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| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |

CONSTRUCTION NOTES:

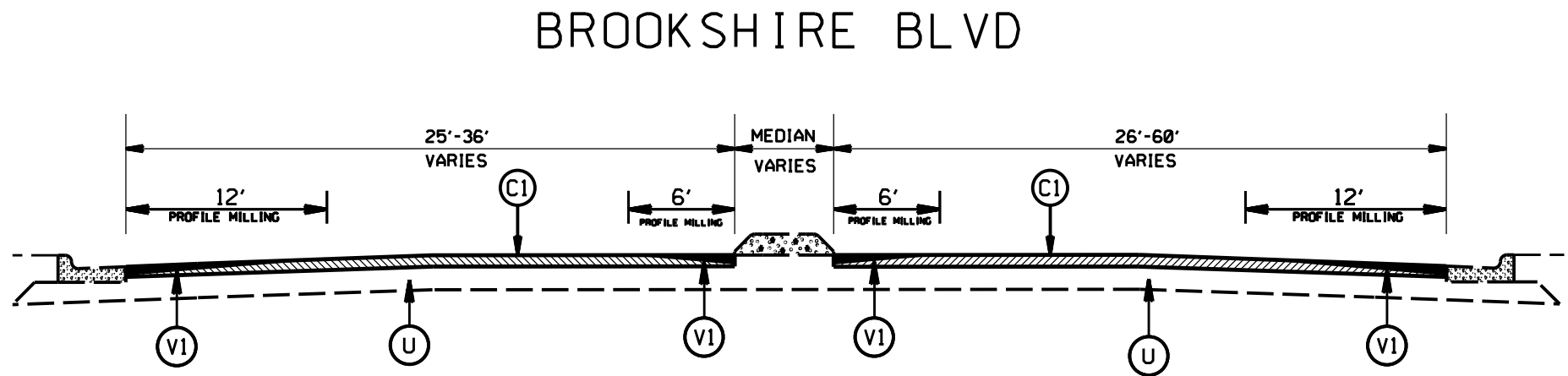
1. FOR MAP 10, EAST 7TH STREET THE CONTRACTOR SHALL CONTACT, CHAD HAGANS, THE RAIL SAFETY MANAGER WITH THE CHARLOTTE AREA TRANSIT SYSTEM (CATS) AT 980-266-9550, 1 WEEK PRIOR TO THE SCHEDULING OF ANY WORK.
2. THE CONTRACTOR SHALL NOT CROSS OR ENTER THE RIGHT OF WAY OF THE (CATS) LITE RAIL SYSTEM WITH ANY HEAVY EQUIPMENT DURING HIS MILLING OR PAVING OPERATION.
3. THE CONTRACTOR SHALL MOBILIZE TO EACH SIDE OF THE (CATS) LITE RAIL CORRIDOR AND PAVE IN A DIRECTION AWAY FROM THE RAIL LINES TRACKS, FOR MAP 10.
4. THE CONTRACTOR SHALL MAINTAIN A DISTANCE OF 30 FEET FROM THE OUTSIDE RAIL OF THE LITE RAIL TRACKS AT ALL TIMES DURING MILLING A PAVING OPERATIONS, FOR MAP 10.
5. THE CONTRACTOR SHALL ONLY SEAL TRANSVERSE AND LONGITUDAL CRACKS ON MAPS 6,7,8,9, AS DIRECTED BY THE ENGINEER, NO OTHER WORK SHALL BE DONE ON THESE MAPS.

2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

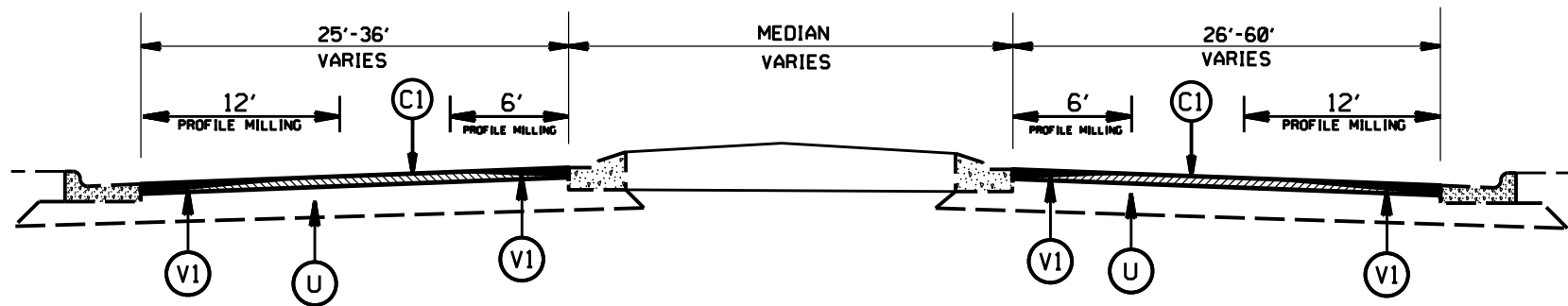
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| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/22 |   |           |
| DWG. BY   | JHE  |   |           |
| DESIGN BY | JHE  |   |           |
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| PAVEMENT SCHEDULE |   |
|-------------------|---|
| C1                | PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.    |
| C2                | PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.    |
| C3                | PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. |
| P                 | CRACK AND JOINT SEALING, JOINT SEALANT COVERAGE WIDTH 3/8" DEPTH 1/2", 9.5 POUNDS PER 100 LINEAR FEET         |
| T1                | SHOULDER RECONSTRUCTION   |
| V1                | PROFILE MILLING 0" TO 1.5"  |
| V2                | MILLING 1.25" DEPTH   |
| V3                | MILLING 1.5" DEPTH  |
| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

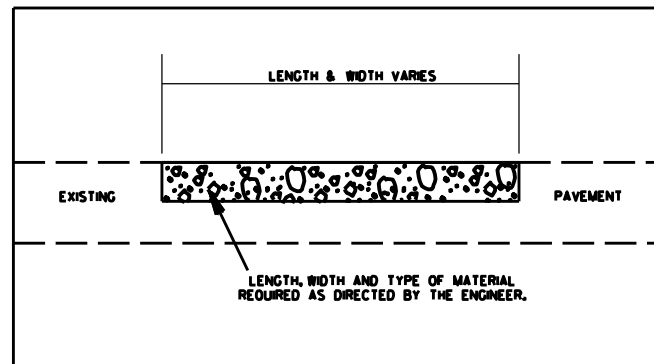


TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

PATCHING DETAIL



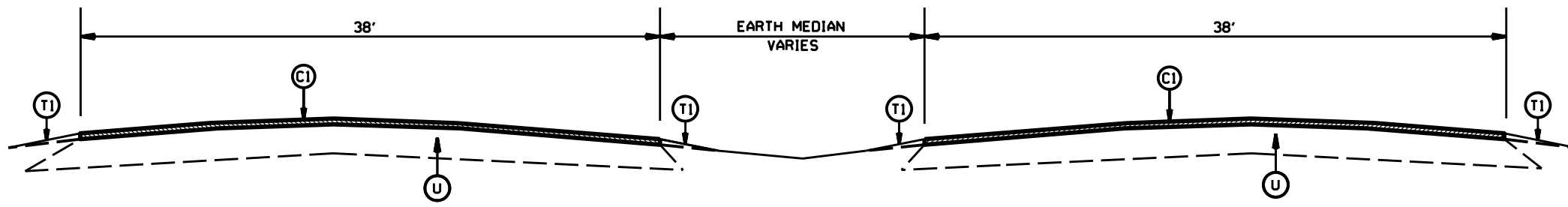
2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

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| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/22 |  |           |
| DWG. BY   | JHE  |  |           |
| DESIGN BY | JHE  |  |           |
| APPROVED  |      |  |           |

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| STATE   | PROJECT NO.         | SHEET NO. | TOTAL SHEETS        |
| N.C.    |                     |           |                     |
| WBS NO. | 2023CPT.I0.07.I060I |           | 2023CPT.I0.07.2060I |

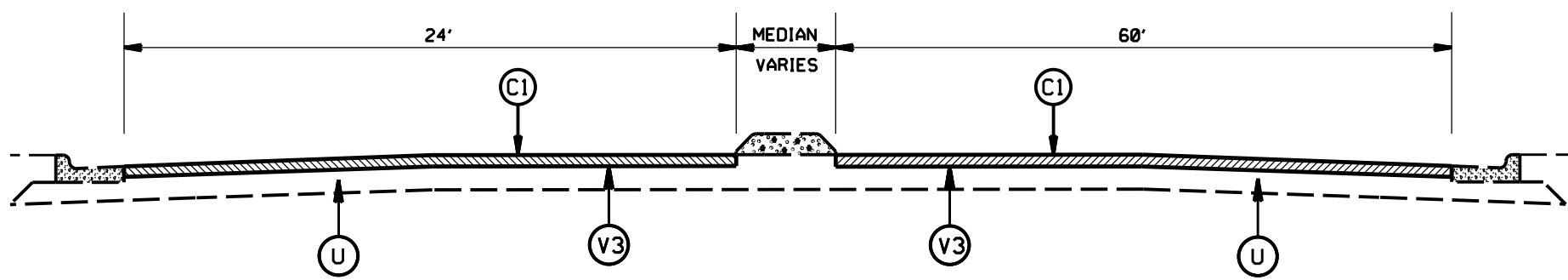
| PAVEMENT SCHEDULE |   |
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| V3                | MILLING 1.5" DEPTH  |
| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

### BROOKSHIRE BLVD



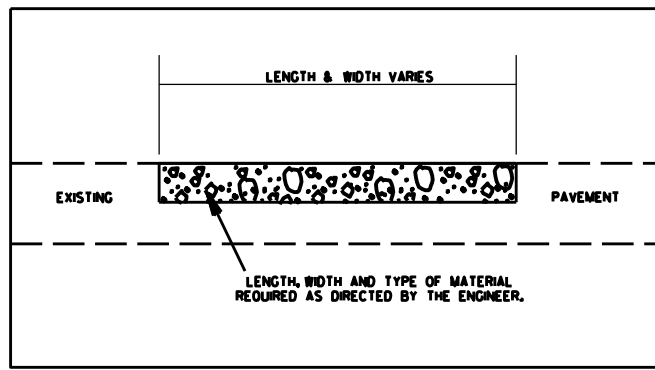
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### PINEVILLE-MATTHEWS ROAD



TYPICAL SECTION NO. 4

#### PATCHING DETAIL



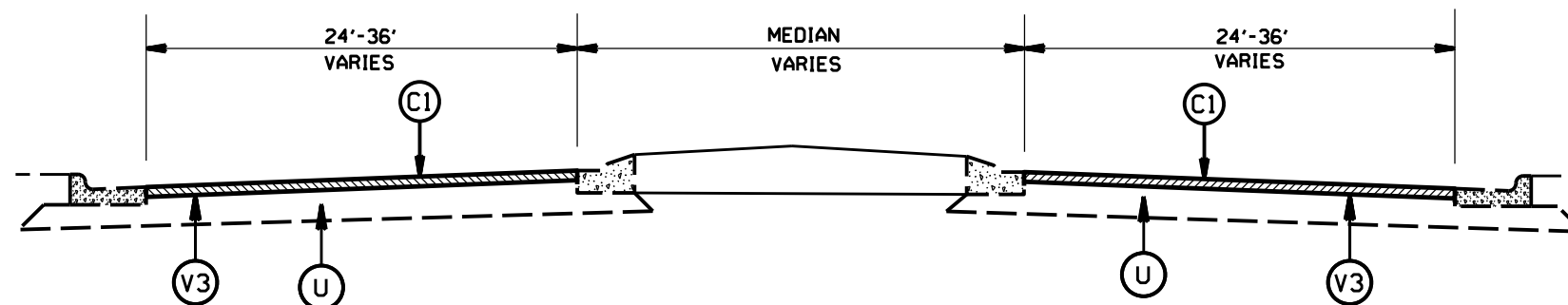
2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

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| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/22 |  |           |
| DWG. BY   | JHE  |  |           |
| DESIGN BY | JHE  |  |           |
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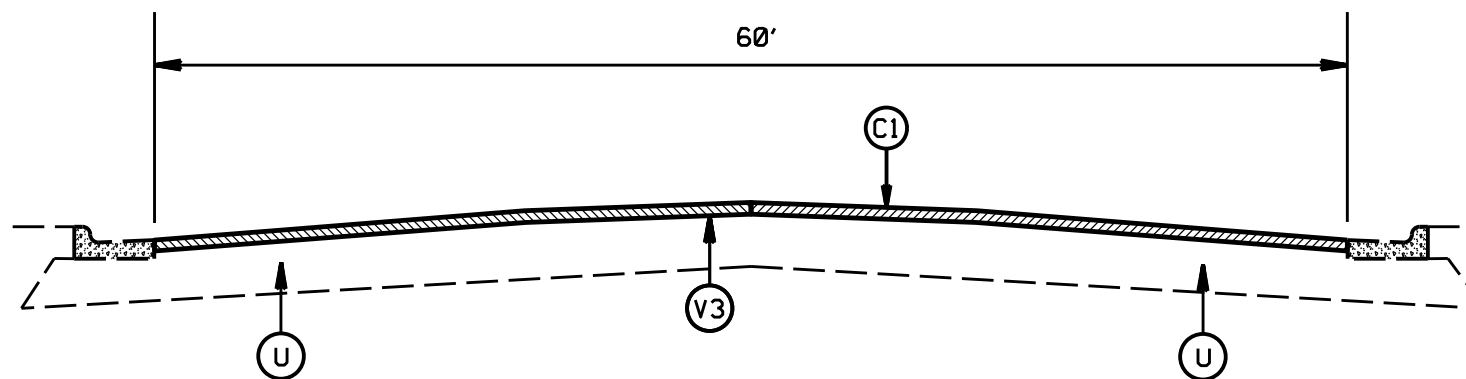
| PAVEMENT SCHEDULE |   |
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| V3                | MILLING 1.5" DEPTH  |
| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

### PINEVILLE-MATTHEWS ROAD



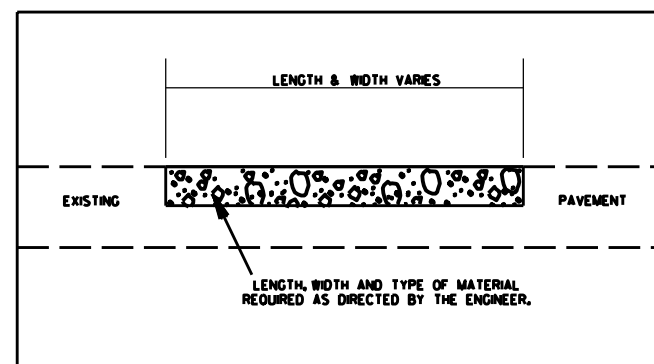
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### PINEVILLE-MATTHEWS ROAD



### TYPICAL SECTION NO. 6

### PATCHING DETAIL



2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

SCALE -NA-  
DATE 8/22  
DWG. BY JHE  
DESIGN BY JHE  
APPROVED



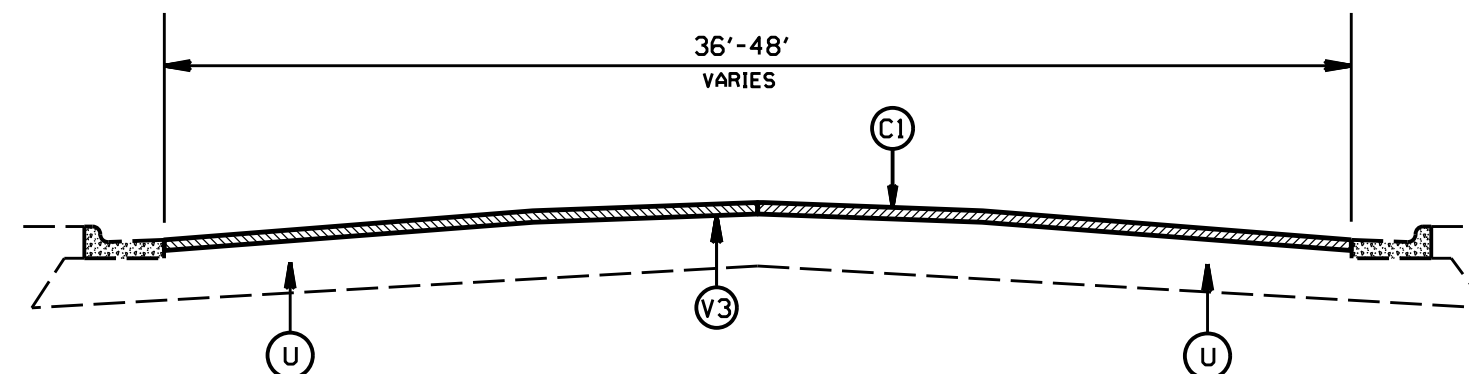
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| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
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| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |

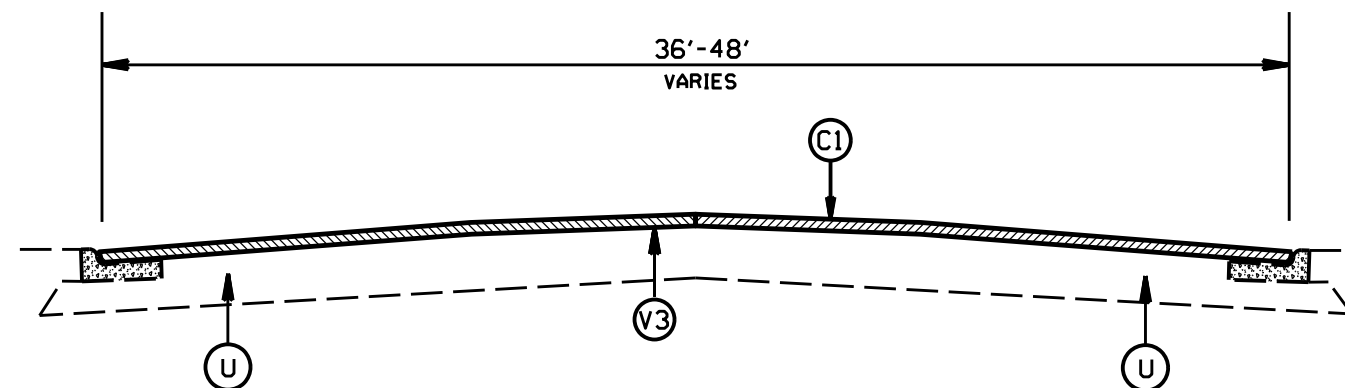
| PAVEMENT SCHEDULE |   |
|-------------------|---|
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| V3                | MILLING 1.5" DEPTH  |
| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

