

# EDEN COOK BLOCK - MORGAN ROAD STREETScape

## BID DOCUMENTS

WBS# 3607.3.12

TIP# ER-2971 G

RESURFACING CONTRACT NUMBER 7CR.20791.53

PREPARED FOR:

CITY OF EDEN, NC



SITE DATA

### REVISIONS

NONE

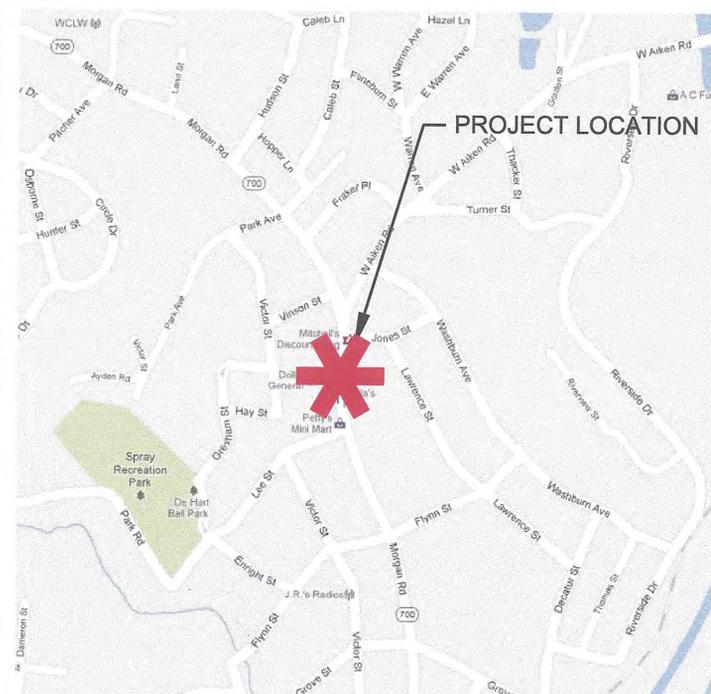
### PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE REMOVAL OF EXISTING ASPHALT, CONCRETE SIDEWALKS AND CONCRETE CURB AND GUTTER. COMPLETION OF: CURB AND GUTTER, CONCRETE SIDEWALKS, APRONS, CURB RAMPS, ASPHALT PAVING, STRIPING, INSTALLATION OF ELECTRICAL CONDUIT AND PULLBOXES, AND RETAINING WALL WITH RAILING.

ALTERNATES

NONE

### VICINITY MAP



SURVEYED BY: C.E. ROBERTSON &  
ASSOCIATES  
310 WEST MEADOW RD.  
EDEN, NC 27289

PREPARED BY:



**STEWART**

200 S. COLLEGE ST., STE 720  
CHARLOTTE, NC 28202  
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FIRM LICENSE # C-1051  
www.stewartinc.com  
PROJECT # K1031.00

# INDEX OF SHEETS

| SHEET NUMBER | SHEET   |
|--------------|---|
| 1            | TITLE SHEET   |
| 1-A          | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS |
| 2 - 2D       | PAVEMENT SCHEDULE, TYPICAL SECTIONS AND SPECIAL DETAILS       |
| 3            | SUMMARY OF QUANTITIES   |
| 4 - 6        | PLAN SHEETS   |

|                                    |           |
|------------------------------------|-----------|
| PROJECT REFERENCE NO.              | SHEET NO. |
| 3607.3.12 & 7CR.20791.53           | 1         |
| DIVISION DESIGN CONSTRUCT ENGINEER |           |

C.B. Smith 12/13

## 2012 ROADWAY STANDARD DRAWINGS

EFF. 01-17-12

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January 2012, are applicable to this project and by reference hereby are considered a part of these plans:

### GENERAL NOTES

2012 SPECIFICATIONS: EFFECTIVE: 01-17-12 REVISED: 07-30-2012  
 GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**SIDE ROADS:**

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**DRIVEWAYS:**

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

**STREET TURNOUT:**

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

**SUBSURFACE PLANS:**

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE:  
 AT & T- TELEPHONE DUKE ENERGY - POWER  
 TIME WARNER - CABLE PIEDMONT NATURAL GAS - GAS

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

**CURB RAMPS:**

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD. 848.05 and/or 848.06.

**STD.NO.**

**TITLE**

**DIVISION 8 - INCIDENTALS**

- 840.03 Frame, Grates and Hood - for use on Standard Catch Basin
- 846.01 Concrete Curb, Gutter and Curb & Gutter
- 848.01 Concrete Sidewalk
- 848.03 Driveway Turnout - Drop Curb Type
- 848.04 Street Turnout
- 848.05 Curb Ramp - Proposed Curb & Gutter
- 848.06 Curb Ramp - Existing Curb & Gutter

**DIVISION 11 - WORK ZONE TRAFFIC CONTROL**

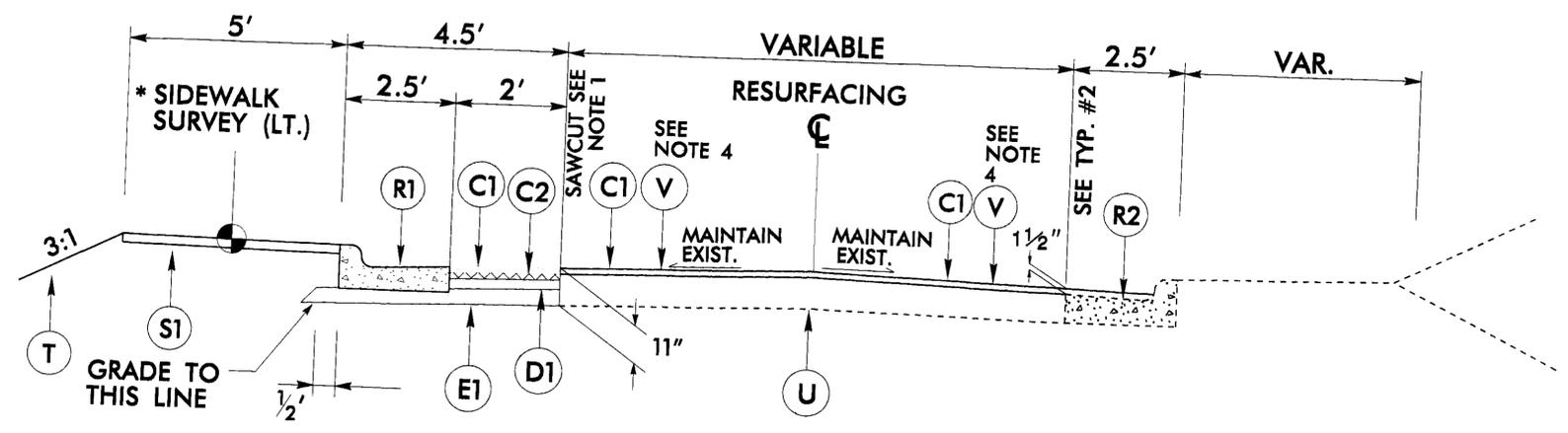
- 1101.01 Work Zone Warning Signs
- 1101.02 Temporary Lane Closures
- 1101.04 Temporary Shoulder Closures
- 1101.11 Traffic Control Design Tables
- 1110.01 Stationary Work Zone Signs
- 1110.02 Portable Work Zone Signs
- 1115.01 Flashing Arrow Boards
- 1130.01 Drums
- 1135.01 Cones
- 1150.01 Flagging Devices
- 1165.01 Work Vehicle Lighting Systems and TMA Delineation
- 1180.01 Skinny Drum

**DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION**

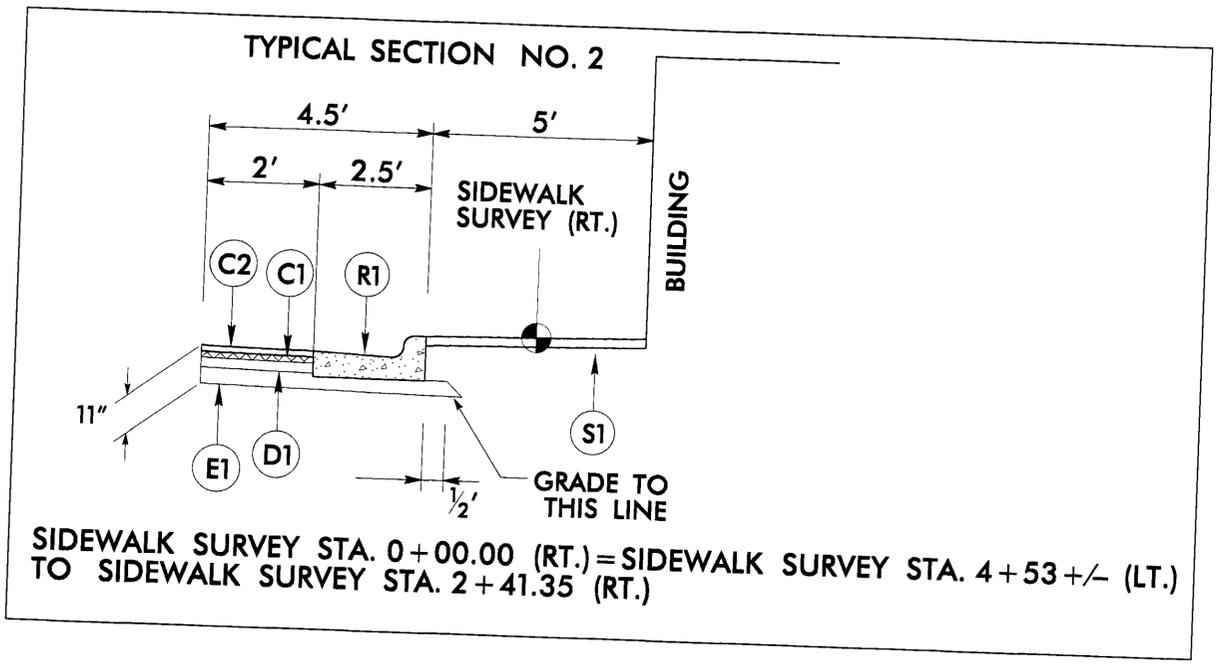
- 1205.01 Pavement Markings - Line Types and Offsets
- 1205.02 Pavement Markings - Two-Lane and Multilane Roadways
- 1205.04 Pavement Markings - Intersections
- 1205.05 Pavement Markings - Turn Lanes
- 1205.08 Pavement Markings - Symbols and Word Messages
- 1205.09 Pavement Markings - Painted Islands
- 1250.01 Raised Pavement Markers - Installation Spacing
- 1251.01 Raised Pavement Markers - Permanent and Temporary

**DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT**

- 1605.01 Temporary Silt Fence
- 1632.02 Rock Inlet Sediment Trap, Type "B"



**TYPICAL SECTION NO. 1**  
 SIDEWALK SURVEY STA. 0+00.00 TO STA. 6+30.00 (LT.)  
 REFER TO NOTE 3 FOR SIDEWALK STA. 3+52.14 TO 5+22.25 (LT.)  
 \*SIDEWALK WILL NOT BE PLACED ON SIDEWALK SURVEY FROM STA. 0+00.00 TO STA. 1+50+/- (LT.)

