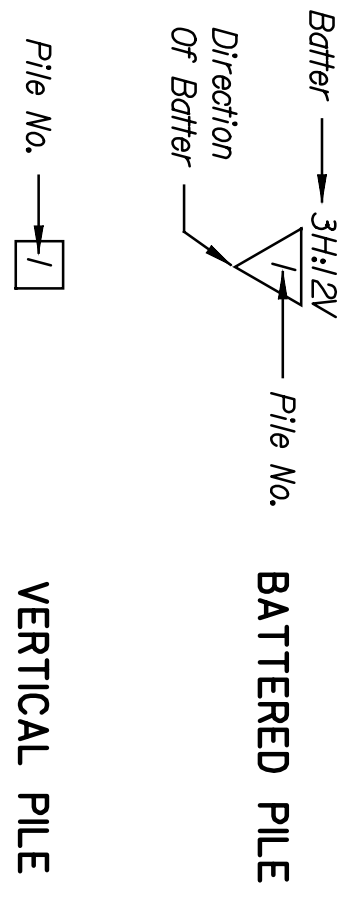
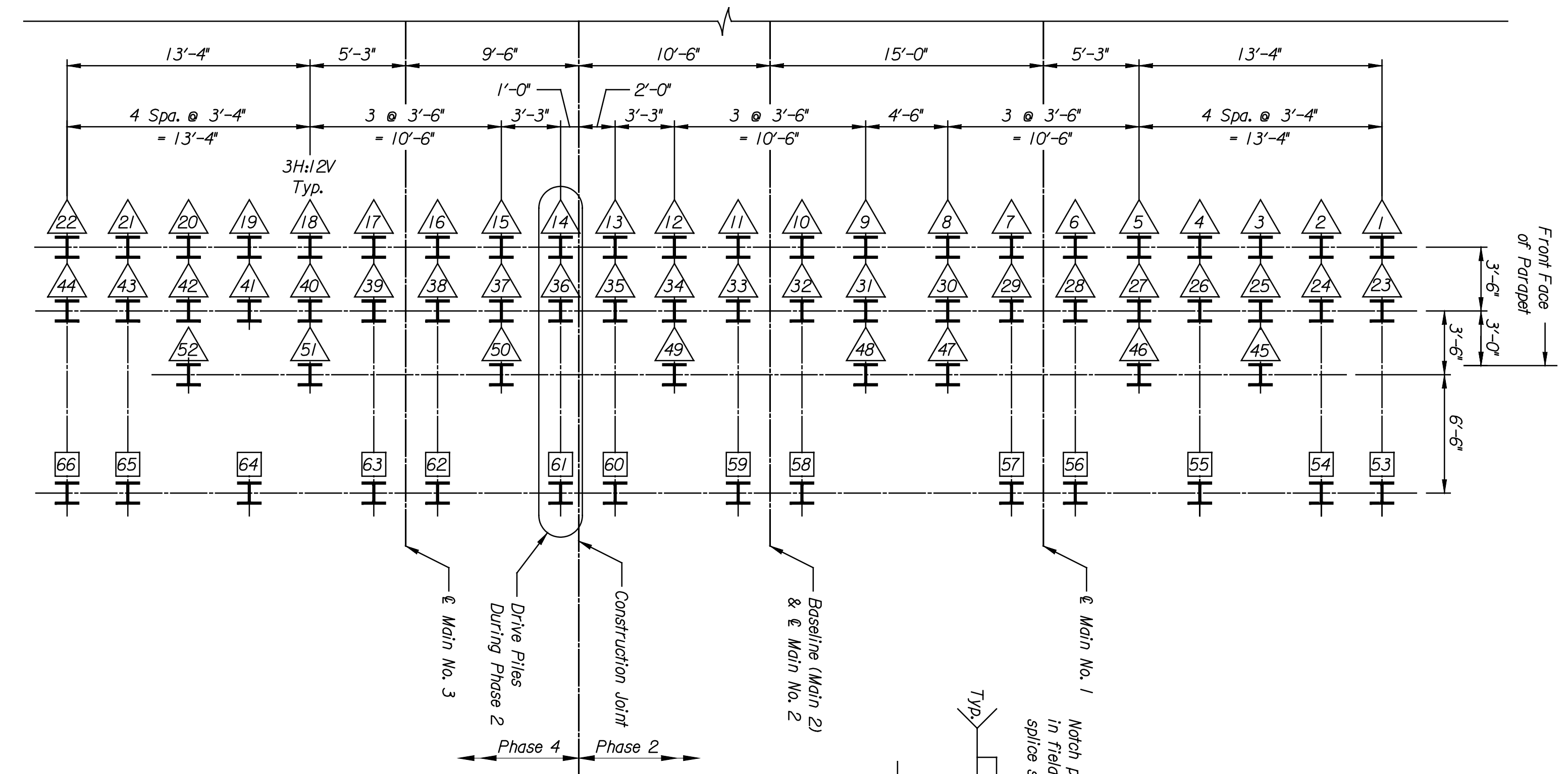
