

CITY OF PHOENIX PUBLIC WORKS DEPARTMENT SOLID WASTE ACCESS AND CONTAINMENT STANDARD DETAILS



APPROVAL:

John A. [Signature]
PUBLIC WORKS DIRECTOR

9/19/2014
DATE

PAGE 1 OF 3

THIS STANDARD IS BASED ON PHOENIX CITY CODE CHAPTER 27 "SOLID WASTE" AND THE TECHNICAL REQUIREMENTS OF CITY OF PHOENIX OPERATED COLLECTION EQUIPMENT.

ACCESS:

1. IN GENERAL TERMS, ALL SOLID WASTE/RECYCLE COLLECTION ROUTES SHALL MEET ENGINEERING DESIGN CRITERIA IN A MANNER THAT ALLOWS COLLECTION VEHICLES TO SAFELY ACCESS AND LIFT BINS WITHOUT GROUND LEVEL OR AERIAL OBSTRUCTIONS.
2. COLLECTION VEHICLE ROUTE SHALL BE A MINIMUM OF 16'-0" WIDE.
3. COLLECTION VEHICLE TURNING RADIUS: 44'-0" OUTSIDE TURNING RADIUS AND 28'-6" INSIDE TURNING RADIUS.
4. COLLECTION VEHICLE IS 30'-0" LONG AND WEIGHS APPROXIMATELY 20 TONS WHEN FULLY LOADED. COLLECTION ROUTES SHALL BE ENGINEERED TO SUPPORT COLLECTION VEHICLES.
5. COLLECTION ROUTE THROUGH A SITE SHALL BE SUCH THAT THE COLLECTION VEHICLE SHALL TRAVEL THROUGH A SITE ONCE WITHOUT BACK TRACKING. (FIGURE A)
6. ROUTES SHALL BE CLEAR OF ALL OBSTRUCTIONS. NO AWNING OR BUILDING PROJECTIONS ARE ALLOWED IN COLLECTION VEHICLE ROUTE. MINIMUM OVERHEAD CLEARANCE OF 14'-0" IS REQUIRED FOR COLLECTION ROUTE AND 25'-0" OVER BIN ENCLOSURE AREA FROM STEEL SAFETY POSTS BACK 50'-0".
7. ALL CURBS SHALL ALIGN ON THE OUTSIDE OF THE ENCLOSURE WALLS. CURBS SHALL NOT INTERFERE WITH THE ROUTE OF THE SOLID WASTE COLLECTION VEHICLE.
8. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE COLLECTION VEHICLE ROUTE. (FIGURE B)
9. BIN ENCLOSURES SHALL BE LOCATED AWAY FROM ENTRANCES AND EXITS SO COLLECTION VEHICLE DOES NOT CREATE A SAFETY HAZARD BY BLOCKING IN-COMING OR OUT-GOING TRAFFIC.
10. BIN ENCLOSURES SHALL BE A MINIMUM OF 3'-0" FROM ANY PLANNED OR EXISTING NON-COMBUSTIBLE STRUCTURE AND 5'-0" FROM ANY PLANNED OR EXISTING COMBUSTIBLE STRUCTURE.
11. FOR SAFETY, COLLECTION VEHICLES WILL NOT BACK UP MORE THAN 50'-0" AFTER SERVICING A BIN.
12. FOR CITY OF PHOENIX COLLECTION, A REFUSE COLLECTION EASEMENT WILL BE REQUIRED FOR ANY PORTION OF THE COLLECTION ROUTE NOT LOCATED IN PUBLIC RIGHT OF WAY.

