Analysis of the feasibility of a 3D model for use in Civil Construction (creating a 3D model for the first span of a bridge)

A dissertation submitted by

Matthew Alan Palmer

in fulfillment of the requirements of

Courses ENG4111 and 4112 Research Project

Towards the degree of

Bachelor of Civil Engineering

Submitted: October, 2010

Volume 2
Appendix E - Correspondence
<table>
<thead>
<tr>
<th>Correspondence #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gantry locations differ between two drawings. One gantry location clashes with an existing electrical cabinet. Need clarification of co-ordinates</td>
</tr>
<tr>
<td>2</td>
<td>Navigation marker locations had to be moved, due to a natural reef in the location originally shown on the plans</td>
</tr>
<tr>
<td>3</td>
<td>Not enough information was provided on lifting loops for precast piles. Additional information requested</td>
</tr>
<tr>
<td>4</td>
<td>Balustrade panels were manufactured as per the plans. However the top and bottom rail did not take into account the lean of the panels and as such are not plumb. There is also not enough detail to manufacture the return</td>
</tr>
<tr>
<td>5</td>
<td>A gap was not left large enough for a precast item to slot into space. As such a rest area panel had to be modified to fit appropriately.</td>
</tr>
<tr>
<td>6</td>
<td>Drawings show pedestrian balustrade in the incorrect location. Behind the pedestrian posts not in front</td>
</tr>
<tr>
<td>7</td>
<td>Not enough information was given to manufacture balustrade panels.</td>
</tr>
<tr>
<td>8</td>
<td>Rest area beams were cast 15mm too long. Rest area skirts will not fit with this design. Skirts to be modified to fit.</td>
</tr>
<tr>
<td>9</td>
<td>Parapets Type 3 &amp; 13 did not have reinforcing removed for junction boxes. Due to changes to junction box locations this problem has happened again.</td>
</tr>
<tr>
<td>10</td>
<td>No detail regarding the termination of the cyclist rail</td>
</tr>
<tr>
<td>11</td>
<td>Change of RL's to give a better appearance transition at Abutment A</td>
</tr>
<tr>
<td>12</td>
<td>Reinforcing as manufactured to the wrong size. As such cover requirements cannot be met</td>
</tr>
<tr>
<td>13</td>
<td>Washer sizes were specified incorrectly</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>14</td>
<td>Two different sections ask for two different dimensions. 35mm in one section and 5mm in another for base plate for stanchions</td>
</tr>
<tr>
<td>15</td>
<td>Balustrade panels cannot be physically installed as the drawings requests.</td>
</tr>
<tr>
<td>16</td>
<td>No details for bolt or bolt grade</td>
</tr>
<tr>
<td>17</td>
<td>No rubbish bins detailed for fishing platform. No number detailed</td>
</tr>
<tr>
<td>18</td>
<td>Light pole brackets on pier 3 &amp; 75 had no allowance for slope of bridge</td>
</tr>
<tr>
<td>19</td>
<td>RL information given was incorrect at a difference of 1.5m.</td>
</tr>
<tr>
<td>20</td>
<td>Conflicting number of signs needed</td>
</tr>
<tr>
<td>21</td>
<td>Details missing for beams G21 &amp; G22</td>
</tr>
<tr>
<td>22</td>
<td>Measurements missing and conflicting from retaining wall drawing</td>
</tr>
<tr>
<td>23</td>
<td>No details provided for footing of a light pole</td>
</tr>
<tr>
<td>24</td>
<td>Conflicting plans show different number and type of bolts for gantry G17</td>
</tr>
<tr>
<td>25</td>
<td>Plans don’t show what type of conduits run through the link slab</td>
</tr>
<tr>
<td>26</td>
<td>Cover to reinforcing can’t be achieved because starter bars were placed in the wrong position due to incorrect details on the drawings</td>
</tr>
<tr>
<td>27</td>
<td>Not enough information was provided on timber and brackets for construction of the fishing platform shade area</td>
</tr>
<tr>
<td>28</td>
<td>Details provided for pedestrian balustrade connections are incorrect. If bolts and balustrade’s are at the limit of their tolerance they will not fit due to a slotted hole not being long enough.</td>
</tr>
<tr>
<td>29</td>
<td>Stainless Steel cover plates were not included in the original drawings for piers W10 &amp; W14 for the fishing platform.</td>
</tr>
<tr>
<td>30</td>
<td>Noise barrier details not included in tender set of drawings, therefore when it was detailed it was a variation to the tender price</td>
</tr>
<tr>
<td>31</td>
<td>Need details relating to parapet types on spans 24, 25, 44, 45, 55 &amp; 65. Not detailed on drawings</td>
</tr>
<tr>
<td>32</td>
<td>A discrepancy between light bracket locations on piers 30, 31 &amp; 29, 30</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>33</td>
<td>There is not enough information about a junction box for navigation lighting</td>
</tr>
<tr>
<td>34</td>
<td>Clarification on abutment wing walls required as shape does not match that of the parapets coming off the bridge</td>
</tr>
<tr>
<td>35</td>
<td>Not adequate details on stanchions on upper ramp of fishing platform, need to confirm stanchions required at light fitting locations</td>
</tr>
<tr>
<td>36</td>
<td>Need to determine hole size for water supply pipe</td>
</tr>
<tr>
<td>37</td>
<td>No details on water supply to tap in pine rivers fishing platform</td>
</tr>
<tr>
<td>38</td>
<td>Conflicting dimensions for height of top rail on fishing platform</td>
</tr>
<tr>
<td>39</td>
<td>Dimensions differ from those provided on engineering drawings</td>
</tr>
<tr>
<td>40</td>
<td>No details on material type for elastomeric bearing pads on fishing platform</td>
</tr>
<tr>
<td>41</td>
<td>No details provided for parapets on western side for span 13</td>
</tr>
<tr>
<td>42</td>
<td>Clash between hold down bolts for balustrade and parapet reinforcement</td>
</tr>
<tr>
<td>43</td>
<td>Reinforcing was scheduled incorrectly because plans were not read properly</td>
</tr>
<tr>
<td>44</td>
<td>The direction of flow in the water pipe was not detailed</td>
</tr>
<tr>
<td>45</td>
<td>No details provided as to the termination of longitudinal reinforcement between barriers on different spans</td>
</tr>
<tr>
<td>46</td>
<td>Footing for gantry G17 will clash with existing services</td>
</tr>
<tr>
<td>47</td>
<td>Not enough detail regarding starter bars in link slabs in east, central and west barrier</td>
</tr>
<tr>
<td>48</td>
<td>Pedestal level on Abutment is incorrect</td>
</tr>
<tr>
<td>49</td>
<td>Drainage conduit was omitted from precast seawalls</td>
</tr>
<tr>
<td>50</td>
<td>Starter bars in the headstock were overlooked</td>
</tr>
<tr>
<td>51</td>
<td>Detail is missing about a blackout for a storm water drain through a seawall</td>
</tr>
<tr>
<td>52</td>
<td>Chainage lengths are conflicting along the underpass</td>
</tr>
<tr>
<td>53</td>
<td>Bolt lengths not given on drawings</td>
</tr>
<tr>
<td>54</td>
<td>Side restraint bearing pads won’t fit as construction tolerances were not allowed for in the plans</td>
</tr>
<tr>
<td>55</td>
<td>Drainage scuppers were cast too high and adequate drainage is not feasible</td>
</tr>
<tr>
<td>56</td>
<td>Dimensions for balustrade panels are detailed too long. They will not fit into the space allowed for</td>
</tr>
<tr>
<td>Page</td>
<td>Issue Description</td>
</tr>
<tr>
<td>------</td>
<td>------------------</td>
</tr>
<tr>
<td>57</td>
<td>Dimensions missing to properly locate the light pole for the underpass</td>
</tr>
<tr>
<td>58</td>
<td>Cast in bolts had to be moved due to a clash with reinforcing in the headstock</td>
</tr>
<tr>
<td>59</td>
<td>Conflicting information with regards to the location of light pole brackets</td>
</tr>
<tr>
<td>60</td>
<td>Conduit size was not detailed correctly, conflicting dimensions across two plans</td>
</tr>
</tbody>
</table>
Correspondence # 1
Our Reference: ac/2113

5th August 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 293 – Gantry G17 Location

We refer to drawings 405253 Rev E & 405255 Rev E.

There may be a discrepancy regarding the proposed location of Gantry G17. The co-
ordinates given on drawing 405255 Rev E show that Pile DP6 will clash with the existing
switchboard / cabinet. These pile locations are shown on the topographical layout sketch
attached here.

The general arrangement (drawing 405253 Rev E) shows Gantry G17 in a different
location, approximately 5m to the north of the switchboards.

Please note that these switchboards are currently live and form part of the supply to the
light poles on the bridge.

Please confirm if the supplied co-ordinates are correct

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 2
Our Reference: map/2083

14\textsuperscript{th} July 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Relocation of Navigation Markers

We would like to confirm the location of Navigation Markers as per the attached sketch. Previous correspondence (Our reference 2072 dated 6/7/2010) expressed concern with the location of these markers at the mid point of span 72. Following the site inspection between Pares Zimmer and Ross Trevor from Maritime Safety Queensland, Roger Slack from Department of Main Roads and Clayton Smith from The Hull Albem Joint Venture, it was decided to relocate the markers to 17m south of Pier 71 on the eastern side, and 7m north of Pier 71 on the western side.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

\textbf{Clayton Smith}

Clayton Smith
\textbf{Hull Albem Joint Venture}
Houghton Highway Duplication Project
Correspondence # 3
Houghton Project Site Office

From: stuart.j.reeves@tmr.qld.gov.au
Sent: Tuesday, 8 June 2010 2:46 PM
To: houghton@hullalbem.com.au
Cc: Roger.E.Slack@tmr.qld.gov.au; Robert.G.Paynter@tmr.qld.gov.au
Subject: Fw: Lifting Loop clarification
Attachments: pic01684.gif; ecblank.gif; 20100605122824.pdf; 400sq Precast Pile Lifting Loops.pdf

See advice below and can you confirm casting schedule for Inspection purposes please.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
Program Delivery | Department of Transport and Main Roads

Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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Please consider the environment before printing this email

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 08/06/2010 02:44 PM -----

"Neil Tincknell"
<Neil.Tincknell@kbr.com> To<stuart.j.reeves@tmr.qld.gov.au>
08/06/2010 02:41 PM cc
SubjectFW: Lifting Loop clarification

Stuart,
Lifting loop is to have 250mm min embedment, cog is to be a standard hook to code (min 70mm straight after bend), internal bend diameter is to be to code (min 5DB = 60mm).
Also confirming each loop to be embedded twice.

Refer attached sketch for details.

Thanks,

Neil Tincknell
Structural Engineer
KBR Infrastructure and Minerals
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
From: stuart.j.reeves@tmr.qld.gov.au [mailto:stuart.j.reeves@tmr.qld.gov.au]
Sent: Tuesday, 8 June 2010 1:19 PM
To: Neil Tincknell
Subject: Fw: Lifting Loop clarification

For clarification please.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
Program Delivery | Department of Transport and Main Roads

Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@tmr.qld.gov.au
W: www.tmr.qld.gov.au
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----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 08/06/2010 01:18 PM -----
"Clayton Smith"
<houghton@hullalbm.com.au> To:<stuart.j.reeves@tmr.qld.gov.au>
05/06/2010 12:34 PM
cc:Gary Cl
<gary@archive(s)

Stuart,

For your comment

Regards

Clayton Smith
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Opinions contained in this email do not necessarily reflect the opinions of the Department of Transport and Main Roads,

Maritime Safety Queensland or endorsed organisations utilising the same infrastructure.

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Our Reference: CS/1990

5th June 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3697 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Clarification of details for the Lifting Loops – Precast Piles for Timber Reconstruction

We would like to request specific clarification of the details for the lifting loops shown for the precast piles for the reconstructed timber bridge, as shown on drawing 405289 C.

The details that the precaters require are dimensions for the cog in pile and embedment depth for the lifting loop. Assume minimum bend radius’s as per reinforcement specifications.

With this clarification, we advise we will look at commencing the manufacture of such piles.

We await your reply.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
HORNI BROOK REBUILD

400 SQ PRECAST BIBCES

LIFTING HOIST DETAILS
Correspondence # 4
I confirm on-site discussions with Paul yesterday agreeing to the proposal as detailed.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
Program Delivery | Department of Transport and Main Roads

Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@trm.qld.gov.au
W: www.trm.qld.gov.au

Tomorrow’s Queensland: strong, green, smart, healthy and fair – www.towardQ2.qld.gov.au

Please consider the environment before printing this email

"Paul Fitzgerald" <houghton@hullalbem.com.au>

"Paul Fitzgerald"
<houghton@hullalbem.com.au>

17/05/2010 12:32 PM

To <stuart.j.reeves@trm.qld.gov.au>

"Neil Braden" <neilbraden@albem.com.au>,
co <robert.g.paynter@trm.qld.gov.au>,
<archive@hullalbem.com.au>

Subject: Eastern Balustrade Panels Type T9 and Type T10 (PRFP Opening)

With reference to the Eastern Balustrade Panels Type T9 (Southern Side of PRFP Opening) and Type T10 (Northern Side of PRFP Opening) we wish to advise that these balustrade panels have been fabricated as per the details shown on For Construction Drawing 405103 (Rev D).

Upon installation it has been noted that the return (at right angles to the longitudinal line of the footpath) is rising up above the horizontal. The
HAJV believes that an error has been made on the drawings in not considering the fact that the Balustrade Panels are leaning towards the centre of the footpath and as such have not given sufficient details to allow fabrication of the returns to the horizontal.

Please refer to the attached sketches detailing a proposal by the HAJV to modify the returns on these panels to make them horizontal. These proposals are based on measurements taken on-site and in conjunction with Bob Paynter (DMR).

Please note that balusters will be installed such that they appear "plumb" when viewing square to the line of the balustrade panel return.

The HAJV also wishes to highlight a minor mismatch between the rails at the position of the welded joint due to the geometry of the balustrade panels.

Please note that this matter is of high importance to the HAJV as these panels will have to be returned to DJ Lynch Engineering (Gundagai) for modification and re-anodising. This process is likely to take approximately 4 - 6 weeks.

We await DMR's kind acceptance of the above proposal.

Should you have any queries please do not hesitate to contact the undersigned.

Kind Regards,

Clayton Smith

Project Manager | Hull Albem Joint Venture | Houghton Highway Duplication Project

Ph. 07 3269 0109 | Fax. 07 3269 0129 | M. 0418 785 370

(See attached file: C.htm)(See attached file: 2010-05-17 I. - to DMR Re Eastern Balustrade Panels Type T9 and Type T10 (PRFP Opening).pdf)
Our Reference: PF/1950

17th May 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Eastern Balustrade Panels Type T9 and Type T10 (PRFP Opening)

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Should you have any queries please do not hesitate to contact the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
END OF TYPE C PANEL

TOP RAIL

20 mm

382 mm

BOTTOM RAIL

320 mm

20 mm
END OF TYPE IC PANEL

TOP RAIL

417 mm

BOTTOM RAIL

380 mm
Correspondence # 5
**NONCONFORMANCE REPORT AND ACTION**

**Houghton Highway Duplication Project**  
**Lot Number:** Rest Area Span 62  
**NCR No.:** 197

**Description:** Rest area edge to barrier gap too small

**DETAILS OF NONCONFORMANCE:**  
The gap left between the precast parapet and edge of rest area on span 62 is too small to fit the type 7 precast skirt in. 145mm is the minimum dimension required and the space left in span 62 is only 80mm.

