CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

DETAIL 6
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground, 2H, D, 4:1 or Flatter, Fill Slope
Min. D = 0.5 m
STA. 27+00.000 -L- RT. TO STA. 28+40.000 -L- RT.

DETAIL 2
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground, 2H, dI, D, 4:1 or Flatter, Fill Slope, Filter Fabric
Min. D = 0.5 m
Max. d = 0.3 m
Type of Liner = CLASS 'B' RIPRAP
STA. 30+80.000 -L- LT. TO STA. 31+50.000 -L- LT.

DETAIL 5
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 2H, dI, D, 2:1, Natural Ground, Filter Fabric, B
Min. D = 0.3 m
Max. d = 0.3 m
B = 1.2 m
* When B Is < 1.8m
Type of Liner = CLASS 'B' RIPRAP
STA. 31+36.500 -L- LT.

METRIC
5 0 10
CONST.REV.
R /W REV.

PROJECT REFERENCE NO.	SHEET NO.
R-3303	EC-8/CONST.9
R /W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

10 x 3 x 1
1.5 weir

5 x 3 x 1
1.5 weir

NC GRID
NAD 83

28+00

29+00

30+00

31+00

CLASS 'B' RIPRAP
2.7 MTNS
9.2 SM FF

7 JEAN WEBB DB 347 PG 183

+97
19.351m, 23.000m
(63.49'), (75.46')

+03
19.331m, 23.000m
(63.36'), (75.48')

+60.000
21.596m
(70.85')

+79.987
19.464m
(63.86')

+50.000
19.000m
(62.34')

+40.000
18.000m
(59.06')

BL-18
PINC 27+24.020
STA. 30+11.776 -L-
2.039 m RT.

SPECIAL LAT. 'V' DITCH LINED
W/CLASS 'B' RIPRAP
STA 30+80 LT TO
STA 31+50 LT -L-
SEE DETAIL #2

CLASS 'B' RIPRAP

+80
21m
(68.90') 375

+30.000
19.158m, 27.000m
(62.85'), (88.58')

1.2m BASE HEAD
DITCH LINED
W/CLASS 'B' RIPRAP
SEE DETAIL #5
DDE=10.5 CM
18 MTNS
26 SM FF

+40.000
18.789m, 27.000m
(61.65'), (88.58')

PDE

BL-19
PINC 28+41.949
STA. 31+29.705 -L-
1.921m RT.

MATCHLINE STA.27+60.000
SEE SHEET 8

MATCHLINE STA.31+50.000
SEE SHEET 10

GRAU-350

-L-

S 26° 02' 57.9" E

S 26° 06' 23.7" E

S 27° 36' 53.3" E

SPECIAL LAT. 'V' DITCH
STA 27+00 RT TO
STA 28+40 RT -L-
SEE DETAIL #6
SEE PROFILE FOR GRADE

+03.000
26.000m
(85.30')

+50.000
19.000m
(62.34')

+20.000
18.000m
(59.06')

SPECIAL DITCH
STA 30+20 RT TO
STA 30+40 RT -L-

6 x 3 x 1
1.5 weir

6 x 3 x 1

+00.000
18.000m
(59.06')

+40.000
25.000m
(82.02')

S41.843

S28°20'53"E

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 1.2 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.20 CMS
DESIGN HW ELEVATION	= 149.47 M
100 YEAR DISCHARGE	= 0.24 CMS
100 YEAR HW ELEVATION	= 149.54 M
OVERTOPPING FREQUENCY	= +/-100 YRS
OVERTOPPING DISCHARGE	= +/-0.24 CMS
OVERTOPPING ELEVATION	= 149.6 M

TBM #5
135.95m LT. -BL- STA 31+55.816
ELEV.128.90'

-L-
PI = 29+80.330
EL = 148.258 m
K = 1141
VC = 197.578 m
DS = 100 km/h

+60.000 RT.
EL = 150.000

+00.000 RT.
EL = 149.000

+07.500%

-2.500%

+40.000 RT.
EL = 149.300

Special Lat. "I" Ditch Rt.

-2.333%

-3.064%

+20.000 RT.
EL = 145.116

-5.050%

+40.000 RT.
EL = 144.700

PROPOSED GRADE

EXISTING GROUND

Special Ditch Rt.

+80.000 LT.
EL = 142.500

-5.000%

-6.000%

+00.000 LT.
EL = 141.500

-10.000%

+36.000 LT.
EL = 139.340

Special Lat. "I" Ditch Lt.

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 2.2 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.37 CMS
DESIGN HW ELEVATION	= 139.88 M
100 YEAR DISCHARGE	= 0.43 CMS
100 YEAR HW ELEVATION	= 139.96 M
OVERTOPPING FREQUENCY	= +/-100 YRS
OVERTOPPING DISCHARGE	= +/-0.43 CMS
OVERTOPPING ELEVATION	= 140.0 M

+60 +80 28 +20 +40 +60 +80 29 +20 +40 +60 +80 30 +20 +40 +60 +80 31 +20 +40

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