

**CITY OF PEORIA SUPPLEMENT  
TO  
MARICOPA ASSOCIATION OF GOVERNMENTS  
UNIFORM STANDARD DETAILS**



**CONSTRUCTION  
DEVELOPMENT AND ENGINEERING DEPARTMENT**

**2019**

**000 SERIES**  
**TRAFFIC ENGINEERING**

<u>Detail Number</u>	<u>Title</u>
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PE-010-5B	CUL-DE-SAC—OFFSET
PE-010-5C	KNUCKLE
PE-021	ARROW & BIKE SYMBOLS
PE-022	CROSSWALK AND STOP LINE
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PE-023-2	RIGHT TURN DROP LANES
PE-024-1	STANDARD LEFT TURN LAYOUT
PE-024-2	DUAL LEFT TURN STRIPING LAYOUT
PE-025	TYPICAL MEDIAN NOSE MARKINGS
PE-030-1	TURN DIVERTERS—RIGHT IN/RIGHT OUT
PE-030-2	TURN DIVERTERS—RIGHT IN/FULL ACCESS OUT
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<u>Detail Number</u>	<u>Title</u>
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PE-210-3B	SPEED CUSHION
<del>PE-210-3C</del>	<del>SPEED CUSHION PAVEMENT MARKINGS</del> <b>DELETED</b>
PE-211	TRENCH PLATING
<del>PE-241-2</del>	<del>STANDARD CURB RAMP (SLOPES)</del> <b>DELETED</b>
<del>PE-241-3</del>	<del>STANDARD DUAL CURB RAMP (DIMENSIONS)</del> <b>DELETED</b>
<del>PE-241-4</del>	<del>STANDARD DUAL CURB RAMP (DIMENSIONS)</del> <b>DELETED</b>
<del>PE-241-5A</del>	<del>STANDARD SINGLE CURB RAMP (DIMENSION)</del> <b>DELETED</b>
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<del>PE-241-5C</del>	<del>STANDARD SINGLE CURB RAMP (DIMENSION)</del> <b>DELETED</b>
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<del>PE-241-7</del>	<del>STANDARD SINGLE CURB RAMP (DIMENSION)</del> <b>DELETED</b>
<del>PE-241-8</del>	<del>COMPACT RAMP (SLOPES)</del> <b>DELETED</b>
<del>PE-241-9</del>	<del>COMPACT DUAL CURB RAMP (DIMENSIONS)</del> <b>DELETED</b>
<del>PE-241-10</del>	<del>COMPACT SINGLE CURB RAMP (SLOPES)</del> <b>DELETED</b>
<del>PE-241-11</del>	<del>COMPACT SINGLE CURB RAMP (DIMENSION)</del> <b>DELETED</b>
<del>PE-241-12</del>	<del>COMPACT DUAL CURB RAMP (DIMENSIONS) FOR STREETS WITH 4" CURB</del> <b>DELETED</b>
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PE-251-3	DRIVEWAY CRITERIA
PE-270	WATER VALVE ADJUSTMENT
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Detail Number \_\_\_\_\_ Title \_\_\_\_\_

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PE-353	CROSS CONNECTION CONTROL, 3-INCH & LARGER LEAD FREE DOUBLE CHECK VALVE ASSEMBLY
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PE-371	WATER QUALITY SAMPLING STATION
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**300 SERIES**

**WATER INFORMATION-Continued**

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**SEWER INFORMATION**

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REQUIREMENTS  
PE-451 TYPICAL GREASE TRAP REQUIREMENTS

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**IRRIGATION AND STORM DRAIN INFORMATION**

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PE-559-1 STORM DRAIN INLET MARKER  
PE-559-2 STORM DRAIN INLET MARKER ON CATCH  
BASIN/SCUPPER  
PE-559-3 STORM DRAIN INLET MARKER ON HEADWALL

**700 SERIES**

**LANDSCAPING**

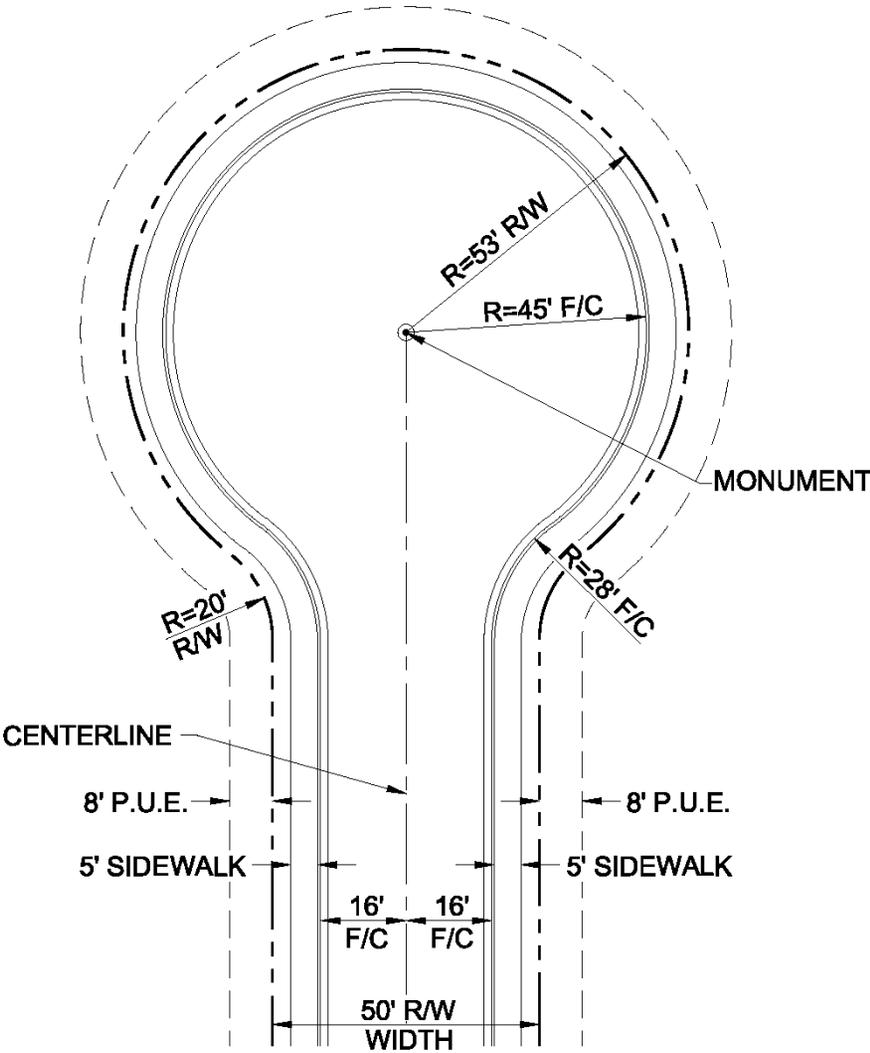
PE-701 SINGLE TRUNK TREE PLANTING  
PE-702 MULTI-TRUNK TREE PLANTING  
PE-703 IMPERMEABLE SOILS TREE PLANTING  
PE-704 TREE STAKING  
PE-705 SHRUB AND GROUND COVER PLANTING  
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PE-707 OCOTILLO PLANTING  
PE-708 SAGUARO PLANTING  
PE-720 PLANT PROTECTION ZONES  
PE-721 PROTECTIVE FENCING  
PE-722 ROCK MULCHING  
PE-723 ROCK AND ORGANIC MULCH  
PE-724 BOULDER PLACEMENT



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**NOTES:**

- 1. ALL DIMENSIONS SHOWN ARE CITY STANDARDS. NO MODIFICATIONS UNLESS APPROVED BY CITY ENGINEER.



**CITY OF PEORIA STANDARD DETAIL - PE-010-5A  
Cul-de-Sac**

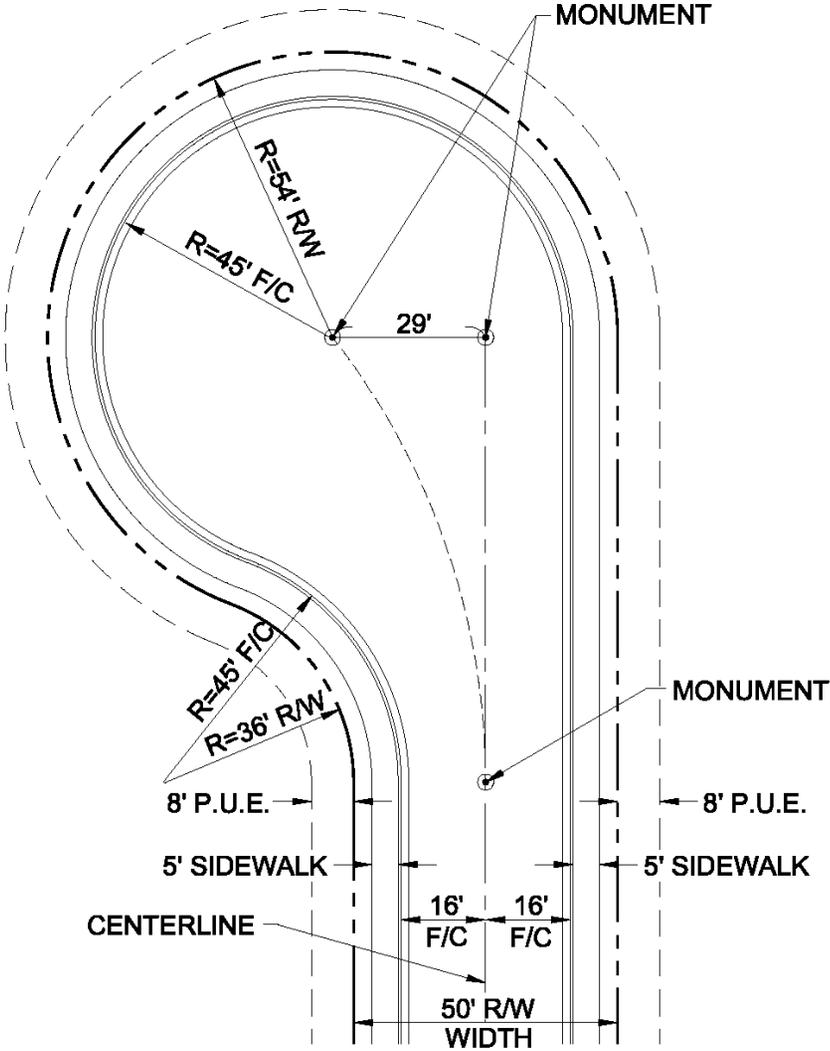


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**NOTES:**

- 1. ALL DIMENSIONS SHOWN ARE CITY STANDARDS. NO MODIFICATIONS UNLESS APPROVED BY CITY ENGINEER.



**CITY OF PEORIA STANDARD DETAIL - PE-010-5B**  
**Cul-de-Sac—Offset**

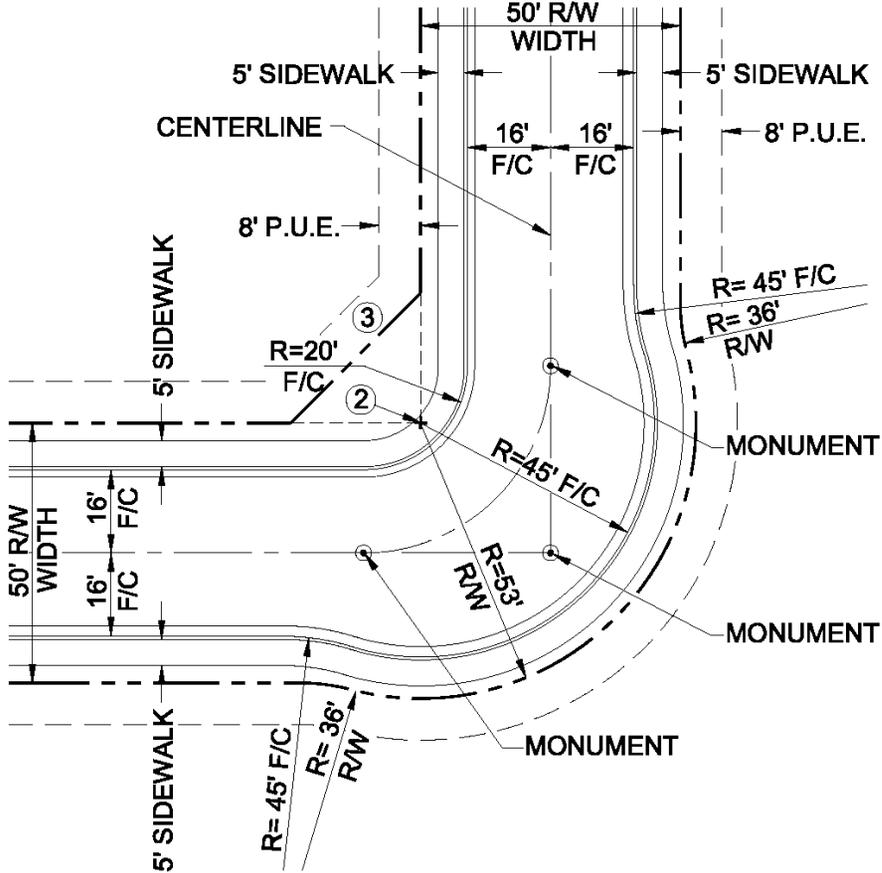


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**NOTES:**

1. ALL DIMENSIONS SHOWN ARE CITY STANDARDS. NO MODIFICATIONS UNLESS APPROVED BY CITY ENGINEER.
2. KNUCKLE RADIUS POINT IS TAKEN FROM THE INTERSECTION OF THE RIGHT-OF-WAY.
3. RIGHT-OF-WAY CHAMFER IS PER THE FINAL PLAT.
4. KNUCKLES ARE ALLOWED ON LOCAL STREETS ONLY.

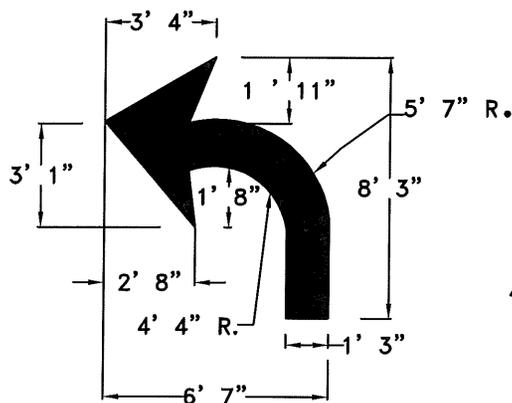


**CITY OF PEORIA STANDARD DETAIL - PE-010-5C**  
**Knuckle**

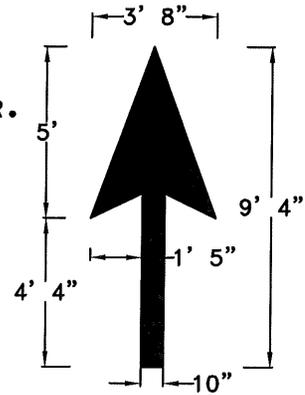


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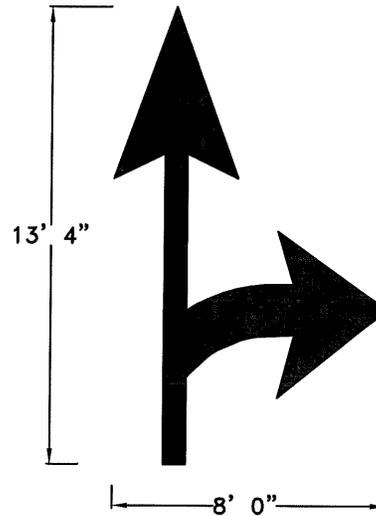
THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



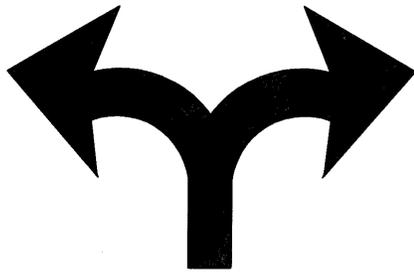
TURN LANE-USE ARROW



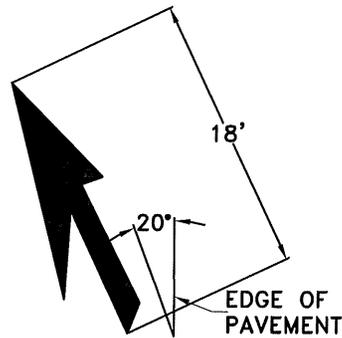
THROUGH LANE-USE ARROW



TURN AND THROUGH LANE-USE ARROW



RIGHT/LEFT TURN LANE-USE ARROW



LANE-REDUCTION ARROW



BIKE SYMBOL



SCHOOL LEGEND

**NOTES:**

1. WORD SYMBOL AND OTHER LEGEND MARKINGS SHALL BE INSTALLED IN 3M STAMARK PAVEMENT MARKING TAPE.
2. BIKE SYMBOL SHALL FACE THROUGH TRAVEL LANES.
3. SCHOOL LEGENDS MAY BE INSTALLED AT SCHOOLS ABUTTING ARTERIAL STREETS IF APPROVED BY THE CITY TRAFFIC ENGINEER. IF USED, SCHOOL STENCILS SHALL BE INSTALLED IN CLOSE PROXIMITY TO SCHOOL ADVANCE WARNING SIGNS IN EACH THROUGH LANE ON THE ARTERIAL STREET, INSTALLED IN A 40' STAGGERED PATTERN.

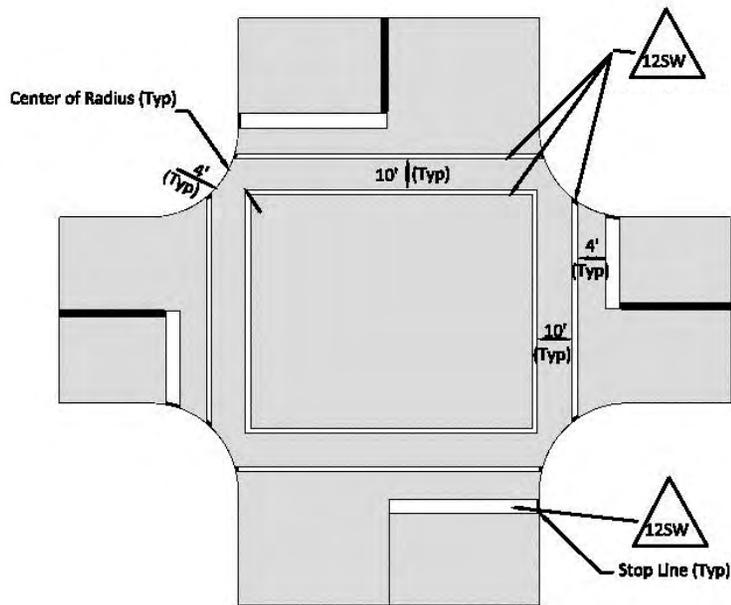


Rev. 02/2018

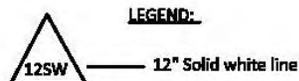
**CITY OF PEORIA STANDARD DETAIL - PE-021**

**Pavement Markings—Arrow & Bike Symbols**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



(For New Installations)  
(N.T.S.)



**NOTES:**

1. MARKED CROSSWALKS AND STOP LINES SHALL BE INSTALLED AT SIGNALIZED INTERSECTIONS THAT INCLUDE PEDESTRIAN SIGNAL INDICATIONS.
2. CROSSWALKS AND/OR STOP LINES SHOULD NOT BE INSTALLED AT UN-SIGNALIZED INTERSECTIONS UNLESS JUSTIFIED BASED UPON ENGINEERING JUDGEMENT AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER.
3. MARKED CROSSWALKS SHALL BE INSTALLED IN 12" SOLID WHITE OR YELLOW (FOR 15 MPH SCHOOL CROSSINGS ONLY) AT 10' WIDTH.
4. AT SIGNALIZED INTERSECTIONS, STOP LINES SHOULD BE INSTALLED 4' IN ADVANCE OF THE MARKED CROSSWALKS.
5. IF USED AT UN-SIGNALIZED INTERSECTIONS WITHOUT MARKED CROSSWALKS, STOP LINES SHOULD BE PLACED AT THE DESIRED STOPPING POINT THAT AFFORDS THE BEST VISIBILITY, BUT SHOULD NOT BE PLACED MORE THAN 30' OR LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTING TRAVELED WAY.
6. LADDER STYLE CROSSWALKS MAY BE INSTALLED AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER AT CROSSINGS WHERE HIGH PEDESTRIAN VOLUMES ARE TYPICAL OR EXPECTED.



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**CITY OF PEORIA STANDARD DETAIL - PE-022**  
**Pavement Markings—Crosswalk and Stop Line Notes**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**NOTES:**

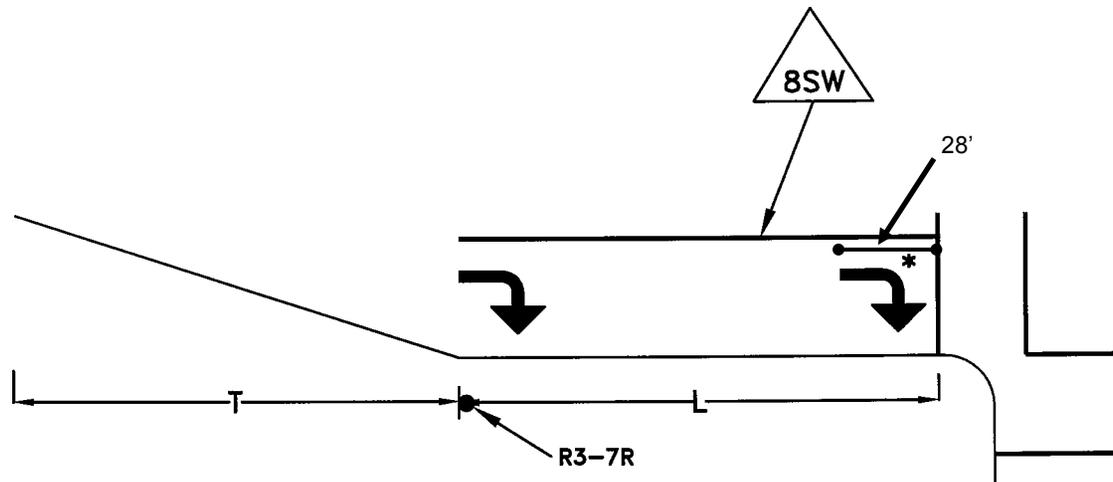
1. TAPER SHALL NOT EXCEED 12:1. 100' TAPER IS TYPICAL FOR A STANDARD 12' TURN LANE.
2. LENGTH TO BE DETERMINED BY ENGINEERING JUDGEMENT AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER. 100'-150' LENGTH IS TYPICAL, BUT SHOULD NOT BE LESS THAN 100', UNLESS APPROVED BY THE CITY TRAFFIC ENGINEER.
3. IF A TURN LANE IS WIDER THAN 18', A CARROT SHALL BE INSTALLED.

**KEY:**

T = TAPER

L = LENGTH

\* = IF A TURN LANE IS LONGER THAN 150', A SECOND ARROW SYMBOL SHALL BE INSTALLED AT THE END OF THE TURN LANE



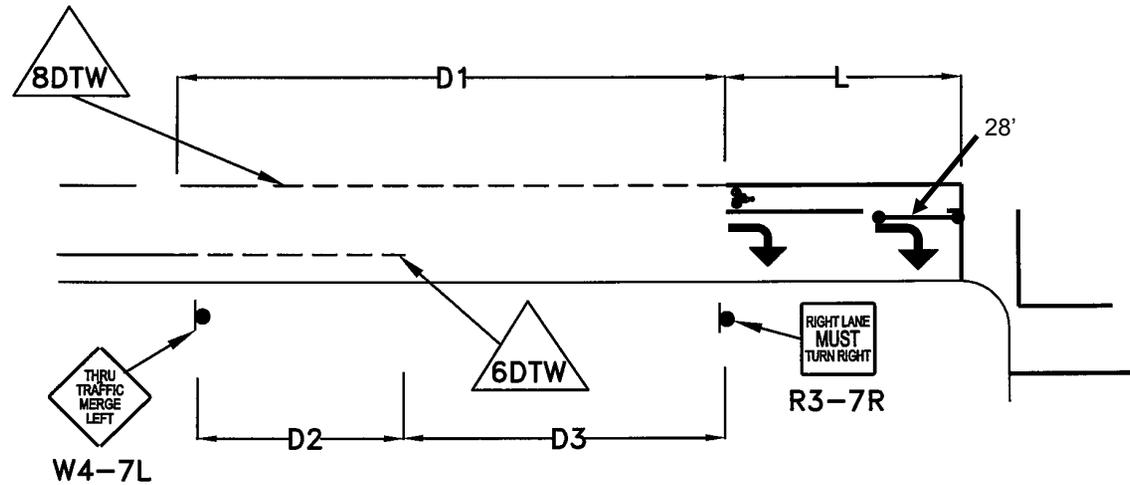
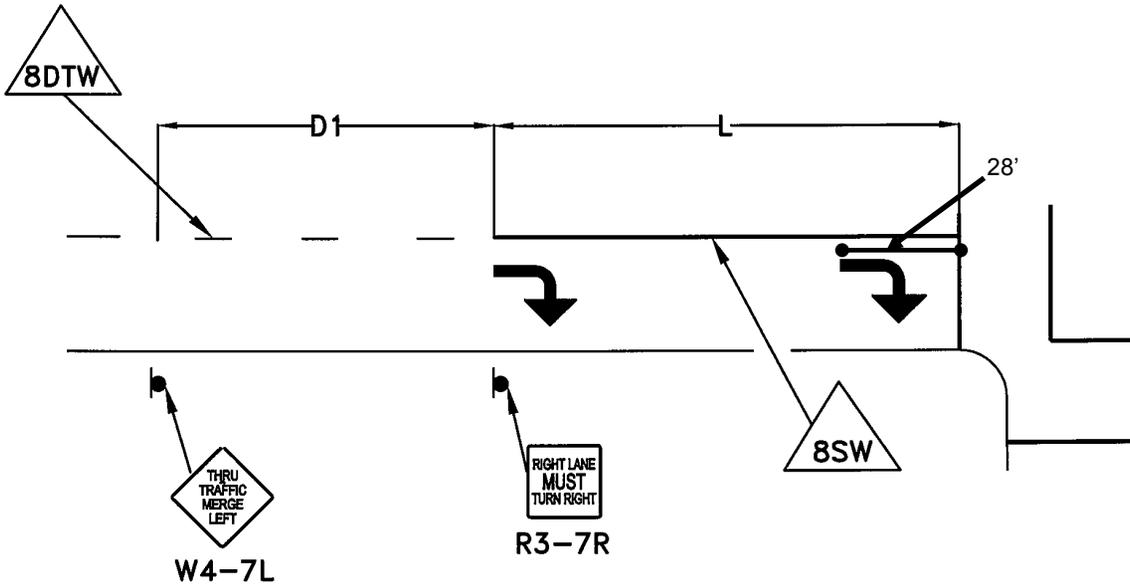
**CITY OF PEORIA STANDARD DETAIL - PE-023-1**

**Right Turn Lanes**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



Rev. 02/2018



**NOTES:**

1. D1 IS DISTANCE NEEDED FOR MOTOR VEHICLES TO MERGE LEFT AND SHALL NOT BE LESS THAN A DISTANCE OF SEVEN TIMES THE POSTED SPEED LIMIT IN FEET.
2. D2 AND D3 IS THE DISTANCE NEEDED FOR BICYCLISTS TO MERGE LEFT AND SHALL BE DETERMINED BY ENGINEERING JUDGEMENT AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER.
3. LENGTH IS TO BE DETERMINED BY ENGINEERING JUDGEMENT AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER. 100'-150' LENGTH IS TYPICAL, BUT SHOULD NOT BE LESS THAN 50' UNLESS APPROVED BY THE CITY TRAFFIC ENGINEER.
4. A SECOND ARROW SYMBOL SHALL BE INSTALLED AT THE END OF ANY TURN DROP LANE, REGARDLESS OF THE LENGTH OF THE LANE.
5. IF A TURN LANE IS WIDER THAN 18', A CARROT SHALL BE INSTALLED.

**KEY:**

D1 = SEE NOTE 1 ABOVE  
 D2 & D3 = SEE NOTE 2 ABOVE  
 L = LENGTH

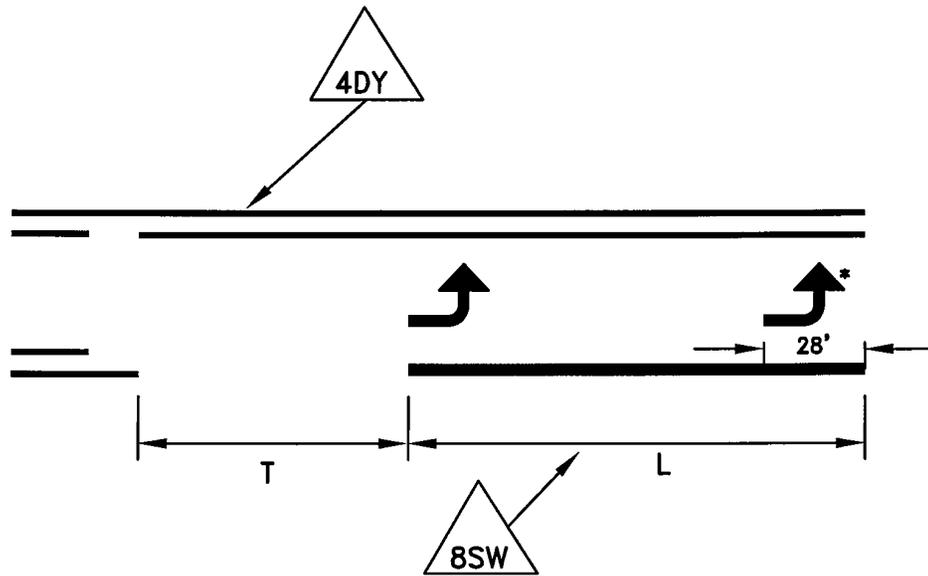
**CITY OF PEORIA STANDARD DETAIL - PE-023-2**

**Right Turn Drop Lanes**



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**NOTES:**

1. TRANSITION OF 100' IS TYPICAL BUT MAY BE INCREASED BASED ON ENGINEERING JUDGEMENT AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER.
2. LENGTH TO BE DETERMINED BY ENGINEERING JUDGEMENT AT THE DIRECTION OF THE CITY TRAFFIC ENGINEER. 100'-150' LENGTH IS TYPICAL BUT SHOULD NOT BE LESS THAN 50' UNLESS APPROVED BY THE CITY TRAFFIC ENGINEER.
3. IF A TURN LANE IS WIDER THAN 18' A CARROT SHALL BE INSTALLED.

**KEY:**

T= TRANSITION—SEE NOTE 1 ABOVE  
 L= LENGTH—SEE NOTE 2 ABOVE  
 \* IF A TURN LANE IS LONGER THAN 150' A SECOND ARROW SYMBOL SHALL BE INSTALLED AT THE END OF THE TURN LANE

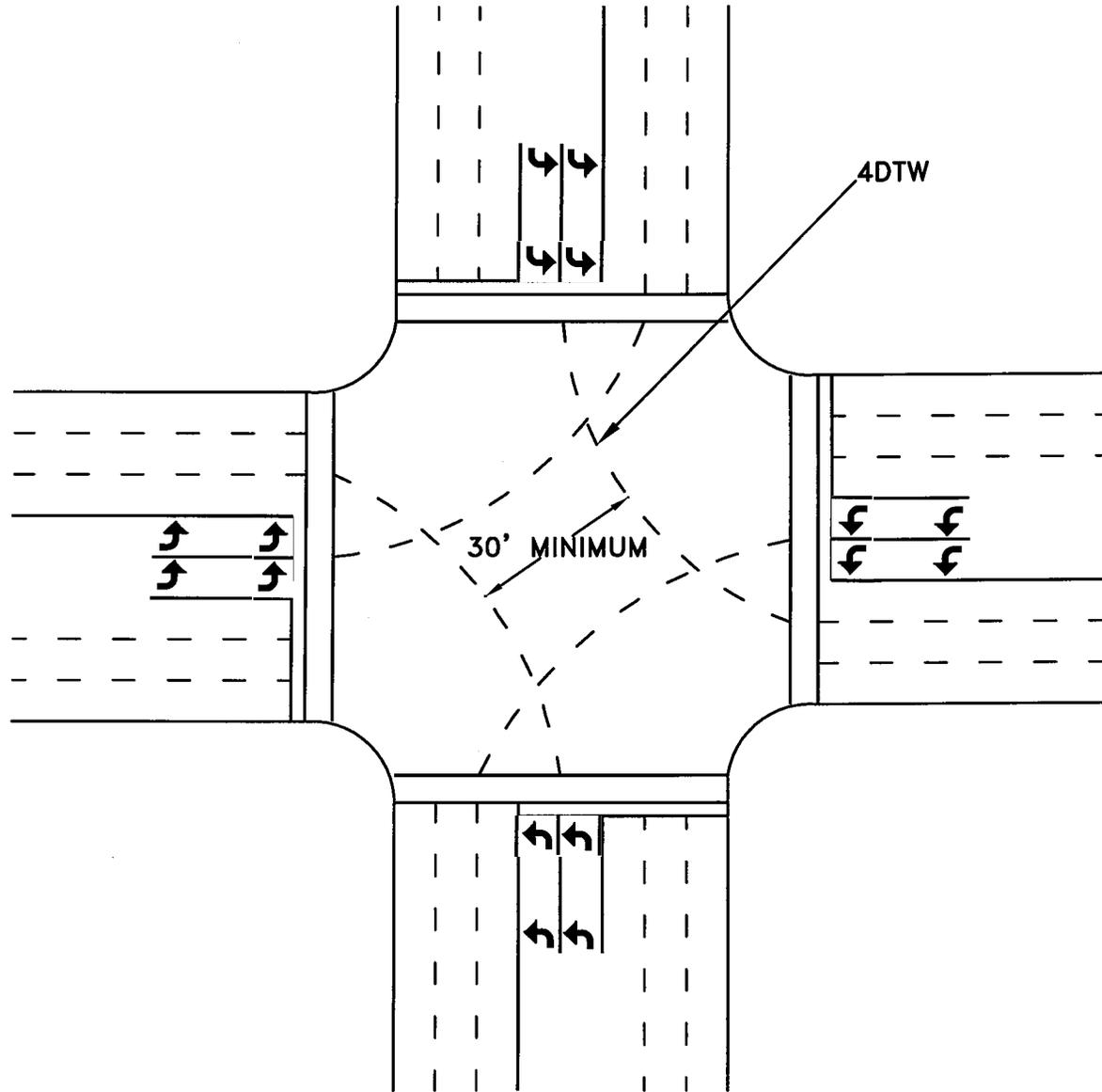
**CITY OF PEORIA STANDARD DETAIL - PE-024-1**

**Standard Left Turn Lane Layout**



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**NOTES:**

1. IF A TURN LANE IS LONGER THAN 150' A SECOND ARROW SYMBOL SHALL BE INSTALLED AT THE END OF THE TURN LANE.

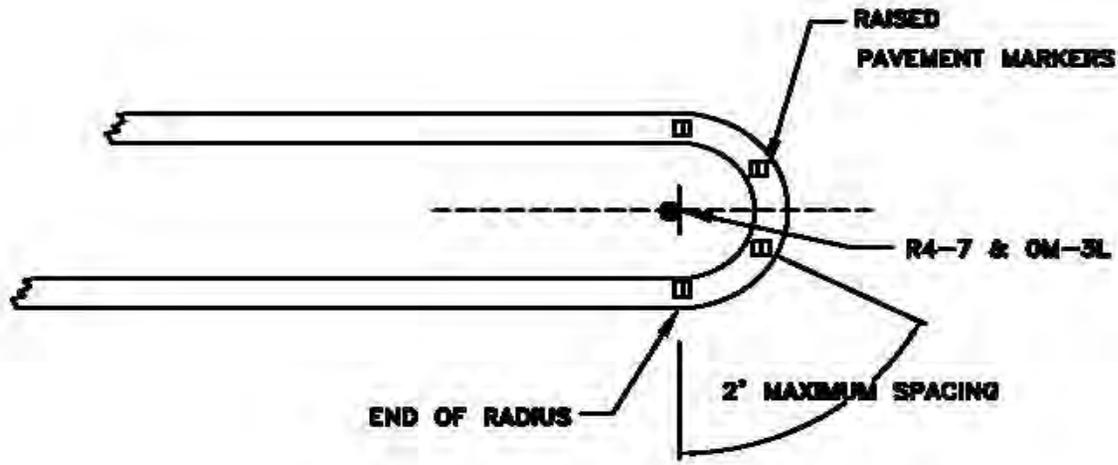
**CITY OF PEORIA STANDARD DETAIL - PE-024-2**

**Dual Left Turn Lane Layout**



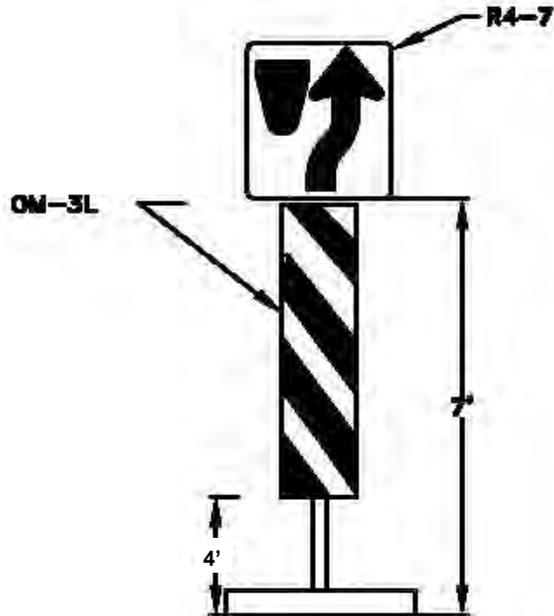
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THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. THE USE OF R4-7 SIGNS SHOULD BE MINIMIZED BY LIMITING INSTALLATION TO THE BEGINNING OF A SERIES OF MEDIANS AND AT MEDIAN BREAKS AT ARTERIAL AND COLLECTOR STREETS.
2. RAISED PAVEMENT MARKERS SHALL BE USED TO PROVIDE ADDITIONAL VISIBILITY TO MEDIAN NOSES. THE RAISED PAVEMENT MARKERS SHALL BE INSTALLED ON THE TOP OF THE CURB, USING EITHER TYPE 'D' OR 'G', DEPENDING ON APPLICATION WITH A MINIMUM QUANTITY OF 4.



**CITY OF PEORIA STANDARD DETAIL - PE-025**

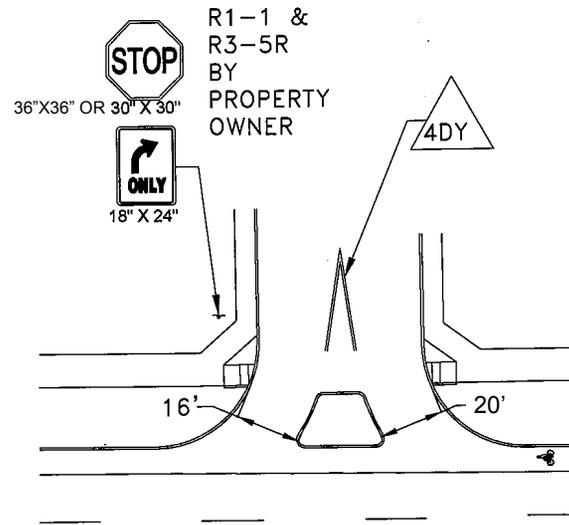
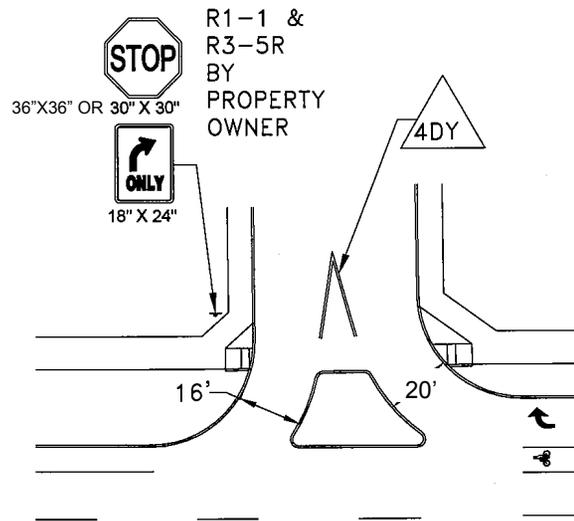
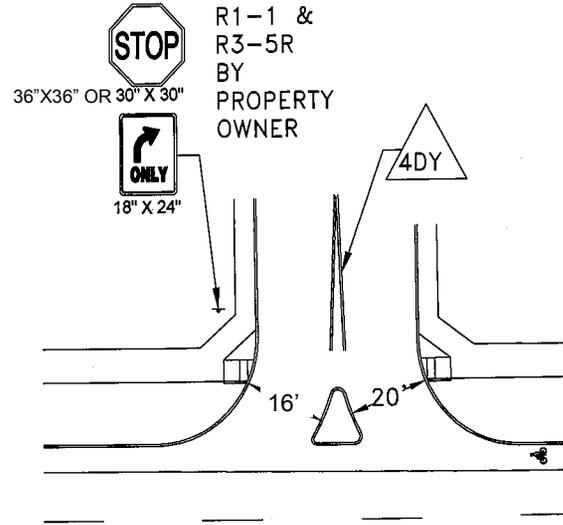
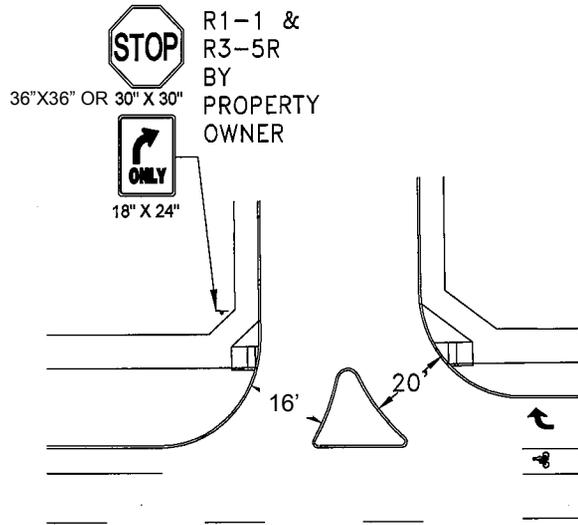
**Typical Median Nose Markings**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



Rev. 01/2019

## TYPICAL TURN DIVERTERS



### NOTES:

1. TURN DIVERTER CURB SHALL BE MAG 220-1 TYPE C AND SHALL BE PAINTED RED.
2. MAY BE USED ON PUBLIC AND PRIVATE STREETS AND PRIVATE DRIVEWAYS, INCLUDING PE-251-1 AND 2 (DELETING RAMPS).
3. ALL APPROACH MEASUREMENTS ARE MINIMUMS.

### CITY OF PEORIA STANDARD DETAIL - PE-030-1

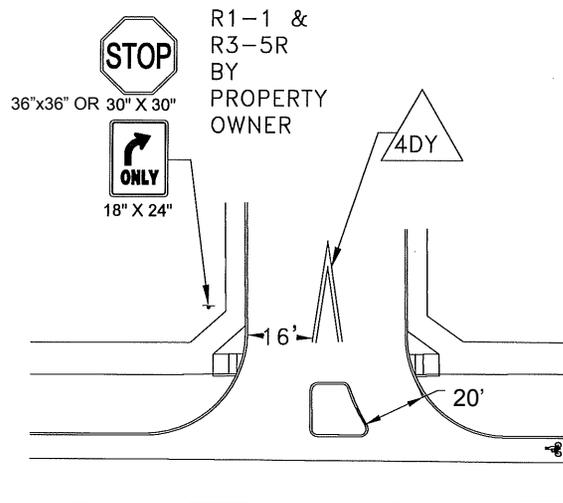
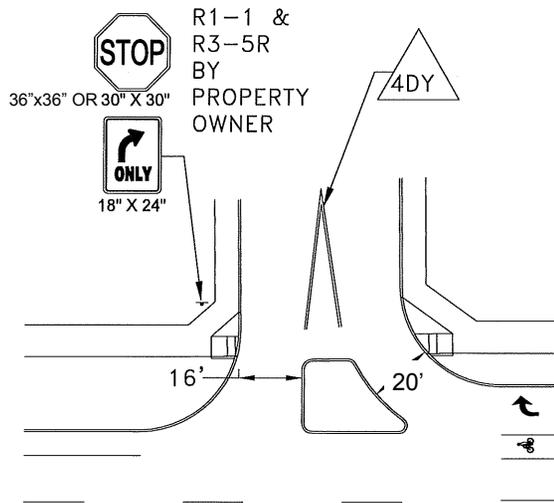
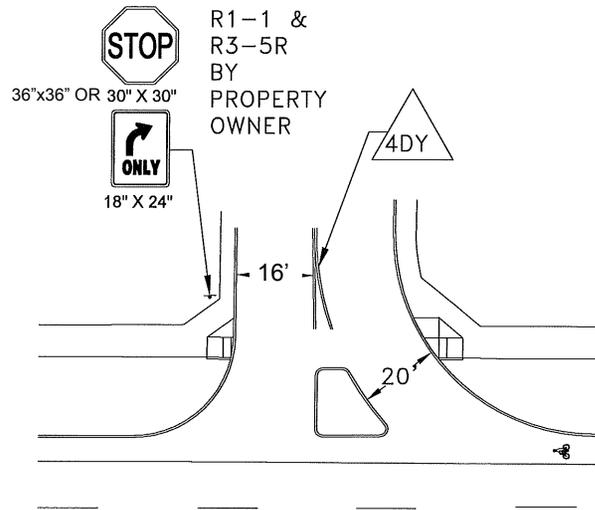
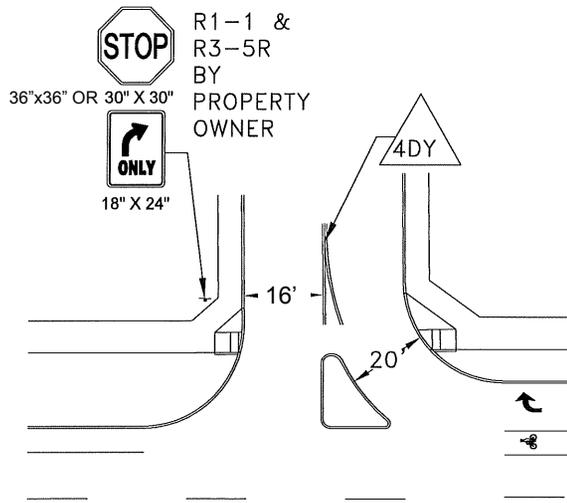
#### Turn Diverters-Right In/Right Out

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Rev. 01/2019

## TYPICAL TURN DIVERTERS



### NOTES:

1. TURN DIVERTER CURB SHALL BE MAG 220-1 TYPE C AND SHALL BE PAINTED RED.
2. MAY BE USED ON PUBLIC AND PRIVATE STREETS AND PRIVATE DRIVEWAYS, INCLUDING PE-251-1 AND 2 (DELETING RAMPS).
3. ALL APPROACH MEASUREMENTS ARE MINIMUMS.