**PROPOSED RECTIFICATION/CORRECTIVE ACTION**

| ☐ MAJOR | ☐ MINOR | ☐ INCIDENTAL |
|———|———|———|
| (reject/rework required) | (rectification and/or utilisation) | (acceptable without rectification) |

**Details:**  
We propose a blockout be built into the type 7 so the skirt runs over the top of the barrier and misses this area (see attached sketch).

Signed: ..............................................(CQR)  
**DATE:** 6.1.14/10

**PROPOSED PREVENTIVE ACTION**  
Check critical dimensions before permanent works are poured.

Signed: ..............................................(PM)  
**DATE:** 6.1.14/10

**SUPERINTENDENT'S APPROVAL/REJECTION**

Your proposals have been:  
Approved ☐  
Rejected ☐

**Remarks:**

Signed: ..............................................(SUPERINTENDENT)  
**DATE:** ........../........../...........

**NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS**

Above actions carried out. Signed: ..............................................(PM)  
**DATE:** ........../........../...........

**CLOSE-OUT**

**Non Conformance Action Log Updated**

Signed: ..............................................(CQR)  
**DATE:** ........../........../...........
Rest Area
Section B - Remains Unchanged
Section A - As Per Design

Barrier

145mm
Section A - Proposed Blockout

Proposed Blockout

Barrier
Correspondence # 6
Houghton Project Site Office

From: stuart.j.reeves@tmr.qld.gov.au
Sent: Monday, 22 February 2010 2:27 PM
To: houghton@hullalbem.com.au
Subject: Fw: Southern On-Land Balustrade Drawing Orientation
Attachments: pic12578.gif, 2010-02-19 L - to DMR Re Southern On-Land Balustrade Drawing Orientation .pdf; C.htm; C1.htm

See response below.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
Program Delivery | Department of Transport and Main Roads

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----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 22/02/2010 02:26 PM -----

"Neil Tincknell"
<Neil.Tincknell@kbr.com> To<stuart.j.reeves@tmr.qld.gov.au>

19/02/2010 12:27 PM cc

SubjectFW: Southern On-Land Balustrade Drawing Orientation

Stuart,
Confirming as per letter, the balustrading should be on the footpath side of the posts for the central barrier balustrading.

The elevations shown on drawings 405227 and 405228 have the drafting line work incorrect.
The sections showing setout are correct including detail on drawing 405101.

The wording in relation to "posts be mirrored along longitudinal centreline of balustrade" is confusing and implies posts will be moved, which is not required.
I have confirmed with the JV that the posts will not actually move and will be located as per the drawing details but with balustrading on footpath side.

Thanks,

Neil Tincknell
Structural Engineer
Any problems?

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
Program Delivery | Department of Transport and Main Roads

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 19/02/2010 10:57 AM ----- 

"Paul Fitzgerald"
<houghton@hullalbem.com.au>
19/02/2010 09:01 AM

To

<stuart.j.reeves@tmr.qld.gov.au>

cc

"'Neil Braden'" <neilbraden@albem.com.au>, <archive@hullalbem.com.au>
Subject

Southern On-Land Balustrade Drawing Orientation

Stuart

With reference to the Southern On-Land Pedestrian Balustrade and in particular the detailing of the balustrade as shown on For Construction Drawings 405227 (Rev C) and 405228 (Rev B) for the Southern On-Land Central Traffic Barrier.

Please note that the balustrade posts appear to be incorrectly detailed in the elevations to the extent that they should be shown behind the balustrade panels and not in front of the balustrade panels, i.e. currently detailed on the footpath side of the balustrade panels.

The HAJV proposes that the posts be mirrored along the longitudinal centreline of the balustrade on the central traffic barrier. All other dimensions and details in relation to the balustrade panels remain as shown.

The amendments to set-out points 3 and 7 for the southern central traffic barrier was proposed by the HAJV (ref: AC/1634) in a letter dated 4th December 2009. This amendment was subsequently accepted by DMR.

We trust that the above is considered suitable to DMR and we wish to advise that we will be proceeding based on the above.

Should you have any queries please do not hesitate to contact the undersigned.

Kind Regards,
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(See attached file: C.htm)

(See attached file: 2010-02-19 L - to DMR Re Southern On-Land Balustrade Drawing Orientation .pdf)(See attached file: C.htm)
Our Reference: PF/1794

19th February 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Southern On-Land Balustrade Drawing Orientation

With reference to the Southern On-Land Pedestrian Balustrade and in particular the
detailing of the balustrade as shown on For Construction Drawings 405227 (Rev C) and
405228 (Rev B) for the Southern On-Land Central Traffic Barrier.

Please note that the balustrade posts appear to be incorrectly detailed in the elevations to
the extent that they should be shown behind the balustrade panels and not in front of the
balustrade panels, i.e. currently detailed on the footpath side of the balustrade panels.

The HAJV proposes that the posts be mirrored along the longitudinal centerline of the
balustrade on the central traffic barrier. All other dimensions and details in relation to the
balustrade panels remain as shown.

The amendments to set-out points 3 and 7 for the southern central traffic barrier was
proposed by the HAJV (ref: AC/1634) in a letter dated 4th December 2009. This
amendment was subsequently accepted by DMR.

We trust that the above is considered suitable to DMR and we wish to advise that we will
be proceeding based on the above.

Should you have any queries please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence #7
Please note preliminary advice below.
I will forward revised drawing asap.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
**Program Delivery** | Department of Transport and Main Roads

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 17/03/2010 12:20 PM -----

"Neil Tincknell"
To: stuart.j.reeves@tmr.qld.gov.au
17/03/2010 11:30 AM
cc

Stuart,
Just to give you a heads up on this RFI.
The dimensioning shown on the drawing is quite confusing and rather than mark-up or try to clarify we will reissue the drawing. I was hoping to reissue straight away but might take a couple of days.

Thanks,

Neil Tincknell
Structural Engineer
KBR Infrastructure and Minerals
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001
From: stuart.j.reeves@tmr.qld.gov.au
[mailto:stuart.j.reeves@tmr.qld.gov.au]
Sent: Thursday, 11 March 2010 1:56 PM
To: Neil Tincknell
Subject: Fw: RFI255 Dimensions of Balustrade Panels N3, S2 and S/S Cyclist Safety Rail

For response please.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office
Program Delivery | Department of Transport and Main Roads

Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook
Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976003 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@tmr.qld.gov.au
W: www.tmr.qld.gov.au
P| Please consider the environment before printing this email

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 11/03/2010 01:55 PM -----

"Paul Fitzgerald"
<houghton@hullalbem.com.au>
10/03/2010 08:28 AM

To

<stuart.j.reeves@tmr.qld.gov.au>

cc

"'Neil Braden'" <neilbraden@albem.com.au>, <archive@hullalbem.com.au>

Subject

RFI255 Dimensions of Balustrade Panels N3, S2 and S/S Cyclist Safety Rail
Please refer to attached marked-up copies of HHDP For Construction Drawings 405246 (Rev B) and 405231 (Rev C) with particular reference to Pedestrian Balustrade Panels Type N3 and Type S2 respectively.

The HAJV in conjunction with our balustrade fabricator are of the opinion that the dimensions shown are not complete to enable fabrication of these panels as outlined below.

Balustrade Panel Type N3 (Drawing 405246 Rev B):

The plan view allows the calculation of the aligned dimension along the "balustrade set-out line" to be 1256 mm which agrees with the dimensions nominated on the developed elevation.

The "balustrade set-out line" represents the centreline of the HD bolts for the balustrade posts and does not represent the position of the top or bottom rails.

With due respect the HAJV believes that the top rails (on each side of the bend line) and the bottom rails (on each side of the bend line) on panel type N3 should have different dimensions due to the obtuse angle of 115° and the fact that the balustrade posts are leaning towards the walkway.

Balustrade Panel Type S2 (Drawing 405231 Rev C):

The plan view allows the calculation of the aligned dimension along the "Balustrade set-out line" to be 1173 mm which does not agree with the dimensions nominated on the developed elevation.
The "balustrade set-out line" represents the centreline of the HD bolts for the balustrade posts and does not represent the position of the top or bottom rails.

With due respect the HAJV believes that the top rails (on each side of the bend line) and the bottom rails (on each side of the bend line) on panel type S2 should have different dimensions due to the obtuse angle of 115° and the fact that the balustrade posts are leaning towards the walkway.

S/S Cyclist Safety Rail:

The HAJV kindly requests clarification for the dimensions of the S/S Cyclist safety Rail to be attached to balustrade panel types N3 and S2 to enable fabrication to commence.

We await DMR's kind response with regard to the above matters in relation to RFI255.

Should you have any queries please do not hesitate to contact the undersigned.

Kind Regards,

Clayton Smith

Project Manager | Hull Albem Joint Venture | Houghton Highway
Duplication
Project

Ph. 07 3269 0109 | Fax. 07 3269 0129 | M. 0418 785 370

(See attached file: C.htm)(See attached file: 2010-03-10 L - to DMR Re RFI255 Dimensions of Balustrade Panels N3, S2 and SS Cyclist Safety Rail.pdf)
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(See attached file: C.htm)
(See attached file: 2010-03-10 L - to DMR Re RFI255 Dimensions of Balustrade Panels N3, S2 and SS Cyclist Safety Rail.pdf)
Correspondence # 8
Our Reference: WS/1853

12th March 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
NCR 195 – Rest Area's

Please find attached NCR No. 195, for rest area works, carried out by HAJV.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
NONCONFORMANCE REPORT AND ACTION

Houghton Highway Duplication Project
Lot Number: HH – RA – S18, 48, 61
NCR No.: 195

Description: Rest area – beam cast too long

DETAILS OF NONCONFORMANCE:
The rest areas have been cast, however the 2 main concrete beam members have been cast 15mm too long.
Refer to the attached drawing.
This means the precast skirts will not fit as designed.

PROPOSED RECTIFICATION/CORRECTIVE ACTION

☐ MAJOR (reject/rework required)
☐ MINOR (rectification and/or utilisation)
☐ INCIDENTAL (acceptable without rectification)

Details:
We propose to leave the rest area beam as is and modify the precast skirts.
Type 4 and Type 5 skirts are affected by this change.
We will still be able to maintain the minimum 50mm cover required.
The finished product from external view will look the same as the design.

Signed: 

(CQR) DATE: 12/3/03

PROPOSED PREVENTIVE ACTION

All rest area slabs have been completed – problem was due to oversight of drawing details by HAJV personell.

Signed: 

(PM) DATE: 12/3/03

SUPERINTENDENT'S APPROVAL/REJECTION

Your proposals have been: Approved ☐ Rejected ☐

Remarks:

Signed: 

(SUPERINTENDENT) DATE: / / 

NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS

Above actions carried out. Signed: 

(PM) DATE: / / 

CLOSE-OUT

Non Conformance Action Log Updated

Signed: 

(CQR) DATE: / / 


Correspondence # 9
Our Reference: WS/1835

5th March 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
NCR 191 – Type 3 & 13 Parapets

Please find NCR # 191 attached for your consideration. If you have any queries, please don’t hesitate to contact the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
NONCONFORMANCE REPORT AND ACTION

Houghton Highway Duplication Project Lot Number: B – PCP - T3/T13 NCR No.: 191

**Description:** Precast Parapet with exposed reinforcing bar

**DETAILS OF NONCONFORMANCE:**
There are a number of Type 3 and Type 13 parapets that were manufactured where the ligatures that clash with the junction box is were cut flush with the concrete once the parapet was installed. This error was at first due an oversight of the detail, this was rectified early on in the manufacture process and reinforcing bars were cut prior to casting the parapet. However in addition there were a number of locations where the junction box positioning has changed which has also caused this problem. Refer to the attached photo as an example.

**PROPOSED RECTIFICATION/CORRECTIVE ACTION**

- ☐ MAJOR (reject/ rework required)
- ☐ MINOR (rectification and/or utilisation)
- ☐ INCIDENTAL (acceptable without rectification)

**Details:**
Use as is – treat the exposed end of the bar with epoxy to provide protection prior to installing the cover plates.

Signed: ......................................................... (CQR)  Date: 05/05/2010

**PROPOSED PREVENTIVE ACTION**
Note – parapet manufacture is complete. As above – bars to be cut prior to casting of concrete.

Signed: ......................................................... (PM)  Date: 5/3/2010

**SUPERINTENDENT’S APPROVAL/REJECTION**

Your proposals have been:  Approved ☐  Rejected ☐

Remarks:

Signed: ......................................................... (SUPERINTENDENT)  Date:...../...../.......

**NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS**

Above actions carried out. Signed: ......................................................... (PM)  Date:...../...../.......

**CLOSE-OUT**

Non Conformance Action Log Updated

Signed: ......................................................... (CQR)  Date:...../...../.....
Correspondence # 10
Our Reference: PF/1424

25th September 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7665
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Proposed End Detail for Stainless Steel Cyclist Safety Rail

With reference to the Stainless Steel Cyclist Safety Rail, a part component of the HHDP Pedestrian Balustrade System. Please note that the For Construction Drawings do not provide any detail as to the treatment of the S/S Cyclist Safety Rail at the termination points.

Based on DMR’s verbal request to consider a “hook” return at the termination points of the S/S Cyclist Safety Rail we have liaised with our Balustrade fabricator (DJ Lynch Engineering) and can advise the following.

The internal bend radius for a “hook” return on the S/S Cyclist Safety Rail (76. 2 mm OD x 3.0 mm WT) would be approximately 350 mm.

As an alternative the HAJV proposes a right angle bend return at the termination points, refer to attached sketches for further information (end elevation and side elevations are attached).

The attached detail would apply at the following locations:

For the Western Pedestrian Balustrade there are only 2 termination points, 1 on the Southern Side and 1 on the Northern Side.

For the Eastern Pedestrian Balustrade there are a total of 10 termination points, 1 on the Southern Side, 2 at Rest Area 1, 2 at the ramp to the Pine River Fishing Platform, 2 at Rest Area 2, 2 at Rest Area 3 and 1 on the Northern Side.
The HAJV trusts that the attached documentation is considered suitable to DMR and awaits your kind response in this matter.

Should you have any queries or require further information please do not hesitate to contact the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
PROPOSED END DETAIL FOR S/S CYCLIST SAFETY RAIL ON WESTERN & EASTERN PEDESTRIAN BALSUSTRADE (END ELEVATION)
PROPOSED END DETAIL AT TERMINATION POINTS FOR S/S CYCLIST SAFETY RAIL ON WESTERN & EASTERN PEDESTRIAN BALSUSTRADE (SIDE ELEVATION)
Correspondence # 11
Clayton

KBR's advice is attached below.

Roger Slack also had a discussion with Andrew Collen on site and we suggest to amend the RL6.462 at one end of the wingwall to RL6.44 instead of RL6.419; and amend RL6.400 on top of the retaining wall to RL6.385 (refer dwg no. 405229D). These changes will make a smoother transition but are conditional upon maintaining the min. height from the concrete footpath level to the centre of the top rail 1400mm.

Please contact me on 0401 719 003 should you concerns of the above advice.

Thank you for bringing to our attention of the issue concerned.

Rgds
Bernard

----- Forwarded by Bernard W Tham/SouthEast/QMR/Au on 28/09/2009 04:43 PM -----

"Neil Tincknell"
<Neil.Tincknell@kbr.com>

28/09/2009 04:10 PM

To
Bernard.W.Tham@transportandmainroads.qld.gov.au

cc
stuart.j.reeves@transportandmainroads.qld.gov.au

Subject
RE: RFI 207 - Abutment A Wingwall 1 Top of Concrete Levels

Bernard,

Andrian, please change drawings

Paul, check if Lynch needs to change anything

[Handwritten note: Andrew Page? email?]

