

NC/SR SERIES ~ Communication-Site-on-Wheels (COW)

Representative ITS Shelter COW Configurations

- » ±125'(38m), ±120'(36m), ±106'(33m), ±89'(27m), ±72'(22m) & ±55'(17m) Self-Supporting & Guyed Tower Heights
- » Fully Automated, Direct Drive Tower Operating System; No Belts, No Chains, No Guy Wires Required
- » ±500 lb/227kg to ±650lb/295kg Standard & Upgraded Tower Load Capacity; 120-220VAC/60-50Hz Configurations
- » Greatest Self-Supporting and Guyed Wind/Payload Capacity of Any Comparable Tower System
- » Custom Drawbar, Gooseneck & 5th Wheel Tow Configurations; Electric, Hydraulic or 2S1M Air Brake Systems
- » 20,000lb/9,070kg to 36,000lb/16,326kg GVWR Capacity; Typical Shelter Size from 8'-16'0"L x 8'0"W x 8'0"H (OD)















Model Series Summary:

NC/SR Series Communication-Site-on-Wheels (COWs) are custom manufactured and accessorized by *ITS* pursuant to individual client specifications. Models include extra heavy-duty drawbar, gooseneck, and 5th wheel style trailer configurations that accommodate a variety of communications equipment shelter sizes, tower systems, power plants and other common and proprietary *ITS* and/or client-installed equipment. A multi-section ~ 21'0"/6.4m or 25'0"/7.6m each, lattice steel telescopic structure is designed to transport horizontally over the shelter and automatically tilt by means of a heavy-duty, chrome plated hydraulic cylinder. The tower system is raised to its full extension utilizing a direct drive, minimum 1HP, totally enclosed fan cooled (TEFC), wash-down rated electric winch motor and gearbox assembly. *Each COW configuration is capable of being deployed, elevated to its full-extended height, and secured by a mechanical tower lock mechanism by one person in under 30 minutes*. For added security and stability during poor weather conditions, excessive loading, long-term deployment, or to minimize structure deflection for critical applications, this *self-supporting* tower may be further protected by the use of an optional guy cable and ground anchor system.

<u>Standard "B" & Upgraded "C" Series Towers</u>: Standard Elevations ~ ±106' (33m), 89' (27m), 72' (22m) & 55' (17m) Custom Heights ~ ±125' (38m) and ±120' (36m)

- Self-Supporting and Guy Capable Steel Tower Structures
- To ±500lb/227kg 650lb/295kg Lift and Tilt Capacity
- Full Automation; Multiple Limit Switch Controls
- From (3) to (6) 21'/6.4m or 25'/7.6m Each Tower Sections
- 1/4" & 5/16" 7x19 Aircraft Quality Galv or Stainless Cables
- Electronic Safety & Motor Protection Features
- Solid State Control Circuitry; Locking NEMA Enclosure
- Min. 1HP TEFC Motor/Gearbox Assembly; Weather Rated
- Hydraulic Tilt Assembly with Integrated Safety Features
- Heavy-Duty Galvanized Tower Base Support Structure

- Direct Drive Telescopic Winch/Motor Assembly ~ No Belts/Chains
- Two (2) to Five (5) Coax/Cable Rings; Min. 15'0"/4.6m Power Cable
- Positive Pull Down and Redundant Tower Cabling Systems
- 120VAC/60Hz and 220VAC/6050Hz Power Configurations Offered
- Extended Tower Locking Mechanism; Tower Transport Locks
- Optional 3-Arm Antenna, Camera and/or Pan/Tilt Mounts
- Optional Multi-level Guy Kit, Anchor and Torque Arm Assemblies
- Optional Lightning Protection and Grounding Packages
- Optional Aviation Obstruction Lighting; Halogen Work Lights
- Power Generation, Climate Controlled Electronics Cabinets & More



NC/SR SERIES ~ Communication-Site-on-Wheels (COW)

