10/16/08 ROADWAY DESIGN STAFF MEETING Roadway Design Unit Conference Room 9:00 a.m. – 11:00 a.m.

Performance Management : Cycle 04/01/08 through 03/31/09

Interim reviews shall be completed by November 14, 2008. Please discuss the interim ratings with Jay, Scott and Dewayne.

TMT – Performance Dashboard Appraisal (PDA) The deadline for completing Section A, B, C, and D is October 31, 2008. This includes measures, targets, weights, signatures and dates on Section A. Please submit your completed forms to Dewayne and Scott. This work needs to be completed for all employees.

Plans for Pre-Let Field Inspection/Combined Field Inspection : MEMO Dated April 7, 2008. Subject : Right of Way Plan Sheet Revisions

At the time Final Design Field Inspection (FDFI) or Combined Field Inspection (CFI) plans are distributed the division, Roadway Design (RDU) will notify Location and Surveys (L&S) of the field inspection date and the current directory for the electronic plans. An e-mail to Charlie Brown and Dale Burton is sufficient.

The L&S field office will use this information to review the project limits, update planimetrics, and make necessary revisions to the project files. L&S will submit all revisions/updates to RDU prior to or at the time of the field inspection.

Monumentation for Permanent Utility Easements

In order to preserve and protect NCDOT's permanent easements (Drainage and Utility), the Location and Surveys Unit will place iron pins and caps at the corners of the easement shape (similar to changes in direction for right of way).

An implementation plan and date for this change will be forthcoming.

Permanent Utility Easements (PUE)

The letter for Establishing Permanent Utility Easement dated November 6, 2008, was signed by Debbie Barbour and Jon Nance. The letter provides technical guidance for the identification of permanent utility easements and incorporating this information into the design plans. Four action items were identified.

Clear zone limits will be established by the Roadway Design Engineer and will be documented as part of the project design criteria. Please include the clear zone information in the design assumption worksheet.

Roadway Design Unit Staff Meeting October 16, 2008 Page 2

The hearing map legend for easements will change. The green cross hatched label for easements will be changed from "all easements" to "proposed easements (drainage, construction and utility). The pink utility easement label will be changed from "utility easement" to "existing utility easement".

Roadway Construction Tour : Project Sites = U-2524AB (C. Houser), U-2524AC (C. Houser), R-2606A (Taylor), R-609IA/R-0609IB (Goodnight), I-2808A (Rochelle), K-4703 (Thomas), R-2518A (B. Moore), R-2518B (Taylor), R-2813B (Rochelle), I-4401 (Rochelle), R-2813B (Rochelle), I-5005A (Division 14), I-5003 (Division 12), I-4411 (Brew), R-2248D (Taylor).

Highway Design Branch Staff Meeting

Jay discussed the Friday, October 10, 2008, Highway Design Branch Staff Meeting Minutes with the Roadway Project Engineers.

• Open Discussion

Concrete Transitional Section for Catch Basins and Drop Inlets

Beginning with the January 20, 2009 letting two addition pay items have been added to transport: Concrete Transitional Section for Catch Basins – Per Each and Concrete Transitional Sections for Drop Inlets – Per Each. See the memo dated October 21, 2008, and signed by Jay Bennett.

Minutes Approved By: A. Bennett, PE 12/01/08

<u>AGENDA</u>

10/16/08 ROADWAY DESIGN STAFF MEETING Roadway Design Unit Conference Room 9:00 a.m. – 11:00 a.m.

- Performance Management : Cycle 04/01/08 through 03/31/09 Interim reviews shall be completed by November 14, 2008. Please discuss the interim ratings with Jay, Scott and Dewayne.
 TMT – Performance Dashboard Appraisal (PDA)
- Plans for Pre-Let Field Inspection/Combined Field Inspection : MEMO Dated April 7, 2008. Subject : Right of Way Plan Sheet Revisions
- Monumentation for Permanent Utility Easements
- Permanent Utility Easements (PUE)
- Roadway Construction Tour : Project Sites = U-2524AB (C. Houser), U-2524AC (C. Houser), R-2606A (Taylor), R-609IA/R-0609IB (Goodnight), I-2808A (Rochelle), K-4703 (Thomas), R-2518A (B. Moore), R-2518B (Taylor), R-2813B (Rochelle), I-4401 (Rochelle), R-2813B (Rochelle), I-5005A (Division 14), I-5003 (Division 12), I-4411 (Brew), R-2248D (Taylor).
- Highway Design Branch Staff Meeting



PROJECT LIST



MICHAEL F. EASLEY GOVERNOR LYNDO TIPPETT Secretary

Memo To:	Roadway Design Project Engineers
From:	Jay A. Bennett, PE
Date:	October 15, 2008

Subject: Performance Management - Interim Reviews

The interim PM reviews are to be completed with all your employees and signed by November 14, 2008. A performance evaluation discussion will be conducted with all of our Temporary Transportation Engineers and Engineering Aides if they have been in Roadway Design for at least 3 months. Their evaluations will not officially be entered into the Personal Section's records, but discussed for the direct benefit of those employees and supervisors. Engineering Associates and Co-ops will be evaluated with their normal reviews at the end of their stay.

The supervisor should review each Key Responsibility and Dimensions with the employee and advise him/her of their performance. Part IV, Interim Review Summary, of the work plan is to be completed and signed by the supervisor and employee. If an employee receives a rating of "below good" on any Key Responsibility or Dimension, then Part V, Developmental Plan, must be completed to help the employee to improve on the deficient item.

Each Project Engineer should set up a meeting with Dewayne, Scott and myself to give a verbal summary of the evaluations. If you have any questions, please let me know.