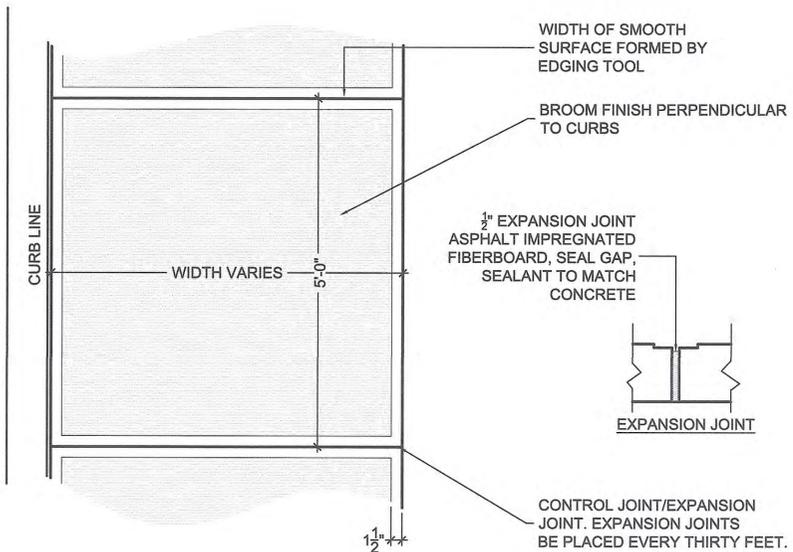


**TYPICAL SECTION NO. 2**  
 SIDEWALK SURVEY STA. 0+00.00 (RT.) = SIDEWALK SURVEY STA. 4+53+/- (LT.)  
 TO SIDEWALK SURVEY STA. 2+41.35 (RT.)

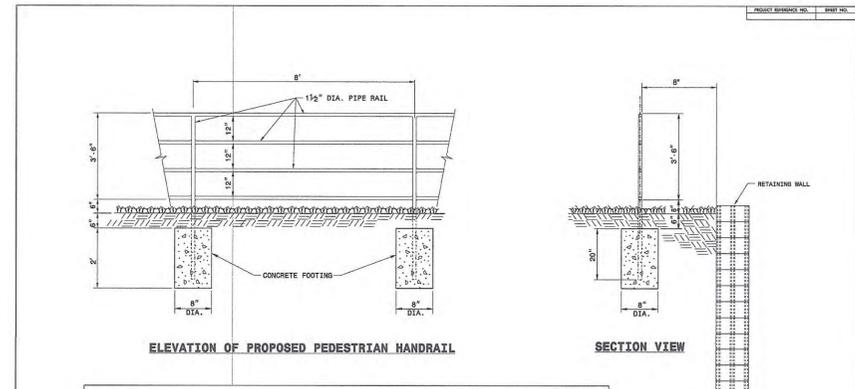
- NOTES:**
1. SAWCUT AND REMOVE EXISTING PAVEMENT AS NOTED ON PLANS.
  2. CONTRACTOR TO RETAIN THE EXISTING TOP OF CURB ELEVATION FOR PROPOSED CURB & GUTTER.
  3. SIDEWALK SURVEY (LT.) 3+52.14 TO 5+22.25 - PROPOSED RETAINING WALL AS SHOWN ON PLANS. SEE DETAIL C (PEDESTRIAN HANDRAILS). PEDESTRIAN RAIL IS REQUIRED IF:  
 THERE IS A VERTICAL DROP OF 30" OR MORE WITHIN 4 FT. OF THE WALK.  
 THERE IS A SLOPE OF 2:1 OR STEEPER WITHIN 4 FT. OF THE BACK OF THE WALK.  
 THERE IS A SLOPE OF 3:1 OR STEEPER WITHIN 4 FT. OF THE BACK OF WALK WITH A TOTAL ELEVATION CHANGE OF 6 FT. OR GREATER.
  4. MILL & FILL EXISTING ASPHALT PAVEMENT 1 1/2" AT LOCATIONS AS DIRECTED BY THE ENGINEER.
  5. SIDEWALK WILL NOT BE PLACED ON SIDEWALK SURVEY FROM STA. 0+00.00 TO STA. 1+50+/- (LT.)

| PAVEMENT SCHEDULE |  |
|-------------------|--|
| C1                | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF 9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| C2                | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF 9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| D1                | PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| E1                | PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.         |
| R1                | PROPOSED 2' - 6" CONCRETE CURB & GUTTER  |
| R2                | EXISTING 2' - 6" CONCRETE CURB & GUTTER.   |
| S1                | PROPOSED 4" CONCRETE SIDEWALK  |
| T                 | EARTH MATERIAL   |
| U                 | EXISTING PAVEMENT  |
| V                 | PROPOSED 1 1/2" MILL & FILL OF EXISTING ASPHALT PAVEMENT   |

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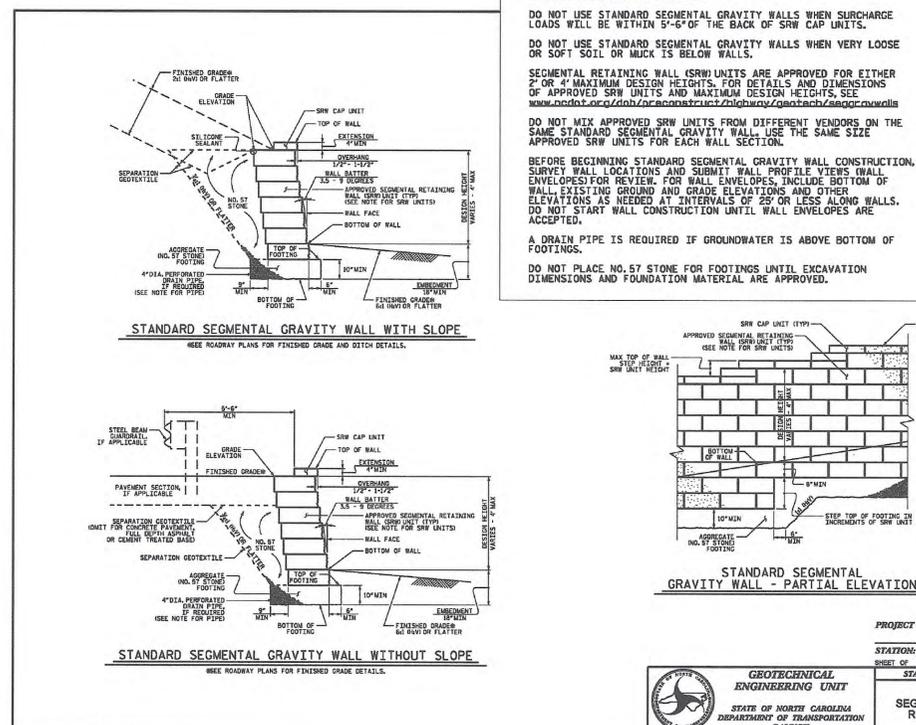


**A CONCRETE SIDEWALK FINISHING AND JOINT DETAIL**  
 SCALE: 1"=1'-0" SOURCE: STEWART

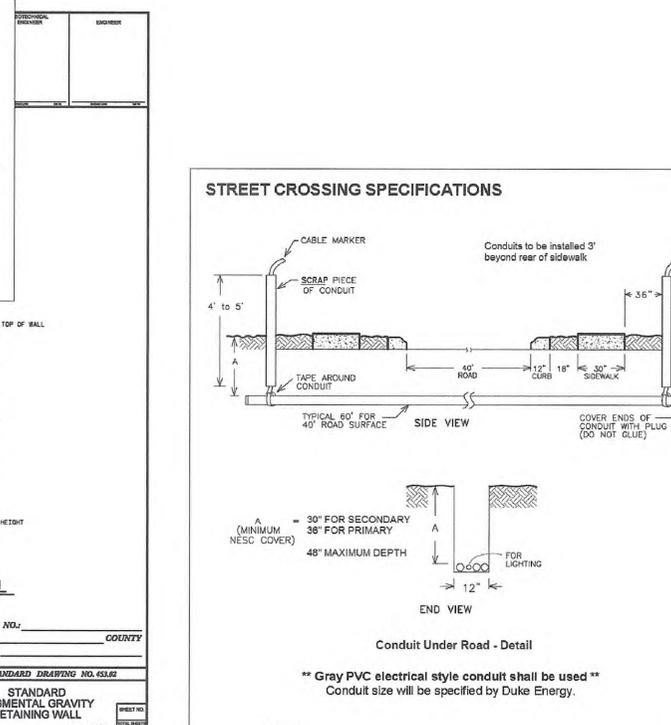


**NOTES:**  
 CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.  
 REPAIR GALVANIZING IN ACCORDANCE WITH SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.  
 PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.  
 WELD IN ACCORDANCE WITH ARTICLE 1072-20 OF THE STANDARD SPECIFICATIONS.  
 USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.  
 PLACEMENT OF HANDRAIL IN RELATION TO THE RETAINING WALL MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.

