## SECTION X
### STANDARD DRAWINGS

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<td>Quick Coupling Valve</td>
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</table>

X - 1
I-6  Gate Valve (3" and Smaller)
I-7  Backflow Preventor - Inside Enclosure
I-8  Tree Well Bubbler
I-9  Shrub Head Assembly
I-10 12" Pop-up Shrub Head (Side Gated)
I-11 12" Pop-up Shrub Head (Bottom Fed)
I-12 Lawn Head Assembly
I-13 Lawn Rotor Head (Large)
I-14 General Ditching
I-15 Air and Pressure Relief Valve
I-16 Automatic Controller (Indoors)

M-1  Barricade - Type III
M-3.1 6' Reinforced Concrete Blockwall
M-3.2 Blockwall Detail (Cantilever)
M-4  Drainage Basin Fencing & Gate
M-5.1 Standard street Name Sign, Type A Bracket
M-5.2 Standard street Name Sign, Block Number Plate
M-5.3 Standard Street Name Sign, Specifications,
M-6.1 Backfill and A. C. Repair for Trenches Across Street
M-6.2 Backfill and A. C. Repair for Trenches Along Street
M-7.1 Sample Title Sheet, Dimensions and Sizes
M-7.2 Sample Title Sheet, Legend
M-8.1 Symbols and Abbreviations, Sheet 1
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P-1.1 Approved Plant Material - Tree List
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P-2.1 Approved Plant Material - Hardy Large Shrubs
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P-3  Approved plant Material - Hardy Perennials and Sub Shrubs for Color Accents
P-4  Approved plant Material - Hardy Ground Covers
P-5  Approved Plant Material - Hardy Vines
P-6  Approved Plant Material - Desert Plants

X-2
<table>
<thead>
<tr>
<th>Standard No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>S-1.1</td>
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<td>S-3.1</td>
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</tr>
<tr>
<td>S-4</td>
<td>Survey Monument</td>
</tr>
</tbody>
</table>
NOTE: All Driveway widths and locations shall be per the approved Plot Plan

PLAN

NOTE: Score Lines perpendicular to the curb should have a maximum spacing of 8' and correspond with those of the adjacent walk.

SECTION "A-A"
8" CURB FACE

SECTION "A-A"
6" CURB FACE

Use this standard when Sidewalk is absent or adjacent to the curb. When Sidewalk is at the property line use Std. C-3.1

CITY OF PALMDALE...

Residential Driveway

Approved

Std. No.

C-1

Revised 3/22/00

1-9-91
CITY OF PALMDALE...

Industrial & Commercial Driveway

NOTES:
1. Apply Light Broom Finish To Surface At A Right Angle To Face Of Curb. Broom Finish Gutter Parallel To Street.
2. All Edges Shall Have 1/2" Radius.
3. Depress Back Of Driveway 2".
4. As A Reinforcement Alternative, 6" x 6" x 10 ps. WWM may be substituted.

DATA TABLE

<table>
<thead>
<tr>
<th>WIDTH OF SIDEWALK</th>
<th>DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0'</td>
<td>3.30'</td>
</tr>
<tr>
<td>7.0'</td>
<td>4.80'</td>
</tr>
</tbody>
</table>

Driveway Section

2" Depress

Varies

\[ 4 @ 24'' O.C. \]

\[ 1'' Lip (Max) \]

Subgrade (Mechanically Compacted To 90%)

\[ 6'' Class II A.B. Cushion (Mechanically Compacted To 95%) \]

Exist. Sidewalk

\[ 4 @ 4'' O.C. \]

2" Temp. Paving (Curbback)

Exist. AC

DVeform To Existing
NOTE: Score Lines perpendicular to the curb should have a maximum spacing of 8' and correspond with those of the adjacent walk.

SECTION "A - A"
8' CURB FACE

NOTE: All Driveway widths and locations shall be per the approved Plot Plan

CITY OF PALMDALE...

Residential Driveway Alternate Sections... Std. No.

Approved  1-9-71

Revised 3/22/00

C-3.1
Conform to Existing

Driveway to be constructed in a monolithic pour from curb to R/W line

Notes:
1. Apply light broom finish to surface at a right angle to face of curb.
   Broom finish gutter parallel to street.
2. All edges shall have 1/8" radius.
3. Depress back of driveway 2".
4. At A Reinforcement Alternative, 8" x 8" x 10 ga. WWM may be substituted.
Note: Sidewalk To Be Constructed Per A.P.W.A. Standard Plan No. 103-0.
(Curb And Sidewalk Joints)
See Std. No. C-7 For Grooving Details

12' Min.

8% Slope

Sidewalk

B.C.R.

E.C.R.

Note:
Sidewalk to be constructed per A.P.W.A. Standard
Plan No. 112-1.
(Curb and Sidewalk Joints)

NOTES:

1. This Right-Of-Way Configuration Is To Be Used On All Intersections
   Where One Of The Streets Has A Right-Of-Way Width Of 80 Feet
   Or More, And At Other Locations As Required By The City Engineer.

2. Greater Sidewalk Width May Be Required In Commercial Areas.

CITY OF PALMDALE...

Sidewalk Landing Detail Major & Secondary
Highway Intersections

Std. No.

C-5

Approved

John Mundell

City Engineer

1-9-91

REV. 3/99
Power Pole Or Other Sidewalk Encroachments Such As Fire Hydrant, Controller Box, Etc.

4' Min. Clearance

15' R Min.

5' Min.

15' R Min.

