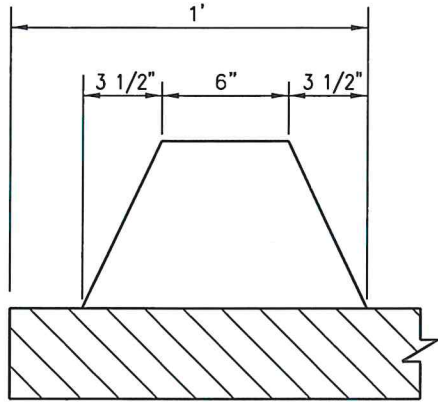
BY DATE



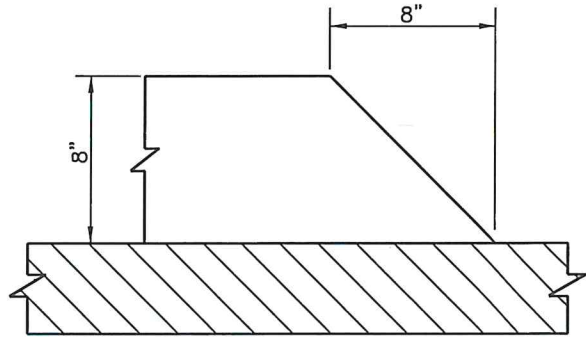
Town of
Yucca Valley

TYPE "D"
"BARRIER" CURB

STANDARD DRAWING NO. 200A



SECTION



END CUTOFF

8" DIKE

NOTES:

1. DIKE SHALL BE CONSTRUCTED OF 3/8" TYPE "A" ASPHALT CONCRETE PG 70-10.
2. PAINT BINDER SHALL BE PLACED ON EXISTING ASPHALT CONCRETE PAVEMENT PRIOR TO THE INSTALLATION OF THE DIKE.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Christ DATE *4/21/25*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

▲	REVISED TO REFLECT CURRENT GENERAL PL.	-N-	8/24/16
▲	REVISED ASPHALT TYPE	-N-	8/30/24

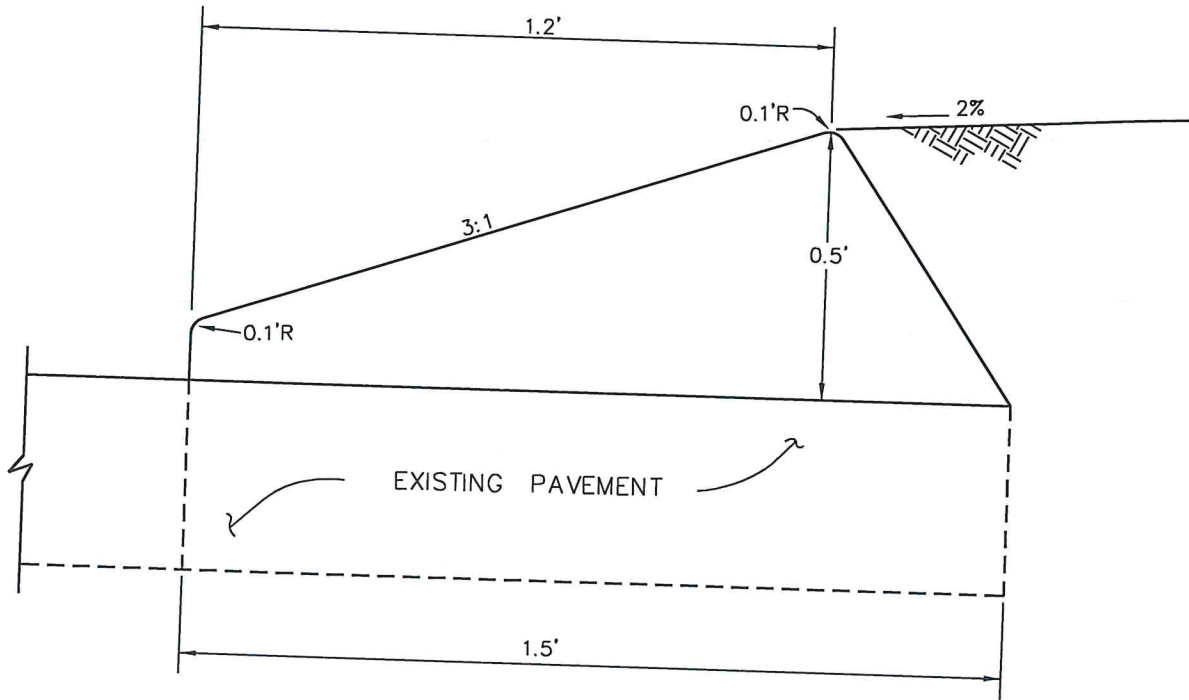
REVISION	BY	DATE



Town of
Yucca Valley

ASPHALT CONCRETE
DIKE

STANDARD DRAWING NO. 202



TYPICAL SECTION

NOTES:

1. DIKE SHALL BE CONSTRUCTED OF 3/8" TYPE "A" ASPHALT CONCRETE PG 70-10.
2. PAINT BINDER SHALL BE PLACED ON EXISTING ASPHALT CONCRETE PAVEMENT PRIOR TO THE INSTALLATION OF THE DIKE.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Grist

DATE *4/24/16*

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827



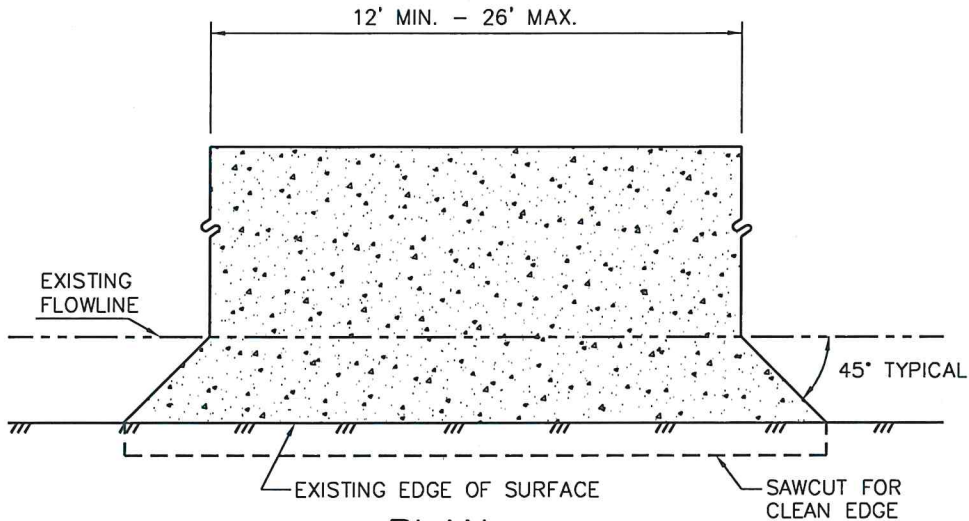
Town of
Yucca Valley

▲ REVISED TO REFLECT CURRENT GENERAL PL.	-N-	8/24/16
▲ REVISED ASPHALT TYPE	-N-	8/30/24

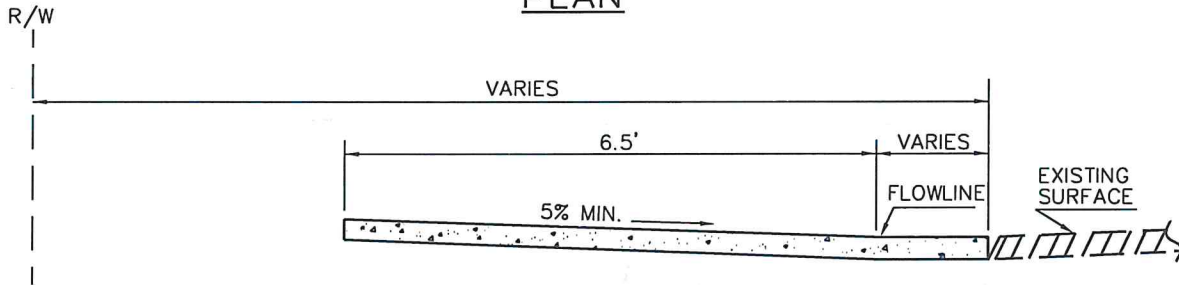
TRAVERSABLE DIKE

REVISION	BY	DATE
----------	----	------

STANDARD DRAWING NO. 203



PLAN



SECTION

NOTES:

1. DRIVEWAY APPROACH LOCATION SHALL BE AS APPROVED BY TOWN AND PER STANDARD NO. 214.
2. SURFACING MATERIAL SHALL BE:
 - A. TYPE B ASPHALT CONCRETE GRADE PG 70-10, 1/2" MAX. MED., 3" THICK.
 - B. PORTLAND CEMENT CONCRETE CLASS 'B' 4" THICK MAY BE USED.
 - C. UNPAVED, IF THE ROADWAY IS UNPAVED.
3. FLOWLINE GRADE SHALL BE MAINTAINED.
4. WHERE EXISTING BERM IS REMOVED, THE APPROACH SHALL BE CONSTRUCTED TO AN ELEVATION EQUAL IN HEIGHT TO CONTROL DRAINAGE.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Dicht DATE *4/21/25*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

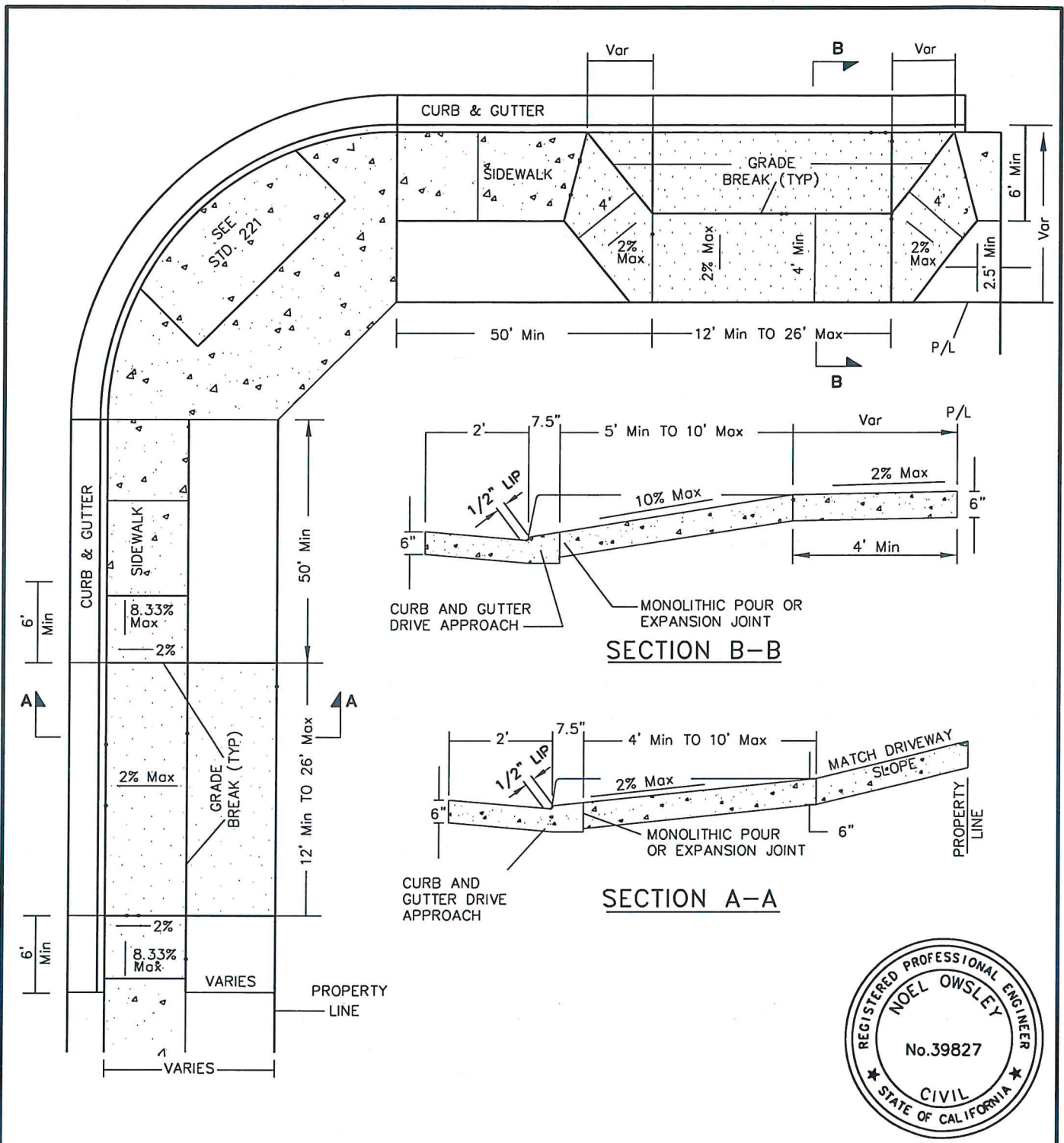


Town of
Yucca Valley

RESIDENTIAL DRIVEWAY
APPROACH
WITHOUT CURB

STANDARD DRAWING NO. 210

▲	REVISED TO REFLECT CURRENT GENERAL PL.	-N-	8/24/16
▲	REVISED ASPHALT TYPE	-N-	8/30/24
	REVISION	BY	DATE



APPROVED: DIRECTOR OF PUBLIC WORKS	
<i>Alex Dist...</i>	DATE <i>4/2/20</i>
APPROVED: TOWN ENGINEER	
<i>Noel Owsley</i>	R.C.E. <i>39827</i>
<input checked="" type="checkbox"/> REVISED STANDARD	-N- 1/26/09
REVISION	BY DATE

Town of
Yucca Valley

RESIDENTIAL DRIVEWAY
APPROACH

SHEET 1 OF 2

STANDARD DRAWING NO. 211

NOTES:

1. DRIVE APPROACH SHALL BE CONSTRUCTED TO MEET CURRENT A.D.A. STANDARDS.
2. LIP AT BOTTOM OF DRIVEWAY RAMP, 1/2" ABOVE GUTTER GRADE.
3. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE WITH COMPACTION OF 95% TO A DEPTH OF 12".
4. ALL CONCRETE SURFACES SHALL BE FINISHED TO GRADE WITH A FLOAT, TROWELED SMOOTH AND FINISHED WITH A BROOM.
5. EXPANSION JOINT(S) SHALL CONSIST OF 0.25" TO 0.5" PREMOLDED JOINT MATERIAL APPROVED FOR SUCH USE.
6. DRIVEWAY APPROACH TO CURB AND GUTTER TO BE POURED AS MONOLITHIC OR WITH AN EXPANSION JOINT.
7. APARTMENTS OF 4 UNITS OR LESS SHALL USE THIS DRIVEWAY APPROACH.
8. APARTMENTS OF MORE THAN 4 UNITS SHALL USE THE COMMERCIAL DRIVEWAY APPROACH PLATE.
9. SURFACING SHALL BE PORTLAND CEMENT CONCRETE CLASS "B".



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gish. DATE 4/21/25

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



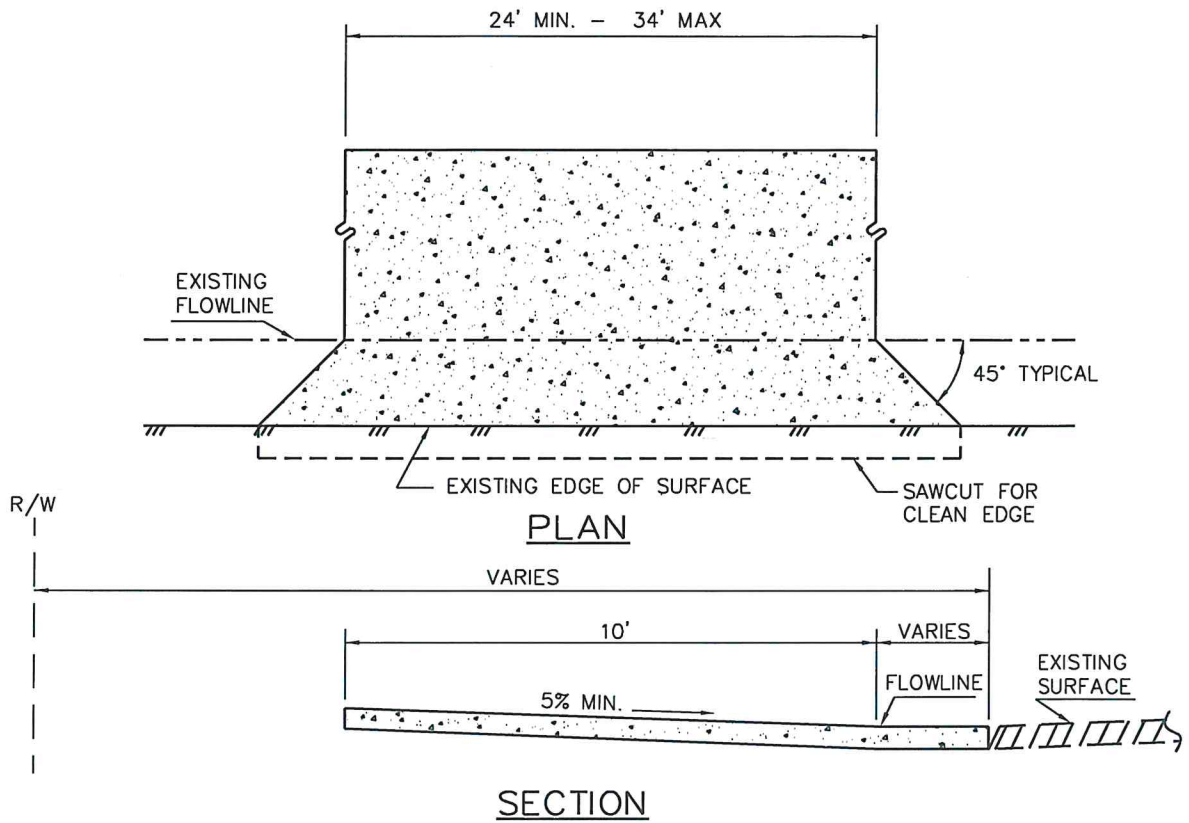
Town of
Yucca Valley

RESIDENTIAL DRIVEWAY
APPROACH

SHEET 2 OF 2

STANDARD DRAWING NO. 211

▲ REVISED STANDARD	-N-	1/26/09
REVISION	BY	DATE



NOTES:

1. DRIVEWAY APPROACH LOCATION SHALL BE AS APPROVED BY TOWN AND PER STANDARD NO. 214.
2. SURFACING MATERIAL SHALL BE:
 - A. TYPE B ASPHALT CONCRETE GRADE PG 70-10, 1/2" MAX. MED., 3" THICK.
 - B. PORTLAND CEMENT CONCRETE CLASS 'B' 6" THICK MAY BE USED.
 - C. UNPAVED, IF THE ROADWAY IS UNPAVED.
3. FLOWLINE GRADE SHALL BE MAINTAINED.
4. WHERE EXISTING BERM IS REMOVED, THE APPROACH SHALL BE CONSTRUCTED TO AN ELEVATION EQUAL IN HEIGHT TO CONTROL DRAINAGE.



APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Dist. DATE *4/21/22*

APPROVED: TOWN ENGINEER
Noel Owsley R.C.E. 39827

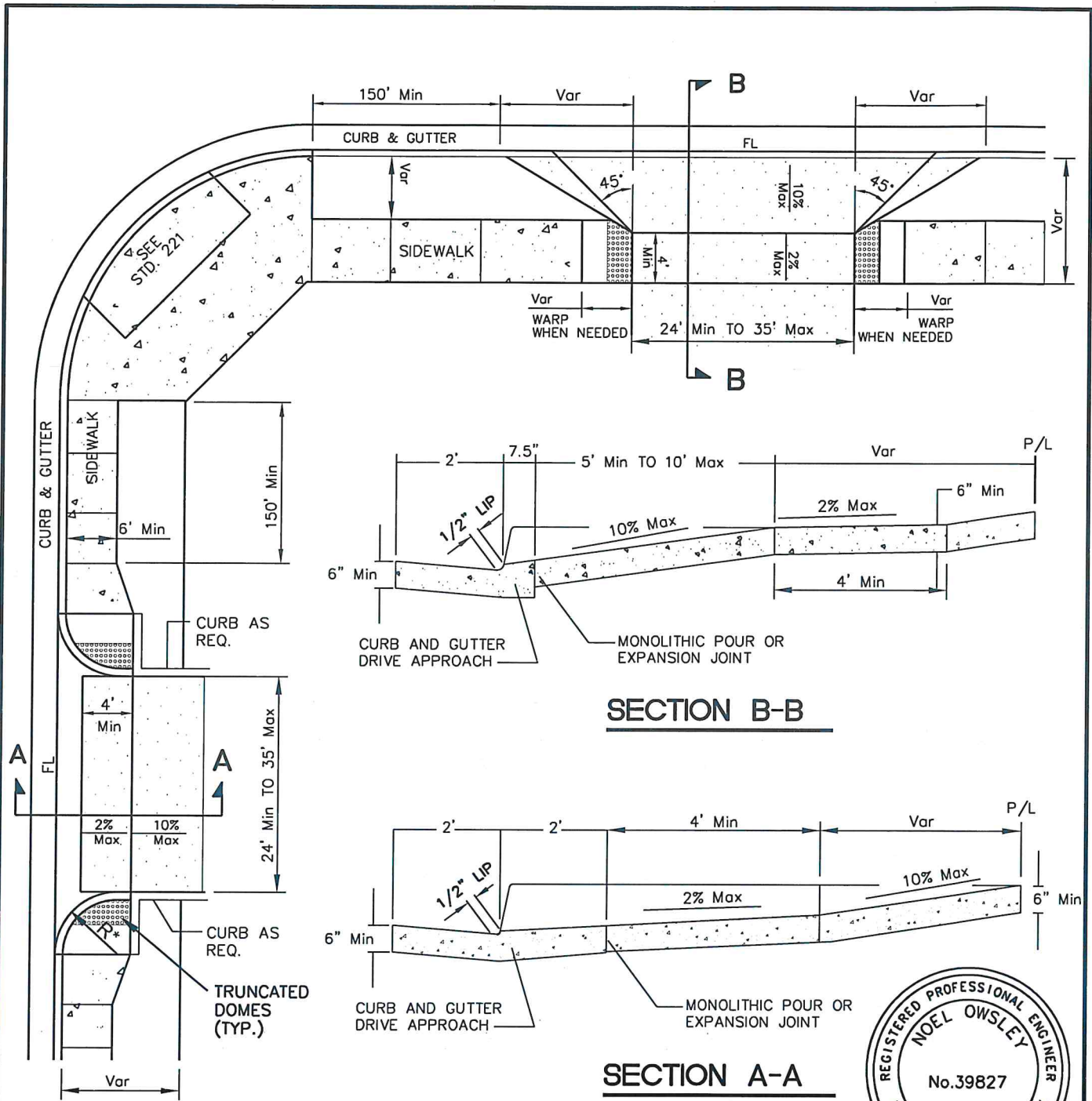
▲	REVISED TO REFLECT CURRENT GENERAL PL.	-N-	8/24/16
▲	REVISED ASPHALT TYPE	-N-	8/30/24
	REVISION	BY	DATE



Town of
Yucca Valley

COMMERCIAL DRIVEWAY
 APPROACH
 WITHOUT CURB

STANDARD DRAWING NO. 212



R* - MIN. RADIUS = 15'



APPROVED: DIRECTOR OF PUBLIC WORKS	
<i>Alex Orsata</i>	DATE <i>4/21/25</i>
APPROVED: TOWN ENGINEER	
<i>Noel Owsley</i>	R.C.E. 39827
▲ REVISED STANDARD	-N- 1/26/09
▲ REVISED RADIUS	-N- 8/30/24
REVISION	BY DATE



Town of
Yucca Valley

COMMERCIAL DRIVEWAY
APPROACH

SHEET 1 OF 2

STANDARD DRAWING NO. 213

NOTES:

1. DRIVE APPROACH SHALL BE CONSTRUCTED TO MEET CURRENT A.D.A. STANDARDS..
2. SEE STANDARD 221 FOR A.D.A. RAMP REQUIREMENTS.
3. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE WITH COMPACTION OF 95% TO A DEPTH OF 12".
4. ALL CONCRETE SURFACES SHALL BE FINISHED TO GRADE WITH A FLOAT, TROWELED SMOOTH AND FINISHED WITH A BROOM.
5. EXPANSION JOINT(S) SHALL CONSIST OF 0.25" TO 0.5" PREMOLDED JOINT MATERIAL APPROVED FOR SUCH USE.
6. DRIVEWAY APPROACH TO CURB AND GUTTER TO BE POURED AS MONOLITHIC OR WITH AN EXPANSION JOINT.
7. APARTMENTS OF 4 UNITS OR LESS SHALL USE THE RESIDENTIAL DRIVEWAY APPROACH STANDARD.
8. APARTMENTS OF MORE THAN 4 UNITS SHALL USE THE COMMERCIAL DRIVEWAY APPROACH STANDARD.
9. SURFACING SHALL BE PORTLAND CEMENT CONCRETE CLASS "B".



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Owsley DATE 4/21/25

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



Town of
Yucca Valley

COMMERCIAL DRIVEWAY
APPROACH

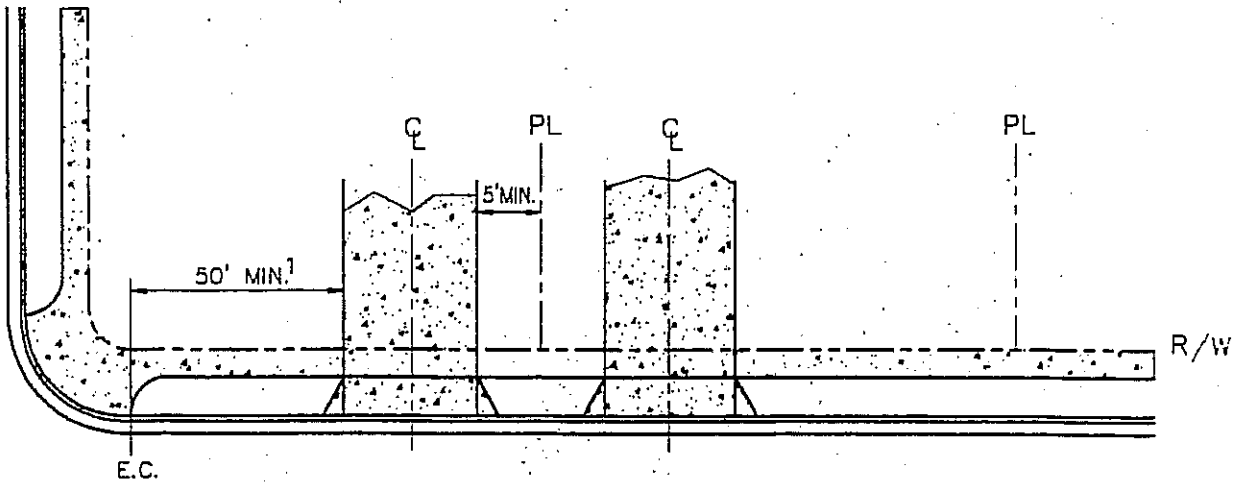
SHEET 2 OF 2

STANDARD DRAWING NO. 213

▲ REVISD STANDARD	-N-	1/26/09
▲ REVISD RADIUS	-N-	8/30/24
REVISION	BY	DATE

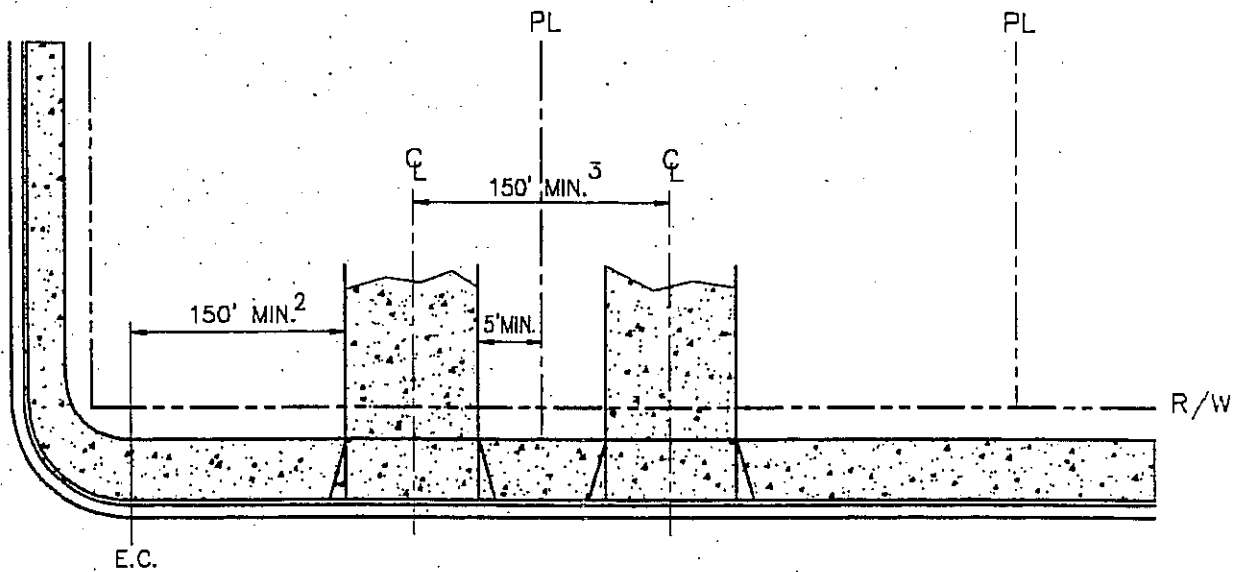
LOCAL STREET - COLLECTOR ROAD

MAJOR HIGHWAY
SECONDARY HIGHWAY

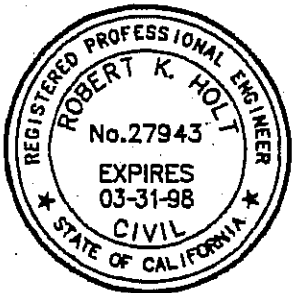


RESIDENTIAL DRIVEWAY

MAJOR HIGHWAY
SECONDARY HIGHWAY



COMMERCIAL DRIVEWAY



NOTES:

- ¹ 75' ON COLLECTOR ROADS, EXCEPT 50' IF ULT. A.D.T. IS LESS THAN 3000.
- ² MAY BE INCREASED 75' ON COLLECTOR ROADS AND 50' ON LOCAL STREETS TO PROVIDE ADDITIONAL CLEARANCE FOR LEFT TURN STORAGE.
- ³ MAY BE DECREASED WITH APPROVAL FROM TOWN PLANNER.

APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



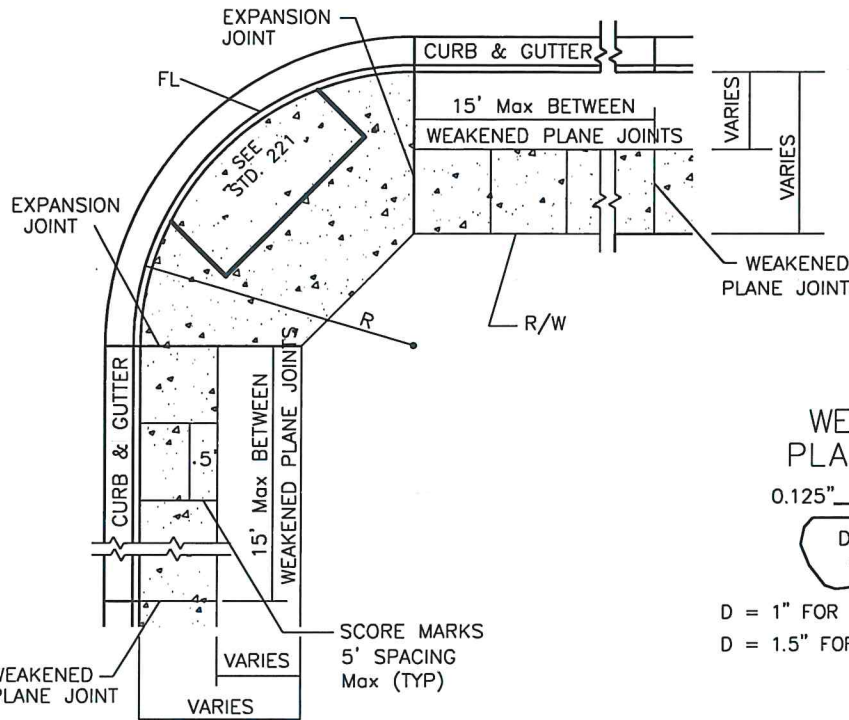
Town of
Yucca Valley

DRIVEWAY SPACING

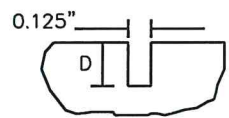
STANDARD DRAWING NO. 214

REVISION

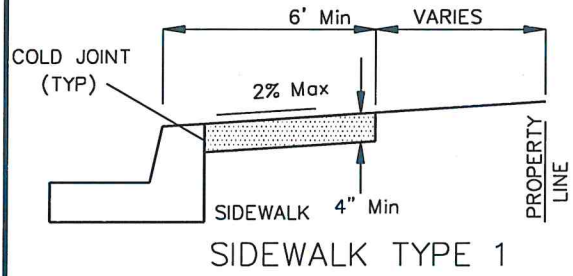
BY DATE



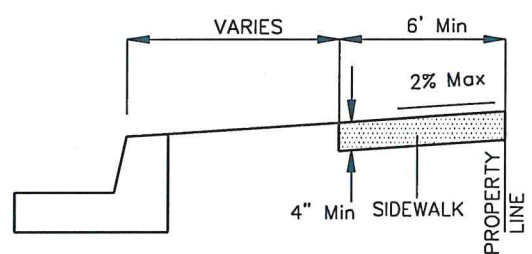
WEAKENED PLANE JOINT



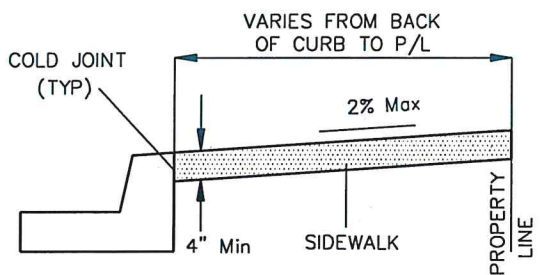
D = 1" FOR 4" THICK CONCRETE
D = 1.5" FOR 6" THICK CONCRETE



SIDEWALK TYPE 1



SIDEWALK TYPE 2



SIDEWALK TYPE 3



APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Chisholm DATE 4/21/21

APPROVED: TOWN ENGINEER
Noel Owsley R.C.E. 39827



Town of
Yucca Valley

SIDEWALK

1	REVISED STANDARD	-N-	2/3/09
2	REVISED SIDEWALK TYPE 1	-N-	8/30/24
	REVISION	BY	DATE

SHEET 1 OF 2

STANDARD DRAWING NO. 220

GENERAL NOTES:

1. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION, WITH COMPACTION OF 95% TO A DEPTH OF 1.0 FEET.
2. MINIMUM GRADE FOR CURB AND GUTTER SHALL BE 0.2%. EXCEPTIONS TO THE MINIMUM GRADE SHALL BE APPROVED BY THE TOWN ENGINEER.
3. CONCRETE SURFACE SHALL BE FINISHED TO GRADE AND CROSS SECTION WITH A FLOAT, TROWELED SMOOTH, AND FINISHED WITH A BROOM.
4. EXPANSION JOINT FILLER MATERIAL SHALL CONSIST OF PREFORMED STRIPS OF A DURABLE, RESILIENT COMPOUND.
5. SIDEWALK SCORE MARKS MINIMUM DEPTH OF 0.125".
6. ROLL-TOP CURB & GUTTER ONLY ALLOWED IN INDUSTRIAL ZONES WITH APPROVAL OF THE TOWN ENGINEER.
7. SIDEWALK TO CURB AND GUTTER NOT TO BE POURED AS MONOLITHIC.
8. PROPERTY AT INTERSECTIONS SHALL BE A 20 FOOT BY 20 FOOT CUT OFF FOR WHEELCHAIR RAMPS.
9. SIDEWALK SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.

R = 25' FOR RESIDENTIAL CURB RETURNS
 R = 35' FOR COMMERCIAL/INDUSTRIAL CURB RETURNS



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Oisht. DATE 4/21/21

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



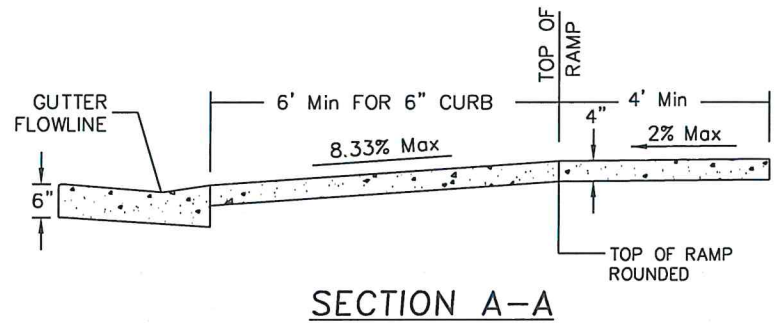
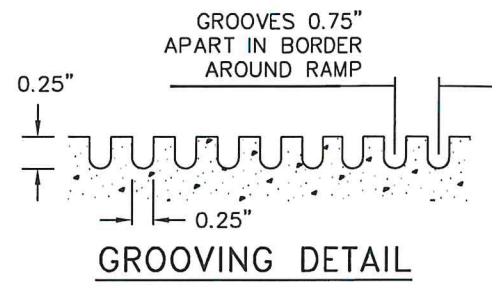
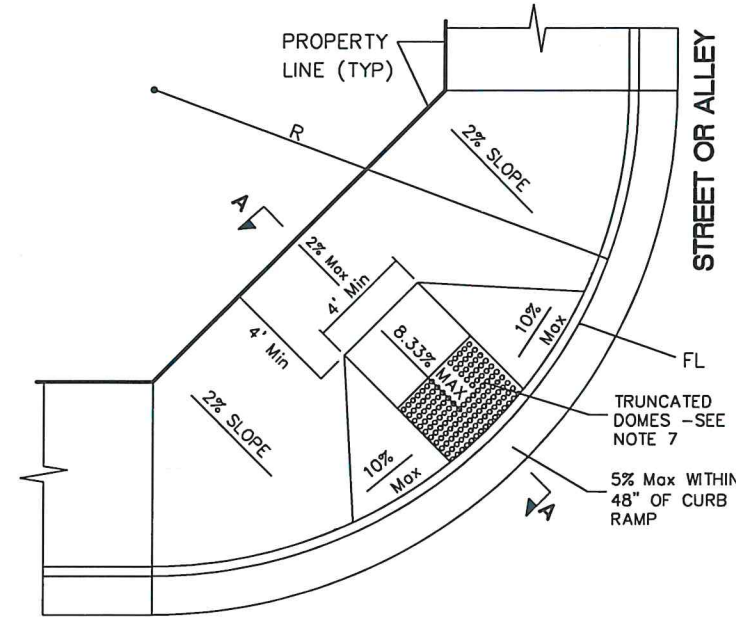
Town of
Yucca Valley

SIDEWALK

SHEET 2 OF 2

STANDARD DRAWING NO. 220

1	REVISED STANDARD	-N-	2/3/09
2	REVISED SIDEWALK TYPE 1	-N-	8/30/24
	REVISION	BY	DATE



STREET OR ALLEY

STREET OR ALLEY

SECTION A-A



R = 25' FOR RESIDENTIAL CURB RETURNS
 R = 35' FOR COMMERCIAL/INDUSTRIAL CURB RETURNS

APPROVED: DIRECTOR OF PUBLIC WORKS
 Alex Owsley DATE 4/21/24

APPROVED: TOWN ENGINEER
 Noel Owsley R.C.E. 39827

▲ REVISED STANDARD	-N-	2/3/09
▲ REVISED SIDEWALK TYPE 1	-N-	8/30/24
REVISION	BY	DATE

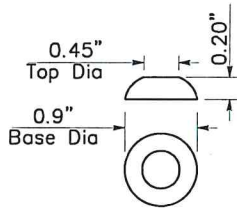


Town of
Yucca Valley

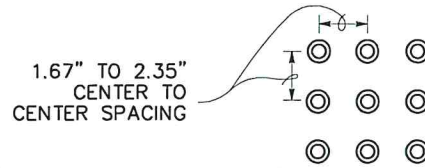
SIDEWALK RAMP

SHEET 1 OF 2

STANDARD DRAWING NO. 221



RAISED TRUNCATED DOME



RAISED TRUNCATED DOME
PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE

NOTES:

1. CURB RAMP SHALL BE CONSTRUCTED TO MEET CURRENT A.D.A. STANDARDS.
2. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE WITH COMPACTION OF 95% TO A DEPTH OF 12".
3. ALL CONCRETE SURFACES SHALL BE FINISHED TO GRADE WITH A FLOAT, TROWELED SMOOTH AND FINISHED WITH A BROOM.
4. EXPANSION JOINT(S) SHALL CONSIST OF 0.5" PREMOLDED JOINT MATERIAL APPROVED FOR SUCH USE.
5. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 0.25" GROOVES, 0.75" APART. SEE GROOVING DETAIL.
6. CURB RAMP SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. COLOR YELLOW CONFORMING TO FEDERAL COLOR NO. 33538.
7. BECAUSE OF EXISTING CONDITIONS, OTHER CURB RAMP CONFIGURATIONS MAY BE NECESSARY. THESE SHALL MEET THE STATE OF CALIFORNIA ARCHITECTURAL BARRIERS LAWS AND BE APPROVED PRIOR TO INSTALLATION.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Christo DATE 4/2/25

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



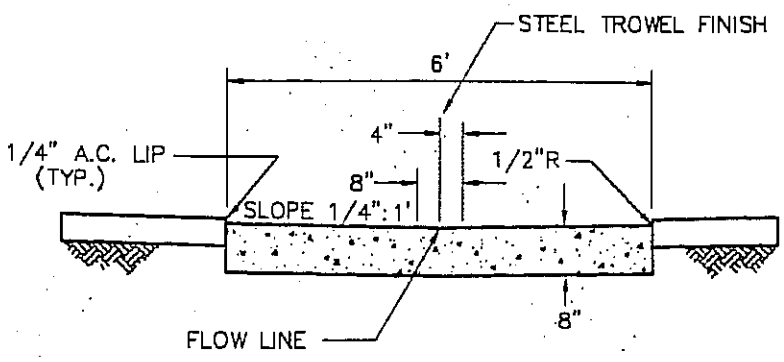
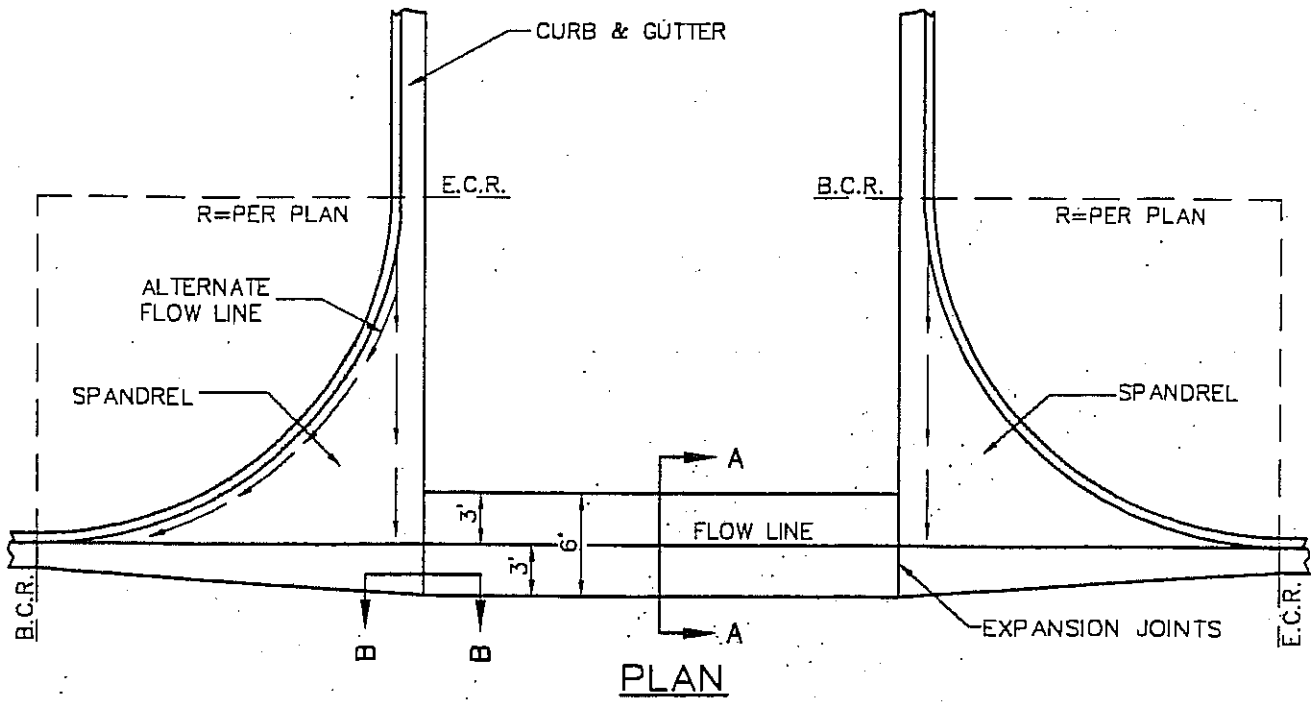
Town of
Yucca Valley

SIDEWALK RAMP

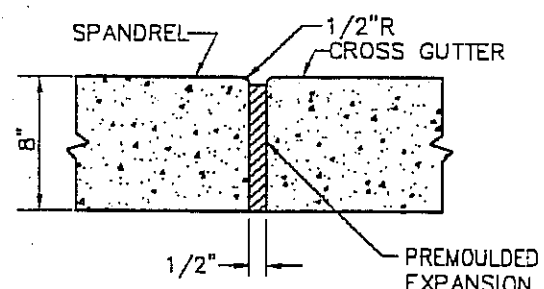
SHEET 2 OF 2

STANDARD DRAWING NO. 221

1	REVISED STANDARD	-N-	2/3/09
2	REVISED SIDEWALK TYPE 1	-N-	8/30/24
	REVISION	BY	DATE



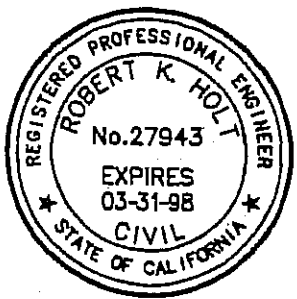
SECTION A-A



SECTION B-B

NOTES:

1. CROSS GUTTER SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.
2. THE STRAIGHT GRADE BETWEEN B.C.R.'S MAY BE ALTERED WHERE EXCESSIVE GRADES EXIST.
3. SPANDREL SHALL BE 8" THICKNESS CLASS "B" CONCRETE.
4. VARIABLE CURB FACE ALLOWED FOR DRAINAGE PURPOSES.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

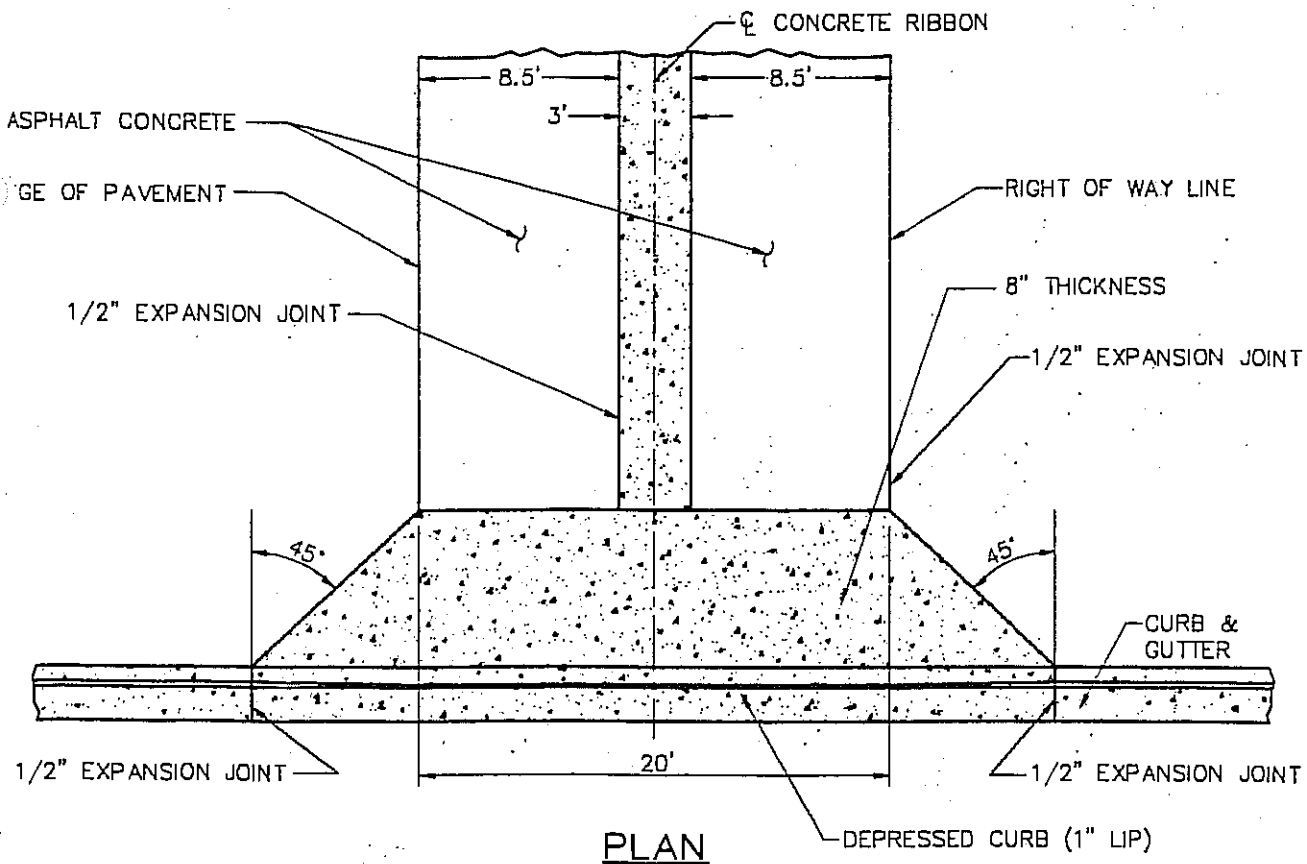


Town of
Yucca Valley

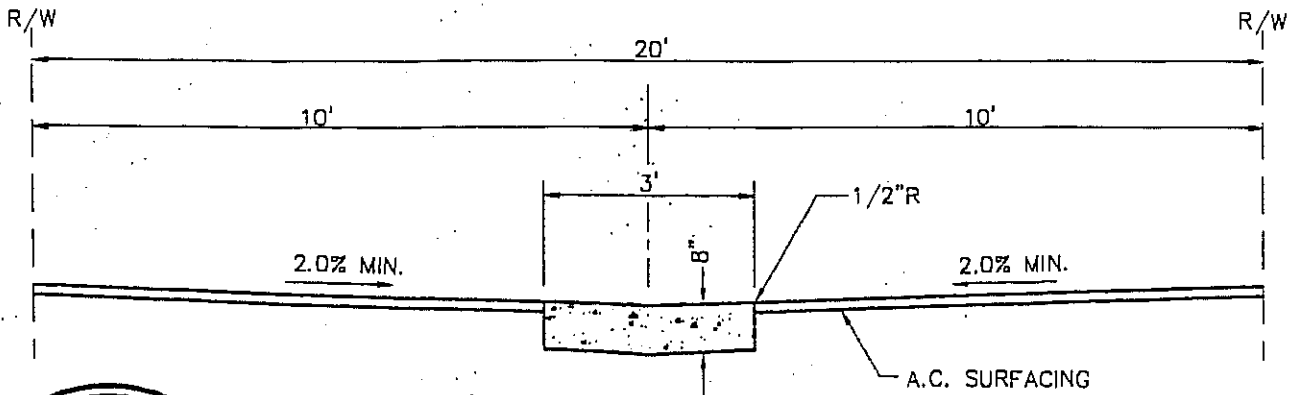
CROSS GUTTER
 AND SPANDREL

REVISION	BY	DATE

STANDARD DRAWING NO. 230



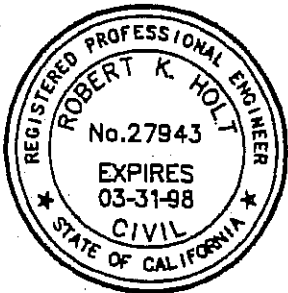
PLAN



TYPICAL SECTION

NOTES:

1. CONCRETE RIBBON SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.
2. ASPHALT CONCRETE SHALL HAVE A MINIMUM THICKNESS OF FOUR INCHES.
3. APPROACH SHALL BE CONSTRUCTED AS A COMMERCIAL D/W PER STD. 213.



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



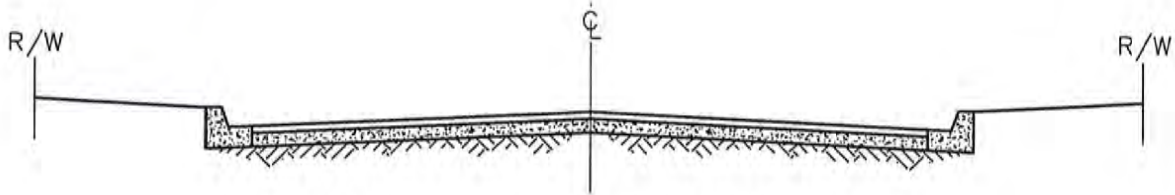
*Town of
Yucca Valley*

ALLEY

REVISION

BY DATE

STANDARD DRAWING NO. 231



MINIMUM PAVEMENT STRUCTURAL SECTIONS

STREET CLASSIFICATION	MIN. TRAFFIC INDEX	MIN. A.C. THICKNESS	PLACEMENT LIFTS
ALLEY	N/A	4"	2 - 2" LIFTS
LOCAL ROAD	5.5	4"	2 - 2" LIFTS
COLLECTOR ROAD	8	4"	2 - 2" LIFTS
ARTERIAL ROAD	10	6"	2 - 3" LIFTS
HIGHWAY	12	*	*

ASHPALT REQUIREMENTS

ASPHALT SHALL BE CALTRANS TYPE A, PG 70-10 BINDER.
BASE COURSE SHALL BE 3/4", SURFACE COURSE SHALL BE 1/2"

COMPACTION REQUIREMENTS

95% FOR TOP 12" OF SUBGRADE, 95% FOR AGG. BASE

NOTE: PAVEMENT THICKNESS SHOWN ABOVE ARE MINIMUMS.
SOILS REPORTS MAY REQUIRE GREATER THICKNESS OF
STRUCTURAL SECTION

* - CONTACT CALTRANS FOR THICKNESS REQUIREMENTS ON
STATE HIGHWAYS



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Qishda DATE 11/17/16

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827



Town of
Yucca Valley

STREET PAVEMENT DESIGN

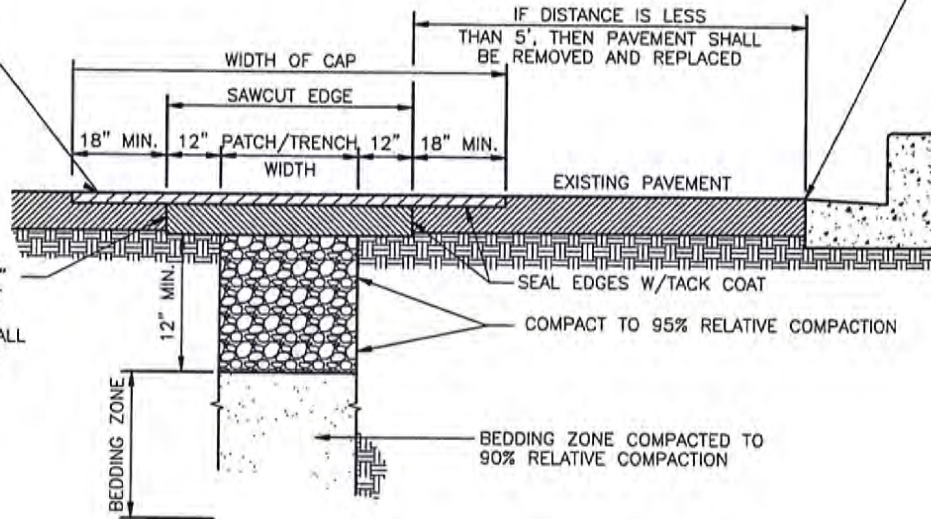
STANDARD DRAWING NO. 240

▲ REVISED TO REFLECT CURRENT GENERAL PL. -N- 9/7/16

REVISION	BY	DATE
----------	----	------

CONTRACTOR SHALL GRIND TOP 1-1/2 INCHES OF EXISTING PAVING AND PLACE AN OVERLAY CAP

EXISTING LIP OF GUTTER, CURB FACE WITHOUT GUTTER OF EDGE OR PAVEMENT AS OCCURS



PAVEMENT ASPHALT SHALL BE 1" THICKER THAN EXISTING ASPHALT PAVEMENT, BUT NOT LESS THAN 4 INCHES. BASE PAVEMENT SHALL BE DONE IN LIFTS OF NO MORE THAN 3 INCHES PER LIFT.

TYPICAL SECTION
NTS

NOTES:

1. IN AREAS WITH CLASS 2 AGG. BASE REPLACE WITH CLASS 2 BASE.
2. COMPACTION ANALYSIS REQUIRED FOR TRENCHES 10 S.F. AND LARGER
3. ASPHALT SHALL BE CALTRANS TYPE A 1/2" HMA WITH PG 70-10 PM OIL BINDER



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gishka DATE *11/17/16*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

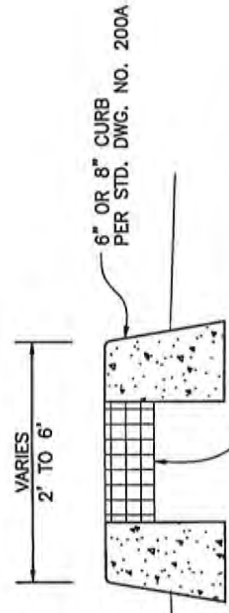
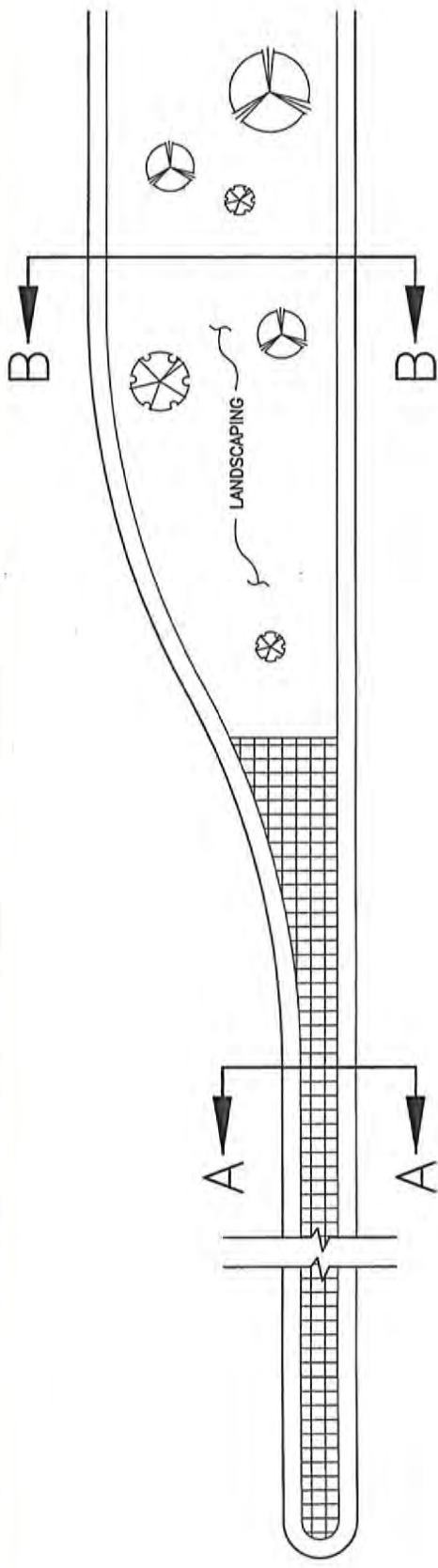


Town of Yucca Valley

TRENCH PAVEMENT
REPLACEMENT DETAIL

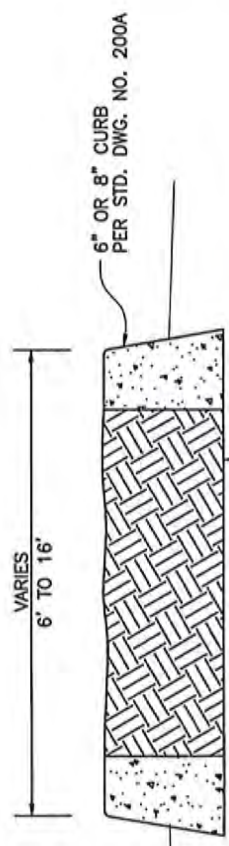
STANDARD DRAWING NO. 241

▲ REVISED DETAIL	-N-	8/24/16
REVISION	BY	DATE



4" STAMPED AND COLORED CONCRETE OR GROUTED ROCK *

SECTION A-A
N.T.S.



SELECT BACKFILL SUITABLE FOR PLANTING AND WATERED **

SECTION B-B
N.T.S.

** SEE STANDARD DRAWING NO. 242A FOR ISLAND LANDSCAPING REQUIREMENTS

* CONCRETE PATTERN SHALL BE SCOFIELD PROFESSIONAL GRADE LITHOFLEX PAVECRAFTERS, NATURAL STONES - ROCK GARDEN, #4340, OR EQUAL
 COLOR ADDITIVE SHALL BE SCOFIELD CHROMIX ADMIXTURE FOR COLOR CONDITIONED CONCRETE, STANDARD COLOR, DESERT SAND (C-11), OR EQUAL



APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Galt DATE *11/10/16*

APPROVED: TOWN ENGINEER
Noel Dwyer R.C.E. 39827

REVISION
 Δ N-11/1/16

REVISION	DATE

Town of Yucca Valley

MEDIAN ISLAND TREATMENT

STANDARD DRAWING NO. 242

PLANTINGS IN LANDSCAPE MEDIANS SHALL BE:

- * RUSSIAN SAGE
- * TEXAS RANGER
- * DESERT SPOON
- * FOUNTAIN GRASS (P. setaceum)
- * LANTANA (L. montevidensis)
- * MEXICAN BIRD OF PARADISE

PLANT SPACING SHALL BE 8' to 10'. LANTANA AND FOUNTAIN GRASS MAY BE GROUPED.

