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| FORM N: PROPONENT PROPOSAL REQUIREMENTS |
| Instructions for filling out Form N: Proponent Proposal Requirements   1. Complete Form N: Proponent Proposal Requirements 2. Follow the proposal instructions in the Proposal Instructions section below |
| **PROPOSAL INSTRUCTIONS**   1. **For each requirement in Section A1. Mandatory Requirements, provide a Y (Yes) or N (No), indicating whether your solution can meet the requirement**. Y indicates that the solution you are proposing will meet the requirements listed in the requirement statement. N indicates that the solution you are proposing will not meet the requirements. 2. **For each requirement in Section B1. Standard Requirements and C1. Additional Requirements, indicate which Proponent Response (Y, C, F, 3, or N) that best describes your solution:**   **Y – Available Immediately:** the solution for the requirement is currently available “out of the box”. Configuration may be required to enable the feature (requirement will be met through changes to settings of tables, switches, and rules without modification to the source code). Requirement is installed and operational at other sites and can be demonstrated to the City of Winnipeg.  **C – Available via Customization:** the solution for the requirement is not currently available, but may be incorporated via customization of the solution components. Requirement will be met through changes to the source code which would require analysis and re-application during updates, upgrades, or when applying software patches.  **F – Future Availability:** the solution for the requirement is not currently available, but will be available in an upcoming planned product release. If this option is indicated, include the date/timeframe when the requirement will be available for implementation, which should be either:   1. A planned release up to 3 calendar months after the RFQ 1003-2016 competition close date, where an additional Proponent response code of **3** should be provided; 2. A planned release up to 6 calendar months after the RFQ 1003-2016 competition close date, where an additional Proponent response code of **6** should be provided, or 3. A planned release up to 12 calendar months or longer after the RFQ 1003-2016 competition close date, where an additional Proponent response code of **12** should be provided.   **3 – Third Party Supplied:** the solution for the requirement is expected to be met by using a third party vendor’s existing product, either integrated or non-integrated.  **N – Not Possible:** the solution for the requirement will not be provided by the Proponent.   1. In the **Detail Notes** column,provide any additional information which further clarifies the Proponent Response.   **Notes:**   1. An omitted response will be assumed to be the same as a response code of “N”. 2. Any deviation from the response code will be re-coded at the discretion of the City of Winnipeg. |

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| 1. **Requirements** | | | | | |
| **A1. Mandatory Requirements** | | | | | |
| **Requirement Description** | **Requirement**  **Category** | **Business Requirements Section** | **LCA- Software Requirements**  **SOF REQ#** | **RFQ**  **Requirement Ref#** | **Proponent Response**  **(Y,N)** |
| Must automate some of the current manual process | Application-wide | Summary |  | R1 |  |
| Must increase efficiencies by increasing the requests capacity | Application-wide | Summary |  | R2 |  |
| Must contain reporting features | Application-wide | Summary |  | R3 |  |
| Must contain coordination and planning features | Application-wide | Summary |  | R4 |  |
| Must decrease chances to create errors | Application-wide | Summary |  | R5 |  |
| Must expand on recording of lane closure to all type of streets instead of only for Regional (Major) streets | Application-wide | Summary |  | R6 |  |
| Must accurately report real-time status for closing lane(s) on any street within the city limit of the City of Winnipeg | Application-wide | Summary |  | R7 |  |
| Must allow Public Works Department to manage and report on unexpected or temporary lane closure due to accident or any other reasons | Application-wide | Summary |  | R8 |  |
| Must support English and French for External website (visible to public) | Application-wide |  | 1.001 | R9 |  |
| Must support English for Internal website (visible only to internal employees) | Application-wide |  | 1.002 | R10 |  |
| Must support iOS and Android smart phone operating systems | Application-wide |  | 1.004 | R11 |  |
| Must support business requirement for ease of accessibility by no software installation required | Application-wide |  | 1.005 | R12 |  |
| Must log changes to all fields | Application-wide |  | 1.006 | R13 |  |
| Data must be compatible with city's GIS data | Application-wide |  | 1.007 | R14 |  |
| Must record all audit records where data was changed on both web site and mobile | History |  | 19.003 | R15 |  |
| Audit records must be in a readable format for both web site and mobile (CSV) | History |  | R16 |  |
| Must contain map on web site – details refer to SOF REQ# 3.001 | Home Page |  | 2.004 | R17 |  |
| Must display disclaimer at the bottom of each page on the web site | Home Page |  | 2.007 | R18 |  |
| Must design around Google Map in the web site | Map - Full Page |  | 3.011 | R19 |  |

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| 1. **Requirements** | | | | | |
| **B1. Standard Requirements** | | | | | |
| **Requirement Description** | **Requirement**  **Category** | **LCA- Software Requirements**  **SOF REQ#** | **RFQ**  **Requirement Ref#** | **Proponent Response (Y,C,F,3,N)** | **Detail Notes** |
| Manual data export should be available for the use by IT Support | Advanced Search | 16.001 | R20 |  |  |
| Should not concern of the format for tablet | Application-wide | 1.003 | R21 |  |  |