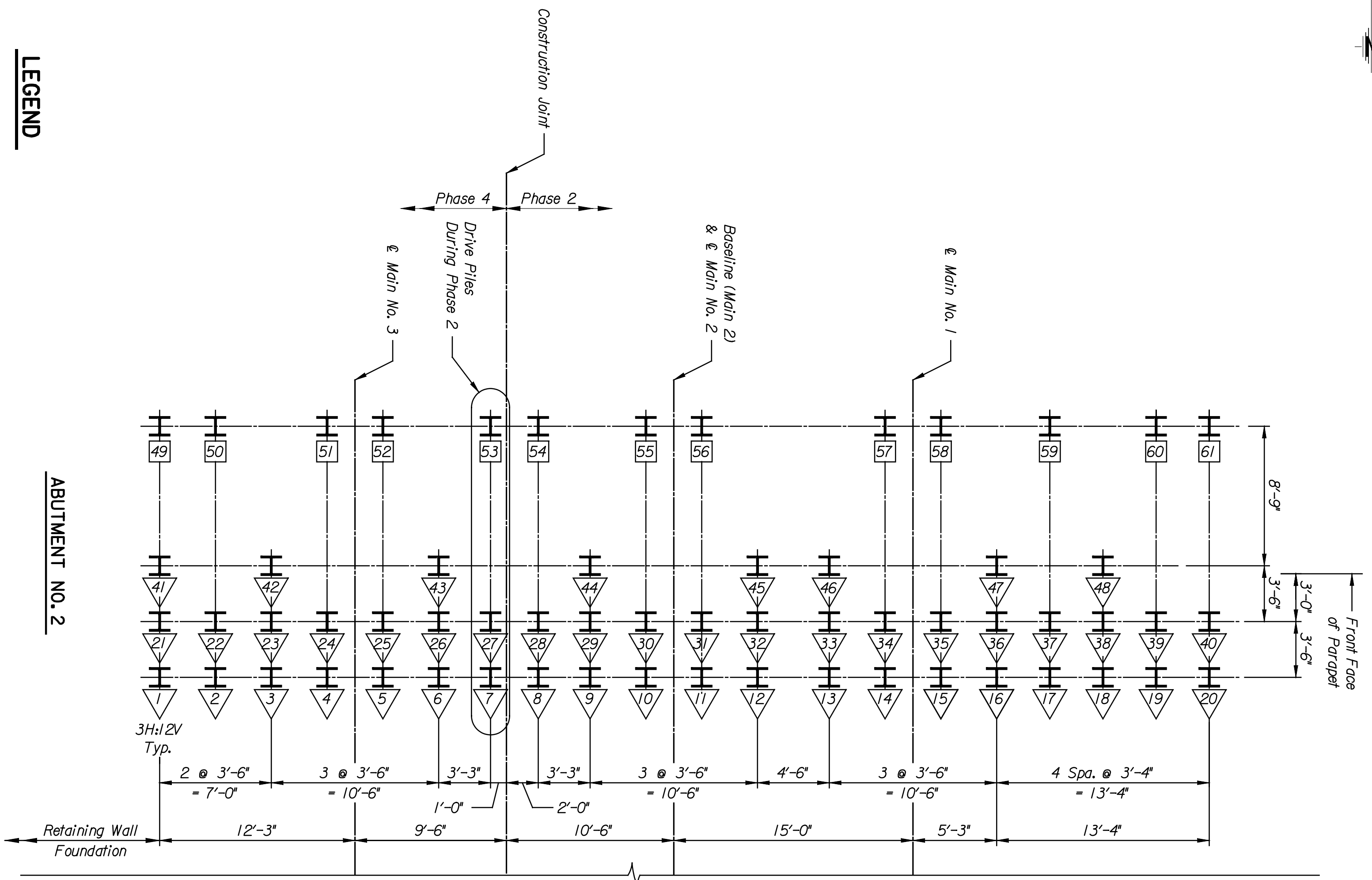