18'

* Slip-resistant Surface

Curb Face

* SEE NOTE 1 OF STD. NO. C-3.2

CITY OF PALMDALE...
Sidewalk Encroachments
Std. No. C-6

Approved John Studebaker 1-7-91
CEn Engineer
NOTES:

1. INSIDE EDGE OF FOUR (4) FOOT RAMPS SHALL BE LOCATED AT THE CURB RETURNS.

2. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF 1:12 AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO THE TOP OF THE RAMP.

3. FOR GROOVE AND LIP DETAIL SEE SHEET 6.

SECTION "B-B"

SECTION "A-A"

RAMP DIMENSIONS

CITY OF PALMDALE DEPARTMENT OF PUBLIC WORKS
CURB RAMP—CASE A: NEW CONSTRUCTION FOR MAJOR, SECONDARY, AND LOCAL STREETS

STANDARD PLAN C-7

APPROVED John Mundell
CITY ENGINEER

DATE 9-14-95

SHEET 1 OF 6
NOTES:
1. FOR GROOVE AND LIP DETAIL SEE SHEET 6.

RAMP DIMENSIONS

RAMP DETAIL

NOT TO SCALE
SECTION "A-A"

NOTES:

1. WHEELCHAIR RAMP SHALL BE LOCATED AT THE MIDPOINT OF THE CURB RETURN.

2. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF 1:10 AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO THE TOP OF THE RAMP.

3. FOR GROOVE AND LIP DETAIL SEE SHEET 6.

RAMP DIMENSIONS

NOT TO SCALE

CITY OF PALMDALE DEPARTMENT OF PUBLIC WORKS

CURB RAMP-CASE D-1: NEW CONSTRUCTION FOR LOCAL STREETS

APPROVED: Date: 9-14-95

STANDARD PLAN

Sheet 3 of 6
NOTES:

1. WHEELCHAIR RAMP SHALL BE LOCATED AT THE MIDPOINT OF THE CURB RETURN.

2. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF 1:12 AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO THE TOP OF THE RAMP.

3. FOR GROOVE AND LIP DETAIL SEE SHEET 6.

<table>
<thead>
<tr>
<th>CURB HT.</th>
<th>X MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6'</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8'</td>
</tr>
</tbody>
</table>

RAMP DIMENSIONS

RAMP DETAIL

NOT TO SCALE

CITY OF PALMDALE DEPARTMENT OF PUBLIC WORKS

CURB RAMP—CASE D-2: EXISTING LOCAL INTERSECTION

STANDARD PLAN

C-7

APPROVED: John Mundwiler
CITY ENGINEER

DATE: 9-14-95

SHEET 4 OF 6
SECTION "A-A"

NOTES:

1. WHEELCHAIR RAMP SHALL BE LOCATED AT THE MIDPOINT OF THE CURB RETURN.

2. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF 1:12 AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO THE TOP OF THE RAMP.

3. FOR GROOVE AND LIP DETAIL SEE SHEET 6.

CITY OF PALMDALE DEPARTMENT OF PUBLIC WORKS
CURB RAMP—CASE D-3: EXISTING MAJOR AND SECOND INTERSECTION

NOT TO SCALE
GENERAL NOTES:

1. RAMPS SHALL HAVE A 12" BORDER ALONG PLATFORM. SEE GROOVING DETAIL FOR SPACING. THE SURFACE OF THE RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.

2. RAMPS SHALL BE CONSTRUCTED OF CLASS 520-C-2500 PORTLAND CEMENT CONCRETE, FOUR (4) INCHES THICK.

3. MINIMUM WALKWAY WIDTH = 36"
CITY OF PALMDALE...

Alley Intersection Details

Approved  John H. Hundley  1-9-91

Std. No.  C-8

NOTE 1:
- Place 6" PCC Walk When Parkway is 8' or Less.
- For Parkways 8' To 8' Wide The Curb Face Shall Be 8" Minimum.
NOTE: See Std. No. D-1.2 For Parkway Drywell Details.

CITY OF PALMDALE...

Parkway Drywell

Std. No. D-1.1

Approved: John Munden

1-4-91
CONSTRUCTION NOTES:

1. MODIFIED MANHOLE CONE.
2. CONCRETE BACKFILL.**
4. GRADED PARKWAY. P.C.C. SIDEWALK. OR A.C. PAVING.
5. COMPACTED BASE MATERIAL.
6. DEBRIS SHIELD.*
7. PRECAST LINER.
8. MIN. 6' DIAMETER DRILLED SHAFT.
9. SUPPORT BRACKET.*
10. OVERFLOW PIPE (6") SCH 40 PVC.
11. 6" DIAMETER PVC PIPE.
12. 4" THICK CONCRETE BASE.
13. 3/8" TO 1/2" WASHED ROCK.
14. DRAINAGE SCREEN.* (.120 SLOTS)
15. MIN 4' DIAMETER DRILLED SHAFT.
16. EXISTING OR PROPOSED SIDEWALK.
17. ALHAMBRA PDY A-1292 BOLTED GUTTER DRAIN PER STU. NO. D-1.3.
18. U.V. RESISTANT FABRIC SEAL.***
19. 4" CONNECTOR PIPE WITH 2" ORIFICE AT INTERCEPTOR ENTR.
20. 8" PVC PIPE (SCH 80) AND FITTINGS AT MIN 15% SLOPE.
21. PROVIDE FOR 1" LOCAL DEPRESSION WHERE GRATE AND GUTTER P.L.
22. JOIN.
23. 4 QT. MIN. HYDROPHOBIC ABSORBENT.*

* REQUIRES SPECIFICATION OR DETAIL.
** ACTUAL DEPTH OF CONCRETE WILL BE DETERMINED BY THE SOILS ENGINEER.
***FABRIC SEAL TO REMAIN UNTIL PAVING AND/OR LANDSCAPING IS COMPLETE.
NOTE: This Detail is Alhambra Foundry A-1292 Gutter Drain.

