

TIP PROJECT: R-2555A

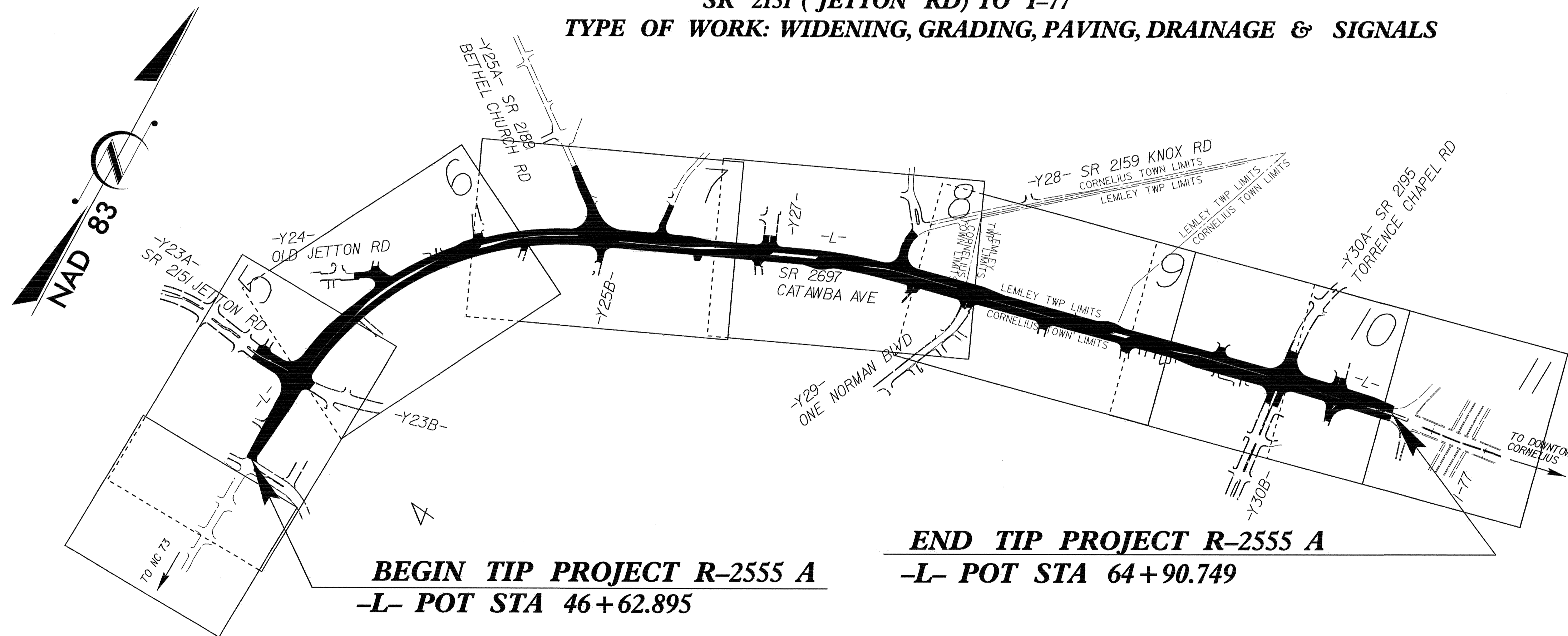
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MECKLENBURG COUNTY

LOCATION: SR 2697 (WEST CATAWBA AVE) FROM
SR 2151 (JETTON RD) TO I-77

TYPE OF WORK: WIDENING, GRADING, PAVING, DRAINAGE & SIGNALS



METRIC

ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE SHOWN

| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | R-2555A | EC-1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| | | | |
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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 | |
| 1633.02 | 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 | |
| | Skimmer Basin | |
| | Tiered Skimmer Basin | |

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

BEGIN TIP PROJECT R-2555 A
-L- POT STA 46+62.895

END TIP PROJECT R-2555 A
-L- POT STA 64+90.749

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2002 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway metric standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 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 | 1633.01 Temporary Rock Silt Check Type A |
| 1606.01 Special Sediment Control Fence | 1633.02 Temporary Rock Silt Check Type B |
| 1630.05 Temporary Diversion | 1634.02 Temporary Rock Sediment Dam Type B |
| 1632.03 Rock Inlet Sediment Trap Type C | 1635.01 Rock Pipe Inlet Sediment Trap Type A |

06-JUL-2007 15:18
c:\pcc\m\2555a\design\2555a_rdy.ec.tsh_051027.dgn

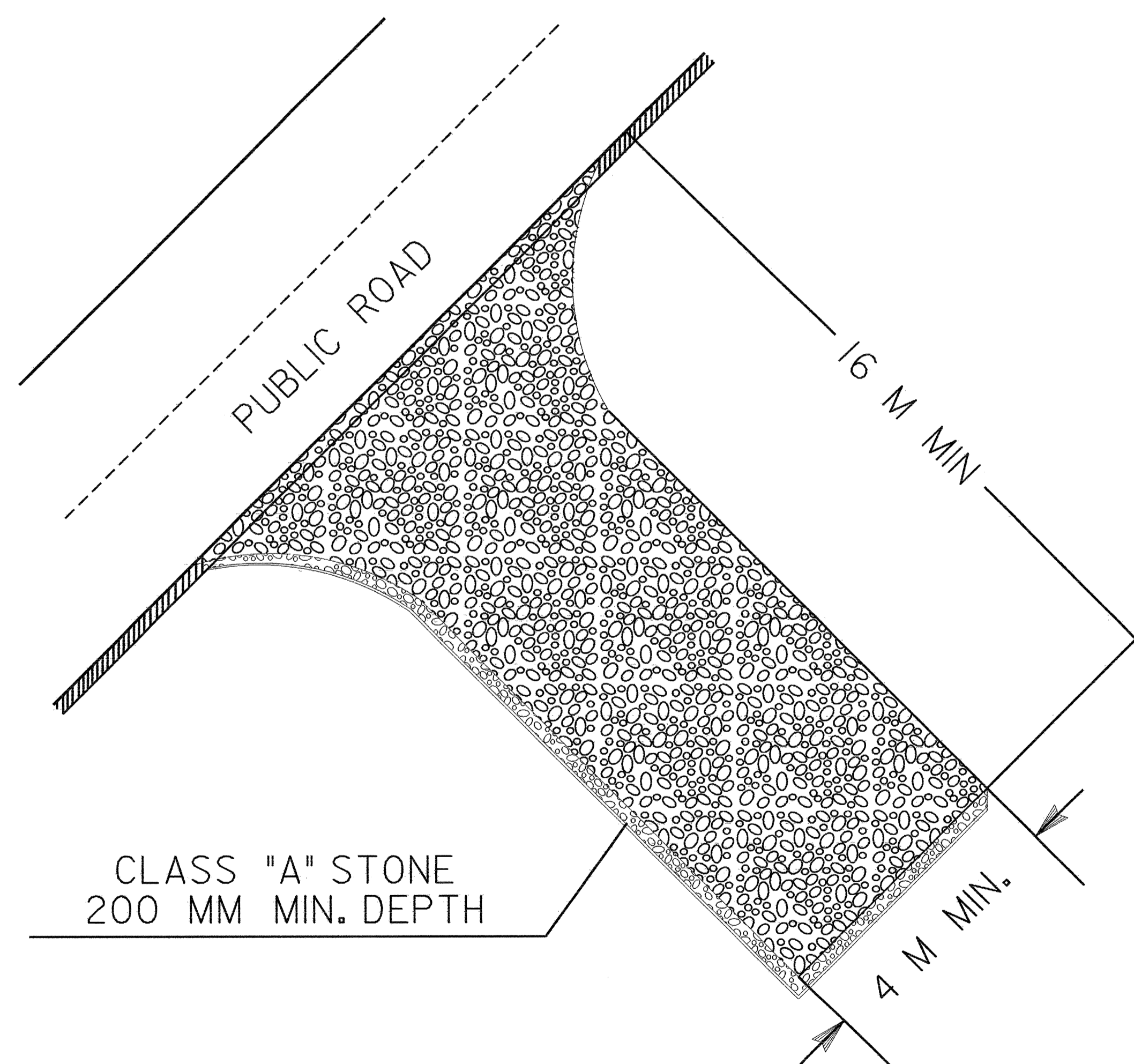


| | |
|----------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2555A | SHEET NO. EC-2 |
| R / W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

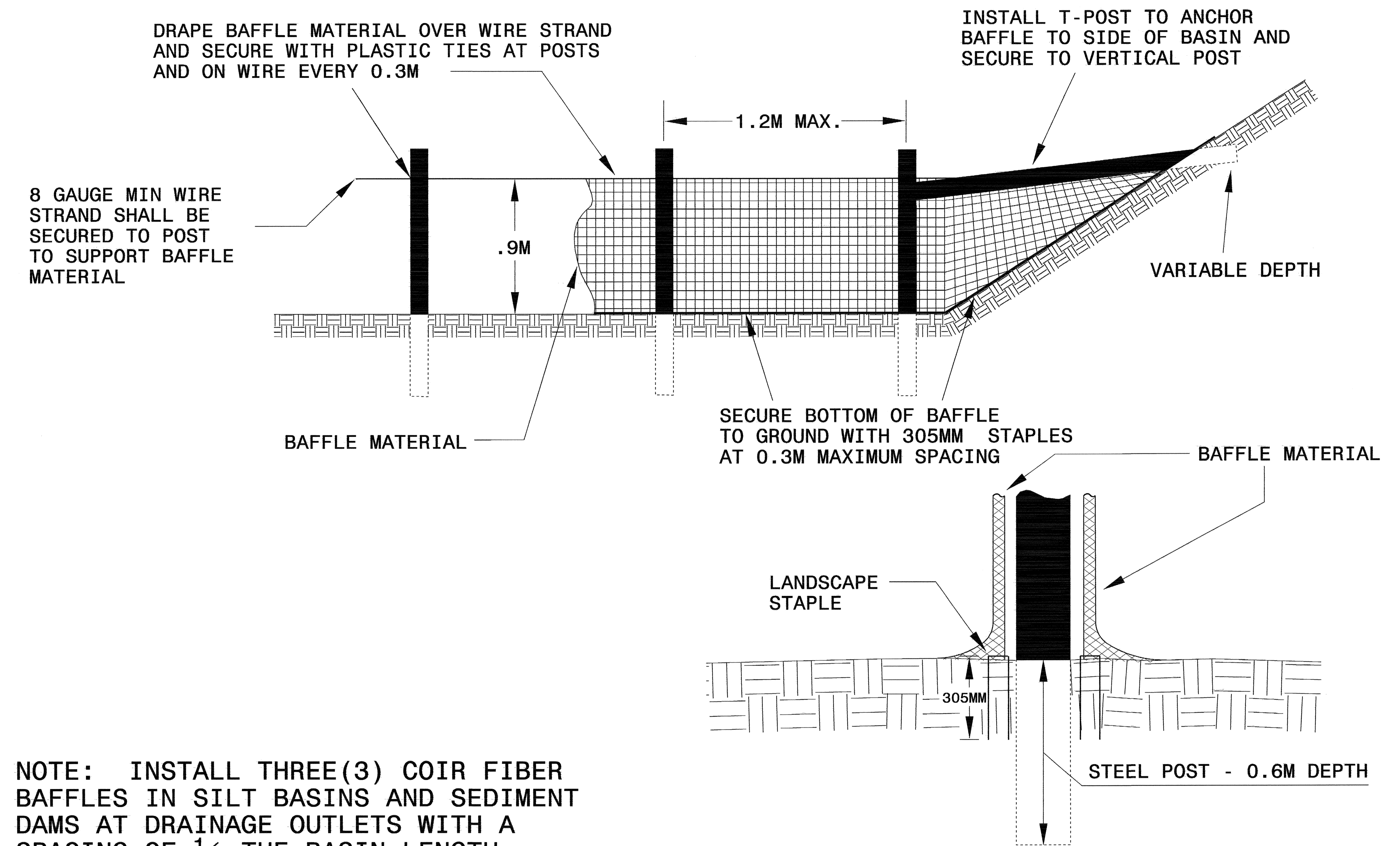


NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE



| | |
|----------------------------------|------------------------|
| PROJECT REFERENCE NO. R-2555A | SHEET NO. EC-2A |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |


COIR FIBER BAFFLE DETAIL

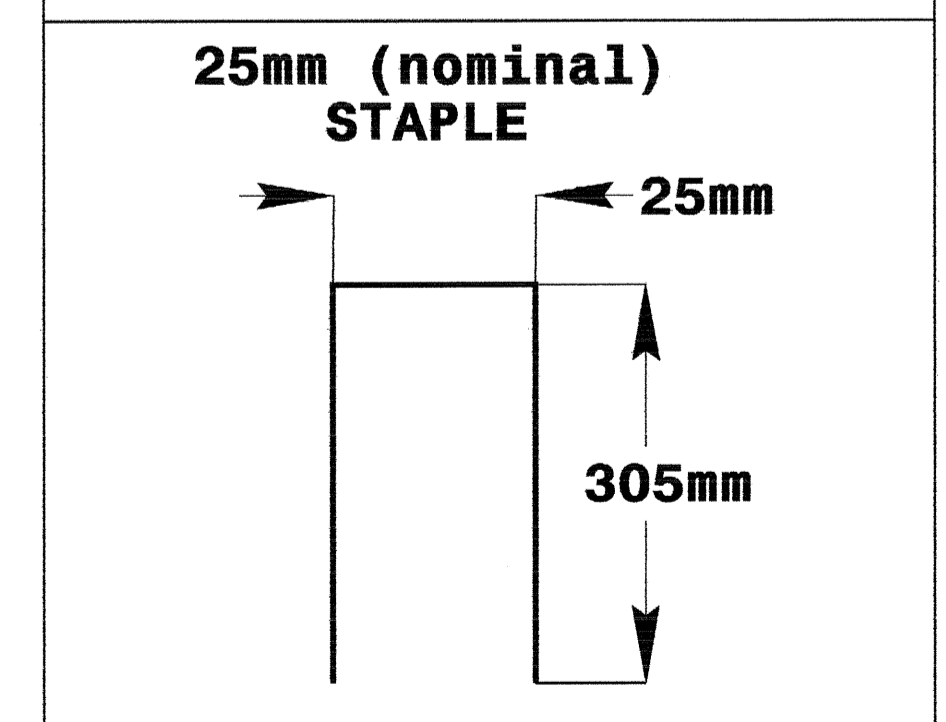
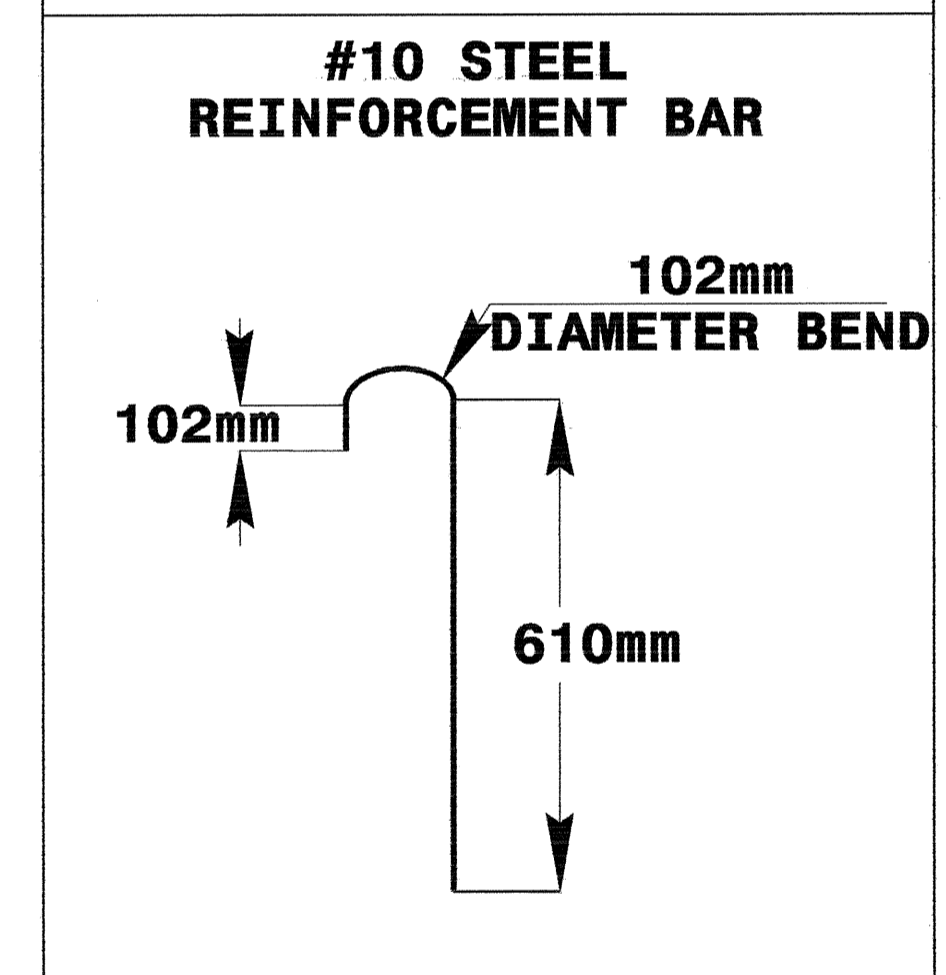
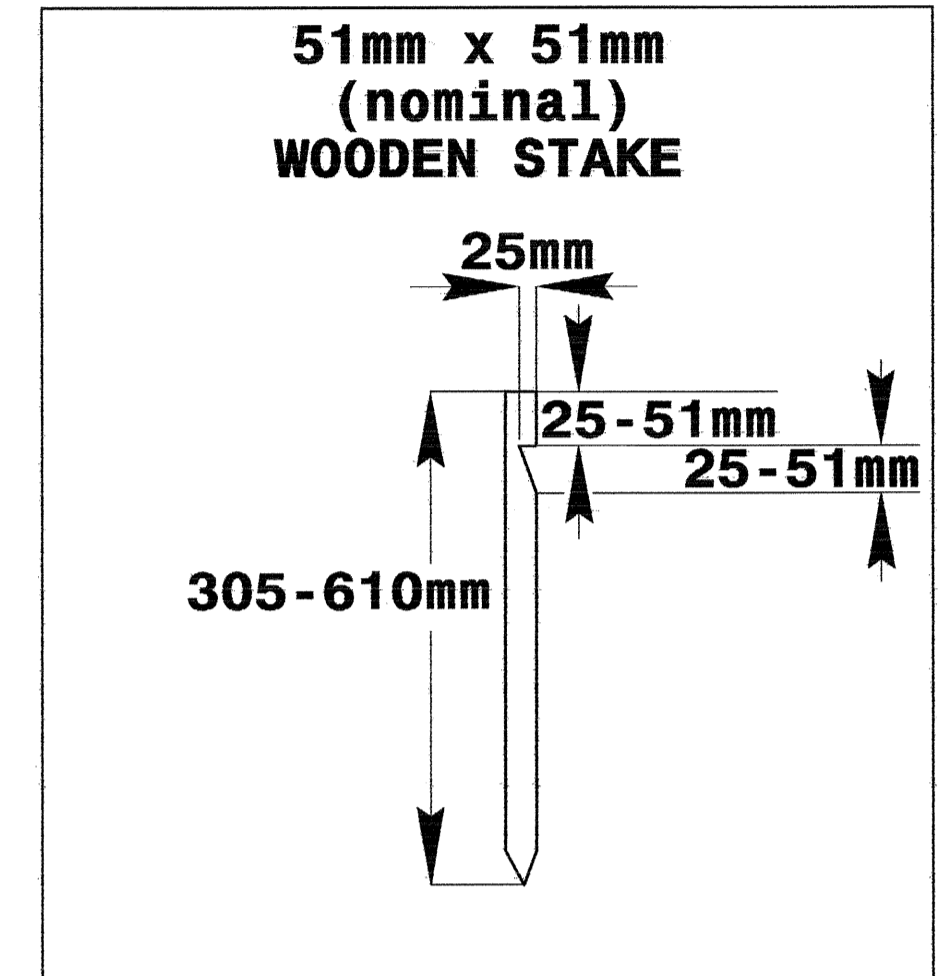
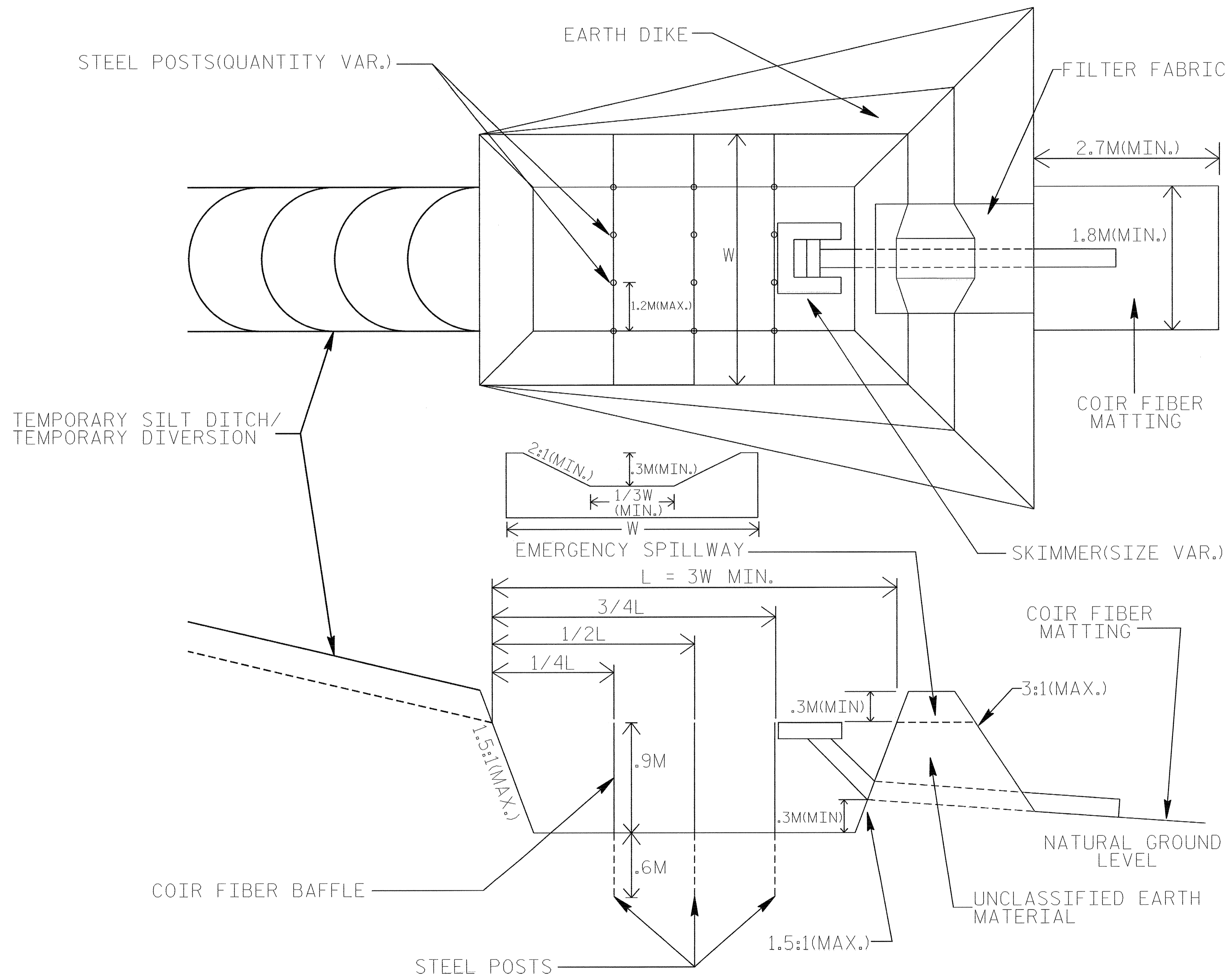


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 6 M IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 305MM LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

| | | |
|------------------------------------------------------------------------------------|-----------------------|-----------|
|  | PROJECT REFERENCE NO. | SHEET NO. |
| | R-2555A | EC-2B |
| | R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER | |

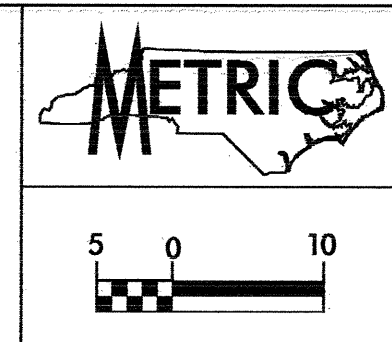


COIR FIBER MAT ANCHOR OPTIONS

8/17/99

PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5.



| | |
|-----------------------------------|----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-4/CONST. 5 |
| R/W SHEET NO. | HYDRAULICS ENGINEER |
| ROADWAY DESIGN ENGINEER | |

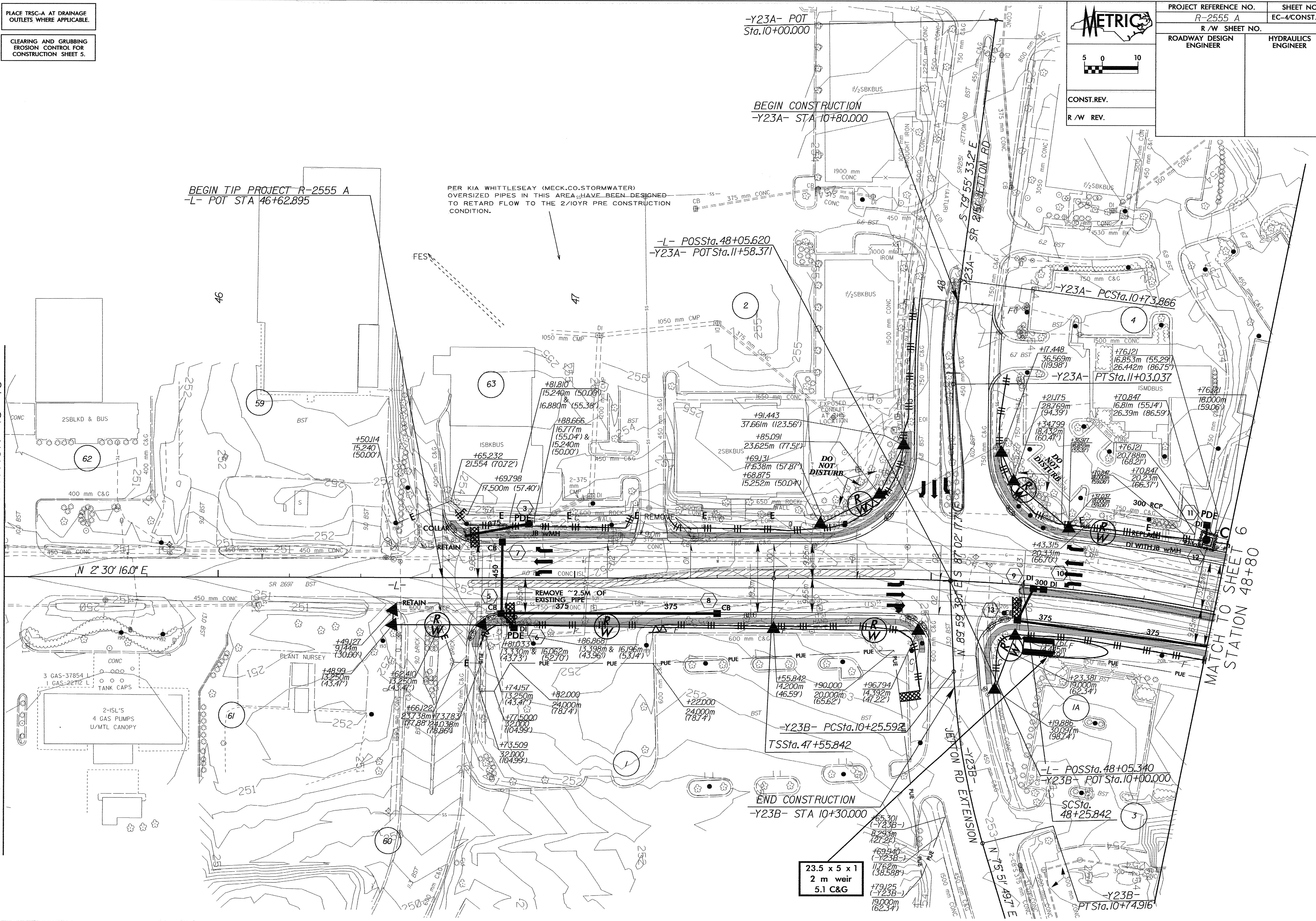
CONST.REV.