| Street names should concatenate when displaying multiple street name | Application-wide | 1.008 | R22 |  |  |
| Should display field on web site: Street | Closure List - Full Page | 4.001 | R23 |  |  |
| Should display field on web site: Directionality of Closure | Closure List - Full Page | R24 |  |  |
| Should display field on web site: Cross streets start and end | Closure List - Full Page | R25 |  |  |
| Should display field on web site: Expected duration date and time | Closure List - Full Page | R26 |  |  |
| Should display field on web site: Description | Closure List - Full Page | R27 |  |  |
| Should display field on web site: Type | Closure List - Full Page | R28 |  |  |
| Should display field on web site: IsNew as an icon | Closure List - Full Page | R29 |  |  |
| Should display field on web site: IsFullDirectional closure as an icon | Closure List - Full Page | R30 |  |  |
| Should display field on web site: IsWithinPeakTime as an icon | Closure List - Full Page | R31 |  |  |
| Field display should synchronize with the map on web site | Closure List - Full Page | 4.002 | R32 |  |  |
| Display should be in table format on web site | Closure List - Full Page | 4.003 | R33 |  |  |
| Appearance of dashboard should differentiate between user roles on web site and mobile | Dashboards | 13.001 | R34 |  |  |
| Appearance of dashboard should differentiate between environments on web site and mobile | Dashboards | R35 |  |  |
| Should contain in dashboard on both web and mobile: Map | Dashboards | 13.002 | R36 |  |  |
| Should contain in dashboard on both web and mobile: Clickable records within table grids | Dashboards | R37 |  |  |
| Should contain in dashboard on both web and mobile: Stat links to more details to itself | Dashboards | R38 |  |  |
| Should contain in dashboard on both web and mobile: Sortable table grid | Dashboards | R39 |  |  |
| Should contain in dashboard on both web and mobile: Filterable table grid | Dashboards | R40 |  |  |
| Should display landing page after user login on both web and mobile | Dashboards | 13.004 | R41 |  |  |
| Should display a combined screen of new lane closure and restriction on mobile | Dashboards | 13.005 | R42 |  |  |
| Should display request a new lane closure on mobile | Dashboards | R43 |  |  |
| Should display go to search screen on mobile | Dashboards | R44 |  |  |
| Should display Quick Links screen on mobile | Dashboards | R45 |  |  |
| Should display FAQ screen on mobile | Dashboards | R46 |  |  |
| Should display settings on mobile | Dashboards | R47 |  |  |
| Should display a combined screen of new lane closure and restriction on web site | Dashboards | 13.006 | R48 |  |  |
| Should display request a new lane closure on web site | Dashboards | R49 |  |  |
| Should display go to search screen on web site | Dashboards | R50 |  |  |
| Should display reports screen on web site | Dashboards | R51 |  |  |
| Should display Quick Links screen on web site | Dashboards | R52 |  |  |
| Should display FAQ screen on web site | Dashboards | R53 |  |  |
| Should display settings on web site | Dashboards | R54 |  |  |
| Should default the record owner to Primary Traffic Investigator | Global Settings | 18.001 | R55 |  |  |
| Should support the change to any approved user to own any new Lane Closure Request | Global Settings | R56 |  |  |
| Should display a list of emails on LCR approval for all related departments and divisions on web site | Global Settings | 18.002 | R57 |  |  |
| Should display WAZE details to the public on the web site | Home Page | 2.003 | R58 |  |  |
| Should display closure list on web page – details refer to SOF REQ# 4.001 | Home Page | 2.005 | R59 |  |  |
| Should contain option to print closure list results only – in table or text format | Home Page | 2.006 | R60 |  |  |
| Should contain Remember Me option to retain login credentials for web site and mobile | Login | 25.001 | R61 |  |  |
| Should contain forgot password link to assist all users | Login | 25.002 | R62 |  |  |
| COW users should contact tech support for password reset | Login | 25.003 | R63 |  |  |
| Should follow the login rules for availability | Login | 25.004 | R64 |  |  |
| Should direct to default dashboard after login success | Login | 25.006 | R65 |  |  |
| Requests Lane Closure should be submitted by approved users for approval in web site | Map - Full Page | 3.001 | R66 |  |  |
| Reported Lane Clousre should be submitted by approved users for approval in web site | Map - Full Page | R67 |  |  |
| Should display field on web site: Street | Map - Full Page | 3.002 | R68 |  |  |
| Should display field on web site: Directionality of Closure | Map - Full Page | R69 |  |  |
| Should display field on web site: Cross streets start and end | Map - Full Page | R70 |  |  |
| Should display field on web site: Expected duration date and time | Map - Full Page | R71 |  |  |
| Should display field on web site: Description | Map - Full Page | R72 |  |  |
| Should display field on web site: Type | Map - Full Page | R73 |  |  |
| Should display field on web site: IsNew as an icon | Map - Full Page | R74 |  |  |
| Should display field on web site: IsFullDirectional closure as an icon | Map - Full Page | R75 |  |  |
| Should display field on web site: isWithinPeakTime as an icon | Map - Full Page | R76 |  |  |
| For R74: Should display “Closure begins today, started after 12am” | Map - Full Page | R77 |  |  |
| For R75: Should display “All lanes closed on street or one full direction is closed on street” | Map - Full Page |  | R78 |  |  |
| For R76: Should display “Closure occurs within peak time (7-9am, 3:30-5:30pm Monday to Friday)” | Map - Full Page | R79 |  |  |
| Should have filter: date and time range on the web site | Map - Full Page | 3.003 | R80 |  |  |
| Should have filter: approved requests on the web site | Map - Full Page | R81 |  |  |
