| GROUNDWATER CONDITION (SEE NOTE 6) | H SHORING HEIGHT (FT) | SLOPE OR SURCHARGE CASE WITH NO TRAFFIC IMPACT | | | | | SURCHARGE CASE WITH TRAFFIC IMPACT | | | | |
|---|--------------------------------|--|--|--|----------|----------|------------------------------------|--|--|----------|----------|
| | | SHEET PILES | | H-PILES WITH TIMBER LAGGING | | | SHEET PILES | | H-PILES WITH TIMBER LAGGING | | |
| | | MINIMUM REQUIRED EMBEDMENT (FT) | MINIMUM REQUIRED SECTION MODULUS (IN ³ /FT) | MINIMUM REQUIRED EMBEDMENT* (FT) (SEE NOTE 10) | | | MINIMUM REQUIRED EMBEDMENT | MINIMUM REQUIRED | MINIMUM REQUIRED EMBEDMENT* (FT) (SEE NOTE 10) | | |
| | | | | HP IOx42 | HP 12x53 | HP 14x73 | (FT) | SECTION MODULUS (IN ³ /FT) | HP IOx42 | HP 12x53 | HP 14x73 |
| GROUNDWATER ELEVATION BEWTEEN BOTTOM OF SHORING AND PILE TIP | < 6 | 11.5 | 4.5 | 11.5 | 11.5 | 11.5 | 16.0 | 12.0 | 13.0 | 13.0 | 13.0 |
| | 7 | 13.0 | 7.0 | 13.0 | 13.0 | 13.0 | 17.0 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 8 | 15.0 | 10.0 | | 15.0 | /5.0 | 18.0 | 17.0 | | 15.5 | /5.5 |
| | 9 | 17.0 | 14.0 | | 17.0 | 17.0 | 19.0 | 20.0 | | 17.0 | 17.0 |
| | 10 | 18.5 | 19.5 | | | 18.5 | 20.0 | 23.5 | | | 18.5 |
| | | 20.5 | 26.0 | | | | 21.0 | 28.0 | | | 20.0 |
| | 12 | 22.5 | 33.0 | | | | 22.0 | 33.0 | | | 21.5 |
| GROUNDWATER ELEVATION BELOW PILE TIP | < 6 | 7.5 | 3.0 | 8.0 | 8.0 | 8.0 | 11.0 | 10.0 | 9.5 | 9.5 | 9.5 |
| | 7 | 8.5 | 4.5 | 9.5 | 9.5 | 9.5 | 12.0 | 12.0 | 10.5 | 10.5 | 10.5 |
| | 8 | 10.0 | 6.5 | 10.5 | 10.5 | 10.5 | 12.5 | 14.0 | 11.5 | 11.5 | //.5 |
| | 9 | 11.0 | 9.5 | | 12.0 | 12.0 | 13.5 | 16.5 | | 12.5 | 12.5 |
| | 10 | 12.5 | 13.0 | | | 13.5 | 14.0 | 19.5 | | 13.5 | 13.5 |
| | | 13.5 | 17.0 | | | 14.5 | 15.0 | 22.5 | | | 14.5 |
| | 12 | 15.0 | 21.5 | | | 16.0 | 16.0 | 25.5 | | | 15.5 |

*DO NOT USE H-PILES WITH TIMBER LAGGING FOR

