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| DRAWN BY : CHECKED BY : DESIGN ENGINEER OF RECORD: | N. WRIGHT R. ALONSO R. ALONSO | DATE : 06/15/16 DATE : 06/15/16 DATE : 06/15/16 | | |
|--|-------------------------------------|---|----------|----------|
| \$USER\$ | | 1/5/2017 | \$TIME\$ | \$FILE\$ |



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| H (FT) | 3 - < 6 | 6 - 9 | > 9 - 12 |
|--|---------|------------------|----------------------|
| SLOPE CASE | .66 | .70* | . 75 * |
| NO SLOPE CASE WITH TRAFFIC SURCHARGE | .80 | .75 * | .70* |
| NO SLOPE CASE WITHOUT TRAFFIC SURCHARGE | .60 | .60 | .60 |



BRICK VENEER DETAIL

(WHEN APPLICABLE)

NOTES:

FOR STANDARD CAST-TN-PLACE (CTP) GRAVITY RETAINING WALLS, SEE CAST-IN-PLACE GRAVITY R FOR STEEL BEAM GUARDRA THE STANDARD SPECIFICAT FOR SINGLE FACED PRECAS AND SECTION 857 OF THE FOR FENCES OR HANDRAILS FENCE OR HANDRAIL ATTAC FOR SUBSURFACE DRAINAGE THE STANDARD SPECIFICAT STANDARD CIP GRAVITY WA Assumed soil parameters UNIT WEIGHT, γ = 120 L⁴ FRICTION ANGLE, ϕ = 35 (GROUNDWATER WITH FRICTION ANGLE, ϕ = 30 (GROUNDWATER MORE COHESION, c = 0 LB/SF

DO NOT USE STANDARD CIP PARAMETERS ARE NOT APPLI OF FOOTING.

DO NOT USE STANDARD CIP SOIL OR MUCK IS BELOW

BEFORE BEGINNING STANDA SURVEY WALL LOCATIONS A ENVELOPES) FOR REVIEW. F WALL, EXISTING GROUND AN ELEVATIONS AS NEEDED AT DO NOT START WALL CONST ACCEPTED.

FOR BRICK VENEERS, SUBMI Beginning standard cip

DO NOT PLACE CONCRETE F AND FOUNDATION MATERIAL

WHEN CONSTRUCTING STAND CONSTRUCTION JOINT AS S OF 3 EQUALLY SPACED #4 WALLS.



| DOCUMENT NOT CONSIDERED SHOWN IN DETAIL "A", PROVIDE A DOWELS AT INTERVALS OF 1'-6" AL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED NP , SUITE 320 28210 89 C-2213 | PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- 5+00.00 -WALL1- DE CIP CONCRETE RETAINING WALL <u>REVISIONS</u> SHEET NO. <u>W-2</u> <u>JOINAL</u> SHEET NO. <u>W-2</u> <u>JOINAL</u> SHEET NO. <u>W-2</u> <u>JOINAL</u> SHEET NO. |
|---|---|
| DOCUMENT NOT CONSIDERED SHOWN IN DETAIL "A", PROVIDE A DOWELS AT INTERVALS OF 1'-6" AL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SUITE 320 28210 | PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- 5+00.00 -WALL1- DEPARTMENT OF TRANSPORTATION RALEIGH DEPARTMENT OF TRANSPORTATION RALEIGH DEPARTMENT OF TRANSPORTATION RALEIGH DEPARTMENT OF TRANSPORTATION REVISIONS SHEET NO. |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- <u>5+00.00</u> -WALL1- DEPARTMENT OF TRANSPORTATION RALEIGH DEPARTMENT OF TRANSPORTATION RALEIGH |
| DARD CIP GRAVITY WALLS WITH A SHOWN IN DETAIL "A", PROVIDE A DOWELS AT INTERVALS OF 1'-6" AL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- <u>5+00.00</u> -WALL1- DEPARTMENT OF TRANSPORTATION RALEIGH CIP CONCRETE |
| DARD CIP GRAVITY WALLS WITH A SHOWN IN DETAIL "A", PROVIDE A DOWELS AT INTERVALS OF 1'-6" AL | PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- 5+00.00 -WALL1- STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH |
| DARD CIP GRAVITY WALLS WITH A Shown in Detail "A", provide a Dowels at intervals of 1'-6" Al | PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- <u>5+00.00</u> -WALL1- |
| DARD CIP GRAVITY WALLS WITH A Shown in detail "A", provide a Dowels at intervals of 1'-6" Al | MINIMUM PROJECT NO. <u>W-5520</u> <u>UNION</u> COUNTY STATION: <u>205+20.44</u> -L2- 5+00.00 -WALL1- |
| DARD CIP GRAVITY WALLS WITH A Shown in detail "A", provide a Dowels at intervals of 1'-6" Al | $\frac{W_{\text{INIMUM}}}{PROJECT NO.} = \frac{W-5520}{UNION} COUNTY$ $STATION: \frac{205+20.44}{5+00.00} = WALL 1 = 0$ |
|)ARD CIP GRAVITY WALLS WITH A GHOWN IN DETAIL "A", PROVIDE A DOWELS AT INTERVALS OF 1'-6" AL | MINIMUM Long PROJECT NOW-5520 UNIONCOUNTY |
|)ARD CIP GRAVITY WALLS WITH A Shown in detail "A", provide a Jowels at intervals of 1'-6" al | MINIMUM Long PROJECT NO. W-5520 |
|)ARD CIP GRAVITY WALLS WITH A Shown in detail "A" provide A | Δ. ΜΤΝΙΤΜΙΙΜ |
| | |
| GRAVITY WALL CONSTRUCTION. OR FOOTINGS UNTIL EXCAVATION | DIMENSIONS |
| T BRICK SAMPLES FOR APPROVAL | BEFORE |
| OR WALL ENVELOPES, INCLUDE BOT ID GRADE ELEVATIONS AND OTHER INTERVALS OF 25' OR LESS ALON TRUCTION UNITE WALL ENVELOPES | TOM OF NG WALLS. |
| 'ALLS. RD CIP GRAVITY WALL CONSTRUC ND SUBMIT WALL PROFILE VIEWS | CTION, S (WALL |
| GRAVITY WALLS WHEN VERY LOO | DSE OR SOFT |
| GRAVITY WALLS IF ASSUMED SO ICABLE OR GROUNDWATER IS ABO | DIL DVE BOTTOM |
| DEGREES THAN 7' BELOW BOTTOM OF FOOT | TING) |
|): 3/CF DEGREES HTN 7/ OF BOTTOM OF FOOTING) | |
| IONS. Alls are based on the followi | NG IN-SITU |
| AT WEEP HOLES. SEE ARTICLE 41 | 4-8 OF |
| ON TOD OF WALLS SEE DOADWAY | DI ANS EOD |
| STANDARD SPECIFICATIONS. | |
| L, SEE RUADWAY PLANS AND SECT IONS. T CONCRETE BARRIER, SEE ROADWA STANDARD SPECIFICATIONS. | LUN 862 UF |