BOULDERS/ROCKS MAY BE PLACED IN MEDIAN ISLANDS, HOWEVER THEY MAY NOT EXTEND MORE THAN 4" ABOVE CURB GRADE.

IRRIGATION REQUIREMENT SHALL BE:

- * MOTOROLA SCORPIO CLOCKS CAPABLE OF COMMUNICATING WITH WITH THE CENTRAL MOTOROLA IRRIGATION SYSTEM.
- * BERMAD MASTER VALVES AND FLOW SENSORS (NORMALLY CLOSED VALVE).
- * HARD PIPE ALL DRIP IRRIGATION USING RAIN BIRD POLYFLEX RISERS WITH 1/2" MALE THREADED BASE.
- * RAIN BIRD XB-10PC-1032 (BLACK) THREADED INLET DRIP EMITTERS.
- * BRASS RAIN BIRD STATION VALVES.
- * RAIN BIRD PRSD PRESSURE REGULATORS PREFERRED.
- * SCHEDULE 40 PVC ON ALL MAIN LINES AND LATERALS UNDER 3".

GROUND COVER SHALL BE DECOMPOSED GRANITE OR PALM SPRINGS GOLD.



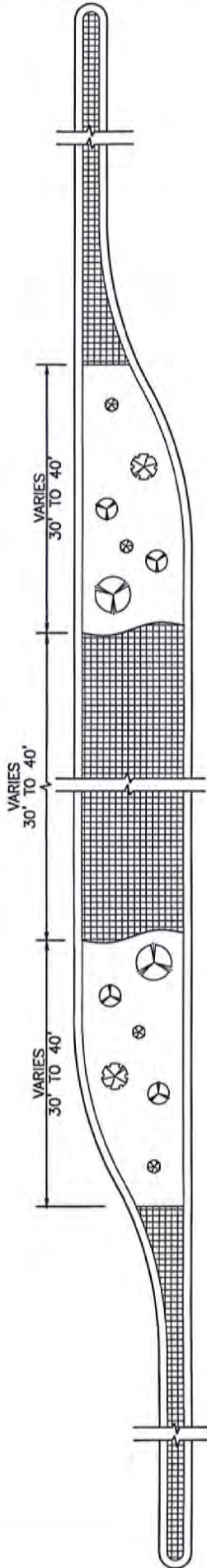
APPROVED: DIRECTOR OF PUBLIC WORKS		
<i>Alex Gish</i>		DATE <i>11/1/16</i>
APPROVED: TOWN ENGINEER		
<i>Noel Owsley</i>		R.C.E. 39827
▲ REVISED	-N-	11/1/16
REVISION	BY	DATE



Town of
Yucca Valley

MEDIAN ISLAND
TREATMENT

STANDARD DRAWING NO. 242A



NOTE: ALTERNATE LANDSCAPING AND CONCRETE AREAS ON 30' TO 40' CENTERS

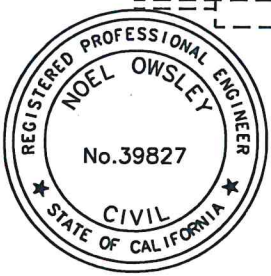
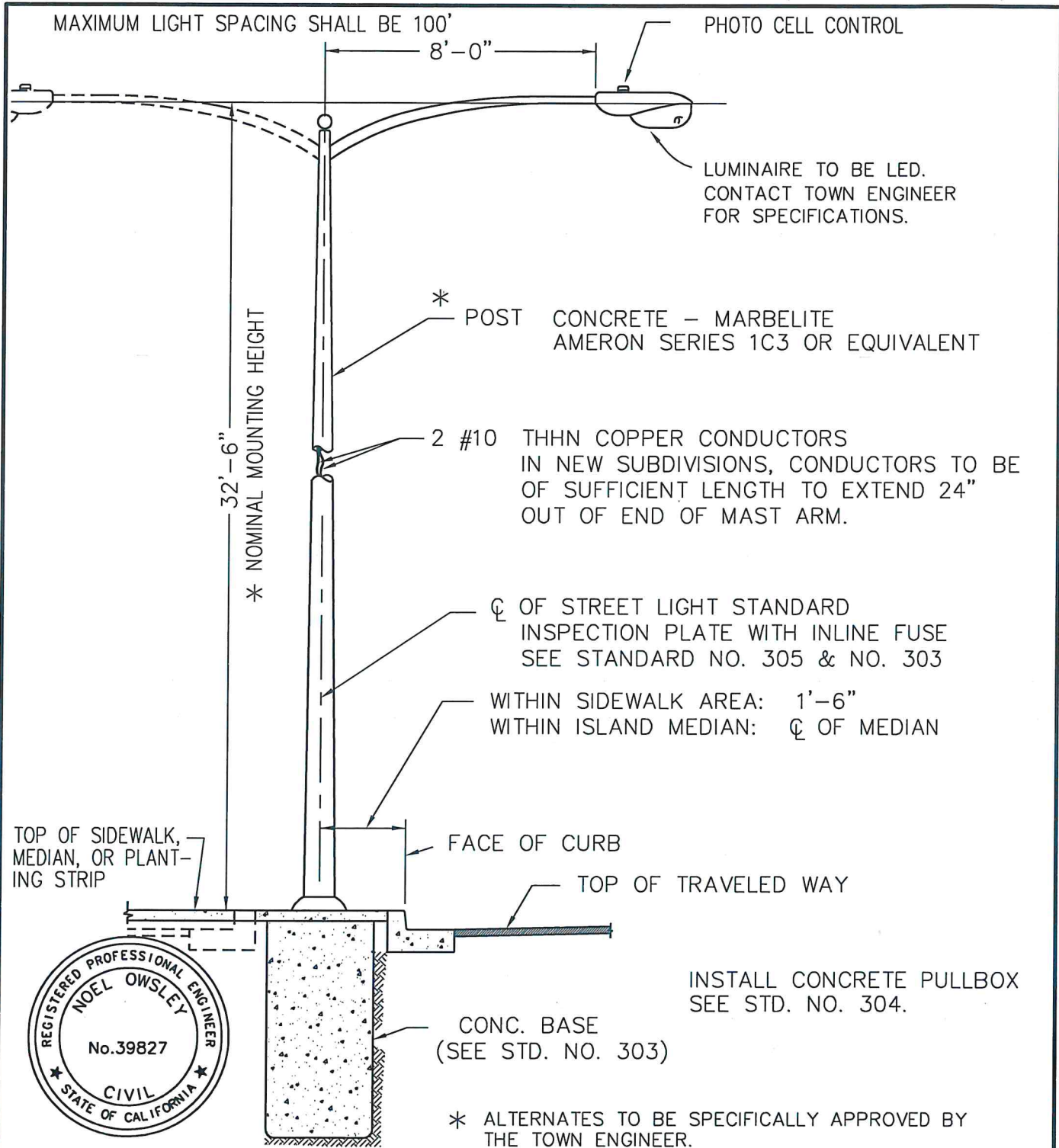


APPROVED: DIRECTOR OF PUBLIC WORKS
Alta Owsley DATE *11/17/16*
 APPROVED: TOWN ENGINEER
Neal Owsley R.C.E. 39827
 REVISION BY DATE
 -N-11/17/16

Town of *Yucca Valley*
 MEDIAN ISLAND TREATMENT
 STANDARD DRAWING NO. 242B

Section 3 – Utility, Street Light, and Sign Details

<u>Drawing No.</u>	<u>Description</u>
300	Street Light for Major and Arterial Streets
301	Street Light for Collector Streets
302	Street Light for Local Streets
303	Street Light Concrete Footing Details
304	Traffic Signal Pull Box Installation
305	Street Lighting General Notes
310	Fire Hydrant Location
311	Utility Valve Cover Installation
320	Underground Utility Location
321	Street Marker
322	Street Name Sign & Post



APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Chishti DATE 4/21/24

APPROVED: TOWN ENGINEER
Noel Owsley R.C.E. 39827

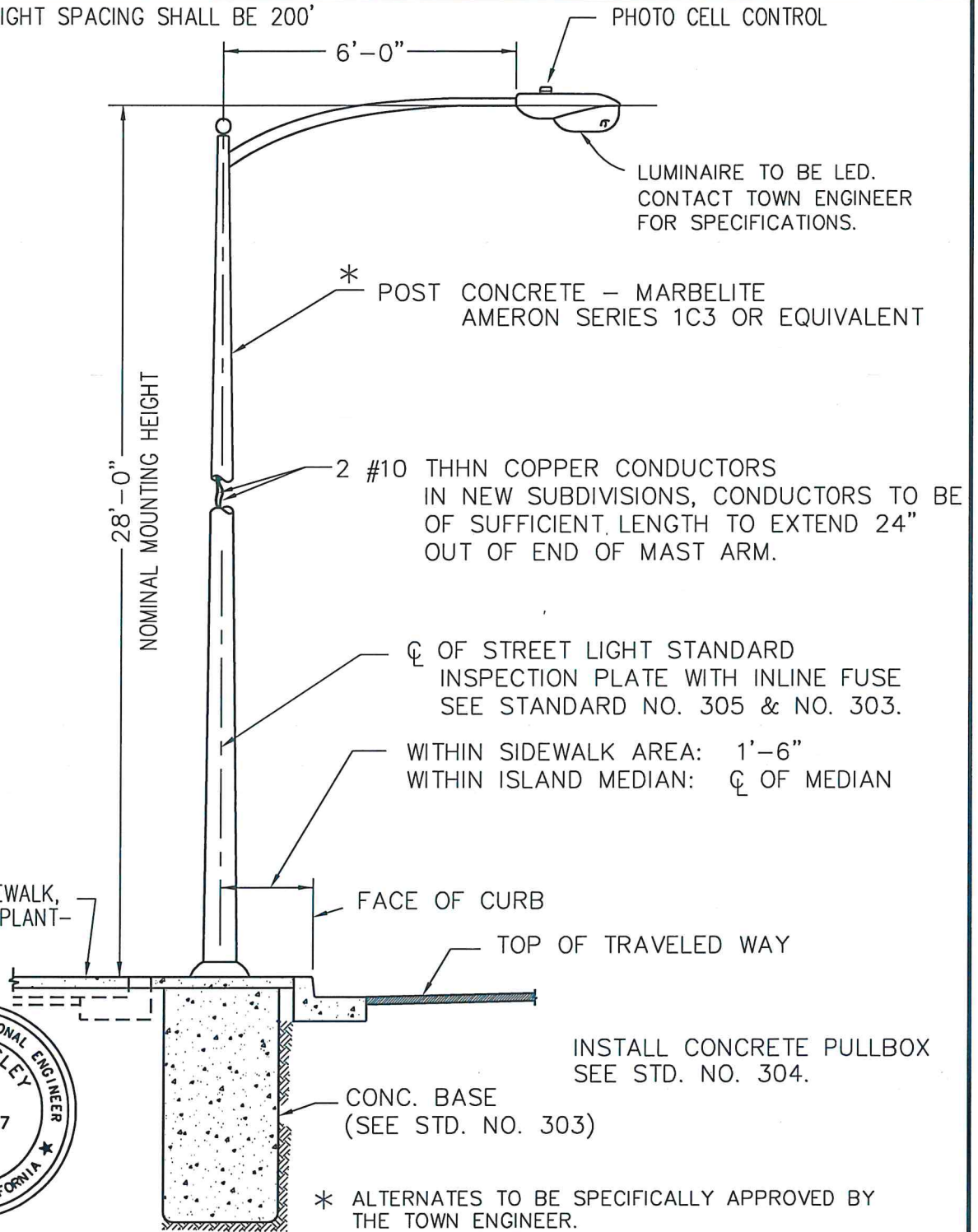
⚠ REVISED LUMINAIRE	-N-	8/30/24
REVISION	BY	DATE



Town of
Yucca Valley

STREET LIGHT
 FOR
 MAJOR AND ARTERIAL STREETS
 STANDARD DRAWING NO. 300

MAXIMUM LIGHT SPACING SHALL BE 200'



APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Gicht DATE *4/21/25*

APPROVED: TOWN ENGINEER
Noel Owsley R.C.E. 39827

▲ REVISED LUMINAIRE	-N-	8/30/24
REVISION	BY	DATE

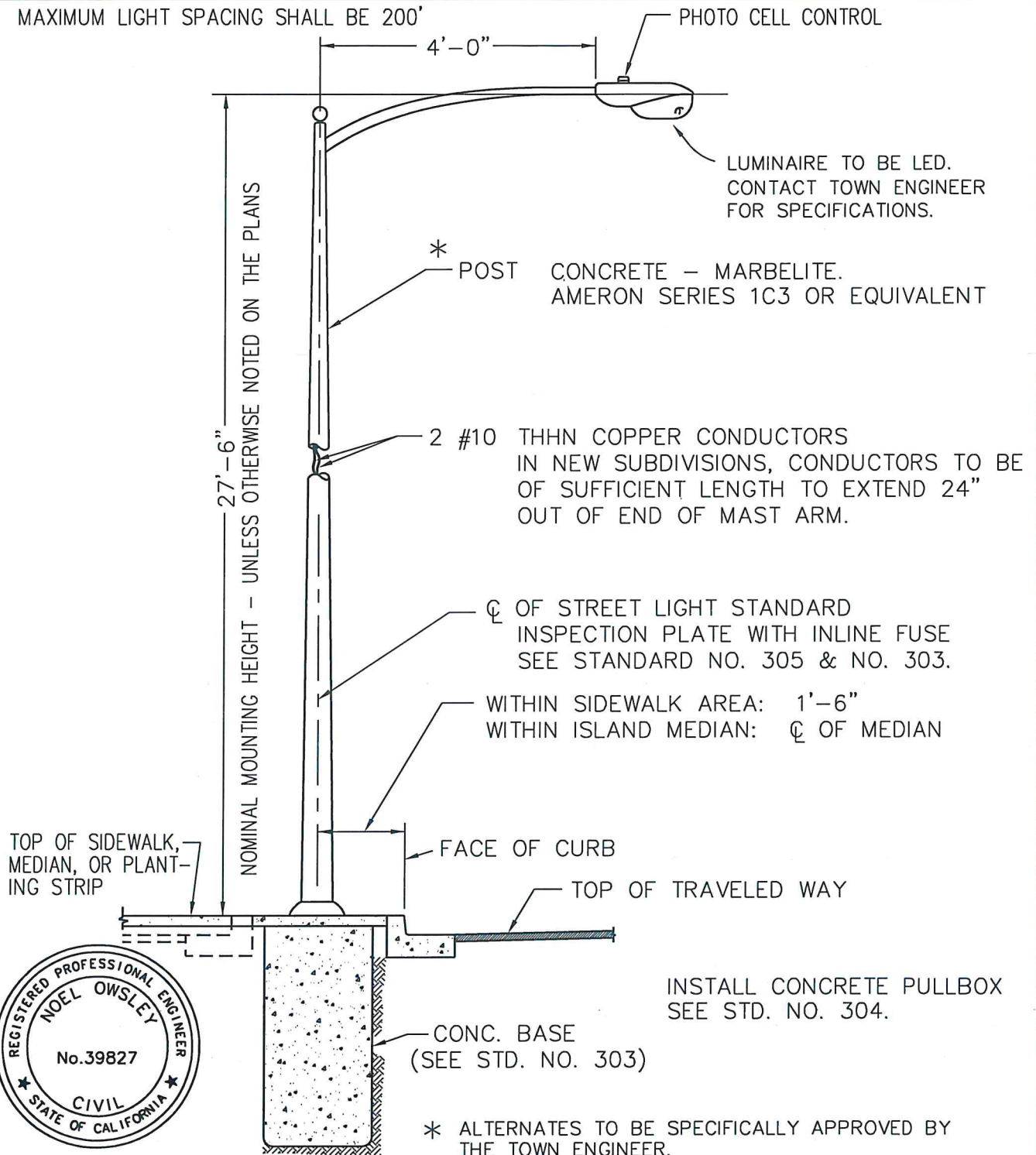


Town of
Yucca Valley

STREET LIGHT
 FOR
 COLLECTOR STREETS

STANDARD DRAWING NO. 301

MAXIMUM LIGHT SPACING SHALL BE 200'



TOP OF SIDEWALK,
MEDIAN, OR PLANT-
ING STRIP

NOMINAL MOUNTING HEIGHT - UNLESS OTHERWISE NOTED ON THE PLANS

* POST CONCRETE - MARBELITE.
AMERON SERIES 1C3 OR EQUIVALENT

2 #10 THHN COPPER CONDUCTORS
IN NEW SUBDIVISIONS, CONDUCTORS TO BE
OF SUFFICIENT LENGTH TO EXTEND 24"
OUT OF END OF MAST ARM.

Q OF STREET LIGHT STANDARD
INSPECTION PLATE WITH INLINE FUSE
SEE STANDARD NO. 305 & NO. 303.

WITHIN SIDEWALK AREA: 1'-6"
WITHIN ISLAND MEDIAN: Q OF MEDIAN

FACE OF CURB

TOP OF TRAVELED WAY

CONC. BASE
(SEE STD. NO. 303)

INSTALL CONCRETE PULLBOX
SEE STD. NO. 304.

* ALTERNATES TO BE SPECIFICALLY APPROVED BY
THE TOWN ENGINEER.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Christa

DATE 4/21/20

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827



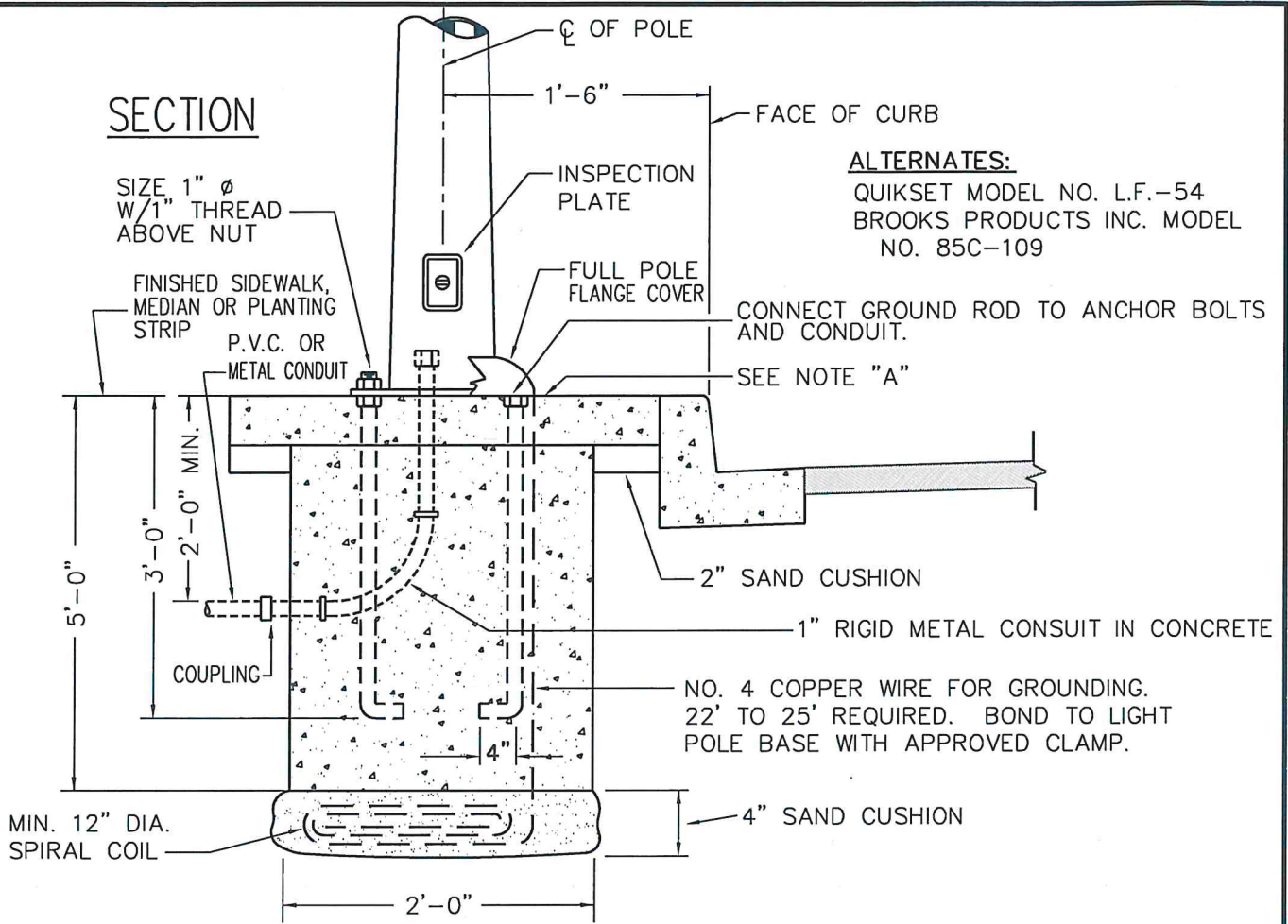
Town of
Yucca Valley

STREET LIGHT
FOR
LOCAL STREETS

STANDARD DRAWING NO. 302

1	REVISED LUMINAIRE	-N-	8/30/24
	REVISION	BY	DATE

SECTION

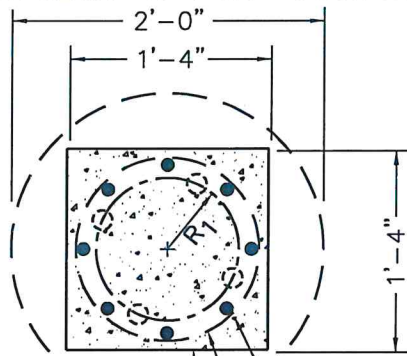


ALTERNATES:

QUIKSET MODEL NO. L.F.-54
 BROOKS PRODUCTS INC. MODEL
 NO. 85C-109

CONCRETE SHALL BE CLASS "A" P.C.C. POUR AGAINST UNDISTURBED SOIL.

PLAN



NOTES:

- A. IN UNDEVELOPED AREAS, CONSTRUCT A 2' x 2' CONC. PAD (4" THICK). IF ROUND FOOTING IS Poured, STOP AT THE ELEVATION OF BOTTOM OF THE SIDEWALK.
- R₁ = ANCHOR BOLT DIA. DIMENSION R AND BOLT PATTERN TO SUIT POLE BASE FURNISHED.

**FOOTING TO BE
 CONSTRUCTED
 BY SCE FORCES**



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Nista

DATE 4/21/22

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827

ADDED SCE CONSTR. NOTE

-N- 8/30/24

REVISION

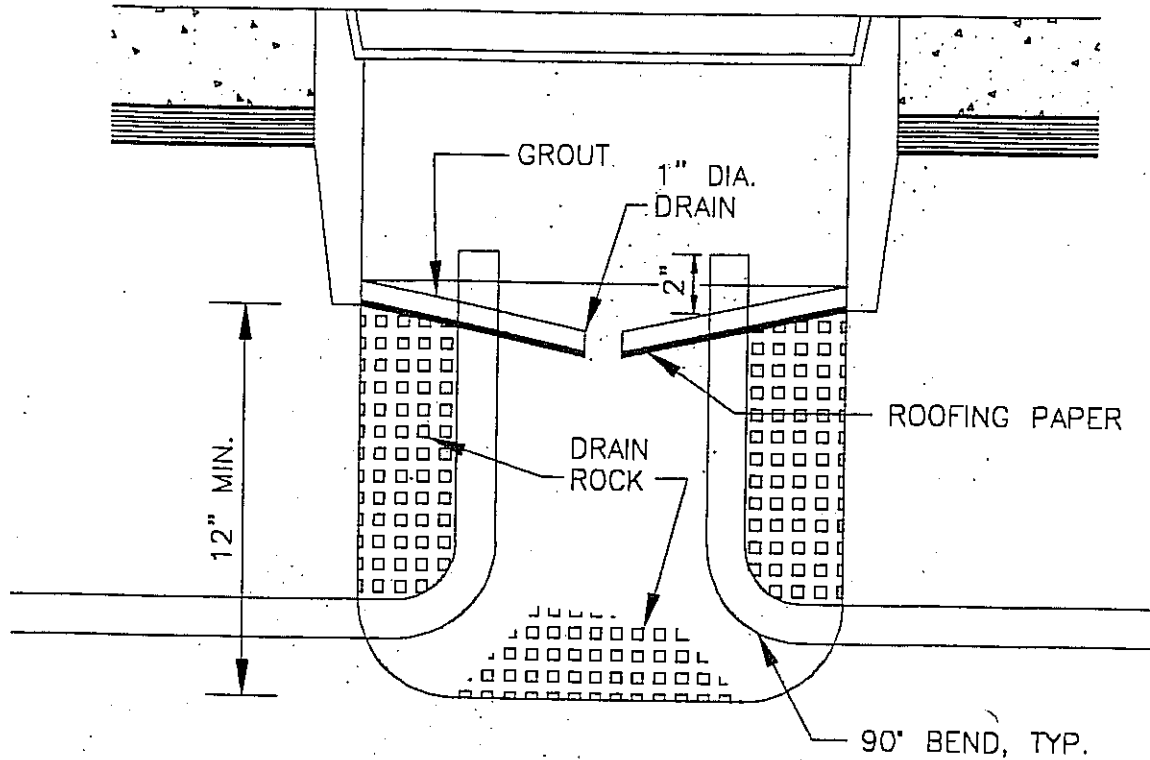
BY DATE



*Town of
 Yucca Valley*

STREET LIGHT
 CONCRETE FOOTING DETAILS

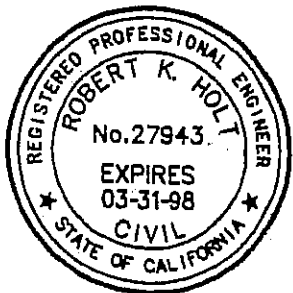
STANDARD DRAWING NO. 303



NO. 5 CONCRETE PULLBOX

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE TOWN ENGINEER.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

TRAFFIC SIGNAL
PULL BOX INSTALLATION

REVISION

BY DATE

STANDARD DRAWING NO.

304

GENERAL NOTES:

1. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE.
2. ALL CONDUIT TO BE USED SHALL BE A MINIMUM OF 2" DIAMETER, SCHEDULE 40 P.V.C., EXCEPT FROM EACH STREET LIGHT TO ADJACENT PULL BOX WHICH MAY BE 1" DIAMETER P.V.C. OR METAL, AND SHALL HAVE THE FOLLOWING COVER FROM TOP OF CONDUIT.
 - A. WITHIN SIDEWALK OF PARKWAY AREAS: 2'-0" MIN.
 - B. WITHIN ROADWAY AREAS: 4'-0" MIN.
3. ALL METAL CONDUIT AND OTHER METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.
4. ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY SECTIONS.
5. UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER, A NO. 5 PULL BOX (STATE STD. ES-8) SHALL BE USED AT ALL STREET LIGHT STANDARDS.
6. ALL PULL BOXES SHALL BE PER STD. 304.
7. JUNCTION BOXES TO BE NOT MORE THAN 250 FEET APART ON LONG RUNS.
8. WHEN PULL BOXES ARE SUBJECT TO VEHICULAR TRAFFIC, THEY SHALL BE SET ON ON CONCRETE FOOTINGS AND CAST IRON TRAFFIC COVERS SHALL BE INSTALLED.
9. ALL SPLICES TO BE APPROVED SOLDERLESS WATERPROOF CONNECTORS OF PROPER SIZE. (EXAMPLE: WIRENUT OR SPLIT BOLT PLUS TAPE PLUS COATING.)
10. ALL EMPTY CONDUITS SHALL HAVE A 1/4" NYLON PULL ROPE PROVIDED INSIDE.
11. ALL CONDUITS SHALL BE SEALED WITH AN APPROVED DUCT SEAL. CONDUITS STUBBED FOR FUTURE EXTENSION SHALL BE CAPPED.
12. ALL STREET LIGHTING PROJECTS ARE SUBJECT TO APPROVAL BY THE TOWN ENGINEER.
13. ALL PULLBOX COVERS SHALL BE SECURED WITH BRASS HOLD DOWN BOLTS AND INSCRIBED, "STREET LIGHTING".
14. ALL STREET LIGHTS EQUIPPED WITH A PHOTOCELL CONTROL SHALL HAVE THE PHOTOCELL ORIENTED TO THE NORTH.
15. ALL WIRE SHALL BE THHN A.W.G. WITH THE MINIMUM SIZE TO BE #8.
16. LIGHT POLES ON ALL STREETS OTHER THAN MINOR STREETS OR CUL-DE-SACS SHALL BE GALVANIZED STREET STANDARDS IN ACCORDANCE WITH TOWN STANDARD PLANS.
17. THE DEVELOPER/ENGINEER SHALL MAKE ARRANGEMENTS FOR SERVICE POINTS WITH S.C.E. THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED THEREWITH WHICH SHALL BE PAID DIRECTLY TO S.C.E. THE CONTRACTOR SHALL VERIFY THE STREET LIGHT SERVICE POINT LOCATION(S) WITH S.C.E. PRIOR TO INSTALLATION.
18. DEVELOPER SHALL INSTALL, IN ACCORDANCE WITH TOWN STANDARDS GALVANIZED STEEL POLES, APPROPRIATE MAST ARM LENGTHS, AND WIRING, LEAVING 2' OF WIRING EXTENDING FROM THE MAST ARM TO ALLOW CONNECTION TO THE LUMINAIRE BY S.C.E. FORCES AT A LATER DATE.
19. NEW DEVELOPMENTS LOCATED WITHIN AN EXISTING DEVELOPED AREA SHALL INSTALL THE ENTIRE LIGHTING SYSTEM, INCLUDING LUMINAIRES.
20. ALL STREET LIGHT SYSTEMS SHALL BE DESIGNED FOR 120 VOLT SERVICES UNLESS CONNECTING TO AN EXISTING SYSTEM. IN THE LATTER CASE, THE DESIGN SHALL CONFORM TO THE SYSTEM BEING CONNECTED TO AND MUST BE SPECIFICALLY APPROVED BY THE TOWN ENGINEER.
21. THE CURRENT TO BE USED TO DETERMINE CONDUCTOR SIZE SHALL BE DETERMINED AS FOLLOWS:

$$\frac{\text{TOTAL WATTAGE OF FIXTURES SERVED}}{\text{SERVICE VOLTAGE}} \times 3.5$$



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gisulte

DATE *4/21/22*

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827

1 REVISED NOTE 18

-N- 8/30/24

REVISION

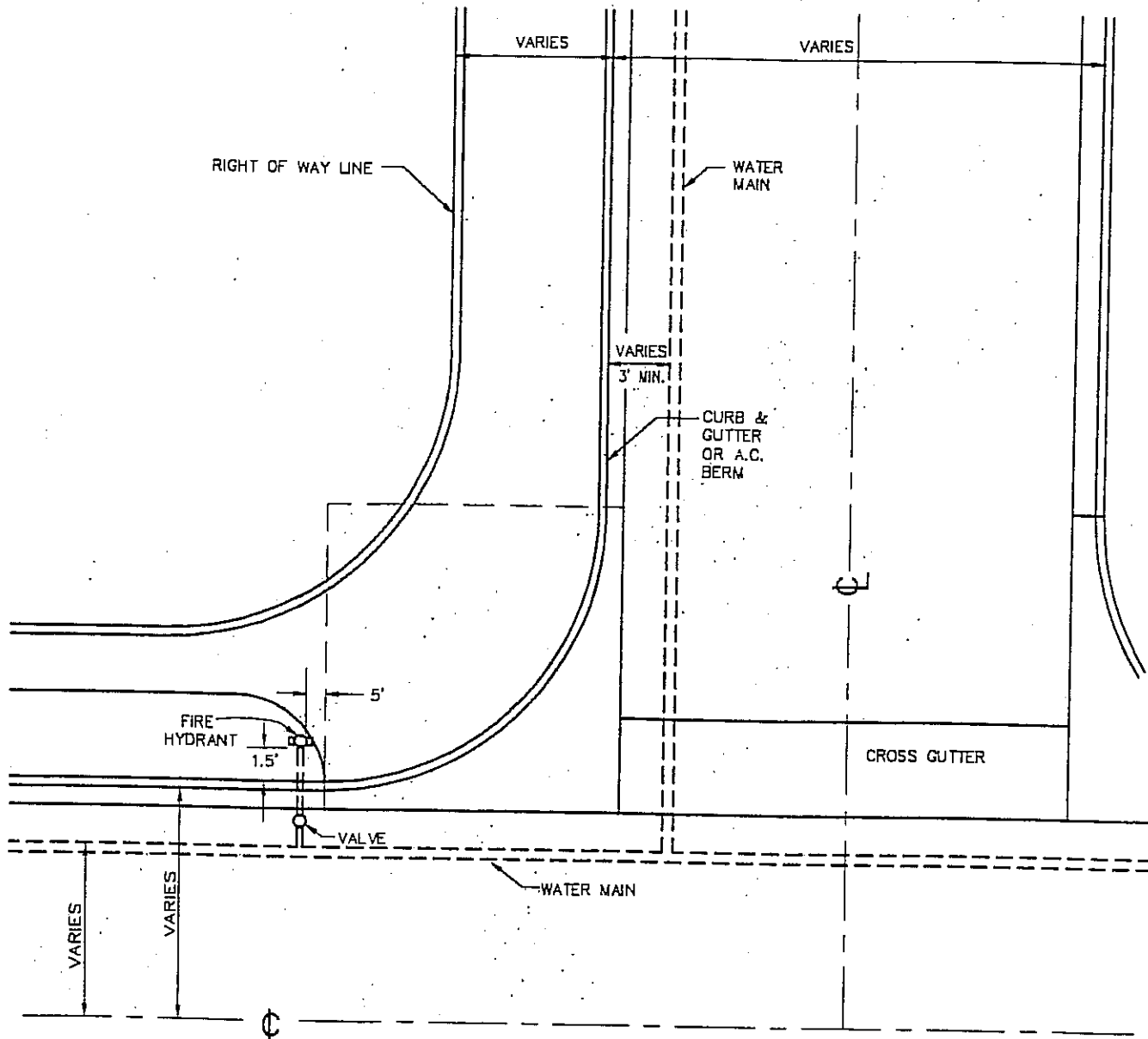
BY DATE



Town of
Yucca Valley

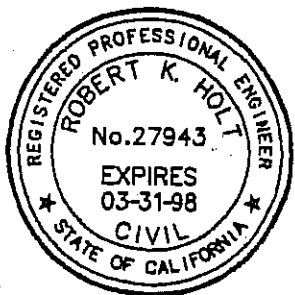
STREET LIGHTING
GENERAL NOTES

STANDARD DRAWING NO. 305



NOTES:

1. LOCATION OF WATER LINES AND VALVES SHALL BE SHOWN ON THE PLAN VIEW FOR SUBDIVISION IMPROVEMENT PLANS. SEE HEALTH DEPARTMENT STANDARDS, SECTION 7, DISTRIBUTION SYSTEMS, FOR MINIMUM DEPTH.
2. HYDRANT TO BE SET PLUMB WITH NOZZLE A MINIMUM OF EIGHTEEN (18") INCHES ABOVE GROUND LEVEL. WHEN HYDRANTS ARE PLACED BEFORE GRADING IS COMPLETED, THE FINAL GRADE LINE AND ACCESSIBILITY SHOULD BE CONSIDERED.
3. NO OBSTRUCTIONS SUCH AS POLES, GUY LINES, ETC. SHOULD BE PLACED CLOSER THAN FIVE (5') FEET TO HYDRANT.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



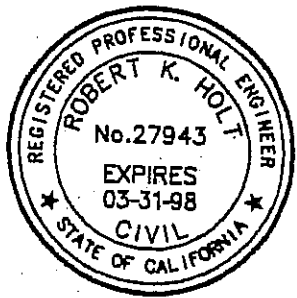
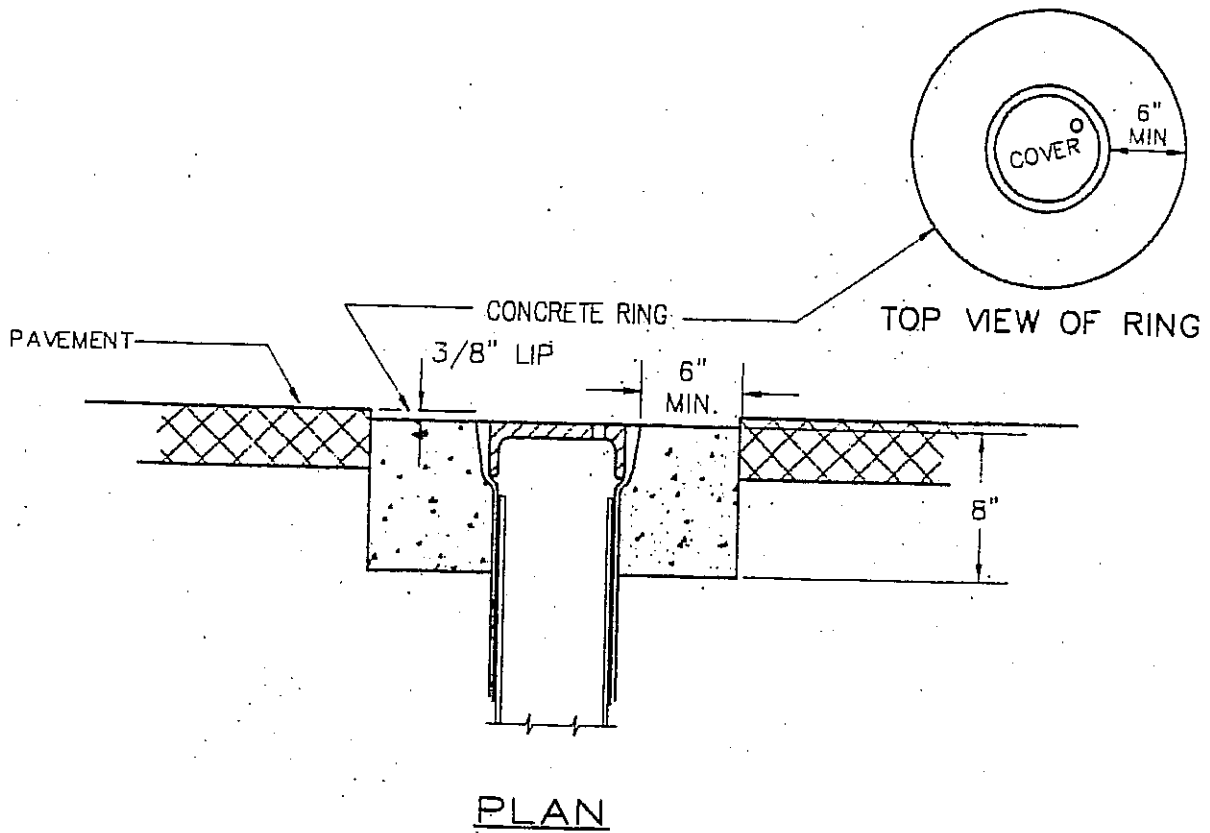
Town of
Yucca Valley

FIRE HYDRANT
LOCATION

REVISION

BY DATE

STANDARD DRAWING NO. 310



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE

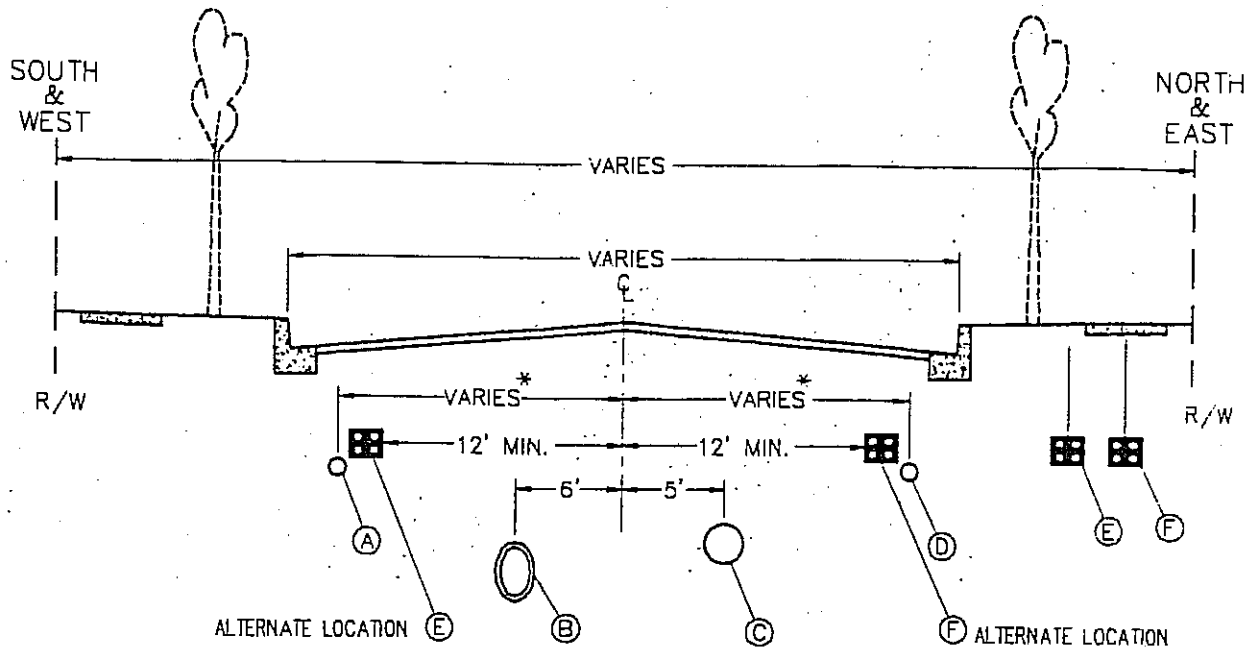


Town of
Yucca Valley

UTILITY
 VALVE COVER INSTALLATION

STANDARD DRAWING NO. 311

RECOMMENDED UTILITY LOCATION



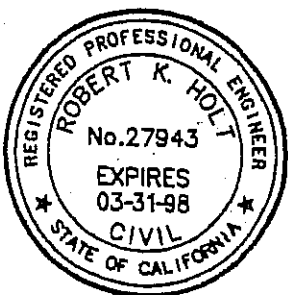
UTILITY	MIN. COVER
(A) WATER	30"
(B) STORM DRAIN	VARIES
(C) SEWER	VARIES
(D) GAS	30"
(E) POWER	36"
(F) TELEPHONE-CATV	30"

RECOMMENDED UTILITY INSTALLATION SCHEDULE

1. STORM DRAIN
2. SEWER
3. POWER & TELEPHONE
4. CURB & GUTTER
5. WATER
6. GAS
7. PAVING

NOTES:

1. WHERE ULTIMATE STREET IMPROVEMENTS ARE TO BE CONSTRUCTED, MINIMUM COVER OF UTILITY LINES MAY BE VARIED TO FACILITATE INSTALLATION.
2. THE UTILITY COMPANIES SHALL MAKE EVERY EFFORT TO LOCATE THEIR FACILITIES IN THE RECOMMENDED LOCATIONS, PARTICULARLY IN NEW SUBDIVISIONS.
3. EDISON AND TELEPHONE UTILITIES MAY USE A COMMON TRENCH. ALTERNATE LOCATION MAY BE EITHER THE EDISON POSITION OR THE TELEPHONE POSITION.
- * 4. VARIES 3' FROM THE CURB FACE TO 14' FROM C.
5. THE CENTER 24' OF STREET SHALL BE RESERVED FOR SEWER AND STORM DRAIN INSTALLATION.
6. SURFACE OF VAULT OR MANHOLE MUST MATCH PAVEMENT AND PARKWAY GRADES.
7. REPAIR OF TRENCHES AND REPLACEMENT OF PAVED SURFACING IN EXISTING ROADS SHALL BE IN ACCORDANCE WITH CURRENT "SPECIFICATIONS FOR TRENCH REPAIR."
8. WHENEVER POSSIBLE, MANHOLE COVERS SHALL NOT BE PLACED WITHIN THE SIDEWALKS.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



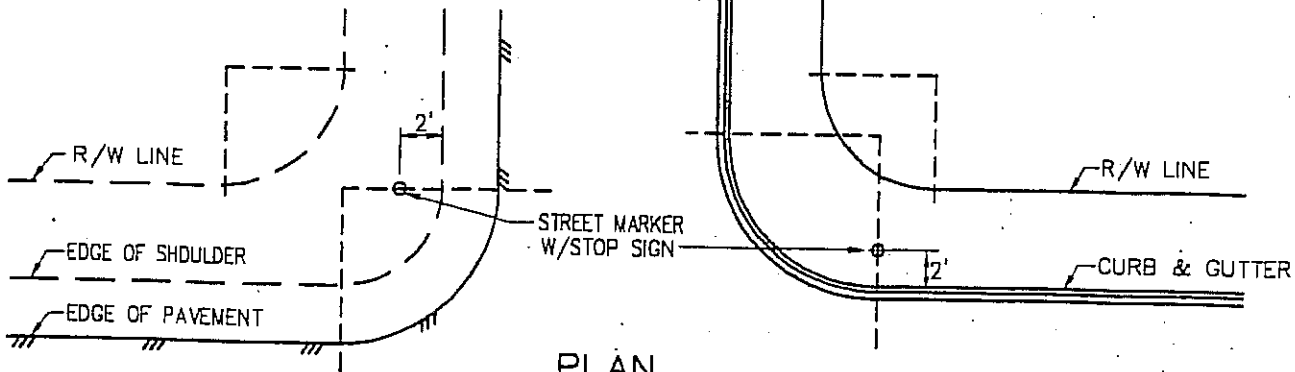
Town of
Yucca Valley

UNDERGROUND
UTILITY LOCATION

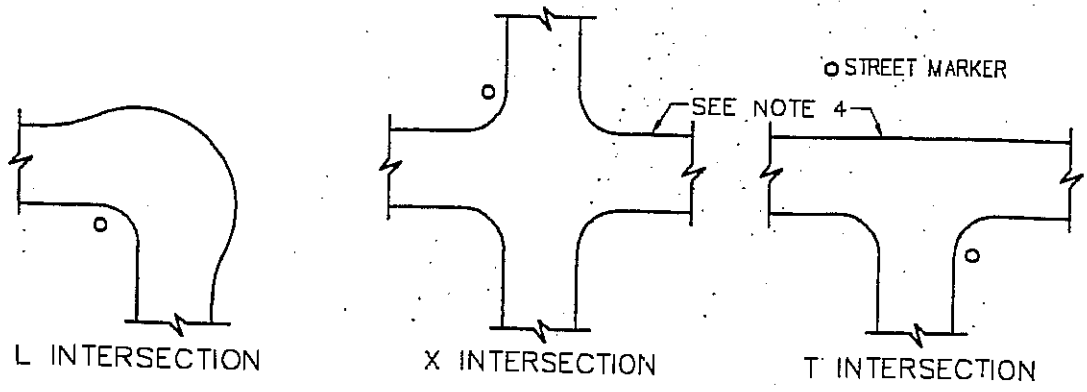
STANDARD DRAWING NO. 320

REVISION

BY DATE



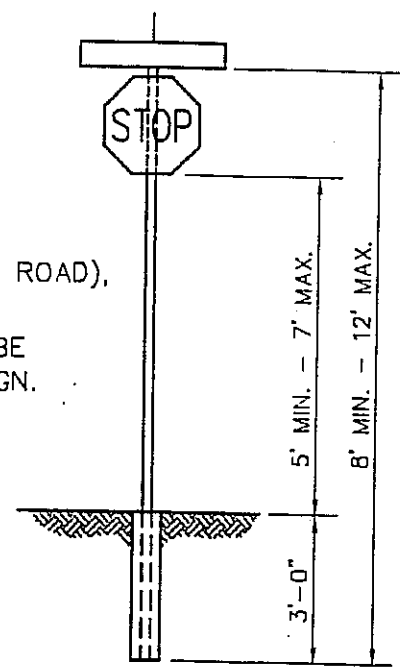
PLAN



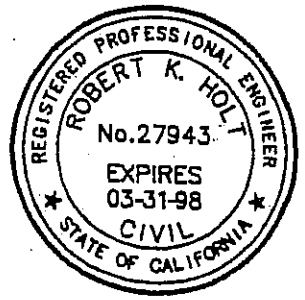
TYPICAL LOCATION

NOTES:

1. MARKER TO BE SET ON TOWN RIGHT OF WAY.
2. LOCATION OF MARKER SHOWN IS APPROXIMATE.
3. MARKERS TO BE VISIBLE FOR A DISTANCE OF 150 FEET.
4. IF EITHER ROAD IS DIVIDED INTO 4 LANES OR MORE (MAJOR ROAD), ADDITIONAL MARKERS WILL BE REQUIRED.
5. STREET MARKERS LOCATED AT MAJOR INTERSECTIONS WILL BE MOUNTED ON 12 FOOT POSTS TO ACCOMMODATE A STOP SIGN.



ELEVATION



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

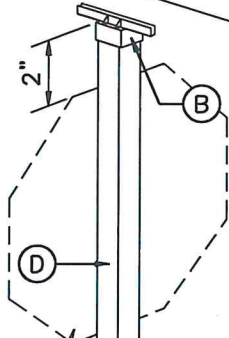
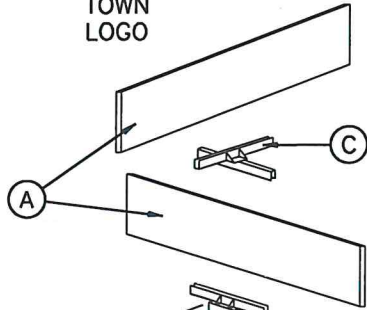
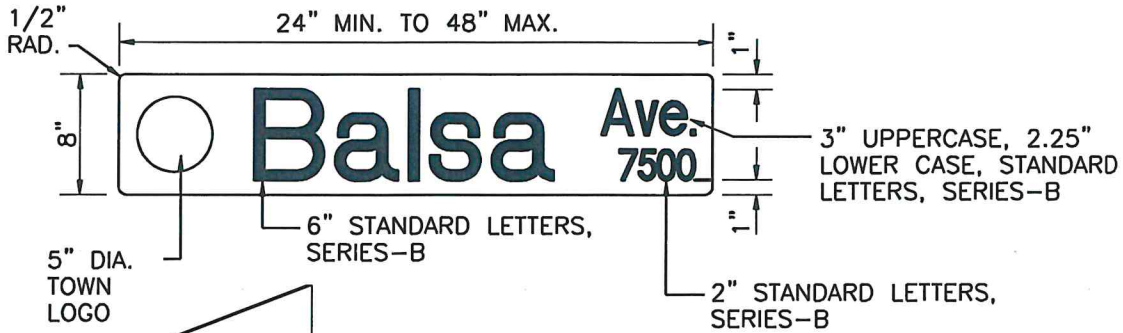


Town of
Yucca Valley

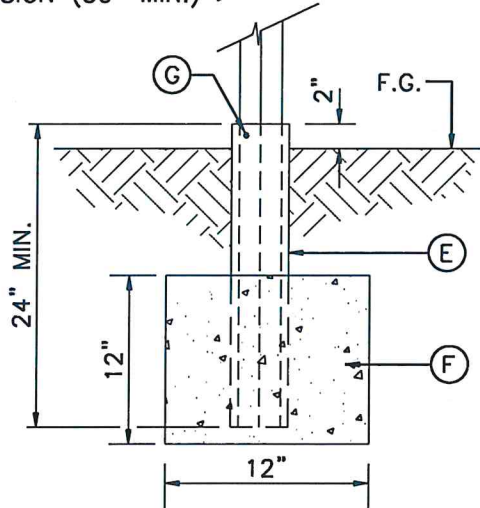
STREET MARKER

REVISION	BY	DATE

STANDARD DRAWING NO. 321



OPTIONAL STOP SIGN (30" MIN.)



- (A) 8" FLAT BLADE SIGN BLANK
- (B) ONE PIECE CAST ANODIZED ALUMINUM POST CAP WITH SIX 3/8" STAINLESS STEEL ALLEN HEAD SET SCREWS.
- (C) ONE PIECE ANODIZED ALUMINUM CENTER CROSS SADDLE WITH FOUR 3/8" STAINLESS STEEL ALLEN SET SCREWS
- (D) 2" SQUARE QUICK PUNCH POST (L=10')
- (E) 2-1/4" SQUARE SOLID GALVINIZED POST BASE
- (F) ONE CUBIC FOOT MIN. PCC (520-C-2500)
- (G) DRIVE RIVETS OR BOLT IN CENTER OF POST, APPROX. 1" FROM TOP OF POST BASE

NOTES

ALL LETTERS, NUMBERS AND LOGOS SHALL BE WHITE, ENGINEER GRADE, 3M SCOTCHLITE HEAT-ACTIVATED REFLECTIVE SHEETING (O.A.E.)

THE SIGN BACKING SHALL BE BLUE, ENGINEER GRADE, 3M SCOTCHLITE HEAT-ACTIVATED REFLECTIVE SHEETING (O.A.E.)

SIGN BLANKS SHALL BE FLAT BLADE CONSTRUCTED OF 1/8 INCH (0.125") THICK ANODIZED ALUMINUM

APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Christ DATE 4/21/25

APPROVED: TOWN ENGINEER

Noel Osley R.C.E. 39827

ADDED NEW STANDARD -N- 8/30/24

REVISION BY DATE



Town of
Yucca Valley

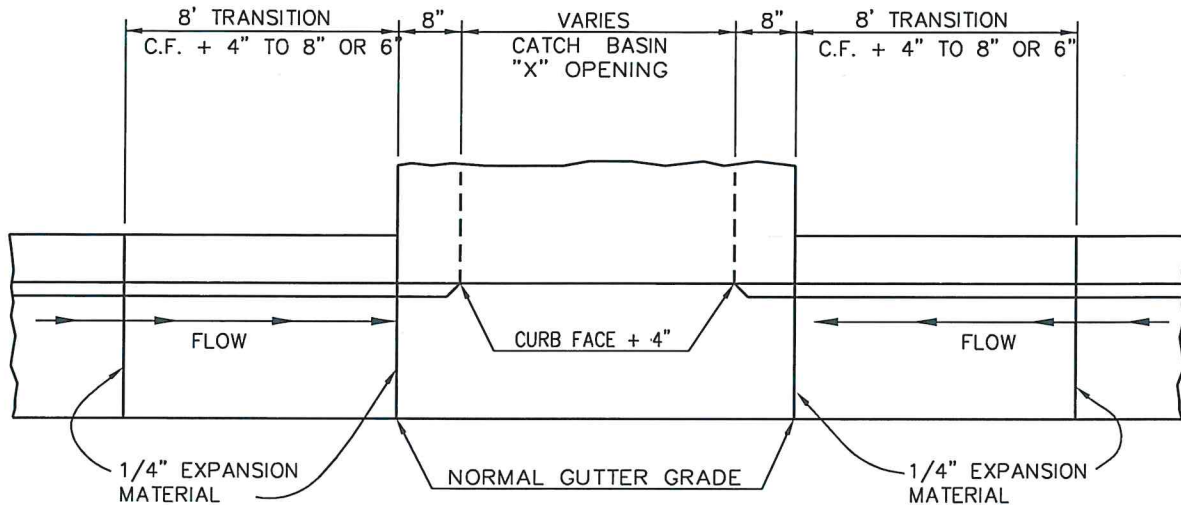
STREET NAME SIGN
AND POST

STANDARD DRAWING NO. 322

Section 4 – Storm Drain and Drainage Details

<u>Drawing No.</u>	<u>Description</u>
400	Local Depression
401	Local Depression
402	Local Depression No. 2
403	Local Depression No. 3
404	Curb Outlet Structure
405	Outlet Structure
406	Parkway Culvert with Steel Pate Cover
410	Junction Structure No. 1
411	Junction Structure No. 2
411A	Junction Structure No. 2
412	Junction Structure No. 3
413	Junction Structure No. 4
414	Junction Structure No. 5
415	Junction Structure No. 6
416	Junction Structure No. 7
420	Transition Structure No. 1
421	Transition Structure No. 2
422	Transition Structure No. 3
423	Transition Structure No. 4
430	Connector Pipe Collar
431	Concrete Collar for Pipe 12 Inches Through 66 Inches
440	Headwall Wing – Type
441	Headwall “U” – Type
450	Cutoff Wall for Drainage Channel
451	Channel Crossing
460	Inlet Type X (Grate Details)
461	Inlet Type IX (Checkered Plate
462	Storm Drain Cleanout
463	Standard Dry Well
464	Timber Bulkheads
465	Timber Bulkheads
466	Concrete Bulkheads
467	Pipe Supports Across Trenches
468	Bedding and Pay Lines
470	Catch Basin No. 1
471	Catch Basin No. 4 (Sht. 1 of 2)
471A	Catch Basin No. 4 (Sht. 2 of 2)

<u>Drawing No.</u>	<u>Description</u>
472	Catch Basin No. 6
473	Catch Basin Reinforcement
474	Special Connections to Catch Basin
475	Type "A" Catch Basin
476	Catch Basin Mountain Roads
476A	Catch Basin Mountain Roads
477	Catch Basin Grate
480	Catch Basin Opening
480A	Catch Basin Steel Plate Galvanized Steel Step
481	Removable Protection Bar for Catch Basins
481A	Detail of Catch Basin Opening & Installation Details
482	Standard Drop Step
483	Manhole Frame & Cover for Catch Basins
490	Storm Drain Manhole No. 1 (Sht. 1 of 2)
490A	Storm Drain Manhole No. 1 (Sht. 2 of 2)
491	Storm Drain Manhole No. 2
492	Storm Drain Manhole No. 3
493	Storm Drain Manhole No. 4
493A	Storm Drain Manhole No. 4
494	Manhole Shaft for Cast Pipe
495	Standard Pressure Manhole Shaft
496	Manhole Frame & Cover – Roadway
497	Manhole Frame & Cover – Parkway
498	Manhole Frame & Cover – Non-Rocking
499	Manhole Frame & Cover – Pressure Type



NOTES:

1. LOCAL DEPRESSION SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE 6" THICK
2. CURB AND GUTTER SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTING TOP OF CATCH BASIN AND CURB TRANSITIONS.