JAB/hcc

cc: Scott Blevins, PE Dewayne Sykes, PE Patsy Stephenson

WEBSITE: WWW.NCDOT.ORG/DOH

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	STATE OF NORTH CAROLINA	MUEN STRIPS LATING
	DEPARTMENT OF TRANSPORTATIO	N SVERING WITH T
MICHAEL F. EASLEY Governor		NOORE
(7 -		PREPARE REPLY FORSIGNATURE
To:	Staff of Affected Units	REVIEW/DISCUSS WITH
	Location & Surveys, Right Of Way Negotiations, Roady	
From:	Charles W. Brown, PE, PLS	COPIES SELIT
	State Location & Surveys Engineer	JPR 23 TB
	Judy Joines Outre	
	State Negotiator	
	Jay A. Bennett, PE Aby B- State Roadway Design Engineer	
Subject:	Right Of Way Plan Sheet Revisions	

On February 22, 2008, a meeting of the three Units was held to discuss procedures for updating Right Of Way plans. At that meeting the following procedures were approved to be implemented by all three Units:

I Plans for Final Design Field Inspection /Combined Field Inspection (prior to right of way authorization)

- At the time of printing and sending out the Final Design Field Inspection/Combined Field Inspection plans, Roadway Design (RDU) will notify Location & Surveys (L&S) of the current directory for electronic design plans (email to Unit Head is sufficient).
- The L&S field office will review all parcels affected by new rights of way and easements to verify and update property changes such as ownership, subdivisions, and recombinations.
- The L&S field office will review project limits and update planimetrics or perform other revisions as necessary.
- The L&S field office will submit all revisions/updates to Roadway Design Unit prior to or at the time of the Final Design Field Inspection/Combined Field Inspection Meeting, by electronic files.
- The L&S field office will inform all parties of revisions during the Final Design Field Inspection/Combined Field Inspection Meeting. RDU will revise plans as necessary to reflect those changes, and provide updated plans for the submittal of Final ROW plans with authorization.

TELEPHONE: 919-250-4109 FAX: 919-250-4223

WEBSITE: WWW.DOH.DOT.STATE.NC.US

RW Plan Sheet Revisions 4/07/08 Page 2 of 3

II Authorization to Purchase Right of Way

- Upon receiving authorization to acquire right of way from the Board of Transportation, The Right Of Way (ROW) Branch will request that L&S stake the proposed right of way and easements. This policy and procedure did not change.
- Following the staking of right of way and easements, the L&S field office will prepare and transmit a set of red-lined plans to the RDU Project Engineer and Division ROW Agent. The red-lined plans will include, but is not limited to, any right of way revisions and any station/offset computed during RW staking phase. <u>RDU will revise</u> the right of way plans in accordance with the staking plans and will submit new plans as a right of way revision. This is a new procedure. (The right of way revision request for the staking plans will not be initiated by the ROW Branch).

III Property Revisions following Authorization to Acquire Right of Way

- Any revisions after Authorization to Stake Right Of Way (other than those listed in II above) will be initiated by the ROW Branch by way of a request letter to the State Negotiator. L&S Central Office and RDU will be copied.
- Text revisions (name changes) will be handled by RDU. Field revisions that include changes to property lines will be handled by L&S, with L&S field office receiving assignment to proceed (Division ROW Agent may have previously discussed this with the L&S field office).
- Any field revisions with property line or right of way limit changes will be submitted to RDU electronically, with red-lined copy going to the Division ROW Agent.
- RDU will make requested changes prior to the distribution of the Pre-Let Field Inspection plans. All requests for revisions to right of way plans shall be processed in a timely manner.

IV Final/Pre-Let Field Inspection Plans/Meeting

- All revisions and updates received at this point will be reflected in the Pre-Let (Final) Field Inspection Meeting.
- All issues addressed during Pre-Let (Final) Field Inspection Meeting involving additional surveys/revisions will be initiated by the ROW Branch by way of a request letter as noted in the procedure above.

V RW Verification

- RDU will make any final revisions as requested by ROW agent (IV above) prior to the plan submittal to the Plans Checking Unit. <u>All plan changes shall be complete 15</u> weeks prior to the let date (19 weeks for a project with an 8-week advertisement). Otherwise, the request will be processed as a right of way revision on a let project.
- L&S central office will be notified by RDU that Final Plans are complete and that the plan checking phase has been initiated (email to Unit Head is sufficient). L&S field office will receive assignment to begin ROW Verification per current procedures.
- L&S field office will obtain the electronic design plans from roadway server. No hard copy will be transmitted.

Right of Way Plan Sheet Revisions 4/07/08 Page 3 of 3

- L&S will verify placement of right of way monuments on the ground as per final plans.
- The ROW Branch will record final plans immediately prior to project let, as per standard procedure.

VI Let Activities

- Any right of way revisions made following let will be made as a right of revisions for a let project. All three Units (L&S, RDU, and ROW) will be notified by way of a plan revision.
- RDU will retain responsibility for plan sheet/file revisions.
- The ROW Branch will retain responsibility for recordation of revisions as necessary.
- L&S will have responsibility for re-staking any revised right of way, either in-house or through coordination with the Resident Engineer's office in charge of the project.

These are to be standard procedures for revisions to right of way plans. However, exceptions may occur. Any exceptions should be minimal and should be addressed in the most expedient manner, with communication to the Division Engineer's staff (Division Construction Engineer), L&S, RDU and ROW.

Thank you for your compliance in this issue.

JAB: JJ; CWB

cc: Ms. D. M. Barbour, PE Mr. A. D. Allison Mr. Art McMillan, PE



MICHAEL F. EASLEY GOVERNOR

LYNDO TIPPETT Secretary

July 23, 2008

To:

Mr. A. D. Allison, II Manager, Right of Way Branch

Mr. J. Robert Memory State Utility Agent

Mr. Ellis Powell, Jr., PE State Construction Engineer

From: Charles W. Brown, PE, PLS State Location & Surveys Engineer

Subject: Monumentation of Permanent Easements

In order to better preserve and protect NCDOT's permanent easements (Drainage and Utility primarily), the Location & Surveys Unit will be placing iron pins and caps at the corners of those, as we do on the changes of direction on the rights of way. The cap to be used is smaller than the NCDOT right of way cap. The text "NC DEPT OF TRANS PERMANENT EASEMENT DO NOT DISTURB" is placed around the monument circumference. A sketch is attached.

Thank you for your time and attention. If you have questions or comments, please do not hesitate to contact me at 919-250-4109.

