

INDEX OF STANDARD JOB CLASSIFICATIONS USED FOR HIGHWAY, HEAVY,
UTILITIES, AND INDUSTRIAL CONSTRUCTION IN TEXAS

INDEX No.	CLASSIFICATION	PAGE No.
106	ASPHALT RAKER	
112	BATCH PLANT OPERATOR (ASPHALT)	
115	BATCHING PLANT OPERATOR (CONCRETE)	
124	CONCRETE FINISHER (PAVING AND STRUCTURES)	
127	CONCRETE FINISHER HELPER (PAVING AND STRUCTURES)	
139	ELECTRICIAN	
142	ELECTRICIAN HELPER	
143	TELECOMMUNICATION TECHNICIAN	
144	COMMUNICATION CABLE INSTALLER	
150	FLAGGER	
151	FORM BUILDER/SETTER (STRUCTURES)	
154	FORM BUILDER/SETTER HELPER (STRUCTURES)	
160	FORM SETTER (PAVING AND CURB)	
163	FORM SETTER HELPER (PAVING AND CURB)	
172	LABORER, COMMON	
175	LABORER, UTILITY	
187	MECHANIC	
190	MECHANIC HELPER	
194	SERVICER	
196	PAINTER (STRUCTURES)	
199	PAINTER HELPER (STRUCTURES)	
202	PILEDRIIVER	
203	PILEDREIVER HELPER	
205	PIPELAYER	
208	PIPELAYER HELPER	
214	BLASTER	
217	BLASTER HELPER	
300	ASPHALT DISTRIBUTOR OPERATOR	
303	ASPHALT PAVING MACHINE OPERATOR	
305	BROOM OR SWEEPER OPERATOR	
306	CRAWLER TRACTOR	
315	CONCRETE PAVING CURING, FLOAT, TEXTURING MACHINE	
318	CONCRETE PAVING FINISHING MACHINE OPERATOR	
329	JOINT SEALER	
333	CONCRETE PAVING SAW OPERATOR	
339	SUBGRADE TRIMMER	
341	SMALL SLIPFORM MACHINE OPERATOR	
342	CRANE, LATTICE BOOM (80 TONS OR LESS)	
343	CRANE, LATTICE BOOM (OVER 80 TONS)	
344	CRANE, HYDRAULIC (80 TONS OR LESS)	
345	CRANE, HYDRAULIC (OVER 80 TONS)	
346	LOADER BACKHOE	
347	EXCAVATOR (50,000 LBS OR LESS)	
348	EXCAVATOR (OVER 50,000 LBS)	
351	CRUSHER OR SCREENING PLANT OPERATOR)	
360	FOUNDATION DRILL OPERATOR, CRAWLER MOUNTED	
363	FOUNDATION DRILL OPERATOR, TRUCK MOUNTED	
369	FRONT END LOADER (3 CY OR LESS)	

INDEX No.	CLASSIFICATION	PAGE No.
372	FRONT END LOADER (OVER 3 CY)	
380	MILLING MACHINE OPERATOR	
390	MOTOR GRADER OPERATOR, FINE GRADE	
393	MOTOR GRADER OPERATOR, ROUGH	
396	PAVEMENT MARKING MACHINE	
399	CONCRETE/GUNITE PUMP OPERATOR	
402	ROLLER (ASPHALT)	
405	ROLLER (OTHER)	
411	SCRAPERS	
413	OFF ROAD HAULER	
417	SELF-PROPELLED HAMMER OPERATOR	
428	AGRICULTURAL TRACTOR	
437	TRENCHING MACHINE, LIGHT	
440	TRENCHING MACHINE, HEAVY	
441	TUNNELING MACHINE OPERATOR, HEAVY	
442	TUNNELING MACHINE OPERATOR, LIGHT	
443	PERCUSSION OR ROTARY DRILL OPERATOR	
444	BORING MACHINE	
445	DIRECTIONAL DRILLING OPERATOR	
446	DIRECTIONAL DRILLING LOCATOR	
500	REINFORCING STEEL WORKER	
503	REINFORCING STEEL WORKER (HELPER)	
509	STEEL WORKER (STRUCTURAL)	
512	STEEL WORKER, HELPER (STRUCTURAL)	
513	SIGN ERECTOR	
514	SIGN ERECTOR (HELPER)	
515	CHIP SPREADER OPERATOR	
520	WORK ZONE BARRICADE SERVICER	
600	SINGLE AXLE	
606	SINGLE OR TANDEM AXLE DUMP TRUCK	
607	TANDEM AXLE TRACTOR WITH SEMI TRAILER	
609	LOWBOY—FLOAT	
612	TRANSIT—MIX	
615	BOOM TRUCK	
706	WELDER	
707	STRUCTURAL STEEL WELDER	
709	WELDER HELPER	
715	INSTRUMENT PERSON	
717	ROD OR CHAIN PERSON	