| Should have filter: approved reports on the web site | Map - Full Page | R82 |  |  |
| Should have filter: new requests on the web site | Map - Full Page | R83 |  |  |
| Should have filter: new reports on the web site | Map - Full Page | R84 |  |  |
| Should have filter: full/directional closure on the web site | Map - Full Page | R85 |  |  |
| Should have filter: within peak time on the web site | Map - Full Page | R86 |  |  |
| Should use today’s date as the default date for the filter on the web site | Map - Full Page | 3.004 | R87 |  |  |
| Should apply filter to the map on the web site | Map - Full Page | 3.005 | R88 |  |  |
| Should apply filter to the list of closures on the web site for R88 | Map - Full Page | R89 |  |  |
| Should dedicate a page for the filtered map with legend in the web site | Map - Full Page | 3.008 | R90 |  |  |
| Should display user’s current location with zoom in the web site | Map - Full Page | 3.013 | R91 |  |  |
| Should display users’ current location with zoom on mobile | Map - Full Page | R92 |  |  |
| Should contain input for search on address, street, intersection, place of business in the web site | Map - Full Page | R93 |  |  |
| Should contain input for search on address, street, intersection, place of business on mobile | Map - Full Page | R94 |  |  |
| Should have the function of switching between Earth View and map view in the web site | Map - Full Page | 3.014 | R95 |  |  |
| Should have the function to zoom in and out with fingers on mobile | Map - Full Page | 3.015 | R96 |  |  |
| Should have the function to zoom in and out with mouse button on the web site | Map - Full Page | R97 |  |  |
| Menu should contain a default home page on the web site | Menu | 5.001 | R98 |  |  |
| Menu should contain a page to request/report lane closure on the web site | Menu | 5.004 | R99 |  |  |
| Menu should open Regional Street Map PDF | Menu | 5.005 | R100 |  |  |
| Menu should open Manual of Temporary Traffic Control landing page | Menu | 5.006 | R101 |  |  |
| Menu should be in this order:   * Home; * Map; * List; * Request/Report Lane Closure; * Regional Street Map; * Manual of Temporary Traffic   Control | Menu | 5.007 | R102 |  |  |
| Should display users list in list view on the web site | Organization Admin | 6.002 | R103 |  |  |
| Should have the feature to search by organization name on the web site | Organization Admin | 6.003 | R104 |  |  |
| Should have filter for enabled/disabled organization on the web site | Organization Admin | 6.004 | R105 |  |  |
| Data should be editable in list view on the web site | Organization Admin | 6.005 | R106 |  |  |
| Should have 1 or more user(s) as an administrator | Organization Admin | 6.008 | R107 |  |  |
| Should support the search with a specific record on mobile by LCR ID | Quick Search | 14.001 | R108 |  |  |
| Should support the search with a specific record on mobile by RLC ID | Quick Search | R109 |  |  |
| Should support the search with a specific record on mobile by RR ID | Quick Search | R110 |  |  |
| Should support the search with a specific record on mobile by Street | Quick Search | R111 |  |  |
| Should support the search with a specific record on mobile by Type of record (LCR, RLC, RR) | Quick Search | R112 |  |  |
| Should support the search with a specific record on mobile by Date Range | Quick Search | R113 |  |  |
| Should support the search with a specific record on mobile by Project/Bid ID | Quick Search | R114 |  |  |
| Should support the search with a specific record on the web site by LCR ID | Quick Search | 14.002 | R115 |  |  |
| Should support the search with a specific record on the web site by RLC ID | Quick Search | R116 |  |  |
| Should support the search with a specific record on the web site by RR ID | Quick Search | R117 |  |  |
| Should support the search with a specific record on the web site by User ID | Quick Search | R118 |  |  |
| Should support the search with a specific record on the web site by Street | Quick Search | R119 |  |  |
| Should support the search with a specific record on the web site by Type of record (LCR, RLC, RR, User) | Quick Search | R120 |  |  |
| Should support the search with a specific record on the web site by Date Range | Quick Search | R121 |  |  |
| Should support the search with a specific record on the web site by User First Name/Last Name | Quick Search | R122 |  |  |
| Should support the search with a specific record on the web site by Record Status | Quick Search | R123 |  |  |
| Should support the search with a specific record on the web site by Request Status | Quick Search | R124 |  |  |
| Should support the search with a specific record on the web site by Project/Bid ID | Quick Search | R125 |  |  |
| Should support user registration with user list view | Registration | 26.004 | R126 |  |  |
| Should provide user registration online | Registration | 26.005 | R127 |  |  |
| Should verify all required fields are filled | Registration | 26.008 | R128 |  |  |
| Should allow for canceling registration at any point | Registration | R129 |  |  |
| Should provide confirmation for registration completed | Registration | 26.009 | R130 |  |  |
| Should provide email validation after confirmation for registration completed | Registration | 26.010 | R131 |  |  |
| Should provide a link for validation in the email validating | Registration | 26.011 | R132 |  |  |
| Should receive an approval for all new users from TMB User Administrator | Registration | 26.012 | R133 |  |  |
| Should receive an approval from TMB User Administrator for all users that the organization has no administrator | Registration | 26.013 | R134 |  |  |
| Should follow R91 – R95 for designing the web site and mobile | Report a Lane Closure | 28.002 | R135 |  |  |
| Should display lanes on both the web site and mobile | Report a Lane Closure | 28.005 | R136 |  |  |
