Edward Street Permanent Radar Speed Signs

INVITATION TO BID NO. 2023C009



Municipality of Anchorage
Public Works Department
Project Management & Engineering
PO Box 196650
Anchorage, AK 99519

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MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS 22-24

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MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

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INVITATION TO BID

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MUNICIPALITY OF ANCHORAGE PURCHASING DEPARTMENT

Invitation to Bid

No. 2023C009

Sealed bids will be received in accordance with the time schedule shown below by the Municipality of Anchorage at the Purchasing Department, 632 W. 6th Ave., Suite 520, Anchorage, Alaska 99501 for:

Edward Street Permanent Radar Speed Signs

The Work that is presented in the Bid Proposal for this Contract consists of approximately 3 Radar Speed Signs; 3,520 L.F. of Conductor; Load Center Modifications; 20 L.F. of Curb and Gutter Removal and Replacement; 25 Tons of A.C. Pavement Class E; and other related work.

ESTIMATED CONSTRUCTION COST: Between: \$100,001 - \$500,000

Site Visit: N/A

Pre-Bid Conference: N/A

Questions Due: 12:00 P.M. Local Time, March 16, 2023

Bid Opening: 2:00 P.M. Local Time, March 30, 2023

All Pre-Bid Conferences and/or Bid Openings may be attended in person or via conference call at this number (907) 343-6089. You may call in five (5) minutes before any scheduled conference. EMAILED BIDS WILL NOT BE ACCEPTED.

ALL QUESTIONS SHALL BE SUBMITTED PRIOR TO THE QUESTION DUE DATE THIS WILL BE THE FINAL OPPORTUNITY TO ASK QUESTIONS OR REQUEST CLARIFICATIONS.

To maintain the project schedule, Interpretations, corrections, or changes to the Bidding Documents shall be made by Addendum and shall not be binding unless included in the Addendum. It is your responsibility to periodically check the website for addenda.

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Municipality of Anchorage

ITB: 2023C009

At the above indicated time, the bids will be opened publicly and read. Bids must be received by the Purchasing Officer prior to the time fixed for opening of the bids to be considered. Time of receipt will be as determined by the time stamp in the Purchasing Office, Suite 520.

The Municipality of Anchorage reserves the right to reject any and all bids and to waive any informalities in the bids. No bidder may withdraw his bid after the hour set for the opening of bids or before the award of contract unless said award is delayed for a period exceeding forty-five (45) days from the time of the opening.

The Municipality shall not be responsible for bid preparation costs, nor for costs, including attorney fees, associated with any (administrative, judicial or otherwise) challenge to the determination of the lowest responsive and responsible bidder and/or award of contract, and/or rejection of bids. By submitting a bid, each bidder agrees to be bound in this respect and waives all claims to such costs and fees.

Contracts shall be awarded by written notice issued by the Purchasing Officer to the lowest responsive and responsible bidder; however, preference will be given to local bidders in compliance with Anchorage Municipal Code Section 7.20.040.

The Municipality of Anchorage assumes no responsibility for any interpretations or presentations made by any of its officers or agents unless such interpretations or presentations are made by written addendum to this Invitation to Bid.

Bonding Requirements are per MASS/MASS B or as per special provisions.

THE MUNICIPALITY OF ANCHORAGE IS AN "EQUAL OPPORTUNITY EMPLOYER"

PUBLISH ONE TIME

Date: March 13, 2023

Senior Buyer Assigned to this Project: Jared Brunelle

Chris Hunter

Chris Hunter
Deputy Purchasing Director

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MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

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SPECIAL PROVISIONS

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MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

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MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

SPECIAL PROVISIONS

SECTION 95.01 LOCATION AND SCOPE

All proposed Work is located within the Municipality of Anchorage corporate limits and is more particularly located at Ptarmigan Elementary School, see Drawings for detailed locations. The Work included under this Contract consists of furnishing all labor, materials, equipment, supervision, and other facilities necessary to successfully complete the Work set forth in the Drawings and Specifications. The Work included under this Contract consists of, but is not limited to:

- Three proposed radar speed signs on Edward Street.
- Associated paving, curb and gutter, sidewalk, pathway, signing and striping, and electrical improvements.

