

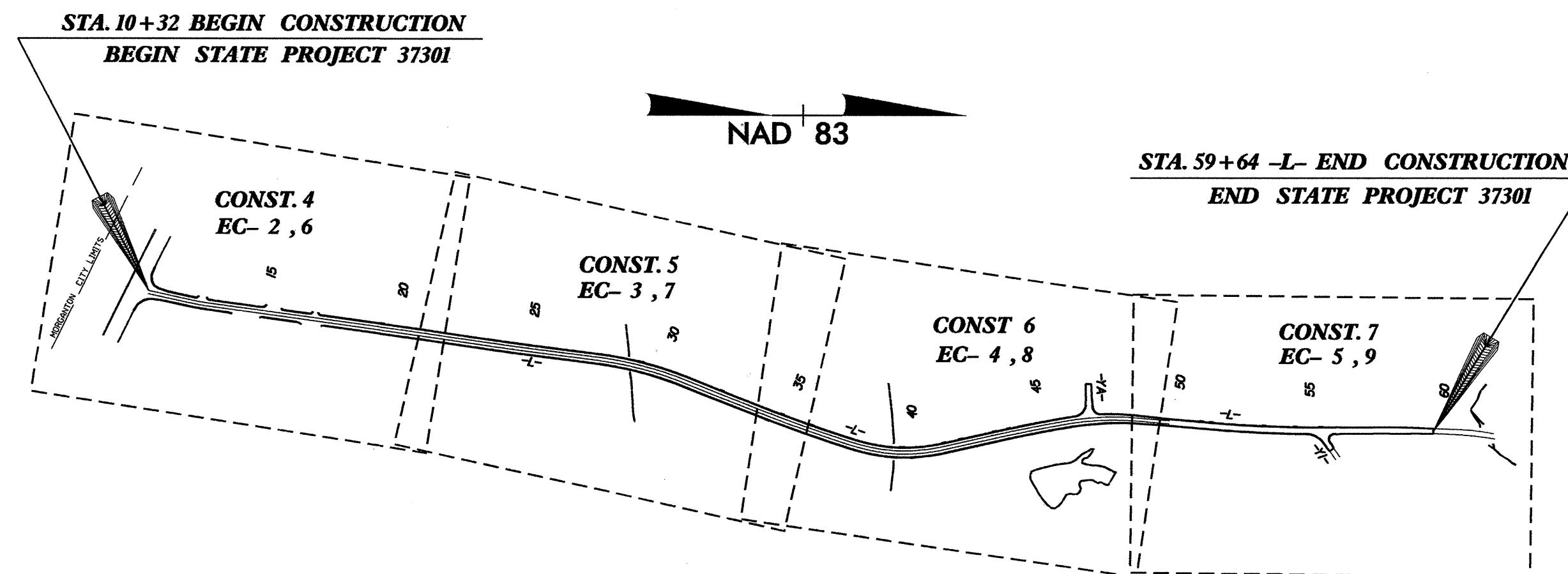
TIP PROJECT: 37301

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

BURKE COUNTY

**LOCATION: BOST ROAD SR 1419 FORM THE INTERSECTION OF N.C.
 181, TO 409 FEET NORTH OF LOST CORNER RD. SR 1421.**

**TYPE OF WORK: GRADING, DRAINAGE, WIDENING, CURB AND
 GUTTER, PAVING AND THERMOPLASTIC
 PAVEMENT MARKINGS**



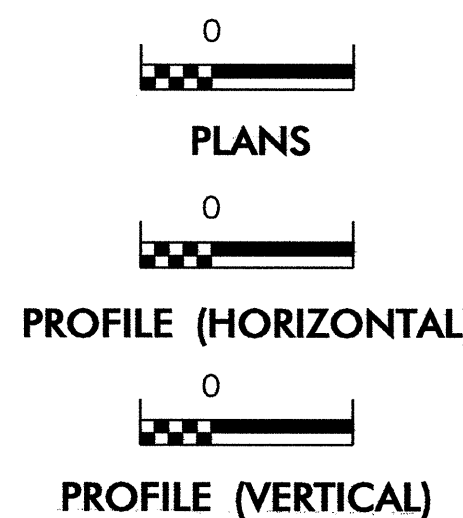
| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | 37301 | EC-1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 37301 | | PE,RW,UTL | |
| 37301 | | CONST | |
| | | | |
| | | | |
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| | | | |

EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---------|--------------------------------------|--------|
| | Streambank Reforestation | |
| 1630.03 | Temporary Silt Ditch | |
| 1630.05 | Temporary Diversion | |
| 1605.01 | Temporary Silt Fence | |
| 1606.01 | Special Sediment Control Fence | |
| 1622.01 | Temporary Berms and Slope Drains | |
| 1630.01 | Riser Basin | |
| 1630.02 | Silt Basin Type B | |
| 1633.01 | Temporary Rock Silt Check Type-A | |
| | Temporary Rock Silt Check Type-B | |
| 1634.01 | Temporary Rock Sediment Dam Type-A | |
| 1634.02 | Temporary Rock Sediment Dam Type-B | |
| 1635.01 | Rock Pipe Inlet Sediment Trap Type-A | |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B | |
| 1630.04 | Stilling Basin | |
| | Rock Inlet Sediment Trap: | |
| 1632.01 | Type A | |
| 1632.02 | Type B | |
| 1632.03 | Type C | |

**THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.**

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
 Division of Highways:
DIVISION 13, DDC UNIT
 55 Orange St.
 Asheville, NC 28802
2006 STANDARD SPECIFICATIONS