R/W REV.

STATION 45+40

MATCH TO SHEET 4

MATCH TO SHEET 6
STATION 48+80



BEGIN TIP PROJECT R-2555 A
-L- POT STA 46+62.895

PER KIA WHITTLESEAY (MECK.CO.STORMWATER)
OVERSIZED PIPES IN THIS AREA, HAVE BEEN DESIGNED
TO RETARD FLOW TO THE 2/10YR PRE CONSTRUCTION
CONDITION.

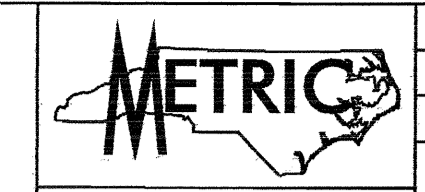
-L- POS Sta.48+05.620
-Y23A- POT Sta.11+58.371

23.5 x 5 x 1
2 m weir
5.1 C&G

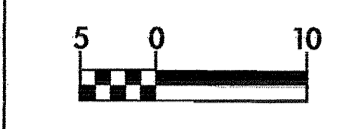
8/17/23

PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.

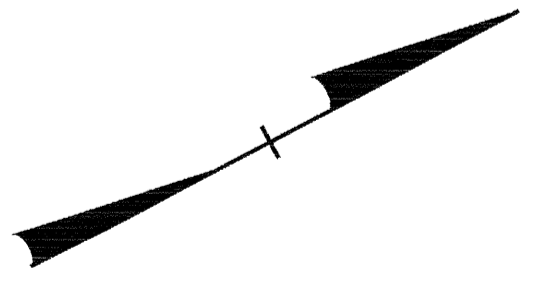
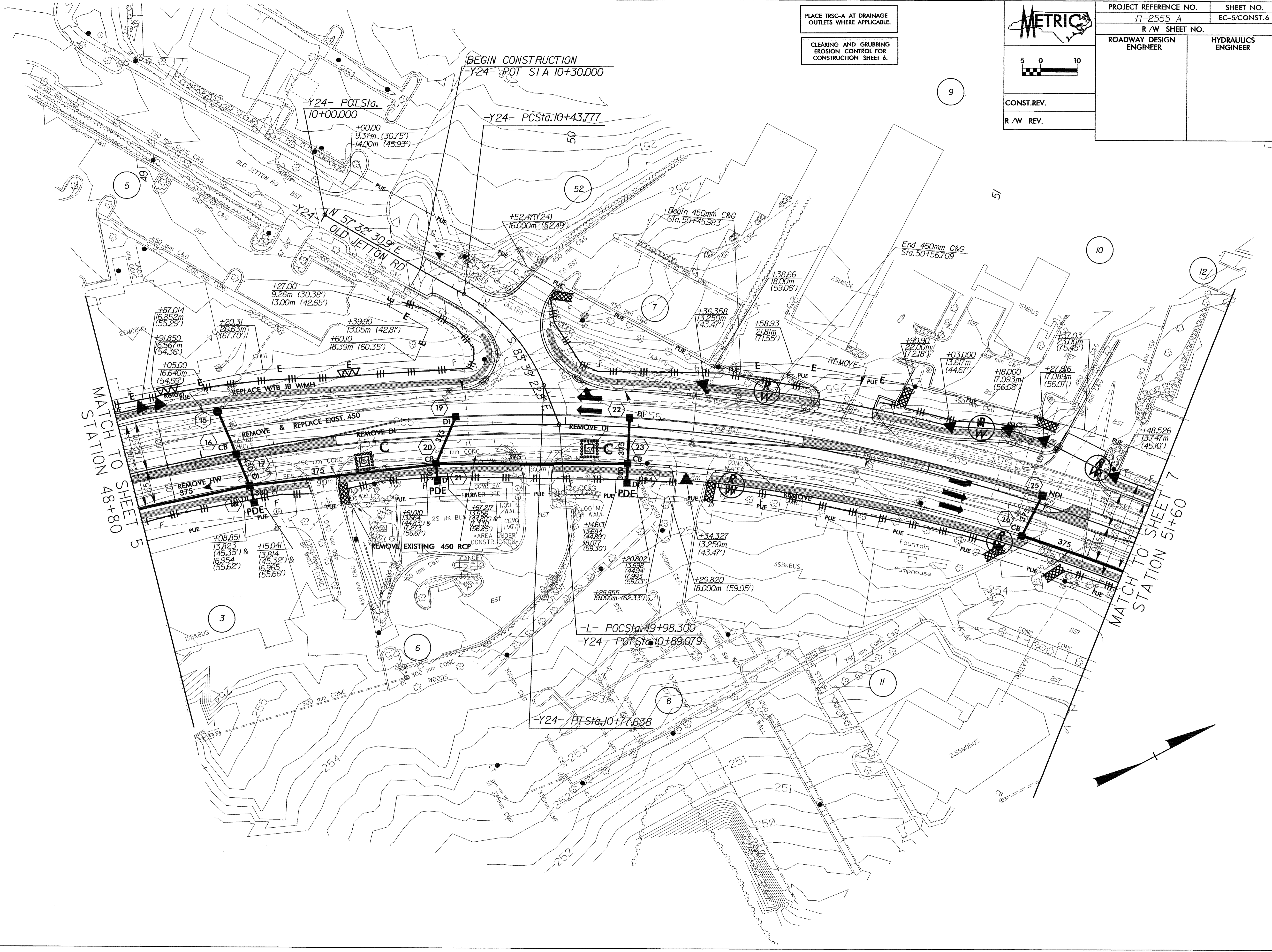
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6.



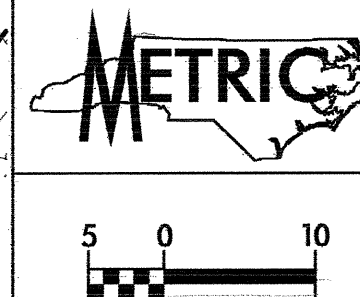
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|-----------------------------------|---------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-5/CONST.6 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST. REV. | |
| R/W REV. | |



9



| | | | |
|-------------------------|----------|---------------------|--------------|
| PROJECT REFERENCE NO. | R-2555 A | SHEET NO. | EC-6/CONST.7 |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |



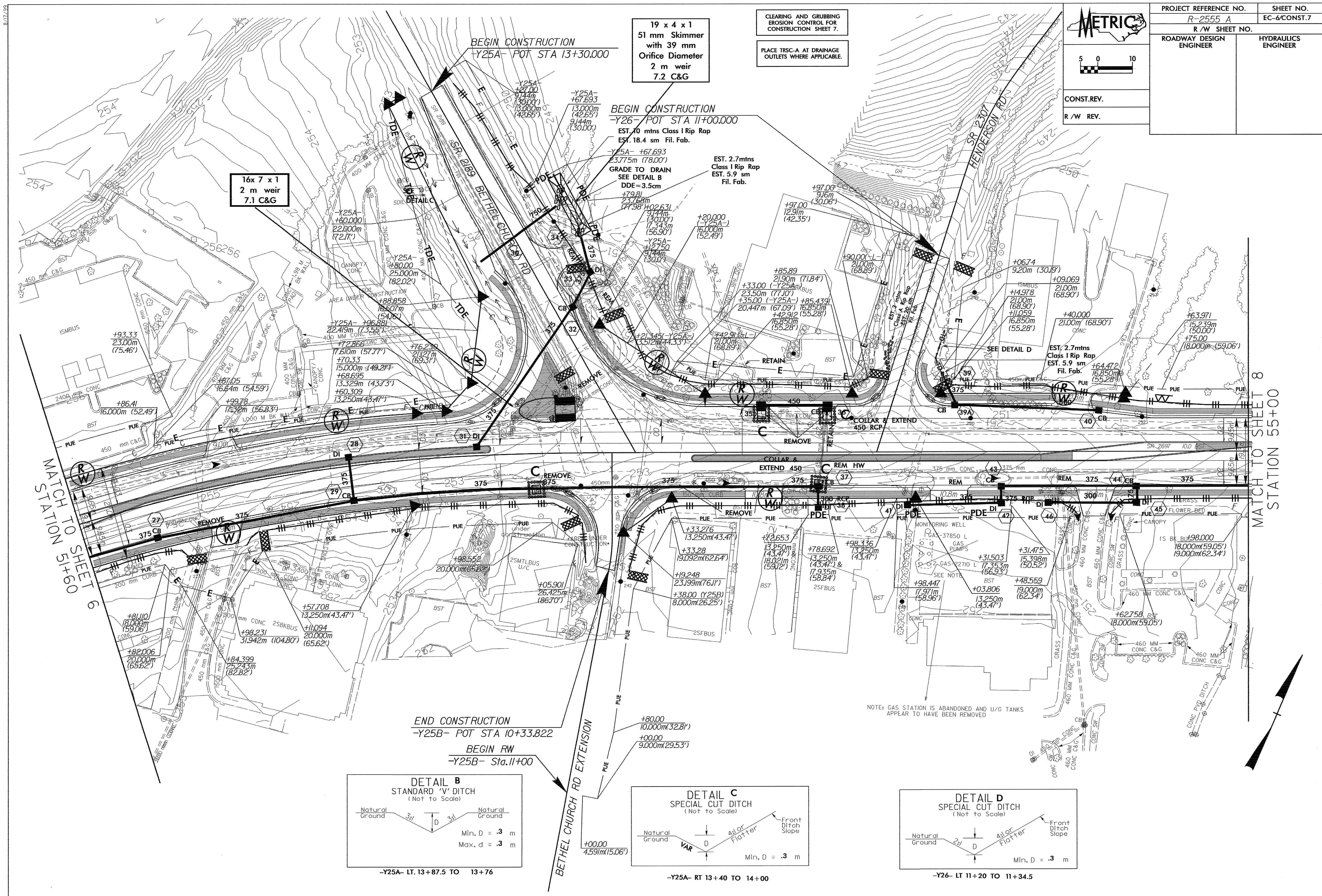
CONST. REV.
R/W REV.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7.

PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.