|  |    |      |
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|  | BY | DATE |
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**PNTE**  
 ARCHITECTS ENGINEERS PLANNERS



This sheet designed by:



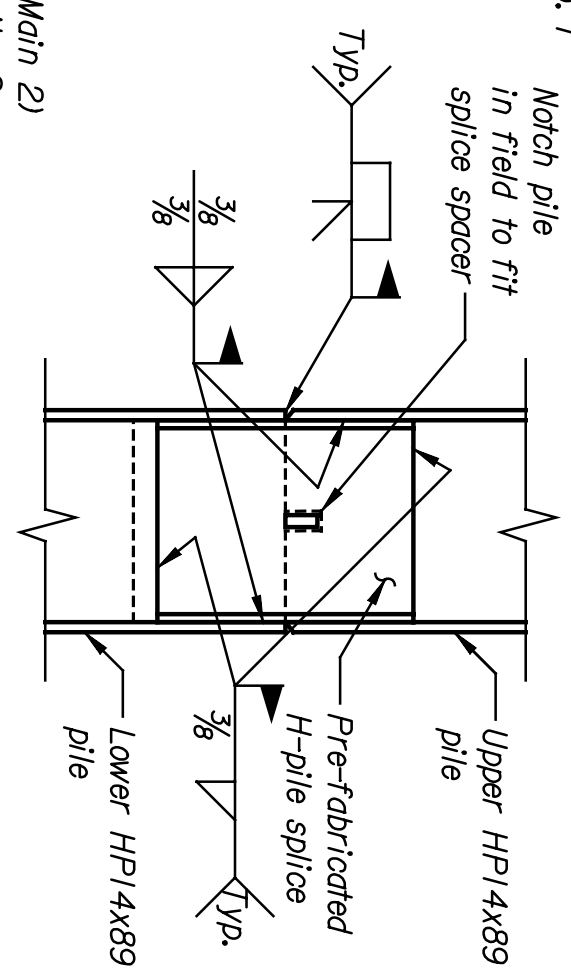
**ABUTMENT NO. 2 PILE DATA**

| PILE NO.     | PILE TYPE | BOTTOM OF FOOTING (FT.) | PILE CUT-OFF ELEV. (FT.) | ESTIMATED PILE TIP ELEV. (FT.) | ESTIMATED PILE LENGTH (FT.) | DESIGN PILE BEARING (TONS/PILE) |
|--------------|-----------|-------------------------|--------------------------|--------------------------------|-----------------------------|---------------------------------|
| 1-48         | HP14X89   | 1292.27                 | 1293.80                  | 1216.80                        | 80.00                       | 90                              |
| 49-53, 55-60 | HP14X89   | 1292.27                 | 1293.80                  | 1232.80                        | 61.00                       | 71                              |
| 54, 61       | HP14X89   | 1292.27                 | 1293.80                  | 1216.80                        | 87.00                       | 90                              |

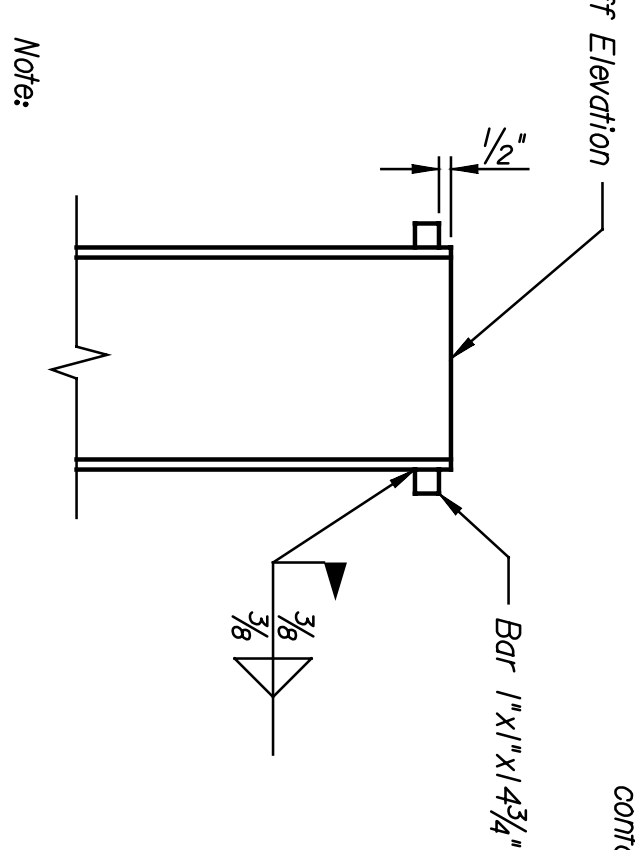
**ABUTMENT NO. 1 PILE DATA**

| PILE NO.     | PILE TYPE | BOTTOM OF FOOTING (FT.) | PILE CUT-OFF ELEV. (FT.) | ESTIMATED PILE TIP ELEV. (FT.) | ESTIMATED PILE LENGTH (FT.) | DESIGN PILE BEARING (TONS/PILE) |
|--------------|-----------|-------------------------|--------------------------|--------------------------------|-----------------------------|---------------------------------|
| 1-52         | HP14X89   | 1292.08                 | 1293.60                  | 1208.60                        | 88.00                       | 96                              |
| 54-59, 61-66 | HP14X89   | 1292.08                 | 1293.60                  | 1241.60                        | 52.00                       | 50                              |
| 53, 60       | HP14X89   | 1292.08                 | 1293.60                  | 1208.60                        | 95.00                       | 96                              |

