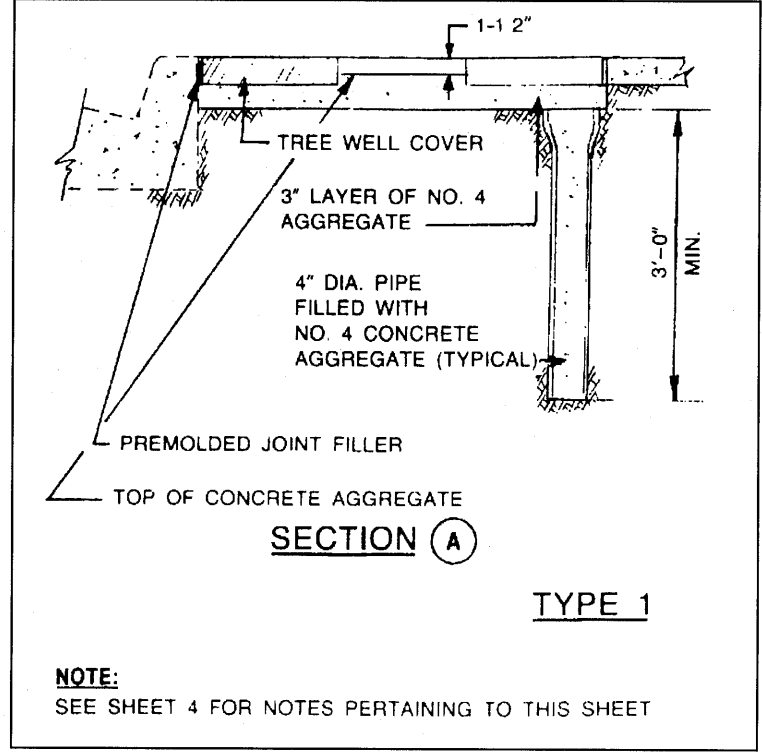


4'-1" X 4'-1" X 3" THICK, NATURAL COLOR PERMEABLE CONCRETE TREE WELL COVER DIMENSIONS © 1/4"

CASE 1

2'-11" X 5'-6" X 3" THICK, NATURAL COLOR PERMEABLE CONCRETE TREE WELL COVER DIMENSIONS © 1/4"