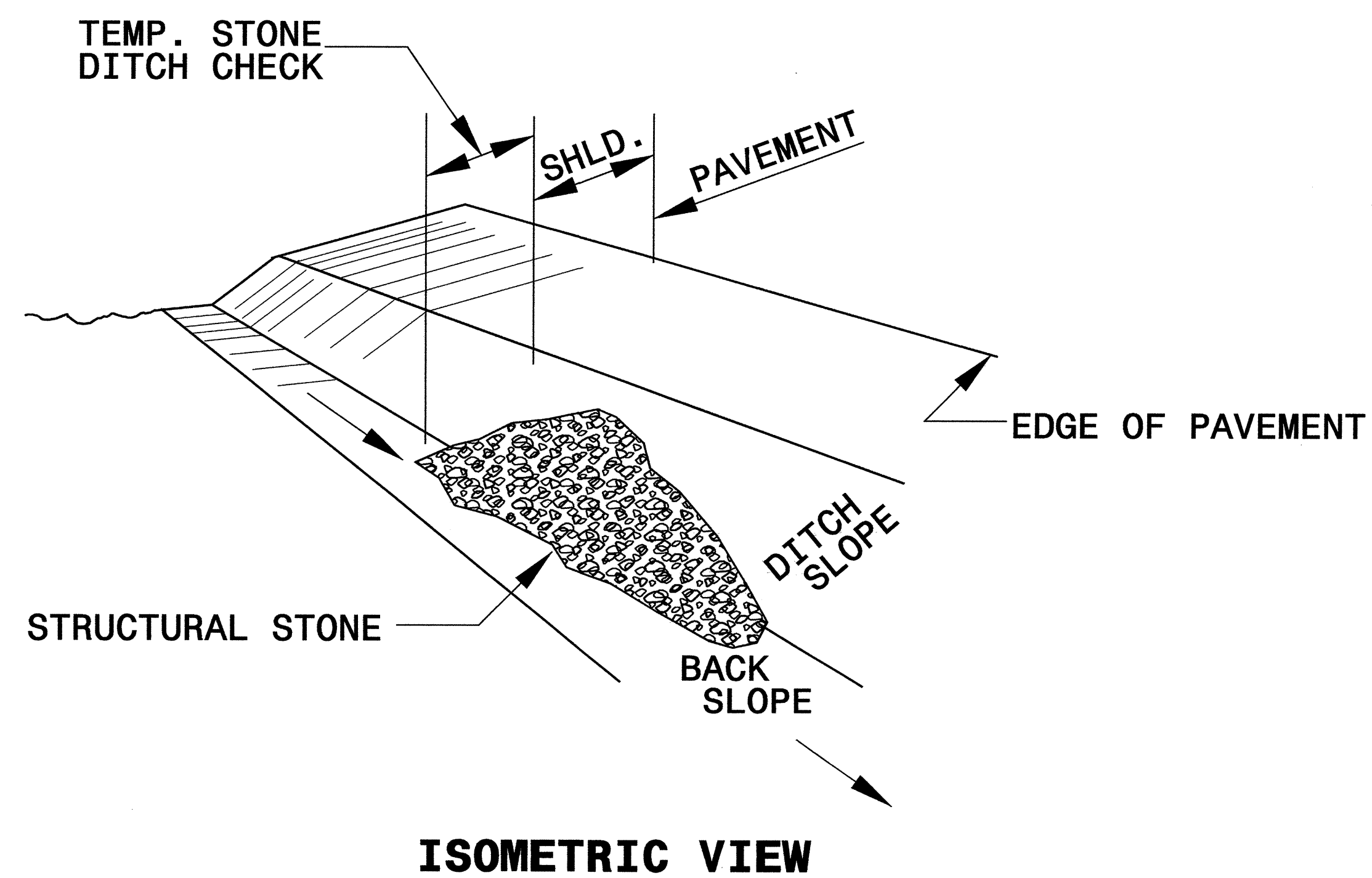
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

| | |
|--|--|
| 1605.01 Temporary Silt Fence | 1630.06 Special Stilling Basin |
| 1607.01 Gravel Construction Entrance | 1632.03 Rock Inlet Sediment Trap Type C |
| 1622.01 Temporary Berms and Slope Drains | 1633.01 Temporary Rock Silt Check Type A |
| 1630.02 Silt Basin Type B | 1634.02 Temporary Rock Sediment Dam Type B |
| 1630.03 Temporary Silt Ditch | 1635.02 Rock Pipe Inlet Sediment Trap Type B |
| 1630.05 Temporary Diversion | |

| | |
|--------------------------------|---------------------|
| PROJECT REFERENCE NO. 37301 | SHEET NO. EC-2 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