| Should display start/end points of the closing lane on both the web site and mobile | Report a Lane Closure | R137 |  |  |
| Should check for completion of Report a Lane closure Form on both the web site and mobile | Report a Lane Closure | R138 |  |  |
| Should allow to choose from the most logical streets for 2 points across multiple streets on both the web site and mobile | Report a Lane Closure | 28.006 | R139 |  |  |
| Should allow to delete one street at a time for multiple streets on both the web site and mobile | Report a Lane Closure | 28.007 | R140 |  |  |
| Should allow to delete all street at once for multiple streets on both the web site and mobile | Report a Lane Closure | R141 |  |  |
| Should display public information of conflict request when conflict occur on both the web site and mobile | Report a Lane Closure | 28.013  28.014 | R142 |  |  |
| Should provide option to proceed as existing request after informing of conflict on both the web site and mobile | Report a Lane Closure | R143 |  |  |
| Should provide option for user to back out after informing of conflict on both the web site and mobile | Report a Lane Closure | R144 |  |  |
| Should provide instruction for completing Lane Closure Request Form with contact details on both the web site and mobile | Report a Lane Closure | R145 |  |  |
| Should provide option to update current Lane Closure Request Form on both the web site and mobile | Report a Lane Closure | R146 |  |  |
| Current Lane Closure Request Form should display with data on both the web site and mobile | Report a Lane Closure | R147 |  |  |
| Should provide option to fill a new Lane Closure Request Form on both the web site and mobile | Report a Lane Closure | R148 |  |  |
| Should remove any report when a Lane Closure Request Form is not updated | Report a Lane Closure | R149 |  |  |
| Should confirm for any emergency when requirements for a Lane Closure request met on both the web site and mobile | Report a Lane Closure | 28.015 | R150 |  |  |
| Should display message of emergency request not met on both the web site and mobile | Report a Lane Closure | R151 |  |  |
| Should provide option for user to back out after confirming emergency request not met on both the web site and mobile | Report a Lane Closure | R152 |  |  |
| Should provide option to fill a new Lane Closure Request Form on both the web site and mobile | Report a Lane Closure | R153 |  |  |
| Should remove any report when a Lane Closure Request Form is not updated | Report a Lane Closure | R154 |  |  |
| Should inform By-law Enforcement Officer with details from the cancelled report | Report a Lane Closure | R155 |  |  |
| Should support closed closure report copy to a new closure report on both the web site and mobile | Report a Lane Closure | 28.016 | R156 |  |  |
| Should notify reporter to update reported lane closure if there are changes 15 minutes prior the scheduled closure time on both the web site and mobile | Report a Lane Closure | 28.017 | R157 |  |  |
| Should notify reporter to update reported lane closure if there are changes 15 minutes prior the scheduled re-opening time on both the web site and mobile | Report a Lane Closure | 28.018 | R158 |  |  |
| Should remind reporter to set as close in the lane closure report within 15 minutes of the scheduled closure time on both the web site and mobile | Report a Lane Closure | 28.019 | R159 |  |  |
| Should remind reporter to edit the lane closure report if there are any within 15 minutes of the scheduled closure time on both the web site and mobile | Report a Lane Closure | R160 |  |  |
| Should remind reporter’s supervisor/alternate contact to set close in the lane closure report within 30 minutes of the scheduled closure time on both the web site and mobile | Report a Lane Closure | 28.020 | R161 |  |  |
| Should remind reporter’s supervisor/alternate contact to edit the lane closure report if there are any within 30 minutes of the scheduled closure time on both the web site and mobile | Report a Lane Closure | R162 |  |  |
| Should remind reporter to set re-open in the lane closure report within 15 minutes of the scheduled re-opening time on both the web site and mobile | Report a Lane Closure | 28.021 | R163 |  |  |
| Should remind reporter to edit the lane closure report if there are any within 15 minutes of the scheduled re-opening time on both the web site and mobile | Report a Lane Closure | R164 |  |  |
| Should remind reporter’s supervisor/alternate contact to set re-open in the lane closure report within 30 minutes of the scheduled re-opening time on both the web site and mobile | Report a Lane Closure | 28.022 | R165 |  |  |
| Should remind reporter’s supervisor/alternate contact to edit the lane closure report if there are any within 30 minutes of the scheduled re-opening time on both the web site and mobile | Report a Lane Closure | R166 |  |  |
| Should contain an owner for a lane closure record for managing validation of an expired reported lane closure on the web site | Report a Lane Closure | 28.023 | R167 |  |  |
| Should assign a status to reporting a lane closure automatically without overriding it | Report a Lane Closure | 28.025 | R168 |  |  |
| Should assign “Complete”, “Cancelled” to status and complete type for cancelled records on both the web site and mobile | Report a Lane Closure | 28.026 | R169 |  |  |
| Should confirm the submission of report on both the web site and mobile | Report a Lane Closure | 28.027 | R170 |  |  |
| Should provide an email template for submission on both the web site and mobile | Report a Lane Closure | 28.028 | R171 |  |  |
| Should provide user options of their own Organization/Department/Division/Branch to view the report | Report a Lane Closure | 28.029 | R172 |  |  |
| Should provide user options of their own Organization/Department/Division/Branch to close the report | Report a Lane Closure | R173 |  |  |