**C PEDESTRIAN HANDRAILS**  
 SCALE: 1/2" = 1'-0" SOURCE: NCDOT CSDU

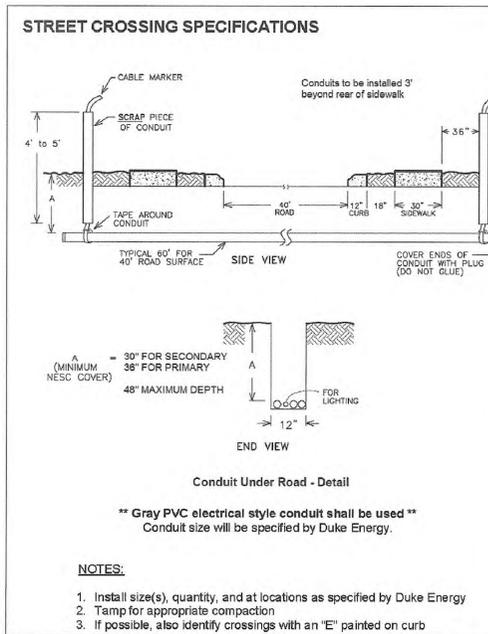


**B SEGMENTED RETAINING WALL**  
 SCALE: NOT TO SCALE SOURCE: NCDOT GEU

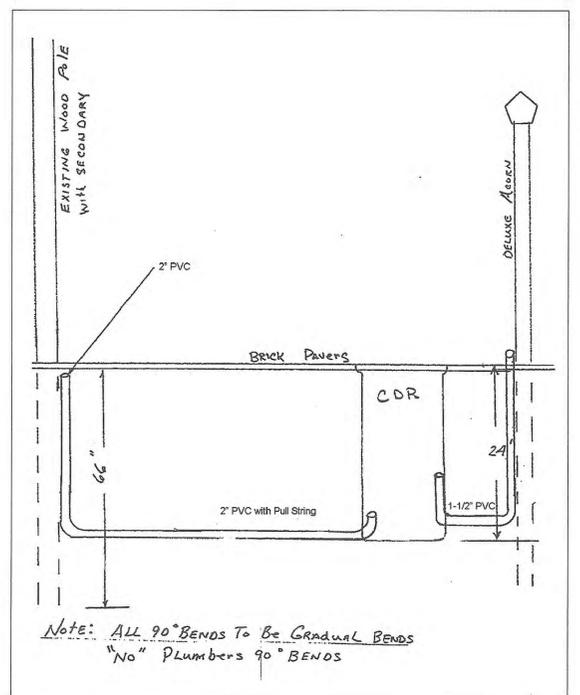


**D CONDUIT DETAIL**  
 SCALE: NOT TO SCALE SOURCE: DUKE ENERGY

**NOTES:**  
 FOR STANDARD SEGMENTAL GRAVITY RETAINING WALLS, SEE SEGMENTAL GRAVITY RETAINING WALLS PROVISION.  
 FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.  
 DO NOT ATTACH FENCES OR HANDRAILS TO STANDARD SEGMENTAL GRAVITY WALLS.  
 DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS FOR INTERSTATE HIGHWAY OR RAILROAD PROJECTS.  
 DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN SURCHARGE LOADS WILL BE WITHIN 5'-6" OF THE BACK OF SRW CAP UNITS.  
 DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW WALLS.  
 SEGMENTAL RETAINING WALL (SRW) UNITS ARE APPROVED FOR EITHER 2' OR 4' MAXIMUM DESIGN HEIGHTS. FOR DETAILS AND DIMENSIONS OF APPROVED SRW UNITS AND MAXIMUM DESIGN HEIGHTS, SEE [www.ncdot.gov/transportation/standard-drawings/segmental-gravity-walls](http://www.ncdot.gov/transportation/standard-drawings/segmental-gravity-walls)  
 DO NOT MIX APPROVED SRW UNITS FROM DIFFERENT VENDORS ON THE SAME STANDARD SEGMENTAL GRAVITY WALL. USE THE SAME SIZE APPROVED SRW UNITS FOR EACH WALL SECTION.  
 BEFORE BEGINNING STANDARD SEGMENTAL GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND SUBMIT WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. FOR WALL ENVELOPES, INCLUDE BOTTOM OF WALL, EXISTING GROUND AND GRADE ELEVATIONS AND OTHER ELEVATIONS AS NEEDED AT INTERVALS OF 25' OR LESS ALONG WALLS. DO NOT START WALL CONSTRUCTION UNTIL WALL ENVELOPES ARE ACCEPTED.  
 A DRAIN PIPE IS REQUIRED IF GROUNDWATER IS ABOVE BOTTOM OF FOOTINGS.  
 DO NOT PLACE NO. 57 STONE FOR FOOTINGS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

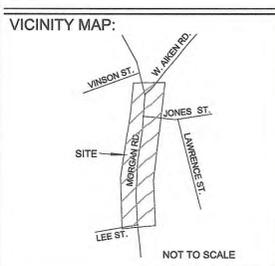


**C STREET CROSSING SPECIFICATIONS**



**D CONDUIT DETAIL**  
 SOURCE: DUKE ENERGY

**MORGAN ROAD STREETScape**  
 EDEN, NC



**BID DOCUMENTS**

**CLIENT:**  
 CITY OF EDEN  
 308 East Stadium Drive  
 Eden, North Carolina 27288

**CONSULTANTS:**  
  
**STEWART**  
 200 S. COLLEGE ST. STE 720 CHARLOTTE, NC 28202  
 FIRM LICENSE # C-1051  
 www.stewartinc.com PROJECT # K10331.00

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 310 WEST MEADOW RD.  
 EDEN, NC 27289

**REVISIONS:**

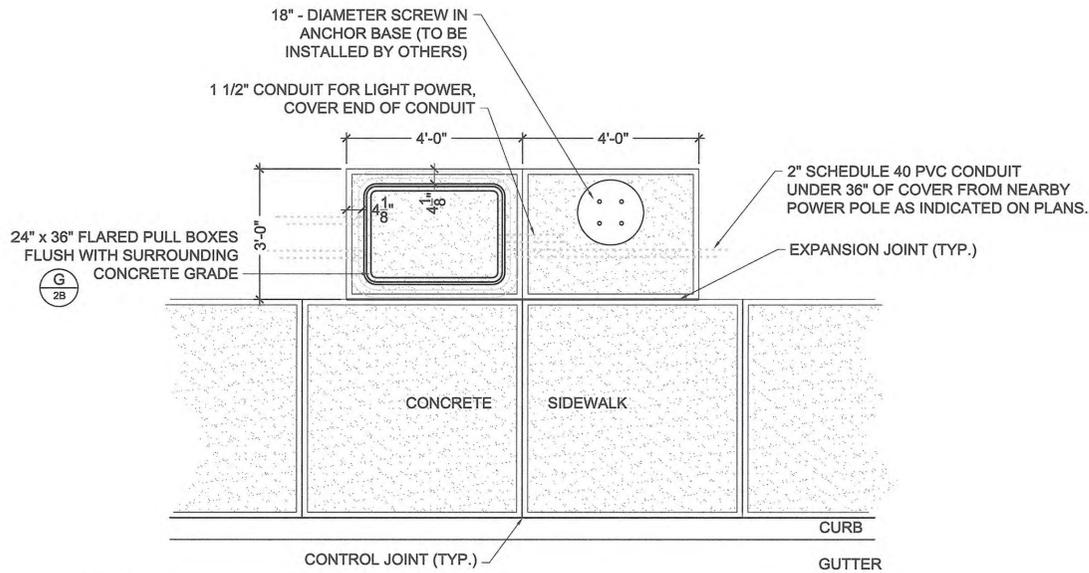
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**DATE:** AUGUST 20, 2013  
**PROJECT NUMBER:** K 10331  
**FILE NAME:** CD\_COOK BLOCK\_LAYOUT  
**DRAWN BY:** CEB, ABL  
**APPROVED BY:** ABL

**TITLE:**  
 DETAILS



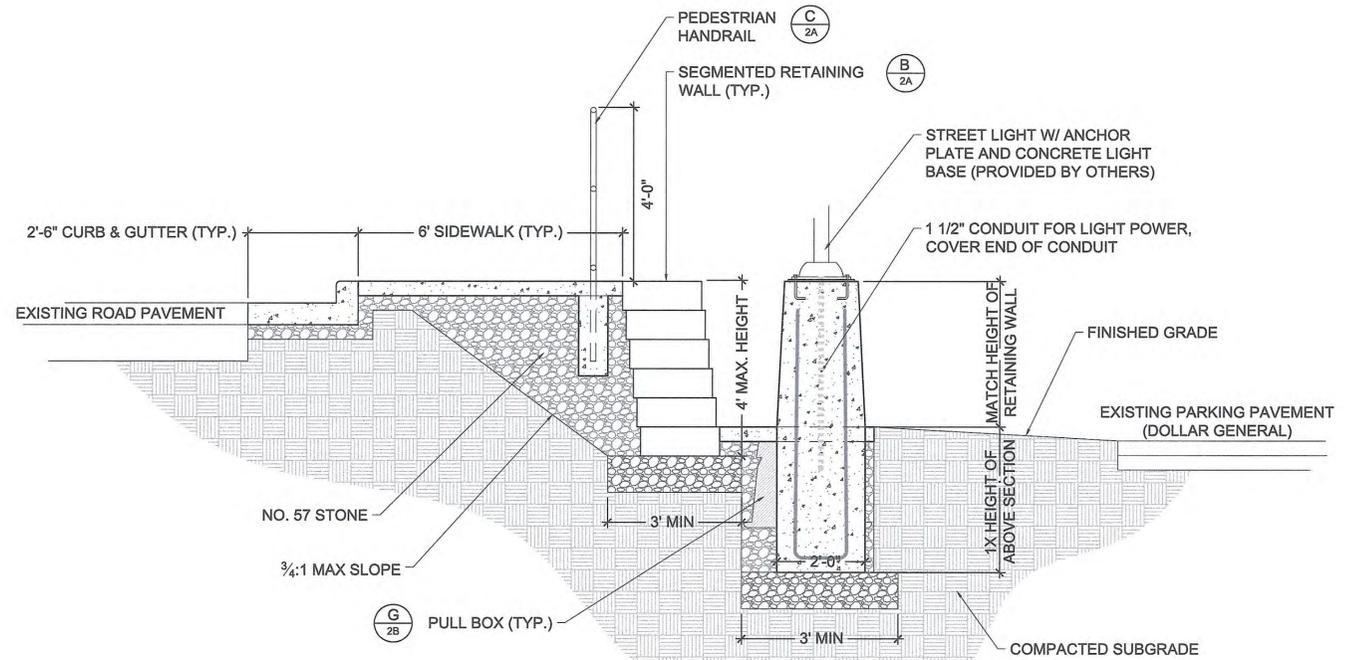
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- NOTES:
- PULL BOXES CAN BE LOCATED ON EITHER SIDE OF LIGHT. ADJUST TO EXISTING UTILITIES.
  - CONDUIT UNDER STREET SHALL BE SCHEDULE 80 PVC WITH 24" OF COVER. BACKFILL WITH FULL DEPTH ASPHALT.
  - CONDUITS TO BE BROUGHT INTO PULL BOXES AT KNOCK OUTS.
  - SEE DETAIL D, SHEET 2A FOR ADDITIONAL DUKE ENERGY CONDUIT INFORMATION