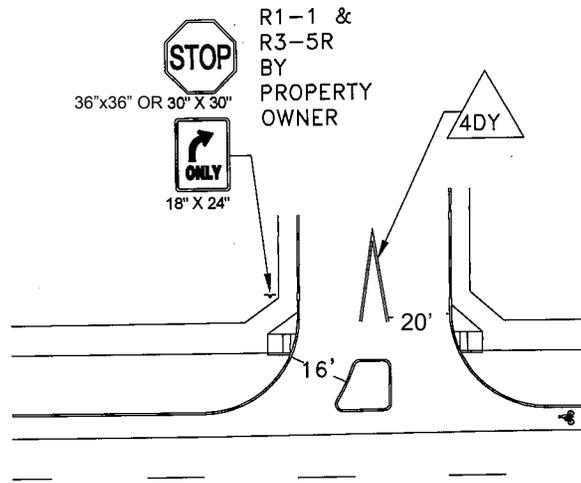
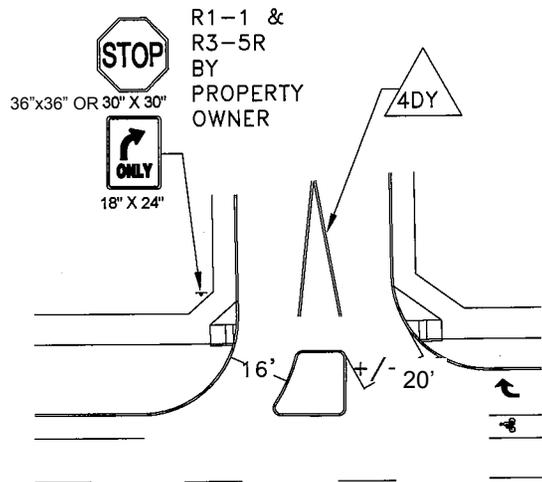
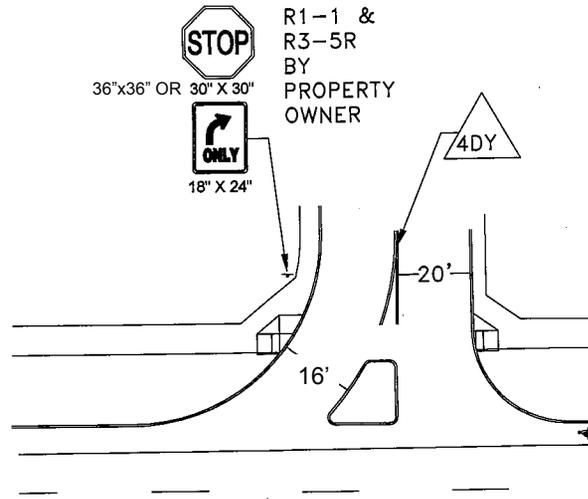
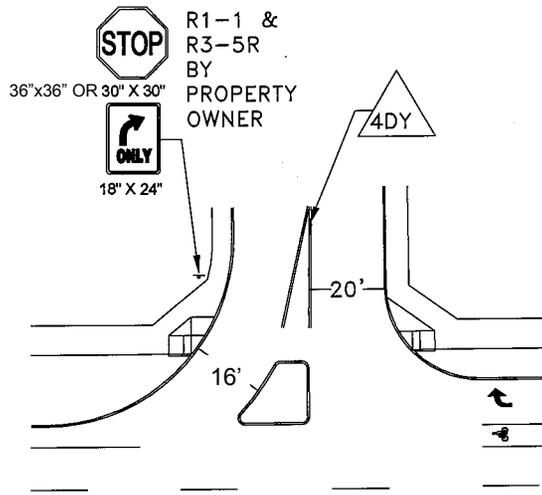
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### CITY OF PEORIA STANDARD DETAIL - PE-030-2

#### Turn Diverters-Right In/Full Access Out

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

## TYPICAL TURN DIVERTERS



### NOTES:

1. TURN DIVERTER CURB SHALL BE MAG 220-1 TYPE C AND SHALL BE PAINTED RED.
2. MAY BE USED ON PUBLIC AND PRIVATE STREETS AND PRIVATE DRIVEWAYS, INCLUDING PE-251-1 AND 2 (DELETING RAMPS).
3. ALL APPROACH MEASUREMENTS ARE MINIMUMS.

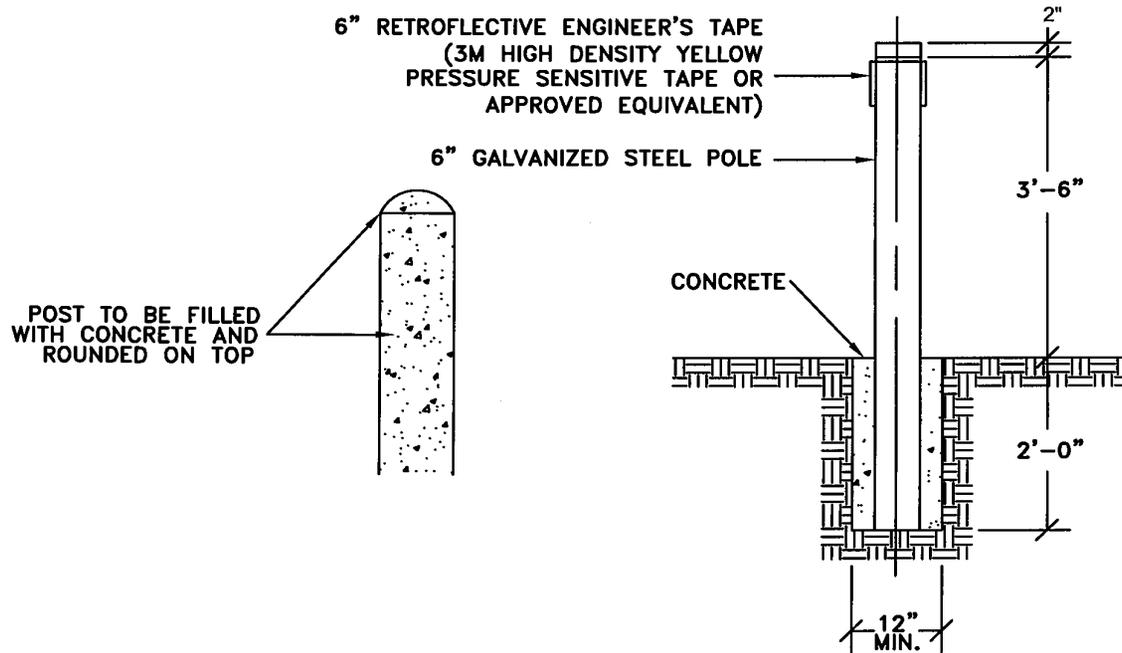


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### CITY OF PEORIA STANDARD DETAIL - PE-030-3

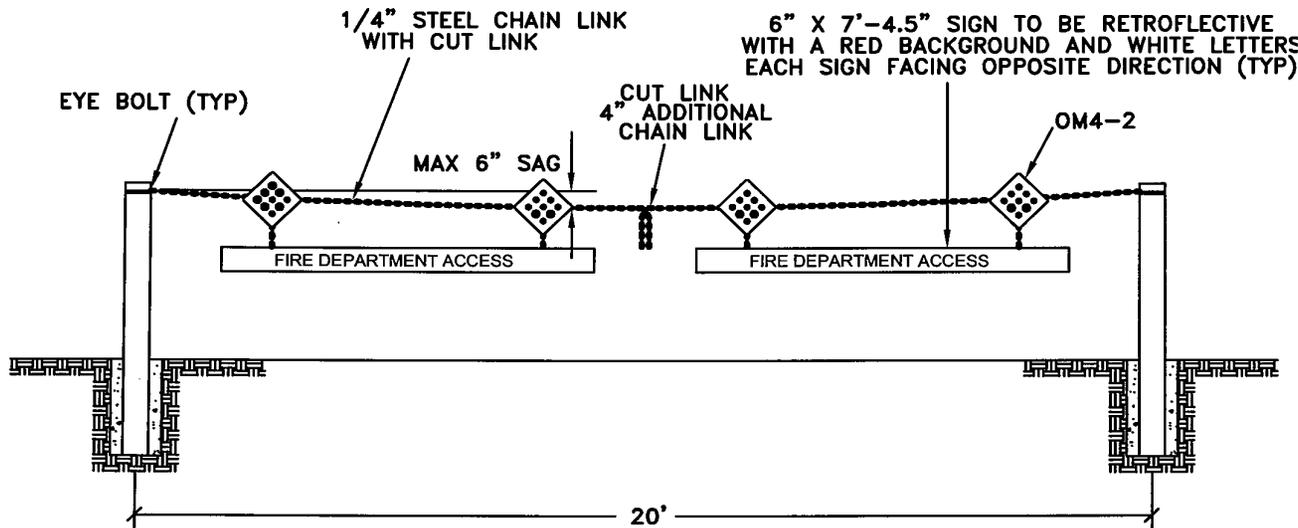
Turn Diverters-Full Access In/Right Out

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. ALTERNATIVE FIRE DEPARTMENT ACCESS BARRIERS WILL NEED TO BE APPROVED BY THE FIRE MARSHALL.

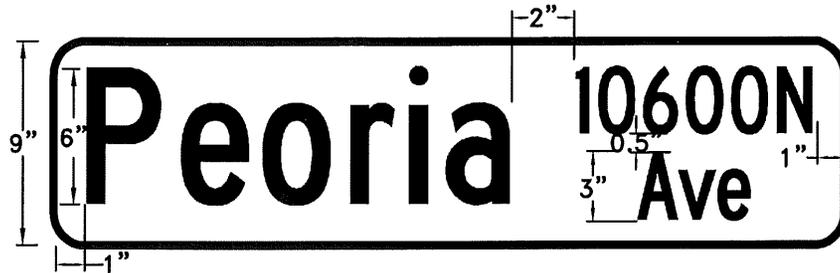
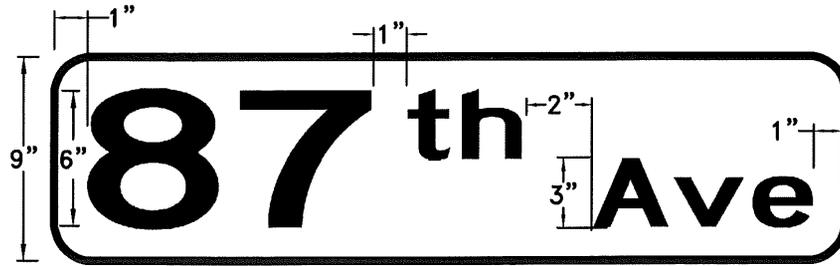


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**CITY OF PEORIA STANDARD DETAIL - PE-040**

**Fire Department Access Barrier**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



Local/Local Intersections Only



White Bar -Private Streets Only

**NOTES:**

1. SHEETING TYPE FOR PUBLIC STREETS SHALL BE HIGH INTENSITY PRISMATIC ASTM TYPE IV SERIES 3930 WITH BLACK LETTERS AND WHITE BACKGROUND.
2. SHEETING TYPE FOR PRIVATE STREETS SHALL BE 3M SCOTCHLITE 1179 WITH WHITE LETTERS AND BROWN BACKGROUND.
3. THE BLANK SIZE FOR LOCAL/LOCAL INTERSECTIONS SHALL BE 6" HIGH WITH A VARYING WIDTH BETWEEN 24-48" IN 6" INCREMENTS FOR ALL STREETS.
4. THE BLANK SIZE FOR ALL OTHER STREET TYPES WILL BE 9" HIGH WITH A VARYING WIDTH BETWEEN 45-48" IN 6" INCREMENTS FOR ALL STREETS.
5. ALUMINUM GAUGE—0.080.
6. CENTER ENTIRE MESSAGE ON BLANK.
7. PRIVATE STREETS SHALL INCLUDE A 1" WIDE WHITE BAR ALONG THE RIGHT EDGE OF THE SIGN BLANK, AS DEPICTED.

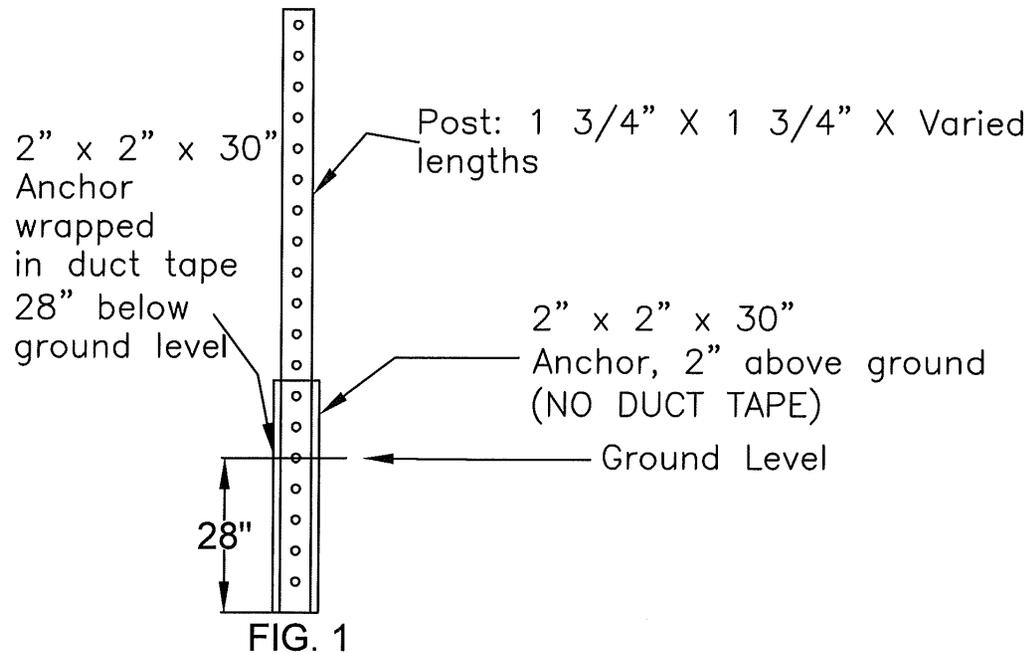


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**CITY OF PEORIA STANDARD DETAIL - PE-050**

**Street Name Signs**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

1. CITY OF PEORIA REQUIRES SQUARE TUBING FOR POST MOUNTED INSTALLATIONS. TUBING SHALL HAVE A GALVANIZED FINISH AND BE ROLL FORM 12 GAGE (0.105-USS GAGE) COLD ROLLED STEEL, BE PERFORATED, AND HAVE HOLE SIZE OF 7/16" IN DIAMETER, AND 1" ON CENTER ON ALL SIDES. ALL SIGN HEIGHTS SHALL CONFORM TO THE MUTCD.
2. POST INSTALLATION REQUIRES A 2"X2"X30" ANCHOR TO BE INSTALLED PNEUMATICALLY OR HYDRAULICALLY AND SHALL BE 28" IN THE GROUND AND 2" ABOVE GROUND (SEE FIG 1).
3. FOR SINGULAR SIGNS A 1-3/4"X1-3/4"X10' POST IS REQUIRED WITH THE EXCEPTION OF OBJECT MARKERS AND/OR END OF ROAD MARKERS.
4. FOR MULTIPLE SIGNS A 1-3/4"X1-3/4"X VARIED LENGTH POST IS REQUIRED PER THE MUTCD HEIGHT SPECIFICATIONS.
5. FOR SIGNS THAT EXCEED 42" IN WIDTH, DUAL POSTS ARE REQUIRED.
6. ATTACHMENT OF THE POST TO THE ANCHOR REQUIRES A 5/16"X2-1/2" GRADE 5 HEX HEAD BOLT WITH A 5/16" FLAT WASHER AND HEX NUT.
7. ATTACHMENT OF THE SIGNS TO THE POST REQUIRES A 5/16"X2-1/2" GRADE 5 HEX HEAD BOLT WITH A 5/16" FLAT WASHER AND HEX NUT.
8. PARKING RESTRICTION SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30 DEGREES OR MORE THAN 45 DEGREES WITH THE LINE OF TRAFFIC IN ORDER TO BE VISIBLE TO APPROACHING TRAFFIC.



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**CITY OF PEORIA STANDARD DETAIL - PE-060**

**Sign Post Specification**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**NOTES:**

1. SIGNS SHOULD BE INSTALLED ON STREET LIGHT POLES INSTEAD OF GROUND-MOUNTED POSTS, WHEN POSSIBLE.
2. SIGNS INSTALLED ON STREET LIGHT POLES SHALL BE INSTALLED USING A MINIMUM 1/2" WIDE STAINLESS STEEL BANDING (C20499) WITH A MINIMUM THICKNESS OF .030, A BANDING BUCKLE (C25499), AND A BANDING BRACKET (D02189).
3. STREET NAME SIGNS SHALL BE INSTALLED USING BANDING LISTED ABOVE AS WELL AS A CANTILEVER BRACKET (5C250), ROUND BRACKET (922SF), AND A CROSS BRACKET (330SF). 6" SIGNS SHALL HAVE 6" WIDE BRACKETS AND 9" SIGNS SHALL HAVE 12" WIDE BRACKETS.
4. 6" **NO OUTLET** (W1-14A) OR **DEAD END** (W14-2A) SIGNS SHALL BE INSTALLED WITH EITHER 6" PARALLEL BRACKETS OR 6" CROSS BRACKETS, WHICHEVER IS APPLICABLE WITH SIGN ORIENTATION, AND SHALL BE INSTALLED ABOVE THE STREET NAME SIGNS, IF ATTACHED AT SAME LOCATION. IF INSTALLED INDIVIDUALLY ON A STREET LIGHT POLE, THE SIGNS SHALL BE INSTALLED USING 1/2" WIDE STAINLESS STEEL BANDING WITH A MINIMUM THICKNESS OF .303, A BANDING BUCKLE (C25499), A CANTILEVER BRACKET (KC250), AND A ROUND BRACKET (922SF).



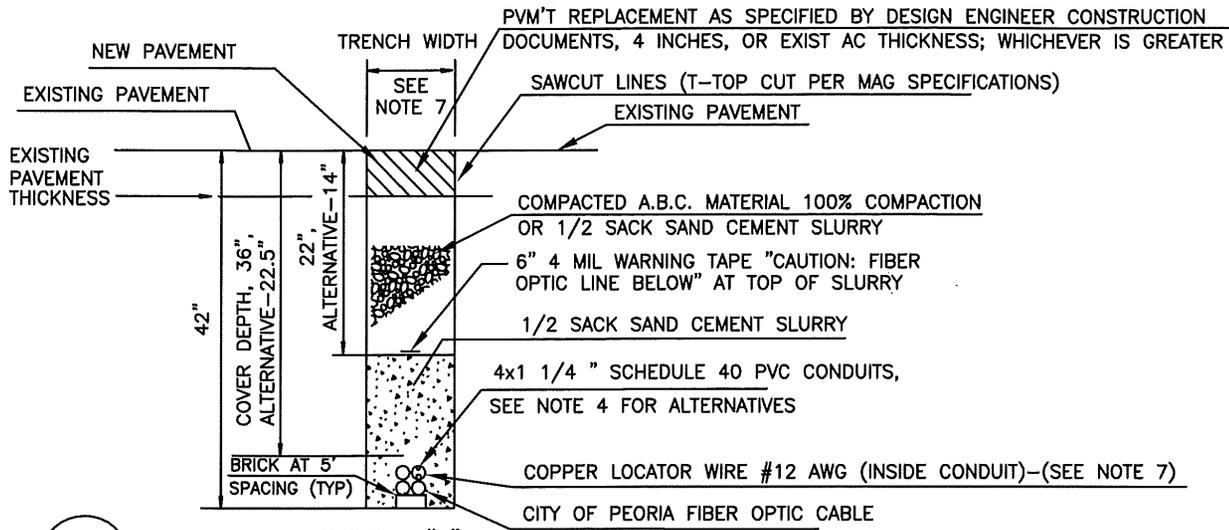
**CITY OF PEORIA STANDARD DETAIL - PE-061**

**Sign Installation on Street Light Pole**

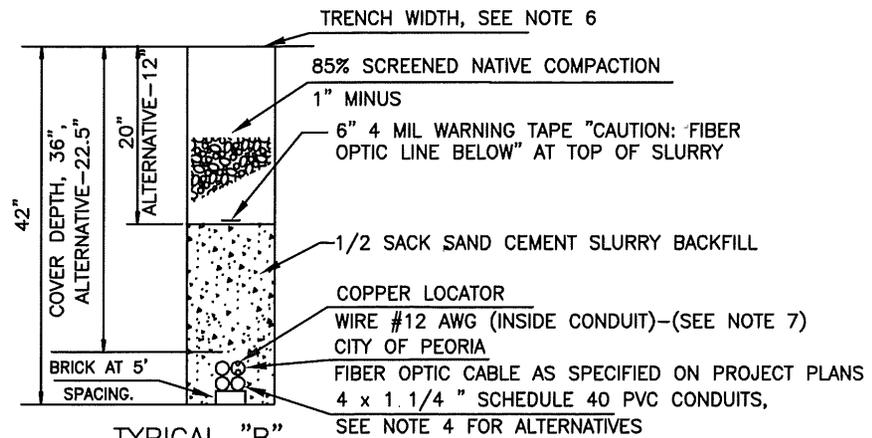
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**A**  
IT-121  
TRENCH DETAIL FOR ASPHALT PAVEMENT



**B**  
IT-121  
EARTH TRENCH DETAIL

**NOTES:**

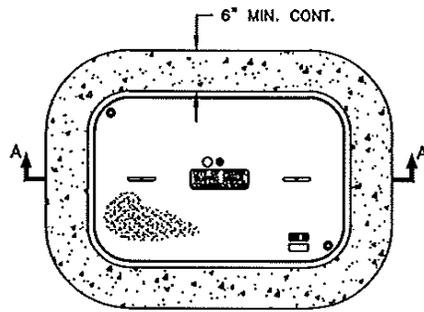
1. USE MAG DETAILS 601, 608, AND 612.
2. BID ITEM FOR PROVIDING A TRENCH THAT IS A MINIMUM OF 42" DEEP INCLUDES INSTALLING FIBEROPTIC DUCT AND PROVIDING BACKFILL, COMPLETE IN PLACE. THIS ITEM SHALL PROVIDE A MINIMUM COVER DEPTH OF 36" OVER THE CONDUIT DUCT.
3. ALL WARNING TAPE, CONDUIT SPACERS, BRICKS, AND COMPACTION WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID OF ITEM.
4. HORIZONTAL DIRECTIONAL BORING SHALL BE ALLOWED WITH ENGINEERS PRIOR APPROVAL.
5. IF THE CONDUIT ROUTING IS MODIFIED TO CROSS AN EXISTING PORTLAND CEMENT CONCRETE DRIVEWAY THE CONDUITS SHALL BE PLACED BY BORING. ALL ASPHALT DRIVEWAYS MAY BE TRENCHED.
6. A 1/2 SAC OF SAND CEMENT SLURRY BACKFILL SHALL BE USED WHEN BACKFILLING CONDUITS. CONDUITS SHALL BE SUPPORTED AND ANCHORED IN THE TRENCH PRIOR TO BACK-FILLING WITH THE CEMENT SLURRY.
7. TRENCH WIDTH MAY NOMINALLY VARY FROM 6" TO 8" BUT SHALL NOT EXCEED 12".
8. A SINGLE CONTINUOUS INSULATED COPPER LOCATOR WIRE AWG#12 SHALL BE INSTALLED INSIDE 1 OF THE CONDUITS ALONG THE ENTIRE LENGTH OF THE CONDUIT RUN. WIRE SHALL HAVE A 5' SERVICE LOOP IN EACH PULL BOX. CRIMP A PIGTAIL TO LID. A CRIMPED SPLICE IS REQUIRED IN ALL THE PULL BOXES AND NOT IN THE CONDUIT RUN.
9. CONTRACTOR SHALL MAINTAIN A 10:1 VARIANCE OF THE CONDUIT ALIGNMENT DURING INSTALLATION.
10. CONDUIT SPACERS AT 3 PER 20' AND 2' FROM ANY DIRECTION CHANGE OR JOINT.

**CITY OF PEORIA STANDARD DETAIL - PE-070**  
**Interconnect Trench Detail**

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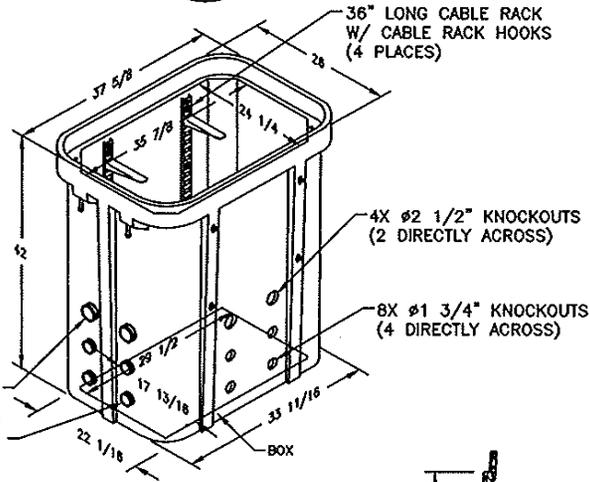
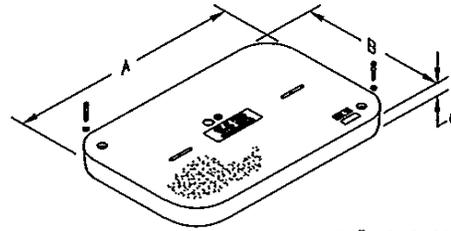


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PLAN VIEW

GROUND LUG INSTALLED IN LID FOR LOCATE WIRE TO BE CONNECTED TO



**DIMENSION MINIMUMS:**

TYPE: COMMUNICATION  
DESC; PULL BOX (24"X36"X42")

A: 35 5/8

B: 24

C: 3

D: 37 5/8

E: 28

F: 18

G: 30 3/8

H: 18 3/4

J: 2

K: 39

ADD COILED FIBER: 50'

TEST POINTS: 1

ADD TRACER WIRE: 5'

4X 2" TERMINATOR  
(2 DIRECTLY ACROSS)

8X 1 1/4" BELL END  
(4 DIRECTLY ACROSS)

4X Ø2 1/2" KNOCKOUTS  
(2 DIRECTLY ACROSS)

8X Ø1 3/4" KNOCKOUTS  
(4 DIRECTLY ACROSS)

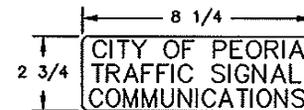
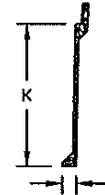
CONCRETE (CLASS B) SUPPORT RING  
(NOT REQUIRED WHEN EMBEDDED IN  
CONCRETE SIDEWALK OR OTHER  
SUITABLE CONCRETE PAD)

4 x 1 1/4" AND/OR 2 X 3" AS NEEDED

12" DEEP GRAVEL  
BED. USE CLEAN #57  
AGGREGATE SUMP

INSTALL GALVANIZED  
1 PIECE 1/4"  
WIRE MESH SQUARES  
24-GAUGE OR LARGER.  
EXTEND 1" PAST  
COM BOX WALLS.

PROVIDE & INSTALL A 8' GROUND ROD  
CONNECT TO LOCATE WIRE AND TO  
TERMINAL OF SPLICE ENCLOSURE



LOGO DETAIL

SECTION A-A

TYPICAL PULL OR SPLICE BOX

**CITY OF PEORIA STANDARD DETAIL - PE-071-1**

**Interconnect Precast Communication Pull Box**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



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## **NOTES**

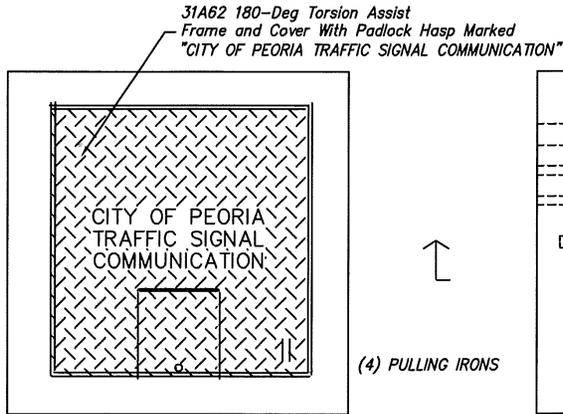
1. ALL NON-DELIBERATE TRAFFIC PULL BOX COVERS MUST COMPLY WITH ALL TEST PROVISIONS OF THE LATEST ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND MUST MEET THE TIER 15 APPLICATION UNLESS SPECIFIED BY THE CITY OF PEORIA. MARKINGS SHOWING THE TIER RATING MUST BE EMBOSSED IN THE TOP SURFACE OF THE COVER.
2. PULL BOX SHALL BE PROVIDED WITH COVER AND SPECIAL CONCRETE CAP, COVER SHALL HAVE EMBOSSED NO-SKID PATTERN AND BE LABELED "CITY OF PEORIA TRAFFIC SIGNAL COMMUNICATIONS".
3. TOPS OF PULL BOXES SHALL BE FLUSH WITH SURROUNDING GRADE OR TOP OF ADJACENT CURB, EXCEPT IN UNPAVED AREAS WHERE PULL BOX IS NOT IMMEDIATELY ADJACENT TO AND PROTECTED BY A CONCRETE FOUNDATION, POLE OR OTHER PROTECTIVE CONSTRUCTION. THE BOX SHALL BE PLACED WITH ITS TOP 0.75" ABOVE SURROUNDING GRADE. WHERE PRACTICAL, PULL BOXES SHOWN IN THE VICINITY OF CURBS SHALL BE PLACED ADJACENT TO THE BACK OF CURB, AND PULL BOXES SHOWN ADJACENT TO TRAFFIC SIGNAL POLE SHALL BE PLACED ON SIDE OF FOUNDATION FACING AWAY FROM TRAFFIC, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL MAINTAIN A 10:1 VARIANCE OF THE CONDUIT ALIGNMENT DURING INSTALLATION. CONDUIT SHALL CONNECT TO THE BOX STUBOUTS WITHOUT BENDS GREATER THAN THE 10:1 VARIANCE.
5. ALL NON-DELIBERATE TRAFFIC PULL BOXES MUST COMPLY WITH ALL TEST PROVISIONS OF THE LATEST ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND MUST MEET THE TIER 22 APPLICATION MARKINGS SHOWING THE TIER 22 RATING MUST BE LABELED OR STENCILED ON THE INSIDE AND OUTSIDE OF THE BOX.
6. ALL NON-DELIBERATE TRAFFIC PULL BOXES AND COVERS MUST BE MADE OF POLYMER CONCRETE WITH FIBERGLASS REINFORCEMENT, THE BOX MUST HAVE CONTINUOUS FIBERGLASS CLOTH REINFORCEMENT ON THE INSIDE AND OUTSIDE PERIMETERS. THE COVERS MUST HAVE A MINIMUM OF 2 LAYERS OF FIBERGLASS CLOTH REINFORCEMENT.
7. ALL NON-DELIBERATE PULL BOXES AND COVERS SHALL BE TESTED AND CERTIFIED, MEETING ALL TEST PROVISIONS OF THE ANSI/SCTE 77, "SPECIFICATIONS FOR UNDERGROUND ENCLOSURES INTEGRITY" BY A UNDERWRITERS LABORATORIES (UL) 66WF AND MUST HAVE A PE STAMP CERTIFYING ALL TEST PROVISIONS OF THE ANSI/SCTE 77 AND SUBMITTED PRIOR TO BEING APPROVED.
8. COVER SHALL BE SECURED TO PULL BOX USING 3/8-7 AUGER HEX HEAD BOLTS.
9. ALL COVERS SHALL BE COMPLETE WITH A MOLDED LOGO AND MANUFACTURES NAME AND TIER RATING LOGO (NO GLUE IN LOGOS).
10. PARTS SHALL BE QUAZITE PG2436B997 PULL BOX AND PG2436H554 COVER OR APPROVED EQUAL.
11. A COMPLIANCE LETTER FROM THE MANUFACTURE OF THE PULL BOXES, SHALL BE SUBMITTED ALONG WITH MATERIAL SUBMITTALS. THE COMPLIANCE LETTER SHALL INDICATE THAT THE PULL BOX MANUFACTURE HAS MET OR EXCEEDED ALL TEST PROVISIONS OF THE LATEST EDITION OF THE ANSI/SCTE 77 AND ALL OF MCDOT REQUIREMENTS LISTED IN PLAN DETAILS.
12. CONDUCTOR LOCATE WIRE SHALL BE SPLICED IN ALL BOXES WITH PIGTAIL FOR LOCATING CONNECTION TO BE CONNECTED TO LID.
13. ALL COVER PULL SLOTS SHALL BE RATED FOR A MINIMUM OF 3000 LBS OF PULL OUT STRENGTH.
14. LABEL WILL BE 1-1/2" DIAMETER ORANGE CIRCLE (EM2005 ORANGE COLOR), WITH BLACK ARROW GRAPHIC. COLOR AND GRAPHIC TO BE SUBSURFACE SILK SCREEN PRINTED ON HP12W, .075 DIAMETER POLYCARBONATE SHEET. REVERSE SIDE ADHESIVE WILL BE 300LSE OR EQUIVALENT AND FOR THE USE SPECIFICALLY WITH POLYMER CONCRETE MATERIALS.
15. THE DEEP RECESS OF THE POLYMER CONCRETE PULL BOX SHALL BE CLEANED WITH AN ALCOHOLIC CLEANER PRIOR TO APPLYING LABELS.
16. PROVIDE RACKING AND MOUNTING HARDWARE FOR FIBER OPTIC CABLE ON TWO SIDES, FOUR RACKS PER SIDE.
17. PROVIDE PLUGS FOR ALL UNUSED CONDUITS.



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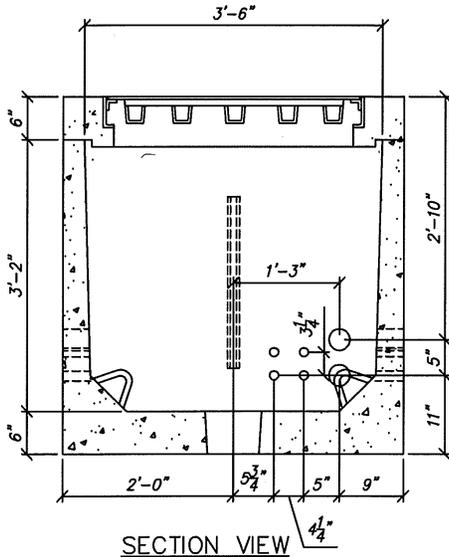
### **CITY OF PEORIA STANDARD DETAIL - PE-071-2 Interconnect Precast Communication Pull Box Notes**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

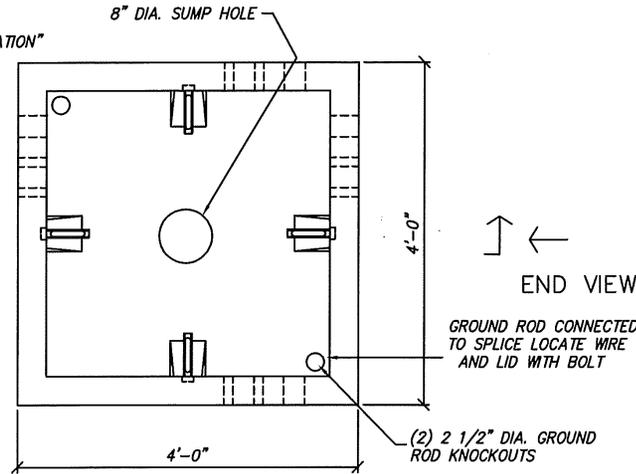


LOCATE WIRE TO BE INSTALLED IN SMALL LID

PLAN VIEW WITH COVER

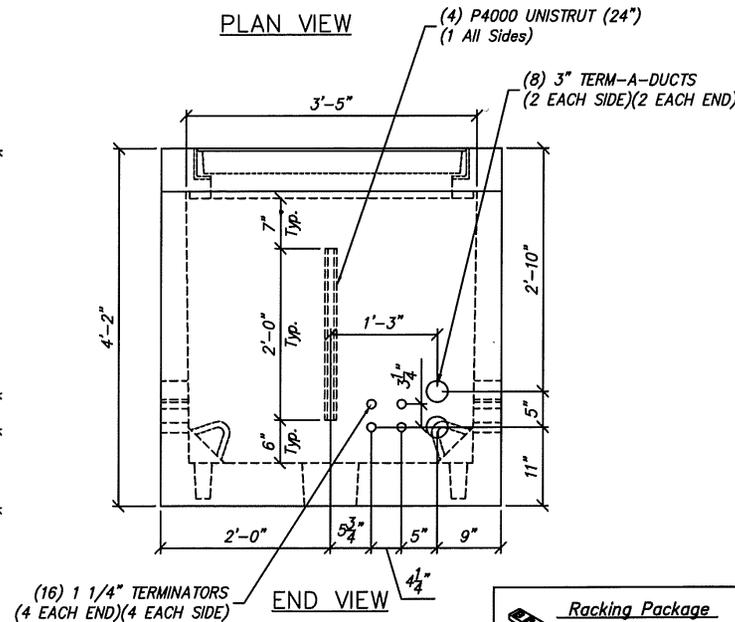


SECTION VIEW

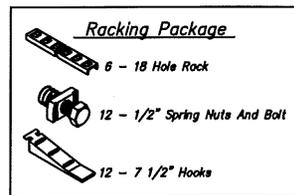


END VIEW

PLAN VIEW



END VIEW



**NOTES:**

1. ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE.
2. PROVIDE RACKING AND MOUNTING HARDWARE FOR THE FIBER OPTIC CABLE.
3. PROVIDE CONDUIT PLUGS IN ALL UNUSED CONDUITS
4. PROVIDE AND INSTALL A 5/8X8' GROUND ROD, CONNECT TO LOCATE WIRE AND TO GROUND TERMINAL OF SPLICE ENCLOSURES.
5. ADD COIL FIBER- 100'.

**STRUCTURAL NOTES:**

1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH F'C=4500 PSI
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. DESIGN: ACI-318-99 BUILDING CODE ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
5. LOADS: HS20 WHEEL LOADING IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC 80PCF LATERAL LIVE LOAD SURCHARGE— UP TO 8' DEPTH SOIL; 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE 80PCF LATERAL SOIL PRESSURE BELOW WATER TABLE 120 PCF SOIL DENSITY

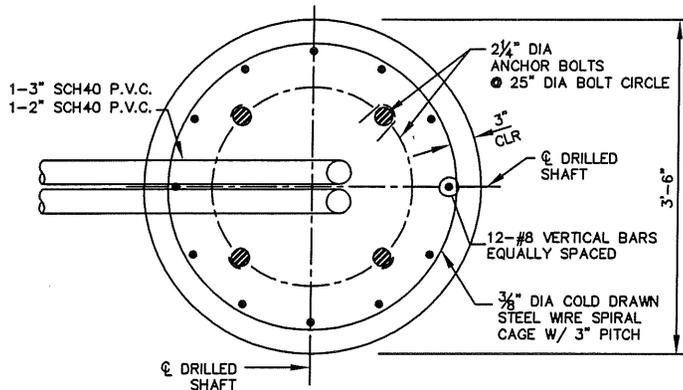


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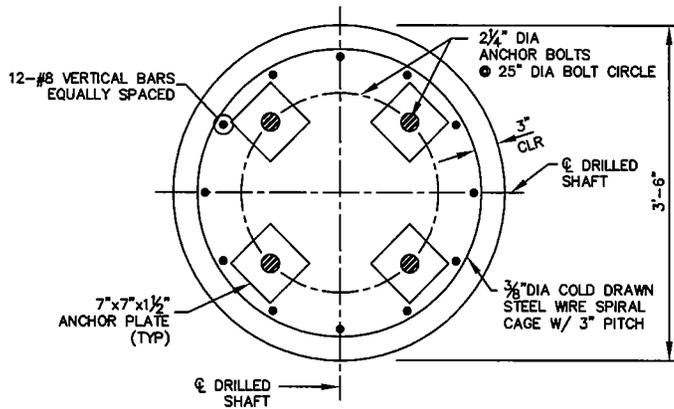
**CITY OF PEORIA STANDARD DETAIL - PE-073**

**Interconnect Communication Vault**

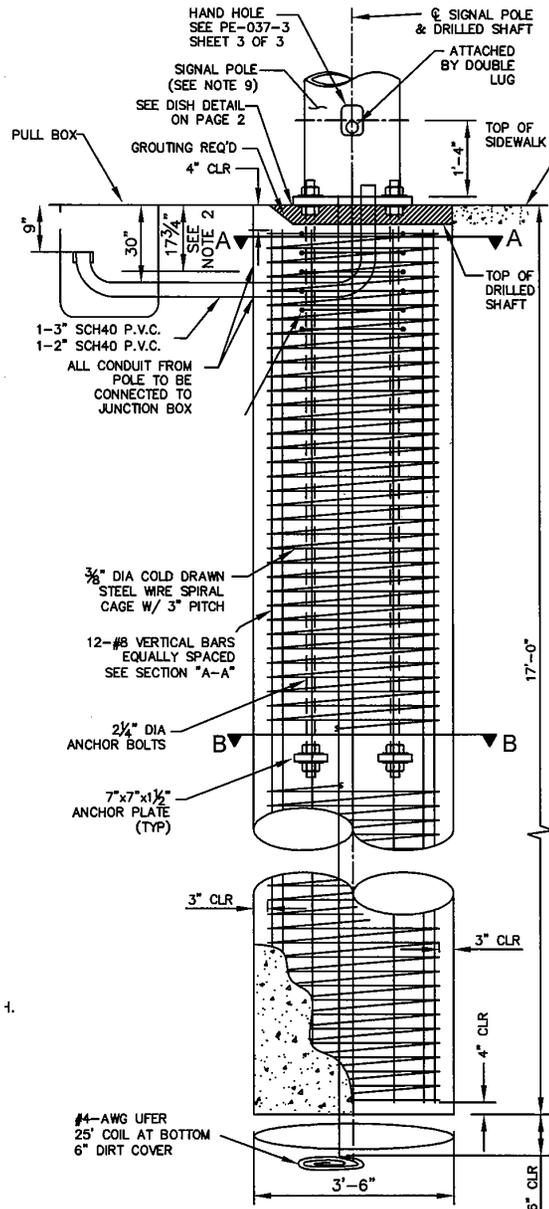
**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**SECTION "A-A"**



**SECTION "B-B"**



**NOTES:**

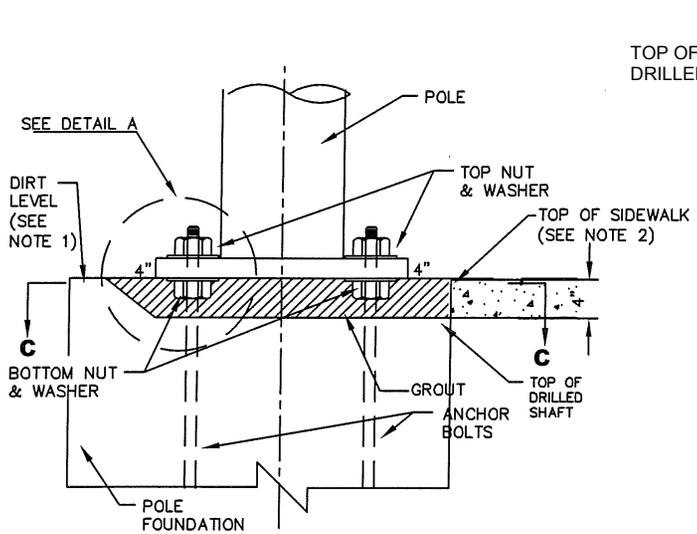
1. ALL FOUNDATIONS SHALL BE CAST IN PLACE AGAINST UNDISTURBED EARTH. WELDING OF REINFORCING STEEL PROHIBITED.
2. A CIRCULAR FORM SHALL BE USED FOR THE TOP 17-3/4" ONLY.
3. BOLTS TO BE SQUARE WITH ROADWAY OR AT ANGLE SHOWN ON PLANS.
4. PLACE ALL CONDUIT IN SAME TRENCH WHERE POSSIBLE.
5. ALL FOUNDATIONS SHALL BE 42" DIAMETER AND 17' DEEP.
6. CONCRETE FOR FOUNDATION SHALL BE CLASS "A" (AE) F'C=3000 PSI.
7. ANCHOR BOLTS SHALL CONFORM TO MINIMUM REQUIREMENTS OF ASTM A 307. ANCHOR BOLT SHALL NOT BE WELDED TO THE REINFORCING STEEL. THE NUTS, WASHERS, AND THE TOP 10" OF THE ANCHOR BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.
8. CAP CONDUIT ON BOTH ENDS PRIOR TO INSTALLATION.
9. FOUNDATION ACCOMMODATES MODIFIED R POLE SHOWN IN PEORIA DETAIL PE-081-1.
10. UFER GROUND NOT GROUND ROD.
11. 2" CONDUIT FOR COMM ONLY.
12. 3" CONDUIT FOR SIGNAL WIRE.