| Should provide user options of their own Organization/Department/Division/Branch to edit the report | Report a Lane Closure | R174 |  |  |
| Should provide user options of their own Organization/Department/Division/Branch to update primary contact | Report a Lane Closure | 28.030 | R175 |  |  |
| Should provide user options of their own Organization/Department/Division/Branch to report scheduled reports until 11:59 pm of the start date | Report a Lane Closure | 28.031 | R176 |  |  |
| Should remind reporter to update any changes 15 minutes prior to the scheduled restriction **in effect** on both the web site and mobile | Report a Restriction | 29.002 | R177 |  |  |
| Should remind reporter to update any changes 15 minutes prior to the scheduled restriction **is removed** on both the web site and mobile | Report a Restriction | 29.003 | R178 |  |  |
| Should remind reporter to update restriction status to in-effect within15 minutes of the scheduled start date and time if it was not done on both the web site and mobile | Report a Restriction | 29.004 | R179 |  |  |
| Should remind supervisor/alternate contact to update restriction status to in-effect within 30 minutes of the scheduled start date and time if it was not done on both the web site and mobile | Report a Restriction | 29.005 | R180 |  |  |
| Should remind reporter to update restriction status to remove within15 minutes of the scheduled start date and time if it was not done on both the web site and mobile | Report a Restriction | 29.006 | R181 |  |  |
| Should remind supervisor/alternate contact to update restriction status to remove within 30 minutes of the scheduled start date and time if it was not done on both the web site and mobile | Report a Restriction | 29.007 | R182 |  |  |
| Should provide option to set owner for the restriction record of whom manages the validation of an expired restriction on both the web site and mobile | Report a Restriction | 29.008 | R183 |  |  |
| Should update all status automatically | Report a Restriction | 29.010 | R184 |  |  |
| Should confirm the success of report submission | Report a Restriction | 29.013 | R185 |  |  |
| Should provide options for user to choose work done for based on Organization/Department/Division/Branch on both the web site and mobile | Report a Restriction | 29.014 | R186 |  |  |
| Should provide options for user to edit work done for based on Organization/Department/Division/Branch on both the web site and mobile | Report a Restriction | R187 |  |  |
| Should provide options for user to close work done for based on Organization/Department/Division/Branch on both the web site and mobile | Report a Restriction | R188 |  |  |
| Should provide option for user to update primary contact to another approved/active user within any organization on both the web site and mobile | Report a Restriction | 29.015 | R189 |  |  |
| Should provide option for user to report scheduled reports until 11:59pm of the start date on both the web site and mobile | Report a Restriction | 29.016 | R190 |  |  |
| Should contain in Lane Closure Report: Street | Reports | 15.001 | R191 |  |  |
| Should contain in Lane Closure Report: Directionality | Reports | R192 |  |  |
| Should contain in Lane Closure Report: Cross streets | Reports | R193 |  |  |
| Should contain in Lane Closure Report: Traffic Effect | Reports | R194 |  |  |
| Should contain in Lane Closure Report: Status | Reports | R195 |  |  |
| Should contain in Lane Closure Report: Created By | Reports | R196 |  |  |
| Should contain in Lane Closure Report: Creation Date/Time | Reports | R197 |  |  |
| Should contain in Lane Closure Report: Start date/time | Reports | R198 |  |  |
| Should contain in Lane Closure Report: End date/time | Reports | R199 |  |  |
| Should contain in Lane Closure Report: User Information - Organizational structure | Reports | R200 |  |  |
| Should contain in Lane Closure Report: User Information – First name | Reports | R201 |  |  |
| Should contain in Lane Closure Report: User Information – Last Name | Reports | R202 |  |  |
| Should contain in Lane Closure Report: User Information – Primary Phone | Reports | R203 |  |  |
| Should contain in Lane Closure Report: User Information – Secondary Phone | Reports | R204 |  |  |
| Should contain in Lane Closure Report: User Information - Email | Reports | R205 |  |  |
| Should enforce first time user to pick an alternate from the existing user in the system before sending request | Request a Lane Closure | 27.003 | R206 |  |  |
| Should follow R83 – R87 for designing the map view on web site and mobile | Request a Lane Closure | 27.005 | R207 |  |  |
| One request should only allow for street on a continuous line along the same street | Request a Lane Closure | 27.009 | R208 |  |  |
| Should provide a separate request for closing on a different street | Request a Lane Closure | R209 |  |  |
| Should provide turn restriction (left/right/through) for each street direction in and out of intersection for each intersection of the selected street | Request a Lane Closure | 27.012 | R210 |  |  |
| Should display message with public information of conflicting request if conflict occur on both the web site and mobile | Request a Lane Closure | 27.016 | R211 |  |  |
| Should contain contact information to TMB in the conflict message on both the web site and mobile | Request a Lane Closure | R212 |  |  |
| Should provide start date with 3 business days after the conflict date attempted to submit | Request a Lane Closure | R213 |  |  |
| Should validate with no conflict in the request before process | Request a Lane Closure | R214 |  |  |
| Should display recommendation of 3 business days window when a new request’s start date is 3 business days or less between an previously approved request’s end date | Request a Lane Closure | 27.017 | R215 |  |  |
