

CITY OF PALM DESERT STANDARD DETAILS AND DESIGN GUIDELINES

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ABBREVIATION**DEFINITION**

Ac.	Acre
AASHTO	American Association of State Highway and Transportation Officials
ASTM	American Society for Testing and Materials
Area	Area
A.C.	Asphalt Concrete
Ave.	Avenue
Avg.	Average
B.C.R.	Beginning of Curb Return
B.C.	Beginning of Curve
B.V.C.	Beginning of Vertical Curve
B.M.	Bench Mark
Blvd.	Boulevard
Calc.	Calculated
CA MUTCD	California Manual on Uniform Traffic Control Devices
C.I.	Cast Iron
C.B.	Catch Basin
C.T.B.	Cement Treated Base
C	Center
☉	Centerline
C-C	Center to Center
Cir.	Circle
C.O.	Cleanout
Conc.	Concrete
C.P.	Concrete Pipe
Cons.	Construct
Co.	County or Company
Cor.	Corner
C.M.P.	Corrugated Metal Pipe
C.M.P.A.	Corrugated Metal Pipe Arch
cu. ft.	Cubic Feet
C.Y.	Cubic Yards
Cb.	Curb
C&G	Curb & Gutter
C.F.	Curb Face
C.R.	Curb Return
D.G.	Decomposed Granite
DLC	Digital Loop Carrier
Dr.	Drive
Dwy	Driveway
E.	East
E'y	Easterly
E.P.	Edge of Existing Paving
Elev.	Elevation
E.C.R.	End of Curb Return
E.C.	End of Curve
E.V.C.	End of Vertical Curve
E.O.R.	Engineer of Record
Est.	Estimate
Exc.	Excavation
Exist	Existing
F.B.	Field Book
F.G.	Finished Grade
F.F.E.	Finish Floor Elevation
F.H.	Fire Hydrant
F.L.	Flow Line
Ft.	Foot
Fd.	Found
Guy	Guy Wire of Pole
GB	Grade Break

ABBREVIATION**DEFINITION**

HW	Head Wall
HDM	Highway Design Manual
HP	High Point
Hor.	Horizontal
H.G.L.	Hydraulic Grade Line
I.B.M.	Imported Base Material
IISNS	Internally Illuminated Street Name Sign
Inv.	Invert
I.E.	Invert Elevation
LS	Landscape
Lat.	Lateral
Lt.	Left
L	Length
L.F.	Linear Feet
LP	Low Point
L.C.	Lowercase
M.H.	Manhole
M.B.	Map Book
Max.	Maximum
M.O.C.	Middle of Curve
M.O.	Middle Ordinate
Min.	Minimum
Mon	Monument
N.T.S.	Not to Scale
N.	North
NE'y	Northeasterly
NW'y	Northwesterly
No.	Number
O.C.	On Center
Opp.	Opposite
OG	Original Ground
PE	Pad Elevation
P.V.C.	Plastic Pipe (Polyvinyl Chloride)
P.C.C.	Point of Compound Curvature or Portland Cement Concrete
P.C.V.C.	Point of Compound Vertical Curve
P.C.	Point of Curvature
P.I.G.	Point of Intersecting Gutters
P.I.	Point of Intersection
P.R.C.	Point of Reverse Curvature
P.R.V.C.	Point of Reverse Vertical Curve
P.T.	Point of Tangency
P.P.	Power Pole
P.B.	Pull Box
PL	Property Line
Qty	Quantity
R	Radius
RPM	Raised Pavement Marker
R.S.	Record of Survey
R.W. Hdr.	Redwood Header
R.E.	Registered Engineer
R.C.B.	Reinforced Concrete Box
R.C.P.	Reinforced Concrete Pipe
Rt.	Right
R/W	Right of Way
Riv.	Riverside
Rd.	Road
S.B.	San Bernardino
SBB&M	San Bernardino Base & Meridian
SS	Sanitary Sewer

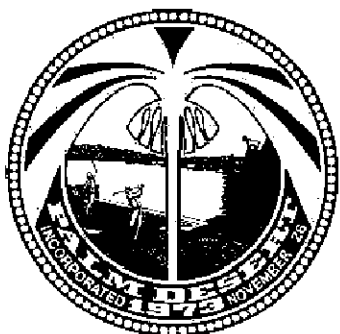
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ACRONYMS AND
ABBREVIATIONS

100

SHEET 1 OF 2

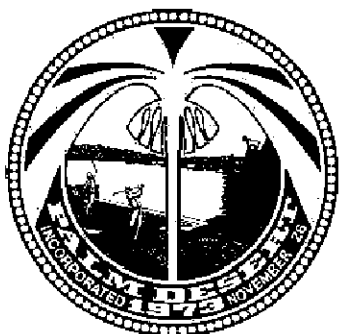
ABBREVIATION

DEFINITION

Sec.	Section
SMH	Sewer Manhole
S/W	Sidewalk
SIC	Signal Innerconnect
S.	South
SE'y	Southeasterly
SW'y	Southwesterly
Spec.	Specifications
Spk.	Spike
Sq.	Square
SS	Stainless Steel
Stk.	Stake
Std.	Standard
Sta.	Station
S.D.	Storm Drain
St.	Street
T.O.E.	Thread One End
T.C.	Top of Curb
TF	Top of Footing
T.P.	Top of Pavement
TW	Top of Wall
Tr.	Tract
TS	Traffic Signal
Typ.	Typical
U.C.	Uppercase
Vert.	Vertical
V.C.	Vertical Curve
V.P.I.	Vertical Point of Intersection
V.C.P.	Vitrified Clay Pipe
W.	West
W'y	Westerly
XING	Crossing
X-Walk	Crosswalk
2:1	2 Horizontal to 1 Vertical

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**ACRONYMS AND
ABBREVIATIONS**

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SHEET 2 OF 2

TYPICAL LEGEND

EASEMENT	----
ROLLED/WEDGE CURB	=====
CURB AND GUTTER	=====
CENTERLINE	-----

RIGHT-OF-WAY	-----
POINT OF INTERSECTION	-----△-----
LOT LINE	-----
EXISTING	LIGHT GRAY
PROPOSED	BLACK

UNDERGROUND UTILITIES

SANITARY SEWER	-----SS-----
WATER LINE	-----W-----
STORM DRAIN	-----S.D.-----
GAS LINE	-----G-----
IRRIGATION LINE	-----IRR.-----

TELEPHONE CONDUIT	-----T-----
ELECTRICAL CONDUIT	-----E-----
STREET LIGHTING	-----SL-----
TRAFFIC SIGNAL	-----SIG-----
CABLE TELEVISION	-----CTV-----

TOPOGRAPHY

	BLOCK WALL
	BOARD FENCE
	WIRE FENCE
	CHAIN LINK FENCE

	TOP OF SLOPE
	TOE OF SLOPE
	DIRECTION OF FLOW
	RETAINING WALL

	SANITARY SEWER M.H.
	STORM DRAIN M.H.
	TELEPHONE VAULT
	WATER METER
	FIRE HYDRANT
	POLE & GUY ANCHOR
	POLE
	TRAFFIC SIGN

	GAS METER
	RAILROAD TRACKS
	RAILROAD SIGNAL
	STREET LIGHT
	VALVE
	MONUMENT
	STREET NAME SIGN
	MAIL BOX

	CONCRETE
	ASPHALT
	EDGE OF PAVEMENT
	BUILDING
	UNDERGROUND STRUCTURE
	OVERHANGING STRUCTURE

	CITRUS TREE
	DECIDUOUS TREE
	PALM TREE
	TREE STUMP
	SHRUBBERY

	EXISTING SOIL
	GRAVEL
	TRAFFIC CONE
	BARRICADE
	DELINEATOR
	BIKE LANE SIGN

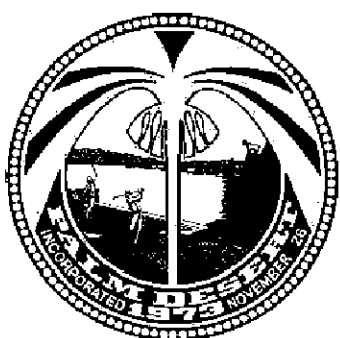
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DRAFTING STANDARDS
AND TOPOGRAPHY
SYMBOLS

101
SHEET 1 OF 2

TRAFFIC, LIGHTING, & STRIPING LINE STYLES

EXISTING LANE		PROPOSED LANE DROP	
PROPOSED LANE		EXISTING LANE EXTENSION	
EXISTING LEAD-IN		PROPOSED LANE EXTENSION	
PROPOSED LEAD-IN		EXISTING DOUBLE CENTER	
EXISTING LANE EXTENSION		PROPOSED DOUBLE CENTER	
PROPOSED LANE EXTENSION		EXISTING PASSING ZONE	
EXISTING LANE DROP		PROPOSED PASSING ZONE	

UTILITY LINE STYLES

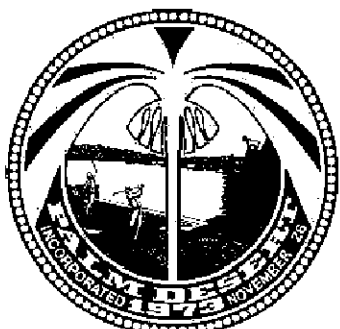
TELEVISION		(oh)
TELEPHONE		(oh)
TELECOM		(oh)
FIBER OPTIC		(oh)
ELECTRICAL		(oh)

SYMBOLS

PROPOSED	EXISTING	
		LOUVERED VISOR (LEFT-ANGLE SHOWN - REVERSED FOR RIGHT ANGLE)
		TRAFFIC SIGNAL PULLBOX (PB)
		STREET LIGHTING PULLBOX (SLPB)
		CONTROLLER CABINET
		UNDERGROUND SERVICE CABINET
		TRAFFIC SIGNAL POLE
		VEHICLE SIGNAL HEAD WITH NO BACK PLATE
		VEHICLE SIGNAL HEAD WITH BACK PLATE
		PROGRAMMED VISIBILITY VEHICLE HEAD (3-12" SECTIONS)
		SIGNAL VEHICLE HEAD WITH ALL 12" ARROW INDICATIONS (REVERSE DIRECTION OF ARROW FOR LEFT OR RIGHT TURNS)
		PEDESTRIAN SIGNAL HEAD
		SIGNAL AND LUMINAIRE MAST ARMS WITH VEHICLE SIGNAL HEAD, 3-12" SECTIONS WITH BACK PLATE
		MAST ARM WITH VEHICLE SIGNAL HEAD, 3-12" SECTIONS WITH BACK PLATE
		TRAFFIC SIGNAL POLE WITH VEHICLE SIGNAL AND PEDESTRIAN HEADS
		TRAFFIC SIGNAL POLE WITH LUMINAIRE MAST ARM
		RETRO-REFLECTIVE MAST ARM MOUNTED SIGN
		INTERNALLY ILLUMINATED MAST ARM MOUNTED SIGN
		INDUCTIVE LOOP DETECTOR
		BICYCLE LOOP DETECTOR
		VIDEO DETECTION CAMERA
		VIDEO DETECTION ZONE
		WIRELESS RADIO ANTENNA
		FLASHING BEACON

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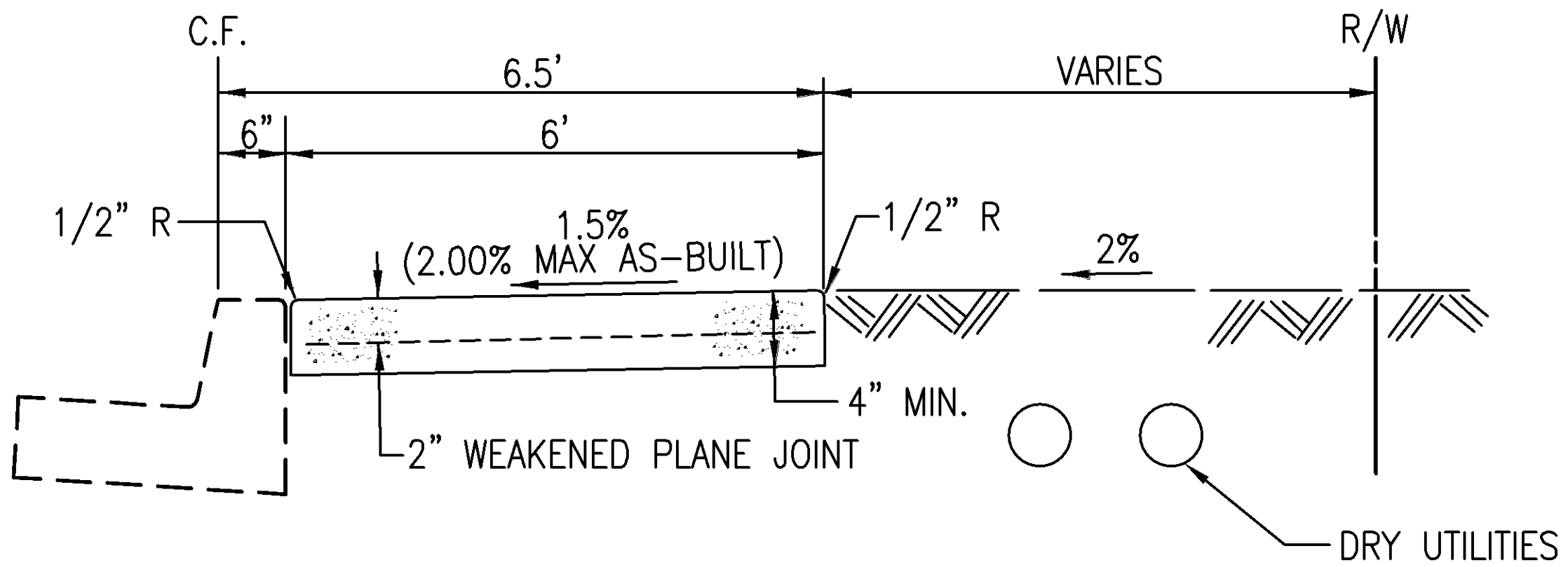
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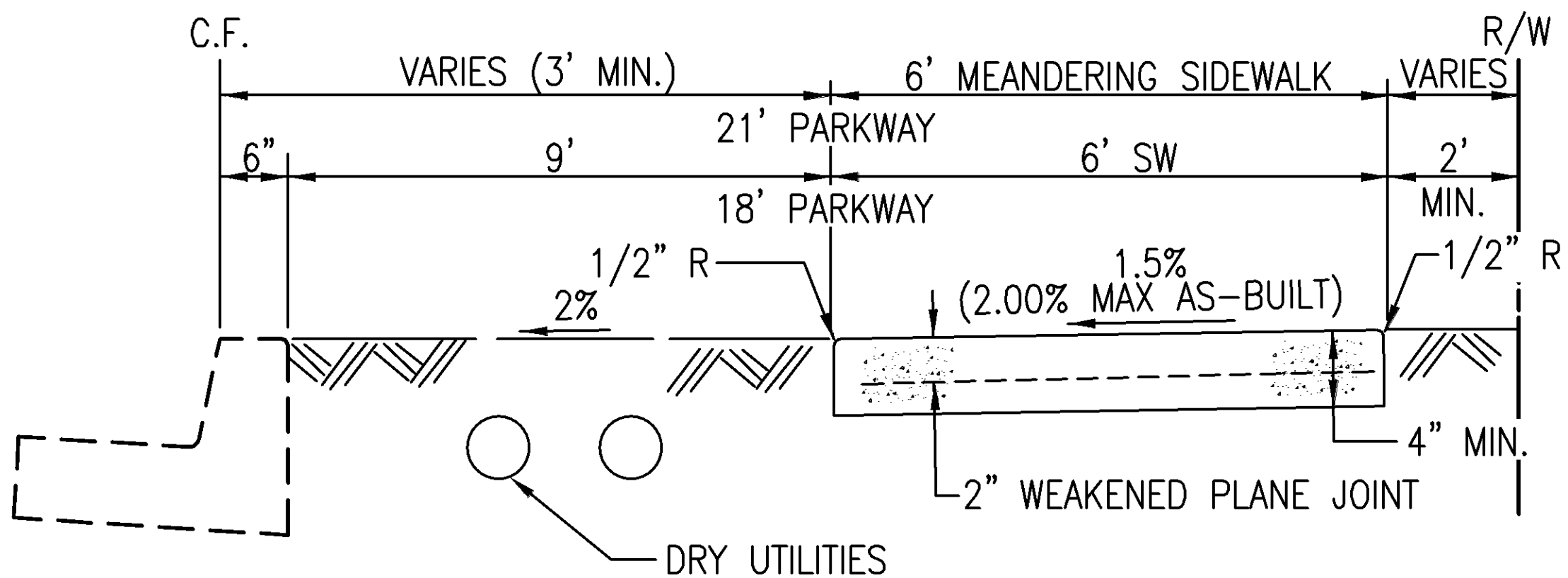
DRAFTING STANDARDS
AND TOPOGRAPHY
SYMBOLS

101

SHEET 2 OF 2



CURB ADJACENT SIDEWALK



MEANDERING SIDEWALK

NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. MINIMUM 4-FT CLEARANCE FOR ACCESSIBILITY PATH THROUGHOUT SIDEWALK.
3. ALL SIDEWALKS SHALL BE A MINIMUM THICKNESS OF 4".
4. SPECIFIC CONSTRUCTION DETAILS SHALL BE PER CURRENT EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION MANUAL.
5. EXPANSION PAPERS & WEAKENED PLANE JOINTS TO MATCH CURB & GUTTER.
6. MEET CURRENT ADA STANDARD. CROSS SLOPE OF SIDEWALKS SHALL BE MINIMUM OF 2% OR AS SPECIFIED BY STATE AND FEDERAL ACCESSIBILITY GUIDELINES, WHICHEVER MORE RESTRICTIVE.
7. LONGITUDINAL GRADE SHALL MEET CURRENT STATE AND LOCAL ACCESSIBILITY STANDARDS. LONGITUDINAL SLOPES OF MORE THAN 8% ARE SUBJECT TO THE CITY ENGINEER APPROVAL.
8. REMOVAL AND REPLACEMENT SHALL BE DONE TO THE NEAREST JOINT.

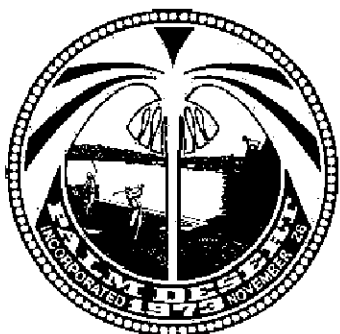
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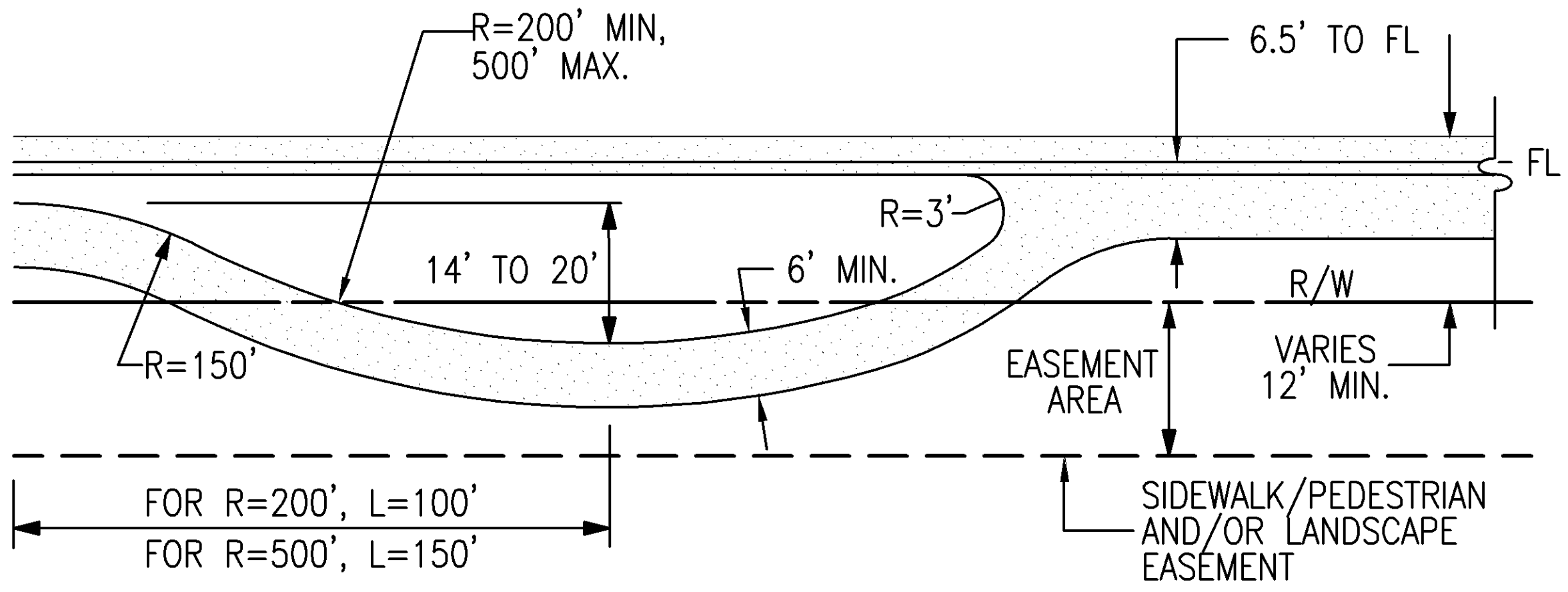


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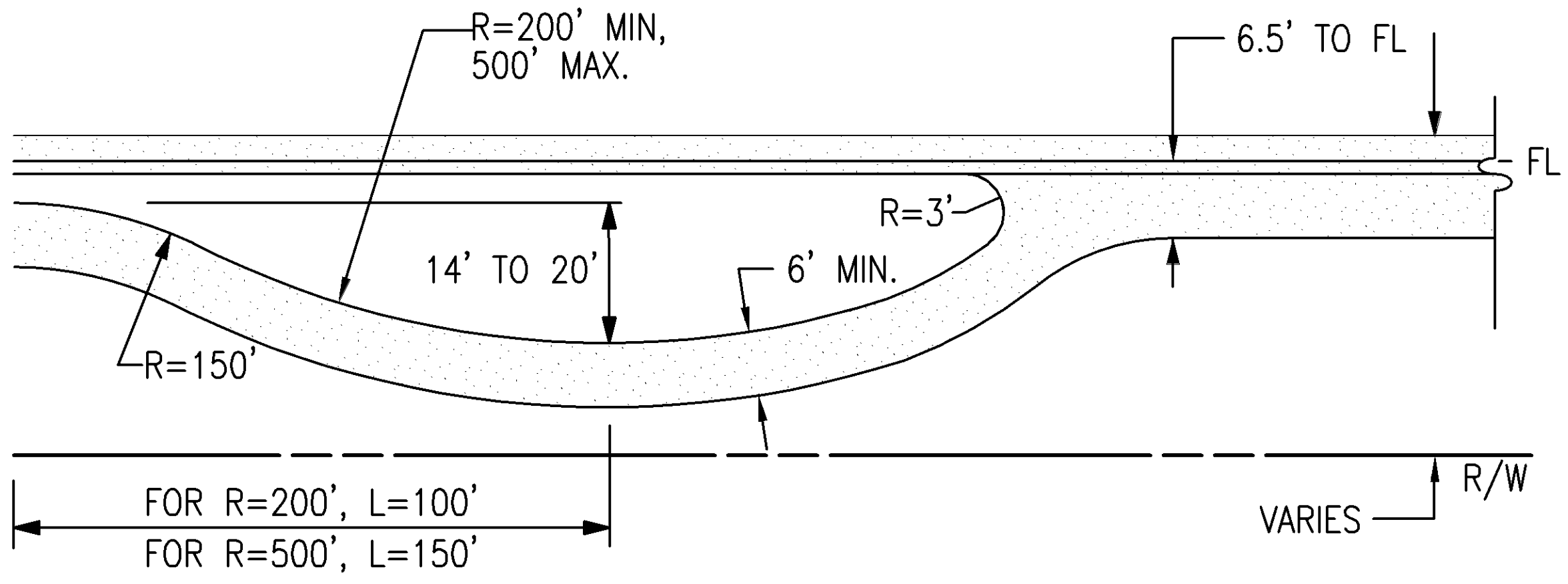
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SIDEWALK

300



EASEMENT REQUIRED



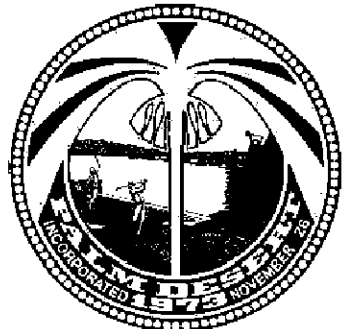
EASEMENT NOT REQUIRED

NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. MINIMUM 4-FT CLEARANCE FOR ACCESSIBILITY PATH THROUGHOUT SIDEWALK.
3. ALL SIDEWALKS SHALL BE A MINIMUM THICKNESS OF 4".
4. DIMENSIONS OF MEANDERING SIDEWALK AS SPECIFIED ON APPROVED IMPROVEMENT PLANS.
5. SPECIFIC CONSTRUCTION DETAILS SHALL BE PER CURRENT EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION MANUAL.
6. EXPANSION PAPERS & WEAKENED PLANE JOINTS TO MATCH CURB & GUTTER.
7. MEET CURRENT ADA STANDARD. CROSS SLOPE OF SIDEWALKS SHALL BE MINIMUM OF 2% OR AS SPECIFIED BY STATE AND FEDERAL ACCESSIBILITY GUIDELINES, WHICHEVER MORE RESTRICTIVE.
8. LONGITUDINAL GRADE SHALL MEET CURRENT STATE AND LOCAL ACCESSIBILITY STANDARDS. LONGITUDINAL SLOPES OF MORE THAN 8% ARE SUBJECT TO THE CITY ENGINEER APPROVAL.
9. CURB SHALL BE PER STANDARD DRAWING NO. 400 OR 403. PROVIDE EXPANSION JOINT EVERY 10-FT.
10. REMOVAL AND REPLACEMENT SHALL BE DONE TO THE NEAREST JOINT.

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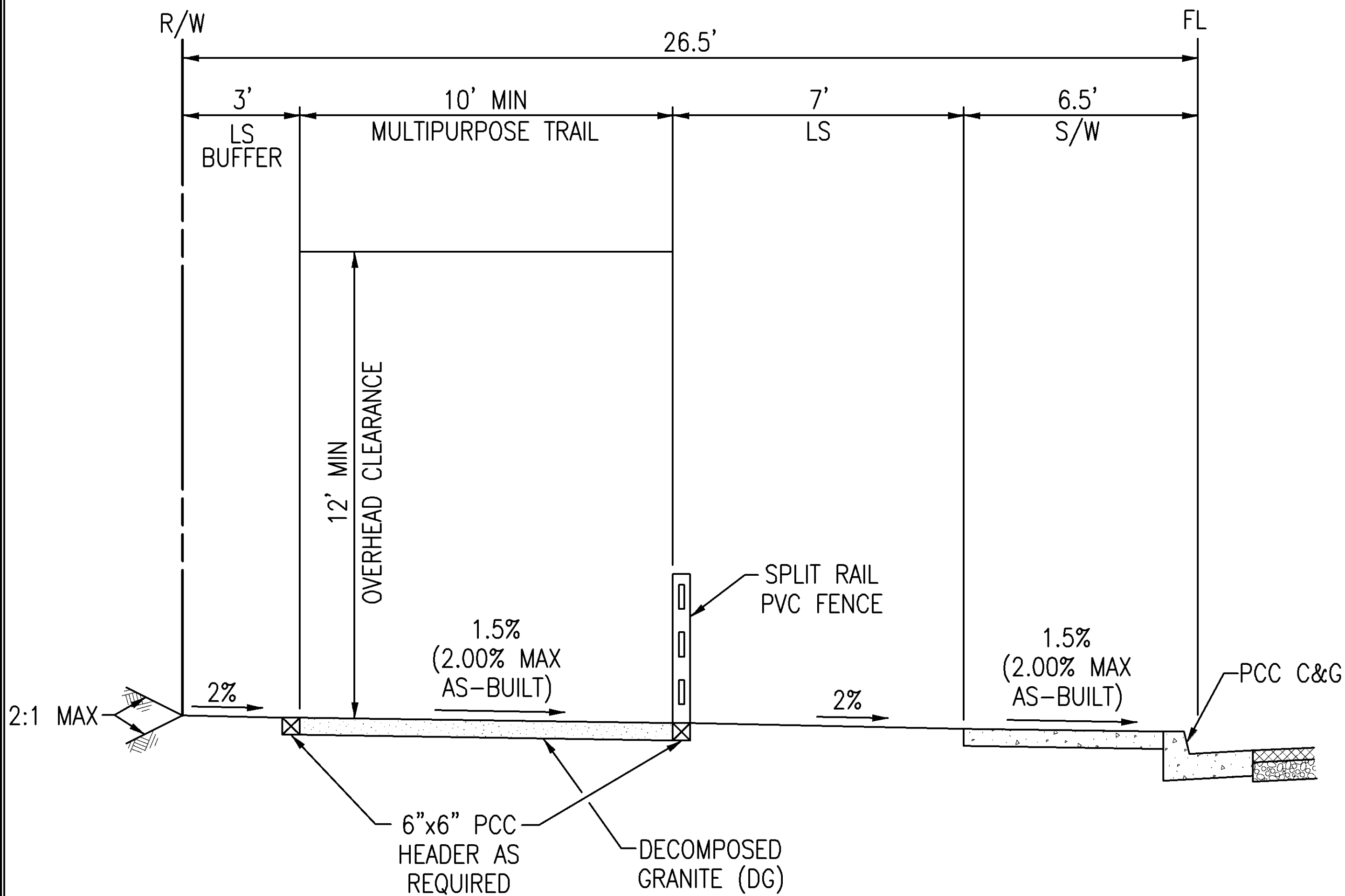
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MEANDERING
SIDEWALK

STD NO.

301

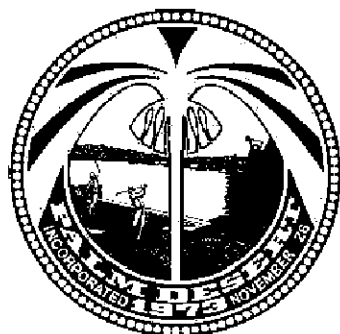


NOTES:

1. OMIT FENCE WITHIN SIGHT DISTANCE OF RESTRICTED USE AREAS.
2. TRAIL AND FENCE TO BE CONSTRUCTED PER LATEST DETAILS.
3. FOR TRAIL AND FENCE DETAILS, REFER TO THE COUNTY OF RIVERSIDE COMPREHENSIVE LANDSCAPE GUIDELINES AND STANDARDS.
4. DECOMPOSED GRANITE SHALL BE STABILIZED WITH CEMENT OR OTHER APPROVED METHOD.

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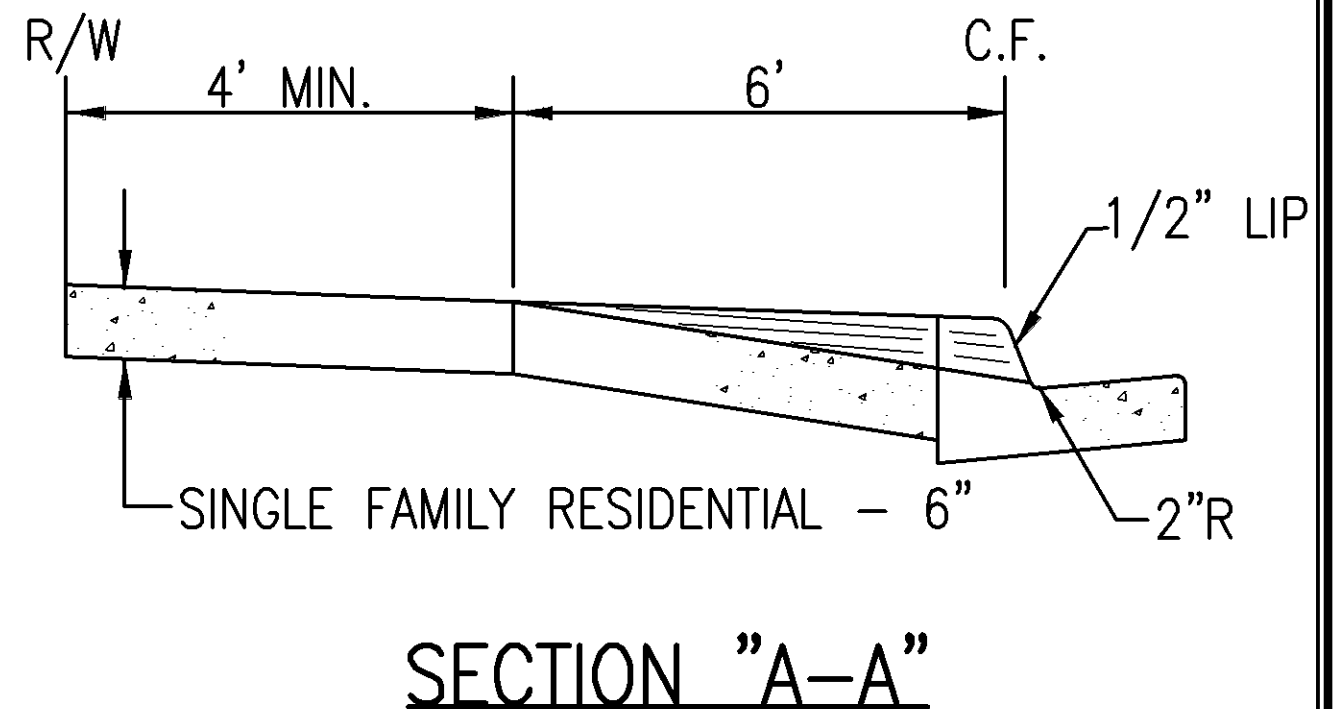
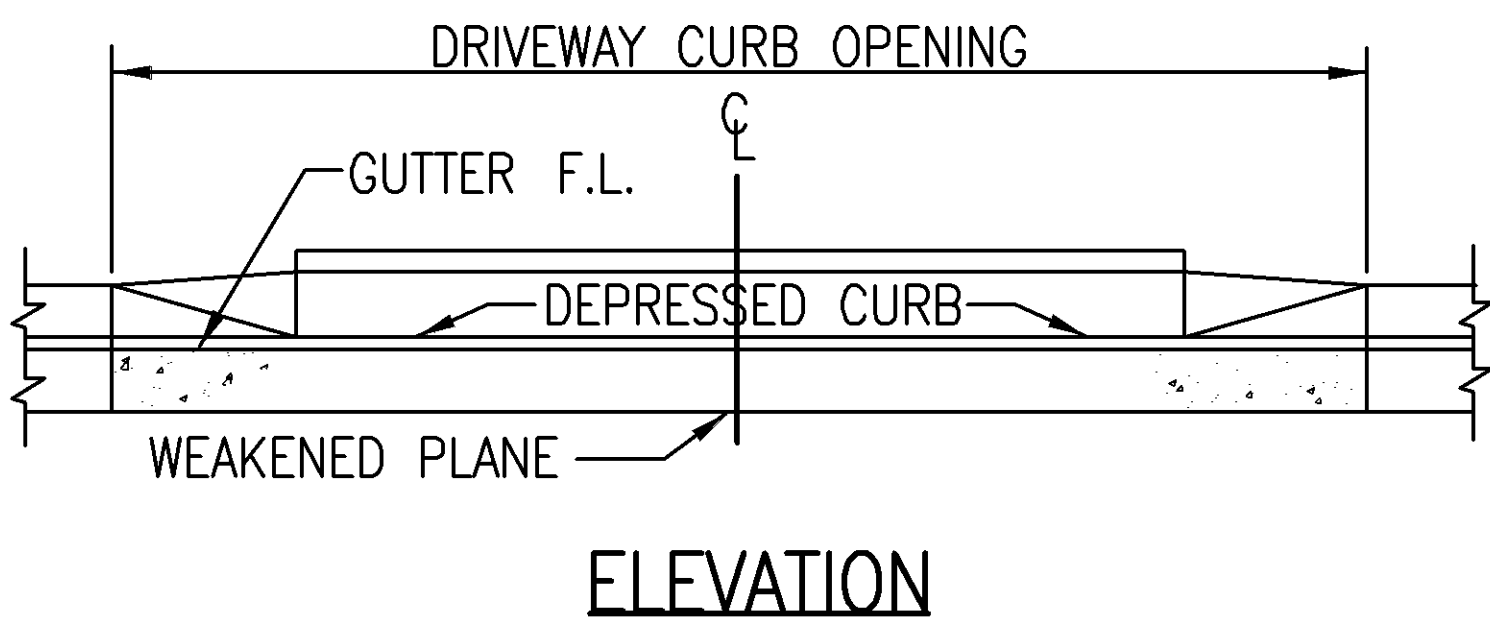
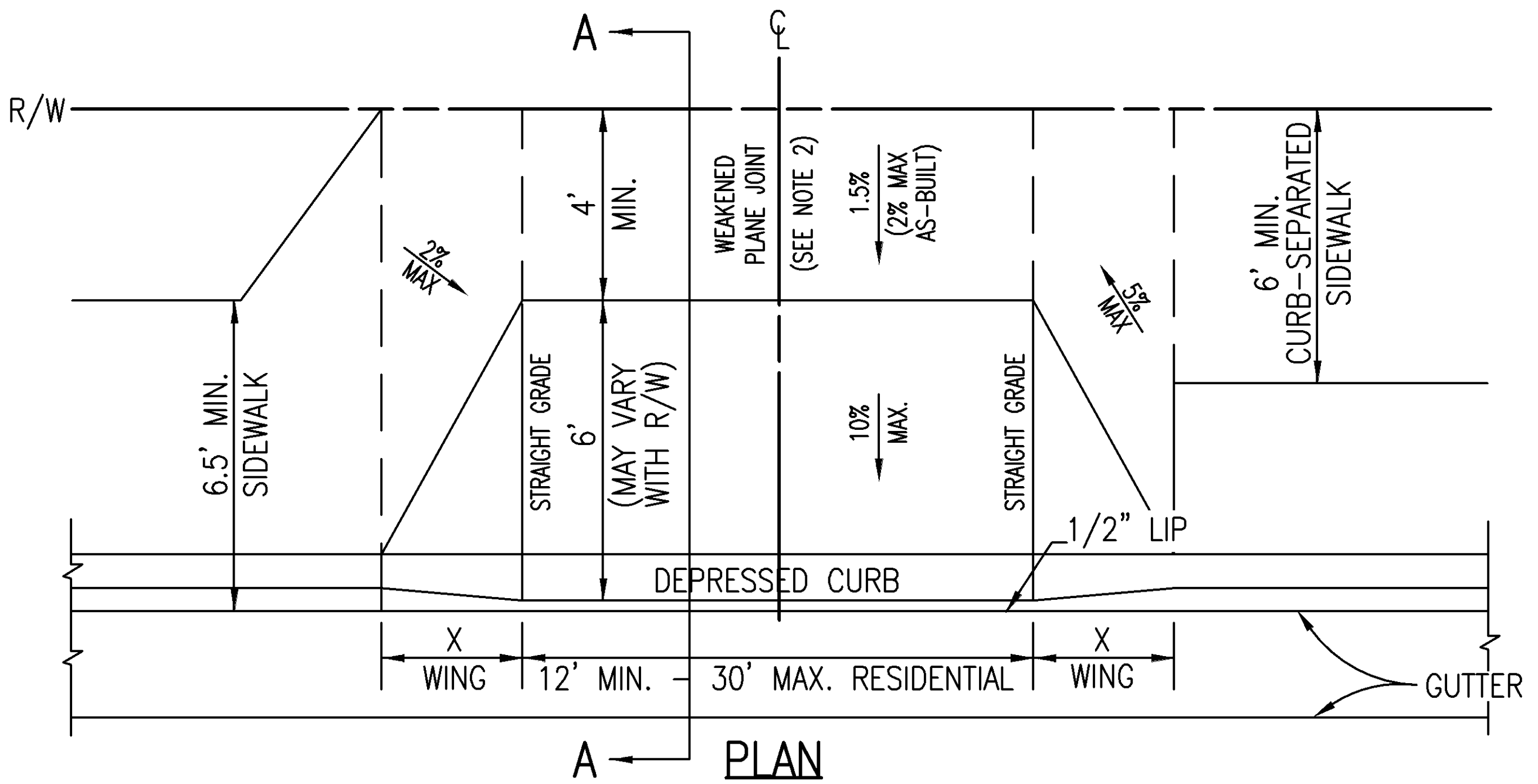
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DG MULTIPURPOSE TRAIL

STD NO.

302



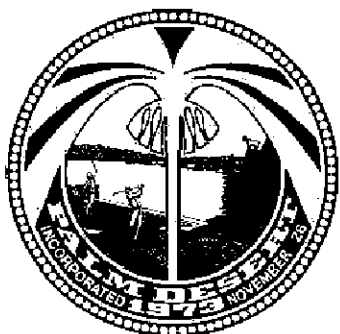
NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. WEAKENED PLANE JOINTS REQUIRED ON DRIVEWAY CL FOR DRIVEWAYS 12' TO 20' WIDE, DRIVEWAYS WIDER THAN 20' SHALL HAVE TWO WEAKENED PLANE JOINTS EVENLY SPACED. (OR 10' MIN.)
3. GRADE TO CONTROL DRIVEWAY DESIGN (OVER DISTANCE) IN ORDER TO PROVIDE UNINTERRUPTED ADA PATH OF TRAVEL

X	6" C.F.	8" C.F.
	3'	4'

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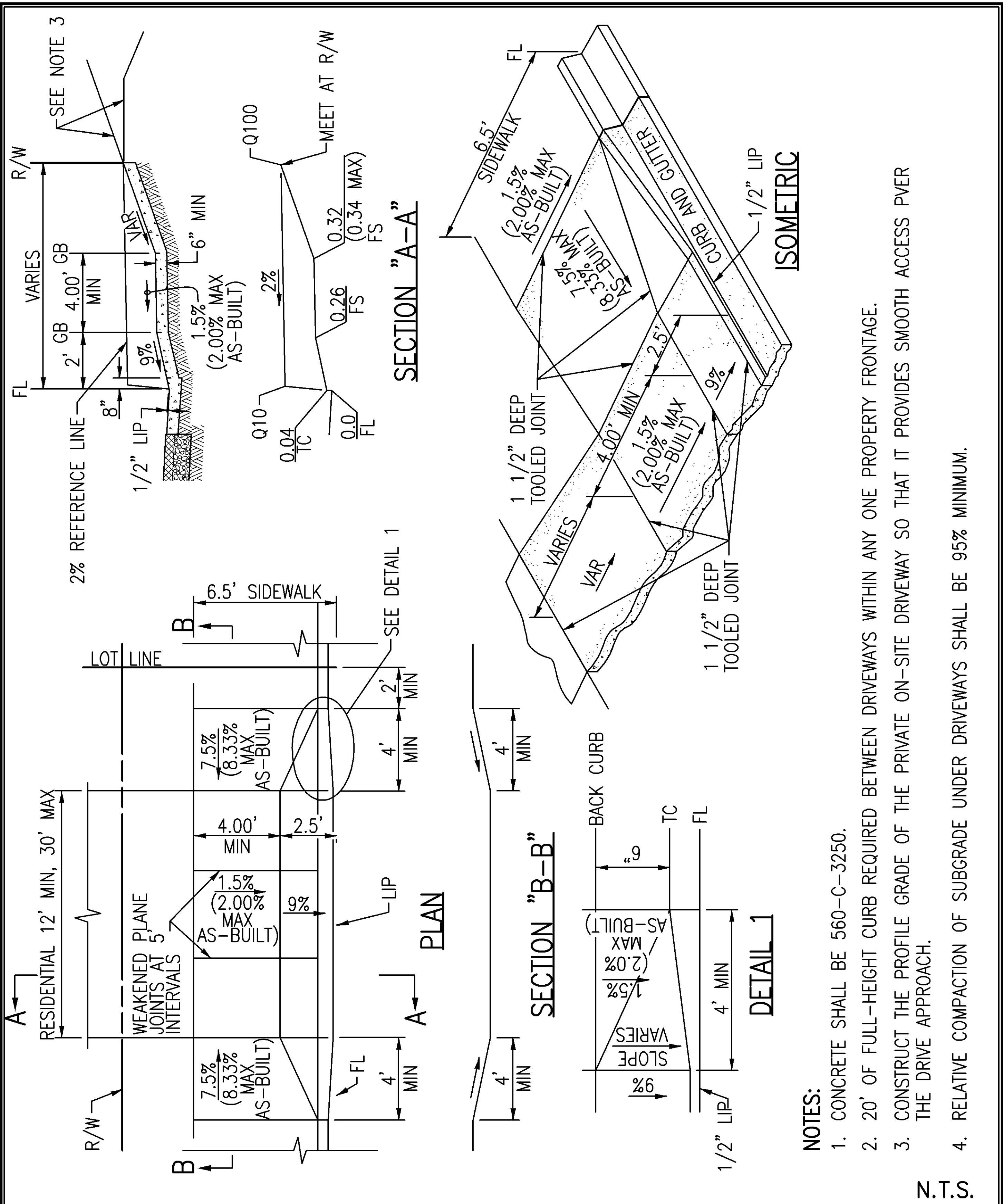
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

RESIDENTIAL DRIVEWAY
(FOR RIGHT-OF-WAY
WIDTH BEHIND CURB
OF 10' OR MORE)

303



- NOTES:**
1. CONCRETE SHALL BE 560-C-3250.
 2. 20' OF FULL-HEIGHT CURB REQUIRED BETWEEN DRIVEWAYS WITHIN ANY ONE PROPERTY FRONTAGE.
 3. CONSTRUCT THE PROFILE GRADE OF THE PRIVATE ON-SITE DRIVEWAY SO THAT IT PROVIDES SMOOTH ACCESS PVER THE DRIVE APPROACH.
 4. RELATIVE COMPACTION OF SUBGRADE UNDER DRIVEWAYS SHALL BE 95% MINIMUM.

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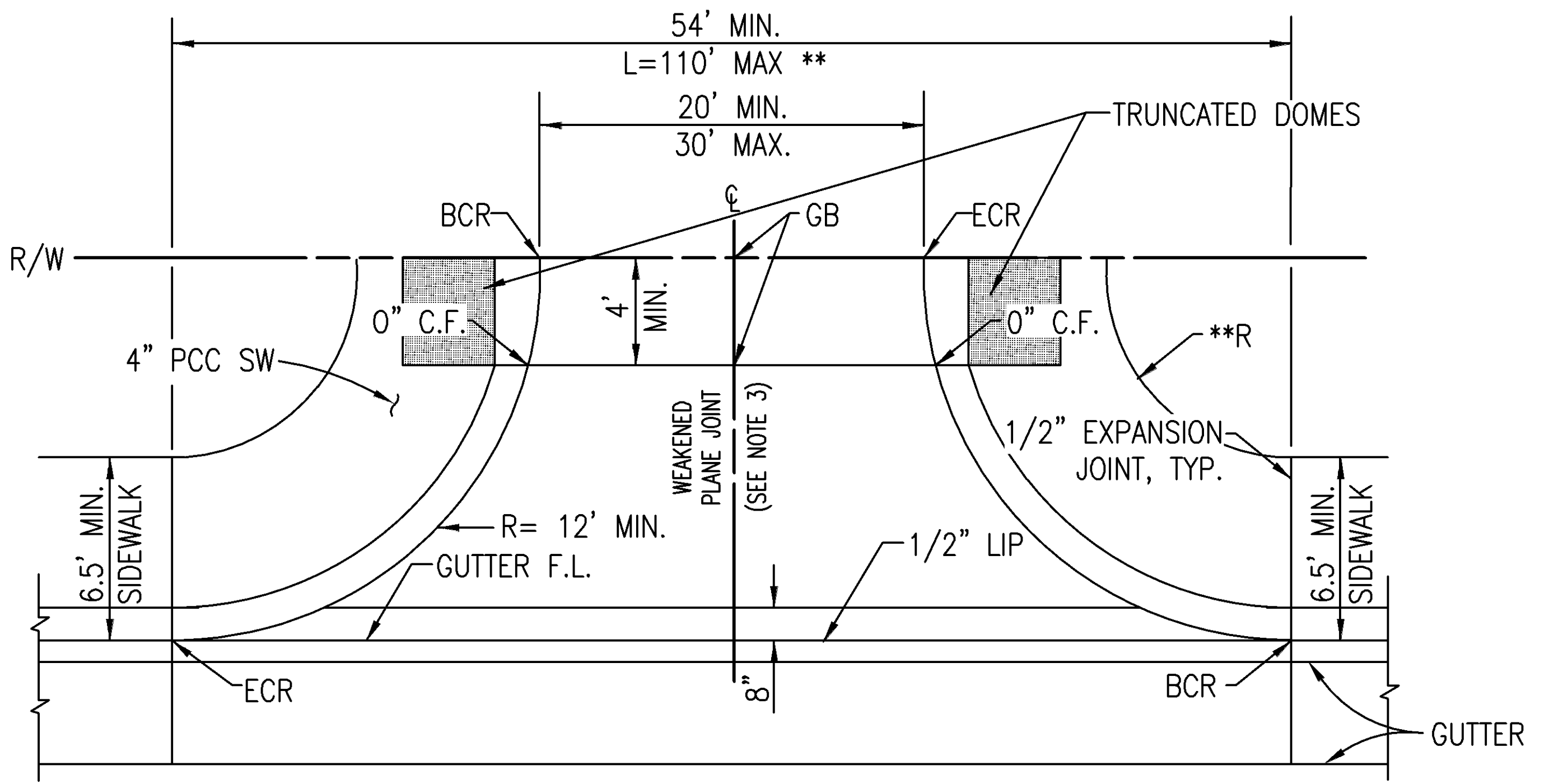
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RESIDENTIAL DRIVEWAY
APPROACH
(FOR CONFINED
RIGHT-OF-WAY)

STD NO.

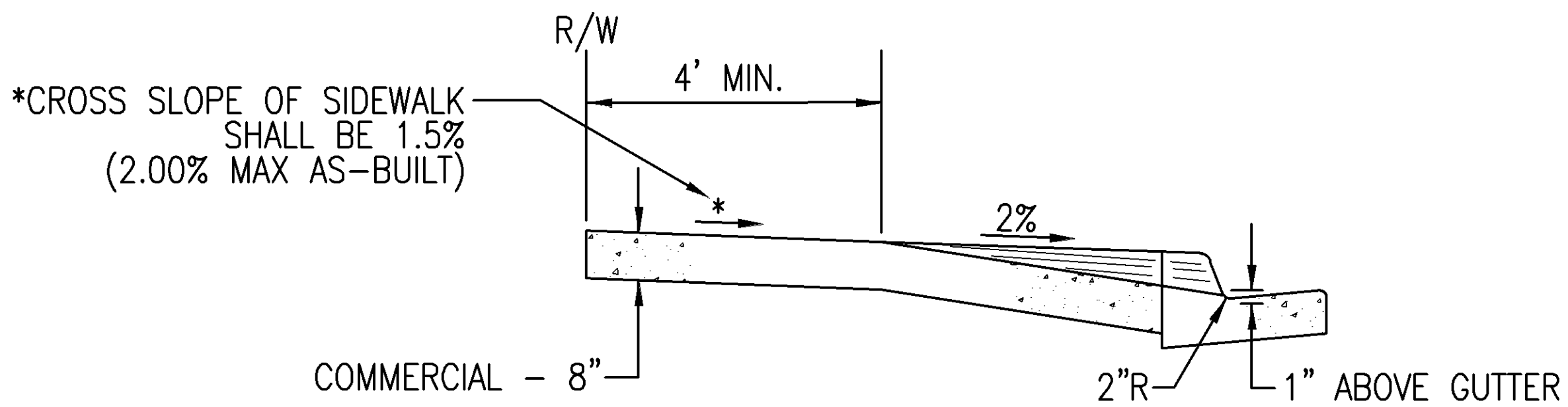
304



PLAN

R=15' MIN TO 35' MAX

** SERVICE ENTRANCES ONLY; L=140' MAX, R=50' MAX



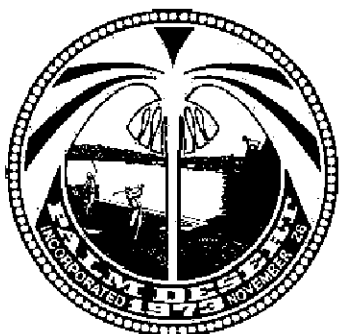
SECTION

NOTES:

1. MINIMUM REQUIRED DISTANCE BETWEEN DRIVEWAYS IN COMMERCIAL ZONE PER CITY OF ENGINEER APPROVAL.
2. ALL CONCRETE SHALL BE 560-C-3250.
3. WEAKENED PLANE JOINTS REQUIRED ON DRIVEWAY ϕ FOR DRIVEWAYS 12' TO 20' WIDE, DRIVEWAYS WIDER THAN 20' SHALL HAVE TWO WEAKENED PLANE JOINTS EVENLY SPACED. (MIN. 10' APART)
4. COMMERCIAL DRIVEWAYS PROPOSING/REQUIRING AN ENTRANCE MEDIAN: MEDIAN SHALL BE LOCATED BEHIND PROPERTY/RIGHT-OF-WAY LINE. DRIVEWAY DESIGN IS SUBJECT TO THE CITY ENGINEER APPROVAL.
5. TRUNCATED DOMES SHALL BE CAST-IN-PLACE, REPLACEABLE, FEDERAL YELLOW IN COLOR.

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COMMERCIAL
DRIVEWAY

STD NO.

305

SINGLE RAMP
RADIUS < 35'

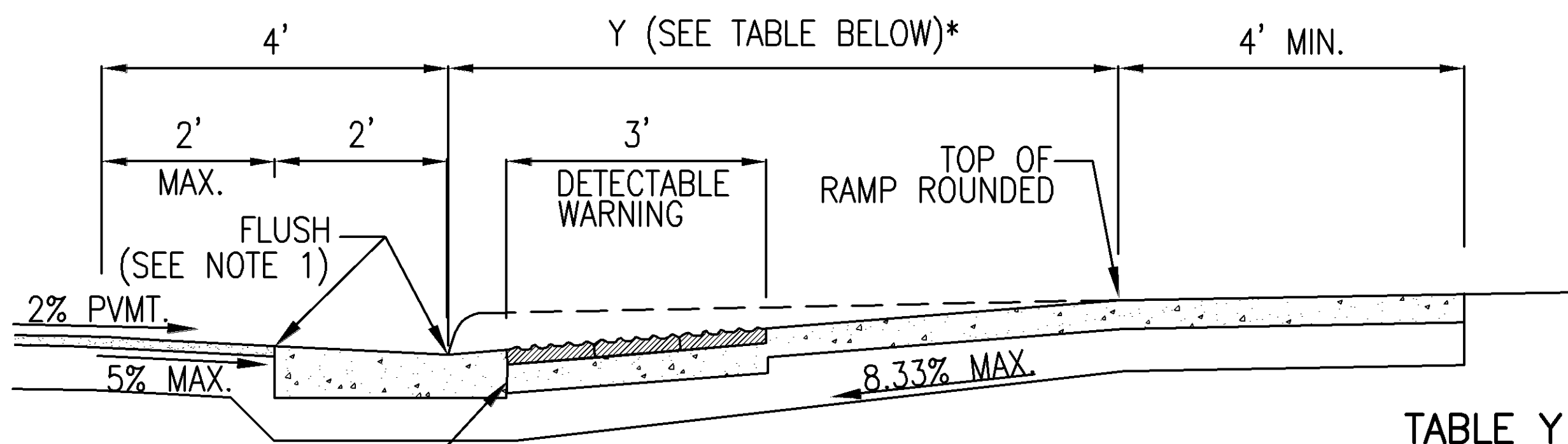
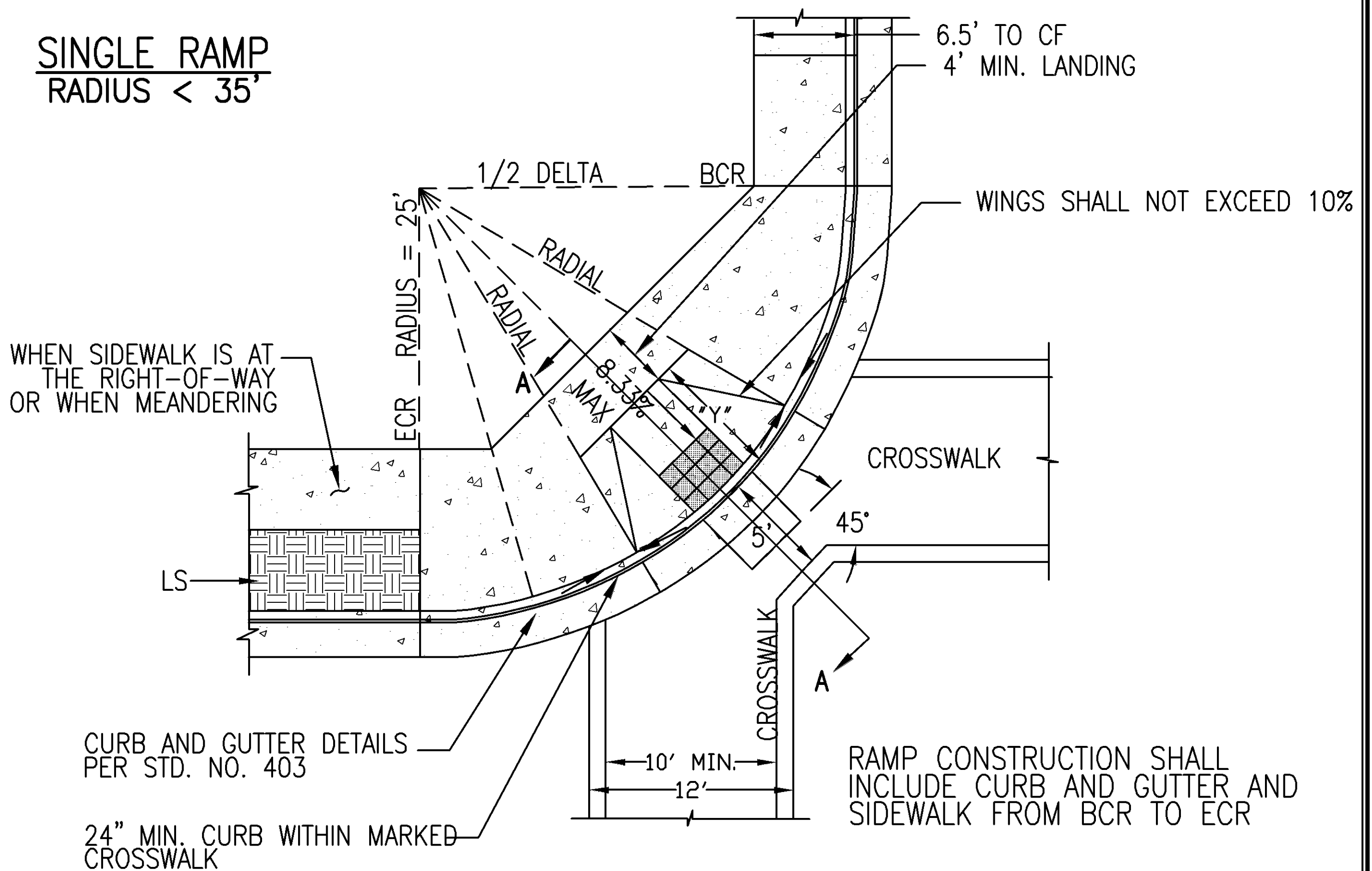


TABLE Y

CF	Y*
6"	7.90'
8"	10.53'

$$Y = \frac{\text{CURB FACE (FT)}}{6.33\%}$$

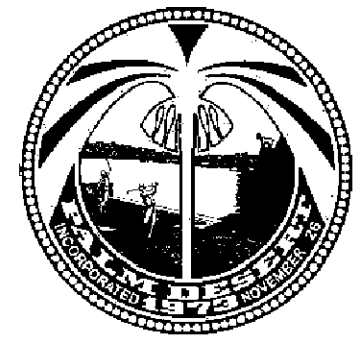
NOTES:

1. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. TRUNCATED DOMES SHALL BE CAST-IN-PLACE, REPLACEABLE, FEDERAL YELLOW IN COLOR.
3. MODIFICATION TO MEET CURRENT ADA STANDARDS MAY BE REQUIRED BY THE CITY ENGINEER.

* 'Y' SHALL NOT EXCEED 10.53', UNLESS APPROVED BY THE CITY ENGINEER

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

SINGLE CURB RAMP

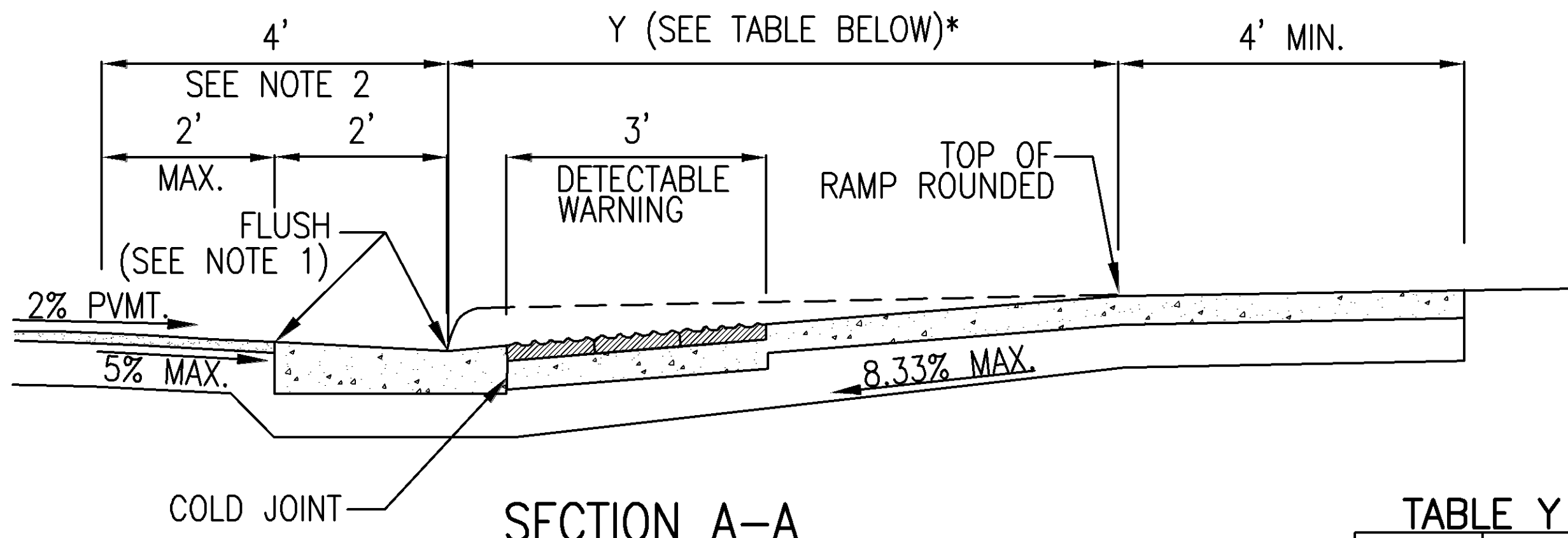
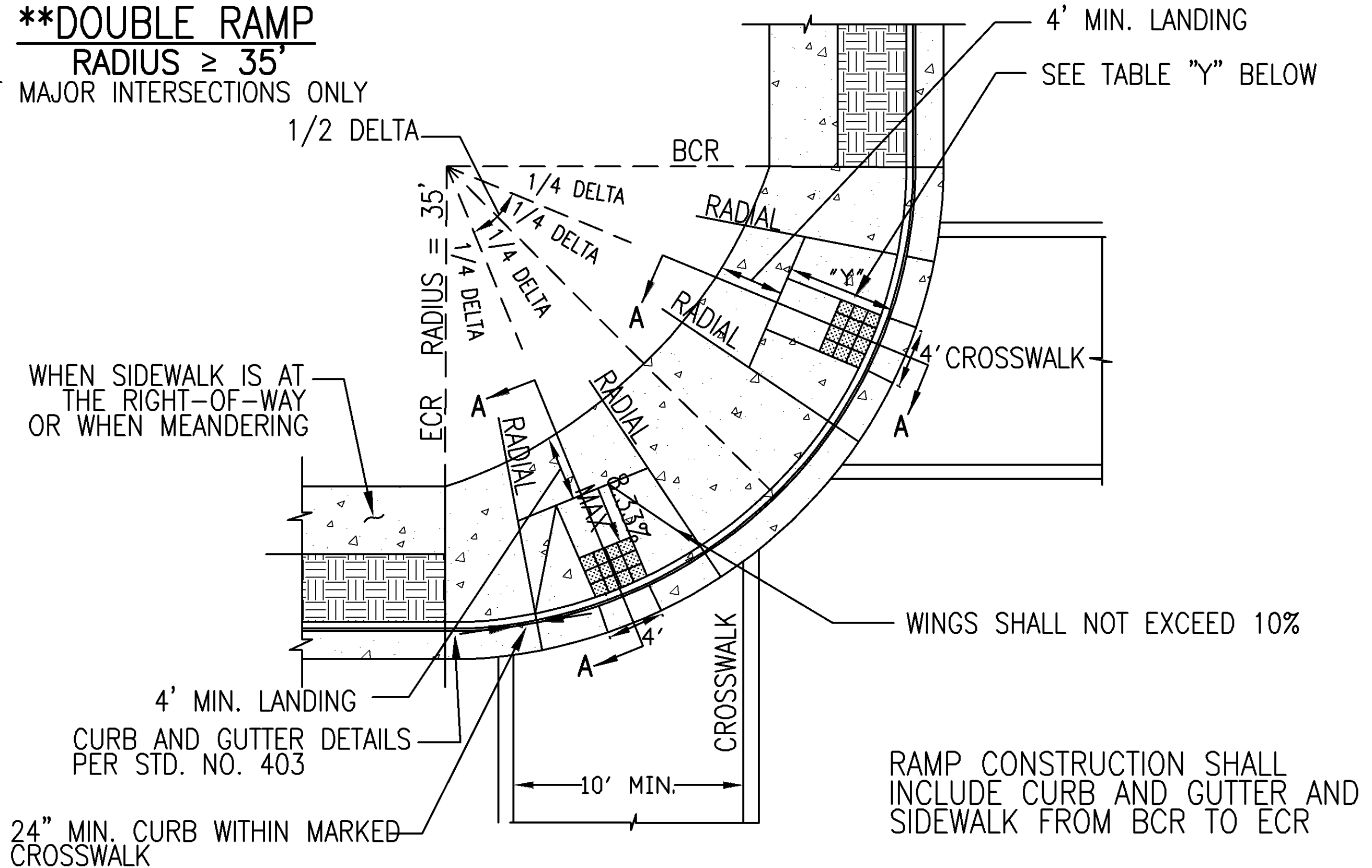
STD NO.