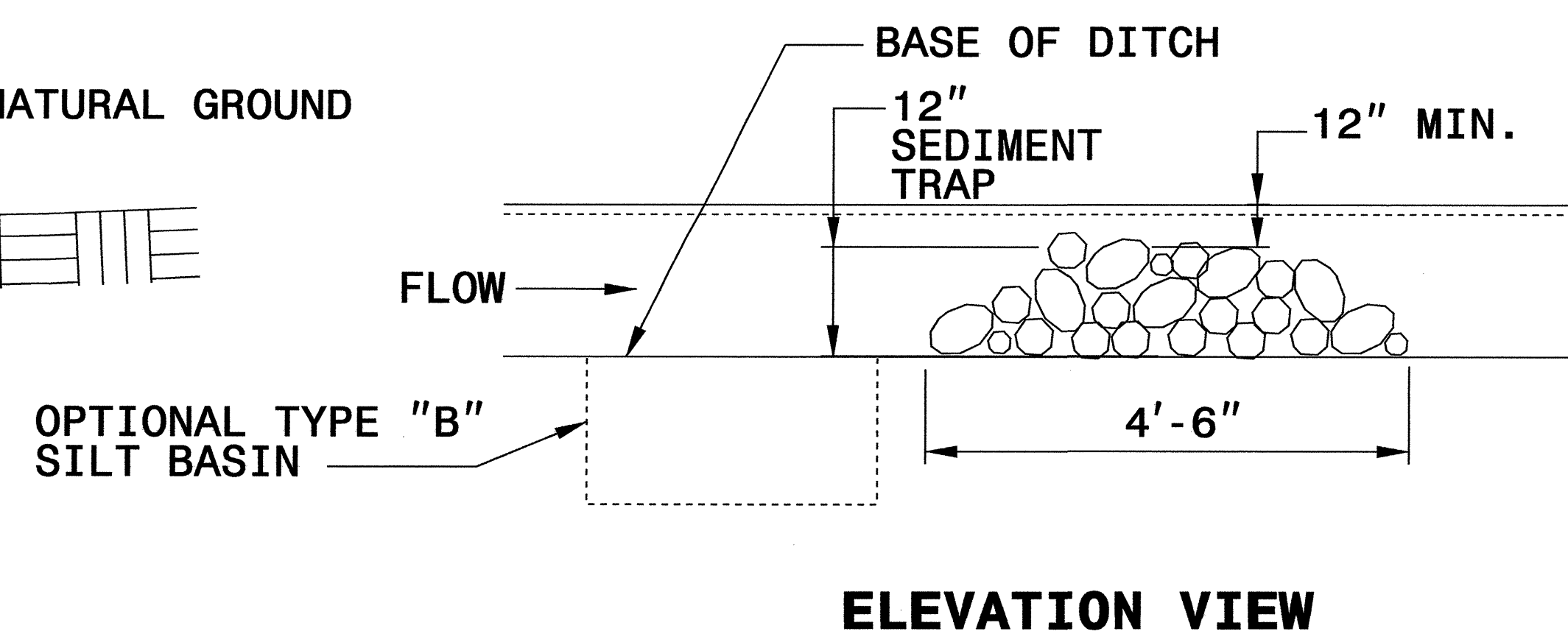
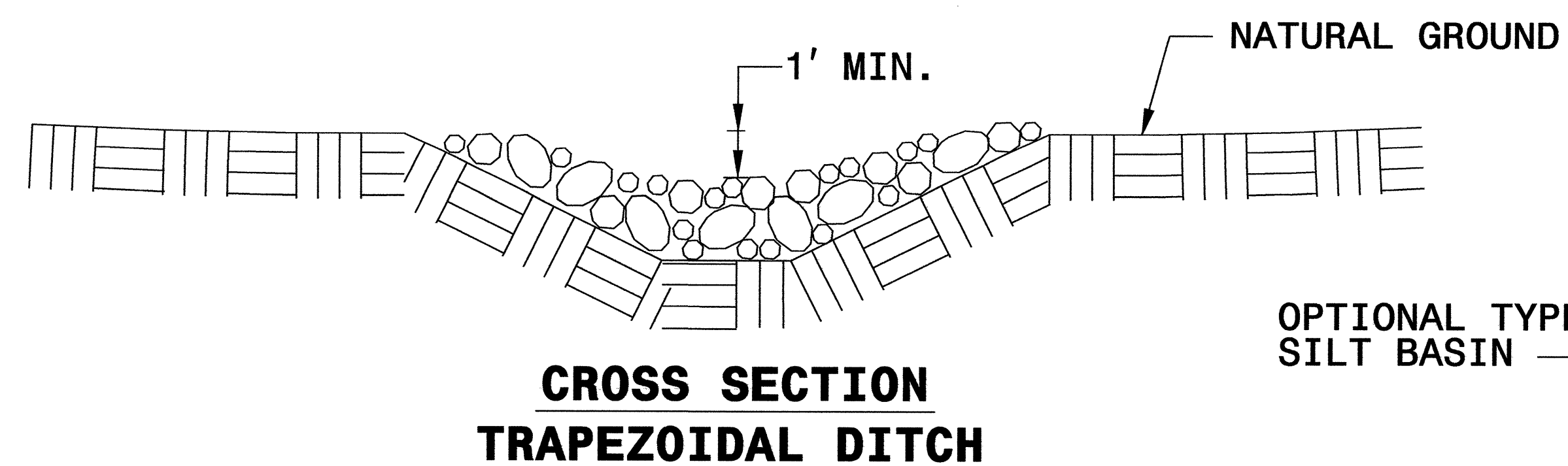
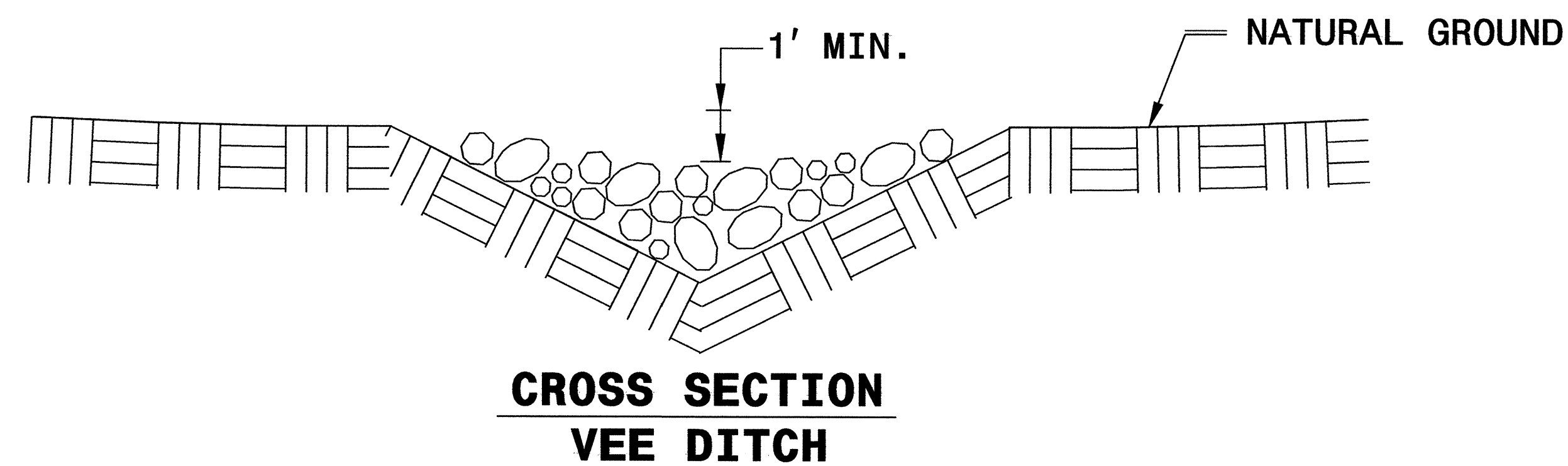
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

