



Received

SEP 14 2017

HNTB Corporation
Round Rock

WILLIAMSON COUNTY, TEXAS
CHANGE ORDER NUMBER: 5

1. CONTRACTOR: DeNucci Constructors
2. Change Order Work Limits: Sta. various locations to Sta. various locations
3. Type of Change(on federal-aid non-exempt projects): Min (Major/Minor)
4. Reasons: 3F (3 Max. - In order of importance - Primary first)

Project:	<u>1604-068</u>
Roadway:	<u>Forest North Drainage Ph 1</u>
CSJ Number:	<u></u>

5. Describe the work being revised:

3F: County Convenience. Additional work desired by the County. This Change Order revises drainage work in the Braeburn, Stillforest and Wisterwood Zones. The cost of the additional work was paid by overrunning existing pay items where possible or for work not covered by an existing pay item, the cost of the work was tracked by force account (time and materials).

6. Work to be performed in accordance with Items: See attached.
7. New or revised plan sheet(s) are attached and numbered: SF3,SF5-6,SF9,SF11,SF13,SF17,SF21,WW1, WW3-16
8. New Special Provisions/Specifications to the contract are attached: Yes No
9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.

The following information must be provided

Time Ext. #: N/A Days added on this CO: 0

Amount added by this change order: \$65,103.79

THE CONTRACTOR

Date 9/13/17

By

Typed/Printed Name

Typed/Printed Title

Paul T. DeNucci
MANAGER

RECOMMENDED FOR EXECUTION:

James D. F. P.E. 9/14/17
Project Manager Date

N/A
Design Engineer Date

9/14/17 9/15/2017
Program Manager Date

Design Engineer's Seal:

see Revised Plan Sheets

County Commissioner Precinct 1 Date
APPROVED REQUEST APPROVAL

County Commissioner Precinct 2 Date
APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Judge Date
☐ APPROVED

Project # 1604-068

[illegible]

				ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
110 6002	EXCAVATION (CHANNEL)	CY	\$3.00	2,868.00	\$8,604.00	(264.00)	2,604.00	\$7,812.00	(\$792.00)
402 6001	TRENCH EXCAVATION PROTECTION	LF	\$10.00	3,450.00	\$34,500.00	352.00	3,802.00	\$38,020.00	\$3,520.00
464 6003	RC PIPE (CL III)(18 IN)	LF	\$55.00	1,968.00	\$108,240.00	756.00	2,724.00	\$149,820.00	\$41,580.00
464 6005	RC PIPE (CL III)(24 IN)	LF	\$65.00	1,310.00	\$85,150.00	716.00	2,026.00	\$131,690.00	\$46,540.00
464 6008	RC PIPE (CL III)(36 IN)	LF	\$95.00	1,579.00	\$150,005.00	85.00	1,664.00	\$158,080.00	\$8,075.00
465 6126	INLET (COMPL)(PSL)(FG)(3FTX3FT-3FTX3FT)	EA	\$3,800.00	31.00	\$117,800.00	12.00	43.00	\$163,400.00	\$45,600.00
465 6127	INLET (COMPL)(PSL)(FG)(4FTX4FT-3FTX3FT)	EA	\$4,200.00	19.00	\$79,800.00	9.00	28.00	\$117,600.00	\$37,800.00
465 6128	INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX4FT)	EA	\$4,800.00	10.00	\$48,000.00	(1.00)	9.00	\$43,200.00	(\$4,800.00)
465 6130	INLET (COMPL)(PSL)(FG)(3FTX5FT-3FTX5FT)	EA	\$4,800.00	0.00	\$0.00	2.00	2.00	\$9,600.00	\$9,600.00
467 6358	SET (TY II) (18 IN) (RCP) (4: 1) (C)	EA	\$2,400.00	17.00	\$40,800.00	(4.00)	13.00	\$31,200.00	(\$9,600.00)
467 6359	SET (TY II) (18 IN) (RCP) (4: 1) (P)	EA	\$2,400.00	69.00	\$165,600.00	(5.00)	64.00	\$153,600.00	(\$12,000.00)
467 6363	SET (TY II) (18 IN) (RCP) (6: 1) (P)	EA	\$2,800.00	22.00	\$61,600.00	(22.00)	0.00	\$0.00	(\$61,600.00)
467 6391	SET (TY II) (24 IN) (RCP) (4: 1) (P)	EA	\$3,300.00	12.00	\$39,600.00	(12.00)	0.00	\$0.00	(\$39,600.00)
467 6394	SET (TY II) (24 IN) (RCP) (6: 1) (C)	EA	\$3,800.00	15.00	\$57,000.00	(15.00)	0.00	\$0.00	(\$57,000.00)
467 6423	SET (TY II) (30 IN) (RCP) (6: 1) (P)	EA	\$4,800.00	1.00	\$4,800.00	5.00	6.00	\$28,800.00	\$24,000.00
530 6004	DRIVEWAYS (CONC)	SY	\$105.00	2,582.00	\$271,110.00	62.00	2,644.00	\$277,620.00	\$6,510.00
531 6001	CONC SIDEWALKS (4")	SY	\$42.00	455.00	\$19,110.00	111.00	566.00	\$23,772.00	\$4,662.00
502-WC01	BARRICADES, SIGNS AND TRAFFIC HANDLING	DAY	\$106.67	0.00	\$0.00	10.00	10.00	\$1,066.70	\$1,066.70
999-WC01	RFI #10: REMOVE SET'S AND RAISE PIPE; NW MOORBERRY / WOODTHORPE	LS	\$2,612.82	0.00	\$0.00	1.00	1.00	\$2,612.82	\$2,612.82
999-WC02	RFI #13: ADJUST INLETS; BROADMEADE / BRAEBURN GLEN	LS	\$2,722.99	0.00	\$0.00	1.00	1.00	\$2,722.99	\$2,722.99
999-WC03	RFI #15: REMOVE SET, ADD PIPE AND JCTBOX; NE MOORBERRY / WOODTHORPE	LS	\$4,289.07	0.00	\$0.00	1.00	1.00	\$4,289.07	\$4,385.91
999-WC04	RFI #22 & #24: PIPE UG; BROADMEADE AND BRAEBURN GLEN	LS	\$2,074.33	0.00	\$0.00	1.00	1.00	\$2,074.33	\$2,074.33
999-WC05	RFI #23: PIPE UG; STILLFOREST AND TOTTENHAM	LS	\$9,229.58	0.00	\$0.00	1.00	1.00	\$9,229.58	\$9,746.04
	TOTALS				\$1,291,719.00			\$1,356,209.49	\$65,103.79