### EAST 7TH STREET



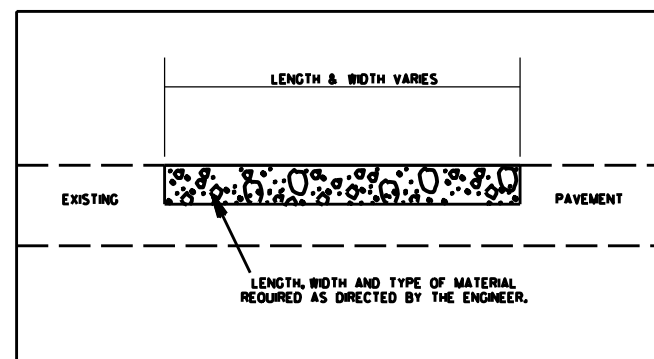
TYPICAL SECTION NO. 7

### EAST 7TH STREET



TYPICAL SECTION NO. 8

### PATCHING DETAIL



2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

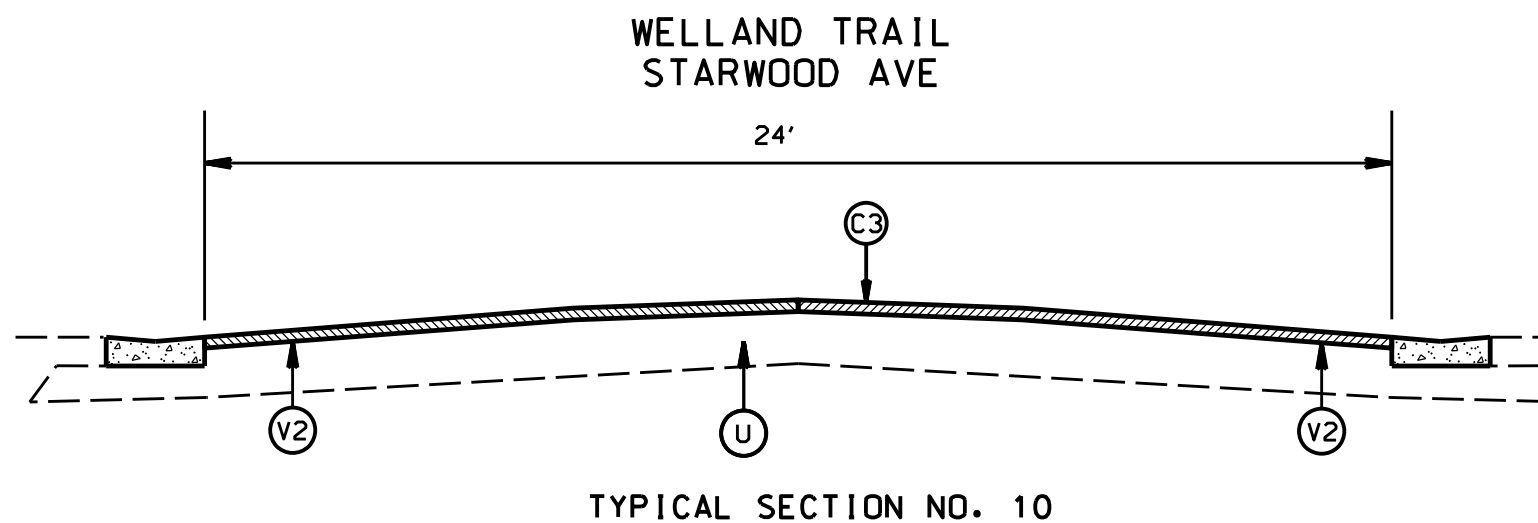
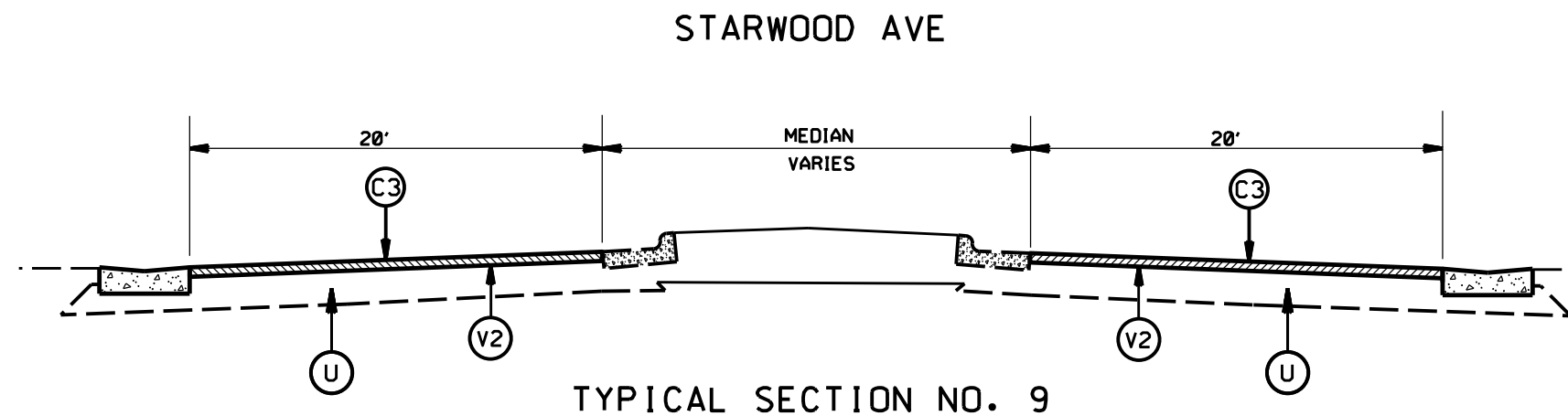
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| SCALE     | -NA- |
| DATE      | 8/22 |
| DWG. BY   | JHE  |
| DESIGN BY | JHE  |
| APPROVED  |      |



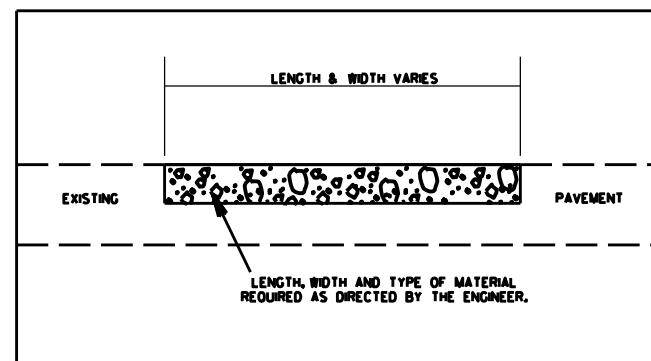
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| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |



**PATCHING DETAIL**



**2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1**

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| SCALE     | -NA- |
| DATE      | 8/22 |
| DWG. BY   | JHE  |
| DESIGN BY | JHE  |
| APPROVED  |      |

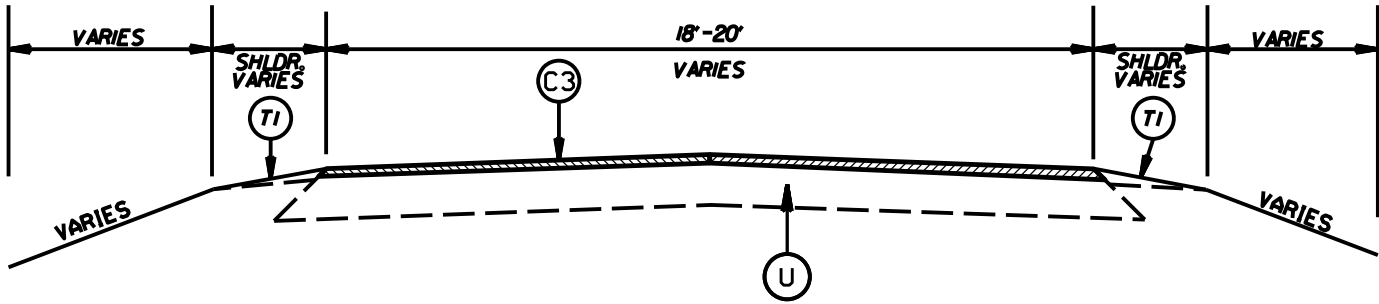


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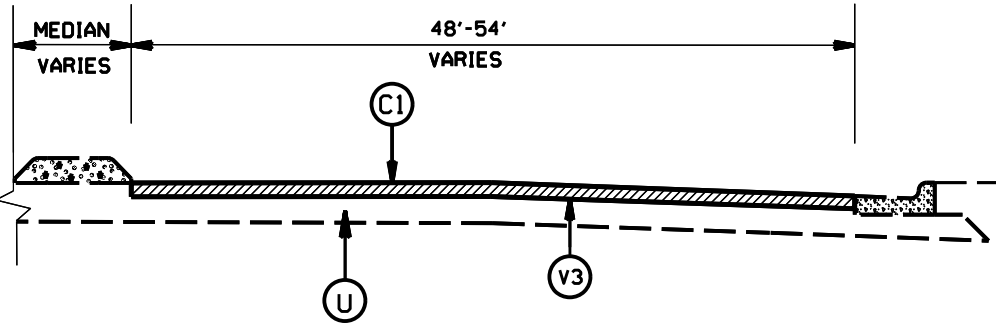
| PAVEMENT SCHEDULE |   |
|-------------------|---|
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| V3                | MILLING 1.5" DEPTH  |
| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

LEYTON PLACE  
CUMBERLAND DRIVE/AUGUST LANE  
S. HAMPTON DRIVE  
N. HAMPTON DRIVE  
BECKENHAM DRIVE



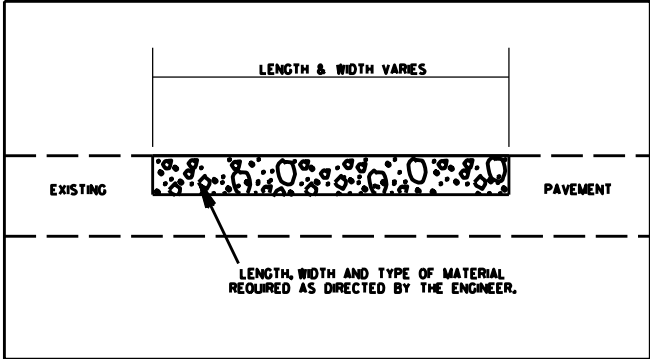
TYPICAL SECTION NO. 11

SB N. WENDOVER ROAD



TYPICAL SECTION NO. 12

PATCHING DETAIL



2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

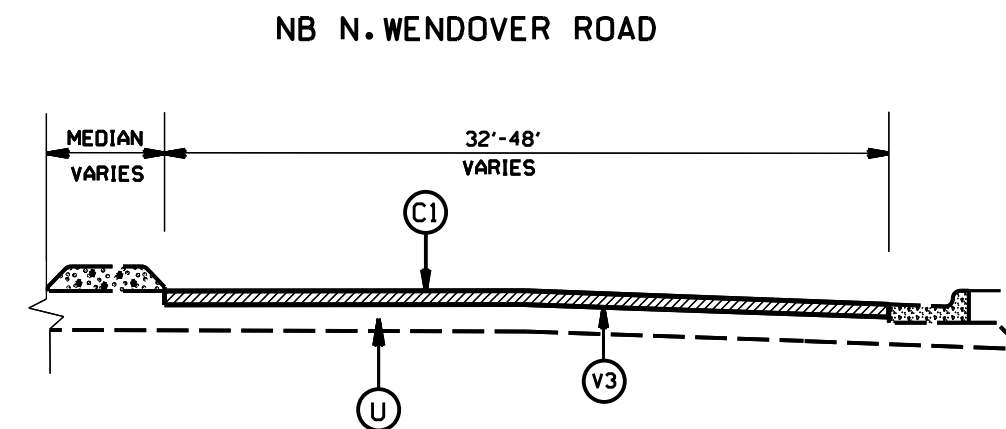
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| DATE      | 8/22 |
| DWG. BY   | JHE  |
| DESIGN BY | JHE  |
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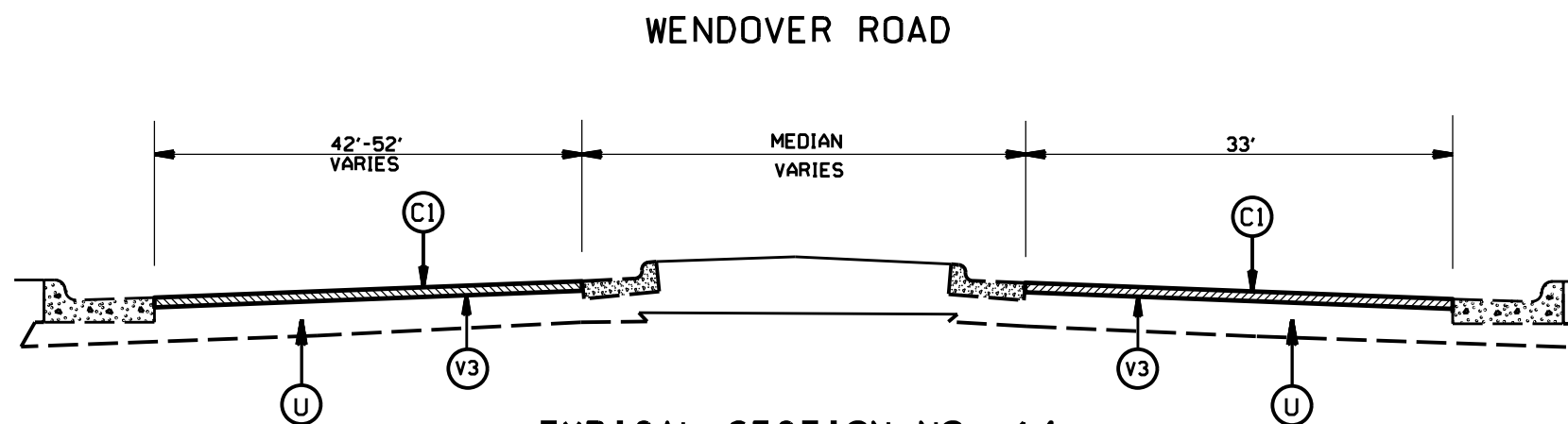
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| V3                | MILLING 1.5" DEPTH  |
| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

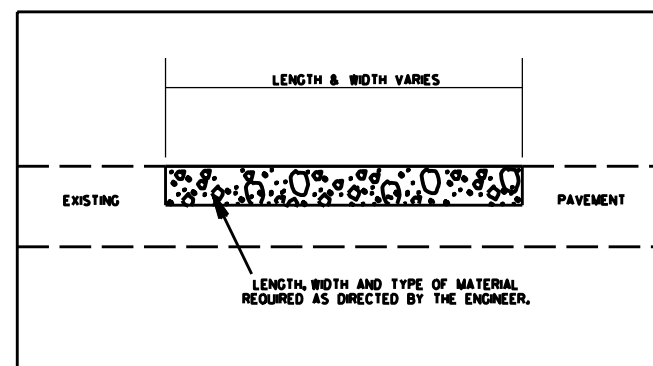


TYPICAL SECTION NO. 13



TYPICAL SECTION NO. 14

PATCHING DETAIL



2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

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| SCALE     | -NA- |
| DATE      | 8/22 |
| DWG. BY   | JHE  |
| DESIGN BY | JHE  |
| APPROVED  |      |