CITY OF PALMDALE...

Parkway Drywell (Gutter Drain)  Std. No. D-1.3

Approved John Fordwalt 1-9-91

On Engr. Date
NOTE:
Gutter Drain to be installed with a maintainable strainer screen inside the drain for intercepting debris.

CITY OF PALMDALE...

DRYWELL GUTTER DRAIN

Approved: John Thunstadt 6/8/92

Std. No. D-1.4
NOTES

1. Owner Shall be Responsible for Cleaning and Maintaining Pipe.
2. Minimum Cross-slope to be 1% for Drain Pipe.
3. Place 4 x 4 Wire Mesh Full Length 24" on Each Side of Pipe.
4. Under Sidewalk Drains to be Used Only by Approval of City Engineer where a Storm Drain Does Not Exist or Extension of an Existing Storm Drain Is Impractical.

CITY OF PALMDALE...
Under Sidewalk Drains

Std. No. D-2

Approved: John Smith

1-9-91
TOP OF BERM

6" X 6" 10/10 WHM

12" MIN

CUT-OFF WALL

6" MIN

4" MIN

15" MIN LAP

TYPICAL CONSTRUCTION JOINT

COMPACTED EMBANKMENT & PIPE TRENCH BACKFILL

OUTLET PIPE 15" DIA MIN

P.C.C. ENCASEMENT PER STD D-6

ANTI-SEEP COLLAR PER STD D-4 AT 15" INTERVAL

SECTION A--A IS ON STD D-3.2

1. OUTLET STRUCTURE MAY BE A RISER, AS SHOWN, OR ANY OTHER DESIGN WHICH INCORPORATES THE SLOPE PROTECTION, ANTI-SEEP COLLARS AND HYDRAULIC CONSIDERATIONS.

2. SEE STD D-7 FOR ADDITIONAL NOTES.
SECTION A-A FROM STD D-3.1

CITY OF PALMDALE...
DETENTION BASIN OUTLET STRUCTURE

Approved [Signature] 12-14-92
City Engineer Date

Std. No. D-3.2
1. Sides and bottom of collar shall be placed against undisturbed soil or compacted fill.

2. Anti-seep collar shall extend at least 12" into undisturbed soil.

CITY OF PALMDALE...

ANTI-SEEP COLLAR

Approved John [Signature] 12-14-92

Std. No. D-4
SECTION THROUGH EMBANKMENT

- SLOPES AS APPROVED BY CITY ENGINEER, NO STEEPER THAN 2:1.
  SEE STD D-7.2

SECTION B-B

SEE STD D-7 FOR ADDITIONAL NOTES.

CITY OF PALMDALE...

BASIN SPILLWAY

Approved [Signature] 12-14-92
City/Engineer  Date

Std. No. D-5
GENERAL NOTES:

1. EXTEND BOTH ENDS OF ENCASEMENT TO A POINT ONE INCH SHORT OF FIRST PIPE JOINT BEYOND LOCATIONS SPECIFIED ON PLAN.

2. APPLY FORM OIL, THIN PLASTIC SHEET, OR OTHER ACCEPTABLE MATERIAL TO PIPE, TO PREVENT BOND BETWEEN PIPE AND CONCRETE.

3. USE CLASS 470-C-2500 CONCRETE

4. PLACE PCC AGAINST UNDISTURBED EARTH OR COMPACTED FILL.
DETENTION/RETENTION BASIN
NOTES

All grading, trenching and backfill shall be considered "Engineered Grading" and shall conform with the requirements of Chapter 70 of the City of Palmdale Building Code and the following. Reports as specified in Section 7021 shall be filed with the City Engineer.

A. SITE PREPARATION

1. The embankment foundation area and reservoir area shall be cleared of all trees, stumps, roots, brush, boulders, sod, and debris.

2. All topsoil containing excessive amounts of organic matter shall be removed.

3. The foundation for the embankment shall be scarified and approved by the geotechnical engineer and city inspector prior to placement of fill. Loose foundation soils shall be removed to firm soil and recompacted to 90% relative compaction.

B. EMBANKMENT

1. The embankment material shall be approved by the geotechnical engineer prior to construction of embankment.

2. The material shall be free of all sod, roots, woody vegetation, large rock (exceeding 12 inches in diameter), and other debris.

3. Placement of fill material shall be started at the lowest point of the foundation and shall be placed in 6-inch maximum lifts which are to be continuous over the entire length of the fill and approximately horizontal. Embankment shall be compacted to 90% relative compaction as per ASTM D-1557.

CITY OF PALMDALE...

BASIN NOTES

Approved John Thundweil 12-14-92
City Engineer

Std. No. D-7.1
4. Slopes within the basin and slopes outside the
landscape maintenance assessment district may be
as steep as 2:1 at the discretion of the City
Engineer.

5. Pipe shall be encased per STD Plan D-6.

6. Trench backfill (including irrigation line
trenches) shall be compacted to 90% relative
compaction and certified by the soils engineer.
Alternatively, trenches may be backfilled with a
sand-cement slurry (2 sack mix) or Portland Cement
Concrete, upon the recommendation of the
geotechnical consultant. Inspection of this
operation by the geotechnical consultant and the
city inspector is required.

7. Soils engineer shall verify and approve trench
bottom soil prior to placement of pipe.

C. OUTLET STRUCTURES

1. The drain pipe encasement shall be placed on a
firm foundation approved by the soils engineer.

2. Anti-seep collars are required at 15' intervals
for pipe under the embankment, with a minimum of
one required in addition to the inlet and outlet
erosion protection.