| Should display recommendation of 3 business days window when a new request’s end date is 3 business days or less between an previously approved request’s start date | Request a Lane Closure | 27.018 | R216 |  |  |
| Should provide warning on Request Details to administrator when new request has 3 business days or less after its start date with previously approved request’s end date | Request a Lane Closure | 27.019 | R217 |  |  |
| Should provide warning on Request Details to administrator when new request has 3 business days or less before its end date with previously approved request’s start date | Request a Lane Closure | R218 |  |  |
| Should provide warning to administrator when a request has adjacent to an approved request at the same time | Request a Lane Closure | 27.020 | R219 |  |  |
| Should provide option to copy history of request when reviewing | Request a Lane Closure | 27.021 | R220 |  |  |
| A copy Should display all lane closure request | Request a Lane Closure | R221 |  |  |
| A copy Should request with a new request instance | Request a Lane Closure | R222 |  |  |
| A copy Should request as per user submitting a new request | Request a Lane Closure | R223 |  |  |
| A copy should default with current date/time as start date/time | Request a Lane Closure | R224 |  |  |
| A copy should default end date/time to half hours after the current time | Request a Lane Closure | R225 |  |  |
| Should update request status to approved after an approved is received | Request a Lane Closure | 27.022 | R226 |  |  |
| Should inform requestor of the request status changed | Request a Lane Closure | R227 |  |  |
| Should inform COW agencies of the request status changed | Request a Lane Closure | R228 |  |  |
| Should provide a template to inform requestor that the request is approved | Request a Lane Closure | 27.023 | R229 |  |  |
| Should remind requestor one day in advanced of closure date/time for any changes | Request a Lane Closure | 27.024 | R230 |  |  |
| Should remind requestor to report any changes 15 minutes prior to scheduled closure | Request a Lane Closure | 27.025 | R231 |  |  |
| Should remind requestor to report any changes 1 day before the re-opening of the closed lane | Request a Lane Closure | 27.026 | R232 |  |  |
| Should remind requestor to report any changes 15 minutes prior to scheduled re-open | Request a Lane Closure | 27.027 | R233 |  |  |
| Should remind requestor/alternate contact to update status to closed within 15 minutes of scheduled closure when status was not updated to closed | Request a Lane Closure | 27.028 | R234 |  |  |
| Should remind requestor/alternate contact to update any others changes within 15 minutes of scheduled closure when status was not updated to close | Request a Lane Closure | R235 |  |  |
| Should remind requestor/alternate contact/supervisor to update status to closed within 30 minutes of scheduled closure when status was not updated to closed | Request a Lane Closure | 27.029 | R236 |  |  |
| Should remind requestor/alternate contact/supervisor to update any other changes within 30 minutes of scheduled closure when status was not updated to closed | Request a Lane Closure | R237 |  |  |
| Should remind requestor to update status to re-open within 15 minutes of scheduled re-opening time when status was not updated to re-open | Request a Lane Closure | 27.030 | R238 |  |  |
| Should remind requestor/alternate contact/supervisor to update status to re-open within 30 minutes of scheduled re-opening time when status was not updated to re-open | Request a Lane Closure | 27.031 | R239 |  |  |
| Should remind requestor/alternate contact/supervisor to update any other changes within 30 minutes of scheduled re-opening time when status was not updated to re-open | Request a Lane Closure | R240 |  |  |
| Should notify requestor/alternate contact/supervisor that they are subject to a stop work when status was not updated to re-open within 45 minutes | Request a Lane Closure | 27.032 | R241 |  |  |
| Should notify requestor/alternate contact/supervisor that they should update the request within 45 minutes | Request a Lane Closure | R242 |  |  |
| Should display record status to construction agency except “Complete” and “Cancel” | Request a Lane Closure | 27.034  27.037 | R243 |  |  |
| Internal administrators or managers should set the record status manually | Request a Lane Closure | R244 |  |  |
| Should record complete type with an approved status | Request a Lane Closure | 27.035 | R245 |  |  |
| Should update request status to pending and after requestor modified request record | Request a Lane Closure | 27.038 | R246 |  |  |
| Should confirm with requestor for modifying request record | Request a Lane Closure | R247 |  |  |
| Should confirm with requestor by using email template for their changes needs re-approval | Request a Lane Closure | 27.039 | R248 |  |  |
| Should allow internal administrator to transfer ownership of record to another internal administrator | Request a Lane Closure | 27.040 | R249 |  |  |
| Should allow user to change primary contact to another approved/active user within their organization | Request a Lane Closure | 27.041 | R250 |  |  |
| Should display an option for comment for email notification if records status is updated manually by internal administrator | Request a Lane Closure | 27.042 | R251 |  |  |
| Should display a message to user that the request is not necessary if the request of closure is not a regional street | Request a Lane Closure | 27.043 | R252 |  |  |
| Should allow user to exit the request of closure is not a regional street | Request a Lane Closure | R253 |  |  |
| Should provide an option to user to update the request if the request of closure is not a regional street | Request a Lane Closure | R254 |  |  |
| Should notify user for any automatic changes | Request a Lane Closure | 27.044 | R255 |  |  |
| Should use an template to notify requestor for any status change on their request | Request a Lane Closure | 27.045 | R256 |  |  |