It is the responsibility of the bidder to prepare the bid so that all materials and/or fittings shall harmoniously conform to the intent of the Contract Drawings, Specifications, and Special Provisions.

SECTION 95.02 REFERENCE TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS

This Contract is subject to and hereby incorporates by reference the Municipality of Anchorage Standard Specifications, dated 2015, hereinafter referred to as M.A.S.S.; APDES Permit AKS-052558; the Alaska Sign Design Specifications (ASDS) as adopted and amended by the Municipality; the Municipality of Anchorage Sign Manual; the Alaska Traffic Manual (ATM)-Manual on Uniform Traffic Control Devices (MUTCD) 2009 Edition, with the Alaska supplement, dated 1/13/12; the National Electrical Safety Code (NESC) as amended and adopted by the Municipality; the National Electrical Code as amended and adopted by the Municipality of Anchorage; and the Edition of the Standard Specifications for Structural Supports for Highway Sign, Luminaires and Traffic Signals provided in the appropriate divisions. When conflicts exist between M.A.S.S. and MUTCD, the requirements of M.A.S.S. and these Special Provisions shall govern.

SECTION 95.03 TIME OF COMPLETION

This Project shall be completed within thirty (30) calendar days after the Notice-to-Proceed is issued.

SECTION 95.04 MODIFICATIONS AND/OR ADDITIONS TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS

The following listed provisions of M.A.S.S. are amended as hereinafter stated:

A. DIVISION 10 STANDARD GENERAL PROVISIONS

Add the following Section:

SECTION 10.00 ALL APPLICABLE M.A.S.S. ARTICLES

Delete all references to and requirements for compliance with Anchorage Municipal Code Chapter 7.60 the Disadvantaged/Women Owned Business (DBE/WBE) program and specifications.

SECTION 10.03 AWARD AND EXECUTION OF CONTRACT

Article 3.4 Action on Bids

Delete the last paragraph and replace with the following:

Unless otherwise specified in the Invitation to Bid, Notice of Award or rejection shall be given within Sixty (60) days of Bid opening. The notice shall be in writing and signed by the Purchasing Officer or authorized designee. A Notice of Award shall constitute an acceptance of the Bid. No other act(s) of the Municipality or its representatives shall constitute an acceptance of a Bid. The acceptance of a Bid shall bind the successful Bidder to execute the Contract.

SECTION 10.04 SCOPE OF WORK

Article 4.12 Public Convenience and Access

Add the following:

Regular School Session

The Contractor is hereby notified that Ptarmigan Elementary school will commence pre-session faculty operations on August 14, 2023, and will begin full time operations on August 17, 2023. Contacts: Ptarmigan Elementary School Principal – Kelly Ramey, Phone number - 742-0400.

With the commencement of the pre-session faculty operations, the Contractor should expect an increase of automobile traffic to and from the school, and should take that increase into account when complying with this Article and Article 4.13 – Traffic Control Plan for street closures. At the commencement of pre-session operation, all work adjacent to Ptarmigan Elementary shall be substantially complete.

With the commencement of full-time operations, the Contractor should expect school bus operations to and from Ptarmigan Elementary School between 8:30 a.m. - 9:30 a.m. and 3:00 p.m. - 4:00 p.m.

Moreover, during full time school operations, because of the presence of student pedestrians, the Contractor shall take special precautions when working between 8:30 a.m. - 9:30 a.m. and 3:00 p.m. - 4:00 p.m., Monday through Friday. Special precautions may include detouring the student pedestrians from the worksite or the provision of a crossing guard/escort for the pedestrians. The Contractor shall have an affirmative duty to coordinate the required plan under this Article, and plan under Article 4.13 – Traffic Control Plan, with Ptarmigan Elementary School Officials.

