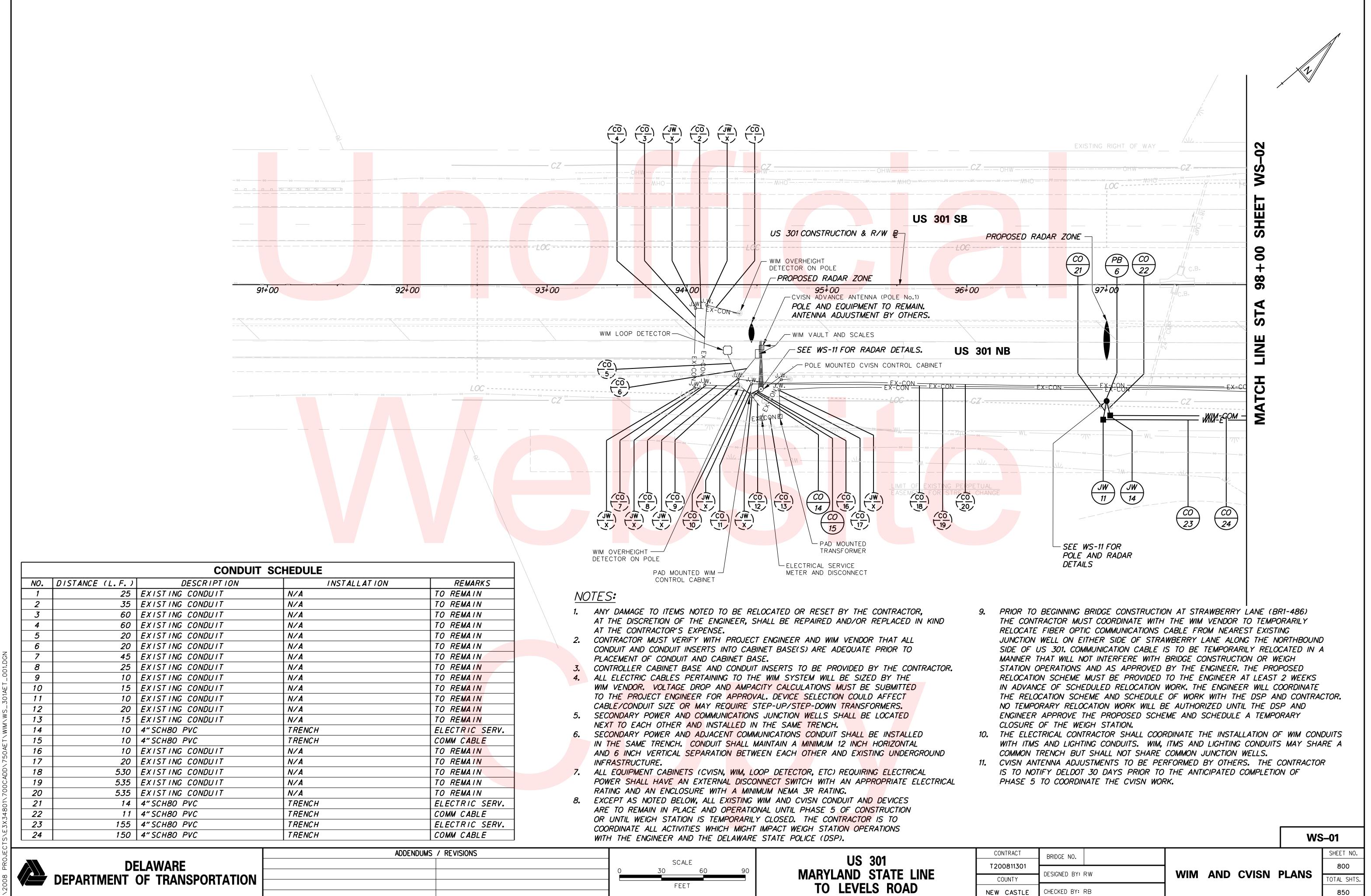
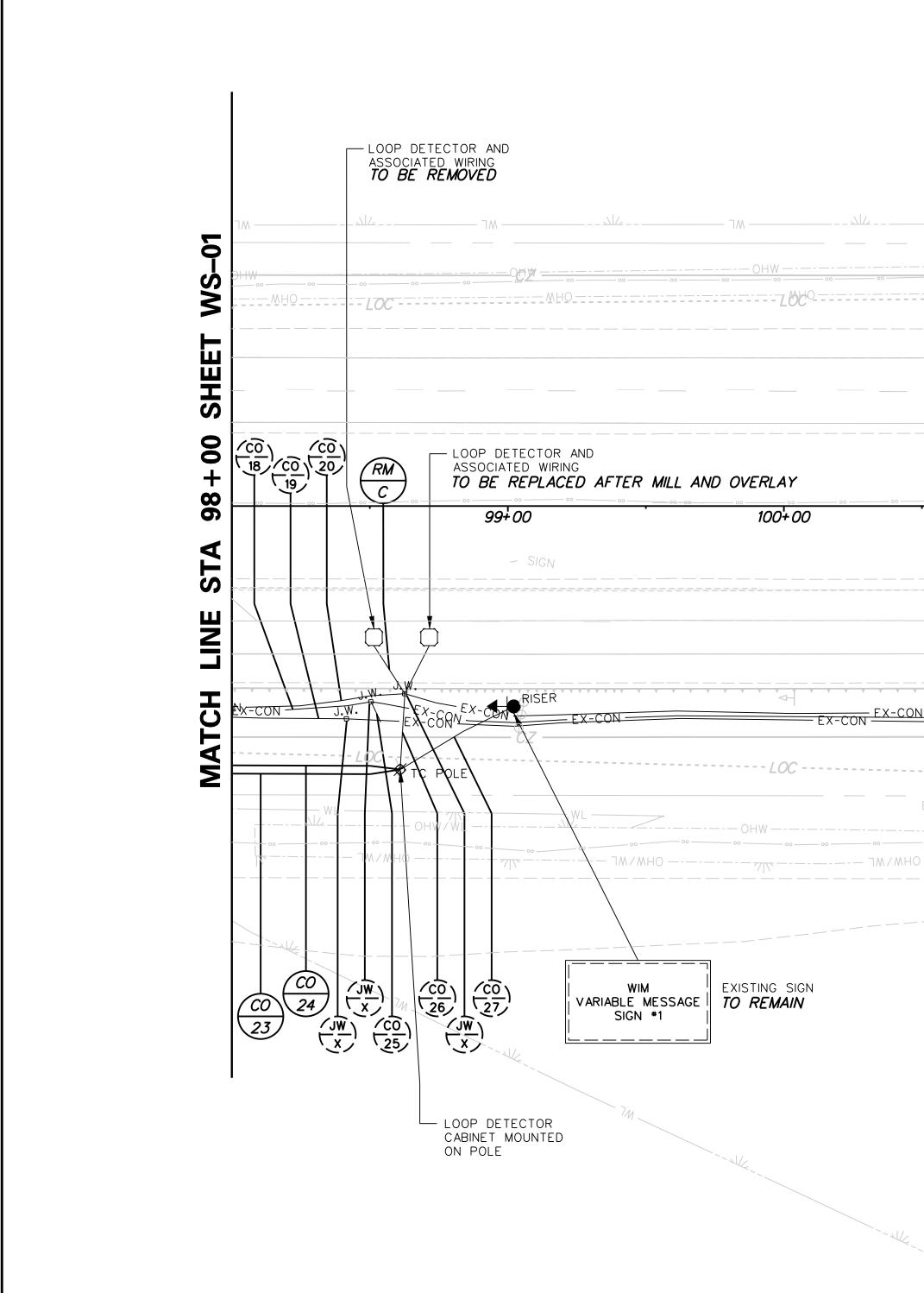


| NO. | DISTANCE (L.F.) | DESCRIPTION | INSTALLATION | REMAR |
|-----|-----------------|------------------|--------------|-------------------------|
| 1 | 25 | EXISTING CONDUIT | N/A | TO REMAII |
| 2 | 35 | EXISTING CONDUIT | N/A | TO REMAIL |
| 3 | 60 | EXISTING CONDUIT | N/A | TO REMAIL |
| 4 | 60 | EXISTING CONDUIT | N/A | TO REMAIN |
| 5 | 20 | EXISTING CONDUIT | N/A | TO REMAIN |
| 6 | 20 | EXISTING CONDUIT | N/A | TO REMAIN |
| 7 | 45 | EXISTING CONDUIT | N/A | TO REMAIN |
| 8 | 25 | EXISTING CONDUIT | N/A | TO REMAI |
| 9 | 10 | EXISTING CONDUIT | N/A | TO REMAI |
| 10 | 15 | EXISTING CONDUIT | N/A | TO REM <mark>AII</mark> |
| 11 | 10 | EXISTING CONDUIT | N/A | TO REMAI |
| 12 | 20 | EXISTING CONDUIT | N/A | TO REMAI |
| 13 | 15 | EXISTING CONDUIT | N/A | TO REMAI |
| 14 | 10 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 15 | 10 | 4" SCH80 PVC | TRENCH | COMM CAB |
| 16 | 10 | EXISTING CONDUIT | N/A | TO REMAII |
| 17 | 20 | EXISTING CONDUIT | N/A | TO REMAT |
| 18 | 530 | EXISTING CONDUIT | N/A | TO REMAIN |
| 19 | 535 | EXISTING CONDUIT | N/A | TO REMAIN |
| 20 | 535 | EXISTING CONDUIT | N/A | TO REMAIN |
| 21 | 14 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 22 | 11 | 4" SCH80 PVC | TRENCH | COMM CAB |
| 23 | 155 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 24 | 150 | 4" SCH80 PVC | TRENCH | COMM CABL |





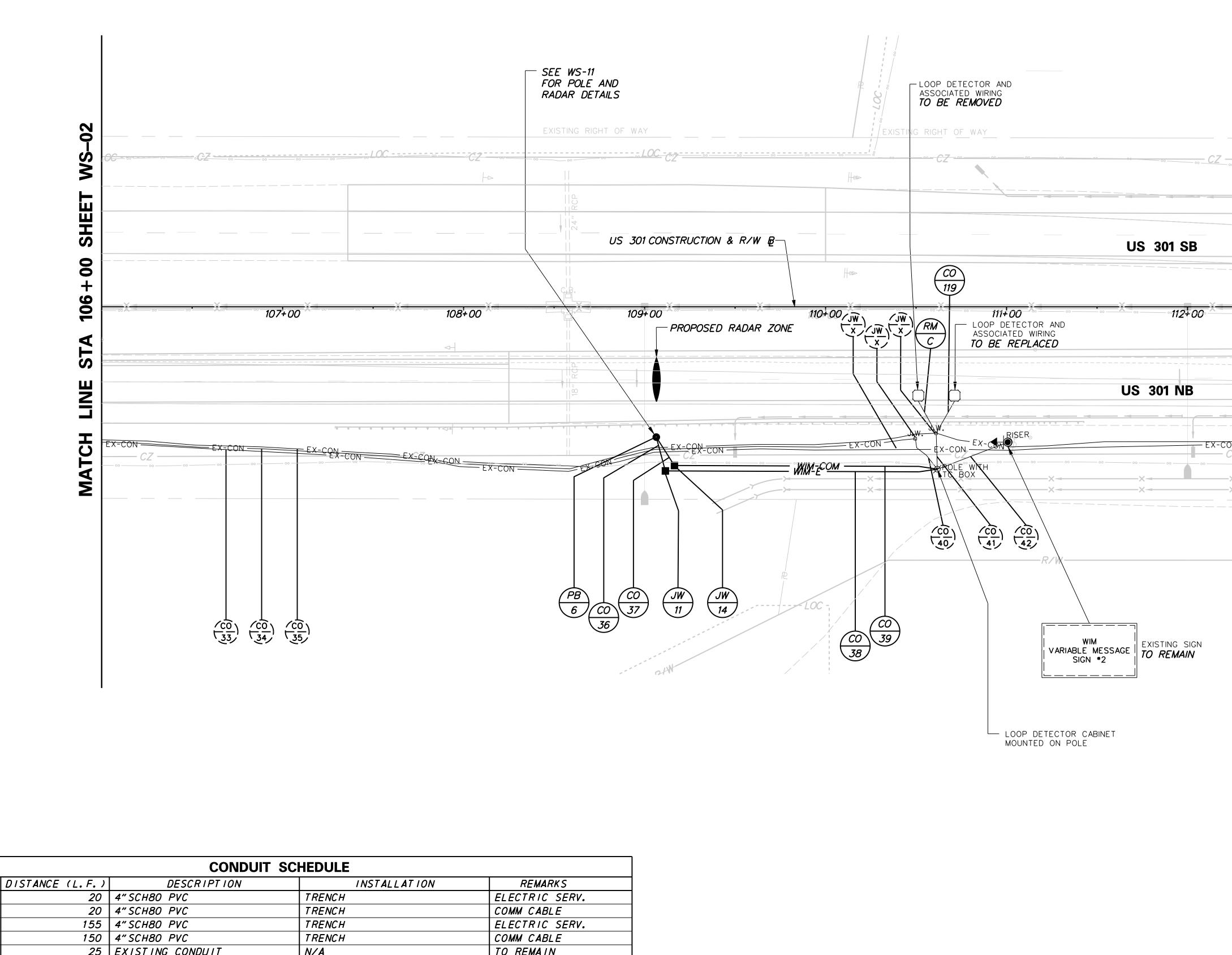
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| | | CONDUIT | SCHEDULE | |
|-----|-----------------|------------------|--------------|-------------------------|
| NO. | DISTANCE (L.F.) | DESCRIPTION | INSTALLATION | REMARK |
| 25 | 30 | EXISTING CONDUIT | N/A | TO REMAIN |
| 26 | 30 | EXISTING CONDUIT | N/A | TO REMAIN |
| 27 | 50 | EXISTING CONDUIT | N/A | TO REMAIN |
| 28 | 535 | EXISTING CONDUIT | N/A | TO REMAIN |
| 29 | 530 | EXISTING CONDUIT | N/A | TO REMAIN |
| 30 | 535 | EXISTING CONDUIT | N/A | TO REMAIN |
| 31 | 35 | EXISTING CONDUIT | N/A | TO REMAIN |
| 32 | 25 | EXISTING CONDUIT | N/A | TO REMAIN |
| 33 | 670 | EXISTING CONDUIT | N/A | TO REMAIN |
| 34 | 675 | EXISTING CONDUIT | N/A | TO REMAIN |
| 35 | 675 | EXISTING CONDUIT | N/A | TO REMAIN |
| | • | | |) FNDUMS / REVISIONS |



ADDENDUMS / REVISIONS

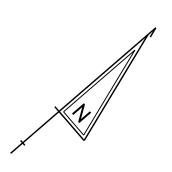
| ЛМЛМЛМ ОНWОН ОНWОН МНQОС | W CZ MH0H0 | 1.M | CVISN IN-CAB NOTIFICATION ANTENNA (POLE NO. 2 POLE AND EQUIPMENT TO REMAIN. ANTENNA ADJUSTMENT BY OTHERS. | 2) 5) 6) | 2 |
|-----------------------------------|---------------------------|--|---|--|---|
| US 301 CONSTRUCTION & R/W B | US 301 SB | | | O SHE | |
| 101+00 | 102+00 | 103+00 //C.B. // | 0 ··· ··· ··· ··· ··· ··· ··· ··· ··· · | radius 2000 - 20 | |
| U | S 301 NB | | 24 " 24 " | | |
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| EXISTING RIGHT OF WAY | | | EXISTING RIGHT OF | WAY | |
| XKS | | | | | |
| | | | CONTRACT BRIDGE NO. | | WS-02 SHEET NO. |
| 0 | SCALE 30 60 90 FEET | US 301 MARYLAND STATE LINE TO LEVELS ROAD | T200811301 DESIGNED BY: RW COUNTY DESIGNED BY: RW NEW CASTLE CHECKED BY: RB | WIM AND CVISN | 801 TOTAL SHTS. 850 |



| _003.DGN |
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| _301AET |
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| 750AET |
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| 4801/7 |
| TS/E3X3 |
| PROJEC |
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| NO. | DISTANCE (L.F.) | DESCRIPTION | INSTALLATION | REMARI |
|-----|-----------------|---------------------------|--------------|-----------|
| 36 | 20 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 37 | 20 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 38 | 155 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 39 | 150 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 40 | 25 | EXISTING CONDUIT | N/A | TO REMAIN |
| 41 | 25 | EXISTING CONDUIT | N/A | TO REMAIN |
| 119 | 5 | 2" GALVANIZED RIGID STEEL | TRENCH | LOOP CABL |
| 42 | 45 | EXISTING CONDUIT | N/A | TO REMAIN |
| 43 | 430 | EXISTING CONDUIT | N/A | TERMINATE |
| 44 | 410 | EXISTING CONDUIT | N/A | TERMINATE |

| 43 430 EXISTING CONDUIT 44 410 EXISTING CONDUIT | | RMINATE IN NEW JW. RMINATE IN NEW JW. | | | - | |
|---|---------------|--|------------|---------------------|----------------------|-----------------|
| | ADDENDUMS / R | REVISIONS | SCALE | US 301 | CONTRACT | BRIDGE NO. |
| DELAWARE DEPARTMENT OF TRANSPORTATION | | | 0 30 60 90 | MARYLAND STATE LINE | T200811301 COUNTY | DESIGNED BY: RW |
| | | | FEET | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: RB |

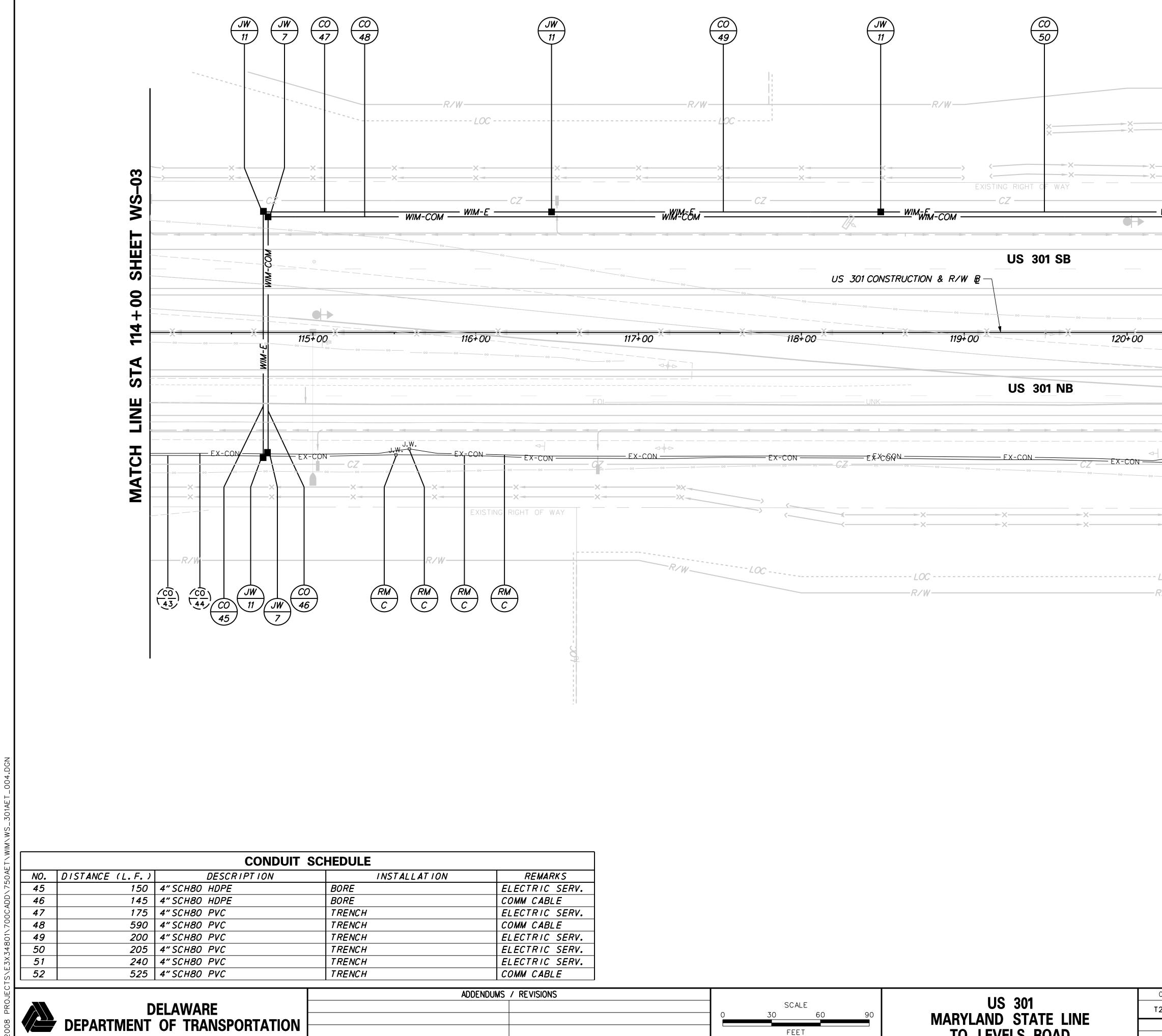


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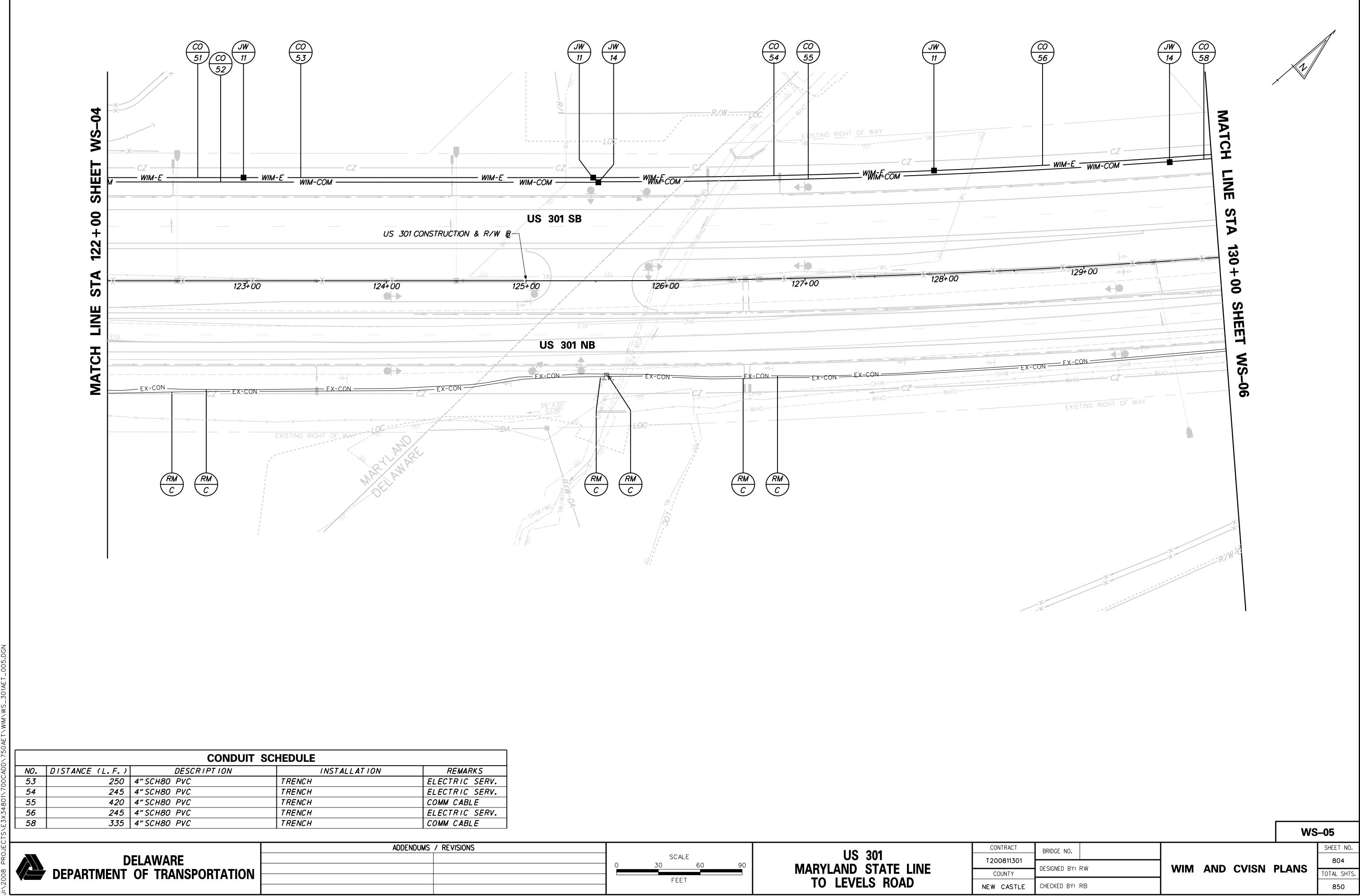
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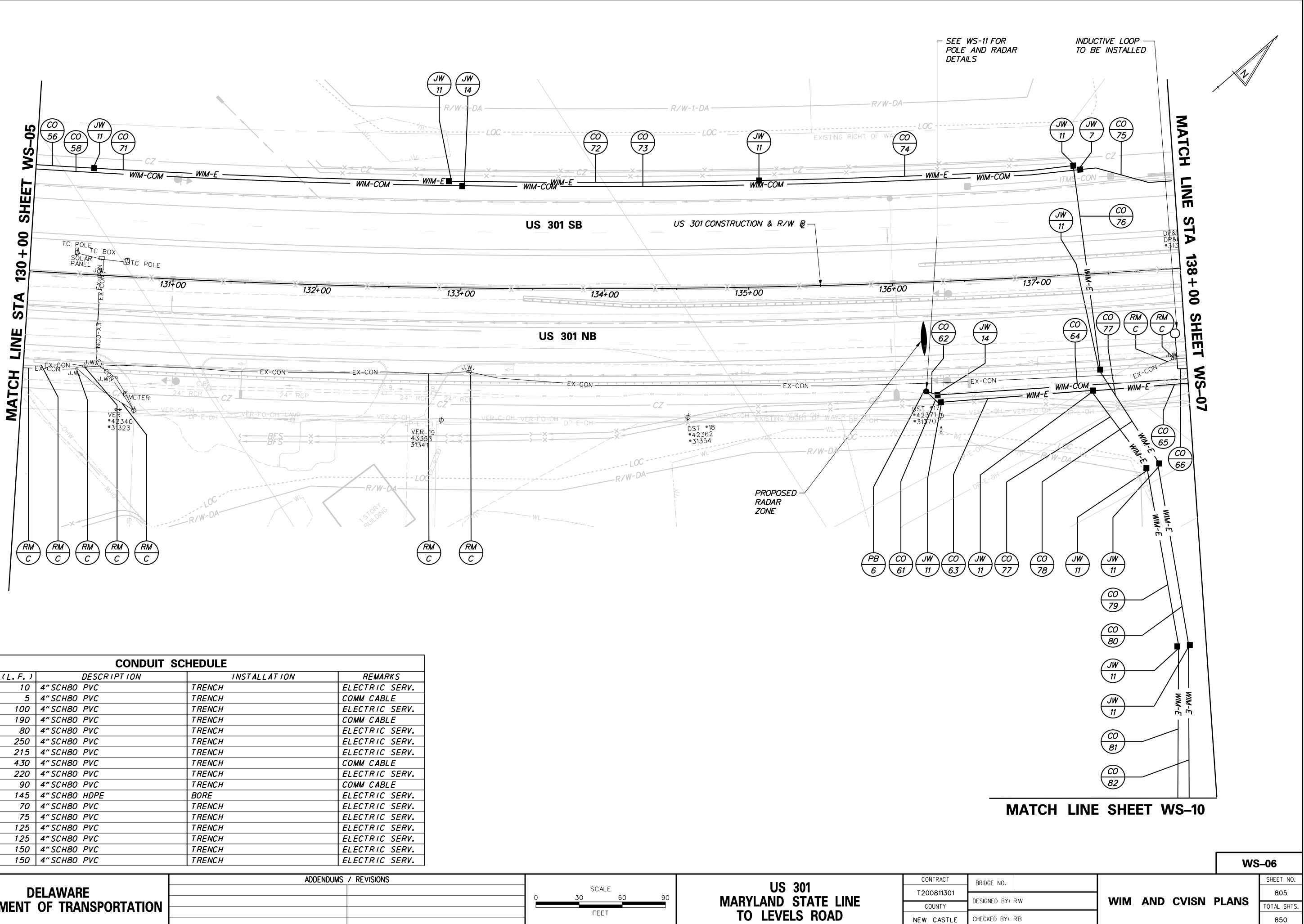
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| | | R/W | | | | | |
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| RKS SERV. LE SERV. SERV. SERV. LE | | | | | | WS- | |
| IS | SCALE 0 30 60 90 FEET | US 301 MARYLAND STATE TO LEVELS ROA | LINE CONTRACT T200811301 COUNTY NEW CASTLE | BRIDGE NO. DESIGNED BY: RW CHECKED BY: RB | WIM AND CVISN | PLANS | SHEET NO. 803 TOTAL SHTS. 850 |



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| | 0 30 | | 90 | MARYLAND STATE LINE | 12 |
| | | FEET | | TO LEVELS ROAD | NEV |



| CONDUIT SCHEDULE | | | | | |
|------------------|-----------------|---------------|--------------|-----------|--|
| NO. | DISTANCE (L.F.) | DESCRIPTION | INSTALLATION | REMAR | |
| 61 | 10 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| <i>62</i> | 5 | 4" SCH80 PVC | TRENCH | COMM CABL | |
| 63 | 100 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 64 | 190 | 4" SCH80 PVC | TRENCH | COMM CABL | |
| 65 | 80 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 71 | 250 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 72 | 215 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 73 | 430 | 4" SCH80 PVC | TRENCH | COMM CABL | |
| 74 | 220 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 75 | 90 | 4" SCH80 PVC | TRENCH | COMM CABL | |
| 76 | 145 | 4" SCH80 HDPE | BORE | ELECTRIC | |
| 77 | 70 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 78 | 75 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 79 | 125 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 80 | 125 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 81 | 150 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 82 | 150 | 4" SCH80 PVC | TRENCH | ELECTRIC | |

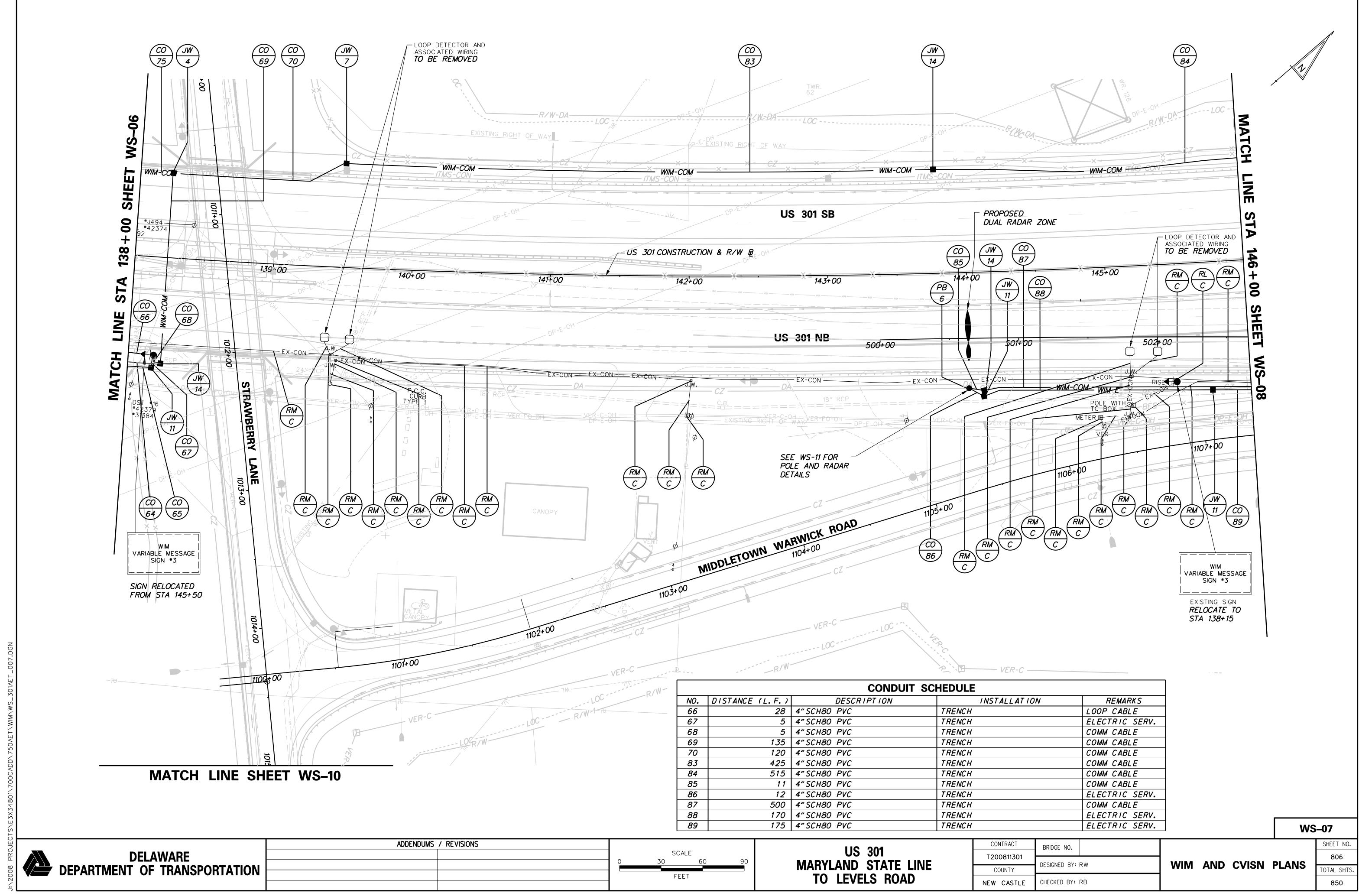


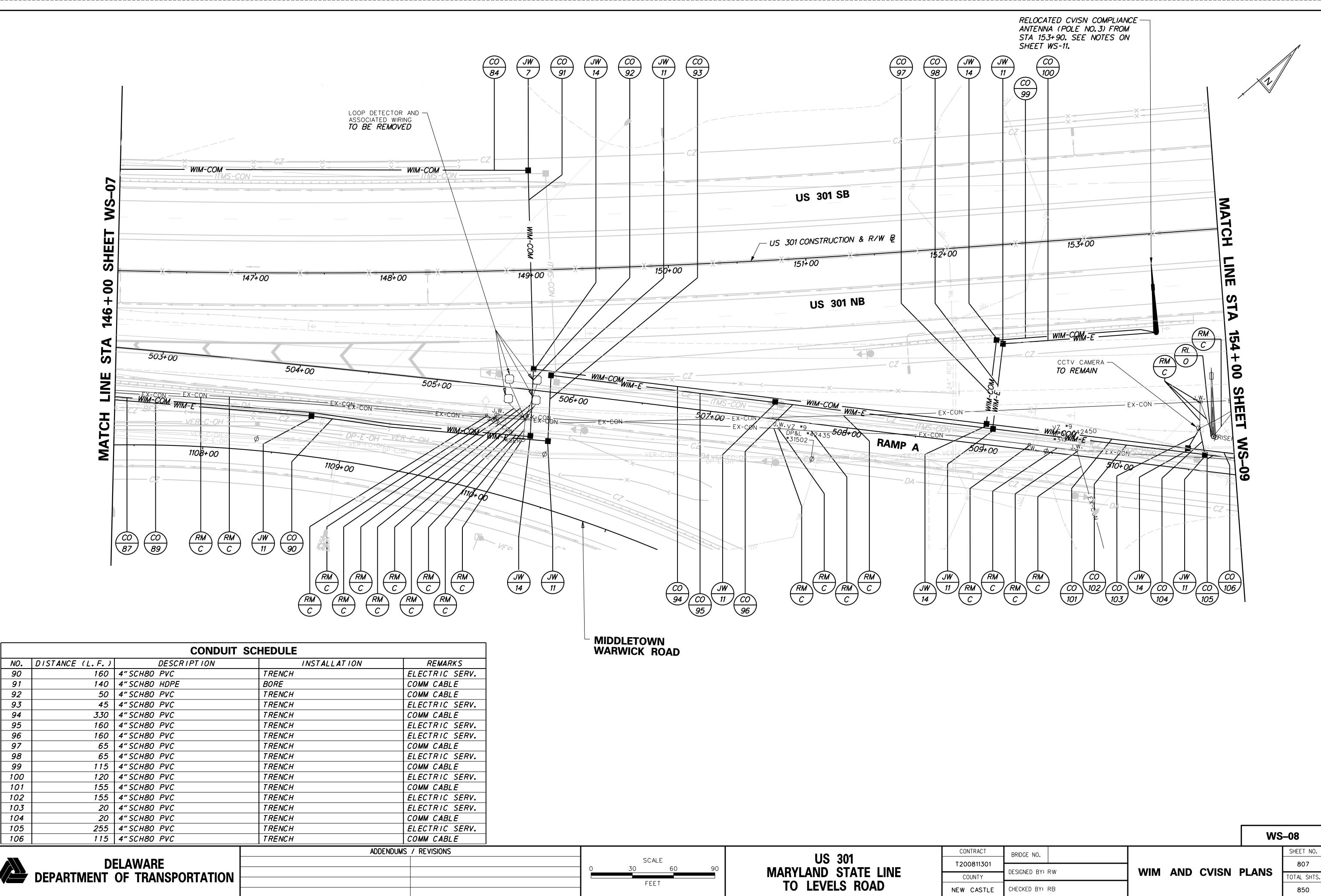
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NEW CASTLE

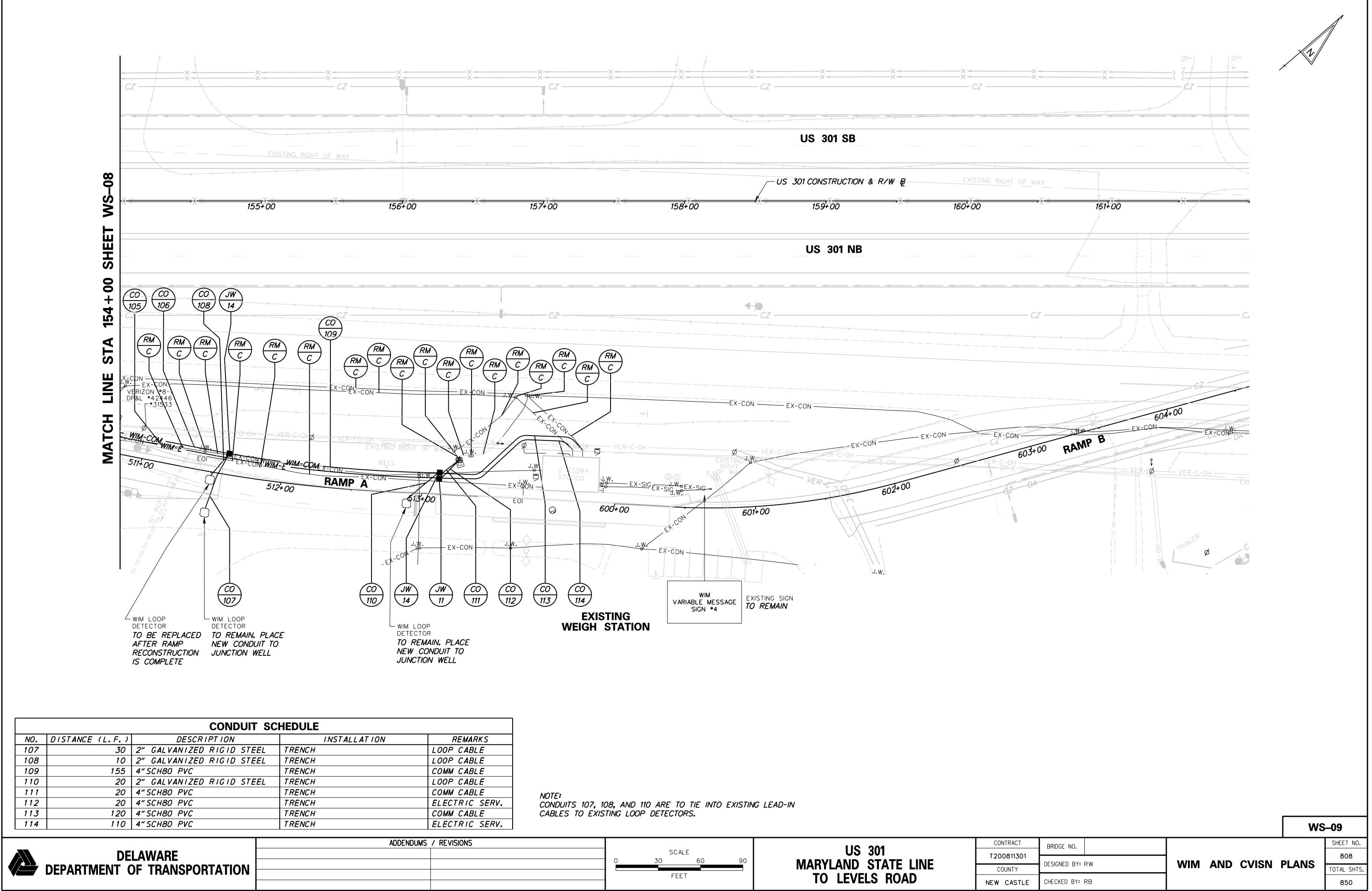
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| | | CONDU | JIT SCHEDULE | |
|-----|-----------------|---------------|--------------|-----------------------|
| NO. | DISTANCE (L.F.) | DESCRIPTION | INSTALLATION | REMAR |
| 90 | 160 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 91 | 140 | 4" SCH80 HDPE | BORE | COMM CABL |
| 92 | 50 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 93 | 45 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 94 | 330 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 95 | 160 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 96 | 160 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 97 | 65 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 98 | 65 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 99 | 115 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 100 | 120 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 101 | 155 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 102 | 155 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 103 | 20 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 104 | 20 | 4" SCH80 PVC | TRENCH | COMM CABL |
| 105 | 255 | 4" SCH80 PVC | TRENCH | ELECTRIC |
| 106 | 115 | 4" SCH80 PVC | TRENCH | COMM CABL |
| | | | A | ADDENDUMS / REVISIONS |
| | D | ELAWARE | | |
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| CONDUIT SCHEDULE | | | | | |
|------------------|-----------------|---------------------------|--------------|----------|--|
| NO. | DISTANCE (L.F.) | DESCR IPT ION | INSTALLATION | REMA | |
| 107 | 30 | 2" GALVANIZED RIGID STEEL | TRENCH | LOOP CAE | |
| 108 | 10 | 2" GALVANIZED RIGID STEEL | TRENCH | LOOP CAE | |
| 109 | 155 | 4" SCH80 PVC | TRENCH | COMM CAE | |
| 110 | 20 | 2" GALVANIZED RIGID STEEL | TRENCH | LOOP CAE | |
| 111 | 20 | 4" SCH80 PVC | TRENCH | COMM CAE | |
| 112 | 20 | 4" SCH80 PVC | TRENCH | ELECTRIC | |
| 113 | 120 | 4" SCH80 PVC | TRENCH | COMM CAE | |
| 114 | 110 | 4" SCH80 PVC | TRENCH | ELECTRIC | |