3. Discharge shall be to a paved street, channel, or
an approved drainage course with grouted riprap.
Riprap shall be 12" minimum size rock. Riprap
shall be embedded a minimum 6" into grout.

4. The drain pipe shall be a minimum of 15" in
diameter and shall be constructed with water tight
joints.

5. All concrete shall be Portland Cement Concrete
420-C-2000 unless otherwise specified.
D. EMERGENCY SPILLWAY

1. The spillway shall be lined with a minimum of 4-inch thick concrete, reinforced with 6" x 6" 10/10 welded wire mesh. The concrete must extend a minimum of 3 feet down the upstream face of the embankment.

2. Spillway and outlet structures may be combined into a single structure, but the low-flow outlet capability must be retained, if required by the City Engineer. Details must be included on grading plans.

3. Spillway may be combined with access driveway, if approved by the City Engineer. Details must be included on grading plans.

E. EROSION CONTROL

1. Except for bottom and concrete areas, all interior surfaces of the basin shall be prepared and hydroseeded as required by the City Landscape Architect.

2. There shall be no permanent landscape irrigation system inside the basin.
"MODIFIED"
MINIMUM TYPICAL SECTION
WHERE REQUIRED
FOR DRAINAGE PURPOSES

R/W

STREET R/W VARIES

R/W

SHOULDER
WIDTH VARIES
6' MIN
NEW CONSTRUCTION

EXISTING PAVEMENT (TYP)
WIDTH VARIES

SHOULDER
WIDTH VARIES
6' MIN
NEW CONSTRUCTION

1. MAX 2:1 SLOPE (TYP)
2. PAVED SWALE W/ BERM (TYP)
3. STRUCTURAL SECTION SUBJECT TO APPROVAL BY CITY ENGINEER
4. Y' DEPTH OF SWALE SUBJECT TO APPROVAL BY CITY ENGINEER
5. MAX 2:1 SLOPE (TYP)

CITY OF PALMDALE...

MODIFIED LACDPW STANDARD - 1070-0

Std. No. D-8

Approved - 7/30/92
CITY OF PALMDALE...

Residential Cul-De-Sac

Std. No. G-1.1

Approved: [Signature]

6/18/92
CITY OF PALMDALE...

Commercial Cul-De-Sac

Std. No. G-2

Approved City Engineer  Date
Given:

B.C.R. Elev. : ________
E.C.R. Elev. : ________
P.I. Elev. : ________

S1 - Diff. in Elev. Between BCR And P.I. = ________
S2 - ________ ECR = ________

\[ \frac{1}{4}\Delta = B.C.R. \text{ Elev.} + 38\% S1 + 8\% S2. \]

\[ \frac{1}{2}\Delta = B.C.R. \text{ Elev.} + 38\% S1 + 33\% S1 + 8\% S2 + 21\% S2. \]

\[ \frac{3}{4}\Delta = B.C.R. \text{ Elev.} + 38\% S1 + 33\% S1 + 21\% S1 + 8\% S2 + 21\% S2 + 33\% S2. \]

Note: P.I. Elevation Determined By Grades Of Through "X" Street

B.C.R. = ________

\[ \frac{1}{4}\Delta = B.C.R. \text{ Elev.} + 38\% S1 + 8\% S2 \]

\[ \text{_______} + 0.38( ) + 0.08( ) \]

\[ \text{_______} + \text{_______} = \text{_______} \]

\[ \frac{1}{2}\Delta = B.C.R. \text{ Elev.} + 71\% S1 + 29\% S2 \]

\[ \text{_______} + 0.71( ) + 0.29( ) \]

\[ \text{_______} + \text{_______} = \text{_______} \]

\[ \frac{3}{4}\Delta = B.C.R. \text{ Elev.} + 92\% S1 + 62\% S2 \]

\[ \text{_______} + 0.92( ) + 0.62( ) \]

\[ \text{_______} + \text{_______} = \text{_______} \]

E.C.R. = ________

---

CITY OF PALMDALE...

Return Grades

Std. No. G-4

Approved: City Engineer 1-9-91

Date: 2-89 b.
COLOR CODED MAP FOR VALVE LOCATION INSIDE (SEE SPECS)
RAIN GUARD (W.C.S. RG)
FLUSH W/TOP OF HOUSING
1/2 x 3 GALV STEEL NIPPLE AND ELBOW
WITH 1/2" FLOOR FLANGE BOLTED TO HOUSING

USE VANDAL PROOF ENCLOSURE (W.C.S. RGVR)

AUTOMATIC CONTROLLER UNIT
SECURE HOUSING ON CONCRETE FOOTING WITH GALV 3/4 BOLTS
(TYP 2 PLACES)
CONNECT WIRES FROM RAIN GUARD TO MASTER VALVE OR PUMP START POWER POST
ALL WIRES SHALL BE TIED INSIDE HOUSING
ON-OFF SWITCH TO BE PROVIDED BY CONTRACTOR (IF SPEAKER IS NOT LOCATED NEAR CONTROLLER)

CONCRETE FOOTING (INSTALL 3' MIN. ABOVE GRADE AND SLOPE CONCRETE AT 2% TO DRAIN

FINISH GRADE
ELECTRICAL CONDUIT TO SOURCE (INDEPENDENT SERVICE) PROVIDED BY
ELECTRICAL TAPE (TAPE WIRING AT INTERVALS OF 12" O.C.)

