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General Engineering Contractor License No. 626729

PS1200 Placer Spreader Specification
TB PS12004T 0915

PS1200 / 4 Track
Page 1 of 8

G&Z Drawing No. G-28896_0

TYPE: Hydraulic Four-Track Placer Spreader for Sidefeeding and Spreading
Base Courses and Concrete.

APPLICATION: MAINLINE HIGHWAY PAVING
COUNTY ROADS AND OTHER SECONDARY ROADS
CONCRETE OVERLAY AND INLAYS
RAMPS AND INTERCHANGE LANES
AIRPORT RUNWAYS, TAXIWAYS AND APRONS

GENERAL FEATURES (all dimensions approximate)

Maximum Spreading Width..... 41' 0" (12500 mm)

Minimum Spreading Width (nominal)..... 18' 0" (5486 mm)¹

Spreading Thickness -6" (-150mm) thru 18" (457 mm)

Maximum Depth of Inlay..... -6" (-150mm)

Minimum Overall Width^{2 3}

Paving Width plus 7'-8" (2714 mm) with sensors and support arms

Required Track Path..... 2'-3 3/4" (705 mm)⁴

Operating Height 16'-4 1/2" (4990 mm) plus the spreading thickness.

Overall Operating Length... 25'-1 1/2" (7659 mm) without sensors and support arms

Operating Weight⁵

Basic Machine nom. 24'-0" (7500 mm)

Without any Optional Equipment.....92,500 Lbs. (41,957 kg) (Estimated)

¹ Widths down to 12' (3658mm) are possible with more trackline required and special offset strike-off support arms

² With inside of grouser pad 11½" (292 mm) away from edge of pavement and the grade wire set 4'-0" (1219 mm) from edge of pavement.

³ With conveyor belt retracted under frame.

⁴ With inside of grouser pad 11½" (292 mm) away from edge of pavement.

⁵ Approximate weight without fuel or water in tanks.

POWER UNIT

Diesel engine driven, base mounted, complete with steel frame enclosure with fiberglass wrapped plywood “gull wing” hinge up doors and radiator cowling, hydraulic reservoir, filters, and batteries.

Engine:

CAT® C7 ACERT Diesel Engine, USA EPA Tier 3 / European Stage IIIA

Rating: Intermittent Horsepower @ 2100 RPM, 275 bhp/205 kW⁶

24V Starting System.

24V Charging System.

50 Amp Alternator.

Air Cleaner: Two stage – Donacclone type with replaceable dry element. Air Cleaner has quick connection to enclosure for ease of removal.

Muffler: Special low decibel “Cowl Silencer” type with heat insulation wrapping.

Heavy Duty Radiator: Belt driven pusher fan to exhaust heat and noise from the enclosure. Radiator grill arranged with special noise insulating foam baffles.

Batteries: Two CAT® 12 Volt 175 amp-hr batteries.

Engine Safety: Low Oil Pressure and High Water Temperature Shutdown Switch.

Engine Service Capacities (approximate):

Fuel Tank..... 150.0 U.S. Gallons (567 L) with lockable filler breather cap, for 12 hours of uninterrupted operation. Fuel tank mounted off Power Unit Module.

Coolant System 3.51 U.S. Gallons (13.3 L) engine only

Engine Oil 8.01 U.S. Gallons (31 L) lube refill

Engine Enclosure:

Noise and heat suppression including vibration isolation, special “Cowl Silencer” muffler design, sandwiched fiberglass enclosure construction and special radiator / heat exchanger to evacuate heat from the enclosure have been incorporated in the PS1200 power unit enclosure design. For added noise suppression and operator comfort, the engine and pump drive box is vibration isolated from the power unit frame and operator platform. The entire power unit module is vibration isolated from the main tractor frame. With the low profile power unit enclosure design, the operator has an excellent view of all four corners of the machine.

HYDRAULIC SYSTEM

All hydraulic pumps are flange mounted to an engine flywheel mounted, four outlet pump drive gearbox.

Circuits:

Conveyor Belt: One EDC controlled variable volume pump supplies power to the dual hydraulic motors powering the head pulley of the conveyor.

⁶ Engine performance is corrected to inlet air standard conditions of 29.31 IN HG (99 KPA) dry barometer and 77 deg F (25 deg C) temperature. These values correspond to the standard atmospheric pressure and temperature as shown in SAEJ1995. Performance measured using a standard fuel with fuel gravity of 35 degrees API having a lower heating value of 18,390 BTU/LB (42,780 KJ/KG) when used at 84.2 DEG F (29 DEG C) where the density is 7.001 LB/USGAL (838.9 G/L).

Tracks: Two electronic displacement controlled (EDC) pressure compensated pumps supply power independently to each side of the machine. Each track is supplied with independent power by means of a gear-type flow divider.

Spreader Plow Winch - One EDC controlled variable volume pump supplies power to spreader plow winch motor.

Auxiliary Open Loop Pump (High Flow) - One pressure compensated pump supplies conveyor retract / extension cylinder circuit.

Auxiliary Open Loop Pump (Low Flow) - One pressure compensated pump supplies individual circuits through hand valves, solenoid actuated directional control valves with flow controls and servo actuated proportional valves (optional) for precision speed control of all cylinders.

Hydraulic Oil Filtration:

All filtered circuits pass through 10 micron absolute filtration.

Hydraulic Reservoir:

Approximately 190 U.S. Gallons (718 L) capacity with low oil level alarm and shutdown, oil level and temperature gauge, lockable filler breather cap.