Should the Contractor, during periods of heavy student pedestrian/vehicle flows, elect to suspend construction operations, the Contractor shall ensure that all appropriate safety measures are implemented for the protection of the public, no matter how short the suspension of work.

Beginning August 17, 2023 the Contractor's road and lane closure on Edward Street from E 8th Avenue to Markstrom Drive will be prohibited during the following hours on Monday thru Friday:

8:30 a.m. - 9:30 a.m.

3:00 p.m. - 4:00 p.m.

Summer School Session

The Contractor is hereby notified that Ptarmigan Elementary School may commence school sessions for summer 2023. The Contractor shall coordinate summer school session dates and hours with the school principal prior to beginning construction. The Contractor shall follow the Regular School Session requirements outlined in this Article for the half hour before and half hour after the beginning and ending of summer session daily hours, Monday through Friday.

Article 4.17 Utilities

C. Gas

Add the following paragraphs:

The Contractor shall download and follow the most current construction guidelines published by ENSTAR. Those guidelines can be downloaded from:

https://www.enstarnaturalgas.com/safety-for-excavators-contractors/

Click on the link in the last sentence of the first paragraph.

The Final Rule from the PHMSA website can be obtained from:

https://www.phmsa.dot.gov/pipeline/excavator-final-rule/about-excavation-enforcement-final-rule

Click on the "Final Rule on Excavation Damage 80 FR 43836 Final Rule" link.

D. Electrical and Telecommunications

Add the following paragraphs:

The Contractor shall download and follow the most current construction guidelines published by Chugach Electric Association. Those guidelines can be downloaded from:

http://www.chugachelectric.com/media-room/publications-request

Click on the link titled "Electrical Facility Clearance Requirements".

The following contact information is provided as a courtesy to the Contractor and is the most currently available.

Alaska Communication Systems (ACS) North ANC – Francisco Martin, 907-564-1785 or 907-231-7369

Alaska Communication Systems (ACS) South ANC – Duilio Guerrero, 907-564-1522

Anchorage Water & Wastewater Utility (AWWU) – Shawn Dooley, 907-564-2786

AT&T – Mike Barsalou, 907-264-7325

Chugach Electric Association (CEA) – Victor Willis, 907-230-7536

ENSTAR Natural Gas – Stan Staples, 907-334-7777

GCI – Steven Cranford, 907-868-6769

Municipal Street and Storm Drain Maintenance – Eric Hodgson, 907-343-8100

Municipal Street Light Maintenance – Eric Hodgson, 907-343-8100

Municipal Traffic Signals Section – Levi Piehl, 907-343-8363

Solid Waste Services (SWS) – Evalu Filitaula, 907-343-6258 or 907-317-6863

Matanuska Electric Association (MEA) – John Foutz, 907-761-9265

Matanuska Telephone Assoc. (MTA) – Robbie Nash, 907-761-2704 or 907-355-1687

Eagle River Street & Storm Drain Maintenance – Mark Littlefield, 907-343-1512

Alaska Waste – Josh James, 907-688-4446

Add the following Articles:

Article 4.22 Project Information Signs

Prior to beginning of any work on the project, Contractor shall install one (1) project information sign(s) (combination owner and contractor supplied materials), in accordance with Section 70.12, Article 12.7 - Traffic Control Devices, in a location directed by the Engineer. The Owner supplied project information signs shall be available for pick up at 5701 Northwood Drive, Monday thru Thursday from 8:00 a.m. to 4:00 p.m. Contact Paul VanLandingham at 343-8372 (office) or 317-7054 (cell) to coordinate pickup.

Owner-supplied materials are as follows:

 Project Information Sign - one (1) 4'x8'x³/₄" MDO wood sign Project Name, Project No. 22-24.