CASE 2



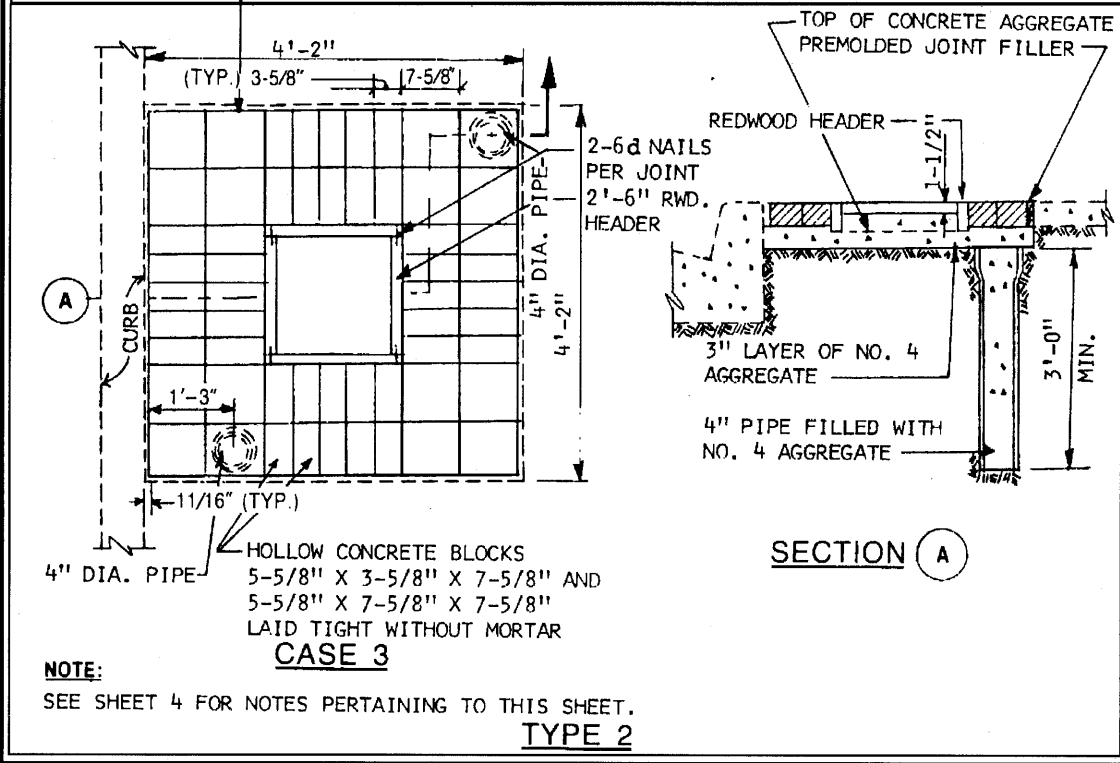
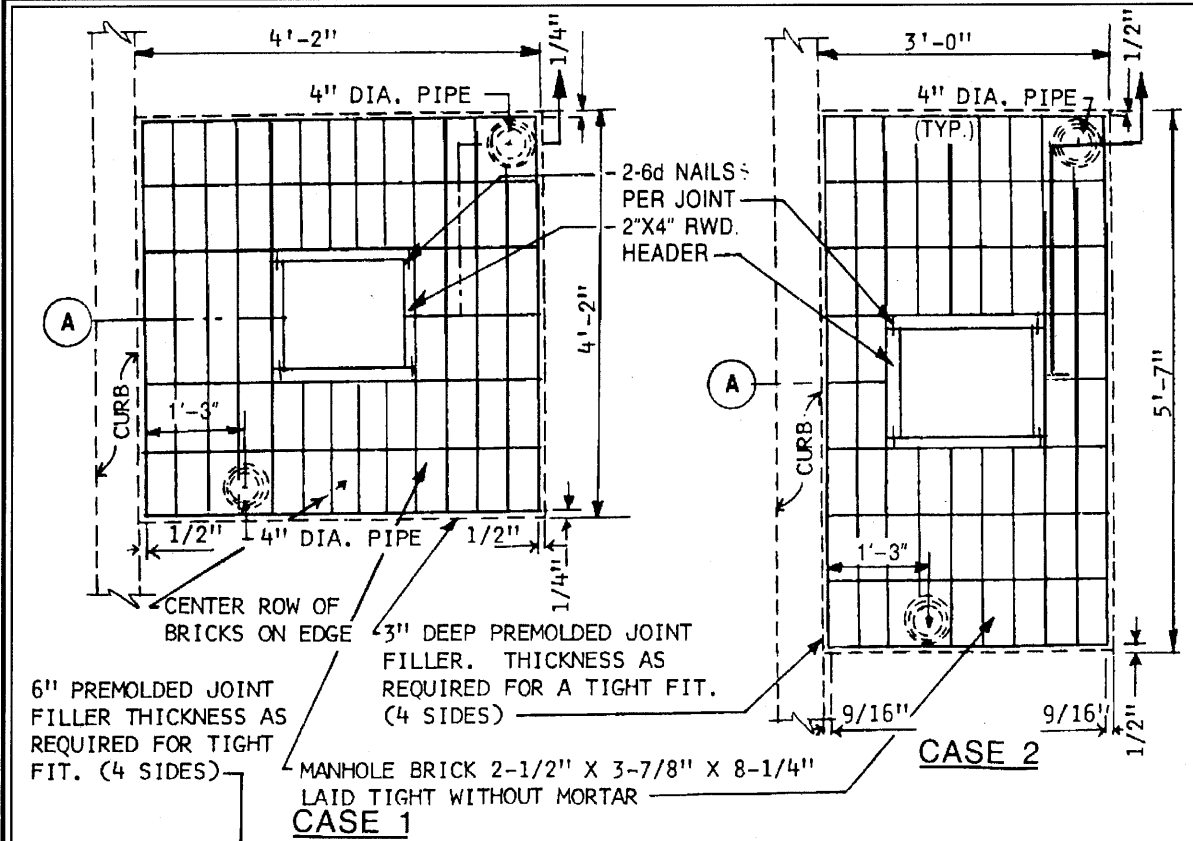
SECTION A

