

FORSYTH COUNTY

BOARD OF COMMISSIONERS

MEETING DATE: OCTOBER 27, 2014 AGENDA ITEM NUMBER: 11

SUBJECT: RESOLUTION AUTHORIZING THE GRANT AND EXECUTION OF A TEMPORARY CONSTRUCTION EASEMENT TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ACROSS A PORTION OF WALKERTOWN COMMUNITY PARK TO CONSTRUCT SIDEWALK IMPROVEMENTS (PARKS AND RECREATION DEPARTMENT)

COUNTY MANAGER'S RECOMMENDATION OR COMMENTS: Recommend Approval

SUMMARY OF INFORMATION:

See attached

ATTACHMENTS: YES NO

SIGNATURE:


COUNTY MANAGER

DATE: October 22, 2014

**RESOLUTION AUTHORIZING THE GRANT AND EXECUTION
OF A TEMPORARY CONSTRUCTION EASEMENT TO THE NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION ACROSS A PORTION OF WALKERTOWN
COMMUNITY PARK TO CONSTRUCT SIDEWALK IMPROVEMENTS
(PARKS AND RECREATION DEPARTMENT)**

WHEREAS, the North Carolina Department of Transportation has requested a temporary construction easement across a portion of Walkertown Community Park for a period that will expire six (6) months after completion of the construction of sidewalk improvements, as more particularly described in the attached Temporary Easement; and

WHEREAS, Forsyth County is authorized pursuant to the provisions of N.C.G.S. 153A-176 and 160A-273 to grant an easement to the North Carolina Department of Transportation for sidewalk improvements, and the consideration and other terms of the proposed temporary construction easement are reasonable;

NOW, THEREFORE, BE IT RESOLVED that the Forsyth County Board of Commissioners hereby authorizes the grant of a temporary construction easement across a portion of Walkertown Community Park property as outlined in the attached Temporary Easement to allow reasonable ingress and egress to the North Carolina Department of Transportation for a period that will expire six (6) months after completion of the construction of sidewalk improvements and for the consideration outlined in the attached Temporary Easement.

BE IT FURTHER RESOLVED by the Forsyth County Board of Commissioners, that the Chairman or County Manager and Clerk to the Board are hereby authorized to execute, on behalf of Forsyth County, the attached Temporary Easement and any other necessary documents to grant a temporary construction easement to the North Carolina Department of Transportation across a portion of Walkertown Community Park to construct sidewalk improvements, subject to a pre-audit certificate thereon by the Chief Financial Officer, if applicable, and approval as to form and legality by the County Attorney.

Adopted this the 27th day of October 2014.

Revenue Stamps \$ No Taxable Consideration

TEMPORARY EASEMENT

THIS INSTRUMENT DRAWN BY Jennifer L. Kerrigan CHECKED
Blanco Tackabery & Matamoros, P.A. BY _____

Return to: Division Right of Way Agent - NCDOT

NORTH CAROLINA
COUNTY OF FORSYTH
TAX MAP AND LOT _____

T.I.P. No.: _____
WBS ELEMENT: 39745.3.19
TIP/PARCEL NUMBER: 6867-29-3145
ROUTE: _____

THIS EASEMENT, made and entered into this the _____ day of _____, 2014, by and between Forsyth County, a political subdivision of the State of North Carolina hereinafter referred to as the GRANTOR, and the Department of Transportation, an agency of the State of North Carolina, 1546 Mail Service Center, Raleigh, NC 27611, hereinafter referred to as the DEPARTMENT;

WITNESSETH

THAT the GRANTOR, for themselves, their heirs, successors, executors, and assigns, for and inconsideration of the sum of \$10.00 agreed to be paid by the DEPARTMENT to the GRANTOR, do hereby give, grant and convey unto the DEPARTMENT, its successors, and assigns, a temporary easement for highway purposes, subject to the terms and provisions hereinafter set forth, over a portion of real property described in deed(s) recorded in Book 1424, Page 263 and Book 1424, Page 264 in the office of the Register of Deeds of Forsyth County, said easement being described as follows:

A certain tract or parcel of land in Salem Chapel Township, Forsyth County, North Carolina, adjoining the lands of Darrow Road (State Road 2385), Martin Street, and being more particularly described as follows:

BEGINNING at a point in the eastern margin of the 60 foot right of way of Darrow Road (State Road 2385); said point being S 48° 46' 55" E 36.76 feet from Darrow Road Centerline Station 31+00 per the "Town of Walkertown, Darrow Road Sidewalk Improvements" project, Job number 09057A prepared by Alley, Williams, Carmen & King, Inc. (plans on file with the Town of Walkertown), running thence with said eastern margin of the 60 foot right of way of Darrow Road (State Road 2385) N 05° 26' 22" E 139.59 feet to a point; continuing thence with said eastern margin of the 60 foot right of way of Darrow Road (State Road 2385) and the eastern margin of the 60 foot right of way of Martin Street N 06° 29' 26" E 242.19 feet to a point; said point being distant N 76° 38' 18" E 31.90 feet from Martin Street Centerline Station 0+50 (per the aforementioned project); running thence across Grantor the following six calls and distances: S 03° 06' 48" E 168.55 feet to a point; thence S 10° 52' 11" W 63.60 feet to a point; thence S 07° 22' 07" W 85.71 feet to a point; thence S 32° 38' 00" W 32.74 feet to a point; thence S 06° 32' 58" W 36.72 feet to a point; thence N 87° 31' 25" W 4.94 feet to the POINT OF BEGINNING containing 6,435 square feet and being a Temporary Construction Easement that will expire six (6) months after completion of the project.

The foregoing description was obtained from a survey and map prepared by Alley, Williams, Carmen and King, Inc., Engineers, Architects and Surveyors, dated February 28, 2011, Job No. 09057A.

County Forsyth WBS Element _____ TIP/Parcel No. 6867-29-3145.00

Said easement widths, station numbers, survey lines and additional easement areas being delineated on that set of plans for State Highway Project #U-4741-LD on file in the office of the Department of Transportation in Raleigh, North Carolina, and also on a copy of said project plans which will be recorded, pursuant to N.C.G.S 136-19.4, in the Office of the Register of Deeds of Forsyth County, to which plans reference is hereby made for greater certainty of description of the easement areas herein conveyed and for no other purpose.

This DEED OF EASEMENT is subject to the following terms and provisions only: **NONE**

There are no conditions to this DEED OF EASEMENT not expressed herein.

TO HAVE AND TO HOLD said temporary easement for highway purposes, subject to the terms and provisions hereinabove set forth, unto the DEPARTMENT, its successors and assigns, and the GRANTOR, for themselves, their heirs, successors, executors and assigns, hereby warrant and covenant that they are the sole owners of the property; that they solely have the right to grant the said temporary easement; and that they will warrant and defend title to the same against the lawful claims of all persons whomsoever;

The Grantor acknowledges that the project plans for Project ##U-4741-LD have been made available to them. The Grantor further acknowledges that the consideration stated herein is full and just compensation pursuant to Article 9, Chapter 136 of the North Carolina General Statutes for the acquisition of the said interests and areas by the Department of Transportation and for any and all damages to the value of their remaining property; for any and all claims for interest and costs; for any and all damages caused by the acquisition for the construction of Department of Transportation Project ##U-4741-LD, Forsyth County, and for the past and future use of said areas by the Department of Transportation, its successors and assigns for all purposes for which the said Department is authorized by law to subject the same.

IN WITNESS WHEREOF, the GRANTOR has hereunto set its hand and seal (or if corporate, has caused the instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors) the day and year first above written.

Corporate Seal

FORSYTH COUNTY, a Political subdivision of
the State of North Carolina

BY: _____
NAME: _____
TITLE: _____

ATTEST: _____

ACCEPTED FOR THE DEPARTMENT OF TRANSPORTATION BY: _____

County Forsyth WBS Element 39754.3.19 TIP/Parcel No. 6867-29-3145.00

(Stamp/Seal)	STATE OF _____ COUNTY OF _____
	I, _____ a Notary Public for said County and State, certify that _____ personally came before me this day and acknowledged that he/she is the _____ of Forsyth County, a political subdivision of the State of North Carolina and that by the authority duly given and as the _____ of Forsyth county, the foregoing instrument was signed in its name by _____ as its _____, sealed with its corporate seal, and attested by _____ as its _____.
	Witness my hand and official stamp or seal, this the _____ day of _____, 2014
	My commission expires _____ Notary Public

The foregoing Certificate(s) of _____ is/are certified to be correct. This instrument and this certificate are duly registered on the _____ day of _____, 20____ in Book _____, Page _____ at _____ o'clock ____ M. REGISTER OF DEEDS FOR _____ COUNTY
BY: _____ Deputy/Assistant - Register of Deeds

TOWN OF WALKERTOWN SIDEWALK IMPROVEMENTS DARROW ROAD

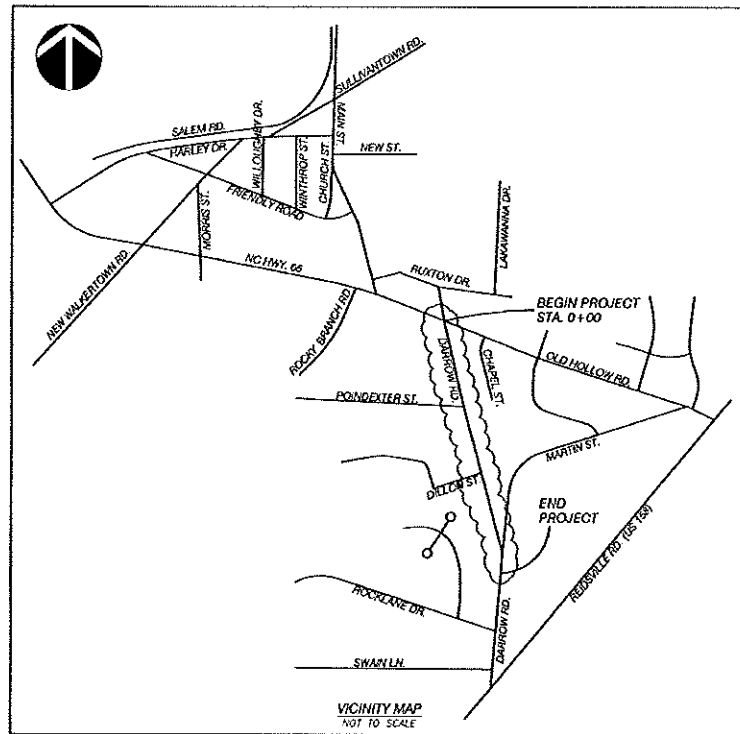
WALKERTOWN, NORTH CAROLINA

TOWN OF WALKERTOWN

5177 MAIN STREET (TOWN HALL)
WALKERTOWN, NORTH CAROLINA 27051
TELEPHONE: (336) 595-4212
FAX: (336) 595-6183

KENNETH "DOC" DAVIS - MAYOR
WALKERTOWN TOWN COUNCIL
WAYNE HESTER, MAYOR PROTEM
SARAH WELCH
PEGGY LEIGHT
RANDY MENDENHALL

TOWN OF WALKERTOWN ADMINISTRATION
RUSTY SAWYER - TOWN CLERK
SCOTT SNOW - TOWN MANAGER



INDEX OF SHEETS

- SHEET 1 OF 13 - COVER SHEET
- SHEET 2 OF 13 - DARROW ROAD SIDEWALK IMPROVEMENTS (SHEET 1)
- SHEET 3 OF 13 - DARROW ROAD SIDEWALK IMPROVEMENTS (SHEET 2)
- SHEET 4 OF 13 - DARROW ROAD SIDEWALK IMPROVEMENTS (SHEET 3)
- SHEET 5 OF 13 - DARROW ROAD CROSS SECTIONS
- SHEET 6 OF 13 - DARROW ROAD & MARTIN STREET CROSS SECTIONS
- SHEET 7 OF 13 - TRAFFIC CONTROL PLAN
- SHEET 8 OF 13 - CONSTRUCTION DETAILS
- SHEET 8A OF 13 - CONSTRUCTION DETAILS
- SHEET 9 OF 13 - CONSTRUCTION DETAILS
- SHEET 10 OF 13 - EROSION CONTROL DETAILS
- SHEET 11 OF 13 - EROSION CONTROL NOTES, CONSTRUCTION DETAILS & STORM DRAINAGE CALCULATIONS
- SHEET 12 OF 13 - TRAFFIC DETAILS
- SHEET 13 OF 13 - TRAFFIC DETAILS
- SHEET 13A OF 13 - TRAFFIC DETAILS

FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION

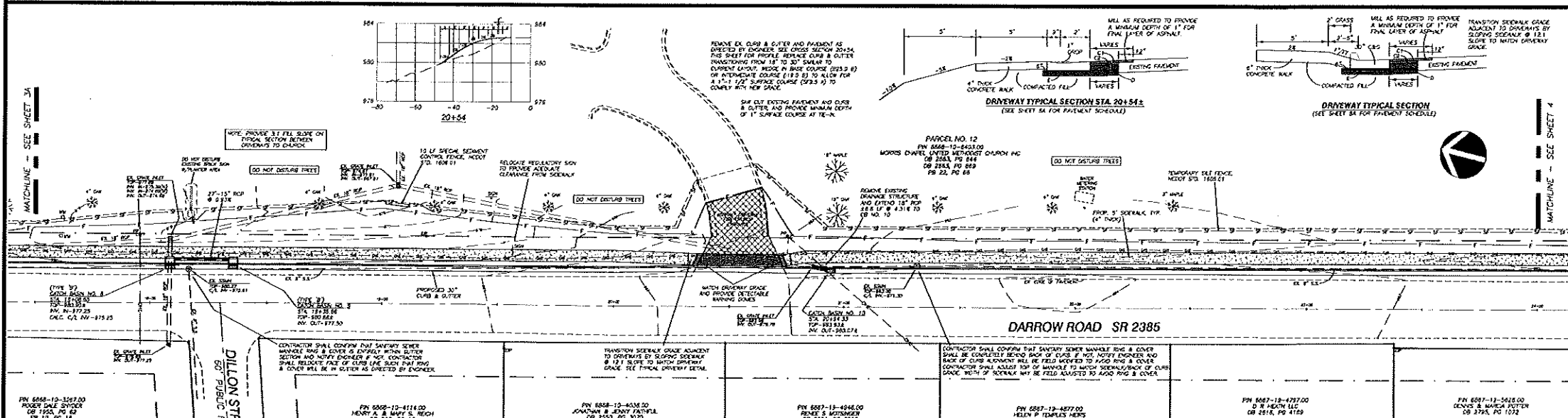
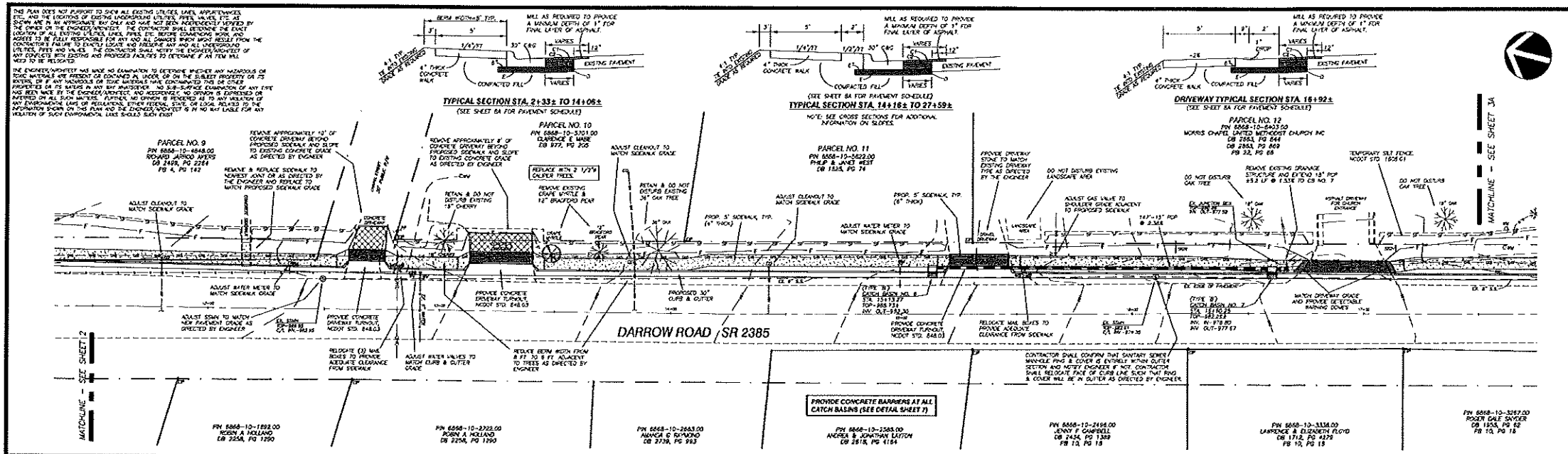


ALLEY, WILLIAMS, CARMEN, & KING, INC.
ENGINEERS & ARCHITECTS
740 CHAPEL HILL ROAD
BURLINGTON, NORTH CAROLINA 27215
TELEPHONE: 336-226-5534
FIRM'S ENGINEERING LICENSE NO. F-0203

DATE: FEBRUARY 28, 2011

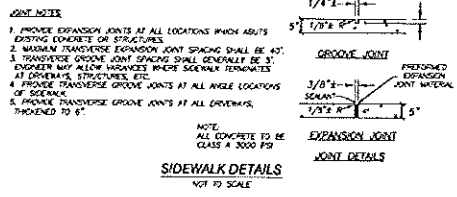
JOB NO. 09057

REV. 3/24/14 ADDED SHEET 13A
REV. 4/29/11 PER NCDOT COMMENTS



LEGEND

○	CP	⊗	CLEAN OUT
⊗	CALCULATED POINT	□	CURB INLET
⊗	LAMP POST	□	GRATE INLET
⊗	JUNCTION MANHOLE	□	YARD INLET
⊗	POWER POLE	⊗	MONITORING WELL
⊗	LIGHT POLE	⊗	LANDSCAPE LIGHT
⊗	WATER METER	⊗	BOLLARDS
⊗	WATER VALVE	⊗	GAS TESTING STATION
⊗	FIRE HYDRANT	⊗	TELEPHONE PEDESTAL



SEE SHEET 11 FOR CONSTRUCTION SEQUENCE

TOTAL DISTURBED AREA - 1.8 ACRES ±

EROSION CONTROL NOTES:

1. PROVIDE ROCK INLET SEDIMENT TRAP TYPE D AROUND ALL DRAINAGE STRUCTURES.
2. PROVIDE INLET PROTECTION FROM TYPE D DEVICES INSIDE CATCH BASINS.
3. PROVIDE RATTLES AROUND CATCH BASINS.
4. SEE EROSION CONTROL PLAN DETAILS FOR ADDITIONAL INFORMATION.

SCALE: 1" = 20'

FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION



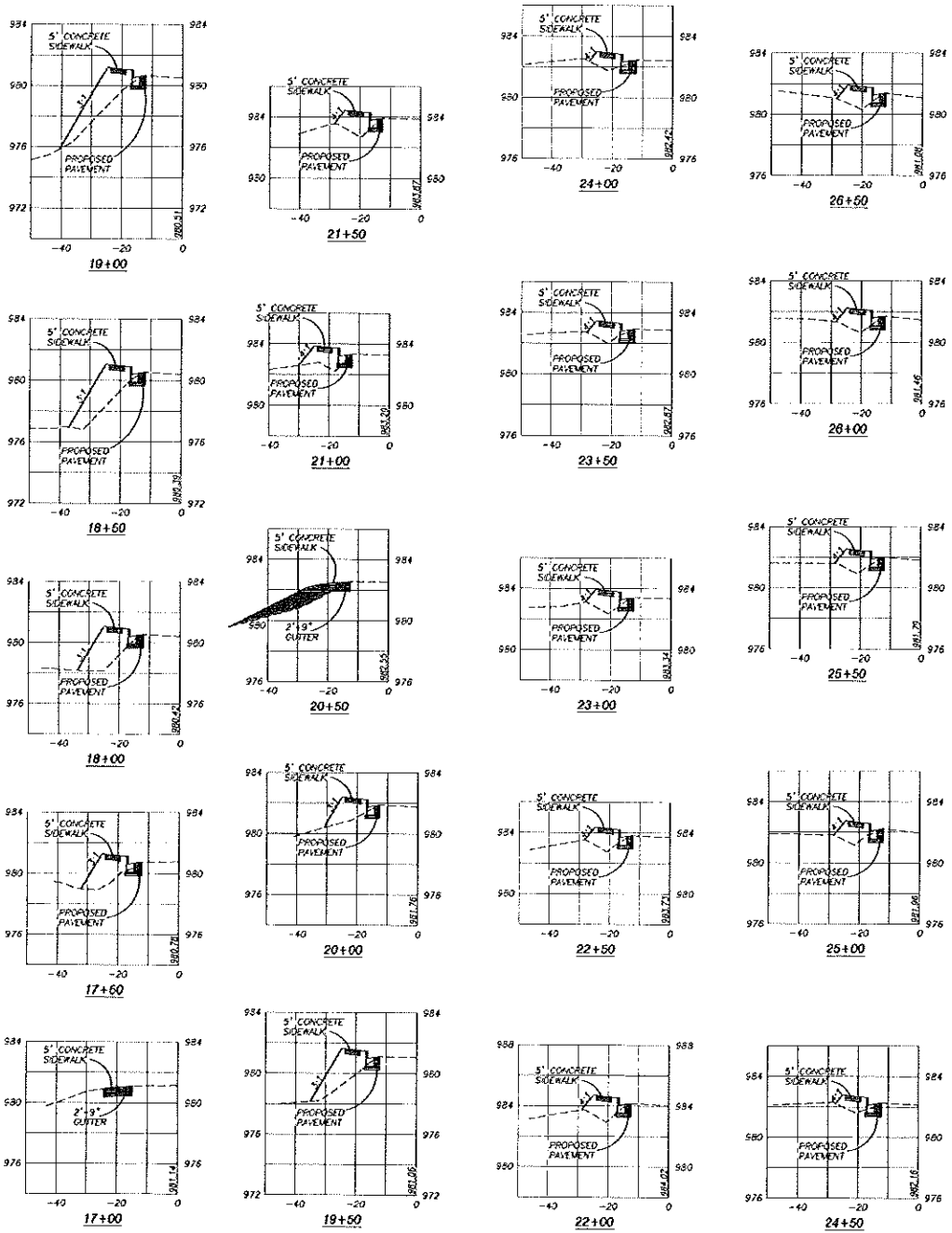
PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSYTH COUNTY, NC

alley, williams, carmen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road
burlington, n.c. 27215
p.o. box 1179
336/226-5534

