

MONTANA REVENUE & TRANSPORTATION INTERIM COMMITTEE

SJR 26 STUDY: MOVEMENT OF OVERSIZE LOADS



- ESTABLISHED IN 1952
- HEAVY INDUSTRIAL FABRICATION AND CONSTRUCTION SERVICES MARKETS
- CORPORATE HEADQUARTERS: CORPUS CHRISTI, TX
- OVER 4000 EMPLOYEES
- ADDITIONAL FACILITIES IN MORGAN CITY AND BELLE CHASSE, LA; TAMPICO, MX; BARRANQUILLA, CO; HOUSTON, TX; AND BILLINGS, MT

MONTANA SOLUTIONS/ADVANTAGES:

- ADEQUATE SKILLED LABOR FORCE
- MODERATE TAXATION
- STABLE ECONOMY
- STABLE WAGE ENVIRONMENT
- UNUSED/UNDERUTILIZED INFRASTRUCTURE
- **POTENTIAL, UNOBSTRUCTED, AFFORDABLE ROADWAYS**
- LESS SEVERE WINTER WEATHER ENVIRONMENT

TRANSPORTATION – A CRITICAL ELEMENT:

- STANDARD, NON-PERMITTED TRUCKABLE PRODUCTS**
- STANDARD PERMITTED TRUCKABLE PRODUCTS**
- EDMONTON “MAX” SPECIALIZED HAUL PRODUCTS AND MODULES**

NOTE: THE BUSINESS PLAN REQUIRED TO SUPPORT THIS FACILITY DEPENDENT ON THE ABILITY TO SAFELY AND EFFICIENTLY MANUFACTURE AND TRANSPORT LARGE/HEAVY COMPONENTS TO CANADA

STRENGTHS:

- BILLINGS LOCATION
- LOCATED ALONG MAJOR TRANSPORTATION ROUTES

WEAKNESSES:

- TRANSPORT PERMITTING
- ABSENCE OF CLEAR HAULING CORRIDOR
- INEFFICIENT, COSTLY, UNIQUE PERMIT HAULS
- UNCERTAINTY OF PERMIT ISSUE AND HAULING TIMETABLES

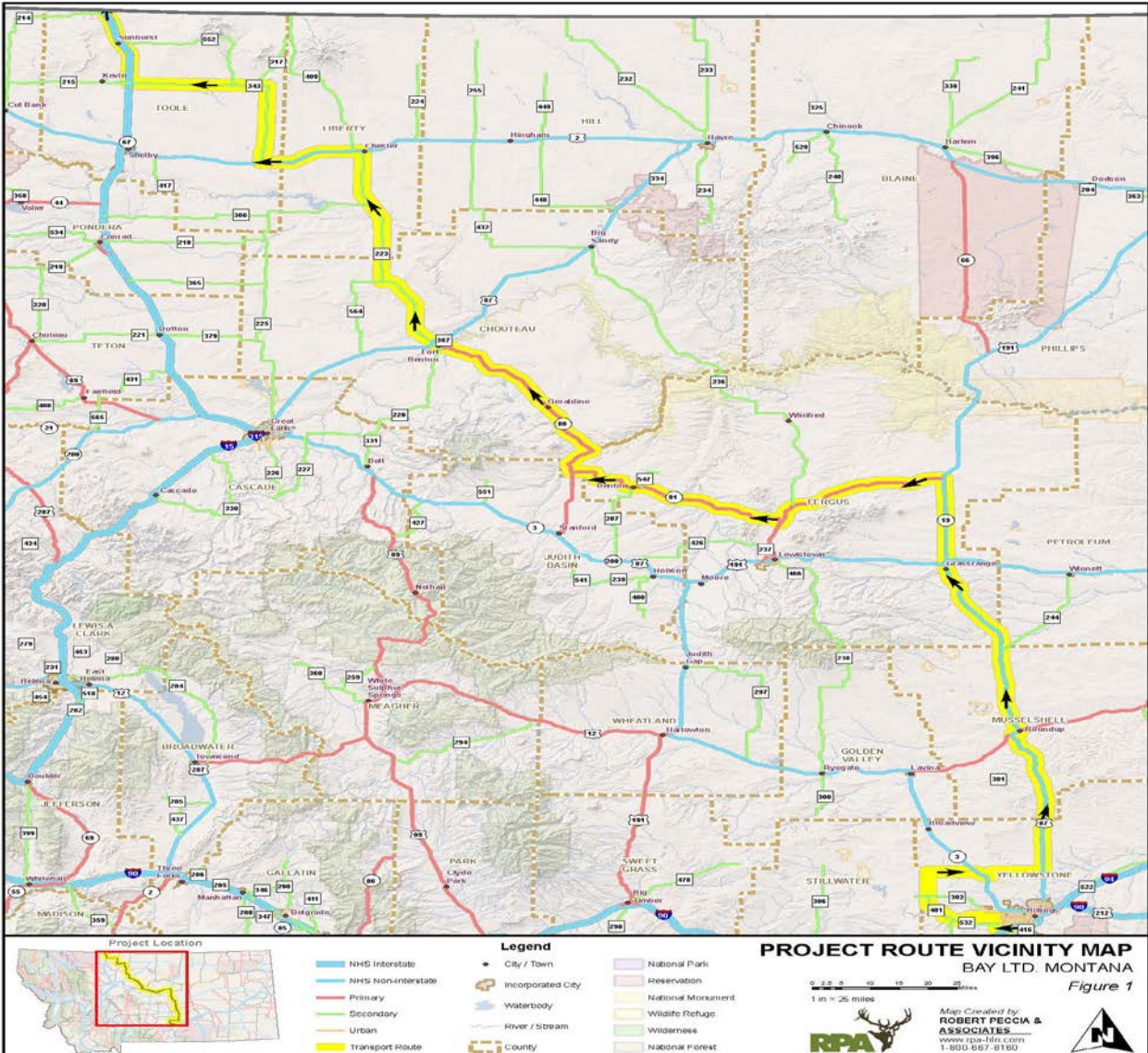
OPPORTUNITIES:

