DIVISION 08 – INCIDENTALS

08 10 00 GENERAL PROVISIONS

A. All work in this Division shall be completed in accordance with the provisions of Division 8 of the North Carolina Department of Transportation Standard Specifications for Roads and Structures 2006 Edition (hereinafter referred to as *Standard Specifications*) except as amended or supplemented herein.

08 20 00 SPECIAL PROVISIONS-NCDOT

01. MASONRY DRAINAGE STRUCTURES:

(10-16-07) SP8R01

Revise the 2006 *Standard Specifications* as follows:

Page 8-31, Article 840-4 Measurement and Payment, add the following at the end of the second paragraph:

For that portion of *Masonry Drainage Structure* measured above a height of 10.0 feet, payment will be made at 1.3 times the contract unit price per linear foot for *Masonry Drainage Structure.*

02. CONCRETE TRANSITIONAL SECTIONS FOR CATCH BASINS AND DROP INLETS:

(1-20-09) SP8 R03

Revise the *Standard Specifications* as follows:

Page 8-32, Article 840-4 Measurement and Payment, delete the eighth full paragraph and replace with the following:

No separate payment will be made for Concrete Aprons as shown in Standard Drawings 840.17, 840.18, 840.19, 840.26, 840.27 and 840.28 and will be incidental to the other work in this section.

Page 8-38, Article 852-4, Measurement and Payment, add the following as the fourth paragraph:

Concrete Transitional Section for Catch Basin will be measured and paid for in units of each.

Concrete Transitional Section for Drop Inlet will be measured and paid for in units of each.

Payment will be made under:

Pay Item	Pay Unit
Concrete Transitional Section for Catch Basin	Each
Concrete Transitional Section for Drop Inlet	Each

Revise the Roadway Standard Drawings as follows:

On page 852.04, delete the statement: *CONCRETE APRON IS INCIDENTAL TO CONSTRUCTION OF THE DRAINAGE STRUCTURE and change *Pay Limits for Concrete Apron for Drop Inlets in two places on the drawing to *Pay Limits for Concrete Transitional Section for Drop Inlet.*

On page 852.05, delete the statement: *CONCRETE APRON IS INCIDENTAL TO CONSTRUCTION OF THE DRAINAGE STRUCTURE and change *Concrete Apron for Catch Basin on the drawing to *Concrete Transitional Section for Catch Basin.*

On page 852.06, delete the statement: *CONCRETE APRON IS INCIDENTAL TO CONSTRUCTION OF THE DRAINAGE STRUCTURE and change *Pay Limits for Concrete Apron for Drop Inlets in two places on the drawing to *Pay Limits for Concrete Transitional Section for Drop Inlet.*

03. ENDWALLS:

(5-20-08) SP8R25

Revise the *Standard Specifications* as follows:

Page 8-28, Article 838-4 Replace the 1st and 2nd paragraph with the following:

Endwalls will be measured and paid for in cubic yards of concrete or brick that have been completed and accepted. This quantity will be computed from the dimensions shown on the plans or from revised authorized dimensions. Where precast concrete units have been approved and are used in lieu of cast-in-place units the

quantity to be paid for will be computed the same as if cast-in-place units were used, as no reduction in pay quantity will be made due to the use of precast in lieu of cast in place endwalls.

Reinforced Endwalls will be measured and paid for in cubic yards of concrete or brick that have been completed and accepted. This quantity will be computed from the dimensions shown on the plans or from revised authorized dimensions. Where precast concrete units have been approved and are used in lieu of cast-in-place units the quantity to be paid for will be computed the same as if cast-in-place units were used, as no reduction in pay quantity will be made due to the use of precast in lieu of reinforced cast in place endwalls.

04. CONVERT EXISTING CURB INLET TO JUNCTION BOX:

(1-1-02) (Rev. 7-18-06) SP8 R50

1. At the proper phase of construction, convert the existing Curb Inlet at locations indicated in the plans or where directed, to junction box in accordance with the details in the plans and the applicable requirements of Sections 840 and 859 of the *Standard Specifications*.
2. *Convert Existing Curb Inlet to Junction Box* will be measured and paid for as each, completed and accepted. Such price and payment is considered full compensation for all equipment, materials, labor, tools, and incidentals necessary to complete each conversion satisfactorily.
3. Payment will be made under:

Pay Item	Pay Unit
CONVERT EXISTING CURB INLET TO JUNCTION BOX	Each

05. FENCE:

(3-6-06) SP8 R86

Revise the 2006 Standard Specifications as follows:

Page 8-54, Subarticle 866-3(A), second sentence,

Add *existing fencing* after stumps

06. CHAIN LINK FENCING WITH BARBED WIRE ON EXTENSION ARMS:

(7-1-95) SP8 R100

A. Description

1. Provide [size_____] chain link fencing with barbed wire on extension arms in accordance with the plans, Section 866 of the *2006 Standard Specifications*, and the provisions herein.

B. Construction Methods

1. On all [size_____] fencing on this project, place three strands of barbed wire placed at the top of the fence fabric. Attach the barbed wire to extension arms that are to be fitted to the post tops.
2. Provide extension arms constructed to locate the top most strand of barbed wire approximately 12 inches above and approximately 12 inches out from the top rail. Space all strands of barbed wire at an approximately equal distance from each other. Make provisions for supporting the top rail. The arm shall make a 45 degree angle with the post, and be an item of standard manufacture. Have samples of extension arms to be used on the project approved prior to their installation.
3. Fabricate the extension arms from pressed steel or malleable wrought iron, or either of these materials in conjunction with a cast base. Provide a minimum weight of the arm material of 14 gauge. Provide a complete arm assembly of sufficient strength to support the barbed wire when stretched to proper tension. Galvanize all arms in accordance with ASTM A153.
4. Erect extension arms so as to point away from the pavement. Splicing of barbed wire between the arms will not be permitted. Use a method of attaching barbed wire to the arms acceptable to the Engineer.

