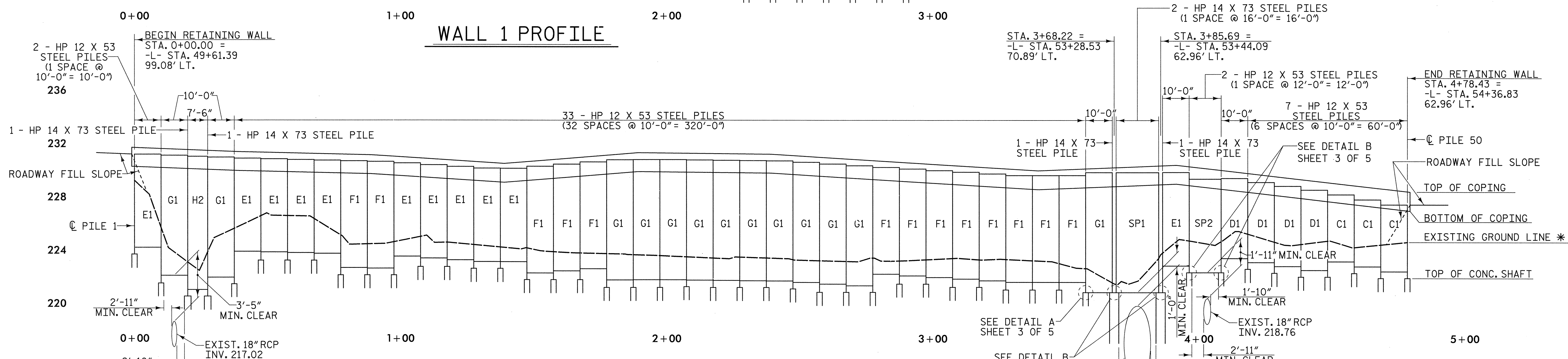
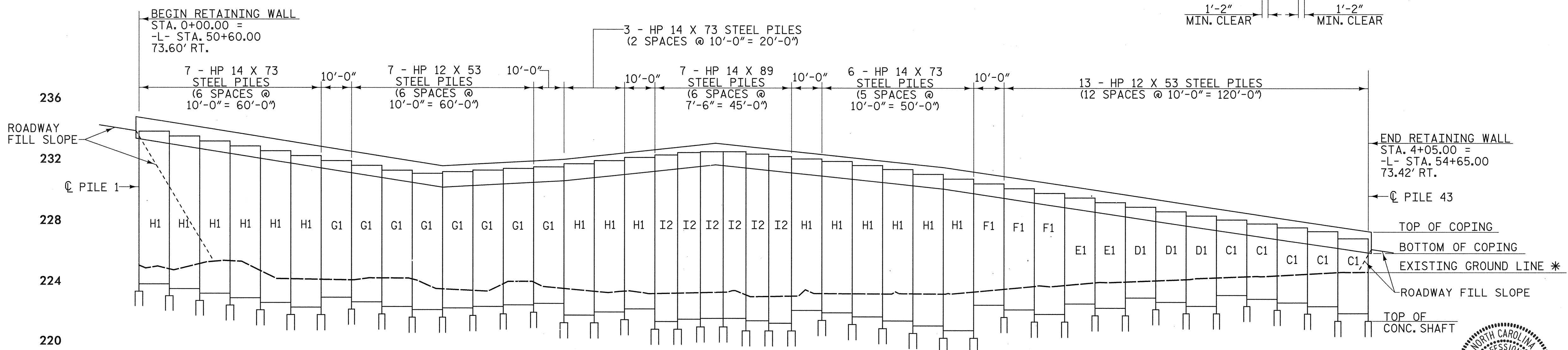


WALL 1 PROFILE



WALL 2 PROFILE



WALL 3 PROFILE

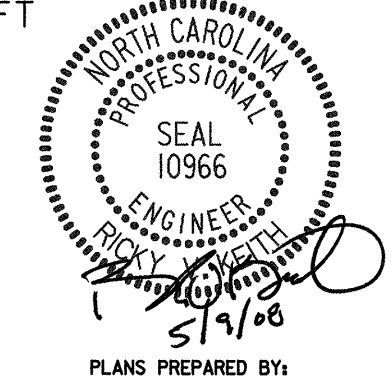
* FINISHED GROUND LINE ELEVATIONS IN FRONT OF THE WALL ARE TO MATCH THE EXISTING GROUND LINE AS CLOSELY AS POSSIBLE.

PROJECT NO. U-4756
CUMBERLAND COUNTY

SHEET 1 OF 5

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**PILE / PANEL
 RETAINING WALL**

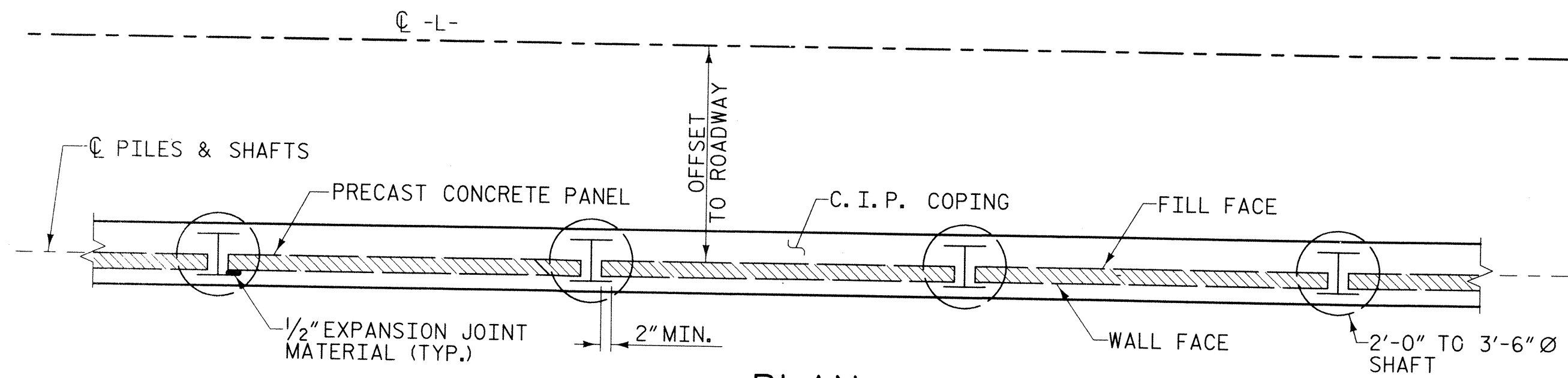


MULKEY
 ENGINEERS & CONSULTANTS
 P.O. Box 33197
 Raleigh, N.C. 27636
 (919) 851-1918 (FAX)
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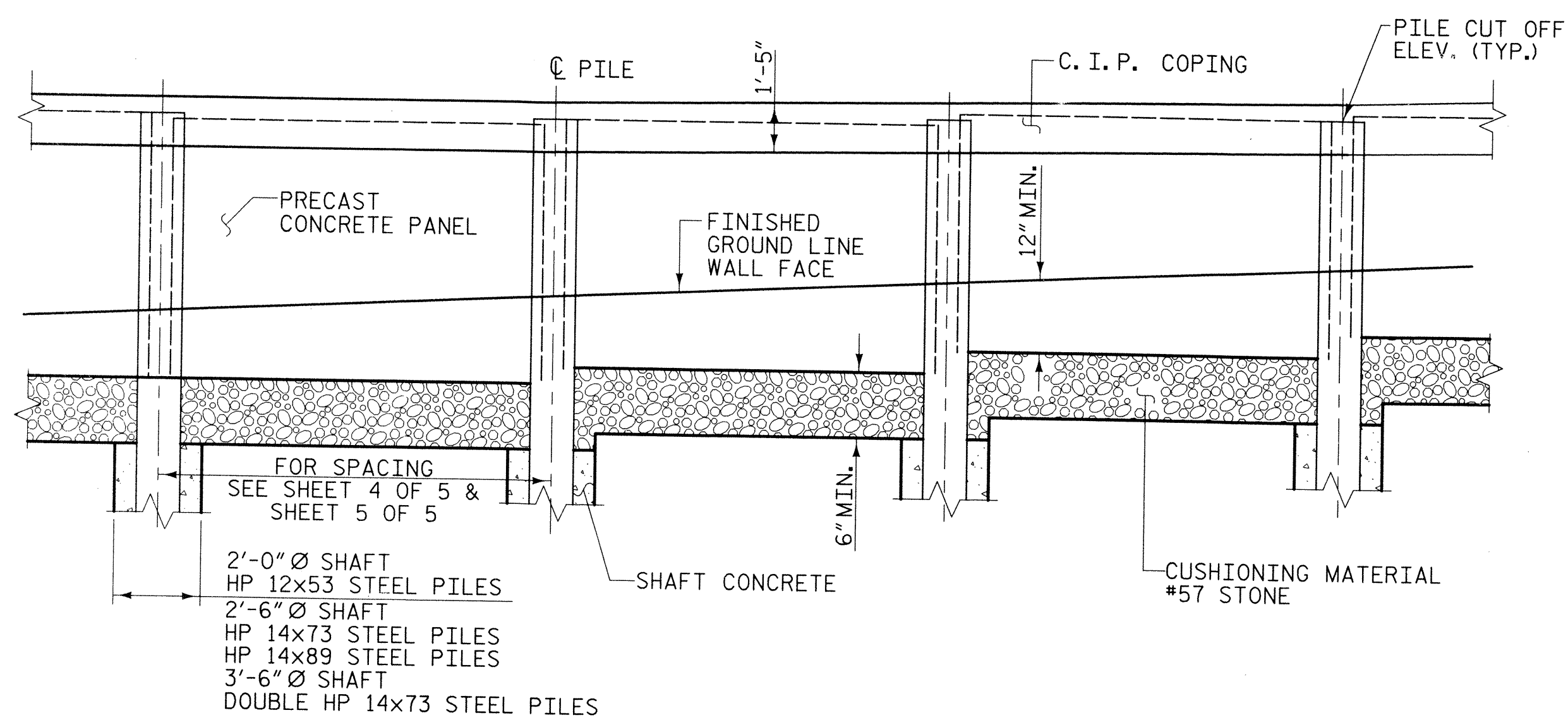
| REVISIONS | | | | SHEET NO. | |
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DRAWN BY: W. B. ALLEN DATE: 3/08
 CHECKED BY: R.V. KEITH DATE: 4/08