DREDGING CLASSIFICATIONS

720	WATCH ENGINEER
723	OILER
726	LABORER
729	LEVERMAN
732	MATE
735	DECKHAND
738	BOATMEN (OVER 250 H.P.)
741	BOATMEN (UNDER 250 H.P.)

JOB CLASSIFICATIONS AND DESCRIPTIONS

106 Asphalt Raker: Distributes asphaltic materials evenly over road surface by raking and brushing material to correct thickness; may control screed to regulate width and depth of materials; directs Laborers when to add or take away material to fill low spots or to reduce high spots.

112 Batch Plant Operator (Asphalt): Operates a stationary or portable batching scale that weighs out asphaltic materials. Adjusts scales for required weight of the materials. Operates controls that admit materials separately from storage hoppers to weighing bins. Observes scales or indicators that show when proper amount of materials have been made. Discharges materials from weighing bin into truck or other carrier. May operate all equipment necessary to support batching operations. May oil, grease or otherwise service or make adjustments, including welding. May measure materials by weight. May perform quality control and assurance. Performs other related duties.

115 Batching Plant Operator (Concrete): Operates a stationary or portable batching scale that weighs out concrete materials. Adjusts scales for required weight of the materials. Operates controls that admit materials separately from storage hoppers to weighing bins. Observes scales or indicators that show when proper amount of materials have been made. Discharges materials from concrete plant or pugmill into truck or other carrier or mixer. May operate all equipment necessary to support batching operations. May oil, grease or otherwise including welding. May measure materials by volume or weight. May perform quality control and assurance. Performs other related duties.

124 Concrete Finisher (Paving and Structures): Finishes the exposed surfaces of fresh concrete paving, median barrier and every element of concrete structures to the final trowels. Operates bridge deck finishing machine. Forms and finishes edges and joints. Finishes concrete curbs and gutters. Finishes exposed surface of concrete after forms have been removed by patching imperfections with fresh concrete, rubbing surface with abrasive stone, and directing others in removing excess or defective concrete with power tools. Performs other related duties.

127 Concrete Finisher Helper (Paving and Structures): A worker semi-skilled in concrete finishing who assists Concrete Finisher by performing specific or general duties of lesser skill and keeping Concrete Finisher supplied with materials, tools, and supplies; cleaning working area and equipment; and holding materials or tools. Performs other related duties.

139 Electrician: Plans and directs the layout of metal electrical conduit, installs wiring systems, switch panels, buss bars; works on overhead distribution systems and underground distribution systems. Performs other related duties.

142 Electrician Helper: A worker semi-skilled in electrician work who assists electrician in bending conduit with hydraulic bender; assists in the installation of metal conduit; assists installation of wiring systems; assists in lining up conduit; assists electrician in taking measurement; assists in mounting buss bars, lighting panels; fixtures, control panels, and ringing out phases. Also pulls wire through conduit. May use the tools of the trade at and under the direction of the electrician. Performs other related duties.

143 Telecommunication Technician: Installs and troubleshoots communication equipment including cabling for the transmission of communication circuits. Terminates and tests communication circuits including video, voice and data. Installs communication equipment in buildings, outdoor cabinets and pole mounted installations. Installs, terminates and tests optical fiber cables as well as copper communication cable carrying less than 50 volts AC. Performs other related duties.