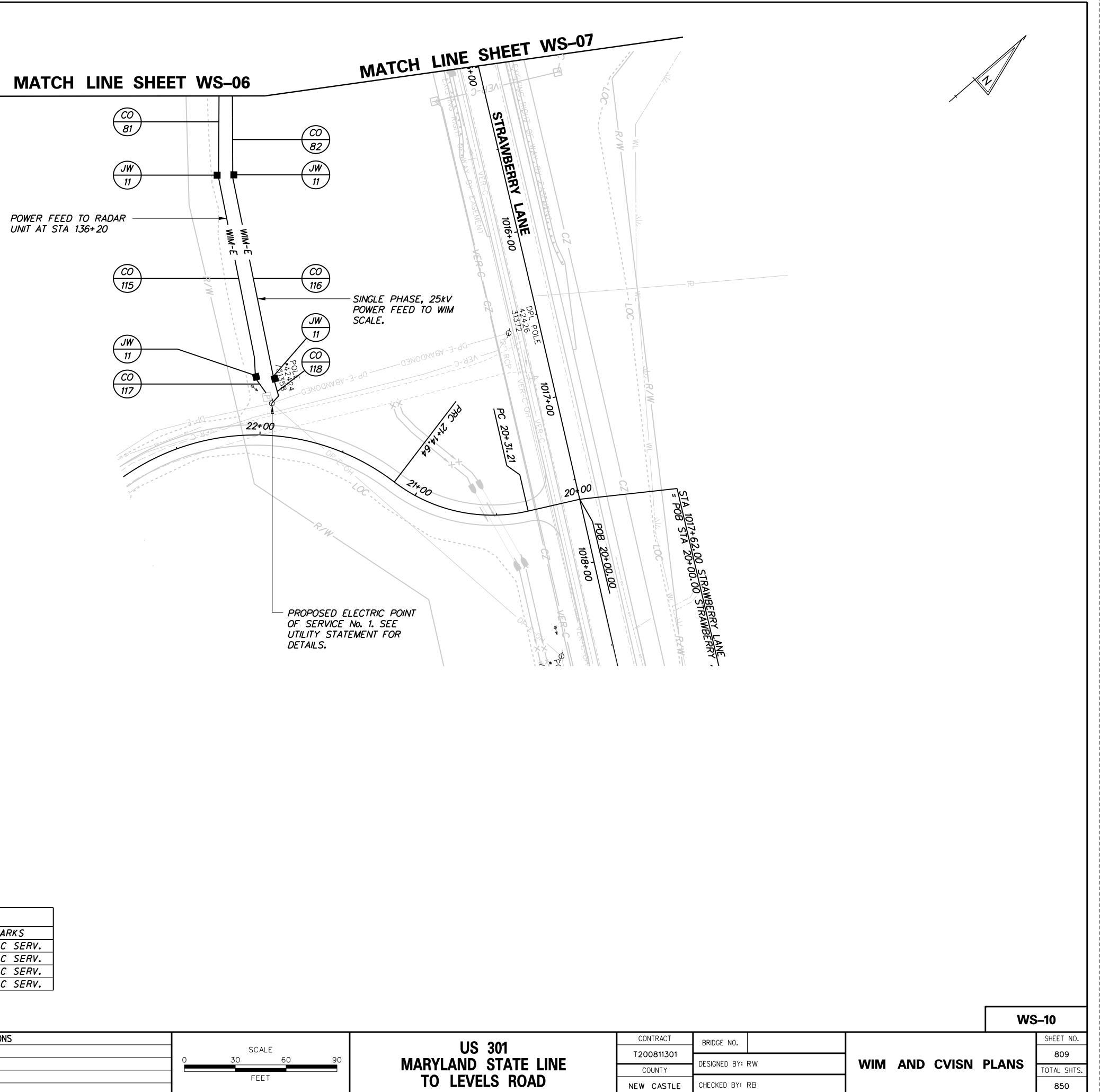


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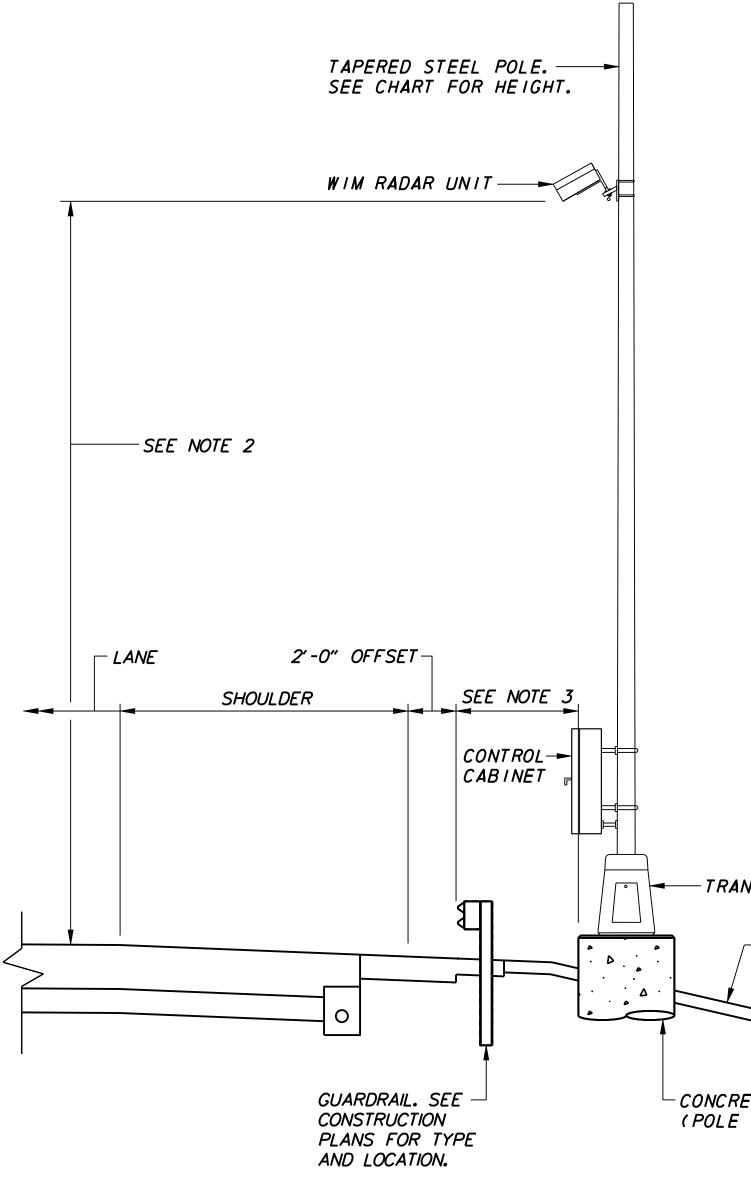
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| | | SC | ALE | | US 301 | T2 |
| | 0 | 30 | 60 | <u>9</u> 0 | MARYLAND STATE LINE - | · 2 |
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| | | FE | ET | | TO LEVELS ROAD | |
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| | CONDUIT SCHEDULE | | | | | | |
|-----|------------------|---------------------------|--------------|----------|--|--|--|
| NO. | DISTANCE (L.F.) | DESCRIPTION | INSTALLATION | REMA | | | |
| 115 | 125 | 4" SCH80 PVC | TRENCH | ELECTRIC | | | |
| 116 | 125 | 4" SCH80 PVC | TRENCH | ELECTRIC | | | |
| 117 | 15 | 4" GALVANIZED RIGID STEEL | TRENCH | ELECTRIC | | | |
| 118 | 20 | 4" GALVANIZED RIGID STEEL | TRENCH | ELECTRIC | | | |
| | | | | | | | |

| | ADDENDUMS / | / REVISIONS | | | | 110 004 | |
|------------------------------|-------------|-------------|------|-------------|----|---------------------------------------|----|
| DELAWARE | | | 0 30 | SCALE 60 | 90 | US 301 | T, |
| DEPARTMENT OF TRANSPORTATION | | | | FEET | | MARYLAND STATE LINE TO LEVELS ROAD | NF |



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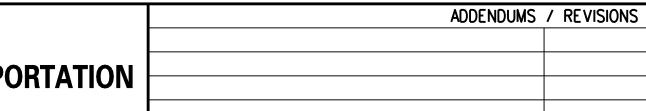


WIM RADAR SUPPORT DETAIL

| | WIM RADAR INFORMATION CHART | | | | | | |
|-----------|-----------------------------|-------------------|---------|---------|---------------------|--------------|-------------------------|
| RADAR NO. | POLE HEIGHT | POLE BASE TYPE | STATION | POLE LO | OCATION NORTHING | EASTING | REMARKS |
| 1 | - | - | 94+53 | 75′ | - | - | MOUNT TO EXISTING POLE. |
| 2 | 25′ | 6 | 97+00 | 83. 25′ | 512277.9933 | 554714.9791 | NEW INSTALLATION. |
| 3 | 25′ | 6 | 109+06 | 72.00′ | 513198.1449 | 555495. 4090 | NEW INSTALLATION. |
| 4 | 30′ | 6 | 136+20 | 76.00ʻ | 515317.9679 | 557204.9210 | NEW INSTALLATION. |
| 5 | 30' | 6 | 144+00 | 83.50′ | 516018.4142 | 557568. 3778 | NEW INSTALLATION. |

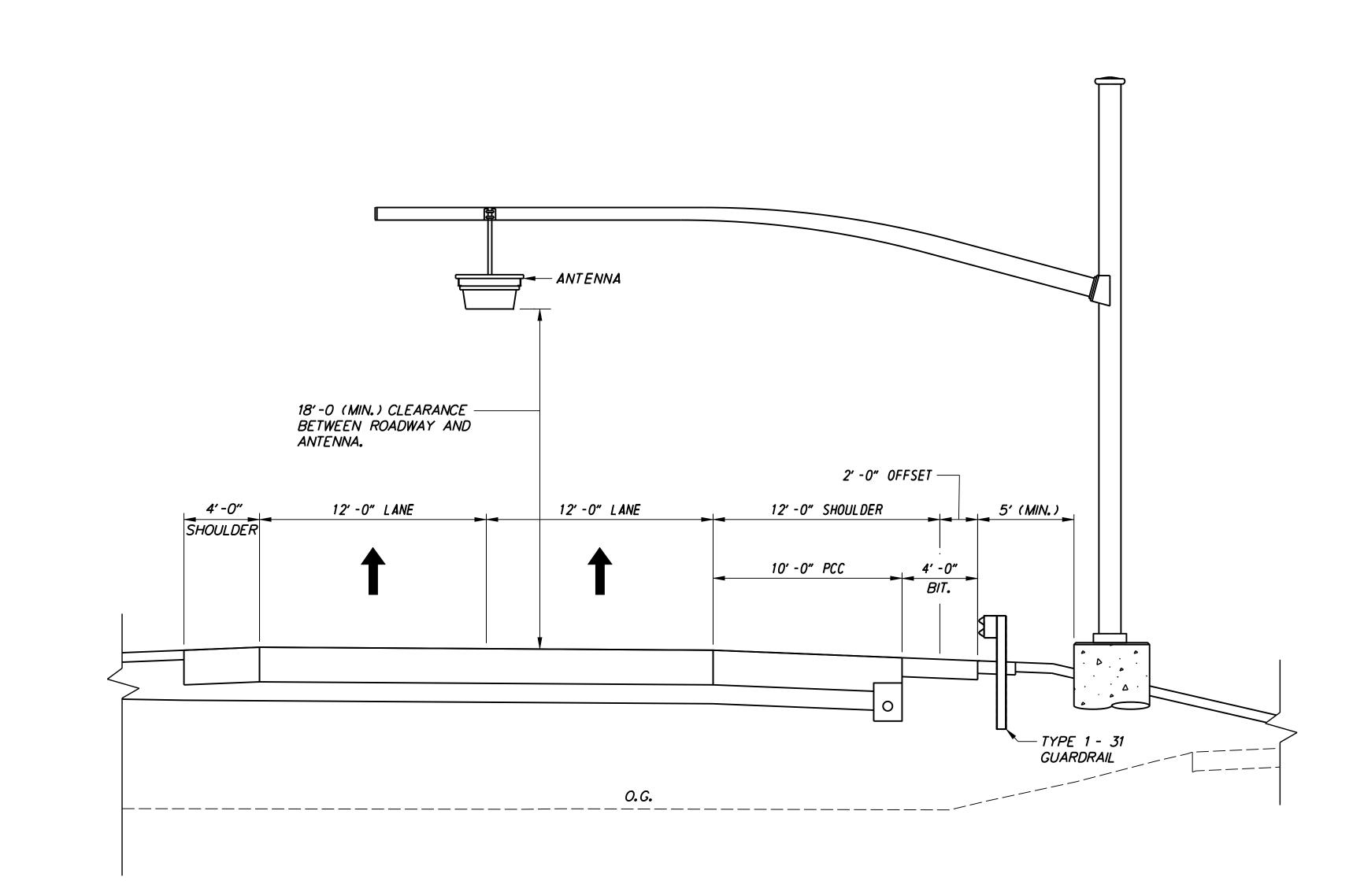
NOTES

- 1. LOCATIONS NOTED ARE GIVEN TO CENTER OF POLE.
- RADAR MOUNTING HEIGHT TO BE DETERMINED BY WIM VENDOR. 2.
- 5' (MIN.) FOR TYPE 1-31 GUARDRAIL, AND 5'-6" (MIN.) FOR TYPE 1-27 GUARDRAIL. 3.
- FURNISHING AND INSTALLATION OF RADAR UNIT AND CONTROL CABINET TO BE INCLUDED WITH ITEM 763619 WEIGH IN MOTION 4. SYSTEM (WIM).
- PROPOSED POLES AND TRANSFORMER BASES TO BE FURNISHED AND INSTALLED BY DELDOT TRAFFIC FORCES. CONTRACTOR SHALL COORDINATE WITH DELDOT TRAFFIC FORCES AT 302.222.5920 TEN (10) WORKING DAYS PRIOR TO INSTALLING POLE BASES. 5.





DELAWARE **DEPARTMENT OF TRANSPORTATION**



TRANSFORMER BASE

- FINISHED GRADE

CONCRETE FOUNDATION (POLE BASE TYPE 6)

CVISN POLE AND MAST ARM DETAIL NB US 301 STATION 153+50

NOTES

- 1. EXISTING CVISN COMPLIANCE POLE, CONTROLLER CABINET, MAST ARM, AND ANTENNA TO BE RELOCATED FROM STA 153+90 TO STA 153+50. RELOCATION AND NEW POLE BASE TO BE INCLUDED WITH ITEM 746951 RELOCATING POLE AND MAST ARM. SEE POLE BASE DETAIL ON SHEET DT-22.
- PRIOR TO PHASE 5 OF CONSTRUCTION, THE ENGINEER WILL COORDINATE THE CVISN EQUIPMENT RELOCATIONS WITH THE CONTRACTOR AND CVISN REPRESENTATIVE. 2.
- THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE CONDUIT, JUNCTION WELLS, AND POLE BASE(S) DESIGNATED TO BE REMOVED AS NOTED ON THE PLANS. THE REMOVAL OF THESE ITEMS SHALL OCCUR ONLY AFTER APPROVAL FROM THE ENGINEER. 3.
- 4. PAYMENT FOR REMOVING CONDUIT, CABLE, AND JUNCTION WELLS WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

| CVISN POLE AND MAST ARM INFORMATION CHART | | | | | |
|---|-----------------------|--------|-------------|-------------|---------------------------|
| | POLE LOCATION DEMARKS | | | | REMARKS |
| POLE NO. | STATION | OFFSET | NORTHING | EASTING | |
| 1 | 94+53 | 75′ | - | - | ANTENNA ADJUSTMENT ONLY. |
| 2 | 104+10 | 75′ | - | - | ANTENNA ADJUSTMENT ONLY. |
| 3 | 153+50 | 72.00′ | 516930.8864 | 557866.2859 | RELOCATE FROM STA 153+90. |

| | US 301 | CONTRACT | BRIDGE NO. |
|--------------|---------------------|----------------------|------------------|
| NOT TO SCALE | MARYLAND STATE LINE | T200811301 COUNTY | DESIGNED BY: RWW |
| | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: SKH |

WIM AND **CVISN DETAILS** WS-11

SHEET NO. 810 TOTAL SHTS. 850

| | | DECODIDION |
|-------------------|------------|--|
| SHEET N♀ | DRAWING Nº | DESCRIPTION |
| GENERAL | | |
| 311 | IS-06 | INDEX OF SHEETS |
| 312 | LG-03 | LEGEND |
| | | |
| | UT-46 | UTILITY CONSTRUCTION PLAN |
| ARCHITECTURAL | A-1 | |
| 314 315 | A-1 A-2 | ARCHITECTURAL LEGENDS AND ABBREVIATIONS |
| 315 | A-2 A-3 | ARCHITECTURAL PLAN, ELEVATION AND DETAILS ARCHITECTURAL WALL SECTIONS |
| STRUCTURAL | A-2 | ARCHITECTURAL WALL SECTIONS |
| STRUCTURAL 317 | ST-01 | STRUCTURAL GENERAL NOTES & ABBREVIATIONS |
| 318 | ST-02 | STRUCTURAL GANTRY PLAN |
| 319 | ST-03 | STRUCTURAL GANTRY ELEVATION |
| 320 | ST-04 | STRUCTURAL GANTRY FOUNDATION |
| 321 | ST-05 | STRUCTURAL GANTRY ELEVATION & SECTIONS |
| 322 | ST-06 | STRUCTURAL GANTRY TRUSS DETAILS I |
| 323 | ST-07 | STRUCTURAL GANTRY TRUSS DETAILS II |
| 324 | ST-08 | STRUCTURAL STRUCTURES SECTIONS & DETAILS |
| MECHANICAL | | |
| 325 | M-01 | MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES |
| 326 | M-02 | MECHANICAL HUT PLAN 301 SB |
| 327 | M-03 | MECHANICAL HUT PLAN 301 NB |
| 328 | M-04 | MECHANICAL DETAILS & SCHEDULES |
| IRE PROTECTION | N | |
| 329 | FP-01 | FIRE PROTECTION BASEMENT FLOOR PLAN, GENERAL NOTES & SYMBOL |
| 330 | FP-02 | FIRE PROTECTION HUT PLAN 301 SB |
| 331 | FP-03 | FIRE PROTECTION HUT PLAN 301 NB |
| 332 | FP-04 | FIRE PROTECTION DETAILS & SCHEDULES |
| LECTRICAL | | |
| 333 | E-01 | ELECTRICAL LEGEND, SYMBOLS, & ABBREVIATIONS |
| 334 | E-02 | ELECTRICAL SITE PLAN |
| 335 | E-03 | ELECTRICAL HUT POWER PLAN 301 SB |
| 336 | E-04 | ELECTRICAL HUT LIGHTING PLAN 301 SB |
| 337 | E-05 | ELECTRICAL HUT POWER PLAN 301 NB |
| 338 | E-06 | ELECTRICAL HUT LIGHTING PLAN 301 NB |
| 339 | E-07 | ELECTRICAL PANEL SCHEDULES |
| 340 | E-08 | ELECTRICAL PANEL SCHEDULES |
| 341 | E-09 | ELECTRICAL DETAILS |
| 342 | E-10 | ELECTRICAL LUMINAIRE SCHEDULE |
| 343 | E-11 | ELECTRICAL MAIN ONE LINE DIAGRAM |
| <u>TC</u> | | |
| 344 | | ETC LEGEND, SYMBOLS & ABBREVIATIONS |
| 345 | ETC-02 | ETC OVERALL SITE PLAN |
| 346 | ETC-03 | ETC SITE & HUT 301 SB AET CONDUIT PLAN |
| 347 | ETC-04 | ETC GANTRY CONDUIT PLAN AET SB |
| 348 | ETC-05 | ETC SITE & HUT 301 NB AET CONDUIT PLAN |
| 349 | ETC-06 | ETC GANTRY CONDUIT PLAN AET NB |

.| REVISED: 5/12/2008 50343_TOLL-PLAZA\GENERAL\XREFS\SB_A1.[

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

| S | | 110 001 | CONTRACT |
|---|--------------|-------------------------------|-----------|
| | NOT TO SCALE | US 301 MADVLAND STATE LINE | T20081130 |
| | | MARYLAND STATE LINE | COUNTY |
| | | TO LEVELS ROAD | NEW CAST |

| | | | IS-06 |
|------|-----------------|-------------|-------------|
| ACT | BRIDGE NO. | | SHEET NO. |
| 1301 | | | 811 |
| ΓY | DESIGNED BY: TD | INDEX SHEET | TOTAL SHTS. |
| STLE | CHECKED BY: BP | | 850 |

FOR INFORMATION ONLY (BY OTHERS)

EXISTING

| | DRAINAGE |
|-----------------|-------------------------------|
| 00 | DITCH OR STREAM CENTERLINE |
| | DIRECTIONAL STREAM FLOW ARROW |
| С.В. | DRAINAGE CATCH BASIN |
| J.B. | DRAINAGE JUNCTION BOX |
| D | DRAINAGE MANHOLE |
| SIZE/TYPE LABEL | DRAINAGE PIPE AND FLOW ARROW |
| | DRAINAGE PIPE HEADWALL |
| | RIPRAP - AREA FEATURE |
| 680 | RIPRAP - LINEAR FEATURE |
| | |

| MANMADE ROADSIDE FEATURES | | | | |
|---------------------------|--------------------------------|--|--|--|
| (TYPE LABEL) | CURB | | | |
| (TYPE LABEL) | CURB AND GUTTER | | | |
| ——х——— | FENCE - CHAINLINK OR STRANDED | | | |
| o | FENCE - STOCKADE OR SPLIT RAIL | | | |
| FP | FLAG POLE | | | |
| | GUARDRAIL - STEEL BEAM | | | |
| _0 | GUARDRAIL - WIRE ROPE | | | |
| L AMP © | LAMP AND POST - RESIDENTIAL | | | |
| MB | MAILBOX | | | |
| PM | PARKING METER AND POST | | | |
| | PAVEMENT - FLEXIBLE | | | |
| | PAVEMENT - RIGID | | | |
| | PILE - BRIDGE | | | |
| 0 | PILLAR OR MISCELLANEOUS POST | | | |
| $\overline{\forall}$ | TRAFFIC SIGN AND POST | | | |
| | WALL - BRICK OR BLOCK | | | |
| 00000 | WALL - STONE | | | |
| | | | | |

| SYMBOLS | | | |
|---------------|----------------------------------|--|--|
| | UTILITY | | |
| \mathbf{e} | SOIL BORING LOCATION | | |
| | UTILITY TEST HOLE LOCATION | | |
| TV | CABLE TV DISTRIBUTION BOX | | |
| E | ELECTRIC MANHOLE | | |
| EM | ELECTRIC METER | | |
| E | ELECTRIC TRANSFORMER | | |
| $\square $ | POLE MOUNTED LUMINAIRE | | |
| G | GAS MANHOLE | | |
| G.M. | GAS METER | | |
| G.V. | GAS VALVE | | |
| G.P. | GAS PUMP - SERVICE STATION | | |
| | RAILROAD TRACKS | | |
| S | SANITARY SEWER MANHOLE | | |
| S.V. | SANITARY SEWER VALVE | | |
| VENT | SANITARY SEWER VENT OR CLEANOUT | | |
| S.D.F. | SEPTIC DRAIN FIELD | | |
| В | TELEPHONE BOOTH | | |
| () | TELEPHONE MANHOLE | | |
| Τ | TELEPHONE TEST POINT | | |
| J.W. | TRAFFIC - CONDUIT JUNCTION WELL | | |
| \bigcirc | TRAFFIC - LIGHT POLE AND BASE | | |
| ٥ | TRAFFIC - PEDESTRIAN POLE & BASE | | |
| | TRAFFIC - SIGNAL CABINET & BASE | | |
| 8 | TRAFFIC - SIGNAL POLE AND BASE | | |
| U | UTILITY BOX | | |
| 0-> | UTILITY POLE GUY WIRE ANCHOR | | |
| Q | UTILITY POLE | | |
| F. H . | WATER - FIRE HYDRANT | | |
| W.M. | WATER METER | | |
| ₩.∀. | WATER VALVE | | |
| WELL | WELL HEAD | | |
| | | | |

| NATURAL ROADSIDE FEATURES | | |
|---------------------------|----------------------------------|--|
| | GRASS LAWN | |
| | HEDGEROW OR THICKET | |
| <u></u> | MARSH BOUNDARY LINE | |
| \rightarrow | TREE - CONIFEROUS | |
| | TREE - DECIDUOUS | |
| 凤 | TREE STUMP | |
| Ø | SHRUBBERY | |
| | DELINEATED WETLAND BOUNDARY LINE | |
| | WOODS LINE BOUNDARY | |

| SURVEY C | ONTROL & MONUMENTATION |
|------------------|---------------------------------|
| B.M. | SURVEY BENCHMARK LOCATION |
| T.P. | SURVEY TIE POINT LOCATION |
| \bigtriangleup | SURVEY TRAVERSE POINT |
| ۲ | POINT OF CURVATURE OR TANGENCY |
| 0 | POINT OF INTERSECTING TANGENTS |
| C.M. | PROPERTY MARKER - CONCRETE MON. |
| I.P. | PROPERTY MARKER - IRON PIPE |



ADDENDUMS / REVISIONS

| CONSTRUCTION | | | |
|--|-------------------------------------|--|--|
| | CONCRETE SAFETY BARRIER - PERMANENT | | |
| ×BFS× | BIOFILTRATION SWALE | | |
| | BUTT JOINT | | |
| 100+00 | CONSTRUCTION BASELINE | | |
| | CURB, TYPE 1 & TYPE 3 | | |
| | CURB, TYPE 2 | | |
| | CURB & GUTTER, TYPE 1 | | |
| | CURB & GUTTER, TYPE 2 | | |
| | CURB & GUTTER, TYPE 3 | | |
| | CURB & GUTTER, TYPE 4 | | |
| CZ | CLEAR ZONE | | |
| • | DRAINAGE INLET | | |
| ×× | DITCH | | |
| ° | FENCE - METAL | | |
| • • • | FENCE - WOOD | | |
| | FLARED END SECTION | | |
| <u> </u> | GUARDRAIL, TYPES 1 & 3 | | |
| <u> </u> | GUARDRAIL, TYPE 2 | | |
| • • • • • • • • • | GUARDRAIL END TREATMENT - PARALLEL | | |
| · · · · · · · · · · · · · · · · · · · | GUARDRAIL END TREATMENT - PARABOLIC | | |
| —— НС —— | HORIZONTAL CLEARANCE | | |
| - | JUNCTION BOX - DRAINAGE | | |
| <i>LOC</i> | LIMIT OF CONSTRUCTION | | |
| • | MANHOLE | | |
| | PAVEMENT PATCH | | |
| | PIPE & DIRECTIONAL FLOW ARROW | | |
| 07107407107860070860 07107407107490710749 | RIPRAP | | |
| | P.C.C. SIDEWALK @ 6" | | |
| · | UNDERDRAIN | | |
| | UNDERDRAIN OUTLET | | |
| | | | |

PROPOSED SYMBOLS CONTROL IDENTIFIERS (DS) (SW) DOWNSPOUT

| EROSIO | N & SEDIMENT |
|--|---------------------|
| - DWB - | DEWATERING BASIN |
| | EROSION CONTROL BL |
| ED / | EARTH DIKE |
| | INLET SEDIMENT CONT |
| ·===================================== | PERIMETER DIKE/SWA |
| est. | PORTABLE SEDIMENT |
| RSF | REINFORCED SILT FE |
| SB0 | SANDBAG DIKE |
| SB SB | SANDBAG DIVERSION |
| | STONE CHECK DAM |
| SCE | STABILIZED CONSTRU |
| SF | SILT FENCE |
| SP-1 | SUMP PIT, TYPE 1 |
| OF- SP-2 | SUMP PIT, TYPE 2 |
| ST | SEDIMENT TRAP |
| Ж, | SEDIMENT TRAP WITH |
| Q [−] | SEDIMENT TRAP PIPE |
| | STILLING WELL |
| | TEMPORARY SWALE |
| | TEMPORARY SLOPE L |
| | |

| | IDENTIFIERS |
|-------------|------------------------|
| A C | ADJUST BY CONTRACTOR |
| Â | ADJUST BY OTHERS |
| B | CONCRETE SAFETY BARRI |
| Ć | CURB OR CURB & GUT |
| | CONVERT TO JUNCTION BO |
| CMH | CONVERT TO DRAINAGE M. |
| \bigcirc | CURB OPENING |
| CR | CURB RAMP / TYPE |
| <u>CR-N</u> | CURB RAMP / TYPE - WIT |
| | DRAINAGE INLET |
| DND | DO NOT DISTURB |
| (FES) | FLARED END SECTION |
| (FS) | FILTRATION STRUCTURE |
| <u>CR</u> | GUARDRAIL |
| JB | JUNCTION BOX |
| | LANDSCAPE PLANTINGS |
| | MANHOLE |
| M | MONUMENT - RIGHT-OF-V |
| P | PIPE |
| (RL) C | RELOCATE BY CONTRACTO |
| RLO | RELOCATE BY OTHERS |
| RM C | REMOVE BY CONTRACTOR |
| (RM) | REMOVE BY OTHERS |
| <u></u> | SEDIMENT TRAP |
| | SILT FENCE |
| | UNDERDRAIN |
| | |

| CONSTRU | CTION PHASING SYMBOLS |
|------------------|------------------------------------|
| | BARRICADE, TYPE 3 |
| | CONCRETE SAFETY BARRIER - PORTABLE |
| | CONSTRUCTION WARNING SIGN LOCATION |
| END ROAD WORK | CONSTRUCTION WARNING SIGN |
| | CRASH CUSHION ARRAY |
| | DRUM - TRAFFIC CONTROL |
| Pur -> | PHASING TRAFFIC FLOW ARROW |
| | |

| LANDSCAPING | | | | | |
|-------------|-----------------|--|--|--|--|
| | SHRUBBERY | | | | |
| 鏺 | CONIFEROUS TREE | | | | |
| œ | DECIDUOUS TREE | | | | |

BLANKET

NTROL

NALE

TANK

ENCE

PUCTION ENTRANCE

ITH INLET AS OUTLET PE OUTLET

DRAIN

BARRIER

& GUTTER

ION BOX

AGE MANHOLE

_ WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM

T-OF-WAY

RACTOR

RS ACTOR

CHEC

| РА | VEMENT SECTION(S) |
|----|---|
| | OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS |
| | RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS |
| | DRIVEWAY AND ENTRANCE PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS |

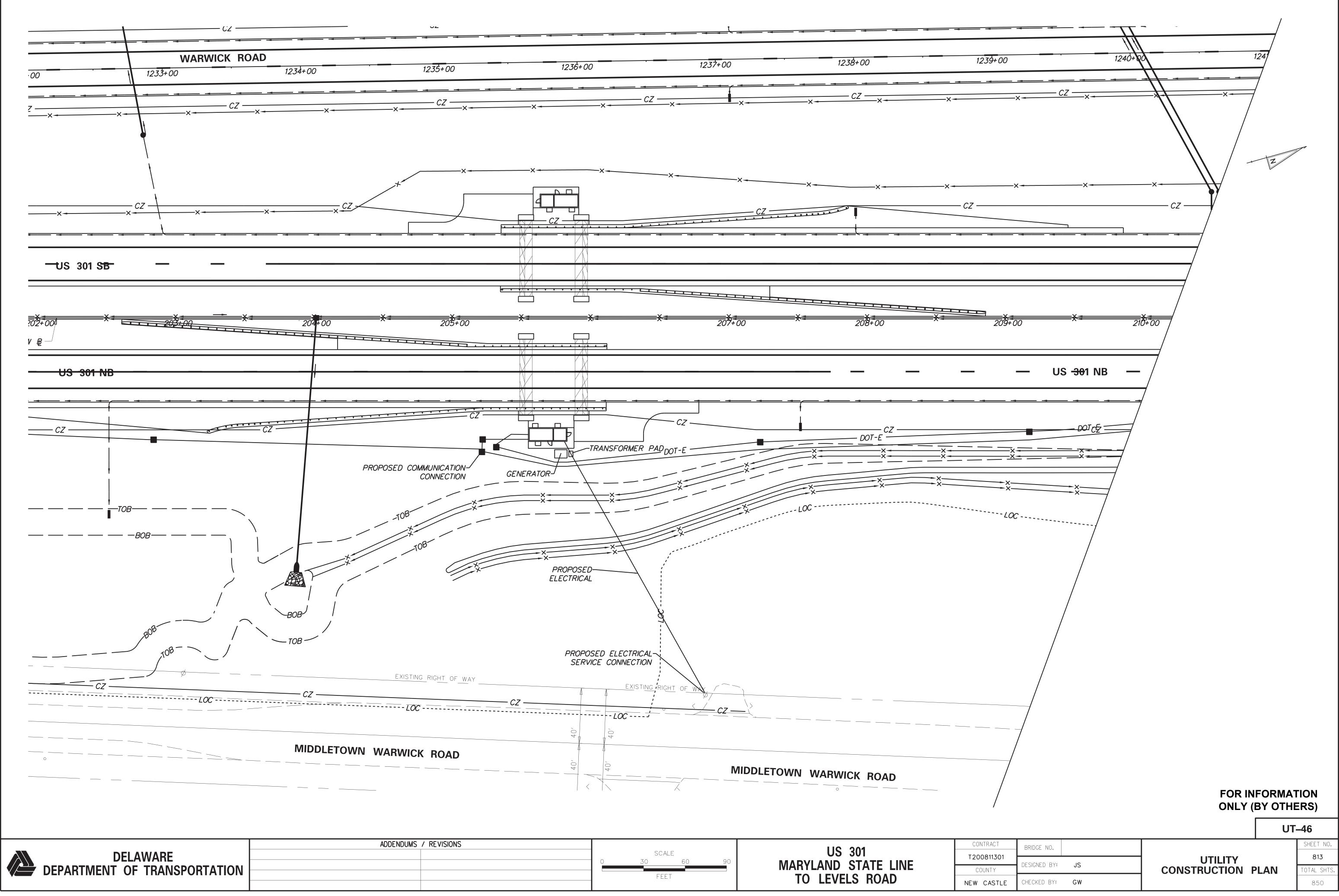
SIDEWALK

| RIGHT-OF-WAY SYMBOLS | | | | | |
|----------------------|---------------------------------|--|--|--|--|
| 0 | PROPOSED RIGHT-OF-WAY MONUMENT | | | | |
| | EXISTING PROPERTY LINE | | | | |
| — EASEMENT TYPE — | EXISTING EASEMENT | | | | |
| | EXISTING RIGHT-OF-WAY | | | | |
| DA | PROPOSED DENIAL OF ACCESS | | | | |
| —— – <i>PE</i> —— — | PROPOSED PERMANENT EASEMENT | | | | |
| —— R/W —— | PROPOSED RIGHT-OF-WAY | | | | |
| — R/W-DA — | PROPOSED R/W & DENIAL OF ACCESS | | | | |
| —— - TCE —— - | TEMPORARY CONSTRUCTION EASEMENT | | | | |
| 100+00 | PROPOSED RIGHT-OF-WAY BASELINE | | | | |
| 100+00 | HISTORIC RIGHT-OF-WAY BASELINE | | | | |

| TRAFFIC | | | | |
|---------------|-----------------------|--|--|--|
| | ITMS CONDUIT | | | |
| | SIGNAL CONDUIT | | | |
| | CONDUIT JUNCTION WELL | | | |
| · | LUMINAIRE | | | |
| \rightarrow | PAVEMENT MARKINGS | | | |
| | PAVEMENT STRIPING | | | |
| | TRAFFIC SIGN | | | |

FOR INFORMATION ONLY (BY OTHERS)

| | | LG–03 |
|-------------|--------|-------------|
| DGE NO. | | SHEET NO. |
| | | 812 |
| GNED BY: TD | LEGEND | TOTAL SHTS. |
| KED BY: BP | | 850 |

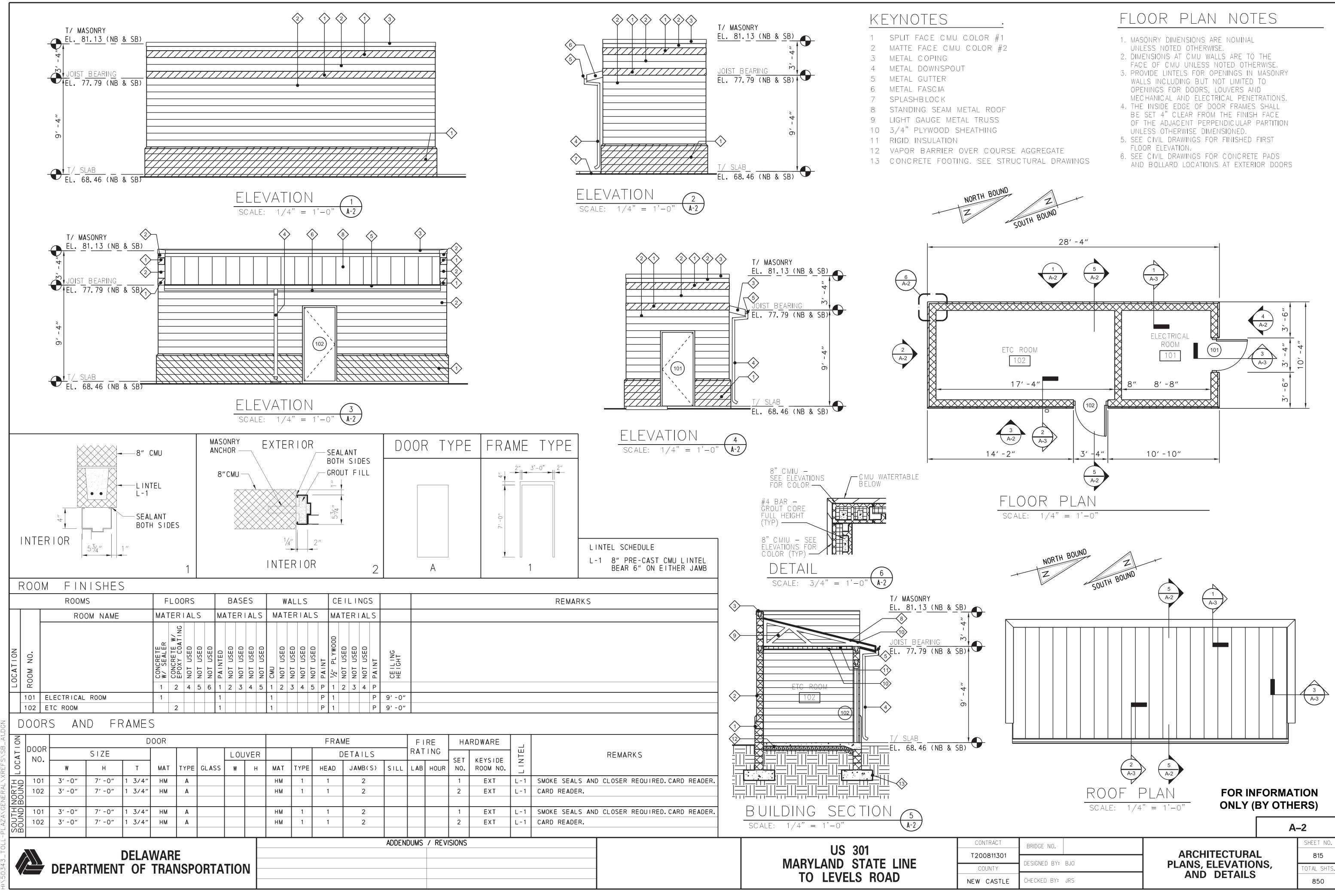


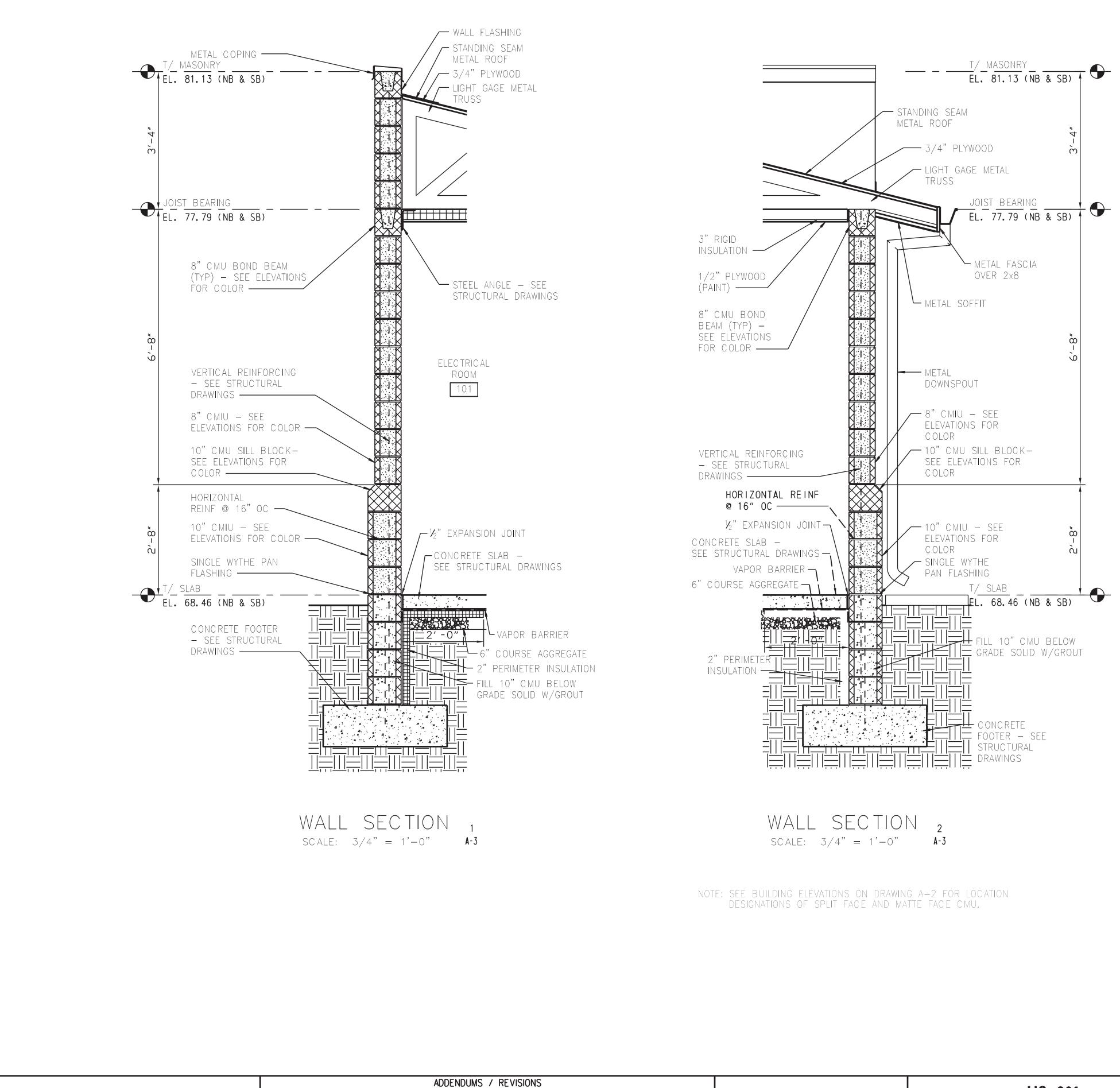
| S | SCALE 0 30 60 90 | US 301 | С Т2 |
|---|---------------------|---------------------------------------|---------|
| | FEET | MARYLAND STATE LINE TO LEVELS ROAD | NEV |