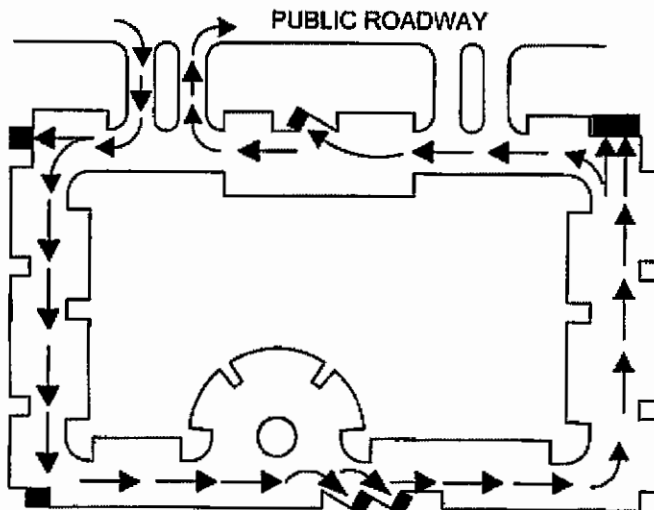
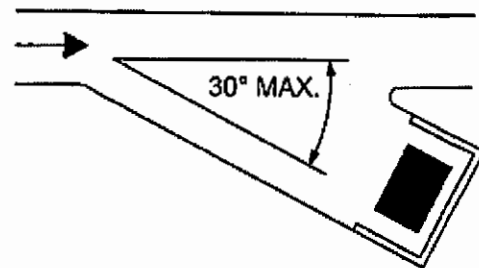


FIGURE A



MAX. BIN DEVIATION
FIGURE B

CITY OF PHOENIX PUBLIC WORKS DEPARTMENT SOLID WASTE ACCESS AND CONTAINMENT STANDARD DETAILS



APPROVAL: John A. Ingalls 9/19/2014
PUBLIC WORKS DIRECTOR DATE

PAGE 2 OF 3

CONTAINMENT:

1. TRASH AND RECYCLING BIN AREA SHALL BE SCREENED WITH A MINIMUM 6'-0" MASONRY WALL PER FIGURE C AND FIGURE D. EXTERIOR FINISH OF WALLS SHALL BE ARCHITECTURALLY INTEGRATED WITH PRIMARY BUILDING
2. ALL ENCLOSURES SHALL HAVE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW. GATES SHALL BE INSTALLED TO PROVIDE A NET ENCLOSURE OPENING OF 12'-0" PER BIN. GATES, HINGES AND MOUNTING HARDWARE SHALL NOT PROJECT INTO MINIMUM NET ENCLOSURE OPENING. DOUBLE OR TRIPLE WIDE ENCLOSURES NEED NOT HAVE A DEMISING WALL BETWEEN BINS, BUT MUST MAINTAIN REQUIRED NET CLEAR OPENING WIDTH FOR EACH BIN TO BE SERVED. (FIGURE C AND FIGURE F)
3. GATES, HINGES, MOUNTING HARDWARE, AND SAFETY POSTS SHALL BE INSTALLED SO THERE IS A MINIMUM 9'-0" DEPTH CREATED IN THE ENCLOSURE. (FIGURE C)
4. PROVIDE A 3'-0" PEDESTRIAN ACCESS GATE INTO ENCLOSURE. GATE MAY BE LOCKABLE. (FIGURE C)
5. ENCLOSURE GATE SHALL HAVE DROP PINS INSTALLED AND HOLES DRILLED IN THE CONCRETE AT OPEN AND CLOSED POSITIONS.
6. BIN ENCLOSURES SHALL HAVE TWO 4" DIAMETER MINIMUM STEEL SAFETY POSTS INSTALLED IN THE BACK OF THE ENCLOSURE. SAFETY POSTS SHALL HAVE A MINIMUM HEIGHT OF 6'-0" 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. (FIGURE C AND FIGURE E)
7. USE CLASS "A" CONCRETE EXCEPT AS NOTED IN SAFETY POST DETAIL ON THIS SHEET.
8. STEEL REINFORCEMENT SHALL BE GRADE 40.
9. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER ASTM D-1751.
10. SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6 INCHES AND TO A MINIMUM DRY DENSITY OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION.
11. SITE APPURTANCES SUCH AS LANDSCAPING CONTROL BOXES AND LIGHTING MAY BE PLACED ON THE OUTSIDE OF THE ENCLOSURE WALLS