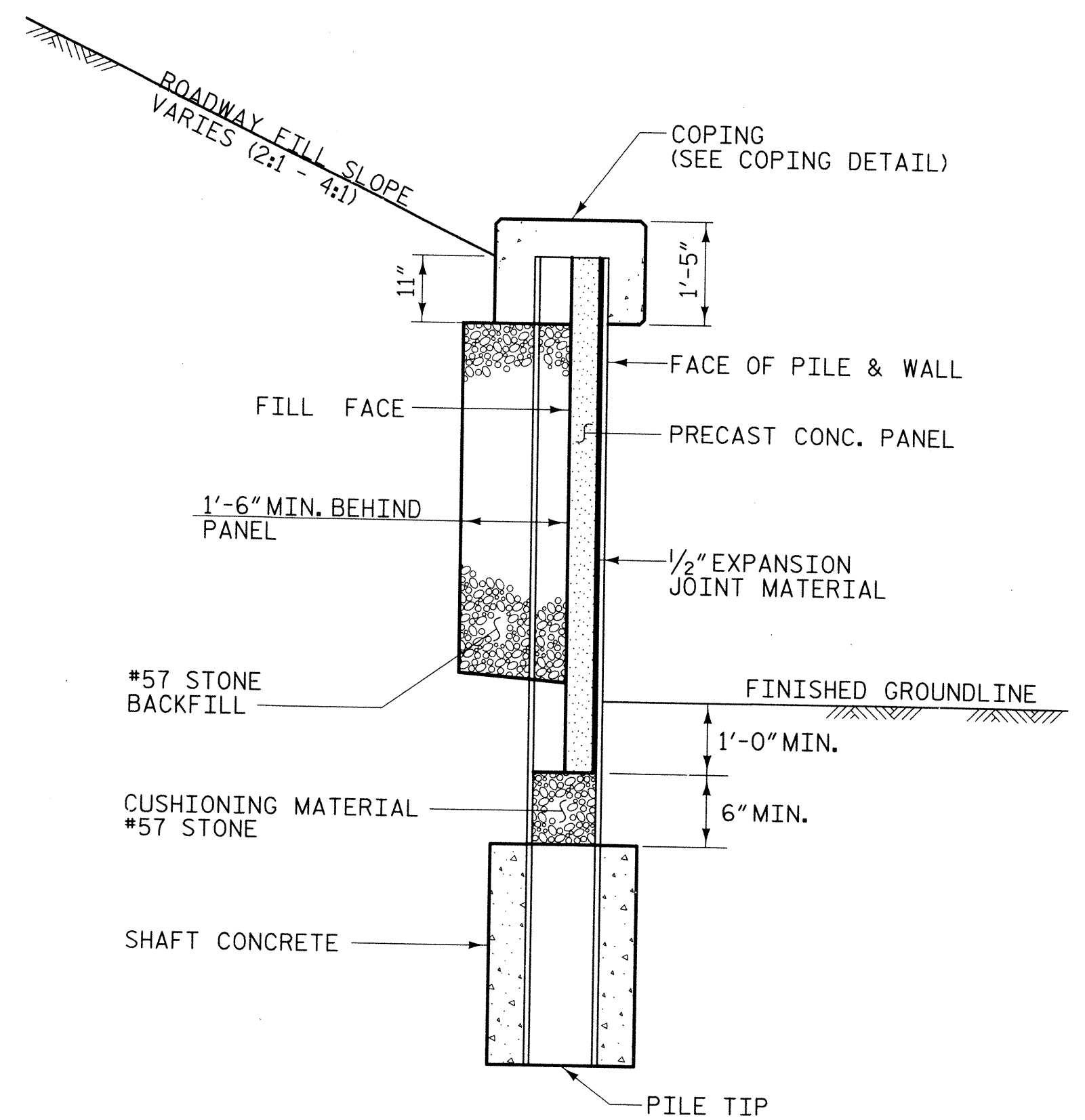
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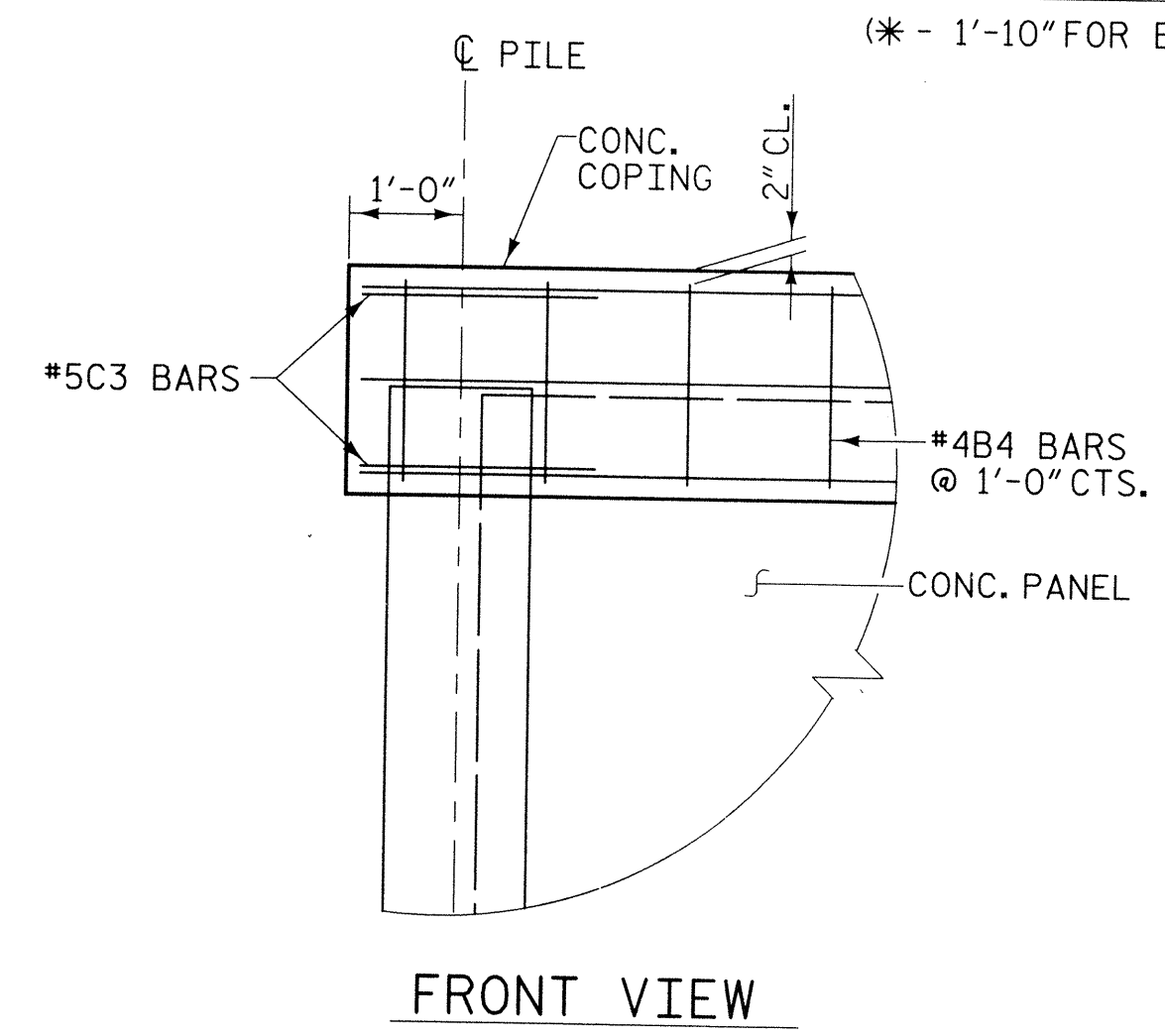
PLAN
N.T.S.



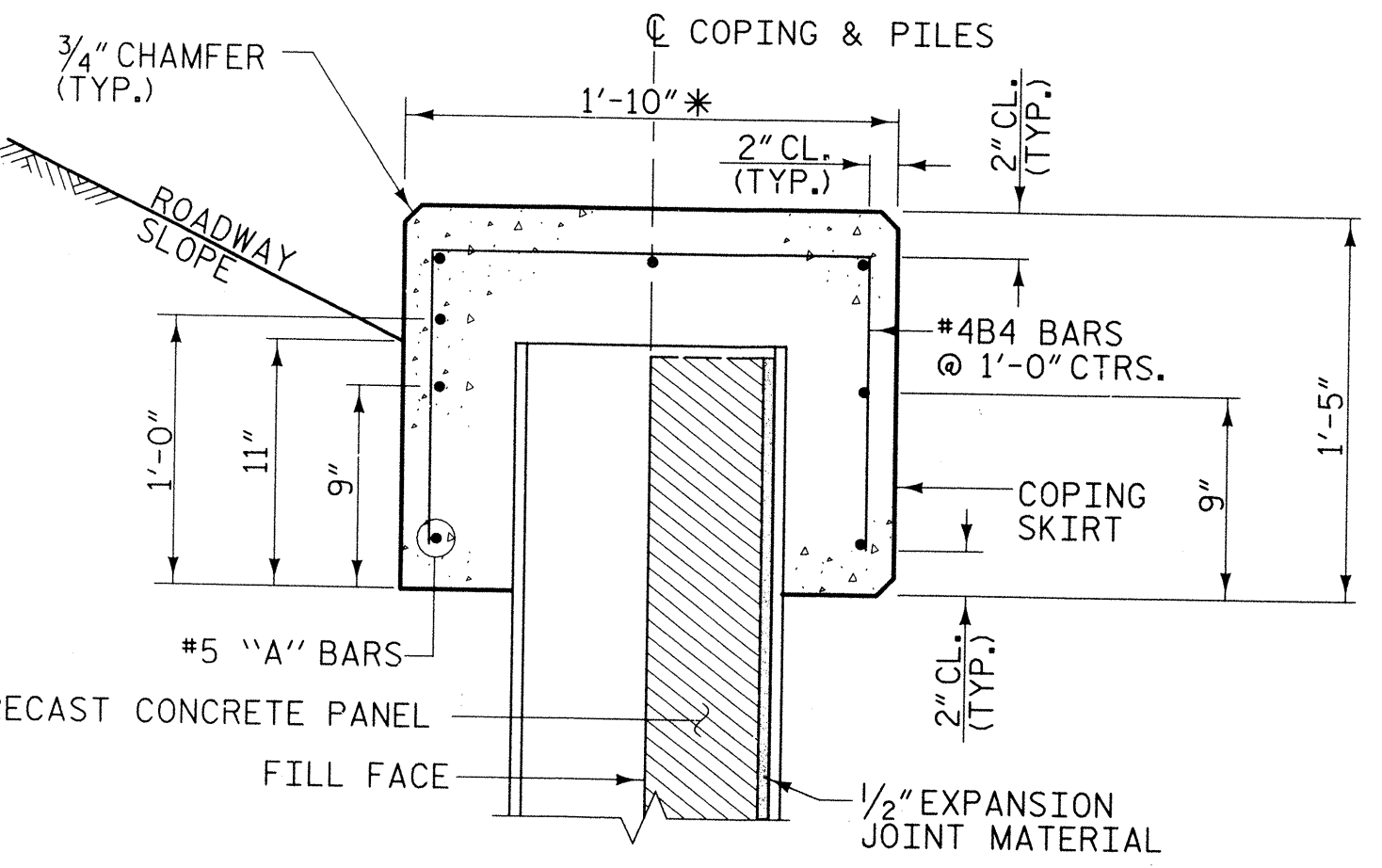
ELEVATION
N.T.S.