144 Communication Cable Installer: Installs communication cable under direction of telecommunication technician including optical fiber and cable carrying less than 50 volts AC. Operates equipment associated with cable installation. Performs other related duties.

150 Flagger: A worker who directs traffic in or around a construction site. May use signs or devices to direct traffic. May help assemble, position, and clean devices or equipment used to direct traffic. Must be able to effectively communicate with the public. May require certain level of training by TxDOT specifications. Performs other related duties.

151 Form Builder/Setter (Structures): Works from plans to build, assemble, fit together, align, plumb, and set in place forms for molding concrete structures. Forms may be wood, steel, aluminum, fiberglass or any other type of material. Checks forms while concrete is being placed. Directs others in stripping forms after concrete is placed. May install miscellaneous materials integral to concrete structures. May install precast concrete elements. Prepares for slipforming traffic rail and median barrier. May install permanent metal deck forms. May work with power tools. Performs other related duties.

154 Form Builder/Setter Helper (Structures): A worker semi-skilled in form building and setting who assists the Form Builder/Setter in tasks such as nailing together rough forms, erecting scaffolds, driving stakes for braces and sawing lumber to length at the direction of the Form Builder. Assists in assemble and disassembly of steel, wood, aluminum, or fiberglass forms. May assist in laying out forms, erection of precast elements and may expedite materials. May work with power tools. Performs other related duties.

160 Form Setter (Paving and Curb): Fits together, aligns and sets to grade metal and wooden forms for placement for concrete paving and curbs. Works with survey crew to set stringline for paving, curb and gutter and curb. Performs other related duties.

163 Form Setter Helper (Paving and Curb): A worker semi-skilled in form setting who works under the direction of a Form Setter. Helps Form Setter by carrying forms and tools, helps to set heavy forms, drives stakes, and generally assists Form Setter. Assists Form Setter with stringline. May operate power equipment. Performs other related duties.

172 Laborer, Common: A general term used on construction work covering many unskilled classifications requiring work of a physical nature. A laborer works with all crews doing everything from pick and shovel work to cleaning up lumber with hammer, shoveling and placing concrete, uses air tools, cleans concrete joints and fills joints with sealing compound from bucket or with hose and nozzle from a central source, applies coating of oil to inside face of forms, may help set and strip forms, unloads and transports reinforcing steel, cures newly poured concrete, helps lower pipe into ditch for pipelayers, builds fences, works with dirt crew keeping construction layout stakes out of the way of dirt-moving equipment. May fine grade excavation and ditches, shovels hot asphalt material. May use power tools and other necessary equipment in demolition work. Does not ordinarily perform work permitting exercise of independent judgment or without close direction by other workers. Usually an entry level position as the first step to learn a skill. Performs other related duties.

175 Laborer, Utility: Performs a variety of manual duties, usually working in a utility capacity by working on multiple projects and tasks where demands require workmen with varied experience and ability to work without close direction. Unloads and transports reinforcing steel. May occasionally place and tie reinforcing steel. Directs common laborers in pouring concrete. Erects shoring and bracing. Assists in installation of pipe. Installs, operates, and maintains dewatering systems. May assist equipment operators in positioning machines, verifying grades and signaling operators to dumping positions to maintain grades as directed. Uses power tools and air tools. May work as lead in a labor crew. The performance of a wide variety of construction jobs distinguishes this worker from a helper assigned to a specific craft. Installs and maintains erosion

control. Is more or less a general utility construction worker. May be second step in learning a skill, and may later become a helper in a specific classification. Performs other related duties.

187 Mechanic: Assembles, sets up, adjusts and maintains and repairs all types of construction equipment and trucks. May perform the duties of a welder in repair of equipment. Performs other related duties.

190 Mechanic Helper: A worker semi-skilled in mechanic work who works under the direction of a Mechanic. Carries tools and parts to the Mechanic. Helps the Mechanic lifting heavy parts into place. Cleans equipment and parts. Replaces fuel, oil, lubricants, and filters as necessary for repairs on the equipment during repairs. Operates equipment engine and accessories under Mechanic's direction. May use tools of the trade under direction of the Mechanic. Performs other related duties.