[Handwritten note: File? General? Location?]
As discussed I cannot see any design implications to slightly changing the level at one end of the wingwall and the start of the retaining wall to improve the aesthetics. Please ensure height from concrete surface level to centre of top rail remains 1400mm min. There will still need to be a kink or transition in the top of concrete and the balustrading to flatten out once off the bridge.

Thanks,

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: stuart.j.reeves@transportandmainroads.qld.gov.au
[mailto:stuart.j.reeves@transportandmainroads.qld.gov.au]
Sent: Friday, 25 September 2009 8:21 AM
To: Neil Tincknell
Subject: Fw: RFI 207 - Abutment A Wingwall 1 Top of Concrete Levels

For advice please.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery
| Department of Transport and Main Roads Floor Gr | Clontarf - Houghton
Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@transportandmainroads.qld.gov.au
W: www.transportandmainroads.qld.gov.au

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 25/09/2009 08:20 AM
-----

"Houghton Project
Site Office"

<houghton@hullalb

To

e.com.au>          "Stuart Reeves \(Main Roads\)"

<stuart.j.reeves@mainroads.qld.gov.
24/09/2009 03:59

au>
Stuart,

As discussed today, attached is RFI 207 for your action.

Regards,

Andrew Collen
Hull-Albem Joint Venture

(See attached file: C.htm)
(See attached file: 20090924150624.pdf)

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(See attached file: 2090924150624.pdf)
Correspondence # 12
Stuart,

As discussed yesterday, and as previously agreed, the Abutment B relieving slab has been completed, in accordance with NCR 136 & RFI 199 (details attached). We trust this is acceptable.

Regards,
Andrew Colen
Hull-Albem Joint Venture

-----Original Message-----
From: stuart.j.reeves@transportandmainroads.qld.gov.au
Sent: Thursday, 3 September 2009 10:58 AM
To: houghton@hullalbem.com.au
Subject: Fw: NCR 136 - Lack of Cover to Abutment Ballast Wall Starter Bars

Please provide response to Neil's queries below.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery |
Department of Transport and Main Roads Floor Gr | Clontarf - Houghton
Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@transportandmainroads.qld.gov.au
W: www.transportandmainroads.qld.gov.au
P| Please consider the environment before printing this email

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 03/09/2009 10:54 AM -----
Sorry Stuart,
See Attached.

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: stuart.j.reeves@transportandmainroads.qld.gov.au
[mailto:stuart.j.reeves@transportandmainroads.qld.gov.au]
Sent: Wednesday, 2 September 2009 3:24 PM
To: Neil Tincknell
Cc: Jeevan Senthilvasan; stuart.j.reeves@mainroads.qld.gov.au
Subject: Re: FW: NCR 136 - Lack of Cover to Abutment Ballast Wall Starter Bars

Neil, wrong attachment.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery
| Department of Transport and Main Roads Floor Gr | Clontarf - Houghton
Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@transportandmainroads.qld.gov.au
W: www.transportandmainroads.qld.gov.au
P| Please consider the environment before printing this email

"Neil Tincknell"
<br.com>

To

<stuart.j.reeves@mainroads.qld.gov.au
02/09/2009 02:27 au>
"Jeevan Senthilvasan"

<Jeevan.Senthilvasan@kbr.com>

Subject

FW: NCR 136 - Lack of Cover to Abutment Ballast Wall Starter Bars

Stuart,
Can you get the JV to please advise new locations, dimensions etc of reinforcing and joints on the attached sketch due to location of starter bars.  
Need to confirm what will happen with the surrounding reinforcing, eg. if the 2-N20 will move to left of the galv start bar this would be unacceptable.

Thanks,

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: stuart.j.reeves@transportandmainroads.qld.gov.au
[mailto:stuart.j.reeves@transportandmainroads.qld.gov.au]
Sent: Wednesday, 26 August 2009 11:15 AM
To: Neil Tincknell
Cc: Ian Sobey
Subject: Fw: NCR 136 - Lack of Cover to Abutment Ballast Wall Starter Bars

I see this as acceptable and reasonable to have been mistaken. Please advise KBR's thoughts.

Kind Regards,
"Houghton Project

Site Office"

To

<houghton@hullalb.com.au>         "Stuart Reeves \(\text{Main Roads}\)"

<stuart.j.reeves@mainroads.qld.gov.au

26/08/2009 08:59 AM

cc

Subject

NCR 136 - Lack of Cover to Abutment
Ballast Wall Starter Bars

Stuart,

Attached is NCR No. 136, for your approval. Your prompt feedback on this one would be appreciated.

Regards,

Andrew Collen

Hull-Albem Joint Venture
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.73/2338 - Release Date: 09/02/09 18:03:00
Our Reference: ac/1347

31st August 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 199 – Relieving Slab Details (Further Information Provided)

Further to our earlier submission of RFI 199, and following on from our on site discussion this morning, we would like to confirm the details for the relieving slabs at the bridge abutments.

Attached is a sketch of how we intend to set up the relieving slab across the footpath. Section A & Section B from drawing 405113 Rev B can be replaced by Section A (as per the attached sketch).

The step in the relieving slab will be taken out, and the expansion joint blockout will be taken all the way across the ballast wall. The footpath that is to go on top of the relieving slab will have a 10mm compressible filler board on top of this expansion joint blockout, acting as a bond breaker, as discussed.

Please confirm your agreement with this arrangement.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Our Reference: ac/1320

26th August 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
NCR 136 – Lack of Cover to Abutment Ballast Wall Starter Bars

Please find attached NCR No. 136, for a lack of cover to the starter bars from the abutment ballast walls.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
NONCONFORMANCE REPORT AND ACTION

Houghton Highway Duplication Project  Lot Number: ABUT-A-BW & ABUT-B-BW  NCR No.: 136

Description: Lack of Cover for Top Starter Bars from Abutment A & B Ballast Walls

DETAILS OF NONCONFORMANCE:

The U-bar that protrudes from the top of the abutment ballast walls has been fabricated too wide. These bars were bent at 270mm wide (outside to outside), instead of 195mm. This has resulted in a situation where minimum cover will not be able to be achieved in the expansion joint block-out and/or the relieving slab. The cover in some areas across the wall will only be 30mm.

In reference to Section A of Drawing 405061 Rev B the reasons that the U-bars were bent too wide are as follows:

- The width of the ballast wall is 420mm. The steel scheduler has scheduled the U-bars at 270mm (420mm – 2 x 75mm = 270mm).
- The U-bars were scheduled to lap with the vertical bars in the ballast wall. There is no indication on the abutment drawings that these u-bars should not lap to the vertical bars. Similar sections on drawing 405061 have been drawn other u-bars on the inside of bars that they are to lap with – but these other u-bars will actually join into / lap with the outside bars.
- All other dimensions associated with the ballast wall starter bars are detailed on drawing 405061, but not the width of the u-bars.

As per the attached Compliance Inspection Checklist, the details noted on the drawings were checked & verified – position & height of galvanised L-bars, and also the height of the U-bars above the top of the concrete.

This non-conformance has only been picked up now, as we have just started to build the relieving slabs and expansion joint block-outs. It is only when drawings 405094 rev D, 405112 Rev B & 405113 Rev B are referenced that the required dimensions for these u-bars can be calculated.

We believe it is unreasonable for us to reference those particular drawings when constructing the abutment, and would be especially unreasonable for the steel schedulers to do so as well.

It is a combination of factors that has resulted in this non-conformance; if we had examined all drawings in detail prior to constructing the abutment or if the width of the u-bars (or the required tying arrangement for the bars) was detailed on the abutment drawing then this would have been picked up prior to the bars being bent too wide.

PROPOSED RECTIFICATION/CORRECTIVE ACTION

☐ MAJOR  ☐ MINOR  ☐ INCIDENTAL
(reject/rework)  (rectification and/or utilisation)  (acceptable without rectification)

DETAILS:

Where there is not enough cover to the u-bars, in the expansion joint block-out, we would propose to paint the affected section of bar with a two part epoxy – Hilti CA-273 (refer to the attached data sheet).

In the relieving slab, the L-bars are galvanised, so we would propose to use these bars as-as.

Signed.............................................................................(CQR)  DATE: 26/1/09
**PROPOSED PREVENTIVE ACTION:**

1) Clearer drawings of the bar sizes and the required arrangement to tie the bars in place to be provided with the contract drawings.
2) Relieving Slab & Expansion Joint block-out drawings to be referenced when checking the abutment wall.

Signed: .................................................. (PM)  

SUPERINTENDENT'S APPROVAL/REJECTION

Your proposals have been: Approved ☐  Rejected ☐

Remarks:

Signed: .................................................. (SUPERINTENDENT)  

NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS

Above actions carried out. Signed: .................................................. (PM)

CLOSE-OUT

Non Conformance Action Log Updated

Signed: .................................................. (CQR)  

DATE: 24/01/09
STRUCTURAL CONCRETE POUR

PROJECT: HOUGHTON HIGHWAY DUPLICATION PROJECT

LOCATION: Abutment A - Bellast Wall – Concrete Pour

Lot Number: A – B/W

Concrete Class: 550/20/90
Slump: 90mm
Volume: 19.0 m³

No. of Batches: 3
No. of Samples required: 3 x 3

It is required that concrete placement begins at 8:00 am pm on 17/6/08
The work will be ready for checking at 1:00 am pm on 18/6/08

Specifications: MRS 11.70 12/06 ; MRS 11.71 12/06

1. PRELIMINARY
   - Services Located/Relocated/Protected
   - All underlying lots are Conforming or Guaranteed
   - Survey Setout to nominated control points

2. EXCAVATION / FOUNDATION / BEDDING
   - Foundation prepared in accordance with requirements for compaction
   - Waterproofing (Water Bars DR.23) in place around construction & expansion joints

3. FORMWORK
   - Designed & Approved. Forms fabricated in accordance with design
   - Forms cleaned, oiled, stood & braced
   - Fillets in place and corners sealed
   - Form recess for drains
   - Formwork thickness of any section +/- 5mm
   - Length or Width of Formwork +/- 10mm
   - Square or Plumb of Formwork +/- 5mm in 500mm
   - Check formwork IS NOT leaning forward (else clash with girders)

4. REINFORCEMENT
   - Reinforcement as per Drawing No. 405060 (C), 405081 (B)
   - Located and fixed as specified, correct number of bars
   - Cover; Bottom = 70mm, Top = 70mm, Sides = 70mm
   - Sufficient Bars Chairs (50MPA Approved Mix Aspns only, if used)
   - Starter Bars in place for wing walls
   - N16 Galv L bars in place – 171mm above fillet, and 136mm from form face
   - N16 U-bars to have 220mm above top of concrete
   - Ensure all starter bars are fixed rigid

5. CORES / BLOCKOUTS / WEEPHOLES
   - Located and fixed as specified
   - 400mm dia blockout for drainage x 2 - RL 5.200 and RL 5.290 (centre) w/within 10mm

6. EMBEDDED BOLTS / DOWELS / CONDUITS / DUCTS
   - Located and fixed as specified

7. CONSTRUCTION / EXPANSION / CONTRACTION JOINTS
   - Joints roughened and cleaned properly

8. CONCRETE PLACEMENT – Method – DIRECT DISCHARGE PUMP / CRANE & KIBBLE
   - Mix design approved by Main Roads
   - Concrete Class / Mix - 550/20/90 (50MPa)
   - Specified Concrete slump - 90mm
   - Volume Required - 18.4 m³
   - No. of Cylinders required - 3 sets (x 3)
   - Compaction & Testing Equipment on site
   - Concrete Finish - Steel Trowel

HOLD POINT No. 4

Approval to proceed past the mandatory hold point is / is not granted. Concrete placed in the presence of the Superintendent.

Signed: (Superintendent/inspector) Date 17/1/08

Foreman/ Subcontractor: K5
CQR: N/A

(Handwritten notes and signatures present)
HILTI CA 273 Medium setting adhesive paste

1. Product Description
Hilti CA 273 Medium Setting Adhesive Paste is a specially formulated, pre-filled epoxy paste, suitable for use where a sag resistant adhesive is required to produce high strength permanent bonds.

2. Uses
- For the bonding of major materials of construction including:
  o F.C. Sheet, bricks & ceramics
  o Water and drainage pipes
  o Marble cladding
  o Metals
  o Precast concrete
- For the grouting of bolts and starter bars into horizontal holes (for vertical holes use CA80)
- For repairing wide cracks and surface damage in concrete and masonry, particularly in vertical situations where sag resistance is required.
- Also recommended for underwater concrete repairs. Graded sand may be added for concrete repair applications.

3. Features
- Solvent free
- Asbestos free

4. System advantages/Customer benefits
- Easy to blend and apply
- Simple 1:1 mix ratio
- The consistency of CA 273 allows application to vertical surfaces and overhead
- Excellent water tolerance during cure
- Gap filling and sag resistant
- Cures at temperatures down to 5°C
- Excellent adhesion to major materials of construction
- Tensile and compressive strength superior to concrete
- Good chemical and water resistance

5. Packaging
- Description: Adhesive Paste
- Package contents: 1
- Ordering designation: CA 273 28 kg (20 lt) kits
- Item No.: 020122

- Description: Adhesive Paste
- Package contents: 6
- Ordering designation: CA 273 2.8 kg (2 lt) kits
- Item No.: 020121

6. Technical Data

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<td>Component B (formulated hardener)</td>
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**Mechanical properties after 24 hours (25°C)**

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<td>Flexural strength (ISO 178)</td>
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<td>Tensile Strength (ISO 527)</td>
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<tr>
<td>Tensile bond strength (ISO 4587)</td>
<td>15-20 MPa</td>
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<tr>
<td>Density of cured product at 25°C</td>
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<td>Elastic modulus in compression (ASTM D695)</td>
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<td>Curing at 25°C</td>
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<tr>
<td>Minimum cure time</td>
<td>6 hours</td>
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<tr>
<td>Full curing time at 25°C</td>
<td>24 hours</td>
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</table>
Correspondence # 13
Houghton Project Site Office

From: stuart.j.reeves@transportandmainroads.qld.gov.au
Sent: Friday, 4 September 2009 11:34 AM
To: houghton@hullalberm.com.au
Subject: Fw: Restraint angle washers
Attachments: Restraint angle.jpg

Please find attached as discussed.
I have noted an e-mail I sent 13/11/2008 which you may have been referring to in our discussions. I couldn’t find the actual request on washer sizing, but note only washers on the horizontal plane for expansion piers were required to be varied by KBR with all others to remain as per design. It would appear that a 20mm bolt through a 28mm slot would require a modified washer, however KBR didn’t think so at the time.
Please advise the JV’s understanding in this regard.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery | Department of Transport and Main Roads Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976883 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@transportandmainroads.qld.gov.au
W: www.transportandmainroads.qld.gov.au
P| Please consider the environment before printing this email

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 04/09/2009 11:03 AM
-----

Bret J
Kershaw/EngServ/QMR/Au

03/09/2009 03:43 PM

Stuart J
Reeves/SouthEast/QMR/Au@qdot

CC
Bernard W
Tham/SouthEast/QMR/Au@qdot, Peter Graham/EngServ/QMR/Au@qdot

From: Wornick Date: 4/9/09
To: Email
CC: Email

File: NCR Location: Chart

Wornick, please respond.
We advised them of problem
but they didn’t want to change.
Stuart,

During a discussion with the Level 2 inspector this morning, he mentioned that all the washers used with the bolts connecting the restraint angles to the girders were undersized and furthermore, a number of these washers have started bending. As I have been doing previously, I thought I would draw your attention to these issues. Please refer to the attached photo which shows Pier 9/ restraint angle 2.