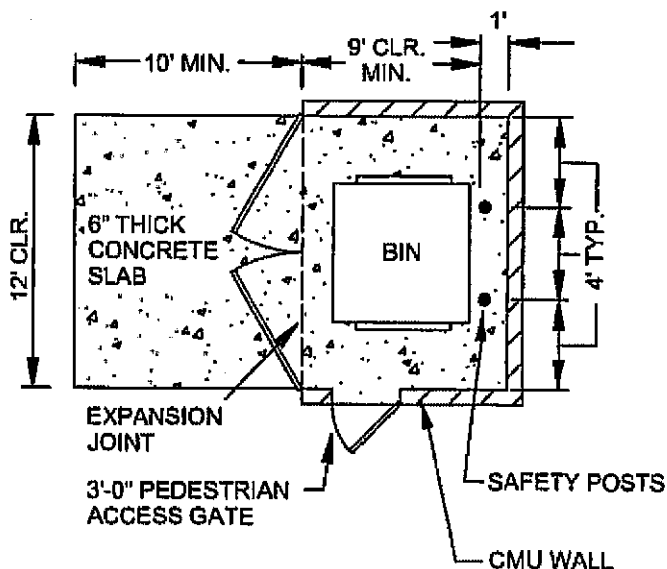


FIGURE C

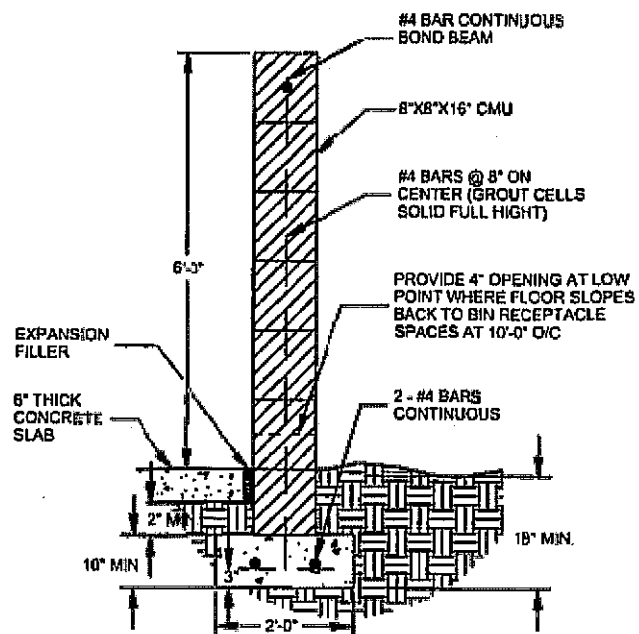


FIGURE D

CITY OF PHOENIX PUBLIC WORKS DEPARTMENT SOLID WASTE ACCESS AND CONTAINMENT STANDARD DETAILS



APPROVAL: John A. Sempello 9/19/2014
PUBLIC WORKS DIRECTOR DATE

USE SPECIFIC REQUIREMENTS:

1. RESTAURANTS MUST PROVIDE A SEPARATE ENCLOSED AREA TO ACCOMMODATE THEIR GREASE TRAP. THIS DESIGNATED AREA MUST NOT INTERFERE WITH TRASH/RECYCLING COLLECTION.
2. MULTIFAMILY DEVELOPMENT SOLID WASTE REQUIREMENT IS 1/4 CUBIC YARD PER DWELLING UNIT.
3. COMPACTORS CAN BE USED IN DEVELOPMENTS WHERE EMPLOYEES LOAD AND ACTIVATE THE COMPACTION EQUIPMENT. DEVELOPMENTS THAT ALLOW CUSTOMERS OR RESIDENTS ACCESS TO THE COMPACTING EQUIPMENT WILL NOT BE APPROVED. CITY OF PHOENIX ALLOWS A 3:1 COMPACTION RATE. GREATER COMPACTION RATES REQUIRE CASE BY CASE APPROVAL BASED ON MANUFACTURER'S SPECIFICATIONS.