C. Measurement and Payment

1. No direct payment will be made for furnishing and installing the barbed wire and extension arms as such work will be considered incidental to other work being paid for by the various fencing items in the contract.

07. RETROFITTING WHEELCHAIR RAMPS WITH DETECTABLE WARNINGS (RAISED TRUNCATED DOMES):

(10-21-03) (Rev.7-18-06) SP8 R125

A. Description

1. This work shall consist of retrofitting existing concrete wheelchair ramps with detectable warnings in accordance with the details, *Standard Specifications* and these provisions.

B. Materials

1. Detectable warnings and truncated domes shall be in accordance with Article 848-2 of the *Standard Specifications* for paving blocks or stamped concrete.

C. Construction Methods

1. Place detectable warnings and truncated domes in accordance with Section 848-3 of the *Standard Specifications*. Sawcut to the full depth of the concrete and adjust the existing subgrade to the proper grade prior to placing concrete to be stamped or installing paving blocks.
2. The detectable warnings shall have the same or nearly the same contrast as the existing ramp.

D. Measurement and Payment

1. *Retrofit Existing Wheelchair Ramps* will be measured and paid for as the actual number of retrofitted wheelchair ramps, which have been completed and accepted. Such price and payment will be full compensation for excavation and backfilling; sawing, repairing and/or replacing the existing sidewalk or curbs within the pay limits for retrofit shown on the detail; pavement repairs; furnishing and placing detectable warnings, construction joints and removal and disposal of existing sidewalk and curb and gutter when required and for all materials labor, equipment, tools and incidentals necessary to complete the work.
2. Payment will be made under:

Pay Item	Pay Unit
Retrofit Existing Wheelchair Ramp	Each

08 30 00 SPECIAL PROVISIONS-ADDITIONAL

01. ADJUSTMENT TO MANHOLES AND VALVE BOXES W/RISER FITTINGS:

A. Description

1. Where approved by the Engineer, manhole and valve box adjustments may be made utilizing riser fittings. Use of fittings to make adjustments shall be in accordance with Section 858 of the *2006 Standard Specifications* and the provisions below.

B. Materials

1. East Jordan Iron Works (EJIW) “M1” & “M7” style solid riser manholes and EJIW catalog number 8500 1” & 1 ½” valve box riser D & T for 3 set screws or equivalent as approved by the Engineer. The “M1” & “M7” manhole style risers shall also meet the following criteria:
2. Material shall meet or exceed minimum requirements of ASTM A36 carbon steel.
3. Top and bottom rings shall have a continuous weld.
4. All “M1” style risers shall have a minimum height of adjustment equal to the manhole cover thickness plus ¼”.
5. Each riser shall be custom fabricated from measurements provided with each order. Required measurements include the following:
   a. Existing manhole cover diameter – top & bottom
   b. Existing manhole cover thickness
   c. Required height of adjustment
6. After fabrication, risers are to be coated with either a water based bituminous asphalt emulsion paint or BASF E-Coat w/charcoal black topcoat.

C. Construction Methods

1. Maximum height of adjustment for repaving projects shall be 6".
2. Height adjustments shall be available in ¼" increments.
3. During installation the contractor shall check for full bearing of lower frame section on existing casting.
4. Dimensions may vary to meet existing field conditions. Any change in dimensions shall be approved by the City.

D. Measurement and Payment

1. Payment will be made under:

Pay Item	Pay Unit
Manhole Riser Adjustment	Each
Valve Box Riser Adjustment	Each

02. CONCRETE LEVEL SPREADERS

A. Description

1. Where noted on the plans or as otherwise directed by the Engineer, install concrete level spreader w/ footing and swale to the specified length.

B. Construction Methods

1. *Concrete Level Spreader and swale* shall be installed to the grades and dimensions called for in the plans unless otherwise directed by the engineer. Level spreader forms shall be removed within 48 of concrete installation and shall be immediately backfilled and compacted to 95% of optimum density. Grading, seeded and matting of swale and installation required Rip-Rap or Sediment Control Stone shall be completed immediately following completion of backfill. Where stone is required place filter fabric between subgrade and stone.
2. Where specified on the plans or otherwise directed by the engineer, install by-pass swale around the level spreader and engineered filter strip on downstream side of level spreader concurrent with installation level spreader swale. Grading, seeding and matting for by-pass swale and engineered filter strip shall be paid under SEEDING AND MULCHING, section 1660 and MATTING FOR EROSION CONTROL, section 1631.

C. Measurement and Payment

1. *Concrete Level Spreader* will be measured and paid for as the actual linear feet of level spreader installed. Such price includes but is not limited to excavation and backfilling, forming, furnishing and installing concrete, grading seeding and matting of swale and grading for any required forebay, filter strip and by-pass channel. Any required stone for level spreader shall be paid under a separate line item.
2. *Rip-Rap Class _* will be measured and paid by the ton in accordance with section 876.
3. *Sediment Control Stone* will be measured and paid by the ton in accordance with section 1610.
4. *Filter Fabric for Drainage* will be measured and paid by the square yard in accordance with section 876.
5. Payment will be made under:

Pay Item	Pay Unit
CONC. LEVEL SPREADER	LF
RIP RAP, CL _	TN
SEDIMENT CONTROL STONE	TN
FILTER FABRIC FOR DRNG	SY