



SOIL DESIGN PARAMETERS:
 γ = 120 pcf
 ϕ = 32°
 c = 0

- PIER 3 & 4 SEQUENCE:**
1. EXCAVATE AND PLACE TRENCH SHIELD
 2. INSTALL PILES
 3. FORM AND POUR FOOTINGS
 4. FORM AND POUR COLUMNS
 5. REMOVE SHIELD AND BACKFILL FOOTINGS

PLAN
SCALE: 1:10

- PIER 2 SEQUENCE:**
1. INSTALL CONTRACT PILES
 2. INSTALL SHEET PILES
 3. EXCAVATE FOOTING
 4. FORM AND POUR FOOTING
 5. FORM AND POUR COLUMN
 6. REMOVE SHEET PILES AND BACKFILL FOOTINGS

TRENCH SHIELD

1. THE TRENCH SHIELD MODEL AND DIMENSIONS SHALL BE THE ONE SHOWN ON THESE PLANS OR AN APPROVED EQUAL. IF AN ALTERNATE SHIELD IS SELECTED ENGINEERING DATA MUST BE SUBMITTED AND APPROVED PRIOR TO BEGINNING EXCAVATION.
2. THE TRENCH SHIELD SHALL BE USED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS
3. EXCAVATE WHILE LOWERING TRENCH SHIELD
6. VOIDS BETWEEN THE SHIELD PLATES AND EXCAVATION LINE SHALL BE FILLED WITH SOIL OR BEDDING MATERIAL.
7. TRENCH SHIELD LOADING INCLUDES TRAFFIC AND CONSTRUCTION EQUIPMENT SURCHARGES PER NOTE 6 OF TABULAR DATA
8. END PLATES SHALL NOT BEAR AGAINST TUBULAR STEEL CROSS SPREADERS

SAFETY

9. NOTIFY ENGINEER PRIOR TO THE PLACEMENT OF CONSTRUCTION EQUIPMENT CLOSER THAN 1' TO THE EXCAVATION
10. NO MODIFICATIONS TO THE TRENCH SHIELD SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE MANUFACTURER
11. THE TRENCH SHIELD SHALL BE INSPECTED BEFORE USE. THE CAPACITY SHOWN IN THE TABULAR DATA ASSUMES THE TRENCH SHIELD IS IN SOUND STRUCTURAL CONDITION. IF ANY DAMAGE IS FOUND DO NOT INSTALL THE SHIELD AND CONTACT THE MANUFACTURER.

EQUIPMENT

SHORING IS DESIGNED FOR SURCHARGE FROM A TRACK MOUNTED DRILL RIG WEIGHING 68,000 LBS. HEAVIER EQUIPMENT MUST BE APPROVED BY THE ENGINEER BEFORE USE.

SHEET PILE NOTES:

STEEL SHEET PILING SHALL BE ACCURATELY LOCATED AND DRIVEN TO THE TIP ELEVATIONS INDICATED ON THE DRAWINGS. THE PILES SHALL BE DRIVEN PLUMB AND TRUE TO LINE WITH EACH PILE INTERLOCKED WITH ADJOINING PILES FOR ITS ENTIRE LENGTH.

STEEL SHEET PILING SHALL BE DRIVEN BY APPROVED METHODS IN SUCH MANNER AS NOT TO SUBJECT THE PILES TO DAMAGE AND TO ENSURE INTERLOCKING THROUGHOUT THE LENGTH OF THE PILES. PILE HAMMERS SHALL BE OF THE SIZE AND TYPE NECESSARY TO INSTALL THE PILES TO THE REQUIRED PENETRATION WITH MINIMUM DAMAGE TO THE PILES. AVOID CONTACTING BENT CAPS WITH DRIVING HAMMER.

STEEL SHEET PILING SHALL BE DRIVEN PLUMB. IF SHEET PILING BECOMES PROGRESSIVELY OUT OF PLUMB DURING DRIVING, MEANS SHALL BE EMPLOYED TO CORRECT THE CONDITION. IF THE SHEET PILING SHALL BE WITHDRAWN AND RE-DRIVEN SO THAT NO PART OF ANY PILE IS MORE THAN THREE (3) INCHES FROM DESIGN LOCATION OF THE BULKHEAD ALIGNMENT AT COMPLETION OF THE WORK.

STEEL SHEET PILING SHALL BE DRIVEN IN STAGES. NO SHEET PILE, OR PAIR OF SHEET PILES IF DRIVING IN PAIRS, SHALL BE DRIVEN MORE THAN ONE-THIRD OF ITS LENGTH BEFORE ADJACENT SHEET PILING IS SET.

IF PILING IS DAMAGED DURING INSTALLATION OR DRIVEN OUT OF INTERLOCK FOR ANY REASON, IT SHALL BE REMOVED AND REPLACED. THE ENGINEER RESERVES THE RIGHT TO HAVE PILING REMOVED AND REPLACED IF HE HAS REASON TO BELIEVE THAT IT IS IN DAMAGED CONDITION.

AUTHORIZED
 Pursuant to Section 5-1.23
 of the Standard Specifications

 State of California
 DEPARTMENT OF TRANSPORTATION
 Division of Engineering Services
 Offices of Structure Construction

 Signed *King Yeap*
 Structure Representative
 Date *2/26/14* EXISTING EOD



REVISION	DATE	DESCRIPTION

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PIER EXCAVATION
BROOKHURST
 PROJECT: BROOKHURST
 10231 JORDES 1200
 SHEET NUMBER:
1
 OF 1 SHEETS
 CONTR # 12-063701