



DEPARTMENT OF THE ARMY  
INSTALLATION MANAGEMENT COMMAND PACIFIC  
HEADQUARTERS, UNITED STATES ARMY GARRISON DAEGU  
UNIT #15746  
APO AP 96218-5746

12 DEC 2023

AMIM-DAP (1b)

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Snow Removal and Ice Control Plan

1. References:

- a. DA Pam 420-1-3 Transportation Infrastructure and Dams, 9 April 2009
- b. AR 420-1 Army Facilities Management, 12 February 2008

2. Snow Removal and Ice Control Plan, see enclosure, establishes snow removal and ice control responsibilities and procedures for USAG Daegu to include Camps Carroll, Carroll FOS, Camp Walker, Camp Henry, Camp George, Busan Storage Complex and Pier 8.

a. DPW will execute snow removal and ice control upon 1 inch (3cm) of snow accumulation in the following priority order.

- (1) Airfield, primary roads and gates.
- (2) Secondary roads.
- (3) Parking lots and public sidewalks.

b. Each facility manager is responsible for removing snow and ice from sidewalks 50 feet away from the facilities.

c. Each facility manager can procure ice melt and snow shovels at the DPW Self Help.

- (1) Camp Carroll: DSN 763-2176 and B325
- (2) Camp Walker: DSN 763-5535 and B466

d. If your area is in need of removal of snow or ice immediately due to life, health and safety, please contact DPW Service Desk at DSN 763-4824.

AMIM-DAP

SUBJECT: Snow Removal and Ice Control Plan

3. The point of contact for this memorandum is Mr. Jim E. Casey, Acting Chief of Operations and Maintenance Division, DPW, 763-5321, jim.e.casey.civ@army.mil.

Encl  
as



DAVID F. HENNING  
COL, CA  
Commanding

DISTRIBUTION:  
USAG Daegu Websites/Share Point  
Facility Managers



## FY24 Snow Removal and Ice Control Plan

O&M Div, DPW, USAG Daegu  
WE ARE THE ARMY'S HOME



## Snow Removal and Ice Control Plan

### Historical Information

- Average months with snowfall in Daegu area are December through March. During January, snow falls for 2.4 days and regularly aggregates up to 11mm (0.43") of snow. Throughout the year, there are 8.6 snowfall days, and 43mm (1.69") of snow is accumulated.
- Busan is quite warmer than other parts of the country, in the winter season, the temperature can drop up to -10 degrees. Snow in Busan is rare because it is located in the least snowy region of Korea. However, one can witness light snow if lucky.
- In FY 23 DPW performed 12 snow removal and ice mitigation responses.
  - Camp Walker = 21 Dec 22, 27 Dec 22
  - Camp Henry = 21 Dec 22, 27 Dec 22
  - Camp George = 21 Dec 22, 27 Dec 22
  - Camp Carroll = 21 Dec 22, 27 Dec 22
  - Carroll FOS = 12 times (14, 15, 17, 21, 22, 23 Dec 22), and (7, 15, 16, 27 Jan 23) & (10 Feb 23)
  - Busan = None



## Snow Removal and Ice Control Plan

### Snow Removal

- Heavy Equipment is used as the primary snow removal effort.
- Dump trucks with plows and sand spreader attachments are used for roads, helicopter pads, and parking lots.
- Bobcat tractor with brush attachments are used for helicopter pads and can be utilized for light snow accumulation removal



## Snow Removal and Ice Control Plan

### Ice Control

- Urea is used as the primary ice control product.
- Urea is applied to roads with a sand spreader attachment.
- Urea has been approved by DPW Environmental for ice control.
- The current cost for a 20kg bag of urea is \$20.00. DPW uses approximately 100 bags of urea for each icy road response.
- DPW can apply sand for traction control at icy areas, however sand has no ice melting capabilities.



# Snow Removal and Ice Control Plan

## Purpose and Structure

- AR 420-1-3 Transportation Infrastructure and Dams requires the snow removal and ice control plan, which is approved by the Garrison Commander
- The purpose of this plan is to establish snow removal and ice control responsibilities and procedures for USAG Daegu to include Camps Carroll, Carroll FOS, Camp Walker, Camp Henry, Camp George, and Busan Clusters
- The plan is broken down as follows
  - Trigger Points
  - Responsibilities
  - Area Priorities by Cluster Group
  - Available Resources
  - Points of Contact



# Snow Removal and Ice Control Plan

## Trigger Points

Initial alert is via DPTMS official weather reports from Air Force weather alert and commercial local weather monitoring and DES Police Reports for road conditions.

