

PROJECT AREA  
THIS CONTRACT



# MUNICIPALITY OF ANCHORAGE PROJECT MANAGEMENT AND ENGINEERING

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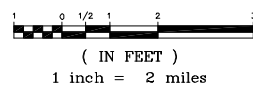
PM&E: SPENARD ROAD RECONSTRUCTION PHASE II,  
HILLCREST DRIVE TO BENSON BOULEVARD  
PM&E PROJECT NO. 03-22B

APPROVED BY:

J.W. HANSEN  
DIRECTOR

KENT KOHLHASE, P.E.  
ACTING MUNICIPAL ENGINEER

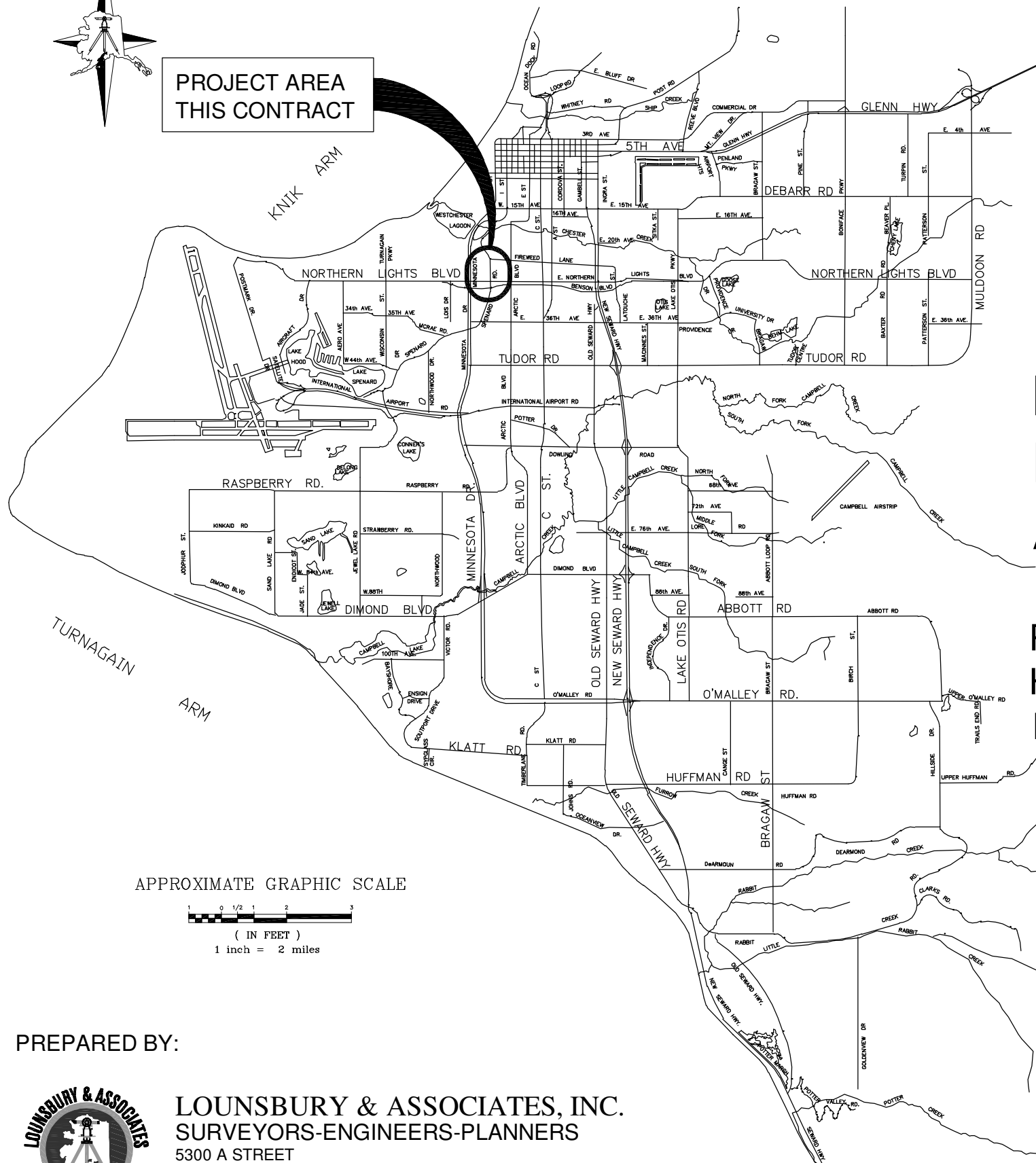
APPROXIMATE GRAPHIC SCALE



PREPARED BY:



**LOUNSBURY & ASSOCIATES, INC.**  
SURVEYORS-ENGINEERS-PLANNERS  
5300 A STREET  
ANCHORAGE, ALASKA 99518  
CERTIFICATE OF AUTHORIZATION NO. AECC391



