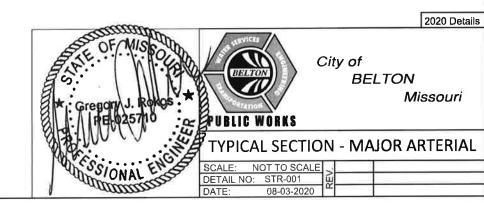
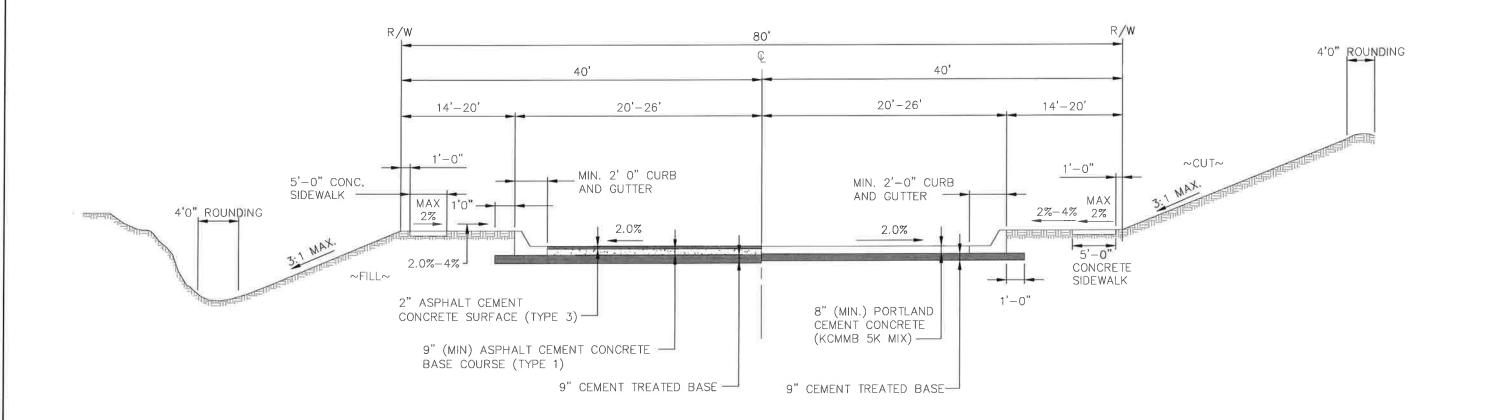


- 1. THE PAVEMENT THICKNESSES ARE RECOMMENDED MINIMUMS. THE ACTUAL PAVEMENT DESIGN THICKNESS SHOULD BE DETERMINED BY AN ENGINEERING ANALYSIS OF THE TRAFFIC AND LOCAL SUBGRADE CONDITIONS. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PAVEMENT THICKNESS IF CONDITIONS WARRANT.
- 2. OTHER PAVEMENT, SUBGRADE, AND SUBBASE TYPE OPTIONS MAY BE CONSIDERED IF SUBMITTED TO THE CITY OF BELTON FOR APPROVAL ALONG WITH AN ENGINEERING ANALYSIS AND/OR GEOTECHNICAL REPORT.
- 3. WHERE CURB AND GUTTER IS MONOLITHIC WITH THE STREET, THE CURB SHALL BE POURED AT THE SAME DEPTH AS THE STREET.
- 4. UNLESS SPECIFIED OTHERWISE, KCMMB 4K OR HIGHER IS REQUIRED FOR ALL CONCRETE.

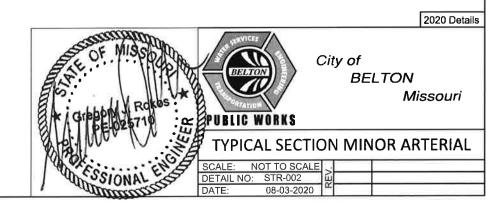
TYPICAL ROADWAY SECTION MAJOR ARTERIAL

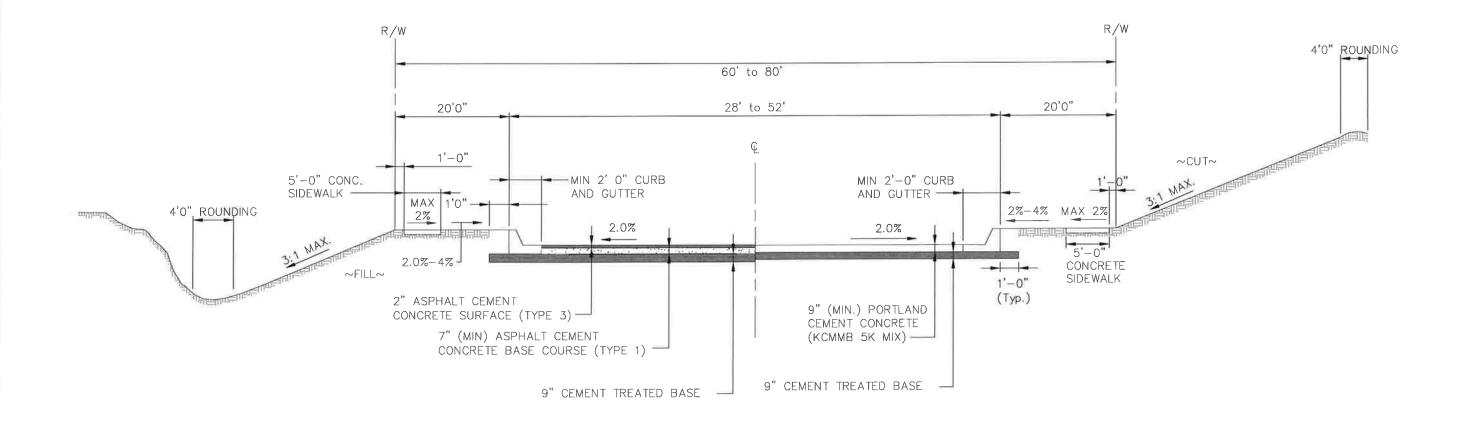




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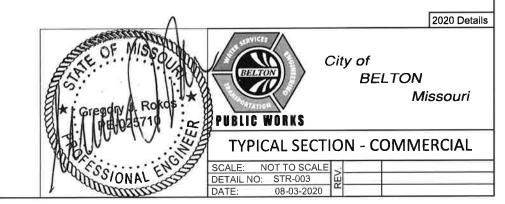
TYPICAL ROADWAY SECTION MINOR ARTERIAL (3 OR 4 LANES)

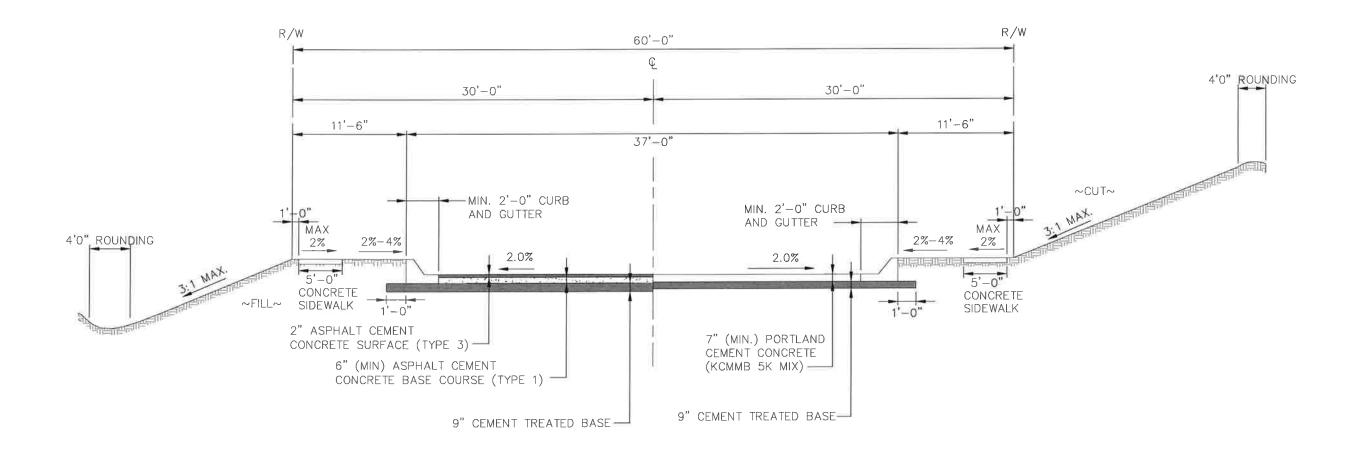




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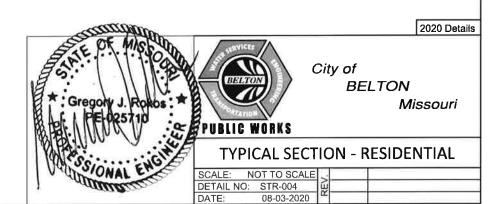
TYPICAL ROADWAY SECTION - INDUSTRIAL/COMMERCIAL COLLECTOR STREET (2 TO 4 LANES)

