

## CITY OF CLARKSTON SPLOST 4

PEDESTRIAN CROSSING IMPROVEMENTS NORTH INDIAN CREEK DRIVE FROM CHURCH STREET TO ROGERS STREET



DEKALB

PROJECT NUMBER

SPEED DESIGN:

35 MPH (N INDIAN CREEK DR.) 25 MPH (ROWLAND ST.)

#### FUNCTIONAL CLASSIFICATION

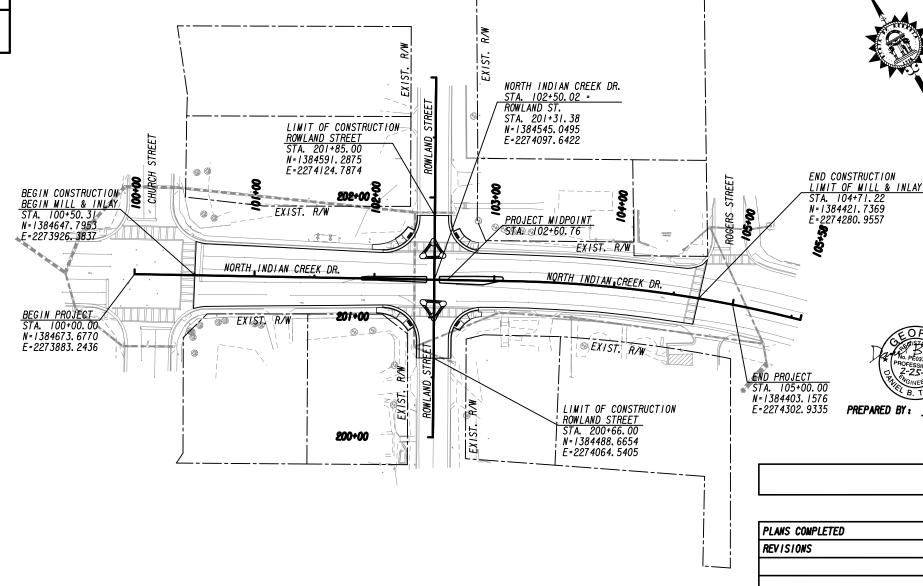
N INDIAN CREEK DR. : URBAN MAJOR **COLLECTOR** 

THIS PROJECT IS 100% IN DEKALB COUNTY AND IS 100% IN CONG. DIST. NO. 4. PROJECT DESIGNATION: EXEMPT

THIS PROJECT HAS BEEN PREPARED RELATIVE TO THE GEORGIA STATE PLANE COORDINATE SYSTEM, WEST ZONE AS REFERENCED TO NAD83 (2011) HORIZONTAL AND NAVD88 (GEOID2012A) VERTICAL.

ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO 'STATE HIGHWAY DEPARTMENT OF GEORGIA', 'STATE HIGHWAY DEPARTMENT", GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE CITY OF CLARKSTON.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE CITY OF CLARKSTON IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



LENGTH OF PROJECT

COUNTY: DEKALB

NET LENGTH OF ROADWAY

NET LENGTH OF BRIDGES

NET LENGTH OF PROJECT

NET LENGTH OF EXCEPTIONS

GROSS LENGTH OF PROJECT

COUNTY No. 089

MILES

0.080 0.000 0.080

0. 000 0. 080

MID-POINT COORDINATES STA 102+60.76 N 1384539.5238 E 2274106.8526



DESIGN

PREPARED BY:

ROBIN GOMEZ

CITY WANAGER

18TP032\_01.dgn 2/25/2019 7:55:29 AM

PROJECT NO. \$\$PENTABLE\$\$ PROJECT A DRAWING NO. DESCRIPTION DRAWING NO. DESCRIPTION GA DOT STANDARDS & CONSTRUCTION DETAILS 1-0001 COVER SHEET INDEX 2-0001 DATE GA DOT CONSTRUCTION DETAILS GENERAL NOTES 4-0001 5-0001 TO 5-0004 A-3 | 09/2016 | SPECIAL DETAILS - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS TYPICAL SECTIONS A-4 | 06/2009 | DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS 9-0001 DETAILED ESTIMATE CONSTRUCTION PLANS TOI 01/2000 SIGN PLATES 13-0001 DRAINAGE PROFILES TO2 03/2000 DETAILS FOR TYPICAL FRAMING 22-0001 CROSS SECTIONS TO3a 07/2002 TYPE 7,8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL 23-0001 TO 23-0002 UTILITY PLANS TO5a 01/2003 DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2) 24-0001 SIGNING AND MARKING PLANS TO5b 01/2000 DETAILS OF REGULATORY SIGNS (SHEET 2 OF 2) 26-0001 TO5c 01/2000 DETAILS OF WARNING SIGNS SIGNAL PLANS 27-0001 TO 27-0004 TIIO 09/2016 DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY SIGNAL DETAILS 27-0005 TO 27-0011 T12a 01/2000 DETAILS OF PAVEMENT MARKING ARROW LOCATION 51-0001 ESPC GENERAL NOTES SHEET T12b | 04/2000 | DETAILS OF PAVEMENT MARKINGS - ARROWS 52-0001 TO 52-0007 EROSION CONTROL LEGEND BMP LOCATION DETAILS TI3a | 09/2016 | DETAILS OF PAVEMENT MARKINGS - WORDS 54-0001 TI3b | 09/2016 | DETAILS OF PAVEMENT MARKINGS - WORDS TI3c | 09/2016 | DETAILS OF PAVEMENT MARKINGS - WORDS T14 | 11/2008 | DETAILS OF PAVEMENT MARKING HATCHING T15a 09/2016 DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY TI5c 09/2011 DETAILS OF RAISED PAVEMENT MARKERS T16a 03/2016 DETAILS OF SHARED BICYCLE LANE DATE GA DOT STANDARDS 1019A 08/1999 DROP INLETS 1019A-P 08/1999 PRECAST DROP INLETS 1030DI | 09/2001 | CONCRETE AND METAL PIPE CULVERTS (SHEET 1 OF 3) 1030D2 | 09/2001 | CONCRETE AND METAL PIPE CULVERTS (SHEET 2 OF 3) 1030D3 09/2001 CONCRETE AND METAL PIPE CULVERTS (SHEET 3 OF 3) 9032B | 11/2011 | CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS 9100 03/2006 TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS 03/2006 TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON MULTI-LANE UNDIVIDED HIGHWAY DATE | EROSION CONTROL STANDARDS D-24A 01/2011 TEMPORARY SILT FENCE D-24C | 01/2011 | TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS D-42 | 05/2008 | INLET SEDIMENT TRAPS EC-LI 03/2017 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET I OF 7) EC-L2 | 11/2018 | EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7) EC-L3 03/2017 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7) EC-L4 03/2017 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7) EC-L5 | 03/2017 | EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7) EC-L6 | II/2018 | EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7) EC-L7 | 03/2017 | EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7) THE GDOT STANDARDS AND CONSTRUCTION DETAILS REQUIRED FOR THIS PROJECT ARE LISTED IN THE INDEX WITH THE LATEST KNOWN REVISION DATE BUT ARE NOT INCLUDED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ON THE PROJECT SITE THE GDOT STANDARD DRAWINGS AND THE CONSTRUCTION DETAIL DRAWINGS LISTED ON THE INDEX SHEET. FULL SIZED SHEETS MAY BE PURCHASED BY THE CONTRACTOR AT HIS EXPENSE FROM GDOT. REVISION DATES INDEX CLARKSTON PED ENHANCEMENTS N. INDIAN CREEK RD. AT ROWLAND ST. 6745 Sugarloaf Parkway • Suite 100 • Duluth, Georgia 30097 Phone: 770 • 447 • 8999 www.wolvertoninc.com

### SSPENTARIES

GENERAL NOTES:

- I. A NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT. PROJECT AREA: 0.53 AC. - DISTURBED AREA: 0.01 AC
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY OF CLARKSTON AND GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, GUIDELINES AND DETAILS.
- 3. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON CONSTRUCTION PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. CONTRACTOR TO COORDINATE WITH COLLABORATIVE INFRASTRUCTURE SERVICES, INC. (404-909-5619) CONCERNING UTILITIES.

| ATLANTA GAS LIGHT                       | GAS                | 404-922-3797 | CARLOS JAMES<br>10 PEACHTREE PLACE NE<br>ATLANTA, GA 30309                                    |
|---|--------------------|--------------|---|
| AT&T                                    | TELECOMMUNICATIONS | 305-409-1542 | ANGELO HINES<br>575 MOROSGO DRIVE<br>ATLANTA, GA 30324  |
| COMCAST                                 | CABLE              | 770-559-6052 | BRAD SEARS<br>1038 WEST PEACHTREE STREET<br>ATLANTA, GA 30309                                 |
| DEKALB COUNTY DEPT<br>OF WATERSHED MGMT | WATER AND SEWER    | 404-731-3562 | BARON SAUSSY<br>4572 MEMORIAL DRIVE<br>DECATUR, GA 30032                                      |
| GEORGIA POWER                           | ELECTRIC           | 404-506-6539 | LAMONTE WASLIEN<br>3825 ROGERS BRIDGE ROAD<br>BIN 78641<br>DULUTH, GA 30097                   |
| VERIZON                                 | TELECOMMUNICATIONS | 800-624-9675 | MCI NATIONAL FIBER SECURITY<br>DEPARTMENT<br>5055 NORTH POINT PARKWAY<br>ALPHARETTA, GA 30022 |

- 4. THE TOTAL AREA SHOWN ON THE PLANS FOR GRADING COMPLETE IS FOR INFORMATION ONLY. CITY OF CLARKSTON ASSUMES NO RESPONSIBILITY FOR THE ACCURACY. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL AREA WHEN BIDDING ON GRADING COMPLETE. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED IF THE CONTRACTOR RELIES ON THE AREA SHOWN ON PLANS. COST FOR ITEMS TO BE REMOVED WHICH DO NOT HAVE A SEPARATE PAY ITEM SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.
- 5. THE TOTAL AREA SHOWN ON THE PLANS FOR GRASSING IS FOR INFORMATION ONLY. THE CITY OF CLARKSTON ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL BID ON GRASSING, BY ACREAGE, AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL AREA TO BE GRASSED. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IF THE CONTRACTOR RELIES ON THE AREA SHOWN ON THE PLANS.
- INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES, REFER TO SUB-SECTION 107.07 OF THE GDOT STANDARD SPECIFICATIONS.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL PROPERLY OFF-SITE.

- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PREPARE A MAINTENANCE OF TRAFFIC PLAN USING THE GUIDELINES FOR APPROVAL BY THE ENGINEER BEFORE STARTING CONSTRUCTION. PAYMENT SHALL BE INCLUDED IN PRICE FOR TRAFFIC CONTROL LUMP SUM. APPROVAL BY COLLABORATIVE INFRASTRUCTURE SERVICES, INC. (404-909-5619) AND PERMITTING WILL BE REQUIRED.
- 9. PRICE BID FOR TRAFFIC CONTROL-LUMP SUM SHALL INCLUDE, BUT IS NOT LIMITED TO AGGREGATE SURFACE COURSE CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNAGE AND PAVEMENT MARKINGS, BARRICADES, CHANNELIZING DEVICES, DETOUR PAVING, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND/OR AS DIRECTED BY THE ENGINEER.
- 10. CURB CUT (WHEELCHAIR) RAMPS SHALL BE CONSTRUCTED AT ALL POINTS WHERE SIDEWALK TERMINATES AT CURB OR IS BISECTED BY DRIVEWAYS, IF NECESSARY. THE EXACT TYPE OF RAMP (TERMINAL OR ON CURB RADIUS) MAY BE MODIFIED AS DIRECTED BY
- II. ALL CUT AND FILL SLOPES SHALL BE GRASSED AS DIRECTED BY THE ENGINEER IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION. IF THE SEASON DOES NOT PERMIT GRASSING, STRAW MULCH STABILIZATION SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- 13. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION OR AS DIRECTED BY THE ENGINEER.
- 14. ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING, NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE ENGINEER. SEE GEORGIA STANDARD SPECIFICATIONS CURRENT EDITIONS, REGARDING EROSION CONTROL.
- 15. ALL SIDEWALK AND HANDICAP RAMPS SHALL BE IN ACCORDANCE WITH GDOT SPECIAL DETAILS AND COLLABORATIVE INFRASTRUCTURE SERVICES, INC. (404-909-5619).

#### GENERAL NOTES: SIGNING AND MARKING

- ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED. IN THE PRICE BID FOR THE SPECIFIC ITEM.
- 2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND ANY APPLICABLE GDOT
- 3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SPECIFICATIONS AND/OR SPECIAL
- 4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS I OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- TYPE II (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (RI-1, RI-2, RI-3P, R5-1, R5-1A, R5-1B).
- 7. TYPE II (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
- 8. UNLESS OTHERWISE NOTED, SIGN POST SHALL BE STANDARD GALVANIZED IO FEET LONG, 2 INCHES SQUARE WITH TWO AND ONE QUARTER INCH (21/4") ANCHOR STUBS. STANDARD INSTALLATION DEPTH IS 3 FEET.
- 9. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS OF THE MUTCD, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM COLLABORATIVE INFRASTRUCTURE SERVICES, INC. (404-909-5619).
- 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL SIGNS/POSTS/PAVEMENT MARKINGS THAT ARE DUPLICATED OR CONTRARY TO THESE PLANS.
- II. ALL EXISTING PAVEMENT MARKINGS CONFLICTING WITH NEW PAVEMENT MARKINGS SHALL BE OBLITERATED (BLACKOUT PAINT IS PROHIBITED).

#### MAINTENANCE OF TRAFFIC NOTES:

- I. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL, LUMP SUM.
- 2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (LATEST EDITION).
- 3. ALL SIGNS SHALL HAVE HIGH INTENSITY GRADE SHEETING.
- 4. EXISTING TRAFFIC SIGNS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. MAINTENANCE INCLUDES REPLACING DAMAGED OR STOLEN SIGNS, AND PERIODIC CLEANING OF EXISTING SIGNS AND CONSTRUCTION RELATED TRAFFIC CONTROL
- 5. REFLECTORIZED DRUMS SHALL BE USED FOR CHANNELIZATION FOR TRAFFIC IN ALL TRAFFIC SHIFTS, MAXIMUM SPACING EQUALS THE DESIGN SPEED LIMIT FOR THE TAPER,
- 6. ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR SO AS TO NOT INTERFERE WITH SIGHT DISTANCES ALONG ANY ADJACENT SIDE ROAD OR DRIVEWAY.
- 7. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM COLLABORATIVE INFRASTRUCTURE SERVICES, INC. (404-909-5619) PRIOR TO MAKING ANY REVISIONS TO THE MAINTENANCE OF TRAFFIC PLAN.

