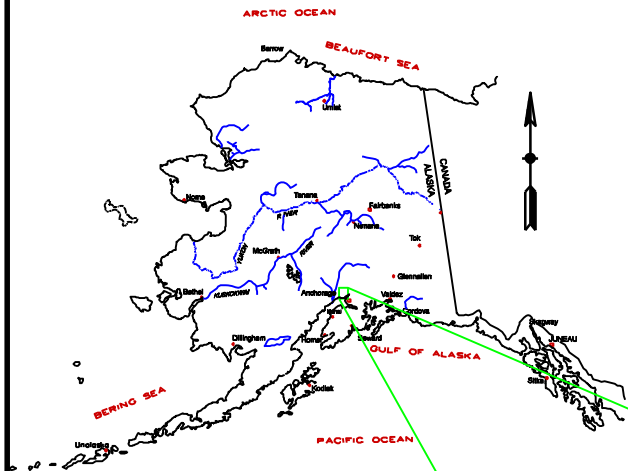
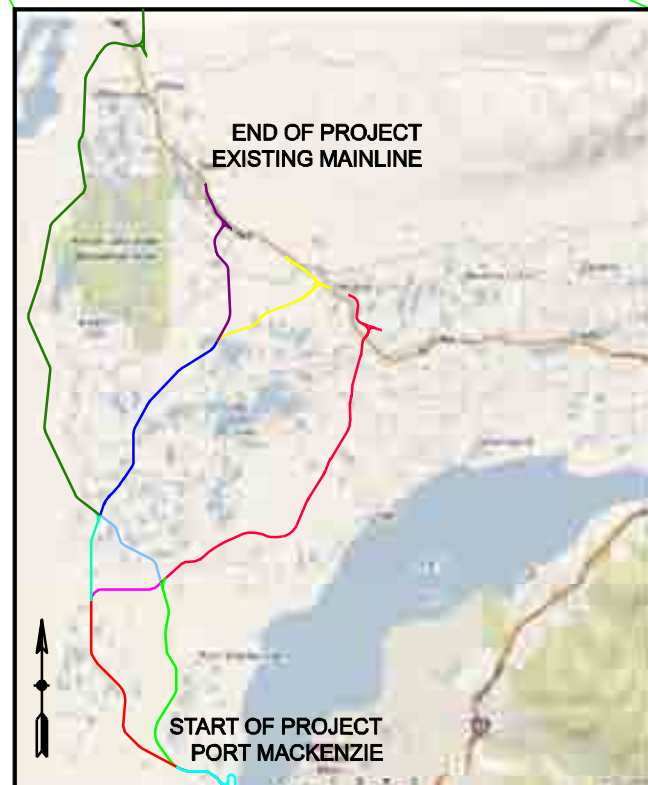


ALASKA RAILROAD CORPORATION PORT MACKENZIE RAIL EXTENSION PORT MACKENZIE TO EXISTING MAINLINE CONCEPTUAL DESIGN JANUARY 2008



LOCATION MAP
SCALE: N.T.S.



OWNER
ARRC
ALASKA RAILROAD CORPORATION
327 W. SHIP CREEK AVE.
ANCHORAGE, AK 99501
(907) 265-2543

CIVIL
TNH-HANSON, LLC
911 W. 8TH AVE.
ANCHORAGE, AK 99501
(907) 279-0543


ENVIRONMENTAL
HDR, INC.
2525 C STREET #305
ANCHORAGE, AK 99503
(907) 644-2000

GEOTECHNICAL
SHANNON & WILSON, INC.
5430 FAIRBANKS STREET, SUITE 3
ANCHORAGE, AK 99518
(907) 561-2120

**CONCEPTUAL PLANS
NOT FOR CONSTRUCTION**

AUTHORED BY: TNH-HANSON, LLC

REV.	DATE	BY	REVISION



**CONCEPTUAL DESIGN
PORT MACKENZIE TO EXISTING MAINLINE**

DESIGNED BY: MAP	SCALE: NONE	AFE NO.:	ACAD FILE:
DRAWN BY: DEM	DATE: JANUARY 2008	DWG NO. A1	OF 48
CHECKED BY: MAP			
APPROVED BY:			