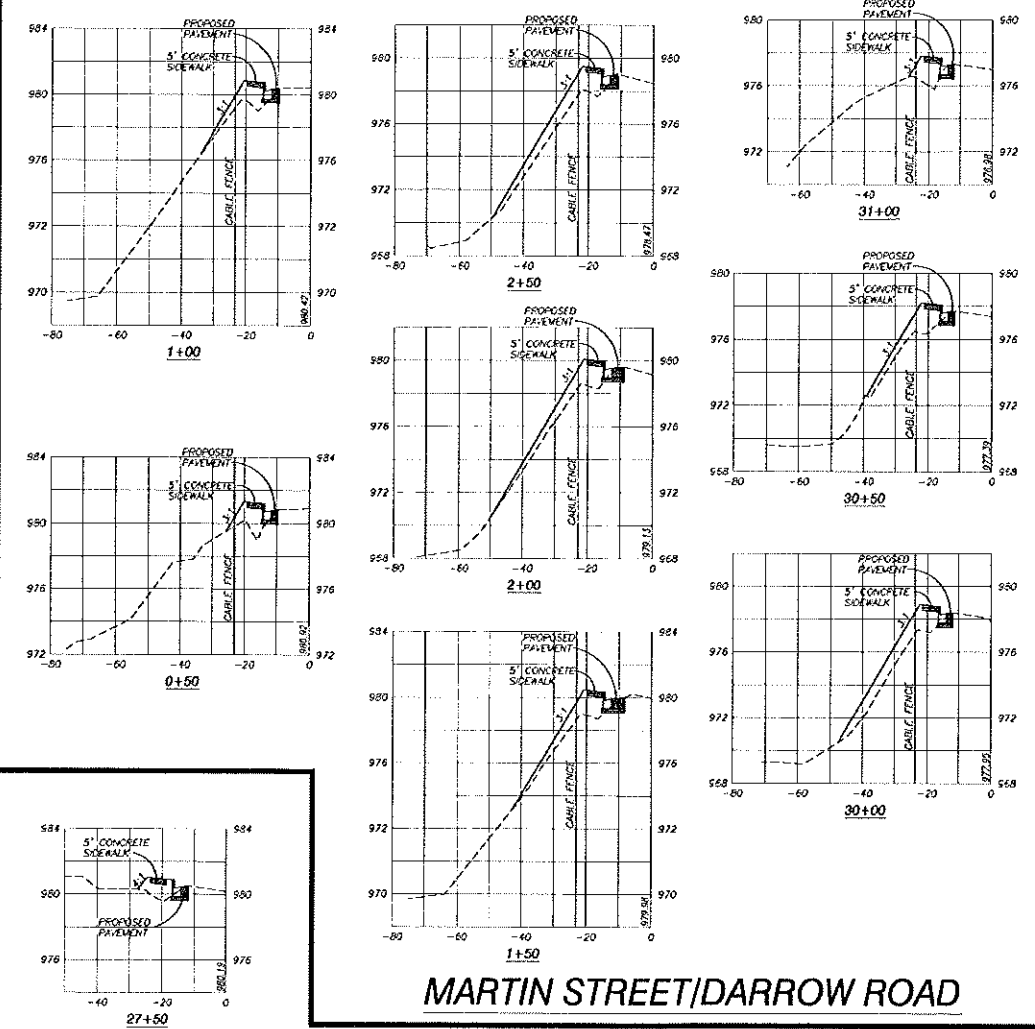
DARROW ROAD SIDEWALK IMPROVEMENTS
(FROM OLD HOLLOW ROAD TO 8300 SOUTH OF MARTIN STREET)

DATE: 3/15/08
DRAWN BY: MCF
CHECKED BY: MCF

JOB NO.: 090574
DATE MADE: 3/20/08
SHEET NO.: 3



DARROW ROAD



MARTIN STREET/DARROW ROAD

EARTHWORK SUMMARY

STATION	STATION	GRAVEL RATE (CY)	BOTTOM ELEVATION (CY)	15% SURFACE (CY)	TOTAL BOTTOM ELEVATION (CY)
31+25	30+00	150	22.5	11.7	11.7
30+00	28+75	150	22.5	11.7	11.7
ENGINEER'S ESTIMATE					2300.0

**FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION**

SCALES
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 4'



PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSYTH COUNTY, NC

aw
ck
ally, williams, carmen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road p. o. box 1179
burlington, n.c. 27215 336/226-5534

DATE: 2/28/11
DRAWN BY: MCF
CHECKED BY: MCF

JOB NO.: 09067A
SHEET NO.: 6

REV: 4/28/11 PER NCDOT COMMENTS

1. The information on this drawing was prepared by the engineer or architect named above and is not to be used for any other project without the written consent of the engineer or architect.

T:\2000\6057 Town of Walkertown\Drawings\Drawings\DETAILS\DWG 840.01.dwg, 1:1

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.02 MAY BE USED IN LIEU OF NCDOT STD. 840.01

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.14 MAY BE USED IN LIEU OF NCDOT STD. 840.15

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.22 MAY BE USED IN LIEU OF NCDOT STD. 840.23

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.01 MAY BE USED IN LIEU OF NCDOT STD. 840.02

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.14 MAY BE USED IN LIEU OF NCDOT STD. 840.15

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

ENGLISH STANDARD DRAWING FOR
BRICK CATCH BASIN
 12" THRU 36" PIPE

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.54 MAY BE USED IN LIEU OF NCDOT STD. 840.55

ENGLISH STANDARD DRAWING FOR
FRAMES, GRATES, AND HOODS
 FOR USE ON STANDARD CATCH BASIN

ENGLISH STANDARD DRAWING FOR
FRAMES, GRATES, AND HOODS
 FOR USE ON STANDARD CATCH BASIN

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.03 MAY BE USED IN LIEU OF NCDOT STD. 840.04

ENGLISH STANDARD DRAWING FOR
FRAMES, GRATES, AND HOODS
 FOR USE ON STANDARD CATCH BASIN

ENGLISH STANDARD DRAWING FOR
FRAMES, GRATES, AND HOODS
 FOR USE ON STANDARD CATCH BASIN

SCALE: 1" = 1'-0"

NOTE: NCDOT STD. 840.03 MAY BE USED IN LIEU OF NCDOT STD. 840.04

FINAL DRAWINGS
 NOT RELEASED FOR CONSTRUCTION



PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
 WALKERTOWN, NORTH CAROLINA
 SALEM CHAPEL TOWNSHIP, FORSTH COUNTY, NC

atley, williams, cormen & king, inc.
 ENGINEERS, ARCHITECTS & SURVEYORS
 740 chapel hill road
 burlington, n.c. 27215

DATE: 2/28/11
 DRAWN BY: WDF
 CHECKED BY: MDM

CONSTRUCTION
 DETAILS

JOB NO: 09057
 SHEET NO: 8

REV. 3/11/11 - 2012 STANDARDS
 REV. 4/26/11 PER NCDOT COMMENTS

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY CONSTRUCTION

ENGLISH STANDARD DRAWING FOR
CONCRETE BASE PAD
FOR DRAINAGE STRUCTURES

TABLES OF QUANTITIES FOR PIPE SET IN PAD

NO.	CONCRETE		C.L.P.		TOTAL	
	CU YD	SQ YD	CU YD	SQ YD	CU YD	SQ YD
1	1.17	0.75	0.00	0.00	1.17	0.75
2	1.17	0.75	0.00	0.00	1.17	0.75
3	1.17	0.75	0.00	0.00	1.17	0.75
4	1.17	0.75	0.00	0.00	1.17	0.75
5	1.17	0.75	0.00	0.00	1.17	0.75
6	1.17	0.75	0.00	0.00	1.17	0.75
7	1.17	0.75	0.00	0.00	1.17	0.75
8	1.17	0.75	0.00	0.00	1.17	0.75
9	1.17	0.75	0.00	0.00	1.17	0.75
10	1.17	0.75	0.00	0.00	1.17	0.75
11	1.17	0.75	0.00	0.00	1.17	0.75
12	1.17	0.75	0.00	0.00	1.17	0.75
13	1.17	0.75	0.00	0.00	1.17	0.75
14	1.17	0.75	0.00	0.00	1.17	0.75
15	1.17	0.75	0.00	0.00	1.17	0.75
16	1.17	0.75	0.00	0.00	1.17	0.75
17	1.17	0.75	0.00	0.00	1.17	0.75
18	1.17	0.75	0.00	0.00	1.17	0.75
19	1.17	0.75	0.00	0.00	1.17	0.75
20	1.17	0.75	0.00	0.00	1.17	0.75

GENERAL NOTES:
1. USE THIS STANDARD WITH ALL DRAINAGE STRUCTURES.
2. USE REINFORCING CONCRETE FOR SET IN BASE PAD.

SCALE: 1" = 1'-0"

MILL & PATCH METHOD
SECTION A-A

GENERAL NOTES:
1. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
2. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
3. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
4. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
5. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
6. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
7. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
8. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
9. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.
10. MILL & PATCH METHOD SHALL BE USED FOR ALL DRAINAGE STRUCTURES.

- GENERAL NOTES
- ENGINEER REFERS TO CONSULTING ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
 - RESIDENT ENGINEER OR DISTRICT ENGINEER REFERS TO NCDOT ENGINEER.
 - CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT AVAILABLE TO MEET FIELD CONDITIONS. ENGINEER WILL DIRECT CONTRACTOR TO MAKE MAJOR MODIFICATIONS AS NECESSARY TO MEET FIELD CONDITIONS.
 - ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT STANDARD SPECIFICATIONS AND REQUIREMENTS, INCLUDING BUT NOT LIMITED TO ALL THE FOLLOWING:
 - CONCRETE - ALL NCDOT FORMS SHALL BE DELIVERED WITH CONCRETE. ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH NCDOT CONSTRUCTION MANUAL REQUIREMENTS FOR AN ENTRAINMENT AND SLUMP. CYLINDERS SHALL BE PREPARED AND TESTED PER NCDOT REQUIREMENTS AT 7 AND 28 DAYS.
 - ALL MATERIALS SHALL BE RECEIVED IN ACCORDANCE WITH NCDOT REQUIREMENTS AND SUPPORTING DOCUMENTATION SHALL ACCOMPANY ALL MATERIALS TO CONFIRM MATERIALS ARE NCDOT COMPLIANT.
 - THE CONTRACTOR SHALL COMPLY WITH ANY AND ALL CONDITIONS STATED IN THE APPROVED ENCROACHMENT AGREEMENT FOR THE PROJECT.
 - PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING TO THE ENGINEER:
 - A NARRATIVE.
 - PROJECT PICTURES AND VIDEO OF EXISTING CONDITIONS, PARTICULAR ATTENTION SHALL BE GIVEN TO DAMAGED AREAS WITHIN THE PROJECT LIMITS. ITEMS NOT DOCUMENTED AND AN ISSUE ARISES DURING CONSTRUCTION SHALL BE REPLACED/REPAIRED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
 - SCHEDULE A PRECONSTRUCTION CONFERENCE WITH OWNER, ENGINEER, DISTRICT/RESIDENT ENGINEER, PHMA REPRESENTATIVE AND OTHERS AS DETERMINED BY ENGINEER AND CONTRACTOR.
 - ENGINEER AND DISTRICT/RESIDENT ENGINEER SHALL BE NOTIFIED BY CONTRACTOR A MINIMUM OF 24 HOURS IN ADVANCE OF ANY ERECTION. CONTRACTOR SHALL PREPARE AND PROVIDE A PRE-BLAST SURVEY OF THE ADJOINING STRUCTURES TO THE ENGINEER (SEE DIVISION 2, PROJECT SPECIAL PROVISIONS).
 - STOP SIGNS, MAIL BOXES, STREET SIGNS, REGULATORY SIGNS, ETC. REMOVED DURING COURSE OF CONSTRUCTION SHALL BE REPLACED BY THE END OF THE WORK DAY. TEMPORARY STOP SIGNS SHALL BE PROVIDED UNLESS FLAGGERS OR OTHER TRAFFIC CONTROL DEVICES ARE IN PLACE.
 - SIDEWALK CONSTRUCTION THROUGH DRIVEWAYS SHALL BE PHASED TO ALLOW IMPASS/EGRESS TO ADJOINING PROPERTY OWNER. PHASING WILL NOT BE REQUIRED IF ADJOINING PROPERTY HAS MORE THAN ONE DRIVEWAY ACCESS OR IF ADJOINING OWNER AGREES IN WRITING TO WAIVE IMPASS/EGRESS RIGHTS FOR A PERIOD OF SEVEN DAYS. THEN SIDEWALK CONSTRUCTION PHASING WILL NOT BE REQUIRED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT PROPERTY OWNERS/TENANTS OF EXISTING RESIDENCES TO INFORM THEM OF DRIVEWAY CLOSURES AND OTHER ISSUES AS A RESULT OF CONSTRUCTION ACTIVITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS OR ISSUES WITH PROPERTY OWNERS/TENANTS.