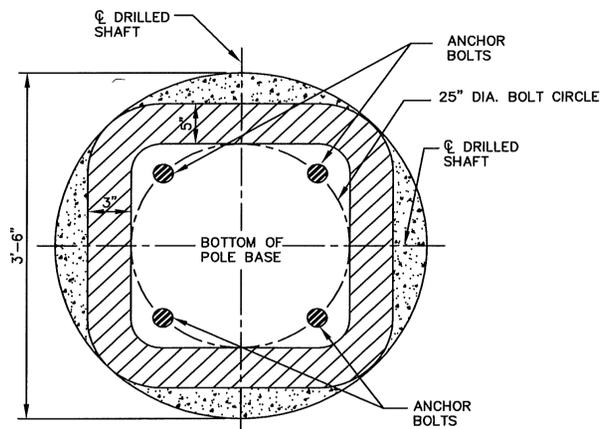
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**CITY OF PEORIA STANDARD DETAIL - PE-080-1**  
**Signal Pole Foundation, Modified "R" Pole, Page 1**

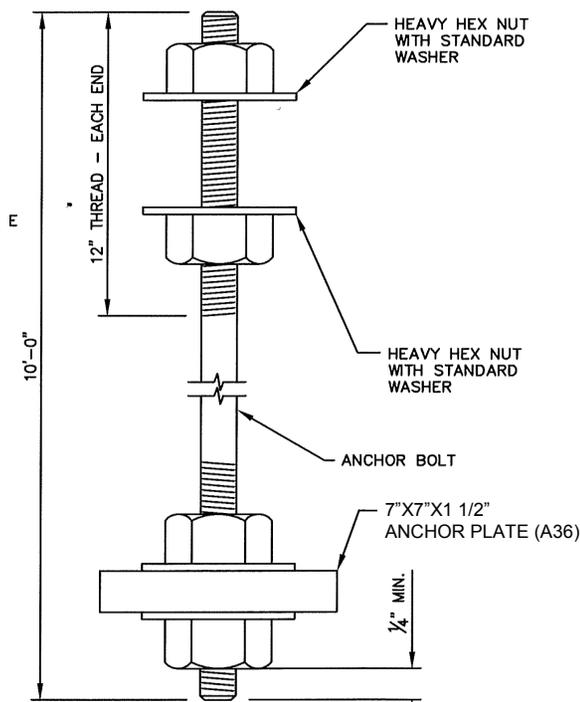
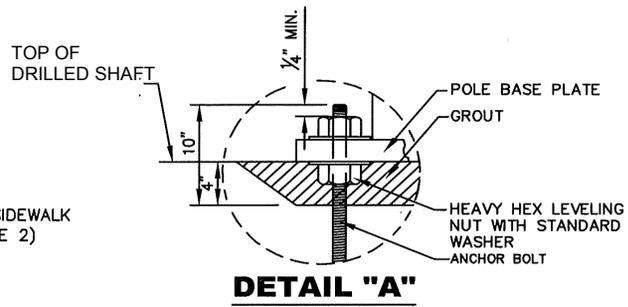
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**SIDE VIEW**  
**POLE FOUNDATION - DISH DETAIL**  
 (TYPICAL PER ALL POLES)



**SECTION C-C**  
**POLE FOUNDATION - DISH DETAIL**



**2 1/4" DIA ANCHOR BOLT ASSEMBLY (4 REQUIRED)**

**POLE FOUNDATION—DISH DETAIL:**

1. WHEN FOUNDATION IS LOCATED IN A DIRT AREA.
2. WHEN FOUNDATION IS LOCATED IN A SIDEWALK AREA.
3. BOTTOM OF POLE BASE SHALL SIT FLUSH WITH TOP OF POLE FOUNDATION OR SIDEWALK.
4. AFTER POLE IS LEVELED GROUT IS TO BE INSTALLED FLUSH WITH TOP OF FOUNDATION OR SIDEWALK.

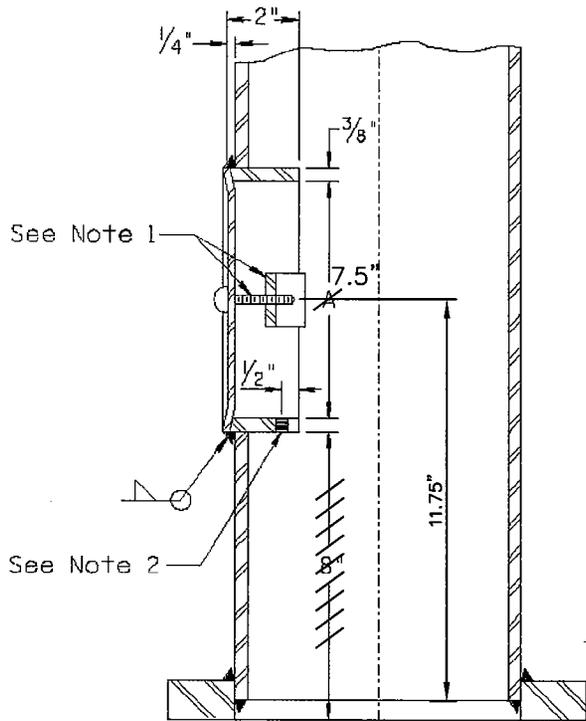


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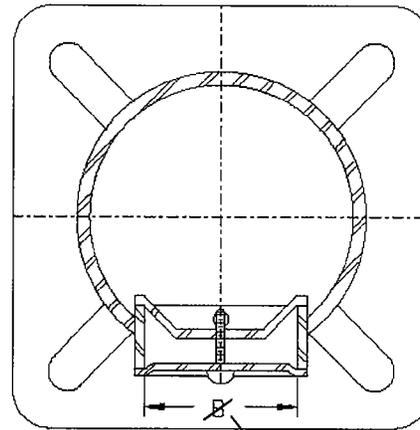
**CITY OF PEORIA STANDARD DETAIL - PE-080-2**

**Signal Pole Foundation, Modified "R" Pole, Page 2**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



SECTION A-A



SECTION B-B



Direction of Mast Arm,  
See Note 3

**NOTES:**

1. HAND HOLE LOCKING DEVICE SHALL BE USED.
2. POLE GROUND SHALL BE 5/16" DIAMETER NC TAPPED HOLE LOCATED AS SHOWN.
3. HAND HOLE SHALL BE ORIENTED SO THAT IT IS ALIGNED WITH THE MAST ARM.
4. HAND HOLE COVER MAY BE RECTANGULAR SHAPE OR OVAL SHAPE.
5. THE EXACT CONFIGURATION OF THE HAND HOLE CAN VARY AS LONG AS THE FUNCTION AND BASIC SIZE IS THE SAME OR LARGER.

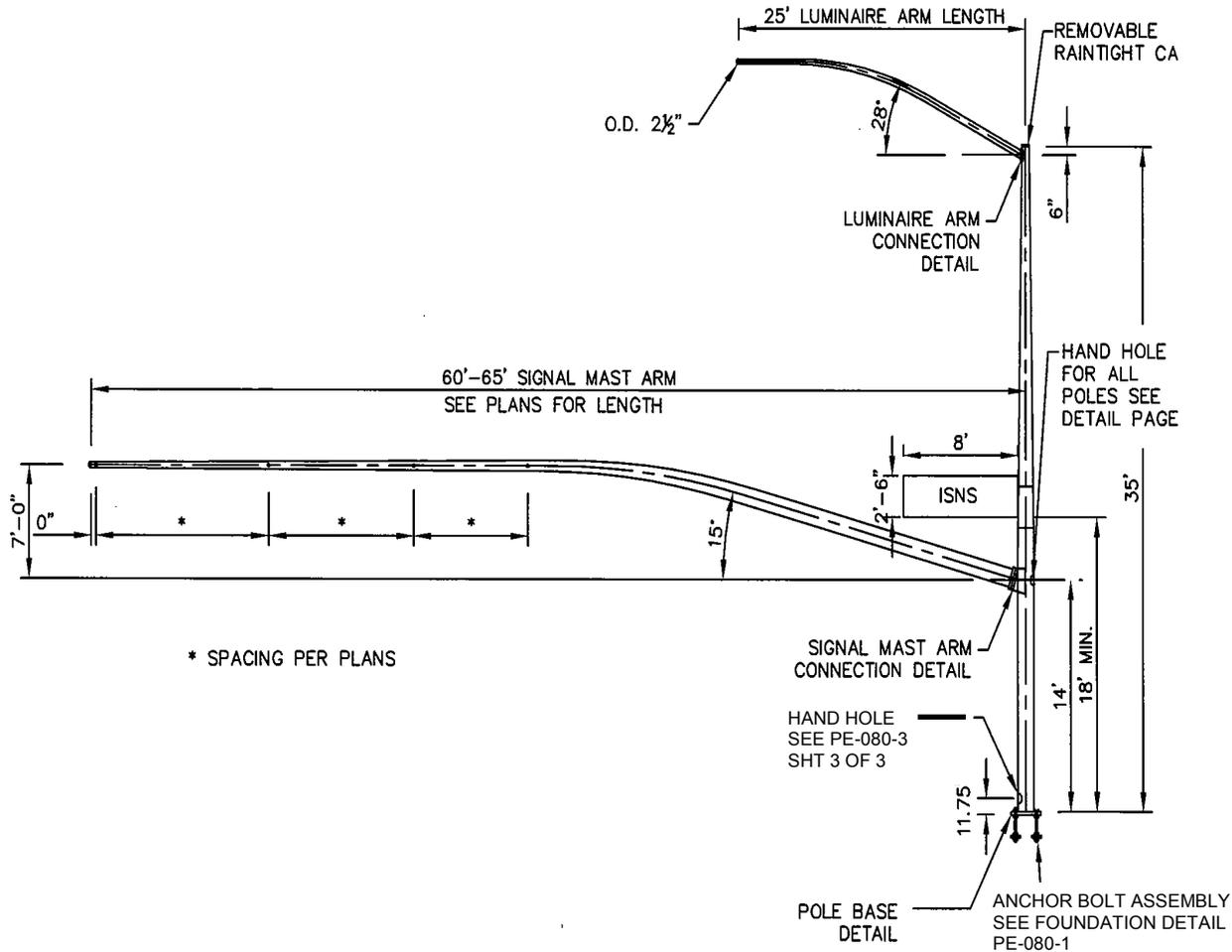


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**CITY OF PEORIA STANDARD DETAIL - PE-080-3**  
**Signal Pole Foundation, Modified "R" Pole, Page 3**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

DEVICE	DESCRIPTION
(A) SIGNAL	12' SECTION W/6" BACK PLATE
(B) SIGN	REGULATION 24" x 36"
(C) SIGN	ILLUMINATED STREET NAME SIGN



**NOTES:**

1. LOCATION SHALL BE DETERMINED IN THE FIELD FOR THE PRE-EMPTION EYE BASED ON ROADWAY CONDITIONS.
2. ALL OVERHEAD SIGNALS SHALL LINE UP WITH CENTER OF CORRESPONDING LANE.
3. CCTV FIELD DETERMINED ON LUMINAIRE ARM.
4. VIDEO DETECTION SHALL BE FIELD DETERMINED

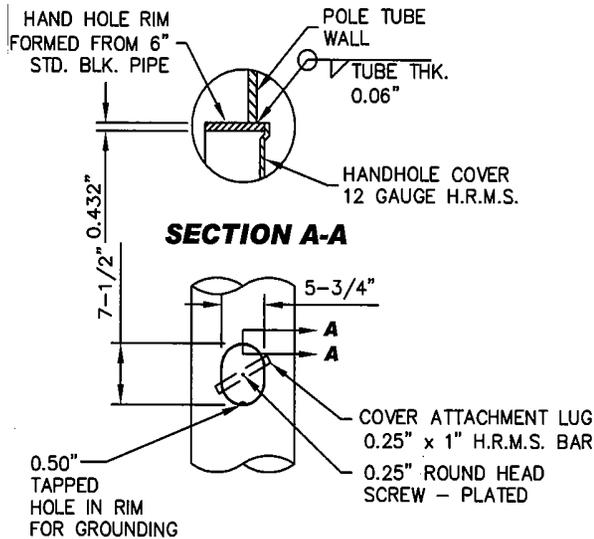


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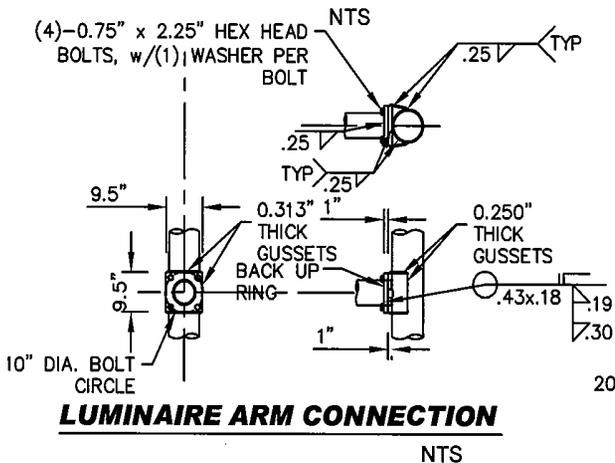
**CITY OF PEORIA STANDARD DETAIL - PE-081-1**

**Signal Pole Modified "R" Pole, Page 1**

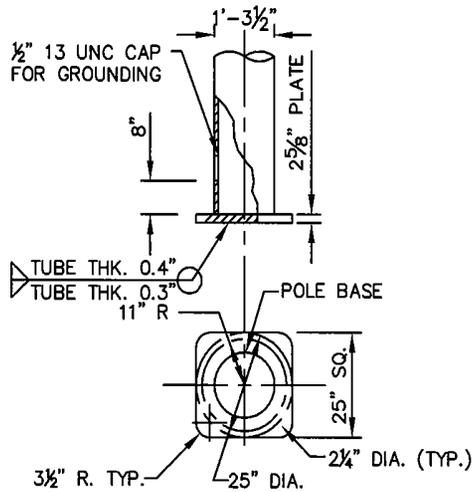
**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



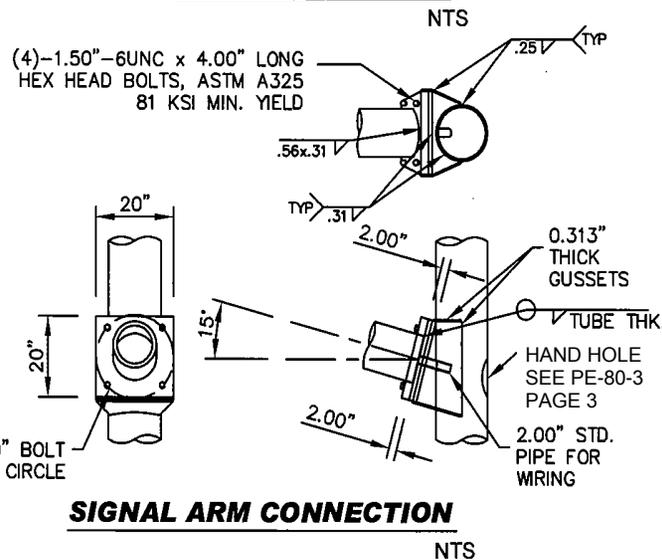
**SECTION A-A**  
**FLUSH HAND HOLE CASTING DETAIL**



**LUMINAIRE ARM CONNECTION**



**POLE BASE DETAIL**



**SIGNAL ARM CONNECTION**

**NOTES:**

1. IT IS THE POLE MANUFACTURER'S RESPONSIBILITY TO ENSURE THAT THEIR EQUIPMENT IS DESIGNED TO ACCOMMODATE THE TOTAL LOAD OF ALL EQUIPMENT DEPICTED ON THE PLAN SET. IT IS ALSO THE RESPONSIBILITY OF THE POLE MANUFACTURE TO CONSTRUCT THE POLE BASE PLATE TO MATCH THE CONFIGURATION OF BOLTS AND FOUNDATION ON DETAIL PE-080-2.
2. POLES AND ARMS SHALL MEET THE DESIGN REQUIREMENTS OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (CURRENT EDITION) FOR AN 80 MPH WIND WITH 100 MPH GUSTS.
3. STEEL POLE AND ARMS AND THE STRUCTURAL SECTION PROPERTIES SHALL BE DESIGNED USING A MAXIMUM ALLOWABLE STRENGTH OF 55KSI. STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 48.3 KSI WITH NO CREDIT ALLOWANCE FOR COLD WORKING.
4. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123.
5. TUBE DIAMETERS TOLERANCE OF  $\pm 0.125'$ .
6. ALL GALVANIZED STEEL THREADS SHALL BE FREE FROM DEFECTS ALLOWING NUTS TO BE FREE RUNNING BY HAND FOR THE ENTIRE LENGTH OF THE THREADS.
7. WELDING DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH CURRENT AMERICAN WELDING SOCIETY (AWS) SPECIFICATION D1.1. ALL WELDING, REGARDLESS OF WHERE IT IS DONE (SHOP OR FIELD) OR WHAT COMPONENTS ARE WELDED (REBAR, STEEL, OR OTHER METALS), MUST BE DONE BY AN AWS CERTIFIED WELDER. THIS INCLUDES TEMPORARY STEEL STRUCTURES SUCH AS FALSE WORK AND UNDERGROUND SHORING. CONTRACTORS MUST SUBMIT COPIES OF CURRENT AWS CERTIFICATION TO THE CITY ENGINEER BEFORE ANY FIELD WELDING BEGINS.
8. DUAL MAST ARM POLE ASSEMBLY SHALL BE AT 90 DEGREES.
9. ALL INSULATORS SHALL BE BANDED.
10. POLES AND ARMS SHALL BE CIRCULAR CROSS SECTIONS.
11. SHOP DRAWINGS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF PEORIA FOR REVIEW PRIOR TO THE ORDERING OF ANY EQUIPMENT.
12. ALL BUTT OR GROOVE WELDS SHALL BE GROUND FLUSH.
13. UNLOADED—NO DEAD OR LIVE LOAD.

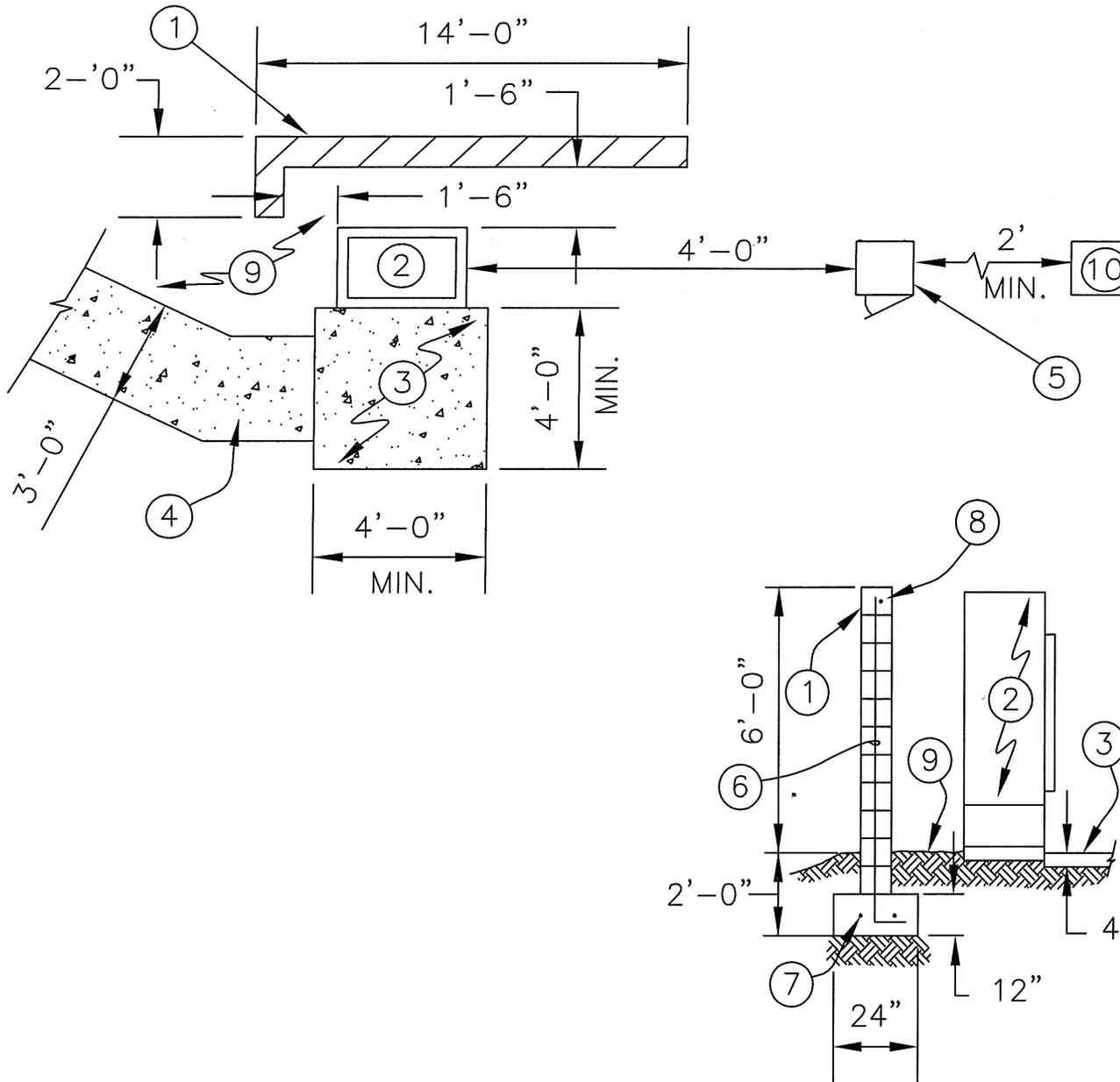


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**CITY OF PEORIA STANDARD DETAIL - PE-081-2**

**Signal Pole-Modified "R" Pole, Page 2**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

1. MASONRY SCREEN WALL—8X8X16 SPLIT FACE CMU, BROWN WITH MATCHING GROUT, STUCCO, SMOOTH, OR STONE VENEER TO MATCH ADJACENT EXISTING WALLS.
2. SIGNAL CABINET
3. COURTESY PAD—CLASS C CONC.
4. MAINTENANCE SIDEWALK—CONNECT TO PEDESTRIAN SIDEWALK—CLASS C CONC.
5. BATTERY BACK UP OR PULL BOX.
6. #4 VERTS @ 24" OC IN GROUTED CELLS.
7. 2 EACH #4 HORZ. BARS IN MAG 2000PSI CONC.
8. 1 EACH #4 HORZ. BAR IN SOLID GROUTED CELL OR USE #9 DURAWIRE @ 16" OC.
9. LANDSCAPE AREA.
10. POWER PEDESTAL.



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**CITY OF PEORIA STANDARD DETAIL - PE-082**  
**Traffic Control Cabinet Screen Wall and Courtesy Pad**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**SIGNAL HEADS SIDE MOUNT, INBOARD  
& OUTBOARD  
5 CONDUCTOR CABLE**

**PEDESTRIAN HEADS  
5 CONDUCTOR CABLE**

**PUSH BUTTON  
2 CONDUCTOR CABLE**

BASIC COLOR	SIGNAL INTERVAL
RED	LEFT RED
GREEN	RIGHT RED
BLACK	YELLOW
ORANGE	SPARE
WHITE	VEH. COMMON

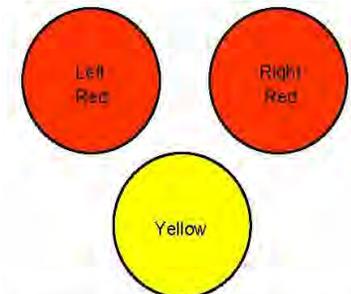
BASIC COLOR	SIGNAL INTERVAL
RED	DON'T WALK
GREEN	SPARE
BLACK	WALK
ORANGE	SPARE
WHITE	PED. COMMON

BASIC COLOR	PUSH BUTTON STATION
RED	BUTTON NORMALLY OPEN
BLACK	SPARE
WHITE	BUTTON COMMON

**IMSA CABLE 25-1 #16 AWG, 25 CONDUCTOR  
CONDUCTOR COLOR**

CABLE	BASIC COLOR	TRACER STRIPE	SIGNAL INTERVAL	CONTROL CABINET FIELD TERMINATION
<b>VEHICLE INDICATIONS</b>	RED	BLACK	LEFT RED INDICATION	PHASE 1 VEHICLE GREEN
	RED	WHITE	RIGHT RED INDICATION	PHASE 1 VEHICLE YELLOW
	BLACK	WHITE	YELLOW INDICATION	PHASE 2 VEHICLE YELLOW
<b>PEDESTRIANS</b>	BLUE	N/A	WALK INDICATION	PHASE 3 VEHICLE GREEN
	BLACK	N/A	DON'T WALK INDICATION	PHASE 3 VEHICLE RED
	WHITE	BLACK	BUTTON NORMALLY OPEN	PED CALL 2 (PC2)
	WHITE	N/A	BUTTON COMMON	AC COMMON BUSS BAR

TYPE "T" HEAD EXAMPLE



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**CITY OF PEORIA STANDARD DETAIL - PE-084-1**

**Single Phase Hawk Wiring Detail**

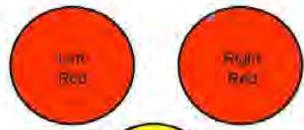
**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

## 2-PHASE HAWK WIRING DETAIL STANDARD

TYPE OF SIGNAL	CONDUCTOR	BASIC COLOR	SIGNAL INTERVAL	CONTROL CABINET Field Termination
Signal Heads Mast Arm Indications	5 Conductor #16 AWG	Red	Right Red	
		Green	N/A	
		Black	Left Red	
		Orange	Yellow	
		White	Vehicle Common	
Pedestrian Heads	5 Conductor #16 AWG	Red	Don't Walk	
		Black	Spare	
		Green	Walk	
		Orange	Spare	
		White	Ped Common	
Push Button	2 Conductor #16 AWG	Black	Normally Open	
		White	Button Common	
Northbound Cable 1 Vehicle Phases 3 & 4	25 Conductor #16 AWG	Black/Red	Left Red Indication	Phase 3 Vehicle Red
		Red/Black	Right Red Indication	Phase 4 Vehicle Red
		Orange/Black	Yellow Indication	Phase 4 Vehicle Yellow
Southbound Cable 2 Vehicle Phases 7 & 8	25 Conductor #16 AWG	Black/Red	Left Red Indication	Phase 7 Vehicle Red
		Red/Black	Right Red Indication	Phase 8 Vehicle Red
		Orange/Black	Yellow Indication	Phase 8 Vehicle Yellow
Northbound Cable 1 Pedestrian Phase 2	25 Conductor #16 AWG	Blue	Walk Indication	Phase 2 Ped Walk
		Black	Don't Walk Indication	Phase 2 Ped Don't Walk
		White/Black	Button Normally Open	Ped Call 2 (PC2)
Southbound Cable 2 Pedestrian Phase 6	25 Conductor #16 AWG	White	Button Common	AC Common Buss Bar
		Blue	Walk Indication	Phase 6 Ped Walk
		Black	Don't Walk Indication	Phase 6 Ped Don't Walk
		White/Black	Button Normally Open	Ped Call 6 (PC6)
		White	Button Common	AC Common Buss Bar

TYPE "T" HEAD EXAMPLE

NB PHASE 3 RED (3R)  
SB PHASE 7 RED (7R)  
LEFT INDICATION



NB PHASE 4 RED (4R)  
SB PHASE 8 RED (8R)  
RIGHT INDICATION

NB PHASE 4 YELLOW (4Y)  
SB PHASE 8 YELLOW (8Y)

### CITY OF PEORIA STANDARD DETAIL - PE-084-2 2-Phase Hawk Wiring Detail



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**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**IMSA 25 CONDUCTOR WIRING DETAIL 19-1-16 GAGE HIGH TEMP WIRE**

**ISMA 2,5,7 CONDUCTOR SIGNAL HEAD WIRING DETAIL**

CONDUCTOR COLOR			
CABLE 1	SOLID COLOR	TRACER COLOR	SIGNAL INTERVAL
Phase 1	Red	White	Red Arrow
EBTL	Black	White	Yellow Arrow
Overlap A	Green	White	Green Arrow
<i>FY Arrow</i>	<i>Yellow</i>	<i>Red</i>	<i>FY Arrow</i>
Phase 2	Red		Red
WBT	Orange		Yellow
Overlap B	Green		Green
Phase 3	Black	Red	Red Arrow
SBLT	Orange	Red	Yellow Arrow
Overlap C	Blue	Red	Green Arrow
<i>FY Arrow</i>	<i>Yellow</i>	<i>Blue</i>	<i>FY Arrow</i>
Phase 4	Red	Black	Red
NBT	Orange	Black	Yellow
Overlap D	Green	Black	Green
Phase 2	Blue		Walk
WB	Black		Don't Walk
Pedestrian	White	Black	Push Button
Phase 4	Blue	White	Walk
NB	Red	Green	Don't Walk
Pedestrian	White	Red	Push Button
Common	White		PB Common
Spare	Blue	Black	Spare
Spare	Brown		Spare
Spare	Brown	White	Spare
Spare	Orange	Green	Spare

CONDUCTOR COLOR			
CABLE 2	SOLID COLOR	TRACER COLOR	SIGNAL INTERVAL
Phase 5	Red	White	Red Arrow
WBLT	Black	White	Yellow Arrow
Overlap A	Green	White	Green Arrow
<i>FY Arrow</i>	<i>Yellow</i>	<i>Red</i>	<i>FY Arrow</i>
Phase 6	Red		Red
EBT	Orange		Yellow
Overlap B	Green		Green
Phase 7	Black	Red	Red Arrow
NBLT	Orange	Red	Yellow Arrow
Overlap C	Blue	Red	Green Arrow
<i>FY Arrow</i>	<i>Yellow</i>	<i>Blue</i>	<i>FY Arrow</i>
Phase 8	Red	Black	Red
SBT	Orange	Black	Yellow
Overlap D	Green	Black	Green
Phase 6	Blue		Walk
EB	Black		Don't Walk
Pedestrian	White	Black	Push Button
Phase 8	Blue	White	Walk
SB	Red	Green	Don't Walk
Pedestrian	White	Red	Push Button
Common	White		PB Common
Spare	Blue	Black	Spare
Spare	Brown		Spare
Spare	Brown	White	Spare
Spare	Orange	Green	Spare

SIGNAL HEAD	CONDUCTOR CABLE	WIRE COLOR	SIGNAL COLOR
Type F	IMSA 5	Red	Red
		Black	Yellow
		Green	Green
		White	Neutral
		Orange	Spare
Type G	IMSA 7	Red	Red Arrow
		Black	Yellow Arrow
		Green	Green Arrow
		Blue	Spare
		Orange	Flashing Yellow Arrow
		White	Neutral
		White/Black	Spare
Type R	IMSA 7	Red	Red Arrow
		Black	Yellow Arrow
		Green	Green Arrow
		Blue	Spare
		Orange	Spare
		White	Neutral
		White/Black	Spare
Type Q	IMSA 7	Red	Red
		Black	Yellow
		Green	Green
		Blue	Green Arrow
		Orange	Yellow Arrow
		White	Neutral
		White/Black	Spare

**STANDARDIZED PHASE TAPE REQUIREMENTS\***

PHASE	ONE BAND 3 WRAPS EACH	TWO BANDS 3 WRAPS EACH	COLOR OF TAPE
1	X		Red
2	X		White
3	X		Blue
4	X		Green
5		X	Red
6		X	White
7		X	Blue
8		X	Green

**PEDESTRIAN HEAD & BUTTON WIRE COLOR**

PEDESTRIAN FEATURE	CONDUCTOR CABLE	WIRE COLOR	SIGNAL COLOR
Head	IMSA 5	Red	Don't Walk
Head	IMSA 5	Black	Spare
Head	IMSA 5	Green	Walk
Head	IMSA 5	White	Neutral
Head	IMSA 5	Orange	Spare
Button	IMSA 2	Black	Norm Open
Button	IMSA 2	White	Common

**WIRE & TAPE COLOR REQUIREMENTS FOR METRO SIGNS & STREET LIGHTS**

FEATURE TYPE	CONDUCTOR CABLE	WIRE COLOR	COLOR OF TAPE
Street Lights	IMSA 4	Black/Red	Orange
Metro Signs	IMSA 4	Black/White	Purple

\*STANDARDIZED PHASE TAPE—STANDARD TAPE COLORS FOR THE IMSA CABLES SHOWN IN THE TABLE ABOVE SHALL BE WRAPPED ACCORDINGLY.

**CITY OF PEORIA STANDARD DETAIL - PE-085-1**

**Traffic Signal Wiring Detail**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



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**NOTES:**

1. CABLE #1 SHALL BE MARKED WITH 1 TAPE BAND AT EACH PULL BOX LOCATION. ALL EAST/WEST RUNS SHALL BE MARKED WITH WHITE TAPE COLOR. ALL NORTH/SOUTH RUNS SHALL BE MARKED WITH GREEN TAPE COLOR. CABINET RUN SHALL BE MARKED WITH YELLOW TAPE COLOR. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE MARKED WITH APPROPRIATE COLOR TO THE ASSIGNED PHASE.
2. CABLE #2 SHALL BE MARKED WITH 2 TAPE BANDS AT EACH PULL BOX LOCATION WITH 1/2" SPACING BETWEEN TAPE. ALL EAST/WEST RUNS SHALL BE MARKED WITH WHITE TAPE COLOR. ALL NORTH/SOUTH RUNS SHALL BE MARKED WITH GREEN TAPE COLOR. CABINET RUN SHALL BE MARKED WITH YELLOW TAPE COLOR. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE MARKED WITH THE APPROPRIATE COLOR TO THE ASSIGNED PHASE.
3. SPARE CABLE/WIRE SHALL BE PULLED INTO SPARE CONDUIT RUN. CABLE/WIRE SHALL BE UN-SPLICED, PHASE TAPED APPROPRIATELY, AND LAID NEATLY ON BOTTOM OF PULL BOX. EARTH GROUND (GREEN #8) SHALL BE BONDED TO GROUND ROD (REFER TO PE-087-3) AT ALL PULL BOX LOCATIONS TO ENSURE LOCATING (BLUESTAKE) CAPABILITIES.

**CITY OF PEORIA STANDARD DETAIL - PE-085-2**

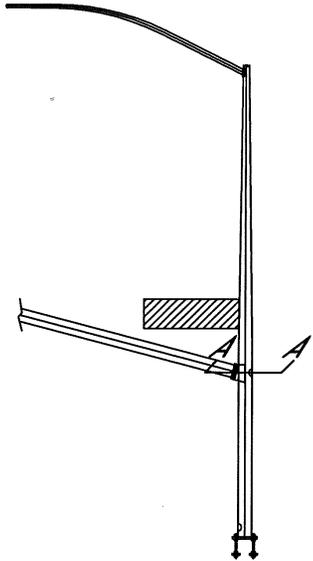
**Traffic Signal Wiring Notes**

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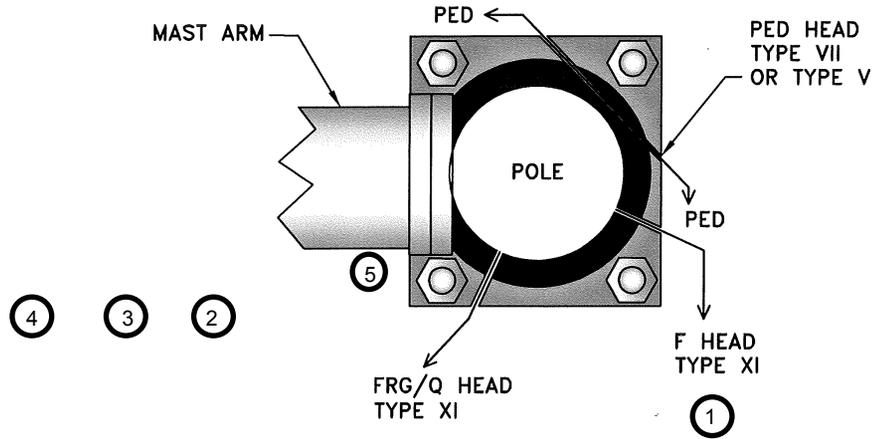


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**POLE DRILLING FOR ALL Q/R POLES W/PEDS SECTION A-A**



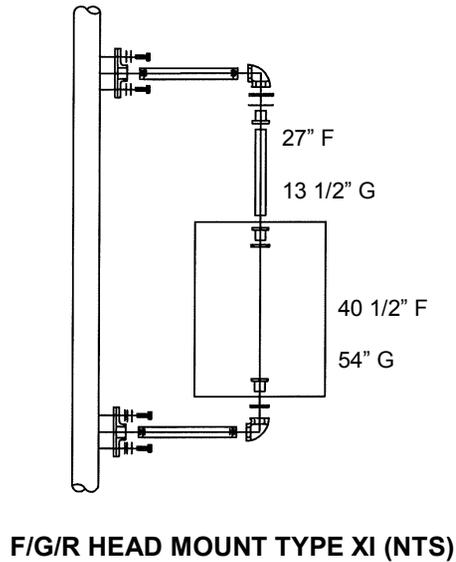
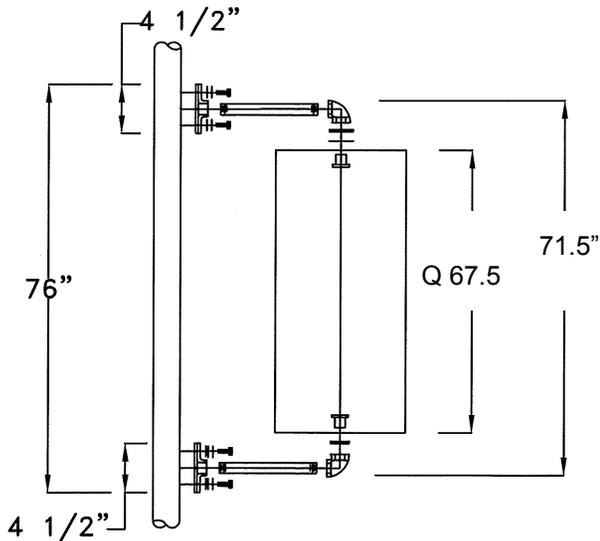
**TRAFFIC SIGNAL  
(NTS)**



**NOTES:**

PHASE TAPE FOR SIGNAL HEAD IDENTIFICATION SHALL BE AS FOLLOWS:

1. MAIN PHASE SIDEMOUNT HEAD-1 WRAP BROWN TAPE.
2. MAIN PHASE OVERHEAD CURBLANE-2 WRAPS BROWN TAPE.
3. CONTINUE (3 WRAPS, 4 WRAPS ETC.) WITH ALL REMAINING THROUGH PHASE SIGNAL HEADS.
4. FOR TYPE G, R & Q HEADS, USE APPROPRIATE PHASE COLORING PER PE-085-1.
5. FOR DUAL LEFT TURNS (2 HEADS) OUTSIDE TURN LANE SHALL BE 1 WRAP BROWN TAPE AND INSIDE TURN LANE SHALL BE 2 WRAPS BROWN TAPE.



**F/G/R HEAD MOUNT TYPE XI (NTS)**

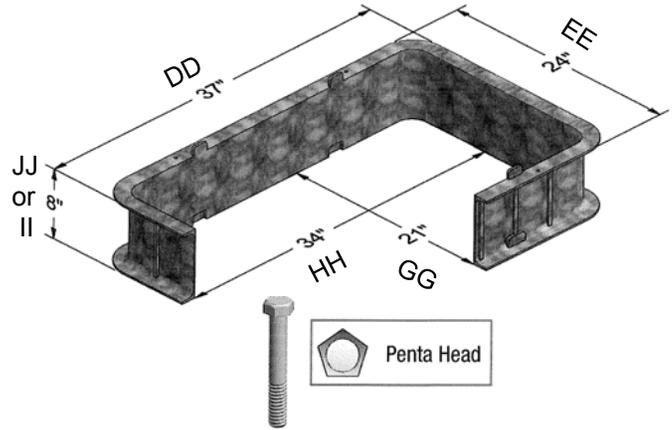
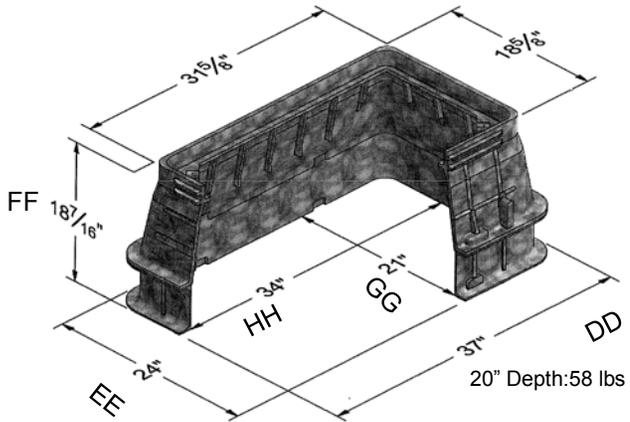
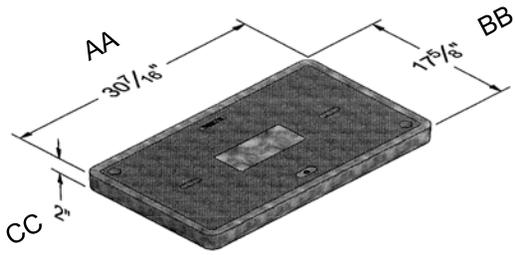


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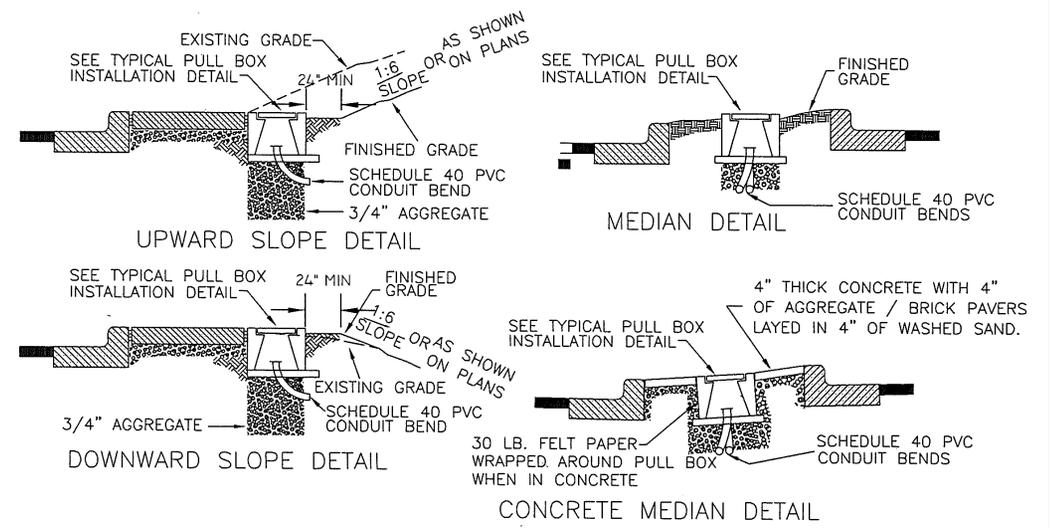
**CITY OF PEORIA STANDARD DETAIL - PE-086**

**Traffic Signal Pole Drilling**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

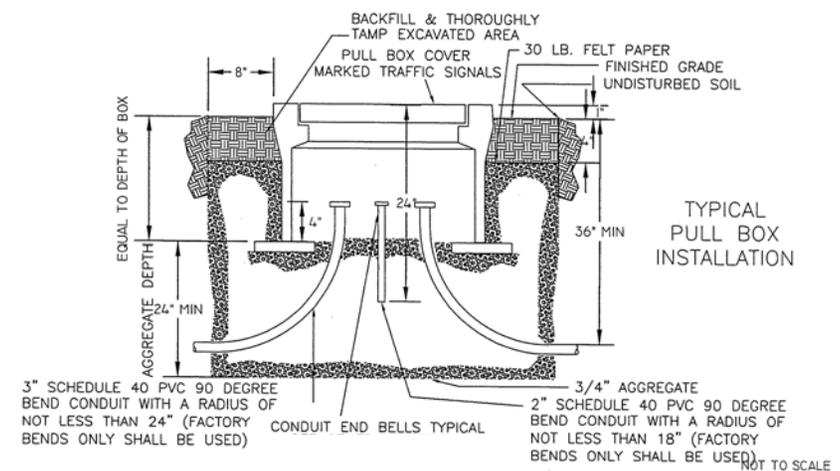


Use as Noted on Plans



**NOTES:**

SEE NOTES ON PE-087-2 FOR ADDITIONAL INFORMATION.