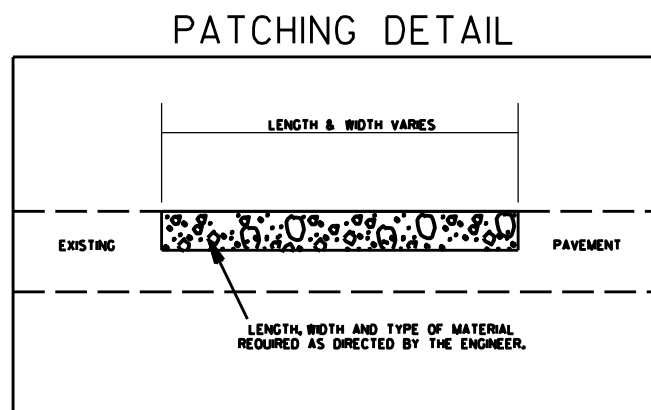
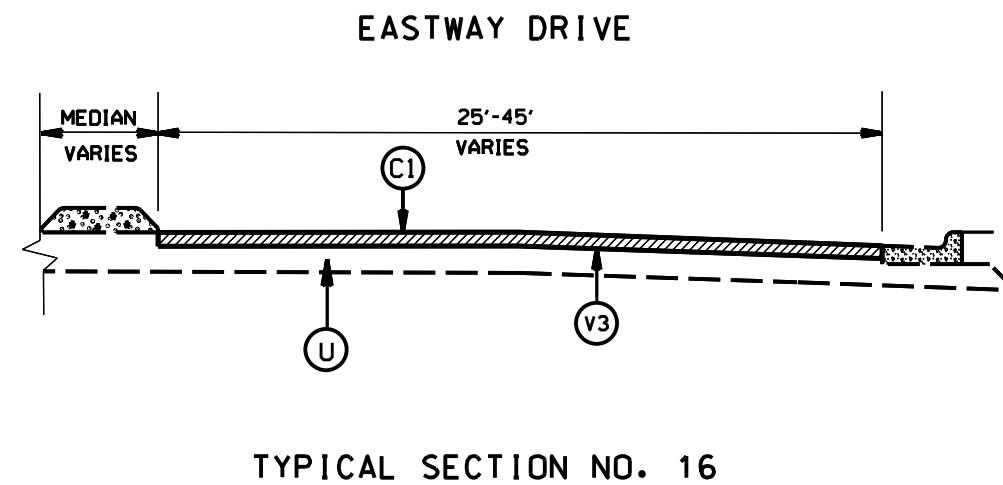
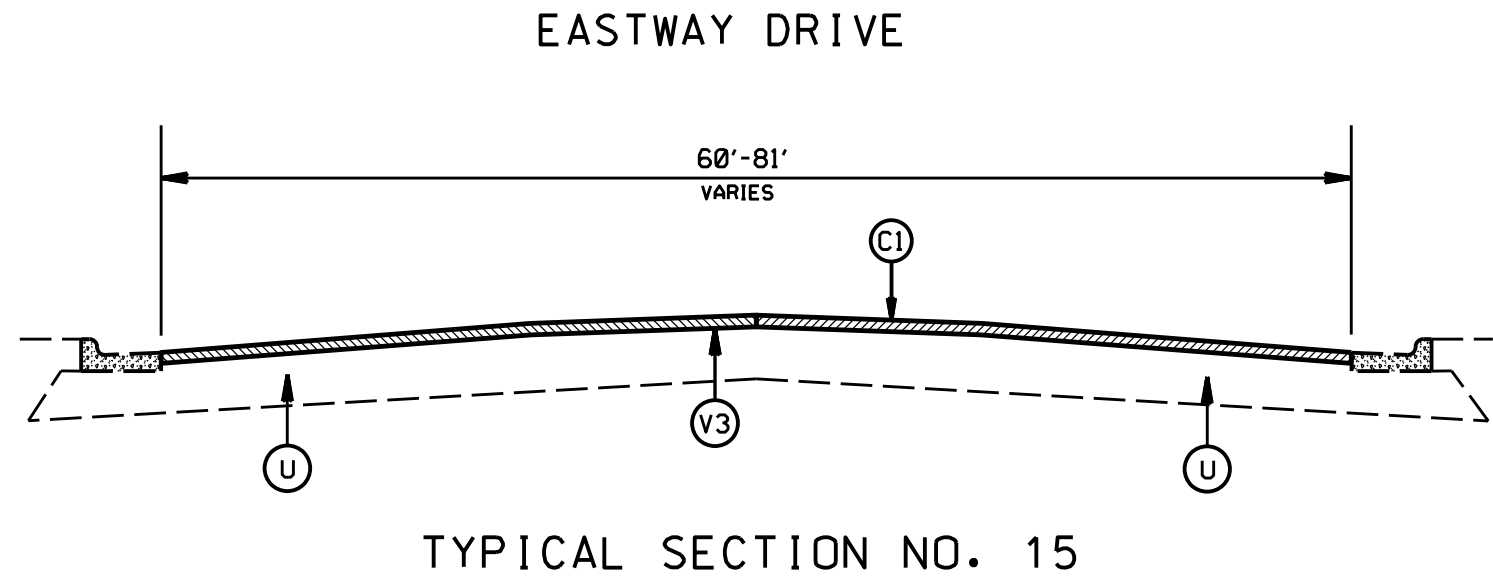


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|         | 2023CPT.I0.07.2060I |           |              |

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| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |

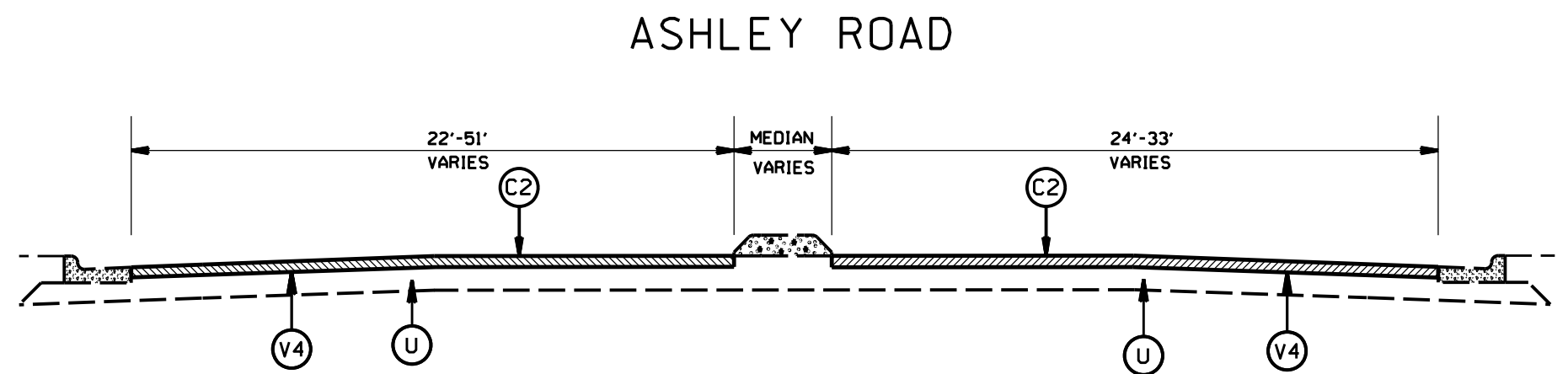


2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

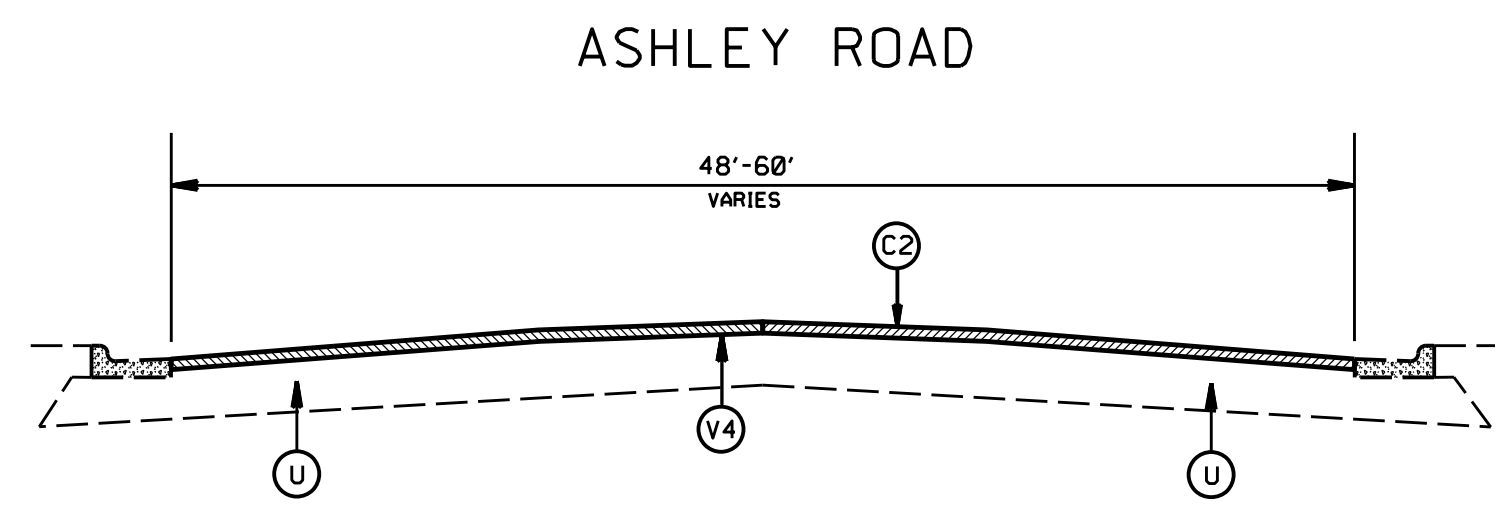
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| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/22 |  |           |
| DWG. BY   | JHE  |  |           |
| DESIGN BY | JHE  |  |           |
| APPROVED  |      |  |           |

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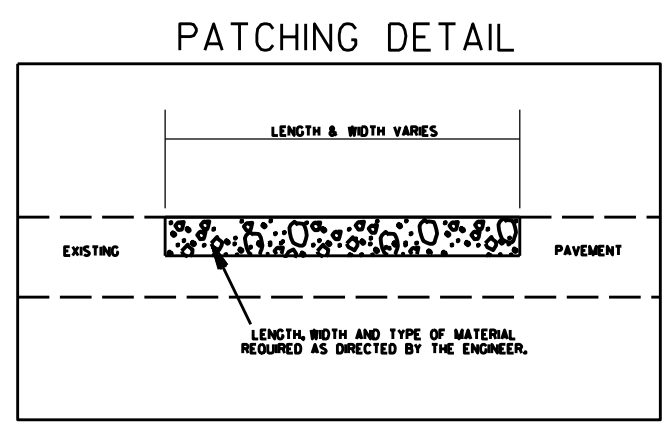
| PAVEMENT SCHEDULE |   |
|-------------------|---|
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| V4                | MILLING 2.0" DEPTH  |
| U                 | EXISTING PAVEMENT   |




TYPICAL SECTION NO. 17



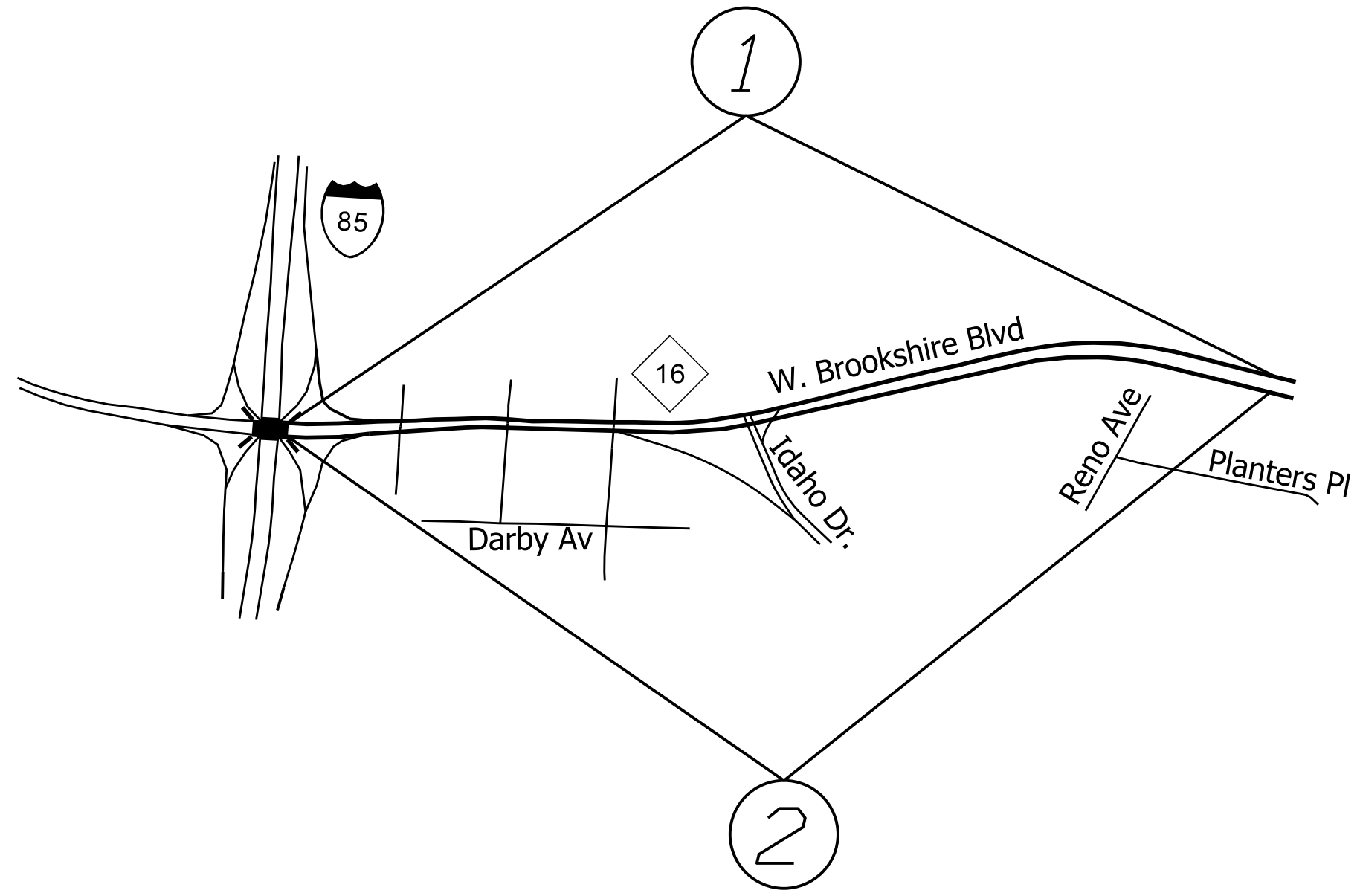
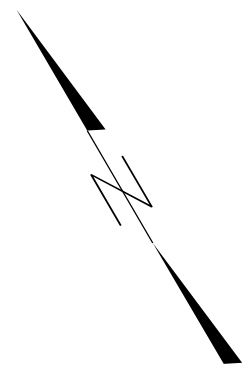
TYPICAL SECTION NO. 18



**2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1**

|           |      |   |           |
|-----------|------|---|-----------|
| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/22 |   |           |
| DWG. BY   | JHE  |   |           |
| DESIGN BY | JHE  |   |           |
| APPROVED  |      |   |           |

|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.10.07.10601<br>2023CPT.10.07.20601 |           |              |




MAP

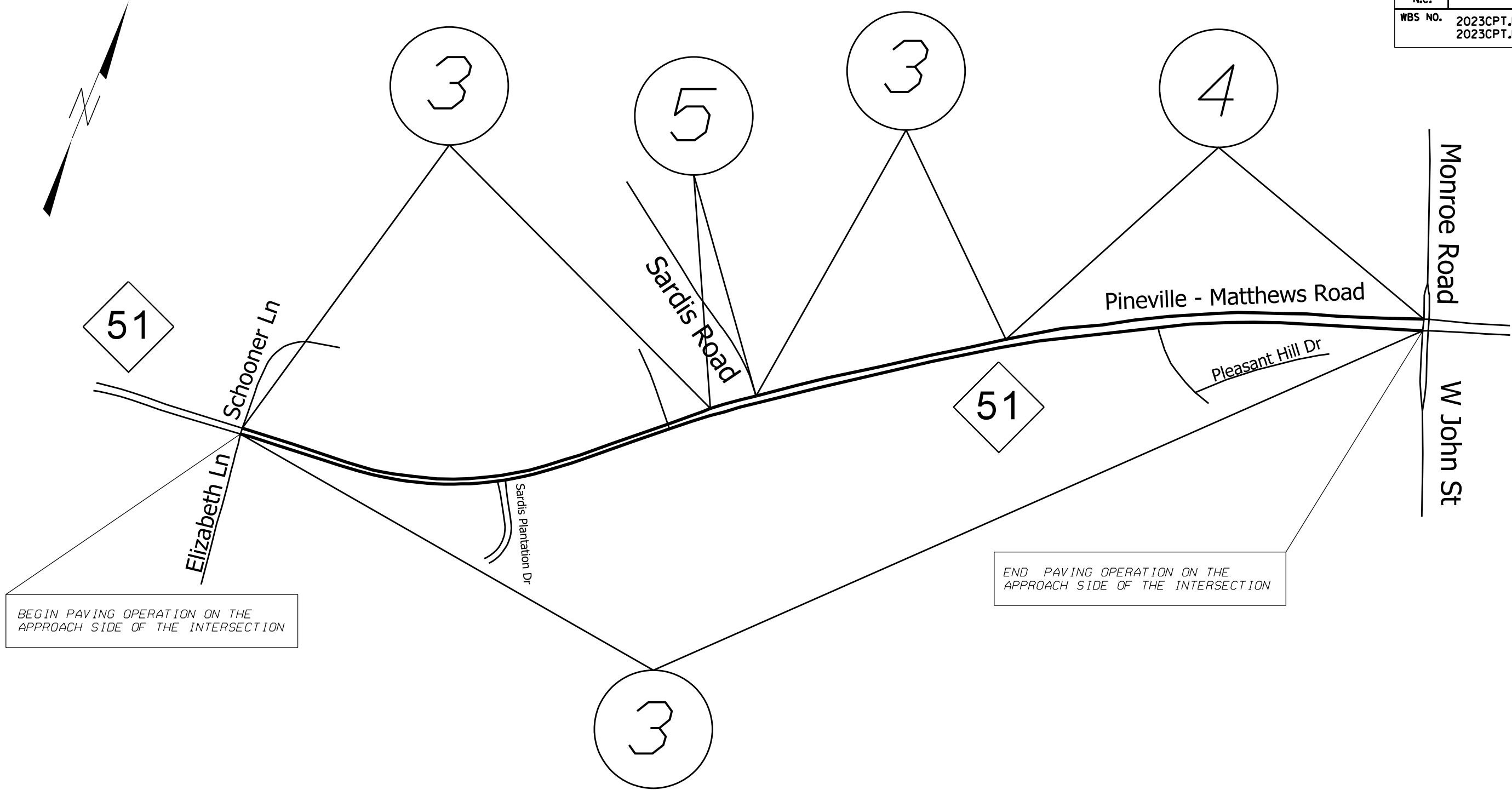
DESCRIPTION

- # 1 NB NC 16 BROOKSHIRE BLVD.
- # 2 SB NC 16 BROOKSHIRE BLVD.