Representative ITS Shelter COW Configurations

NC/SR Series - General Trailer Description: 20,000lb/9,070kg to 36,000lb/16,326kg GVWR Capacity

 Gross Vehicle Wt. Rating (GWR): Typical from 20,000 lb to 36,000 lb capacity, FET applies at capacities 26,000 lbs and greater Gross Axle Wt. Rating (GAWR): Typical from 10,000 lb to 12,000 lb capacity each axle Overall Transport Length: From ±36'0" to 49'0" Overall Transport Width: ±8'0" Overall Transport Height: Typical to ±3'7" rear/upper platform; ±25" forward/lower shelter platform and drawbar Pelatform Height: Typical to ±3'7" rear/upper platform; ±25" forward/lower shelter platform and drawbar Deployed Footprint: Typical to ±3'7" rear/upper platform; ±25" forward/lower shelter platform and drawbar Deployed Footprint: Typical from ±22'6" wide to ±54'0" long Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels – FMVSS121 Tires: Typical dual LT235/8SR16 LR E or G 215/7SR17.5 LR H Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical length ±14'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" to ±18'0" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5" wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±16" pin setting to accommodate single and tandem axle tractors; SAE 7-pin fillitary vehicle connector Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks wi	- Gross Vohicle Wt. Pating (GV/V	VP): Typical from 20,000 lb to 26,000 lb capacity; EET applies at capacities 26,000 lbs and greater
Overall Transport Legth: From ±36'0" to 49'0" Overall Transport Width: ±8'0" Overall Transport Height: Typical to 13'0" Platform Height: Typical to ±37" rear/upper platform; ±25" forward/lower shelter platform and drawbar Deployed Footprint: Typical from ±22'6" wide to ±54'0" long Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 25'1M ABS air on all wheels − FMVSS121 *Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H *Wheels: Typical 16" x 6'x 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath *Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" *Operating Platform: Diamond steel plate, 1/8", painted or rubber coated beneath shelter; typical length ±14'6" − 17'6" *Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5" wheel sleeve; SAE 2" king pin with typical swing clearance to ±52' and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector *Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks *Stabilizing Outriggers: Four (4) 1+soud) b Istatic/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms *Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks *Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5 th wheel platform *Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package *Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of ea	- -	
 Overall Transport Width: ±80° Overall Transport Height: Typical to 13'0° Platform Height: Typical to ±37" rear/upper platform; ±25" forward/lower shelter platform and drawbar Deployed Footprint: Typical from ±22'6" wide to ±54'0" long Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels − FMVSS121 Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" − 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5" wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashin		
 Overall Transport Height: Typical to 13'0" Platform Height: Typical to ± 37" rear/upper platform; ±25" forward/lower shelter platform and drawbar Deployed Footprint: Typical from ±22'6" wide to ±54'0" long Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels – FMVSS121 Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" – 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE Z" king pin with typical sysing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Four		-
 Platform Height: Typical to ± 37" rear/upper platform; ±25" forward/lower shelter platform and drawbar Deployed Footprint: Typical from ±226" wide to ±54'0" long Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels − FMVSS121 • Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H • Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath • Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" • Operating Platform: Diamond steel plate, 1/8", painted or rubber coated beneath shelter; typical length ±14'6" − 17'6" • Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector • Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks • Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension • Outrigger Leveling Jacks: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension • Outrigger Leveling Jacks: Single or tandem 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms • Landing Gear: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform • Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package • Perimeter L	<u> </u>	_
 Deployed Footprint: Typical from ±22'6" wide to ±54'0" long Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels – FMVSS121 Tires: Typical dual LT235/8SR16 LR E or G 215/75R17.5 LR H Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" − 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5" wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hocks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Ring	<u> </u>	*1