19 x 4 x 1
51 mm Skimmer
with 39 mm
Orifice Diameter
2 m weir
7.2 C&G

16 x 7 x 1
2 m weir
7.1 C&G

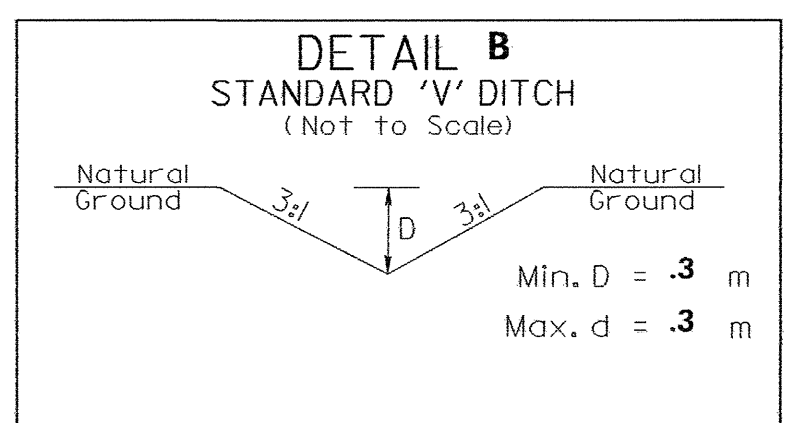


MATCH TO SHEET 6
STATION 51+60

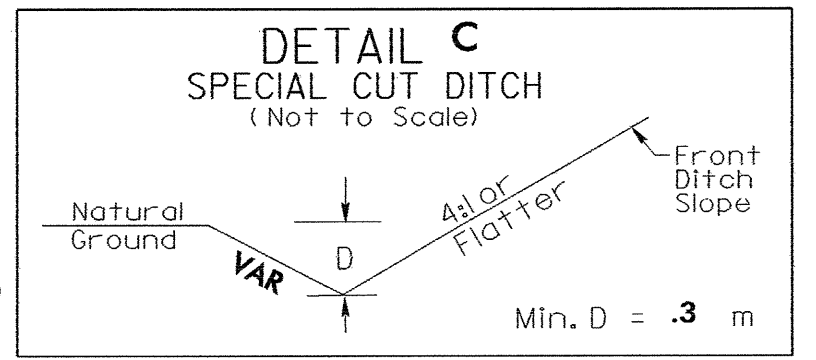
MATCH TO SHEET 8
STATION 55+00

END CONSTRUCTION
-Y25B- POT STA 10+33.822

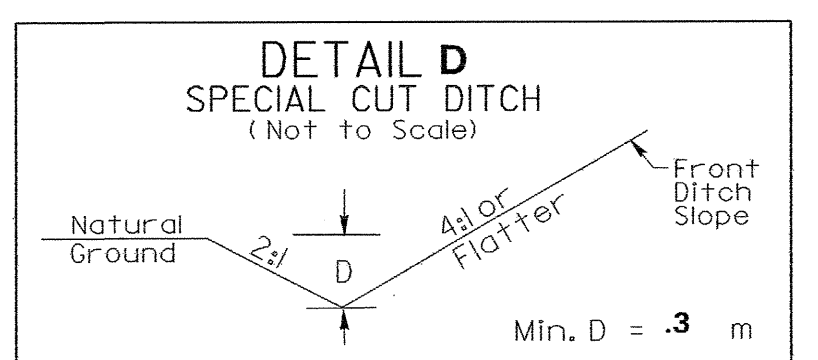
BEGIN RW
-Y25B- Sta. 11+00



-Y25A- LT. 13+87.5 TO 13+74

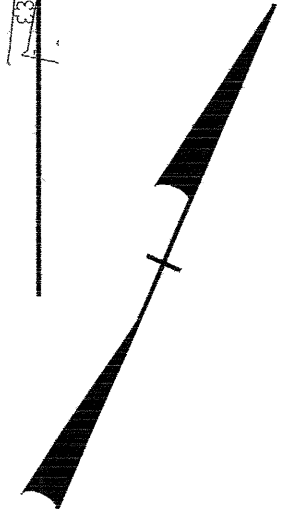


-Y25A- RT 13+40 TO 14+00



-Y26- LT 11+20 TO 11+34.5

NOTE: GAS STATION IS ABANDONED AND U/G TANKS
APPEAR TO HAVE BEEN REMOVED

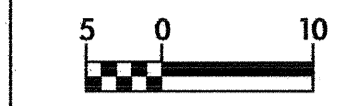


8/17/24

PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8.

NOTE
DO NOT DISTURB
WALL / SIGN ON
PARCEL 54



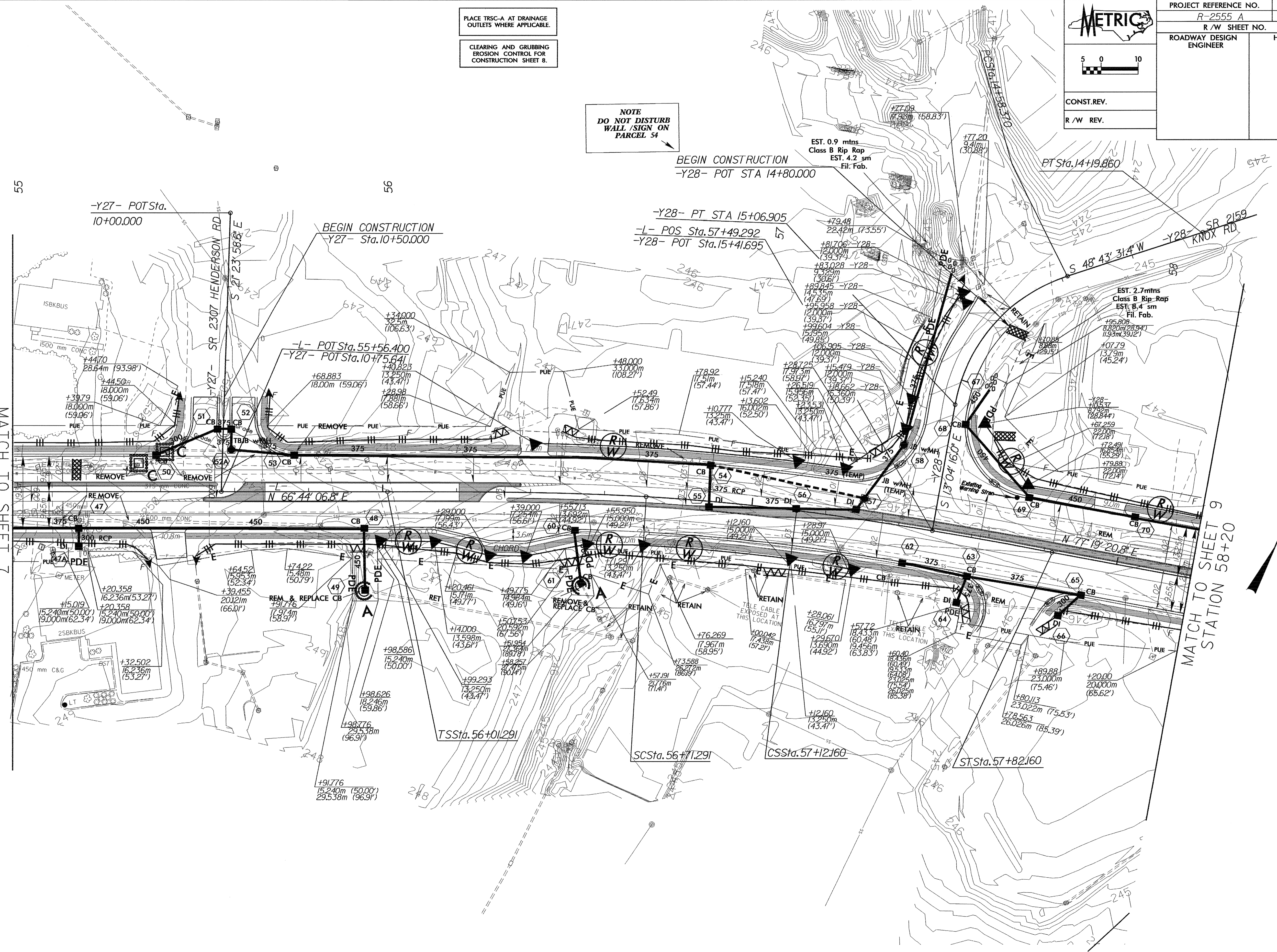
CONST. REV.

R / W REV.

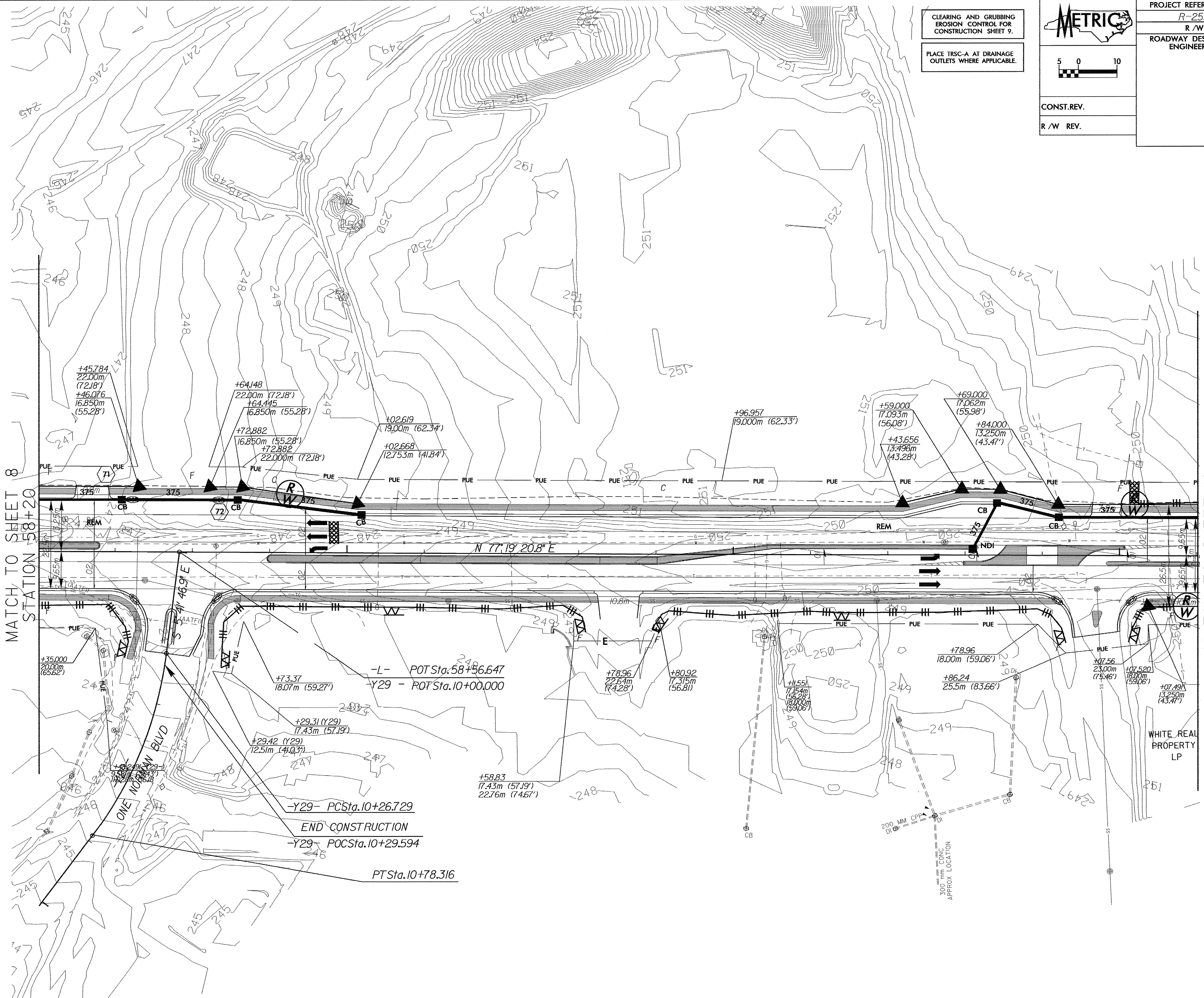
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| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-7/CONST.8 |
| R / W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

MATCH TO SHEET 7
STATION 55+00

MATCH TO SHEET 9
STATION 58+20

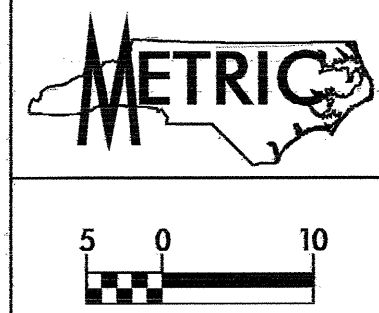


8.07.09



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9.

PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.



CONST.REV.

R/W REV.

| | |
|-----------------------------------|---------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-B/CONST.9 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

MATCH TO SHEET 8
STATION 58+20

MATCH TO SHEET 10
STATION 61+20

+45.784
22.00m (72.18')
+46.076
16.850m (55.28')

+64.148
22.00m (72.18')
+64.445
16.850m (55.28')

+02.619
19.00m (62.34')
+02.668
12.753m (41.84')

+96.957
19.000m (62.33')

+59.000
17.093m (56.08')
+43.656
13.498m (43.28')

+69.000
17.062m (55.98')
+84.000
13.250m (43.47')

+35.000
20.00m (65.62')

+73.37
18.07m (59.27')

+78.96
22.61m (74.20')

+80.92
17.315m (56.81')

+78.96
18.00m (59.06')

+86.24
25.5m (83.66')

+07.56
23.00m (75.46')

+07.520
18.00m (59.06')

+07.491
13.250m (43.47')

+29.31 (Y29)
17.43m (57.19')

+29.42 (Y29)
12.51m (41.03')

+58.83
17.43m (57.19')
22.76m (74.67')

-Y29- PCSta.10+26.729

END CONSTRUCTION

-Y29- POCSta.10+29.594

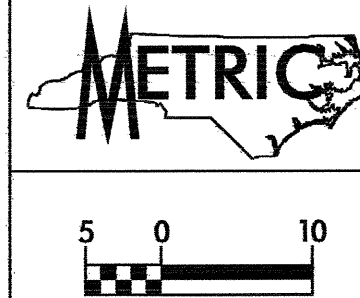
PTSta.10+78.316

-L- POTSta.58+56.647
-Y29- POTSta.10+00.000

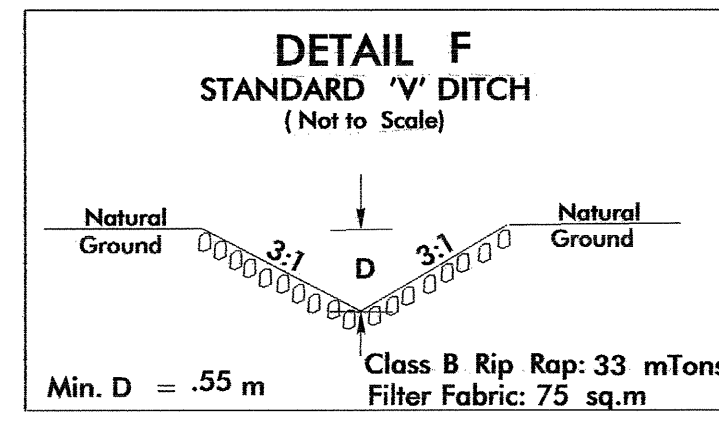
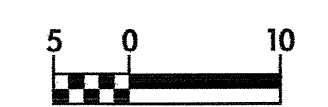
WHITE REAL
PROPERTY
LP