**CITY OF PEORIA STANDARD DETAIL - PE-087-1**  
**Traffic Signal Pull Box and Wire Splicing**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



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BOX TYPE	SIZE	AA	BB	CC	DD	EE	FF	GG	HH	JJ
3.5	11X18	19	11 1/4	1 3/4	22 1/4	15 5/8	12	10 1/8	16 3/4	
5	13X24	23 1/8	13 3/4	2	29	19 1/5	12	12 1/2	22	
7	17X30	30 1/2	17 1/2	2	36 7/8	24	20	16 1/4	29 3/8	8

**NOTES:**

1. BOX SHALL BE CONSTRUCTED OF POLYMER CONCRETE OR OTHER APPROVED MATERIAL. CONCRETE BOXES WILL NOT BE ACCEPTED.
2. COVER LETTERING SHALL BE 1" LETTERS. LETTERING SHALL READ "CITY OF PEORIA TRAFFIC SIGNAL" FOR TRAFFIC SIGNAL BOXES.
3. ALL HARDWARE REQUIRED TO SECURE THE LID SHALL BE SUPPLIED BY THE CONTRACTOR.
4. THE BOXES AND DIMENSIONS SHOWN HERE ARE FOR DEMONSTRATION PURPOSES. BOXES THAT ARE SIMILAR IN SIZE AND FUNCTION MAY BE SUBSTITUTED. THE CONTRACTOR SHOULD GET WRITTEN APPROVAL FROM THE TRAFFIC ENGINEER PRIOR TO ORDERING THE MATERIALS.
5. ONE—5/8"X8' COPPER-CLAD GROUND ROD (10 MILS MIN) SHALL BE INSTALLED IN ONE CORNER OF THE PULL BOX 8" FROM THE BOTTOM OF THE BOX.
6. 30" TRENCH DEPTH FOR ALL CONDUIT. IF CONDUIT TO GRADE DEPTH CAN NOT BE MET, NOTCHING THE BOX CAN BE CONSIDERED IN THE FIELD AND DETERMINED BY AN ENGINEERING INSPECTOR.
7. CONDUITS TO BE 4" ABOVE BOTTOM AND FROM EDGE OF PULL BOX IN THE DIRECTION PIPE ENTER PULL BOX.
8. ALL STREET CONDUIT CROSSINGS SHALL BE 2-4" WITH SIGNAL WIRE IN ONE AND COMMUNICATION WIRE IN THE OTHER AT THE POLE FOUNDATION. INSTALL 2 CONDUITS, 1-3" AND 1-2" COMMUNICATION TO ALL POLE FOUNDATIONS. "A" POLE FOUNDATIONS WILL HAVE 1-2.5" SIGNAL WIRE. THERE WILL BE 2-4" AT ALL PRIMARY POLES.
9. PULL BOX SHALL FACE CENTER OF INTERSECTION WHEN SET RADIUS BEHIND POLE BACK OF WHEEL CHAIR RAMPS. PULL BOX ON CABINET CORNER SHALL HAVE 1 EXTENSION.
10. PULL BOX SHALL FACE PARALLEL TO STREET, SIDEWALK WHEN NOT IN RADIUS.
11. IMSA 25 CONDUCTOR TO BE 24" ABOVE THE TOP OF PULL BOX. INSULATED JACKET TO BE REMOVED AT EQUAL HEIGHT TO TOP OF J-BOX (24").
12. ALL CAMERA, PRE-EMPTION AND COMMUNICATIONS CABLES LOOPED THROUGH PULL BOXES SHALL HAVE 3' NEATLY COILED IN BOTTOM OF BOX. WIRE SHALL BE CONTINUOUS WITH NO SPLICING FROM DEVICE TO CABINET. PHASE TAPE SHALL BE USED TO INDICATE DIRECTION ON CAMERA AND PRE-EMPTION WIRES.
13. ALL WIRES SHALL BE TWISTED TOGETHER PRIOR TO INSERTION ONTO THE GROUND ROD. ALL EARTH GROUNDS TO BE TERMINATED TO THE GROUND ROD. MULTIPLE ACORN CLAMPS MAY BE USED IF NECESSARY.
14. FOR STREET LIGHT AND METRO SIGN WIRING SHALL USE BUSSMAN HEB-AA FUSE HOLDER, 2A0660 INSULATING BOOTS SHALL BE USED AND FUSE-KTK5 FUSING SYSTEM INSTALLED WITH PROPER DIRECTION TO INDICATE LOAD SIDE POINTS TOWARD DEVICE SIDE.
15. SIGNAL NEUTRALS SHALL BE COMPRESSION CRIMPED WITH WR9/W189 CRIMP. CORRECT TYPE COMPRESSION TOOL SHALL BE USED. ALL WIRES SHALL BE TWISTED TOGETHER PRIOR TO INSERTION INTO CRIMP CONNECTOR. UPON COMPLETION OF CRIMP CONNECTION, WIRES SHALL BE TAPED THEN COATED.
16. PED PUSH BUTTON COMMONS (WHITE WIRE) FROM 25 CONDUCTOR TO BE SPLICED IN EACH PULL BOX UTILIZING ONE CRIMP CONNECTION.



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**CITY OF PEORIA STANDARD DETAIL - PE-087-2**  
**Traffic Signal Pull Box and Wire Splicing Notes-Page 1**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**NOTES:**

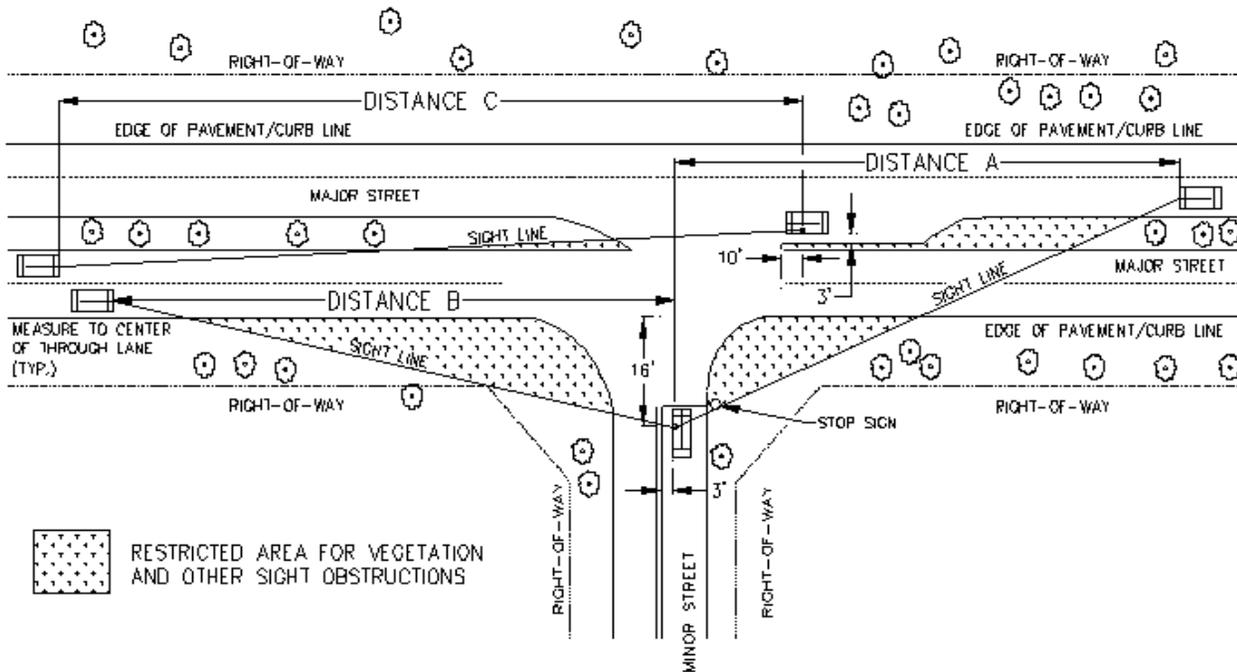
19. ACTIVE PHASES IN THE STRANDED 25 CONDUCTOR SHALL BE COMPRESSION CRIMPED WITH CORRECT COPPER SPLICE CAP FOR GAUGE OF WIRE USED. CORRECT TYPE COMPRESSION TOOL SHALL BE USED PER MANUFACTURERS SPECS. ALL WIRES SHALL BE TWISTED TOGETHER PRIOR TO INSERTION INTO CRIMP CONNECTOR. ALL FINISHED BARE COPPER CRIMPS SHALL BE COVERED WITH CORRECT CAP FOR SPLICE USED PER TO MANUFACTURER'S SPECS. THEN A FINAL SCOTCHKOTING SHALL BE APPLIED TO FILL CAP AND DRIED. DUE DILIGENCE SHALL BE USED WHEN SCOTCHKOTING.
20. ALL UNUSED PHASES SHALL BE PHASE TAPED, CUT TO AN EQUAL LENGTH, TAPED TOGETHER AND LAID NEATLY ON THE BOTTOM OF THE PULL BOX.
21. FOR 2, 5, AND 7 CONDUCTOR CABLES, GROUP TOGETHER SPARES IN AN ORGANIZED WAY, CUT TO EQUAL LENGTHS TAPE ENDS TOGETHER AND LAID NEATLY ON BOTTOM OF PULL BOX.
22. SPLICE ONLY ACTIVE PHASES DO NOT SPLICE ANY WIRE THAT IS NOT TERMINATED TO AN ACTIVE DEVICE.
23. WIRE RUNS FROM DEVICES TO PULL BOXES WILL BE CONTINUOUS. NO SPLICES AT TS BLOCKS IN ANY APPLICATION.
24. PULL 12" OF IMSA CABLE INTO THE SIGNAL DEVISE AND REMOVE 6" OF OUTER WIRE JACKETING.
25. TO TERMINATE SOLID WIRE STRIP 3/4" OF INSULATION AND ROLL OVER INTO COMPLETE CIRCLE, SO SCREW FITS IN CENTER OF CIRCLE. SCREW TOUCHING ONLY COPPER, NO EXCESS COPPER SHOWING FOR SOLID WIRE.
26. FOR STRANDED WIRE USE CORRECT 16 GAUGE INSULATED STAKE ON, AND CORRECT CRIMP TOOL IS TO BE USED.
27. LIGHTING AND METRO CIRCUIT EARTH GROUNDS (GREEN WIRE) TO BE TERMINATED TO GROUND ROD. NEUTRALS (WHITE) SHALL BE TERMINATED AT EVERY PULL BOX WITH A WIRE NUT AND COATED.
28. GROUNDING AND BONDING OF LIGHTING CIRCUITS SHALL OCCUR AT THE SERVICE AND SIGNAL CABINET.



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**CITY OF PEORIA STANDARD DETAIL - PE-087-3**  
**Traffic Signal Pull Box and Wire Splicing Notes-Page 2**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



 RESTRICTED AREA FOR VEGETATION AND OTHER SIGHT OBSTRUCTIONS

**NOTES:**

1. THE SHADED AREAS (SIGHT VISIBILITY TRIANGLES) SHALL BE KEPT CLEAR OF VEGETATION THAT AT MATURITY WILL HAVE HEIGHTS GREATER THAN 30" AND TREES THAT HAVE BRANCHES LOWER THAN 84"; AS MEASURED FROM PAVEMENT SURFACE.
2. ABOVE GROUND UTILITY FACILITIES AND APPURTENANCES ABOVE 30" IN HEIGHT SHALL NOT BE LOCATED WITHIN THE SIGHT VISIBILITY TRIANGLES.
3. SIGNAGE APPROVED BY THE CITY FOR USE IN THE ROW MAY BE LOCATED WITHIN THE SIGHT VISIBILITY TRIANGLES.
4. THE DRAWING DEPICTS A TYPICAL PASSENGER VEHICLE WITH GRADES OF 3% OR LESS, ADJUSTMENTS FOR GRADES GREATER THAN 3% SHALL BE MADE PER AASHTO.
5. DESIGN VEHICLE SHALL BE DETERMINED BY THE CITY ENGINEER. REFER TO AASHTO FOR SIGHT DISTANCE REQUIREMENTS FOR A SINGLE UNIT TRUCK AND COMBINATION TRUCK.
6. MEDIANS LESS THAN 4' IN WIDTH WILL EITHER BE STAMPED CONCRETE, EXPOSED CONCRETE OR PAVERS; NO PLANT MATERIAL WILL BE ALLOWED.
7. MOUNDS USED WITHIN SIGHT DISTANCE TRIANGLES, ROW, AND VIEW EASEMENTS ARE NOT PERMITTED. CARE SHOULD BE TAKEN WHEN DESIGNING LANDSCAPING WITHIN SIGHT DISTANCE TRIANGLES AND VIEW EASEMENTS.

PASSENGER VEHICLE INTERSECTION SIGHT DISTANCE									
DESIGN SPEED (85th PERCENTILE) OF MAJOR STREET	DISTANCE A				DIST. B RIGHT TURN FROM MINOR STREET	DISTANCE C			
	NUMBER OF MAJOR STREET LANES TO CROSS FOR LEFT TURN FROM MINOR STREET (INCLUDING MEDIAN)					NUMBER OF OPPOSING LANES TO CROSS FOR LEFT FROM MAJOR STREET			
	1	2	3	4		1	2	3	4
25 MPH	280'	300'	320'	340'	240'	210'	230'	240'	260'
30 MPH	340'	360'	380'	400'	290'	250'	270'	290'	310'
35 MPH	390'	420'	440'	470'	340'	290'	310'	340'	370'
40 MPH	450'	480'	500'	530'	390'	330'	360'	390'	420'
45 MPH	500'	530'	570'	600'	430'	370'	400'	430'	470'
50 MPH	560'	590'	630'	670'	480'	410'	450'	480'	520'
55 MPH	610'	650'	690'	730'	530'	450'	490'	530'	570'



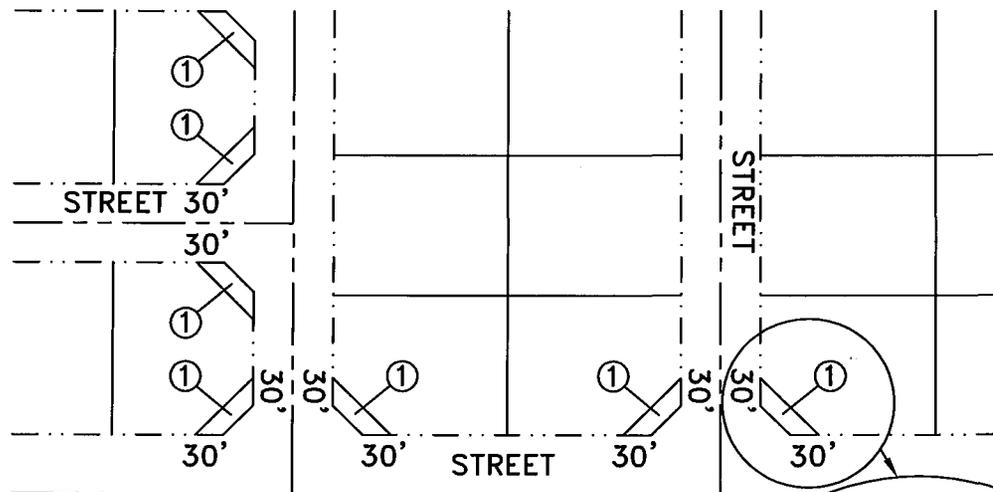
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**CITY OF PEORIA STANDARD DETAIL - PE-090**  
**Sight Distance Requirements for Arterial and Collector Streets**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

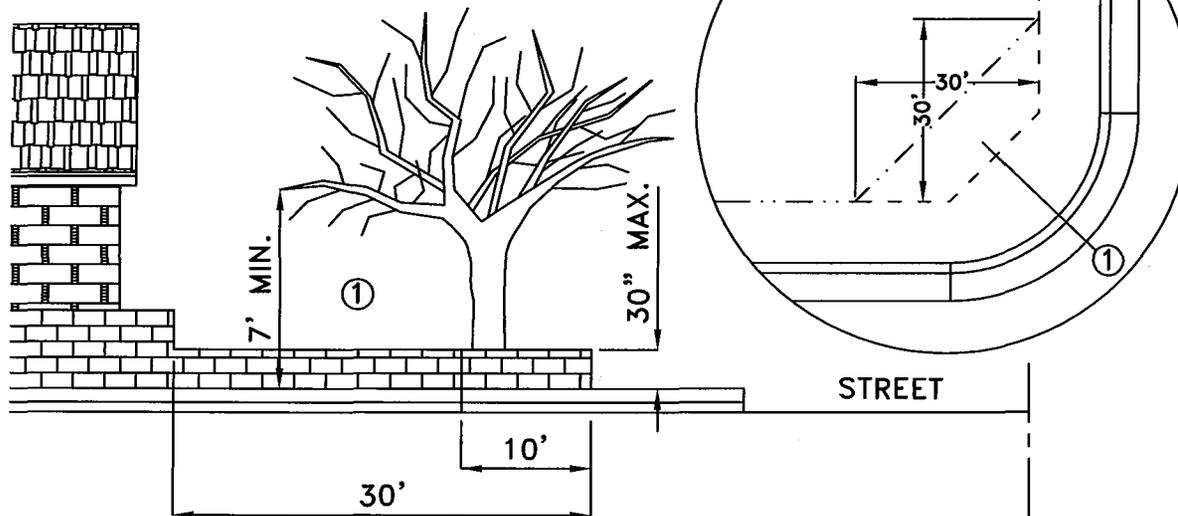
**NOTES:**

1. SIGNS, FENCES, WALLS, UTILITY BOXES, STRUCTURES, SHRUBS, HEDGES OR OTHER PLANTS, BUT EXCLUDING TREES OVER 30" IN HEIGHT SHALL NOT BE PERMITTED WITHIN THE RESTRICTED AREAS EXCEPT AS APPROVED BY THE CITY TRAFFIC ENGINEER.
2. TREES ARE PERMITTED WITHIN THE RESTRICTED AREAS PROVIDED:
  - A. NO LIMBS, LEAVES, NEEDLES OR OTHER FOLIAGE ABOVE 30" OR BELOW 84" ARE PERMITTED.
  - B. TREES ARE PLANTED SO AS NOT TO OBSTRUCT MORE THAN 30% OF THE VISIBILITY WHEN COMBINED WITH OTHER OBSTRUCTIONS PRESENT.



① UNOBSTRUCTED VIEW EASEMENT AREA.

PLAN VIEW

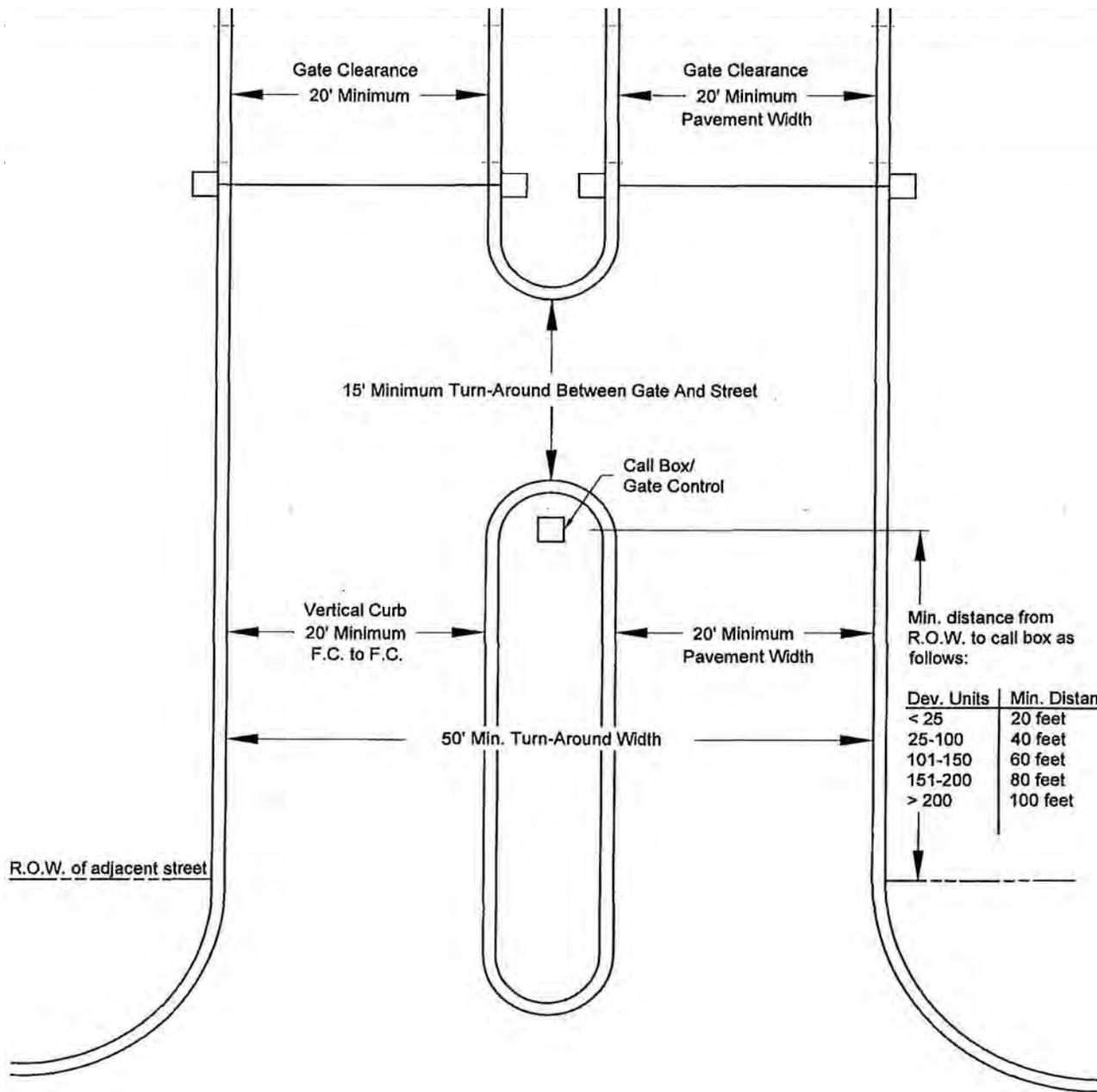


**CITY OF PEORIA STANDARD DETAIL - PE-091**  
**Unobstructed View Easement Requirements for Streets**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



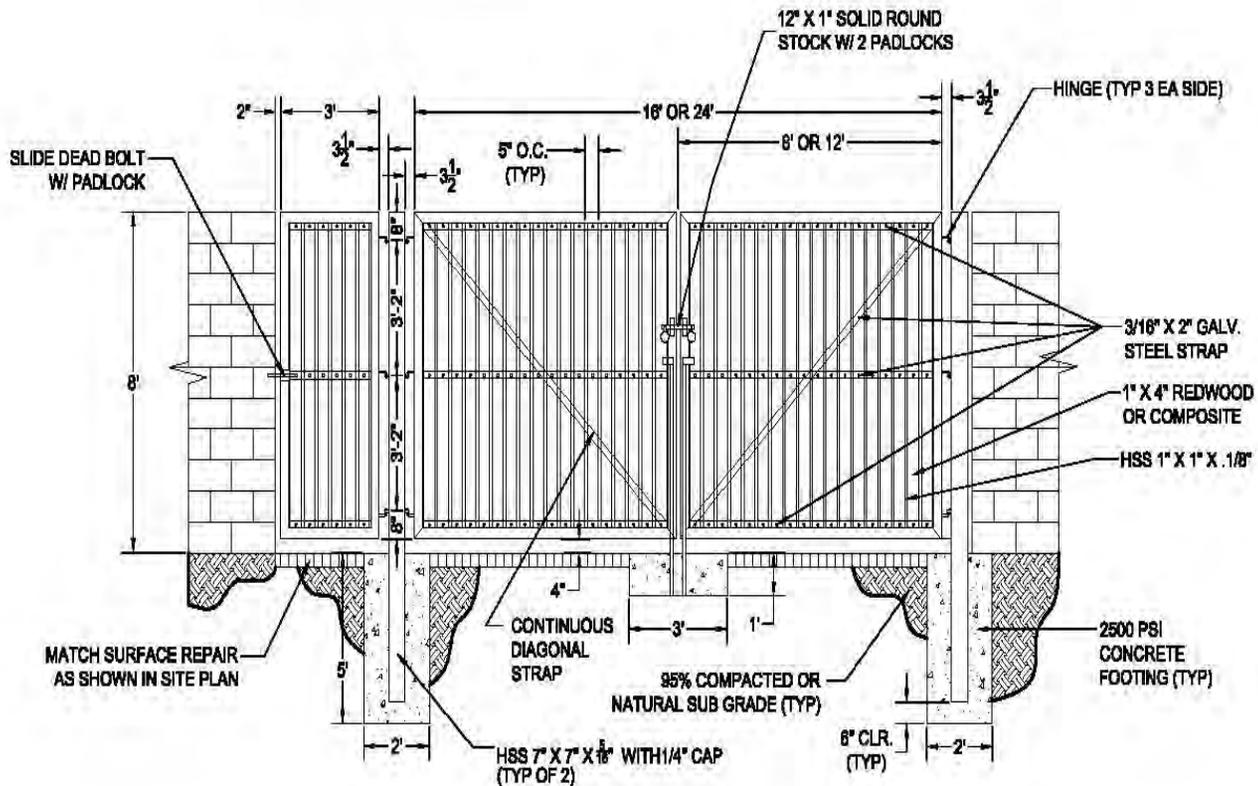
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**CITY OF PEORIA STANDARD DETAIL - PE-100**  
**Minimum Requirements for Gated Entrances to Residential Subdivisions**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

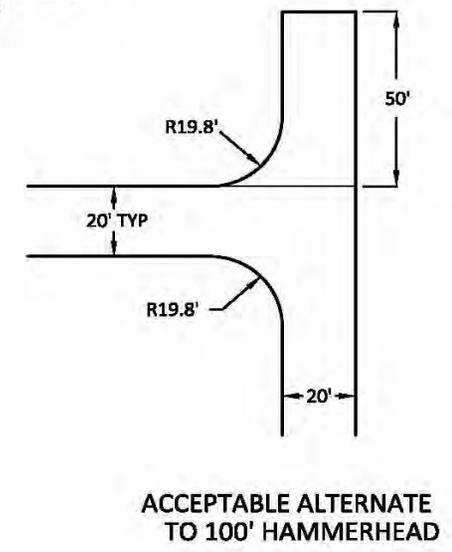
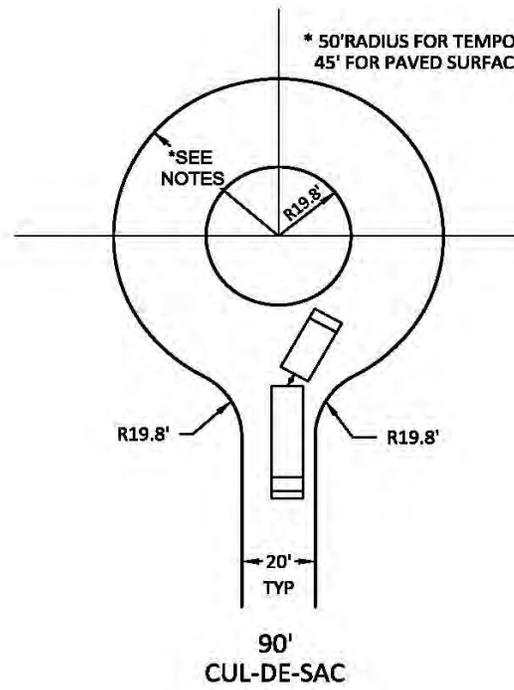
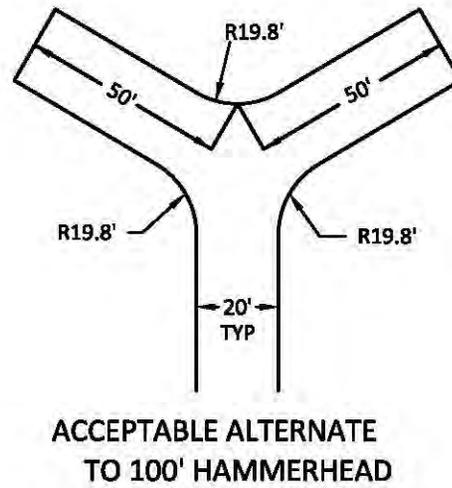
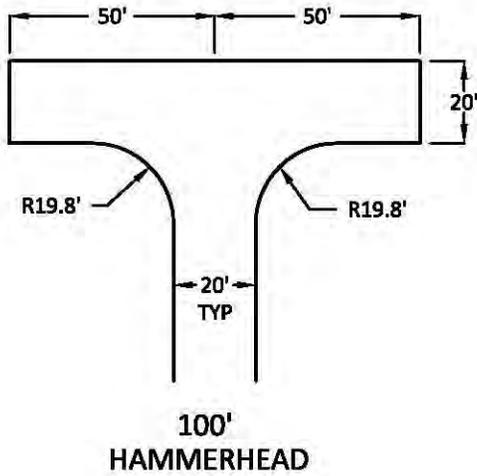
1. FRAME OR GATES AND DOOR TO BE CONSTRUCTED FROM HSS 3"X3"X1/4" WITH WELDED MITRE JOINTS (TOP, BOTTOM, AND SIDE JOINTS)
2. DIAGONAL STRAP TO BE WELDED ON BOTH SIDES OF EACH INTERSECTION WITH HORIZONTAL STRAPS
3. BLOCK AT DOOR OPENING TO BE COVERED WITH 1/4" GALVANIZED FACE PLATE ATTACHED WITH 1/2" ANCHOR BOLT AT 12" O.C
4. REDWOOD SLATS TO BE ATTACHED BY 3/8"X2" CARRIAGE BOLTS, NUT, AND WASHER. NUTS ON INSIDE OF ENCLOSURE (TYP 3 PER SLAT)
5. COMPOSITE MATERIAL OF ACCEPTABLE APPEARANCE AND STRUCTURAL INTEGRITY WILL BE ALLOWED IN PLACE OF THE REDWOOD SLATS



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**CITY OF PEORIA STANDARD DETAIL - PE-102**  
 City Facility Service/Access Gate

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



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**CITY OF PEORIA STANDARD DETAIL - PE-110**  
Fire Truck Turnaround Radius Options

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

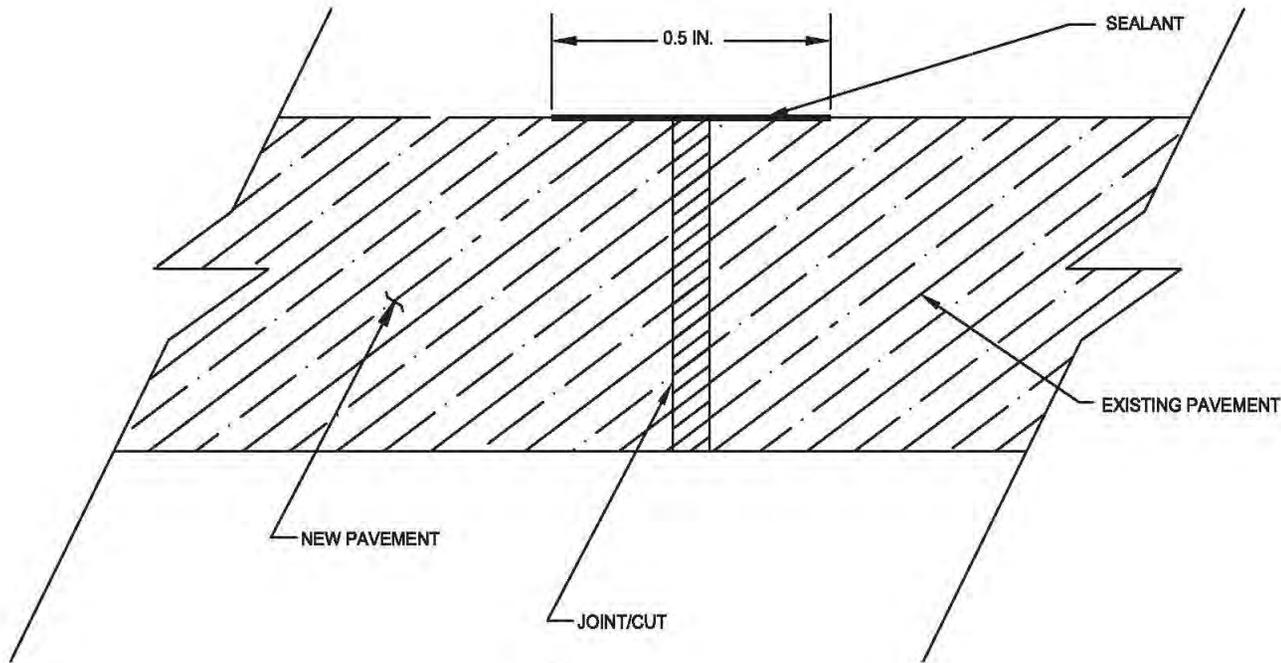
**DETAIL PE-119—DELETED  
REFER TO MAG DETAIL 145**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-119  
Bridge/Overpass Handrail Detail**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

**JOINT/CUT SEALANT PROCEDURE**

1. AFTER PATCH HAS BEEN SUBJECTED TO TRAFFIC FOR AT LEAST ONE WEEK, CLEAN OUT THE PREPARED JOINT/CUT BY USING FORCED AIR (65 psi) WITH A DOWNWARD BLAST INTO THE JOINT AND A VACUUM ATTACHMENT TO VACUUM THE DEBRIS RELEASED.
2. CLEANED JOINT/CUT SHALL BE FREE OF ALL DIRT, DUST, DEBRIS AND MOISTURE IMMEDIATELY PRIOR TO SEALING.
3. FILL JOINT/CUT WITH CRAFCO TYPE III CRACK SEAL OR EQUAL AS APPROVED BY THE CITY INSPECTOR IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. THIS PROCEDURE IS REQUIRED WHEN THE PLACEMENT OF NEW PAVEMENT IS INTERCONNECTING TO EXISTING PAVEMENT, OR AS DIRECTED BY THE CITY ENGINEER.

**N.T.S.**

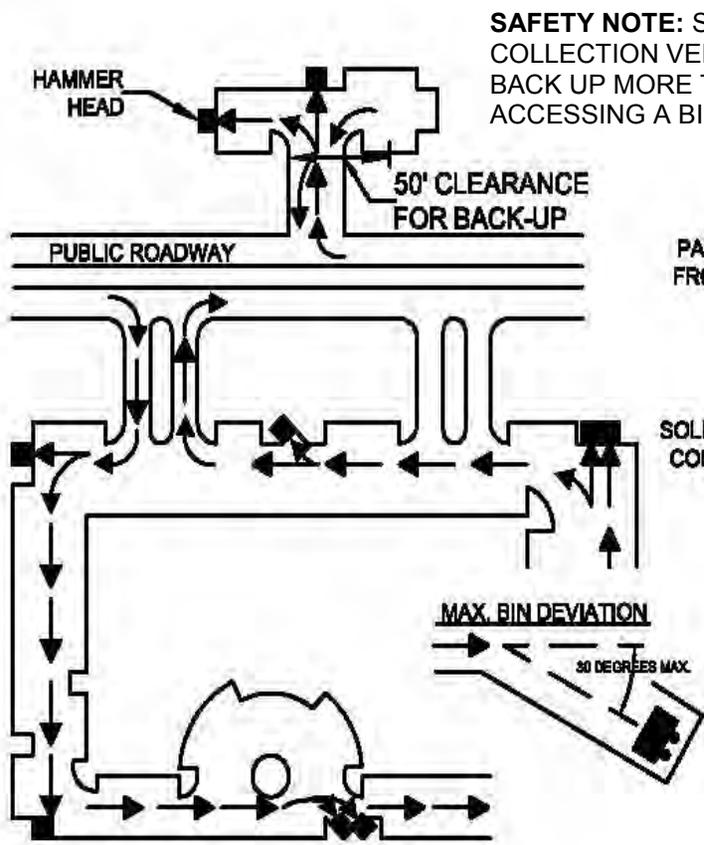


Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL—PE-130**

**Pavement Joint Sealant Detail**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**SAFETY NOTE:** SOLID WASTE COLLECTION VEHICLES WILL NOT BACK UP MORE THAN 50' AFTER ACCESSING A BIN.

**NOTES:**

1. ALL CURBS ARE TO BE ALIGNED ON THE OUTSIDE OF ENCLOSURE WALLS AND NOT INTERFERE WITH THE ROUTE OF THE SOLID WASTE COLLECTION VEHICLE
2. ALL SOLID WASTE COLLECTION ROUTES SHALL MEET ENGINEERING DESIGN CRITERIA IN A MANNER THAT ALLOWS SOLID WASTE COLLECTION VEHICLES ACCESS TO BIN ENCLOSURE SITES SAFELY AND LIFTING OF BIN WITHOUT OBSTRUCTION
3. BIN LOCATIONS WILL BE DETERMINED SO THAT SOLID WASTE COLLECTION VEHICLES WILL NOT BACK UP MORE THAN 50 FEET AFTER ACCESSING A BIN
4. NO AWNINGS OR PROJECTIONS FROM BUILDINGS ALONG SOLID WASTE COLLECTION ROUTES. A MINIMUM OVERHEAD CLEARANCE OF 14' IS REQUIRED IN DRIVE AND 25' OVER BIN ENCLOSURE AREA FROM THE STEEL SAFETY POSTS BACK 50'. THE ROUTE SHALL BE CLEAR OF ALL OBSTRUCTIONS, INCLUDING OVERHEAD, TO PREVENT DAMAGE FROM THE COLLECTION VEHICLE
5. COLLECTION VEHICLE ROUTES SHALL BE DESIGNED TO ALLOW THE VEHICLE TO TRAVEL THROUGH A SITE ONCE IN A FORWARD PATH
6. BIN ENCLOSURES SHALL BE ANGLED NO MORE THAT 30° FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE
7. BIN ENCLOSURES SHALL BE LOCATED AWAY FROM ENTRANCE AND EXITS SO SOLID WASTE COLLECTION VEHICLE DOES NOT CREATE A SAFETY HAZARD BY BLOCKING IN-COMING OR OUT-GOING TRAFFIC
8. STANDARDS FOR SINGLE, DOUBLE, AND TRIPLE-WIDE BIN ENCLOSURES ARE ADDRESS IN PE-146-2 AND PE-146-3
9. STANDARDS FOR BIN ENCLOSURE SCREEN WALLS, SAFETY POSTS AND GATES ARE ADDRESSED IN PE-146-4

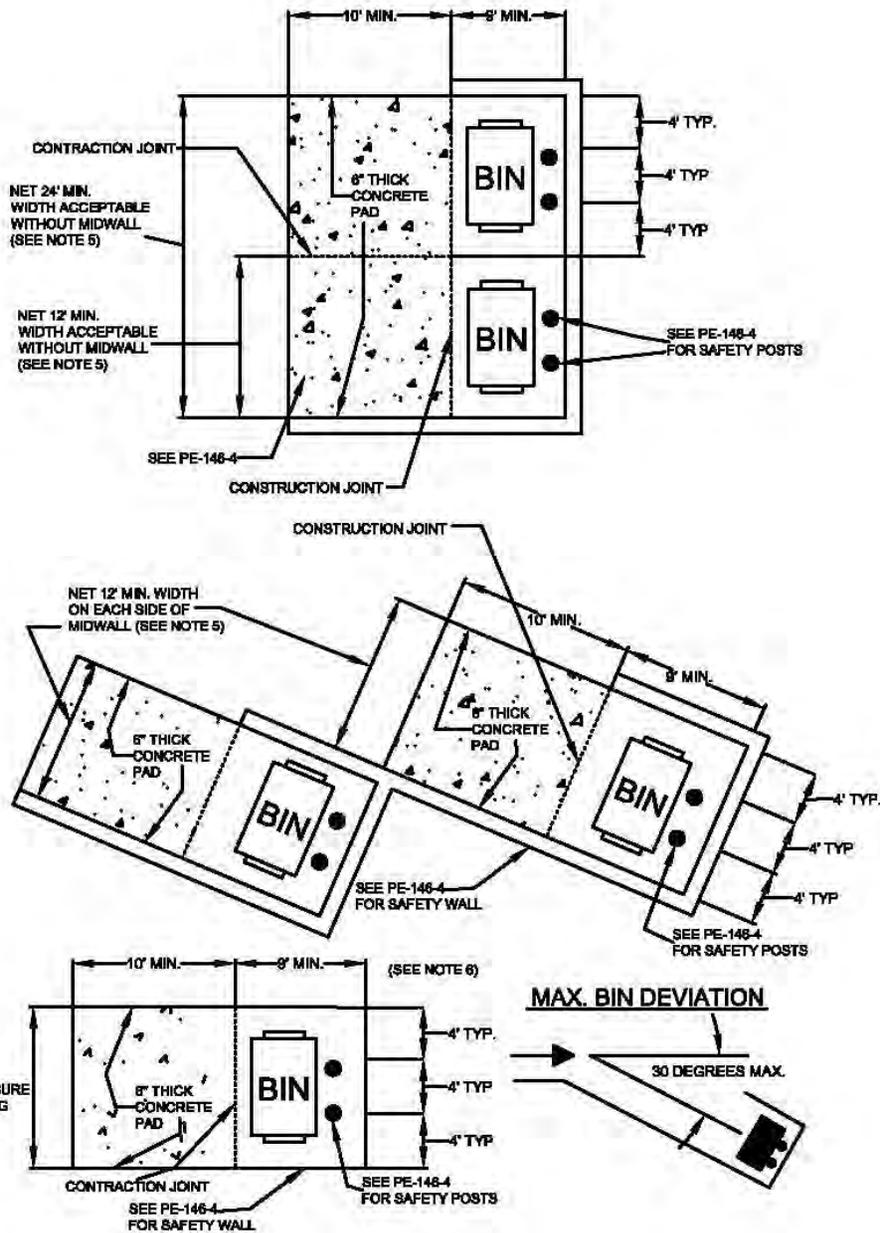
SOLID WASTE VEHICLES WEIGH APPROXIMATELY 20 TONS WHEN FULL. DRIVEWAYS MUST BE BUILT TO SUPPORT THIS WEIGHT WITHOUT DAMAGE TO THE DRIVING PATH

**CITY OF PEORIA STANDARD DETAIL - PE-146-1**  
**Solid Waste Vehicle Access**



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THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

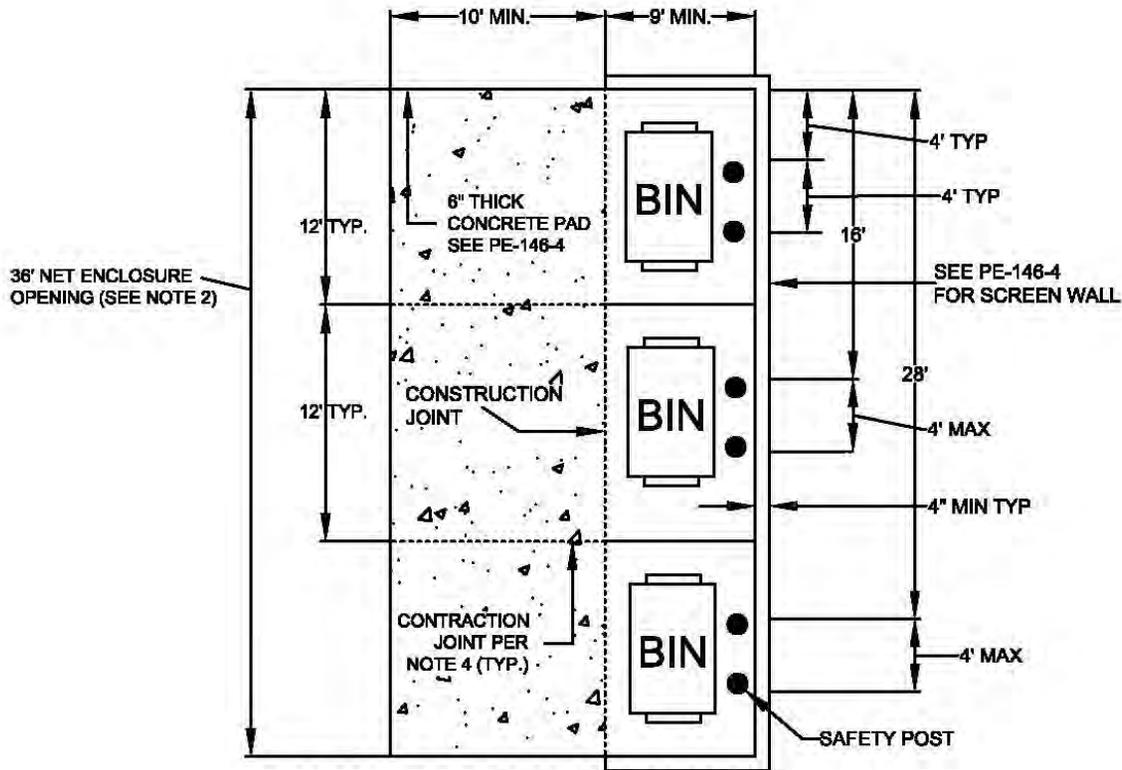
1. ALL NON-RESIDENTIAL PROPERTIES SHALL BE DESIGNED WITH BIN ENCLOSURES TO ACCOMMODATE REFUSE/RECYCLE BINS, WITH 1 BIN FOR EVERY 20,000 S.F. OF BUILDING SPACE. A MINIMUM OF 2 REFUSE/RECYCLE BINS SHALL BE ACCOMMODATED. THE ENCLOSURES CAN BE SET UP AS DOUBLES OR SINGLES TO MAXIMIZE THE USE OF THE PROPERTY
2. MULTI-UNIT RESIDENTIAL DEVELOPMENTS SHALL BE DESIGNED WITH BIN ENCLOSURES AND ACCOMMODATE A MINIMUM OF 2 REFUSE/RECYCLE BINS WITH EITHER SINGLE OR DOUBLE-WIDE ENCLOSURES
3. COMPACTORS CAN BE USED IN DEVELOPMENTS WHERE THE EMPLOYEES LOAD AND ACTIVATE THE COMPACTING EQUIPMENT. DEVELOPMENTS THAT ALLOW CUSTOMERS OR RESIDENTS ACCESS TO THE COMPACTING EQUIPMENT WILL NOT BE APPROVED. MARICOPA COUNTY REGULATIONS REQUIRE TWICE PER WEEK COLLECTION IF FOOD WASTE IS PLACED IN TO CONTAINERS
4. THE NUMBER OF REFUSE/RECYCLE BINS NEEDED FOR MULTI-UNIT RESIDENTIAL DEVELOPMENT DEPENDS ON THE SIZE OF THE DEVELOPMENT. THE MINIMUM, TOTAL VOLUME CAPACITY IS DETERMINED FROM THE CALCULATION OF 0.5 CY/LIVING UNIT/WEEK. FOR EXAMPLE, A DEVELOPMENT WITH 240 UNITS X 0.5 CY = 120 CY/WEEK OR 10 TRASH BINS (6 CY) SERVICED TWO TIMES/WEEK (10X6X2=120 CY)
5. SINGLE-WIDE BIN ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 12'
6. DOUBLE-WIDE BIN ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 24' WITHOUT MIDWALLS. ALTHOUGH NOT PREFERRED, DOUBLE-WIDE BIN ENCLOSURES CAN BE DESIGNED WITH MIDWALLS WITH A NET ENCLOSURE OPENING OF 12' ON EACH SIDE OF MIDWALL.
7. GATES, HINGES AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9' DEPTH CREATED WITHIN EACH ENCLOSURE AND NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING.
8. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30° FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE
9. ALL ENCLOSURES SHALL HAVE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW
10. BIN ENCLOSURES TO BE A MINIMUM OF 3' FROM ANY NON-COMBUSTIBLE PLANNED OR EXISTING STRUCTURES AT ITS CLOSEST POINT; 5' FROM ANY COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT
11. THE FOLLOWING DETAILS CAN BE REFERENCED FOR ADDITIONAL BIN ENCLOSURE INFORMATION: PE-146-1—ACCESS; PE-146-3—TRIPLE-WIDE ENCLOSURES; PE-146-4—SCREEN WALLS, SAFETY POSTS, GATES
12. RESTAURANTS MUST PROVIDE A SEPARATE ENCLOSED AREA TO ACCOMMODATE THEIR GREASE TRAP. THIS DESIGNATED AREA MUST NOT INTERFERE WITH THE REFUSE/RECYCLING COLLECTION
13. ADDITIONAL ITEMS SUCH AS LANDSCAPING CONTROL BOXES AND LIGHTING MAY BE POSITIONED ON THE OUTSIDE OF THE ENCLOSURE WALLS
14. A CONNECTION TO THE WATER SYSTEM (INSTALLATION OF HOSE BIB) SHALL NOT BE ALLOWED TO FACILITATE CLEANING OF THE ENCLOSURE
15. A CONNECTION TO THE SEWER SYSTEM (INSTALLATION OF GRATE/DRAIN) SHALL NOT BE ALLOWED TO FACILITATE THE WASH DOWN AND CLEANING OF THE ENCLOSURE



