

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY



- CONSTRUCTION DETAILS
- CONSTRUCTION PLAN REQUIREMENTS
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EFFECTIVE 2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAILS

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SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAILS

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SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION PLAN REQUIREMENTS

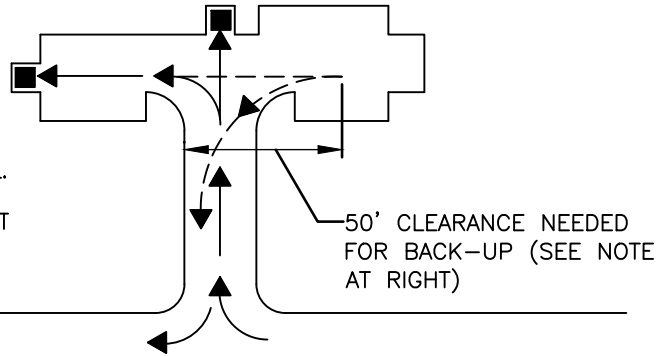
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY PUBLIC WORKS CONSTRUCTION NOTES

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY PUBLIC WORKS APPROVED MATERIALS LIST

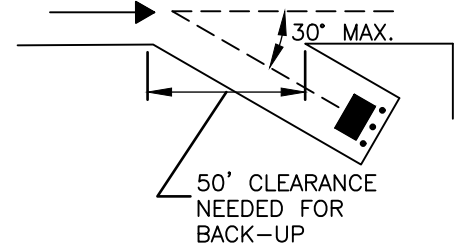
HAMMER HEAD DRIVE

PLEASE NOTE

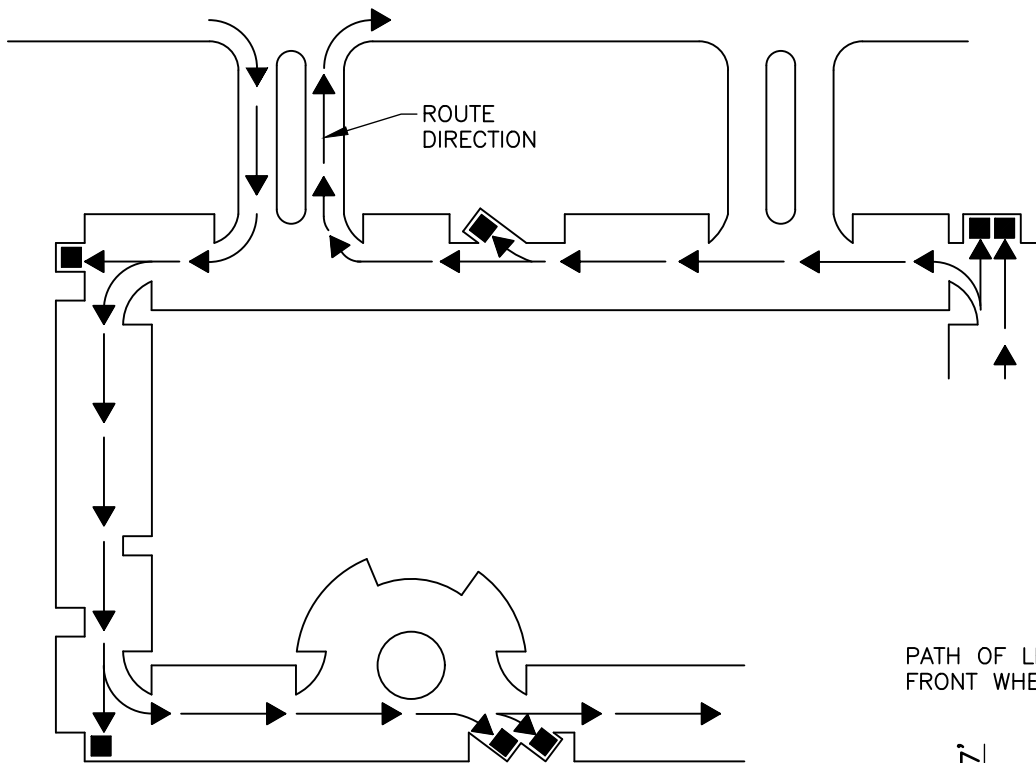
SOLID WASTE VEHICLES WEIGH APPROX. 29 TONS WHEN FULL. DRIVEWAYS MUST BE BUILT TO SUPPORT THIS WEIGHT WITHOUT DAMAGE TO DRIVE.



MAX. BIN DEVIATION



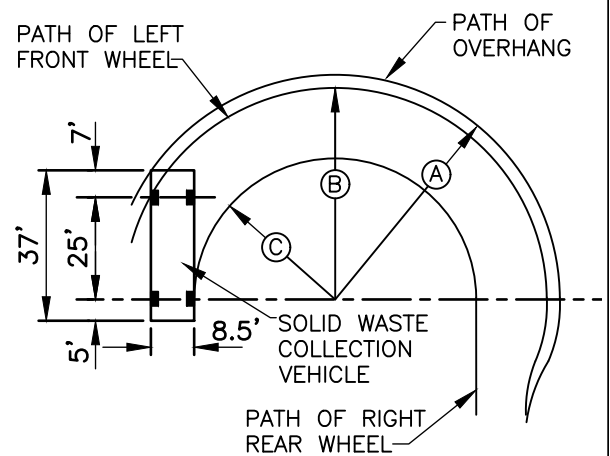
PUBLIC ROADWAY



A TYPICAL SOLID WASTE COLLECTION ROUTE

SAFETY NOTE

BACKING UP MORE THAN 50' AFTER SERVICE TO A SOLID WASTE BIN IS PROHIBITED. THE 50' IS MEASURED FROM THE BACK OF THE SOLID WASTE COLLECTION VEHICLE. MAKE SURE THE AREA HAS THE PROPER TURNING RADIUS AND ACCESS AREA TO LEAVE SITE. THE VEHICLE IS APPROX. 37' LONG. SOLID WASTE COLLECTION VEHICLES WILL NOT TURN WHILE BACKING.



N.T.S.

STANDARDS FOR SOLID WASTE VEHICLE ACCESS

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2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4100-1



CLEARANCE REQUIREMENTS

NOTES

1. ALL CURBS ARE TO BE ALIGNED ON THE OUTSIDE OF ENCLOSURE WALLS. THE CURBS SHALL NOT INTERFERE WITH THE ROUTE OF THE SOLID WASTE COLLECTION VEHICLE.
2. IN GENERAL TERMS, ALL SOLID WASTE COLLECTION ROUTES SHALL MEET ENGINEERING DESIGN CRITERIA (STREET WIDTHS, TURNING RADIUS) IN A MANNER THAT ALLOWS SOLID WASTE COLLECTION VEHICLES ACCESS TO BIN ENCLOSURES. SITES SHALL BE DESIGNED SO COLLECTION VEHICLES CAN SAFELY ACCESS AND LIFT A BIN WITHOUT OBSTRUCTIONS (GROUND LEVEL AND AERIAL OBSTRUCTIONS).
3. FOR THE SAFETY OF OTHERS, SOLID WASTE COLLECTION VEHICLES WILL NOT BACK UP MORE THAN 50 FEET AFTER SERVICING A BIN AND WILL NOT MAKE ANY TURNS WHILE BACKING.
4. NO AWNINGS OR BUILDING PROJECTIONS ALLOWED IN SOLID WASTE COLLECTION VEHICLE ROUTES. MINIMUM OVERHEAD CLEARANCE OF 14' IS REQUIRED IN DRIVE, 20' OVER BARREL SERVICE LOCATION AND 25' OVER BIN ENCLOSURE AREA.
5. ROUTES SHALL BE CLEAR OF ALL OBSTRUCTIONS (CURBS, WALLS, OVERHEAD WIRES, AND AWNINGS) TO PREVENT DAMAGE FROM THE COLLECTION VEHICLE.
6. TAKE NOTE OF THE SOLID WASTE COLLECTION ROUTE. THE COLLECTION VEHICLE SHALL TRAVEL THROUGH A SITE ONCE WITHOUT BACKTRACKING.
7. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.
8. BIN ENCLOSURES SHALL BE LOCATED AWAY FROM ENTRANCES AND EXITS OR BUSINESS DRIVE-THRU'S SO SOLID WASTE COLLECTION VEHICLE DOES NOT CREATE A SAFETY HAZARD BY BLOCKING IN-COMING OR OUT-GOING TRAFFIC.
9. STANDARDS FOR SINGLE, DOUBLE, AND TRIPLE-WIDE BIN ENCLOSURES ARE ADDRESSED IN SRP-MIC DETAILS 4101-1, 4101-2, AND 4102.

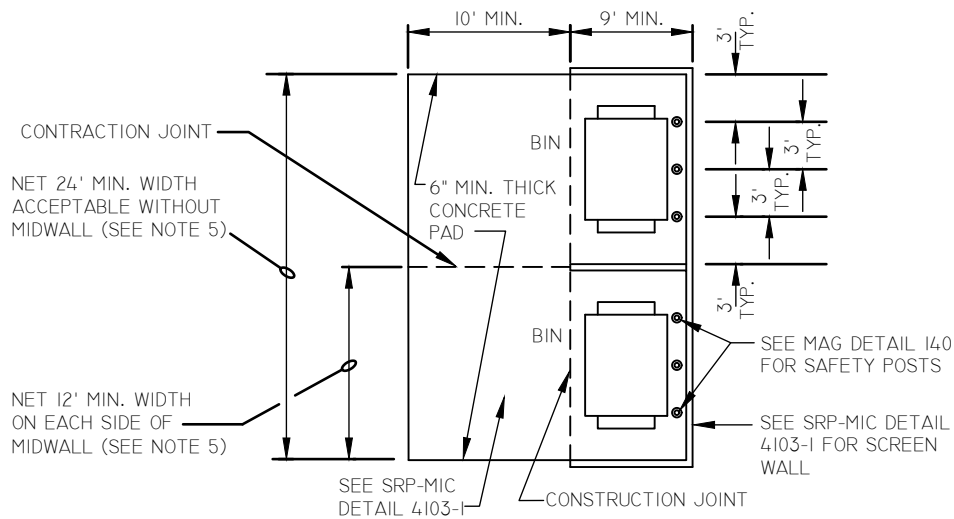
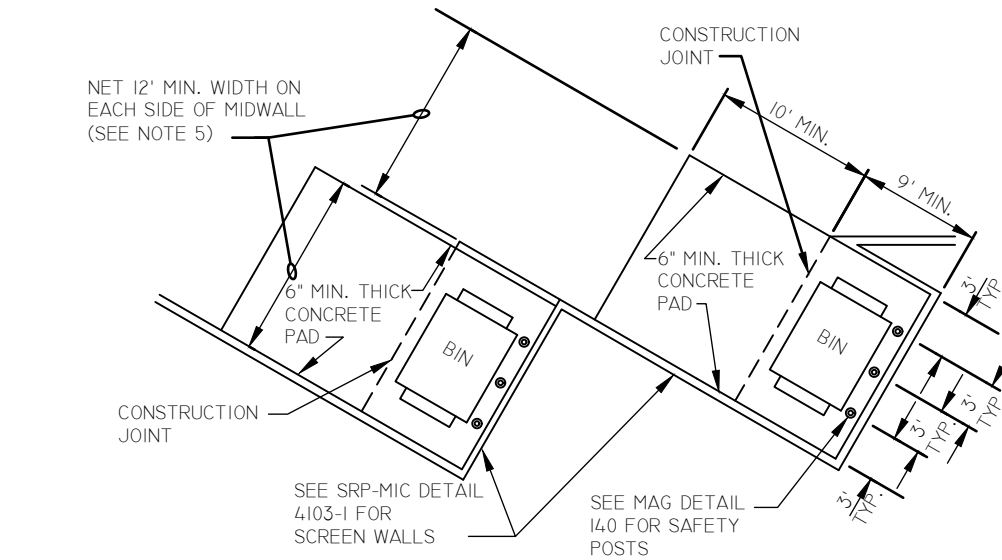
STANDARDS FOR SOLID WASTE VEHICLE ACCESS – NOTES

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2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4100-2





DOUBLE-WIDE BIN ENCLOSURE CONFIGURATIONS

N.T.S.

DOUBLE-WIDE BIN ENCLOSURES

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SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4101-1



NOTES

1. ALL COMMERCIAL PROPERTIES SHALL BE DESIGNED WITH ENCLOSURES TO ACCOMMODATE (1) REFUSE AND (1) RECYCLING ENCLOSURE FOR EVERY 20,000 SQUARE FEET OF BUILDING SPACE. RESTAURANTS WHICH ARE DESIGNED ON A SINGLE PAD SHALL HAVE A MINIMUM (1) REFUSE AND (1) RECYCLING ENCLOSURE. THE ENCLOSURES CAN BE SET UP AS DOUBLE OR SINGLE TO MAXIMIZE THE USE OF THE PROPERTY.
2. 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.
3. SINGLE-WIDE BIN ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 12 FEET.
4. DOUBLE-WIDE BIN ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 24 FEET WITHOUT MIDWALLS. ALTHOUGH NOT PREFERRED, DOUBLE WIDE BIN ENCLOSURES CAN BE DESIGNED WITH MIDWALLS WITH A NET ENCLOSURE OPENING OF 12 FEET ON EACH SIDE OF MIDWALL.
5. GATES, HINGES, SAFETY POSTS, & MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MIN. 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.
6. DO NOT PLACE REFUSE ENCLOSURES AT THE END OF A DEAD END PARKING AISLE. LOCATE AND POSITION ENCLOSURES TO FACILITATE COLLECTION WITHOUT BACKTRACKING. LOCATE ENCLOSURES TO BE EASILY ACCESSIBLE FOR COLLECTION BY A SIMPLE ROUTE.
7. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING SO THERE IS A MINIMUM 12' WIDTH WITHIN EACH ENCLOSURE. DOUBLE ENCLOSURE GATES MUST BE ABLE TO OPEN SIMULTANEOUSLY.
8. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.
9. BINS THAT ARE VISIBLE FROM A PUBLIC ROADWAY SHALL HAVE ENCLOSURE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW.
10. BIN ENCLOSURES TO BE A MINIMUM OF 3 FEET FROM ANY NON-COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT; 5 FEET FROM ANY COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT (PER 2015 IFC).
11. STANDARDS FOR SOLID WASTE VEHICLE ACCESS ARE ADDRESSED IN SRP-MIC DETAIL 4100-1 & 4100-2.
12. STANDARDS FOR TRIPLE WIDE ENCLOSURES ARE ADDRESSED IN SRP-MIC DETAIL 4102.
13. STANDARDS FOR BIN ENCLOSURE SCREEN WALLS, SAFETY POSTS, AND GATES ARE ADDRESSED IN SRP-MIC DETAIL 4103-1 & 4103-2.
14. RESTAURANTS MUST PROVIDE A SEPARATE ENCLOSED AREA TO ACCOMMODATE THEIR GREASE TRAP. THIS DESIGNATED AREA MUST NOT INTERFERE WITH THE TRASH/RECYCLING COLLECTION.
15. SOLID WASTE ENCLOSURES MAY INCLUDE WATER CONNECTIONS & DRAINS TO FACILITATE CLEANING OF DUMPSTERS. THESE SHOULD BE LOCATED TO NOT IMPEDE THE ENCLOSURE OPENING (AND GATING IF REQUIRED). ADDITIONAL ITEMS SUCH AS LANDSCAPING CONTROL BOXES AND LIGHTING MAY BE POSITIONED ON THE OUTSIDE OF THE ENCLOSURE WALLS.
16. TREE PLANTING SHOULD NOT TAKE PLACE WITHIN TEN (10) FEET OF THE BIN ENCLOSURE AND SHOULD BE SPACED SO AS NOT TO CREATE AN AERIAL OBSTRUCTION FOR THE BIN DUMPING AT THE FINAL FULL GROWTH DIMENSIONS.

N.T.S.