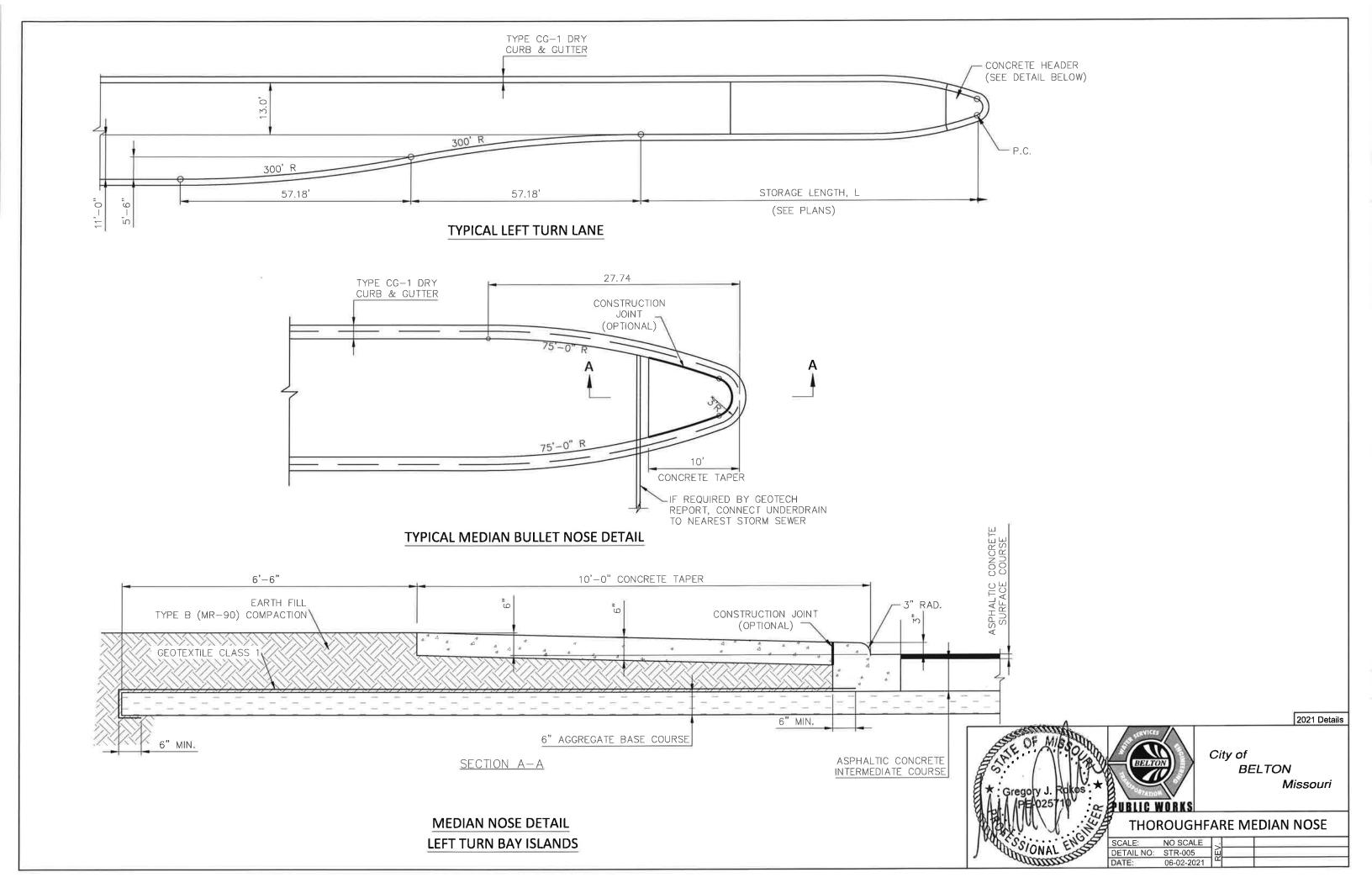


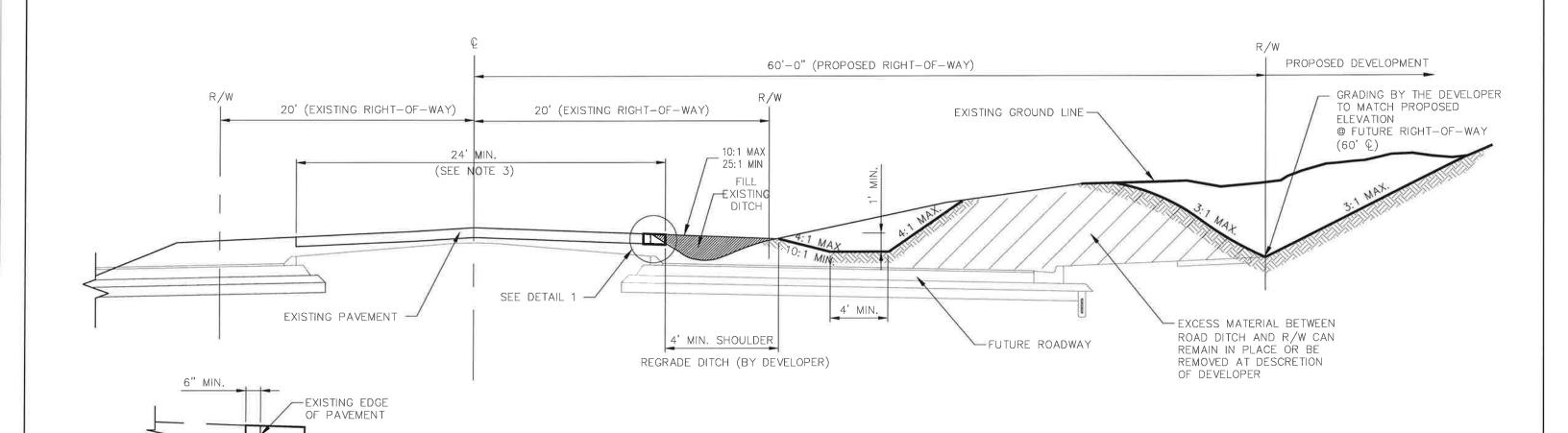


- 1. THE PAVEMENT THICKNESSES ARE RECOMMENDED MINIMUMS. THE ACTUAL PAVEMENT DESIGN THICKNESS SHOULD BE DETERMINED BY AN ENGINEERING ANALYSIS OF THE TRAFFIC AND LOCAL SUBGRADE CONDITIONS. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PAVEMENT THICKNESS IF CONDITIONS WARRANT.
- 2. OTHER PAVEMENT, SUBGRADE, AND SUBBASE TYPE OPTIONS MAY BE CONSIDERED IF SUBMITTED TO THE CITY OF BELTON FOR APPROVAL ALONG WITH AN ENGINEERING ANALYSIS AND/OR GEOTECHNICAL REPORT.
- 3. WHERE CURB AND GUTTER IS MONOLITHIC WITH THE STREET, THE CURB SHALL BE POURED AT THE SAME DEPTH AS THE STREET.
- 4. UNLESS SPECIFIED OTHERWISE, KCMMB 4K OR HIGHER IS REQUIRED FOR ALL CONCRETE.