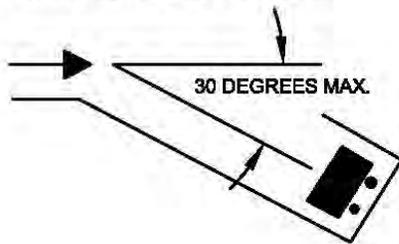
Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-146-2**  
**Single and Double-Wide Bin Enclosures**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**MAX. BIN DEVIATION**



**NOTES:**

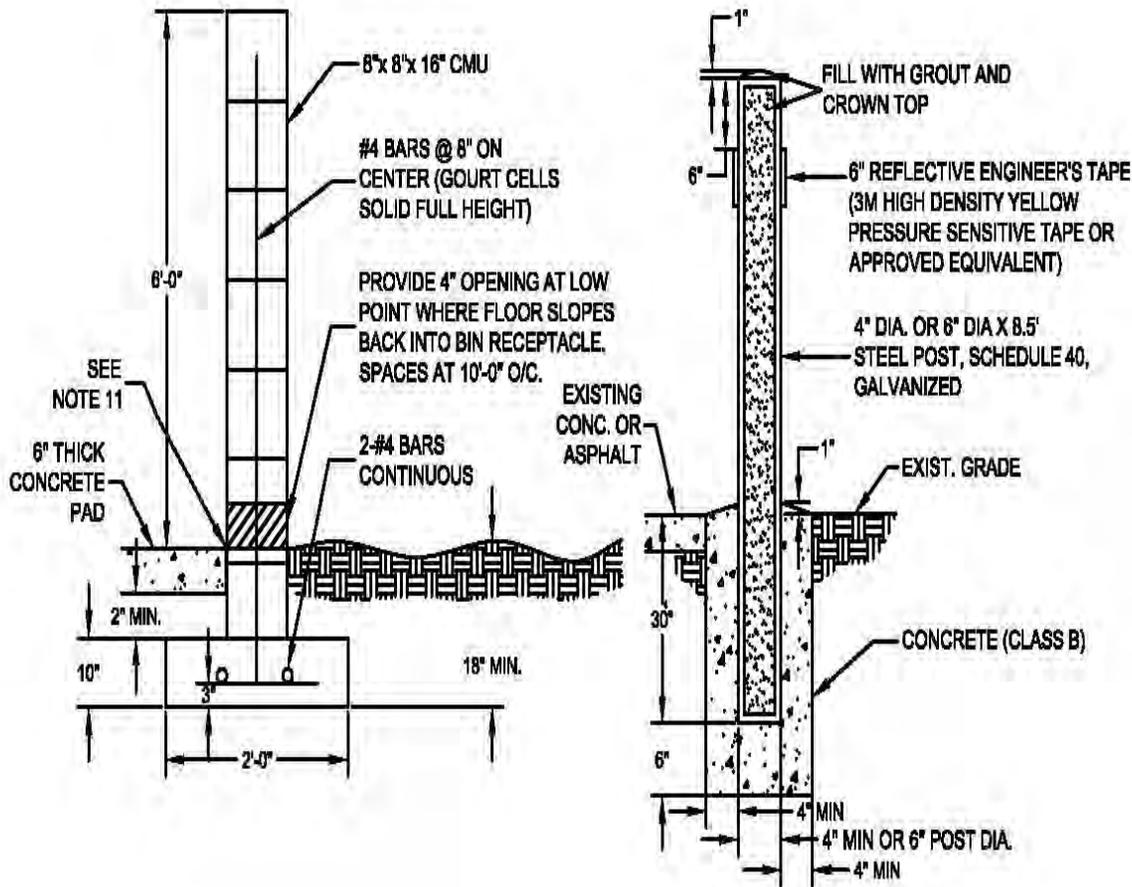
1. TRIPLE-WIDE ENCLOSURES SHALL HAVE A NEW ENCLOSURE OPENING OF 36' AND SHALL BE DESIGNED WITHOUT MIDWALLS, GATE HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING
2. GATES, HINGES, AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9' DEPTH CREATED WITHIN EACH ENCLOSURE
3. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30° FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE
4. CONTRACTION JOINTS MAY BE EITHER SCORED OR SAWCUT TO A 1" DEPTH



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**CITY OF PEORIA STANDARD DETAIL - PE-146-3**  
**Triple-Wide Bin Enclosures**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

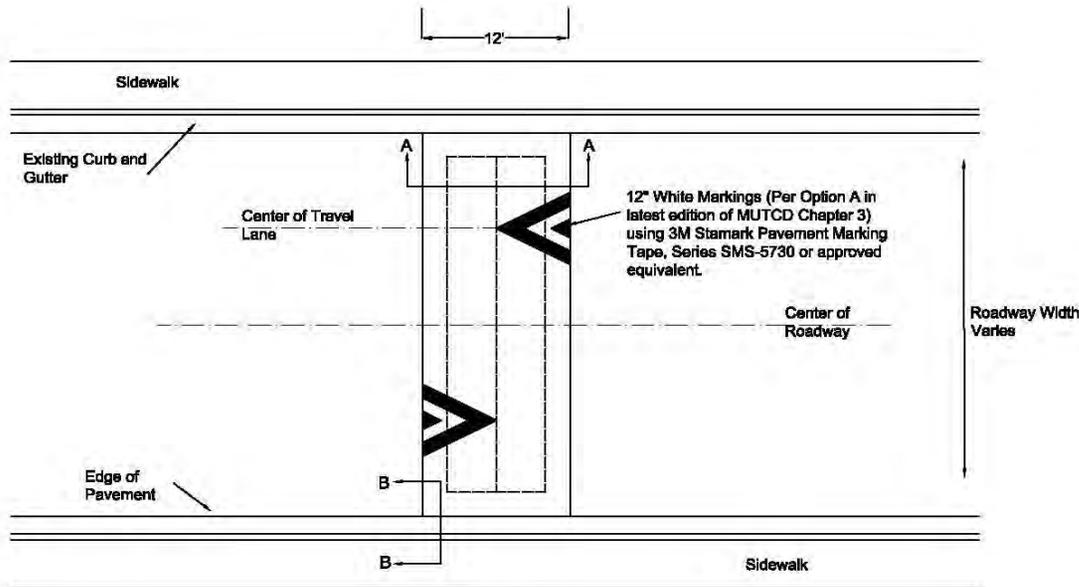
1. REFUSE AND RECYCLING BIN AREA SHALL BE SCREENED WITH A 6' MASONRY WALL PER DETAIL ON THIS SHEET
2. BIN ENCLOSURE TO BE A MINIMUM OF 3' FROM ANY PLANNED OR EXISTING STRUCTURES AT ITS CLOSEST POINT
3. ALL ENCLOSURES SHALL HAVE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW
4. GATES SHALL BE INSTALLED SO THERE IS A NET BIN ENCLOSURE OPENING OF 12' PER BIN. GATES, HINGES AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING
5. GATES, HINGES AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9" DEPTH CREATED WITHIN EACH ENCLOSURE
6. EACH ENCLOSURE GATE SHALL HAVE DROP PINS INSTALLED AND HOLES DRILLED IN THE CONCRETE AT BOTH THE OPEN AND CLOSED POSITIONS TO PREVENT GATES FROM CLOSING INTO THE COLLECTION VEHICLE
7. BIN ENCLOSURE SHALL HAVE 2-4" DIAMETER STEEL SAFETY POSTS INSTALLED IN THE BACK OF THE ENCLOSURE ONLY PER DETAIL ON THIS SHEET
8. SAFETY POSTS SHALL HAVE A HEIGHT OF 6' OR BE EQUAL TO THE HEIGHT OF THE BACK SCREEN WALL OF THE ENCLOSURE. SAFETY POSTS SHALL BE PLACED A MINIMUM OF 4" FROM THE WALL
9. USE CLASS "A" CONCRETE EXCEPT AS NOTED IN SAFETY POST DETAIL ON THIS SHEET
10. STEEL REINFORCEMENT SHALL BE GRADE 40
11. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER ASTM D-1751
12. EXTERIOR FINISH OF 6' MASONRY SCREEN WALLS SHALL BE COORDINATED ARCHITECTURALLY WITH PRIMARY BUILDING FINISHES
13. SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6" AND TO A MINIMUM DRY DENSITY OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION
14. OTHER DETAILS APPLICABLE AND REFERENCED ARE PE-146-1—ACCESS; PE-146-2 & PE-146-3 SINGLE/DOUBLE/TRIPLE BIN ENCLOSURES



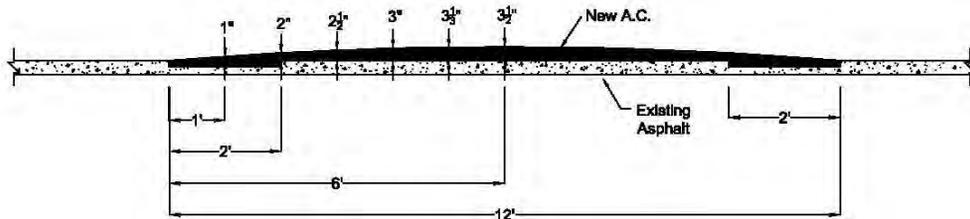
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**CITY OF PEORIA STANDARD DETAIL - PE-146-4  
Bin Enclosure Screen Wall, Safety Post & Gate Standards**

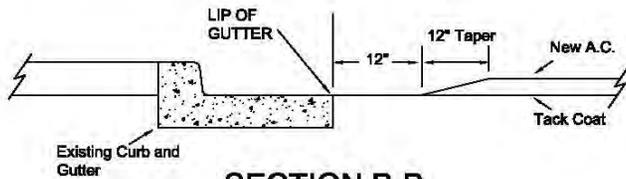
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**PLAN VIEW**



**SECTION A-A**



**SECTION B-B**

**NOTES:**

1. SPEED HUMPS SHALL BE 3.5" HIGH WITH AN ALLOWABLE MAXIMUM TOLERANCE OF  $\pm 0.25"$ .
2. SPEED HUMPS SHALL NOT BE PLACED OVER MANHOLES, WATER VALVES, SURVEY MONUMENTS, JUNCTION CHAMBERS, IN CONFLICT WITH DRIVEWAYS, OR ADJACENT TO FIRE HYDRANTS.
3. SPEED HUMP/CUSHIONS SHALL BE CONSTRUCTED WITH D1/2 LOW-VOLUME MIX, PER THE CITY OF PEORIA APPROVED MATERIALS LIST. EDGES SHALL BE MILLED PRIOR TO APPLICATION OF PAVEMENT
4. PERMANENT STRIPING SHALL BE THERMOPLASTIC HOT TAPE OR 3M STA-MARK SERIES SMS-5730 OR APPROVED EQUIVALENT
5. SPEED HUMP MARKINGS SHALL BE INSTALLED PER FIGURE 3B-29, OPTION A OF THE 2009 MUTCD



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**CITY OF PEORIA STANDARD DETAIL - PE-210-1  
Speed Hump**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

# DETAIL PE-210-2—DELETED



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**CITY OF PEORIA STANDARD DETAIL - PE-210-2**  
**Speed Table**

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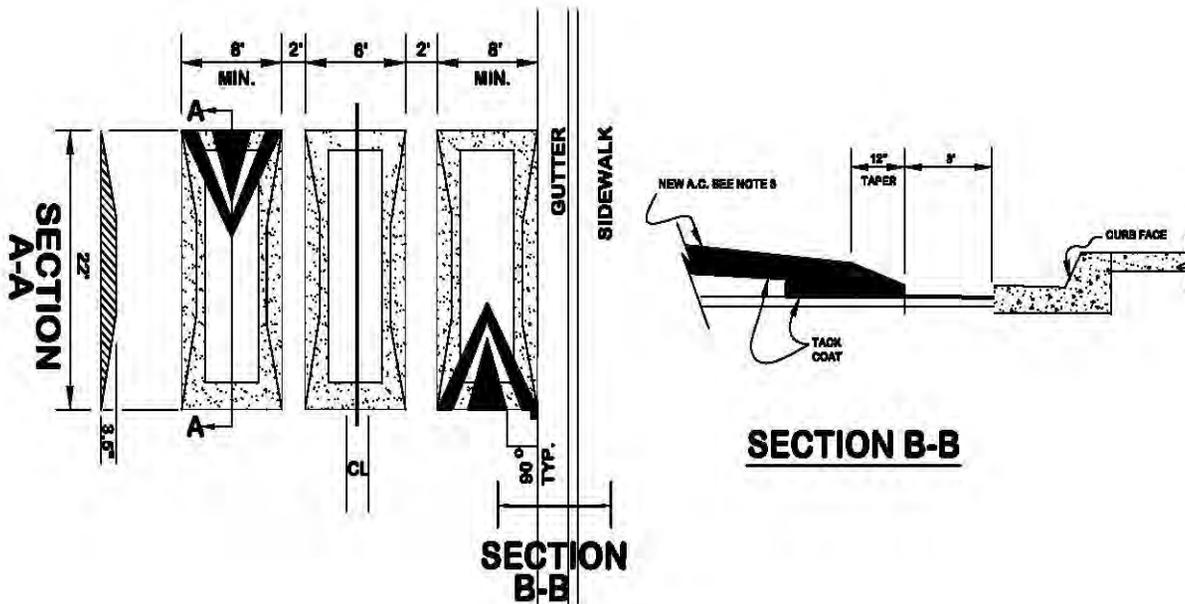
# DETAIL PE-210-3A—DELETED



Rev. 01/2019

CITY OF PEORIA STANDARD DETAIL - PE-210-3A  
12' Speed Cushion

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. MODIFIED SPEED CUSHIONS SHALL BE 3.5" HIGH WITH AN ALLOWABLE MAXIMUM TOLERANCE OF  $\pm 0.25"$
2. MODIFIED SPEED CUSHIONS SHALL NOT BE PLACED OVER MANHOLES, WATER VALVES, SURVEY MONUMENTS, JUNCTION CHAMBERS, IN CONFLICT WITH DRIVEWAYS, OR ADJACENT TO FIRE HYDRANTS
3. SPEED CUSHIONS SHALL BE CONSTRUCTED WITH D 1/2 LOW-VOLUME MIX PER THE CITY OF PEORIA APPROVED MATERIALS LIST. EDGES SHALL BE MILLED PRIOR TO APPLICATION OF PAVEMENT
4. PERMANENT STRIPING SHALL BE THERMOPLASTIC HOT TAPE OR 3M STA-MARK SERIES SMS-5730 OR APPROVED EQUIVALENT
5. SPEED CUSHION MARKINGS SHALL BE INSTALLED PER FIGURE 3B-29, OPTION A OF THE 2009 MUTCD

**CITY OF PEORIA STANDARD DETAIL - PE-210-3B**  
**Speed Cushion**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



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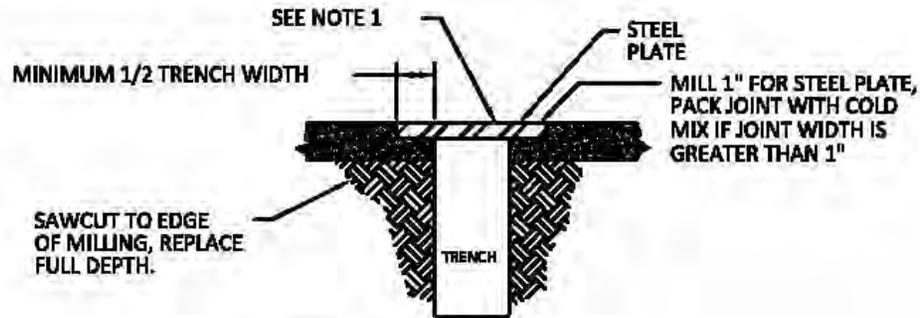
# DETAIL PE-210-3C—DELETED



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-210-3C**  
**Speed Cushion Pavement Markings**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

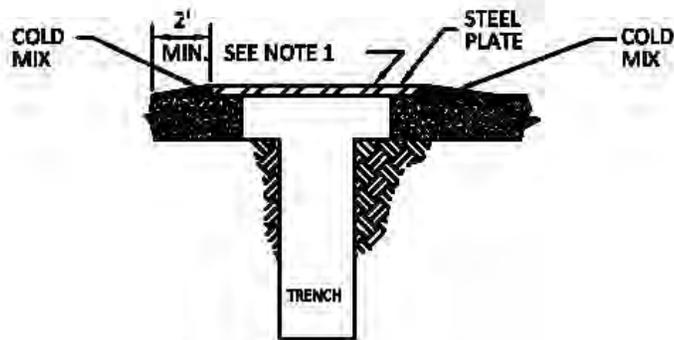


**TYPE "A" PLATING**

**CITY POSTED SPEEDS OF  
GREATER THAN 25 MPH  
OR BUS & TRUCK ROUTE**

**NOTES:**

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE OVERLAP OF PLATE ON ASPHALT TO ASSURE NO SLIPPAGE OF PLATE AND NO COLLAPSING OF TRENCH
2. "POSTED SPEED" DOES NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING



**TYPE "B" PLATING**

**CITY POSTED SPEEDS OF  
25 MPH AND UNDER**



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**CITY OF PEORIA STANDARD DETAIL - PE-211  
Trench Plating**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**DETAIL PE-241-2—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



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**CITY OF PEORIA STANDARD DETAIL - PE-241-2  
Standard Curb Ramp—Slopes**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-3—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-3  
Standard Dual Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-4—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-4  
Standard Dual Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-421-5A—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, &3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-5A  
Standard Single Curb Ramp (Dimensions)**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**DETAIL PE-241-5B—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-5B  
Standard Single Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-5C—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-5C  
Standard Single Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-6—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-6  
Standard Single Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-7—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-7  
Standard Single Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-8—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-8  
Compact Ramp (Slopes)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THIS CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-9—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-9  
Compact Dual Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-10—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-10  
Compact Single Curb Ramp (Slopes)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

**DETAIL PE-241-11—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, & 3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-11  
Compact Single Curb Ramp (Dimensions)**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

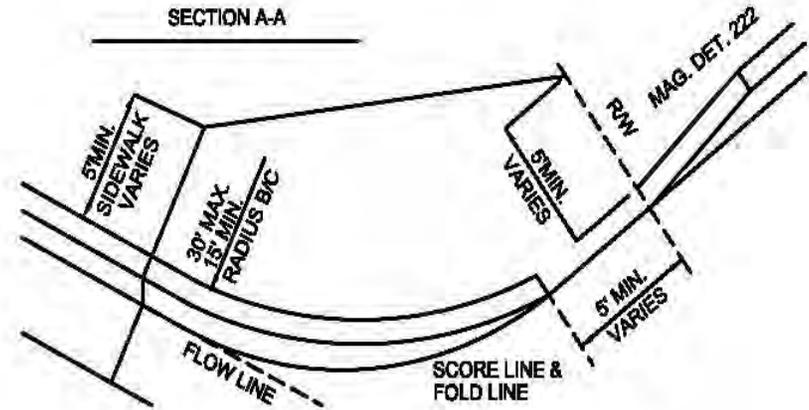
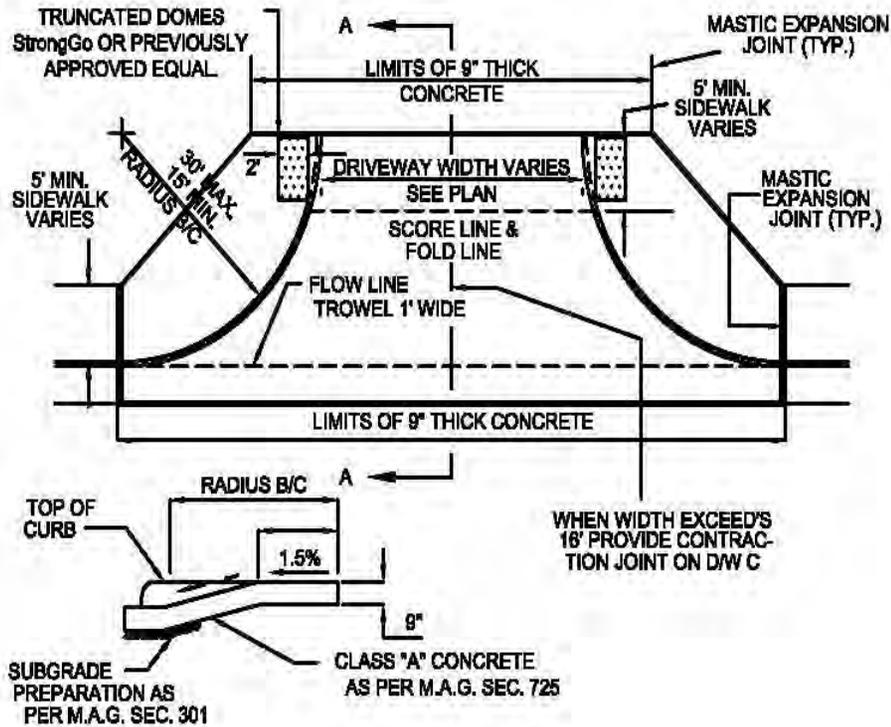
**DETAIL PE-241-12—DELETED  
PLEASE REFER TO  
MAG 237-1, 2, &3**



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-241-12  
Compact Dual Curb Ramp (Dimensions) for Streets with 4" Curb**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

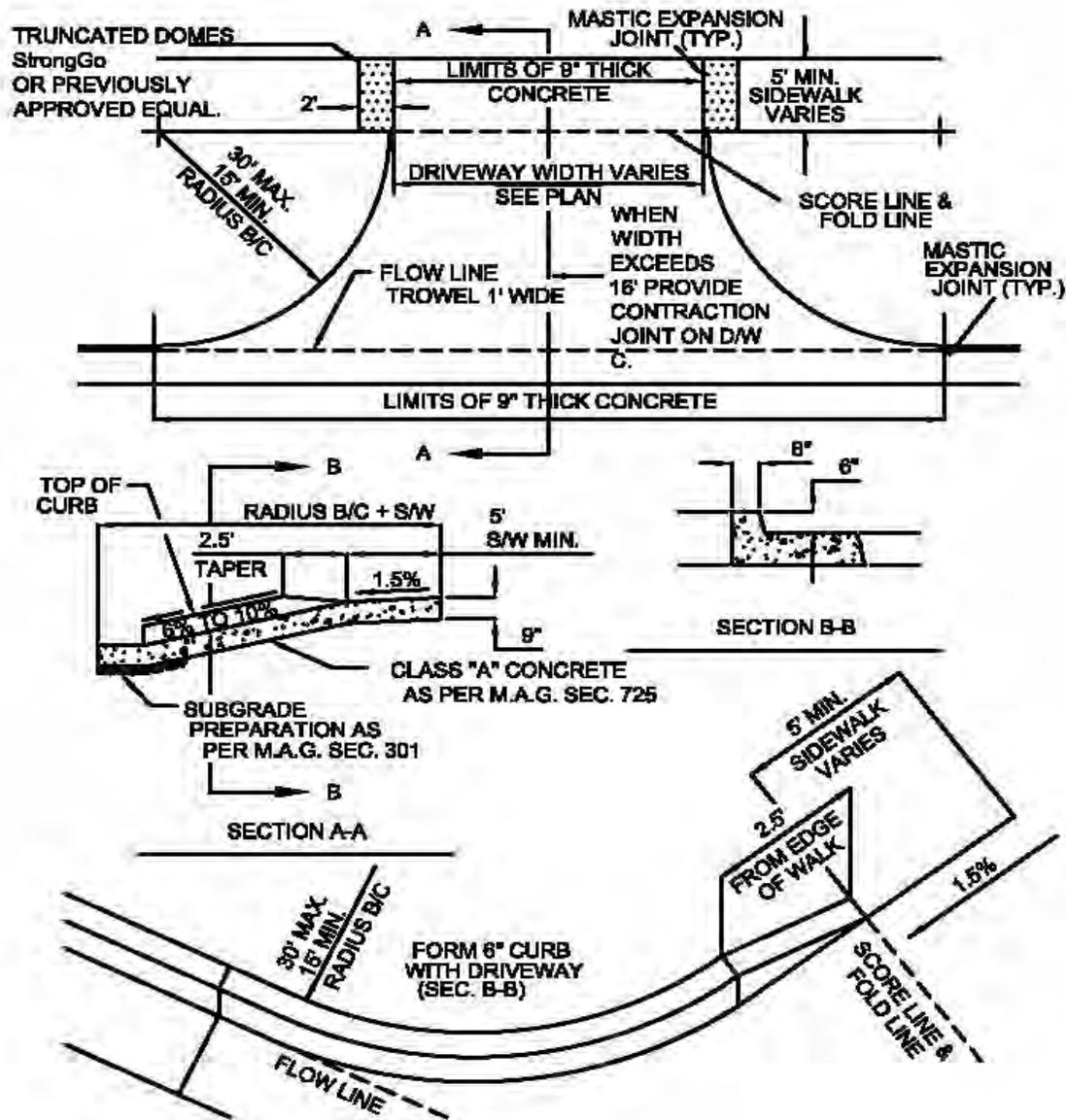
1. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PRE-FORMED EXPANSION JOINT FILLER, ASTM D-1751
2. TRUNCATED DOMES MAY BE DELETED FOR LOW VOLUME, RESIDENTIAL, OR OTHER DRIVEWAY LOCATIONS, SUBJECT TO APPROVAL BY CITY TRAFFIC ENGINEER

**CITY OF PEORIA STANDARD DETAIL - PE-251-1**  
**Return Type Driveways with Attached Sidewalks**



Rev. 01/2019

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PRE-FORMED EXPANSION JOINT FILLER, ASTM D-1751
2. TRUNCATED DOMES MAY BE DELETED FOR LOW VOLUME, RESIDENTIAL, OR OTHER DRIVEWAY LOCATIONS, SUBJECT TO APPROVAL BY CITY TRAFFIC ENGINEER



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-251-2**  
**Return Type Driveways with Detached Sidewalks**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

	RESIDENTIAL		COMMERCIAL/INDUSTRIAL	
	SINGLE	MULTI	SINGLE	MULTI
Standard Construction Detail	City of Phoenix P1255-1* (1)	PE-251-1 or PE-251-2	PE-251-1 or PE-251-2	PE-251-1 or PE-251-2
Standard Width (Two Way)	16'	24'	30'	30'
Minimum Width (Two Way)	16'	24'	24'	24'
Maximum Width (Two Way)	24'	40' (2)	30'	40' (2)
Minimum Space Between Drives (Inside Edge to Inside Edge)	10'	(4)	(4)	(4)
Minimum Distance from Intersection (Nearest P.C. to Inside Edge)	25'	(5)	(5)	(5)
Maximum Number of Drives	1 (6)		Per Traffic Impact Analysis (TIA)	

**NOTES:**

1. DETAIL PE-251-1 OR PE-251-2 MAY BE USED ON ARTERIAL STREETS.
2. CAN OCCUR WITH HIGH VOLUME DRIVEWAYS WITH TWO OUTBOUND APPROACH LANES. IT WILL REQUIRE DECELERATION LANE UNLESS OTHERWISE APPROVED BY THE TRAFFIC ENGINEER, AND CAN BE INCREASED TO 46' WITH ADDITION OF RAISED MEDIAN.
3. ALL DRIVEWAY WINGS OR P.C.'S WILL BEGIN NO CLOSER THAN 5' FROM ANY PROPERTY LINE.
4. SEE CITY OF PEORIA TIA GUIDELINES.
5. SEE CITY OF PEORIA TIA GUIDELINES.
6. TWO DRIVEWAYS MAY BE PERMITTED FOR PROPERTIES WITH A MINIMUM OF 85' OF FRONTAGE PER CITY OF PEORIA ZONING ORDINANCE 21-875B.

**\* MODIFY P1255-1 WITH 4' WIDE PEDESTRIAN ACCESS ROUTE.**

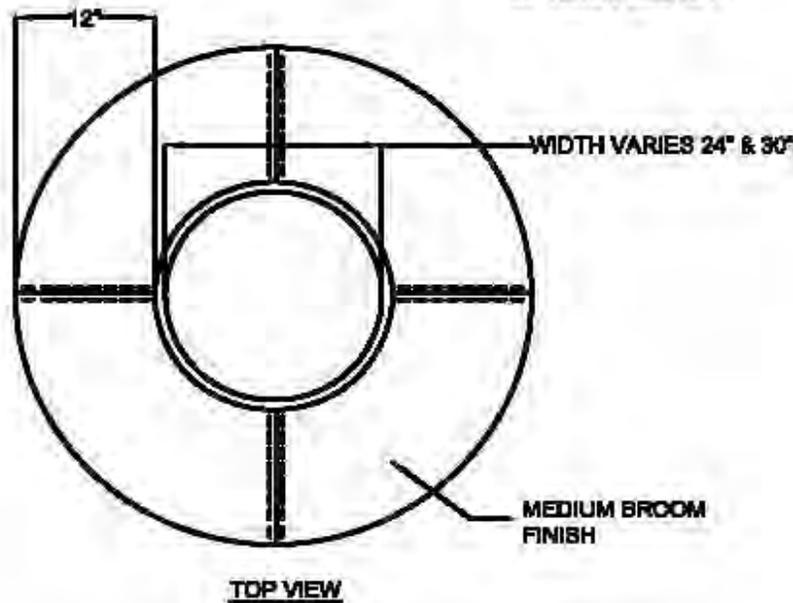
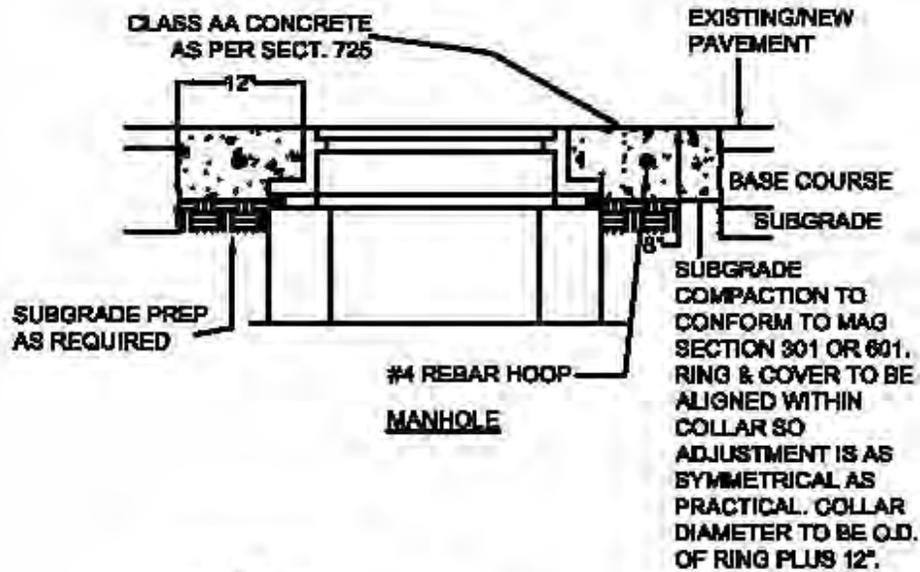


Rev. 05/2019

**CITY OF PEORIA STANDARD DETAIL - PE-251-3  
Driveway Criteria**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**





**NOTES:**

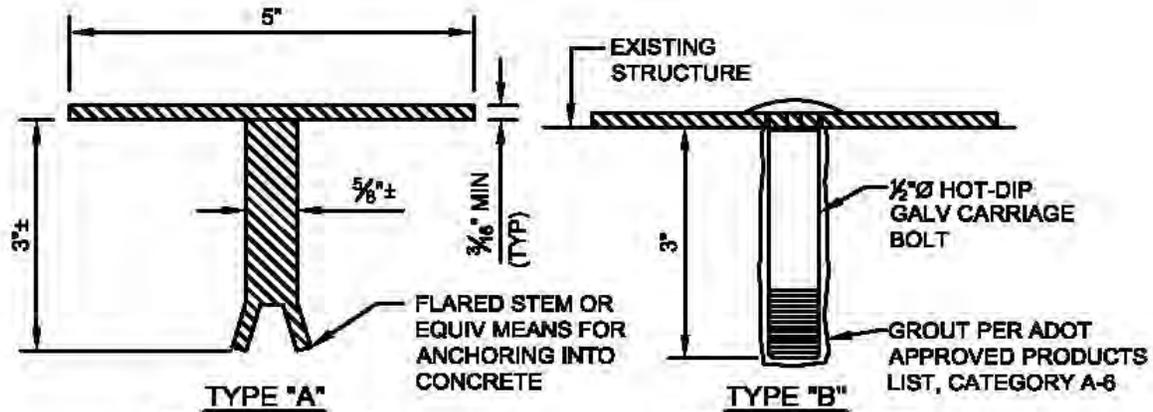
1. IN PAVED MAJOR ARTERIAL STREETS, CONCRETE COLLARS SHALL BE SCORED RADIALLY AT QUARTER-CIRCLE POINTS AND SCORES SHALL BE 1/4" WIDE BY 1/2" DEEP. CONCRETE SURFACE SHALL BE ROUGH BROOM FINISHED. NO TRAFFIC SHALL BE ALLOWED ON COLLARS UNTIL CONCRETE REACHES MINIMUM 2500 PSI ON ALL STREETS
2. LETTERS ON COVER TO BE AS FOLLOWS: "SEWER", "WATER", "STORM" OR "SURVEY" AS DIRECTED. TOTAL WIDTH OF WORD "SEWER" OR "WATER" 3-3/4". TOTAL WIDTH OF WORD "SURVEY" 4-1/2". LETTER SIZE 5/8"x3/4", RAISED 1/16" ABOVE LEVEL FO COVER. TYPE OF LETTERS TO BE SUBMITTED FOR APPROVAL. CASTING TO CONFORM TO SECT 787
3. COMPACTION TO CONFORM TO SECT 301 OR 601



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-271**  
**Manhole Adjustments**

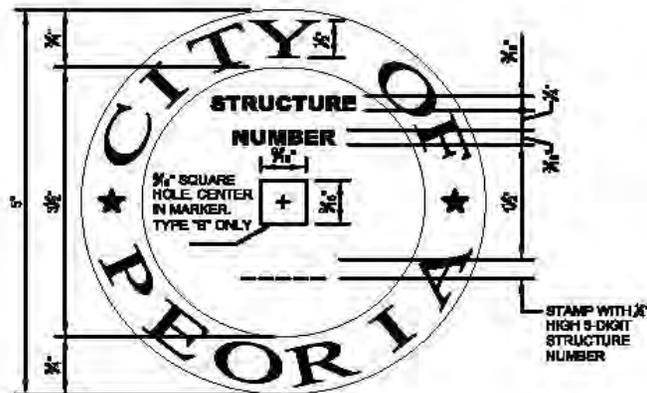
THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



ANCHOR STEM IN TO WET CONCRETE. STEMS SHALL BE INSULATED FROM AND 1" CLEAR OF REINFORCING STEEL.

SECURE MARKER WITH EPOXY GROUTED CARRIAGE BOLT (ROUND HEAD W/ SQ NECK)

MATERIAL: ALUMINUM 6000 SERIES, RED BRASS OR BRONZE

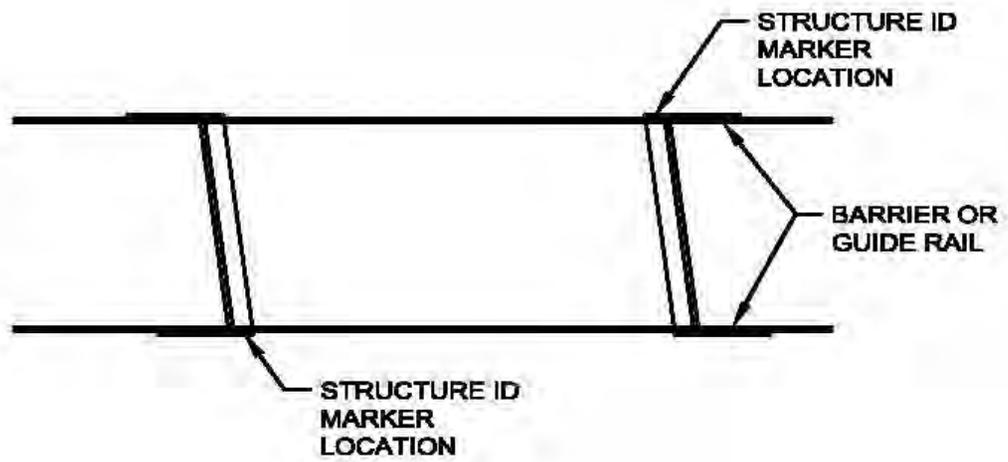
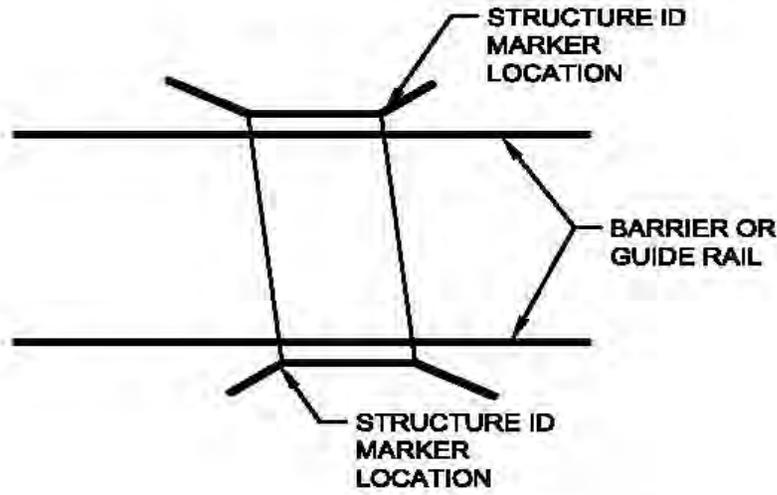


**CITY OF PEORIA STANDARD DETAIL - PE-280-1**  
**Bridge and Culvert Structure Identification Markers**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



Rev. 01/2019



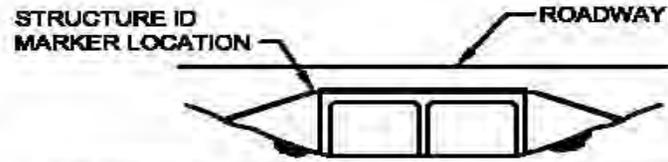
LOCATE STRUCTURE ID MARKER ON THE TOP OF THE FIRST  
WINGWALL, RIGHT SIDE OF THE BRIDGE APPROACH  
LOOKING TOWARDS THE BRIDGE.

