PROJECT REFERENCE NO. U-5809

SHEET NO. 2C-1 TION

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TRANSPORTAT
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EIGH, N.C.

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**FOR** 

GENERAL NOTES :

1- CONSTRUCT PROPOSED STEEL PIPE RAIL OF  $1\frac{1}{2}$ " DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53. EMBED PIPE RAIL 8" INTO PROPOSED STEPS WITH CHEMICAL OR CONCRETE GROUT ANCHORING SYSTEM AS DIRECTED BY THE ENGINEER.

2- USE A ROTARY DRILL FOR DRILLING THE HOLES FOR THE PIPE RAIL. NO IMPACT DRILLS

3- USE CLASS "B" CONCRETE THROUGHOUT FOR CONCRETE STEPS.

4- LOCATION AND QUANTIES SHOWN ARE APPROXIMATE ONLY. EXACT LOCATION AND QUANTIES WILL BE DETERMINED BY THE ENGINEER.

5- ALL WORK AS DIRECTED BY THE ENGINEER.

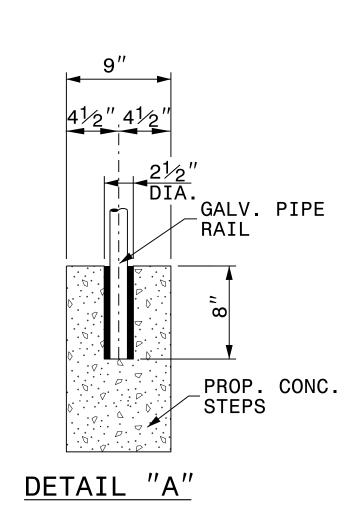
6- REPAIR OF GALVANIZING IN ACCORDANCE WITH SCT.1076 OF THE STANDARD SPECIFICATIONS.

8- 2" CLEAR SPACING ON ALL REINFORCING BARS.

9- EXTEND HORIZONTAL REINFORCING BARS UPWARD INTO SIDE WALLS.

10- ALL HANDRAILS AND STEPS MUST COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN.

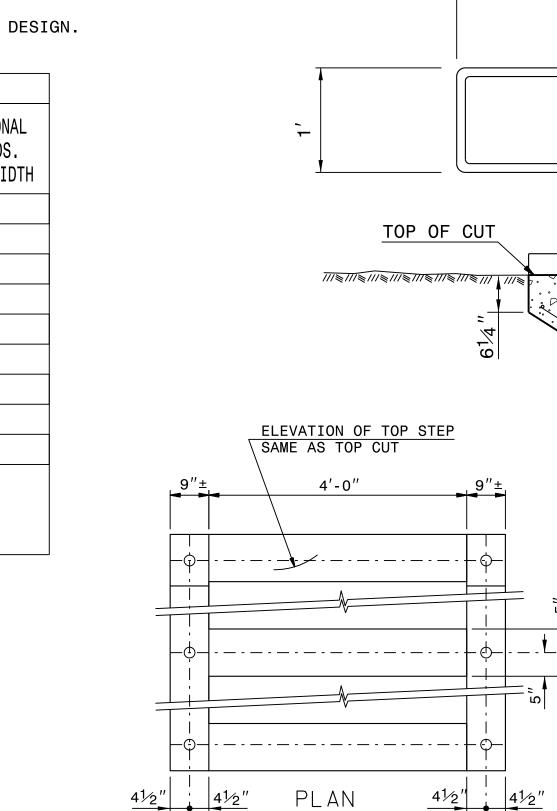
CUBIC YARDS IN STANDARD CONCRETE STEPS					
NO. OF STEPS	4' WIDE	5' WIDE	6' WIDE	7' WIDE	ADDITIONAL CU. YDS. PER 1' WIDTH
2	0.4	0.5	0.5	0.6	0.1
3	0.6	0.7	0.8	0.9	0.1
4	0.8	0.9	1.0	1.2	0.1
5	1.0	1.2	1.3	1.4	0.1
6	1.2	1.4	1.5	1.7	0.2
7	1.4	1.6	1.8	2.0	0.2
8	1.6	1.8	2.0	2.3	0.2
9	1.8	2.0	2.3	2.6	0.3
10	2.0	2.3	2.5	2.8	0.3
ADDITIONAL STEP INCREMENT	0.2	0.2	0.2	0.3	0.1



SHEET 1 OF 1 844D01

ALLOWED.

7- WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.



7'-0" MAX.

FRONT ELEVATION

FOOTING

4'-0"

ELEVATION OF TOP CUT

ELEVATION OF ROADWAY
DITCH OR GUTTER

-SEE DETAIL "A"

DRAWING M AI DET 囯 **ENGLISH** CONCRE

ROADWAY SHLDR

SHEET 1 OF 1 844D01

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

SEE PLATE FOR TITLE

ORIGINAL BY: T.Spell DATE: Oct.7,1998

MODIFIED BY: DATE: DATE: DATE: DATE: SILE SPEC: S:usr/details/stand/844d01e.dgn

61/4

7'-0" MAX.

1½" DIA. PIPE RAIL

11" TREAD MIN.

#4 BARS SPACED ON 12" CTRS. EACH WAY

SECTION

CONCRETE STEPS

**DOCUMENT NOT CONSIDERED FINAL** UNLESS ALL SIGNATURES COMPLETED