TYPICAL ROADWAY SECTION - RESIDENTIAL COLLECTOR (3 LANES)







GRADING ALONG PLATTED SUBDIVISION

ADJACENT TO UNIMPROVED THOROUGHFARE

(CUT SECTION)

NOTES:

FULL DEPTH

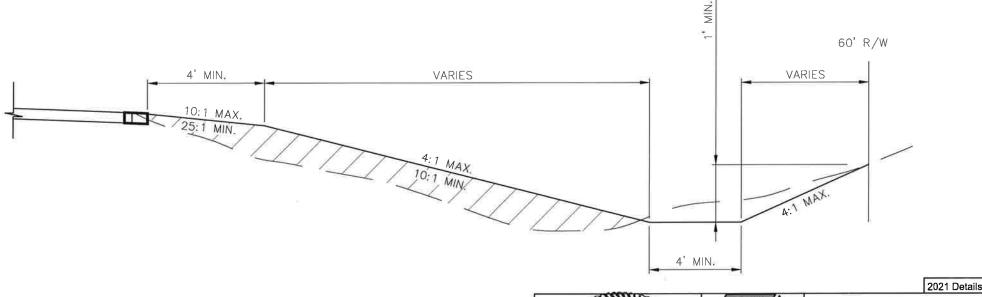
SAWCUT

1. IN ACCORDANCE WITH OPMC CHAPTER 18,460,260. IF THE EXISTING PAVEMENT IS IRREGULAR, EXCESSIVLY DETERIORATED, OR CONSTRUCTED OF MATERIAL OTHER THAN ASPHALTIC CONCRETE, THE ENTIRE STREET SECTION SHALL BE OVERLAYED WITH 3 INCHES OF ASPHALTIC CONCRETE INTERMEDIATE COURSE (SURFACE). OVERLAY THICKNESS OF LESS THAN 3 INCHES MAY BE INSTALLED AS DETERMINED BY THE CITY ENGINEER.

2' MIN. WIDENING

DETAIL 1

- 2. IF THE EXISTING PAVEMENT SECTION IS LESS THAN 22 FEET IN WIDTH, THE PAVEMENT SHALL BE WIDENED FOR A MINIMUM OF 2 FEET TO A MINIMUM WIDTH OF 24 FÉET.
- 3. ANY CROSS ROAD PIPES, DRIVEWAY OR STREET CULVERTS, AND OTHER CLEAR ZONE OBSTRUCTIONS ON THE WIDENED SIDE OF THE ROADWAY SHALL BE MODIFIED AS NECESSARY TO MEET THE REQUIREMENTS OF THE ROADSIDE DESIGN GUIDE. IF THIS IS NOT PRACTICAL, INSTALLATION OF GUARDRAILS MAY BE REQUIRED AS DETERMINED BY THE CITY ENGINEER.
- 4. SHOULDERS FOR THE WIDENED SECTION SHALL MATCH THE EXISTING SHOULDER MATERIALS WITHIN THE PROJECT LIMITS.
- 5. DITCH SECTIONS SHALL BE DESIGNED TO CARRY THE 10-YEAR DESIGN FLOW.
- THE CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE PUBLIC STREET RIGHT-OF-WAY ADJACENT TO DEVELOPED PROPERTY. THE CONTRACTOR SHALL SOD OR SEED AND MULCH ALL DISTURBED AREAS WITHIN OR OUTSIDE OF THE PUBLIC STREET RIGHT-OF-WAY ADJACENT TO UNDEVELOPED PROPERTY.



FILL SECTION SHOULDER IMPROVEMENTS

PUBLIC WORKS WINDOWAL ENGINEE SIONAL EN

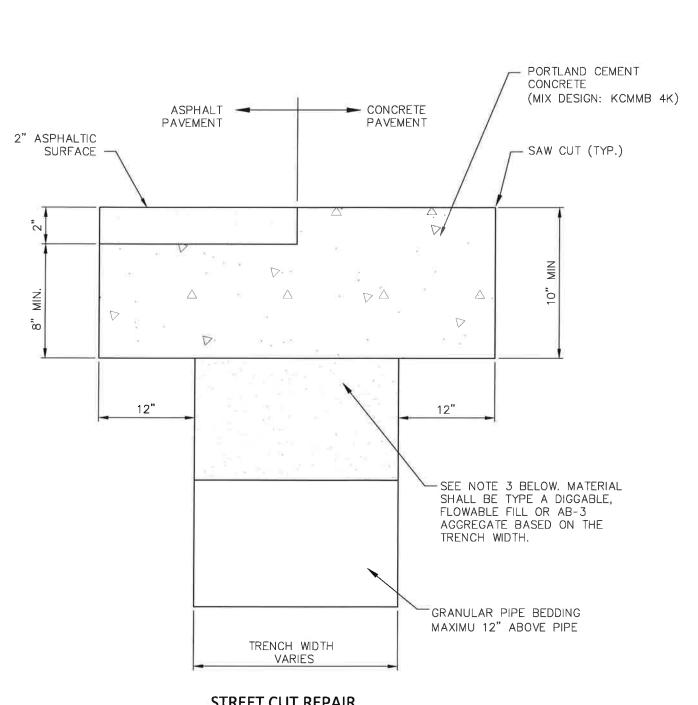
City of **BELTON**

UNIMPROVED THOROUGHFARE GRADING

Missouri

NO SCALE DETAIL NO: STR-006

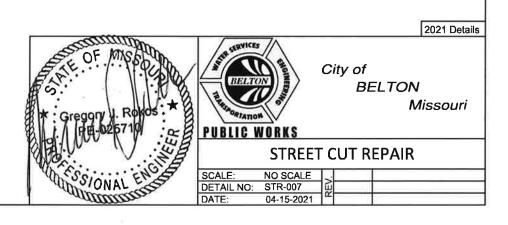
06-02-2021

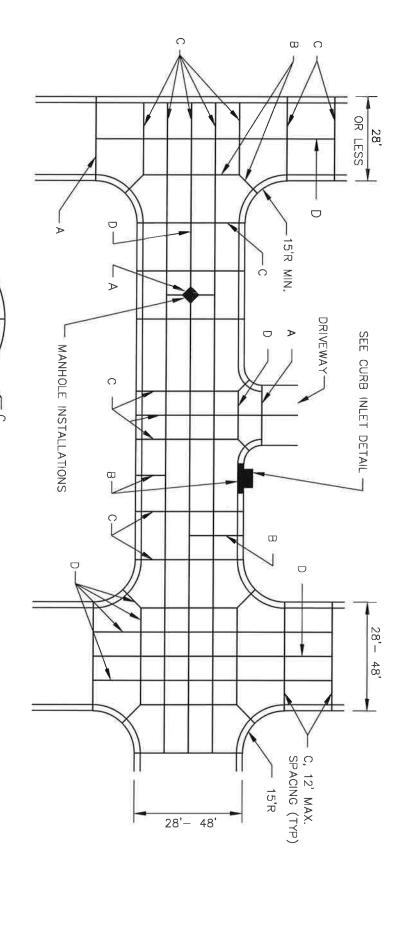


STREET CUT REPAIR

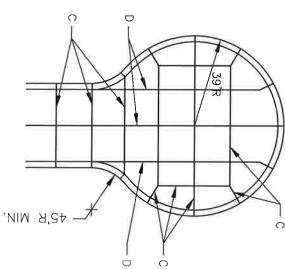
NOTES:

- ASPHALT PAVEMENT PORTLAND CEMENT CONCRETE TO BE 8" MIN. DEPTH OR MATCH EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER.
- CONCRETE PAVEMENT PORTLAND 2. CEMENT CONCRETE TO BE 10" MIN. DEPTH OR MATCH EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER.
- IF THE TRENCH WIDTH IS LESS THAN 3. 24-INCHES, IT SHALL BE BACKFILLED WITH FLOWABLE FILL. FLOWABLE FILL MIX DESIGN TO BE APPROVED BY THE CITY PRIOR TO PLACEMENT.