Can you please discuss this with the contractor? I do acknowledge that these may only be temporary washers and that the contractor will be replacing them with a larger size.

Regards,

Bret Kershaw
Engineer | Bridge Asset Management
Engineering & Technology / Structures Division | Department of Transport and Main Roads Floor 8 | Spring Hill Office Complex | 477 Boundary Street | Spring Hill QLD 4000 | GPO Box 1412 | Brisbane Qld 4001
P: (07) 38345405 | F: (07) 38342065
M: 0402048011
 : Bret.J.Kershaw@transportandmainroads.qld.gov.au
w: www.transportandmainroads.qld.gov.au
P| Please consider the environment before printing this email
(See attached file: Restraint angle.jpg)
*******************************************************************************
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*******************************************************************************
Correspondence # 14
From: stuart.j.reeves@transportandmainroads.qld.gov.au
Sent: Thursday, 10 September 2009 12:00 PM
To: houghton@hullalbem.com.au
Cc: Alexis.J.West@transportandmainroads.qld.gov.au; Robert.G.Paynter@transportandmainroads.qld.gov.au
Subject: Fw: Base plates to handrail

See response below

Kind Regards,

Stuart Reeves
CEPENG | Metropolitan Region / Brisbane District Office Program Delivery | Department of Transport and Main Roads Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@transportandmainroads.qld.gov.au
W: www.transportandmainroads.qld.gov.au
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----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 10/09/2009 11:59 AM
-----

"Neil Tincknell"
<Neil.Tincknell@kbr.com>  To  <stuart.j.reeves@transportandmainroads.qld.gov.au>
09/09/2009 02:17 PM  cc  "Jeevan Senthilvasan"
<Jeevan.Senthilvasan@kbr.com>  Subject  RE: Base plates to handrail

Stuart,

We have reviewed the drawings and believe that yes both are to be the same and the correct dimension is 35mm.

Thanks,
Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery
| Department of Transport and Main Roads Floor Gr | Clontarf - Houghton
Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@transportandmainroads.qld.gov.au
W: www.transportandmainroads.qld.gov.au
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----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 09/09/2009 11:35 AM -----

"JFHull - John H"
<jfh@jf hull.com>

To
08/09/2009 04:13
08/09/2009 04:13
"StuartReeves"

PM
<stuart.j.reeves@mainroads.qld.gov.au>

cc

"CSmith H'ton"
<clayton.smith@jf hull.com>
Stuart
On Drg 405250C section X & Y the dimension from edge of base plate to the face of the 
tanchion is shown as 35 on section X and 5 on section Y. As these need to line up which is 
correct.
John Hull
J F Hull Holdings Pty Ltd
11 Belconnen Cres, Brendale Qld 4500
PO Box 5718, Brendale Qld 4500
P. 07 3205 2633  F. 07 3205 8233
(See attached file: C.htm)
******************************************************************************
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recipient), please contact the sender by reply e-mail and delete all copies of this message.
Correspondence # 15
Clayton Smith

From: JFHull - John H [jfh@jfhull.com]
Sent: Friday, 11 September 2009 12:51 PM
To: StuartReeves
Cc: CSmith H'ton
Subject: on land balustrades

Stuart
On Drg405247C we refer to the balustrade panels which have part of their top rail on the slope of the stairs and part with top rail horizontal.
We do not think that these panels can be physically installed, and would ask how the designer envisaged that they would be installed.

John Hull
J F Hull Holdings Pty Ltd
11 Belconnen Cres, Brendale Qld 4500
PO Box 5718, Brendale Qld 4500
P. 07 3205 2633 F. 07 3205 8233

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.90/2361 - Release Date: 09/10/09 18:12:00

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Our Reference: WS/1823

2nd March 2010

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 251 – Light pole bolt detail

Please refer to Drawing 4052120, we note that there is no bolt size or grade called up for the connection between the light pole and the light pole bracket.

Please advise of the size and grade of bolt required.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Alblem Joint Venture
Houghton Highway Duplication Project
Our Reference: CS/1787

17th February 2010

The Superintendent
Department of Main Roads
48 Horibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 247 – Rubbish Bins / Drinking Fountain on PRFP / new Bridge

Could you please clarify the following as detailed in CSS8, Clause 8.6:

(a) Rubbish Bins: Understand that a rubbish bin is required at each rest area, but we are uncertain as to the number of bins required on the Pine River Fishing platform – could you please confirm; and

(b) Drinking Fountain: As per details in letter ac/846 dated 16/3/09, should we supply install the full stainless steel drinking fountain Apollo 900 in lieu of the specified Apollo 400 which is only partly stainless steel?

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 18
Our Reference: RG/1515

26th October 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 212 – Light Pole Bracket

The light pole brackets shown on drawing 405120(C) have offset holes for base plates at locations on the abutments and piers 1, 2, 76 and 77 to account for the slope of the bridge in these sections. We currently have fabricated and delivered to site all light pole brackets in accordance with this drawing. After installing the bracket for pier 3, we are unable to set it level as there is no allowance in the base plate holes for the slope of the bridge. We believe this bracket should have been made similar to pier 1 and believe the same will apply for pier 75.

Please advise on whether a change is required to the base plate details for these locations at your earliest convenience.

Should you require further information in this regard, please do not hesitate to contact the undersigned.

Regards

John Hull

Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 19
Houghton Project Site Office

From: stuart.j.reeves@tmr.qld.gov.au
Sent: Tuesday, 1 December 2009 12:31 PM
To: houghton@hullalbem.com.au
Cc: Robert.G.Paynter@tmr.qld.gov.au
Attachments:

See KBR's response below.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery | Department of Transport and Main Roads Floor Gr | Clontarf - Houghton Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@tmr.qld.gov.au
W: www.tmr.qld.gov.au

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----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 01/12/2009 12:30 PM
-----

"Neil Tincknell"
<N Neil.Tincknell@kbr.com>

01/12/2009 11:44 AM

To
<stuart.j.reeves@tmr.qld.gov.au>

"Jeevan Senthilvasan"
<Jeevan.Senthilvasan@kbr.com>

cc

Subject

Gary, please show Virtual file change and make sure all A3 & A1 drawings changes. Don't forget the survey.

Stuart,
As noted by the JV the RL 'A' noted on drawing 405307 for emergency platform EP3 is incorrect and should be RL 4.96m.
Please note some other minor details such as number of rungs will change to suit.

Thanks,
Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: stuart.j.reeves@tmr.qld.gov.au
[mailto:stuart.j.reeves@tmr.qld.gov.au]
Sent: Thursday, 26 November 2009 3:16 PM
To: Neil Tincknell

For response please.

Kind Regards,

Stuart Reeves
CPENG | Metropolitan Region / Brisbane District Office Program Delivery |
| Department of Transport and Main Roads Floor Gr | Clontarf - Houghton
Highway Site Office | 48 Hornibrook Esplanade | Clontarf Qld 4019
48 Hornibrook Esplanade | Clontarf Qld 4019
P: (07) 38976803 | F: (07) 32847865
M: 0412370463
E: stuart.j.reeves@tmr.qld.gov.au
W: www.tmr.qld.gov.au
P| Please consider the environment before printing this email

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 26/11/2009 03:15 PM
-----

"Gary Christian"

<houghton@hullalb
em.com.au>

To

<stuart.j.reeves@mainroads.qld.gov.au>
26/11/2009 11:20 AM

cc

<archive@hullalbem.com.au>

Subject

RFI 232 - PRFP - EP3 Emergency
Our Reference: GC/1611

26th November 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35

In case of EP3 pile of the PRFP, it appears that top of the Plate RL ‘A’ (3.40m) detailed on drawing No. 405307_Rev B is incorrect.

The Emergency Platform pile EP3 is adjacent to span 9 at the lower ramp where the actual deck level is RL 4.960m. The difference between two levels is approximately 1.5m.

Please look into this matter at your earliest convenience and advise the required top of the plate RL ‘A’ for the EP3 pile.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 20
Houghton Project Site Office

From: Stuart Reeves [sjreng@bigpond.net.au]
Sent: Tuesday, 4 August 2009 5:38 PM
To: 'Houghton Project Site Office'
Cc: 'Stuart Reeves (Main Roads)'
Subject: RE: RFI 188 - Gantry Steel & Sign Details

I can advise that in relation to Item 2 that the Tender documentation stands.
I have forwarded other items to KBR for response.

Stuart Reeves
Mob# 0412370463

From: Houghton Project Site Office [mailto:houghton@hullalbem.com.au]
Sent: Tuesday, 4 August 2009 12:40 PM
To: Stuart Reeves (Main Roads)
Subject: RFI 188 - Gantry Steel & Sign Details

Stuart,

Attached is RFI 188 for your action.

Regards,

Andrew Collen

Hull-Albem Joint Venture

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Our Reference: ac/1231

4th August 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf QLD 4019
Phone (07) 3897 6800
Fax (07) 3204 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 188 – Gantry Steel & Sign Details

1) Please refer to drawing 405252 Rev D, Structural Steelwork Notes. Note S2 states that UB, UC, PFC and Angle is to be Grade 350. Steel suppliers inform us that these sections are not readily available in Grade 350, and they are usually produced in Grade 300. Grade 350 needs to be specially ordered and has a minimum tonnage requirement to process an order (well above what we need). Please confirm if Grade 300 is acceptable.

2) Note S2 (drawing 405252 Rev D) also states that RHS, SHS & CHS is to be to AS1163 Grade 350. A letter given to industry steel fabricators, in March 2009 by Main Roads Bridge Branch, states that Hollow Sections are to be to AS1163 Grade L0. A copy of this letter is attached. Please confirm which requirement you would like us adhere to - Grade L0 or Grade 350.

3) Please refer to drawing 405266 Rev E, Type 2 Sign. The Sign Schedule for the Type 2 Signs lists 2 no. of signs (S04/001 & S10/002). However the Typical Sign Elevation – Type 2 lists 3 no. of signs (S04/001, S10/001 & S04/002). If 3 no. of signs are required, then please provide an updated Sign Schedule detailing Sign S04/002.

4) The Sign Schedule – Type 3 (drawing 405253 Rev D) lists 1 no. of Type 3 sign – S10/003. However, drawing 405263 Rev C, Typical Sign Elevation – Type 3 lists an East Side sign & a West Side sign (2 no. of signs). Please confirm the number of Type 3 signs required, and provide an updated Sign Schedule if a second sign is required.

5) Similarly, the Sign Schedule – Type 4 (drawing 405253 Rev D) lists 1 no. of Type 4 sign – S04/002. However, drawing 405264 Rev D, Gantry Support Details – Type 4 lists an East Side sign & a West Side sign (2 no. of signs). Please confirm the number of Type 4 signs required, and provide an updated Sign Schedule if a second sign is required.
Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 21
Houghton Project Site Office

From: stuartj.reeves@mainroads.qld.gov.au
Sent: Wednesday, 25 February 2009 3:13 PM
To: houghton@hullabem.com.au
Cc: Robert.G.Paynter@mainroads.qld.gov.au
Subject: Fw: RFI -120 Drg of deck units type G21 & G22 of PRFP

Please see response below.
Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463
----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 25/02/2009 03:12 PM -----

"Neil Tincknell"
<Neil.Tincknell@kbr.com>
24/02/2009 05:45 PM

To
<stuart.j.reeves@mainroads.qld.gov.au>

"Ben Edgerton"
<Ben.Edgerton@kbr.com>, "Jeevan Senthilvasan"
<Jeevan.Senthilvasan@kbr.com>

cc

Subject
RE: RFI -120 Drg of deck units type G21 & G22 of PRFP

Stuart,
Details for Beams G21 and G22 appear to have been missed on the drawings.

As per details on drawing 405187:
Elevation and Plan Details for G21 and G22 will be the same as for Beams G1-G20 Dimension 'x' will be approx 153mm but will need to be confirmed by steel scheduler prior to manufacture.

Ferrule setout will be as per G1, G17 & F1 for beam G22 And as per G16, G20 & F10 for beam G21

Thanks,

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au
[mailto:stuart.j.reeves@mainroads.qld.gov.au]
Sent: Tuesday, 24 February 2009 10:53 AM
To: Neil Tincknell; Ben Edgerton
Subject: Fw: RFI -120 Drg of deck units type G21 & G22 of PRFP

For response please.
Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 24/02/2009 10:52 AM
-----

"Gary Christian"
<houghton@hullalb.em.com.au>

To
<stuart.j.reeves@mainroads.qld.gov.au>
24/02/2009 07:28 AM

AM

cc
<archive@hullalbem.com.au>

Subject
RFI -120 Drg of deck units type G21 & G22 of PRFP

Stuart,
Please find attached RFI -120 for your review and response.

Regards,

Clayton Smith

(See attached file: C.htm)
(See attached file: DMR - 773 - RFI 120 - Drg of deck unit Type G21 &
G22 for PRFP.doc)

**********************************************************************
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Correspondence # 22
Our Reference: ac/787

26th February 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 123 – Confirmation of Northern Kerb Retaining Wall Dimensions

Attached is drawing 405230 (refer Section A). Please confirm the dimensions as marked - the thickness of the wall section of the retaining wall (we assume it is 375mm, but request clarification), and also the dimension at the top of the barrier. Drawing 405058 Section E gives the dimension at the top of the barrier of 415mm (as opposed to 410mm for drawing 405230).

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Clayton

Please find advice from KBR in relation to your query raised in RFI #123.

The advice is that the wall thk is 375mm and dimension at top of kerb (retaining wall) is 415mm.

Rgds
Jernard

----- Forwarded by Bernard W Tham/SouthEast/QMR/Au on 10/03/2009 02:53 PM
-----

"Ben Edgerton"
<Ben.Edgerton@kbr.com>
10/03/2009 10:04 AM

To
Bernard.W.Tham@transport.qld.gov.au

cc
<stuart.j.reeves@mainroads.qld.gov.au>,
<adrian.c.derbyshire@mainroads.qld.gov.au>

FW: RFI 123 - Confirmation of Northern Kerb Retaining Wall Dimensions

Ben Edgerton
Civil Engineer
KBR (Kellogg Brown & Root Pty Ltd)
Level 11, 199 Grey St, South Bank, QLD Australia 4101 Ph 0431 254 061 Fax (07) 3721 6500

-----Original Message-----
From: Muru Saravanamuthu
Sent: Monday, 9 March 2009 5:12 PM
Subject: Re: RFI 123 - Confirmation of Northern Kerb Retaining Wall Dimensions
To: Ben Edgerton
Cc: Neil Tincknell
Subject: RE: RFI 123 - Confirmation of Northern Kerb Retaining Wall Dimensions

Ben,

I confirm the thickness of the wall is 375mm. The dimension at the top of the retaining wall shall be 415mm instead of 410mm.

Thank you.

Kind Regards
Muru

-----Original Message-----
From: Neil Tincknell
Sent: Tuesday, 3 March 2009 2:07 PM
To: Muru Saravanamuthu
Subject: FW: RFI 123 - Confirmation of Northern Kerb Retaining Wall Dimensions

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au [mailto:stuart.j.reeves@mainroads.qld.gov.au]
Sent: Friday, 27 February 2009 3:04 PM
To: Neil Tincknell
Cc: Ben Edgerton
Subject: Fw: RFI 123 - Confirmation of Northern Kerb Retaining Wall Dimensions

For your advice please.

Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 27/02/2009 03:03 PM
-----

"Houghton Project
Site Office"

<houghton@hullalb
To em.com.au> "Stuart Reeves \(Main Roads\)"
<stuart.j.reeves@mainroads.qld.gov.au>

PM

cc

Subject

RFI 123 - Confirmation of Northern Kerb Retaining Wall Dimensions

Stuart,

Attached is RFI 123 for your action.