ONE NORTHWAY BLVD

200 MM CPV
DI
500 mm CPV
DI
APPROX LOCATION



| | |
|-----------------------------------|----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-9/CONST.10 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST. REV. | |
| R/W REV. | |

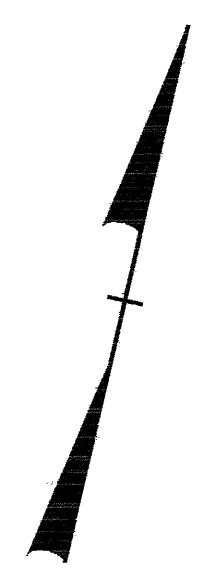
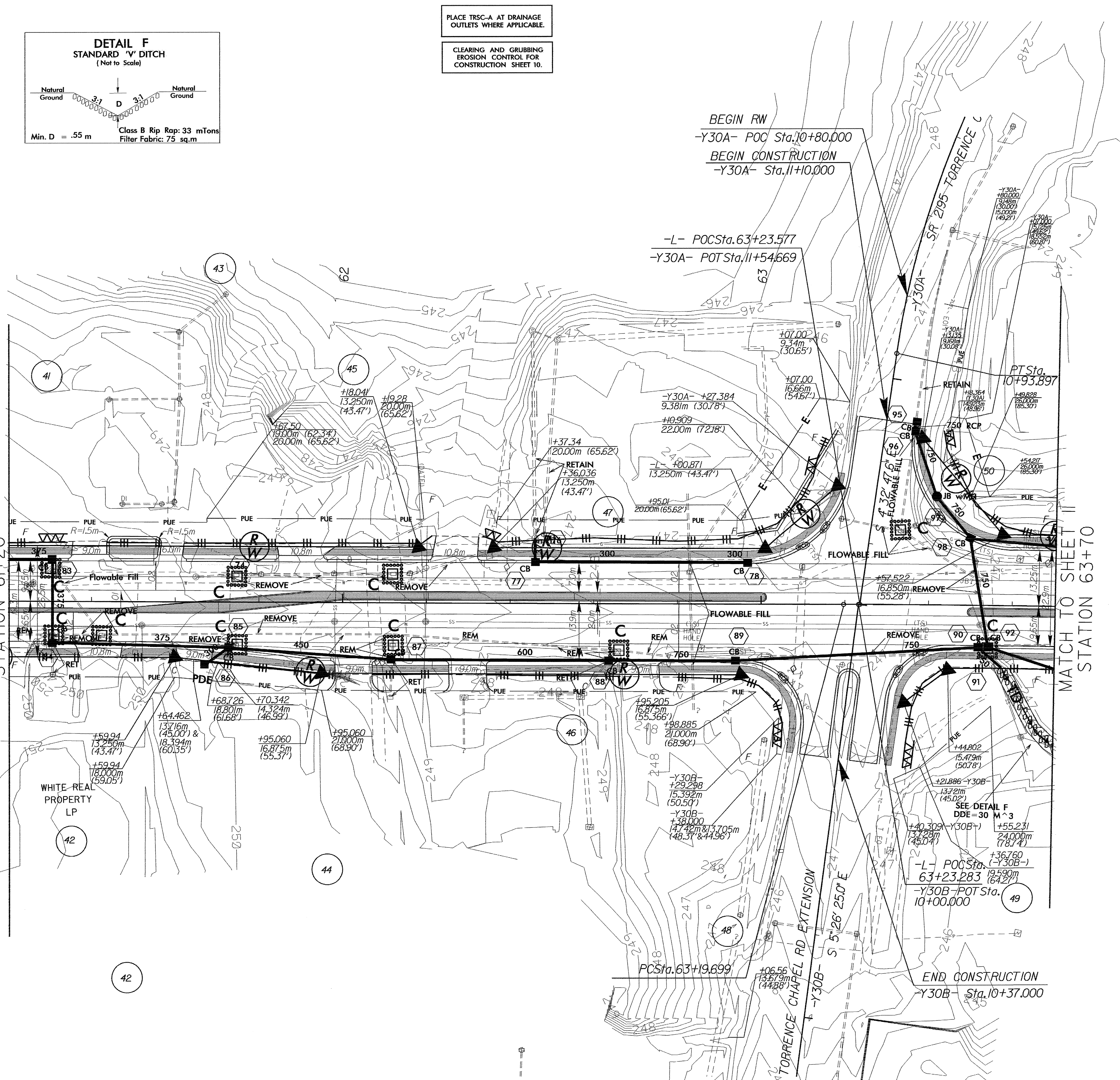


PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10.

MATCH TO SHEET 9
STATION 61+20

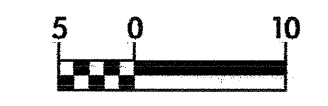
MATCH TO SHEET 11
STATION 63+70



8.07.09

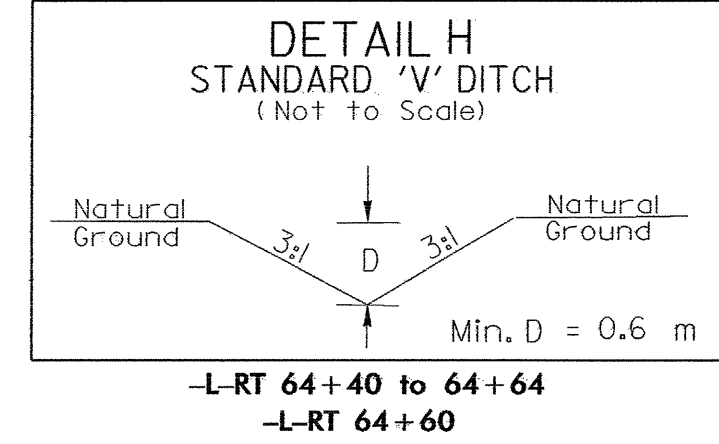
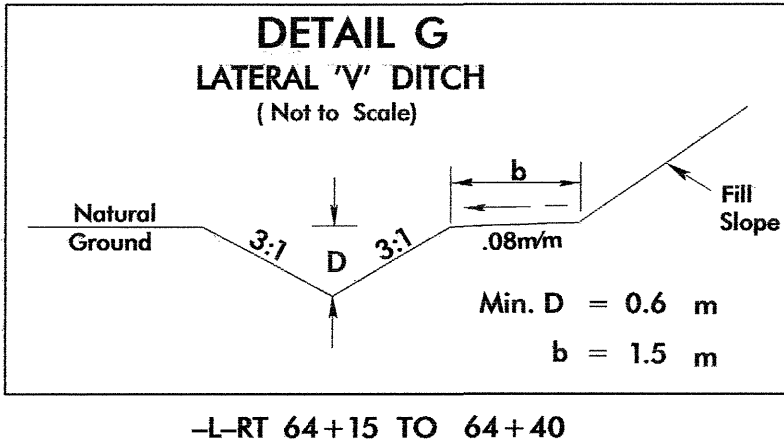
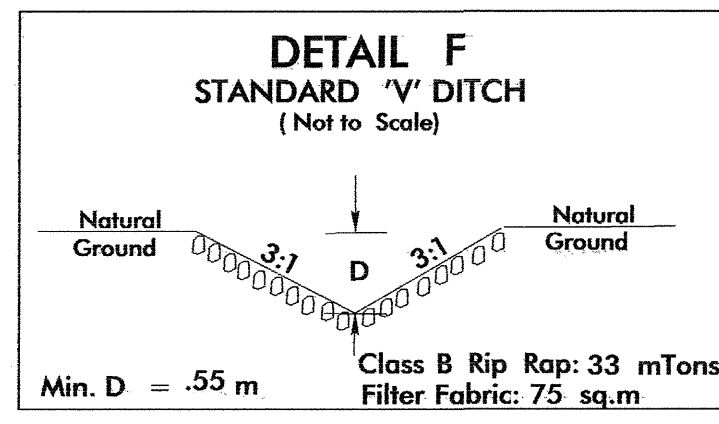


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|-----------------------------------|-----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-10/CONST.11 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST. REV. | |
| R/W REV. | |

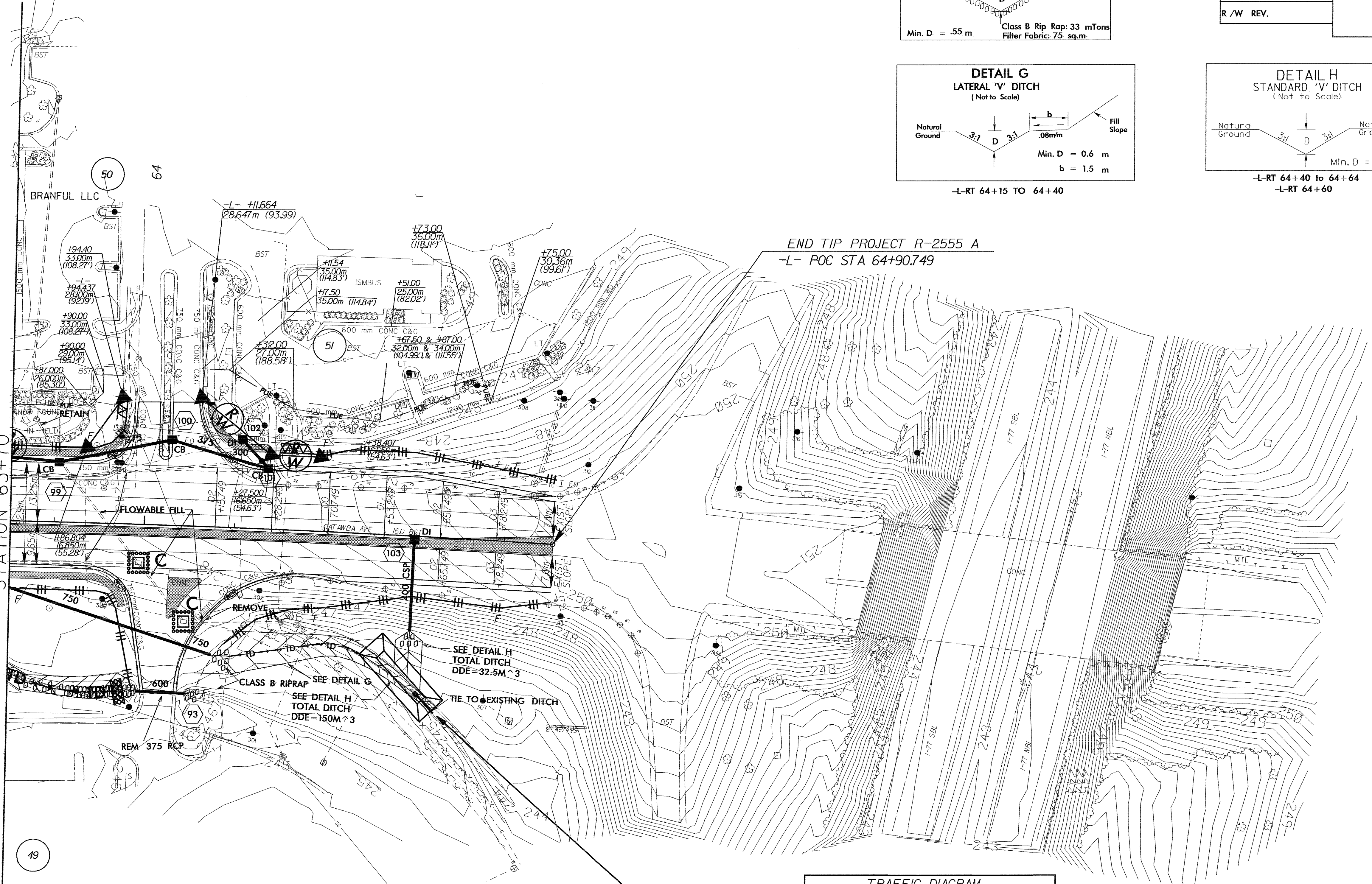


PLACE TRSC-A AT DRAINAGE
OUTLETS WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11.

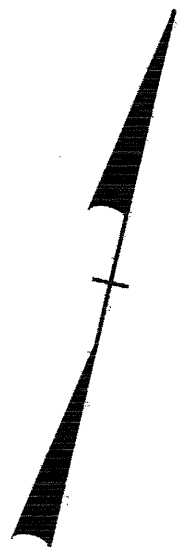
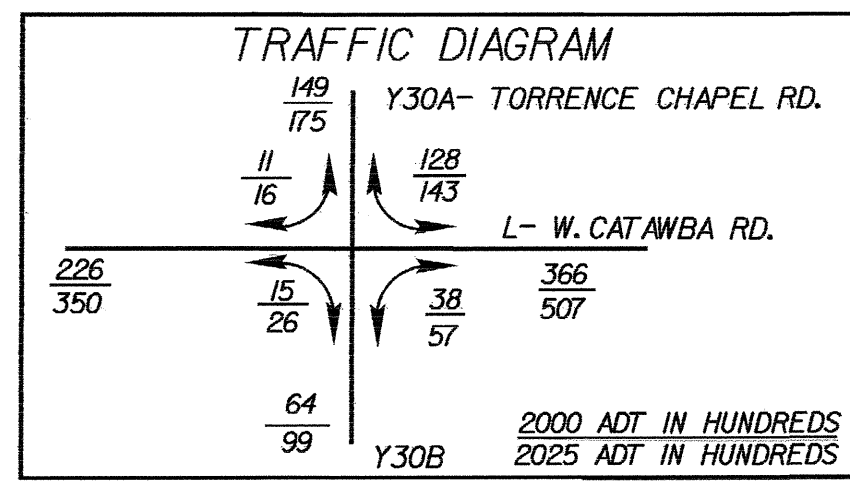


MATCH TO SHEET 10
STATION 63+70



END TIP PROJECT R-2555 A
-L- POC STA 64+90.749

20 x 7 x 1
64 mm Skimmer
with 60 mm
Orifice Diameter
2 m weir
11.1 C&G



8/17/98



CONST.REV.