CWB

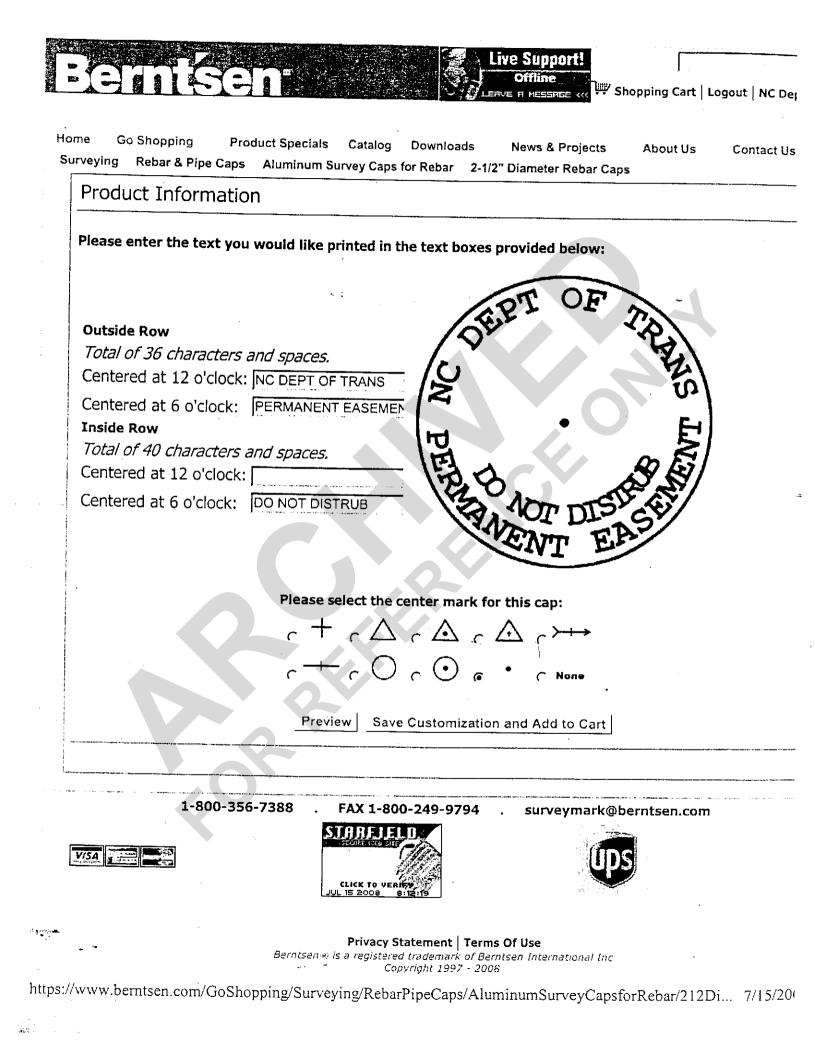
Cc: Mr. Jon Nance, PE Ms. Debbie Barbour, PE Mr. Art Mol Man, PC L&S Area Engineers

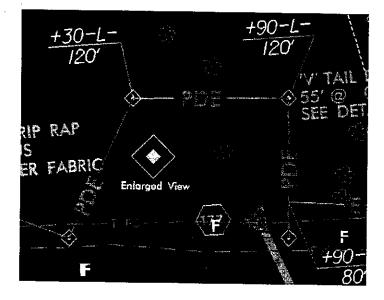
MAILING ADDRESS: NC DEPARTMENT OF TRANSPORTATION LOCATION & SURVEYS UNIT 1588 MAIL SERVICE CENTER RALEIGH NC 27699-1588

TELEPHONE: 919-250-4109 FAX: 919-250-4223

WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION: CENTURY CENTER COMPLEX BUILDING B-ENTRANCE 84 1020 BIRCH RIDGE DRIVE RALEIGH NC 27610 Perm Ease Announce.doc





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RAILROADS:

Standard Gauge	CSX TRANSPORTATION
RR Signal Milepost	
Switch	
RR Abandoned	SWITCH
RR Dismantled	

RIGHT OF WAY:

 Baseline Control Point

 Existing Right of Way Marker

 Existing Right of Way Line

 Proposed Right of Way Line

 Proposed Right of Way Line with

 Iron Pin and Cap Marker

 Proposed Right of Way Line with

 Concrete or Granite Marker

 Proposed Permanent Easement with

 Iron Pin and Cap Marker

 Proposed Permanent Easement with

 Iron Pin and Cap Marker

 Proposed Control of Access

 Proposed Control of Access

 Existing Easement Line

ROADWAY DESIGN UNIT		HIGHWAY DESIGN BRANCH
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МЕМО ТО:	Art McMillan, PE Greg Thorpe, PhD	

Greg Thorpe, PhD Jay, Bennett, PE Tommy Cozart, PE Robert Memory

Deborah Barbour, PE

FROM:

Director of Preconstruction

Jon Nance, PE Birectory of Field Operations

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SUBJECT: Establishing Permanent Utility Easements (PUEs)

The purpose of this memo is to serve as updated technical guidance regarding the identification of potential utility easements (PUEs). Please implement the four action items immediately on all TIP Projects.

- (, During the identification and analysis of project alternatives, the Utility Unit will begin evaluating the alternatives for potential utility easements (PUEs). The Utility Unit will work with the Roadway Project Engineer to ensure that potential utility easements are shown on public hearing maps.
- 2. The Utilities Unit will utilize 25% plans to investigate, identify and isolate potential utility conflicts within the project limits. This information will be used to better define the utility easements (PUEs) to be shown left or right of the -L- and/or -Y- lines.
- 3. The final design of the PUEs will be determined based on the clear zone limits, which will be determined by the Roadway Project Engineer. The alignment for the PUEs will be finalized after the final design field inspection but prior to Right of Way Authorization. The Roadway Design Engineer will depict the PUEs on the final plans. If applicable the PUEs will be placed outside the project clear zone limits.
- 4. As part of the acceleration process for relocating conflicting utilities, the Utilities Unit will identify the parcels that need to be purchased during the early stages of the right of way acquisition and will work with the Right of Way Branch, so they can proceed with securing the parcels.