- Trigger Point 1: DPW OMD executes snow removal and ice control plan based on a projected snow accumulation of 1 inch (3cm)
- Trigger Point 2: DPW OMD will put Roads & Grounds Shop employees on stand-by duty for the evening or weekend when weather reports anticipate snow fall for the USAG Daegu area.
- Trigger Point 3: When an icy road condition is identified to DPW, crews will be dispatched to the area. When precipitation occurs during freezing temperatures icy road conditions are identified by visual observation. DES performs road condition checks in the evening and weekends, and DPW crews perform these checks during normal duty hours.





## Snow Removal and Ice Control Plan

### Responsibilities

- Facility Managers and building occupants are responsible for snow and ice removal from sidewalks adjacent to and/or leading to their buildings and work areas, normally 50 feet away from the facilities.
- Urea, ice melt and snow shovels are available for the units or tenants at the DPW Self Help or DPW maintenance facility.
- DPW is responsible for removing snow and ice based on following priorities
  - Pri 1: Airfield pavements, primary roads and gates, and long steep graded roads
  - Pri 2: Secondary roads
  - Pri 3: Parking lots and public sidewalks



## Snow Removal and Ice Control Plan

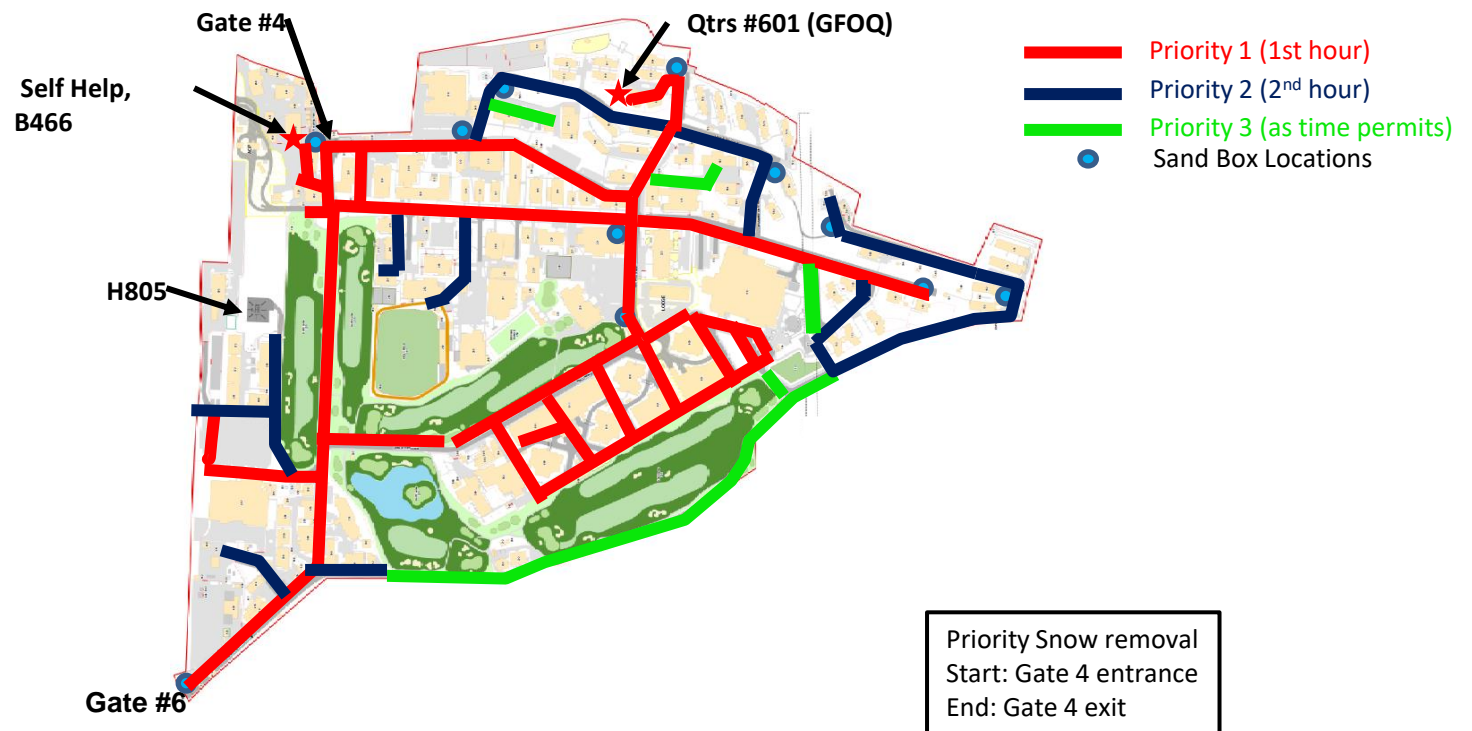
### Daegu Cluster Snow Removal Priorities