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

Williamson County Road Bond Program

Forest North Phase 1 Williamson County Project No. 1604-068

Change Order No. 5

Reason for Change

This Change Order revises drainage work in the Braeburn, Stillforest and Wisterwood Zones. The cost of the additional work was paid by overrunning existing pay items where possible or for work not covered by an existing pay item, the cost of the work was tracked by force account (time and materials).

Braeburn Zone – RFI#10. Slopes adjacent to inlet and along the west side of Woodthorpe were steeper than 3:1. The solution was to raise the inlet and install pipe in the ditch to eliminate slopes steeper than 3:1. The additional work included removing existing safety end treatments, installing pipe, raising an inlet and re-grading above the new pipe. Pipe installation was paid under an existing pay item. A new pay item was added to pay for removal of safety end treatments, raising the area inlet and re-grading.

Stillforest Zone – RFI#12. Work identified in the original plans for Chatterton Court was deleted from the contract, due to the unavailability of a temporary construction easement. Storm sewer pipe, driveway construction, concrete sidewalk and safety end treatments were removed from the contract.

Braeburn Zone – RFI#13. Ditch slopes adjacent to inlets along Broadmeade Avenue were steeper than 3:1. The solution was to cap one of the inlets and raise the other inlet to eliminate slopes steeper than 3:1. The additional work included constructing a concrete cap on an inlet, raising an inlet and re-grading the ditch. A new pay item was required to pay for this work.

Stillforest Zone – RFI#14. The storm sewer pipe alignment changed and was lengthened to meet the requirements of the right-of-way acquisition agreement between County and property owners. The existing pay item for the storm sewer pipe was overrun to pay for this work.

Braeburn Zone – RFI#15. Ditch slopes along the east side of Woodthorpe were steeper than 3:1. The solution was to install pipe in the ditch along Woodthorpe, remove and regrade original storm sewer pipe street crossing, install a junction box that connects the new pipe to the existing pipe and the installation of a new area inlet located near driveway along Moorberry Street. The pipe installation and the area inlets were paid under existing pay items. A new pay item was added to pay for the removal of an existing safety end treatment, haul-off of pipe that was removed, and placement of flowable backfill for the new pipe that crosses the street.

Stillforest Zone – RFI#20. Ditch slopes along Stillforest Street were steeper than 3:1. The solution was to change the drainage design from an above ground ditch to an underground pipe drainage system. The changes included deleting safety end treatments on driveway culvert pipes, adding storm sewer pipe and area inlets. Existing pay items were used to pay for the additional pipe and area inlets. Safety end treatments on driveway culverts were deleted.

Wisterwood Zone – RFI#22. Ditch slopes along Broadmeade were steeper than 3:1. The solution was to change the drainage design from an above ground ditch to an underground pipe drainage system. The changes include deleting safety end treatments on driveway/sidewalk culvert pipes, adding storm sewer pipe and area inlets. Existing pay items were used to pay for the additional pipe and area inlets. Safety end treatments on driveways and sidewalks were deleted. A new pay item was added to pay the Contractor for a manhole base that was on the project but not used in the final design and to pay for concrete connection collars.