**CITY OF PEORIA STANDARD DETAIL - PE-280-2**  
**Bridge and Culvert Structure Identification Markers**

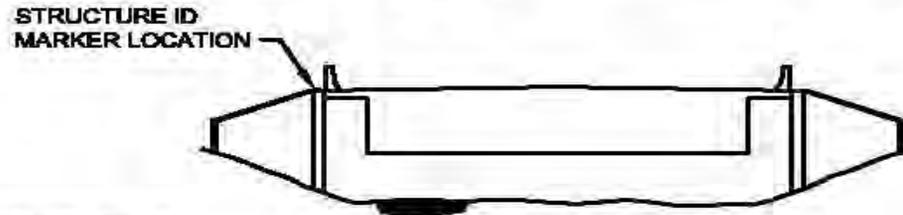
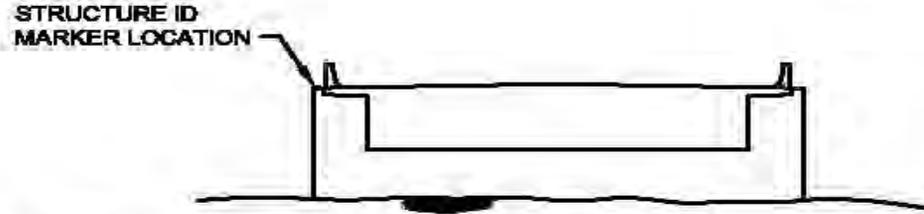


Rev. 01/2019

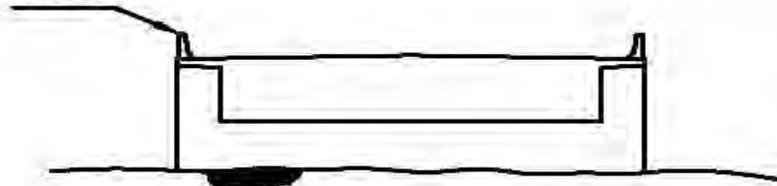
THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



LOCATE STRUCTURE ID MARKER ON TOP OF WINGWALL,  
LEFT SIDE OF CULVERT, FACING CULVERT OPENING



ALT STRUCTURE ID  
MARKER LOCATION WHEN  
TOP OF WINGWALL IS NOT  
ACCESSIBLE



LOCATE STRUCTURE ID MARKER ON TOP OF WINGWALL,  
LEFT SIDE OF ABUTMENT, FACING ABUTMENT



Rev. 01/2019

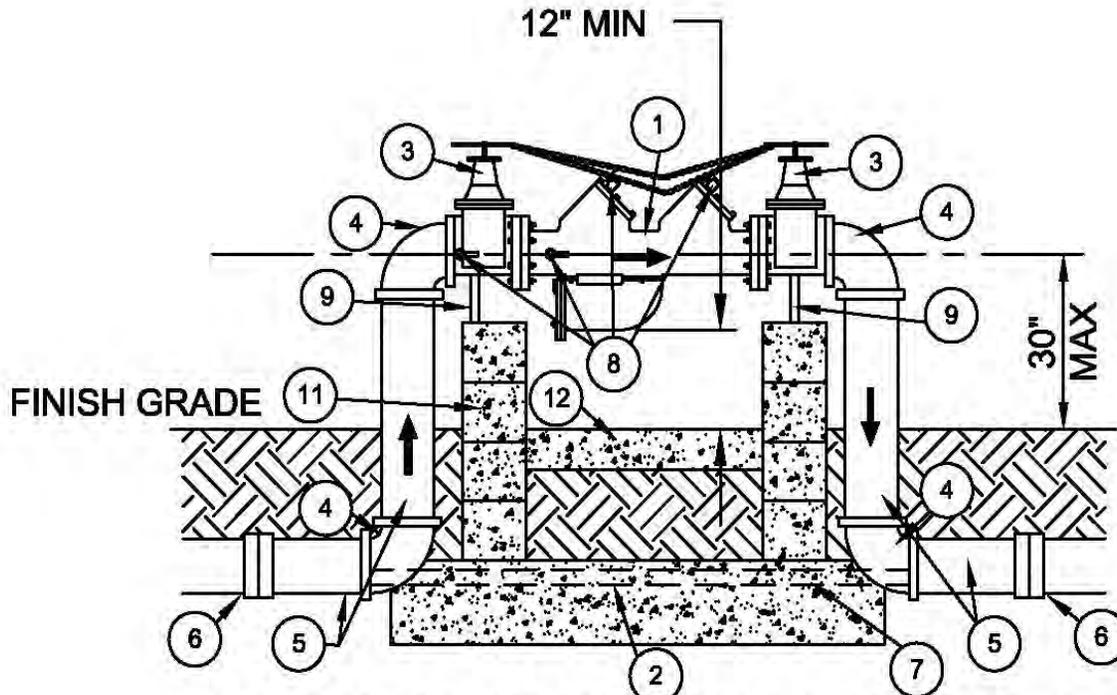
**CITY OF PEORIA STANDARD DETAIL - PE-280-3**  
**Bridge and Culvert Structure Identification Markers**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



#### LIST OF MATERIALS:

1. APPROVED BACKFLOW ASSEMBLY SHALL BE LEAD FREE, NO EXCEPTIONS FOR NON-POTABLE SYSTEMS
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER
3. RESILIENT SEATED GATE VALVE (NON-FIRE LINE) NON-RISING STEM
4. 90° ELBOW (FLANGED DIP 3" THROUGH 10")
5. PIPE SPOOL (FLANGED DIP 3" THROUGH 10")
6. MECHANICAL JOINT
7. 3"X3"X1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT)
8. TEST COCK (4 REQUIRED)
9. ADJUSTABLE PIPE SUPPORT
10. 8"X8"X16" CONCRETE BLOCK FILLED WITH MORTAR
11. CONCRETE PAD FROM SUPPORT TO SUPPORT (4" DEEP X 12" WIDE)
12. CONSTRUCT 6" THICK CONCRETE BASE



### REDUCED PRESSURE PRINCIPLE

#### NOTES:

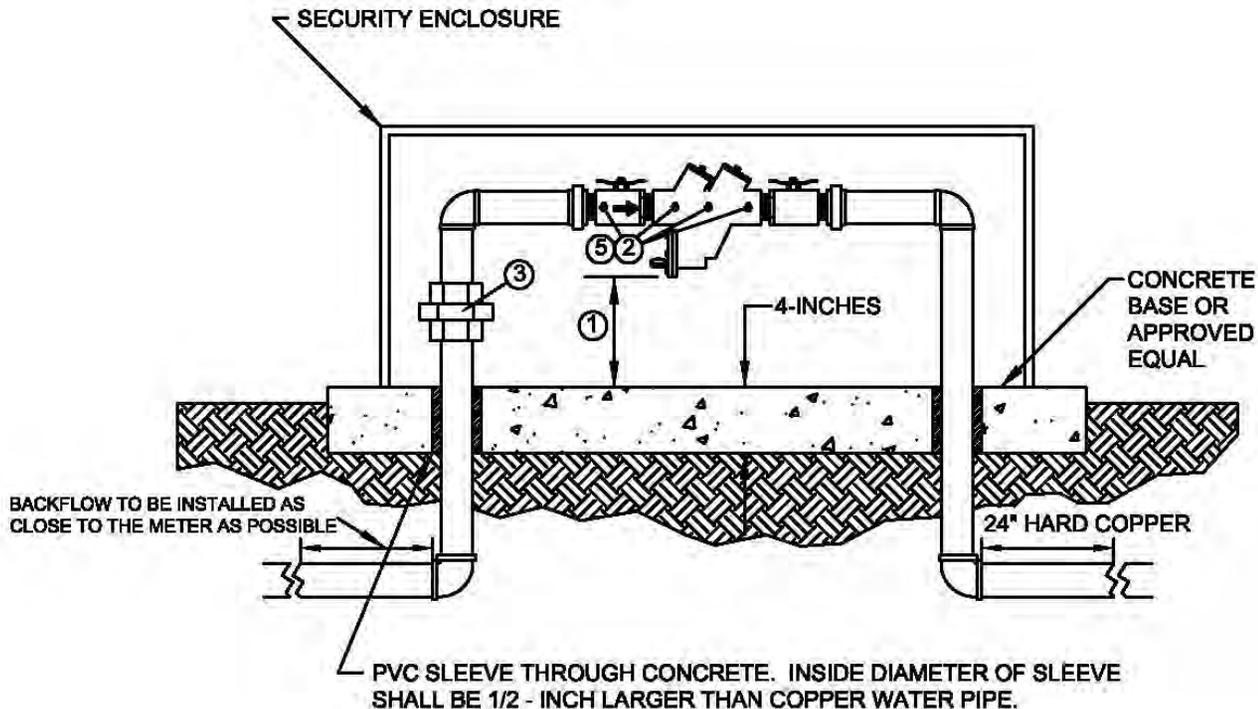
1. CONTACT CITY OF PEORIA ENVIRONMENTAL/ INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES
2. THE 4 TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY
3. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IF NEAR TRAFFIC AREA PER MAG STANDARD DETAIL 140
4. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY
5. ASSEMBLY SHALL BE PAINTED RUST-OLEUM HIGH PERFORMANCE ENAMEL PAINT COLOR 7524838. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY
6. INSPECTIONS REQUIRED FOR PIERS, THRUST BLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY BY CITY OF PEORIA CROSS CONNECTION STAFF
7. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12" MINIMUM AND 30" MAXIMUM TO ASSEMBLY CENTERLINE ABOVE CONCRETE PAD
8. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12"
9. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA BUILDING SAFETY DIVISION AND TESTED BY A CITY OF PEORIA RECOGNIZED TESTER
10. PLUMBING PERMIT REQUIRED FOR INSTALLATION
11. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED
12. ALL BACKFLOW PREVENTION DEVICES ARE CONSIDERED PRIVATE AND NOT MAINTAINED BY THE CITY



Rev. 01/2019

### CITY OF PEORIA STANDARD DETAIL - PE-351 Cross Connection Control 3" and Larger Lead Free Reduced Pressure Backflow Preventer

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12" ABOVE THE SURFACE IMMEDIATELY BELOW THE RELIEF VALVE OPENING BUT NO MORE THAN 30" ABOVE CONCRETE PAD
2. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12"
3. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED
4. ASSEMBLIES MUST BE INSPECTED BEFORE BACKFILLING BY THE CITY OF PEORIA ENVIRONMENTAL DEPARTMENT AND TESTED BY A CITY RECOGNIZED TESTER
5. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY
6. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION
7. ASSEMBLIES MUST BE INSTALLED TO MANUFACTURERS SPECIFICATIONS
8. SECURITY ENCLOSURE SHALL BE GUARDSHACK ENCLOSURES-HINGED PC MODEL GS PAINTED TAN OR APPROVED EQUAL
9. ASSEMBLY SHALL BE PAINTED RUST-OLEUM HIGH PERFORMANCE ENAMEL PAINT COLOR 7524838. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY

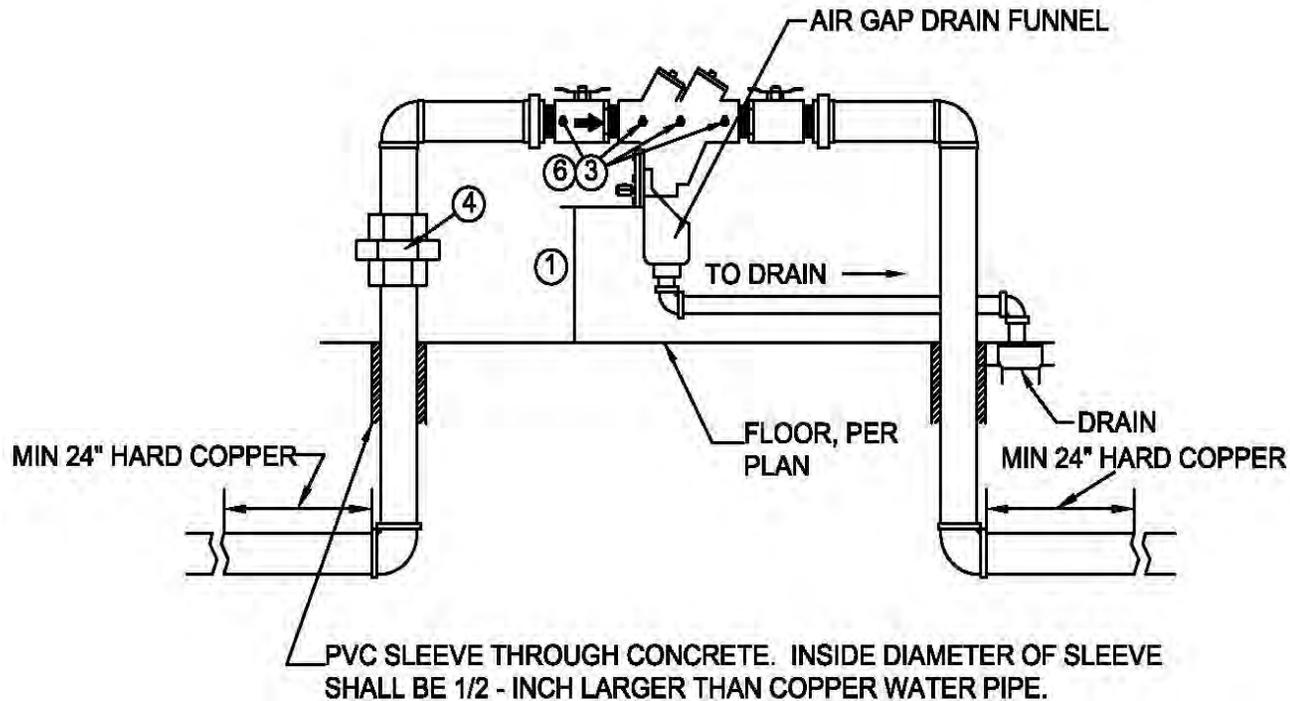


Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-352-1**

**Cross Connection Control 2 1/2" & Smaller Lead Free Reduced Pressure Backflow Preventer—Outside Installation**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**MUST HAVE DRAIN IF INSTALLED INSIDE**

**NOTES:**

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12" ABOVE THE FINISHED FLOOR IMMEDIATELY BELOW THE RELIEF VALVE OPENING
2. ASSEMBLIES INSTALLED ABOVE 5' FROM THE FLOOR MUST BE ACCESSIBLE, NOT POSE A SAFETY HAZARD, AND BE APPROVED BY BUILDING SAFETY
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12"
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL DEPARTMENT AND TESTED BY A CITY RECOGNIZED TESTER
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTORS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY
7. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION
8. CONTACT CITY OF PEORIA ENVIRONMENTAL DEPARTMENT FOR LIST OF APPROVED ASSEMBLIES
9. ASSEMBLIES MUST BE INSTALLED TO MANUFACTURERS SPECIFICATIONS
10. PIPING TO COMPLY TO CURRENT COP STANDARDS
11. STAINLESS STEEL REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE INSTALLED ON ALL CARBONATOR APPLICATIONS AND NO COPPER PIPING SHALL BE INSTALLED DOWNSTREAM OF BACKFLOW



Rev. 01/2019

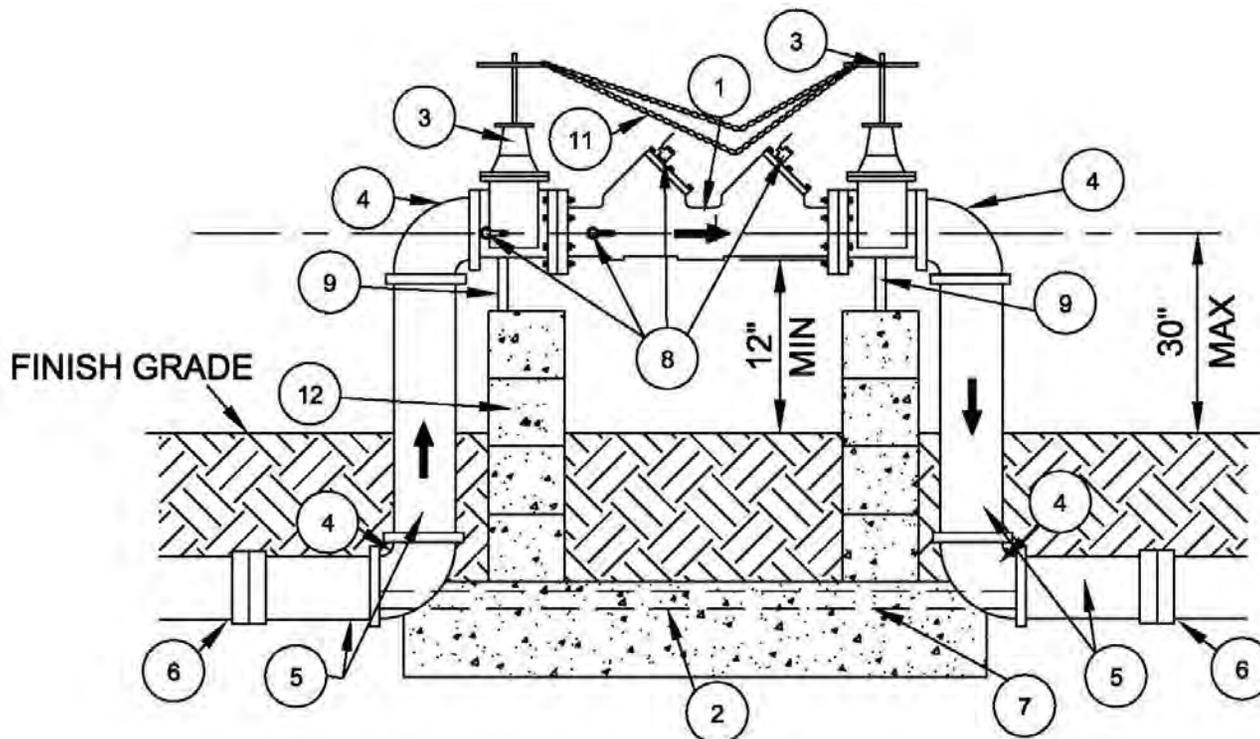
**CITY OF PEORIA STANDARD DETAIL - PE-352-2**

**Cross Connection Control 2 1/2" and Smaller Lead Free Reduced Pressure Backflow Preventer—Inside Installation**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

**LIST OF MATERIALS:**

1. APPROVED BACKFLOW ASSEMBLY
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER
3. RESILIENT SEATED GATE VALVE OS & Y (FIRE LINE)
4. 90° ELBOW (FLANGED DIP 3" THROUGH 10")
5. PIPE SPOOL (FLANGED DIP 3" THROUGH 10")
6. MECHANICAL JOINT
7. 3"X3"X1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT)
8. TEST COCK (4 REQUIRED)
9. ADJUSTABLE PIPE SUPPORT
10. UPDATED—PLEASE REFER TO ITEM 4
11. CHAIN & LOCK (FIRE LINE MAY BE REQUIRED TO BE ELECTRONICALLY MONITORED, CONTACT PEORIA FIRE DEPARTMENT FOR DETAILS ON VALVES)
12. 8"X8"X16" CONCRETE BLOCK FILLED WITH MORTAR
13. CONSTRUCT 6" THICK CONCRETE BASE



**NOTES:**

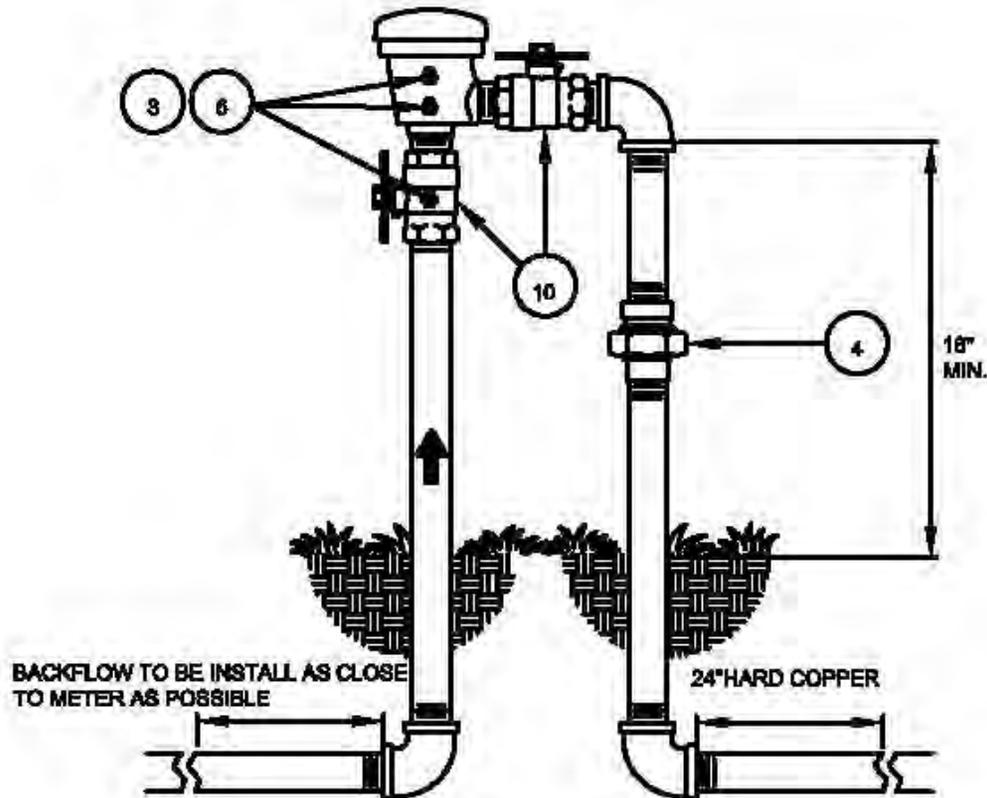
1. CONTACT CITY OF PEORIA ENVIRONMENTAL DEPARTMENT FOR LIST OF APPROVED ASSEMBLIES
2. THE 4 TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY
3. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IN TRAFFIC AREAS PER MAG STANDARD DETAIL 140
4. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY
5. ASSEMBLY SHALL BE PAINTED TAN OR COLOR TO MATCH BACKGROUND. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY
6. INSPECTIONS REQUIRED FOR PIERS, THRUST BLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY
7. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12" MINIMUM AND 30" MAXIMUM TO ASSEMBLY CENTERLINE ABOVE CONCRETE PAD
8. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12"
9. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA ENVIRONMENTAL DEPARTMENT AND TESTED BY A CITY OF PEORIA RECOGNIZED TESTER
10. PLUMBING PERMIT REQUIRED FOR INSTALLATION
11. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED
12. ALL BACKFLOW PREVENTION DEVICES ARE CONSIDERED PRIVATE AND NOT MAINTAINED BY THE CITY



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-353**  
**Cross Connection Control 3" and Larger Lead Free Double Check Valve Assembly**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

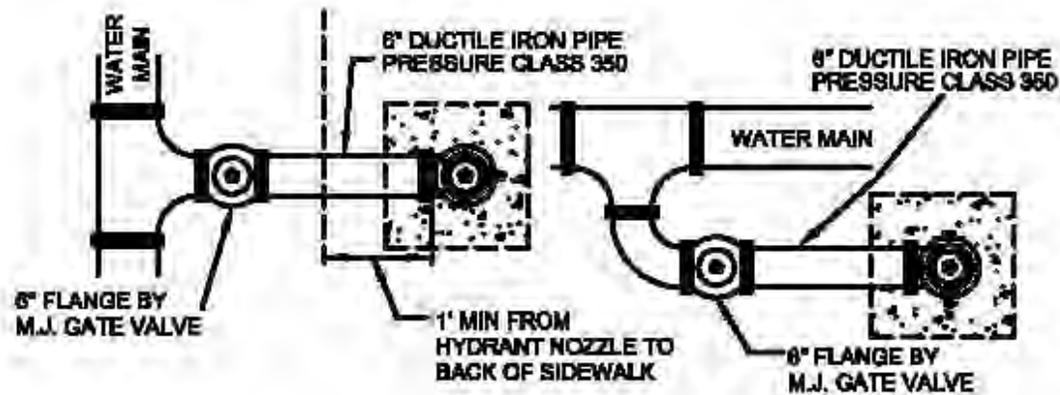
1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12" ABOVE ALL DOWNSTREAM PIPING
2. ASSEMBLIES INSTALLED ABOVE 5' FROM THE FLOOR MUST BE ACCESSIBLE, NOT POSE A SAFETY HAZARD AND BE APPROVED BY BUILDING SAFETY
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12"
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA BUILDING SAFETY DIVISION AND TESTED BY A CITY RECOGNIZED TESTER
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY
7. PRESSURE VACUUM BREAKERS SHALL NOT BE USED FOR COMMERCIAL IRRIGATION SYSTEMS
8. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION
9. ASSEMBLIES MUST BE INSTALLED AS DESIGNED AND CONSTRUCTED BY THE MANUFACTURER
10. BALL VALVES ARE REQUIRED UPSTREAM AND DOWNSTREAM OF THE ASSEMBLY



Rev. 01/2019

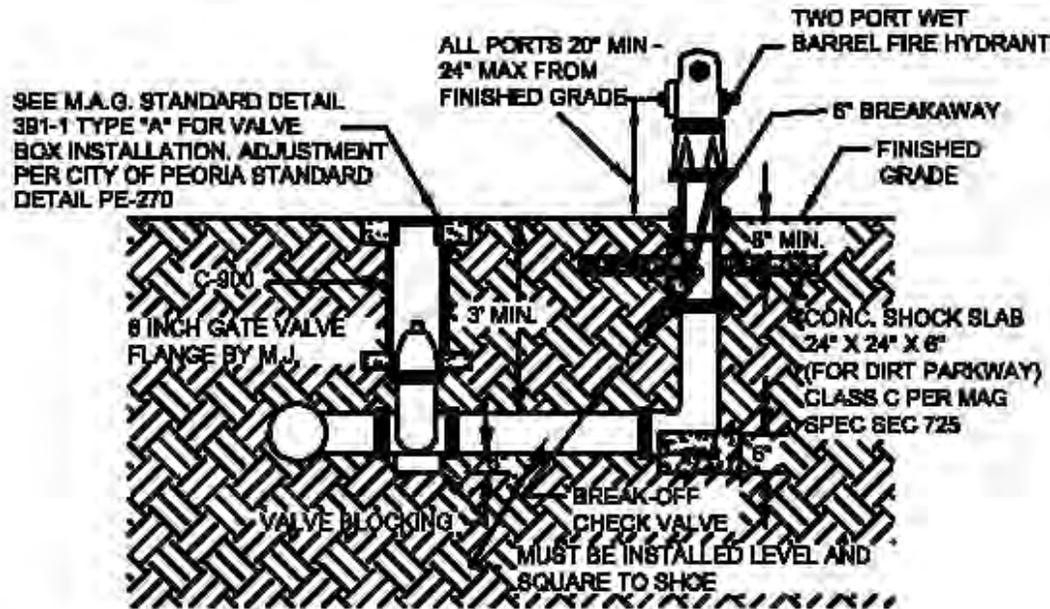
**CITY OF PEORIA STANDARD DETAIL - PE-355**  
**Lead Free Pressure Vacuum Breaker Assembly—Residential**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. ALL JOINTS SHALL BE RESTRAINED INCLUDING MAIN AT TEE ENDS
2. APPROVED HYDRANTS ARE LISTED IN TABLE 8-9 IN THE ENGINEERING STANDARDS MANUAL
3. BREAK-OFF CHECK VALVES ARE LISTED IN TABLE 8-9 IN THE ENGINEERING STANDARDS MANUAL
4. THE 6" GATE VALVE SHALL BE FLANGED BY MECHANICAL JOINT
5. NO VALVES ARE TO BE IN THE CONCRETE
6. THE 4 1/2" PORT ON THE HYDRANT SHALL BE INSTALLED FACING THE STREET AND WITH THE CLEARANCE INDICATED ON PE-361
7. THE HYDRANT SHALL HAVE 1-2 1/2" PORT AND 1-4 1/2" PORT
8. NATIONAL STANDARD THREADS REQUIRED ON ALL CONNECTIONS
9. INSTALL FIRE HYDRANT MARKER PER MAG DETAIL 122
10. CITY OWNED HYDRANT SHALL BE PAINTED CATERPILLAR OLD YELLOW #1 OR SAFETY YELLOW

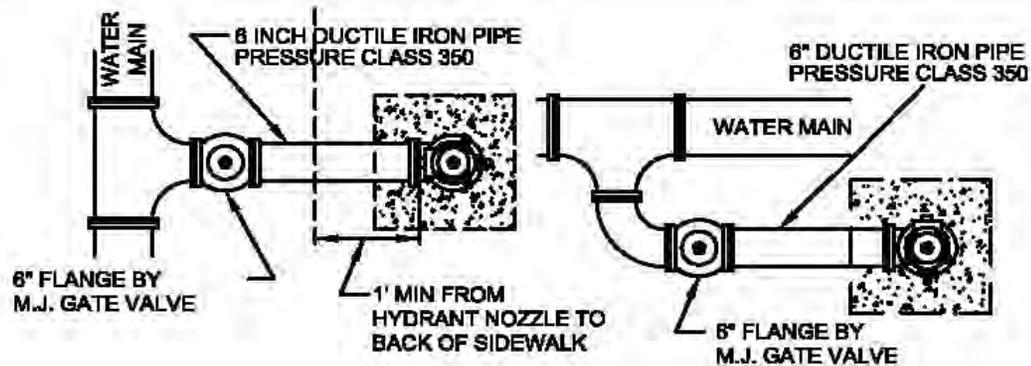


**CITY OF PEORIA STANDARD DETAIL - PE-360-1**  
Residential Fire Hydrant Installation

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL

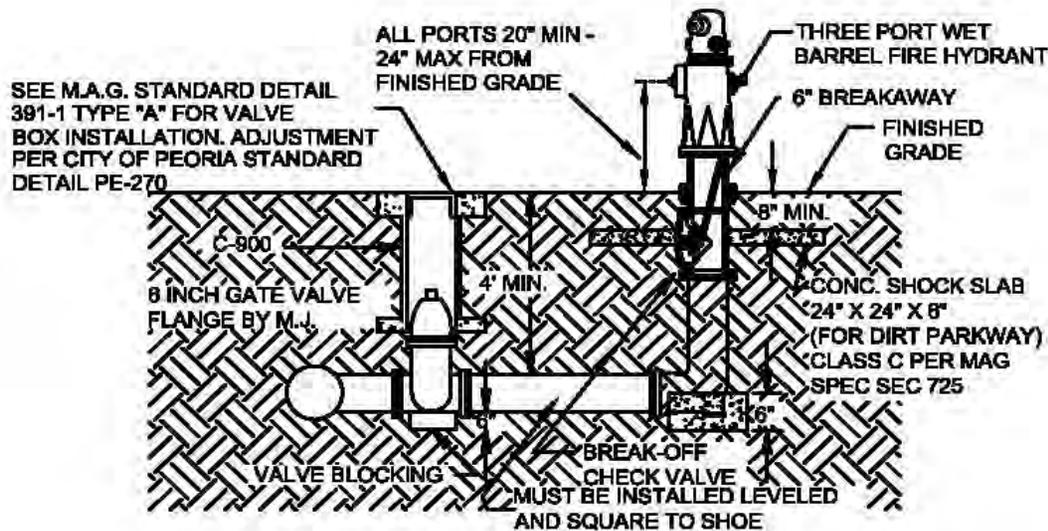


Rev. 01/2019



**NOTES:**

1. ALL JOINTS SHALL BE RESTRAINED INCLUDING MAIN AT TEE ENDS
2. APPROVED HYDRANTS ARE LISTED IN TABLE 8-9 OF THE ENGINEERING STANDARDS MANUAL
3. BREAK-OFF CHECK VALVES ARE LISTED IN TABLE 8-9 OF THE ENGINEERING STANDARDS MANUAL
4. THE 6" GATE VALVE SHALL BE FLANGED BY MECHANICAL JOINT
5. NO VALVES ARE TO BE IN THE CONCRETE
6. THE 4 1/2" PORT ON THE HYDRANT SHALL BE INSTALLED FACING THE STREET WITH CLEARANCE AS OUTLINED ON DETAIL PE-361
7. THE HYDRANT SHALL HAVE 2-2 1/2" PORTS AND 1-4 1/2" PORT
8. NATIONAL STANDARD THREADS REQUIRED ON ALL CONNECTIONS
9. INSTALL FIRE HYDRANT MARKER PER MAG DETAIL 122
10. CITY OWNED HYDRANT SHALL BE PAINTED CATERPILLAR OLD YELLOW #1 OR SAFETY YELLOW



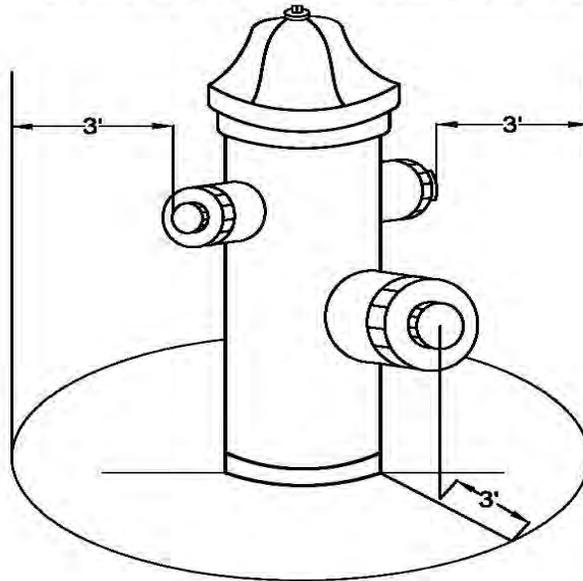
**CITY OF PEORIA STANDARD DETAIL - PE-360-2**  
**Commercial Fire Hydrant Installation**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



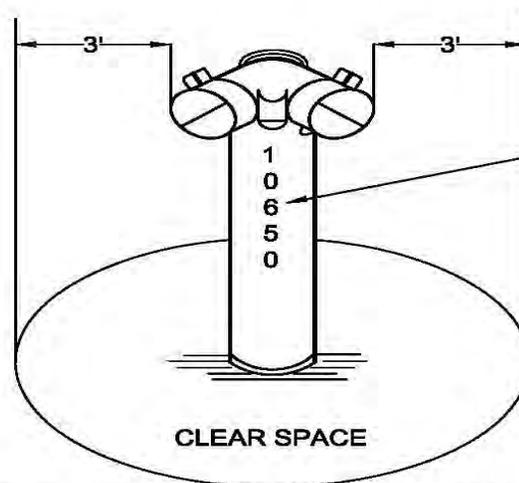
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(DEPICTION OF DRY BARREL HYDRANT)



CITY OWNED HYDRANTS SHALL BE PAINTED YELLOW.

DO NOT PLANT ANY TREES OR SHRUBS THAT WILL ENCROACH ON THE CLEAR SPACE INDICATED, WHEN THE PLANTS OR TREES ARE MATURE.



STANDPIPE TO BE PAINTED RED WITH 2" HIGH WHITE REFLECTIVE NUMBERS

CLEAR SPACE

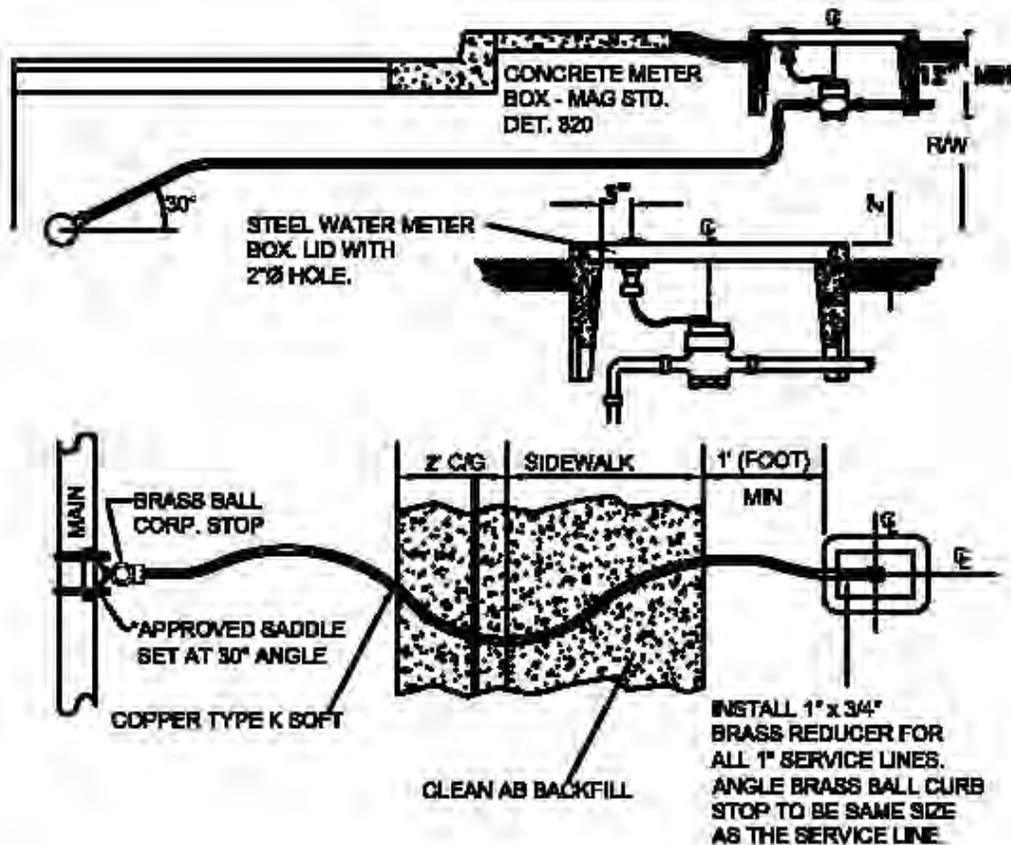
(REMOTE FDC BY FIRE MARSHALL AUTHORIZATION ONLY)

**CITY OF PEORIA STANDARD DETAIL - PE-361**  
**Hydrant/FDC Clearances**



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THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

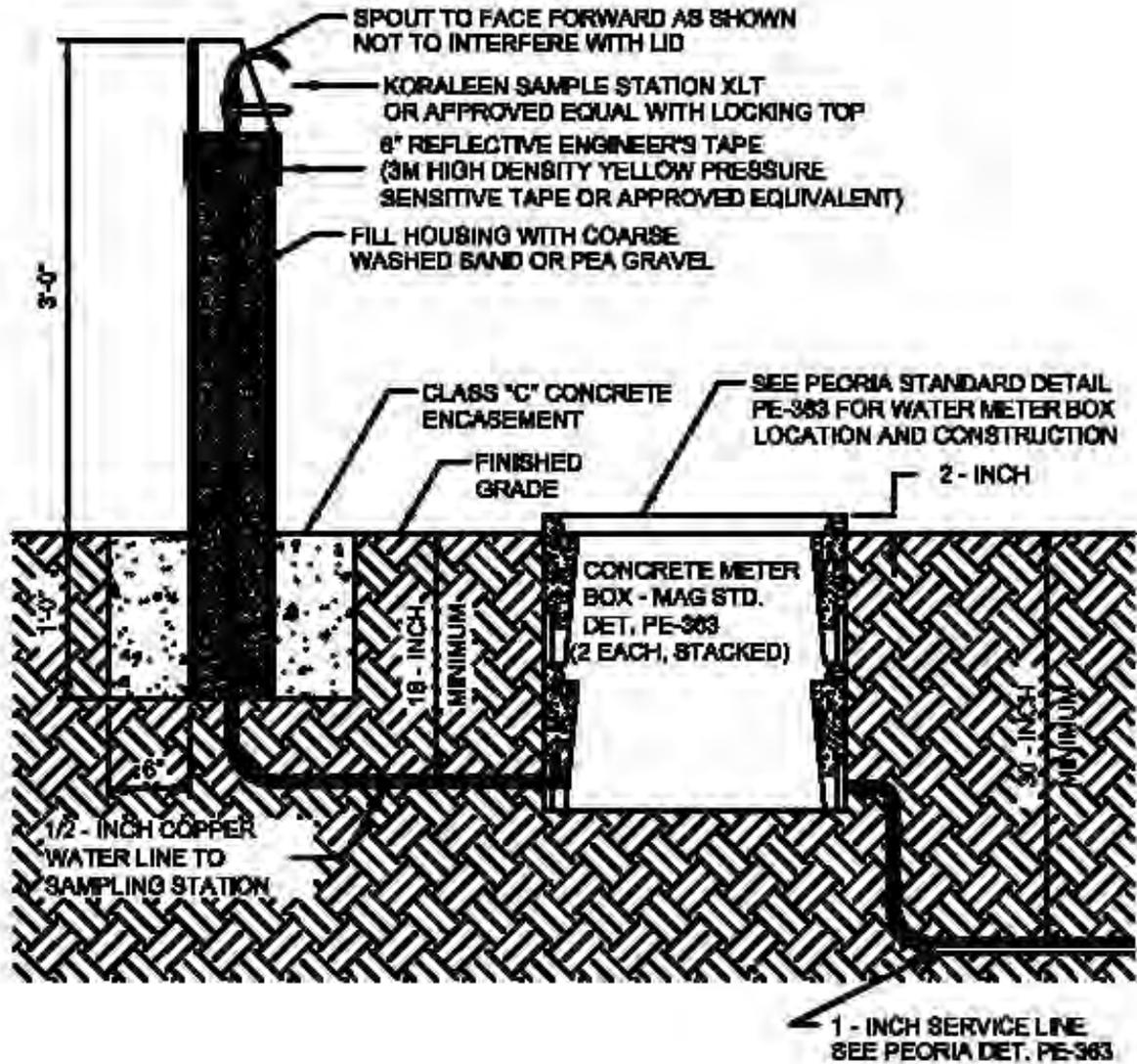
1. 30" MINIMUM COVER IS REQUIRED FOR SERVICE LINES
2. NO COUPLINGS ALLOWED ON SERVICE LINE
3. FOR CUL-DE-SAC LOTS ONLY—THE WATER METER SHALL BE PLACED AT THE BACK OF THE SIDEWALK
4. ALL WATER METER BOXES TO BE LEVEL WITH THE BACK OF THE SIDEWALK
5. ALLOWABLE SERVICE LINE SIZES: 1"; 1 1/2" AND 2"
6. ALL MATERIAL SHALL CONFORM TO THE LATEST MAS SPECIFICATIONS
7. ACCEPTABLE SADDLES INCLUDE:
  - ⇒ MUELLER—BR2B
  - ⇒ FORD—202B BRASS
  - ⇒ JONES—J979
  - ⇒ AY MCDONALD—3825
8. BEDDING: SAND OR CLEAN NATIVE 3/8" MINUS



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**CITY OF PEORIA STANDARD DETAIL - PE-363**  
**Water Meter Box Location and Construction—Services Less Than 2"**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

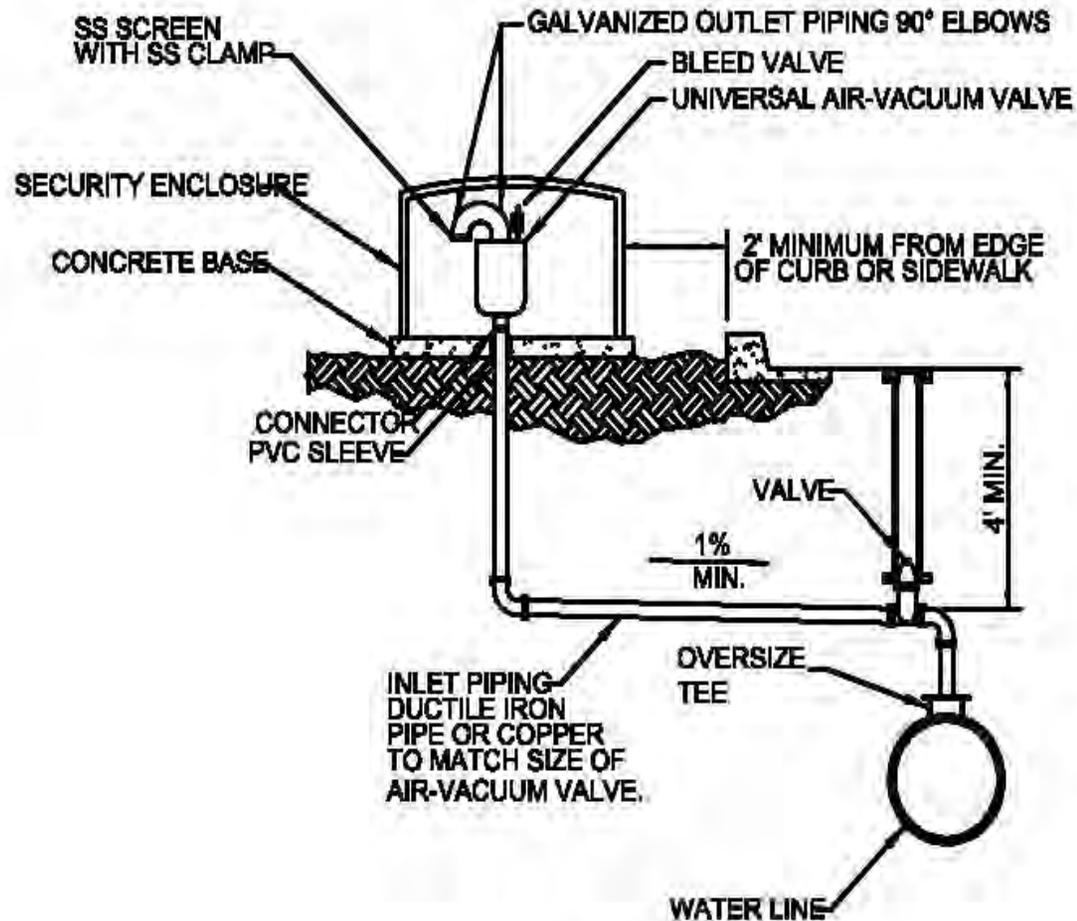
1. THE LOCATION OF THE SAMPLING STATION SHALL BE A MINIMUM OF 5' BEHIND BACK OF CURB



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**CITY OF PEORIA STANDARD DETAIL - PE-371  
Water Quality Sampling Station**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

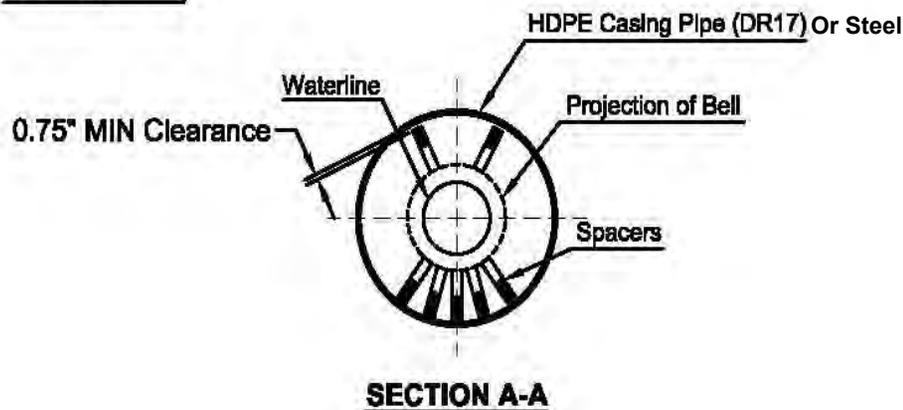
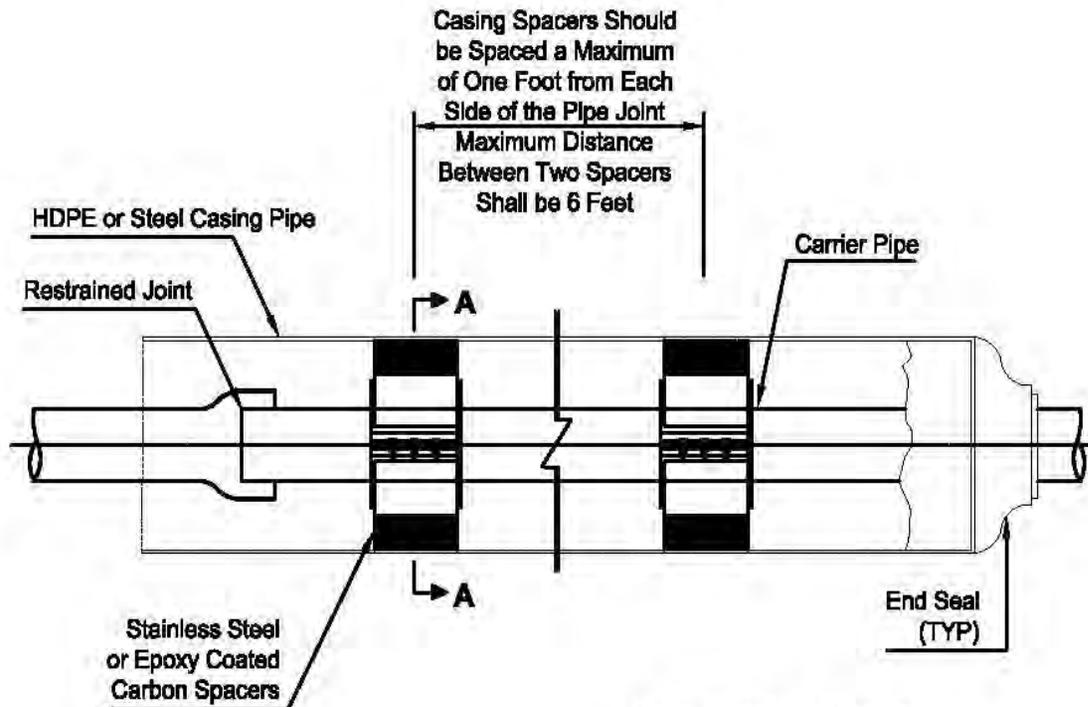
1. SECURITY ENCLOSURE SHALL BE GUARD SHACK ENCLOSURES—GS HINGED POWDER COAT TAN OR APPROVED EQUAL WITH PADLOCK HASP
2. LINE FROM MAIN TO AIR RELEASE VALVE TO BE INSTALLED WITH POSITIVE SLOPE TO PREVENT BLOCKAGE
3. CONCRETE BASE 4" THICK WITH NUMBER 4 REBAR AT 12" EACH WAY. BASE DIMENSIONS SHALL BE 12" GREATER THAN INSIDE DIMENSIONS OF SECURITY ENCLOSURE
4. FIELD PAINT ALL FITTINGS AND SECURITY ENCLOSURE "DESERT TAN"
5. SIZE OF UNIVERSAL AIR-VACUUM VALVE AND APPURTENANCES SHALL BE SPECIFIED BY THE DESIGN ENGINEER



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**CITY OF PEORIA STANDARD DETAIL - PE-395**  
**Universal Air-Vacuum Valve**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

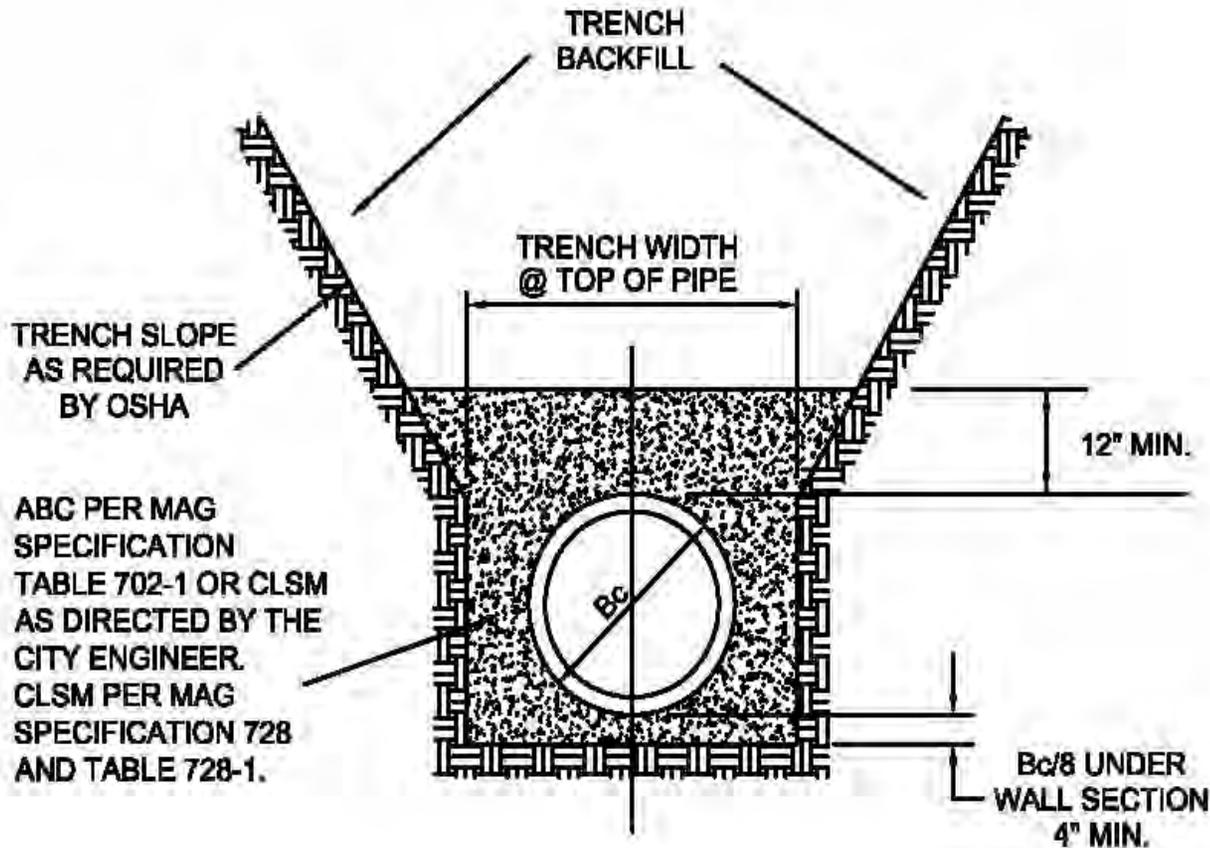
1. CASING SPACERS SHALL BE CASCADE WATERWORKS MFG, ADVANCED PRODUCTS AND SYSTEMS OR EQUAL
2. END SEALS SHALL BE PULL ON RUBBER WITH STAINLESS STEEL BANDS
3. CASING SHALL BE EITHER STEEL OR HIGH-DENSITY POLYETHYLENE PIPE (HDPE) DR 17, PE 3608-3408 DIPS. ALL HDPE CASING PIPE SHALL CONFORM TO ASTM D 3350-05 AND ANSI/AWWA C 906-2006 AND SHALL BE INSTALLED PER ASTM D 2774-04, JOINTING SHALL MEET EITHER ASTM F 2620 OR ASTM F 1290
4. CASING PIPE THICKNESS AND DIAMETER PER MAG 602.2



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**CITY OF PEORIA STANDARD DETAIL - PE-399**  
**Casing with Carrier Pipe**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



ABC PER MAG SPECIFICATION TABLE 702-1 OR CLSM AS DIRECTED BY THE CITY ENGINEER. CLSM PER MAG SPECIFICATION 728 AND TABLE 728-1.