| Should allow dynamic comments for any manually status changes | Request a Lane Closure | R257 |  |  |
| Should display message that a request should be made minimum 3 business days in advance of closure when requestor set start date in the past | Request a Lane Closure | 27.046 | R258 |  |  |
| Should display message to user that there are related RLC/RR when updating status | Request a Lane Closure | 27.047 | R259 |  |  |
| Should allow users to close all related RLC/RR when they choose to do so | Request a Lane Closure | R260 |  |  |
| Should allow users to close one request when they choose to do so | Request a Lane Closure | R261 |  |  |
| Should display mobile application download and details | Request/Report Lane Closure Page | 12.001 | R262 |  |  |
| Should display login option | Request/Report Lane Closure Page | 12.002 | R263 |  |  |
| Should display registration option | Request/Report Lane Closure Page | R264 |  |  |
| Should allow user to edit their profile in landing page | Settings | 24.001 | R265 |  |  |
| Should allow user to manage users in landing page | Settings | R266 |  |  |
| Should allow user to manage organizational structure in landing page | Settings | R267 |  |  |
| Should allow user to change global settings in landing page based on their permission | Settings | R268 |  |  |
| Should display Cleary of which organization the administrator user administrates | User Admin | 10.003 | R269 |  |  |
| Should display Cleary of which department the administrator user administrates | User Admin | R270 |  |  |
| Should display Cleary of which division the administrator user administrates | User Admin | R271 |  |  |
| Should display Cleary of which branch the administrator user administrates | User Admin | R272 |  |  |
| Should allow administrators to alter the email delivery option of Lane Closure Request Reminder | User Profile Settings | 17.001 | R273 |  |  |
| Should allow administrators to alter the app notification option of Lane Closure Request Reminder | User Profile Settings | 17.002 | R274 |  |  |
| Should provide approved data of reported lane closure to central repository | Waze | 23.001 | R275 |  |  |
| Should provide approved data of reported lane closure from central repository to Waze | Waze | R276 |  |  |
| Should provide approved data of restriction to central repository | Waze | R277 |  |  |
| Should provide approved data of restriction from central repository to Waze | Waze | R278 |  |  |

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| 1. **Requirements** | | | | |
| **C1. Additional Requirements** | | | | |
| **Requirement Description** | **Requirement**  **Category** | **LCA- Software Requirements**  **SOF REQ#** | **RFQ**  **Requirement Ref#** | **Proponent Response (Y,C,F,3,N)** |
| Should provide an editable rich text field to highlight any important information to the public | Home Page | 2.001 | R279 |  |
| Should provide an option to hide the text field if no text to display | Home Page | R280 |  |
| Should display timer on reported closures when they arrived | Home Page | 2.002 | R281 |  |
| Should display timer on reported openings when they arrived | Home Page | R282 |  |
| Should provide an option to pick current day immediately | Map - Full Page | 3.006 | R283 |  |
| Should provide an option to pick date 2 weeks after current date/time immediately | Map - Full Page | R284 |  |
| Should provide an option to clear all selections | Map - Full Page | 3.007 | R285 |  |
| Should display a list of closures for selection | Map - Full Page | 3.009 | R286 |  |
| Should display a list of selected closures on map | Map - Full Page | R287 |  |
| Should display details for each selected closures on map until user close it | Map - Full Page | 3.010 | R288 |  |
| Should display active items with colour orange on map | Map - Full Page | 3.012 | R289 |  |
| Should display upcoming items with colour magenta on map | Map - Full Page | R290 |  |
| Should display full closure items with colour red on map | Map - Full Page | R291 |  |
| Should display directional closure items with colour red on map | Map - Full Page | R292 |  |
| Should display compass for directionality | Map - Full Page | 3.016 | R293 |  |
| Should allow a full page of map in a new browser tab | Menu | 5.002 | R294 |  |
| Should allow a full page of closure list in a new browser tab | Menu | 5.003 | R295 |  |
| Should provide a template with responsibilities of an user administrator for email notification | Organization Admin | 6.013 | R296 |  |
| Should allow authorized user administrator to use the approved user administrator email | Organization Admin | 6.014 | R297 |  |
| Each department should be under one organization | Department Admin | 7.002 | R298 |  |
| Each division should be under one department | Division Admin | 8.002 | R299 |  |
| Each branch should be under one division | Branch Admin | 9.002 | R300 |  |
| Administrator should be able to remove User Administrator permissions from the Details Page | User Admin | 10.004 | R301 |  |
| Should provide user an login instruction after the user was created by administrator | User Admin | 10.006 | R302 |  |
| Should allow user to create a new password on the first login | User Admin | R303 |  |
| Should display links to Regional Street Map | Request/Report Lane Closure Page | 12.003 | R304 |  |
| Should display links to Manual of Temporary Control | Request/Report Lane Closure Page | R305 |  |
| Should display links to Transit Map | Request/Report Lane Closure Page | R306 |  |
| Should display frequently asked questions and answers area provided by TMB | Request/Report Lane Closure Page | 12.004 | R307 |  |
| Should provide sound alert when a reported lane closure/restriction expires | Dashboards | 13.003 | R308 |  |
| Should provide option to switch on/off sound alert for reported lane Closure expiration | User Profile Settings | 17.003 | R309 |  |
