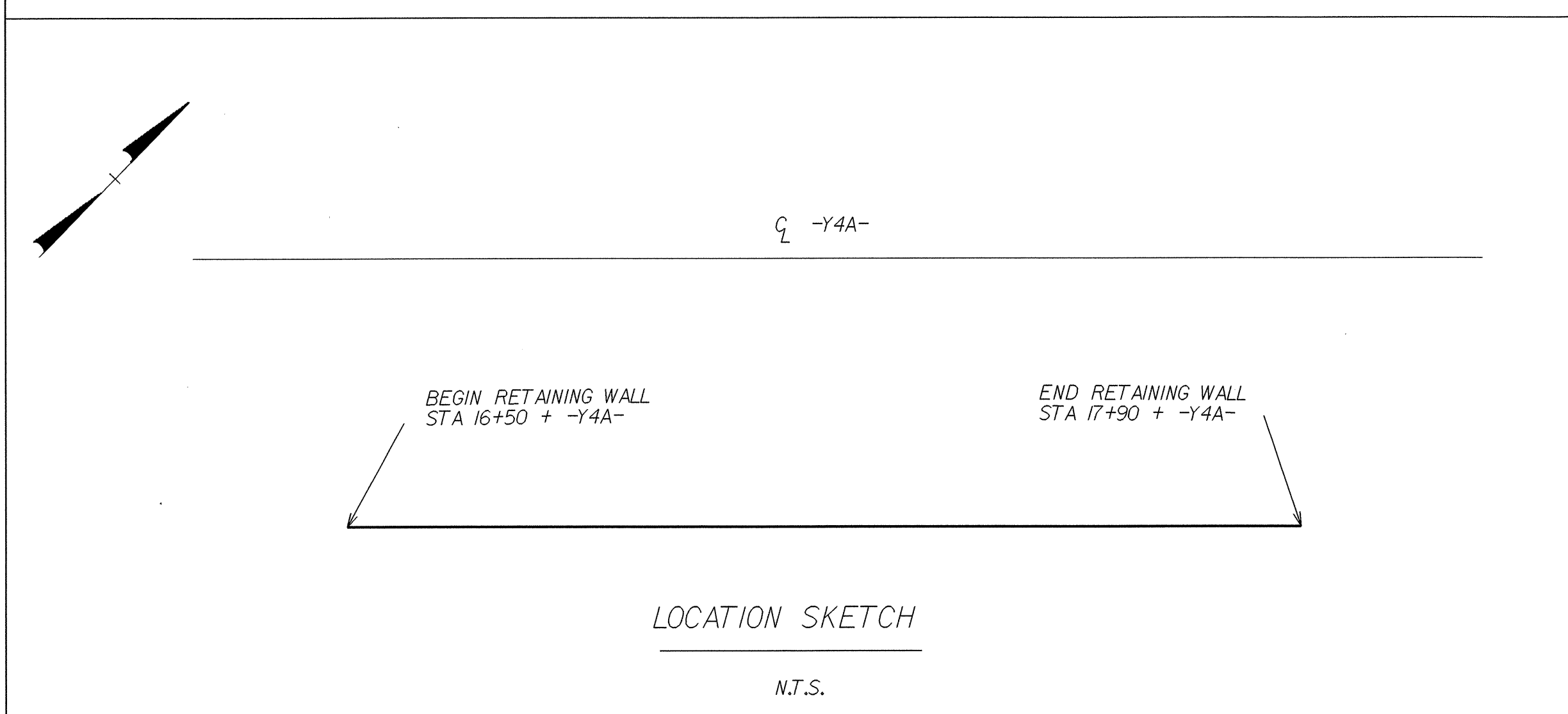
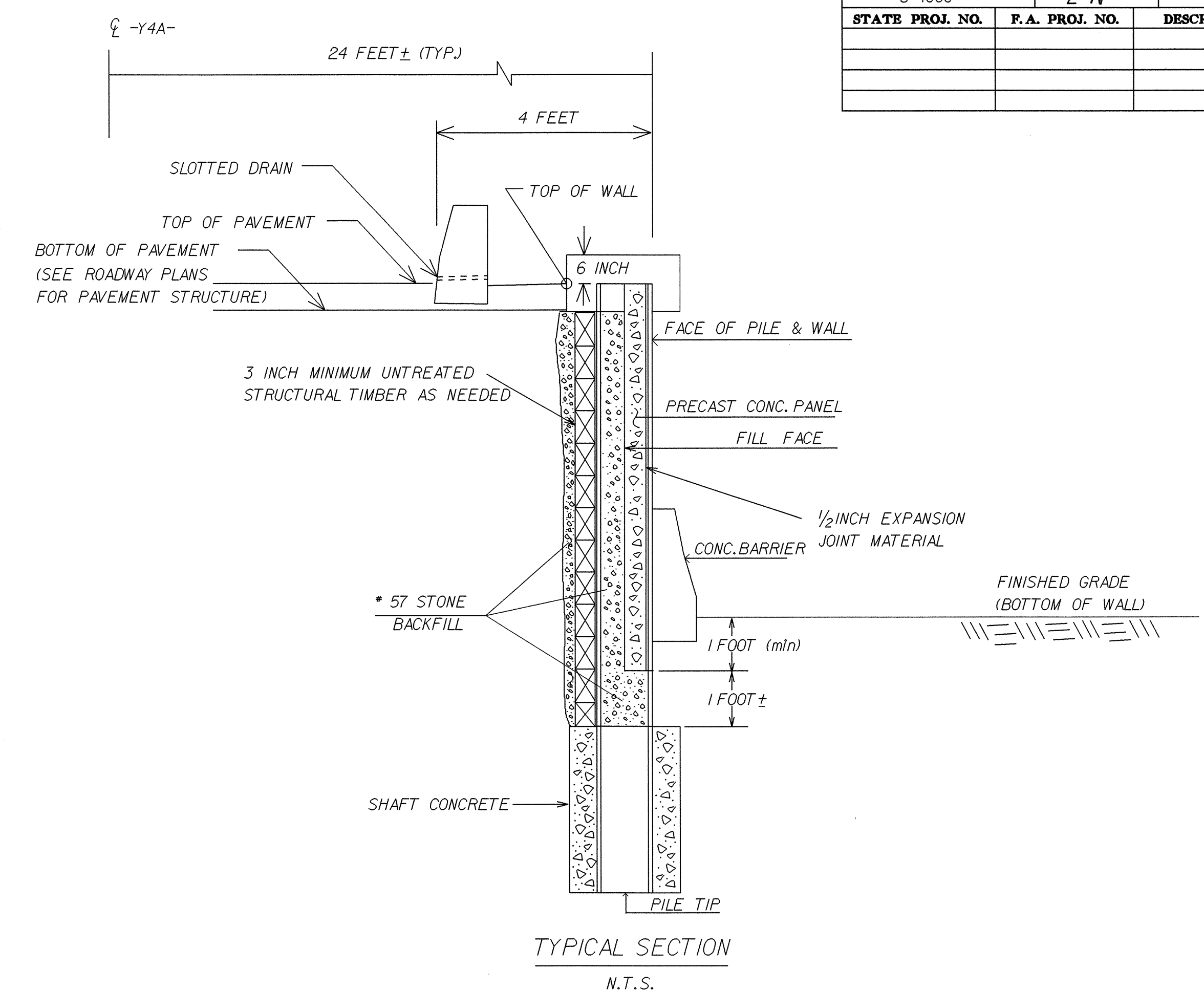
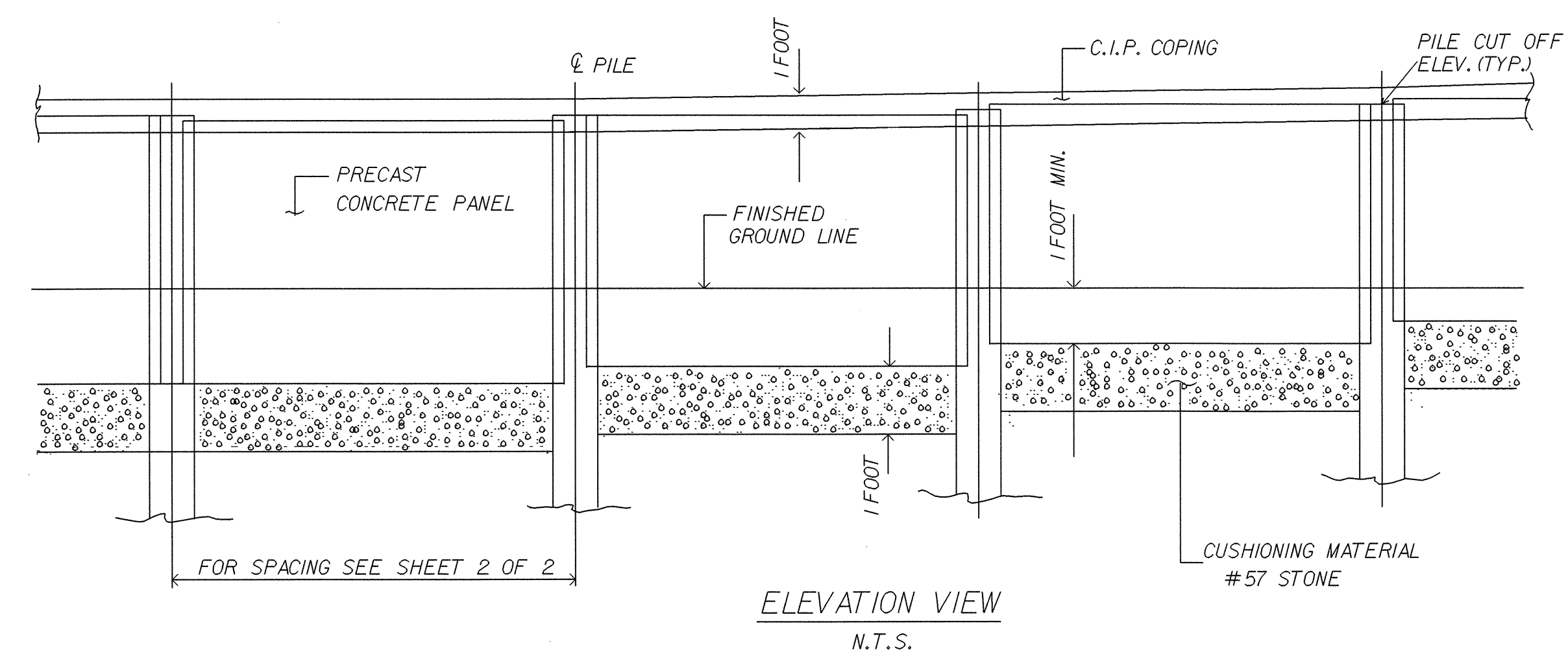
