Spinal Cord Injury/Disorders Design Guide

ISSUE: To resolve current challenges interpreting the graphic diagrams contained in the SCI Design Guide to properly facilitate the design of Revised Acute Care SCI Patient (Litter) Bathroom:

1. Revise Acute Care SCI Patient self-care toilet lavatory.
2. Revise Acute Care SCI Patient (Litter) Bathroom (TLTS1) Reflected Ceiling Plan
3. Amend and revise paper towel and soap dispenser to be wall mounted
4. Revise configuration of toilet backrest and grab bar.
5. Delete grab bar at shower seat Acute and Long Term Care Bathrooms.
6. Extend patient lift rail to be adjacent to shower wall.
7. Include PVA Sketch 003A Backrest Detail.

Current SCI Inpatient facilities under design and construction have encountered numerous conflicts in facilitating SCI Patients’ ease in access to cleaning and drying their hands after toileting. The current SCI toilet-vanity does not clearly indicate the patient’s ergonomic mobility to the self-care vanity including wheelchair nesting about the water closet. The re-design of the patient self-care toilet/vanity identifies the necessity of a “bump-out” to “nest” the commode wheelchair. The patient hoist track configuration creates challenges in transporting and transferring patients to either the showering/transport gurney and hygiene/commode wheelchair. Curtain screening methodology difficult to interpret and the floor drain slope configuration is excessive.

DISCUSSION: Both the Acute Care SCI Patient (Litter) Bathroom as well as the Long Term Care SCI Patient (Litter) Bathroom were reconfigured to address the patient needs regarding both the SCI patient ergonomic and anthropometric challenges required for proper self care while toileting. Both the acute care and long term care environments have salient features
which are common, though the acute care environment has features not provided in the long term care patient bathroom. The designers must be aware that typically SCI patients have a difficult time modulating their body temperatures, particularly when bathing. When patients are toileting, increased air changes are necessary to adequately evacuate odors. Additionally, floor slopes must be positive to drains but not overwhelming as to create excessive slopes which would affect wheelchair maneuvering by the patient. Furthermore, lighting, HVAC supply and return as well as ceiling mounted patient lifts and privacy curtains require coordination to avoid conflicts and interferences.

**REQUIREMENTS:** Refer to attached Sketches SK-01 thru SK-08 dated August 24, 2011.

**CONTACT:** Facilities Standards Service at til@va.gov
Purpose:

The purpose of this study is to resolve current challenges interpreting the graphic diagrams contained in the SCI Design Guide.

Rational:

Current SCI Acute Care Inpatient facilities under design and construction have encountered numerous conflicts in facilitating SCI Patient’s ease in access to cleaning and drying their hands after toileting. The current SCI toilet-vanity as does not clearly indicate the patient’s ergonomic mobility to the self-care vanity including wheelchair nesting about the water closet. This study identifies the necessity of a “bump-out” to “nest” the commode wheelchair in plan view as well as elevations indicating a removable raised toilet seat for patients transfers as well as the reaching distance to soap and towel dispensers, toilet paper, lavatory faucet, emergency nurse call, and toilet flushing from wheelchairs and for patients utilizing a commode wheelchair.

Area of study

All notes and annotations from SCI/D Design Guide have been omitted.

Floor Plan: SCI Toilet-Vanity


SK-01
Key Notes:

1. Water Closet Carrier w/ Carrier Extender
2. Hygiene Wheelchair
3. Toilet Paper Holder
4. S/S Grab Bar
5. Gooseneck Faucet-Infrared Actuated
6. Soap Dispenser-Infrared Actuated
7. Paper Towel Dispenser-Infrared Actuated
8. Solid Surface Countertop w/ Integral Sink
9. Solid Surface Backsplash
10. Solid Surface Skirt
11. S/S Grab Bar component of backrest bracket assembly
12. Metal Stud Partition, Cement Board w/ Ceramic Tile Finish
13. Emergency Nurse Call Cord
14. Toilet Flush Actuator Button
15. Stainless Steel Backrest Bracket

Refer to PVA sketch SKA 003A

Floor Plan: Acute IP SCI Toilet-Vanity

Scale: 1/2" = 1'-0" 24 August 2011
Key Notes:

1. Toilet Tissue Storage “Pocket”
2. Magazine / Lubricant Storage “Pocket”
3. Toilet Paper Holder
4. S/S Grab Bar
5. Gooseneck Faucet-Infrared Actuated
6. Soap Dispenser-Infrared Actuated
7. Paper Towel Dispenser-Infrared Actuated
8. Solid Surface Countertop w/ Integral Sink
9. Solid Surface Backsplash
10. Solid Surface Skirt
11. S/S Grab Bar component of backrest bracket assembly
12. Removable Padded Cushion Backrest
13. Emergency Nurse Call Cord
14. Toilet Flush Actuator Button
15. Stainless Steel Backrest Bracket
16. Tubular Stainless Steel Backrest Frame Refer to PVA sketch SKA 003A

Elevation: Acute IP SCI Toilet-Vanity

Scale: 3/4" = 1'-0"

24 August 2011

SK-03
Key Notes:

1. Toilet Tissue Storage “Pocket”
2. Magazine / Lubricant Storage “Pocket”
3. Toilet Paper Holder
4. S/S Grab Bar
5. Gooseneck Faucet-Infrared Actuated
6. Soap Dispenser-Infrared Actuated
7. Paper Towel Dispenser-Infrared Actuated
8. Solid Surface Countertop w/ Integral Sink
9. Solid Surface Backsplash
10. Solid Surface Skirt
11. Solid Surface “Tower” Supporting Soap and Paper Towel Dispensers
12. Removable Padded Cushion Backrest
13. Emergency Nurse Call Cord
14. Toilet Flush Actuator Button
15. Stainless Steel Backrest Bracket
16. Tubular Stainless Steel Backrest Frame Refer to PVA sketch SKA 003A

Elevation with Wheelchair: Acute IP SCI Toilet-Vanity

Scale: 3/4” = 1’-0”

24 August 2011
Floor Plan: Long Term Care SCI Bathroom

Key Notes:
1. Automatic Sliding Door
2. "In Use" Light Mount Above Door Wire to Bath Light Circuit
3. Automatic Door Control Switch
4. S/S Grab Bar
5. Robe Hook
6. Soap Dish
7. Stainless Steel Shelf
8. Shower Fixture and Mixing Valve
9. Privacy Curtain
10. Caregiver Lavatory
11. Multiple Position Shower Gurney
12. S/S Combination Paper Towel Dispenser-Disposal Container
13. Patient Lift/Transfer Track (Optional)
14. Shower Gurney Maneuvering Zone
15. Patient Transfer & Maneuvering Zone
16. Floor Drain w/ Removable Basket
17. Fold Down S/S Grab Bar
18. "L"-Shaped Phenolic Fold-up Shower Seat

Floor Plan: Long Term Care SCI Bathroom
Scale: 1/2" = 1'-0"
24 August 2011
SK-06
Reflected Ceiling Plan:
Acute IP and Long Term Care SCI Bathrooms

Scale: 1/2" = 1'-0"

24 August 2011

SK-07
PVA Detail:
Acute IP SCI Bathroom

Scale: 1/2" = 1'-0"  24 August 2011

NOTE: 1. SECURE MOUNTING BRACKET TO WALL. PROVIDE OPENINGS AT BOTTOM OF SLEEVE FOR DRAINING.

2. VERTICAL DIMENSION AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH TOILET AND BOWEL CARE-CHAIR REQUIREMENTS.