- FROM CONCRETE PAVEMENT JOINT TO I-85 BRIDGE DECK
- FROM I-85 BRIDGE DECK TO CONCRETE PAVEMENT JOINT

|   |      |   |
|---|------|---|
| 2023 MECKLENBURG COUNTY<br>RESURFACING CONTRACT 1 |      |   |
| SCALE   | -NA- |  |
| DATE  | 8/18 |   |
| DWG. BY   | JHE  |   |
| DESIGN BY   | JHE  |   |
| APPROVED  |      |   |
|   |      | REVISIONS   |
|   |      |   |
|   |      |   |
|   |      |   |

|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |



MAP

DESCRIPTION

# 3 NB & SB NC 51 PINEVILLE - MATTHEWS RD

FROM ELIZABETH LANE TO WEST JOHN STREET

# 4 SB NC 51 PINEVILLE - MATTHEWS RD

FROM MONROE ROAD TO END OF DIVIDE

# 5 SB NC 51 PINEVILLE - MATTHEWS RD

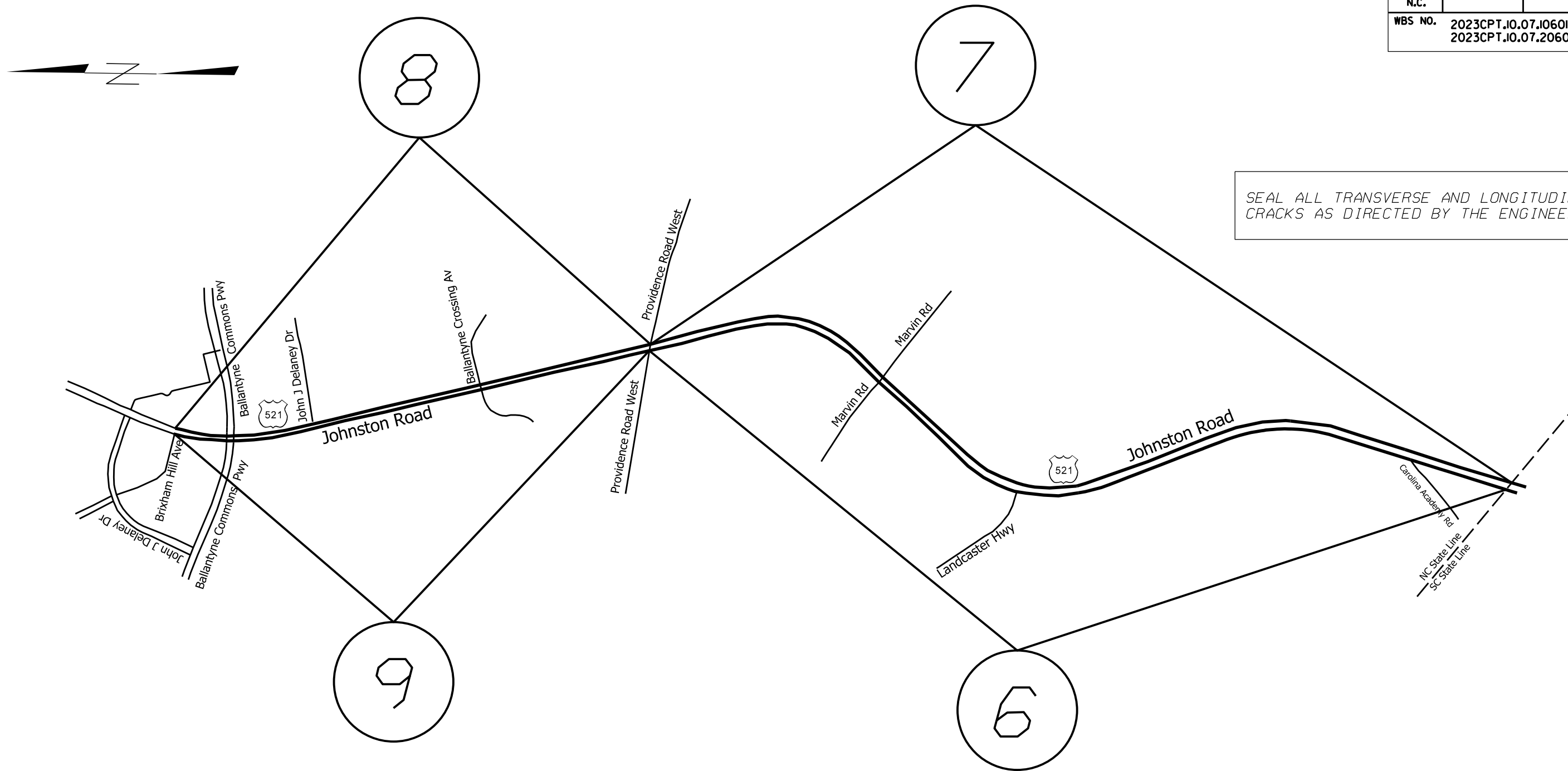
FROM DIVIDE AT SARDIS RD TO END OF DIVIDE

2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT 1

|           |      |  |           |
|-----------|------|--|-----------|
| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/18 |  |           |
| DWG. BY   | JHE  |  |           |
| DESIGN BY | JHE  |  |           |
| APPROVED  |      |  |           |

|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |

SEAL ALL TRANSVERSE AND LONGITUDINAL  
CRACKS AS DIRECTED BY THE ENGINEER



MAP

DESCRIPTION

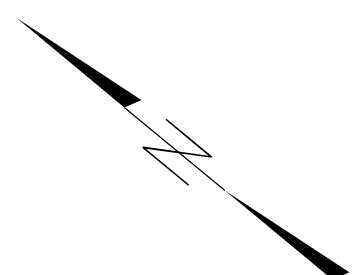
- # 6 SB US 521 JOHNSTON RD
- # 7 NB US 521 JOHNSTON RD
- # 8 NB US 521 JOHNSTON RD
- # 9 SB US 521 JOHNSTON RD

- FROM PROVIDENCE RD WEST TO SC STATE LINE
- FROM SC STATE LINE TO PROVIDENCE RD WEST
- FROM PROVIDENCE RD WEST TO BRIXHAM HILL AVE
- FROM BRIXHAM HILL AVE TO PROVIDENCE RD WEST

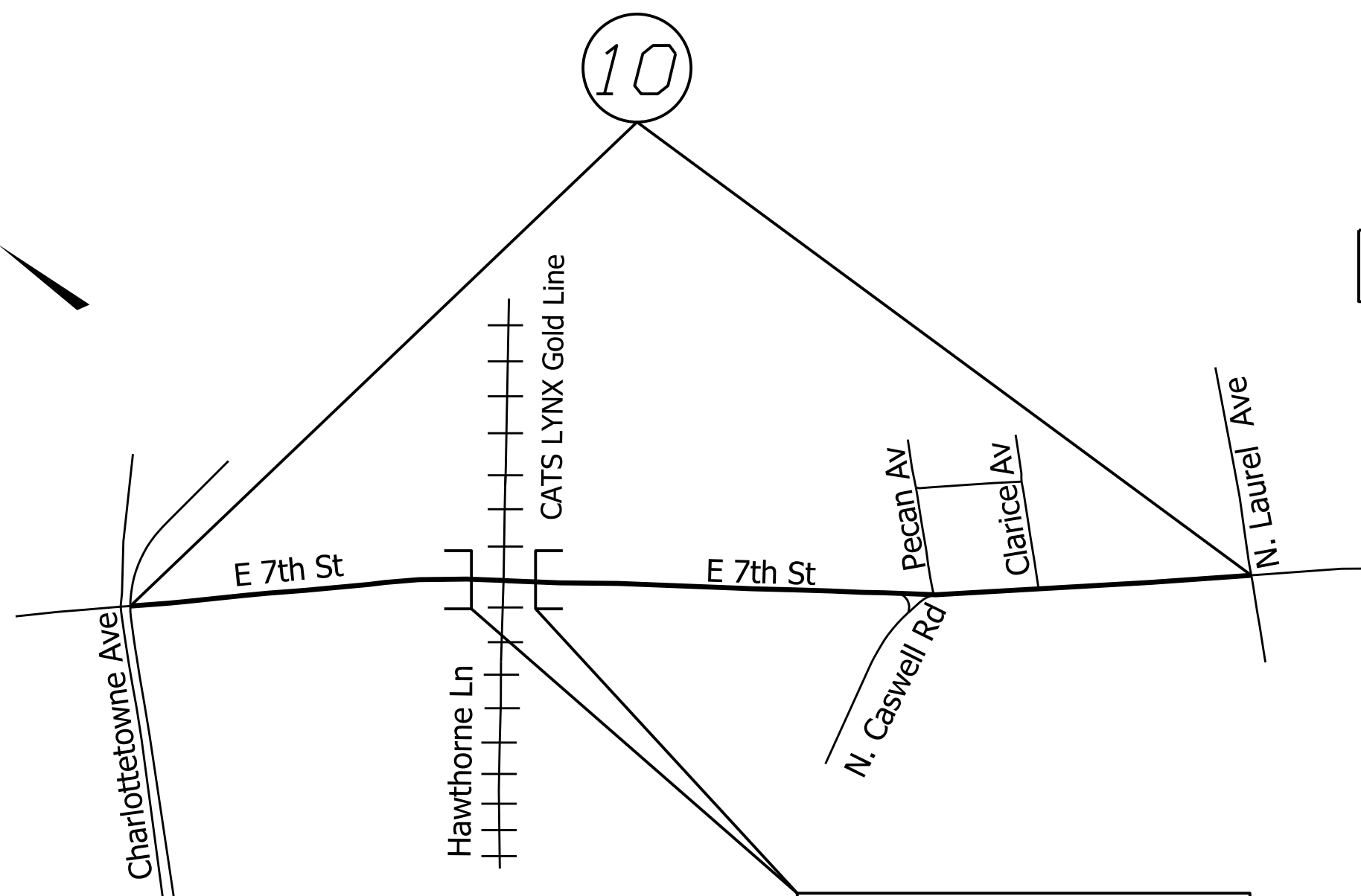
2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT I

|           |      |   |           |  |
|-----------|------|---|-----------|--|
| SCALE     | -1A- |  | REVISIONS |  |
| DATE      | 8/18 |   |           |  |
| DWG. BY   | JHE  |   |           |  |
| DESIGN BY | JHE  |   |           |  |
| APPROVED  |      |   |           |  |

|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |



SEE CONSTRUCTION NOTES FOR MAP DETAILS AND INSTRUCTIONS



THE CONTRACTOR SHALL CONDUCT HIS MILL & FILL OPERATION OUTSIDE OF THE LITE RAIL RIGHT OF WAY PAVING IN A DIRECTION AWAY FROM THE RAIL TRACKS AS DIRECTED BY THE ENGINEER.

MAP

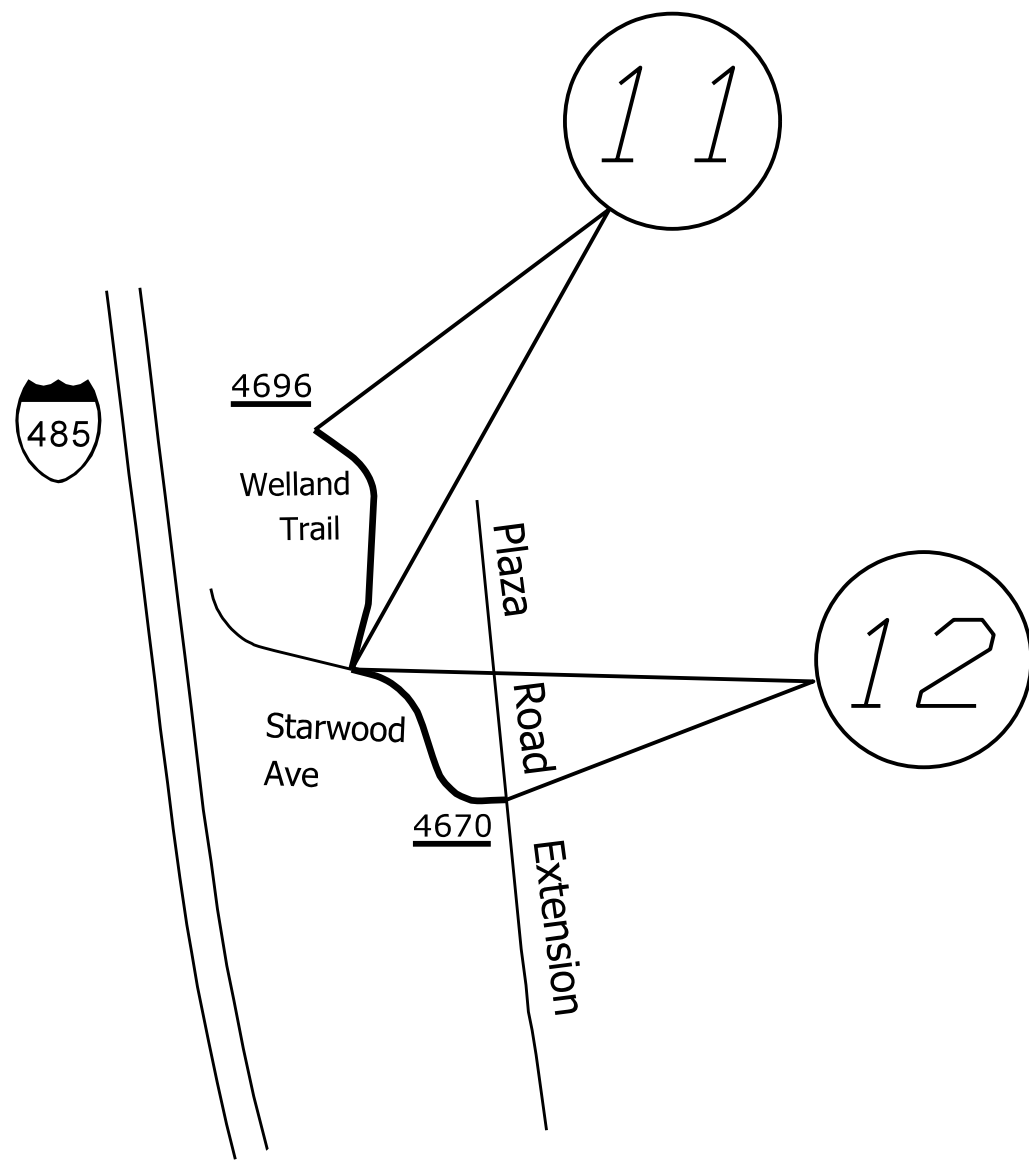
# 10 SR 3300 E. 7TH STREET

DESCRIPTION

FROM CHARLOTTETOWNE AVE TO N. LAUREL AVE

|   |      |           |
|---|------|-----------|
| 2023 MECKLENBURG COUNTY<br>RESURFACING CONTRACT 1 |      |           |
| SCALE   | -NA- |           |
| DATE  | 8/18 |           |
| DWG. BY   | JME  |           |
| DESIGN BY   | JME  |           |
| APPROVED  |      |           |
|   |      | REVISIONS |
|   |      |           |
|   |      |           |
|   |      |           |

|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |



MAP

# 11 SR 4696 WELLAND TRAIL

# 12 SR 4670 STARWOOD AVE

DESCRIPTION

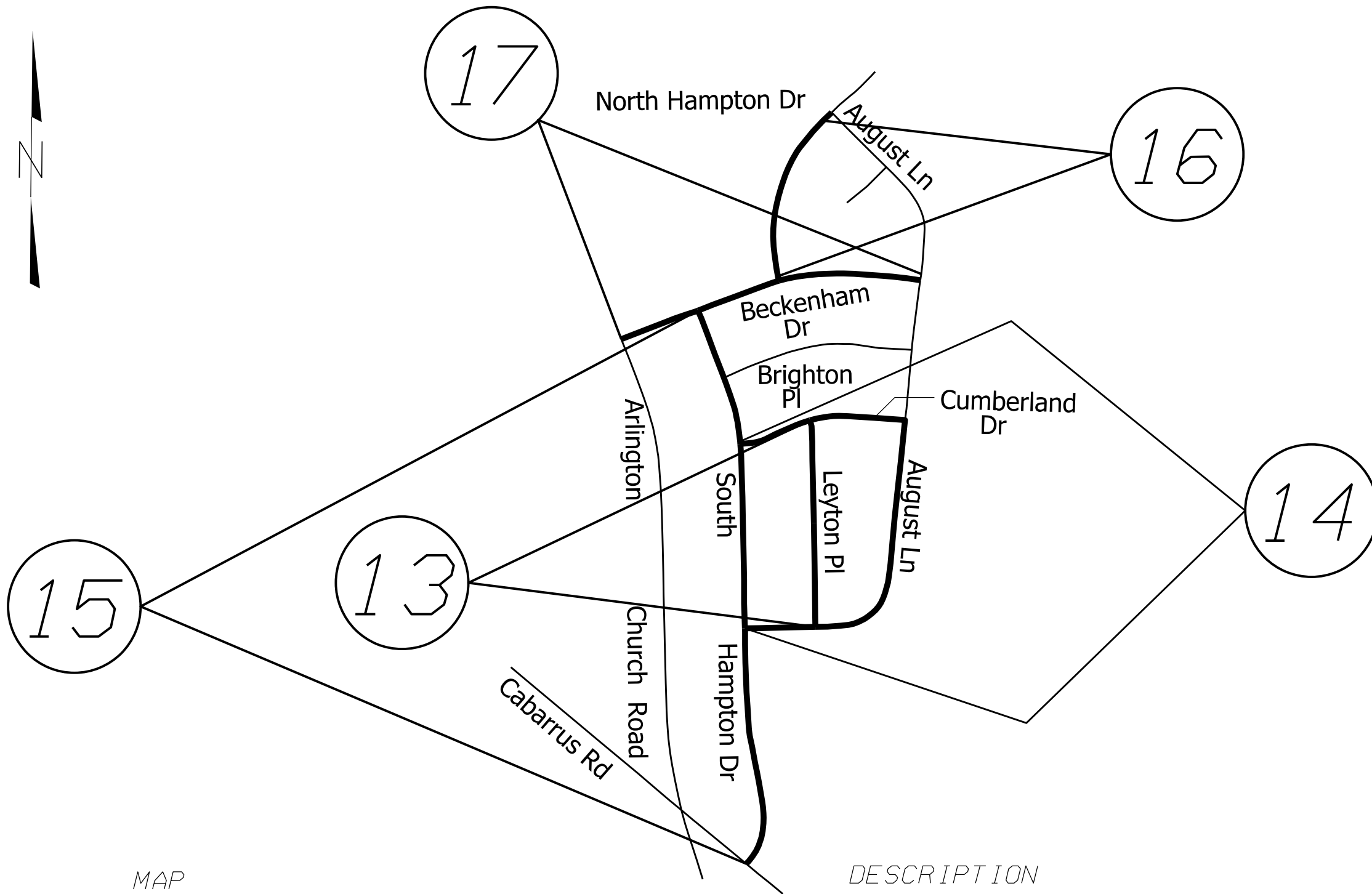
FROM STARWOOD AVE TO END OF MAINTENANCE

FROM PLAZA RD EXTENSION TO  
END OF MAINTENANCE

2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT I

|           |      |  |           |  |
|-----------|------|--|-----------|--|
| SCALE     | -NA- |  | REVISIONS |  |
| DATE      | 8/18 |  |           |  |
| DWG. BY   | JHE  |  |           |  |
| DESIGN BY | JHE  |  |           |  |
| APPROVED  |      |  |           |  |