P.C.C. PAVEMENT SPECIAL DETAILS

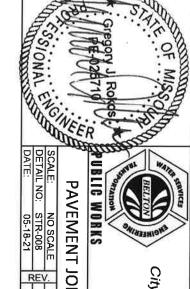


LEGEND

A = EXPANSION JOINT
B = TRANSVERSE CONSTRUCTION JOINT
C = SAWED TRANSVERSE JOINT
D = LONGITUDINAL METAL CONSTRUCTION JOINT

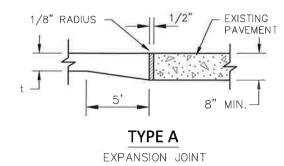
SEE PAVEMENT JOINT DETAILS

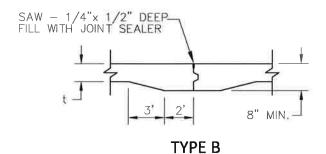
2021 Details



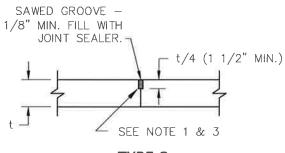
BELTON Missouri

PAVEMENT JOINT LOCATIONS

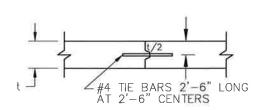




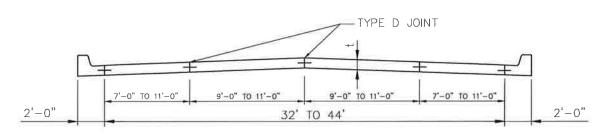
TRANSVERSE CONSTRUCTION JOINT



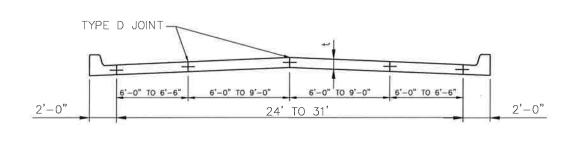
TYPE C SAWED TRANSVERSE JOINT



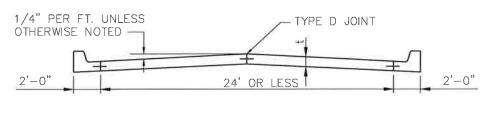
TYPE D
LONGITUDINAL METAL
CONSTRUCTION JOINT



SECTION 36' TO 48' WIDE

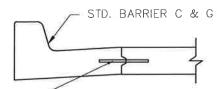


SECTION 28' TO 35' WIDE



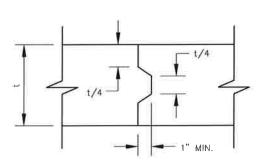
SECTION 28' OR LESS

P.C.C. PAVEMENT SPECIAL SECTIONS



WITH KEYWAY INSTALL #4 TIE BARS 2'-6" LONG AT 2"-6" CENTERS.
WITHOUT KEYWAY INSTALL #4 TIE BARS 2'-6" LONG AT 1'-6" CENTERS.

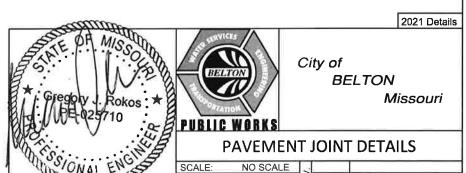
CURB DETAIL



TYPICAL KEYWAY DETAIL

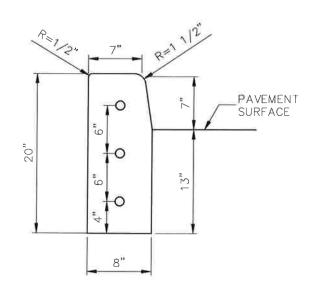
NOTES:

- 1. FILL ALL SAWED JOINTS WITH APPROVED SEALANT.
- 2. FOR MANHOLE INSTALLATIONS
 CONSTRUCT 4' x 4' x (t + 2")
 PCC PAD AT A 45 DEGREE
 ANGLE TO JOINTS.
- 3. CONSTRUCT CONTRACTION JOINTS AT 12' MAX. INTERVALS.
- 4. t = PAVEMENT THICKNESS, SEE TYPICAL STREET SECTIONS



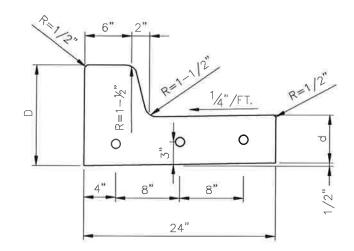
DETAIL NO: STR-009

06-02-2021



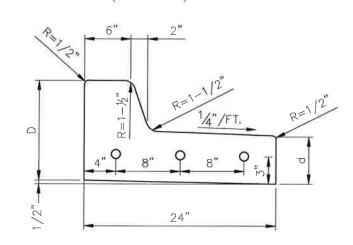
STRAIGHT CURB

(TYPE C-1)



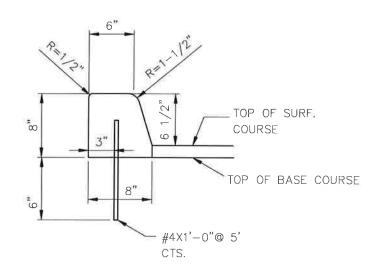
STRAIGHT BACK CURB & GUTTER

(TYPE CG-1)



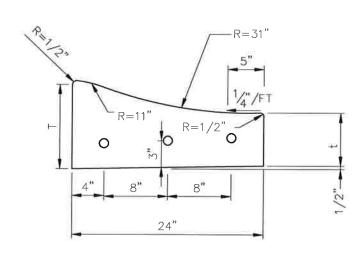
STRAIGHT BACK DRY CURB & GUTTER

(TYPE CG-1 DRY)

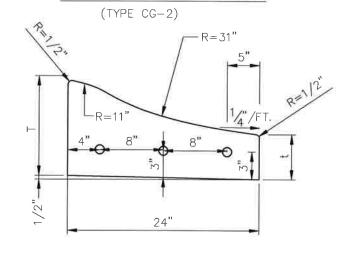


DOWELLED CURB

(TYPE DC)



ROLL BACK CURB & GUTTER

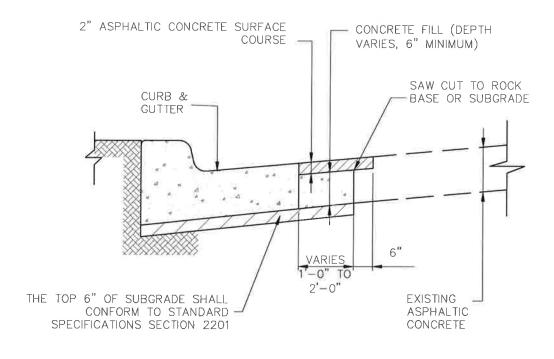


ROLL BACK DRY CURB & GUTTER

(TYPE CG-2 DRY)

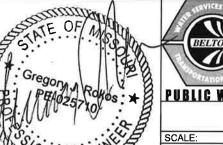
GENERAL NOTES:

- 1. 34" PREFORMED EXPANSION JOINTS WITH 3-#4 X 2' SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' MAXIMUM INTERVALS: THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 2. 2" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- 3. FIX DOWEL BARS WITH BAR SUPPORTS.
- 4. DEPTH OF CURB SHALL BE A MINIMUM OF 8" THROUGH THE HANDICAP ACCESS RAMP.
- 5. CONCRETE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION
- 6. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.



	t	t is equal to the depth of pavement.
	T	T is equal to the depth of pavement (t) + 4".
1	d	d is equal to the depth of pavement.
	D	D is equal to the depth of pavement (d) + 6".