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Gishke DATE 4/21/25

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

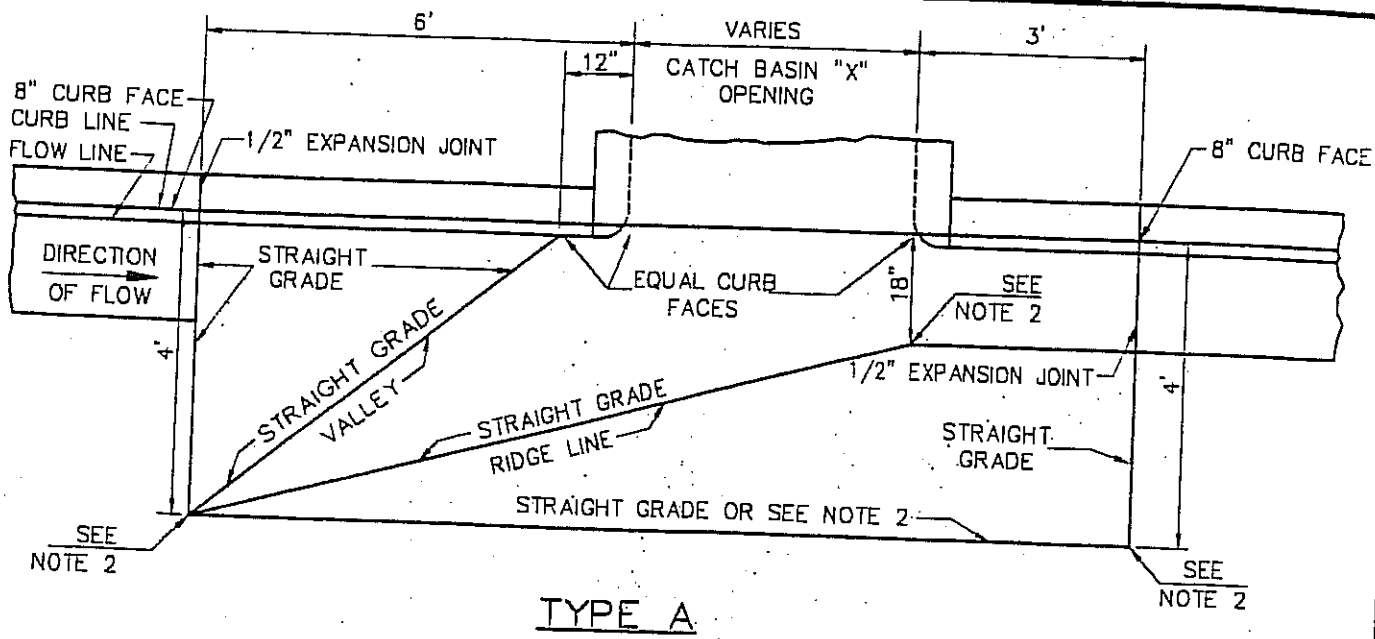


Town of
Yucca Valley

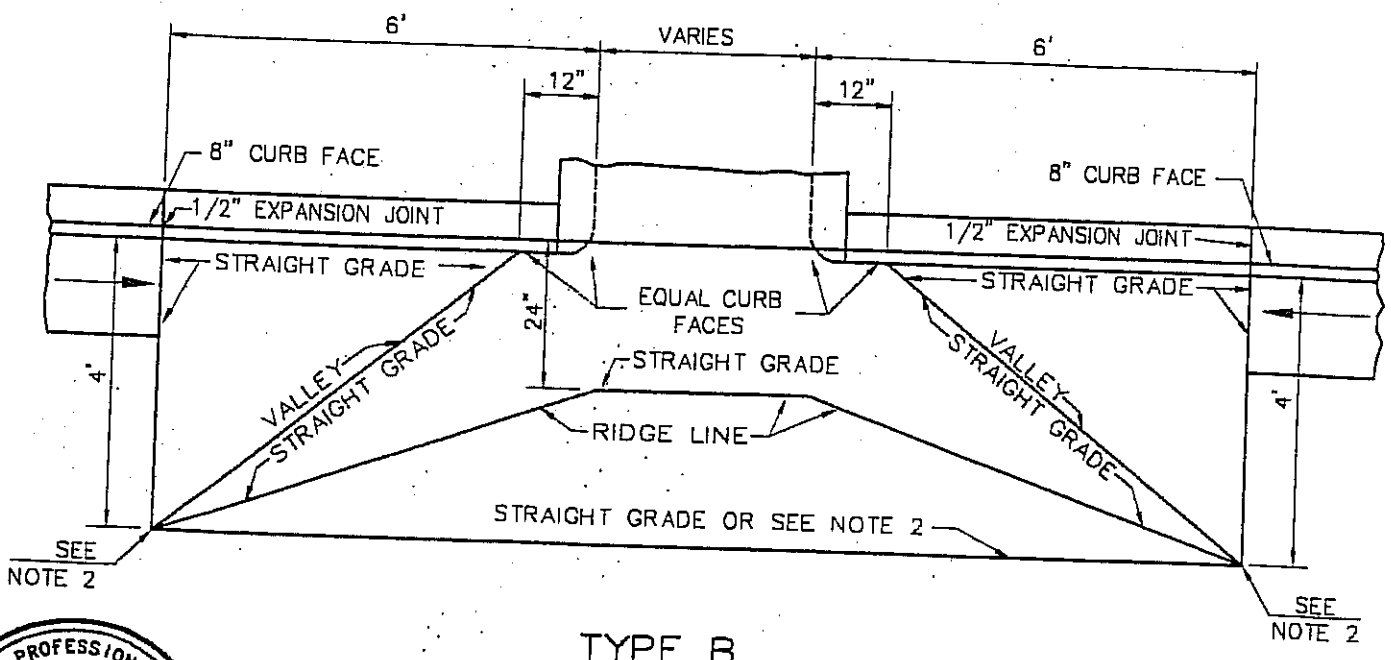
▲ REVISED CURB DEPRESSION NOTE	-N-	8/30/24
REVISION	BY	DATE

LOCAL DEPRESSION

STANDARD DRAWING NO. 400



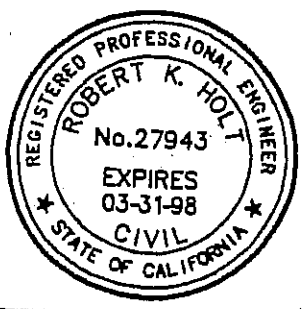
TYPE A



TYPE B

NOTES:

1. LOCAL DEPRESSION SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE 8" THICK.
2. ELEVATIONS SHALL BE SHOWN ON CONSTRUCTION PLANS. THE OUTER EDGE OF THE LOCAL DEPRESSION SHALL CONFORM TO FINISHED STREET GRADE.
3. SPECIAL DETAILS GOVERNING THE CONSTRUCTION ON A VERTICAL CURVE SHALL BE SHOWN ON CONSTRUCTION PLANS.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

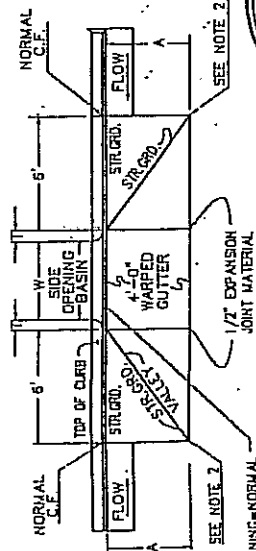
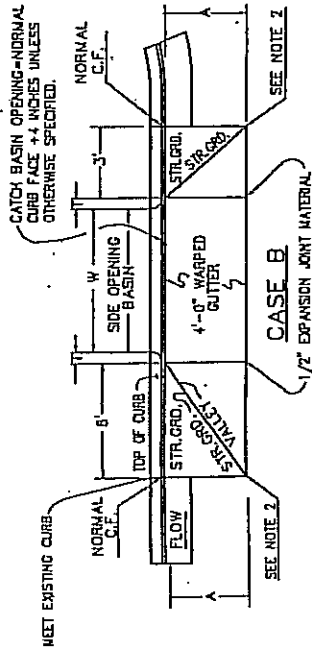
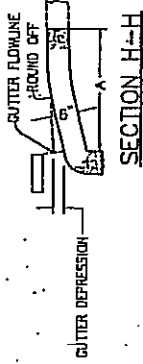
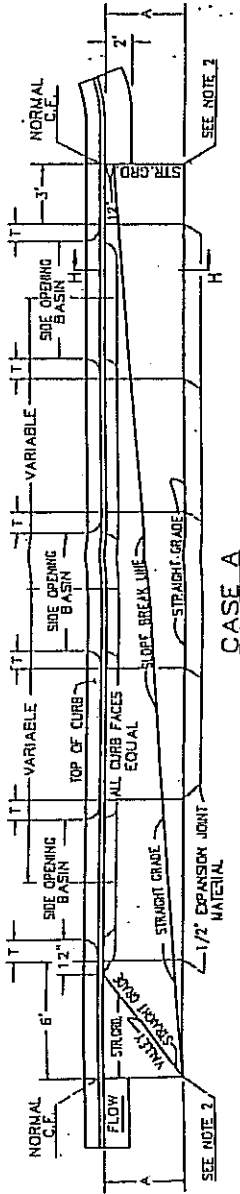


Town of
Yucca Valley

LOCAL DEPRESSION

STANDARD DRAWING NO. 401

REVISION	BY	DATE



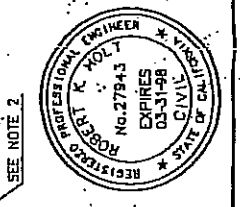
NOTES:

1. LOCAL DEPRESSION SHALL BE CASE B UNLESS OTHERWISE SPECIFIED ON GENERAL PLAN.
2. ELEVATIONS AT OUTER CORNERS SHOWN ON GENERAL PLAN IF NO ELEVATIONS ARE SPECIFIED, THE OUTER EDGE OF THE LOCAL DEPRESSION SHALL CONFORM TO FINISHED STREET SURFACE.
3. A=4 FEET UNLESS OTHERWISE SPECIFIED.
T=SEE STANDARD DRAWING 471 OR 472.
W=SEE STANDARD DRAWING 471 OR 472.
4. WHERE NO CURB EXISTS, CURB SHALL BE CONSTRUCTED BETWEEN ENDS OF LOCAL DEPRESSION. CURB SECTION SHALL CONFORM TO TOWN OF YUCCA VALLEY STANDARD DWGS.
5. DEPRESSION SHALL BE CLASS "B" CONCRETE.

APPROVED: _____ DATE _____

APPROVED: *Robert K. Holt* TOWN ENGINEER R.C.E. 27943

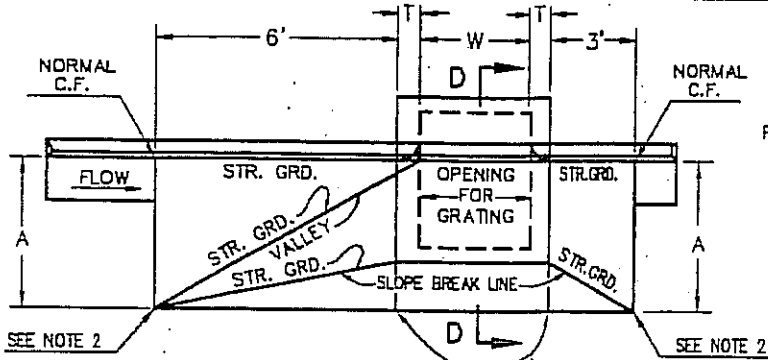
REVISION _____ BY _____ DATE _____



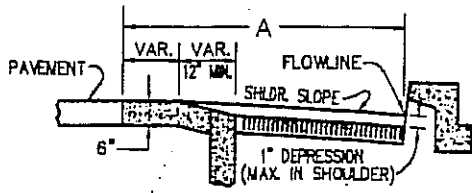
Town of
Yucca Valley

LOCAL DEPRESSION
NO. 2

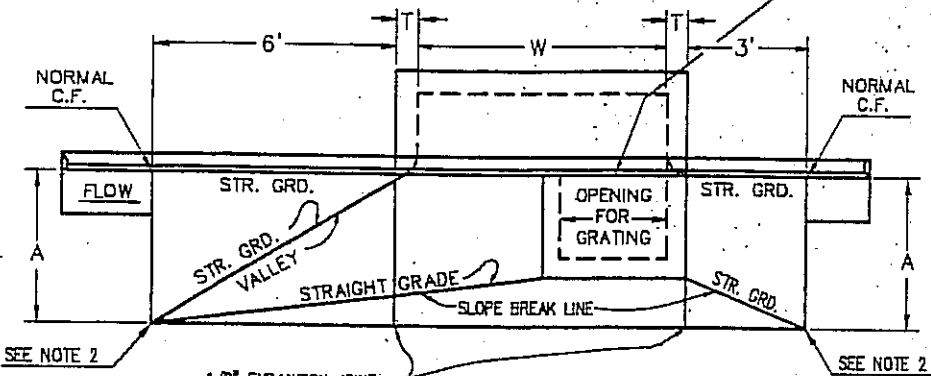
STANDARD DRAWING NO. 402



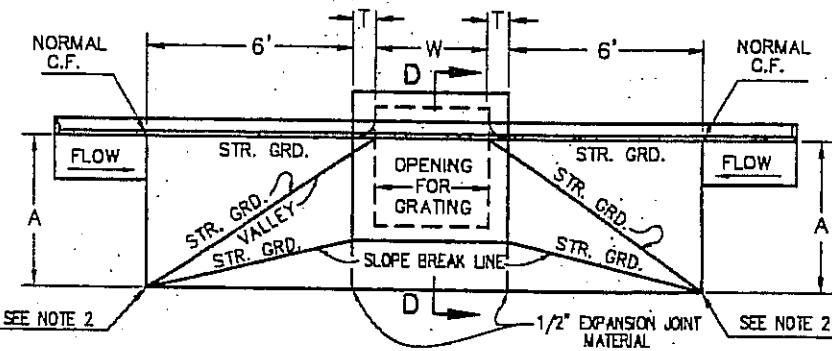
CASE A



SECTION D-D



CASE B

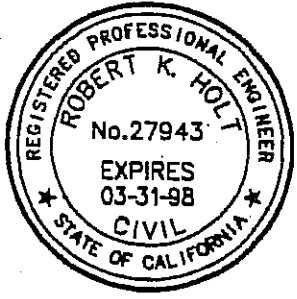


CASE C

CATCH BASIN OPENING =
NORMAL CURB FACE + 4 INCHES
UNLESS OTHERWISE SPECIFIED.

NOTES:

1. LOCAL DEPRESSION SHALL BE:
 - (a) CASE "A" FOR CATCH BASIN NO. 4 (SEE STD. DWG. 471) UNLESS OTHERWISE SPECIFIED.
 - (b) CASE "B" FOR CATCH BASIN NO. 6 (SEE STD. DWG. 472) UNLESS OTHERWISE SPECIFIED.
2. ELEVATIONS AT OUTER CORNERS SHOWN ON PROJECT DRAWINGS. IF NO ELEVATIONS ARE SPECIFIED THE OUTER EDGE OF THE LOCAL DEPRESSION SHALL CONFORM TO THE FINISHED STREET SURFACE.
3. A=4 FEET UNLESS OTHERWISE SPECIFIED.
T=SEE STANDARD DRAWING 471 OR 472.
W=SEE STANDARD DRAWING 471 OR 472.
4. WHERE NO CURB EXISTS, CURB SHALL BE CONSTRUCTED BETWEEN ENDS OF LOCAL DEPRESSION. CURB SECTION SHALL CONFORM TO TOWN OF YUCCA VALLEY STANDARD DWGS.
5. DEPRESSION SHALL BE CLASS "B" CONCRETE.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

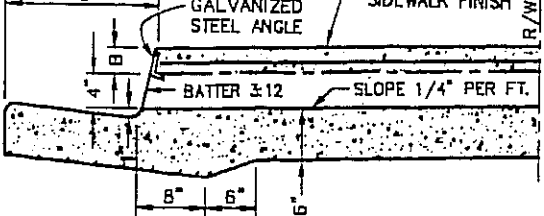


Town of
Yucca Valley

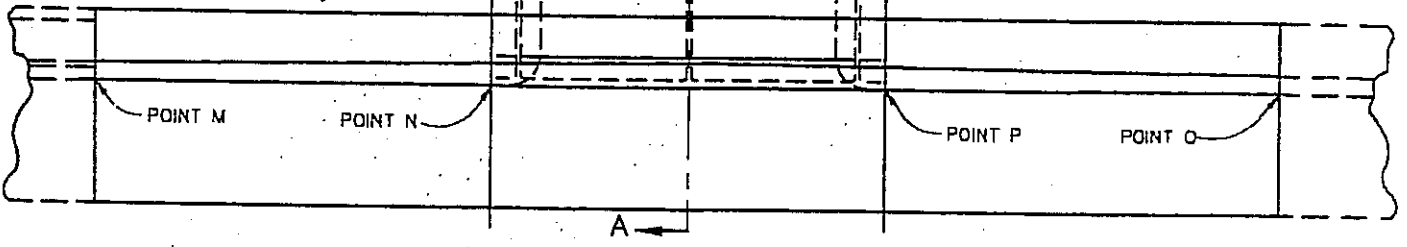
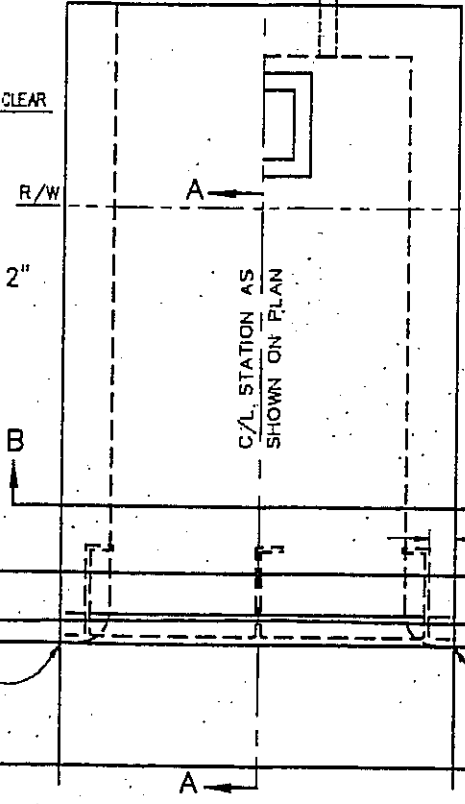
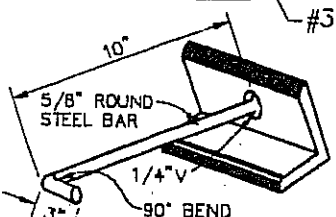
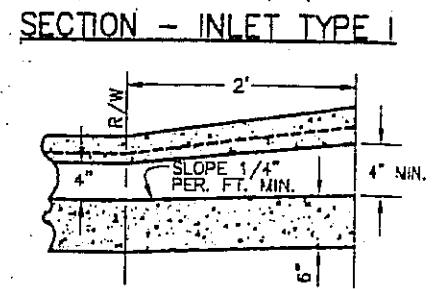
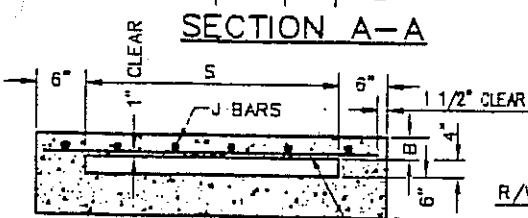
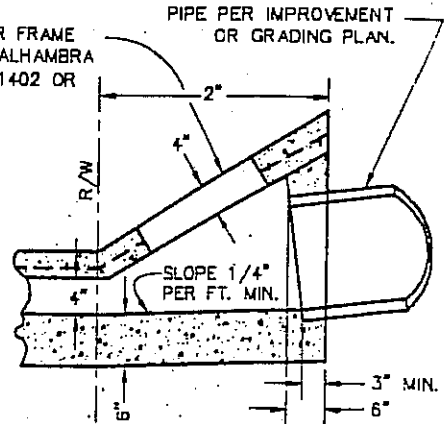
LOCAL DEPRESSION
NO. 3

STANDARD DRAWING NO. 403

REVISION _____ BY _____ DATE _____



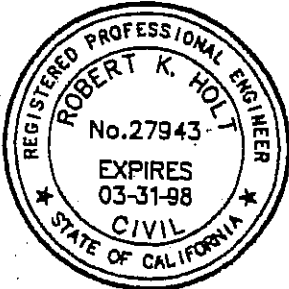
RECTANGULAR FRAME & COVER - ALHAMBRA FOUNDRY A-1402 OR EQUAL.



NOTES:

1. FLOOR OF BOX TO BE TROWELED SMOOTH.
2. WHEN TOE OF SLOPE IS WITHIN THE R/W, INLET TYPE I BEGINS AT THE TOE, RATHER THAN AT THE R/W LINE.
3. FOR OPEN DITCH APPROACH (TYPE II) THE 2' OR MORE IS FROM THE R/W LINE.
4. TOP OF INLET STRUCTURE (TYPE I OR II) TO BE FLUSH WITH ADJACENT SIDEWALK WHERE PRACTICAL.
5. A HEADED STEEL STUD 5/8" X 6 3/8" WITH HEAD 0.1" ATTACHED BY A FULL PENETRATION BUTT WELD MAY BE USED AS AN ALTERNATE ANCHOR.
6. NORMAL CURB AT POINTS M AND O. B + 5" AT POINTS N AND P.
7. THE 3" LEG OF THE INTERIOR ANCHORS SHALL BE PARALLEL TO THE TOP OF SIDEWALK.

S	B	GALVANIZED STEEL ANGLE	ANCHOR SIZE	J BARS		
				SIZE	SPACING	LENGTH
1'-0"	3"	2 1/2" X 2" X 3/8"	2	#3	7"	1'-9"
1'-6"	"	"	"	"	"	2'-3"
2'-0"	"	"	"	"	"	2'-6"
2'-6"	"	"	"	"	"	3'-3"
3'-0"	"	"	3	"	"	3'-9"
3'-6"	"	"	"	"	8"	4'-3"
4'-0"	"	"	"	"	5"	4'-9"
4'-6"	4"	3 1/2" X 3" X 1/2"	"	"	6 1/2"	5'-3"
5'-0"	"	"	"	"	5"	5'-9"
5'-6"	"	"	"	"	4"	6'-3"
6'-0"	"	"	"	"	3 1/2"	8'-9"



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt

R.C.E. 27943

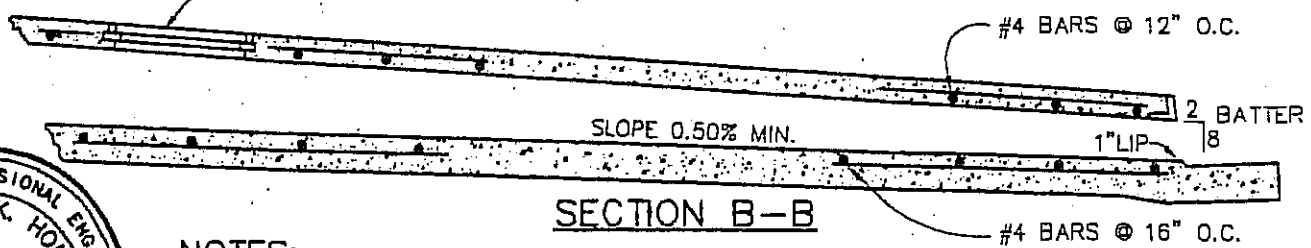
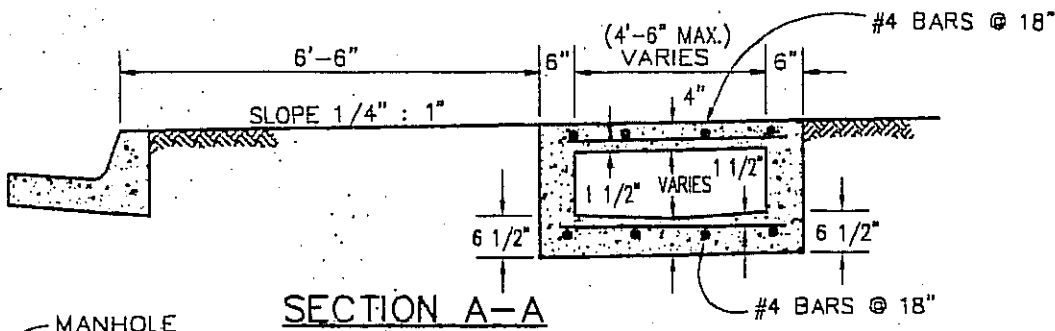
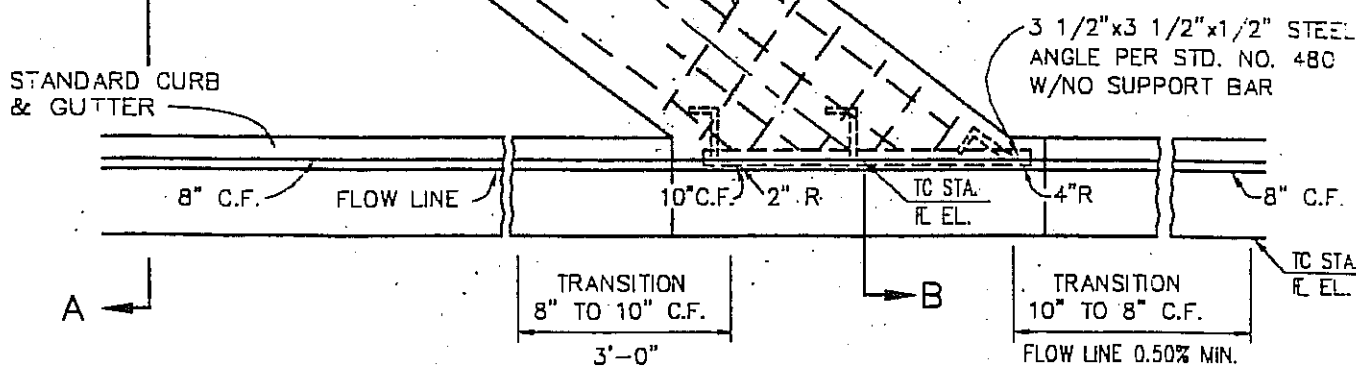
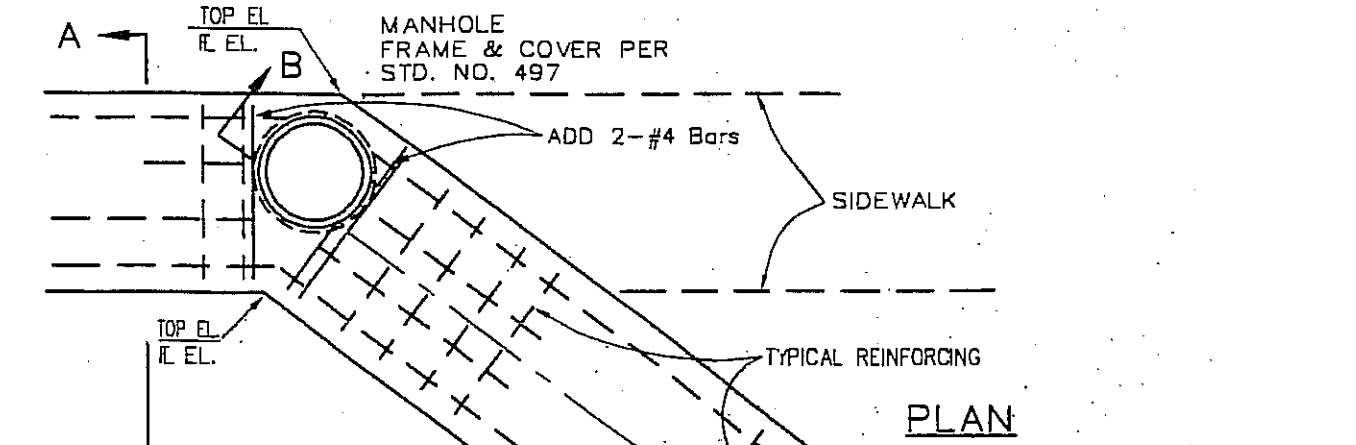
REVISION	BY	DATE



Town of
Yucca Valley

CURB OUTLET STRUCTURE

STANDARD DRAWING NO. 404



- NOTES:**
1. CONCRETE SHALL BE CLASS "A"
 2. FLOOR OF STRUCTURE SHALL BE GIVEN A STEEL TROWEL FINISH.
 3. TOP OF BOX TO HAVE SIDEWALK FINISH.
 4. ANCHORS SHALL BE SYMMETRICALLY SPACED AND NOT TO EXCEED 4' BETWEEN CENTERS, AND BE PLACED 4 1/2" FROM EACH END OF THE STEEL ANGLE, A MINIMUM OF 3 ANCHORS IS REQUIRED.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

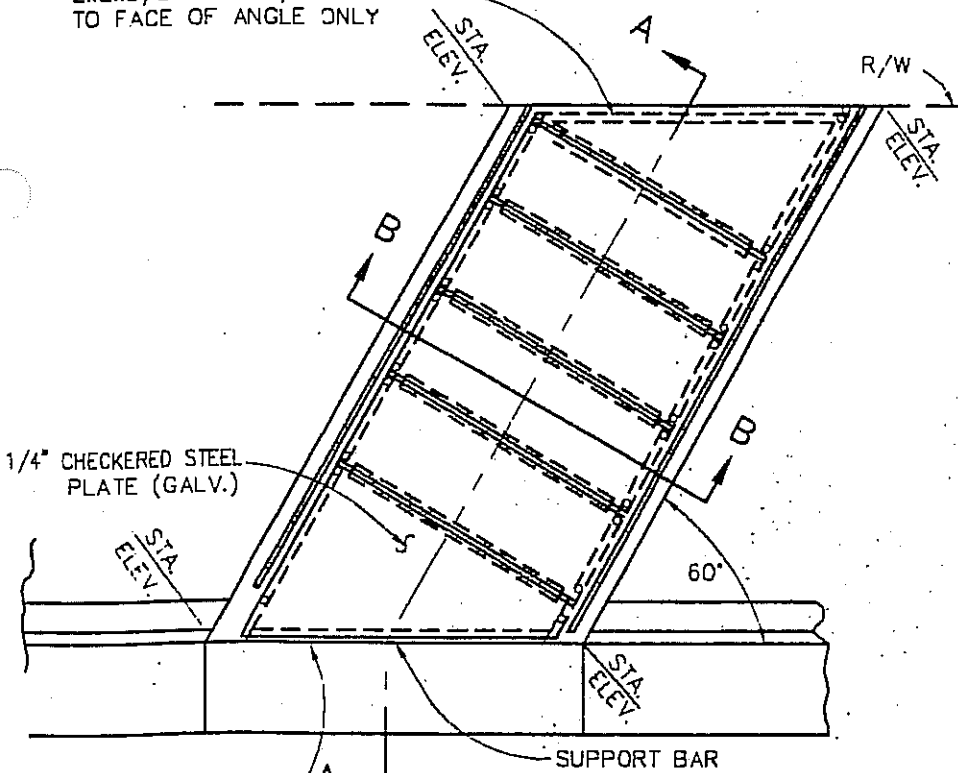


OUTLET STRUCTURE

STANDARD DRAWING NO. 405

REVISION	BY	DATE

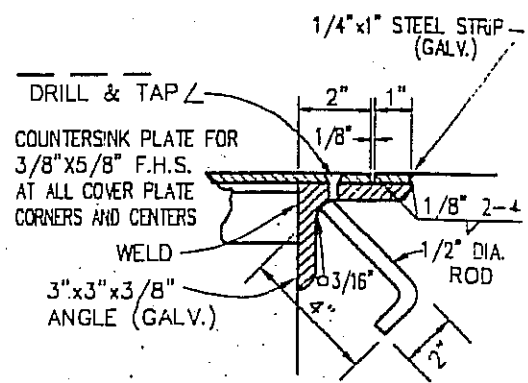
2x2x3/8" WITH 3/16" WELD TO FACE OF ANGLE ONLY



1/4" CHECKERED STEEL PLATE (GALV.)

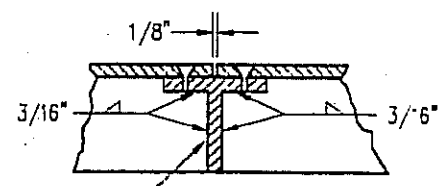
2x2x3/8" WITH 3/16" WELD TO FACE OF ANGLE ONLY

PLAN



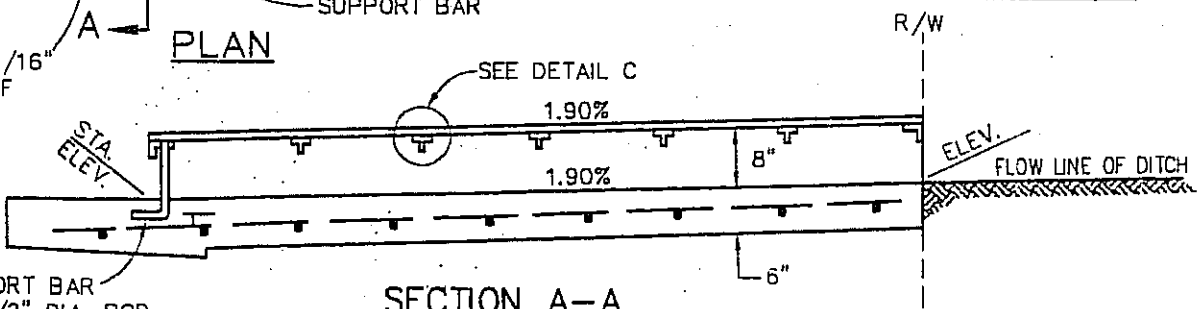
DRILL & TAP
COUNTERSINK PLATE FOR 3/8" X 5/8" F.H.S. AT ALL COVER PLATE CORNERS AND CENTERS
WELD
3" X 3" X 3/8" ANGLE (GALV.)

DETAIL B



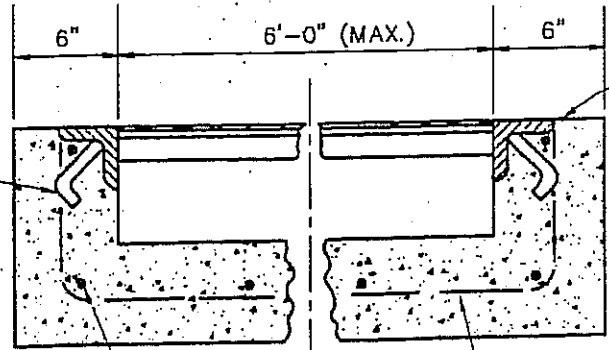
2x2x5/16" T SUPPORT

DETAIL C



SECTION A-A

SUPPORT BAR 12" x 1/2" DIA. ROD WELD TO ANGLE



SECTION B-B

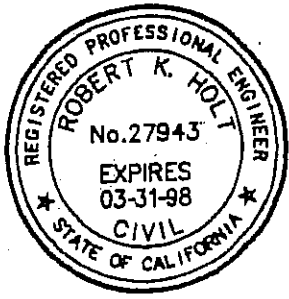
1/2" x 6" ANCHOR BAR 12" O.C.

#4 BARS 18" O.C.

#4 BARS 12" O.C.

NOTES:

1. ALL CONCRETE TO BE CLASS "A"
2. ALL STEEL EXCEPT REINFORCING BARS SHALL BE GALVANIZED AFTER FABRICATION.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

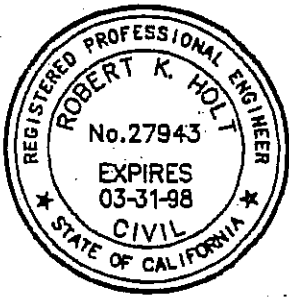


Town of
Yucca Valley

PARKWAY CULVERT
W/STEEL PLATE COVER

STANDARD DRAWING NO. 406


REVISION	BY	DATE



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE



Town of
Yucca Valley

JUNCTION STRUCTURE
 NO. 1

STANDARD DRAWING NO. 410

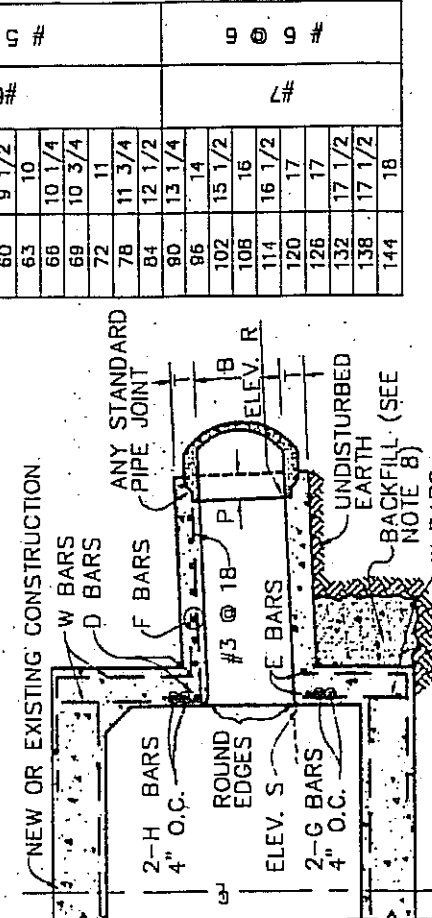
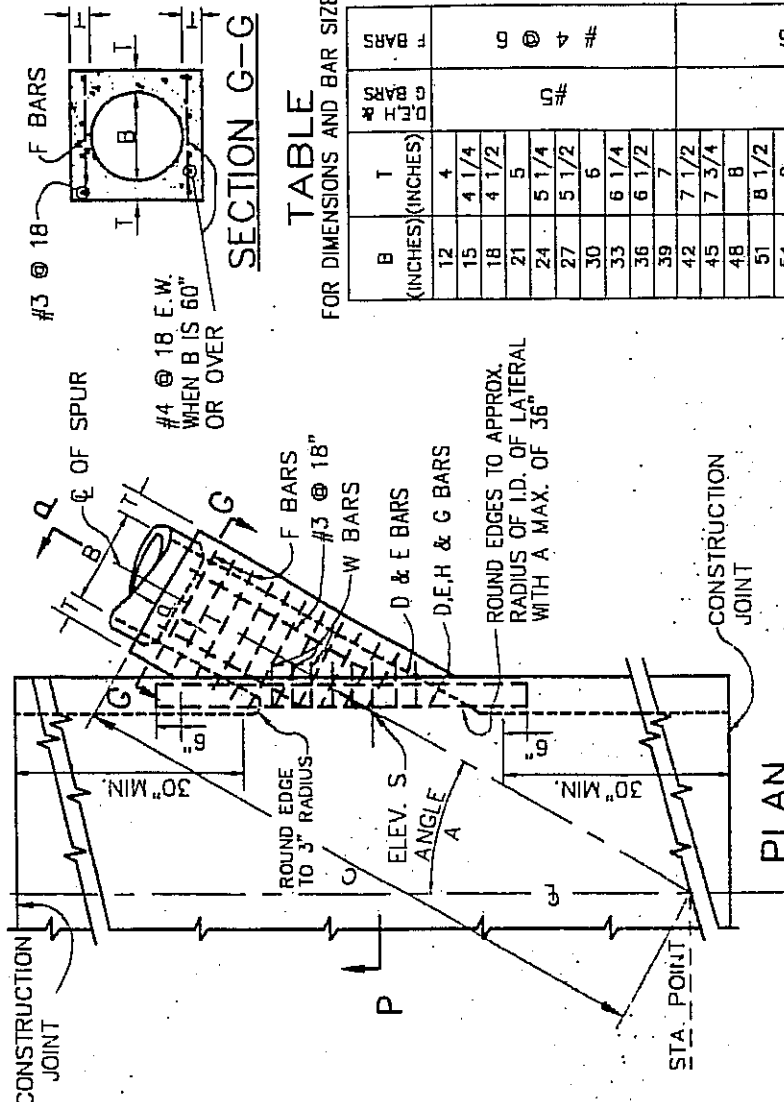
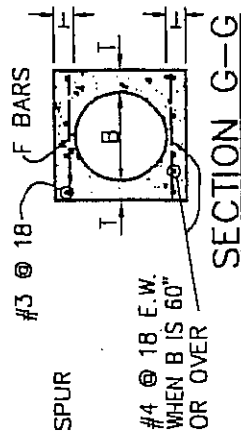


TABLE FOR DIMENSIONS AND BAR SIZE

B (INCHES)	T (INCHES)	#	#	#
12	4	#4	#4	#4
15	4 1/4	#4	#4	#4
18	4 1/2	#4	#4	#4
21	5	#4	#4	#4
24	5 1/4	#4	#4	#4
27	5 1/2	#4	#4	#4
30	6	#4	#4	#4
33	6 1/4	#4	#4	#4
36	6 1/2	#4	#4	#4
39	7	#4	#4	#4
42	7 1/2	#4	#4	#4
45	7 3/4	#4	#4	#4
48	8	#4	#4	#4
51	8 1/2	#4	#4	#4
54	9	#4	#4	#4
57	9 1/4	#4	#4	#4
60	9 1/2	#4	#4	#4
63	10	#4	#4	#4
66	10 1/4	#4	#4	#4
69	10 3/4	#4	#4	#4
72	11	#4	#4	#4
78	11 3/4	#4	#4	#4
84	12 1/2	#4	#4	#4
80	13 1/4	#4	#4	#4
96	14	#4	#4	#4
102	15 1/2	#4	#4	#4
108	16	#4	#4	#4
114	16 1/2	#4	#4	#4
120	17	#4	#4	#4
126	17	#4	#4	#4
132	17 1/2	#4	#4	#4
138	17 1/2	#4	#4	#4
144	18	#4	#4	#4

- NOTES:**
- VALUES FOR A, B, C, ELEV. R AND ELEV. S ARE SHOWN ON PROJECT DRAWINGS. TABLE OF VALUES FOR T SHOWN ON THIS PLAN.
 - STATIONS SPECIFIED ON DRAWINGS APPLY AT THE INTERSECTION OF CENTERLINES AT MAIN LINE AND LATERALS, EXCEPT THAT STATIONS FOR CATCH BASIN CONNECTOR PIPE APPLY AT INSIDE WALL OF STRUCTURE.
 - REINFORCING STEEL SHALL BE STRAIGHT BARS 1 1/2" CLEAR FROM INSIDE FACE OF CONCRETE UNLESS OTHERWISE SHOWN. W BARS ARE OF SIZE AND SPACING SPECIFIED FOR WALL. STEEL ON PLAN AND SHALL BE CUT IN CENTER OF OPENING AND BENT INTO TOP AND BOTTOM OF JUNCTION STRUCTURE. OMIT H BARS WHEN SOFFIT OF SPUR IS 12" OR LESS BELOW SOFFIT OF MAIN LINE AND OMIT G BARS WHEN INVERT OF SPUR IS 12" OR LESS ABOVE FLOOR LINE AT MAIN LINE.
 - JUNCTION STRUCTURE SHALL BE POURED MONOLITHICALLY WITH MAIN LINE STORM DRAIN, MANHOLE OR TRANSITION.
 - FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO THE SPRING LINE.
 - STRUCTURAL CONCRETE SHALL BE CLASS "A".
 - EMBEDMENT P SHALL BE 5" FOR B = 96" OR LESS AND 8" FOR B OVER 96".
 - BACKFILL UNDER STRUCTURE WITH 1-3-5 MIX CONCRETE, OR COMPACT SOIL TO RELATIVE DENSITY REQUIRED BY SPECIFICATIONS. BACKFILL MAY BE OMITTED IF STRUCTURE IS LAID ON UNDISTURBED EARTH TO STORM DRAIN WALL.



SECTION G-G

#4 @ 18 E.W. WHEN B IS 60" OR OVER

#3 @ 18

Q OF SPUR

F BARS #3 @ 18 W BARS D & E BARS D.E.H & G BARS

ROUND EDGES TO APPROX. RADIUS OF I.D. OF LATERAL WITH A MAX. OF 36"

CONSTRUCTION JOINT

PLAN

NEW OR EXISTING CONSTRUCTION

ANY STANDARD PIPE JOINT

UNDISTURBED EARTH BACKFILL (SEE NOTE 8)

W BARS

2-H BARS 4" O.C.

ROUND EDGES

ELEV. S

2-G BARS 4" O.C.

ELEV. R

SECTION P-P

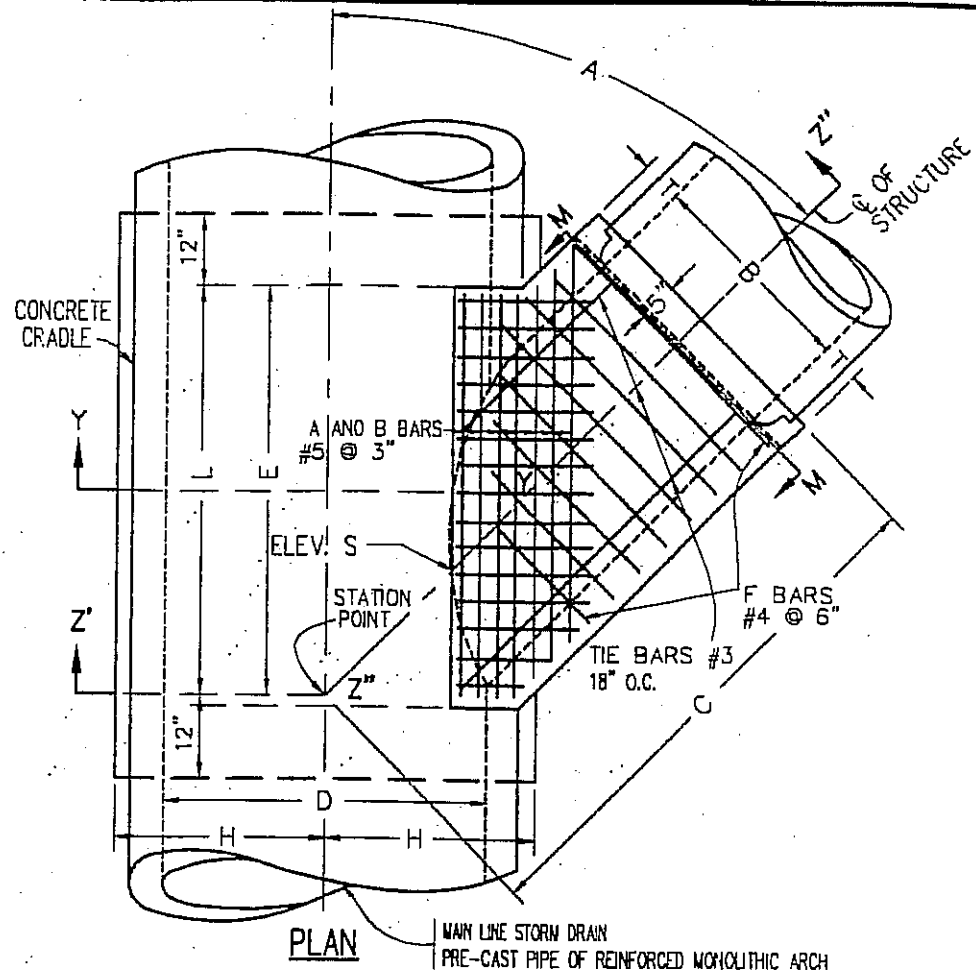
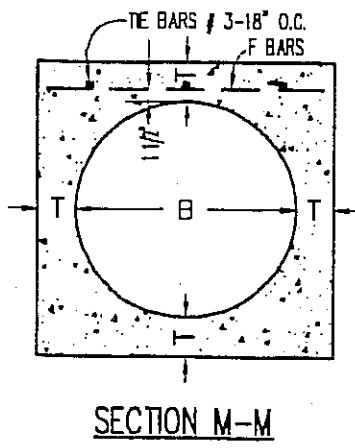
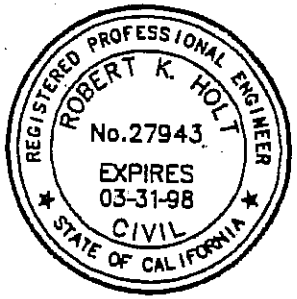
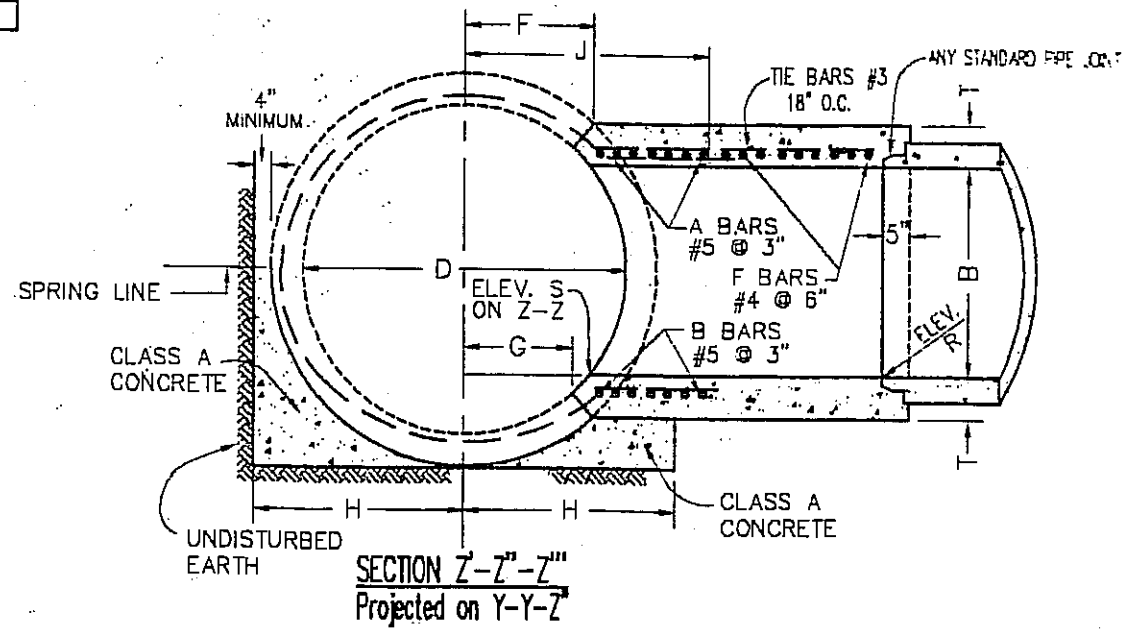


TABLE OF VALUES FOR T


B	T
12"	4"
15"	4 1/4"
18"	4 1/2"
21"	5"
24"	5 1/4"
27"	5 1/2"
30"	6"
33"	6 1/4"
36"	6 1/2"
39"	7"



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE



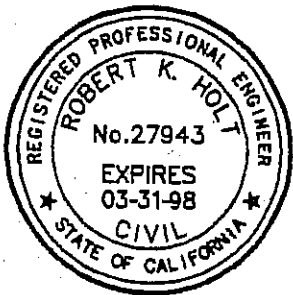
Town of
Yucca Valley

JUNCTION STRUCTURE
NO. 2

STANDARD DRAWING NO. 411

NOTES FOR JUNCTION STRUCTURE NO. 2

1. VALUES FOR A, B, C, D, E, F, G, L, ELEVATION R, AND ELEVATION S. SHOWN ON IMPROVEMENT PLAN.
2. PIPE SHALL BE CRADLED IN CLASS A CONCRETE EXTENDING LONGITUDINALLY TO POINTS 1 FT. BEYOND THE LIMITS OF L. $H=1/2$ OUTSIDE DIAMETER OF PIPE + 4" AS A MINIMUM. CRADLE MAY BE OMITTED ON SIDE OPPOSITE LATERAL INLET WHEN CONSTRUCTED IN CONNECTION WITH EXISTING STORM DRAIN.
3. A AND B BARS SHALL BE CARRIED TO POINT NOT LESS THAN J DISTANCE FROM CENTERLINE, $J=\frac{7D}{12}+6"$.
4. RECTANGULAR OPENING IN MAIN LINE PIPE SHALL BE CUT WITHIN THESE LIMITS NORMAL TO PIPE SURFACE WITHOUT DAMAGING STEEL. VALUES FOR F, G, AND L ON IMPROVEMENT PLAN.
5. TRANSVERSE REINFORCEMENT IN PIPE SHALL BE CUT IN CENTER OF OPENING AND BENT TO UNIFORM DISTANCE FROM TOP AND BOTTOM OF JUNCTION STRUCTURE.
6. STRUCTURAL CONCRETE SHALL BE CLASS "A".
7. REINFORCING STEEL SHALL BE ROUND, DEFORMED, STRAIGHT BARS, 1-1/2" CLEAR FROM INSIDE FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
8. STEEL SCHEDULE AS SHOWN.
9. MONOLITHIC ARCH: WHEN JUNCTION STRUCTURE NO. 2 IS SPECIFIED WITH REINFORCED MONOLITHIC ARCH STORM DRAIN, VALUE D SHALL REFER TO THE CLEAR SPAN OF THE ARCH. REINFORCING STEEL SHALL BE CUT AND BENT INTO JUNCTION STRUCTURE THE SAME AS FOR PIPE. CONCRETE CRADLE UNDER REINFORCED MONOLITHIC ARCH IS NOT REQUIRED.
10. FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO SPRING LINE.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



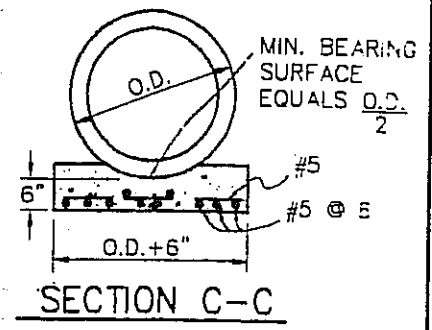
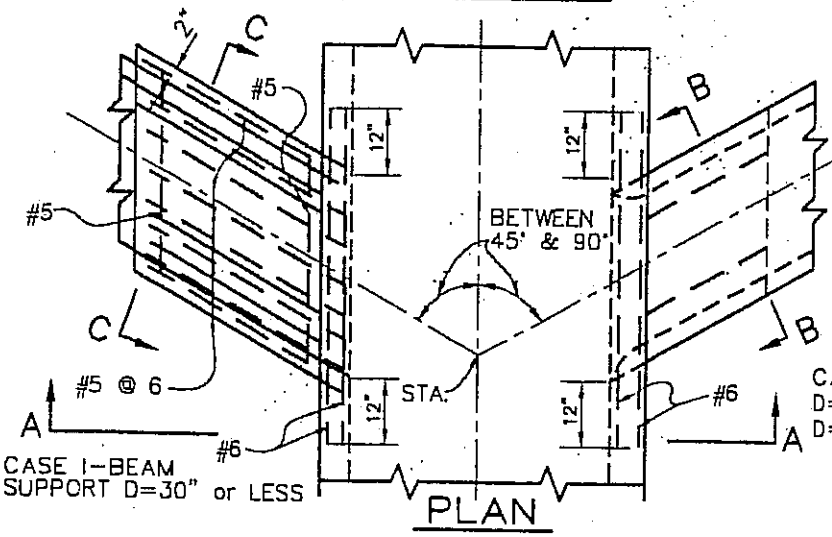
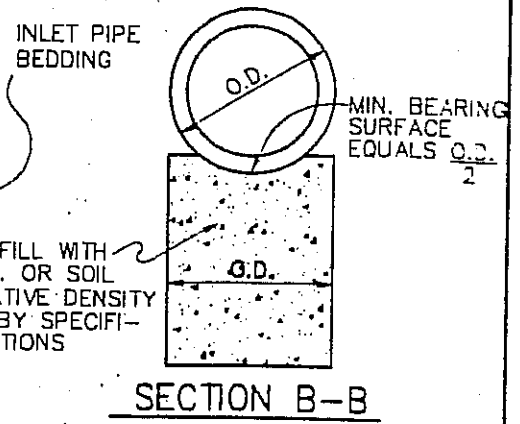
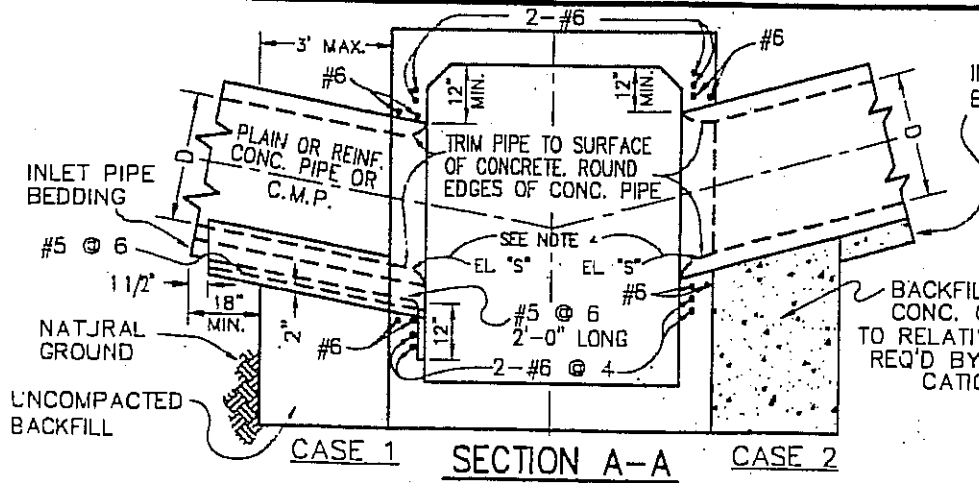
Town of
Yucca Valley

JUNCTION STRUCTURE
NO. 2

REVISION

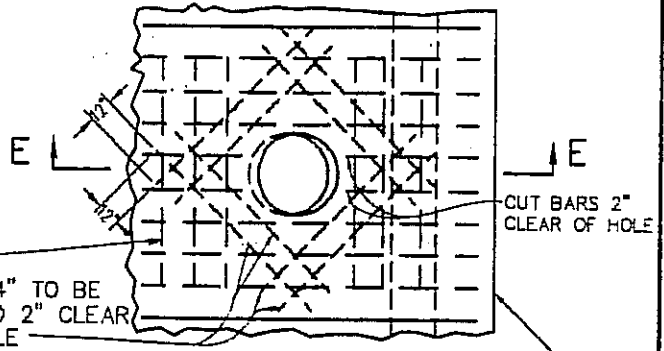
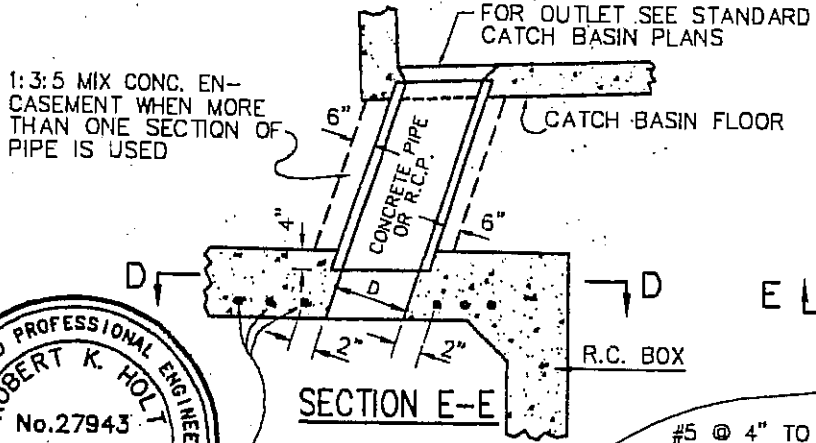
BY DATE

STANDARD DRAWING NO. 411A

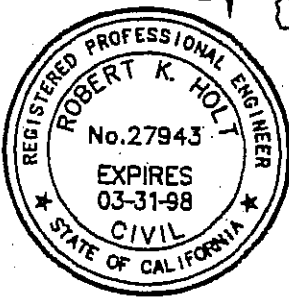


CASE 2-COLUMN SUPPORT
 D=60" OR LESS FOR C.M.P.
 D=30" OR LESS FOR R.C.P. OR C.P.

- NOTES:**
1. ALL CORRUGATED METAL PIPE AND FITTINGS SHALL BE GALVANIZED
 2. USE JUNCTION STRUCTURE NO. 1 WHERE SIZE OF THE INLET PIPE EXCEEDS DIMENSIONS GIVEN ABOVE.
 3. UNLESS OTHERWISE SPECIFIED, CASE 2 SUPPORT SHALL BE USED.
 4. ELEVATION "S" SHALL BE SPECIFIED ON PROJECT DRAWINGS.



SECTION D-D
 CASE 3-TOP SLAB ENTRANCE
 D=30" OR LESS



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt

R.C.E. 27943

REVISION	BY	DATE



Town of
Yucca Valley

JUNCTION STRUCTURE
 NO. 3

STANDARD DRAWING NO. 412

PLAIN OR REINFORCED CONCRETE PIPE OR C.M.P.

ELEVATION "S" SEE NOTE BELOW

ENDING OF INLET PIPE

BACKFILL WITH CONCRETE TO SPRING LINE OF LATERAL OR COMPACT SOIL TO RELATIVE DENSITY REQUIRED BY SPECIFICATIONS.

PIPE BEDDING
UNDISTURBED EARTH

SECTION B-B
CASE-1

BURN OR CUT PIPE TO SURFACE OF CONCRETE AND ROUND EDGES.

FOR OUTLET SEE STD. CATCH BASIN PLANS.

CATCH BASIN FLOOR

1:3:5 MIX CONC. ENCASEMENT

CASE-2

CATCH BASIN ABOVE STORM DRAIN

NOTE:

ALL CONNECTOR PIPES (WITHIN THE ANGLES SPECIFIED FOR CASE 2) SHALL BE ENCASED WHEN LAID WITHIN THE MAIN LINE EXCAVATED TRENCH, OR WHEN LAID ON FILL WHICH HAS NOT BEEN DENSIFIED.

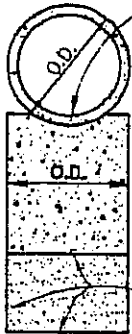
NOTES: CASES 1&2

- D SHALL BE 24" OR LESS, AND IN NO CASE SHALL THE OUTSIDE DIAMETER OF THE INLET PIPE EXCEED ONE-HALF THE INSIDE DIAMETER OF THE MAIN LINE. IF α IS 45° OR LESS, USE CASE 1. IF α IS GREATER THAN 45°, USE CASE 2.
- C OF INLET SHALL BE ON RADIUS OF MAIN STORM DRAIN EXCEPT WHEN ELEVATION "S" IS SHOWN ON THE PROJECT DRAWING PROFILE.
- THE MINIMUM OPENING INTO THE EXISTING STORM DRAIN SHALL BE THE OUTSIDE DIAMETER OF THE CONNECTING PIPE + 1 INCH.
- ALL CORRUGATED METAL PIPE AND FITTINGS SHALL BE GALVANIZED.
- STA. AT F.L. & CENTER OF PIPE, SHOWN ON PROJECT DWG. PROFILE.

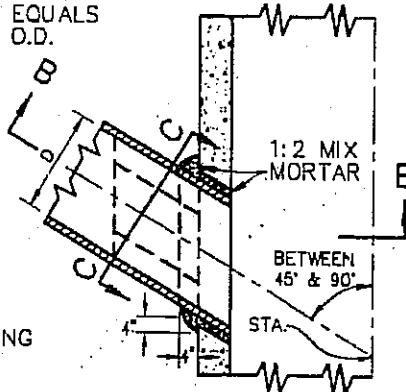
NOTES: CASE-3-SADDLE CONNECTION

- CONNECTIONS TO PIPES 21" OR LESS IN DIAMETER WITHOUT JUNCTION STRUCTURES OR PRECAST Y BRANCHES SHALL BE MADE WITH SADDLES.
- TRIM OR CUT SADDLE TO FIT SNUGLY OVER THE OUTSIDE OF THE MAIN PIPE AND SO ITS AXIS WILL BE ON THE LINE AND GRADE OF THE CONNECTING PIPE.
- THE OPENING INTO THE PIPE SHALL BE CUT AND TRIMMED TO FIT THE SADDLE SO THAT NO PART WILL PROJECT WITHIN THE BORE OF THE SADDLE PIPE.
- THE CONNECTION PIPE SHALL BE SUPPORTED AS SHOWN IN CASE 1 AND 2.

MINIMUM BEARING SURFACE EQUALS 1/2 D.D.



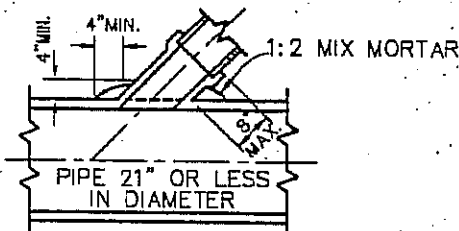
PIPE BEDDING



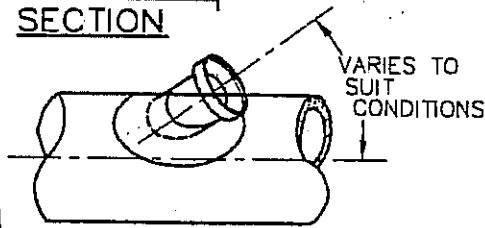
SECTION C-C

SECTION A-A

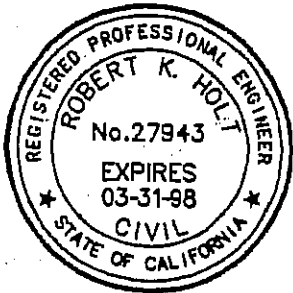
CASE-1-SIDE INLET



SECTION



PLAN
CASE-3-SADDLE CONNECTION



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



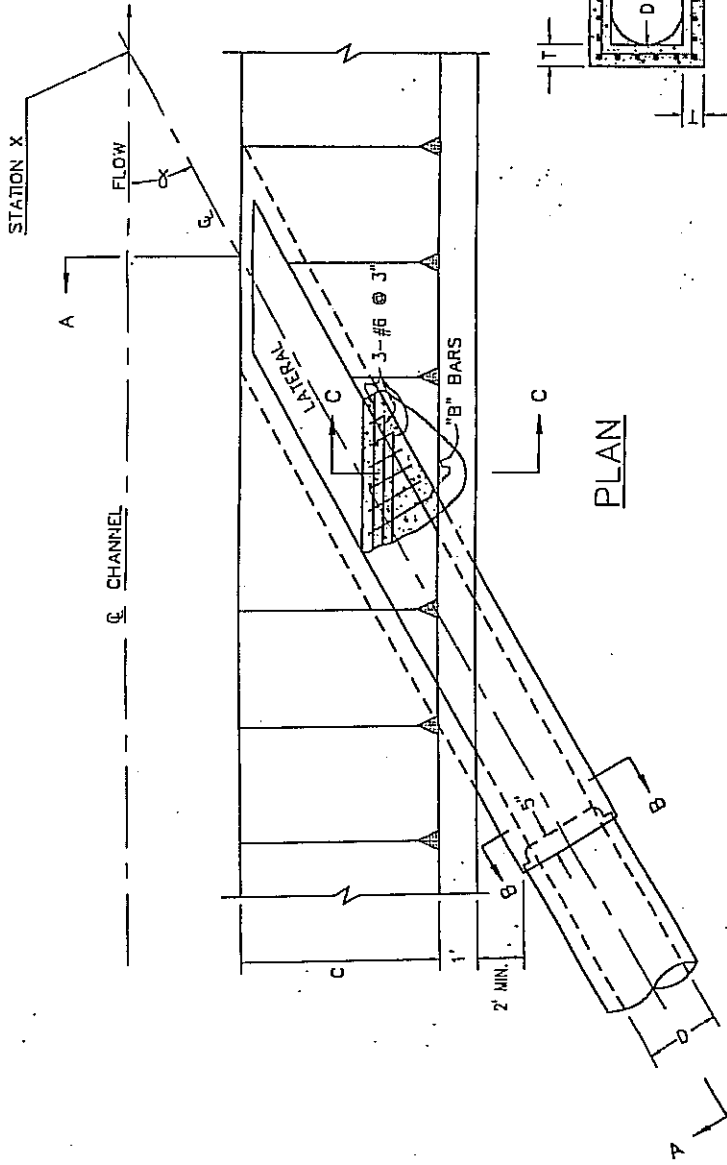
Town of
Yucca Valley

JUNCTION STRUCTURE
NO. 4

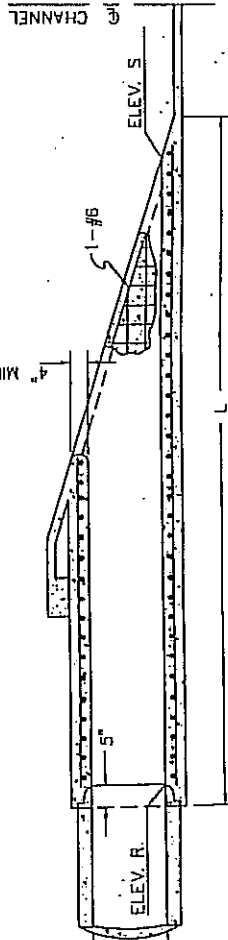
STANDARD DRAWING NO. 413

REVISION

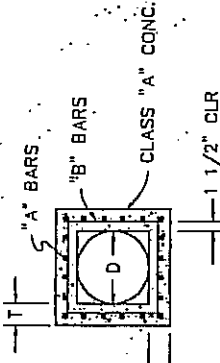
BY DATE



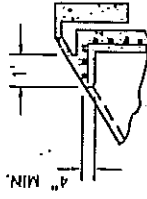
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

TABLE FOR DIMENSIONS AND BAR SIZES

D (IN.)	T (IN.)	A BARS	B BARS
18	4.5		
21	5		
24	5.25		
27	5.5		
30	6		
33	6.25		
36	6.5		
39	7		
42	7.5		
45	7.75		
48	8		
51	8.5		
54	9		
57	9.25		
60	9.5		

NOTES:

- VALUES FOR C, D, L, ELEV. S, ELEV. R, α AND STA. X ARE SHOWN ON PROJECT DRAWINGS.
- REINFORCING STEEL SHALL BE STRAIGHT BARS 1.5" CLEAR FROM FACE OF CONCRETE.

APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER *Robert K. Holt* R.C.E. 27943

REVISION _____ BY _____ DATE _____



City of **Yuca Valley**

JUNCTION STRUCTURE NO. 5

STANDARD DRAWING NO. 414

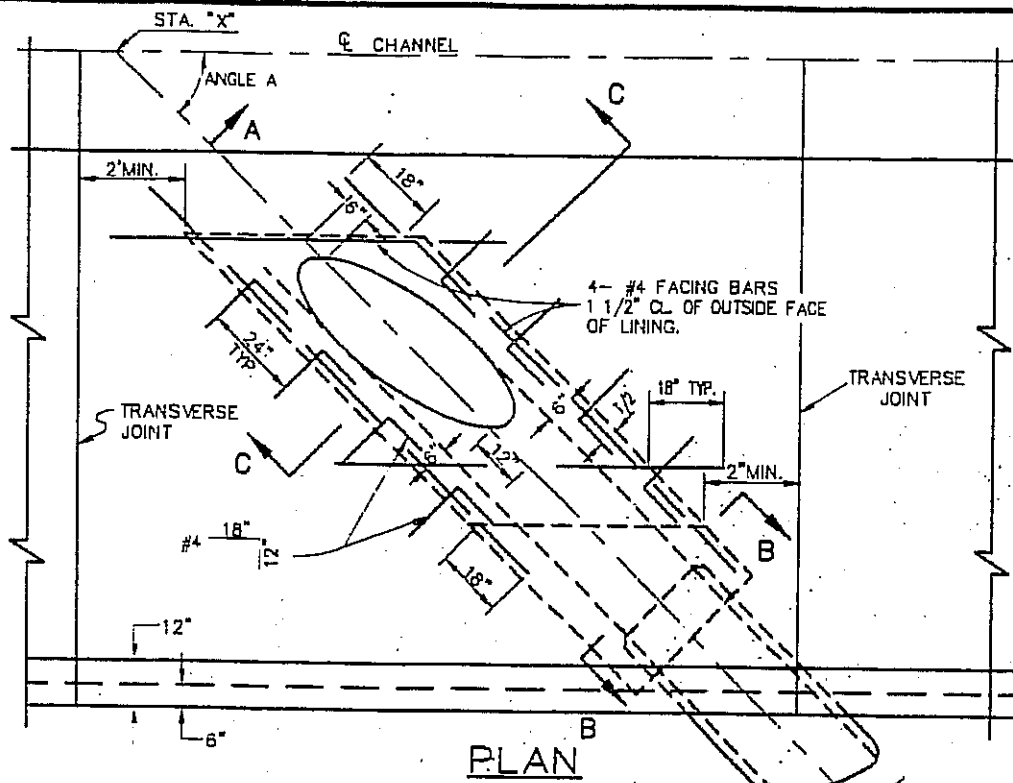
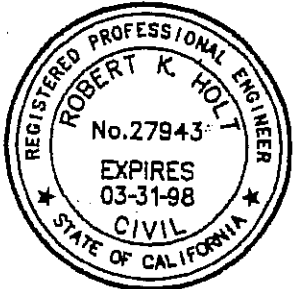
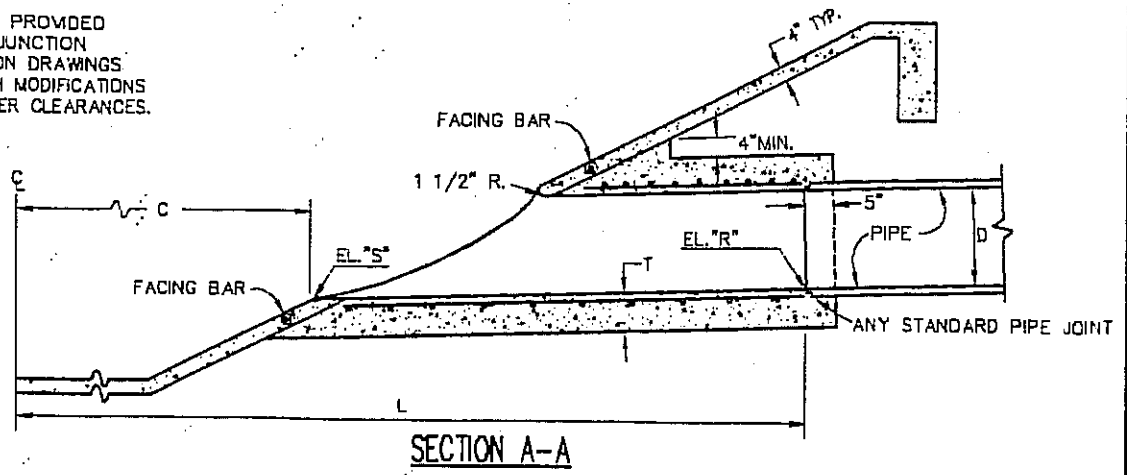
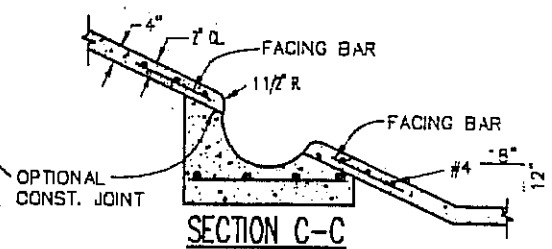
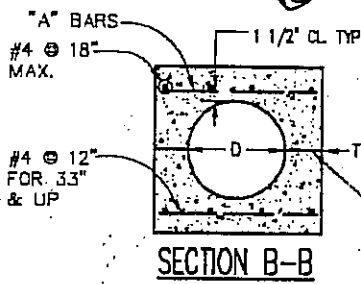


TABLE
FOR DIMENSIONS AND BAR SIZES

D (IN)	T (IN)	"A" BARS
18	9	NO
21	9	LONGITUDINAL
24	9	
27	9	
30	9	OR
33	7	"A" BARS
36	7	#4 @ 6"
39	7	
42	8	#5 @ 6"
45	8	
48	8	
51	9	
54	9	
57	10	
60	10	
63	10	
66	11	
69	11	
72	11	
78	12	
84	13	

NOTES:

- VALUES FOR D, L, C, EL. R, EL. S, ANGLE A AND STA. "X" ARE TO BE SHOWN ON PROJECT DRAWINGS.
- REINFORCING BARS SHALL BE PLACED 1 1/2" CLEAR FROM FACE OF CONCRETE.
- CONCRETE SHALL BE CLASS "B".
- PLACE #4-12"x18" BARS WITH SHORT LEG HORIZONTAL IN VERTICAL J.S. WALL. ROTATE LONGER LEG INTO CENTER OF SLOPE PAVING.
- REINFORCEMENT SHALL BE PROVIDED IN ALL PORTIONS OF THE JUNCTION STRUCTURE AS INDICATED ON DRAWINGS REGARDLESS OF BAR LENGTH MODIFICATIONS REQUIRED TO ACHIEVE PROPER CLEARANCES.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

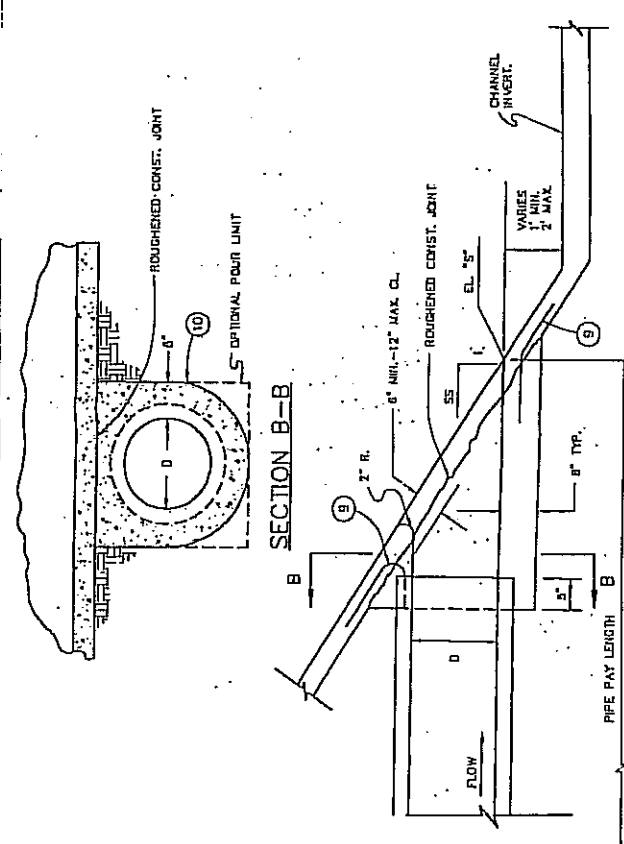
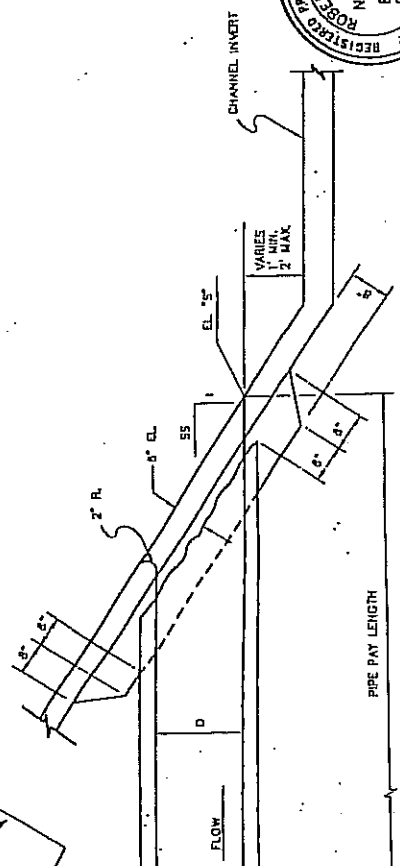
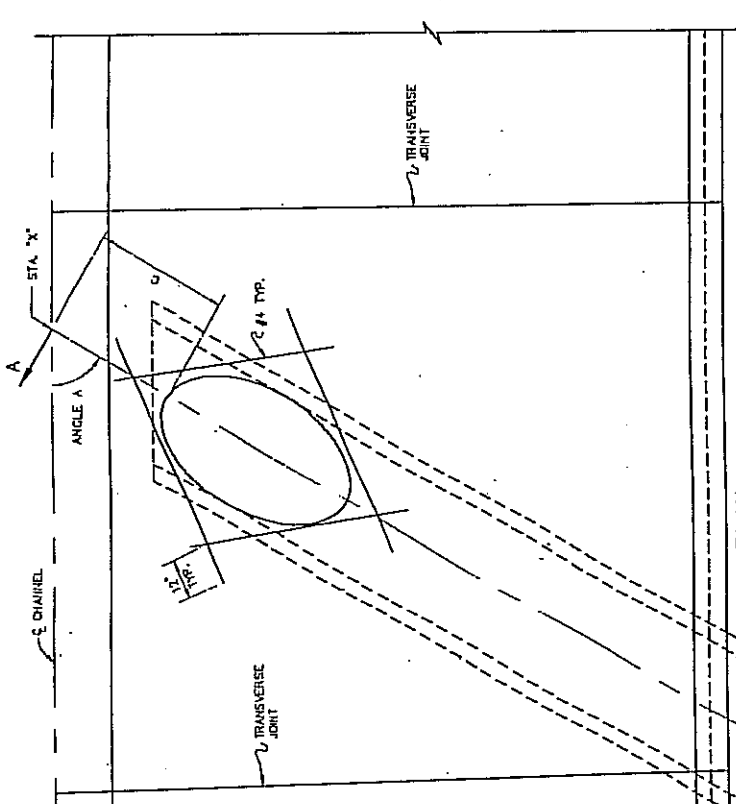


Town of
Yucca Valley

JUNCTION STRUCTURE
NO. 6

REVISION	BY	DATE

STANDARD DRAWING NO. 415



NOTES:

1. THE CONTRACTOR HAS THE OPTION TO CONSTRUCT CASE 1 OR CASE 2 UNLESS OTHERWISE NOTED.
2. HORIZONTAL ANGLE OF CONFLUENCE, "A" MUST BE BETWEEN 80° AND 90°.
3. VALUES FOR D, SS, "A", C, EL "5", AND STA. "X" SHALL BE SHOWN ON PROJECT DRAWINGS.
4. D SHALL NOT EXCEED 24".
5. SIDE SLOPE, SS, SHALL NOT BE FLATTER THAN 2:1.
6. ALL CONCRETE SHALL BE CLASS B.
7. JUNCTION STRUCTURE NO. 7 TO BE USED ON TRAPEZOIDAL CHANNELS ONLY.
8. CASE 1 SHALL BE MONOLITHICALLY POURED WITH CHANNEL AND CASE 2 SHALL BE POURED SEPARATE FROM THE CHANNEL.
9. 1-#4 X 2' TIES SPACED EQUALLY, TYP.

APPROVED: _____ DATE _____

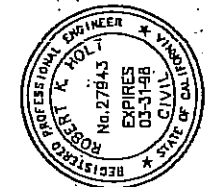
APPROVED: TOWN ENGINEER
Robert K. Holl
R.C.E. 27943

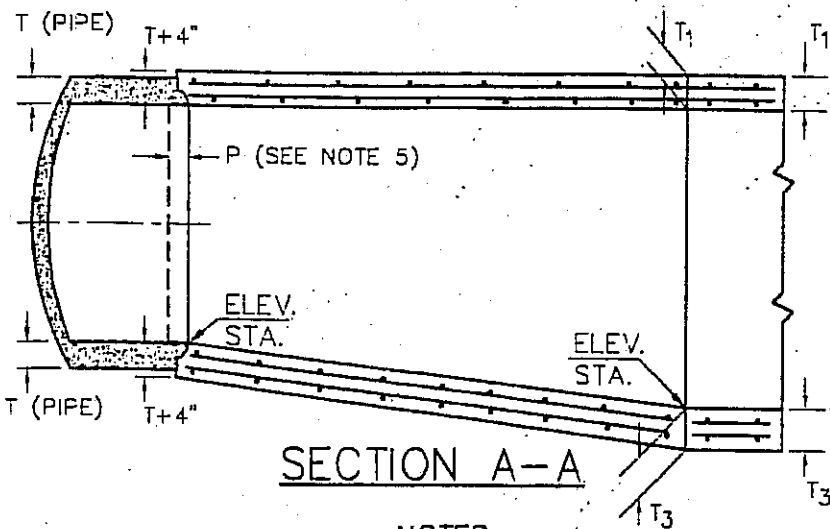
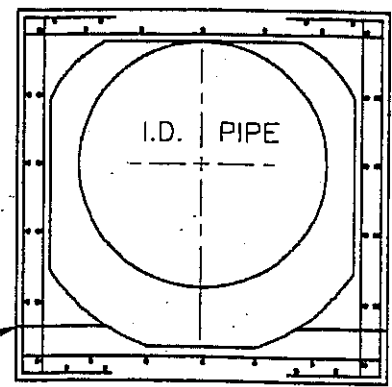
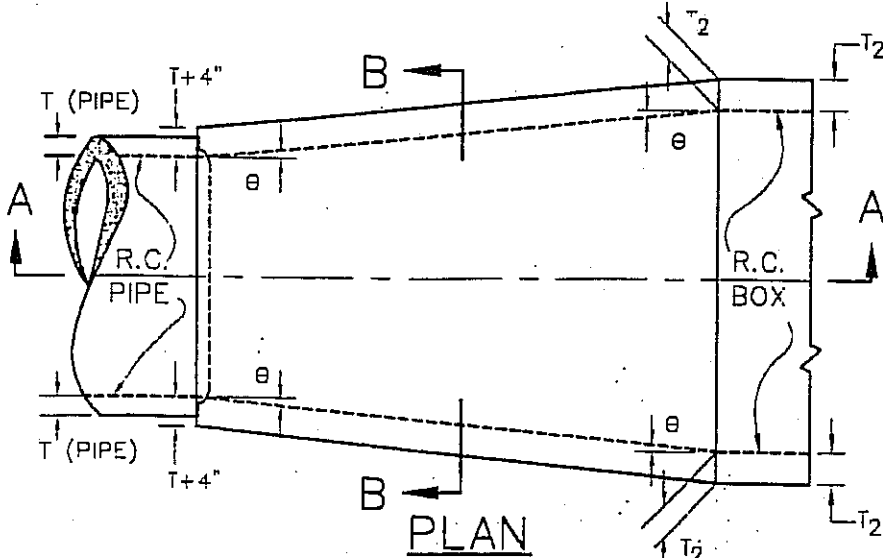
REVISION _____ BY _____ DATE _____

TEAM OF
Nevada Valley

JUNCTION STRUCTURE NO. 7

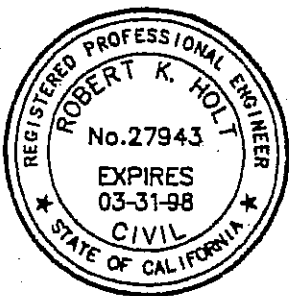
STANDARD DRAWING NO. 416





NOTES:

1. THE HORIZONTAL ANGLE OF DIVERGENCE OR CONVERGENCE, θ , SHALL NOT EXCEED $5^{\circ} 45'$.
2. REINFORCING STEEL BAR SIZES, SPACING, PATTERN AND COVER OVER THE STEEL SHALL BE THAT OF THE BOX SECTION. THE BAR LENGTHS SHALL VARY UNIFORMLY THROUGHOUT THE TRANSITION.
3. THE CONCRETE THICKNESS SHALL BE THAT OF THE BOX SECTION UNLESS THE WALL THICKNESS OF THE PIPE PLUS 4 INCHES IS GREATER, IN WHICH CASE THE CONCRETE THICKNESS SHALL VARY UNIFORMLY FROM THAT OF THE BOX SECTION TO THAT OF THE PIPE WALL PLUS 4 INCHES.
4. THE INTERIOR SURFACE SHALL BE SMOOTH AND VARY UNIFORMLY BETWEEN THE TWO ADJOINING SECTIONS.
5. AT THE PIPE JUNCTURE, EMBEDMENT P SHALL BE 5 INCHES FOR PIPE SIZES OF 96 INCHES OR LESS, AND 8 INCHES FOR PIPE OVER 96 INCHES.
6. CONSTRUCTION JOINTS OF THE SAME DIMENSIONS AS THOSE OF THE BOX MAY BE CARRIED THROUGH THE TRANSITION STRUCTURE AT CONTRACTOR'S OPTION. SEE SEC. B-B ABOVE.
7. THE TRANSITION STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL CONSTRUCTION NOTES APPLYING TO BOX AS SHOWN ON THE PROJECT DRAWINGS.
8. STRUCTURAL CONCRETE SHALL BE CLASS "A".



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



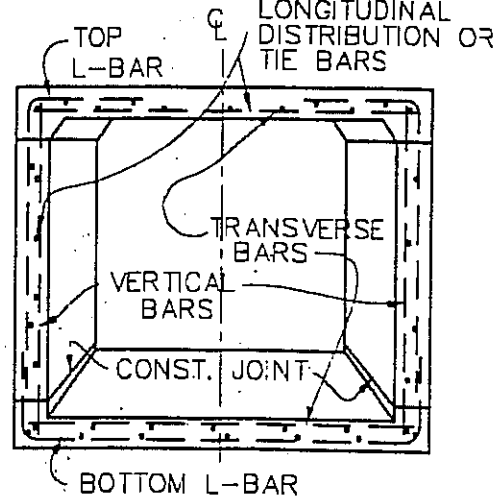
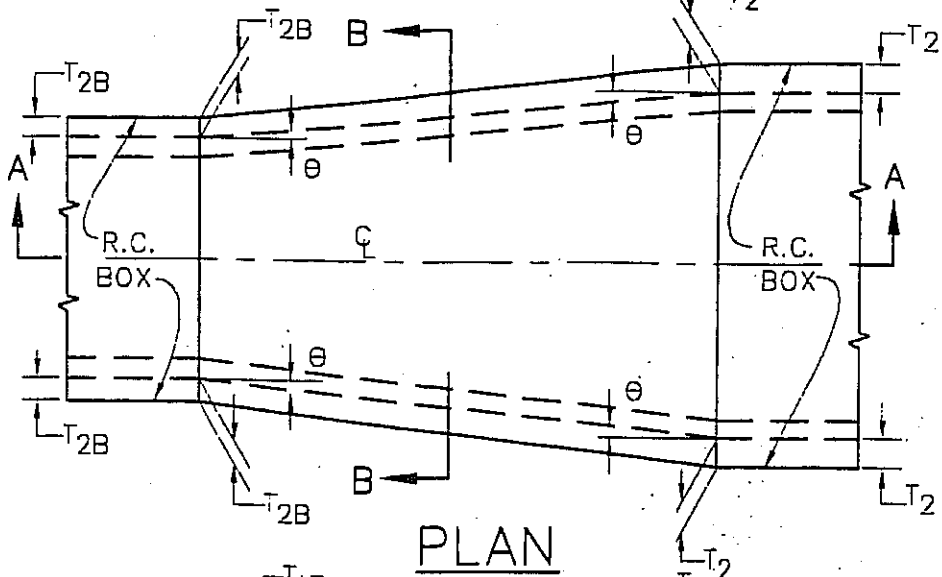
Town of
Yucca Valley

TRANSITION STRUCTURE
NO. 1

REVISION

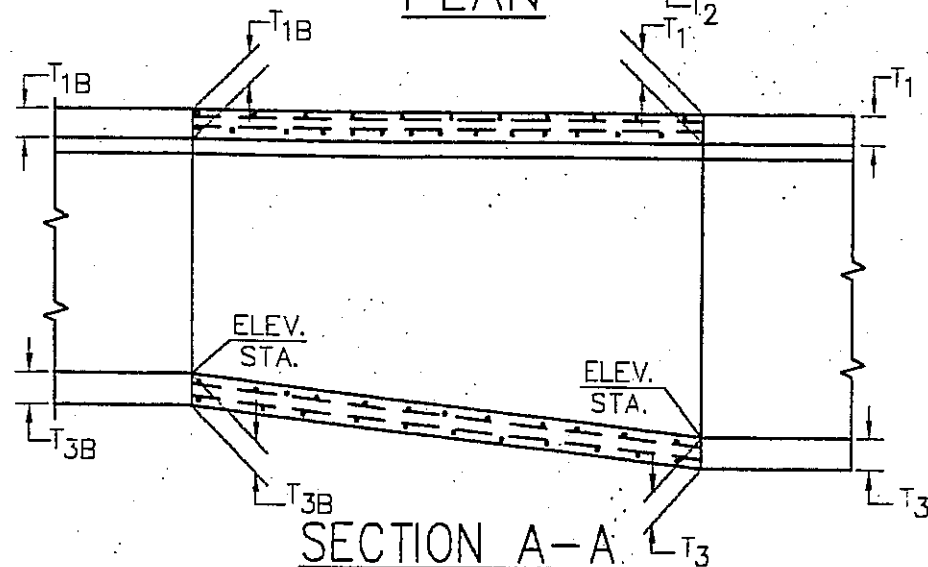
BY DATE

STANDARD DRAWING NO. 420



PLAN

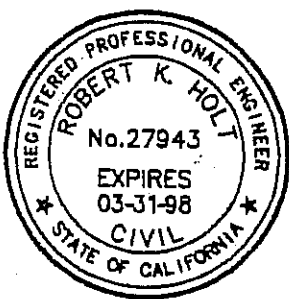
SECTION B-B



SECTION A-A

NOTES:

1. THE HORIZONTAL ANGLE OF DIVERGENCE OR CONVERGENCE, θ SHALL NOT EXCEED $5^{\circ}45'$.
2. THE REINFORCING STEEL BAR SIZE, SPACING AND COVER OVER THE STEEL OF STRAIGHT TRANSVERSE BARS IN TOP OR BOTTOM SLABS, OF L-BARS IN TOP OR BOTTOM CORNERS, OF STRAIGHT VERTICAL BARS IN SIDE WALLS, AND OF LONGITUDINAL DISTRIBUTION AND TIE BARS IN TOP OR BOTTOM SLABS OR SIDE WALLS SHALL BE THOSE OF WHICH-EVER ADJOINING BOX SECTION PROVIDES THE GREATER STEEL AREA FOR EACH TYPE OF BAR. THE BAR LENGTH SHALL VARY UNIFORMLY THROUGHOUT THE TRANSITION.
3. THE THICKNESS OF THE WALLS AND SLABS SHALL BE THOSE OF THE ADJOINING BOX SECTION AT EACH OF THE TRANSITION AND SHALL VARY UNIFORMLY BETWEEN THE TWO ENDS.
4. STRUCTURAL CONCRETE SHALL BE CLASS "A".
5. THE TRANSITION STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL STRUCTURAL NOTES APPLYING TO BOX STRUCTURES, SHOWN ON THE PROJECT DRAWINGS.
6. DETAILS OF CONSTRUCTION JOINTS SHALL BE AS SHOWN ON THE PROJECT DRAWINGS FOR SINGLE BARREL BOX STRUCTURES.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

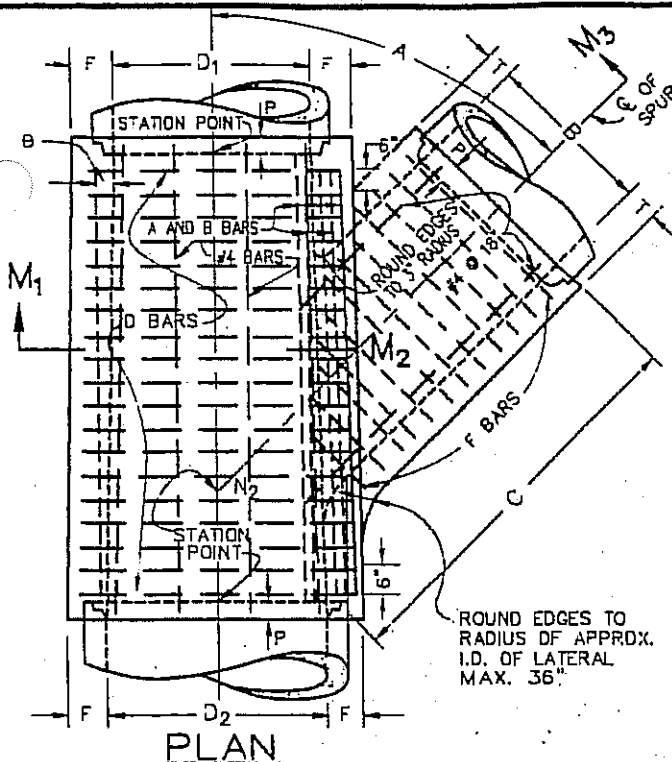


Town of
Yucca Valley

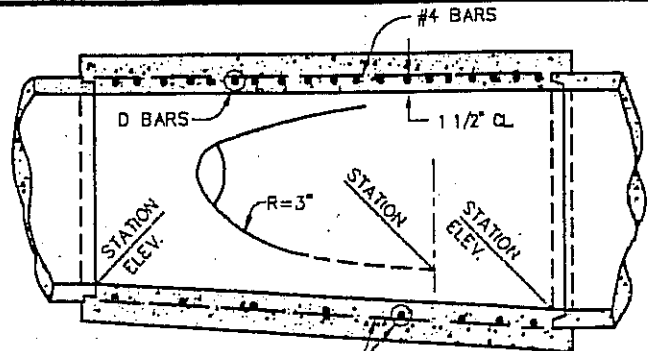
TRANSITION STRUCTURE
 NO. 2

REVISION	BY	DATE

STANDARD DRAWING NO. 421



PLAN



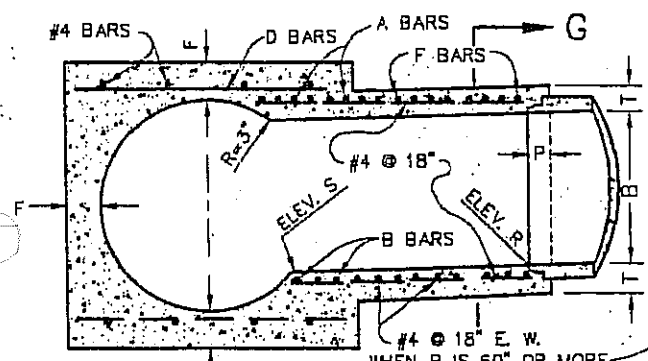
LONGITUDINAL SECTION

* USE D₂ OR D₁; WHICHEVER IS GREATER, OR B.

ROUND EDGES TO RADIUS OF APPROX. I.D. OF LATERAL MAX. 36"

TABLE FOR DIMENSIONS AND BAR SIZE

* D ₂ , D ₁ OR B	T	A OR B BARS	D OR F BARS	P
12	4	# 5 @ 3	# 4 @ 6	5"
15	4 1/4			
18	4 1/2			
21	5			
24	5 1/4			
27	5 1/2			
30	6			
33	6 1/4			
36	6 1/2			
39	7			
42	7 1/2	# 6 @ 3	# 5 @ 6	5"
45	7 3/4			
48	8			
51	8 1/2			
54	9			
57	9 1/4			
60	9 1/2			
63	10			
66	10 1/4			
69	10 3/4			
72	11	# 7 @ 3	# 6 @ 6	6"
78	11 3/4			
84	12 1/2			
90	13 1/4			
96	14			
102	15 1/2			
108	16			
114	16 1/2			
120	17			
126	17			
132	17 1/2			
138	17 1/2			
144	18			



SECTION M₁, M₂, M₃

SECT. G-G

- NOTES:
1. THE HORIZONTAL ANGLE OF DIVERGENCE OR CONVERGENCE, θ , SHALL NOT EXCEED 5°45'.
 2. VALUES FOR A, B, C, D₁, D₂, ELEV. R AND ELEV. S ARE SHOWN ON IMPROVEMENT PLAN. THE LENGTH OF THE STRUCTURE MAY BE INCREASED TO MEET PIPE ENDS USING D BARS IN EXTENDED PORTION OF SAME DIAMETER AND SPACING AS SPECIFIED.
 3. CONCRETE SHALL BE CLASS "A". FLOOR OF THE STRUCTURE SHALL BE STEEL-TROWELED TO SPRING LINE. STRUCTURE SHALL BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING AT THE SPRING LINE A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY.
 4. REINFORCING STEEL CLEAR COVER SHALL BE 1 1/2" ON INSIDE. TIE BARS SHALL BE NO. 4 AND SPACED 18" O.C.
 5. WHEN DIMENSION C IS NOT SPECIFIED THE SPUR SHALL NOT BE CONSTRUCTED AND A AND B BARS SHALL BE OMITTED.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE

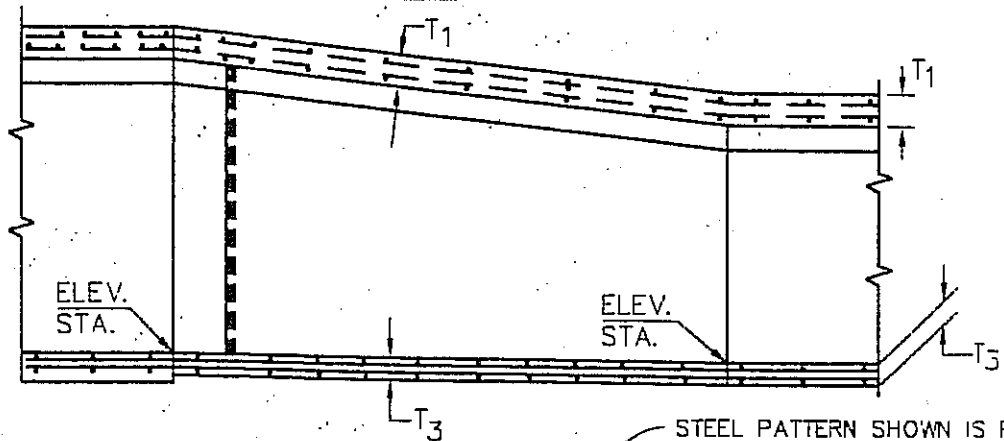
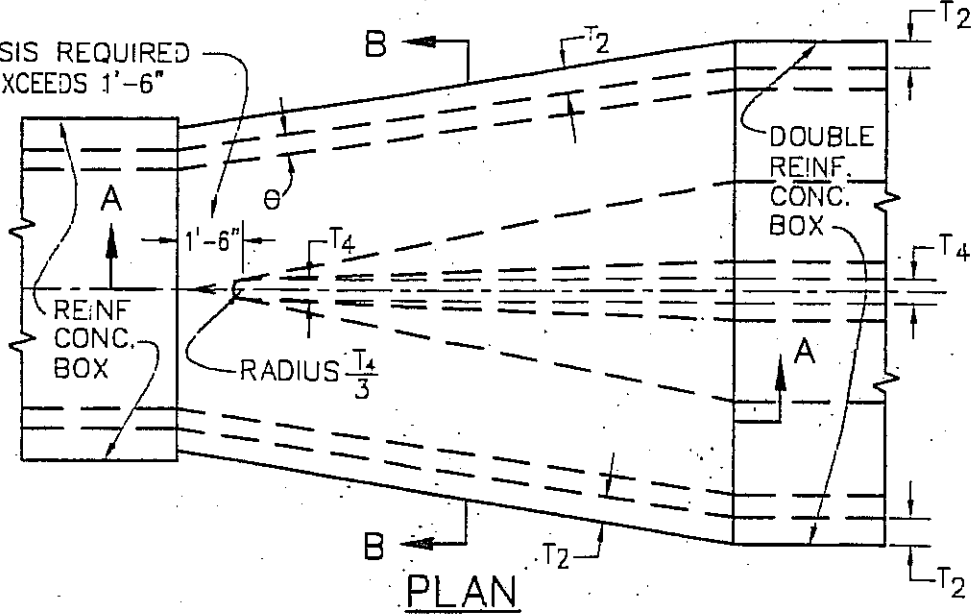


Town of
Yucca Valley

TRANSITION STRUCTURE
NO. 3

STANDARD DRAWING NO. 422

STRUCTURAL ANALYSIS REQUIRED
WHEN THIS DIMENSION EXCEEDS 1'-6"

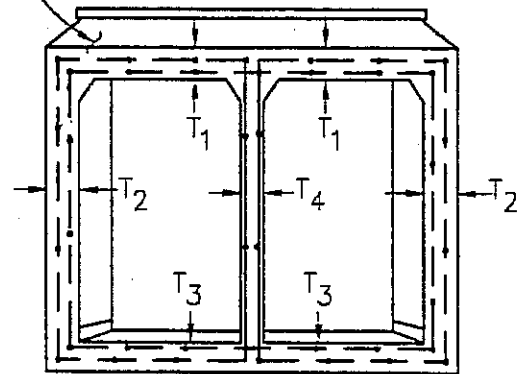


SECTION A-A

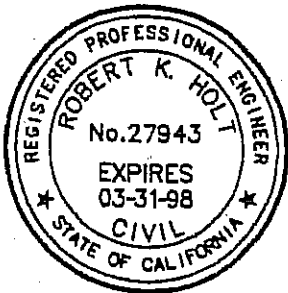
NOTES:

1. THE HORIZONTAL ANGLE OF DIVERGENCE OR CONVERGENCE, θ SHALL NOT EXCEED $5^\circ 45'$.
2. REINFORCING STEEL BAR SIZE, SPACING AND OUTSIDE COVER SHALL BE THAT OF DOUBLE BOX SECTION. FOR CURVED TRANSITIONS, SPACE BARS ON CENTERLINE AND PLACE TRANSVERSE STEEL RADIALLY. THE BAR LENGTHS AND DIMENSIONS SHALL VARY UNIFORMLY THROUGHOUT TRANSITION. LONGITUDINAL BARS SHALL BE CONTINUED THROUGH JOINTS WITH THE TRANSITION STRUCTURE.
3. THE CONCRETE THICKNESS SHALL BE THAT OF THE DOUBLE BOX SECTION.
4. PLAN AS SHOWN IS FOR DOUBLE BOX SECTION DOWNSTREAM. WHEN DOUBLE BOX SECTION IS UPSTREAM, TAPER THE LAST 2 FT. OF CENTER WALL TO END IN 1-1/2 INCH RADIUS.
5. STRUCTURAL CONCRETE SHALL BE CLASS "A".
6. TRANSVERSE JOINT KEYWAYS AS DETAILED FOR LONGITUDINAL JOINT KEYWAYS AT BASE OF OUTER WALLS ON THE PROJECT DRAWINGS, SHALL BE PLACED IN BOTH SLABS AND WALLS AT THE END OF EACH POUR.

STEEL PATTERN SHOWN IS PICTORIAL ONLY. SEE PROJECT DRAWINGS FOR ACTUAL STEEL LAYOUT.



SECTION B-B



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



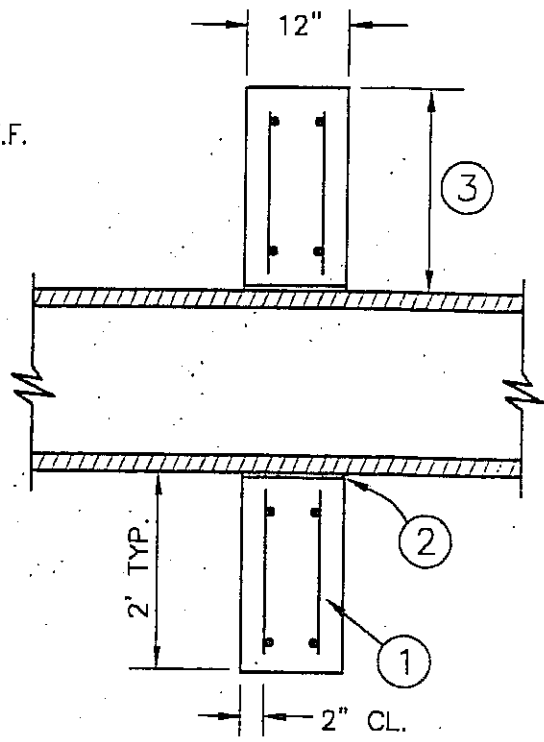
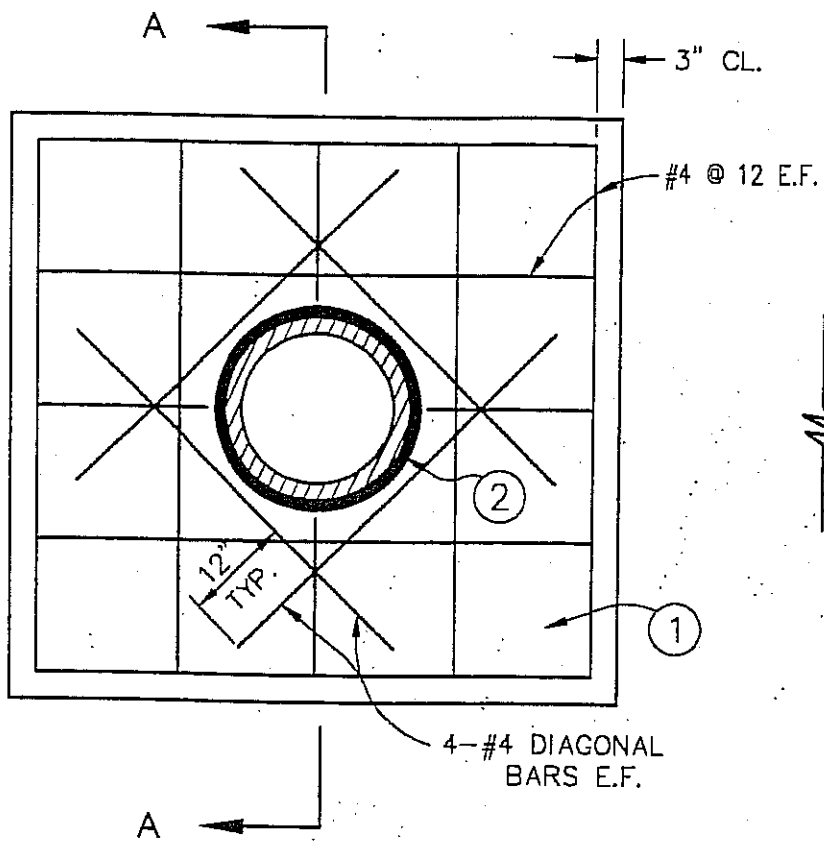
Town of
Yucca Valley

TRANSITION STRUCTURE
NO. 4

REVISION

BY DATE

STANDARD DRAWING NO. 423



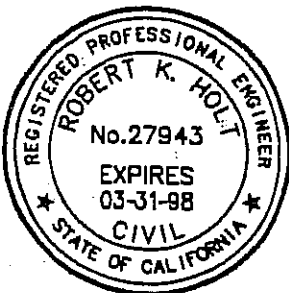
TYPICAL SECTION

SECTION A-A

CONNECTOR PIPE COLLAR

NOTES:

- ① CONCRETE SHALL BE CLASS "B" CONCRETE.
- ② 1/2" PREFORMED BITUMINOUS JOINT MATERIAL.
- ③ 2' WITH MIN. 6" BELOW GRADE OR AS DIRECTED BY ENGINEER.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

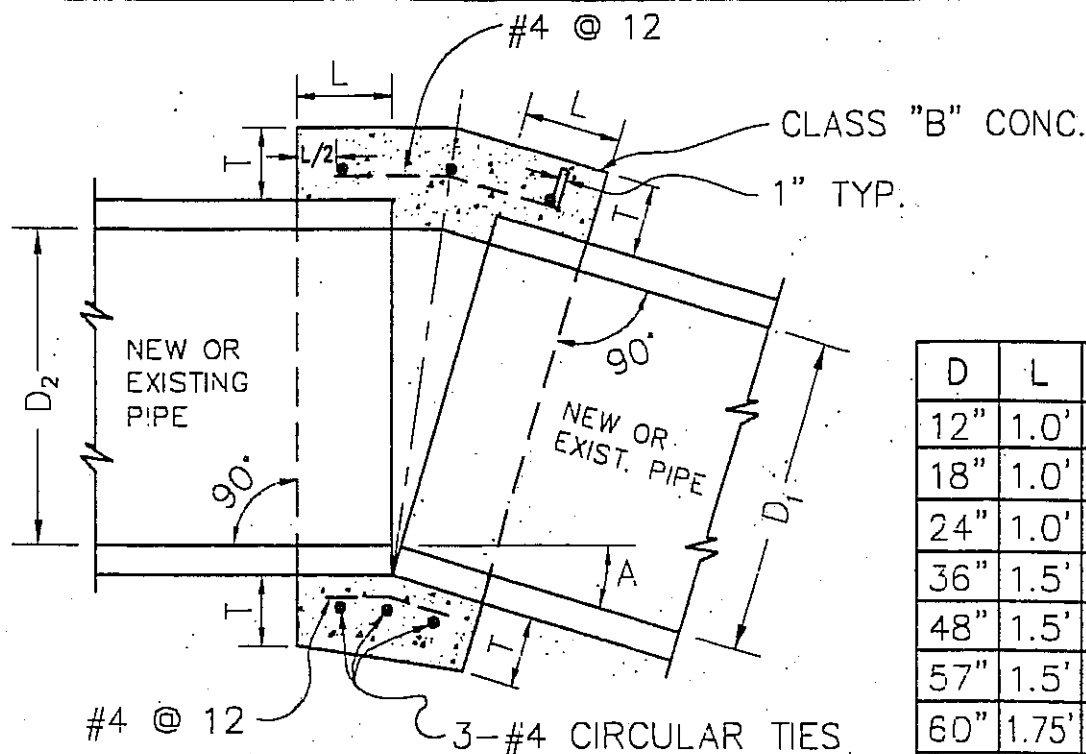
REVISION	BY	DATE



Town of
Yucca Valley

CONNECTOR PIPE
 COLLAR

STANDARD DRAWING NO. 430



D	L	T
12"	1.0'	4"
18"	1.0'	5"
24"	1.0'	6"
36"	1.5'	8"
48"	1.5'	10"
57"	1.5'	10"
60"	1.75'	11"
66"	1.75'	11"

NOTES:

1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 0.10 FT. PER FOOT, OR IF CHANGE IN ALIGNMENT EXCEEDS 0.10 FT PER FOOT.
2. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. $D = D_1$ OR D_2 WHICHEVER IS GREATER.
3. FOR PIPE LARGER THAN 66" A SPECIAL COLLAR DETAIL IS REQUIRED.
4. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
5. OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE "A" IS LESS THAN 10°.
6. WHERE REINFORCING IS REQUIRED, THE DIAMETER OF THE CIRCULAR TIES SHALL BE $D + (2 \times \text{WALL THICKNESS}) + 8"$.
7. WHEN D_1 IS EQUAL TO OR LESS THAN D_2 , JOIN INVERTS AND WHEN D_1 IS GREATER THAN D_2 , JOIN SOFFITS.
8. PIPE MAY BE CORRUGATED METAL PIPE, CONCRETE PIPE, OR REINFORCED CONCRETE PIPE.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

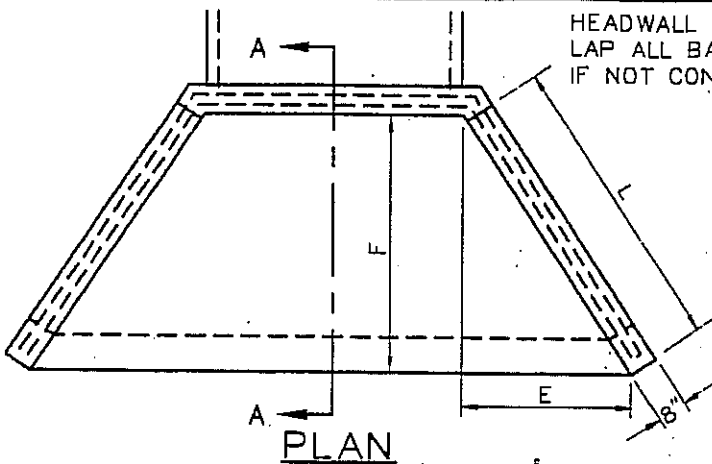
CONCRETE COLLAR
FOR PIPE 12 INCHES THROUGH
66 INCHES

STANDARD DRAWING NO. 431

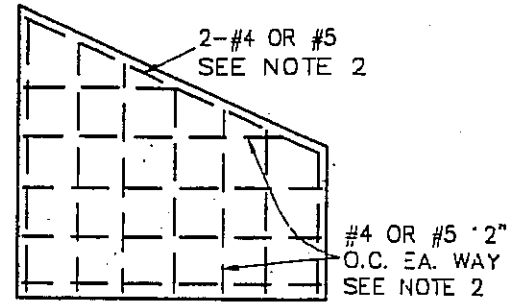
REVISION

BY DATE

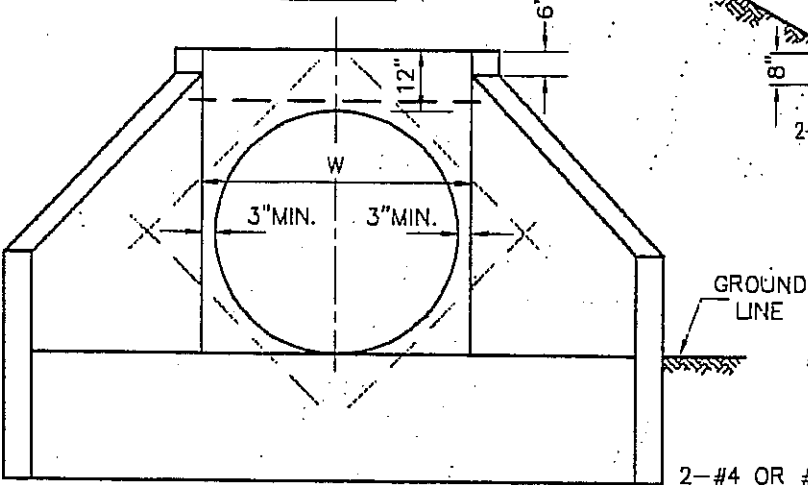
HEADWALL SHALL BE MONOLITHIC.
LAP ALL BARS AT CORNERS 30 DIAMETERS
IF NOT CONTINUOUS.



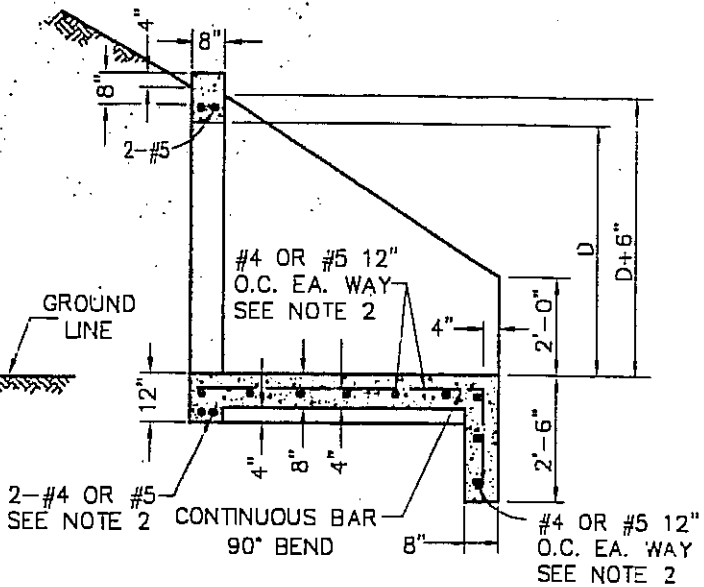
PLAN



REINFORCING DETAIL



ELEVATION

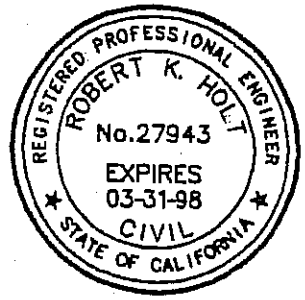


SECTION A-A

DIMENSIONS				
PIPE DIA.	L	E	F	W
24"	4'-9"	2'-8"	4'-0"	2'-6"
30"	5'-5"	3'-0"	4'-6"	3'-0"
36"	6'-0"	3'-4"	5'-0"	3'-8"
42"	6'-7"	3'-8"	5'-6"	4'-2"
48"	7'-3"	4'-0"	6'-0"	4'-10"
54"	8'-2"	4'-6"	6'-9"	5'-4"

NOTES:

1. HEADWALL SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
2. REINFORCING STEEL SHALL BE #4 BARS FOR "W" UP TO 60". ABOVE "W"=60" #5 BARS SHALL BE USED. 2" MINIMUM CLEARANCE, 30 DIAMETER LAP, ALL STEEL.
3. ADJACENT SLOPES SHALL BE 1-1/2 TO 1 OR FLATTER.
4. MULTIPLE PIPES TO BE SET WITH LONGITUDINAL CENTERS 1-2/3 DIAMETERS APART.
5. ALL EXPOSED CORNERS TO BE ROUNDED 3/4" RADIUS.
6. W SHALL BE INCREASED WHEN MULTIPLE PIPES OR PIPES ON SKEW ARE USED.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

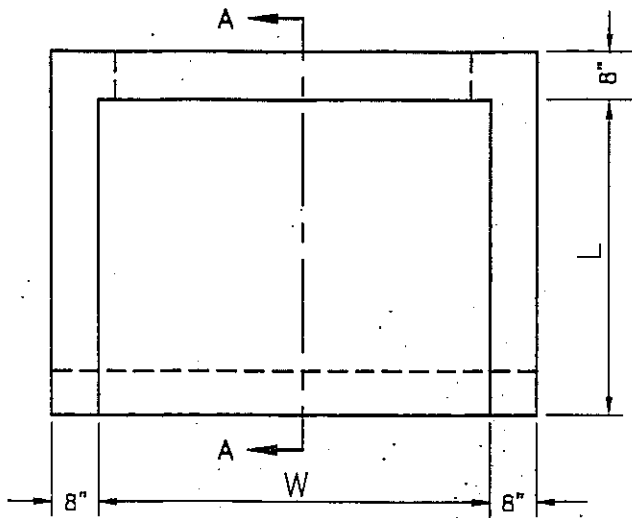
REVISION	BY	DATE



Town of
Yucca Valley

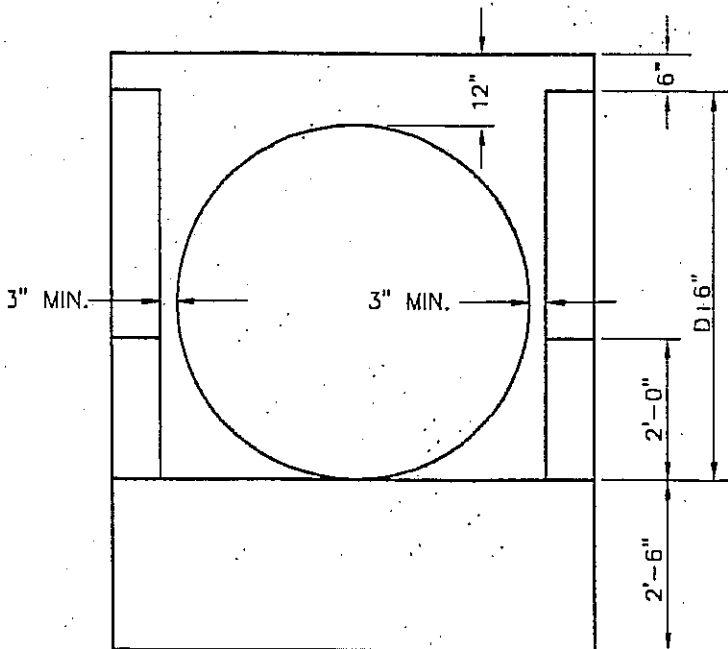
HEADWALL
WING - TYPE

STANDARD DRAWING NO. 440

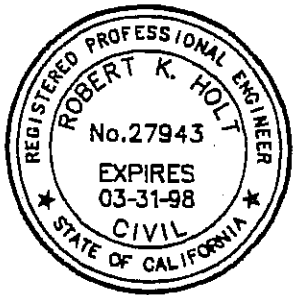


PLAN

DIMENSIONS		
PIPE DIA.	L	W
24"	4'-0"	2'-6"
30"	4'-6"	3'-0"
36"	5'-0"	3'-8"
42"	5'-6"	4'-2"
48"	6'-0"	4'-10"
54"	6'-9"	5'-4"



ELEVATION



NOTES:

1. REINFORCING STEEL IN WALLS AND BASE SHALL BE THE SAME AS STD. NO. 440.
2. NOTES SHALL BE THE SAME AS STD. NO. 440.
3. SECTION A-A IS THE SAME AS STD. NO. 440.

APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

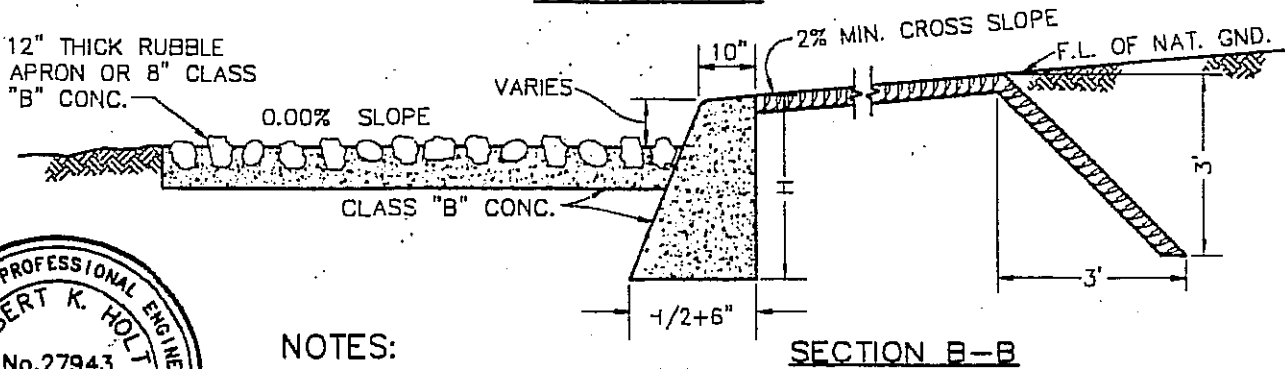
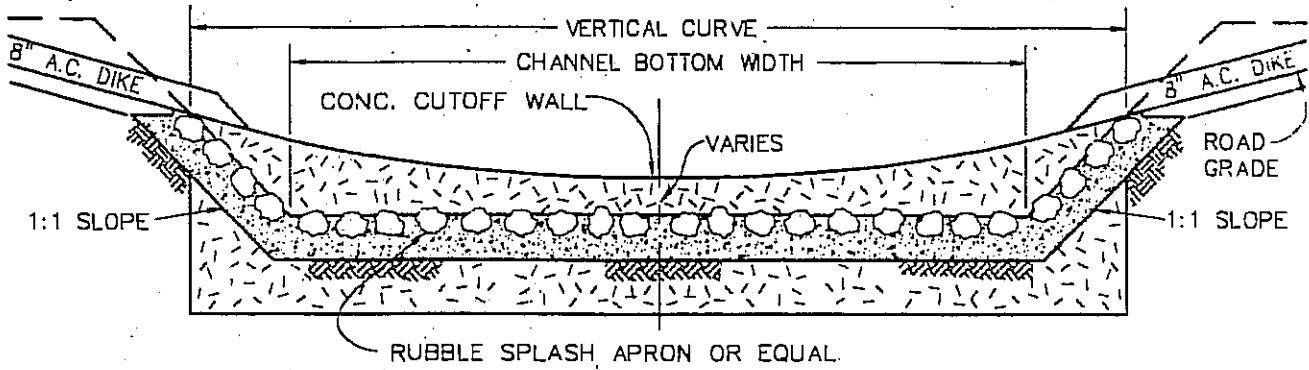
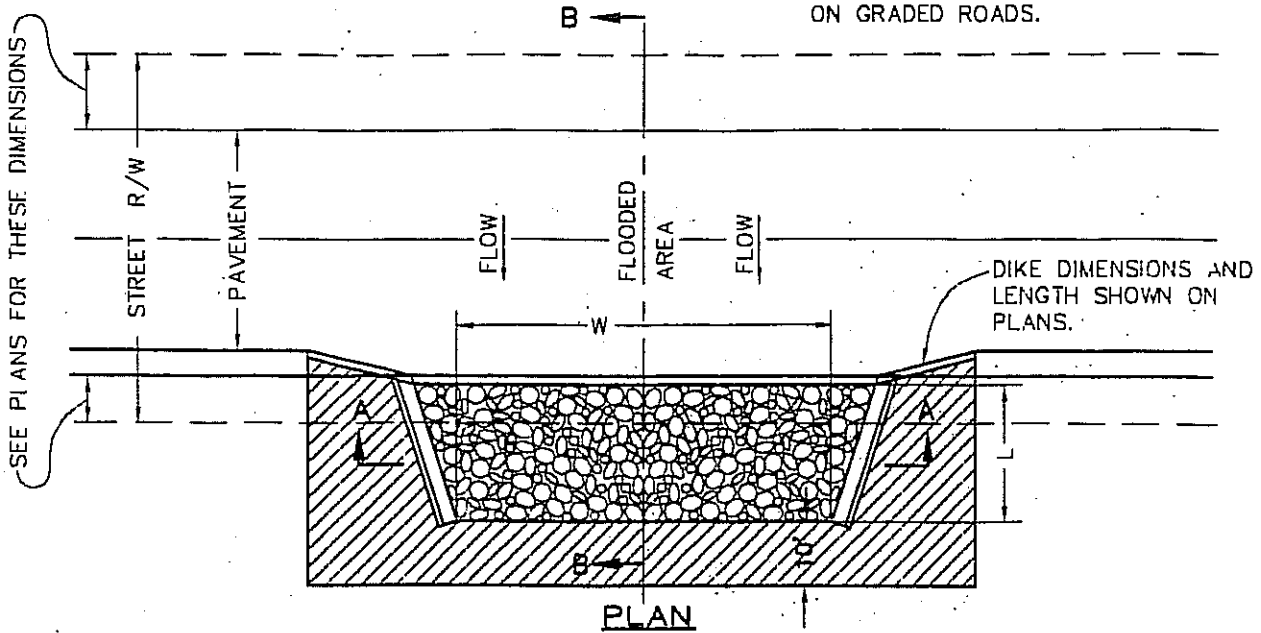
HEADWALL
"U" - TYPE

REVISION

BY DATE

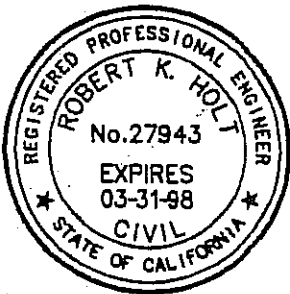
STANDARD DRAWING NO. 441

NOTE: 12" OF AGGREGATE BASE REQUIRED ON GRADED ROADS.