Hydraulic Oil Cooler:

Integral with engine radiator and charge air cooler core.

MAIN FRAME STRUCTURE/POWER UNIT MODULE

Deep section, fabricated tube type construction of the single telescopic main frame with integral conveyor track (patented) allows spreading widths from nominal 18'-0" (5486 mm) ⁷ to 25'-0" (7620 mm). With the addition of optional bolt-in beam extensions on the telescopic side of the tractor frame, the main frame can be extended out to 41'-0" (12500mm). This telescopic feature allows nominal 7'-0" (2133 mm) of telescopic ability. The tractor frame is extended or retracted by manually rotating the crawler tracks 90° and by using the crawler tracks to walk the main frame extensions in and out. A telescopic hose / cable tray is provided from 18' to 29' (5486 to 8839mm) to eliminate the need to connect / disconnect hoses. At widths wider than 29' (8839mm), telescopic hose tray and hose extensions need to be added.

The main frame (tractor) structure, which includes the telescopic frame, also supports the power unit module with visibility in mind. A "non-slip" expanded metal work platform deck with hand railing is provided around the power unit module on three sides. The work platform around the power unit is accessed opposite the belt side of the machine from the ground via a retractable ladder.

STRIKE-OFF / INTEGRAL SPREADER PLOW

The strike-off with telescopic support columns is secured to the tractor frame by means of special clamp-on supports. The strike-off height has 24" (610mm) of vertical hydraulic adjustment. The strike-off terminals are nom. 3'-0" (914mm) wide but are 3" (75mm) narrower than the paving width per side to make room for the slipform sideforms. The strike-off with is sectionalized to your ordered requirements along with the following components sectionalized to match:

⁷ Narrower spreading widths are possible with the tractor staying at its minimum width and the strike-off width being reduced. Check with the factory.

- Spreader plow track

Also included among the strike-off is:

- Telescopic guillotine sideforms with hydraulic telescopic range of 0-18" (0-457 mm) complete with wing extensions, hydraulic cylinders and controls with **wing extensions (quick interchangeable)** to contain edges of concrete and keep concrete out of the tracks.
- Scales are provided on each telescopic support column so the operator can ensure that the strike-off is at the desired height.
- Hand valve supports for strike-off / guillotine sideforms for ease of access which swing in for transport.

The strike-off and spreader plow track can be mounted to either side of the tractor without the need of a crane to allow for receiving concrete from either side of the grade. **The wing extensions need to be switched from side to side.**

CROWNING CAPABILITY (Optional)

The Strike-off has the ability to crown at the centerline or off centerline with the optional hydraulically powered 6'-0" or 2000 mm crowning section for up to a maximum of 4" (101 mm) crown height. The strike-off crown section includes a scale and hydraulic controls.

SPREADER PLOW

The Spreader Plow Track is mounted off the strike-off support arms (and secured to the tractor frame) with plow cart and hydraulic motor driven winch with hose reel. The hydraulic winch and hose reel are mounted to the terminal end of the strike-off and stay with the spreader car track and strike-off are a single module (patented). Concrete spreader plow track sectionalized to match the strike-off. Plow blade hydraulically raises/lowers. The operator remotely controls plow direction, speed and blade height with a proportional electronic joystick located on the operator console. For transport the strike-off is repositioned directly against the machine frame without the need of a crane to reduce machine transport width.

CONVEYOR ASSEMBLY

Receiving Conveyor and Skip with 64" (1626mm)⁸ wide laced belt complete, roller supported with hydraulic height adjustment columns⁹ on the receiving / skip end and dual hydraulic motor drive in conveyor head pulley – one motor on each side. Crowned rubber lagged head pulley with ceramic studs¹⁰ equipped with urethane concrete wiper. Mechanical take-up provided on tail pulley. Closely spaced CEMA E carrier rollers (lifetime sealed and lubricated) used to support belt in skip. Speed range variable (forward and reverse) 0-600 fpm. The conveyor also includes easily removable urethane skirting on three sides of the skip, urethane skirting from the skip to and including a concrete guard for the head pulley.

The conveyor with skip **rolls in** approx. 7 seconds while still running and with a load on the belt (spreading at the same time) to allow trucks to pass. The conveyor **rolls out** in approximately the same time. Skip travel in/out is controlled by a proportional electronic joystick on the operator's console and is powered by a double hydraulic cylinder circuit through a cable system. As an option, the skip can be provided with a hinge (patented) that allows the skip to be hydraulically hinged up or down (within a limited range) to accommodate an uneven haul road without adversely effecting belt tension (patented). Bolster mounted flashing light alarm provided to alert personnel before belt rolls in or out.

⁸ The actual width of belt exposed between the skirting is 60" (1524mm).

⁹ 32" (813mm) vertical hydraulic adjustment remotely controlled by operator at control box.

¹⁰ This special head pulley is suppose to provide 50% more grip to allow reduced belt tension and significantly lower likelihood of slippage when the belt is overloaded.

The length of the conveyor hopper when fully extended beyond the 4' (1208mm) wire location (from edge of pavement) to end of skip hopper is 11'-10" (3608mm) and the skip height is 29 5/8" (753mm) high in its lowest position.

ELECTRICAL SYSTEM/OPERATOR CONTROLS

24V DC electrical controls contained in handrail mounted operator console (moveable) including power switch with indicator light with lockable cover. All machine control functions are operated through digital network controllers provided for the machine steering and elevation functions. Controls are self-diagnostic for ease of trouble shooting. Controls allow operator to monitor and remotely control all machine functions.