| GENERAL NOTES | ARCH | HITECTURAL ABBRE |
|---|----------------|--|
| 1. ALL WORK SHALL BE COORDINATED WITH DELDOT. | ABV AC | ABOVE AIR CONDITIONER |
| | ACST | ACOUSTIC |
| 2. COORDINATION OF WORK: THE CONTRACTOR HAS THE | ADDL | ADDITIONAL |
| RESPONSIBILTY TO COORDINATE THE WORK OF SUBCONTRACTORS TO SUIT PROJECT CONDITIONS. THE | ADJ | ADJACENT |
| CONTRACT SCOPE OF WORK SHALL INCLUDE ALL WORK | AFF | ABOVE FINISH FLOOR |
| TO PROVIDE A FINISHED CLEAN AND NEAT | AGGR | AGGREGATE ALUMINUM |
| APPEARANCE. | AL ALT | ALTERNATE |
| Z VERIEY AND COORDINATE THE LOCATION OF | ARCH | ARCHITECTURAL |
| 3. VERIFY AND COORDINATE THE LOCATION OF EQUIPMENT WITH ELECTRICAL, AND MECHANICAL | ASB | ASBESTOS |
| DRAWINGS. | ASPH | ASPHALT |
| 4. ALL DIMENSIONS SHOWN TO FACE OF | ASPHRS | ASPHALT ROOF SHINGLES |
| CMU OR CENTERLINE OF COLUMN GRID | ASSN | ASSOCIATION |
| UNLESS OTHERWISE NOTED. DIMENSIONS | ASST ASSY | ASSISTANT ASSEMBLY |
| NOTED "CLEAR" SHALL BE FROM FINISH | AVE | AVENUE |
| FACE TO FINISH FACE. | AVG | AVERAGE |
| 5. ALL DIMENSIONS SHALL BE FIELD VERIFIED | B/0 | BOTTOM OF |
| PRIOR TO FABRICATION, ERECTION, AND/OR | BALC | BALCONY |
| INSTALLATION. THE CONTRACTOR SHALL BE | BD BETW | BOARD BETWEEN |
| RESPONSIBLE FOR REMEDYING ANY DIMENSIONAL | BLDG | BUILDING |
| ERRORS IN FABRICATION, ERECTION, AND/OR | BLKG | BLOCKING |
| INSTALLATION WITHOUT ADDITIONAL COST TO | BLR | BOILER |
| THE OWNER AND WITHOUT ADDITIONAL TIME TO | BM | BEAM |
| PROJECT SCHEDULE. | BP | BASE PLATE |
| 6. FOR ALL DIMENSIONS NOT SHOWN ON FLOOR | BRDG | BRIDGING |
| PLAN REFER TO ENLARGED PLANS. | BRG BS | BEARING BOTH SIDES |
| | BSMT | BASEMENT |
| 7. ALL MASONRY DIMENSIONS, MO, ETC ARE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED. | CAB | CABINET |
| DIMENSIONS UNLESS OTHERWISE NOTED. | CAP | CAPACITY |
| 8. SEE SPECIFICATIONS FOR ALL INTERIOR | CARP | CARPET |
| AND EXTERIOR SIGNAGE REQUIREMENTS. | CDR | COILING DOOR |
| 9. FE INDICATES FIRE EXTINGUISHER. SURFACE MOUNTED | CER | CERAMIC |
| UNITS | CER TILE CI | CERAMIC TILE CAST IRON |
| 10 INTERIOR DOOR DIMENSIONS ARE TO MASONRY | CIP | CAST-IRON PIPE |
| 10. INTERIOR DOOR DIMENSIONS ARE TO MASONRY OPENINGS UNLESS OTHERWISE NOTED. | CJ | CONTROL JOINT |
| OFENINGS UNLESS UTHERWISE NUTED. | CL | CENTERLINE |
| 11. SEE MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT | CLG | CEILING |
| LOCATION OF CURB AND TYPE OF EQUIPMENT. SEE | CLO | CLOSET |
| STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS. | CLR CMIU | CLEAR CONCRETE MASONRY INSULATED UNIT |
| REQUIREMENTS. | CMU | CONCRETE MASONRY UNIT |
| 12. ALL PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF | CNCL | CONCEALED |
| THE STRUCTURAL DECK AND/OR TO BOTTOM OF TRUSS | СО | CLEANOUT |
| AND BE SEALED TIGHTLY WITH NON-COMBUSTIBLE | СОМ | COMPANY |
| SEALANT. | COL | COLUMN |
| 13. ALL CEILINGS TO RECEIVE SAME PAINT FINISH AS THE | COMP CONC | COMPOSITION CONCRETE |
| ROOM WALLS UNLESS OTHERWISE NOTED. | CONC | CONSTRUCTION |
| | CONT | CONTINUOUS |
| | CONTR | CONTRACTOR |
| | CRV | CURVED |
| | CSK | COUNTERSINK |
| | CTD | COATED |
| | CTR CUH | CENTER CABINET UNIT HEATER |
| | D | DEPTH |
| | DBL | DOUBLE |
| | DEG | DEGREE |
| | DEPT | DEPARTMENT |
| | DET | DETAIL |
| | DGL | DIAGONAL |
| | DIA DIM | DIAMETER DIMENSION |
| | DIV | DIVISION |
| | DL | DEAD LOAD |
| | DMPF | DAMPPROOFING |
| | DN | DOWN |
| | DPN DR | DEMOUNTABLE PARTITION MANUFACTURER |
| | DR | DOUR DOWNSPOUT |
| | DW | DISHWASHER |
| | DWG | DRAWING |
| | E | EAST |
| | EA | EACH |
| | EGEN | EMERGENCY GENERATOR |
| | EF EIFS | EXHAUST FAN EXTERIOR INSULATION & FINISH SYSTEM |
| | EL | ELEVATION |
| | ELEC | ELECTRICAL |
| | ELEV | ELEVATOR |
| | ENTR | ENTRANCE |
| | EPDM | ETHYLENE PROPYLENE DIENE MONOMER |
| | ETC EQ | ETCETERA EQUAL |
| | EQUIP | EQUIPMENT |
| | EWC | ELECTRIC WATER COOLER |
| | EXH | EXHAUST |
| | EXIST | EXISTING |
| | EXP | EXPANSION |
| | EXP JT | EXPANSION JOINT |
| | EXT FAB | EXTERIOR FABRICATE |
| | | |
| | | |
| | | |
| | | ADDENDUMS / REVISIONS |
| | | |

| TURAL ABBREVI. | FBD | FIBERBOARD | OSB | ORIENTED ST | RAND BOARD | (101) - DOOR I | NUMBER REFERENCE | | |
|--|---------------|--|---------------|----------------------------|--------------------------|--|----------------------------------|-------------------------------------|--|
| NDITIONER | FC | FILE CABINET | P/L | PROPERTY L | INE | | NOWBER REFERENCE | | A SECTION REFERENCE |
| TIC DNAL | FD FDN | FLOOR DRAIN FOUNDATION | PASS PERF | PASSENGER PERFORATEL |) | 101 - ROOM | NUMBER REFERENCE | A3 | DRAWING ON WHICH SECTION APPEARS |
| ENT | FDR | FIRE DOOR | PL | PLATE | | | | | ſ |
| FINISH FLOOR GATE | FE FEC | FIRE EXTINGUISHER FIRE EXTINGUISHER & CABINET | PLAS PLBG | PLASTER PLUMBING | | $\langle w_2 \rangle$ - window | V TYPE REFERENCE | | DETAIL REFERENCE |
| IUM | FHY | FIRE HYDRANT | PLYWD | PLYWOOD | | | | | |
| IATE | FIN | FINISH | PNL | PANEL | | L-1 - LINTEL | TYPE REFERENCE | | DRAWING ON WHICH DETAIL APPEARS |
| ECTURAL TOS | FL FLEX | FLASHING FLEXIBLE | PNT PORC | PAINT PORCELAIN | | | | | MULTIPLE ELEVATION REFERENCE |
| LT | FLG | FLANGE | PR | PAIR | | LVI - LOUVEF | R TYPE REFERENCE | | MULTIPLE ELEVATION REFERENCE |
| T ROOF SHINGLES | FLR | FLOOR | PREFAB | PREFABRICA | TED | | | | |
| A <i>TION</i> ANT | FLRG FP | FLOORING FIREPROOF | PROJ PSF | PROJECT POUNDS PEI | R SQUARE FOOT | (0.0) - COLUMI | N REFERENCE | | DRAWING ON WHICH ELEVATIONS APPEAR |
| 3LY | FRP | FIBERGLASS-REINFORCED | PSI | POUNDS PEI | R SQUARE INCH | | | | N |
| - :E | FT | PLASTICS FOOT | PT PTD | POINT PAINTED | | 5 - TOILET | ACCESSORY REFERENC | · · · | |
| OF | FTG | FOOTING | PTD PTN | PARTITION | | | | (43 | DRAWING ON WHICH ELEVATION APPEARS |
| 1Y | FURN | FURNITURE | PVC | POLYVINYL C | | | ON TYPE REFERENCE | | |
| N | GA GAL V | GAUGE GALVANIZED | QTF R | QUARRY-TILE RADIUS | FLOOR | INDICATES | S PARTITION HEIGHT TO CEILING | BE (| |
| G | GAR | GARAGE | RI | RISER | | | S PARTITION HEIGHT TO | | |
| VG | GEN | GENERATOR | RD | ROOF DRAIN | | UNDERSIE | DE OF STRUCTURAL DEC | CK ABOVE | LARGE SCALE PLAN/SECTION/ DETAIL REFERENCE |
| | GL GLU-LAM | GLASS GLUE-LAMINATED | REF REINF | REFRIGERATO REINFORCE | JR | | | Ň | DETAIL REFERENCE |
| LATE | GOVT | GOVERNMENT | REQD | REQUIRED | | - ELEVAT | TION INDICATION | | A401 DRAWING ON WHICH LARGE SCALE |
| G | GR | GRADE GROUND | RET | RETURN | | | | | DRAWING ON WHICH LARGE SCALE |
| G SIDES | GRD GVL | GRAVEL | REV REG | REVISION REGISTER | | <u>/0</u> - REVISIO | ON REFERENCE | | |
| ENT | GWB | GYPSUM WALLBOARD | RFG | ROOFING | | | | | |
| Τ ΓΥ | GYP H | GYPSUM HIGH | RH RM | RIGHT HAND ROOM | | | ON CLOUD | * | - NORTH ARROW REFERENCE |
| Γ | HCP | HANDICAP | RWC | | CONDUCTOR | | | | \checkmark |
| DOOR | HDWE | HARDWARE | S | SOUTH | | | | · | |
| IC IC TILE | HM HMD | HOLLOW METAL HOLLOW METAL DOOR | SAPC SB | SUSPENDED SOUTH BOUI | ACOUSTICAL PANEL CEILING | MATERIALS | | | |
| RON | HORIZ | HORIZONTAL | SCHED | SCHEDULE | | | LLGLIND | | |
| RON PIPE | HPT | HIGH POINT | SDG | SIDING | | | | | |
| DL JOINT RLINE | HT HTR | HEIGHT HEATER | SEC SF | SECTION SQUARE FOO |)T | — ВRIСК | | — STEEL | - CONCRETE - PLYWOOD |
| | HVAC | HEATING, VENTILATING, & | SGFT | | GLAZED FACING TILE | | | 林林林林林林林 林林林林 | |
| | 10 | AIR CONDITIONING | SH | SHOWER | | СМИ | | — ALUMINUM | - GYP BD / GROUT - ACOUSTICA PANEL |
| TE MASONRY INSULATED UNIT | IE IE | INSIDE DIAMETER THAT IS | SHM SHT | SHEET | OLLOW METAL | ACOUSTICAL O | | — FINISH | - BATT INSULATION TILE |
| TE MASONRY UNIT | IH | INTAKE HOOD | SI | | AL SYSTEM OF UNITS | - ACOUSTICAL (| | | |
| LED UT | IN INSUL | INCH INSULATION | SIM SKY | SIMILAR SKYLIGHT | | СМІИ | | - DIMENSIONAL | — RIGID INSULATIONOSB |
| lY | INTR | INTERIOR | SLDR | SLIDING DOO | R | | | LUMBER | |
| | JST | JOIST | SMLS | SEAMLESS | | $\left\langle \left\langle \left$ | | - SHIM | – COARSE EARTH |
| SITION TE | JT LAB | JOINT LABORATORY | SPA SPEC | SPACED SPECIFICATIC |)N | GLAZED CMU | | radadad | AGGREGATE / |
| RUCTION | LAM | LAMINATE | SPKLR | SPRINKLER | | | | | BALLAST |
| JOUS | LAV | LAVATORY | SPKR | SPEAKER | | CODE CRITER | | REFERENCES ARE FROM THE INTER | |
| CTOR | LG LH | LENGTH LEFT HAND | SQ SS | SQUARE STAINLESS S | STEEL | CODE CRITER | TA ALL CODE | REFERENCES ARE FROM THE INTER | VATIONAL BUILDING CODE 2006 |
| RSINK | LIB | LIBRARY | STD | STANDARD | | DESCRIPTION | CODE REFERENC | CE REQUIREMENT | PROVIDED |
| | LIN | LINEAR LIVE LOAD | STL STOR | STEEL STORAGE | | GENERAL | | | |
| UNIT HEATER | LL LLH | LONG LEG HORIZONTAL | STOR | STORAGE STRUCTURE/ | STRUCTURAL | USE GROUP SIMILAR TO: | 312.1 | UTILITY AND MISCELLANEOU | US GROUP (U) UTILITY AND MISCELLANEOUS GROUP (|
| | LLV | LONG LEG VERTICAL | STWY | STAIRWAY | | CONSTRUCTION TYPE: | TABLES 601 | TYPE 2-B | TYPE 2-B |
| | LPT LT | LOW POINT LIGHT | SUPT SUPVR | SUPERINTEN SUPERVISOR | | NO. OF STORIES | TABLE 503 | 2 STORIES (MAX) | 1 STORY |
| MENT | LWC | LIGHTWEIGHT CONCRETE | SURF | SURFACE | | BUILDING AREA | TABLE 503 | 8,500 SF (MAX) | 293 SF |
| | MAINT | MAINTENANCE | SUSP | | SUSPENSION | SPECIAL REQUIREMENTS | CHAPTER 4 - N/A | | |
| NL F.R | MAS MATL | MASONRY MATERIAL | SYS T | SYSTEM TREAD | | SPRINKLERED | DELAWARE STATE | NOT REQUIRED | CLEAN AGENT FIRE SUPRESSION SYSTE |
| ON | MAX | MAXIMUM | Τ/Ο | TOP OF | | | FIRE PREVENTION | REG. | PROVIDED FOR ETC ROOM |
| ı OAD | MECH MEMB | MECHANICAL MEMBRANE | T&B T&G | TOP AND BO TONGUE AND | | FIRE ALARM SYSTEM | 907 | FIRE ALARM | FIRE ALARM |
| OAD ROOFING | MEZZ | MEMBRANE MEZZANINE | TAN | TONGUE ANL TANGENT | | FIRE RESISTANCE RATING | | NOT REQUIRED | PROVIDED |
| | MFR | MANUFACTURER | TDD | TELECOMMUN | ICATION DISPLAY DEVICE | BUILDING ELEMENTS | | | |
| ITABLE PARTITION MANUFACTURER | MGR MH | MANAGER MANHOLE | TEL TEMP | TELEPHONE TEMPORARY | | 1. STRUCTURAL FRAME | TABLE 601 | 0 HOURS | 0 HOURS |
| OUT | MIL | MILITARY | TER | TERRAZZO | | 2. BEARING WALLS | TABLE 601 | 0 HOURS | 0 HOURS |
| SHER | MIN | MINIMUM | THRU | THROUGH | | 3. NON BEARING WALLS 4. FLOOR CONSTRUCTION | TABLE 601 TABLE 601 | 0 HOURS 0 HOURS | 0 HOURS 0 HOURS |
| | MISC MET | MISCELLANEOUS METAL | TLT TRTD | TOILET TREATED | | 4. FLOOR CONSTRUCTION 5. ROOF CONSTRUCTION | TABLE 601 TABLE 601 | 0 HOURS 0 HOURS | 0 HOURS 0 HOURS |
| | ML | METAL LATH | TYP | TYPICAL | | OTHER ELEMENTS | | | |
| NCY GENERATOR | MLDG | MOLDING | UNO | | ED OTHERWISE | 1. SHAFT ENCLOSURES | 707 | N/A | |
| T FAN IR INSULATION & FINISH SYSTEM | MLP MO | METAL LATH AND PLASTER MASONRY OPENING | VAT VCT | VINYL ASBES VINYL COMPO | | 2. EXIT ENCLOSURES | 1020.1 | N/A | |
| ON | MOD | MOTOR OPERATED DAMPER | VEND | VENDING MA | | | | | |
| CAL | MTG | MOUNTING | VERT | VERTICAL | | | | | |
| DR CE | N NA | NORTH NOT APPLICABLE | VIF VTR | VERIFY IN F VENT THRU | | | | | |
| E PROPYLENE DIENE MONOMER | NB | NORTH BOUND | W | WEST | | | | | |
| A | NIC | NOT IN CONTRACT | WI W/Z | WIDE | | | | | |
| NT | NO NRC | NUMBER NOISE-REDUCTION COEFFICIENT | W/ W/O | WITH WITHOUT | | | | | |
| WATER COOLER | NTS | NOT TO SCALE | WBD | WALLBOARD | | | | | |
| r | OA OC | OVERALL | WC WD | WATER CLOS | ΈT | | | | |
| ON | OC OD | ON CENTER OUTSIDE DIAMETER | WD WDR | WOOD WOOD DOOR | | | | | |
| ON JOINT | OFF | OFFICE | WH | WATER HEAT | | | | | |
| R | OH | OPPOSITE HAND | WTRPRF | WATERPROOF | | | | | FOR INFORMATION |
| ΤΕ | OHDR OPNG | OVERHEAD DOOR OPENING | WWF XFMR | WELDED WIR TRANSFORME | | | | | ONLY (BY OTHERS) |
| | OPP | OPPOSITE | 232 IV(I) | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | | | A–1 |
| ADDENDUMS / REVISIONS | | I | | | | | CONTRACT | | SHEE |
| | | ——————————————————————————————————————— | | | 11 | 5 301 | | BRIDGE NO. | |
| | | | | | | | T200811301 | | - AKCHITECTURAL 81 |
| | | I | | I | ΜΔΡΥΓΛΝΓ | STATE LINE | | DESIGNED BY: DRF | I FGENDS SYMBOLS |
| | | | | | |) STATE LINE ELS ROAD | COUNTY | DESIGNED BY: DRE CHECKED BY: JRS | AND ABBREVIATIONS |

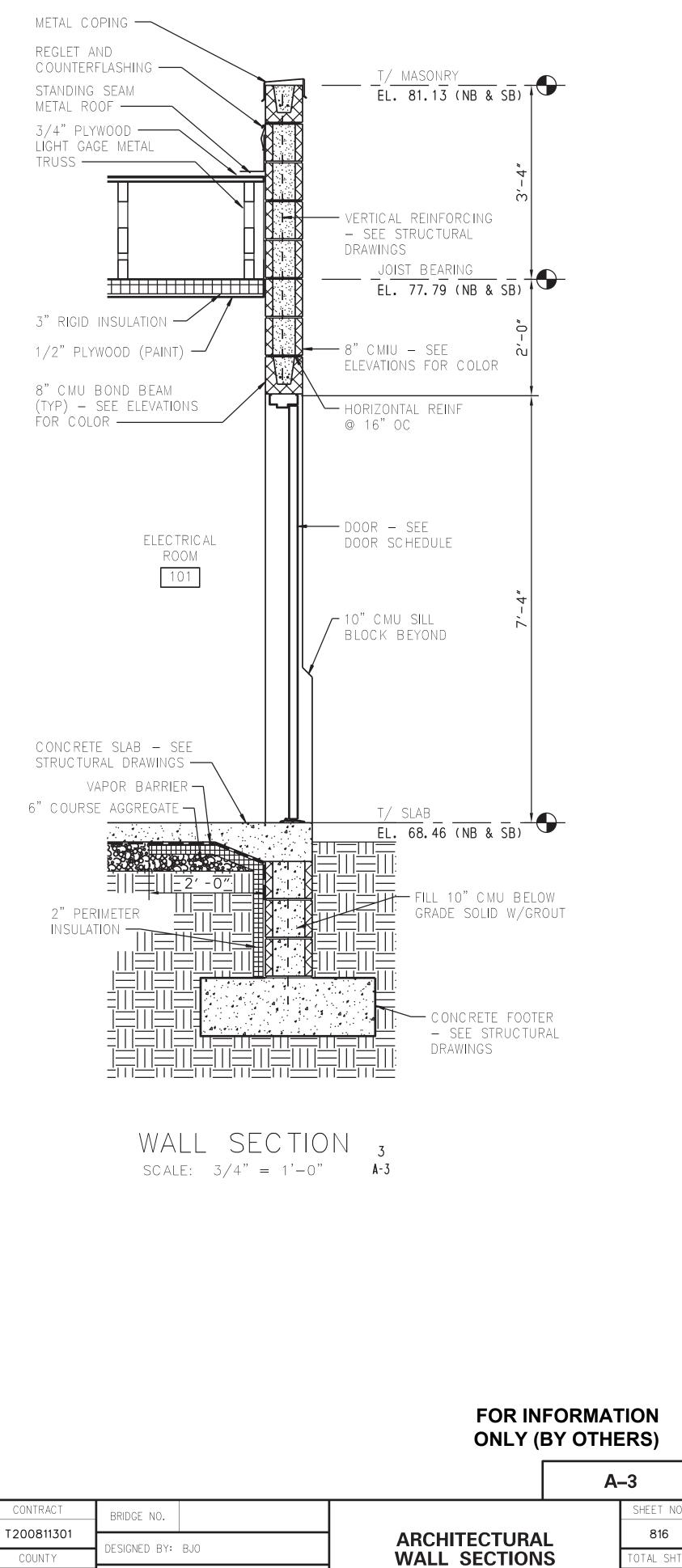
| US | 301 | |
|----------|--------|------|
| MARYLAND | STATE | LINE |
| TO LEVE | LS ROA | ١D |





DELAWARE **DEPARTMENT OF TRANSPORTATION**

| NS | 110.004 | CONTRACT |
|----|---------------------|------------|
| | | T200811301 |
| | MARYLAND STATE LINE | COUNTY |
| | TO LEVELS ROAD | NEW CASTLE |



CHECKED BY: JRS

OTAL SHTS 850

| GENERAL | STRUCTURAL | NOTES: |
|---------|------------|--------|
| | | |

<u>GENERAL</u>

- 1. THE STRUCTURE IS DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR SHALL DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES, INCLUDING UPLIFT, ON THE STRUCTURE DURING CONSTRUCTION.
- 2. WORK SHALL BE COORDINATED WITH THE VARIOUS TRADES TO AVOID CONFLICT OR INTERFERENCE WITH REINFORCING STEEL OR STRUCTURAL STEEL MEMBERS.
- 3. THE LOCATION OF ALL AERIAL FACILITIES SHALL BE IDENTIFIED IN THE FIELD BEFORE CONSTRUCTION COMMENCES AND PSE&G PROXIMITY REQUIREMENTS ADHERED TO.

DESIGN CRITERIA

1. APPLICABLE CODES AND SPECIFICATIONS IBC 2006 W/ NEW CASTLE COUNTY CODE ASCE 7-05, MINIMUM BUILDING LOADS - AS APPLICABLE AISC 360-05, MANUAL OF STEEL CONSTRUCTION - LOAD AND RESISTANCE FACTOR DESIGN ACI 318-05, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY

<u>GANTRY NOTES:</u>

- PROVIDE MATERIALS AND WORKMANSHIP IN THE ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, ANSI/AASHTO/AWS/D1.5-2002 BRIDGE WELDING CODE AND CONTRACT SPECIAL PROVISIONS. USE ANSI/AWS/D1.1-2002 FOR WELDING NOT COVERED IN ANSI/AASHTO/AWS/D1.5-2002.
- 2. DESIGN SPECIFICATIONS: AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 2009, 5TH EDITION.
- 3. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- 4. USE CLASS A CEMENT CONCRETE I'C = 3000 PSIIN PEDESTALS AND FOOTINGS.
- 5. CHAMFER EXPOSED CONCRETE EDGES 1" X 1" EXCEPT AS NOTED.
- 6. PROVIDE A MINIMUM OF 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- 7. PROVIDE GRADE 60 REINFORMENT BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A 615-96A FOR CONCRETE REINFORCEMENT. DO NOT WELD REINFORCEMENT BARS.
- 8. USE UNCOATED REINFORCEMENT BARS.
- 9. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTH OF 20 DIAMETERS OR IN ACCORDANCE WITH AASHTO.
- 10. PROVIDE ANCHOR BOLT HOLES 1/4" LARGER THAN BOLT DIAMETER FOR BASE PLATE. PROVIDE BOLT HOLES 1/6" LARGER THAN BOLT DIAMETER FOR ANCHOR PLATE.
- 11. USE TEMPLATES TO ACCURATELY SET BASE PLATE ANCHOR BOLTS TO CORRECT ELEVATION AND ALIGNMENT. SECURELY BRACE ANCHOR BOLTS AGAINST DISPLACEMENT BEFORE PEDESTAL CONCRETE IS PLACE AND DURING CONCRETE CURING.
- 12. GROUT PADS SHALL NOT BE USED. BASE PLATES AND EXPOSED ANCHOR BOLTS SHALL BE PLACED SO RUN-OFF AND/OR RAIN WATER CANNOT RUN ONTO OR POND AT THIS AREA.
- 13. PROVIDE DOUBLE NUTS AND WASHERS FOR EACH ANCHOR BOLT.
- 14. GALVANIZED HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO M164/ASTM A325.
- 15. GALVANIZED HEAT TREATED NUTS SHALL CONFORM TO AASHTO M292/ASTM A1494 OR AASHTO M291/ASTM A563 GRADE 2H, DH. GALVANIZED HARDENED STEEL WASHERS SHALL CONFORM TO AASHTO M293/ASTM F436.
- 16. GALVANIZED ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55.
- 17. FOOTINGS WILL BE POURED AGAINST FILL COMPACTED TO 98% RELATIVE MAXIMUM DENSITY OR ON UNDISTURBED MATERIAL.
- 18. DIVERT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING SO THAT EXCAVATIONS ARE DRY ENOUGH FOR INSPECTION AND CONSTRUCTION.
- 19. COORDINATE, LOCATE AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH DELDOT UTILITIES MANUAL.
- 20. VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE DEPARTMENT DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE AND LOCATION OF ANY UTILITY.

| Ø | ΑΤ |
|--------------|-----------------------|
| AL. OR ALUM. | ALUMINUM |
| APPROX. | APPROXIMATE |
| B/B | ΒΑϹΚ ΤΟ ΒΑϹΚ |
| BOTT. | BOTTOM |
| B/ | BOTTOM OF |
| BTWN | BETWEEN |
| CJ | CONSTRUCTION JOINT |
| C/C | CENTER TO CENTER |
| CIR | CIRCULAR |
| Ę | CENTERLINE |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| CONC. | CONCRETE |
| CONST. | CONSTRUCTION |
| CONT | CONTINUOUS |
| DIA. | DIAMETER |
| EA. | EACH |
| EF | EACH FACE |
| EL OR ELEV | ELEVATION |
| EMBED. | EMBEDMENT |
| EQ. | EQUAL |
| EQUIP. | EQUIPMENT |
| EW | EACH WAY |
| EXIST | EXISTING |
| EXP. | EXPANSION |
| EXT. | EXTERIOR |
| FD | FLOOR DRAIN |
| FIN. | FINISHED |
| FLR. | FLOOR |
| FT | FEET |
| FTG. | FOOTING |
| HORIZ. | HORIZONTAL |
| HP | HIGH POINT |
| I. D. | INSIDE DIAMETER |
| INT. | INTERIOR |
| JT. | JOINT |
| KSF | THOUSAND POUNDS PER S |
| | |

| NS | | | 100 |
|----|---|---------------------|-----|
| | | US 301 | Т20 |
| | | MARYLAND STATE LINE | C(|
| | | TO LEVELS ROAD | |
| | 1 | | NEW |

STRUCTURAL ABBREVIATIONS

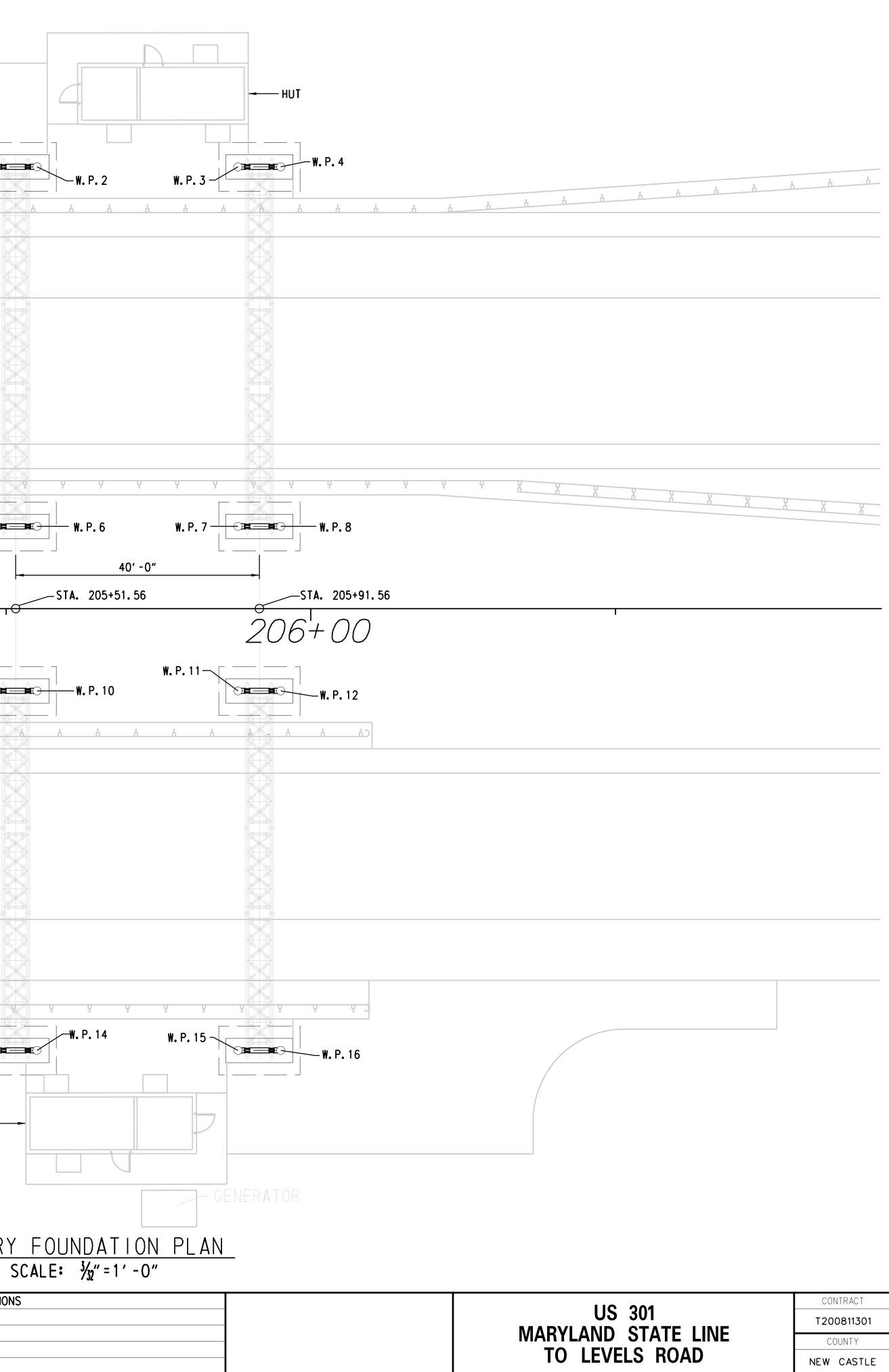
| LG. | LONG |
|-----------------------|------------------------|
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LP | LOW POINT |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| NO. | NUMBER |
| N. T. S. | NOT TO SCALE |
| 0/C | ON CENTER |
| 0.D. | OUTSIDE DIAMETER |
| OPP. | OPPOSITE |
| Æ | PLATE |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| R | RISER |
| RAD. | RADIUS |
| REINF. | REINFORCEMENT |
| REQ'D | REQUIRED |
| SC | SLIP CRITICAL |
| SCH | SCHEDULE |
| SF | SQUARE FOOT |
| SIM | SIMILAR |
| SPA. | SPACES |
| SQ. | SQUARE |
| S . S . | STAINLESS STEEL |
| ST | STRUCTURAL TUBE |
| STD . | STANDARD |
| Τ | TREAD |
| T&B | TOP AND BOTTOM |
| T/ | TOP OF |
| TYP. | TYPICAL |
| U. N. O. | UNLESS NOTED OTHERWISE |
| W/ | WITH |
| WWF | WELDED WIRE FABRIC |
| | |

SQUARE FOOT

| ONTRACT | BRIDGE NO. | | | | SHEET NO. |
|-----------|--------------|-----|---------------|----------|-------------|
| 200811301 | | | STRUCTURAL | | 817 |
| .00811301 | DESIGNED BY: | ٨B | GENERAL NOTE | S | 617 |
| COUNTY | DESIGNED DI. | AD | & ABBREVIATIO | _ | TOTAL SHTS. |
| V CASTLE | CHECKED BY: | CAM | | NO NO | 850 |

ST-01

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| | GAN |
| | ADDENDUMS / RE |
| DELAWARE DEPARTMENT OF TRANSPORTATION | |



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| WORKING POINT COORDINATES | | | | |
|---------------------------|-------------|--------------|-----------|-----------|
| WORKING POINTS | NORTHING | EASTING | STATION | OFFSET |
| W.P. 1 | 517595.9129 | 573133.8094 | 205+48.06 | 72.50 LT. |
| W.P. 2 | 517602.6524 | 573135.7013 | 205+55.06 | 72.50 LT. |
| W.P. 3 | 517634.4243 | 573144.6204 | 205+88.06 | 72.50 LT. |
| W.P. 4 | 517641.1637 | 573146.5123 | 205+95.06 | 72.50 LT |
| W.P. 5 | 517579.9667 | 573190.6136 | 205+48.06 | 13.50 LT. |
| W.P. 6 | 517586.7062 | 573192.5055 | 205+55.06 | 13.50 LT. |
| W.P. 7 | 517618.4780 | 573201.4246 | 205+88.06 | 13.50 LT. |
| W.P. 8 | 517625.2175 | 573203. 3165 | 205+95.06 | 13.50 LT. |
| W.P. 9 | 517572.6715 | 573216.6005 | 205+48.06 | 13.50 RT. |
| W.P. 10 | 517579.4110 | 573218.4925 | 205+55.06 | 13.50 RT. |
| W.P. 11 | 517611.1829 | 573227.4116 | 205+88.06 | 13.50 RT. |
| W.P. 12 | 517617.9223 | 573229.3035 | 205+95.06 | 13.50 RT. |
| W.P. 13 | 517556.7253 | 573273.4047 | 205+48.06 | 72.50 RT. |
| W.P. 14 | 517563.4648 | 573275.2967 | 205+55.06 | 72.50 RT. |
| W.P. 15 | 517595.2366 | 573284.2158 | 205+88.06 | 72.50 RT. |
| W.P. 16 | 517601.9761 | 573286.1077 | 205+95.06 | 72.50 RT. |

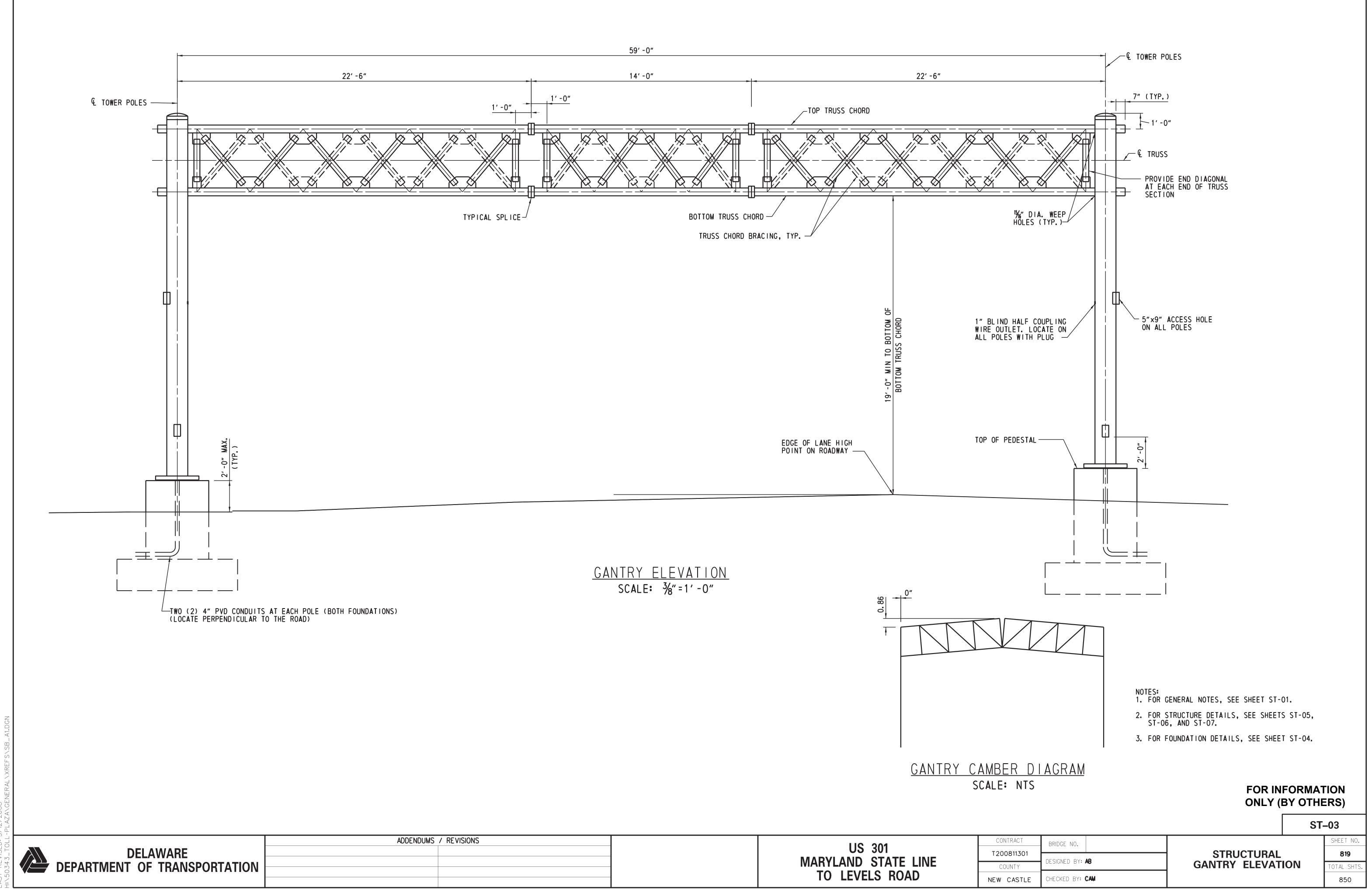
NOTES: 1. FOR GENERAL NOTES, SEE SHEET ST-01. 2. FOR FOUNDATION DETAILS, SEE SHEET ST-04.

| TRACT | BRIDGE NO. | CTRUCTURAL |
|---------|-----------------|-------------------|
| 0811301 | | STRUCTURAL |
| 011301 | DESIGNED BY: AB | GANTRY FOUNDATION |
| UNTY | | PLAN |
| CASTLE | CHECKED BY: CAM | |

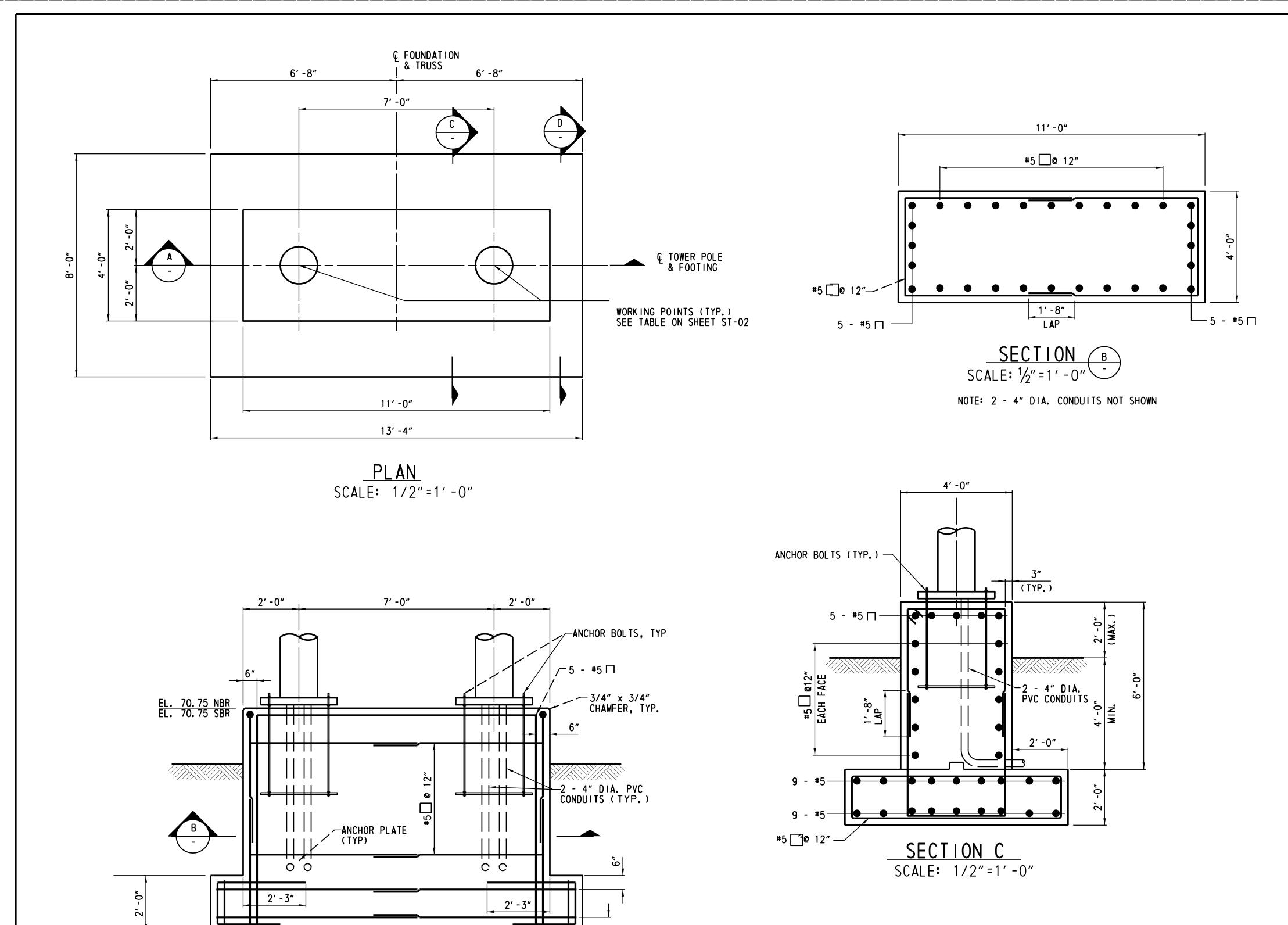
| ST-02 |
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SHEET NO. 818

fotal shts



| 5 | 110 004 | C |
|---|---------------------|--|
| | US 301 | Т2 |
| | MARYLAND STATE LINE | |
| | TO LEVELS ROAD | `````````````````````````````````````` |
| | | NEW |







