DSNY SMART System:

District, Broom Depot, Lot Cleaning Task Panel and Main Navigation

Functional Specification

Version 1.1

April 1, 2019

How to Use This Document

This document is intended to be used as a development reference for building the District, Broom Depot, Lot Cleaning Task Panels, and Main Navigation of the SMART System, containing sizes and behaviors for all fields and controls. Each development screen is broken up into wireframes that represent logical groupings.
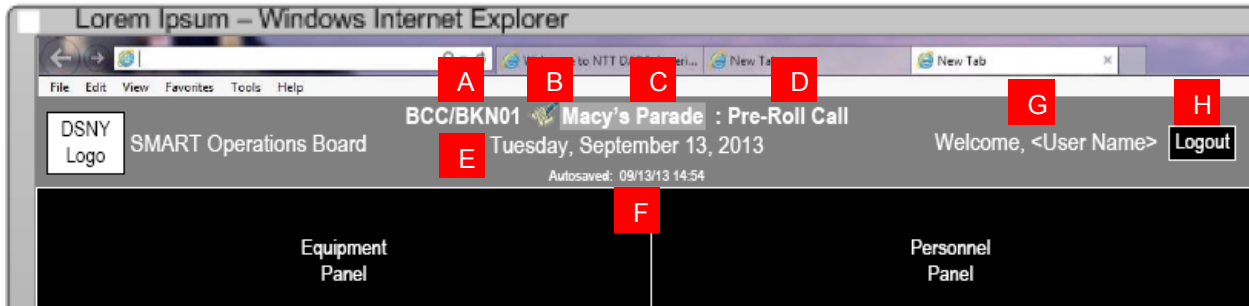
Each section contains:

- A wireframe layout of the page
- A brief description of the page, notes about the particular state that this wireframe is showing, and any associated page rules
- All pages from which the user can click to get to this one and to where the user can go from this one (not including links within the global header or footer, or other globally defined areas)
- All dynamic data that appears on this page and the rules that govern it
- All functional behavior of this page, including defaults, required fields, error checks, and system actions that occur as a result of the user doing something on this page
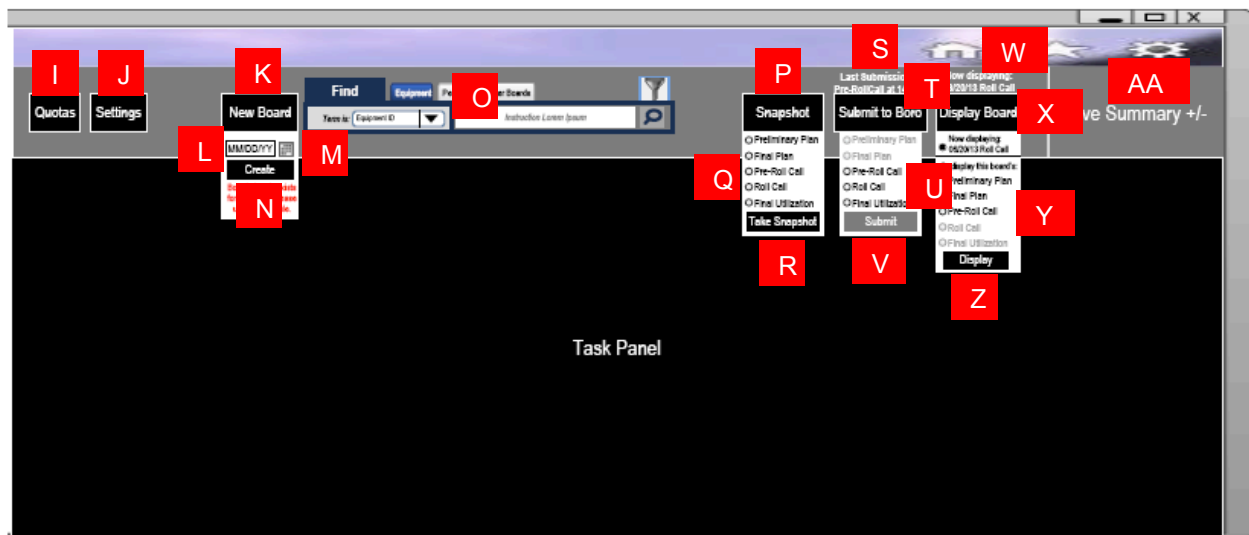
The wireframes presented are meant to convey the functional layout of the page. They are *not* meant to be exact representations of the final page layout.

Main Navigation Bar

Left Monitor

Right Monitor

Description	Main Navigation Bar includes major navigation elements for the SMART System and is visible at all times.
Entry Points	Main Navigation bar is always visible upon signing into SMART System.
Exits	None

List of Modules	- Board Title Fields - Quotas Toggle Button - Settings Toggle Button - New Board Toggle Button - Find Module "Snapshot" Toggle Button - Submit to Boro Toggle Button - Publish to Display Board Toggle Button - Live Summary Area - Welcome Message - Logout Button
Error States	See Wireframe 1.0.2x.
Page Rules	By default, user is taken to active board for current day after being linked from PeopleSoft landing page.

Dynamic Areas

Dynamic Area	Notes
Board Information: Autosave	- Autosave information is automatically updated to reflect the date and time (in 24-hour format) on which the active operations board was last saved. - Displayed as [MM][backslash][DD][backslash][YYYY][space][HH][colon][MM].
Live Summary Module	Live Summary Module is automatically updated to reflect progress towards meeting current equipment and personnel quotas. See Main Navigation Bar: Live Summary Module for details.
Submit to Boro Label	Above the Submit to Boro button, label dynamically displays the state name that was last submitted to the boro, as well as the day and time of submission in 24-hour format.
Now Displaying Label	When an operations board is published to its associated display board, label dynamically displays the board date and state currently being shown.

Functional Behavior

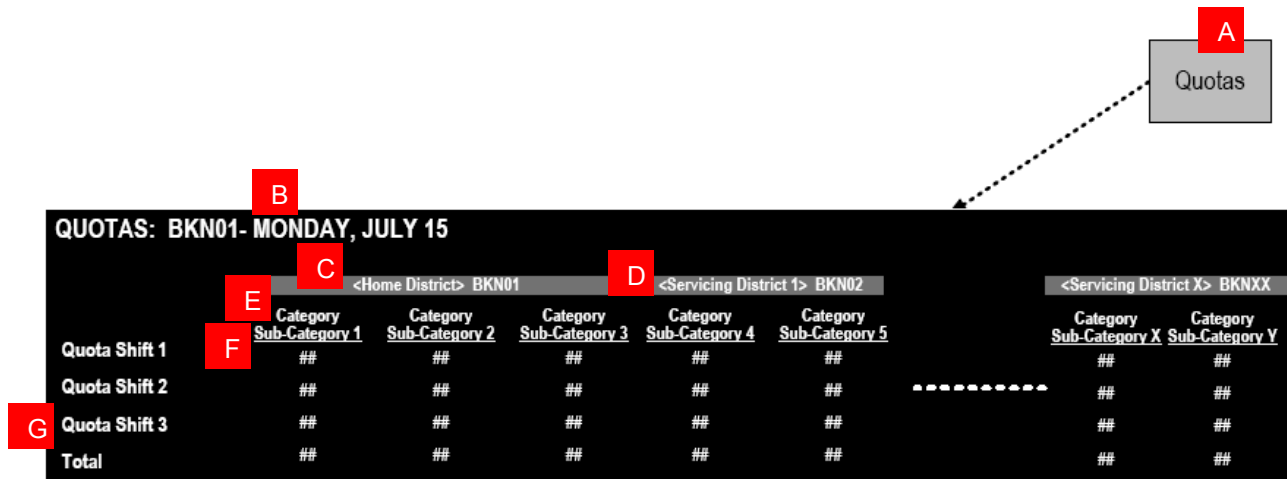| Functional Area	Notes

Board Naming Button and Field	• If board has no label, naming icon is displayed, which, when clicked, disappears, generating a text field in which user may enter a name to be associated with the active board.
	    o Text field defaults to <Board Name>.
	    o Max 25 characters.
	• If user clicks away from naming field without entering a label, naming icon re-appears.
	• A board's name may be edited in all states.

Quotas Button	On click, shows or hides Quotas information. See Wireframe 1.0Q.
Settings Button	On click, shows or hides Settings area. See Wireframe 1.0.4.

New Board Toggle Button	• On click, reveals input field to enter date, as well as system calendar picker.
	    o User clicks "Create" to create board and new blank board is opened in a new browser tab.
	        ▪ If board already exists for the selected date, an error message is generated.

Find Module	Contains elements to search for specific equipment or personnel objects located in all panels, as well for existing operations boards. See Wireframe 1.0.6.

"Snapshot" Toggle Button	• On click, shows or hides menu containing elements for taking a snapshot of the current state of the active board.
	    o User chooses radio button, followed by "Take Snapshot", which closes the toggle button.
	    o Radio buttons default to unselected.
	    o User can also close toggle button without performing an action.
	• Button changes state to indicate that it has been toggled on/off.

Functional Area	Notes

Submit to Boro Toggle Button	• On click, shows or hides menu that allows user to send active board roll-up data to the boro roll-up board.
	
	    o User chooses radio button, followed by "Submit", which closes the toggle button.
	
	    o Radio buttons default to unselected.
	
	    o User can also close toggle button without performing action.
	
	• Board states that cannot be selected are grayed-out.
	
	    o As boro submits its roll-up data to HQ, grayed-out data options change to block district from submitting a state behind the boro.
	