<u>Camp</u>	<u>Area</u>
Walker	Gates 4,6 & Primary Roads
Walker	GFOQ Unit 601 and surrounding hill area
Walker	Airfield H805
Henry	Gates 1,2 & Primary Roads
Henry	B1501, 19 <sup>th</sup> ESC HQ
George	Gate 3 and Main Roads

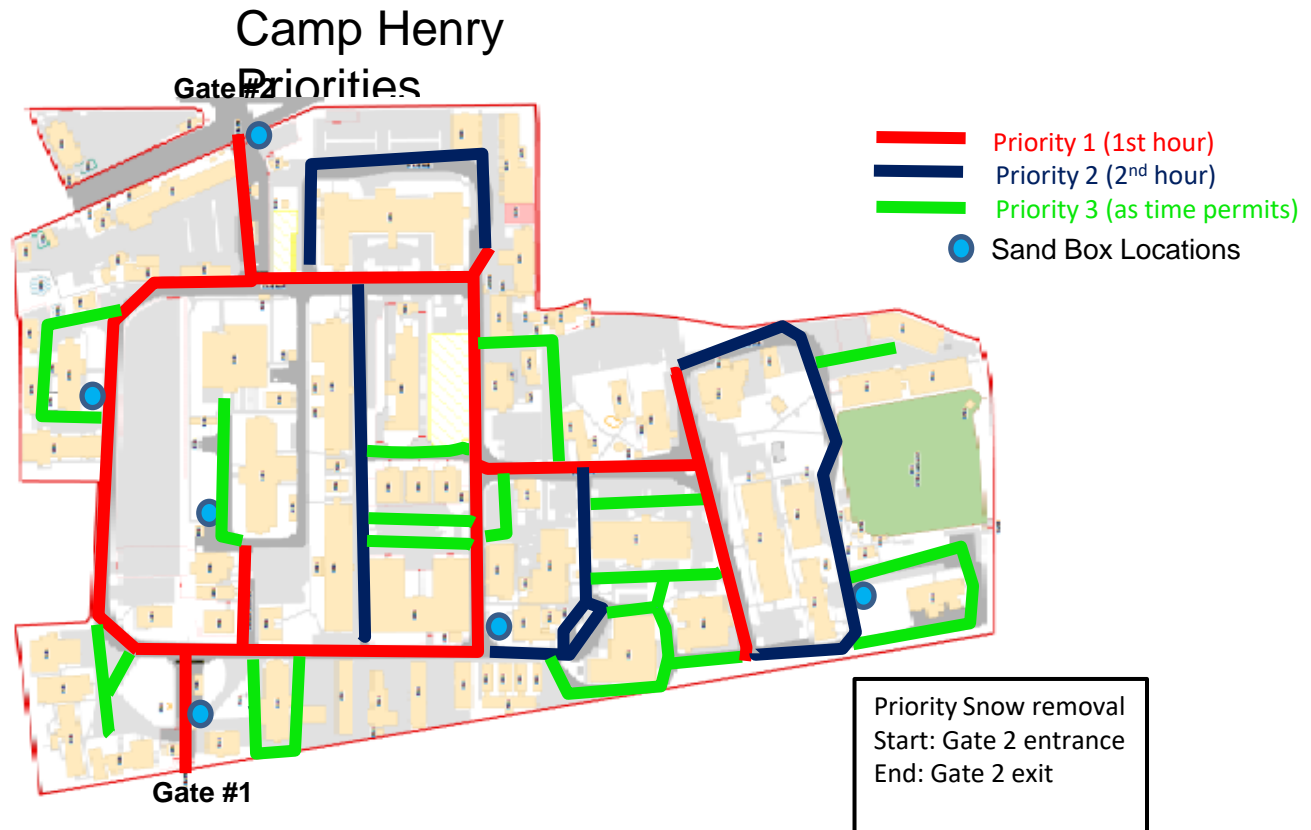


## Snow Removal and Ice Control Plan

### Camp Walker Priorities

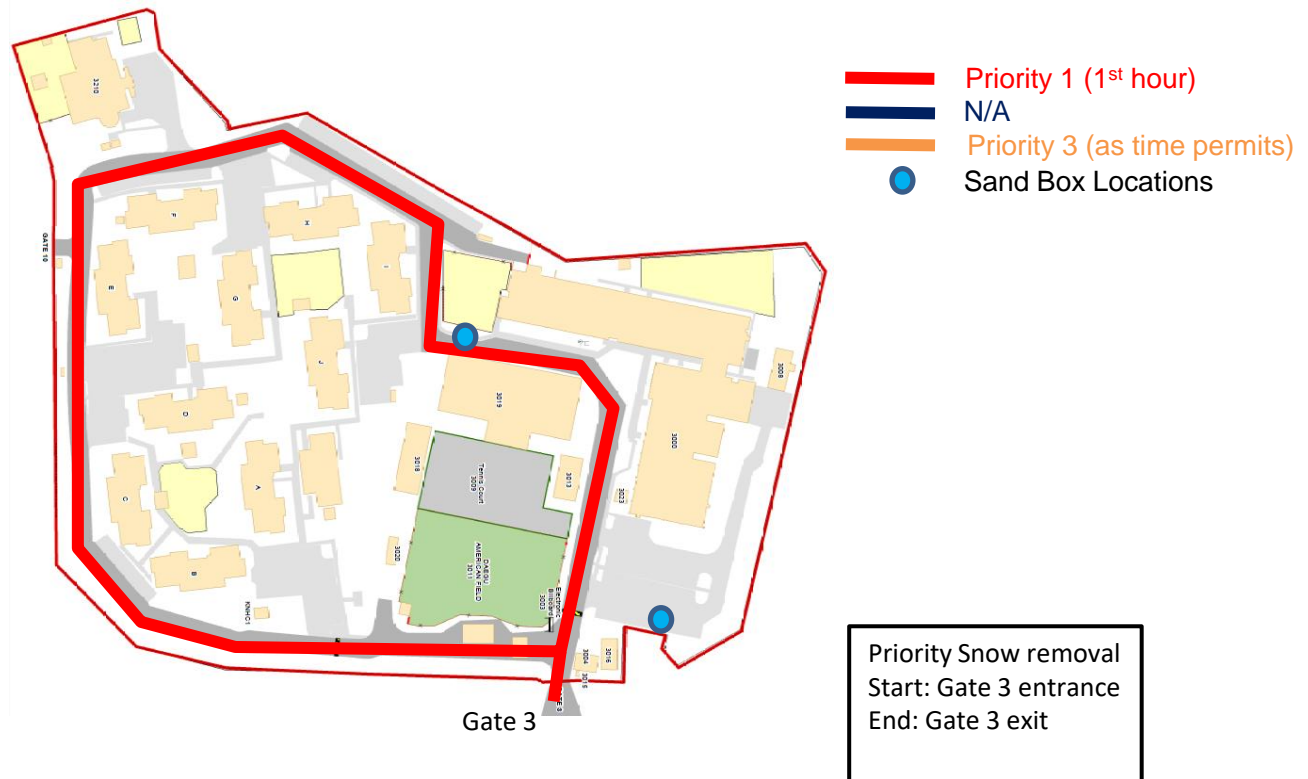


## Snow Removal and Ice Control Plan



## Snow Removal and Ice Control Plan

### Camp George Priorities



## Snow Removal and Ice Control Plan

### Daegu Cluster Snow Removal Vehicles

Available Heavy Equipment for snow removal

- One (1) Dump Truck with attached plow and sand spreader
- One (1) Bobcat Tractor with snow brush attachment
- One (1) Front End Loader



## Snow Removal and Ice Control Plan

### Daegu Cluster Available Materials

DPW stocked materials for Ice control effort

- |                   |          |                      |
|-------------------|----------|----------------------|
| • Sand            | 50 CM    | Camp Walker B640     |
| • Sandbags        | 1,000 ea | Camp Walker B640     |
| • Urea (20kg bag) | 1,500 ea | Camp Walker B640     |
| • Snow Shovels    | 104 ea   | Self Help Store B466 |