Please note the following:

Depending on the time needed to acquire the PUEs and the estimated time it will take to relocate the conflicting utilities, additional time beyond standard Right of Way acquisition time, might be requested by the Utilities Coordination Unit to clear conflicts prior to the project availability date. On the majority of TIP Projects, ample time should be available for securing the PUEs to relocate the conflicting utilities during the right of way acquisition phase of the project.

Depending on additional revisions to the roadway plans and the complexity of the project, additional time might be needed between the Final Field Inspection and Right of Way Authorization to finalize the alignment of the utility easements (PUEs). The Utilities Coordination Unit will make the request for additional time to the Roadway Project Engineer.

In most cases the requested PUEs will be a width of fifteen feet (15') to accommodate the back of the overhang (outside conductor) for a 12.4 KV power distribution line. Depending on the width of the clear zone to the edge of the travel lane, the poles could potentially be placed inside the highway right of way to reduce the width of the requested PUEs or eliminate the need for the PUEs. The department will make all efforts to accommodate the relocated utilities within the highway right of way to reduce the impacts on the adjoining properties. Also, the Roadway Design Engineer should strive to place the PUEs as straight as possible and parallel with the project alignment. By reducing the angles/turns within the PUEs, the number guys needed to stabilize the utility poles will be reduced. The Roadway Design Engineer should also avoid parallel alignments that would leave any separation between the highway right of way line and the PUEs. In other words, the existing right of way or proposed right of way line should serve as the inner boundary of the PUEs.

As with any highway project, it may not be feasible to place the poles outside the clear zone. Urban development, terrain, environmental impacts, historical property, structural conflicts, and cost for right of way and/or relocation cost may affect the feasibility of relocating utilities outside the determined clear zone. The final decision to leave or relocate overhead facilities within the clear zone will be the responsibility of the Roadway Project Engineer.

The decision to bury existing overhead facilities within the clear zone will be a joint decision among the Utilities Unit, Division Engineer, the Roadway Design Engineer and the cost review committee. Historically, the cost to bury existing overhead utilities has greatly increased utility relocation cost on TIP Projects.

By working together, we hope the four action items will reduce utility delays and construction cost by minimizing the risk of utility conflicts prior to the project availability date.

If you have any questions, please contact Mr. Robert Memory at (919) 250-4128.

DB/JN/rm

Cc: Bill Rosser, PE Steve Varnedoe, PE Kevin Lacy, PE Division Engineers Division Right of Way Agents Roadway Design Project Engineers Michael Dawson Rodger Worthington, PE O'Hara Parker A. D. Allison, II David M. Bailey Judy Joines Neal Strickland

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MICHAEL F. EASLEY GOVERNOR MEMO TO:

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LYNDO TIPPETT Secretary

MARCH MARCH MARCH

Art McMillan, PE, Jay Bennett, PE, Robert Memory and Tommy Cosart, PE

FROM: Deborah Barbour, PE Director of Preconstruction

DATE: October 14, 2008

Utility Pole Placement

The purpose of this memo is to serve as updated technical guidance regarding the placement of utility poles along TIP projects. As noted in the 2002 AASHTO Roadside Design Guide, motor vehicle crashes with utility poles account for approximately 10% of all fixed object crashes. It is therefore prudent to put utilities underground or place utility poles as far away from the roadway edge as is feasible.

All new or relocated utility poles should be placed at or beyond the clear zone as defined by the 2002 AASHTO Roadside Design Guide or the most current edition. The clear zone and recovery area should be considered when setting proposed R/W. The following are typical applications of these guidelines when setting proposed R/W, Permanent Utility Easements (PUE) and placing utility poles:

Projects with Full Control of Access

Proposed R/W and the Control of Access should be set at a dimension that encompasses the project footprint, lateral drainage features and encompasses/protects the clear zone. All new or relocated utility poles shall be placed outside the proposed R/W and Controlled Access.

Shoulder Section

Proposed R/W should be set at a dimension that generally encompasses the project footprint, lateral drainage features and encompasses/protects the clear zone. All new or relocated utility poles shall be placed at or just outside the proposed R/W and therefore outside the clear zone. A 15 foot PUE may be provided beyond the proposed R/W along one side to encompass the utility poles.

Multilane Curb and Gutter section

Proposed R/W should be set at a dimension that generally encompasses the construction footprint, lateral drainage features and encompasses/protects the clear zone. Regarding the customary 4 lane divided roadway with a 23 foot median and posted at 45 mph, the proposed

MAILING ADDRESS: NC DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN UNIT 1582 MAIL SERVICE CENTER RALEIGH NC 27699-1582

TELEPHONE: 919-250-4016 FAX: 919-250-4036

WEBSITE: WWW.NCDOT.ORG/DOH

LOCATION: CENTURY CENTER COMPLEX BUILDING A 1000 BIRCH RIDGE DRIVE RALEIGH NC Art McMillan October 14, 2008 Page 2

R/W width should be 125 feet wide. All utility poles shall be precedent or just outside this R/W and therefore outside the clear zone. A 15 foot PUE may be provided beyond the proposed R/W along one side to encompass the utility poles.

Due to project and area specific constraints as well as costs, it may not always be prudent to purchase 125 feet of R/W, a 15 foot PUE and relocate utility poles accordingly. Nonetheless during the planning stages for TIP projects, consideration should be given to do so. It is noted that a TIP project may be limited to a relatively short section of a highway and therefore the benefit of utility pole relocation may be similarly constrained.

Please note that traffic signal poles (specifically metal mast arm poles) need not be treated as utility poles. It is frequently neither feasible nor justifiable due to span length and cost to place them beyond the desired clear zone. However, wooden signal poles and metal strain poles often can and should be placed beyond the clear zone.

All new or relocated utility poles should be placed at or beyond the clear zone as defined by the 2002 AASHTO Roadside Design Guide or the most current edition. Any new or relocated utility pole placed within 12 feet of the roadway edge shall be breakaway. Any new or relocated utility pole placed within the clear zone but beyond 12 feet from the roadway edge shall require an exception to be approved by the State Highway Design Engineer or Division Engineer as appropriate. Attached is an exception form.