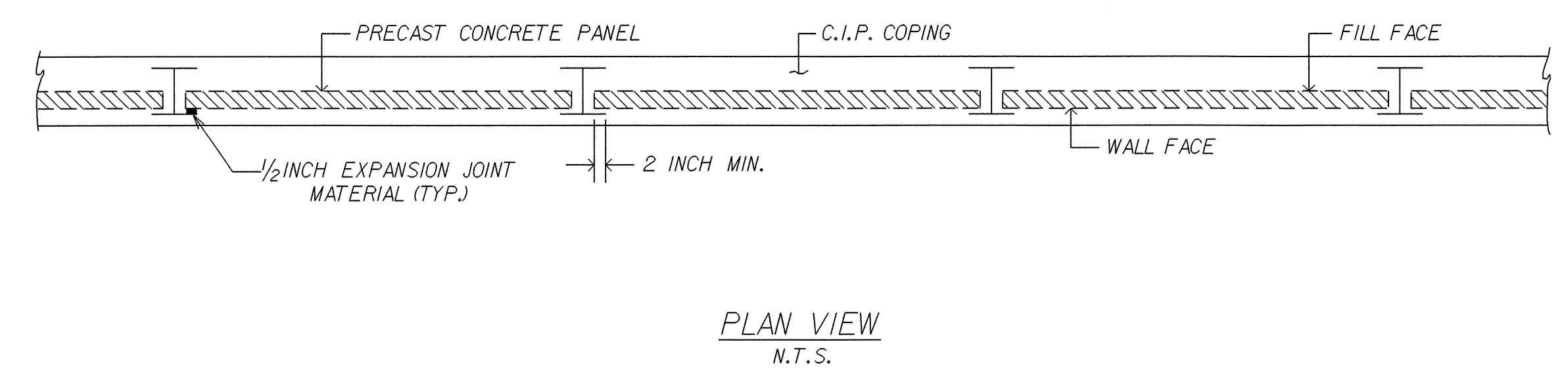


PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-4008	2-N	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION



NOTES:

- PILES SHALL BE INSTALLED TO THE CUT OFF ELEVATIONS AND TIP ELEVATION SHOWN ON THE PLANS.