# LEGEND

PLAN	
--- ROW ---	EXISTING ROW LINE
-----	EXISTING PROPERTY LINE
- - - - -	EXISTING EASEMENT LINE
-----	TCP
⊕	EXISTING MONUMENT
○	PROPERTY CORNER
— W —	EXISTING & PROPOSED WATER
— SS —	EXISTING SANITARY SEWER
— SD —	EXISTING & PROPOSED STORM DRAIN
— SO —	PROPOSED LINED STORM PIPE
— T —	EXISTING TELEPHONE
— G —	EXISTING UNDERGROUND GAS
— UGE —	EXISTING UNDERGROUND ELECTRIC
— OHE —	EXISTING OVERHEAD ELECTRIC
— TS —	EXISTING TRAFFIC SIGNAL
⊙ G.P.	EXISTING GUY POLE
⊙	EXISTING GUY ANCHOR
⊙	EXISTING UTILITY POLE
⊙ LG	EXISTING AND PROPOSED LIGHT POLE
⊙	EXISTING LAMP POST
⊙	EXISTING ELECTRICAL RISER
⊙	EXISTING ELECTRICAL MANHOLE
⊙	EXISTING ELECTRICAL TRANSFORMER
⊙	EXISTING ELECTRIC METER
⊙	EXISTING UNDERGROUND TELEPHONE PEDESTAL
⊙ BSL	PROPOSED BSL
⊙ COL	PROPOSED COL
⊙	EXISTING GAS METER
⊙	EXISTING TANK VENT
⊙	EXISTING WATER VALVE
⊙	EXISTING FIRE HYDRANT
⊙ WELL	EXISTING WELL
⊙	EXISTING WATER PUMP
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING SEWER SERVICE CONNECT
⊙	EXISTING SEWER CLEANOUT
⊙ C.O.	EXISTING CLEANOUT
⊙	EXISTING AND PROPOSED STORM DRAIN MANHOLE
⊙	EXISTING AND PROPOSED CATCH BASIN
⊙	PROPOSED CATCH BASIN MANHOLE
⊙	EXISTING TRAFFIC SIGNAL LIGHT
⊙	EXISTING TRAFFIC SIGNAL CONTROL BOX
⊙	EXISTING TYPE I JUNCTION BOX
⊙	EXISTING TYPE II JUNCTION BOX
49+00	CONSTRUCTION
---	EXISTING & PROPOSED EDGE OF PAVEMENT
---	EXISTING & PROPOSED CURB AND GUTTER
---	PROPOSED DRIVEWAY
---	EXISTING EDGE OF GRAVEL
---	EXISTING GUARDRAIL
---	EXISTING STRIPING
---	EXISTING SKIP STRIPING
---	EXISTING CURB
---	EXISTING SIDEWALK
---	EXISTING WALL
---	EXISTING FENCE
---	EXISTING BUSH
---	EXISTING TREE
---	EXISTING AND PROPOSED STREET SIGNS
---	EXISTING PRIVATE SIGN
---	EXISTING POST
---	EXISTING TRASH CAN
---	EXISTING PLANTER
---	EXISTING FLAG POLE

# SHEET INDEX

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- TS1-TS2 TYPICAL SECTIONS
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- SI1-SI7 SITE IMPROVEMENTS
- G1-G41 GRADING & PAVING
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## COMMON ABBREVIATIONS

AC	ASPHALTIC CONCRETE	L#	LINE NUMBER
AD	ALGEBRAIC DIFFERENCE	LT	LEFT OF CENTERLINE
BM	BENCH MARK	MH	MANHOLE
BOP	BOTTOM OF PIPE	MON	MONUMENT
	BEGINNING OF PROJECT	N.B.	NORTHBOUND
BVC	BEGIN VERTICAL CURVE	PC	POINT OF CURVATURE
C#	CURVE NUMBER	PCC	POINT OF COMPOUND CURVATURE
C&G	CURB AND GUTTER		PORTLAND CEMENT CONCRETE
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CL	CLASS	PL	PROPERTY LINE
CL	CENTERLINE	PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	PVI	POINT OF VERTICAL INTERSECTION
CPEP	CORRUGATED POLYETHYLENE PIPE	R&R	REMOVE AND REPLACE
DIP	DUCTILE IRON PIPE	ROW	RIGHT-OF-WAY
EL	ELEVATION	RP	RADIUS POINT
EOP	EDGE OF PAVEMENT	RT	RIGHT OF CENTERLINE
	END OF PROJECT	S	SLOPE
EVC	END VERTICAL CURVE	S.B.	SOUTHBOUND
EX	EXISTING	SI	STREET INTERSECTION
F&I	FURNISH AND INSTALL	ST	STREET
FF	FINISHED FLOOR	STA	STATION/STATIONING
FG	FINISH GRADE	TBC	TOP BACK OF CURB
GB	GRADE BREAK	TCP	TEMPORARY CONSTRUCTION PERMIT
GV	GATE VALVE	TI	TOP INTAKE
IAW	IN ACCORDANCE WITH	VB	VALVE BOX
INV	INVERT	VC	VERTICAL CURVE