306

****DOUBLE RAMP**

RADIUS ≥ 35'

AT MAJOR INTERSECTIONS ONLY



SECTION A-A

TABLE Y

CF	Y*
6"	7.90'
8"	10.53'

$$Y = \frac{\text{CURB FACE (FT)}}{6.33\%}$$

NOTES:

1. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. MAXIMUM SLOPES OF ADJOINING GUTTERS: THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4 FEET OF THE BOTTOM OF THE CURB RAMP.
3. TRUNCATED DOMES SHALL BE CAST-IN-PLACE, REPLACEABLE, FEDERAL YELLOW IN COLOR.

* 'Y' SHALL NOT EXCEED 10.53', UNLESS APPROVED BY THE CITY ENGINEER
 ** ELIMINATE ONE RAMP IF NO FUTURE PATH OF TRAVEL EXISTS

N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

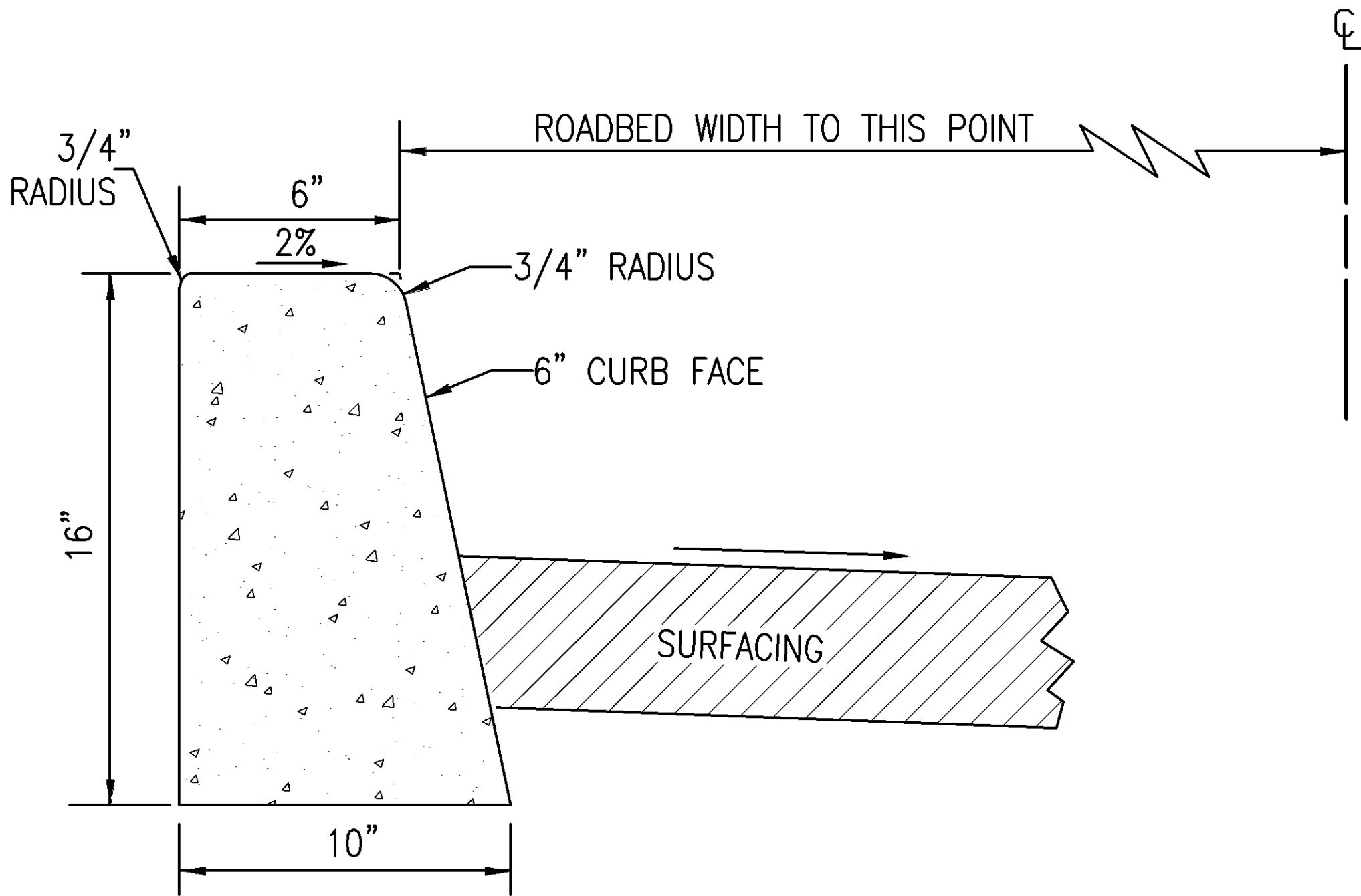


CITY ENGINEER

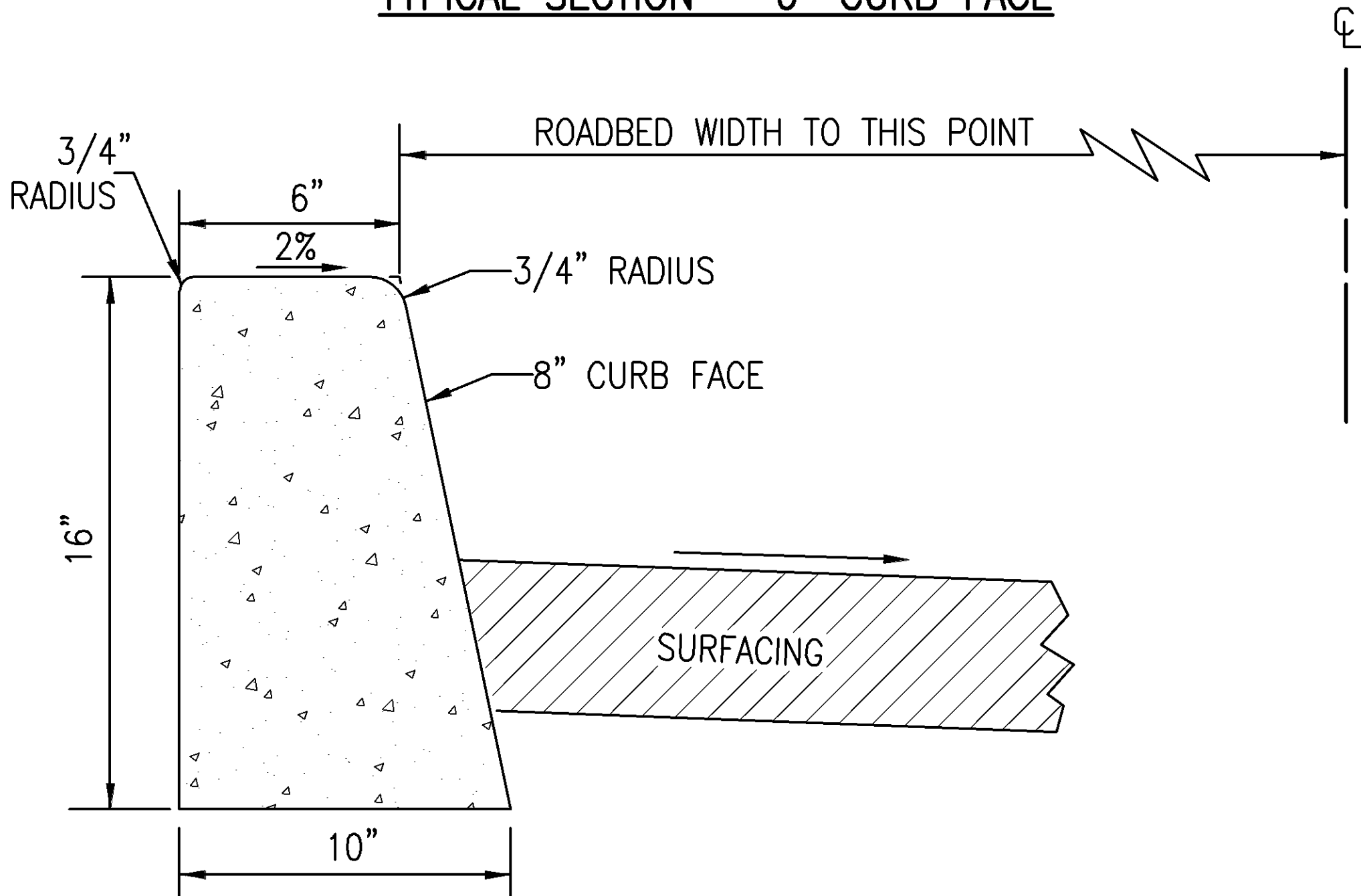
DATE

DUAL CURB RAMP

307



TYPICAL SECTION - 6" CURB FACE



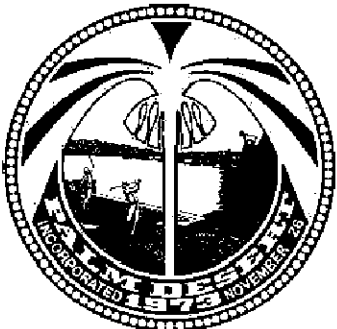
TYPICAL SECTION - 8" CURB FACE

NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. CU. YD. = 30.41 L.F. } 8" CURB
3. 0.888 CU. FT./LF. }
4. WEAKENED PLANE JOINT EVERY 10' O.C.
5. EXPANSION PAPER REQUIRED EVERY 50', AT THE TOPS OF DRIVEWAY X's, AND AT ECR's & BCR's.
6. REMOVAL AND REPLACEMENT SHALL BE DONE TO THE NEAREST JOINT.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

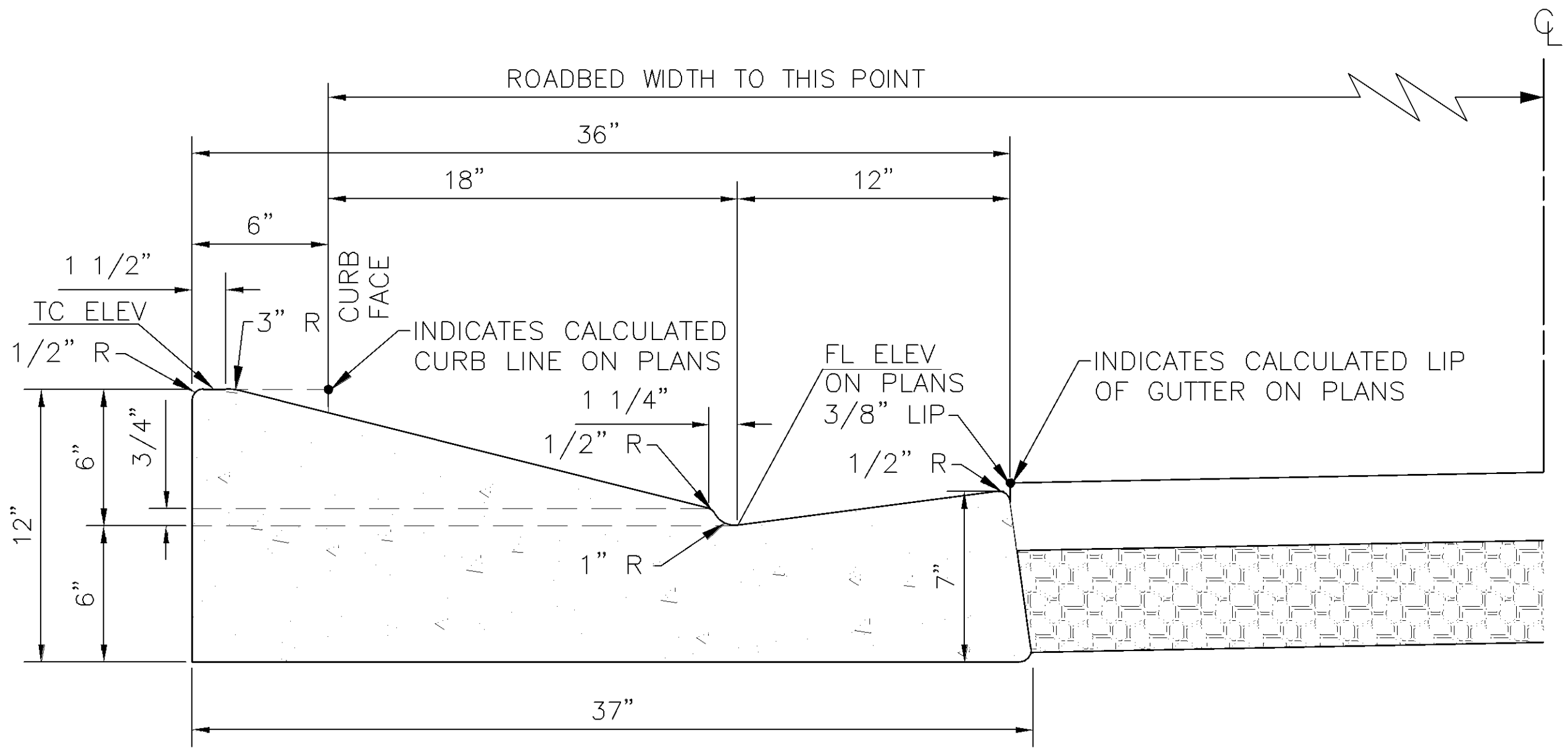
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

CURB ONLY

400



WEDGE CURB

NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND
2. CU. YD. = 16.21 L.F.
3. RELATIVE COMPACTION OF SUBGRADE UNDER CURB AND GUTTER SHALL BE 95% MIN.
4. WEEKEND PLANE JOINT EVERY 10' O.C.
5. EXPANSION PAPER REQUIRED EVERY 50', AND AT ECR'S AND BCR'S.

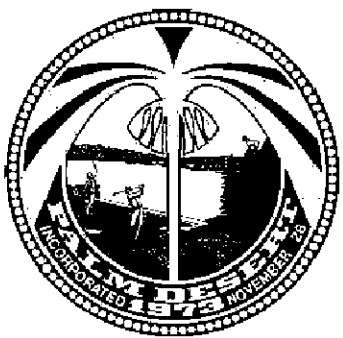
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

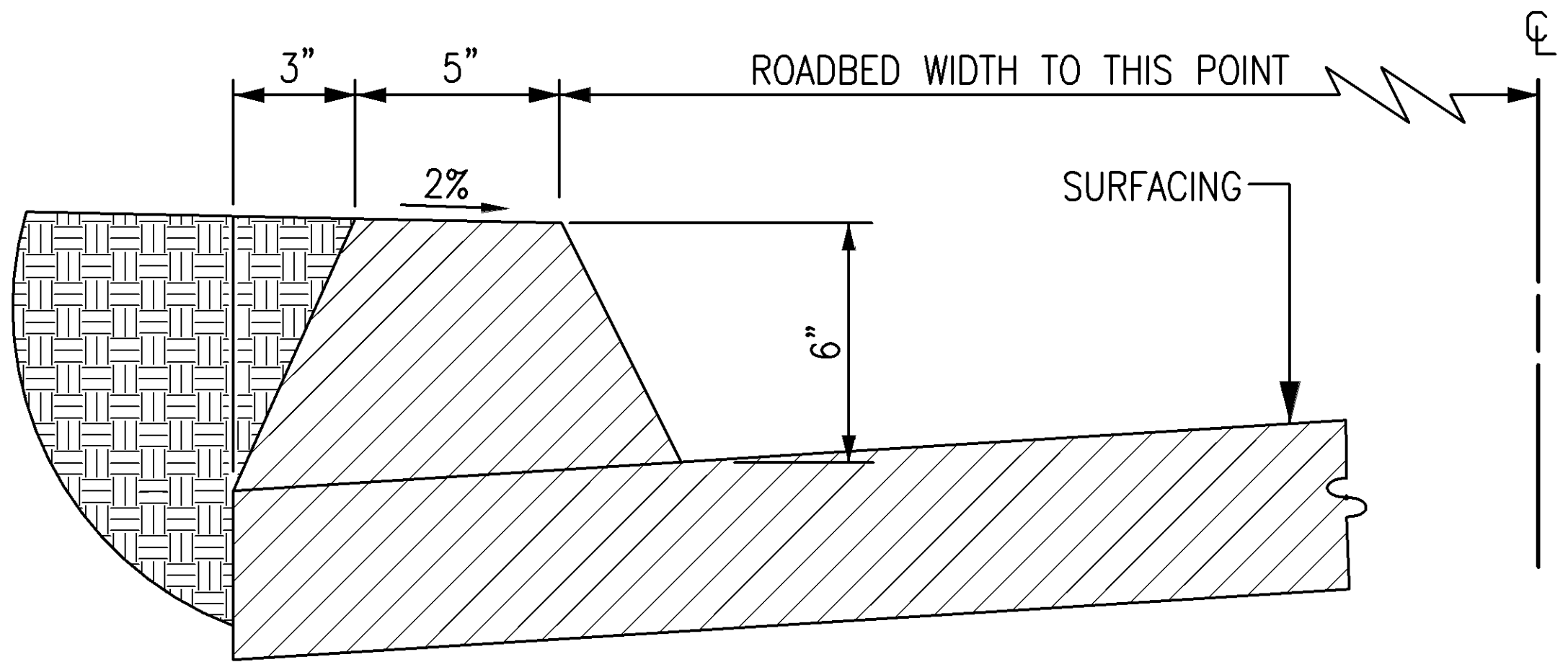


CITY ENGINEER

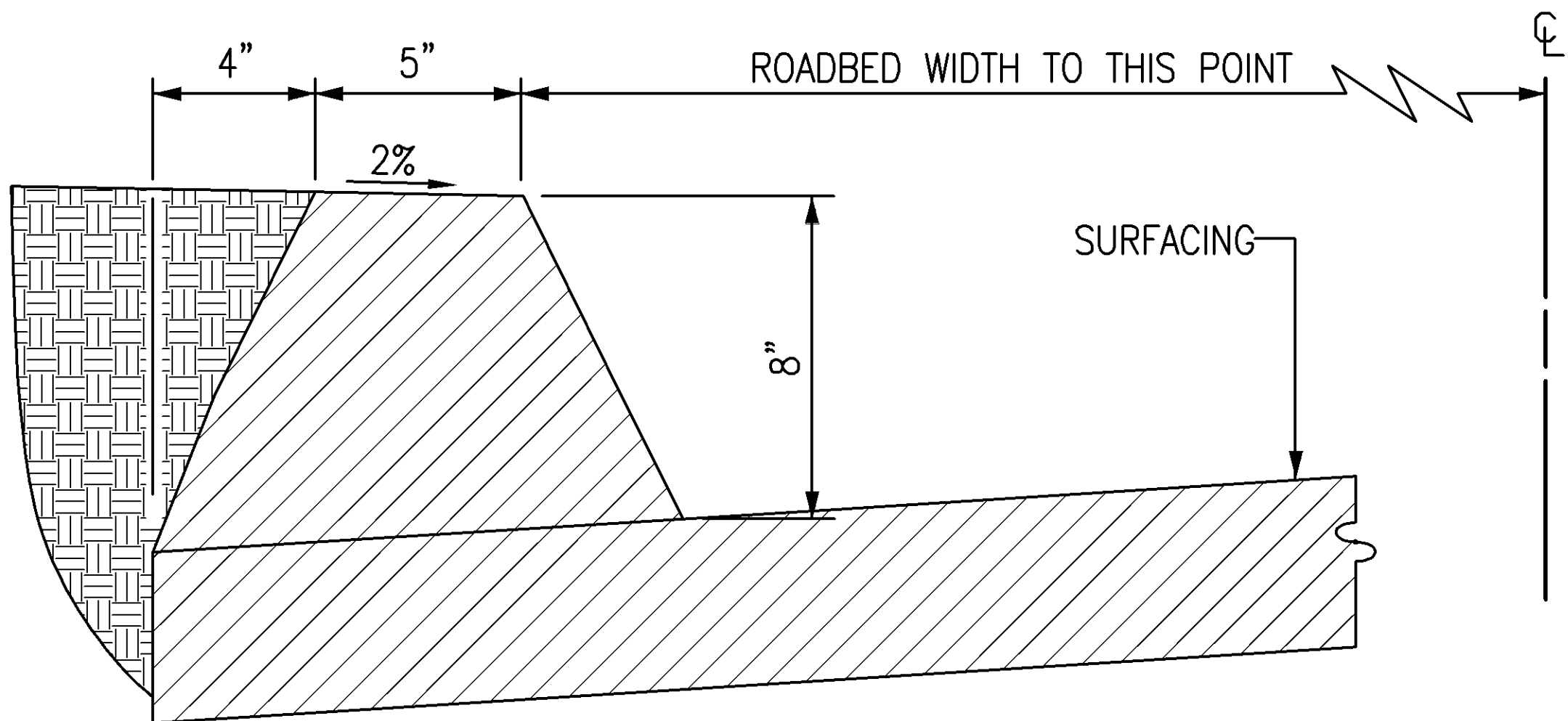
DATE

WEDGE CURB

401



6" A.C. BERM



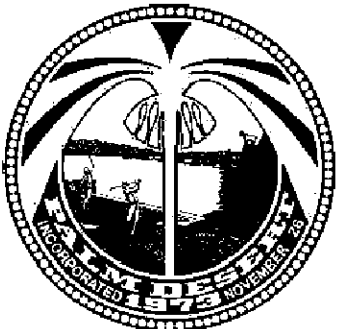
8" A.C. BERM

NOTES:

1. A.C. BERM REQUIRED WHERE FILL SLOPES ARE STEEPER THAN 4:1, MATERIAL IS SUSCEPTIBLE TO EROSION, OR WHERE ROADWAY GRADIENT EXCEEDS 3%.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

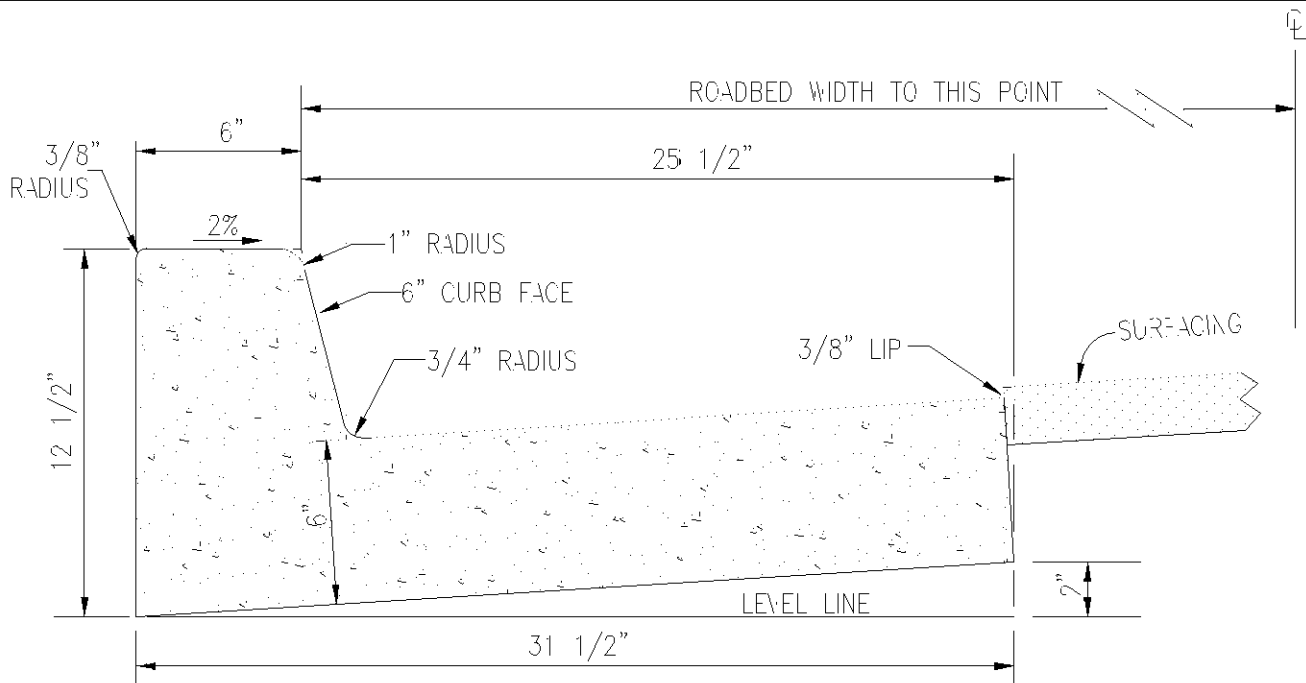
DATE

DEPARTMENT OF PUBLIC WORKS

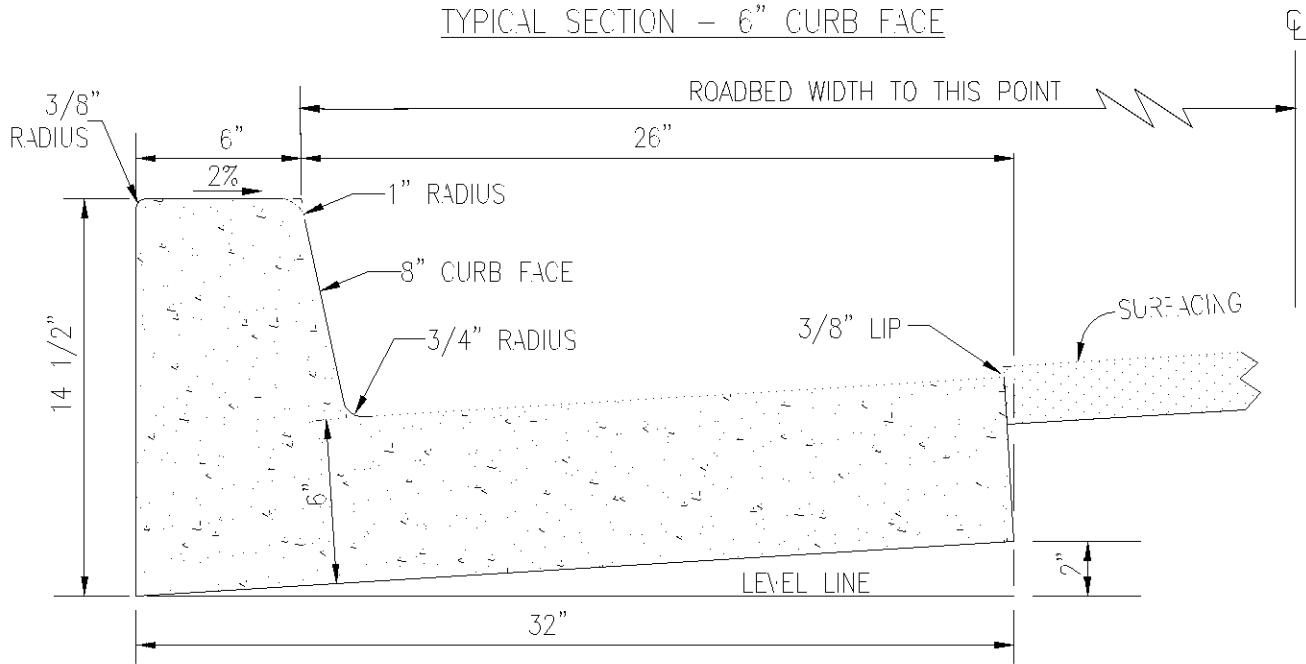
ASPHALT CONCRETE
BERM

STD NO.

402



TYPICAL SECTION - 6" CURB FACE



TYPICAL SECTION - 8" CURB FACE

NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. WEAKENED PLANE JOINT EVERY 10' O.C.
3. REMOVAL AND REPLACEMENT SHALL BE DONE TO THE NEAREST JOINT.
4. CURB FACE SHALL BE AS SPECIFIED ON PLANS.
5. EXPANSION PAPER REQUIRED EVERY 50', AT THE TOPS OF DRIVEWAY X's, AND AT ECR's & BCR's.

N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

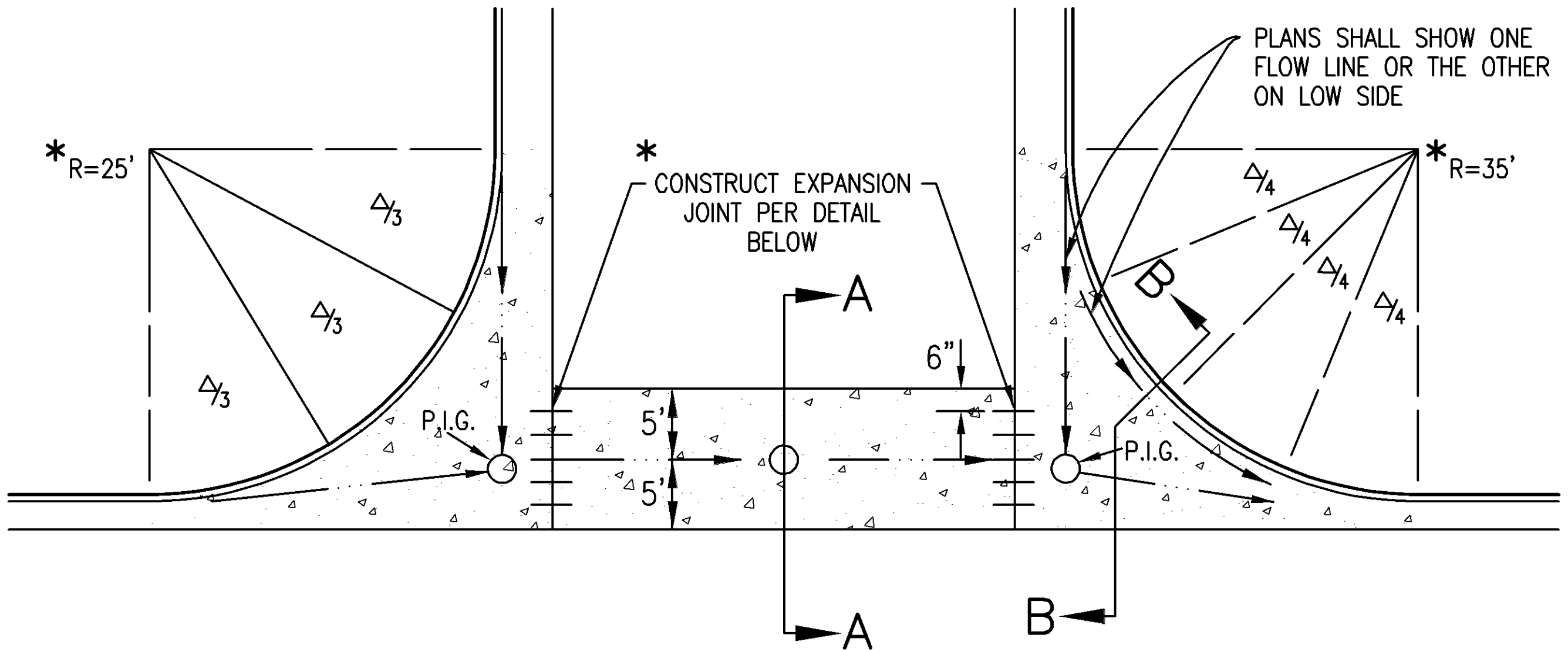


CITY ENGINEER

DATE

CURB AND GUTTER

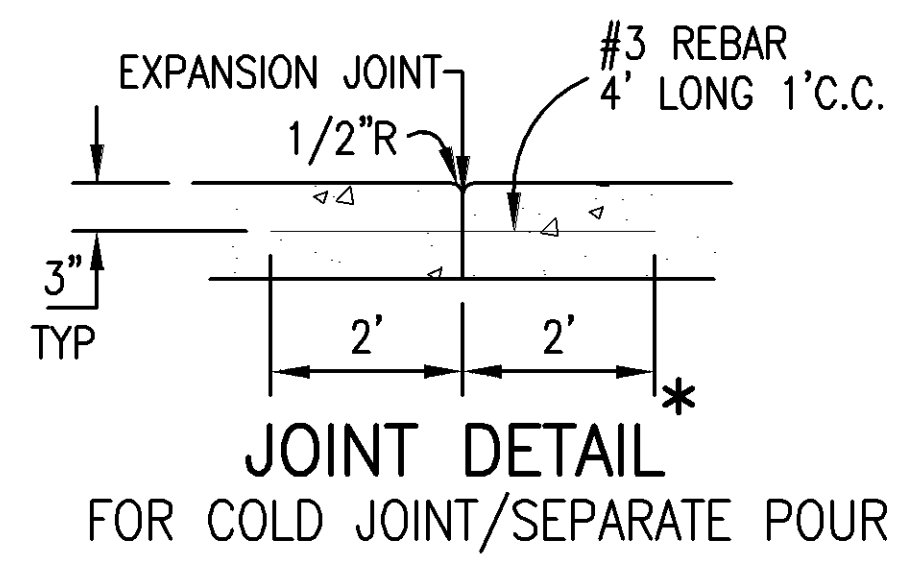
403



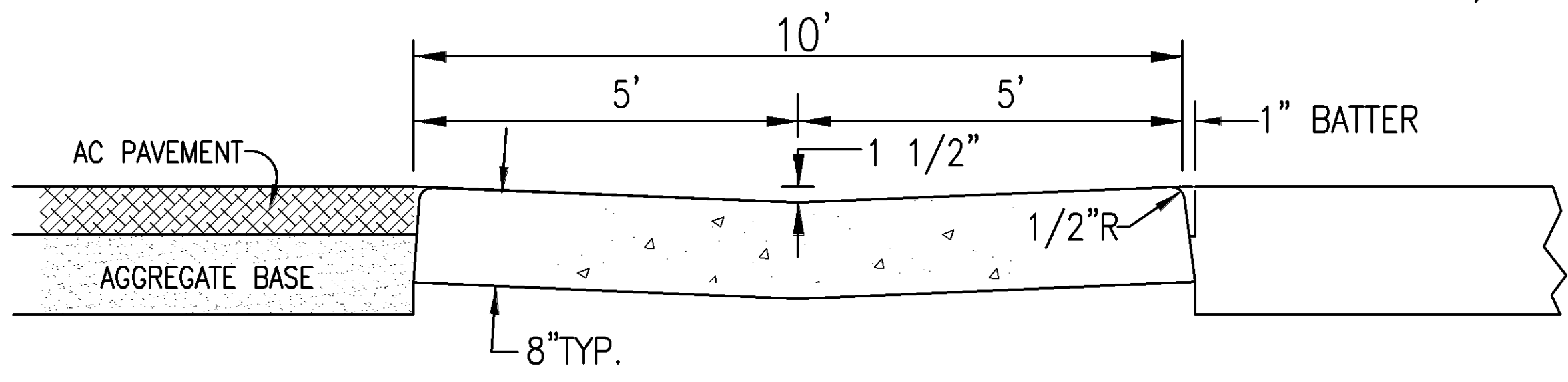
PLANS SHALL SHOW ONE FLOW LINE OR THE OTHER ON LOW SIDE

* NOTE: USE WHEN SEPARATE POURS MADE

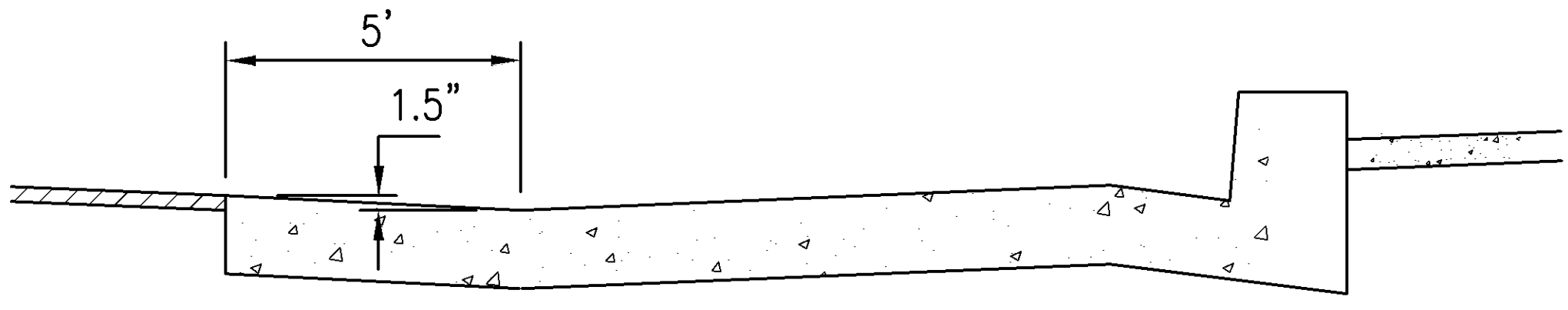
PLAN



JOINT DETAIL
FOR COLD JOINT/SEPARATE POUR



SECTION A-A



SECTION B-B

NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. = TYPICAL FLOWLINES
3. ○ = ELEVATIONS TO BE SHOWN ON PLANS
4. ENGINEER OF RECORD SHALL PROVIDE DETAIL SHOWING ACCESSIBLE PATH OF TRAVEL COMPLIANT WITH CURRENT ADA STANDARDS FOR ALL INTERSECTIONS AT CROSSINGS ON VERTICAL CURVES.
5. CURB RAMPS SHALL MEET CURRENT ADA STANDARDS.

N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

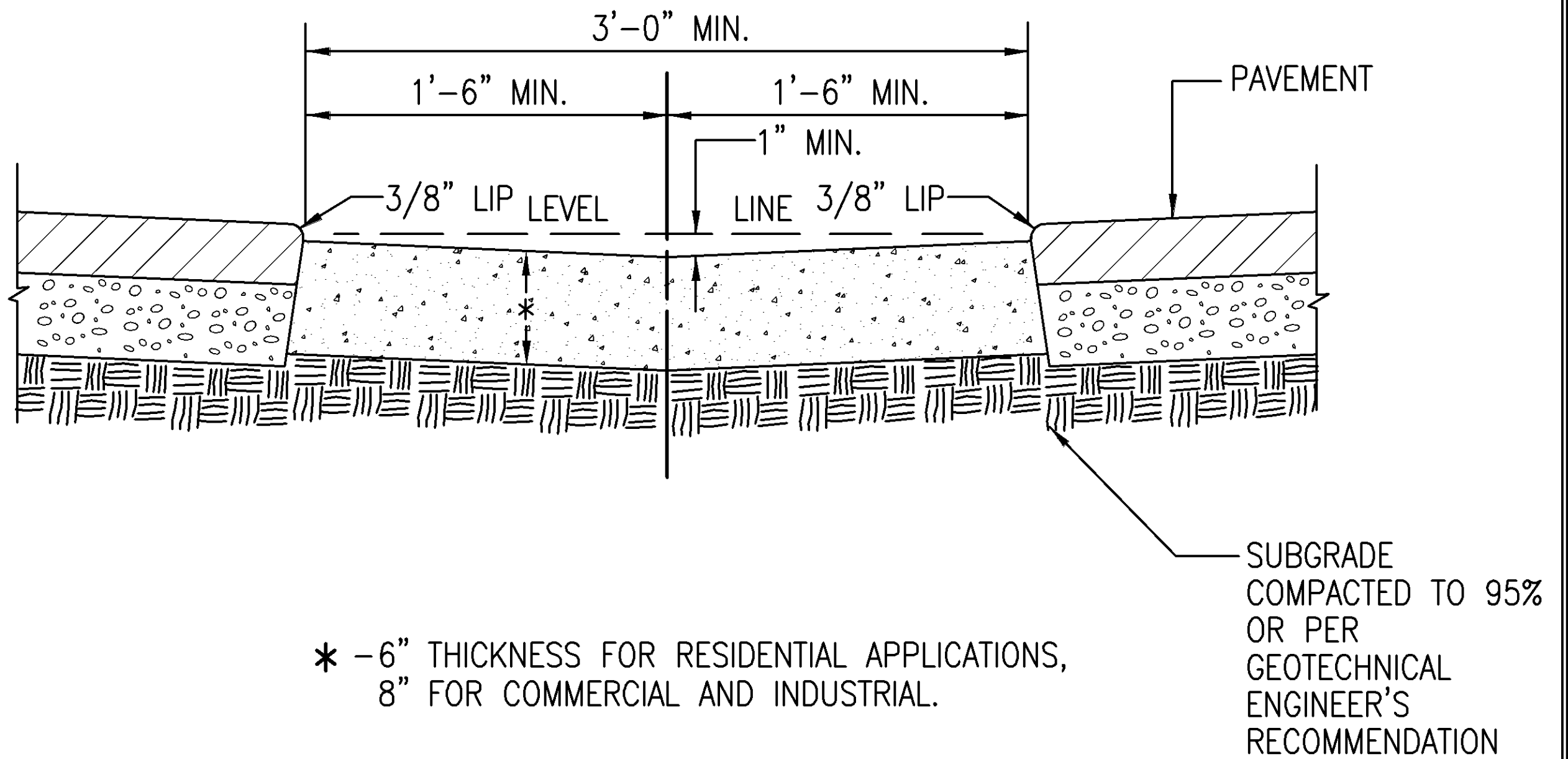


CITY ENGINEER

DATE

CROSS GUTTER

404



NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250 WITH CURING COMPOUND.
2. WEAKENED PLANE JOINTS EVERY 10' O.C.
3. EXPANSION PAPER REQUIRED EVERY 50'.

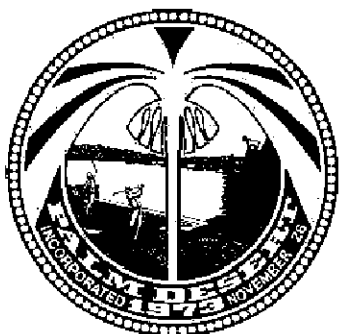
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

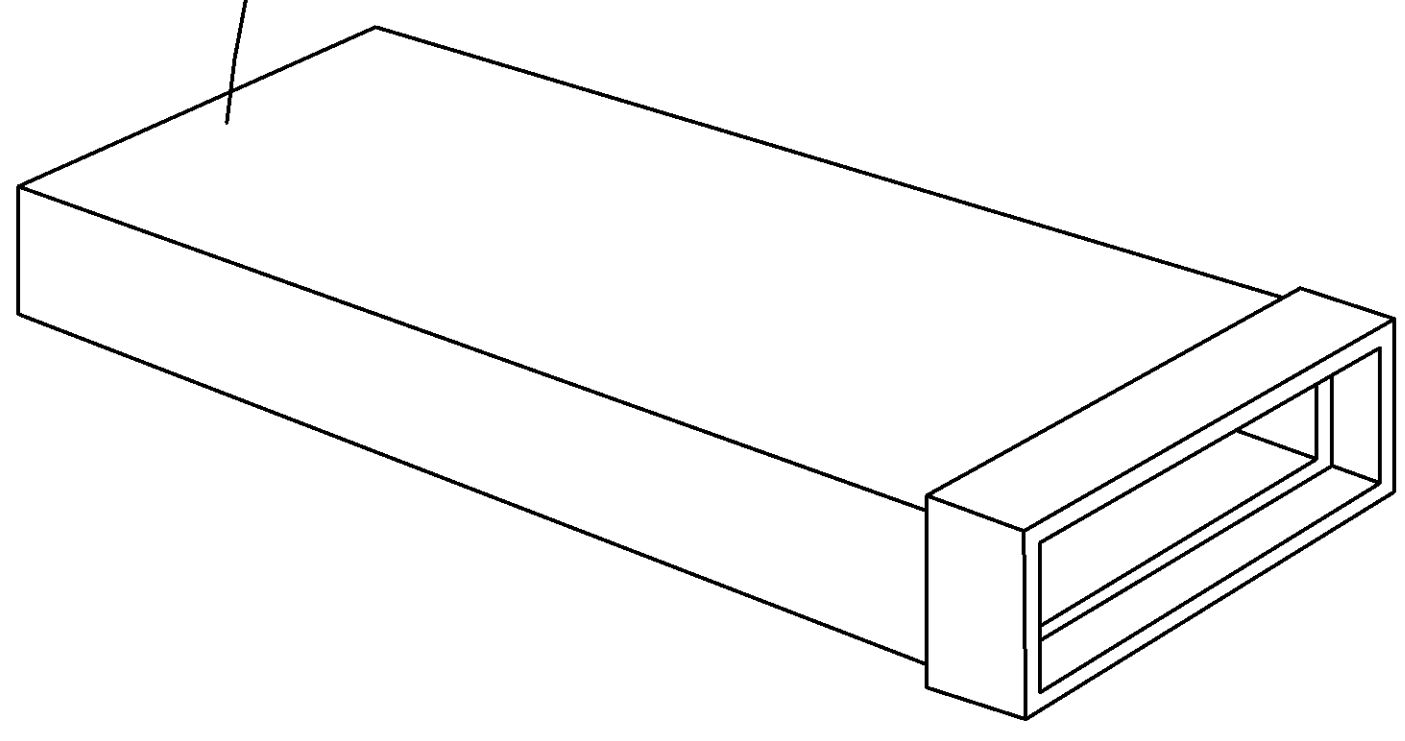
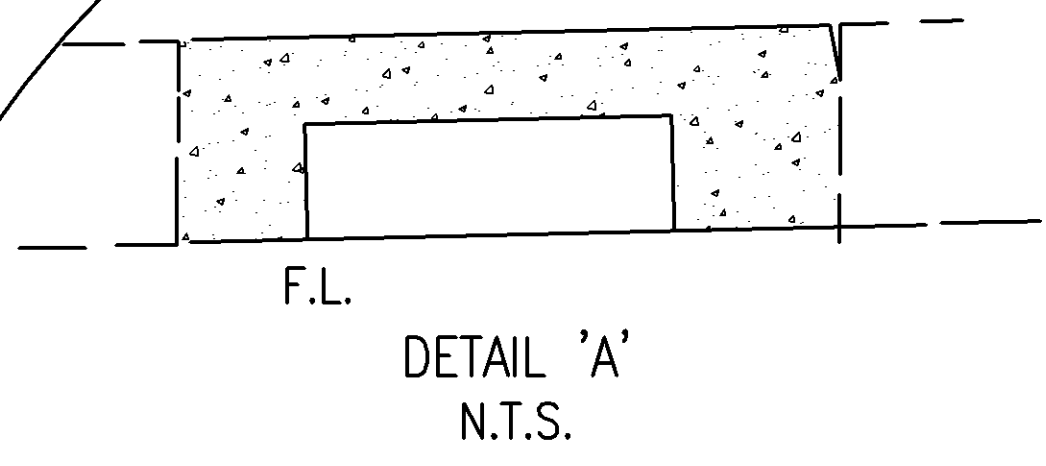
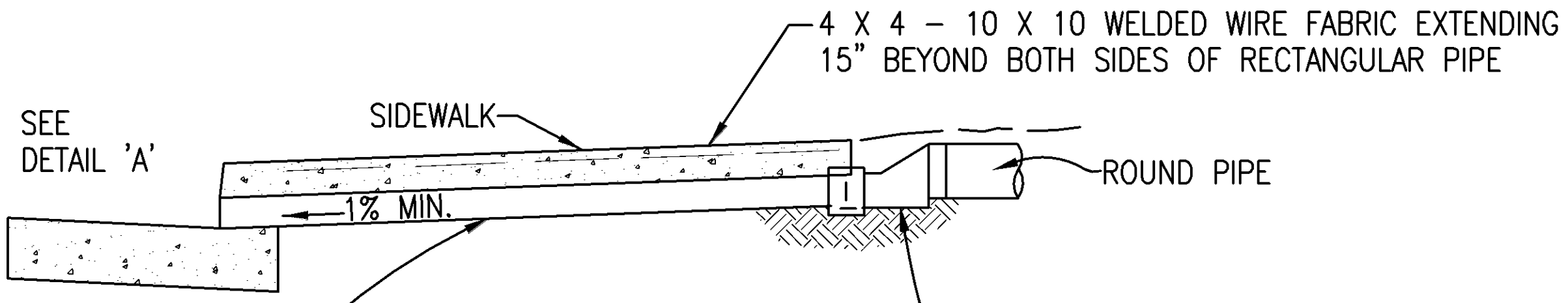


CITY ENGINEER

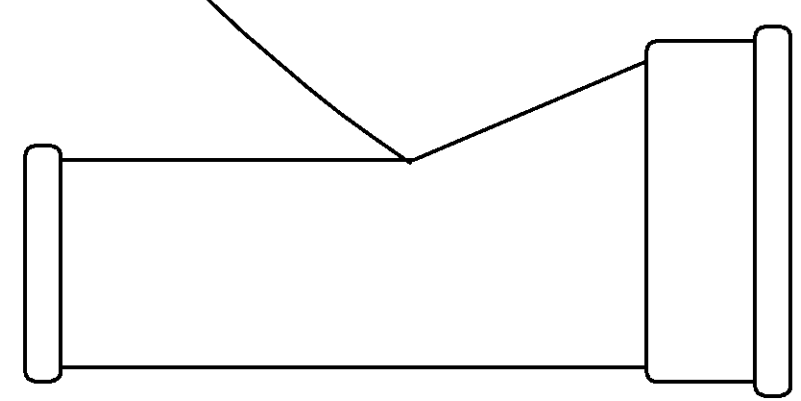
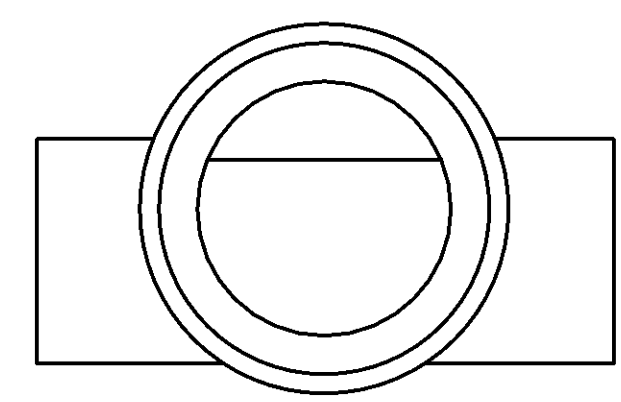
DATE

VALLEY
GUTTER

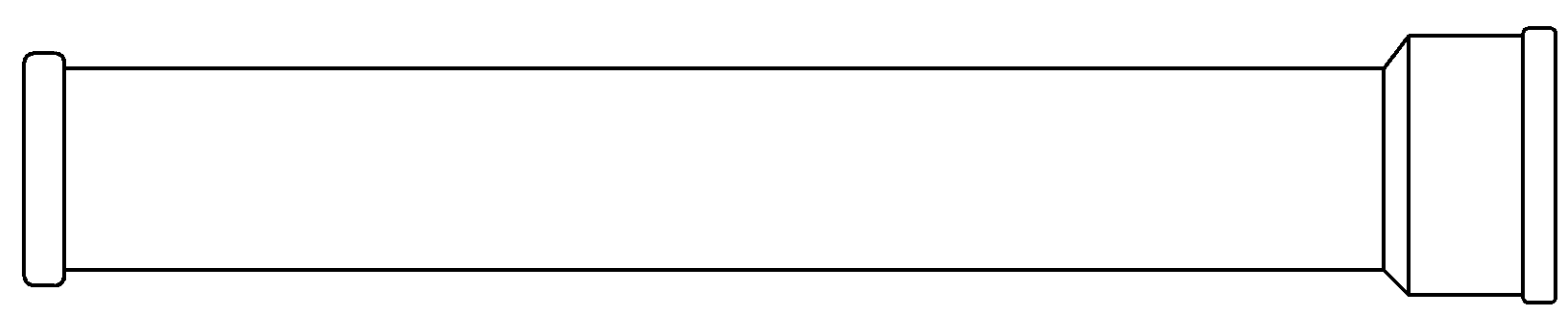
405



ALHAMBRA FOUNDRY CO. LTD.*
RECTANGULAR PIPE (A-470)



ALHAMBRA FOUNDRY CO. LTD.*
ADAPTOR (A-480)



ROUND PIPE	RECT. PIPE	LAYING LENGTH
4"	3" X 5"	1'0"
5"	3" X 9"	1'0"
6"	3" X 12 1/2"	1'0"
8"	4" X 14"	1'0"

OUTSIDE PIPE	OUTSIDE HUBS	TRANSVERSE AREA - NET	LAYING LENGTH
3" X 5"	4 1/4" X 6 1/4"	11.25 SQ. IN.	5'0"
3" X 5"	4 1/4" X 6 1/4"	11.25 SQ. IN.	2'6"
3" X 9"	4 1/4" X 10 1/4"	21.20 SQ. IN.	5'0"
3" X 12 1/2"	4 1/4" X 14"	30.00 SQ. IN.	5'0"
3" X 12 1/2"	4 1/4" X 14"	30.00 SQ. IN.	2'6"
4" X 14"	5 1/4" X 15 1/4"	47.50 SQ. IN.	5'0"
4" X 14"	5 1/4" X 15 1/4"	47.50 SQ. IN.	2'6"

* ALTERNATIVE SYSTEMS MAY BE UTILIZED. USE OF ANY OTHER SYSTEM IS SUBJECT TO REVIEW AND APPROVAL BY THE CITY ENGINEER.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

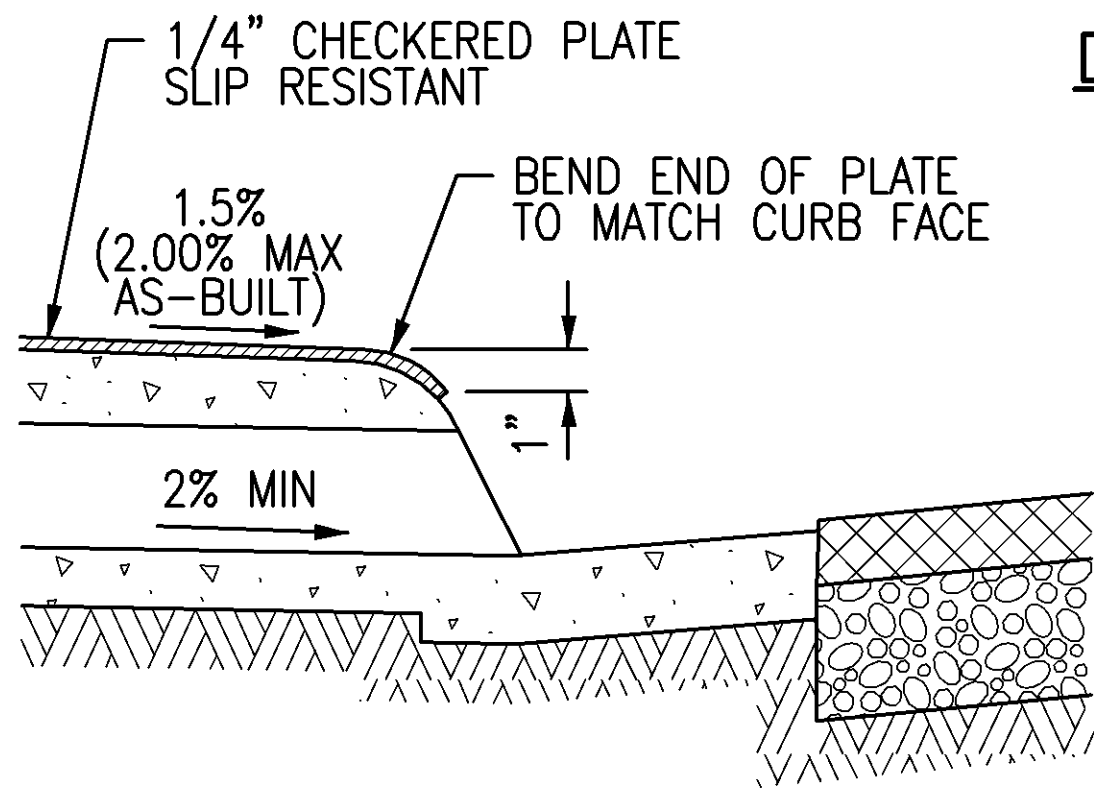
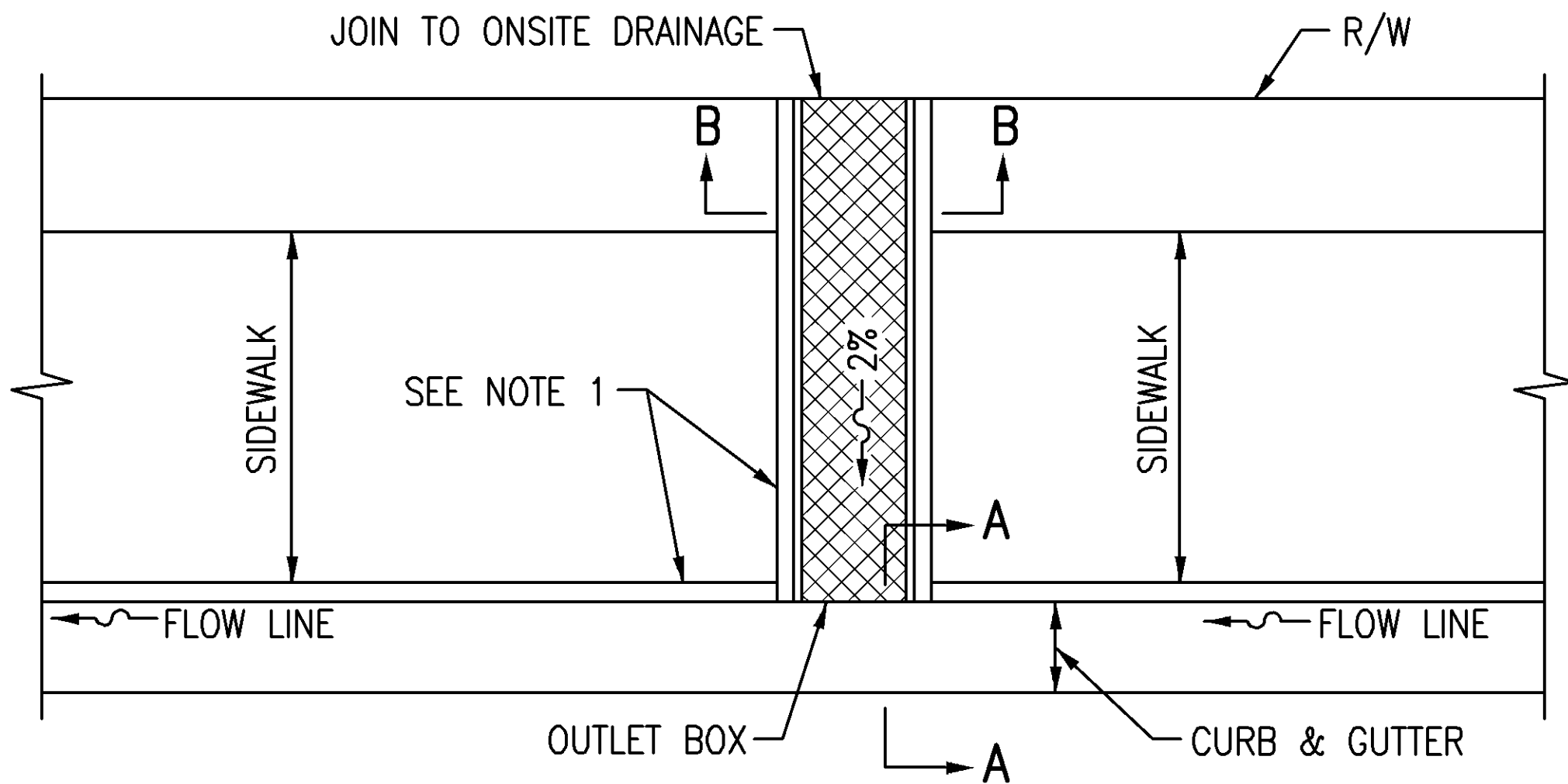
DATE

DEPARTMENT OF PUBLIC WORKS

UNDER SIDEWALK
DRAIN

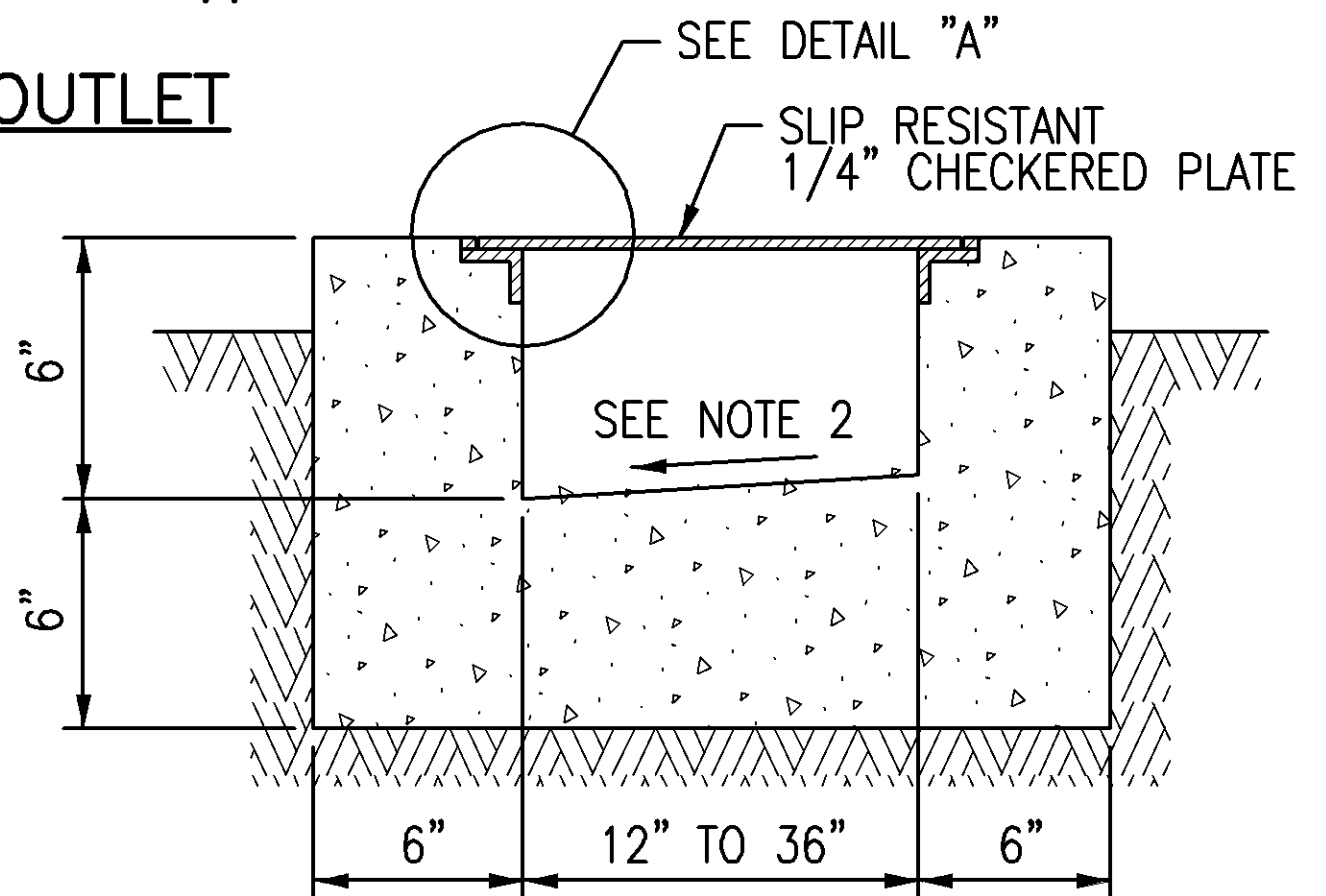
STD NO.

500



SECTION "A-A"

DRAIN OUTLET

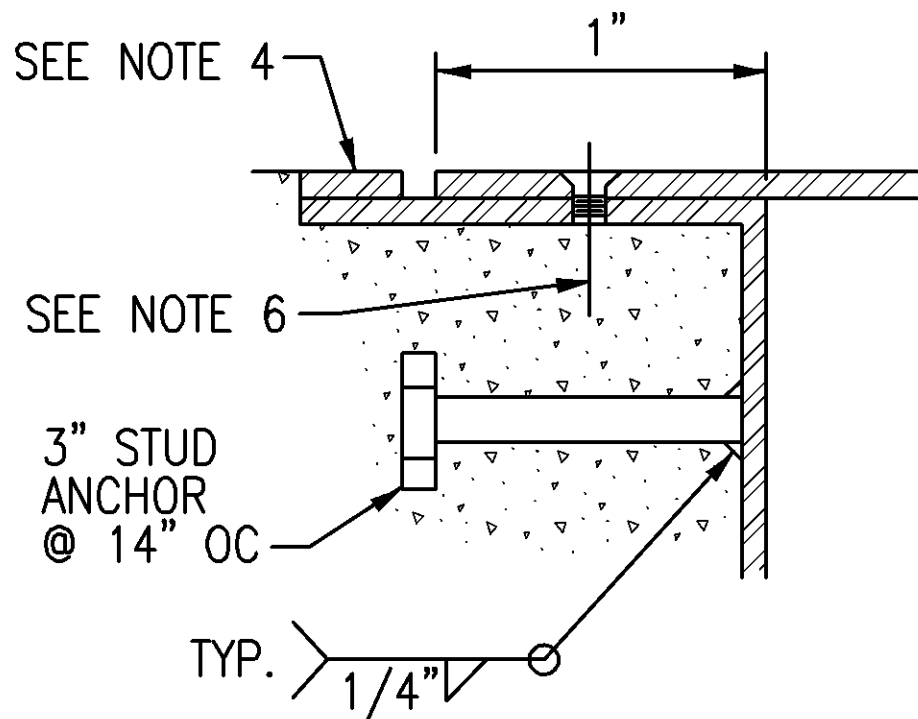


SECTION "B-B"

NOTES:

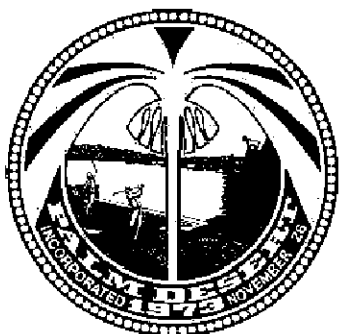
1. UNDER SIDEWALK DRAIN TO BE CONSTRUCTED PERPENDICULAR (90°) TO THE CURB ALIGNMENT. VARIATIONS FROM 90° REQUIRE THE APPROVAL OF THE CITY ENGINEER.
2. SLOPE TO DRAIN TO ONE SIDE.
3. ALL EXPOSED METAL PARTS TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
4. 1 1/2" X 1 1/2" X 1/4" "L" FRAME WITH 3/8" X 1/4" STEEL STRIP WELDED TO FRAME.
5. CHECKERED PLATE SHALL BE SLIP RESISTANT HOT-DIP GALVANIZED STEEL MAXIMUM WIDTH 36".
6. FASTEN WITH 1/4" COARSE-THREAD COUNTERSINK STAINLESS STEEL SCREWS AT 12" OC.
7. WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, USE A MODIFIED CONCRETE MIX AND PLACE 6" MIN CLASS 2 AGGREGATE BASE AND 6 MIL. PLASTIC SHEETING UNDER AND AROUND ALL SIDES OF CONCRETE IMPROVEMENTS. FOR EXPANSIVE SOIL, PLACE 6" MIN CLASS 2 AGGREGATE BASE UNDER CONCRETE IMPROVEMENTS AS DIRECTED BY THE ENGINEER.
8. CONCRETE MINIMUM CEMENTITIOUS MATERIAL CONTENT =505LB/CU YD.
9. NOT FOR USE IN PUBLIC RIGHT-OF-WAY.

