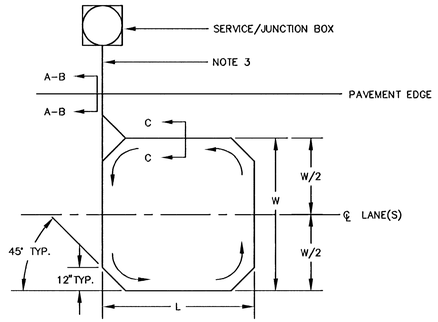
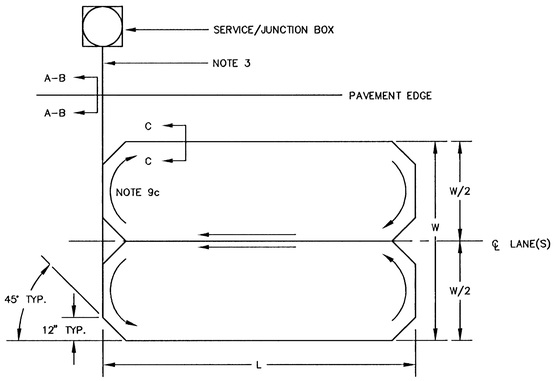
# Loop Construction/Installation Details

| FHWA REGION NO. | | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | KANSAS | 87N 0064-01 | 1997 | 81 | 130 |

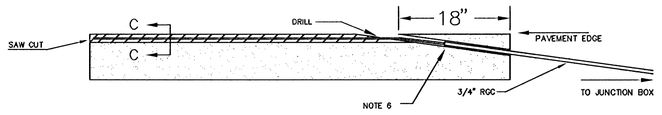
## Typical Conventional Loop Installation



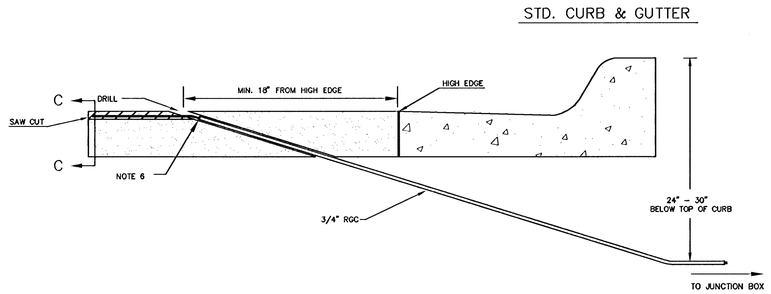

## Typical Quadrapole Loop Installation



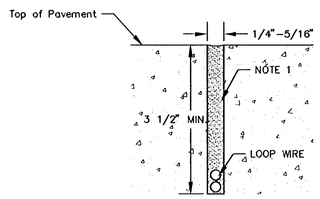

## Detail A - No Curb & Gutter



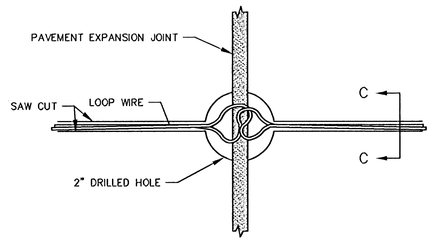

## Detail B - Full Curb & Gutter




## Detail C - Saw Cut




## Detail D - Pavement Joint Crossing




## NOTES:

1. Loop saw cut shall be filled with approved sealant to within 1/8" of pavement surface.
2. All loops shall be wound in the same direction.
3. Loop wire between the loop and the service/junction box shall be twisted 6 turns per meter.
4. No expansion joint in the pavement or curb & gutter shall be utilized in the placement of loop wire runs or conduit embedding.
5. The loop wire shall not pass through any part of any drive approach and/or corner radius.
6. All conduit ends shall be sealed with duct seal to prevent loop sealant from entering conduit.
7. Loop feeder conduit shall be a minimum of 12" from any other loop feeder conduit.
8. Saw cuts running parallel with expansion joint or any other saw cut shall be a minimum of 12" apart.
9. a. Loops 25' or less – 4 turns.
   b. Loops over 25' – 3 turns.
   c. Quadrapole loops – 2-4-2 turns.
10. The loop wire shall have 2" slack at all crossings of pavement joints to allow for expansion/contration of pavement. – Detail D

| REV. DATE | COMMENTS | INT |
|---|---|---|
| | | |

PROJECT DESCRIPTION

**LOOP DETECTOR CONSTRUCTION/INSTALLATION DETAILS**

PROJECT NUMBER

| DRAWN BY: T.M. | APPROVED BY | DATE: JULY 96 |
|---|---|---|
| SCALE: NO SCALE | | REVISED: |

**CITY OF WICHITA**

**DEPARTMENT OF PUBLIC WORKS**

TRAFFIC ENGINEERING DIVISION

WM. G. McKINLEY TRAFFIC ENGINEER

SH: 81 OF: 130

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