194 Servicer: Drives a truck which carries various fuels, oils, greases and filters. Must have knowledge of and is responsible for the correct fueling, oiling, greasing and changing of filters on equipment according to manufacturers' specifications. Uses compressed air grease guns, wrenches, and other tools. May make adjustments to clutches, brakes and other mechanical items. Keeps record of service for preventive maintenance records. May have laborer assist. May require CDL if driving truck on public highways. Performs other related duties.

196 Painter (Structures): Paints and stains structural steel and concrete surfaces of bridges, retaining walls or other structures. Directs cleaning and abrasive blasting of surfaces prior to painting or staining. Performs other related duties.

199 Painter Helper (Structures): A worker semi-skilled in painting who works under the direction of a Painter. Supplies paint and tools to the Painter, cleans painting equipment, erects and moves scaffolds. Uses wire brushes and other tools to prepare surfaces for painting. Performs other related duties.

202 Piledriver: Sets in place, aligns, plumbs and directs driving of timber, concrete, steel, pipe and any other type of piling. Sets, drives, and pulls steel, concrete and other types of sheet piling. Rigs pile and leads and bracing. Signals operator. Splices piles before and after driving. Directs pile cutoffs. May direct jetting or drilling equipment in connection with installing piles to grade. Performs other related duties.

203 Piledriver Helper: A worker semi-skilled in pile driving who works under the direction of a piledriver. Supplies tools and equipment to the Piledriver, helps with setting and rigging piles and leads and bracing. Performs pile cutoffs, keeps work area clean, and generally assists Piledriver. May perform other related duties.

205 Pipelayer: Installs concrete, clay, steel, ductile iron, plastic, corrugated pipe and any other type of pipe for storm drainage, water lines, gas lines and sanitary sewer lines. Lays underground communication and electrical ducts. May install and set electrical ground boxes, hand holes, manholes, inlets and other structures. Caulks joints, makes threaded and flanged connections. Installs valves and other accessories. Performs other related duties.

208 Pipelayer Helper: A worker semi-skilled in pipelaying who works under the direction of a Pipelayer. Grades ditch with hand or power tools, helps lower pipe into ditch, installs joint materials, supplies Pipelayer with materials and tools, and generally assists Pipelayer. Performs other related duties.

214 Blaster: Loads and fires blast holes for breaking up rock, concrete and other hard materials. Stores and handles explosives and detonating devices. Attaches fuses and electric wires. May use prima-cord or delay caps. Performs other related duties.

217 Blaster Helper: A worker semi-skilled in blasting who works under the direction of a Blaster. Carries explosives and accessories to the Blaster, helps prepare explosives in the drill hole, and generally assists Blaster. Performs other related duties.

300 Asphalt Distributor Operator: Drives distributor truck, sets spray bars and operates valves and levers to control distribution of bituminous material for highway surfacing. May oil, grease or otherwise service and make adjustments to equipment as needed. Performs other related duties.

303 Asphalt Paving Machine Operator: Operates paving machine that spreads and levels asphaltic concrete on highway subgrade. Controls movement of machine, raises and lowers screed, regulates width of screed. May oil, grease, service and make adjustments to equipment as needed. Performs other related duties.

305 Broom or Sweeper Operator: Operates a self-propelled machine to sweep and clean roadway surfaces. May oil, grease, service and make adjustments to equipment as needed. Performs other related duties.

306 Crawler Tractor: Operates a crawler tractor with a bulldozer mounted in front of chassis to level, distribute and push earth or other material. May operate a ripper attachment to break up rock or other hard material. May use a push block on front of tractor to push load scrapers. May oil, grease or otherwise service and make minor repairs to equipment as needed. Performs other related duties.

315 Concrete Paving Curing, Float, Texturing Machine: Operates self-propelled machine(s) which may or may not travel on concrete paving forms, and operates pump on the machine which sprays curing compound on freshly poured concrete or tube floats concrete or textures fresh concrete. May oil, grease, or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

318 Concrete Paving Finishing Machine Operator: Operates self propelled machine(s) which may or may not travel on paving forms, spreading and leveling fresh concrete to grade by use of augers and screeds. May oil, grease, to otherwise services and make adjustments to equipment as necessary. Performs other related duties.