Please begin using these guidelines immediately on all TIP Projects. If you have any questions, please contact me or Dewayne Sykes at (919) 250-4016.

DMB/dls

Attachments

cc: Bill Rosser, PE Steve Varnedoe, PE Victor Barbour, PE Greg Thorpe, PhD Division Engineers Roadway Design Project Engineers

Roger Worthington, PE Kevin Lacey, PE Jon Nance, PE A. D. Allison, Jr.





MICHAEL F. EASLEY Governor				LYNDO TIPPETT Secretary
MEMO TO:	Art McMillan, PE State Highway Desig	gn Engineer	(or Division Engineer)	
FROM:	Jay A. Bennett, PE State Roadway Desi	gn Engineer	(or Requesting party)	
DATE:				
SUBJECT:	Project: (F.A. Project:)	County	
	Poquest for I			
			ation Exception	
This is a request f information.	or an exception for ut	ility pole location	n. See attachment for p	pertinent
lf you have any વા	estions, please conta	ict me or	, Project Engineer.	
Roadway Project I	Design Engineer	Engineering C Asst. State Ro	oordinator OR badway Engineer	
Roadway Project E	Engineer	State Roadway	y Design Engineer	
Consultant (if appli	cable)		· · · ·	
JAB/ Attachment	0			
	Project Engineer			
	APPROV	ED:		
	DATE:			
	cc: Jay		t Engineer hment (Regional Traffic	Engineer)
AILING ADDRESS: C DEPARTMENT OF TRANSPORTATION DADWAY DESIGN UNIT 82 MAIL SERVICE CENTER ALEIGH NC 27699-1582	FAX:	ve: 919-250-4016 919-250-4036 //W.NCDOT.ORG/DOH		LOCATION: BY CENTER COMPLEX BUILDING A BIRCH RIDGE DRIVE RALEIGH NC

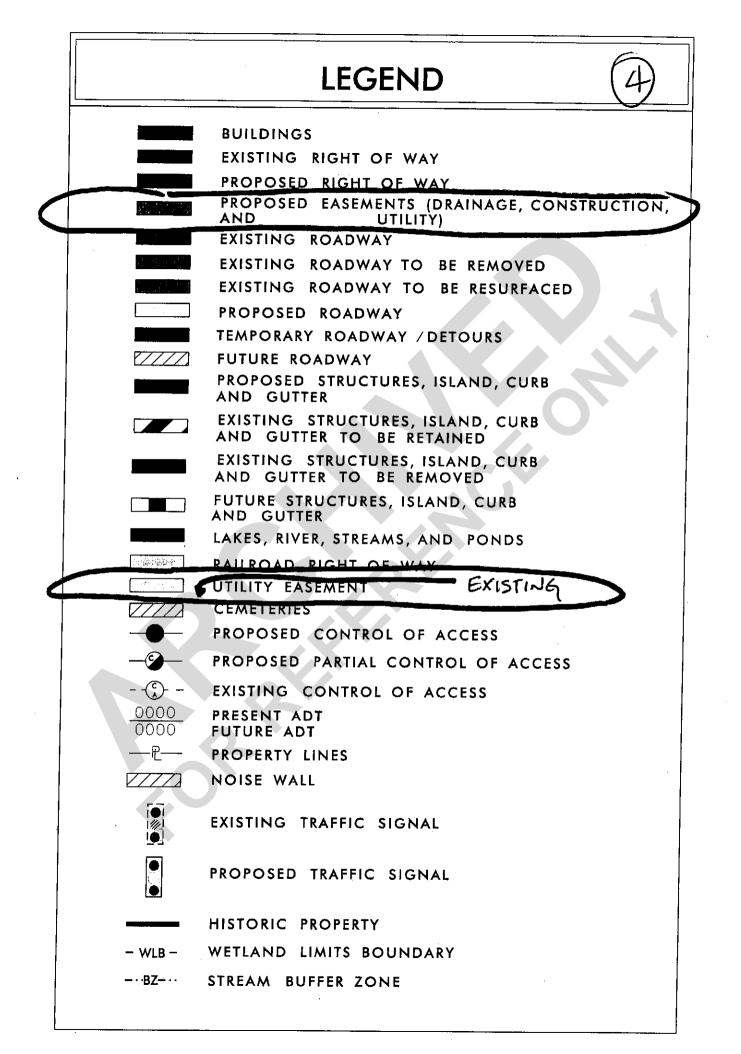
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NCDOT UTILITY POLE LOCATION EXCEPTION REQUEST

(Project does not require FHWA design approval)

F.A. Project No.:	State Project No .:		
TIP No.:	County:	County:	
Location of Utility Pole/s	in Question:		
	PROJECT DATA	A	
Current ADT (Year):	Design ADT	ſ(Year):	
% Trucks:	Design Speed:	Posted Speed:	
Functional Classification:			
2002 AASHTO Roadside	Design Guide Clear zone Dime Dimensions Propos Supports a design s	sed:	
Total Estimated Cost of F	roject:	~	
Additional Cost to Meet N	linimum AASHTO Requirement	IS:	
	BASIS FOR EXCEPT	ION	
1. Describe how the acci accident history, attac average, etc.).	dent history relates to the propo hed (number, type, rates, sever	osed exception. See current 3-y rity, cause, comparison to statev	

- 2. Describe any future plans for upgrading this roadway either at or in the vicinity of this project.
- 3. Describe the cross section, geometrics, access control, etc. of the existing roadway outside the project limits.
- 4. Explain why it is not reasonable or feasible to meet (engineering, environmental and/or ROW constraints) minimum AASHTO requirements.
- 5. Describe any measures proposed to mitigate this exception.
- 6. Describe the results of a cost benefit (RSAP) analysis.