	• Button changes state to indicate that it has been toggled on/off.

Publish to Display Board Toggle Button	• On click, shows or hides menu that allows user to view the active operations board on an associated display board.
	
	    o User chooses radio button, followed by "Display", which closes the toggle button.
	
	• After a board state is selected, the radio button menu defaults to the topmost option, which displays the state currently shown on the associated display board.
	
	    o If no board is on display, radio buttons default to unselected.
	
	• Button changes state to indicate that it has been toggled on/off.

Logout Button	On click, logs user out of PeopleSoft and ends their session.

Component Name	Component Type	Input (Event)	Description	Notes
A	Text	None	Displays organization name and shop name, in the format [Organization Name][space][backslash][Shop Name].	3 character max for org name. 6 character max for shop.
B	Button, if a name has not been entered for the active board	On click	Generates a text entry field in which user may enter a name for the active board. Button disappears on click.	
C	Entry Field	Clicking cursor in field	Allows user to enter a name/label for the active board. If field is blank, displays "Board Name" in gray text until user clicks into field and begins typing.	Max 25 characters.
		Clicking away from field	If no text has been entered into field, re-generates Naming Button (see annotation B).	
D	Text	None	Displays board state.	Values are limited to: • Preliminary Plan • Final Plan • Pre-Roll Call • Roll Call • Final Utilization • Active Board
E	Text	None	Displays date of active board in format [Day][comma][space][Month][space][DD][comma][space][YYYY].	Max 29 characters.
F	Text	None	Displays date and time (in 24-hour format) of last auto-save, in format [MM][backslash][DD][backslash][YYYY][space][HH][colon][MM].	Max 16 characters.
G	Text	None	Displays welcome message for user, in format ["Welcome"][comma][space][FirstName][space][LastName].	
H	Button	On click	Logs user out of PeopleSoft and ends their session.	
I	Button	On click	Shows or hides Quotas information. Button changes state to indicate that it has been toggled on/off.	See Wireframe 1.0Q
J	Button	On click	Shows or hides Settings area. Button changes state to indicate that it has been toggled on/off.	See Wireframe 1.0.4
K	Modal Button	On click	Shows or hides fields for creating a new operations board. Button changes state to indicate that it has been toggled on/off.	
L	Entry Field	Clicking cursor in field	Allows user to enter the date of a board, in format MM/DD/YY. Defaults to blank, with instruction text. If field is blank, displays "MM/DD/YY" in gray text until user clicks into field and begins typing.	User is allowed to type date as well as use date picker. Max 8 characters.
M	Button	On click	Generates default calendar date picker.	
N	Button	On click	Checks to see if a board has been created for the selected	

Component Name	Component Type	Input (Event)	Description	Notes
			date. If no board exists, directs user to a new, blank operations board for selected date in a new browser tab. If a board already exists on the specified date, user is presented with an error message: "A board already exists for the selected date."	
O	Module	On click, on text entry	Contains elements to find specific equipment or personnel objects located in all panels, as well for previous operations boards.	See Wireframe 1.0.6
P	Modal Button	On click	Shows or hides menu containing elements for taking a snapshot of the active board. Button changes state to indicate that it has been toggled on/off.	

Q	Radio buttons	On click	Selects a snapshot to be captured and assigned.
			
			If a snapshot already exists for a state, assigning a new snapshot to that state overwrites the previous one.
			
			Radio buttons default to unselected.
			
			Options are:
			
			   • Preliminary Plan
			   • Final Plan
			   • Pre-Roll Call
			   • Roll Call
			   • Final Utilization	

R	Button	On click	Takes snapshot of selected state and assigns to radio button selection. Closes toggle menu.	

S	Text	None	Displays the name of the last board state that was submitted, as "Last Submitted: <State Name> MM/DD/YY HH:MM".	State Name values are limited to:
				
				   • Preliminary Plan
				   • Final Plan
				   • Pre-Roll Call
				   • Roll Call
				   • Final Utilization

T	Button	On click	Shows or hides menu that allows user to send board data to boro roll-up. Button changes state to indicate that it has been toggled on/off.	
U	Radio buttons	On click	Selects snapshot data to be sent to the boro roll-up. Once boro roll-up state is submitted to HQ, the associated board state becomes locked for all the boro's districts and shops. If a board state has been locked, its label is grayed-out and the option is not selectable. Radio buttons default to unselected.	
V	Button	On click, if button is active	Sends selected snapshot data to boro roll-up and closes menu. Updates associated label (see annotation S). Button is not active unless a radio button has been selected.	

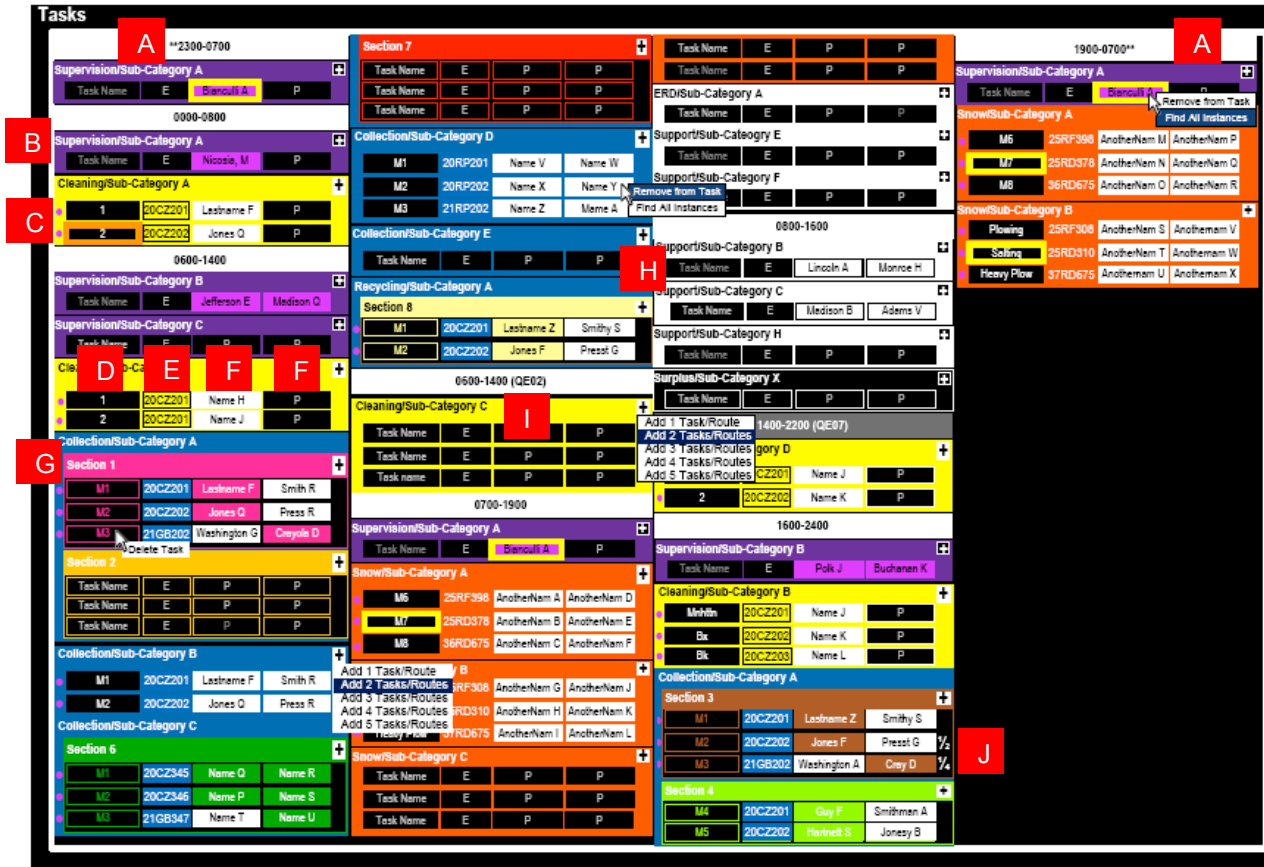| Component Name	Component Type	Input (Event)	Description	Notes
W	Text	None	Displays the date and name of the board currently being shown on an associated display board, as "Now displaying: MM/DD/YY <Snapshot Name>". If no board is being displayed, text does not appear.	State Name values are limited to: • Preliminary Plan • Final Plan • Pre-Roll Call • Roll Call • Final Utilization
X	Modal Button	On click	Shows or hides menu that allows user to choose the snapshot that display on an associated display board. Button changes state to indicate that it has been toggled on/off.	
Y	Radio buttons	On click	Selects a snapshot to be shown on an associated display board. Options are: • Preliminary Plan • Final Plan • Pre-Roll Call • Roll Call • Final Utilization If an operations board is already being displayed on an associated display board, the radio button group defaults to an added first option, which is displayed in format ["Now displaying"][colon][space][MM/DD/YY][space] [SnapshotName]. If a snapshot has not been created, its option is grayed-out and cannot be selected.	
Z	Button	On click	Sends selected board state to the associated display board and closes menu. Creates or updates top-most radio button option to display "Now displaying: DD/MM/YY <Snapshot Name>". Updates label (see annotation W).	
AA	Module	None	Displays live summary surplus/deficit numbers.	See Wireframe "Main Navigation Bar: Live Summary Module".