Contractor provided materials are as follows:

- Sign Frame one (1) 2"x4" lumber pre-assembled in a rectangular shape measuring 4-foot by 8-foot
- Post Skids assembled, two (2) EA 4"x6" lumber standing vertical 8-foot in height, with 8-foot base attached with a 3/4" plywood gusset between the 2 vertical pieces.

Assembly shall be constructed per Appendix A Project Information Sign(s) detail. Once assembled and positioned as directed by the Engineer, the Contractor shall supply and secure each post skid with two (2) each 60-pound sand bags, or provide equivalent anchoring system as approved by the Engineer. The Contractor shall be responsible for maintaining placement and possible location adjustment if required per the Engineer, and for overall maintenance of the signs.

Following final completion of the project, Contractor shall disassemble the signs and return the owner-provided materials to 5701 Northwood Drive. Contact Paul VanLandingham at 343-8372 (office) or 317-7054 (cell) to coordinate drop-off.

All Work in this Article shall be considered incidental to the project.

SECTION 10.05 CONTROL OF WORK

Article 5.27 Liquidated Damages

Add the following paragraph:

The Owner may withhold from any progress payment the sum of \$500 per day as Liquidated Damages for each and every calendar day that the Substantial Completion Date is delayed beyond the Contract Completion Date. The Owner may withhold out of any progress payment the sum of \$250 per day as Liquidated Damages for each and every calendar day that the Final Acceptance Date is delayed beyond the Contract Completion Date. If no money is due Contractor, the Owner will have the right to recover said sums from Contractor, the Surety, or both.

SECTION 10.06 LEGAL RELATIONS AND RESPONSIBILITIES

Article 6.1 Laws to be Observed

Add the following paragraph:

Owner is not aware of any contaminated material within the project limits. If such material is encountered, Contractor shall notify the Engineer immediately for direction. This will be treated as a changed condition, unless the contamination was caused by Contractor's operation.

Article 6.8 Safety

Add the following paragraphs at the end of this Article:

The Governor's emergency declaration and mandates relating to COVID-19 expired on February 14, 2021. However, contractors are encouraged to review COVID-19 Response and Recovery Health Advisories that can be accessed at:

https://covid19.alaska.gov/health-advisories/

The Municipality of Anchorage emergency orders currently in effect can be accessed at:

https://covid-response-moa-muniorg.hub.arcgis.com/pages/emergency-orders

Contractors will still be required to meet any applicable local ordinances or requirements currently in effect, and comply with any future federal, state or local declarations or mandates that might be adopted while work on the project is ongoing. Consistent with this Section, the Contractor will be responsible for paying all costs and expenses incurred to comply with any COVID-19 Health Mandates or Health Advisories in effect during times when the Contractor is performing project-related work activities. The Contractor will additionally be responsible for preparing any general or site-specific mitigation and response plans required for its forces, along with any associated schedule delays or impacts.

B. DIVISION 20 STANDARD CONSTRUCTION SPECIFICATIONS FOR EARTHWORK

SECTION 20.05 CLEARING

Article 5.1 General

Replace Article 5.1 General with the following:

The Work under this section consists of removing branches, limbs, and other brush as needed to ensure visibility of signs as directed by the Engineer. All removed branches, limbs, and brush shall be disposed of at a Contractor-provided disposal site. Clearing activities should not disturb the ground vegetation. Clearing activities shall not extend outside the ROW.

Article 5.2 Construction

Replace the first sentence of A. Clearing for Multi Use Paths with the following:

Overhanging limbs shall be pruned to provide a four foot (4') clear corridor on both sides of the pathway with a twenty foot (20') clearance above the finished trail.

Add the following paragraph:

The Contractor shall protect migratory bird habitat in compliance with the most current version of the "Construction Advisory for Protecting Migratory Birds (pdf)" handout located at https://www.fws.gov/alaska/mbsp/mbm/index.htm. Additionally, Contractor shall notify the Engineer immediately if any active nests are found at any time during construction of the project.