N.T.S.



DETAIL "A"

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

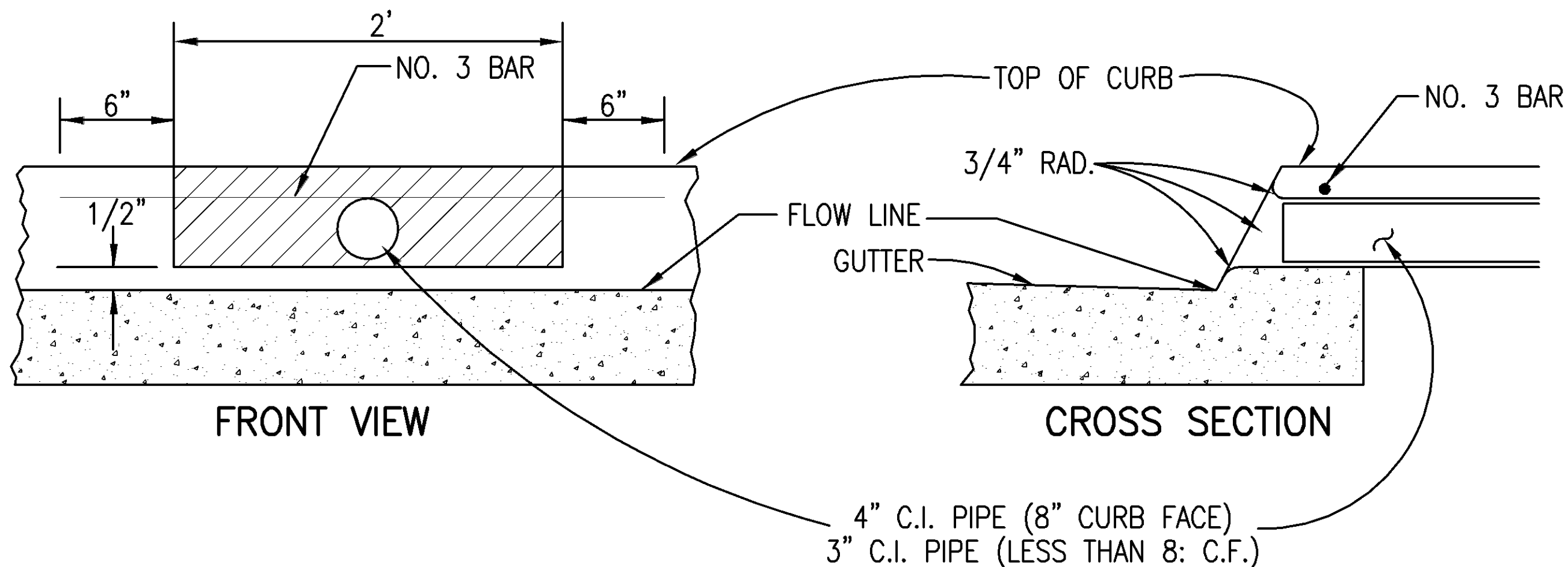
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

**UNDER SIDEWALK
DRAIN
CAST IN PLACE**

501



- NOTE 1: SAWCUT AND REMOVE CROSS HATCHED PORTION OF CURB SECTION.
- NOTE 2: CLASS 560-C-3250 CONCRETE SHALL BE USED TO RECONSTRUCT THE CURB SECTION.
- NOTE 3: WHEN CURB FACE ELEVATION IS LESS THAN 8" HIGH, THE FLOW LINE OF THE PIPE SHALL BE AT LEAST 1/2" ABOVE THE ELEVATION OF THE FLOW LINE OF THE GUTTER, AND THE PIPE SHOULD BE 3" IN DIAMETER.
- NOTE 4: A MINIMUM SEPARATION OF TEN FEET (10') IS REQUIRED BETWEEN ADJACENT DRAINS ON THE SAME PROPERTY.
- NOTE 5: WHEN GREATER CAPACITY IS REQUIRED, CITY OF PALM DESERT STANDARD 500 SHALL BE CONSTRUCTED.
- NOTE 6: DOWEL REBAR 6" INTO ADJACENT CONCRETE. REBAR SHALL OVERLAP 12", SIDE-BY-SIDE.
- NOTE 7: IF CURB DRAIN IS INSTALLED UNDER SIDEWALK, THE ENTIRE SIDEWALK PANEL MUST BE REMOVED AND REPLACED.

CASE A - SAW CUT OPTION

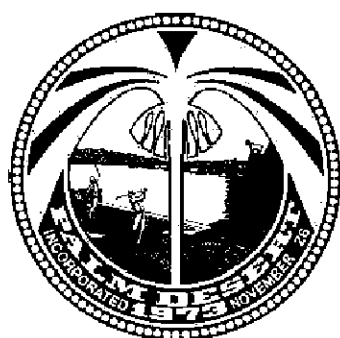
CORE DRILLING IN LIEU OF SAW CUT OPTION IS PERMITTED PROVIDED:

- (1) INVERT ELEVATION OF THE CORE SHALL BE AT LEAST 1/2" ABOVE THE FLOW LINE ELEVATION.
- (2) CORE DIAMETER SHALL NOT EXCEED 50% OF THE CURB FACE DIMENSION.
- (3) A MINIMUM SEPARATION OF TEN FEET (10') IS REQUIRED BETWEEN ADJACENT DRAINS ON THE SAME PROPERTY.
- (4) WHEN GREATER CAPACITY IS REQUIRED, CITY OF PALM DESERT STANDARD NUMBER 200 SHALL BE CONSTRUCTED.
- (5) THERE SHALL BE A MINIMUM OF 2" OF CONCRETE OVER THE TOP OF THE PIPE.

CASE B - CORE DRILL OPTION

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

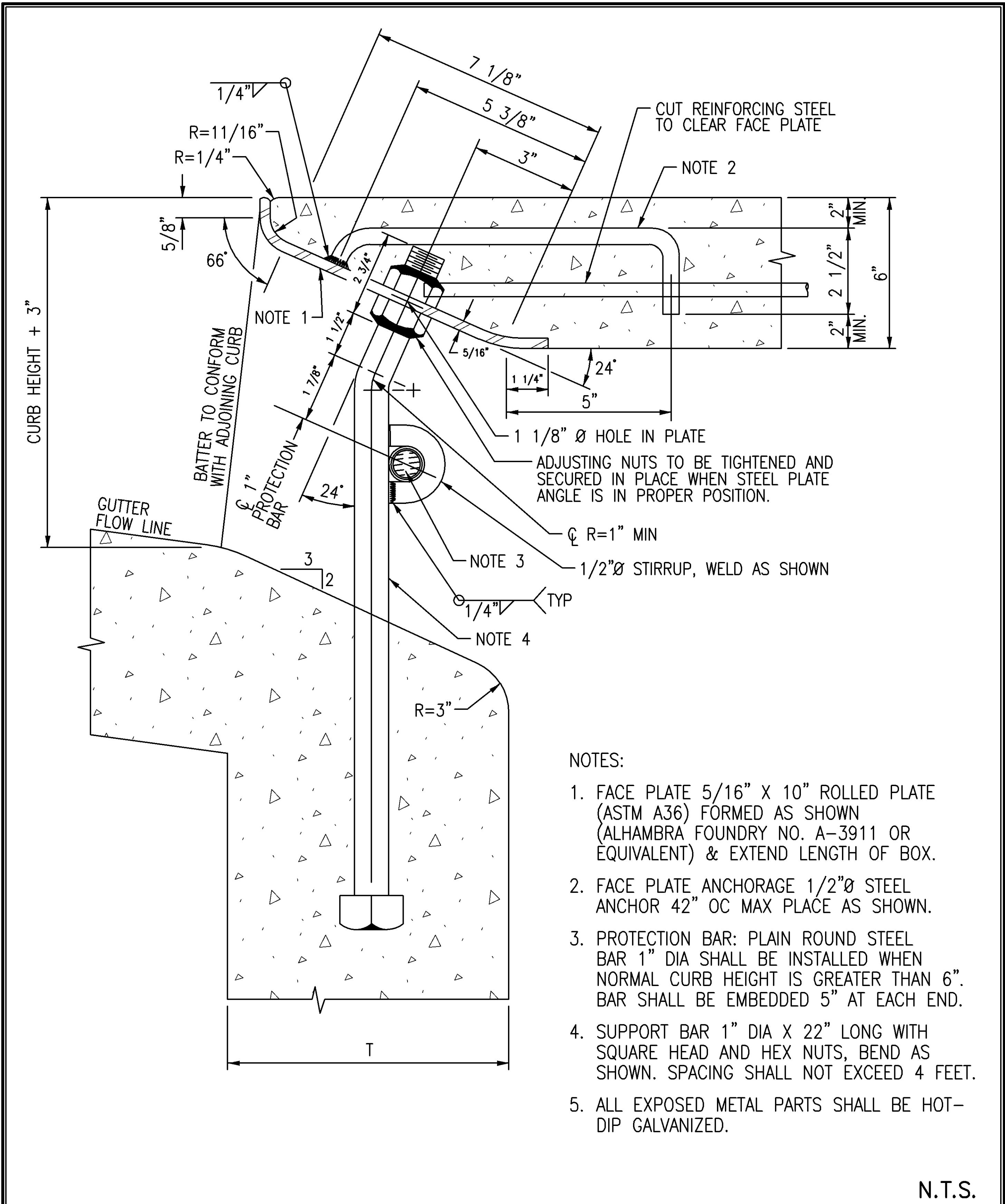
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.



CURB DRAIN
CASE A &
CASE B

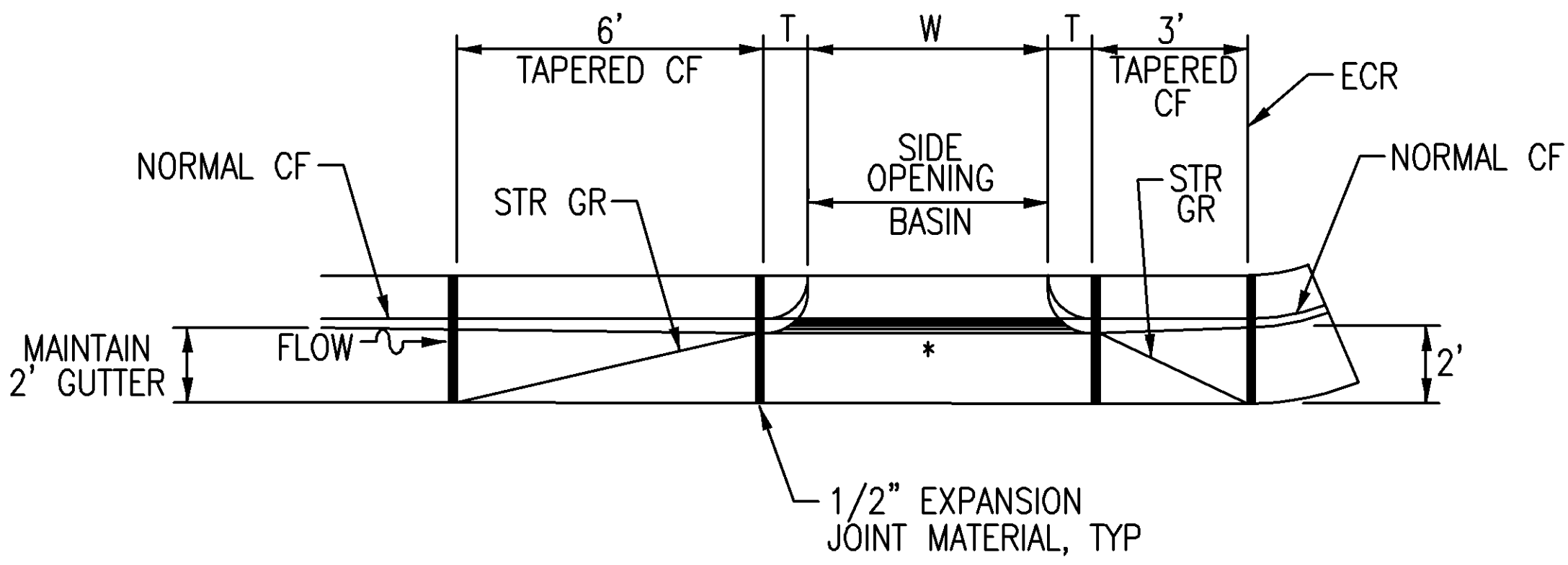
502



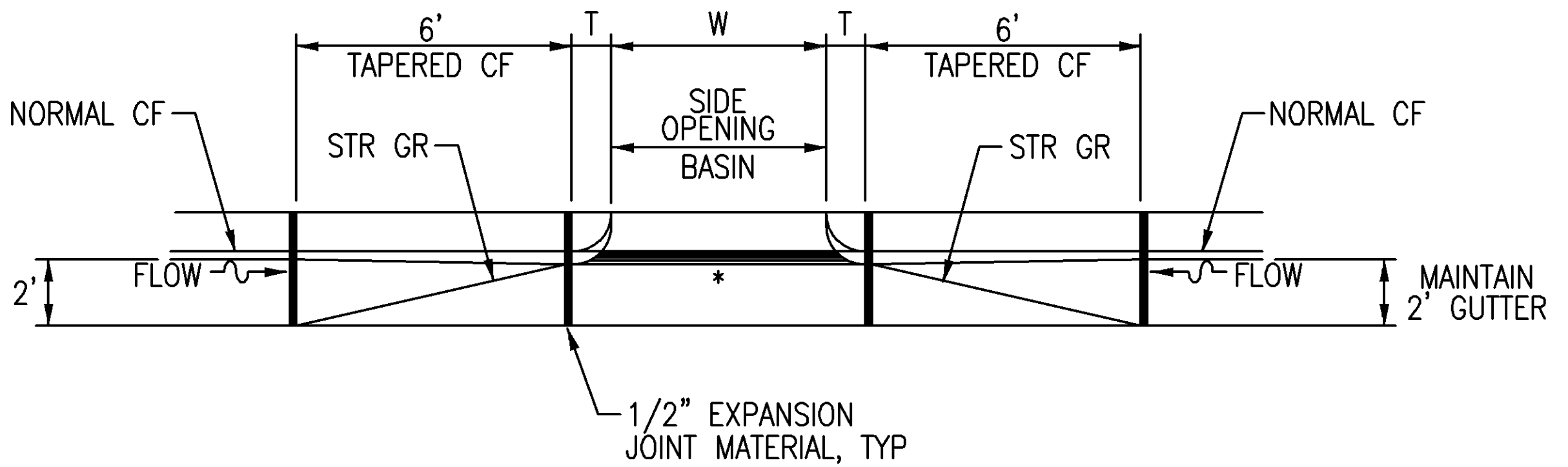
- NOTES:
1. FACE PLATE 5/16" X 10" ROLLED PLATE (ASTM A36) FORMED AS SHOWN (ALHAMBRA FOUNDRY NO. A-3911 OR EQUIVALENT) & EXTEND LENGTH OF BOX.
 2. FACE PLATE ANCHORAGE 1/2"Ø STEEL ANCHOR 42" OC MAX PLACE AS SHOWN.
 3. PROTECTION BAR: PLAIN ROUND STEEL BAR 1" DIA SHALL BE INSTALLED WHEN NORMAL CURB HEIGHT IS GREATER THAN 6". BAR SHALL BE EMBEDDED 5" AT EACH END.
 4. SUPPORT BAR 1" DIA X 22" LONG WITH SQUARE HEAD AND HEX NUTS, BEND AS SHOWN. SPACING SHALL NOT EXCEED 4 FEET.
 5. ALL EXPOSED METAL PARTS SHALL BE HOT-DIP GALVANIZED.

N.T.S.

	CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
		CITY ENGINEER	DATE	CURB SUPPORT DETAIL
			503	



CASE "A"
(FLOW BY)

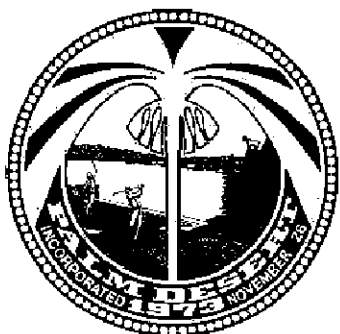


CASE "B"
(SUMP)

* CATCH BASIN OPENING = NORMAL CURB HEIGHT + 3 INCHES UNLESS OTHERWISE SPECIFIED.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

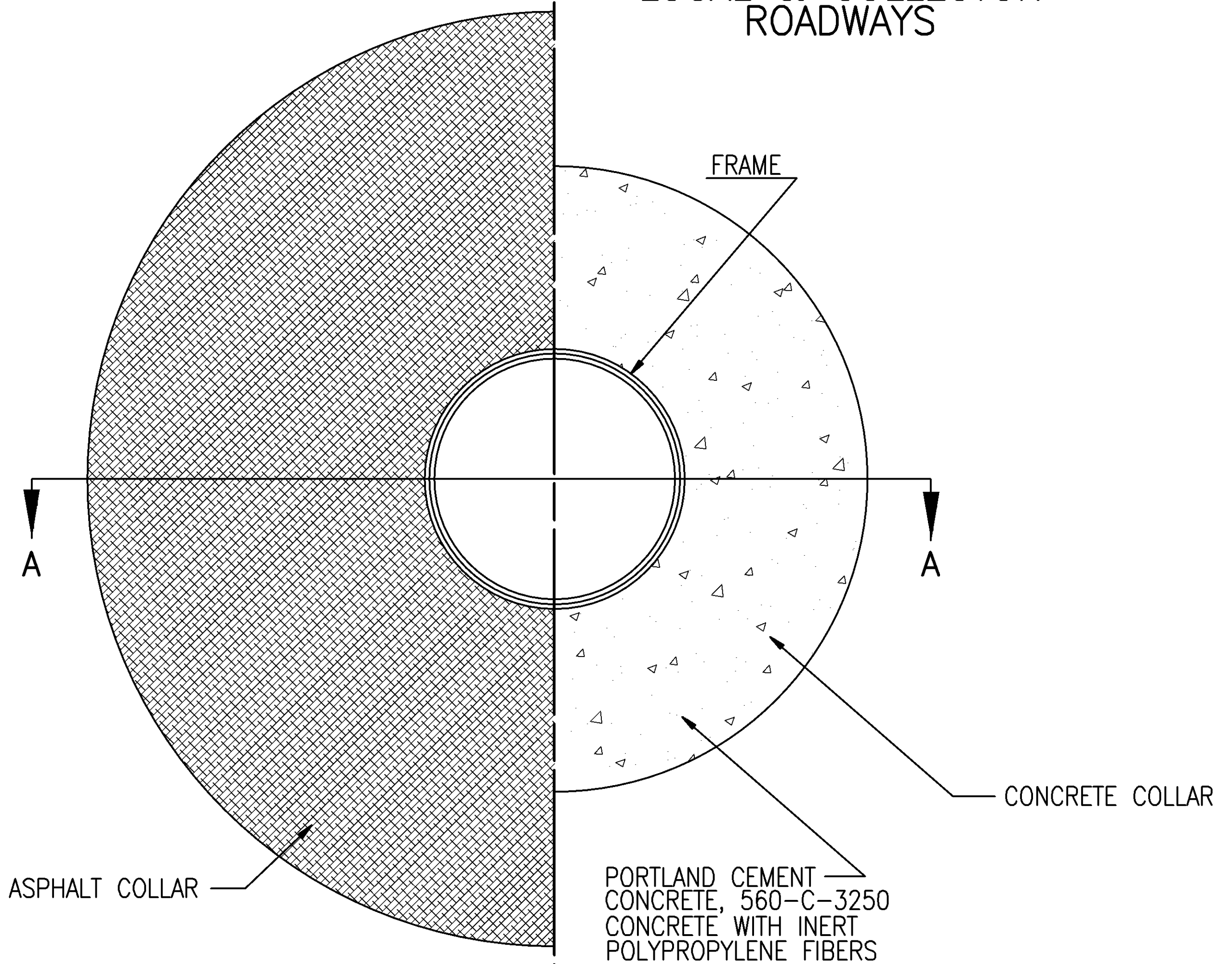
GUTTER DEPRESSION
FOR CURB OPENING
CATCH BASINS

STD NO.

504

OUT OF PAVEMENT

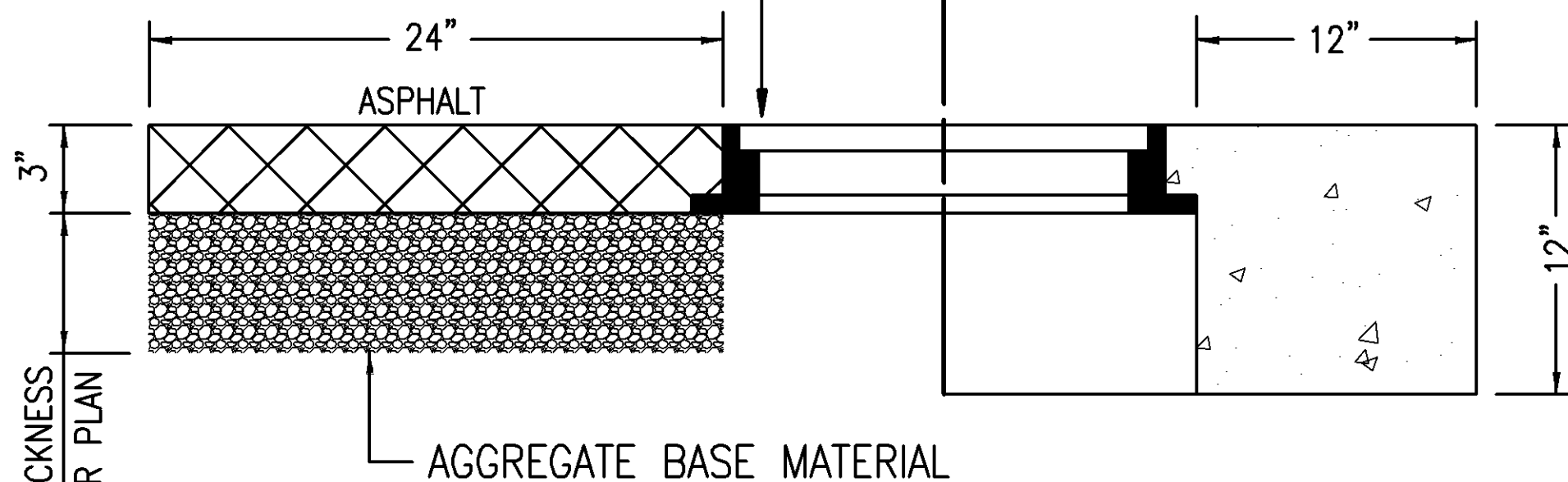
IN PAVEMENT
LOCAL & COLLECTOR
ROADWAYS



FRAME & COLLAR

FRAME AND COVER SHALL BE 1" ABOVE PREVAILING GRADE

FINISHED CONCRETE COLLAR TO BE 1/8" BELOW FINISHED PAVEMENT OR GRADE



SECTION A-A

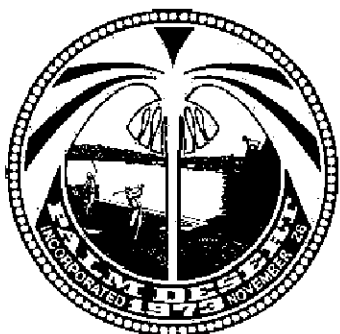
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



CITY ENGINEER

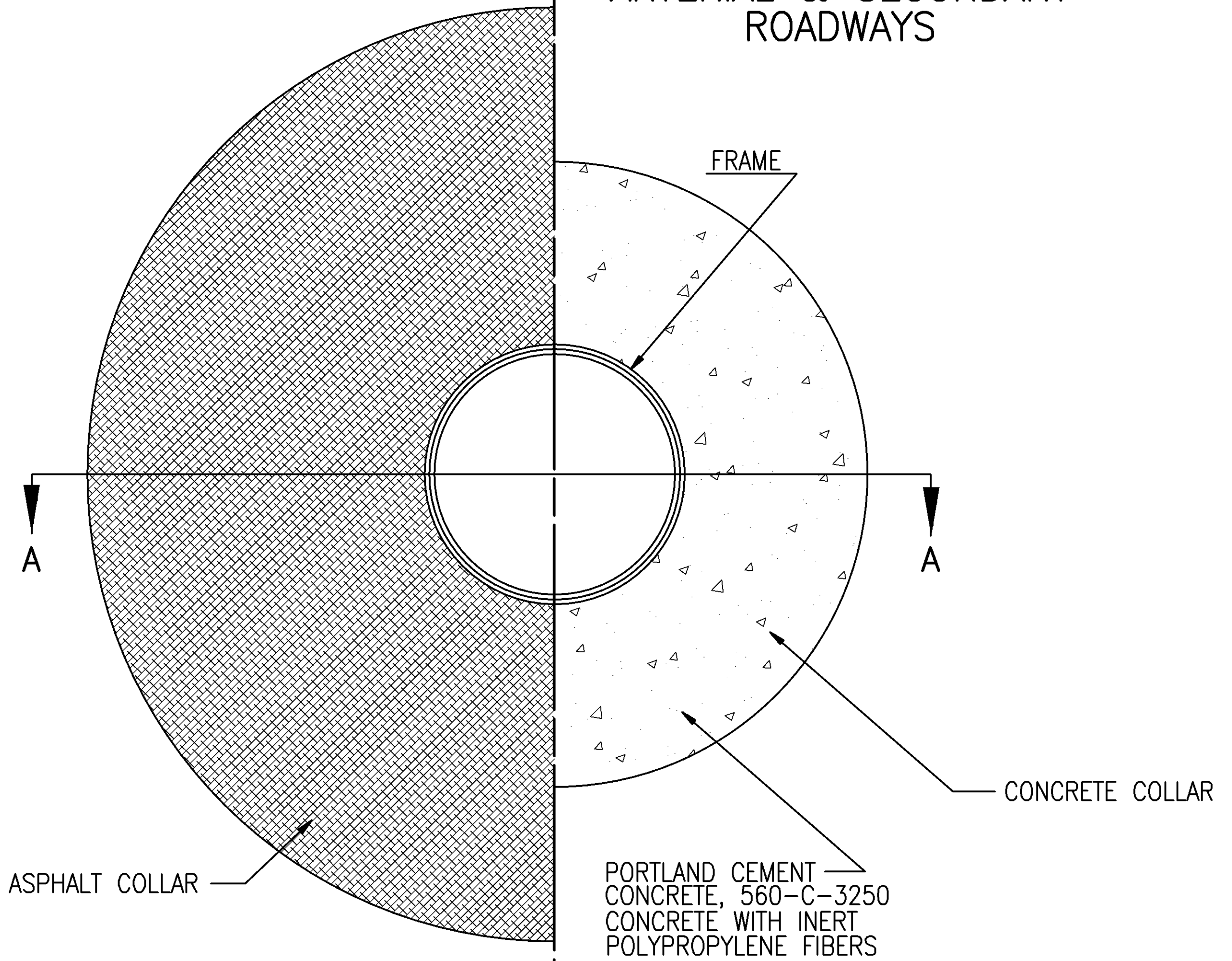
DATE

MANHOLE FRAME
AND COVER
(LOCAL & COLLECTOR
STREETS)

505

OUT OF PAVEMENT

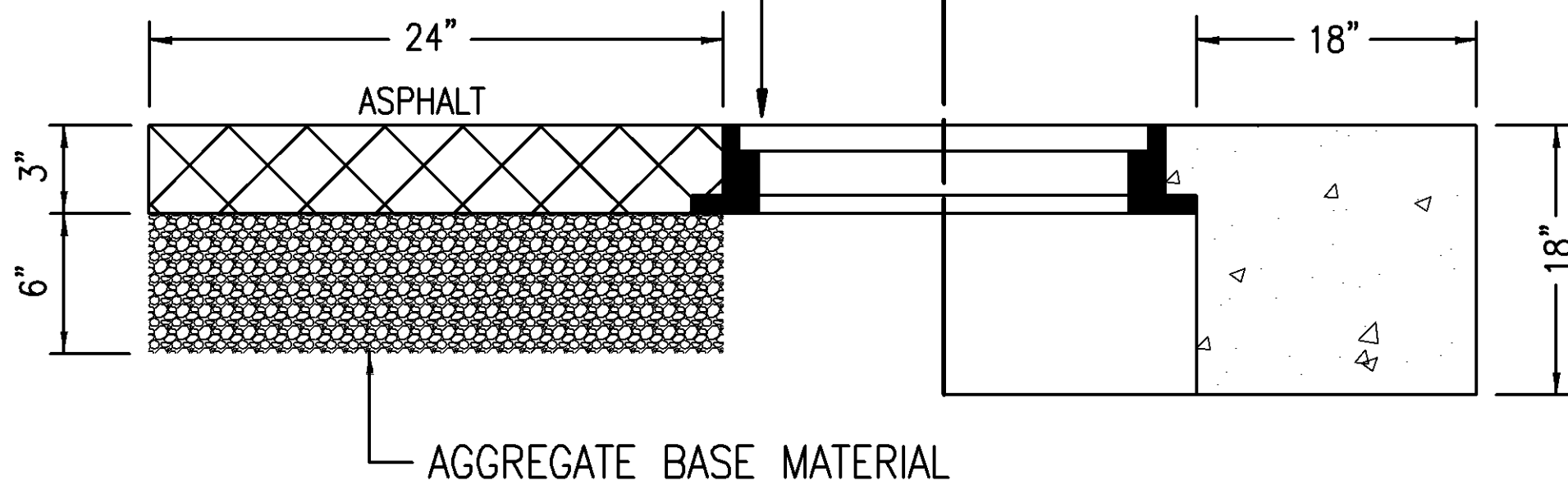
IN PAVEMENT
ARTERIAL & SECONDARY
ROADWAYS



FRAME & COLLAR

FRAME AND COVER SHALL BE 1" ABOVE PREVAILING GRADE

FINISHED CONCRETE COLLAR TO BE 1/8" BELOW FINISHED PAVEMENT OR GRADE



SECTION A-A

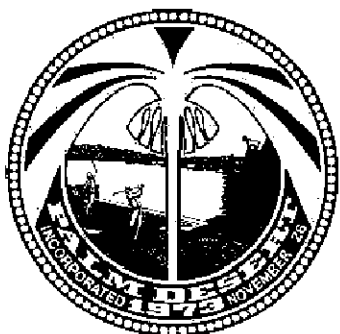
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



CITY ENGINEER

DATE

MANHOLE FRAME
AND COVER (ARTERIAL
& SECONDARY
STREETS)

506

E.O.R. SHALL SPECIFY SOLID OR GRATED LID.

NOTE:

ALL JOINTS ABOVE THE LEACHING AREA SHALL BE MORTAR SEALED INSIDE AND OUT.

24" ϕ C.I. GRATE & FRAME
ALHAMBRA FOUNDRY A-1200 OR
APPROVED EQUAL. ADAPT AS
REQUIRED FOR V-GUTTER &
CURB AND GUTTER INSTALLATION.
SET RIM TO GRADE WITH
PRECAST RISERS.

INVERT OF INLET PIPE SHALL
BE MIN. 6" HIGHER THAN
TOP OF DOWN DRAIN.

COMPACT BACKFILL TO 90% MIN.
WITH TOP 12" COMPACTED TO 95%.
FLOODING & JETTING WILL NOT
BE ALLOWED.

48" ϕ MIN. PRECAST
MANHOLE CONE

6" P.V.C. OR A.B.S.
DOWN DRAIN.

INSTALL ATRIUM GRATE

4" CONCRETE SLAB (POURED
IN PLACE) SHALL EXTEND
6" INTO UNDISTURBED SOIL

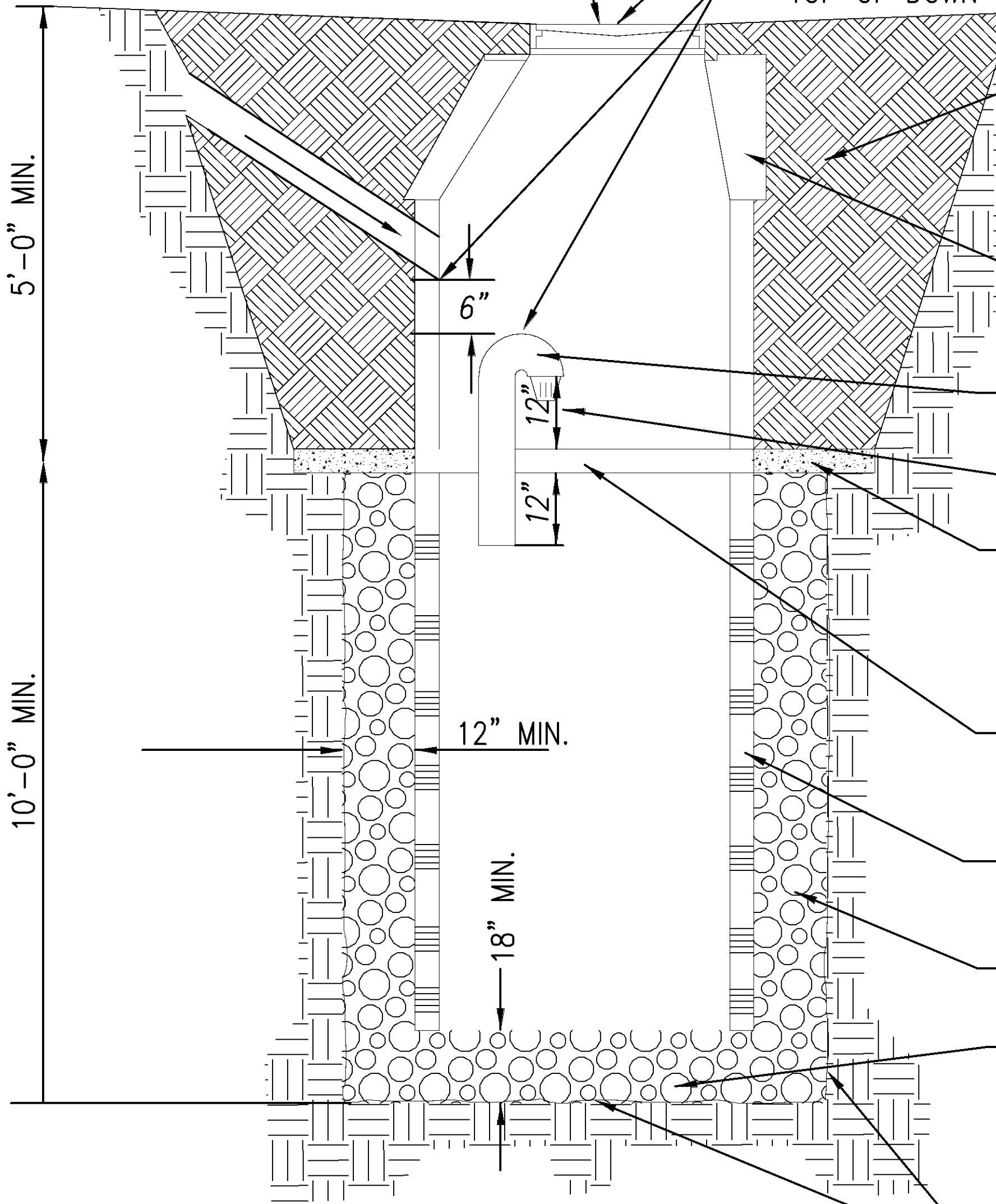
PRE-CAST CONCRETE SLAB.

48" ϕ MIN. PRE-CAST PERFORATED
CONCRETE RING.

3/8" TO 3/4" ϕ WASHED ROCK.

3/8" TO 3/4" ϕ WASHED
ROCK ON UNDISTURBED SOIL.

NON-WOVEN FILTER FABRIC PER
CALTRANS STD. SPEC. 88-1.03
BETWEEN THE WASHED ROCK
AND UNDISTURBED SOIL



5'-0" MIN.

10'-0" MIN.



N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



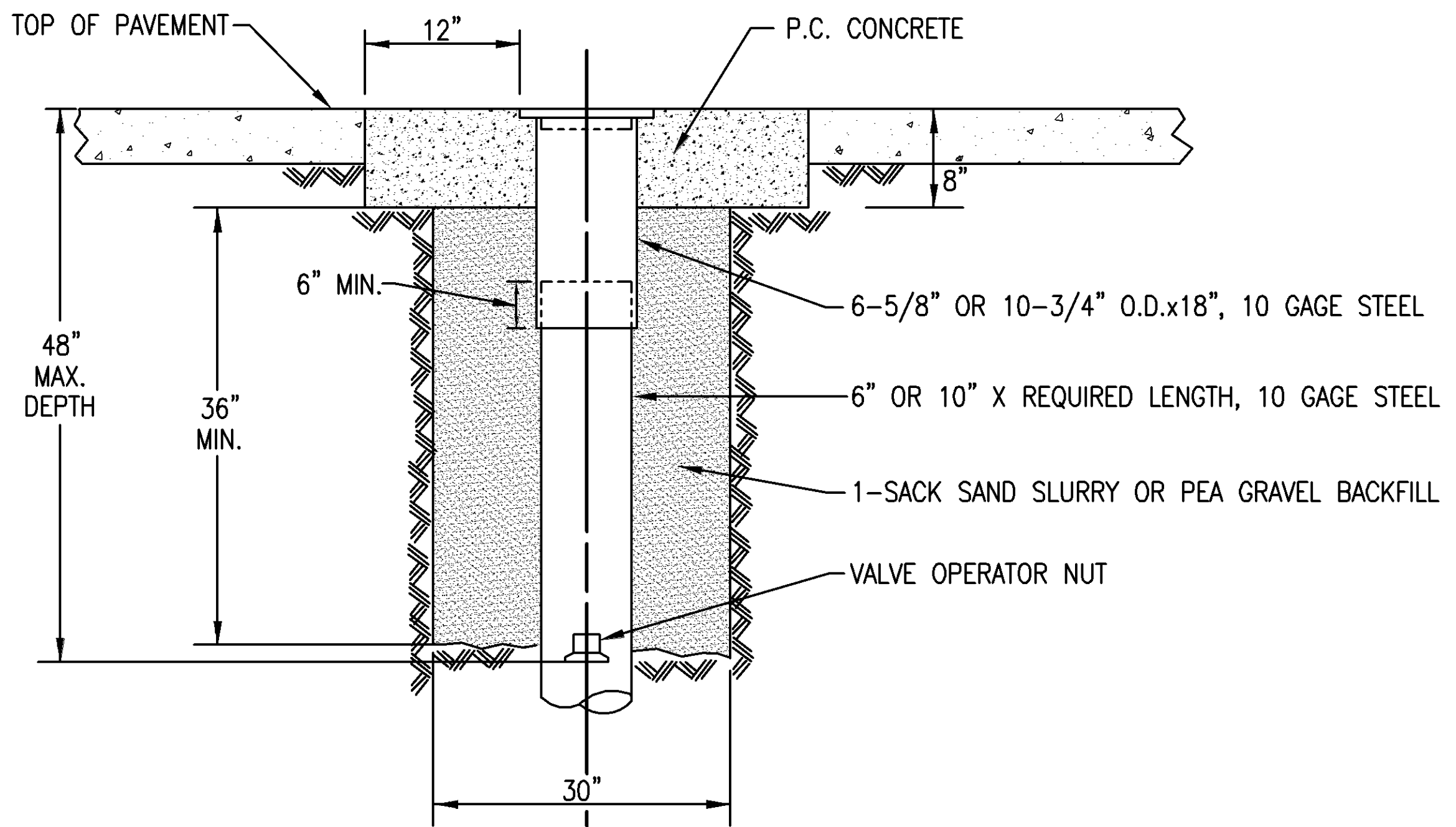
CITY ENGINEER

DATE

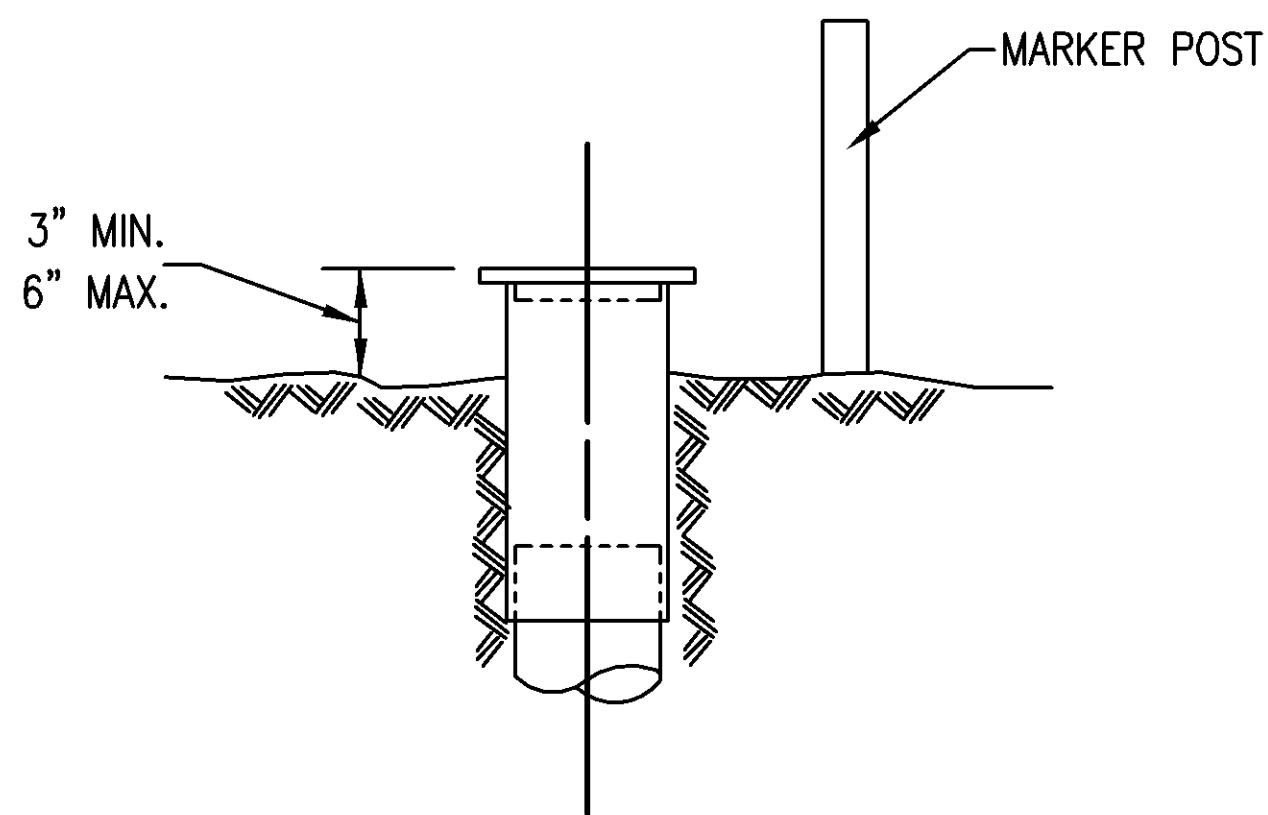
STANDARD DRYWELL
DETAIL

507

TYPICAL INSTALLATION
(STREET OR ALLEY)



TYPICAL INSTALLATION
(UNTRAVELED AREAS)

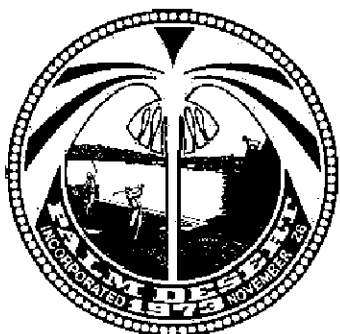


NOTES:

1. ALL CONCRETE SHALL BE 560-C-3250
2. CONCRETE SURFACE SHALL RECEIVE HEAVY BROOM FINISH.

N.T.S.

CITY OF PALM DESERT



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CITY ENGINEER

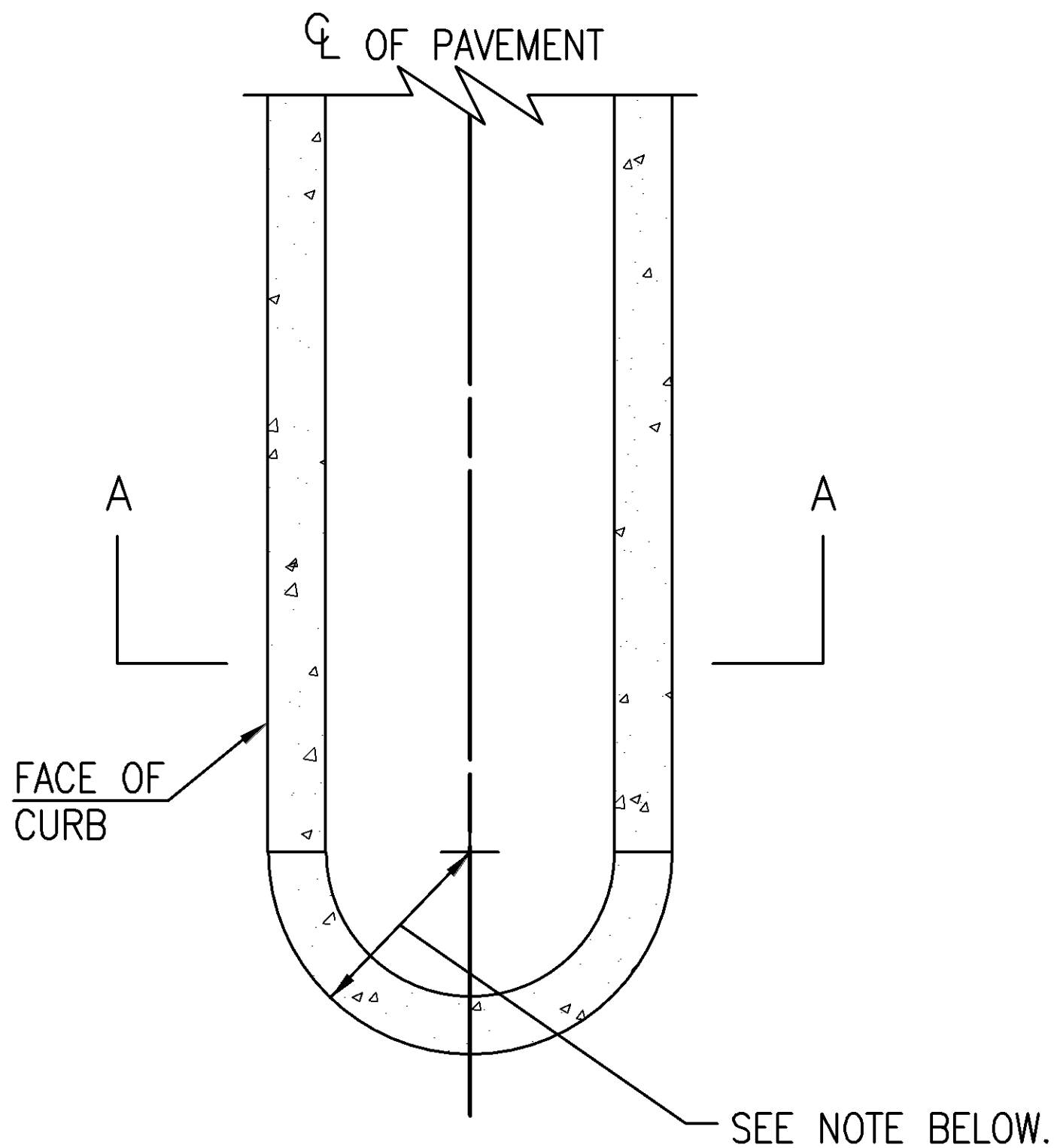
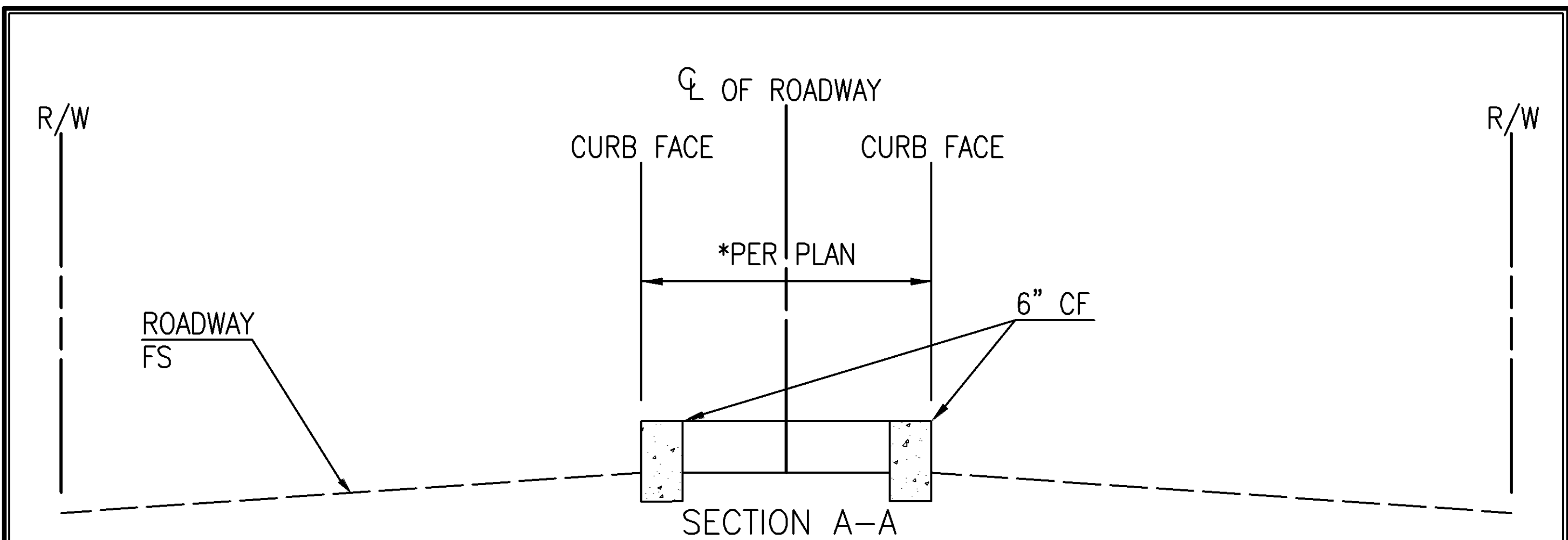
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

VALVE OPERATOR
WELL
INSTALLATION

508



NOTES:

1. MEDIAN DESIGN SHALL FOLLOW CALIFORNIA HIGHWAY DESIGN MANUAL.
SEE CITY OF PALM DESERT STANDARD 910 AND 911 FOR SIGNAGE PLACEMENT GUIDANCE.
 2. RADIUS AT MEDIAN BREAKS SHALL BE MINIMUM OF 10' WHEN MEDIAN TAPERING IS NOT REQUIRED.
 3. FOR MEDIAN TAPER (BAY TAPER) REFER TO CALIFORNIA HIGHWAY DESIGN MANUAL FOR DESIGN GUIDANCE, SUBJECT TO THE CITY ENGINEER APPROVAL.
 4. CURB SHALL BE CONSTRUCTED PER CITY OF PALM DESERT STD 400 OR 404, SUBJECT TO APPROVAL BY THE CITY ENGINEER.
- * FOR EL PASEO, 14 FT MEDIAN.

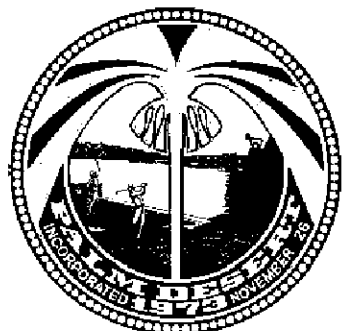
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CITY OF PALM DESERT

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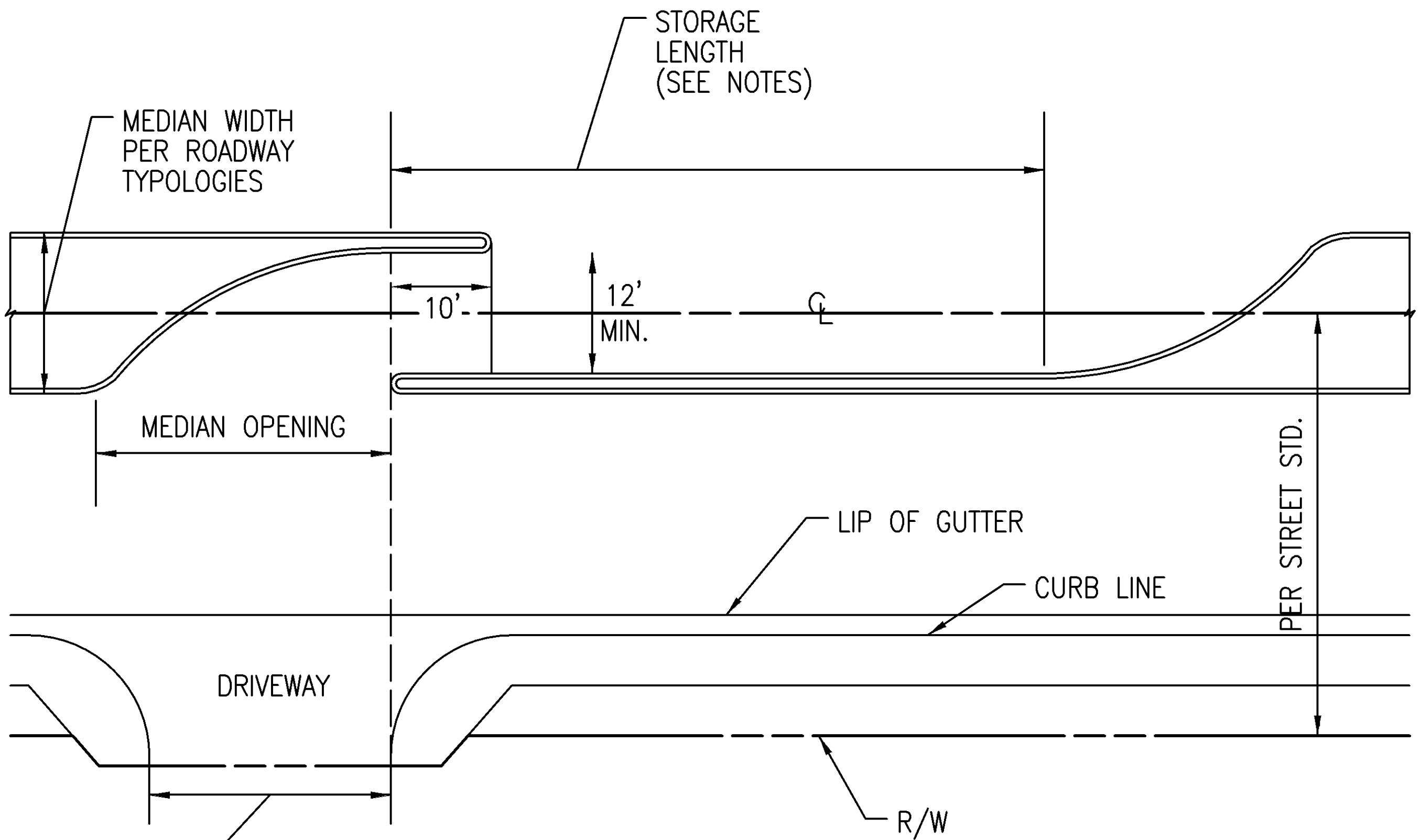


CITY ENGINEER

DATE

TYPICAL MEDIAN
CONSTRUCTION

600



PER CITY OF PALM DESERT
STANDARD 305 OR AS APPROVED
MODIFIED DESIGN.

TYPICAL CURB MEDIAN WIDTH PER ROADWAY TYPOLOGY
 ENHANCED ARTERIAL, 18-FT
 VEHICULAR ORIENTED ARTERIAL, 18 OR 20-FT
 BALANCED ARTERIAL, 18-FT
 ENHANCED SECONDARY ROADWAY, 18-FT
 SECONDARY STREET, 14-FT
 EL PASEO, 16-FT

NOTES:

1. DIRECTIONAL LEFT TURN MEDIAN BAY SHALL BE DESIGNED PER AASHTO STANDARDS AND IS SUBJECT TO APPROVAL BY THE CITY ENGINEER.
2. THE LENGTH OF BAY TAPER SHOULD BE SHORT TO CLEARLY DELINEATE THE LEFT TURN AND TO DISCOURAGE THROUGH TRAFFIC FROM DRIFTING TO THE LEFT TURN LANE. FOR URBAN AREAS, CONSIDER LENGTH OF 60 FEET AND 90 FEET PER CALIFORNIA HIGHWAY DESIGN MANUAL GUIDELINES. FINAL DESIGN IS SUBJECT TO THE CITY ENGINEER APPROVAL.
3. STORAGE LENGTH SHALL BE PER THE RECOMMENDATIONS OF A TRAFFIC ENGINEER AND SUBJECT TO THE CITY ENGINEER APPROVAL.
4. LENGTH OF MEDIAN OPENING SHALL BE MINIMIZED TO DISCOURAGE VEHICLES TO ENTER FROM OPPOSITE TRAFFIC DIRECTION, BUT AT LEAST THE SAME WIDTH AS THE CORRESPONDING DRIVE/OPENING. TRAFFIC DIRECTION.
5. TRUCK TURNING TEMPLATES SHALL BE SUBMITTED TO SHOW NO CONFLICT WITH DRIVEWAY OR MEDIAN STRUCTURES.
6. TURNING LANE WIDTH REDUCTION TO A MINIMUM OF 10 FEET WILL BE CONSIDERED FOR PROJECTS WHERE A 12-FOOT DESIGN IS NOT FEASIBLE, SUBJECT TO APPROVAL OF THE CITY ENGINEER.

N.T.S.

CITY OF PALM DESERT

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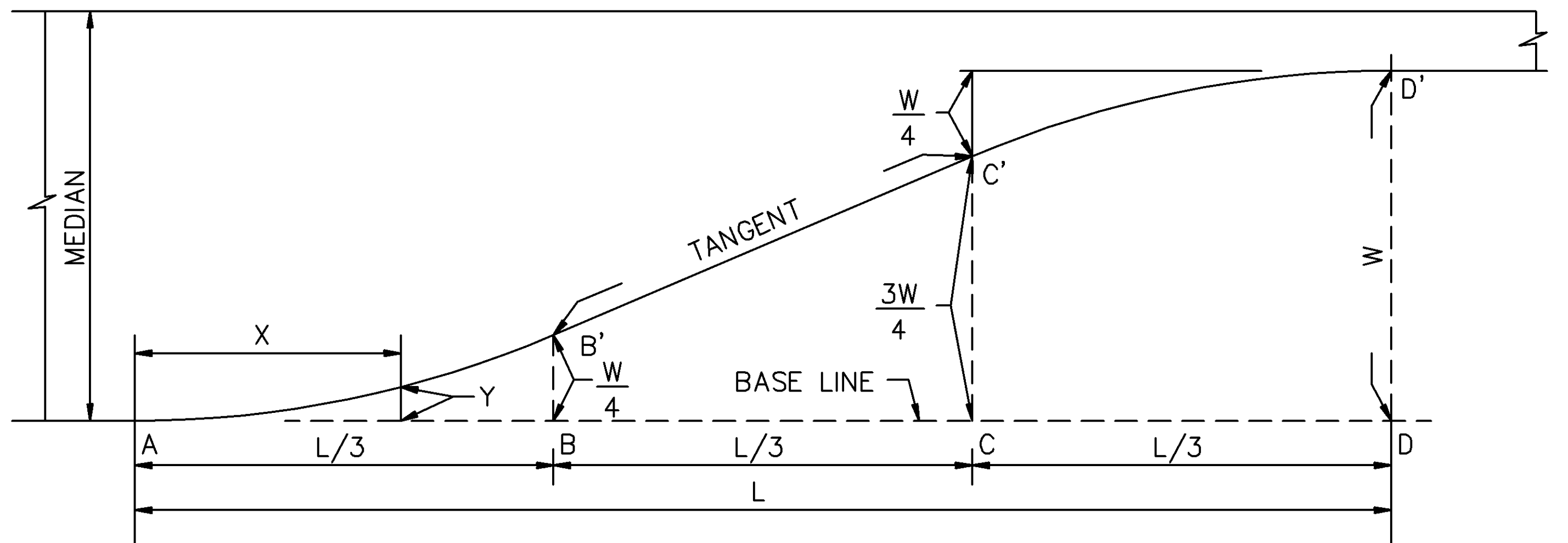


CITY ENGINEER

DATE

**RESTRICTED
LEFT TURN MEDIAN
OPENING**

601



$$Y = 2.25W \left(\frac{X}{L} \right)^2$$

L=LENGTH OF TAPER
W=MAXIMUM OFFSET DISTANCE
X=DISTANCE ALONG BASE LINE
Y=OFFSET FROM BASE LINE

L, ft	DISTANCE X, L/12 INCREMENTS, ft											
60'	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'
72'	6'	12'	18'	24'	30'	36'	42'	48'	54'	60'	66'	72'
90'	7.5'	15'	22.5'	30'	37.5'	45'	52.5'	60'	67.5'	75'	82.5'	90'
120'	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'
150'	12.5'	25'	37.5'	50'	62.5'	75'	87.5'	100'	112.5'	125'	137.5'	150'
W, ft	OFFSET Y, ft											
10'	0.16'	0.62'	1.41'	2.50'	3.75'	5.00'	6.25'	7.50'	8.59'	9.38'	9.84'	10.00'
11'	0.17'	0.69'	1.55'	2.75'	4.13'	5.50'	6.88'	8.25'	9.45'	10.31'	10.83'	11.00'
12'	0.19'	0.75'	1.69'	3.00'	4.50'	6.00'	7.50'	9.00'	10.31'	11.25'	11.81'	12.00'
19'	0.30'	1.19'	2.67'	4.75'	7.13'	9.50'	11.88'	14.25'	16.33'	17.81'	18.70'	19.00'
20'	0.31'	1.25'	2.81'	5.00'	7.50'	10.00'	12.50'	15.00'	17.19'	18.75'	19.69'	20.00'
21'	0.33'	1.31'	2.95'	5.25'	7.88'	10.50'	13.13'	15.75'	18.05'	19.69'	20.67'	21.00'
22'	0.34'	1.38'	3.09'	5.50'	8.25'	11.00'	13.75'	16.50'	18.91'	20.62'	21.66'	22.00'

NOTE:

TO DETERMINE OFFSET DISTANCE FOR ANY LENGTH OF TAPER USE THE FORMULA $Y = 2.25W \left(\frac{X}{L} \right)^2$ FOR THE PORTIONS A-B' AND C-D' WHICH ARE PARABOLIC CURVES. THE PORTION B'C' IS A TANGENT. WHEN THE BASE LINE IS CURVED, THE OFFSETS ARE APPLIED TO THE CURVED BASE LINE, AND B'C' IS NO LONGER A TANGENT.

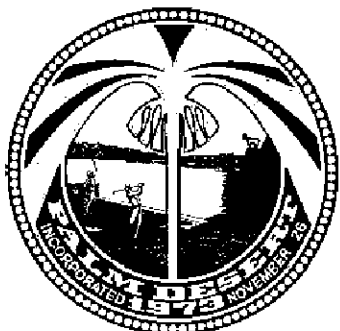
N.T.S.

CITY OF PALM DESERT

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STD NO.