TYPICAL SECTION
N.T.S.

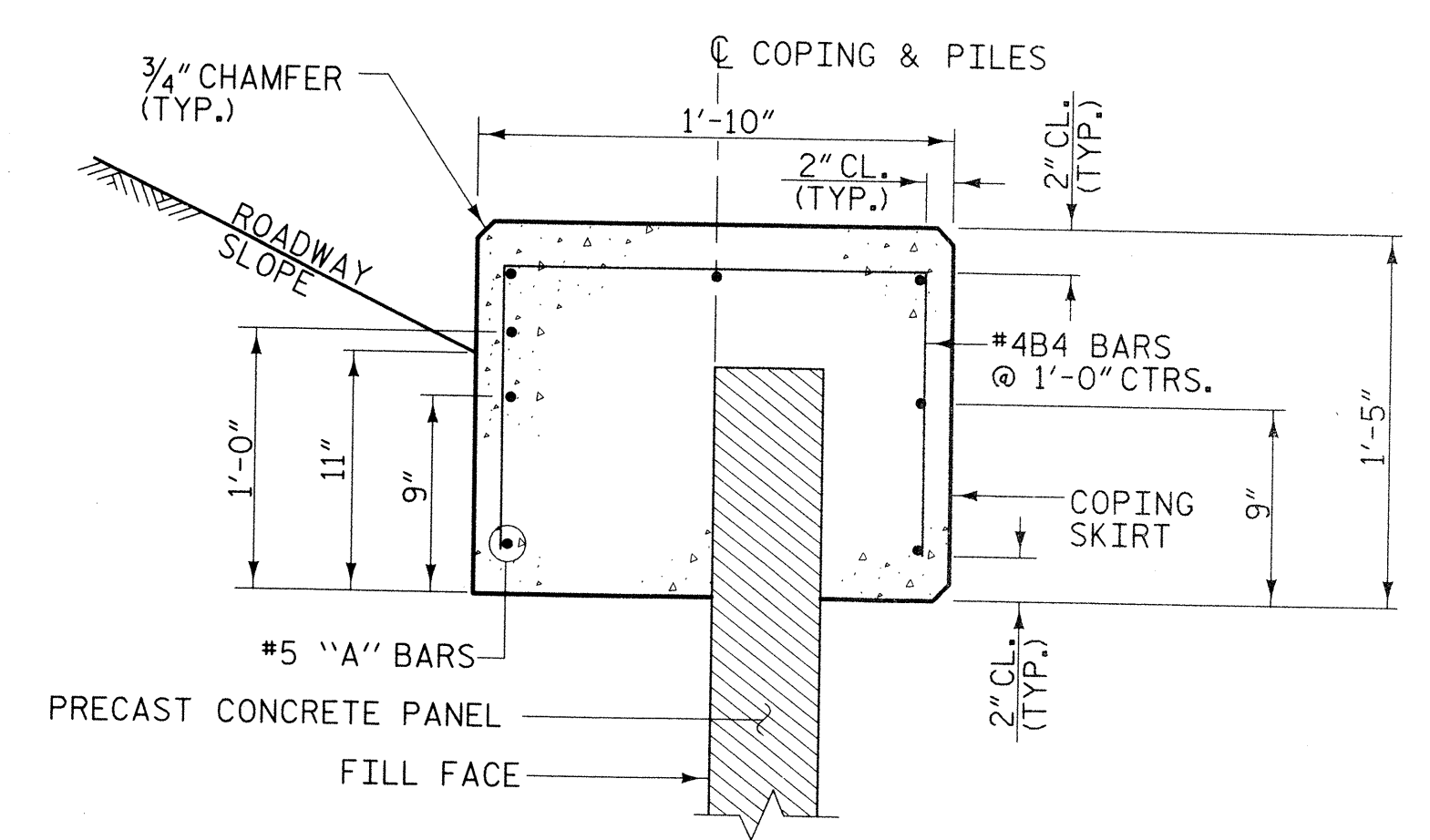


FRONT VIEW



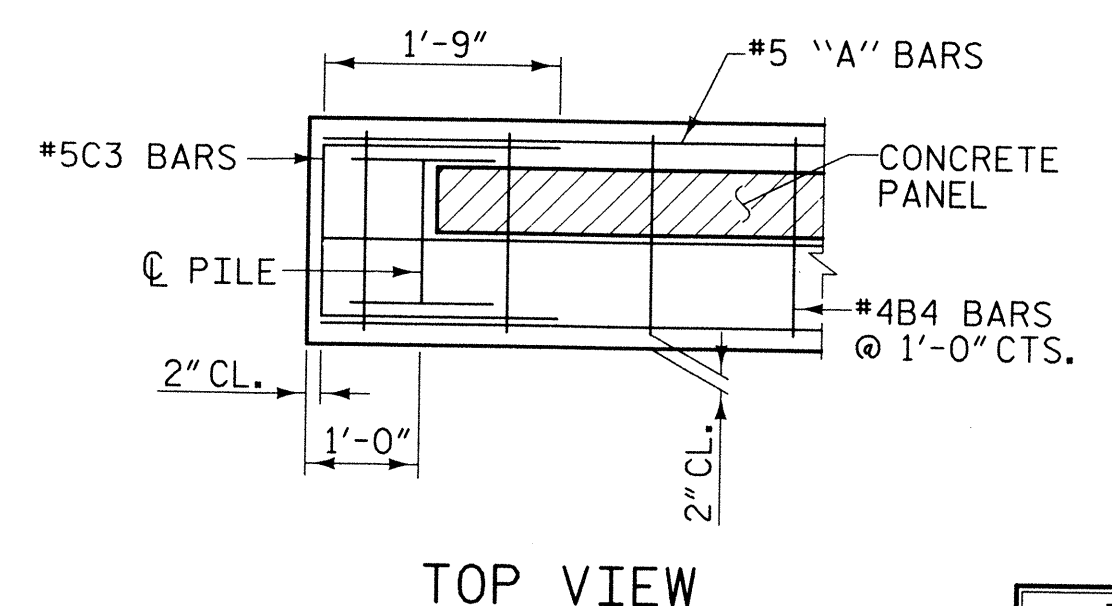
SECTION AT PILES

(* - 1'-10" FOR BOTH HP12X53 AND HP14X73 PILES)



SECTION BETWEEN PILES

FULL COPING DETAIL
N.T.S.



TOP VIEW

END OF COPING DETAIL
N.T.S.

NOTES:

- PILES SHALL BE INSTALLED TO THE CUT OFF ELEVATIONS AND LENGTHS SHOWN ON THE PLANS.
- SPLICING OF PILES IS NOT ALLOWED.
- THE TOP OF THE INSTALLED PILES SHALL BE WITHIN 2 INCHES OF THEIR PLAN LOCATION IN ANY DIRECTION.
- STEEL PILES SHALL BE ASTM A572 GRADE 50 WITH THE ADDITION OF 0.2% MINIMUM COPPER.
- PILES SHALL BE PAINTED BLACK FROM THE TOP OF THE PILE DOWN TO 18" BELOW GRADE. SEE SPECIAL PROVISIONS.
- 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.
- CONCRETE PANELS SHALL BE HELD SECURELY AGAINST THE PILES UNTIL THE 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.
- THE CONCRETE PANELS SHALL HAVE A DARK GRAY EXPOSED AGGREGATE FACE. SEE SPECIAL PROVISIONS FOR COLOR, TEXTURE AND AGGREGATE REQUIREMENTS.
- TOP OF COPING TO BE ADJUSTED BY ENGINEER TO GIVE A UNIFORM APPEARANCE.
- CONCRETE FOR COPING SHALL BE COLORED TO MATCH THE PRECAST PANELS.
- CONSTRUCTION JOINTS IN COPING ARE PERMITTED AT LOCATIONS WHERE COPING CHANGES SLOPE AND AT 90 FOOT CENTERS. EXPANSION JOINTS ARE NOT PERMITTED.
- THE RESIDENT ENGINEER 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.
- FOR SHAFT EXCAVATION, SEE SPECIAL PROVISIONS.
- IF NECESSARY, SPECIAL MEASURES SHALL BE TAKEN TO INSURE THE STABILITY OF THE SHAFT SUCH AS INSTALLING TEMPORARY CASING PRIOR TO DRILLING, INSTALLING THE PILE AND PLACING CONCRETE IMMEDIATELY AFTER A SHAFT IS EXCAVATED BEFORE CAVING OCCURS. INSTALLING WELL POINTS OR OTHER MEASURES, IF CAVING OCCURS. THE SHAFT EXCAVATION OPERATION SHALL BE HALTED UNTIL SPECIAL MEASURES ARE IMPLEMENTED.
- PILE/PANEL WALL MUST BE BUILT BEFORE PLACING ANY FILL MATERIAL BEHIND THE WALL.
- DO NOT BACKFILL BEHIND THE WALL UNTIL THE SHAFT CONCRETE DEVELOPS A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. PLACE BACKFILL SO AS NOT TO CAUSE LATERAL FORCES AGAINST THE WALL BY HEAVY EQUIPMENT OR FROM EARTH MASSES TRANSMITTING PRESSURES CAUSED BY EARTH MOVING EQUIPMENT. PLACE BACKFILL IMMEDIATELY ADJACENT TO THE WALL BY HAND OPERATED EQUIPMENT. DO NOT OPERATE HEAVY EARTH MOVING EQUIPMENT WITHIN 10 FEET OF THE WALL IN BACKFILLING OPERATIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- CONCRETE FOR PANELS SHALL BE CLASS AA. CONCRETE FOR THE SHAFTS AND FOR THE COPING SHALL BE CLASS A.
- THE CONTRACTOR SHALL TAKE CARE TO MINIMIZE THE EXCAVATION NECESSARY TO PLACE THE CUSHIONING MATERIAL AND PANELS. FINISHED GROUNDLINE ELEVATIONS IN FRONT OF THE WALL ARE TO MATCH THE EXISTING GROUNDLINE AS CLOSELY AS POSSIBLE.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING ABOVE EXISTING PIPES LOCATED BENEATH THE PROPOSED WALL TO PREVENT DAMAGE TO THE EXISTING DRAINAGE STRUCTURES.