SECTION 20.09 REMOVAL OF PAVEMENT

Article 9.2 Construction

Delete the second paragraph and replace with the following:

Contractor shall keep all asphalt surfacing designated for removal free from objectionable material (concrete, steel, etc.). Contractor shall deliver all asphalt surfacing that does not contain objectionable material to Street Maintenance. Contractor shall coordinate exact location and time of delivery with the Maintenance & Operations Department, Street Maintenance Division, at 343-8102. If the removed asphalt surfacing, under this Section, contains objectionable material, as identified by the Engineer, Contractor shall dispose of this asphalt surfacing in accordance with Division 10, Section 10.04, Article 4.9 – Disposal Sites.

SECTION 20.21 CLASSIFIED FILL AND BACKFILL

Article 21.2 Material

Add the following paragraph after the second paragraph:

Crushed waste glass (cullet) may be combined with soil-aggregate material and used in Type II or Type II-A classified fill and backfill. If glass cullet is incorporated, classified fill and backfill shall contain not more than ten percent (10%) by weight glass cullet smaller than three-eights-inch (3/8"). Contractor shall ensure that glass cullet is uniformly blended with natural soil aggregate material prior to project delivery and placement. Glass cullet must conform to the specifications in Sub-Article G – Glass Cullet of this Article. In addition to the normal gradation documentation for classified fill or backfill, when glass cullet is used the Contractor shall provide documentation certifying that the glass cullet (1) is comprised only of eligible types of glass, (2) does not contain prohibited materials, (3) meets debris content requirement, and (4) meets blending percentage requirement to the Engineer prior to placement of the material.

Add the following Sub-Article G:

G. Crushed Waste Glass (Cullet)

Glass cullet shall be free of prohibited or hazardous substances and the cullet shall contain no more than two percent (2.0%) debris as determined in AASHTO M318.

Eligible glass products from which glass cullet may be produced include:

- food and beverage container glass;
- plain ceramic or china dinnerware; and
- building window glass.

Prohibited glass products include:

- automobile windshields or other glass from automobiles;
- light bulbs of any type;
- porcelain products;
- laboratory glass; or
- television, computer, or other cathode ray monitor tubes.

Article 21.3 Construction

Add the following after the last paragraph:

Contractor shall not use classified fill and backfill incorporating glass cullet:

- within four feet (4') from the face of any embankment slope;
- within one hundred and fifty feet (150') of any surface water body;
- in embankment areas where culvert placement is required;
- in contact with any geotextile or geo-synthetic material; or
- in any soil-aggregate base or subbase courses that are not covered by surfacing material.

Article 21.4 Measurement

Add the following after the last paragraph:

Use of glass cullet is incidental to the bid item Classified Fill and Backfill and no additional payments shall be made.

SECTION 20.22 LEVELING COURSE

Article 22.2 Material

Add the following paragraphs after the second paragraph:

Crushed waste glass (cullet) may be combined with soil-aggregate material and used in leveling course. If glass cullet is incorporated, leveling course shall contain not more than ten percent (10%) by weight glass cullet smaller than three-eights-inch (3/8"). Contractor shall ensure that glass cullet is uniformly blended with natural soil aggregate material prior to project delivery and placement. Glass cullet must conform to the specifications in Sub article G – Glass Cullet of this Article. In addition to the normal gradation documentation for classified fill or backfill, when glass cullet is used the Contractor shall provide documentation certifying that the glass cullet (1) is comprised only of eligible types of glass, (2) does not contain prohibited materials, (3) meets debris content requirement, and (4) meets blending percentage requirement to the Engineer prior to placement of the material.

Upon written approval by the Engineer, recycled concrete aggregate (RCA) may be substituted for leveling course, on an inch for inch basis. RCA shall conform to this specification.