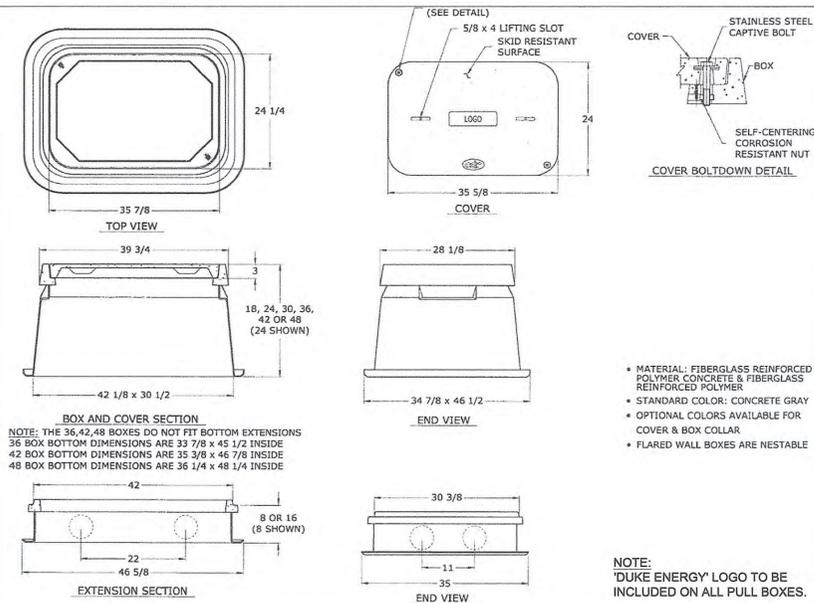
**E** LIGHT AND PULL BOX  
SCALE: 1/2"=1'-0"

SOURCE: STEWART



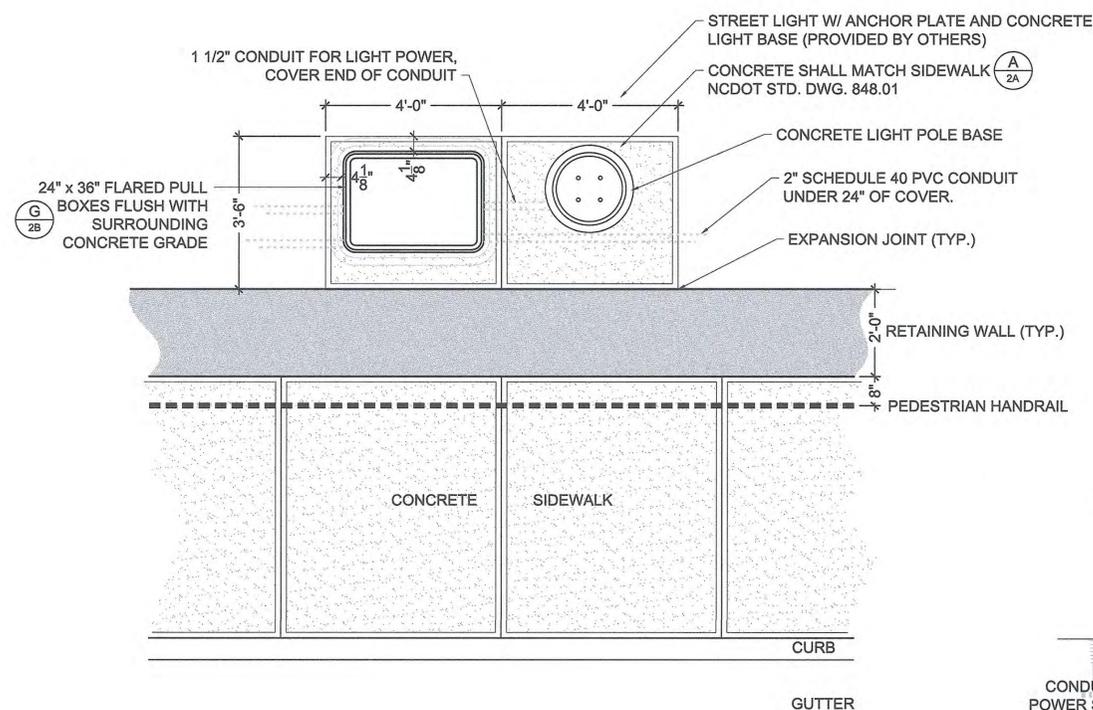
**G** RETAINING WALL, SIDEWALK, AND LIGHT PEDESTAL SECTION (TYP.)  
SCALE: 1/2"=1'-0"

SOURCE: STEWART



**F** PULL BOX  
SCALE: NOT TO SCALE

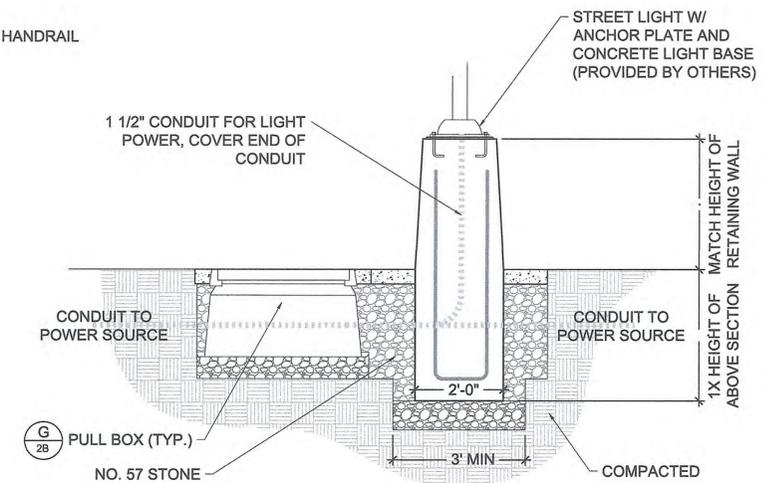
SOURCE: DUKE ENERGY



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**H** PEDESTAL LIGHT AND PULL BOX  
SCALE: 1/2"=1'-0"

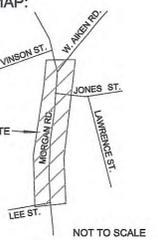
SOURCE: STEWART



**MORGAN ROAD STREETScape**

EDEN, NC

VICINITY MAP:



SEAL:  
**BID DOCUMENTS**

CLIENT:  
CITY OF EDEN  
308 East Stadium Drive  
Eden, North Carolina 27288

CONSULTANTS:



**STEWART**

200 S. COLLEGE ST., STE 720  
CHARLOTTE, NC 28202  
FIRM LICENSE #: C-1051  
WWW.STEWART-NC.COM  
PROJECT #: K10331.00

SURVEY BY:

C.E. ROBERTSON & ASSOCIATES  
310 WEST MEADOW RD.  
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REVISIONS:

SCALE: NOT TO SCALE

DATE: AUGUST 20, 2013

PROJECT NUMBER: K 10331

FILE NAME: CD\_COOK BLOCK\_LAYOUT

DRAWN BY: CEB, ABL

APPROVED BY: ABL

TITLE:

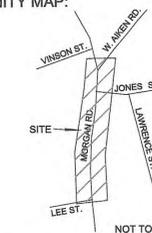
**DETAILS**

SHEET: 2B

# MORGAN ROAD STREETSCAPE

EDEN, NC

VICINITY MAP:



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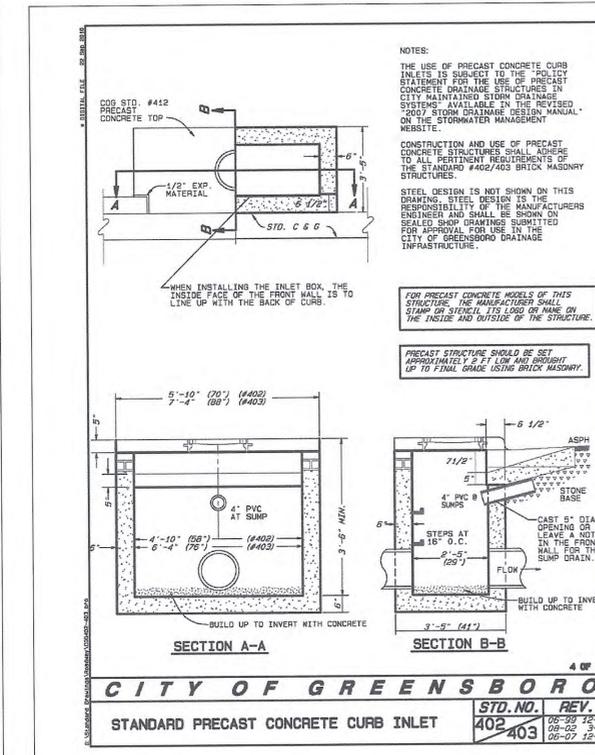
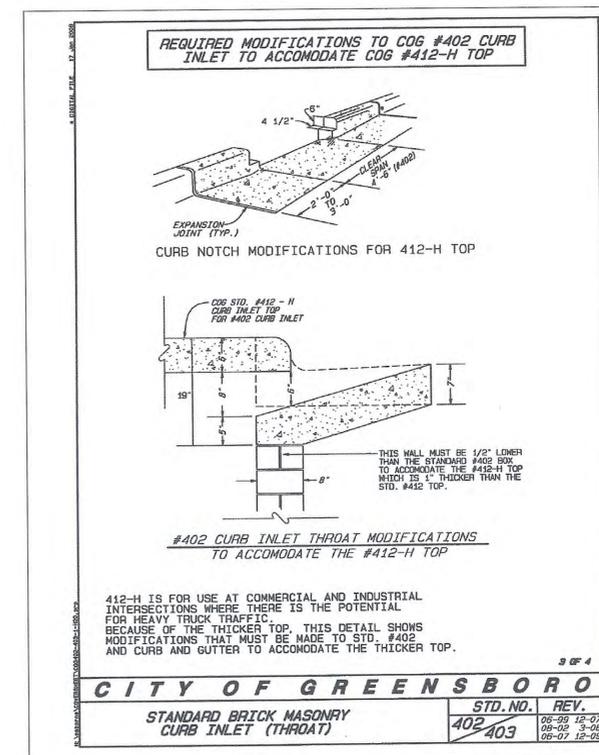
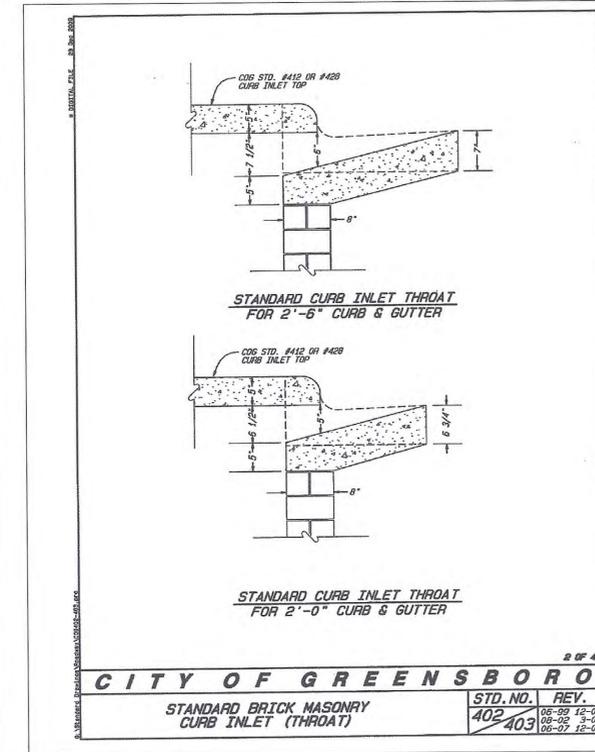
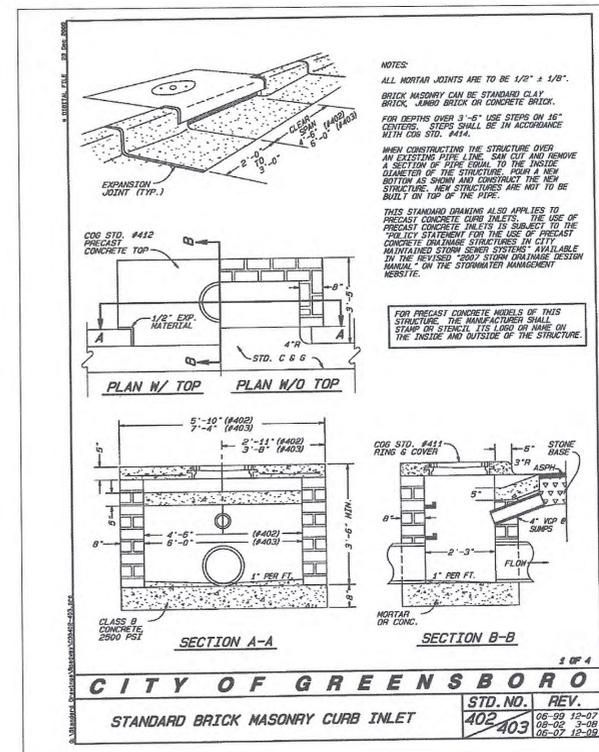
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DATE: AUGUST 20, 2013  
PROJECT NUMBER: K 10331  
FILE NAME: cd\_cook BLOCK\_LAYOUT

DRAWN BY: CEB, ABL  
APPROVED BY: ABL

TITLE:

DETAILS

SHEET: 2C



1 STANDARD BRICK MASONRY CURB INLET  
SCALE: NOT TO SCALE

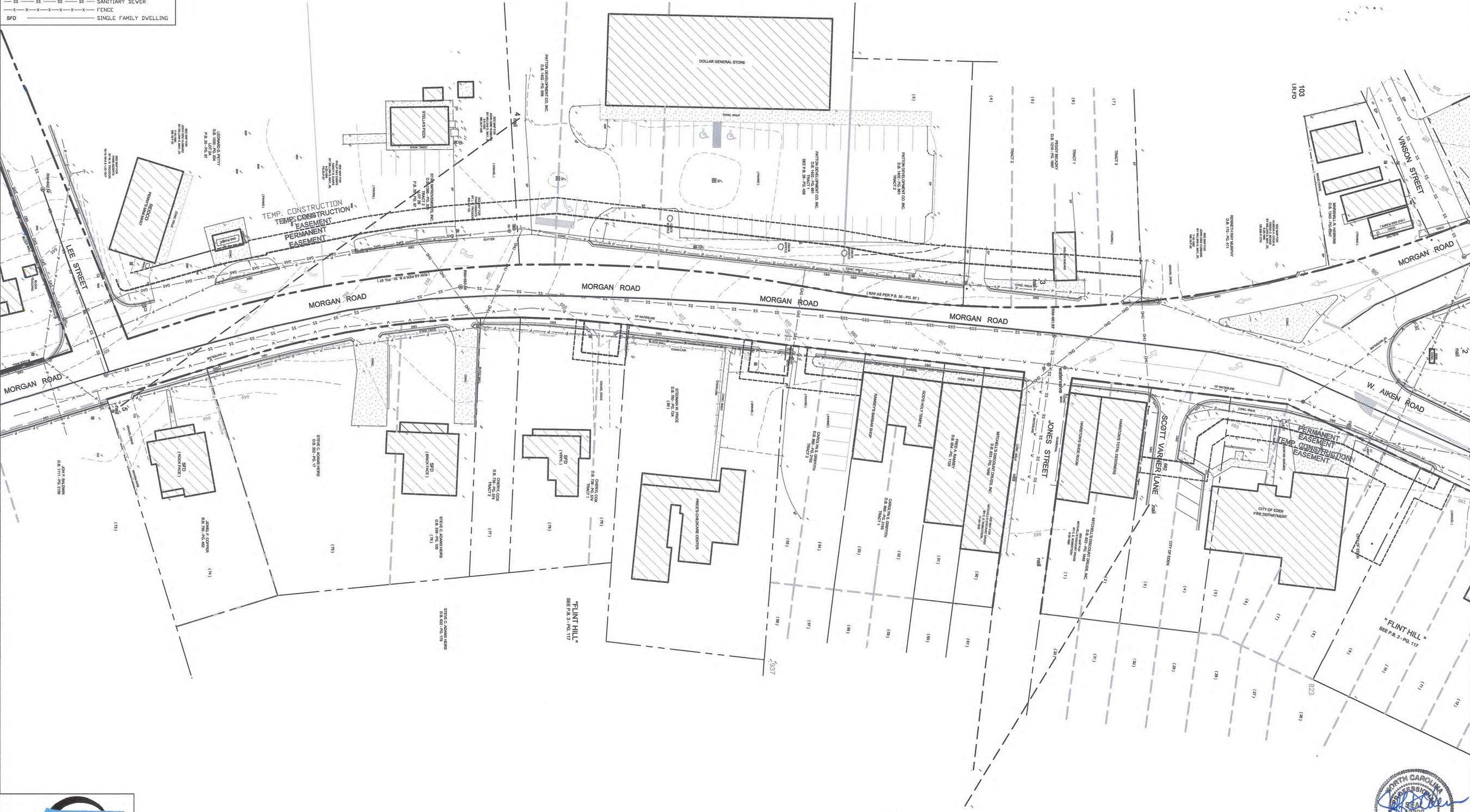
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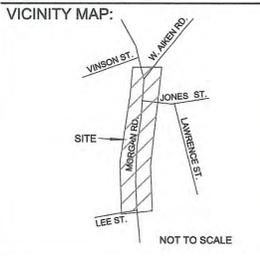
| SURVEY LEGEND |                        |
|---------------|------------------------|
| EIS           | EXISTING IRON STAKE    |
| IS            | IRON STAKE SET         |
| MDN           | CONCRETE MONUMENT      |
| CL            | CENTER LINE            |
| PT            | POINT                  |
| RV            | RIGHT-OF-WAY           |
| FH            | FIRE HYDRANT           |
| SSM           | SANITARY SEWER MANHOLE |
| UF            | UTILITY POLE           |
| WM            | WATER METER            |
| WV            | WATER VALVE            |
| GI            | GAS VALVE              |
| DI            | DROP INLET             |
| CI            | CURB INLET             |
| CD            | SEWER CLEAN OUT        |
| MW            | MONITORING WELL        |
| MB            | MAIL BOX               |
| S             | SIGN                   |
| GW            | GUY WIRE               |
| EP            | EDGE OF PAVEMENT       |
| C&G           | CURB & GUTTER          |
| V             | WATERLINE              |
| P             | POWERLINE              |
| DH            | OVERHEAD UTILITY       |
| SS            | SANITARY SEWER         |
| X             | FENCE                  |
| SFD           | SINGLE FAMILY DWELLING |

NOTE: PERMANENT AND TEMP. CONSTRUCTION EASEMENTS ARE APPROXIMATE



# MORGAN ROAD STREETScape

EDEN, NC



SEAL:  
BID DOCUMENTS

CLIENT:  
CITY OF EDEN  
308 East Stadium Drive  
Eden, North Carolina 27288

CONSULTANTS:

## STEWART

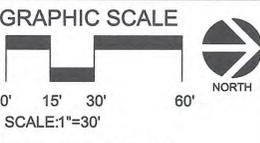
200 S. COLLEGE ST. STE 720  
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REVISIONS:

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DATE: AUGUST 20, 2013  
PROJECT NUMBER: K 10331  
FILE NAME: CD\_COOK BLOCK\_LAYOUT  
DRAWN BY: CEB, ABL  
APPROVED BY: ABL