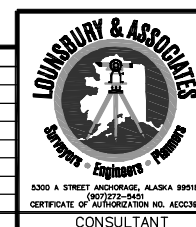
# LEGEND

PROFILE	
---	EXISTING
0.50%	PROPOSED GRADE AT CL OF PAVEMENT
---	EXISTING AND PROPOSED PIPE
---	EXISTING AND PROPOSED MANHOLE
---	EXISTING AND PROPOSED INLET
---	APPROXIMATE LOCATION OF SHALLOW UTILITY
T	TELEPHONE/CABLE
E	ELECTRIC
G	GAS

# CONSTRUCTION NOTES

- All construction shall be completed in accordance with the 2015 Municipality of Anchorage Standard Specifications, Streets – Drainage – Utilities – Parks, (MASS), as amended.
- Utility locations shown on the Drawings are not exact. The Contractor shall obtain utility locates at least 48 hours prior to commencing work. The Contractor shall also verify exact locations of buried utilities in the field per the specifications and record any changes on the Contractor's record drawings.
- Existing electric, cable television, telephone, street light, traffic signal, and gas lines in the work area may require continuous support and/or relocation during excavation and backfilling operations. During the course of the work, utility companies may relocate some of their existing facilities. Refer to the Special Provisions for additional information. The Contractor shall coordinate work with each utility company.
- All existing and proposed sewer and water utility facilities, such as manholes, water valve boxes, and cleanouts within the construction limits shall be adjusted to finish grade. The Contractor shall schedule a pre-construction inspection with AWWU to verify the condition of existing utilities prior to beginning the work.
- All structural fill and trench backfill shall be compacted to 95% of maximum density at optimum moisture content.
- All organics are to be removed from the road prism.
- Curb stationing, offsets and dimensions shown on the drawings are measured to top back of curb (TBC), unless otherwise noted.
- All storm drain pipes and catch basin leads shall be insulated (R-11) when the depth of cover is less than four feet per MASS details 20-8, 20-9 and specifications.
- In preparation for and immediately prior to paving, the Contractor shall remove an additional one foot from existing pavement edge. The Engineer may require more than one foot additional cut if the existing pavement has been lifted in the removal process, if the joint does not occur on undisturbed material, or if the joint is located within the travel lane. Cuts may be made with a saw or air chisel. Tack coat shall be applied to all joints. Reference MASS detail 40-2.
- Contractor shall restore property disturbed by contract activity to the preconstruction condition.
- Shoring of utility poles, pads & pedestals, load centers & other equipment is incidental to the contract and no separate payment shall be made.
- The Contractor shall provide record survey notes for submittal with the record drawings. Contractor shall record the horizontal and vertical locations of all utilities encountered in the field on the Contractor's As-Built plans.
- The Contractor shall obtain all necessary permits prior to beginning construction. The permits shall be maintained on the project site.
- All stationing is construction centerline unless otherwise noted. See survey control drawings for horizontal and vertical control.
- Topsoil (4") and seed all disturbed areas. See landscaping sheets for additional details.
- Manhole locations are identified by station and offset from road centerline to center of structure. Pipe lengths are measured from center to center of structures. Pipe slopes are determined by measuring between inside face of structures.
- Catch basin locations are identified by station and offset from construction centerline to top back of curb.
- Water resulting from Contractor's dewatering efforts may not be pumped or otherwise diverted into existing storm drains unless required permits, including but not limited to, the Alaska Department of Environmental Conservation and Environmental Protection Agency, are obtained by Contractor. Under no circumstances will Contractor be allowed to divert water from the excavation onto roadways. Contractor shall provide disposal site for excess water and shall be responsible for providing all copies of required permits and approvals to the MOA ROW Permit Office.
- All improvements on private property are contingent upon property owner approval and final ROW negotiations.

REV	DATE	DESCRIPTION	BY



65%



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
SCHEDULE A & D	PM&E PROJECT NO. 03-22B	SPENARD ROAD RECONSTRUCTION PHASE II, HILLCREST DRIVE TO BENSON BOULEVARD	
<b>LEGEND &amp; NOTES</b>			
SCALE: 1" = 100'	DATE: JANUARY 2016	GRIDS: SW1529, 1629	SHEET 2 of 2
ACCT. NO. 05-037G			