Stillforest Zone – RFI#23. This RFI Refers to RFI#20 and changed the drainage system along Stillforest Street. Storm sewer pipe grades were changed after relocation of City of Austin waterline was completed across Tottenham Court. The changes required storm sewer pipe to be installed under an existing waterline. Existing pay items were used to pay for additional trench excavation protection. A new pay item was added to pay for work under the existing waterline and to adjust area inlets.

Wisterwood Zone – RFI#24. Storm sewer pipe was extended through existing driveways located on Braeburn Glen. Area inlets were raised and the locations were adjusted. An inlet was also added. Existing pay items were used to pay for this additional work.

The following is a summary of new items required for this change order.

ITEM	DESCRIPTION	QTY	UNIT
465 6130	INLET (COMPL)(PSL)(FG)(3FTX5FT-3FTX5FT)	2	EA
502-WC01	BARRICADES, SIGNS AND TRAFFIC HANDLING	10	DAY
999-WC01	RFI #10: REMOVE SET'S AND RAISE PIPE; NW MOORBERRY / WOODTHORPE	1	LS
999-WC02	RFI #13: ADJUST INLETS; BROADMEADE / BRAEBURN GLEN	1	LS
999-WC03	RFI #15: REMOVE SET, ADD PIPE AND JCTBOX; NE MOORBERRY / WOODTHORPE	1	LS
999-WC04	RFI #22 & #24: PIPE UG; BROADMEADE AND BRAEBURN GLEN	1	LS
999-WC05	RFI #23: PIPE UG; STILLFOREST AND TOTTENHAM	1	LS

This Change Order results in a net increase of \$65,103.79 to the Contract amount, for an adjusted Contract total of \$3,862,435.72. The original Contract amount was \$3,556,659.50. Due to all Change Orders to-date, \$305,776.22 has been added to the Contract. These changes result in an 8.60% net increase to the Contract cost. The City of Austin will reimburse the County \$149,741.78 (4.21%) for waterline changes and the remaining \$156,034.44 (4.39%) is due to County storm sewer changes. Zero (0) additional days will be added to the Contract as a result of this Change Order.

HNTB Corporation

James Klotz, P.E.

From: paul@denucciconstructors.com
Sent:
To:
Cc:

Subject:

Hi Eddie - Here are the unit prices:

~~48" SS Manhole complete: \$3800.00~~ *New Item*
 3 x 5, 3x5 Inlet complete: \$4,800.00 *→ (465-6130)*

Paul T. DeNucci
 DeNucci Constructors, LLC
 8310-1 Cap Tx Hwy N. Ste 275
 Austin, Texas 78731
 512-335-0600
 512-342-0600 fax
 512-658-3986 cell
 paul@denucciconstructors.com
 www.denucciconstructors.com

----- Original Message -----

Subject: RE: Forest North RFI #22 and RFI #24
 From: "Eddie R. Church" <erchurch@HNTB.com>
 Date: Tue, July 18, 2017 2:27 pm
 To: "paul@denucciconstructors.com" <paul@denucciconstructors.com>
 Cc: Christen Eschberger <ceschberger@HNTB.com>, Clayton Weber
 <cweber@HNTB.com>, Ryan Rivera <rrivera@HNTB.com>, Dawn Haggard
 <dhaggard@HNTB.com>, "nancyc@denucciconstructors.com"
 <nancyc@denucciconstructors.com>, 62811_1604-068_ForestNorthPh1
 <ForestNorthPh1@HNTB.com>, James Klotz <jklotz@HNTB.com>

Paul,

Per the response and revised plan sheets for RFI's #22 and #24, please provide a cost proposal (COP) for the following new Contract items.

ITEM	DESCRIPTION		UNIT	QUANTITY
465 6002	MANH (COMPL)(PRM)(48IN)		EA	1.00
465 6130	INLET (COMPL)(PSL)(FG)(3FTX5FT-3FTX5FT)		EA	2.00

REQUEST FOR INFORMATION FORMRFI NO.: 10DATE: 3/27/17PROJECT: Forest North Drainage Improvements

RESPONSE REQUESTED BY

DATE: 3/30/17TO: Ryan Rivera**REFERENCE:** Area Inlet BB200-Sheet 16 (Braeburn Glen Zone)**PROBLEM:**

BB 200 and the driveway pipe for Driveway #10 have been installed per plan. The slope between BB 200 and the EOP for Woodthorpe is steeper than a 3:1. The distance between BB 200 and the EOP is 7' 4" with an elevation difference of 3.21'. FYI, There is also a fire hydrant line that has been installed upstream (10' north) from BB 200 on Woodthorpe with a top of pipe elevation of 890.45 that ties into the main. I have attached a sketch and a photo of the area and issue.

RECOMMENDED SOLUTION:

Please advise.

