City of Farmington, Missouri Drawing Details for Public Improvements

JUNE 2016



Adopted May 12, 2016

Larry Lacy, P.E.
Director of Public Works

PREPARED IN CONJUNCTION WITH



530A East Independent Drive Union, MO 63084 (636)584-0540

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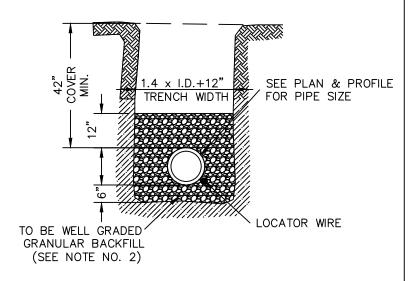
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NOTES:

- Backfill material above granular backfill for water main shall be suitable earth, free from large rocks or stones.
- All trenches shall have a bedding of well-graded, granular backfill from 6" below the bottom of the pipe to 12" above top of pipe compacted to 95% of the Standard Proctor Density. (ASTM D-698)
- 3. Contractor shall be responsible for trench settlement.
- 4. Well—graded full depth granular compacted backfill to be used in all areas to be paved.
- Well-graded, granular material used for embedment of plastic pipe shall be type "5" aggregate for sizes 8" diameter and smaller. 1" minus aggregate for pipe sizes 10" diameter and larger.
- 6. Locator wire shall be #12 solid copper wire, insulated for 600 v. with splice points at valve boxes.
- 7. In areas to be seeded, the top 4" of backfill shall be topsoil.



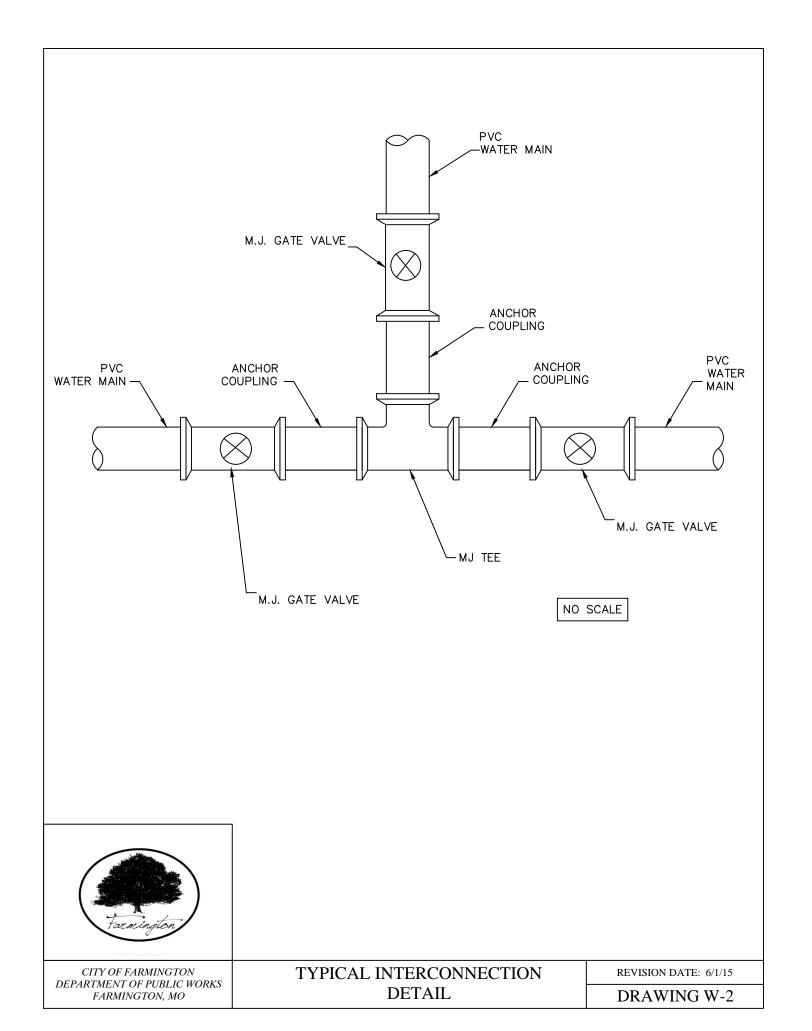
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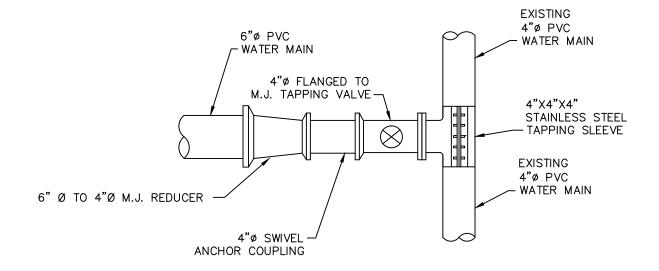


CITY OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
FARMINGTON, MO

TYPICAL WATER MAIN TRENCHING DETAIL

REVISION DATE: 6/1/15





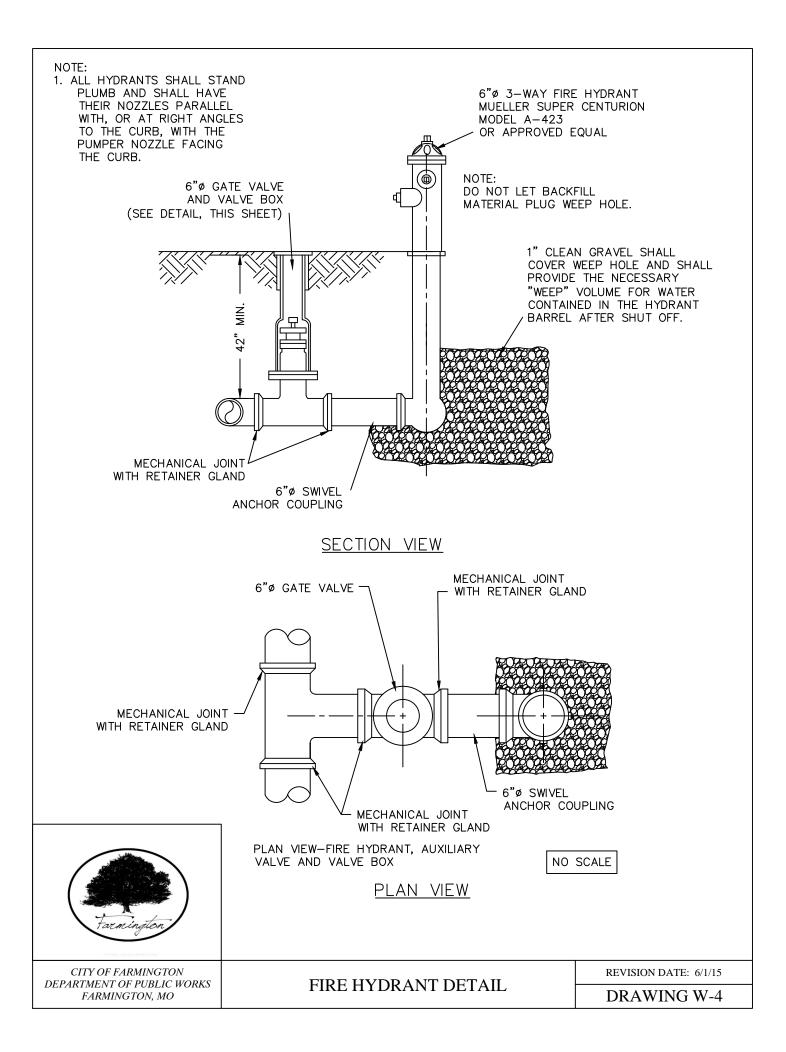
NOTES:

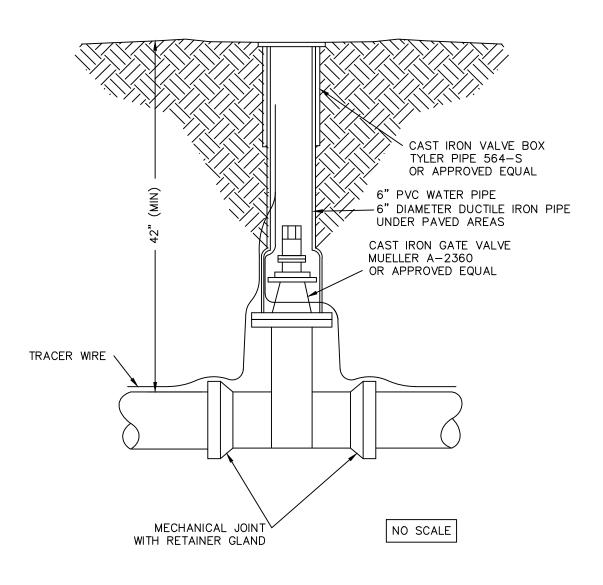
- 1. PIPE DIAMETERS ARE FOR EXAMPLE PURPOSES ONLY.
 2. ALL M.J. FITTINGS, NOT OTHERWISE RESTRAINED, SHALL
- HAVE RETAINER GLANDS.



CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO

TAPPING SLEEVE AND CONNECTION DETAIL REVISION DATE: 6/1/15

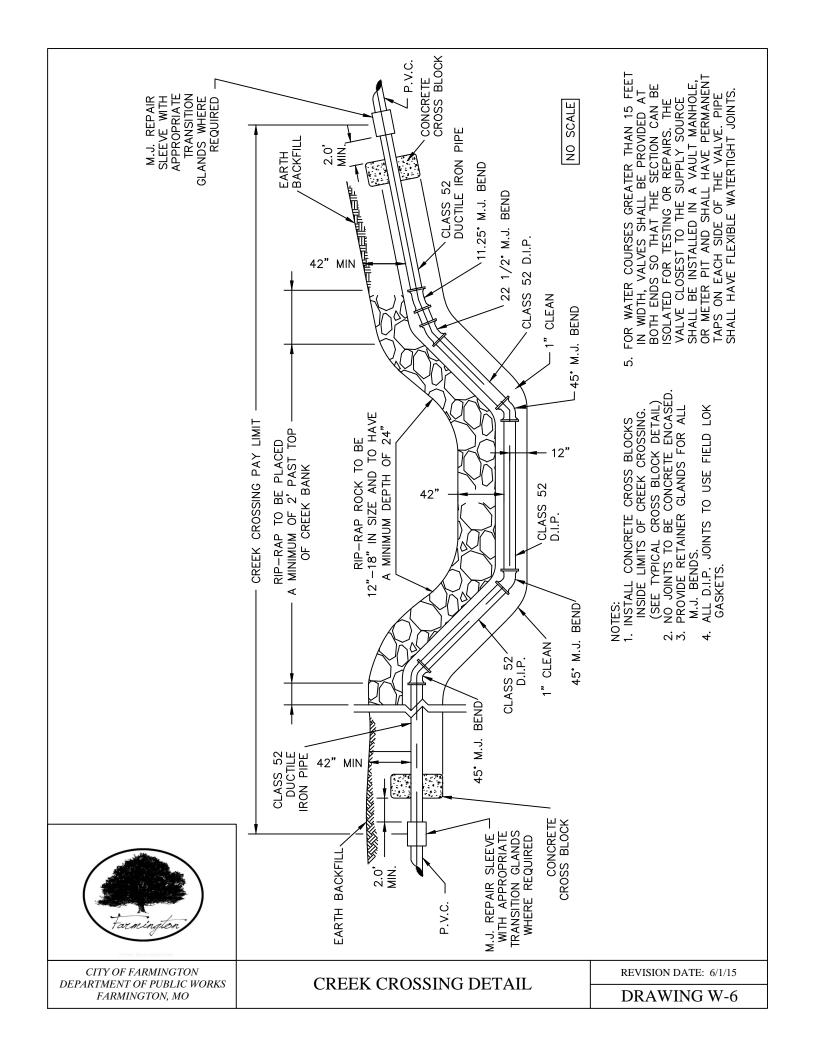


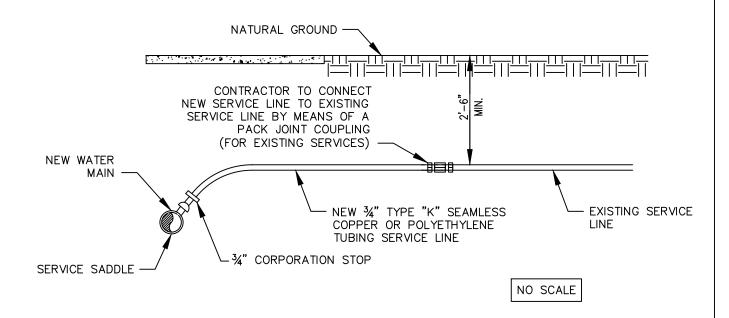




CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO GATE VALVE & VALVE BOX DETAIL

REVISION DATE: 6/1/15





NOTES:

- SERVICE SADDLE TO BE A MUELLER MODEL H-13433 FOR 8"Ø WATER MAIN, H-13434 FOR 10"Ø WATER MAIN OR APPROVED EQUAL.
- CORPORATION STOP TO BE A MUELLER MODEL B-25008 OR APPROVED EQUAL.
- PACK JOINT COUPLING TO BE A FORD MODEL C44-33, OR APPROVED EQUAL (FOR EXISTING SERVICES).



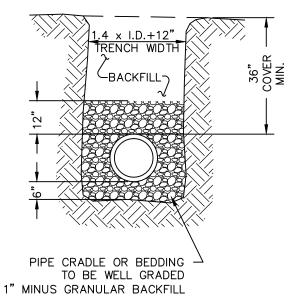
CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO

WATER SERVICE CONNECTION DETAIL

REVISION DATE: 6/1/15

NOTES:

- 1. ALL TRENCHES SHALL HAVE A BEDDING OF WELL GRADED, GRANULAR MATERIAL FROM 6" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE PIPE COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D-698).
- 2. ÎN AREAS TO BE PAVED OVER, ENTIRE TRENCH SHALL BE BACKFILLED WITH WELL GRADED GRANULAR MATERIAL & COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY (ASTM D-698).
- 3. IN AREAS OF CLEAN SOIL CUTS OUTSIDE OF PAVED AREAS, ABOVE THE BEDDING SPECIFIED IN ITEM 1, TRENCH MAY BE BACKFILLED WITH THE EXCAVATED CLEAN SOIL MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY (ASTM D-698).
- 6. IN AREAS TO BE SEEDED, THE TOP 4" OF BACKFILL SHALL BE TOPSOIL.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SETTLEMENT.



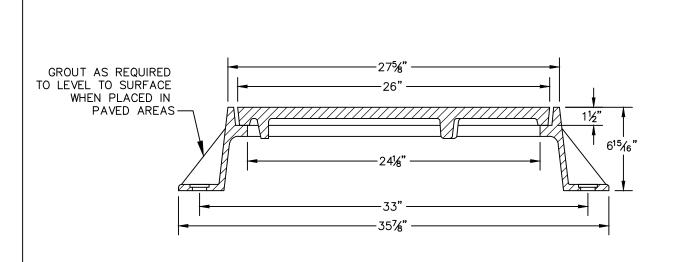
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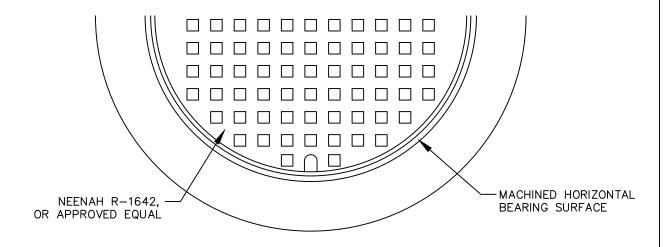


CITY OF FARMINGTON
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TYPICAL SANITARY SEWER TRENCHING

REVISION DATE: 6/1/15

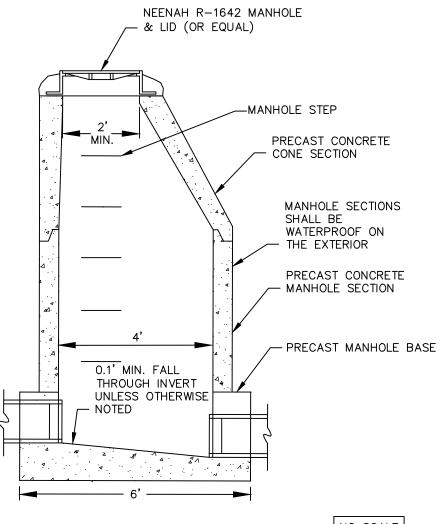






CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO SANITARY SEWER MANHOLE FRAME AND COVER

REVISION DATE: 6/1/15



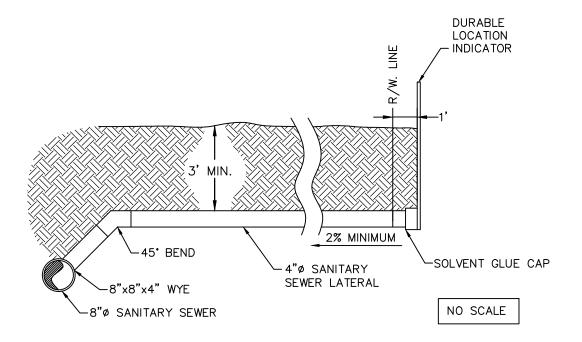


NOTES:

- 1. HEIGHTS OF PRECAST CONCRETE SECTIONS ARE VARIABLE.
 2. ALL JOINTS BETWEEN PRE-CAST CONCRETE SECTIONS SHALL BE MADE WITH AN APPROVED BITUMASTIC MATERIAL OR AN APPROVED RUBBER GASKET.

CITY OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
FARMINGTON. MO

REVISION DATE: 6/1/15



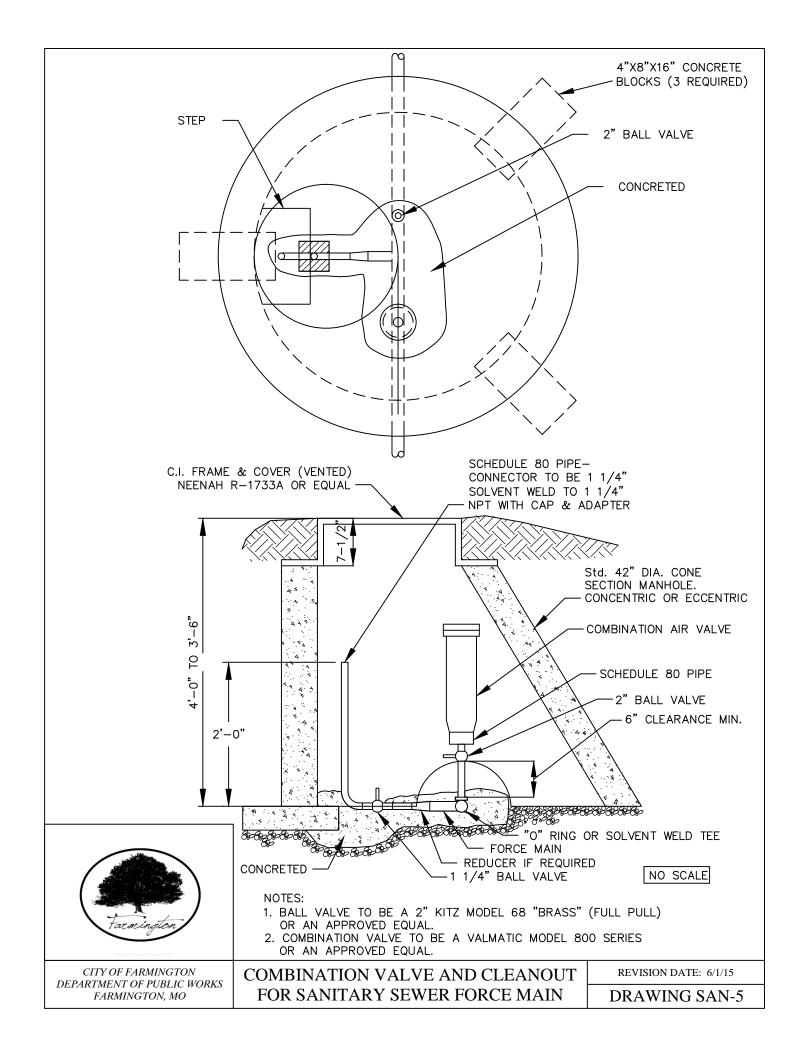


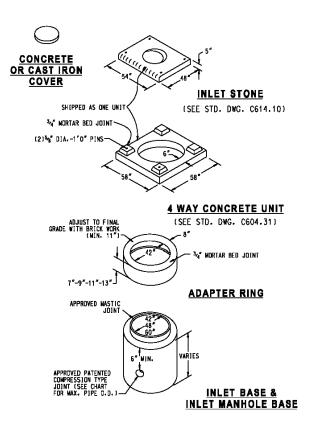
NOTES:

- 1. SANITARY SEWER LATERALS TO BE 20' MINIMUM.
- 2. LATERALS EXTENDING UNDER STREETS TO BE TERMINATED 1' BEYOND R/W LINES.
- 3. 1" MINUS GRANULAR BACKFILL TO BE USED UNDER ALL PAVED AREAS.
- 4. PIPE DIAMETERS ARE FOR EXAMPLE PURPOSES ONLY.

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DEPARTMENT OF PUBLIC WORKS
FARMINGTON, MO

SANITARY SEWER LATERAL REVISION DATE: 6/1/15





PRE-CAST CONCRETE UNIT AREA INLET

PRECAST CONCRETE STORMWATER STRUCTURES

MINIMUM DISTANCE FLOWLINE TO TOP OF STONE OR GRATE

PIPE ID Noninal	+ID1	AREA INLE Ular base	I 014	CIDCII	2 GRATE AR BASI	INLET		C1021	NGLE ST	REET IN	LET Ctangle
ENCHES	42"	48"	60	42"	48"	60	(MAX.)	42	48	60	(MAX.)
12*	45*			38"			31"	48"			41"
15*	48"			41"			34"	51*			44"
16*	52*			44"			37"	55*			48"
21*	55"			47"			40"	58*			51 "
24*		58*			51*		44"		61 "		54"
27*			78"			71 "	NA			81"	NA
30*			82"			74°	NA			85*	NA
33*			85"			77°	NA			88*	NA

NOTE: 1. 48° DIA. BASE REQUIRES 7° HIGH TRANSITION SECTION TO 42° DIA.. SIMILAR TO "ADAPTER RING".

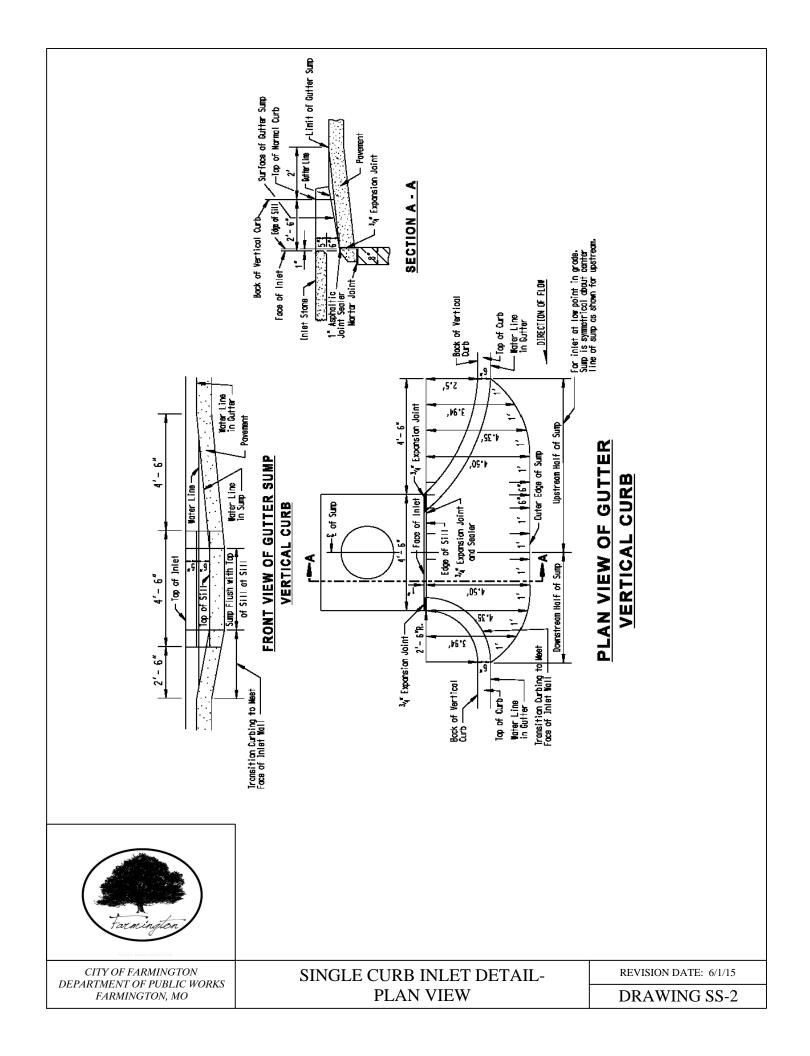
2. 60° DIA. BASE REQUIRES 24° HIGH CONCENTRIC REDUCER TRANSITION TO 42° DIA.. SIMILAR TO "ADAPTER RING".