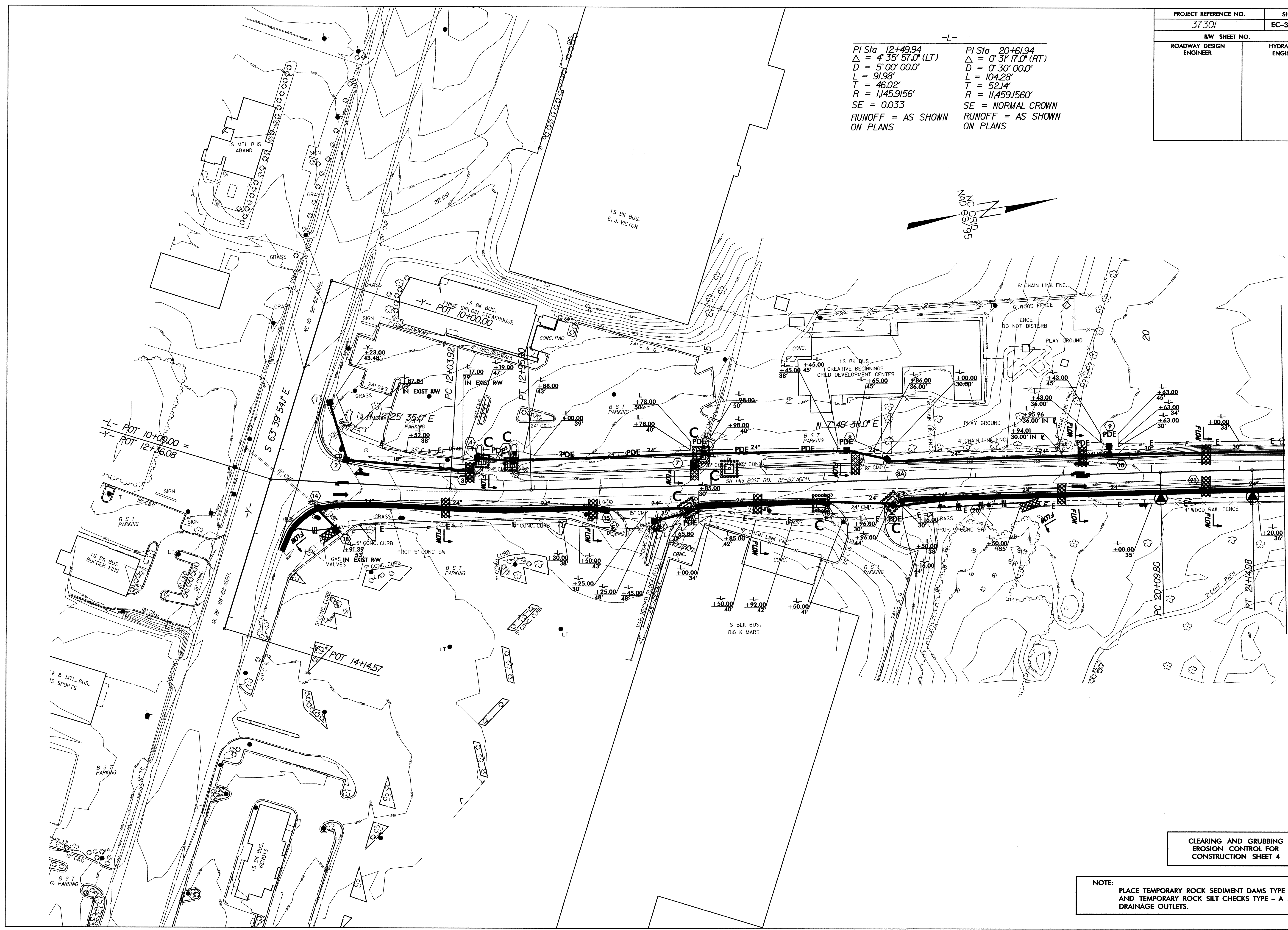
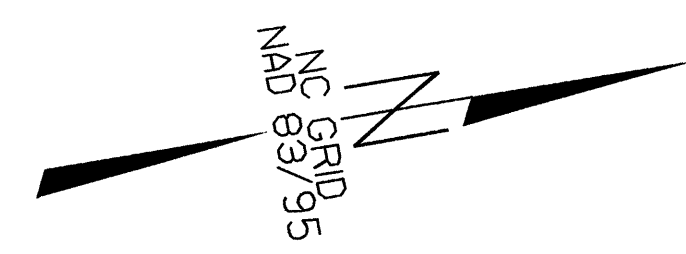
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