ABBREVIATIONS LIST

AC	ASPHALT CONCRETE	NIC	NOT IN CONTRACT
ADA	FEDERAL STANDARDS FOR ACCESSIBLE DESIGN	NTS	NOT TO SCALE
AK	ALASKA	NW	NORTHWEST
ARRC	ALASKA RAILROAD CORPORATION	OH/E	OVERHEAD ELECTRIC
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	PC	POINT OF CURVATURE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	PF	POINT OF FROG
BOP	BOTTOM OF PIPE	PI	POINT OF INTERSECTION
C&G	CURB AND GUTTER	POL	PETROLEUM OIL AND LUBRICANTS
C/L	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PS	POINT OF SWITCH
COMM	COMMUNICATION LINE	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PT	POINT OF TANGENCY
CPEP	CORRUGATED POLYETHYLENE PIPE	PVC	POINT OF VERTICAL CURVATURE
CSP	CORRUGATED STEEL PIPE	PVI	POINT OF VERTICAL INTERSECTION
CY	CUBIC YARD	PVT	POINT OF VERTICAL TANGENCY
DBL	DOUBLE	PVMT	PAVEMENT
DEMO	DEMOLISH	R	RADIUS
DIA	DIAMETER	RD	ROAD
E	EASTING	RH	RIGHT HAND
ELV	ELEVATION	RLD	ROCK LINED DITCH
EXIST	EXISTING	RT	RIGHT
FF	FINISHED FLOOR ELEVATION	ROW	RIGHT-OF-WAY
FL	FLOW LINE OF GUTTER	SCH	SCHEDULE
FT	FOOT/FEET	SDCBFI	STORMDRAIN CATCH BASIN FIELD INLET
FH	FIRE HYDRANT	SDCBMH	STORMDRAIN CATCH BASIN MANHOLE
HP	HIGH POINT	SE	SOUTHEAST
L	LENGTH	STA	STATION
LH	LEFT HAND	TBD	TO BE DETERMINED
LP	LOW POINT	TBM	TEMPORARY BENCH MARK
LT	LEFT	TC	TOP BACK OF CURB
LF	LINEAR FEET	T/O	TURNOUT
ME	MATCH EXISTING	T/R	TOP OF RAIL
MP	MILEPOST	T/T	TOP OF TIE
MSB	MATANUSKA-SUSITNA BOROUGH	U/G	UNDERGROUND
N	NORTHING	UON	UNLESS OTHERWISE NOTED ON PLANS
NE	NORTHEAST		

SYMBOL LEGEND

EXISTING (E)	PROPOSED (P)		EXISTING (E)	PROPOSED (P)	
		RECREATIONAL AREA AND WILDLIFE REFUGE BOUNDARY			RAIL SIGNAL
		CONTOURS			HYDRANT
		VALLEY GUTTER WITH DRAINAGE DIRECTION			WATER VALVE
		TRENCH DRAIN CATCH BASIN			BOLLARDS
		TRENCH DRAIN WITH DRAINAGE DIRECTION			CATCH BASIN
		DRAINAGE SWALE			STREET LAMP
		ROCK LINED DITCH			GAS METER
		STORM PIPE			ELECTRIC METER
		ENCASED STORM PIPE			ELECTRIC VAULT
		STORM SUBDRAIN PIPE (SOLID)			ELECTRIC MANHOLE
		STORM SUBDRAIN PIPE (PERFORATED)			JUNCTION BOX
		STORM DRAIN CLEANOUT W/ SWEEP DIRECTION			SANITARY SEWER MANHOLE
		DRAINAGE DIRECTION			VEGETATION
		STORM MANHOLE - AREA INLET (FLAT GRATE)			TRASH CAN
		STORM MANHOLE (SOLID LID)			CULVERT
		AC PAVEMENT (PLAN VIEW)			PIPE FLOW DIRECTION
		RECYCLED ASPHALT PAVEMENT (RAP)			RELOCATED SIGN W/ POST
		CONCRETE SURFACING (PLAN VIEW)			RAILROAD TRACKS
		MODULAR CROSSING PADS (PLAN VIEW)			RAILROAD TRACKS TO BE DEMOLISHED
		VEHICLE ACCESS (PLAN VIEW), SEE TYPICAL SECTIONS			ROAD
		AC PAVEMENT (SECTIONS)			UTILITY POLE
		LEVELING COURSE (SECTIONS)			SURVEY CONTROL POINTS
		TYPE II FILL MATERIAL (SECTIONS)			TOP OF RAIL ELEVATION (ON LEFT)
		PAVEMENT DEMOLITION			EXISTING GRADE ELEVATION (ON RIGHT)
		GUARD RAIL OR FENCE			ARRC MILEPOST
		SANITARY SEWER PIPE			FIBER OPTIC LINES
		WATER PIPE			BRIDGE
		UNDERGROUND ELECTRIC			
		OVERHEAD ELECTRIC			
		UNDERGROUND COMMUNICATIONS			
		UNDERGROUND FIBER OPTIC			
		SERVICE ISLAND (REFER TO SITE & ELECTRICAL SHEETS)			
		STORM PIPE OR STORM MANHOLE STRUCTURE NUMBER			
		SHEET NUMBER STRUCTURE APPEARS ON STORM PIPING SHTS.			
		P= PIPE			
		S= MANHOLE STRUCTURE			