Instrumentation:

All located on Power Unit Enclosure behind operator.

Engine function is electronically monitored including:

- Oil Pressure
- Water Temperature
- Charging System Voltage
- Tachometer
- Hour meter
- Starter Switch
- Remote Idle switch

Hydraulic System Monitors:

- Propulsion System Pressure - Right Hand side
- Propulsion System Pressure - Left Hand side
- Winch System Pressure
- Open Loop (High Flow) Pump System Pressure
- Auxiliary Open Loop (Low Flow) Pump System Pressure
- Conveyor System Pressure

Emergency Stop Buttons:

All four corners of the machine are provided with a red mushroom-head emergency stop button with magnetic base.

CRAWLER TRACK DRIVE SYSTEM – FOUR TRACK

Four crawler tracks with fenders nominal 16" (406 mm) wide triple grouser pads with SALT¹¹ chain links x 5'-6" (1676 mm) long center to center. Crawlers are hydrostatically driven through high reduction, planetary gearboxes with "in the planetary" hydraulic motor drives. A gear type flow dividers are used to insure power is delivered equally to each track on a side. Track components are D-3 size with grease gun type, spring loaded front idler assembly. Both forward and reverse have infinitely variable speed range:

Working speed:	Approximately 0 – 23 fpm (0 – 7.01 Mpm)
Travel speed:	Approximately 0 – 95 fpm (0 – 28.96 Mpm)

¹¹ Sealed and lubricated track chain (SALT).

BOLSTERS

Swing / Pivot-type bolster (patented) is provided to allow clearance of the concrete conveyor between the tracks. The bolsters swing outboard for transport to reduce the transport width. Bolsters are held in position with a pin connection. Tracks can have a pivot connection at the track yoke allowing the track to be rotated 90 degrees to power the telescopic tractor frame or at an angle for counter-rotation.¹² The bolsters are also arranged to allow the crawler tracks to be swung inside edge of pavement for crossing narrow bridges.

ELEVATION CONTROL SYSTEM

Four lift cylinders – nominal 39" (1000 mm) stroke. A jacking column (female) is provided with a large cross section male jacking column steadment (square tube) which is yoke connected to each crawler track. Male steadments are provided with hard wear plate on all four sides then the tube is machine ground square. The female jacking column is provided with replaceable and precision machined bronze wear plates. The combination of the two prevents any galling / sticking of the jacking columns.

Four elevation sensors, electronic, non-contact type, temperature stable and proportional, automatically control the machine to grade. Manual override of all four corners of the machine is also provided when this option is elected. Elevation sensed off two preset grade wires, one located on each side of the machine. Sensor support arms, with graduated scale adjustment, are arranged to support the sensor in a stable plane parallel with the bottom of the strike-off when in the non-crowned configuration. Arms are arranged for grade wires located from 3'-0" to 5'-0" (914 to 1524 mm) from edge of pavement. Sensor arm extensions can be furnished as an option.

Off-String Alarm System is provided to sound an alarm when a sensor wand leaves the wire or moves too far from a normal position. Leveling and propulsion systems are also shut down in this situation to help minimize grade deviation.

STEERING SYSTEM

The machine can be manually or automatically steered by varying the speed of the tracks on one side of the machine in relationship to the other.¹³ One side of the machine may be operated independently from the other allowing the paver operator tremendous flexibility for maneuvering in tight confines including counter rotation capability.

Two steering sensors mounted on sensor support brackets with graduated scale adjustment steer the machine in relationship to one of the grade wires. One sensor is located at the front track for forward steering and one at the rear for backing up. The steering sensors are electronic, no contact type, temperature stable and proportional.

¹² As an option, the crawler tracks can be provided with hydraulic motor driven rotary actuators “**AccuSteer**” to allow 90 degree steering mode. This option also allow counter-rotation and other pre-programmed steering modes. In order to use 90 degree steering mode or counter rotation mode, the strike-off may need to be raised up and tractor raised so the crawler tracks clear the strike-off OR the strike-off can be retracted to the rear of the tractor frame.

¹³ With the rotary actuator option, the machine is capable of both proportional speed change per side and pivot steering along with a wide variety of pre-programmed steering modes such as coordinated steering, crab steering, etc.