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY CONSTRUCTION

ENGLISH STANDARD DRAWING FOR
DRAINAGE STRUCTURE STEPS

GENERAL NOTES:
1. USE THIS STANDARD WITH ALL DRAINAGE STRUCTURES.
2. USE REINFORCING CONCRETE FOR SET IN BASE PAD.

SCALE: 1" = 1'-0"

CATCH BASIN TYPE 'B' IS MODIFIED VERSION OF THE NCDOT STD. 840.01 CATCH BASIN. SEE STANDARD DETAIL FOR TYPICAL MEASUREMENTS OTHER THAN THOSE NOTED HERE.

PAVEMENT SCHEDULE

- PROPOSED APPROXIMATE 1 1/2" ASPHALT SURFACE COURSE, TYPE SF 9.5A AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
- PROPOSED APPROXIMATE 1 1/2" ASPHALT SURFACE COURSE, TYPE SF 9.5A AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
- PROPOSED APPROXIMATE 4" ASPHALT INTERMEDIATE COURSE, TYPE I 11.0B AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD
- PROPOSED APPROXIMATE 7" ASPHALT BASE COURSE, TYPE B 23.0B AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD

CATCH BASIN TYPE 'B'

* DIMENSION CORRESPONDS TO "B" DIMENSION 6" PIPE DIAMETER. SEE STD. 840.01 FOR ADDITIONAL INFORMATION.

FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION

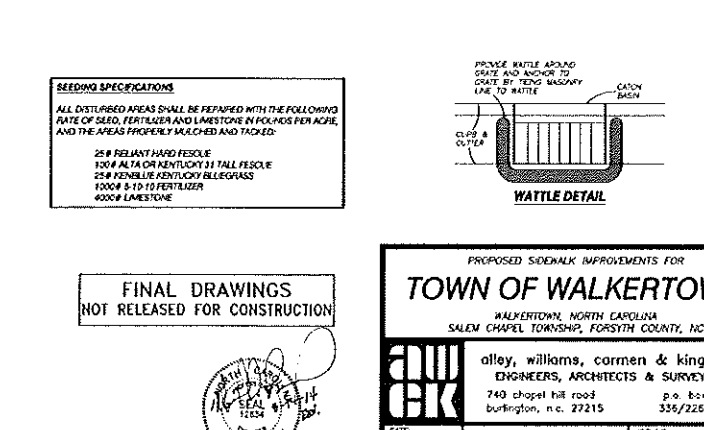
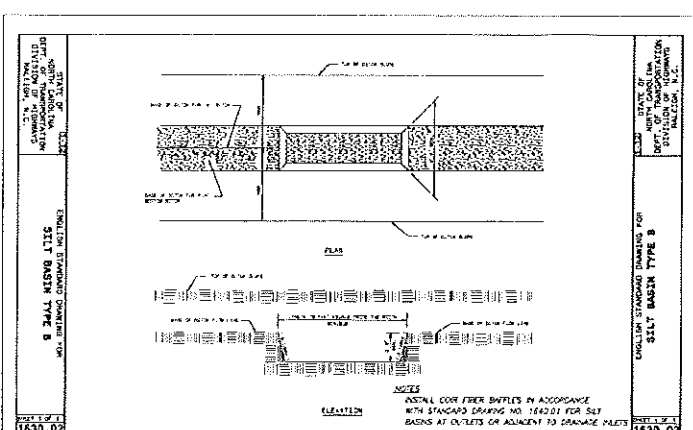
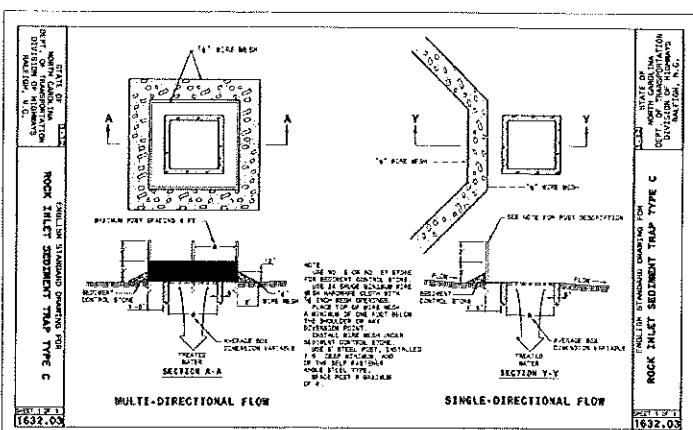
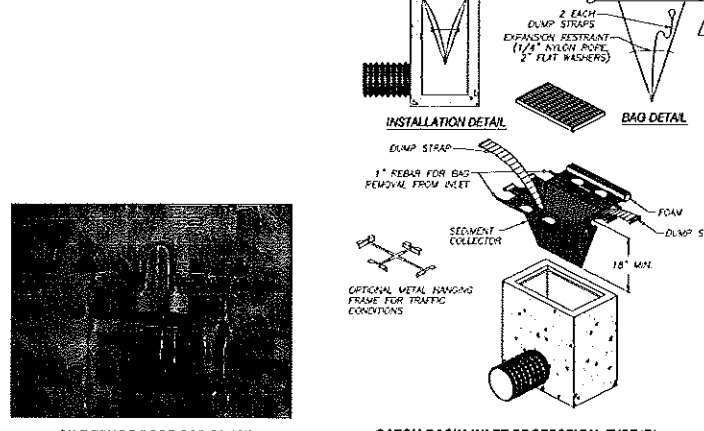
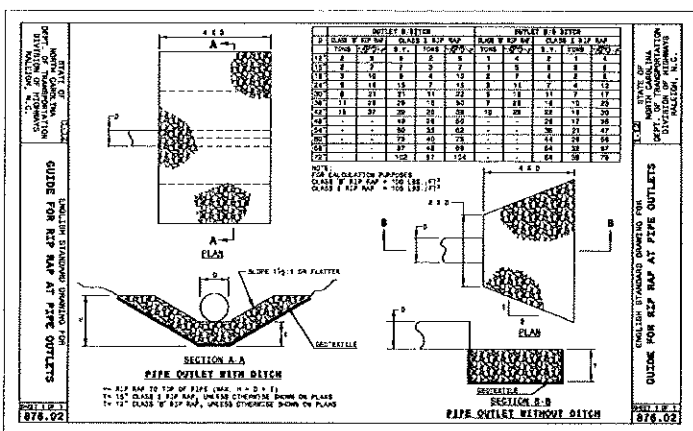
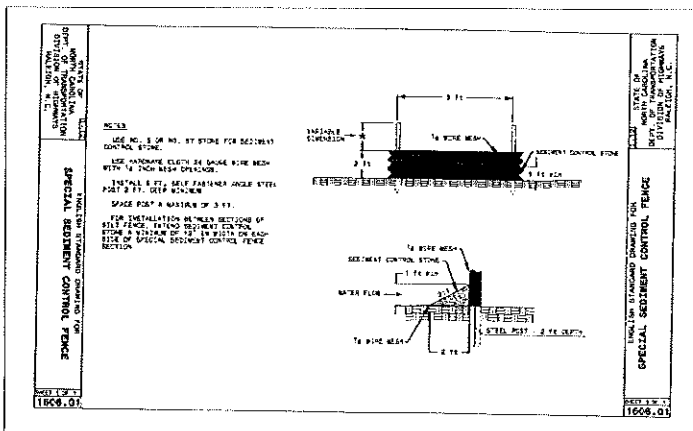
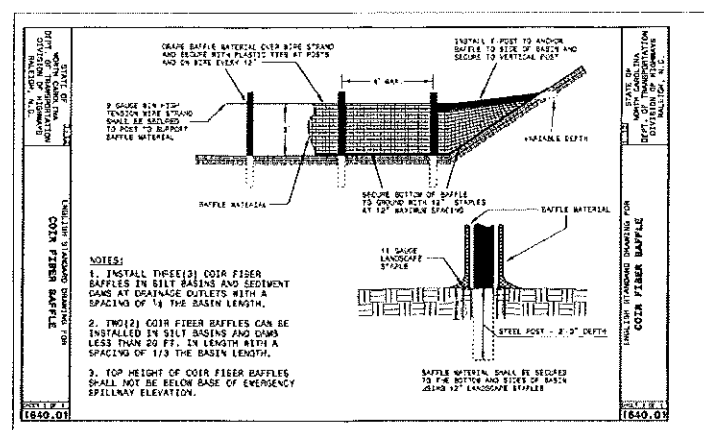
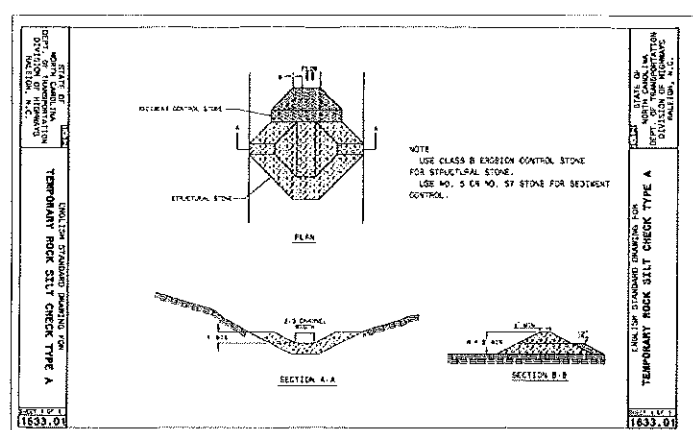
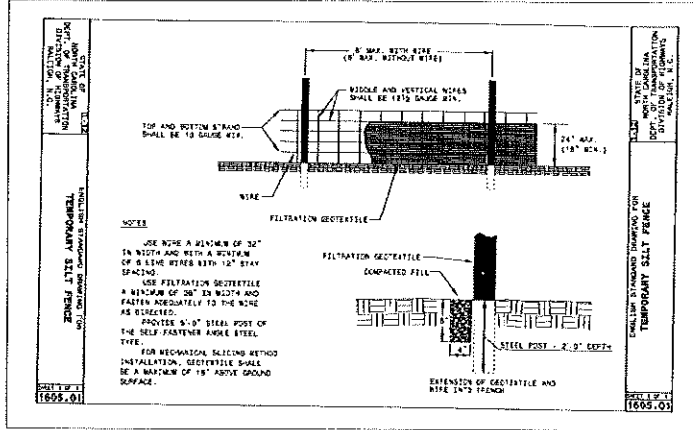


PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSTH COUNTY, NC

alley, williams, cormen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road p.o. box 1179
burlington, n.c. 27215 336/226-5534

DATE: 2/28/18 JOB NO: 09097
DRAWN BY: MCF SHEET NO: SEE SHEET CADDREBARON DETAIL
CHECKED BY: MCF CONSTRUCTION DETAILS
SCALE: 1" = 1'-0" 1/2

REV. 3/14/14 - 2012 STANDARDS
REV. 4/28/11 PER NCDOT COMMENTS



SEEDING SPECIFICATIONS

ALL DISTURBED AREAS SHALL BE PREPARED WITH THE FOLLOWING RATE OF SEED, FERTILIZER AND LIMESTONE IN POUNDS PER ACRE, AND THE AREAS PROPERLY MULCHED AND TACKED.