 Axles: Tandem axles, typical 10,000-12,000lb capacity each; EZ-lube or nominal oil bath, adjustable Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels – FMVSS121 Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical lengths ±14'6" − 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5" wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Wheel Chocks/Cones: Set o		
 Brake System: Electric with break-away devise, Hydraulic/Surge or 2S1M ABS air on all wheels − FMVSS121 Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" − 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Single or tandem 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" ring		;; — — — — — — — — — — — — — — — — — —
 • Tires: Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H • Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath • Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" • Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical lengths ±14'6" − 17'6" • Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector • Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks • Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension • Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms • Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks • Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform • Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package • Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger • Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard • Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps	• Axles:	
 Wheels: Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" − 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple pairs of lugs, perimeter channel mounted Perimete	Brake System:	
 Shelter Platform: Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0" Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" – 17'6" Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: Multiple pairs of lugs, perimeter channel mounted Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT	• Tires:	Typical dual LT235/85R16 LR E or G 215/75R17.5 LR H
• Operating Platform: Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" – 17'6" • Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector • Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks • Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension • Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms • Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks • Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform • Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package • Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger • Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard • Ground Rod Storage Tube: Multiple pairs of lugs, perimeter channel mounted • Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted • Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones • Reflectors/Notices: Set of DOT compliant wheel chocks and marker resistant rubberized top coat on shelter	Wheels:	Typical 16" x 6k 8-hole dual to 17.5 x 6.7HC, 10-hole disc/hubs stud piloted, oil bath
Tow Configuration Drawbar with 2-5/16" heavy-duty ball coupler or pintle; gooseneck with 2-5/16" ball coupler or inverted 5th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: CC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Ground Rod Storage Tube: Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	Shelter Platform:	Smooth steel plate, 1/8", painted or rubber coated beneath shelter; typical lengths from ±8'6" to ±18'0"
inverted 5 th wheel sleeve; SAE 2" king pin with typical swing clearance to ±82" and ±18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector Safety Chains: 5/16" or 3/8" P-70 safety chains with back latches/hooks Stabilizing Outriggers: Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5 th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: //TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	Operating Platform:	Diamond steel plate, 1/8", painted or rubber coated operating platform; typical length ±14'6" – 17'6"
• Stabilizing Outriggers: • Outrigger Leveling Jacks: • Outrigger Leveling Jacks: • Courrigger Leveling Jacks: • Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks • Spare Tire & Carrier: • Full-sized spare tire secured beneath trailer structure or gooseneck/5 th wheel platform • Lights & Wiring: • Courrigger Leveling Jacks Wiring: • Courrigger Leveling Jacks Indicate Jacks: • Perimeter Lashing Rings: • Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger • Leveling Jack Mounts: • Galvanized jacks stands, deck mounted with lanyard • Ground Rod Storage Tube: • 8'0" ground rod storage tube with removable end caps • Perimeter Grounding Lugs: • Multiple pairs of lugs, perimeter channel mounted • Perimeter Bubble Levels: • Multiple levels, perimeter channel mounted • Wheel Chocks/Cones: • Set of DOT compliant wheel chocks and marker cones • Reflectors/Notices: • Set of DOT compliant reflectors, warning and informational decals • Trailer Finish: • ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	-	inverted 5 th wheel sleeve; SAE 2" king pin with typical swing clearance to <u>+</u> 82" and <u>+</u> 18" pin setting to accommodate single and tandem axle tractors; SAE 7-pin or 12-pin Military vehicle connector