Ryan Rivera HNTB
Originator

Clayton Weber
Supervisor

RESPONSE:

Two potential solutions were presented for this location: to add riprap to the slopes exceeding 3:1 or revising the storm sewer configuration to raise the inlet. Per the RDM, guardrail would not be required at this location with the installation of the riprap. At the direction of the GEC, the storm sewer will be revised as shown in the attached.

Victoria Ortega, PE, KFA
Responder

4/11/2017
Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 100
Round Rock, Texas 78664

Attachments to RFI: 7 revised plan sheets.

Cc:

Item 999-COP10

CHANGE ORDER PROPOSAL

Contractor: DeNucci Constructors, LLC.
 Project Name: Forest North Drainage Improvements JOB #1604-068 AWW# W-2016-3212.146
 Change Order Proposal Number: 10 Date: 4/26/2017

Description: Per RFI #10: Revise Storm sewer line BB26, remove (3) SETS and clean; extend pip; , replace SETS with new ramneck; add 97 LF of 18" RCP and raise Inlet BB200. Backfill over pipe with topsoil and compact.

Labor:

Position	Quantity	RT Hrs	OT Hrs	RT Rate	OT Rate	Total
General Superintendent				\$48.23		\$0.00
Superintendent Utilities	1	8		\$44.29		\$354.32
Superintendent Concrete				\$31.00		\$0.00
Operators	1	8		\$22.00		\$176.00
Pipe Layer	1	8		\$18.00		\$144.00
Pipe Layer	1	8		\$17.50		\$140.00
Laborer - Utility	1	8		\$18.50		\$148.00
Laborer - Concrete	1	3		\$22.00		\$66.00
Concrete Form Setter	1	3		\$21.50		\$64.50
Concrete Finisher	1	3		\$25.00		\$75.00
Truck Driver				\$35.00		\$0.00
Surveyors				\$20.50		\$0.00
Subtotal						\$1,176.82

Material

Description	Quantity	Unit	Rate	Total
1.5' 3x3 Inlet riser	1	ea		\$225.00
		days		\$0.00
				\$0.00
				\$0.00
Subtotal				\$225.00

Subcontractors/Vendors:

Description	Total

Unit Pricing

464-6003

Description	Quantity	Unit	Price	Total
18" RCP	97	LF	\$55.00	\$5,335.00
Traffic Control	0.13	MO	\$3,200.00	\$416.00
				\$0.00
				\$0.00
Subtotal				\$5,751.00

Equipment:

Description	Quantity	Unit	Operating Cost/Hour	Standby Rate	Total
314 Excavator	4	Hours	\$71.59		\$286.36
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Subtotal					\$286.36

Labor		1175.82	
Labor Burden	55%	646.70	\$1,175.82
Labor P & O	15%	176.37	\$646.70
Material		225.00	\$176.37
Material P & O	15%	33.75	\$225.00
Subcontractor		286.36	\$33.75
Subcontractor P & O	5%	47.95	\$0.00
Bid Item			\$0.00
Equipment		2586.95	\$5,751.00
Equipment P&O	15%		\$286.36
Bond	1%	25.87	\$42.85
TOTAL			\$8,295
			\$8,420.91

Additional days requested: 4

\$ 2,612.82

REQUEST FOR INFORMATION FORM

RFI NO.: 13DATE: 3/29/17PROJECT: Forest North Drainage ImprovementsRESPONSE REQUESTED BY
DATE: 4/5/17TO: Vicki Ortega

REFERENCE: Braeburn Zone Plan regarding area inlet BB 107, BB108, various plan sheets in this zone.

PROBLEM:

Slopes adjacent to inlets BB107 and BB108 are not 3:1 due to sidewalk that is located along Broadmeade. Slope along sidewalk is steeper than 1:1.

RECOMMENDED SOLUTION:

1. Due to an existing sidewalk along Broadmeade the inlet grate elevation does not provide a 3:1 slope from the edge of the side walk to the inlet. In review of the drainage area the inlet is 1.92' lower than the nearest edge of pavement or driveway. With that in mind it appears that the grate can be raised to provide safe slopes.
2. Backfill and cover inlet BB107 to provide safe slopes and convey drainage to inlet BB108. BB108 also needs to be raised to provide 3:1 slopes adjacent to sidewalk.

Clayton Weber

Originator

Christen Eschberger

Supervisor

RESPONSE:

Backfill and cover inlet BB107 to convey drainage to inlet BB108. Raise the elevation of inlet BB108 to 888.50'. The slope of the channel from Driveway 1 should be consistent to BB107 and a consistent grade from BB107 to BB108 to maintain positive drainage.

Inlet BB108 has already been installed and there is approximately 20 inches from the existing sidewalk edge to BB108 and 12 inches of clearance from the edge of the concrete inlet to the metal frame of the inlet grate. It is recommended that a concrete riprap slope (3:1) be doweled in from the sidewalk into the edge and approximately 4 inches horizontally over the top of the inlet box to maintain the required 3:1 slope (see detail).