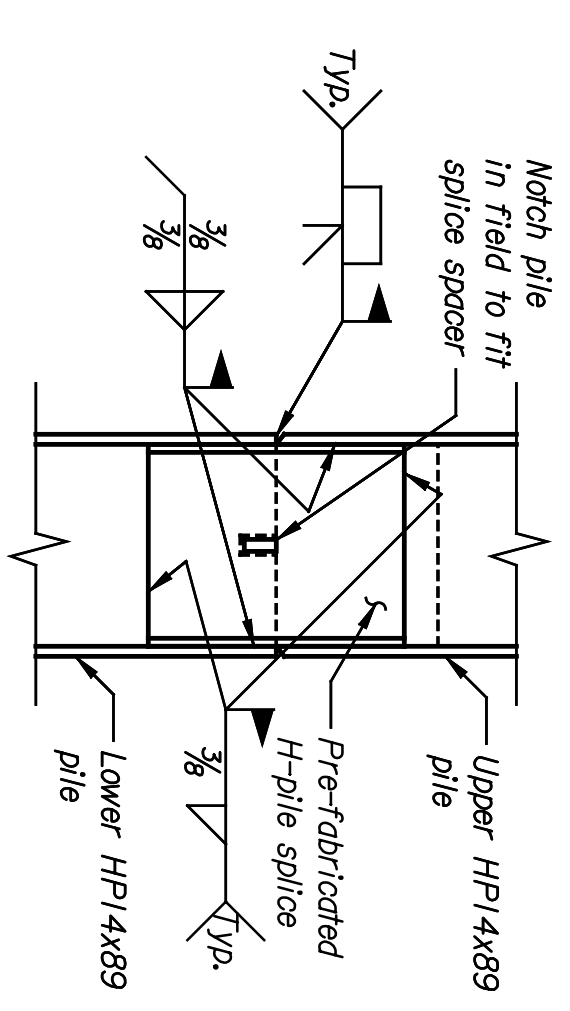
**PILE SPlice DETAIL**



**UPLIFT ANCHOR DETAIL**



**ALTERNATE PILE SPlice DETAIL**



|        |             |      |           |              |
|--------|-------------|------|-----------|--------------|
| STATE  | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 472-84071   | 2005 | B5.4      |              |

**NOTES:**  
 Steel for piles shall conform to ASTM A572, Grade 50.  
 Steel for H-pile splices shall conform to ASTM A572, Grade 50.  
 Pile spacing is shown at the bottom of the footing.  
 Pile lengths shown on the plans are estimated pile lengths for bidding purposes. Actual pile order lengths will be provided following completion of Dynamic Pile Analysis.  
 Piles shall be driven to penetrate the Wellington Shale Formation. Drive all piles to the minimum tip elevation and driving criteria determined from the Dynamic Pile Analysis performed on the test piles as outlined in the specifications. Final tip elevations will be established by the Engineer, based on meeting the driving criteria.  
 Driving shall stop when, in the opinion of the Engineer, additional driving may damage the pile. At any locations where problems are experienced, pile damage is suspected or apparent refusal occurs significantly above the minimum tip elevation, the Engineer may request that additional Dynamic Pile Analysis be performed.  
 Test piles shall be driven as the first piles in the footing and shall be 10'-0" longer than indicated by the estimated pile tip elevation.  
 Test piles shall remain in place and be used as production piles.  
 Test Piles for Abutment No. 1 are: 53 and 60.  
 Test Piles for Abutment No. 2 are: 54 and 61.  
 Install pre-fabricated H-pile splices in accordance with the manufacturer's recommendations and specifications.  
 A vibration monitoring program shall be required in accordance with the specifications during pile driving and other construction activities.  
 Excavations may encounter contaminated groundwater and/or soils. Federal, State and City of Wichita requirements for handling contaminated materials shall be followed.

**CITY OF WICHITA**

WICHITA CENTRAL CORRIDOR  
 2ND STREET  
 FOUNDATION LAYOUT

| NO. | DATE | REVISIONS | BY | APP'D. |
|-----|------|-----------|----|--------|
| 3   |      |           |    |        |
| 2   |      |           |    |        |
| 1   |      |           |    |        |

|           |        |          |          |            |        |        |
|-----------|--------|----------|----------|------------|--------|--------|
| SHEET NO. | OF     | SCALE    | AS NOTED | APP'D.     | TRACED | D.U.I. |
| DESIGNED  | E.K.D. | DETAILED | D.U.J.   | QUANTITIES | D.U.H. |        |
| DESIGN    | G.K.   | DETAIL   | G.K.     | EDU        | FRIDGE | G.K.   |
|           | D.W.H. |          |          |            |        | D.W.H. |