SINGLE & DOUBLE-WIDE BIN ENCLOSURES – NOTES

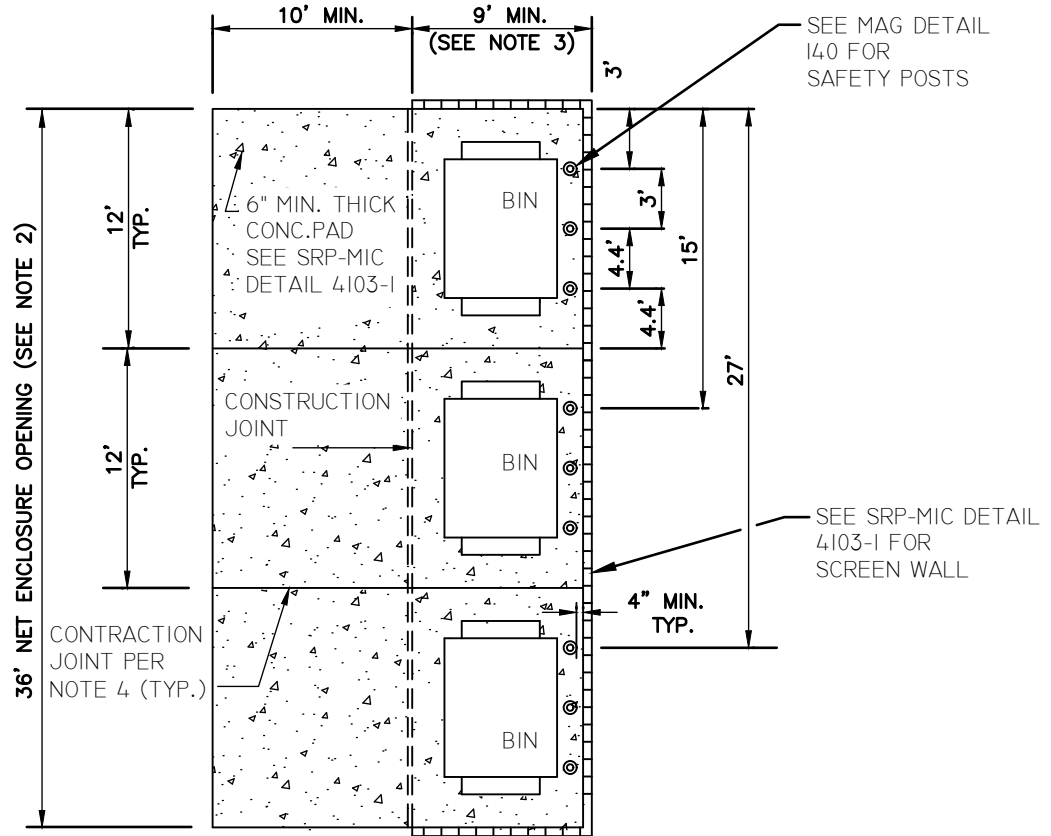
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2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4101-2

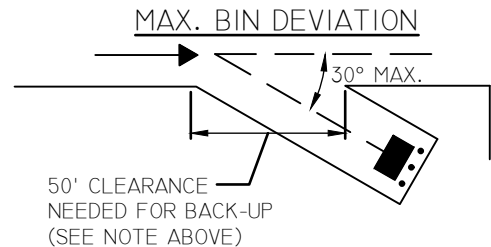


TRIPLE-WIDE BIN ENCLOSURE



NOTES

1. MULTI-UNIT RESIDENTIAL DEVELOPMENTS MAY BE DESIGNED WITH A TRIPLE-WIDE ENCLOSURE TO ACCOMMODATE RECYCLING. ADDITIONAL ENCLOSURES MAY BE NECESSARY DEPENDING ON NUMBER OF UNITS.
2. TRIPLE-WIDE ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 36 FEET AND SHALL BE DESIGNED WITHOUT MIDWALLS. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING. GATES MUST BE ABLE TO OPEN SIMULTANEOUSLY.
3. GATES, HINGES, SAFETY POSTS, AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.
4. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.
5. CONTRACTION JOINTS MAY BE EITHER SCORED OR SAWCUT 1-INCH DEEP.
6. GATES, HINGES AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING SO THERE IS A MINIMUM 12' WIDTH CLEAR WITHIN EACH ENCLOSURE.



N.T.S.

STANDARDS FOR TRIPLE WIDE BIN ENCLOSURES

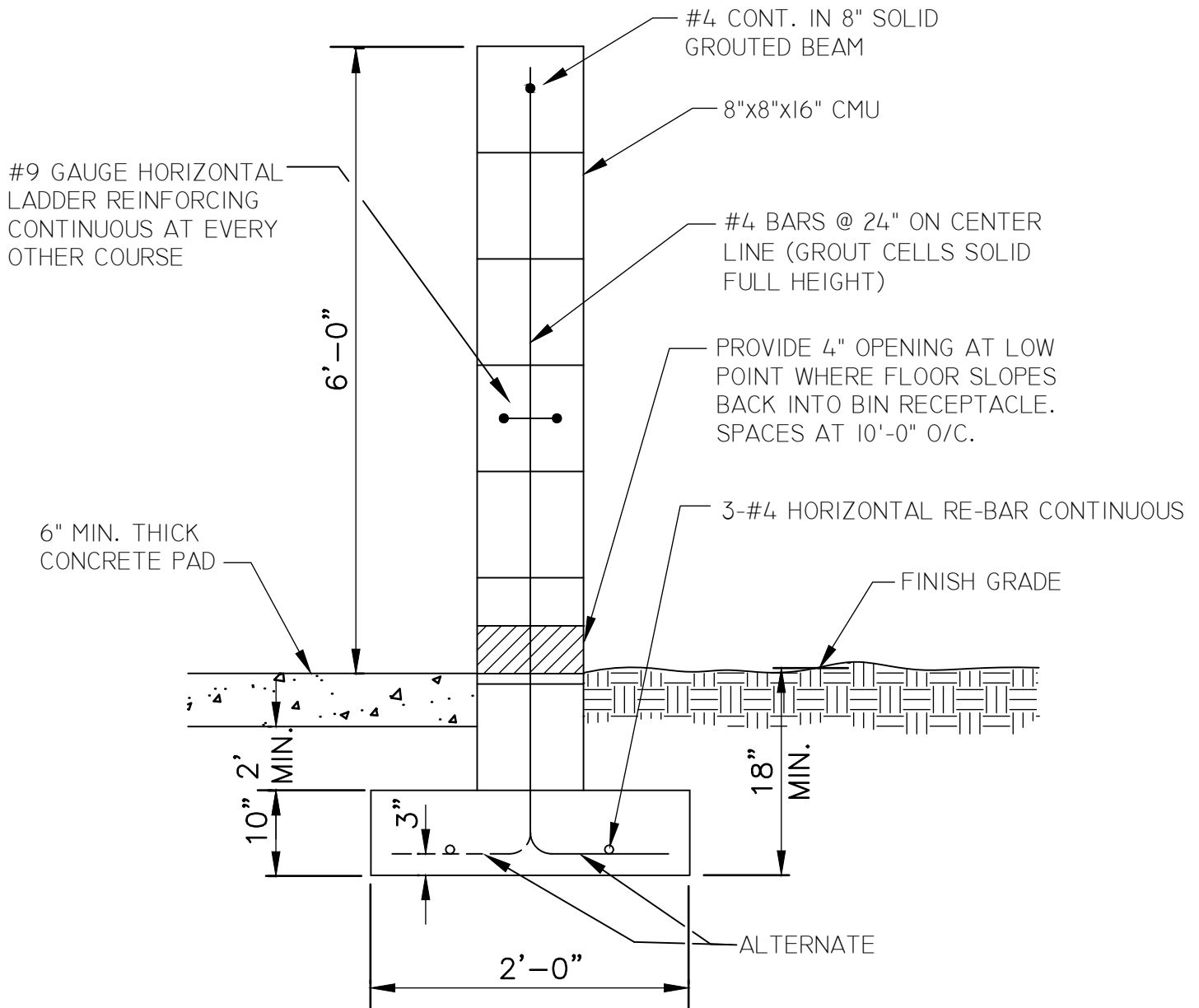
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SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4102



6-FOOT MASONRY SCREEN WALL



NOTE:

- I. DESIGN SHOULD ENSURE STANDARD HAS AN APPLICABLE SOIL SITE CONDITION.

N.T.S.

STANDARDS FOR BIN ENCLOSURE WALL AND GATE

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SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4103-1



NOTES

1. TRASH AND RECYCLING BIN AREA SHALL BE SCREENED WITH A SIX FOOT MIN. (6' MIN.) MASONRY WALL PER SRP-MIC DETAIL 4103-1.
2. EXTERIOR FINISH OF 6 FOOT MASONRY SCREEN WALLS SHALL BE COORDINATED ARCHITECTURALLY WITH PRIMARY BUILDING FINISHES.
3. BIN ENCLOSURE TO BE A MINIMUM OF 3 FEET FROM ANY NON-COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT, AND 5 FEET FROM ANY COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT (PER 2015 IFC).
4. BINS THAT ARE VISIBLE FROM A PUBLIC ROADWAY SHALL HAVE ENCLOSURE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW.
5. 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.
6. BIN ENCLOSURES SHALL HAVE (3) 6" DIAMETER STEEL SAFETY POSTS INSTALLED IN THE BACK OF THE ENCLOSURE ONLY PER MAG DETAIL 140.
7. STANDARDS FOR SOLID WASTE VEHICLE ACCESS ARE ADDRESSED IN SRP-MIC DETAIL 4100-1 AND 4100-2.
8. STANDARDS FOR SINGLE, DOUBLE, AND TRIPLE-WIDE BIN ENCLOSURES ARE ADDRESSED IN SRP-MIC DETAILS 4101-1, 4101-2 AND 4102.

STANDARDS FOR BIN ENCLOSURE WALL AND GATE—NOTES

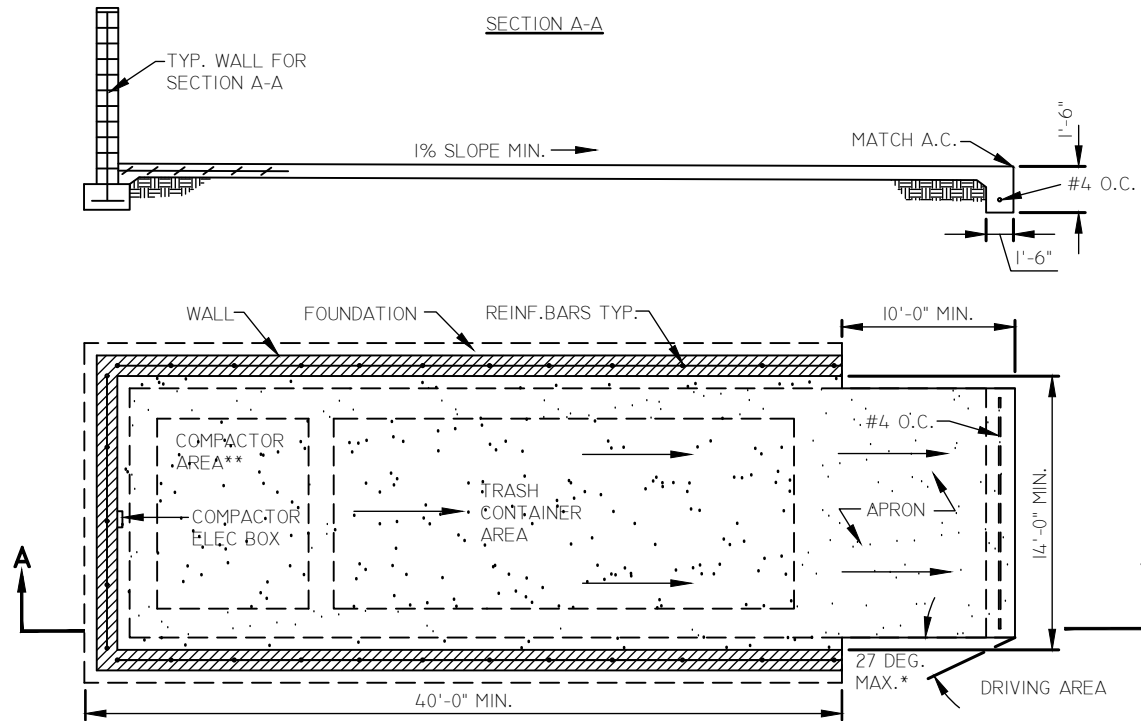
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SALT RIVER PIMA—MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4103—2



LARGE COMPACTOR REFUSE AREA



NOTES:

- I. ALL INTERIOR PAD DIMENSIONS ARE MINIMUMS.
2. WALL HEIGHT DETERMINED BY COMPACTOR HEIGHT (6'-0" MIN.).
3. FINAL LOCATION AND ORIENTATION TO BE DETERMINED BY THE SRP-MIC PUBLIC WORKS DEPARTMENT.
4. PROVIDE PEDESTRIAN ACCESS TO THIS AREA (THRU WALL).
5. SAFETY POSTS, WHEEL STOPS, & GUIDE RAILS SECURED TO CONCRETE SLAB, ARE REQUIRED FOR ALL ENCLOSURES. SAFETY POSTS ARE ADDRESSED IN MAG DETAIL 140.
6. RINSE AND WASH WATER FROM CLEANING WASTE CONTAINERS INTO A SANITARY SEWER. DO NOT DISCHARGE WASH WATER TO THE STREET OR STORM DRAIN. CLEAN IN DESIGNATED WASH AREA THAT DRAINS TO A CLARIFIER.
7. ANY DOORS PROVIDED (NOT SHOWN ON THIS DETAIL) SHALL BE SELF-CLOSING AND SELF-LATCHING.
8. GATES (NOT SHOWN ON THIS DETAIL) SHALL BE PROVIDED FOR SCREENING PURPOSES ACROSS THE FRONT OF THE ENCLOSURE. STANDARDS FOR GATES ARE ADDRESSED IN SRP-MIC DETAILS 4103-1 AND 4103-2.
9. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING.
10. ENCLOSURES SHALL HAVE A MINIMUM OPENING OF 14'.
11. SOME COMPACTORS MAY HAVE COMPACTOR AREA IN FRONT (PREFERRED METHOD). SELF LOADING FRONT LOAD COMPACTOR PREFERRED.

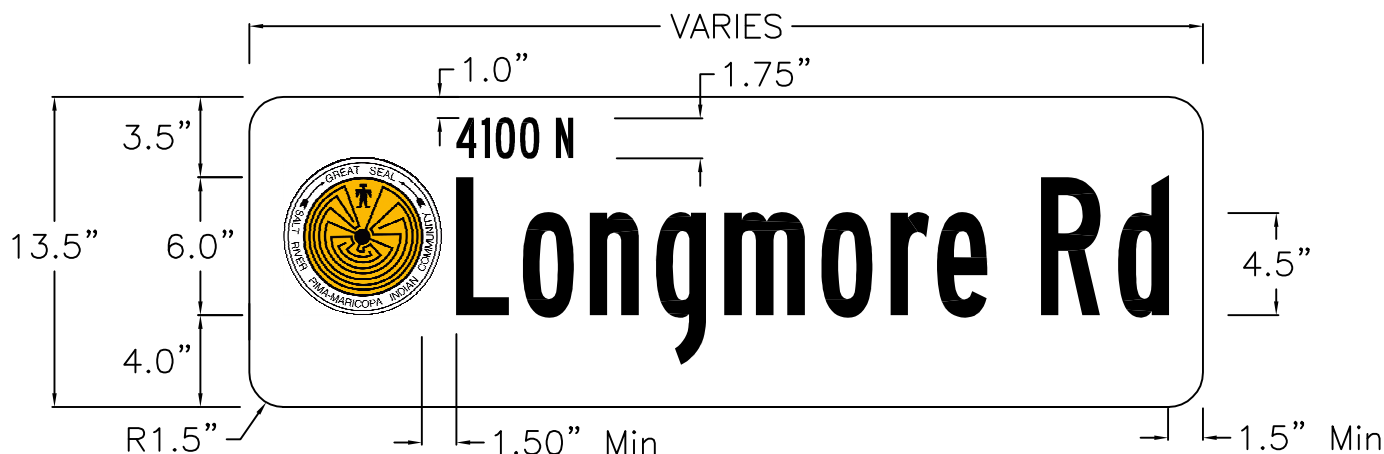
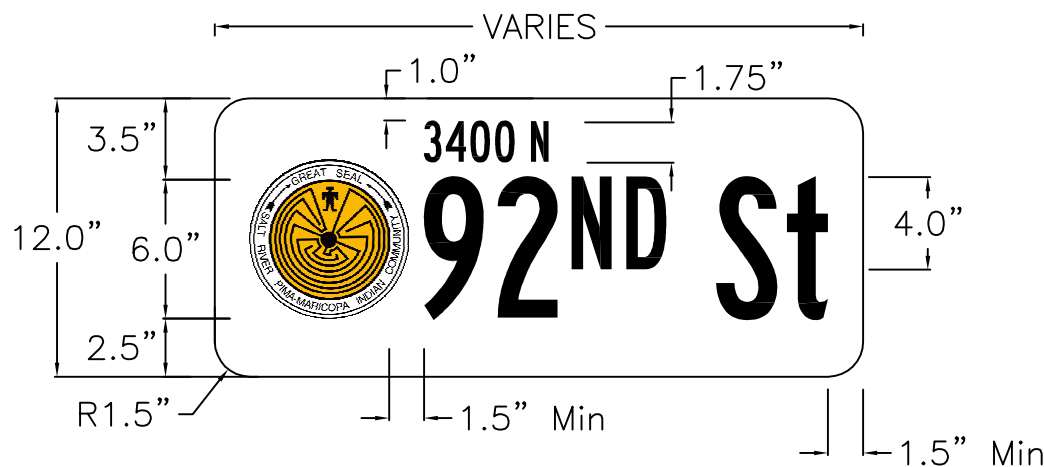
STANDARDS FOR LARGE COMPACTOR REFUSE AREA

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2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4104





1. SIGN SHALL BE .125" FLAT SHEET ALUMINUM.
2. SIGN SHALL MEASURE 12" HEIGHT OR 13.5" HEIGHT FOR TEXT CONTAINING DESCENDING CHARACTERS.
3. ALL LEGEND FONT SHALL BE BLACK HIGHWAY GOTHIC FHWA SERIES "B"
4. SHEETING SHALL BE ASTM D-4956-04 PROPOSED TYPE XI SHEETING (3M DG34090 SERIES OR EQUIVALENT)
5. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED WITH INK.
6. LOGO SHALL BE COLOR AND SCREEN PRINTED
7. ALL SIGNS SHALL HAVE A 3M 1160 OR EQUIVALENT ANTI-GRAFFITI OVERLAY FILM
8. NEGATIVE KERNING MAY BE USED IN SPECIAL CIRCUMSTANCES TO REDUCE SIGN WIDTH, BUT SHALL NOT EXCEED 25%.
9. SIGN POST FABRICATION SHALL FOLLOW SRPMIC SUPP. DETAIL 4107.
10. BLOCK NUMBERING SHALL DESIGNATE THE ADDRESS ALONG THE NAMED ROADWAY.