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DRAWN BY : W. B. ALLEN DATE : 3/08
CHECKED BY : R.V. KEITH DATE : 4/08

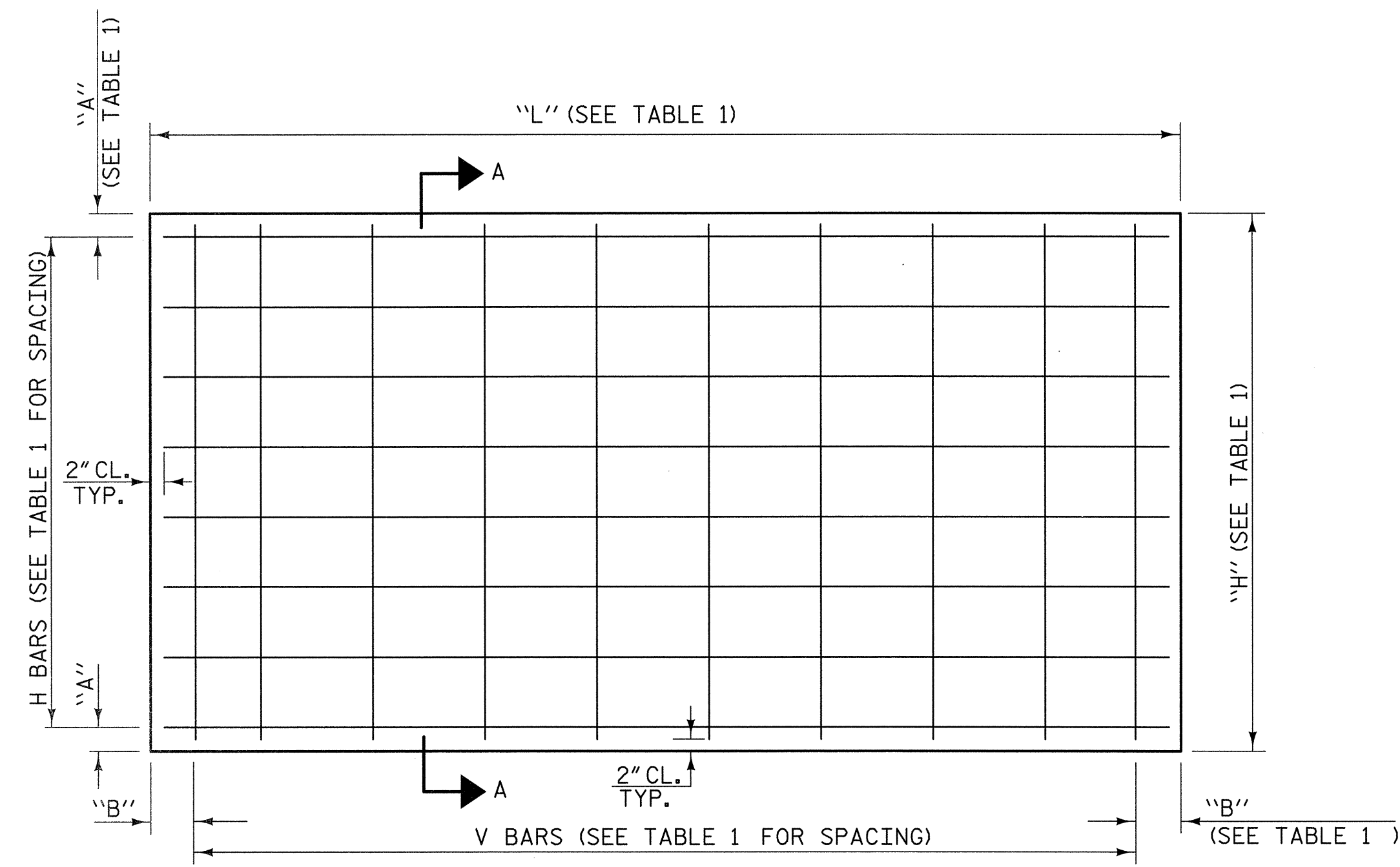
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
10966
MULKEY
1/28/08

PLANS PREPARED BY:
MULKEY
ENGINEERS & CONSULTANTS
PO BOX 33187
RALEIGH, NC 27636
(919) 851-1918 FAX
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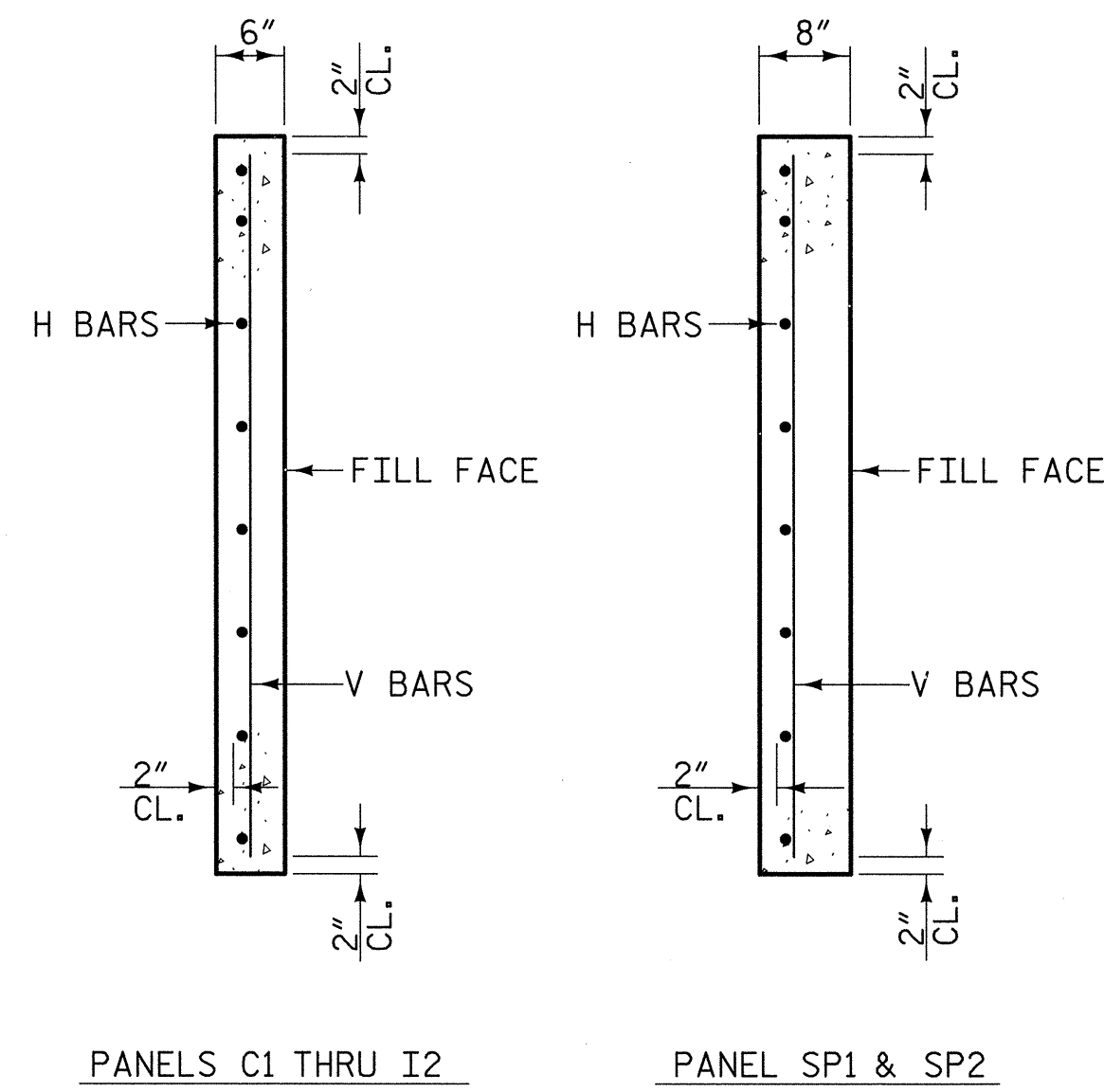
PROJECT NO. U-4756
CUMBERLAND COUNTY