Wireframe 1.0Q – Quotas Panel

A
Quotas

B
QUOTAS: BKN01- MONDAY, JULY 15

| C <Home District> BKN01 | D <Servicing District 1> BKN02 | <Servicing District X> BKNXX |

E

	Category Sub-Category 1	Category Sub-Category 2	Category Sub-Category 3	Category Sub-Category 4	Category Sub-Category 5		Category Sub-Category X	Category Sub-Category Y
F Quota Shift 1	##	##	##	##	##		##	##
Quota Shift 2	##	##	##	##	##	••••••••••	##	##
G Quota Shift 3	##	##	##	##	##		##	##
Total	##	##	##	##	##		##	##

Description	Quotas Panel displays quotas assigned to Categories and Sub-Categories on the current date of the user's operations board, separated by shift.
Entry Points	Quotas Panel is displayed by clicking on the Quotas button in the Main Navigation Bar.
Exits	User may dismiss this panel by clicking the Quotas button in the Main Navigation Bar while the panel is displayed.
List of Modules	None
Error States	None
Page Rules	• Quotas Panel appears over the entirety of the Main Navigation Bar on the user's left monitor. • Contents of the Main Navigation Bar on the left monitor are not seen or accessible while the Quotas Panel is displayed. • System should target a maximum of 15 Category/Sub-Category columns. • Does not display for Lot Cleaning. • For mechanical broom depots or districts that service themselves and others, an additional header row is inserted, indicating the service location of the quotas.

Functional Behavior

Functional Area	Notes
Quotas Button	• On click, shows or hides Quotas information. • Button changes state to indicate that it has been toggled on/off.

Component Name	Component Type	Input (Event)	Description	Notes
A	Button	On click	Shows or hides Quotas information. Button changes state to indicate that it has been toggled on/off.	
B	Text	None	Displays district and date for active board, in format ["Quotas:"[space][ShopName][space][emdash][space][Day][comma][space][Month][comma][space][DateNumber].	
C	Column Header	None	Quotas for user's home district are displayed in first column.	Appears for districts servicing themselves and others.
D	Column Header	None	Districts outside of the user's home district are displayed in numerical order from left to right, starting in the second column.	Appears for mechanical broom depots and districts that service themselves and others.
E	Text	None	Displays label for a task's category.	Max 10 characters.
F	Text	None	Displays label for a task's sub-category.	Max 15 characters.
G	Text	None	Displays quota shift in format [HHMM][endash][HHMM].	Max 9 characters.

Wireframe 1.0T – Task Panel

Description	Task Panel contains the workspace in which a user assigns equipment and personnel to tasks.
Entry Points	Task Panel is displayed immediately upon signing into SMART System, on the right monitor of a user's dual-screen setup.
Exits	None
List of Modules	• Task Container • Task Name Object • Add Task/Route Button • Equipment/Personnel Object

Page Rules	• Task containers are arranged by shift, in chronological order.
	
	• Shifts that began in the previous day have a double asterisk indicator before the time. Shifts that end in the following day have a double asterisk indicator after the time.
	
	• Within a task, containers appear in the following category order, followed by alphabetical sub-category order:
	   o Supervision
	   o Cleaning
	   o Collection
	   o Recycling
	   o Snow
	   o ERD
	   o Support
	   o Surplus
	
	• Task containers are painted to reference their category/section types (see visual comps for color associations).
	
	• Task containers continuously wrap to the top of the following column.
	
	• The default state of a new task contains one row of available slots with prompt text.
	
	• For mechanical broom depots or districts that service themselves and others, additional title bars are inserted, indicating the external service location of a task during a shift. The additional shift bar is labeled to indicate the first tasks are for the home shop.

Error States	See Wireframe 1.0.2x – Task Panel Error States.

Dynamic Areas

Dynamic Area	Notes
Task Container	• A visual indicator (dot) appears to the left of tasks with assigned supervisors. • A visual indicator appears to the right of partial routes. • The color of a container matches its category type and its section color, if any (see visual comps for color associations).
Equipment & Personnel Objects	• Equipment objects that match user's search criteria are highlighted in red until user clears or changes search criteria. • Personnel objects that match user's search criteria are highlighted in yellow until user clears or changes search criteria.
Task Name Object	Task Names that have personnel assigned to them that satisfy a user's personnel search are highlighted in yellow until user clears or changes search criteria.

Functional Behavior

Functional Area	Notes

• Task Container	• Defaults to holders for a Task Name (as a free form entry field), one empty Equipment object, and two empty Personnel objects.
	
	    o Empty Task Name field defaults to display "T/R".
	
	    o Empty Equipment object defaults to display "E".
	
	    o Empty Personnel objects default to display "P".
	
	• User drags and drops Equipment and Personnel objects from their respective panels to populate empty objects and assign equipment and workers to tasks. Objects snap into slots.
	
	• On double click on container title, opens Task Details sub-panel (see Wireframe 1.0.4).
	
	• Supervisors can be assigned to a task by dragging and dropping a supervisor personnel object onto the Task Name field.
	
	    o Dropping a supervisor object onto a section title assigns the supervisor to all tasks for that section.
	
	    o Dropping a supervisor object onto a Category/Sub-Category title assigns the supervisor to all tasks for that Category/Sub-Category.
	
	    o If a supervisor has already been assigned for a task, dropping a new supervisor object onto that task overwrites the assignment and adds the supervisor's name to the dropdown list of available supervisors for that that task in its Details overlay (see Wireframe 1.0.1).

• Task Name Field	• User can single click in field to edit the name of a task. • On double click, opens Task Details sub-panel (see Wireframe 1.0.4). • On right click, generates system menu that presents the user with the option to remove a task. o Accepting this menu item generates a modal pop-up asking user if he is sure of the action (see Wireframe 1.0.2). Clicking "Yes" deletes the entire task row from the container and shifts lower rows upwards.

Functional Area	Notes

• Add Task/Route Dropdown	• On clicking the Add Task/Route icon, user is presented with a system menu allowing him to add up to 5 new Task rows.
	    ○ Options are:
	        ▪ Add 1 Task/Route
	        ▪ Add 2 Tasks/Routes
	        ▪ Add 3 Tasks/Routes
	        ▪ Add 4 Tasks/Routes
	        ▪ Add 5 Tasks/Routes
	    ○ New rows are added after the last row in the container.
	    ○ If the container has no Sections, the Add Task/Route icon appears in the Category/Sub-Category header.

• Equipment Object	• On double click, opens Equipment Details sub-panel in the Equipment Panel.
	• On right click, opens a system menu:
	    ○ Selecting "Find All Instances" is equivalent to performing a search for that Equipment ID.
	        ▪ The system displays results as if a search is performed and the Main Search module is activated.
	    ○ Selecting "Delete from Task" removes assigned equipment object from task.

• Personnel Object	• On double click, opens Personnel Details sub-panel in the Personnel Panel.
	  • On right click, opens a system menu:
	    ○ Selecting "Find All Instances" is equivalent to performing a search for that Personnel Name.
	        ▪ The system displays results as if a search is performed and the Main Search module is activated.
	        ▪ Search results also highlight the Task Name fields for all tasks to which the person is assigned, including as a supervisor.
	    ○ Selecting "Delete from Task" removes assigned personnel object from task.

Component Name	Component Type	Input (Event)	Description	Notes
A	Text	None	Displays shift time as [HHMM][emdash][HHMM], in 24-hour time. Shifts that began in the previous day have a double asterisk indicator before the time. Shifts that end in the following day have a double asterisk indicator after the time. For districts servicing themselves plus other districts, as well as mechanical broom depots, the tasks for their own district/depot are displayed first.	Max 11 characters.
B	Text	None	Displays Category and Sub-Category in format [CategoryName][backslash][SubcategoryName]. Container is color of category.	Max 30 characters.
C	Display	None	Visual indicator is shown to identify a task that has assigned supervisors.	
D	Task name field	On click	Enables text entry to allow user to manually enter a task name. Defaults to "T/R".	Max 15 characters. Only first 7 characters will appear on associated Display Board.
		On double click	Opens the task details overlay for all tasks in that container (see Wireframe 1.0.1).	
		On click of right click menu	If select "Delete Task", generates a modal pop-up asking user if he is sure of the action (see Wireframe 1.0.2). Clicking 'Yes' clears all objects and deletes the entire task row from the container. If there are multiple rows, shifts lower rows upwards and sends objects back to their source categories in their respective panels. When user initiates "Find All Instances" search from right click menu (see annotation I), results are highlighted in yellow until user edits or removes search criteria from the Main Navigation Bar. If a user rolls over the menu item, there is a state change to show option is highlighted.	
		On click	Lot Cleaning shops may enter the destination of a task in the task name field.	The first 7 characters of this field displays on the Lot Cleaning shop's display board.
E	Equipment Object	None	Blank Equipment object defaults to display "E".	
		On double click	Opens equipment details sub-panel in the Equipment panel.	
		On drag and drop into container	Assigns equipment to task.	
		On drag and drop away from container, into another "E" field	Removes equipment object from the originating task and assigns to destination task.	