|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |



MAP

DESCRIPTION

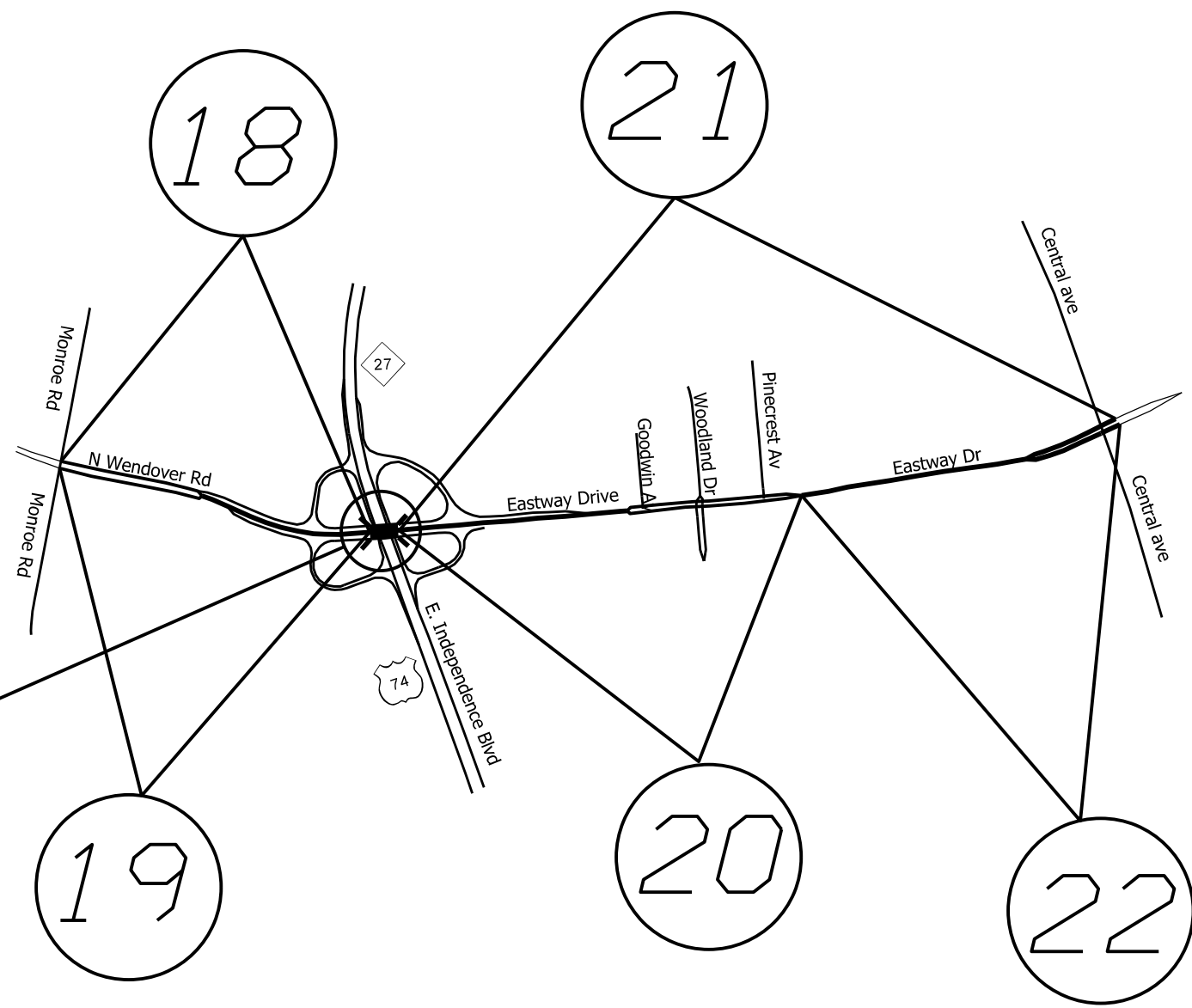
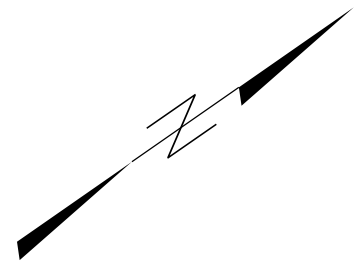
- |      |                                 |   |
|------|---------------------------------|---|
| # 13 | SR 4230 LEYTON PLACE            | FROM CUMBERLAND DR. TO AUGUST LN.               |
| # 14 | SR 4155 CUMBERLAND DR/AUGUST LN | FROM S. HAMPTON DR. TO S. HAMPTON DR.           |
| # 15 | SR 3289 S. HAMPTON DRIVE        | FROM BECKENHAM DR. TO CABARRUS RD.              |
| # 16 | SR 4220 N. HAMPTON DRIVE        | FROM BECKENHAM DR. TO END OF MAINTENANCE        |
| # 17 | SR 3288 BECKENHAM DRIVE         | FROM ARLINGTON CHURCH RD. TO END OF MAINTENANCE |

2023 MECKLENBURG COUNTY  
RESURFACING CONTRACT I

|           |      |   |           |
|-----------|------|---|-----------|
| SCALE     | -NA- |  | REVISIONS |
| DATE      | 8/18 |   |           |
| DWG. BY   | JHE  |   |           |
| DESIGN BY | JHE  |   |           |
| APPROVED  |      |   |           |



|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.I0.07.I060I<br>2023CPT.I0.07.2060I |           |              |




REMOVE AND REPLACE EXISTING PAVEMENT MARKINGS ON BRIDGE DECKS AS DIRECTED BY THE ENGINEER

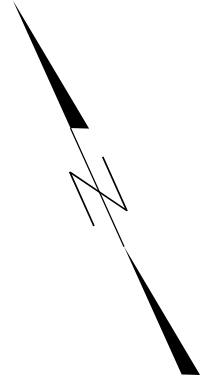
MAP

DESCRIPTION

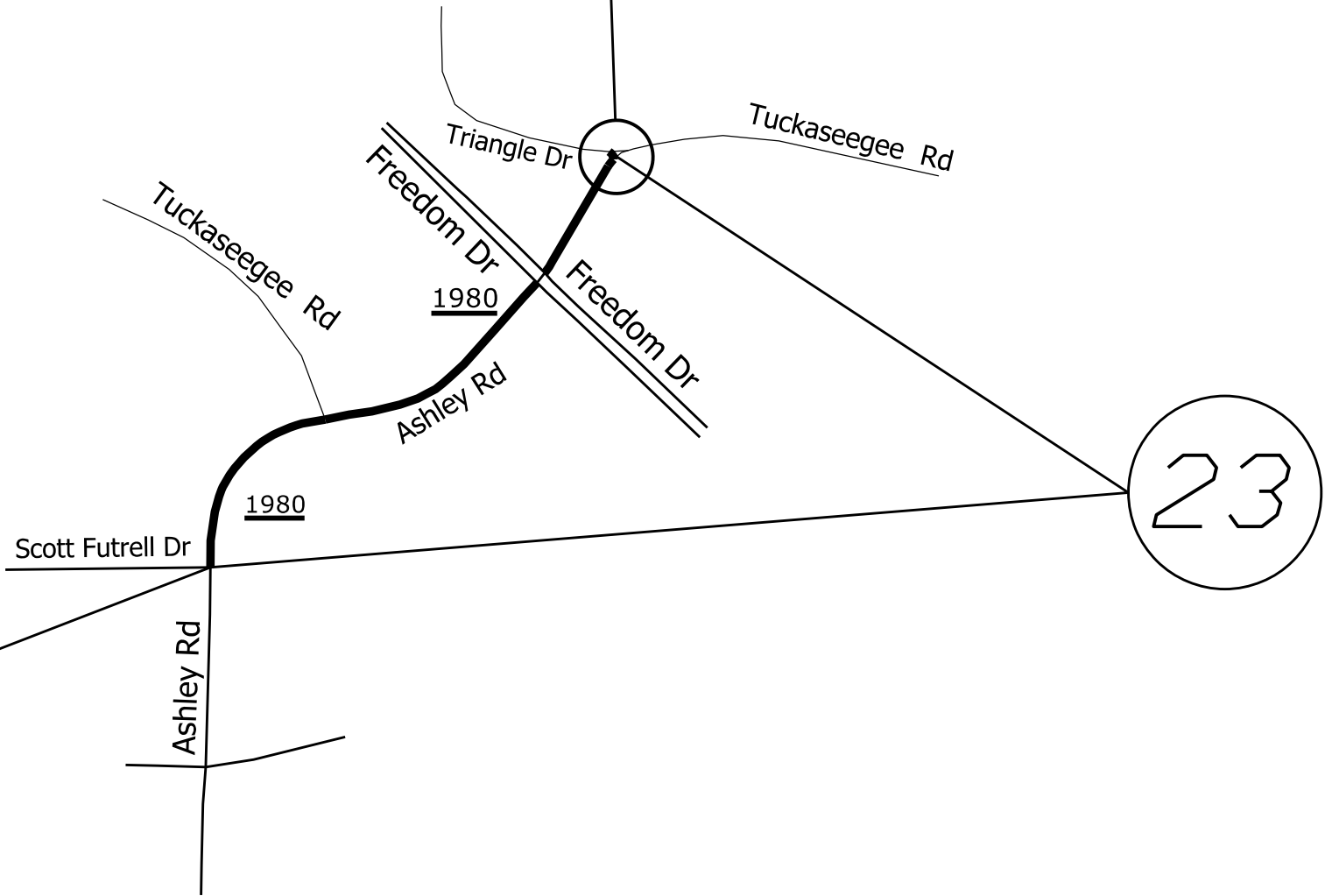
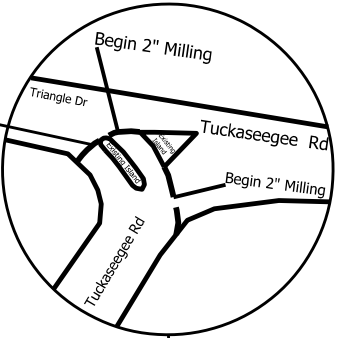
- # 18 SR 3585 SB N. WENDOVER ROAD FROM BRIDGE DECK AT US 74 TO MONROE RD.
- # 19 SR 3585 NB N. WENDOVER ROAD FROM MONROE RD. TO BRIDGE DECK AT US 74
- # 20 SR 2940 NB EASTWAY DRIVE FROM BRIDGE DECK AT US 74 TO END OF DIVIDE
- # 21 SR 2940 SB EASTWAY DRIVE FROM 0.03 MI. PRIOR TO CENTRAL AVE. TO BRIDGE DECK AT US 74
- # 22 SR 2940 NB EASTWAY DRIVE FROM BEGIN DIVIDE 0.09 MI. PRIOR TO CENTRAL AVE TO 0.03 MI. BEYOND CENTRAL AVE.

| <b>2023 MECKLENBURG COUNTY<br/>RESURFACING CONTRACT 1</b> |      |  |           |  |  |  |  |  |  |  |
|---|------|--|-----------|--|--|--|--|--|--|--|
| SCALE   | -NA- |   |           |  |  |  |  |  |  |  |
| DATE  | 8/18 |  |           |  |  |  |  |  |  |  |
| DWG. BY   | JHE  |  |           |  |  |  |  |  |  |  |
| DESIGN BY   | JHE  |  |           |  |  |  |  |  |  |  |
| APPROVED  |      |  |           |  |  |  |  |  |  |  |
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| REVISIONS   |      |  |           |  |  |  |  |  |  |  |
|   |      |  |           |  |  |  |  |  |  |  |
|   |      |  |           |  |  |  |  |  |  |  |
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|         |  |           |              |
|---------|--|-----------|--------------|
| STATE   | PROJECT NO.                                | SHEET NO. | TOTAL SHEETS |
| N.C.    |  |           |              |
| WBS NO. | 2023CPT.IO.07.I060I<br>2023CPT.IO.07.2060I |           |              |



BEGIN PAVING OPERATION AT NOSE OF EXISTING CONCRETE ISLAND



END PAVING OPERATION ON THE DEPARTURE SIDE OF SCOTT FUTRELL DR

MAP

# 23 SR 1980 ASHLEY ROAD

DESCRIPTION

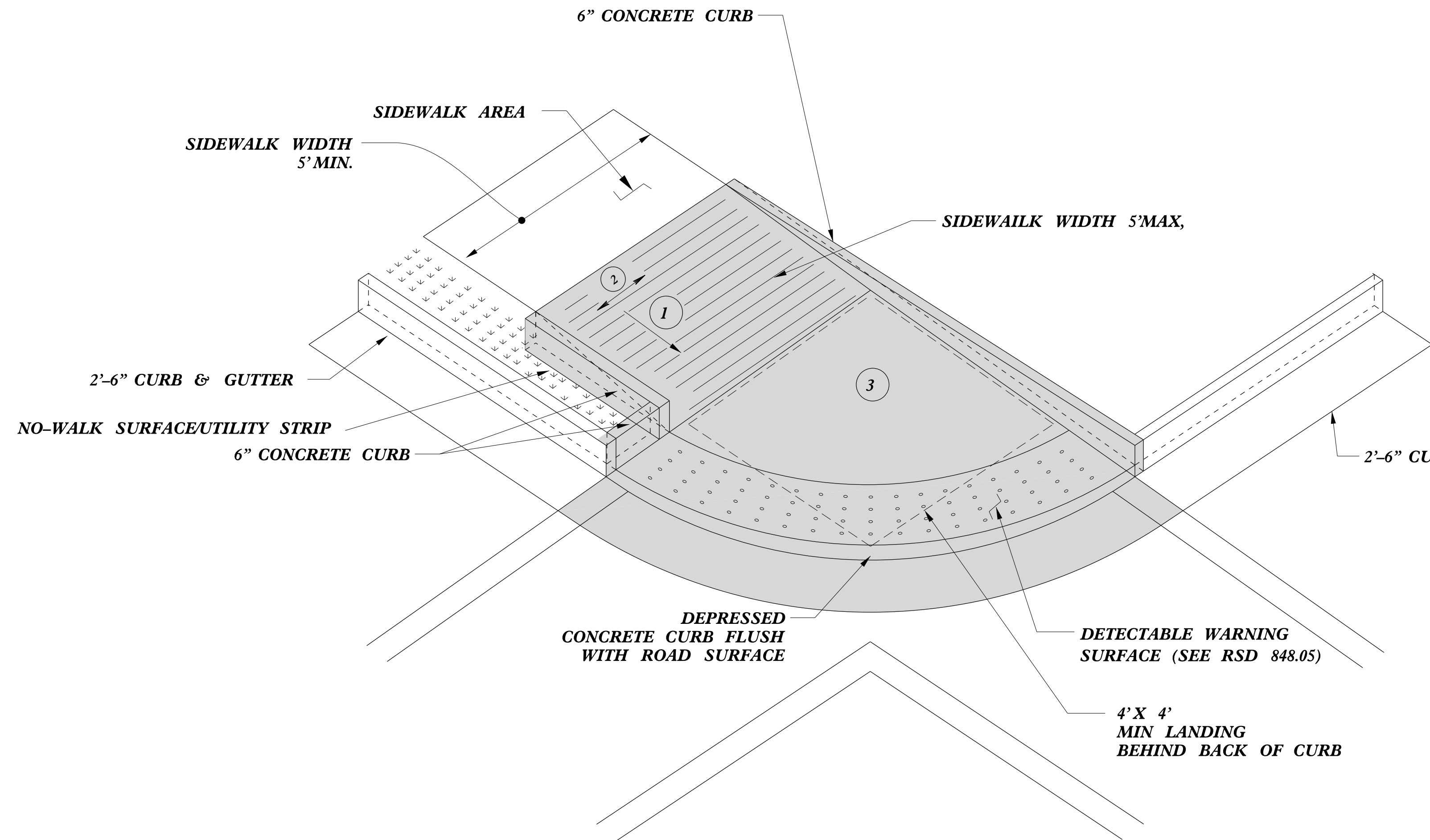
FROM TRIANGLE DRIVE TO SCOTT FUTRELL DRIVE

|   |      |  |           |
|---|------|--|-----------|
| 2023 MECKLENBURG COUNTY<br>RESURFACING CONTRACT 1 |      |  |           |
| SCALE   | -NA- |  | REVISIONS |
| DATE  | 8/18 |  |           |
| DWG. BY   | JME  |  |           |
| DESIGN BY   | JME  |  |           |
| APPROVED  |      |  |           |