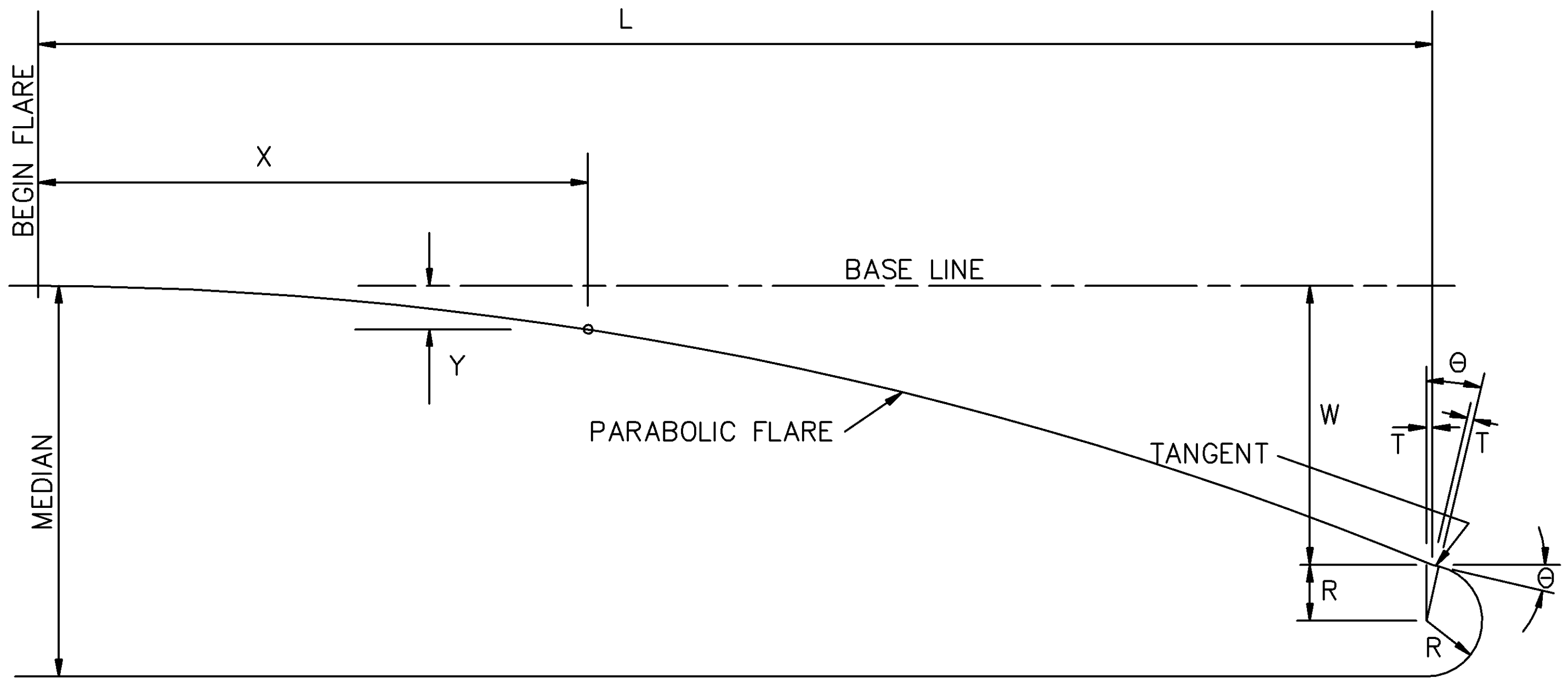


CITY ENGINEER

DATE

MEDIAN TAPER

602



L=LENGTH OF TAPER
 W=MAXIMUM OFFSET DISTANCE
 X=DISTANCE ALONG BASE LINE
 Y=OFFSET FROM BASE LINE
 T=TANGENT LENGTH
 R=RADIUS OF NOSE
 Θ=MAXIMUM FLARE DEFLECTION ANGLE

$$Y = W\left(\frac{X}{L}\right)^2$$

$$\tan \theta = \frac{2W}{L}$$

$$T = R \tan \frac{\theta}{2}$$

IF STATION OF RADIUS POINT IS NOT GIVEN ON PLAN, TANGENT DISTANCE T MAY BE IGNORED

OFFSET Y, ft

L, ft	W, ft	X, ft														
		10'	15'	20'	25'	30'	40'	45'	50'	60'	70'	75'	80'	90'	100'	
W/L = 1:5																
25'	5'	0.80'	1.80'	3.20'	5.00'											
50'	10'	0.40'	0.90'	1.60'	2.50'	3.60'	6.40'	8.10'	10.00'							
W/L = 1:10																
50'	5'	0.20'	0.45'	0.80'	1.25'	1.80'	3.20'	4.05'	5.00'							
100'	10'	0.10'	0.23'	0.40'	0.63'	0.90'	1.60'	2.03'	2.50'	3.60'	4.90'	5.63'	6.40'	8.10'	10.00'	
W/L = 1:15																
45'	3'	0.15'	0.33'	0.59'	0.93'	1.33'	2.37'	3.00'								
75'	5'	0.09'	0.20'	0.36'	0.56'	0.80'	1.42'	1.80'	2.22'	3.20'	4.36'	5.00'				
90'	6'	0.07'	0.17'	0.30'	0.46'	0.67'	1.19'	1.50'	1.85'	2.67'	3.63'	4.17'	4.74'	6.00'		

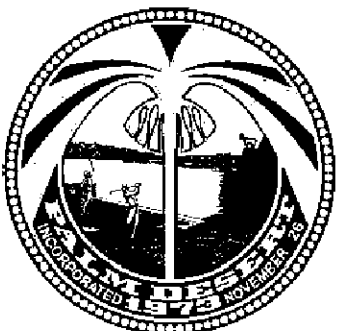
N.T.S.

CITY OF PALM DESERT

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DEPARTMENT OF PUBLIC WORKS

STD NO.

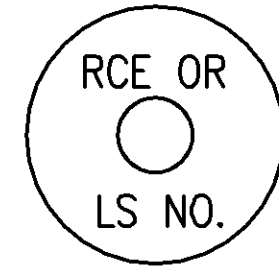
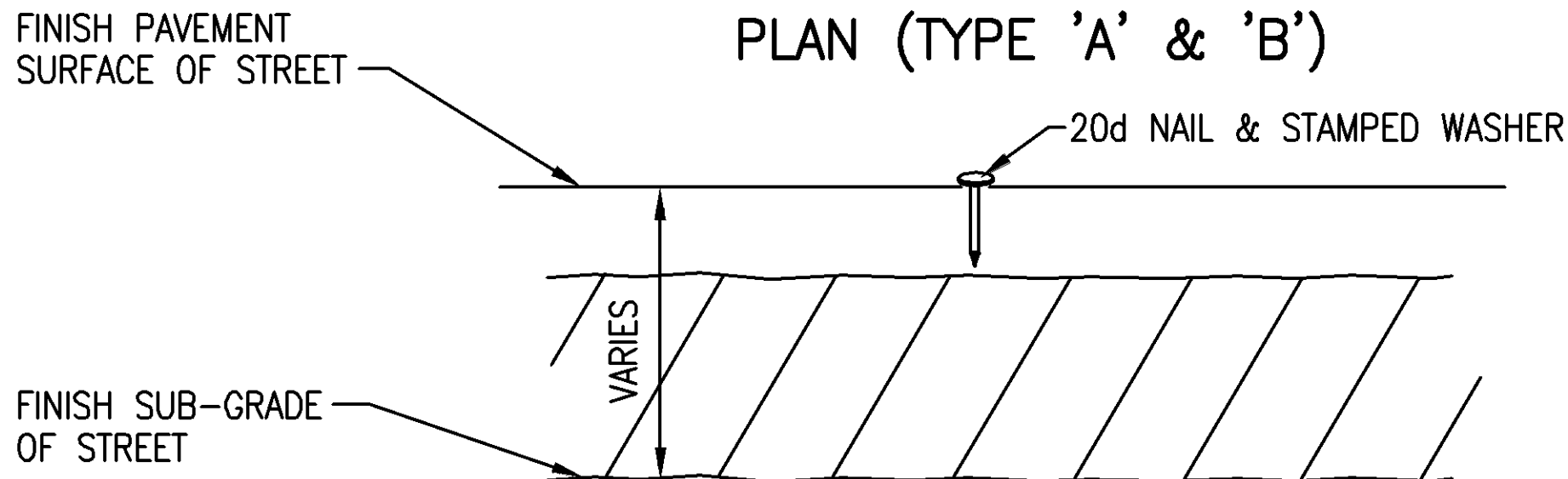
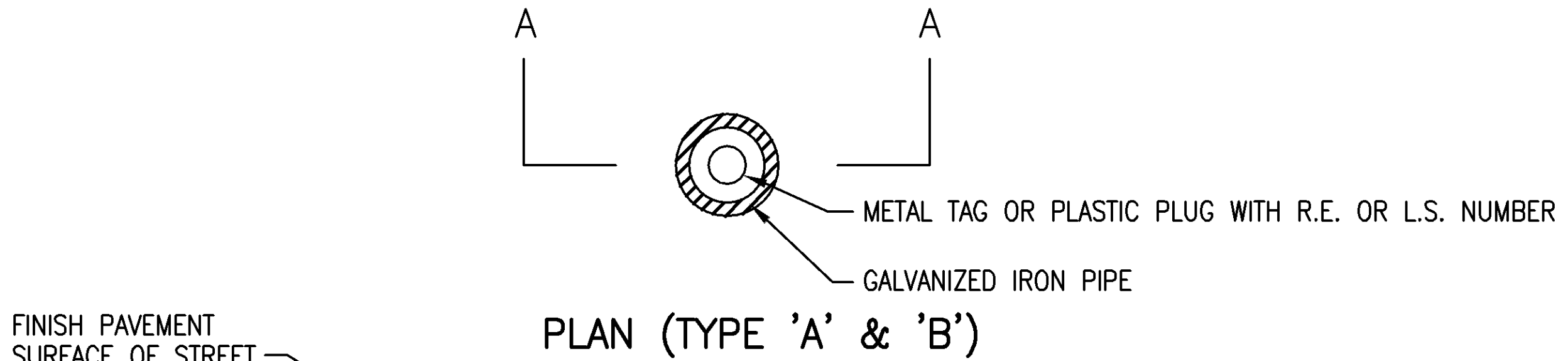


CITY ENGINEER

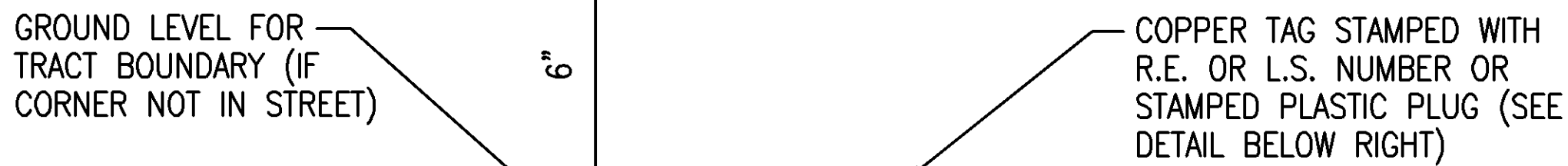
DATE

MEDIAN FLARE

603



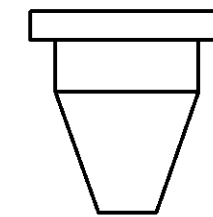
NAIL & COPPER TAG FIXED IN CONCRETE SURFACE
PLAN (TYPE 'C')



24" X 2" MIN. I.D. GALVANIZED IRON PIPE (SUBDIVISION BOUNDARY MONUMENT TYPE 'A')

* FOR SECTION AND QUARTER SECTION CORNERS THAT FALL IN ROADWAY SEE STD. DWG. NO. 300B

24" X 3/4" MIN. I.D. GALVANIZED IRON PIPE (LOT & PARCEL CORNER MONUMENT TYPE 'B')



SECTION (TYPE 'B' ALTERNATIVE)
PLASTIC PLUG

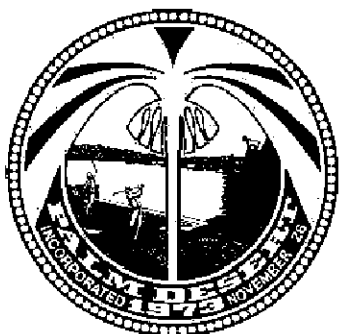
SECTION A-A

NOTES:

1. SUBDIVISION BOUNDARY MONUMENT TYPE 'A' TO BE SET 6" BELOW FINISH SUB-GRADE IN ROADWAY OR FLUSH AT TRACT BOUNDARY CORNERS.
2. ALL LOT AND PARCEL CORNERS SHALL USE TYPE 'B' MONUMENTS SET AT PROPER GRADE WITH A COPPER DISC OR PLASTIC PLUG BEARING THE REGISTERED CIVIL ENGINEER OR LAND SURVEYOR NUMBER.
3. TYPE 'C' MONUMENT TO CONSIST OF LEAD PLUG OR STEEL PIN WITH COPPER IDENTIFICATION DISC SET IN CONCRETE CURB OR WALL. (SEE DETAIL ABOVE RIGHT.)

N.T.S.

CITY OF PALM DESERT



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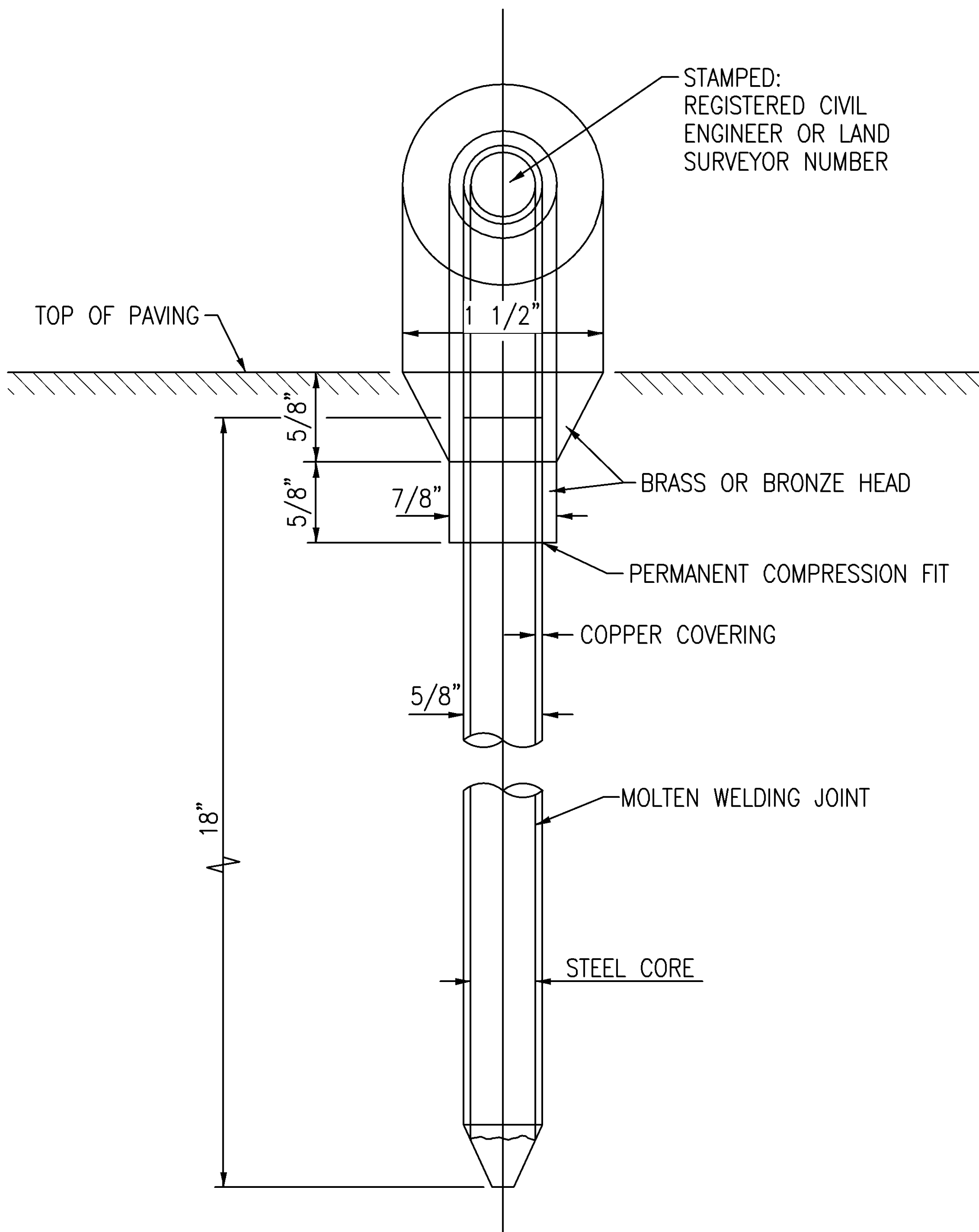
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

TYPE A, B, & C
MONUMENTS

700



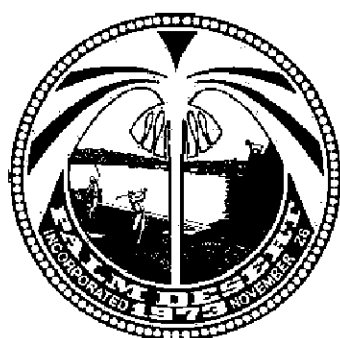
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

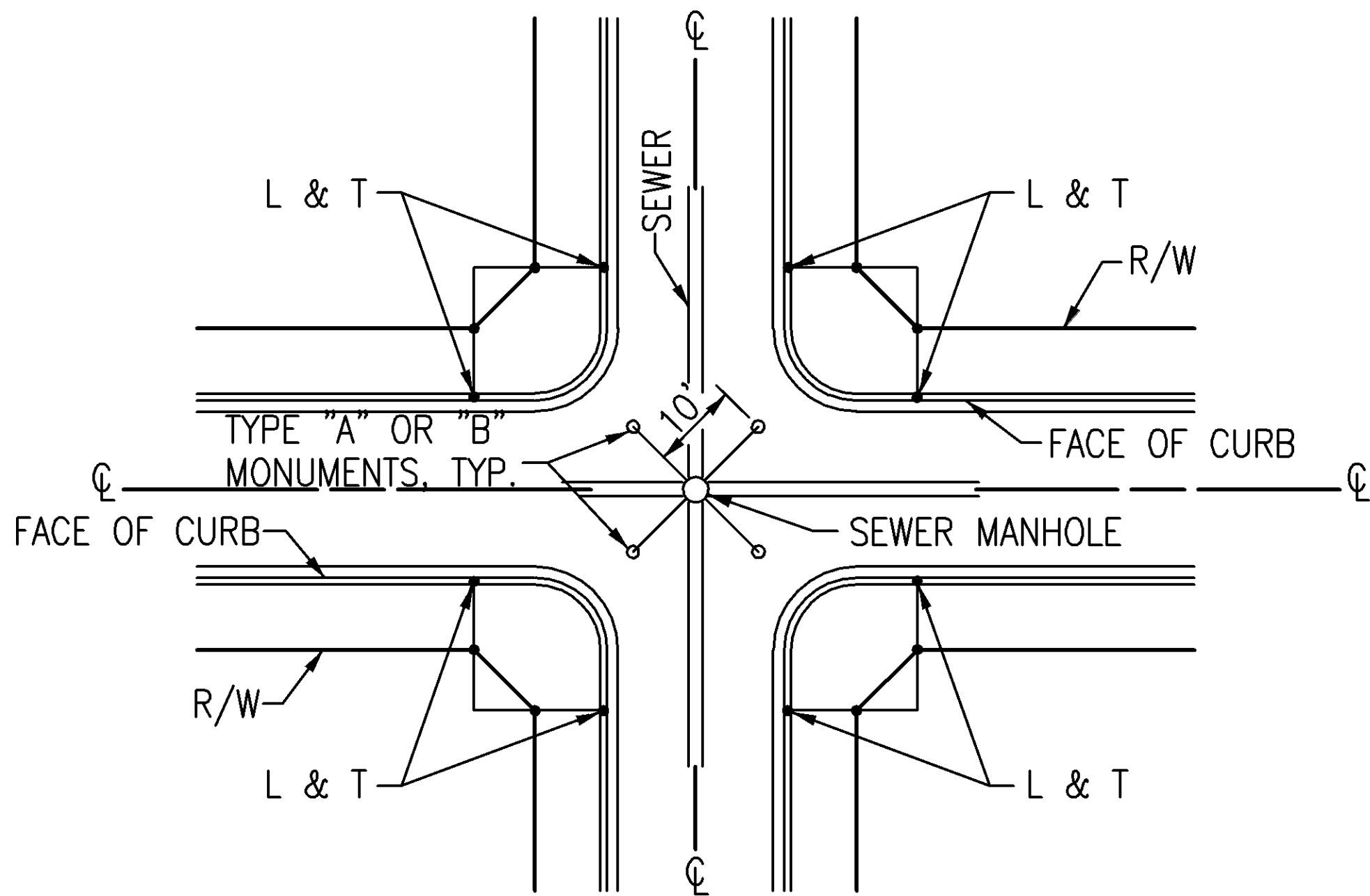


CITY ENGINEER

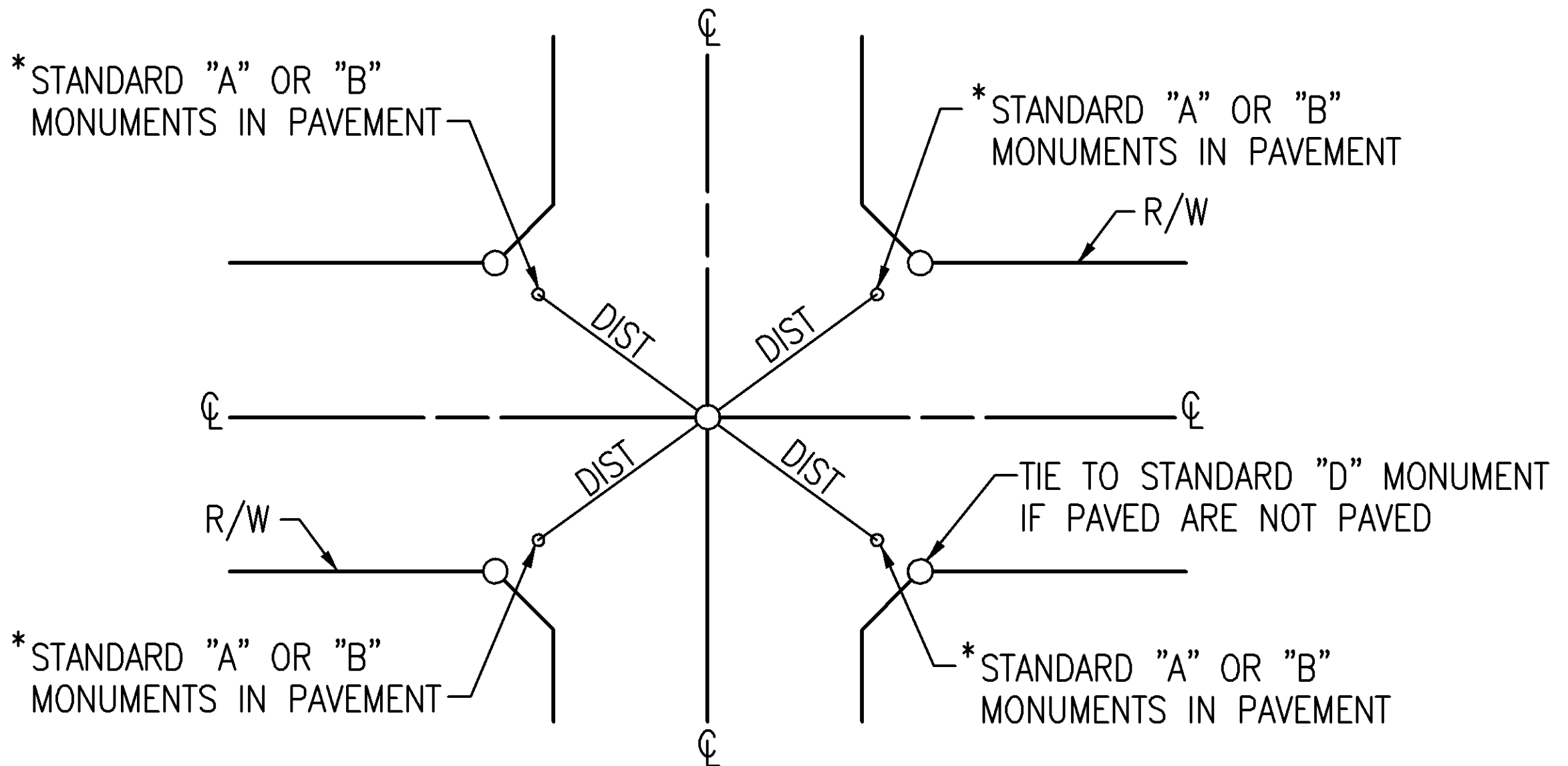
DATE

TYPE "B"
MONUMENT

701



MONUMENTING STREET CENTERLINES WHEN SEWERS ARE LOCATED ON CENTERLINE USING 10' CROSS TIES AND/OR SWING TIES



MONUMENTING STREET CENTERLINES WHERE CURBS ARE NOT REQUIRED

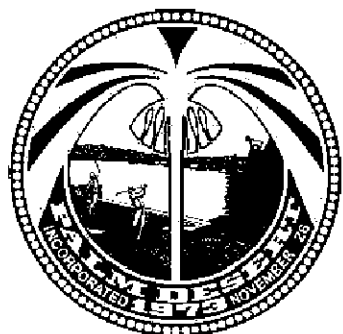
* SET TIE IN PAVEMENT IF RAW IS UNAVAILABLE.

NOTES:

1. L & T AS SHOWN HEREON INDICATES LEAD AND TACK OR STEEL PIN MONUMENT SET IN CURB.
2. LEAD AND TACK OR STEEL PIN MONUMENT WITNESS TO PROPERTY CORNER MAY BE SET, NOT REQUIRED.

N.T.S.

CITY OF PALM DESERT



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CITY ENGINEER

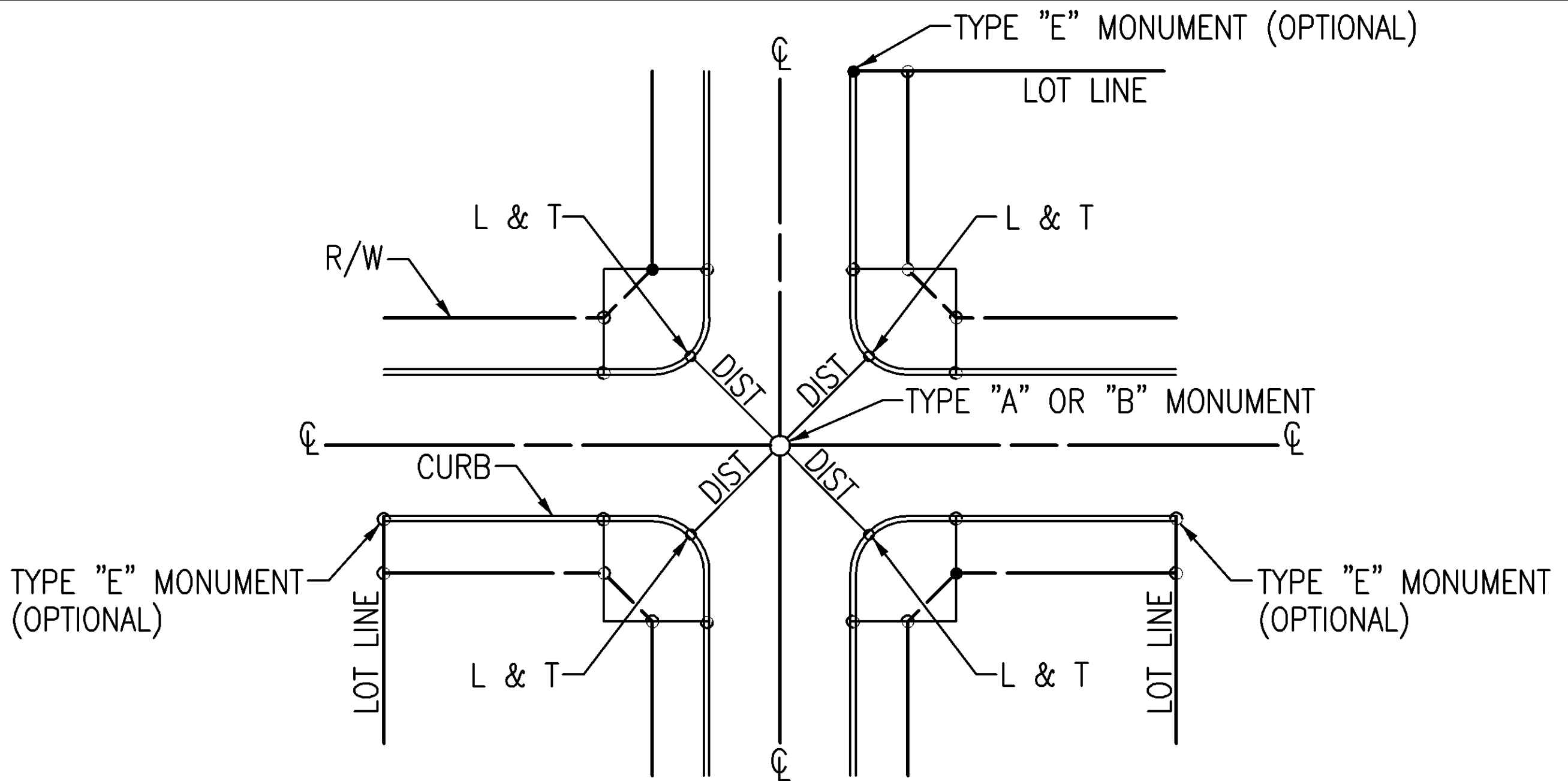
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DEPARTMENT OF PUBLIC WORKS

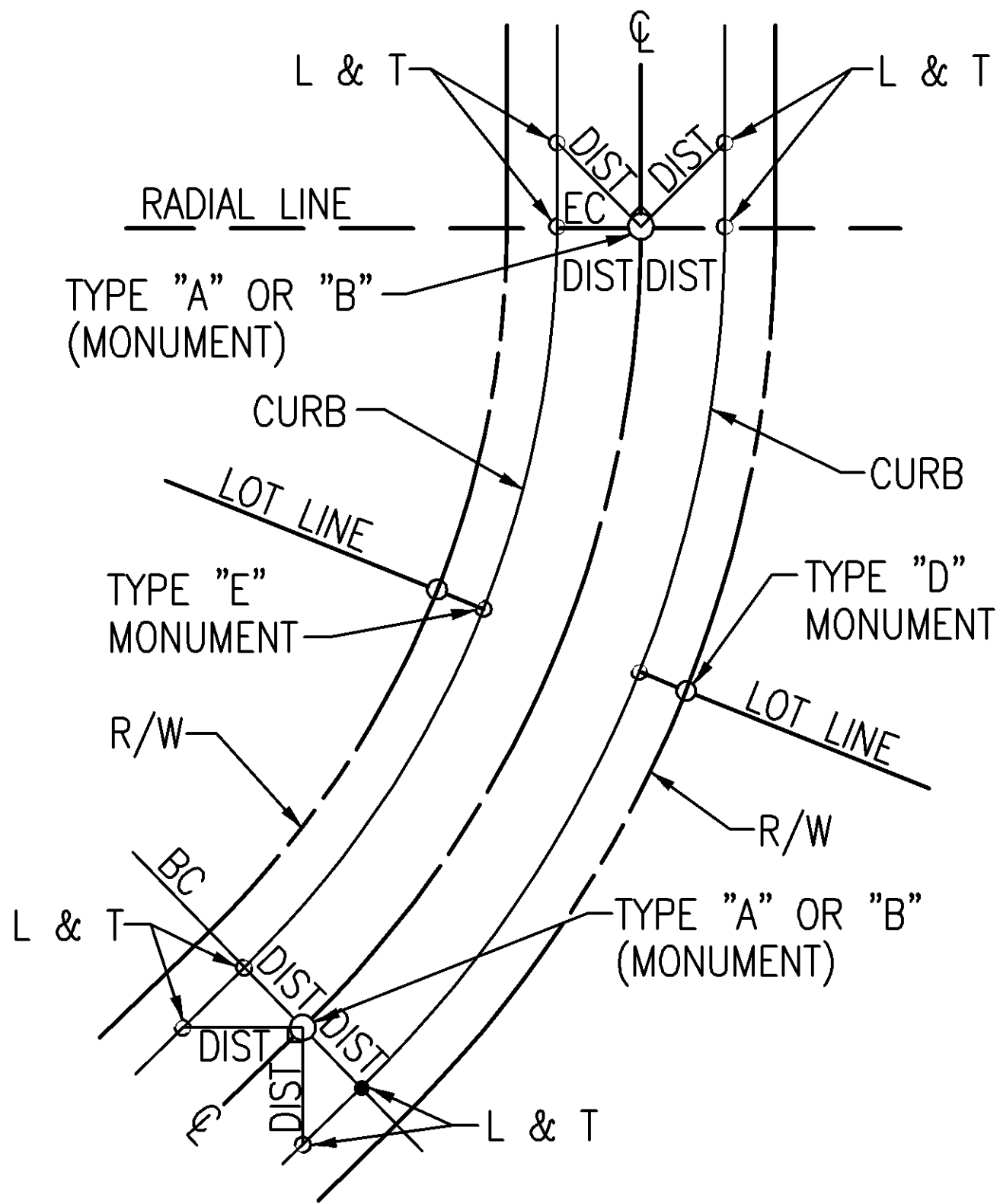
STD NO.

**TIE-OUT
STANDARDS**

702



**MONUMENTING STREET INTERSECTIONS
WHERE CURBS AND GUTTERS ARE INSTALLED**



**MONUMENTING
BEGINNING AND ENDING OF CURVE**

NOTES:

1. L & T AS SHOWN HEREON INDICATES A LEAD AND TACK OR STEEL PIN MONUMENT SET IN CONCRETE CURB.
2. A METAL IDENTIFICATION DISK SET WITH A LEAD AND TAG OR STEEL PIN MONUMENT WITNESS TO PROPERTY CORNER MAY BE SET ("E" MONUMENT), IN LIEU OF SETTING FRONT LOT CORNERS ("D" MONUMENT).
3. THE PI OF THE CURVE CENTERLINE OF A STREET MAY BE MONUMENTED IN LIEU OF EC & BC, IF THE PI FALLS WITHIN THE TRAVELED WAY. IT SHALL BE REFERENCED WITH L & T'S IN CURB.
4. TYING OUT BC'S AND EC'S WITH 90 DEGREE TIES INTO THE TANGENT.

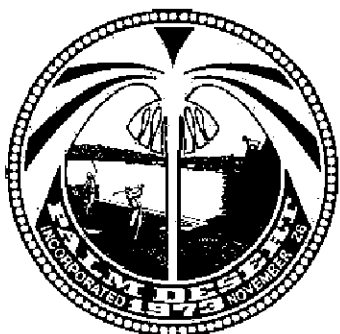
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CITY OF PALM DESERT

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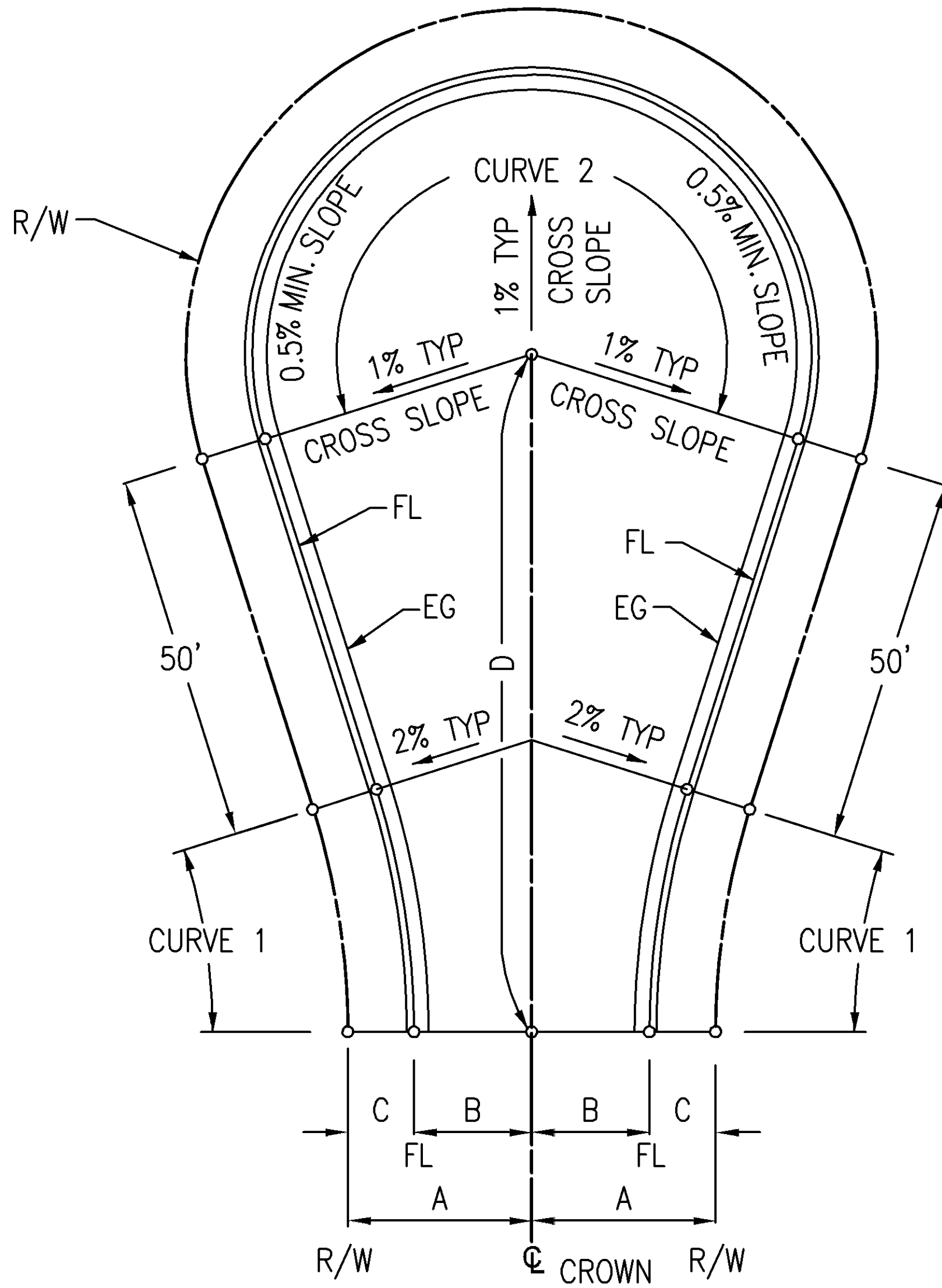


CITY ENGINEER

DATE

**STREET CENTERLINE
MONUMENT**

703



R/W	A	B	C	D	CURVE 1				CURVE 2					
					△	FL		R/W		△	FL		R/W	
						R	L	R	L		R	L	R	L
50'	25'	16'	9'	92.11'	17°36'01"	109'	33.48'	100'	30.72'	215°12'02"	38'	142.73'	47'	176.53'
56'	28'	18'	10'	89.55'	16°18'41"	110'	31.31'	100'	28.47'	212°37'22"	38'	141.02'	48'	178.12'
60'	30'	20'	10'	86.63'	15°00'38"	110'	28.82'	100'	26.20'	210°01'17"	38'	139.29'	48'	175.95'
66'	33'	22'	11'	83.74'	13°38'40"	111'	26.44'	100'	23.82'	207°17'21"	38'	137.48'	49'	177.28'
74'	37'	22'	15'	84.50'	13°34'05"	115'	27.23'	100'	23.68'	207°08'10"	38'	137.38'	53'	191.61'
78'	39'	28'	11'	95.39'	17°12'31"	111'	33.33'	100'	30.03'	214°25'02"	50'	187.11'	61'	228.28'
SCHEDULE "H"					CURVE 1—EDGE OF AGGREGATE BASE					CURVE 2—EDGE OF AGGREGATE BASE				
—	—	12'		90.00	21°02'30"	82.69'	30.37'	—	—	222°04'59"	38'	147.29'	—	—

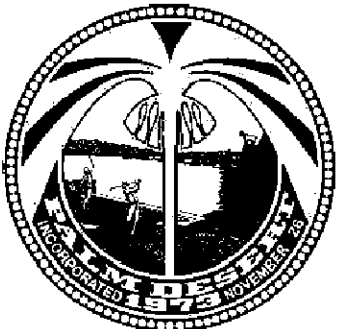
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CITY OF PALM DESERT

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STD NO.

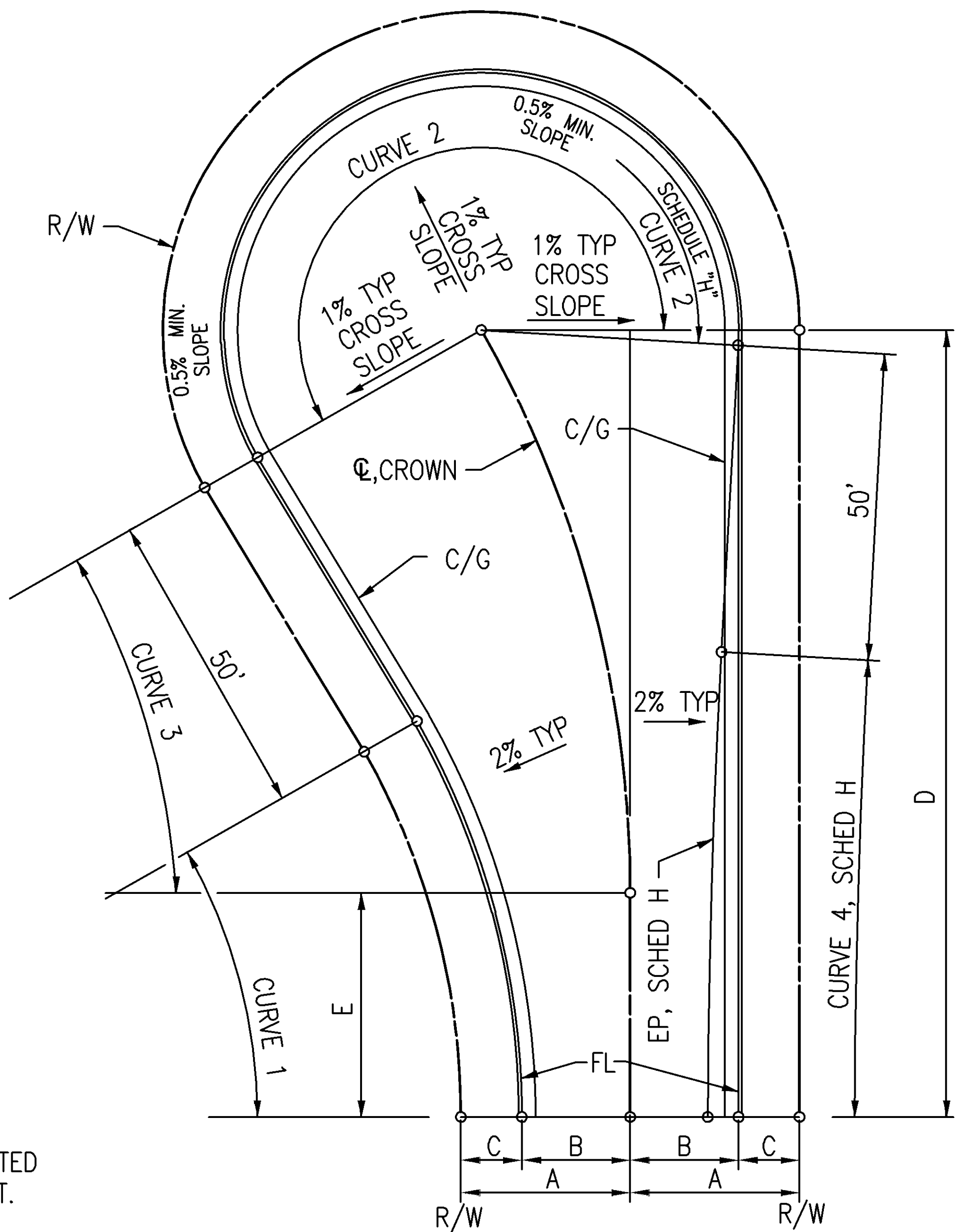


CITY ENGINEER

DATE

CUL-DE-SAC
(SYMMETRICAL)

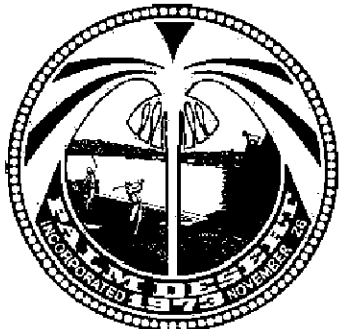
800



OFFSET MAY BE LOCATED
EITHER LEFT OR RIGHT.

N.T.S.						CURVE 1				CURVE 2				CURVE 3				
R/W	A	B	C	D	E	△	FL		R/W		△	FL		R/W		△	CROWN	
							R	L	R	L		R	L	R	L			
50'	25'	16'	9'	116.19'	32.00'	29°39'31"	109'	56.42'	100'	51.76'	209°39'31"	38'	139.05'	47'	171.98'	29°39'31"	170.14'	88.07'
56'	28'	18'	10'	112.87'	31.44'	27°35'48"	110'	52.98'	100'	48.17'	207°35'48"	38'	137.68'	48'	173.92'	27°35'47"	175.79'	84.67'
60'	30'	20'	10'	108.90'	29.45'	25°31'48"	110'	49.01'	100'	44.56'	205°31'48"	38'	136.31'	48'	172.18'	25°31'48"	184.35'	82.14'
66'	33'	22'	11'	104.94'	27.47'	23°20'19"	111'	45.21'	100'	40.73'	203°20'19"	38'	134.86'	49'	173.90'	23°20'19"	195.54'	79.65'
74'	37'	22'	15'	106.15'	28.08'	23°09'45"	115'	46.49'	100'	40.43'	203°09'45"	38'	134.74'	53'	187.93'	23°09'45"	198.48'	80.24'
78'	39'	28'	11'	121.38'	35.69'	28°47'56"	111'	55.79'	100'	50.26'	208°47'56"	50'	182.21'	61'	222.30'	28°47'56"	177.87'	89.41'
SCHEDULE "H"						CURVE 1-EDGE OF AB				CURVE 2-EDGE OF AB				CURVE 4-EDGE OF AB				
—	—	12'		113.58'	31.79'	31°24'45"	98.05'	55.47'	—	—	215°36'50"	38'	143.00'	—	—	4°12'05"	831.70'	60.99'

CITY OF PALM DESERT



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CITY ENGINEER

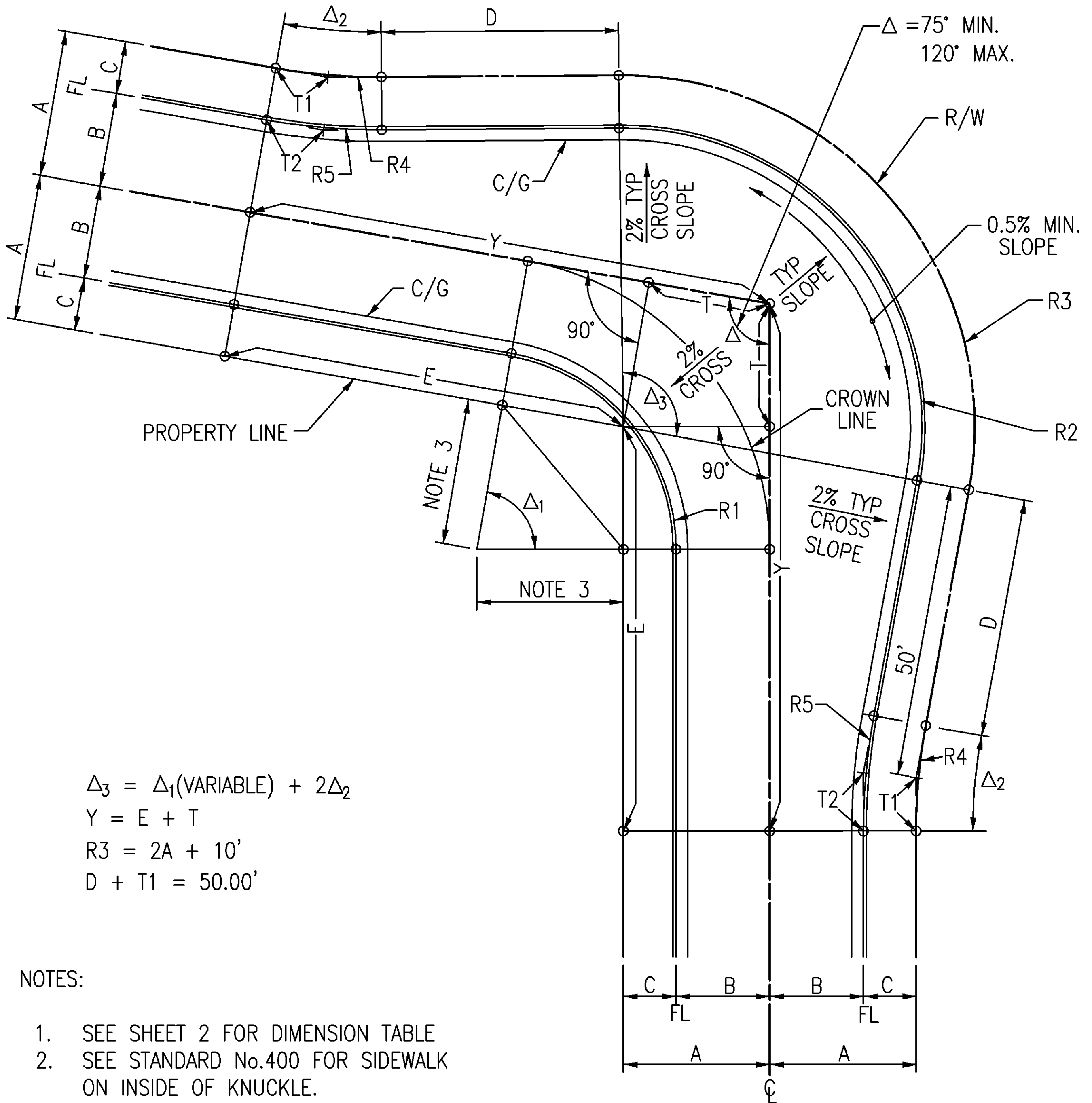
DATE

DEPARTMENT OF PUBLIC WORKS

CUL-DE-SAC
(ASYMMETRICAL)

STD NO.

801



$$\Delta_3 = \Delta_1(\text{VARIABLE}) + 2\Delta_2$$

$$Y = E + T$$

$$R3 = 2A + 10'$$

$$D + T1 = 50.00'$$

NOTES:

1. SEE SHEET 2 FOR DIMENSION TABLE
2. SEE STANDARD No.400 FOR SIDEWALK ON INSIDE OF KNUCKLE.
3. 25' REGARDLESS OF R/W WIDTH.

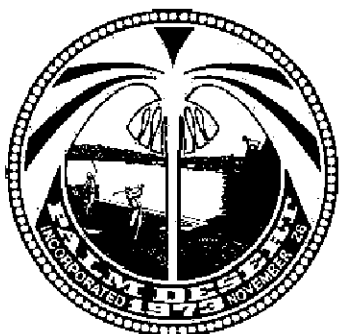
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



CITY ENGINEER

DATE

KNUCKLE

802

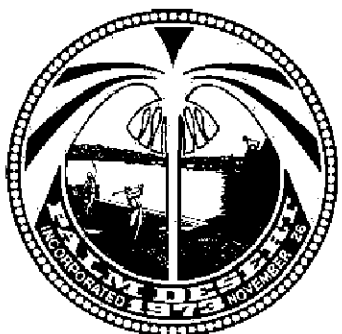
SHEET 1 OF 2

KNUCKLE DIMENSION TABLE

R/W	ROADWAY IMPROVEMENT WIDTH	A	B	C	D	E	R1	R2	R3	Δ_2	R4	T1	R5	T2
50'	32'	25'	16'	9'	40.91'	69.09'	35'	51'	60'	10°23'19"	100'	9.09'	109'	9.91'
56'	36'	28'	18'	10'	40.99'	70.00'	35'	56'	66'	10°17'48"	100'	9.01'	110'	9.91'
60'	40'	30'	20'	10'	41.04'	70.60'	35'	60'	70'	10°14'12"	100'	8.96'	110'	9.85'
66'	44'	33'	22'	11'	41.12'	71.49'	36'	65'	76'	10°08'58"	100'	8.88'	111'	9.86'
74'	44'	37'	22'	15'	41.22'	72.66'	40'	69'	84'	10°02'13"	100'	8.88'	115'	10.10'
78'	56'	39'	28'	11'	41.27'	73.23'	36'	77'	88'	9°58'58"	100'	8.73'	111'	9.69'

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

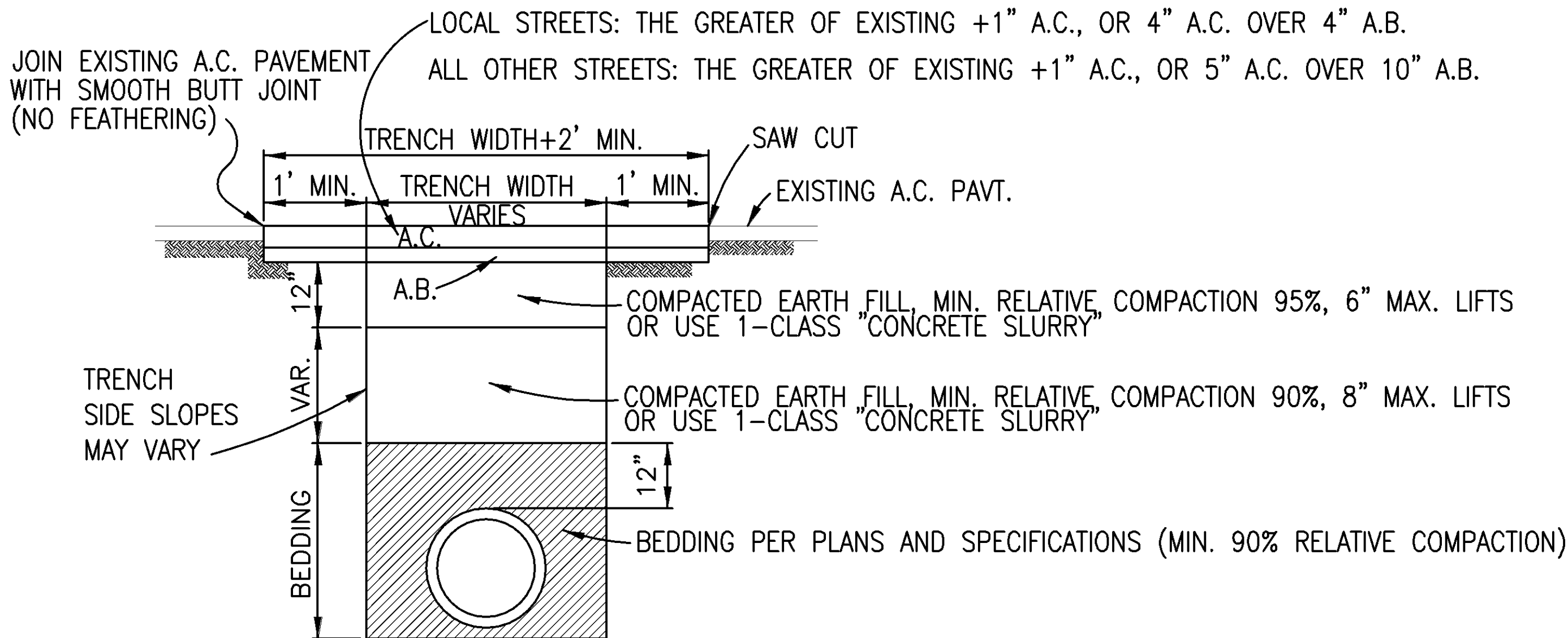
DEPARTMENT OF PUBLIC WORKS

KNUCKLE

STD NO.

802

SHEET 2 OF 2



"T-TRENCH" DETAIL
 NOT TO SCALE

NOTE:

AN ALTERNATIVE SECTION MAY BE CONSIDERED. PROPOSED DESIGN SHALL BE SIGNED BY A LICENSED ENGINEER AND IS SUBJECT TO APPROVAL OF THE CITY ENGINEER.

TRANSVERSE TRENCH CUTS

- 0" TO 12" WIDE - REPAIR TRENCH WIDTH ONLY (NO "T-TRENCH")
- 12" TO 24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES
- >24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES PLUS GRIND/OVERLAY 0.1' MIN. DEPTH FOR AN ADDITIONAL 3' ON BOTH SIDES

LONGITUDINAL TRENCH CUTS IN DRIVING LANES

- 0" TO 12" WIDE - REPAIR TRENCH WIDTH ONLY (NO "T-TRENCH") PLUS 0.1' GRIND AND OVERLAY FROM LANE LINE TO LANE LINE
 - 12" TO 24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES PLUS 0.1' GRIND/OVERLAY FROM LANE LINE TO LANE LINE
 - >24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES PLUS GRIND/OVERLAY 0.1' MIN. FROM LANE LINE TO LANE LINE
- FOR CAP, MILL CL TO LIP OF GUTTER, OR LANE LINE TO LIP OF GUTTER 0.1'

SHOULDER TRENCH CUTS

- AT EDGE OF GUTTER - REPAIR TRENCH WIDTH ONLY (NO "T-TRENCH")
- OFF EDGE OF GUTTER - NO LESS THAN 5' "FLOATER" BETWEEN TRENCH AND GUTTER
- SLURRY OR FOG SEAL MAY BE REQUIRED UNLESS THE ROADWAY IS A DESIGNATED BIKE ROUTE, WHICH WOULD REQUIRE A 0.1' THICK GRIND/OVERLAY FROM EDGE OF GUTTER TO LANE LINE.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

 CITY ENGINEER

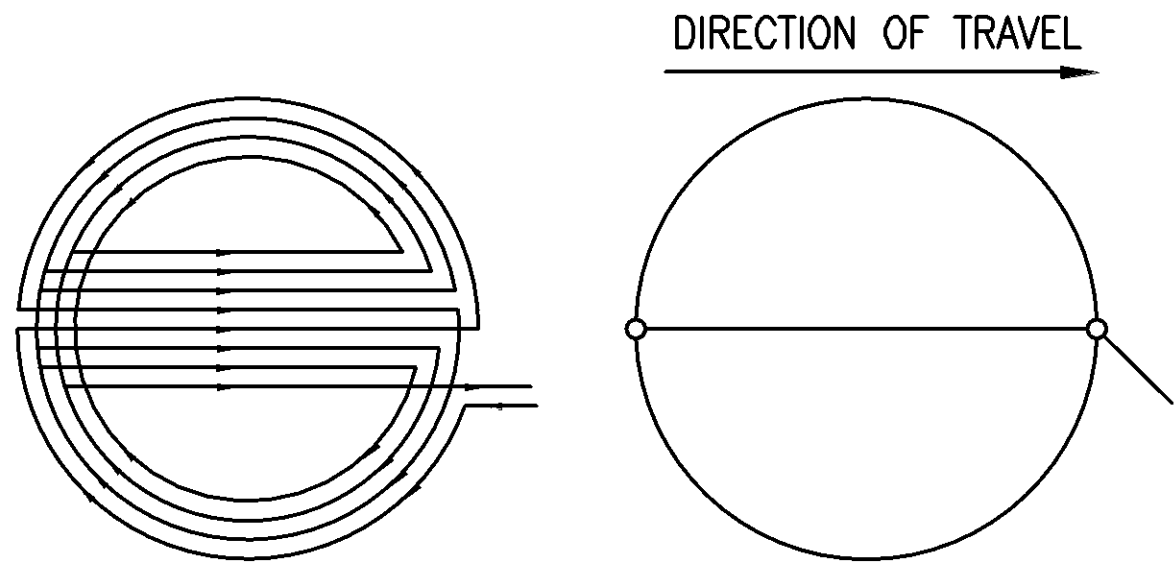
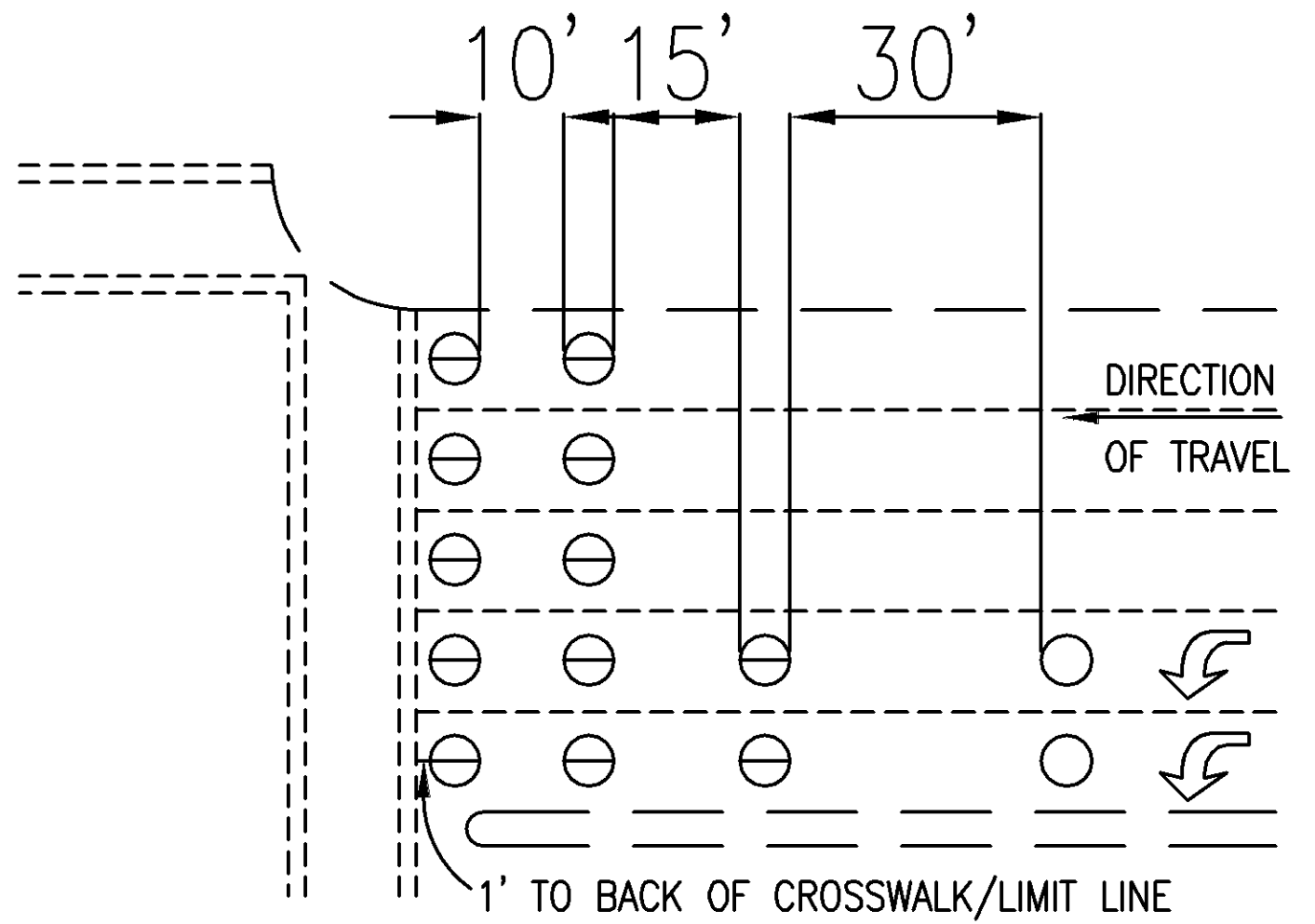
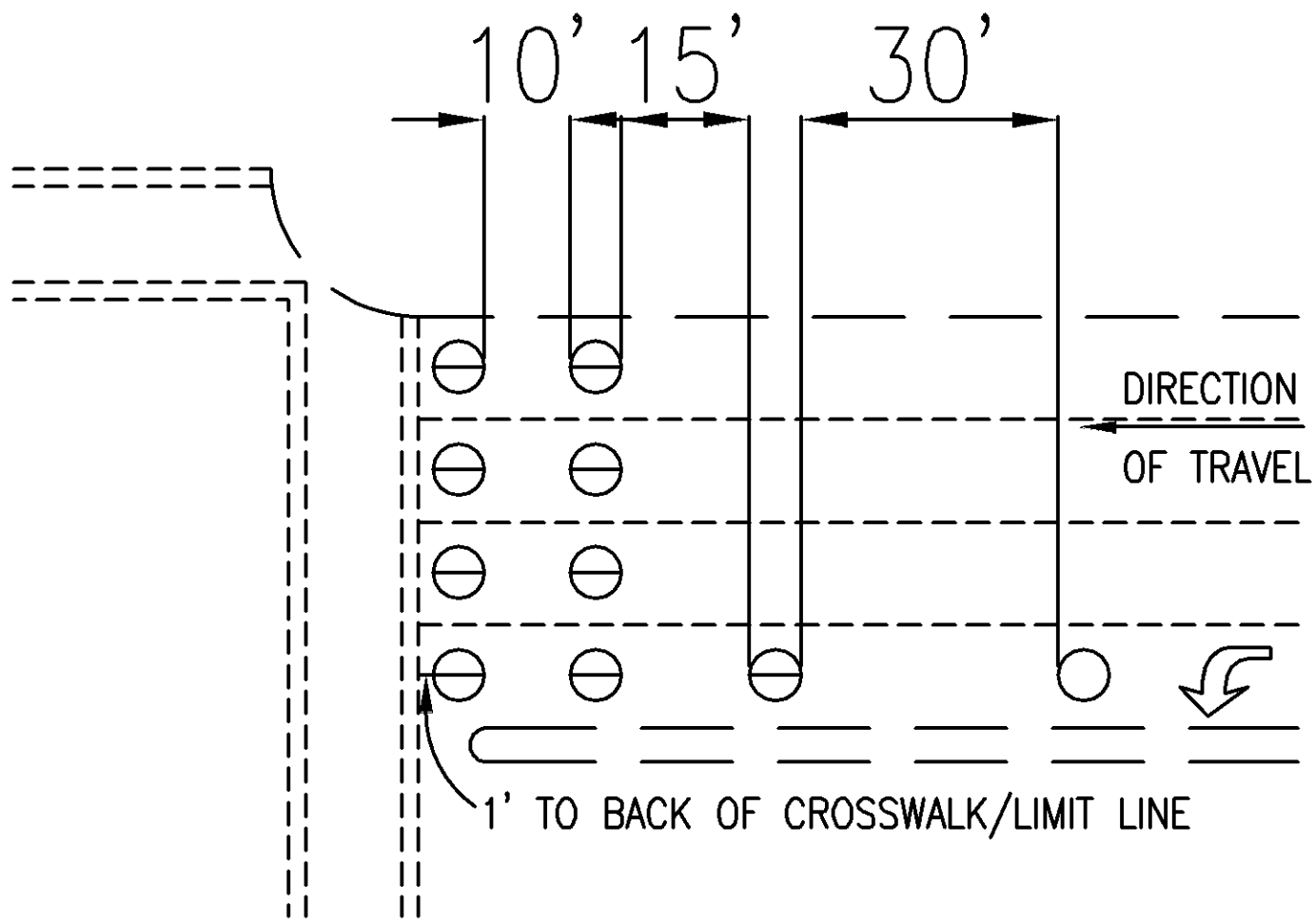
 DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

UTILITY TRENCH
 PAVEMENT
 REPLACEMENT

803



WINDING DETAIL

SAWCUT DETAIL

6' DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLAN

NOTES

1. HOME RUN SAW CUTS WILL BE LAID-OUT IN THE FIELD.
2. RE-CUT LOOPS IN RIGHT TURN POCKETS, IF EXISTING.

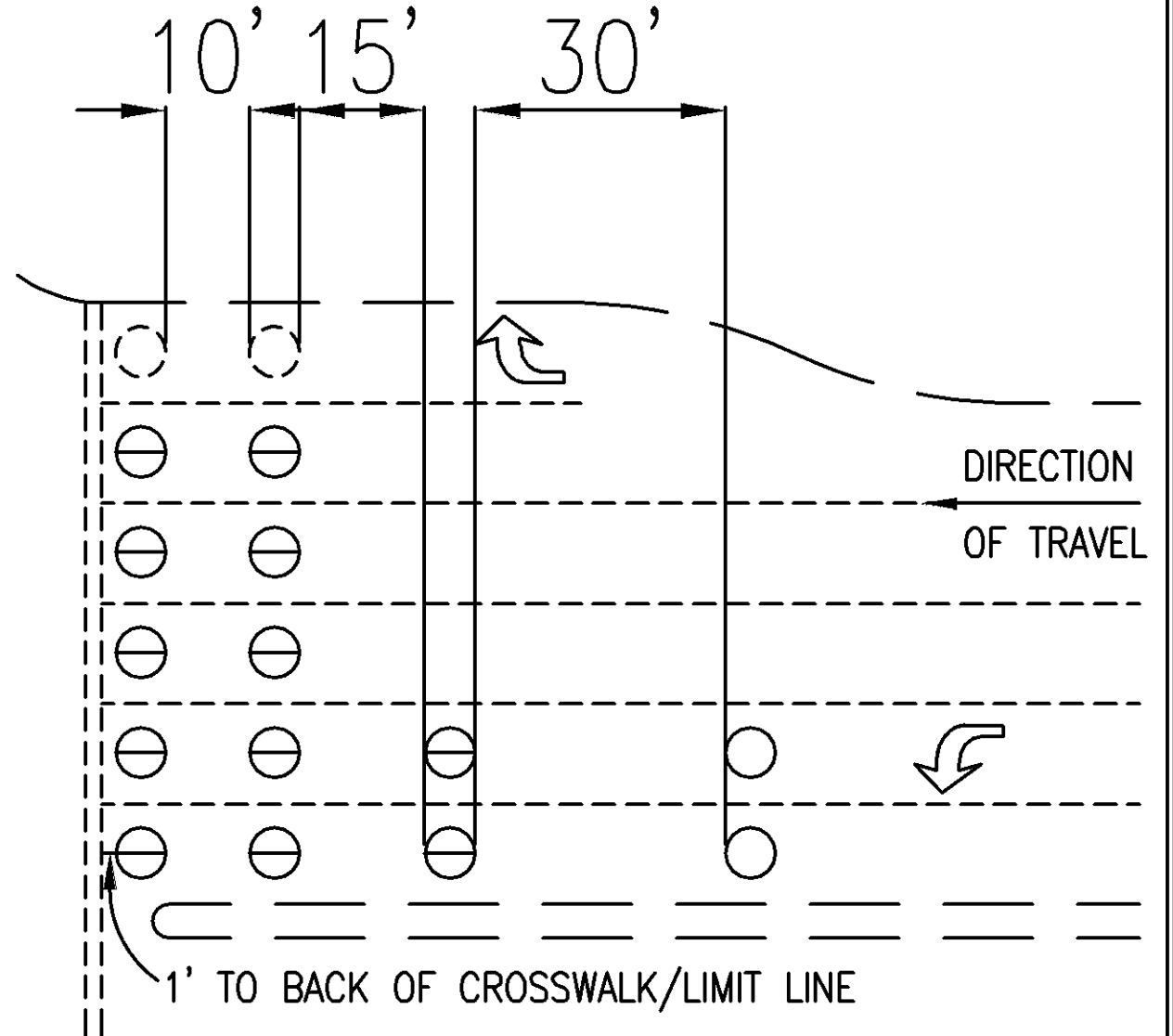
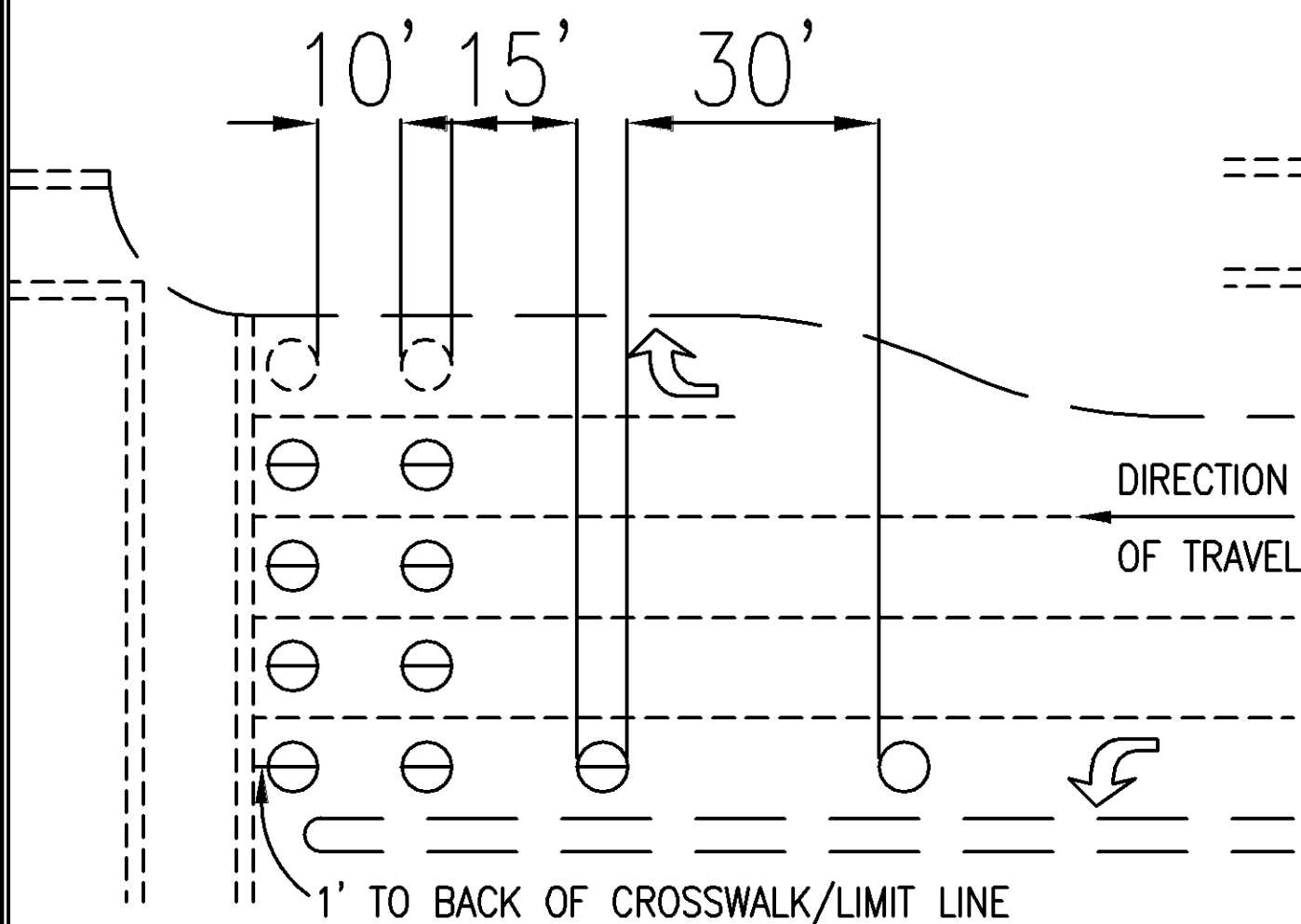
⊖ - TYPE E MODIFIED LOOP

○ - TYPE E LOOP

⊙ - TYPE E, RE-CUT IF EXISTING

TYPE E MODIFIED

⊖ - TYPE E MODIFIED LOOP SHALL BE WRAPPED A MINIMUM OF 4 TURNS



NOTE:
ABOVE DETAILS DEPICTS 3 THROUGH APPROACH LANES. ACTUAL NUMBER OF THROUGH APPROACH LANES MAY VARY.