Component Name	Component Type	Input (Event)	Description	Notes
		On click of right click menu	If select "Remove From Task", object is removed from task and sent back to its source category in its respective panel	
			If select "Find All Instances", system displays results as if a search is performed for that object and the Main Search module has been activated. Results are highlighted in yellow until user edits or removes search criteria from the Main Navigation Bar.	
			If a user rolls over the right-click menu item, there is a state change to show option is highlighted.	
F	Personnel Object	None	Blank Personnel object defaults to display "P".	
		On double click	Opens personnel details sub-panel in the Personnel panel.	
		On drag and drop into container	Assigns worker to task.	
		On drag and drop away from container, into another "P" field	Removes personnel object from originating task and assigns to destination task.	
		On click of right click menu	If select "Remove From Task", object is removed from task and sent back to its source category in its respective panel	
			If select "Find All Instances", system displays results as if a search is performed for that object and the Main Search module has been activated. Results also highlight the task name fields for all tasks to which the worker has been assigned, including supervisory roles.	
			If a user rolls over the right-click menu item, there is a state change to show option is highlighted.	
G	Text	None	Displays section number.	
			Container color is color of section.	
H	Icon	On click	Generates dropdown menu in which user may add tasks or routes.	
			Appears in section header if a container does not include any sections.	
		On click of dropdown menu	Allows user to add up to five additional tasks or routes to a container.	
			All new rows are added after the last row in the container.	
			Options are: • Add 1 Task/Route • Add 2 Tasks/Routes • Add 3 Tasks/Routes • Add 4 Tasks/Routes • Add 5 Tasks/Routes	

Component Name	Component Type	Input (Event)	Description	Notes
I	Text	None	A district's servicing location tasks are grouped together after their own title bar per shift. External districts are listed in alphanumeric order.	
J	Text	None	Text indicates a partial route, limited to: • 1/8 • ¼ • 3/8 • ½ • 5/8 • ¾ • 7/8 If not a partial route, indicator is not shown.	

Wireframe 1.0.1 – Task Details

Description	Task Details modal panel allows the user to view and manually edit a task's assignments.
Entry Points	Task Details modal panel is displayed when a user double clicks on a Task Name field.
Exits	User may only dismiss the Task Details Panel by clicking the "Save Details" or "Cancel" button.
List of Modules	• Date Picker • Calendar Widget • Supervisor Dropdown • Partial Route Dropdown • Equipment Hyperlink • Save Details Button • Cancel Button

Error States	User is presented with an error message if one or more of the following scenarios are reached upon clicking "Save Details":
	• A Date field is blank
	• The format of a Date entry field does not match MM/DD/YY
	• The contents of a Date entry field are not in an accepted format
	o MM = 01-12
	o DD = 01-31
	o YY = 00-99
	• The value of a Start date is later than its associated End Date
	• The value of an End Date field is earlier than its associated Start Date
	• A Time field is blank
	• The format of a Time entry field does not match 24-hour time HH:MM or HHMM
	• The contents of a Time entry field are not in an accepted format
	o HH = 00-23
	o MM = 00-59
	• If a partial route, a From: and/or To: value has not been entered
	• Start and End date are longer than one day apart
Page Rules	• All screen elements behind Task Details modal panel are inaccessible and grayed-out until the panel is closed.
	• Panel appears directly over Task Panel, centered vertically and horizontally.

Dynamic Areas

Dynamic Area	Notes
Partial Route Fields	• If the user has indicated that a task contains partial routes, "From:" and "To:" text entry fields automatically appear to the right of the associated dropdown. o Selecting "None" from the Partial dropdown hides the fields.

Functional Behavior

Functional Area	Notes
• Date Picker	On click, generates default calendar date picker widget.
• Calendar Widget	Allows user to select date via calendar control. User may navigate forward/backward year and forward/backward month. On select, populates associated date text field. Defaults to highlight current date.

Functional Area	Notes

• Supervisor Dropdown	• A set of two dropdowns allow the user to assign supervisors to a task by selecting from a list.
	
	    o Options include "No Assignment" and the names of all workers dropped onto the task name on the Task Panel.
	
	• Dropdown defaults to "No Assignment" selected.
	
	• When user drops a supervisor Personnel object onto the task name (or a Section or Category/Sub-Category header) in the Task Panel, the first dropdown is dynamically populated with their name.
	
	    o If the user drops a second supervisor onto the task in the Task Panel, and if the second dropdown has "No Assignment" selected, the second supervisor's name fills the first dropdown and the name of the prior first supervisor fills the second dropdown.
	
	    o As the user drops additional supervisors onto the task in the Task Panel, they are loaded into the dropdowns in the order of Last In, Highest Name.

• Partial Route Dropdown	• Dropdown allows user to identify a task as containing a partial route.
	
	• Options include:
	
	    o None (default)
	    o 1/8
	    o ¼
	    o 3/8
	    o ½
	    o 5/8
	    o ¾
	    o 7/8
	
	• On selecting a partial route, the "From" and "To" fields dynamically appear, expanding the panel size to accommodate them.

• Equipment Hyperlink	The number of each piece of equipment associated with a task is displayed as a hyperlink that links to its respective DS-350 form in PeopleSoft, in a new browser tab.

• Save Details Button	• On select, validates all changes made by the user.
	
	    o Invalid data generates an error message (see Wireframe 1.0.2x).
	    o If successful, field values are saved and the panel is dismissed.

• Cancel Button	On select, cancels the editing process, abandons any changes and dismisses the panel.

Component Name	Component Type	Input (Event)	Description	Notes
A	Entry Field	Clicking cursor in field	Allows user to enter the start date on which a shift takes place, in format MM/DD/YY. Defaults to date of the shift. If field is blank, displays "MM/DD/YY" in gray text until user clicks into field and begins typing.	User is allowed to type date as well as use date picker. Max 8 characters.
B	Button	On click	Generates calendar date picker.	
C	Entry Field	Clicking cursor in field	Allows user to enter a shift's start time in 24-hour format. Defaults to time associated to task container. If field is blank, displays "HHMM" in gray text until user clicks into field and begins typing.	Max 4 characters.
D	Entry Field	Clicking cursor in field	Allows user to enter the end date on which a shift takes place, in format MM/DD/YY. Defaults to date of the shift. If field is blank, displays "MM/DD/YY" in gray text until user clicks into field and begins typing.	User is allowed to type date as well as use date picker. Max 8 characters.
E	Entry Field	Clicking cursor in field	Allows user to enter a shift's end time in 24-hour format. Defaults to time associated to task container. If field is blank, displays "HHMM" in gray text until user clicks into field and begins typing.	Max 4 characters.
F	Dropdown	On click	Allows user to select a supervisor for a task. Options include "No Assignment" and the names of all workers dropped onto the task name on the Task Panel. Defaults to "No Assignment".	
G	Entry Field	Clicking cursor in field	Allows user to enter comments corresponding to a task. By default, displays "Enter comments".	Max 50 characters.
H	Hyperlink	On click	Directs user to equipment's DS-350 form in PeopleSoft, in a new browser tab.	
I	Text	None	Displays last name and first initial of a worker assigned to a task.	

J	Dropdown	On click	Allows user to indicate that a task includes a partial route.
			
			Options are:
			
			 o None (default)
			  o 1/8
			  o ¼
			  o 3/8
			  o ½
			  o 5/8
			  o ¾
			  o 7/8	

Component Name	Component Type	Input (Event)	Description	Notes
K	Entry field	Clicking cursor in field	Allows user to enter the district/garage from which a worker is partially assigned.	Max 7 characters.
L	Entry field	Clicking cursor in field	Allows user to enter the district/garage to which a worker is partially assigned.	Max 7 characters.
M	Button	On click	Cancel button dismisses modal panel and abandons changes made to a task.	
N	Button	On click	OK button validates all fields. On fail, generates error message (see Wireframe 1.0.2x). If successful, accepts and saves changes made to the task's details and dismisses modal panel.	

Wireframe 1.0.2x – Task Panel System/Error States

Description	An error message popup is the result of invalid or improperly-entered data in the Task Panel. The message indicates the nature of the error and directs the user to make corrections to resolve it. A message may also act to confirm a user's action.
Entry Points	• An error message is generated when the user attempts to submit a process with invalid data, also highlighting the affected data fields behind the popup. • An error message is continually generated on each incorrect submission until all data validates. • A Yes/No error message is generated when the user attempts to delete a task.
Exits	User must explicitly close the pop-over to dismiss it and to interact with the underlying fields.
List of Modules	• OK Button • Yes Button • No Button
Error States	None

Functional Behavior

Functional Area	Notes
OK Button	On click, dismisses Error Message popup and returns access to all fields behind it.
Yes Button	On click, completes the user's desired action and dismisses the popup.
No Button	On click, aborts the user's desired action and dismisses the popup.

Component Name	Component Type	Input (Event)	Description	Notes
A	Text	None	System message appears embedded within the Task Panel when there are no tasks present. Message displays as: "This board currently has no tasks created. Please go to Settings to set up tasks."	
B	Text	None	If error is caused by an editable field, error message is "Invalid data. Please correct the highlighted fields." If error is caused by system in the background, error message is "System Error. [Description of Error where possible]. Please correct error to continue."	
C	Button	On click	Confirms user action and dismisses the popup.	
D	Button	On click	Aborts process and dismisses the popup.	
E	Button	On click	Dismisses popup.	

Wireframes 1.0.3 & 1.0.3.1 – Update Load Status and Error Message

Default State

Error State

Description	Dialog box allows the user to update the Load Status and Material Type for trucks whose status may require modification.
Entry Points	User generates Update Load Status dialog box by selecting "Update Load Status" button within Equipment Panel.
Exits	User must explicitly dismiss dialog box by saving or cancelling in order to return to the Task Panel.
List of Modules	• Load/Shift Data • Status Dropdown • Material Type Dropdown • Update Button • Cancel Button • OK Button
Error States	User is presented with an error message if a Material Type is not selected when a load is "Relay" or "Rollover".

Page Rules	- Equipment is shown whose Load Status violates the following time error: (Current Time > Task End Time) + (Load Status Last Update Time < Task End Time) - List is ordered chronologically by date/shift start time, then by Equipment ID. - All screen elements behind dialog box are inaccessible and grayed-out until the dialog box is dismissed.