SHEET 2 OF 5

| | | | | | |
|--|-----|-------|-----|-----|---|
| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | | |
| PILE / PANEL RETAINING WALL | | | | | |
| REVISIONS | | | | | |
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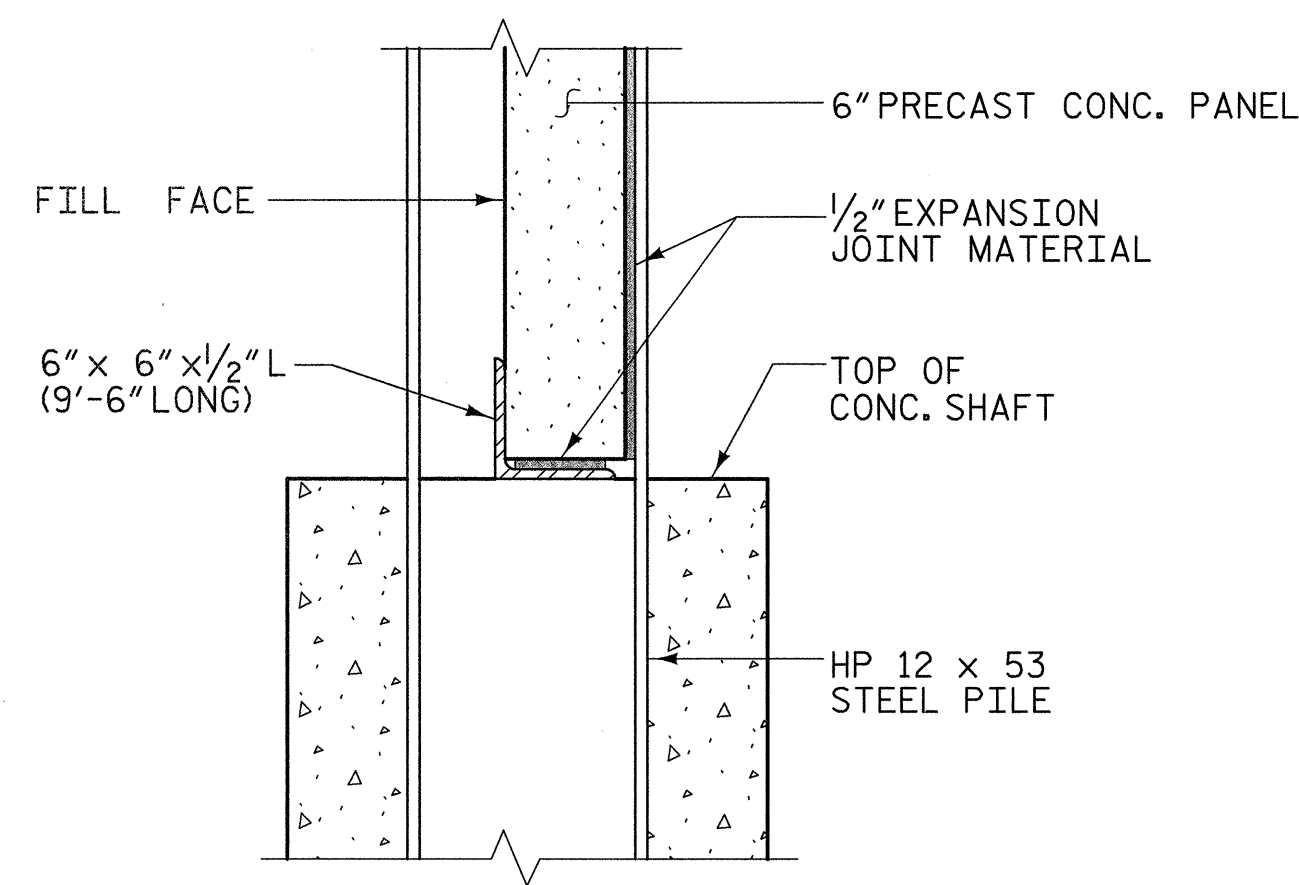


TYPICAL PRECAST PANEL DETAIL
N.T.S.

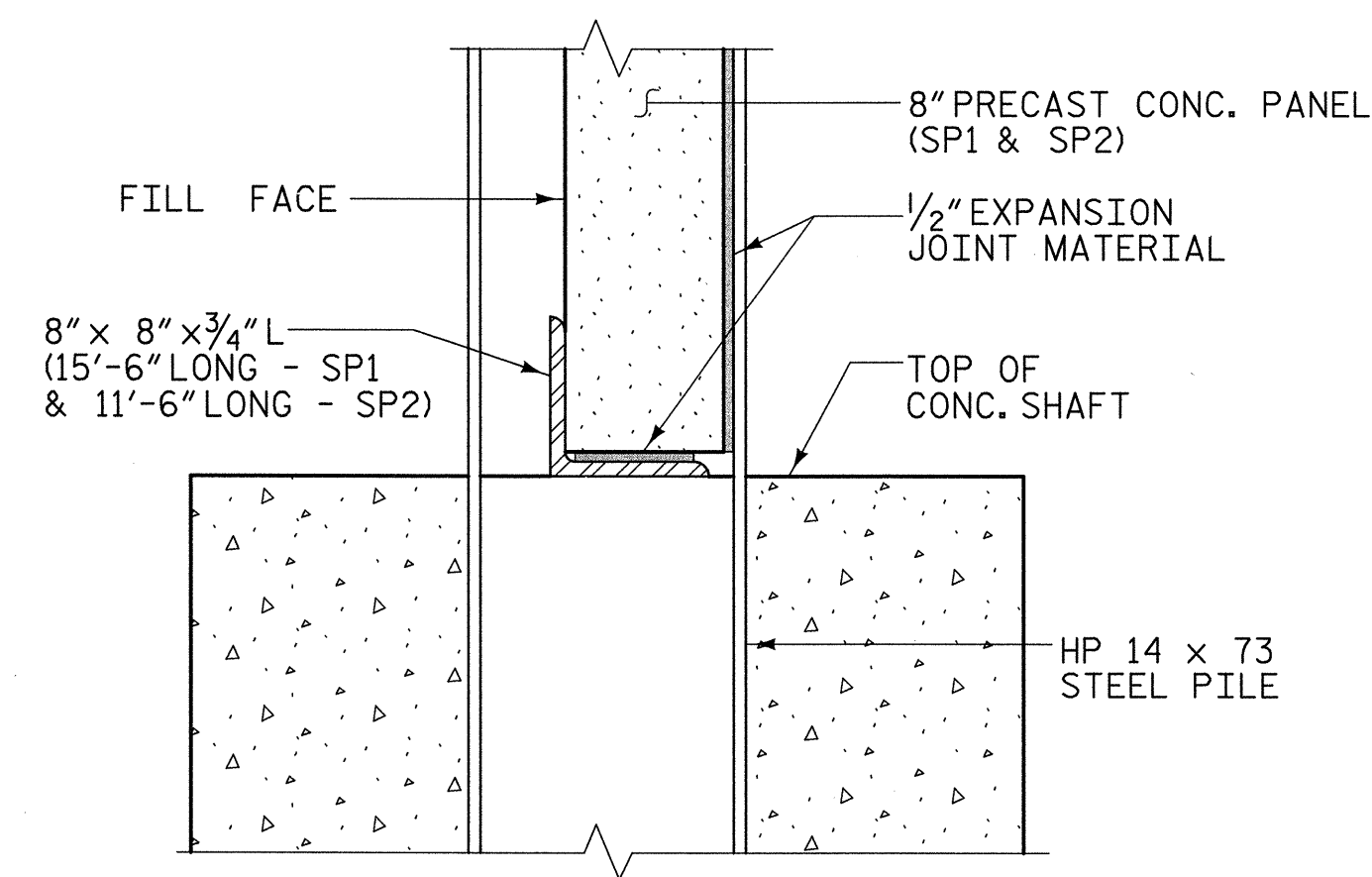


SECTION A-A

| TABLE 1 PRECAST PANELS FOR WALL 1 | | | | | | | | | | |
|--------------------------------------|-----------|--------|--------|---------------|-------------|---------------|-------------|--------|-----|-----------------------------|
| PANEL TYPE | NO. REQ'D | "H" | "L" | BAR TYPES | | | | "A" | "B" | CONC. CUBIC YARDS PER PANEL |
| | | | | HORIZONTAL | | VERTICAL | | | | |
| | | | | NO. PER PANEL | SPACING C-C | NO. PER PANEL | SPACING C-C | | | |
| C1 | 10 | 5'-0" | 9'-6" | 10-H1 | 6" | 19-V3 | 6" | 3" | 3" | 0.88 |
| D1 | 11 | 6'-0" | 9'-6" | 17-H1 | 4" | 19-V4 | 6" | 4" | 3" | 1.06 |
| E1 | 8 | 7'-0" | 9'-6" | 20-H1 | 4" | 19-V5 | 6" | 4" | 3" | 1.23 |
| PRECAST PANELS FOR WALL 2 | | | | | | | | | | |
| PANEL TYPE | NO. REQ'D | "H" | "L" | BAR TYPES | | | | "A" | "B" | CONC. CUBIC YARDS PER PANEL |
| | | | | HORIZONTAL | | VERTICAL | | | | |
| | | | | NO. PER PANEL | SPACING C-C | NO. PER PANEL | SPACING C-C | | | |
| C1 | 3 | 5'-0" | 9'-6" | 10-H1 | 6" | 19-V3 | 6" | 3" | 3" | 0.88 |
| D1 | 4 | 6'-0" | 9'-6" | 17-H1 | 4" | 19-V4 | 6" | 4" | 3" | 1.06 |
| E1 | 11 | 7'-0" | 9'-6" | 20-H1 | 4" | 19-V5 | 6" | 4" | 3" | 1.23 |
| F1 | 13 | 8'-0" | 9'-6" | 19-H1A | 5" | 19-V6 | 6" | 3" | 3" | 1.41 |
| G1 | 13 | 9'-0" | 9'-6" | 21-H1A | 5" | 19-V7 | 6" | 4" | 3" | 1.58 |
| H2 | 1 | 10'-0" | 7'-0" | 24-H2 | 5" | 14-V8 | 6" | 2 1/2" | 3" | 1.30 |
| SP1 | 1 | 9'-0" | 15'-6" | 21-H3 | 5" | 31-V10 | 6" | 4" | 3" | 3.44 |
| SP2 | 1 | 7'-0" | 11'-6" | 16-H4 | 5" | 23-V5 | 6" | 4 1/2" | 3" | 1.99 |
| PRECAST PANELS FOR WALL 3 | | | | | | | | | | |
| PANEL TYPE | NO. REQ'D | "H" | "L" | BAR TYPES | | | | "A" | "B" | CONC. CUBIC YARDS PER PANEL |
| | | | | HORIZONTAL | | VERTICAL | | | | |
| | | | | NO. PER PANEL | SPACING C-C | NO. PER PANEL | SPACING C-C | | | |
| C1 | 5 | 5'-0" | 9'-6" | 10-H1 | 6" | 19-V3 | 6" | 3" | 3" | 0.88 |
| D1 | 3 | 6'-0" | 9'-6" | 17-H1 | 4" | 19-V4 | 6" | 4" | 3" | 1.06 |
| E1 | 2 | 7'-0" | 9'-6" | 20-H1 | 4" | 19-V5 | 6" | 4" | 3" | 1.23 |
| F1 | 3 | 8'-0" | 9'-6" | 19-H1A | 5" | 19-V6 | 6" | 3" | 3" | 1.41 |
| G1 | 8 | 9'-0" | 9'-6" | 21-H1A | 5" | 19-V7 | 6" | 4" | 3" | 1.58 |
| H1 | 15 | 10'-0" | 9'-6" | 24-H1A | 5" | 19-V8 | 6" | 2 1/2" | 3" | 1.76 |
| I2 | 6 | 11'-0" | 7'-0" | 26-H2 | 5" | 14-V9 | 6" | 3 1/2" | 3" | 1.42 |