OPTIONAL EQUIPMENT

- Supply an operator platform on the bolster on the skip side of the tractor to enhance operator visibility of all machine functions. Operator platform with hand railing is accessible from the power unit work platform by means of a telescopic access walkway with hand railing and is accessible from ground level by removable ladder.
- Bolt-on crowd plates at each end of strike-off to push spread material edges to help keep them from collapsing.
- Supply Guillotine sideforms with hydraulic open and close to allow backing up over the previously poured slab and to allow increased width between the sideforms on the fly in case over-width rebar is encountered.
- Supply Fine Width adjustment on the Strike-off Frame Terminal Ends to allow fine adjustment of spreading width and ease of handling unusual spreading widths.
- Supply hinge in conveyor frame between Skip and Incline section to allow the angle of the skip to be hydraulically adjusted up or down (within a limited range) to accommodate an uneven haul road **without** adversely effecting belt tension (patented).
- Water System with 200 Gallon (757 L) Poly Water Reservoir with support mounts on front jacking column complete with 24VDC diaphragm water pump and plumbing.
- High-Pressure Water Sprayer, hydraulic motor driven for concrete clean up including spray wand and hose reel.
- Bolt-on track grousers with vulcanized urethane pads.
- Supply “in the planetary” bent axis hydraulic piston motor drives in lieu of standard bent axis drives.
- Supply locking pin between Jacking Column male steadment yokes and crawler track frame to prevent crawler track from pivoting when bolster is disconnected from tractor frame.
- Supply heavy duty 12” (305mm) square male steadments in lieu of standard male steadments provided with hard wear plate on all four sides then the tube is ground square. The female jacking column is provided with replaceable and precision machined bronze wear plates. The combination of the two prevents any risk of galling / sticking of the jacking columns and allows the PS1200 to be used on thick slabs and with 90 degree steering option.
- G&Z Self Level (Anti-Twist) and Cross Slope Control System.
- Conveyor / Tractor Frame / Strike-off extensions to allow wider spreading widths.
- Night Lighting options either 24VDC or AC lighting options such as 400W Metal Halide Lights or Powermoon powered by hydraulic motor driven generator
- Hydraulic motor driven rotary actuators “**AccuSteer**” mounted between the crawler track yokes and jacking columns to increase maneuverability on site, allow 90 degree steering mode, counter-rotation and other pre-programmed steering modes to speed loading and width change and to reduce hand pours. This option also allows the machine to not only be proportionally speed changed steered but also to be pivot steered.
- Cold morning start kit.
- Sideform extensions for thicker concrete

TRANSPORTABILITY¹⁴

The PS1200 is designed to be transport in a single load. Machine self-load by walking over the top of the deck of a special trailer or self-load by straddling a trailer. With optional “AccuSteer” steering, the machine can walk and steering on a trailer with a removable gooseneck. To reduce weight for interstate transport, the strike-off with spreader plow and winch, conveyor and crawler tracks can be removed.

With the strike-off left in the normal working position the transport width of the PS1200 can be reduced to under 14'-0" (4267 m). With the strike-off moved to the transport position against the tractor frame, the transport width of the PS1200 can be reduced to under 12'-0" (3657mm). The machine can self-load with the provided jacks and telescopic supports to allow a trailer to back under the machine.

TRANSPORT MEASUREMENTS (Approximately - Subject to Confirmation)

Transport Height:

Minimum height to top of Power Unit with muffler, conveyer and strike-off removed and handrail lowered 9'-11 3/4" (3202 mm)

Transport Width and Length:

Transport Width (strike off retracted)..... 11'-11 3/4" (3653 mm)
Transport Width (strike off removed)..... 11'-2 3/8" (3413 mm)
Transport Width (strike off left extended).... under 14' (4267 mm)
Transport Length – 4 track Paving Width plus.... 19'-2 3/4" (5860 mm)

Transport Weight¹⁵ (with strike off /spreader plow removed).....76,665 lbs (34,775 kg)

Transport Weight¹¹ (with strike off /spreader plow/conveyor removed)63,065 lbs (28,606 kg)

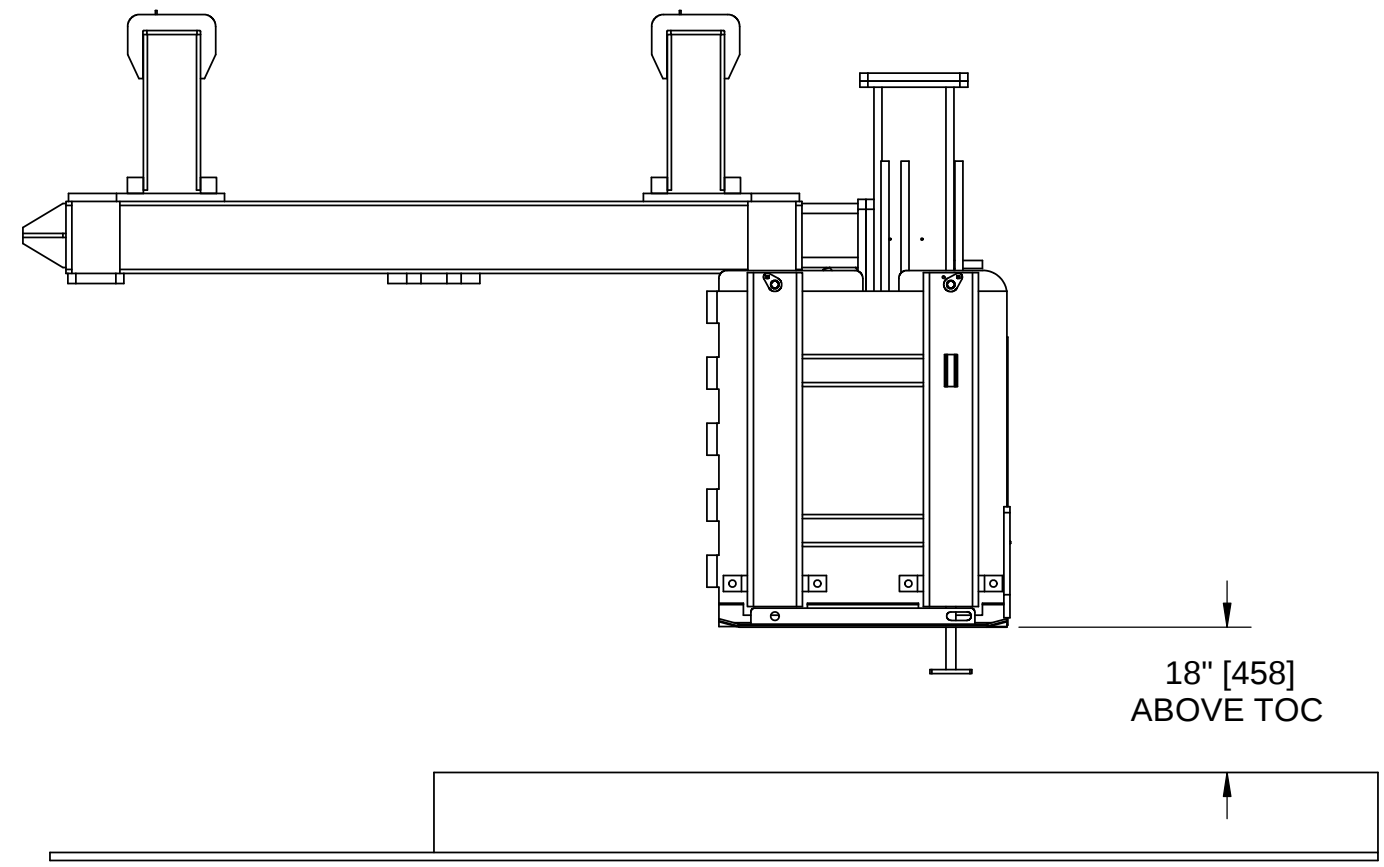
Warning:

- Do not walk this machine on non-compacted or irregular ground or serious structural damage may occur. This machine is intended to be moved and turned on uniformly leveled and compacted track paths.
- Do not walk the machine over irregular ground with jacking columns fully extended or damage to the jacking columns may occur.

¹⁴ When the machine is transported long distances, miscellaneous attachments such as access ladders, platforms, and side form extensions, etc., may require removal. See G&Z 4Track transport drawing G-28897.

¹⁵ at 24' (7.3M) wide, 4 track version.

Guntert & Zimmerman reserves the right to make changes in dimensions, improvements in design, material and/or changes in specification at any time without notice and without incurring any obligation related to such changes.



NOTE:
OPTIONAL REAR SERVICE PLATFORM AD
SPECIAL WATER TANK NOT SHOWN IN THIS VIEW

OPTIONAL 200 GAL [757L]
WATER TANK

OPTIONAL CROWD
PLATES 1L/R

5 3/4" [146]
BELOW TOC

SHOWN SLID IN FOR TRANSPORT

3'- 1/2" [927]

18" [457]
2'-6" [762]
16" [407]

SECTION B-B

RELOCATEABLE CONTROL
CONSOLE MOUNTED TO
HANDRAIL

STRIKEOFF SUPPORT COLUMN HEIGHT
HYDRAULICALLY ADJUSTABLE

12'-9 3/4" [3905]

28 1/4" [718]

16" [406]

1'-4 5/8" [423]

1'-4 3/8" [417]

2'-8 3/8" [823]

3'-8 7/8" [1140]

24'-0" [7315]
SHOWN

4'-0" [1219]