Regards,

Andrew Collen

Hull-Albem Joint Venture

(See attached file: C.htm)
(See attached file: 20090226130141.pdf)

*******************************************************************************

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Our Reference: ac/863

18th March 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE  Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 138 – Foundations for the Pedestrian Poles on the Northern End of
the Project

As discussed yesterdays Site Meeting, attached are details, from Bielby Holdings,
regarding the foundation design for the pedestrian poles.

Please confirm the actual design required for these foundations.

Should you have any queries regarding the above, please do not hesitate to contact the
undersigned

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
RFI – 107 FOUNDATIONS FOR THE PEDESTRIAN POLES ON THE NORTHERN END OF THE PROJECT

Clayton,

As discussed in the site meeting we require clarification from DMR with regard to the foundation design for the pedestrian poles on the northern end of the project. I have attached the only detail I have been able to find with regard to the ESV6 foundation. The foundation details a hole 600mm deep with a diameter of 365mm. There are no details with regards to the concrete type, height of foundation bolts etc. JPR has been onto supplier but as of yet has not been able to get any further details. Can DMR/KBR please confirm the actual design they require for the foundation?

I have also attached a few photos of the actual bases for your info.

Regards,

BIELBY Holdings Pty Ltd

Sam Bates
Project Manager (civil works)
PO Box 52 Kenmore 4069
Phone: (07) 3378 6938
Fax: (07) 3378 7706
Mobile: 0402 120 758

No virus found in this incoming message.
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Version: 8.0.238 / Virus Database: 270.11.18/2008 - Release Date: 03/17/09 16:25:00
Correspondence # 24
Our Reference: ac/847

16th March 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE  Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 134 – Discrepancy with Gantry G17 Hold-down Bolts

We refer to the hold down bolts (cast into the footing) for Gantry G17.

Drawing 405262 Rev C – Section B lists the hold down bolts as 10 no. of M24 / 4.6 Bolts @ 600mm long.

However, drawing 405260 Rev C – Section C lists the hold down bolts as 10 no. of M36 / 4.6 bolts (but doesn’t give a bolt length).

Please confirm which bolts are correct.

Note that we have already purchased the 20 no. of M24 bolts on drawing 405262, prior to noticing this discrepancy.

Should you require any further information, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Our Reference: CS/972

27th April 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Variation 070 – Gantry Hold Down Bolts Changed from M24 to M36

In accordance with GCoC, please find provided for your consideration and approval our variation cost for the supply of M36 bolts for the gantry footings.

We refer to RFI 134 and your emails to us dated 24/03/09 & 26/03/09, regarding the changes in the Gantry G17 & G19 hold down bolt sizes, from M24 to M36. The M24 bolts were detailed on drawings 405262 Rev C & 405256 Rev C, and were purchased based on these drawings.

Attached is a quotation from Belconnen Steel for the supply of the extra M36 bolts that are now required.

Variation Cost = $5,775.58 plus GST

A break down of the cost is given below:
   a) $4,452.00 – DJC from Belconnen Steel, see attached Quotation dated 17/04/09
   b) $1,323.58 – Overhead and margin (Tender Schedule M10).

Should you have any queries, please don’t hesitate in contacting the undersigned. We trust that this is acceptable.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
BELCONNEN STEEL PTY LTD
ABN 12 010 732 297

Postal Address
PO Box 5718
BRENDALE QLD 4500
Phone 07 38813090
Fax 07 38813091

Site and Accounts
11 Belconnen Cres
BRENDALE 4500
EMAIL: bel@jfhull.com

Date: 17.4.09
To: J F Hull Holdings Pty Ltd

Attn: Andrew Collen
Email: jfhull3@bigpond.net.au
Fax: 3205 8233
Phone: 3205 2633

QUOTATION NUMBER: HDBoltshtonEXTRA170409

Extra cost to replace 44 No. M24 Grade 8.8 x 600mm bolt assemblies with M36 Grade 8.8 x 600mm assemblies. Including all MR testing.

| Quote amount | $4,452.00 |
| Total | $4,897.20 |

"Please note"
- Belconnen Steel payment terms are 30 days.
- All orders require a written purchase order.
- This quote is current for 30 days.
- Progress claims will be raised monthly for any projects spanning consecutive months

Jerry Geurtse
Correspondence # 25
Our Reference: WS/844

16th March 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI – Conduit in link slabs

We would like to request information in regards to conduits in the link slabs at gantry locations. Are the 3 x 50mm diameter conduits required to be white or orange?

Thank you for your prompt attention to this matter. If you have any questions, please don’t hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Our Reference: WS/903

30th March 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Conduits in link slabs at gantry piers

In addition to all of the correspondence to date regarding clarification of the conduits required to be cast into the link slabs at gantry piers, we confirm the correct arrangement.

At pier 13 require;
2 x 50mm diameter electrical conduits – orange
1 x 50mm diameter telecommunications conduit – white (to feed Help Phone)

In addition, we assume that this arrangement will be repeated at all gantry piers (piers 13, 27, 40, 53, 66). Please confirm.

We note/advise that this letter supersedes our letter reference WS/893 as dated 26 March 2009.

Should you have any queries, please don’t hesitate in contacting the undersigned. We trust that this is acceptable.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Our Reference: RG/1243

29th July 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 189 – Cover to Deck Steel PRFP

Further to RFI 147 and your response dated 21 April 2009, there is some difficulty with positioning the steel reinforcing as required and maintaining the required 70mm cover. RFI 147 related to the position of the parapet starter bar being detailed incorrectly in the design drawings. The outcome of this was to move the starter bars beneath the longitudinal bars. This has effectively created 3 layers of reinforcing steel where previously there was 2.

The minimum thickness of the PRFP deck is 175mm. It is physically not possible to fit these 3 bars and maintain the required cover top and bottom. This is further complicated by ligatures protruding from the deck planks and natural variations due to deck plank manufacture and placement.

We propose the following as a possible solution (refer attached sketches):
1. Reduce cover between the deck planks and the reinforcing steel to 50mm as has already been agreed for areas where there is a concrete skirt; and
2. Bend the deck plank ligatures down on the outer plank at each side. This could possibly cause the ends of the ligatures to be less than 50mm above the deck plank however it is in the middle of the plank and not exposed.

An alternate solution may be to reverse the layers of the steel reinforcing, having the transverse steel below the longitudinal steel. This would allow the parapet starter bars to slot into the same layer as the transverse steel and thereby allowing for only 2 layers of reinforcing.

As we have already commenced steel fixing on several spans, your earliest possible attention to this matter would be appreciated.
Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Typical Edge detail
Upper Ramp

Extract from Aug 405.178(C)

N16-150
STARTER BARS

70 mm
70 mm

N16-151
TYPICAL

N16 parallel
STARTER bar

N16 longitudinal
+ transverse bars
175mm nominal

N12 lugs
from deck planks

50mm cover proposed
Bars bent down on edge planks only.

N12 LIG

N12 U-BA

No cover requirement in middle of plank.
Correspondence # 27
----- Original Message -----  
From: <stuart.j.reeves@mainroads.qld.gov.au>  
To: <Neil.Tincknell@kbr.com>  
Cc: <jfh@jfhull.com>  
Sent: Wednesday, June 03, 2009 2:07 PM  
Subject: PRFP dimension and detail

> Neil I received an inquiry from John Hull today in regards to lack of 
> dimensioning and detail to the shade structure on the PRFP. 
> There is a general lack of detail (dimensions, angles and RL’s) to allow 
> the fabrication of brackets and timber to permit its construction is ther 
> something more we are missing. 
> As a minimum on Drawing 405208 Detail 1 is the timber frame the same angle 
> as the concrete plinth and what is the dimension of the timber frame to 
> concrete plinth gap. 
> Regards, 
> Stuart Reeves 
> HHDP Superintendent 
> Mob 0412370463 
> 
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Correspondence # 28
Our Reference: PF/989

1st May 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE   Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Balustrade Post to Balustrade Panel Connection

With reference to DMR correspondence dated 30th April 2009 providing KBR’s response to the request for slotted holes to the Balustrade Panels to facilitate connection to the Balustrade Posts.

We note the comments of Mr Neil Tincknell (KBR) with respect to a +/- 4 mm installation tolerance.

The HAJV respectfully disagrees with the tolerance nominated above and notes that the Balustrade Post base plates have a 16 mm dia. hole through which an M12 hold down bolt is installed. This allows for an installation tolerance of +/- 2 mm.

Further to the above it should be noted that clause 22 (table 13) of MRS 11.70 allows for a +/- 5 mm (maximum) installation tolerance for handrail anchorages.

Therefore the Balustrade Posts have the potential to be approximately +/- 7 mm from their design location.

The Balustrade Panels have a 12 mm dia. hole through which an M10 cuphead bolt passes to fix the Balustrade Panel to the Balustrade Post. This allows for a tolerance of +/- 1 mm.

Thus the Balustrade Panels have the potential to not fit the Balustrade Posts should two opposite posts be at the extreme limits of the tolerance.

It should further be noted that the TollFab system nominated on the For Construction drawings, even though not specifically stated, contain slotted holes for the connection of the Balustrade Panels to the Balustrade Posts. These slotted holes are undertaken as a matter of course by the supplier to facilitate installation and erection.
The HAJV respectfully requests that DMR re-consider that the 12mm dia. hole be modified to a slotted hole 12 mm dia. x 25 mm long. This will provide a construction tolerance of +/- 6 mm.

We trust that this is considered suitable to DMR and await your response.

Should you have any queries please do not hesitate to contact the undersigned.

Regards

Clayton Smith

Clayton Smith

Hull Albem Joint Venture

Houghton Highway Duplication Project
Correspondence # 29
Our Reference: RG/975

28th April 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE  Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Variation 072 – Stainless Steel Cover Plates for Expansion Joints on Fishing Platform

In accordance with GCoC, please find provided for your consideration and approval our variation cost for the supply and installation of stainless steel cover plates for the expansion joints at piers W10 & W14 on the fishing platform. We submit this variation as the cover plates were not included in the original tender drawings.

Variation Cost = $19,462.35 plus GST

In submitting this claim, we note the following below:
   a) $15,002.20 – DJC, as per attached build up sheet
   b) $4,460.15 – Overhead and margin (Tender Schedule M10).
   c) The above price is for both expansion joints.
   d) The cover plates are unavailable as specified in SS316 and have been priced as SS304.
   e) The wearing plate has a 8mm square bar welded to it. This is unavailable and has been priced using a 9.525mm square bar.

Should you have any queries, please don't hesitate in contacting the undersigned. We trust that this is acceptable.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
## J.F. Hull Holdings Pty Ltd

**Stainless Steel Cover Plates for Expansion Joints**

**Contract:** Houghton Highway Bridge Duplication  
**Prepared by:** Rory Giles  
**Date:** 15/4/09  
**Sheet:** 1 of 1

<table>
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<th>Item</th>
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<th>Quantity</th>
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<th>MATERIALS</th>
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<th>TOTAL</th>
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<td></td>
<td>Supply and fabrication of <strong>SS304</strong> cover plates type 1 and type 2</td>
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<td>LS</td>
<td>3503</td>
<td>$3,503</td>
<td>$3,503</td>
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<td>Supply and fabrication of <strong>SS316</strong> wearing plates type 1 and type 2 (Sq. bar 9.525mm)</td>
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<td>LS</td>
<td>2588</td>
<td>$2,588</td>
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<td>150</td>
<td></td>
<td>$150</td>
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<td>ea</td>
<td>1.5</td>
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<td><strong>25x3EA with 12x3x50 tangs SS316</strong></td>
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<td></td>
<td>$250</td>
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<td>55</td>
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<td><strong>Franna</strong></td>
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<td>hrs</td>
<td>115</td>
<td></td>
<td>$115</td>
<td></td>
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<td></td>
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<tr>
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<td>Small tools, generator, compressor</td>
<td>2</td>
<td>days</td>
<td>200</td>
<td></td>
<td>$400</td>
<td></td>
<td>$400</td>
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**Page Total**  
$515 $4,400 $2,667 $7,420 $15,002.20

**Progressive Total**  
$515 $4,400 $2,667 $7,420 $15,002.20

**Margin and Overheads**  
$4,460.15

**Sell Total**  
$19,462.35

Costings  PR=P SS Cover Plate.xls
Rory Giles - JFHull

From: "Belconnen Steel" <intbel@bigpond.net.au>
To: "Rory Giles" <rorey.giles@jfhull.com>
Sent: Monday, 23 February 2009 9:07 AM
Attach: Bel Fish plat 1.pdf
Subject: Fw: Quote Request for Houghton

Rory

Prices as requested.

Linda

----- Original Message ----- 
From: "Rory Giles" <rorey.giles@jfhull.com>
To: <intbel@bigpond.net.au>
Sent: Wednesday, February 18, 2009 1:13 PM
Subject: Quote Request for Houghton

> 
> Hi Gerry
> Could you please provide a quote for the following items for the 
> Houghton project. All items are SS316.
> 
> 2 No. Cover plate type 1 as per dwg405210 (B) - $3,503.00 ex gst - 304 SS 
> (Floor Plate not available in 316 SS 
> 2 No. Cover plate type 2 as per dwg405210 (B) - included in type 1 price 
> 2 No. "wearing plate" type 1 as per dwg405210 (B) - $2,588.00 ex gst - 316 
> SS - 8mm SS square bar not available - 9.525mm used for price 
> 2 No. "wearing plate" type 1 as per dwg405210 (B) - included in type 1 price 
> 11.5m SS 25x3 EA with 12x3x50 tangs as per dwg405210 (B) - 20m - $1,179.00 
> ex gst - 316 SS 
> 
> Regards
> 
> Rory Giles
> 0438 161 762
> JF Hull Holdings

---

Distribution | Date
-------------|-----
Job No.      | 116
H.O.         | KG
S.M.         | 63
File Location| Bel

27/02/2009
Correspondence # 30
Our Reference: CS/898

30th March 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Variation 056 – Changes to Noise Barrier Details (Extra Over Rate)

At time of tender, drawing 405235 Revision A had no detail and was labeled “Details to be Confirmed”. We therefore had no alternative but to base the price of the realigned section of the noise barrier, on the structure of the noise barrier that would remain.

After contract award, drawing 405235 Revision B was issued, with the noise barrier details. The details given in Revision B are significantly different to the structure of the existing noise barrier. As this detail was provided after contract award, and adds significant cost to the construction of the noise barrier, we consider this extra work to constitute a variation to the contract under Clause 40 of the GCoC.

Bielly’s noise barrier subcontractor had based their tender rate on standard drawing 1605 (which has no post, footing or span dimensions) and previous experience in the construction of these barriers. Since receiving the new (actual) details of the noise barrier their rate has been amended to account for deeper footings, etc.

This is in reference to Item 6213.01PS from the Tender Schedule.

Extra Over Variation Rate = $300.58 / m plus GST

A break down of this variation rate is given below:

a) $231.70 – DJC from Bielly, see attached letter dated 25/3/09.
b) $68.88 – Overhead and margin (Tender Schedule M10).
Should you have any queries, please don’t hesitate in contacting the undersigned. We trust that this is acceptable.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Ref: SB/H85

25th March 2009

Project Manager
JF Hull / Alber Joint Venture
Site Office - Decker Park
Corner Houghton Hwy and Beaconsfield Terrace
Brighton

Attention: Mr Clayton Smith

Dear Sir

Contract No 165/122/35
Houghton Highway
Brighton to Redcliffe
Variation 123 – Noise Barrier

At time of tender plan 405235 revision A, had no detail and was labelled "Details to be confirmed". We therefore had no alternative but to base the price of the realigned section of the noise barrier on the structure of the noise barrier that would remain.

