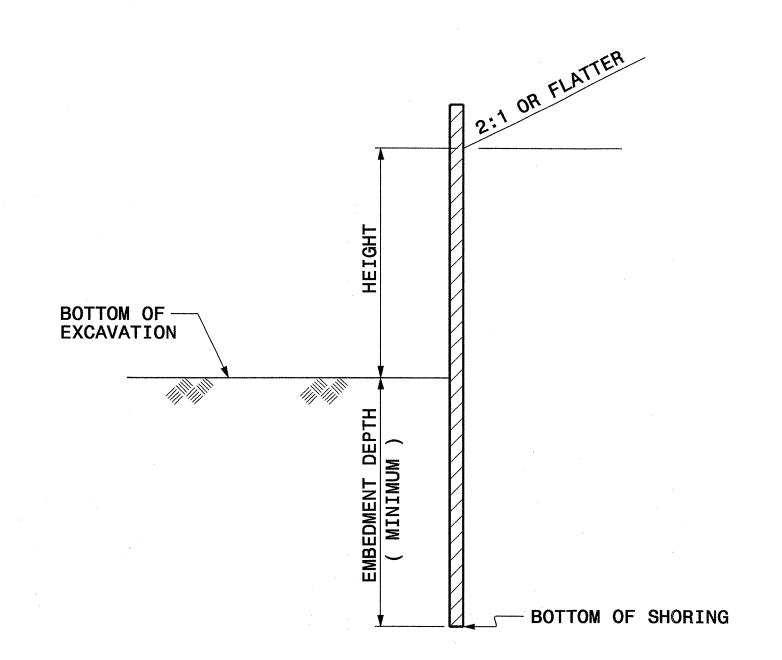
#ETRIC



TEMPORARY SHORING

(SLOPING OR LEVEL WITH TRAFFIC SURCHARGE, NO BARRIER IMPACT)

## BOTTOM OF EXCAVATION HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT BOTTOM OF SHORING

## TEMPORARY SHORING - BARRIER SUPPORTED

(LEVEL WITH TRAFFIC SURCHARGE, WITH BARRIER IMPACT)

## **NOTES**

FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE SPECIAL PROVISIONS.

SELECT THE APPROPRIATE STANDARD SHORING DESIGN FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC IN LIEU OF SUBMITTING CONTRACTOR SHORING DESIGN. USE STANDARD SHORING DESIGN ONLY WHEN ALL OF THE FOLLOWING CRITERIA ARE MET:

- MAXIMUM HEIGHT OF SHORING EXCAVATION IS 3.3m
- GROUNDWATER TABLE IS NOT ABOVE BOTTOM OF THE EXCAVATION
- BACKFILL SLOPE IS 2:1 OR FLATTER
- TRAFFIC SURCHARGE EQUAL TO 11.0 kPa
- SOLDIER PILE SPACING OF 1.8m
   TIMBER LAGGING SHALL HAVE A MINIMUM THICKNESS OF 76mm

SUBMIT "STANDARD SHORING SELECTION" FORM TO ENGINEER PRIOR TO CONSTRUCTION OF SHORING.

DO NOT USE THE STANDARD SHORING DESIGNS WHEN VERY SOFT SOIL OR MUCK IS PRESENT WITHIN THE SHORING EMBEDMENT ZONE.

CONTRACTOR MUST VERIFY LOCATION OF GROUNDWATER TABLE PRIOR TO CONSTRUCTION OF SHORING.

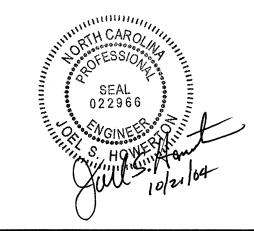
THE CONTRACTOR HAS THE OPTION OF USING SOLDIER PILES SET IN DRILLED HOLES WITH A SHORTENED LENGTH EQUAL TO 75% OF THE EMBEDMENT DEPTHS SHOWN IN THE TABLE. FOR DRILLING REQUIREMENTS, SEE TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC SPECIAL PROVISION.

IF DESIGN EMBEDMENT DEPTH IS NOT ACHIEVED, THEN NOTIFY THE ENGINEER IMMEDIATELY.

## GROUNDWATER TABLE CONDITIONS

- 1) WHEN WATER TABLE IS ABOVE THE BOTTOM OF EXCAVATION, SUBMIT CONTRACTOR SHORING DESIGN TO THE ENGINEER FOR APPROVAL.
- 2) WHEN WATER TABLE IS BELOW THE BOTTOM OF EXCAVATION AND ABOVE THE BOTTOM OF SHORING, USE "WATER TABLE" CASE.
- 3) WHEN WATER TABLE IS BELOW BOTTOM OF SHORING, USE "NO WATER TABLE" CASE.

		TEMPORARY SHORING						TEMPORARY SHORING - BARRIER SUPPORTED				
		CANTILEV	ER SHEETING	DRIVEN SOLDIER PILE MINIMUM EMBEDMENT DEPTH (m)			CANTILEVER SHEETING		DRIVEN SOLDIER PILE			
CASE	HEIGHT (m)	MINIMUM EMBEDMENT DEPTH (m)	MINIMUM SECTION  MODULUS  (cm <sup>3</sup> / m OF WALL)				MINIMUM EMBEDMENT	MINIMUM SECTION	MINIMUM EMBEDMENT DEPTH (m)			
				HP 250x62	HP 310x79	HP 360x108	DEPTH (m)	(cm³/ m OF WALL)	HP 250x62	HP 310x79	HP 360x108	
"NO WATER TABLE"	< 1.8	2.3	160	2.4	2.4	2.4	3.4	540	2.9	2.9	2.9	
	2.1	2.6	240	2.9	2.9	2.9	3.7	650	3.2	3.2	3.2	
	2.4	3.0	350	3.2	3.2	3.2	3.8	750	3.5	3.5	3.5	
	2.7	3.4	510		3.7	3.7	4.1	890		3.8	3.8	
	3.0	3.8	700	<b>-</b> .	<b>-</b> -	4.2	4.3	1050	-	4.2	4.2	
	3.3	4.1	920			4.5	4.6	1210	-		4.5	
"WATER TABLE"	< 1.8	3.5	240	3.5	3.5	3.5	4.9	650	4.0	4.0	4.0	
	2.1	4.0	380	4.0	4.0	4.0	5.2	780	4.5	4.5	4.5	
	2.4	4.6	540		4.6	4.6	5.5	920		4.7	4.7	
	2.7	5.2	750		5.2	5.2	5.8	1080	: -	5.2	5.2	
	3.0	5.6	1050			5.7	6.1	1270	· <b></b>		5.7	
	3.3	6.3	1400				6.4	1510			6.1	



DESIGN SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 919-250-4128 FAX 919-250-4119

STANDARD TEMPORARY
SHORING FOR
MAINTENANCE OF TRAFFIC

ORIGINAL BY: SOILS & FOUNDATIONSDATE: 10-2001

MODIFIED BY: DATE: DATE: 10-01

FILE SPEC.: ericward: Just/details/stand/shoring detail.dg

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