State Roadway Design Engineer Roadway Design Unit Century Center - Building A

RECEIVED FILE

SECRETARY MCMILLAN

LOVERING

BREW

HOUSER

MOORE

MUMFORD

YNDOF PHT2 2003

✓ SYKES

ALLEN

COPEER

PREPARE REPLY FOR _____ SIGNATURE

EVIEW/DISCUSS WITH

THOMAS

WALLS

POLLARD

GOODNIGHT

ROADWAY DESIGN UNIT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR

COPIES SENT

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MEMO TO: Jay Bennett, PE and Victor Barbour, PE

Debbie Barbour, PE Deblui Barlion FROM: Director of Preconstruction

DATE: December 10, 2003

SUBJECT: Utility Pole Placement

As previously coordinated with staff from your office, Operations, and the Right of Way Utilities Section, the purpose of this letter is to serve as a guide for the placement of utility poles along TIP projects. As noted in the 2002 Roadside Design Guide, motor vehicle crashes with utility poles account for approximately 10 percent of all fixed object fatal crashes. Therefore, it is imperative that the utility poles be placed as far away from the proposed roadway edge of travel lane as feasibly possible. The following guidelines should be used when placing utility poles:

Shoulder Sections

All utility poles shall be placed outside the Clear Zone as defined by the 2002 Roadside Design Guide.

Curb and Gutter Sections posted greater than 45 MPH

All utility poles shall be placed outside the Clear Zone as defined by the 2002 Roadside Design Guide

Curb and Gutter Sections posted 45 MPH or less

All utility poles shall be placed outside the Clear Zone as defined by the 2002 Roadside Design Guide where practicable. If this cannot be achieved due to right of way restraints, the utility pole may be placed a minimum of 12 feet from the face of the curb. All utility poles that are placed closer than 12 feet shall be breakaway poles. (See Attached Detail.)

During the planning stages for a project that will have curb and gutter, consideration should be given to purchasing additional right of way to accommodate for the placement of utility poles.

Please begin using these guidelines effective immediately on all TIP projects. If you have any questions, please contact me or Art McMillan.

Attachment

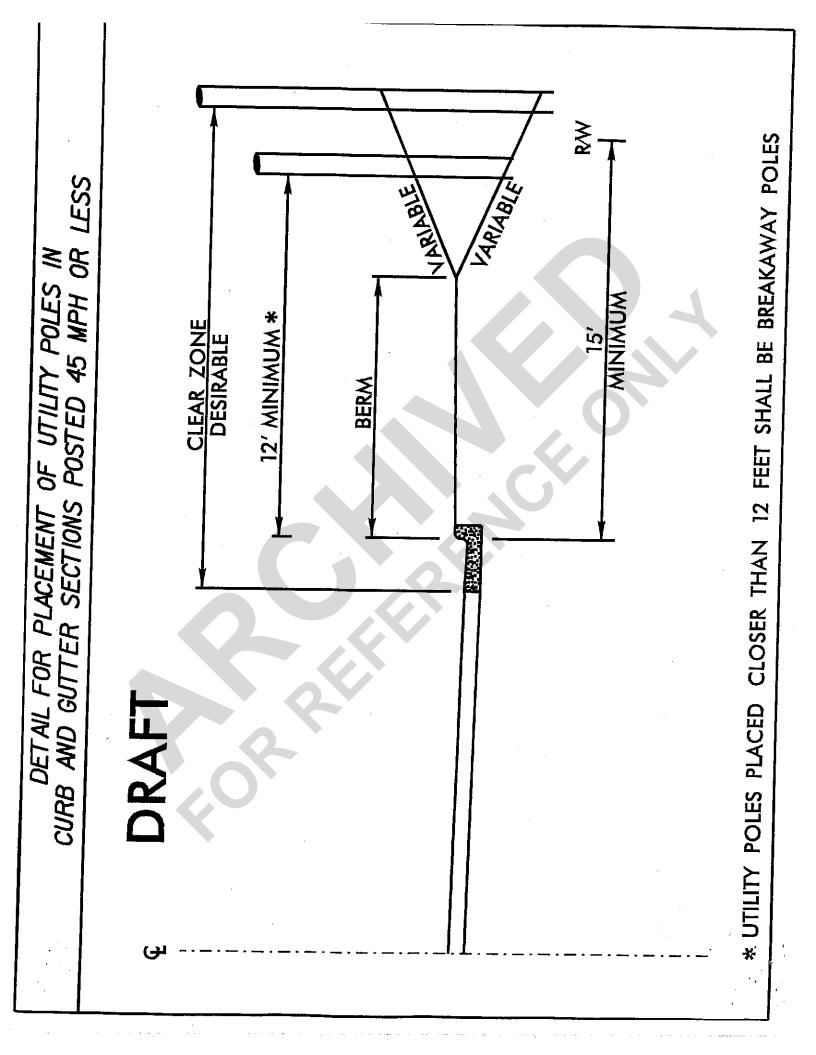
cc w/attachment:

Len Sanderson, PE Steve Varnedoe, PE Steve DeWitt, PE Tommy Cozart, PE Aydren Flowers Art McMillan, PE

MAILING ADDRESS: NC DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION SECTION 1541 MAIL SERVICE CENTER RALEIGH NC 27699-1541

TELEPHONE: 919-733-9425 FAX: 919-733-9428 WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION: TRANSPORTATION BUILDING **1 SOUTH WILMINGTON STREET** RALEIGH NC



Project Schedule for Fall 2008 Roadway Tour

<u>Day 1</u>

Project: U-2524AB & U-2524AC Description: Greensboro Western Loop form North of I-85 to Wendover Ave. Resident Engineer: Chris Kirkman Contractor: Archer Western Contractors, LTD. Bid Amount: \$116 million Work began: February 4, 2004 Current Progress: Complete Completion date: July 3, 2008 Liquidated Damages Assessed: \$1,996,000.00 Points of Interest: The loop onto Bus. I-85 North has had safety improvements added since the completion of the project. We will look at those as well as look at the existing issue and potential hazards.

Project: R-2606A, R-6091A, & R-6091B

Description: US-311 from US-29 & 70 to North of SR-1929 (Future I-74). Resident Engineer: Brian Smith Contractor: Blythe Const., Inc. Bid Amount: \$104 million Work began: May 31, 2007 Current Progress: 48.7% Completion date (Contract): May 15, 2011 Liquidated Damages: \$10,000 per day Points of Interest: The contractor will be using tire chips in the embankment fill. This project may be a test for stabilizing sub-grade during winter months. There are also some issues tying into the concrete paving on I-85.