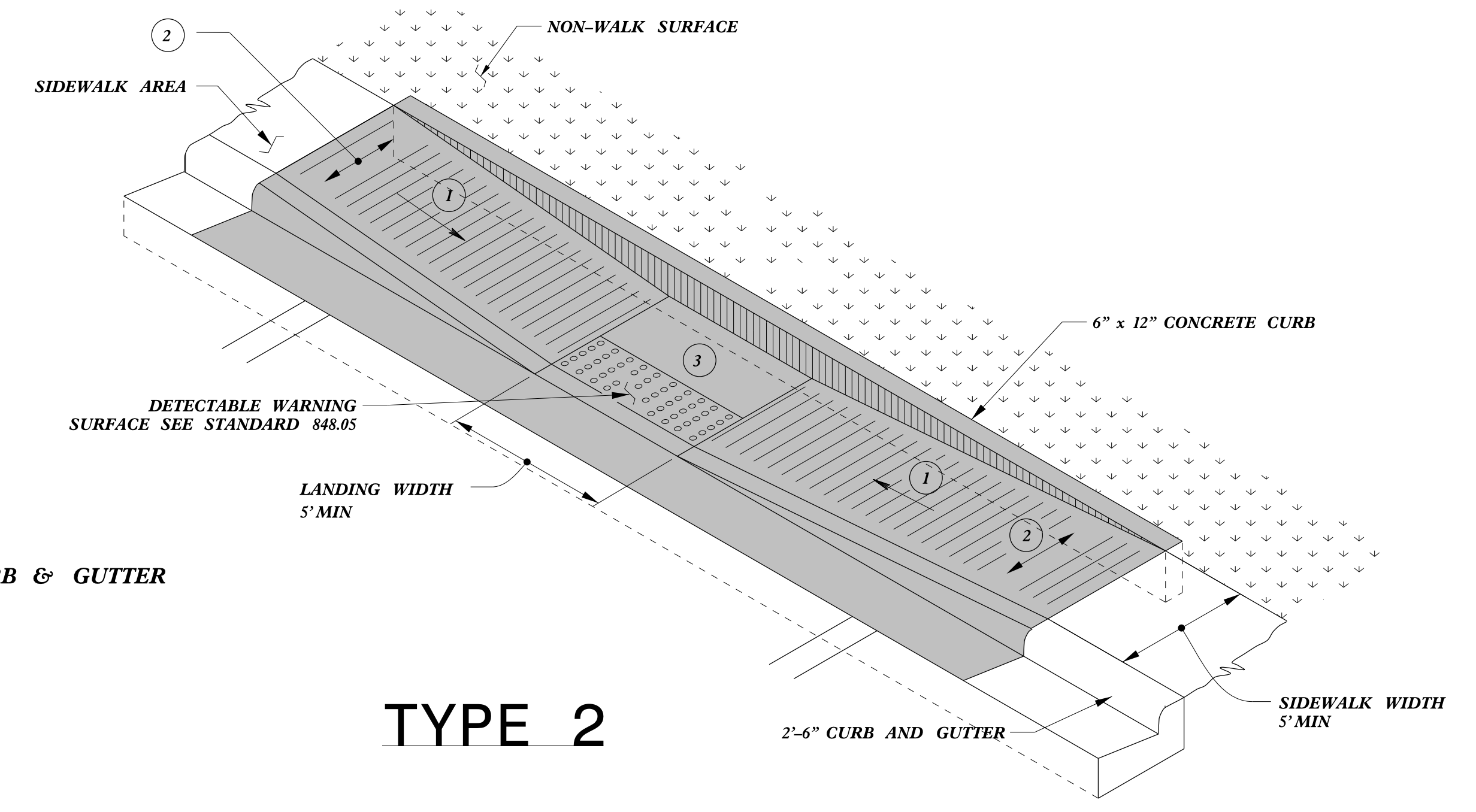




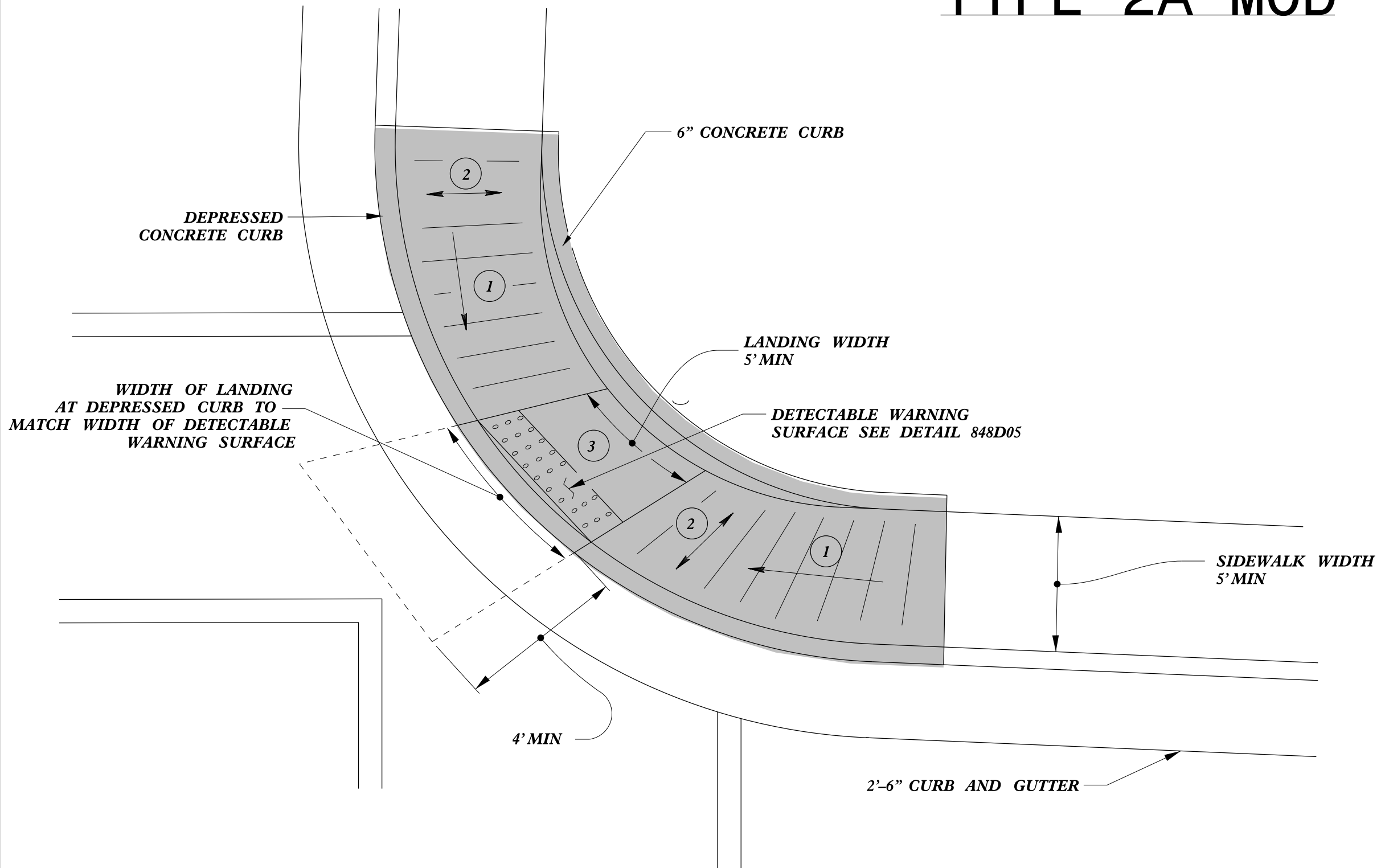
5/14/99



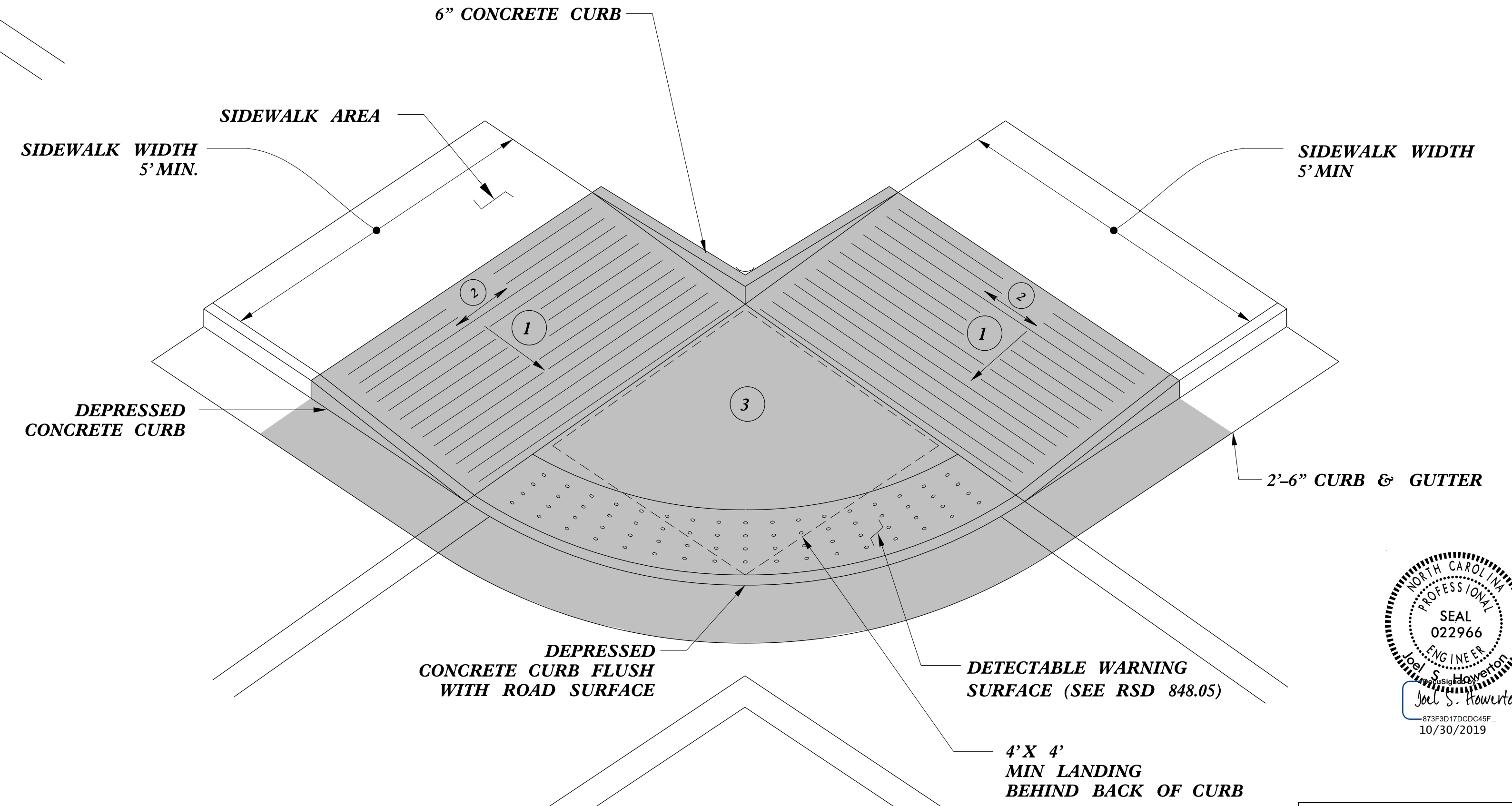
**TYPE 2A MOD**



**TYPE 2**



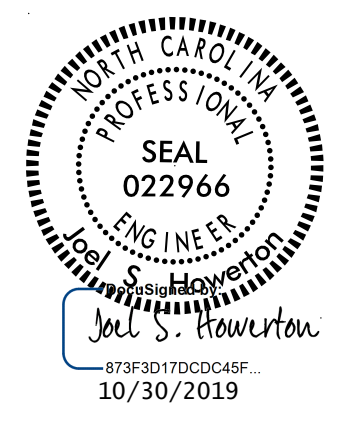
**TYPE 2B**



**TYPE 2A**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

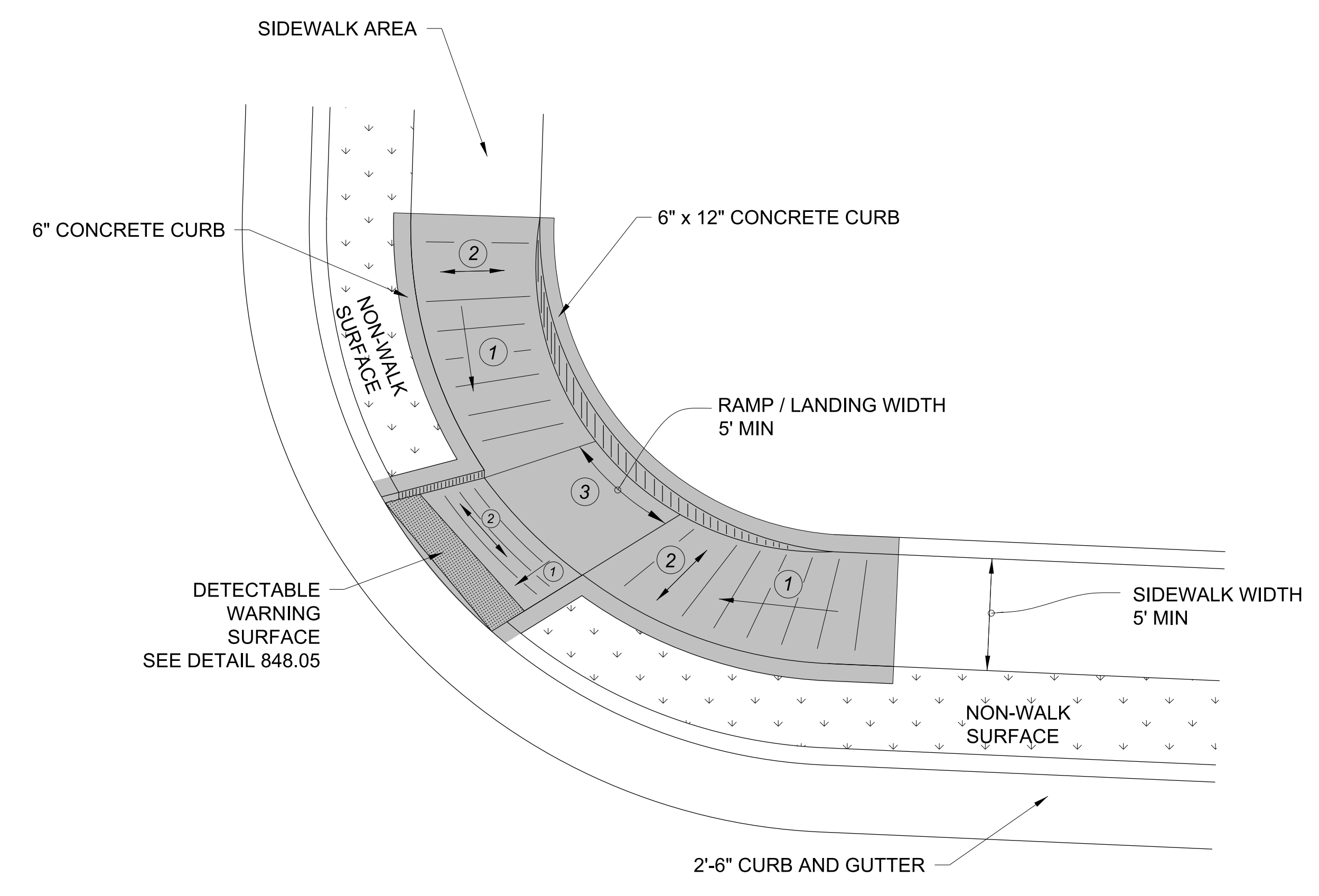


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

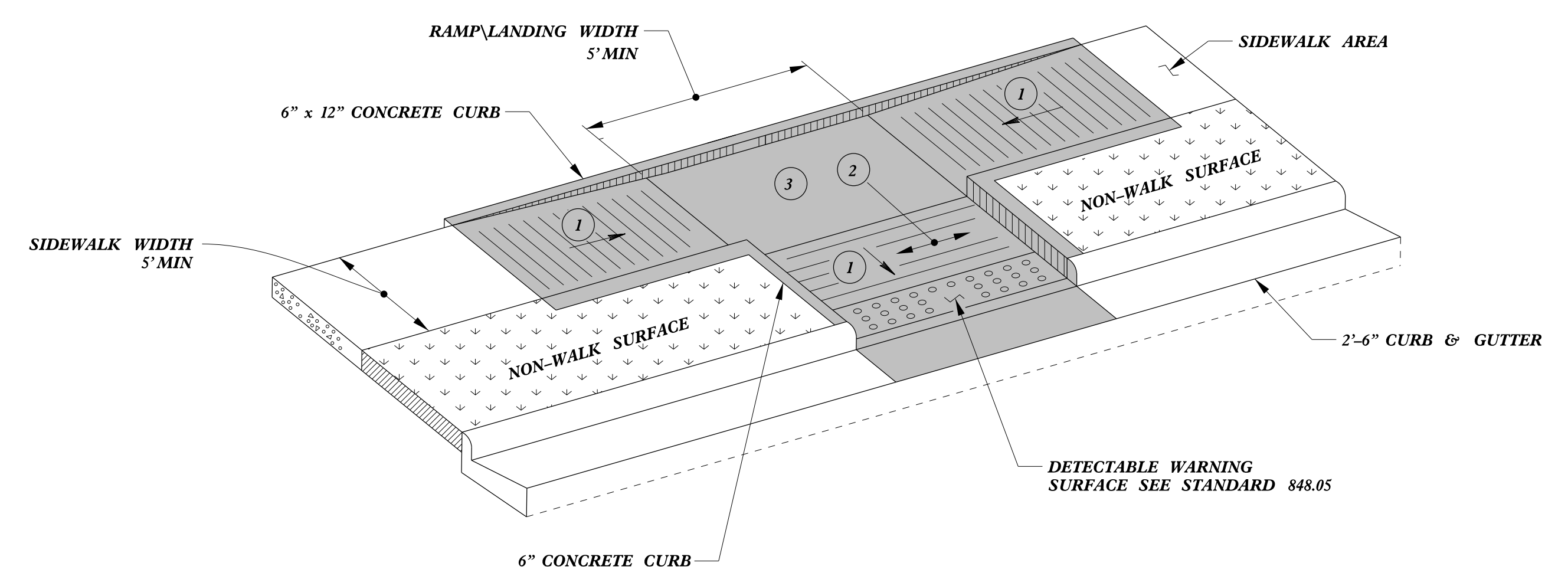
|   |                  |
|---|------------------|
| <b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>    |                  |
| Office 919-707-6950                               | FAX 919-250-4119 |
| <b>CURB RAMPS</b>                                 |                  |
| ORIGINAL BY: J.S. HOWERTON                        | DATE: 7/7/11     |
| MODIFIED BY:                                      | DATE:            |
| CHECKED BY:                                       | DATE:            |
| FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn |                  |