TYPE 1

NOTE:
SEE SHEET 4 FOR NOTES PERTAINING TO THIS SHEET

A.P.W.A. STD. No. 519-1

REVISIONS:			
APPROVED 08/21/01	 <i>City of La Quinta</i>	STANDARD	
CHRIS A. VOGT CITY ENGINEER RCE 44250		705	
		SHEET 1 OF 6	
		TREE WELL	



A.P.W.A. STD. No. 519-1

REVISIONS:

APPROVED
08/21/01

CHRIS A. VOGT
CITY ENGINEER
RCE 44250



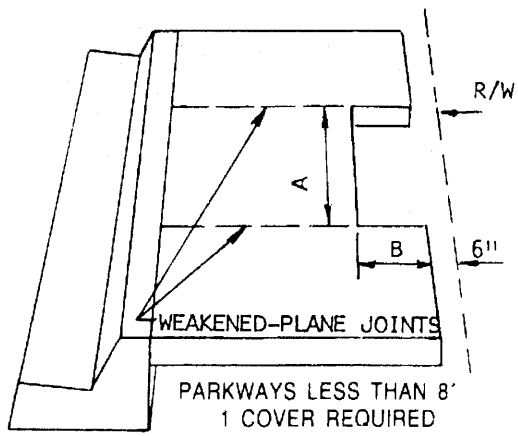
City of La Quinta

TREE WELL

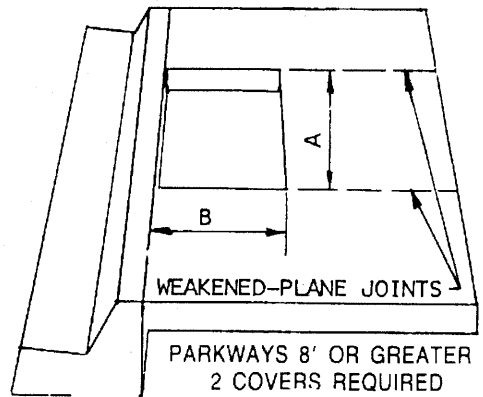
STANDARD

705

SHEET 2 OF 6

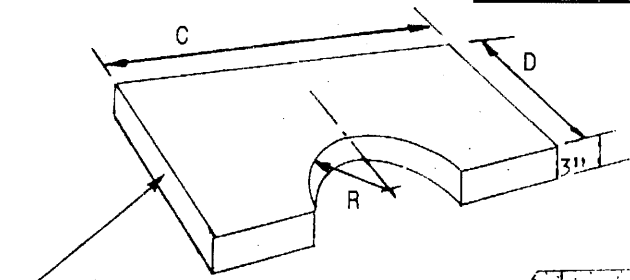


PARKWAYS LESS THAN 8'
1 COVER REQUIRED
CASE I: 1'6" X 3' TREE WELL
CASE II: 2' X 4' TREE WELL



PARKWAYS 8' OR GREATER
2 COVERS REQUIRED
CASE III: 3' X 3' TREE WELL
CASE IV: 4' X 4' TREE WELL

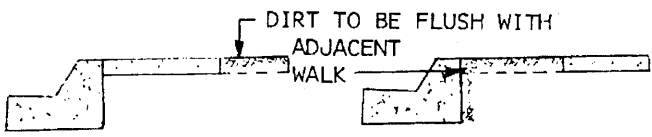
TREE WELLS



POROUS, PERMEABLE P.C.C.
REINFORCED WITH 2 1/4" X 2 1/4"
16 GAUGE WIRE MESH (SEE NOTE 6)

POROUS TREE WELL COVER

CASE	A	B	C	D	R
I	3'-0"	1'-6"	2'-11"	1'-5 1/2"	9"
II	4'-0"	2'-0"	3'-11"	1'-11 1/2"	15"
III	3'-0"	3'-0"	2'-11"	1'-5 1/2"	9"
IV	4'-0"	4'-0"	3'-11"	1'-11 1/2"	15"



TYPICAL SECTIONS

NOTES:

1. TREE WELLS SHALL BE SPACED AS DIRECTED OR INDICATED ON THE CONTRACT DOCUMENTS.
2. LOCATION OF TREE WELLS WILL BE SUBJECT TO THE FOLLOWING MINIMUM CONDITIONS:
 - A. 50' FROM THE BCR ON THE APPROACH TO AN INTERSECTION.
 - B. 15' FROM THE ECR ON THE EXIT FROM AN INTERSECTION.
 - C. 20' FROM LIGHT STANDARDS.
 - D. 10' FROM FIRE HYDRANTS.
 - E. 10' FROM DRIVEWAYS.
3. COVERS ARE TO BE COLORED BUFF USING AN ACCEPTABLE COLORING AGENT.
4. TREE WELLS ARE TO BE BACKFILLED WITH CLEAN DIRT AND FLUSH WITH ADJACENT WALK UNTIL TREES ARE PLANTED.
5. PARKWAYS LESS THAN 8': CASE I - UNLESS OTHERWISE SPECIFIED. CASE II - USE WHERE THERE'S AN EXISTING FENCE OR WALL AT THE PL. PARKWAYS 8' OR GREATER: CASE III - UNLESS OTHERWISE SPECIFIED. CASE IV - MAY BE SPECIFIED WITH WALKS 7' OR GREATER.
6. FOR MATERIAL SPECIFICATIONS, SEE NOTE 1 FOR TYPE 1 TREE WELL ON SHEET 4.

TYPE 3

A.P.W.A. STD. No. 519-1

REVISIONS:

APPROVED
08/21/01

CHRIS A. VOGT
CITY ENGINEER
RCE 44250



City of La Quinta

TREE WELL

STANDARD

705

SHEET 3 OF 6

NOTES FOR TYPE 1 TREE WELL

1. THE COVER SHALL BE MADE OF PERMEABLE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 1200 PSI AND SHALL BE CAST-IN-PLACE OR PRECAST "AGRIPERM" OR EQUIVALENT. CAST-IN-PLACE CONCRETE SHALL CONSIST OF ONE PART CEMENT TO FOUR PARTS 3/8" GRAVEL AND APPROXIMATELY FOUR GALLONS OF WATER PER SACK OF CEMENT. THE GRAVEL SHALL BE CLEAN WITH FINES REMOVED. THE CONCRETE MIXTURE SHALL BE DEPOSITED AS NEAR AS POSSIBLE TO ITS FINAL LOCATION. THE EXCESS CONCRETE SHALL BE RODDED OFF IN A SAWING MOTION. A SURPLUS OF CONCRETE SHOULD BE MAINTAINED AGAINST THE FRONT SURFACE OF THE SCREED IN ORDER THAT LOW AREAS WILL BE FILLED AS THE SCREED PASSES OVER. RODDING SHALL BE HELD TO A MINIMUM. AFTER THE SURFACE IS FLAT NO OTHER FINISHING WILL BE REQUIRED. CURING COMPOUND TO WHICH WATER PROOFING MATERIALS HAVE BEEN ADDED WILL NOT BE PERMITTED.
2. EXISTING SIDEWALK SHALL BE CAREFULLY SAWCUT PREPARATORY TO INSTALLATION OF TREE WELL COVERS. SAWCUT OVER-RUNS SHALL BE CLEANED AND FILLED WITH EPOXY APPROVED BY THE ENGINEER AND FINISHED TO SIDEWALK GRADE.
3. THE PIPE MAY BE CIP, ACP, VCP, ABS, PVC, GALV. STL. OR ASPHALT IMPREGNATED FIBER DUCT AND IT MAY BE BELL OR PLAIN END.
4. AFTER ALL OTHER WORK PERTINENT TO PLANTING HAS BEEN COMPLETED, EACH TREE SHALL BE WATERED IMMEDIATELY WITH A MINIMUM OF 20 GALLONS OF WATER, AND REPEATED 2 TIMES IN THE NEXT 3 DAYS. AFTER THE TREE HAS BEEN WATERED AND THE SOIL IS SUFFICIENTLY DRY. THE SOIL SHALL BE GRADED AND TAMPED. THE 3-INCH LAYER OF AGGREGATE SHALL BE PLACED AND GRADED TO ACCEPT THE TREE WELL COVER FIRMLY, WITHOUT ROCKING, AND FLUSH WITH THE TOP SURFACE OF THE SIDEWALK. THE PREMOLDED JOINT FILLER SHALL BE CAREFULLY PLACED TO INSURE A TIGHT FIT WITH THE TOP OF THE JOINT FILLER FLUSH WITH THE ADJACENT SIDEWALK.
5. IF CAST-IN-PLACE, THERE SHALL BE A 3 MIL PLASTIC LINER BETWEEN WALK AND AGGREGATE.