TITLE:  
SURVEY

SHEET: 2D



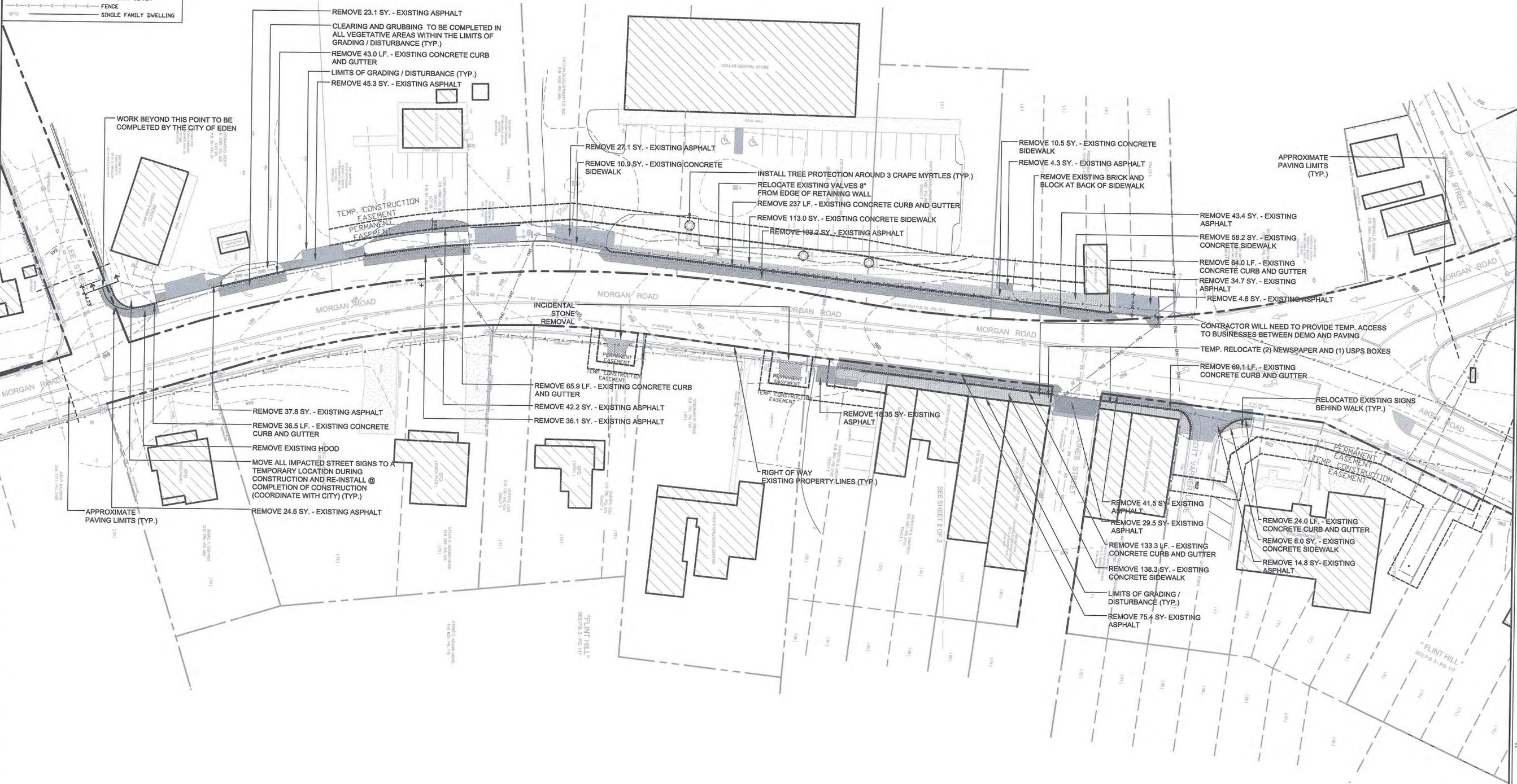
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| SURVEY LEGEND |                        |
|---------------|------------------------|
| E.I.S.        | EXISTING IRON STAKE    |
| I.S.          | IRON STAKE SET         |
| C.M.          | CONCRETE MONUMENT      |
| C.L.          | CENTER LINE            |
| P.T.          | POINT                  |
| R.V.          | RIGHT-OF-WAY           |
| F.H.          | FIRE HYDRANT           |
| S.S.M.        | SANITARY SEWER MANHOLE |
| U.P.          | UTILITY POLE           |
| W.M.          | WATER METER            |
| W.V.          | WATER VALVE            |
| G.V.          | GAS VALVE              |
| D.I.          | DROP INLET             |
| C.I.          | CURB INLET             |
| S.C.O.        | SEWER CLEAN OUT        |
| M.W.          | MONITORING WELL        |
| M.B.          | MAIL BOX               |
| S.            | SIGN                   |
| G.W.          | GUY WIRE               |
| E.P.          | EDGE OF PAVEMENT       |
| C.G.          | CURB & GUTTER          |
| V.            | WATERLINE              |
| P.V.          | POWERLINE              |
| O.U.          | OVERHEAD UTILITY       |
| S.S.          | SANITARY SEWER         |
| F.            | FENCE                  |
| S.F.D.        | SINGLE FAMILY DWELLING |

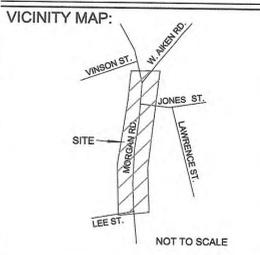
| DEMOLITION LEGEND |                                 |
|-------------------|---------------------------------|
| (Diagonal lines)  | LIMITS OF GRADING / DISTURBANCE |
| (Dashed lines)    | REMOVE EXISTING CURB AND GUTTER |
| (Cross-hatch)     | REMOVE EXISTING CONCRETE        |
| (Stippled)        | REMOVE EXISTING ASPHALT         |

NOTES:  
 1.) PERMANENT AND TEMP. CONSTRUCTION EASEMENTS ARE APPROXIMATE  
 2.) CONTRACTOR RESPONSIBLE FOR PROPER DISPOSAL OF ALL REMOVED MATERIALS



# MORGAN ROAD STREETScape

EDEN, NC



SEAL:  
**BID DOCUMENTS**

CLIENT:  
 CITY OF EDEN  
 308 East Stadium Drive  
 Eden, North Carolina 27288

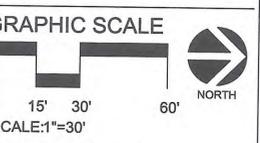
CONSULTANTS:

**STEWART**  
 200 S. COLLEGE ST. STE 720 FIRM LICENSE # C-1051  
 CHARLOTTE, NC 28202 www.stewartinc.com  
 T 704.334.7925 PROJECT # K10331.00

SURVEY BY:  
 C.E. ROBERTSON & ASSOCIATES  
 310 WEST MEADOW RD.  
 EDEN, NC 27289

REVISIONS:

| NO. | DESCRIPTION |
|-----|-------------|
|     |             |
|     |             |
|     |             |
|     |             |
|     |             |



DATE: AUGUST 20, 2013  
 PROJECT NUMBER: K 10331  
 FILE NAME: CD\_COOK BLOCK DEMO  
 DRAWN BY: CEB, ABL  
 APPROVED BY: ABL

TITLE:  
**DEMOLITION PLAN**

SHEET: 4



J:\CAD DATA\Projects\10331 Eden Cook Block\Drawings\Construction\COOK BLOCK DEMO\DEMOLITION.dwg Sep 17, 2013 - 10:50am

| SURVEY LEGEND |                        |
|---------------|------------------------|
| ES            | EXISTING IRON STAKE    |
| IS            | IRON STAKE SET         |
| MD            | CONCRETE MONUMENT      |
| CL            | CENTER LINE            |
| PT            | POINT                  |
| RV            | RIGHT-OF-WAY           |
| FH            | FIRE HYDRANT           |
| SSM           | SANITARY SEWER MANHOLE |
| UP            | UTILITY POLE           |
| WM            | WATER METER            |
| WV            | WATER VALVE            |
| GV            | GAS VALVE              |
| DI            | DROP INLET             |
| CI            | CURB INLET             |
| SC            | SEWER CLEAN OUT        |
| MW            | MONITORING WELL        |
| MB            | MAILBOX                |
| S             | SIGN                   |
| GW            | GUY WIRE               |
| EP            | EDGE OF PAVEMENT       |
| CG            | CURB & GUTTER          |
| WL            | WATERLINE              |
| PL            | POWERS                 |
| OU            | OVERHEAD UTILITY       |
| SS            | SANITARY SEWER         |
| F             | FENCE                  |
| SFD           | SINGLE FAMILY DWELLING |

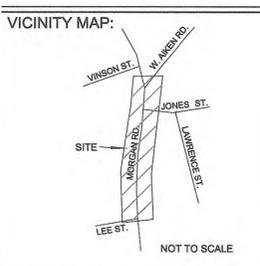
| LAYOUT AND GRADING LEGEND |                                    |
|---------------------------|------------------------------------|
| (Symbol)                  | PROPOSED SIDEWALK                  |
| (Symbol)                  | PROPOSED CURB AND GUTTER           |
| (Symbol)                  | PROPOSED RAMPS WITH WARNING DOMES  |
| (Symbol)                  | PROPOSED DRIVEWAY APRONS           |
| (Symbol)                  | PROPOSED LIGHT AND PULL BOX        |
| (Symbol)                  | PROPOSED PEDESTAL LIGHT & PULL BOX |
| (Symbol)                  | PROPOSED RETAINING WALL            |
| (Symbol)                  | PROPOSED HANDRAIL                  |
| (Symbol)                  | PROPOSED MAJOR CONTOURS            |
| (Symbol)                  | PROPOSED MINOR CONTOURS            |
| (Symbol)                  | PROPOSED CONTOUR LABELS            |
| (Symbol)                  | PROPOSED SPOT GRADES               |

NOTE: PERMANENT AND TEMP. CONSTRUCTION EASEMENTS ARE APPROXIMATE



# MORGAN ROAD STREETScape

EDEN, NC



SEAL:  
**BID DOCUMENTS**

CLIENT:  
CITY OF EDEN  
308 East Stadium Drive  
Eden, North Carolina 27288

CONSULTANTS:

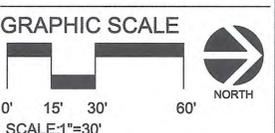
**STEWART**  
200 S. COLLEGE ST. STE 720  
CHARLOTTE, NC 28202  
704.334.7626

FIRM LICENSE #: C-1051  
www.stewartinc.com  
PROJECT #: K10331.00

SURVEY BY:  
C.E. ROBERTSON & ASSOCIATES  
310 WEST MEADOW RD.  
EDEN, NC 27289

REVISIONS:

| NO. | DESCRIPTION |
|-----|-------------|
|     |             |
|     |             |
|     |             |
|     |             |
|     |             |