25# RELIANT HARD RESCUE
150# ALTA OR KENTUCKY 31 TALL RESCUE
25# KENNELLY KENTUCKY BLUEGRASS
1000# 8-10-10 FERTILIZER
4000# LIMESTONE

FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION



PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSYTH COUNTY, NC

alley, williams, cormen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road
burlington, n.c. 27215

p.o. box 1179
356/226-5534

DATE: 2/28/11
DRAWN BY: MDR
CHECKED BY: MDR

JOB NO: 09057
LINE AND REVISION DETAILS
SHEET NO: 10
OF 11

EROSION CONTROL DETAILS

Storm Sewer Computations

From	To	Drainage Area (Ac)	Runoff Coeff	C ₁ (ft)	C ₂ (ft)	Time of Conc (min)	Design Storm (in)	Peak Intensity (ft/hr)	Total Runoff (cfs)	Pipe Diameter (in)	Manning n ² Value	Pipe Length (ft)	Slope of Pipe (ft/ft)	Full Capacity (cfs)	Full Flow Velocity (ft/s)	
CB 1	FES	0.20	0.25	0.35	0.15	0.15	5.00	10	6.82	12	0.013	89	0.012	3.96	5.03	4.57
CB 2	AH 2A	0.20	0.25	0.35	0.21	0.21	5.00	13	6.80	14.5	0.013	8	0.0150	6.48	5.28	4.81
AH 2A	TEE 3A	0.20	0.25	0.35	0.06	0.21	5.00	13	6.80	14.5	0.013	258.0	0.0068	5.22	4.25	4.31
CB 3	TEE 3A	0.16	0.25	0.35	0.15	0.15	5.00	13	6.80	10.3	0.013	8	0.0150	6.48	5.28	4.81
TEE 3A	TEE 4A	0.02	0.25	0.35	0.00	0.20	5.00	13	6.80	2.45	0.013	29.2	0.0067	5.20	4.30	4.22
CB 4	TEE 4A	0.06	0.25	0.35	0.02	0.08	5.00	13	6.80	3.22	0.013	8	0.0150	6.48	5.28	4.81
TEE 4A	TEE 5A	0.03	0.43	0.54	0.00	0.41	5.00	13	6.80	2.78	0.013	47.2	0.0067	5.20	4.30	4.21
CB 5	TEE 5A	0.06	0.25	0.35	0.02	0.06	5.00	13	6.80	3.22	0.013	8	0.0150	6.48	5.28	4.81
TEE 5A	FES	0.02	0.40	0.55	0.00	0.40	5.00	13	6.80	3.50	0.013	32	0.0128	6.64	5.41	5.30
CB 6	CB 7	0.33	0.33	0.35	0.26	0.26	5.00	13	6.80	1.80	0.013	147	0.0218	9.96	8.14	6.14
CB 7	EX RFP	0.10	0.43	0.58	0.10	0.36	5.00	13	6.80	2.44	0.013	5	0.0150	10.00	7.37	6.63
CB 9	CB 3	3.18	3.18	0.34	0.11	0.17	5.00	13	6.82	1.76	0.013	27	0.0063	6.25	5.09	3.82
CB 10	EX RFP	0.01	0.07	0.36	0.07	0.07	5.00	13	6.80	0.48	0.013	7	0.0431	21.86	12.37	4.93
CB 11	SEMD 11A	0.11	0.15	0.62	0.14	0.14	5.00	13	6.82	3.97	0.013	13.6	0.0172	5.50	4.48	3.38
SEMD 11A	TEE 12A	0.00	0.15	0.62	0.14	0.14	5.00	13	6.82	3.97	0.013	13.6	0.0172	5.50	4.48	3.38
CB 13	TEE 12A	0.00	0.15	0.62	0.14	0.14	5.00	13	6.82	3.97	0.013	13.6	0.0172	5.50	4.48	3.38
TEE 12A	CB 12	0.00	0.26	0.39	0.32	0.32	5.00	13	6.82	2.18	0.013	10.7	0.0054	4.73	3.65	3.23
CB 12	EX 14	0.18	0.84	0.96	0.17	0.49	5.00	13	6.80	3.95	0.013	30	0.0170	6.54	5.03	3.74
EX 14	EX FO	0.04	0.36	0.63	0.03	0.52	5.00	13	6.80	3.52	0.013	60	0.0049	7.37	4.17	4.11
EX PI	DOLLAR	0.11	0.15	0.62	0.08	0.08	5.00	13	6.80	0.56	0.013	40	0.0700	9.48	5.28	3.72
DOLLAR	CB 15	0.00	0.15	0.62	0.08	0.08	5.00	13	6.80	0.56	0.013	178	0.0151	7.96	6.48	3.73
CB 15	CB 18	0.13	0.13	0.34	0.12	0.12	5.00	13	6.80	1.34	0.013	184	0.0096	6.14	5.01	3.99
CB 18	EX PI	0.13	0.40	0.54	0.12	0.32	5.00	13	6.82	2.18	0.013	11	0.0128	7.30	5.97	3.18

GENERAL EROSION CONTROL NOTES:

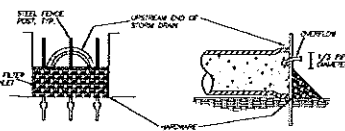
1. ALL EROSION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MDOT & MCDEN - LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL MANUAL REQUIREMENTS.
2. ALL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 21 CALENDAR DAYS OF COMPLETION OF GRADING WORK.
3. REMOVE ANY MUD OR SOIL MATERIALS TRACKED ONTO ADJACENT ROADS IMMEDIATELY.
4. PROVIDE ADDITIONAL MEASURES AS NEEDED TO DIRECT RUNOFF TO EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
5. ASPECT ALL EROSION CONTROL MEASURES ON A WEEKLY BASIS AND WITHIN 24 HOURS OF A 0.5 IN. RAINFALL EVENT WITHIN A 24 HOUR PERIOD. CONTRACTOR SHALL REPAIR OR PROVIDE ANY REQUIRED MAINTENANCE NOTED DURING INSPECTION AND PRIOR TO CONTINUING WITH ANY CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL PROVIDE A RAIN GAUGE ON SITE AND SHALL COMPLETE 'STORMWATER INSPECTIONS FOR GENERAL PERMIT NCD010000 - LAND DISTURBING ACTIVITIES' FORM ON A WEEKLY BASIS. PROVIDE COPIES OF REPORT TO OWNER/ENGINEER ON A MONTHLY BASIS.
7. ANY WASTE MATERIAL DISPOSED OF OFF-SITE MUST BE DISPOSED OF TO A SITE APPROVED BY MDOT/PAI.
8. ANY BORROW MATERIAL SHALL BE OBTAINED FROM AN MCDEN/PAI APPROVED SITE.
9. PROVIDE COPIES OF APPROVAL LETTERS FOR WASTE BORROW SITES TO ENGINEER PRIOR TO DISPOSING OF OR OBTAINING MATERIAL FROM SITES.
10. CONTRACTOR SHALL PROVIDE ENGINEER WITH A COPY OF THE CERTIFICATION OF ALL EMPLOYEES MAINTAINING AND INSTALLING EROSION CONTROL DEVICES.
11. PROVIDE PLYWOOD PIPE INLET PROTECTION TO OPEN PIPES SUSCEPTIBLE TO FLOW AT END OF WORK DAY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
12. REMOVE SEDIMENT CONTAINED IN BASINS FROM THE 1" INLET PROTECTION DEVICES AFTER EACH RAINFALL EVENT.
13. CONTRACTOR SHALL PROVIDE EROSION CONTROL STONE AS DIRECTED BY ENGINEER AT INLET OF ALL EXISTING CULVERT PIPES IN WHICH AREA UPSTREAM OF CULVERT PIPE IS DISTURBED.

