

# VOID

DESIGN DATA (RETAINED BACKFILL)

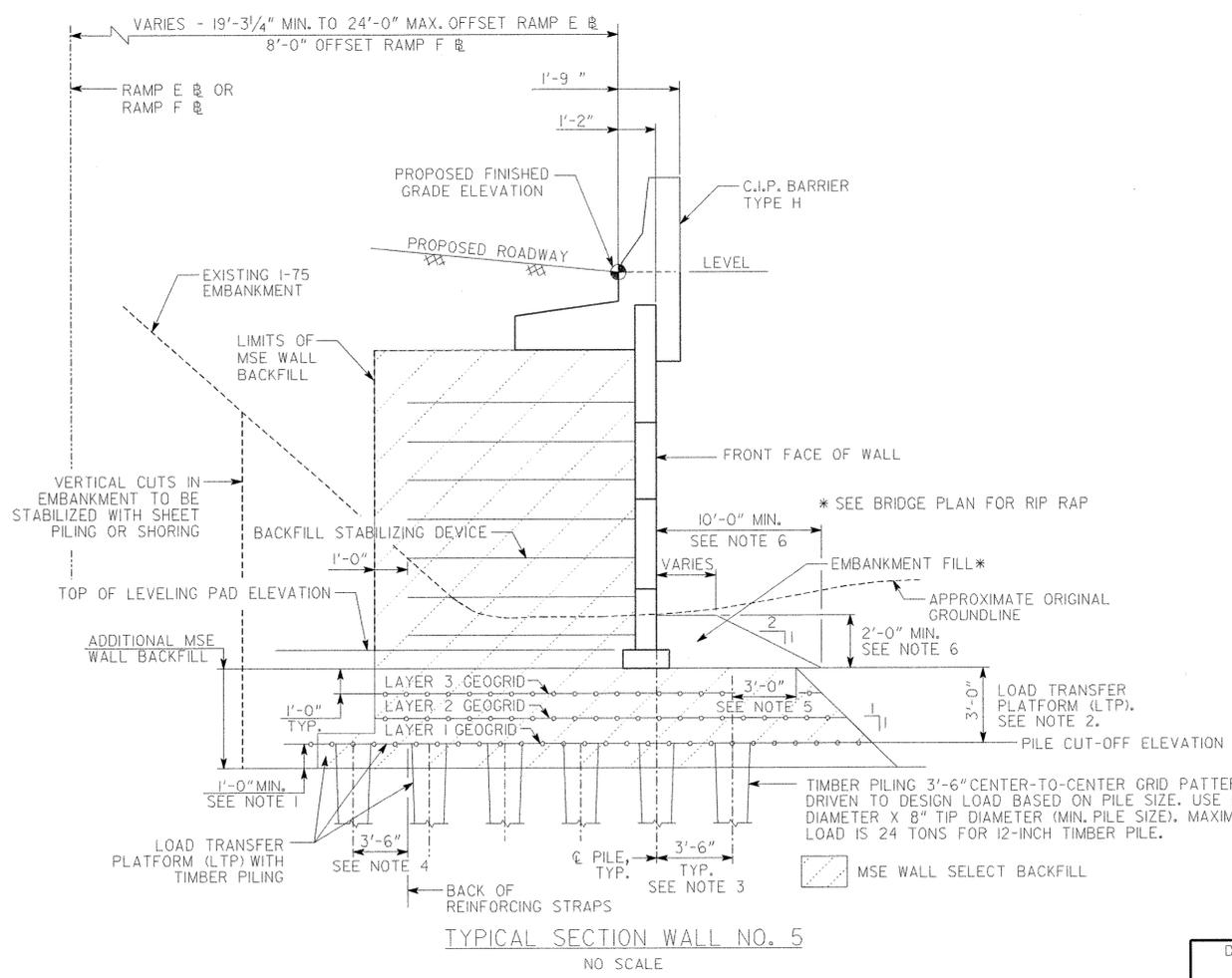
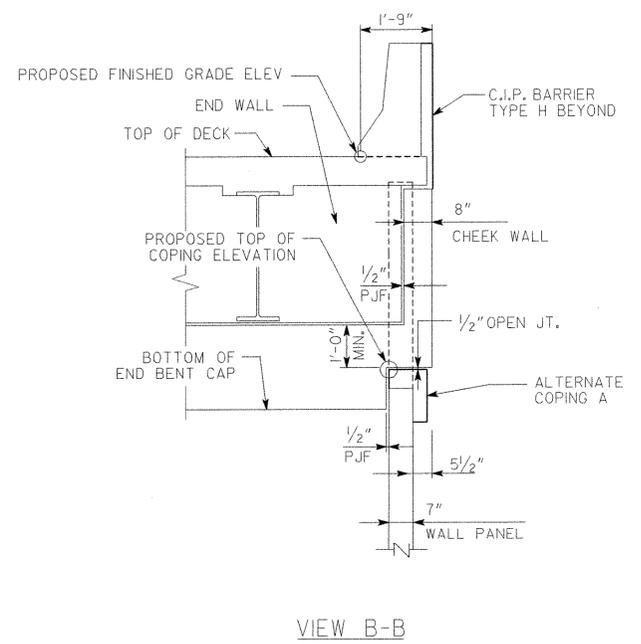
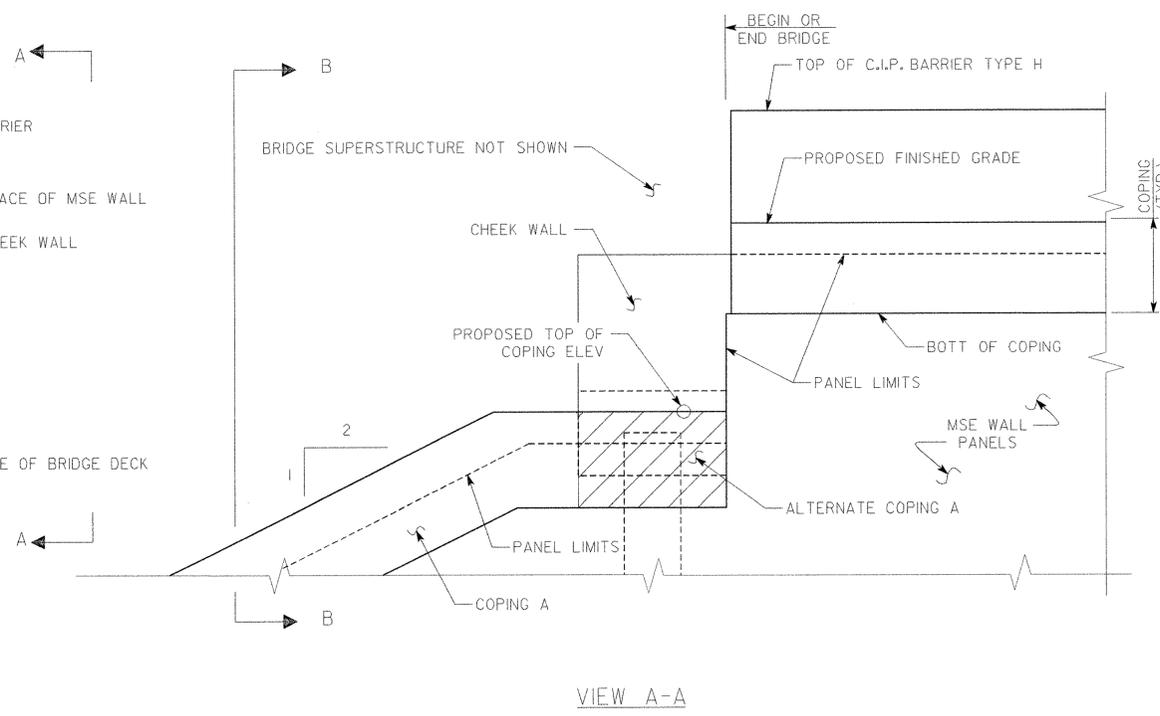
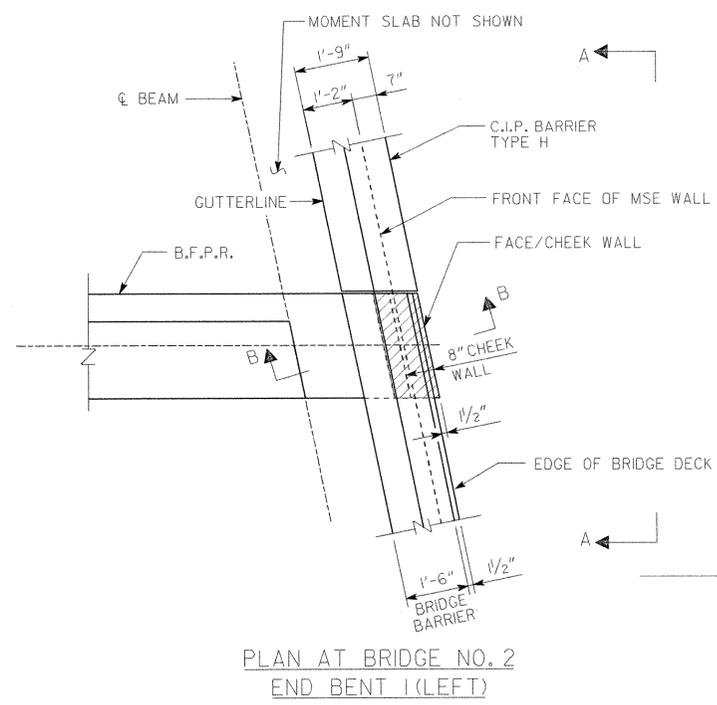
DESIGN BEARING PRESSURE ----- 2.0 TONS/SF  
 COHESION ----- 0 PSF  
 ANGLE OF INTERNAL FRICTION ----- 28°  
 UNIT WEIGHT ----- 120 PCF  
 COEFFICIENT OF SLIDING FRICTION ----- 0.35