1 COMMON WIRE TO ALL R.C.V. S
1 CONTROL WIRE TO EACH R.C.V.
ADDITIONAL COMMON WIRE TO ALL R.C.V.'S (SEE MOISTURE SENSOR DETAIL)

NOTE:
- COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED.
- NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVE UNLESS OTHERWISE APPROVED.
- CONTROL WIRING SEQUENCE CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT. (AS ON DRAWING)
- WHEN USING RAIN GUARD LOCATE CONTROLLER IN A WAY NOT TO BE SPRAYED BY SPRINKLER

CITY OF PALMDALE
TYP. AUTOMATIC CONTROLLER (OUTDOORS)

STANDARD DETAIL

REVISIONS

1-1

ENGINEERING PLANNING PUBLIC WORKS
APPROVED BY ABOVE DATE IMPLEMENTED 1-10-10
1. Common wire to be white & control wire to be black in color unless otherwise noted.
2. No splices shall be made between controller & remote control valve unless otherwise approved.
3. Control wiring sequence corresponds to operating sequence of remote control valves & automatic sprinkler unit station connection - see irrigation plan for correct valve sequence.
4. When using rain guard locate controller in a way not to be sprayed by sprinkler.
BOX TO BE PLACED AT RIGHT ANGLE TO
LANDSCAPE EDGE

12" x 18" PLASTIC BOX AND COVER WITH
LOCK TOP

CURL TYPE EXPANSION LOOP (MIN. 24")

WATERPROOFED WIRE CONNECTION

CHRISTY'S I.D. TAG (STANDARD)
SECURE TO SOLENOID
PIGTAIL

FINISH GRADE
LAWN AREA

FINISH GRADE
SHRUB AREA

MOISTURE SENSOR

6" MAX. TOP
OF VALVE

10" MIN.

COMMON WIRE
CONTROL WIRE

SIDWALK, CURB,
ETC.

12" OR
AS NOTED

NON-PRESSURE
LINE FITTING

PVC LINE PIPE

PEA GRAVEL
(MIN. 3 CU FT.)

FLOW ADJUSTMENT

PVC SCH. 40 MALE ADAPTOR
(TYP. 2 PLACES)

PVC LINE PIPE

PVC ELBOW

PVC LINE PIPE

PVC Supply LINE FITTING (S x S x S)

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MIN. OF
3 FT. APART.
3. USE TEFLON TAPE ON ALL THREADED FITTINGS.

CITY OF PALMDALE
TYP. REMOTE CONTROL VALVE
(STRAIGHT TYPE)

STANDARD
DETAIL

REVISIONS

1-3

ENGINEERING PLANNING PUBLIC WORKS
APPROVED BY ABOVE DATE IMPLEMENTED 1-10-91
NOTE:
1) Valves are to be installed in shrub areas unless otherwise approved.
2) When more than one valve is located in the same area, provide a space a min. 3 ft. apart.
3) Use Teflon tape on all threaded fittings.

CITY OF PALMDALE
TYP. REMOTE CONTROL VALVE
(ANGLE TYPE)
CITY OF PALMDALE

TYP. QUICK COUPLING VALVE

QUICK COUPLING VALVE
MAX. 2' BELOW TOP OF BOX

FINISH GRADE
LAWN AREAS

FINISH GRADE
SHRUB AREAS

12' ROUND PLASTIC BOX & COVER
SET FLUSH WITH FINISH GRADE
IN LAWN AREA 3' ABOVE FINISH
GRADE IN OTHER AREAS

STAINLESS STEEL CLAMP

SIZE & LENGTH AS REQ'D
SCH. 40 PVC NIPPLE

3/4' GRAVEL

SCH. 40 PVC STREET ELBOW

SCH. 80 PVC NIPPLE
SIZE & LENGTH AS REQ'D

PVC SUPPLY LINE

NOTE: USE TEFLOM TAPE ON ALL THREADED FITTING

SCH. 40 PVC STREET ELBOW

1-1/2" PVC PIPE STAKE
(SCH. 40)
MIN. 36" LONG OR AS SITE REQUIRES

PVC SUPPLY LINE (SxSxT) FITTING

SCH. 40 PVC ELBOW

CITY OF PALMDALE

STANDARD DETAIL

TYP. QUICK COUPLING VALVE

REVISIONS

1-5

ENGINEERING PLANNING PUBLIC WORKS

APPROVED BY ABOVE DATE IMPLEMENTED 1-10-91
NOTE: GATE VALVE SHALL BE INSTALLED IN PLANTING AREAS UNLESS OTHERWISE APPROVED.
NOTES:
- USE TEFLOM TAPE ON ALL THREADED FITTINGS.
- TYP. DRAIN PIPE SHALL BE INSTALLED NEXT TO ROOTBALL OF PLANT MATERIAL.
- ON SLOPES INSTALL UP SLOPE FROM ROOT BALL.
CITY OF PALMDALE

TYP. SHRUB HEAD ASSEMBLY

NOTE: USE TEFLOM TAPE ON ALL THREADED FITTINGS

1-9
NOTE:
1. INSTALL HEAD FLUSH WITH TOP OF HARDSCAPE AT INTERSECTIONS & CORNERS.
2. USE TEFLOM TAPE ON ALL THREADED FITTINGS.
NOTE:
1. INSTALL HEAD FLUSH WITH TOP OF HARDSCAPE AT INTERSECTION & CORNERS.
2. USE TEFLOW TAPE ON ALL THREADED FITTINGS.
3. BODY TO BE EQUIPPED WITH BUILT-IN CHECK VALVE.