Functional Behavior

Functional Area	Notes
• Load/Shift Data	• Describes date/time of shift, Equipment ID, task category, and current status of each bin, where applicable.

• Status Dropdown	• Dropdown allows user to update a truck's load status.
	
	• Options are:
	   o Select status (default)
	   o Empty
	   o Relay
	   o Rollover

• Material Type Dropdown	• Dropdown allows user to update the contents of a truck's load.
	
	• Options are:
	   o Select Material (default)
	   o Compost
	   o M/G/P
	   o Paper
	   o Refuse
	   o Street Dirt

• Update Button	• On click, causes system to validate data.
	   o If no Material Type is selected for a Relay or Rollover status, error message is displayed and appropriate field is highlighted in red.
	   o If data passes validation, changes are committed to the system and dialog box is closed. Load Status icons are updated in the Equipment Panel for the respective equipment object and load details, and the time of last update is updated in the respective equipment object's Equipment Details sub-panel.
	   o If user leaves status as "Select Status", no changes in load status are applied to the equipment.

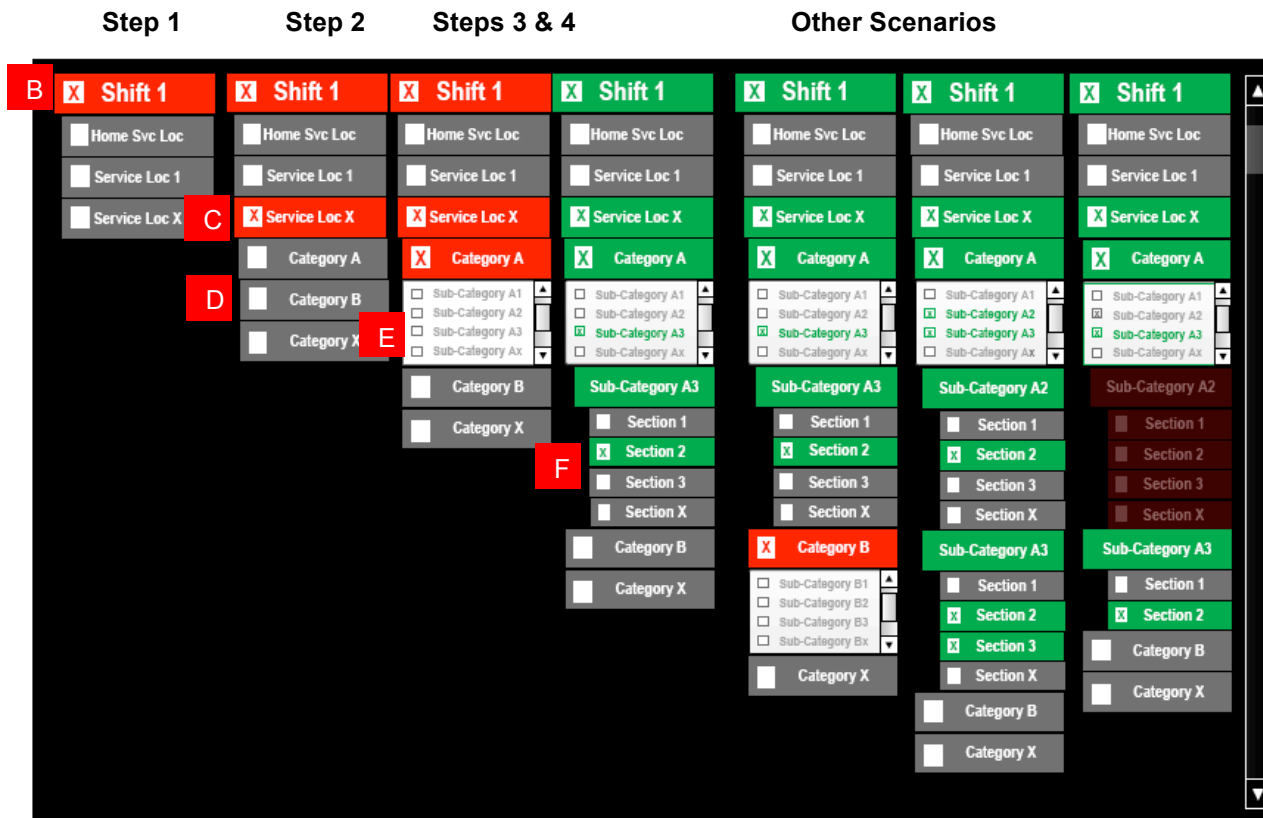| Functional Area	Notes
• Cancel Button	• On click, dialog box is dismissed with no changes committed.
• OK Button	• On click, dismisses Error Message popup and returns access to all content behind it.

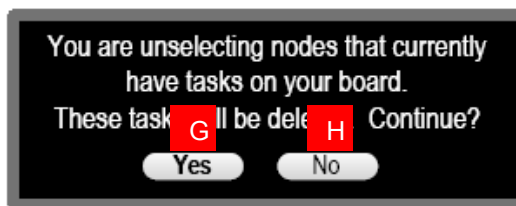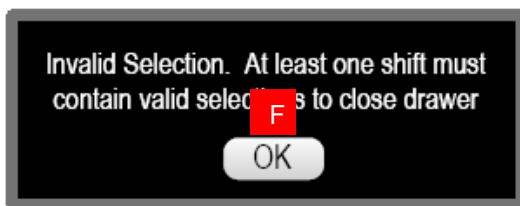| Component Name	Component Type	Input (Event)	Description	Notes
A	Text	None	Displays day, date, and shift time for a truck in the format [FirstTwoLettersOfDay][space][MM/DD/YY][space][HHMM][endash][HHMM].	Max 21 characters.
B	Text	None	Displays equipment number.	Max 7 characters.
C	Text	None	Displays Category and Sub-Category in format [CategoryName][backslash][Sub-CategoryName].	Max 30 characters.
D	Text	None	Displays load status for up to two loads in format [Load1Status][backslash][Load2Status]. Status of second load is only displayed if truck contains two bins.	

E	Dropdown	On click	Allows user to indicate the status for a truck's load.
			
			Options are:
			
			    o Select status (default)
			    o Empty
			    o Relay
			    o Rollover	

F	Dropdown	On click	Allows user to indicate the contents of a truck's load.
			
			Options are:
			
			    o Select material (default)
			    o Compost
			    o M/G/P
			    o Paper
			    o Refuse
			    o Street Dirt	

G	Button	On click	Update button validates all fields. On fail, generates error message (see annotations I & J). If successful, accepts and saves changes and dismisses modal popup.	
H	Button	On click	Cancel button modal popup and abandons changes.	
I	Text	None	Error message is generated when a Relay or Rollover status has no associated material type. Message displays as: "Selecting Relay or Rollover status requires a Material Type."	
J	Button	On click	Dismisses popup.	

Wireframe 1.0.4 – Task Settings

Default State

A

Settings

| 2300-0700 | 0000-0800 | 0500-1300 | 0600-1400 | 0700-1500 | 0700-1900 | 0800-1600 | 1100-1900 | 1400-2200 | 1500-2300 | 1600-2400 | 1900-0300 | 1900-0700 |

Settings Drawer

Task Panel

Interaction Steps

| Step 1 | Step 2 | Steps 3 & 4 | | Other Scenarios | | |

B | X Shift 1
C | X Service Loc X
D | Category B
E | Sub-Category A3
F | Section 2

X Shift 1						
Home Svc Loc	Home Svc Loc	Home Svc Loc	Home Svc Loc	Home Svc Loc	Home Svc Loc	Home Svc Loc
Service Loc 1	Service Loc 1	Service Loc 1	Service Loc 1	Service Loc 1	Service Loc 1	Service Loc 1
Service Loc X	X Service Loc X	X Service Loc X	X Service Loc X	X Service Loc X	X Service Loc X	X Service Loc X

Error States

Invalid Selection. At least one shift must contain valid selections to close drawer

F

OK

You are unselecting nodes that currently have tasks on your board. These tasks will be deleted. Continue?

G

Yes

H

No

Description	Task Settings allows user to configure task containers in the Task Panel.
Entry Points	Task Settings are accessed by clicking the Settings toggle button in the Main Navigation Bar.

Exits	Task Settings are dismissed by clicking the Settings toggle button in the Main Navigation Bar when the Settings are active.
List of Modules	• Settings Toggle Button • Settings Tree • OK Button • Yes Button • No Button
Error States	User is presented with an error message if any of the following scenarios are met: • User attempts to close drawer without selecting a valid container combination. • User un-selects nodes that currently have tasks assigned to them on the current board. o An "Are You Sure?" error message is generated. If user selects "Yes", changes are committed as if the task had been deleted; if "No" is selected, the un-check action is reversed.
Page Rules	• Based on the tree branches/leafs selected, upon drawer closing, corresponding blank task containers are created on the task panel. • Only valid container settings are remembered when drawer is closed and re-opened. • For mechanical broom depots or districts that service themselves and others, a node for the servicing location is inserted between the Shift Time and Category, to allow for selecting the service location of the container. • Lot Cleaning boards follow the same display rules as a district board.

Dynamic Areas

Dynamic Area	Notes
Shift Display	• Shift Display color defaults to gray. • Display color turns green if all Service Location, Category, Sub-Category, and Section content associated with the container are valid. • Display color turns red if one or more of its child Service Locations, Categories, Sub-Categories, or Sections is not valid.
Service Location Display	• Service Location color defaults to gray. • Display color turns green if all Category, Sub-Category, and Section content associated with the container are valid. • Display color turns red if one or more of its child Categories, Sub-Categories, or Sections is not valid.