Victoria Ortega, PE, KFA

Responder

4/11/2017

Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 100
Round Rock, Texas 78664

Attachments to RFI:
Cc:

CHANGE ORDER PROPOSAL

Contractor:

DeNucci Constructors, LLC.

Project Name:

Forest North Drainage Improvements JOB #1604-068 AWW# W-2016-3212.146

Change Order Proposal Number:

7

Date: 4/13/2017

Description:

Cap inlet BB107; Raise Inlet BB108; Place Concrete Rip Rap at BB108. Per RFI 13

Labor:

Position	Quantity	RT Hrs	OT Hrs	RT Rate	OT Rate	Total
General Superintendent				\$49.23		\$0.00
Superintendent Utilities	1	4		\$44.29	✓	\$177.16
Superintendent Concrete	1	4		\$31.00		\$124.00
Operators	1	4		\$22.00	✓	\$88.00
Pipe Layer	1	4		\$20.00	✓	\$80.00
Pipe Layer	1	4		\$19.00	✓	\$76.00
Laborer - Utility	1	4		\$18.50	✓	\$74.00
Laborer - Concrete	1	4		\$22.00	✓	\$88.00
Concrete Form Setter	1	4		\$21.50	✓	\$86.00
Concrete Finisher	2	4		\$25.00	✓	\$200.00
Truck Driver				\$35.00		\$0.00
Surveyors				\$20.50		\$0.00
Subtotal						\$993.16

* need
D/C

Material

Description	Quantity	Unit	Rate	Total
Grout and Bricks	1	LS	\$250.00	\$250.00
Concrete	3	CY	\$90.50	\$271.50
				\$0.00
				\$0.00
Subtotal				\$521.50

Subcontractors/Vendors:

Description		Total
Subtotal		\$0.00

Unit Pricing

Description	Quantity	Unit	Price	Total
				\$0.00
				\$0.00
				\$0.00
Subtotal				\$0.00

Equipment:

Description	Quantity	Unit	Operating Cost/Hour	Standby Rate	Total
303 Mini Excavator	4	Hours	\$18.41		\$73.64
938 Loader	4	Hours	\$70.27		\$281.08
Hydraulic Hammer	0	Hours	\$54.36		\$0.00
					\$0.00
					\$0.00
Subtotal					\$354.72

Labor		
Labor Burden	55%	\$993.16
Labor P & O	15%	\$546.24
Material		\$148.97
Material P & O	15%	\$521.50
Subcontractor		\$78.23
Subcontractor P & O	5%	\$0.00
Bid Item		\$0.00
Equipment		\$0.00
Equipment P&O	15%	\$354.72
Bond	1%	\$53.21
TOTAL		\$2,722.99

Additional days requested: 3

REQUEST FOR INFORMATION FORM

RFI NO.: 15 revisedDATE: 4/19/17PROJECT: Forest North Drainage Improvements

RESPONSE REQUESTED BY

DATE: 5/2/17TO: Vicki Ortega**REFERENCE:** Channel BB2-1 - Sheet 14 (Braeburn Glen Zone)**PROBLEM:**

Channel BB2-1 ditch slopes are steeper than 3 to 1 between Sidewalk 9S and Culvert C-17. Both the front and back slopes were field measured and range between 2.1 to 1 and 2.7 to 1. See Detail A on attached sheet BB5 of BB19. Please advise on solution to ensure Channel BB2-1 drains into Culvert C-17 and associated slopes are not steeper than 3 to 1. Please provide revised plan sheet and grades.

RECOMMENDED SOLUTION:

Please Advise.

Eddie Church

Originator

Clayton Weber

Supervisor

RESPONSE:

Preferred Option #2) This option has the inlet placed further east where there is more space to grade in the ROW. In this scenario, we've buried the top of junction box since we cannot fit the smallest TxDOT grate within the ROW with the constraints of no riprap and grade ties in the temporary easement.

Victoria Ortega, PE, KFA

Responder

5/2/2017

Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 100
Round Rock, Texas 78664

Attachments to RFI:

Cc:

CHANGE ORDER PROPOSAL

Contractor: DeNucci Constructors, LLC.

Project Name: Forest North Drainage Improvements JOB #1604-068 AWW# W-2016-3212.146

Change Order Proposal Number: COP 13 REV 1 Date: 7/13/2017

Description:

Costs associated with RFI # 15 (revised). Work includes adding 95 LF of 18" RCP, 3x3 Junction Box, 3x3 Inlet, Remove 1 SET, Demo, Remove and haul-off 22 LF of RCP pipe encased under flowable fill under street. Braeburn Zone

Labor:

Position	Quantity	RT Hrs	OT Hrs	RT Rate	OT Rate	Total
General Superintendent				\$49.23		\$0.00
Superintendent Utilities	1	6		\$44.28		\$265.68
Superintendent Concrete				\$31.00		\$0.00
Operator	1	6		\$22.00		\$132.00
Operator				\$19.50		\$0.00
Pipe Layer	1	6		\$18.00		\$108.00
Pipe Layer	1	6		\$19.00		\$114.00
Pipe Layer	1			\$20.00		\$0.00
Laborer - Utility				\$17.00		\$0.00
Laborer - Utility	1	6		\$18.50		\$111.00
Laborer - Concrete				\$22.00		\$0.00
Concrete Form Setter				\$21.50		\$0.00
Concrete Finisher				\$25.00		\$0.00
Truck Driver	1	3		\$20.00		\$60.00
Surveyors				\$20.50		\$0.00
Subtotal						\$790.68

Material

Description	Quantity	Unit	Rate	Total
3 x 3 Junction Box	1	EA	1693.53	\$1,693.53
				\$0.00
				\$0.00
				\$0.00
Subtotal				\$1,693.53

Subcontractors/Vendors:

Description	Total

Unit Pricing

Description	Quantity	Unit	Price	Total
Traffic Control	0.07	mo	\$3,200.00	\$224.00
3 x 3 Inlet	1	EA	\$3,800.00	\$3,800.00
18" RCP	95	LF	\$55.00	\$5,225.00
				\$0.00
Subtotal				\$9,249.00

} Existing Items

Equipment:

Description	Quantity	Unit	Operating Cost/Hour	Standby Rate	Total
314 Excavator	3	Hours	\$71.59		\$214.77
938 Loader	3	Hours	\$70.27		\$210.81
Hydraulic Hammer	3	Hours	\$54.38		\$163.14
Dump Truck	0.5	Day	\$650.00		\$325.00
					\$0.00
					\$0.00
Subtotal					\$913.72

Labor		\$790.68	✓
Labor Burden	55%	\$434.87	✓
Labor P & O	15%	\$118.60	✓
Material		\$1,693.53	✓
Material P & O	15%	\$254.03	✓
Subcontractor		\$0.00	
Subcontractor P & O	5%	\$0.00	
Bid Item		\$9,249.00	X
Equipment		\$913.72	
Equipment P&O	15%	\$137.06	
Bond	1%	\$134.54	
TOTAL		\$13,726.03	

\$4385.91

Additional days requested: 4



REQUEST FOR INFORMATION FORM

RFI NO.: 20 DATE: 4/26/17
PROJECT: Forest North Drainage Improvements - RESPONSE REQUESTED BY
Phase 1 DATE: 5/5/17
TO: Charlotte Gilpin, Vicki Ortega

REFERENCE: sheet C-137

PROBLEM:

In review of the Stillforest ROW widths versus the ditch slopes and proposed driveways, the attached calculations show that the proposed ditches will be steeper than 3:1. Please provide a solution that will allow for ditch slopes flatter than 3:1. The data provided from the tables on sheet SF17 was used to evaluate the ROW needed at each of the driveway locations along Stillforest Street.

RECOMMENDED SOLUTION:

Please advise and ensure slopes still meet 3:1 requirement. Also, note that this zone is next on the construction schedule and is on the Critical Path.

Eddie Church
Originator

Christen Eschberger
Supervisor

RESPONSE:

Two potential solutions were presented for this location: regrade the channel and install 18" RCP for the driveway and cross culverts from Tottenham Ct to Chatterton Ct and install storm sewer from Chatterton Ct to Meadowheath Dr or install storm sewer from Tottenham Ct to Meadowheath Dr. At the direction of the GEC, the storm sewer will be installed from Tottenham Ct to Meadowheath Dr as shown in the attached.

Victoria Ortega, PE, KFA
Responder

5/10/2017
Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 100
Round Rock, Texas 78664

Attachments to RFI:
Cc:

REQUEST FOR INFORMATION FORM

RFI NO.: 22DATE: 5/11/17PROJECT: Forest North Drainage Improvements - Phase 1RESPONSE REQUESTED BY
DATE: 5/16/17TO: Charlotte Gilpin, Vicki Ortega

REFERENCE: Sheets WW1, WW6-8, WW16

PROBLEM:

In review of the Broadmeade ROW widths versus the ditch slopes in the Wisterwood Zone, the attached calculations show that the proposed ditches will be steeper than 3:1. Please provide a solution that will allow for ditch slopes flatter than 3:1. The data provided from the tables on sheet WW16 was used to evaluate the ROW needed at each of the driveway locations along Broadmeade Avenue. Please advise and ensure slopes still meet 3:1 requirement. Also, note that this zone is next on the construction schedule and is on the Critical Path.

RECOMMENDED SOLUTION:

A cost evaluation was done for installation of the drainage system to be underground from Kensington Street to Driveway 8 along Broadmeade Avenue. Please verify the recommended solution and provide an updated estimate.

Eddie Church
Originator

Christen Eschberger
Supervisor

RESPONSE:

Revised from response issued 5/16/17.

The proposed solution includes adjusting the flowlines of the system to achieve 3:1 side slopes at the intersection of Kensington and Broadmeade and converting the entire system to storm sewer per GEC provided direction June 10, 2017.