| | | | |
|-------------------------|--|---------------------|--|
| PROJECT REFERENCE NO. | | SHEET NO. | |
| 37301 | | EC-3/CONST.4 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |

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| | |
|-------------------------------------|-------------------------------------|
| PI Sta 12+49.94 | PI Sta 20+61.94 |
| $\Delta = 4^{\circ} 35' 57.0"$ (LT) | $\Delta = 0^{\circ} 31' 17.0"$ (RT) |
| D = 5' 00' 00.0" | D = 0' 30' 00.0" |
| L = 91.98' | L = 104.28' |
| T = 46.02' | T = 52.14' |
| R = 1,459.156' | R = 11,459.1560' |
| SE = 0.033 | SE = NORMAL CROWN |
| RUNOFF = AS SHOWN ON PLANS | RUNOFF = AS SHOWN ON PLANS |



MATCH LINE 21+50 SEE SHEET 5

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 37301 | EC-4CONST.5 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

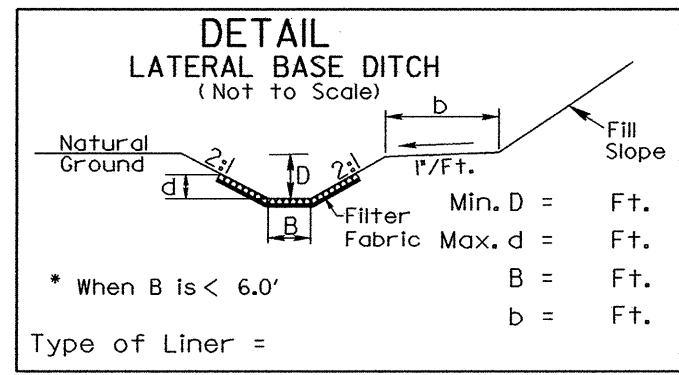
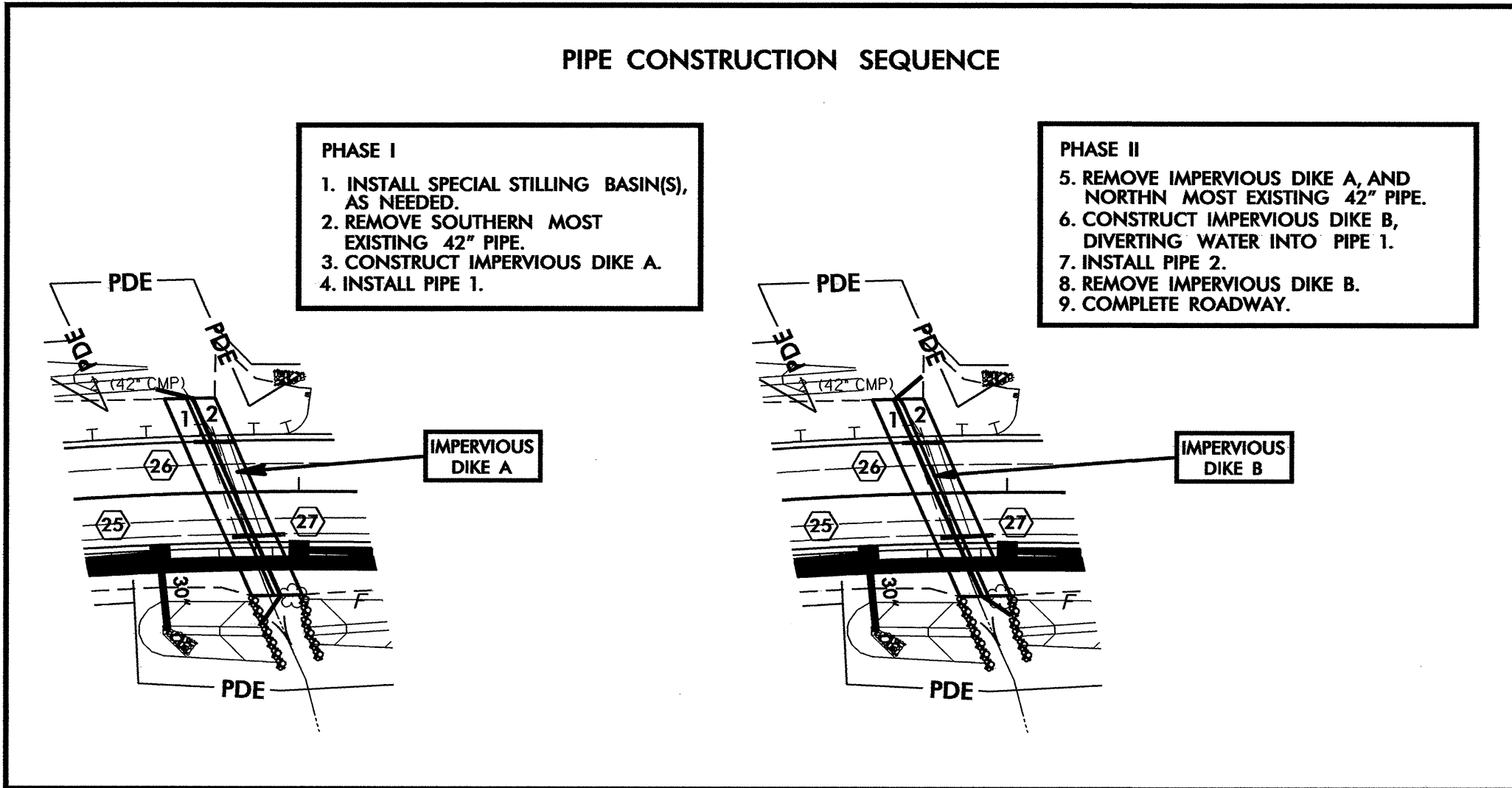
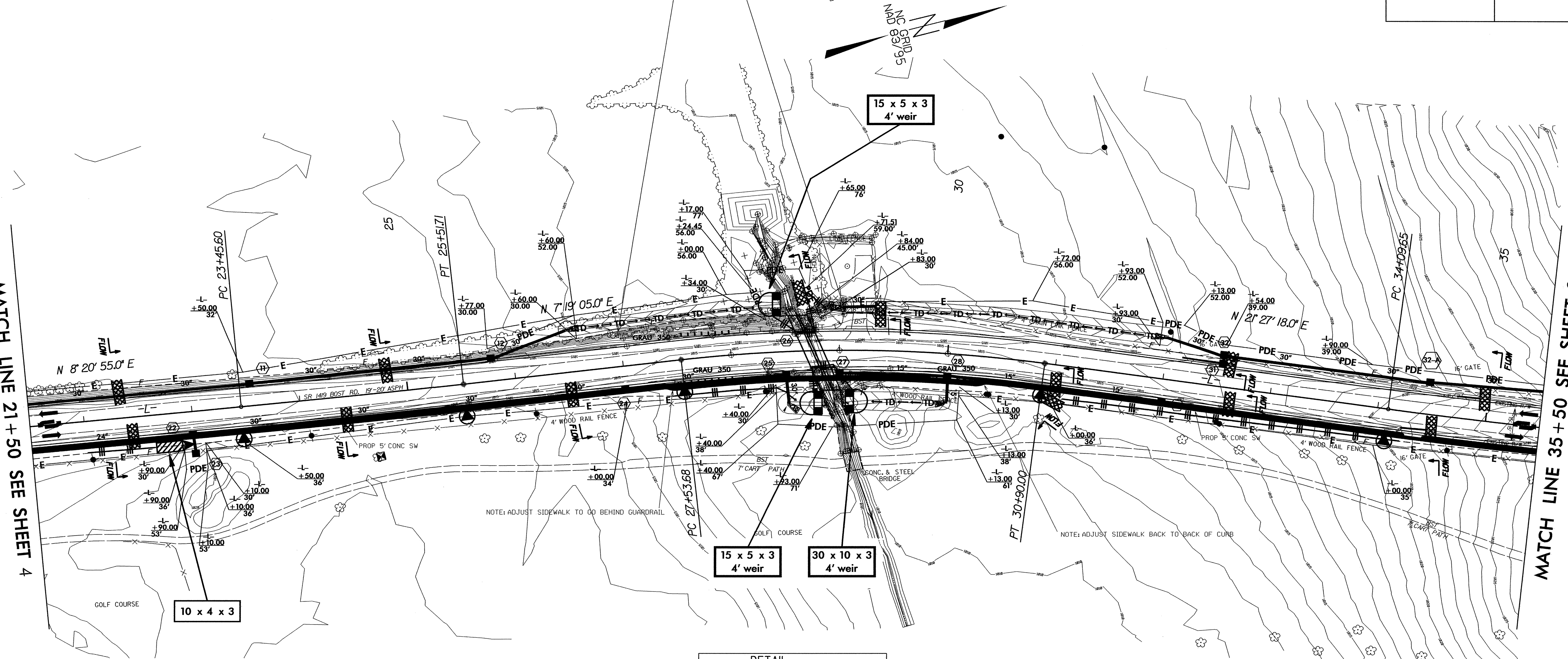
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