- CANADA OIL SANDS MARKET
- BAKKEN/WILLISTON BASIN FIELD DEVELOPMENT
- 17+ DOMESTIC REFINERIES W/IN SURROUNDING STATES

THREATS:

- TRANSPORTATION COSTS AND TIME DISADVANTAGE
- CANADIAN CLIENT PERCEPTION: MODULES CANNOT BE RELIABLY TRANSPORTED THROUGH MONTANA
- GOVERNMENT DISPOSITION TOWARD PUSHING FOR SMALLER MODULES/COMPONENTS

Transportation Route



- 2-3 “TANDEM” SHIPMENTS PER WEEK
- HEAVIEST LOADS 156 METRIC TONS, 24’W, 29’H, 100’ L
- WEIGHT DISTRIBUTION OVER 8-12 AXLES, MAXIMUM EIGHT-TIRE-AXLE-LINE LOAD: 39,750 LBS
- GROUND PRESSURE/TIRE (APPROX. 5000 LBS.) FOR THE HEAVIEST LOADS
- DO NOT TRAVERSE ANY MOUNTAIN PASSES, NATIONAL PARKS OR NATIVE-AMERICAN LANDS.
- EXCEPT FOR BILLINGS, NO MAJOR METROPOLITAN AREAS ARE IMPACTED

- SHIPMENTS BEGIN AT NIGHT TO AVOID TRAFFIC
- BAY RESPONSIBLE FOR ALL COSTS FOR MODIFICATIONS TO ROADWAYS AND SIGNAGE
- GOOD RELATIONSHIPS AND COOPERATION WITH LOCAL GOVERNMENTS IS GOOD
- ALL SHIPMENTS ARE ENVIRONMENTALLY SAFE
- MONTANA MOTOR CARRIERS USED WHEN POSSIBLE FOR
- AGREEMENTS IN PLACE WITH MONTANA STATE TROOPERS AND LOCAL LAW ENFORCEMENT OFFICIALS FOR ESCORTS

BAY INVESTMENT IN ROUTE CLEARANCE:

- PERMANENT RELOCATION OF UTILITY OBSTRUCTIONS
 - RAISE OR BURY POWER LINES
 - RAISE OR BURY TELECOMMUNICATIONS LINES
 - RELOCATE UTILITY POLES/GUY WIRES
 - INSTALL SWING-OUT, SWIVEL BOLTED CONNECTIONS OR CANTILEVERED POLES FOR \SIGNS, TRAFFIC SIGNALS AND LIGHTS
 - REPLACE OVERHEAD FLASHING LIGHTS WITH SOLAR POWERED SIGNS
- INSTALL/CONSTRUCT A FEW STRATEGIC ROAD-TURNOUTS IN HIGH-TRAFFIC AREAS
- PERFORM ENGINEERING AND PLANNING IN SUPPORT OF ABOVE

Manufacturing/Fabrication of “Edmonton Max” Modules



Manufacturing/Fabrication of “Edmonton Max” Modules



Vessel Move



Vessel Move



Night Move



Night Move



Vessel Move



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TEXAS PERMITTING & ROUTING OPTIMIZATION SYSTEM (TxPROS):

- Online permitting and GIS-based mapping system
- Allows customers to apply for and self-issue many permits
- Modernizes the routing and permitting of oversize and overweight loads
- Provides real-time restriction management
- Also allows you to manage your company's account information

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TXPROS DELIVERS SEVERAL BENEFITS TO OVERSIZE AND OVERWEIGHT LOAD PERMIT CUSTOMERS:

- **Increased route safety**
- **Faster permit issuance**
- **Self-issue capabilities**
- **Turn-by-turn directions**

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TXPROS COMES WITH THE FOLLOWING FEATURES:

- **Permit Wizard** - Tool to help make permit recommendations.
- **Customer Dashboard**
 - current permit application status
 - messages from TxDMV
 - customer statistics
 - links to functions

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CONCLUSIONS:

- **57.8% of all permits were self-issue in 2012**
- **May be capturing “latent-demand”**
- **Maps updated in 1/2 time**
- **Reduced risk of routing mistakes**
- **Agency staff can manage workflow, staffing and performance in real time**
- **Increased data collection**

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CONCLUSIONS CONTINUED:

- **Original investment: \$1.6MM**
- **Initial ROI projected 7-8 years; took less than 1**
- **Reduces damage to highway infrastructure long term, while adding funds for highway maintenance**
- **Saves customers time and money**

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SUMMARY

TXPROS STREAMLINES PERMITTING & ROUTING, ANALYZES AND PRODUCES MORE ACCURATE ROUTES, ELIMINATES MANY MANUAL PROCESSES, INCREASES SAFETY, RAISES MORE REVENUE, STRETCHES LIMITED RESOURCES, EXCEEDS CUSTOMER EXPECTATIONS, AND HAS CAUGHT THE ATTENTION OF OTHER STATES NATIONWIDE.

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WEBSITE:

WWW.TXDMV.GOV/MOTOR-CARRIERS/OVERSIZE-OVERWEIGHT-PERMITS

THANK YOU!