Project: I-2808A

Description: Design-Build; I-77 from SR-1125 in Yadkin Co. to US-21 Resident Engineer: Jami Guynn Contractor: Lane Construction Corp. Bid Amount: \$59 million Work began: February 5, 2007 Current Progress: 82.5% Completion date (Contract): June 30, 2009 Liquidated Damages: \$5,000 per day Points of Interest: The contractor is planning to close the NB bridge over US 421 on 9-4-08 and begin bridge inching on 0.8.08. The GD least in the second second

08 and begin bridge jacking on 9-8-08. The SB lanes have been diamond ground. At this time the contractor will begin preparing to concrete overlay the loops. The overlay and bridge work should be completed prior to the roadway tour. Work at the time of the tour may be paving shoulders, striping and preparing to re-open the NB lanes on 10-01-08.

Project: K-4703

Description: Rest Area on US-421 in Wilkes Co. Resident Engineer: David Poindexter Contractor: James R. Vannoy & Sons Const. Co., Inc. Bid Amount: \$10 million Work began: January 9, 2008 Current Progress: 50.8% Completion date (Contract): September 15, 2009 Liquidated Damages: \$1,500 per day Points of Interest: This project is being constructed to meet the LEED (Leadership in Energy and Environmental Design) gold certification. This certification is being achieved by using solar energy, geothermal heating and air conditioning, and several other "green" technologies. The contractor is continuing construction of the building (laying block) and this may be complete by the time of the tour; however, other building activities will be going on. Some paving has been completed and may be ongoing at the time as well.

Project: R-2237B

Description: US-321 from SR-1370 to SR-1500 in Caldwell Co.

Resident Engineer: Frank Gioscio, PE

Contractor: W.C. English, Inc.

Bid Amount: \$63 million

Work began: February 2, 2005

Current Progress: 75.7%

Completion date (Contract): August 15, 2008

Liquidated Damages: \$4,000 per day

Points of Interest: This contractor is continuing to grade in a large cut on the North end of the project. In the next several days they plan to install a temporary rockfall control fence on the South end and begin grading a cut there. Some other items to review are the difficulty for the contractor to find waste sites, and pipe issues.

<u>Day 2</u>

Project: R-2518A & R-2518B

Description: US-19 from I-26 in Madison Co. to SR-1336 in Yancey Co. Resident Engineer: Randy McKinney, PE Contractor: Taylor & Murphy, Inc.& Young & McQueen Bid Amount: \$108 million Work began: September 2, 2008 Current Progress: 0.0% Completion date (Contract): October 15, 2012 Liquidated Damages: \$4,000 per day Points of Interest: Work has just begun with installation of work zone signs, clearing & grubbing, and installation of erosion control measures. Roadside Environmental personnel will be on-site to discuss the environmental issues including the Japanese

Knotweed (Polygonum cuspidatum).

Project: R-2813B

Description: Design-Build; NC-146 from West of SR-3501 to East of I-26. Resident Engineer: Cole Hood, PE Contractor: Wright Bros. Construction Co., Inc. Bid Amount: \$54 million Work began: April 30, 2007 Current Progress: 31.0% Completion date (Contract): October 10, 2010 Liquidated Damages: \$2,800 per day Points of Interest: This is an urban widening with a single point interchange @ I-26. Off-site construction has turned water through two 36" pipes onto R/W at the toe of a MSE wall.

Project: I-5005A Description: I-26 from MM 37.1 to MM 50.3 Resident Engineer: Keith Brazell Contractor: APAC-Atlantic, Inc. Bid Amount: \$20 million Work began: May 27, 2008 Current Progress: 14.8% Completion date (Contract): October 1, 2009 Liquidated Damages: \$1,500 per day Points of Interest: Night work removing and replacing concrete slabs using high-early strength concrete. The contractor is limited by the part of the state of

strength concrete. The contractor is limited by the contract to making concrete slabs repairs and placing traffic on the slabs by 6 a.m. every day. There are many issues with the specified mix of 400 flexural psi in 4 hours. The limited time of workability and concerns about strength gain during cold weather pours are two of the biggest concerns of the contractor.

<u>Day 3</u>

Project: I-5003 Description: I-40 from MM 119 in Burke Co. to MM 146 in Iredell Co. Resident Engineer: Anne Schley Contractor: Maymead, Inc. Bid Amount: \$28 million Work began: April 28, 2008 Current Progress: 12.2% Completion date (Contract): June 30, 2010 Liquidated Damages: \$2,000 per day Points of Interest: Concrete slab removal and replacement with asphalt, then placing nova chip on the jointed concrete section. Asphalt paving over the continuously reinforced concrete.

Project: I-4411

Description: Intersection of I-77 and SR-1102(Langtree Rd.) Resident Engineer: John Cook Contractor: REA Contracting, LLC Bid Amount: \$21 million Work began: March 5, 2007 Current Progress: 62.2% Completion date (Contract): July 15, 2009 Liquidated Damages: \$2,000 per day Points of Interest: Adding a new interchange on I-77 and constructing roundabouts.

Project: R-2248D

Description: I-485 from East of SR-2042 to East of NC-115 Resident Engineer: Rick Baucom Contractor: Skanska USA Civil Southeast, Inc. Bid Amount: \$94 million Work began: January 13, 2004 Current Progress: 95.3% Completion date (Contract): December 31, 2007 Liquidated Damages: \$10,000 per day Points of Interest: The contractor will be possibly paving, installing guardrail and ITS

items, and concrete paving. Also, we will be reviewing a pipe failure using Method B construction due to a plan error.