After contract award plan 405235 revision B, was issued with the noise barrier details. The details given in revision B are significantly different to the structure of the existing noise barrier. As this detail was provided after contract award and adds significant cost to the construction of the noise barrier, we deem this extra work to constitute a variation to the contract under clause 40 of the General Conditions of Contract.

Our noise barrier subcontractor based their tender rate on standard drawing 1605 (which has no post, footing or span dimensions) and previous experience in construction of these barriers. However once they received the actual details their rate was amended to account for deeper footings etc.

Therefore Variation 123:
EXTRA OVER RATE for the noise barrier - $231.70 /m (excl GST)

We trust this is to your satisfaction

Yours faithfully,

S. Bates
BIELBY Holdings Pty Ltd
Site Project Manager [Civil Works]
Correspondence # 31
Our Reference: WS/978

28th April 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI #150 – Precast Parapet Types

We would like to ask for clarification to be provided in relation to the precast parapet types required for some spans. It appears that spans 24, 25, 44, 45, 55 and 65 do not have the precast parapet types defined on the plans 405105, 405106, and 405107.

We would assume that spans 24 and 44 are to be similar to span 4 and that spans 25, 45, 55, 65 are to be similar to span 15. HAJV seek your confirmation of this information.

If you have any further queries, please don't hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 32
Correspondence # 33
Our Reference: WS/1157

2nd July 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI – Pier Lighting

We would like to request clarification of conflicting details in the drawings in regards to the pier lighting.

Question 1.
Refer to drawing 405125 [B]. The light bracket assembly detail has a note which says “located to both east and west parapets at piers 30 and 31”, in contrast, drawing 405106 [B] indicates that the pier lighting is on piers 29 and 30 on the western side, and piers 30 and 31 on the eastern side. Please confirm/advise which is correct.

Question 2.
Refer to drawing 405125 [B]. The front elevation of the light bracket assembly shows a flexible conduit which then runs to a 100x100 junction box. We have been unable to find any details on this junction box or on where the feed for it is located. Likewise, the side elevation shows diagrammatically a conduit through the parapet. We assume that the power feed will come through this conduit. Is this correct? If so, we also then assume that an additional junction box will be required in the in-situ section of the parapet at the nominal 500mm offset (similar to light poles). Please confirm/advise.

Your prompt attention to these issues would be appreciated. Should you have any queries, please don’t hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 34
Our Reference: ac/1187

9th July 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI 162 – Abutment A Wingwall Details

We refer to drawing 405056 Rev E, Abutment A wingwalls.

Please confirm if the shape of the barrier detailed on this drawing is correct, as the outer profile detailed does not match with the parapets in Span 1. If the detail is correct, please clarify how you would like the transition to be made from the two different profiles joining together.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 35
Correspondence # 36
Correspondence # 37
Correspondence # 38
Please find responses to RFI's as per below.

Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463
----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 10/11/2008 10:30 AM
-----

"Neil Tincknell"
<Niel.Tincknell@kbr.com>  To <stuart.j.reeves@mainroads.qld.gov.au>
07/11/2008 02:26 PM

"Ben Edgerton"
<Ben.Edgerton@kbr.com>, "Jeevan Senthilvasan"
<Jeevan.Senthilvasan@kbr.com>  CC

Subject

Stuart,
It has taken some time to go through the architects drawings for these RFI's. Responses are as follows:

RFI HSD427-10: Dimension should be 1080mm. The fishing platform was not considered as a bridge and therefore does not need to be 1100mm high as per the Bridge Code but between 900mm to 1100mm as per AS1657 (Fixed platforms, walkways, stairways and ladders - Design, construction and installation)

RFI HSD427-11: I would assume that the enclosure would not be supplied with the water pipe. We are currently trying to chase up our architects to determine what there intention was.
RFI HSD427-12: We are currently trying to chase up our architects to determine what there intention was.

RFI HSD427-13: We are currently trying to chase up our architects to determine what there intention was.

RFI HSD427-14: Handrail is to be welded onsite.

Thanks,

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: Ben Edgerton
Sent: Tuesday, 21 October 2008 8:35 AM
To: Neil Tincknell
Cc: Jeevan Senthilvasan

Neil

Contractor is requesting a meeting to discuss farication of ballustrading. This will potentially save a lot of time for all parties (most likely at DMR site office). I will discuss with you today.

Thanks

Ben Edgerton
Civil Engineer
KBR (Kellogg Brown & Root Pty Ltd)
Level 11, 199 Grey St, South Bank, QLD Australia 4101 Ph 0431 254 061 Fax (07) 3721 6500

-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au
Sent: Friday, 17 October 2008 11:10 AM
To: Ben Edgerton

Can you arrange a meeting with the appropriate attendees please.

Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 17/10/2008 11:09 AM
-----

"JF HULL"
Hello Stuart
Please refer to attached letter requesting meeting with Designer in relation to Fishing Platform RFI's.

Ann
JF HULL
----- Original Message ----- 
From: Hempsall Steel Detailing
To: JF HULL
Sent: Thursday, October 16, 2008 12:19 PM
Subject: HSD427 - Pine River Fishing Platform - RFI HSD427-10, 11, 12, 13, 14.

John/Ann
Please find attached RFI HSD427 - 10, 11, 12, 13, 14.
No virus found in this incoming message. 
Checked by AVG - http://www.avg.com 
Version: 8.0.173 / Virus Database: 270.8.1/1727 - Release Date: 
10/15/2008 
8:02 PM
(See attached file: C.htm)
(See attached file: RFI HSD427-14.pdf)
(See attached file: RFI HSD427-10.pdf)
(See attached file: RFI HSD427-11.pdf)
(See attached file: RFI HSD427-12.pdf)
(See attached file: RFI HSD427-13.pdf)
(See attached file: MR-24 17oct08.doc)
*******************************************************************************
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incompatibility with your computer system).

Opinions contained in this e-mail do not necessarily reflect the opinions of the Queensland 
Department of Main Roads, Queensland Transport or Maritime Safety Queensland, or endorsed 
organisations utilising the same infrastructure.
*******************************************************************************

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disclosure by others is strictly prohibited. 
If you are not the intended recipient (or authorized to receive information for the intended 
recipient), please contact the sender by reply e-mail and delete all copies of this message. 
(See attached file: C.htm)
(See attached file: RFI HSD427-14.pdf)
Hempsall Steel Detailing Pty Ltd  
Unit 7, 16-22 Bremner Rd  
ROTHWELL QLD 4022  
ACN 090 691 204  ABN 49 090 691 204  
Ph 3204 1054  
Fax 3204 1053  
Email: hempsall@cf.net.au

Request for Information  
Ref No. HSD427 - M4

To: J F Hull Holdings Pty Ltd  
Date: 16-10-08

From: Peter Hempsall

Attention: John Hull

Pages 1 of 1

Job: Pine River Fishing Platform

cc:

---

RS: DRG AG 62908/8 - HANDRAIL SPG07 JOIN DE604

Please advise if the H/Dail is shop or field welded to the stanchions. (No site welding is noted & if it is shop welded then the frame will be very flimsy for transit/boat)

---

Reply:

---

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.

Information Required By: 17/10/08  
Answered By:

Requested By:  
PTECH/HC/606  
Company:  

Name:  
Date:  

/10/08  

Company:  


Request for Information

To: J F Hull Holdings Pty Ltd
Attention: John Hull
Job: Pine River Fishing Platform

Date: 16/10/08
From: Peter Hemsall
Pages 1 of 1

Re: DRG 405221/8 = 405205/C

ON SECTION 3 ON DRG 405221 THE HEIGHT OF THE PAE IS NOTED AS 1885. SECTION 4.010 DRG 405205 THE HEIGHT IS NOTED AS 1880

PLEASE ADVISE CORRECT FIGURE TO USE OR DO WE USE 1880.

Reply:

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.

Information Required By: 17/10/08
Requested By: [Signature]

Answered By:
Name: [Signature]  Date: [Signature]
Company: [Signature]
Hemsall Steel Detailing Pty Ltd
Unit 7, 16-22 Bremner Rd
ROTHWELL QLD 4022
ACN 090 691 204 ABN 49 090 691 204
Ph 3204 1054
Fax 3204 1053
Email: hemsall@at.net.au

Request for Information

Ref No. HSD427 - H

To: J F Hull Holdings Pty Ltd
Attention: John Hull
Job: Pine River Fishing Platform

Date: 16-10-08
From: Peter Hemsall
Pages 1 of 1

RE: DCG 46521/8 - DETAIL Z

THE DETAIL NOTES A TOP ENCLOSED.
POS CONFIRM THIS IS SUPPLIED WITH THE
PLANNING FOR THE WATER HOLE.

IF NOT POS SUPPLY COMPLETED DETAILS
R/E'D

Reply:

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.

Information Required By: 16/10/08
Requested By: Peter Hemsall

Answered By:
Name: ............... Date: ........../......./08
Company: ...............
Hempsall Steel Detailing Pty Ltd
Unit 7, 16-22 Bremner Rd
ROTHWELL QLD 4022
ACN 090 691 204 ABN 49 090 691 204

Request for Information

To: J F Hull Holdings Pty Ltd
Attention: John Hull
Job: Pine River Fishing Platform

Date: 16-18-08
From: Peter Hempsall
Pages

Reply:

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.

Information Required By: 17/10/08
Requested By: Peter Hempsall
Answered By: Name: Date: 10/08
Company:

attached drawings 2,3,4
POS ANSI HOSE SIZE FOR WATER SUPPLY 100

_email: hempsall@st.net.au
Ph 3204 1054
Fax 3204 1053
Hempsall Steel Detailing Pty Ltd
Unit 7, 16-22 Bremner Rd
ROTHWELL QLD 4022
ACN 090691204 ABN 49 090 691 204
Ph 3204 1054
Fax 3204 1053
Email: hempsall@st.net.au

Request for Information

To: J F Hull Holdings Pty Ltd
Date: 16/10/08

From: Peter Hempsall

Attention: John Hull

Job: Pine River Fishing Platform

cc:

Ref No. HSD427-13

1. On DRG 405218, 405206/8 Stations are noted as SA & SB as no notation is made on DRG 405218. P&L confirm these stations are R.O.D. on the 1/10/08 om the office ramp.

2. P&L confirm the SB station is R.O.D. at the light fitting location of the light fitting is R.O.D. in location and not on DRG 405218.

Reply:

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.

Information Required By: 17/10/08
Requested By: Peter Hempsall

Answered By:
Name: Date: 17/10/08
Company: 

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.
17 October 2008

Our Ref: MR -24 17Oc08

Mr Stuart Reeves
Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Tel 07 3897 6800

Dear Stuart

Re RFI – Pine River Fishing Platform - Shop Drawings

Please find attached further requests for information HSD427 10 -14 for your attention.

In relation to this current request and the outstanding RFI’s forwarded previously could you please consider a meeting with the designers to discuss these issues.

Outstanding RFI’s 3, 5, 7,8 and 9.

Yours faithfully

John Hull

John Hull
HULL ALBEM JOINT VENTURE
Correspondence # 39
Our Reference: CS/557

19th November 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7665
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI – Pine River Fishing Platform Handrail Queries

The subcontractor who has been preparing shop drawings for the Pine River Fishing Platform piles, Hampsall Steel Detailing Pty Ltd, is nearing completion of the drawings but had some discrepancies with the engineering drawings.

As detailed in his RFI HSD427 -17, a number of dimensions are highlighter as being different to the engineering drawings. Could you please confirm which are correct.

Regards,

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Hempsall Steel Detailing Pty Ltd
Unit 7, 16-22 Bremner Rd
ROTHWELL QLD 4022
ACN 090 691 204 ABN 49 090 691 204
Ph 3204 1054
Email: hempsall@a1.net.au

Request for Information

Ref No. HSD427 - 17

To: J F Hull Holdings Pty Ltd
Date: 12-11-08

From: Peter Hempsall
Pages 1 of 10

Attention: John Hull
Job: Pine River Fishing Platform

cc:

RE: DRG 405218 405212
RE: ATTACHED SHTS.

THE ATTACHED SHTS ARE EXTRACTS FROM
A LAYOUT WE HAVE DONE FOR THE HIRE
PANELS. ON THE SKETCHES WE HAVE NOTED THE
PANEL NO'S & ALSO NOTED THE FIGURE THAT
WE DIFFER FROM ENG DRG 405212 WA.

COULD YOU PLEASE CHECK OVER OUR FIGURES
& ADVISE WHY WE DIFFER FROM ENG'S
FIGURES.

Reply:

Failure to provide adequate response to this RFI by the requested date will impact on the delivery schedule and cause additional cost to the project.

Information Required By: 13/11/08
Answered By:

Requested By: Peter Hempsall
Company:..........................
Correspondence # 40
FYI see response below.
 Regards,
 Stuart Reeves
 HHDP Superintendent
 Mob 0412370463
 ----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 10/12/2008 03:53 PM ----- 

 "Ben Edgerton"
 <Ben.Edgerton@kbr.com>  To 
 10/12/2008 10:14
 AM <stuart.j.reeves@mainroads.qld.gov.au>
 cc <adrian.c.derbyshire@mainroads.qld.gov.au> Subject 
 FW: RFI - Fishing Platform Bearing Pads

 Stuart
 Response below.

 Thanks

 Ben Edgerton
 Civil Engineer
 KBR (Kellogg Brown & Root Pty Ltd)
 Level 11, 199 Grey St, South Bank, QLD Australia 4101 Ph 0431 254 061 Fax (07) 3721 6500

 -----Original Message-----
 From: Neil Tincknell
 Sent: Tuesday, 9 December 2008 10:38 AM
 To: Ben Edgerton
 Cc: Jeovan Senthilvasan
 Subject: RE: RFI - Fishing Platform Bearing Pads
Ben,
Plates for Elastomeric bearings on the Fishing Platform are to be SS 316

Thanks,

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: Ben Edgerton
Sent: Monday, 8 December 2008 3:13 PM
To: Neil Tincknell
Cc: Jeevan Senthilvasan
Subject: FW: RFI - Fishing Platform Bearing Pads

eil

Contractor Instigated.

Thanks.

Ben Edgerton
Civil Engineer
KBR (Kellogg Brown & Root Pty Ltd)
Level 11, 199 Grey St, South Bank, QLD Australia 4101 Ph 0431 254 061 Fax (07) 3721 6500

-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au
Sent: Monday, 8 December 2008 3:07 PM
To: Ben Edgerton
Subject: FW: RFI - Fishing Platform Bearing Pads

For response please.
Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 08/12/2008 03:03 PM
-----

"Gary Christian"
<houghton@hullalb

em.com.au>
To
Stuart,

Sorry - try it again!

Regards,

Gary Christian

-----Original Message-----
From: Houghton Project Site Office [mailto:houghton@hullalbem.com.au]
Sent: Monday, 8 December 2008 2:23 PM
To: gary@albem.com.au
Subject: FW: RFI - Fishing Platform Bearing Pads

-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au
Sent: Monday, 8 December 2008 1:43 PM
To: Gary Christian
Cc: archive@hullalbem.com.au
Subject: Re: RFI - Fishing Platform Bearing Pads

Can't find any attachment/s.
Regards,
Stuart Reeves
HMDP Superintendent
Mob 0412370463
"Gary Christian"
 <houghton@hullalbem.com.au>

To

<stuart.j.reeves@mainroads.qld.gov.au>

08/12/2008 12:24 PM

cc

<archive@hullalbem.com.au>

Subject

RFI - Fishing Platform Bearing Pads

Stuart,

In regards to bearing pad of fishing platform please find attached our RFI for you to consider and respond.