CITY OF PALMDALE

TYP. 12\" POP-UP SHRUB HEAD
(BOTTOM FED)

STANDARD
DETAIL

REVISIONS

I-11

ENGINEERING  PLANNING  PUBLIC WORKS
APPROVED BY ABOVE DATE IMPLEMENTED 1/10/41
SPRINKLER NOZZLE

POP-UP BODY ASSEMBLY
(INSTALL 1/2" ABOVE FINISH GRADE)

PVC SCH. 60 NIPPLE SIZE AS REQUIRED

PVC SCH. 40 STREET ELBOW

PVC SCH. 40 ELBOW

PVC SCH. 80 NIPPLE (SIZE AS REQUIRED) IN FINAL POSITION RISER SHALL BE AT A 45° ANGLE

PVC SCH. 40 STREET ELBOW

LATERAL LINE (SIZE AS NOTED ON DRAWING)

NOTE: USE TEFLOM TAPE ON ALL THREADED FITTINGS

CITY OF PALMDALE
TYP. LAWN HEAD ASSEMBLY

STANDARD DETAIL

REVISIONS

1-12

ENGINEERING PLANNING PUBLIC WORKS
APPROVED BY ABOVE DATE IMPLEMENTED 1-10-91
Initial installation

Rotor head after lowering (final installation)
1/2" above finish grade

Provide 1 cft. of pea gravel if impact heads is used

Field steel street elbows sch. 40 pvc

Size & length as required sch. 80 pvc (riser shall be at a 45° angle after final installation)

Lateral line

Galv. steel street elbow sch. 40 elbow

Pvc tee (SxSxT) or elbow

Note: Use Teflon tape on all threaded fittings

City of Palmdale

Typ. Lawn Rotor Head (Large)

Revisions

I-13

Engineering Planning Public Works

Approved by Above Date Implemented 1-10-91
NOTES:

- PROVIDE SAND BACKFILL A MIN. OF 12" OVER AND UNDER ALL PIPING UNDER PAVED AREAS AND A MIN. OF 6" ON ALL OTHER PRESSURE PIPING WHEN NOTED.

- INSTALL ALL SUPPLY LINES (DOMESTIC AND IRRIGATION) MIN. 10 FEET IN HORIZONTAL DISTANCE FROM SEWER LINES AND MIN. 3 FEET ABOVE THE ELEVATION OF NEARBY SEWER LINES WHERE THESE LINES CROSS.
1. Use Teflon tape on all threaded fittings.

2. Install plastic box 1/2" above finish grade in lawn areas & 3" above finish grade in shrub areas.

CITY OF PALMDALE

TYP. AIR & PRESSURE RELIEF VALVE

NOTES:

1. Use Teflon tape on all threaded fittings.

2. Install plastic box 1/2" above finish grade in lawn areas & 3" above finish grade in shrub areas.

REVISIONS

I-15

ENGINEERING PLANNING PUBLIC WORKS

APPROVED BY ABOVE DATE IMPLEMENTED 1-10-41

STANDARD DETAIL
Typical Building Wall

Automatic Controller Assembly to be Wall Mounted

Common Wire shall be Tied Inside Housing When Required

On-Off Switch to be Provided by Contractor

Sleeve for Control Wires

Electrical Conduit to Independent Source (Control Unit Electrical Requirements: 12V, 60 Cyc, 2 Amps Max)

Notes:
1. Common Wire to be White & Control Wire to be Black in Color.
2. No Splices shall be Made between Controller & Remote Control Valve.
3. Control Wiring Sequence corresponds to Operating Sequence of Remote Control Valves & Automatic Controller Unit Station Connection (See Irrigation Plan for Correct Valve Sequence).

Finish Grade

Straight Conduit for Wire Connections using Wire Nuts

Electrical Tape - Tape Wraps at Intervals of 10 Feet on Center

Control Wiring (AWG UF) to Control Unit at Terminals

1 Common Wire to All R.C.V.'s

1 Control Wire to Each R.C.V.
1. - 2" x 8" D.F. or equal - Bolted to 4" x 4" posts w/ 3/8" galv. Bolts/ nuts

2. - 4" x 4" x 6" Douglas Fir or equal posts.

3. - Minimum 24" concrete footing

4. - Rails shall be covered with reflective sheeting with alternating red and white color bands 6" in width. Rails may be 8" to 12" wide and constructed of 5/4" exterior Douglas Fir plywood, grade A-8.
1. Use Concrete Channel Block where Horizontal Steel is called for.
2. Concrete shall be 1:2 1/2: 3 3/4 Machine mix with maximum of 7 1/2 Gallons water per Sack of cement.
3. Reinforcing steel shall be structural grade $f_s = 20,000$ P.S.I.
4. Reinforcing Steel Bars shall lap 54 Bar diameters.
5. All Blocks shall be laid up in mortar with full head and bed joints. Webs of each course shall center on webs of courses below.
6. All cells in which steel is placed shall be filled with grout.
7. Mortar shall be 1-part Cement, 3 1/2 parts Sand (1/4 part Lime optional).
8. Pour footing and piers against undisturbed natural soil or soil that has been compacted to 90% Optimum Density per A.A.S.H.O. T99-49
9. Piers shall be located at maximum intervals of 10 feet center to center or as called for on plan.
10. The Contractor shall obtain a permit from the local Building and Safety Office prior to construction after the steel is in place and 24 hours prior to pouring concrete for the footing. The Contractor shall call the local Building and Safety Office for inspection; prior to grouting the wall cells, The Contractor shall again call the local Building and Safety Office for inspection. Final Inspection shall be called for upon completion of the wall.
11. Any height of block wall over 6 feet shall require structural calculations.
12. Note 10 applies to Private contractors only.

CITY OF PALMDALE

Block Wall Detail

Approved: ____________________________ 1-9-91
City Engineer

 Std. No. M-3.1
 SHEET 1 of 2

Rev 2/99
WALL SECTION - CANTILEVER

For NOTES see Std M-3, Sht 1 of 2.
Note #9 Not applicable for this Std.

CITY OF PALMDALE...