 Outrigger Leveling Jacks: Four (4) 15,000 lb static/12,000 lb lift capacity each, outrigger stabilizing jacks with minimum 14"x14" galvanized steel sand and marsh platforms Landing Gear: Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5th wheel platform Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Safety Chains:	5/16" or 3/8" P-70 safety chains with back latches/hooks
• Landing Gear: • Landing Gear: • Single or tandem 15,000 lb static/12,000 lb lift capacity each, auto-retract, drop leg or 2-speed with adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks • Spare Tire & Carrier: • Full-sized spare tire secured beneath trailer structure or gooseneck/5 th wheel platform • Lights & Wiring: • ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package • Perimeter Lashing Rings: • Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger • Leveling Jack Mounts: • Galvanized jacks stands, deck mounted with lanyard • Ground Rod Storage Tube: • 8'0" ground rod storage tube with removable end caps • Perimeter Grounding Lugs: • Multiple pairs of lugs, perimeter channel mounted • Perimeter Bubble Levels: • Multiple levels, perimeter channel mounted • Wheel Chocks/Cones: • Set of DOT compliant wheel chocks and marker cones • Reflectors/Notices: • Set of DOT compliant reflectors, warning and informational decals • Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter		Four (4) heavy-duty steel tube outriggers, retractable and locking; ±6'7" front to ±10'0" rear extension
adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks • Spare Tire & Carrier: Full-sized spare tire secured beneath trailer structure or gooseneck/5 th wheel platform • Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package • Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger • Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard • Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps • Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted • Perimeter Bubble Levels: Multiple levels, perimeter channel mounted • Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones • Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals • Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	Outrigger Leveling Jacks:	
 Lights & Wiring: ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: /TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Landing Gear:	adjustable height; minimum 14"x14" galvanized steel sand and marsh platforms; optional electric or hydraulic auto-stabilizing trailer jacks
 Perimeter Lashing Rings: Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Spare Tire & Carrier:	Full-sized spare tire secured beneath trailer structure or gooseneck/5 th wheel platform
 Leveling Jack Mounts: Galvanized jacks stands, deck mounted with lanyard Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: /TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Lights & Wiring:	ICC/DOT sealed beam lights, LED, dual stop and turn lights, arctic/desert modular wiring package
 Ground Rod Storage Tube: 8'0" ground rod storage tube with removable end caps Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: /TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Perimeter Lashing Rings:	Typical 2 to 4 pair perimeter lashing "D" rings; additional at ends of each outrigger
 Perimeter Grounding Lugs: Multiple pairs of lugs, perimeter channel mounted Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: //TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Leveling Jack Mounts:	Galvanized jacks stands, deck mounted with lanyard
 Perimeter Bubble Levels: Multiple levels, perimeter channel mounted Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: /TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Ground Rod Storage Tube:	8'0" ground rod storage tube with removable end caps
 Wheel Chocks/Cones: Set of DOT compliant wheel chocks and marker cones Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals Trailer Finish: /TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter 	Perimeter Grounding Lugs:	Multiple pairs of lugs, perimeter channel mounted
• Reflectors/Notices: Set of DOT compliant reflectors, warning and informational decals • Trailer Finish: /TS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	Perimeter Bubble Levels:	Multiple levels, perimeter channel mounted
• Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	Wheel Chocks/Cones:	Set of DOT compliant wheel chocks and marker cones
• Trailer Finish: ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter	Reflectors/Notices:	Set of DOT compliant reflectors, warning and informational decals
	Trailer Finish:	ITS industrial, multi-part black paint with impact and weather resistant rubberized top coat on shelter