The proposed design revisions are shown on the attached plans and include revisions for RFI #24 and the quantity adjustment sheets.

GEC comments recieved 6/30/17. Revised set attached.

Charlotte Gilpin, PE, KFA
Responder

7/3/2017
Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 100
Round Rock, Texas 78664

Attachments to RFI:
Cc:

REQUEST FOR INFORMATION FORM

RFI NO.: 24 DATE: 6/14/17
PROJECT: Forest North Drainage Improvements RESPONSE REQUESTED BY
DATE: 6/21/17
TO: Vicki Ortega, K Friese

REFERENCE: WW15, WW15 & WW1

PROBLEM:

The 24" pipe culvert under Driveway 16, as shown on plan sheet WW15, is close to another driveway that is not shown on the plans. Please confirm that the pipe under Driveway 16 can be extended under "Driveway 17". Since the ROW is short and the pipes are 24", please confirm that inlets and an underground system will be necessary to maintain 3:1 ditch slopes. Please provide revised sheets (WW1, 15 & 16) that give updated elevations.

RECOMMENDED SOLUTION:

Put drainage pipes underground from Inlet WW206 to south side of new "Driveway 17".

Eddie Church
Originator

Clayton Weber
Supervisor

RESPONSE:

Using field collected data, attached for reference, we have extended the storm sewer to the upstream side of Driveway 17.

Additional modifications have been made to the system to ensure side slopes are maximum 3:1 at all inlets. Revised plans are attached with RFI #22 for the entire Wisterwood system including the quantity adjustments. Current understanding is that all inlets for this system are on site. Several inlets will require adjustments. Of note is that inlet WW204 has changed from a TY PSL(FG)(4-4)(4-4) to a TY PSL(FG)(3-5)(3-5). The TY PSL(FG)(4-4)(4-4) could be used in place of a TY PSL(FG)(3-3)(3-3) inlet on the Broadmeade system where there is space for side slopes. Inlets WW200 and WW205 will require riser adjustments. Inlet WW201, WW202 are slightly reduced heights, flowable fill can be used for adjustments at these locations.

Charlotte Gilpin, PE KFA
Responder

6/29/2017
Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 100
Round Rock, Texas 78664

Attachments to RFI:
Cc:

CHANGE ORDER PROPOSAL

COP 16

Contractor: DeNucci Constructors, LLC.

Project Name: Forest North Drainage Improvements JOB #1604-068 AWW# W-2016-3212.146

Change Order Proposal Number: 16

Date: 7/31/2017

Description:

Add for (2) wood gates Haversham @ Meadowheath; Add for (2) 3x5, 3x5 inlets complete per RFI 22 & 24; Add for deleted prefabricated MH base per RFI 22 & 24; Add for re-locating 60LF of 3/4" PVC waterline at 9415 Braeburn Glen.; Add for concrete collars at deleted proposed manhole per RFI 22 & 24.

Labor:

Position	Quantity	RT Hrs	OT Hrs	RT Rate	OT Rate	Total
General Superintendent				\$49.23		\$0.00
Superintendent Utilities	1	2		\$46.50		\$93.00
Superintendent Concrete				\$31.00		\$0.00
Operator - Utility				\$20.50		\$0.00
Operator - Utility				\$23.00		\$0.00
Pipe Layer	1	3		\$19.00		\$57.00
Pipe layer	1	3		\$20.00		\$60.00
Pipe Layer				\$21.00		\$0.00
Laborer - Utility	1	3		\$18.50		\$55.50
Laborer - Utility	1	3		\$19.50		\$58.50
Laborer - Concrete				\$22.00		\$0.00
Concrete Form Setter				\$21.50		\$0.00
Concrete Finisher				\$25.00		\$0.00
Truck Driver		6		\$35.00		\$0.00
Surveyors				\$20.50		\$0.00
Subtotal						\$324.00

Material

Description	Quantity	Unit	Rate	Total
Bags - maximizer Concrete	6	Ea	\$6.85	\$41.10
SS Manhole - base only	1	EA	\$528.65	\$528.65
PVC pipe and fgs	1	LS	\$42.84	\$42.84
Subtotal				\$612.59

Subcontractors/Vendors:

Description	Total
Wood gates 2 @ 350.00 each	\$700.00
Subtotal	\$700.00

Unit Pricing

Description	Quantity	Unit	Price	Total
3 x 5, 3 x 5 Inlet complete	2	EA	\$4,800.00	\$9,600.00
				\$0.00
				\$0.00
				\$0.00
Subtotal				\$9,600.00

Equipment:

Description	Quantity	Unit	Operating Cost/Hour	Standby Rate	Total
303 Mini Excavator	3	Hours	\$18.41		\$55.23
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Subtotal					\$55.23