NOTES:

1. ALL CONCRETE TO BE CLASS "B".
2. L= SHOWN ON PLANS, H= 3' MIN., 6' MAX.
3. DRAINAGE EASEMENT REQUIRED.
4. AREA SHOWN THUS SHALL BE COMPACTED TO 90% RELATIVE DENSITY.
5. REINFORCED BLOCK WALL AND FOOTING PERMITTED.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



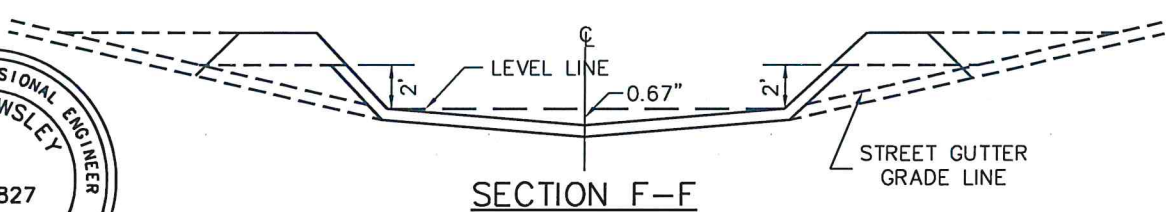
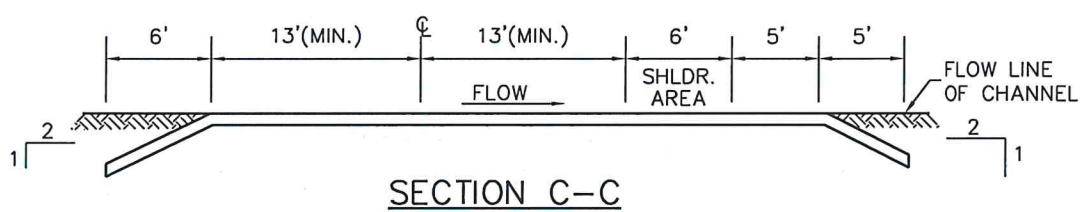
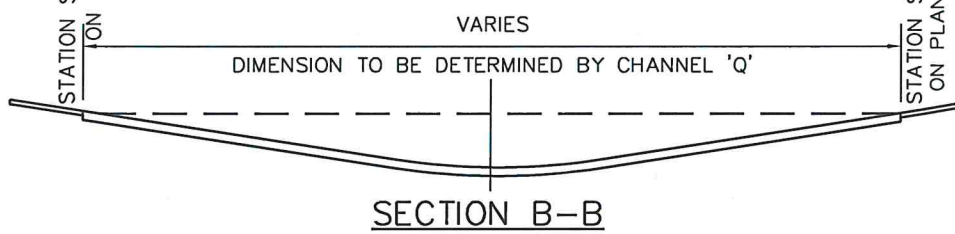
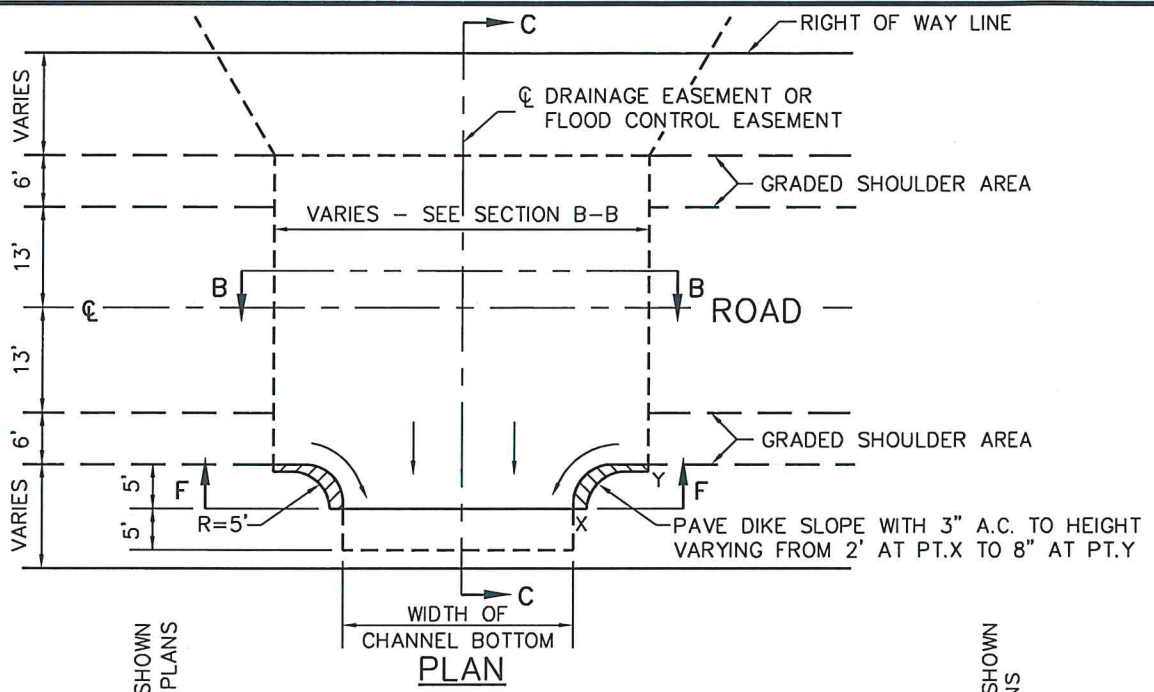
Town of
Yucca Valley

CUTOFF WALL FOR
DRAINAGE CHANNEL

REVISION

BY DATE

STANDARD DRAWING NO. 450



NOTE:
PAVEMENT SHALL BE CONSTRUCTED OF 4" MIN. THICK PG 70-10 ASPHALT CONCRETE.

APPROVED: DIRECTOR OF PUBLIC WORKS
Alex Quisita DATE *4/21/25*

APPROVED: TOWN ENGINEER
Noel Owsley R.C.E. 39827

REVISION	BY	DATE

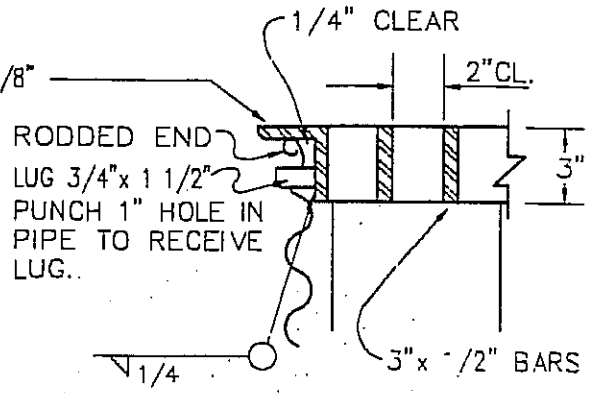
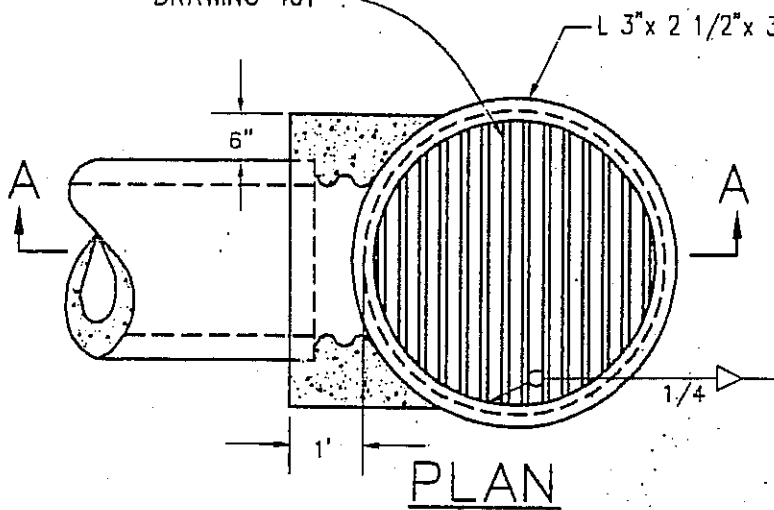


Town of
Yucca Valley

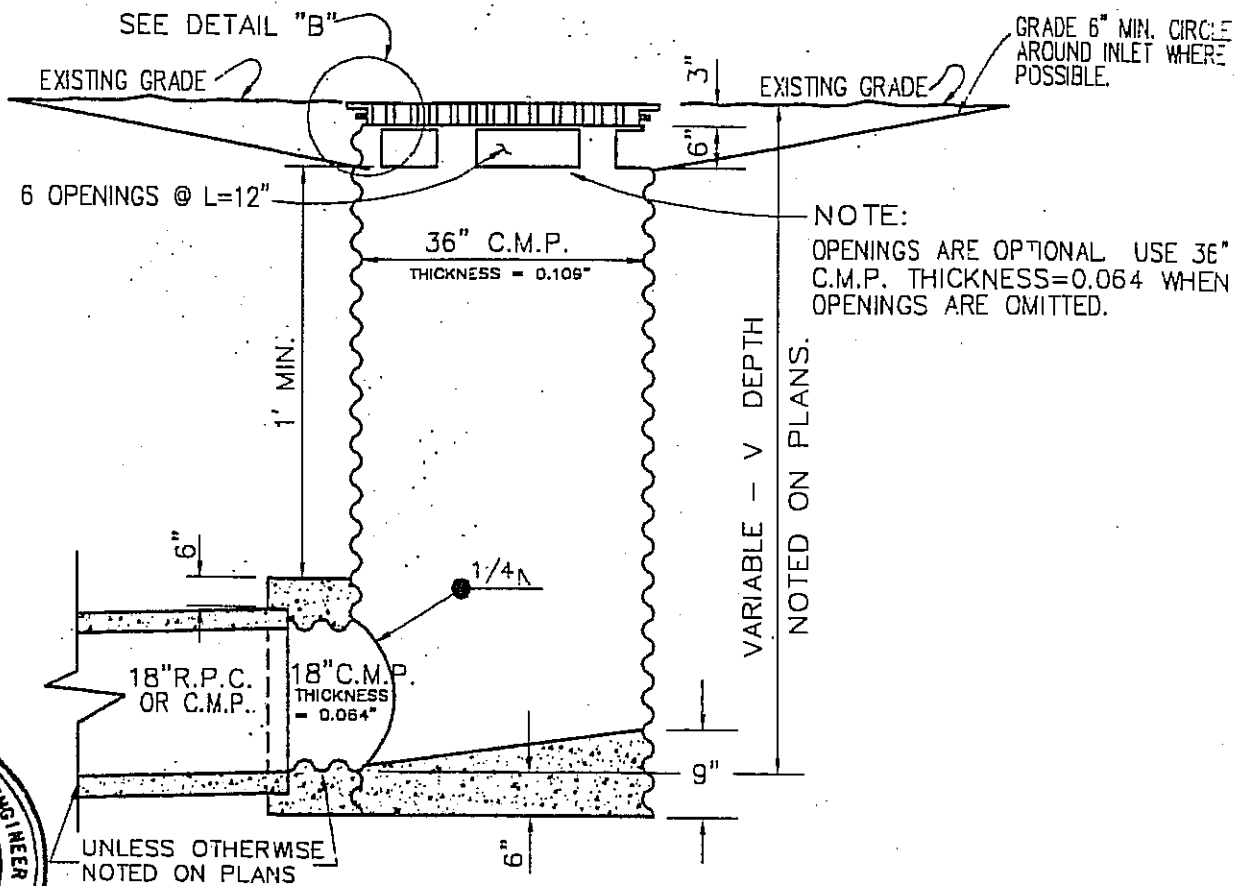
CHANNEL CROSSING

STANDARD DRAWING NO. 451

GRATE (OR CHECKERED P
 OPTIONAL) SEE STANDARD
 DRAWING 461



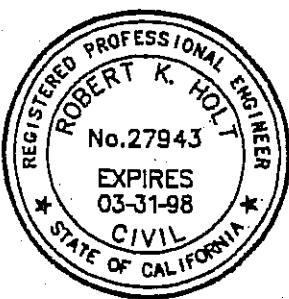
DETAIL "B"



SECTION A-A

NOTE:
 OPENINGS ARE OPTIONAL USE 36"
 C.M.P. THICKNESS=0.064 WHEN
 OPENINGS ARE OMITTED.

- NOTES:**
1. PLACE GRATE BARS PARALLEL TO FLOW.
 2. GRATE AND FRAME SHALL BE GALVANIZED.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

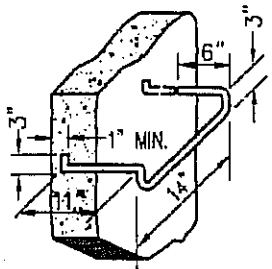
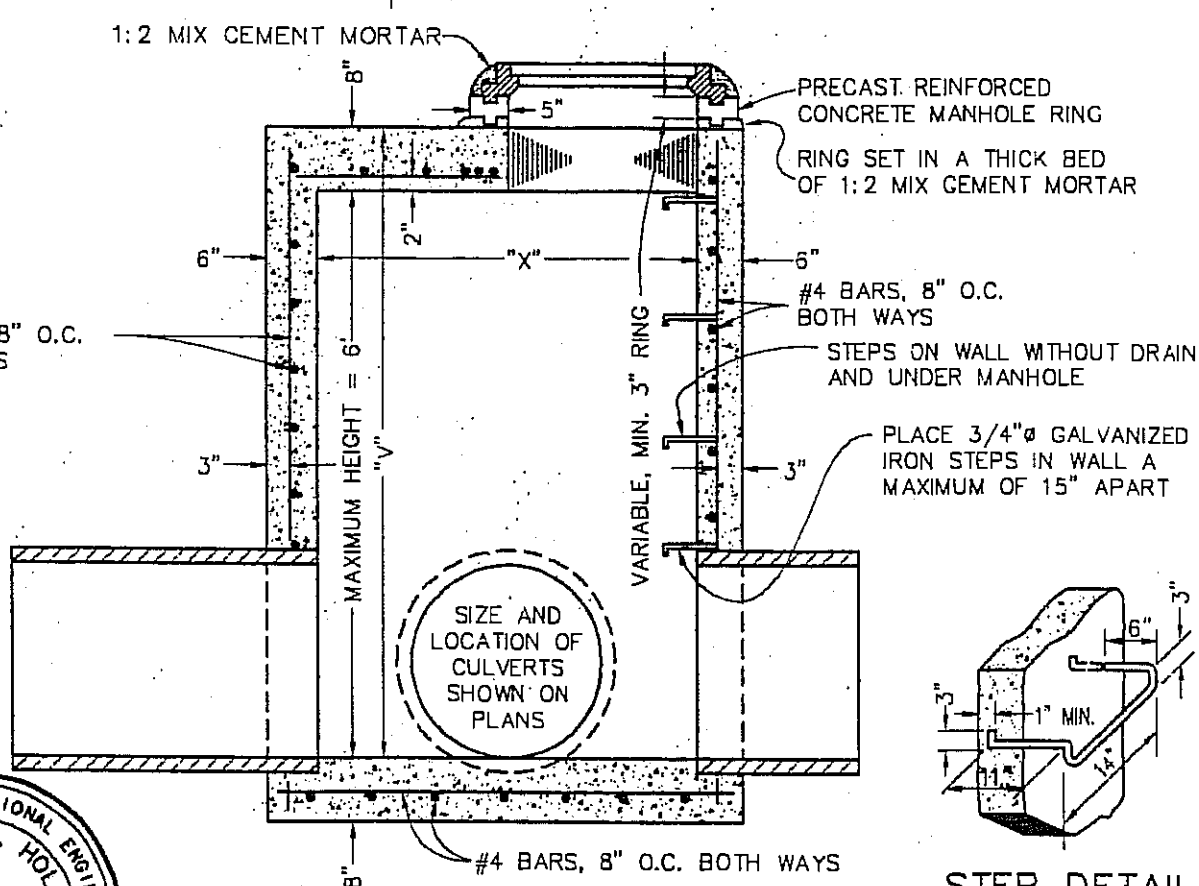
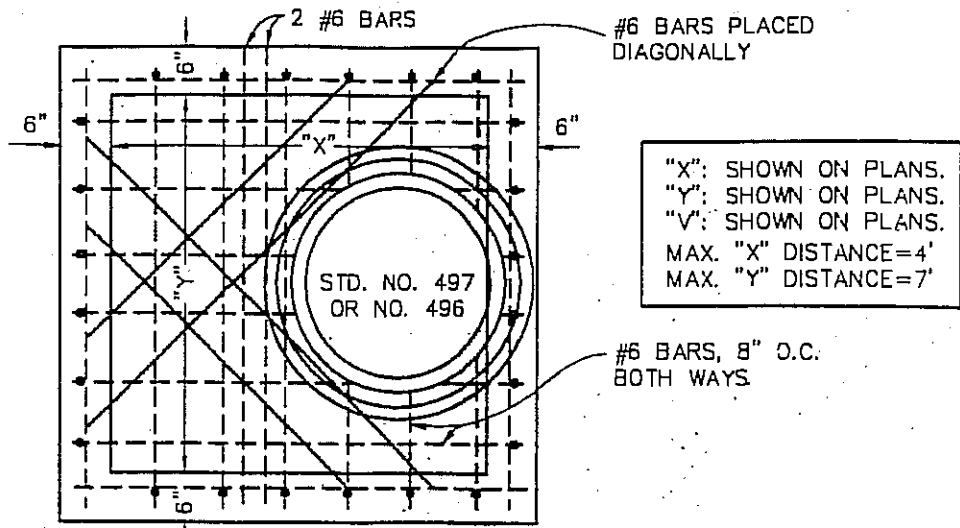


*Town of
 Yucca Valley*

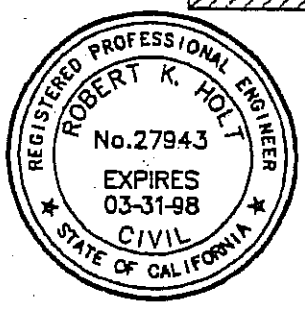
INLET TYPE X
 (GRATE DETAILS)

REVISION	BY	DATE

STANDARD DRAWING NO. 460



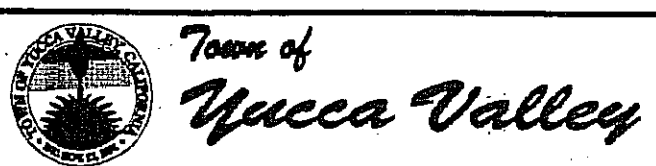
- NOTES:**
1. STORM DRAIN CLEANOUT SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
 2. CLEARANCE FROM I.D. OF PIPE TO CLEANOUT WALL SHALL BE 4" MIN.
 3. APPROVED PRECAST CONCRETE MANHOLE SHAFT RINGS WILL BE ACCEPTED IN LIEU OF CAST-IN-PLACE SHAFT.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE



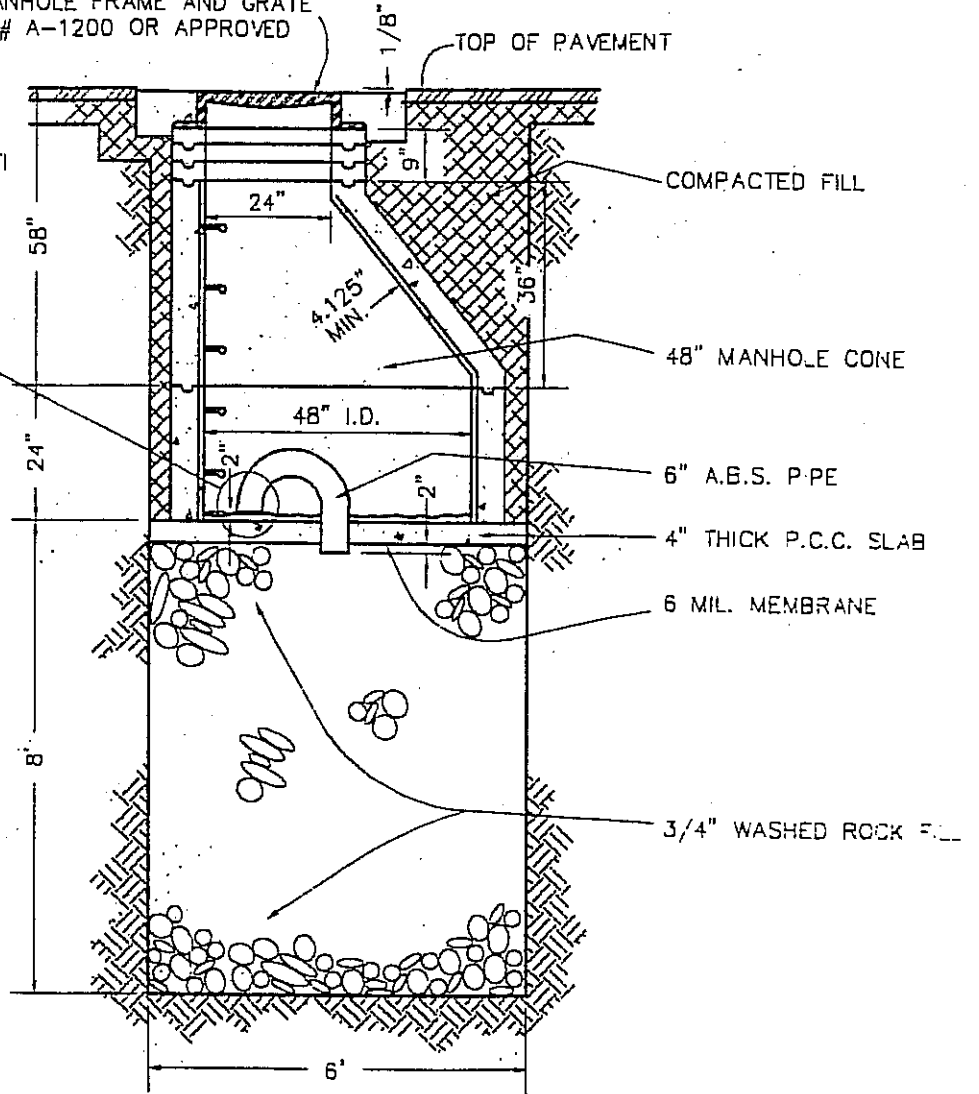
STORM DRAIN
 CLEANOUT

STANDARD DRAWING NO. 462

24" DIA. MANHOLE FRAME AND GRATE
ALHAMBRA # A-1200 OR APPROVED
EQUAL.

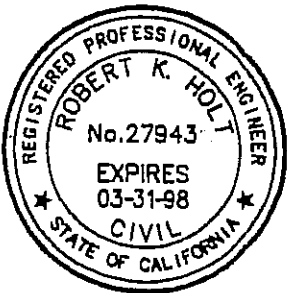
1" DIA. HOLE W/ MIRAFI
FABRIC BACKING
AS SHOWN

CAP DETAIL



NOTES:

1. PRECAST REINFORCED CONCRETE MANHOLE PIPE TO MEET REQUIREMENTS OF ASTM C 478 SPECIFICATIONS WITH INCREASES IN REINFORCEMENT AND WALL THICKNESS TO MEET LOCAL REQUIREMENTS. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4000 P.S.I. AT 28 DAYS.
2. DRYWELL DIMENSIONS AND LOCATION SHALL BE VERIFIED BY A LICENSED SOILS ENGINEER.
3. FINAL DESIGN IS SUBJECT TO APPROVAL BY THE TOWN ENGINEER.



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



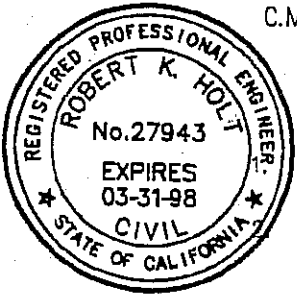
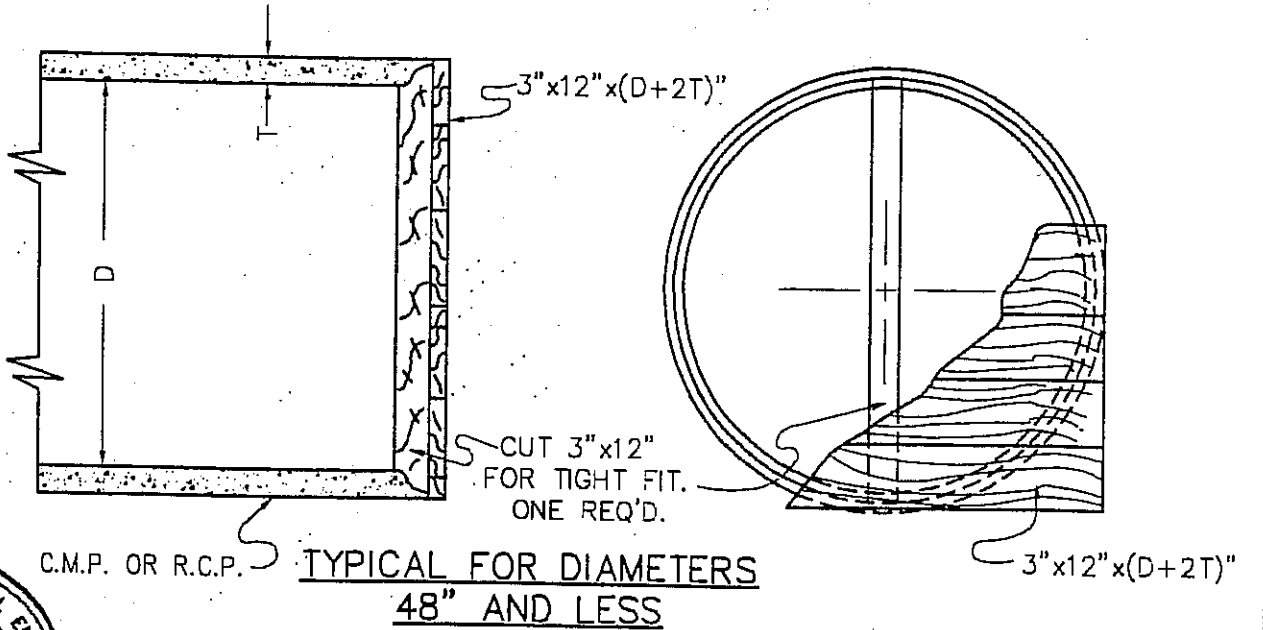
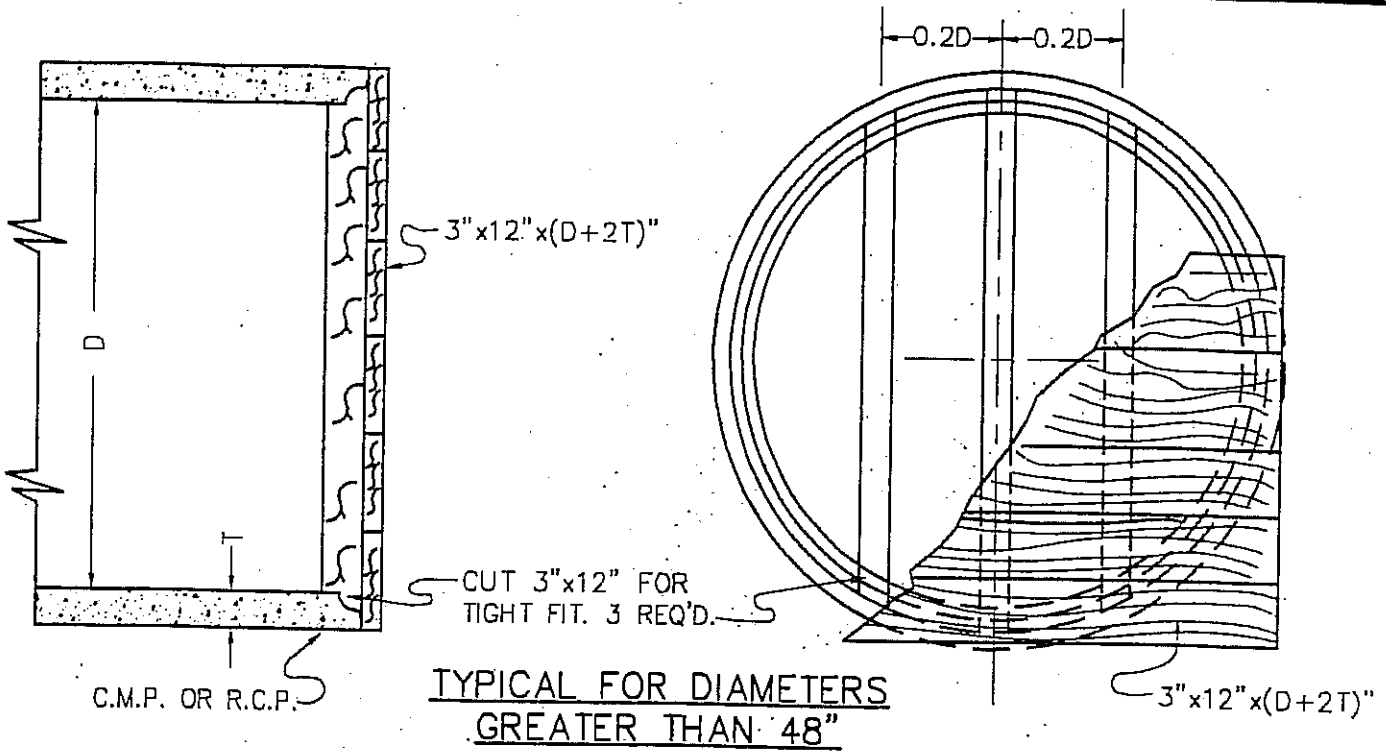
*Town of
Yucca Valley*

STANDARD DRY WELL

STANDARD DRAWING NO. 463

REVISION

BY DATE




NOTES:

1. NAIL 3"x12" TO VERTICAL SUPPORTS WITH 40d GALV. NAILS 3" O.C.
2. ALL LUMBER SHALL BE CREOSOTED DOUGLAS FIR, 1500 f CONSTRUCTION GRADE.

APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

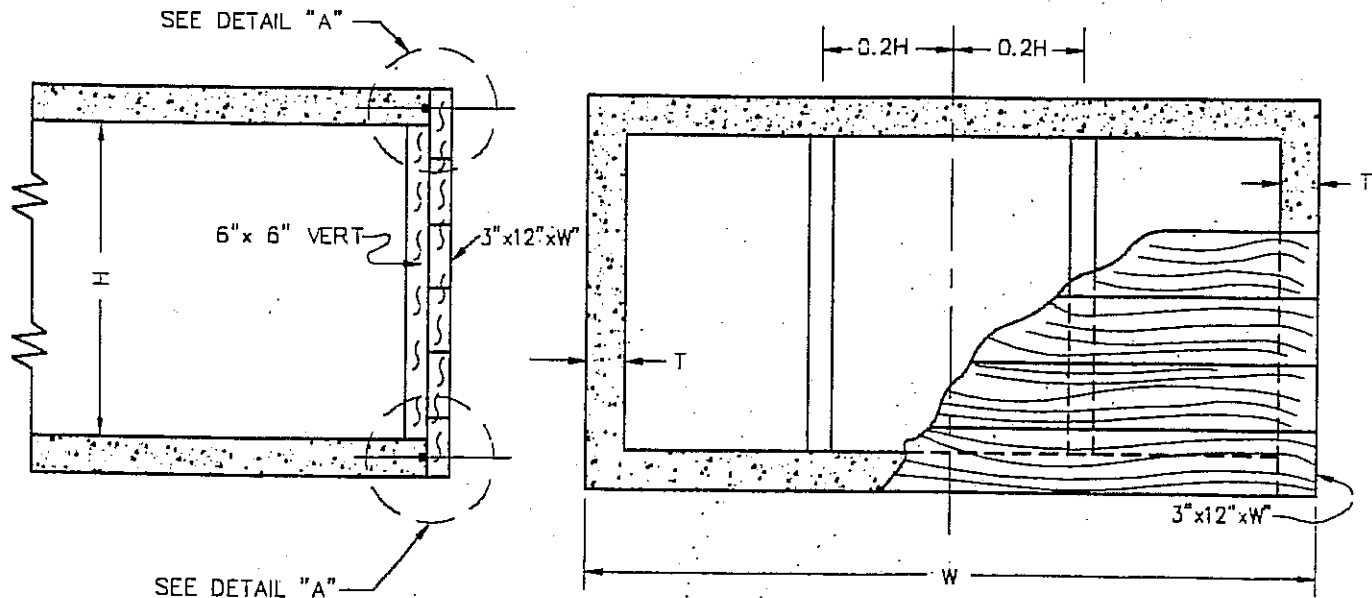
REVISION	BY	DATE



Town of
Yucca Valley

TIMBER BULKHEADS

STANDARD DRAWING NO. 464

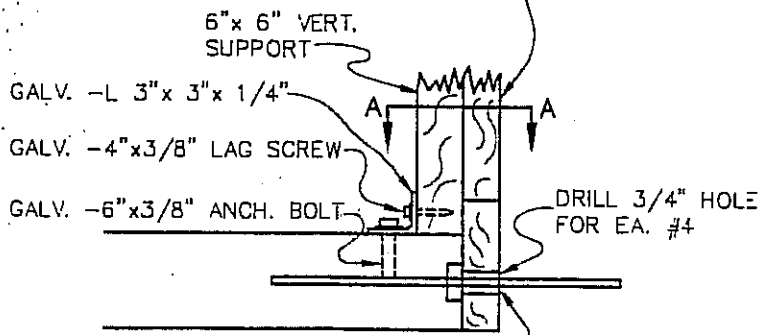
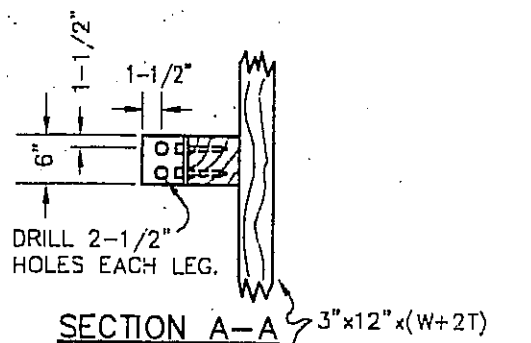


SEE DETAIL "A"

SEE DETAIL "A"

NOTES:

1. NAIL 3" x 12" TO VERTICAL SUPPORTS WITH 40d GALV. NAILS 3" C.C.
2. ALL LUMBER SHALL BE CREOSOTED DOUGLAS FIR, 1500 f CONSTRUCTION GRADE.



KEYED CONST. JOINT
 #4 @ 12"-3' LONG WITH
 EXPOSED ENDS HEAVILY
 GREASED.

DETAIL A



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

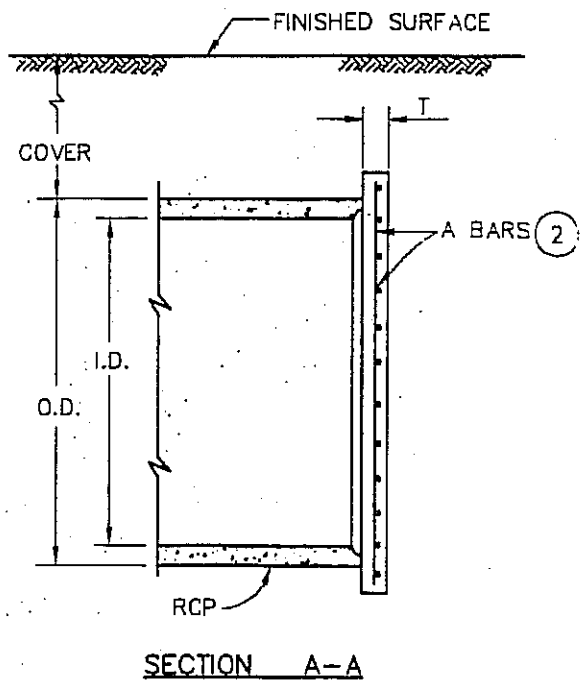
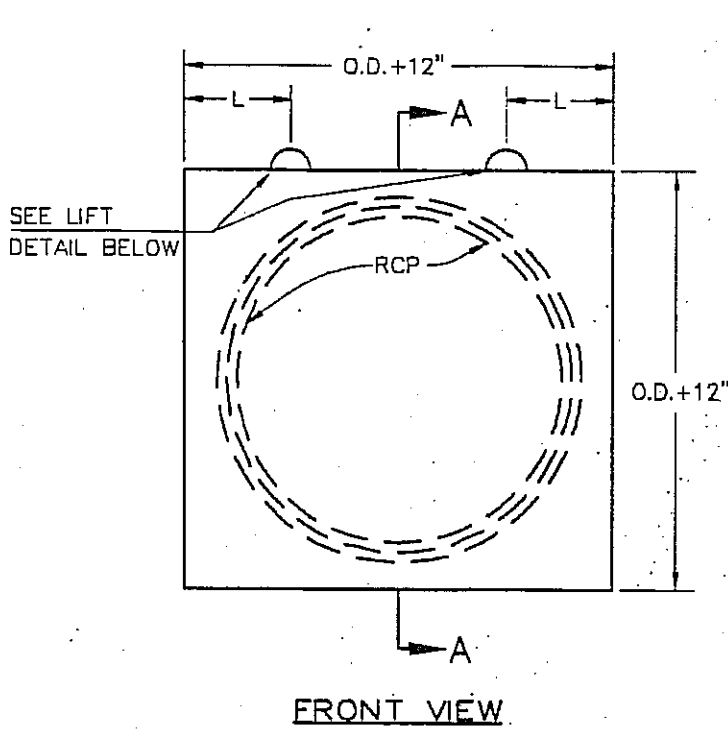


Town of
Yucca Valley

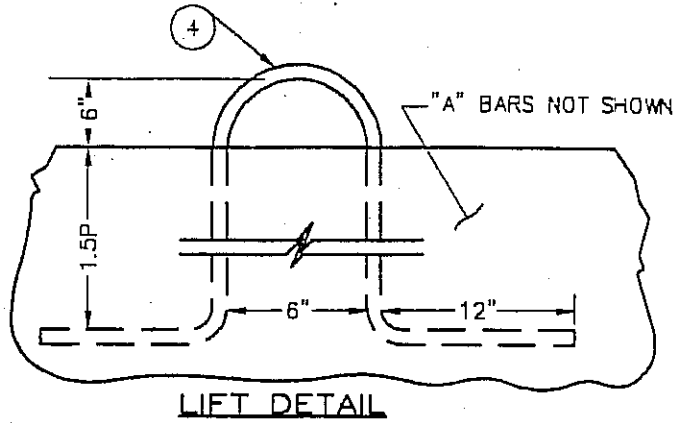
TIMBER BULKHEADS

STANDARD DRAWING NO. 465

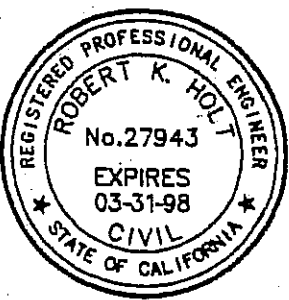
REVISION BY DATE



I.D. (IN.)	MAX COVER (FT.)	T (IN.)	A BARS	L.P.
48-51	5	4	4 @ 9	1'-6"
	10	4	4 @ 6	
	15	5	4 @ 6	
54-60	5	4	4 @ 6	1'-8"
	10	5	4 @ 6	
	15	5	5 @ 6	
63-66	5	5	4 @ 6	1'-10"
	10	5	5 @ 6	
	15	5	5 @ 6	
69-72	5	5	4 @ 6	2'-0"
	10	5	5 @ 6	
	15	5	6 @ 6	
75-78	5	5	5 @ 6	2'-2"
	10	5	6 @ 6	
	15	6	6 @ 6	
81-84	5	5	6 @ 6	2'-4"
	10	5	6 @ 6	
	15	6	6 @ 5	
87-9D	5	5	6 @ 6	2'-5"
	10	6	6 @ 6	
	15	6	6 @ 5	
93-96	5	5	6 @ 6	2'-7"
	10	6	6 @ 5	
	15	6	7 @ 6	




- NOTES:**
1. CONCRETE SHALL BE CLASS "B".
 2. REINFORCING STEEL SHALL BE CENTERED IN BULKHEAD WITH HORIZONTAL "A" BARS TOWARDS OUTSIDE FACE OF BULKHEAD.
 3. WHERE CONCRETE BULKHEAD IS USED WITH RCB, T & "A" BARS SHALL BE DETERMINED BY THE HEIGHT OF THE R.C.B.
 4. LIFTS SHALL BE WOVEN STEEL CABLE WITH SAME MIN. DIAMETER (d) AS "A" BARS. WEAVE CABLE THROUGH HORIZONTAL "A" BARS. COAT EXPOSED PORTION OF CABLE LIFTS WITH AN APPROVED BITUMINOUS PAINT PRIOR TO BACKFILLING TRENCH.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt
 R.C.E. 27943

REVISION	BY	DATE



Town of
Yucca Valley

CONCRETE BULKHEAD

STANDARD DRAWING NO. 466

PAVEMENT REMOVAL AND REPLACEMENT BEFORE REPAVING

A.C. PAVEMENT

BASE COURSE

NOTE: IF PAVEMENT REMOVAL IS NOT INCLUDED IN SPECIFICATION, THE CONTRACTOR SHALL REMOVE PAVEMENT SURFACE ELEVATIONS WILL BE ESTABLISHED BY FIELD SURVEY.

WELL GRADED SAND

PIPE BEDDING TO FIT VENTURE AND GRADE

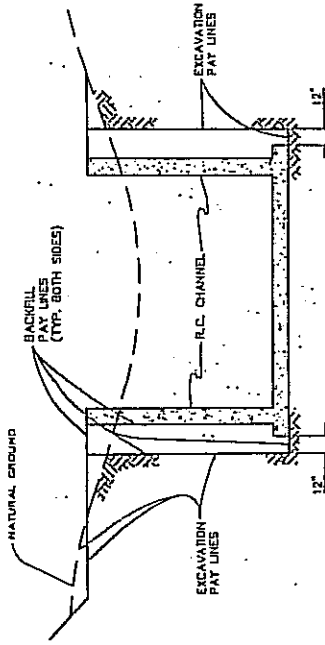
SEE R.C.P. BEDDING & PAY LINES, NORMAL CONDITION NOTES.

EXCAVATION PAY LINES

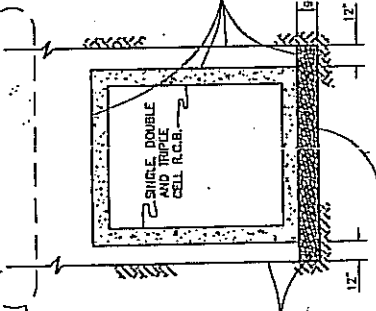
BACKFILL PAY LINES (TYP. BOTH SIDES)

EXCAVATION PAY LINES (TYP. BOTH SIDES)

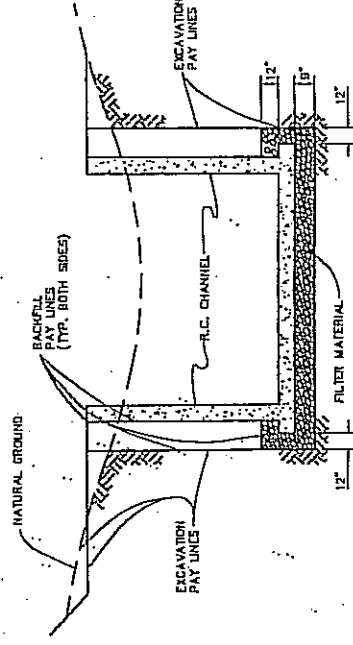
*** R.C.B. PAY LINES
NORMAL CONDITION**



*** R.C. CHANNEL PAY LINES
NORMAL CONDITION**



**R.C.B. PAY LINES
GROUNDWATER CONDITION**



**R.C. CHANNEL PAY LINES
GROUNDWATER CONDITION**

**R.C.P. BEDDING & PAY LINES
NORMAL CONDITION**

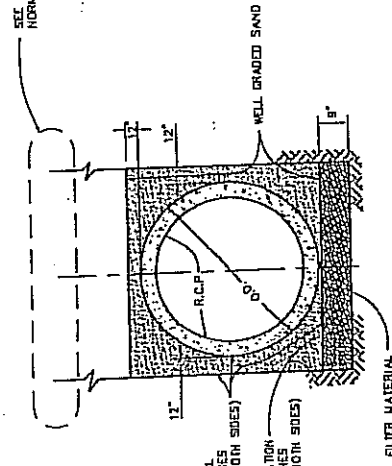
EXCAVATION PAY LINES

BACKFILL PAY LINES

R.C.P.

EXCAVATION PAY LINES (TYP. BOTH SIDES)

*** R.C.P. BEDDING & PAY LINES
NORMAL CONDITION**



**R.C.P. BEDDING & PAY LINES
GROUNDWATER CONDITION**

APPROVED:



APPROVED: TOWN ENGINEER
Robert K. Holt

R.C.E. 27943

DATE



Town of
Yucca Valley

BEDDING
AND
PAY LINES

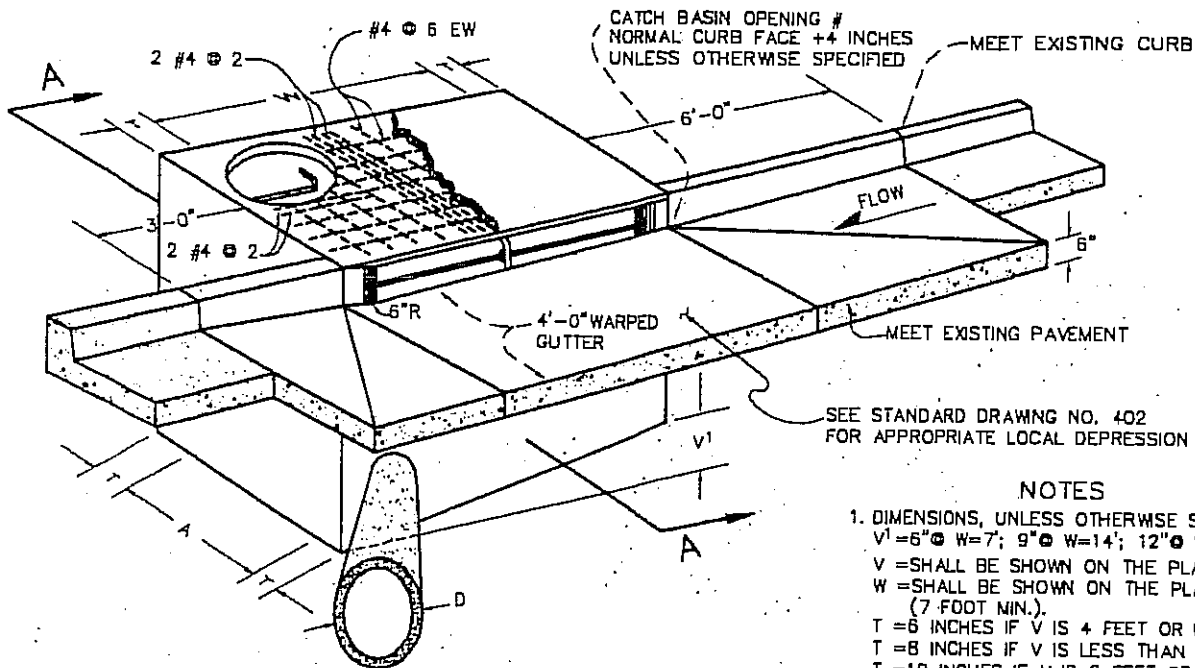
STANDARD DRAWING NO. 468

NOTE: THE NORMAL CONDITION, BEDDING & PAY LINES ARE TO BE USED UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR DIRECTED BY THE ENGINEER.

REVISION.

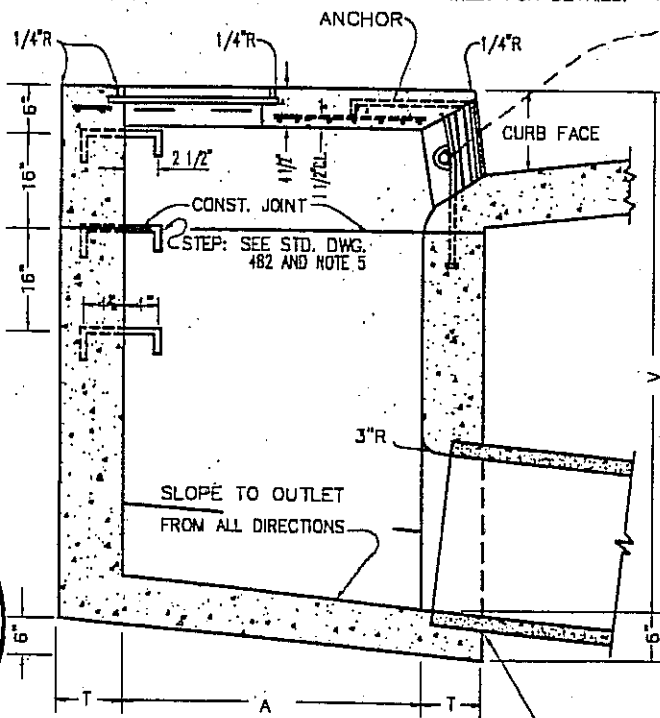
BY | DATE

SEE STANDARD DWG. 483
MANHOLE FRAME AND COVER FOR CATCH BASINS.



**PERSPECTIVE OF
CATCH BASIN NO. 1**

SEE STD. DWGS. 481 & 481A CATCH BASIN INLET FOR DETAILS.

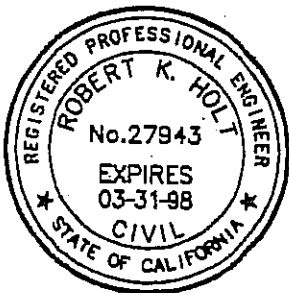


SECTION A-A

SEE STANDARD DRAWING NO. 402
FOR APPROPRIATE LOCAL DEPRESSION

NOTES

- DIMENSIONS, UNLESS OTHERWISE SPECIFIED:
V¹ = 6" @ W=7'; 9" @ W=14'; 12" @ W=21'
V = SHALL BE SHOWN ON THE PLANS
W = SHALL BE SHOWN ON THE PLANS
(7 FOOT MIN.).
T = 6 INCHES IF V IS 4 FEET OR LESS.
T = 8 INCHES IF V IS LESS THAN 8 FEET.
T = 10 INCHES IF V IS 8 FEET OR MORE.
D = 18 INCHES UNLESS OTHERWISE SPECIFIED.
A = 38 INCHES UNLESS OTHERWISE SPECIFIED.
- STRUCTURAL CONCRETE SHALL BE CLASS "A" P.C.C. (6 SACK).
- THE REINFORCING STEEL SHALL BE NUMBER 4 DEFORMED BARS. CLEARANCE SHALL BE 1 1/2 INCH FROM THE BOTTOM OF THE SLAB. SEE NOTE 7.
- THE SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM TO SLOPE, GRADE, COLOR, FINISH AND SCORING IN THE EXISTING OR PROPOSED CURB AND WALK ADJACENT TO THE BASIN. THE BASIN FLOOR SHALL BE GIVEN A TIGHT WOOD FLOAT FINISH. CURVATURE OF THE LIP AND SIDEWALKS AT THE GUTTER OPENING SHALL NOT BE MADE BY PLASTERING. THE OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE THE CONCRETE IS POURED.
- STEPS:
3/4 INCH PLAIN ROUND GALVANIZED STEEL STEPS SHALL BE INSTALLED 16 INCHES APART WHEN V EXCEEDS 4 FEET 6 INCHES. THE TOP STEP SHALL BE 6 INCHES BELOW THE TOP SURFACE AND SHALL BE 2 1/2 INCHES CLEAR FROM THE WALL. ALL OTHER STEP SHALL BE 4 INCHES CLEAR FROM THE WALL. ONLY ONE STEP 12 INCHES FROM THE BOTTOM SHALL BE INSTALLED IF V IS 4 FEET 6 INCHES OR LESS. ALL STEPS SHALL BE ANCHORED NOT LESS THAN 4 INCHES INTO THE WALL OF THE BASIN.
- CURB, GUTTER AND LOCAL DEPRESSIONS SHALL BE CLASS "B" CONCRETE.
- SEE STANDARD DRAWING 473 FOR WALL & FLOOR STEEL REINFORCING.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

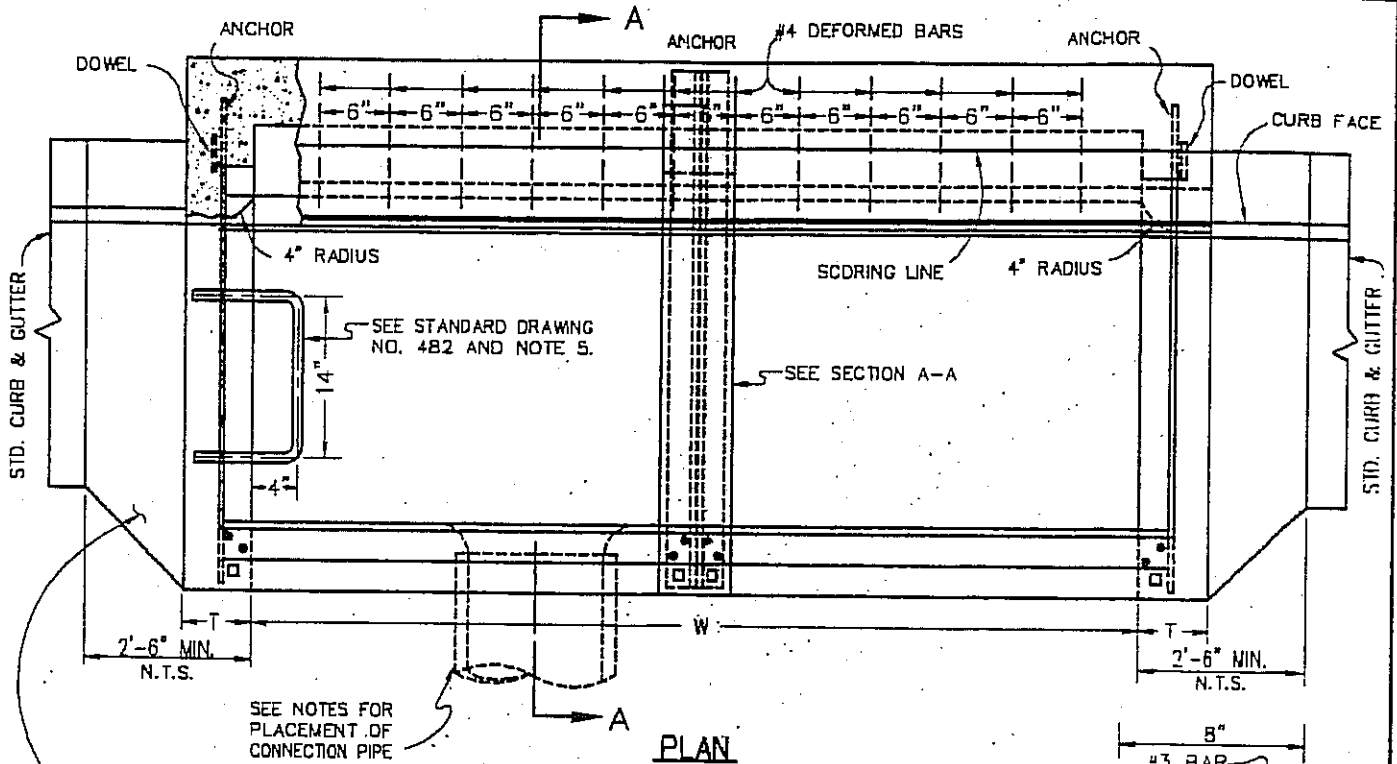


*Town of
Yucca Valley*

CATCH BASIN
NO. 1

REVISION _____ BY _____ DATE _____

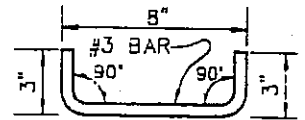
STANDARD DRAWING NO. 470



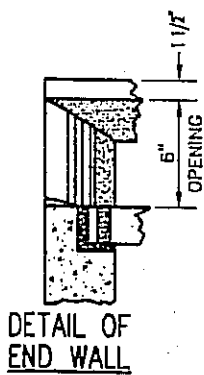
SEE STANDARD DRAWING NO. 403
NOTE 1(a) FOR APPROPRIATE LOCAL
DEPRESSION.

SEE NOTES FOR
PLACEMENT OF
CONNECTION PIPE

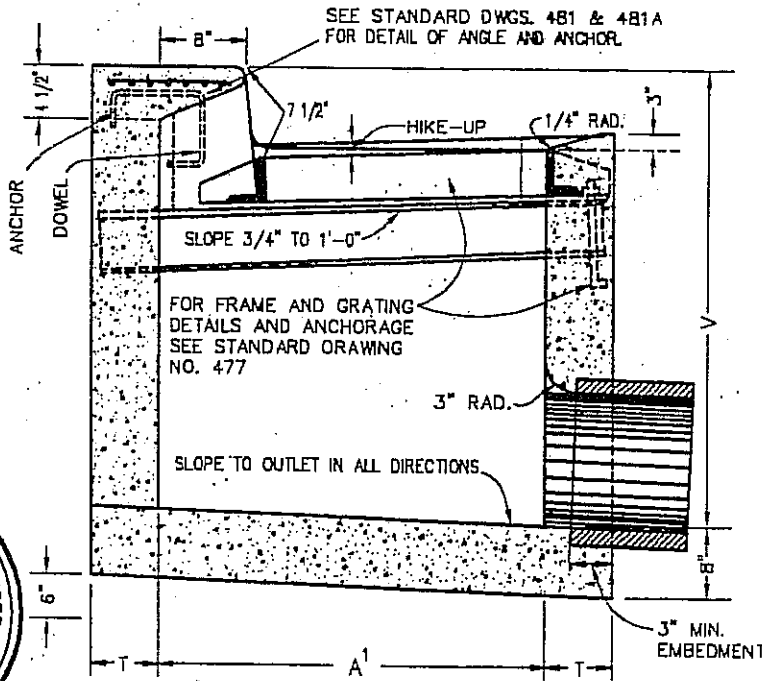
PLAN



DETAIL OF DOWEL



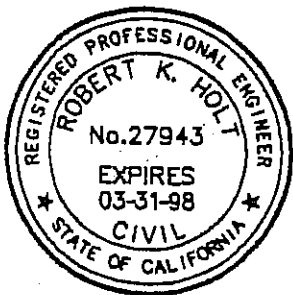
DETAIL OF
END WALL



SECTION-AA

STEEL LIST					
NO. OF GRATINGS	#4 DEF. BARS 11" LONG	5/16" x 10" FACE PLATE	DOWELS	ANCHORS	3/4" GALV. STEEL STEPS
1	5	5-11 1/2"	2	2	SEE NOTES
2	12	7-4 3/4"	2	3	
3	19	10-10 1/2"	2	4	

A'	GRATE TYPE
34"	R.C.F.C. STD. CB104
32"	CALTRANS STD. D77-B



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

CATCH BASIN
NO. 4

SHT. 1 OF 2

STANDARD DRAWING NO. 471

REVISION

BY DATE

NOTES FOR CATCH BASIN NO. 4

1. DIMENSIONS: UNLESS OTHERWISE SPECIFIED.

V = 3.5 FEET.

T = 6 INCHES, IF V IS 4 FEET OR LESS.

T = 8 INCHES, IF V IS BETWEEN 4 FEET AND 8 FEET.

T = 10 INCHES, IF V IS 8 FEET OR OVER.

W = 2 FEET, 11-3/8 INCHES FOR ONE GRATING.

ADD 3 FEET, 5-3/8 INCHES FOR EACH ADDITIONAL GRATING.

HIKE-UP SHALL BE PARALLEL TO PLANE OF GUTTER - SLOPE 3/4 INCH TO 1 FOOT.

SLOPE OF FLOOR PARALLEL WITH CURB SHALL BE 1 IN 12.

S = 1-1/2 INCHES.

R = 3/4 INCH.

2. CONCRETE SHALL BE CLASS "A" PORTLAND CEMENT CONCRETE (6.0 SACK)

3. THE REINFORCING STEEL SHALL BE NUMBER 4 DEFORMED BARS. CLEARANCE SHALL BE 1-1/2 INCHES FROM TOP SLAB. SEE STD. DWG. 473 AND NOTE 3.

4. THE SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM TO SLOPE, GRADE, COLOR, FINISH, AND SCORING IN THE EXISTING OR PROPOSED CURB AND WALK ADJACENT TO THE BASIN. THE BASIN FLOOR SHALL BE GIVEN A TIGHT WOOD FLOAT FINISH. CURVATURE OF THE LIP AND SIDEWALLS AT THE GUTTER OPENING SHALL NOT BE MADE BY PLASTERING. THE OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE THE CONCRETE IS POURED.

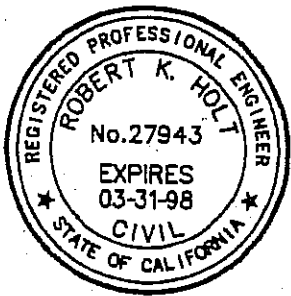
5. STEPS: 3/4 INCH PLAIN ROUND GALVANIZED STEEL STEPS ARE REQUIRED AS FOLLOWS:

IF V IS 4.5 FEET OR LESS, NO STEPS ARE REQUIRED.

IF V IS MORE THAN 4.5 FEET, AND NOT MORE THAN 5.0 FEET, INSTALL ONE STEP 12 INCHES ABOVE FLOOR OF BASIN.

IF V IS MORE THAN 5.0 FEET, INSTALL STEPS 16 INCHES APART WITH THE TOP STEP 6 INCHES BELOW THE TOP OF GRATING.

ALL STEPS SHALL BE 4 INCHES CLEAR FROM THE WALL AND ANCHORED NOT LESS THAN 4 INCHES INTO THE WALL OF THE BASIN.