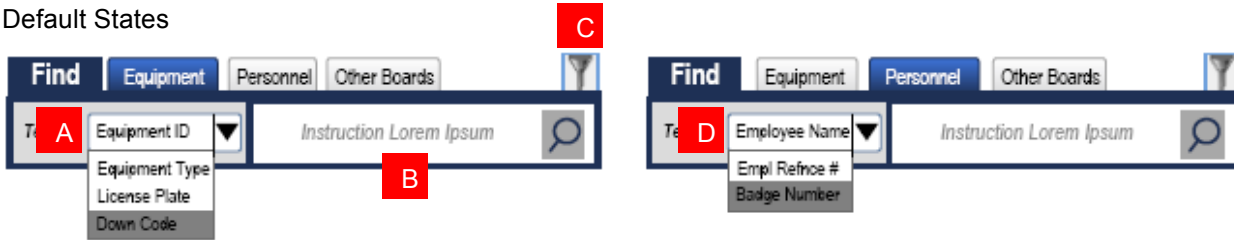| Dynamic Area	Notes
Category Display	• Category Display color defaults to gray. • A Category node requires a Sub-Category to be valid, and is displayed in red when selected until a valid container is created. ○ If the Sub-Category includes Sections, the Category container remains red until a Section is selected. • Node color turns green if all Sub-Category and Section content associated with the container are valid.
Sub-Category Display	• Sub-Category Display color defaults to gray. ○ When selecting a Sub-Category without a Section is the requirement for creating a valid task container, all leafs and branches of the successful pathway is displayed in green, while selected invalid pathways are displayed in red. • Node color turns green if all Section content associated with the container is valid.
Section Display	• Section Display color defaults to gray. • Node color turns green when a selection is made.
Scroll Bar	• If the display of all Shifts, Service Locations, Categories, Sub-Categories, and Sections extends beyond the vertical space of the screen, a scroll bar appears.

Functional Behavior

Functional Area	Notes
Settings Toggle Button	• On click, Settings toggle button expands Settings drawer to appear over the Equipment and Personnel Panels. See design comp for exact placement. • Button changes state to indicate that it has been toggled on/off.
Settings Tree	• On selecting a Shift checkbox, Shift color turns red and Category branches are generated directly below, which default to gray colors and un-selected checkboxes. • On selecting a Category checkbox, Category color turns red and Sub-Category branches are generated directly below, which default to gray and un-selected checkboxes. • If district contains sections, on selecting a Sub-Category checkbox, Sub-Category color turns red and Sub-Category and Section leafs are generated directly below. Sub-Category is red if Sections are required, and Sections default to gray and unselected checkboxes. If no Sections are required, the entire branch turns green. • On selecting a Section checkbox and all choices are valid, Section and all other node colors turn green.

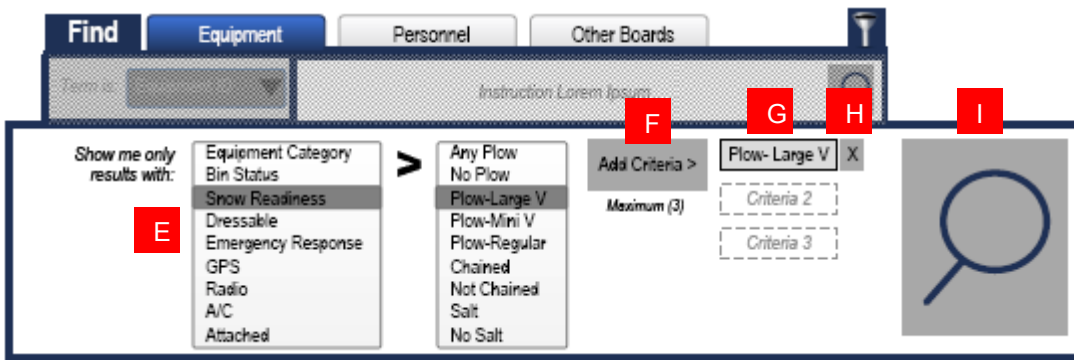| Functional Area	Notes
OK Button	• On click, dismisses Error Message popup and returns access to all content behind it.
Yes Button	• On click, completes the user's desired action and dismisses the popup.
No Button	• On click, aborts the user's desired action and dismisses the popup.

Component Name	Component Type	Input (Event)	Description	Notes
A	Button	On click, when drawer is collapsed	Expands Settings drawer to appear directly over the Task Panel. Button changes state to indicate that it has been toggled on/off.	
		On click, when drawer is expanded	Collapses Settings drawer and applies selected nodes to Task Panel. Only valid settings are retained. Button changes state to indicate that it has been toggled on/off.	
B	Checkbox	On select	Generates Service Location nodes directly below. Defaults to unselected.	Home service location is displayed first, followed by external locations in alphanumeric order.
		On un-select	Hides all child branches.	
C	Checkbox	On select	Generates Category nodes directly below. Defaults to unselected.	
		On un-select	Hides all child branches.	
D	Checkbox	On select	Generates Sub-Category nodes directly below in list box. Defaults to unselected.	
		On un-select	Hides all child branches.	
E	Checkbox	On select	Generates Sub-Category leaf and Section nodes directly below, if applicable. Defaults to unselected.	
		On un-select	Hides all child branches, if applicable.	
F	Checkbox	On select	Changes branch color to green. Defaults to unselected.	
		On un-select	Changes node color to gray and branch to red.	

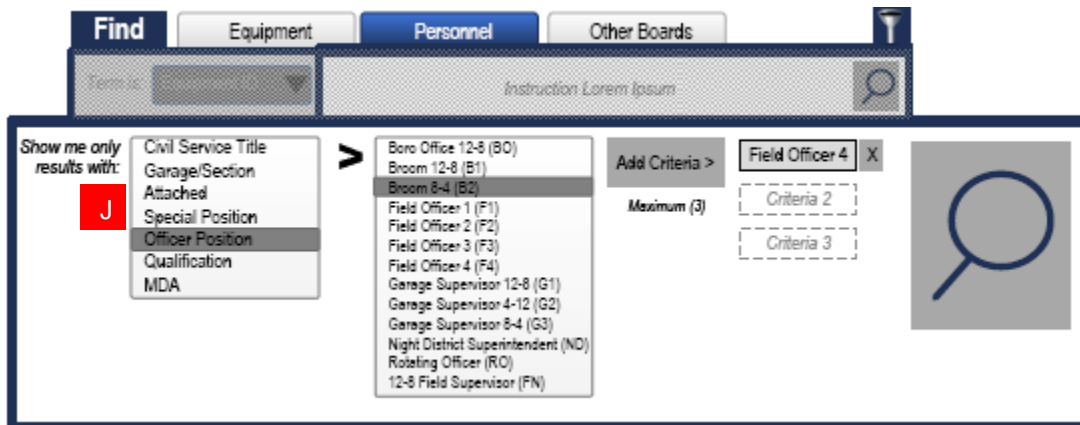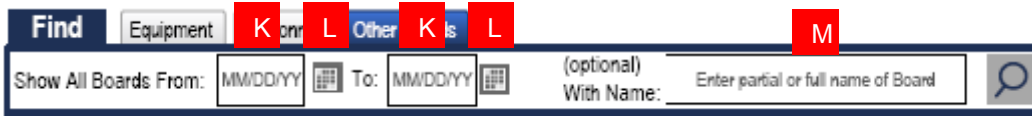# Wireframes 1.0.5 – Find Module: Equipment and Personnel Search
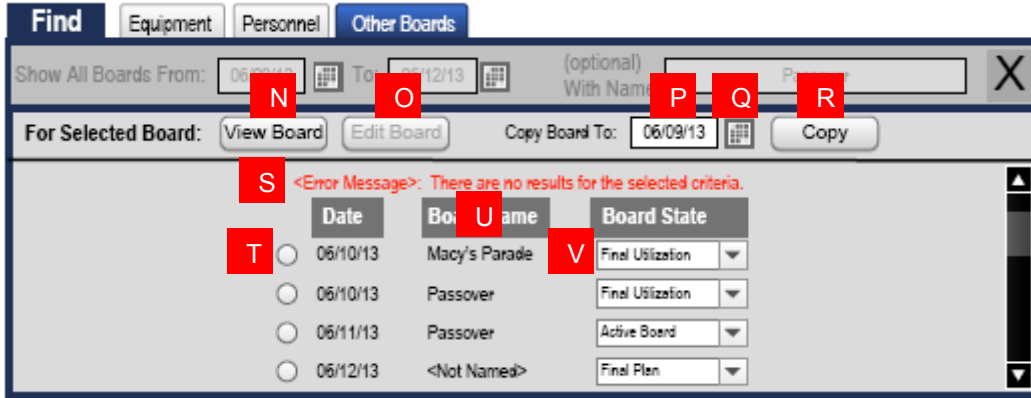
Default States

Equipment "Filter" State
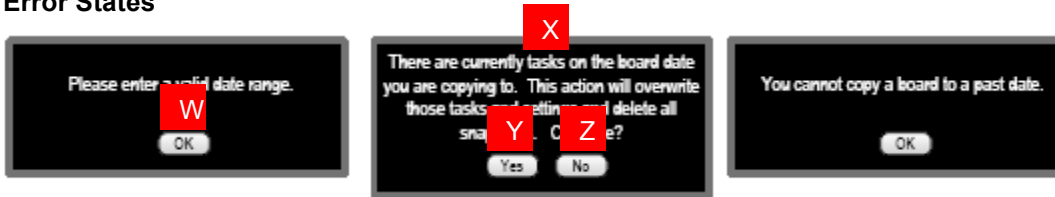

Personnel "Filter" State

Other Boards Default State

Other Boards Results State

Error States

Description	Find Module allows user to conduct searches for equipment across all panels from a single location in the Main Navigation Bar.
Entry Points	Find Module is always present in Main Navigation Bar.
Exits	None