CURB REPLACEMENT DETAIL



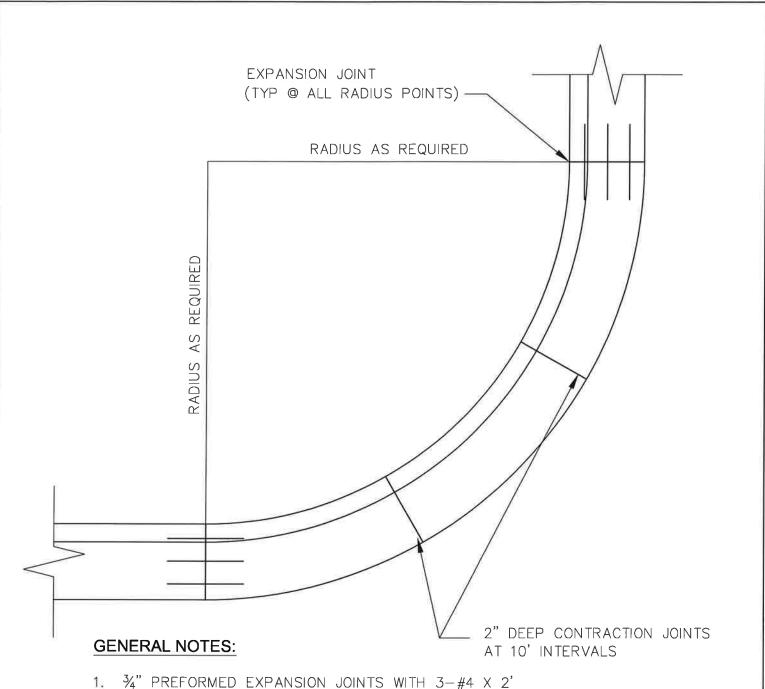
PUBLIC WORKS

City of **BELTON** Missouri

2021 Details

CURB DETAILS

SCALE:	NO SCALE	L		
DETAIL NO:	STR-010			
DATE:	06-02-2021	72		



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PLAN VIEW

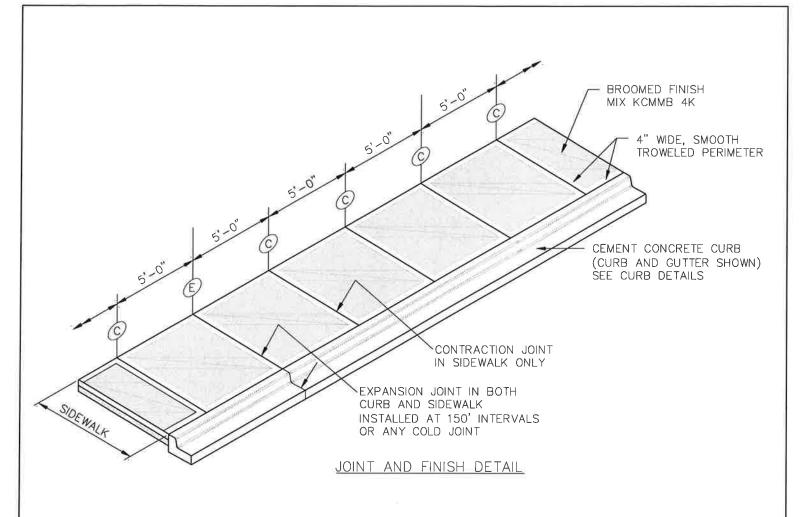
EXPANSION JOINT LOCATION

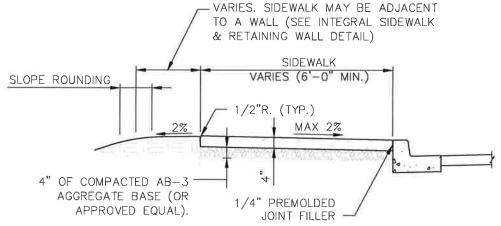
Gregory J. Rokos

City of
BELTON
Missouri

CURB EXPANSION JOINTS

SCALE: NO SCALE
DETAIL NO: STR-011
DATE: 05-18-21

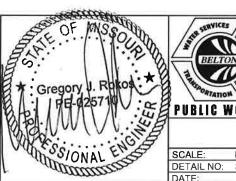




- 1. ALL SIDEWALK THAT ABUTS TO THE BACK OR SIDE OF A STORM STRUCTURE SHALL BE CONNECTED TO THE BACK AND/OR SIDE WITH A MINIMUM OF THREE DOWELS NOT LESS THAN SIX (6") INCHES LONG WITH PLACEMENT EVERY 16 (16") INCHES AT A MINIMUM.
- 2. ALL SIDEWALK ABUTTING CURB SHALL BE NO LESS THAN 6 (6') FEET WIDE.
- 3. ½" EXPANSION JOIN WITH 3 #4 SMOOTH DOWELS AND EXPANSION TUBES SHALL BE INSTALLED AT BOTH SIDES OF DRIVE APPROACH AND PROPERTY LINES.

CEMENT CONCRETE SIDEWALK ADJACENT TO CURB

TYPICAL SIDEWALK



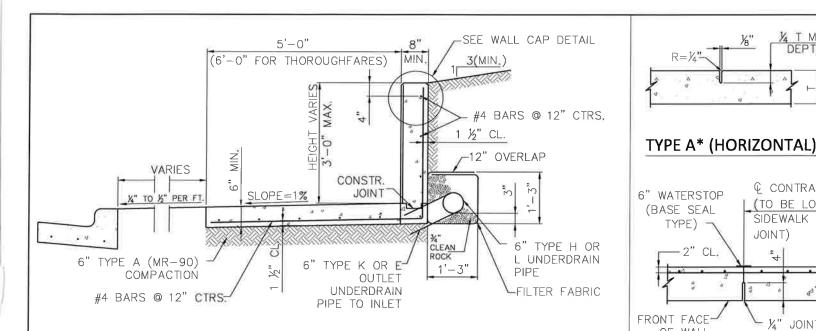
2021 Details

City of **BELTON** Missouri

PUBLIC WORKS

TYPICAL SIDEWALK

SCALE:	NO SCALE	Į.	5-20-21		
DETAIL NO:	STR-012]			
DATE:	05-18-21	74			



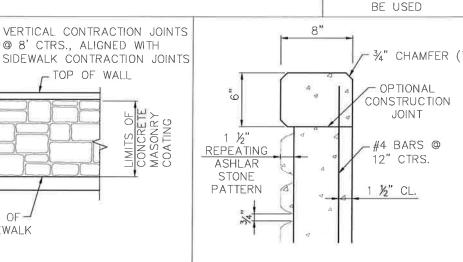
INTEGRAL SIDEWALK AND RETAINING WALL WITH UNDERDRAIN

TOP OF

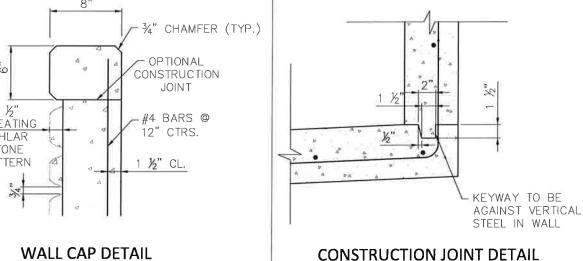
ELEVATION

SIDEWALK

.9







A T MIN.