Labor		\$324.00
Labor Burden	55%	\$178.20
Labor P & O	15%	\$48.60
Material		\$612.59
Material P & O	15%	\$91.89
Subcontractor		\$700.00
Subcontractor P & O	5%	\$35.00
Bid Item		\$9,600.00
Equipment		\$55.23
Equipment P&O	15%	\$8.28
Bond	1%	\$116.46
TOTAL		\$11,770.25

Additional days requested: 0

465-6131
in notes

2053.79
x .01

20.54

2074.33



REQUEST FOR INFORMATION FORM

RFI NO.: <u>23</u> PROJECT: <u>Forest North Drainage Improvements</u> TO: <u>Vicki Ortega, K Friese</u>	DATE: <u>5/30/17</u> RESPONSE REQUESTED BY DATE: <u>6/5/17</u>
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REFERENCE: sheet #70 (revised per RFI# 20)

PROBLEM:

The waterline on Tottenham Court was not adjusted per plan due to an acceptable clearance (from the COA), per RFI #18, between the proposed storm crossing per original sheet #77. The flowline of the existing water line at Tottenham Court is 894.43 and the flowline of the proposed 18" RCP at the same location, per RFI #20, is 894.50.

RECOMMENDED SOLUTION:

Raise Lines SF28 and SF25 to accommodate the existing waterline that was not relocated per RFI #18 to the COA. Work has started at the north end of the Stillforest Street drainage system, as of 5/26/17.

 Ryan Rivera HNTB
 Originator

 Supervisor

RESPONSE:

There is not sufficient cover to raise the proposed storm sewer over the waterline. The storm sewer design along Stillforest Street north of Tottenham Court has been revised and is now below the existing waterline as shown on attached plans. Two segments will be slightly below the desired design frequency with these revisions.

 Victoria M Ortega, PE KFA
 Responder

 6/2/2017
 Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
 101 E Old Settlers Blvd, Ste 100
 Round Rock, Texas 78664

Attachments to RFI:
 Cc:

CHANGE ORDER PROPOSAL

Contractor: DeNucci Constructors, LLC.

Project Name: Forest North Drainage Improvements JOB #1604-068 AWW# W-2016-3212.146

Change Order Proposal Number: 15 REV 1

Date: 7/13/2017

Description:

Per RFI #23: Stillforest Zone - Lower Storm line along Tottenham Ct. Including: lowering Line SF23 12"; Lowering line SF 25 24"; Raise inlet SF22 4"; Raise inlet SF24 18"; Raise inlet SF26 24". 230 LF of trench safety systems. June 5-12 work completed.

Labor:

Position	Quantity	RT Hrs	OT Hrs	RT Rate	OT Rate	Total
General Superintendent				\$49.23		\$0.00
Superintendent Utilities	1	16		\$44.29		\$708.64
Superintendent Concrete				\$31.00		\$0.00
Operator - Utility	1	16		\$19.50		\$312.00
Operator - Utility	1	16		\$22.00		\$352.00
Pipe Layer	1	16		\$18.00		\$288.00
Pipe Layer	1	16		\$19.00		\$304.00
Laborer - Utility	1	16		\$20.00		\$320.00
Laborer - Utility	1	16		\$17.00		\$272.00
Laborer - Concrete	1	16		\$18.50		\$296.00
Concrete Form Setter				\$22.00		\$0.00
Concrete Finisher				\$21.50		\$0.00
Truck Driver	1	6		\$35.00		\$210.00
Surveyors				\$20.50		\$0.00
Subtotal						\$3,062.64

Material

Description	Quantity	Unit	Rate	Total
1' 3x3 Inlet riser	3	ea	\$166.00	\$498.00
				\$0.00
				\$0.00
				\$0.00
Subtotal				\$498.00

Subcontractors/Vendors:

Description	Total
Subtotal	\$0.00

Unit Pricing

Description	Quantity	Unit	Price	Total
Trench safety	230	LF	\$3.00	\$690.00
Traffic Control	0.06	Month	\$3,200.00	\$192.00
				\$0.00
Subtotal				\$882.00

Existing Items

Equipment:

Description	Quantity	Unit	Operating Cost/Hour	Standby Rate	Total
314 Excavator	16	Hours	\$71.59		\$1,145.44
314 Hammer	16	Hours	\$54.38		\$870.08
Dump Truck Freightliner - 18 CY	1	day	\$650.00		\$650.00
Dump Truck - Freightliner 12 CY	2	day	\$350.00		\$700.00
					\$0.00
Subtotal					\$3,365.52

Labor		\$3,062.64
Labor Burden	55%	\$1,684.45
Labor P & O	15%	\$459.40
Material		\$498.00
Material P & O	15%	\$74.70
Subcontractor		\$0.00
Subcontractor P & O	5%	\$0.00
Bid Item		\$882.00
Equipment		\$3,365.52
Equipment P&O	15%	\$504.83
Bond	1%	\$100.27 96.50
TOTAL		\$10,631.81

Additional days requested: 2

\$9746.04