### SUMMARY OF QUANTITIES - WALL NO. 5

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
457-1010	5525	SY	GEOGRID REINFORCEMENT, TP B
520-2500	39850	LF	PILING, TIMBER-TREATED
627-1000	73	SF	MSE WALL FACE, 0-10 FT HT, WALL NO - 5
627-1010	265	SF	MSE WALL FACE, 10-20 FT HT, WALL NO - 5
627-1020	6838	SF	MSE WALL FACE, 20-30 FT HT, WALL NO - 5
627-1030	6980	SF	MSE WALL FACE, GTR THAN 30 FT HT, WALL NO - 5
627-1100	42	LF	COPING A, WALL NO - 5
627-1160	451	LF	TRAFFIC BARRIER H, WALL NO - 5
627-1180	1730	CY	ADDITIONAL MSE BACKFILL

### LOAD TRANSFER PLATFORM WITH TIMBER PILING NOTES:

1. INSTALL A MINIMUM OF 12 INCHES OF COMPACTED MSE WALL BACKFILL MATERIAL. THE TIMBER PILING SHOULD BE DRIVEN THROUGH THIS LAYER. AFTER COMPLETION OF PILE DRIVING, THE SPACES BETWEEN THE EXPOSED CUTOFF BUTT ENDS OF THE PILES SHOULD THEN BE BACKFILLED WITH ADDITIONAL COMPACTED MSE WALL BACKFILL BROUGHT UP "FLUSH" WITH THE TOPS OF THE CUTOFF PILES.
2. INSTALL 36-INCH HIGH LTP. CONSISTS OF 3, 12-INCH COMPACTED LAYERS OF BIAXIAL GEOGRID CONFORMING TO GDOT SPECIAL PROVISIONS 457 AND 809. FIRST LAYER OF GEOGRID TO BE PLACED AT PILE CUT-OFF ELEVATION.
3. FIRST ROW OF TIMBER PILING TO BE APPROX. 3-FEET 6-INCHES FROM FRONT FACE OF MSE WALL, AND FROM BEGIN WALL.
4. LAST ROW OF TIMBER PILING TO BE APPROX. 3-FEET 6-INCHES BEHIND BACK OF REINFORCING STRAPS, AND FROM END WALL.
5. EXTEND TOP OF LTP A MINIMUM OF 3 FEET FROM CENTER OF FIRST ROW OF PILING. SLOPE AT 1:1 TO PILE CUT-OFF ELEVATION.
6. PLACE A MINIMUM OF 2 FEET OF COMPACTED EMBANKMENT FILL MATERIAL AT TOE OF WALL. TOE FILL TO EXTEND A MINIMUM OF 10 FEET HORIZONTALLY FROM WALL FACE. SLOPE FILL AT 2:1.
7. USE 12-INCH BUTT DIAMETER X 8-INCH TIP DIAMETER (MINIMUM PILE SIZE). MAXIMUM DESIGN LOAD IS 24 TONS FOR 12-INCH TIMBER PILE.
8. ESTABLISH A MINIMUM OF SIX (6) SETTLEMENT MONITORING POINTS, EVENLY SPACED WITHIN THE WALL BACKFILL. ALSO ESTABLISH A MINIMUM OF SIX (6) LATERAL MOVEMENT MONITORING POINTS EVENLY SPACED AT THE BASE OF THE WALL. TAKE WEEKLY SETTLEMENT AND LATERAL MOVEMENT READINGS FOR UP TO 180 DAYS AFTER CONSTRUCTION.



WALL NO. 5

**Kimley-Horn and Associates, Inc.**  
©, 2012

2 SUN COURT, SUITE 220  
NORCROSS, GA 30092-2865

GEORGIA  
**DEPARTMENT OF TRANSPORTATION**  
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

WALL NO. 5 DETAILS  
INTERCHANGE RECONSTRUCTION  
I-75 @ SR 3/US 41/76 (ROCKY FACE)  
WHITFIELD COUNTY NHS00-0000-00(931)

NO SCALE JULY 2012

DRAWING NO. 32 - 008	DESIGNED AEL	CHECKED DLS	REVIEWED WEI/WMD
WALL SHEET 8 OF 8	DRAWN KAG	DESIGN GROUP EJC	APPROVED BFR