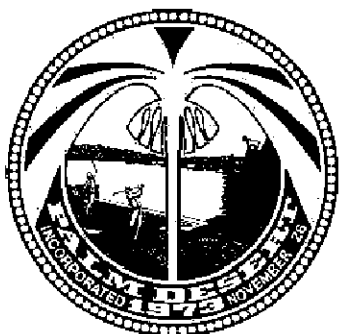
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

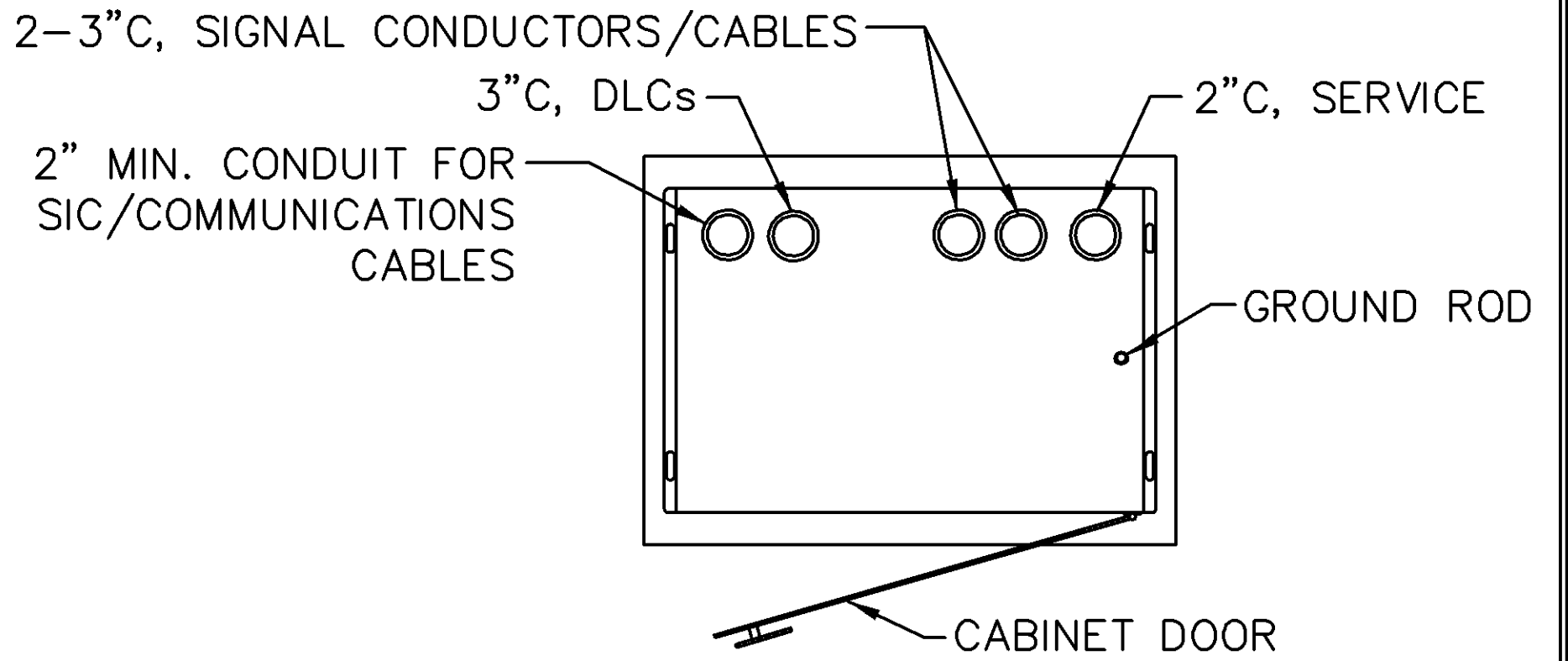


CITY ENGINEER

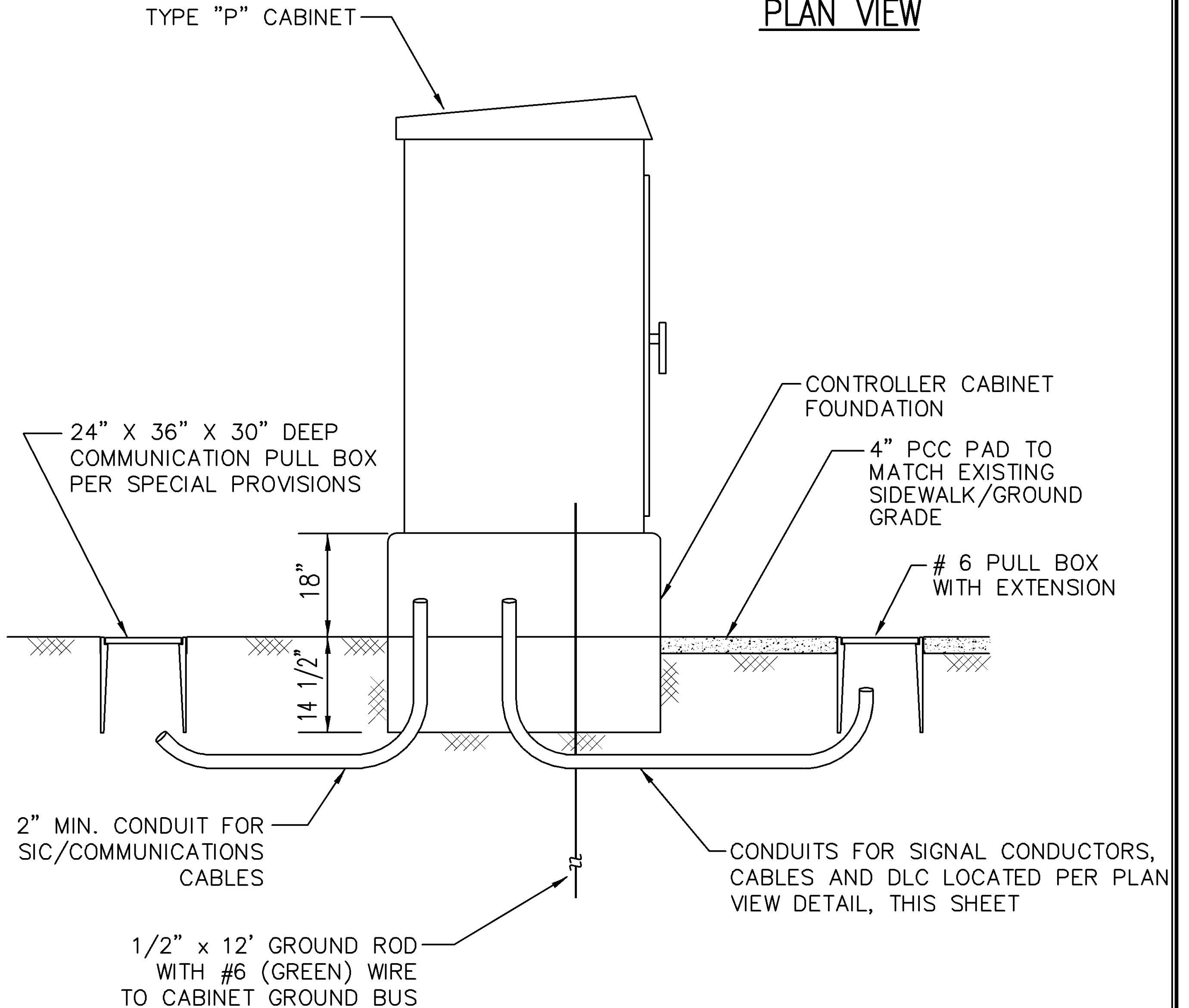
DATE

TYPICAL LOOP DETECTOR

900



PLAN VIEW



SIDE VIEW

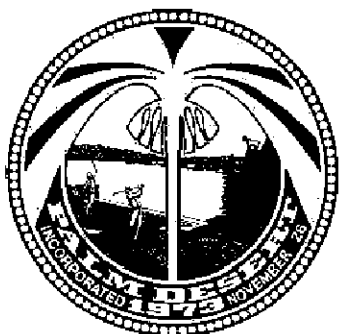
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

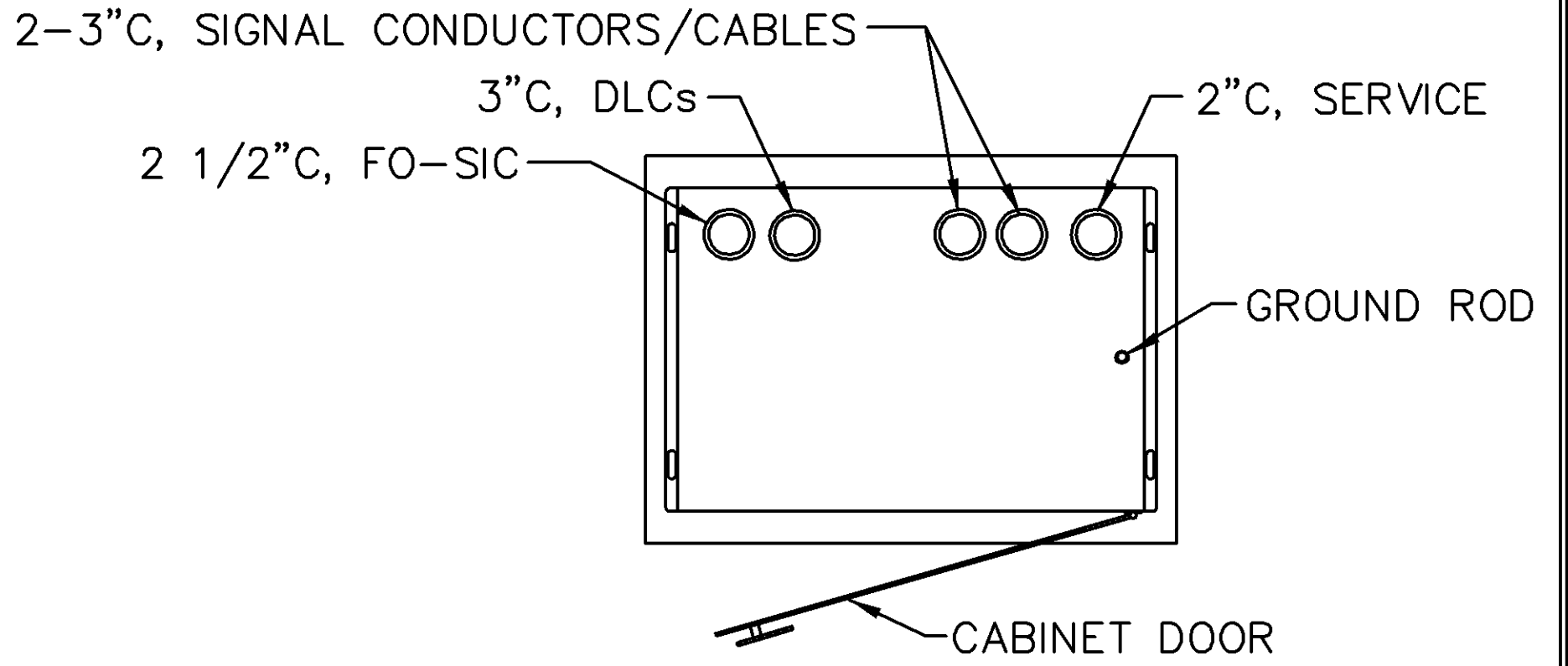


CITY ENGINEER

DATE

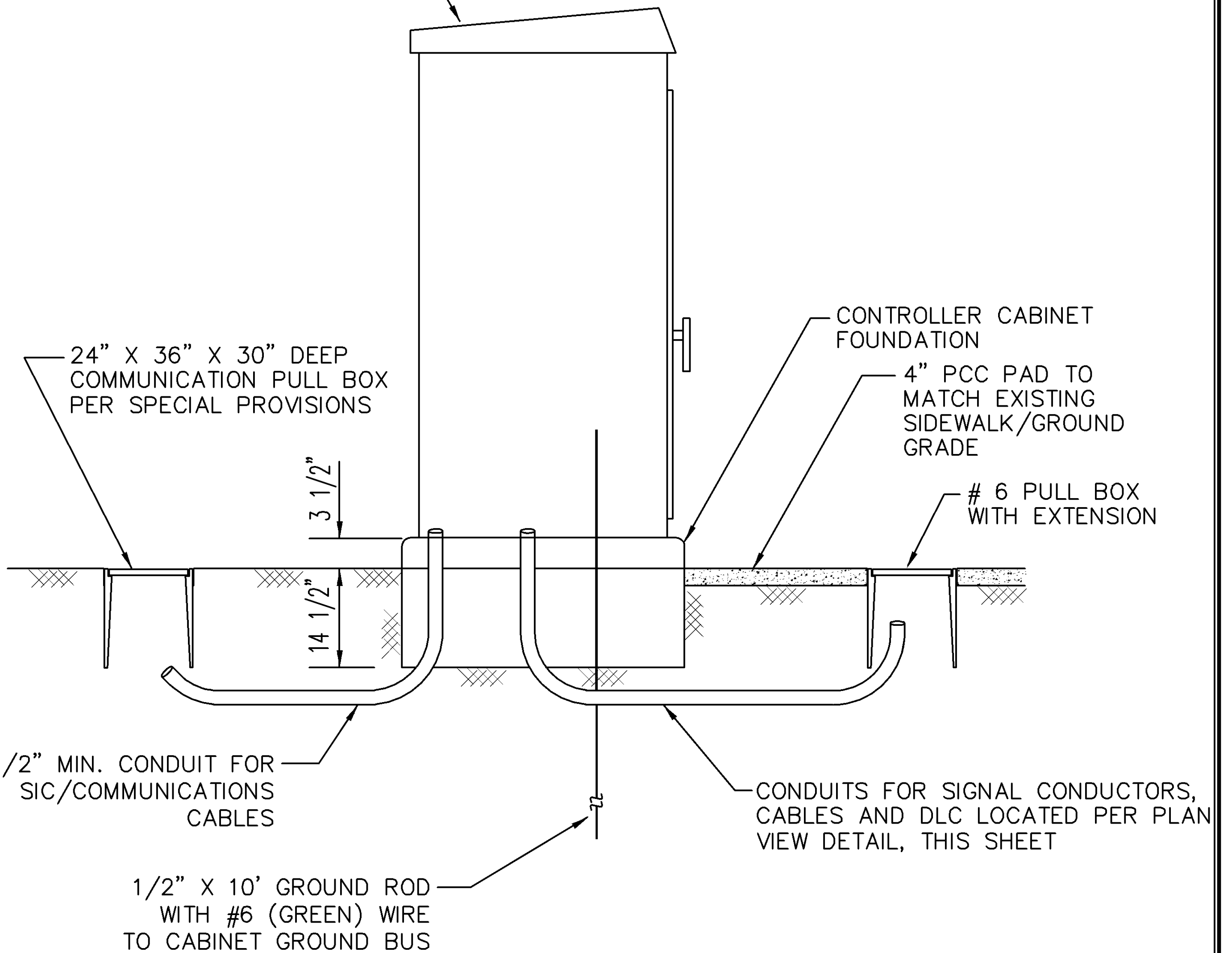
TYPE "P" CONTROLLER ASSEMBLY DETAIL

901



PLAN VIEW

TYPE "R" CABINET



SIDE VIEW

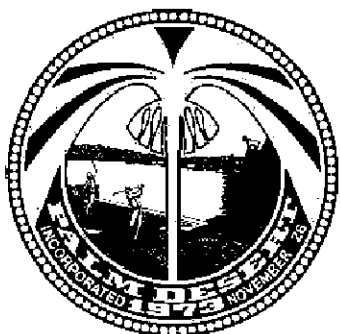
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

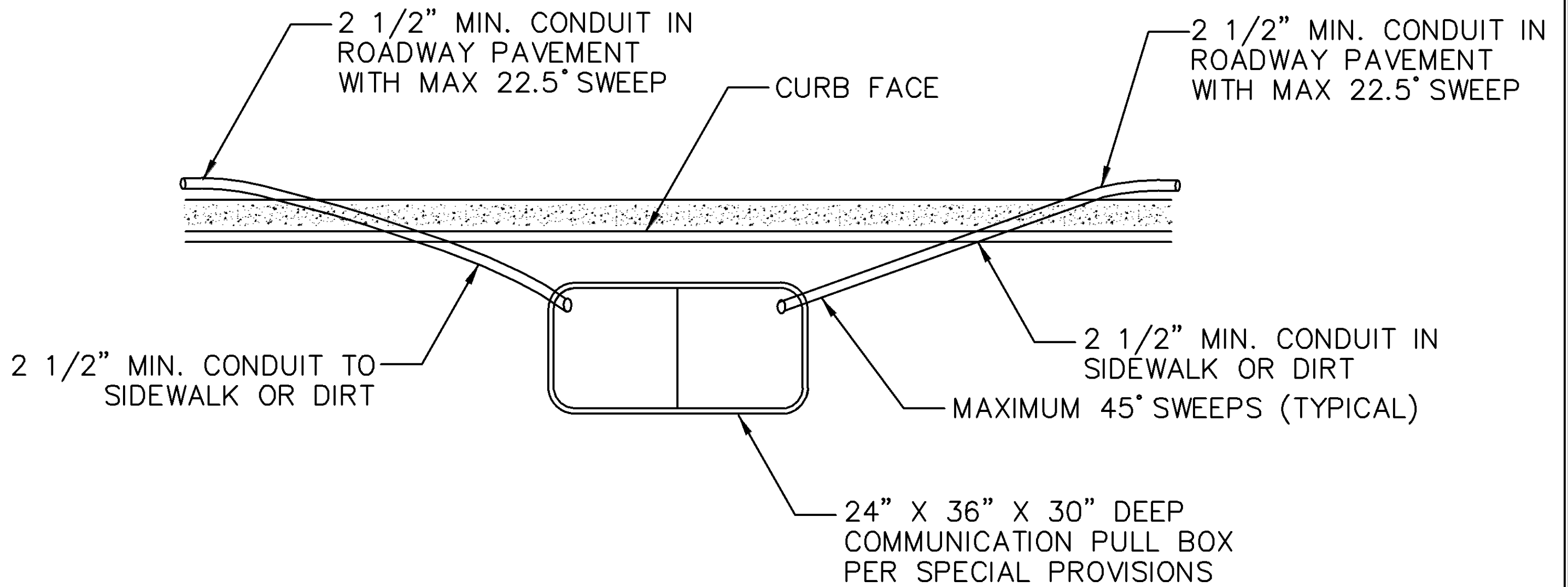


CITY ENGINEER

DATE

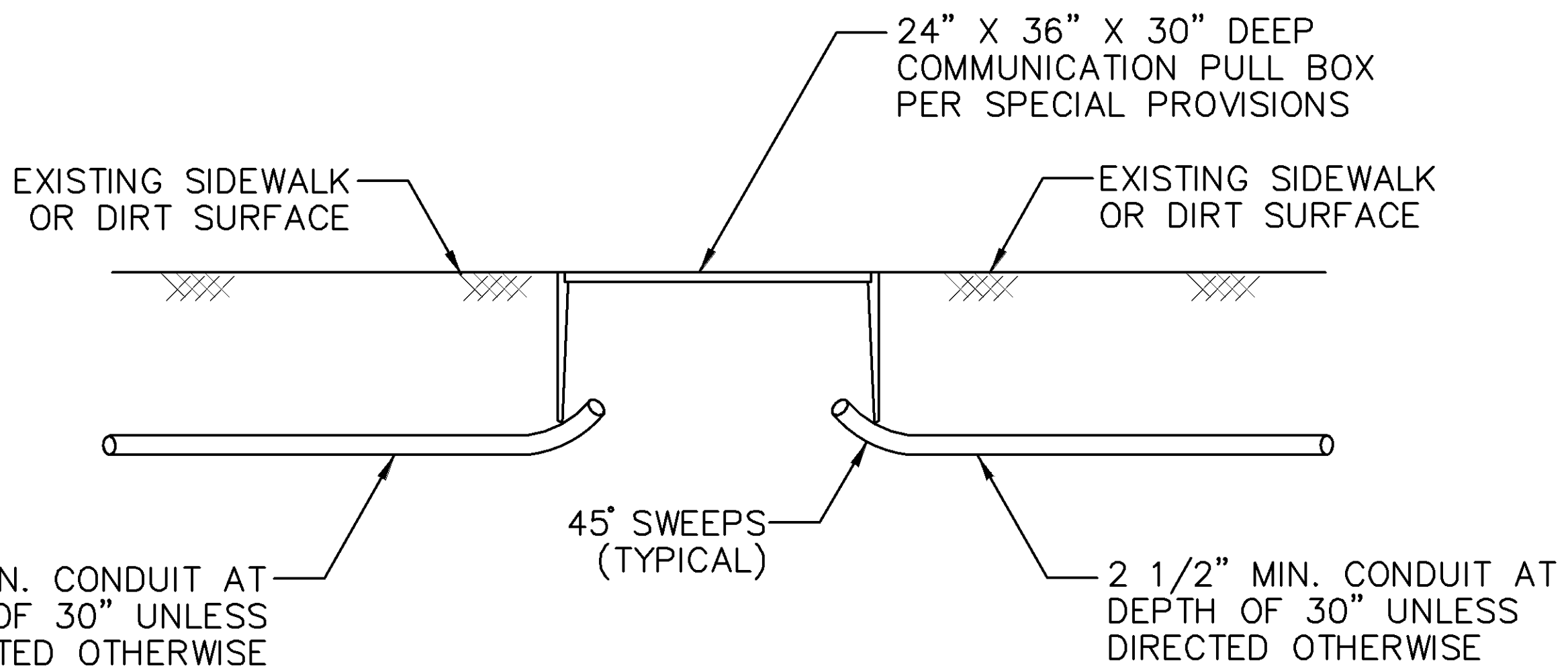
TYPE "R" CONTROLLER
ASSEMBLY
DETAIL

902



PLAN VIEW

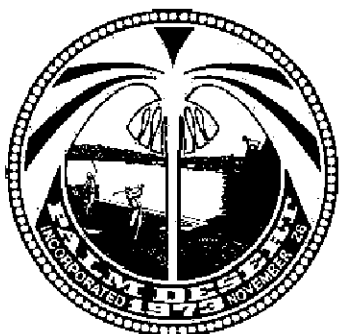
2 1/2" CONDUIT OR
AS STATED IN PLANS



SIDE VIEW

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

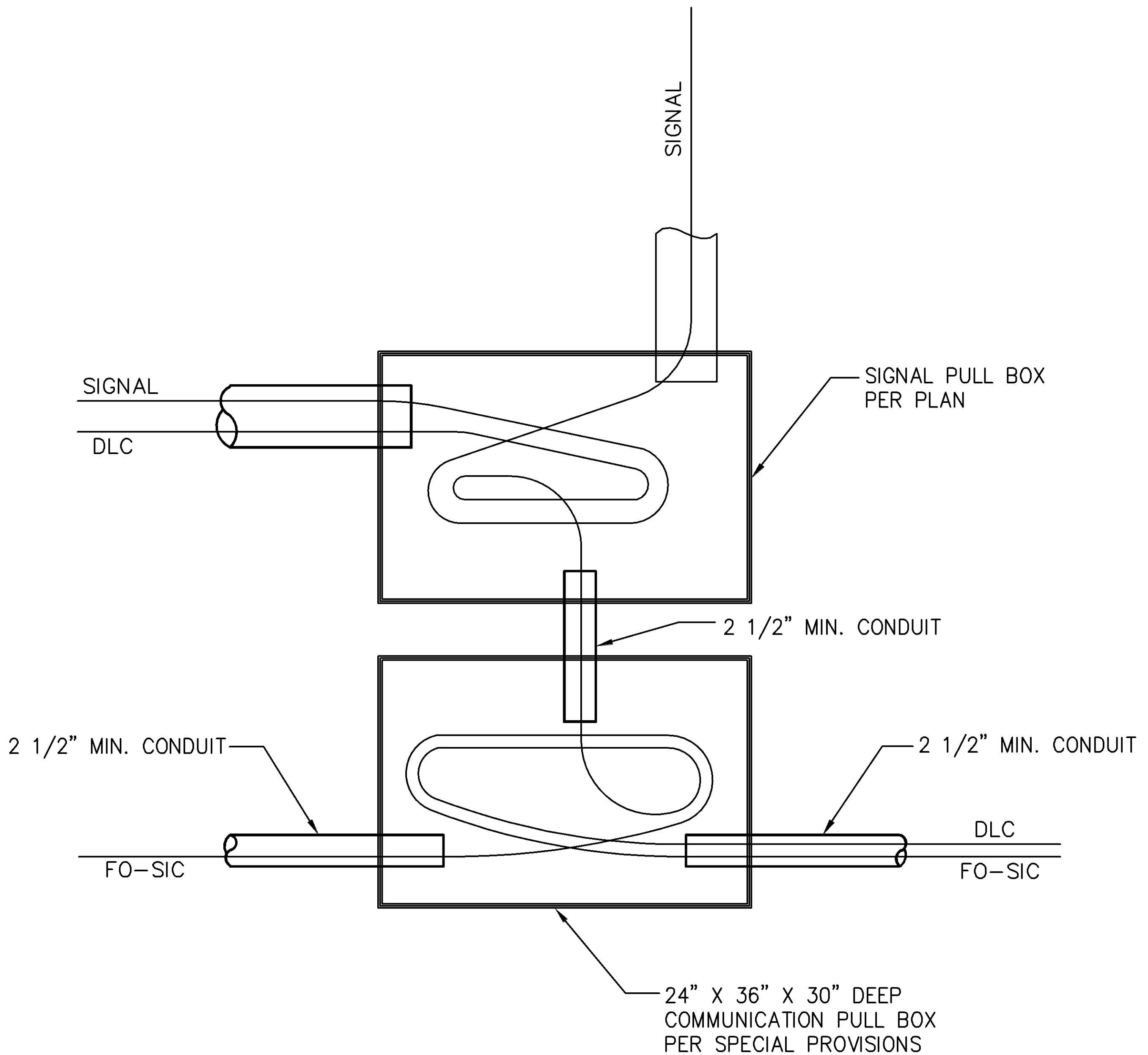
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

INTERCONNECT
PULL BOX
DETAILS

903



NOTE

1. CONDUIT, CONDUCTORS AND PULLBOXES SHALL BE PER THE PLAN.
2. THIS DETAIL IS SCHEMATIC. FIELD CONDITIONS MAY REQUIRE VARIED CONFIGURATIONS.
3. SIGNAL AND FO-SIC CONDUCTORS MUST BE ISOLATED FROM EACH OTHER.

FO-SIC – FIBER OPTIC SIGNAL INTERCONNECT.

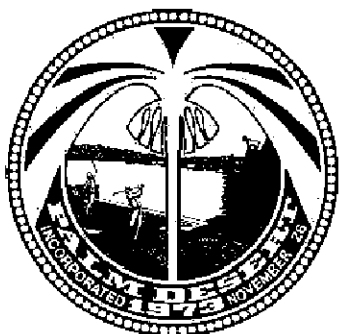
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

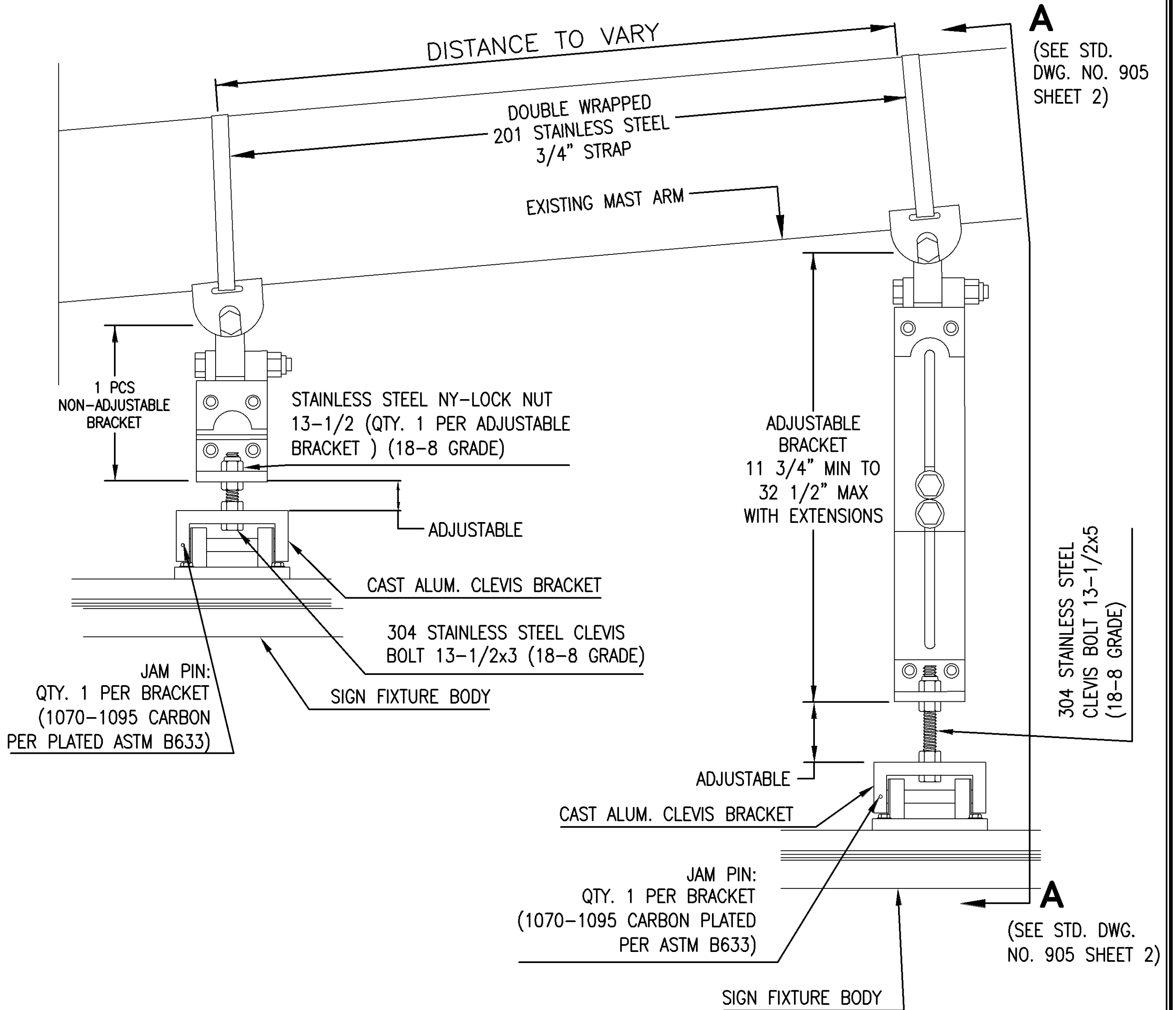


CITY ENGINEER

DATE

FO-SIC ISOLATION
DETAIL

904



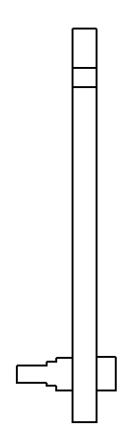
A
 (SEE STD.
 DWG. NO. 905
 SHEET 2)

A
 (SEE STD. DWG.
 NO. 905 SHEET 2)

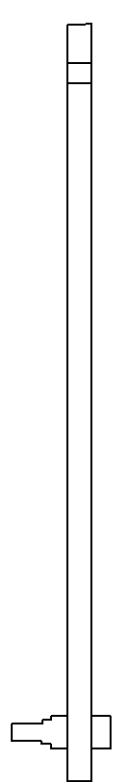
JAM PIN:
 QTY. 1 PER BRACKET
 (1070-1095 CARBON
 PER PLATED ASTM B633)

JAM PIN:
 QTY. 1 PER BRACKET
 (1070-1095 CARBON PLATED
 PER ASTM B633)

304 STAINLESS STEEL
 CLEVIS BOLT 13-1/2x5
 (18-8 GRADE)



4 1/2" SHORT EXTENSION



10" LONG EXTENSION

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

 CITY ENGINEER

 DATE

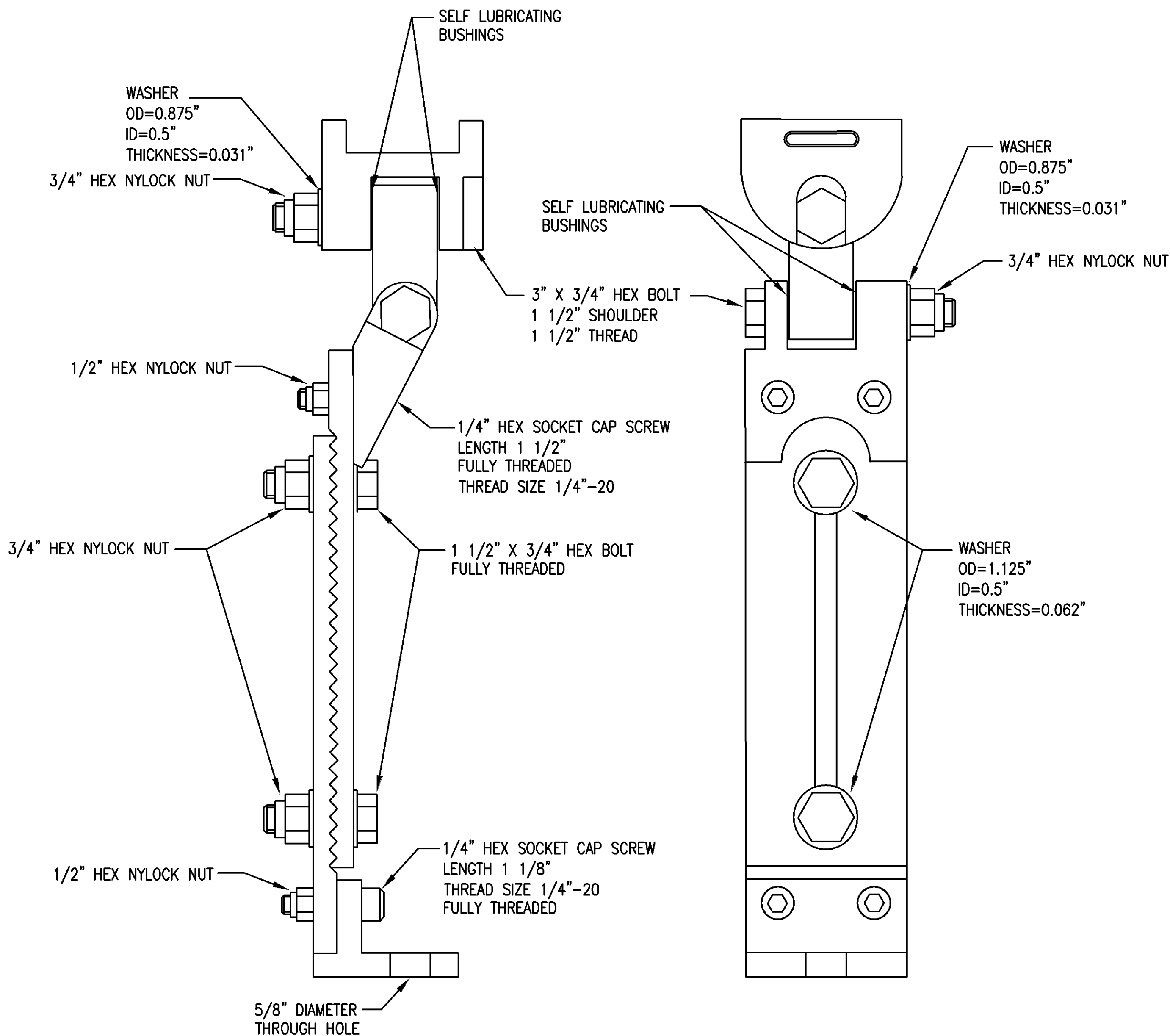
DEPARTMENT OF PUBLIC WORKS

STD NO.

IISNS MOUNTING
 DETAIL

905

SHEET 1 OF 2



SECTION A-A

NOTES

ALL MATERIAL SHALL BE 6061-T6 ALUMINUM OR BETTER.
 ALL HARDWARE SHALL BE STAINLESS STEEL.
 ALL NUTS SHALL BE STAINLESS STEEL NYLOCK.
 10" AND 4 1/2" EXTENSIONS SHALL BE PROVIDED WITH EACH BRACKET SET AND INSTALLED AS NEEDED.
 BRACKET SET SHALL BE PER STD. DWG. NO. 905 SHEET 1.

N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



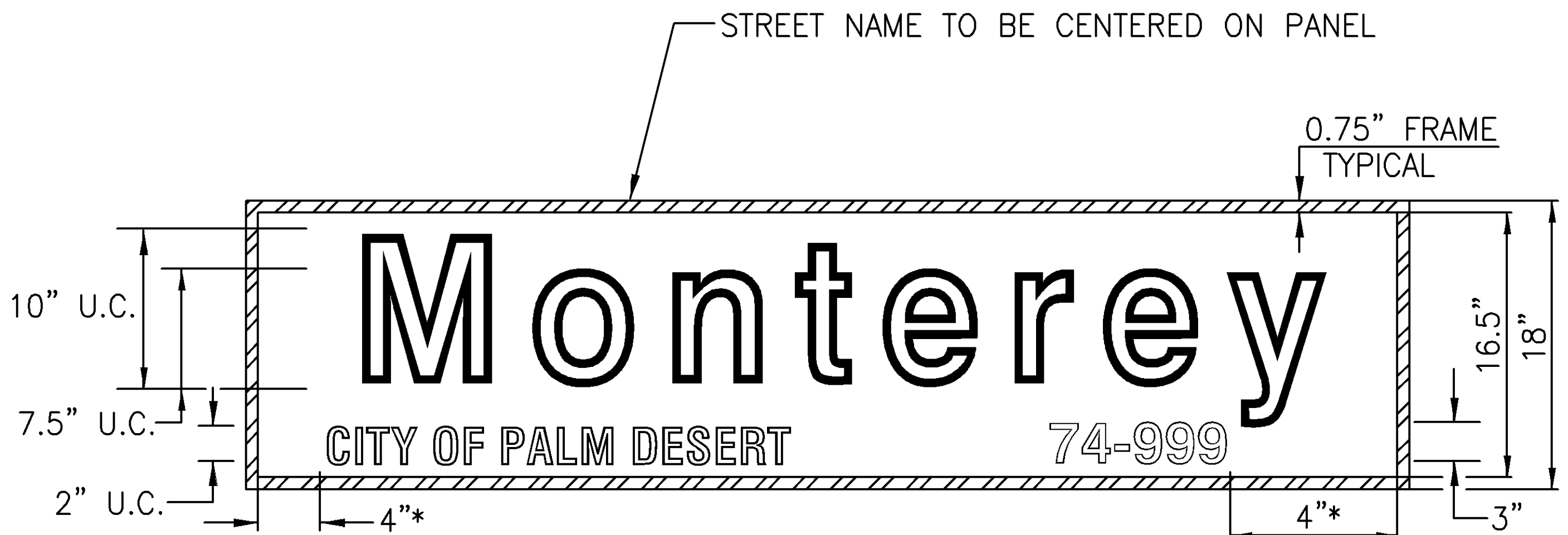
CITY ENGINEER

DATE

IISNS MOUNTING
DETAIL

905

SHEET 2 OF 2



* - POSITION CAN BE ADJUSTED TO AVOID CONFLICT WITH LOWER CASE LETTERING

STANDARD PANEL

NOTES:

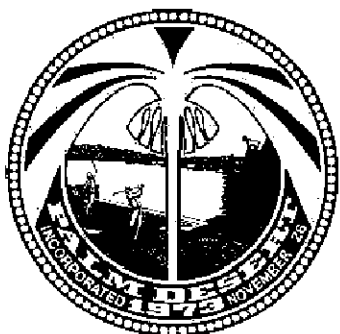
- 1) SIGNS SHALL BE TYPE "A" PER 2010 STATE STANDARD SPECIFICATIONS SECTION 86-6.09 AND 2010 STATE STANDARD PLAN #ES-7P EXCEPT ALL REFERENCE TO FLUORESCENT LAMP AND BALLAST ILLUMINATION IS AMENDED TO READ:

"INTERNAL ILLUMINATION OF SIGN SHALL BE DONE THROUGH ILLUMICOM LED RETROFIT KIT OR NATIONAL SIGNAL MATRIX LED RETROFIT KIT. THE LED LIGHT ENGINE LIFE SHALL BE RATED FOR A MINIMUM OF 50,000 HOURS, WITH SPARE PERIOD OF FIVE YEARS FROM DATE OF PURCHASE. THE EQUIPMENT SHALL HAVE A DATE OF MANUFACTURE AS PART OF THE SERIAL NUMBER. ALL UNITS PROVIDED SHALL HAVE A MANUFACTURE DATE CODE OF NO MORE THAN 6 MONTHS FROM DATE OF DELIVERY. THE LED LIGHT SHALL BE UNIFORMLY DISTRIBUTED ACROSS THE SIGN PANELS. STRIPING OR PIXILATION OF SIGN PANEL SHALL NOT BE VISIBLE. ENERGY SAVINGS SHALL BE AT A MINIMUM OF 60% OF STANDARD T12 FLUORESCENT LIGHTING TYPICALLY FOUND ON IISNS."

- 2) PANELS SHALL BE FOR EITHER 72" OR 96" HOUSING AS REQUIRED.
- 3) SIGN FACE SHALL BE CONSTRUCTED PER 2010 STATE STANDARD SPECIFICATIONS SECTION 86-6.09.
- 4) WHITE LETTERING ON GREEN BACKGROUND. NO BORDER. LETTER AND NUMBER SIZES AS SPECIFIED ABOVE.
- 5) ILLUMINATED STREET NAME SIGNS SHALL NOT DISPLAY A SUFFIX, (I.E.: ST., DR., CIR., ETC.) EXCEPT AS DIRECTED BY THE ENGINEER OR AS NOTED ON THE PLANS.
- 6) HWY. SERIES "E" LETTERING PREFERRED EXCEPT SERIES "C" OR "D" MAY BE USED IF NEEDED. LETTER SPACING MAY BE ADJUSTED TO AVOID LOWER CASE LETTERING CONFLICTS.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

INTERNALLY
ILLUMINATED
STREET NAME SIGNS

STD NO.

906

REGIONAL

LENGTH: 36", 42", OR 48"

(FOR ARTERIAL & SECONDARY STREETS)



RESIDENTIAL

LENGTH: 36", 42", OR 48"

(FOR RESIDENTIAL, COLLECTOR & LOCAL STREETS)



SPECIFICATIONS

DESIGN APPROVAL

Street name sign layout requires Public Works approval prior to fabrication.

BASE METAL

The base metal substrate shall be sheet aluminum alloy Zumar Model 812Ex25Q (or approved equal).

BLADE SIZE

There shall be two sizes of street name signs. Regional and Residential. Regional shall be 12 inches and residential shall be 10 inches. The horizontal length shall be determined by the legend.

REFLECTIVE SHEETING:

Sign shall have 3M Diamond Grade™ DG³ reflective sheeting overlay and 3M 1160A Anti Graffiti film overlay.

PROCESSING:

Colors shall be silver copy on green background with 3/8 inch silver border. The sign shall be reversed screened and coated with a clear finish. The Residential sign shall have a 5 inch Palm Desert City Seal logo. The logo shall be reversed silk screened.

MESSAGE LENGTH:

The length of the message will be dependent upon the name length plus its suffix and block numbers, but shall be in multiples of six inches. Regional signs shall have an overall length of not less than 36 inches and not over 54 inches. Residential signs shall have an overall length of not less than 36 inches and not over 48 inches.

LETTER SIZE AND SERIES:

Street name legend and suffix shall be upper and lower case lettering in standard lengths and shall be fabricated using standard FWHA "B" or "C" Series letters for all copy.

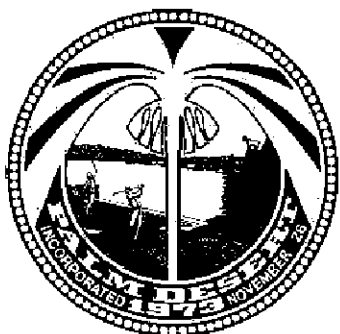
Regional sign shall have 8 inch upper case and 8 inch lower case legend with 3 inch suffix and block number. Residential sign shall 8 inch upper case and 4½ inch lower case legend. The suffix shall be 2 inches and the block number shall be 2½ inches.

MOUNTING HOLES:

Two 3/8 inch diameter holes shall be drilled on both the top and bottom of the sign to match the metal substance above.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

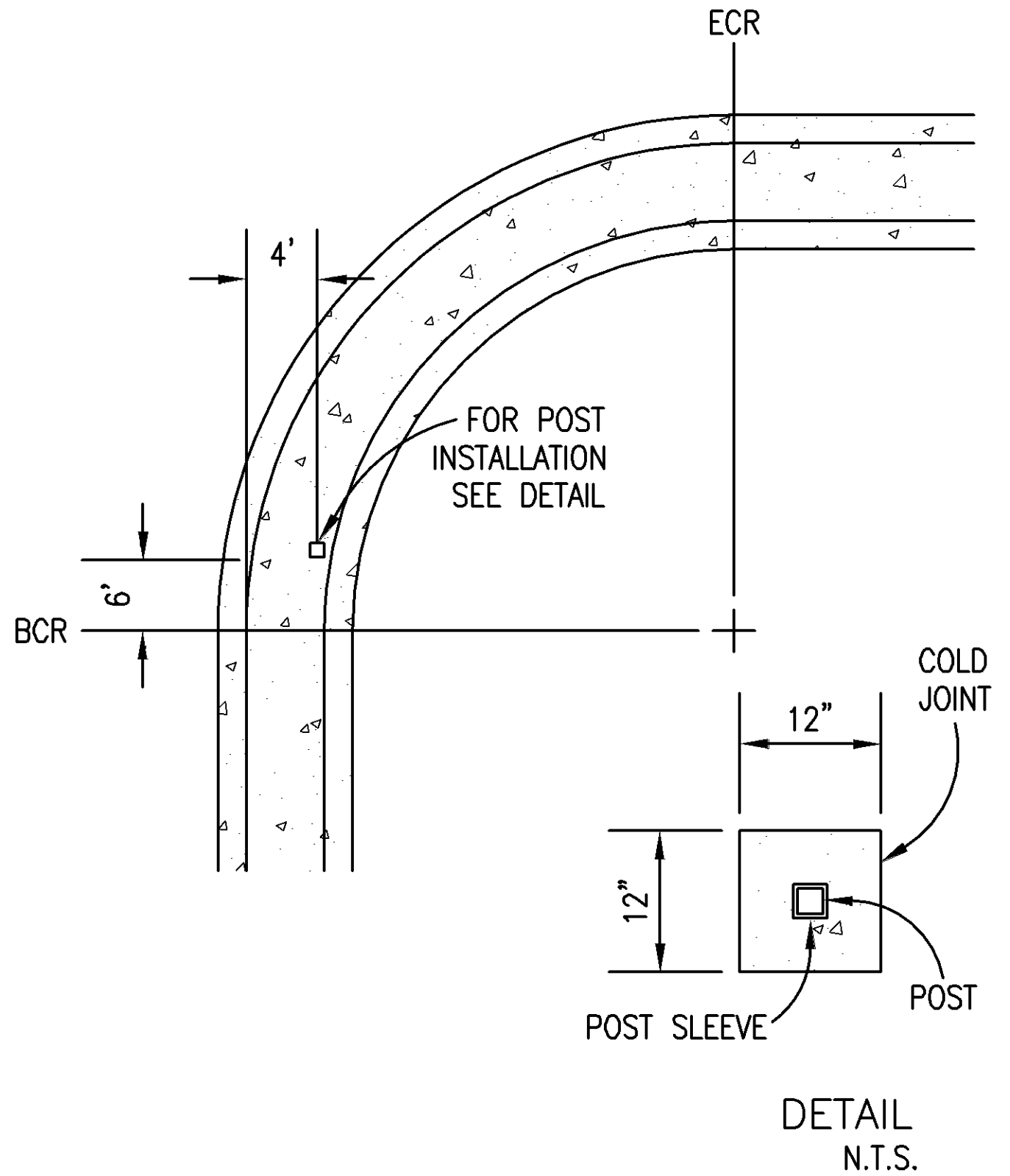
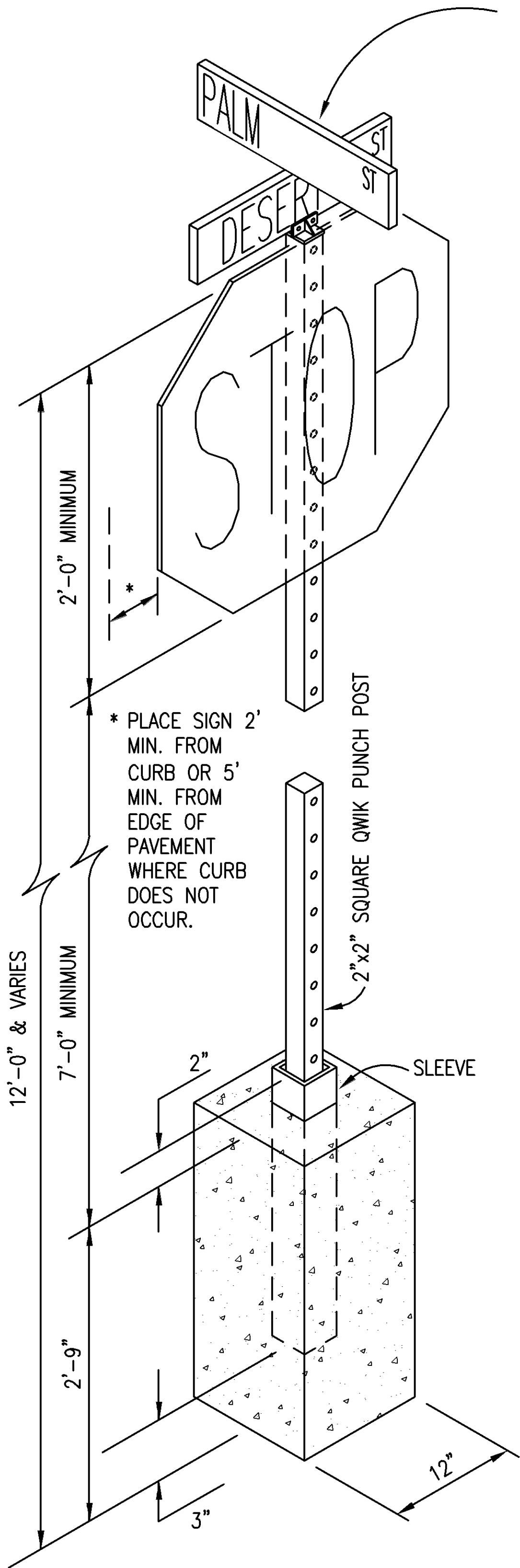
DEPARTMENT OF PUBLIC WORKS

STD NO.

STREET NAME
SIGNS

907

DOUBLE FACED SIGNS FOR EACH STREET NAME PER C.P.D. STD. 907.
VANDAL-PROOF HARDWARE FOR FASTENING AS APPROVED BY THE CITY ENGINEER.



TYPICAL PLACEMENT

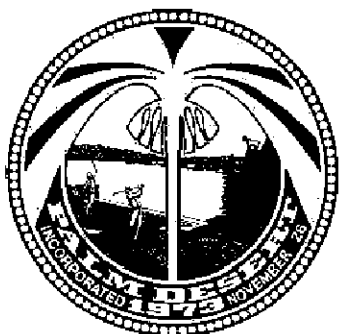
NOTES:

1. STREETS WIDER THAN 64 FEET (SECONDARY AND ABOVE), SHALL HAVE NEW STREET NAMES INSTALLED ON THE NEAR SIDE CORNERS FOR EACH DIRECTION OF TRAVEL.
2. ALL SIGN POSTS ARE TO BE 2" TELESPAR SQUARE TUBE WITH ANCHOR BREAKAWAY ASSEMBLY.
3. THE RETROREFLECTIVITY FOR ALL REGULATORY SIGNS SHALL MEET ASTM STANDARD D 4956 TYPE IX (3M CO. DIAMOND GRADE OR APPROVED EQUAL) WITH ANTI-GRAFFITI SHEETING.

NOTE:
ALL SIGN POSTS TO BE INSTALLED IN
560-C-2800 CONCRETE

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

STREET NAME SIGN
INSTALLATION

908

NONE: POST INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. 908

* SIGNS HEIGHTS

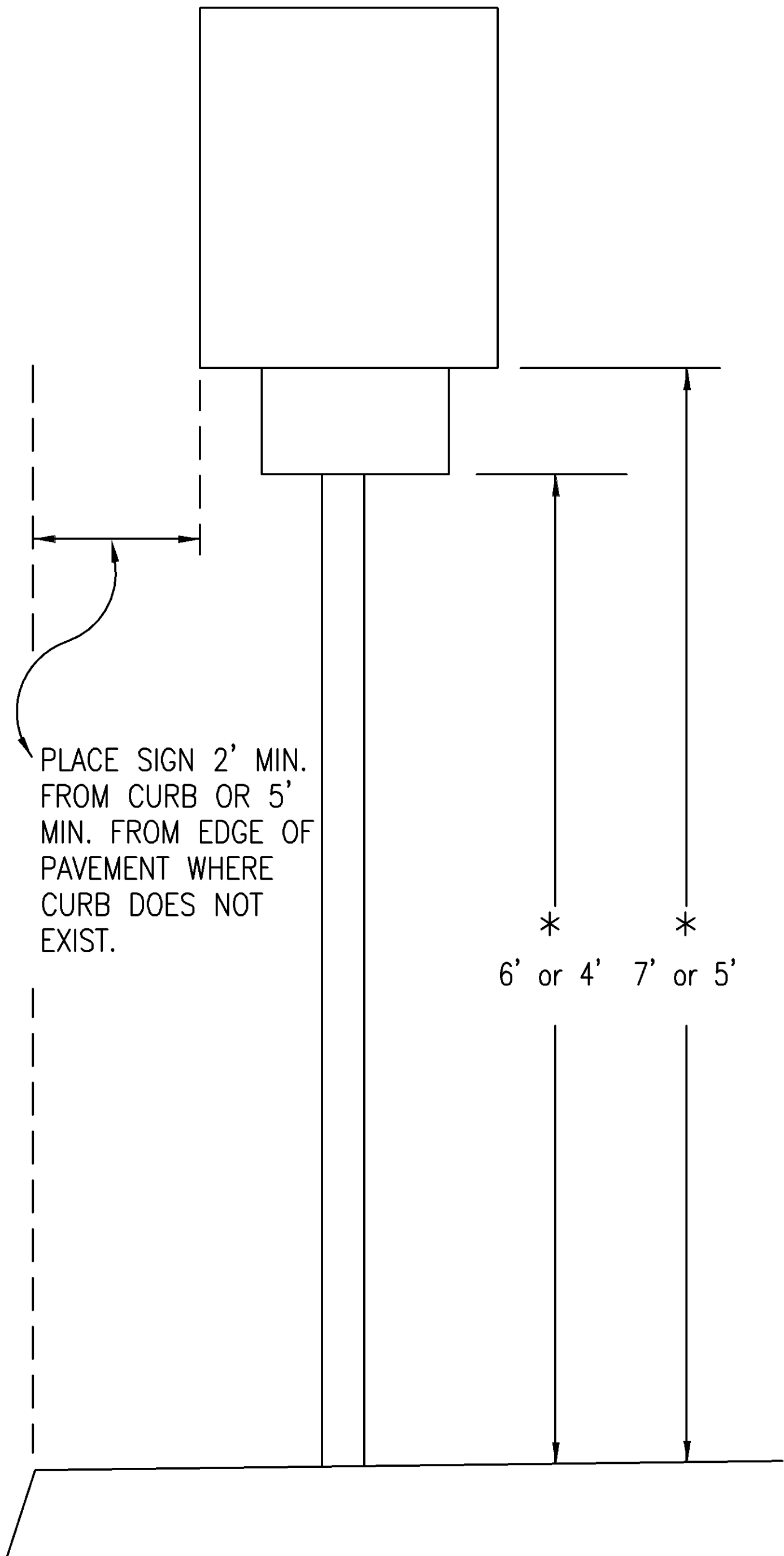
Warning Signs

shall be mounted at a height of at least 5 feet, measured from the bottom of the sign to the near edge of the pavement. In business, commercial and residential areas where parking and/or pedestrian movement is likely to occur or where there are other obstructions to view, the clearance to the bottom of the sign shall be at least 7 feet. The height to the bottom of a secondary sign mounted below another sign may be 1 foot less than the appropriate height specified above.

Regulatory Sign

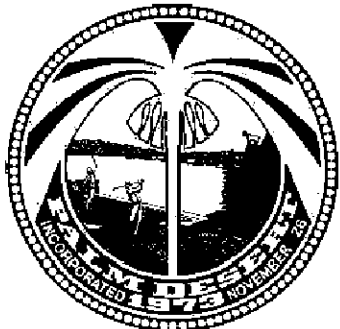
The bottom of the sign shall be 5 feet above the surface of the pavement on conventional highways. In urban areas and where parking is prevalent, the bottom of the sign shall be placed at least 7 feet above the top of the curb.

Any Modifications must be per the approval of the City Engineer.