Block Wall Detail

Std. No. M-3.2

Approved 1-4-91
City Engineer
Construction Notes:

1. 2" Square 16 Ga. Steel Tubing Frame And Diagonals, Miter Joints And Continuous Weld All Connections.

2. 1" Square 16 Ga. Steel Tubing Vertical Bars. Evenly Spaced. 11 Ea. Bars Per 4'0" Section. Continuous Weld At All Connections.

3. 6" Heavy Duty Steel Hinges. Min. 3 Per Gate. Continuous Weld In Place. Note: Gate Shall Swing Open 180° Outward.

4. 1/4" x 3 1/2" Steel Plate.

5. 1/2" Anchor Bolts, Min 4 Per Gate. Bolts Shall Have Minimum 4" Embedment Into Wall.

General Notes:

All Components Shall Be Galvanized After Fabrication, Or Painted With A Protective Coating Per The City Of Palmdale Requirements. All Corners Shall Have A Corner Post.

This Drainage Basin Fence Shall Be Constructed Around All Drainage Basins. Any Height Of Block Over 5 Feet Shall Require Structural Calculations.
CONNECTION DETAIL
CITY OF PALMDALE...

Standard Street Name Sign

Approved: John Hundley

Std. No. M-5.1

Type "A" Bracket
Scale: 3/4" = 1'-0"

Note: All Dimensions Are In Inches.
Street Name Plate

Block Number Plate

Scale: 1/4" = 1'-0"

Note: All Dimensions Are in Inches.

CITY OF PALMDALE...

Standard Street Name Sign

Std. No. M-5.2

Approved Date

John Standard
STANDARD SPECIFICATIONS
AND DETAILS FOR
STREET NAME SIGNS AND BRACKETS

1. The street name and block number plates shall be aluminum alloy 6061 T6, 0.125 inches thick. Lengths shall be 24, 30, or 36 inches. No length greater than 36 inches will be accepted.

2. Street name and block number plates shall be covered with high intensity retro-reflective sheeting. Colors shall be silver-white legend on blue background.

3. The street name shall be comprised of 4-1/2 inch upper case letters and numbers and 3-3/8 inch lower case letters. The block number shall be comprised of 3 inch upper case letters and numbers.

4. Type "A" brackets shall be used. The street name plate shall be secured to the bracket with three (3) bolts. The block number plate shall be secured with two (2) bolts. Refer to standard detail M-5.1

5. Manufacture of signs shall be in accordance with Los Angeles County Department of Public Works specifications for high intensity retro-reflective street name signs.

6. Street name signs shall be mounted high enough so as to permit installation of other traffic control signs beneath them. The bottom of the street name sign bracket shall be no lower than 9 feet 6 inches above the sidewalk.

CITY OF PALMDALE...

Standard Street Name Sign

Approved

Std. No. M-5.3
Compact A.C. in 2 Lifts To 95% Relative Compaction, 1" Thicker Than Existing, 4" Minimum And 12" Maximum.

Saw Cut

12"

Saw Cut

12"

Existing A.C. Pavement

Area "A"

3'

Variable

Area "B"

Varies

Compacted Backfill

Bedding

Utility Line

Bedding,
Compaction Per Section 306-1.2.1 Of The
Standard Specifications

Varies

Area "A" = Backfill Shall Be Crushed Aggregate Base, Compacted
To 95% Relative Compaction And Certified.

Area "B" = Backfill Shall Be Granular Material Having A Minimum Sand
Equivalent (SE) Of 20, Compacted To 90% Relative Compaction
And Certified.

FOR TRENCHES ACROSS STREETS...

CITY OF PALMDALE...

Backfill And A.C. Repair

Std. No. M-6.1

Approved  John Thundurt  1-9-91
Compact A.C. in 2 Lifts To 95% Relative Compaction, 1" Thicker Than Existing, 4" Minimum And 12" Maximum.

Saw Cut 12" 12" Saw Cut

Existing A.C. Pavement

Area "A" - Backfill Shall Be Crushed Aggregate Base, Compacted To 95% Relative Compaction And Certified.

Area "B" - Backfill Shall Be Granular Material Having A Minimum Sand Equivalent (SE) Of 20, Compacted To 90% Relative Compaction And Certified.

FOR TRENCHES ALONG STREETS...

CITY OF PALMDALE...

Backfill And A.C. Repair

Std. No. M-6.2

Approved: John Thundwaal 1-1-91
1. Type of Drawing, and the City of Palmdale Control Number. ST=Street, GD=Grading, SD=Storm Drain, etc. Shown like ST. 89-102. The 89 is the year. The 102 is a control number. Note both numbers are issued by the City of Palmdale.

2. Tract Number or S.P.R.C. Number.

3. Sheet ___ of _____.

4. Title of Drawing: Note what is on the subject sheet only.

5. Reviewed By: (Plan Check Engineer) With Date

6. Approved By: (City Engineer) With Date: Note this approval block is to be on the cover sheet only.

7. Revision Block: Use Los Angeles County Department of Public Works Revision Block as Standard.

8. Scale: Note for subject sheet only. Not details.

9. Design Engineer's Block. Containing "Prepared Under the Supervision of" and stamp or seal and signature.

10. Other Agency Approval Block. I.e. City of Lancaster, Los Angeles County, or the State of California. This block is on the cover sheet only.

11. General Notes, with the private Engineer's Notice to Contractor and private Engineer's Statement of Responsibility.

12. Vicinity map with Major Street Names, City limits; north arrow toward top of sheet.

13. Bench Mark: County of Los Angeles, Palmdale Quad. Elevation, location, benchmark, number, description, and adjustment date. Legend and symbols may be placed in this area also.