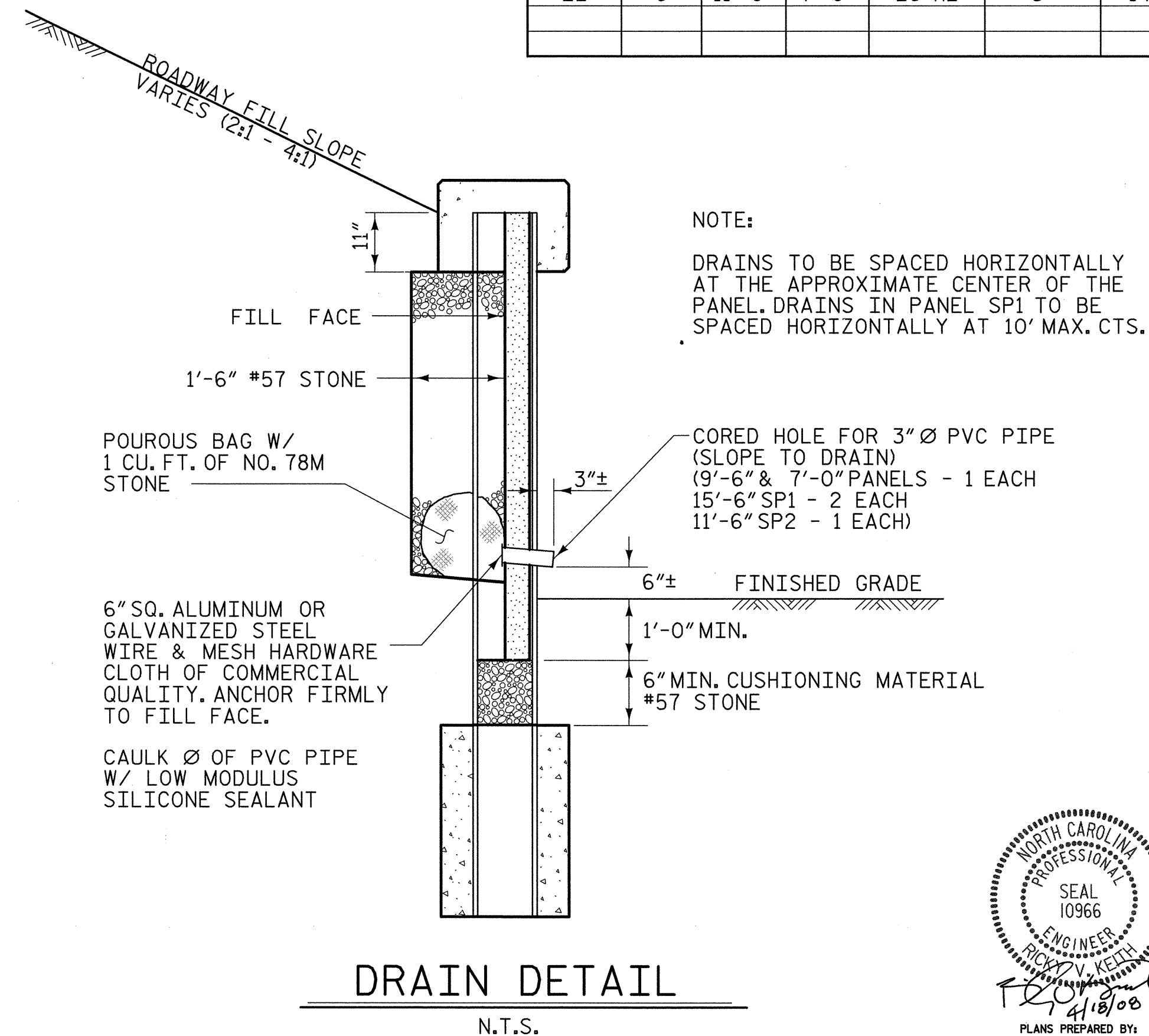


DETAIL A
N.T.S.



DETAIL B
N.T.S.

NOTE:
PLACE ANGLE AS SHOWN IN SECTION ABOVE.
1/2" THICK EXPANSION JOINT MATERIAL TO BE PLACED BETWEEN PRECAST CONC. PANEL AND STEEL ANGLE.
STEEL FOR ANGLE SHALL BE A572 GRADE 50 AND PAINTED IN ACCORDANCE WITH THE PROVISIONS FOR PAINTING STEEL PILES.



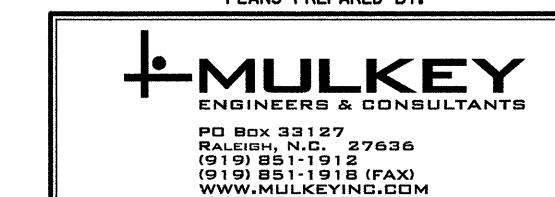
DRAIN DETAIL
N.T.S.

PROJECT NO. U-4756
CUMBERLAND COUNTY

SHEET 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PILE / PANEL
RETAINING WALL



| REVISIONS | | | | SHEET NO. |
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| NO. | BY: | DATE: | NO. | DATE: |
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W-3
TOTAL SHEETS

DRAWN BY: W. B. ALLEN DATE: 3/08
CHECKED BY: R.V. KEITH DATE: 4/08

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WALL 3

BILL OF MATERIALS

PILE ELEVATIONS AND PANEL TYPES

| PRECAST CONCRETE PANELS | | | | | |
|-------------------------|-----|------|------|--------|--------|
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| H1 | 141 | #4 | STR | 9'-2" | 863 |
| H1A | 585 | #5 | STR | 9'-2" | 5593 |
| H2 | 156 | #4 | STR | 6'-8" | 695 |
| V3 | 95 | #4 | STR | 4'-8" | 296 |
| V4 | 57 | #4 | STR | 5'-8" | 216 |
| V5 | 38 | #4 | STR | 6'-8" | 169 |
| V6 | 57 | #4 | STR | 7'-8" | 292 |
| V7 | 152 | #4 | STR | 8'-8" | 880 |
| V8 | 285 | #4 | STR | 9'-8" | 1840 |
| V9 | 84 | #4 | STR | 10'-8" | 599 |