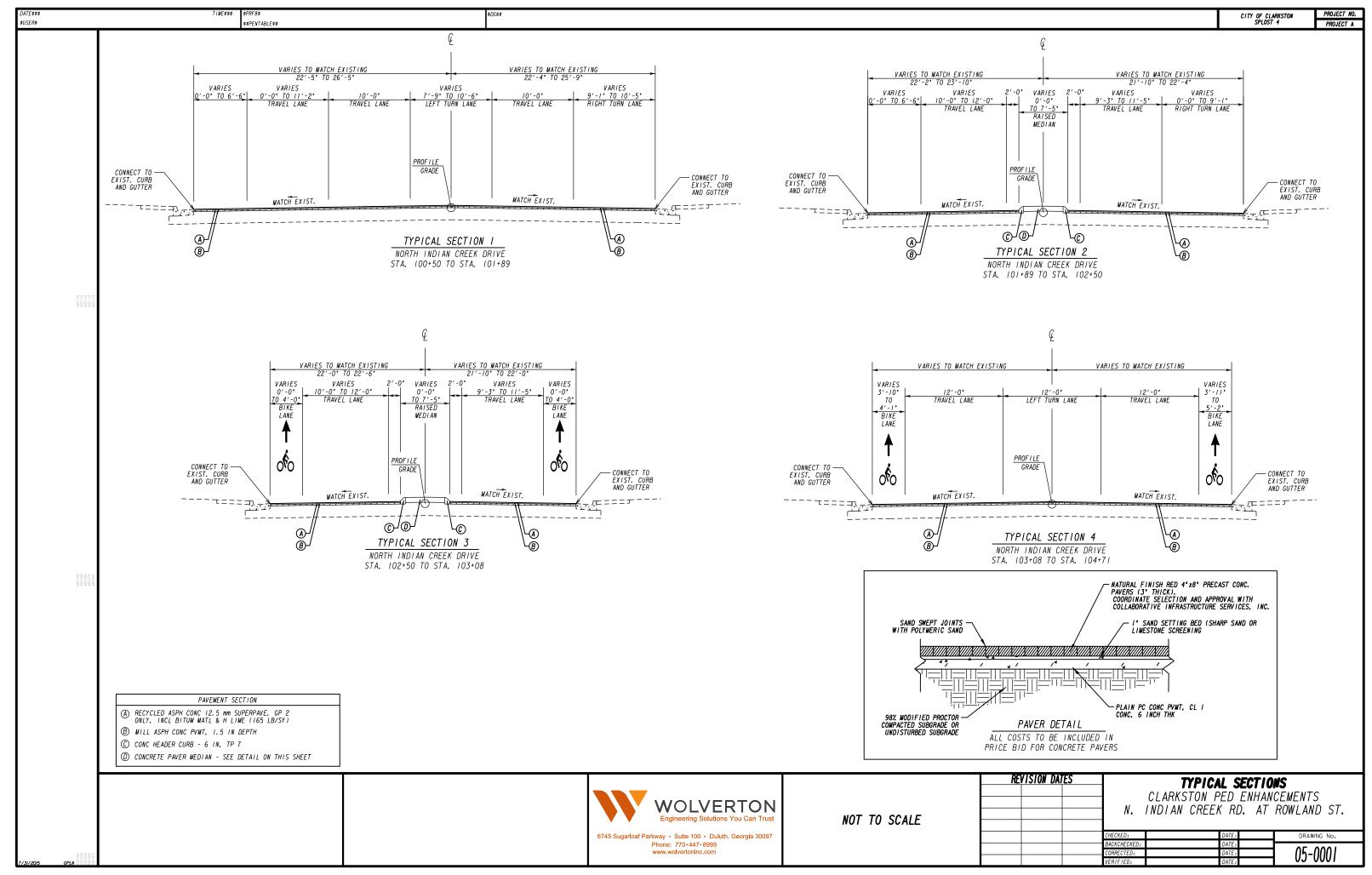


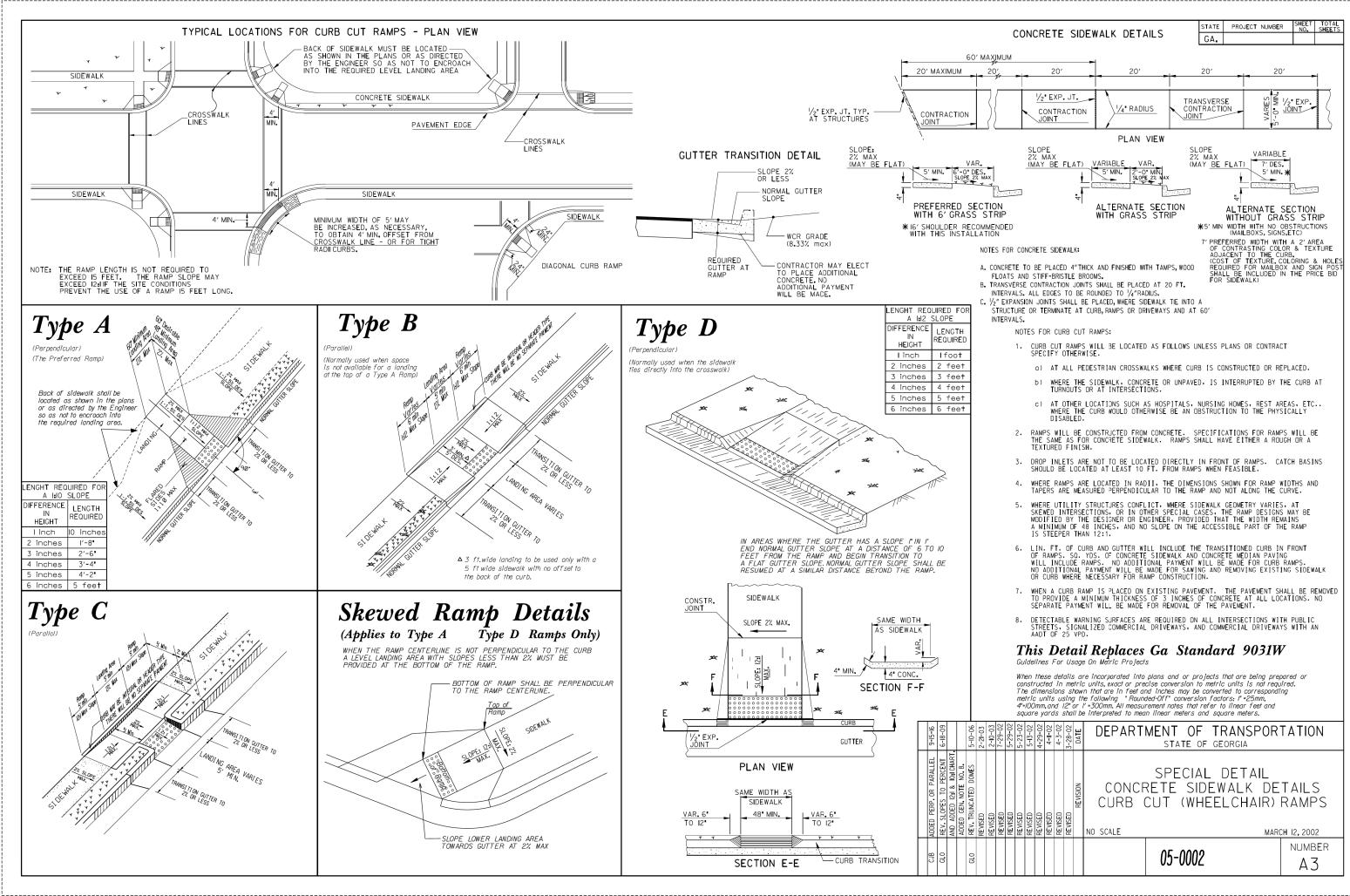
Know what's below. Call before you dig.

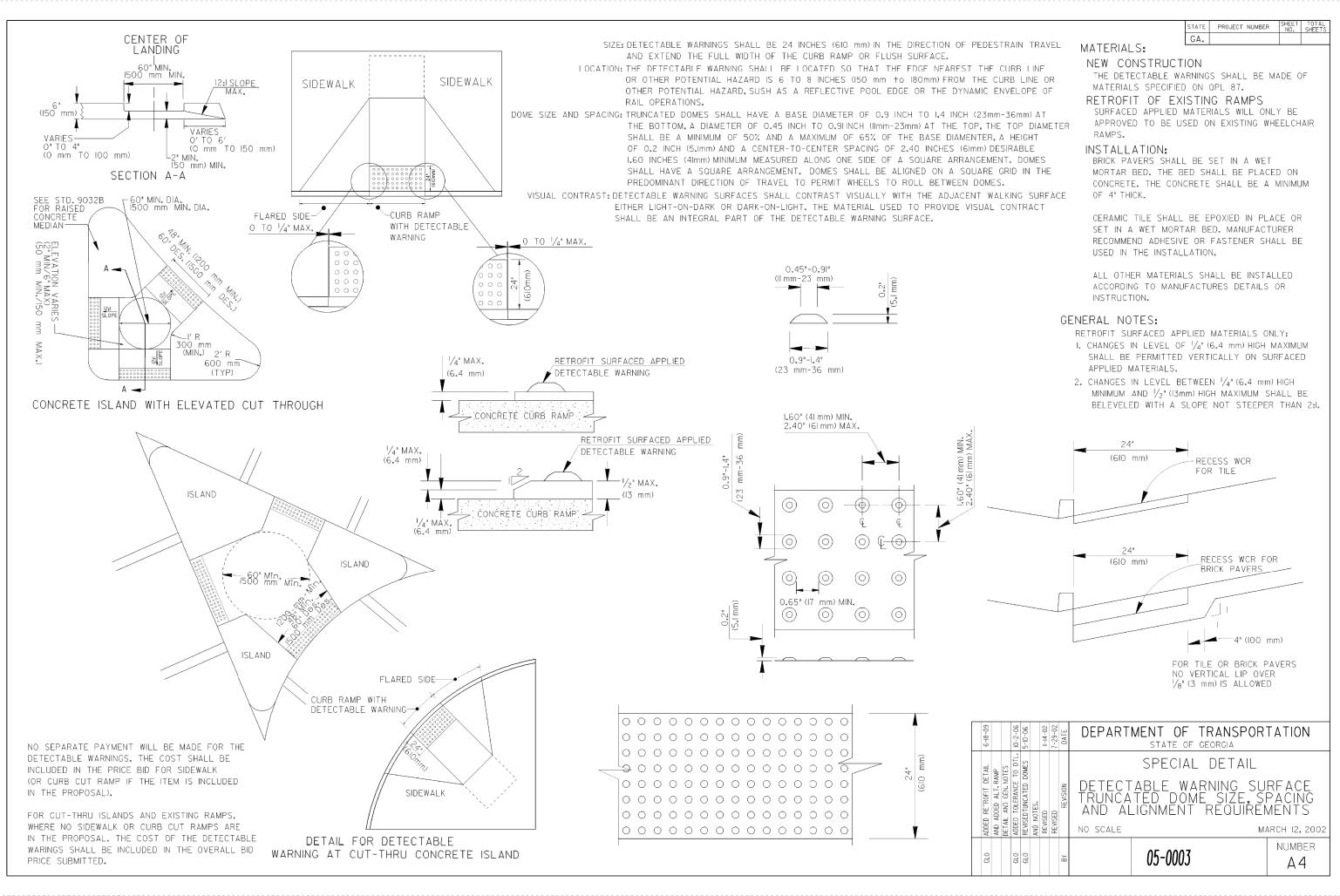


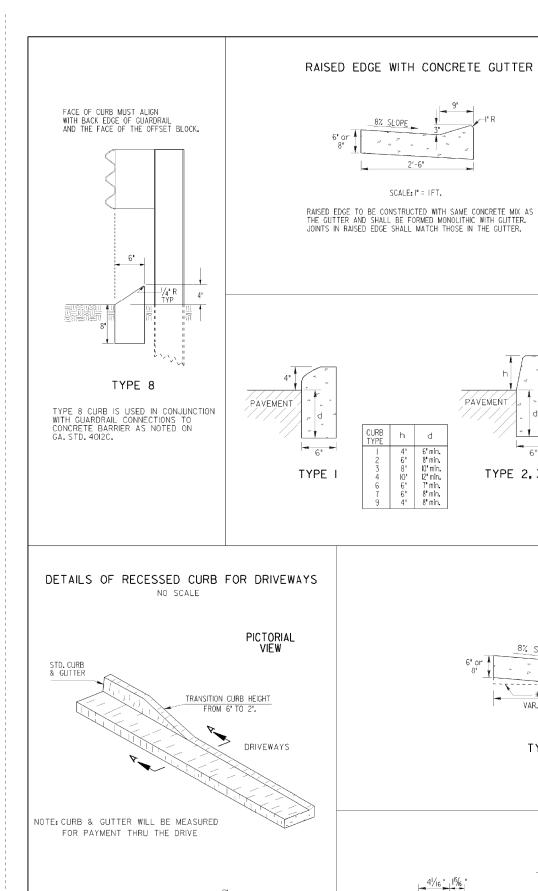
www.wolvertoninc.com

| REVISION DATES | N.       | <b>GENERAL NOTES</b><br>CLARKSTON PED ENHANCEMENTS<br>INDIAN CREEK RD. AT ROWLAND ST. |
|----------------|----------|---|
|                | CHECKED: | DATE: DRAWING No.   |







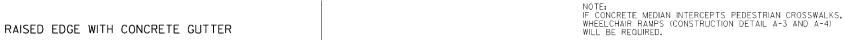


PAVEMENT

TYPE 2, 3 OR 4

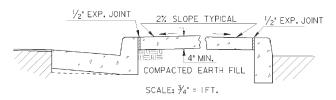
6" min.

10' min. 12" min. 7" min. 8" min.



#### CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL OTHER TYPES MAY BE SPECIFIED.

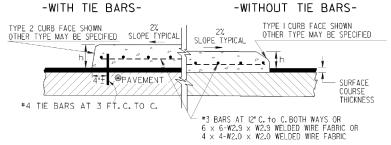


NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

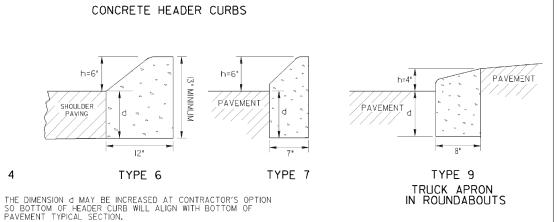
## STATE PROJECT NUMBER

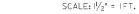
#### CONCRETE MEDIANS (Integral)

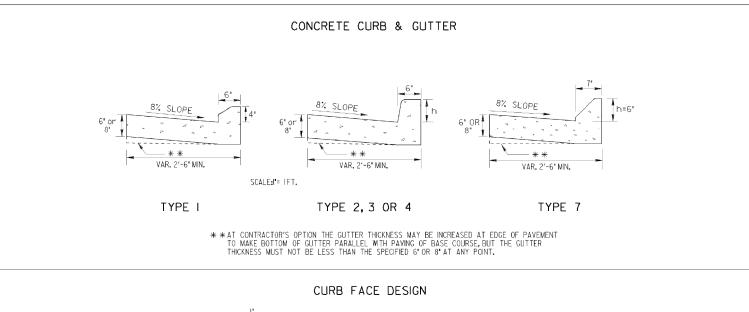
SCALE: I'=IFT.

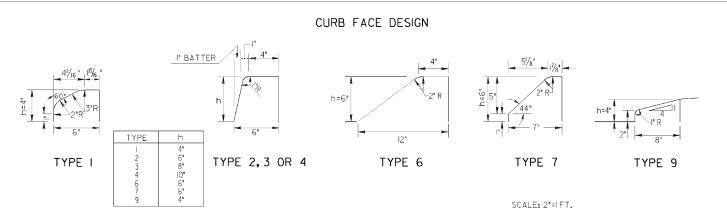


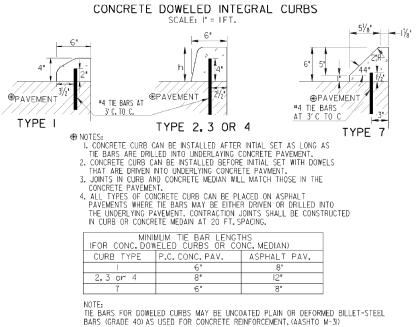
NOTE: IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

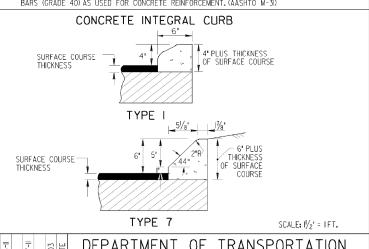












|                | 11-12-11                | 1-27-11         |            | 3-03                | DATE     | DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA  |
|----------------|-------------------------|-----------------|------------|---------------------|----------|--|
| <del>1</del> 4 | REV. TYPE 9 CURB DETAIL | EV. MEDIAN NOTE | TYPE 9 CUR | ADDED TYPE 9 DETAIL | REVISION | STANDARD  CONCRETE CURB & GUTTER CONCRETE CURBS, CONCRETE MEDIANS  SCALE: AS SHOWN REVISED AND REDRAWN OCT. 2011 |
| 100-cn         | TC                      | 000             |            |                     | BY       | DES. (SUBMITTED) STATE DESIGN POLICY ENGINEER TRA. (APPROVED) Den all M Run CHK. CHIEF ENGINEER  ONUMBER  9032B  |