APPROVED:

DATE

APPROVED: TOWN ENGINEER

R.C.E. 27943



Town of
Yucca Valley

CATCH BASIN

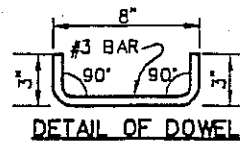
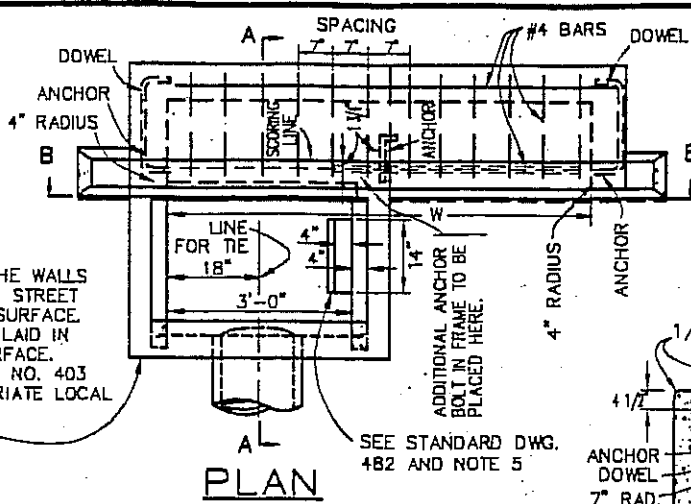
NO. 4

SHT. 2 OF 2

REVISION

BY DATE

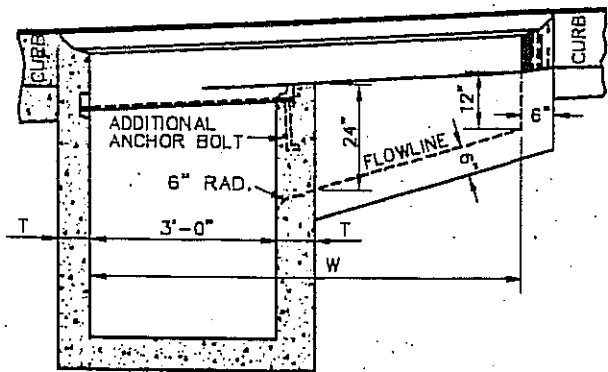
STANDARD DRAWING NO. 471A



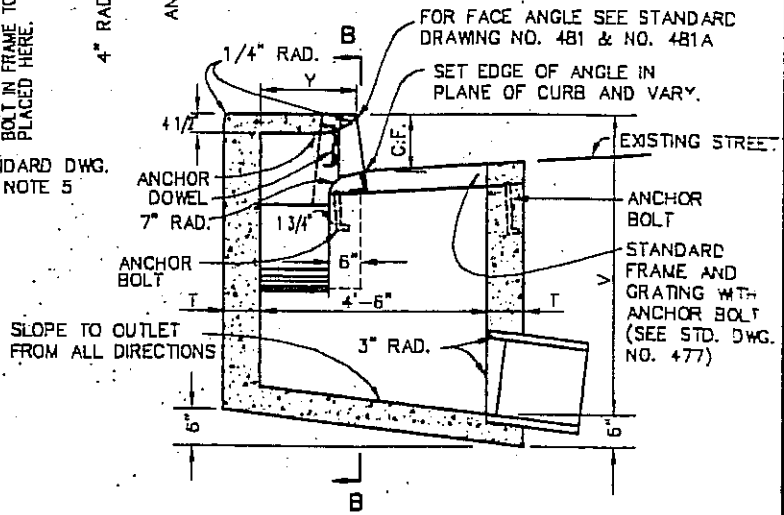
THE OUTER EDGES OF THE WALLS SHALL CONFORM TO THE STREET OR LOCAL DEPRESSION SURFACE. THE GRATING SHALL BE LAID IN THE PLANE OF THIS SURFACE. SEE STANDARD DRAWING NO. 403 NOTE 1(b) FOR APPROPRIATE LOCAL DEPRESSION.

SEE STANDARD DWG. 482 AND NOTE 5

PLAN



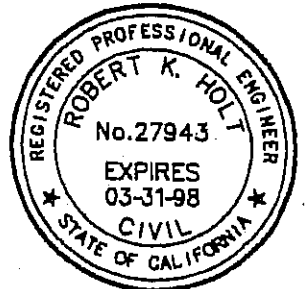
SECTION B-B



SECTION A-A

NOTES:

- DIMENSIONS: UNLESS OTHERWISE SPECIFIED, $V = 4.5$ FEET. $W = 7.0$ FEET.
 $T = 6$ INCHES IF V IS 5 FEET OR LESS. $T = 8$ INCHES IF V IS BETWEEN 5 FT. & 8 FEET.
 $T = 10$ INCHES IF V IS 8 FEET OR MORE. $Y = 2$ FEET 3 INCHES.
- CONCRETE SHALL BE CLASS "A" PORTLAND CEMENT CONCRETE (6.0 SACK).
- THE REINFORCING STEEL SHALL BE NUMBER 4 DEFORMED BARS. CLEARANCE SHALL BE $1 \frac{1}{2}$ " FROM THE BOTTOM OF THE SLAB. SEE STANDARD DRAWING 473 - NOTE 3.
- THE SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM TO THE SLOPE, GRADE, COLOR, FINISH, AND SCORING IN THE EXISTING OR PROPOSED CURB AND WALK ADJACENT TO THE BASIN. THE BASIN FLOOR SHALL BE GIVEN A TIGHT WOOD FLOAT FINISH. CURVATURE OF THE LIP AND SIDE WALLS AT THE GUTTER OPENING SHALL NOT BE MADE BY PLASTERING. THE OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE THE CONCRETE IS POURED.
- STEPS: $\frac{3}{4}$ INCH PLAIN ROUND GALVANIZED STEEL STEPS SHALL BE INSTALLED 16 INCHES APART WHEN V EXCEEDS 4 FEET 6 INCHES. THE TOP STEP SHALL BE 6 INCHES BELOW THE TOP SURFACE AND SHALL BE 2 $\frac{1}{2}$ INCHES CLEAR FROM THE WALL. ALL OTHER STEPS SHALL BE 4 INCHES CLEAR FROM THE WALL. ONLY ONE STEP 12 INCHES FROM THE BOTTOM SHALL BE INSTALLED IF V IS 4 FEET 6 INCHES OR LESS. ALL STEPS SHALL BE ANCHORED NOT LESS THAN 4 INCHES INTO THE WALL OF THE BASIN.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943



Town of
Yucca Valley

CATCH BASIN NO. 6

STANDARD DRAWING NO. 472

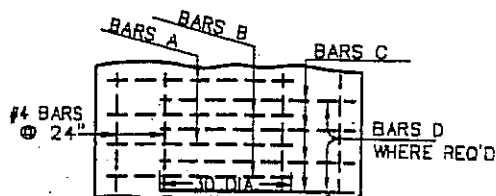
REVISION	BY	DATE

NOTES

1. WALL & FLOORING REINFORCING SHOWN HEREON SHALL BE USED WITH CATCH BASIN STANDARD DRAWINGS.
2. REINFORCING STEEL SHOWN HEREON SHALL BE USED IN ALL CATCH BASINS ON STATE HIGHWAYS REGARDLESS OF BASIN LENGTH OR DEPTH.
3. PROVIDE WALL & FLOOR STEEL REINFORCING WHEN THE FOLLOWING "V" DEPTHS ARE EQUALED OR EXCEEDED:

BASIN LENGTH=W	BASIN DEPTH=V
TO 7.0'	10'
7' TO 14.0'	7'
14' TO 21.0'	6'
OVER 21.0'	ALL DEPTHS

REINFORCING STEEL SHOWN HEREON SHALL BE USED IN ALL CATCH BASINS WHEN EXCAVATION OR SOIL CONDITIONS REQUIRE BOTH SIDES OF THE WALLS TO BE FORMED REGARDLESS OF BASIN LENGTH OR DEPTH.

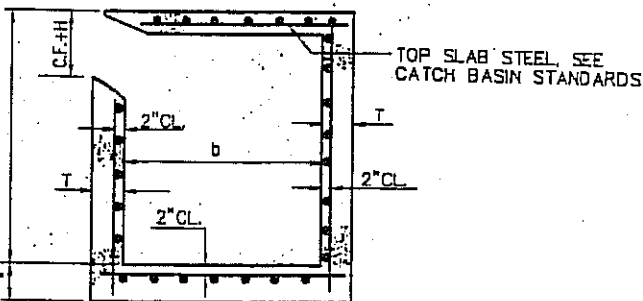


FLOOR REINFORCEMENT SECTION 2

W OF C.B.	V (FT.)		T (IN)	FRONT WALL STEEL		REAR & END WALLS & FLOOR STEEL
	FROM	TO (INCL)		HOR.	VERT.	EACH WAY
TD 7'		4	6	#3 @ 6"	#3 @ 6"	# 3 @ 6"
TD 7'	4	8	8	#4 @ 12"	#4 @ 12"	# 4 @ 12"
TD 7'	8	12	10	#4 @ 10"	#4 @ 10"	# 4 @ 10"
14'		4	6	#3 @ 6"	#3 @ 6"	# 3 @ 6"
14'	4	8	8	#4 @ 12"	#4 @ 12"	# 4 @ 12"
14'	8	10	10	#4 @ 8"	#4 @ 12"	# 4 @ 10"
14'	10	12	10	#4 @ 6"	#4 @ 12"	# 4 @ 10"

WALL AND FLOOR STEEL

CATCH BASIN REINFORCEMENT--"W" TO 14'(INCL.)

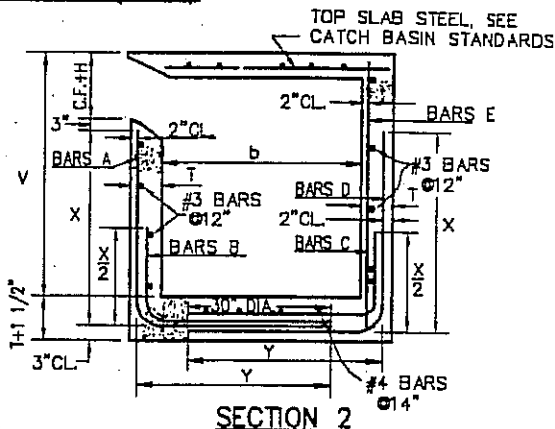


SECTION 1

V (FT.)	T (IN)		FRONT WALL STEEL	REAR WALL STEEL	END WALL STEEL
	FROM	TO (INCL)	BAR A & B	BARS C BARS D BARS E	HOR. & VERT.
4	4	6	# 3 @ 24"	#3 @ 12"	----- #4 @ 24" #3 @ 18"
4	5	8	# 3 @ 20"	#3 @ 12"	----- #4 @ 24" #3 @ 14"
5	6	8	# 3 @ 12"	#3 @ 10 1/2"	----- #4 @ 24" #3 @ 14"
6	7	8	# 4 @ 17"	#3 @ 8 1/2"	----- #4 @ 24" #3 @ 14"
7	8	8	# 4 @ 13"	#3 @ 6 1/2"	----- #4 @ 24" #3 @ 14"
8	9	10	# 4 @ 15"	#3 @ 7 1/2"	----- #4 @ 20" #3 @ 11"
9	10	10	# 4 @ 12"	#4 @ 12"	----- #4 @ 20" #3 @ 11"
10	11	10	# 5 @ 15"	----- #4 @ 11" #4 @ 18" #3 @ 11"	
11	12	10	# 6 @ 18"	----- #4 @ 9" #4 @ 13" #3 @ 11"	
X=(V+T)-(C.F.+H+4 1/2")			Y= (X-21)+15 DIA.-2"		

WALL AND FLOOR STEEL

CATCH BASIN REINFORCEMENT--"W" GREATER THAN 14'

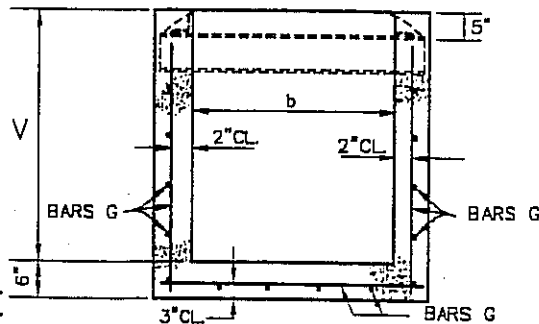


SECTION 2



V (FT.)	T (IN)		SIDE & END WALL STEEL
	FROM	TO (INCL)	BARS G
4	4	6	# 3 @ 6"
4	8	8	# 4 @ 6"
8	8	12	# 5 @ 6"

GRATING BASIN REINFORCEMENT



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



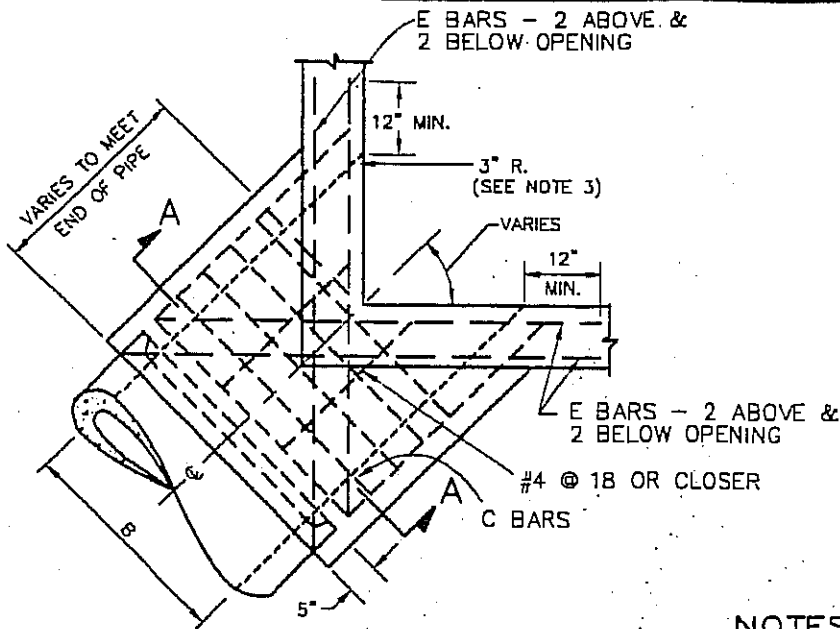
Town of
Yucca Valley

CATCH BASIN
REINFORCEMENT

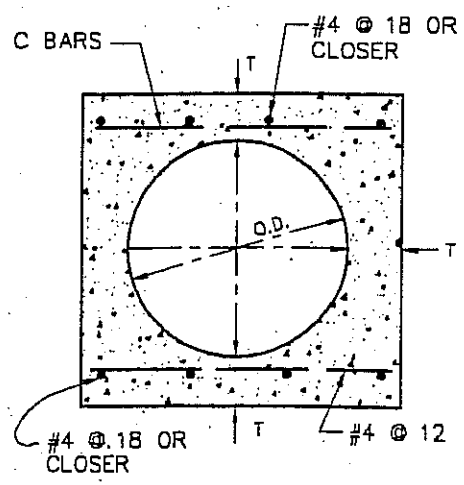
REVISION

BY DATE

STANDARD DRAWING NO. 473



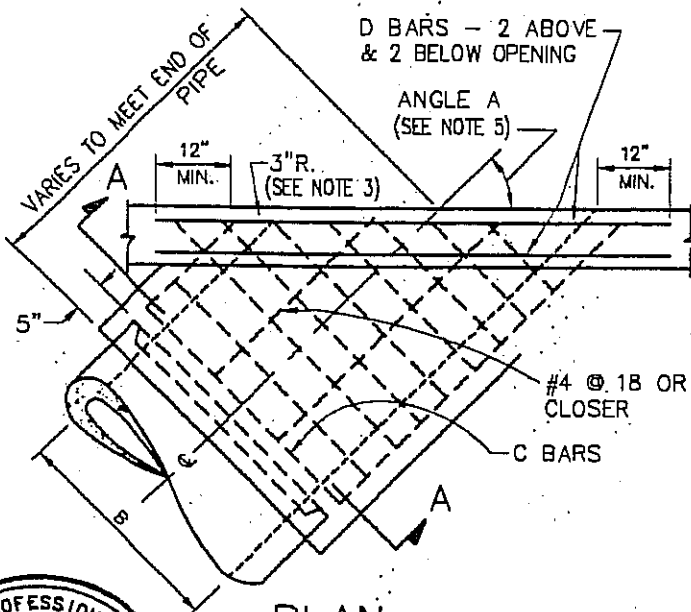
**PLAN
CORNER CONNECTION**



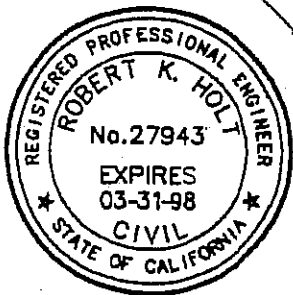
SECTION A-A

NOTES:

1. REINFORCING STEEL SHALL BE 1 1/2" CLEAR FROM INSIDE FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. REINFORCING STEEL FOR INSIDE FACE OF CATCH BASIN WALL SHALL BE CUT AT CENTER OF OPENING AND BENT INTO WALLS OF MONOLITHIC CONNECTION. REINFORCING STEEL FOR OUTSIDE FACE OF CATCH BASIN WALL SHALL BE CUT 2" CLEAR OF OPENING.
3. CONNECTION SHALL BE POURED MONOLITHIC WITH CATCH BASIN. THE ROUNDED EDGE OF OUTLET SHALL BE CONSTRUCTED BY POURING CONCRETE AGAINST A CURVED FORM WITH A RADIUS OF 3".
4. FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO SPRING LINE.
5. CONNECTIONS SHALL BE CONSTRUCTED WHERE (A.) PIPES, 12 INCHES THROUGH 72 INCHES IN DIAMETER, INLET OR OUTLET THROUGH CORNER OF CATCH BASIN AT AN ANGLE LESS THAN 40° (B.) ANGLE A, FOR PIPES 24 INCHES THROUGH 30 INCHES IN DIAMETER, IS LESS THAN 45°.



**PLAN
SIDE CONNECTION**



B	T	C BARS	D & E BARS	B	T	C BARS	D & E BARS
12"	4"	#4 @ 6	#5	42"	7 1/2"	#5 @ 6	#6
15"	4 1/4"			45"	7 3/4"		
18"	4 1/2"			48"	8"		
21"	5"			51"	8 1/2"		
24"	5 1/4"			54"	9"		
27"	5 1/2"			57"	9 1/4"		
30"	6"			60"	9 1/2"		
33"	6 1/4"			63"	10"		
36"	6 1/2"			66"	10 1/4"		
39"	7"			69"	10 3/4"		
				72"	1"		

APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE

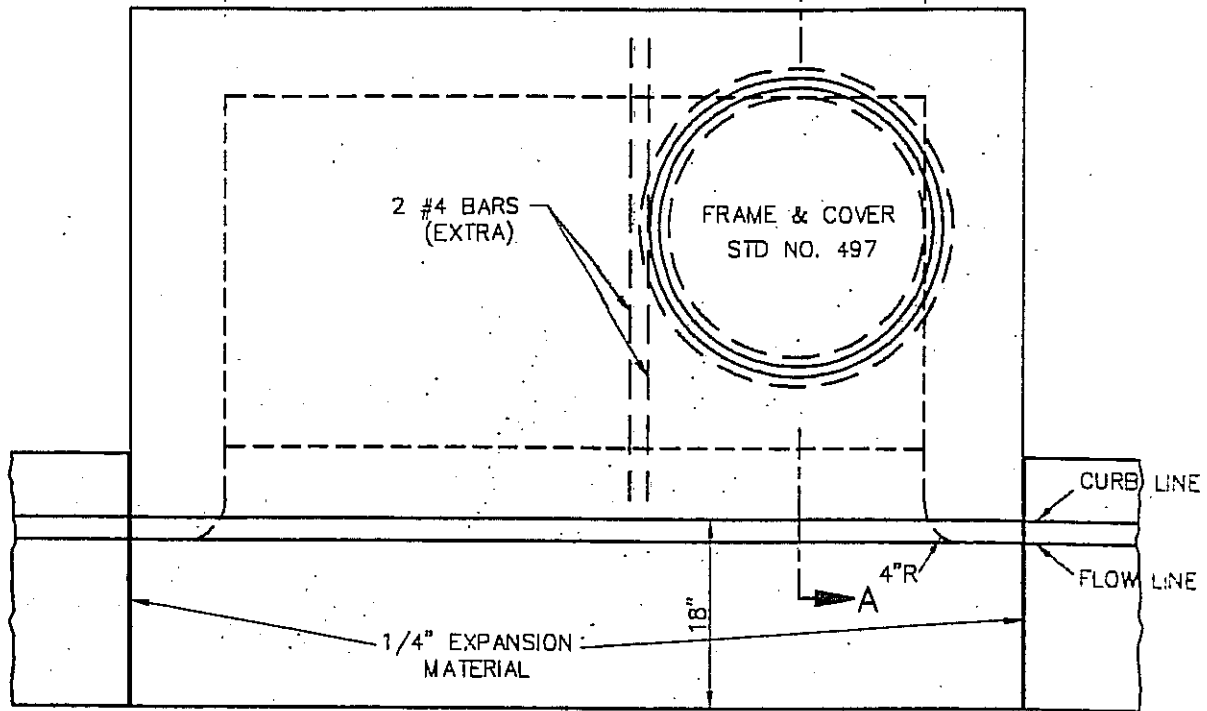


*Town of
Yucca Valley*

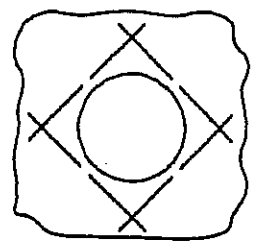
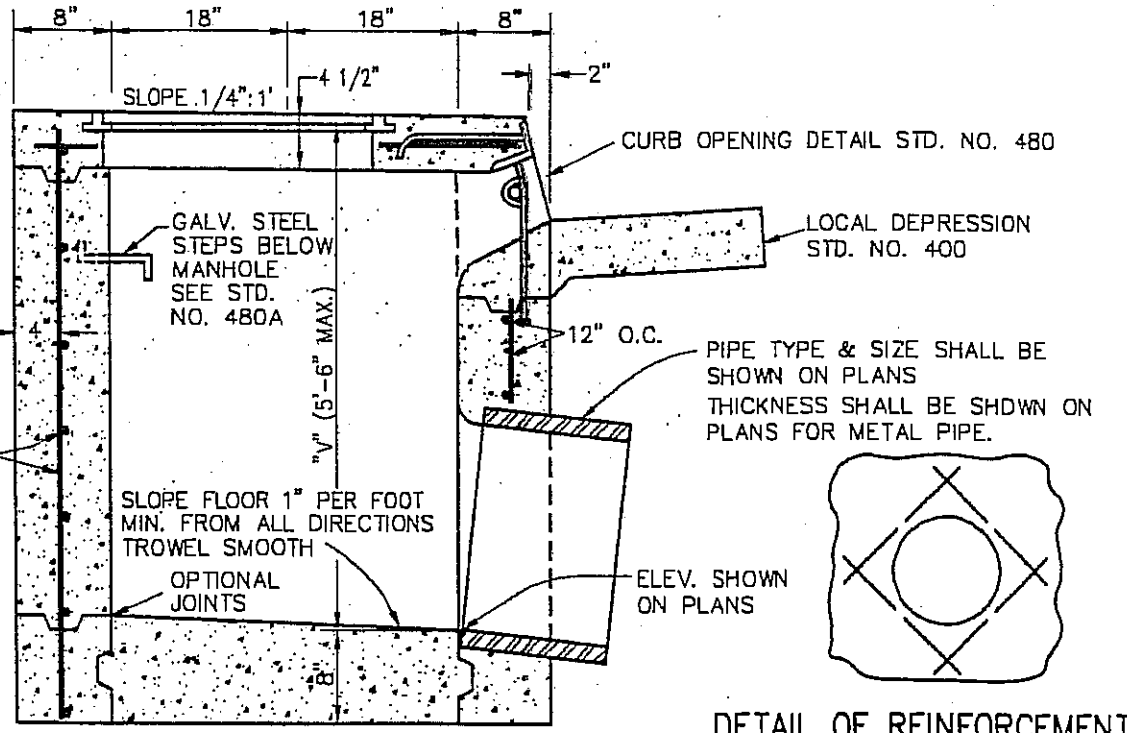
**SPECIAL CONNECTIONS
TO CATCH BASIN**

STANDARD DRAWING NO. 474

"X" (4' MIN.)
 FOR LENGTHS OVER 7' A SUPPORT BOLT SHALL
 BE USED (SEE STANDARD NO. 480)

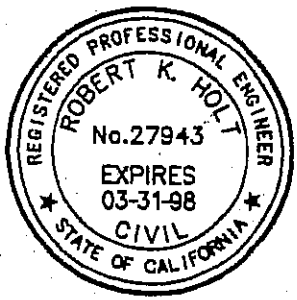


- NOTES:**
1. ALL REINFORCING SHALL BE #4 BARS AT 12" O.C. BOTH WAYS IN TOP SLAB AND WALLS.
 2. CATCH BASIN SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
 3. CURB & GUTTER ADJOINING CATCH BASIN SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTING TOP OF CATCH BASIN.



SECTION A-A

DETAIL OF REINFORCEMENT
 AROUND PIPE



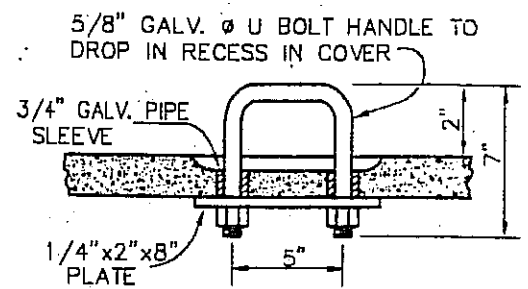
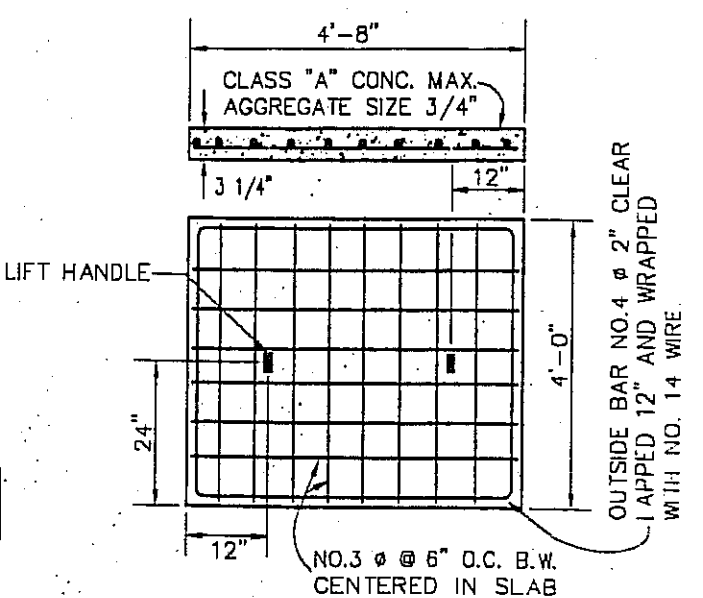
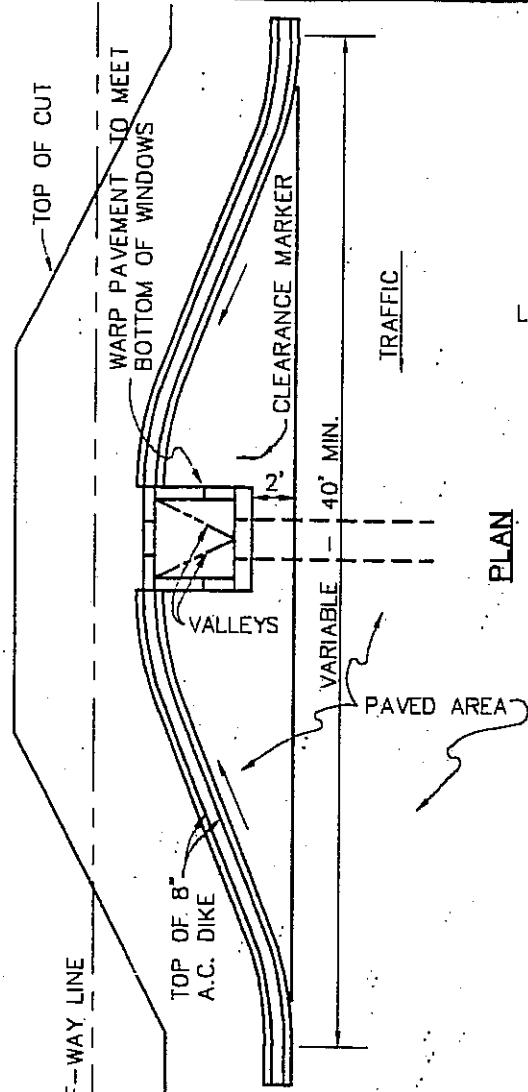
APPROVED:	DATE
APPROVED: TOWN ENGINEER <i>Robert K. Holt</i>	R.C.E. 27943
REVISION	BY DATE



Town of
Yucca Valley

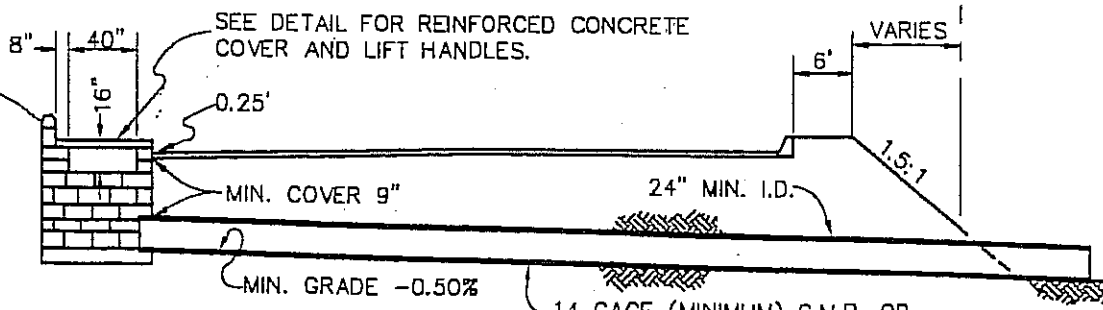
TYPE "A"
 CATCH BASIN

STANDARD DRAWING NO. 475

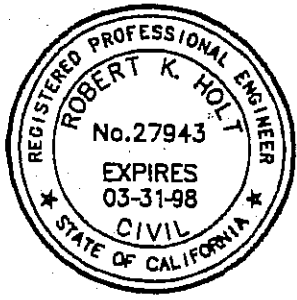


CONC. COVER AND HANDLE DETAIL

VARIABLE - MIN. 40'
 CLEAR R/W OF ALL TREES, STUMPS, BRUSH, ETC. CLEAR SLOPES AND DEDICATE SLOPE RIGHTS. NO BRUSH, STUMPS, ETC., TO BE USED IN FILLS.



NOTES:
 FOR CONSTRUCTION DETAILS OF CATCH BASIN SEE STD. NO. 448A.



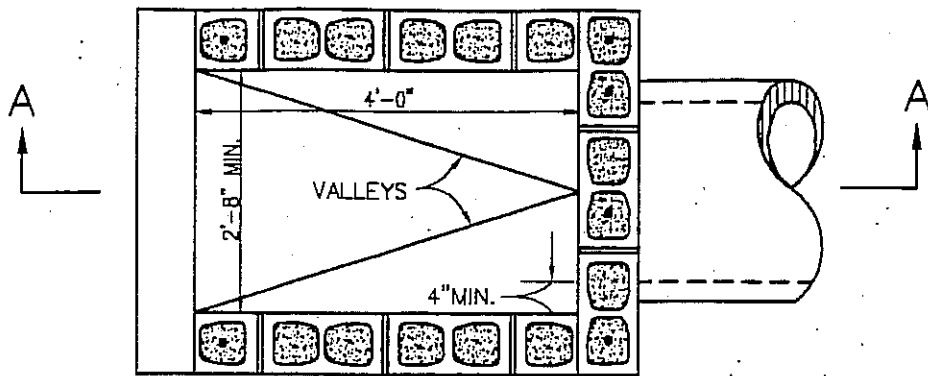
APPROVED:	DATE
APPROVED: TOWN ENGINEER <i>Robert K. Holt</i>	R.C.E. 27943
REVISION	BY DATE



Town of
Yucca Valley

CATCH BASIN
 MOUNTAIN ROADS

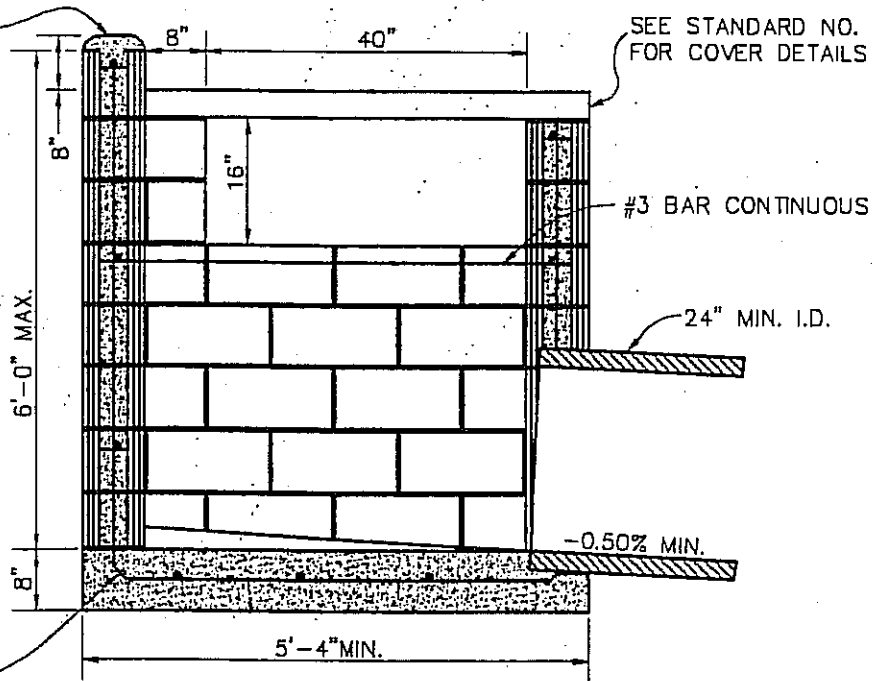
STANDARD DRAWING NO. 476



PLAN

CONCRETE CAP ON
BOND BEAM WITH
#3 BAR CONTINUOUS.

SEE STANDARD NO. 476
FOR COVER DETAILS

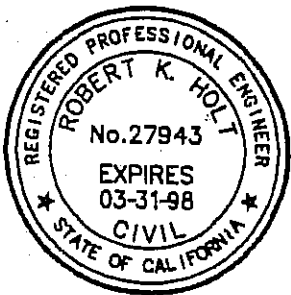


REINFORCEMENTS IN
BASE SHALL BE #3
BARS 16" O.C. BENT
AS VERTICAL DOWELS

SECTION A-A

NOTES:

1. 8"x8"x16" CONC. BLOCK WITH #3 STEEL 16" O.C. VERT. AND 24" O.C. HORIZ.
2. FILL ALL BLOCKS WITH GROUT.
3. BASE OF CATCH BASIN SHALL BE CONSTRUCTED WITH CLASS 'B' CONCRETE.
4. HORIZONTAL STEEL SHALL BE PLACED IN BOND BEAM BLOCKS.



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



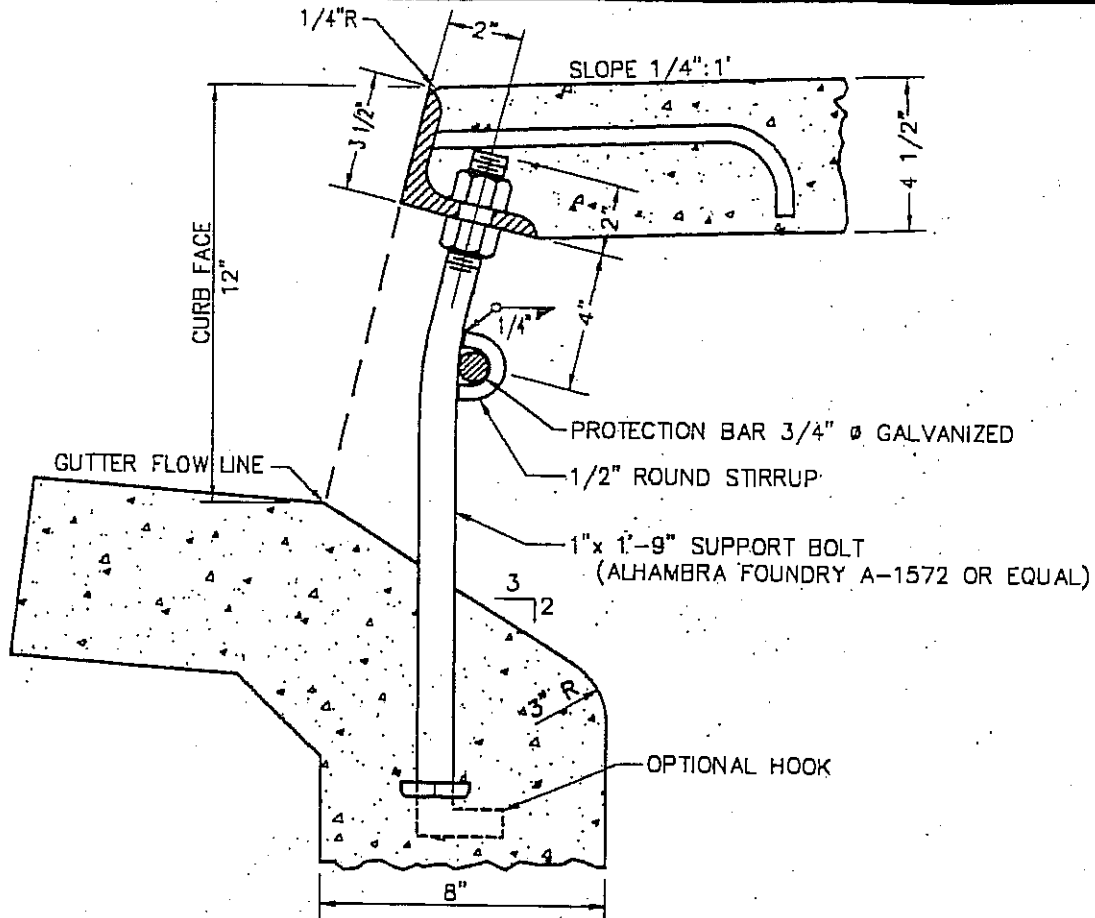
Town of
Yucca Valley

CATCH BASIN
MOUNTAIN ROADS

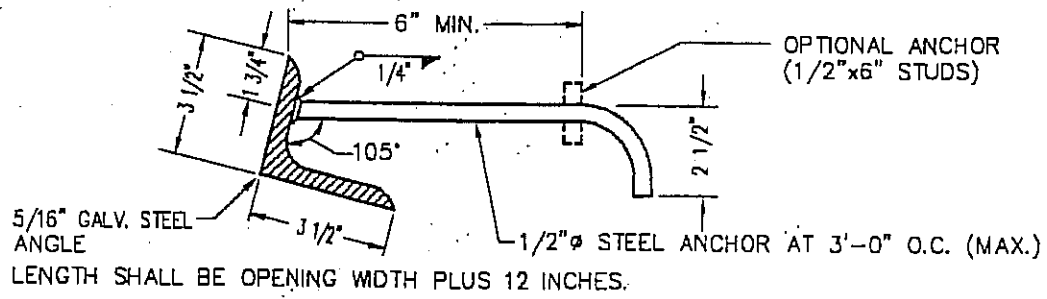
REVISION

BY DATE

STANDARD DRAWING NO. 476A



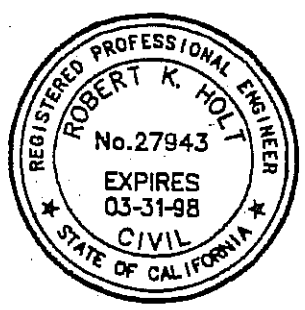
STEEL ANGLE & SUPPORT BOLT DETAIL



STEEL ANGLE ANCHOR

NOTES:

1. A PLAIN ROUND GALVANIZED STEEL PROTECTION BAR 3/4" IN DIA. SHALL BE INSTALLED AND EMBEDDED 6" AT EACH END.
2. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED. (EXCEPT FRAME AND COVER)
3. SUPPORT BOLTS SHALL BE UNIFORMLY SPACED BUT NOT TO EXCEED 7' ON CENTER.
4. STEEL ANGLE SHALL BE BENT TO MATCH CURB ALIGNMENT.



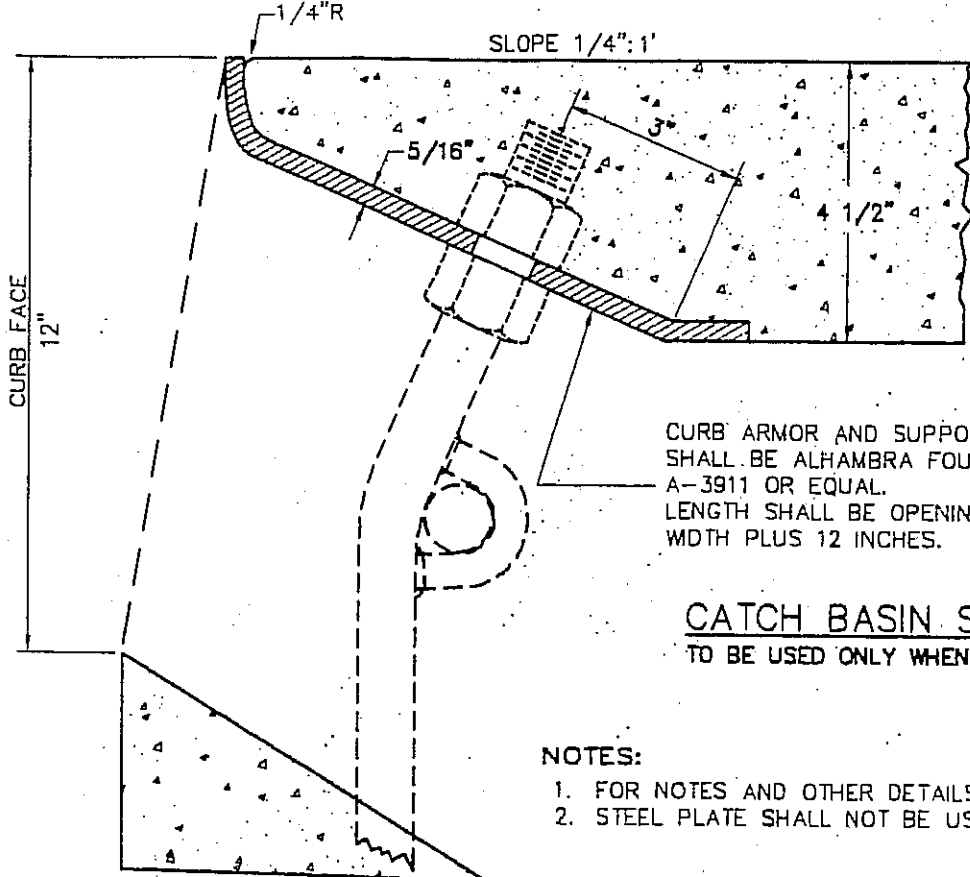
APPROVED:	DATE
APPROVED: TOWN ENGINEER <i>Robert K. Holt</i>	R.C.E. 27943
REVISION	BY DATE



Town of Yucca Valley

CATCH BASIN
OPENING

STANDARD DRAWING NO. 480

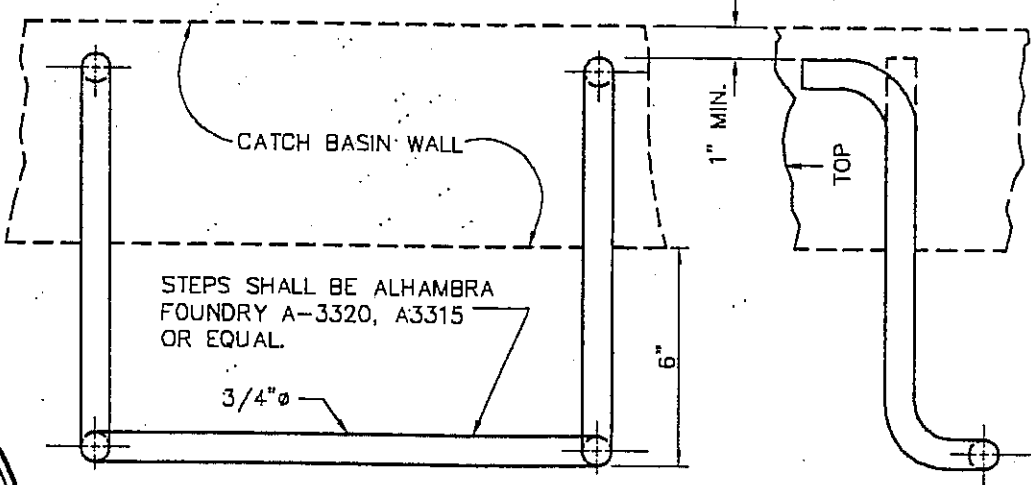


CURB ARMOR AND SUPPORT BOLTS SHALL BE ALHAMBRA FOUNDRY A-3911 OR EQUAL. LENGTH SHALL BE OPENING WIDTH PLUS 12 INCHES.

CATCH BASIN STEEL PLATE
TO BE USED ONLY WHEN SHOWN ON PLANS

NOTES:

1. FOR NOTES AND OTHER DETAILS SEE STD. NO. 480.
2. STEEL PLATE SHALL NOT BE USED ON CURVES.

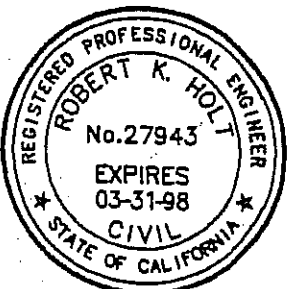


STEPS SHALL BE ALHAMBRA FOUNDRY A-3320, A3315 OR EQUAL.

GALVANIZED STEEL STEP

NOTES:

1. STEPS - NONE REQUIRED WHERE "V" IS 3'-6" OR LESS. INSTALL ONE STEP 16"± ABOVE FLOOR WHEN "V" IS MORE THAN 3'-6" AND LESS THAN 5'-0". WHERE "V" IS MORE THAN 5'-0" STEPS SHALL BE EVENLY SPACED @ 12"± INTERVALS FROM 16"± ABOVE THE FLOOR TO WITHIN 12"± FROM THE TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENINGS AND UNDER MANHOLE.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943



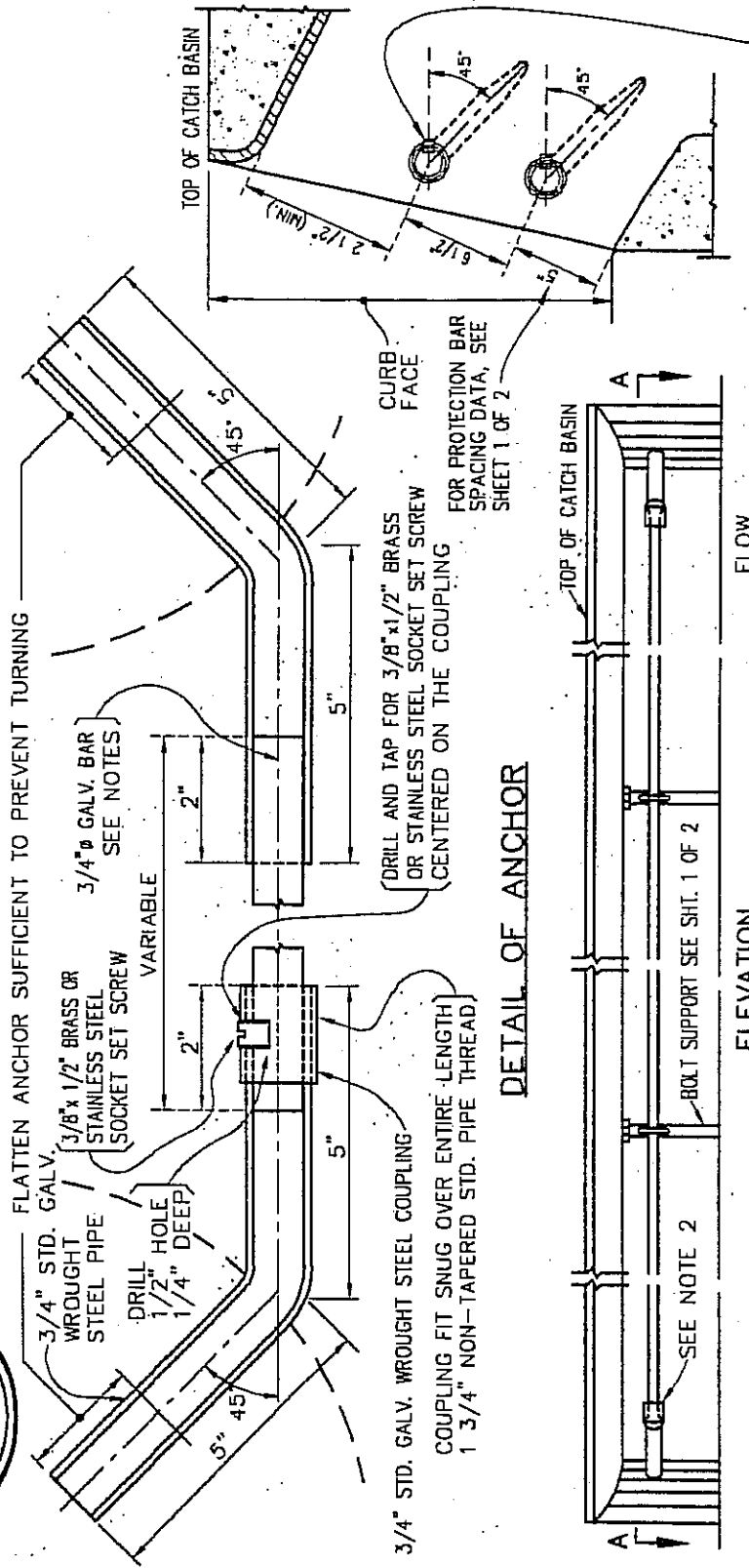
Town of
Yucca Valley

CATCH BASIN STEEL PLATE
GALVANIZED STEEL STEP

REVISION	BY	DATE

STANDARD DRAWING NO. 480A

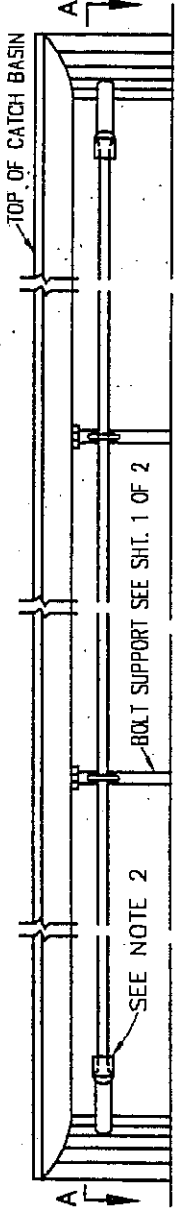
"W" (INCL)	NUMBER OF SUPPORT BOLTS	NUMBER OF "X" LENGTHS
5' to 10'	1	2
10' to 15'	2	3
15' to 20'	3	4
20' to 25'	4	5
25' to 30'	5	6



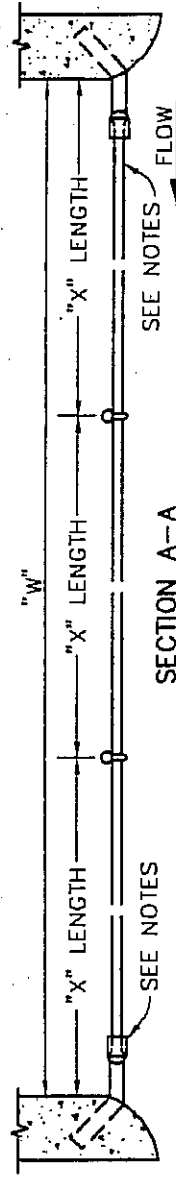
NOTE: BRASS OR STAINLESS STEEL SOCKET SET SCREW ON INSIDE OF CATCH BASIN

SECTION SHOWING LOCATION OF ANCHOR AT WALL OF CATCH BASIN

DETAIL OF ANCHOR



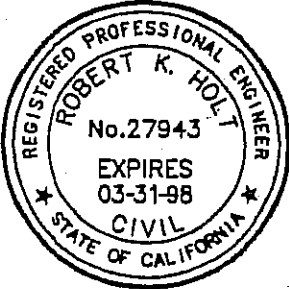
ELEVATION



SECTION A-A

NOTES:

- ALL BARS SHALL BE 3/4" GALV. HOT-ROLLED STEEL PER A.S.T.M. DESIGNATION A-36. BAR LENGTHS SHALL NOT EXCEED 21' AND SHALL BE CUT TO FIT IN THE FIELD. WHEN "W" IS OVER 21', PROTECTION BAR SHALL CONSIST OF TWO OR MORE SECTIONS DEPENDING UPON LENGTH OF BASIN. LOCATION OF SPECIAL SUPPORT BARS AND ADDITIONAL SOCKET SET SCREW TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
- INSTALL COUPLING AT DOWNSTREAM END OF CATCH BASIN OPENING.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt
R.C.E. 27943

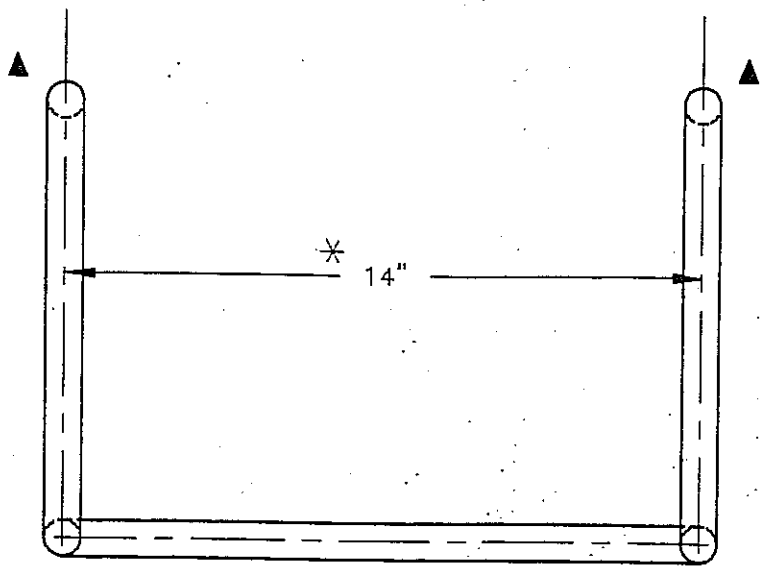
REVISION	BY	DATE



Town of
Yucca Valley

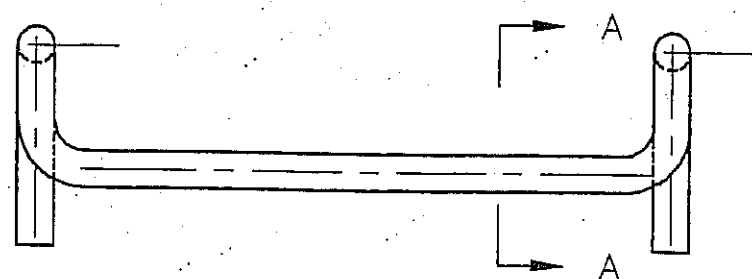
REMOVABLE PROTECTION BAR FOR CATCH BASINS

STANDARD DRAWING NO. 481

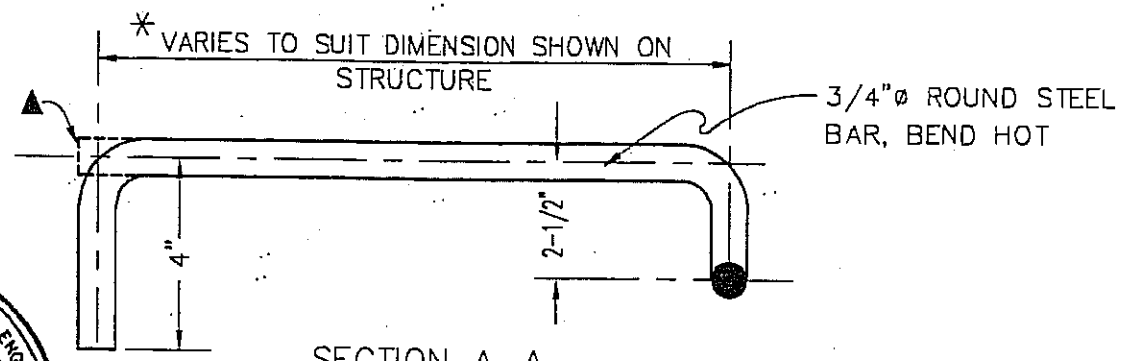


PLAN VIEW

NOTE:
 ▲ = WHEN STEEL FORMS ARE USED, ELIMINATE HOOK AND USE UPSET END.

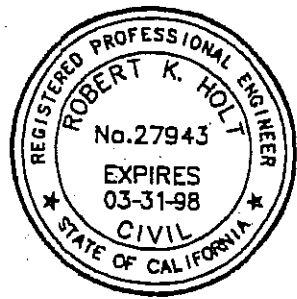


FRONT ELEVATION



SECTION A-A
 GALVANIZE AFTER BENDING

NOTE:
 THIS DETAIL SHALL BE USED WHEREVER STEPS ARE REQUIRED.



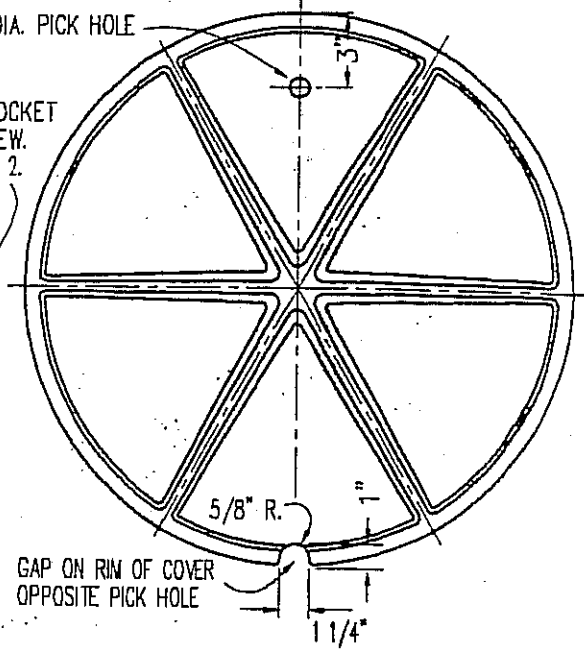
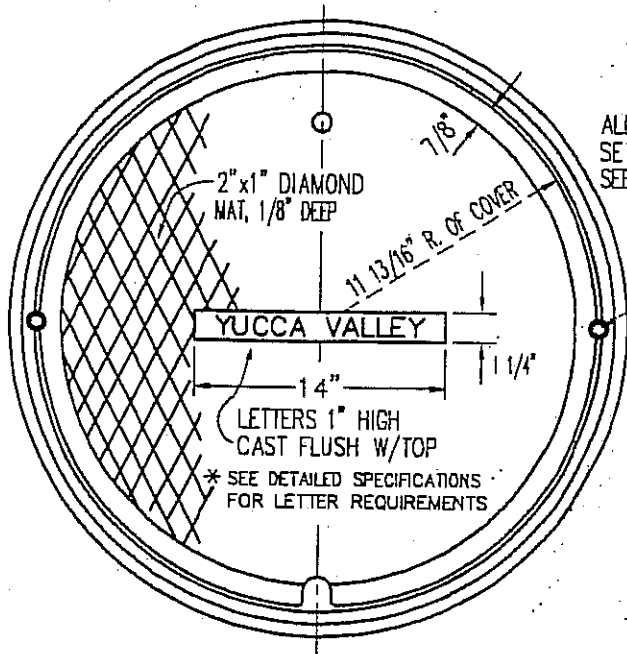
APPROVED:	DATE _____
APPROVED: TOWN ENGINEER <i>Robert K. Holt</i>	R.C.E. 27943
REVISION	BY DATE



Town of
Yucca Valley

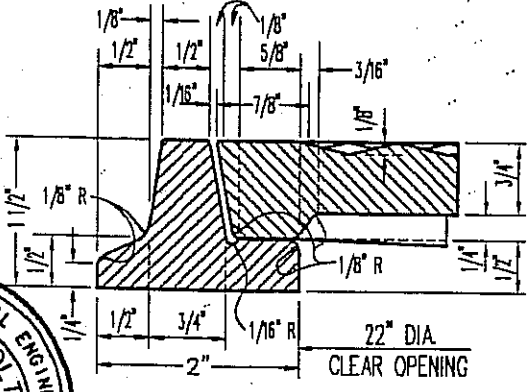
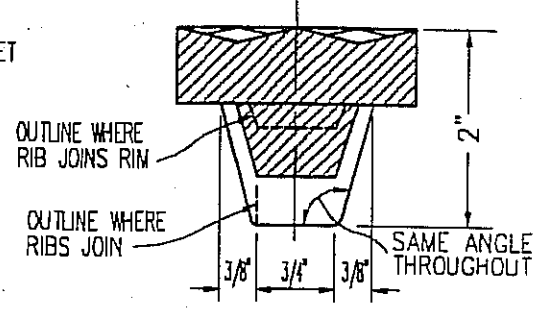
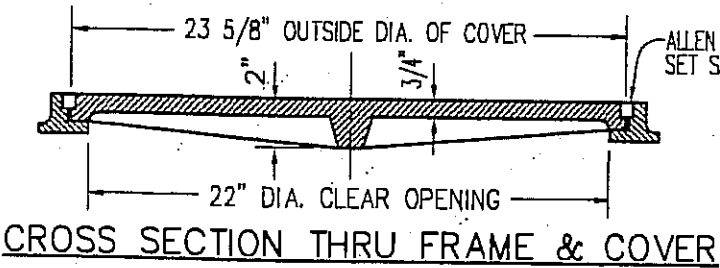
STANDARD
 DROP STEP

STANDARD DRAWING NO. 482



TOP OF MANHOLE FRAME & COVER
TOTAL WT. = 130 lbs.