CONSTRUCTION SEQUENCE

1. HOLD PRECONSTRUCTION CONFERENCE.
2. INSTALL STATIONARY WORK ZONE SIGNS.
3. INSTALL TEMPORARY SILT BASIN, TYPE B INCLUDING SEDIMENT CONTROL AND CLEAN STONE AT OUTLET OF BASIN, DOWNSTREAM OF CB No. 1 AND No. 5.
4. INSTALL TEMPORARY SILT FENCE AND SPECIAL SEDIMENT CONTROL FENCE AS SHOWN ON DRAWINGS. NOTE: SILT FENCE INSTALLATION MAY BE PHASED. HOWEVER, FENCE SHALL BE INSTALLED PRIOR TO BEGINNING ANY WORK WITHIN THE DRAINAGE BASIN WHERE THE SILT FENCE IS PROPOSED.
- IN AREAS BETWEEN STA. 1+80 TO STA. 2+180:
 5. STRIP TOPSOIL AND VEGETATION FROM EDGE OF PAVEMENT TO C.F. LINE. MATERIAL MAY BE STOCKPILED ADJACENT TO SILT FENCE AND MAY BE USED IN FILL SLOPE BEYOND WIDTH OF BASE. INSTALL EROSION CONTROL STONE AT INLET OF ALL EXISTING CULVERT PIPES.
 6. CONTRACTOR SHALL PROVIDE SLOPE PROTECTION AND EROSION CONTROL MEASURES UNACCEPTABLE BY ENGINEER. USE BORROW MATERIAL OR AOC STONE BASE TO STABILIZE AREAS AS DIRECTED BY THE ENGINEER.
 7. GRADE AREA BETWEEN EXISTING PAVEMENT TO THE SHOULDER POINT AND FILL SLOPE. PROVIDE POSITIVE DRAINAGE AWAY FROM EDGE OF EXISTING PAVEMENT AT ALL TIMES (MINIMUM SLOPE OF 1/4" PER FT.). PROVIDE MATERIAL ADJACENT TO THE EDGE OF EXISTING PAVEMENT TO PREVENT EDGE DROP OFF (SEE TRAFFIC CONTROL PLAN NOTES).
 8. INSTALL STORM DRAINAGE PIPING AND CONSTRUCT DRAINAGE STRUCTURES.
 - A. PROVIDE PIPE FILTER INLET PROTECTION WHERE OPEN PIPE IS SUSCEPTIBLE TO FLOW AT END OF EACH DAYS WORK.
 - B. INSTALL ROCK INLET SEDIMENT TRAP, TYPE C DEVICES AROUND DRAINAGE STRUCTURES UPON COMPLETION OF BACKFILL.
 - C. SET FRAME AND GRATES FOR CATCH BASINS AND DROP INLETS.
 - D. PROVIDE TEMPORARY DRAINAGE SWALE BETWEEN EDGE OF PAVEMENT AND TOP OF SLOPE TO DIRECT RUNOFF INTO CATCH BASINS.
 9. IN AREAS WHERE STORM DRAINAGE HAS BEEN INSTALLED, PROTECT AREAS TO CORRECT SUBGRADE IS STABLE. IF NOT, UNDERCUT AS DIRECTED BY THE ENGINEER AND STABILIZE WITH GUTTER MATERIAL, OR AOC STONE BASE AS DIRECTED BY THE ENGINEER.
 10. EXCAVATE FROM EDGE OF PAVEMENT TO 8 INCHES MINIMUM BEYOND BACK OF CURB. PLACE 3 INCHES BASE COURSE (B). REMOVE TYPE D DEVICES IMMEDIATELY PRIOR TO BASE COURSE PLACEMENT. RETAIN TYPE D DEVICES AFTER BASE COURSE PLACEMENT. PROVIDE SUIABLE MATERIAL UP TO EDGE OF PAVEMENT AND SLOPE 6:1 FROM EDGE OF PAVEMENT (SEE TRAFFIC CONTROL PLAN NOTES).
 11. INSTALL FRAMES, GRATES & HOODS FOR CATCH BASINS AND INSTALL CURB & GUTTER. PLACE REMOVED MATERIAL FROM CURB & GUTTER INSTALLATION BEHIND CURB & GUTTER.
 12. BACKFILL BEHIND CURB & GUTTER TO STABILIZE C&G AND CONTINUE TO PROVIDE POSITIVE DRAINAGE AWAY FROM C&G TOWARDS SILT FENCE.
 13. EXCAVATE STRIP BETWEEN EXISTING PAVEMENT AND EDGE OF GUTTER. FLAGGING MATERIAL BEHIND C&G FOR PLACEMENT IN FILL BEYOND PROPOSED SIDEWALK TO BE INSTALLED. PLACE INTERMEDIATE COURSE (D) AND FIRST SURFACE COURSE (E) BETWEEN EXISTING EDGE OF PAVEMENT AND CURB & GUTTER (TOP OF BASE COURSE ELEVATION SHOULD BE APPROXIMATELY 1 1/2 INCHES BELOW EDGE OF PAVEMENT).
 - GO TO ITEM NO. 23.
- IN AREAS ADJACENT TO FILL SLOPE, MARTIN ST. STA. 0+00 TO DARROW ROAD STA. 3+420:
 14. INSTALL STORM DRAINAGE PIPING AND CONSTRUCT DRAINAGE STRUCTURES.
 - A. PROVIDE PIPE FILTER INLET PROTECTION WHERE OPEN PIPE IS SUSCEPTIBLE TO FLOW AT END OF EACH DAYS WORK.
 - B. INSTALL ROCK INLET SEDIMENT TRAP, TYPE C DEVICES AROUND DRAINAGE STRUCTURES UPON COMPLETION OF BACKFILL.
 - C. SET FRAME AND GRATES FOR CATCH BASINS AND DROP INLETS.
 - D. PROVIDE TEMPORARY DRAINAGE SWALE BETWEEN EDGE OF PAVEMENT AND TOP OF SLOPE TO DIRECT RUNOFF INTO CATCH BASINS.
 15. CONSTRUCT EXTEND FILL SLOPE PER CROSS SECTION DRAWINGS.
 16. PROTECT SUBGRADE AND UNDERCUT ANY AREAS DEEMED UNACCEPTABLE BY ENGINEER. USE BORROW MATERIAL OR AOC STONE BASE TO STABILIZE AREAS AS DIRECTED BY THE ENGINEER.
 17. GRADE AREA BETWEEN EXISTING PAVEMENT TO THE SHOULDER POINT AND FILL SLOPE. PROVIDE POSITIVE DRAINAGE AWAY FROM EDGE OF EXISTING PAVEMENT AT ALL TIMES (MINIMUM SLOPE OF 1/4" PER FT.). PROVIDE MATERIAL ADJACENT TO THE EDGE OF EXISTING PAVEMENT TO PREVENT EDGE DROP OFF (SEE TRAFFIC CONTROL PLAN NOTES). PROVIDE A BEAM AND DRAINAGE SWALE BETWEEN EDGE OF PAVEMENT AND TOP OF SLOPE TO DIRECT RUNOFF INTO CATCH BASINS.
 18. EXCAVATE FROM EDGE OF PAVEMENT TO 8 INCHES MINIMUM BEYOND BACK OF CURB. PLACE 3 INCHES BASE COURSE (B). REMOVE TYPE D DEVICES IMMEDIATELY PRIOR TO BASE COURSE PLACEMENT. RETAIN TYPE D DEVICES AFTER BASE COURSE PLACEMENT. PROVIDE SUIABLE MATERIAL UP TO EDGE OF PAVEMENT AND SLOPE 6:1 FROM EDGE OF PAVEMENT (SEE TRAFFIC CONTROL PLAN NOTES).
 19. INSTALL FRAMES, GRATES & HOODS FOR CATCH BASINS AND INSTALL CURB & GUTTER. PLACE REMOVED MATERIAL FROM CURB & GUTTER INSTALLATION BEHIND CURB & GUTTER.
 20. BACKFILL BEHIND CURB & GUTTER TO STABILIZE C&G AND CONTINUE TO PROVIDE POSITIVE DRAINAGE AWAY FROM C&G TOWARDS SILT FENCE.
 21. EXCAVATE STRIP BETWEEN EXISTING PAVEMENT AND EDGE OF GUTTER. FLAGGING MATERIAL BEHIND C&G FOR PLACEMENT IN FILL BEYOND PROPOSED SIDEWALK TO BE INSTALLED. PLACE INTERMEDIATE COURSE (D) AND FIRST SURFACE COURSE (E) BETWEEN EXISTING EDGE OF PAVEMENT AND CURB & GUTTER (TOP OF BASE COURSE ELEVATION SHOULD BE APPROXIMATELY 1 1/2 INCHES BELOW EDGE OF PAVEMENT).
 22. SEED SLOPE AND INSTALL EROSION CONTROL BLANKETS ON SLOPE. SLOPE SHALL BE SEEDED AND EROSION CONTROL BLANKETS INSTALLED WITHIN 31 CALENDAR DAYS UPON COMPLETION OF GRADING SLOPE.

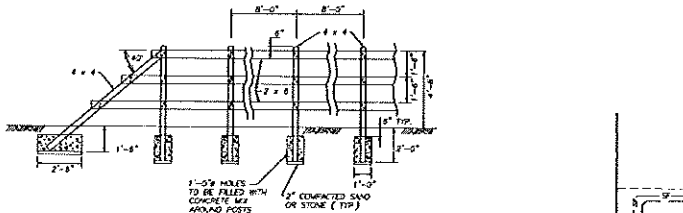
OUTLET SPREAD CALCULATIONS

INLET #	DRAINAGE AREA (Ac)	SLOPE (LONG)	SLOPE (SHORT)	SLOPE (GUTTER)	Max Spread	Gutter Width	Max Chg (ft)	A (ft)	P (ft)	Hydraulic Radius	Q @ Max Spread (cfs)	Actual Q (ft/s)	Difference Between Max Spread and Actual Q
CB 1	0.20	1.00%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.50	0.21	0.20
CB 2	0.17	1.00%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.50	1.10	0.40
CB 3	0.16	0.50%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.18	1.03	0.15
CB 4	0.02	0.10%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	0.47	0.32	0.34
CB 5	0.06	0.60%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.18	0.32	0.86
CB 9	3.18	2.00%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	2.12	1.80	0.33
CB 7	0.10	2.50%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	2.17	0.65	1.73
CB 8	0.13	0.50%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.36	0.66	0.40
CB 9	3.18	0.10%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	0.47	1.50	0.63
CB 10	0.07	1.10%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.58	0.45	1.12
CB 11	0.18	0.20%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	0.97	0.87	0.00
CB 12	0.18	1.00%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.50	1.18	0.34
CB 15	0.13	1.20%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.66	0.78	0.97
CB 18	0.13	0.20%	2.00%	4.20%	8.5	2	0.214	0.767	6.714	0.080	1.42	1.81	0.38

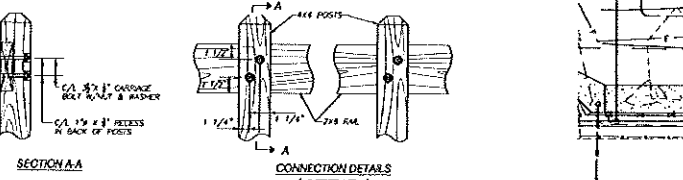


NOTE: ALL PARTIALLY COMPLETED STORM DRAINS SHALL BE COVERED AT THE END OF EACH DAY IN ACCORDANCE WITH THESE DETAILS.

PIPE FILTER INLET PROTECTION



TYPICAL RAIL ELEVATION NO SCALE



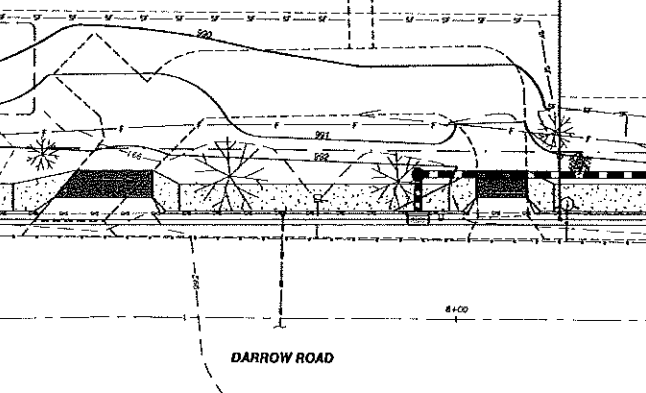
CONNECTION DETAILS (OUTSIDE VIEW)

ALL TREATED LUMBER FOR THE SHOULDER & POSTS SHALL MEET THE REQUIREMENTS OF SECTION 1202 OF THE MCDEN STANDARD SPECIFICATIONS. ALL SCREWS, BOLTS, NUTS AND WASHERS ARE TO BE HOT DIPPED GALVANIZED. CONCRETE FOR POST FOOTINGS AND END BLOCKS ARE TO BE FIELD VERIFIED. DEVIATIONS FROM PLAN DIMENSIONS ARE TO BE APPROVED BY THE ENGINEER.

TYPICAL RAIL PLAN NOTES NO SCALE

DRIVEWAY REPAIR NOTES

1. CONTRACTOR SHALL REMOVE EXISTING BRICK PAVERS & STOCKPILE PAVERS IN AREA (A).
2. CONTRACTOR SHALL PROTECT ALL EXISTING SUBGRADE & UNDERCUT, IF REQUIRED, AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL INSTALL ABC STONE BASE TO WITHIN 2" OF SUBGRADE FOR PAVERS.
3. PROVIDE 2" MASONRY SAND (SELECT MATERIAL) TO INSTALL PAVERS.
4. INSTALL BRICK PAVERS TO PROPOSED GRADES.
5. SEED & MULCH ALL DISTURBED AREAS BEYOND BRICK PAVERS & REMOVE SILT FENCE.
6. INSTALL SILT FENCE ALONG TOE OF FILL SLOPE FOR SIDEWALK, IF AREA HAS NOT BEEN SEEDED & MULCHED.