GENERAL NOTE

EXISTING GROUND SHOWN IN PROFILE IS BASED ON A DIGITAL ELEVATION MODEL (DEM), AVAILABLE FROM THE US GEOLOGICAL SURVEY (USGS) AT: <http://edc2usgs.gov/geodata/index.php>.

CONCEPTUAL PLANS NOT FOR CONSTRUCTION	AUTHORED BY: TNH-HANSON, LLC	
	REV.	DATE BY
	REVISION	

CONCEPTUAL DESIGN PORT MACKENZIE TO EXISTING MAINLINE		
DESIGNED BY: DEM	SCALE: NONE	AFE NO.:
DRAWN BY: DEM	DATE: JANUARY 2008	ACAD FILE:
CHECKED BY: MAP		DWG NO. A2
APPROVED BY:		2 OF 48



SHEET TITLE

PLAN AND PROFILE, TERMINAL	T1	PLAN AND PROFILE, WILLOW	W1 - W11
PLAN AND PROFILE, MAC WEST	MW1 - MW4	PLAN AND PROFILE, HOUSTON	H1 - H4
PLAN AND PROFILE, MAC EAST	ME1 - ME4	PLAN AND PROFILE, HOUSTON NORTH	HN1 - HN3
PLAN AND PROFILE, CONNECTION 1	C1-1 - C1-2	PLAN AND PROFILE, HOUSTON SOUTH	HS1 - HS3
PLAN AND PROFILE, CONNECTION 2	C2-1 - C2-2	PLAN AND PROFILE, BIG LAKE	B1 - B8
PLAN AND PROFILE, CONNECTION 3	C3-1 - C3-2		

**CONCEPTUAL PLANS
NOT FOR CONSTRUCTION**

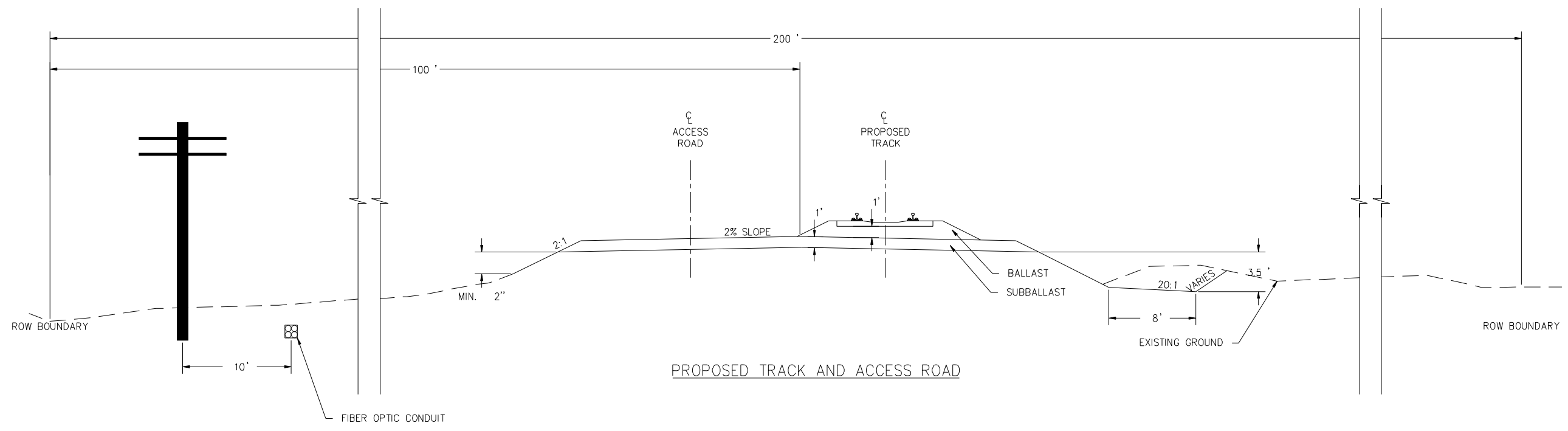
AUTHORED BY: TNH-HANSON, LLC			
REV.	DATE	BY	REVISION