329 Joint Sealer: Cleans and seals joints requiring a hot or cold sealing compound in concrete paving, sidewalks, driveway and approach slabs. May oil, grease or make necessary repairs and adjustments. Performs other related duties.

333 Concrete Paving Saw Operator: Operates a water-cooled power saw with either diamond or an abrasive blade to saw expansion and contraction joints in concrete paving. May also be used to saw asphaltic pavements. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

339 Subgrade Trimmer: Operates a machine that controls subgrade elevation. Machine may run on paving forms or be controlled electronically. Machine may be automated to control depths of subgrade or operator may mechanically operate to eject excess materials from subgrade with augers or blades. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

341 Small Slipform Machine Operator: Operates a self-propelled machine which may either lay curb and gutter, median safety barrier or bridge rail. Manipulates hand or foot levers to control movements of the machine. Raises or lowers screed, regulates width of screed. May oil, grease, or otherwise service and make necessary adjustment to equipment as needed. Performs other related duties.

342 Crane, Lattice Boom (80 tons or less): A worker who operates a lattice boom type crane to hoist and move materials, raise and lower heavy weights and perform other related operation. May be crawler type or rubber-tired. May include placement of rock riprap, clamshell, dragline, pipe and pile driving operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

343 Crane, Lattice Boom (Over 80 tons): A worker who operates a lattice boom type crane to hoist and move materials, raise and lower heavy weights and perform other related operation. May be crawler type or rubber-tired. May include placement of rock riprap, clamshell, dragline, pipe and pile driving operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

344 Crane, Hydraulic (80 tons or less): A worker who operates a hydraulic telescoping boom type crane to hoist and move materials, raise and lower heavy weights and perform other related operations. May be crawler type or rubber-tired. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

345 Crane, Hydraulic (Over 80 tons): A worker who operates a hydraulic telescoping boom type crane to hoist and move materials, raise and lower heavy weights and perform other related operations. May be crawler type or rubber-tired. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

346 Loader Backhoe: Operates a rubber-tired machine mounted with a backhoe bucket on one end and a loader bucket on the other end. Used for excavating ditches and structures, laying pipe and precast concrete structures, carrying material in the loader bucket, and general excavation and backfill. May also be equipped with hydraulic attachments. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

347 Excavator (50,000 lbs or less): Operates a crawler or rubber-tired machine mounted with an excavator bucket. Used for excavating ditches and structures, laying pipe and precast concrete structures, loading trucks and placing rock riprap. May also be equipped with various hydraulic attachments. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

348 Excavator (Over 50,000 lbs): Operates a crawler or rubber-tired machine mounted with an excavator bucket. Used for excavating ditches, structures and mass excavations, laying pipe and precast concrete structures, loading trucks and placing rock riprap. May also be equipped with various hydraulic attachments. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

351 Crusher or Screening Plant Operator: Operates a crusher or screening plant through which rock is run to break it into crushed stone for construction or to control flow of materials through screening plant to screen out materials not needed. May include crushing and screening of broken concrete and asphalt. May make minor repairs and may service and make necessary adjustments to equipment as needed. Performs other related duties.

360 Foundation Drill Operator, Crawler Mounted: Operates a hole drilling machine that is crawler mounted. May include geotechnical operations such as soil nails, rock nails, tiebacks, anchors or jet grouting. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

363 Foundation Drill Operator, Truck Mounted: Operates a hole drilling machine that is mounted on the rear of a rubber-tired vehicle or truck. May include soil nails, rock nails, tiebacks, anchors or jet grouting. Drives truck from location to location or may have laborer who drives truck. May

oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

369 Front End Loader (3 CY or Less): Operates a rubber-tired, skid steer, or crawler type tractor with an attached scoop type bucket on front end. Machine is used to load materials from stockpiles, excavation, charging batch plants, loading and unloading trucks. May be used with attachments in lieu of the bucket. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