INTENDED USAGE:

TYPE "A" STREET NAME SIGNS SHALL BE USED ON ALL LOCAL OR HIGHER STREET DESIGNATIONS WHICH ARE GENERALLY LOCATED ON THE MID-SECTION AND SECTION LINES. (SEE FIGURE 34 OF THE SRPMIC LONG RANGE TRANSPORTATION PLAN.)

N.T.S.

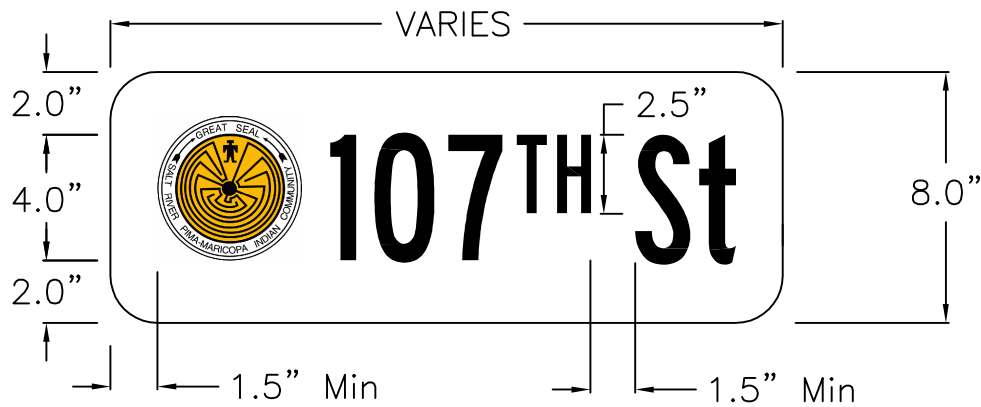
STREET NAME SIGNS – TYPE A

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2018

STANDARD DETAIL
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

DETAIL NO.
4105





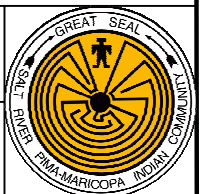
1. SIGN SHALL BE .125" FLAT SHEET ALUMINUM.
2. SIGN SHALL MEASURE 8" HEIGHT OR 9" HEIGHT FOR TEXT CONTAINING DESCENDING CHARACTERS.
3. ALL LEGEND FONT SHALL BE BLACK HIGHWAY GOTHIC FHWA SERIES "B"
4. SHEETING SHALL BE ASTM D-4956-04 PROPOSED TYPE XI SHEETING (3M DG34090 SERIES OR EQUIVALENT)
5. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED WITH INK.
6. LOGO SHALL BE COLOR AND SCREEN PRINTED
7. ALL SIGNS SHALL HAVE A 3M 1160 OR EQUIVALENT ANTI-GRAFFITI OVERLAY FILM
8. NEGATIVE KERNING MAY BE USED IN SPECIAL CIRCUMSTANCES TO REDUCE SIGN WIDTH, BUT SHALL NOT EXCEED 25%.
9. SIGN POST FABRICATION SHALL FOLLOW SRPMIC SUPP. DETAIL 4107.
10. TYPE B STREET NAME SIGNS DO NOT CONTAIN BLOCK NUMBERING.

INTENDED USAGE:

TYPE "B" STREET NAME SIGNS SHALL BE USED ON ALL LOCAL OR HIGHER STREET DESIGNATIONS WHICH ARE GENERALLY LOCATED ON THE QUARTER-SECTION LINE OR LESS. (SEE FIGURE 34 OF THE SRPMIC LONG RANGE TRANSPORTATION PLAN.)

N.T.S.

STREET NAME SIGNS – TYPE B



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2018

STANDARD DETAIL
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

DETAIL NO.
4106

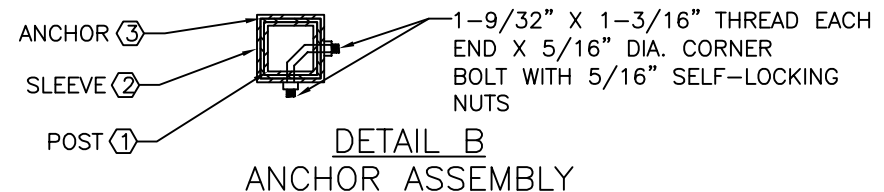
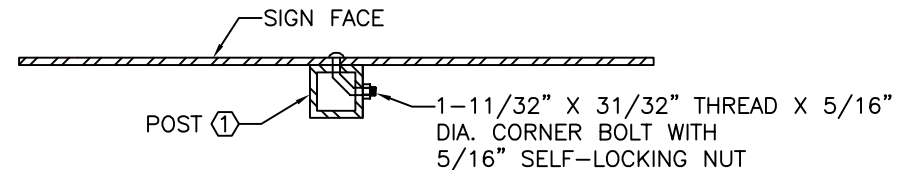
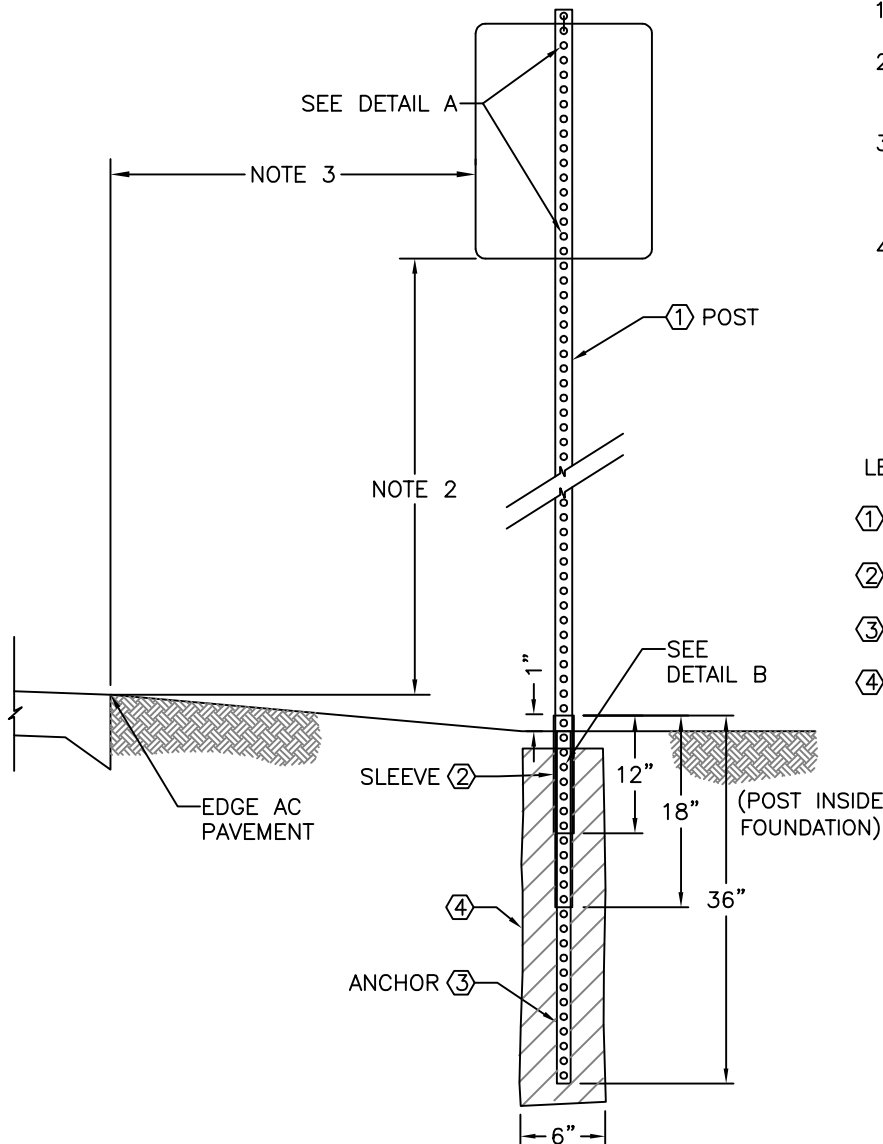
NOTES:

1. SIGN POST, SLEEVE AND ANCHOR PER SRPMIC SUPPLEMENT SPEC.
2. SIGN MOUNTING HEIGHT SHALL BE 7'-0" MIN. (TOP OF PAVEMENT TO BOTTOM OF SIGN). WHEN NO STOP SIGN IS REQUIRED, THE STREET NAME IS MOUNTED AT 9'-6".
3. SIGN FACE SHOULD BE 12'-0" MIN. FROM EDGE OF PAVEMENT ON RURAL ROADS WITHOUT CURBS. FOR ROADS WITH CURBS LOCATE FACE OF SIGN 2'-0" MIN. BEHIND BACK OF CURB OR SIDEWALK.
4. SIGNS SHALL USE THE FOLLOWING CROSS BRACKETS:

SIGN LENGTH	BRACKET SIZE
$6" \leq L \leq 18"$	6"
$18" < L \leq 36"$	12"
$36" < L \leq 48"$	18"
$L > 48"$	24"

LEGEND:

- ① POST: 2"x2"x12' SQUARE PERFORATED 0.105" GALVANIZED STEEL TUBING.
- ② SLEEVE: 2½"x2½"x18" SQUARE PERFORATED GALVANIZED STEEL TUBING.
- ③ ANCHOR: 2¼"x2¼"x36" SQUARE PERFORATED 0.105" GALVANIZED STEEL TUBING
- ④ ANCHOR ASSEMBLY ENCASED WITH CLASS B CONCRETE, MINIMUM 6" DIAMETER, 2" BELOW FINAL GRADE.



N.T.S.

SIGN POST INSTALLATION

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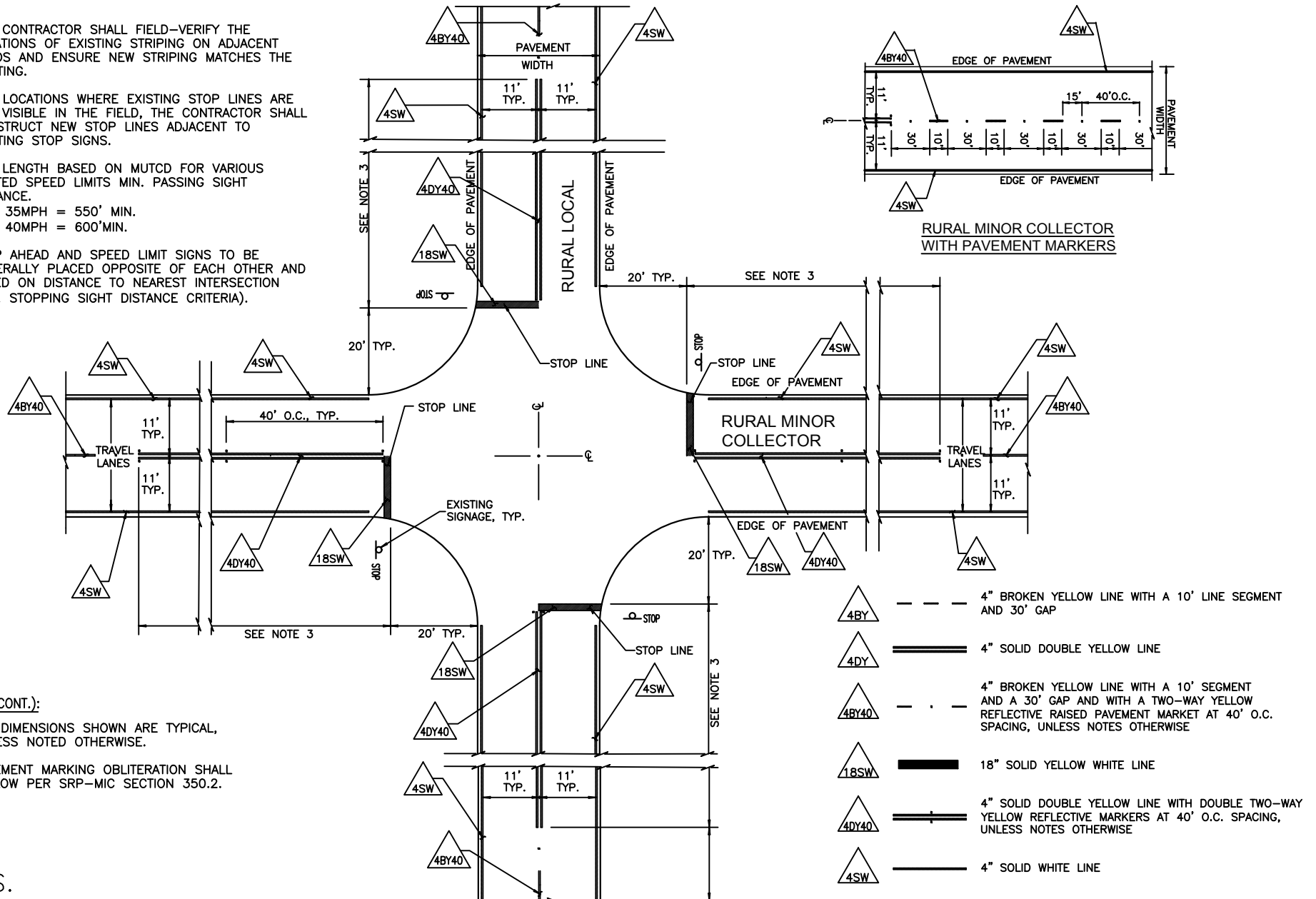
STANDARD DETAIL
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

DETAIL NO.
4107



NOTES:

1. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATIONS OF EXISTING STRIPING ON ADJACENT ROADS AND ENSURE NEW STRIPING MATCHES THE EXISTING.
2. FOR LOCATIONS WHERE EXISTING STOP LINES ARE NOT VISIBLE IN THE FIELD, THE CONTRACTOR SHALL CONSTRUCT NEW STOP LINES ADJACENT TO EXISTING STOP SIGNS.
3. 4DY LENGTH BASED ON MUTCD FOR VARIOUS POSTED SPEED LIMITS MIN. PASSING SIGHT DISTANCE.
35MPH = 550' MIN.
40MPH = 600' MIN.
4. STOP AHEAD AND SPEED LIMIT SIGNS TO BE GENERALLY PLACED OPPOSITE OF EACH OTHER AND BASED ON DISTANCE TO NEAREST INTERSECTION (MIN. STOPPING SIGHT DISTANCE CRITERIA).