6″____

11"

2' - 3"

ADDENDUMS / REVISION

11"

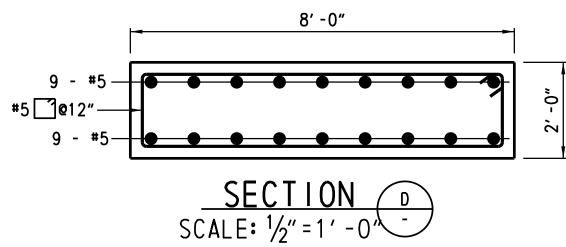
2' - 3"

" 0

6"

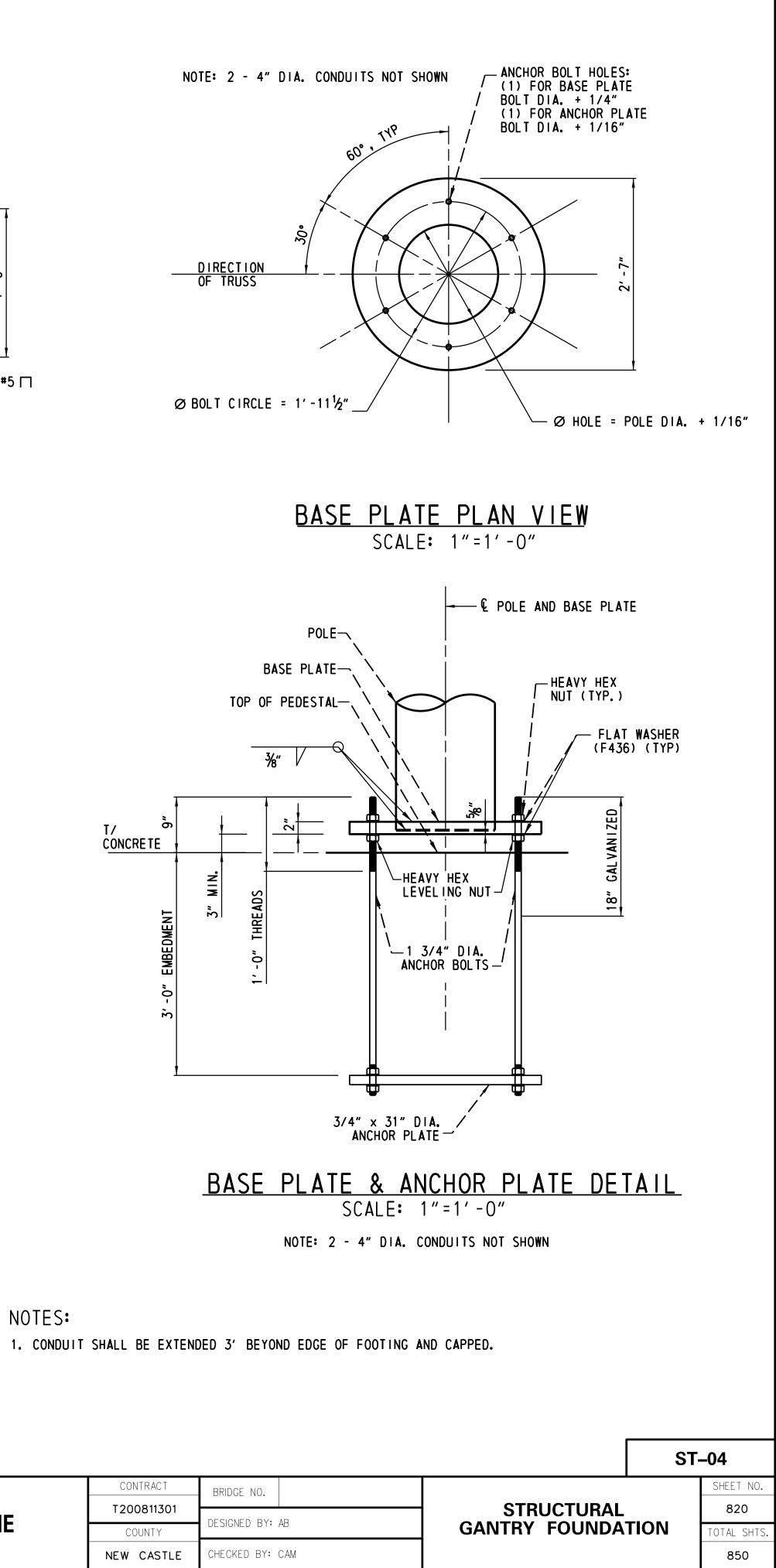
#5 🗌 @ 12"

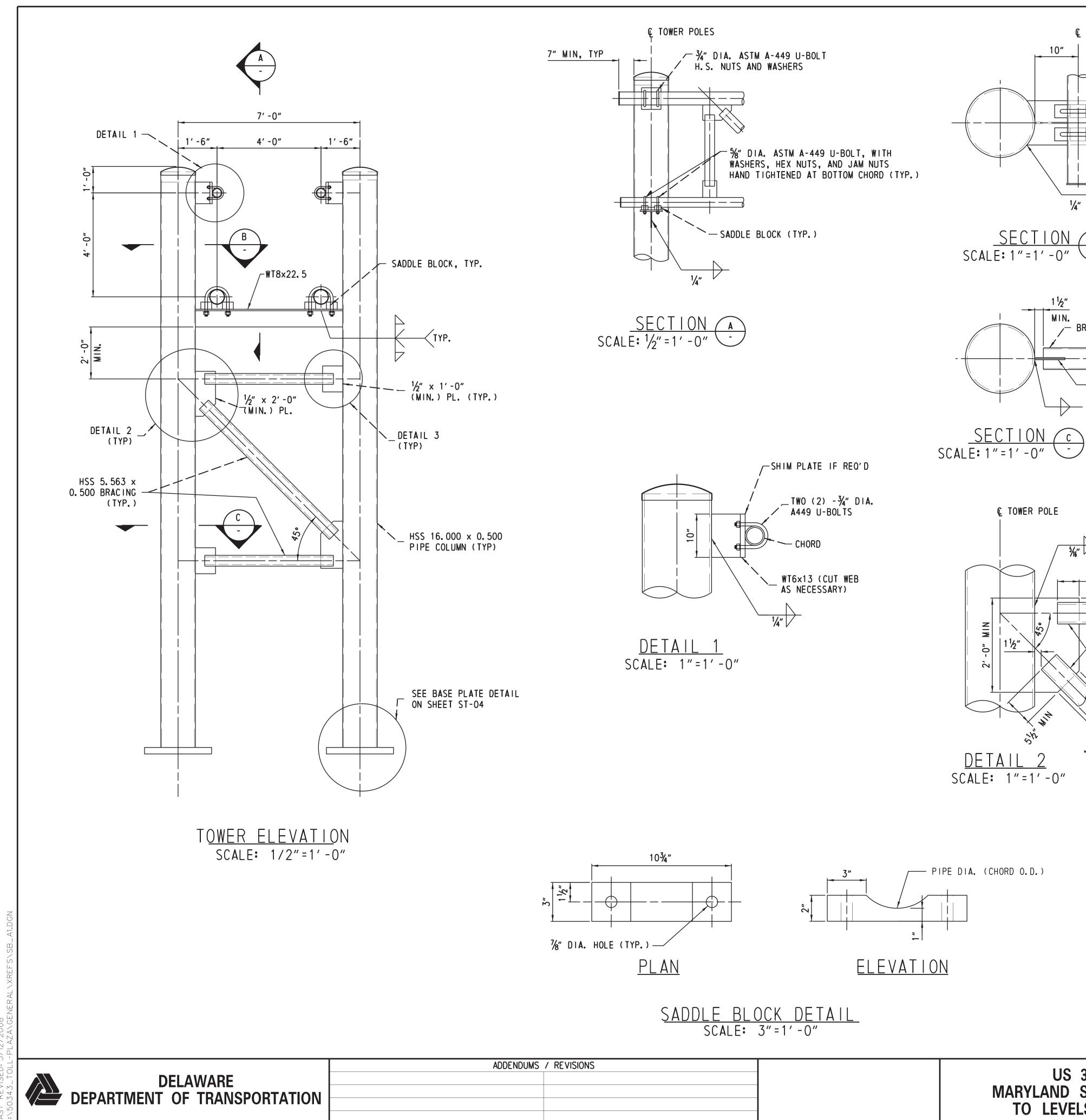
SCALE: 1/2" = 1' - 0"

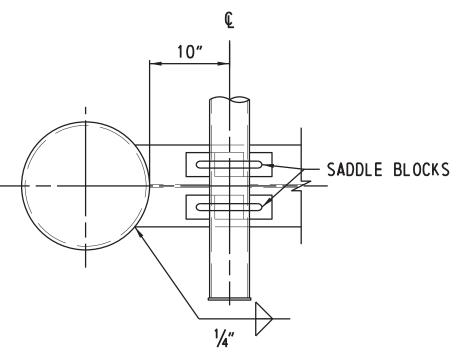


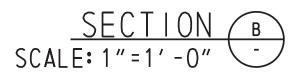


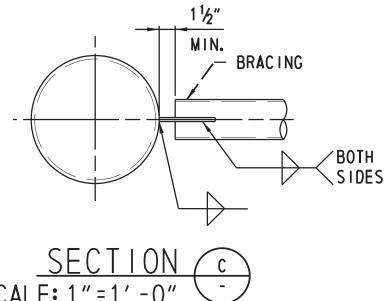
| S | 110 001 | (|
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| | US 301 | Т |
| | MARYLAND STATE LINE | |
| | | |
| | TO LEVELS ROAD | |
| | | NE |

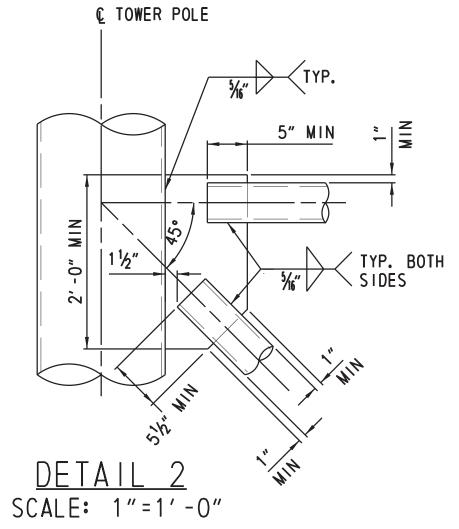




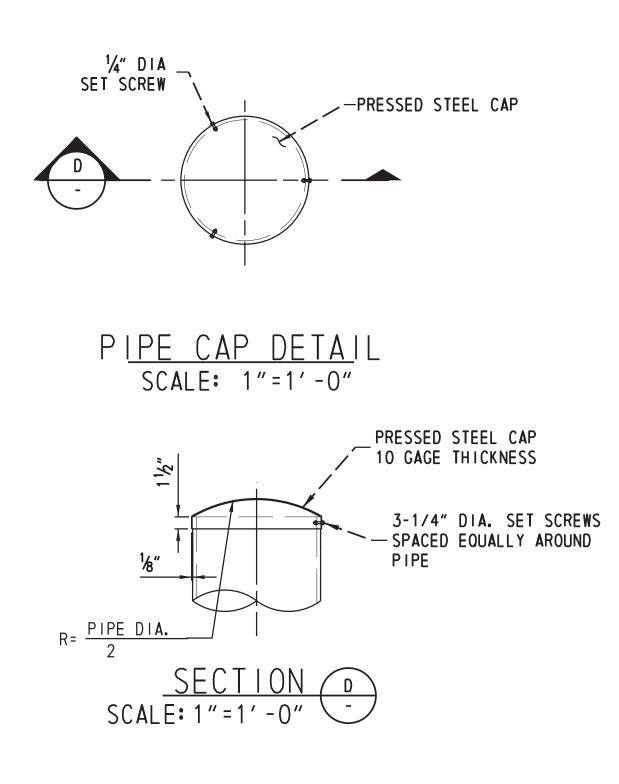


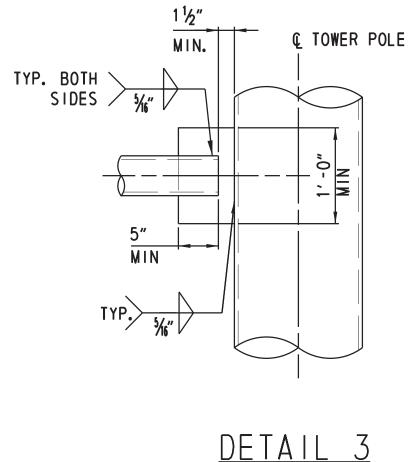






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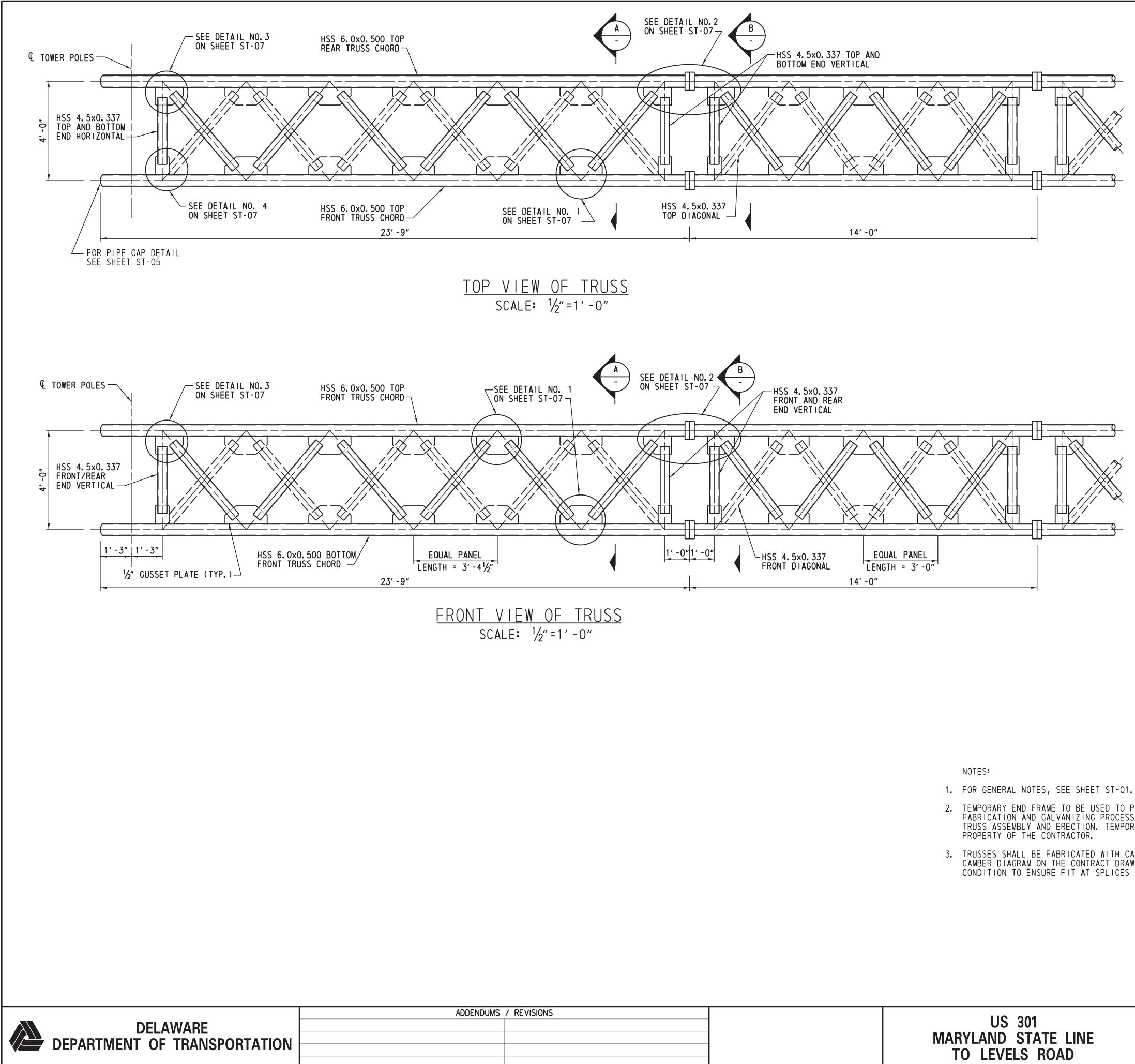
NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET ST-01.
- 2. FOR BASE PLATE, ANCHOR BOLT AND ANCHOR PLATE DETAILS, SEE SHEET ST-04,
- 3. FOR COPE HOLE DETAILS, SEE SHEET ST-07.
- 4. TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTHS ARE ACHIEVED.

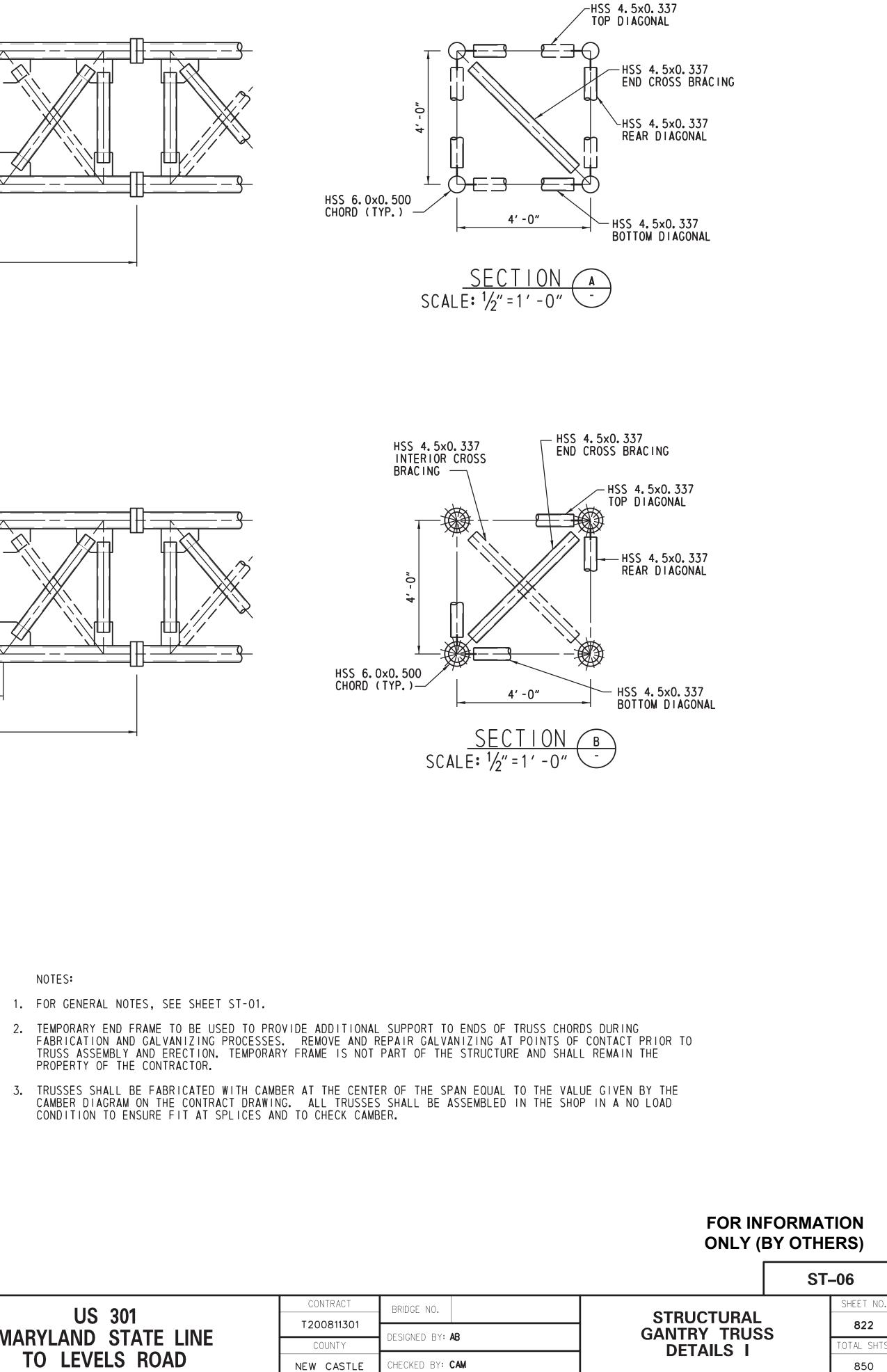
| FOR INFORMATION |
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| ONLY (BY OTHERS) |

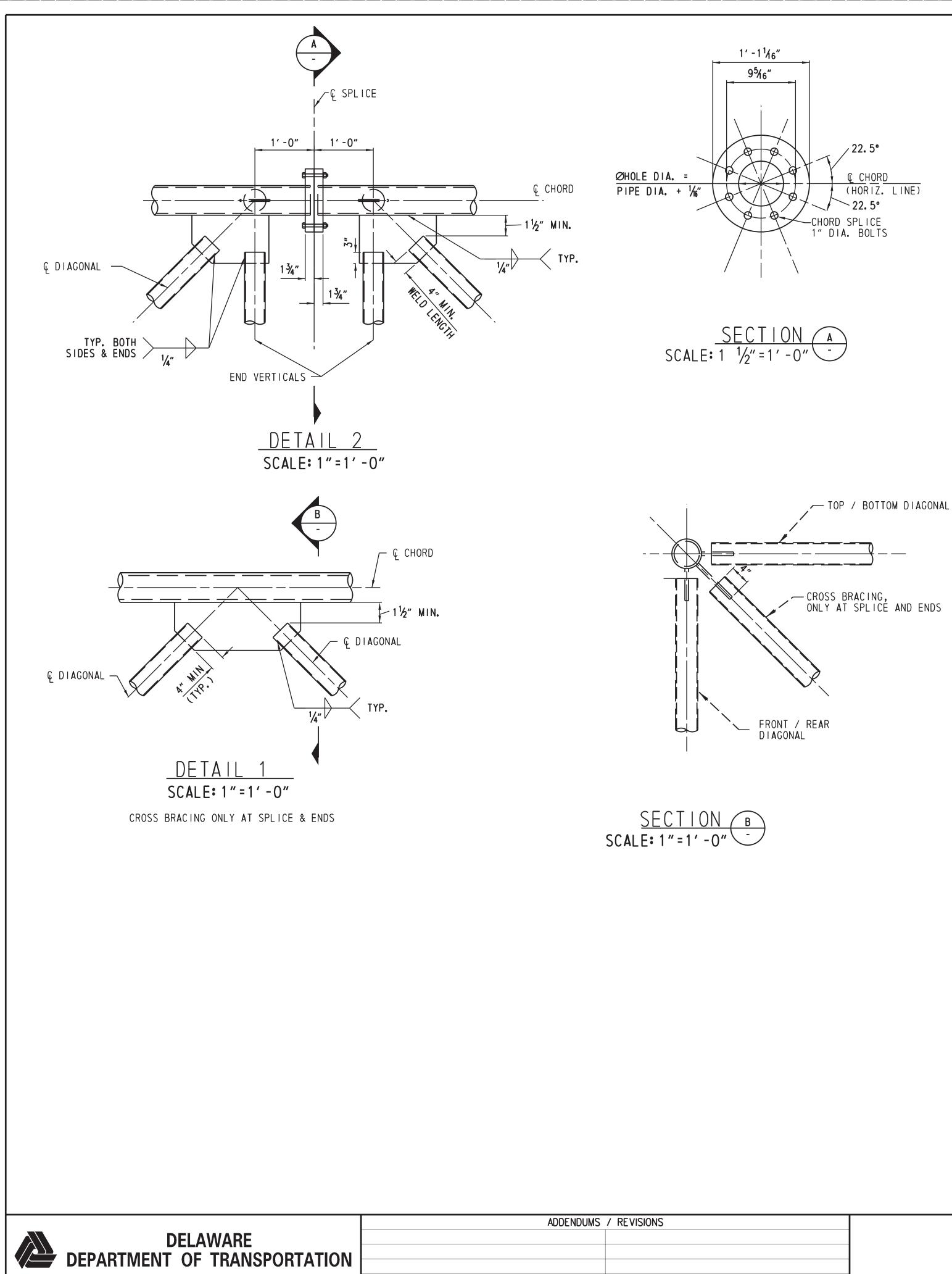
SHEET N

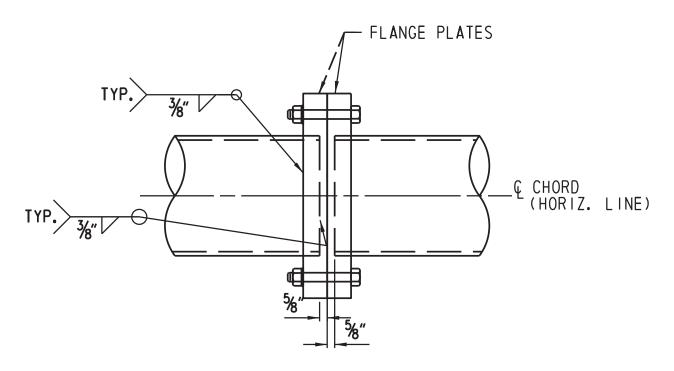
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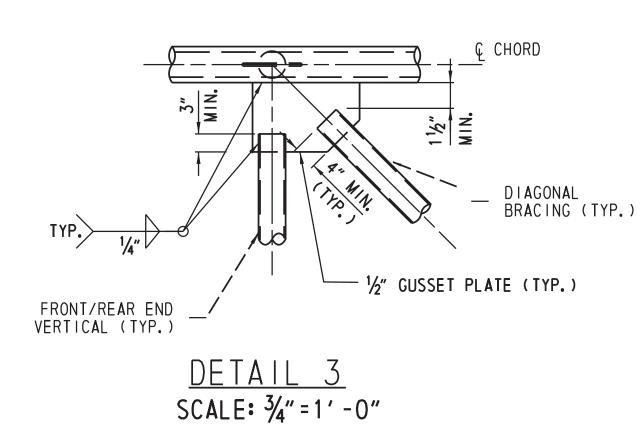
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| | US 301 | T2 |
| | MARYLAND STATE LINE | |
| | TO LEVELS ROAD | NE |



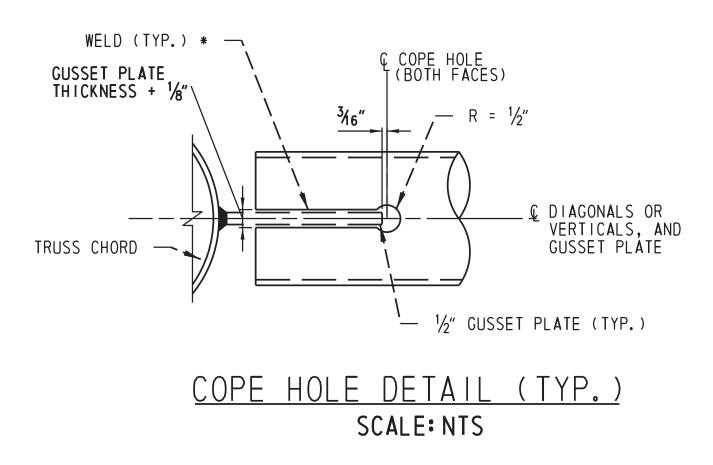




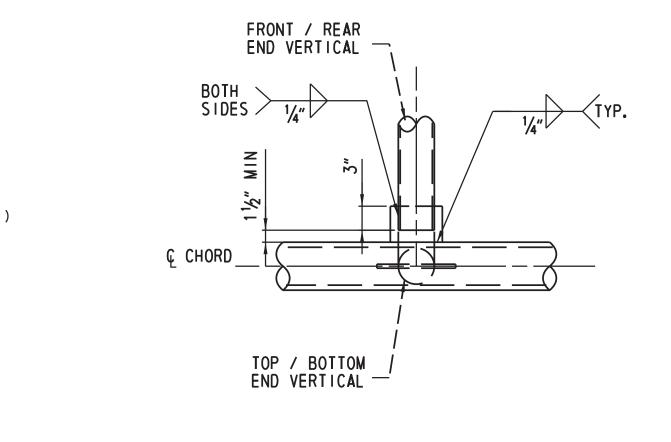




| NS | 110 004 | C |
|----|---------------------|-----|
| | US 301 | Т2 |
| | MARYLAND STATE LINE | (|
| | TO LEVELS ROAD | NEW |



* - PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBER EQUAL TO THE MINIMUM WELD SIZE REQUIRED.



DETAIL 4 SCALE: 1"=1'-0"

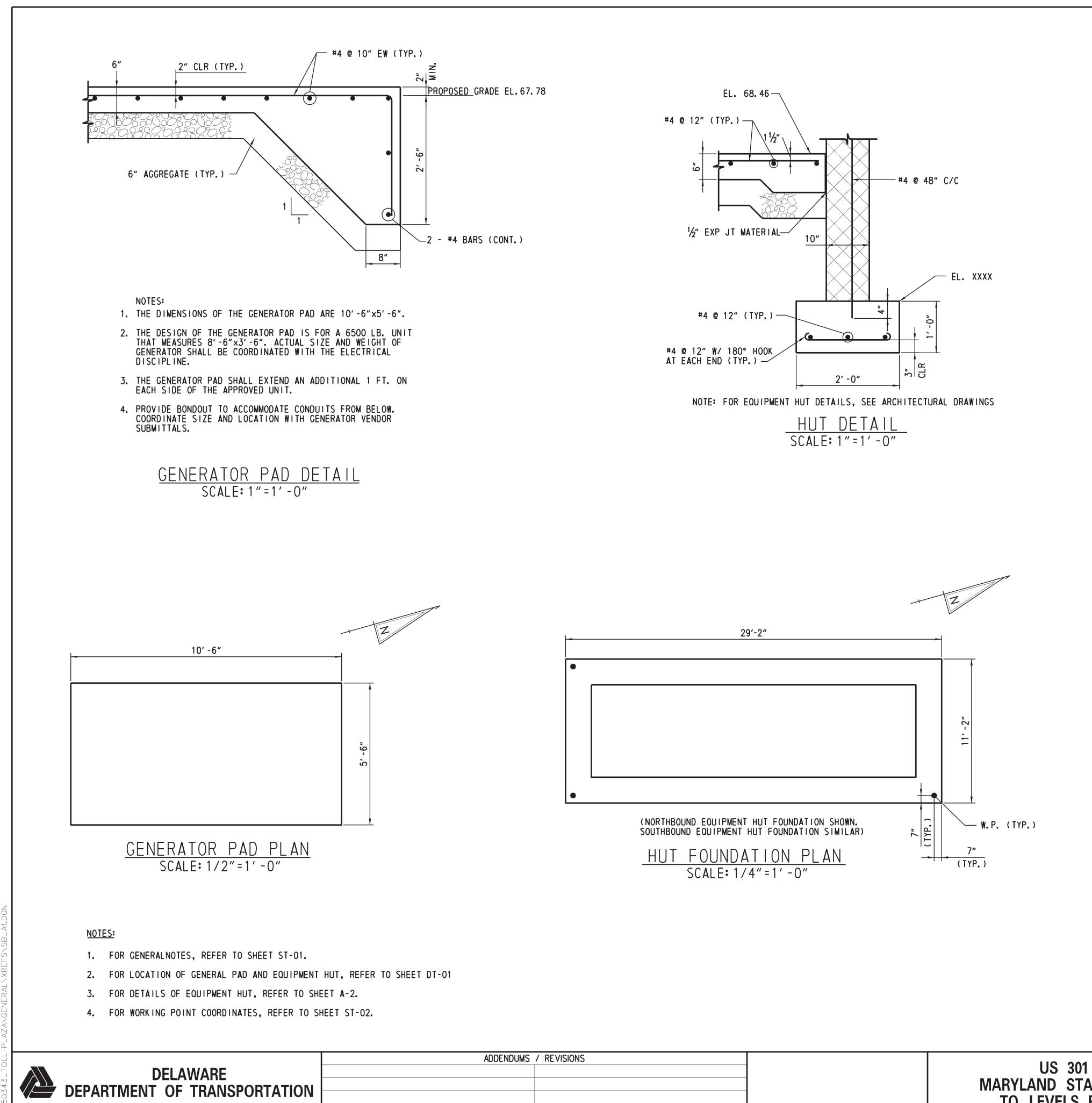
NOTES:

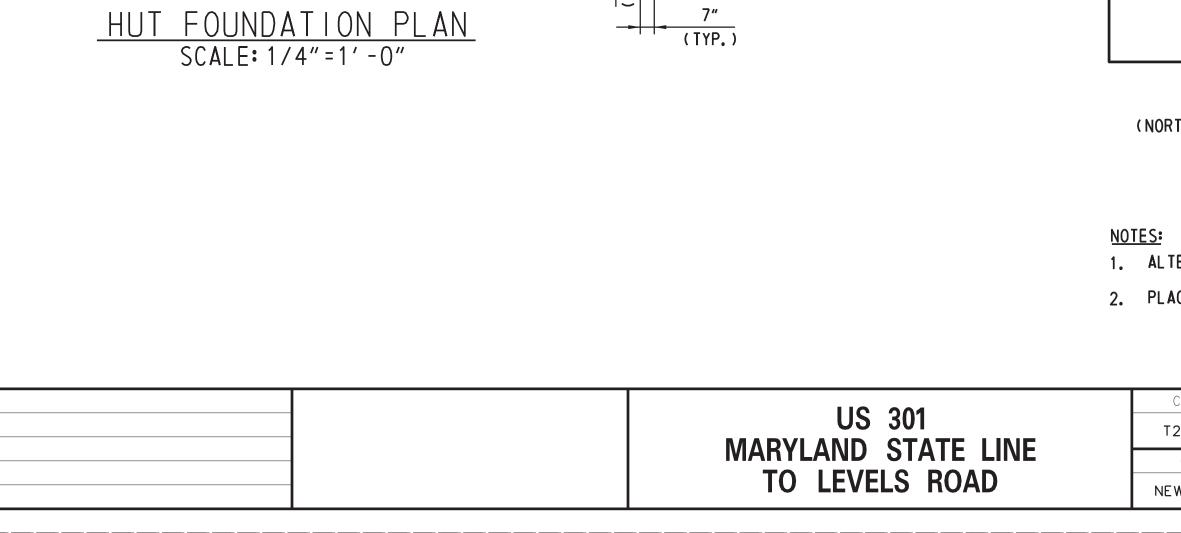
- 1. FOR GENERAL NOTES, SEE SHEET ST-01.
- 2. CHORD SPLICE BOLTS SHALL BE ASTM A325 HIGH STRENGTH STEEL BOLTS, HOLES IN SPLICE PLATE SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
- 3. ASTM A325 SPLICE BOLTS SHALL BE HEAVY HEXAGON TYPE AND SHALL BE FURNISHED WITH HEAVY HEXAGON NUTS AND WASHER.
- 4. THE THREADED PORTION OF THE SPLICE BOLTS SHALL BE EXCLUDED FROM THE SHEAR PLANE OF THE SPLICE.
- 5. TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTH ARE ACHIEVED.

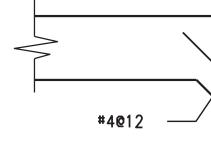
FOR INFORMATION **ONLY (BY OTHERS)**

ST 07

| | | | 51-07 |
|-----------|-----------------|-------------|-------------|
| CONTRACT | BRIDGE NO. | | SHEET NO. |
| 200811301 | | | 023 |
| COUNTY | DESIGNED BY: AB | GANTRY TRUS | TOTAL SHTS. |
| W CASTLE | CHECKED BY: CAM | DETAILS II | 850 |











| | 1.5t |
|--|---|
| 2" RIGID PERIMETER INSULATION AND VAPOR BARRIER (SEE ARCH. DRAWINGS FOR DETAILS) 6" AGGREGATE (TYP.) | |
| THICKENED SLAB ED scale: nts | <u>GE</u> |
| | LL |
| | |
| #4@12 | |
| 3-#4 1'-0" T 1'-0" | <u> </u> |
| T + 2' -0" | |
| THICKENED SLAB AT MASONR | Y WALLS |
| SCALE: NTS | <u>I WALLJ</u> |
| | |
| | |
| | |
| | Z |
| 13' - 4" | 9' -0" |
| | |
| CONTRACTION JOINT | -THICKENED SLAB |
| | õ |
| | |
| (NORTHBOUND EQUIPMENT HUT SLAB SHOWN. SOUTHB | DUND EQUIPMENT HUT SLAB SIMILAR) |
| HUT SLAB PLAN | |
| SCALE: 1/4"=1'-0" | |
| ALTERNATE BARS SHALL BE STOPPED 2" ON BOTH PLACE 1" DEEP SAW CUT CONTRACTION JOINT. | FOR INFORMATION JOINT. FOR INFORMATION ONLY (BY OTHERS) |
| | ST-08 |
| CONTRACT BRIDGE NO. | SHEET NO. 824 |
| T200811301 COUNTY DESIGNED BY: | MISC. STRUTURES SECTIONS AND DETAILS |
| NEW CASTLE CHECKED BY: CAM | 850 |

| ABBREVIA (NOT ALL | ABBREVIATIONS MAY | | |
|----------------------|--------------------------------------|--------|----------|
| | ON THESE CONTRACT | | |
| ABV | ABOVE | ET | EXPANSI |
| AC | AIR COMPRESSOR | EUH | ELECTRIC |
| ACCU | AIR COOLED CONDENSING UNIT | EWT | ENTERIN |
| ACU | AIR CONDITIONING UNIT | EXP | EXPANSI |
| AD | ACCESS DOOR | *F | DEGREES |
| AFF | ABOVE FINISHED FLOOR | FA | |
| AFR | ABOVE FINISHED ROOF | FB | FROM B |
| AHU | AIR HANDLING UNIT | FC | FLEXIBLE |
| AP | ACCESS PANEL | FCU | FAN COL |
| APD APPROX. | AIR PRESSURE DROP | FCV | FLOW CO |
| APPROX. | APPROXIMATE | FD | FIRE DA |
| AS | AIR SEPERATOR | FIN | FINISHEL |
| ATC | AUTOMATIC TEMPERATURE CONTROL | FL | FLANGE |
| AUTO | AUTOMATIC | FLA | FULL LO |
| AVG | AVERAGE | FLEX | FLEXIBLE |
| AVS | AIR VOLUME MEASUREMENT STATION | FLR | FLOOR |
| AWT | AVERAGE WATER TEMPERATURE | FM | FLOW M |
| BCU | BUILDING CONTROL UNIT | FO | FAIL OPE |
| BDD | BACK DRAFT DAMPER | FOB | FLAT ON |
| BFP | BACK FLOW PREVENTOR | FOT | FLAT ON |
| BG | BLAST GATE | FP | FIRE PR |
| BLDG | BUILDING | FPB | FAN POI |
| BOL | BOTTOM OF LOUVER | FPM | FEET PE |
| BOD | BOTTOM OF DUCT/BASIS OF DESIGN | FPS | FEET PE |
| BOI | BOTTOM OF INSULATION | FS | FLOW S |
| BOT | BOTTOM | FT | FEET, FL |
| BTU | BRITISH THERMAL UNIT | FTR | FIN TUB |
| BTUH | BRITISH THERMAL UNIT PER HOUR | FV | FACE VE |
| CA | COMPRESSED AIR | GA | GAUGE |
| CAP | CAPACITY | GAL | GALLON |
| CAV | CONSTANT AIR VOLUME | GALV | GALVANI |
| CBV | CIRCUIT BALANCING VALVE | GC | GENERAL |
| CC | COOLING COIL | GPD | GALLONS |
| CD | CEILING DIFFUSER\CONDENSATE DRAIN | GPH | GALLONS |
| CFM | CUBIC FEET PER MINUTE | GPM | GALLONS |
| CH | CHILLER | GRD | GROUND |
| CHP | CONCRETE HOUSEKEEPING PAD | GRS/LB | GRAINS |
| CHWS | CHILLED WATER SUPPLY | GUH | GAS FIR |
| CHWR | CHILLED WATER RETURN | Н | HUMIDIFI |
| CI | CAST IRON | HC | HEATING |
| CLG | CEILING | HD | HEAD (F |
| CMU | CONCRETE MASONARY UNIT | HOA | HAND OI |
| CO | CLEAN OUT | HORIZ. | HORIZON |
| COL | COLUMN | HP | HORSEP |
| COMP | COMPRESSOR | HRU | HEAT RE |
| CONC | CONCRETE | HWHC | |
| COND | CONDENSATE | HWS | HOT WAT |
| CONN | CONNECTION | HWR | HOT WAT |
| CONTD | CONTINUED | HVAC | HEATING |
| CONV | CONVECTOR | HVU | HEATING |
| COP | COEFFICIENT OF PERFROMANCE | HX | HEAT EX |
| CT | COOLING TOWER | HZ | HERTZ |
| CU | CONDENSING UNIT | H20 | WATER |
| CUH | CABINET UNIT HEATER | ID | INSIDE D |
| CV | CONSTANT AIR VOLUME BOX | IN | INCHES |
| CVS | CONTROL VALVE STATION | INFO | INFORMA |
| CW | COLD WATER | IN WG | INCHES |
| D | DAMPER | INV | INVERT |
| DDC DEPT | DIRECT DIGITAL CONTROL DEPARTMENT | IPLV | INTEGRA |
| DIA | DIAMETER | KE | KITCHEN |
| DIAG | DIAGRAM | KEH | KITCHEN |
| DIFF | DIFFERENTIAL | KW | KILOWAT |
| DISC | DISCONNECT | L | LENGTH |
| DIV | DIVISION | LAT | LEAVING |
| DIW | DOWN IN WALL | LBG | LINEAR |
| DL | DOOR LOUVER | LBS | POUNDS |
| DN | DOWN | LBS/HR | POUNDS |
| DWG | DRAWING | LD | LINEAR |
| DX | DIRECT EXPANSION | LDB | LEAVING |
| DPI DPT | DIFFERENTIAL PRESSURE INDICATOR | LIN | LINEAR |
| - | DIFFERENTIAL PRESSURE TRANSMITTER | LRA | LOCKED |
| | EXISTING | LVR | LOUVER |
| EA | EACH OR EXHAUST AIR | LWB | LEAVING |
| EAT | ENTERING AIR TEMPERATURE | LWT | LEAVING |
| EAV | EXHAUST AIR VALVE | М | MOTOR |
| ECC | ECCENTRIC | MAU | MAKE UI |
| EDB | ENTERING DRY BULB | MAX | MAXIMUN |
| EDH | ELECTRIC DUCT HEATER | MB | MIXING E |
| EER | ENERGEY EFFICIENCY RATING | MBH | THOUSAI |
| EF | EXHAUST FAN | MC | MECHAN |
| EG | EXHAUST GRILLE | MD | MOTORIZ |
| EL | ELEVATION | MED | MEDIUM |
| ELEC | ELECTRIC | MER | MECHAN |
| EQ | EQUAL | MFR | MANUFA |
| EQUIP | EQUIPMENT | MIN | |
| ER ES | EXHAUST REGISTER END SWITCH | MISC | MISCELL |
| ESP | EXTERNAL STATIC PRESSURE | | |
| | | | |