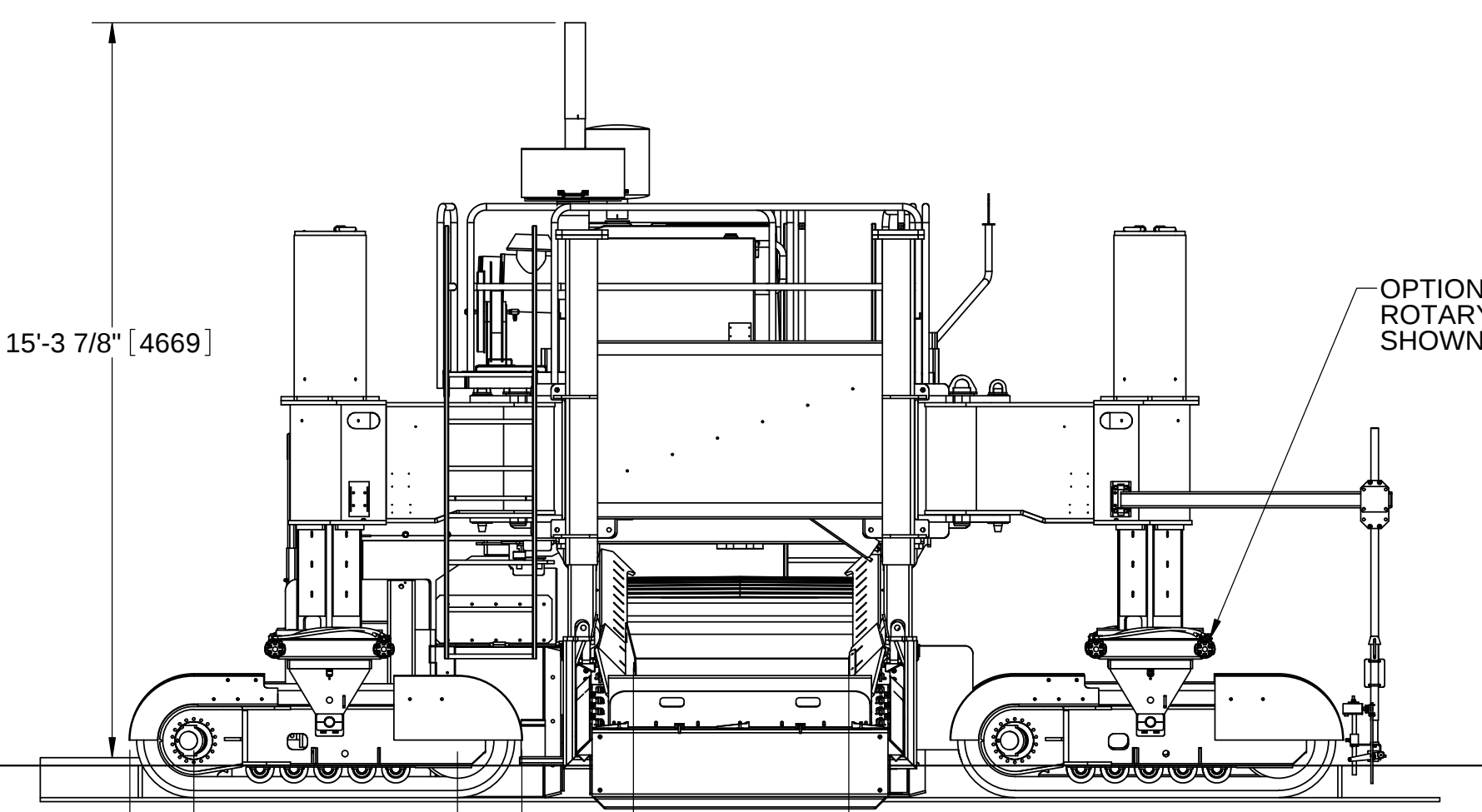
REAR VIEW

OPTIONAL FINE WIDTH
ADJUSTMENT ON
STRIKE-OFF TERMINAL
ENDS SHOWN

OPTIONAL CROWN
SECTION SHOWN

18 1/2" [470]

12'-9 5/8" [3901]



15'-3 7/8" [4669]

5'-6" [1675]

8'-2 1/8" [2491]

64" [1626]
BELT WIDTH

SIDE VIEW

OPTIONAL ROTARY ACTUATORS
SHOWN

CONVEYOR SUPPORT
COLUMN/ SHIPPING STANDS
HYDRAULICALLY
ADJUSTABLE IN HEIGHT
32" STROKE

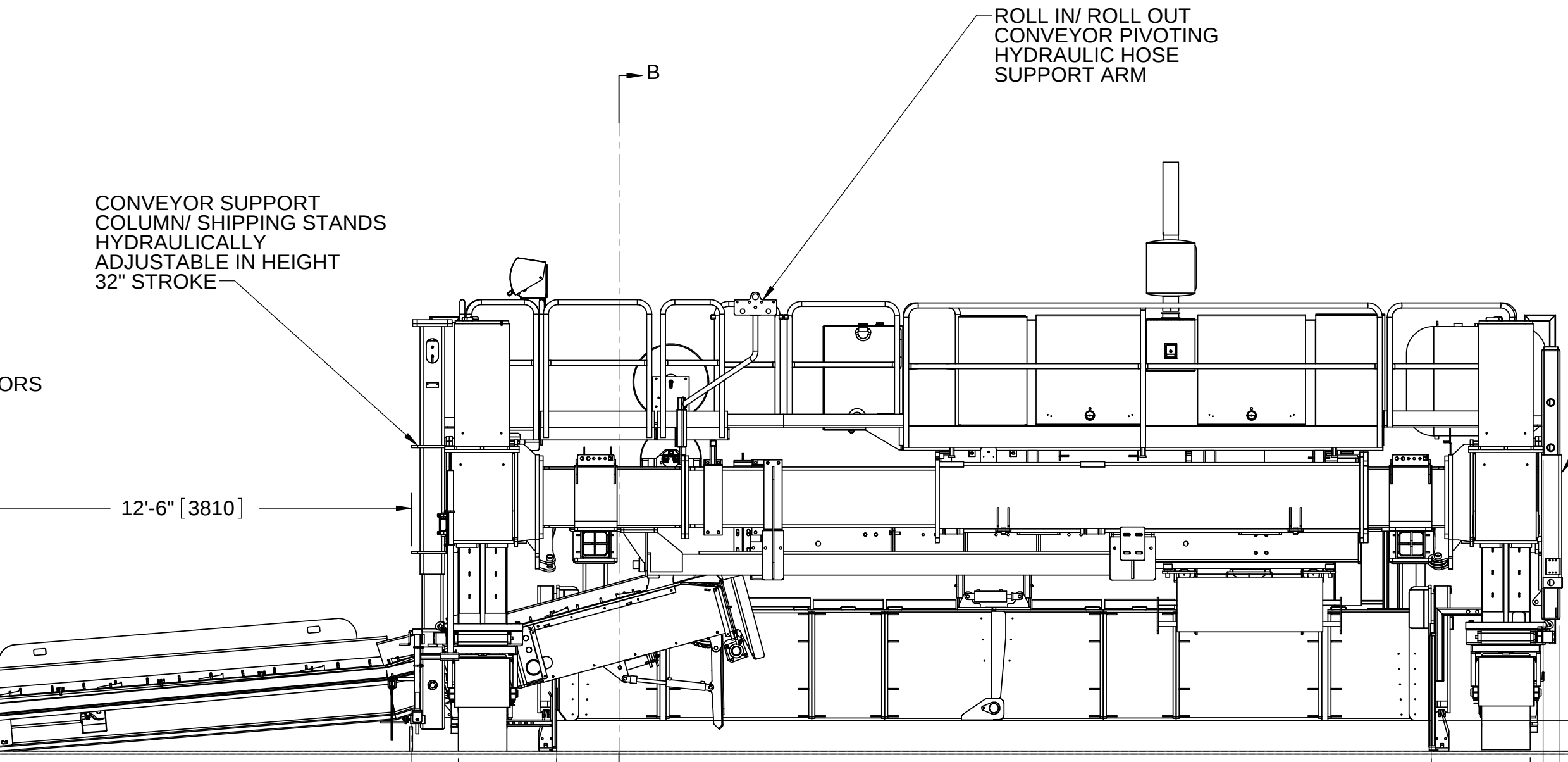
12'-6" [3810]