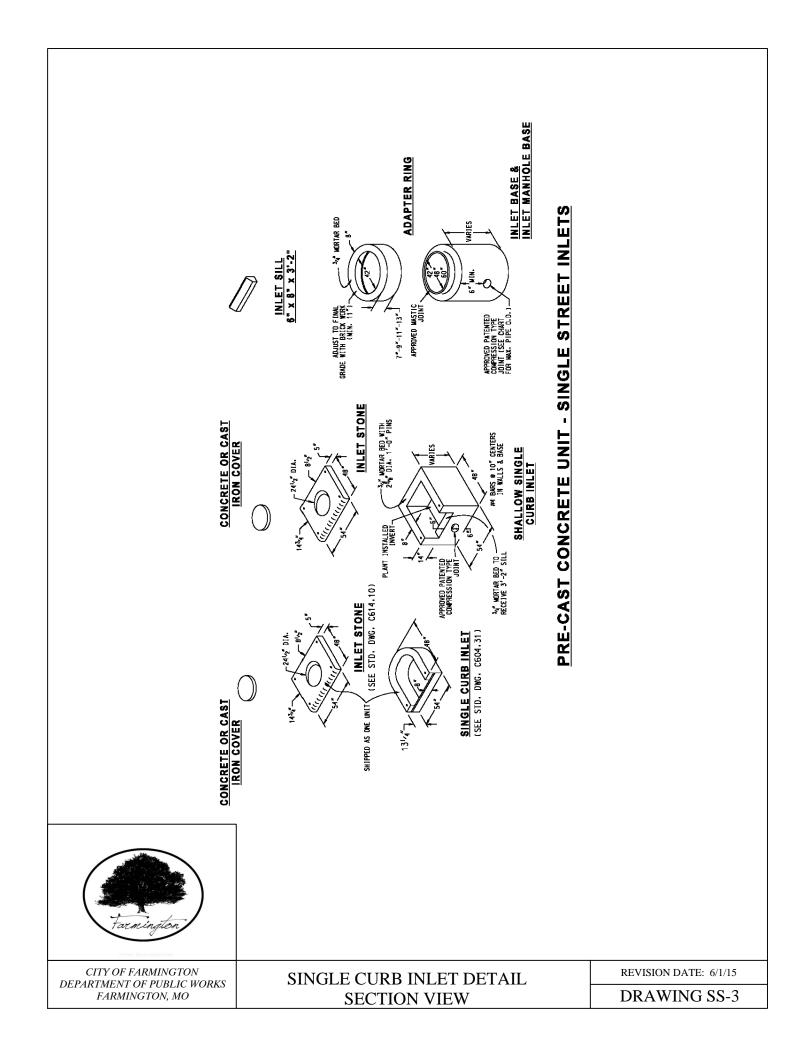


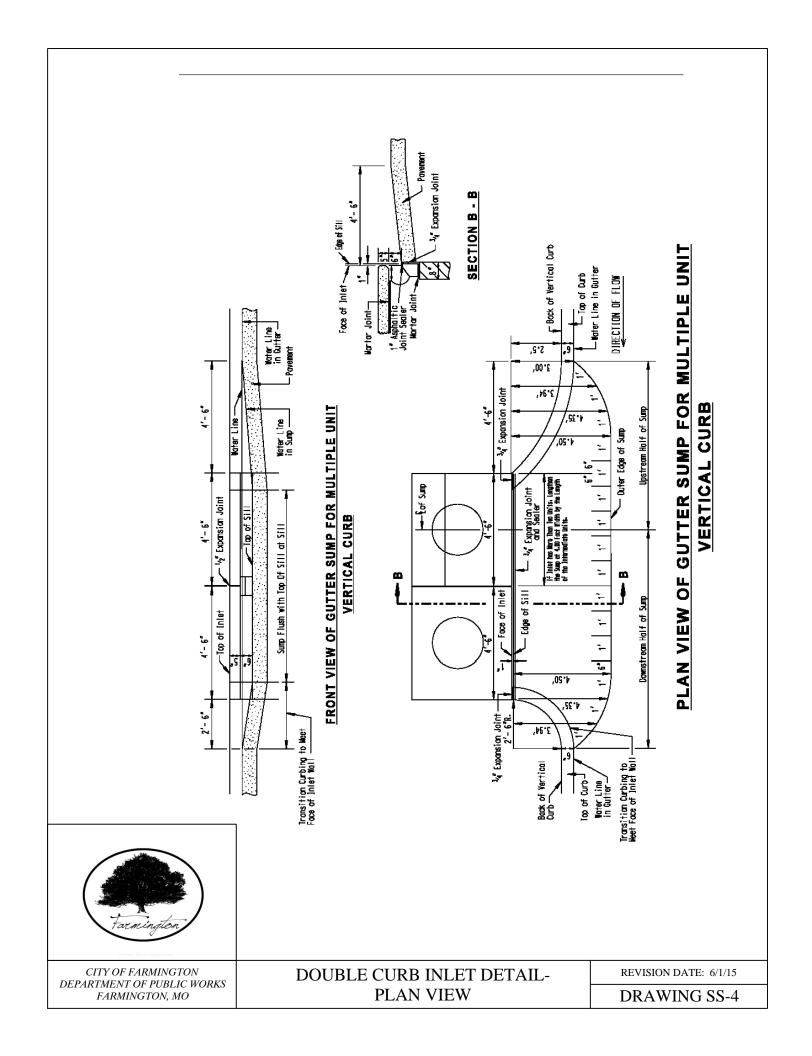
JUNCTION BOX/INLET DETAIL

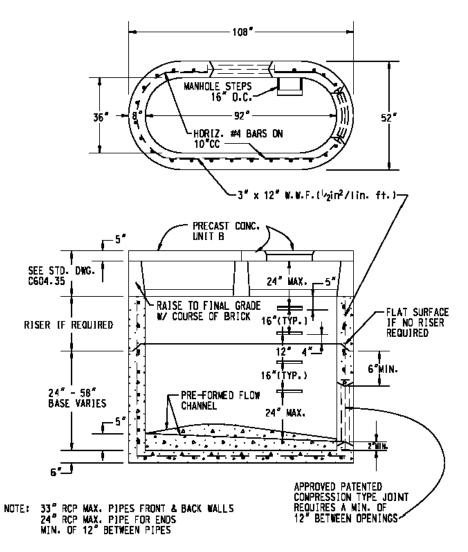
NOTES: FOR STORM WATER JUNCTION BOX UTILIZE A PRECAST CONE SECTION FOR BARREL SECTIONS UP TO 48" DIAMETER. UTILIZE A PRECAST FLAT TOP FOR BARREL SECTIONS LONGER THAN 48" DIAMETER.

CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO REVISION DATE: 6/1/15







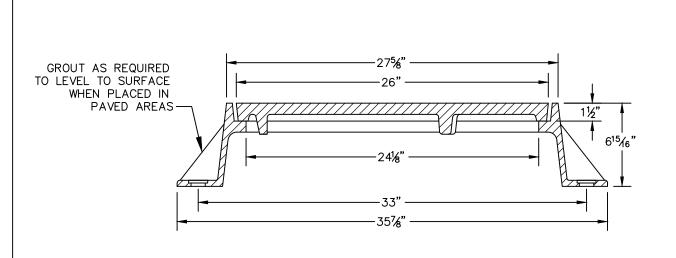


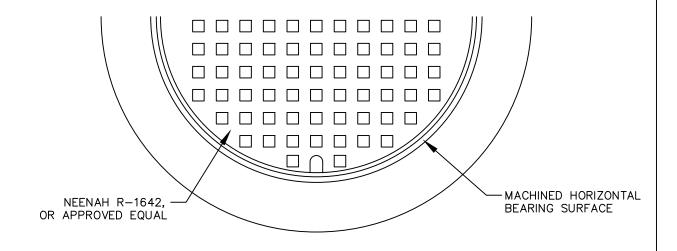
PRE-CAST CONCRETE UNIT DOUBLE UNTRAPPED STREET INLET



CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO DOUBLE CURB INLET DETAIL SECTION VIEW

REVISION DATE: 6/1/15





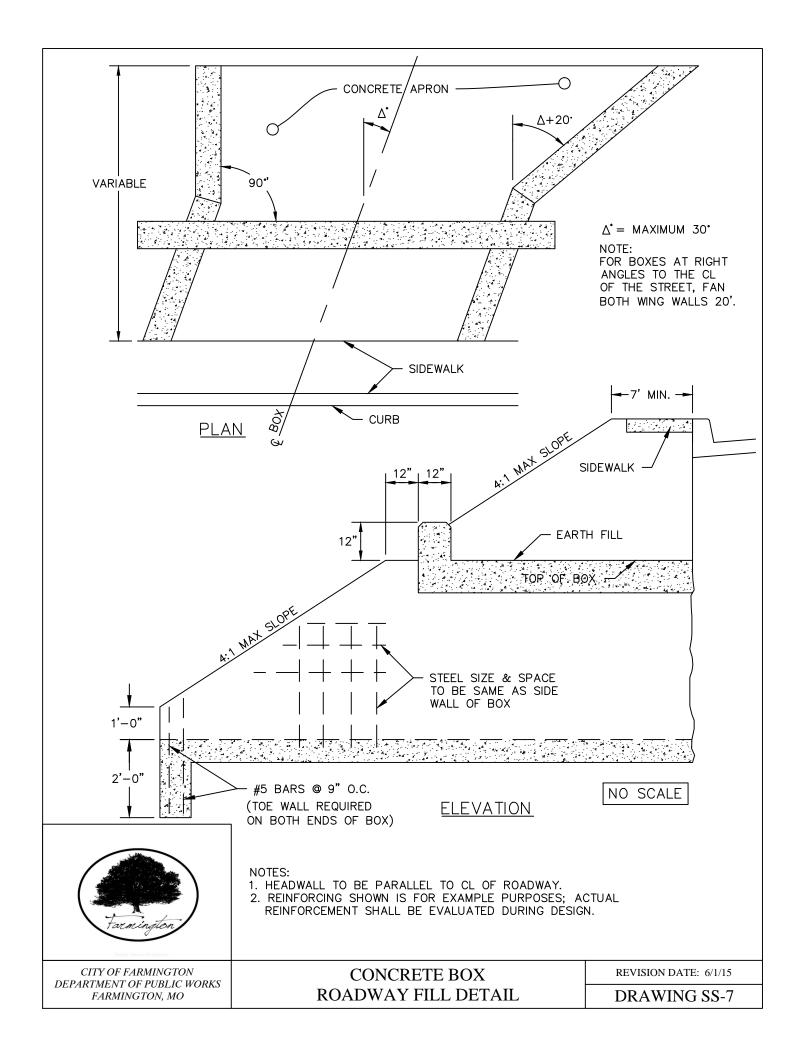


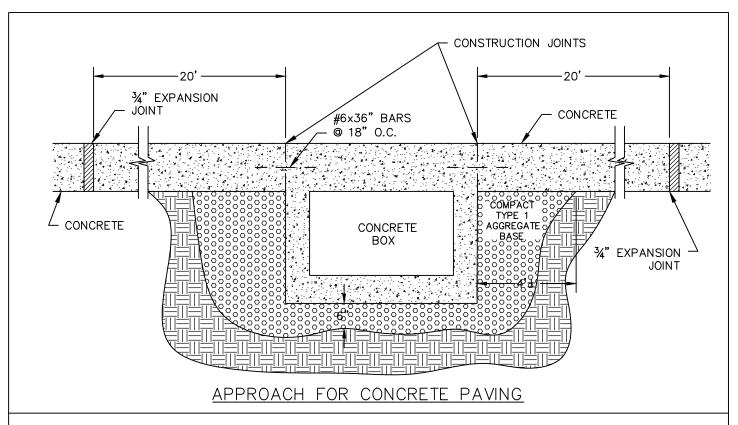
CITY OF FARMINGTON
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FARMINGTON, MO

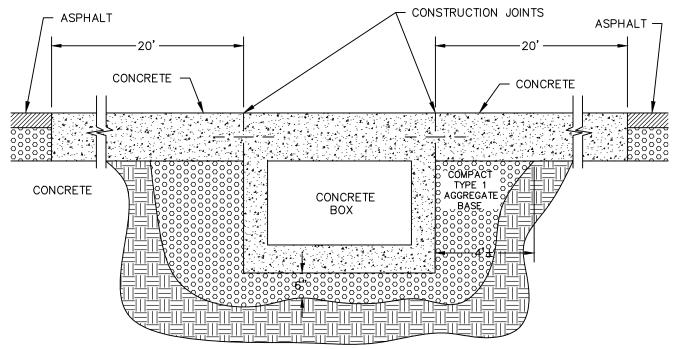
STORM SEWER FRAME & COVER DETAILS

REVISION DATE: 6/1/15

NO SCALE









APPROACH FOR ASPHALT PAVING

NO SCALE

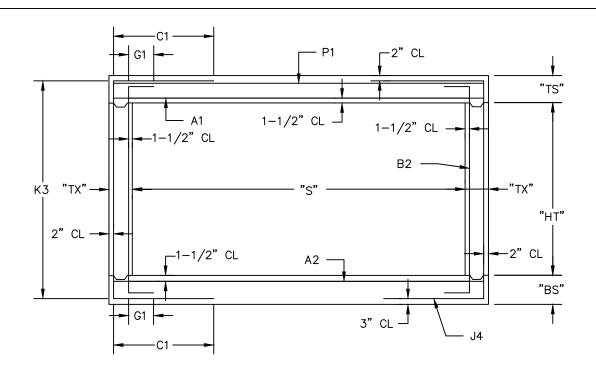
NOTES:

- 1. PLACE 4' CLAY CAP ON STREET SIDE SLOPES AT EDGES OF CULVERT.3
 2. REINFORCING SHOWN IS FOR EXAMPLE PURPOSES; ACTUAL REINFORCEMENT SHALL BE EVALUATED DURING DESIGN.

CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO

APPROACHES TO **BOX CULVERT**

REVISION DATE: 6/1/15



NOTES:

- 1. ALL CULVERTS SHALL BE DESIGNED FOR HS20 LOADINGS USING CONCRETE, f'c=4,000 psi OR GREATER, REINFORCING STEEL (GRADE 60), fy = 60,000 psi
 LAP ALL LONGITUDINAL BARS A MINIMUM OF 23" AT SPLICES
 ALL DIMENSIONS ARE TO BE SHOWN IN INCHES

- 4. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2 INCHES UNLESS OTHERWISE SHOWN
- 5. F BARS ARE TO BE A MINIMUM #4 WITH SPACING LABELED ON SECTION VIEW
 6. A FILTER CLOTH 3 FEET IN WIDTH AND DOUBLE THICKNESS SHALL BE APPLIED
 TO ALL TRANSVERSE JOINTS IN THE TOP SLAB AND SIDEWALLS. THE MATERIAL
 SHALL BE CENTERED ON THE JOINT AND THE EDGES SHALL BE A GEOTEXTILE
 MEETING THE APPROVAL OF THE ENGINEER AND HAVING A GRAB OF TENSILE STRENGTH OF 180LBS. (ASTM D-4632) AND AN APPARENT OF 50 TO 100 (ASTM D-4751). COST OF FURNISHING AND INSTALLING THE FILTER CLOTH WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE
- FOR OTHER ITEMS.

 7. THE DESIGN SHALL SHOW AS A MINIMUM: THE DESIGN LOAD, DESIGN FILL HEIGHT, CONCRETE AND STEEL STRESS USED, AND THE FOLLOWING INFORMATION.
- 8. ALL CULVERT DESIGN TO BE IN ACCORDANCE WITH THE EDITION OF THE MISSOURI DEPARTMENT OF TRANSPORTATION GUIDELINES.

TABLE TO BE COMPLETED BY DESIGNER



CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO

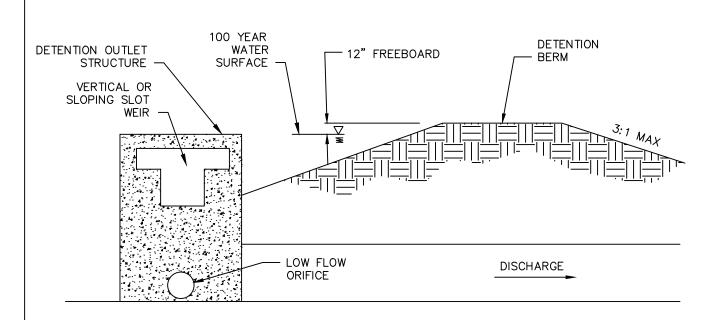
BAR	SIZE	C to C	LENGTH
A1			
A2			
B2			
J4			
P1			
F			

DESIGN LOAD _____

fy

CONCRETE BOX CULVERT MINIMUM REINFORCEMENT DETAILS

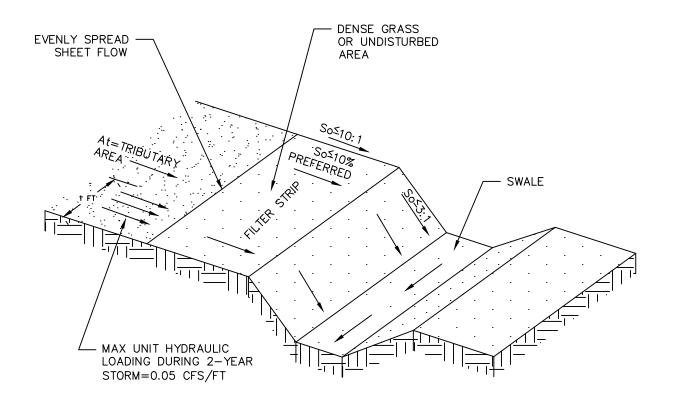
REVISION DATE: 6/1/15





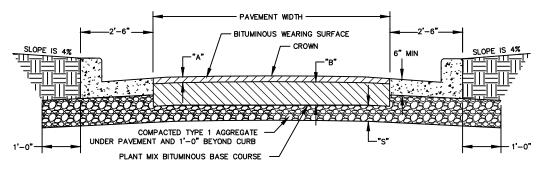
CITY OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
FARMINGTON, MO

VERTICAL BOX DETENTION OUTLET REVISION DATE: 6/1/15

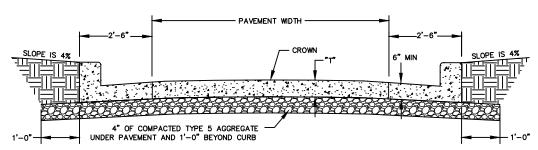




CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO VEGETATIVE FILTER STRIP WATER QUALITY BMP REVISION DATE: 6/1/15



BITUMINOUS PAVEMENT WITH CONCRETE CURB & GUTTER



PORTLAND CEMENT CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER

NO SCALE

STANDARD A	SPHALT	THICKNESS	
STREET TYPE	"A"	"B"	"s"
PRIMARY ARTERIAL	2"	8"	8"
SECONDARY ARTERIAL	2"	8"	8"
COLLECTOR	2"	6"	8"
LOCAL (RESIDENTIAL)	2"	3"	6"
LOCAL (NON-RESIDENTIAL)	2"	4"	6 "
ALLEY	2"	3"	6"

STANDARD CO	NCRETE THICKNESS
STREET TYPE	"T"
PRIMARY ARTERIAL	8"
SECONDARY ARTERIAL	8"
COLLECTOR	8"
LOCAL (RESIDENTIAL)	6"
LOCAL (NON-RESIDENTIAL)	8"
ALLEY	6"



- NOTES:

 1. CROSS SLOPE SHALL BE 2% ON ALL PAVEMENTS EXCEPT ALLEYS, SEE STANDARD DRAWING ST-4.

 2. WIDTH OF PAVEMENT IS SUBJECT TO REQUIREMENTS OF THE PLANNING DEPARTMENT AND MAY VARY FROM THE STANDARDS.

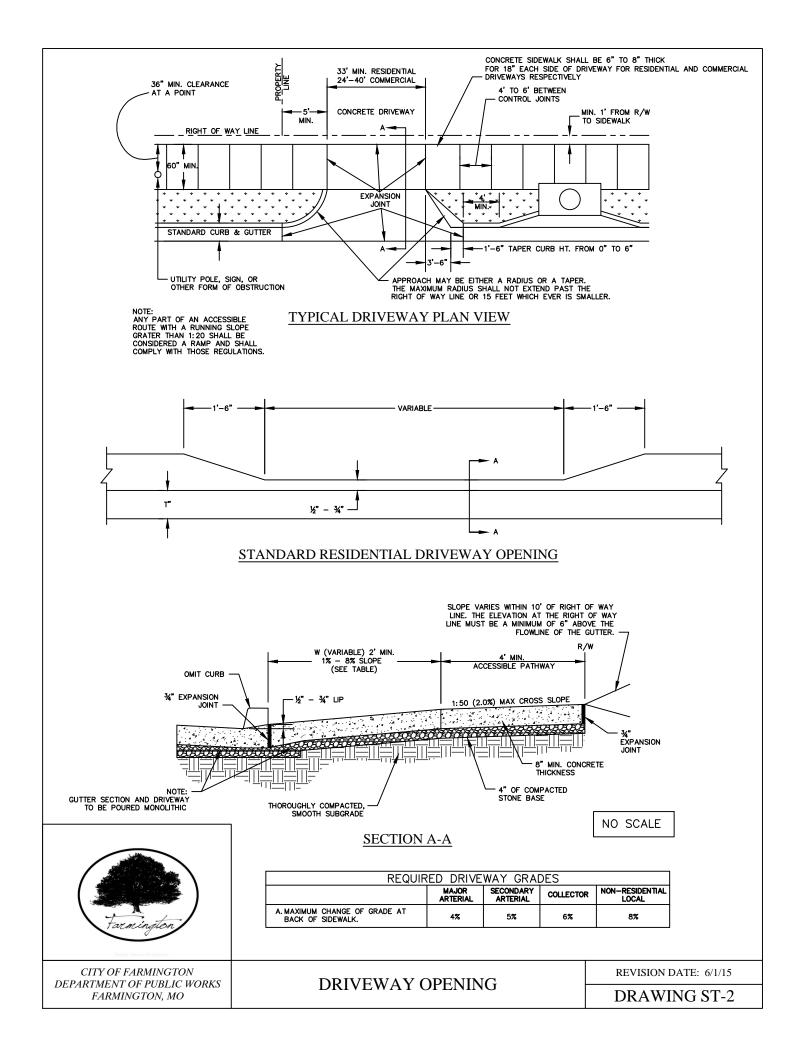
 3. REFER TO DRAWING ST-2 FOR CURB AND GUTTER DETAILS.

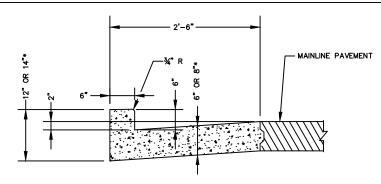
 4. BITUMINOUS ASPHALT SHALL BE PLACED IN LIFTS. MAXIMUM LIFT SHALL BE THREE (3) INCHES COMPACTED THICKNESS.

CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO

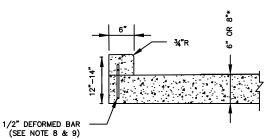
TYPICAL STREET SECTIONS

REVISION DATE: 6/1/15

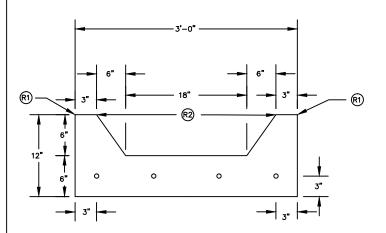




VERTICAL CURB AND GUTTER (2'-6" WIDE)



6" VERTICAL CURB (INTEGRAL SEE NOTE 7)

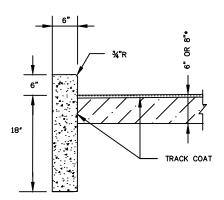


TYPE A GUTTER

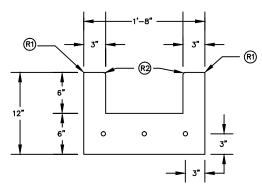


NOTES:

- KEYWAY OR #5 REBAR © 2'-6" O.C. TO BE USED ON ALL CONCRETE PAVEMENT. OMIT FOR ASPHALT PAVEMENT.
- 2. FOR ALL ARTERIALS, COLLECTORS AND LOCAL (NON RESIDENTIAL) STREETS THE GUTTER THICKNESS SHALL BE 8".
- 3. FOR LOCAL (RESIDENTIAL), MARGINAL AND ALLEYS THE GUTTER THICKNESS SHALL BE $6^{\prime\prime\prime}.$
- ALL DEFORMED BARS FOR JOINTS AND CURBS SHALL BE IN ACCORDANCE WITH AASHTO M 31, GRADE 40 AND EPOXY COATED.
- AGGREGATE BASE TO EXTEND PAST THE BACK OF CURB FOR A DISTANCE OF 12".
- 7. THE USE OF INTEGRAL OR SEPARATED CURB MUST BE APPROVED BY DEPARTMENT OF PUBLIC WORKS
- 8. CONSTRUCTION JOINT AND TIE BARS MAY BE OMITTED WHEN CURB IS POURED INTEGRAL WITH PAVEMENT.
- 9. LENGTH OF THE TIE BARS SHALL BE EQUAL TO THE THICKNESS OF PAVEMENT PLUS THE HEIGHT OF CURB LESS 3 INCHES. TIE BARS SHALL BE PLACED AT 24 INCH CENTERS.
- (R1) ROUND TO 1/4" RADIUS. (EXCEPT FOR SAWED JOINTS)
- (R2) ROUND TO 3/4" RADIUS.



6" SEPARATED CONCRETE CURB

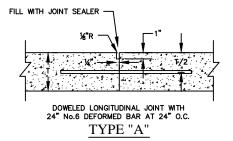


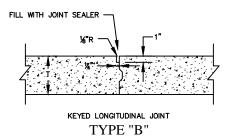
TYPE B GUTTER

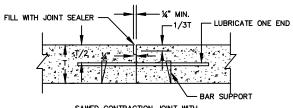


CONCRETE CURBS, CURBS & GUTTERS, AND GUTTERS

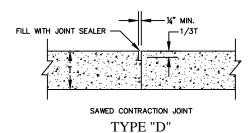
REVISION DATE: 6/1/15

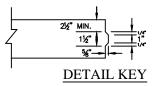




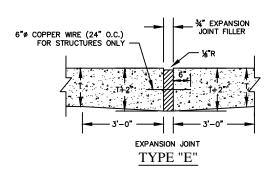


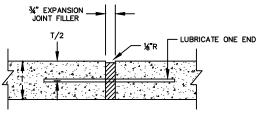
SAWED CONTRACTION JOINT WITH 1" \times 18" DOWEL BAR AT 24" O.C. $TYPE \ ^{\prime\prime}C^{\prime\prime}$



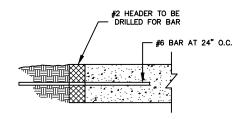


KEYWAY FORMED BY FASTENING KEY TO FORM





doweled expansion joint $\mbox{\ensuremath{\%^{\prime\prime}}}\xspace \times$ 15" dowel bar at 24" o.c. $TYPE\ "F"$



CONSTRUCTION HEADER CONCRETE

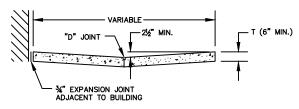
DEPTH OF SAW JOINT: 1/3 OF PAVEMENT THICKNESS

NO SCALE

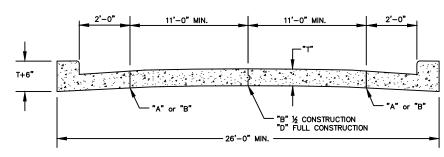


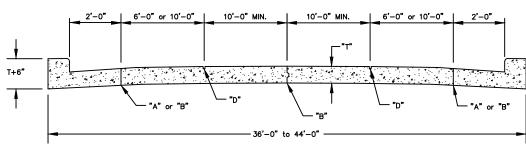
CITY OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
FARMINGTON, MO

JOINT DETAILS -CONCRETE PAVEMENT REVISION DATE: 6/1/15

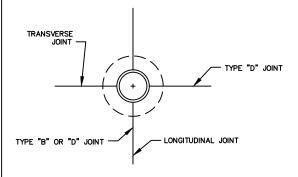


TYPICAL ALLEY SECTION

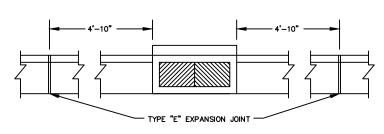




CONCRETE PAVEMENT - JOINT LOCATIONS







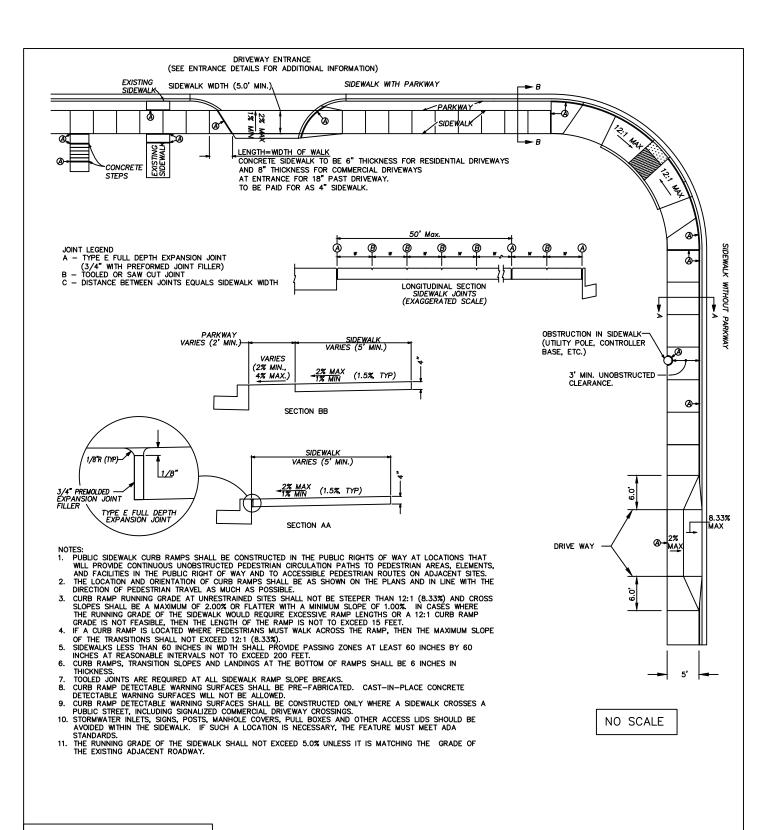
JOINT LOCATION AT INLETS



NO SCALE

CITY OF FARMINGTON DEPARTMENT OF PUBLIC WORKS FARMINGTON, MO JOINT LOCATION - CONCRETE PAVEMENT

REVISION DATE: 6/1/15





LEGEND

DETECTABLE WARNING PAD (TRUNCATED DOMES)



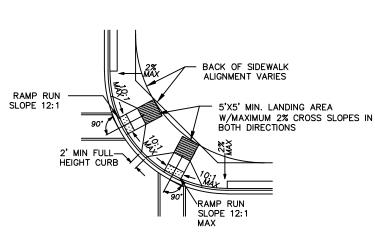
LANDING AREA (2% MAX CROSS SLOPE IN ALL DIRECTIONS)

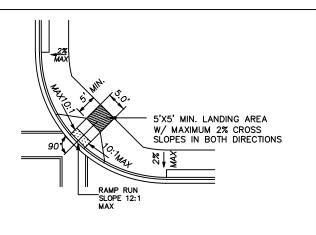
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CONCRETE SIDEWALK

REVISION DATE: 6/1/15

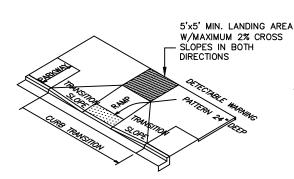
DRAWING ST-6





PERPENDICULAR SIDEWALK CURB RAMPS

DIAGONAL SIDEWALK CURB RAMPS



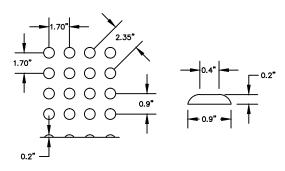
WHERE CURB RAMPS ARE CONSTRUCTED WHERE CURB RAMPS ARE CONSTRUCTED WITH THE PARKWAY SLOPE GREATER THAN 2%, THE SIDEWALK SHALL BE CONSTRUCTED TO REDUCE THE CROSS SLOPE TO 2% AT THE FLARE POINT.

SIDEWALK / PARKWAY TRANSITION

CURB RAMP NOMENCLATURE

NO SCALE

DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.



DOME SPACING

DOME SECTION



- DTES:
 PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHTS OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNDOSTRUCTED PEDESTRIAN CIRCULATION PATHS TO PEDESTRIAN AREAS, ELEMENTS, AND FACILITIES IN THE PUBLIC RIGHT OF WAY AND TO ACCESSIBLE PEDESTRIAN ROUTES ON ADJACENT SITES.
 THE LOCATION AND ORIENTATION OF CURB RAMPS SHALL BE AS SHOWN ON THE PLANS AND IN LINE WITH THE DIRECTION OF PEDESTRIAN TRAVEL AS MUCH AS POSSIBLE.
 CURB RAMP RUNNING GRADE AT UNRESTRAINED SITES SHALL NOT BE STEEPER THAN 12:1
 (8.33%) AND CROSS SLOPES SHALL BE A MAXIMUM OF 2.00% OR FLATTER WITH A MINIMUM SLOPE OF 1.00%. IN CASES WHERE THE RUNNING GRADE OF THE SIDEWALK WOULD REQUIRE EXCESSIVE RAMP LENGTHS OR A 12:1 CURB RAMP GRADE IS NOT FEASIBLE, THEN THE LENGTH OF THE RAMP IS NOT TO EXCEED 15 FEET.
 IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE MAXIMUM SLOPE OF THE TRANSITIONS SHALL NOT EXCEED 12:1 (8.33%).
 CURB RAMPS, TRANSITION SLOPES AND LANDINGS AT THE BOTTOM OF RAMPS SHALL BE 6 INCHES IN THICKNESS.
 TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAKS.
 CURB RAMP DETECTABLE WARNING SURFACES SHALL BE PRE-FABRICATED. CAST-IN-PLACE CONCRETE DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED ONLY WHERE A SIDEWALK CROSSES A PUBLIC STREET, INCLUDING SIGNALIZED COMMERCIAL DRIVEWAY CROSSINGS.
 LANDING AREAS AT THE BOTTOM OF DIAGONAL CURB RAMPS SHALL BE A MINIMUM DIMENSION OF 4.0' SMY 4.0' AND CONTAINED WHOLLY WITHIN THE CONFINES OF THE STRIPED CROSSWALK (IF PRESENT).