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| | |
|--|--|
| PI Sta 24+48.66 Δ = 1° 01' 50.0" (LT) D = 0° 30' 00.0" L = 206.11' T = 103.06' R = 11,459.1560' | PI Sta 29+22.70 Δ = 14° 08' 13.0" (RT) D = 4° 12' 12.0" L = 336.33' T = 169.02' R = 1,363.1034' |
| SE = NORMAL CROWN RUNOFF = AS SHOWN ON PLANS | SE = 0.037 RUNOFF = AS SHOWN ON PLANS |

MATCH LINE 21+50 SEE SHEET 4

MATCH LINE 35+50 SEE SHEET 6



| | | | |
|-------------------------|--|---------------------|--|
| PROJECT REFERENCE NO. | | SHEET NO. | |
| 37301 | | EC-5/CONST.6 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |

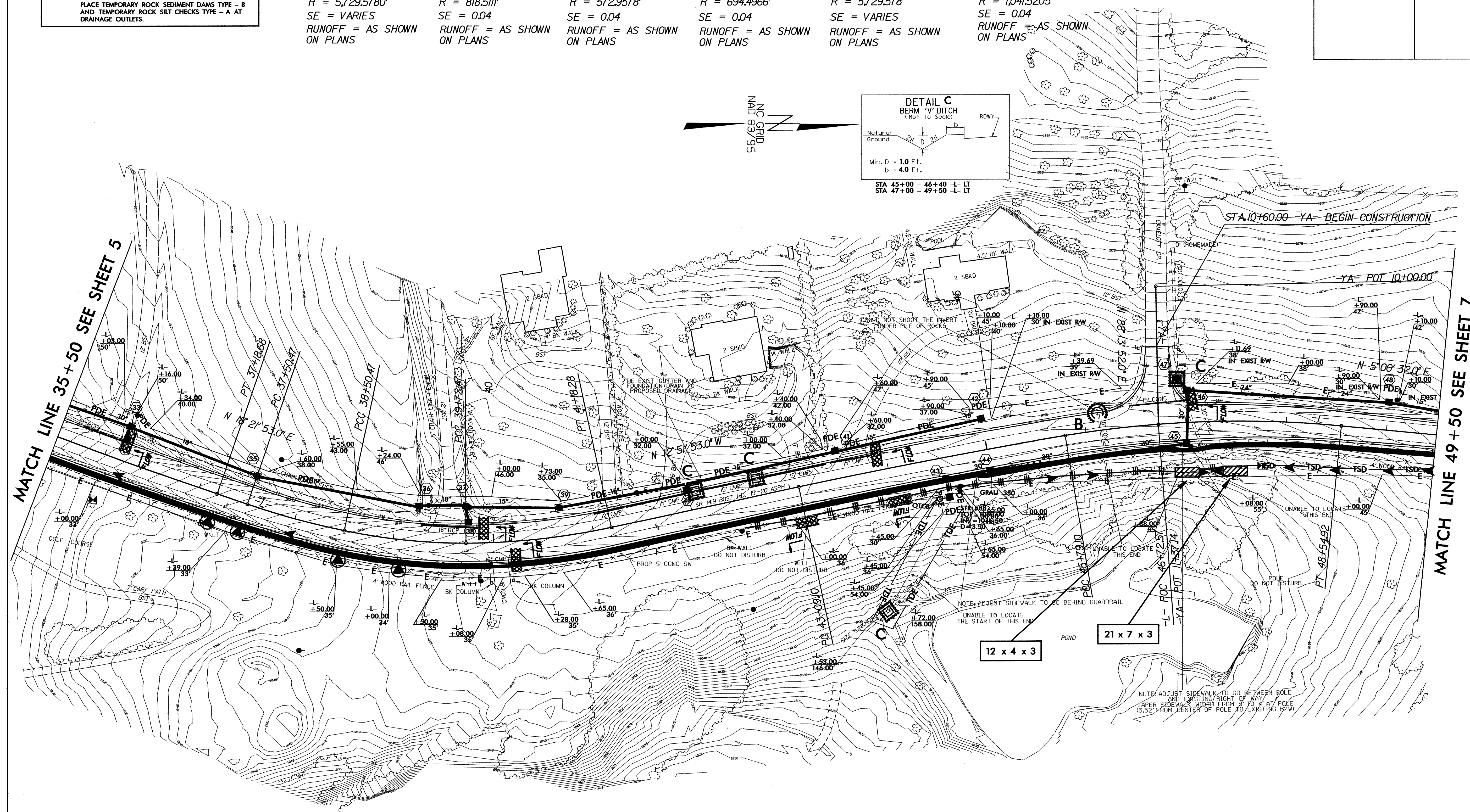
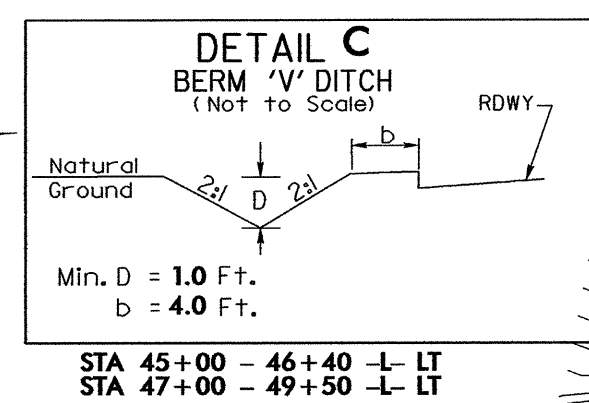
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

| | | | | | |
|---|---|---|--|--|---|
| PI Sta 35+64.21 $\Delta = 3^{\circ} 05' 25.0''$ (LT) $D = 1^{\circ} 00' 00.0''$ $L = 309.03'$ $T = 154.55'$ $R = 5,729.5780'$ $SE = \text{VARIES}$ $RUNOFF = \text{AS SHOWN ON PLANS}$ | PI Sta 38+00.53 $\Delta = 7^{\circ} 00' 00.0''$ (LT) $D = 7^{\circ} 00' 00.0''$ $L = 100.00'$ $T = 50.06'$ $R = 818.5111'$ $SE = 0.04$ $RUNOFF = \text{AS SHOWN ON PLANS}$ | PI Sta 39+11.70 $\Delta = 12^{\circ} 12' 00.0''$ (LT) $D = 10^{\circ} 00' 00.0''$ $L = 122.00'$ $T = 61.23'$ $R = 572.9578'$ $SE = 0.04$ $RUNOFF = \text{AS SHOWN ON PLANS}$ | PI Sta 40+45.64 $\Delta = 12^{\circ} 01' 46.0''$ (LT) $D = 8^{\circ} 14' 59.9''$ $L = 145.81'$ $T = 73.17'$ $R = 694.4966'$ $SE = 0.04$ $RUNOFF = \text{AS SHOWN ON PLANS}$ | PI Sta 44+44.12 $\Delta = 2^{\circ} 42' 00.0''$ (RT) $D = 1^{\circ} 00' 00.0''$ $L = 270.00'$ $T = 135.02'$ $R = 5,729.578'$ $SE = \text{VARIES}$ $RUNOFF = \text{AS SHOWN ON PLANS}$ | PI Sta 47+17.82 $\Delta = 15^{\circ} 10' 25.0''$ (RT) $D = 5^{\circ} 30' 04.2''$ $L = 275.83'$ $T = 138.72'$ $R = 1,041.5205'$ $SE = 0.04$ $RUNOFF = \text{AS SHOWN ON PLANS}$ |
|---|---|---|--|--|---|

-L-

NC GRID
NAD 83/95



MATCH LINE 35+50 SEE SHEET 5

MATCH LINE 49+50 SEE SHEET 7

12 x 4 x 3

21 x 7 x 3

NOTE: ADJUST SIDEWALK TO GO BETWEEN SOLE AND EXISTING RIGHT OF WAY. TAPER SIDEWALK WIDTH FROM 8' TO 4' AT POLE (5.52' FROM CENTER OF POLE TO EXISTING R/W)

NOTE: ADJUST SIDEWALK TO GO BEHIND GUARDRAIL. UNABLE TO LOCATE THE START OF THIS END.

UNABLE TO LOCATE THIS END.

UNABLE TO LOCATE THIS END.

UNABLE TO LOCATE THIS END.

UNABLE TO LOCATE THIS END.

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UNABLE TO LOCATE THIS END.

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| PROJECT REFERENCE NO. | SHEET NO. |
| 37301 | EC-6/CONST.7 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