NOTES (CONT.):

5. ALL DIMENSIONS SHOWN ARE TYPICAL, UNLESS NOTED OTHERWISE.
6. PAVEMENT MARKING OBLITERATION SHALL FOLLOW PER SRP-MIC SECTION 350.2.

N.T.S.

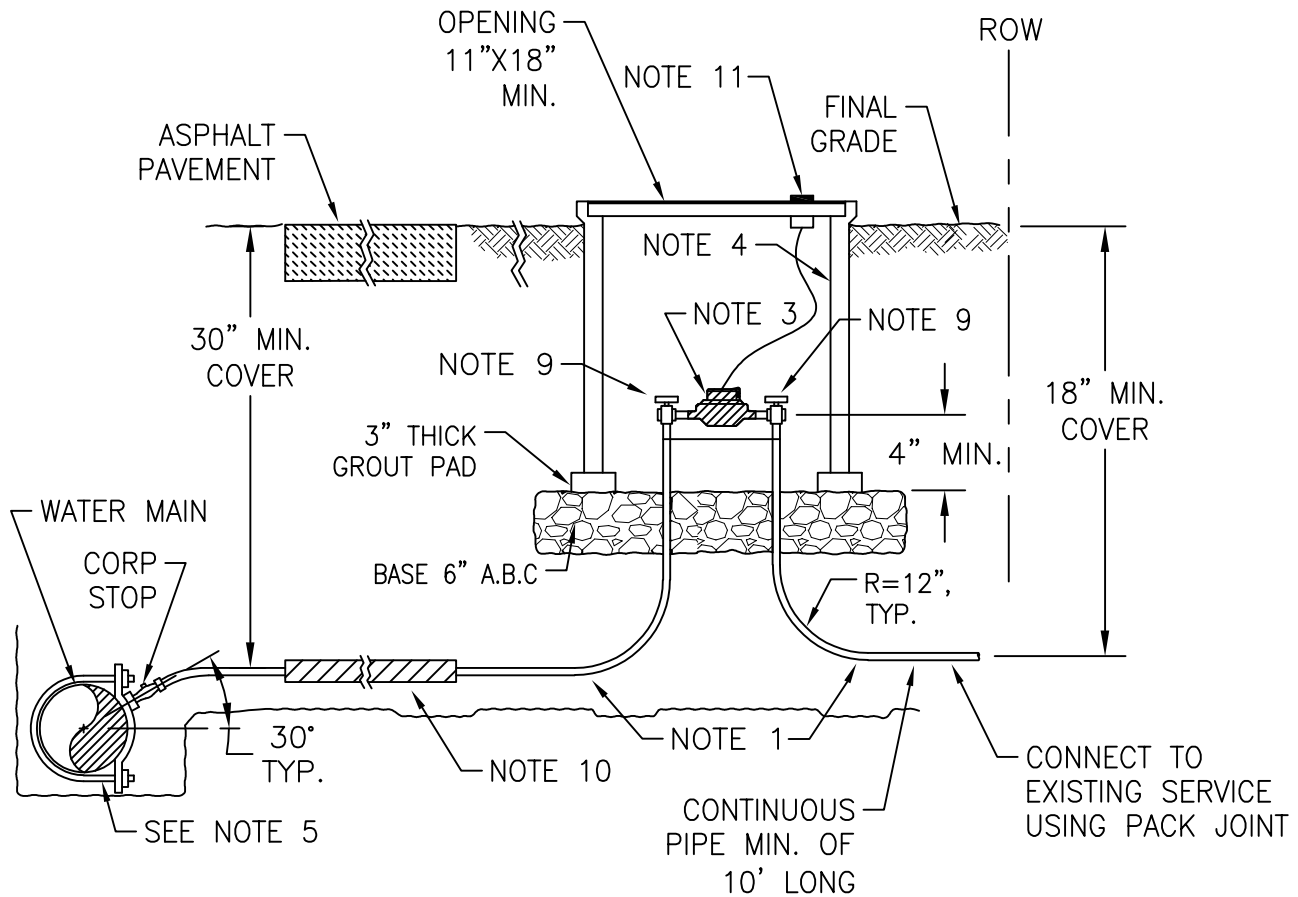
STRIPING PLAN
TYP. 4-WAY INTERSECTION & PAVED ROAD (RURAL)

STANDARD DETAIL
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

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2018

DETAIL NO.
4108





NOTES:

1. WATER SERVICE 1" DIA. (EXCEPT AS NOTED). 1" DIA PIPE FOR SERVICE RUNS OF 100' OR LESS, 2" DIA PIPE FOR SERVICE RUNS OF 100' OR MORE. TYPE K SOFT COPPER WITH BLUE 6-MIL POLYWRAP OR DR9 AWWA C901 CTS HDPE, MIN. 6" SAND BEDDING AND 12" SAND COVER. MINIMUM COMPACTION SHALL BE 95%.
2. COPPER SERVICE LINES THAT CROSS STREETS SHALL BE ONE CONTINUOUS PIECE. ANY JOINTS SHALL BE APPROVED BY SRP-MIC.
3. 3/4" WATER METER (SENSUS iPERL), FURNISHED BY SRP-MIC PUBLIC WORKS DEPARTMENT AFTER PAYMENT OF FEES.
4. RHINO WATER METER BOX MB-17 WITH MB-17 AMR LID OR APPROVED EQUAL.
5. DOUBLE-STRAP BRONZE SERVICE SADDLE WITH BRONZE FULL CIRCLE CLAMP. WRAP SADDLE AND CORP STOP WITH 6-MIL POLYWRAP.
6. SERVICE TAPS SHALL BE MADE PRIOR TO ANY TESTING.
7. CONTRACTORS SHALL COORDINATE SHUTDOWN OF EXISTING LINES WITH SRP-MIC PUBLIC WORKS.
8. METER SHALL BE LOCATED WITHIN THE ROAD ROW. IF NOT POSSIBLE THEN METER SHALL BE LOCATED NO FURTHER THAN 2' OUTSIDE ROW.
9. FORD BRASS ANGLE KEY METER VALVE KV43-342-W-G OR APPROVED EQUAL.
10. CASING FOR WATER SERVICE THAT CROSS EXISTING ASPHALT PAVEMENT. CASING WILL BE PVC SCH-40 PIPE, 2X THE WATER SERVICE PIPE DIAMETER AND EXTEND 5' MIN. BEYOND ROADWAY EDGE.
11. MXU AND WIRING TYPICALLY SUPPLIED AND INSTALLED BY SRP-MIC PUBLIC WORKS.

N.T.S.

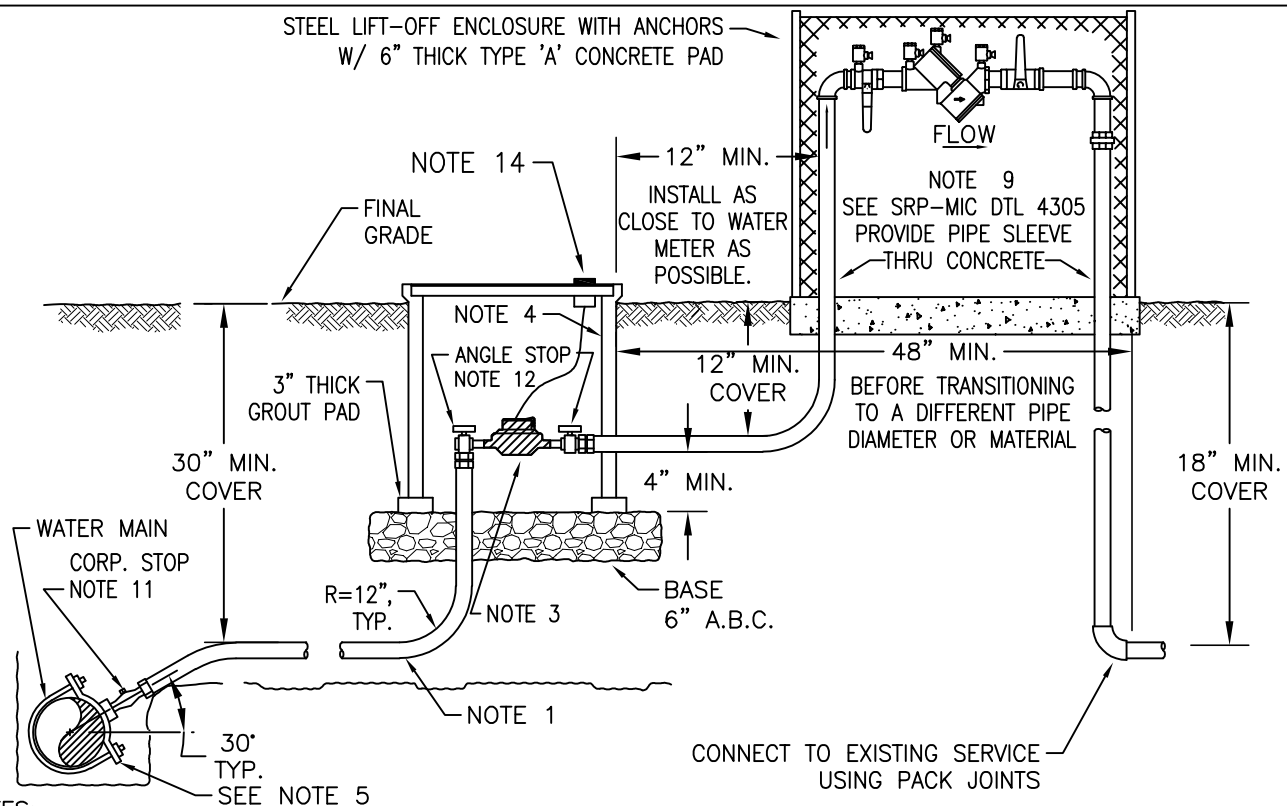
WATER SERVICE CONNECTION RESIDENTIAL WATER ASSEMBLY

REVISED
2019

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4300





NOTES:

1. WATER SERVICE, 1" AND 2" DIA. (EXCEPT AS NOTED) TYPE K SOFT OR HARD COPPER WITH BLUE 6-MIL POLYWRAP (SEE MAG SEC 754). MIN. 6" SAND BEDDING AND 12" SAND COVER. BRAZE HARD COPPER FITTING WITH BRAZING ROD.
2. COPPER SERVICE LINES THAT CROSS STREETS SHALL BE ONE CONTINUOUS PIECE. ANY JOINTS SHALL BE APPROVED BY SRP-MIC PUBLIC WORKS DEPARTMENT.
3. 1" SENSUS IPERL OR 1" OR 2" SENSUS OMNI T2 WATER METER FURNISHED BY SRP-MIC PUBLIC WORKS DEPARTMENT AFTER PAYMENT OF FEES.
4. WATER METER BOX AND LID SHALL BE OLD CASTLE PRECAST B1730 H20 LOADING BOX OR EQUAL (TRAFFIC RATED), OR DFW PLASTICS DFW 1730C-18-1 OR EQUAL (NON-TRAFFIC RATED).
5. DOUBLE-STRAP BRONZE SERVICE SADDLE WITH BRONZE FULL CIRCLE CLAMP. WRAP SADDLE AND CORP STOP WITH 6-MIL POLYWRAP.
6. SERVICE TAPS SHALL BE MADE PRIOR TO ANY TESTING.
7. CONTRACTORS SHALL COORDINATE SHUTDOWN OF EXISTING LINES WITH SRP-MIC PUBLIC WORKS DEPARTMENT.
8. METER SHALL BE LOCATED WITHIN THE ROAD ROW. IF NOT POSSIBLE THEN METER SHALL BE LOCATED NO FURTHER THAN 2' OUTSIDE ROW.
9. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, PER SRP-MIC DETAIL 4304.
10. WATER SERVICE TYPE K HARD COPPER WITH 6-MIL POLY WRAP, MIN. 6" SAND BEDDING AND 12" SAND COVER.
11. FORD CORP STOP FB1100 OR APPROVED EQUAL.
12. FORD ANGLE KEY METER VALVE KV43 FOR 1" METER AND FORD ANGLE KEY FLANGE METER VALVE FV43 FOR 2" METER OR APPROVED EQUAL.
13. FORD ANGLE METER COUPLING L34 FOR 1" METER AND FLANGE METER ELBOW LF34 FOR 2" METER OR APPROVED EQUAL.
14. DRILL ONE 2" DIA. HOLE IN METER LID FOR MXU AND WIRING. LOCATION OF HOLE TO BE COORDINATED WITH PW WATER RESOURCES. MXU AND WIRING TYPICALLY SUPPLIED AND INSTALLED BY SRP-MIC PUBLIC WORKS. N.T.S.

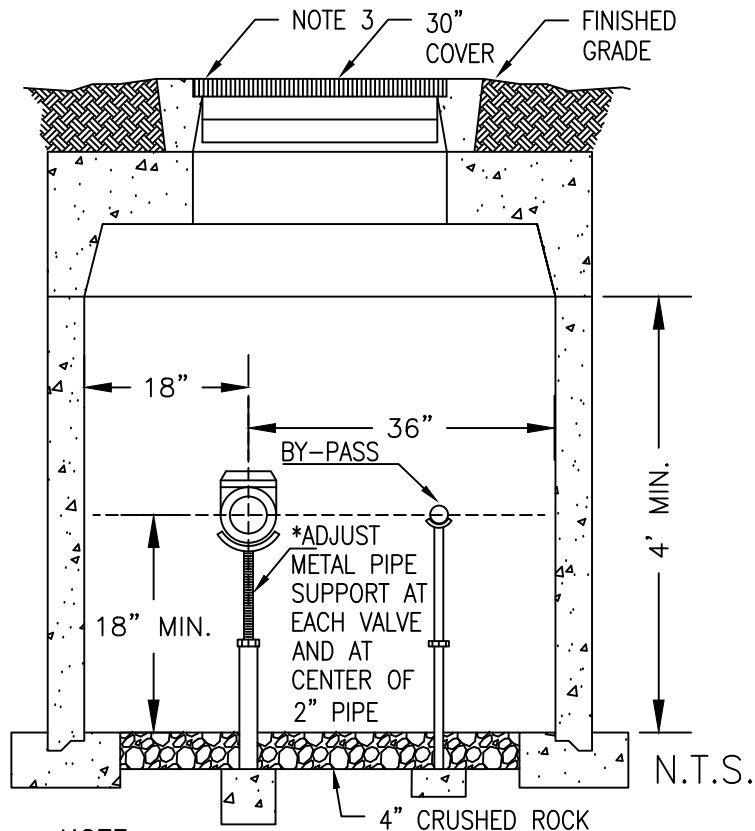
NONRESIDENTIAL WATER SERVICE CONNECTION 1" AND 2" WATER METER ASSEMBLY

REVISED
2019

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4301

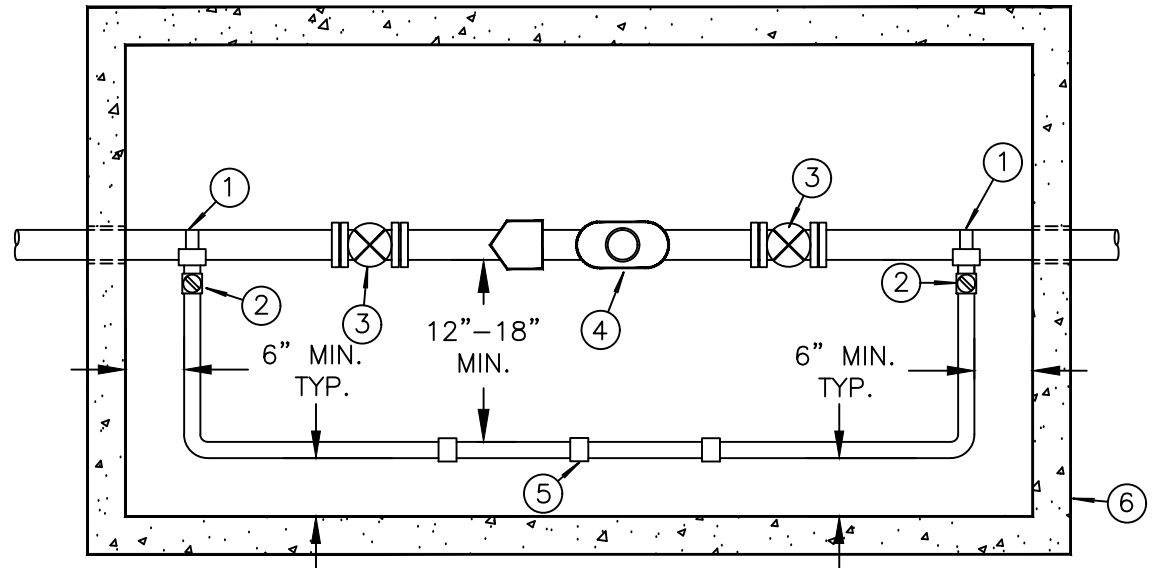




NOTE:

1. METER SHALL BE CENTERED LONGITUDINALLY UNDER VAULT ACCESS.
2. THE PIPE SLOT AT BOTH ENDS OF THE VAULT SHALL BE SEALED, BLOCKING THE SLOT W/ SUITABLE MATERIAL AND THEN WRAPPING THE PIPE W/ 10 MIL POLYWRAP/TAPE AND FINISHING W/ NON-SHRINK MORTAR PRIOR TO BACKFILLING AND COMPACTING.
3. DRILL ONE 2" HOLE IN METER LID FOR SENSUS 520R METER TRANSMITTER (TRANSMITTER TO BE INSTALLED BY SRP-MIC PUBLIC WORKS).