N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

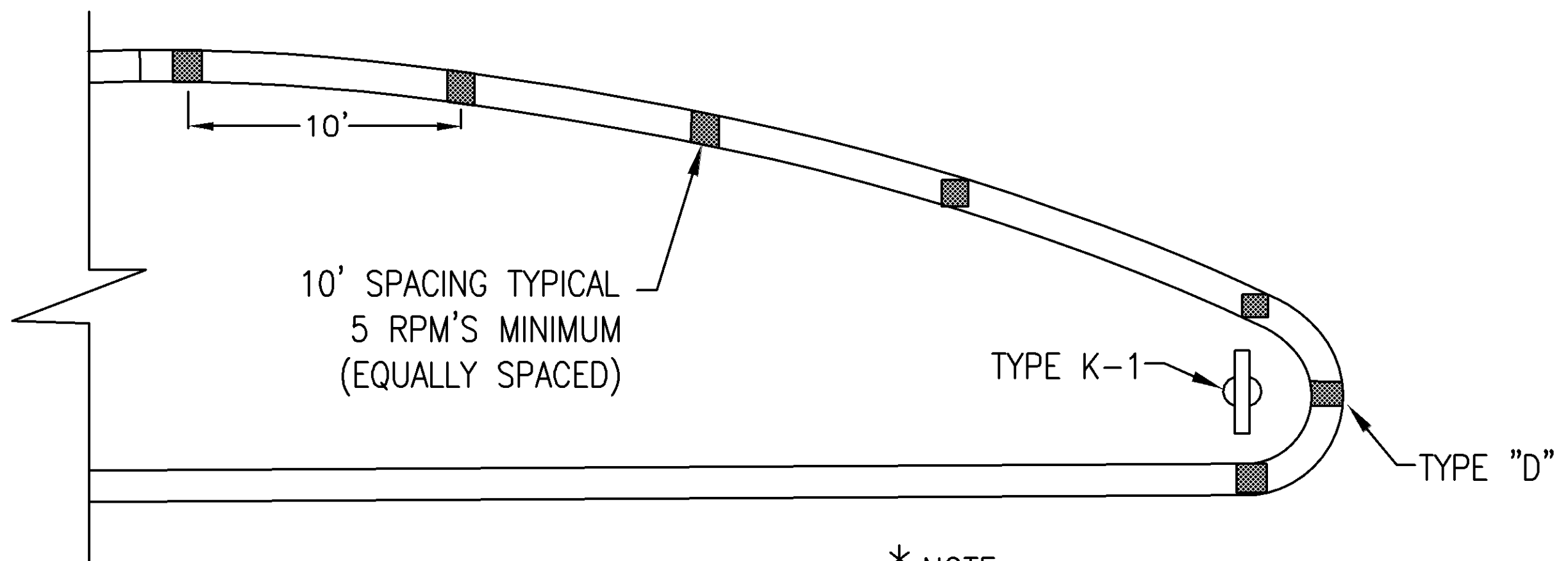
DATE

DEPARTMENT OF PUBLIC WORKS

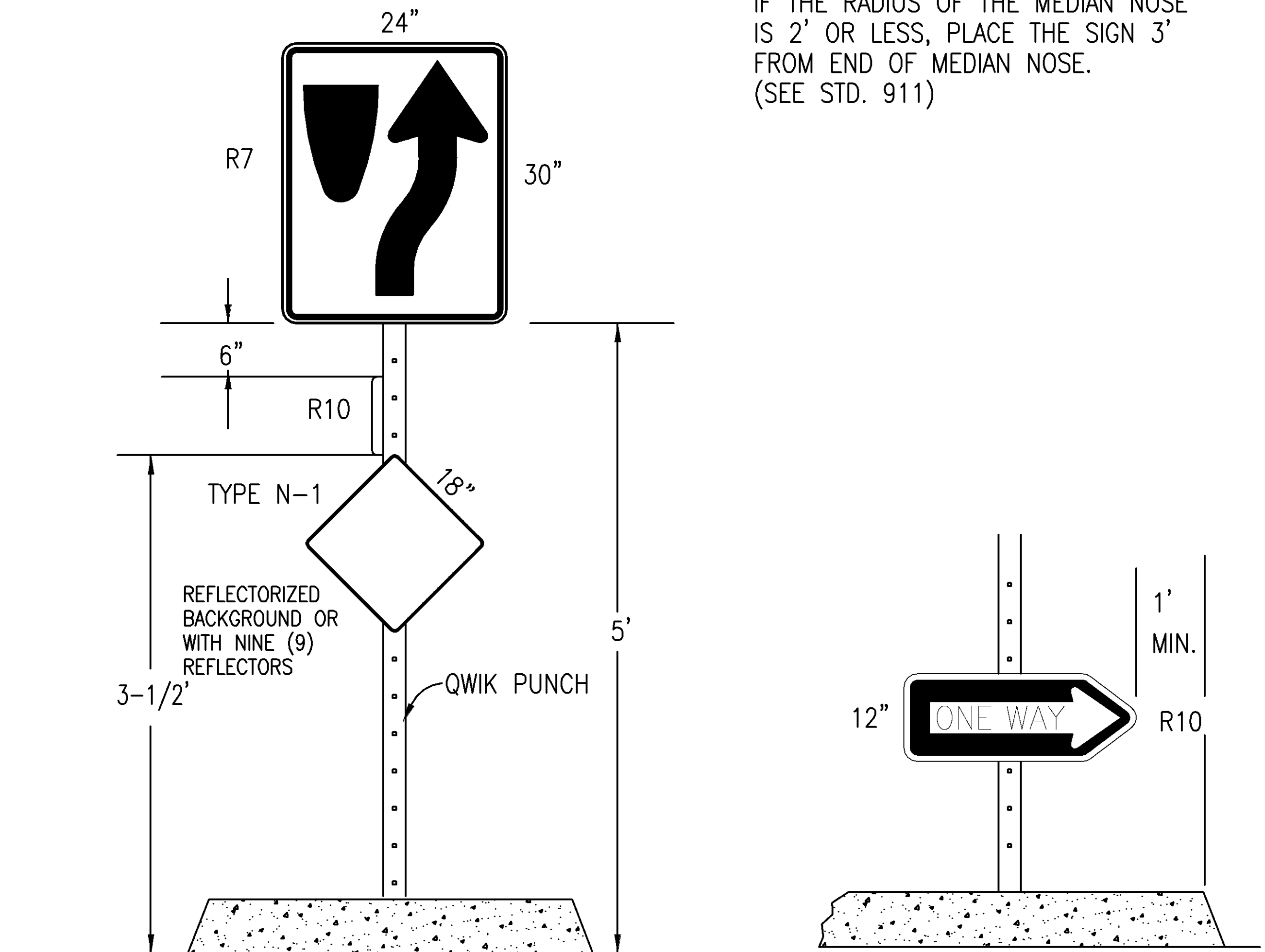
TYPICAL SIGN POST

STD NO.

909



* NOTE:
IF THE RADIUS OF THE MEDIAN NOSE
IS 2' OR LESS, PLACE THE SIGN 3'
FROM END OF MEDIAN NOSE.
(SEE STD. 911)



NOTE:

POST INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. 908.
RPM'S SHALL HAVE A GLASS REFLECTING FACE WITH A MINIMUM AREA
OF 3.25 SQUARE METERS.

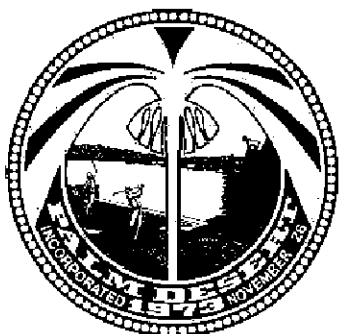
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



CITY ENGINEER

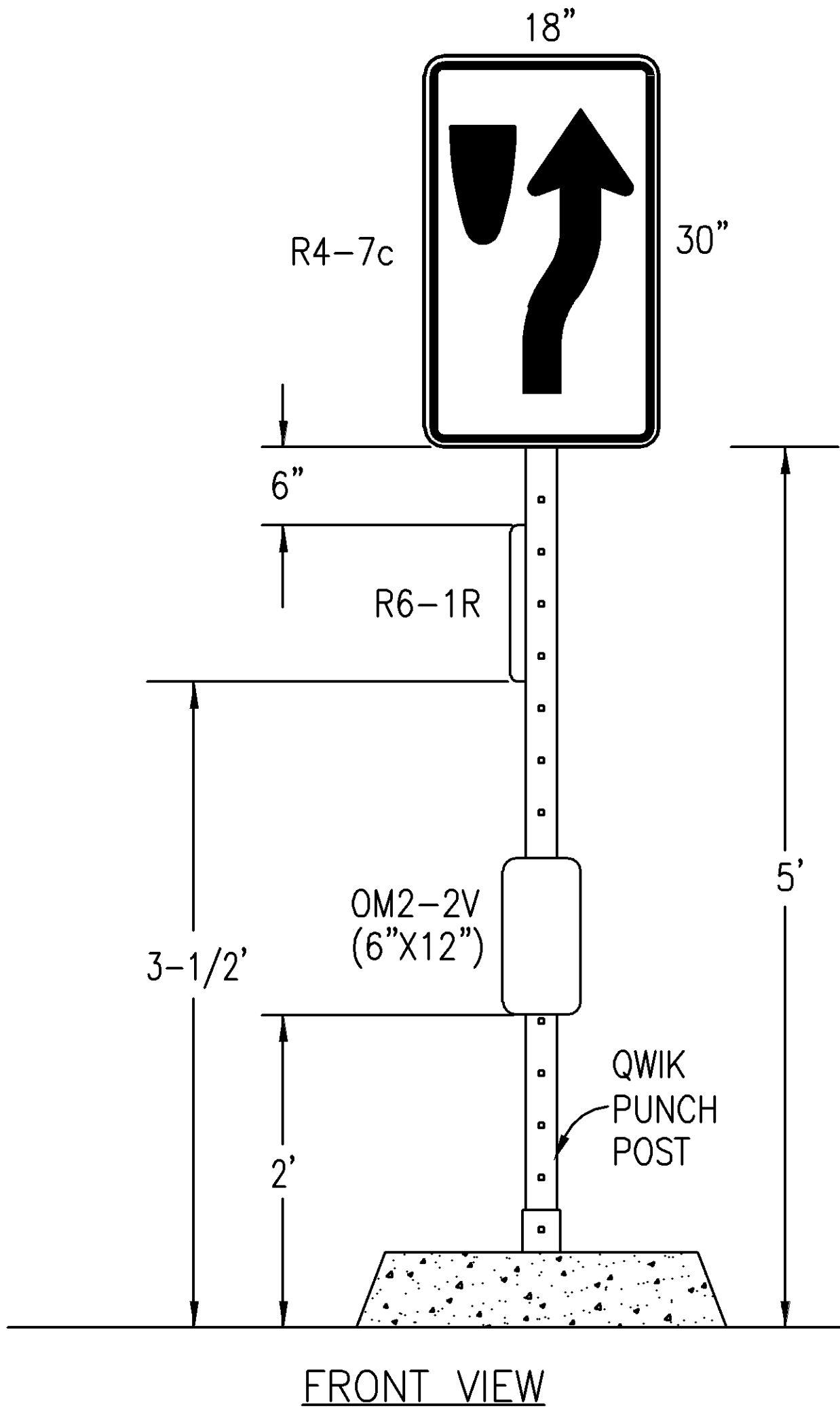
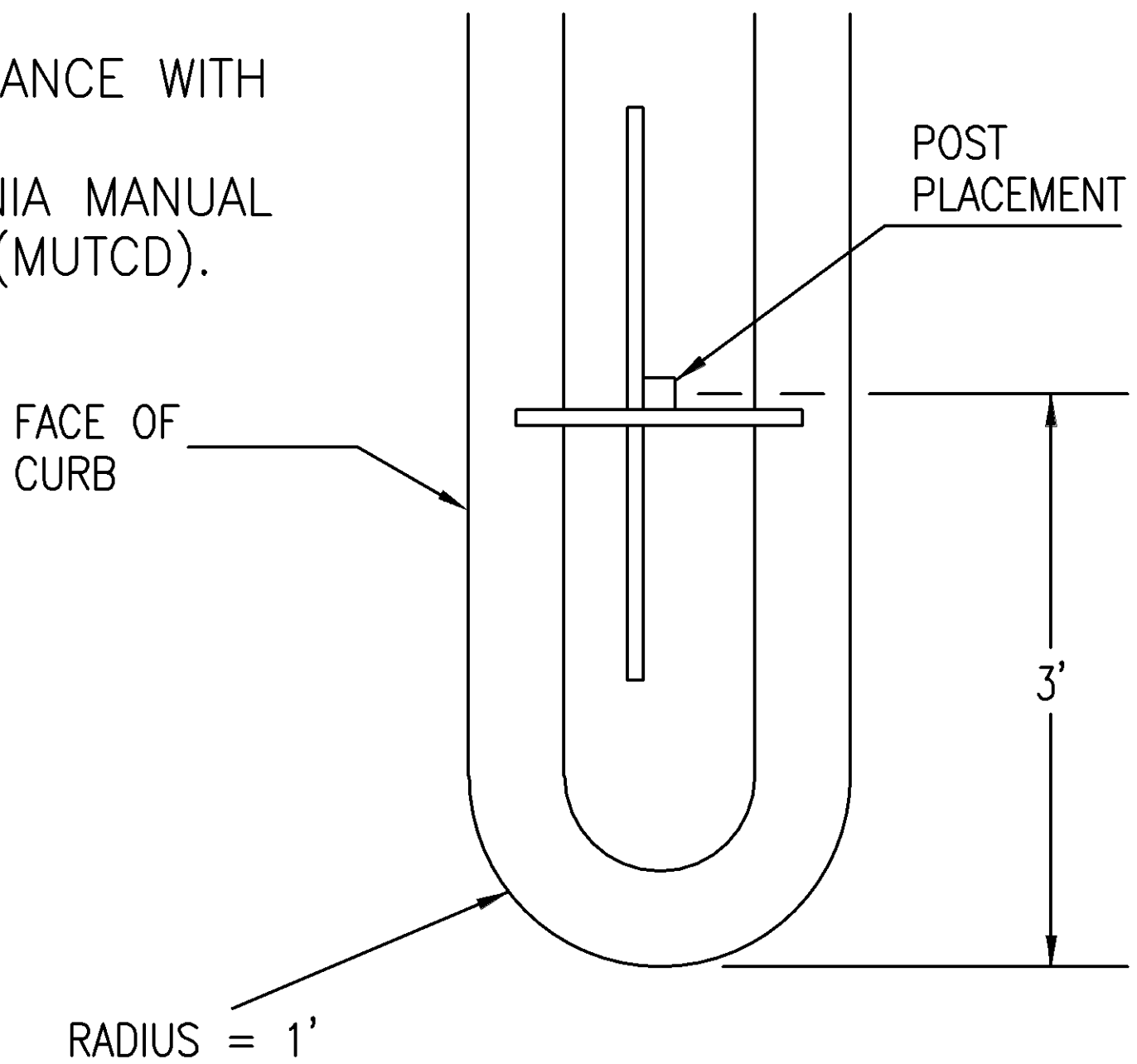
DATE

TYPICAL MEDIAN
NOSE SIGN
INSTALLATION

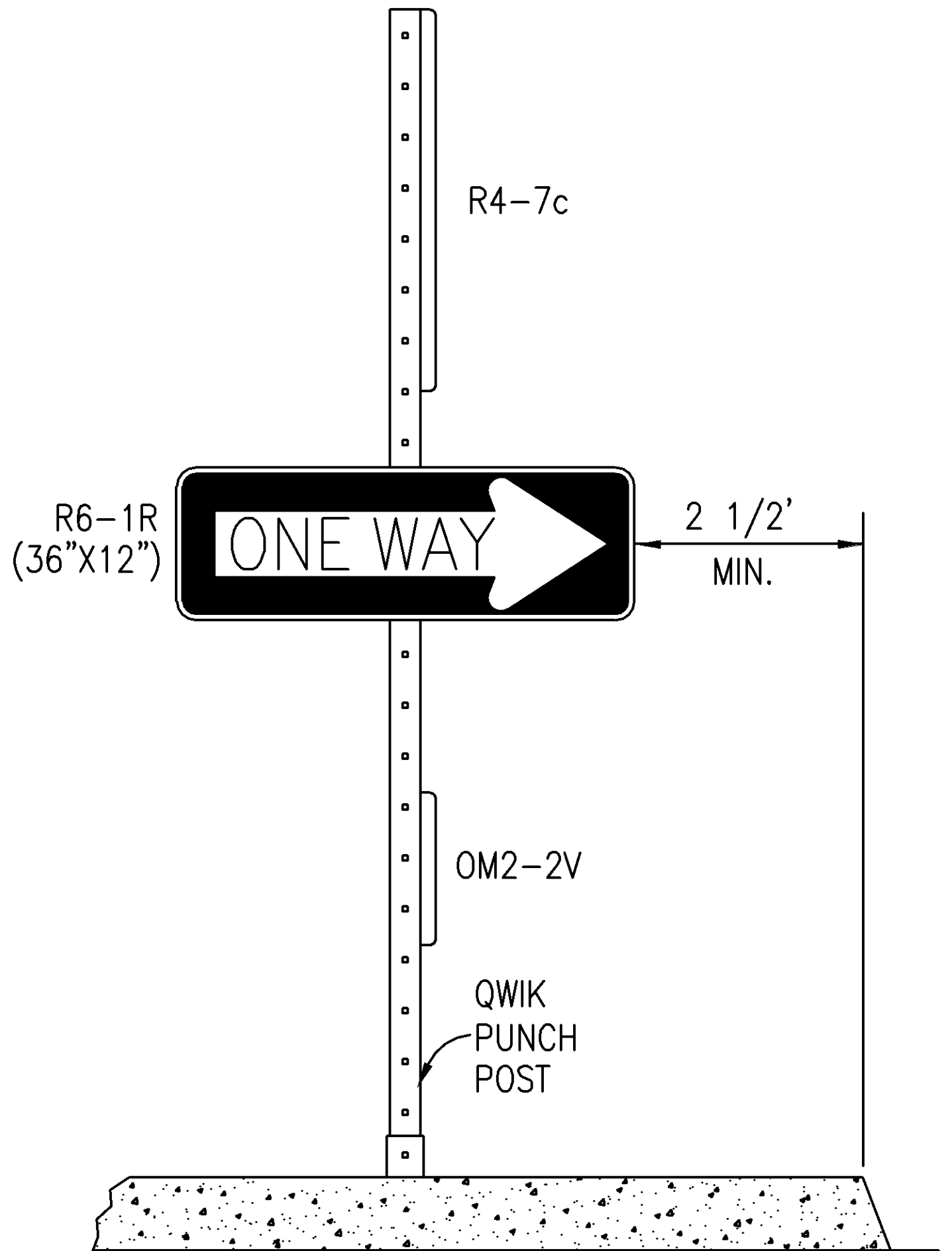
910

NOTE:

POST INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. 908. SIGNS R4-7 & R6-1 PER THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



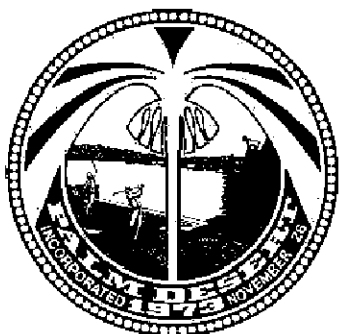
FRONT VIEW



SIDE VIEW

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

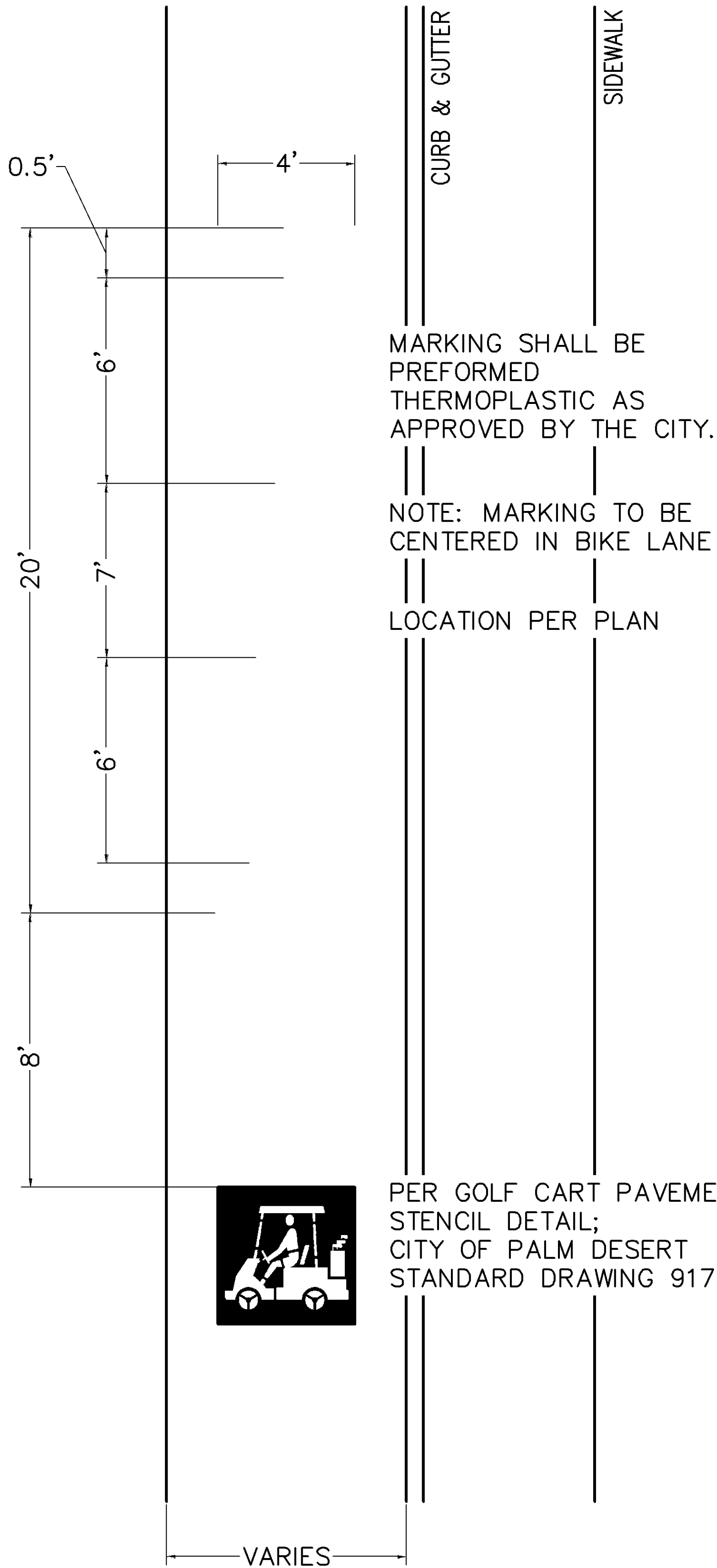
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

TYPICAL MEDIAN NOSE SIGN INSTALLATION (2-FT NOSE)

911



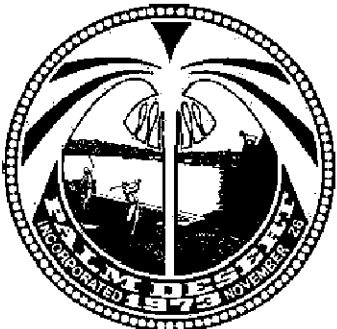
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



CITY ENGINEER

DATE

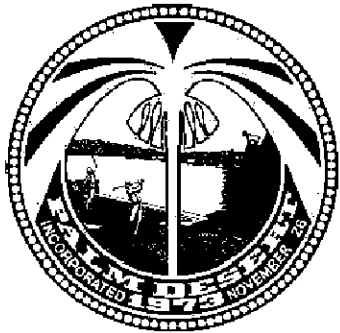
BICYCLE/GOLF CART
LANE SIGNS &
PAVEMENT MARKINGS

912



1' = 1"

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

GOLF CART SYMBOL
FOR SIGNAGE

STD NO.

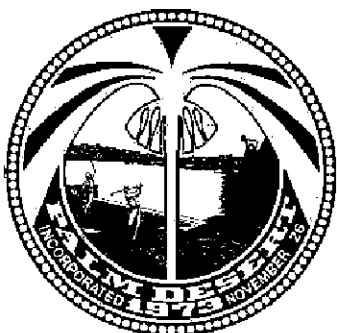
913



COLORS
 BORDER AND LEGEND - BLACK (Non-Reflective)
 BACKGROUND - WHITE (Reflective)

1" = 1'

CITY OF PALM DESERT



APPROVED BY:

 CITY ENGINEER

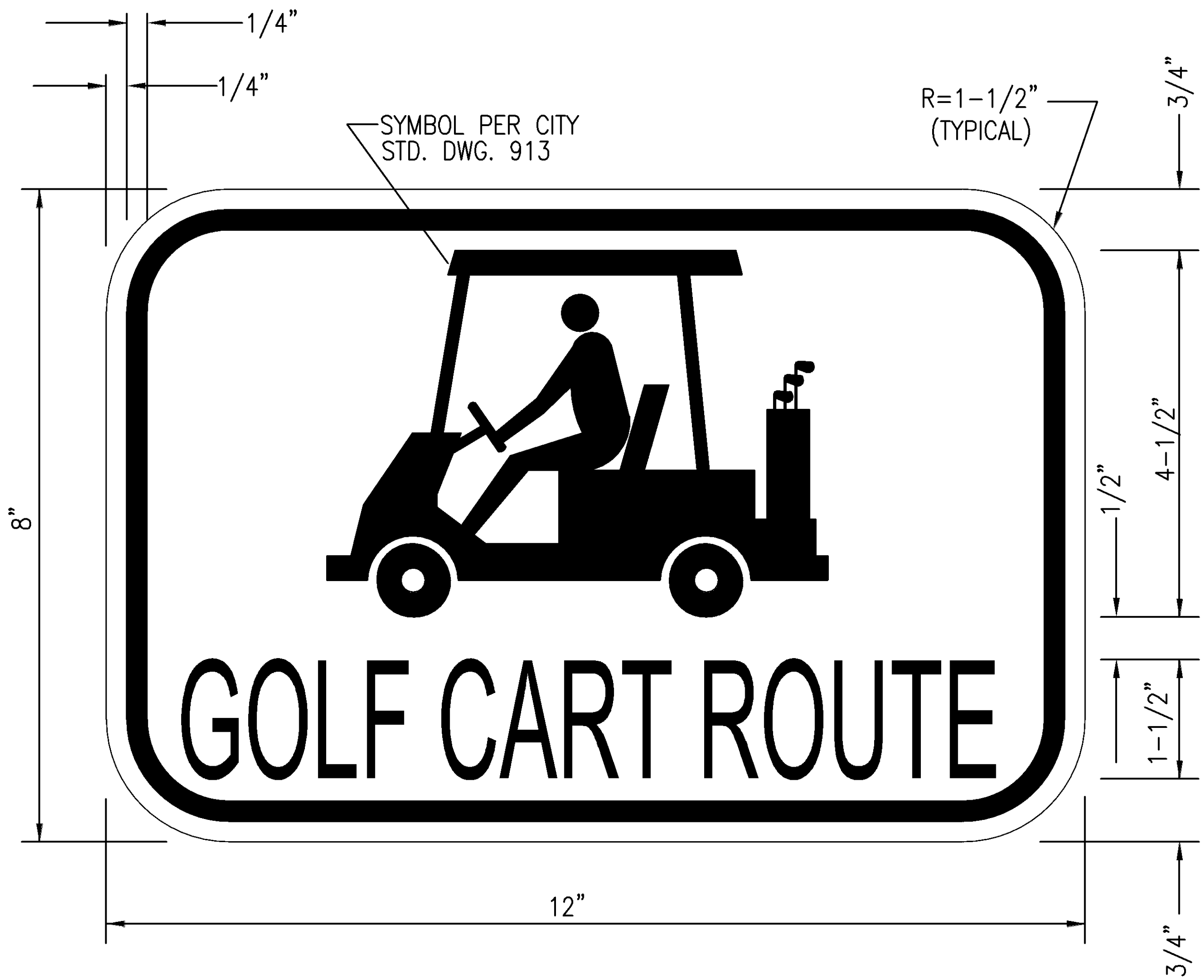
 DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

GOLF CART
 LANE SIGN

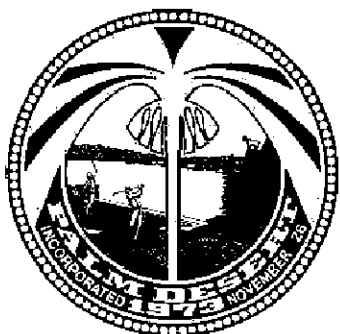
914



COLORS
 BORDER AND LEGEND - WHITE (Non-Reflective)
 BACKGROUND - GREEN (Reflective)

1" = 1'

CITY OF PALM DESERT



APPROVED BY:

 CITY ENGINEER

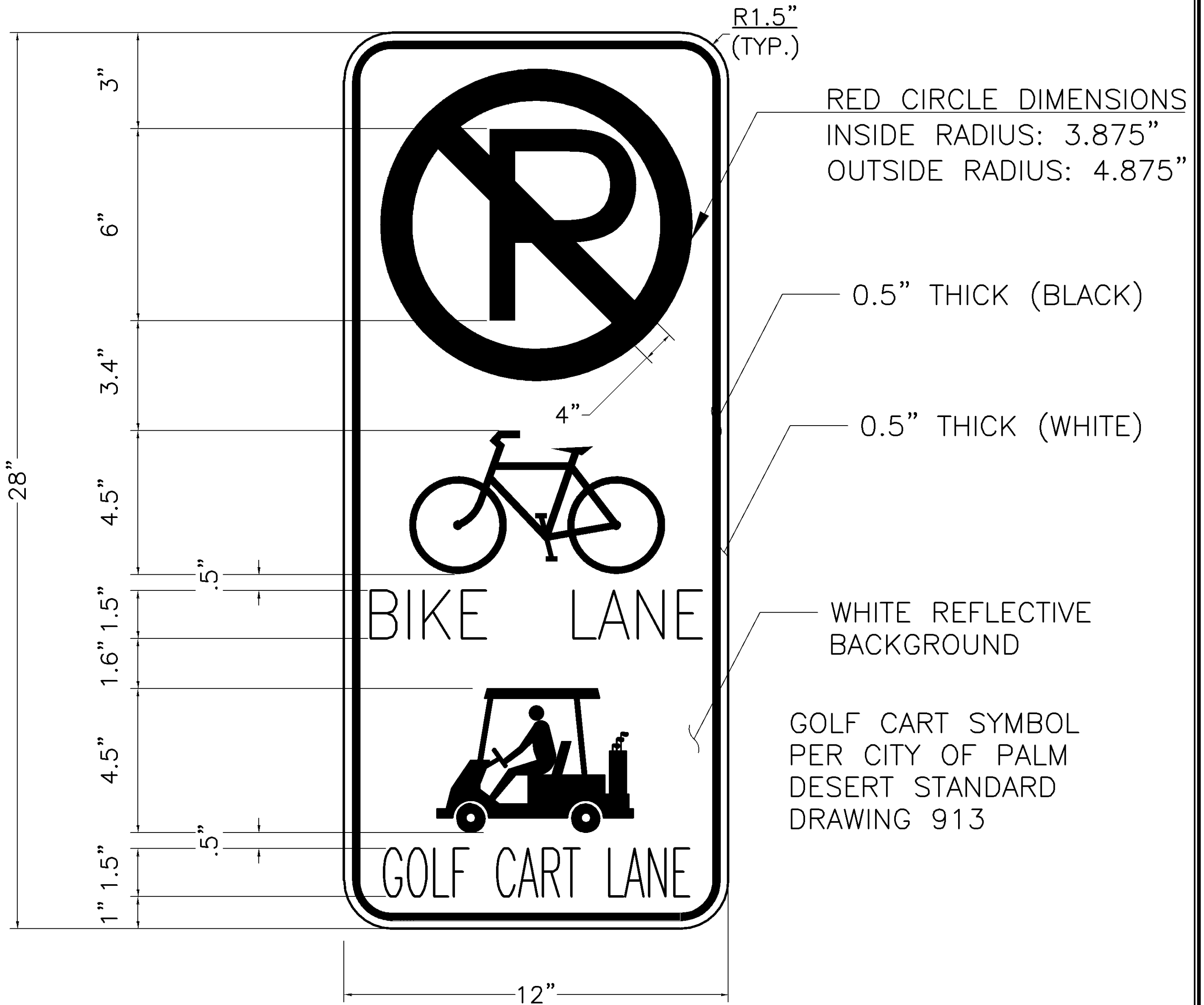
 DATE

DEPARTMENT OF PUBLIC WORKS

GOLF CART
 ROUTE SIGN

STD NO.

915



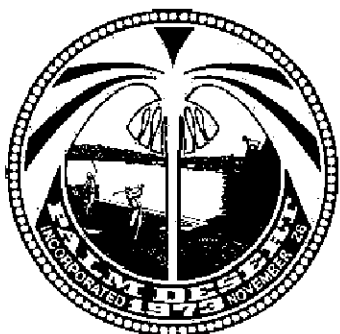
MID-BLOCK BIKE/GOLF CART LANE SIGN

NOTES:

1. R81A(CA) "BEGIN" SIGN SHALL BE INSTALLED BELOW MID-BLOCK BIKE/GOLF CART LANE SIGN AT THE START OF EVERY BIKE LANE.
2. "MID-BLOCK" SIGN SHALL BE INSTALLED EVERY 500 LINEAR FEET, UNLESS OTHERWISE SPECIFIED BY THE CITY.
3. R81B(CA) "END" SIGN SHALL BE INSTALLED BELOW MID-BLOCK BIKE/GOLF CART LANE SIGN AT THE END OF EVERY BIKE LANE.
4. FOR BICYCLE FACILITIES SPECIFIC SIGNAGE, REFERENCE THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

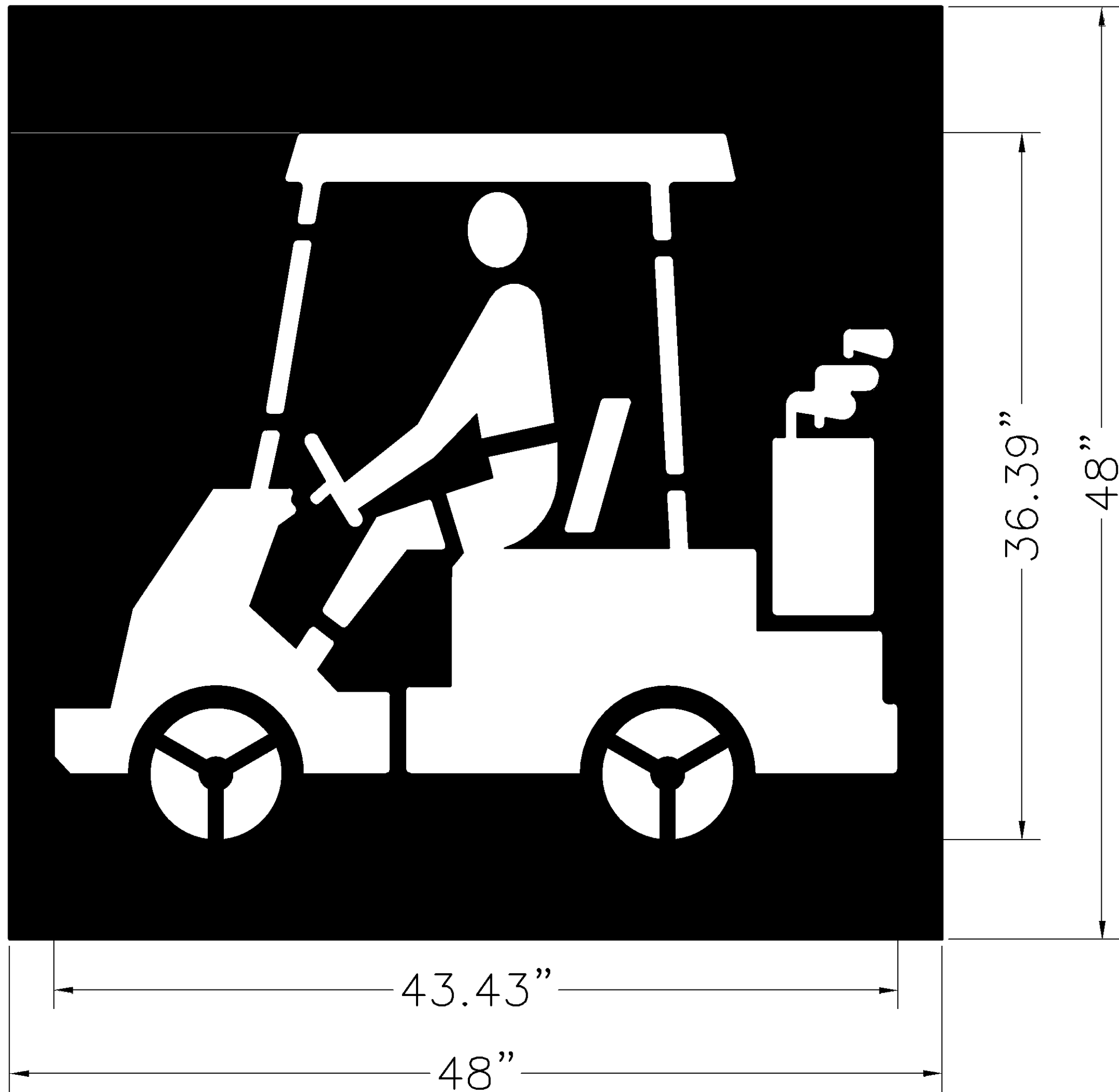
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DEPARTMENT OF PUBLIC WORKS

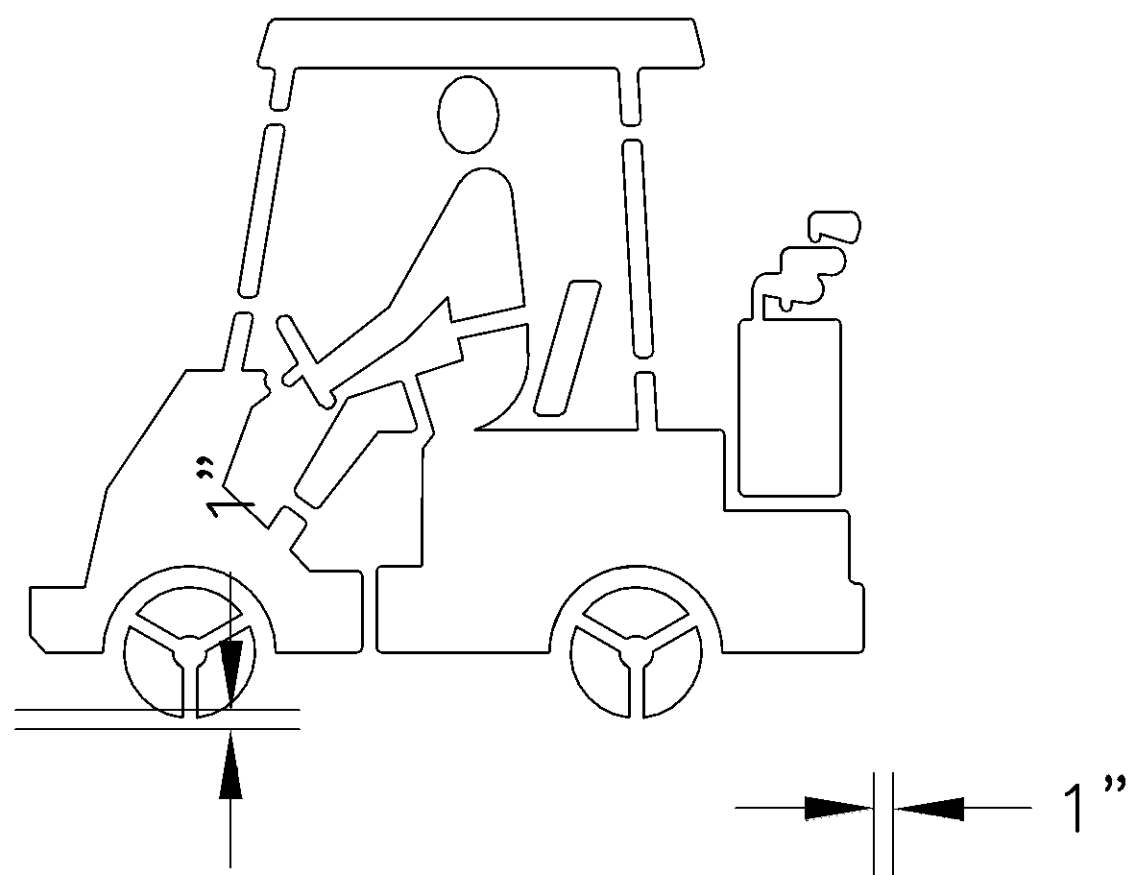
STD NO.

BICYCLE/GOLF CART
LANE COMBINATION
SIGN

916



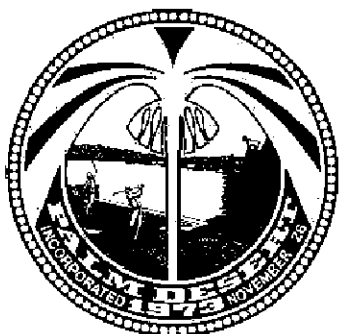
NOTE: MARKING SHALL BE PERFORMED THERMOPLASTIC AS APPROVED BY THE CITY.



GOLF CART LEGEND DIMENSIONS
(SIZE REFERENCE CHART)
SCALE: 1" = 20'

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

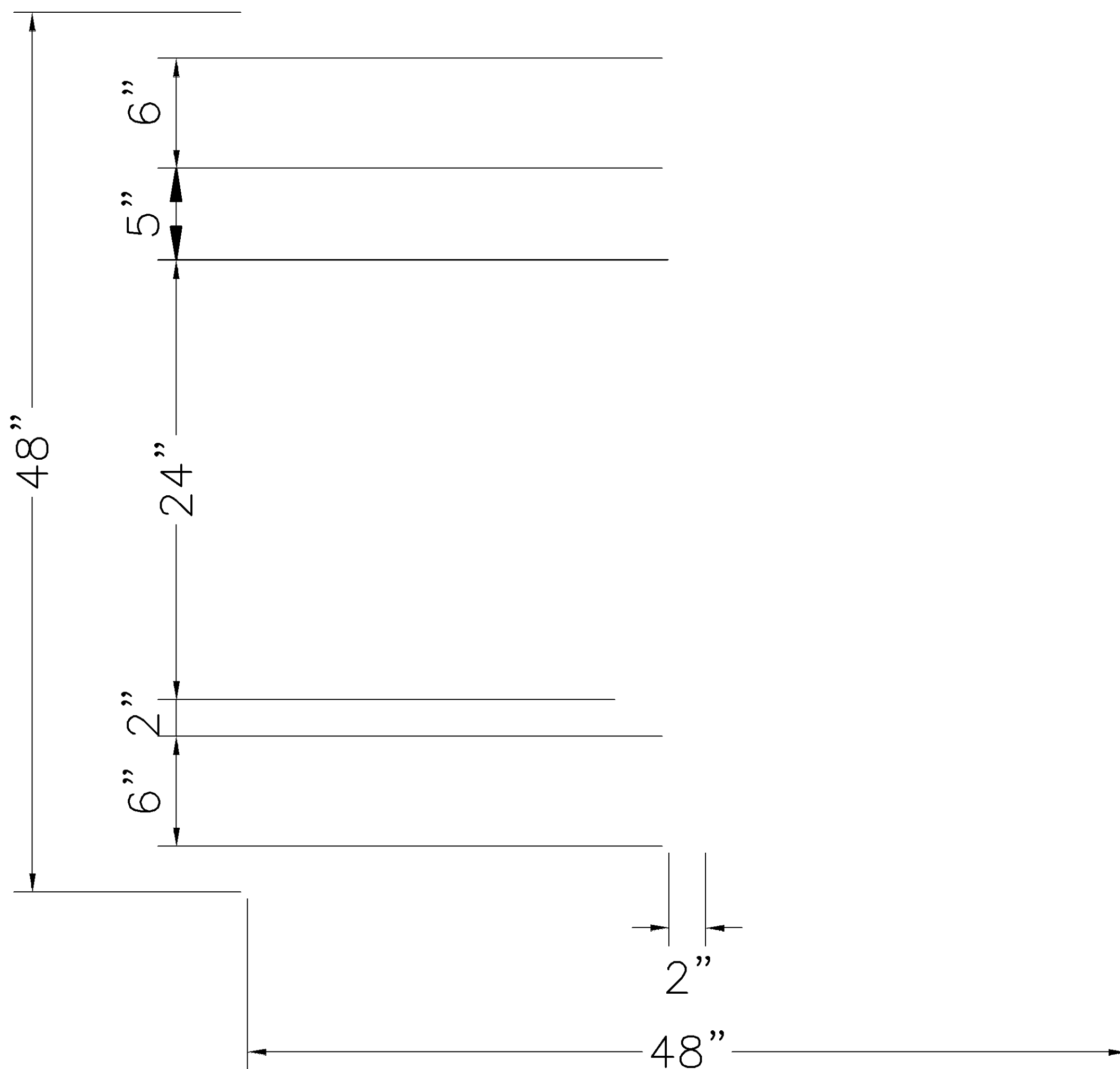
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

GOLF CART
PAVEMENT LEGEND

917

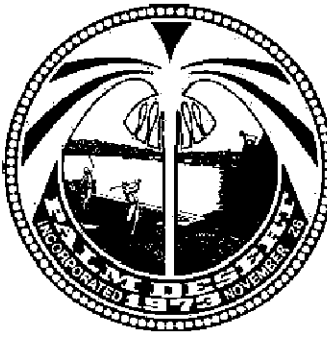


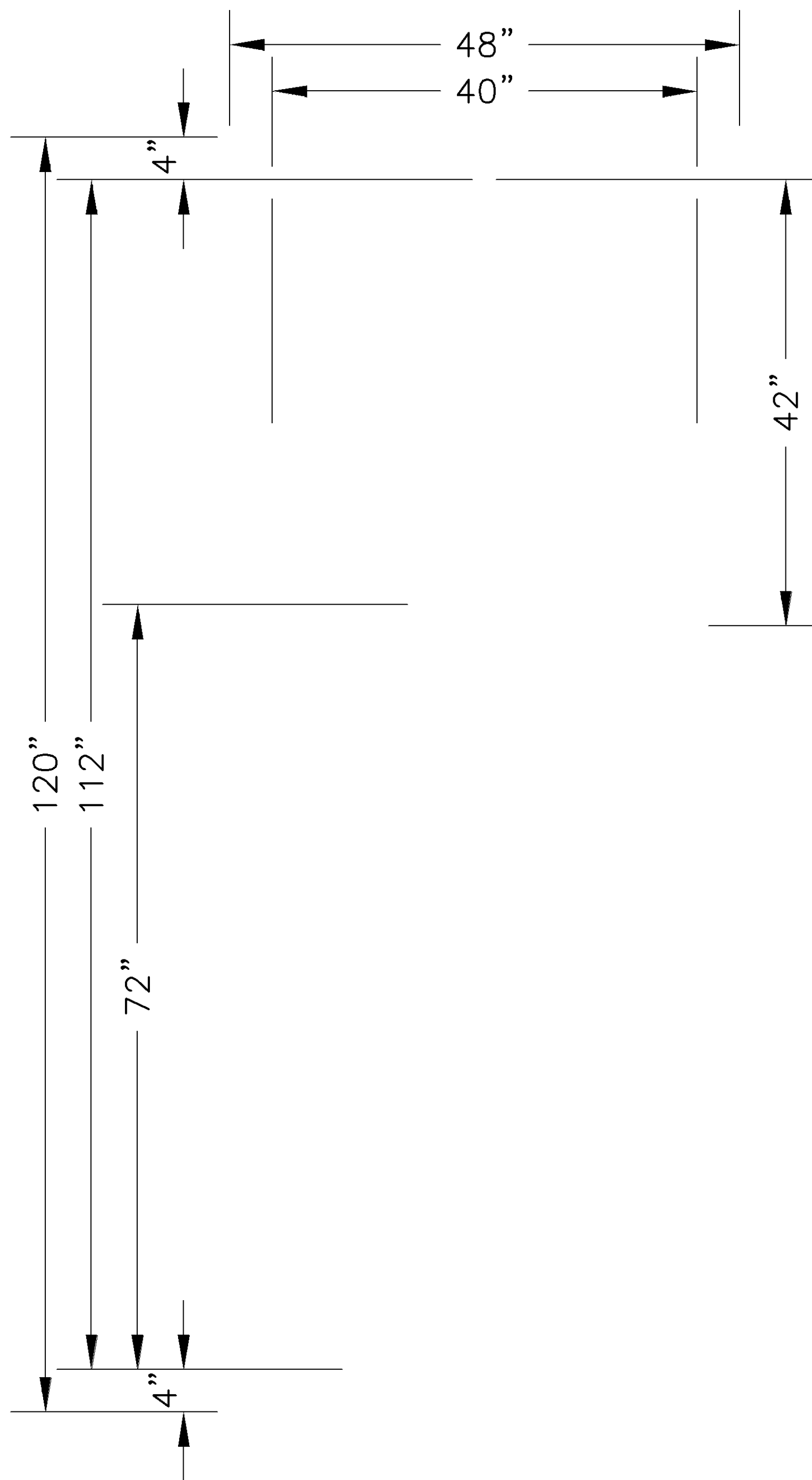
**BICYCLE DETECTOR
PAVEMENT MARKING**

NOTES:

1. USE GREEN COLORED PAVEMENT MARKINGS. SEE CVAG ACTIVE TRANSPORTATION DESIGN GUIDELINES AS A GUIDE.
2. SYMBOL SHALL BE PLACED OVER BICYCLE DETECTION LOOPS IN PAVEMENT AT SIGNALIZED INTERSECTIONS TO INDICATE THE OPTIMUM POSITION FOR A BICYCLE TO ACTIVATE THE SIGNAL AS DIRECTED BY THE CITY.
3. SIGN R10-22 IN THE CALIFORNIA MUTCD (CURRENT EDITION) MAY BE INSTALLED TO SUPPLEMENT THE PAVEMENT MARKINGS AS DIRECTED BY THE CITY.
4. MARKINGS SHALL BE PREFORMED THERMOPLASTIC AS APPROVED BY THE CITY.

N.T.S.

	CITY OF PALM DESERT	APPROVED BY:	DEPARTMENT OF PUBLIC WORKS	STD NO.
		<hr style="width: 100%;"/> CITY ENGINEER	<hr style="width: 100%;"/> DATE	BICYCLE DETECTOR PAVEMENT MARKING



NOTES:

1. USE GREEN COLORED PAVEMENT MARKINGS. SEE CVAG ACTIVE TRANSPORTATION DESIGN GUIDELINES AS A GUIDE.
2. MARKINGS SHALL BE PERFORMED THERMOPLASTIC AS APPROVED BY THE CITY.

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

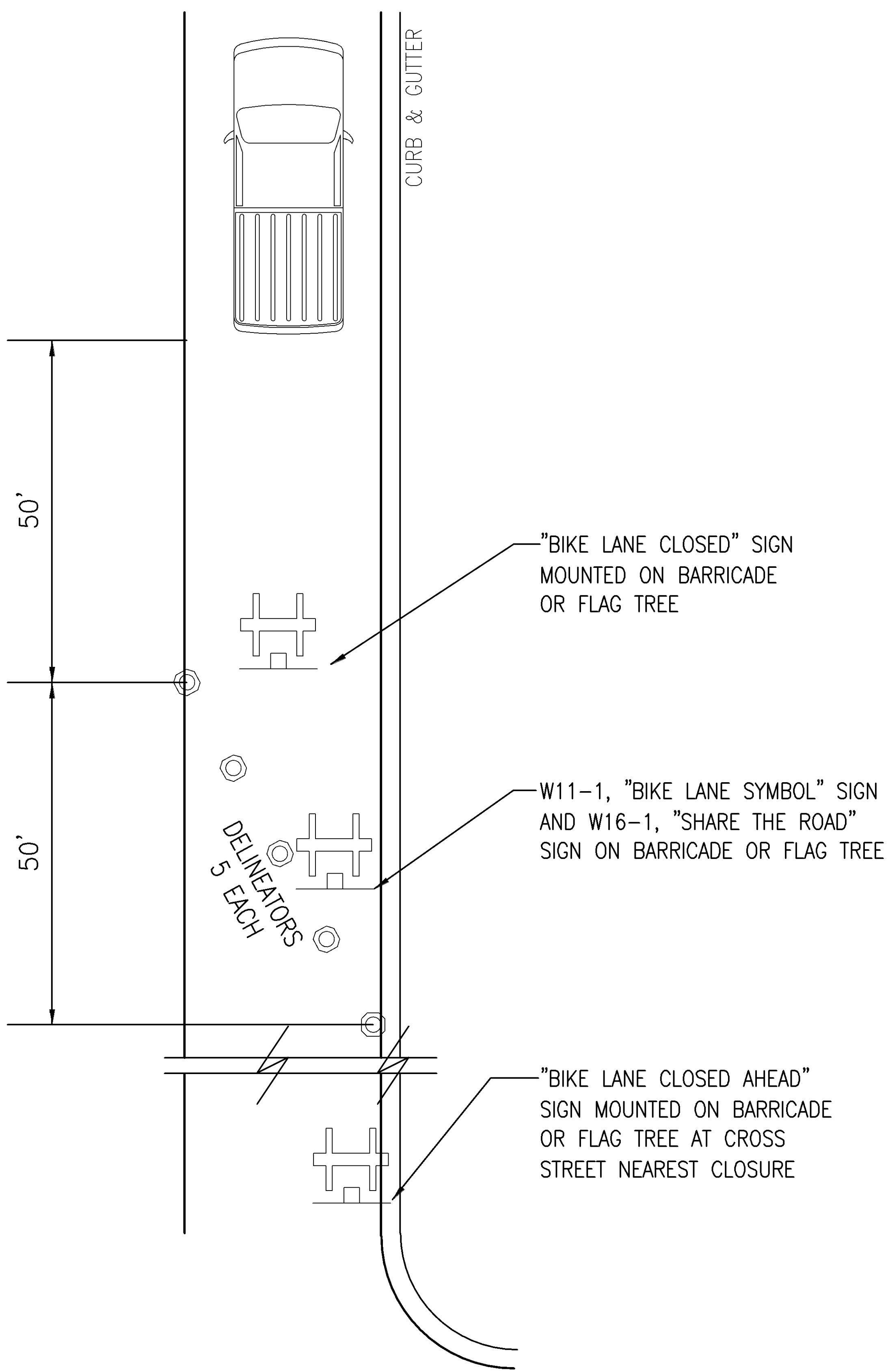
DATE

DEPARTMENT OF PUBLIC WORKS

BICYCLE
PAVEMENT MARKING

STD NO.

919



N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

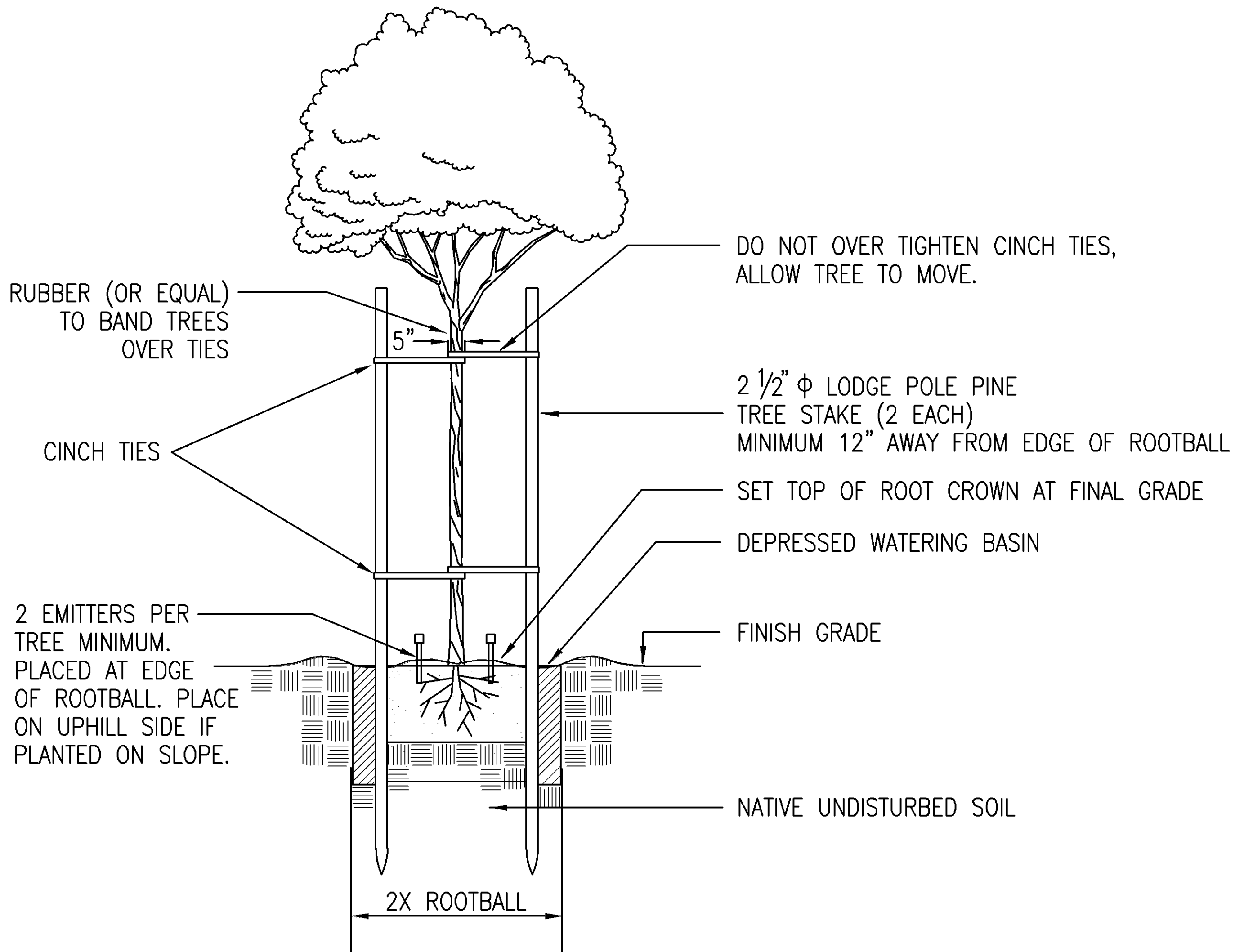
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

BICYCLE/ GOLF CART
LANE CLOSURE

920



NOTES:

FOR PLANT PIT SIZE REFER TO SPECIFICATIONS.

IN TURF AREAS LEAVE A BARE AREA APPROX. 16" AWAY FROM TREE BASE IN ALL DIRECTIONS

APPLY 1" THICK LAYER OF DECOMPOSED GRANITE ON TOP OF ROOT BALL

STAKE SINGLE TRUNK TREES IF NEEDED DO NOT STAKE MULTI TRUNK TREES

FORM 3" BERM TO CREATE TEMPORARY WATERING BASIN (USE WITH BUBBLER IRRIGATION ONLY)

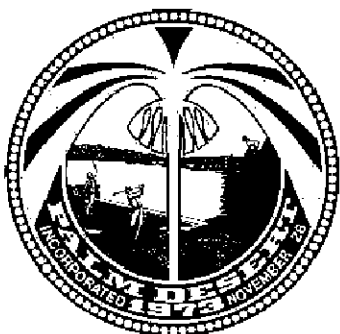
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

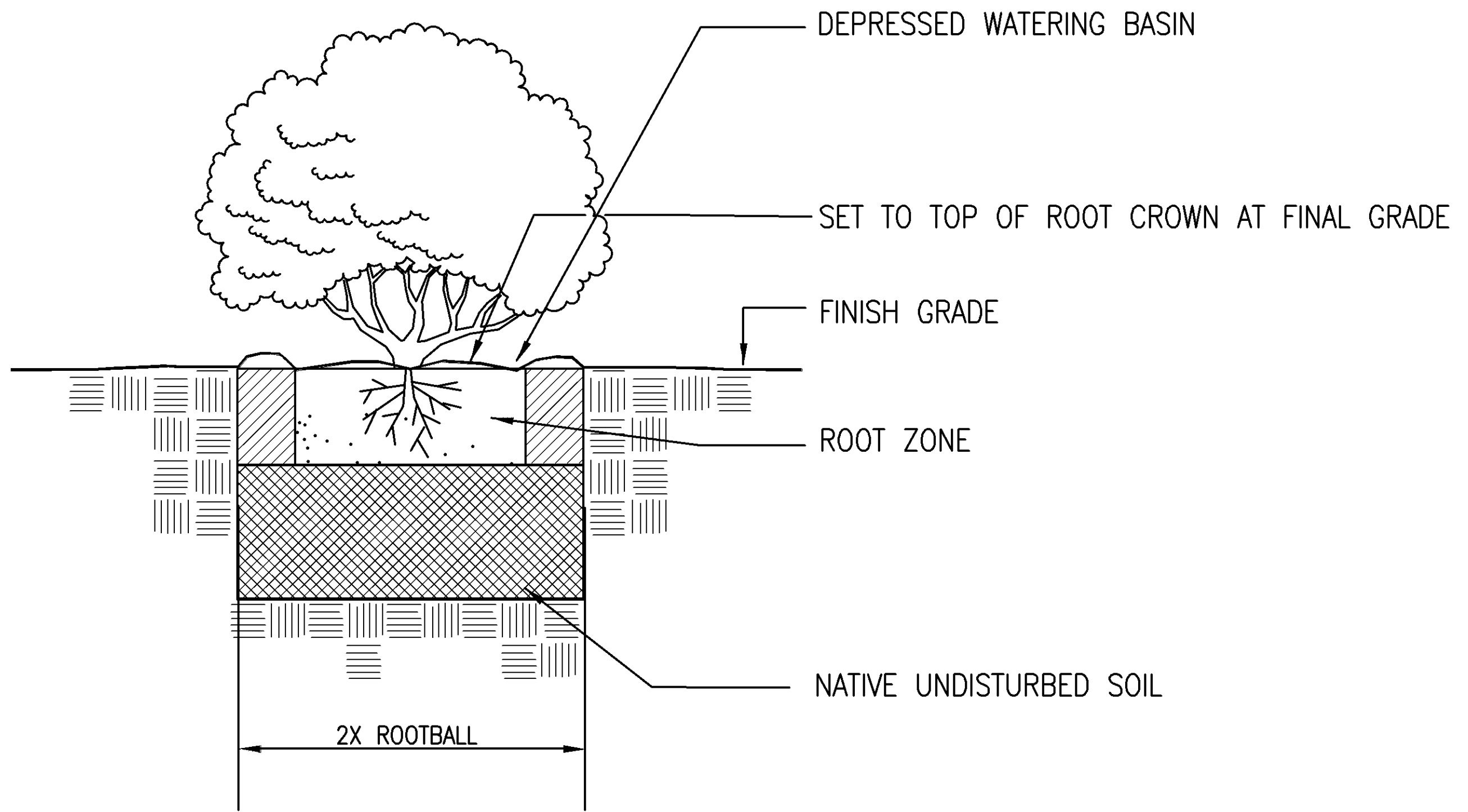


CITY ENGINEER

DATE

TREE INSTALLATION

1000



NOTES:

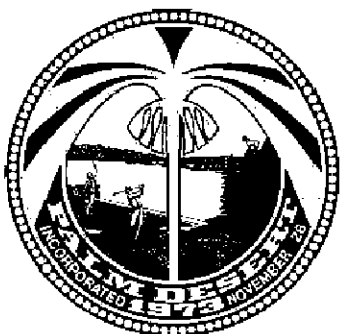
PLANT SHRUBS MINIMUM OF 3' FROM CURB IN MEDIANS, 3' FROM CURB/SIDEWALKS IN PARKWAYS OR AS NOTED ON PLANS

APPLY 1" THICK LAYER OF DECOMPOSED GRANITE ON TOP OF ROOT BALL

FORM 3" BERM TO CREATE TEMPORARY WATERING BASIN (USE WITH ONE BUBBLER EMITTER MINIMUM IRRIGATION ONLY)

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

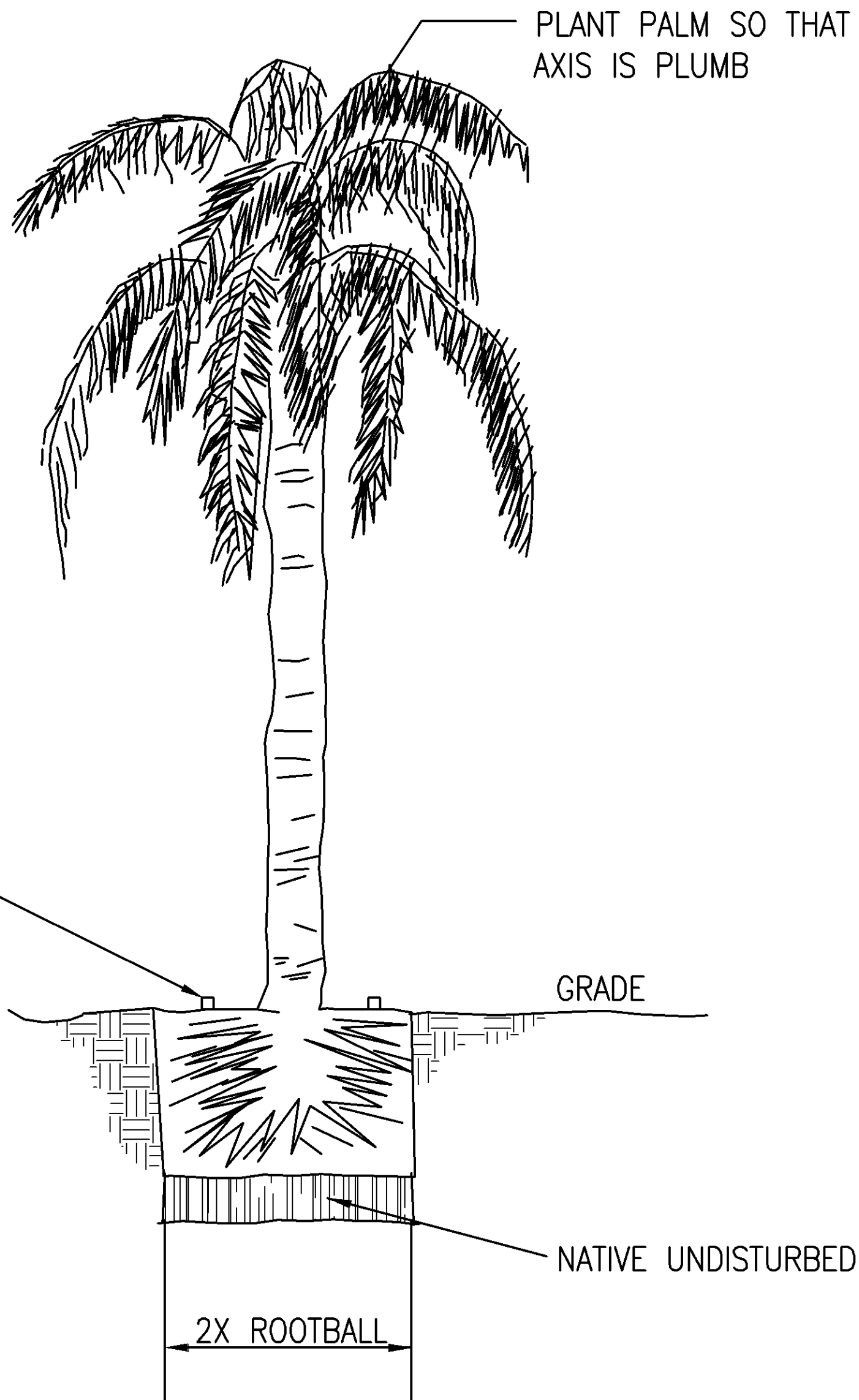
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

SHRUB INSTALLATION

1001



MINIMUM 2 EMITTERS PER TREE TO BE PLACED AT EDGE OF ROOTBALL. PLACE ON UPHILL SIDE IF PLANTED ON SLOPE

PLANT PALM SO THAT AXIS IS PLUMB

GRADE

NATIVE UNDISTURBED SOIL

2X ROOTBALL

NOTES:

TAMP & WATER-SETTLE WHILE PLANTING

TOP OF ROOT BALL NOT TO BE LOWER THAN FINISH GRADE

APPLY 1" THICK LAYER OF DECOMPOSED GRANITE ON TOP OF ROOT BALL

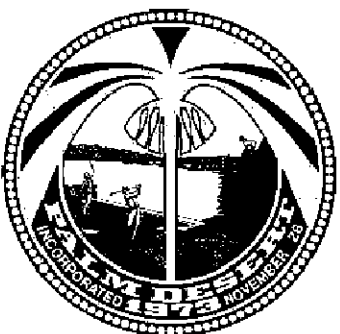
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