| Should provide option to switch on/off sound alert for reported lane restriction expiration | User Profile Settings | R310 |  |
| Should provide entry for contact of By-law Enforcement Officer who receives emails on cancelled regional street reported lane closures & 3rd notice on failing to report re-opening of lane closure request | Global Settings | 18.003 | R311 |  |
| Should enable user to edit rich text content for public home page banner | Global Settings | 18.004 | R312 |  |
| Should enable user to format rich text content for public home page banner | Global Settings | R313 |  |
| Should enable user to enter hyperlink for public home page banner | Global Settings | R314 |  |
| Should enable user to edit intervals to send notices | Global Settings | 18.005 | R315 |  |
| Should enable user to edit intervals to send reminders | Global Settings | R316 |  |
| Should record the change of Organizational Structure | History | 19.002 | R317 |  |
| Should record the change of User | History | R318 |  |
| Should record the change of LCR | History | R319 |  |
| Should record the change of RLC | History | R320 |  |
| Should record the change of RR | History | R321 |  |
| Should provide an optional area that can be collapsed for Project No. | Report a Lane Closure/Restriction | 20.001 | R322 |  |
| Should provide an optional areas that can be collapsed for Bid No. | Report a Lane Closure/Restriction | R323 |  |
| Should provide an optional areas that can be collapsed for Work Done For | Report a Lane Closure/Restriction | R324 |  |
| Should provide an optional areas that can be collapsed for Nature of Work | Report a Lane Closure/Restriction | R325 |  |
| Should have the option to dial out from the application or other tools through VOIP desk phone | Digital Phone Call | 21.001 | R326 |  |
| Should support GIS layers for display | Map GIS Layers | 22.001 | R327 |  |
| Should provide an option to resend validation email if corresponding email address has not been validated | Login | 25.005 | R328 |  |
| Should provide an option to enter a new organization name when the organization does not exist | Registration | 26.006 | R329 |  |
| Should provide an option to enter a new department name when the department does not exist | Registration | R330 |  |
| Should provide an option to enter a new division name when the division does not exist | Registration | R331 |  |
| Should provide an option to enter a new branch name when the branch does not exist | Registration | R332 |  |
| Should apply masks on the form’s phone fields | Registration | 26.007 | R333 |  |
| Should notify all user administrators within the organizational structure by its level when validating a new user with organization specified | Registration | 26.014 | R334 |  |
| Should notify with template for user’s registration | Registration | 26.015 | R335 |  |
| Should contain user’s organization in the template | Registration | R336 |  |
| Should contain user’s first name in the template | Registration | R337 |  |
| Should contain user’s last name in the template | Registration | R338 |  |
| Should contain an approval link in the template | Registration | R339 |  |
| Should contain a deny link in the template | Registration | R340 |  |
| Should contain a deny message after clicking on the deny link | Registration | R341 |  |
| Should notify user with details on the status of the account | Registration | R342 |  |
| Should display user's contact information for editing | Request a Lane Closure | 27.002 | R343 |  |
| Should display the alternate user used for last request when this is not the first request from this user | Request a Lane Closure | 27.004 | R344 |  |
| User should provide the starting points of the street | Request a Lane Closure | 27.006 | R345 |  |
| User should provide the ending points of the street | Request a Lane Closure | R346 |  |
| User should complete the Lane Closure Request Form | Request a Lane Closure | R347 |  |
| User should complete the Lane Closure Request Form questions that do not related to streets | Request a Lane Closure | 27.010 | R348 |  |
| Should display 2 street names of an intersection on an street image | Request a Lane Closure | 27.014 | R349 |  |
| Should display compass of an intersection on an street image | Request a Lane Closure | R350 |  |
| Should display all possible turn restrictions of an intersection on an street image | Request a Lane Closure | R351 |  |
| User should provide turn restrictions when closure in effect | Request a Lane Closure | R352 |  |
| User should provide the starting points of the street | Report a Lane Closure | 28.003 | R353 |  |
| User should provide the ending points of the street | Report a Lane Closure | R354 |  |
| User should provide the open lanes of the street | Report a Lane Closure | R355 |  |
| User should complete the Report a Lane Closure Form | Report a Lane Closure | R356 |  |
| Should allow user to report only on a single street at a time | Report a Lane Closure | 28.009 | R357 |  |
| Should allow user to report corresponding restrictions for the single street | Report a Lane Closure | R358 |  |
| User should complete the Report a Lane Closure questions that do not related to streets | Report a Lane Closure | 28.011 | R359 |  |
| Should display appropriate drawing on the number of streets coming into the intersection if existing system provided | Report a Restriction | 29.011 | R360 |  |
| Should allow user to create a new restriction without creating a lane closure first | Report a Restriction | 29.012 | R361 |  |
| Should log infractions with Contraventions | Contraventions | 30.001 | R362 |  |
| Should enable law enforcers to create new LCR/RLC/RR with additional contravention information without required information | Contraventions | 30.002 | R363 |  |
| Should ensure an addition of a contravention information is provided before saving | Contraventions | R364 |  |