2'-8 3/8" [823]

4'-0" [1219]

18'-0" [5486] MIN
PAVING WIDTH 24'-0" [7315] SHOWN
41'-0" [12500] MAX

FRONT VIEW



ROLL IN/ ROLL OUT
CONVEYOR PIVOTING
HYDRAULIC HOSE
SUPPORT ARM

SHIPPING STANDS
(REMOVABLE)

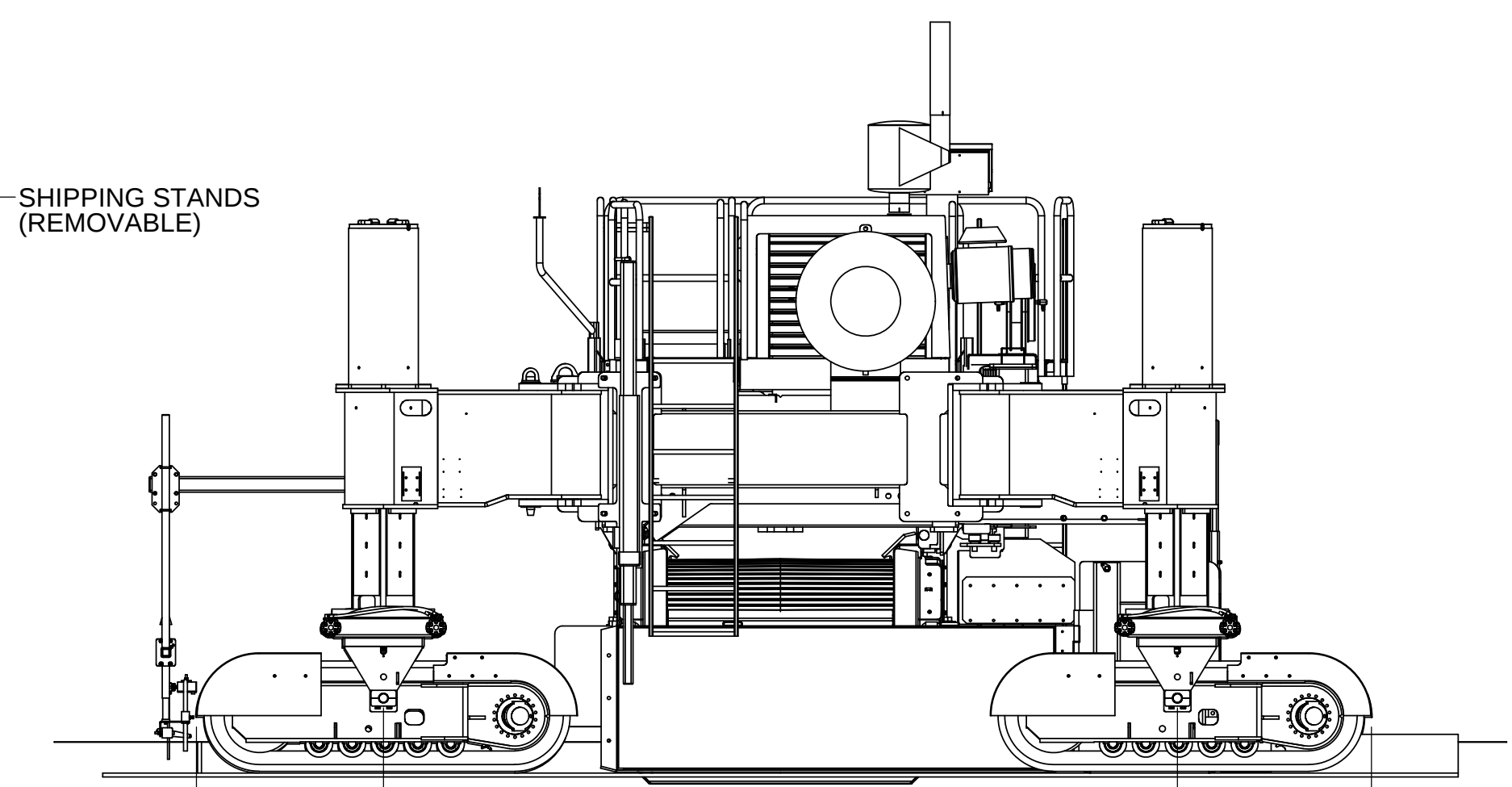
10" [254] SHOWN
27" [686] MAX

2'-8 5/8" [829]

3'- 7/8" [937]
MIN. WIDTH SHIPPING
STANDS REMOVED
3'-6 1/2" [1078]
MIN. WIDTH

17'-1" [5207]

25'-3 3/8" [7706]



POWER REQUIREMENTS

The PS1200 with the 275HP (205 kW) engine has sufficient power for a single 64" [1624] concrete belt, the spreader plow winch and the other normal machine functions up to max 41' or 12.5 M.
Check with G & Z factory for your specific application.