**NOTES:**

1. TRENCH BACKFILL SHALL CONFORM TO MAG SPECIFICATION 601.4.3
2. CMP UNDERGROUND OR CONCEALED RETENTION/DETENTION FACILITIES SHALL CONFORM TO CITY OF PEORIA STANDARD DETAIL PE-402

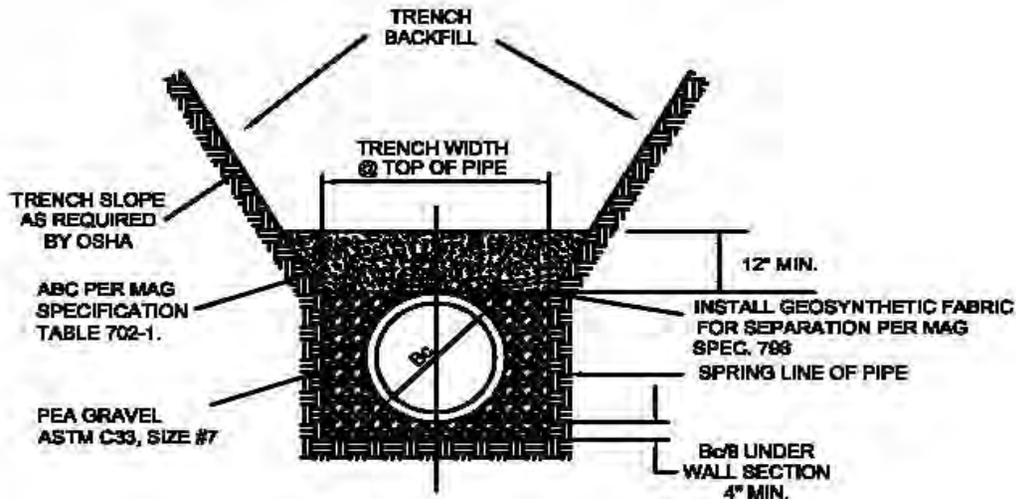
BC = OUTSIDE DIAMETER OF WALL SECTION



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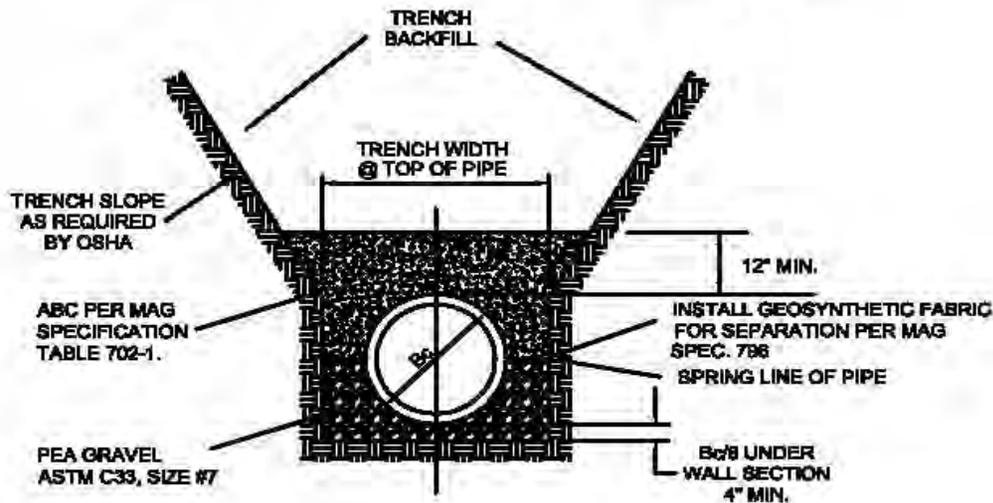
**CITY OF PEORIA STANDARD DETAIL - PE-401**  
Bedding and Backfill

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

1. TRENCH BACKFILL SHALL CONFORM TO MAG SPECIFICATION 601.4.3



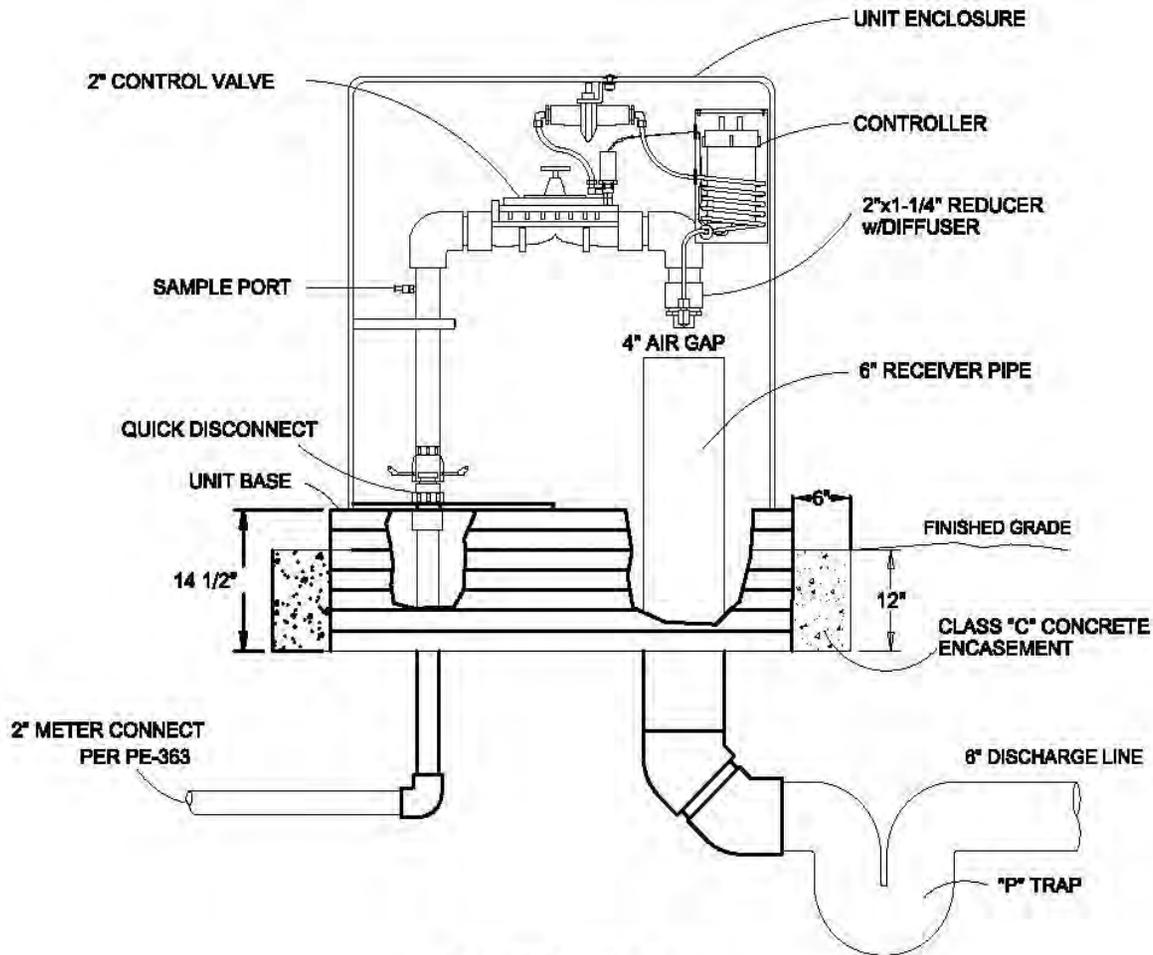
BC = OUTSIDE DIAMETER OF CMP



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**CITY OF PEORIA STANDARD DETAIL - PE-402**  
**Bedding and Backfill for CMP**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



- NOTES:**
1. AUTOMATIC FLUSHING UNIT SHALL BE A HYDROGUARD HG-2 OR EQUIVALENT
  2. UNIT ENCLOSURE SHALL BE APPROVED BY THE ENGINEERING DEPARTMENT
  3. RECEIVER AND DISCHARGE PIPE SHALL BE SDR-35 PVC
  4. FILL INSIDE OF BASE WITH A 2" LAYER OF PEA GRAVEL

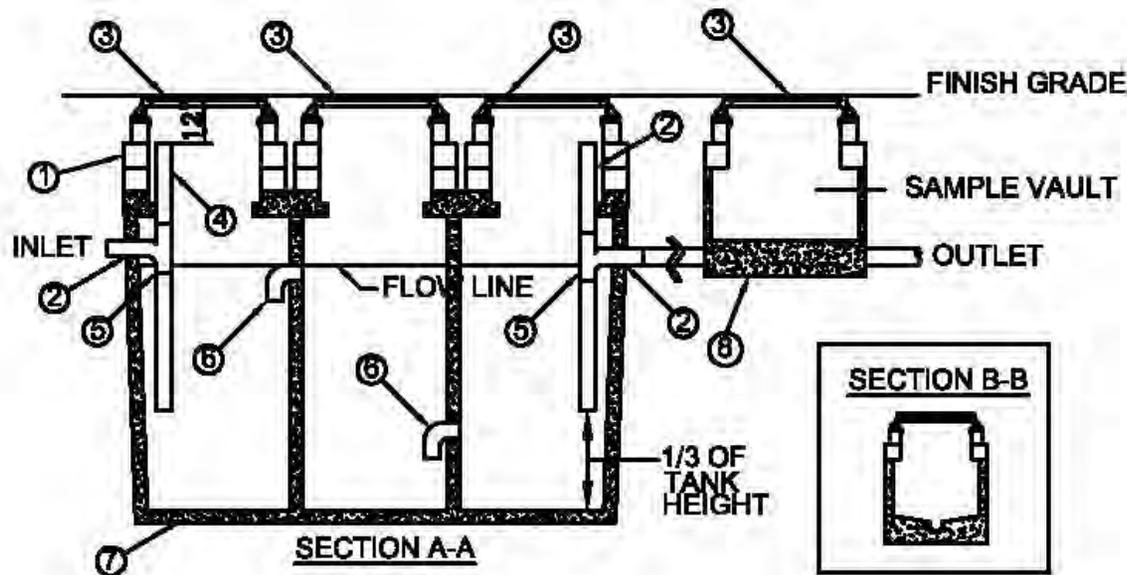
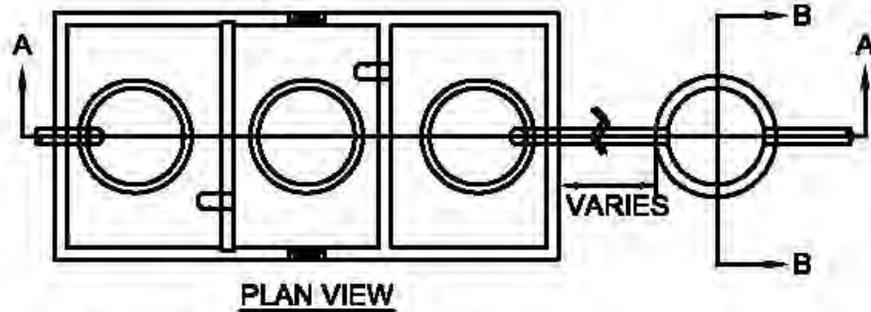
**TYPICAL INSTALL**  
N.T.S.

**CITY OF PEORIA STANDARD DETAIL - PE-410**  
**Automatic Flusher**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



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**NOTES:**

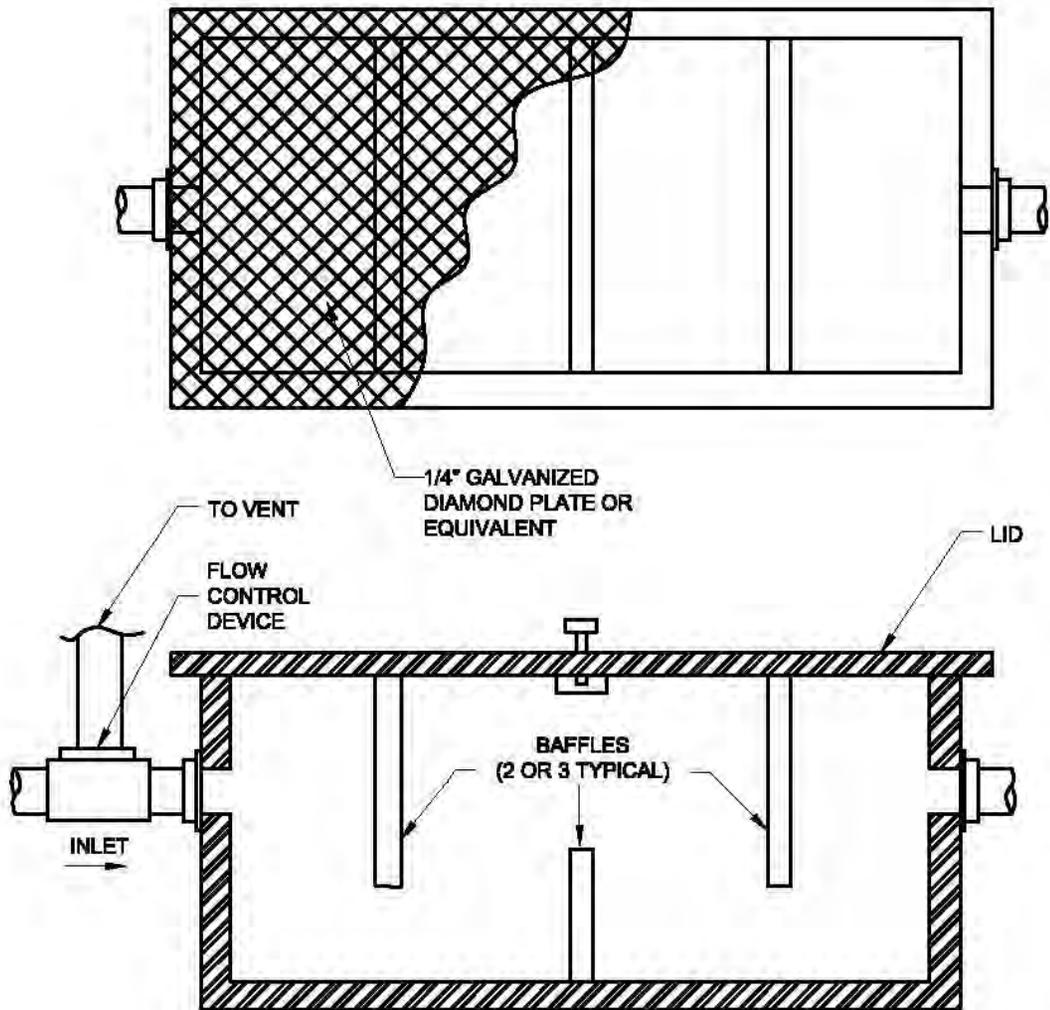
1. ALL GRADIENT RISERS, INCLUDING MANHOLE FRAME, WILL HAVE TH INTERIOR SEALED WITH NON-SHRINK GROUT
2. EXTERNAL INLET AND OUTLET PIPE ACCESS HOLES SHALL BE SEALED WITH NON-SHRINK GROUT
3. MANHOLE, FRAME, AND COVER FOR INTERCEPTOR AND SAMPLE VAULT MUST HAVE CONCRETE COLLAR PER MAG DETAIL 422 (MAG DETAIL 424 IN TRAFFIC AREAS)
4. INTERNAL SANITARY "T" S SHALL BE EXTENDED TO 12" BELOW THE MANHOLE LID OR ACCESS LID
5. SANITARY TEE (TYPICAL) - BOTH INLET AND OUTLET DOWN DRAFT TUBES ARE TO BE 1/3 OF THE TOTAL TANK HEIGHT FROM THE BOTTOM OF THE TANK
6. 4" DIAMETER MINIMUM PVC ELBOW
7. INTERCEPTOR MUST BE SMITH PRE-CAST OR EQUIVALENT (CAPACITY VARIES)
8. SAMPLE VAULT MUST BE SMITH PRE-CAST OR EQUIVALENT
9. INTERCEPTOR AND VAULT MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USER DIVISION
10. A PLUMBING PERMIT IS REQUIRED FOR REPLACEMENT



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**CITY OF PEORIA STANDARD DETAIL - PE-450**  
**Typical Grease Waste Interceptor Requirements**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

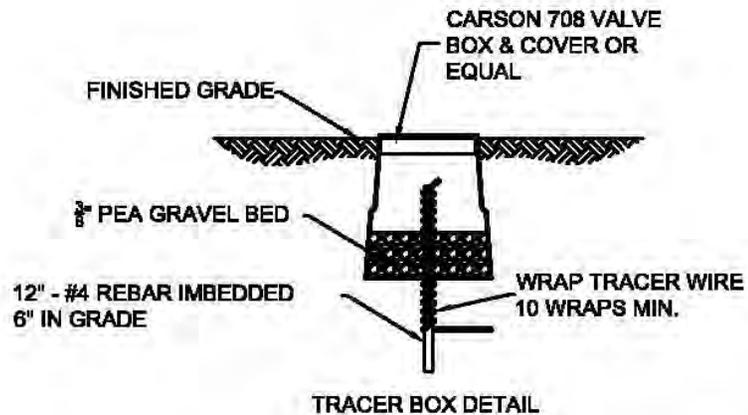
1. MUST BE METAL CONSTRUCTED—ALL OTHER MATERIALS MUST HAVE WASTEWATER ENVIRONMENTAL APPROVAL
2. A FLOW CONTROL DEVICE MUST BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS ON THE INLET PIPE PRIOR TO ENTERING THE GREASE TRAP
3. TRAPS MAY BE INSTALLED ABOVE GROUND OR BELOW FLOOR GRADE
4. FILL WITH CLEAN WATER PRIOR TO START UP
5. GREASE TRAP MUST BE INSPECTED PRIOR TO BACKFILL BY WASTEWATER ENVIRONMENTAL DEPARTMENT
6. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION
7. GREASE TRAP SHALL BE NO SMALLER THAN 50 GALLON PER MINUTE FLOW WITH 100 POUND GREASE CAPACITY (50/100)
8. USE AND SIZE TO BE APPROVED BY WASTEWATER ENVIRONMENTAL DEPARTMENT



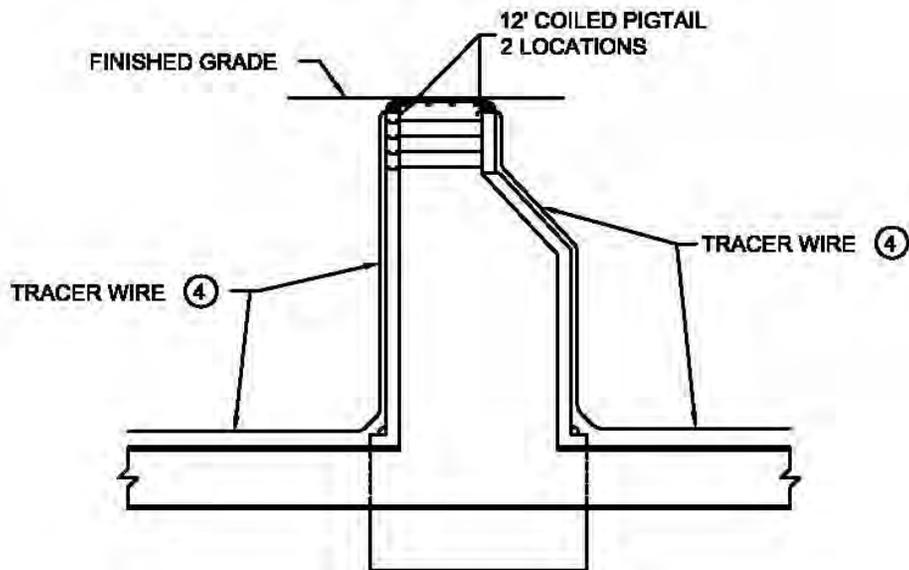
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**CITY OF PEORIA STANDARD DETAIL - PE-451**  
**Typical Grease Trap Requirements**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



TRACER BOX DETAIL



TRACER FOR MANHOLE

**NOTES:**

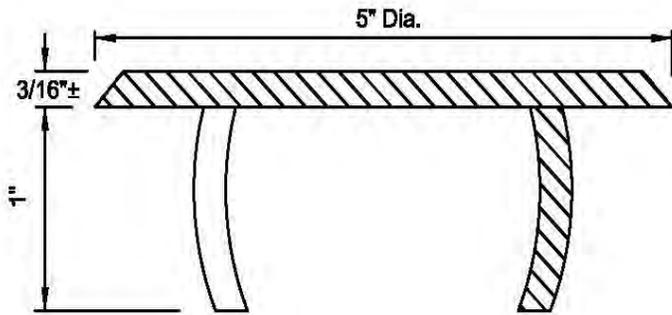
1. LOCATE TRACER BOX IN GRADE CENTERED OVER THE PIPE, IMMEDIATELY BEHIND HEADWALL, MANHOLE IN GRADE OR AREA INLET
2. LOCATE TRACER BOX IN GRADE IMMEDIATELY ADJACENT TO CATCH BASIN OR CURB INLET
3. RUN TRACER WIRE WITHIN 3" OF MANHOLE TOWER AND WRAP 12" MINIMUM OVER THE FINAL ADJUSTMENT RING
4. TRACER WIRE MATERIALS AND INSTALLATION SHALL BE PER PES SECTION 8.9.13



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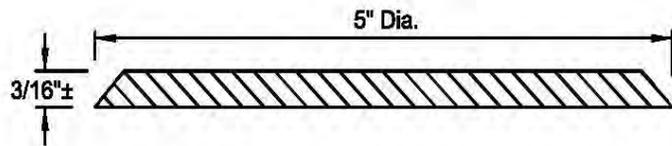
**CITY OF PEORIA STANDARD DETAIL - PE-551**  
Tracer Wire Termination

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**TYPE "A"**

TO BE INSTALLED IN WET CONCRETE  
DURING CONSTRUCTION



**TYPE "B"**

TO BE INSTALLED WITH ADHESIVE  
ON EXISTING STRUCTURES



**NOTES:**

1. MATERIAL—CAST ALUMINUM
2. THE TOTAL WIDTH OF INDIVIDUAL LETTERS AND WORDS ARE EQUALLY SPACED AND BALANCED
3. LETTERS TO BE 1/2" IN HEIGHT. TYPE OF LETTERS TO BE SUBMITTED FOR APPROVAL

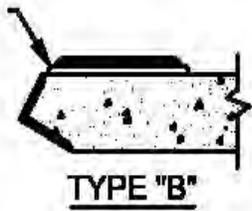


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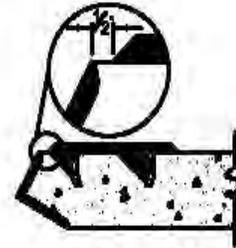
**CITY OF PEORIA STANDARD DETAIL - PE-559-1**  
**Storm Drain Inlet Marker**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

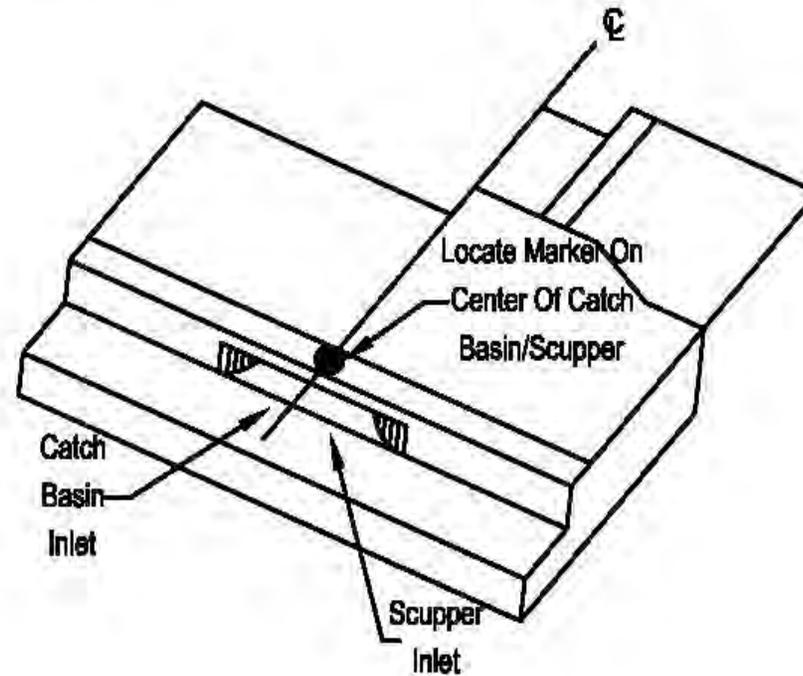
Dynamix #6125-1  
Urethane Universal  
Adhesive



TO BE INSTALLED WITH ADHESIVE  
ON EXISTING STRUCTURES



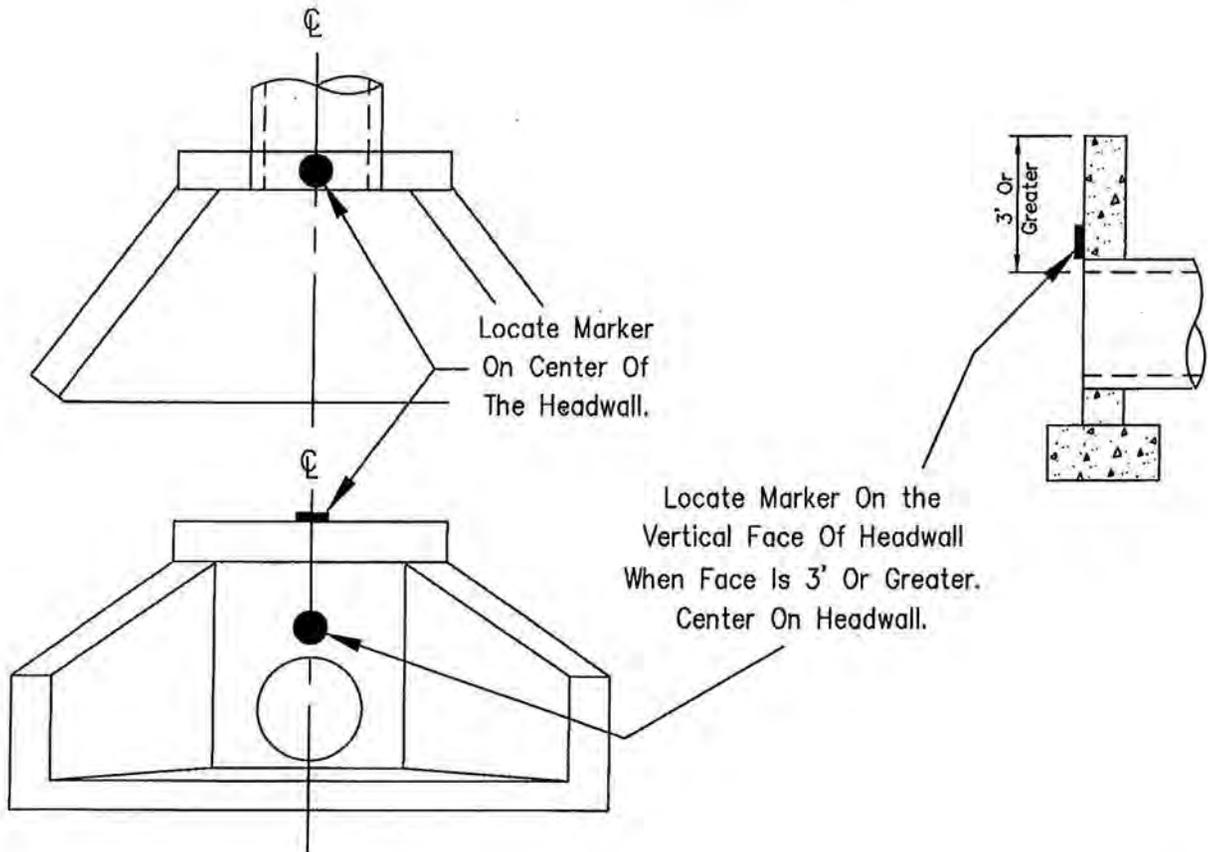
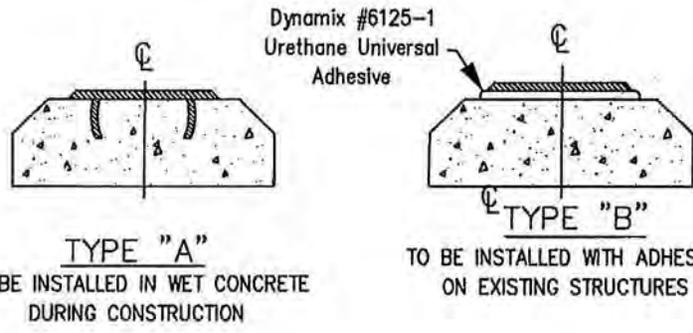
TO BE INSTALLED IN WET CONCRETE  
DURING CONSTRUCTION



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**CITY OF PEORIA STANDARD DETAIL - PE-559-2**  
**Storm Drain Inlet Marker on Catch Basin/Scupper**

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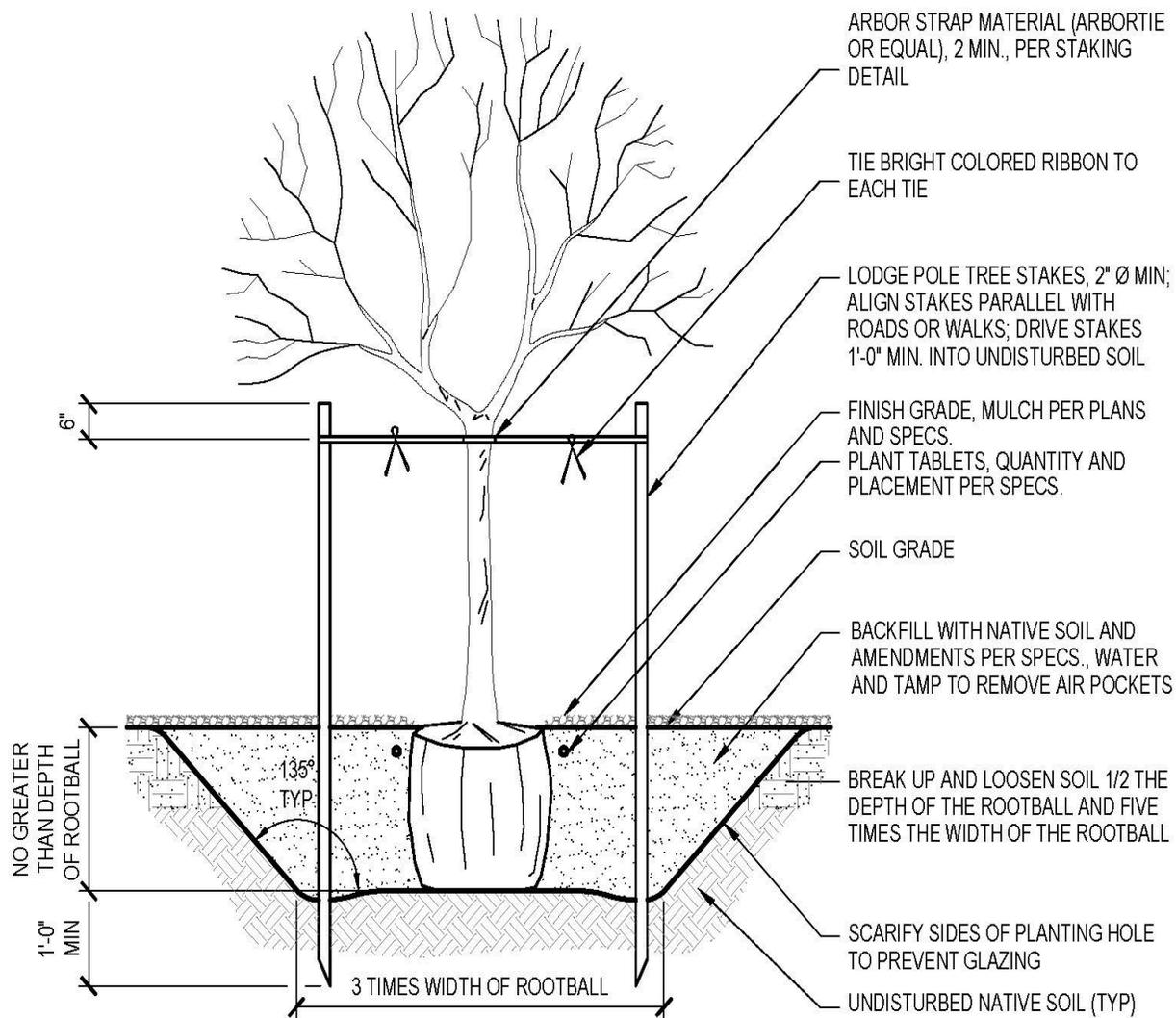


**CITY OF PEORIA STANDARD DETAIL - PE-559-3**  
**Storm Drain Inlet Marker on Headwall**



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THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

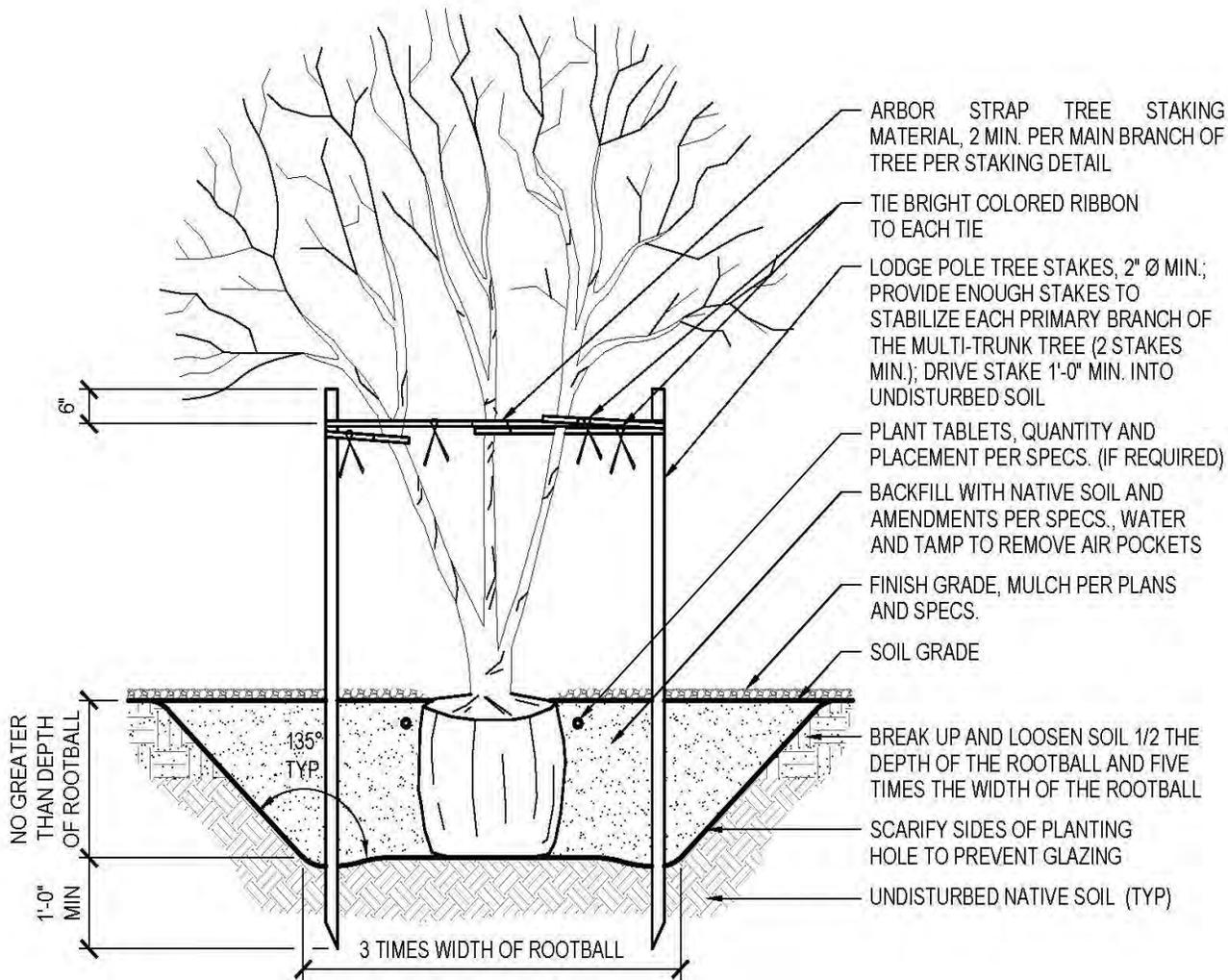
1. WHEN TREE PITS ARE DUG, WATER TEST PITS BY COMPLETELY FILLING WITH WATER AND ALLOWING TO DRAIN FOR 48 HOURS. IF WATER DOES NOT DRAIN, REFER TO OWNER'S REPRESENTATIVE AND PERFORM MEASURES IDENTIFIED IN THE IMPERMEABLE SOILS TREE PLANTING DETAIL
2. POSITION PLANT FOR "BEST SIDE" VIEW AND ORIENT SUN-BURN SUSCEPTIBLE PLANTS PER ORIGINAL ROTATION
3. SCORE THE ROOTBALL. MAKE A VERTICAL CUT 1/4 TO 1/2 INCH DEEP AT FOUR QUADRANTS AROUND SIDES AND TWICE ACROSS
4. TOP OF ROOTBALL SHALL BE FLUSH WITH OR UP TO 1" ABOVE SOIL GRADE. DO NOT BURY ROOT CROWN OF PLANT. MAINTAIN MULCH AWAY FROM TRUNK AND ROOT CROWN
5. DO NOT STAKE SALVAGED TREES OR ANY TREE WITH A LARGER THAN 2" DIAMETER TRUNK
6. TREE TIES SHALL BE ARBOR STRAP TREE STAKING AND GUYING MATERIAL (ARBORTIE OR EQUAL)
7. TREE STAKES SHALL BE 2" DIAMETER LODGE POLES, LENGTH AS REQUIRED (10' MINIMUM), DRIVEN OUTSIDE OF ROOTBALL INTO SUBGRADE (12" MINIMUM)
8. ARRANGE STAKES AROUND TREE CANOPY TO PREVENT ABRASION WOUNDS TO BRANCHES
9. INSTALL TREE GUARD (ARBOR GUARD OR EQUAL) ON TREES LOCATED IN TURF



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**CITY OF PEORIA STANDARD DETAIL - PE-701**  
**Single Trunk Tree Planting**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

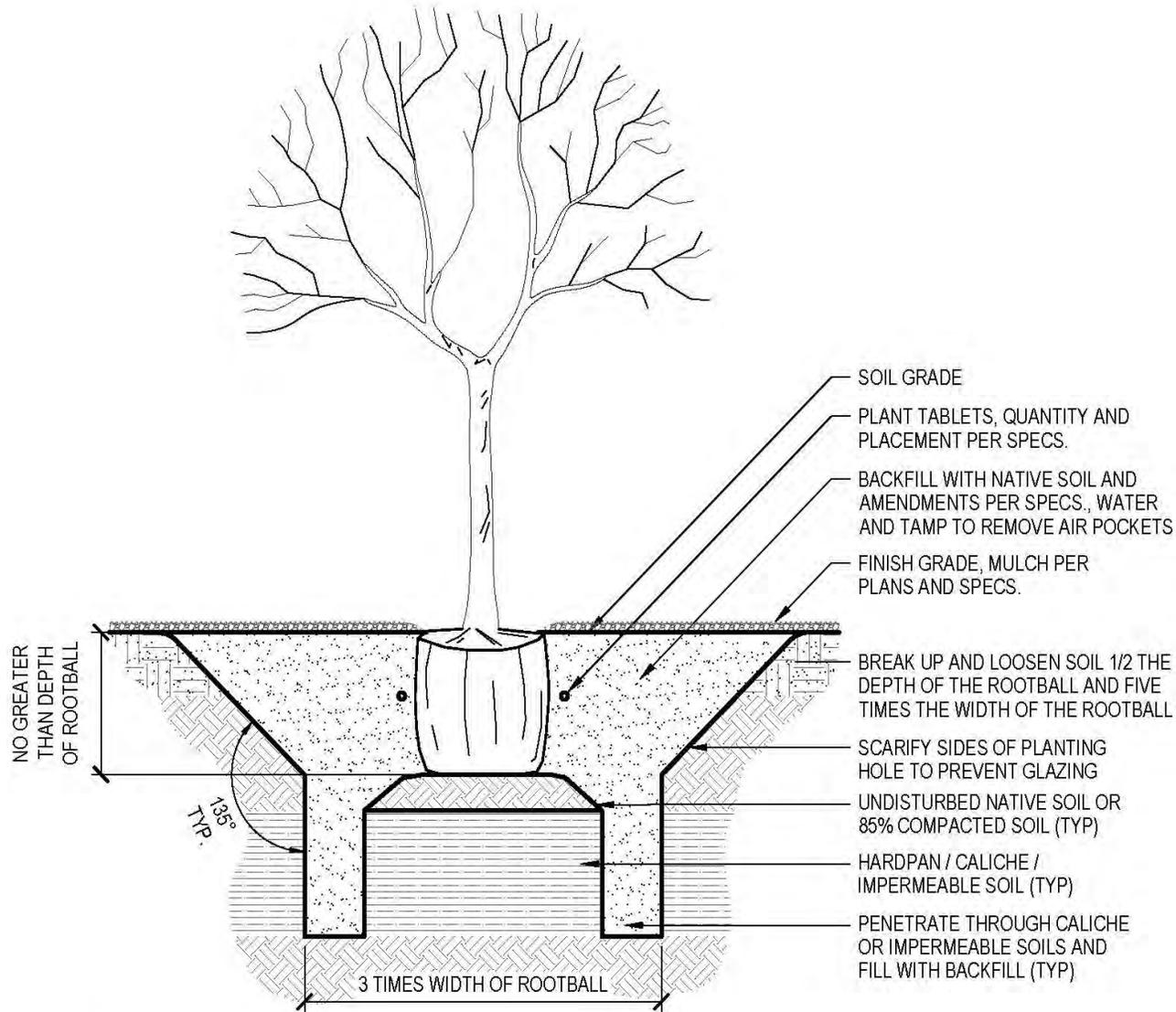
1. WHEN TREE PITS ARE DUG, WATER TEST PITS BY COMPLETELY FILLING WITH WATER AND ALLOWING TO DRAIN FOR 48 HOURS. IF WATER DOES NOT DRAIN, REFER TO OWNER'S REPRESENTATIVE AND PERFORM MEASURES IDENTIFIED IN THE IMPERMEABLE SOILS TREE PLANTING DETAIL
2. POSITION PLANT FOR "BEST SIDE" VIEW AND ORIENT SUN-BURN SUSCEPTIBLE PLANTS PER ORIGINAL ROTATION
3. SCORE THE ROOTBALL. MAKE A VERTICAL CUT 1/4 TO 1/2 INCH DEEP AT 4 QUADRANTS AROUND SIDES AND TWICE ACROSS THE BOTTOM
4. TOP OF ROOTBALL SHALL BE FLUSH WITH OR UP TO 1" ABOVE SOIL GRADE. DO NOT BURY ROOT CROWN OF PLANT. MAINTAIN MULCH AWAY FROM TRUNK AND ROOT CROWN
5. DO NOT STAKE SALVAGED TREES
6. PROVIDE SUPPLEMENTAL STAKING IF REQUIRED TO PROPERLY SUPPORT THE PLANT MATERIAL PER TREE STAKING DETAILS
7. TREE TIES SHALL BE AN ARBOR STRAP MATERIAL (ARBORTIE TREE STAKING AND GUYING MATERIAL OR EQUAL)
8. TREE STAKES SHALL BE 2" DIAMETER LODGE POLES, LENGTH AS REQUIRED (10' MINIMUM), DRIVEN OUTSIDE OF ROOTBALL INTO SUBGRADE (12" MINIMUM), ARRANGE STAKES AND TIE WIRES AROUND TREE CANOPY TO PREVENT ABRASION WOUNDS TO BRANCHES
9. INSTALL TREE GUARD (ARBOR GUARD OR EQUAL) ON TREES LOCATED IN TURF



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**CITY OF PEORIA STANDARD DETAIL - PE-702**  
**Multi-Trunk Tree Planting**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

1. AUGER 12" DIAMETER HOLES THROUGH EXISTING HARDPAN. LOCATE 1 PER CORNER OF PLANTING PIT (MINIMUM 4) OUTSIDE ROOTBALL DEPTH OF HOLE SHALL BE DETERMINED BY FIELD CONDITIONS AND APPROVED BY OWNER'S REPRESENTATIVE BASED ON SOILS EVALUATION TO ENSURE PERCOLATION
2. WATER TEST TREE HOLES BY COMPLETELY FILLING PIT WITH WATER AND ALLOW TO DRAIN FOR 48 HOURS. IF TREE HOLE STILL DOES NOT DRAIN WITHIN 48 HOURS, NOTIFY OWNER'S REPRESENTATIVE
3. IF TREE HOLE DRAINS, ADD GYPSUM AND SULPHUR TO TREE HOLE PER SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS
4. PROCEED WITH TREE PLANTING PER GENERAL TREE PLANTING NOTES ON TREE PLANTING DETAILS
5. PROVIDE TREE STAKES PER TREE PLANTING DETAILS. SET STAKES IN AUGURED HOLES, IF NEEDED

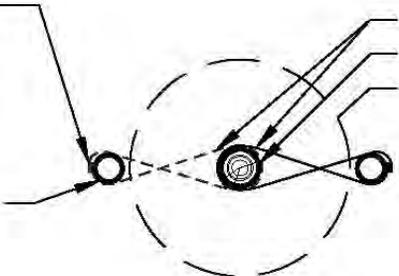


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**CITY OF PEORIA STANDARD DETAIL - PE-703**  
**Impermeable Soils Tree Planting**

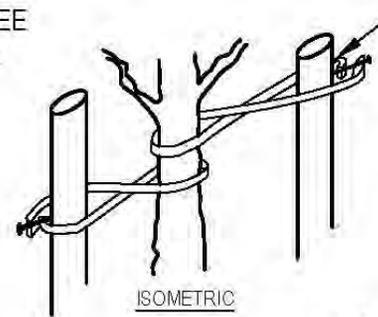
**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**

TREE TIE - LOOP AND TIE OFF OR NAIL PER MANUFACTURER'S DETAILS



ARBOR STRAP TREE TRUNK ROOTBALL

PLAN

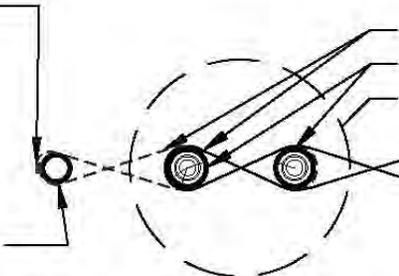


ISOMETRIC

FOLD ENDS OF ARBOR STRAP BACK. SECURE TO STAKE WITH 1" GALVANIZED ROOFING NAIL OR USE A KNOT.