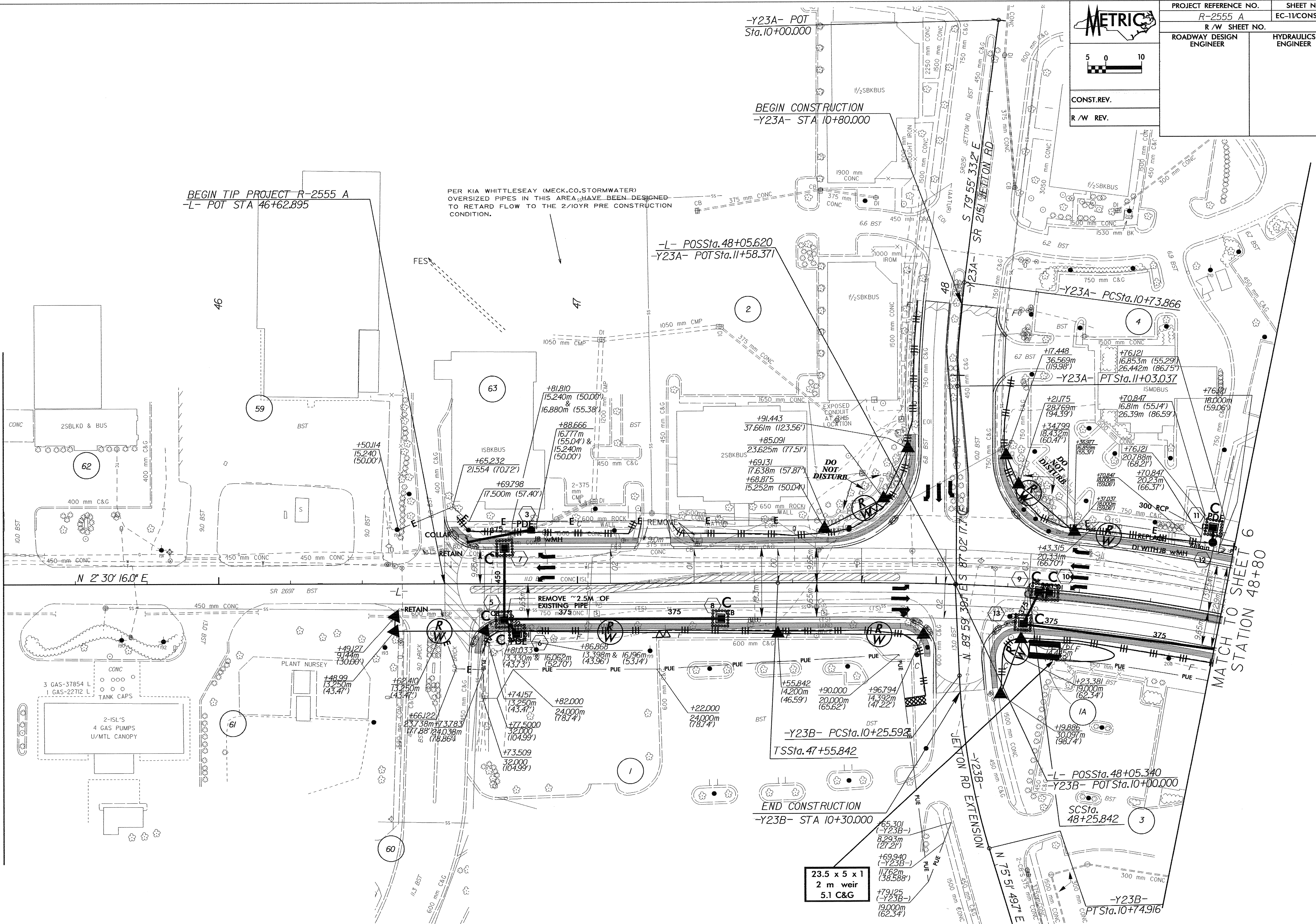
R/W REV.

| | |
|-----------------------------------|----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-11/CONST.5 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

STATION 45+40

MATCH TO SHEET 4

MATCH TO SHEET 6
STATION 48+80



23.5 x 5 x 1
2 m weir
5.1 C&G

BEGIN TIP PROJECT R-2555 A
-L- POT STA 46+62.895

PER KIA WHITTLESEY (MECK.CO.STORMWATER)
OVERSIZED PIPES IN THIS AREA HAVE BEEN DESIGNED
TO RETARD FLOW TO THE 2/10YR PRE CONSTRUCTION
CONDITION.

-L- POS Sta. 48+05.620
-Y23A- POT Sta. 11+58.371

-Y23A- PC Sta. 10+73.866

-Y23A- PT Sta. 11+03.037

-Y23B- PC Sta. 10+25.592
TSS Sta. 47+55.842

END CONSTRUCTION
-Y23B- STA 10+30.000

-L- POS Sta. 48+05.340
-Y23B- POT Sta. 10+00.000

SC Sta. 48+25.842

-Y23B- PT Sta. 10+74.916

N 2° 30' 16.0" E

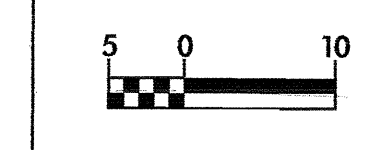
JETTON RD EXTENSION

SR 2151 JETTON RD

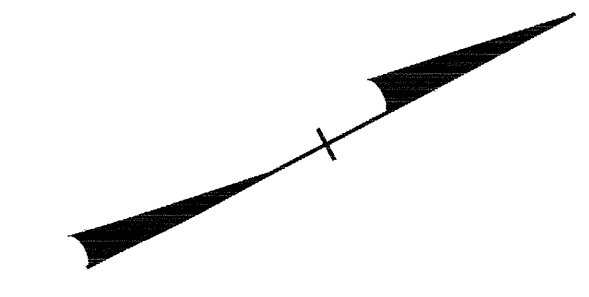
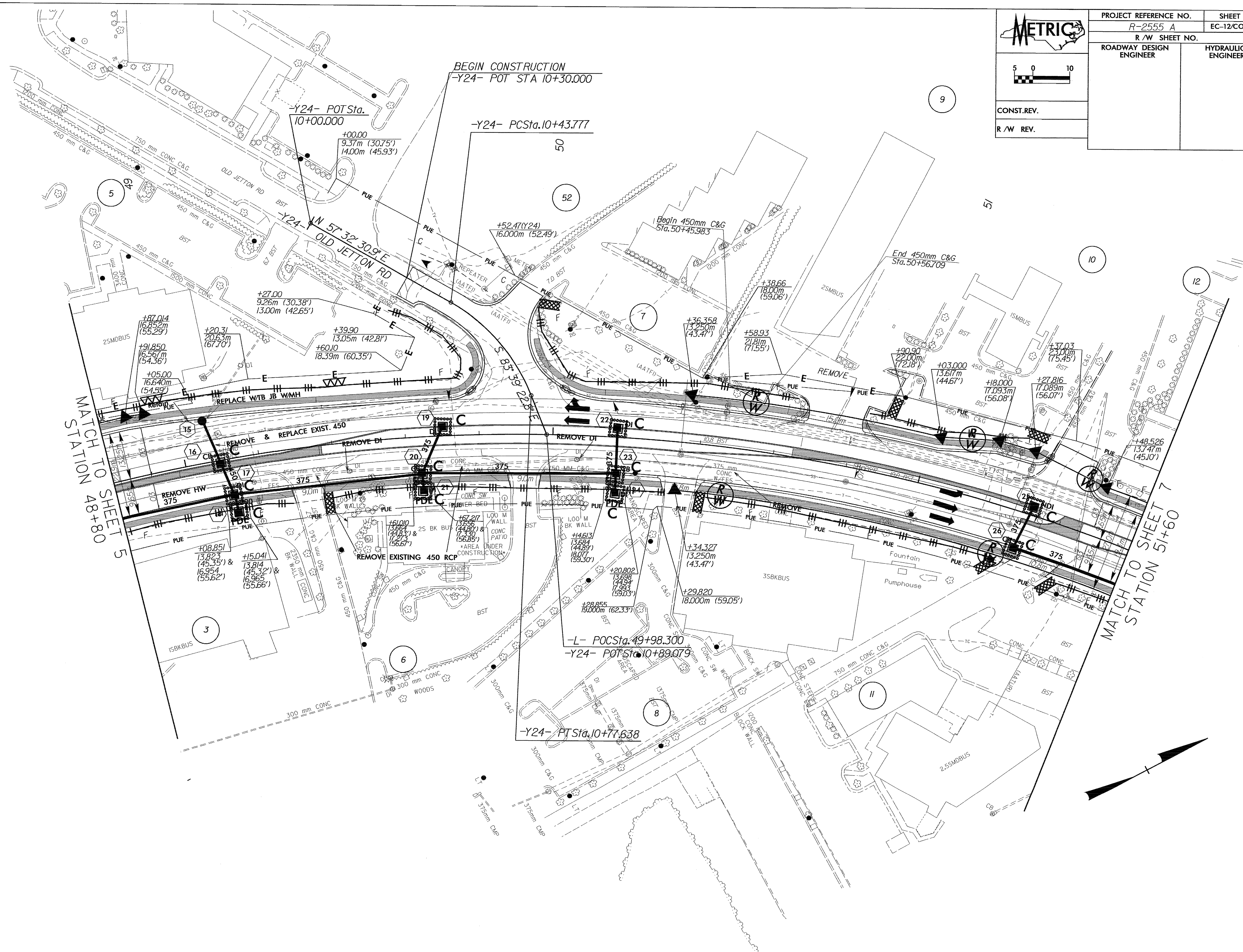
8/17/93



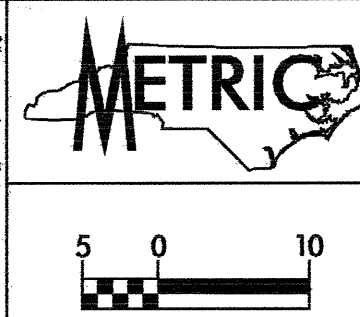
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|-------------------------|---------------------|
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| R-2555 A | EC-12/CONST.6 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



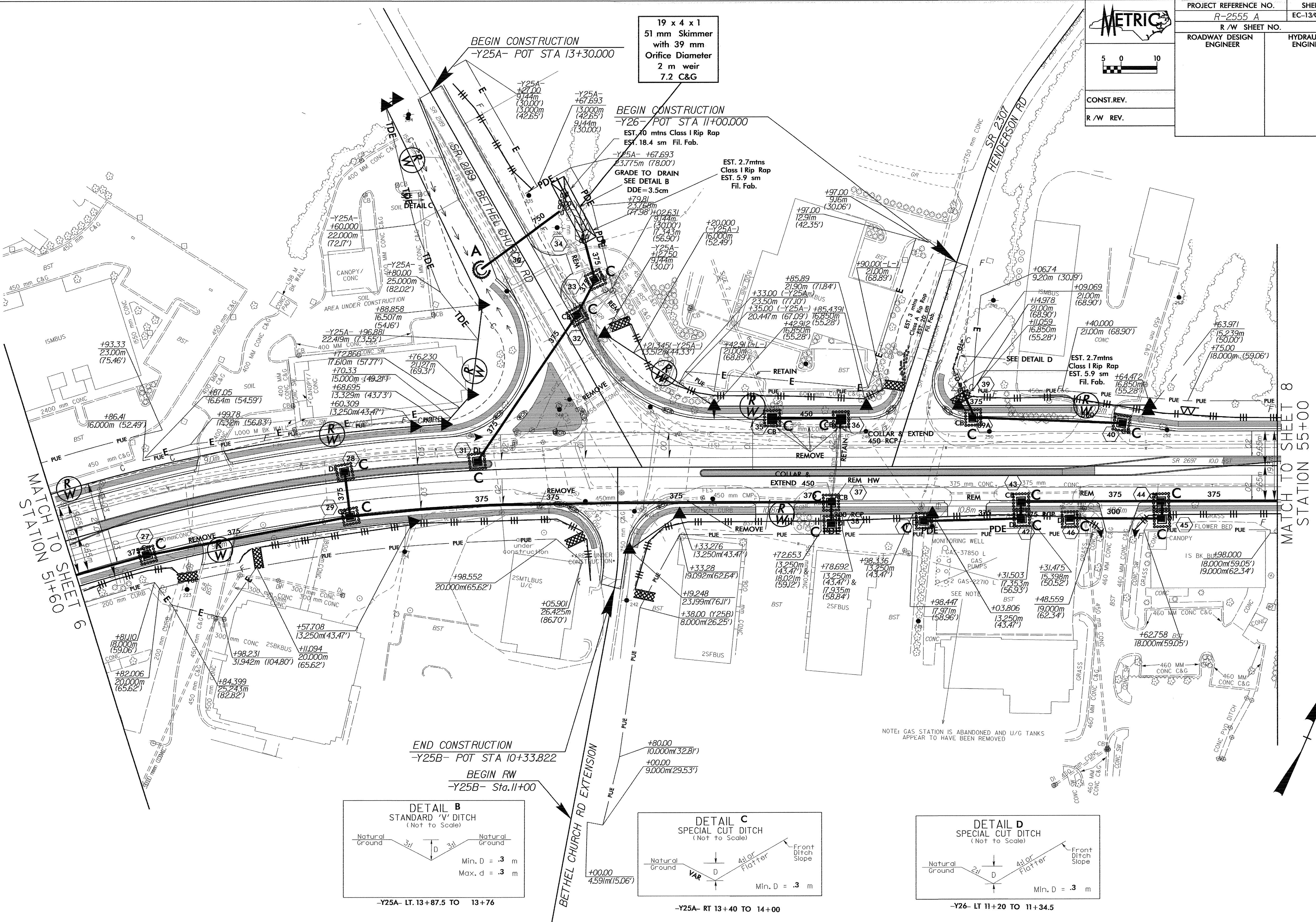
CONST. REV.
R/W REV.