372 Front End Loader (Over 3 CY): Operates a rubber-tired, skid steer, or crawler type tractor with an attached scoop type bucket on front end. Machine is used to load materials from stockpiles, excavation, charging batch plants, loading and unloading trucks. May be used with attachments in lieu of the bucket. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

380 Milling Machine Operator: Operates power-driven milling machine that planes material of the roadbed and discharges the material into a hauling unit or a window. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

390 Motor Grader Operator, Fine Grade: Operates motor grader. Performs many of the same duties of Motor Grader, Rough, but in addition performs finish grade work to bluetops or other close specification control. This work is subject to strict inspection and must conform closely to specifications. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

393 Motor Grader Operator, Rough: Operates Motor Grader. Equipment is used to grade excavation and embankment and to lay asphalt, base and other materials. May blade haul roads and do other general motor grader work, but does not perform finish grade work to close specification tolerances. This operator may be a trainee in the first phase of learning the skills of motor grader work. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

396 Pavement Marking Machine: Operates a machine used in laying paint stripes or markers on all types of paving. Loads machine with appropriate materials and may walk or ride on machine. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

399 Concrete/Gunite Pump Operator: Operates a pumping machine that pumps fresh concrete, gunite or grout. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

402 Roller (Asphalt): Operates a self-propelled machine with either steel wheels or pneumatic tires which is used to compact and smooth all bituminous materials. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

405 Roller (Other): Operates a self-propelled machine with either steel wheels or pneumatic tires which is used to compact earth fills, subgrade, flexible base and all other types of materials except bituminous. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

411 Scrapers: Operates a self-contained wheeled tractor scraper both self-loading or assisted by crawler tractors or other scrapers. Used to excavate and transport earth or other materials. May oil, grease or equipment as needed. Performs other related duties.

413 Off Road Hauler: Drives an off road hauler loaded by another machine, mounted on wheels, that transports earth or other materials. May also operate an off road water tanker. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

417 Self-Propelled Hammer Operator: Operates a self-propelled machine which has an attachment used for breaking concrete, asphalt or other martial. Machine may be air, hydraulic or cable operated. Machine is usually mounted on rubber tires but may be truck mounted. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

428 Agricultural Tractor: Operates a gasoline or diesel powered agricultural tractor that tows compaction rollers, plow, disc. Water tanks, scrapers and other similar operations. May use other miscellaneous attachments. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

437 Trenching Machine, Light: Performs duties similar to those performed by operator of a Trenching Machine Heavy, except that machine excavates a trench less than 5 feet in depth and may be rubber-tired. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

440 Trenching Machine, Heavy: Operates a machine that digs trenches for sewer, underground cable, underground pipes for electrical communication, water, drainage, oil and gas and other pipe lines. The heavy trenching machine excavates trenches more than 5 feet in depth, and is mounted on crawler treads with the digging equipment usually consisting of an endless chain or wheel of edged buckets or other cutting devices that excavate and discharge the material at the side of the trench. May also be used for mass excavations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

441 Tunneling Machine Operator, Heavy: Operates a machine which creates a tunnel through dirt or rock for the purpose of installing subterranean facilities such as utilities, including sanitary sewer and water mains, storm sewers, pedestrian tunnels, vehicular tunnels and subways. The tunneling machine excavates tunnels greater than 2,500 feet in continuous length. Sets up machine to line and grade. Checks grade during tunneling operation. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

442 Tunneling Machine Operator, Light: Operates a machine which creates a tunnel through dirt or rock for the purpose of installing subterranean facilities such as utilities, including sanitary sewer and water mains, storm sewers, pedestrian tunnels, vehicular tunnels and subways. The tunneling machine excavates tunnels less than 2,500 feet in continuous length. Sets up machine to line and grade. Checks grade during tunneling operation. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

443 Percussion or Rotary Drill Operator: Operates rock drilling equipment that may be used in advance of blasting operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

444 Boring Machine: Operates boring machine that drills holes through dirt or rock in a generally horizontal plane to provide an excavation for an encasement or carrier pipe in a wet or dry condition. May operate a jacking machine to install conduit in a generally horizontal plane. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