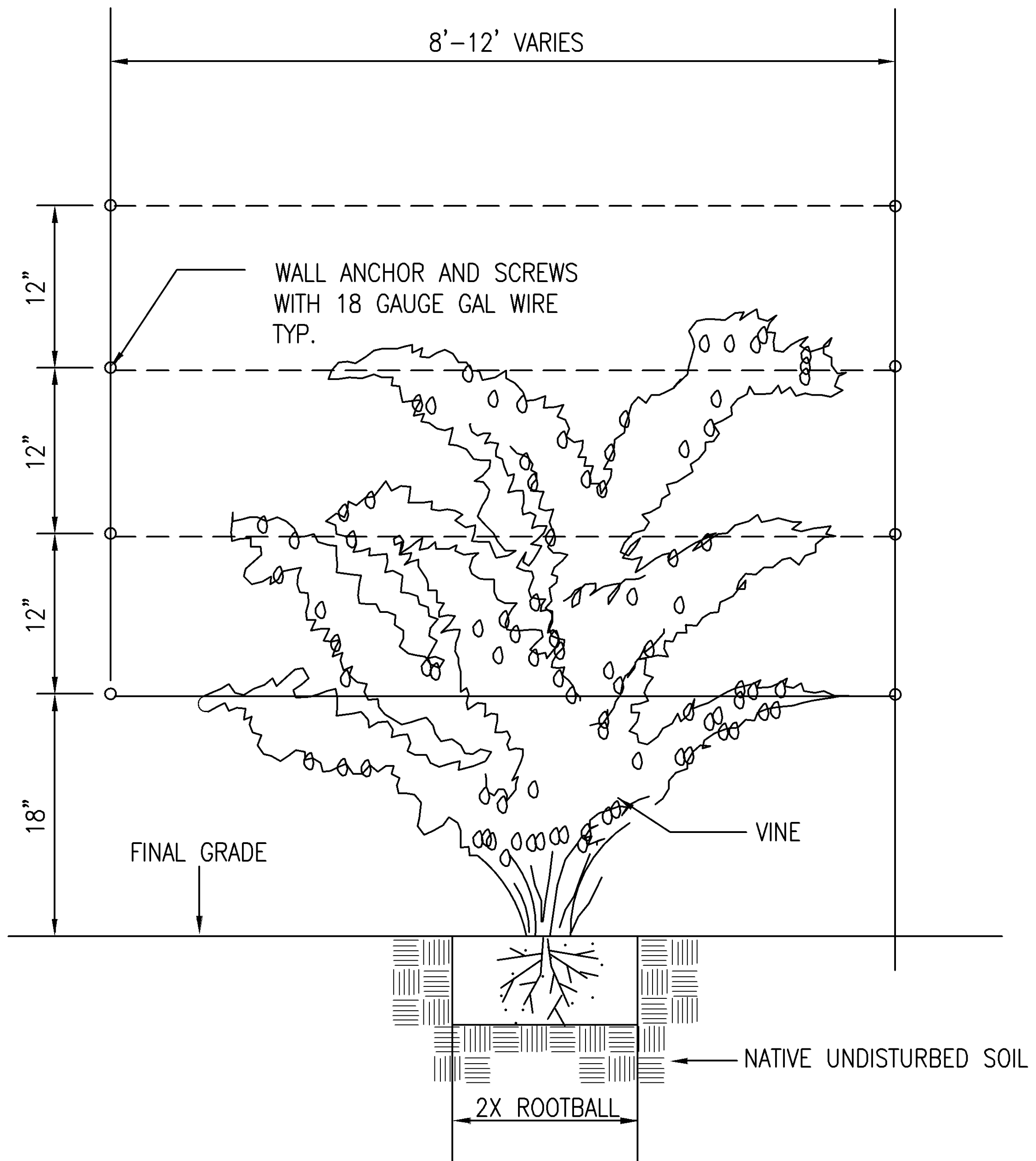


CITY ENGINEER

DATE

PALM TREE
INSTALLATION

1002



NOTES:

APPLY 1" THICK LAYER OF DECOMPOSED GRANITE ON TOP OF ROOT BALL

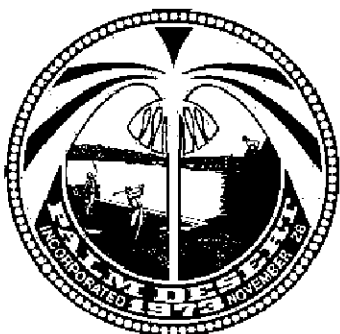
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CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

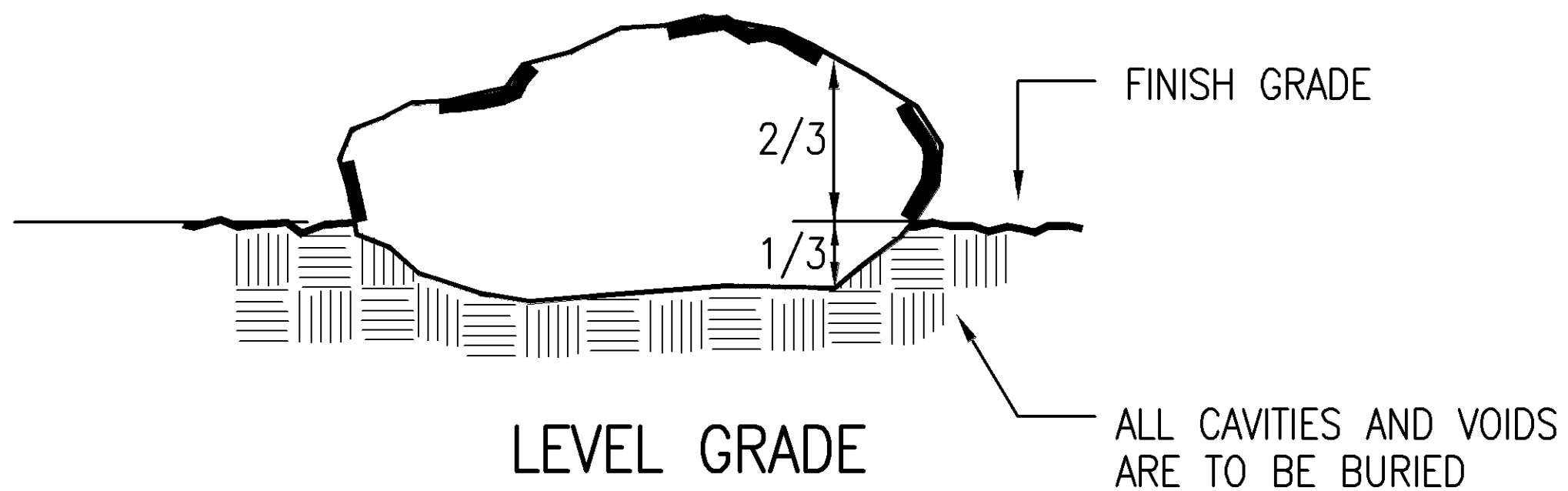
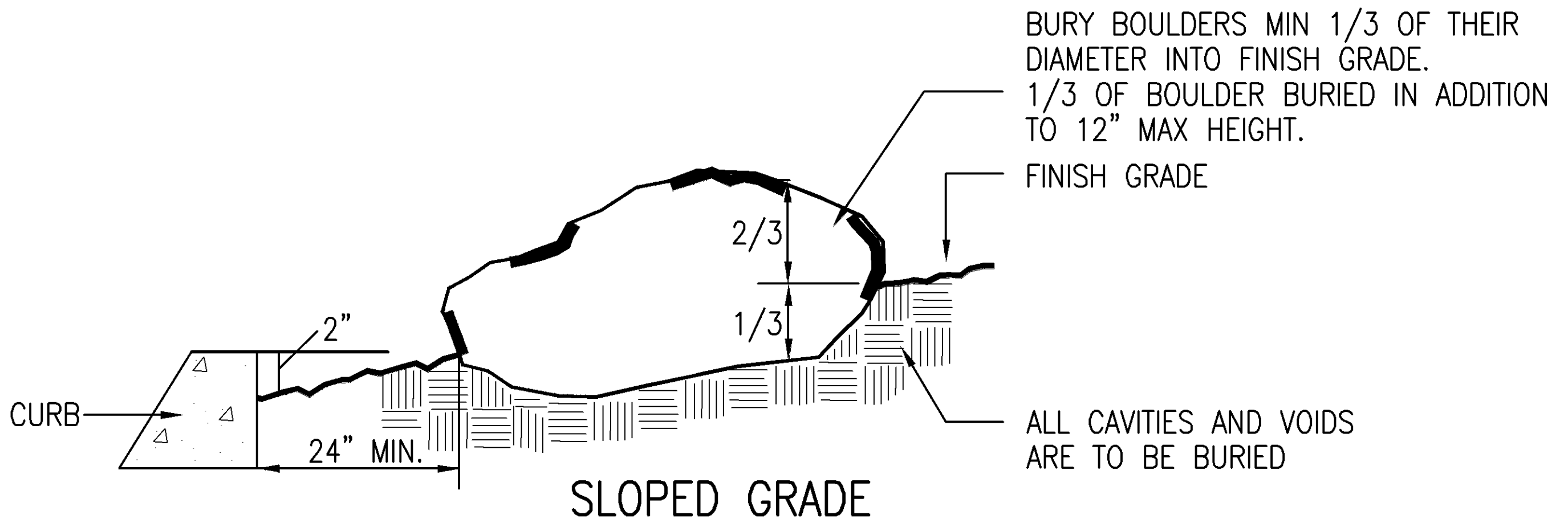


CITY ENGINEER

DATE

ESPALIER
DETAIL

1003



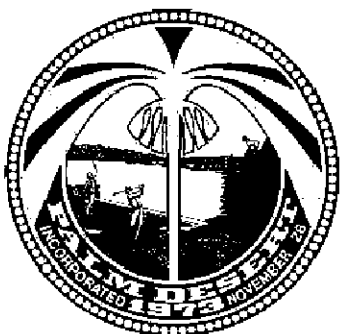
NOTES:

ALL BOULDERS TO BE A MINIMUM 24"
FROM CURB/HARDSCAPE UNLESS NOTED ON PLAN

BOULDERS IN CLUSTERS TO BE SET AT
VARIOUS HEIGHTS PER CITY APPROVAL

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

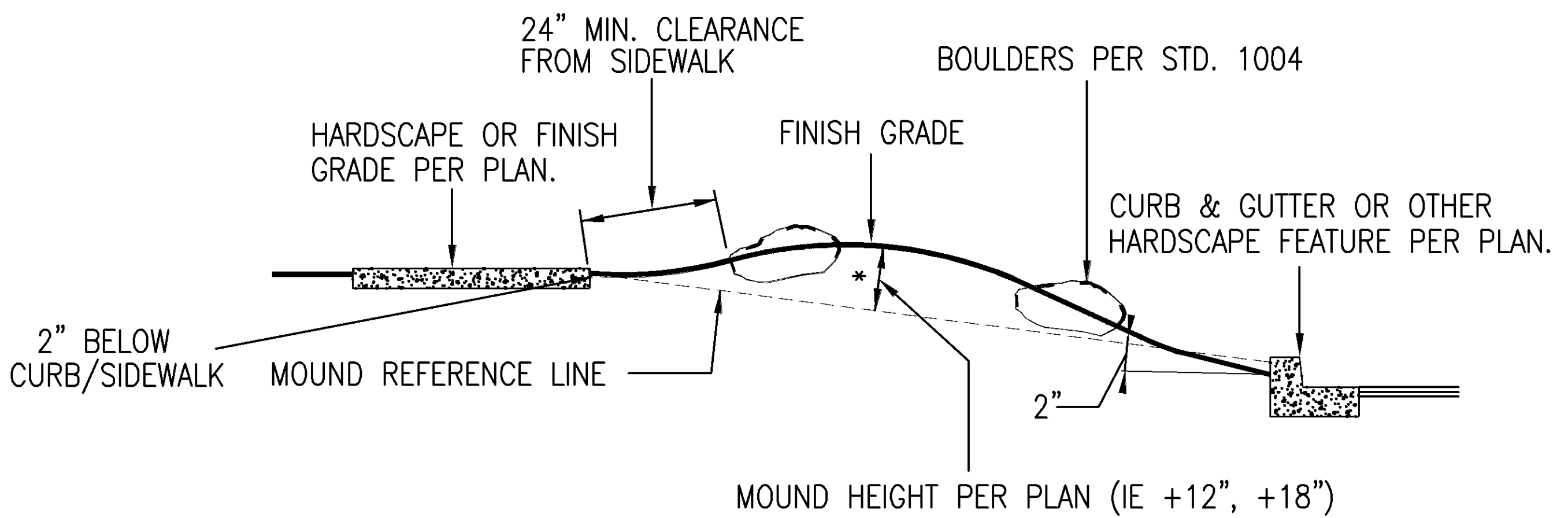
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

BOULDER
INSTALLATION

1004



NOTES:

MOUNDS ARE PER DIAGRAM

MOUND SHAPES DO NOT REPRESENT ACTUAL CONTOURS

GRADE TO ACTUAL SITE CONDITIONS
OR REFER TO LANDSCAPE PLANS

GIVE PRIORITY TO DRAINAGE OF
PLANTED AREAS.

FINISH SURFACE MUST BE 2" BELOW ADJACENT CURB
OR SIDEWALK

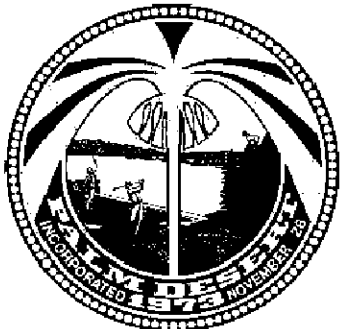
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CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

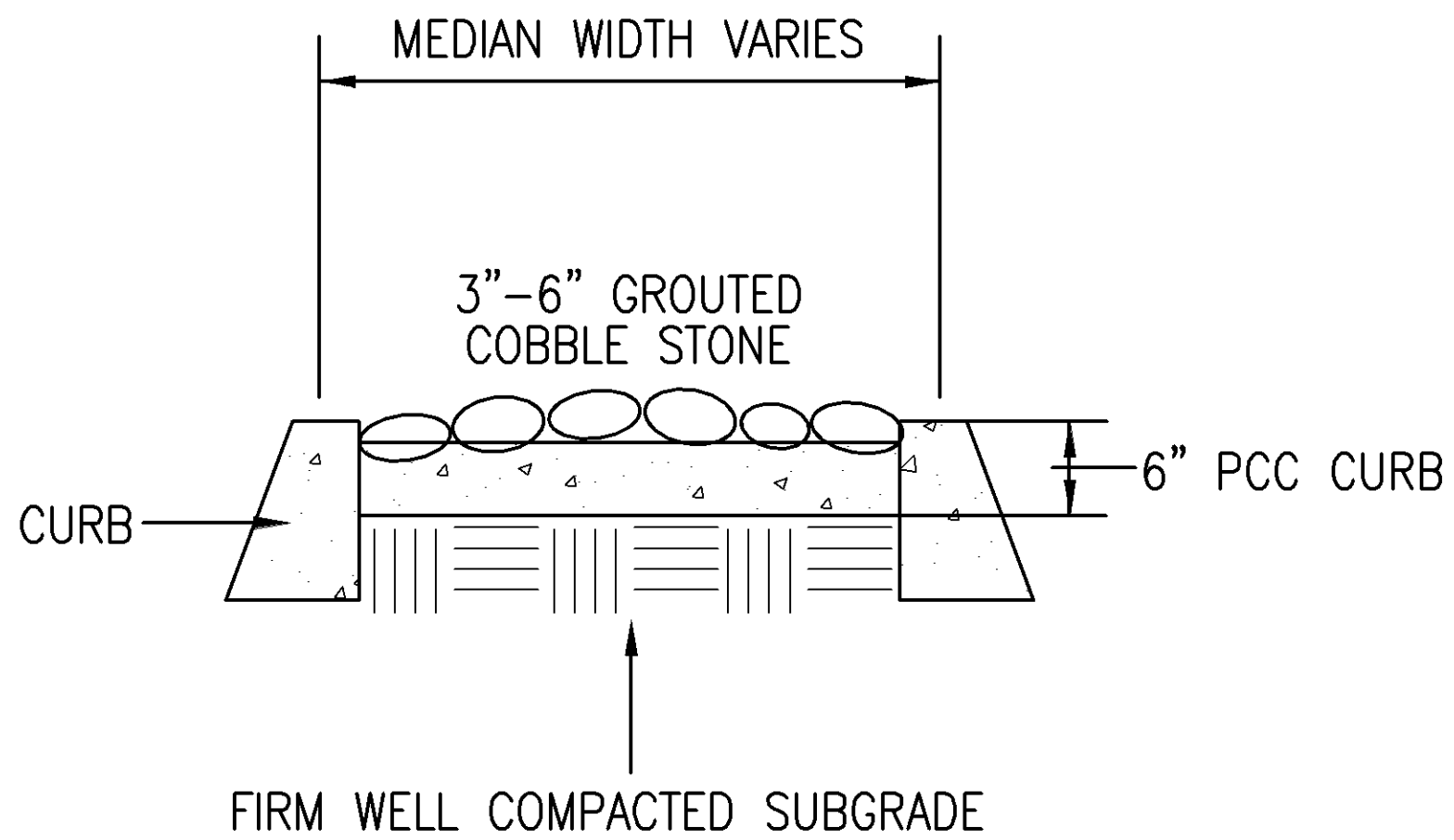


CITY ENGINEER

DATE

MOUNDING
DETAIL

1005



NOTES:

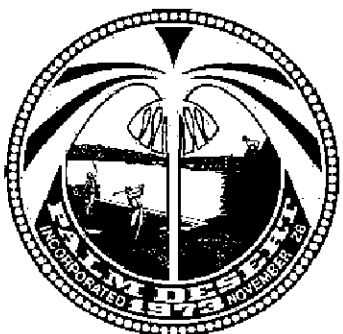
SET COBBLE IN 6" THICK CONCRETE
 MAINTAIN 1/2" SPACE BETWEEN
 ROCKS. GROUT ALL JOINTS, REMOVE EXCESS
 CONCRETE IN JOINTS. TROWEL TO 1/2" DEEP
 BETWEEN JOINTS.

CONCRETE MIX TO BE:
 6 SACKS WITH PEAGRAVEL/SAND SLURRY MIX

COBBLE STONE PATTERN RANDOM PLACED WITH
 FLAT SIDE UP, 50% BURIED IN CONCRETE

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

 CITY ENGINEER

 DATE

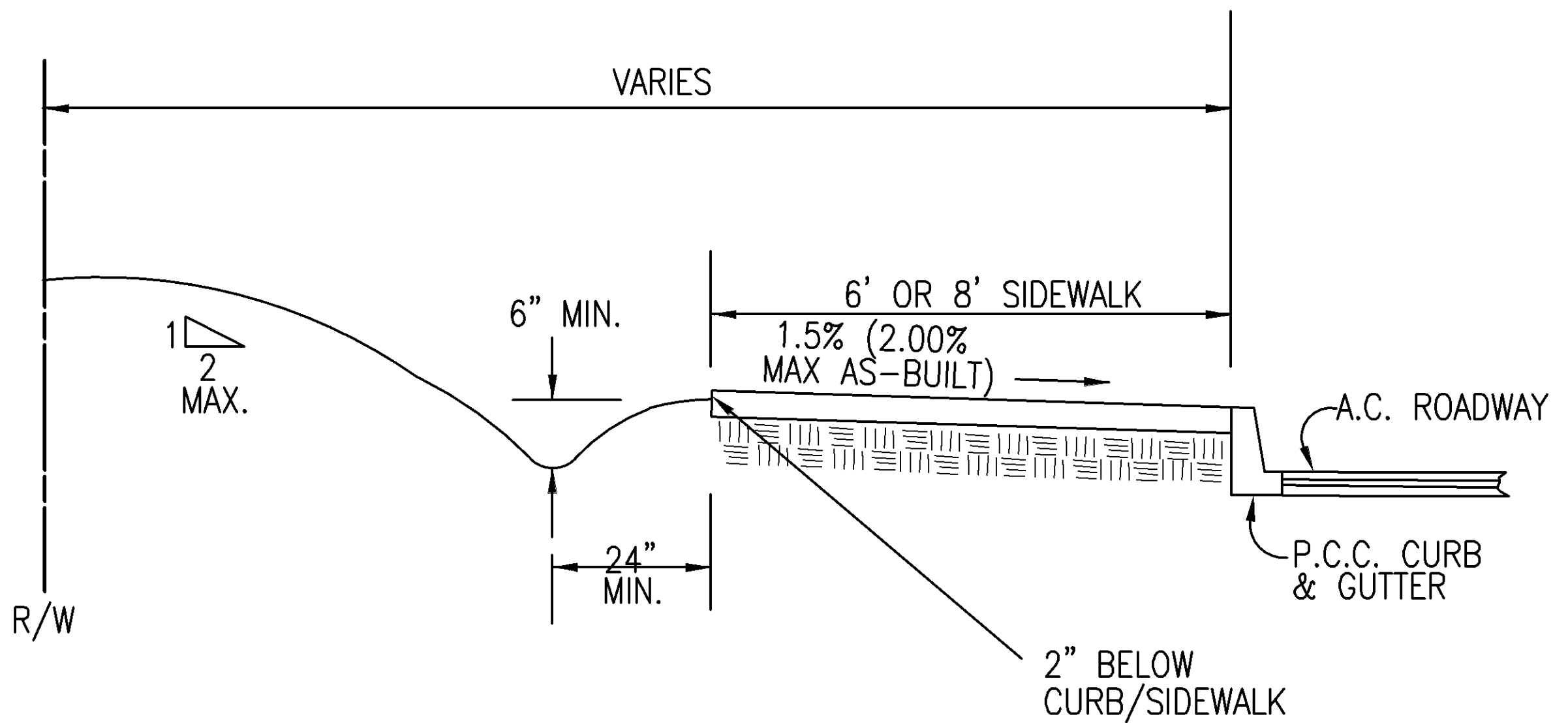
DEPARTMENT OF PUBLIC WORKS

STD NO.

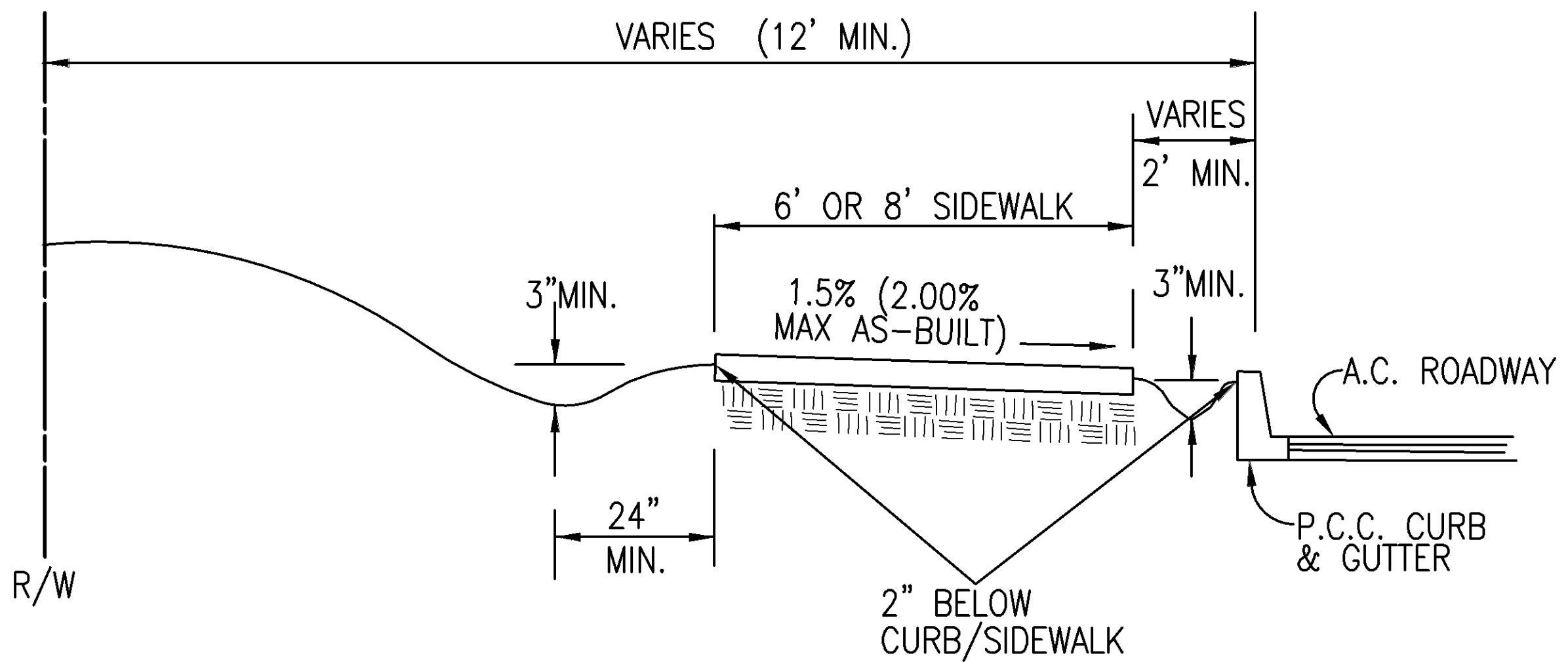
GROUTED
 COBBLESTONE
 MEDIAN DETAIL

1006

CASE 1 – CURBSIDE SIDEWALK – PARKWAY



CASE II – MEANDERING SIDEWALK – PARKWAY



NOTE:

FINISH SURFACE MUST BE 2" BELOW ADJACENT CURB OR SIDEWALK

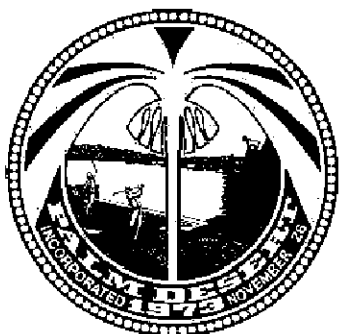
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CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



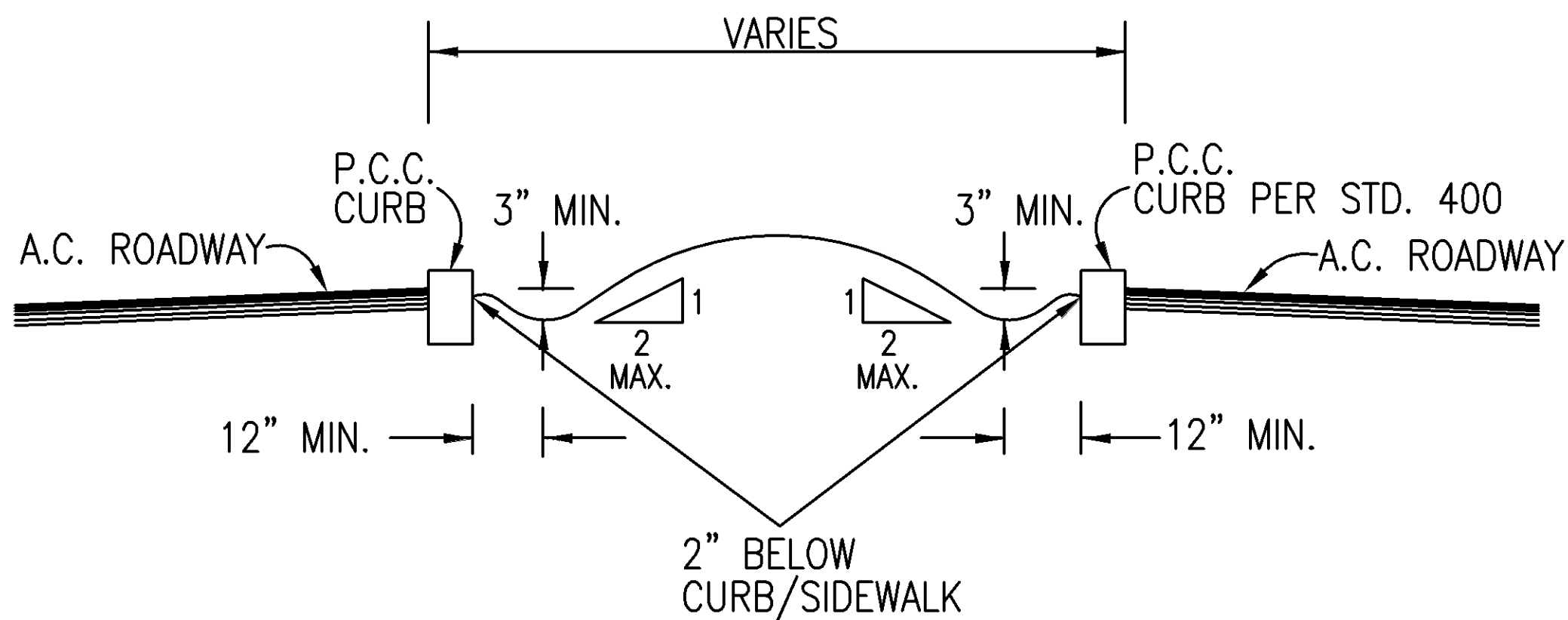
CITY ENGINEER

DATE

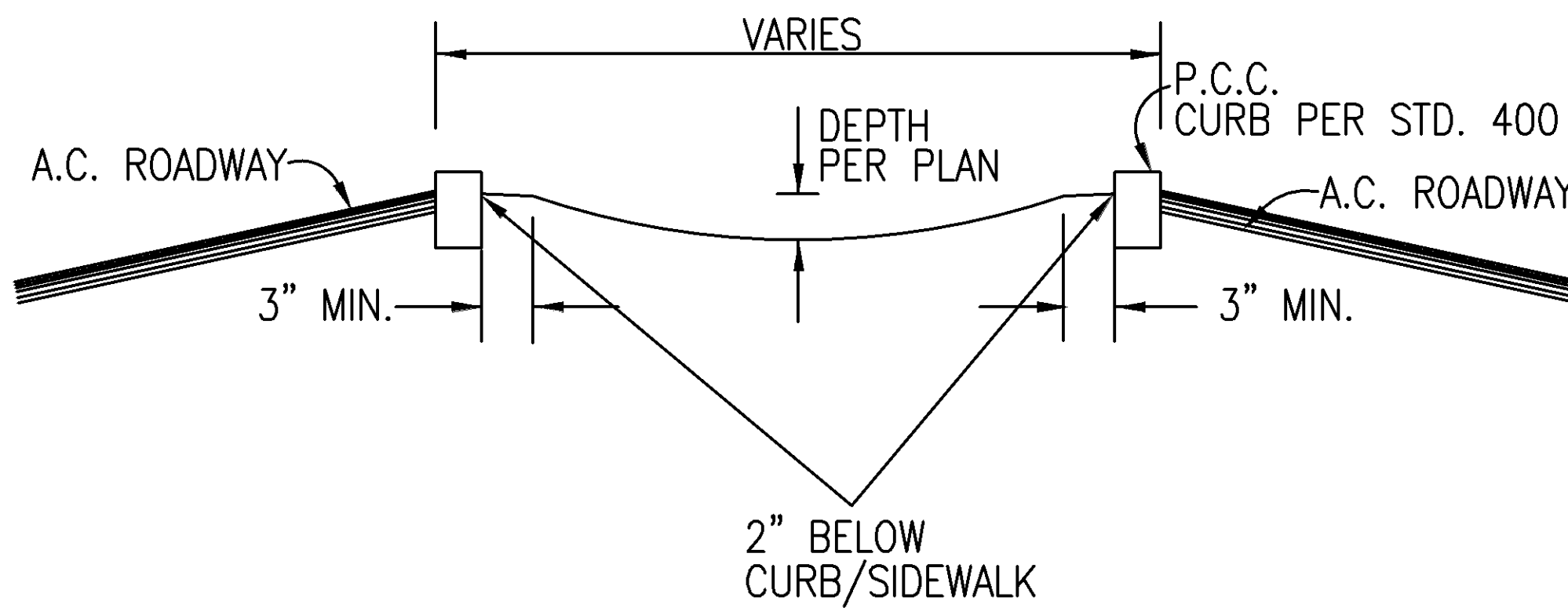
**PARKWAY
LANDSCAPE
MOUNDING**

1007

CASE III(A) – RAISED MEDIAN ISLAND



CASE III(B) – DEPRESSED MEDIAN ISLAND



NOTE:

FINISH SURFACE MUST BE 2" BELOW ADJACENT CURB OR SIDEWALK

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

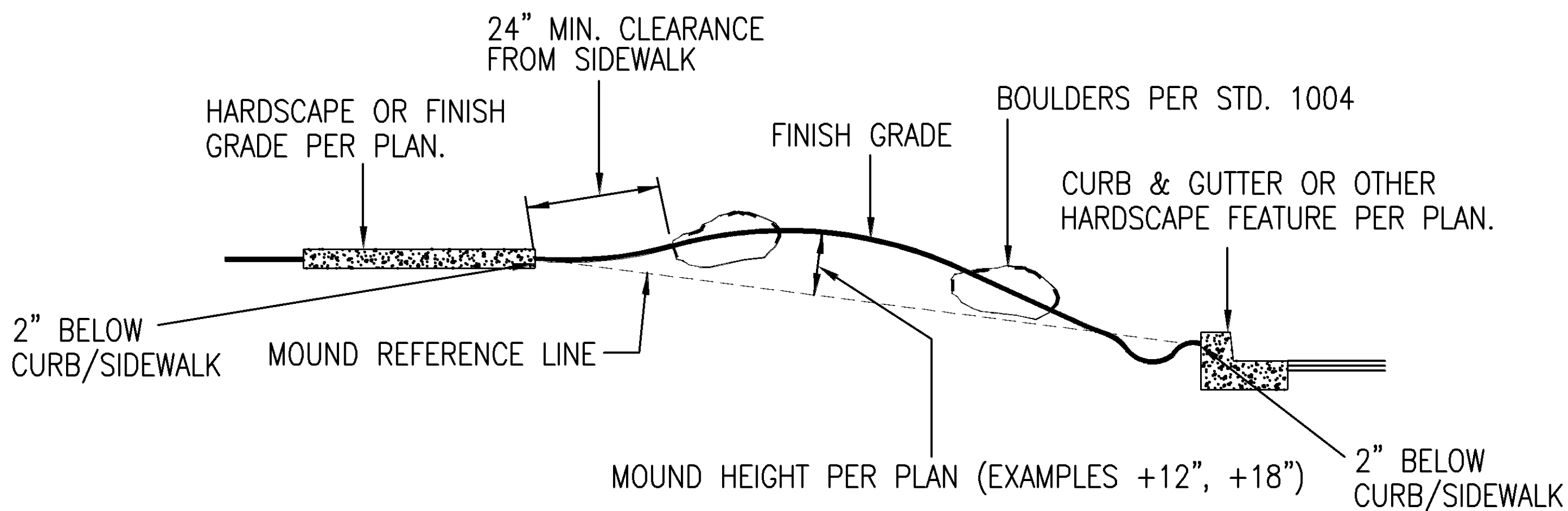
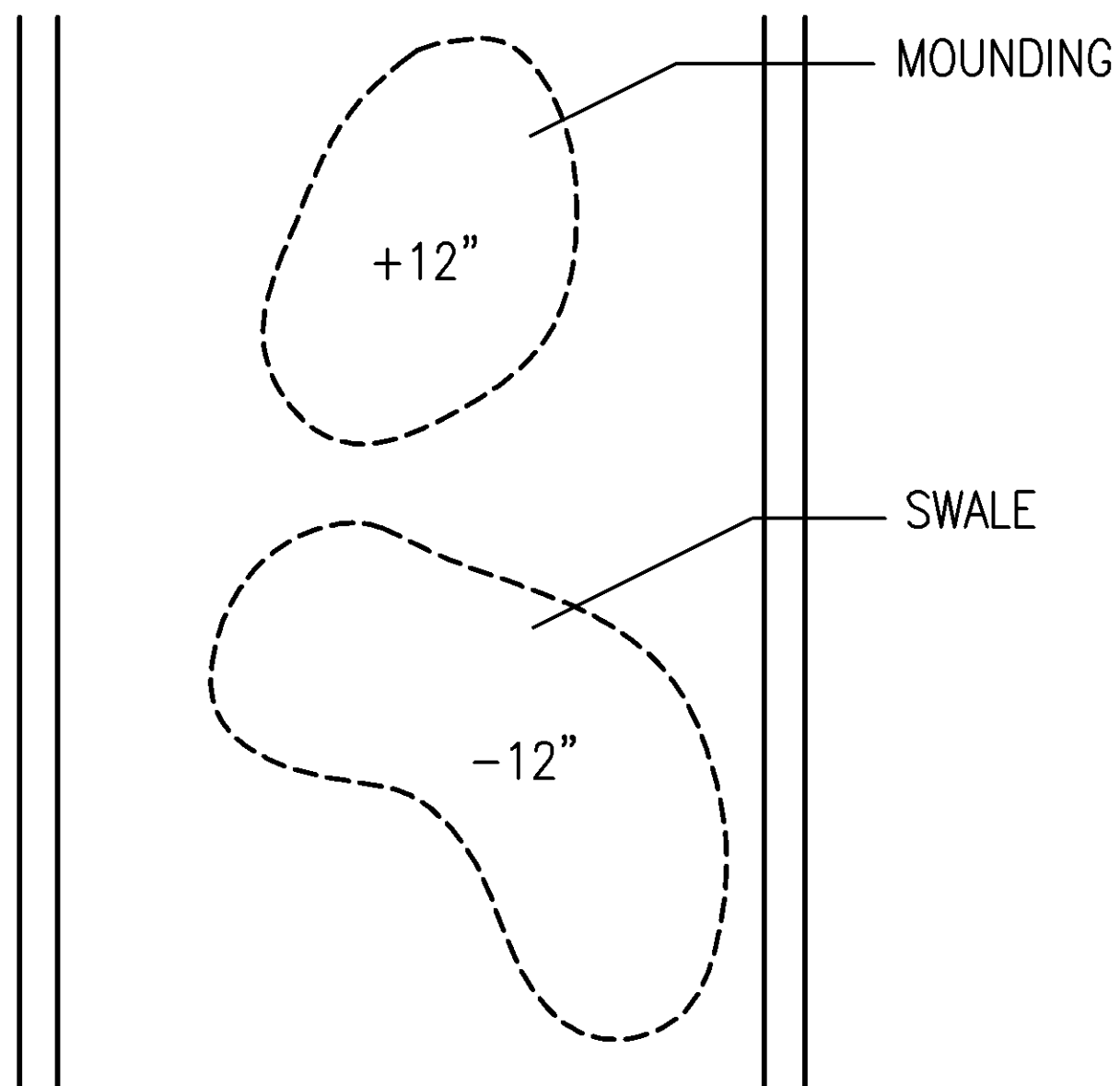
DATE

DEPARTMENT OF PUBLIC WORKS

MEDIAN
LANDSCAPE
MOUNDING

STD NO.

1008



NOTES:

MOUNDS ARE PER DIAGRAM

MOUND SHAPES DO NOT REPRESENT ACTUAL CONTOURS

GRADE TO ACTUAL SITE CONDITIONS
GIVE PRIORITY TO DRAINAGE OF
PLANTED AREAS.

FINISH SURFACE MUST BE 2" BELOW CURB
OR SIDEWALK

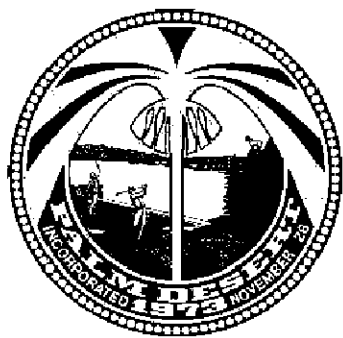
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CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

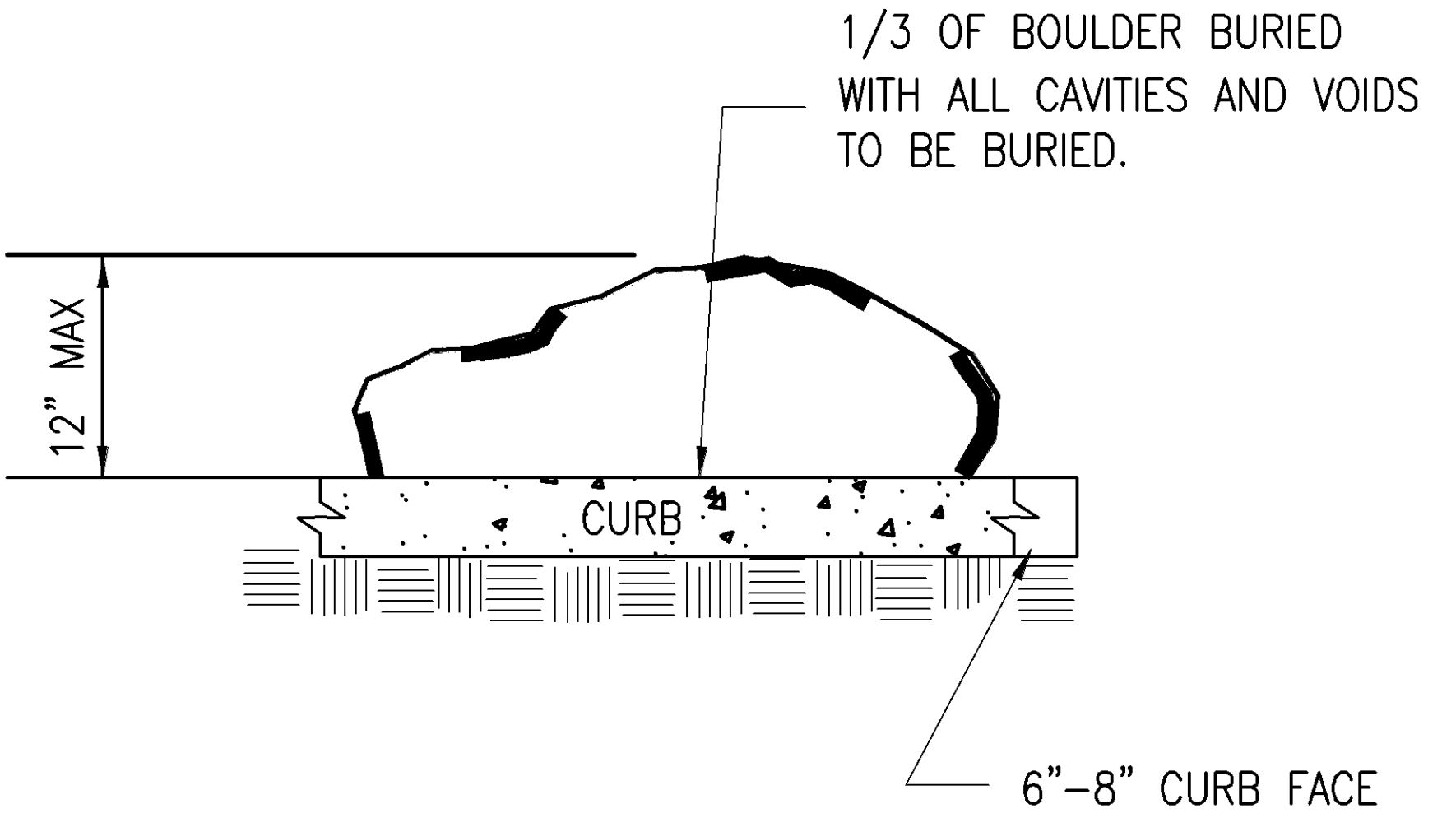
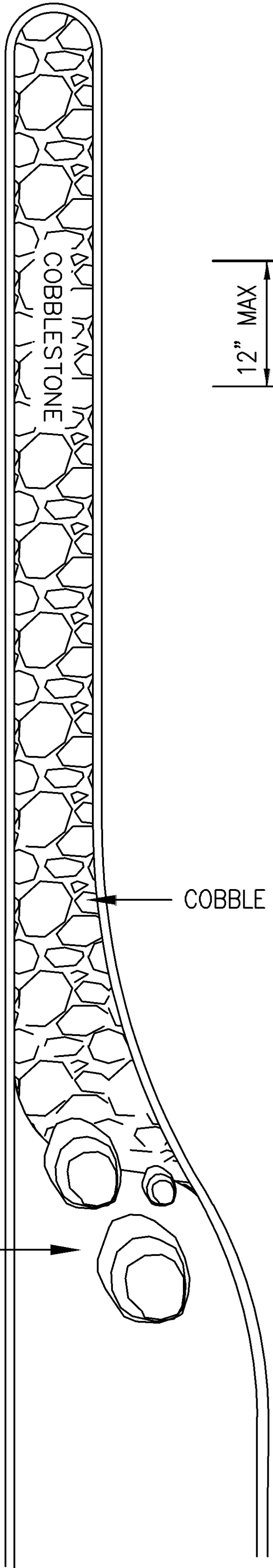


CITY ENGINEER

DATE

MEDIAN GRADING
DETAIL

1009



NOTES:

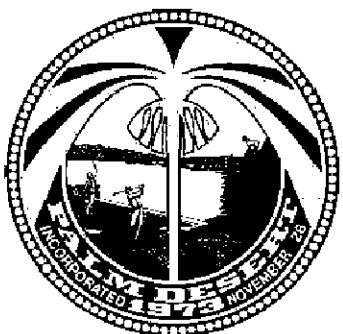
EDGE OF COBBLE STONE LAYOUT TO BE FREEFORM DO NOT FORM A STRAIGHT EDGE

BOULDERS TO BE PLACED AT EDGE OF COBBLE STONE LAYOUT PER PLAN

BOULDER PLACEMENT 24" AWAY FROM BACK OF CURB NOT TO EXCEED 12" FROM TOP OF CURB

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

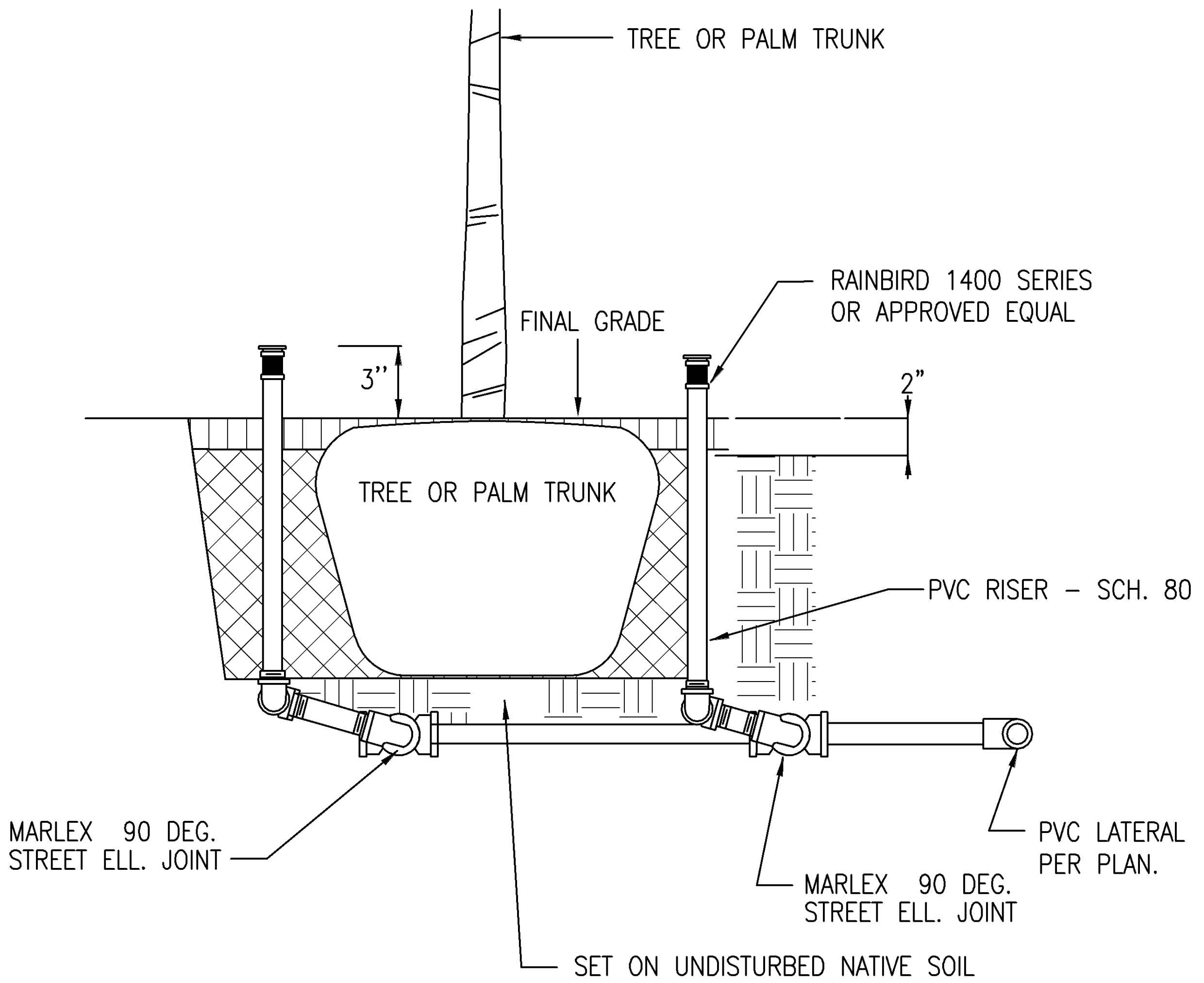
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

BOULDER PLACEMENT
(MEDIAN)

1010



NOTES:

SET BUBBLER MINIMUM 12" AWAY FROM ROOT BALL

SET PALM/TREE ON NATIVE UNDISTURBED SOIL

PROVIDE MINIMUM 2" DEPTH OF CLEAN BACKFILL UNDER IRRIGATION PIPES

TREE PIT PER PLANTING DETAILS

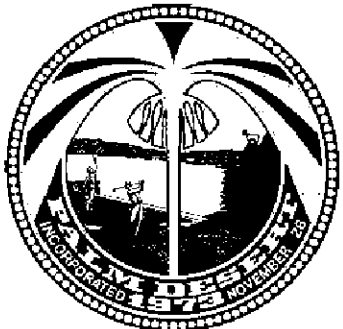
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CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

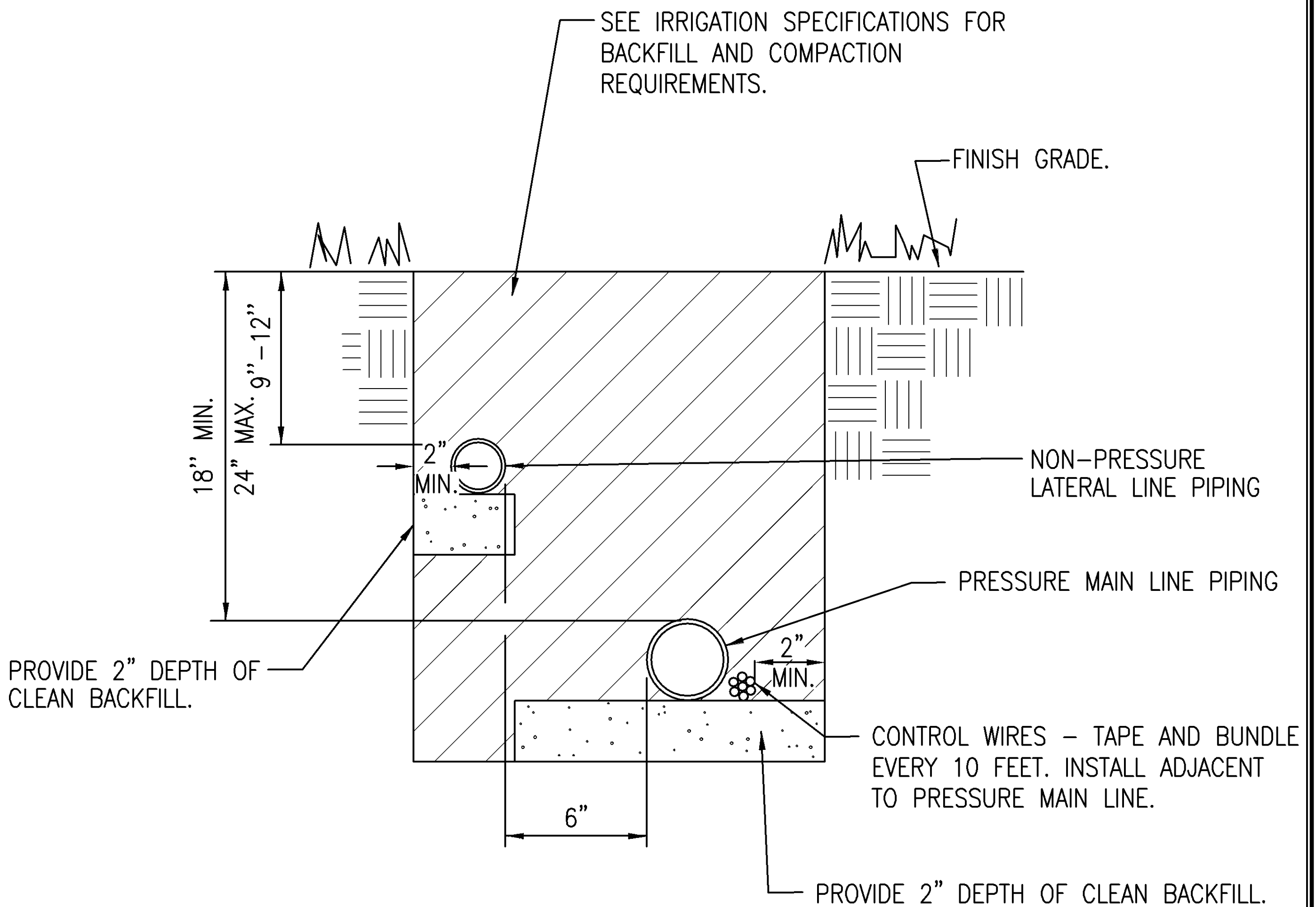


CITY ENGINEER

DATE

PALM/TREE
IRRIGATION DETAIL

1011



NOTES:

TAPE AND BUNDLE 14g SINGLE STRAND CONTROL WIRE EVERY 10 FT. INSTALL ADJACENT TO PRESSURIZED MAIN LINE.

COIL 24 IN OF WIRE IN ALL CORNERS.

SEE IRRIGATION SPECS. FOR BACKFILL AND COMPACTION REQUIREMENTS.

MINIMUM BACKFILL DEPTHS FROM FINAL GRADE TO TOP OF MAINLINE
 18 IN FOR PIPE SIZES 2 1/2 IN AND SMALLER
 24 IN FOR PIPE SIZES 3 IN AND LARGER.

PROVIDE MINIMUM 2" DEPTH OF CLEAN BACKFILL UNDER IRRIGATION PIPES.

NO ELECTRICAL CONDUIT TO BE PLACED IN IRRIGATION TRENCH.

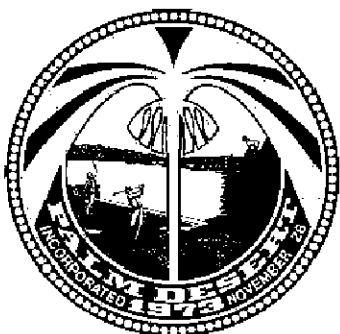
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.

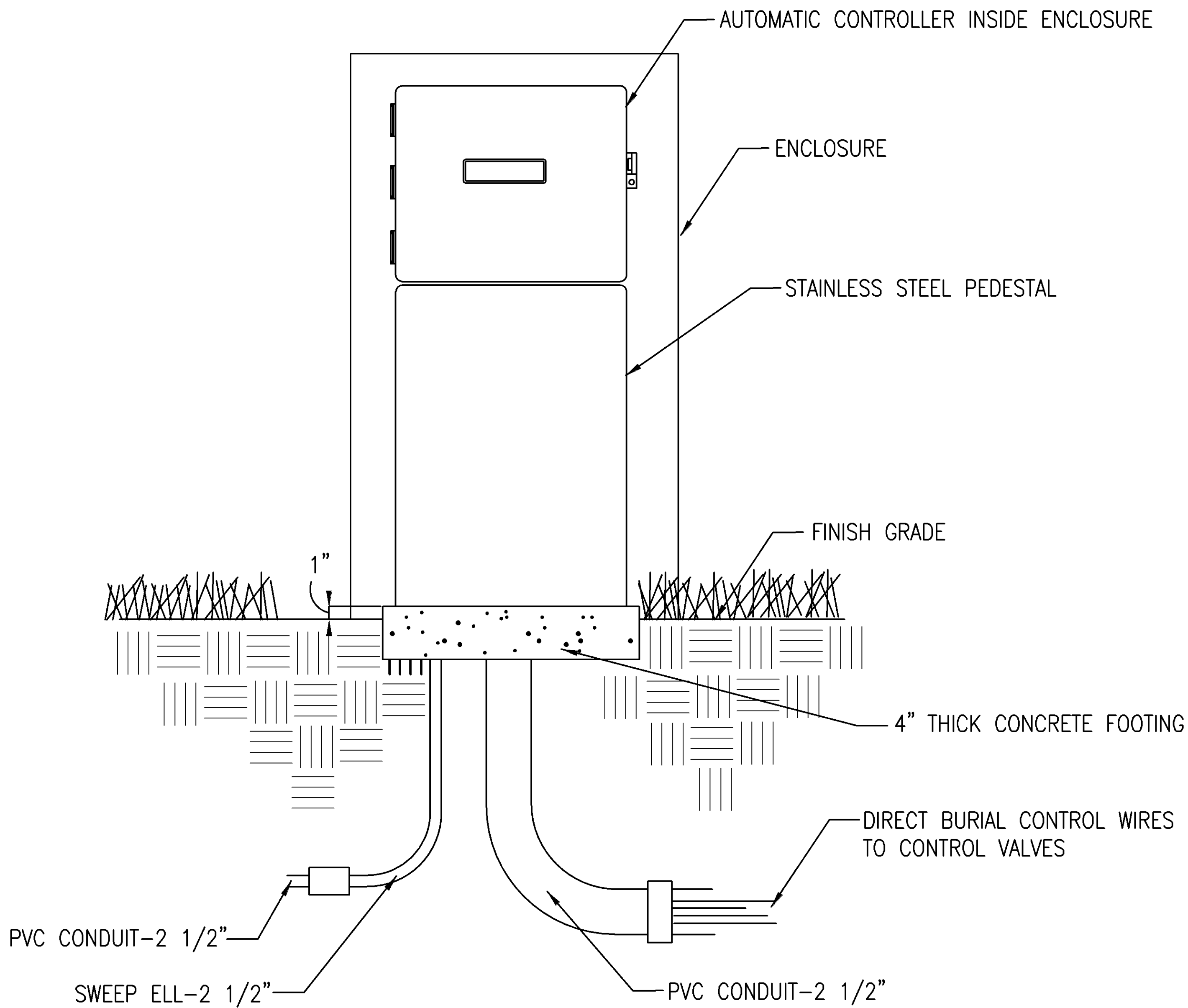


CITY ENGINEER

DATE

TRENCHING
DETAIL

1012



NOTES:

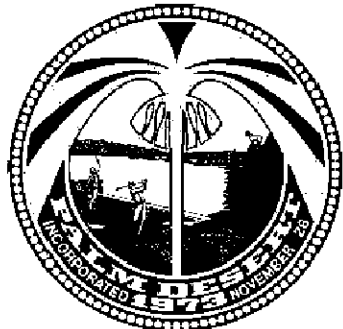
POUR A 4" THICK CONCRETE PAD
PER CITY STANDARD 560-C-2800

ENCLOSURE TO BE TAMPER PROOF AND VANDALISM RESISTANT

INSTALL ALL WIRING PER LOCAL CODE

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

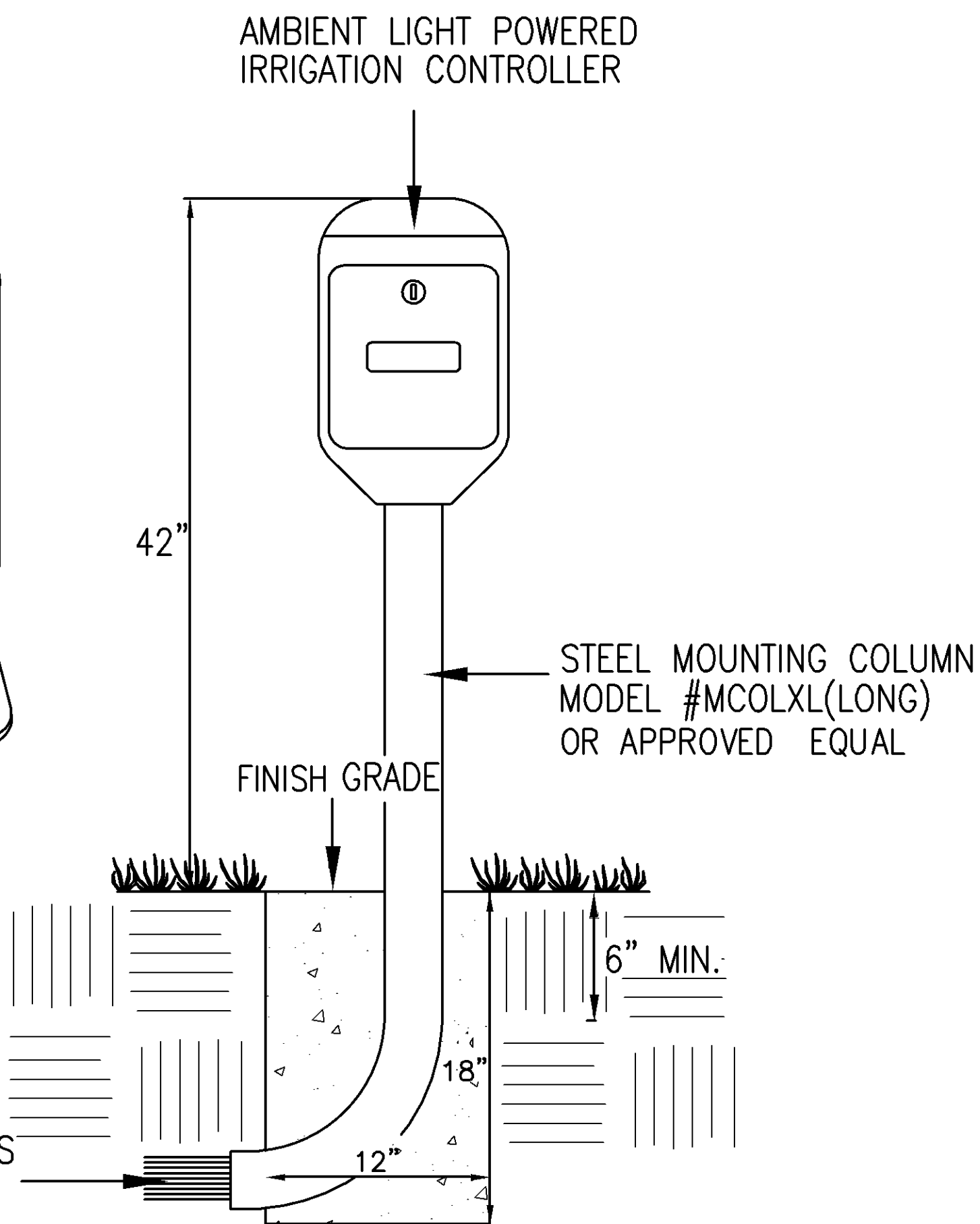
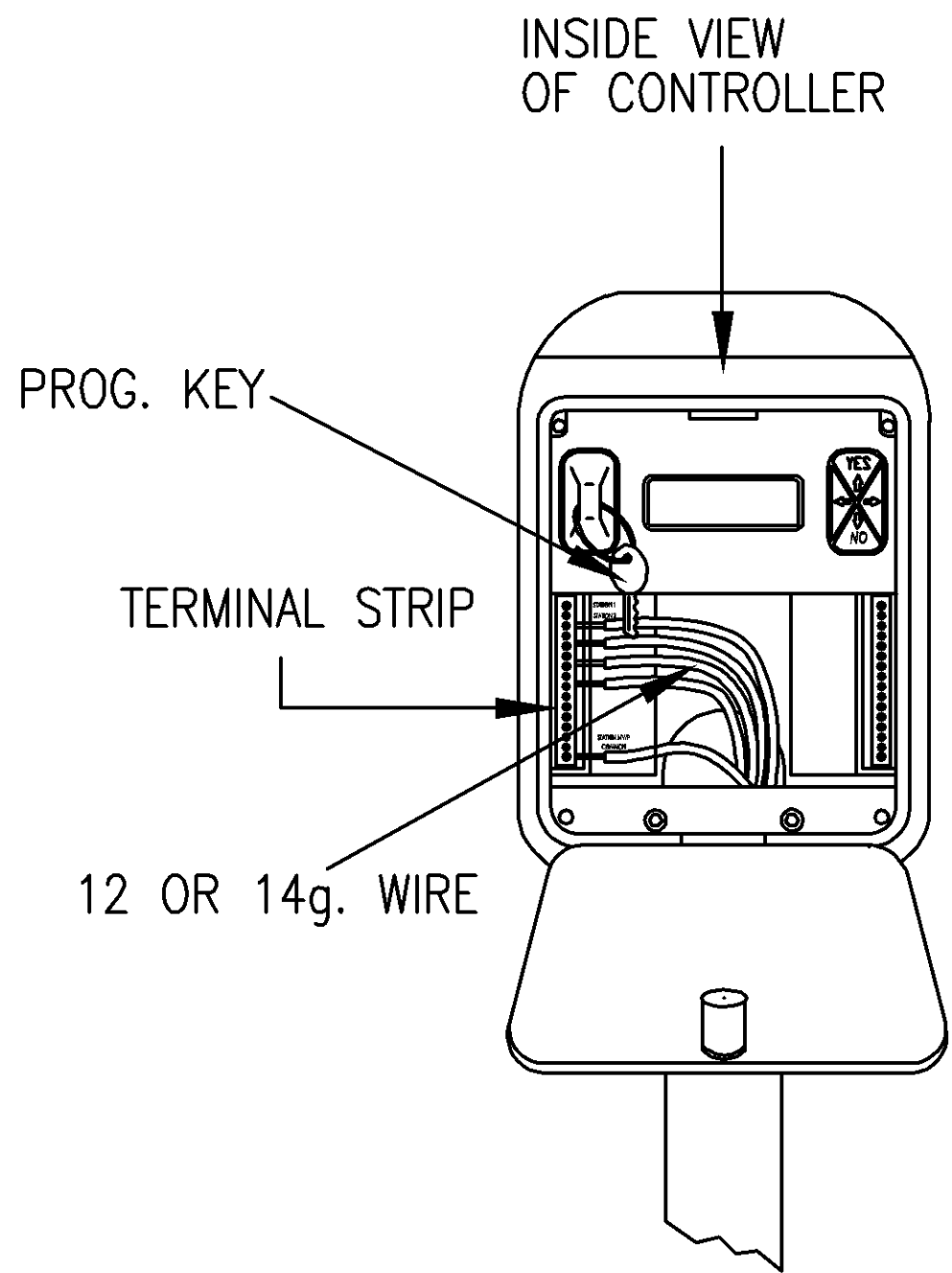
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

CONTROLLER W/
ENCLOSURE

1013

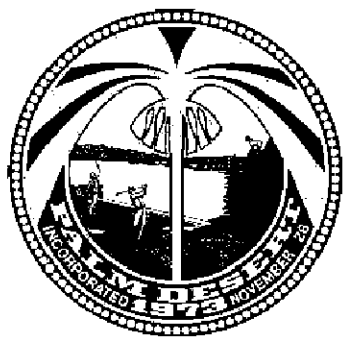


NOTES:

POUR A 1-1/2 CU. FT. CONCRETE BASE PAD
PER CITY STANDARD 560-C-3250
OR MANUFACTURER'S RECOMMENDATION

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

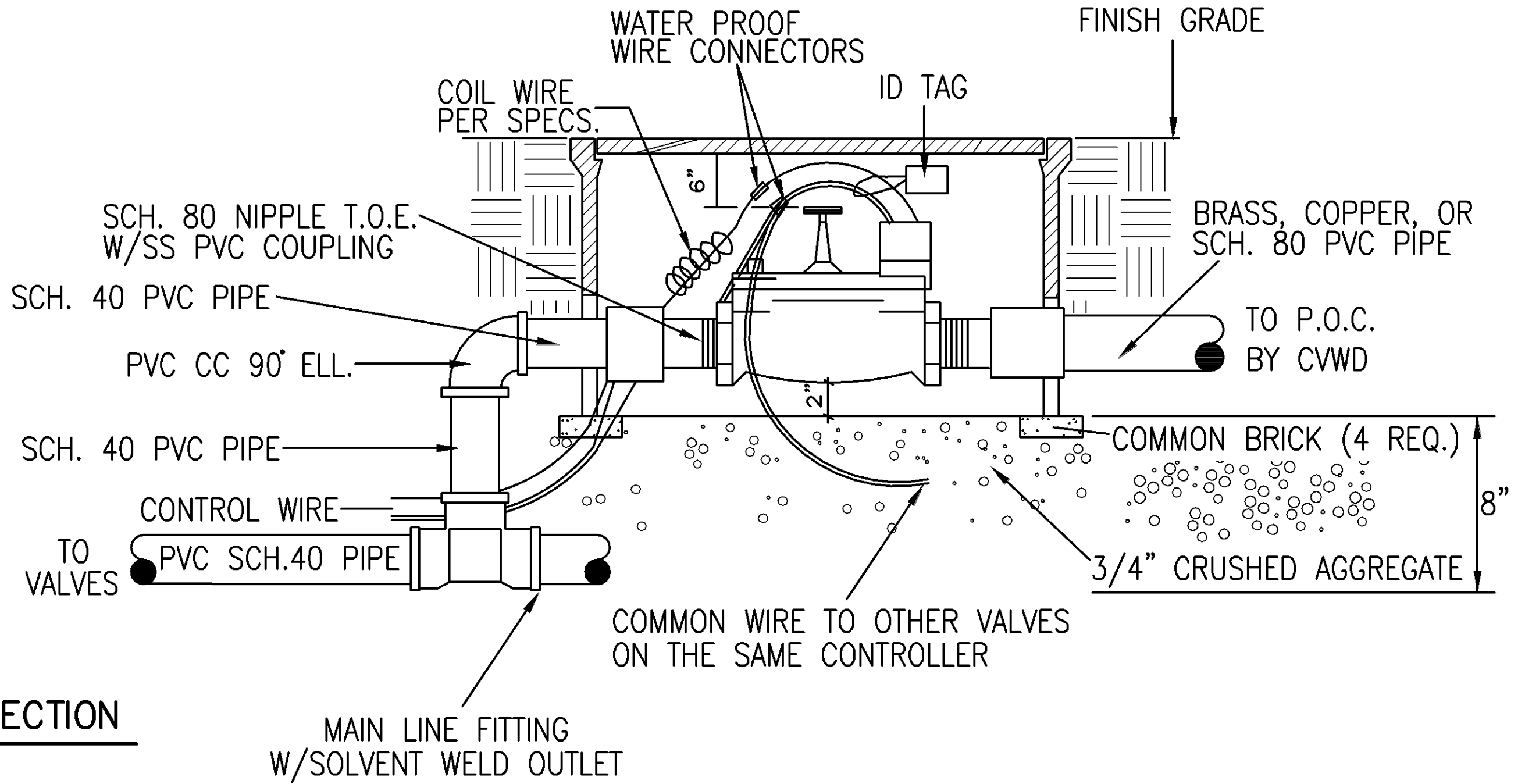
STD NO.