B.17.25



| | |
|-----------------------------------|----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-13/CONST.7 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST. REV. | |
| R/W REV. | |



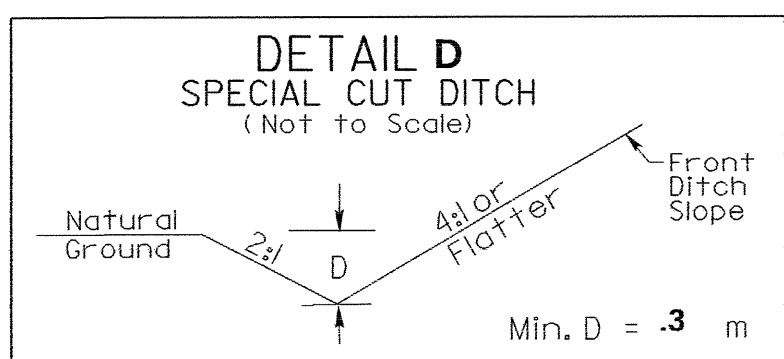
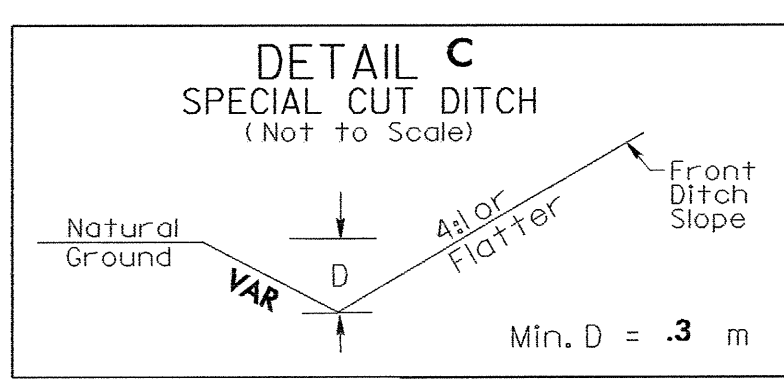
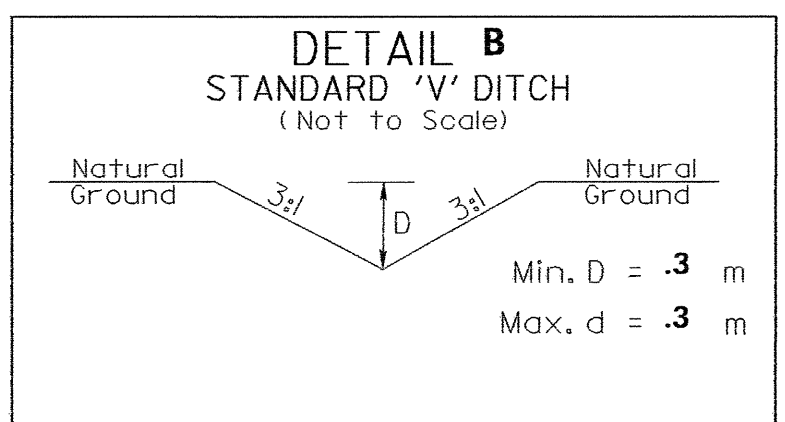
19 x 4 x 1
51 mm Skimmer
with 39 mm
Orifice Diameter
2 m weir
7.2 C&G

BEGIN CONSTRUCTION
-Y25A- POT STA 13+30.00

BEGIN CONSTRUCTION
-Y26- POT STA 11+00.00

END CONSTRUCTION
-Y25B- POT STA 10+33.822

BEGIN RW
-Y25B- Sta. 11+00



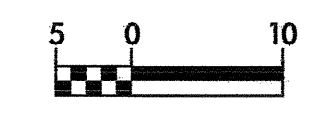
NOTE: GAS STATION IS ABANDONED AND U/G TANKS APPEAR TO HAVE BEEN REMOVED

MATCH TO SHEET 8
STATION 55+00

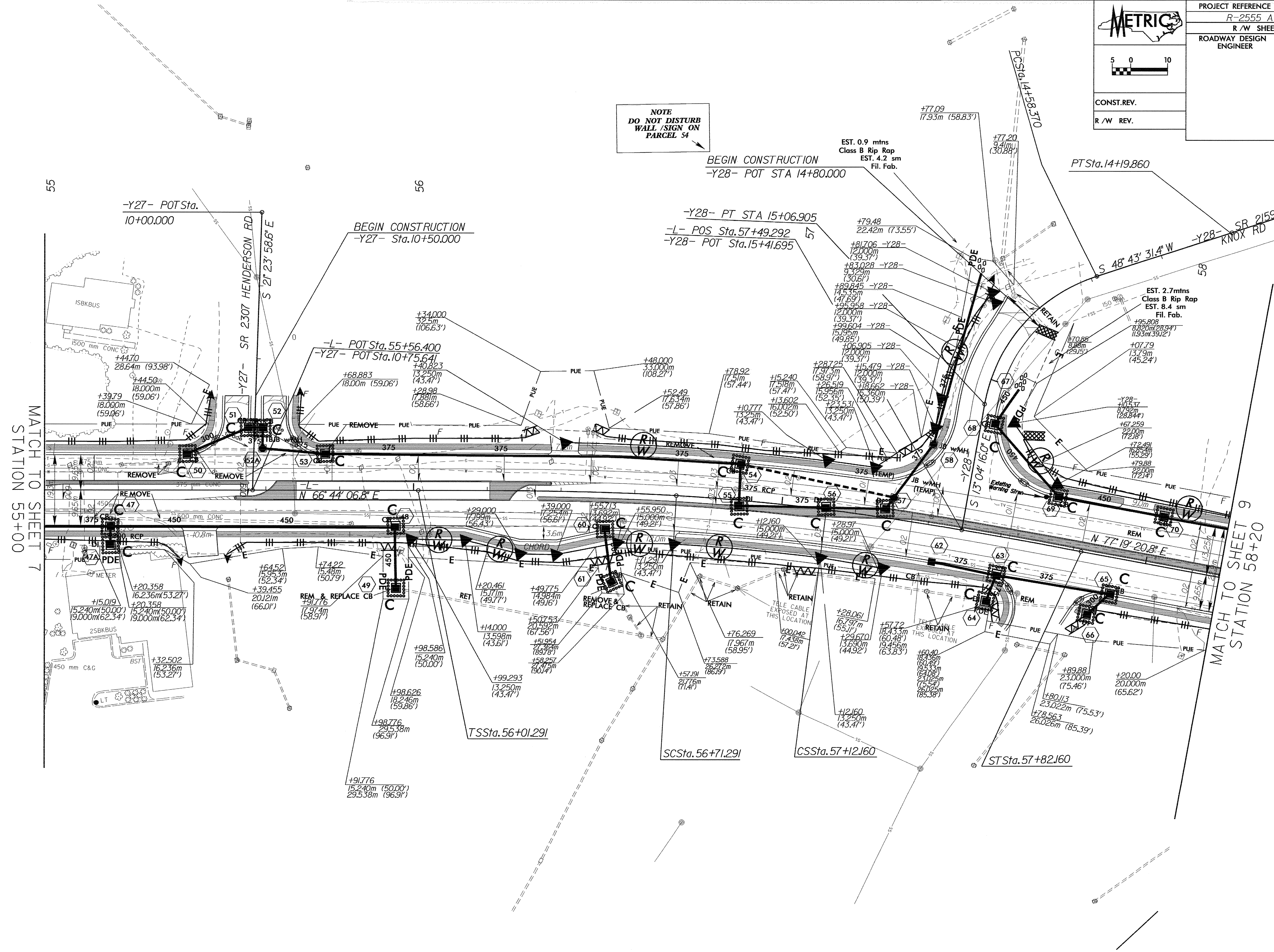
MATCH TO SHEET 6
STATION 51+60



| | |
|-----------------------------------|----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-14/CONST.8 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