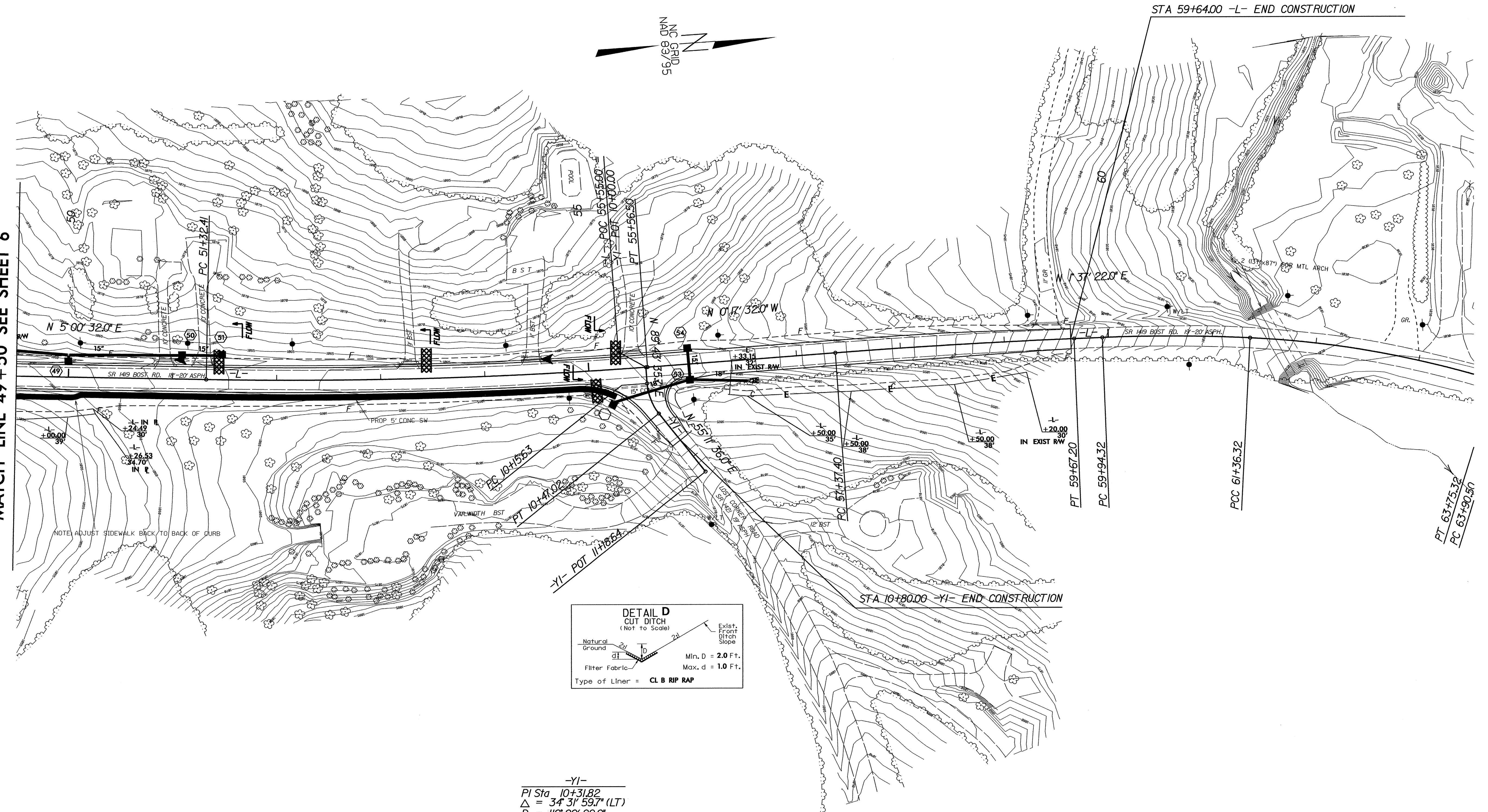
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-L-

| | | | |
|---|--|---|---|
| PI Sta 53+44.61 $\Delta = 5^{\circ}18'04.0''$ (LT) $D = 1^{\circ}15'00.0''$ $L = 424.09'$ $T = 212.20'$ $R = 4,583.6624'$ $SE = 0.021$ RUNOFF = AS SHOWN ON PLANS | PI Sta 58+52.31 $\Delta = 1^{\circ}54'54.0''$ (RT) $D = 0^{\circ}50'00.0''$ $L = 229.80'$ $T = 114.91'$ $R = 6,875.4936'$ $SE = VARIES$ RUNOFF = AS SHOWN ON PLANS | PI Sta 60+65.37 $\Delta = 5^{\circ}05'06.0''$ (RT) $D = 3^{\circ}34'51.6''$ $L = 142.00'$ $T = 71.05'$ $R = 1,600.0000'$ | PI Sta 62+56.45 $\Delta = 14^{\circ}20'24.0''$ (RT) $D = 6^{\circ}00'00.0''$ $L = 239.00'$ $T = 120.13'$ $R = 954.9297'$ |
|---|--|---|---|

MATCH LINE 49 + 50 SEE SHEET 6



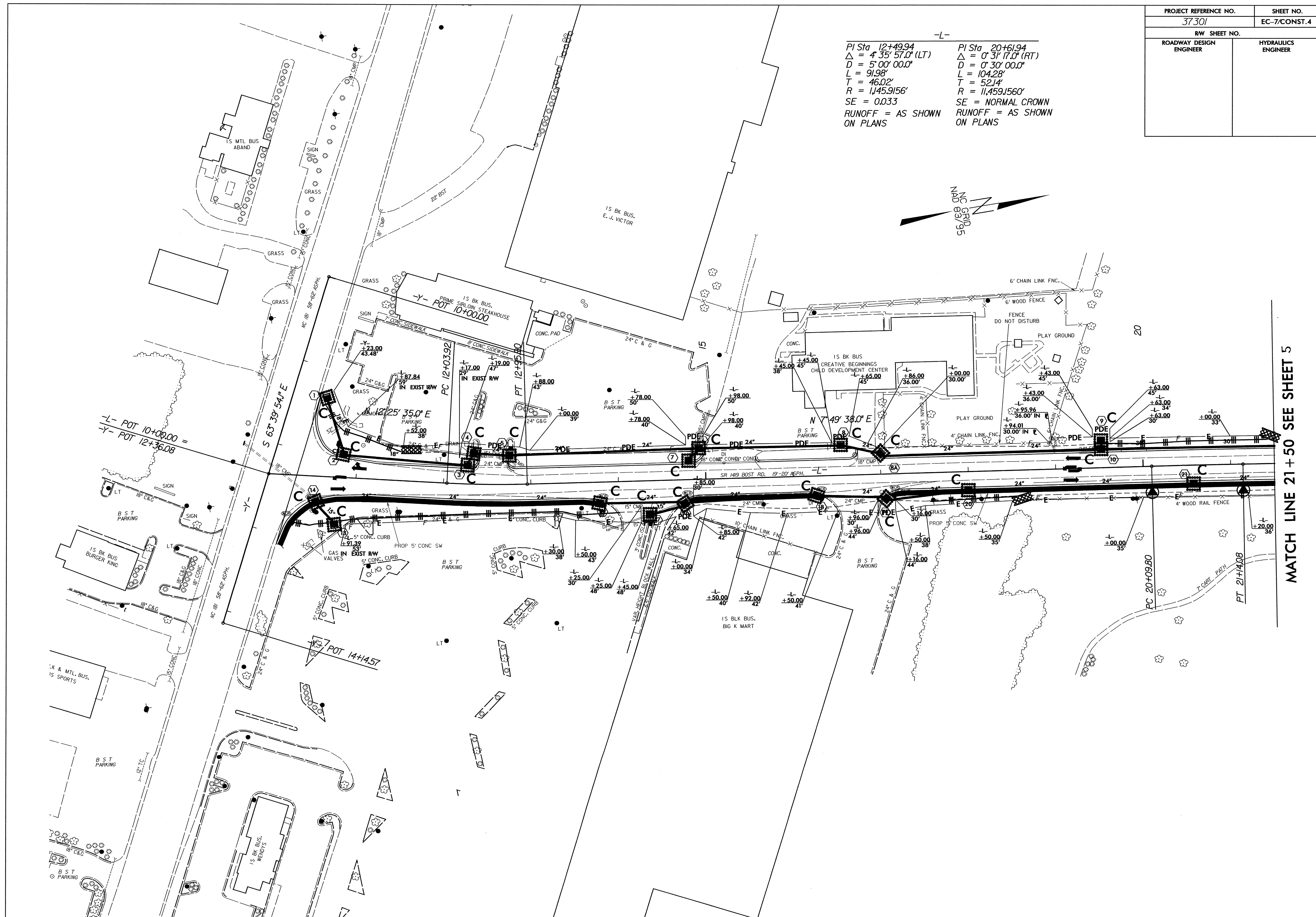
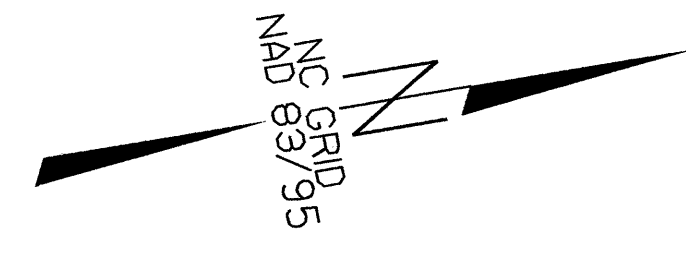
-YI-