445 Directional Drilling Operator: Operates a directional drilling machine that drills holes through dirt or rock with a directional locating beam and directional steering capabilities. Machine may utilize various steering head tools to control the direction of the drill. Controls speed of drilling, drilling fluid characteristics and pullback of pipe being installed. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

446 Directional Drilling Locator: Operates a directional drilling machine that drill holes through dirt or rock with a directional locating beam and directional steering capabilities. Machine may utilize various steering head tools to control the direction of the drill. Controls speed of drilling, drilling fluid characteristics, and pullback of pipe being installed. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

500 Reinforcing Steel Worker: Works from plans to lay out and install reinforcing steel within forms or in mats of concrete paving. May direct unloading of material. Determines rigging required to complete work. Gives direction to reinforcing steel worker (helper) or common or utility laborers. May install miscellaneous materials integral to concrete structures or paving. May work with power tools. Performs other related duties.

503 Reinforcing Steel Worker Helper: A worker semi-skilled in reinforcing steel work who works under the direction of a Reinforcing Steel Worker. Assists in placing and tying reinforcing steel at required locations. May install miscellaneous materials integral to concrete structures of paving. May work with power tools. Performs other related duties.

509 Steel Worker (Structural): Erects and places fabricated structural steel members, such as girders, plates, diaphragms, lateral bracing, and unites them permanently to form a completed structural steel unit. Fastens steel members together by welding or bolting. Gives direction to steel worker (Structural) helper May include dismantling and erecting large units of equipment. Performs other related duties.

512 Steel Worker (Structural) Helper: A worker semi-skilled in structural steel work who works under the direction of a Steel Worker (Structural). Performs duties as required and directed by the Steel Worker. Performs other related duties.

513 Sign Erector: Sets forms, reinforcing steel, anchor bolts and pours concrete for sign foundations. Fabricates and erects pipe and angle frameworks by bolting, welding or other means prior to installation of signs that are normally prefabricated. Works from alignment of signs. May direct hoisting of signs into place. Fastens signs to framework by bolting and other means. Locates and sets lighting brackets. May perform other work associated with signing projects. Supervises sign erector helper. Performs other related duties.

514 Sign Erector Helper: A worker semi-skilled in sign erection who works under the direction of a sign erector. Expedites tools and materials, assists in hoisting operations, drills holes located by the sign erector, may bolt pipe, angle, or signs in place. Performs other related duties.

515 Chip Spreader Operator: Operates spreader box by adjusting hopper and strike-off blade so that gravel, stone or other material may be spread to a specific depth on road surface during seal coat and surface treatment operations. May oil, grease or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

520 Work Zone Barricade Servicer: Fabricates, erects and maintains temporary traffic control devices, including arrow boards, signs, barricades, channelizing devices, barrels and all message boards,. May operate a truck during traffic control operations.

600 Single Axle: Drives a light capacity truck for transporting loads of construction material. The truck is of single rear axle type, may have various kinds of beds attached such as dump, flat bed, tank, etc. May require CDL license for driving on highway. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

606 Tandem Axle Truck: Drives a heavy duty truck used in hauling materials. The truck is of tandem rear axle type, may have various kinds of beds attached such as dump, flat bed, tank, etc. May also be used for operation of water trucks. May require CDL license for driving on highway. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

607 Tandem Axle Tractor with Semi Trailer: Drives a tractor pulling a semi trailer hauling materials. Hauls dirt, rock, aggregates or other material. May require CDL license for driving on highway. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

609 Lowboy—Float: Drives a tractor to which is attached a trailer upon which heavy equipment is hauled. Driver is often required to operate heavy equipment to load or unload the lowboy. May require CDL license for on-highway use. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

612 Transit—Mix: Drives a truck upon which is mounted a concrete mixer. Operates concrete mixer and dumps concrete on the grade, into forms or into concrete pumps or buckets. Cleans mixer drum. May require CDL license for on-highway use. May service and make necessary adjustments for proper operation of equipment. Performs other related duties.