SION TANK MOD RIC UNIT HEATER N/A NG WATER TEMPERATURE NG SION NC NEG ES FAHRENHEIT ABOVE NIC BELOW No NO E CONNECTION NOM OIL UNIT CONTROL VALVE NTS AMPER/FLOOR DRAIN OA OAI OAT ОС OAD AMPS OCC OD ODP METER PEN PC IN BOTTOM PD N TOP PERF ROTECTION PNEU OWERED BOX POS PRV PER MINUTE PER SECOND PS PSA SWITCH PSI FLASH TANK BE RADIATION PSIG PT /ELOCITY PVC RA RD IIZED L CONTRACTOR RF RG VS PER DAY VS PER HOUR RH VS PER MINUTE RHC RL PER POUND RLA RM RED UNIT HEATER RPM FIER RR IG COIL RS PRESSURE IN FEET RTU OFF AUTO SWITCH RV NTAL POWER SA SAV RECOVERY UNIT SCH ATER HEATING COIL SD TER SUPPLY SF TER RETURN G VENTILATION AND AIR CONDITIONING SG IG AND VENTILATION UNIT SHT SP XCHANGER SPEC SQ DIMENSION SR SRV ATION SS ST IN WATER COLUMN SW PATED PART LOAD VALUE SUCT SUP N EXHAUST SYS N EXHAUST HOOD TAD TEMP TF IG AIR TEMPERATURE TG BAR GRILLE ΤK ΤP S PER HOUR TRAN DIFFUSER IG DRY BULB TEMPERATURE TS TYP ROTOR AMPS UΗ VAC IG WET BULB TEMPERATURE VAV IG WATER TEMPERATURE VD VEL JP AIR UNIT VERT VFD VTR BOX ANDS OF BTU PER HOUR W VICAL CONTRACTOR WB ZED DAMPER WG WH NICAL EQUIPMENT ROOM WPD WT ACTURER LANEOUS 2 POS

DELAWARE **DEPARTMENT OF TRANSPORTATION** ADDENDUMS / REVISIONS

MODULATING NOT APPLICABLE NATURAL GAS NORMALLY CLOSED NEGATIVE NOT IN CONTRACT NUMBER NORMALLY OPEN NOMINAL NOT TO SCALE OUTSIDE AIR OUTSIDE AIR INTAKE OUTSIDE AIR TEMPERATURE ON CENTER OCCUPIED* OUTSIDE DIMENSION OPEN DRIP PROOF PLUMBING CONTRACTOR PRESSURE DROP PERFORATED PNEUMATIC POSITIVE PRESSURE REDUCING VALVE PRESSURE SWITCH PRIMARY SUPPLY AIR POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH VALVE PRESSURE TRANSMITTER POLYVINYL CHOLORIDE RETURN AIR ROOF DRAIN RETURN FAN RETURN GRILLE RELATIVE HUMIDITY REHEAT COIL REFRIGERANT LIQUID RATED LOAD AMPS ROOM REVOLUTIONS PER MINUTE RETURN REGISTER REFRIGERANT SUCTION ROOFTOP AIR HANDLING UNIT RELIEF VALVE SUPPLY AIR SUPPLY AIR VALVE SCHEDULE SMOKE DAMPER SUPPLY FAN SUPPLY GRILLE SHEET STATIC PRESSURE SPECIFICATION SQUARE SUPPLY REGISTER SAFETY RELIEF VALVE STAINLESS STEEL SOUND TRAP SWITCH SUCTION SUPPLY SYSTEM THERMOSTAT TRANSFER AIT DUCT TEMPERATURE TRANSFER FAN TRANSFER GRILLE TANK TOTAL PRESSURE TRANSITION TEMPERATURE SWITCH TYPICAL UNIT HEATER VACUUM VARIABLE AIR VOLUME VOLUME DAMPER VELOCITY VERTICAL VARIABLE FREQUENCY DRIVE VENT THRU ROOF WIDTH WET BULB WATER GAUGE WATER HEATER WATER PRESSURE DROP WEIGHT VARIABLE TWO POSITION

PIPING ELEMENTS/VALVES (NOT ALL ELEMENTS MAY APPEAR ON THESE CONTRACT DOCUMENTS) GLOBE VALVE — PLUG VALVE, GAS COCK BUTTERFLY VALVE <u>k</u>− GATE VALVE, ANGLE GLOBE VALVE, ANGLE THREE WAY CONTROL VALVE TWO WAY CONTROL VALVE S PRESSURE REDUCING VALVE (PRV) SV COMBINATION STRAINER AND SHUT OFF VALVE WITH PETES PLUGS COMBINATION FLOW CONTROL FV VALVE AND SHUT OFF VALVE WITH PETES PLUGS CIRCUIT BALANCING VALVE -TEMPERATURE/PRESSURE RELIEF VALVE FLEXIBLE CONNECTION PIPE GUIDE ______^{_} ----- AUTOMATIC FILL VALVE MANUAL AIR VENT AV AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN) DIRECTION OF FLOW ---- DIRECTION OF SLOPE STRAINER VALVE -BFP BACK-FLOW PREVENTOR ------O PIPE RISING UP -) PIPE DROPPING DOWN - TEE OUTLET DOWN ECCENTRIC REDUCER →II-- UNION - SCREWED OR FLANGED _____A PIPE ANCHOR E EXPANSION JOINT AQUASTAT ELECTRICALLY TRACED PIPING - W HEXPANSION LOOP (WxH) PRESSURE / TEMPERATURE TEST STATION THERMOMETER

<u>DUCTWORK</u> (NOT ALL CC APPEAR ON DOCUMENTS DOUBLE LINE FLEXIBLE DUCTWOR F NEW DUCTWORK -<u>- 20X12 -</u> SIZE INDICATED INC ALLOWANCE FOR A LINING WHERE APP RADIUS ELBOW VANED ELBOW BRANCH DUCT TAK RISE OR DROP DIRECTION OF AIR FLOW **← → ⊠ →** DIFFUSER SIZE CFM CEILING \square **RETURN/EXHAUST** SIZE CFM REGISTER (R) OR GRILLE (G) SUPPLY AIR GRILL SUPPLY AIR REGIS SIZE LAL CFM RETURN AND/OR SIZE CFM EXHAUST AIR GRIL OR REGISTER (R) VOLUME DAMPER —____ *SD* SMOKE DAMPER —____ *FD* FIRE DAMPER W $----_{FSD}$ FIRE & SMOKE DA $M \rightarrow / \rightarrow /$ MOTORIZED DAMPE CENTRIFUGAL FAN С DOME FAN AXIAL FAN AIR VOLUME MEA $\overline{}$ THERMOSTAT (H)HUMIDISTAT S SMOKE DETECTOR UNDERCUT — U → <u>_____</u> 12X12 DOOR LOUVER CEILING MOUNTED \square GRILLE OR REGIST \boxtimes DIFFUSER, 4-WAY BLOW \mathbf{X} DIFFUSER, 3-WAY BLOW

US 301 MARYLAND STATE LINE TO LEVELS ROAD

MONITOR

MONITOR

CARBON DIOXIDE

00

C02

| COMPONENTS MAY | | REFERENCE SYMBOL | |
|------------------------------------|--------------------|-----------------------------|--|
| N THESE CONTRACT | | APPEAR ON THESE | |
| 57 | <u>SINGLE LINE</u> | DOCUMENTS) | |
| | | (SEE | POWERED EQUIPMENT SCHEDULE) |
| RK | | | PMENT IDENTITY ABBREVIATION NAL CELL |
| DUCT ICLUDES | 20X12 | | NAL CELL ' RATE |
| ACOUSTIC PLICABLE | | EQUIPMEN | NT POWERED WITH |
| | 1 | LINE VOL | TAGE |
| | | | ENT IDENTITY ABREVIATION |
| | I | | ENT NUMBER |
| | | | NUMBER (IF APPLICABLE) S DETAIL LETTER |
| | I | (APPLIES | S ONLY WHERE |
| KE-OFF | | | S DRAWINGS) S DRAWING ON WHICH APPEARS |
| - | | | S SECTION NUMBER |
| NECK | | | S ON WHICH DRAWING APPEARS |
| CFM | | | S REVISION & NUMBER |
| T TYPE - | | ELEVATIO | ON REFERENCE |
| - NECK | | \mathbf{O} | T NEW TO EXISTING |
| CFM | | DEMOLITI | TION POINT OF ION |
| LE (G) OR ISTER (R) | I | | T TO MANUFACTURER'S |
| TYPE | | | CHASED EQUIPMENT |
| NECK | | X SHEET N | NOTE NUMBER (SN) |
| CFM | 1 | | |
| LLE (G) - TYPE | | | |
| NECK | | LINE DESIGNATION | <u>VS</u> |
| CFM | | (NOT ALL LINETY) | |
| ? W / LOCKING QUA | DRANT | APPEAR ON THE DOCUMENTS) | SE CUNTRACT |
| W / AD | | CD | CONDENSATE DRAIN |
| | | <i>D</i> | DRAIN |
| DAMPER W / AD PER (OPPOSED BLAL | DF) | ——— EA ——— | EXHAUST AIR |
| | <i>/_/</i> | —— <i>HWS</i> —— | HOT WATER SUPPLY |
| N | | —— <i>HWR</i> —— | HOT WATER RETURN |
| | | NG | NATURAL GAS |
| | | ——— RA ——— | RETURN AIR |
| | | RL | REFRIGERANT LIQUID |
| ASUREMENT STATION | , | <i>RS</i> | REFRIGERANT SUCTION |
| | | SA | SUPPLY AIR |
| - | | _PPP | VENDOR PROVIDED EQUIIP |
| R | | <u> </u> | LOW VOLTAGE WIRING |
| | | | |
| ס | | | |
| STER | | | |
| | | | |

DIFFUSER, 2-WAY BLOW

DIFFUSER, 1-WAY BLOW

LINEAR DIFFUSER

GAS CONCENTRATION

FOR INFORMATION **ONLY (BY OTHERS)**

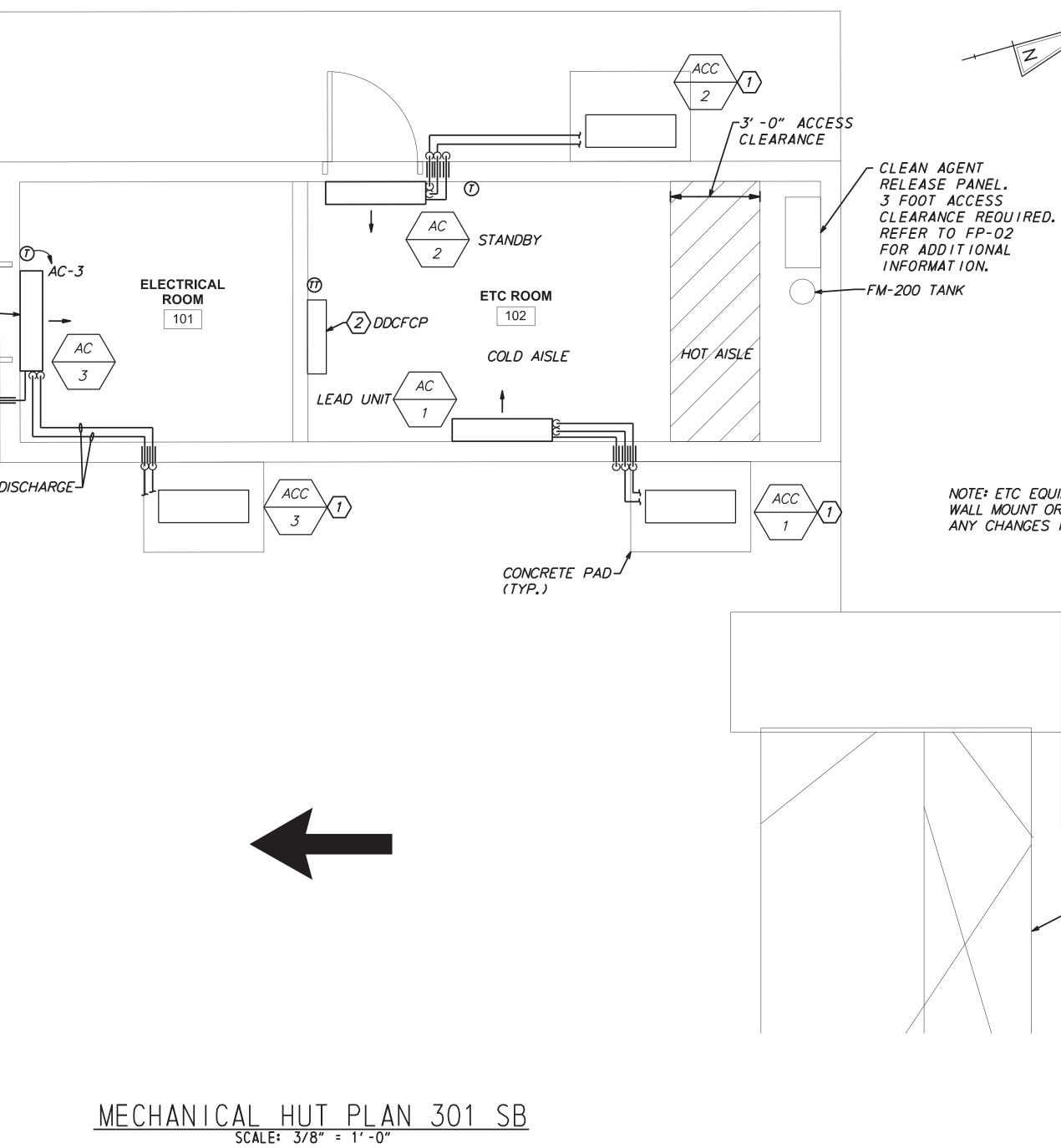
M–01

| CONTRACT | BRIDGE NO. | | SHEET NO. |
|------------|------------------|------------------------|-------------|
| T200811301 | | MECHANICAL | 825 |
| 1200811301 | DESIGNED BY: CLG | SYMBOLS, ABBREVIATIONS | 025 |
| COUNTY | DESIGNED DT. CEG | - | TOTAL SHTS. |
| NEW CASTLE | CHECKED BY: DWF | & GENERAL NOTES | 850 |

NOMINAL 2-1/2" TON DUCTLESS SPLIT SYSTEM HEAT PUMP. 40" W X 13" H X 9" D, WALL MOUNTED. BOTTOM OF UNIT APPROX. 7'-3" ABOVE FLOOR. (TYP. 3) 1" CONDENSATE DRAIN. REFER TO-DETAIL 2/M-04 FOR CONDENSATE PIPING CONNECTION AT AC UNIT (TYP.) REFRIGERANT PIPING 5%" SUCTION, 3%" DISCHARGE SUPPORTED OFF WALL (TYP.)

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



| 5 | | CONTRACT | BRIDGE NO. |
|---|---------------------|------------|------------------|
| | US 301 | T200811301 | |
| | MARYLAND STATE LINE | COUNTY | DESIGNED BY: CLG |
| | TO LEVELS ROAD | | |
| | | NEW CASTLE | CHECKED BY: DWF |

<u>GENERAL NOTES:</u> 1. SEE ARCHITECTURAL DWG. A-1 FOR GENERAL NOTES.

<u>SHEET NOTES:</u>

(1) REFER TO SCHEDULE ON DWG. M-04 FOR ADDITIONAL HEAT PUMP SYSTEM INFORMATION.

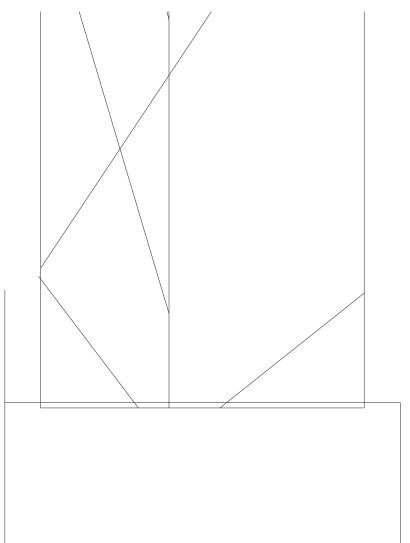
 $\langle 2 \rangle$ SEE DWG. M-04 FOR ADDITIONAL INFORMATION.

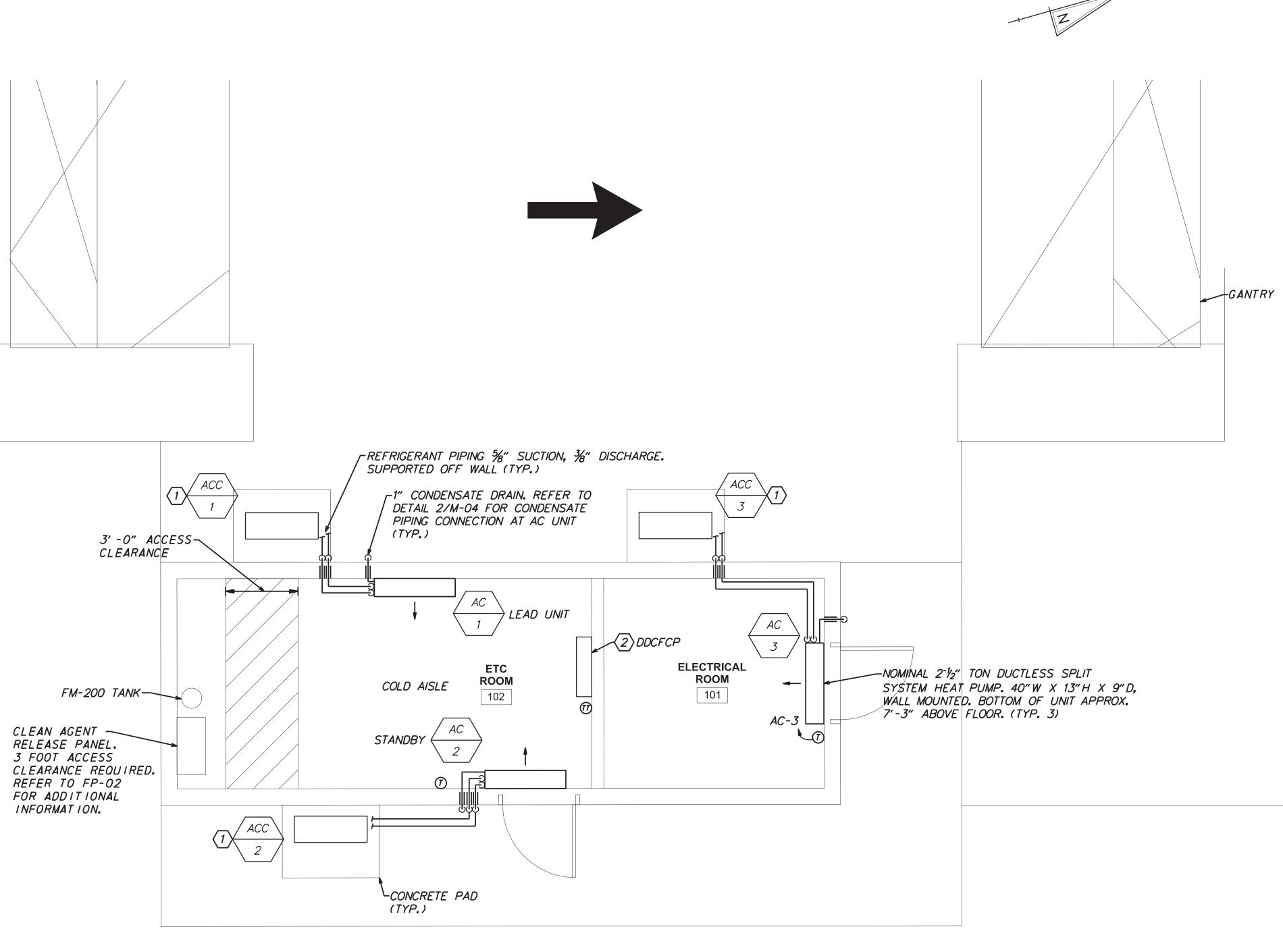
NOTE: ETC EQUIPMENT TO BE SUPPLIED BY OTHERS. WALL MOUNT OR OTHER SOLUTIONS MAY BE UTILIZED. ANY CHANGES MUST BE APPROVED BY THE ETC CONTRACTOR.

-GANTRY

| | IFORMATION (BY OTHERS) | | | | |
|------------------------|---------------------------|-------------|--|--|--|
| | M-02 | | | | |
| | | SHEET NO. | | | |
| MECHANICAL HUT PLAN | | 826 | | | |
| 301 SB | | TOTAL SHTS. | | | |
| | | | | | |

850





NOTE: ETC EQUIPMENT TO BE SUPPLIED BY OTHERS. WALL MOUNT OR OTHER SOLUTIONS MAY BE UTILIZED. ANY CHANGES MUST BE APPROVED BY THE ETC CONTRACTOR.



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

MECHANICAL HUT PLAN 301 NB scale: 3/8" = 1'-0"

| S | 110 001 | CONTRACT |
|---|---------------------|------------|
| | US 301 | T200811301 |
| | MARYLAND STATE LINE | COUNTY |
| | TO LEVELS ROAD | NEW CASTLE |

<u>GENERAL NOTES:</u>

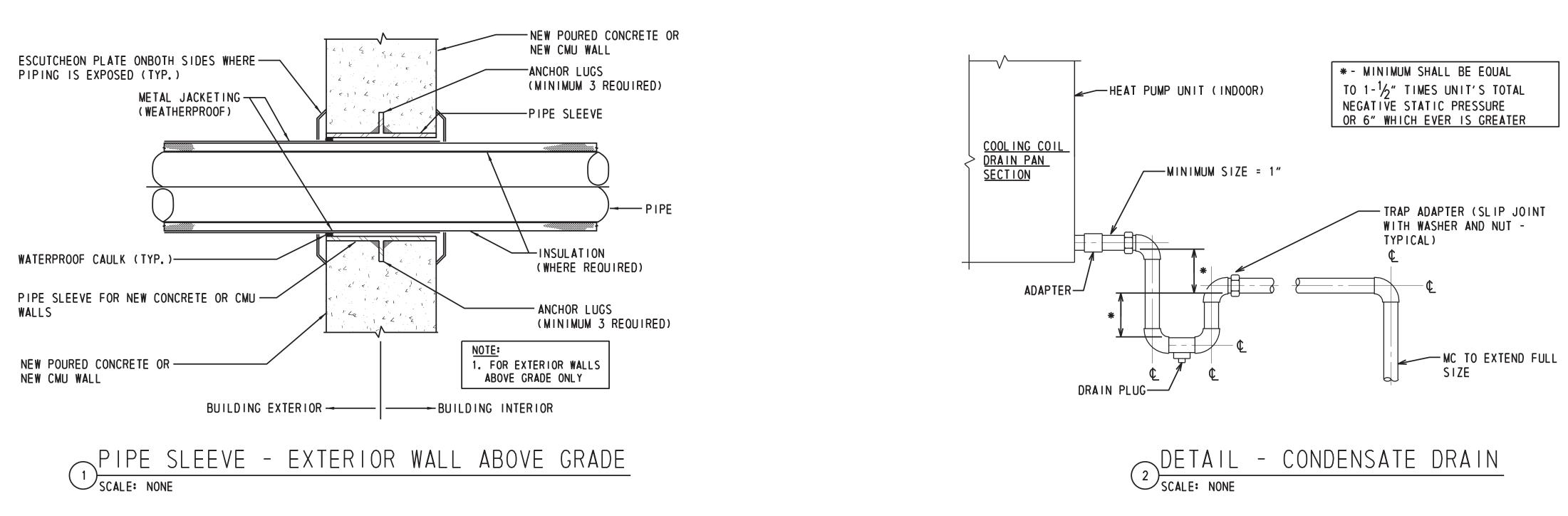
1. SEE ARCHITECTURAL DWG. A-1 FOR GENERAL NOTES.

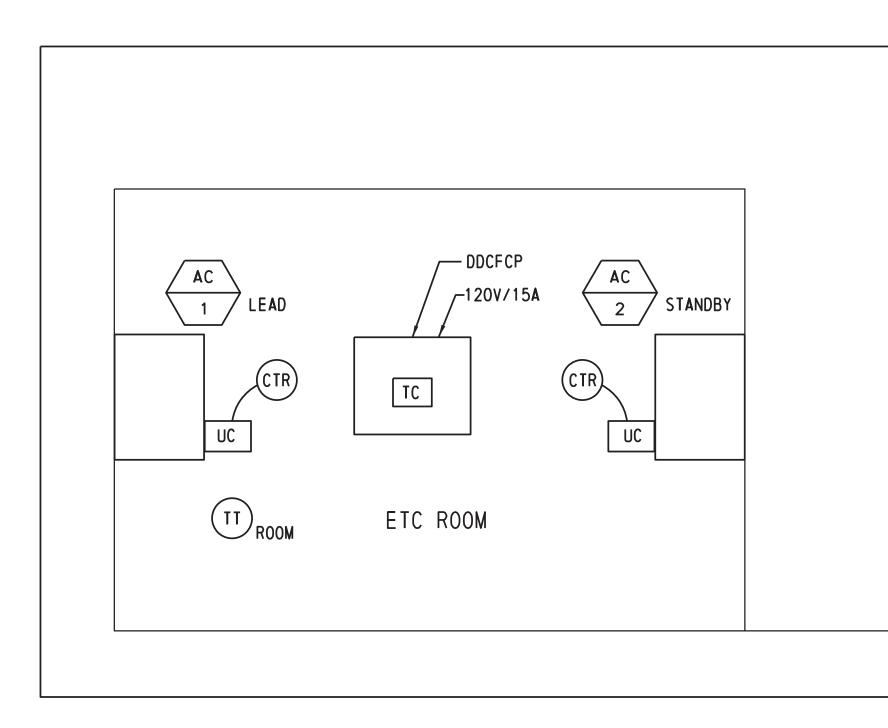
<u>SHEET NOTES:</u>

(1) REFER TO SCHEDULE ON DWG. M-04 FOR ADDITIONAL HEAT PUMP SYSTEM INFORMATION.

(2) SEE DWG. M-04 FOR ADDITIONAL INFORMATION.

| | | | FORMAT BY OTHE | |
|----------------|-----|------------|-------------------|------------------|
| | | | M- | -03 |
| BRIDGE NO. | | МЕСНАЛІСАІ | | SHEET NO. 827 |
| DESIGNED BY: (| CLG | HUT PLAN | | |
| CHECKED BY: I | DWF | 301 NB | | 850 |



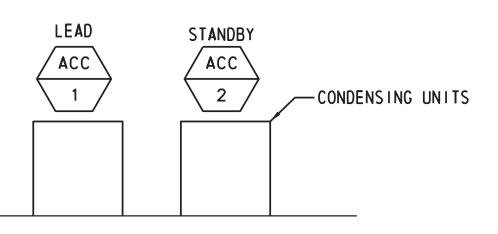


| | | | INDOOR UNIT | DATA | | | | OUTDOOR UNIT DATA | | | ELECTRICAL | DATA | | | | |
|------------|--------------------------|--------------------------|----------------------|----------|---------------------------|------------------|----------------------|---------------------------|------------------|---------------------|---------------------|-------|-------|-------|--------------------|-----------------|
| UNIT TAG | NOMINAL COOLING (MBH) | NOMINAL HEATING (MBH) | MAX AIRFLOW (CFM) | OA (CFM) | DIMENSIONS H/W/D (IN.) | WEIGHT (LBS.) | FAN RPM (CLG/HTG) | DIMENSIONS H/W/D (IN.) | WEIGHT (LBS.) | MAX AMPS HEATING | MAX AMPS COOLING | VOLTS | PHASE | HERTZ | MANUFACTURER/MODEL | REMARKS |
| AC-1/ACC-1 | 30 | 32 | 695 | - | 12-5/8 / 39-1/4 / 9 | 31 | 850/850 | 32-3/4 / 35-3/8 / 13 | 137 | 18.5 | 17 | 208 | 1 | 60 | FUJITSU / 30 RLX | SEE NOTES 1 & 2 |
| AC-2/ACC-2 | 30 | 32 | 695 | - | 12-5/8 / 39-1/4 / 9 | 31 | 850/850 | 32-3/4 / 35-3/8 / 13 | 137 | 18.5 | 17 | 208 | 1 | 60 | FUJITSU / 30 RLX | SEE NOTES 1 & 2 |
| AC-3/ACC-3 | 30 | 32 | 695 | - | 12-5/8 / 39-1/4 / 9 | 31 | 850/850 | 32-3/4 / 35-3/8 / 13 | 137 | 18.5 | 17 | 208 | 1 | 60 | FUJITSU / 30 RLX | SEE NOTE 1 |
| DTES: | | | | | | | | | | | | | | | | |

| | | ADDENDUMS / REVISIONS | | 110.004 | T |
|------------------------------|----------|-----------------------|---------------------|----------------|----|
| | DELAWARE | | - | US 301 | Т |
| DEPARTMENT OF TRANSPORTATION | | - | MARYLAND STATE LINE | | |
| | | | | TO LEVELS ROAD | NE |

ETC ROOM TEMPERATURE CONTROL SEQUENCE

- 1. ON A RISE IN SPACE TEMPERATURE ABOVE 80°F OR ON A DROP SPACE TEMPERATURE BELOW 50°F (ADJUSTABLE), THE SELECTED LEAD HEAT PUMP UNIT (AC/ACC) SHALL BE ENERGIZED. SPACE TEMPERATURE SENSOR/TRANSMITTER SHALL CYCLE UNIT TO MAINTAIN SETPOINT TEMPERATURE.
- 2. ON A FAILURE OF THE LEAD UNIT TO START, THE STANDBY UNIT SHALL START. AN EQUIPMENT FAILURE ALARM SHALL BE ANNUNCIATED LOCALLY. PROVISIONS SHALL BE MADE FOR REMOTE ALARM ANNUNCIATION IN THE FUTURE.



| | SYMBOL LIST | |
|--------|--|--|
| TT | TEMPERATURE SENSOR AND TRANSMITTER | |
| | UNIT CONTROLLER (BY OEM) | |
| CTR | CURRENT TRANSFORMER RELAY | |
| ITC | TEMPERATURE CONTROLLER PROVIDED BY ATC | |
| TC | CONTRACTOR PARAGON: PART NUMBER PC 12931 | |
| | | |
| DDCFCP | DDC FIELD CONTROL PANEL ENCLOSURE BY ATC | |
| | CONTRACTOR. 110V WITH 24VDC TRANSFORMER, | |
| | PARAGON: A1008CHOR W/ A10P8 BACKPLATE | |
| | PARAGON: A1008CHOR W/ A10P8 BACKPLATE | |

3 ETC ROOM TEMPERATURE CONTROL DIAGRAM/SYMBOLS/NOTES

GENERAL CONTROL NOTES:

- .ALL CONTROL COMPONENTS SHALL BE FIELD MOUNTED AND WIRED, EXCEPT FOR UNIT CONTROLLERS UC.
- 2. TEMPERATURE SENSORS (TT) SHALL BE CAPABLE OF PROVIDING A TEMPERATURE SIGNAL TO REMOTE BUILDING MANAGEMENT SYSTEM IN THE FUTURE.
- 3. DDCFCP SHALL INCLUDE FLUSHMOUNT LOCAL DISPLAYS INDICATING: SETPOINT, TEMPERATURE DISPLAY; LOCAL "SYSTEM START", "HAND, OFF, AUTO" AND MANUAL ON" SWITCHES WITH OPTIONAL REMOTE CONNECTIONS.

LEAD UNIT SHALL BE SELECTABLE FROM DDCFCP.

| | | | FORMA1 BY OTHE | - |
|----------|------------------|-----------------|-------------------|-------------|
| | | | M- | -04 |
| ONTRACT | BRIDGE NO. | | | SHEET NO. |
| 00811301 | | MECHANICAL | | 828 |
| COUNTY | DESIGNED BY: CLG | DETAILS & SCHED | ULES | TOTAL SHTS. |
| CASTLE | CHECKED BY: CLG | | | 850 |

| | VALVE | SYMBOLS |
|--|-------|---------|
|--|-------|---------|

<u>PIPING ELEMENT SYMBOLS</u>

—— FM-200 —— FM-200 PIPING

○ FM-200 RELEASE NOZZLE



ADDENDUMS / REVISIONS

| DEVICE SY | <u>(MBOLS</u> |
|----------------------|-------------------------|
| $\Box \triangleleft$ | ALARM HORN AND STROBE |
| $R \triangleleft$ | RELEASE HORN AND STROBE |
| AB | MANUAL ABORT SWITCH |
| M | MANUAL PULL STATION |
| S | SMOKE DETECTOR |
| FCO | FUSED CUT-OUT |

| 110 001 | CONTRACT | BRIDGE NO. | | SHEET NO. |
|---------------------|------------|------------------|------------------------|-------------|
| US 301 | T200811301 | | FIRE PROTECTION | 829 |
| MARYLAND STATE LINE | COUNTY | DESIGNED BY: MLW | SYMBOLS, ABBREVIATIONS | TOTAL SHTS. |
| TO LEVELS ROAD | NEW CASTLE | CHECKED BY: DWF | & GENERAL NOTES | 850 |

<u>GENERAL NOTES</u>

1. SEE ARCHITECTURAL DRAWING FOR GENERAL NOTES.

2. LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS SHOWN ON THIS DRAWING PERTAIN TO FIRE PROTECTION DRAWINGS ONLY.

3. COORDINATE WITH OTHER CONTRACTORS FOR CUTTING AND PATCHING OF ALL OPENINGS, EQUIPMENT PADS, PIPE SLEEVES, ETC.

4. PROVIDE OPENINGS THROUGH CONSTRUCTION AND SLEEVES AS REQUIRED.

5. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.

6. ENTIRE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING: A. NFPA 2001 - ALL APPLICABLE CHAPTERS B. OWNER'S INSURANCE COMPANY C. LOCAL AND STATE REGULATIONS

7. MAKE ALL NECESSARY SUBMISSIONS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS, INCLUDING ENGINEER'S APPROVAL PRIOR TO STARTING FABRICATION AND CONSTRUCTION.

8. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM LAYOUTS, ROOM DIMENSIONS, CEILING HEIGHTS, BUILDING CONSTRUCTION, AND OTHER ARCHITECTURAL AND STRUCTRAL DETAILS IMPACTING DESIGN.

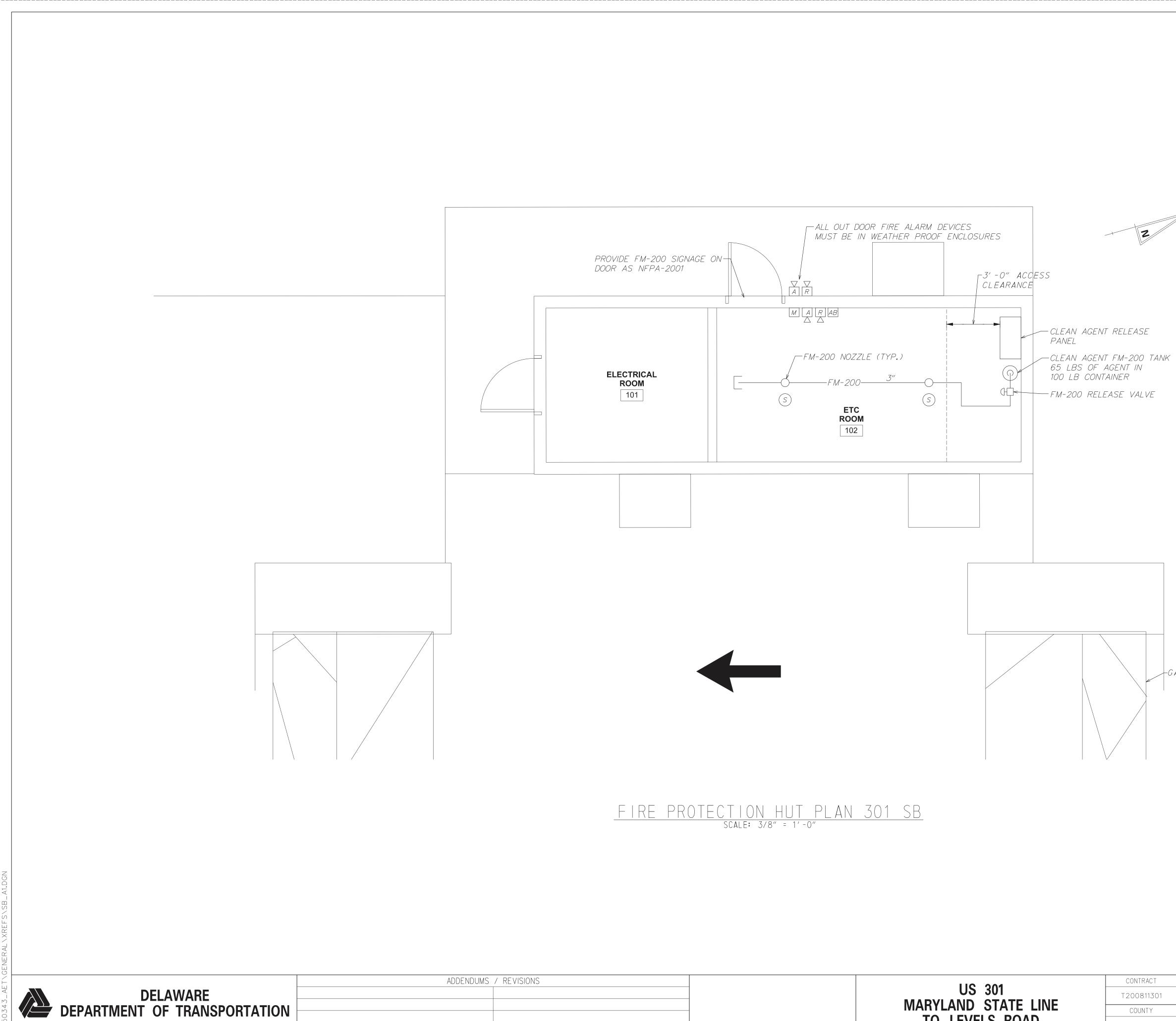
9. REFER TO FIRE PROTECTION SPECIFICATIONS FOR REQUIREMENTS ON MATERIALS, METHODS OF INSTALLATION, PRODUCTS AND GENERAL PROVISIONS.

10. IN ORDER TO FINALIZE THE PLAN REVIEW RELEASE FOR FIRE PROTECTION AND DEMONSTRATE COMPLIANCE WITH IFC 901.2 & IBC 907.1.1, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER THE FOLLOWING:

- A. SHOP DRAWINGS, DETAILS, SPECIFICATIONS, FIRE SUPRESSION CALCULATIONS, WATER SUPPLY DATA, AND EQUIPMENT DATA SHEETS, FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM TO BE INSTALLED.
- B. SHOP DRAWINGS, DETAILS, SPECIFICATIONS, EQUIPMENT DATA SHEETS, ETC. ON ALL COMPONENTS AND DEVICES TO BE INSTALLED AS PART OF THE AUTOMATIC FIRE ALARM SYSTEM
- C. THE SHOP DRAWING SUBMISSION MUST BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF DELEWARE.