N.T.S.



LEGEND

- ① DOUBLE STRAP ALL BRONZE SERVICE SADDLE
- ② CORP STOP, 2" (BALL TYPE)
- ③ GATE VALVE, FLANGED WITH HAND WHEEL, OPEN LEFT.
- ④ SENSUS OMNI T2 METER W/ STRAINER.
- ⑤ PIPE SUPPORT AT CENTER OF PIPE.
- ⑥ METER VAULT PER MAG STANDARD DTL 345-1. VAULT CONSTRUCTION SHALL BE PER MAG 321.

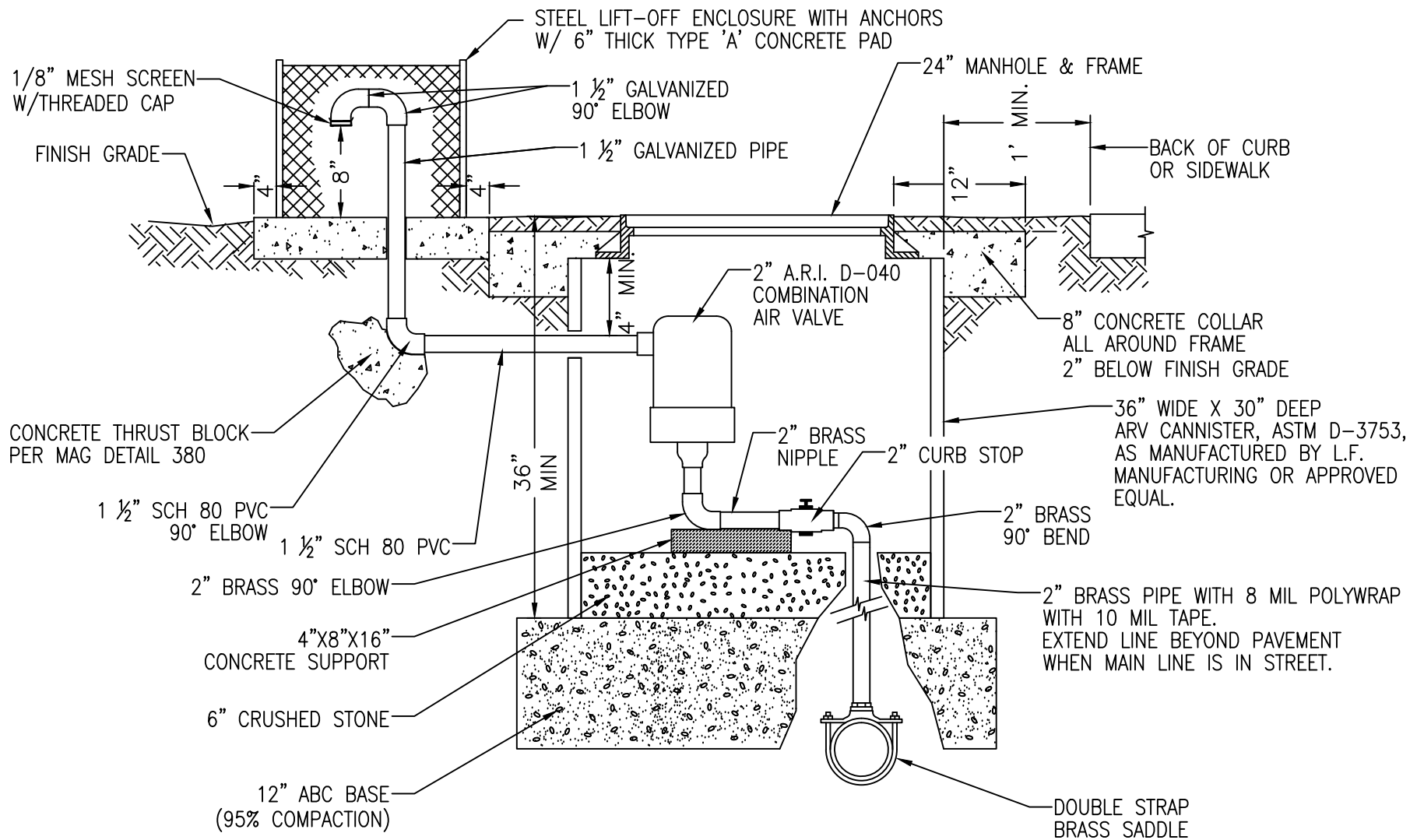
3", 4", AND 6" WATER METER

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4302





N.T.S.

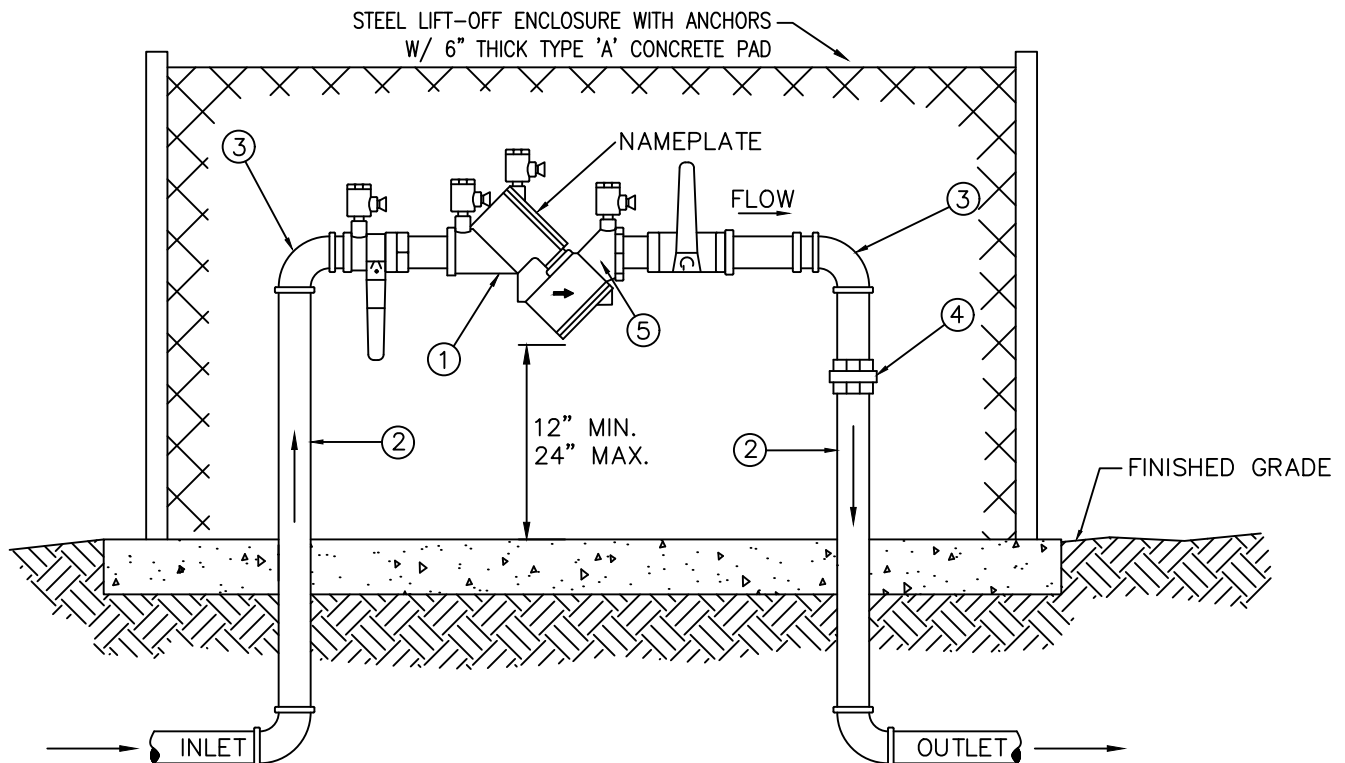
2" AIR/VACUUM RELEASE VALVE

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4303





INLET AS CLOSE TO SERVICE CONNECTION AS POSSIBLE (IMMEDIATELY AFTER WATER METER). HARD COPPER ON INLET SIDE.

LIST OF MATERIALS

- ① WATTS, WILKINS OR SRPMIC APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY, BALL VALVES INCLUDED.
- ② PIPE SPOOL, TYPE "K" HARD COPPER, $\frac{3}{4}$ " THRU $2\frac{1}{2}$ ".
- ③ 90° EL, COPPER $\frac{3}{4}$ " THRU $2\frac{1}{2}$ ".
- ④ PIPE UNION, BRASS OR COPPER.
- ⑤ TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH CAPS INSTALL. (4 REQUIRED).

GENERAL NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE SALT RIVER PIMA MARICOPA INDIAN COMMUNITY.
2. COPPER FITTING SHALL BE CONNECTED WITH LEAD FREE SOLDER JOINTS.
3. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
4. ALL NIPPLES TO BE COPPER OR BRASS.
5. INLET/OUTLET PIPING MUST BE TYPE "K" HARD COPPER. BRAZE HARD COPPER FITTINGS WITH BRAZING ROD.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
7. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.
8. BACKFLOW SHALL BE INSTALLED WITH CONCRETE EQUIPMENT PAD AND LIFT OFF ENCLOSURE. ENCLOSURE SHALL BE PAINTED TAN.
9. COPPER PIPE SHALL BE SLEEVED WHERE IT PENETRATES THE CONCRETE.
10. PROVIDE 12" MINIMUM CLEARANCE BETWEEN BACKFLOW PREVENTION ASSEMBLY AND PERMANENT STRUCTURES OR LANDSCAPE VEGETATION.
11. BACKFLOW PREVENTER COPPER PIPE AND ENCLOSURE SHALL BE PAINTED TO MATCH THE COLOR OF THE CLOSEST BLOCK WALL OR BUILDING.

N.T.S.

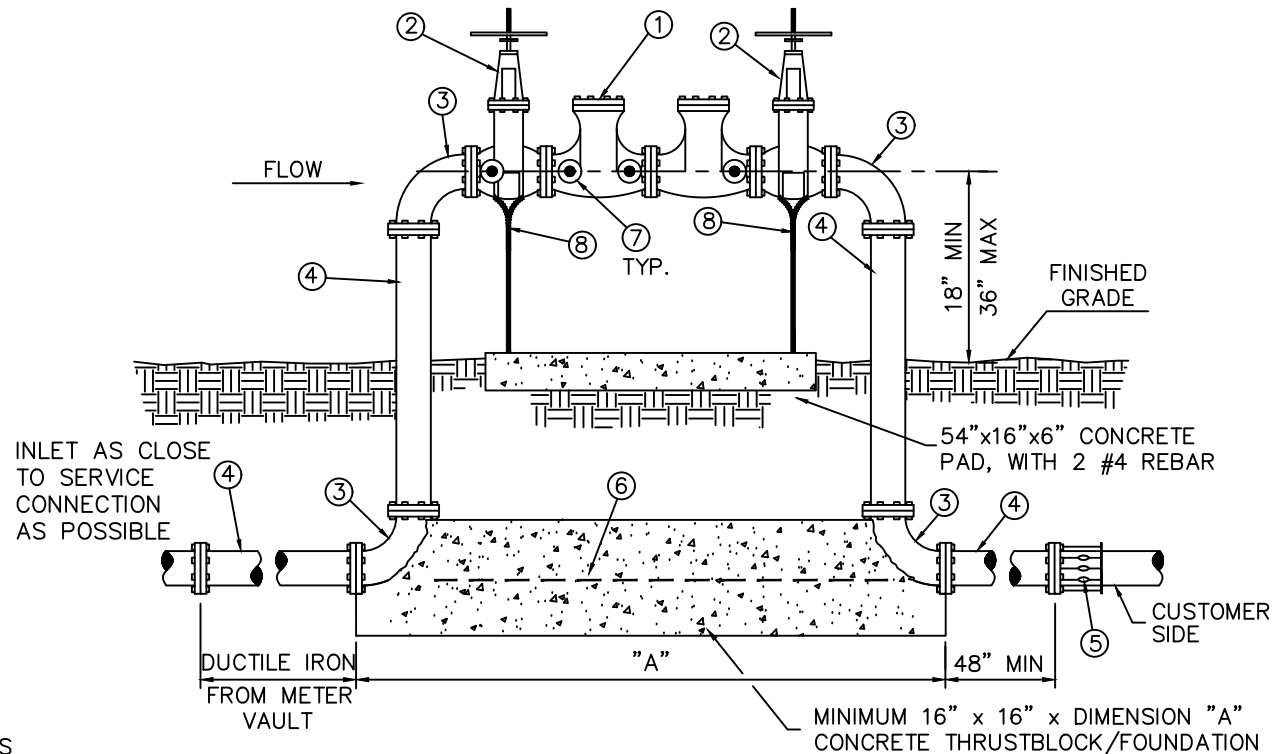
BACKFLOW PREVENTION ASSEMBLY FOR $\frac{3}{4}$ " AND $2\frac{1}{2}$ " ASSEMBLIES

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4304





LIST OF MATERIALS

- ① WATTS OR APPROVED EQUAL DOUBLE CHECKED VALVE BACKFLOW PREVENTION ASSEMBLY.
- ② RESILIENT SEATED GATE VALVE. O.S. & Y (FIRE LINE CONNECTION) N.R.S. (NON FIRE LINE).
- ③ 90° ELBOW, FLANGED D.I.P. 3" THRU 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
- ④ PIPE SPOOL, FLANGED D.I.P., MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
- ⑤ FLANGED ADAPTOR (WHEN REQUIRED).
- ⑥ 2-#4 REBAR (CONT.)
- ⑦ TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH CAPS INSTALLED. (4 REQUIRED).
- ⑧ ADJUSTABLE METAL PIPE SUPPORTS AND CONCRETE BLOCK SUPPORTS WITH 1" ADJUSTING ROD AND NUT ON ASSEMBLIES 4" AND LARGER. INSTALLED ABOVE GRADE.

GENERAL NOTES

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY.
2. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
3. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILL TRENCH.
4. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL OF APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

N.T.S.