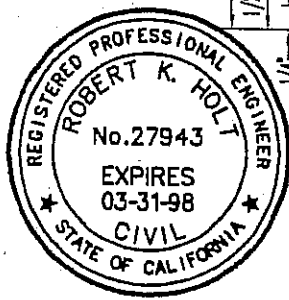
BOTTOM OF MANHOLE COVER



CROSS SECTION THRU RIB

NOTES:

1. FRAME AND COVER SHALL BE GRAY CAST IRON CONFORMING TO THE LATEST A.S.T.M. STANDARD A48, CLASS 30 OR BETTER. GALVANIZE PER A.S.T.M. A385.
2. INSTALL TWO 3/4" x 3/4" ALLEN SOCKET SET SCREWS, 90° TO PICK HOLE, IN HOLES DRILLED AND TAPPED 1" IN DEPTH. GALVANIZE PER A.S.T.M. 153.
3. FRAME AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS BEFORE DELIVERY. RETAP FRAME AS REQUIRED TO SUIT SET SCREWS.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt
R.C.E. 27943

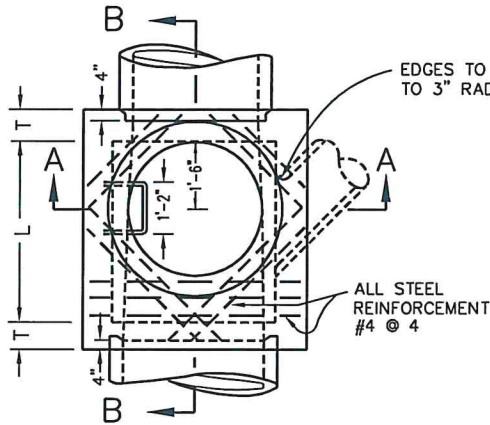


Town of
Yucca Valley

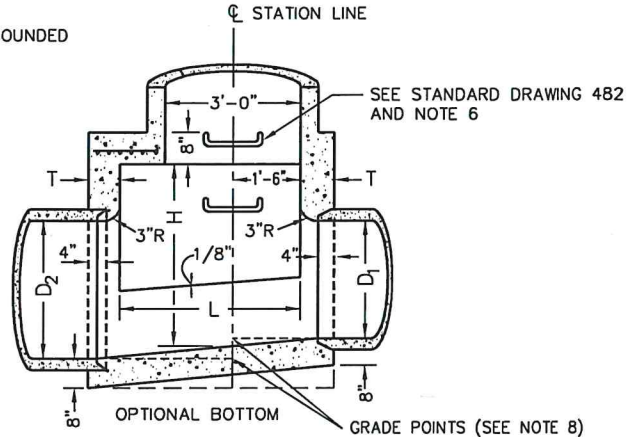
MANHOLE FRAME &
COVER FOR CATCH BASINS

STANDARD DRAWING NO. 483

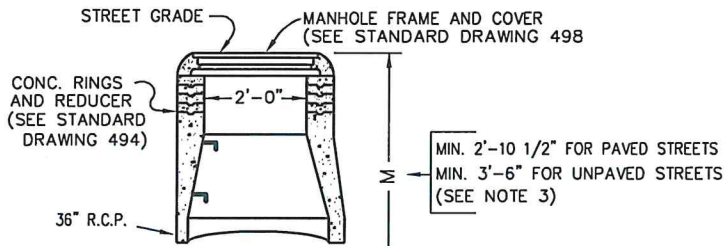
REVISION	BY	DATE



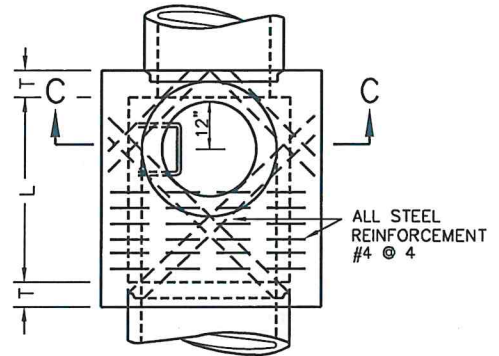
PLAN
(SHAFT NOT SHOWN)



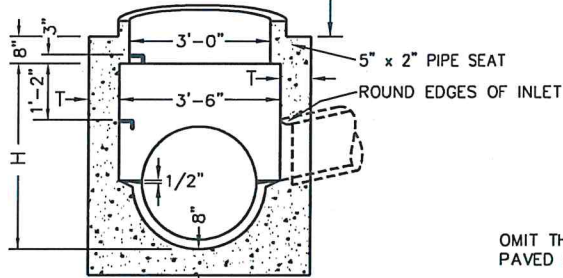
SECTION B-B



SECTION A-A

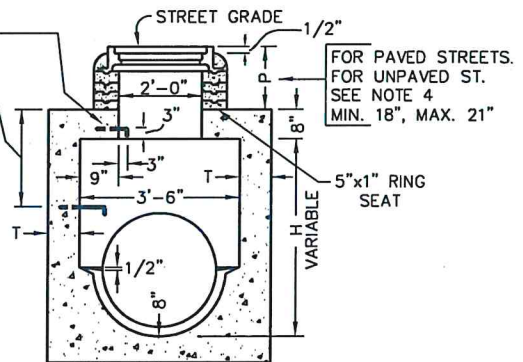


DETAIL N
PLAN
(SHAFT NOT SHOWN, SEE NOTE 3)



OMIT THIS STEP IN PAVED STREETS.

1'-4" FOR PAVED STREETS
2'-2" FOR UNPAVED STREETS.



SECTION C-C

NOTE: FOR PIPE DIAMETERS 33" AND SMALLER



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Christos

DATE 4/21/25

APPROVED: TOWN ENGINEER

Noel Owsley

R.C.E. 39827

ADD PIPE DIAMETER NOTE

-N- 8/30/24

REVISION

BY DATE



Town of
Yucca Valley

STORM DRAIN
MANHOLE NO. 1
SHEET 1 OF 2

STANDARD DRAWING NO. 490

1. HEIGHT H SHALL BE NOT LESS THAN 4'-0" BUT MAY BE INCREASED AT OPTION OF CONTRACTOR PROVIDED THAT THE VALUE OF M SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED AND THAT THE REDUCER SHALL BE USED. FOR H (IN SEC. C-C) SEE NOTE 4.
2. LENGTH L SHALL BE 4' UNLESS OTHERWISE SHOWN ON IMPROVEMENT PLAN. L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS AT THE OPTION OF THE CONTRACTOR, EXCEPT THAT ANY CHANGE IN LOCATION OF MANHOLE MUST BE APPROVED BY THE ENGINEER.
3. SHAFT SHALL BE CONSTRUCTED AS PER SEC. C-C AND DETAIL N WHEN DEPTH M FROM STREET GRADE TO TOP OF BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS.
4. DEPTH P MAY BE REDUCED TO AN ABSOLUTE LIMIT OF 6 INCHES WHEN LARGER VALUES OF P WOULD REDUCE H (IN SEC. C-C) TO BE 3'-6" OR LESS.
5. T SHALL BE 8" FOR VALUES OF H UP TO AND INCLUDING 8 FEET. T SHALL BE 10" FOR VALUES OF H OVER 8 FEET.
6. STEPS SHALL BE 3/4" ROUND, GALVANIZED STEEL AND ANCHORED NOT LESS THAN 4" IN THE WALLS OF STRUCTURES. UNLESS OTHERWISE SHOWN, STEPS SHALL BE SPACED 16" ON CENTER. THE LOWEST STEP SHALL BE NOT MORE THAN 2 FT. ABOVE THE INVERT.
7. REINFORCING STEEL SHALL BE NO. 4 AND 1-1/2" CLEAR FROM INSIDE FACE OF CONCRETE.
8. STATIONS REFER TO PLAN AND PROFILE SHEETS. ELEVATIONS AT ϕ AND PROLONGED INVERT GRADE LINE. SEE NOTE 2 FOR SHIFTING LOCATION.
9. RINGS, REDUCER, AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN CEMENT MORTAR AND NEATLY POINTED OR WIPED INSIDE SHAFT.
10. FLOOR OF MANHOLE SHALL BE STEEL-TROWELED.
11. CONCRETE SHALL BE CLASS "A".



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

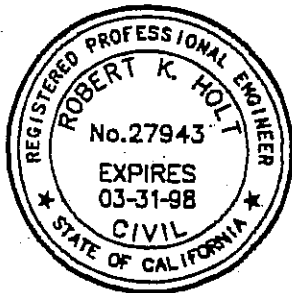
STORM DRAIN
MANHOLE NO. 1

SHEET 2 OF 2

REVISION

BY DATE

STANDARD DRAWING NO. 490A



APPROVED:

APPROVED: TOWN ENGINEER

Robert K. Holt

DATE

R.C.E. 27943

REVISION

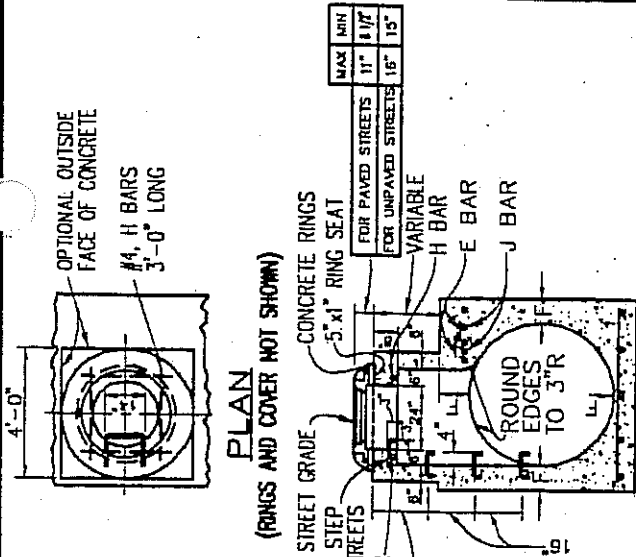
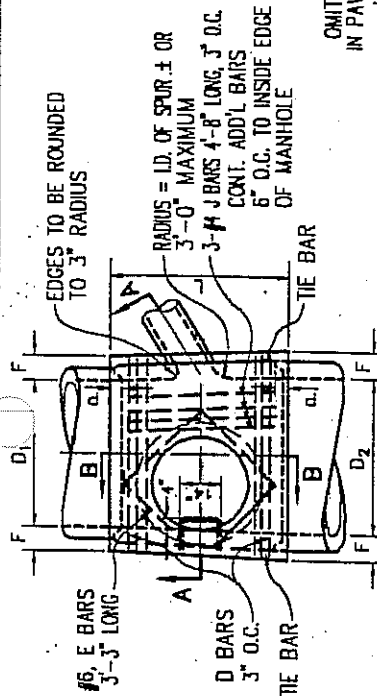
BY DATE



Town of
Yucca Valley

STORM DRAIN
MANHOLE No. 2

STANDARD DRAWING NO. 491



DETAIL M (SEE NOTE 3)

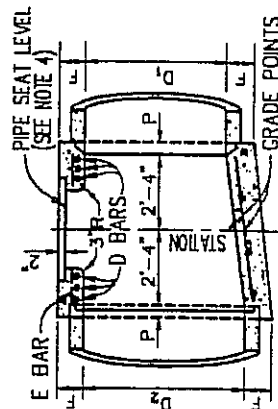
NOTES:

- TABLE OF VALUES FOR "F" ARE ON THIS PLAN.
- CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTERLINE OF STORM DRAIN WHEN DIAMETER D₁ IS 48" OR LESS, IN WHICH CASE PLACE E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE AND OMIT J BARS.
- DETAIL M: WHEN DEPTH OF MANHOLE FROM STREET GRADE TO TOP OF BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER DETAIL M. SHAFT FOR ANY DEPTH OF MANHOLE MAY BE CONSTRUCTED PER DETAIL M, WHEN DIAMETER D₁ IS 48" OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 2.
- THICKNESS OF DECK SHALL VARY WHEN NECESSARY TO PROVIDE LEVEL PIPE SEAT BUT SHALL NOT BE LESS THAN TABULAR VALUES FOR F SHOWN ON THIS PLAN.
- REINFORCING STEEL TO BE ROUND, DEFORMED BARS, 1-1/2" CLEAR FROM INSIDE FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
- STEPS SHALL 3/4" ROUND, GALVANIZED STEEL AND ANCHORED NOT LESS THAN 2" IN THE WALL OF STRUCTURE UNLESS OTHERWISE SHOWN, THE SPACING SHALL BE 18". THE LOWEST STEP SHALL NOT BE MORE THAN 2'-0" ABOVE THE INVERT. SEE STD. DWG. 482.
- RINGS, REDUCER AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN HORIZONTAL AND NEATLY POINTED OR WEDGED INSIDE THE SHAFT.
- ELEVATIONS OF MANHOLES SHOWN ON PLAN APPLY AT CENTER OF SHAFT.
- FLOOR OF MANHOLE SHALL BE STEEL-TROWELED TO SPRING LINE.
- BODY OF MANHOLE SHALL BE Poured IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT THE SPRING LINE.
- LENGTH L AND EMBEDMENT P SHALL HAVE THE FOLLOWING VALUES UNLESS OTHERWISE SHOWN ON PLAN:
FOR D₁ = 66" OR LESS, L = 5'-9", P = 5'-0"
D₁ OVER 66", L = 6'-0", P = 6'-0"
- L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS WHEN L GREATER THAN THAT SHOWN ABOVE IS SPECIFIED, D BARS SHALL BE CONTINUED 8" O.C.
- D BARS SHALL BE #4 FOR D₁ = 36" OR LESS, #5 FOR D₁ = 42" TO 64" INCLUSIVE AND #6 FOR D₁ = 60" OR OVER. THE BARS SHALL BE #4 BARS.
- STRUCTURAL CONCRETE SHALL BE CLASS "A".
- CENTERLINE OF INLET PIPE TO INTERSECT INSIDE FACE OF CONE AT SPRING LINE UNLESS OTHERWISE SHOWN.
- WHEN PRESSURE MANHOLE NO. 2 IS SPECIFIED ON PLANS, SEE STD. DWG. 495 AND NOTE 3.

#D ₂ D ₁	F	#D ₂ D ₁	F
36"	5 1/2"	78"	11 3/4"
39"	7"	84"	12 1/2"
42"	7 1/2"	90"	13 1/4"
45"	7 3/4"	96"	14"
48"	8"	102"	15 1/2"
51"	8 1/2"	108"	16"
54"	9"	114"	16 1/2"
57"	9 1/4"	120"	17"
60"	9 1/2"	126"	17 1/2"
63"	10"	132"	18 1/2"
66"	10 1/4"	138"	19 1/2"
69"	10 3/4"	144"	20"
72"	11"		

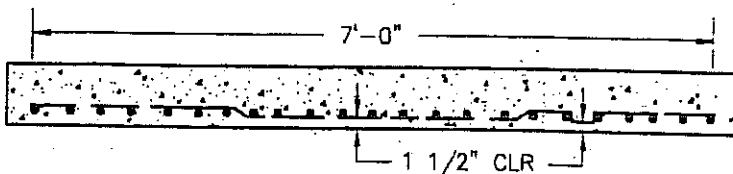
* USE D₂ OR D₁, WHICHEVER IS GREATER

SECTION A-A



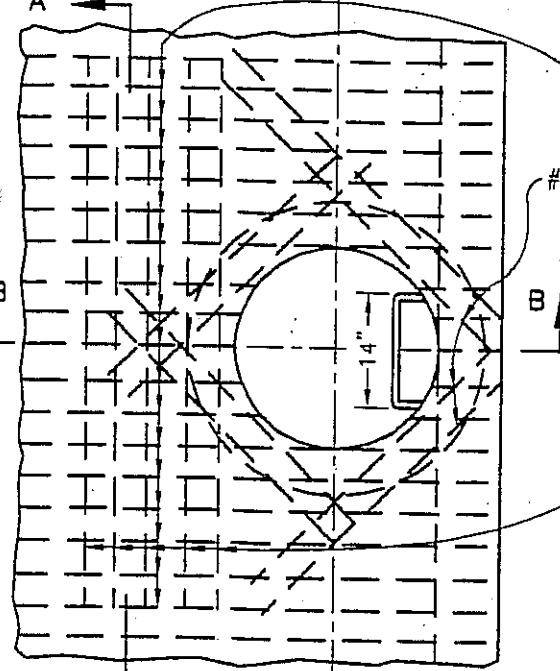
SIZE AND SPACING OF STEEL AS SHOWN ON IMPROVEMENT PLAN, EXCEPT THAT 5 BARS ON EACH SIDE OF SHAFT SHALL BE NOT SMALLER THAN #5 @ 4" O.C. OR EQUIVALENT.

#5 BARS 5' LONG @ 4" C.C.



SECTION A-A

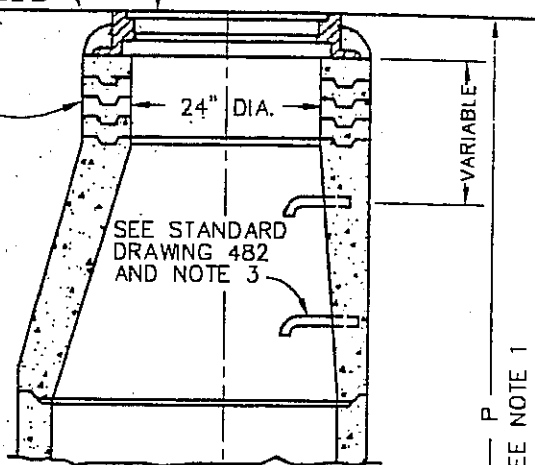
5 BARS 7' LONG 4" O.C. OF SIZE SHOWN FOR TRANSVERSE STEEL ON IMPROVEMENT PLAN EXCEPT NOT LESS THAN #5. WARP THESE BARS UNDER BARS THAT HAVE BEEN CUT FOR SHAFT OPENING



PLAN
(SHAFT NOT SHOWN)

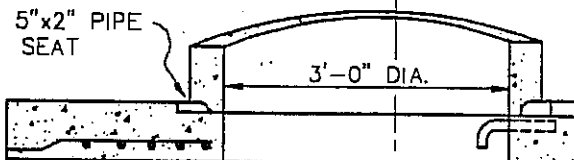
STREET GRADE
MANHOLE FRAME AND COVER (SEE STD. DWG. 498)

CONCRETE RINGS AND REDUCER (SEE STD. DWG. 494)



SEE STANDARD DRAWING 482 AND NOTE 3

SEE NOTE 1

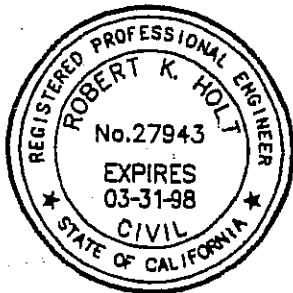


SECTION B-B

SEE NOTE 3

NOTE:

- 1- DEPTH P: WHEN DEPTH P FROM STREET GRADE TO TOP OF PIPE SEAT IS LESS THAN 2'-10 1/2" IN PAVED STREETS OR 3'-6" IN UNPAVED STREETS, CONSTRUCT 2 FT. DIAMETER SHAFT USING CONCRETE RINGS AS PER STANDARD PLAN FOR CONCRETE RINGS, OTHERWISE, CONSTRUCT 3 FT. SHAFT AS SHOWN ON THIS PLAN.
- 2- STATIONS SHOWN ON IMPROVEMENT PLAN REFER TO CENTERLINE OF SHAFT.
- 3- STEPS SHALL BE 3/4" ROUND GALVANIZED STEEL ANCHORED NOT LESS THAN 4" IN WALLS OF STRUCTURE AND UNLESS OTHERWISE SHOWN, SHALL BE SPACED 16" ON CENTER. THE LOWEST STEP SHALL NOT BE MORE THAN 2 FEET ABOVE THE FLOOR.



APPROVED:

DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

STORM DRAIN
MANHOLE NO. 3

STANDARD DRAWING NO. 492

REVISION

BY DATE

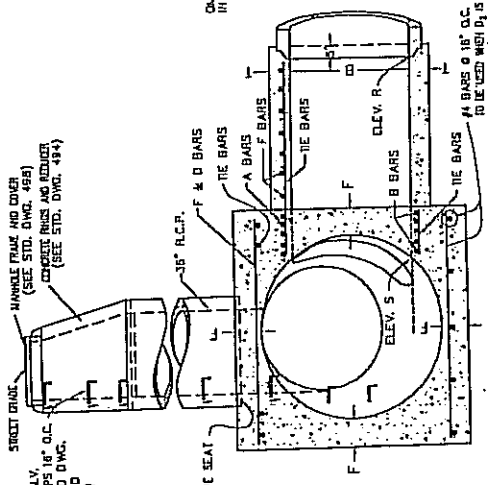
3/4" GALV. STEEL STEPS 18" O.C. (SEE STD. DWG. 482, 483, AND NOTE 6)

5'-2" PIPE SEAT

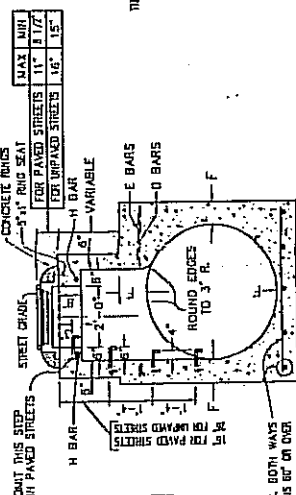
38" R.C.P.

CONCRETE RINGS FOR PAVED STREETS 11" B 1/2" FOR UNPAVED STREETS 14" B 1/2"

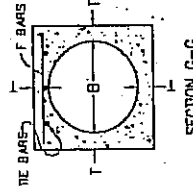
MAX. MIN. 11" 14"



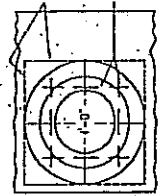
SECTION N-N-P-P-O
PROJECTED P-P-O



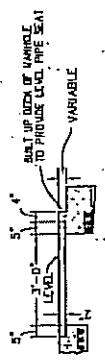
DETAIL M
(SEE NOTE 3)



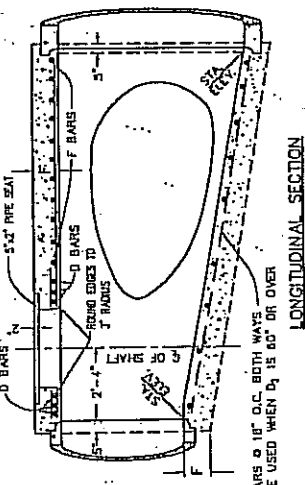
SECTION G-G



PLAN
(PIES AND COVER NOT SHOWN)



SEAT FOR SHAFT
WHEN TOP IS NOT LEVEL

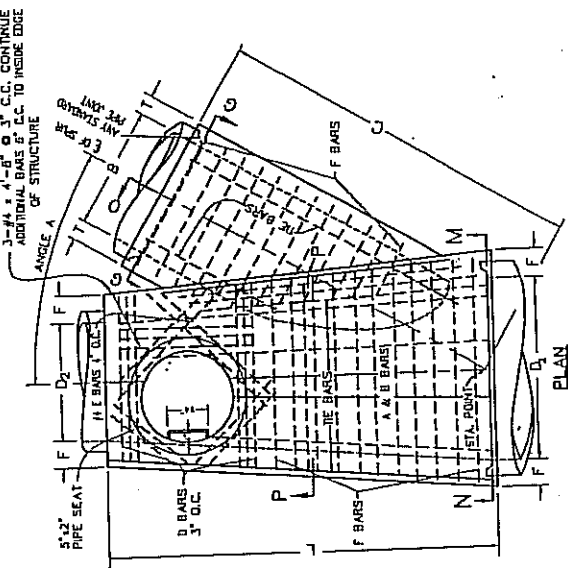


LONGITUDINAL SECTION

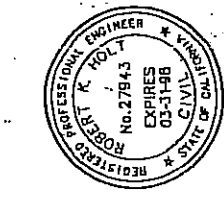
#4 BARS @ 18" O.C. BOTH WAYS TO BE USED WHEN D_1 IS 18" OR OVER

TABLE OF BAR SIZES		
D_1, D_2 OR B	A & B BARS	D & F BARS
12" - 38"	NO. 5 @ 3"	NO. 4 @ 6"
42" - 84"	NO. 6 @ 3"	NO. 5 @ 6"
90" - 144"	NO. 7 @ 3"	NO. 6 @ 6"

* USE D_2 OR B, WHICHEVER IS GREATER, OR B.



PLAN
(SHAFT NOT SHOWN)



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE

Town of
Yucca Valley

STORM DRAIN
MANHOLE NO. 4

STANDARD DRAWING NO. 493

NOTES

- 1- VALUES FOR A, B, C, D₁, D₂, ELEV. R AND ELEV. S ARE SHOWN ON THE IMPROVEMENT PLANS. TABLE OF VALUES FOR F AND T HEREON.
- 2- LATERALS: IF LATERALS ENTER ON BOTH SIDES OF MANHOLE, ACCESS SHAFT SHALL BE LOCATED ON SIDE RECEIVING THE SMALLER LATERAL.
- 3- CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTERLINE OF MAIN STORM DRAIN WHEN D₁ IS 48" OR LESS, IN WHICH CASE PLACE 8 E BARS SYMMETRICALLY AROUND SHAFT AT 45' WITH CENTERLINE.
- 4- LENGTH L MAY BE INCREASED AT OPTION OF CONTRACTOR TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.
- 5- DETAIL N: WHEN DEPTH OF MANHOLE FROM STREET GRADE TO TOP OF BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER DETAIL N. THE CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING SHAFT AS PER DETAIL N FOR ANY DEPTH OF MANHOLE WHEN DIAMETER D₁ IS 48" OR LESS, CENTER OF SHAFT SHALL BE LOCATED PER NOTE 3.
- 6- REINFORCING STEEL SHALL BE ROUND, DEFORMED, STRAIGHT BARS, 1 1/2" CLEAR FROM INSIDE FACE UNLESS OTHERWISE SHOWN. THE BARS SHALL BE NO. 4 AND SPACED 18" ON CENTERS OR CLOSER.
- 7- CONCRETE SHALL BE CLASS "A".
- 8- STEPS SHALL BE 3/4" GALVANIZED STEEL AND ANCHORED NOT LESS THAN 4" IN WALLS OF STRUCTURE. UNLESS OTHERWISE SHOWN THE SPACING SHALL BE 16" ON CENTER. THE LOWEST STEP SHALL BE NOT MORE THAN 2 FT. ABOVE THE INVERT.
- 9- RINGS, REDUCERS, AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN CEMENT MORTAR AND NEATLY POINTED OR WIPED INSIDE SHAFT.
- 10- FLOOR OF MANHOLE SHALL BE STEEL-TROWELED TO SPRING LINE.
- 11- BODY OF MANHOLE, INCLUDING SPUR, SHALL BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING AT THE SPRING LINE A CONSTRUCTION JOINT WITH LONGITUDINAL KEYWAY.

* USE D₁ OR D₂, WHICHEVER IS GREATER, OR B.

** IF D₂, D₁, OR B FALLS BETWEEN TABULATED VALUES THEN USE THE NEXT HIGHEST VALUE TO DETERMINE F OR T.

TABLE OF VALUES FOR F AND T

X D ₁ , D ₂	F	B	T	B	T
12"	4"	12"	4"	78"	11 3/4"
15"	4 1/4"	15"	4 1/4"	84"	12 1/2"
18"	4 1/2"	18"	4 1/2"	90"	13 1/4"
21"	5"	21"	5"	96"	14"
24"	5 1/4"	24"	5 1/4"	102"	15 1/2"
27"	5 1/2"	27"	5 1/2"	108"	16"
30"	6"	30"	6"	114"	16 1/2"
33"	6 1/4"	33"	6 1/4"	120"	17"
36"	6 1/2"	36"	6 1/2"	126"	17"
39"	7"	39"	7"	132"	17 1/2"
42"	7 1/2"	42"	7 1/2"	138"	17 1/2"
45"	7 3/4"	45"	7 3/4"	144"	18"
48"	8"	48"	8"		
51"	8 1/2"	51"	8 1/2"		
54"	9"	54"	9"		
57"	9 1/4"	57"	9 1/4"		
60"	9 1/2"	60"	9 1/2"		
63"	10"	63"	10"		
66"	10 1/4"	66"	10 1/4"		
69"	10 3/4"	69"	10 3/4"		
72"	11"	72"	11"		
78"	11 3/4"				
84"	12 1/2"				
90"	13 1/4"				
96"	14"				
102"	15 1/2"				
108"	16"				
114"	16 1/2"				
120"	17"				
126"	17"				
132"	17 1/2"				
138"	17 1/2"				
144"	18"				



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

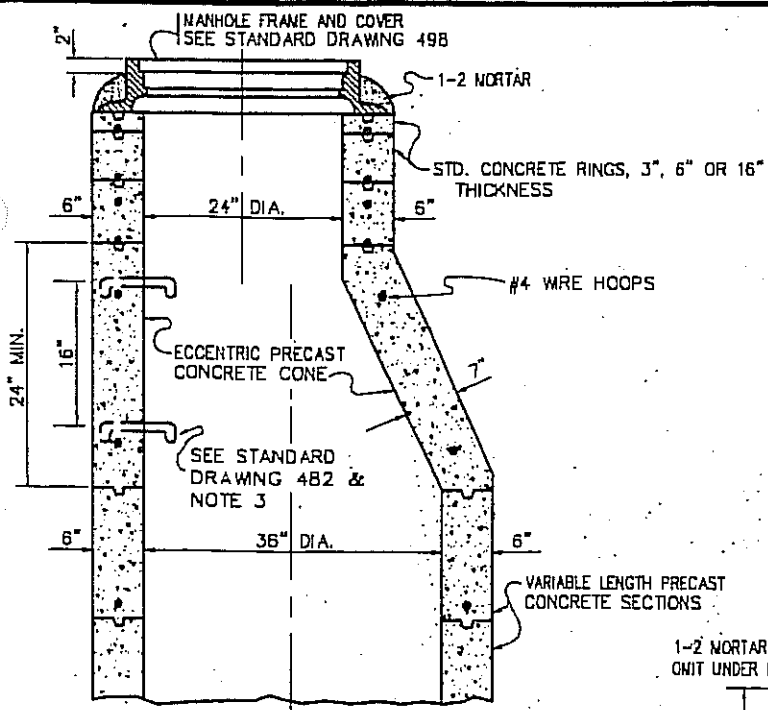


Town of
Yucca Valley

STORM DRAIN
 MANHOLE NO. 4

REVISION	BY	DATE

STANDARD DRAWING NO. 493A

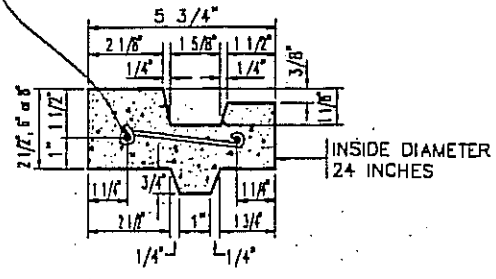


VERTICAL SECTION OF PLAIN CONCRETE ECCENTRIC MANHOLE SHAFT

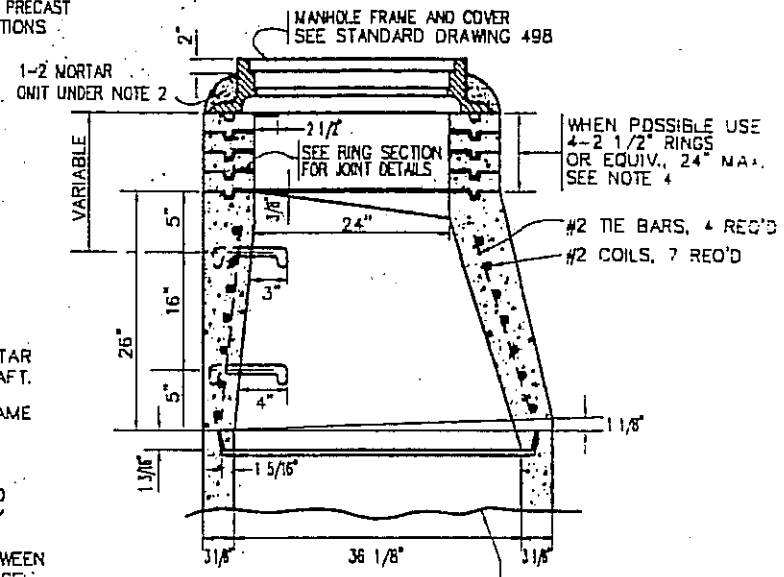
NOTES:

1. ALL JOINTS SHALL BE FILLED WITH 1-2 MORTAR AND NEATLY POINTED OR WIPED INSIDE OF SHAFT.
2. COLLAR OF 1-2 MORTAR AROUND COVER FRAME SHALL BE OMITTED IN ROCK AND OIL STREETS AND IN PAVED STREETS.
3. STEPS SHALL BE 3/4 INCH ROUND GALVANIZED STEEL. TOP STEP SHALL BE PLACED DIRECTLY BENEATH THE MANHOLE COVER FRAME. WIDTH OF ALL STEPS SHALL BE 14 INCHES BETWEEN LEG CENTERS. EXCEPT WHERE SHOWN OTHERWISE, SPACING OF STEPS IN SHAFT SHALL BE 16 INCHES ON CENTER.
4. ECCENTRIC MANHOLE SHAFT, REDUCER, AND RINGS MAY BE PLAIN CONCRETE. FOR UNREINFORCED SECTIONS, THE MINIMUM THICKNESS SHALL BE 6 INCHES. THE CONCRETE USED SHALL BE CLASS "A".

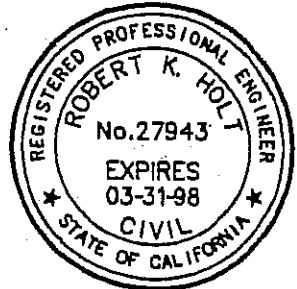
2 1/2 INCH RINGS SHALL BE REINFORCED WITH TWO 1/4" ROUND STEEL HOOPS; 6 INCH AND 8 INCH RINGS SHALL BE REINFORCED WITH FOUR HOOPS, TIED WITH #14 A.S. & W. GAUGE WIRE 8 INCHES ON CENTERS



CROSS SECTION OF REINFORCED CONCRETE RING

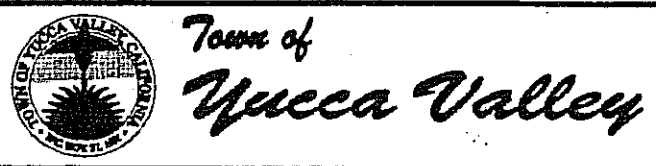


VERTICAL SECTION OF REINFORCED CONCRETE ECCENTRIC MANHOLE SHAFT



APPROVED: _____ DATE _____

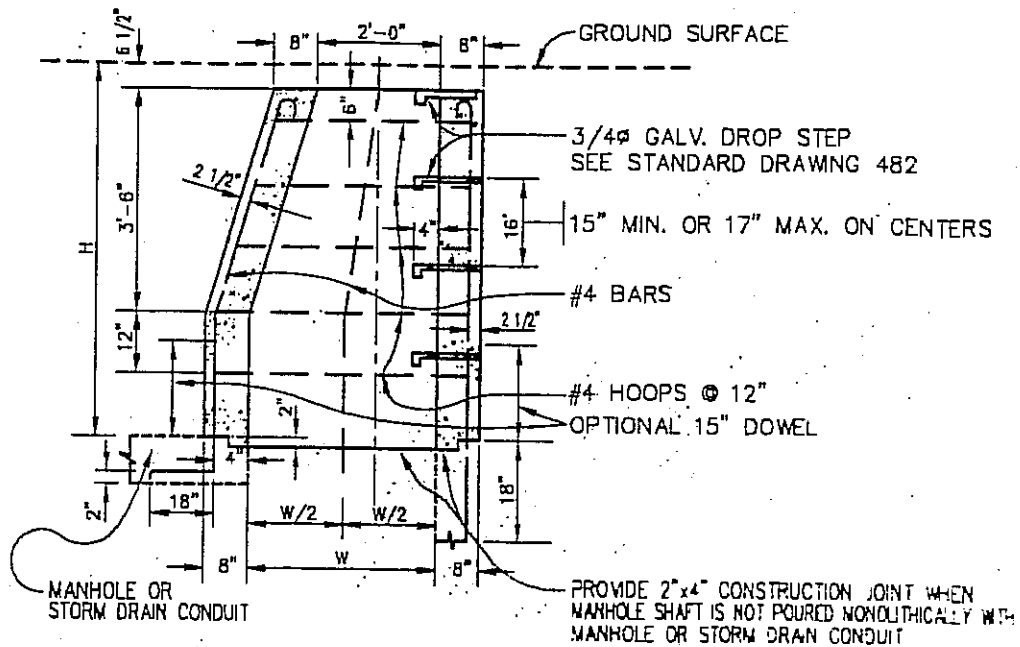
APPROVED: TOWN ENGINEER
Robert K. Holt
 R.C.E. 27943



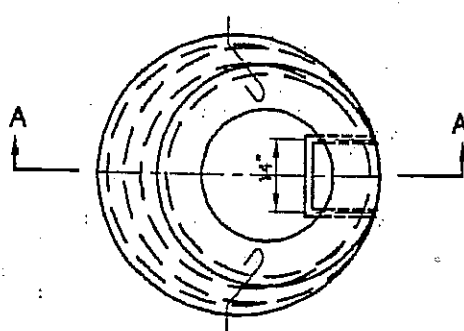
MANHOLE SHAFT FOR CAST PIPE

STANDARD DRAWING NO. 494

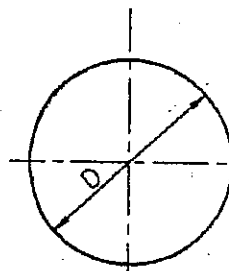
REVISION	BY	DATE



SECTION A-A



PLAN



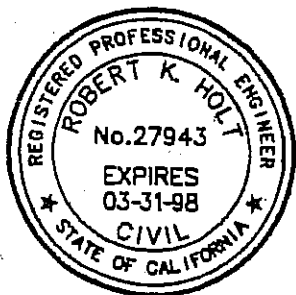
#4 HOOP BARS

ELECTRICALLY BUTT WELD ENDS OR LAP ENDS OF BAR 18"

WHERE H IS MORE THAN 4'-0", D=3'-1 3/4" FOR TOPMOST HOOP IN SHAFT; EACH LOWER HOOP IN SUCCESSION INCREASES 3 1/2" IN DIAMETER TO A MAXIMUM OF 4'-0" IN THE VERTICAL PORTION OF THE SHAFT.

NOTES:

- IF "H" IS LESS THAN 1'-6", W=2'-0"
IF "H" IS BETWEEN 1'-6" AND 2'-6", W=2'-6"
IF "H" IS 2'-6" OR MORE, W=3'-0"
IF "H" IS MORE THAN 4'-0 1/2", BRING WALLS VERTICALLY TO 4'-0 1/2" BELOW SURFACE AND TAPER FROM 3'-0" TO 2'-0" AS SHOWN.
- THIS STRUCTURE SHALL BE USED WITH STANDARD PRESSURE MANHOLE FRAME AND COVER. SEE STD. DWG. 499. IT MAY BE USED FOR HYDROSTATIC HEADS UP TO 25' ABOVE THE STEEL PLATE.
- CONCRETE SHALL BE CLASS "A".



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



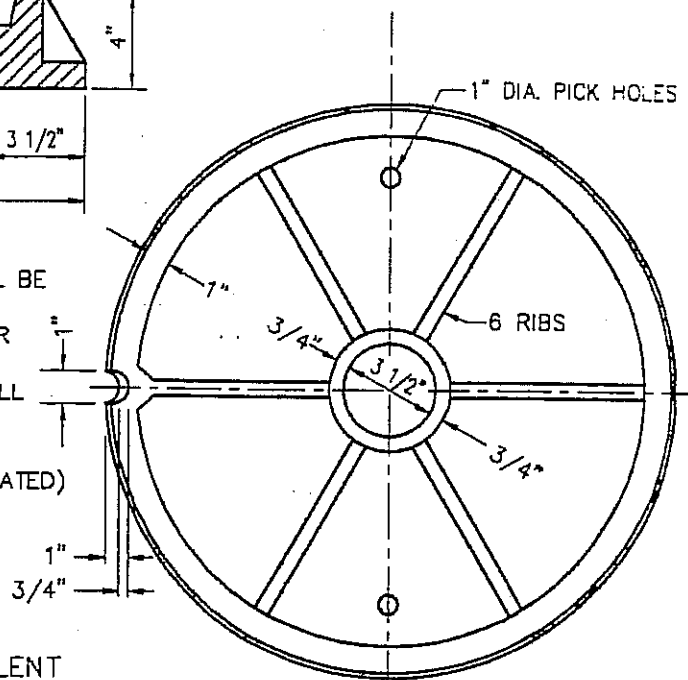
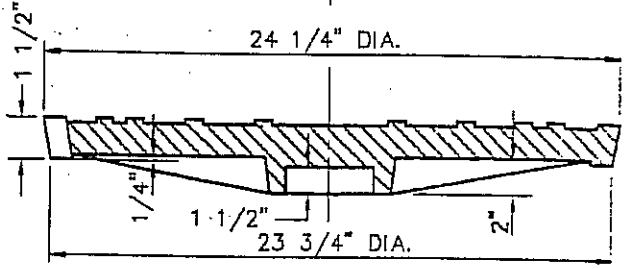
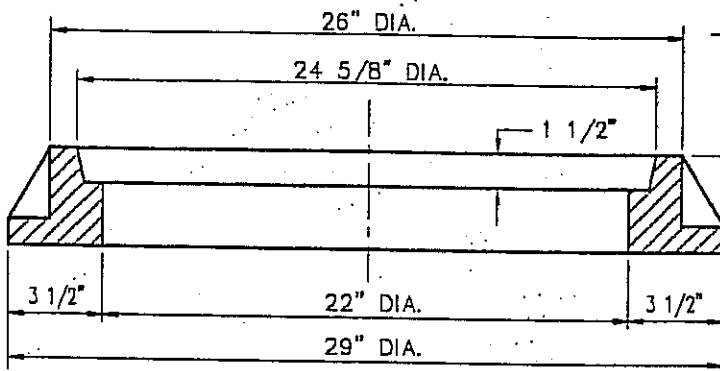
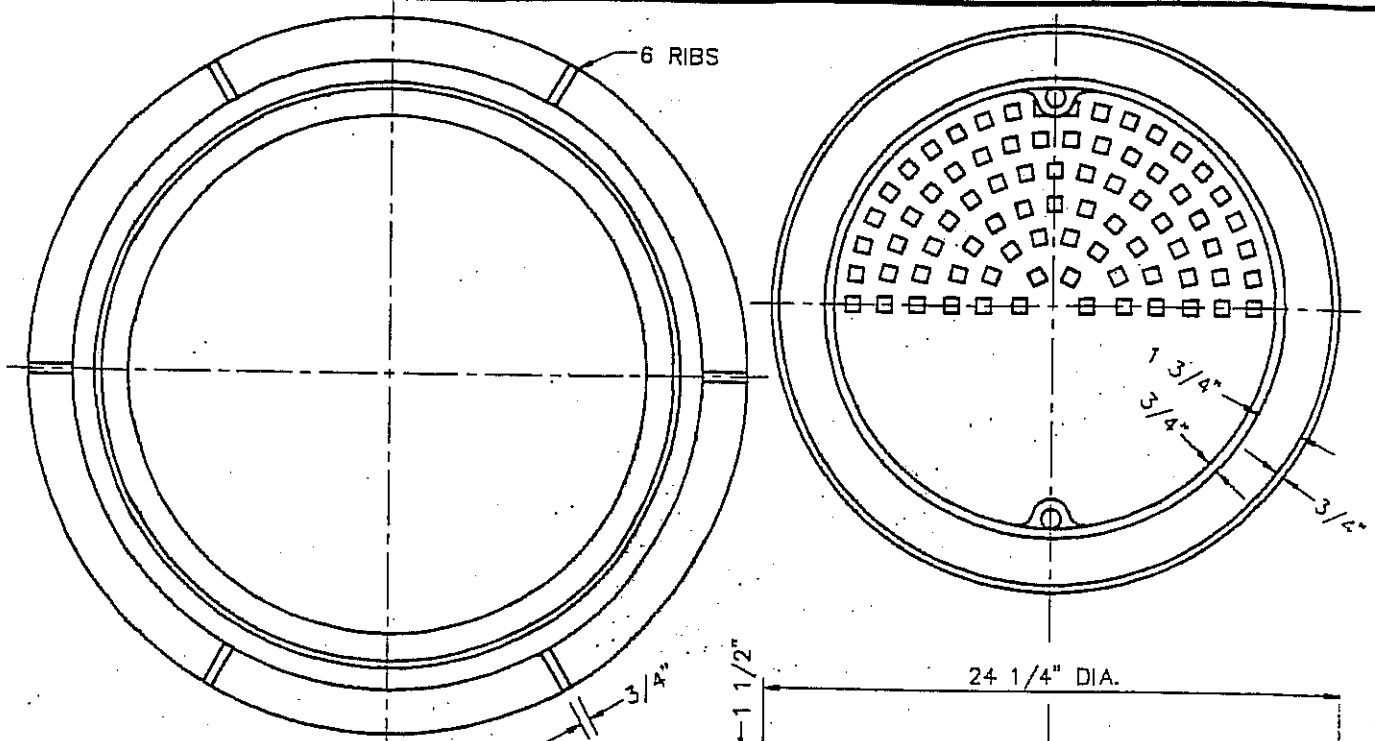
Town of
Yucca Valley

STANDARD PRESSURE
MANHOLE SHAFT

REVISION

BY DATE

STANDARD DRAWING NO. 495

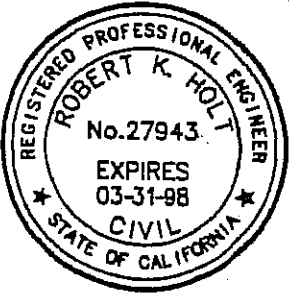


NOTES:

1. SEATS OF FRAME AND COVER SHALL BE MACHINED TO PREVENT NOISE
2. TOTAL WEIGHT OF FRAME AND COVER APPROX. 380 LBS.
3. MINIMUM CLEAR OPENING 22" DIA. ALL OTHER DIMENSIONS ARE NOMINAL

MATERIAL: CAST IRON (ASPHALT COATED)

ALHAMBRA A-1310 OR EQUIVALENT



APPROVED:

_____ DATE _____

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943

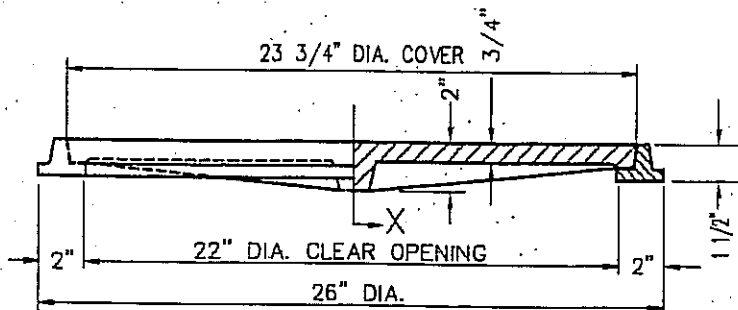
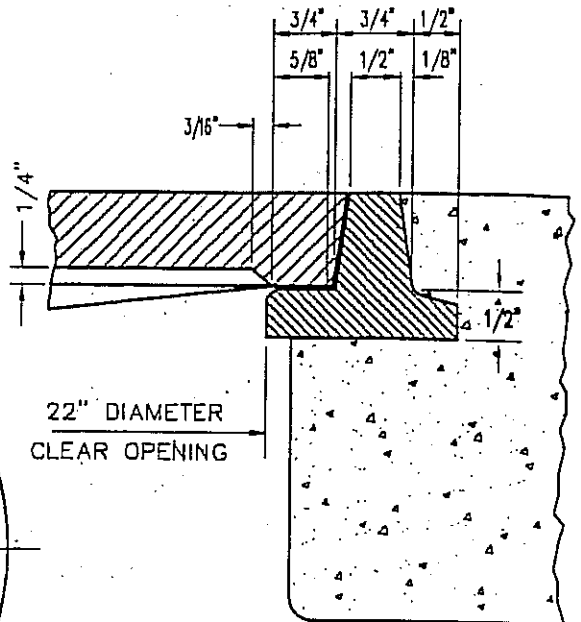
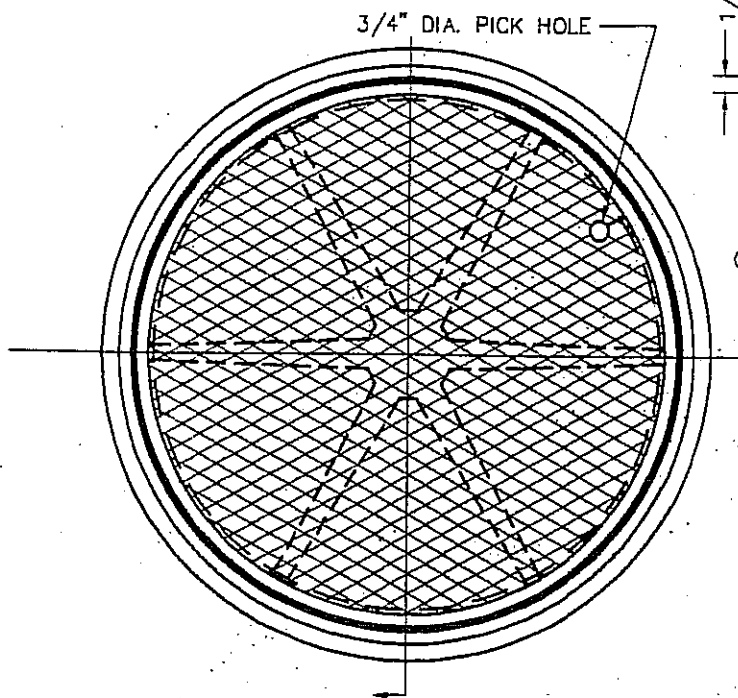


Town of
Yucca Valley

MANHOLE FRAME &
COVER - ROADWAY

STANDARD DRAWING NO. 496

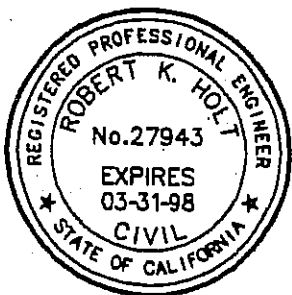
REVISION	BY	DATE



MATERIAL: CAST IRON (ASPHALT COATED OR GALVANIZED)

NOTES:

1. SEATS OF FRAME AND COVER SHALL BE MACHINED TO PREVENT NOISE.
2. TOTAL WEIGHT OF FRAME AND COVER APPROX. 130 LBS.
3. MINIMUM CLEAR OPENING 22" DIAMETER. ALL OTHER DIMENSIONS ARE NOMINAL.



ALHAMBRA A-1530 OR EQUIVALENT

APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



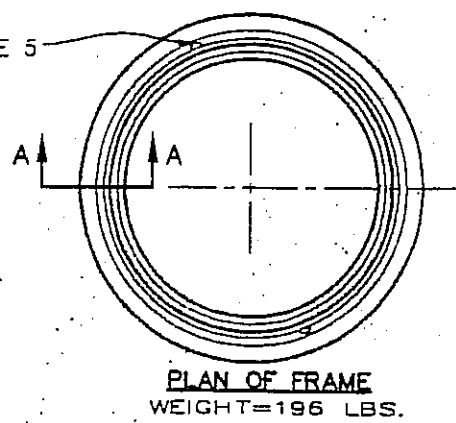
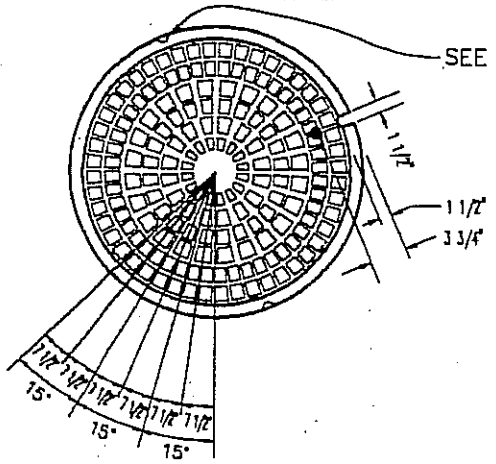
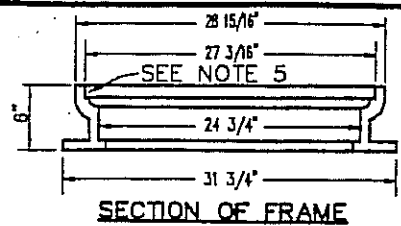
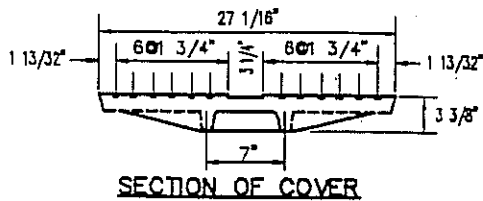
Town of
Yucca Valley

MANHOLE FRAME &
COVER - PARKWAY

REVISION

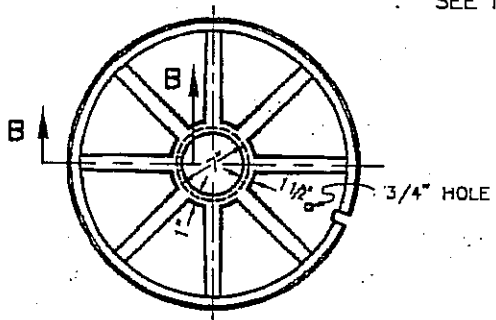
BY DATE

STANDARD DRAWING NO. 497

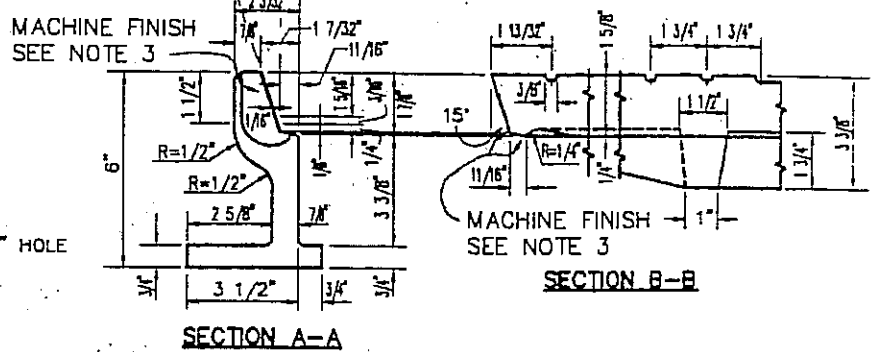


TOP PLAN OF COVER
WEIGHT=262 LBS.

PLAN OF FRAME
WEIGHT=196 LBS.



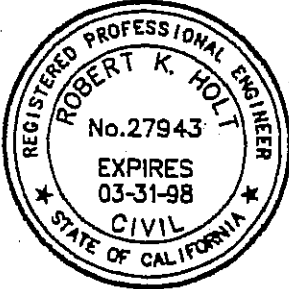
BOTTOM PLAN
OF COVER



SECTION A-A

NOTES:

1. MANHOLE FRAME AND COVER SHALL BE MADE OF GRAY CAST IRON CONFORMING TO THE LATEST A.S.T.M. STANDARD A48, CLASS 30 OR BETTER.
2. ALL PARTS OF THE MANHOLE FRAME AND COVER EXCEPT MACHINED SURFACES SHALL BE COATED WITH ASPHALTUM PAINT.
3. MANHOLE FRAME AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS BEFORE DELIVERY. THE COVER SHALL FIT THE FRAME SNUGLY BUT NOT TIGHTLY.
4. THE WEIGHTS OF THE FRAME AND COVER SHALL NOT VARY MORE THAN TWO PERCENT FROM THOSE GIVEN HEREON.
5. COVERS FOR MANHOLES LOCATED IN RIGHT OF WAY, EASEMENTS, ALLEYS, PARKWAYS, AND ALL OTHER PLACES EXCEPT PAVED STREETS SHALL BE PROVIDED WITH ALLEN SOCKET SET SCREW LOCKING DEVICES. THE CONTRACTOR SHALL DRILL AND TAP TWO HOLES TO A DEPTH OF 1" AT 90° TO PICK HOLE AND INSTALL 3/4"x3/4" ALLEN SOCKET SET SCREWS THEREIN.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943



Town of
Yucca Valley

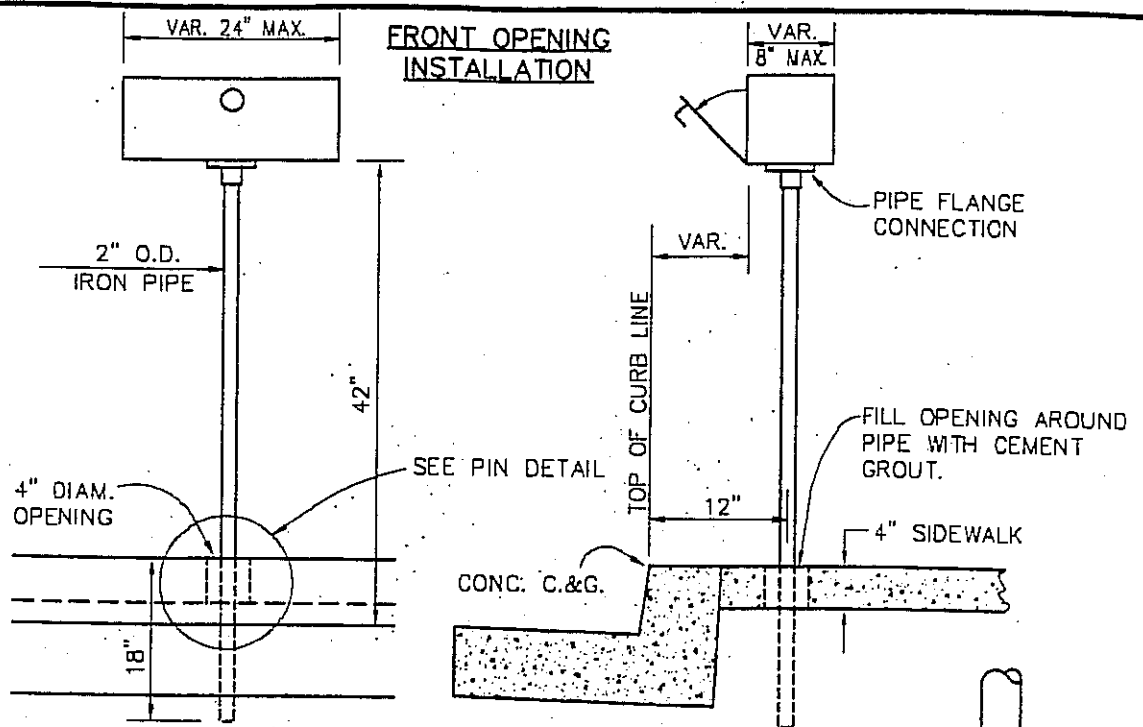
MANHOLE FRAME & COVER
NON-ROCKING

STANDARD DRAWING NO. 498

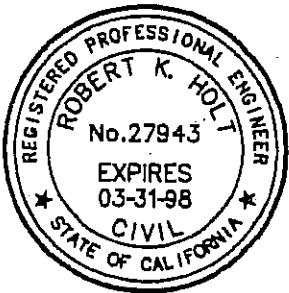
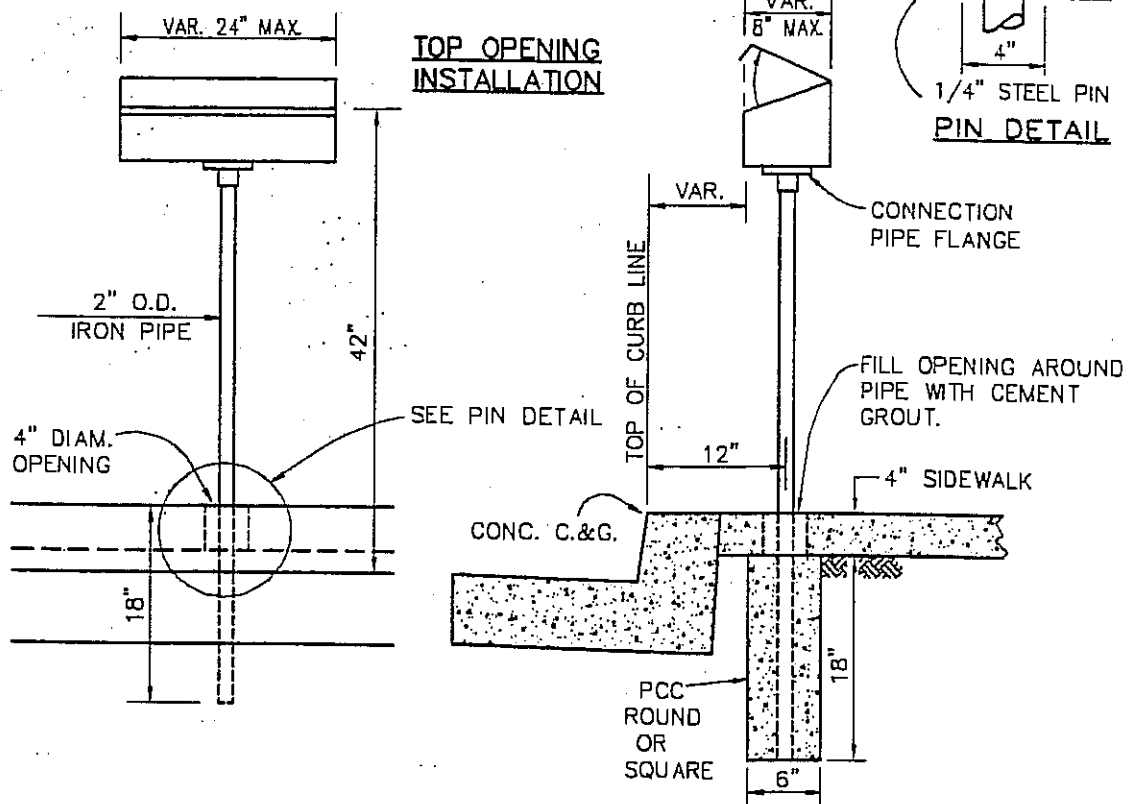
REVISION	BY	DATE

Section 5 – Miscellaneous Details

<u>Drawing No.</u>	<u>Description</u>
500	Single Mailbox Installation
501	Multiple Mailbox Installation for New Sidewalk
501A	Multiple Mailbox Installation for Existing Sidewalk
510	Metal Beam Guardrail
511	Metal Plate Guardrail
520	Traffic Safety Markers
521	Post with Reflector
522	End of Street Temporary Pavement
522A	Barricade Rural Area
523	Street Marker Post Installation
530	Standard Trash Enclosure
550	Pipe Swing Gate
M1	Copperweld Monument
M2	Sectional Monuments
M3	Centerline Ties



NOTE: END OPENING MAILBOX NOT PERMITTED.
FACE OF MAILBOX SHALL NOT EXTEND
PAST TOP OF CURB LINE.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

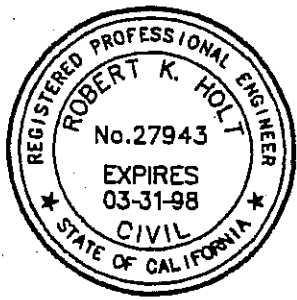
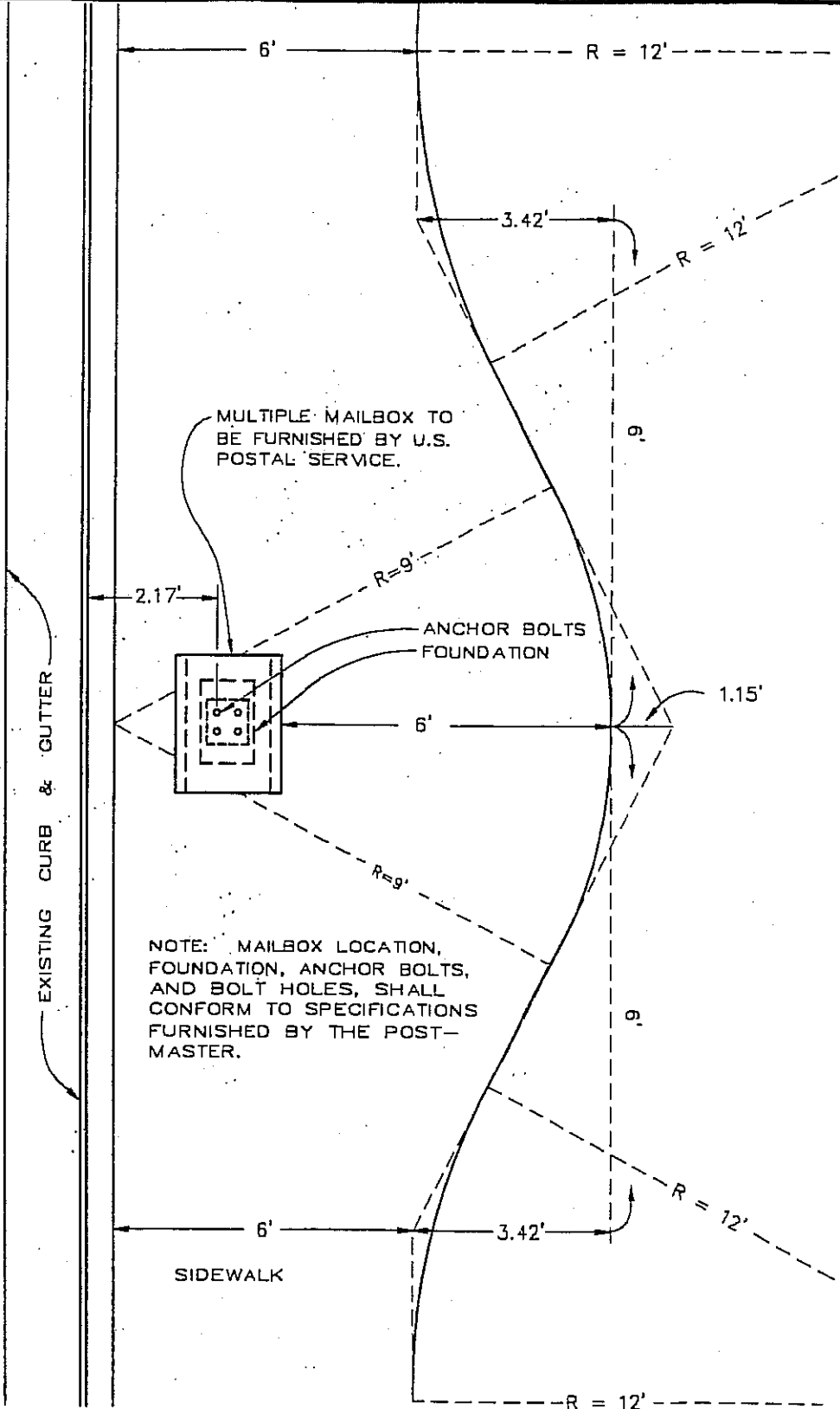


Town of
Yucca Valley

SINGLE MAILBOX
INSTALLATION

REVISION BY DATE

STANDARD DRAWING NO. 500



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

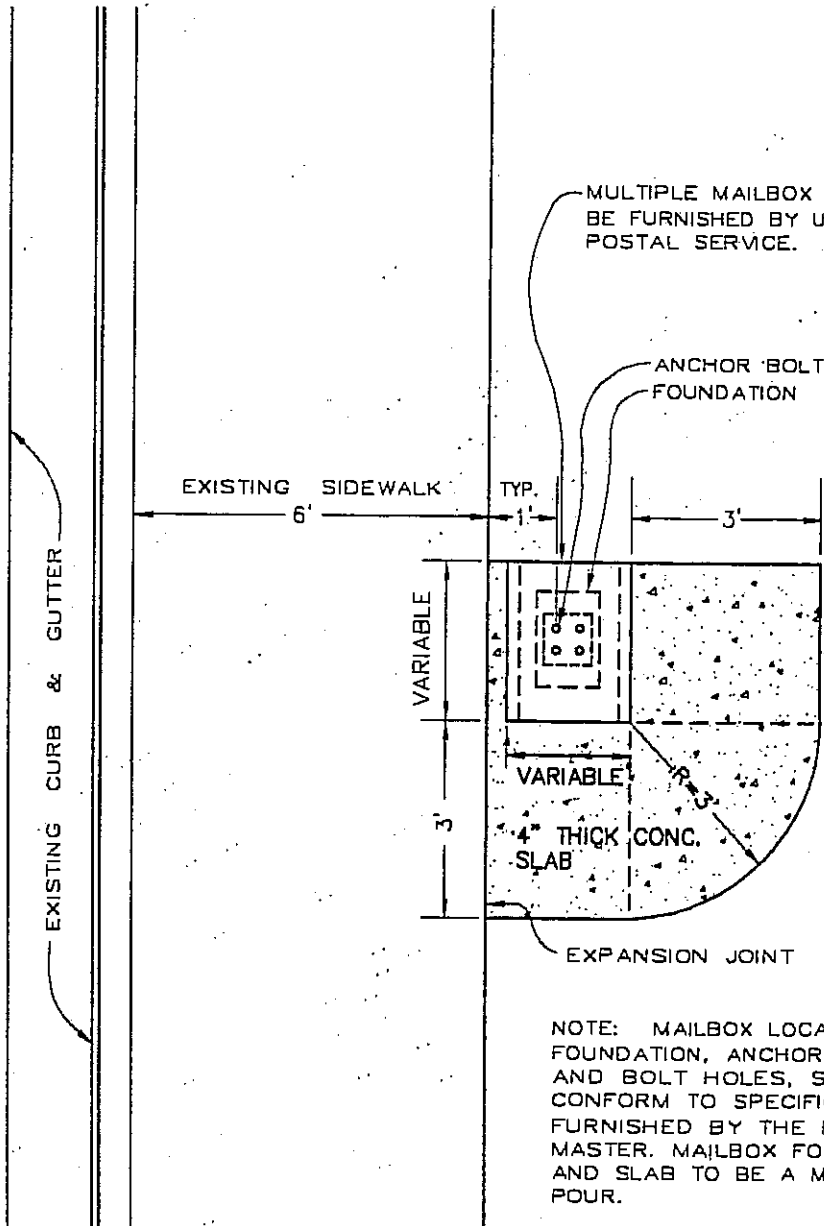
REVISION	BY	DATE



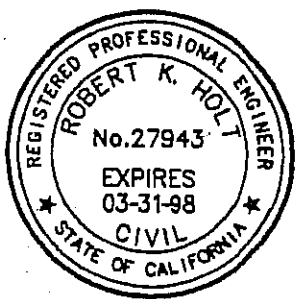
Town of
Yucca Valley

MULTIPLE MAILBOX INSTALLATION
 FOR
 NEW SIDEWALK

STANDARD DRAWING NO. 501



NOTE: MAILBOX LOCATION, FOUNDATION, ANCHOR BOLTS, AND BOLT HOLES, SHALL CONFORM TO SPECIFICATIONS FURNISHED BY THE POSTMASTER. MAILBOX FOUNDATION AND SLAB TO BE A MONOLITHIC POUR.