PI Sta 10+31.82
 $\Delta = 34^{\circ}31'59.7''$ (LT)
 $D = 110^{\circ}00'00.0''$
 $L = 31.39'$
 $T = 16.19'$
 $R = 52.0871'$

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 37301 | EC-7/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

-L-

| | |
|------------------------------|------------------------------|
| PI Sta 12+49.94 | PI Sta 20+61.94 |
| $\Delta = 4' 35" 57.0" (LT)$ | $\Delta = 0' 31" 17.0" (RT)$ |
| $D = 5' 00" 00.0"$ | $D = 0' 30" 00.0"$ |
| $L = 91.98'$ | $L = 104.28'$ |
| $T = 46.02'$ | $T = 52.14'$ |
| $R = 1,145.9156'$ | $R = 11,459.1560'$ |
| $SE = 0.033$ | $SE = NORMAL CROWN$ |
| $RUNOFF = AS SHOWN ON PLANS$ | $RUNOFF = AS SHOWN ON PLANS$ |

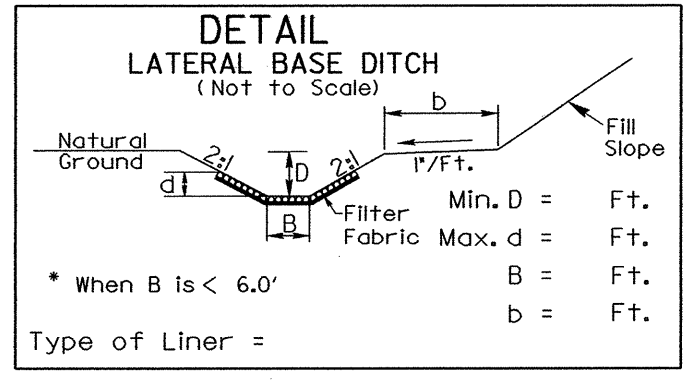
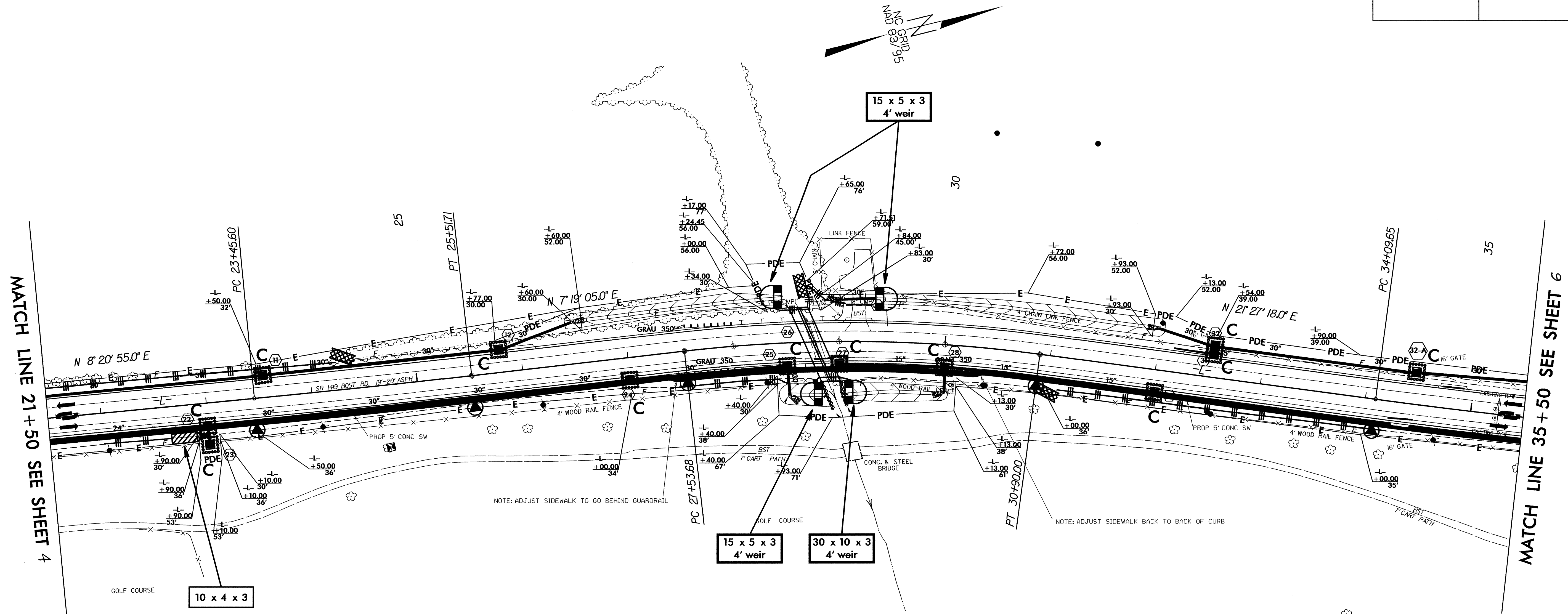


MATCH LINE 21+50 SEE SHEET 5

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 37301 | EC-8/CONST.5 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

-L-

| | |
|--------------------------------------|--------------------------------------|
| PI Sta 24+48.66 | PI Sta 29+22.70 |
| $\Delta = 1^{\circ} 01' 50.0''$ (LT) | $\Delta = 1^{\circ} 08' 13.0''$ (RT) |
| D = 0' 30' 00.0" | D = 4' 12' 12.0" |
| L = 206.11' | L = 336.33' |
| T = 103.06' | T = 169.02' |
| R = 11,459.1560' | R = 1,363.1034' |
| SE = NORMAL CROWN | SE = 0.037 |
| RUNOFF = AS SHOWN ON PLANS | RUNOFF = AS SHOWN ON PLANS |



NOTE: ADJUST SIDEWALK TO GO BEHIND GUARDRAIL

NOTE: ADJUST SIDEWALK BACK TO BACK OF CURB