FOR INFORMATION **ONLY (BY OTHERS)**

FP-01



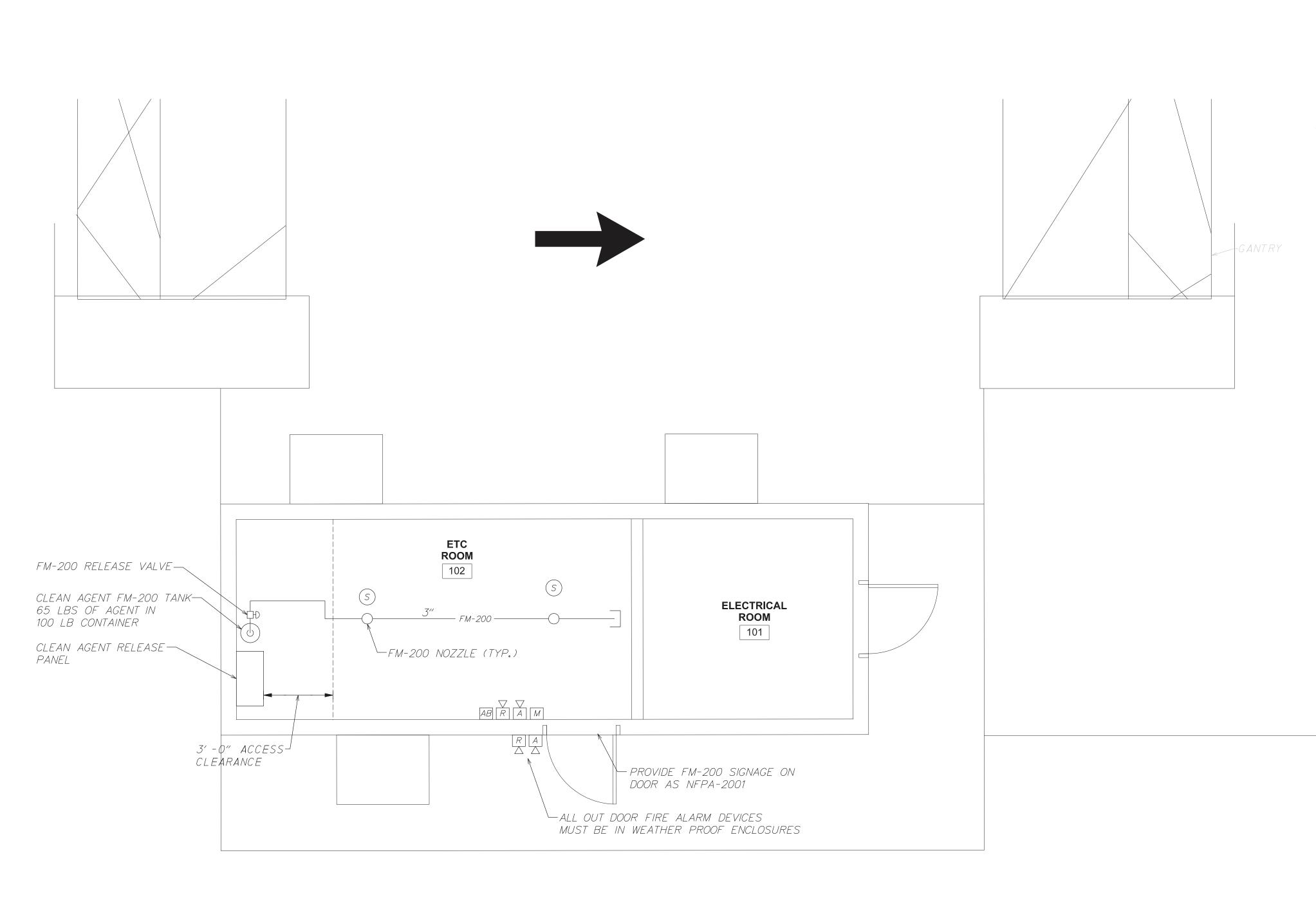
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| ŝ | | CONTRACT | BRIDGE NO. | | SHEET NO. |
|---|---------------------|------------|-------------------------|--------------------|-------------|
| | US 301 | T200811301 | | FIRE PROTECTION | 830 |
| | MARYLAND STATE LINE | COUNTY | COUNTY DESIGNED BY: MLW | HUT PLAN 301 SB | TOTAL SHTS. |
| | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: DWF | | 850 |

FP-02

FOR INFORMATION ONLY (BY OTHERS)

GANTRY





DELAWARE DEPARTMENT OF TRANSPORTATION

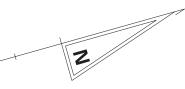
ADDENDUMS / REVISIONS

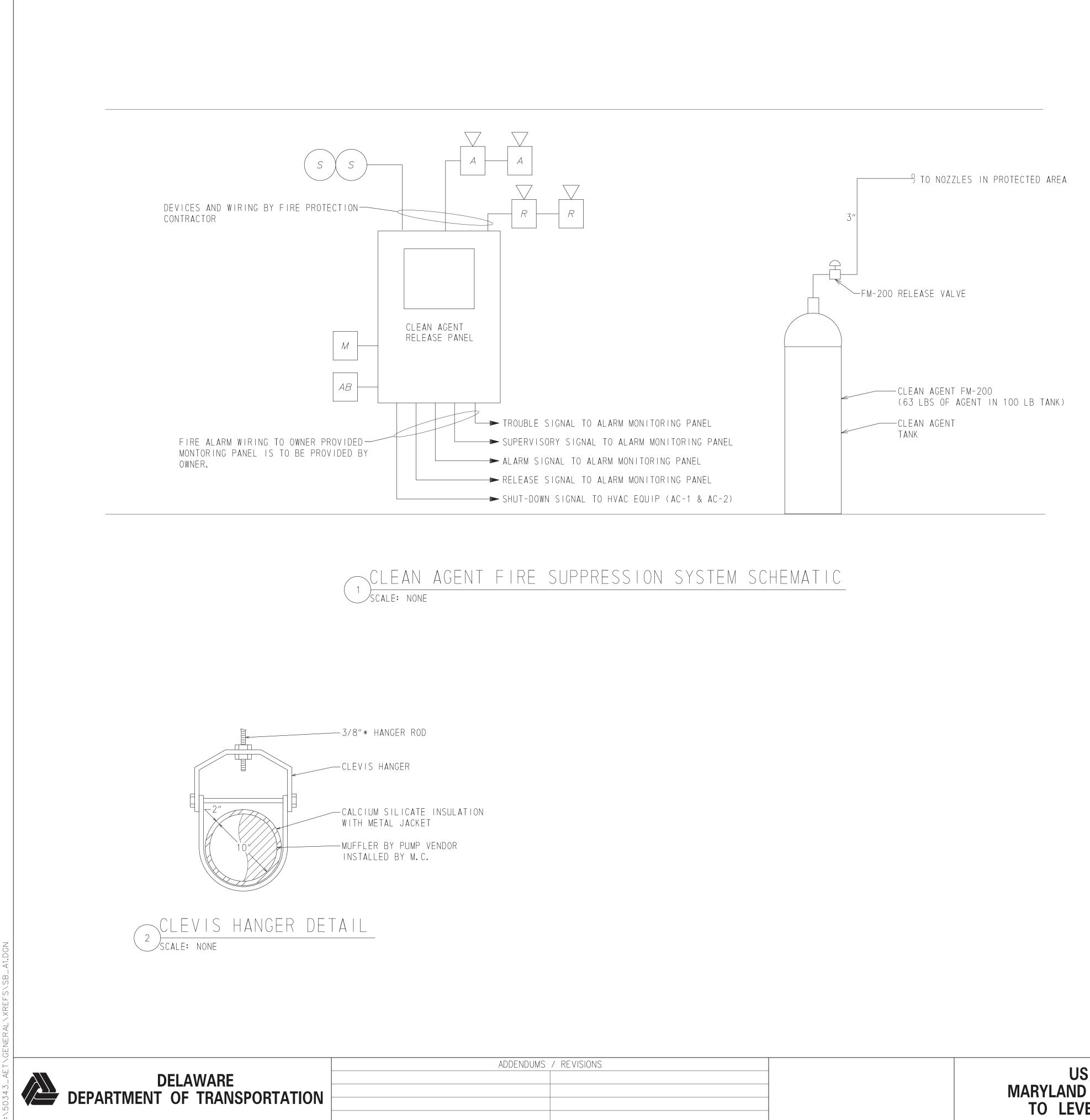
FIRE PROTECTION HUT PLAN 301 NB scale: 3/8" = 1'-0"

| S | | 110 001 | CONTRACT | BRIDGE NO. | | SHEET NO. |
|---|--|---------------------------------------|------------|-------------------------|-----------------|-------------|
| | | US 301 | T200811301 | | FIRE PROTECTION | 831 |
| | | MARYLAND STATE LINE TO LEVELS ROAD | COUNTY | COUNTY DESIGNED BY: MLW | | TOTAL SHTS. |
| | | | NEW CASTLE | CHECKED BY: DWF 301 NB | 301 NB | 850 |

FP-03

FOR INFORMATION ONLY (BY OTHERS)





| <u>SE</u> | QUENCE | OF O | PER | PAT/c |
|-----------|-----------|-------|------|-------|
| UF | PON THE | PULLI | NG | OF |
| 1. | SEND ALA | ARM . | SIGN | VAL |
| 2. | SEND SIG | GNAL | TO | SH |
| 3. | RING ALA | ARM I | HOR | 'N A |
| 4. | ARM THE | | IK V | AL I |
| 5. | AT THE | END (| OF | 30 |
| 6. | SEND SK | GNAL | TO | TAI |
| UF | PON THE | TRIPF | PING | OF |
| 1. | SEND ALA | ARM . | SIGN | VAL |
| 2. | RING ALA | ARM A | HOR | 'N A |
| UF | PON THE | TRIPF | PING | OF |
| 1. | ARM THE | TAN | K V | 'AL V |
| 2. | SEND SIC | GNAL | TO | SH |
| 3. | AT THE I | END (| OF | THE |
| 4. | SEND SK | GNAL | TO | TAN |
| UF | PON RECIE | VING | SIC | GNAL |
| 1. | DISARM 1 | ANK | VAL | VE |

| VS | | CONTRACT | BRIDGE NO. | | SHEET NO. |
|----|---------------------------------------|------------|--------------------|---------------------|-------------|
| | US 301 | T200811301 | | FIRE PROTECTION | 832 |
| | MARYLAND STATE LINE TO LEVELS ROAD | COUNTY | - DESIGNED BY: MLW | DETAILS & SCHEDULES | TOTAL SHTS. |
| | IU LEVELS NUAD | NEW CASTLE | CHECKED BY: DWF | | 850 |

TIONS

A MANUAL PULL STATION THE CLEAN AGENT RELEASE PANEL SHALL: TO MAIN BUILDING FIRE ALARM PANEL HUT-DOWN HVAC EQUIPMENT AND STROBES LVE AND INITIATE 30 SECOND WAITING PERIOD SECOND WAITING PERIOD RING RELEASE HORN AND STROBE ANK VALVE TO RELEASE AGENT F ONE SMOKE DETECTOR THE CLEAN AGENT RELEASE PANEL SHALL: TO MAIN BUILDING FIRE ALARM PANEL AND STROBES. F A SECOND SMOKE DETECTOR THE CLEAN AGENT RELEASE PANEL SHALL: LVE AND INITATE 30 SECOND WAITING PERIOD. HUT DOWN HVAC EQUIPMENT AND DE-ENERGIZE ANY DOOR OPENERS/HOLDERS. E 30 SECOND WAITING PERIOD RING RELEASE HORN AND STROBES ANK VALVE TO RELEASE AGENT

AL FROM MANUAL ABORT SWITCH THE CLEAN AGENT RELEASE PANEL SHALL:

FOR INFORMATION **ONLY (BY OTHERS)**

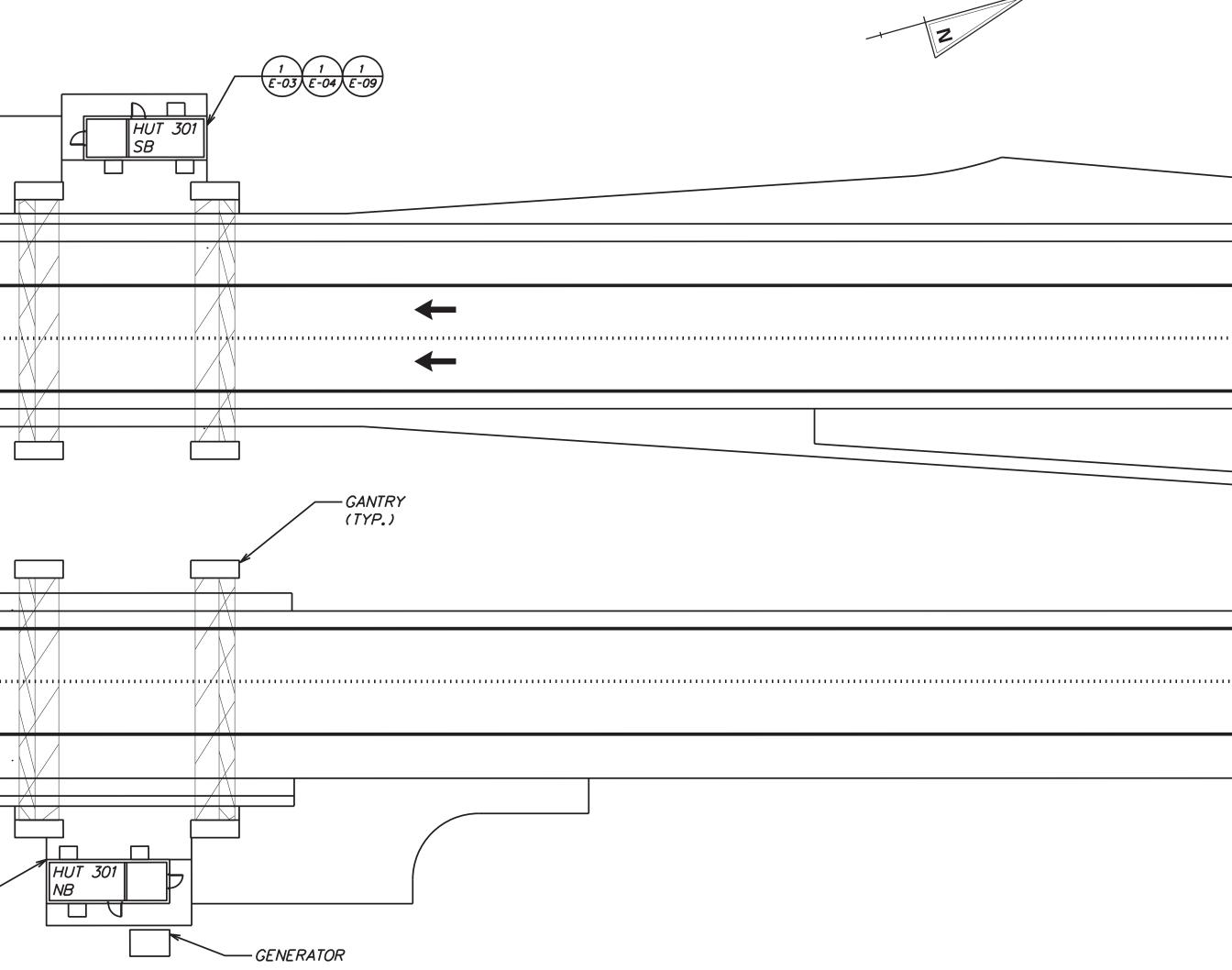
FP-04

| | TE LIGHTING FIXUTRE SCHEDULE FOR FIXTURE TYPES) CIRCUIT 2x2 FLUORESCENT FIXTURE FIXTURE TYPE CONTROL DEVICE | IG S TR WP | POWER: SINGLE RECEPTACLE (NEMA 5-20R) RECEPTACLE WIRED TO GROUND ISOLATED GROUND SWITCHED TAMPER RESISTANT WEATHER RESISTANT RECEPTACL WEATHER RESISTANT RECEPTACL | E W/IN-USE COVER (| WET LOCATION | , | E GROUND ROD EXOTHERMIC WELD CONNECTION MECHANICAL CONNECTION | V | | | <u>ABBREVIATIONS</u> | <u>z</u> | | | |
|---------------------------------------|---|---------------------|--|--------------------|-----------------------|--|--|---|--|------------------------|--------------------------------|---|-----------------------------|--|-----------------------------------|
| · | 2x4 FLUORESCENT FIXTURE | ₽ | DUPLEX RECEPTACLE (NEMA 5-20R) | | , <i>Uruyu</i> i LU | | (BOLTED OR COMPRESSION) | | | | | AMPERE | MC | METAL CLAD | |
| | 4' FLUORESCENT FIXTURE | | DOUBLE DUPLEX RECEPTACLE | | | | BARE COPPER CONDUCTOR EXI | POSED | IISCELLANEOUS: | | AFF | ALTERNATING CURRENT ABOVE FINISHED FLOOR | MCB MCC | MAIN CIRCUIT BREAKER MOTOR CONTROL CENTE | R |
| | 8' FLUORESCENT FIXTURE | | GROUND FAULT CIRCUIT INTERRUPTER (| DUPLEX NEMA 5-20R |) | | BARE COPPER CONDUCTOR BUI EMBEDDED IN CONCRETE | IRIED OR | EDH EQUIPMENT IDENTIFICATION | | AHJ | ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION | MFR MI | MANUFACTURE MINERAL INSULATED | |
| | LIGHT FIXTURE FOR EMERGENCY ILLUMINATION | - | SPECIAL PURPOSE RECEPTACLE (NEMA | | | | GROUND BUS | | SECTION IDENTIFICATION | v | AIC AL | AMPERE INTERRUPTING CAPACITY ALUMINUM | MLO MOA | MAIN LUG ONLY MULTI-OUTLET ASSEMBL | |
| 0 | CEILING MOUNTED DOWN LIGHT | س | RECEPTACLE FLOOR MOUNTED | | 0,20, | | | A E5 | A SECTION NOMENCLATURE E5 SHEET NUMBER ON W | | ATS AUTO | AUTOMATIC TRANSFER SWITCH AUTOMATIC | MOD MS | MOTOR OPERATED DAMI MOTOR STARTER | |
| ΞЮ | WALL MOUNT FIXTURE | | SPECIAL PURPOSE RECEPTACLE FLOOR | Mounted (Nema | <u>ONE LINE DIA</u> | ACRAM: | | SITE WORK | BLDG PLANS | | BFG | AMERICAN WIRE GAUGE BELOW FINISHED GRADE | MT MTD | MANUAL TRANSFER SWI MOUNTED | ICH |
| | TRACK LIGHTING | | CONFIGURATION AS NOTED) | | ▲ | | E DRAWOUT CIRCUIT BREAKER | | 2 DETAIL IDENTIFICATION | | | BUILDING BOTTOM OF STEEL | MV N/A | MEDIUM VOLTAGE NOT APPLICABLE | |
| | POLE STANDARD LIGHT FIXTURE (ONE LUMINAIRE INDICATED) | <u> </u> | MULTIOUTLET ASSEMBLY: LENGTH, TYPE OF RECEPTACLES AS NOTED | AND QUANTITY | 52 ¥ | | | | E5 DETAIL NOMENCLATURE SHEET NUMBER ON WH | HICH DETAIL IS SHOWN | CB | CONDUIT CIRCUIT BREAKER | NC NEC | NORMALLY CLOSED NATIONAL ELECTRICAL C | ODE |
| a a a a a a a a a a a a a a a a a a a | LIGHTING BOLLARD | P | POWER POLE | | 朱 | I OW VOLTAGE D | DRAWOUT CIRCUIT BREAKER | | C COMMUNICATION | | CP | CLOSED CIRCUIT TELEVISION CONTROL PANEL | NEUT NIC | NEUTRAL NOT IN CONTRACT | |
| | EXIT SIGN FIXTURE (SINGLE FACE UNIVERSAL MOUNT INDICAT | | WALL BOX FOR MODULAR FURNITURE W | VHIP | | - AMP FRAME | | | E ELECTRIC | | CT | CONTROL POWER TRANSFORMER CURRENT TRANSFORMER | NO. No. | NORMALLY OPEN NUMBER | |
| | EXIT SIGN FIXTURE W/DIRECTIONAL ARROWS (DOUBLE FACE UNIVERSAL MOUNT INDICATED) | | JUNCTION BOX | | | — AMP TRIP — ELECTRICALLY C | PERATED | | T TELEPHONE | | DISC | COPPER DISCONNECT | NIS PF | NOT TO SCALE POWER FACTOR | |
| S | SWITCH, SINGLE POLE | | NON FUSED SAFETY SWITCH | |) | CIRCUIT BREAKE | R | | OHE OVERHEAD ELECTRIC | | DN | DIVISION DOWN | PH PM DN" | PHASE POWER MONITOR | |
| S Sz | SWITCH, 3-WAY | (3R) 30A- | -SWITCH RATING ENCLOSURE NEMA RATING | | | ST - SHUNT TRI | IP | | OHT OVERHEAD TELEPHONE | | EC | DISCONNECT SWITCH ELECTRICAL CONTRACTOR | PNL PT | PANEL POTENTIAL TRANSFORME | R |
| | SWITCH, 4-WAY | ا ج | FUSED SAFETY SWITCH | | <u> </u> | GF - GROUND F EO - ELECTRICA | FAULT | | Ø UTILITY POLE | | EF | ELECTRICAL METALLIC TUBING EXHAUST FAN | PVC RECP | POLYVINYL CHLORIDE RECEPTACLES | |
| 54 | SWITCH, DIMMER | | SWITCH RATING | | | | DLATION OR SAFETY SWITCH | | HANDHOLE | | EGC | ELECTRIC CABINET HEATER EQUIPMENT GROUNDING CONDUCTOR | RGS RTD | RIGID GALVANIZED STEE RESISTANCE TEMPERATI | URE DETECTOR |
| SD SD | SWITCH WITH PILOT LIGHT | \square | MAGNETIC MOTOR STARTER | | 7 | , | | | MANHOLE MH-x | | EWC | ELECTRIC UNIT HEATER ELECTRIC WATER COOLER | RVAT RVSS | REDUCED VOLTAGE AUT REDUCED VOLTAGE SOL | ID STATE |
| | TIME CLOCK | | — NEMA SIZE — ENCLOSURE NEMA RATING | | | FUSED CUTOUT | | | CONDUIT FEEDERS & BRANCH CIRCUITS | | FACP | FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS | SN SN | SURGE CAPACITOR SOLID NEUTRAL | |
| | DIRECTIONAL MOTION DETECTOR LIGHT CONTROL | | | R | ſ | | | | CONDUIT | | FC | FAILS CLOSED | STP | SURGE PROTECTIVE DE SHIELDED TWISTED PAIL | 7 |
| | MULTI-DIRECTIONAL MOTION DETECTOR LIGHT CONTROL | | - NEMA SIZE | | Ľ | FUSED LOAD BA | REAK SWITCH | | CONDUIT - EMBEDDED I | N FLOOR OR EARTH | FU | FEED THROUGH FUSE FIBERGLASS REINFORCED EPOXY | STT SW SWBD | SHIELDED TWISTED TRIF SWITCH SWITCHBOARD | |
| l OS | CEILNG OCCUPANCY SENSOR | <i>டே</i> து | ENCLOSED CIRCUIT BREAKER | | | | | | | | | FURNISHED WITH EQUIPMENT | SWBD TC TOS | TRAY-CABLE | |
| PP | POWER PACK FOR CEILING OCCUPANCY SENSOR | \square | CONTACTOR | | (⊒- □ | MEDIUM VOLTAG | E MOTOR STARTER | | CONDUIT TURNED DOWN | | | GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND | TUS TTB TTC | TOP OF STEEL TELEPHONE TERMINAL E TELEPHONE TERMINAL (| |
| VS | WALL VACANCY SENSOR | S _T | TIME SWITCH | | Ŧ | | R STARTER. NUMERAL INDICATE. | S NEMA SIZE | CONDUIT CAPPED | | | HIGH INTENSITY DISCHARGE HORSEPOWER | TYP | TYPICAL UNDERWRITERS LABORA | |
| <u> </u> | SPECIAL PURPOSE LIGHT SWITCH; DESCRIPTION OF | SM | MANUAL MOTOR SWITCH (WITHOUT OVER | RLOADS) | \boxtimes , | | OTHERWISE NOTED. LTAGE REVERSING | | CIRCUIT HOME RUN | | | HIGH PRESSURE SODIUM HEAT-VENT-AIR CONDITIONING | UH UON | UNIT HEATER UNIESS OTHERWISE NO | |
| | SWITCH WILL BE AS NOTED ON DRAWINGS | S _{MT} | MANUAL MOTOR STARTER (WITH THERM | | | 2S - 2 SPEED | NG VOLTAGE AUTO TRANSFORME | ER | TO FEEDER IDENTIFICATION | | IG | ISOLATED GROUND INDUSTRIAL | UPS | UNINTERRUPTIBLE POWE VOLT | |
| | PHOTOELECTRIC CONTROL | S _{MP} | MANUAL MOTOR SWITCH WITH PILOT LIG | ΉT | | | ED VOLTAGE SOLID STATE | | (SEE FEEDER LEGEND | | JIC | JOINT INDUSTRIAL COUNCIL KILOVOLT | VA VAR | VOLT AMPERE VOLT AMPERE REACTIVE | - |
| | LIGHTING CONTACTOR: ——— REPRESENTS LIGHTING CONTACTOR IDENTIFICATION | hs | CONTROL STATION, TYPE AS NOTED | | | CAPACITOR | | | (3)*8 AWG, (1)*10 GRD-1"C | | KVA | KILOVOLT AMPERE KILOVARS | W W WD | WIRE WEATHERPROOF | |
| | LIGHTING CONTACTOR REMOTE CONTROL: | € □ | MUSHROOM SWITCH | | VFD | VARIABLE FREQ | UENCY DRIVE | | 5 | NO SIZE IDENTIFICATION | KW | KILOVARS KILOWATT LIGHTNING ARRESTOR | WR XFMR | WEATHER RESISTANT TRANSFORMER | |
| LC1- | REPRESENTS LIGHTING CONTACTOR TO BE CONTROLLED | | MOTOR (HORSEPOWER INDICATED ON PL | | - miles | POWER TRANSFO | ORMER | | SEE GENERAL NOTE 9 | NO SIZE IDENTIFICATION | LC | LIGHTING CONTACTOR LIGHTING | лти 1-РН 3-РН | SINGLE PHASE THREE PHASE | |
| | | | TRANSFORMER | ₽ | | | | | | | 210 | | 5 - 11 | | |
| EMERGENCY | LIGHTING: | | GENERATOR | | | - CONNECTION | | | | | | | | | |
| | EMERGENCY BATTERY PACK FIXTURE WITH TWO HEADS | MOD | MOTOR OPERATED DAMPER | 4 | | SHIELDED ISOLA | TION TRANSFORMER | <u>VIRING METHODS:</u> A. INTERIOR 1 EXPOSI | D AREAS NOT SUBJECT TO PHYSICAL ABUSE | -FMT | | | | | |
| TD- | TD-TIME DELAY RESET | | THERMOSTAT | | 480/12 |) POTENTIAL TRAN — RATIO | ISFORMER | 2. EXPOSI | TO AREAS SUBJECT TO ABUSE-RIGID STEEL (OR PIT-RIGID STEEL CONDUIT. | CONDUIT. | | | | | |
| 4~~ | REMOTE HEADS FOR EMERGENCY BATTERY PACK | | UNINTERRUPTIBLE POWER SUPPLY | | 2 | — RATIO — NUMBER REQUIF | RED | | ALED IN STUD WALL OR ABOVE SUSPENDED (| CEILING-EMT OR TYPE | | | | | |
| - | UNIT | | SURGE PROTECTIVE DEVICE | | ¢ | CURRENT TRANS | GFORMER | 5. CONCE | ALED IN MASONRY WALLS - EMT OR RIGID ST | | | | | | |
| FIRE ALARM | <u>SYSTEM:</u> FIRE ALARM CONTROL PANEL | ţ | UNIT HEATER | | <u>−</u> 600/5- 2- | ← RATIO — NUMBER REQUIR | RED E | B. TUNNEL 1 RIGID S | TEEL CONDUIT | <u>,</u> | | : HALL BE PERFORMED IN ACCORDANCE WITH BY THE DELAWARE STATE FIRE MARSHALL. | | ELECTRICAL CODE (NFPA- | 70) AS ADOPTED |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL | <u>COMMUNICAT</u> | TIONS: | | ⊈ | GROUND FAULT | CURRENT TRANSFORMER | C. EXTERIOR | | | | BI THE DELAWARE STATE FIRE MARSHALL. | | | |
| L F | FIRE ALARM MANUAL PULL STATION | S | CEILING SPEAKER | | ି କ | MOTOR, NUMBER | ? INDICATES HORSE POWER | | STEEL CONDUIT | | AND STRUCTUR | RAL FEATURES SHOWN ON THESE DRAWINGS RAL DRAWINGS FOR BUILDING DIMENSIONS, SU UILDING ELEMENTS. | ECTIONS, ELEV | ATIONS, PARTITION RATINGS | S AND CONSTRUCTION |
| | SMOKE DETECTOR (PHOTOELECTRIC U.O.N.) | শ | WALL MOUNTED SPEAKER | | | GENERATOR | Ľ | D. BELOW GRAU | DE TE ENCASED-SCHEDULE 40 PVC | | | OCATIONS ARE SHOWN FOR REFERENCE ON | | | |
| | | <u>চাহ</u> | WALL MOUNTED DOUBLE SPEAKER | | <u>ি</u> বিগ্লু | | IC TRANSFER SWITCH | | BURIED-SCHEDULE 40 PVC | | | ND EQUIPMENTPLANS FOR EQUIPMENT LOCAT | | J ARCHITECTURAL, HVAC, P | LUMBING, FIRE |
| | HEAT DETECTOR (FIXED TEMP U.O.N.) — RATE OF RISE | S | POLE MOUNTED SPEAKER | | ATS | | TRANSFER SWITCH | E. PENETRATION 1. UP TH | NS ROUGH GRADE-PVC COATED RIGID STEEL | | 4. THE DRAWING | GS ARE DIAGRAMMATIC AND INDICATE THE G SUPPORT, OFFSET, FITTING OR COMPONENT. | ENERAL ARRAI | NGEMENT OF SYSTEMS AND MATERIALS FOR A COMPL | WORK AND DO NOT |
| | DUCT SMOKE DETECTOR | 55 | POLE MOUNTED DOUBLE SPEAKER | | A | METER A - AMMETE V - VOLTME | | | GH FOUNDATION WALLS-PVC COATED RIGID ST | TEEL | | AND FIELD VERIFY ALL DIMENSIONS. | | | |
| FS | SPRINKLER SYSTEM WATER FLOW SWITCH | | VOICE DATA OUTLET | | | W - WATTM | | | | | 5.COORDINATE | ALL WORK WITH OTHER TRADES TO AVOID | INTERFERENCE | S. | |
| TS | SPRINKLER SYSTEM TAMPER SWITCH | | DATA OUTLET — INDICATES NUMBER OF PORTS | | | WH - WATT KWH - KILO KVAR - KILO | WATT HOUR | | | | 6. ALL MOTOR S | SAFETY SWITCHES, LOCAL DISCONNECTS, MOT INTRACTOR (DIVISION 26) UNLESS OTHERWISE | TOR STARTERS ד NOTED אי | AND DRIVES SHALL BE P THE DRAWINGS AS FURNISH | ROVIDED BY THE |
| F | FIRE ALARM SIRUDE | | FLOOR MOUNTED OUTLET | | | VAR - VAR | | | | | (FWE). | | | | |
| , (75) | _ CANDELL RATING (15 U.O.N.) | | CABLE TELEVISION OUTLET | | | | R FACTOR METER | | | | | ATIONS THROUGH FLOORS, WALLS AND RATE RIALS TO MAINTAIN THE RATING OF THE SEA | | SHALL BE SEALED WITH U | IL LISTED FIRE |
| | FIRE ALARM SPEAKER/STROBE | | TELEPHONE OUTLET | | DPM | DIGITAL POWER | METER | | | | | NT GROUNDING CONDUCTOR SHALL BE PROVI | | RY FEEDER AND BRANCH | CIRCUIT. |
| | FIRE ALARM SPEAKER | P- W- | - PAY PHONE WALL MOUNTED | | AS | METER TRANSFE AS - AMME | | | | | 9. ALL WIRING S | SHALL BE COPPER. WHERE CONDUCTOR SIZ | ES ARE NOT I | NDICATED ON THE DRAWING | SS, MINIMUM WIRING |
| | FIRE ALARM HORN/STROBE | C~• | WALL BOX FOR SYSTEMS FURNITURE | VOICE/DATA WHIP | Ĺ | | IETER SWITCH | | | | SHALL BE 2 N GROUND FOR T | IO. 12 AWG & 12 GRD FOR SINGLE PHASE C THREE PHASE CIRCUITS. WIRE SIZE FOR 20 | IRCUITS LESS DAMP-120 VO | THAN 75 FEET AND 3 NO. LT BRANCH CIRCUITS WITH | . 12 & NO. 12 CIRCUIT LENGTH |
| MM | MONITOR MODULE | [<i>TTC</i>] | TELEPHONE TERMINAL CABINET | | SPD | SURGE PROTECT | TIVE DEVICE | | | | GREATER THAN THAN 125 FEE | N 75 FEET SHALL BE (2)*10, (1)*10 GRD IN T SHALL BE (2)*8, (1)*8 GRD IN ¾" C. BI | ¾C. BRANCH RANCH CIRCUI | I CIRCUITS WITH CIRCUIT L TS WITH CIRCUIT LENGTH (| ENGTH GREATER GREATER THAN 200 |
| СМ | CONTROL MODULE | | CONTROL/INTRUSION ALARM: | | | LIGHTNING ARRE | STOR | | | | FEET SHALL BU SHALL BE (2)* | E (2)*6,(1)*6 GRD IN ¾" C. BRANCH CII *4,(1)*4 GRD IN 1" C. SHORT TAPS OFF TI | RCUITS WITH (| CIRCUIT LENGTH GREATER | THAN 250 FEET |
| RTI | REMOTE-TEST-INDICATOR | AICP AC | CESS/INTRUSION ALARM CONTROL PANEL | | ~ <u>k</u> ~ | KEY INTERLOCK | | | | | TO BE NO. 12 | | 2 - 2 - 2 - 2 | | |
| DH | MAGNETIC DOOR HOLDER | | OR CONTACT | | | FUSE | | | | | | | | | |
| | CARBON MONOXIDE DETECTOR | | CESS KEYPAD | | e | ELECTRONIC PO | WER FUSE | | | | | | | | |
| SD | SMOKE DAMPER | | CESS CARD READER | | f | DRAWOUT DEVIC | E | | | [| | | | ONLY (BY | |
| DACT | DIGITAL ALARM COMMUNICATOR TRANSMITTER | | DTION DETECTOR | | * | GROUND | - | | | SYMBOLS AND ABBREN | VIATIONS ARE FO | OR REFERENCE ONLY AND DO NOT | | | |
| | | CCTVACLO | OSED CIRCUIT TELEVISION CAMERA | | ÷ | | | | | | | | | 8⁄07/15 | E–01 |
| | | | ADDENDUMS / | REVISIONS | | | | | | | CONTRACT | BRIDGE NO. | | | SHEET NO. |
| | DELAWARE | | | | | | | | US 301 MARYLAND STATE | | T200811301 | | | ELECTRICAL GEND, SYMBOLS | 833 |
| DEP | PARTMENT OF TRANSPORTATION | | | | | | | | TO LEVELS RO | | COUNTY | | | ABBREVIATIONS | TUTAL SHIS. |
| | | | | | | | | | IU LEVELS RU | יהע | NEW CASTLE | E CHECKED BY: RAK | | | 850 |

| r amp | AMPERE | МС | METAL CLAD |
|----------|----------------------------------|------|--|
| | ALTERNATING CURRENT | MCB | MAIN CIRCUIT BREAKER |
| | | | |
| | ABOVE FINISHED FLOOR | MCC | MOTOR CONTROL CENTER |
| | ABOVE FINISHED GRADE | MFR | MANUFACTURE |
| | AUTHORITY HAVING JURISDICTION | MI | MINERAL INSULATED |
| | AMPERE INTERRUPTING CAPACITY | MLO | MAIN LUG ONLY |
| | ALUMINUM | MOA | MULTI-OUTLET ASSEMBLY |
| | AUTOMATIC TRANSFER SWITCH | MOD | MOTOR OPERATED DAMPER |
| 0 | AUTOMATIC | MS | MOTOR STARTER |
| | AMERICAN WIRE GAUGE | MT | MANUAL TRANSFER SWITCH |
| | BELOW FINISHED GRADE | MTD | MOUNTED |
| <u>,</u> | BUILDING | MV | MEDIUM VOLTAGE |
| | BOTTOM OF STEEL | N/A | NOT APPLICABLE |
| | CONDUIT | NC | NORMALLY CLOSED |
| | CIRCUIT BREAKER | NEC | NATIONAL ELECTRICAL CODE |
| / | CLOSED CIRCUIT TELEVISION | NEUT | NEUTRAL |
| | CONTROL PANEL | NIC | NOT IN CONTRACT |
| | CONTROL POWER TRANSFORMER | NO | NORMALLY OPEN |
| | CURRENT TRANSFORMER | No. | NUMBER |
| | COPPER | NTS | NOT TO SCALE |
| • | DISCONNECT | PF | POWER FACTOR |
| • | DIVISION | PH | PHASE |
| | DOWN | PM | POWER MONITOR |
| | DISCONNECT SWITCH | PNL | PANEL |
| | ELECTRICAL CONTRACTOR | PT | POTENTIAL TRANSFORMER |
| | ELECTRICAL METALLIC TUBING | PVC | POLYVINYL CHLORIDE |
| | ELECTRICAL METALLIC TOBING | RECP | RECEPTACLES |
| | ELECTRIC CABINET HEATER | RGS | RIGID GALVANIZED STEEL(CONDUIT) |
| | EQUIPMENT GROUNDING CONDUCTOR | RTD | RESISTANCE TEMPERATURE DETECTOR |
| , | | RVAT | |
| | ELECTRIC UNIT HEATER | RVSS | REDUCED VOLTAGE AUTOTRANSFORMER REDUCED VOLTAGE SOLID STATE |
| ρ | ELECTRIC WATER COOLER | | |
| P D | FIRE ALARM ANNUNCIATOR PANEL | SC | SURGE CAPACITOR |
| | FIRE ALARM CONTROL PANEL | SN | SOLID NEUTRAL |
| | FURNISHED BY OTHERS | SPD | SURGE PROTECTIVE DEVICE |
| | FAILS CLOSED | STP | SHIELDED TWISTED PAIR |
| | FEED THROUGH | STT | SHIELDED TWISTED TRIPLET |
| | FUSE | SW | SWITCH |
| | FIBERGLASS REINFORCED EPOXY | SWBD | SWITCHBOARD |
| | FURNISHED WITH EQUIPMENT | TC | TRAY-CABLE |
| | GROUND FAULT | TOS | TOP OF STEEL |
| 1 | GROUND FAULT CIRCUIT INTERRUPTER | TTB | TELEPHONE TERMINAL BOARD |
| | GROUND | TTC | TELEPHONE TERMINAL CABINET |
| | HIGH INTENSITY DISCHARGE | TYP | TYPICAL |
| | HORSEPOWER | UL | UNDERWRITERS LABORATORIES |
| _ | HIGH PRESSURE SODIUM | UH | UNIT_HEATER |
| С | HEAT-VENT-AIR CONDITIONING | UON | UNLESS OTHERWISE NOTED |
| | ISOLATED GROUND | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| | INDUSTRIAL | V | VOLT |
| | JOINT INDUSTRIAL COUNCIL | VA | VOLT AMPERE |
| | KILOVOLT | VAR | VOLT AMPERE REACTIVE |
| | KILOVOLT AMPERE | W | WIRE |
| R | KILOVARS | WP | WEATHERPROOF |
| | KILOWATT | WR | WEATHER RESISTANT |
| | LIGHTNING ARRESTOR | XFMR | TRANSFORMER |
| | LIGHTING CONTACTOR | 1-PH | SINGLE PHASE |
| | LIGHTING | 3-PH | THREE PHASE |
| | | | |

| AST REVISED: 3/12/2008 :\50343 – DELDOT US301\05 WORK\02 CAD\AET\GENERAL\XREFS\SB_A1.DGN | | | | |
|---|--|--|--|--|
| | | | | |

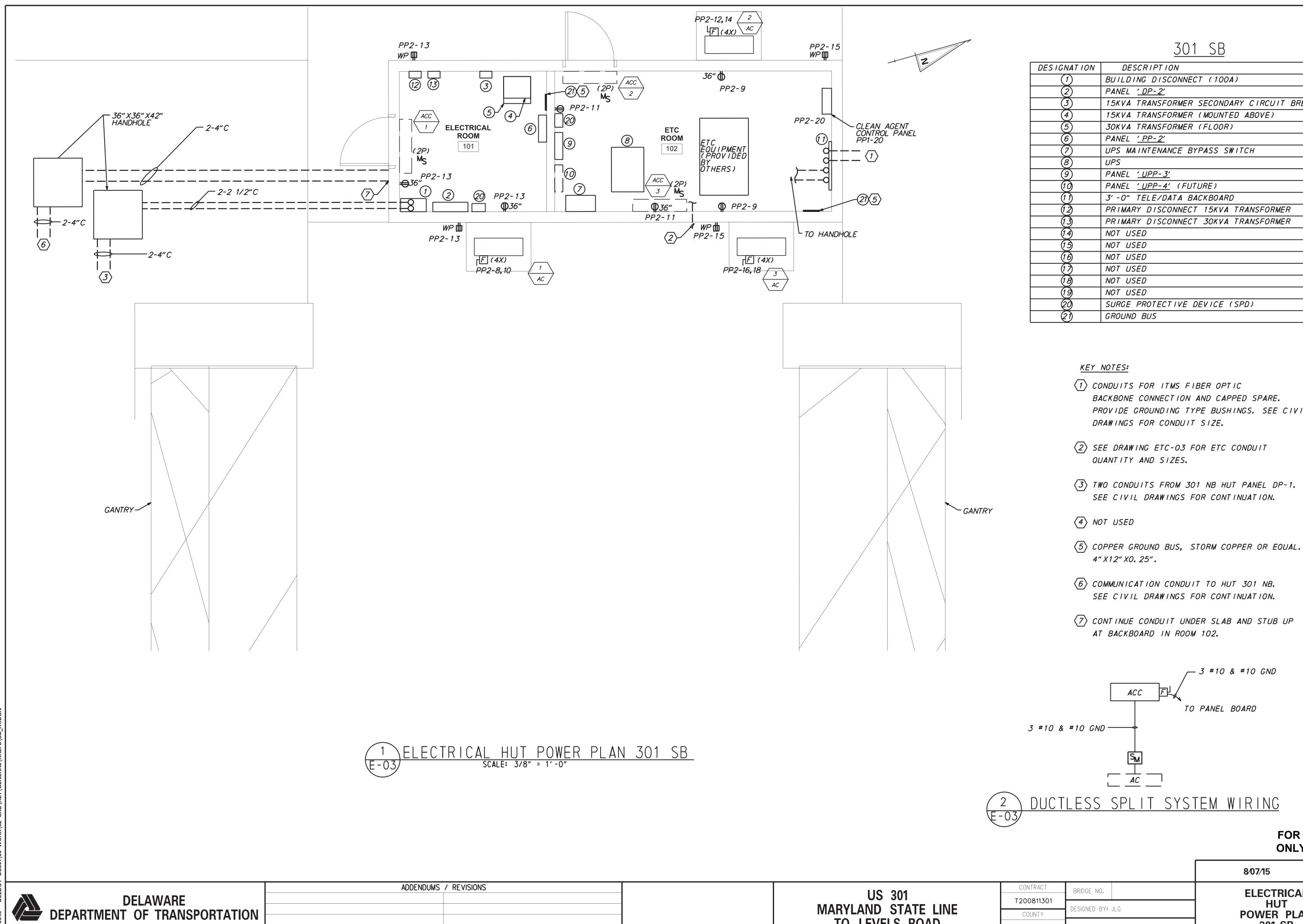
Lì C



<u>SITE PLAN</u> scale: 1" = 20'

| | | | | 8⁄07⁄15 | E–02 | 2 |
|-----|---------|-----------------------|------------------|------------|------|------------|
| ONS | | CONTRACT | BRIDGE NO. | | S | SHEET NO. |
| | | US 301 T200811301 | | ELECTRICAL | | 834 |
| | MARYLAN | COUNTI | DESIGNED BY: JLG | SITE PLAN | ТО | OTAL SHTS. |
| | TO LE | EVELS ROAD NEW CASTLE | CHECKED BY: RAK | | | 850 |

| | FOR INFORMATION ONLY (BY OTHERS) | | | | |
|---------|-------------------------------------|-----------|--|--|--|
| 8⁄07⁄15 | 8⁄07/15 E–02 | | | | |
| | - | SHEET NO. | | | |
| | | 834 | | | |



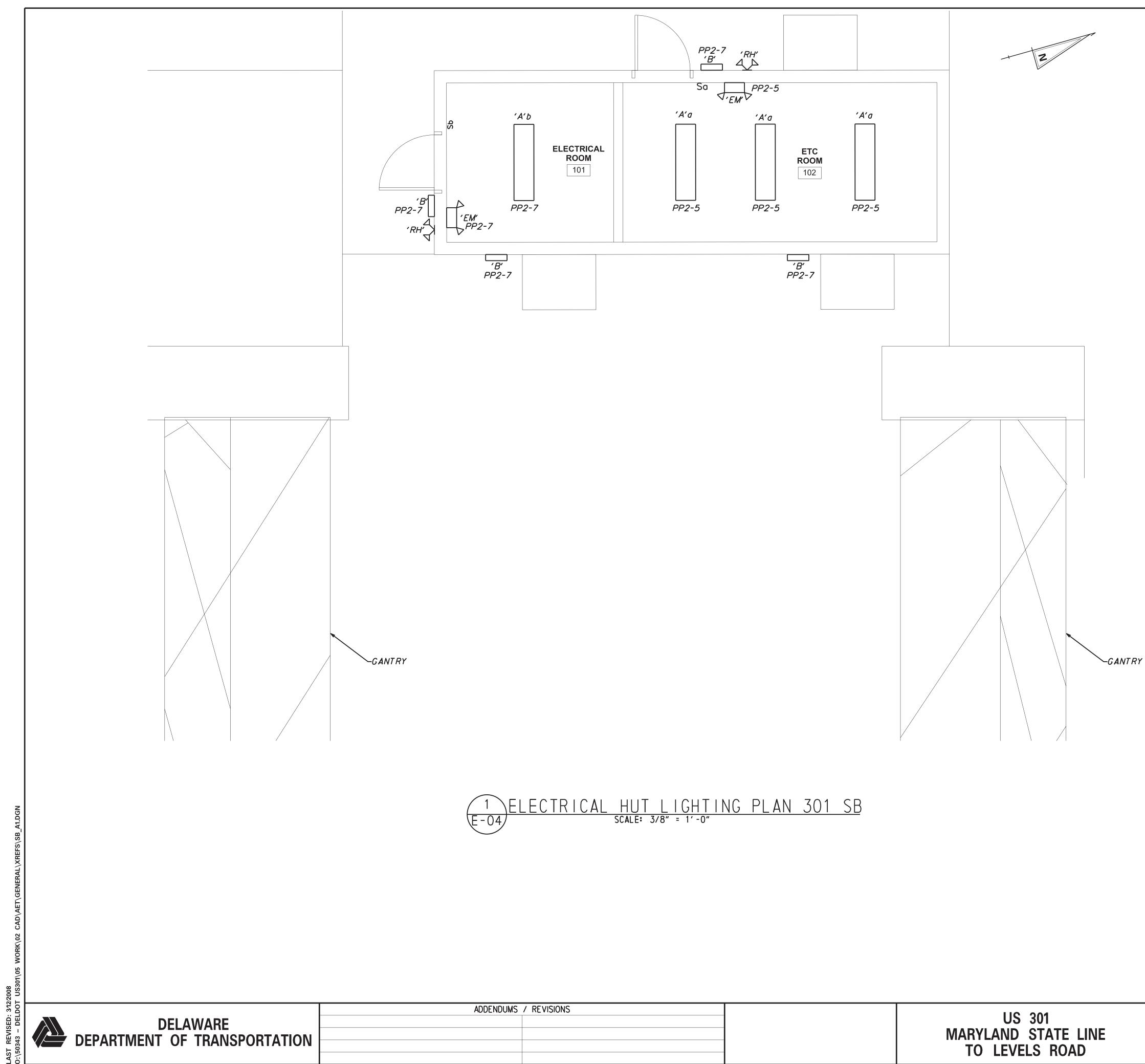
312

| | | | | 8⁄07⁄15 | E–03 |
|---|---------------------|------------|------------------|------------|-------------|
| S | | CONTRACT | BRIDGE NO. | ELECTRICAL | SHEET NO. |
| | US 301 | T200811301 | | HUT | 835 |
| | MARYLAND STATE LINE | COUNTY | DESIGNED BY: JLG | POWER PLAN | TOTAL SHTS. |
| | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: RAK | 301 SB | 850 |

| DESIGNATION | DESCRIPTION |
|-------------|---|
| | BUILDING DISCONNECT (100A) |
| 2 | PANEL <u>' DP-2'</u> |
| 3 | 15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER |
| 4 | 15KVA TRANSFORMER (MOUNTED ABOVE) |
| 5 | 30KVA TRANSFORMER (FLOOR) |
| 6 | PANEL <u>' PP-2'</u> |
| \bigcirc | UPS MAINTENANCE BYPASS SWITCH |
| 8 | UPS |
| 9 | PANEL <u>'UPP-3'</u> |
| 10 | PANEL <u>'UPP-4'</u> (FUTURE) |
| (1) | 3' -O" TELE/DATA BACKBOARD |
| 12 | PRIMARY DISCONNECT 15KVA TRANSFORMER |
| (13) | PRIMARY DISCONNECT JOKVA TRANSFORMER |
| (14) | NOT USED |
| 15 | NOT USED |
| 16 | NOT USED |
| | NOT USED |
| 18 | NOT USED |
| 19 | NOT USED |
| 20 | SURGE PROTECTIVE DEVICE (SPD) |
| <u>(</u>) | GROUND BUS |