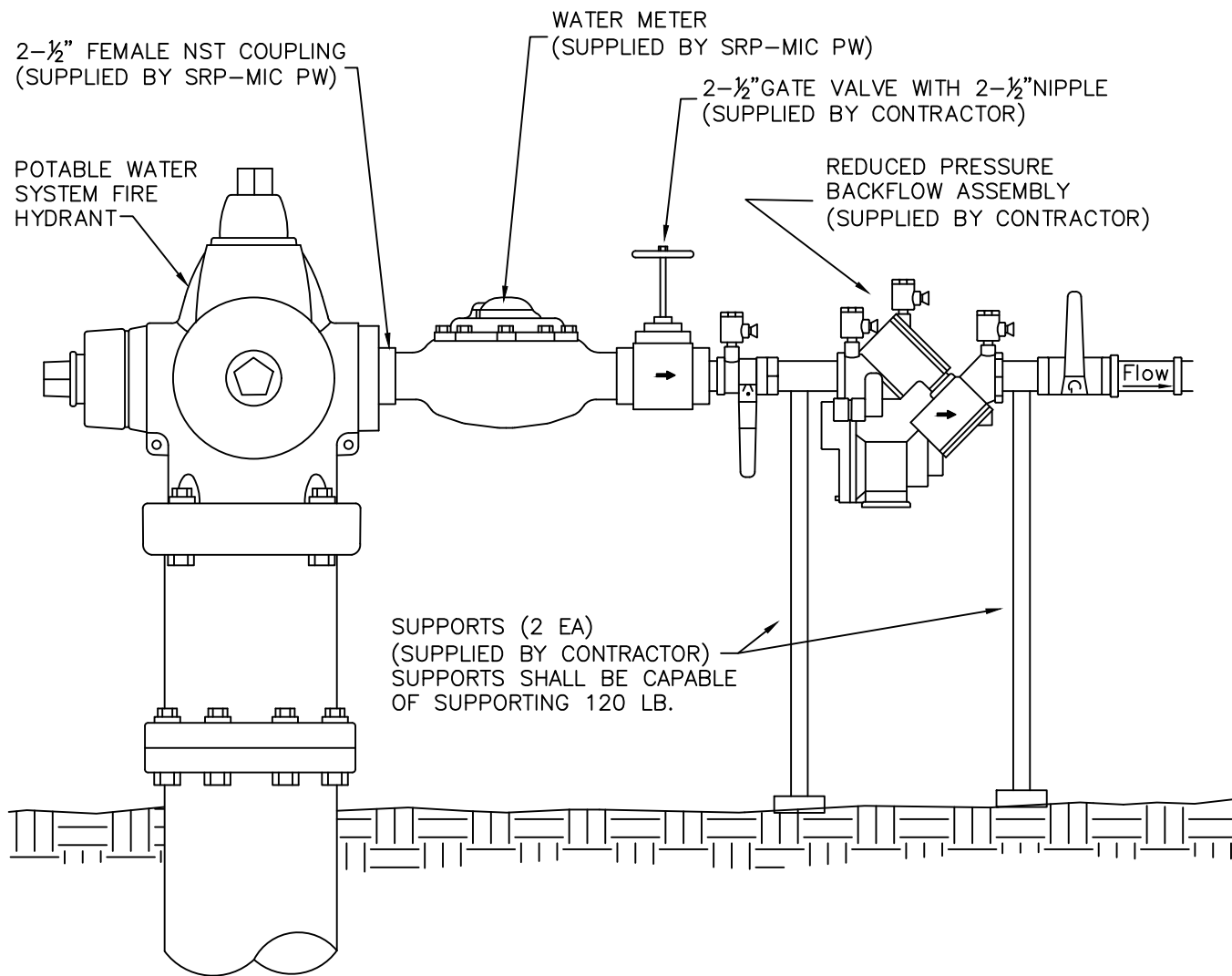
DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3" TO 10"

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4305





GENERAL NOTES

1. GATE VALVE, BACKFLOW ASSEMBLY, AND CERTIFICATION SHALL BE INSTALLED/PROVIDED WITHIN 24 HOURS AFTER HYDRANT METER IS INSTALLED. BACKFLOW ASSEMBLY SHALL BE TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER BEFORE USING AND ALSO EACH TIME THE METER IS MOVED.
2. USER MUST REMOVE GATE VALVE AND BACKFLOW ASSEMBLY WHEN HYDRANT METER IS REMOVED OR RELOCATED.
3. USER IS LIABLE FOR ANY DAMAGE TO THE HYDRANT AND ALL ATTACHMENTS TO THE HYDRANT.
4. USER MUST USE GATE VALVE TO CONTROL FLOW OF WATER, NOT THE HYDRANT VALVE ASSEMBLY.
5. HYDRANT METER REQUEST AND APPLICABLE FEES SHALL BE MADE IN PERSON AT FINANCE DEPT. CASHIERS WINDOW, 1ST FLOOR, TWO WATERS COMPLEX, BLDG A, 10,005 E. OSBORN RD. SCOTTSDALE, AZ 85256.
6. HYDRANT METER LOCATION SHALL BE PRE-APPROVED BY PUBLIC WORKS PRIOR TO APPLICATION FOR HYDRANT METER REQUEST. CALL PUBLIC WORKS AT (480) 362-5600 FOR QUESTIONS.

N.T.S.

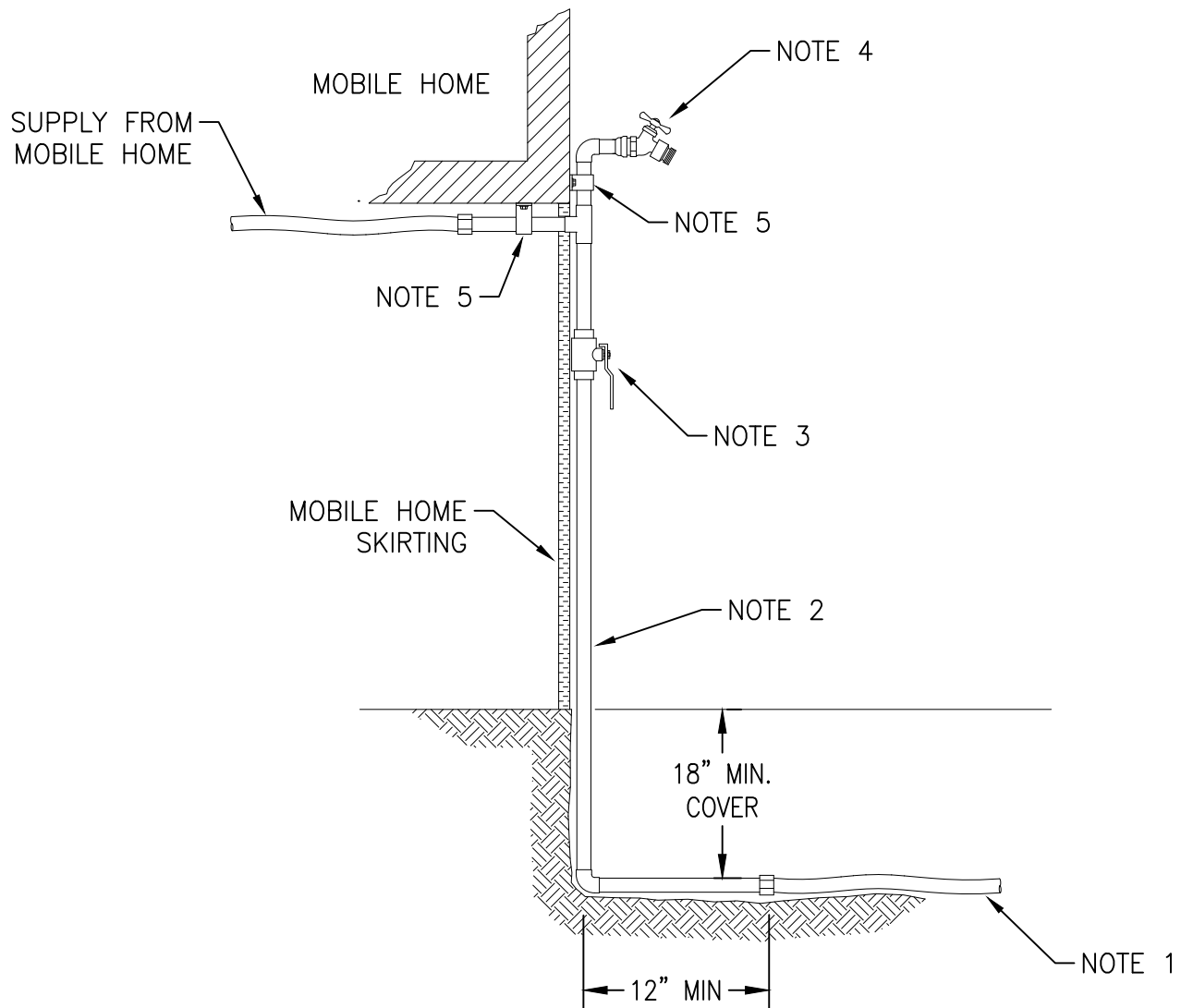
FIRE HYDRANT METER ASSEMBLY

REVISED
2019

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4306





NOTES:

1. WATER SERVICE, 1" DIA. (EXCEPT AS NOTED) TYPE K SOFT COPPER WITH BLUE 6-MIL POLYWRAP OR DR9 AWWA C901 CTS HDPE, MIN. 6" SAND BEDDING AND 12" SAND COVER. SERVICE LINE PER SRP-MIC STANDARD DETAIL 4300.
2. 3/4" MINIMUM COPPER WATER SERVICE LINE ASSEMBLY, NSF61 COMPLIANT WITH I.R.C.
3. FULL WAY VALVE (GATE OR BALL) FOR BUILDING SHUTOFF.
4. LEAD FREE HOSE BIB WITH VACUUM BREAKER.
5. SECURE ASSEMBLY TO MOBILE HOME EXTERIOR.

N.T.S.

MOBILE HOME WATER SERVICE CONNECTION
RESIDENTIAL WATER ASSEMBLY (NO FIRE SPRINKLER)

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

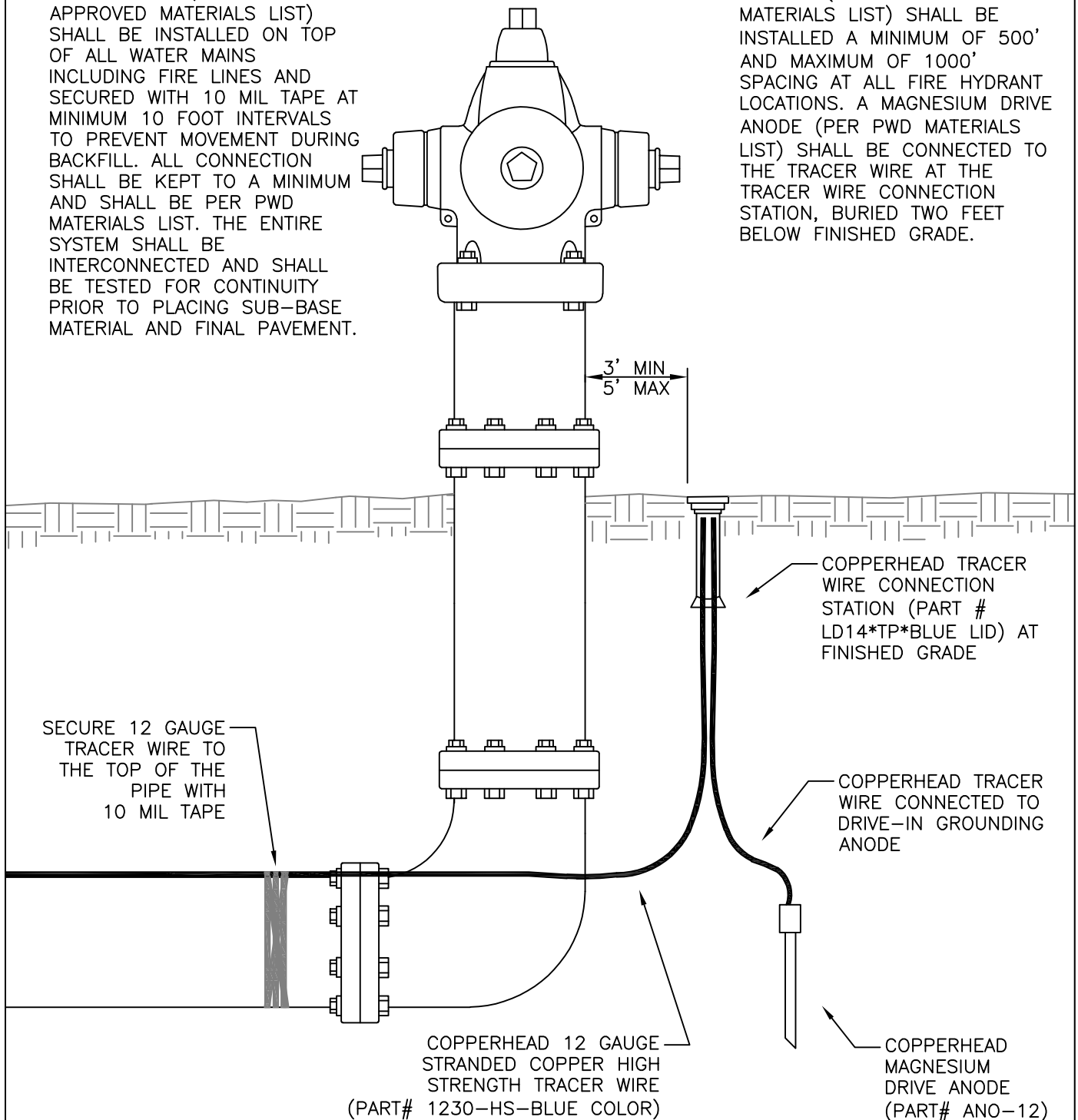
DETAIL NO.
4307



GENERAL NOTES:

COPPER HEAD HIGH STRENGTH TRACER WIRE (PER PWD APPROVED MATERIALS LIST) SHALL BE INSTALLED ON TOP OF ALL WATER MAINS INCLUDING FIRE LINES AND SECURED WITH 10 MIL TAPE AT MINIMUM 10 FOOT INTERVALS TO PREVENT MOVEMENT DURING BACKFILL. ALL CONNECTION SHALL BE KEPT TO A MINIMUM AND SHALL BE PER PWD MATERIALS LIST. THE ENTIRE SYSTEM SHALL BE INTERCONNECTED AND SHALL BE TESTED FOR CONTINUITY PRIOR TO PLACING SUB-BASE MATERIAL AND FINAL PAVEMENT.

TRACER WIRE CONNECTION STATION (PER PWD APPROVED MATERIALS LIST) SHALL BE INSTALLED A MINIMUM OF 500' AND MAXIMUM OF 1000' SPACING AT ALL FIRE HYDRANT LOCATIONS. A MAGNESIUM DRIVE ANODE (PER PWD MATERIALS LIST) SHALL BE CONNECTED TO THE TRACER WIRE AT THE TRACER WIRE CONNECTION STATION, BURIED TWO FEET BELOW FINISHED GRADE.



N.T.S.

TRACER WIRE AND CONNECTION STATION

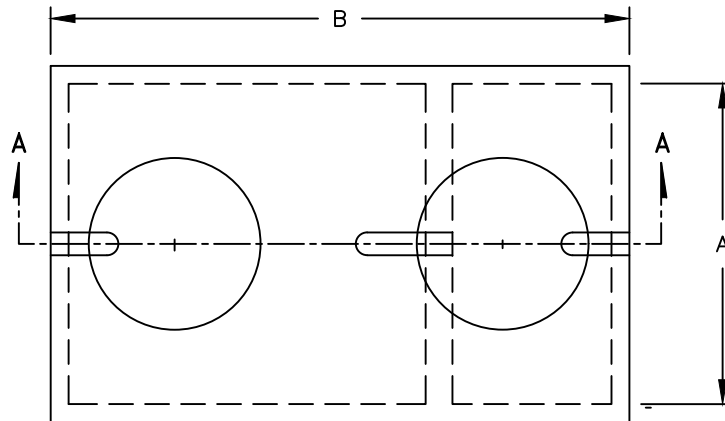
REVISED
2019

STANDARD DETAIL
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

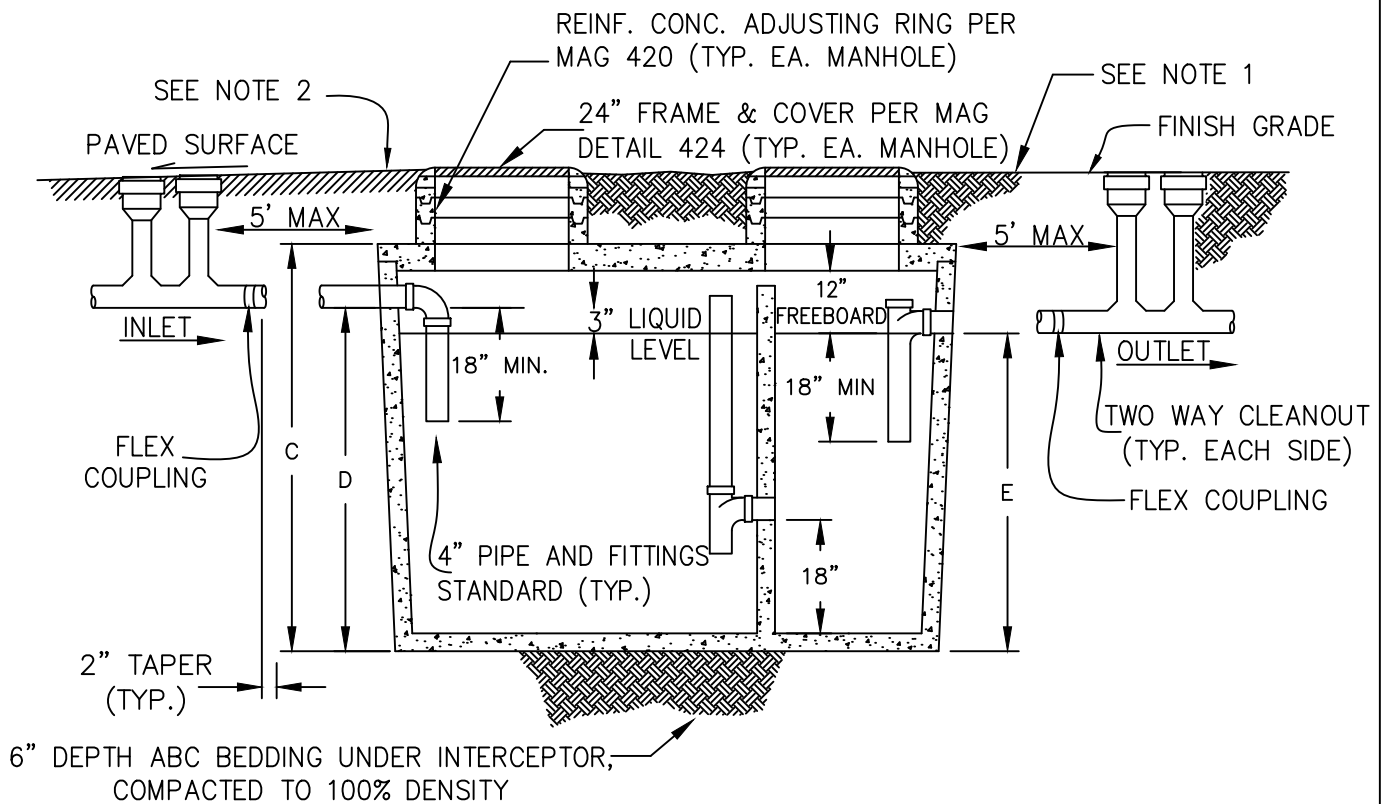
DETAIL NO.
4308



PLAN VIEW
(COVERS AND RINGS NOT SHOWN)