© CONTRADICTION JOINT

(TO BE LOCATED AT EACH

SIDEWALK CONSTRUCTION

JOINT)

VERTICAL CONTRACTION

JOINT DETAIL

JOINTS AS APPROVED BY

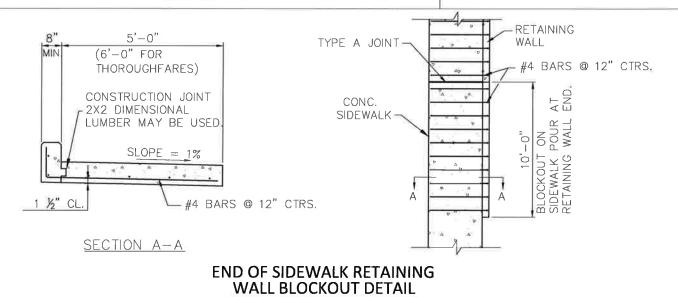
THE CITY ENGINEER SHALL

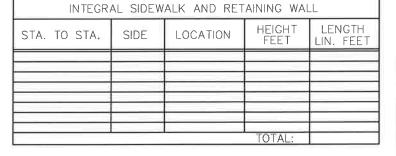
NOTE: PREFORMED CONTRACTION

TYPE)

OF WALL

CL







24" DOWEL

(SEE NOTE 10)

© EXPANSION JOINT

½" NON-EXTRUDING

FILLER

VERTICAL EXPANSION JOINT DETAIL

NOTE: VERTICAL EXPANSION

JOINTS REQUIRED EVERY 100'

が"NON-EXTRUDING

FILLER

TYPE B** (HORIZONTAL)

PVC PLASTIC

WATERSTOP

FRONT FACE

JOINT DETAILS

OF WALL

- GENERAL:

 1. ROCK BACKFILL AND TOPSOIL PLACEMENT SHALL BE CONSIDERED SUBSIDIARY
 TO INTEGRAL SIDEWALK AND RETAINING WALL CONSTRUCTION,
- DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER PRIOR TO CONSTRUCTION.

 3. SEE PLANVIEW FOR UNDERDRAIN OR WEEPHOLE LOCATIONS.

- CONCRETE:
 4. CONCRETE USED IN THIS WORK SHALL BE KCMMB4K, AS APPROVED BY THE KANSAS CITY METROPOLITAN MATERIALS BOARD,
- ALL EXPOSED WALL FACES SHALL BE HAND FINISHED WITH AN APPROVED GROUT WHILE THE WALL IS GREEN. FORM MARKS SHALL BE REMOVED PRIOR TO
- 6. ALL FORM TIES SHALL BE RECESSED TYPE.

- * TYPE A JOINT SPACING SHALL BE 8',
- ** WHERE WALK ABUTS JUNCTION OF EXISTING WALK, CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND 100' CENTERS MAXIMUM;
- 9. TYPE B HORIZONTAL EXPANSION JOINTS SHALL HAVE 5/8" SMOOTH DOWEL
- ASSEMBLIES WITH GREASED CAPS @ 12" CTRS. MAX.
- 10 KEY ALL CONSTRUCTION JOINTS.

REINFORCING STEEL

- 11. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
- 12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE, TOLERANCE OF ± -1 8" SHALL BE PERMITTED.

 13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN
- LENGTH.
- 14. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE, STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE,
- 15. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.

UNDERDRAIN CONSTRUCTION:

- 16. STOP UNDERDRAIN AT ENDS OF SIDEWALK / RW.
- 17. PROPOSED UNDERDRAIN PIPE LAYOUT, FLOWLINE ELEVATIONS, INLET CONNECTION POINTS, AND DETAILS SHALL BE APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MATERIAL TESTS AS REQUIRED FOR APPROVAL BY THE CITY ENGINEER.
- 18. ALL UNDERDRAIN OUTLET PIPES SHALL BE TYPE K OR E WITH WATERTIGHT JOINTS, ALL OUTLET PIPES SHALL BE TIED INTO THE NEAREST STORM SEWER INLET AS APPROVED
- 19. ALL UNDERDRAIN PIPES, TYPE H OR L, SHALL BE INSTALLED AT A MINIMUM
- 20. ALL FILTER FABRIC USED FOR PIPE UNDERDRAIN CONSTRUCTION SHALL MEET THE REQUIREMENTS OF AASHTO M288 CLASS A OR APPROVED EQUAL.

MATERIALS:

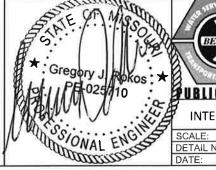
- 21. FORM LINER PATTERN SHALL BE SYMONS CORPORATION "SOUTHWEST ASHLAR STONE" OR APPROVED EQUAL,
- 22. PRIOR TO THE RETAINING WALL CONSTRUCTION, SUBMIT TO THE CITY ENGINEER A TEST PANEL (8'X6'X8") THAT EXHIBITS THE TEXTURE, COLOR AND UNIFORMITY OF FINISH.
- 23 PLACE FORM LINER SUCH THAT SIMULATED MORTAR JOINTS ARE HORIZONTAL (LEVEL) AND VERTICAL (PLUMP).
- 24 PENETRATING STAIN SHALL BE SHERWIN WILLIAMS H&C SHIELD PLUS ULTRA ACRYLIC CONCRETE STAIN OR APPROVED EQUAL.

FEDERAL STANDARD 595B (* NOTE EXCEPTION) LIMESTONE COLOR SHADES SHALL BE USED AS LISTED BELOW

ORANGE - #30257 BASIC LIMESTONE - #33510 DARK GRAY - #30318 YELLOW - #33448 GRAY JOINT" - #36440

(*) #SW 6151 (SHERWIN-WILLIAMS "QUIVER TAN")