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

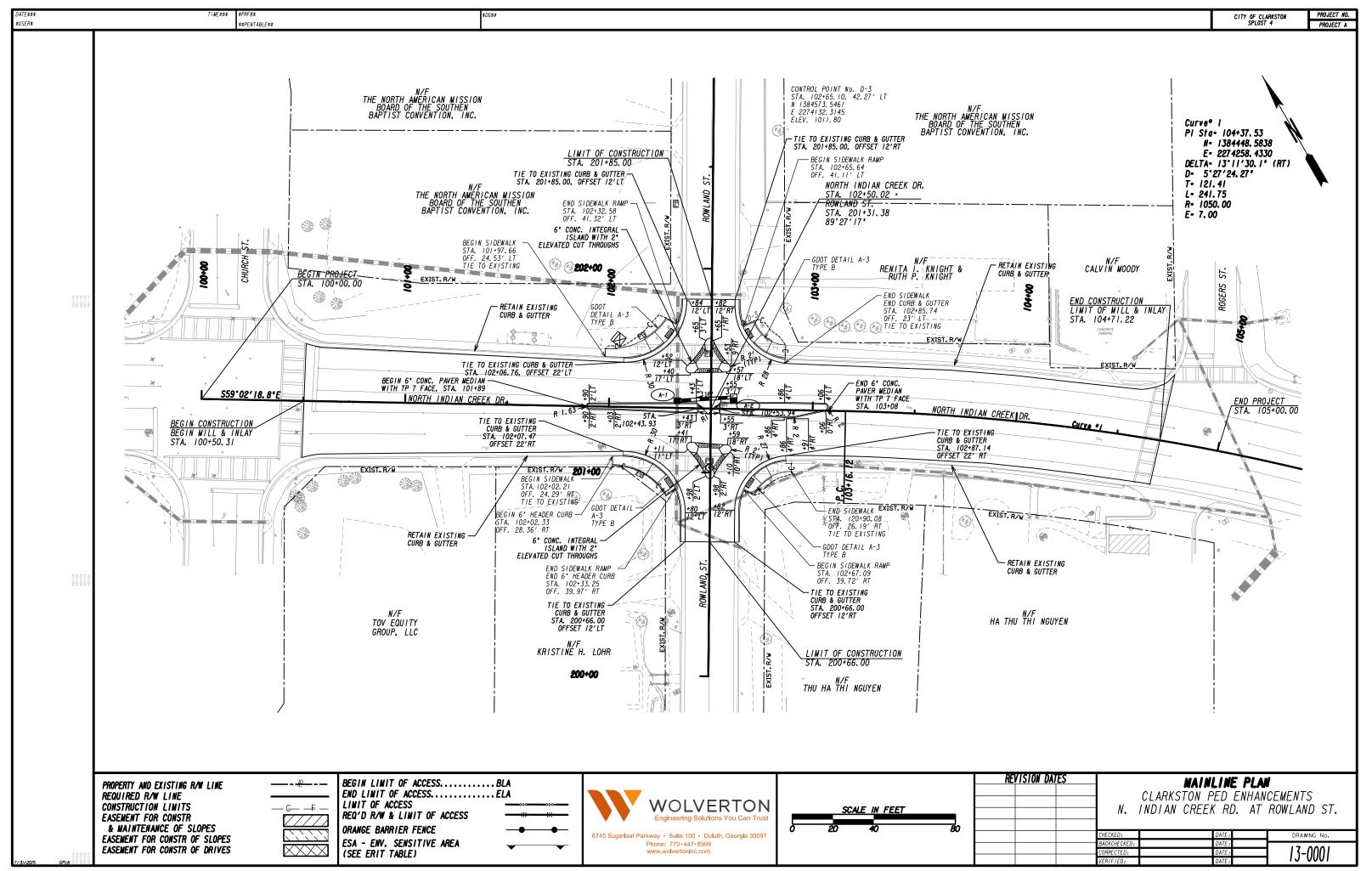
SECTIONAL VIEW

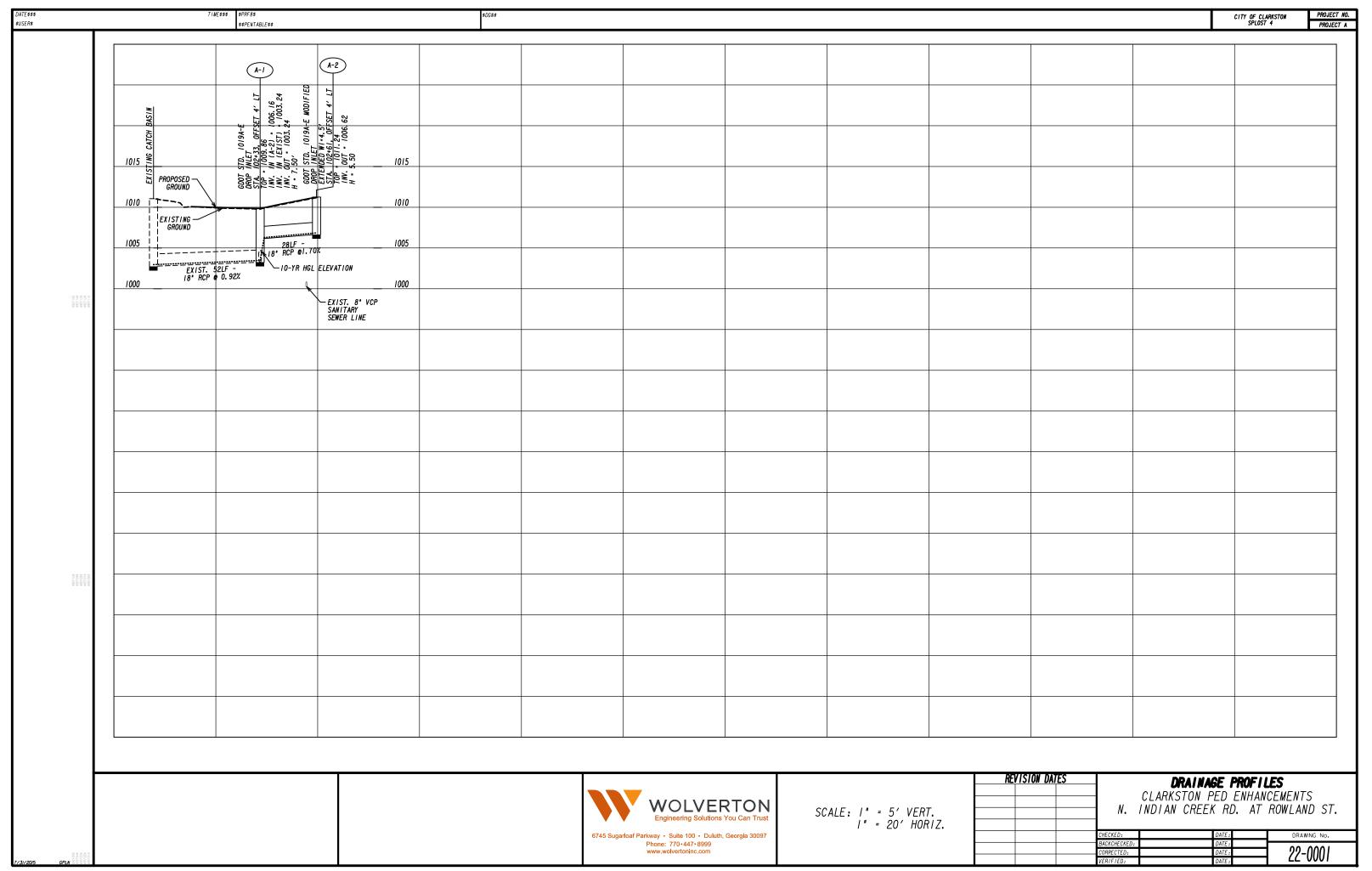
SECTION A-A

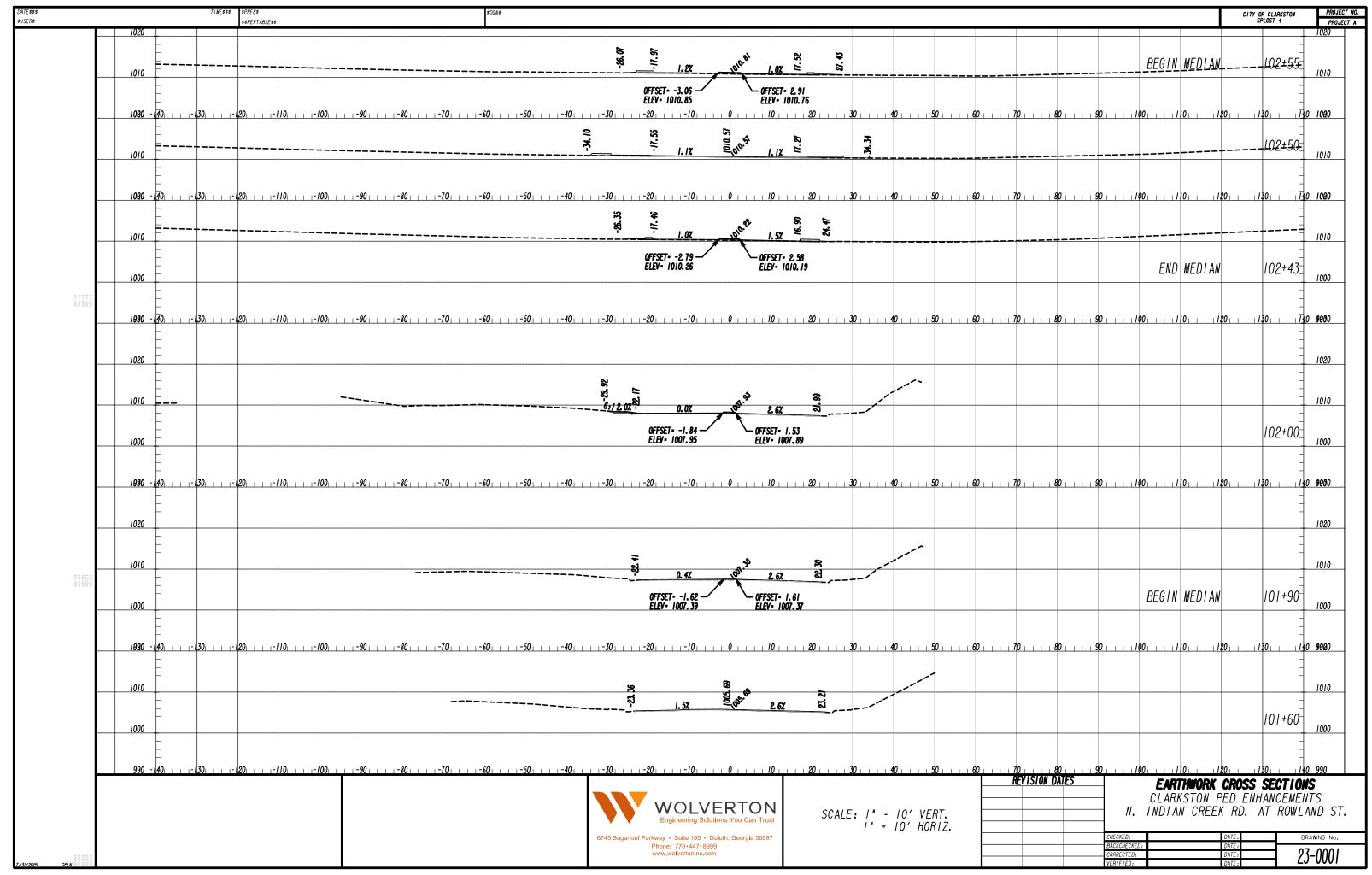
TRANSITION CURB HEIGHT FROM 6" TO 2".

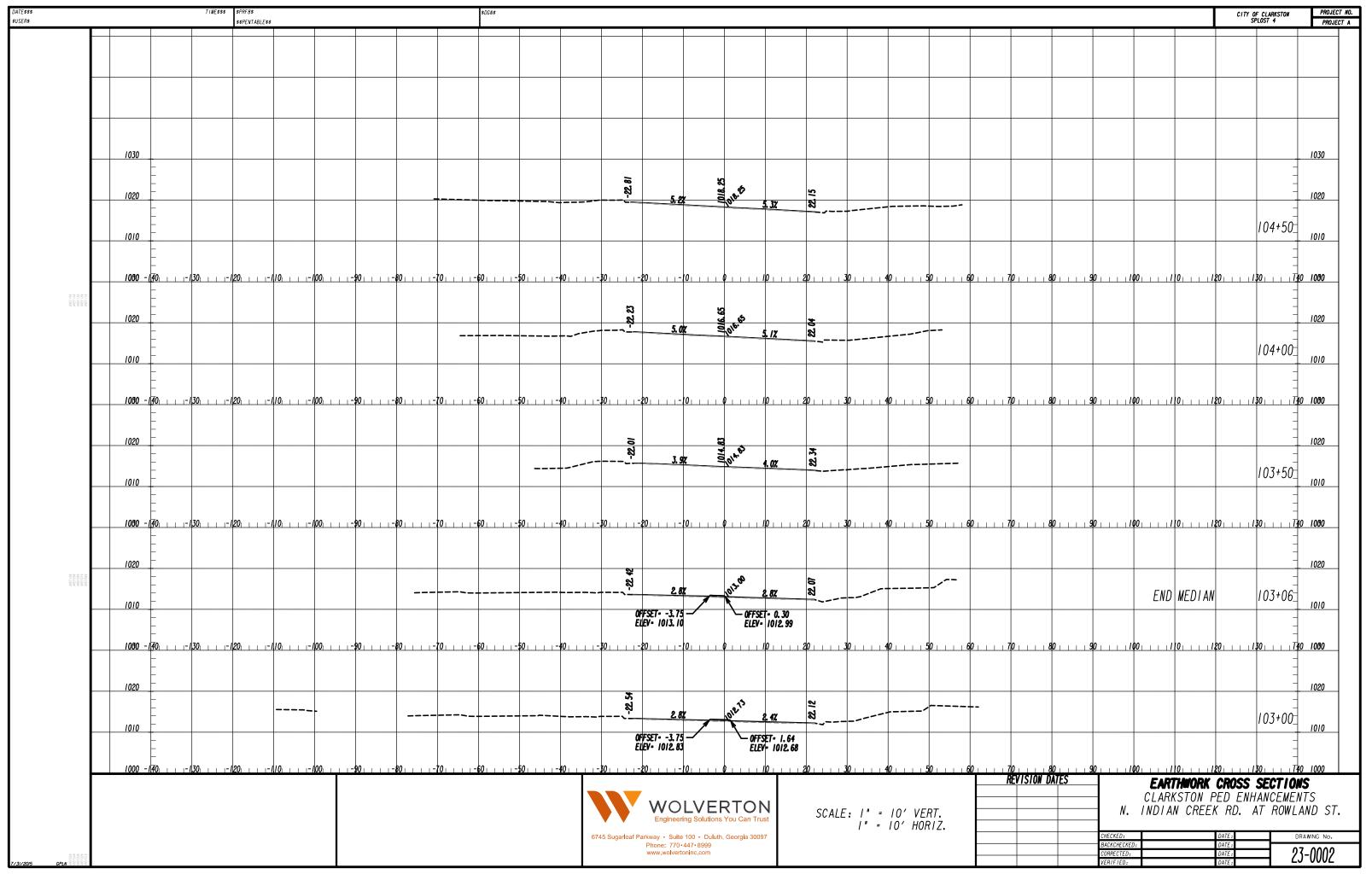
|  | QUANTITY                       |         | LUMP     | LUMP<br>24  | 197      | 2387                                | 80  | 456      | 210   | 233      | 28       | 2 2  |   | -        | - e      | 2 2                    | 05                              |                           | <b>-</b>      | 7 33     | 50       | 7                                  |          | 7   | 52                   | 85                     | 2                              | 2 2   | 1 9                                     | en 1                                    | 688  | 433   | 456  | 293<br>85   | 95                                    | 18                       | 233  |          | 4        | ω 3                                     | 3100     | 099  | 3100   | ~ ·          |                                    | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 280                          | 140                     | 1        |
|--|--------------------------------|---------|----------|---|----------|-------------------------------------|---|----------|---|----------|----------|--|---|----------|----------|------------------------|---------------------------------|---------------------------|---------------|----------|----------|------------------------------------|----------|---|----------------------|------------------------|--------------------------------|---|---|---|--|---|--|---|---------------------------------------|--------------------------|--|----------|----------|---|----------|--|--|--------------|------------------------------------|---|------------------------------|-------------------------|----------|
|  | TIND                           |         | S        | S L   | Z 5      | - Xs                                | λς<br>S                                   | SF       | <u> </u>  | : 5      | H        | EA<br>LF                                       | i | AC       | 2 2      | Z 2                    | 9   F                           |                           | AC            | Z 4      | ¥ 5      | EA                                 | <u> </u> | n d   | R S                  | <u>"</u>               | E E                            | EA C  | EA                                      | EA                                      | EA FJ  | <u>"</u>                                      | 1 H  | GLF   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | E E                      | SY<br>E  | <u>-</u> | EA       | EA                                      | <u> </u> | <u>ا</u> ا                                   | GLF<br>SY  | EA           | EA                                 | EA                                      | i                            | I.F                     | EA<br>EA |
| 10.11 (10.12 (10 | DETAILED ESTIMATE  DESCRIPTION | ROADWAY | ROJECT A | GRADING COMPLETE - PROJECT A GRAGGR BASE CRS, INCL MATL |          | MILL ASPH CONC PVMT, 1 1/2 IN DEPTH | CONC SIDEWALK, 4 IN CONCRETE MEDIAN, 6 IN |          | CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 CONCRETE HEADER CURB. 6 IN, TP 2 |          |          | DROP INLET, GP 1. DROP INLET, GP 1, ADDL DEPTH |   |          |          | FERTILIZER MIXED GRADE | FER I LIZER NII ROGEN CON IEN I | TEMPORARY EROSION CONTROL | RARY GRASSING |          |          | MAINTENANCE OF INLET SEDIMENT TRAP |          | SIGNING AND MARKING  LIICHWAYSIGNS TD 1 MATI DEEL CHEETING TD 0 | ., REFL SHEETING, IP | GALV STEEL POSTS, TP 7 | PAVEMENT MARKING, SYMBOL, TP 4 | PAVEMENT MARKING, BIKE SHARED LANE SYMBOL THERMODIA SETC DIVINET MARBINIC APPOINTED 4 | THERMOPLASTIC PVMT MARKING, ARROW, TP 2 | THERMOPLASTIC PVMT MARKING, ARROW, TP 3 | THERMOPLASTIC PVMT MARKING, WORD, TP 1  THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW | THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE | THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE THERMOPLASTIC TRAF STRIPING WHITE | THERMOPLASTIC TRAF STRIPING, YELLOW   | RAISED PVMT MARKERS TP 3 | REMOVE EXIST TRAF STRIPE, ALL KINDS & TYPES  WET BEEL ECTIVE DREEDRAGED SOLID BAVEMENT MARKINGS & NICH WINE YELLOW |          |          | THERMOPLASTIC PVMT MARKING, ARROW, TP 2 |          | THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE | THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW THERMOPLASTIC TRAF STRIPING, YELLOW | <br>         | INTERNALLY ILLUMINATED STREET SIGN |   | CONDUIT, NONMETL, TP 3, 2 IN | DIRECTIONAL BORE - 5 IN | YPE      |
|  | ITEM NO.                       |         | 150-1000 | 310-1101  | 402-3130 | 432-0206                            | 441-0104                                  | 900-0037 | 441-6222  | 441-5008 | 550-1180 | 668-2100                                       |   | 700-6910 | 700-7000 | 700-8000               | /00-8100                        |                           | 163-0232      | 163-0240 | 165-0010 | 165-0105                           |          | 636-1033  | 636-1036             | 636-2070               | 652-0094                       | 652-0105  | 653-0120                                | 653-0130                                | 653-0210<br>653-1501   | 653-1502                                      | 653-1704                                     | 653-3501  | 653-6006                              | 654-1003                 | 656-3600   |          | 652-0094 | 653-0120                                | 653-1502 | 653-1804                                     | 653-3502<br>653-6006   | <br>639-3004 |                                    |   | 682-6233                     | 682-9950                | 926-2500 |