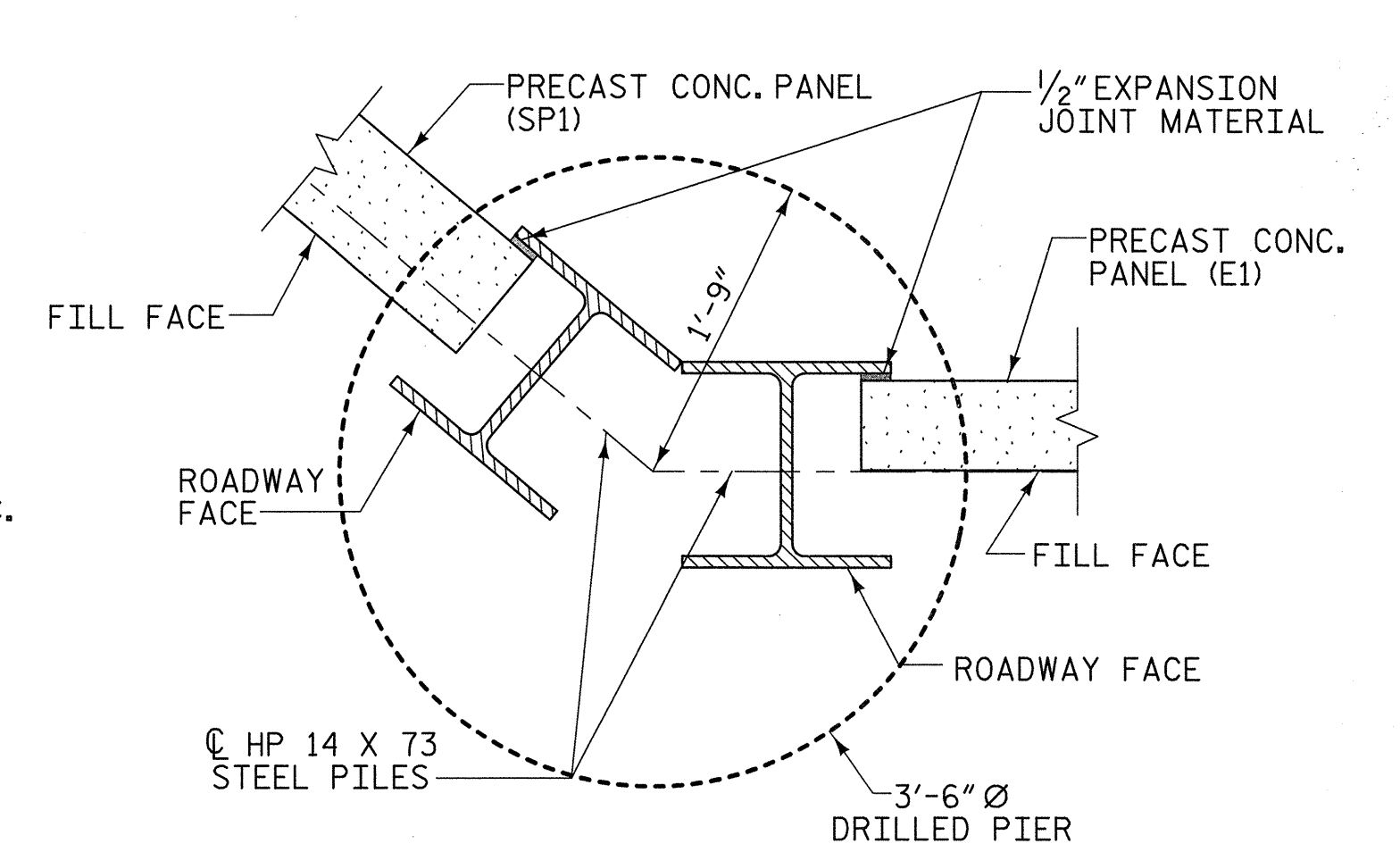
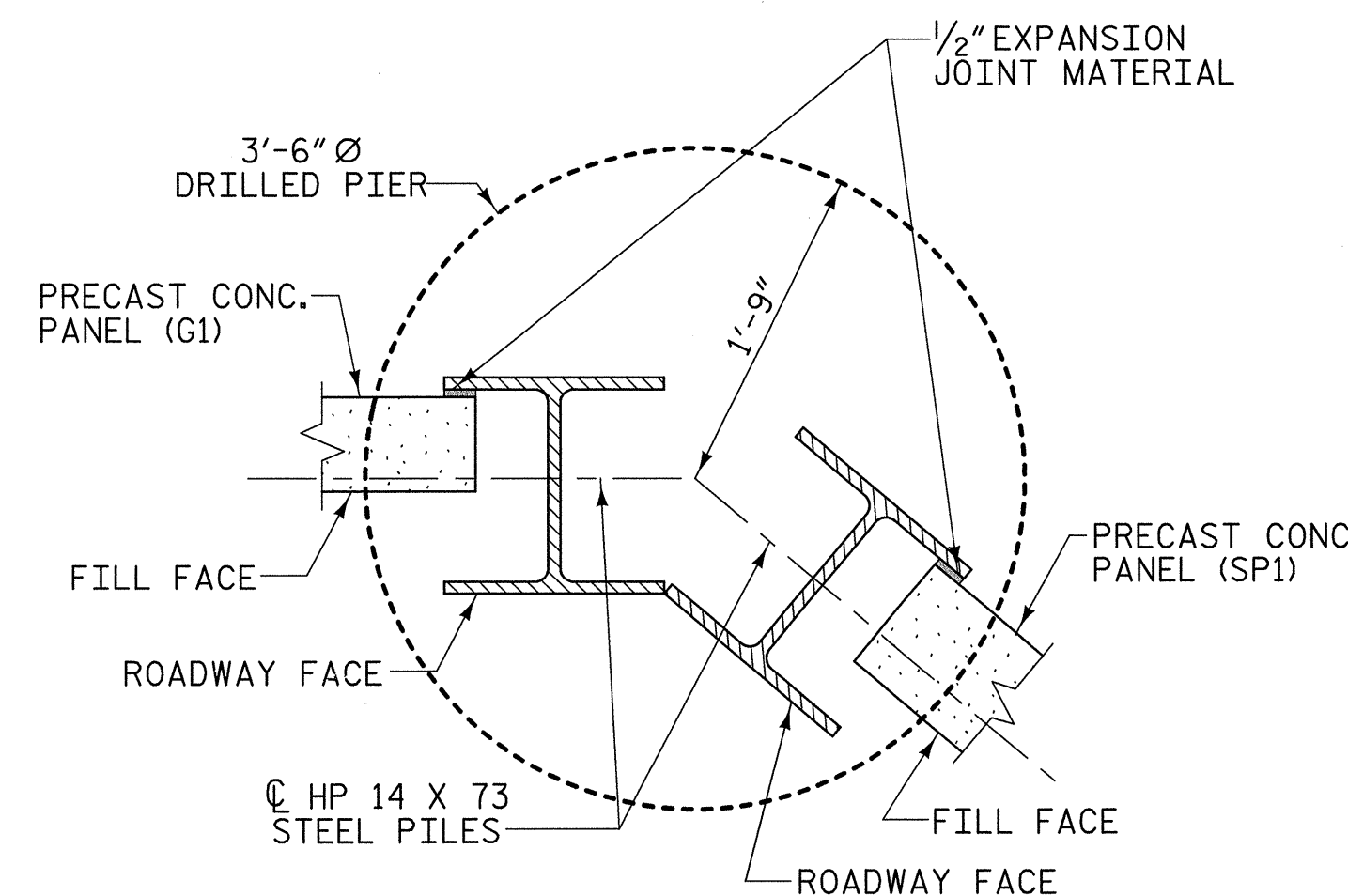
| PILE STATION | PILE NO. | PILE SIZE | PILE SPACE | PILE LENGTH | TOP CONC SHAFT ELEV | CUTOFF ELEV | PILE TIP ELEV | PANEL TYPE |
|--------------|----------|-----------|------------|-------------|---------------------|-------------|---------------|------------|
| 0+00.00 | 1 | HP 14x73 | - | 38.77 | 223.58 | 234.08 | 195.31 | |
| 0+10.00 | 2 | HP 14x73 | 10'-0" | 39.00 | 223.26 | 234.08 | 195.08 | H1 |
| 0+20.00 | 3 | HP 14x73 | 10'-0" | 38.34 | 222.95 | 233.76 | 195.42 | H1 |
| 0+30.00 | 4 | HP 14x73 | 10'-0" | 37.84 | 222.63 | 233.45 | 195.61 | H1 |
| 0+40.00 | 5 | HP 14x73 | 10'-0" | 38.16 | 222.31 | 233.13 | 194.97 | H1 |
| 0+50.00 | 6 | HP 14x73 | 10'-0" | 38.38 | 221.99 | 232.81 | 194.43 | H1 |
| 0+60.00 | 7 | HP 14x73 | 10'-0" | 38.09 | 221.99 | 232.49 | 194.40 | H1 |
| 0+70.00 | 8 | HP 12x53 | 10'-0" | 37.81 | 222.36 | 232.17 | 194.36 | G1 |
| 0+80.00 | 9 | HP 12x53 | 10'-0" | 37.36 | 222.04 | 231.86 | 194.50 | G1 |
| 0+90.00 | 10 | HP 12x53 | 10'-0" | 37.11 | 221.83 | 231.54 | 194.43 | G1 |
| 1+00.00 | 11 | HP 12x53 | 10'-0" | 37.68 | 221.83 | 231.44 | 193.76 | G1 |
| 1+10.00 | 12 | HP 12x53 | 10'-0" | 37.89 | 221.94 | 231.55 | 193.66 | G1 |
| 1+20.00 | 13 | HP 12x53 | 10'-0" | 37.54 | 222.05 | 231.66 | 194.12 | G1 |
| 1+30.00 | 14 | HP 12x53 | 10'-0" | 37.53 | 222.16 | 231.77 | 194.24 | G1 |
| 1+40.00 | 15 | HP 14x73 | 10'-0" | 38.17 | 221.48 | 231.98 | 193.81 | G1 |
| 1+50.00 | 16 | HP 14x73 | 10'-0" | 38.58 | 221.48 | 232.20 | 193.62 | H1 |
| 1+60.00 | 17 | HP 14x73 | 10'-0" | 38.78 | 221.70 | 232.41 | 193.63 | H1 |
| 1+70.00 | 18 | HP 14x89 | 10'-0" | 39.11 | 221.07 | 232.57 | 193.46 | H1 |
| 1+77.50 | 19 | HP 14x89 | 7'-6" | 39.23 | 221.07 | 232.73 | 193.50 | I2 |
| 1+85.00 | 20 | HP 14x89 | 7'-6" | 39.26 | 221.23 | 232.79 | 193.53 | I2 |
| 1+92.50 | 21 | HP 14x89 | 7'-6" | 39.22 | 221.23 | 232.79 | 193.57 | I2 |
| 2+00.00 | 22 | HP 14x89 | 7'-6" | 39.42 | 220.97 | 232.79 | 193.37 | I2 |
| 2+07.50 | 23 | HP 14x89 | 7'-6" | 39.36 | 220.97 | 232.63 | 193.27 | I2 |
| 2+15.00 | 24 | HP 14x89 | 7'-6" | 39.18 | 220.97 | 232.47 | 193.29 | I2 |
| 2+25.00 | 25 | HP 14x73 | 10'-0" | 38.84 | 221.66 | 232.32 | 193.48 | H1 |
| 2+35.00 | 26 | HP 14x73 | 10'-0" | 38.69 | 221.40 | 232.16 | 193.47 | H1 |
| 2+45.00 | 27 | HP 14x73 | 10'-0" | 38.44 | 221.13 | 231.90 | 193.46 | H1 |
| 2+55.00 | 28 | HP 14x73 | 10'-0" | 38.17 | 220.82 | 231.63 | 193.46 | H1 |
| 2+65.00 | 29 | HP 14x73 | 10'-0" | 37.87 | 220.51 | 231.32 | 193.45 | H1 |
| 2+75.00 | 30 | HP 14x73 | 10'-0" | 37.40 | 220.51 | 231.01 | 193.61 | H1 |
| 2+85.00 | 31 | HP 12x53 | 10'-0" | 36.89 | 221.88 | 230.69 | 193.80 | F1 |
| 2+95.00 | 32 | HP 12x53 | 10'-0" | 29.39 | 221.57 | 230.38 | 200.99 | F1 |
| 3+05.00 | 33 | HP 12x53 | 10'-0" | 29.01 | 221.57 | 230.07 | 201.06 | F1 |
| 3+15.00 | 34 | HP 12x53 | 10'-0" | 28.54 | 221.99 | 229.78 | 201.24 | E1 |
| 3+25.00 | 35 | HP 12x53 | 10'-0" | 28.19 | 221.99 | 229.49 | 201.30 | E1 |
| 3+35.00 | 36 | HP 12x53 | 10'-0" | 27.82 | 222.41 | 229.20 | 201.38 | D1 |
| 3+45.00 | 37 | HP 12x53 | 10'-0" | 26.45 | 222.13 | 228.91 | 202.46 | D1 |
| 3+55.00 | 38 | HP 12x53 | 10'-0" | 26.06 | 222.13 | 228.63 | 202.57 | D1 |
| 3+65.00 | 39 | HP 12x53 | 10'-0" | 25.73 | 222.63 | 228.38 | 202.65 | C1 |
| 3+75.00 | 40 | HP 12x53 | 10'-0" | 25.42 | 222.37 | 228.13 | 202.71 | C1 |
| 3+85.00 | 41 | HP 12x53 | 10'-0" | 25.05 | 222.12 | 227.87 | 202.82 | C1 |
| 3+95.00 | 42 | HP 12x53 | 10'-0" | 24.69 | 221.65 | 227.62 | 202.93 | C1 |
| 4+05.00 | 43 | HP 12x53 | 10'-0" | 24.20 | 221.65 | 227.15 | 202.95 | C1 |

TOTAL REINFORCING STEEL = 11443 lbs.
 CLASS "A" CONCRETE - CU. YARDS 61.8

| CAST-IN-PLACE COPING | | | | | |
|----------------------|-----|------|------|--------|--------|
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| A5 | 64 | #5 | STR | 53'-6" | 3571 |
| B4 | 407 | #4 | 1 | 3'-8" | 997 |
| C3 | 4 | #5 | 1 | 5'-0" | 21 |