List of Modules	• Filter Toggle
	• Search Criteria Dropdown
	• Text Entry Field
	• "Go" Button
	• Filter Menu and Sub-Menu
	• Add Criteria Button
	• Remove Criteria Area and Buttons
	• OK Button
	• Yes Button
	• No Button
	• Find Data Entry Fields
	• Date Picker
	• View Board Button
	• Edit Board Button
	• Copy Button
	• Board State Dropdown
Error States	• User is presented with an error message if an Equipment or Personnel search yields zero results. Error message reads "Search does not yield any results."
	• User is presented with an error message if any of the following scenarios are met when searching for boards:
	o A search for previous boards yields no results
	o A Date field is blank
	o The format of a Date entry field does not match MM/DD/YY
	o The contents of a Date entry field are not in an accepted format
	▪ MM = 01-12
	▪ DD = 01-31
	▪ YY = 00-99
	o The value of the From: field is later than its associated To: field
	o The value of the To: field is earlier than its associated From: field
	o The user attempts to edit a board whose state is not Final Utilization
	o The user attempts to copy the contents of a previous board onto a later board with existing content in it
	o The user attempts to copy a board to a past date

Dynamic Areas

Dynamic Area	Notes

Search Criteria Dropdowns	• When user clicks on a navigation tab, system displays appropriate dropdown, prompting user on how system should interpret search string.
	    ○ When Equipment tab is active (it is active by default), dropdown displays:
	        ▪ Equipment ID (default)
	        ▪ Equipment Type
	        ▪ License Plate
	        ▪ Down Code
	    ○ When Personnel tab is active, dropdown displays:
	        ▪ Employee Name (default)
	        ▪ Employee Reference #
	        ▪ Badge Number

Instruction Text	• System-generated text displayed in text entry field changes dynamically, based on the active tab and the filter criteria selected.
	    ○ If Equipment tab is active (it is active by default):
	        ▪ If Equipment ID (default) is selected, text displays:
	            • Enter full/partial Equipment ID, ex. "12AB123"
	        ▪ If Equipment Type is selected, text displays:
	            • Enter full/partial Equipment Type, ex. "Snow"
	        ▪ If License Plate is selected, text displays:
	            • Enter full/partial License Plate #, ex. "ABC1234"
	        ▪ If Down Code is selected, text displays:
	            • Enter full/partial Down Code, ex. "DN01"
	    ○ If Personnel tab is active:
	        ▪ If Employee Name (default) is selected, text displays:
	            • Enter full/partial Employee Name, ex. "John Doe"
	        ▪ If Employee Reference Number is selected, text displays:
	            • Enter full/partial Employee Ref. #, ex. "12345"
	        ▪ If Badge Number is selected, text displays:
	            • Enter full/partial License Plate #, ex. "ABC1234"
	• Prompt text disappears once user clicks into field.

Filter Sub-Menu	• Sub-category changes as filter category item is selected.
View Board Button	Button is inactive until user selects a Snapshot or active board from the Board Search Results.
Edit Board Button	Button is inactive until user selects an active board from the Board Search Results.

Dynamic Area	Notes
Copy Button	• Button is inactive until user selects a board Snapshot from the Board Search results and provides a valid Copy Board To: date. o User receives an error message if Copy Button is clicked when an invalid date is entered.
Board Search Results Scrollbar	Scrollbar appears in Board Search Results if the number of results extends beyond the height of the sub-panel. See visual design comps.

Functional Behavior

Functional Area	Notes
Adding Filter Criteria	• User selects filter criteria from filter sub-menu list and clicks "Add Criteria" button to add a criteria to the list.
Removing Filter Criteria	• User clicks "X" button next to each criteria displayed in list to remove it as a criteria in the search.
OK Button	• On click, dismisses Error Message popup and returns access to all content behind it.
Yes Button	• On click, completes the user's desired action and dismisses the popup.
No Button	• On click, aborts the user's desired action and dismisses the popup.
Date Picker	• On click, generates default calendar date picker widget.

View Board Button	• On click, opens the selected board state in a new browser tab in read-only mode.
	
	    o When viewing a Snapshot of a historic board, only the Task Panel displays content. The Equipment and Personnel Panels are blank.
	
	    o For viewing, the following functionalities are disabled within the Main Navigation Bar:
	        ▪ Quotas
	        ▪ Settings
	        ▪ New Board creation
	        ▪ Search/Filter
	        ▪ Snapshot
	        ▪ Submit to Boro
	        ▪ Display Board

Functional Area	Notes

Edit Board Button	• On click, opens the selected board state in a new browser tab.
	    o All board panels may be edited/updated.
	    o All functionalities in the Main Navigation Bar are accessible.
	    o Equipment and Personnel Panels display content appropriate to the date of the historic board.
	    o Autosave functionality is active while editing a historic board.

Copy Button	On click, copies the task settings of the selected board to the selected date in a new browser tab.
Board State Dropdown	On click, allows user to select a board state to view, edit, or copy. Options are: • Active Board (default) • Preliminary Plan • Final Plan • Pre-Roll Call • Roll Call • Final Utilization

Component Name	Component Type	Input (Event)	Description	Notes
A	Dropdown	On click	Equipment dropdown tells system how to interpret search string. Options are: • Equipment ID (default) • Equipment Type • Down Code • License Plate	

B	Entry Field	Clicking cursor in field	Allows user to enter search keywords.
			
			Before user clicks in field, displays contextual instructions. Instructions disappear when user clicks in field.
			
			System-generated text displayed in text entry field changes dynamically, based on the filter criteria selected
			• If Equipment ID (default) is selected, text displays:
			    o Enter full/partial Equipment ID, ex. "12AB123"
			• If Equipment Type is selected, text displays:
			    o Enter full/partial Equipment Type, ex. "Snow"
			• If License Plate is selected, text displays:
			    o Enter full/partial License Plate #, ex. "ABC1234"
			• If Down Code is selected, text displays:
			    o Enter full/partial Down Code,
				Max 50 characters.

Component Name	Component Type	Input (Event)	Description	Notes
			ex. "DN01" Prompt text disappears once user clicks into field.	
C	Button	On click	Filter toggle expands drawer with advanced filter options.	Toggle changes state when drawer is open. Clicking on "Open" toggle icon closes drawer and saves chosen conditions. If a search remains active with filter criteria, the toggle icon remains in "open state" until search is canceled.
D	Dropdown	On click	Personnel dropdown tells system how to interpret search string. Options are: • Employee Name (default) • Employee Reference # • Badge Number	

E	Dual multiple select list	On click	Equipment filter list boxes. Options are:
			
			• Equipment Category
			   o Collection
			   o Cleaning
			   o Miscellaneous
			   o Snow
			• Load Status
			   o Empty
			   o Relay
			   o Rollover
			• Snow Readiness
			   o Any Plow
			   o No Plow
			   o Plow – Large V
			   o Plow – Mini V
			   o Plow – Regular
			   o Chained
			   o Not Chained
			     Salt
			   o No Salt
			• Dressable
			   o Dressable
			   o Not Dressable
			• Emergency Response
			   o No Sand
			   o Sand
			• A/C
				Left box contains list of all categories. Defaults to unselected.
				
				Right box contains respective sub-category list of each category. Defaults to empty.
				
				As user clicks on a category item in the left box, the right box is populated with the appropriate sub-category items.
				
				User then must select a sub-category item in order to then select "Add Criteria" to add the filter to the list.

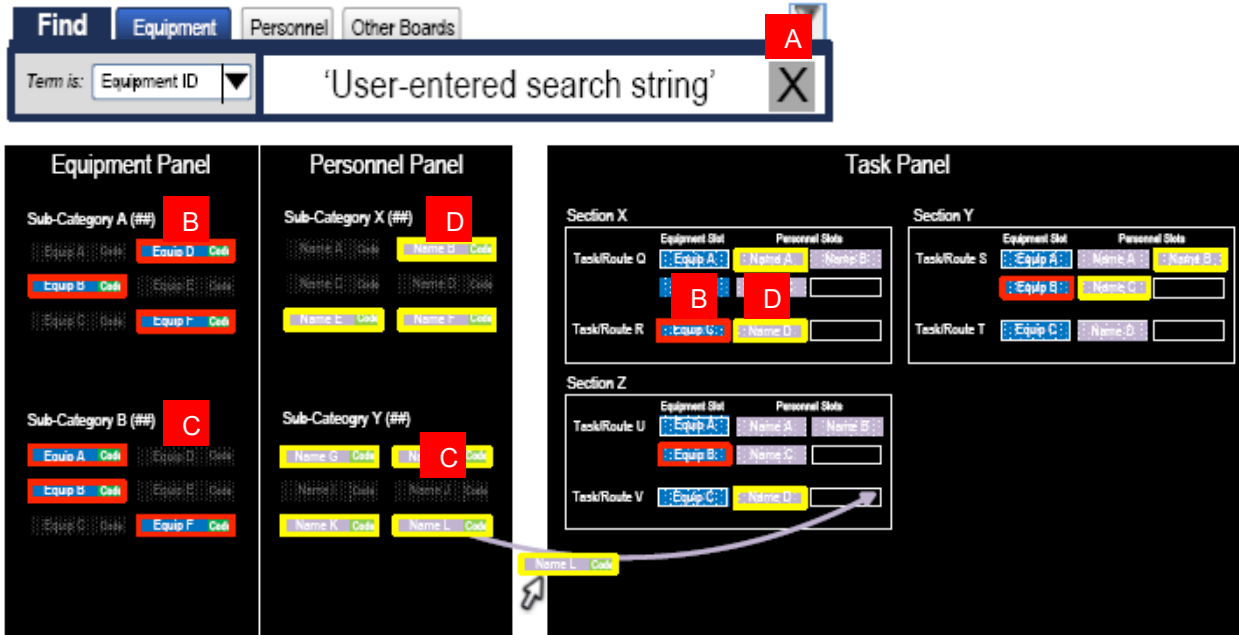| Component Name	Component Type	Input (Event)	Description	Notes