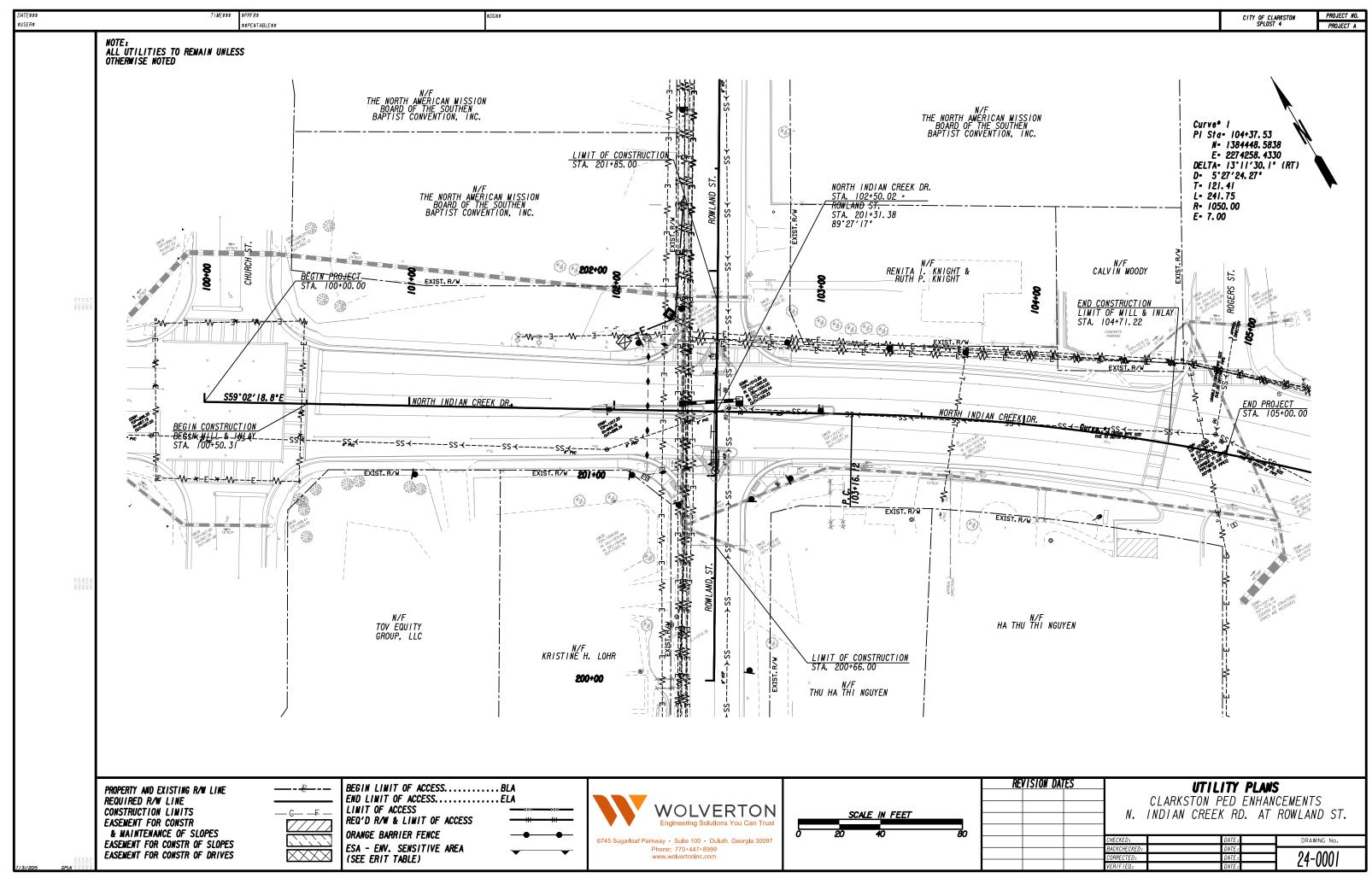
PROJECT NO. PROJECT A

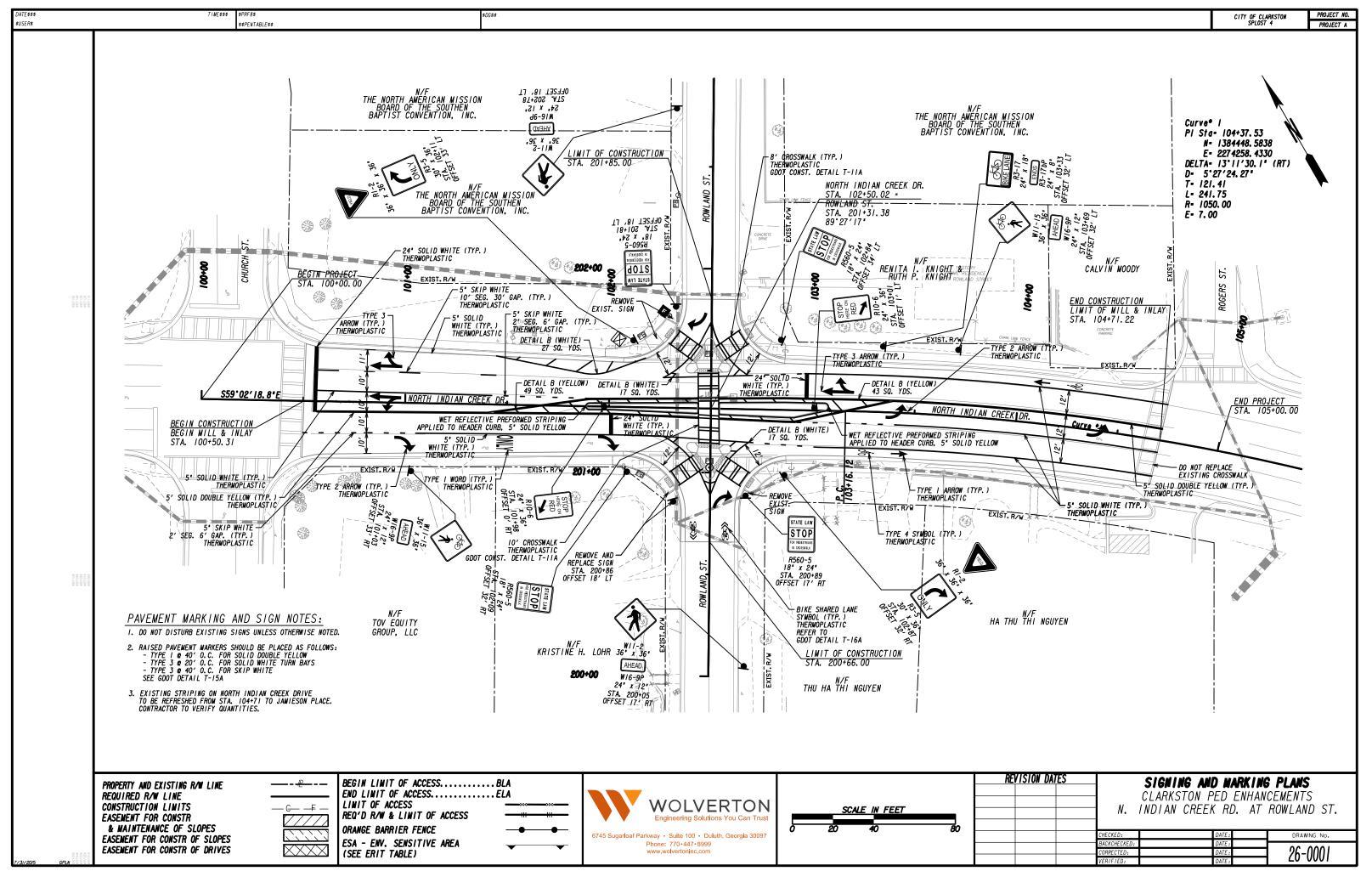




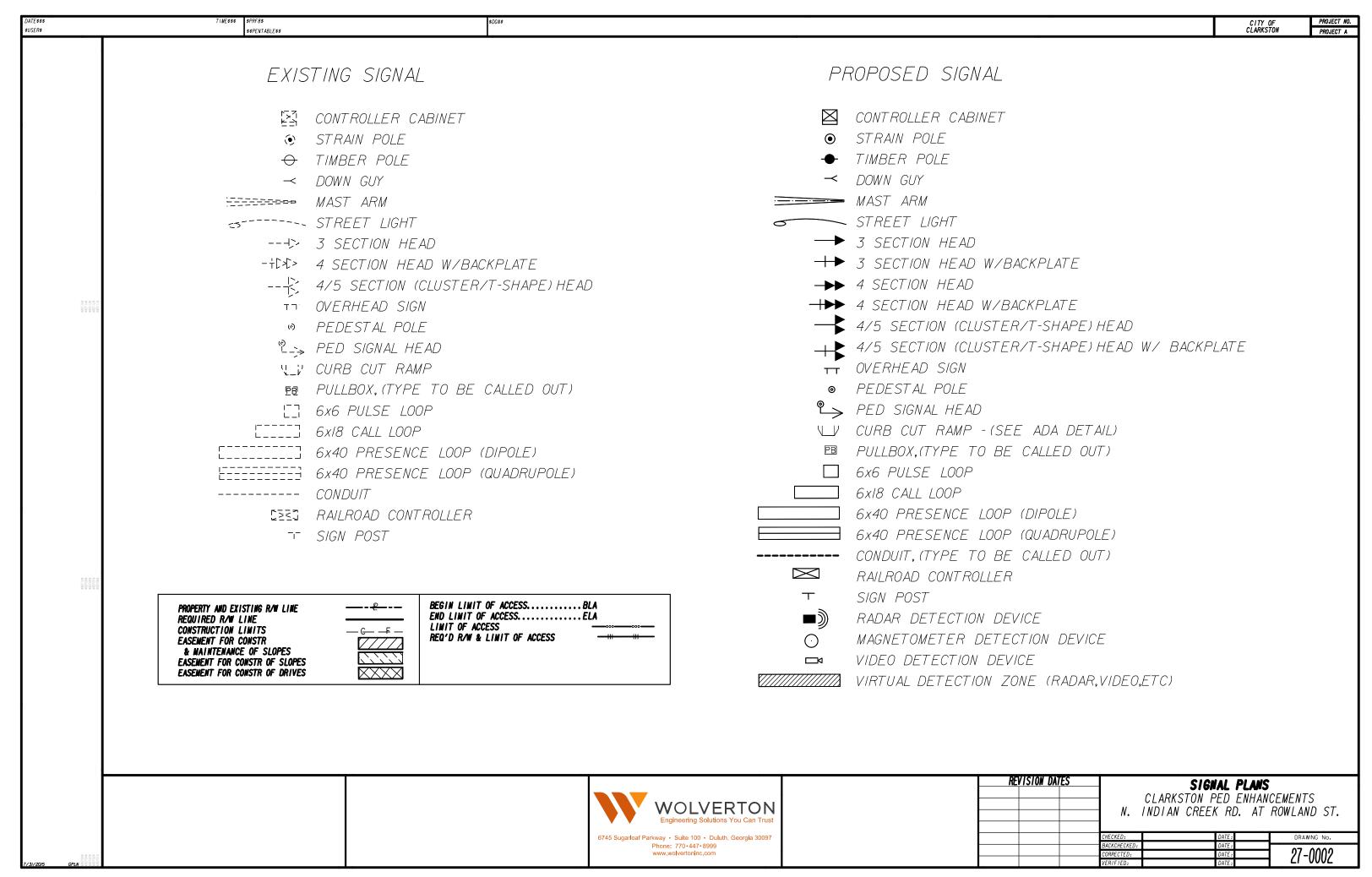


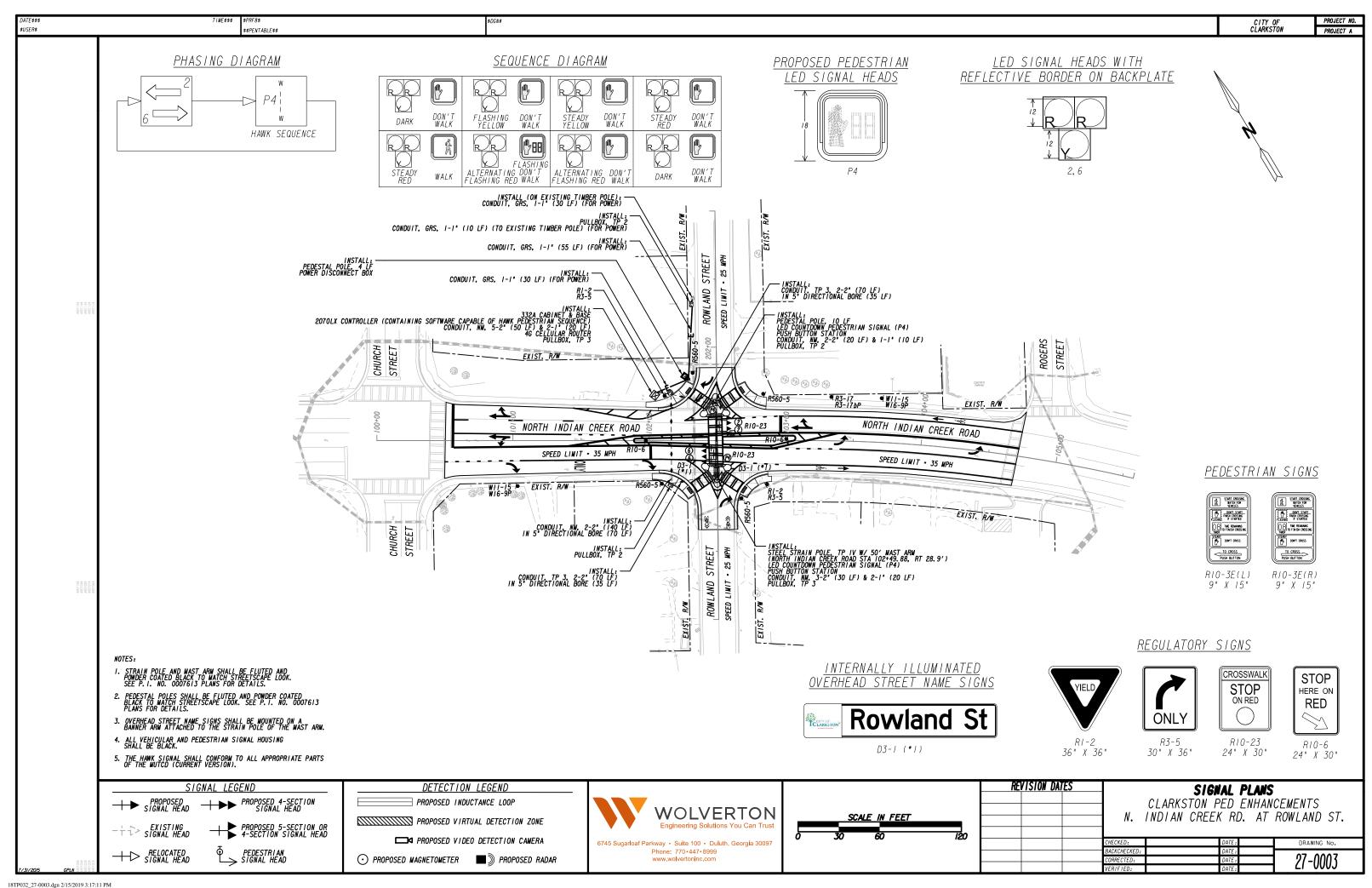






| DATE\$\$\$<br>\$USER\$  | TIME\$\$\$ \$PRF8\$<br>\$\$PENTABLE\$\$  | \$DGH\$   |   |  | CITY OF<br>CLARKSTON   | PROJECT<br>PROJECT                          |
|---|--|---|---|--|--|---|
|   |  | TRAFFIC SIGN.   | AL GENERAL NOTES  |  |  |   |
|   | PARTS OF THE MANUAL O  2. SIGNAL HEADS SHAL MORE THAN 19 FEET CLE SURFACE AND A MINIMUM OF SIGNAL FACES.  3. THE CONTRACTOR SH NEW TRAFFIC SIGNAL PO ENGINEER, MINOR SHIFT SIGNAL POLES ARE ACCE CLEARANCES FROM EDGE SIGNAL HEADS SHALL BE  4. THE CONTRACTOR WI UTILITY TIMBER POLES THE POLES UNLESS OTHE  5. INSTALLATION IS T PRIOR TO FINAL ACCEPT  6. WHEN REMOVED, EXI BY THE CONTRACTOR TO PROVIDE 48 HOURS ADVA (404) 296-6489.  7. FOR STRAIN POLE F POLE AND MAST ARM POLE  8. MATERIAL CERTIFIC | STING EQUIPMENT SHALL BE DELIVERED AND UNLOADED THE CITY OF CLARKSTON. THE CONTRACTOR SHALL NCED NOTICE. CONTACT THE CITY OF CLARKSTON AT  FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN LE FOUNDATION SHEET.  SATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL HE CONTRACTOR SHALL COORDINATE WITH COLLABORATIVE | II. THE CONTRACTOR SHALL REPLACE IN KIND EXPENSE TO COLLABORATIVE INFRASTRUCTURE SERICE, DITCH PAVING, CURBING, SIDEWALK, GOUARDRAILS, LANDSCAPING, GRASSINGS, UTILI PIPES, MASONRY WALLS AND PAVING THAT IS RUBE TO CONTRACTOR'S ACTIVITIES.  12. THE CONTRACTOR SHALL BE RESPONSIBLE MEASURES TO ENSURE COMPLIANCE TO ALL STATE GUIDELINES.  13. THE CONTRACTOR WILL BE RESPONSIBLE FOR MODIFYING AND ESTABLISHING NEW POWER AND TRAFFIC SIGNALS, DETECTION SYSTEMS AND/OR PROJECT. IF A UTILITY TRANSFORMER IS REQUIPMENT, IT IS THE RESPONSIBILITY OF THE COST, AS PART OF THE BID PRICE, FOR THAT INSTALLATION. IF THE RESPECTIVE UTILITY RINSTALLATION.  14. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL INST SATISFACTORILY COMPLETED A TEST PERIOD, 3 OPERATION. THE CONTRACTOR WILL COMPLETE A TO THE LOCAL GOVERNMENT MAINTAINING AGENCES.  15. ALL BORROW AND WASTE SITES FOR THIS PROPROVED PRIOR TO CONSTRUCTION ACTIVITIES OR EXCESS MATERIAL DISPOSED OUTSIDE THE PIN EITHER A PERMITTED SOLID WASTE FACILITOR IN AN ENGINEERED FILL. SEE SECTION 201 SUPPLEMENTS THERETO FOR ADDITIONAL INFORM | ERVICES, INC, ANY BARRIER WALL, UTTER, SLOPE PAVEMENT, SIGNS, TY SERVICE LINES, STORM DRAIN EMOVED. DAMAGED OR DESTROYED  FOR ALL EROSION CONTROL E AND FEDERAL LAWS AND  OR ALL FEES ASSOCIATED WITH COMMUNICATIONS SERVICES FOR CCTV CAMERAS ON THIS IRED FOR TRAFFIC SIGNAL E CONTRACTOR TO INCLUDE THE TRAFFIC SIGNAL EQUIRES PAYMENT FOR  OR ALL MONTHLY POWER AND AL INSTALLATION AND SUPPORT FALLATION HAS O DAYS OF UNINTERRUPTED TRANSFER OF UTILITY COST Y.  ROJECT SHALL BE ENVIRONMENTALLY OCCURRING IN THEM. ALL COMMON FILL ROJECT RIGHT OF WAY SHALL BE PLACED Y, A PERMITTED INERT WASTE LANDFILL OF THE GDOT STANDARD SPECIFICATION AND |  |   |
| 4 COLORS<br>4 C | NOT REMOVED OR RELOCA<br>CURRENT GDOT STANDARD<br>10. ACTUAL ATTACHMEN   | P BARS, WORDS, ARROWS AND CROSSWALKS THAT ARE<br>ATED SHALL BE REPLACED IN ACCORDANCE WITH<br>OS.<br>IT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER<br>BIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM   | I6. THERE IS NO KNOWN SUITABLE PLACE TO B<br>THE PROJECT LIMITS. THE CONTRACTOR SHALL<br>AS SHOWN IN GA SPECIFICATION 201 TO DISPO<br>NO ADDITIONAL COST TO COLLABORATIVE INFRA   | PROVIDE AN ENVIRONMENTALLY APPROVED SITE<br>SE OF EXISTING CONSTRUCTION DEBRIS AT  |  |   |
|   |  |   | 1999  | CLARKSOI   | IGNAL PLANS N PED ENHANCEME REEK RD. AT ROW  DATE: DATE: DATE: | ENTS<br>VLAND ST.<br>DRAWING NO.<br>27-0001 |





### LIST OF MATERIALS

| MATERIALS  | UNIT | QUANTITY |
|--|------|----------|
| CONTROLLER CABINET ASSEMBLIES  |      |          |
| A. CONTROLLER UNIT, MODEL 2070LX   | EA   | 1        |
| D. CABINET ASSEMBLY, MODEL 332A  | EA   | 1        |
| F. SWITCH PACK   | EA   | 3        |
| G. DC ISOLATOR   | EA   | 2        |
| K. 2010 CONFLICT MONITOR, EXTENDED FEATURES (ETHERNET)   | EA   | 1        |
| 332A PREFABRICATED CONTROLLER CABINET BASE   | EA   | 1        |
| LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)  | REEL | ,        |
| 3 PAIR, 18 AWG   | MEEL | i '      |
| SIGNAL CABLE (14 AWG)  | REEL | ,        |
| 7 CONDUCTOR, PER 1000 FT.  |      | '        |
| 3-SECTION, 12° SIGNAL HEAD, CLUSTERED, LED, YELLOW HOUSING W/ BLACK FRONT, PLASTIC                         | EΑ   | 4        |
| I-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP                                 | EA   | 2        |
| 9" HIGH, NUMBERS & I2" SYMBOLS   | LA   |          |
| PEDESTRIAN PUSH BUTTON STATION ASSEMBLY  | EA   | i ,      |
| 9" x 15", W/SINGLE PUSH BUTTON ADAPTER FOR STEEL STRAIN POLE, ADJUSTABLE                                   | LA   | '        |
| PEDESTRIAN PUSH BUTTON STATIONS, W/BUTTONS AND SIGNS:  | EA   | 2        |
| 9" x 15", R10-3e, (L)EFT OR (R)IGHT, COUNTDOWN   |      | _        |
| BACK PLATE FOR ONE-WAY, 3-SECTION, CLUSTERED, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP | EA   | 4        |
| HARDWARE FOR MAST ARM MOUNTING   | EA   | 4        |
| HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY                                    | EA   | <u> </u> |
| HARDWARE FOR SIDE-OF-POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY; CONCRETE, TIMBER, STEEL POLE                 | EA   | <u> </u> |
| PEDESTAL POLE, 10 FT, & SQUARE BASE  | EA   | 1        |
| PEDESTAL POLE, 4 FT, & SQUARE BASE   | EA   |          |
| PULLBOX, PB-2  | EA   | 3        |
| PULLBOX, PB-3  | EA   | 2        |
| CONDUIT, I'  | LF   | 50       |
| CONDUIT, 2°  | LF   | 100      |
| R10-23 \$16N   | EA   | 2        |
| POWER DISCONNECT BOX   | EA   |          |
| MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION  | LUMP | j /      |

LIST OF MATERIALS IS "FOR INFORMATION ONLY" AND SHOULD BE VERIFIED BY THE CONTRACTOR.