## Snow Removal and Ice Control Plan

### Daegu Cluster Points of Contact

#### Points of Contact

James Casey

Office: 763-5321

DPW, OMD, Acting O&M Division Chief

Cell: 010-8582-0265

Cho, Chae Hwan

Office: 763-5326

DPW, OMD, Engineering Technician

Cell: 010-6231-5315

Hong, Hyong Sop

Office: 763-5328

DPW, Road & Ground Foreman

Cell: 010-8449-9554





## Snow Removal and Ice Control Plan

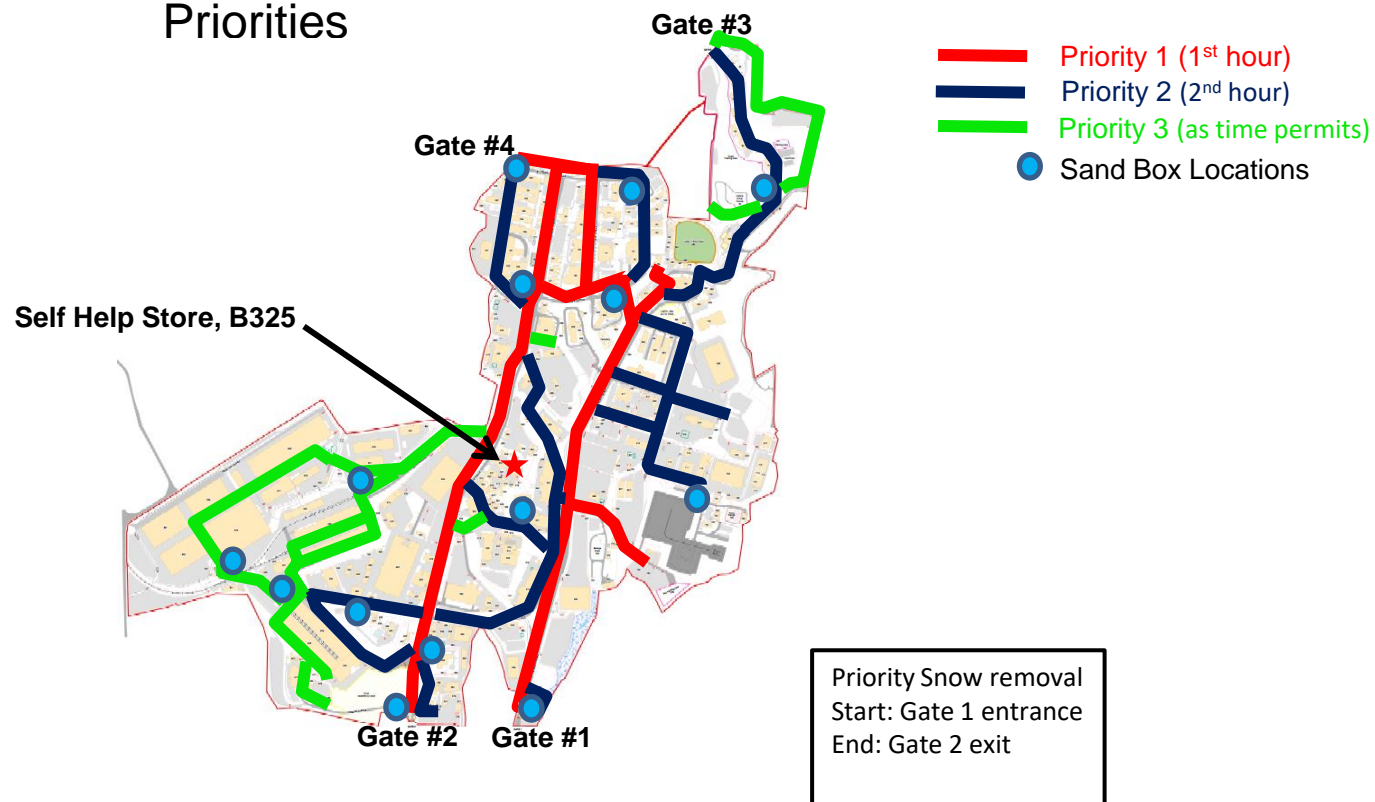
### Camp Carroll Cluster Snow Removal Priorities

<u>Camp</u>	<u>Area</u>
Carroll	Gates 1, 2 & Main Roads
Carroll	B388 HQ, MSC-K
Carroll	Steep Grade Areas B345, B652, B709, B710, B711, B821, B870 & BOQ Hill
Carroll	Airfield H832
Carroll FOS	Primary Roads



## Snow Removal and Ice Control Plan

### Camp Carroll Priorities



## Snow Removal and Ice Control Plan

### Carroll Cluster Outline Areas

Carroll (F.O.S.)