Regards,

Neil Braden

(See attached file: C.htm)

******************************************
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Our Reference: GC/615

8th December 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI – Pine River Fishing Platform Bridge Bearings

We would like to request clarification in regards to the type of internal plates for the Laminated Elastomeric Bearings Type 4 and Type 5 for the fishing platform. Based on drawing 405068 Rev C, we have supplied stainless steel grade 316L internal plates for laminated elastomeric bearings. But for fishing platform, drawing 495211 Rev C does not state whether to use 316 stainless steel or Mild Steel internal plates for bearing type 4 and type 5. With regards to the above mentioned query we would like to have your view as to what type and grade of material to be used for the internal plates.

We await your response.

Regards

Neil Braden
Neil Braden
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 41
Houghton Project Site Office

From: stuart.j.reeves@mainroads.qld.gov.au
Sent: Friday, 5 December 2008 9:21 AM
To: houghton@hullalbem.com.au
Subject: Fw: RFI - precast parapets

Please see response below.
Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463
----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 05/12/2008 09:20 AM
-----

"Ben Edgerton"
<Ben.Edgerton@kbr.com>
04/12/2008 05:35 PM

To: <stuart.j.reeves@mainroads.qld.gov.au>
cc: <adrian.c.derbyshire@mainroads.qld.gov.au>

Subject: FW: RFI - precast parapets

---Original Message---
From: Neil Tincknell
Sent: Thursday, 4 December 2008 2:10 PM
To: Ben Edgerton
Cc: Jeevan Senthilvasan
Subject: RE: RFI - precast parapets

Ben,
Yes Span 13 Western side is the same as Span 7 with Type 2 Panels.

---End of Forwarded Message---
Thanks,

Neil Tincknell
Structural Engineer
KBR Government and Infrastructure
Level 11, 199 Grey Street,
South Bank Qld 4101
Ph (07) 3721 6156 Fax (07) 3721 6500
Mail: GPO Box 633 Brisbane Qld 4001

-----Original Message-----
From: Ben Edgerton
Sent: Wednesday, 3 December 2008 9:16 AM
To: Neil Tincknell
Cc: Jeevan Senthilvasan
Subject: FW: RFI - precast parapets

Neil

Contractor instigated.

Thanks

Ben Edgerton
Civil Engineer
KBR (Kellogg Brown & Root Pty Ltd)
Level 11, 199 Grey St, South Bank, QLD Australia 4101 Ph 0431 254 061 Fax (07) 3721 6500

-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au
[mailto:stuart.j.reeves@mainroads.qld.gov.au]
Sent: Wednesday, 3 December 2008 9:14 AM
To: Ben Edgerton
Subject: Fw: RFI - precast parapets

For response please.
Regards,
Stuart Reeves
HHDP Superintendent
Mob 0412370463

----- Forwarded by Stuart J Reeves/SouthEast/QMR/Au on 03/12/2008 09:12 AM
-----

"Warwick
Spackman"

<houghton@hullalb

To
em.com.au>

"Stuart Reeves - DMR"

<stuart.j.reeves@mainroads.qld.gov.au
02/12/2008 04:36
au>
Stuart,

Please refer to the attached for your attention.

Regards,

Clayton Smith

Clayton Smith

Hull Albem Joint Venture

Houghton Highway Duplication Project

(See attached file: C.htm)
(See attached file: DMR_WS_597.pdf)

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If you are not the intended recipient (or authorized to receive information for the intended recipient), please contact the sender by reply e-mail and delete all copies of this message.
Correspondence # 42
Our Reference: WS/685

21st January 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Eastern Parapet – hold down bolts

As discussed on site between W. Spackman and A. Derbyshire today, we are experiencing a clash between the eastern balustrade post hold down bolts and the eastern parapet reinforcement. We propose 3 options that may be considered as acceptable. Could you please review the options and advise which alternative should be adopted. HAJV preferred outcome is option 1. Some sketch’s attached for clarity.

Option 1 - Delete the 170x40x5mm washer plates, and locate the first bolt outside of the 16mm longitudinal bar which is located in the corner of the parapet ligature.

Option 2 - Move the entire bolt assembly eastwards by 35mm to avoid any clashes. The top CHS SS rail would then need to be moved in the equivalent 35mm to maintain the 150mm clearance to the kerb.

Option 3 - Move the washer plates to run east/west rather than long ways. The plate would be located between the 2 conduits. The first bolt would be outside of the 16mm longitudinal bar which is located in the corner of the parapet ligature.

We are thankful for your timely action and response in regards to this request. Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 43
Our Reference: CS/674

15th January 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
NCR 5 – Abutment B Main Ligs 50mm Undersized

For your consideration and disposition, please find provided our NCR 50 relating to the reinforcement to abutment B. The problem is that the main N12 ligatures have been made the same height at those at abutment A, which makes them 50mm too short.

The NCR proposes to lift the entire reinforcement cage. We trust that this is acceptable.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
**NONCONFORMANCE REPORT AND ACTION**

**Houghton Highway Duplication Project**  
Lot Number: Abut B-HS  
NCR No.: 051

**Description:** Abutment B Headstock - Steel reinforcing

**DETAILS OF NONCONFORMANCE:**  
It was discovered while erecting the formwork shutters for the abutment B headstock that the height of the abutment appeared to be incorrect. On further investigation it was revealed that the ligatures for abutment B headstock had been scheduled as for abutment A when in fact abutment B is 50mm deeper. This meant that the steel for the headstock had been tied to level approximately 130-140mm too low for the finished level of the headstock.

**PROPOSED RECTIFICATION/CORRECTIVE ACTION**

<table>
<thead>
<tr>
<th>□ MAJOR</th>
<th>□ MINOR</th>
<th>□ INCIDENTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>(reject/rework required)</td>
<td>(rectification and/or utilisation)</td>
<td>(acceptable without rectification)</td>
</tr>
</tbody>
</table>

We propose to leave the steel reinforcing as is but to lift the entire cage approximately 60-70mm. This will bring the steel to the correct level and provide the correct cover of 70mm at the top surface. This will mean a cover of approximately 130mm at the bottom of the headstock.

Signed: __________________________ (CQR)  
DATE: 16/1/2009

**PROPOSED PREVENTIVE ACTION**

Ensure that the steel schedules are checked whenever there is a change in the element. Wherever possible, establish a reference mark prior to tying of the steel to check on finished levels.

Signed: __________________________ (CQR)  
DATE: 16/1/2009

**SUPERINTENDENT’S APPROVAL/REJECTION**

Your proposals have been:  
Approved ☐  
Rejected ☐

Remarks:

Signed: __________________________ (SUPERINTENDENT)  
DATE: __/__/2009

**NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS**

Above actions carried out. Signed: __________________________ (PM)  
DATE: __/__/2009

**CLOSE-OUT**

Non Conformance Action Log Updated

Signed: __________________________ (CQR)  
DATE: __/__/2009
Our Reference: ac/554

15th November 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE胡顿坦高速公路桥复制项目
工作号165/122/35
RFI—消防主管水流方向

请确认水流通过消防主管的流向是从A支座到B支座。

我们需要知道这一点，因为XB隔膜（项目11，图纸405116）使用了方向流，我们需要将其设置在正确的位置。

如果您有关于上述内容的任何疑问，请随时联系我。

敬上

Clayton Smith

Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 45
Our Reference: CS/747

16th February 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI #116 – bridge, In-situ barrier

We would like to request clarification in regards to the in-situ barrier on the bridge. We note that over the centerline of the pier at the typical/fixed piers the in-situ barrier is to have a filler board to provide a joint which is a nominal 10mm thick. We would like to know if the longitudinal reinforcement in the barrier is intended to terminate at this joint, or if it is to be continuous?

Our understanding is that it is intended to be a continuous barrier (except for at the expansion piers) and therefore the reinforcement should be continuous. However this would mean that there would be no cover to the reinforcement at the nominal join.

We request your clarification. Should you have any queries, please don’t hesitate in contacting the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 46
Our Reference: ac/651

7th January 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE  Houghton Highway Bridge Duplication Project
     Job Number 165/122/35
     RFI 105 – Conflict between Gantry G17 & Existing Services

There is a conflict between the location of Gantry 17 and the existing services in the area.

The pile cap for the Gantry G17 footings is located approximately 1m behind the guardrail (refer drawing 405253).
However, there are several services that also run along this alignment. On the eastern side there is a new Fibre Optic line and on the western side there is electrical, ITS & water lines in direct conflict with the pile positions. We have not exposed the services at this stage but their position is evident by several markers on site – pits, cabinets, etc.

In order for the piles to be driven (as per the design) either the services will need to be relocated or the gantry footings will need to move further outwards away from the road.

Another possible alternative could be to use spread footings for this gantry. The required pile loads are not that high (refer drawing 405255) for the gantries and a spread footing may be able to adequately sustain these loads. This would obviously need to be verified by the designers.

Please clarify how you would like us to proceed in this area.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 47
Our Reference: WS/739

11th February 2009

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE  Houghton Highway Bridge Duplication Project
    Job Number 165/122/35
    Reo arrangement in link slabs/parapets

We would like to request clarification of the reinforcement arrangement for the link slabs.

Refer to drawing 405089 [E], and the “typical section through deck and parapet at link slab”. We note that there are no starter bars shown from the deck into the parapets. Our understanding is that there should no starter bars from the deck into the parapets for the 2m de-bonded zone only and not the full width of the link slab.

Could you please review this and advise. It applies to the west, central and east barriers.

In addition, we do not understand the need for the additional N16 ligatures. They are doubling up on the ligature that is already there and in turn cause greater congestion. We request that these be considered to be deleted.

Thank you for your consideration of the above, if you require any further information please contact the undersigned.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 48
From: Ben Edgerton [mailto:Ben.Edgerton@kbr.com]
Sent: Monday, 19 May 2008 3:55 PM
To: stuart.j.reeves@mainroads.qld.gov.au
Subject: FW: Houghton: Abutment 'A' Bearing Pedestal RL

Stuart

As per below pedestal level of RL 3.840m on drawing 405055 for abutment A is incorrect. Please change as per below.

Thanks

Ben Edgerton
Civil Engineer
KBR (Kellogg Brown & Root Pty Ltd)
Level 11, 199 Grey St, South Bank, QLD Australia 4101
Ph 0431 254 061 Fax (07) 3721 6500

From: Bradley Condon
Sent: Monday, 19 May 2008 2:34 PM
To: Ben Edgerton
Subject: Houghton: Abutment 'A' Bearing Pedestal RL

Ben,

In accordance with all the other Pedestals on Abutment 'A' the fourth from west Pedestal should be **RL 3.822**. Use this level.

RL 3.840 is not correct.

Unfortunately I have not been able to confirm the pedestal levels mathematically. I will look at them tomorrow morning to further confirm all the Pedestal Levels. I have now left the office for the day.

Regards,

Brad Condon
Lead Structural Drafter
Correspondence # 49
Our Reference: WS/167

22nd May 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

**RE** Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Omission of drainage scuppers

Please find attached NCR 005 for your review and acceptance regarding the omission of drainage scuppers from the northern seawall units.

In addition, confirming previous discussions between C. Smith and S. Reeves, the same abovementioned scupper shown in the southern seawall units (which is yet to be cast in place) is to be deleted.

Should you have any questions, please don’t hesitate to contact me.


Regards

*Clayton Smith*

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
### NONCONFORMANCE REPORT AND ACTION

**Houghton Highway Duplication Project**  
**Lot Number:** NSW-A,B,C,D,E-W  
**NCR No.:** 005

**Description:** Northern Seawall units – drainage scuppers

**DETAILS OF NONCONFORMANCE:**
We have recently identified that the 50mm dia. uPVC scupper shown in the precast seawall units has been overlooked during construction. Refer drawing 405166. This oversight affects all northern seawall units.

**PROPOSED RECTIFICATION/CORRECTIVE ACTION**

- □ MAJOR  
  (reject/rework required)
- □ MINOR  
  (rectification and/or utilisation)
- □ INCIDENTAL  
  (acceptable without rectification)

As per previous discussions, redirect water flow to a drainage point (pit) inland, hence removing the requirement for drainage through the seawall units.

Signed: ____________________________ (CQR)  
DATE: 22/1/2008

**PROPOSED PREVENTIVE ACTION**

1. More rigorous attention drawing details required. Update the pre-pour check sheets to incorporate all cast in items.

Signed: ____________________________ (CQR)  
DATE: 22/1/2008

**SUPERINTENDENT’S APPROVAL/REJECTION**

Your proposals have been:  
Approved □  
Rejected □

Remarks:

Signed: ____________________________ (SUPERINTENDENT)  
DATE: ___________ /2008

**NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS**

Above actions carried out. Signed: ____________________________ (PM)  
DATE: ___________ /2008

**CLOSE-OUT**

**Non Conformance Action Log Updated**

Signed: ____________________________ (CQR)  
DATE: ___________ /2008
Correspondence # 50
-----Original Message-----
From: stuart.j.reeves@mainroads.qld.gov.au
[mailto:stuart.j.reeves@mainroads.qld.gov.au]
Sent: Wednesday, 28 May 2008 2:29 PM
To: Houghton Project Site Office
Cc: Archive - Email; Roger.E.Slack@transport.qld.gov.au; Ben.Edgerton@kbr.com; adrian.c.derbyshire@mainroads.qld.gov.au; Robert.G.Paynter@mainroads.qld.gov.au; shauna.m.adams@mainroads.qld.gov.au
Subject: Re: DMR - NCR 007

Please find attached NCR007 accepted.
(See attached file: NCR007.pdf)
Regards,
Stuart Reeves

"Houghton Project Site Office"
<houghton@hullalblem.com.au>
28/05/2008 09:43 AM

"Stuart Reeves"
<stuart.j.reeves@mainroads.qld.gov.au>

"Archive - Email"
<archive@hullalblem.com.au>

DMR - NCR 007

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<td>Warren</td>
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<td>Andy</td>
<td></td>
</tr>
<tr>
<td>File Location</td>
<td>Chart (NCR)</td>
</tr>
</tbody>
</table>

Stuart,

Please see the attached for your information and action.

Thanks
Regards

Warwick Spackman

0417 550 176

Hull Albem Joint Venture

Houghton Highway Duplication Project

No virus found in this outgoing message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 269.24.1/1469 - Release Date: 27/05/2008
1:25 PM

(See attached file: C.htm)
(See attached file: DMR-NCR 007.pdf)

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organisations utilising the same infrastructure.

******************************************************************************

No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 269.24.2/1471 - Release Date: 28/05/2008 5:33 PM
NONCONFORMANCE REPORT AND ACTION

Houghton Highway Duplication Project

Lot Number: Abut A-HS
NCR No.: 007

Description: Abutment A, HS (Headstock)

DETAILS OF NONCONFORMANCE:
It has been identified post completion of the abutment headstock that the side face starter bars for the 2 restraint blocks have been overlooked.

PROPOSED RECTIFICATION/CORRECTIVE ACTION

☐ MAJOR
(reject/rework required)

☐ MINOR
(rectification, and/or utilisation)

☐ INCIDENTAL
(acceptable without rectification)

We would propose to drill and epoxy the starter bars into the top of the headstock. The starter bars shall have 500mm embedment depth. Following this work, we would propose for the lot to be accepted. We propose to use CA 80 pre filled epoxy growth, please refer to the attached data sheet with information on the product.

Signed________________________________________________________________________(CQR) DATE 28/5/2008

PROPOSED PREVENTIVE ACTION

1. Add to pre pour checklist for abutment B headstock pour. Closer attention to drawing details required. All people involved require the correct drawing revision.