#### PAY ITEMS

| ITEM NO.   | DESCRIPTION  | UNIT | QUANTITY |
|------------|--|------|----------|
| 639-3004   | STEEL STRAIN POLE, TP IV - WITH 50 FT MAST ARM           | EA   | 1        |
| 647-1000   | TRAFFIC SIGNAL INSTALLATION NO. I                        | LUMP | 1        |
| 647 - 3000 | INTERNALLY ILLUMINATED STREET SIGN                       | EA   | 1        |
| 647-3001   | INTERNALLY ILLUMINATED STREET SIGN SIGN CONTROL ASSEMBLY | EA   | 1        |
| 682-6110   | CONDUIT, GRS, I IN                                       | LF   | 125      |
| 682-6233   | CONDUIT, NONMETAL, TP 3, 2 IN                            | LF   | 280      |
| 682-9950   | DIRECTIONAL BORE - 5 IN                                  | LF   | 140      |
| 926-2500   | 4G CELLULAR ROUTER, TYPE B                               | EΑ   | I        |

### 332 CABINET INPUT ASSIGNMENT

| SLOT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

#### UPPER INPUT FILE

|           | TYPE               | DET     | DET     | DET      | DET     | DET     | DET      | DET     | DET     | DET       | TBA | TBA      | DC      | DC      | DC     |
|-----------|--------------------|---------|---------|----------|---------|---------|----------|---------|---------|-----------|-----|----------|---------|---------|--------|
|           | CARD               |         |         |          |         |         |          |         |         |           |     |          | DC 1SO  |         | DC 1SO |
|           | CI PIN             | 56      | 39      | 63       | 47      | 58      | 41       | 65      | 49      | 60        |     | 80       | 67      | 68      | 81     |
| CHANNEL I | FUNCTION           |         |         |          |         |         |          |         |         |           |     | ADV ANCE |         |         | FLASH  |
|           | FIELD TER <b>W</b> | TB2 1,2 | TB2 5.6 | TB2 9.10 | TB4 1.2 | TB4 5.6 | TB4 9.10 | TB6 1,2 | TB6 5.6 | TB6 9, 10 |     |          | TB8 4.6 | TB8 7.9 | N/C    |

| ſ |           | CIPIN      | 56      | 43      | 76        | 47       | 58      | 45        | 78      | 49      | 62        | 53     | 69       | 70      | 82        |
|---|-----------|------------|---------|---------|-----------|----------|---------|-----------|---------|---------|-----------|--------|----------|---------|-----------|
|   | CHANNEL 2 | FUNCTION   |         |         |           |          |         |           |         |         |           | ENABLE | Ø 4 PED  |         | STOP TIME |
|   |           | FIELD TERM | TB2 3.4 | TB2 7.8 | TB2 11,12 | TB4 3, 4 | TB4 7.8 | TB4 11,12 | TB6 3,4 | TB6 7.8 | TB6 11,12 |        | TB8 5, 6 | TB8 8,9 | N/C       |

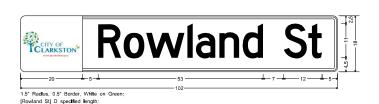
#### LOWER INPUT FILE

|           | TYPE       | DET     | DET      | DET       | DET     | DET     | DET       | DET     | DET      | DET       | TBA | TBA | DC      | DC      | DC         |
|-----------|------------|---------|----------|-----------|---------|---------|-----------|---------|----------|-----------|-----|-----|---------|---------|------------|
|           | CARD       |         |          |           |         |         |           |         |          |           |     |     |         |         |            |
|           | CI PIN     | 55      | 40       | 64        | 48      | 57      | 42        | 66      | 50       | 59        |     | 54  | 71      | 72      | 51         |
| CHANNEL I | FUNCTION   |         |          |           |         |         |           |         |          |           |     |     | EVA     | EVB     | RR I       |
|           | FIELD TERM | TB3 1,2 | TB3 5, 6 | TB3 9, 10 | TB5 1,2 | TB5 5,6 | TB5 9, 10 | TB7 1.2 | TB7 5, 6 | TB7 9, 10 |     |     | TB9 4,6 | TB9 7.9 | TB9 10, 12 |

|           | CI PIN     | 55      | 44      | 77        | 48      | 57      | 46        | 79      | 50      | 61        | 75      | 73      | 74      | 52        |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|---------|-----------|
| CHANNEL 2 | FUNCTION   |         |         |           |         |         |           |         |         |           | SPARE 3 | EVC     | EVD     | RR 2      |
|           | FIELD TERM | TB3 3,4 | TB3 7.8 | TB3 11,12 | TB5 3.4 | TB5 7.8 | TB5 11.12 | TB7 3,4 | TB7 7.8 | TB7 11.12 |         | TB9 5.6 | TB9 8.9 | TB9 11.12 |

#### DETAILS OF OVERHEAD STREET HAVE SIGHS

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.



D3-1 (#1)

#### GENERAL NOTES

- I. OVERHEAD STREEN NAME SIGNS SHALL BE INTERNALLY ILLUMINATED.
- 2. EACH SIGN SHALL CONTAIN A MINIMUM OF (2) UNDERHANG MOUNTS.
- 3. SIGN LEGEND SHALL BE II-IN. UPPER CASE & 9-IN. LOWER CASE SERIES \*D\* LETTERS.
- 4. THE LED MUST HAVE A WHITE ULTRA-BRIGHT LED ILLUMINATION.
- 5. THE OVERHEAD STREET NAME SIGN MUST HAVE A RAZOR FRAME THAT IS BLACK.
- 6. THE BACKGROUND COLOR SHALL BE 3M ELECTROCUT FILM OR COMPARABLE WITH THE FOLLOWING COLORS:

   GREEN EC FILM SERIES 1177
   YELLOW EC FILM SERIES 1171
- 7. INTERNALLY ILLUMINATED STREET NAME SIGNS WILL BE PAID FOR UNDER THE 647-3000 AND 647-3001 PAY ITEMS.

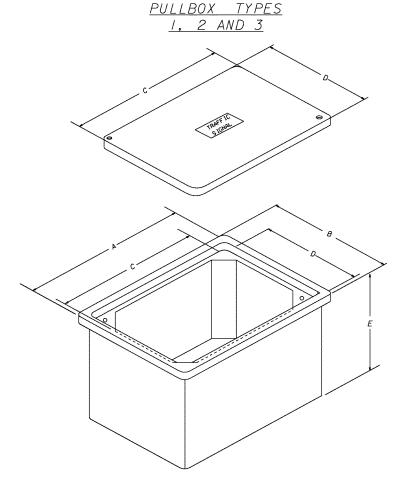


| REVISIUM DAIES | SIGNAL PLANS                       |
|----------------|------------------------------------|
|                | CLARKSON PED ENHANCEMENTS          |
|                | N. INDIAN CREEK RD. AT ROWLAND ST. |
|                |                                    |

|  |              | <br>  |                  |
|--|--------------|-------|------------------|
|  | CHECKED:     | DATE: | DRAWING No.      |
|  | BACKCHECKED: | DATE: | ] <del></del>    |
|  | CORRECTED:   | DATE: | <b>1</b> 27-0004 |
|  | VERIFIED:    | DATE: | בו טטטד          |
|  |              |       |                  |

PROJECT NO.

PROJECT A



| PULL BOX | * SIZE ( IN.) |    |    |    |    |  |
|----------|---------------|----|----|----|----|--|
| TYPE     | А             | В  | С  | D  | E  |  |
| 1        | 14            | 14 | 12 | 12 | 12 |  |
| 2        | 21            | 14 | 18 | 11 | 12 |  |
| 3        | 33            | 20 | 30 | 17 | 12 |  |
| 48       | 38            | 26 | 36 | 24 | 18 |  |
| 4        | 38            | 26 | 36 | 24 | 36 |  |
| 58       | 50            | 32 | 48 | 30 | 18 |  |
| 5        | 50            | 32 | 48 | 30 | 36 |  |
| 6        | 38            | 26 | 36 | 24 | 36 |  |
| 7        | 50            | 32 | 48 | 30 | 36 |  |

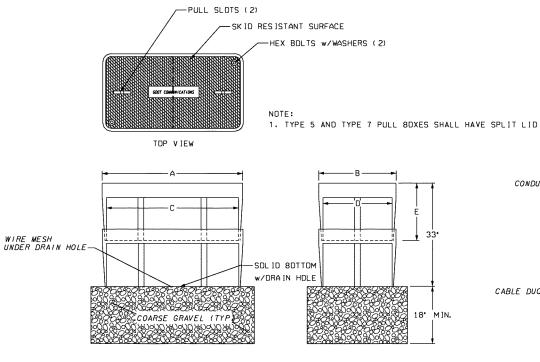
#### NOTES:

- 1. SIZES SHOWN ARE MINIMUM TRACE SIZES.
- 2. OIMENSIONS "C" ANO "O" ARE MINIMUM REQUIREMENTS WITH A TOLERANCE OF NO MORE THAN (-.050 IN/ + 2 IN)
- 3. EXTENO COARSE GRAVEL 6" BEYONO BASE OF PULL BOX
- 4. PULL BOXES TYPE 4, 4S, 5, 5S, 6 & 7 SHALL HAVE 1\* (DEGREE) FLARES FOR MAXIMUM STRENGTH
- 5. DESIGN PULL BOXES TO MEET OR EXCEED THE TIER LOADING SET FORTH IN SPECIFICATIONS 647.

#### Guidelines For Usage On Metric Projects

When these details are incorporated into pions and or projects that are being prepared ar constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion foctors: "-25mm, 4"-100mm, and 12" ar "-300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

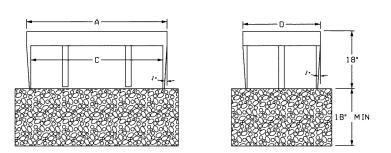
#### TYPE 4, 5, 4S, 5S, 6, AND 7 PULLBOX ASSEMBLIES



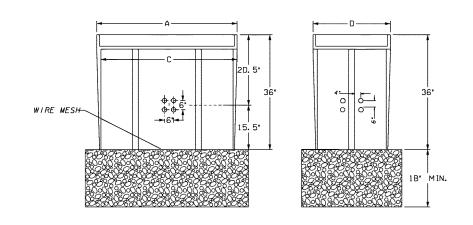
FRONT VIEW END VIEW

TYPE 4 AND 5

STACKABLE ASSEMBLY



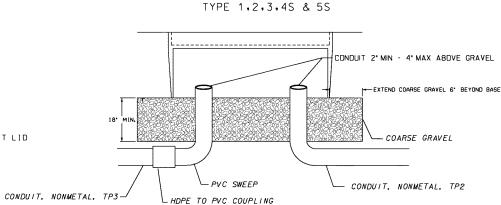
TYPE 4S AND 5S



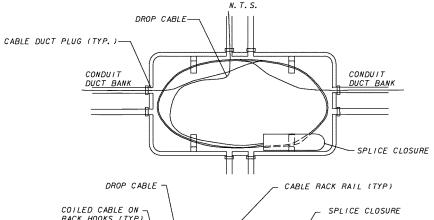
TYPE 6 AND 7

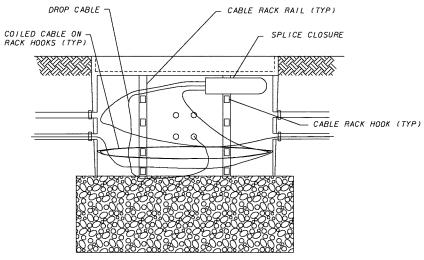
STATE COUNTY PROJECT NUMBER SHEET TOTAL NO. SHEETS

### TYPICAL CONDUIT ENTRANCE DETAILS

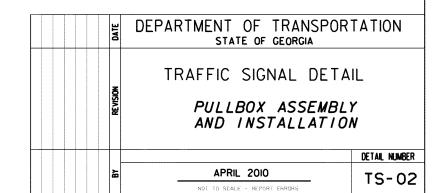


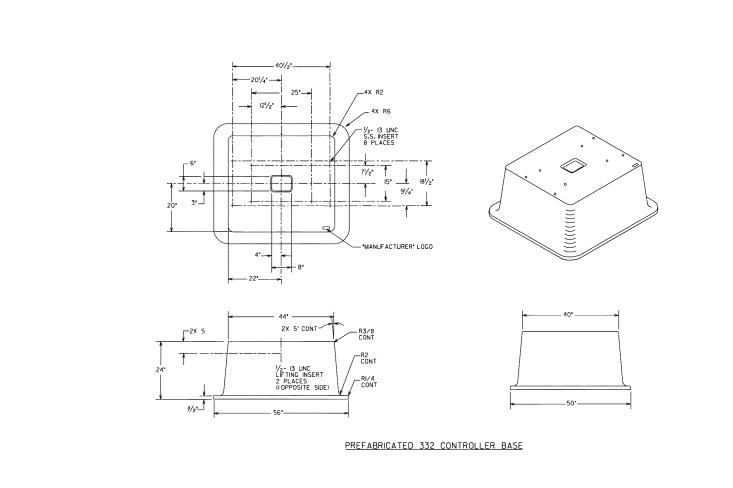
#### FIBER OPTIC CABLE MANAGEMENT IN TYPE 4,5,6 & 7 PULL BOX

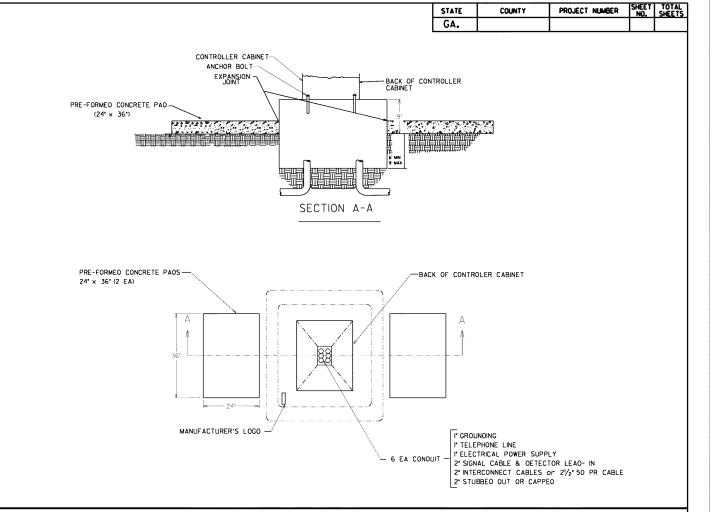




FIBER TRUNK AND DROP CABLE IN CLOSURE SHALL BE COILED TOGETHER. SEPARATE FIBER CABLES SHALL BE COILED SEPARATELY AND SUPPORTED ON SEPARATE RACK HOOKS.





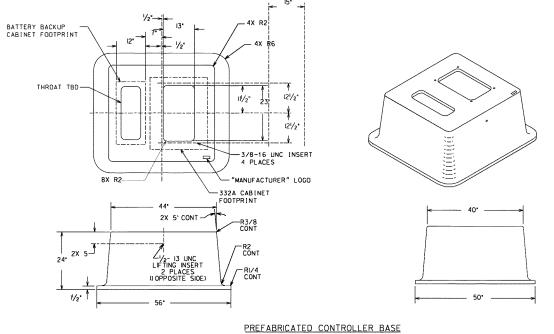


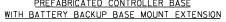
NOTE: MOOEL 332 CONTROLLER CABINETS
WITH BATTERY BACKUPS REQUIRES THREE PAOS

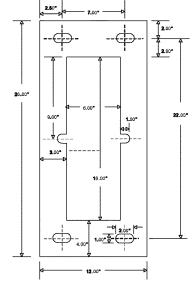
PRE-FORMEO CONCRETE PADS— 24" x 36" (3 EA)

332A CABINET

FOOTPRINT







BATTERY BACKUP BASE MOUNT CABINET ANCHOR BOLT PATTERN DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

TRAFFIC SIGNAL DETAIL

BATTERY BACKUP CABINET FOOTPRINT

A.S. .....