NOTES FOR TYPE 2 TREE WELL

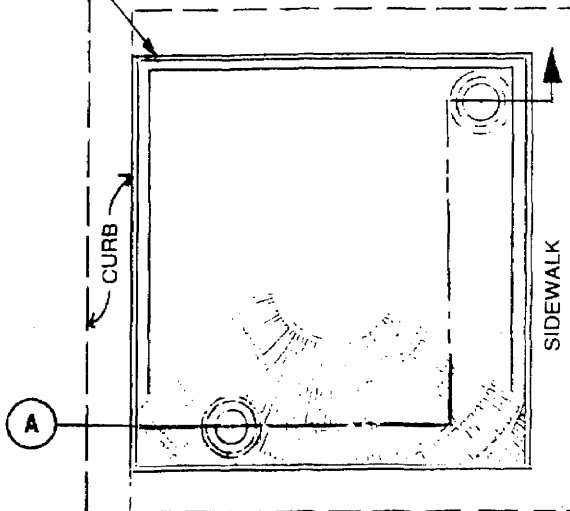
1. EXISTING SIDEWALK SHALL BE CAREFULLY SAWCUT PREPARATORY TO LAYING OF CONCRETE BLOCKS OR BRICK. SAWCUT OVER-RUNS SHALL BE CLEANED AND FILLED WITH EPOXY APPROVED BY THE ENGINEER AND FINISHED TO SIDEWALK GRADE.
2. THE PIPE MAY BE CIP, ACP, VCP, ABS, PVC, GALV. STL. OR ASPHALT IMPREGNATED FIBER DUCT, AND IT MAY BE BELL OR PLAIN END.
3. NAILS SHALL BE GALVANIZED STEEL BOX.
4. AFTER ALL OTHER WORK PERTINENT TO PLANTING HAS BEEN COMPLETED, EACH TREE SHALL BE WATERED IMMEDIATELY WITH A MINIMUM OF 20 GALLONS OF WATER AND REPEATED 2 TIMES IN THE NEXT 3 DAYS. AFTER THE WATER HAS SETTLED AND THE SOIL IS SUFFICIENTLY DRY, THE SOIL SHALL BE GRADED AND TAMPED. A 3-INCH LAYER OF AGGREGATE SHALL BE PLACED AND GRADED TO ACCEPT BRICKS FLUSH WITH THE TOP SURFACE OF THE SIDEWALK. THE PREMOLDED JOINT FILLER AND HEADERS SHALL BE CAREFULLY PLACED TO INSURE A TIGHT FIT WITH THE TOP OF THE JOINT FILLER FLUSH WITH THE ADJACENT SIDEWALK.

A.P.W.A. STD. No. 519-1

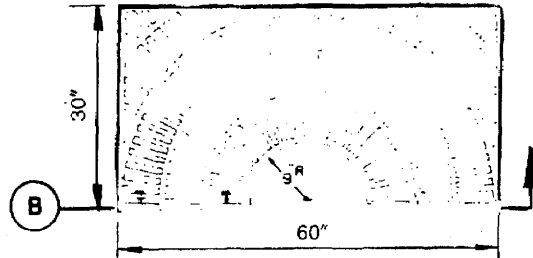
REVISIONS:

APPROVED 08/21/01	 City of La Quinta	STANDARD
CHRIS A. VOGT CITY ENGINEER RCE 44250	TREE WELL	705
		SHEET 4 OF 6

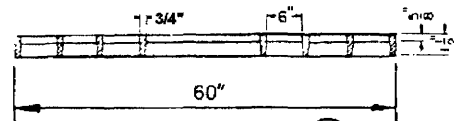
SEE FRAME DETAIL ON SHEET NO. 6



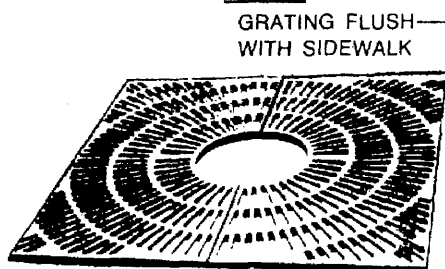
PLAN



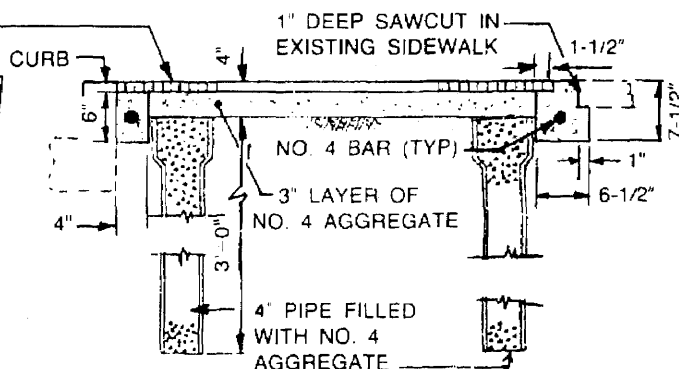
GRATE PLAN



SECTION B



ISOMETRIC VIEW



SECTION A

NOTES:

1. GRATE MATERIAL TO BE CAST IRON.
2. GRATE PATTERN AS SPECIFIED ON PROJECT PLANS AND/OR IN SPECIFICATIONS.
3. EXISTING SIDEWALK SHALL BE CAREFULLY SAWCUT PREPARATORY TO LAYING OF FRAME. SAWCUT OVER-RUNS SHALL BE CLEANED AND FILLED WITH EPOXY APPROVED BY THE ENGINEER AND FINISHED TO SIDEWALK GRADE.
4. THE PIPE MAY BE CIP, ACP, VCP, ABS, PVC, GALV. STL. OR ASPHALT IMPREGNATED FIBER DUCT, AND IT MAY BE BELL OR PLAIN END.
5. AFTER ALL OTHER WORK PERTINENT TO PLANTING HAS BEEN COMPLETED, EACH TREE SHALL BE WATERED IMMEDIATELY WITH A MINIMUM OF 20 GALLON OF WATER AND REPEATED 2 TIMES IN THE NEXT 3 DAYS. AFTER THE WATER HAS SETTLED AND THE SOIL IS SUFFICIENTLY DRY, THE SOIL SHALL BE GRADED AND TAMPED AND 3-INCH LAYER OF CONCRETE AGGREGATE SHALL BE PLACED AND GRADED.

TYPE 4

A.P.W.A. STD. NO. 519-1

REVISIONS:

APPROVED
08/21/01

CHRIS A. VOGT
CITY ENGINEER
RCE 44250



City of La Quinta

TREE WELL

STANDARD

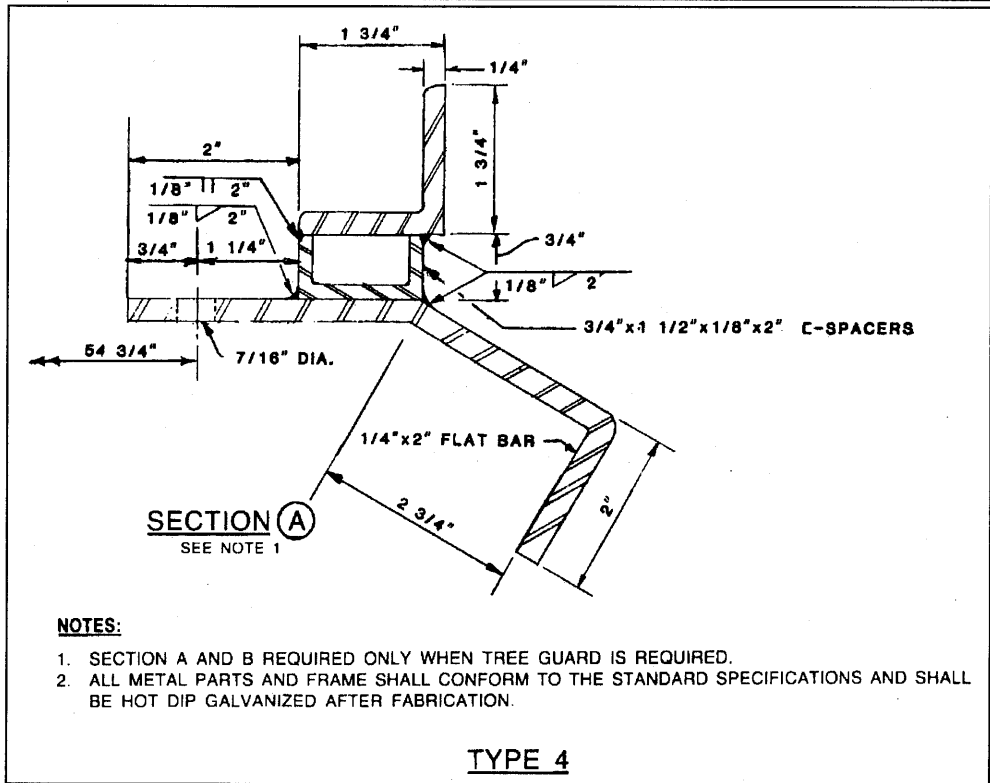
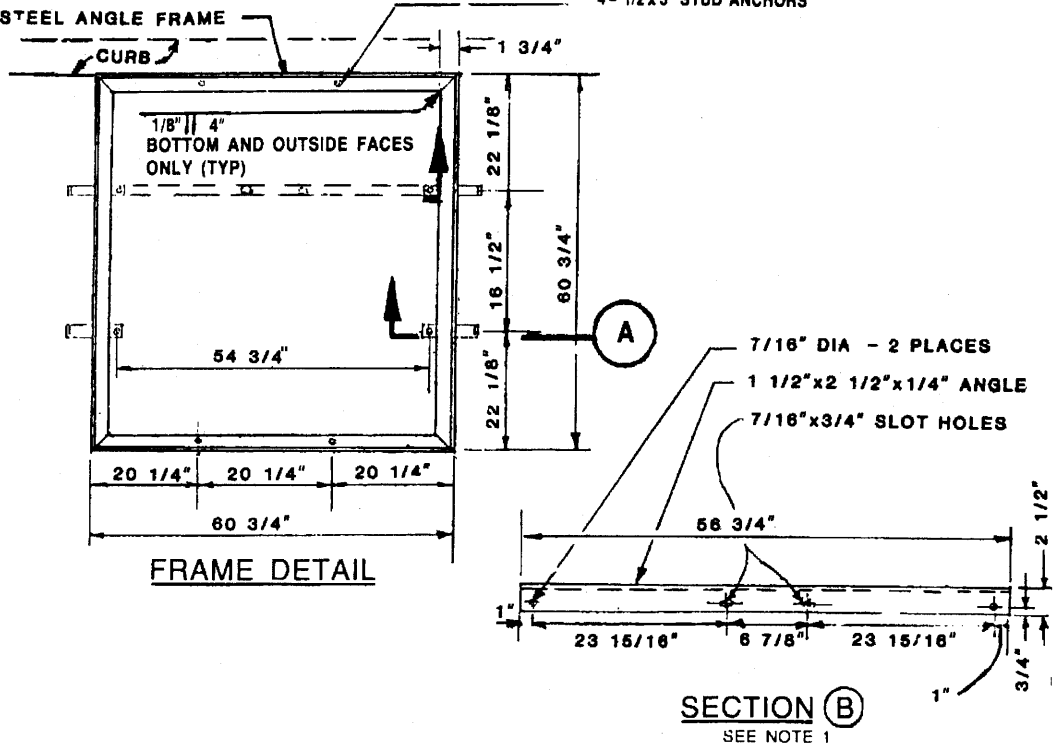
705

SHEET 5 OF 6

1 3/4"x1 3/4"x1/4"

STEEL ANGLE FRAME

4- 1/2"x3" STUD ANCHORS



A.P.W.A. STD. No. 519-1

REVISIONS:

APPROVED
08/21/01

CHRIS A. VOGT
CITY ENGINEER
RCE 44250



City of La Quinta

TREE WELL

STANDARD

705

SHEET 6 OF 6