615 Boom Truck: Drives a single or tandem axle truck equipped with a hydraulic telescopic or articulated boom for picking up various objects. Operates boom in accordance with signals from helper on ground. May require CDL license for highway use. May service and make necessary adjustments for proper operation of equipment. This classification used only when boom is operated; otherwise operator should be classified under appropriate truck driver classification. Performs other related duties.

706 Welder: Operates welding equipment. Cuts, lays out, fits and welds metals or alloyed metal parts to fabricate or repair equipment. Welds the joints between lengths of pipe for oil, gas or other types of pipelines. Welds structural steel girders and diaphragms. Gives direction to welder helper. May assist in welding of permanent metal deck forms. Performs other related duties.

707 Structural Steel Welder: Certified by the American Welding Society to perform structural steel welding. Operates welding equipment. Welds structural steel girders and diaphragms. May weld permanent metal deck forms. Performs other related duties.

709 Welder Helper: A worker semi-skilled in welding who works under the direction of a Welder and assists as needed. Delivers tools and supplies to Welder as needed and adjusts and operates the welding machine. Performs other related duties.

705 Instrument Person: Sets up, adjusts and operates surveying instruments, including GPS and total station. Works from plans to establish lines, points and grades for construction purposes; keeps notes and records of data. Computes cross sections of work performed for cost or payment purposes. Directs Rod or Chain Person and is responsible for accuracy of this field engineering work. Performs other related duties.

717 Rod or Chain Person: Uses surveyor's chain to measure distances as directed by Instrument Person. May mark reference points. May hold engineering rod at points designed by Instrument

Person to establish or obtain elevation of those points. May set stakes. Performs other related duties.

DREDGING CLASSIFICATIONS

720 Watch Engineer: A general term applied to a skilled worker who under the direction of the Chief Engineer is responsible for the starting, stopping and operation of main and auxiliary engines whether gas, steam or diesel. Checks all engines' pressures, temperatures and R.P.M. and records pertinent data on engines and equipment. Performs other related duties.

723 Oiler: A trainee or semi-skilled worker who under the direction of the watch engineer may oil and grease or otherwise service all engines and necessary equipment as needed. May clean and paint engine room as needed. Performs other related duties.

726 Laborer: A general term used on dredging work covering many unskilled occupations. A laborer works under the supervision of the dump foreman. Lays and picks up shorepipe, rams and bolts shorepipe together, walks and repairs levees as necessary checks weirs or spillboxes for proper discharge of water and performs a variety of manual duties helping deck crew.

729 Leverman: A worker who operates hydraulic type dredges to excavate earthen materials. Manipulates levers that control the advance, depth of dredging, rate of discharge of materials. May operate pump and spud hoist motor in the repair or service of spuds and pump. Acts as shift foreman in direct supervision of shift duties and safety measures and is directly responsible to the superintendent. Performs other related duties.

732 Mate: A general term applied to a worker who under the direction of the leverman, supervises and operates derrick in shifting swing anchors and lifting other loads with derrick. Assists and supervises in the addition or breaking out of pontoon line and performs necessary maintenance to keep pontoon line in good working condition. Supervises and assists in the cleaning of main pump, suction and cutterhead from debris. Performs other related duties.

735 Deckhand: A trainee or worker semi-skilled who works under the direction of the mate. Assists as needed in shifting anchors, adding pontoons, cleaning of pump, suction and cutter from debris. May oil, grease, chip, and paint or otherwise service and make necessary adjustments to equipment as needed. Performs other related duties.

738 Boatmen (Over 250 H.P.): A skilled operator under the direction of the leverman who operates a dredge tender over 250 H.P. to shift anchors and/or shift pontoon line, move dredge and barges to other locations. May fuel, oil and grease or otherwise service and make necessary adjustments to dredge tender as needed to maintain or keep in operating condition. Performs other related duties.

741 Boatmen (Under 250 H.P.): A skilled operator under the direction of the leverman who operates a dredge tender under 250 H.P. to shift anchors, and/or shift pontoon line, move dredge and barges to other locations. May fuel, oil and grease or otherwise service and make necessary adjustments to dredge tender as needed to maintain or keep in operating condition. Performs other related duties.