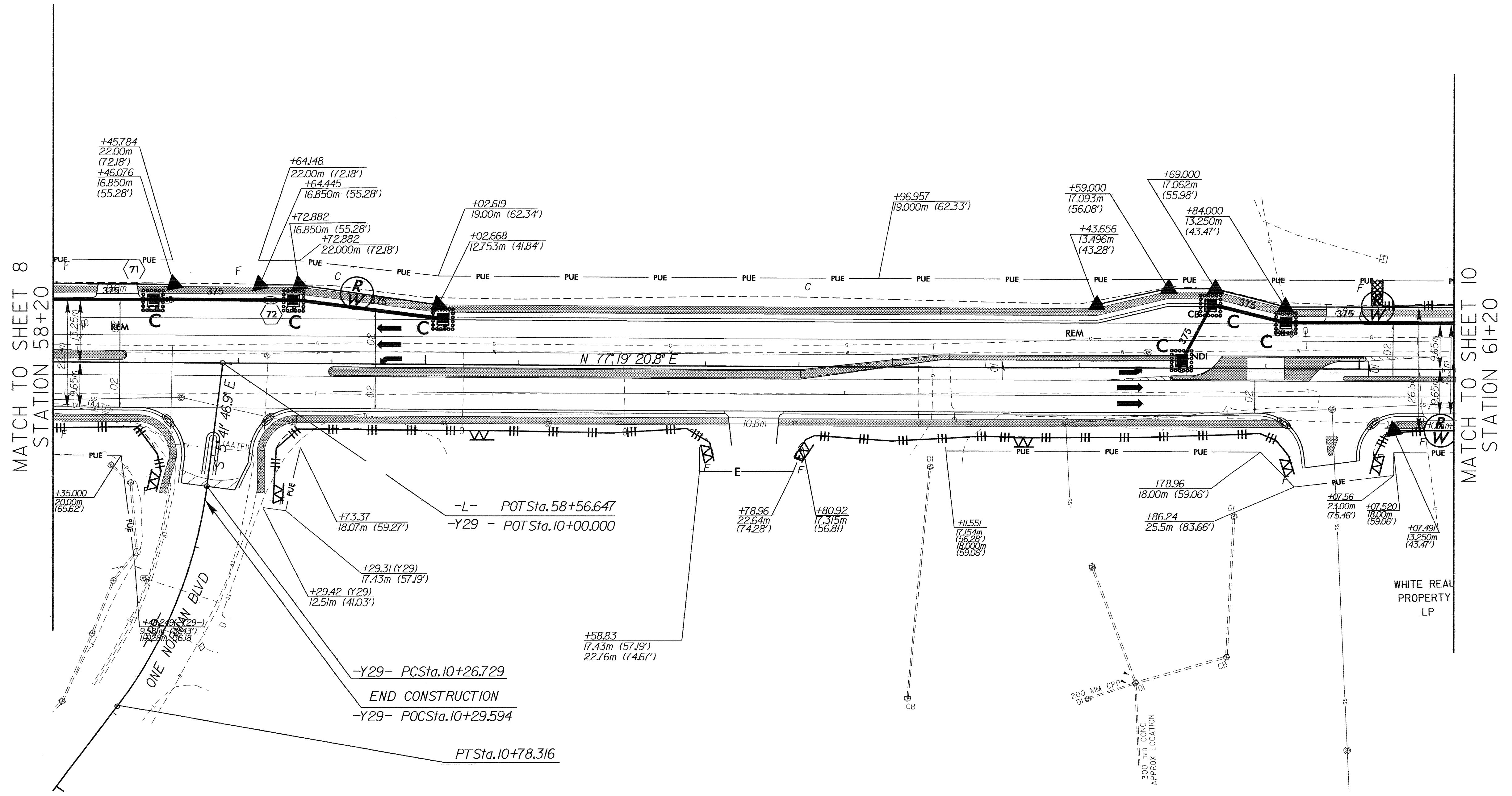


NOTE
DO NOT DISTURB
WALL / SIGN ON
PARCEL 54



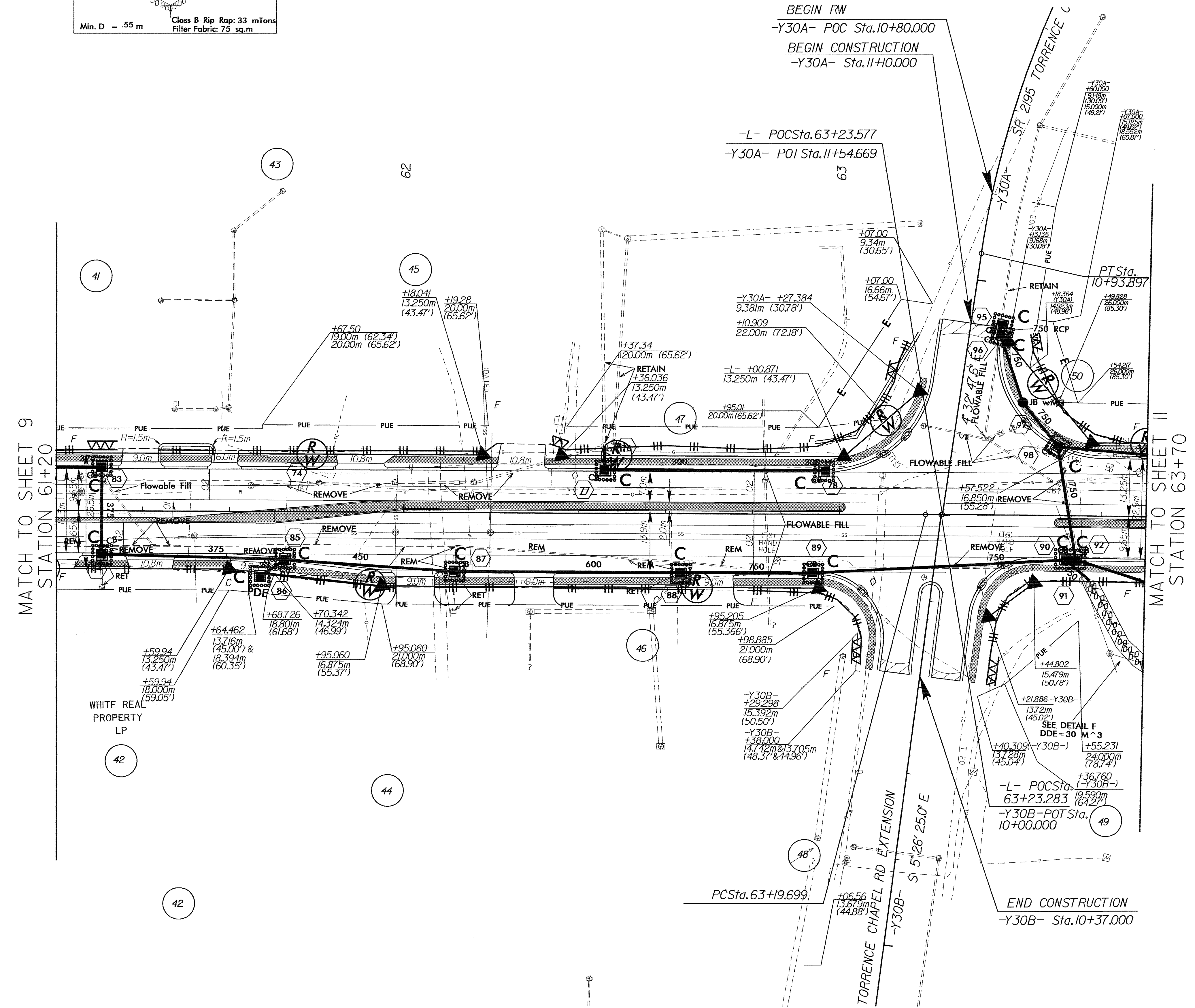
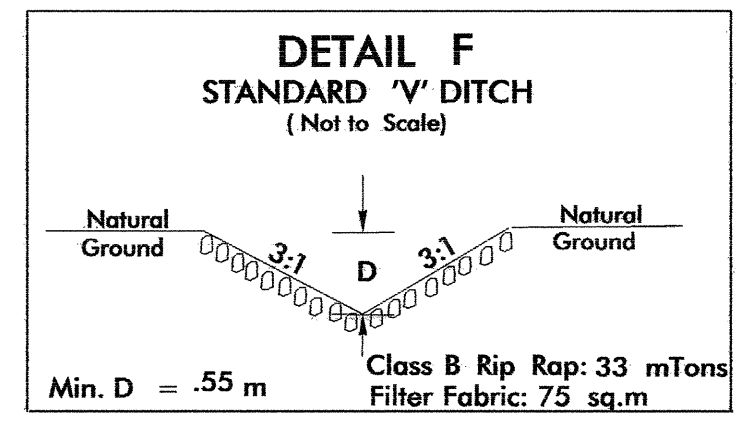
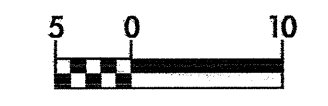


| | |
|-----------------------------------|----------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-15/CONST.9 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |





| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2555 A | EC-16/CONST.10 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST. REV. | |
| R/W REV. | |



MATCH TO SHEET 9
STATION 61+20

MATCH TO SHEET 11
STATION 63+70

WHITE REAL
PROPERTY
LP

TORRENCE CHAPEL RD EXTENSION
S 5° 26' 25.0" E

END CONSTRUCTION
-Y30B- Sta. 10+37.000

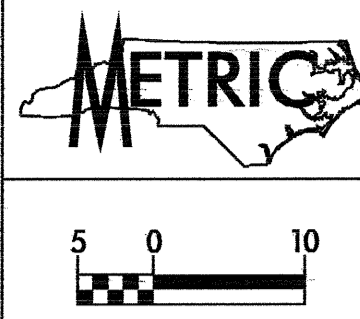
SEE DETAIL F
DDE=30 M~3

-L- POC Sta. 63+23.283
-Y30B-POT Sta. 10+00.000

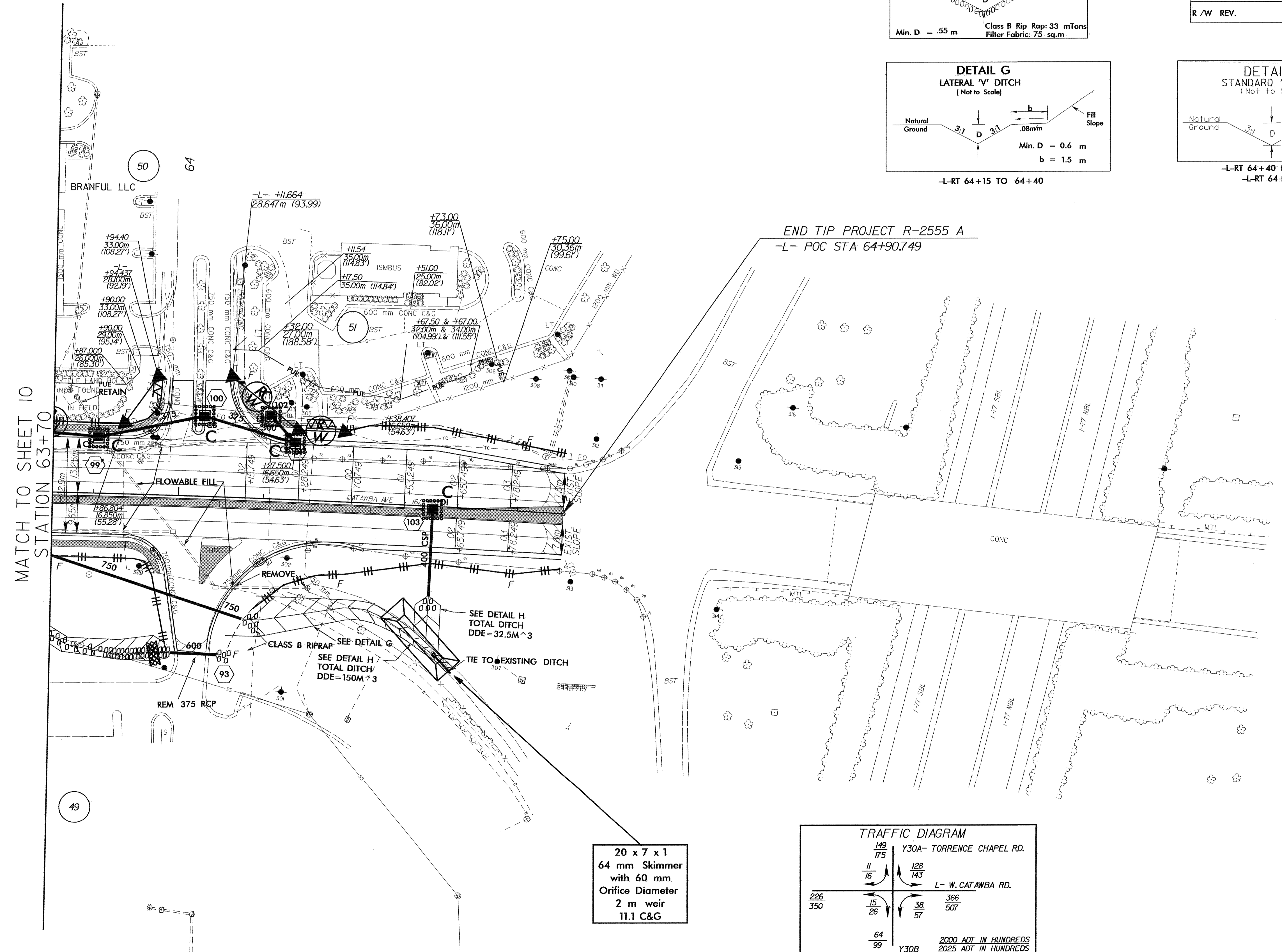
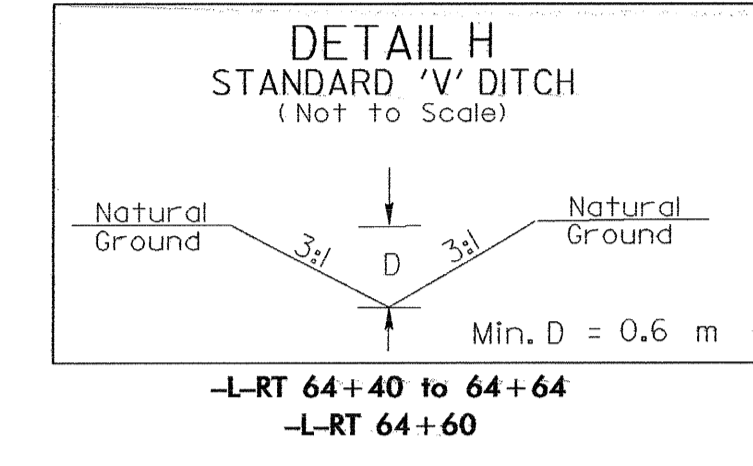
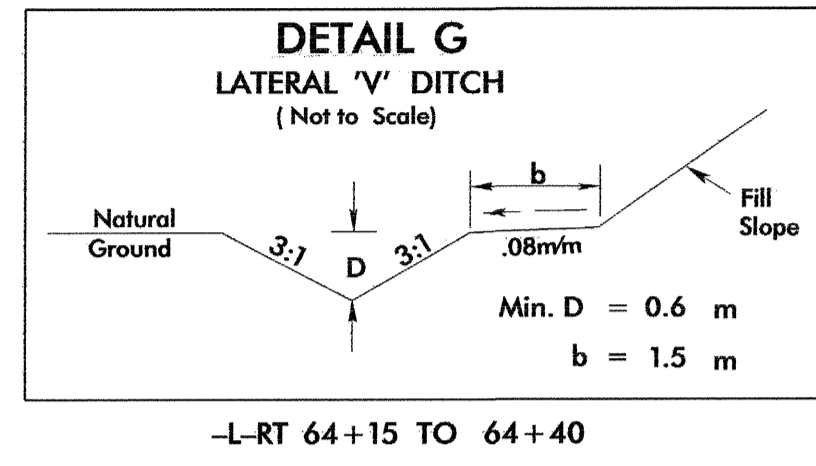
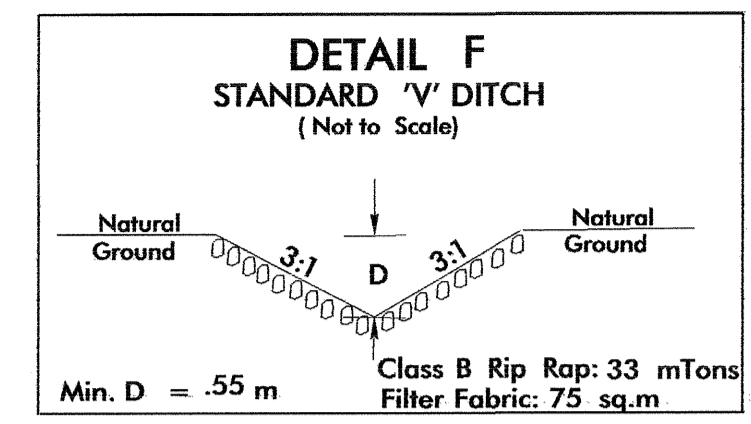
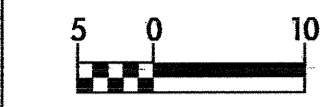
PC Sta. 63+19.699

-L- POC Sta. 63+23.577
-Y30A- POT Sta. 11+54.669

BEGIN RW
-Y30A- POC Sta. 10+80.000
BEGIN CONSTRUCTION
-Y30A- Sta. 11+10.000



| | |
|-----------------------------------|------------------------------|
| PROJECT REFERENCE NO. R-2555 A | SHEET NO. EC-17/CONST. II |
| R / W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST. REV. | |
| R / W REV. | |



END TIP PROJECT R-2555 A
-L- POC STA 64+90.749

MATCH TO SHEET 10
STATION 63+70

20 x 7 x 1
64 mm Skimmer
with 60 mm
Orifice Diameter
2 m weir
11.1 C&G