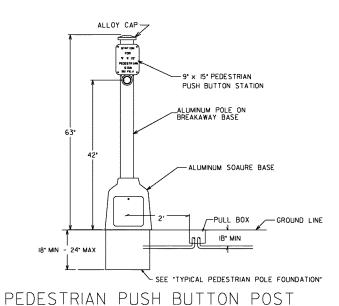
CABINET BASE DETAIL

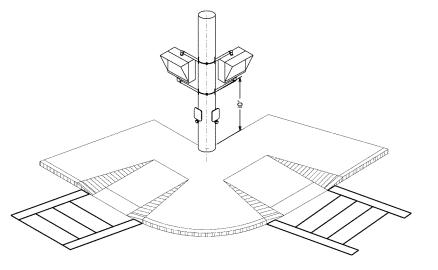
APR IL 2010 TS - 03

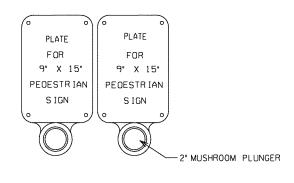
Guidelines For Usage On Metric Projects

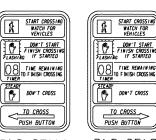
When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: "=25mm, 4"=100mm, and 12" or i"=300mm, All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

STATE COUNTY PROJECT NUMBER SHEET TOTAL NO. SHEETS









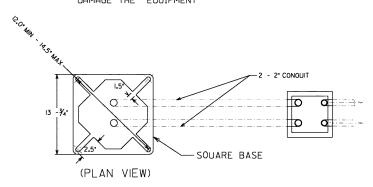
R10-3E(L) 9" X 15"

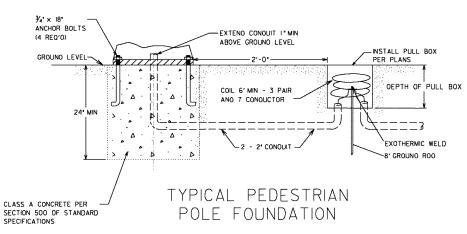
L) R10-3E(R) 5" 9" X 15"

A "PUSH BUTTON STATION" IS THAT PIECE OF EQUIPMENT THAT CONTAINS THE PEOESTRIAN INSTRUCTIONAL SIGN PLATE AND THE PUSH BUTTON

# PEDESTRIAN SIGNAL HEAD ORIENTATION FOR SIDE OF POLE MOUNTING

INSTALL PEOESTRIAN SIGNAL HEAOS SO THAT
VEHICLES MAKING TURNS WILL NOT
OAMAGE THE EOUIPMENT



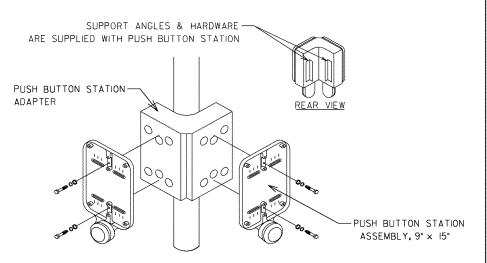


#### Guidelines For Usage On Metric Projects

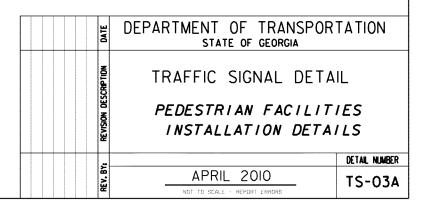
When these details are incorporated into plans and or projects that are being prepored or canstructed in metric units, exact ar precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: "=25mm, 4"=100mm, and 12" or "=300mm, All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

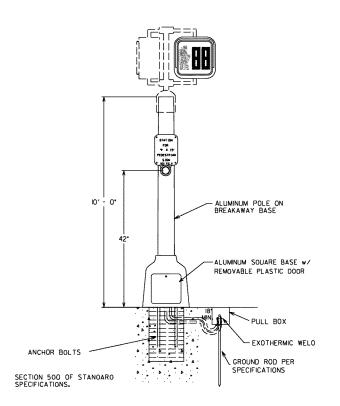
PEDESTRIAN PUSH BUTTON STATION

PEDESTRIAN SIGNS



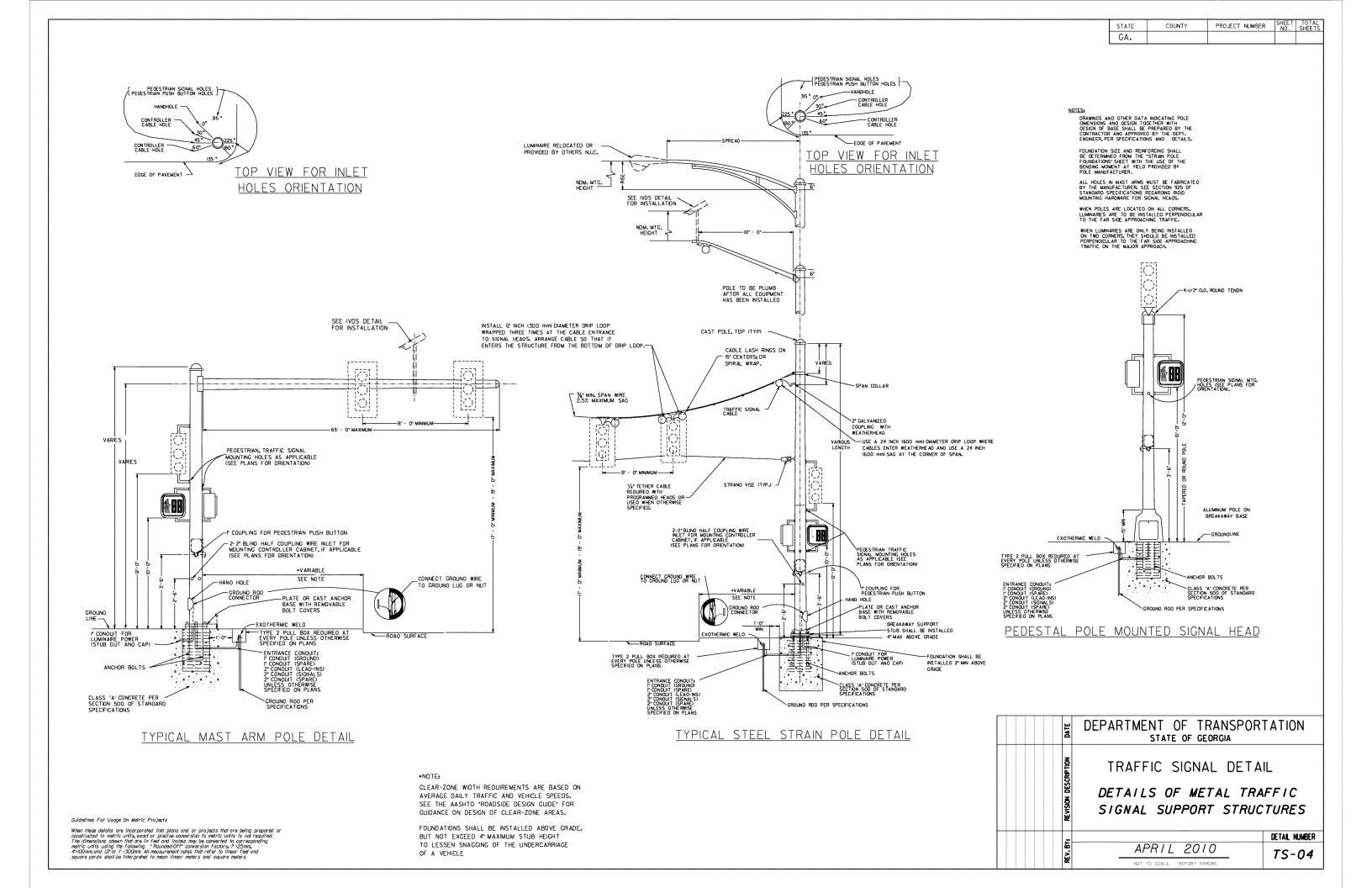
# DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" DIA. PEDESTRIAN POLE



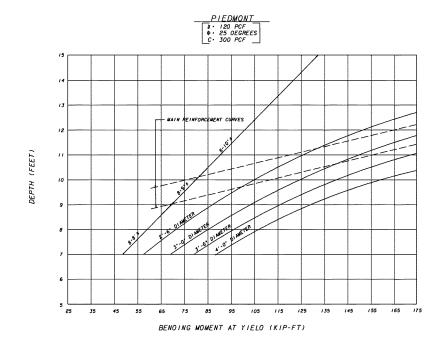


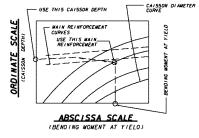
## DETAIL FOR PEDESTRIAN SIGNAL POLES

NOTE:
OETAILS SHOWN IS FOR TOP POST MOUNTING ASSEMBLY ON IO FEET PEOESTRIAN POLE.
A CLAMSHELL MOUNTING ASSEMBLY (NOT SHOWN) MAY BE USED AS APPROVED BY THE DEPARTMENT.
THE CLAMSHELL MOUNTING HAROWARE ASSEMBLY SHALL MEET THE SAME GOOT STANDARDS AS
THE PEDESTRIAN SIGNAL HOUSING IN PAINT AND MATERIAL.



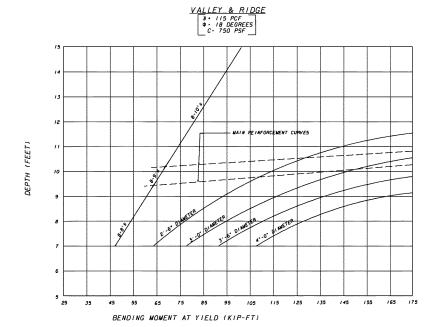
STATE COUNTY PROJECT NUMBER SHEET TOTAL NO. SHEETS

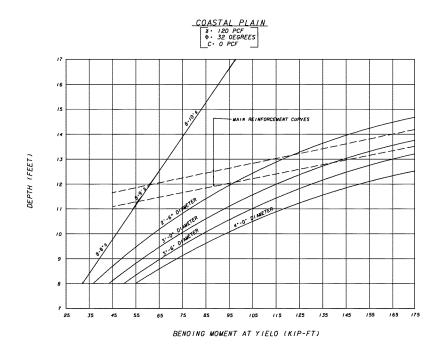


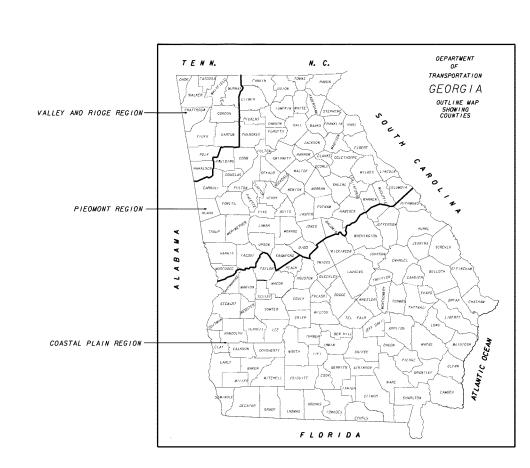


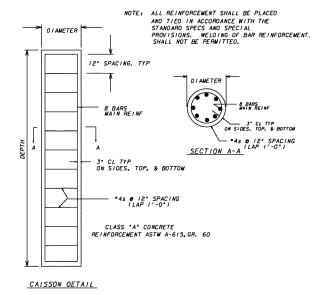
#### PROCEDURE TO FIND FOOTING SIZE

- I. DETERMINE "BENDING MOMENT AT YIELD" FROM APPROVED SHOP DRAWINGS
- 2. SELECT DIAMETER OF CAISSON.
- 3. READ 'BENDING MOMENT AT YIELD'
  ON ABSCISSA SCALE. PROJECT A
  VERTICAL LINE UPWARD UNTIL THE
  OESIREO 'CAISSON OIAMETER CURVE'
  IS INTERSECTED. TURN 90 OEGREES AND
  PROJECT A HORIZONTAL LINE UNTIL THE
  OROINATE SCALE IS INTERSECTED.
- 4. REAO THE REQUIRED 'CAISSON OEPTH' FROM THE INTERSECTION POINT ON THE ORGINATE SCALE OEPTH SHALL BE INTERPOLATED TO THE NEAREST 3 INCH INCREMENT.
- 5. REAO THE REQUIREO 'MAIN REINFORCEMENT SIZE' FROM THE INTERSECTION POINT ON THE CAISSON OIAMETER CURVE.







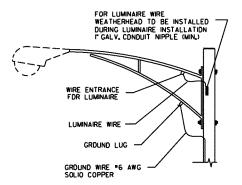


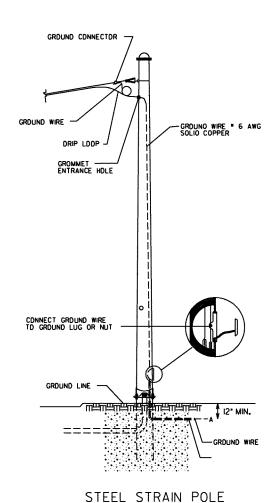
| DATE        | DEPARTMENT OF TRANSPOR                   | RTATION       |
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| SCRPTION    | TRAFFIC SIGNAL DET                       | AIL           |
| REVISION DE | DETAILS OF STRAIN<br>AND MAST ARM FOUNDA |               |
|             |  | DETAIL NUMBER |
| .v. By      | APRIL 2010                               | TS-06         |
| ك           |  | 1.500         |

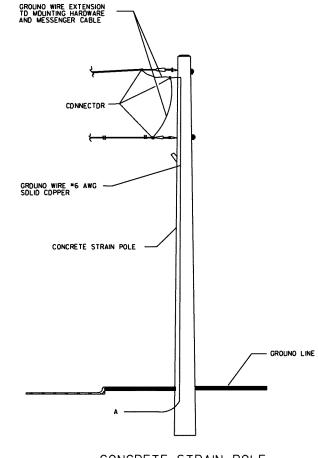
NOT TO SCALE - REPORT ERRORS

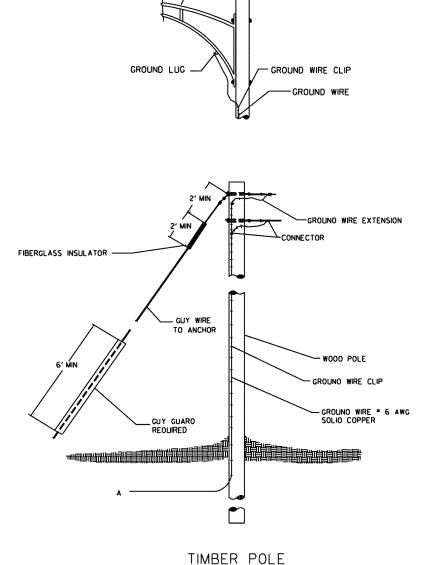




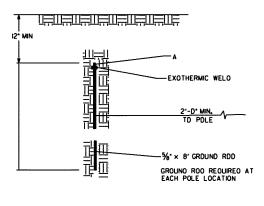








- LUMINAIRE ARM



GROUNDING DETAIL

CONCRETE STRAIN POLE

OVERHEAD SIGN GROUNDING SYSTEM SHALL CONFORM TO SECTION 647

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA TRAFFIC SIGNAL DETAIL GROUNDING DETAILS FOR TRAFFIC SIGNAL SUPPORT STRUCTURES I DETAIL NUMBER APRIL 2010

TS-07

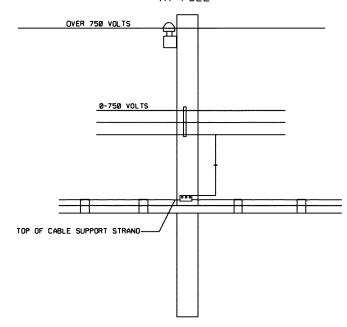
Guidelines For Usage On Metric Prajects

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STATE COUNTY PROJECT NUMBER NO. SHEET SHEETS

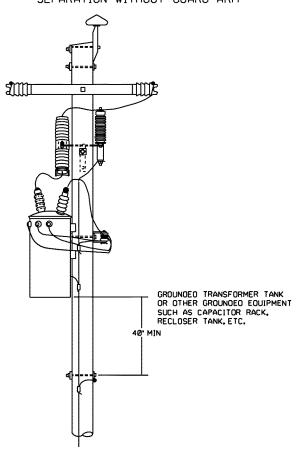
#### TYPICAL OETAIL "A"

TYPICAL POWER SEPARATION AT POLE



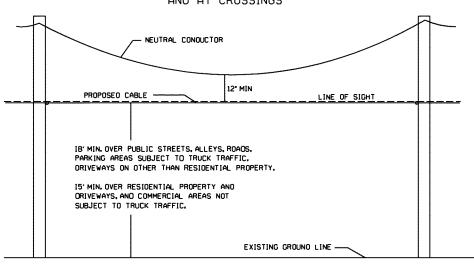
#### TYPICAL OETAIL "O"

TYPICAL TRANSFORMER AND POWER RISER SEPARATION WITHOUT GUARO ARM



#### TYPICAL OETAIL "B"

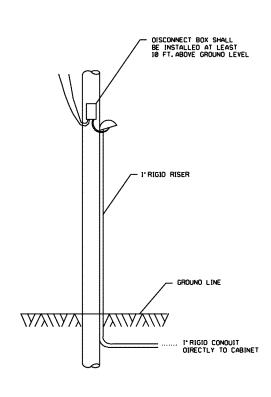
#### SEPARATION REOUIREMENTS FOR MIO-SPAN ANO AT CROSSINGS



THE VERTICAL SEPARATION FROM NEUTRAL CONOUCTORS SHALL BE INCREASED SO THAT THE LOWEST POINT OF THE NEUTRAL CONOUCTOR (IN THE SPAN OR AT THE CROSSING) WILL BE AT LEAST 12 INCHES ABOVE THE COMMUNICATION CABLE ATTACHMENT LEVEL (LINE OF SIGHT) AS ILLUSTRATEO ABOVE.