- DPW will dispatch equipment as Priority 1
- Ice melt to support for the F.O.S. will be delivered prior to the winter season

DLA Gimcheon (APO DRMO)

- DLA staff will contact DPW work control center at 763-4824 when requesting snow removal from the site. DPW will dispatch equipment as Priority 3



# Snow Removal and Ice Control Plan

## Carroll Cluster Snow Removal Vehicles

Available Heavy Equipment for snow removal

- Two (2) Dump Trucks with attached plow and sand spreader
- One (1) 1ton Truck with attached plow and sand spreader
- One (1) Front End Loader



## Snow Removal and Ice Control Plan

### Carroll Cluster Available Materials

DPW stocked materials for Ice control effort

- Sand 200 CM Camp Carroll DPW storage yard
- Sandbags 600 ea Camp Carroll DPW storage yard
- Urea (20kg bag) 1,840 ea Camp Carroll DPW storage yard
- Snow Shovels 49 ea Self Help Store B325



## Snow Removal and Ice Control Plan

### Carroll Cluster Points of Contact

#### Points of Contact

James Casey

Office: 763-5321

DPW, OMD, Acting O&M Division Chief

Cell: 010-8582-0265

Kim, Tae Hui

Office: 763-2180

DPW, OMD, Engineering Technician

Cell: 010-9205-6007

Kang, Kum Yong

Office: 763-2193

DPW, Road & Ground Foreman

Cell: 010-6510-4228



## Snow Removal and Ice Control Plan

### Camp Walker & Carroll Airfields

Helicopter Pad Camp Walker H805 & Camp Carroll H832

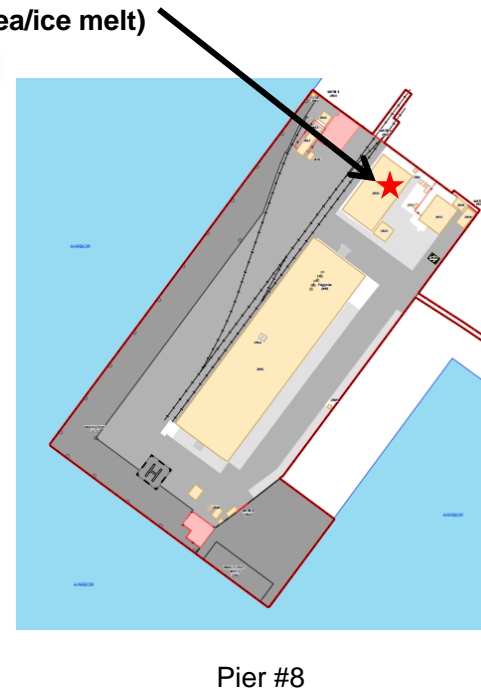
- When the flying mission requirements call for immediate snow and ice removal response Airfield Operations shall notify DPW Service Call at 763-4824. DPW will then respond to the helicopter pad as a priority 1 (emergency) requirement
- When no scheduled flying mission helicopter pads area will be cleared of snow after all priority 1 roads have been cleared



## Snow Removal and Ice Control Plan

### Busan Cluster

DPW B2630 at Pier #8  
(sandbag & urea/ice melt)





## Snow Removal and Ice Control Plan

### Busan Cluster Resources

#### Busan snow and ice control

- Historically Busan does not receive snow accumulations requiring heavy equipment support. If required Camp Walker can support snow removal efforts at Busan
- DPW has a bobcat with brush attachment for light snow removal
- DPW B2630 has 20 snow shovels, 100 sandbags and 100(20kg) bags of urea/ice melt available to issue to units
- MSC-K has 2 street sweepers and Operators at BSF that could be utilized for light snow removal (< 1inch (3cm)
- DPW, Busan will utilize one (1) Bobcat Tractor with snow brush at Pier #8



## Snow Removal and Ice Control Plan

### Busan Cluster Points of Contact

#### Points of Contact

Yun, Chang Pin  
Team Leader  
Office: 763-3065

DPW, OMD, Mnt.

Cell: 010-4503-9045

Chang, Yong Chun  
Team  
Office: 763-3034

DPW, OMD, Maintenance

Cell: 010-5555-2337

Yi, Yun Kil  
Foreman  
Office: 763-3034

MSC-K Motor Pool

Cell: 010-5207-2527

