<u>GENERAL:</u>

1. LAWRENCE, KANSAS MUNICIPAL CODE AND DESIGN CRITERIA, ARE INCORPORATED, EXCEPT AS OTHERWISE NOTED.

- 2. ROCK BACKFILL AND TOPSOIL PLACEMENT SHALL BE CONSIDERED SUBSIDIARY TO INTEGRAL SIDEWALK
- AND RETAINING WALL CONSTRUCTION. 3. 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.

METROPOLITAN MATERIALS BOARD, AND SHALL MEET THE REQUIREMENTS OF THE CITY OF LAWRENCE,

5. CONCRETE USED IN THIS WORK SHALL BE KCMMB4K, AS APPROVED BY THE KANSAS CITY

6. ALL EXPOSED WALL FACES SHALL BE BE HAND FINISHED WITH AN APPROVED GROUT WHILE THE WALL IS GREEN. FORM MARKS SHALL BE REMOVED PRIOR TO FINISHING WALL.

9. **TYPE B JOINT SHALL BE CONSTRUCTED WHERE WALK ABUTS JUNCTION OF EXISTING WALK, CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND @ 100' CENTERS MAXIMUM. IT

10. ***DOWELED CONSTRUCTION JOINT WITH WATERSTOP SHALL BE INSTALLED AT THE LOCATIONS WHERE

12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF \pm %" SHALL BE

14. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT

15. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0"

16. CONTRACTOR SHALL FURNISH AND INSTALL EITHER WEEP HOLES OR UNDERDRAIN AS INDICATED IN THE PLANS OR SPECIFICATIONS.

18. PROPOSED UNDERDRAIN PIPE LAYOUT, FLOWLINE ELEVATIONS, INLET CONNECTION POINTS, AND DETAILS SHALL BE APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT SHOP

19. ALL UNDERDRAIN OUTLET PIPES SHALL BE TYPE K WITH WATERTIGHT JOINTS. ALL OUTLET PIPES SHALL BE TIED INTO THE NEAREST STORM SEWER INLET AS APPROVED.

21. ALL FILTER FABRIC USED FOR PIPE UNDERDRAIN CONSTRUCTION SHALL MEET THE REQUIREMENTS OF

22. FORM LINER PATTERN SHALL BE SYMONS CORPORATION "SOUTHWEST ASHLAR STONE" OR APPROVED

23. PRIOR TO THE RETAINING WALL CONSTRUCTION, SUBMIT TO THE CITY ENGINEER, A TEST (8'x6'x8")

24. PLACE FORM LINER SUCH THAT SIMULATED MORTAR JOINTS ARE HORIZONTAL (LEVEL) AND VERTICAL

25. PENETRÁTING STAIN SHALL BE SHERWIN WILLIAMS H&C CONCRETE STAIN SOLID COLOR WATER BASED

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

26. APPLICATION OF THE "SIMULATED STONE MASONRY STAIN" SYSTEM IS DESIGNED TO DUPLICATE

CLOSELY THE APPEARANCE OF NATURAL LIMESTONE ON SIMULATED MASONRY FORMED CONCRETE

SURFACES. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE

ARCHITECT/ENGINEER AND MANUFACTURER'S REPRESENTATIVE TO ASSURE UNDERSTANDING OF SIMULATED STONE MASONRY, COLOR APPLICATION, REQUIREMENT FOR CONSTRUCTION OF TEST PANEL

27. THE FORM RELEASE AGENT USED ON CONCRETE SURFACES TO BE COATED, SHALL BE COMPATIBLE

WITH SIMULATED STONE MASONRY MOLDS AND WITH COLOR STAIN SYSTEM TO BE APPLIED TO

29. INTEGRAL SIDEWALK CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT-OF-WAY

31. ALL INTEGRAL SIDEWALK CURB CONTRACTION JOINTS SHALL MATCH CONCRETE SIDEWALK JOINTS.

STA. TO STA.

INTEGRAL SIDEWALK AND RETAINING WALL

LOCATION

TOTALS

SIDE

LENGTH

LIN. FT.

HEIGHT

FEET

28. WHERE RIGHT-OF-WAY ALLOWS, USE OF INTEGRAL SIDEWALK CURB SHOULD BE MINIMIZED.

PREFERRED, 4:1 MAXIMUM. ON REHABILITATION PROJECTS, IF 3:1 IS EXCEEDED WITHIN

30. INTEGRAL SIDEWALK CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH

32. END TAPERS AT TRANSITION SECTION SHALL MATCH IN PLACE SIDEWALK GRADES.

33. INTEGRAL SIDEWALK CURB SHALL MATCH BOTTOM OF ADJACENT WALK.

GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED. 6:1 GRADING

DRAWINGS AND MATERIALS TESTS AS REQUIRED FOR APPROVAL BY THE CITY ENGINEER.