TIME TO CONSTRUCTION  
 CURB RAMPS

PAY LIMITS FOR 1 CURB RAMP

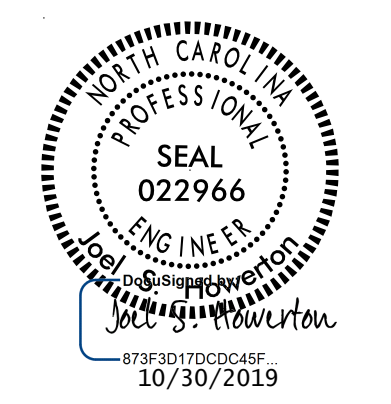


**TYPE 3 MODIFIED  
INSTALLATION IN A RADIUS**



**TYPE 3**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

|  |                  |
|--|------------------|
| <b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>   |                  |
| Office 919-707-6950                              | FAX 919-250-4119 |
| <b>CURB RAMPS</b>                                |                  |
| ORIGINAL BY: J.S. HOWERTON                       | DATE: 7/7/11     |
| MODIFIED BY:                                     | DATE:            |
| CHECKED BY:                                      | DATE:            |
| FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dgn |                  |

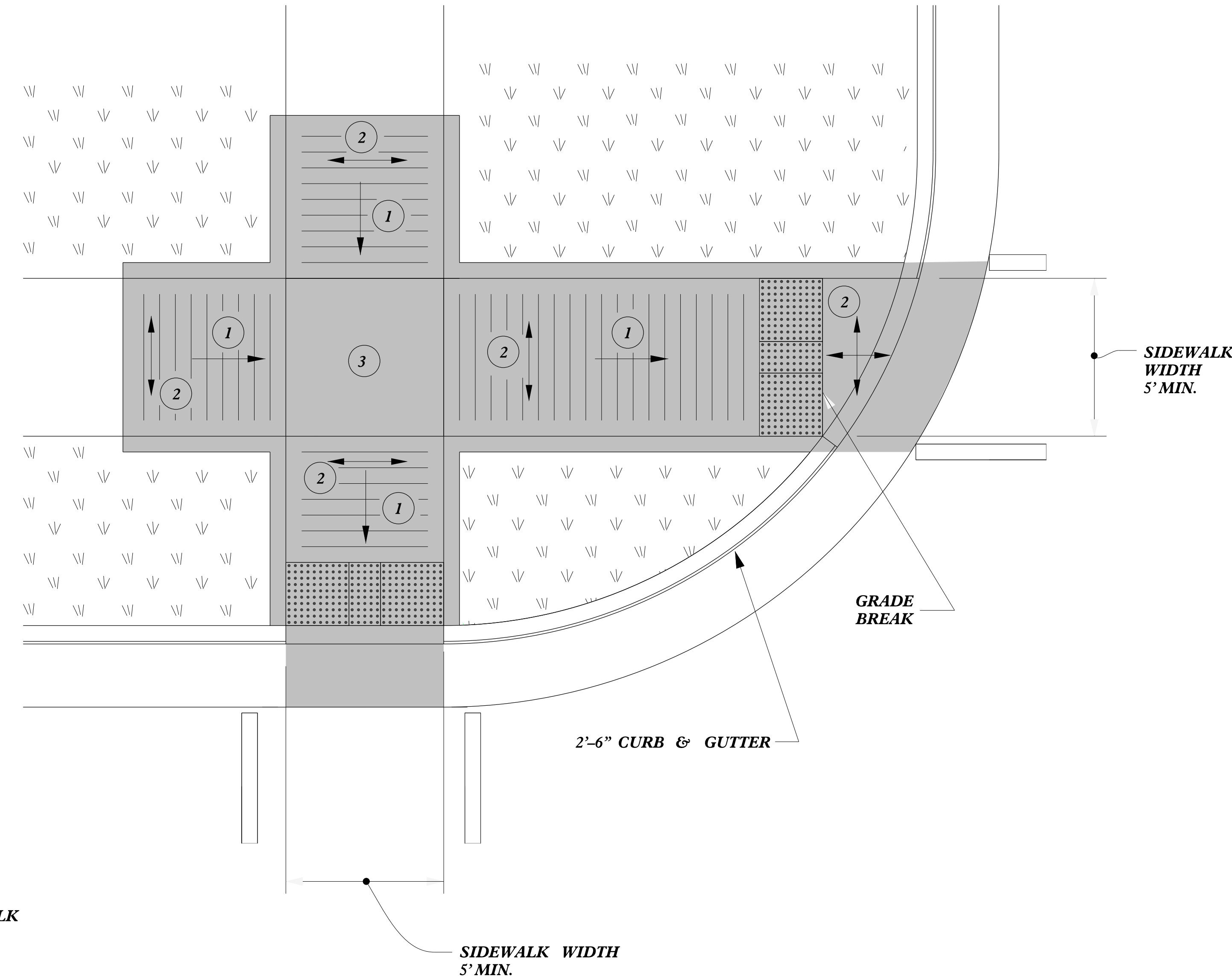
5/14/99  
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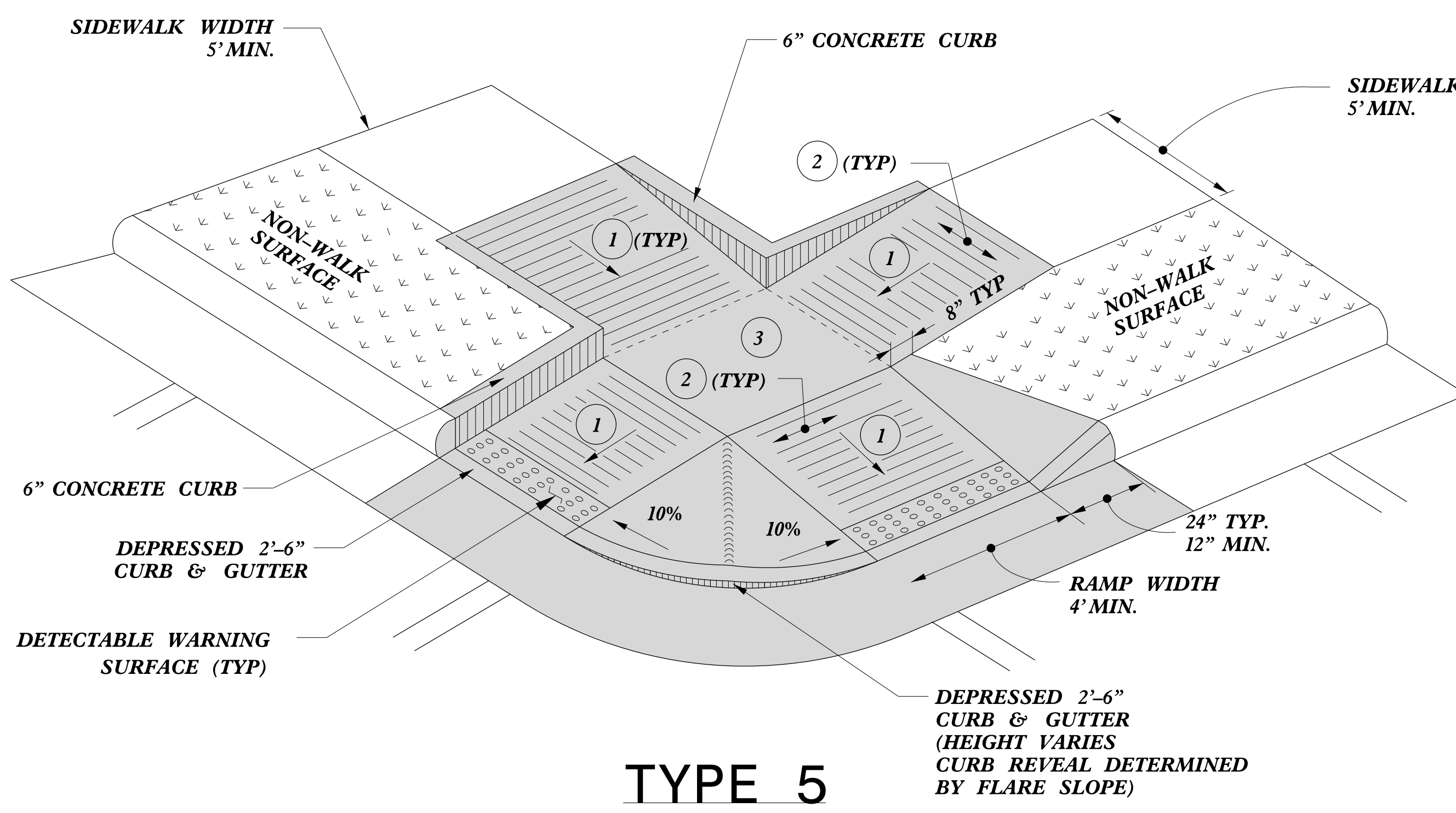




PAY LIMITS FOR 1 OR 2 CURB RAMPS  
(CALCULATE BASED ON NUMBER OF SETS  
OF TRUNCATED DOMES)

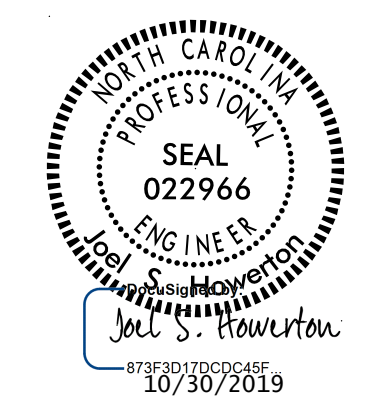


**TYPE 5A**



**TYPE 5**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**CURB RAMPS**

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11  
 MODIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99  
 TIME\$\$\$\$  
 C:\P\PROJECTS\2012\848.05\848.05.dwg  
 USER: JSHWERTON  
 PLOT DATE: 10/30/2019

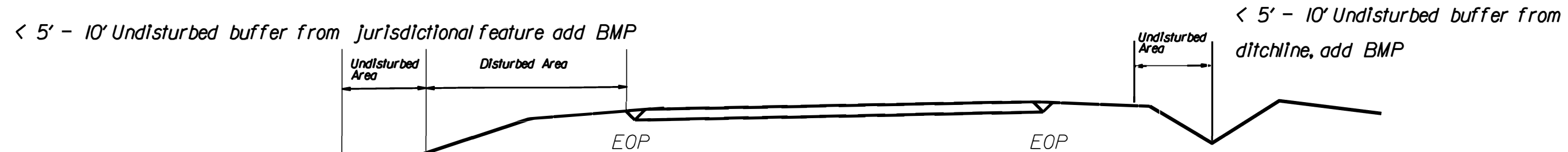
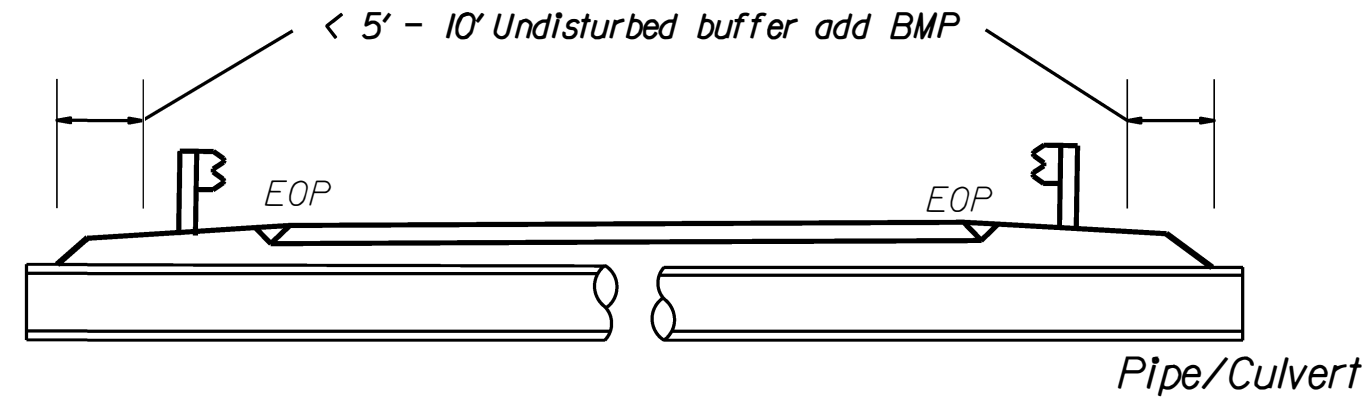




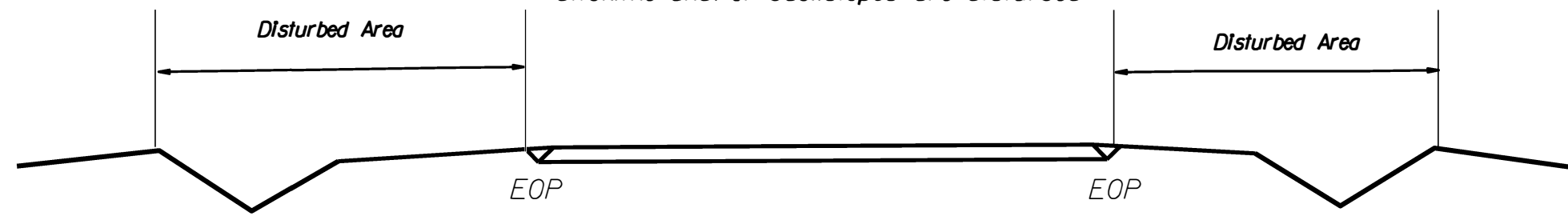
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

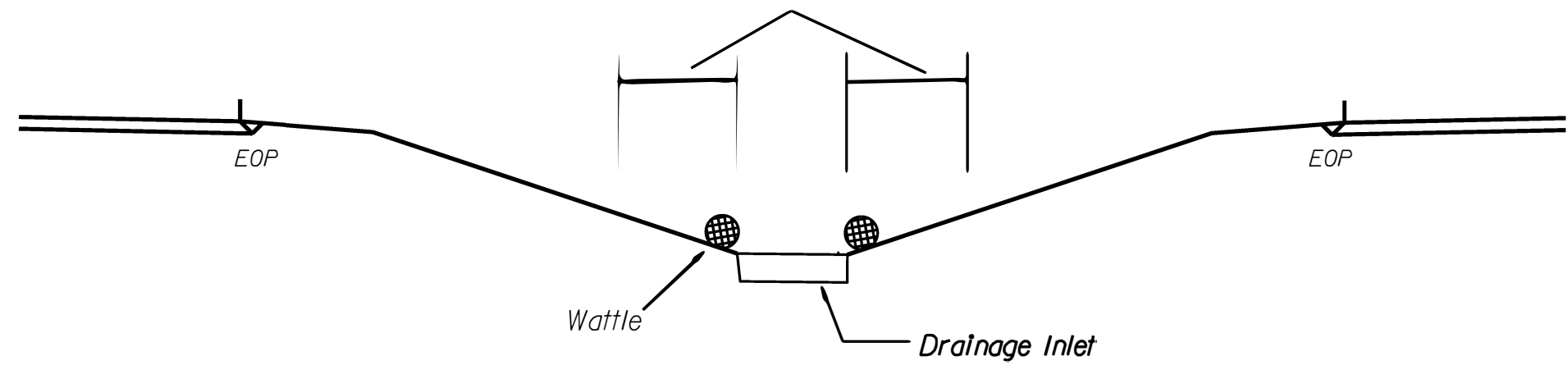
# EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