BRICK DRIVEWAY DETAIL BETWEEN STA. 7+20± TO STA. 8+15± NOT TO SCALE

TOTAL DISTURBED AREA - 1.8 ACRES ±

FINAL DRAWINGS NOT RELEASED FOR CONSTRUCTION



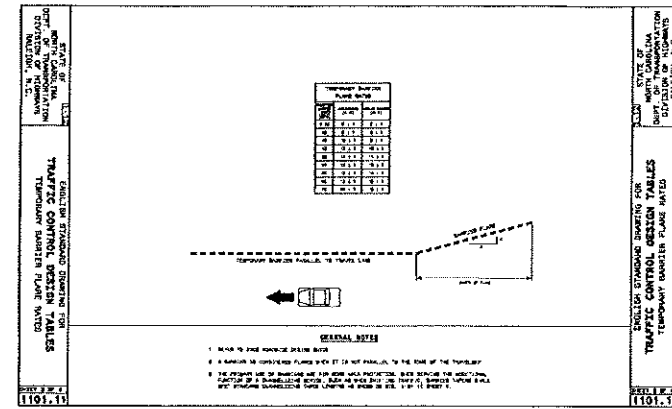
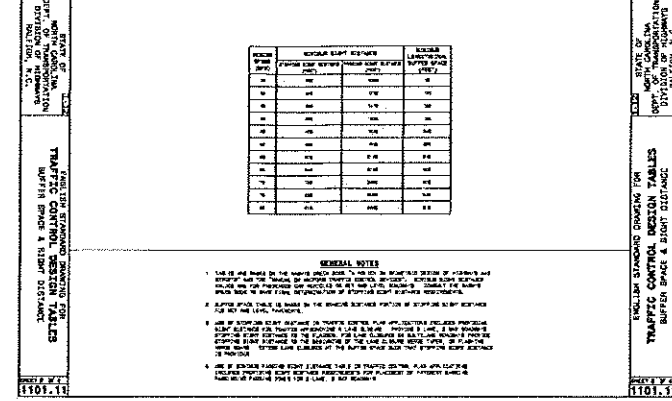
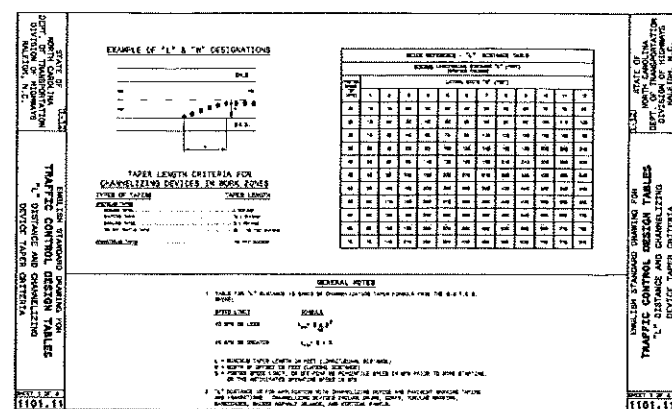
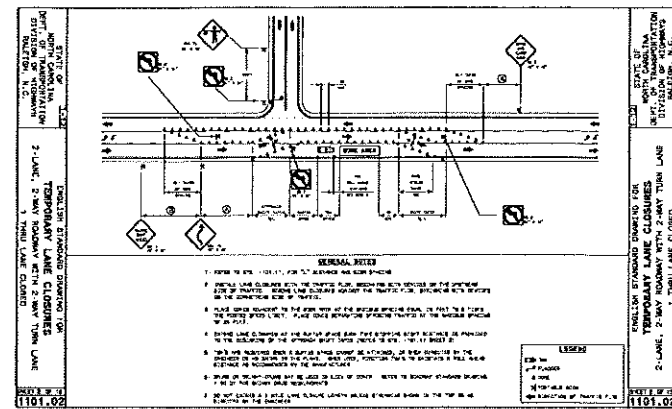
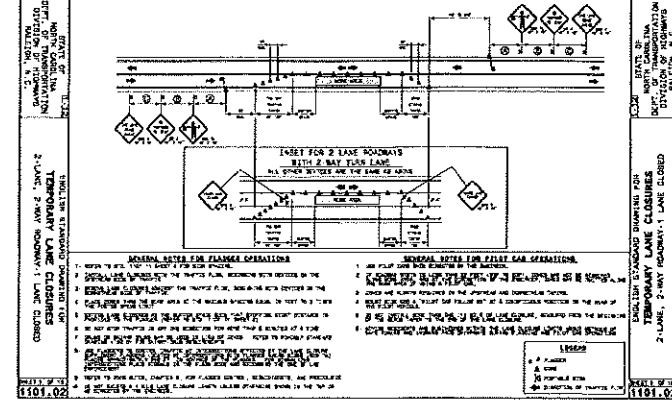
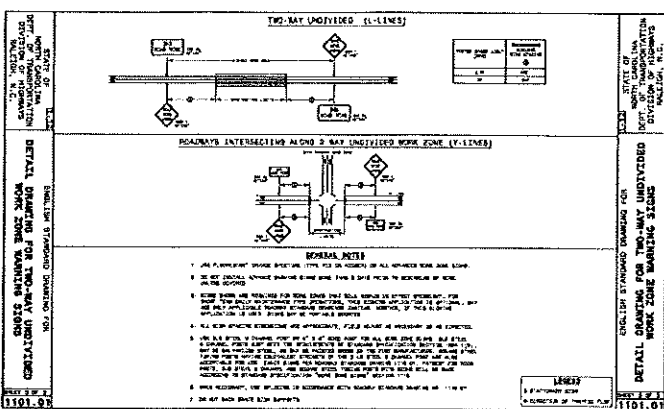
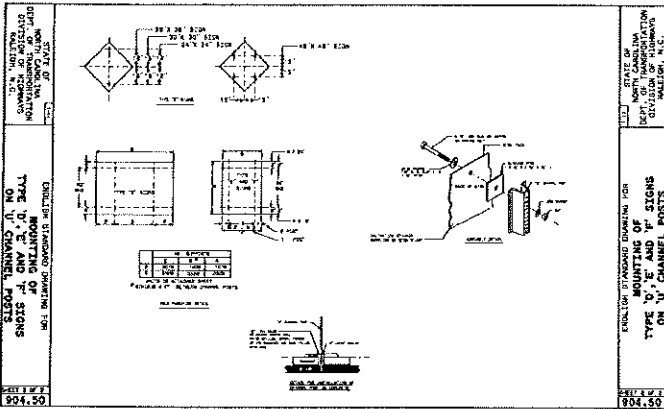
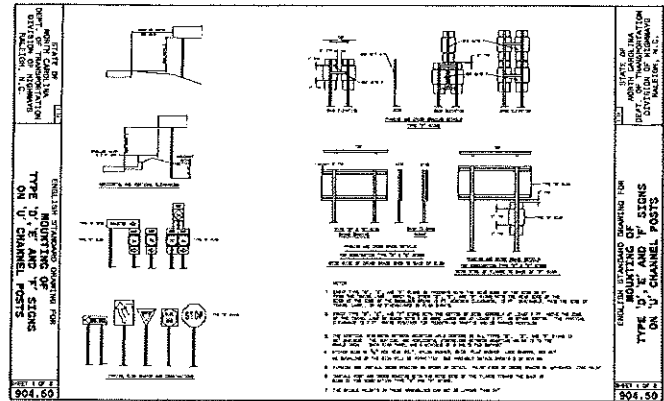
REV. 8/15/11 PER NCDOT COMMENTS
REV. 4/26/11 PER NCDOT COMMENTS

PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSTH COUNTY, NC

alley, williams, cormen & king, Inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road p.o. box 1179
burlington, n.c. 27215 336/226-5534