2021 Details

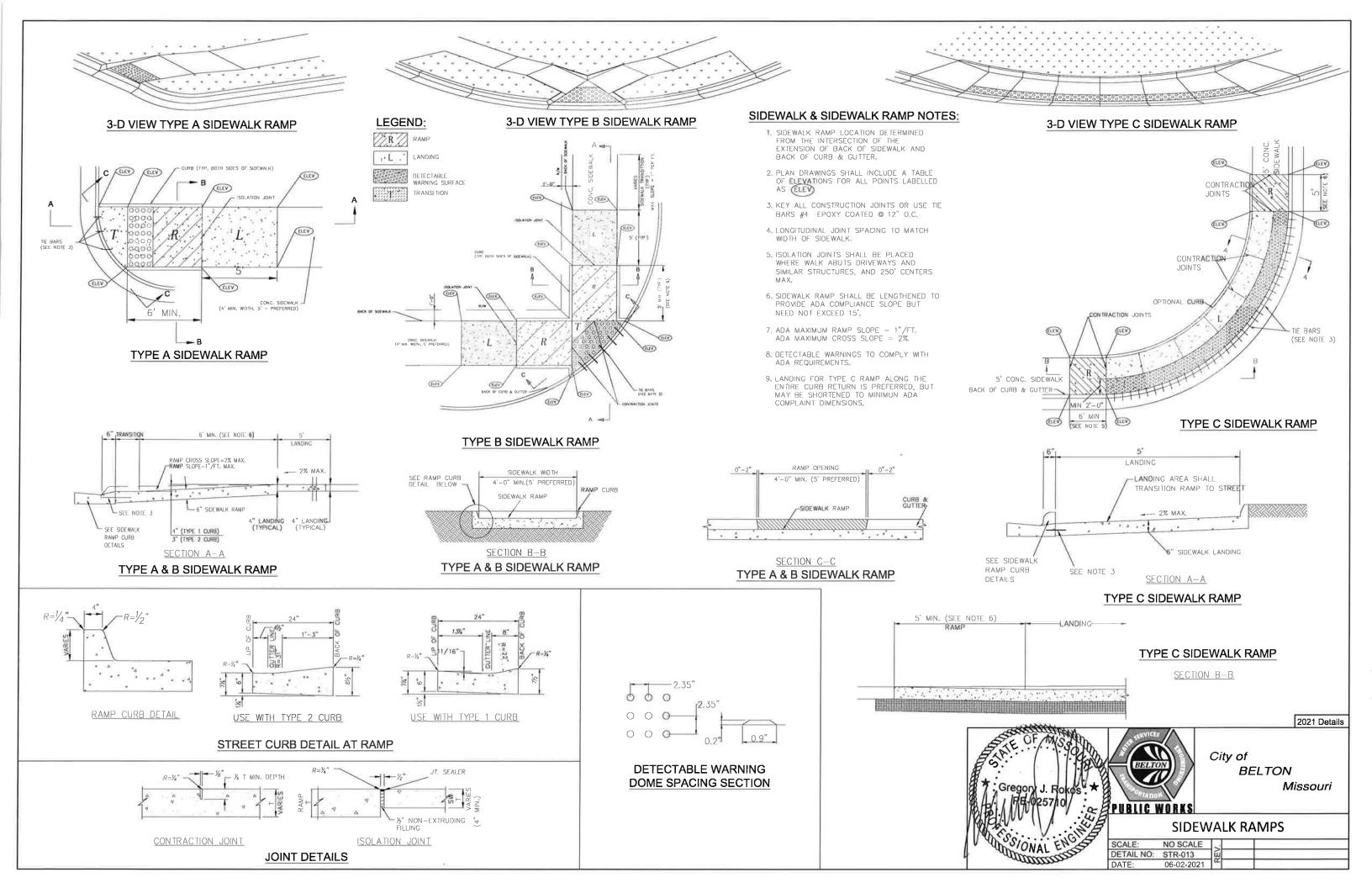


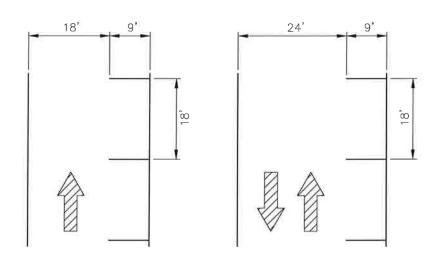
PUBLIC WORK

City of **BELTON** Missouri

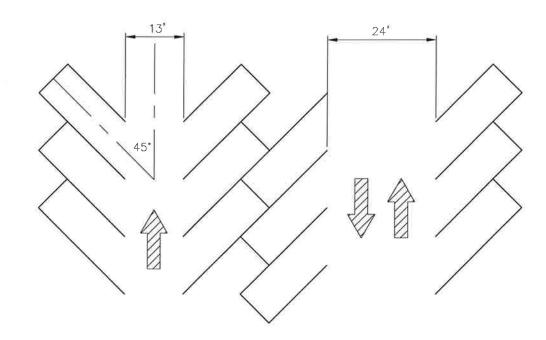
INTERGRAL SIDEWALK AND RETAINING WALL

NO SCALE DETAIL NO: STR-014

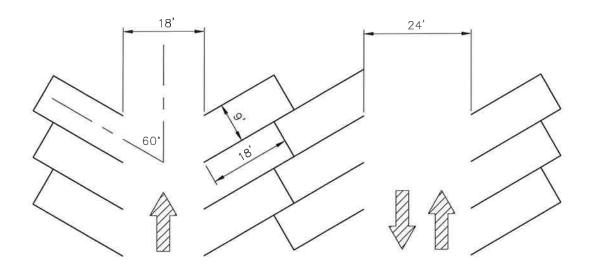




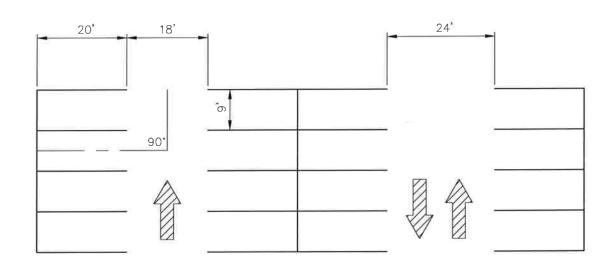
PARALLEL PARKING



45-DEGREE PARKING



60-DEGREE PARKING

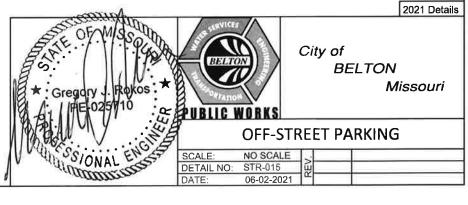


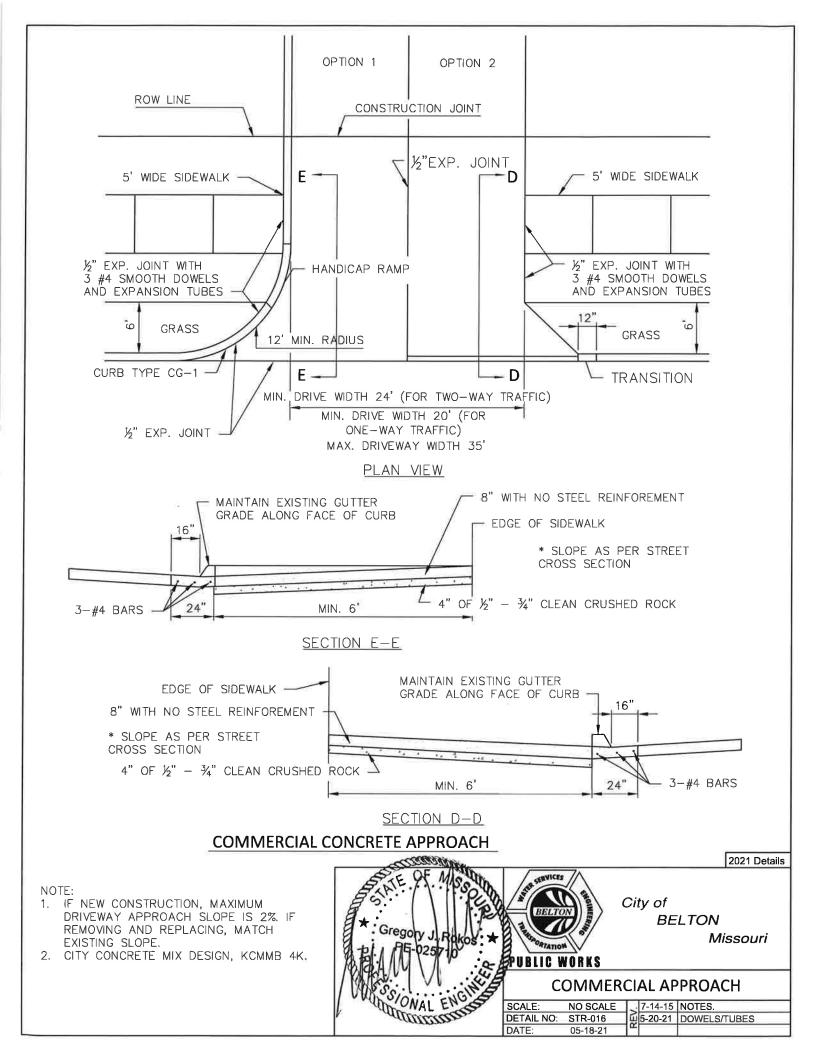
90-DEGREE PARKING

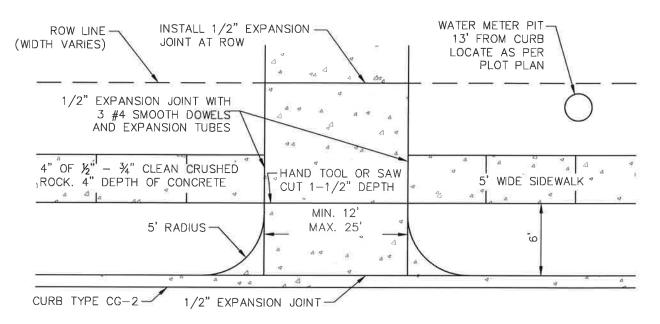
NOTES:

- 1. OFF-STREET PARKING AREAS MUST COMPLY WITH DIMENSIONS SHOWN IN PARKING DIMENSIONS TABLE ON THIS SHEET.
- 2. EACH OFF-STREET PARKING SPACE MUST OPEN DIRECTLY ONTO AN AISLE THAT COMPLIES WITH THE AISLE WIDTH SPECIFIED IN THIS DETAIL.
- 3. ALL OFF—STREET PARKING AREAS ARE REQUIRED TO HAVE CONCRETE CURB AND GUTTER.
- 4. ALL REQUIRED OFF-STREET PARKING AND LOADING AREAS SHALL BE SURFACED WITH A PERMANENT MATERIAL SUCH AS ASPHALT, CONCRETE, PAVING BLOCKS, OR OTHER APPROVED MATERIAL MEETING THE STANDARDS OF THE CITY.
- 5. ALL PEDESTRIAN ACCESS TO PARKING SHALL MEET ADA STANDARDS.