OPERATING NOTES

1) The Placer Spreader is capable of receiving end dump trucks and spreading a workable mix of P.C.C. or Wet Lean Base (Lean Concrete Base) at a variable rate (cubic yards (meters) per hour) in balance with many factors, among them availability of material, the workability of the concrete, forward speed, the method of feed, number of trucks, type hauling equipment used, and a clear run ahead of the Machine on properly prepared truck path with property set controlling grade stakes and wires.

The type of hauling trucks used in conjunction with the Placer Spreader has to be carefully considered. Load size, hinge location of the dump bed on the truck frame, dump bed apron length, tail gate design, whether vibration is available on the truck bed or not and host time all have a large impact on how quickly the truck can spot, discharge its load in the Placer Spreader skip and pull away. Concrete slump and cohesiveness must be carefully controlled and will have an impact on the discharge rate of the truck. If the concrete lacks cohesiveness or the concrete slump is too low, the truck bed may discharge from the truck bed all at once (once the truck bed reaches a certain angle) and flood the Placer Spreader skip. Dry concrete can also bridge in the Placer Spreader skip. In both of these cases production may suffer if alternative means of metering the load is not used.

2) The Machine can also be used for placing and accurately spreading dry granular or optimum moisture base course materials; optional pre-compaction beams can be used for the purpose of imparting an initial compaction to the material being spread.

Under this Contract optional pre-compaction beams with supports are not X included for partial compaction.

The degree of compaction attainable with pre-compaction beams will depend on the nature of the material and forward travel speed of the Machine. Supplemental compaction by other means should be anticipated.

3) Production Rates: As an example only, the theoretical capacity of 100% efficiency of the Machine with a single station of feed (side feeding) using 8 cyd (6 M3) U.S.A. type end dump trucks [taking into consideration the limitations mentioned in 1) above] the Machine can receive and spread concrete on an average cycle of one truck every 1-1/2 minutes or 320 yd3/hr (240 M3/hr). This matches the 100% output of most 8 cyd (6 M3) single drum batch plants which can put out 40 loads per hour.

If you can maintain U.S.A. 75% efficiency, this would yield an average of 240 yd3/hr (180 M3/hr) with a single station of feed. If larger end dump trucks and a larger batch plant are used, higher production rates can be achieved.

For best and highest production results with the Placer Spreader when using U.S.A. type end dump trucks, we recommend your concrete slump be not lower than 1-1/4" (32mm) slump. If lower slump concrete is required, we highly recommend trucks with ejector type beds. With ejector type trailers or truck beds, production rates higher than those achievable with U.S.A. end dump trucks are possible.

4) This Machine is equipped with high lift jacks for the purpose and convenience while spreading, loading and servicing. The Machine is not intended to operate, travel, or turn on uncompacted, irregular or uneven ground (especially with jack over extended) or serious damage may occur, which is not covered under Warranty. If the anti-torsion / twist control system supplied with the Machine is used, it can help mitigate the risk of structural damage if uneven ground is intentionally or inadvertently encountered within the stroke ability of the jacking columns.

5) Raising and Lowering Machine When Not Traveling (Static): To avoid binding of jacks and damage to jacking columns and frame of Machine, the four jacks must be simultaneously checked and Machine kept level when raising and lowering. This can be done by careful signaling between the grade man and the operator signaling of measurements and the use of spirit level on bolsters. The Machine is also equipped with an all-jog function to assist in raising all four corners equally at the same time.

6) Although Machine tractor frame is structurally capable of spanning up to 41' (12.5 M), some sag in the frame may occur at the wider widths. This is normal on a beam type construction frame. For widths narrower than 18' (5.5 M) and greater than 41' (12.5 M) check with G&Z factory for your specific application.

7) This plan is made a part of the Contract.

*100% efficiency or continuous uninterrupted production, and requires a clean run ahead of the Machine, sufficient material and trucks available, no delays to the forward travel of the Machine such as but limited to overloading the hopper, etc.

Guntert & Zimmerman reserves the right to make changes in the dimensions, material and/or changed in the specification for improvement(s) in design at any time without notice and without incurring any obligation related to such changes.

Some items shown on this contract drawing may be optional. Check quotation and contract specifications for what is included.

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RELEASED FOR PRODUCTION
JOB NO.
QTY.
DATE

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS IN INCHES
TOLERANCES
FRACTIONS DECIMALS
TWO PLACE DECIMAL 1/32
THREE PLACE DECIMAL 1/64
THREE PLACE DECIMAL 1/64
DIMENSIONS LISTED ON BELT PLATES
DIMENSIONS LISTED ON MAIN STRUCTURAL
MEMBERS
PROPERTY OF GUNTERT & ZIMMERMAN
CONST. DIV., INC.
DRAWN BY: J. L. RYAN
CHECKED BY: J. L. RYAN
ENG. APPR. BY: J. L. RYAN

REV.	DESCRIPTION	DATE	BY	APPD
Revision Table				
GUNTERT & ZIMMERMAN RIPON, CALIFORNIA				
TITLE: FOUR TRACK PS1200 PLACER SPREADER AT 24'-0" [7315mm]				
SIZE: DWG. NO. G28896				
SCALE: 1/48 WEIGHT: SHEET 1 OF 1				

THIS DRAWING IS DIAGRAMMATIC AND
NOT TO SCALE
SOME ITEMS SHOWN ON THIS DRAWING
MAY BE OPTIONAL