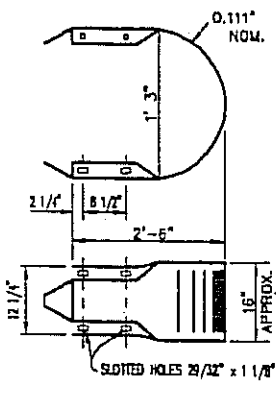


APPROVED:	DATE
APPROVED: TOWN ENGINEER <i>Robert K. Holt</i>	R.C.E. 27943
REVISION	BY DATE

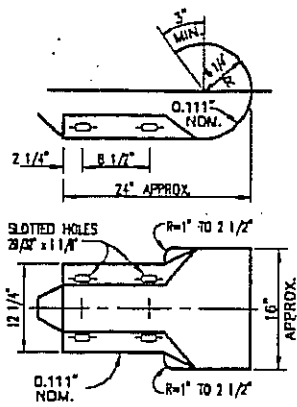


Town of
Yucca Valley

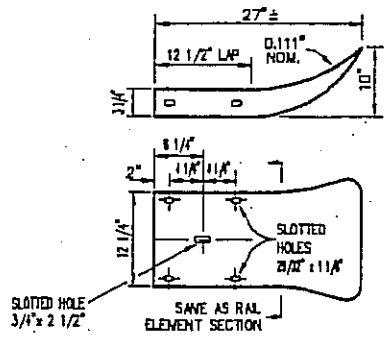
MULTIPLE MAILBOX INSTALLATION
FOR
EXISTING SIDEWALK
STANDARD DRAWING NO. 501A



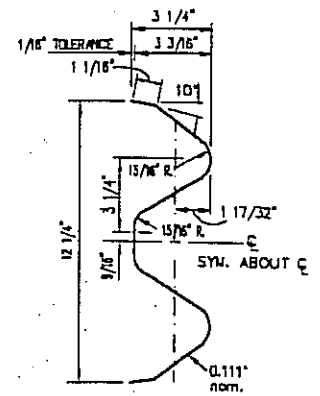
RETURN SECTION



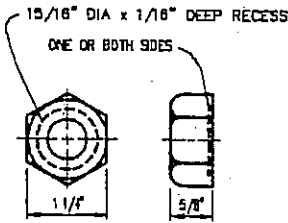
TERMINAL SECTION TYPE "A"



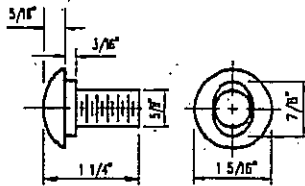
TERMINAL SECTION TYPE "B"



SECTION THRU RAIL ELEMENT



5/8" RECESS NUT

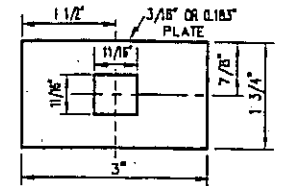


5/8" BUTTON HEAD BOLT

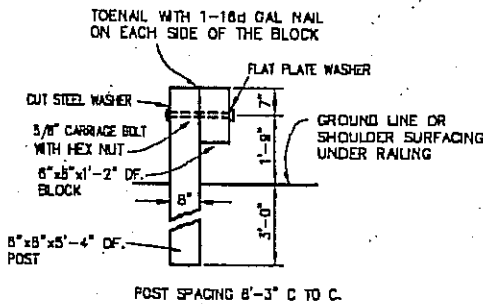


5/8" x 1 1/4" BUTTON HEAD OVAL SHOULDER BOLTS WITH 1/4" RECESSED HEX NUTS TOTAL 8 PER SPLICE AND 4 PER TERMINAL SECTION. LAP IN DIRECTION OF TRAFFIC.

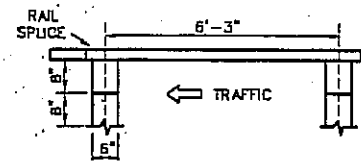
RAIL SPLICE



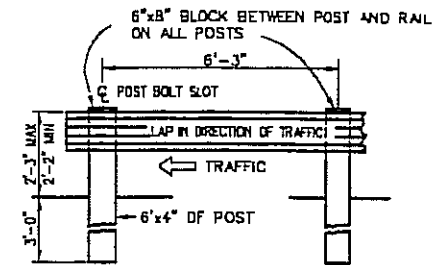
FLAT PLATE WASHER



LINE POSTS



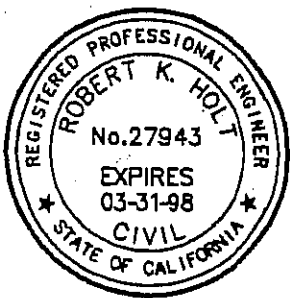
PLAN



ELEVATION

NOTES:

- 1 CENTER TO CENTER OF THE POSTS SHALL BE 6'-3" UNLESS SHOWN OTHERWISE.
- 2 BACKFILL IN POST HOLES TO BE COMPACTED TO ORIGINAL DENSITY OF SOIL.
- 3 EQUIVALENT DESIGN MAY BE ACCEPTABLE.
- 4 MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF CALIFORNIA, STANDARD SPECIFICATION PLAN A77-CW.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

REVISION	BY	DATE

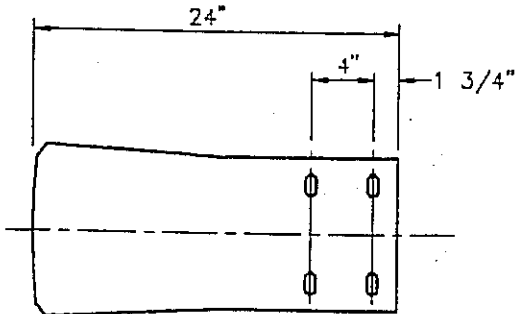
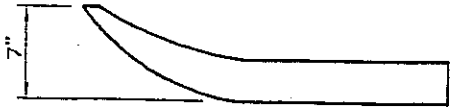
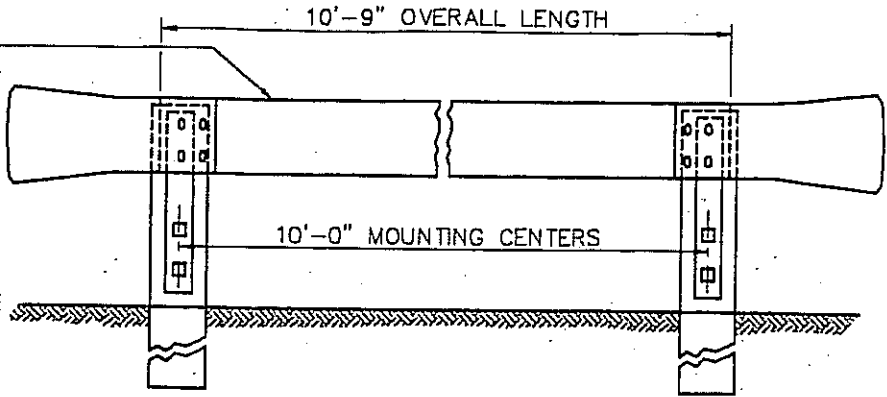


Town of Yucca Valley

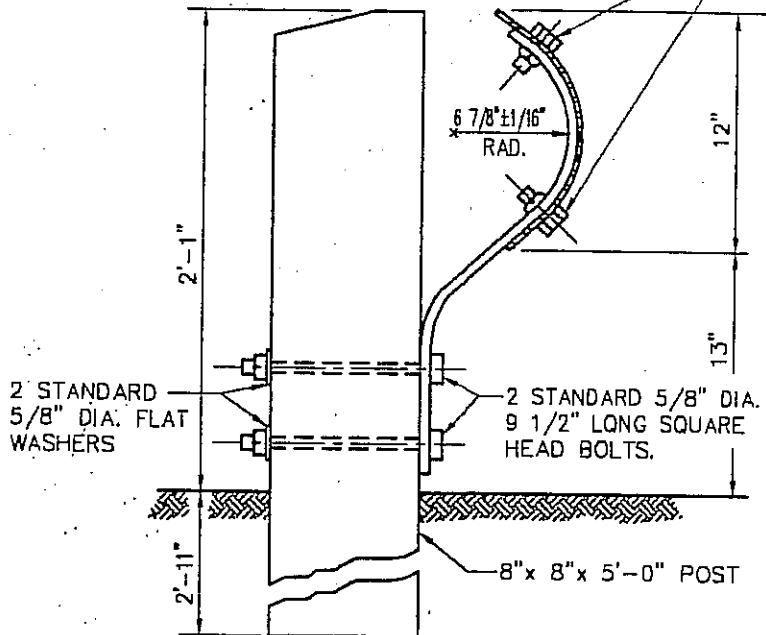
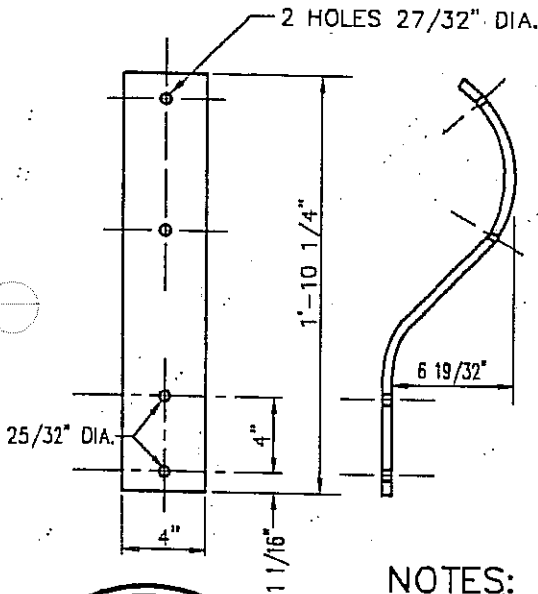
METAL BEAM GUARDRAIL

STANDARD DRAWING NO. 510

SIZE: 10 GAGE (.1345)
 12" x 129" OR 159"
 129" = 73.4 LBS.
 159" = 90.7 LBS.

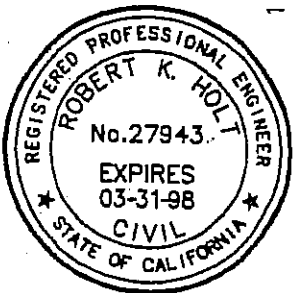


4-SPECIAL 3/4" DIA. 1 5/8" LONG
 BUTTON HEXAGONAL HEAD
 BOLTS AND SQUARE NUTS



NOTES:

1. POSTS ARE TO BE SET IN SUCH A POSITION THAT THE TOP OF THE GUARD RAIL SHALL BE LEVEL WITH THE TOP OF THE POSTS.
2. BACKFILL IN POST HOLES TO BE COMPACTED TO ORIGINAL DENSITY OF SOIL.
3. EQUIVALENT DESIGN MAY BE ACCEPTABLE.
4. MATERIAL AND CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF STATE OF CALIFORNIA STANDARD SPECIFICATIONS, UNLESS SHOWN OTHERWISE.



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



Town of
Yucca Valley

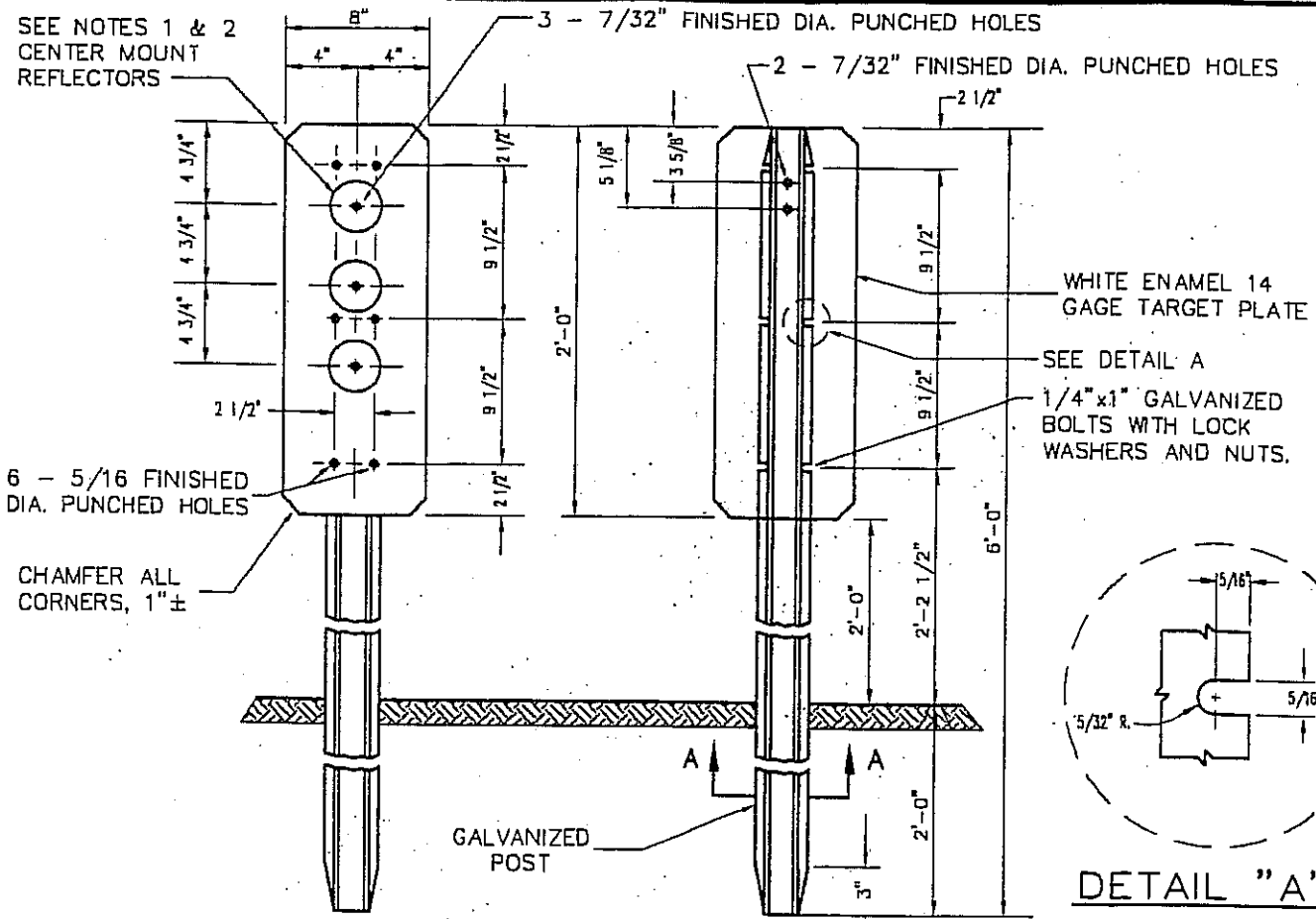
METAL PLATE
 GUARDRAIL

REVISION

BY DATE

STANDARD DRAWING NO. 511

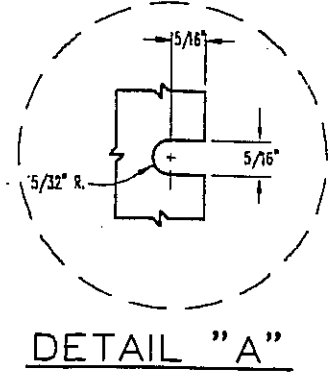
SEE NOTES 1 & 2
CENTER MOUNT
REFLECTORS



WHITE ENAMEL 14
GAGE TARGET PLATE

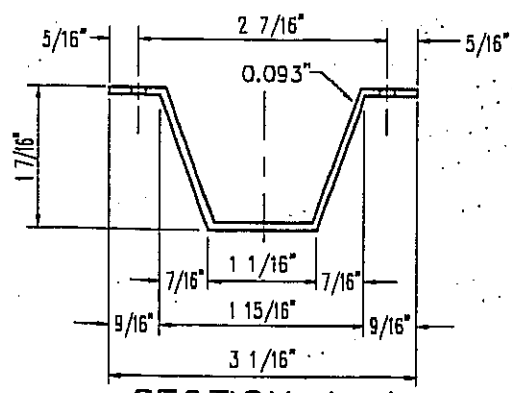
SEE DETAIL A

1/4" x 1" GALVANIZED
BOLTS WITH LOCK
WASHERS AND NUTS.

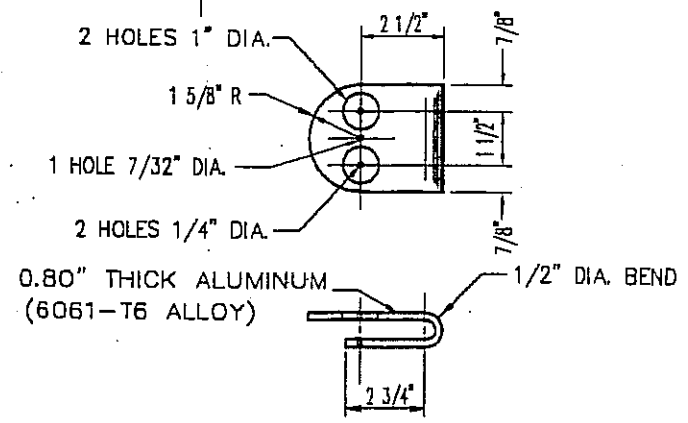


6 - 5/16 FINISHED
DIA. PUNCHED HOLES

CHAMFER ALL
CORNERS, 1"±



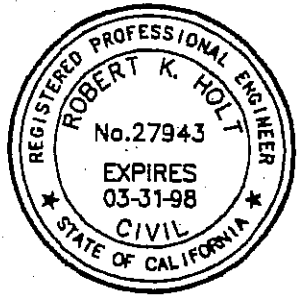
SECTION A-A



REAR MOUNT BRACKET

NOTES:

1. CLEARANCE MARKER (W-60R) THREE 3-1/4" WHITE CENTERMOUNT REFLECTORS.
2. GUIDE MARKERS ONE 3-1/4" WHITE CENTERMOUNT REFLECTOR.
3. REAR MOUNT REFLECTOR BRACKET SHALL BE USED ON CURVES. BRACKET SHALL BE ATTACHED WITH 3/16" BLIND ALUMINUM RIVETS AND USED TO MOUNT A 3" WHITE REFLECTOR.
4. ALL MATERIALS SHALL CONFORM TO STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
5. HOLE DIAMETERS APPLY TO DIMENSION AFTER ITEM IS PAINTED.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

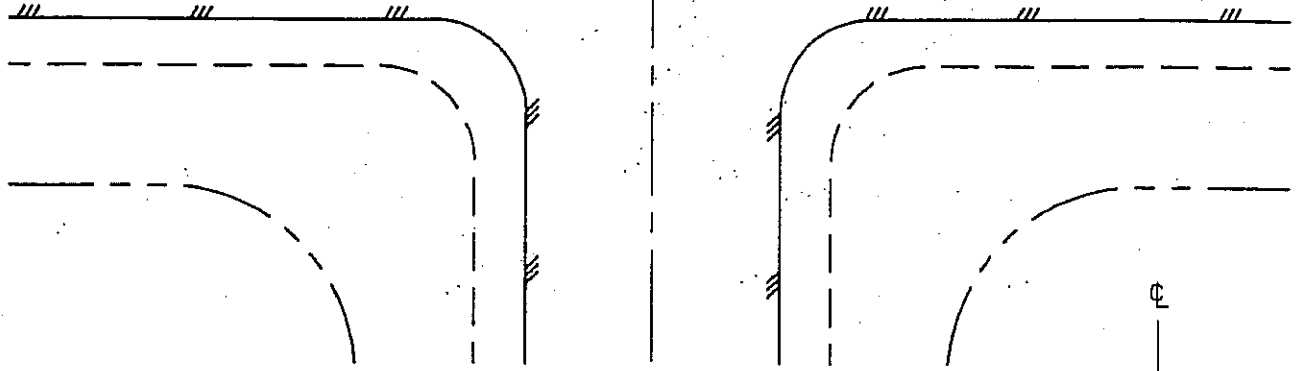
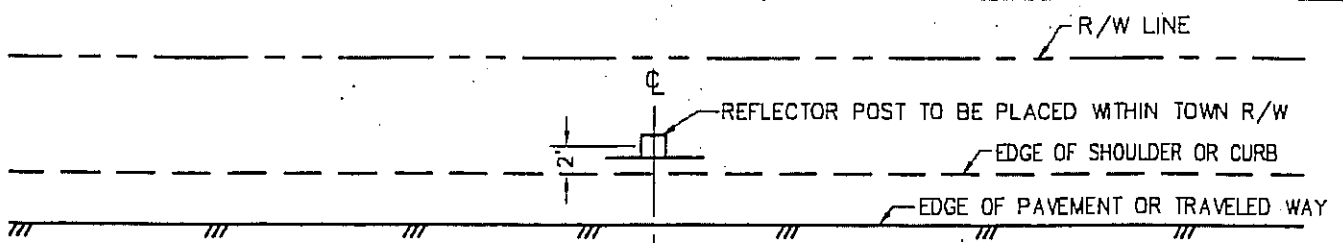
REVISION	BY	DATE



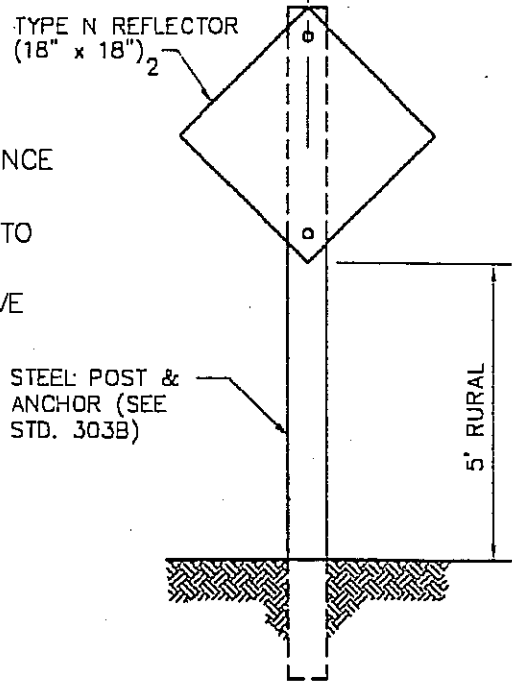
Town of
Yucca Valley

TRAFFIC SAFETY
MARKERS

STANDARD DRAWING NO. 520



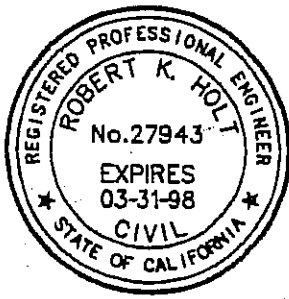
PLAN



ELEVATION

NOTES:

1. POSTS SHALL BE 2" x 2" SQUARE STEEL IN ACCORDANCE WITH STANDARD NO. 523.
2. MATERIALS AND TYPE N REFLECTOR SHALL CONFORM TO STATE OF CALIFORNIA STANDARD SPECIFICATIONS. TYPE N-4 SHALL BE YELLOW FHWA TYPE III REFLECTIVE SHEETING. TYPE N-5 SHALL BE RED FHWA TYPE III REFLECTIVE SHEETING.



APPROVED: _____ DATE _____

APPROVED: TOWN ENGINEER
Robert K. Holt R.C.E. 27943

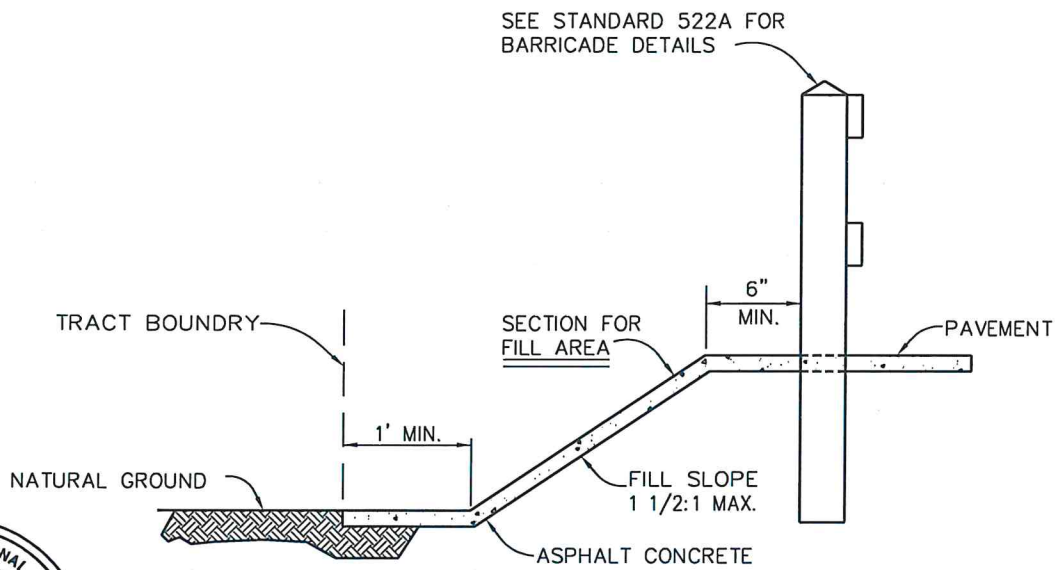
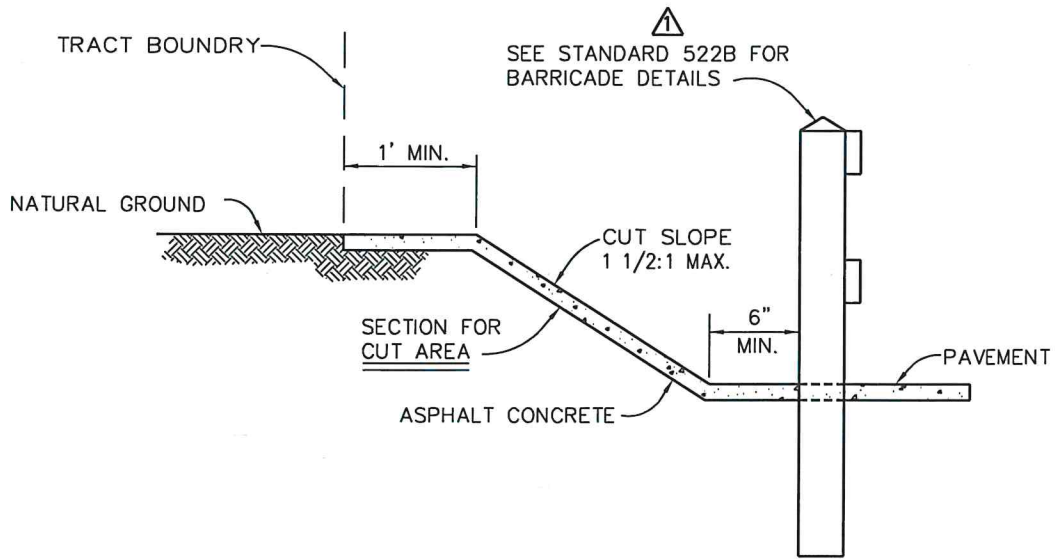


Town of
Yucca Valley

POST WITH
 REFLECTOR

STANDARD DRAWING NO. 521

REVISION	BY	DATE



NOTES:

1. ASPHALT CONCRETE SHALL BE MINIMUM 3 INCH THICKNESS ON CUT OR FILL AREA.

APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Chishta DATE *4/21/25*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

△ REVISED NOTE -N- 8/30/24

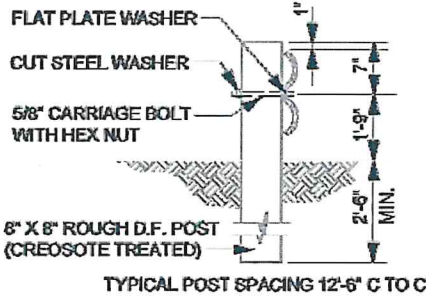
REVISION BY DATE



Town of Yucca Valley

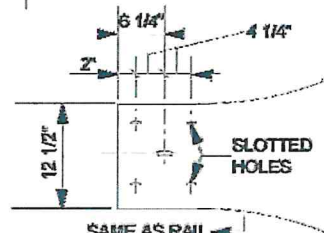
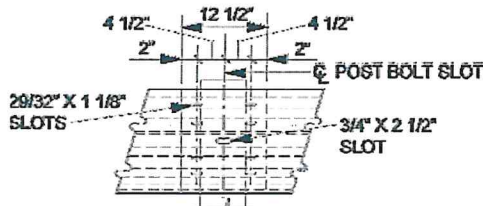
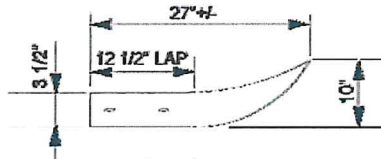
END OF STREET
TEMPORARY PAVEMENT

STANDARD DRAWING NO. 522



NOTES:

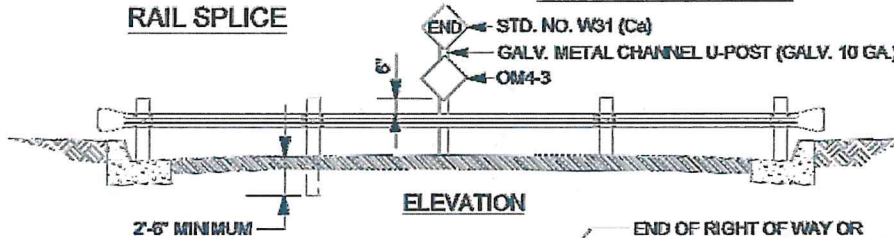
1. GUARD RAIL ELEMENT MAY BE EITHER STEEL OR ALUMINUM.
2. STEEL RAIL SHALL BE GALVANIZED PER ASTM DESIGNATION A-123.
3. STEEL RAIL THICKNESS SHALL BE MIN. 12 GAUGE.
4. ALUMINUM RAIL THICKNESS SHALL BE MIN. 0.105 IN.



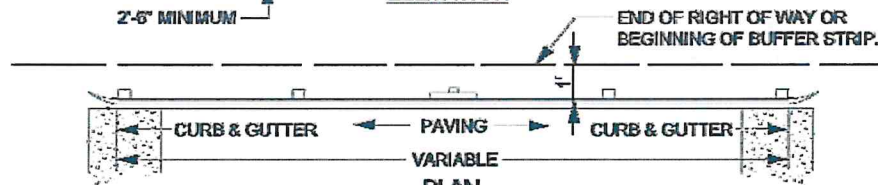
5/8" X 1 1/4" BUTTON HEAD OVAL SHOULDER BOLTS WITH 1 1/4" RECESSED HEX NUTS - TOTAL: 8 PER SPLICE AND 4 PER TERMINAL SECTION

TERMINAL SECTION

RAIL SPLICE



ELEVATION



NOT TO SCALE



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Crichton DATE *4/21/25*

APPROVED: TOWN ENGINEER

Noel Owsley R.C.E. 39827

REVISION *1* REVISED DETAIL -N- 8/30/24

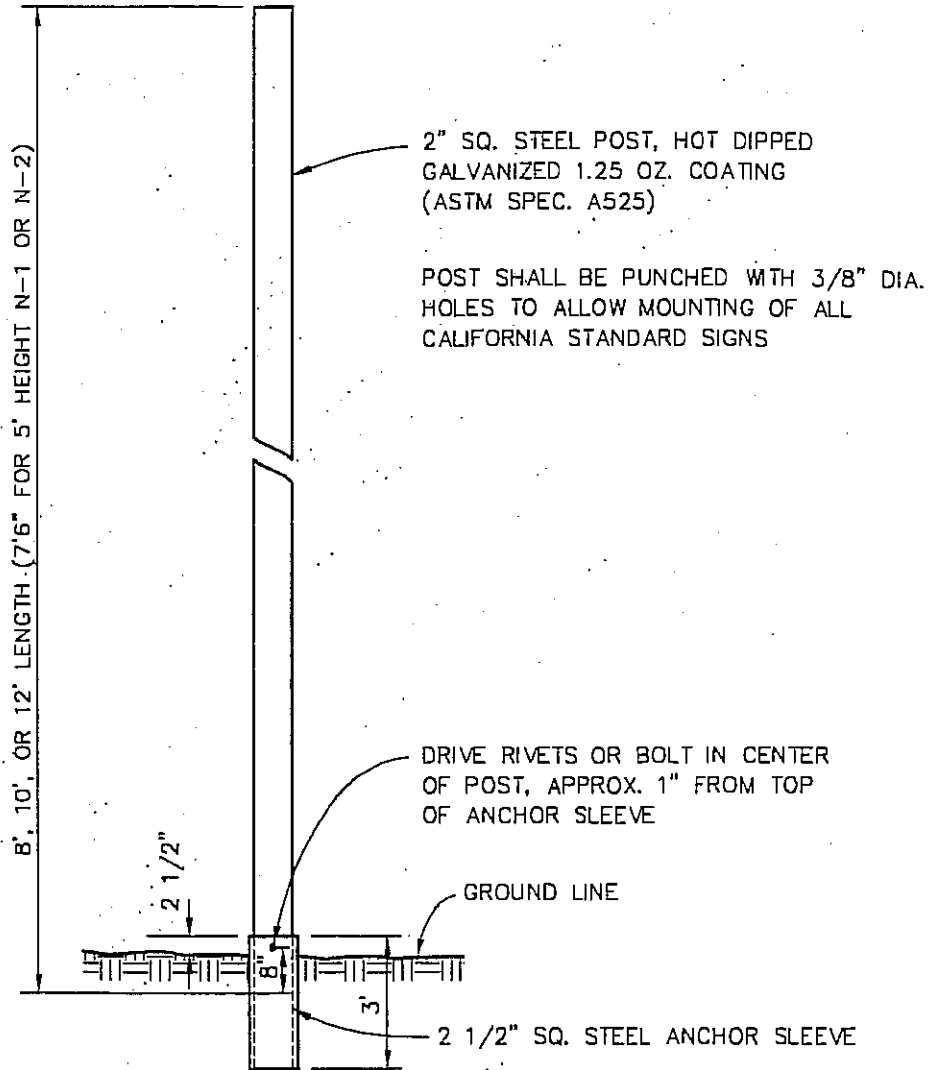
REVISION BY DATE



Town of
Yucca Valley

BARRICADE
RURAL AREA

STANDARD DRAWING NO. 522A



NOTES:

1. SEE STANDARD DRAWING NO. 521 FOR MARKER LOCATIONS.
2. POST SHALL BE 2" SQ. STEEL AS SHOWN AND STATED.
3. ANCHOR SLEEVE SHALL BE 2 1/2" SQ. STEEL HOT DIPPED GALVANIZED AFTER FABRICATION (ASTM SPEC. 1-123).



APPROVED:

DATE

APPROVED: TOWN ENGINEER

Robert K. Holt

R.C.E. 27943



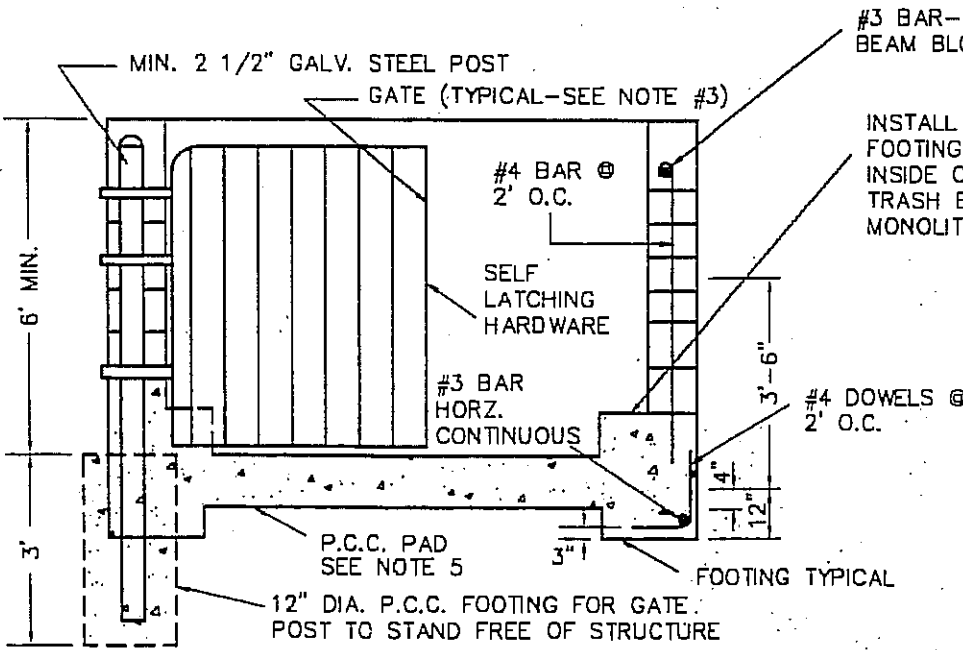
Town of
Yucca Valley

STREET MARKER
POST INSTALLATION

REVISION

BY DATE

STANDARD DRAWING NO. 523



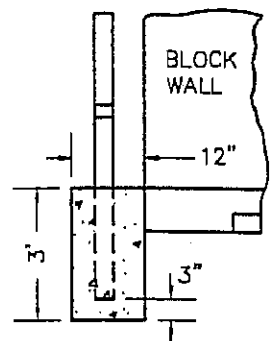
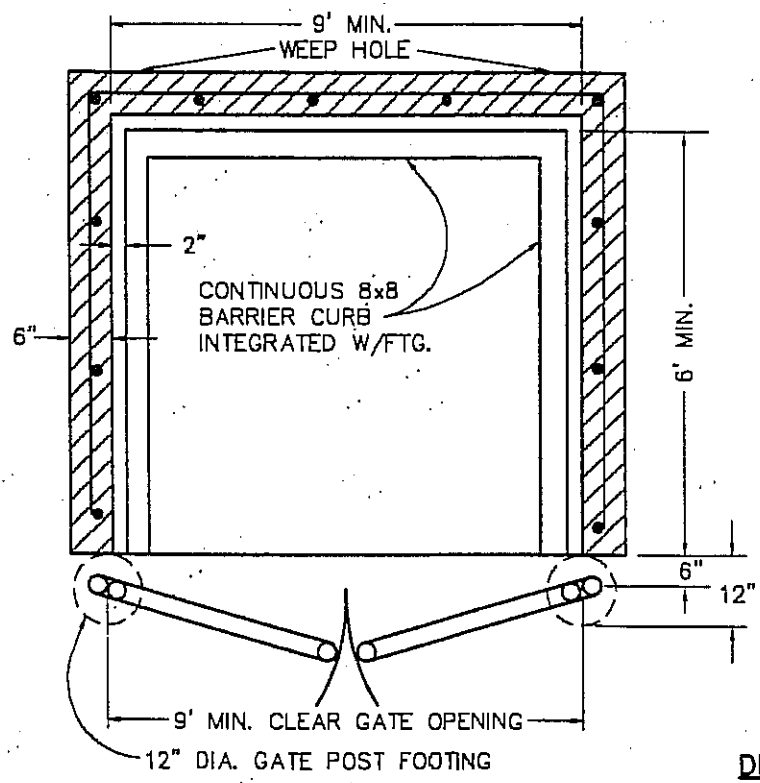
#3 BAR-TOP AND BOTTOM; USE BOND BEAM BLOCKS.

INSTALL (8x8 BARRIER CURB) WITH FOOTING COMPLETELY AROUND INSIDE OF ENCLOSURE TO ACT AS TRASH BIN BUMPER GUARD. POUR MONOLITHICALLY WITH FOOTING.

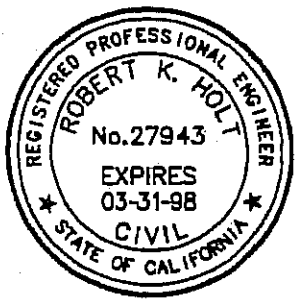
NOTES:

1. TRASH AREA TO BE LOCATED SO AS TO BE ACCESSIBLE TO BOTH DEPOSIT AND PICKUP. LOCATION TO BE APPROVED BY PLANNING DIVISION.
2. SIX INCH MASONRY BLOCK CONSTRUCTION WITH STANDARD STEEL REINFORCING RODS. FILL ALL CELLS WITH GROUT AND SMOOTH THE TOP WITH STEEL TROWEL FINISH.
3. METAL GATES WITH HEAVY DUTY HARDWARE (TYPICAL). METAL PANEL GATES SHALL TOTALLY OBSCURE THE TRASH BINS AND MUST BE ARCHITECTURALLY COMPATIBLE WITH THE PROJECT.
4. GATE POSTS SHALL BE MINIMUM 2-1/2" DIA. GALVANIZED STEEL SET IN CONCRETE TO STAND FREE OF THE ENCLOSURE STRUCTURE.
5. TOP OF PAD TO BE AT GROUND OR EDGE OF PAVING LEVEL.
6. FILL ALL CELLS WITH P.C.C. PEA GRAVEL GROUT.

FRONT ELEVATION VIEW



DETAIL - GATE POST FOOTING



PLAN VIEW

APPROVED:	DATE
APPROVED: TOWN ENGINEER <i>Robert K. Holt</i>	R.C.E. 27943
REVISION	BY DATE



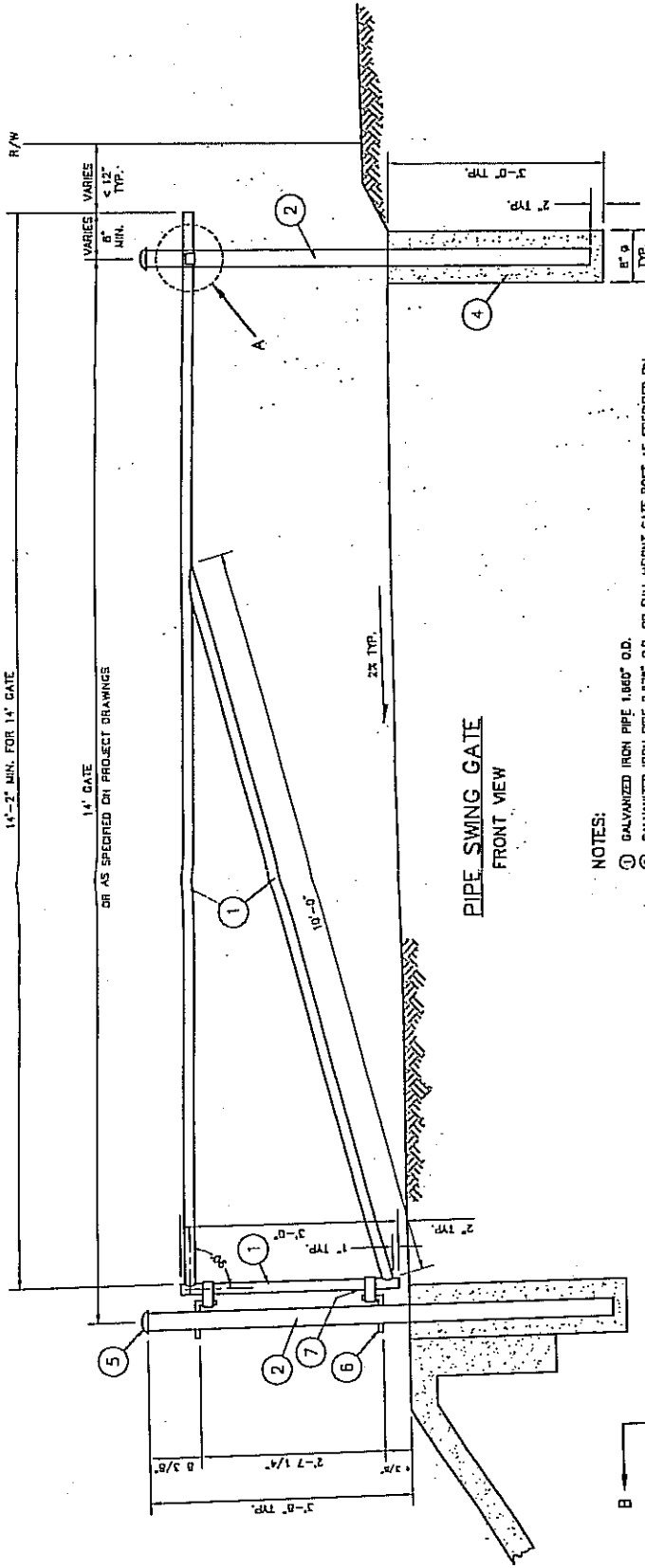
Town of
Yucca Valley

STANDARD TRASH ENCLOSURE

STANDARD DRAWING NO. 530

14'-2" MIN. FOR 14' GATE

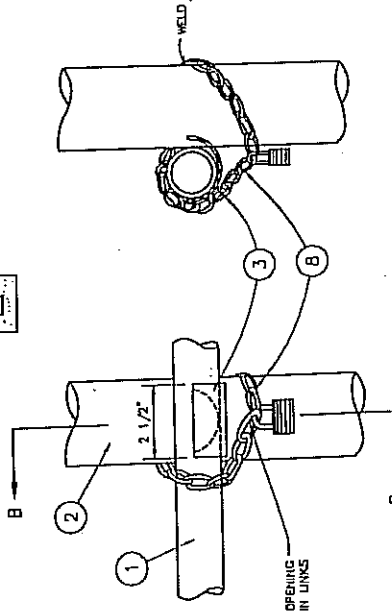
14' GATE
OR AS SPECIFIED ON PROJECT DRAWINGS



PIPE SWING GATE
FRONT VIEW

NOTES:

- 1 GALVANIZED IRON PIPE 1.660" O.D.
- 2 GALVANIZED IRON PIPE 2.875" O.D. OR FULL HEIGHT GATE POST AS SPECIFIED ON PROJECT DRAWINGS.
- 3 GATE REST, ONE-HALF OF GALVANIZED IRON PIPE 2.375" O.D.; GRIND TO FIT VERTICAL POST, FIELD WELD.
- 4 CLASS "B" CONCRETE.
- 5 POSTS ANCHORED IN CONCRETE SHALL HAVE CAPS.
- 6 HINGE BOLTS 5/8", WELD THREADED END AFTER INSTALLATION.
- 7 STANDARD HINGE CLAMPS, WELD THREADED END OF BOLTS AFTER INSTALLATION.
- 8 3/8" GALVANIZED CHAIN, FELD WELD ONE LINK TO VERTICAL POST, PROVIDE OPENING IN LINKS ONE INCH AS MINIMUM. CHAIN SHALL BE OF SUFFICIENT LENGTH TO ENCLOSE HORIZONTAL PIPE.
- 9 ENDS OF PIPES TO BE JOINED SHALL BE GRINDING TO FIT NEATLY BEFORE WELDING.
- 10 MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE APPLICABLE PORTION OF SECTIONS 200-6, 210-3 AND 304-3 OF "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", LATEST EDITION.



DETAIL A

SECTION B-B

APPROVED:



DATE

TOWN ENGINEER

R.C.E. 27943

REVISION

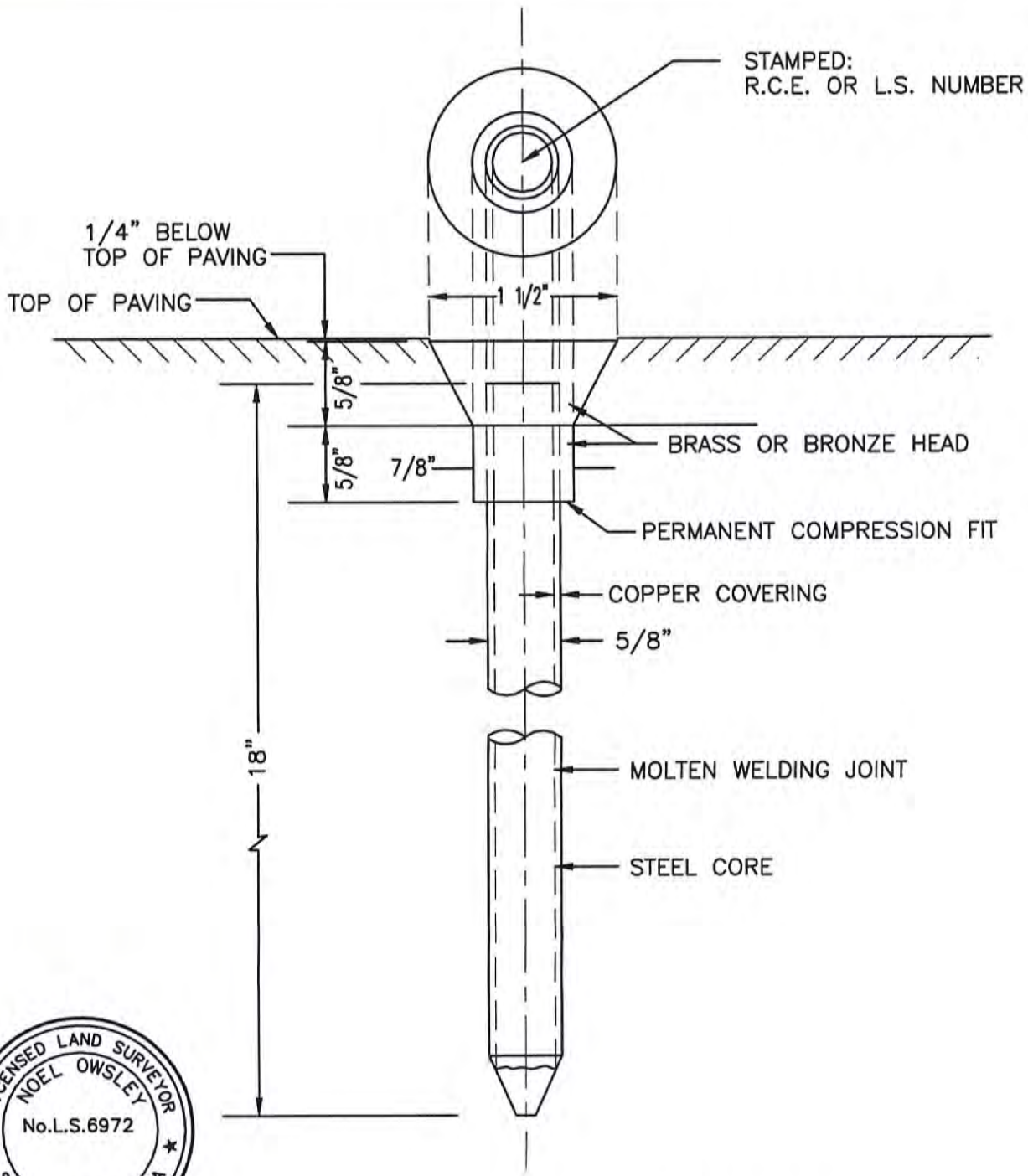
BY DATE



Town of
Yucca Valley

PIPE
SWING GATE

STANDARD DRAWING NO. 550



APPROVED: Alex Bishka DATE 6/29/16

APPROVED: TOWN SURVEYOR Noel Owsley L.S. 6972

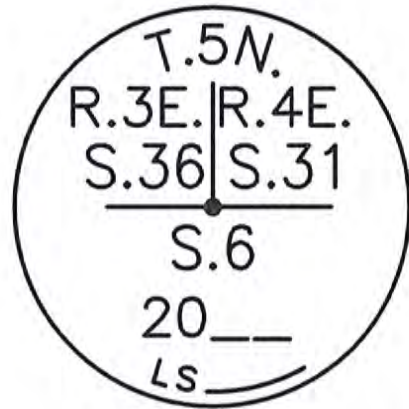
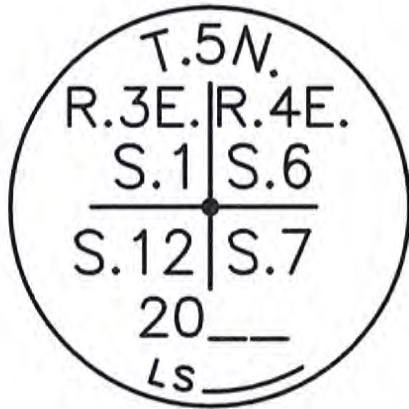


Town of
Yucca Valley

COPPERWELD MONUMENT

STANDARD DRAWING NO. M1

REVISION	BY	DATE



APPROVED: Alex Oishi DATE 6/29/16

APPROVED: TOWN SURVEYOR
Noel Owsley L.S. 6972



Town of
Yucca Valley

SECTIONAL MONUMENTS

STANDARD DRAWING NO. M2

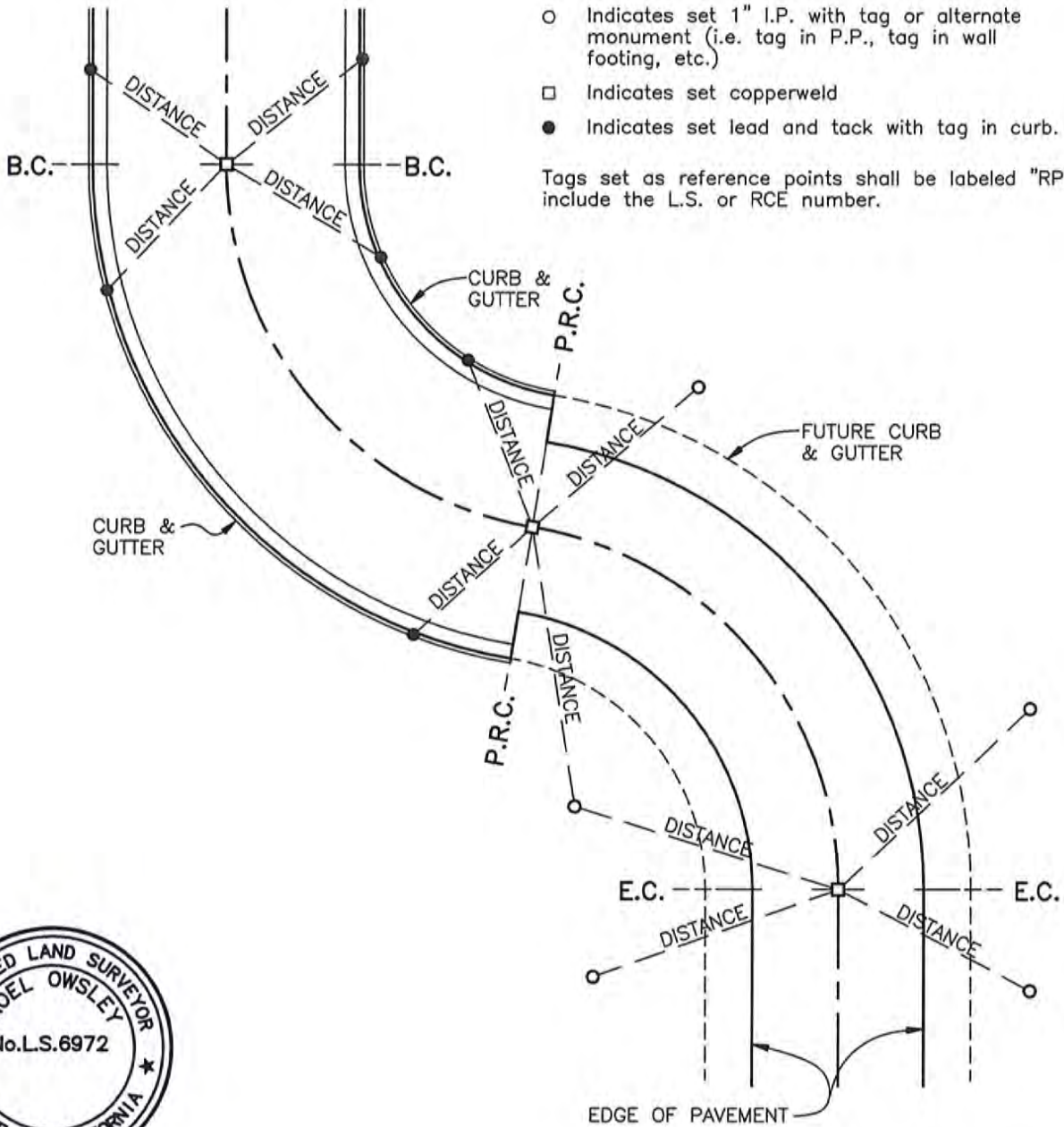
REVISION	BY	DATE

NOTES:

On curves where the P.O. falls outside of the paved section or curbed section, monuments may be set and tied out on semi-tangents in lieu of B.C., E.C. a Mid-point being tied out. These monuments will be set within traveled way.

- Indicates set 1" I.P. with tag or alternate monument (i.e. tag in P.P., tag in wall footing, etc.)
- Indicates set copperweld
- Indicates set lead and tack with tag in curb.

Tags set as reference points shall be labeled "RP" and include the L.S. or RCE number.



APPROVED:

Alex Oishi DATE *6/26/16*

APPROVED: TOWN SURVEYOR

Noel Owsley L.S. 6972



Town of
Yucca Valley

CENTERLINE TIES

STANDARD DRAWING NO. M3

REVISION

BY DATE