- PRESENT).



LEGEND DETECTABLE WARNING PAD (TRUNCATED DOMES)

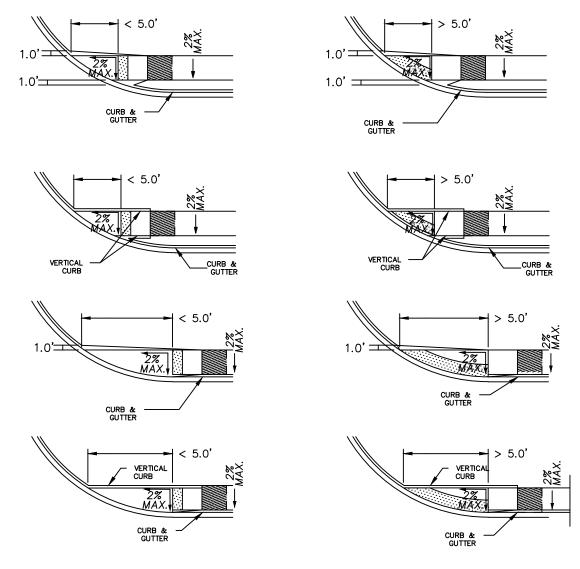
LANDING AREA (2% MAX CROSS SLOPE IN ALL DIRECTIONS)

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CURB RAMPS

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DRAWING ST-7 | SHEET 1 OF 3



LINEAR SIDEWALK CURB RAMPS

NO SCALE

NOTES:

- PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHTS OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNOBSTRUCTED PEDESTRIAN CIRCULATION PATHS TO PEDESTRIAN AREAS, ELEMENTS, AND FACILITIES IN THE PUBLIC RIGHT OF WAY AND TO ACCESSIBLE PEDESTRIAN ROUTES ON ADJACENT SITES. THE LOCATION AND RIENTATION OF CURB RAMPS SHALL BE AS SHOWN ON THE PLANS AND IN LINE WITH THE DIRECTION OF PEDESTRIAN TRAVEL AS MUCH AS POSSIBLE.

 CURB RAMP RUNNING GRADE AT UNRESTRAINED SITES SHALL NOT BE STEEPER THAN 12:1 (8.33%) AND CROSS SLOPES SHALL BE A MAXIMUM OF 2.00% OF FLATTER WITH A MINIMUM SLOPE OF 1.00%. IN CASES WHERE THE RUNNING GRADE OF THE SIDEWALK WOULD REQUIRE EXCESSIVE RAMP LENGTHS OR A 12:1 CURB RAMP GRADE IS NOT FEASIBLE, THEN THE LENGTH OF THE RAMP IS NOT TO EXCEED 15 FEET.

 IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE MAXIMUM SLOPE OF THE TRANSITION SHALL NOT EXCEED 12:1 (8.33%).

 CURB RAMPS, TRANSITION SLOPES AND LANDINGS AT THE BOTTOM OF RAMPS SHALL BE 6 INCHES IN THICKNESS.

- IHICKNESS.

 TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAKS.

 CURB RAMP DETECTABLE WARNING SURFACES SHALL BE PRE—FABRICATED. CAST—IN—PLACE CONCRETE

 DETECTABLE WARNING SURFACES WILL NOT BE ALLOWED.

 CURB RAMP DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED ONLY WHERE A SIDEWALK CROSSES A

 PUBLIC STREET, INCLUDING SIGNALIZED COMMERCIAL DRIVEWAY CROSSINGS.

 LANDING AREAS FOR LINEAR CURB RAMPS SHALL MATCH THE WIDTH OF THE SIDEWALK FOR A DIMENSION OF

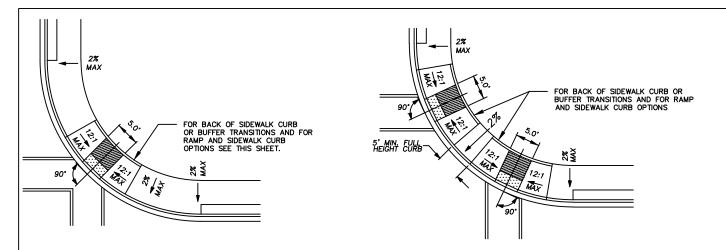


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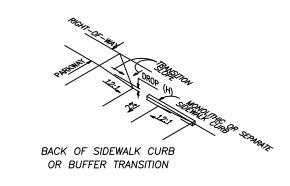
CURB RAMPS

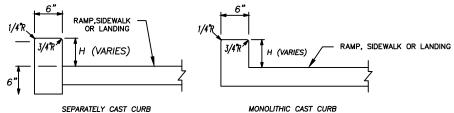
LEGEND DETECTABLE WARNING PAD (TRUNCATED DOMES) LANDING AREA (2% MAX CROSS SLOPE IN ALL DIRECTIONS)

> REVISION DATE: 6/1/15 **DRAWING ST-7** SHEET 2 OF 3



PARALLEL SIDEWALK CURB RAMPS





RAMP AND SIDEWALK CURB OPTIONS

NO SCALE

- NOTES:

 1. PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHTS OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNOBSTRUCTED PEDESTRIAN CIRCULATION PATHS TO PEDESTRIAN AREAS, ELEMENTS, AND FACILITIES IN THE PUBLIC RIGHT OF WAY AND TO ACCESSIBLE PEDESTRIAN ROUTES ON ADJACENT SITES.

 2. THE LOCATION AND ORIENTATION OF CURB RAMPS SHALL BE AS SHOWN ON THE PLANS AND IN LINE WITH THE DIRECTION OF PEDESTRIAN TRAVEL AS MUCH AS POSSIBLE.

 3. CURB RAMP RUNNING GRADE AT UNRESTRAINED SITES SHALL NOT BE STEEPER THAN 12:1 (8.33%) AND CROSS SLOPES SHALL BE A MAXIMUM OF 2.00% OR FLATTER WITH A MINIMUM SLOPE OF 1.00%. IN CASES WHERE THE RUNNING GRADE OF THE SIDEWALK WOULD REQUIRE EXCESSIVE RAMP LENGTHS OR A 12:1 CURB RAMP GRADE IS NOT FEASIBLE, THEN THE LENGTH OF THE RAMP IS NOT TO EXCEED 15 FEET.

 4. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE MAXIMUM SLOPE OF THE TRANSITIONS SHALL NOT EXCEED 12:1 (8.33%).

 5. CURB RAMPS, TRANSITION SLOPES AND LANDINGS AT THE BOTTOM OF RAMPS SHALL BE 6 INCHES IN THICKNESS.

- THICKNESS.

 TOOLED JOINTS ARE REQUIRED AT ALL SIDEWALK RAMP SLOPE BREAKS.

 CURB RAMP DETECTABLE WARNING SURFACES SHALL BE PRE-FABRICATED. CAST-IN-PLACE CONCRETE

 DETECTABLE WARNING SURFACES WILL NOT BE ALLOWED.

 CURB RAMP DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED ONLY WHERE A SIDEWALK CROSSES A

 PUBLIC STREET, INCLUDING SIGNALIZED COMMERCIAL DRIVEWAY CROSSINGS.
- LANDING AREAS FOR PARALLEL CURB RAMPS SHALL BE A MINIMUM DIMENSION OF 5.0' BY 5.0'.



LEGEND DETECTABLE WARNING PAD (TRUNCATED DOMES)

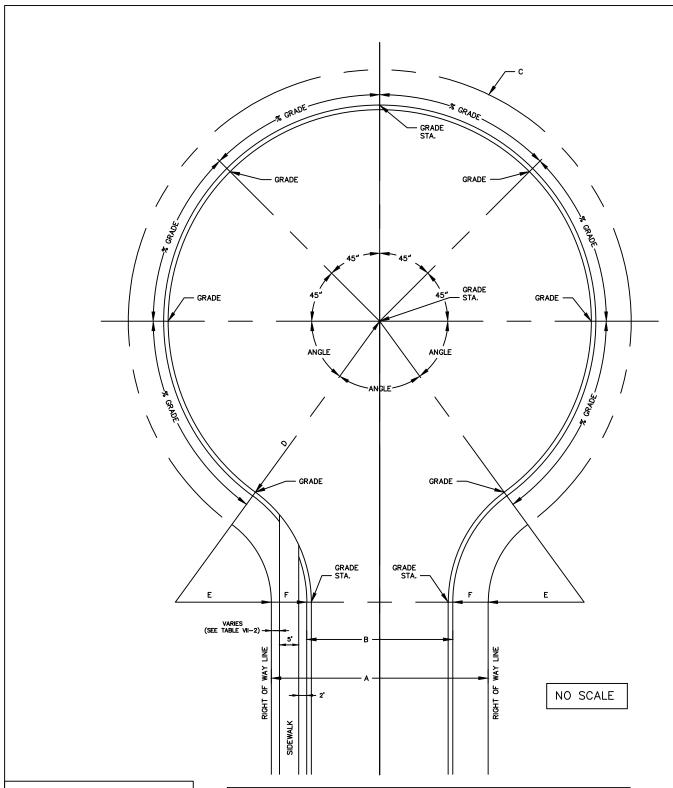
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LANDING AREA (2% MAX CROSS SLOPE IN ALL DIRECTIONS)