TOTAL REINFORCING STEEL (COPING) 4589 lbs.
 CLASS "A" CONCRETE (COPING) - CU. YARDS 32.5

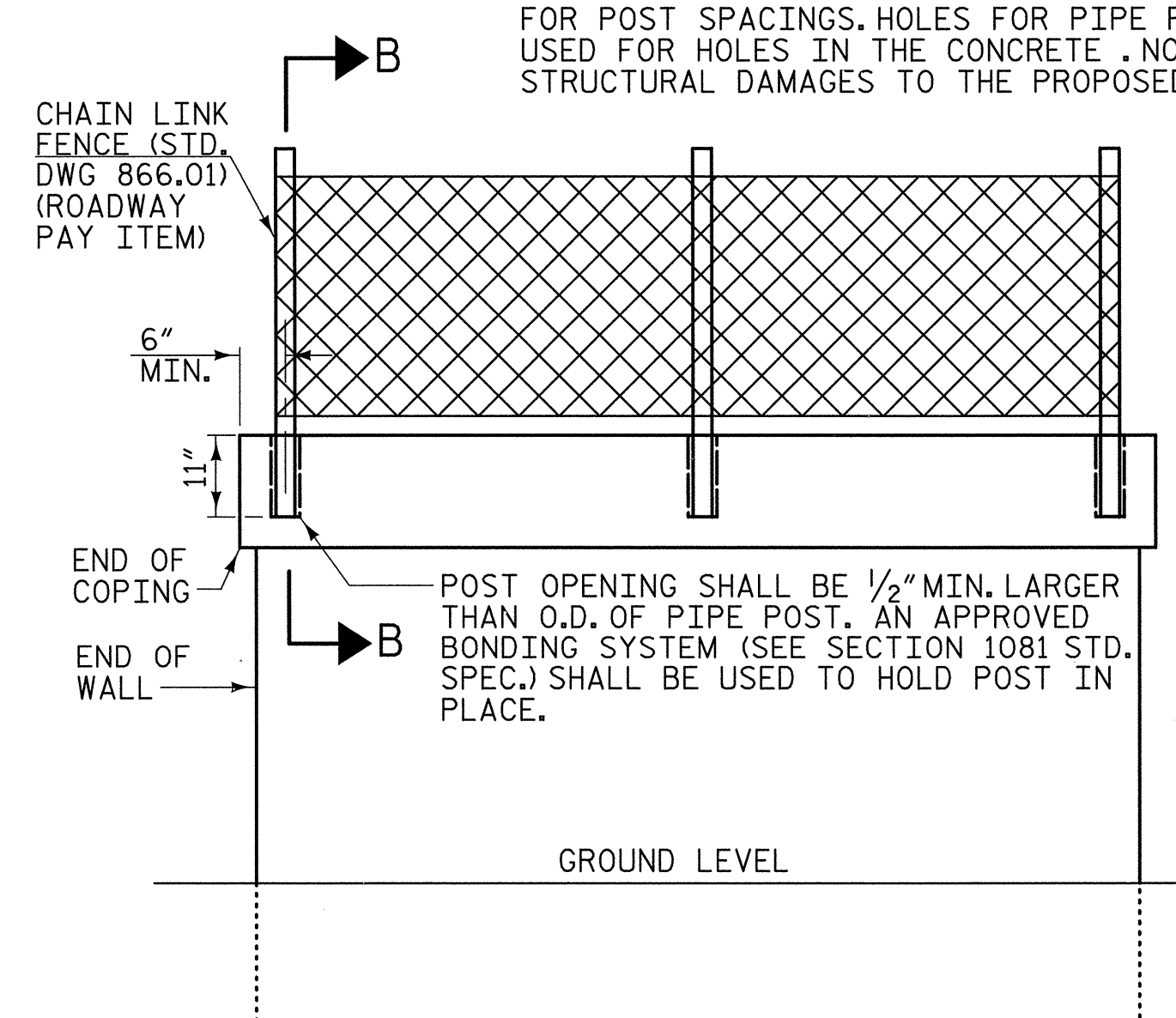
| ESTIMATED QUANTITIES | |
|--------------------------------------|---------|
| CAST-IN-PLACE COPING - LIN. FT. | 407'-0" |
| #57 STONE BACKFILL - CU. YARDS | 141.5 |
| SHAFT EXCAVATION - LIN. FT. | 1199 |
| SHAFT CONCRETE - CU. YARDS | 169.4 |
| PRECAST CONCRETE PANEL TYPE C1 - NO. | 5 |
| PRECAST CONCRETE PANEL TYPE D1 - NO. | 3 |
| PRECAST CONCRETE PANEL TYPE E1 - NO. | 2 |
| PRECAST CONCRETE PANEL TYPE F1 - NO. | 3 |
| PRECAST CONCRETE PANEL TYPE G1 - NO. | 8 |
| PRECAST CONCRETE PANEL TYPE H1 - NO. | 15 |
| PRECAST CONCRETE PANEL TYPE I2 - NO. | 6 |
| HP 12 X 53 STEEL PILES - EA. | 20 |
| HP 12 X 53 STEEL PILES - LIN. FT. | 620 |
| HP 14 X 73 STEEL PILES - EA. | 16 |
| HP 14 X 73 STEEL PILES - LIN. FT. | 614 |
| HP 14 X 89 STEEL PILES - EA. | 7 |
| HP 14 X 89 STEEL PILES - LIN. FT. | 275 |



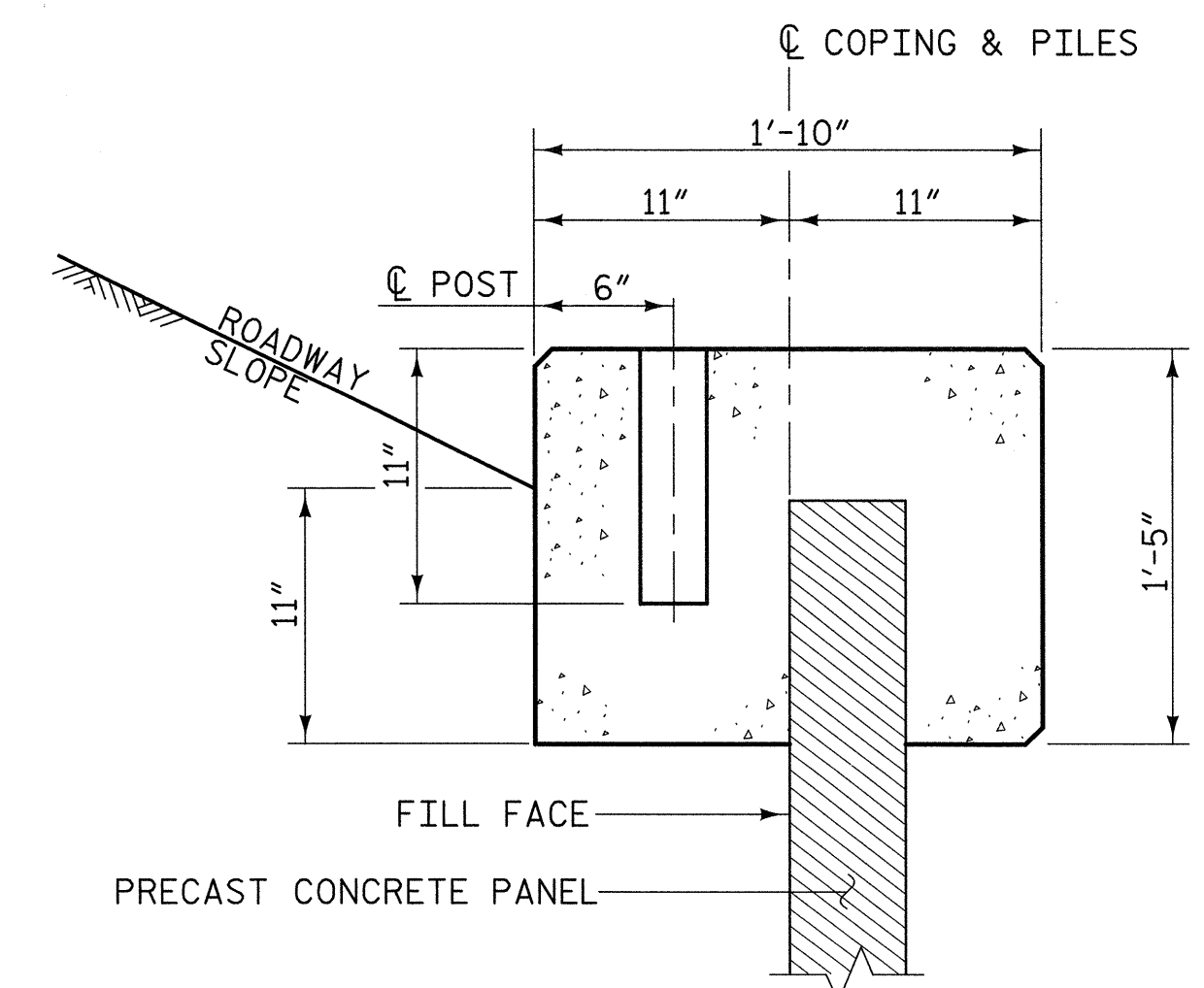
DETAIL C
(CONCAVE TOWARD ROADWAY)
N.T.S.

DETAIL D
(CONVEX TOWARD ROADWAY)
N.T.S.

NOTE:
 CHAIN LINK FENCE SHALL BE EMBEDDED 11" INTO PROPOSED WALL WITH EPOXY OR CONCRETE GROUT ANCHORING SYSTEM AS DIRECTED BY THE ENGINEER. THE PROPOSED RAILING SHALL BE PRE-MEASURED AND ON TOP OF WALL FOR POST SPACINGS. HOLES FOR PIPE POSTS MAY BE FORMED OR DRILLED. IF DRILLED, A ROTARY DRILL SHALL BE USED FOR HOLES IN THE CONCRETE. NO IMPACT DRILLS SHALL BE ALLOWED, TO ELIMINATE ANY POSSIBILITY OF STRUCTURAL DAMAGES TO THE PROPOSED WALL.



ELEVATION VIEW

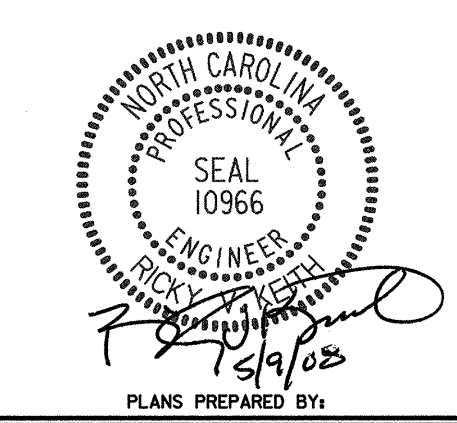


SECTION B-B

CHAIN LINK FENCE ATTACHMENT DETAIL
N.T.S.

PROJECT NO. U-4756
 CUMBERLAND COUNTY

SHEET 5 OF 5



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PILE / PANEL
 RETAINING WALL

| REVISIONS | | | | SHEET NO. |
|-----------|-----|-------|-----|-----------|
| NO. | BY: | DATE: | NO. | DATE: |
| 1 | | | 3 | |
| 2 | | | 4 | |

TOTAL SHEETS: W-5

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DRAWN BY: W. B. ALLEN DATE: 3/08
 CHECKED BY: R.V. KEITH DATE: 4/08