- PROVIDE GROUNDING TYPE BUSHINGS. SEE CIVIL

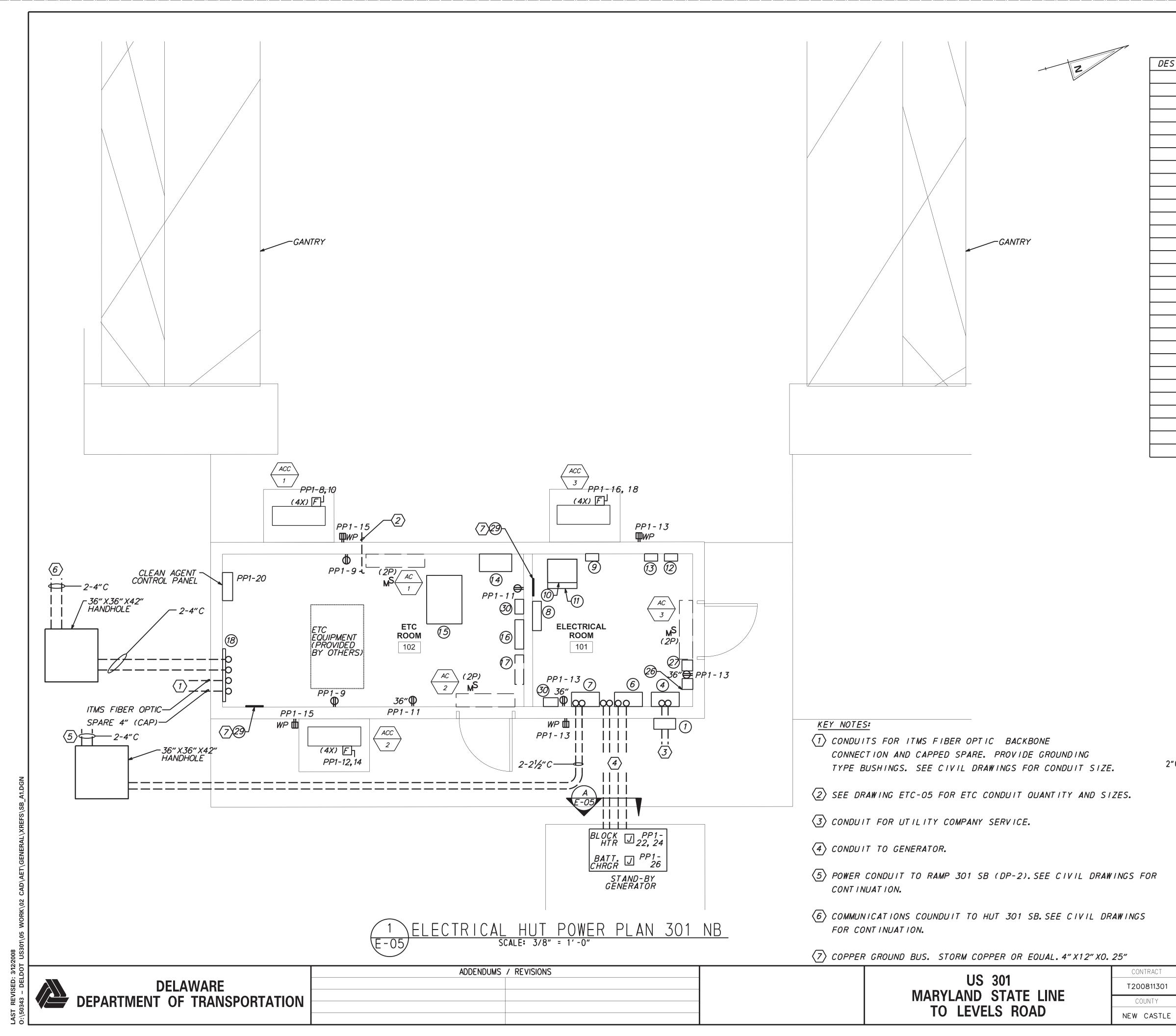
FOR INFORMATION **ONLY (BY OTHERS)**



| | | | | ONLY (B | Y OTHERS) |
|-----|---------------------|------------------------|------------------|----------------------|-------------------------|
| | | | | 8⁄07⁄15 | E–04 |
| ONS | US 301 | CONTRACT T200811301 | BRIDGE NO. | ELECTRICAL | SHEET NO. 836 |
| | MARYLAND STATE LINE | COUNTY | DESIGNED BY: JLG | HUT LIGHTING PLAN | |
| | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: RAK | 301 SB | 850 |

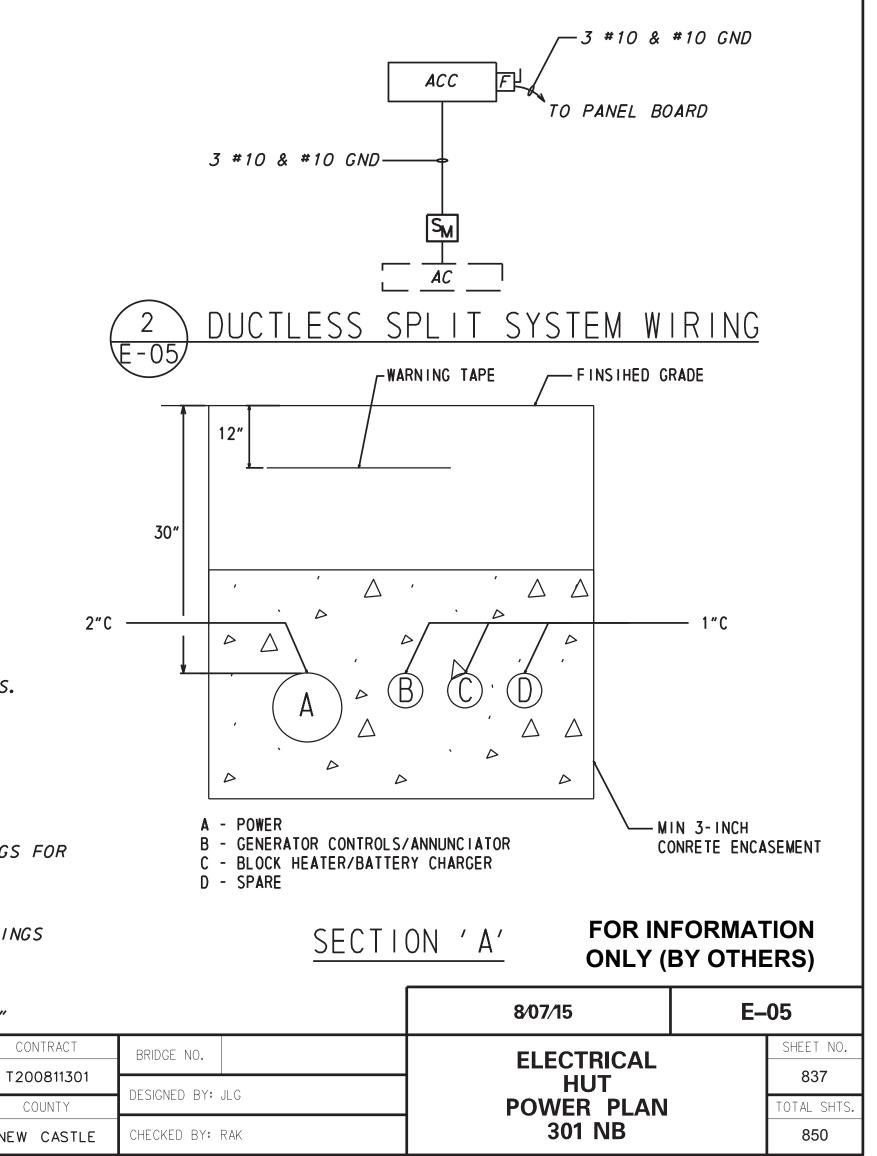
NOTES: 1. SEE DWG. E-10 FOR LUMINAIRE SCHEDULE.

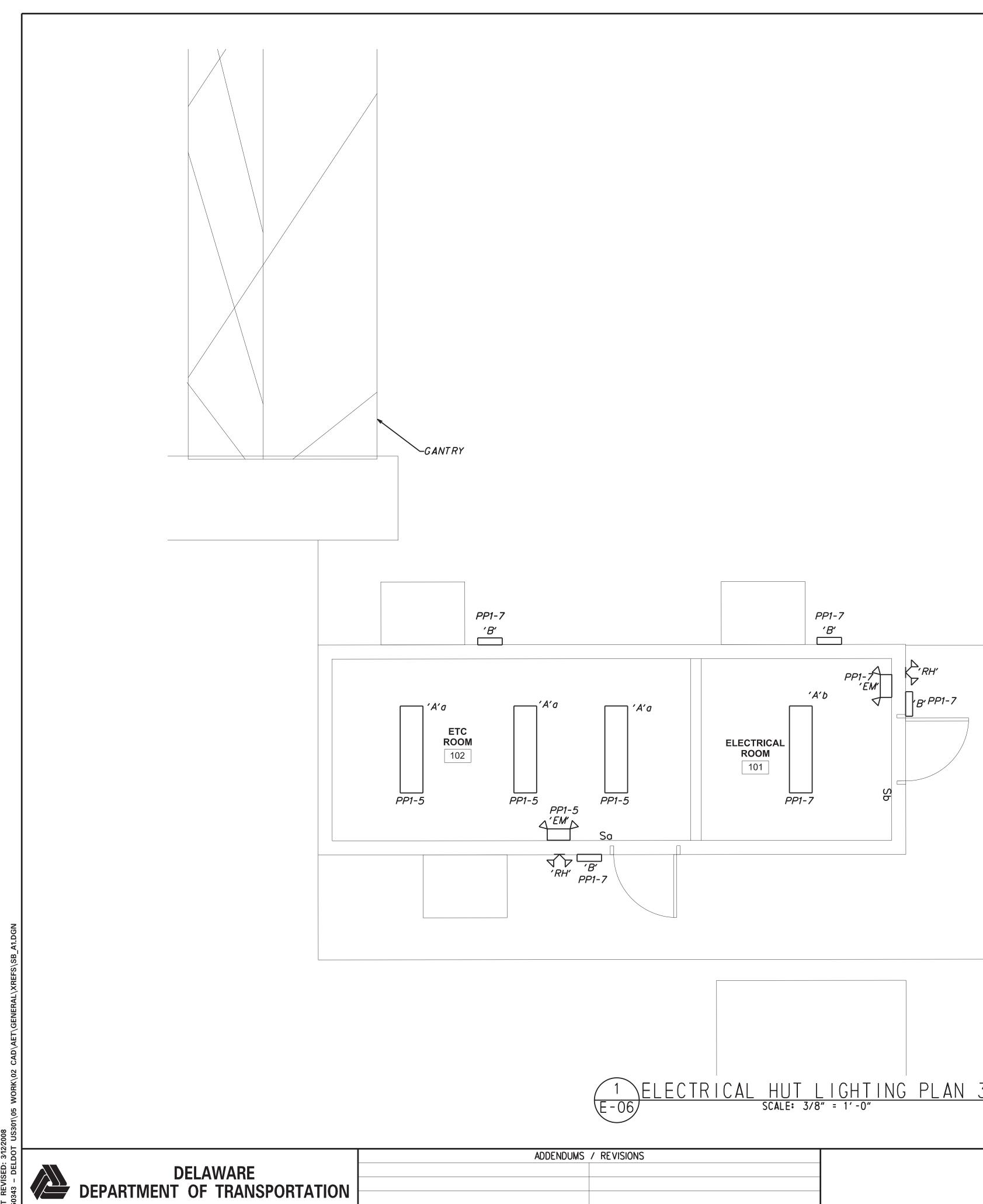
FOR INFORMATION



| <u>301</u> | NB |
|------------|----|
| | |

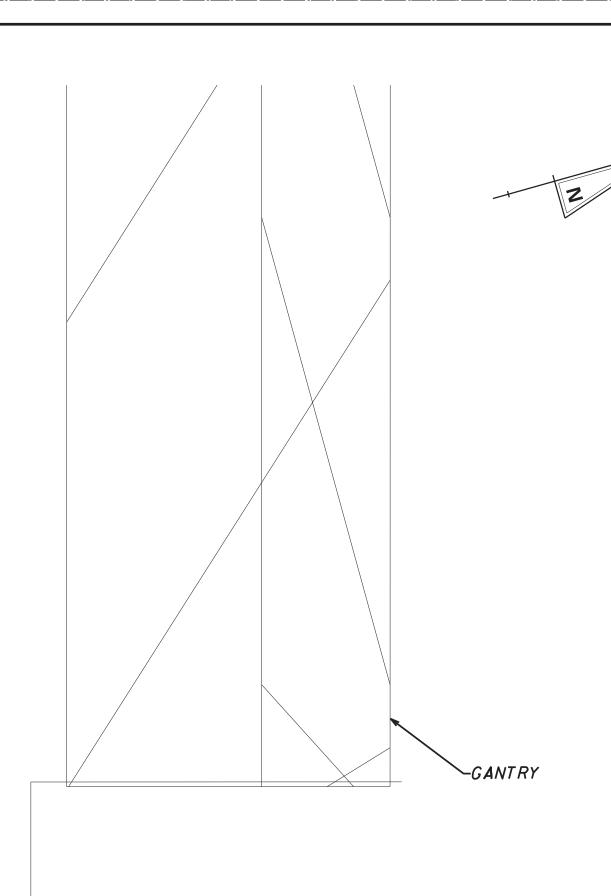
| DESIGNATION | DESCRIPTION |
|-------------|---|
| (1) | UTILITY COMPANY METER |
| (2) | NOT USED |
| (3) | NOT USED |
| (4) | SERVICE DISCONNECT (200A) |
| (5) | NOT USED |
| 6 | AUTOMATIC TRANSFER SWITCH |
| \bigcirc | PANEL <u>' DP-1'</u> |
| 8 | PANEL <u>'PP-1'</u> |
| 9 | 15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER |
| 10 | 15KVA TRANSFORMER (MOUNTED ABOVE) |
| | 30KVA TRANSFORMER (FLOOR) |
| (2) | PRIMARY DISCONNECT 15KVA TRANSFORMER |
| (3) | PRIMARY DISCONNECT JOKVA TRANSFORMER |
| (14) | UPS MAINTENANCE BYPASS SWITCH |
| (15) | UPS |
| (6) | PANEL <u>'UPP-1'</u> |
| \bigcirc | PANEL <u>'UPP-2'</u> (FUTURE) |
| (8) | 3' -O" TELE/DATA BACKBOARD |
| [19] | NOT USED |
| 20 | NOT USED |
| <u>(</u>) | NOT USED |
| 22 | NOT USED |
| 23 | NOT USED |
| 24 | NOT USED |
| 25 | NOT USED |
| 20 | GENERATOR ANNUNICIATOR |
| <u>()</u> | GENERATOR ESTOP |
| (8) | NOT USED |
| | GROUND BUS |
| 30 | SURGE PROTECTIVE DEVICE (SPD) |





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|---------------------|-----------------|---------------------|----------------|
| | | TO LEVELS ROAD | COUN NEW CA |
| | | MARYLAND STATE LINE | T20081 |
| ONS | | US 301 | CONTRA |
| | | | |
| ELECTRICAL HUT LI | = 1' -0" | | |
| VELECTRICAL HILT LI | CHTINC PLAN 301 | NR | |
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| | | | |
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| | | | |



<u>NOTES:</u> 1. SEE DWG. E-10 FOR LUMINAIRE SCHEDULE.

| | | | FOR INFORMATION ONLY (BY OTHERS) | | | | |
|---------|--------------|-----|-------------------------------------|----|-------------|--|--|
| | | | 8⁄07⁄15 | E- | 06 | | |
| NTRACT | BRIDGE NO. | | ELECTRICAL | | SHEET NO. | | |
| 0811301 | DESIGNED BY: | | HUT | | 838 | | |
| DUNTY | DESIGNED DI. | JLG | POWER PLAN | | TOTAL SHTS. | | |
| CASTLE | CHECKED BY: | RAK | 301 NB | | 850 | | |

| PANEL DESIGNATION DP1 | | | TYPE: - NUMBER OF POLES: 42 MAIN BUS RATING:225A MAIN RATING:200A MCB | | | | | | | |
|---|--|--|---|--|---|----------------------------|------|---|-----------------------|--------------|
| CIR. No. | CIR. BKR. | | DESCRIPTION | LO AØ | AD - BØ | KVA CØ | - | LOA AØ | D - 1 BØ | <i>(V)</i> |
| 1 | | | | 4.0 | | | 1 = | 7.2 | | ╞ |
| 3 | 30 | 15 KVA XMFR | (UPS) | /. 0 | 4.0 | | 1 | / • 2 | 8.8 | ┢ |
| 5 | | | | | | 4.0 | 1 [| | | 7 |
| 7 | | | | 3.5 | | | ┥┝ | - | | ╞ |
| 9 11 | 50 | 30 KVA XMFR | (PP-1) | | 6.8 | 5.7 | ┥┝ | | - | + |
| 13 | | | | - | | J. / | + | | | + |
| 15 | 30 | SPARE | | | - | | 1 | | | ┢ |
| 17 | | | | | | - | 1 [| | | |
| 19 | | | | | | | ┥┝ | | | ╞ |
| 21 | | | | | | | + | | | ┢ |
| <i>23</i> <i>25</i> | | | | | | | ┥┝ | | | ┝ |
| 27 | | | | | | | 1 | | | + |
| 29 | | | | | | | 1 [| | | |
| 31 | | | | | | | [| | | \downarrow |
| 33 | | | | | | | ┥┝ | | | ╞ |
| 35 37 | | | | | | | ┥┝ | | | ╀ |
| 39 | | | | | | | ┥┝ | | | ╀ |
| 41 | | | | | | | 1 | | | \uparrow |
| CØ | <u>19.6</u> <u>17.4</u> <u>51.7</u> 7 | TOTAL | | | | | | | | |
| | NEL DE | TOTAL ESIGNATION PP 1 | TYPE: - NUMBER OF PO MAIN BUS RAT MAIN RATING: | T I NG: 2 | 225A | | | | | |
| PA | NEL DE P | ES IGNAT ION PP 1 | NUMBER OF PO MAIN BUS RA MAIN RATING | T I NG: 2 100A | 225A MCB | KVA | | 1.04 | 10 - 4 | |
| | NEL DE P | ES IGNAT ION PP 1 | NUMBER OF PO MAIN BUS RAT | T I NG: 2 100A | 225A | KVA CØ | | LOA | D - 1 BØ | |
| PA CIR. No. | NEL DE P C I R. BK R. 20 | ESIGNATION PP 1 SPARE | NUMBER OF PO MAIN BUS RA MAIN RATING | T I NG: 2 100A | 225A MCB AD - | | | | BØ | |
| PA C I R. No. 1 3 | NEL DE F C I R. BK R. 20 20 | ES IGNAT ION PP 1 SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION | LO AØ | 225A MCB AD - | CØ | | | T | |
| PA C I R. No. 1 3 5 | NEL DE F C I R. BK R. 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION | T I NG: 2 100A <u>L0</u> AØ - | 225A MCB AD - BØ | | | AØ - | BØ | |
| PA PA No. 1 3 5 7 | NEL DE F C I R. BK R. 20 20 20 20 20 | SIGNATION PP 1 SPARE SPARE ETC ROOM LIC ELECT RM/EX | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG | LO AØ | 225A MCB AD - BØ | CØ | | | BØ | |
| PA C I R. No. 1 3 5 | NEL DE F C I R. BK R. 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM | T I NG: 2 100A <u>L0</u> AØ - | 225A MCB AD - BØ - | CØ | | AØ - | <i>BØ</i> - | |
| PA C I R. No. 1 3 5 7 9 11 13 | NEL DE F C I R. BK R. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ETC RECEPT - ELE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0. 2 | 225A MCB AD - BØ - | CØ 0.3 | | AØ - | <i>BØ</i> - 2.0 | |
| PA C I R. No. 1 3 5 7 9 11 13 15 | NEL DE P C I R. BK R. 20 20 20 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0. 2 | 225A MCB AD - BØ - | CØ 0.3 | | AØ - 2. 0 | <i>BØ</i> - | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 20 20 20 | SIGNATION P1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OUT SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 | | AØ - 2. 0 | <i>BØ</i> - 2.0 | |
| PA C I R. No. 1 3 5 7 9 11 13 15 17 19 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2. 0 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 20 20 20 | SIGNATION P1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OUT SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2. 0 | <i>BØ</i> - 2.0 | |
| PA C I R. No. 1 3 5 7 9 11 13 15 17 19 21 | NEL DE P C I R. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2. 0 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2.0 - 0.2 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2.0 - 0.2 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2.0 - 0.2 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2.0 - 0.2 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 | | AØ - 2.0 - 0.2 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM | LO - 0.2 | 225A MCB AD - BØ - 0.4 | CØ 0.3 0.4 - | | AØ - 2.0 - 0.2 | BØ - 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 | NEL DE F CIR BKR 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM C ROOM C ROOM C ROOM | LO LO AØ - 0.2 0.8 - - - - - - - - - - - - - | 225A MCB AD - BØ - 0.4 0.4 0.4 | CØ 0.3 0.4 - - | | AØ - 2.0 - 0.2 0.3 | <i>BØ</i> 2.0 2.0 | |
| PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 25 27 29 31 33 35 37 39 41 PAN | NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 | SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE | NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM C ROOM C ROOM TDOOR TDOOR TDOOR | LO LO AØ - 0.2 0.8 - - - - - - - - - - - - - | 225A MCB AD - BØ - 0.4 0.4 | CØ 0.3 0.4 - | | AØ - 2.0 - 0.2 0.3 - 0.3 - 2.5 | BØ - 2.0 2.0 | |

| | ADDENDUMS / REVISIONS | | _AWARE OF TRANSPORTATION | | PARTMEI | PP-1 | 1343 - DELDUI UD3U |
|--|----------------------------|---|--------------------------------|--------|------------|------------|--------------------|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | PP-1 | UPP-1 | DP-1 | ראע פט/ד. |
| $\begin{bmatrix} PANEL CONNECTED LOAD \\ PANEL CONNECTED PANEL \\ PANEL PANEL \\ PANEL PANE$ | SOLID NEUTR EOUIPMENT G | D | BØ <u>6.8</u> CØ <u>5.7</u> | ON KEY | GNATION KE | PANEL DESI | |

| LOCATION: ELECTRICAL ROOM - HUT 301NB VOLTAGE: 480/277V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I.C. RATING:65 KA | | | | | | | | | |
|---|-------------------------|--------------|---------------|--|--|--|--|--|--|
| KVA CØ | DESCRIPTION | CIR. BKR. | CIR. No. | | | | | | |
| 7.7 | DP-2 (RAMP 301 SB) | 100 | 2 4 6 | | | | | | |
| - | SURGE PROTECTIVE DEVICE | 40 | 8 10 12 | | | | | | |
| | | | 14 | | | | | | |
| | | | 16 | | | | | | |
| | | | 18 20 | | | | | | |
| | | | 20 | | | | | | |
| | | | 24 | | | | | | |
| | | | 26 | | | | | | |
| | | | 28 | | | | | | |
| | | | 30 | | | | | | |
| | | | 32 | | | | | | |
| ļ | | | 34 | | | | | | |
| | | | 36 | | | | | | |
| | | | 38 40 | | | | | | |
| | | | 40 | | | | | | |
| 7.7 | TOTAL | | <u>'</u> ∠ | | | | | | |
| • | BUS ND BUS | | | | | | | | |

| PANI PANI | TAGE:120/208V, 3Ø, 4W EL MOUNTING:SURFACE EL ENCLOSURE (NEMA):1 EL MIN. A.I.C. RATING:10 | KA | | |
|----------------------|---|--------------|------------------------|-----|
| (VA CØ | DESCRIPTION | CIR. BKR. | CIR. No. | |
| - | SPARE | 15 | 2 4 6 | |
| | ACC-1 | 30 | 8 10 | |
| - | ACC-2 (STAND BY) | 30 | <i>12</i> <i>14</i> | |
| 2.0 | ACC-3 | 30 | 16 18 | |
| | CLEAN AGENT PANEL | 20 | 20 | (1) |
| 2.0 | GENERATOR BLOCK HEATER | 30 | 22 24 | |
| | GENERATOR BATT. CHARGER | 20 | 26 | |
| | | | 28 | |
| | | | 30 | |
| | | | 32 | |
| | | | 34 | |
| | | | 36 | |
| | | | 38 | |
| | | | 40 | |
| | | | 42 | |
| 4. 0 TRAL GROU | TOTAL BUS ND BUS | | | |

| PA | | NEL DESIGNATION UPP-1 WAIN BUS RATING: 225A MAIN RATING: 60A MCB TYPE: - NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 60A MCB LOCATION: ETC ROOM - HUT 301N VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I.C. RATING: 10 K | | | | | | | | | | | |
|-------------|--------------|---|-------------|----------|------------|-----------|-----|--------------------------|------------------------|----------------------|-------------------------|--------------|--------|
| CIR. No. | CIR. BKR. | | DESCRIPTION | LO AØ | AD - BØ | KVA CØ | | LOA | D - К ВØ | VA CØ | DESCRIPTION | CIR. BKR. | CIR. |
| | | | | ДØ | DØ | | │ ╞ | Αψ | DΨ | | | | |
| 1 | | | | _ | | | - | - | | | | | 2 |
| 3 | | | | | | | | _ | | | | | 4 |
| 5 | | | | | | | | | | | | | 6 8 |
| 9 | | | | | | | | | | | | | 10 |
| 9 11 | | | | | | | - | | | | | | 12 |
| 13 | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | - | | | | | | 18 |
| 19 | | | | | | | - | | | | | | 20 |
| 21 | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | SURGE PROTECTIVE DEVICE | 40 | 40 |
| 41 | | | | | | | | | | | (SPD) | | 42 |
| | | | TOTAL | | | | | | | | TOTAL | | • |
| AØ | | NNECTED LOA | υ | | | | | SOL IL EOU IF FEED |) NEU PMENT THRU | TRAL GROL LUGS | BUS IND BUS | | |

(1) PROVIDE LOCKDOG ON CIRCUIT BREAKER HANDLE.

| US | 301 |
|----------|------------|
| MARYLAND | STATE LINE |
| TO LEVE | LS ROAD |

| | | FOR INFORMATION ONLY (BY OTHERS) | | | | | |
|------------|------------------|-------------------------------------|----|-------------|--|--|--|
| | | 8⁄07⁄15 | E- | 07 | | | |
| CONTRACT | BRIDGE NO. | | | SHEET NO. | | | |
| T200811301 | | ELECTRICAL | | 839 | | | |
| COUNTY | DESIGNED BY: JLG | PANEL SCHEDUL | ES | TOTAL SHTS. | | | |
| NEW CASTLE | CHECKED BY: RAK | | | 850 | | | |

| DP:- | 2 N 2 M | YPE: - IUMBER OF PO IAIN BUS RAT IAIN RATING: | ' I NG : 225A | | | | VOLTA PANEL PANEL | ION: ELECTRICAL ROOM GE:480/277V, 3Ø, 4W MOUNTING:SURFACE ENCLOSURE (NEMA):1 MIN. A.I.C. RATING: | | | | PANE | L DESIGNATION UPP-3 | TYPE: - NUMBER OF P MAIN BUS RA MAIN RATING | T I NG: 225A | 4 |
|---|---|--|--|--|---------------------------------|--|---|---|--|---|---------|----------|------------------------|--|-----------------|----------------|
| CIR. CIR. No. BKR. | DE | SCRIPTION | LOAD AØ B(| | LOA AØ | 4D - KI BØ | VA CØ | DESCRIPTION | CIR. CIF BKR. No. | | C No | IR. (| CIR. BKR. | DESCRIPTION | LOAD - AØ BØ | |
| <u>1</u> 3 30 15 | 5 KVA XFMR (L | UPS) | 4.0 |) | 3.2 | 4.8 | 3 | O KVA XFMR (PP-2) | 50 <u>2</u> | | | 1 3 | | | - | + |
| 5 | | | | 4.0 | | | 3.7 | | 6 | | | 5 | | | | + |
| 9 40 SL | IRGE PROTECT | IVE DEVICE | | | | - | 5 | PARE | 30 <u>8</u> 30 10 | 2 | | 9 | | | | \pm |
| 11 (S 13 | | | | - | ┤ | | - | | 12 | | | 1 3 | | | | + |
| 15 | | | | | | | | | 16 | 5 | 1 | 5 | | | | + |
| 17 19 | | | | | ┤ | | | | 18 | | | 7 9 | | | | + |
| 21 23 | | | | | | | | | 22 | | | ?1 ?3 | | | | \mp |
| 25 | | | | | | | | | 26 | 5 | 2 | ?5 | | | | |
| 27 29 | | | | | ┤ | | | | 28 30 | | | ?7 ?9 | | | | + |
| 31 | | | | | | | | | 32 | ? | 3 | 31 | | | | 1 |
| <i>33</i> <i>35</i> | | | | | | | | | 34 36 | 5 | | 33 35 | | | | \pm |
| <i>37</i> <i>39</i> | | | | | | | | | 38 40 | | 3 | 37 39 | | | | $\overline{+}$ |
| 41 | | | 4.0 4.0 | | | 4.8 | | | 42 | | | 1 | | ΤΟΤΑΙ | | \pm |
| | | | | | | | | | | | | | | | | |
| PANEL DEST | N N | YPE: - IUMBER OF PO IAIN BUS RAT | LES: 42 ING: 225A | | | | LOCAT VOLTA PANEL | ION: ELECTRICAL ROOM GE:120/208V, 3Ø, 4W MOUNTING:SURFACE | - ' 301 SB' | | | | | | | |
| PP | 2 N M M | | ING: 225A 100A MCB LOAD | - KVA | | 4D - K | PANEL PANEL VA | ION: ELECTRICAL ROOM GE: 120/208V, 3Ø, 4W MOUNTING: SURFACE ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION | 10 KA | | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP C IR. C IR. No. BKR. 1 20 SF | 2 N M M DE PARE | UMBER OF PO MAIN BUS RAT MAIN RATING: | ING: 225A 100A MCB LOAD AØ BQ | - KVA | LOA AØ - | <u>4D - K</u> | PANEL PANEL VA CØ | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION | 10 KA CIR. CIF BKR. No. 2 | R. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF | 2 N M M DE | UMBER OF PO AIN BUS RAT AIN RATING: SCRIPTION | ING: 225A 100A MCB LOAD | - KVA | - - | 4D - K BØ - | PANEL PANEL VA CØ | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: | 10 KA CIR.CIF BKR.No. | R. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP C I R. C I R. No. BK R. 1 20 SF 3 20 SF 5 20 ET 7 20 EL | 2 N M M DE DE DE DE DE DE C C ROOM LIGHT EC RM/EXTER | UMBER OF PO AIN BUS RAT AIN RATING: SCRIPTION SCRIPTION TING IOR LTG | ING: 225A 100A MCB LOAD AØ BQ - - - 0. 2 | - KVA Ø CØ 0.3 | | 4D - K BØ - | PANEL PANEL VA CØ - | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION | 10 KA CIR. CIF BKR. No. 15 4 6 | P. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE | 2 2 DE DE DE DE DE DE DE DE C C ROOM LIGHT EC RM/EXTER CEPT - ETC F CEPT - ETC F | UMBER OF PO AIN BUS RAT AIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM | ING: 225A 100A MCB LOAD AØ B(- - - 0. 2 0. 4 | - KVA Ø CØ 0.3 | - - | 4D - K BØ - | PANEL PANEL VA CØ S - A | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE | 10 KA CIR. CIF BKR. No. 15 4 6 30 8 10 12 | P. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 15 20 RE | 2 PARE PARE C ROOM L IGHT EC RM/EXTER CEPT - ETC F CEPT - ELEC CEPT - OUTDO | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0. 2 0. 4 | - KVA Ø CØ 0.3 0.4 | - - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ S - A - A | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) | $ \begin{array}{c} 10 KA \\ \hline C \ IR. \\ BKR. \\ No. \\ \hline 15 \\ 4 \\ \hline 6 \\ \hline 30 \\ \hline 10 \\ \hline 30 \\ 14 \\ \hline 70 \\ \hline 16 \\ \hline 16 \\ \hline 70 \\ \hline 16 \\ \hline 16 \\ \hline 16 \\ \hline 10 \\ \hline 16 \\ $ | P. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 15 20 RE 17 15 SF | 2 PARE PARE PARE C ROOM LIGHT EC RM/EXTER CEPT - ETC F CEPT - ELEC CEPT - OUTDO PARE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | AØ - 2.0 - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 | $ \begin{array}{c} 10 KA \\ \hline C \ IR. \\ BKR. \\ No. \\ \hline 15 \\ 4 \\ \hline 6 \\ \hline 30 \\ \hline 12 \\ \hline 30 \\ 14 \\ \hline 30 \\ 16 \\ \hline 18 \\ \hline 18 \\ \hline \end{array} $ | P. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 15 20 RE 15 20 SF 19 20 SF 21 20 SF | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | - - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | P. P. P. P. P. P. P. P. P. P. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 13 20 RE 14 20 SF 21 20 SF 23 20 SF 25 20 SF | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | AØ - 2.0 - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td> | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 13 20 RE 13 20 SF 21 20 SF 23 20 SF 23 20 SF 27 20 SF | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | AØ - 2.0 - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. P. P. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td> | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE 13 20 RE 15 20 RE 17 15 SF 19 20 SF 23 20 SF 23 20 SF 25 20 SF 27 20 SF 31 20 SF | 2 N 2 DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | AØ - 2.0 - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td> | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 E1 7 20 EL 9 20 RE 11 20 RE 13 20 RE 15 20 RE 17 15 SF 19 20 SF 23 20 SF 23 20 SF 24 20 SF 25 20 SF 27 20 SF 31 20 SF 33 20 SF 35 20 SF | 2 N 2 DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | AØ - 2.0 - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td> | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 14 20 RE 15 20 RE 17 15 SF 19 20 SF 21 20 SF 23 20 SF 24 20 SF 25 20 SF 27 20 SF 31 20 SF 33 20 SF 33 20 SF 37 20 SF 37 20 SF | 2 N 2 DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR | ING: 225A 100A MCB LOAD AØ B(- - - 0.2 0.4 0.4 0.8 | - KVA Ø CØ 0.3 0.4 | AØ - 2.0 - | 4D - K BØ - 2.0 2.0 | PANEL PANEL VA CØ - - A 2.0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. | | | | (1) PROVIDE | LOCKDOG (| ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 14 20 RE 15 20 RE 17 15 SF 19 20 SF 21 20 SF 23 20 SF 24 20 SF 25 20 SF 27 20 SF 31 20 SF 33 20 SF 33 20 SF 35 20 SF 37 20 SF | 2 N 2 N M M M M M M M M M M M M M | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR | I NG: 225A 100A MCB LOAD AØ BQ - - 0.2 - 0.2 0.4 0.8 - 0.8 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.8 - 0.9 - 1.9 | - KVA 0 CØ 0.3 0.4 - 0.4 - 0.4 - 1.0 | | AD - K BØ - 2.0 2.0 | PANEL PANEL VA CØ S - A 2.0 C 0 C 0 0 0 0 0 0 0 0 0 0 0 0 0 | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. P. | | | | (1) PROVIDE | LOCKDOG C | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 E1 7 20 EL 9 20 RE 11 20 RE 13 20 RE 15 20 RE 17 15 SF 19 20 SF 21 20 SF 23 20 SF 24 20 SF 25 20 SF 27 20 SF 33 20 SF 37 20 SF 39 20 SF 39 20 SF 39 20 SF 39 20 SF </td <td>2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE</td> <td>IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR</td> <td>ING: 225A 100A MCB LOAD AØ BQ - - 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td>- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -</td> <td></td> <td>AD - K BØ - 2.0 2.0 2.0 4.0</td> <td>PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - -</td> <td>ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>R. R. P. P.</td> <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG (</td> <td>ON</td> | 2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR | ING: 225A 100A MCB LOAD AØ BQ - - 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 | - KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - - | | AD - K BØ - 2.0 2.0 2.0 4.0 | PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - - | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. P. | | | | (1) PROVIDE | LOCKDOG (| ON |
| PP CIR. No. CIR. BKR. 1 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE 13 20 RE 14 20 RE 15 20 RE 17 155 SF 19 20 SF 21 20 SF 23 20 SF 23 20 SF 24 20 SF 25 20 SF 27 20 SF 33 20 SF 37 20 SF 39 20 SF 39 20 SF 39 20 SF 39 | 2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR | I NG: 225A 100A MCB LOAD AØ BQ - - 0.2 - 0.2 0.4 0.8 - 0.8 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.8 - 0.9 - 1.9 | - KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - - | AØ - 2.0 - 0.2 - | AD - K BØ - 2.0 2.0 2.0 4.0 | PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - - | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. P. | | | | (1) PROVIDE | LOCKDOG | ON |
| PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 EI 9 20 RE 11 20 RE 13 20 RE 14 20 RE 15 20 RE 17 15 SF 19 20 SF 21 20 SF 23 20 SF 24 20 SF 25 20 SF 31 20 SF 33 20 SF 34 20 SF 35 20 SF 37 20 SF 39 20 SF | 2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR | I NG: 225A 100A MCB LOAD AØ BQ - - 0.2 - 0.2 0.4 0.8 - 0.8 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.8 - 0.9 - 1.9 | - KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - - | AØ - 2.0 - 0.2 - | AD - K BØ - 2.0 2.0 2.0 4.0 | PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - - | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. P. | | | | (1) PROVIDE | LOCKDOG | ON |
| PP CIR. No. CIR. BKR. 1 20 SF 3 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE 13 20 RE 14 20 RE 15 20 RE 17 15 SF 19 20 SF 21 20 SF 23 20 SF 24 20 SF 25 20 SF 27 20 SF 31 20 SF 33 20 SF 33 20 SF 37 20 SF 37 20 SF 39 20 SF 37 20 SF 39 20 SF 39 20 SF 39 <t< td=""><td>2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE</td><td>IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR</td><td>I NG: 225A 100A MCB LOAD AØ BQ - - 0.2 - 0.2 0.4 0.8 - 0.8 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.8 - 0.9 - 1.9</td><td>- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -</td><td>AØ - 2.0 - 0.2 -</td><td>AD - K BØ - 2.0 2.0 2.0 4.0 4.0</td><td>PANEL PANEL VA CØ - - 2.0 C - <t< td=""><td>ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>R. R. P. P.</td><td></td><td></td><td></td><td>(1) PROVIDE</td><td>LOCKDOG</td><td>ON</td></t<></td></t<> | 2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE | IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR | I NG: 225A 100A MCB LOAD AØ BQ - - 0.2 - 0.2 0.4 0.8 - 0.8 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.8 - 0.9 - 1.9 | - KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - - | AØ - 2.0 - 0.2 - | AD - K BØ - 2.0 2.0 2.0 4.0 4.0 | PANEL PANEL VA CØ - - 2.0 C - <t< td=""><td>ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>R. R. P. P.</td><td></td><td></td><td></td><td>(1) PROVIDE</td><td>LOCKDOG</td><td>ON</td></t<> | ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | R. R. P. | | | | (1) PROVIDE | LOCKDOG | ON |