CURB RAMPS

DRAWING ST-7

SHEET 3 OF 3



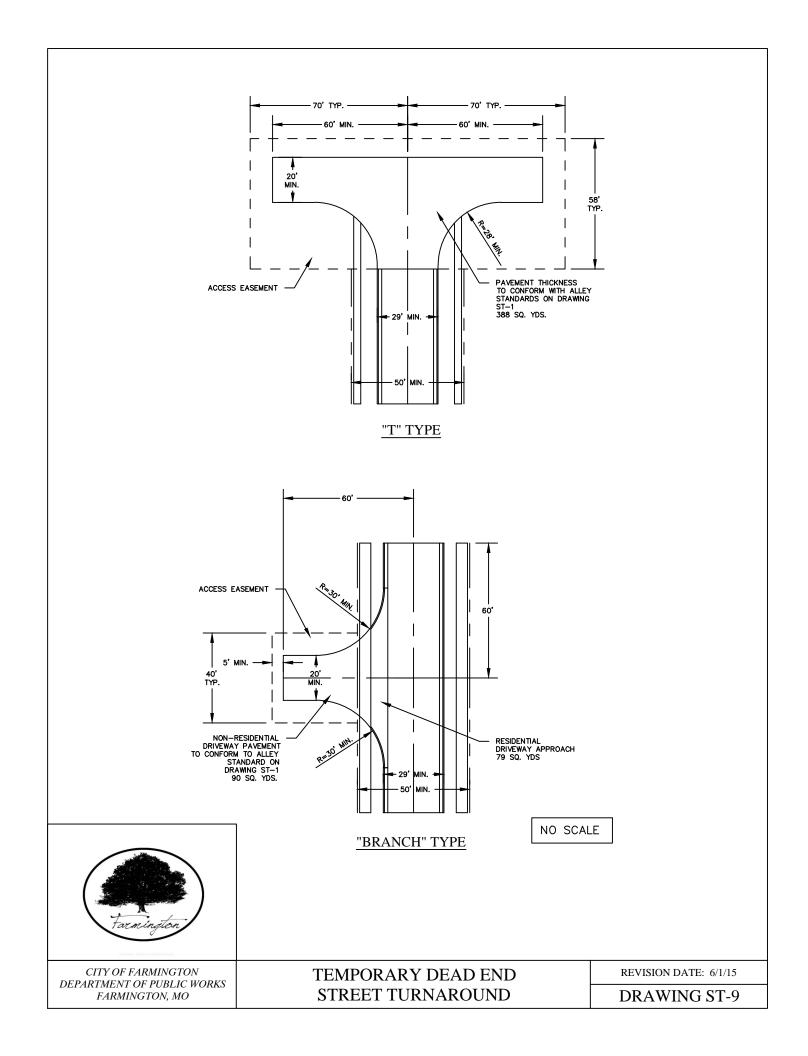


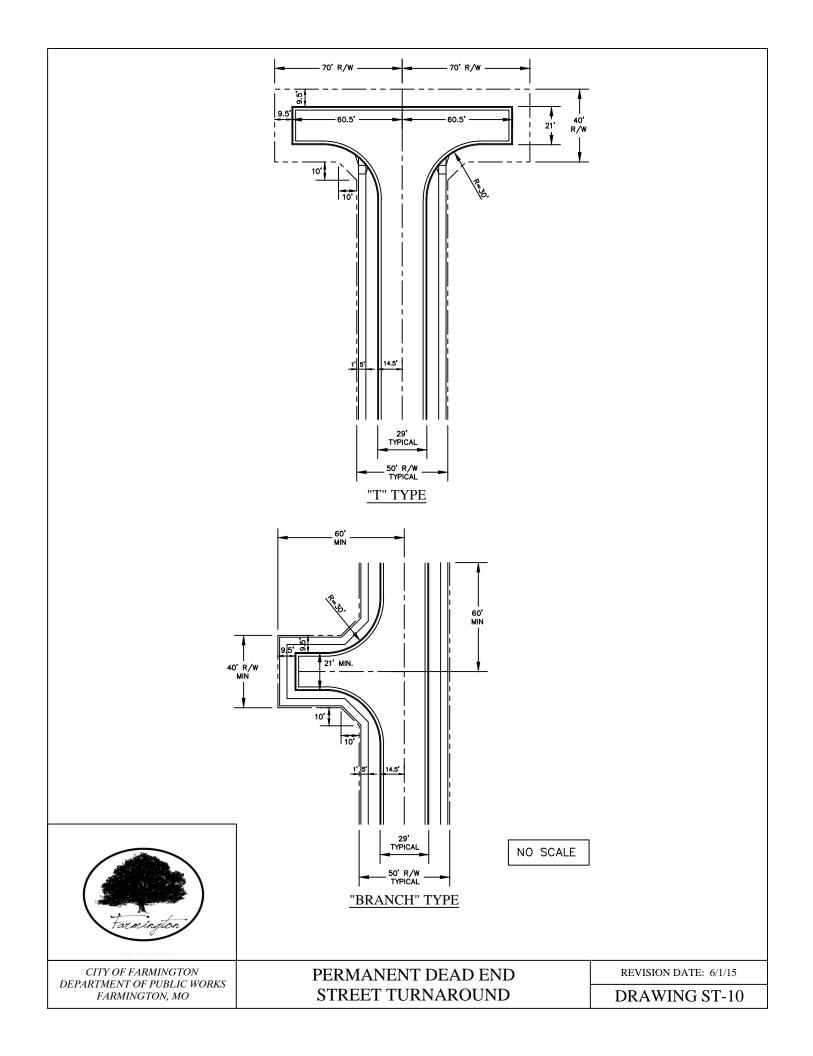
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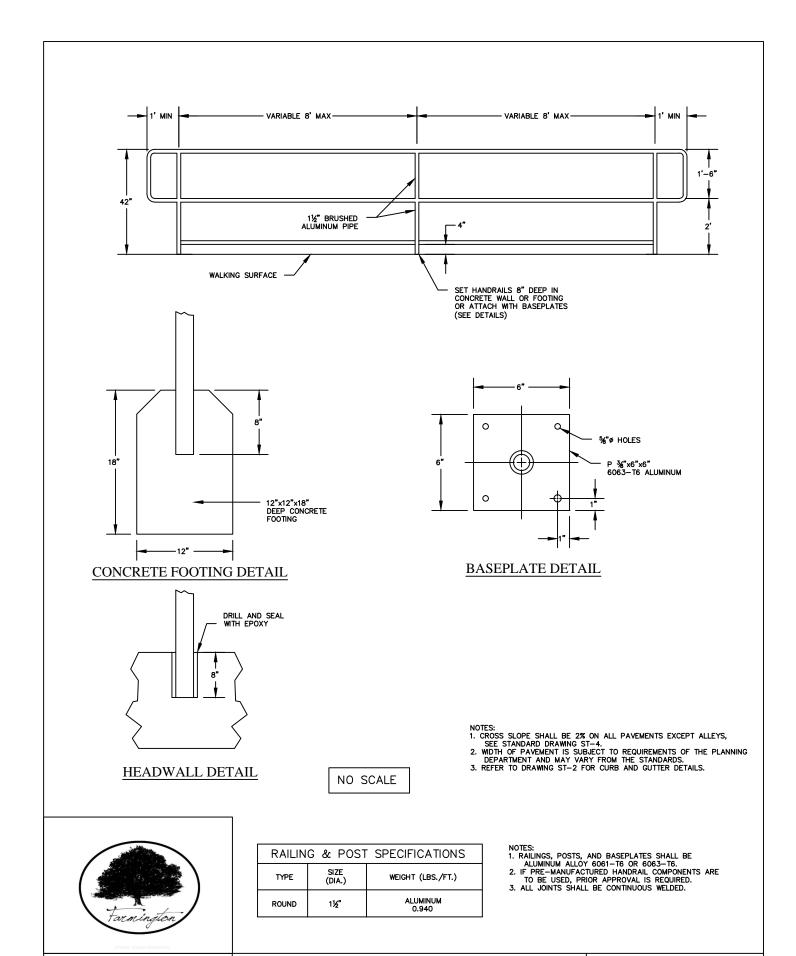
MINIMUM DIMENSIONS (FEET)						
DESCRIPTION	KEY	RESIDENTIAL	NON RESIDENTIAL			
STREET RIGHT-OF-WAY WIDTH	A	50' - 55'	50' - 65'			
STREET PAVEMENT WIDTH TO BACK OF CURB	В	29' - 38'	29' - 45'			
CUL-DE-SAC RIGHT-OF-WAY RADIUS	С	60	75			
CUL-DE-SAC PAVEMENT RADIUS TO BACK OF CURB	D	48.5	63.5			
INTERNAL CURVE, RIGHT-OF-WAY RADIUS	E	20	20			
INTERNAL CURVE, BACK OF CURB RADIUS	F	31.5	31.5			

STANDARD CUL-DE-SAC

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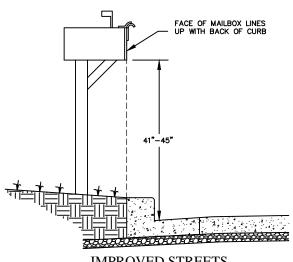




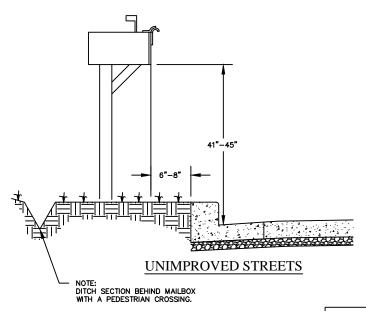
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MAILBOX REPLACEMENT

REVISION DATE: 6/1/15