DATE: AUGUST 20, 2013  
PROJECT NUMBER: K 10331  
FILE NAME: CD\_COOK BLOCK GRADING  
DRAWN BY: CEB, ABL  
APPROVED BY: ABL

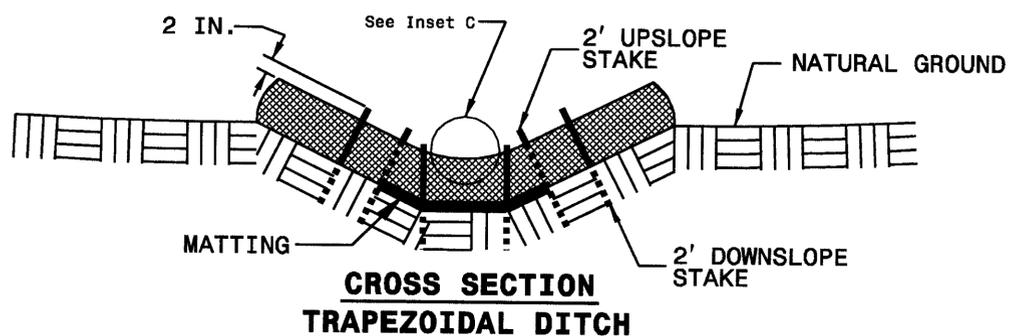
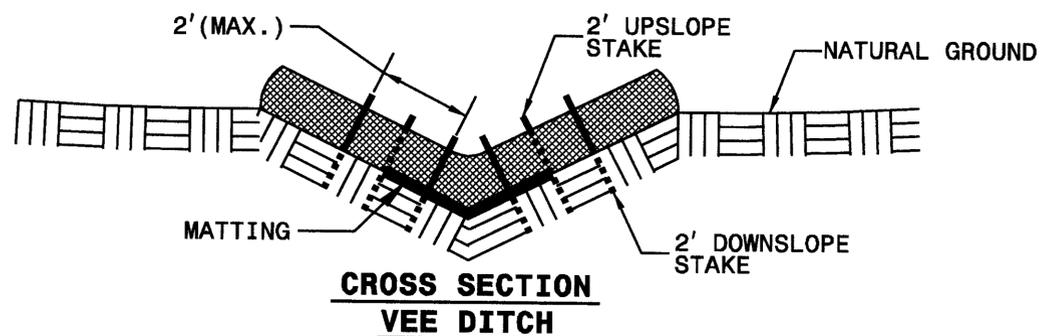
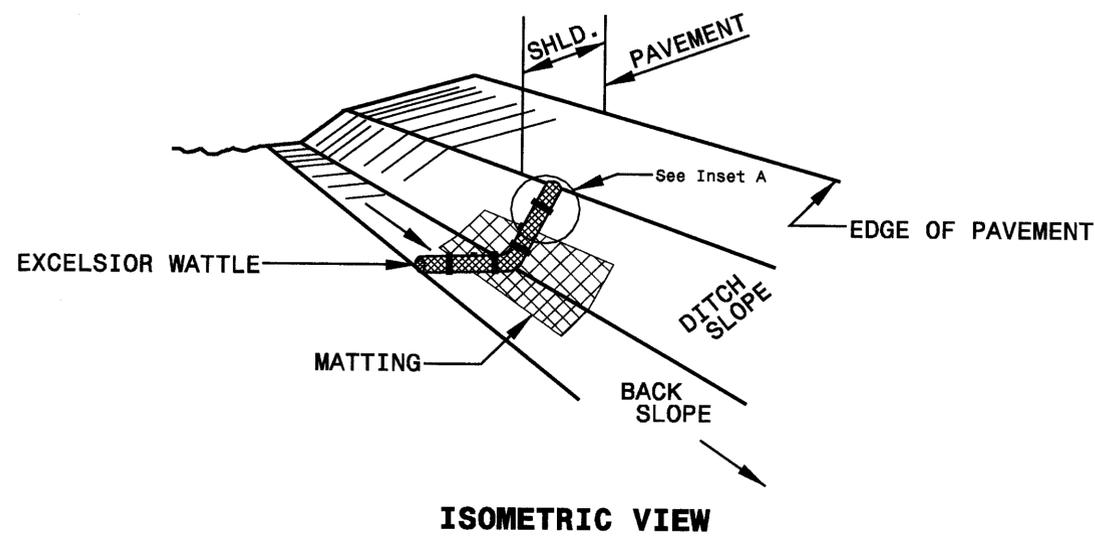
TITLE:  
**GRADING & EROSION CONTROL PLAN**

SHEET: 5



J:\CAD DATA\ Projects\10331 Eden Cook Block\Drawings\Construction Documents\COOK BLOCK GRADING.dwg Sep 17, 2013 - 10:51am

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

**ONLY** INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

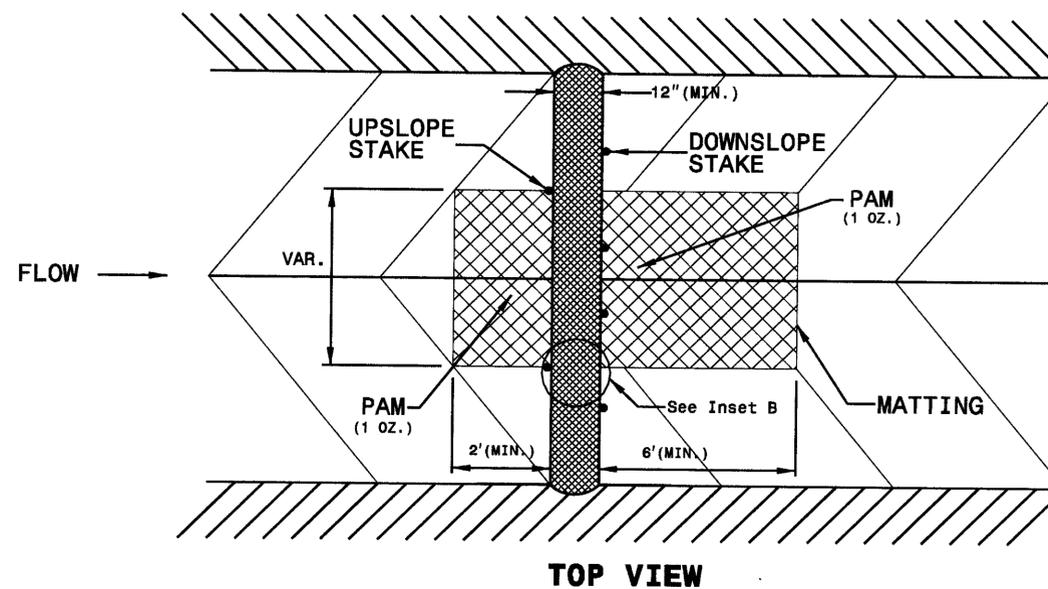
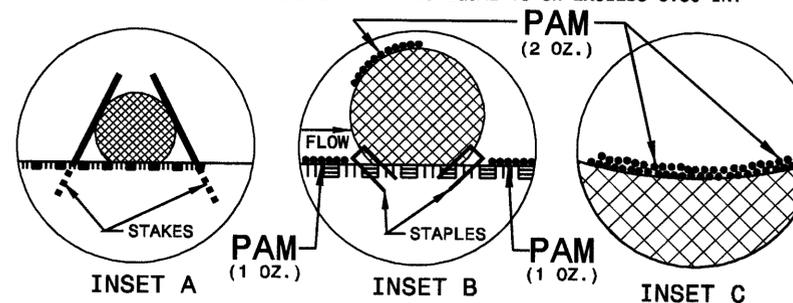
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

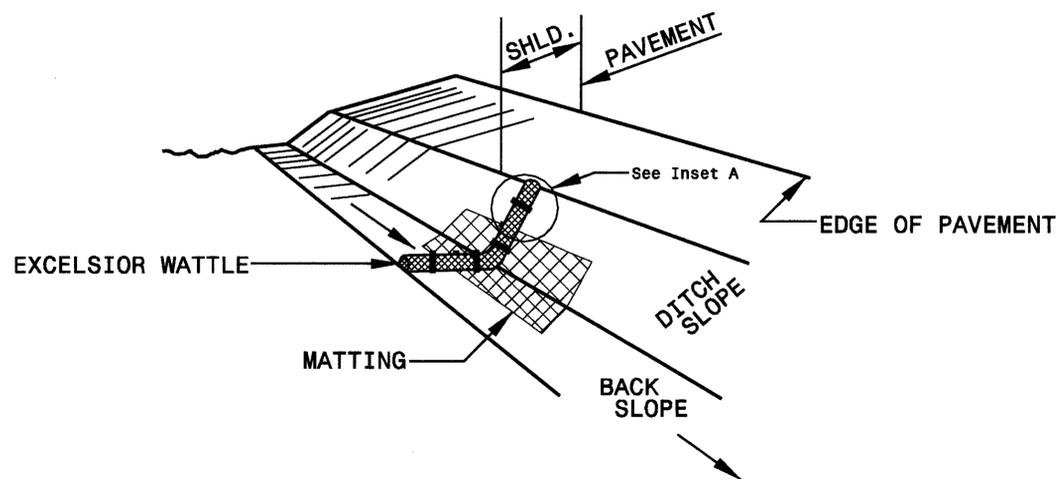
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