#### TYPICAL OETAIL "E"

TYPICAL OISCONNECT BOX INSTALLATION

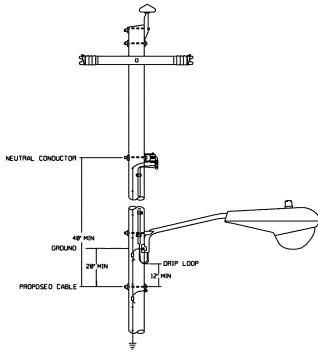


#### Guidelines For Usoge On Metric Projects

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#### TYPICAL OETAIL "C"

STREET LIGHT BRACKET SEPARATION NOTE: SEE TABLE BELOW



## VERTICAL CLEARANCES AT THE POLE FOR SPAN WIRES AND BRACKETS FOR STREET LIGHTS (RULE 238C)

|  |                         | CLEARANC<br>IF NOT |              | ELY GROUNOEO              |
|--|-------------------------|--------------------|--------------|---------------------------|
| TYPE OF CLEARANCE  | IF EFFECTIVELY GROUNOEO |                    | OVER<br>150V | FOR TROLLEY<br>CONOUCTORS |
| ABOVE COMMUNICATION<br>CROSS ARMS                                    | 20 (A)                  | 2Ø (A)             | 20 (A)       | 20 (A)                    |
| BELOW COMMUNICATION<br>CROSS ARMS                                    | 24                      | 24                 | 40           | 24                        |
| ABOVE COMMUNICATION CABLES   | 4                       | 20 (A)             | 20 (A)       | 12                        |
| BELOW COMMUNICATION<br>CABLES  | 4                       | 20                 | 40           | 12                        |
| FROM COMMUNICATION<br>TERMINAL BOXES                                 | 4                       | 20 (A)             | 20 (A)       | 12 (B)                    |
| FROM COMMUNICATION BRACKETS<br>BRIOLE WIRE RINGS,<br>ANO ORIVE HOOKS | 4                       | 16 (A)             | 16 (A)       | 4                         |

NOTES A.MAY BE REDUCED TO 12 IN.FOR WIRES OR PARTS OF BRACKETS 40 IN.OR MORE FROM SURFACE OF POLE B. IF OBTAINABLE IF NOT, MAXIMUM OBTAINABLE

| DATE                 | DEPARTMENT OF TRANSPOR                  | TATION        |
|----------------------|---|---------------|
| REVISION DESCRIPTION | TRAFFIC SIGNAL DETA                     |               |
|                      |   | DETAIL NUMBER |
| REV. BY:             | APRIL 2010 NOT TO SCALE - REPORT ERRORS | TS-08         |

#### ESPCP GENERAL NOTES

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

#### PLAN ALTERATIONS

THIS EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPCP) IS PROVIDED BY THE ENGINEER. IT ADDRESSES THE STAGED CONSTRUCTION OF THE PROJECT ON THE BASIS
OF COMMON CONSTRUCTION METHODS AND TECHNIQUES. IF THE CONTRACTOR ELECTS TO ALTER THE STAGED CONSTRUCTION FROM THAT SHOWN IN THE PLANS OR UTILIZE CONSTRUCTION TECHNIQUES THAT RENDER THIS PLAN INEFFECTIVE. THE CONTRACTOR SHALL REVISE THE PLANS IN ACCORDANCE TO SPECIAL PROVISION 161 OF THE CONTRACT.

THE CONTRACTOR, THE CERTIFIED DESIGN PROFESSIONAL, AND THE WECS SHALL CAREFULLY EVALUATE THIS PLAN PRIOR TO COMENCING LAND-DISTURDS STALL

AMERICANTS/REVISIONS TO THE ESAPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS

WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

ADDITIONAL BMP'S MAY BE ADDED PER SPECIAL PROVISION 161 - CONTROL OF SOIL FROSION AND SEDIMENTATION

#### VEGETATION AND PLANTING SCHEDULE

ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES INCLUDING PLANT SPECIES. PLANTING DATES. SEEDING, FERTILIZING, LINING, AND MULCHING FOR THIS PROJECT CAN BE FOUND IN SECTION 700 OF THE CURRENT EDITION OF THE DEPARTMENT'S STANDARD SPECIFICATIONS (OR SPECIAL PROVISIONS) AND OTHER APPLICABLE CONTRACT DOCUMENTS. OR LANDSCAPING PLANS.

THE SEEDING TABLE BELOW SHOULD BE USED IN DETENINING GRASS SPECIES DEPENDENT ON PLANTING DATES.

APPLY FERTILIZER AS FOLLOWS:
AGRICULTURAL LINE - UNIFORMLY SPREAD AGRICULTURAL LINE ON THE GROUND AT THE APPROXIMATE
RATE DETERMINED BY THE LABORATORY SOIL TEST.

FERTILIZER MIXED GRADE - UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1, 200 LBS/ACRE. IF USING HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE AS THE STANDARD FERTILIZER.

SELECT FERTILIZER MIXED GRADE SUCH AS 10-10-10, 6-12-12, 5-10-15, OR OTHER ANALYSIS WITHIN THE

FOLLOWING LIMITS: NITROGEN 5 TO 10 PERCENT

PHOSPHORUS IO TO IS PERCENT
POTASSIUM IO TO IS PERCENT
IF USING MIXED GRADE FERTILIZER FOR HYDROSEEDING, ENSURE IT HAS THE FOLLOWING ANALYSIS: NITROGEN 5 TO 19 PERCENT

#### SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING THE CONSTRUCTION SCHEDULE FOR THE PROJECT. THE CONSTRUCTION SCHEDULE FOR THIS PROJECT SHALL BE SUBMITTED AFTER THE PROJECT IS AWARDED. A COPY OF THE CONSTRUCTION SCHEDULE SHALL BE MAINTAINED AT THE PROJECT CONTRACTOR OF THE CONSTRUCTION SCHEDULE SHALL BE MAINTAINED AT THE PROJECT CONTRACTOR OF THE CONSTRUCTION SCHEDULE SHALL BE MAINTAINED AT THE PROJECT CONTRACTOR OF THE CONSTRUCTION SCHEDULE SHALL BE MAINTAINED AT THE PROJECT CONTRACTOR OF THE CONT

- I. INSTALL STABILIZED CONSTRUCTION EXIT, IF REQUIRED. 2. INSTALL SILT FENCE(S) ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
- 3. PREPARE TEMPORARY PARKING AND STORAGE AREA AND INSTALL TEMPORARY SECURITY FENCE, IF REQUIRED.
  4. INSTALL INLET PROTECTION MEASURES ON THE EXISTING
- DRAINAGE STRUCTURES AS INDICATED.
- 5. BEGIN DEMOLITION OF EXISTING FEATURES AS NOTED IN PLANS.

- 1. BEGIN CLEARING AND GRUBBING. 2. TEMPORARY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.

- I. PERMANENTLY STABILIZE ALL DISTURBED AREAS.
- 7. TEMPARENT TO THE OFFICE OF THE STATE OF T

NOTE: THE CONTRACTOR WAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF PRECEDING BMP'S HAVE BEEN COMPLETELY INSTALLED.

#### TEMPORARY MULCHING

EPD GENERAL PERMIT GAR 100002 STATES THAT ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. HOWEVER IN SPECIAL CASES, THE PROJECT ENGINEER MAY REQUIRE THE CONTRACTOR TO PERFORM STABILIZATION MORE OFTEN THAN 14 DAYS.

#### PETROLEUM STORAGE, SPILLS, AND LEAKS

THESE PLANS EXPRESSLY DELEGATE THE RESPONSIBILITY OF PROPER ON-SITE HAZARDOUS MATERIAL MANAGEMENT TO THE CONTRACTOR. THE CONTRACTOR SHALL AT A MINIMUM PROVIDE AN ACTION PLAN AND KEEP THE NECESSARY MATERIALS ON SITE FOR THE CAPTURE. CLEAN UP. AND DISPOSAL OF ANY PETROLEUM PRODUCT, OR OTHER HAZARDOUS MATERIAL, LEAKS OR SPILLS ASSOCIATED WITH THE SERVICING, REFUELING OR OPERATION OF ANY EQUIPMENT UTILIZED AT THE SITE. A COPY OF THE ACTION PLAN SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND MAINTAINED ON THE PROJECT SITE. ALL PERSONNEL OPERATING OR SERVICING EQUIPMENT SHALL BE FAMILIAR WITH THE ACTION PLAN. THE CONTRACTOR SHALL NOT PARK, REFUEL, OR MAINTAIN EQUIPMENT WITHIN STREAM BUFFERS.

IF THE CONTRACTOR ELECTS TO STORE PETROLEUM PRODUCTS ON SITE, THE CONTRACTOR SHALL PREPARE AN ESPCP ADDENDUM THAT ADDRESSES THE ADDITIONAL BMPS NEEDED FOR ONSITE STORAGE AND SPILL PREVENTION FOR PETROLEUM PRODUCTS. THIS PLAN SHALL BE PREPARED BY A CETIFIED DESIGN PROFESSIONAL AS REQUIRED BY GARIOODOZ FOR INCLUSION WITH THESE PLANS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO STANDARD SPECIFICATION 107-LEGAL REGULATIONS AND RESPONSIBILITY TO THE PUBLIC FOR ADDITIONAL REQUIREMENTS.

#### SOIL SERIES INFORMATION

THE FOLLOWING IS A SUMMARY OF THE SOILS THAT ARE EXPECTED TO BE FOUND ON THE PROJECT SITE:

Cecul-Urban land complex, 2 to 10 percent slopes

#### POST-CONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

ALL PERMANENT POST-CONSTRUCTION BMP'S ARE SHOWN IN THE CONSTRUCTION PLANS AND IN THE ESPCP PLAN. THE POST-CONSTRUCTION BMP'S FOR THIS PROJECT CONSIST OF VEGETATION, WHICH WILL PROVIDE PERMANENT STABILIZATION OF THE SITE AND PREVENT ABNORMAL TRANSPORTATION OF SEDIMENT AND POLLUTANTS INTO RECEIVING WATERS.

#### SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

SILT FENCE SHOULD NEVER BE RUN CONTINUOUSLY. THE SILT FENCE SHOULD TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMMATER TO FLOW THROUGH THE SILT FENCE. THIS TECHNIOUE IS CALLED USING J HOOKS (OR SPURS). THE J HOOK SHALL BE UTILIZED ON ALL SILT FENCES THAT ARE LOCATED AROUND THE PERIMETER OF THE PROJECT AND ALONG THE TOE OF EMBANKWENTS OR SLOPES. THE J HOOKS SHALL BE SPACED IN ACCORDANCE WITH GOOT CONSTRUCTION DETAIL D-24C. THE MAXIMUM J-HOOK SPACING IS REACHED WHEN THE TOP OF THE J HOOK IS AT THE SAME ELEVATION AS THE BOTTOM OF THE IMMEDIATELY UPGRADIENT J HOOK. J HOOKS SHALL BE PAID FOR AS SILT FENCE ITEMS PER LINEAR FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN COST OF INSTALLING AND MAINTAINING THE SILT FENCE.

#### SITE STABILIZATION AND BMP MAINTENANCE MEASURES

SEE THE DEPARTMENT'S STANDARD SPECIFICATIONS (OR SPECIAL PROVISIONS 161. 163. 165. 700. 711. AND OTHER CONTRACT DOCUMENTS FOR STABILIZATION

#### WASTE DISPOSAL

WHERE ATTAINABLE, LOCATE WASTE COLLECTION AREAS, DUMPSTERS, TRASH CANS AND PORTABLE TOILETS AT LEAST 50 FEET AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. SECONDARY CONTAINMENT SHALL BE PROVIDED AROUND LIQUID WASTE COLLECTION AREAS TO MINIMIZE THE LIKELIHOOD OF CONTAINATED DISCHARGES. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE STORAGE AND DISPOSAL REGULATION AND OBTAIN ALL NECESSARY PERMITS. WASTE NATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

#### OTHER CONTROLS

THE CONTRACTOR SHALL FOLLOW THIS ESPCP AND ENSURE AND DEMONSTRATE COMPLIANCE
WITH ALL APPLICABLE STATE AND/OR LOCAL REGULATIONS FOR WASTE DISPOSAL. SANITARY

THE CONTRACTOR SHALL CONTROL DUST FROM THE SITE IN ACCORDANCE WITH SECTION 161 OF THE CURRENT EDITION OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

#### INSPECTIONS

THE DESIGN PROFESSIONAL WHO PREPARED THE ESAPC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPS AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV. A. 5. WITHIN 7 DAYS AFTER INSTALLATION.

EACH DAY. AS SPECIFIED IN THE CURRENT GARIOOOO2 PERMIT. THE WORKSITE EROSION CONTROL SUPERVISOR (WECS) OR CERTIFIED PERSONNEL SHALL

- A. INSPECT ALL AREAS WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT B. INSPECT ALL LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING

AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER. AS SPECIFIED IN THE CURRENT GARIOOOO2 PERMIT, THE WORKSITE EROSION CONTROL SUPERVISOR (WECS) OR CERTIFIED PERSONNEL SHALL INSPECT THE FOLLOWING:

- A. DISTURBED AREAS OF THE CONSTRUCTION SITE B. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION C. STRUCTURAL CONTROL MEASURES (BMPS)
- THE CONTRACTOR IS TO CALL THE ENGINEER WITHIN 7 DAYS OF IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN TO SCHEDULE
  AN INSPECTION BY THE ENGINEER. THE ENGINEER SHALL INSPECT THE INSTALLATION OF
  THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BUPS WITHIN THE INTITAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BURS WITHIN SEVEN (7) DAYS OF INSTALLATION OVER THE ENTIRE INFRASTRUCTURE PROJECT. ALTERNATIVELY, THE ENGINEER SHALL INSPECT THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BURS FOR THE INITIAL SEGMENT, AS DEFINED BY PART IV. A. 5. OF THE CURRENT GARIOO002 PERMIT, WITHIN SEVEN (7) DAYS OF INSTALLATION AND INSPECT ALL SEDIMENT BASINS WITHIN THE ENTIRE LINEAR INFRASTRUCTURE PROJECT WITHIN SEVEN (7) DAYS OF INSTALLATION.

THE ENGINEER SHALL REPORT THE RESULTS TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS, AND THE PERMITTEE WUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT, UNLESS ON-SITE WEATHER CONDITIONS ARE SUCH THAT MORE TIME IS REQUIRED.

AT LEAST ONCE PER MONTH THE WECS OR CERTIFIED PERSONNEL SHALL INSPECT THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

#### NONSTORMWATER DISCHARGES

NON-STORM WATER DISCHARGES DEFINED IN PART III.A.2 OF THE NPDES PERMIT WILL BE IDENTIFIED AFTER CONSTRUCTION HAS COMMENCED. THESE DISCHARGES SHALL BE SUBJECT TO THE SAME REQUIREMENTS AS STORM WATER DISCHARGES REQUIRED BY THE GEORGIA EROSION AND SEDIMENTATION CONTROL ACT, THE NPDES REQUIRED BY THE GEORGIA ERUSTON AND SEDIMENTATION CONTROL ACT, THE MPDES PERMIT, THE CLEAN WATER ACT, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, DEPARTMENT STANDARDS, AND OTHER CONTRACT DOCUMENTS. THE NPDES DOES NOT AUTHORIZE THE DISCHARGE OF SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING OR THE DISCHARGE OF WASTEWATER FROM WASHOUT AND CLEANOUT OF CONTAINERS FOR STUCCO, PAINT, CONCRETE-FORM RELEASE OILS. CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.

#### DE-WATERING AND PUMPING ACTIVITIES

ANY PUMPED DISCHARGE FROM AN EXCAVATION OR DISTURBED AREA SHALL BE ROUTED THROUGH AN APPROPRIATELY SIZED SEDIMENT BASIN, SILT FILTER BAG, OR SHALL BE TREATED EQUIVALENTLY WITH SUITABLE BMP'S. THE CONTRACTOR SHALL ENSURE THE POST BMP TREATED DISCHARGE IS SHEET FLOWING, FAILURE TO CREATE SHEET FLOW WILL OBLIGATE THE CONTRACTOR TO PERFORM WATER QUALITY SAMPLING OF PUMPED DISCHARGES. THE CONTRACTOR SHALL PREPARE SAMPLING PLANS IN ACCORDANCE WITH THE CURRENT GARIOOOO2 NPDES PERMIT BY UTILIZING A CERTIFIED DESIGN PROFESSIONAL. NO SEPARATE PAYMENT WILL BE MADE FOR WATER QUALITY SAMPLING OF PUMP DISCHARGES.

#### READY MIX CHUTE WASH DOWN

THE WASHING OF READY-MIX CONCRETE DRUMS AND DUMP TRUCK BODIES USED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE IS PROHIBITED ON THIS SITE.

IN ACCORDANCE WITH STANDARD SPECIFICATION 107: LEGAL REGULATIONS AND RESPONSIBILITY TO THE PUBLIC, ONLY THE DISCHARGE CHUTE UTILIZED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE MAY BE RINSED FREE OF FRESH CONCRETE REMAINS. THE CONTRACTOR SHALL EXCAVATE A PIT OUTSIDE OF STATE WATER BUFFERS, AT LEAST 25 FEET FROM ANY STORM DRAIN AND OUTSIDE OF THE TRAVELLED WAY, INCLUDING SHOULDERS, FOR A WASH-DOWN PIT. THE PIT SHALL BE LARGE ENOUGH TO STORE ALL WASH-DOWN WATER WITHOUT OVERTOPPING. IMMEDIATELY AFTER THE WASH-DOWN OPERATIONS ARE COMPLETED AND AFTER THE WASH-DOWN WATER HAS SOAKED INTO THE GROUND. THE PIT SHALL BE FILLED IN, AND THE GROUND ABOVE IT SHALL BE GRADED TO MATCH THE ELEVATION OF THE SURROUNDING AREAS. ALTERNATE WASH-DOWN PLANS MUST BE APPROVED BY THE PROJECT ENGINEER.

WASH-DOWN PLANS DESCRIBE PROCEDURES THAT PREVENT WASH-DOWN WATER FROM ENTERING STREAMS AND RIVERS. NEVER DISPOSE OF WASH-DOWN WATER DOWN A STORM DRAIN. ESTABLISH A WASH-DOWN PIT THAT INCLUDES THE FOLLOWING: (1) A LOCATION AWAY FROM ANY STORM DRAIN. STREAM, OR RIVER, (2) ACCESS TO THE VEHICLE BEING USED FOR WASH DOWN. (3) SUFFICIENT VOLUME FOR WASH-DOWN WATER, AND (4) PERMISSION TO USE THE AREA FOR WASH DOWN.

ON SITES WHERE PERMISSION OR ACCESS TO EXCAVATE A WASH-DOWN PIT IS UNAVAILABLE, THE CONTRACTOR MAY HAVE TO WASH-DOWN INTO A SEALABLE 55-GALLON DRUM OR OTHER SUITABLE CONTAINER AND THEN TRANSPORT THE CONTAINER TO A PROPER DISPOSAL SITE, FOR ADDITIONAL INFORMATION, REFER TO THE GEORGIA SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM'S "A GUIDE FOR READY MIX CHUTE/HOPPER WASH-DOWN."