PARKING DIMENSIONS TABLE						
DIMENSIONS (IN FEET)	PARALLEL	45-DEGREE	60-DEGREE	90-DEGREE		
MINIMUM SPACE WIDTH	9	9	9	9		
MINIMUM SPACE LENGTH	20	18	18	20		
MINIMUM ONE-WAY AISLE WIDTH	20	20	20	20		
MINIMUM TWO-WAY AISLE WIDTH	24	24	24	24		

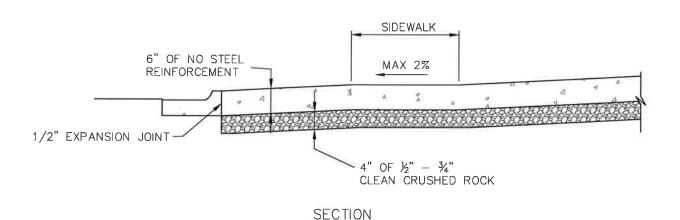






1/2' SLOPE FROM BACK OF CURB TO ROW LINE

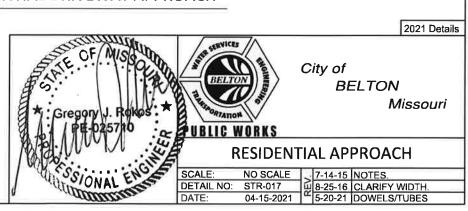
PLAN

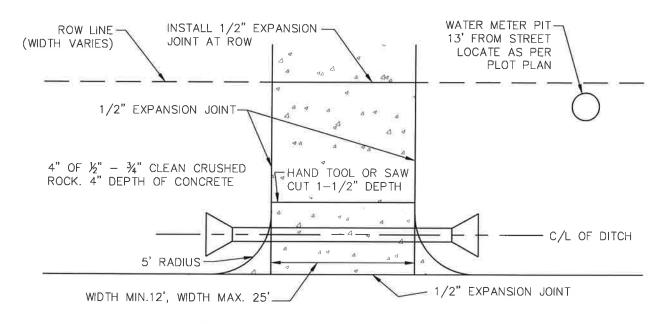


RESIDENTIAL DRIVEWAY APPROACH

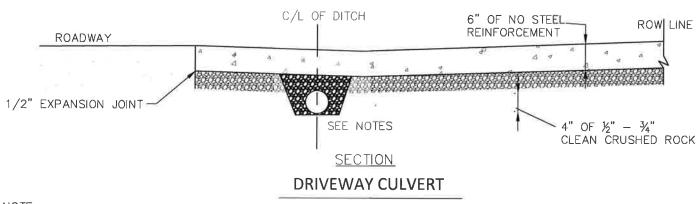
NOTE:

- IF NEW CONSTRUCTION, MAXIMUM DRIVEWAY APPROACH SLOPE IS 2%. IF REMOVING AND REPLACING, MATCH EXISTING SLOPE.
- CITY CONCRETE MIX DESIGN SHALL BE KCMMB 4K.



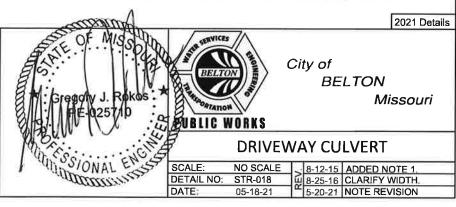


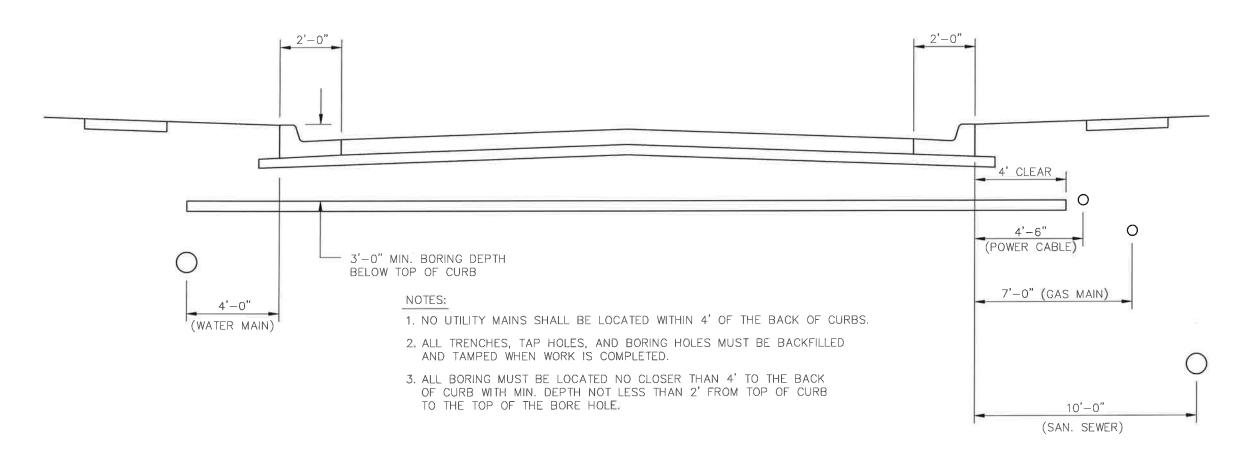
1/2' SLOPE FROM STREET TO ROW LINE PLAN



NOTE:

- 1. A RIGHT-OF-WAY PERMIT MUST BE OBTAINED FROM THE CITY'S ENGINEERING DIVISION IF COMPLETING WORK WITHIN THE CITY'S RIGHT-OF-WAY.
- 2. IF NEW CONSTRUCTION, MAXIMUM DRIVEWAY APPROACH SLOPE IS 2%. IF REMOVING AND REPLACING, MATCH EXISTING SLOPE.
- 3. CITY CONCRETE MIX DESIGN SHALL BE KCMMB 4K.
- 4. THE MINIMUM SIZE OF THE STORM DRAINAGE PIPE SHALL BE 12 INCHES IN DIAMETER AND AS DIRECTED BY CITY ENGINEER OR DESIGNEE.
- 5. DRAINAGE PIPE SHALL BE EITHER HDPE FOR RESIDENTIAL OR CLASS III RCP FOR COMMERCIAL
- 6. PIPE SHALL BE OF LENGTH THAT THE SIDE SLOPE FROM THE EDGE OF THE DRIVE TO THE DITCH LINE CAN BE MAINTAINED ON A THREE TO ONE RATIO.
- 7. FLARED END SECTIONS OR HEADWALLS MANUFACTURED FOR SUCH PURPOSE AND APPROVED BY THE CITY ENGINEER SHALL BE INSTALLED ON THE ENDS OF DRIVEWAY STORM DRAINAGE PIPES.
- 8. THE PIPE SHALL EXTEND NO MORE THAN 5 FEET BEYOND THE DRIVE OPENINGS IN ADDITION TO THE FLARED END SECTIONS.
- 9. THERE SHALL BE MAINTAINED A MINIMUM OF 6 INCHES OF FILL OVER THE TOP OF THE DRAINAGE PIPE.





STANDARD UTILITY LOCATION DETAIL