REVISED: 312/20 343 – DELDOT U r S

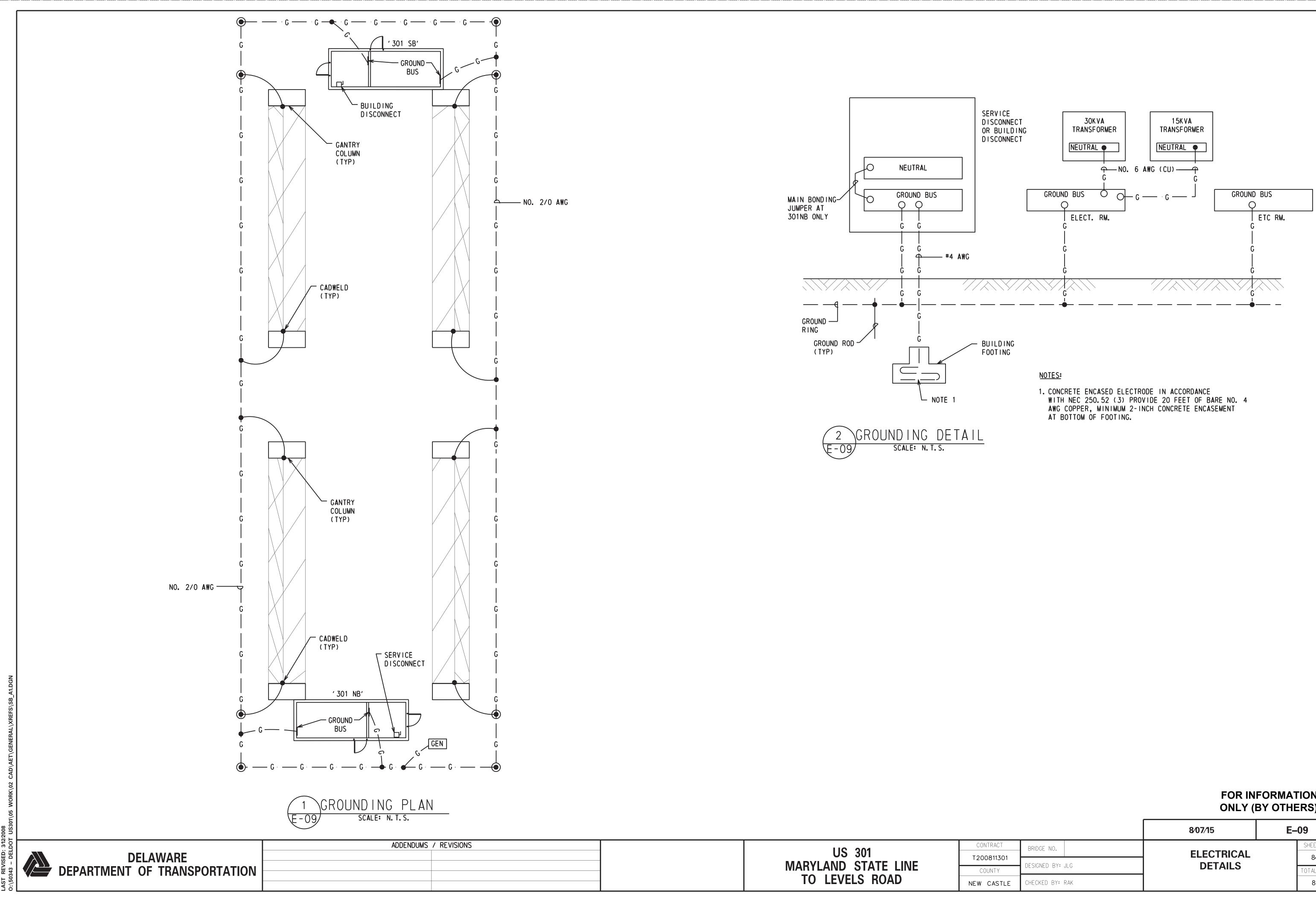
| SCRIPTION | CIR. BKR. | CIR. No. |
|-------------|--------------|---------------|
| (FMR (PP-2) | 50 | 2 4 6 |
| | 30 | 8 10 12 |
| | | 14 |
| | | 16 18 |
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| | | 40 |
| | | 40 42 |

| SURE (NEMA): 1 A. I.C. RATING:10 SCRIPTION | KA CIR. BKR. | CIR. No. | |
|--|--------------------|-------------|----|
| | | | |
| | 15 | 2 4 | |
| | | 4 6 | |
| | | 8 | |
| | 30 | 10 | |
| | | 12 | |
| STAND BY) | 30 | 14 | |
| | | 16 | |
| | 30 | 18 | |
| GENT PANEL | 20 | 20 | (1 |
| | 20 | 22 | |
| | | 24 | |
| | | 26 | |
| | | 28 | |
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| | | 32 | |
| | | 34 | |
| | | 36 | |
| | | 38 | |
| | | 40 | |
| | | 42 | |
| | | | |

| PAN | | EL DESIGNATION UP:P-3 MAIN BU MAIN R. | | ING: 2 | 225A | | | LOCATION: ETC ROOM - '301 SB' VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A.I.C. RATING:10 KA | | | | | | | |
|--------------------|--------------|--|-------------|--------|------|----|--------------------------|--|----------------------|-------------------------|--------------|----------|--|--|--|
| CIR. No. | CIR. BKR. | | DESCRIPTION | | AD - | | | D - K | | DESCRIPTION | CIR. BKR. | CIF | | | |
| //// | DAN. | | | AØ | BØ | CØ | AØ | ΒØ | CØ | | DRN. | _ | | | |
| 7 | | | | _ | | | - | | | | | | | | |
| 3 | | | | - | | | - | | | | | 4 | | | |
| 5 7 | | | | | | | | | | | | 6 | | | |
| 9 | | | | | | | | | | | | <i>E</i> | | | |
| 9 11 | | | | | | | | | | | | 1 | | | |
| 13 | | | | | | | | | | | | 1 | | | |
| 15 | | | | | | | | | | | | 1 | | | |
| 17 | | | | | | | | | | | | 1 | | | |
| 19 | | | | | | | | | | | | 20 | | | |
| 21 | | | | | | | | | | | | 2 | | | |
| 23 | | | | | | | | | | | | 2 | | | |
| 25 | | | | | | | | | | | | 2 | | | |
| 27 | | | | | | | | | | | | 2 | | | |
| 29 | | | | | | | | | | | | 3 | | | |
| 31 | | | | | | | | | | | | 3. | | | |
| 33 | | | | | | | | | | | | 3. | | | |
| 35 | | | | | | | | | | | | 3 | | | |
| 37 | | | | | | | | | | | | 38 | | | |
| 39 | | | | | | | | | | SURGE PROTECTIVE DEVICE | 40 | 4(| | | |
| 41 | | | | | | | | | | | | 42 | | | |
| | | INECTED LOAL | n TOTAL [| | | | | | | JTOTAL | | | | | |
| AØ _ BØ _ | | OTAL | - | | | = | SOL II EOU II FEED | D NEU PMENT THRU | TRAL GROU LUGS | BUS IND BUS | | | | | |

BREAKER HANDLE.

| | | _ | FORMATION BY OTHERS) | |
|----|------------------|---------------|-------------------------|---|
| | | 8⁄07⁄15 | E–08 | |
| 24 | BRIDGE NO. | ELECTRICAL | SHEET | |
|)1 | DESIGNED BY: JLG | PANEL SCHEDUL | .ES | |
| LE | CHECKED BY: RAK | | 850 |) |



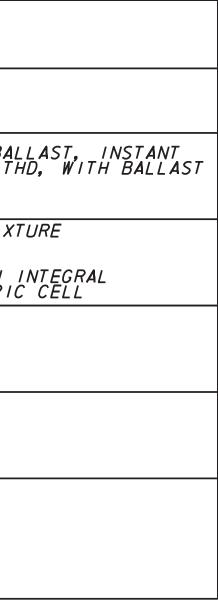
| | | | | FORMATION BY OTHERS) |
|---------------------|------------|------------------|------------|-------------------------|
| | | | 8⁄07⁄15 | E–09 |
| | CONTRACT | BRIDGE NO. | | SHEET NO. |
| | | | ELECTRICAL | 841 |
| MARYLAND STATE LINE | COUNTY | DESIGNED BY: JLG | DETAILS | TOTAL SHTS. |
| TO LEVELS ROAD | NEW CASTLE | CHECKED BY: RAK | | 850 |

| FIXTURE | MANUFACTURER AND | | | SYSTEM | | | LAMP | MOUNT ING | | | | INPUT WATTS | | DESCRIPTION | |
|---------|---------------------------------|---------|---------|--------|--|-----|---------------|-----------------|--|------|-------|----------------|-------|--|---|
| TYPE | MANUFACTURER AND CATALOG NO. | VOL T | INCAND. | | | NO. | WATTS | SURF. RECESS WA | | WALL | OTHER | WATTS | NOTES | DESCRIPTION | REMARKS |
| ' A' | LITHONIA 'AFST' SERIES | 120/277 | | • | | 3 | 32W T8 | • | | | | 87 | 1 | HEAVY DUTY INDUSTRIAL, SOLID REFLECTOR | ELECTRONIC BAL START & 10% TH DISCONNECT |
| ' B' | LITHONIA 'TWF1' SERIES | 120 | | • | | 2 | 26W DTT | | | | | 49 | 1 | EXTERIOR ARHCITECTURAL WALL PACK, POLYCARBONATE LENS, DIE-CAST METAL BEZEL, DARK BRONZE FINISH UL LISTED FOR WET LOCATIONS | BOTTOM OF FIXT MOUNTED AT 7'-O" AFG PROVIDE WITH I PHOTO ELECTRIC |
| ′EM′ | LITHONIA 'ELM' SERIES | 120/277 | • | | | 2 | 9W KRYPTON | | | • | | 8 | 1 | THERMOPLASTIC EMERGENCY UNIT, DUAL HEADS, HIGH CAPACITY 54W OUTPUT | - |
| ' RH' | LITHONIA 'ELA' SERIES | 120/277 | • | | | 2 | 9W KYRPTON | | | • | | - | 1 | THERMOPLASTIC EMERGENCY REMOTE TWIN HEAD, 6 VOLT KRYPTON LAMPS. | - |
| NOTES: | | | | | | | | | | | | | | | |

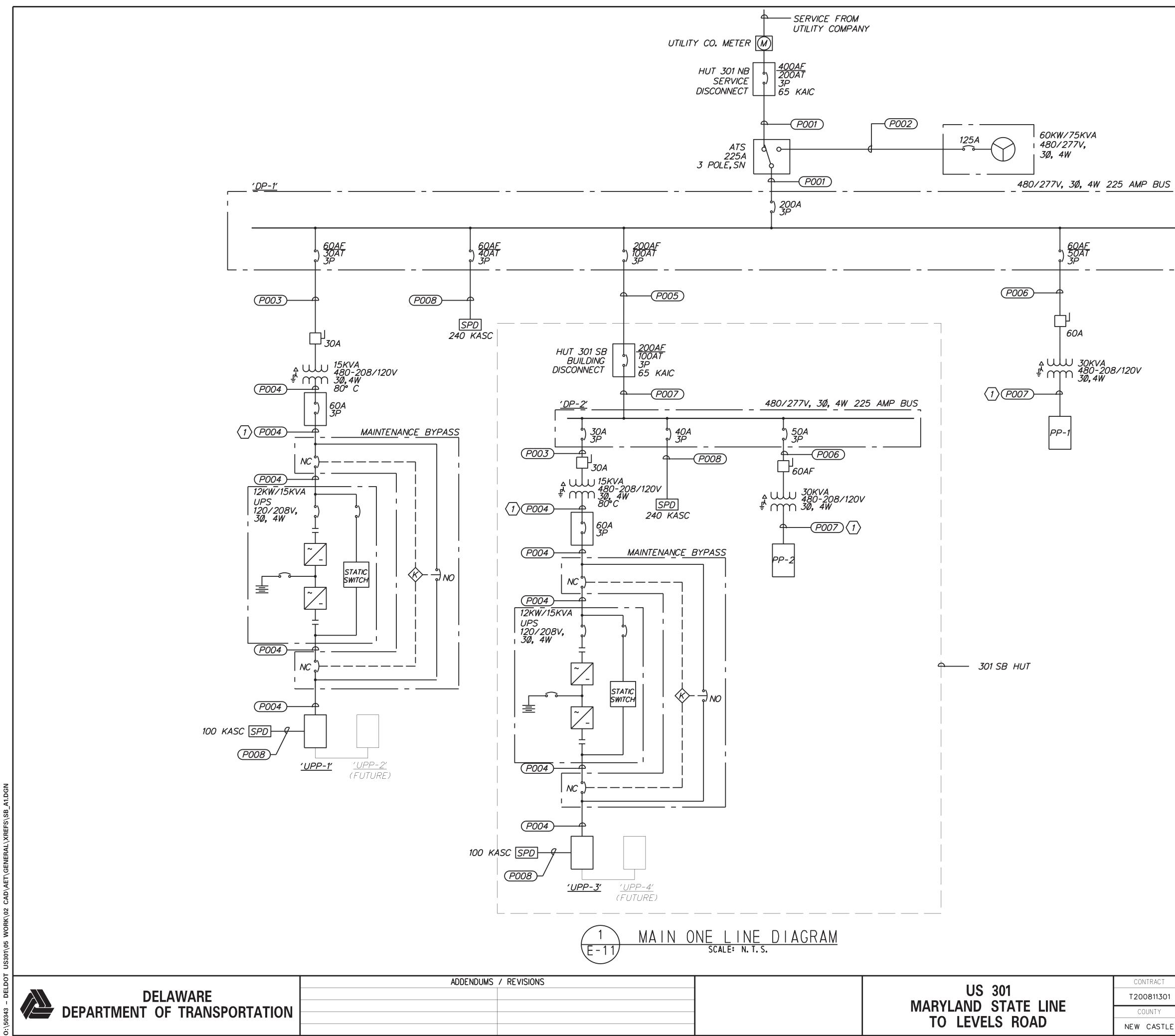
DELAWARE EPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

| | | | | 8⁄07⁄15 | E–1 | 10 |
|---|---------------------|------------|------------------|-----------------|-----|-------------|
| 5 | | CONTRACT | BRIDGE NO. | | | SHEET NO. |
| | US 301 | T200811301 | | ELECTRICAL | | 842 |
| | MARYLAND STATE LINE | COUNTY | DESIGNED BY: JLG | LUMINAIRE SCHED | ULE | TOTAL SHTS. |
| | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: RAK | | | 850 |



FOR INFORMATION ONLY (BY OTHERS)



| | F | EEDER SCHEDULE |
|-------|-------------|-------------------------------|
| CABLE | SIZE | WIRE |
| P001 | 2″ | 4-1/C NO. 3/0 AWG & NO. 4 GND |
| P002 | DUCT BANK | 4-1/C NO. 1/0 AWG & NO. 4 GND |
| P003 | <u>3/</u> " | 3-1/C NO. 10 AWG & NO. 10 GND |
| P004 | 1-1/2″ | 4-1/C NO. 4 AWG & NO. 8 GND |
| P005 | DUCT BANK | 4-1/C NO. 2/0 AWG & NO. 4 GND |
| P006 | 1″ | 3-1/C NO. 6 AWG & NO. 10 GND |
| P007 | 1-1/2″ | 4-1/C NO. 1 AWG & NO. 6 GND |
| P008 | 1″ | 4-1/C NO. 6 AWG & NO. 6 GND |

301 NB

KEY NOTES:

(1) MAXIMUM CONDUCTOR LENGTH 25 FEET.

| | | _ | FORMA1 BY OTHE | - |
|--------------------|------------------|------------|-------------------|--------------------|
| | | 8⁄07⁄15 | E- | -11 |
| ONTRACT | BRIDGE NO. | | | SHEET NO. |
| 00811301 County | DESIGNED BY: JLG | ELECTRICAL | GRAM | 843 Total shts. |
| CASTLE | CHECKED BY: RAK | | | 850 |

LEGEND:

| Ţ | GROUND CONNECTION |
|----------|-----------------------|
| | CONDUIT - EXPOSED |
| <u> </u> | CONDUIT - EMBEDDED |
| | CONDUIT - TURNED DOWN |
| o | CONDUIT - TURNED UP |
| | |

Α *A.C.* A/C ADJ. AE A.F.F. A.F.G A. I. C. A. T. S.

AUTO AVI AWG BCC BLDG. С

CB С.Р.

CNTL CONTR COTB.

CNTOR

D.C. DE DIA.

D.S. E.C.

EM. EMB. *E*.*P*. ETC EXH.

F**.** A. FT.

FU. *G.C.* G.F.I. GRD. H.I.D. HP

H.P.S.

HVAC

HTR.

1.G. *I.M.C.*

IN.

JB

KW.

LTG. MIN.

М. Н. *M.L.O.*

MTD.

MCB *M.C.S.*

NB

N. C.

NF

POWER OR CONTROL PULLBOX

ABBREVIATIONS:

| AMPERE ALTERNATING CURRENT AIR CONDITIONING ADJACENT AUTOMATIC ENTRY ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPACITY AUTOMATIC TRANSFER SWITCH AUTOMATIC VEHICLE IDENTIFICATION AMERICAN WIRE GAUGE | N.I.C. N.O. No. N.T.S. O.C. OH PNL. PWR PVC PCRMC R.G.S. SB SCI | NOT IN CONTRACT NORMALLY OPEN NUMBER NOT TO SCALE ON CENTER OVERHEAD PANEL POWER CABLE/CONDUIT POLYVINYL CHLORIDE PVC-COATED RIGID METAL CON RIGID GALVANIZED STEEL SOUTHBOUND SIGN CONTROLLER INTERFACE |
|--|---|--|
| BOOTH CONTROL CENTER | SW | SWITCH |
| BUILDING | <i>T.B.</i> | TOLL BOOTH |
| CONDUIT | T.S. TVSS | TRAFFIC SIGNAL TRANSIENT VOLTAGE SURGE SI |
| CIRCUIT BREAKER CONTROL PANEL | TYP. | TYPICAL |
| CONTROL CABLE/CONDUIT | U.L. | UNDERWRITERS LABORATORIES |
| CONTRACTOR | U. N. O. | UNLESS NOTED OTHERWISE |
| CANOPY OVERRIDE TERMINATION BOX | UPS | UNINTERRUPTED POWER SUPP |
| CONTACTOR | V | VOLT |
| DIRECT CURRENT | VES | VEHICLE ENFORCEMENT SYSTE |
| DEDICATED ENTRY | W.P. | WEATHERPROOF |
| DIAMETER | X | EXIT |
| DISCONNECT SWITCH | PED. ACC. | PEDESTRIAN ACCESSWAY |
| ELECTRICAL CONTRACTOR | | |
| EMERGENCY | | |
| EMBEDDED | | |
| EXPLOSION PROOF | | |
| ELECTRONIC TOLL COLLECTOR | | |
| EXHAUST | | |
| FIRE ALARM | | |
| FOOT, FEET | | |
| FUSE GENERAL CONTRACTOR | | |
| GENERAL CONTRACTOR GROUND FAULT INTERRUPTER | | |
| GROUND FAULT INTERNOFTEN | | |
| HIGH INTENSITY DISCHARGE | | |
| HORSEPOWER | | |
| | | |

| | A1.DGN |
|-------------|---|
| | L\XREFS\SB_A1.DGN |
| | GENERAL |
| | :AD\AET\ |
| | DELDOT US301/05 WORK/02 CAD\AET\GENERAI |
| 008 | US301\05 \ |
| SEU: 3/12/2 | DELDOT |
| REVISED | 343 – D |

DELAWARE **DEPARTMENT OF TRANSPORTATION**

HIGH PRESSURE SODIUM

ISOLATED GROUND

MOUNTING HEIGHT

MAIN CIRCUIT BREAKER

MOLDED CASE SWITCH

MAIN LUG ONLY

NORTH BOUND

NONFUSIBLE

NORMALLY CLOSED

HEATER

KILOWATT LIGHTING

MINIMUM

MOUNTED

INCH

JB

HEAT-VENT-AIR CONDITIONING

INTERMEDIATE METAL CONDUIT

ADDENDUMS / REVISION

<u>GENERAL NOTES:</u>

- 1. DRAWINGS ARE DIAGRAMMATIC IN NATURE, CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION. TO AVOID INTERFERENCE'S.
- FOR ACTUAL LOCATION OF EQUIPMENT.
- AND OPERABLE SYSTEM.
- GOVERNING LOCAL CODES, LAWS/OR REGULATIONS.

ONDUIT

SUPPRESSION

S

PPLY

TEM

| | | |
|----|---------------------|-------|
| IS | 110 004 | CONTE |
| | US 301 | T2008 |
| | MARYLAND STATE LINE | COUN |
| | TO LEVELS ROAD | NEW C |

CONTRACTORS SHALL COORDINATE ALL WORK WITH OTHER DIVISION TRADES. LOCATE FIXTURES, DEVICES, ETC. IN ORDER

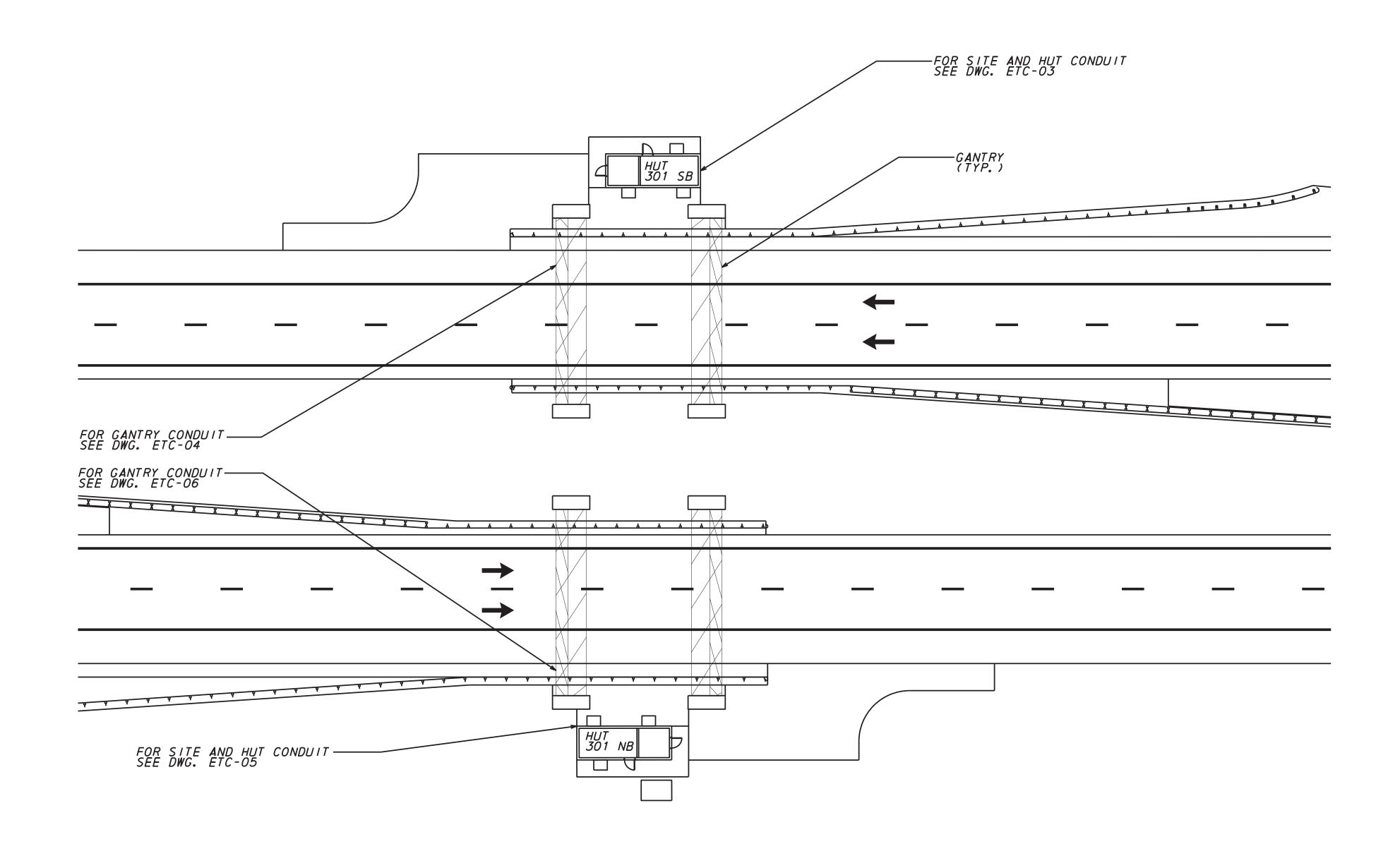
2. ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS ARE FOR BACKGROUND INFORMATION ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION OF WALLS AND CURBS. REFER TO MECHANICAL DRAWINGS

3. CONTRACTORS SHALL IN A WORKMANLIKE MANNER, PROVIDE A COMPLETE OPERABLE SYSTEM. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR INSTALLATION OF A COMPLETE

4. ALL WORK SHALL BE PERFORMED AS REQUIRED BY APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL

5. ALL CONDUIT PENETRATIONS UP THROUGH GRADE AND THROUGH FOUNDATIONS SHALL BE PVC-COATED RIGID STEEL CONDUIT (PCRMC). ALL OTHER EXPOSED OUTDOOR CONDUITS SHALL BE GALVANIZED RIGID STEEL CONDUIT. MINIMUM SIZED DIAMETER SHALL BE 1" UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL UTILIZE THE CONDUIT MANUFACTURER'S RECOMMENDED SUPPORTS FOR ALL CONDUIT ROUTINGS.

| | | | FOR INFORMATION ONLY (BY OTHERS) | | |
|-----------|--------------|-----|-------------------------------------|-----|-------------|
| | | | 8⁄07⁄15 | ETC | C—01 |
| CONTRACT | BRIDGE NO. | | | | SHEET NO. |
| 200811301 | | | ETC | | 844 |
| COUNTY | DESIGNED BY: | 11R | LEGEND, SYMBO | | TOTAL SHTS. |
| W CASTLE | CHECKED BY: | RAK | & ABBREVIATIO | NS | 850 |



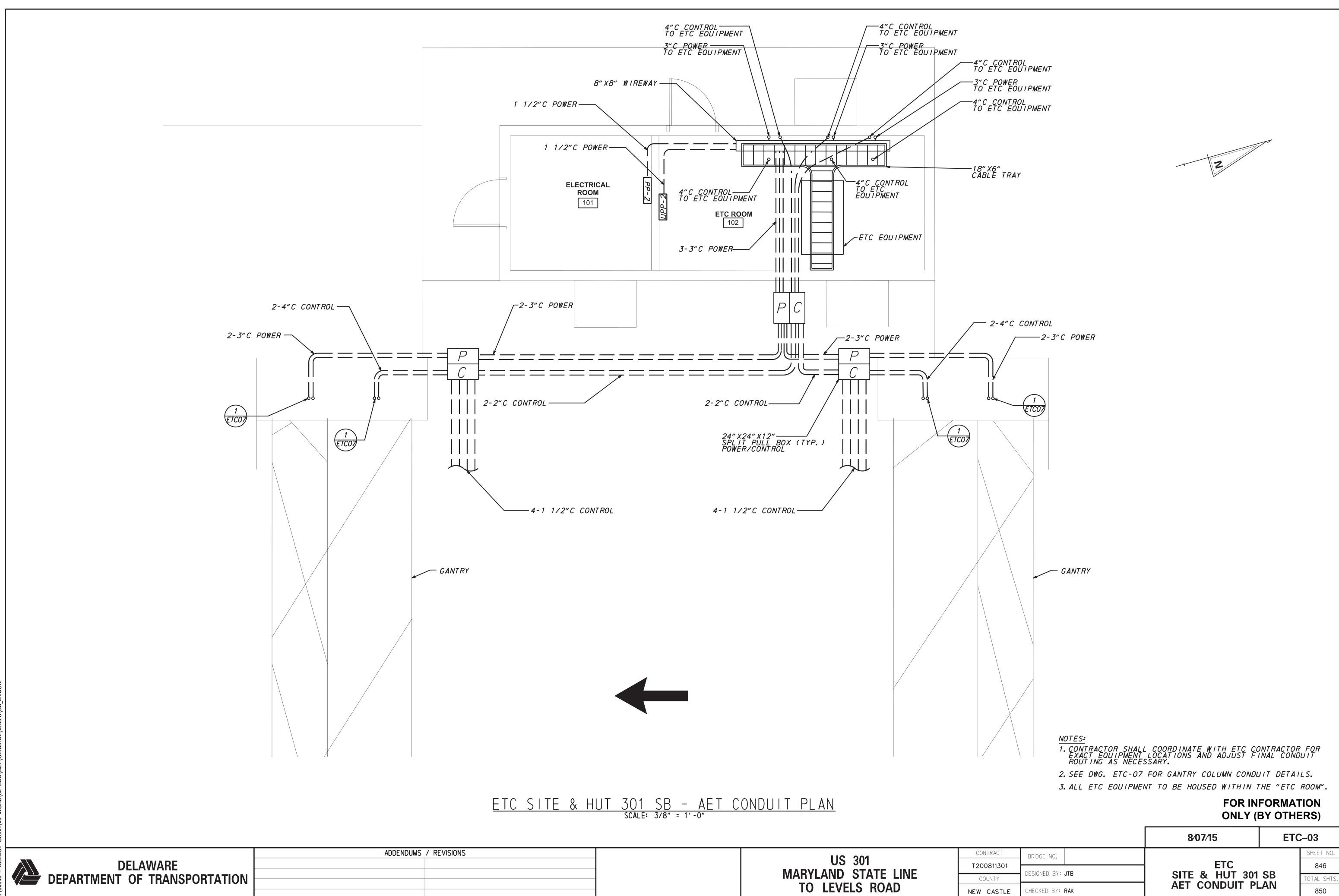


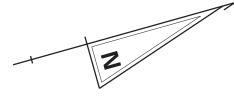
| DELAWARE | | | | |
|------------|----|----------------|--|--|
| DEPARTMENT | OF | TRANSPORTATION | | |

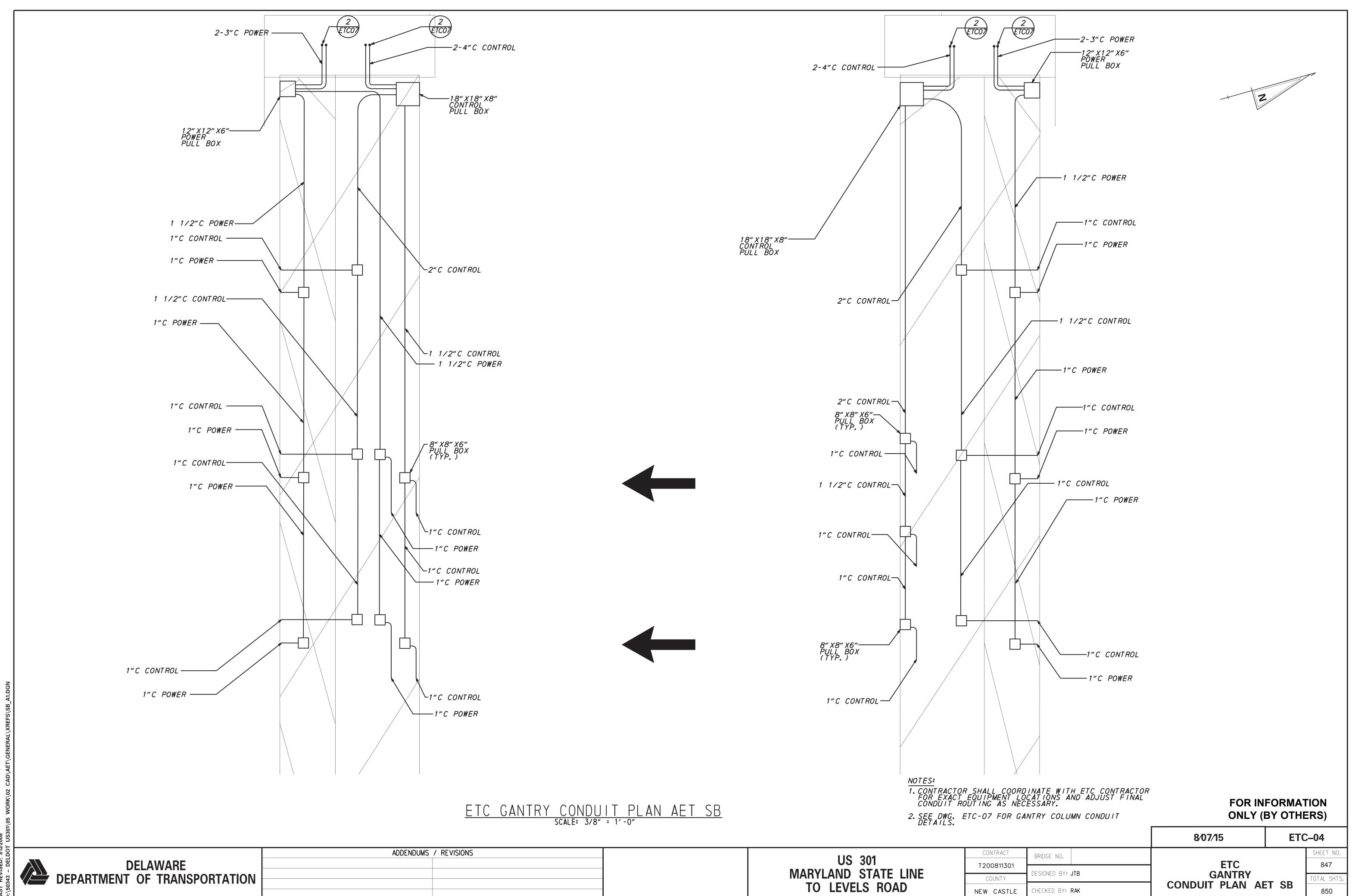
ADDENDUMS / REVISIONS

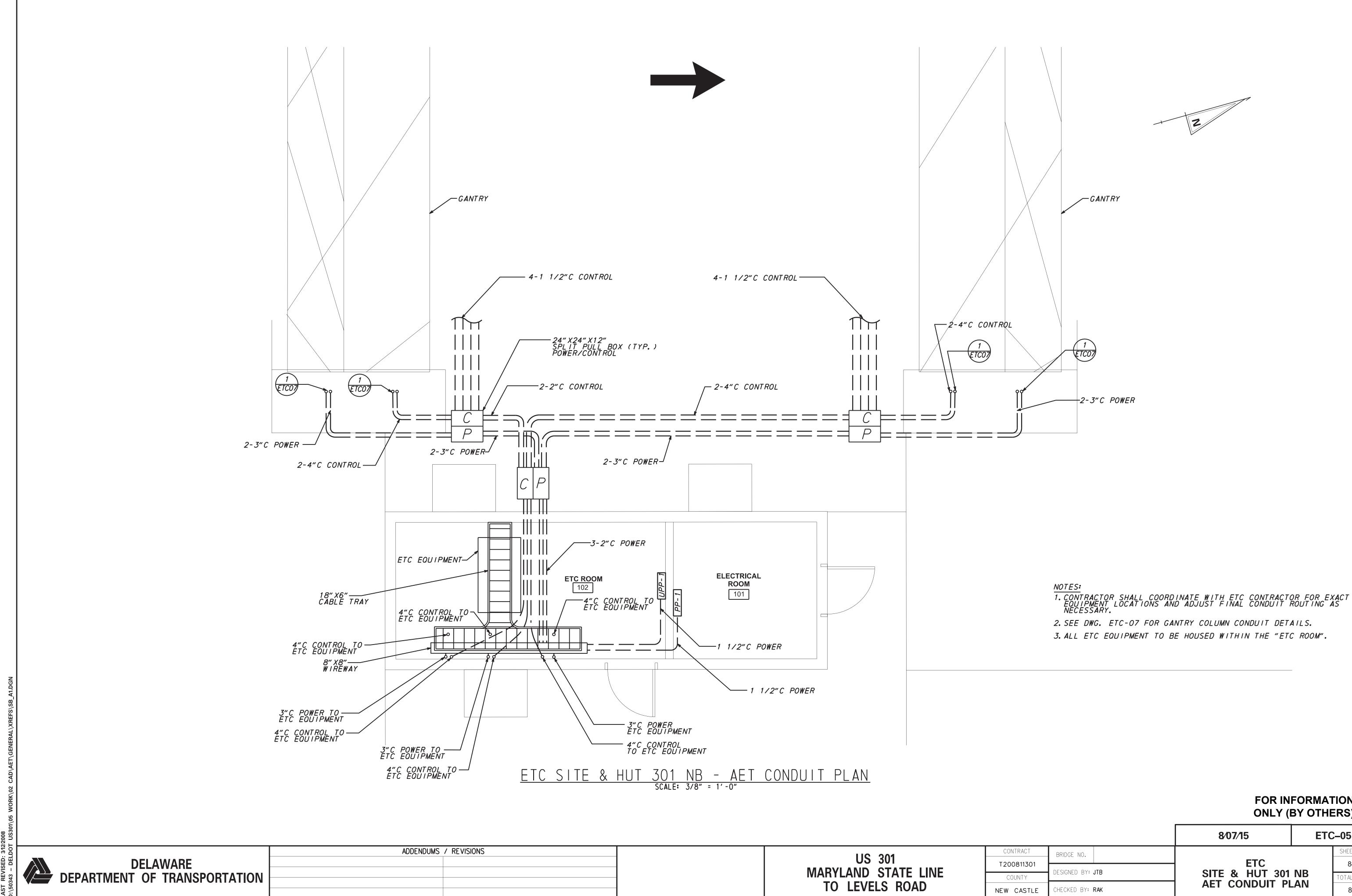
| <u>SITE PLAN</u> scale: 1" = 20'-0 | | |
|---------------------------------------|-------------------------------|-----|
| 5 | 110 001 | CC |
| | US 301 MADVLAND STATE LINE | T20 |
| | MARYLAND STATE LINE | (|
| | TO LEVELS ROAD | NEW |

| | | UNET (| |
|---------------------|-------------------------|-----------|--------------------|
| | | 8⁄07⁄15 | ETC-02 |
| CONTRACT | BRIDGE NO. | ETC | SHEET NO. |
| 200811301 COUNTY | DESIGNED BY: JTB | OVERALL | 845 Total shts. |
| W CASTLE | CHECKED BY: RAK | SITE PLAN | 850 |



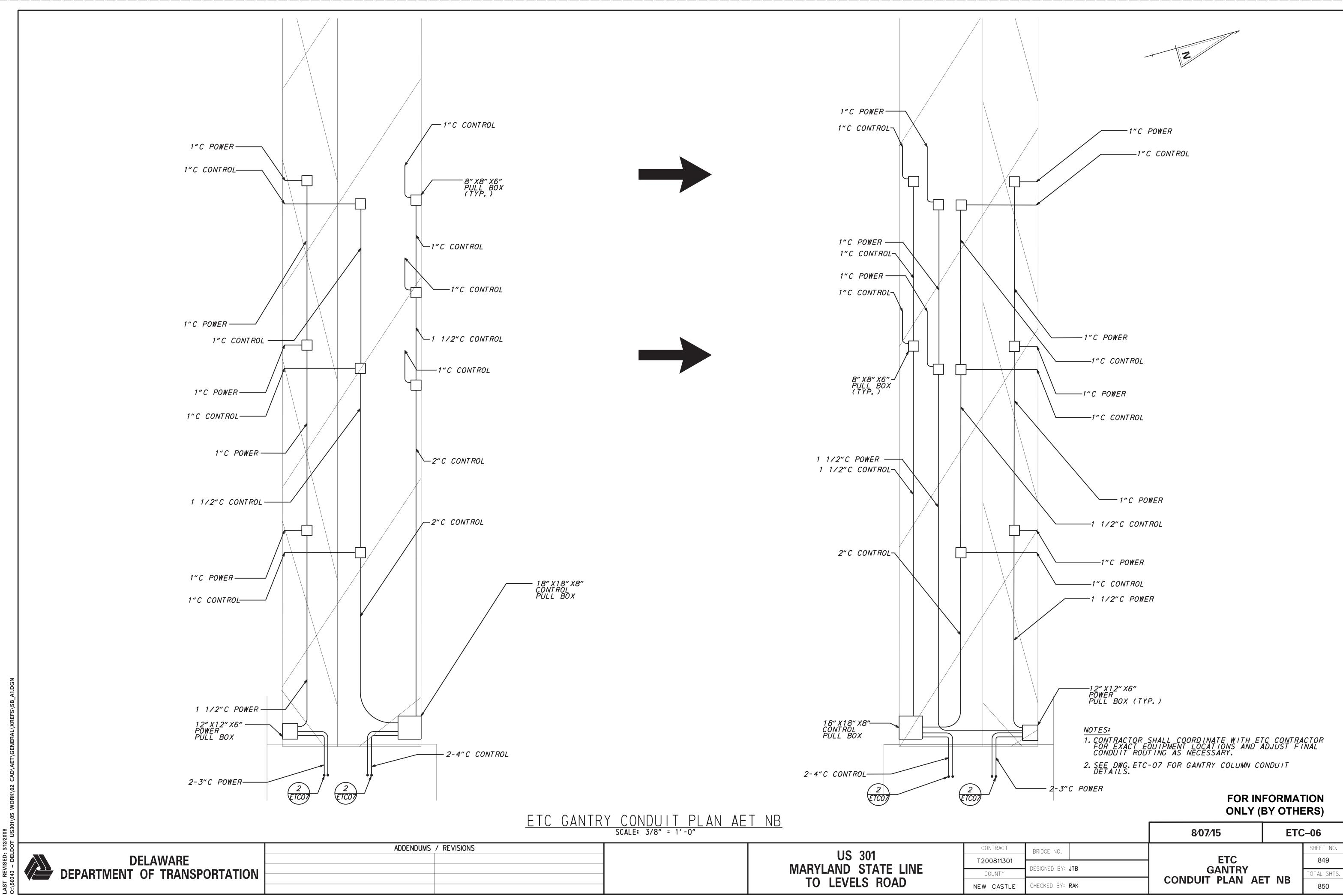


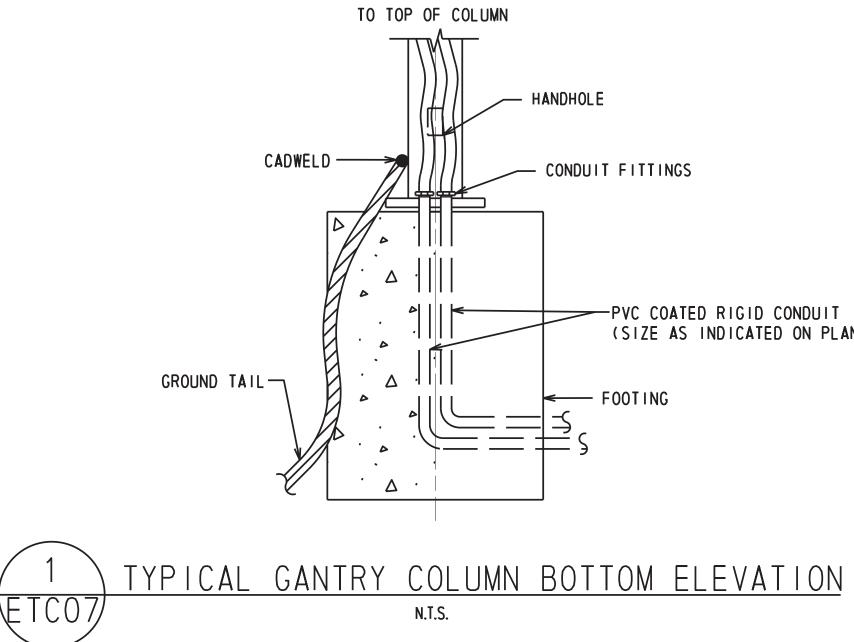


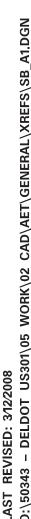


FOR INFORMATION ONLY (BY OTHERS)

| | | 8⁄07⁄15 | ETC-05 |
|------------|-------------------------|----------------|---------------|
| CONTRACT | BRIDGE NO. | | SHEET NO. |
| T200811301 | | ETC | 848 |
| COUNTY | DESIGNED BY: JTB | SITE & HUT 301 | |
| NEW CASTLE | CHECKED BY: RAK | AET CONDUIT PL | AN 850 |





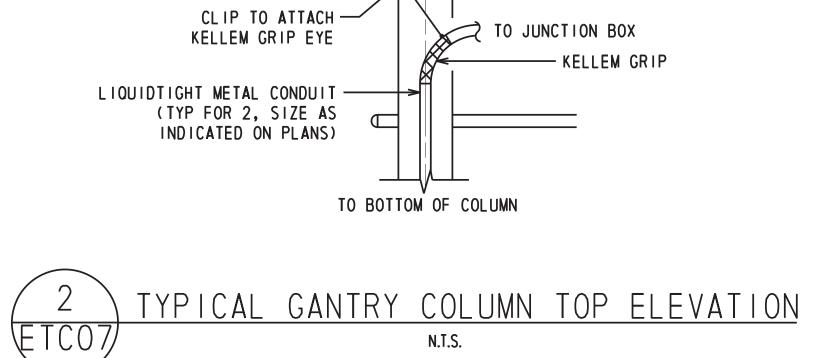


| DF | -ΙΔ | WARE | - |
|----|-----|----------------|---|
| | | TRANSPORTATION | |

ADDENDUMS / REVISIONS

- CONDUIT FITTINGS

FOOTING



| | | | | | FORMATION BY OTHERS) |
|-----|---------------------|------------|------------------|---------|-------------------------|
| | | | | 8⁄07⁄15 | ETC-07 |
| ONS | | CONTRACT | BRIDGE NO. | | SHEET NO. |
| | US 301 | T200811301 | | ETC | 850 |
| | MARYLAND STATE LINE | COUNTY | DESIGNED BY: JLG | DETAILS | TOTAL SHTS. |
| | TO LEVELS ROAD | NEW CASTLE | CHECKED BY: RAK | | 850 |

| | T0 | JUNCTION BC | X |
|---|----|-------------|------|
| 1 | | KELLEM | GRIP |

င့္ TOWER POLES