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| REVISION DATES | N.           | <b>ESPCP GENERAL N</b><br>CLARKSTON PED ENHAN<br>INDIAN CREEK RD. AT | NCEMENTS    |
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| 17 |      | II:08:40 AM GPLOT-V8<br>gplotborde       | er-V81-P0. tbl          | EC-L(sheefs 1-7).dgn   |                                      |
|----|------|--|-------------------------|--|--------------------------------------|
|    | CODE | PRACTICE<br>STD OR DETAIL<br>SPEC. SECT. | DETAIL                  | DESCRIPTION  |                                      |
|    |      | ORANGE<br>BARRIER<br>FENCE               |                         | ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.   |                                      |
|    |      | •  | INE CODE  BARRIER FENCE |  |                                      |
|    |      | ENVIRONMENTALLY<br>SENSITIVE AREA        |                         | AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAS INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS.  |                                      |
|    | ESA  |  | INE CODE                | IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.   |                                      |
|    | Bf   | BUFFER ZONE                              | SYMBOL  Bf              | A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS.  WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.  |                                      |
|    | Ds I | MULCH<br>SECTION 163                     | SYMBOL Ds I             | THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING.  MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER.  THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54. |                                      |
|    | Ds2  | TEMPORARY<br>GRASSING<br>SECTION 163,700 | SYMBOL<br>Ds2           | THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST.  TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS.  THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.   | NOTE:  1. DO NO 2. FOR A REFER CONTR |

| CODE  | PRACTICE<br>STD OR DETAIL DETAIL<br>SPEC. SECT.                            | DESCRIPTION   |
|-------|--|---|
| Ds3   | PERMANENT GRASSING  SECTION 700  SYMBOL  DS3                               | THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON.  PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION.  THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.   |
| Ds4   | CONSTRUCTION DETAIL D-54 SECTION 700, 890  PATTERN  Ds4  Ds4               | THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION.  SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.  THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.  |
| F1-Co | FLOCCULANTS COAGULANTS SECTION 163, 700, 895  SYMBOL  FI-CO POLYACRYLAMIDE | FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION.  ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPS WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPS!  FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE. |
| Sb    | STREAMBANK<br>STABILIZATION  SECTION 702  PATTERN  Sb                      | STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS.  STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.  |

- EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- IONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT N GEORGIA".

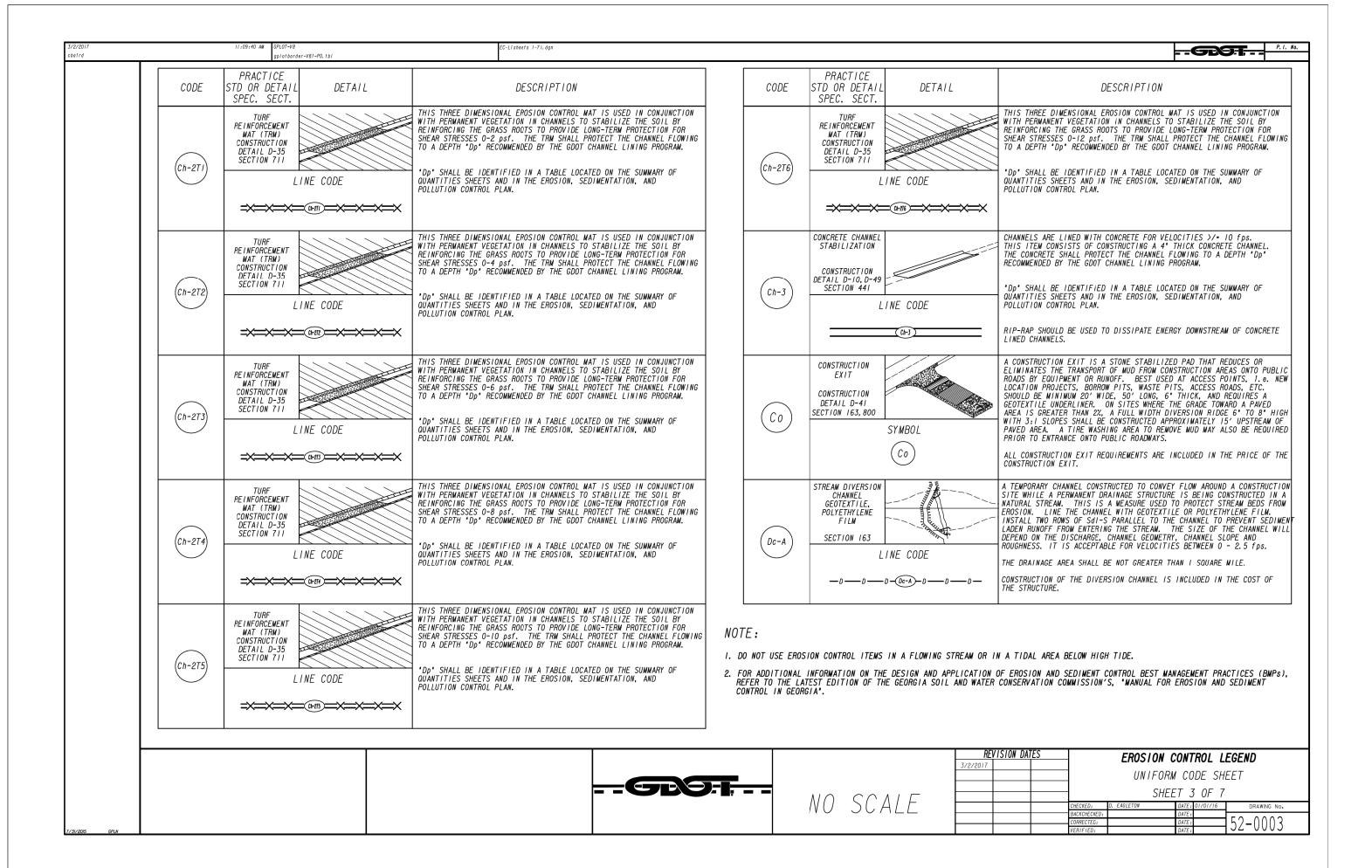


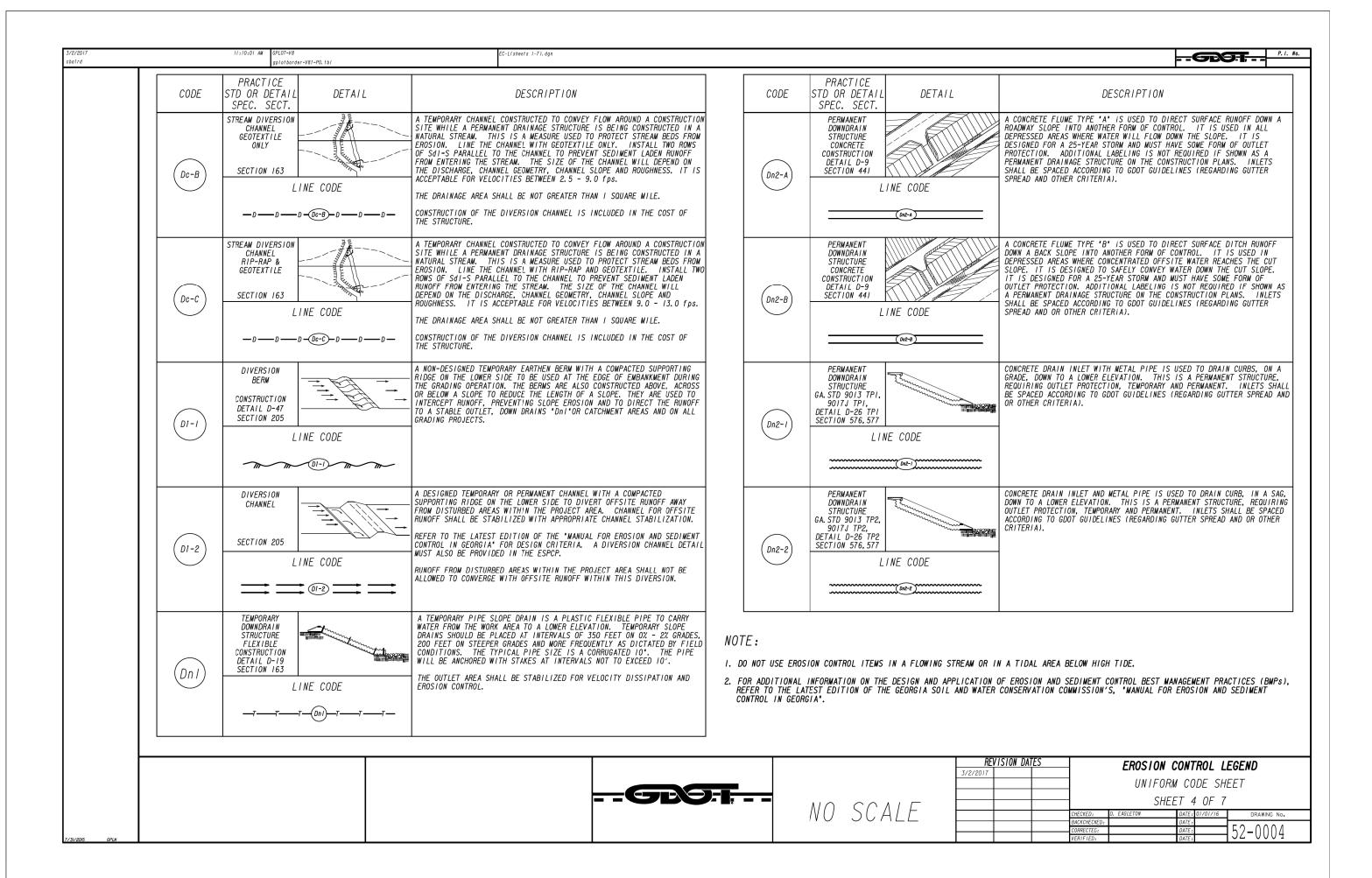
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EROSION CONTROL LEGEND UNIFORM CODE SHEET SHEET I OF 7

--GB9<del>-1,--</del>

| SOUR STYLE CEFFEL  SOUR STYLE CEFFE  SOUR ST | CODE    | PRACTICE<br>STD OR DETAIL  | DETAIL | EC-L(sheets 1-7).dgn  DESCRIPTION  | Conv   | PRACTICE<br>STD OR DETAIL DE  | ETALI            | DESCRIPTION  |
|--|---------|--|--------|--|--|---|------------------|--|
| PARTICIPATION OF STANDING CONTROL AND SOLID CONTROL PRODUCTION OF STANDING CONTROL PRODUCTION |         | SPEC. SECT.  SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716  PATTE | ADD.   | SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS.  SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP).  SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS.  NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE                              |  | SPEC. SECT.  STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603  SYMBOL |                  | STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTIL UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMP'S WITHIN THE CLEAR ZONE.  SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMP'S FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS CONTINUOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL |
| FAMIL  OPER DAY  | Тас     | SECTION 163.<br>700, 895   |        | MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH.  TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT  | (Ch-1  | SECTION 700  LINE CODE  | <u>.</u>         | ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE<br>DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRA<br>ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.  |
| FILTER SOCK CHECK DAW CONSTRUCTION CONSTRUCTION DETAIL D-52 SCCTION 163  SYMBOL  BALED STRAW CHECK DAW CONSTRUCTION DETAIL D-52 SCCTION 163  SYMBOL  BALED STRAW CHECK DAW CONSTRUCTION DETAIL D-52 SCCTION 163  SYMBOL  BALED STRAW CHECK DAW CONSTRUCTION DETAIL D-52 SCCTION 163  SYMBOL  SYMBOL  BALED STRAW CHECK DAW CONSTRUCTION DETAIL D-52 SCCTION 163  SYMBOL  SYMBOL  SYMBOL  BALED STRAW CHECK DAW CHECK DAW CHECK DAW CONSTRUCTION DETAIL D-52 SCCTION 163  SYMBOL  SYMBOL  SYMBOL  BALED STRAW CHECK DAW CHE | Cd-F    | FABRIC CHECK DAM  CONSTRUCTION DETAIL D-24D SECTION 171  SYMBO               |        | POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS.  THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE | (Ch-2F   | STABILIZATION RIP-RAP, TYPE I  CONSTRUCTION DETAIL D-49 SECTION 603  LINE CODE                      |                  | THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.  *Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND  |
| WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALED STRAW CHECK DAM  CONSTRUCTION DETAIL D-52 SECTION 163  SYMBOL  WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALES SHOULD BE PLACED IN A TREAD OF TWINE. BALES. THE DOWNSTREAM ROW OF BALES SHOULD BE PLACED IN A TREAD OF TWINE. BALES. THE DOWNSTREAM OF OF BALE SHOULD BE PLACED IN A TREAD OF TWINE. BALES. THE DOWNSTREAM OF BALE SHOULD BE PLACED IN A TREAD OF TWINE. BALES. THE DOWNSTREAM OF BALE SHOULD BE PLACED IN A TREAD OF TWINE. BALES. THE DOWNSTREAM OF IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.  1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.  2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMF WITHOUT A SEDIMENT BASIN. A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.  WIRE OR NYLON INSTEAD OF TWINE. BALES. THE DOWNSTREAM ON OF BALE SHOULD BE PLACED IN ROWS WITH BALE SHOULD BE PLACED IN ROWS WITH BALE SHOULD BE PLACED IN ROWS WITH BALE SHOLD BE PLACED IN ROWS WITH BALE SHOLD BE PLACED IN ROWS WITH BALE SHOLD BE PLACED IN A ROWS WITH BALE SHOLD BE | (Cd-Fs) | FILTER SOCK CHECK DAM  CONSTRUCTION DETAIL D-52 SECTION 163  SYMBO           |        | BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS.  REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR MATERIAL SPECIFICATIONS.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE  |  | STABILIZATION RIP-RAP, TYPE 3  CONSTRUCTION DETAIL D-49 SECTION 603  LINE CODE                      |                  | THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.  *Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND  |
|  | (Cd-Hb) | CHECK DAM  CONSTRUCTION DETAIL D-52 SECTION 163  SYMBO                       |        | WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE  | NOTE:  1. DO NOT USE  2. FOR ADDITION REFER TO THE | NAL INFORMATION ON THE DESIGN A<br>E LATEST EDITION OF THE GEORGIA                                  | ND APPLICATION O | F EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP  |





|        | II:10:19 AW GPLOT-V8 gplotborder-V81-P0.tbl   |   | EC-L(sheefs 1-7).dgn  |   |                           |   |                               | GBS <del>T</del>  |
|--------|---|---|---|---|---------------------------|---|-------------------------------|---|
| CODE   | PRACTICE<br>STD OR DETAIL<br>SPEC. SECT.  | DETAIL  | DESCRIPTION   |   | CODE                      | PRACTICE<br>STD OR DETAIL<br>SPEC. SECT.  | DETAIL                        | DESCRIPTION   |
| (Fr)   | FILTER RING  CONSTRUCTION DETAIL D-46 SECTION 163   | AND POST-<br>HELPS PRI<br>STABILIZA<br>REFER TO   | ARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE<br>-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOC<br>EVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT<br>ATION OF THE DISTURBED AREA.<br>THE LATEST EDITION OF THE "MANUAL FOR EROSION AND S<br>IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.  | TY AND  | Rt-B                      | RETROFITTING SLOTTED BOARD DAM  CONSTRUCTION DETAIL D-45 SECTION 163                |                               | A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AN BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIM FILTER.  PERMANENT STORMWATER DETENTION POND OUTLET:  -DRAINAGE AREA UP TO 100 ACRES  -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA   |
|        | SYMB0L<br>Fr  |   |   |   |                           |   | SYMBOL<br>(R1-B)              | ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTL WITH DRAINAGE AREA LESS THAN 30 ACRES  REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SE CONTROL IN GEORGIA' FOR DESIGN CRITERIA.  |
| (Rd)   | ROCK FILTER DAM  CONSTRUCTION DETAIL D-43 SECTION 163, 603                                  | of 7 stone of the day | TER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS WAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDER USED WHEN PLACING ROCK FILTER DAMS.  | INER  | Rt-Sg1                    | RETROFITTING SILT CONTROL GATES  CONSTRUCTION DETAIL D-20 SECTION 163               | FRONT VIEW                    | A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FIFABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJEC   |
| (Nd)   | SYMBOL Rd   |   | TER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARG<br>EAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAS.   | NG  | Rt-Sg3                    | (Rt-Sg1)  | SYMBOL (R1-Sg2) (R1-Sg3)      | DO NOT USE SILT GATES IN STATE WATERS.  Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWA   |
| (Rd-B) | STONE FILTER BERM  CONSTRUCTION DETAIL D-50 SECTION 163, 603                                | A LINEAR FACED WITS SHALL BE STONE FILL AND/OR SI PERIMETE! DEFINED ( A ROCK OU   | LTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DA APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDER USED WHEN PLACING STONE FILTER BERMS.  LTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FIGURED TO A COMMON LOW AREA WHERE RESILT FENCE ALONE MAY BE INSUFFICIENT, THERE IS NOT CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTUTET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE. | P-RAP<br>INER<br>OW                               | (Sd1-NS)                  |   | NE CODE                       | SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SH<br>FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/<br>FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL<br>NOT BE INSTALLED ACROSS CONCENTRATED FLOW.<br>TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY<br>SENSITIVE AREAS (ESAS) OR IN AREAS WITH FILLS LESS THAN 10'.<br>IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS<br>ALONG THE RIGHT-OF-WAY LINE.   |
| Rp     | RIP-RAP  SECTION 603  PATTERN   | RIP-RAP<br>SLOPES AI<br>OF A GEO:<br>INDICATEL<br>RIP-RAP I<br>RIGHT-OF-<br>PROVIDED<br>ADDITION  | IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FI<br>NO BRIDGE END ROLLS. RIP-RAP TYPE-I SHOULD BE PLACE<br>EXTILE UNDERLINER AT A MINIMUM 24' THICKNESS OR AS<br>DON THE PLANS.<br>MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHI<br>WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD<br>AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION<br>AL INFORMATION ON USING RIP-RAP AT OUTFALLS.  | ON TOP<br>THE<br>BE                               | (Sd1-S)                   | SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171 | NE CODE  -SII-S - c - c - c - | SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SH<br>FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/<br>FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL<br>NOT BE INSTALLED ACROSS CONCENTRATED FLOW.<br>TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSIT<br>AREAS (ESAS) OR IN AREAS WITH FILLS 10' AND GREATER.<br>ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAS) SHALL BE PROTECTED<br>A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT.<br>SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS.<br>IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS<br>ALONG THE RIGHT-OF-WAY LINE. |
| Rt-P   | RETROFITTING PERFORATED HALF-ROUND PIPE  CONSTRUCTION DETAIL D-44 SECTION 163  SYMBOL  RI-P | PERMANEN: TEMPORARI SHOULD BI TOTAL DRI SHALL ONI 67 CUBIC REFER TO   | ATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FROIT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVY SEDIMENT FILTER.  E USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRAINAGE AREA.  LY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA.  THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SIN GEORGIA" FOR DESIGN CRITERIA.  | NOTE:  NOTE:  1. DO NO.  2. FOR A.  REFER. CONTR. | OT USE EROS<br>ADDITIONAL | INFORMATION ON THE<br>TEST EDITION OF THE   | DESIGN AND APPLICATION        | N A TIDAL AREA BELOW HIGH TIDE.<br>OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (<br>CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMEN  |
|        |   |   |   |   |                           |   | <b>REV</b><br>3/2/2017        | EROSION CONTROL LEGEND UNIFORM CODE SHEET   |