MICHAEL F. EASLEY GOVERNOR

FROM:

DATE:

LYNDO TIPPETT Secretary

MEMO TO: Roadway Design Project Engineers

Jay A. Bennett, PE
October 21, 2008

SUBJECT: Concrete Transitional Section for Catch Basins and Drop Inlets

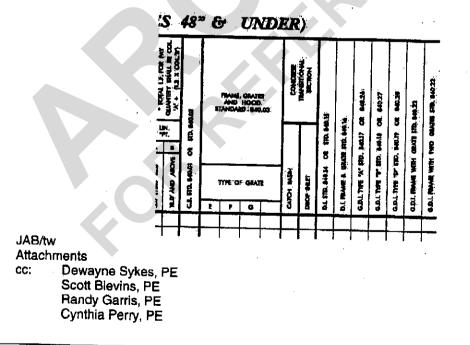
Beginning with the January 20, 2009 Letting, two additional pay items have been added to Transport:

Concrete Transitional Section for Catch Basins - Per Each Concrete Transitional Section for Drop Inlets - Per Each.

The Drainage Summary Sheets in the cell library have been modified to reflect the changes. Please begin using the new Drainage Summary Sheets with the January 20, 2009 Letting.

For additional information on the Concrete Transitional Section see Randy Garris's memo dated August 26, 2008 located on the Roadway webpage at: http://ncdot.gov/doh/preconstruct/highway/roadway/policymemos/Design/concretetransition.pdf

If you have any additional question, please call Jay A. Bennett, PE at (919) 250-4016.

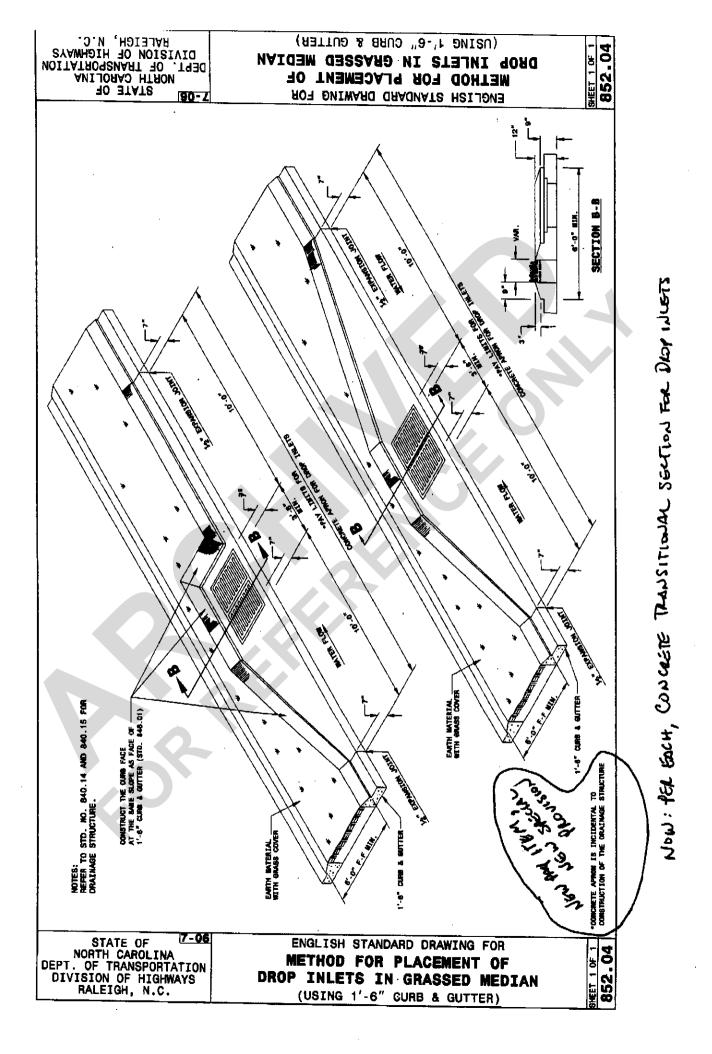


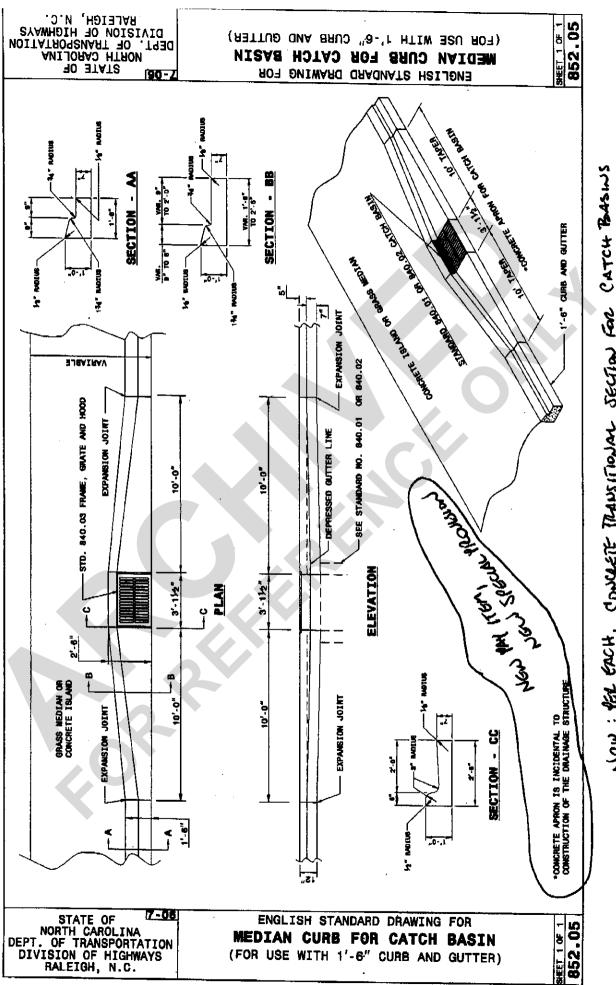
MAILING ADDRESS: NC DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN UNIT 1582 Mail SERVICE CENTER RALEIGH NC 27699-1582

TELEPHONE: 919-250-4016 FAX: 919-250-4036

WEBSITE: WWW.NCDOT.ORG/DOH

LOCATION: CENTURY CENTER COMPLEX BUILDING A 1000 BIRCH RIDGE DRIVE RALEIGH NC





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