SECTION A-A



TANK SIZE	A	B	C	D	E
500	4'-0"	6'-0"	5'-10"	4'-10"	4'-7"

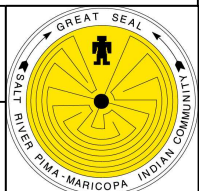
N.T.S.

500 GALLON GRAVITY GREASE INTERCEPTOR

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4400-1



NOTES

1. NOT APPROVED FOR USE INSIDE AN ENCLOSED BUILDING.
2. DIMENSIONS SHOWN ARE THE MINIMUM ALLOWABLE FOR THIS TYPE OF INTERCEPTOR.
3. CONSTRUCTED OF IMPERVIOUS MATERIAL BEING WATERTIGHT AND CAPABLE OF WITHSTANDING ABRUPT AND EXTREME WEATHER CHANGES.
4. PRE-CAST TO BE REINFORCED WITH 3000 PSI CONCRETE AS REQUIRED TO MEET STRUCTURAL REQUIREMENTS.
5. EXCAVATION MUST ALLOW FOR A MINIMUM OF 12" CLEARANCE AROUND TANK. EXCAVATION AND BACKFILL SHALL BE PER MAG SECTION 206 OR HALF SACK SLURRY FILL.
6. ELEVATE SIDEWALLS ABOVE SURROUNDING GROUND SURFACE, AS SHOWN IN DETAIL TO EXCLUDE SURFACE WATERS.
7. IF INSTALLED IN A PAVED AREA, SLOPE SURFACE TO PROTECT AGAINST THE ENTRANCE OF SURFACE WATER RUN-OFF. COVERS SHALL BE WATERTIGHT AND TRAFFIC RATED WHEN REQUIRED.
8. GRADE RING/RISER EXTENSION MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT. RISER EXTENSIONS SHALL BE CONSTRUCTED OF BRICK, PRE-CAST, OR CAST IN PLACE.
9. EQUIPPED WITH EASILY REMOVABLE COVERS. WHEN BOLTED COVERS ARE REQUIRED THEY SHALL BE GAS AND WATER TIGHT.
10. A TWO-WAY CLEANOUT SHALL BE INSTALLED WITHIN 5 FEET OF THE INTERCEPTOR INLET AND OUTLET.
11. INLET AND OUTLET TO BE WATER TIGHT, MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT.
12. INLET – 90° ELBOW. FLEX COUPLING BETWEEN TWO-WAY CLEANOUT AND INLET. INLET MUST BE 2" HIGHER THAN OUTLET.

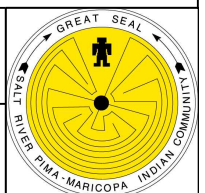
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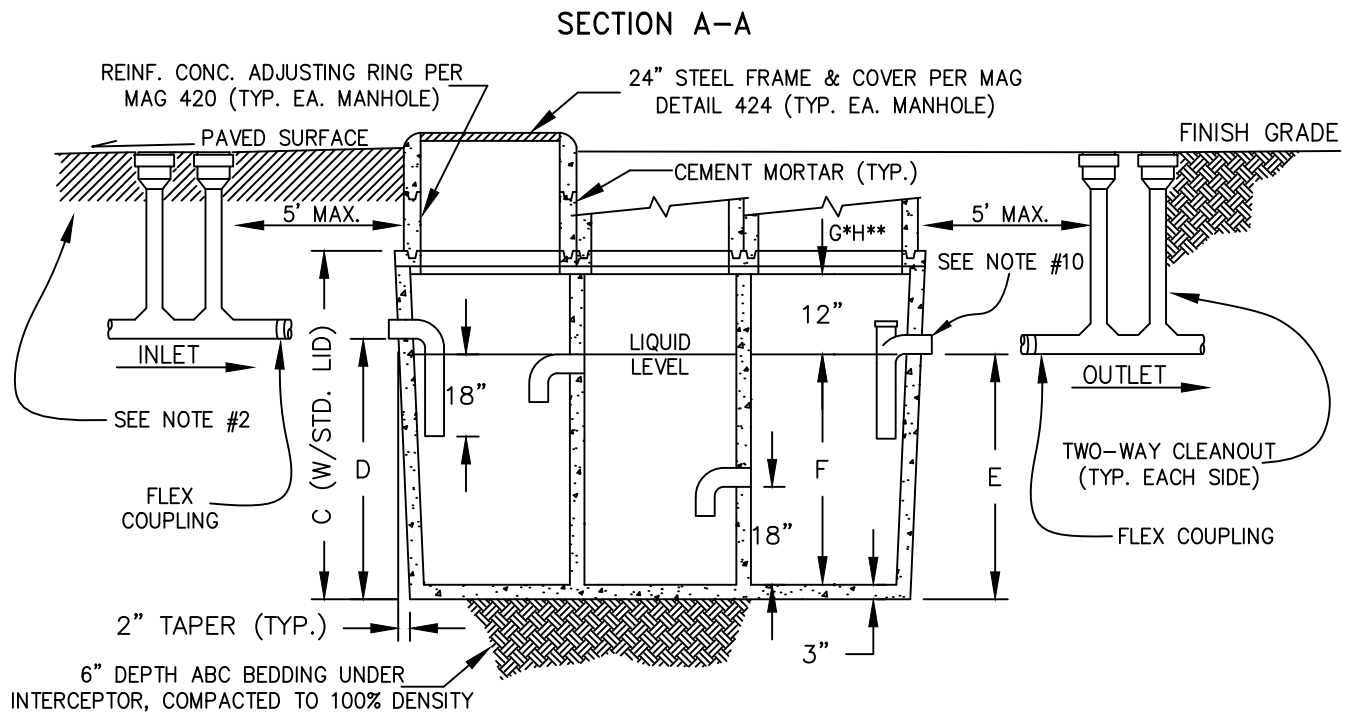
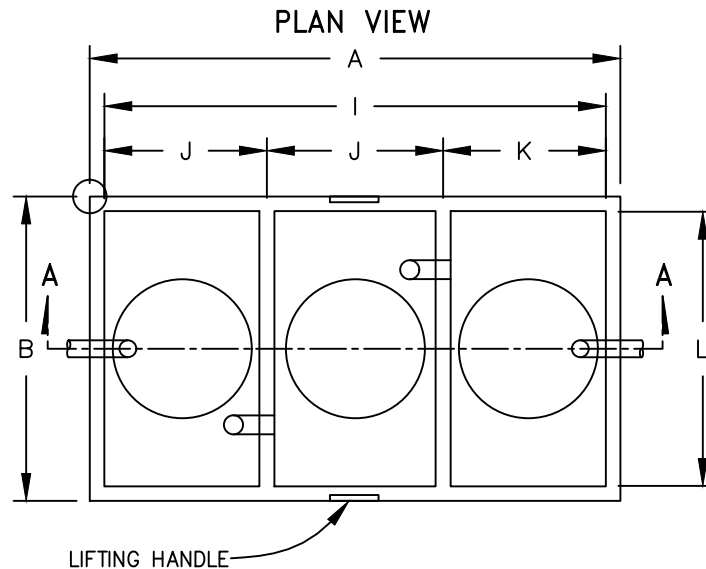
500 GALLON GRAVITY GREASE INTERCEPTOR

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4400-2





TANK SIZE	A	B	C	D	E	F	G	H	I	J	K	L
750	102"	50"	69"	54"	51"	48"	6"	6"	96"	31"	31"	44"
1050	125"	61"	64"	48"	46"	43"	6"	8"	119"	40"	39"	55"
1250	125"	61"	72"	56"	54"	51"	6"	8"	119"	40"	39"	55"
1500	125"	61"	82"	66"	64"	61"	6"	8"	119"	40"	39"	55"
2000	156"	81"	71"	53"	51"	48"	8"	10"	150"	51"	48"	75"
2500	156"	81"	80"	62"	60"	57"	8"	10"	150"	51"	48"	75"

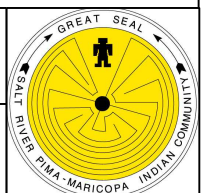
N.T.S.

750 – 2500 GALLON GRAVITY GREASE INTERCEPTOR

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4401-1



NOTES

1. NOT APPROVED FOR USE INSIDE AN ENCLOSED BUILDING.
2. DIMENSIONS SHOWN ARE THE MINIMUM ALLOWABLE FOR THIS TYPE OF INTERCEPTOR.
3. CONSTRUCTED OF IMPERVIOUS MATERIAL BEING WATERTIGHT AND CAPABLE OF WITHSTANDING ABRUPT AND EXTREME WEATHER CHANGES.
4. PRE-CAST TO BE REINFORCED WITH 3000 PSI CONCRETE AS REQUIRED TO MEET STRUCTURAL REQUIREMENTS.
5. EXCAVATION MUST ALLOW FOR A MINIMUM OF 12" CLEARANCE AROUND TANK. EXCAVATION AND BACKFILL SHALL BE PER MAG SECTION 206 OR HALF SACK SLURRY FILL.
6. ELEVATE SIDEWALLS ABOVE SURROUNDING GROUND SURFACE, AS SHOWN IN DETAIL TO EXCLUDE SURFACE WATERS.
7. IF INSTALLED IN A PAVED AREA, SLOPE SURFACE TO PROTECT AGAINST THE ENTRANCE OF SURFACE WATER RUN-OFF. COVERS SHALL BE WATERTIGHT AND TRAFFIC RATED WHEN REQUIRED.
8. GRADE RING/RISER EXTENSION MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT. RISER EXTENSIONS SHALL BE CONSTRUCTED OF BRICK, PRE-CAST, OR CAST IN PLACE.
9. EQUIPPED WITH EASILY REMOVABLE COVERS. WHEN BOLTED COVERS ARE REQUIRED THEY SHALL BE GAS AND WATER TIGHT.
10. A TWO-WAY CLEANOUT SHALL BE INSTALLED WITHIN 5 FEET OF THE INTERCEPTOR INLET AND OUTLET.
11. INLET AND OUTLET TO BE WATER TIGHT, MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT.
12. INLET – 90° ELBOW. FLEX COUPLING BETWEEN TWO-WAY CLEANOUT AND INLET. INLET MUST BE 2" HIGHER THAN OUTLET.

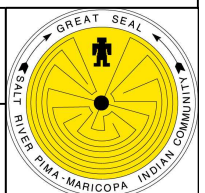
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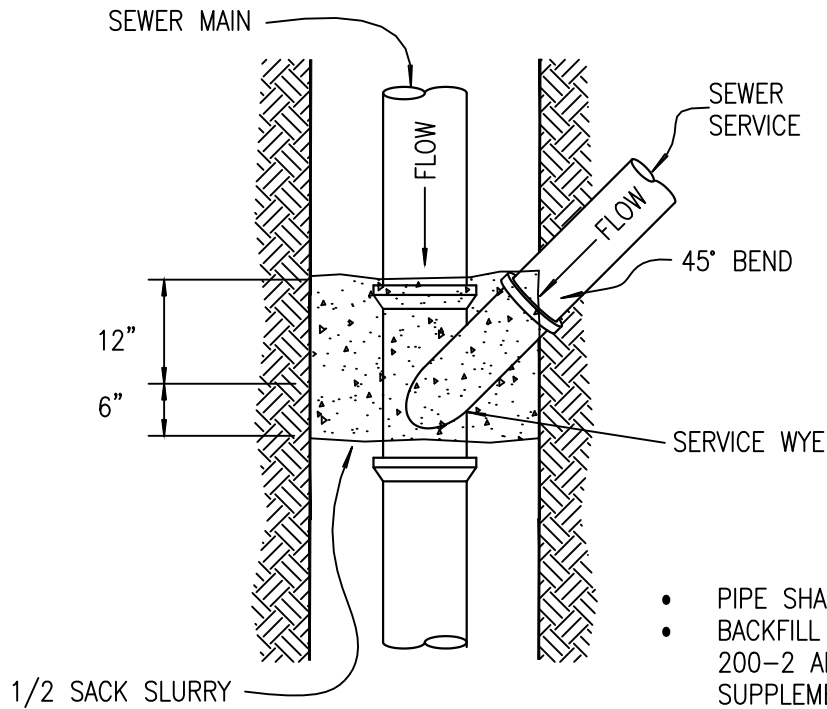
750 – 2500 GALLON GRAVITY GREASE INTERCEPTOR

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2018

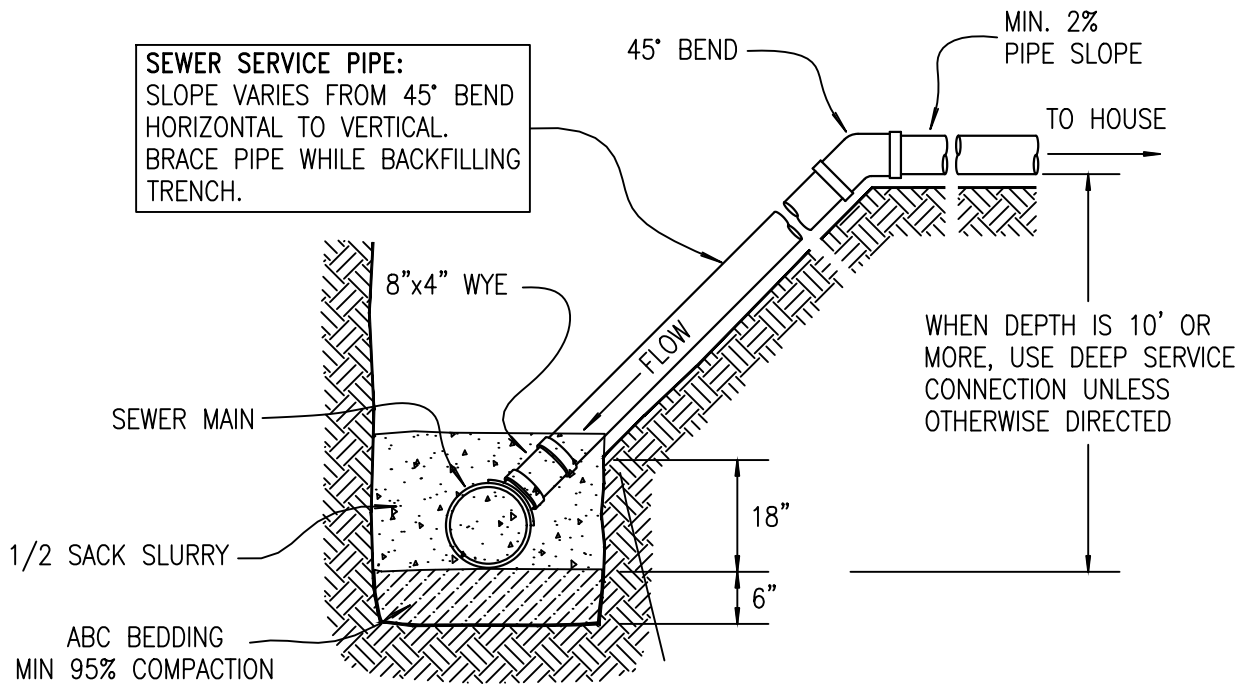
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4401-2





- PIPE SHALL BE PVC SDR 26
- BACKFILL PER MAG DETAIL 200-1 & 200-2 AND PER SRP-MIC SUPPLEMENTS TO MAG SPECIFICATIONS TABLE 601-2.