- USE ASTM GRADE 36 OR BETTER STEEL PILES WITH THE ADDITION OF 0.2% MINIMUM COPPER.
- SPlicing OF PILES IS ONLY ALLOWED IN THE PORTION OF THE PILE PERMANENTLY BELOW GROUND.
- THE TOP OF THE INSTALLED PILES SHALL BE WITHIN 2 INCHES OF THEIR PLAN LOCATION IN ANY DIRECTION.
- CONCRETE PANELS SHALL HAVE A MINIMUM BEARING DISTANCE OF 2 INCHES ON THE PILE FLANGE, 1/2 INCH THICK EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN THE CONCRETE PANELS AND PILE FLANGES FOR THE WIDTH OF THE BEARING SURFACE.
- THE EXPOSED FACE OF THE CONCRETE PANELS SHALL HAVE A VERTICAL BROOMED FINISH.
- CONCRETE PANELS SHALL BE HELD SECURELY AGAINST PILES UNTIL BACKFILL IS PLACED. BACKFILL SHALL BE BROUGHT UP UNIFORMLY.
- BACKFILL MATERIAL, BOTH CUSHIONING MATERIAL AND BACKFILL BEHIND PANELS, SHALL BE COMPACTED AS REQUIRED BY THE ENGINEER. THE STONE SHALL BE RODDED AND SPREAD IN ORDER TO FILL ALL VOIDS AND INSURE MAXIMUM DENSITY. FLUSHING THE STONE WITH WATER TO AID COMPACTION WILL NOT BE ALLOWED.
- BACKFILLING SHALL BE COMPLETED PRIOR TO FORMING THE COPING.
- TOP OF COPING TO BE ADJUSTED BY ENGINEER TO GIVE A UNIFORM APPEARANCE.
- CONSTRUCTION JOINTS IN COPING ARE PERMITTED AT 50 FOOT CENTERS. EXPANSION JOINTS ARE NOT PERMITTED.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF DRAINAGE STRUCTURES AND UTILITIES PRIOR TO INSTALLING PILES. THE LAYOUT OF THE WALL MAY NEED TO BE ADJUSTED TO AVOID UNANTICIPATED INTERFERENCE.
- CONSTRUCTION SEQUENCE:
  - DRILL 24 INCH DIAMETER SHAFTS FROM NATURAL GROUND
  - INSTALL PILES
  - BACKFILL WITH CONCRETE TO THE TOP OF SHAFT ELEVATIONS (PILE CUTOFF MINUS PANEL HEIGHT AND 1 FOOT OF CUSHIONING MATERIAL) BEFORE EXCAVATING TO INSTALL PANELS.
- IF NECESSARY, TAKE SPECIAL MEASURES TO ENSURE THE STABILITY OF THE SHAFT, SUCH AS INSTALLING TEMPORARY CASINGS PRIOR TO DRILLING, INSTALLING THE PILE AND PLACING CONCRETE IMMEDIATELY AFTER A SHAFT IS EXCAVATED, INSTALLING WELL POINTS, OR OTHER MEASURES. IF CAVING OCCURS, HALT THE SHAFT EXCAVATION OPERATION UNTIL SPECIAL MEASURES ARE IMPLEMENTED.
- PILE/PANEL WALL MUST BE BUILT BEFORE PLACING ANY FILL MATERIAL BEHIND THE WALL.
- IF ROCK IS ENCOUNTERED DURING DRILLING OR PRE-AUGURING AS DETERMINED BY THE ENGINEER, THE PILE TIP ELEVATION MAY BE RAISED IF A ROCK SOCKET AT LEAST 6 FEET IN LENGTH IS MAINTAINED. SEE BORING AT 16+92 -Y4A-.

PROJECT U-4008  
 ORANGE COUNTY  
 STATION 16+53 to 17+90 -Y4A-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PILE/PANEL WALL

DRAWN BY RSW DATE 5 / 04  
 CHECKED BY JRB DATE 5 / 04

10/26/04  
 09-SEP-2004 10:06  
 T:\Projects\1608-1\1608-1-01\1608-1-01.dwg  
 T:\Projects\1608-1\1608-1-01\1608-1-01.dwg