© 2013 Integrated Tower Systems. All Rights Reserved. R3-2013



NC/SR SERIES ~ Communication-Site-on-Wheels (COW)

Representative ITS Shelter COW Configurations

NC/SR Series - General Shelter Description: Standard Sizes ~ 8', 12', 14' & 16'L x 8'0"W x 8'0"H (OD)

Typical Shelter	A variety of custom shelter configurations range in size from 8'0" to16'0" Long x 8'0" Wide x 8'0" High (Outside
Dimensions	Dimensions). Shelters may be configured per client specifications, DOT and environmental requirements
Shelter Weight	Standard from 2,300 lbs to 5,500 lbs prior to installation of ITS and/or customer equipment
Standard Shelter	Reinforced, heavy-duty perimeter steel channel skid and cross members sized according to floor load
Skid	requirement; minimum 250 lbs/sq. ft. All welded construction. Skid to be powder coat painted after fabrication. All
Construction	steel to be A-36 grade
Standard Shelter	4" thick floor panels – cam lock mechanism for panel assembly, high density expanded polystyrene foam
Floor	laminated between exterior sheets of 26 gauge galvanized steel and interior sheets of 20 gauge galvanized steel,
Construction	1" fire treated plywood reinforcement, minimum 3.5 lbs weight per square foot of panel surface, minimum R-28
	insulation factor, exterior white or tan stucco embossed finish, interior smooth galvanized, commercial grade floor
	tile with vinyl cove base
Standard Shelter	4" thick wall and ceiling panels – cam lock mechanism for panel assembly, high density expanded polystyrene
Wall	foam laminated between sheets of 26 gauge galvanized steel, ½" fire treated plywood wall reinforcement,
Construction	minimum 2.4 lbs weight per square foot of panel surface, minimum R-18 insulation factor, exterior white or tan
	stucco embossed finish ~ multiple 4"W powder coated shelter-to-skid wind shears; rating to 135 mph
Standard Shelter	Rain roof with thermoplastic single ply PVC roof system, 6"-8" termination bar and fasteners
Roof Treatment	
Standard Shelter	Typical 3'0" x 6'0" or double 4'0" x 6'0", insulated, 20 gauge steel constructed, white or tan, 20 or 16 gauge steel
Door	frame, drip cap, threshold, weather seal, stainless steel NRP hinges, door lockset, lever-type assembly, deadbolt,
Construction	latch guard, chrome plate grab handle
Standard Shelter	Shelter wiring is installed in surface mounted conduit. Interior devises such as switches and receptacles are
Electrical	installed in surface mounted boxes. All circuits are breaker protected. A service entrance is provided on the
	exterior of the shelter for connecting to main electrical power supply. Additional entrances are provided for
	telephone and generator hook-ups. All electrical is installed in accordance with the National Electric Code
Air Conditioning	1 or 2 air conditioners; typical 2-ton (24,000 BTU) or 3-ton (36,000 BTU) capacity each, typical 3-5kW heat, wall
and Heating	mounted unit(s); tandem AC systems have lead lag controller. Standard configuration to include: thermostat,
Systems	supply grill, return grill, low ambient fan control, adjustable time delay relay, low pressure by-pass, full length
	mounting brackets, rain hood, dry contact for remote on lockout, high and low pressure switches with lockout
Dantial List of	relay, 2" pleated filter, and internal disconnect ~ 230/208/1/60Hz
Partial List of	Surface mounted sodium exterior lights with photocell
Shelter Installed Accessories	• Ground bar kit, ½" x 4" x 12"-20", exterior and/or interior mounted
Accessories	Halo ground kit with accessories, #2 solid tinned copper drops
	Wave guide entry ~ 2 to 8 ports
	Exterior shelter receptacle(s), 120V, GFI
	• 100-200 Amp/240/120V/60Hz/1PH service panel, 20-42 breaker spaces and disconnect
	2" LB connectors for incoming power, optional generator
	Shelter roof access ladder
	Multiple duplex and/or four-plex receptacles, 20 amps each
	Telco board, 2'x4' with FRP on one side
	Alarm terminal strip with open door, high/low temperature, smoke/fire alarm
	Emergency lighting with battery backup
	• Fluorescent lights, 2' – 4' each with RFI filter and cover or wire guard
	Detachable shelter entry steps
	Automatic or manual transfer switch
	UPS and surge suppression systems, and much more
	The Canada Sarge Suppression Systems, and motion









© 2013 Integrated Tower Systems. All Rights Reserved. R3-2013

You may use the content of this document/website solely for non-commercial purposes within your organization provided you retain all copyright and other proprietary notices contained in the content and you do not modify the content. You may not use the content for commercial purposes nor may you copy or redistribute the content to third parties. Any product, processes or technology described in the content may be subject to other intellectual property rights reserved by us and are not licensed to any person hereby.