N.T.S.

DEEP SEWER SERVICE

REVISED
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.
4402



TWO-WAY CLEANOUT DETAIL A
N.T.S.

4" PERFORATED PIPE SECTION B
N.T.S.

NOTE:
1. 4" PERFORATED PIPE SHALL BE INSTALLED AT 1-2% SLOPE.

DRYWELL - TOP VIEW C
N.T.S.

PRECAST CONCRETE SEPTIC TANK AND DRY WELL - SECTION DETAIL D

PLAN VIEW: SEPTIC SYSTEM
N.T.S.

MINIMUM & RECOMMENDED SEPTIC TANK CAPACITY PER NO. OF BEDROOMS			
NO. OF BEDROOMS	NO. OF PEOPLE LIVING IN HOME	DAILY WASTEWATER FLOW (GALS PER DAY)	MINIMUM CAPACITY REQUIRED (GALS)
2 OR LESS	4	300	750
3	6	450	1125
4	8	600	1500
5	10	750	1875
6	12	900	2250

SEPTIC TANK DIMENSIONS					
MODEL	SIZE (GALS)	WIDTH	LENGTH	DEPTH	INLET
ST1050	1050	4'-11 $\frac{1}{2}$ "	10'-3 $\frac{1}{2}$ "	5'-4"	4'-10"
ST1250	1250	5'-0"	10'-4 $\frac{1}{2}$ "	6'-0"	4'-8"
ST1500	1500	5'-1"	10'-5"	6'-10"	5'-6"
ST2000	2000	6'-9"	13'-0"	6'-0"	4'-5"

N.T.S.

RESIDENTIAL SEPTIC TANK & DRYWELL

REVISÉ
2018

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAIL

DETAIL NO.	4403-2
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Permit Submittal Process for Civil Engineering Projects:

Shall be used in conjunction with CIP and Private Development improvement plans within the SRP-MIC jurisdiction.

1. An approval letter from the Design Review Committee (DRC) is required for all civil improvements prior to plan submittal.
DRC and/or Planning review/approval for civil improvements may be needed if:
 - (A) A site plan, landscape plan, or grading and drainage plan will be changed.
 - (B) Landscaping removed, added.
 - (C) If part of a commercial development project.
 - (D) If specialty improvements (such as paving, signage or lighting is required as part of special district or development.
2. Submit Permit Application(s) (A separate application must be submitted for on and off site civil projects).
3. Six copies of the project plans and specifications are required. Plans shall be 24"X36", no exceptions.
4. Two sets of Drainage Reports, Water and Wastewater Basis of Design Report, and Traffic Studies are required.
5. Scans of the plans and specs (.pdf) are required for each submittal on CD. A georeferenced AutoCAD (.dwg) is required for the first submittal.
6. A completed Special Inspection Form may be required.
7. One copy of the Environmental Clearance Letter Issued by Environmental Protection and Natural Resources is required. Call (480) 362-7500 for information.
8. Review Duration – Four to Six weeks, unless agreed upon with the Building Official.
9. For Expedited Reviews, the box located at the top portion of the Permit Application must be marked and signed. Expedited reviews generally take half the time of a normal review. Plan Review fees are double for an expedited review. Two additional sets of plans are required for an expedited review, total. Call to confirm expedited review is available.
10. Four copies of any deferred submittals must be submitted along with a copy of the approved plans. Scans of the plans and specs (.pdf) are required for each submittal on CD.
11. All fees are based off the most current "Building Valuation Data" from the Building Safety Journal. A 1% Cultural Resource Fee will be added to all fees.
12. Plan reviews and Inspections are performed using the 2015 I-Codes, (Building, Mechanical, Plumbing and Fire), the 2002 NEC, and the latest revision of MAG Uniform Standard Specifications as amended by SRP-MIC.
13. All submittals are processed through Engineering and Construction Services-Compliance. Compliance in turn distributes the reviews to various departments. (i.e. Health, CDD, Public Works and Fire Department for review and comment). All departments must approve the submittal before the project will be permitted.
14. Once approved, The Permit will be issued to the Contractor (it is the responsibility of the Contractor/Tenant to schedule the required inspections).
15. All inspections conducted by Compliance, Fire Department, Health Services and CDD if applicable, must pass in order to obtain the "Certificate of Occupancy" and allow the Tenant to open for Business.
16. Once inspections are approved, the applicant must submit one electronic copy of the As Built plans and specs (.pdf) and one electronic copy of the As Built AutoCAD file (.dwg) on CD in order to pick up the "Certificate of Occupancy". No exceptions.

Notes:

- Additional items may be required as requested by the Building Official.
- All contractors and sub-contractors are required to obtain a Community Business License. Please call (480) 362-7649 for information.

SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY
CONSTRUCTION PLAN REQUIREMENTS



General Notes for Civil Engineering Plans:

The following notes are to appear on applicable plans submitted to ECS Compliance:

1. All construction within roadway Right-of-Way shall conform to the latest MAG Uniform Standard Specifications and Details and the SRP-MIC Supplement to MAG Uniform Standard Specifications and Details and SRP-MIC Construction Details.
2. The Contractor shall maintain a copy of the current approved construction plans, specifications, project documents, SRP-MIC Supplement to MAG Uniform Standard Specifications and Details for Public Works Construction and construction permit on-site at all times.
3. The Contractor shall contact SRP-MIC Cultural/EPNR prior to any ground disturbance (480) 362-7500.
4. All construction water from Community fire hydrants/lines/system shall be metered, including waste, testing water, flushing water and water used for compaction and dust control. Systems shall be protected with proper, Community approved backflow prevention systems per SRP-MIC Detail 4306. Contact SRP-MIC Finance Department to set up water billing account (480-362-7720).
5. The Contractor shall schedule inspection with the SRP-MIC Engineering and Construction Services (ECS) Compliance Division 24 hours in advance for all onsite and offsite construction (480) 362-7910.
6. The Contractor shall schedule inspections with the Community Inspector and Salt River Fire Department for all fire hydrants, fire lines and FDCs prior to placing pipe shading (480) 362-7290.
7. Contractor shall schedule a pre-construction meeting a minimum of five (5) days prior to commencing all major phases of work. Include: SRP-MIC Compliance Division and Public Works Department, all affected Government agencies and utility companies and contractors (A pre-construction meeting cannot be scheduled until the required SRP-MIC permits are obtained).
8. During preconstruction coordination meetings, the Contractor shall establish a communication protocol and appropriate accommodations for locating and documenting infrastructure and utilities that are uncovered or found in a condition other than that indicated on the plans or that deviate materially from the location(s) shown on the plans. The primary point of contact for the Community on utility conflicts or deviations shall be the Community Inspector.
9. Upon encountering such condition, the Contractor shall contact the Community Inspector as soon as feasible to give the Community the opportunity to inspect, evaluate, measure and record the encountered utility condition. At a minimum, the Contractor shall take appropriate measures to locate and record such infrastructure and utilities using relative measurement techniques and shall record those locations on the as-built plans that are kept on-site. Any photos, sketches, reports or other documentation prepared as a result of the condition shall be transmitted to the Community Inspector.
10. Any work performed without the knowledge and approval of the Community is subject to removal and replacement at the contractor's expense.
11. In addition to contacting Arizona 811 or (602-659-7500), the Contractor shall contact SRP-MIC Public Works Department five (5) working days prior to any construction for blue stake of all water, wastewater, and irrigation utilities (480-362-5600) or e-mail to (pwcustomerservice@srpmic-nsn.gov).
12. Contractor shall submit traffic control plans to ECS Compliance for review, three (3) days prior to any construction affecting public traffic. Traffic Control Plans shall meet the requirements of the MUTCD, latest edition.
13. Truck and haul routes shall comply with Council approved truck route. A copy of approved haul routes may be obtained from ECS Compliance Division. The Contractor shall obtain haul permits as required by ECS Compliance Division.
14. The Contractor shall prevent any dust nuisance due to construction operations in accordance with MAG Section 104 Scope of Work-Cleanup and Dust Control.



15. When engaged in a fugitive dust generating operation, the Contractor shall install, maintain, and use dust control measures, if applicable. The Contractor shall implement control measures before, after, and while conducting fugitive dust operations, including weekends, after work hours, and on holidays. If requested, the Contractor shall submit a Dust Control Plan to the Project Manager prior to beginning operations. Contractor shall not begin operations until Dust Control Plan has been approved by the Environmental Protection and National Resources (EPNR).
16. Contractor shall contact EPNR at (480) 362-7639 and comply with all dust control requirements
17. Tracking dirt onto streets is not allowed and if it occurs it must be cleaned immediately. Gravel track-out pads or other approved method, shall be used where applicable.
18. Contractors shall provide adequate means for cleaning trucks and/or other equipment of mud prior to entering public streets, and take whatever measures are necessary to ensure that all roads are maintained in a clean, mud and dust free condition at all times.
19. No separate measurement or payment will be made for dust prevention measures and the cost will be considered incidental to the contract.
20. All materials incorporated in the work shall be sampled and tested by an independent laboratory as approved by SRP-MIC.
21. The laboratory responsible for the testing shall furnish copies of the test results to the Project Manager, ECS Compliance Division, Contractor and to the appropriated material supplier.
22. The Contractor will cooperate with the testing firm assigned by SRP-MIC. A minimum 24 hours' notice is required to schedule testing.
23. SRP-MIC reserves the right to request additional tests. Where nuclear density tests are used, one sand cone test shall be conducted at the beginning of testing and for every ten tests thereafter.
24. Prior to the issuance of a final C of O or C of C by the ECS Compliance Division, Contractor shall provide "As-Built" construction plan sheets bearing the certification and seal of an Arizona Registered Land Surveyor or Professional Engineer. "As-Built" documents shall be clearly marked with the words "As-Built" on each page. "As-Built" documents shall adequately describe the location and elevation of infrastructure and horizontal site improvements with reference to a verified local benchmark. Additionally, all material deviations from the final approved plans shall be referenced and annotated within revision clouds. "As-Built" revisions and annotations shall be affixed upon the final and approved permitted plans bearing the duly signed approval stamp of the ECS Compliance Division. The "As-Built" construction documents shall be provided to ECS Compliance Division and PWD, one electronic copy, with PDF and CAD format. The As-Built Plans shall include all underground utility construction.
25. A minimum of one temporary fire department access roadway shall be installed prior to and during construction of every facility, building or portion of building and maintain a roadway 16 feet wide, with minimum 4-inch thickness of aggregate base course or decomposed granite compacted to 90% density where natural soil will not meet compaction requirements. The temporary fire department access roadway shall be constructed to allow fire department personnel access to the entire perimeter of the entire construction site from the public roadway. Reference SRFD IFC 503.14.

Water, Sewer and Storm Drain Notes:

1. Only Community PWD personnel shall operate existing valves. The PWD personnel will close existing valves, but will not guarantee a bone-dry shutdown.
2. Water lines shall not be hydrostatic tested for acceptance until all the underground utilities have been installed and backfilled and prior to placement of the finish surface material.
3. Sewer lines shall not be tested for acceptance until all the underground utilities have been installed and backfilled and prior to placement of the finish surface material.



4. The Community requires 100 percent of the entire installation to be tested by low pressure air test, deflection test (5%) for HDPE and PVC Pipe and Video Inspection (CCTV) as per MAG Section. 611.3. Cost of repairs or corrections necessary to confirm to the testing requirements will be borne by the Contractor at no additional cost to the Community.
5. The Community requires 100 percent of the new manholes to be exfiltration (vacuum) and spark tested. Cost of repairs or corrections necessary to confirm to the testing requirements will be borne by the Contractor at no additional cost to the Community.
6. Storm drain drywell systems shall adhere to the Community's Drywell Program Requirements, Registration and Approval Process and SRP-MIC Drywell Registration Form shall be submitted to EPNR. Storm Drain Drywells shall be installed per the approved MaxWell Plus Drainage System Detail manufactured by Torrent Resources.

Roads Notes:

1. Contraction joint spacing may be five (5) feet.
2. Class AA concrete shall be used for all valley gutters and utility adjustments and as specified on the plans.
3. Class A concrete shall be used for concrete structures, either reinforced or non-reinforced, for all curb, gutter, sidewalks, sidewalk ramps, and driveway and exposed structures except as may be specified otherwise.
4. Class B concrete may be used for thrust blocks, encasements, fill or over excavation, etc.
5. At least 48 hours prior to the installation of any permanent pavement markings, the Contractor shall be responsible for scheduling an on-site meeting with ECS Compliance Division and the Project Manager to review pavement layout markings. Approval and sign-off of pavement layout markings by Compliance must be obtained by the Contractor prior to the installations of any permanent pavement markings.



Water Pipe:

4 inch through 12 inch diameter pipe shall be AWWA C150 ductile iron or AWWA C900 Polyvinyl Chloride (PVC) class 235.

16 inch and larger pipe shall be either AWWA C150 class 250 ductile iron or AWWA C905 Polyvinyl Chloride (PVC) class 200.

Fittings: Coupling-MACRO HP by ROMAC Industries.

Fire Hydrant: Waterous Pacer with APLHA base (5-1/4 inch) by American Flow control.

Water Meter: 1" or smaller-Sensus iPerl. (1-1/2" meters are not available)
2" to 3" meters-Sensus Omni T2.

Water Meter Box: Traffic Rated B1730 BOX by Oldcastle Precast
Non-Traffic Rated DFW1730C-18-1 by DFW Plastics, INC.

Gate Valves: American Flow Control or SRP-MIC approved equal.
Debris cap shall be IN FACT Corporation Waterworks Product-Mud Plug-Valve box debris plug or approved equal.

Domestic/Landscape Services Backflow Preventer: Watts, Wilkins, or SRP-MIC approved equal per SRP-MIC Detail 4304.

Fire Protection Service Double Check Valve Backflow Prevention Assembly:
Watts or SRP-MIC approved equal per SRP-MIC Detail 4305.

Tracer Wire:

Copperhead High Strength Tracer Wire (part # 1230-HS-Blue color) Twelve (12) gauge stranded copper or copper clad steel tracer wire insulated with high molecular weight polyethylene Wire.

Copperhead Snake Bite Connectors (Part # SCB-01-SR).

Copperhead Tracer Wire Connection Station-Copperhead Tracer Wire Box (part # LD14*TP* Blue Lid)

Copperhead Magnesium Drive Anode (part # ANO-12).

Marking Tape:

Detectable marking tape, minimum four (4) mil thick, three (3) inches wide, inert polyethylene plastic that is impervious to all known alkalis, acids, chemical reagents and solvents likely to be encountered in the soil. Tracer wire and marking tape shall be the APWA color code and utility legend printed with "Potable Water Line" (blue) and "Sewer Line" (green).

Sewer Pipe: Polyvinylchloride (PVC) SDR 26.

Coating for Sanitary Manholes:

Sauereisen corrosion-clad polymer lining No. 210/F-120 manufactured by Sauereisen Cements, Pittsburgh, PA 15238.

Sewer Shield 150 topcoat with C120 calcium aluminate cement underlayment as manufactured by Environmental Coasting, Mesa, AZ 85207.

Ravem 405/405FS by Raven Lining Systems, Broken Arrow, OK 74012.

Insecticide Coating by Insecta Marketing, Inc.

Asphalt Concrete Mixes: 1/2 inch and 3/4 inch Marshall Compaction Method per MAG Section 710.

Concrete Patch: 10 Minute Concrete Mender by Roadware Incorporated

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
PUBLIC WORKS APPROVED MATERIALS LIST