14. Key Map containing scale, bar scale, north arrow, street names, key to sheet numbers.

15. Construction Notes.

16. Typical sections, typical details, and special details as space permits.

   ○ Construction Notes - Numbers Only And Consistent Throughout Plan Set.

   ○ Curve Data - Letters Only And Consistent Throughout Plan Set.

   ∆ Plan Revisions - Numbers Only And Consistent Throughout Plan Set.

CITY OF PALMDALE...

Sample Title Sheets

Approved John Mundschat 1-9-91

City Engineer

Std. No. M-7.2
Symbols And Abbreviations

Piping, general (less than 16" diameter)

NOTE: Lettered with material conveyed (S, G, W, etc.).

Piping, general (16" diameter or larger)

NOTE: Lettered with construction material (RCP, CMP, etc.)

Building

Existing asphalt pavement

Trees, shrubs

Meters, water and gas

Walls, retaining and block

Fences, barb wire, or chain link

Fire hydrant

Manhole

Power pole (lines indicate direction of wires)

Power pole anchor

Road side signs (with direction of travel shown)

CITY OF PALMDALE...

Symbols And Abbreviations

Approved: John Mundwed Date: 1-9-91

Std. No. M-8.1
EXISTING PAVEMENT REMOVAL (CROSS-HATCHED)

ASPHALT CONCRETE PAVEMENT OVERLAY (HATCHED)

NEW ASPHALT CONCRETE PAVEMENT (SHADED)
NOTES...


2. Variable Thickness A.C. Pavement To Be Constructed In Two Courses.


4. See City Of Palmdale Std. No. S-1.2 For Street Width Dimensions.

CITY OF PALMDALE...

Typical Street Section

Approved: John Thundweck  1-4-91

Std. No. S-1.1
<table>
<thead>
<tr>
<th>TYPE OF STREET</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential entrance streets from master plan</td>
<td>64'</td>
<td>32'</td>
<td>20'</td>
<td>12'</td>
</tr>
<tr>
<td>highways, thru collector streets, streets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>adjacent to schools, multiple residential use</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>streets.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local streets and cul-de-sac streets more than</td>
<td>60'</td>
<td>30'</td>
<td>18'</td>
<td>12'</td>
</tr>
<tr>
<td>700 feet in length.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cul de sac streets having a length of 700 feet or</td>
<td>58'</td>
<td>29'</td>
<td>17'</td>
<td>12'</td>
</tr>
<tr>
<td>less.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial and commercial local and streets.</td>
<td>66'</td>
<td>33'</td>
<td>23'</td>
<td>10'</td>
</tr>
<tr>
<td>Industrial and commercial entrance, collector</td>
<td>84'</td>
<td>42'</td>
<td>32'</td>
<td>10'</td>
</tr>
<tr>
<td>and loop streets.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary highways.</td>
<td>80'</td>
<td>40'</td>
<td>32'</td>
<td>8'</td>
</tr>
</tbody>
</table>

**CITY OF PALMDALE...**

Typical Street Section

Std. No.
S-1.2

Approved: [Signature]

Date: 1-9-91
NOTES...


2. Variable Thickness A.C. Pavement To Be Constructed In Two Courses.

**Dimensions**

<table>
<thead>
<tr>
<th>B</th>
<th>Curb Face</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>84'</td>
<td>8&quot;</td>
<td>-0.24 *</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>0.41 *</td>
</tr>
<tr>
<td>64'</td>
<td>8&quot;</td>
<td>-0.06</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>0.23 *</td>
</tr>
<tr>
<td>46'</td>
<td>8&quot;</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>0.07 *</td>
</tr>
<tr>
<td>40'</td>
<td>8&quot;</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>0.01 *</td>
</tr>
<tr>
<td>36'</td>
<td>8&quot;</td>
<td>0.19</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>0.02</td>
</tr>
<tr>
<td>34'</td>
<td>8&quot;</td>
<td>0.21</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>0.04</td>
</tr>
</tbody>
</table>

* Crown Above Level Line.

NOTE: Dimension "F" is Based On Pavement Crossfall Of 1.80%.

**CITY OF PALMDALE...**

Street Cross-Fall

Approved: City Engineer

Date: 1-9-91

Std. No. S-2
Notes:
1. Curb Location And Grade Control.
2. Construct Curb And Gutter With P.C.C. Type 520-C-2500
3. All Exposed Corners On P.C.C. Curb And Gutters To Be Rounded With A 3/4" Radius.

This STANDARD is VOID use

APWA STD 120-1, A2-200(8)
Notes:
1. Curb Location And Grade Control.
2. Construct Curb And Gutter With P.C.C. Type 520-C-2500
3. All Exposed Corners On P.C.C. Curb And Gutter To Be Rounded With A 3/4" Radius.

This STANDARD is VOID use

APWA STD 120-1, A2-150(6)
NOTES

1. CASTINGS SHALL CONFORM TO ASTM 48-36.

2. CASTINGS ARE TO BE DIPPED IN BLACK BITUMINOUS PAINT.

3. BOX AND LID HEARING SURFACES MACHINED TO CLOSE QUICK FIT.

4. CASTINGS MAY BE AVAILABLE FROM ALHAMBRA FOUNDRY CO., LONG BEACH IRON WORKS, INC., OR EQUAL.


CITY OF PALMDALE
SURVEY MONUMENT

APPROVED: [Signature] 5/11/94
CITY ENGINEER DATE

MIN 5" DIA CONCRETE (MIN 1 C.F.)

MIN 3/8" CL.

MIN 6" CLEAR OPENING

MIN 3"

MIN 6' SEE NOTE 6

MIN 16"

NO SCALE