DATE: 2/26/11
DRAWN BY: MEF
CHECKED BY: VCF
JOB NO: 09057
SHEET NO: 11
ONE NUMBERED DRAWING DETAILS

EROSION CONTROL NOTES, CONSTRUCTION DETAILS & STORM DRAINAGE CALCULATIONS



FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION



REV. 3/14/11 - 2012 STANDARDS
REV. 4/26/11 PER MOOT COMMENTS

PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSTH COUNTY, NC

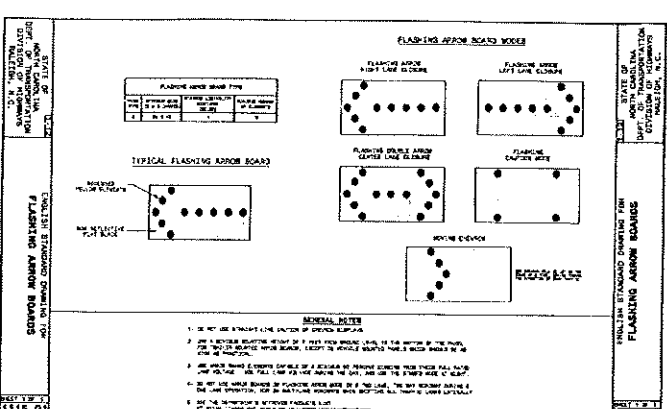
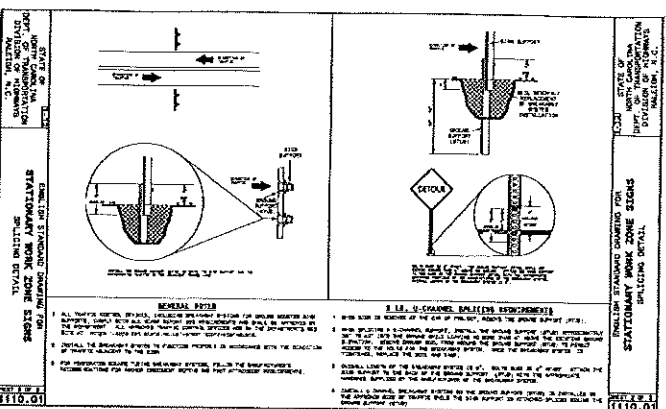
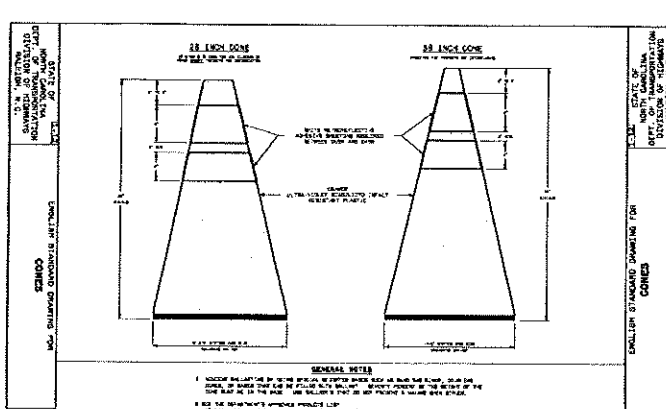
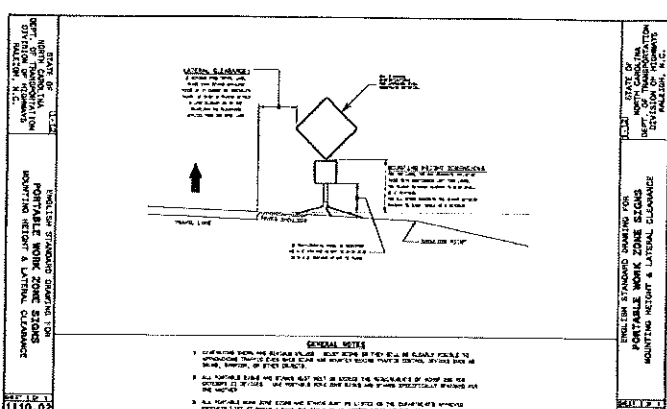
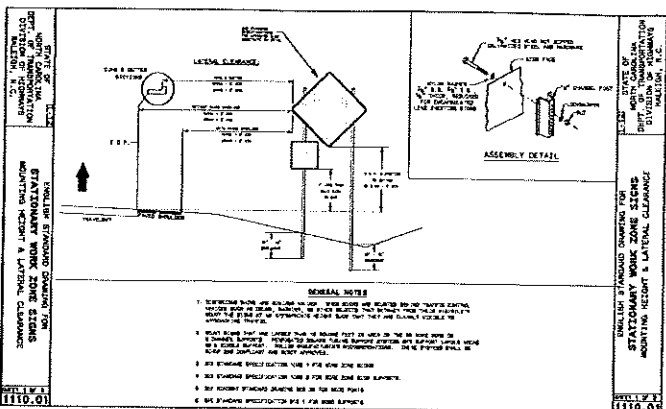
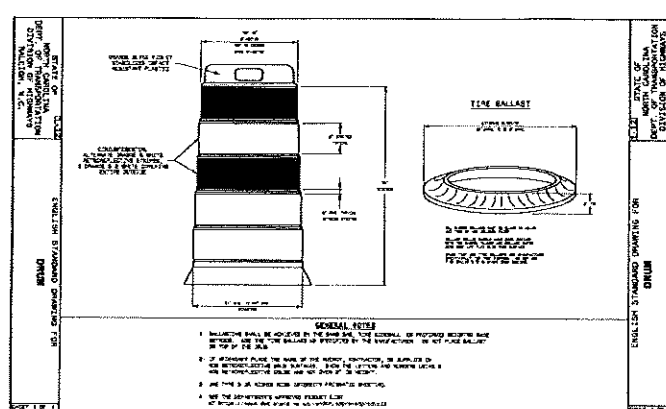
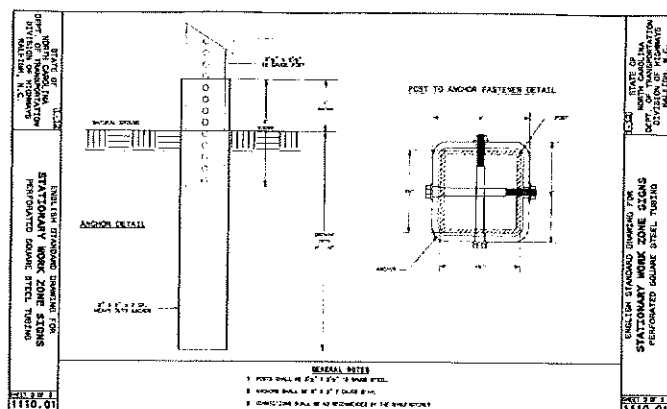
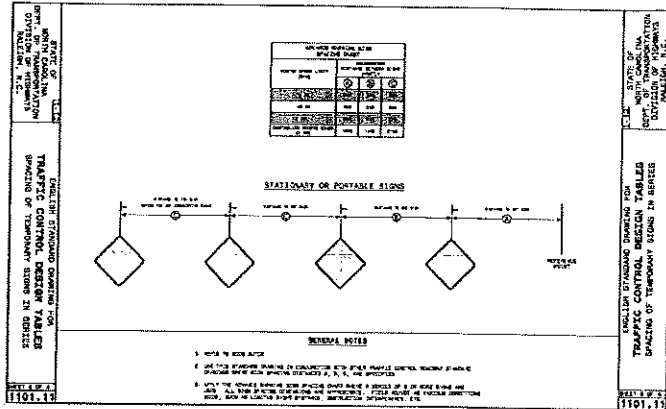
atley, williams, cormen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road
burlington, n.c. 27215
p.o. box 1179
336/226-5534

AWC&K

DATE: 2/28/11
DRAWN BY: WCF
CHECKED BY: MDR

JOB NO: 09067
SHEET NO: 12
SHEET TOTAL: 12

TRAFFIC CONTROL
DETAILS



FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION



PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSYTH COUNTY, NC

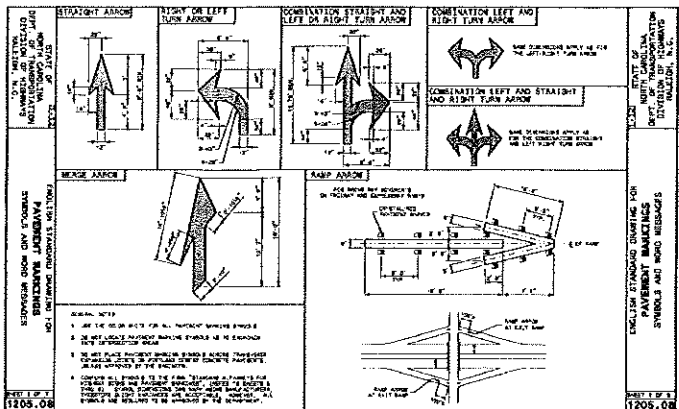
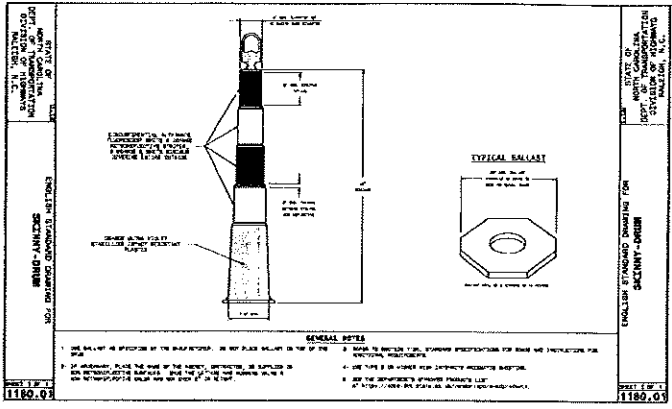
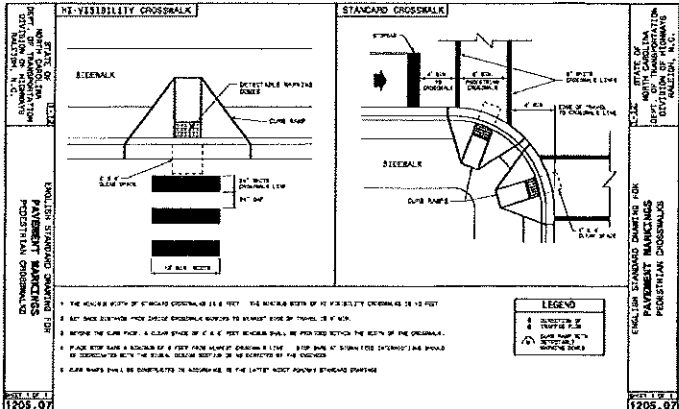
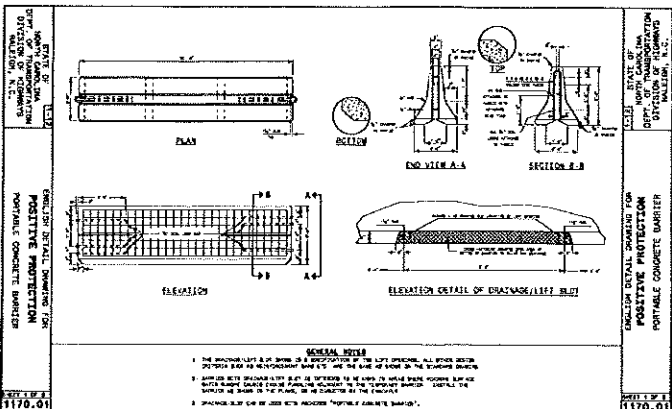
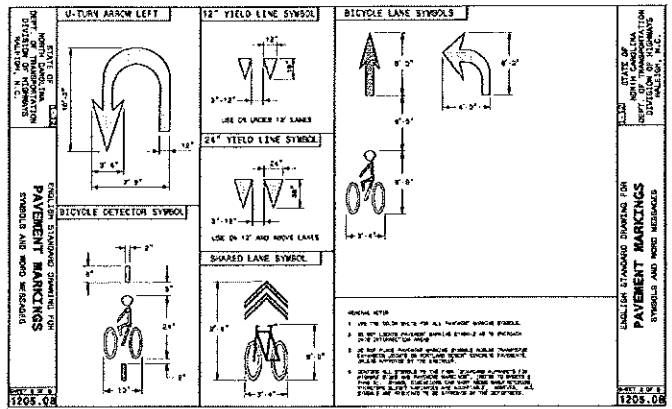
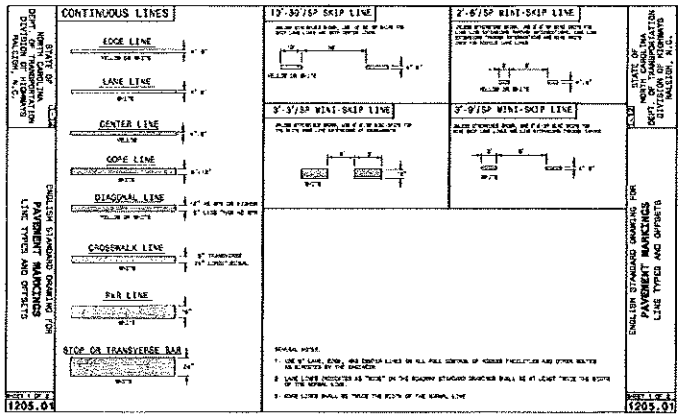
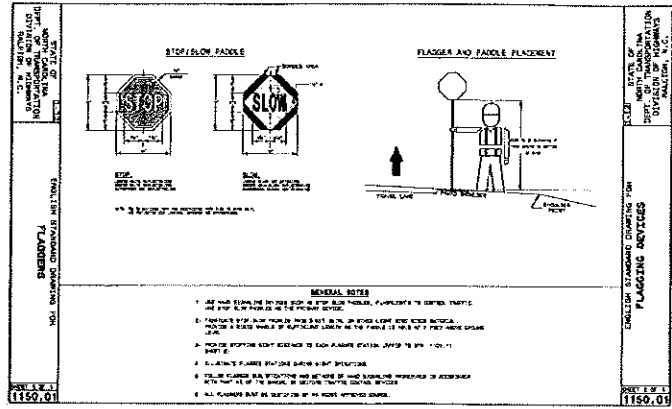
alley, williams, cormen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road
burlington, n.c. 27215

DATE: 2/28/11
DRAWN BY: MCF
CHECKED BY: MCF

JOB NO: 00067
SHEET NO: 13
SHEET NAME: SIGNIFICATION DETAILS

DATE: 2/28/11
DRAWN BY: MCF
CHECKED BY: MCF

11/10/2010 10:00 AM



FINAL DRAWINGS
NOT RELEASED FOR CONSTRUCTION



PROPOSED SIDEWALK IMPROVEMENTS FOR
TOWN OF WALKERTOWN
WALKERTOWN, NORTH CAROLINA
SALEM CHAPEL TOWNSHIP, FORSYTH COUNTY, NC

aw **ck** alley, williams, carmen & king, inc.
ENGINEERS, ARCHITECTS & SURVEYORS
740 chapel hill road p.o. box 1179
burlington, n.c. 27215 336/226-5534

DATE: 2/28/11 JOB NO: 09057
DRAWN BY: MOR SHE NAME: CHRISTOPHER DETALLE SHEET NO:
CHECKED BY: MOR TRAFFIC CONTROL DETAILS
MOR 13A
OF 13