ALIGNMENT	ARRC COMMUNICATION TOWERS TO BE CONSTRUCTED
ALL ALIGNMENTS	1
WILLOW	2 & 3
HOUSTON	2 & 4
BIG LAKE	5

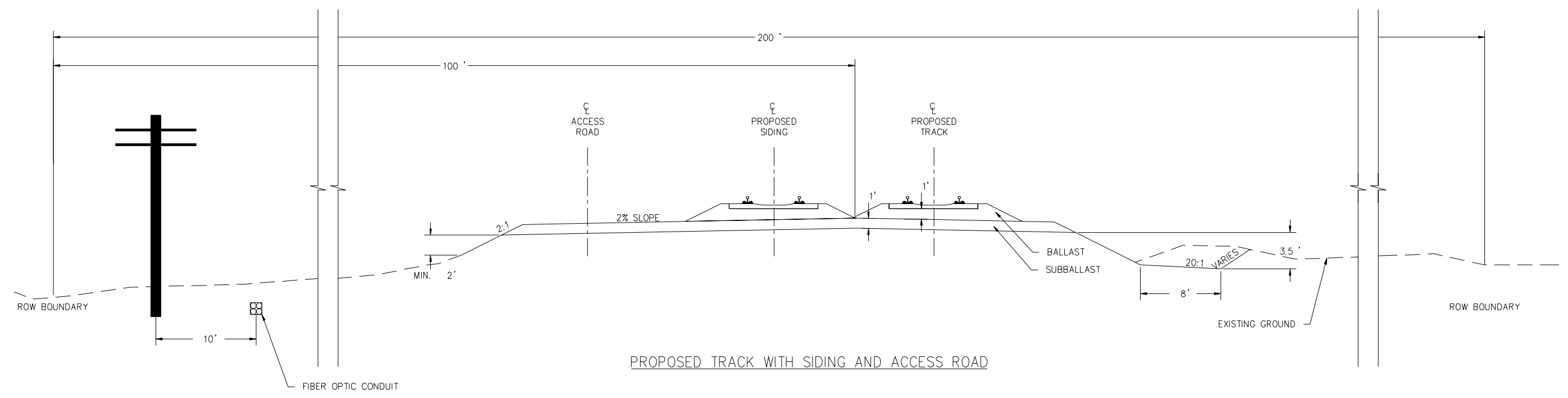


**PLAN AND PROFILE
MAP KEY**

DESIGNED BY: DEM	SCALE: NONE	AFE NO.:
DRAWN BY: DEM	DATE: JANUARY 2008	ACAD FILE:
CHECKED BY: MAP		DWG NO. A3
APPROVED BY:		3 OF 48



PROPOSED TRACK AND ACCESS ROAD



PROPOSED TRACK WITH SIDING AND ACCESS ROAD



**CONCEPTUAL PLANS
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REV.	DATE	BY

PORT MACKENZIE TYPICAL TRACK SECTIONS		
DESIGNED BY: MAP	SCALE: NONE	AFE NO.:
DRAWN BY: TGL	DATE: JANUARY 2008	ACAD FILE:
CHECKED BY: MAP		DWG NO. A4
APPROVED BY:		4 OF 48