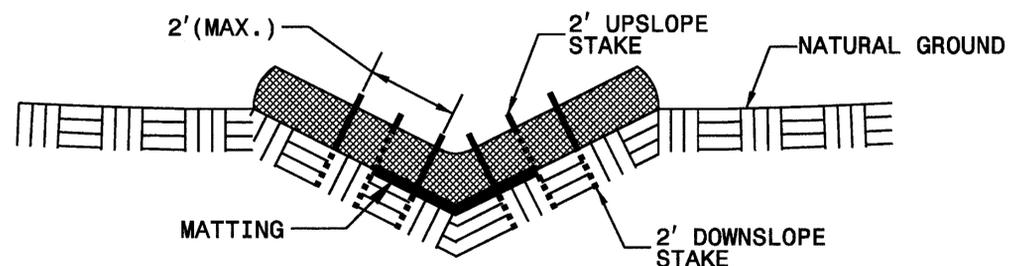


5/14/99  
02-OCT-2013 10:42  
ghem\Eden - Cook\Roadway\Proc\COOK\_Rdy\_tjg.dgn

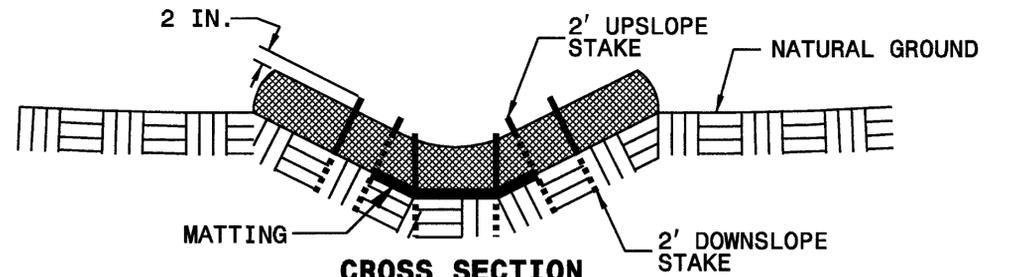
# WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**

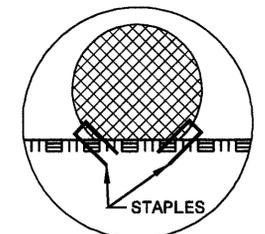


**CROSS SECTION TRAPEZOIDAL DITCH**

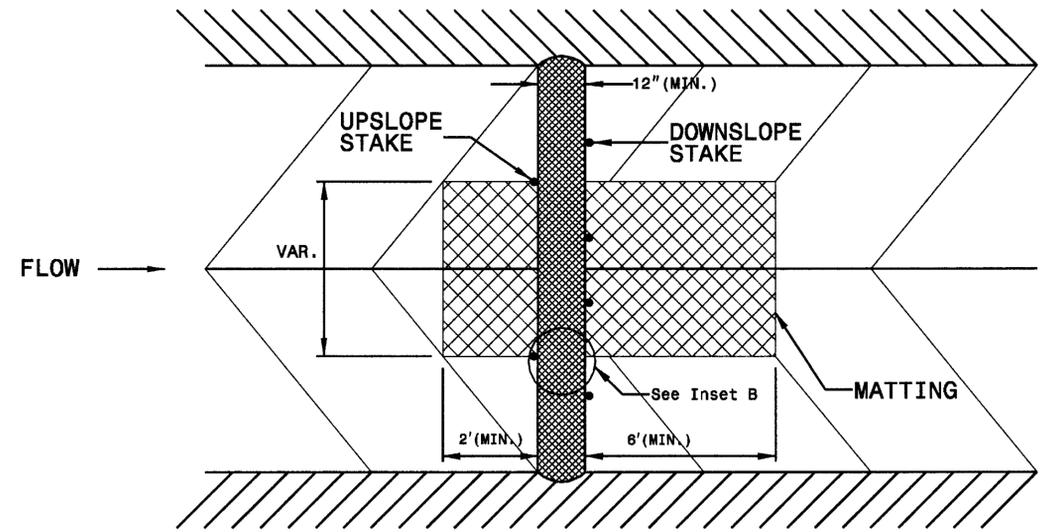
- NOTES:**
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



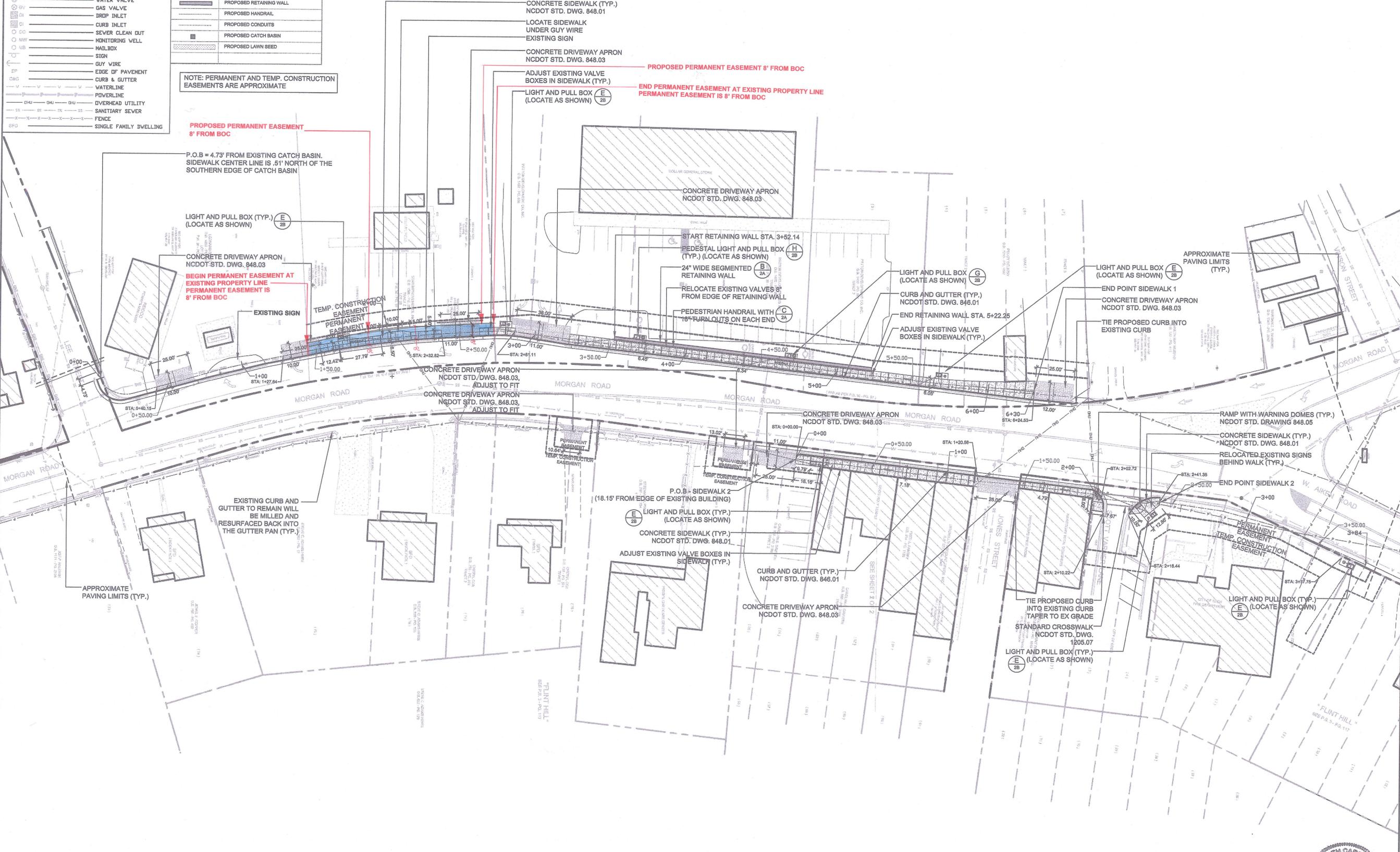
**TOP VIEW**

5/14/09  
02-007-2013 10:42  
C:\Users\jcook\OneDrive\Projects\Roadway\Pro\1\COOK\_Rdy\_tup.dgn

| SURVEY LEGEND |                               |
|---------------|-------------------------------|
| IS            | EXISTING IRON STAKE           |
| IS            | IRON STAKE SET                |
| MC            | CONCRETE MONUMENT CENTER LINE |
| PT            | POINT                         |
| RV            | RIGHT-OF-WAY                  |
| SH            | FIRE HYDRANT                  |
| SV            | SANITARY SEWER MANHOLE        |
| UP            | UTILITY POLE                  |
| VM            | WATER METER                   |
| WV            | WATER VALVE                   |
| GV            | GAS VALVE                     |
| DI            | DROP INLET                    |
| CI            | CURB INLET                    |
| CO            | SEWER CLEAN OUT               |
| HW            | MONITORING WELL               |
| MB            | MAIL BOX                      |
| SG            | SIGN                          |
| GW            | GUY WIRE                      |
| EP            | EDGE OF PAVEMENT              |
| CG            | CURB & GUTTER                 |
| WL            | WATERLINE                     |
| PL            | POWERLINE                     |
| DU            | OVERHEAD UTILITY              |
| SS            | SANITARY SEWER                |
| FE            | FENCE                         |
| SF            | SINGLE FAMILY DWELLING        |

| LAYOUT LEGEND |                                    |
|---------------|------------------------------------|
|               | PROPOSED SIDEWALK                  |
|               | PROPOSED CURB AND GUTTER           |
|               | PROPOSED RAMPS WITH WARNING DOMES  |
|               | PROPOSED DRIVEWAY APRONS           |
|               | PROPOSED LIGHT AND PULL BOX        |
|               | PROPOSED PEDESTAL LIGHT & PULL BOX |
|               | PROPOSED RETAINING WALL            |
|               | PROPOSED HANDRAIL                  |
|               | PROPOSED CONDUITS                  |
|               | PROPOSED CATCH BASIN               |
|               | PROPOSED LAWN SEED                 |

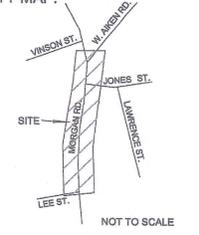
NOTE: PERMANENT AND TEMP. CONSTRUCTION EASEMENTS ARE APPROXIMATE



# MORGAN ROAD STREETScape

EDEN, NC

VICINITY MAP:



SEAL:  
BID DOCUMENTS

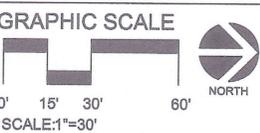
CLIENT:  
CITY OF EDEN  
308 East Stadium Drive  
Eden, North Carolina 27288

CONSULTANTS:

**STEWART**  
200 S. COLLEGE ST., STE 720  
CHARLOTTE, NC 28202  
FIRM LICENSE #: C-1051  
PROJECT #: K10331.00

SURVEY BY:  
C.E. ROBERTSON & ASSOCIATES  
310 WEST MEADOW RD.  
EDEN, NC 27289

REVISIONS:



DATE: AUGUST 20, 2013  
PROJECT NUMBER: K 10331  
FILE NAME: CD\_COOK BLOCK\_LAYOUT  
DRAWN BY: CEB, ABL  
APPROVED BY: ABL

TITLE:  
LAYOUT PLAN

SHEET: 6