Signed________________________________________________________________________(CQR) DATE 28/5/2008

SUPERINTENDENT’S APPROVAL/REJECTION

Your proposals have been: Approved ☐  Rejected ☐

Remarks:

Signed________________________________________________________________________(SUPERINTENDENT) DATE 28/5/2008

NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS

Above actions carried out. Signed___________________________(PM) DATE __________/________/2008

CLOSE-OUT

Non Conformance Action Log Updated

Signed________________________________________________________________________(CQR) DATE __________/________/2008
Correspondence # 51
Our Reference: CS/047

18th February 2008

The Superintendent  
Department of Main Roads  
48 Hornibrook Esplanade  
Clontarf Qld 4019  
Phone (07) 3897 6800  
Fax (07) 3284 7865  
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project  
Job Number 165/122/35  
RFI - Reinforcing in Southern Seawall around Stormwater RCP Blockout

As raised at the informal meeting held on the 12/2/08, we note that the seawall drawings  
405153 C and 405154 C do not show any blockout required for the Line 11 box culvert  
required to run through the seawall unit.

As such, could you please advise any required changes to the reinforcing for such a  
blockout.

In addition, we advise that we have made the Type F unit for the southern seawall. If the  
design line for this stormwater pipe is through the Type F unit, we ask if the alignment can  
be changed slightly so that it will pass through the first Type G unit, which is not made.

We await you reply.

Regards

Clayton Smith  
Hull Albem Joint Venture  
Houghton Highway Duplication Project
Correspondence # 52
Our Reference: CS/064

25th February 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI – Clarification of Details on the Southern Underpass

Bielby’s surveyor, Warren Huston, has raised a number of queries in relation to set out details for the southern underpass – see attached email from Bielby dated 22/2/08.

We note that these issues have been raised directly with Ben Edgerton previously, with this letter formalizing same.

We ask for your earliest attention to this matter as the southern underpass and seawall is an area that we are currently working towards starting, ie we could be in a position to be installing seawall units by the end of the next week.

Regards

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
From: "Sam Bates" <sbates@bielby.com.au>
To: "JF HULL" <jfh@jf Hull.com>
Sent: Friday, 22 February 2008 9:00 AM
Attach: MF02 Vertical Profile doc
Subject: FW: Houghton Hwy Southern Underpass

<<MF02 Vertical Profile.doc>> Clayton,
Below is an email from our surveyor Warren Huston (already CC'ed to you) which outlines an issue with the underpass dimensions, conflict between drawings. He has spoken to Ben Edgerton about it and Ben is looking into the issue. Can you please pass the email below + attachment onto Stuart to formalise the request, as we need this information to finalise the underpass model hence determine the extremities of our sand-bag wall.

Regards,
BIELBY Holdings Pty Ltd

---Original Message-----
From: Warren Huston
Sent: Thursday, 21 February 2008 6:16 PM
To: Sam Bates
Cc: jfh@jf Hull.com
Subject: Houghton Hwy Southern Underpass

Dear Sam,
Request for clarification on Drawing 405148(E) Section X shows dimensions along the underpass at change in grade locations. The sum of these dimensions total 52.0 end to end.
There is a note that says (Measured along centre line) The control line SOP1 to SOP4 matches alignment MF02 at Ch 33.933 and Ch88.555 MF02 with is a length of 54.622 end to end.
If you offset MF02 to obtain the centre of the structure ie 2.225 right of MF02 you obtain a length of 52.029 for the length along the centre of the structure which is close to the 52 stated on section x.
The profile vertical alignment change of grades given for MF02 on drawing 404650 ( file attached ) do not match those indicated by the section X.

Are the section x dimensions along the control line MF02 or the Centre of the Structure Offset 2.225 right of MF02 and what is the correct vertical alignment.
or
If the dimensions on Section x are along the control line MF02 then the

25/02/2008
lengths do not match.

I have spoken to Ben Edgerton and he is looking into it. He asked if we could formally make the request.

Yours faithfully

Warren Huston
F.R.Daniel, Huston & Associates Pty Ltd
Verticle Alignment Name: mf02

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Correspondence # 53
Our Reference: CS/102

2nd April 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Clarification Requests – Southern Underpass

We would request the following clarifications on the southern underpass:

a) Section C on drawing 405155 D – could you please confirm the length required for the M12 bolts for the balustrading. Would 200mm long bolts with a round washer at the head be acceptable?

b) Section C & D on drawing 405151 D – Is it acceptable to eliminate the construction joint half way up the wall?

c) Section C & D on drawing 405151 D – Is the only reinforcing that is 316 SS the N20 verticals on each face of the seaward wall. Does the 316 SS change if the CJ is eliminated as requested in (b) above?

We await your reply on the above, if possible would appreciate a response early next week.

Regards

Clayton Smith

Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
SECTION 9
SCALE 1:20

REINFORCEMENT SHALL BE N20-200, LAPPED 600 UND

SECTION 6
SCALE 1:20

REINFORCEMENT SHALL BE N20-200, LAPPED 600 UND

SECTION 8
SCALE 1:20

REINFORCEMENT SHALL BE N20-200, LAPPED 600 UND

Propose to delete CJ

16 U BARS EACH AT 75 CRS. ALL ANCHOR JOWS

FOR CONSTRUCTION

SOUTHERN PEDESTRIAN UNDERPASS AND SEAWALL PEDESTRIAN UNDERPASS
REINFORCEMENT - SHEET 1 OF 2

BRISBANE CITY/REDCUFFE CITY
HOUGHTON HIGHWAY
BRIGHTON TO CLONTARF

Drawing No. 405151
Drawing
S. Lemon
Checked S. Pratt

Design
I. Robson
Reviewed P. Cummings

Design Review
PLX

Engineering Certification
P. Cummings

drawer No. 2442

For scheme approval
status refer
09RHG.11
(1 of 700)

Queensland Government
Department of Main Roads

Job No. 165/122/35
Contract No. 130049/05

Series Number 881 of 798

Page 21 of 117/2005
Handrail Setout Plan

Typical Stanchion

Section (B)

Plan - Type B Panel

Type C Panel Similar as Noted

Notes:
1. Refer DRG No. 405046 for Steelwork Holes
2. Refer DRG No. 405169 for Bolting Notes
3. All Steelwork and Bolts Shall Be Grade 316 Stainless Steel

Bolt length? Say 200mm
Correspondence # 54
NONCONFORMANCE REPORT AND ACTION

Houghton Highway Duplication Project  Lot Number: HH – ES – S1  NCR No.: 038
HH – ES – S2
HH – ES – S3
HH – ES – S4
HH – ES – S5

Description: Spans 1, 2, 3, 4, 5 - Side restraint elastomeric bearings unable to be installed

DETAILS OF NONCONFORMANCE:
We have been unable to fit some of the side restraint elastomeric bearings due to not having enough gap between the girder and restraint block. This is due to not allowing enough of a recess in the restraint block to allow for construction tolerance. The theoretical minimum gap required is 46mm, in a few places we only have 40mm.

PROPOSED RECTIFICATION/CORRECTIVE ACTION

☐ MAJOR  ☐ MINOR  ☐ INCIDENTAL
(reject/rework  (rectification  (acceptable without
required)  and/or utilisation)  rectification)

Details:
Joint Venture to procure new elastomeric bearings at 30mm thick to be used in the locations where there is not enough gap. This cost shall be borne by the Joint Venture.

Signed: ________________________________ (CQR)  DATE: ______________/

PROPOSED PREVENTIVE ACTION:
As outlined in our letter reference WS/541 – we have amended the restraint block form to increase the size of the recess, therefore providing more tolerance.

Signed: ________________________________ (PM)  DATE: ______________/

SUPERINTENDENT'S APPROVAL/REJECTION

Your proposals have been:  Approved ☐  Rejected ☐

Remarks:

Signed: ________________________________ (SUPERINTENDENT)  DATE: ______________/

NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS

Above actions carried out. Signed: ________________________________ (PM)  DATE: ______________/

CLOSE-OUT

Non Conformance Action Log Updated

Signed: ________________________________ (CQR)  DATE: ______________/
Correspondence # 55
NONCONFORMANCE REPORT AND ACTION

Houghton Highway Duplication Project  Lot Number: Deck Drainage  NCR No.: 183

**Description:** Deck drainage scuppers cast too high.

**DETAILS OF NONCONFORMANCE:** A number of drainage scuppers cast into central barrier along the new bridge of the HHDP were cast in exceedence of vertical tolerance. As such will not allow for adequate drainage across finished surface of roadway. See attached photo.

**PROPOSED RECTIFICATION/CORRECTIVE ACTION**

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<th>□ MAJOR</th>
<th>☐ MINOR</th>
<th>☐ INCIDENTAL</th>
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<tbody>
<tr>
<td>(reject/rework required)</td>
<td>(rectification and/or utilisation)</td>
<td>(acceptable without rectification)</td>
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</table>

Details: Concrete grinding will be undertaken to lower scupper entry to an acceptable level. Then use a cementitious grout/mortar to fill and shape scupper entry to a aesthetically pleasing and functional shape.

Signed.................................................. (CQR)  DATE.........../....../.......

**PROPOSED PREVENTIVE ACTION**

None all scuppers cast.

Signed.................................................. (PM)  DATE.........../....../.......

**SUPERINTENDENT’S APPROVAL/REJECTION**

Your proposals have been:  Approved ☐  Rejected ☐

Remarks:

Signed..................................................(SUPERINTENDENT)  DATE.........../....../.......

**NON CONFORMANCE REVIEW, DISPOSITION AND ACTIONS**

Above actions carried out. Signed:........................................ (PM)  DATE.........../....../.......

**CLOSE-OUT**

Non Conformance Action Log Updated

Signed..................................................(CQR)  DATE:.........../....../.......
Figure 1: Non-conforming scupper central barrier.
Correspondence # 56
Hempsall Steel Detailing Pty Ltd
Unit 7, 16-22 Bremner Rd
ROTHWELL QLD 4022
ACN 090 691 204 ABN 49 090 691 204

Request for Information
To: J F Hull Holdings Pty Ltd
Date: 8/10/08
From: Peter Hempsall

Attention: John Hull
Pages 1 of 2
Job: Pine River Fishing Platform

Re: DR63 405213/B & 405212/C

Refer attached sheet showing dimensions listed on DR6 405212. The dimensions do not fit into the space allowed as per dims on DR6 405171/C. They extend past the pier.

Please advise spacing reqd to make this correct.

Reply:

J.F. HULL
- 8 OCT 2008

Distribution  Date  8/10/08
Job No.  116
H.O.  
S.M.  

Failure to provide adequate response to this RFI by the requested date will impact the delivery schedule and cause additional cost to the project.

Information Required By: 8/10/08
Answered By:
Name:.............  Date:....../....../08
Requested By:.............
Company:..................
Correspondence # 57
Our Reference: WS/397

18th September 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
RFI – Southern Underpass pedestrian lighting

With reference to the details provided for the revised pedestrian lighting in association with the southern underpass, we request clarification on the following:

What is the dimension the centre line of the light pole is to be set back from the face of the concrete? Refer to sketch marked up attached. We note that your earlier email indicates that the light pole is to be aligned with the handrail – however this means it will clash with the handrail. Please clarify.

We also note that there is no specific set out information for the light pole. The marked up drawings we received shows that the poles are located midway between the girders on the existing bridge. We assume that the exact position is not critical, providing that it is located between nominated girders. Obviously, the light pole post will need to be offset from the handrail post for constructability. Please confirm this approach is acceptable.

We request additional information on the post and base plate. However this information will not be required in the immediate future.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Regards,

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
LIGHTING POLE CARRYING LIFELINE

EVERY DISTANT BAR MATERIAL SHALL BE ISOLATED BETWEEN EACH OTHER.
Correspondence # 58
Our Reference: PF/404

20th September 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Gantry & Signage Structure Bolt Connection to Headstocks

Please find attached proposed details to amend the layout of the anchorage bolts of the Gantries and Signage Structures to the Headstocks of the Main Bridge for the HHDP Project.

Two alternative options have been considered in the proposed adjustment to the layout of the anchorage bolts and these are described in further detail below:

Option 1:

Move outer bolts (3 No. either side) to 190 mm spacing’s to avoid clash with vertical leg of shear lig reinforcement. Centre of complete bolt group increased to 678 mm from top of Headstock with the top and bottom bolt groups at 280 mm centres to avoid congested top layer of main headstock reinforcement.

This option results in approximately 20 mm of concrete from the underside of the proposed bolt coupler (refer letter to DMR dated 17th September 2008 – our ref: PF/396) to the taper in the vertical face of the Headstock concrete. Refer attached sketch for further details.

Option 2:

Move outer bolts (3 No. either side) to 190 mm spacing’s to avoid clash with vertical leg of shear lig reinforcement. Centre of complete bolt group increased to 658 mm from top of Headstock with the top and bottom bolt groups at 280 mm centres to avoid congested top layer of main headstock reinforcement.

This option results in approximately 40 mm of concrete from the underside of the proposed bolt coupler (refer letter to DMR dated 17th September 2008 – our ref: PF/396) to the taper in the vertical face of the Headstock concrete. Refer attached sketch for further details.
Please note that the affected Headstocks are at the following Piers:

Pier No. 7 – Eastern end
Pier No. 13 – Western and Eastern end
Pier No. 27 – Western and Eastern end
Pier No. 40 – Western and Eastern end
Pier No. 53 – Western and Eastern end
Pier No. 66 – Western and Eastern end
Pier No. 68 – Eastern end

We await your favourable response on the proposed adjustment to the layout of the anchorage bolts for the Gantry and Signage Structures to the Main Bridge Headstocks.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

 Regards,

Andy Colenso

Andy Colenso
Hull Albem Joint Venture
Houghton Highway Duplication Project
40 mm from U/S coupler to taper

355 mm to U/S of upper horizontal reinforcement from top of concrete

Option 2 for gatry & signage structures bolt connection to headstocks - end elevation

Cross-section
Correspondence # 59
Our Reference: WS/422

25th September 2008

The Superintendent
Department of Main Roads
48 Hornibrook Esplanade
Clontarf Qld 4019
Phone (07) 3897 6800
Fax (07) 3284 7865
Email: stuart.j.reeves@mainroads.qld.gov.au

Attention: Stuart Reeves

RE: Houghton Highway Bridge Duplication Project
Job Number 165/122/35
Clarification of light pole bracket detail for Precast Parapets

Following discussions today between W. Spackman and B. Edgerton we would like to confirm the outcome of the discussion in regard to conflicting details with the location of light pole brackets in relation to the precast parapets.

It was noted and agreed that the correct dimension for the location of the light pole bracket for precast panel types 11 and 24 is as per the detail 2 and detail 8 respectively on drawing number 405108 rev C. As such the typical detail shown on drawing 405110 rev D (view Y/109) is not applicable to panel types 11 and 24.

Thank you for your assistance in this matter.

Regards,

Clayton Smith
Clayton Smith
Hull Albem Joint Venture
Houghton Highway Duplication Project
Correspondence # 60
Can you please clarify the size on conduit to be installed in the median barrier?

Plan 404690 (C) calls up 2 x 63mm Orange HD Conduits.
Standard drawing 1468 calls up 2 x 100mm Orange HD Conduits

On previous projects we have installed the 2x100mm conduits and cover has not been an issue.

Regards,
BIELBY Holdings Pty Ltd

Sam Bates
Project Manager (civil works)
PO Box 52 Kenmore 4069
Phone: (07) 3378 6938
Fax: (07) 3378 7706
Mobile: 0402 120 758

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.5/1696 - Release Date: 9/28/2008 1:30 PM