			o Down
			
			    o Up
			
			  • GPS
			
			    o Down
			
			    o Up
			
			  • Radio
			
			    o Down
			
			    o Up
			
			  • Attached
			
			    o Attached
			
			    o Detached	

F	Button	On click	Adds selected filter to search criteria area.	Remains inactive until user selects a sub-category item.
G	Text	None	As search criteria are selected, they appear in a list, with a maximum of 3. Each criterion has an "X" button next to it to remove it. When there are no criteria entered, a dashed outline appears with instruction text for empty "slots" ("criteria 1", "criteria 2", etc.).	
H	Button	On click	Removes criteria from search and from display list	
I	Button	On click	Executes filter search on click. If text also appears in main search entry field, that term is also included as a wildcard filter.	Remains inactive until a filter criterion has been selected.

J	Dual multiple select list	On click	Personnel filter list boxes. Options are:
			
			  • Civil Service Title
			
			    o Civilian
			
			    o GS1
			
			    o GS2
			
			    o GS3
			
			    o Sanitation Worker
			
			    o Supervisor
			
			  • Garage/Section
			
			    o List of all garages/sections in a scroll box
			
			  • Attached
			
			  • Special Position
			
			    o DSOA (OA)
			
			    o EZ Pack (EZ)
			
			    o Garage Utility (GU)
			
			    o Gas & Oil (GO)
			
			    o Mechanical Broom (MB)
			
			    o Ro-Ro (RR)
				Left box contains list of all categories. Defaults to unselected.
				
				Right box contains respective sub-category list of each category. Defaults to empty.
				
				As user clicks on a category item in the left box, the right box is populated with the appropriate sub-category items.
				
				User then must select a sub-category item in order to then select "Add Criteria" to add the filter to the list.

Component Name	Component Type	Input (Event)	Description	Notes

			o Wrecker (WR) • Officer Position
			   o 12-8 Field Supervisor (FN)
			   o Boro Office 12-8 (BO)
			   o Broom 12-8 (B1)
			   o Broom 8-4 (B2)
			   o Field Officer 1 (F1)
			   o Field Officer 2 (F2)
			   o Field Officer 3 (F3)
			   o Field Officer 4 (F4)
			   o Garage Supervisor 12-8 (G1)
			   o Garage Supervisor 4-1 (G3)
			   o Garage Supervisor 8-4 (G2)
			   o Night District Superintendent (ND)
			   o Rotating Officer (RO)
			• Qualification
			   o Bus (BUS)
			   o CFC Removal (CFC)
			   o E-Z Pack (EZP)
			   o Front End Loader (FEL)
			   o Hoist Fitted Chassis (HFC)
			   o Large Wrecker (LWR)
			   o Mechanical Broom (MB)
			   o Roll-on/Roll-off (RORO)
			• MDA
			   o MDA 1L (1L)
			   o MDA 1 (1M)
			   o MDA 2 (2M)
			   o MDA 3 (3M)
			   o MDA 4 (4M)
			   o MDA 4A (4A)
			   o MDA 7 (7M)
			   o MDA 8 (8M)	

K	Entry Field	Clicking cursor in field	Allows user to enter a start/end date period in which to search for a board, in format MM/DD/YY. Field defaults blank and displays "MM/DD/YY" in gray text until user clicks into field and begins typing.	User is allowed to type date as well as use date picker. Max 8 characters.
L	Button	On click	Generates calendar date picker.	
M	Entry Field	Clicking cursor in field	Allows user to enter a partial or full name of a board for which to search. By default, displays "Enter partial or full name of	Max 50 characters.

Component Name	Component Type	Input (Event)	Description	Notes
			Board" in gray text until user clicks into field and begins typing.	
N	Button	On click	Opens the selected board state in a new browser tab. Button is inactive until user selects a board state from the Board Search Results.	
O	Button	On click	Opens the selected board state in a new browser tab. Button is inactive until user selects the Active Board from the Board Search Results.	
P	Entry Field	Clicking cursor in field	Allows user to enter the date to which to copy an existing board, in format MM/DD/YY. Defaults to tomorrow's date. If field is blank, displays "MM/DD/YY" in gray text until user clicks into field and begins typing.	User is allowed to type date as well as use date picker. Max 8 characters.
Q	Button	On click	Generates calendar date picker.	
R	Button	On click	On click, copies the task settings of the selected board to the selected date in a new browser tab. Button is inactive until user selects a board state from the Board Search results and provides a valid Copy Board To: date.	
S	Text	None	If search for historic board does not yield results, error message is displayed in red text: "There are no results for the selected criteria."	
T	Radio buttons	On click	Select an existing board to be viewed, copied, or edited. Radio button group defaults to unselected.	
U	Text	None	Displays name assigned to a historic board. If no name has been entered for a board, it is displayed as "<Not Named>".	
V	Dropdown	On click	Allows user to select a Snapshot for a historic board. Options are: • Active Board (default) • Preliminary Plan • Final Plan • Pre-Roll Call • Roll Call • Final Utilization	
W	Button	On click	Dismisses popup.	
X	Text	None	If user has not entered a valid date range, error message displays as "Please enter a valid date range." If user attempts to overwrite an existing board by copying content onto it, error message displays as "There are currently tasks on the board date you are copying to. This action overwrites those tasks and settings and deletes all snapshots. Continue?"	

Component Name	Component Type	Input (Event)	Description	Notes
			If user attempts to copy a board data to a date that has already taken place, error message displays as "You cannot copy a board to a past date."	
Y	Button	On click	Confirms user action and dismisses the popup.	
Z	Button	On click	Aborts process and dismisses the popup.	

Wireframe 1.0.6 – Find Module: Equipment & Personnel Search Results

Post-Query State

Description	As user enters search criteria and applies filters, the results are displayed in real-time within the Equipment, Personnel, and Task panels.
Entry Points	Search results are returned and highlighted as a user executes a search in the Main Navigation Bar.
Exits	User may return to a default view of any panel (without search results highlighted) by removing all filter criteria and/or clearing the search keyword field (if applicable).
List of Modules	All panels and search field contain the same modules as Wireframes 1.0E, 1.0P, 1.0T, and "Main Navigation: Search Entry".
Error States	User is presented with an error message if a search yields zero results. Error message reads "Search does not yield any results."

Page Rules	• In Equipment and Personnel Panels:
	
	    ○ Only result items display and change display state.
	
	    ○ Equipment and Personnel searches can display simultaneously.
	
	    ○ Items re-order according to their source panel's sort rules.
	
	    ○ Numerical total of each Equipment/Personnel Panel sub-category dynamically update to reflect number of search results.
	
	• In Task Panel:
	
	    ○ All items remain in place and only resultant items change display state.

Dynamic Areas

Dynamic Area	Notes

Task Panel	• Search results that match a user's keywords and/or filter criteria are highlighted with a colored border until user changes search criteria.
	    ○ Equipment objects are displayed with a red border.
	    ○ Personnel objects are displayed with a yellow border.

Equipment and Personnel Panels	• Search results that match a user's keywords and/or filter criteria are highlighted with a red (for equipment) or yellow (for personnel) border until user changes search criteria. • All values that do not match a user's search criteria are hidden.

Component Name	Component Type	Input (Event)	Description	Notes
A	Button	On click	Magnifying glass "Go" button becomes an "X" after it is clicked (when a search has been conducted). When clicked, "X" button clears the text field. Button then reverts back to the default magnifying glass.	
B	Equipment object	Display	When equipment object matches search criteria, it is highlighted with a red border until search criteria is changed.	
C	Equipment & Personnel objects within their respective home panels	Display	When equipment or personnel object does not match search criteria and is located within the Equipment and Personnel panel, it is hidden from view. Remaining objects are re-ordered to eliminate empty space slots.	
D	Personnel object	Display	When personnel object matches search criteria, it is highlighted with a yellow border until search criteria is changed.	

Main Navigation Bar: Live Summary Mode

All Districts

Mechanical Broom Depots

Description	Live Summary provides real-time information comparing equipment and personnel surplus/deficits against current day's quotas on the task panel.
Entry Points	Live Summary is always displayed at the rightmost section of the Main Navigation Bar.
Exits	None
List of Modules	None
Error States	None
Page Rules	• Only displayed for today's board and boards of future dates. • For mechanical broom depots, only the mechanical broom column is displayed under Equipment.

Component Name	Component Type	Input (Event)	Description	Notes
A	Text	None	Freshness of information is displayed as [FirstTwoLettersOfDay][space][Month][DD][space][YYYY][space][HHMM].	Max 21 characters.