AMBIENT LIGHT
IRRIGATION CONTROLLER

1014

MCV

PLAN



SECTION

NOTES:

RAIN BIRD BG SERIES ELEC. CONTROL VALVE
OR APPROVED EQUAL

RECTANGULAR VALVE BOX W/GREEN BOLT DOWN COVER
IN TURF AND TAN IN SHRUB BEDS

HEAT BRAND VALVE STATION NO. ON LID 2" HIGH CHARACTERS

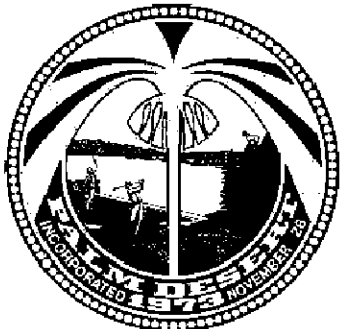
ALL FITTINGS AND PIPE TO BE EITHER BRASS OR COPPER
FROM POINT OF CONNECTION TO CONTROL VALVE ASSEMBLY

CONTROL WIRES FROM CONTROLLER TO BE COLOR ORANGE
UNLESS OTHERWISE SPECIFIED BY THE CITY OF PALM DESERT

ALL CONNECTORS TO BE WATERPROOF

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

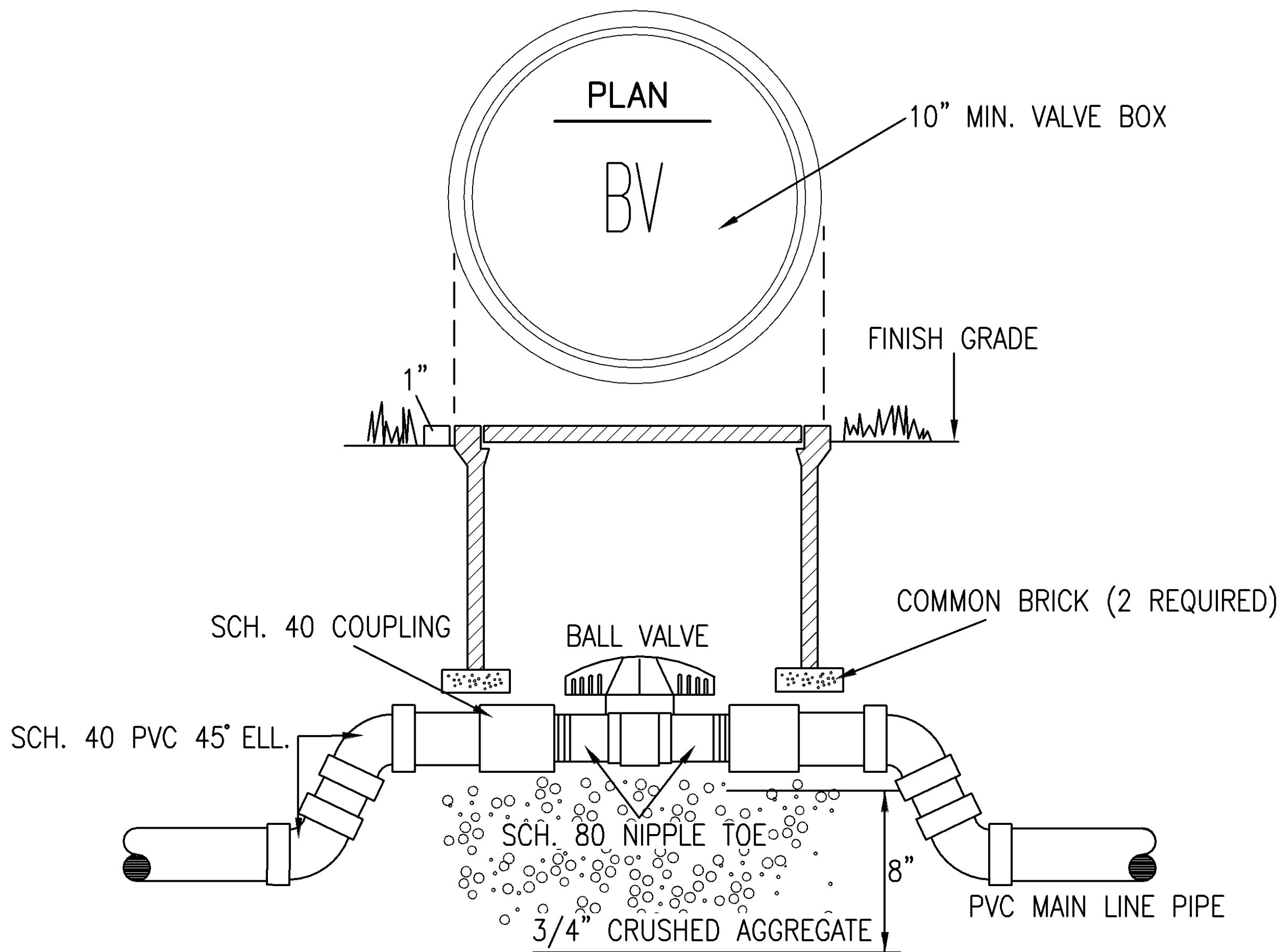
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

MASTER VALVE
ASSEMBLY DETAIL

1015



SECTION

NOTES:

VALVE BOX WITH TAN BOLT DOWN COVER - (GREEN IF IN TURF)

HEAT BRAND "BV" ON VALVE BOX COVER IN 2" HIGH LETTERS.

BRASS BODIED BALL VALVE FULL-PORT

SCH. 40 PVC PIPE EXTENSION, DIA. TO ALLOW FOR MOVEMENT OF HANDLE ON VALVE LENGTH AS REQUIRED.

SCH. 80 NIPPLE TOE W/SS PVC COUPLING

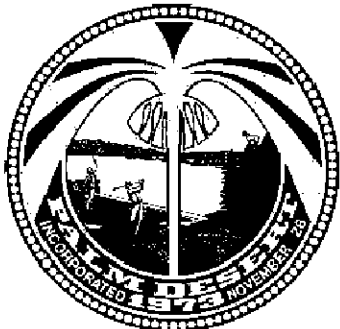
N.T.S.

CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



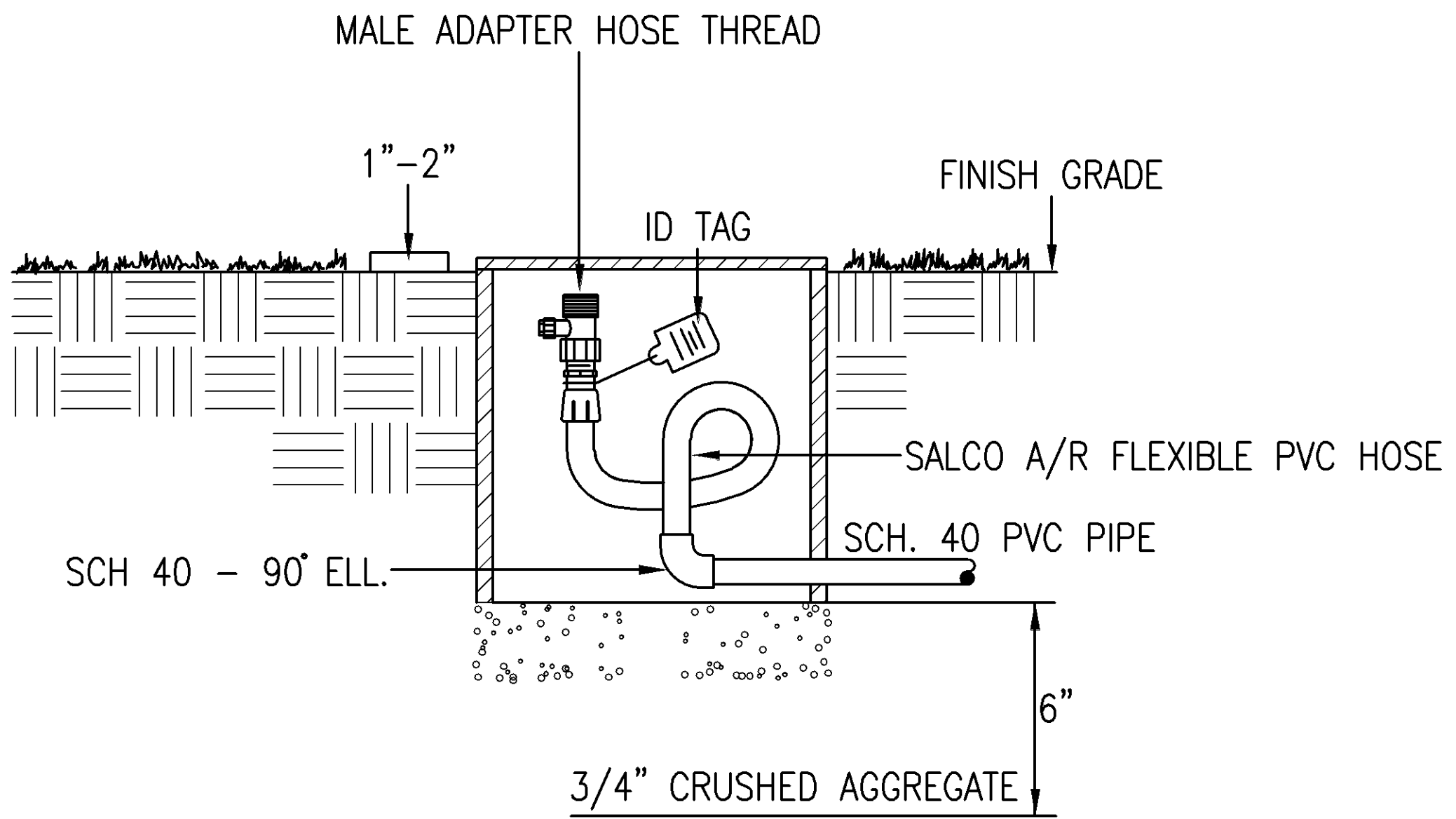
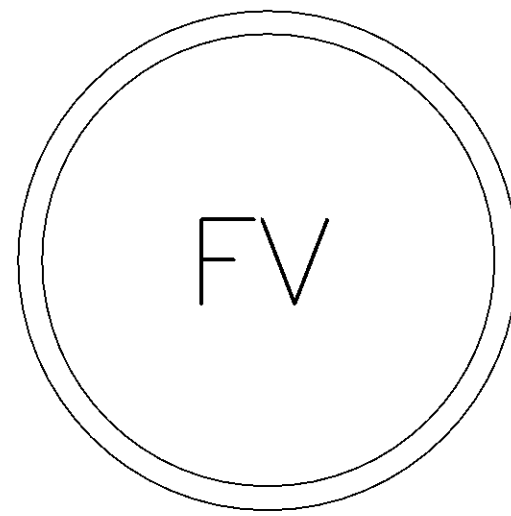
CITY ENGINEER

DATE

**BALL VALVE
ASSEMBLY DETAIL**

1016

PLAN



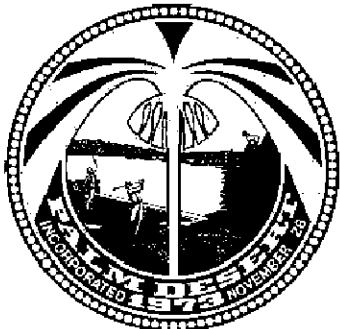
SECTION

NOTES:

- 10" ROUND VALVE
BOX WITH TAN COVER OR GREEN IN TURF
- HEAT BRAND "FV" ON LID
IN 2" HIGH CHARACTERS.
- AG PRODUCTS 3/4"-(PLASTIC) BALL VALVE
- PVC SCH. 40 MALE ADAPTER HOSE THREAD
- SALCO A/R FLEXIBLE PVC HOSE
MINIMUM 3 FOOT LENGTH (OR APPROVED EQUAL)
- USE TEFLON TAPE ON ALL MALE PIPE
THREADS

N.T.S.

CITY OF PALM DESERT



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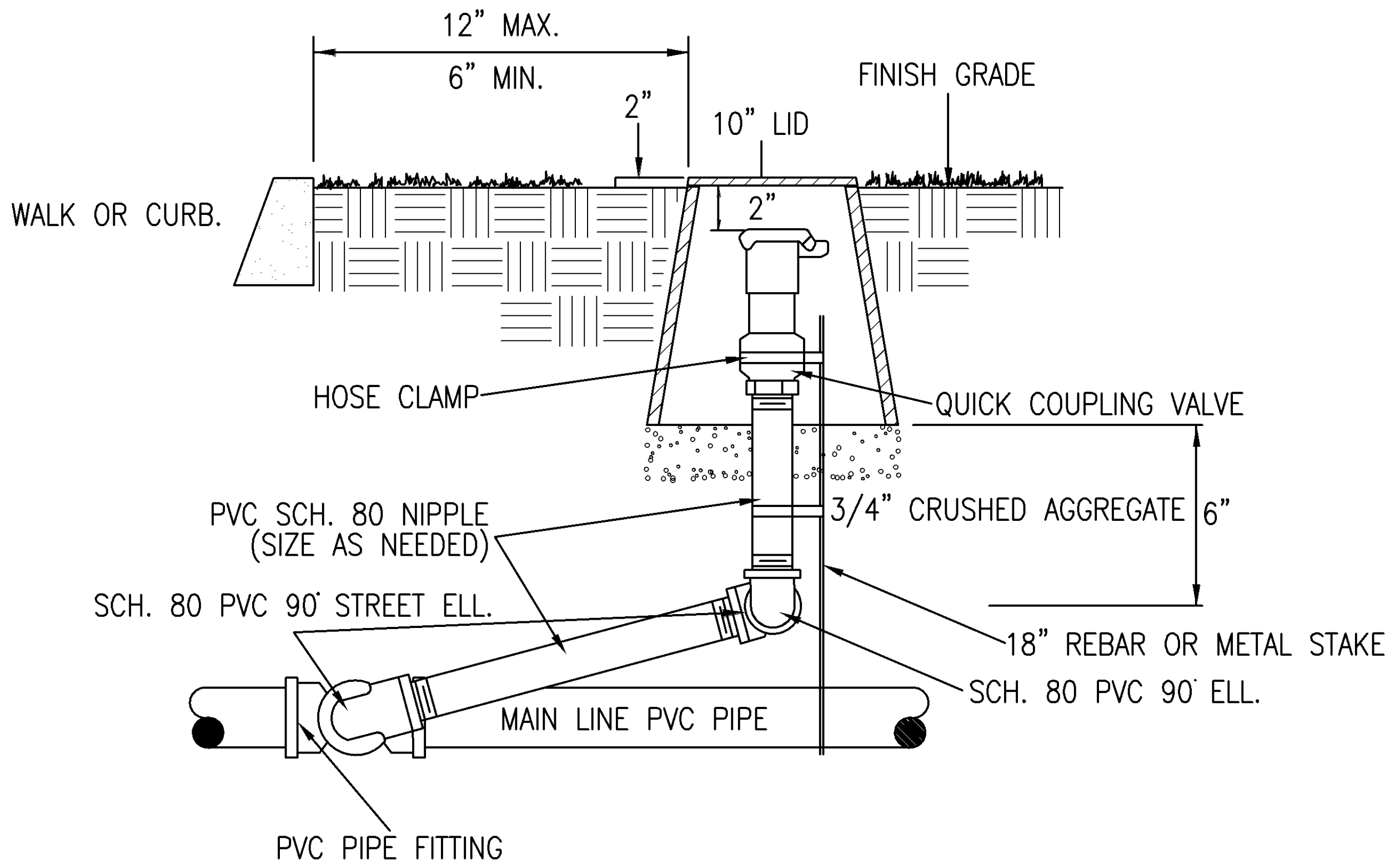
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

END FLUSH
VALVE DETAIL

1017



NOTES:

VALVE BOX COLOR GREEN IN TURF AREAS
TAN IN DECOMPOSED GRANITE PLANTING BEDS

HEAT BRAND "QCV" ON LID IN 2" HIGH
CHARACTERS.

USE TEFLON TAPE ON ALL MALE PIPE
THREADS

18" REBAR OR METAL STAKE REQUIRED TO ATTACH
COUPLING VALVE (TO FIX UPRIGHT)

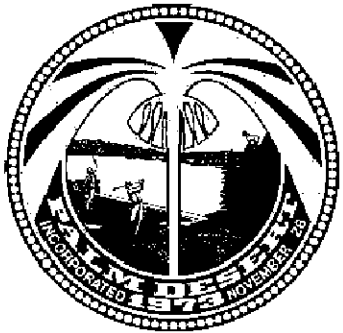
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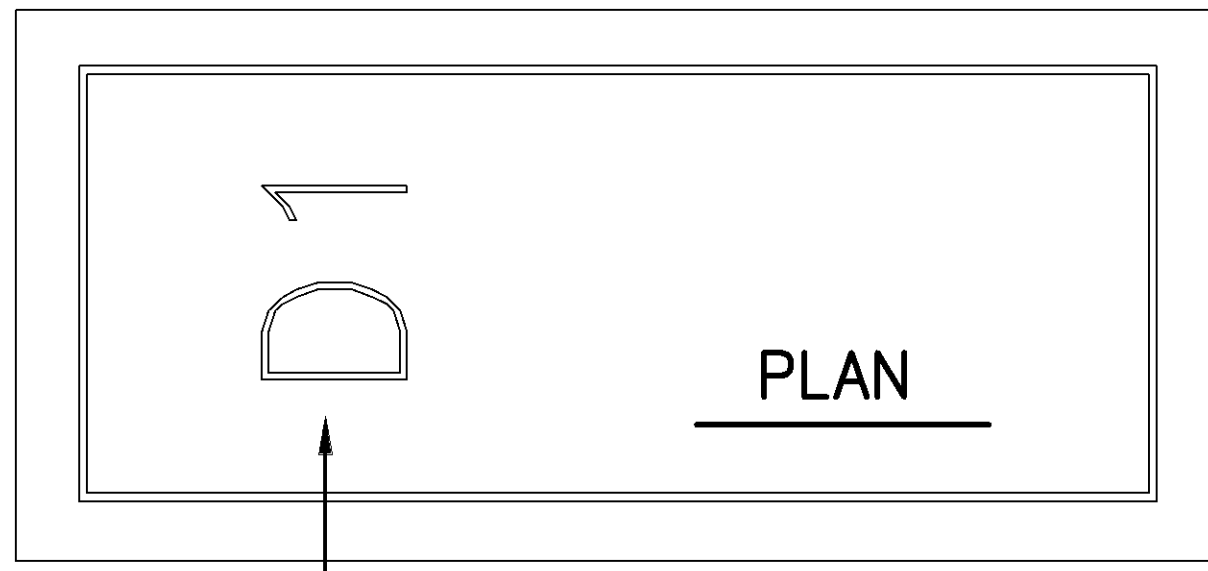


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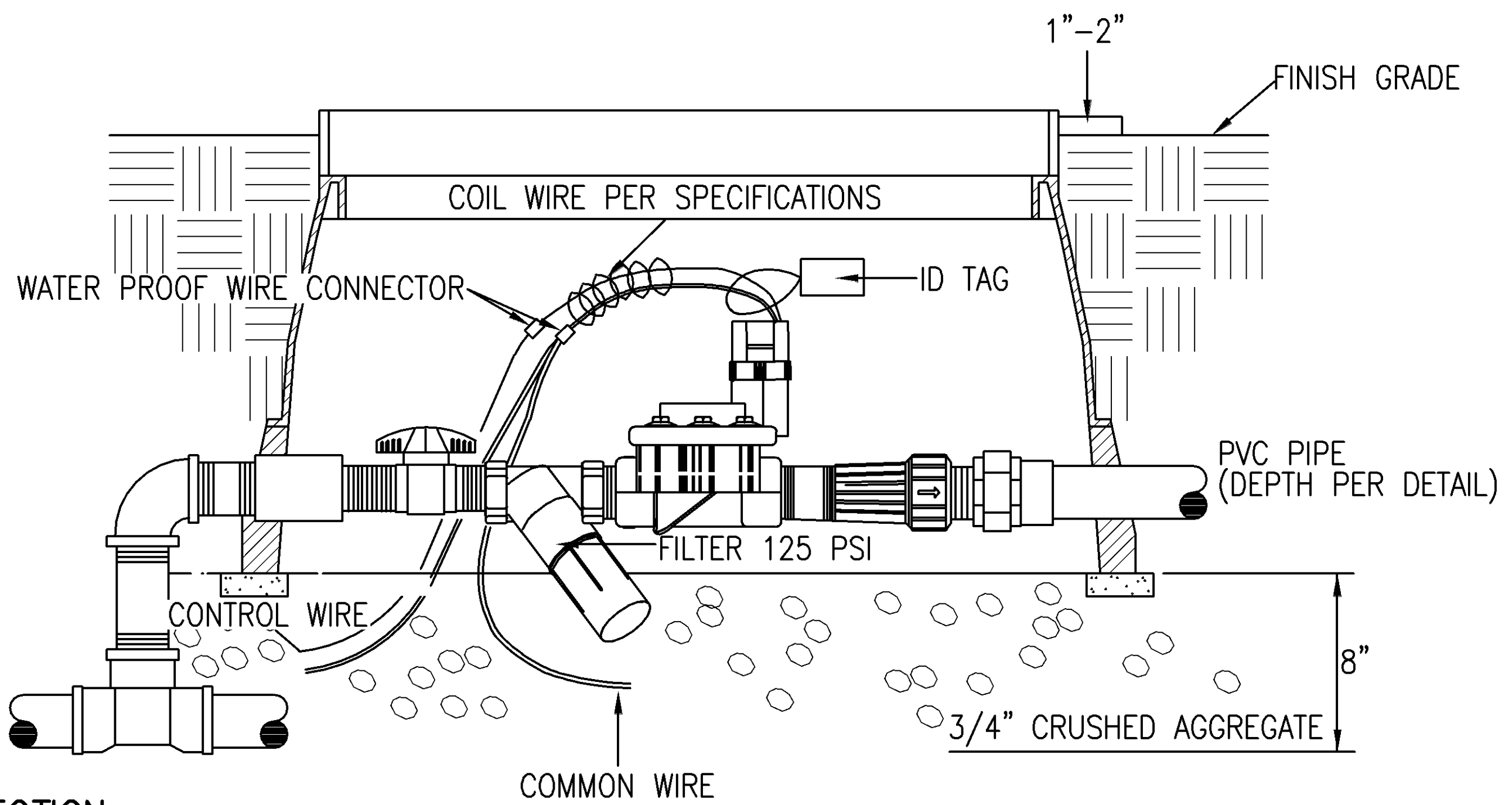
DATE

QUICK COUPLING
VALVE

1018



BRAND VALVE STATION ON LID



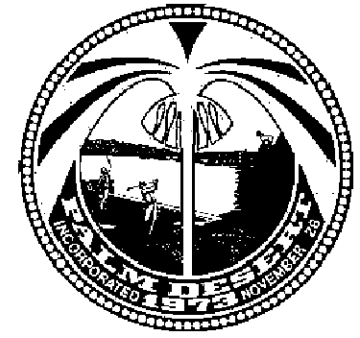
SECTION

NOTES:

- RECTANGULAR VALVE BOX W/GREEN BOLT DOWN COVER IN TURF AND TAN IN SHRUB BEDS
- BRAND VALVE STATION NO. ON LID IN 2" HIGH CHARACTERS
- 12" X 18" RECTANGULAR VALVE BOX
- FILTER MUST WITHSTAND 125 PSI
- IF A SPECIFIC MANUFACTURER'S ASSEMBLY IS SPECIFIED, FOLLOW THAT MANUFACTURER'S SPECIFICATIONS
- (2) BRICKS FOR SUPPORT

N.T.S.

CITY OF PALM DESERT



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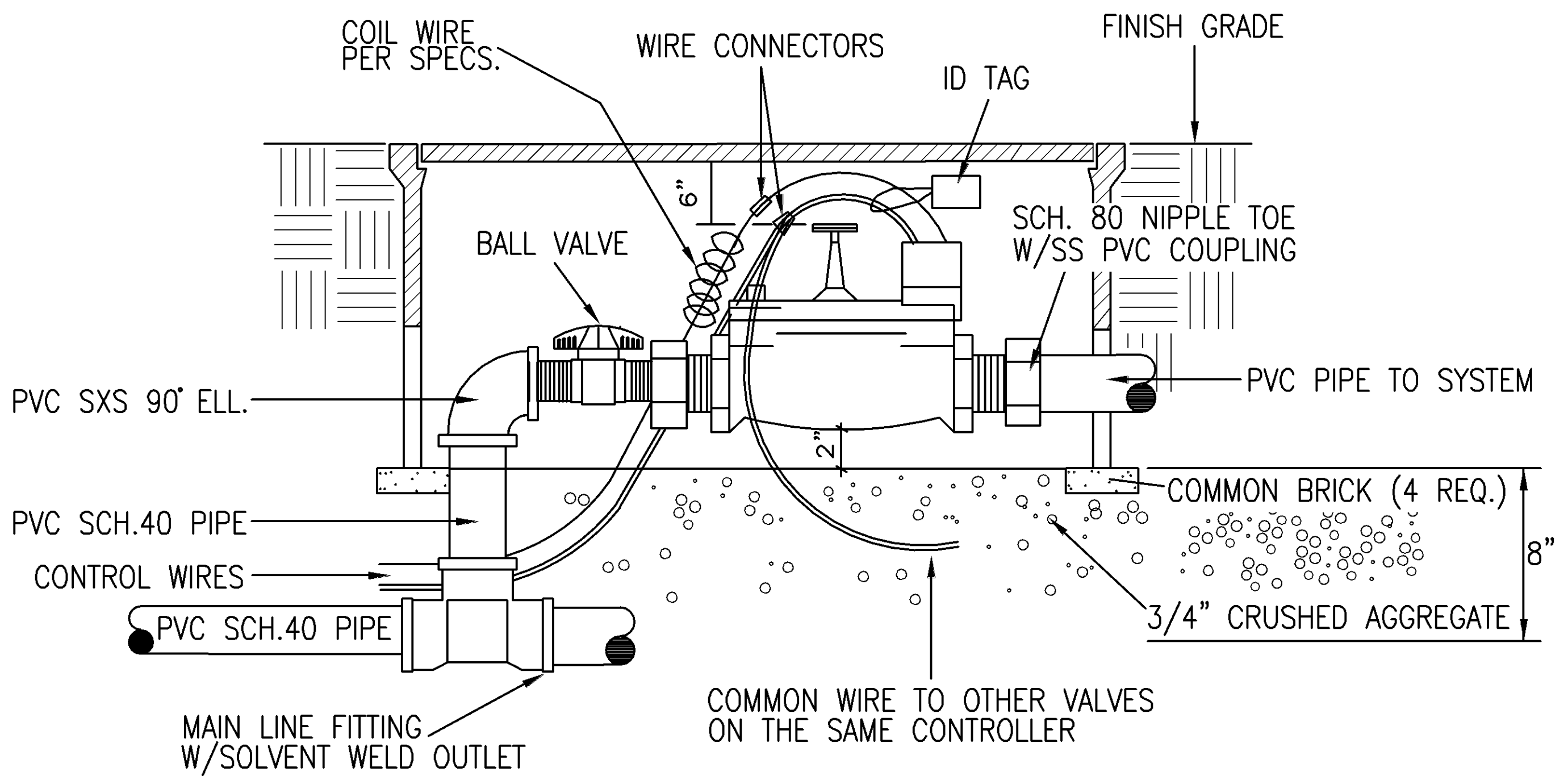
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DEPARTMENT OF PUBLIC WORKS

ELECTRIC CONTROL VALVE (DRIP)

STD NO.

1019



NOTES:

RAIN BIRD BG SERIES ELEC. CONTROL VALVE
OR APPROVED EQUAL

RECTANGULAR VALVE BOX W/GREEN BOLT DOWN COVER
TURF AND TAN IN SHRUB BEDS
HEAT VALVE STATION
NO. ON LID 2" HIGH CHARACTERS

ALL CONNECTORS TO BE WATERPROOF

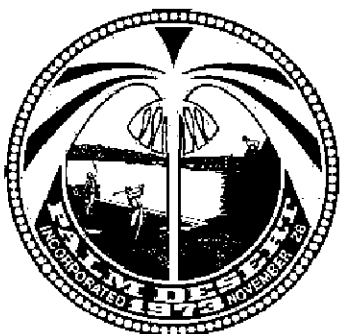
TOP OF BOX TO BE FLUSH IN TURF AREA
1"-2" ABOVE FG IN SHRUB AREAS

ANGLE PIPE TO SPECIFIED DEPTH
W/45° ELLS.

BALL VALVE MUST BE INSIDE BOX
IF BALL VALVE OUTSIDE
IT MUST BE ENCASED IN A SEPARATE BOX

N.T.S.

CITY OF PALM DESERT



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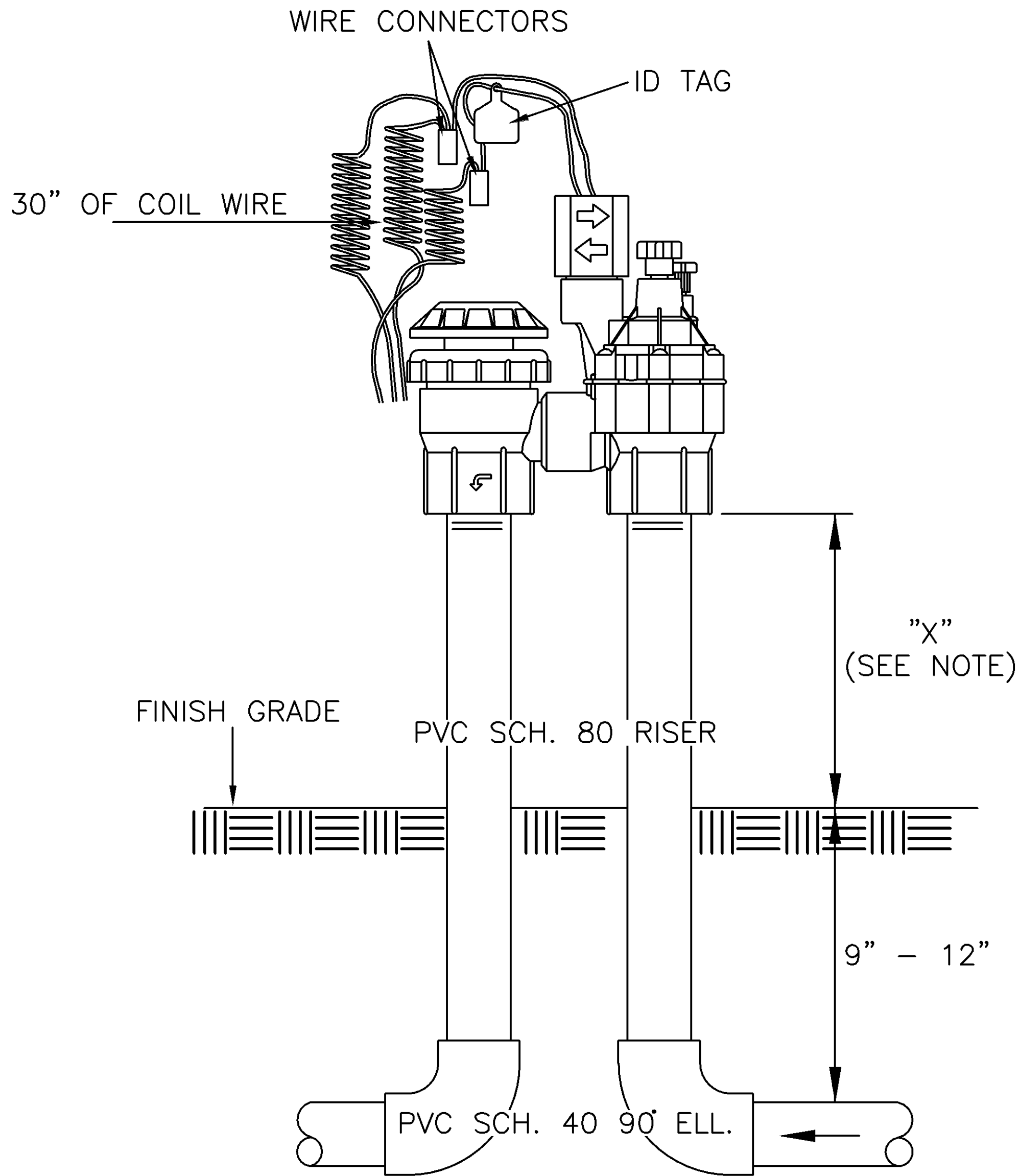
DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

ELECTRIC CONTROL
VALVE (TURF)

1020



NOTES:

REMOTE CONTROL VALVE

FULL PORT BALL VALVE
MUST BE LOCATED AT
MANIFOLD IN 10" ROUND VALVE BOX

"X" = BOTTOM OF VALVE MUST BE 12"
HIGHER THAN THE HIGHEST SPRINKLER HEAD

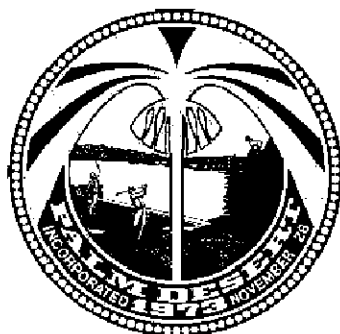
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CITY OF PALM DESERT

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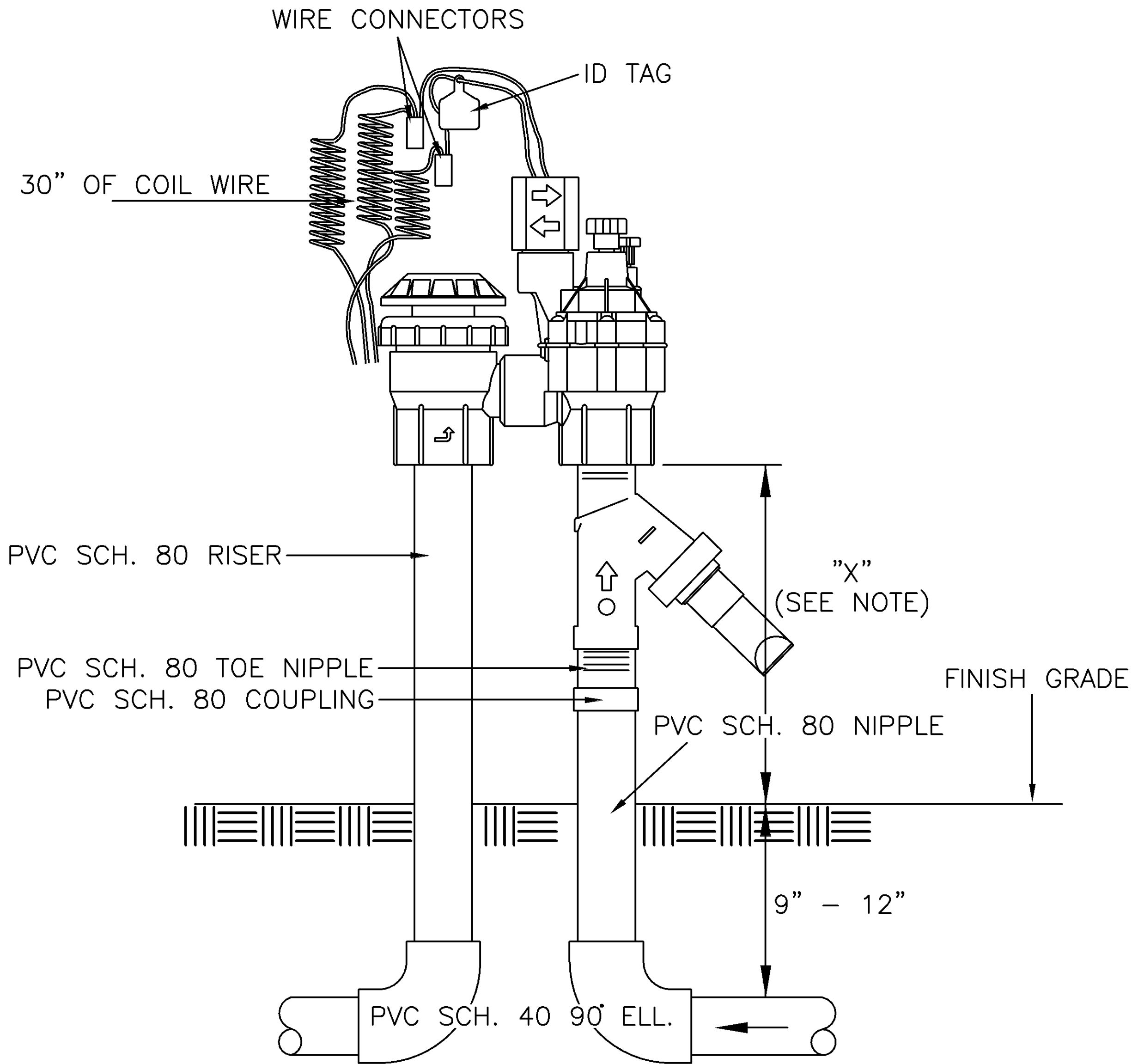


CITY ENGINEER

DATE

TYPICAL ELECTRIC
CONTROL VALVE

1021



NOTES:

CONTROL ZONE KIT
 (INCLUDES LOW FLOW ANTI SIPHON VALVE)
 BACK FLUSH PRESSURE REGULATING FILTER,
 FILTER MUST WITHSTAND 125 PSI

FULL PORT BALL VALVE
 MUST BE LOCATED AT
 MANIFOLD IN 10" ROUND VALVE BOX

"X" = BOTTOM OF VALVE MUST BE 12"
 HIGHER THAN THE HIGHEST SPRINKLER HEAD

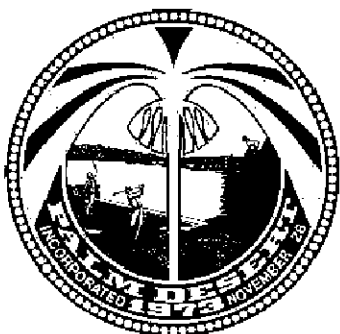
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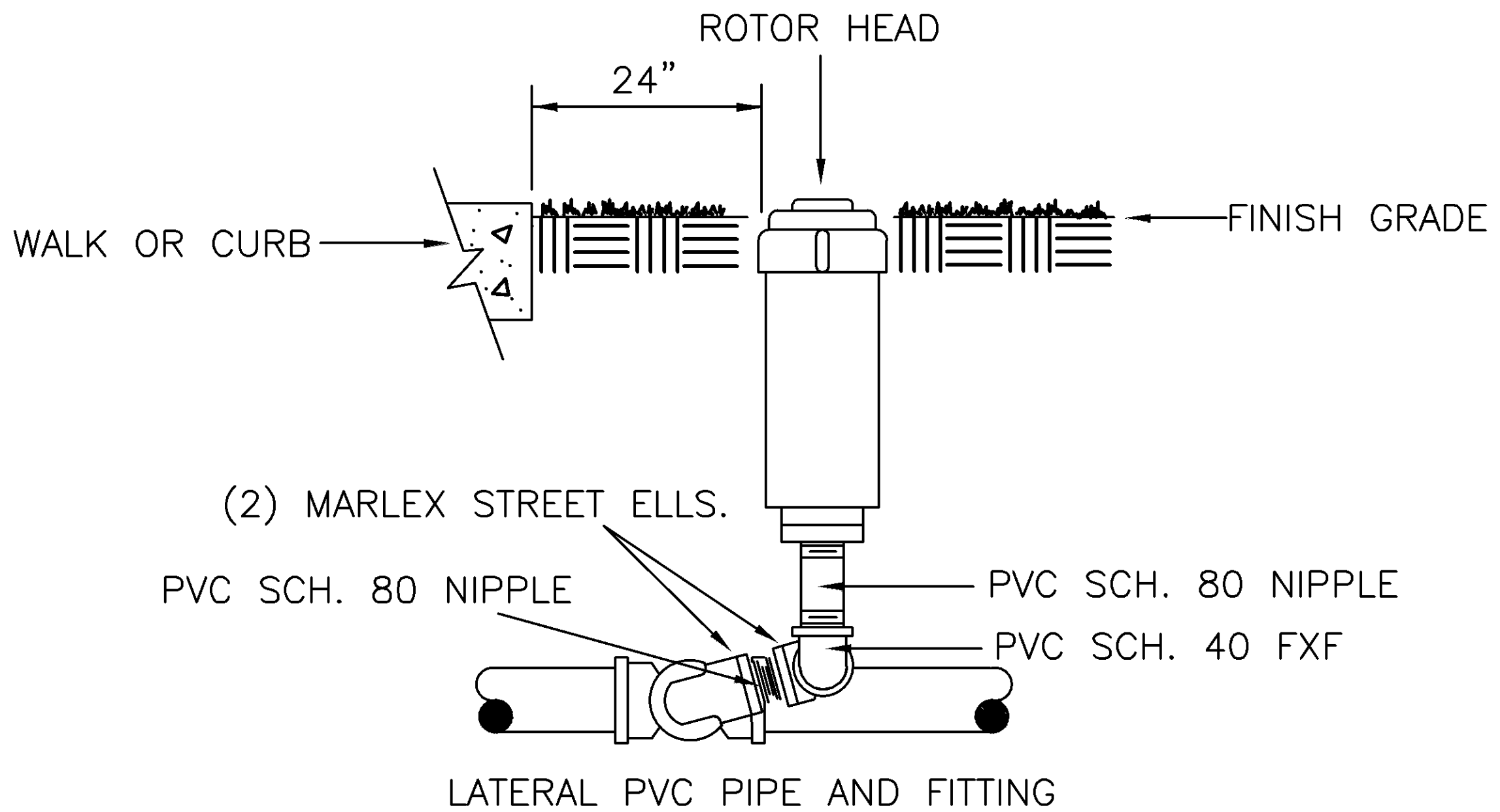


CITY ENGINEER

DATE

TYPICAL XERIGATION
 CONTROL VALVE

1022



NOTES:

SET ROTOR FLUSH WITH FINAL GRADE

PVC SCH. 80 NIPPLE
CUT TO LENGTH AS NEEDED

USE TEFLON TAPE ON ALL MALE PIPE
THREADS

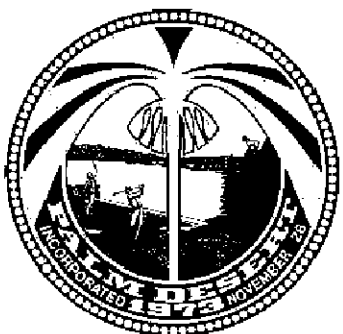
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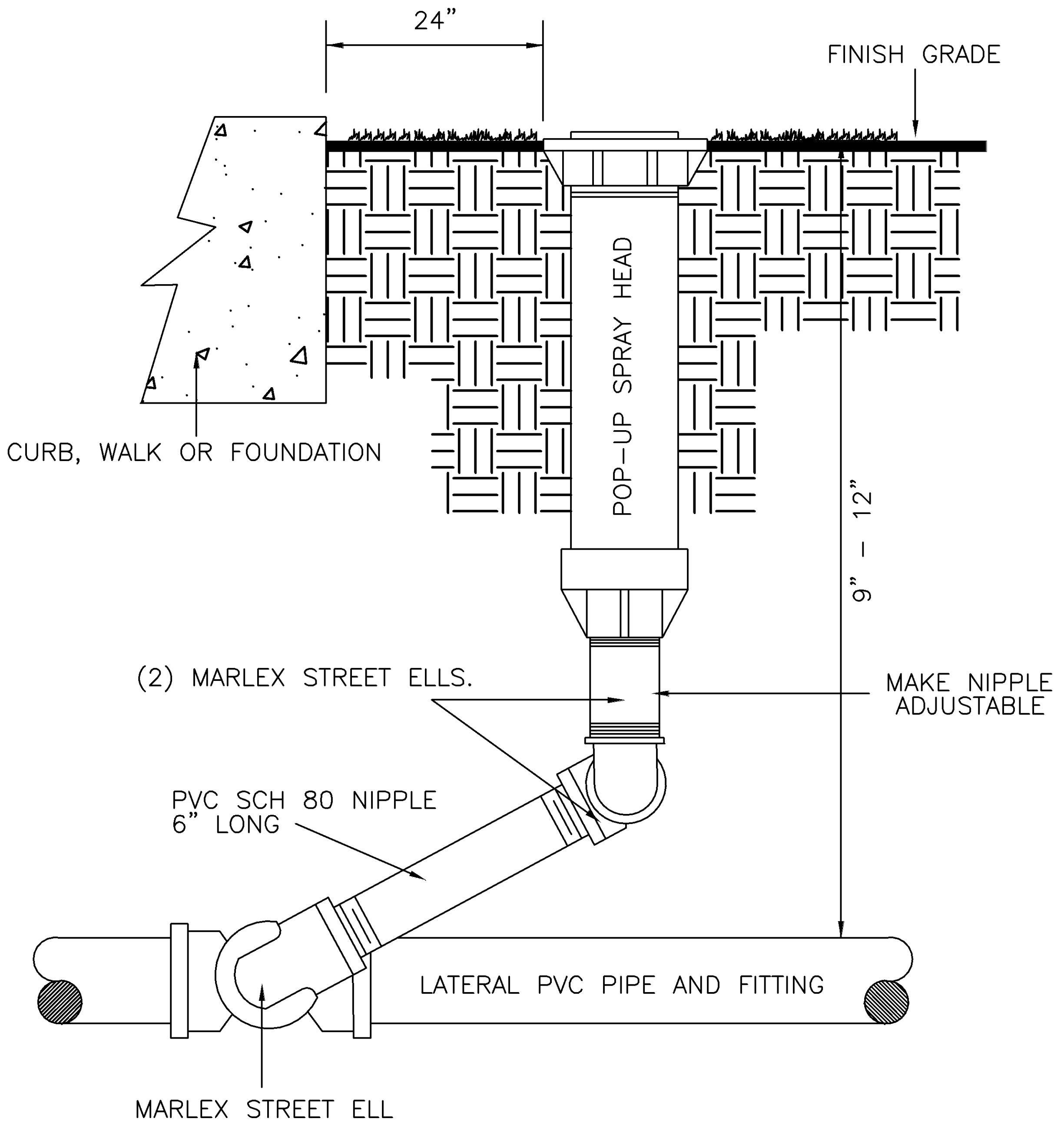


CITY ENGINEER

DATE

ROTOR HEAD
DETAIL

1023



NOTES:

PRE MANUFACTURED SWING JOINT
 MAY BE SUBSTITUTED UPON APPROVAL
 BY THE CITY OF PALM DESERT

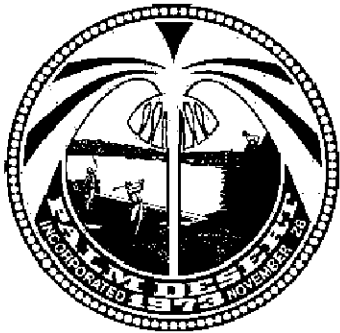
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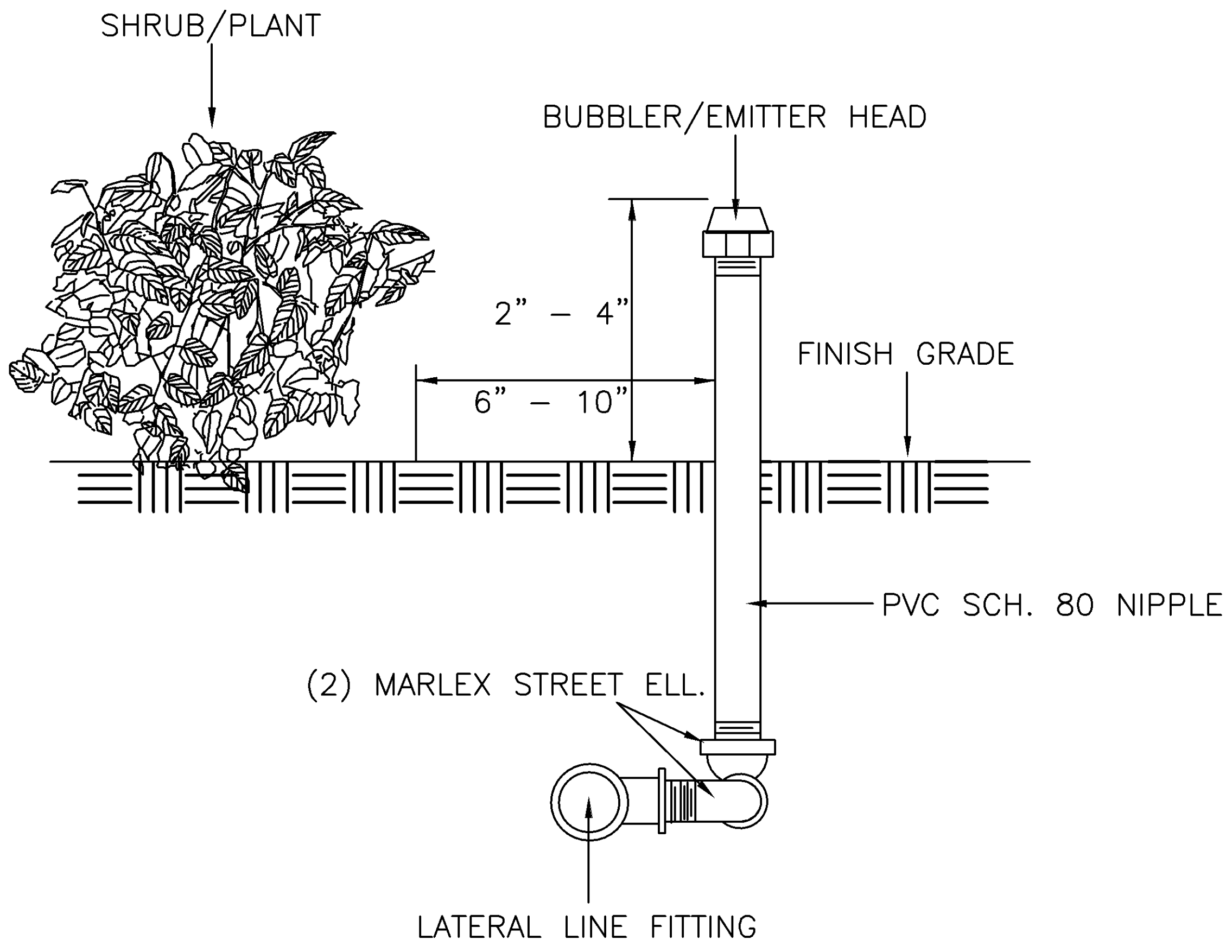


 CITY ENGINEER

 DATE

TURF SPRAY
 DETAIL

1024



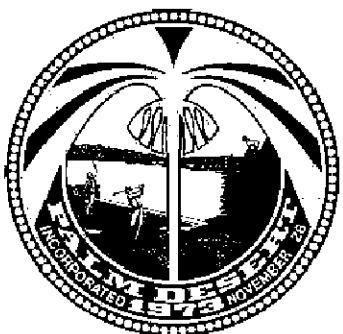
NOTES:

HEADS 2" TO 4" ABOVE FINAL GRADE

EMITTER TO BE 6" TO 10" AWAY FROM
EDGE OF ROOTBALL OR PLANTS/SHRUBS
ON HIGH SIDE OF PLANT

N.T.S.

CITY OF PALM DESERT



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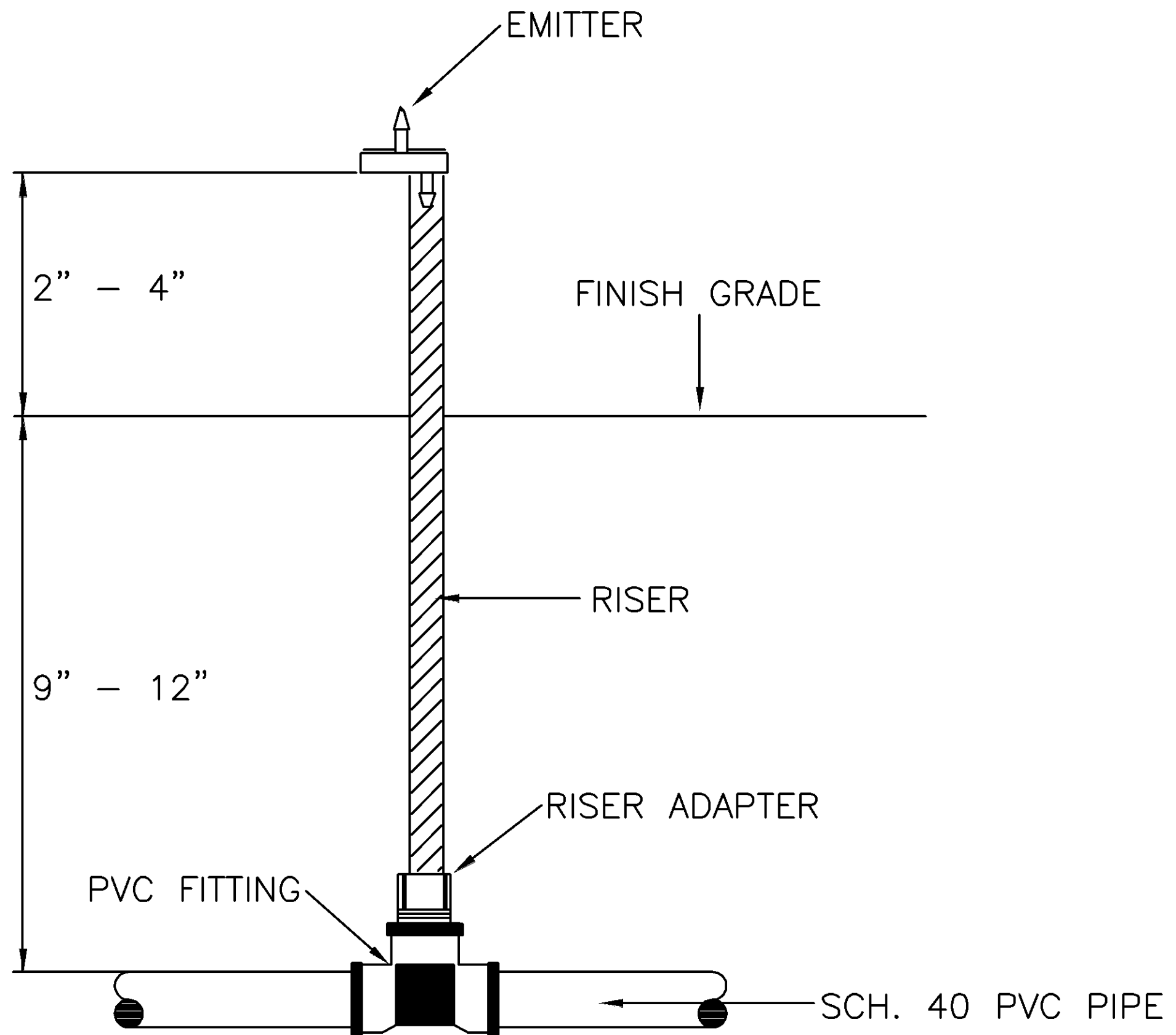
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DEPARTMENT OF PUBLIC WORKS

BUBBLER/EMITTER
DETAIL

STD NO.

1025



NOTES:

POLY FLEX RISER 1/4"

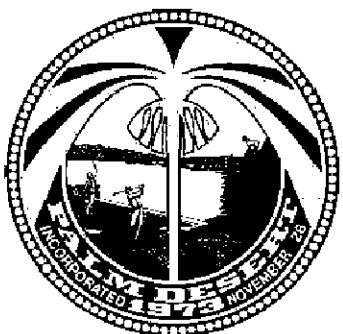
EMITTER TO HAVE DIFFUSER CAP IF NEEDED
OR APPROVED EQUAL W/POLY FLEX RISER ADAPTER

PVC FITTING (S X S X 1/2" FIPT.)

PVC PIPE (DEPTH PER SPECIFICATIONS)

N.T.S.

CITY OF PALM DESERT



APPROVED BY:

CITY ENGINEER

DATE

DEPARTMENT OF PUBLIC WORKS

STD NO.

DRIP EMITTER
DETAIL

1026

DRIP ZONE

FLUSH VALVE

DRIP LATERAL
PVC CLASS 315 PIPE

BOUNDARY FOR
DRIP VALVE ZONE

NOTES:

ELECTRIC CONTROL VALVE ASSEMBLY
(DETAIL TO BE USED AS AN EXAMPLE ONLY)

(SEE NOTE)

MAINLINE

SHRUB EMITTER DETAIL (TYPICAL)

BACKBONE LATERAL
PVC CLASS 200 PIPE

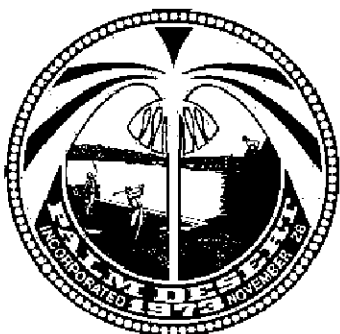
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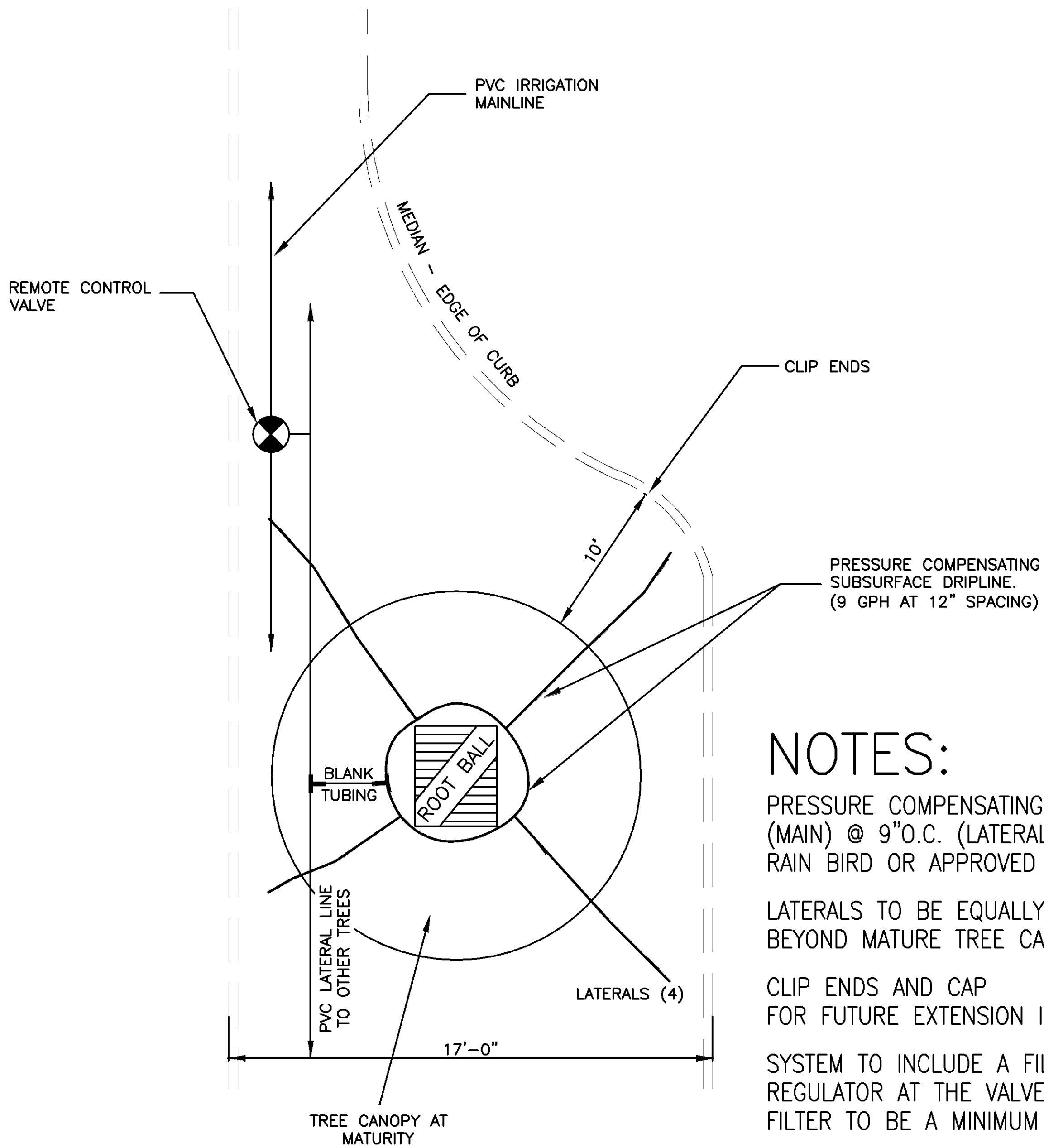


CITY ENGINEER

DATE

DRIP ZONE
DETAIL

1027



NOTES:

PRESSURE COMPENSATING INLINE EMITTER (MAIN) @ 9"O.C. (LATERAL) @ 9"O.C. RAIN BIRD OR APPROVED EQUAL

LATERALS TO BE EQUALLY SPACED 10'FT. BEYOND MATURE TREE CANOPY (4) TOTAL

CLIP ENDS AND CAP FOR FUTURE EXTENSION IF NECESSARY

SYSTEM TO INCLUDE A FILTER AND PRESSURE REGULATOR AT THE VALVE
 FILTER TO BE A MINIMUM OF 120 MESH

AIR/VACUUM RELIEF VALVE KIT TO BE INSTALLED
 INSTALLATION OF RELIEF VALVE KIT IS TO BE BELOW 50:1

FLUSH CAP AT LATERAL AND FURTHEST FROM PVC CONNECTION

DRIPLINE OPERATION INDICATOR PER VALVE RUN

USE TIE DOWN STAKES AT EACH CHANGE IN DIRECTION

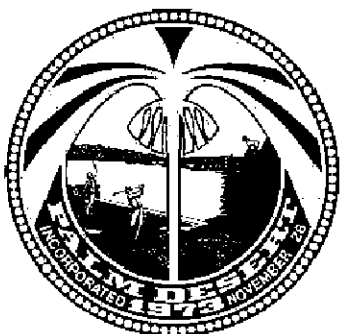
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CITY OF PALM DESERT

APPROVED BY:

DEPARTMENT OF PUBLIC WORKS

STD NO.



CITY ENGINEER

DATE

TREE EMITTER

1028