20. ALL UNDERDRAIN PIPES, TYPE H OR T, SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1%.

OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE

13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BARS DIAMETERS IN LENGTH.

SHALL HAVE %" SMOOTH DOWEL ASSEMBLIES WITH GREASED CAPS @ 12" CTRS. MAX.

<u>JOINTS:</u>

7. ALL FORM TIES SHALL BE RECESSED TYPE.

8. * TYPE A JOINT SPACING SHALL BE 8'.

NEW WALLS ABUT EXISTING. 11. KEY ALL CONSTRUCTION JOINTS.

WILL NOT BE ACCEPTABLE.

MAXIMUM SPACING

FORM LINER AND STAIN:

OR APPROVED EQUAL.

ORANGE-#30257

DARK GRÄY-#30318 YELLOW-33448

AND TO COORDINATE THE WORK.

PREVIOUS TOP OF SIDEWALK ELEVATIONS.

AS LISTED BELOW:

INTEGRAL SIDEWALK CURB:

ALLOWS.

EQUAL.

(PLUMB).

UNDERDRAIN CONSTRUCTION:

REINFORCING STEEL:

PERMITTED.

17. STOP UNDERDRAIN AT ENDS OF SIDEWALK / RETAINING WALL.

THAT EXHIBITS THE TEXTURE, COLOR AND UNIFORMITY OF FINISH.

SURFACE. CONSULT MANUFACTURER OF THE COLOR STAIN SYSTEM.

RIGHT-OF-WAY, INTEGRAL SIDEWALK CURB SHOULD BE USED.

AASHTO M288 CLASS 1 OR APPROVED EQUAL.

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

- 4. SEE PLAN VIEW FOR UNDERDRAIN OR WEEPHOLE LOCATIONS.

- <u>CONCRETE:</u>

KANSAS.





<u>SECTION</u>

INTEGRAL SIDEWALK CURB





2025 EDITION SHEET OF								
DATE	BY	REVISION						
04-01-25								
04-01-24	LJM	NEW DETAIL						
STANDARD DETAILS FOR INTEGRAL SIDEWALK RETAINING WALL 2 OF 3								
DAVID P. CRONINCRAIG S. OWENSCITY ENGINEERCITY MANAGER								



- 1. LAWRENCE, KANSAS MUNICIPAL CODE AND DESIGN CRITERIA,
- 2. GALVANIZE ALL RAIL, RAIL SPLICES, POSTS, PICKETS, SHIMS AND BASE PLATES AFTER FABRICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123. NO FIELD GALVANIZING WILL BE ALLOWED. HANDRAILS SHALL BE PROTECTED FROM ANY DAMAGE TO THE GALVANIZED SURFACES. HANDRAILS DELIVERED TO THE JOB SITE WITH DAMAGED GALVANIZING SHALL BE RETURNED TO THE MANUFACTURER TO BE
- 3. SET RAILS PARALLEL TO THE TOP OF THE WALL. SET POSTS AND PICKETS VERTICAL IN BOTH PLANES OF THE HANDRAIL.

- 6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF THE ELEVATIONS OF RETAINING WALLS, HUBGUARDS OR WINGWALLS PRIOR TO FABRICATION OF HANDRAIL. POST SPACING WILL BE REVIEWED DURING THE SHOP DRAWING REVIEW PERIOD TO
- LENGTH OF AN INDIVIDUAL HANDRAIL UNIT SHALL BE 30'-0".
- CENTER OF RAIL SPLICES 1'-9" FROM CENTERLINE OF POST
- TO COMPLETE THE WORK SHALL BE PAID FOR UNDER THE BID ITEM "HANDRAIL". THE HANDRAIL IS TO BE BID ON A PER LINEAR FOOT BASIS MEASURED FROM END TO END OF

2025 E	EDITIO	N	SHI	EET	_ OF		
DATE	BY	REVISION					
04-01-25							
04-01-24	LJM	NEW DETAIL					
STANDARD DETAILS FOR METAL HANDRAILS AND WOOD FENCE 3 OF 3							
DAVID P. CRONIN CRAIG S. OWENS CITY ENGINEER CITY MANAGER							