USE SPECIFIC RECOMMENDATIONS:

1. CITY OF PHOENIX RECOMMENDS PROVIDING RECYCLING CAPACITY EQUAL TO REQUIRED SOLID WASTE CAPACITY FOR COMMERCIAL DEVELOPMENTS AND MULTIFAMILY DEVELOPMENTS.
2. MULTI-FAMILY RESIDENTIAL DEVELOPMENTS SHOULD COLOCATE OR LOCATE IN CLOSE PROXIMITY SOLID WASTE AND RECYCLE FACILITIES. THIS HELPS REDUCE CONTAMINATION OF RECYCLE BINS WHEN SOLID WASTE IS PLACED IN THE RECYCLE BIN.
3. COMMERCIAL PROPERTIES SHOULD BE DESIGNED TO PROVIDE A REFUSE ENCLOSURE FOR EVERY 20,000 SQUARE FEET OF BUILDING SPACE.
4. RESTAURANTS WHICH ARE DESIGNED ON A SINGLE PAD SHOULD HAVE A MINIMUM OF ONE REFUSE ENCLOSURE.

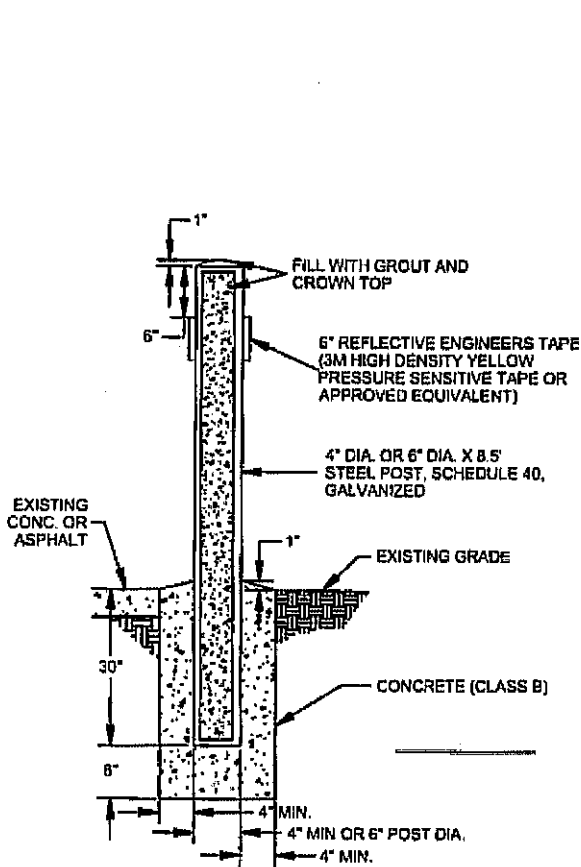


FIGURE E

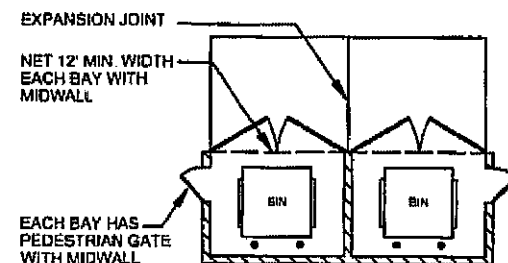
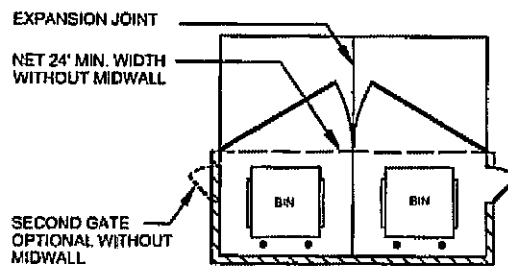
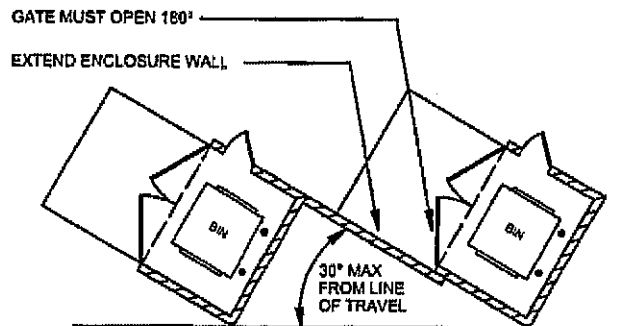


FIGURE F