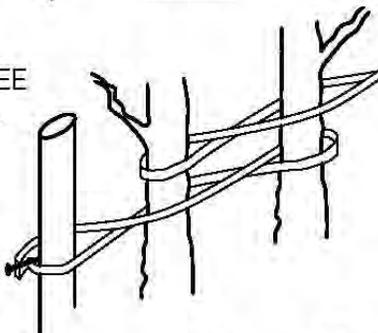
LODGE POLE STAKE, LOCATE OUTSIDE OF PLANT ROOTBALL (TYP)

TREE TIE - LOOP AND TIE OFF OR NAIL PER MANUFACTURER'S DETAILS



ARBOR STRAP TREE TRUNK ROOTBALL

PLAN

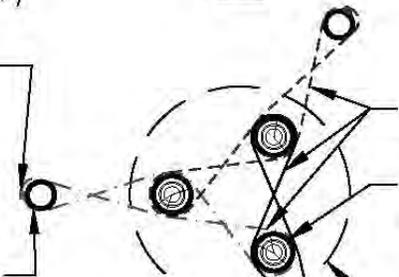


ISOMETRIC

FOLD ENDS OF ARBOR STRAP BACK. SECURE TO STAKE WITH 1" GALVANIZED ROOFING NAIL OR USE A KNOT.

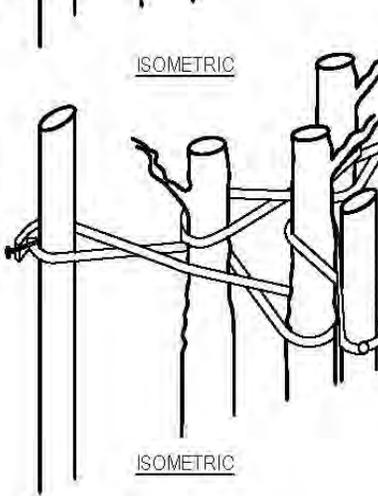
LODGE POLE STAKE, LOCATE OUTSIDE OF PLANT ROOTBALL (TYP)

TREE TIE - LOOP AND TIE OFF OR NAIL PER MANUFACTURER'S DETAILS



ARBOR STRAP TREE TRUNK (TYP) ROOTBALL

PLAN



ISOMETRIC

FOLD ENDS OF ARBOR STRAP BACK. SECURE TO STAKE WITH 1" GALVANIZED ROOFING NAIL OR USE A KNOT.

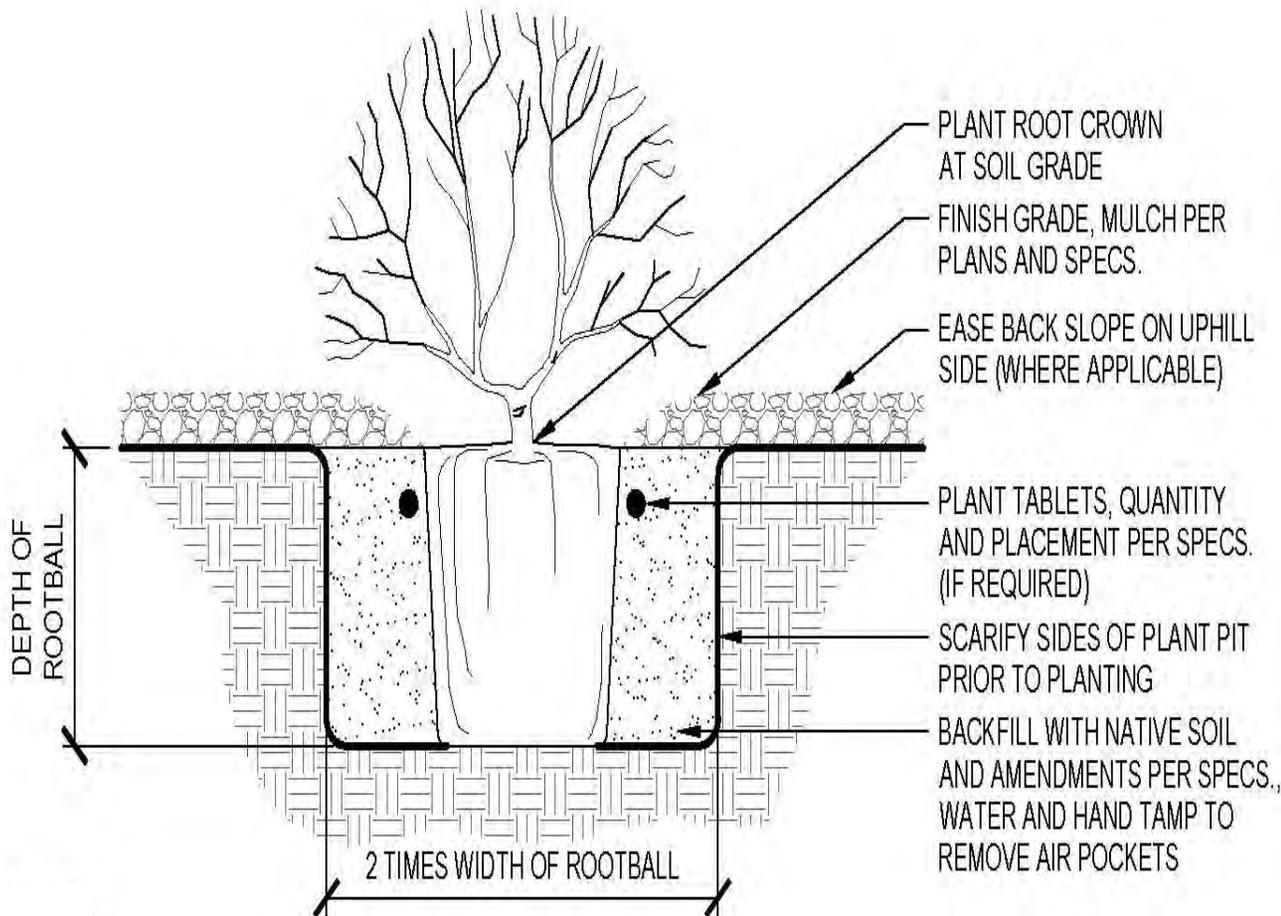
LODGE POLE STAKE, LOCATE OUTSIDE OF PLANT ROOTBALL (TYP)



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### CITY OF PEORIA STANDARD DETAIL - PE-704 Tree Staking

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

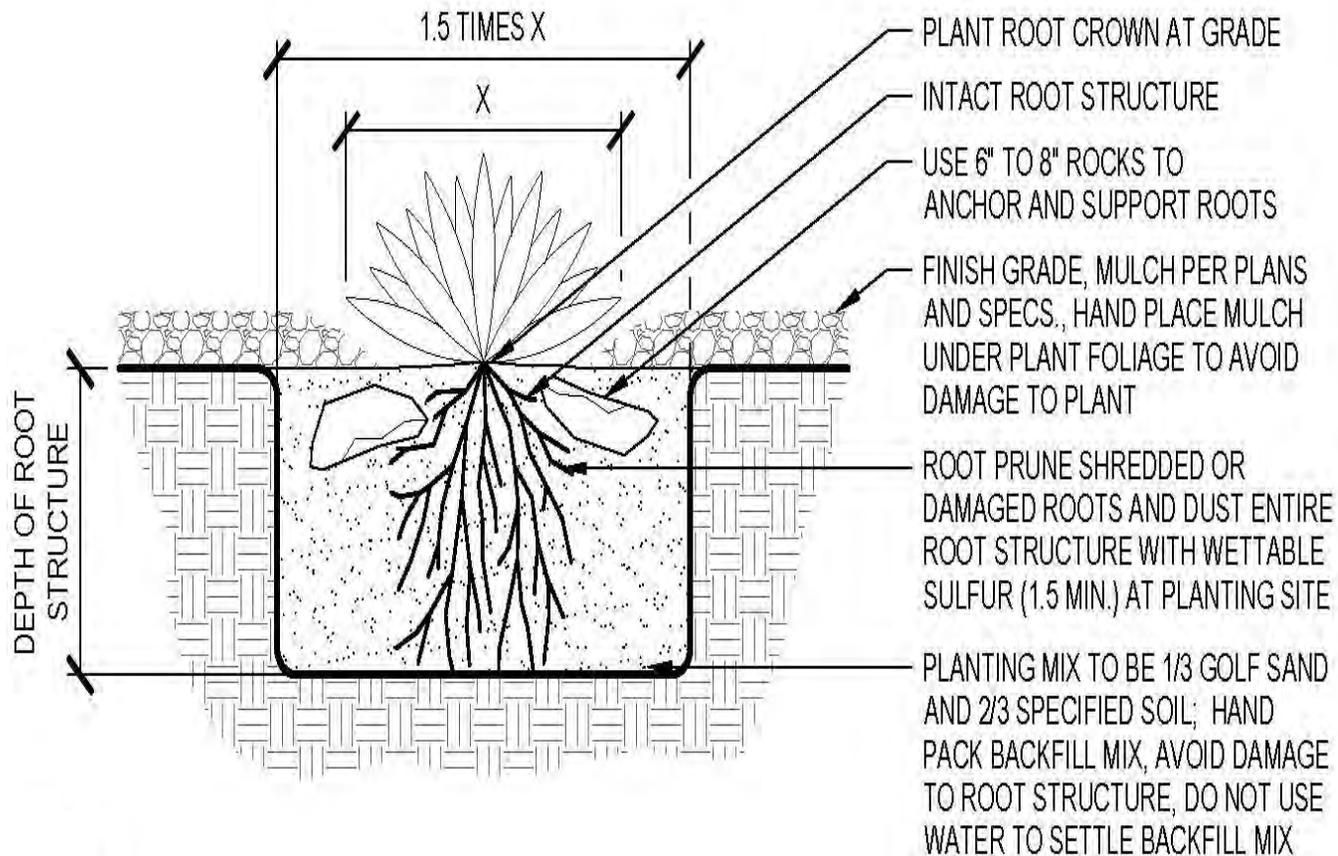
1. TOP OF ROOT CROWN SHALL BE FLUSH WITH FINISH GRADE
2. ROOTBALL SHALL SIT ON EXISTING UNDISTURBED SOIL. DO NOT OVER EXCAVATE PITS
3. POSITION PLANT FOR "BEST SIDE" VIEW AND ORIENT SUNBURN SUSCEPTIBLE PLANTS PER ORIGINAL ORIENTATION
4. SCORE THE ROOTBALL, MAKE VERTICAL CUTS 1/4" TO 1/2" DEEP AT 4 QUADRANTS AROUND SIDES AND TWICE ACROSS THE BOTTOM



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-705**  
**Shrub and Groundcover Planting**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

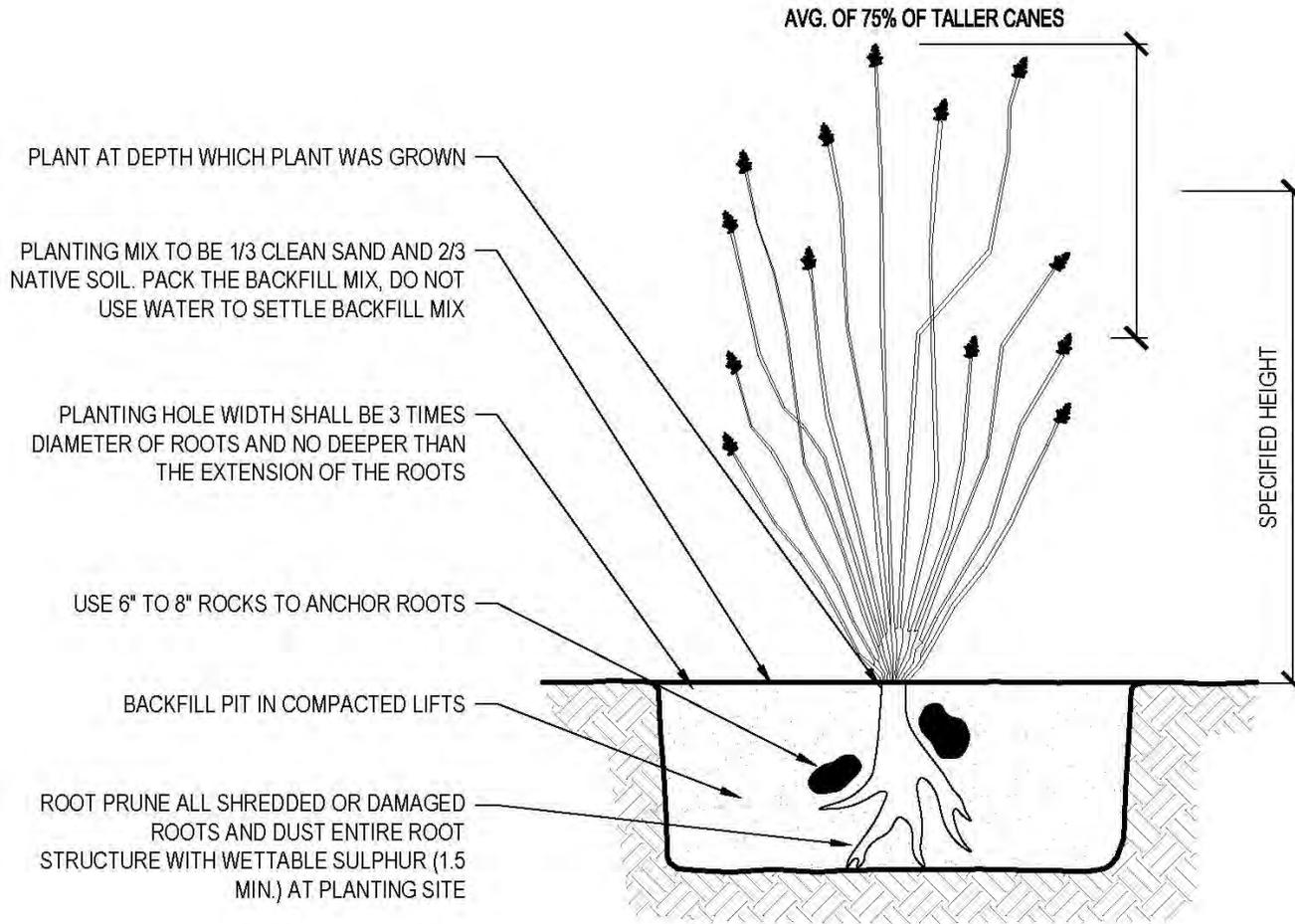
1. ARRANGE PLANT'S ROOT CROWN SO DEPTH OF BURY MATCHES ORIGINAL GROWING CONDITION
2. INSTALL PLANT SO ROOT STRUCTURE SITS ON EXISTING UNDISTURBED SOIL
3. MARK ORIGINAL GROWING ORIENTATION ON PLANT AND MAINTAIN MARK TO DEMONSTRATE PROPER PLACEMENT
4. ARRANGE PLANT TO MAINTAIN ORIGINAL GROWING ORIENTATION
5. INSTALL PLANT SO BARE ROOTS ARE OUT OF THE GROUND FOR NO MORE THAN 5 DAYS BEFORE PLANTING



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-706**  
**Cactus and Accent Planting**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

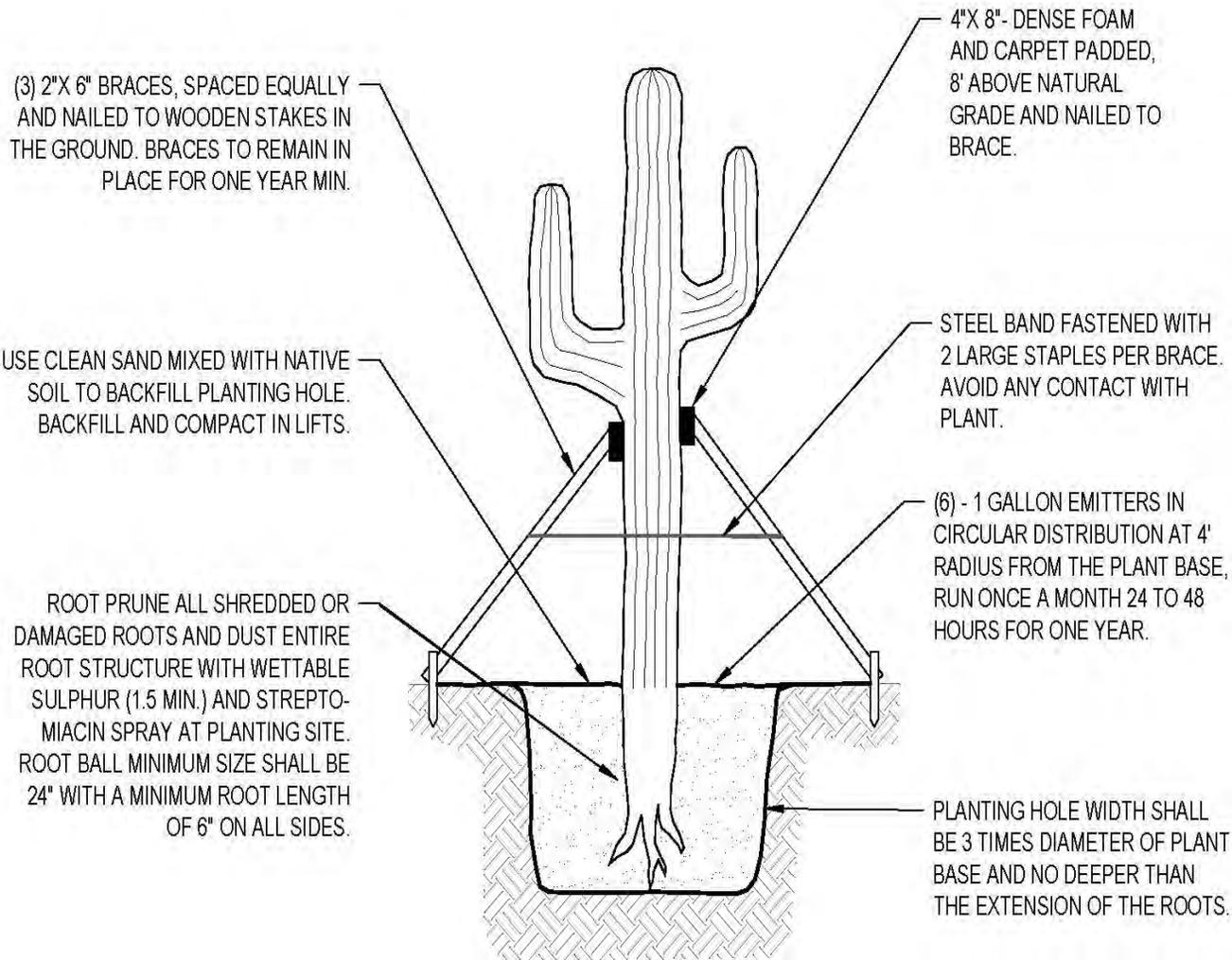
1. OCOTILLO TO HAVE A MINIMUM OF 10 CANES
2. WATER WEEKLY THROUGH THE SUMMER UNLESS SEASONAL RAIN IS SUFFICIENT
3. ARRANGE PLANT TO MAINTAIN ORIGINAL GROWING ORIENTATION



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-707**  
**Ocotillo Planting**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

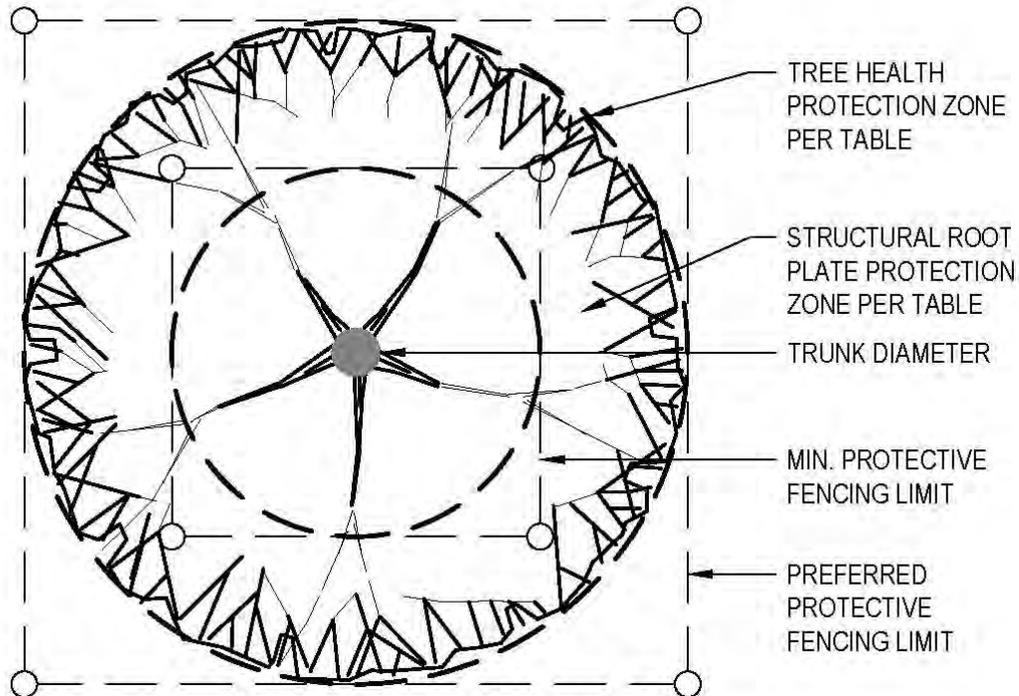
1. MAINTAIN ORIGINAL PLANT ORIENTATION. THE ORIGINAL "NORTH" ORIENTATION SHALL BE MARKED ON A RIB AT A HEIGHT OF 5' ABOVE GROUND LEVEL
2. WATER THOROUGHLY AT THE TIME OF TRANSPLANTING TO REMOVE AIR POCKETS AND ASSURE PROPER COMPACTION. BACKFILL SHALL BE FREE OF INJURIOUS ROCKS AND DEBRIS
3. ALLOW ROOTS TO HARDEN BEFORE WATERING PER SPECIFICATIONS. SEE SPECIFICATIONS FOR WATER SCHEDULE
4. PLANT IN AREAS SAFE FROM PRESENT AND FUTURE CONSTRUCTION ACTIVITIES
5. TRANSPLANT TO ORIGINAL DEPTH OF BURY
6. SMALL SAGUAROS TAKEN FROM A "NURSE" SITUATION SHALL BE REPLANTED IN PARTIAL SHADE AS APPROVED BY OWNER'S REPRESENTATIVE



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-708**  
**Saguaro Planting**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



TRUNK DIAMETER +/- 4.5' ABOVE GROUND	STRUCTURAL ROOT PLATE PROTECTION ZONE	TREE HEALTH PROTECTION ZONE
1"	6'-0"	8'-0"
2"	6'-0"	8'-0"
3"	6'-0"	8'-0"
4"	6'-0"	8'-0"
5"	6'-0"	8'-0"
6"	6'-0"	8'-0"
7"	6'-0"	8'-0"
8"	6'-0"	8'-0"
9"	6'-0"	9'-0"
10"	7'-0"	10'-0"
11"	7'-0"	11'-0"
12"	7'-0"	12'-0"
13"	7'-0"	13'-0"
14"	7'-0"	14'-0"
15"	8'-0"	15'-0"
16"	8'-0"	16'-0"
17"	8'-0"	17'-0"
18"	8'-0"	18'-0"
19"	8'-0"	19'-0"
20"	9'-0"	20'-0"
21"	9'-0"	21'-0"
22"	9'-0"	22'-0"
23"	9'-0"	23'-0"
24"	9'-0"	24'-0"
25"	10'-0"	25'-0"

**NOTES:**

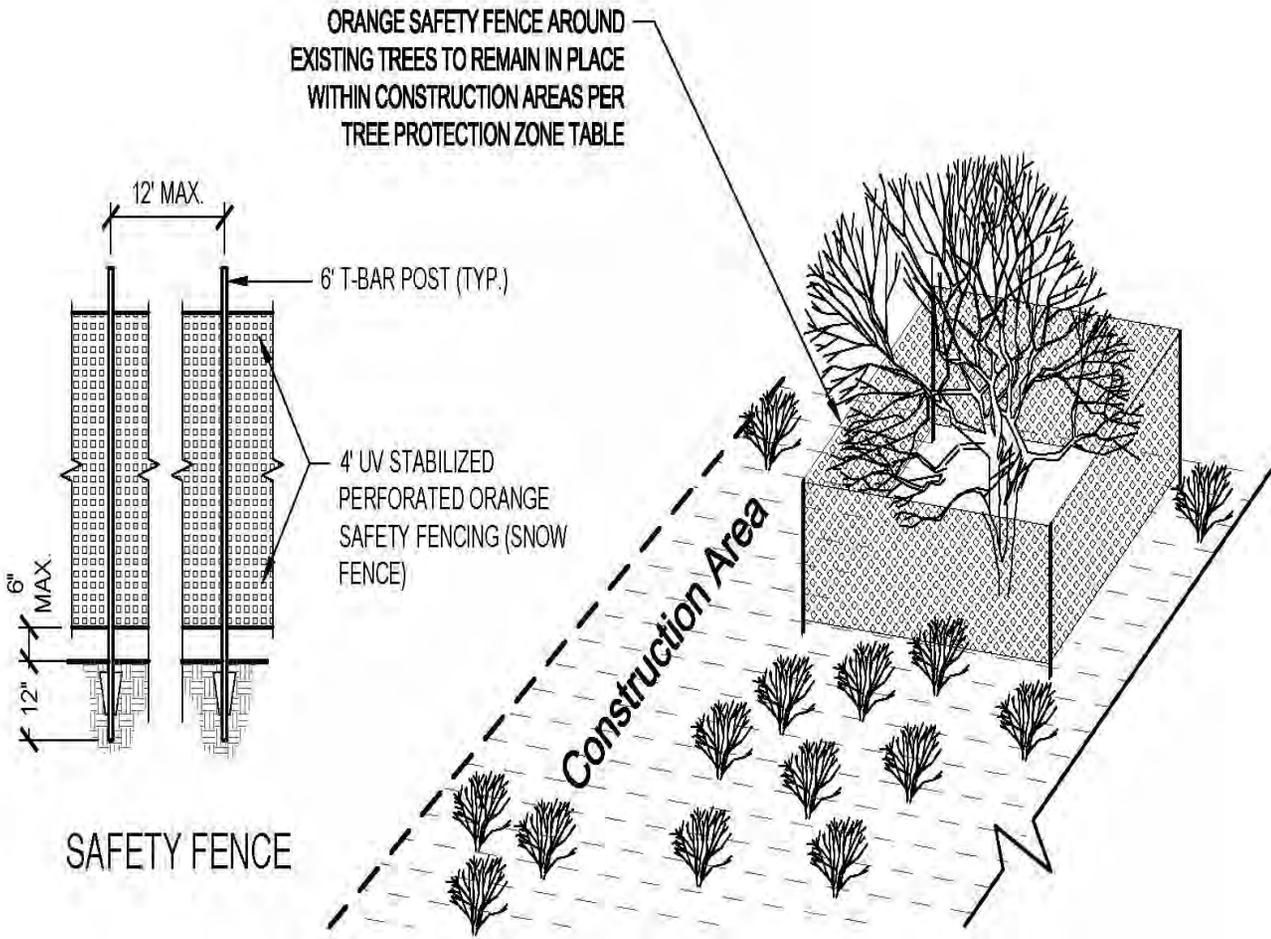
1. PROTECT TREES FROM ALL DISTURBANCE WITHIN STRUCTURAL ROOT PLATE ZONE. TREES SHOULD BE CONSIDERED FOR REMOVAL IF ANY OF THE STRUCTURAL ROOT PLATE ZONE OR MORE THAN 30% OF THE TREE HEALTH PROTECTION ZONE IS COMPROMISED
2. INSTALL PROTECTIVE FENCING PER DETAILS AT THE PREFERRED PROTECTIVE FENCING LIMIT OF THE TREE HEALTH ZONE WHERE NO PLANTING IS IDENTIFIED TO OCCUR NEAR EXISTING TREE. MUST OBTAIN APPROVAL FROM CITY ARBORIST TO INSTALL FENCING AT THE MINIMUM PROTECTIVE FENCING LIMIT AND MAINTAIN FENCING FOR THE DURATION OF CONSTRUCTION.
3. NO WORK, EQUIPMENT STORAGE, OR GROUND DISTURBANCE, INCLUDING PLANTING, SHALL OCCUR WITHIN THE FENCING LIMIT DURING CONSTRUCTION EXCEPT IRRIGATION EMITTER PLACEMENT WHICH SHALL BE INSTALLED WITH DISTRIBUTION TUBING ON TOP OF EXISTING SOIL UNDER MULCH
4. REMOVE FENCING UPON COMPLETION OF PLANTING INSTALLATION, ADD MULCH APPLICATION WHERE SHOWN ON THE PLANS. MAINTAIN MULCH AWAY FROM THE TRUNK OF THE TREE



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-720  
Plant Protection Zones**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

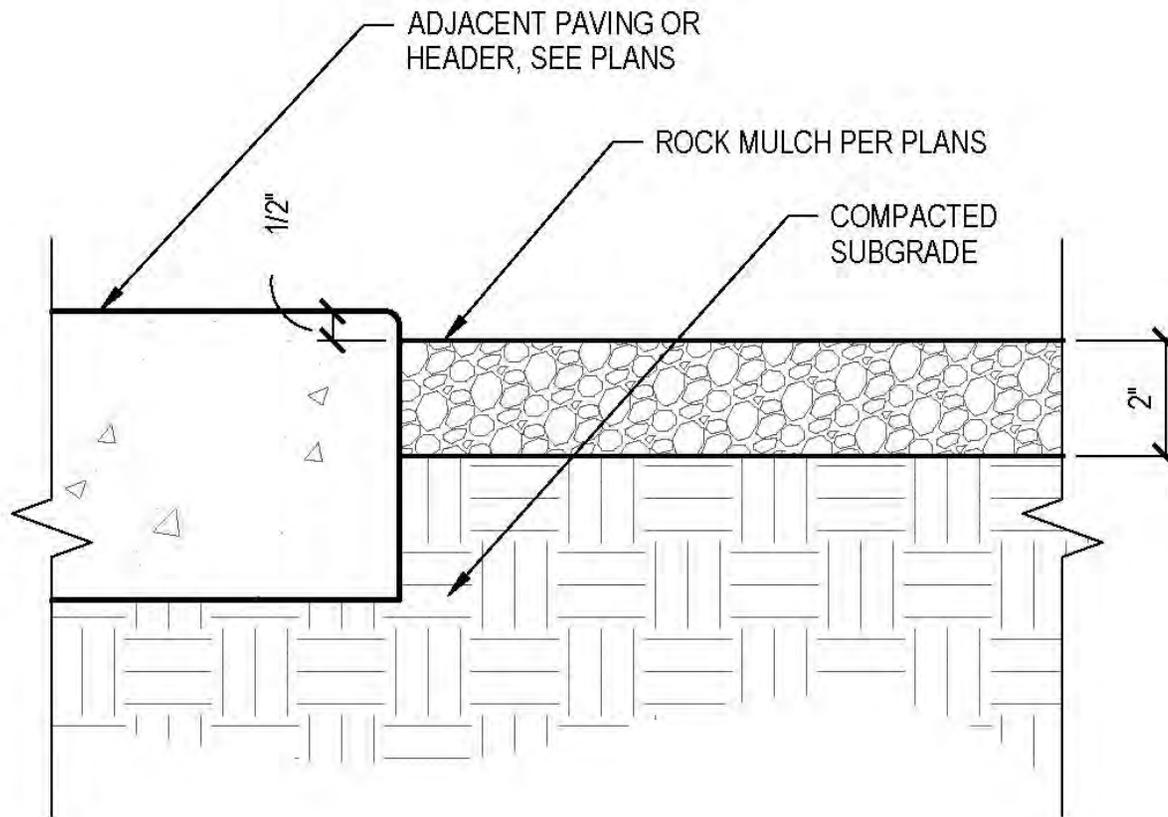
1. CONTRACTOR TO REFER TO TREE PROTECTION ZONE TABLE TO IDENTIFY MINIMUM FENCING DIMENSIONS BASED ON TREE TRUNK DIAMETER AT BREAST HEIGHT (DBH) AND UNDERSTORY PLANTING REQUIREMENTS PER THE PLANTING PLANS. NO UNDERSTORY PLANTS INDICATED TO BE PLANTED WITHIN THE STRUCTURAL ROOT PLATE PROTECTION ZONE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND RELOCATED TO PROTECT TREE HEALTH
2. CONTRACTOR SHALL STAKE FENCE LOCATION FOR APPROVAL PRIOR TO INSTALLATION
3. CONTRACTOR SHALL MAINTAIN PROTECTIVE FENCING/SAFETY FENCE THROUGH THE DURATION OF WORK UNTIL REMOVAL IS APPROVED BY THE CITY ARBORIST



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-721**  
**Protective Fencing**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

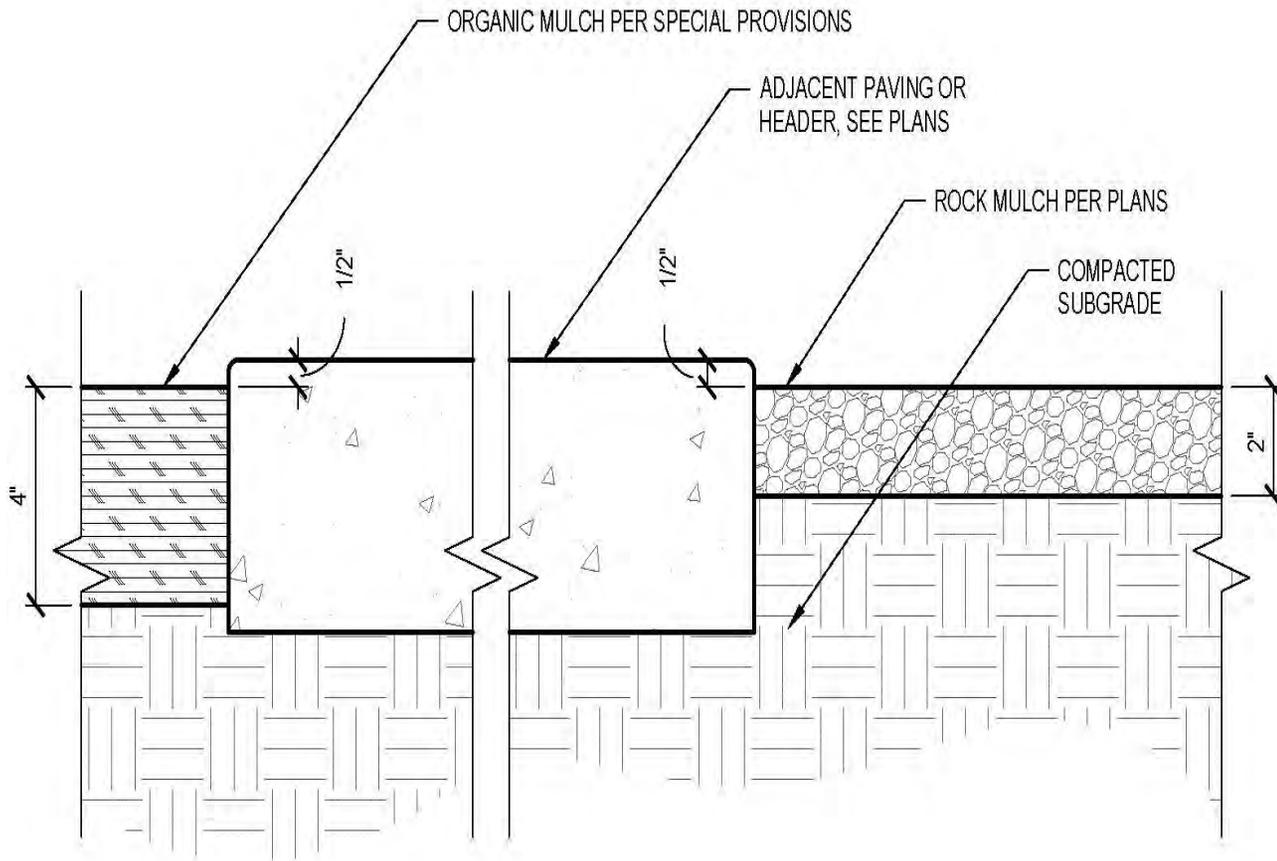
1. SEE LEGEND ON PLANS FOR SIZE AND COLOR OF ROCK MULCH
2. PRE-EMERGENT SHALL BE APPLIED TO SUBGRADE BEFORE INSTALLATION OF MULCH
3. FINAL APPLICATION OF PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE AFTER INSTALLATION OF MULCH IS RAKED SMOOTH AND UNIFORM



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-722**  
**Rock Mulch**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL



**NOTES:**

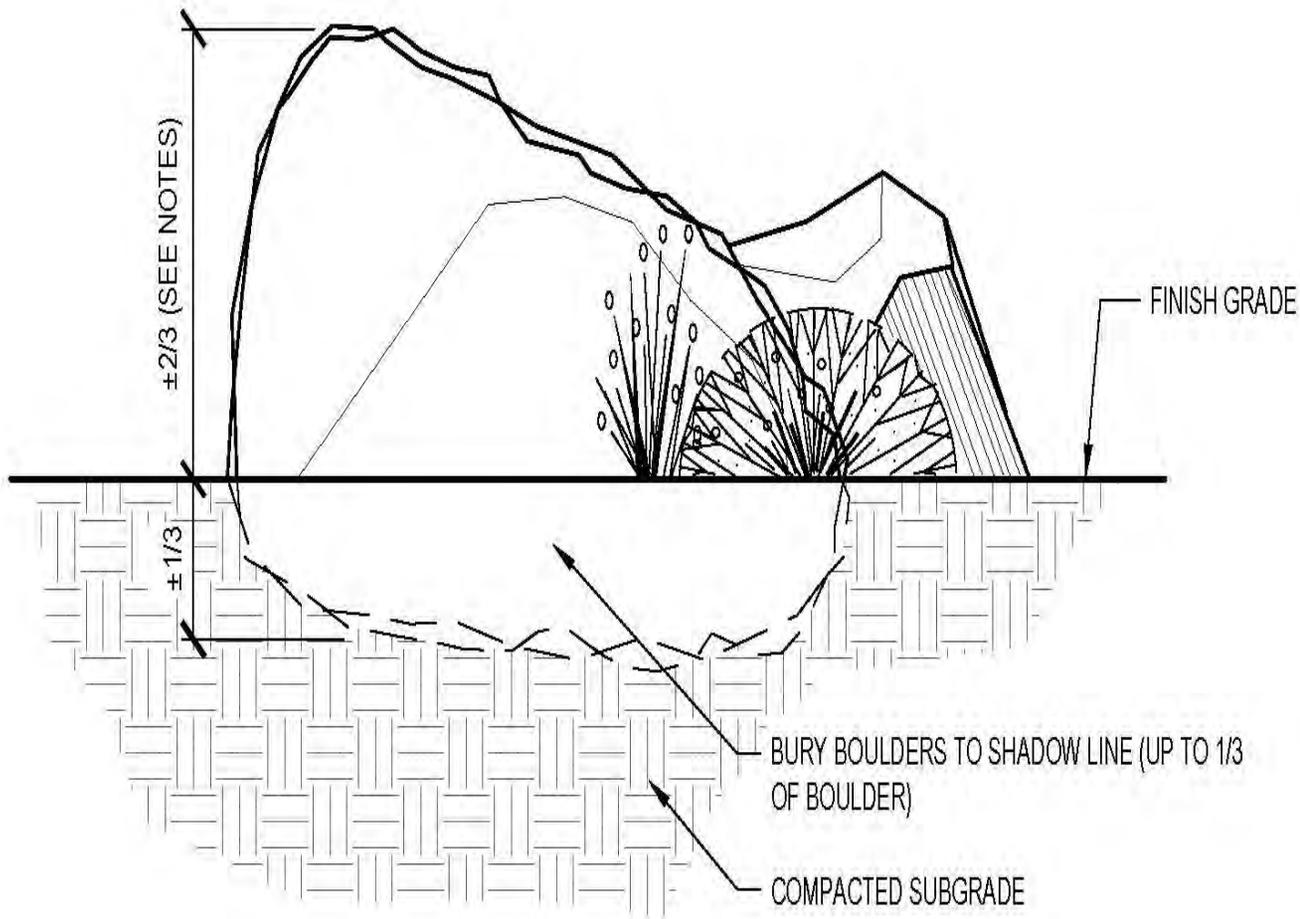
1. SEE LEGEND ON PLANS FOR SIZE AND COLOR OF ROCK MULCH
2. PRE-EMERGENT SHALL BE APPLIED TO SUBGRADE BEFORE INSTALLATION OF MULCH
3. FINAL APPLICATION OF PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE AFTER INSTALLATION OF MULCH IS RAKED SMOOTH AND UNIFORM



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-723**  
**Rock and Organic Mulch**

**THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL**



**NOTES:**

1. BURY UP TO 1/3 OF BOULDER TO CREATE A NATURAL IMPRESSION (TO SHADOW LINE)
2. USE STRAPS TO PLACE BOULDERS, PROTECT BOULDERS FROM SCRAPPING AND SCARRING
3. BOULDERS WITH EXCESS SCARRING WILL BE REJECTED
4. LOCATE BOULDER BEST SIDE UP
5. SEE LEGEND FOR BOULDER SIZE AND TYPE
6. BOULDER TO BE FREE AND CLEAN OF CONCRETE, PAINT, ETC.
7. DO NOT PLACE BOULDERS IN SIGHT VISIBILITY TRIANGLES OR SIGHT DISTANCE LINES



Rev. 01/2019

**CITY OF PEORIA STANDARD DETAIL - PE-724**  
**Boulder Placement**

THIS SUPPLEMENTAL STANDARD DETAIL FOR THE CITY OF PEORIA IS EFFECTIVE AS OF THE REVISION DATE LOCATED NEXT TO THE CITY SEAL