< 5' - 10' Undisturbed buffer from inlet, add wattle

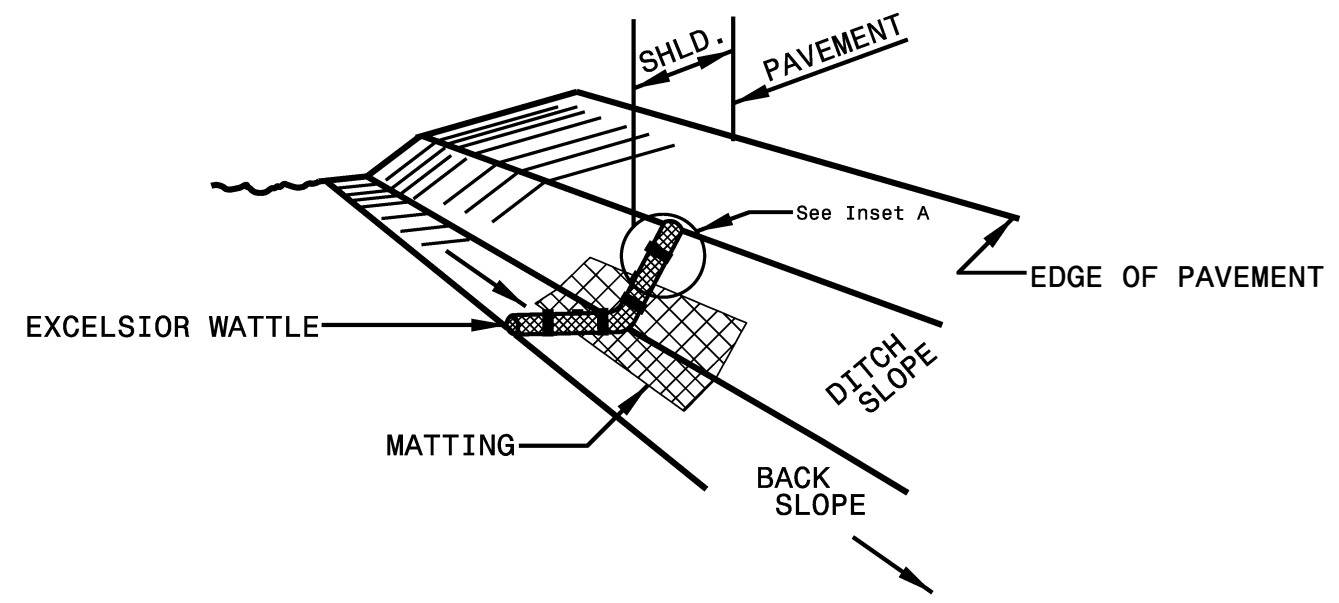


NOT TO SCALE

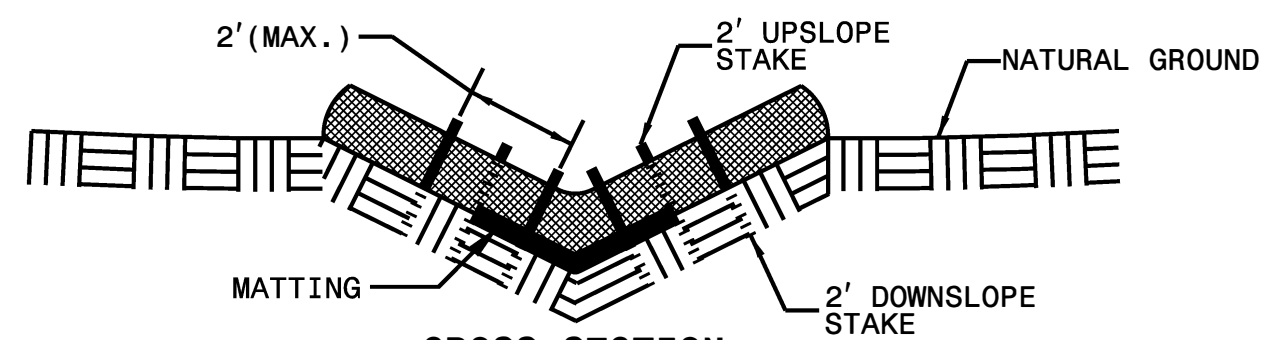
# WATTLE WITH POLYACRYLAMIDE DETAIL

**NOTES:**

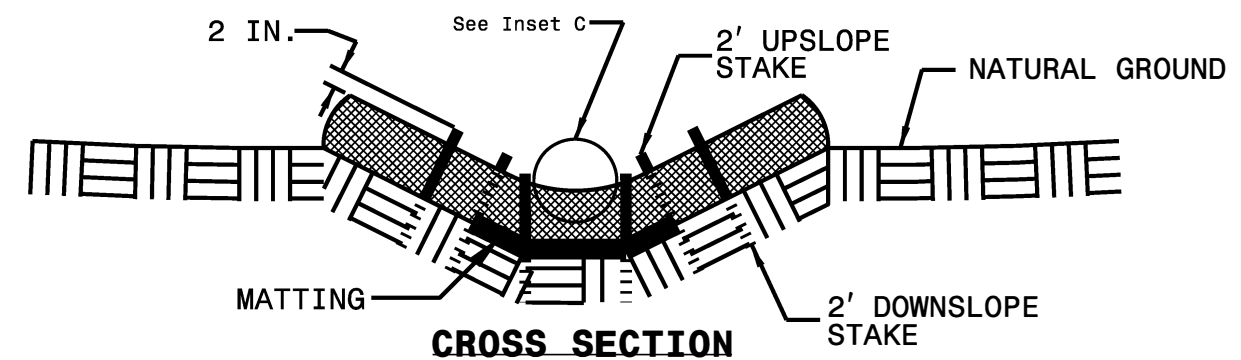
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



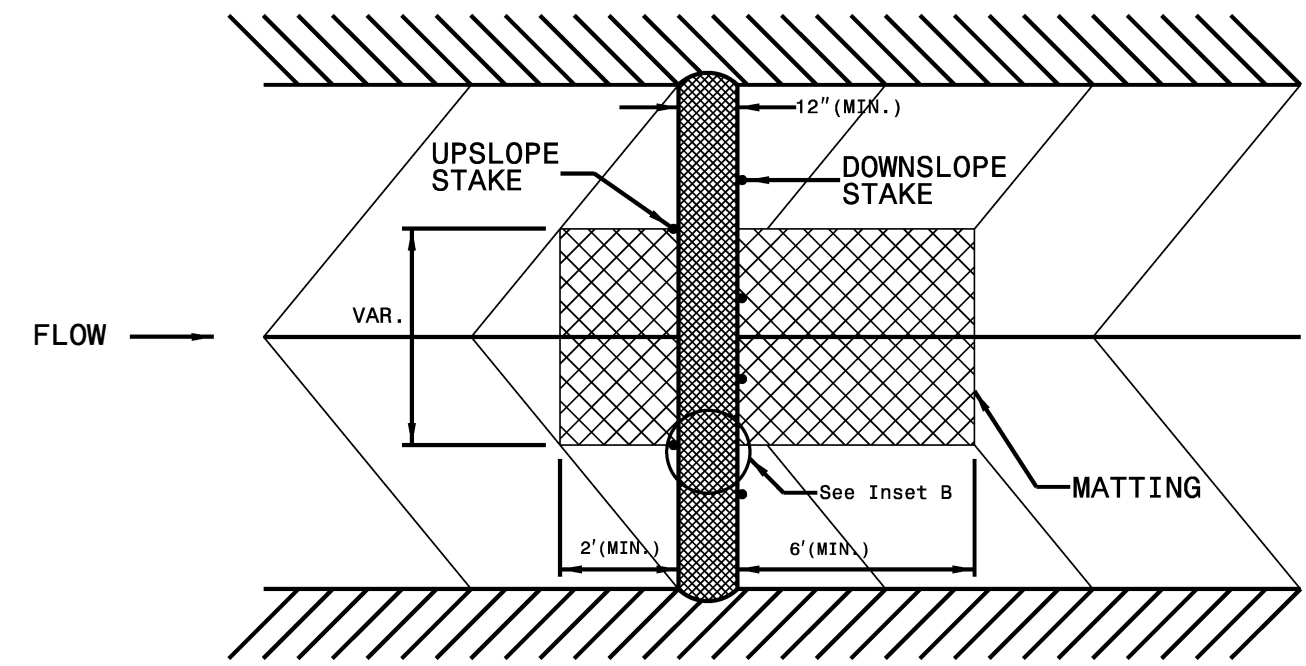
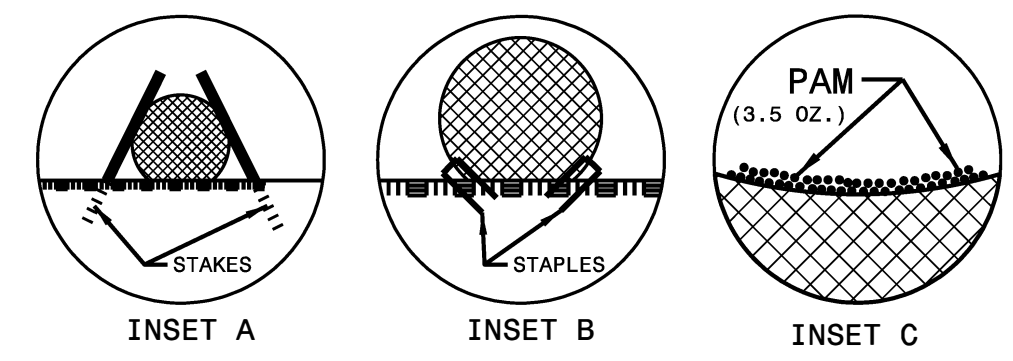
**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**

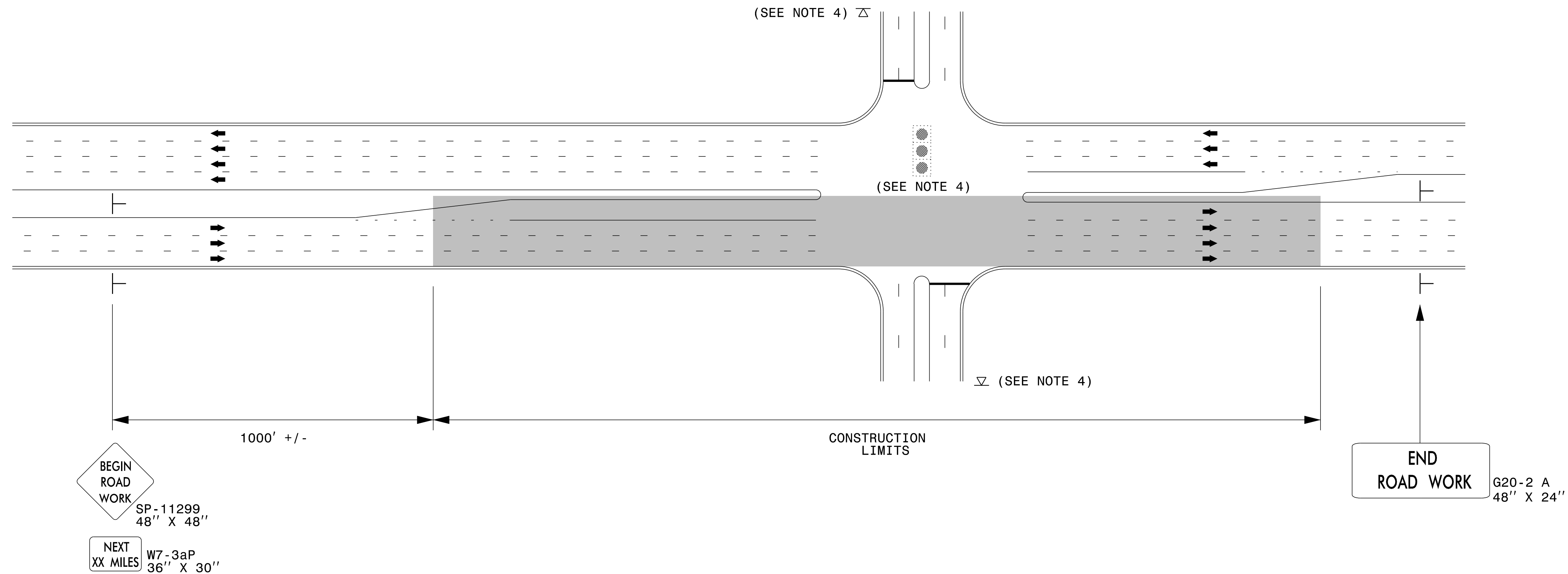


**CROSS SECTION TRAPEZOIDAL DITCH**



**TOP VIEW**

## URBAN / SUBURBAN WORKZONES

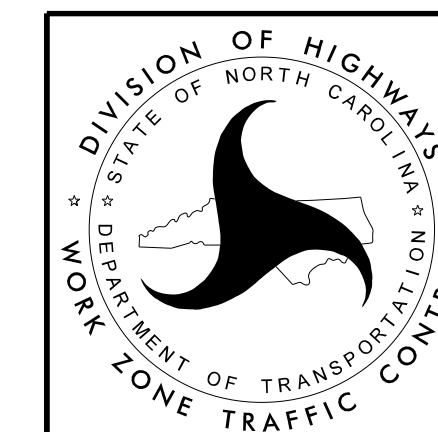


### NOTES:

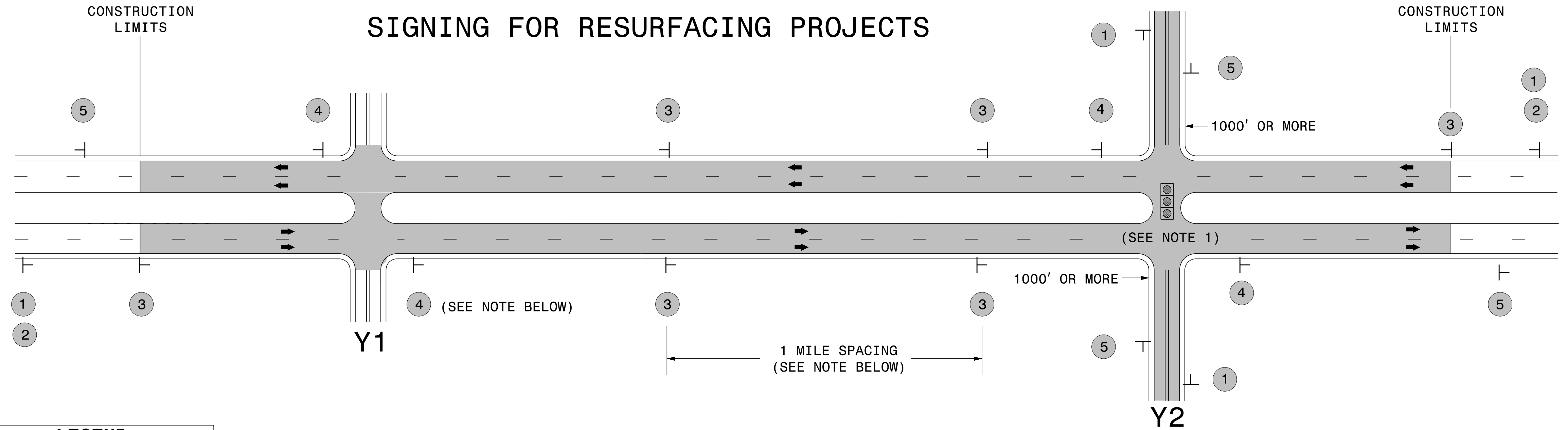
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

### LEGEND

- ├ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW



**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
FACILITIES**



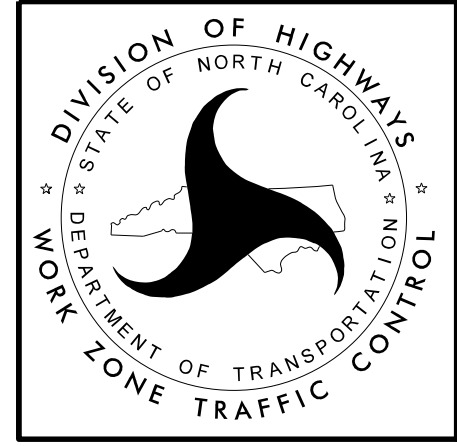
**LEGEND**  
 ┆ STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

**MAINLINE (-L-) SIGNING**

**-Y- LINE SIGNING**

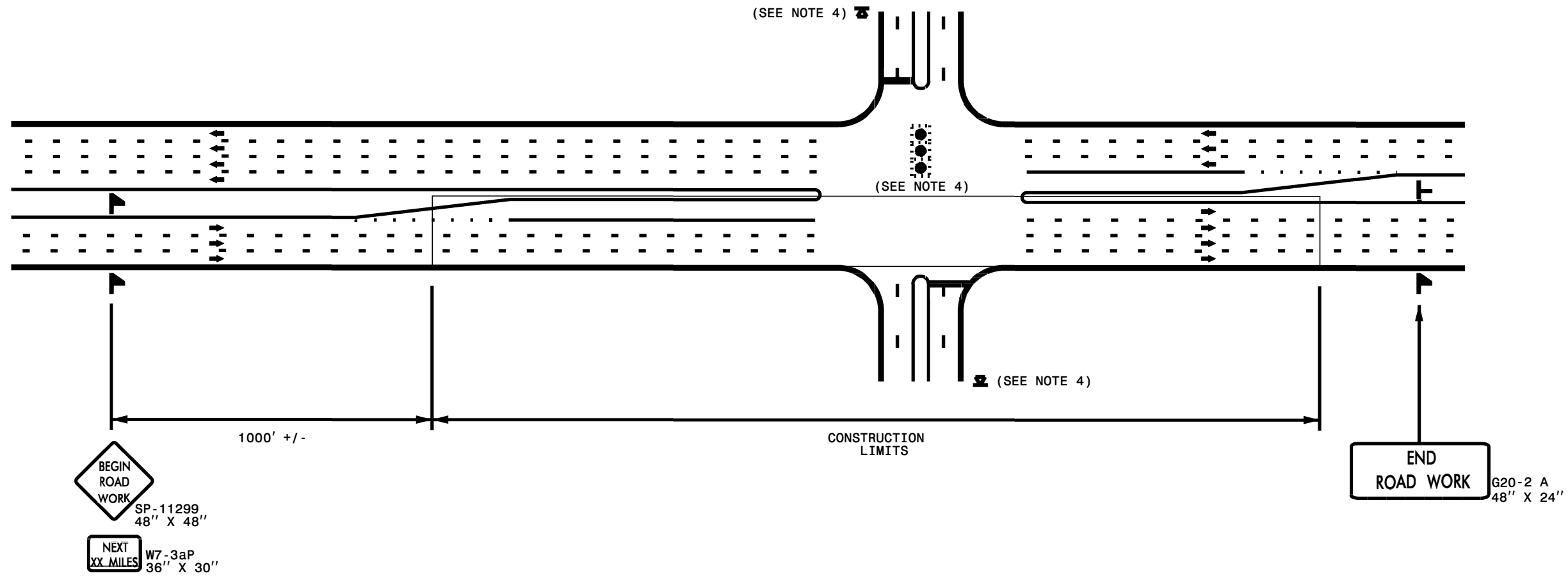
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|---|------|--|---|
| SIGNING NOTES AND PLACEMENT PER DIRECTION | <br> | <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>  | <p><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <br/> <small>W20-1<br/>48" X 48"</small> </div> <div style="text-align: center;"> <br/> <small>W20-7 A<br/>48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.</li> </ol> |
|   |      | <p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>   |   |
|   |      | <p>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p> |   |
|   |      | <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>  |   |

3/23/2015  
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**RESURFACING  
 ADVANCE WARNING SIGNS  
 FOR RURAL AND SUBURBAN  
 MULTI-LANE ROADWAYS  
 W/ SHOULDER SECTIONS**

## URBAN / SUBURBAN WORKZONES



**NOTES:**

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
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| LEGEND |                           |
|--------|---------------------------|
|        | STATIONARY SIGN           |
|        | DIRECTION OF TRAFFIC FLOW |



**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
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