Add the following Sub-Articles:

D. Crushed Waste Glass (Cullet)

Glass cullet shall be free of prohibited or hazardous substances and the cullet shall contain no more than two percent (2.0%) debris as determined in AASHTO M318.

Eligible glass products from which glass cullet may be produced include:

- food and beverage container glass;
- plain ceramic or china dinnerware; and
- building window glass.

Prohibited glass products include:

- automobile windshields or other glass from automobiles;
- light bulbs of any type;
- porcelain products;
- laboratory glass; or
- television, computer, or other cathode ray monitor tubes.

E. Recycled Concrete Aggregate

RCA shall consist of a manufactured aggregate material and natural aggregate particles derived from the crushing, processing and classification of Portland cement concrete construction debris recovered from roadways, sidewalks, building, bridges and other sources, which conforms to AASHTO M-319 - Reclaimed Concrete Aggregate for Unbound Soil-Aggregate Base Course, and this specification. This material shall not contain deleterious substances in excess of the following amounts by mass-weight:

| Deleterious Material | By weight |
|--------------------------------------|-----------|
| Bituminous concrete materials | 5% |
| Brick or concrete masonry unit block | 5% |
| Solid waste or hazardous materials | 0% |
| Wood, metal, plaster, gypsum | 0.1% |

Both Coarse and Fine Aggregate shall conform to this specification and the quality requirements from AASHTO M-147 - Materials for Aggregate and Soil-Aggregate Subbase, Base, and Surface Courses. Additionally RCA shall have a minimum of seventy percent (70%) of particles with one or more mechanically fractured faces when the RCA is tested in accordance with AASHTO TP-61.

The Maximum Moisture Content is four percent (4.0%) for RCA.

The RCA Liquid Limit shall not exceed 35 when tested in accordance with AASHTO T-89 and the Plasticity Index of the fraction of RCA passing the No. 40 sieve shall not exceed 6 when tested in accordance with AASHTO T-90.

In accordance with ASTM 306, the percent of flat and elongated pieces in RCA shall not exceed eight percent (8%).

Restrictions to Use of Recycled Concrete Aggregate: RCA shall not be placed over a geotextile layer, gravel drain fields, drain field piping, subdrains, or open soil-lined stormwater retention or detention facilities, because soluble minerals rich in calcium salts and calcium hydroxide can be hydraulically transported from the recycled concrete aggregate. RCA is not approved for use within five feet (5') of metal culverts due to its high alkalinity and because recycled concrete aggregate in contact with aluminum or galvanized steel pipes can cause corrosion in the presence of moisture.

Article 22.3 Construction

Insert the following paragraph at the end of Sub Article C. Placing:

If used, any portion of the RCA which becomes segregated and/or develops zones of paste or crushed conglomerates during the distribution/compaction process shall be corrected by the Contractor. This correction process shall be conducted full depth and continue until the on-grade RCA meets this specification. The Engineer reserves the right to sample (or resample) the RCA for acceptance after it has been placed, watered and compacted.

Add the following Sub-Article F:

F. Crushed Waste Glass (Cullet)

Contractor shall not use leveling course incorporating glass cullet:

- within four feet (4') from the face of any embankment slope;
- within one hundred and fifty feet (150') of any surface water body;
- in embankment areas where culvert placement is required;
- in contact with any geotextile or geo-synthetic material; or
- in any soil-aggregate base or subbase courses that are not covered by surfacing material.

Article 22.4 Measurement

Remove the first sentence and replace with the following:

The leveling course shall be measured in tons of materials delivered and placed in accordance with these Specifications and adjusted for excess moisture as provided.

Add the following after the last paragraph:

Use of glass cullet and/or RCA is incidental to the bid item Leveling Course and no additional payments shall be made.

C. DIVISION 40 STANDARD CONSTRUCTION SPECIFICATIONS FOR ASPHALT SURFACING

SECTION 40.01 GENERAL

Add the following Article:

Article 1.7 Asphalt Price Adjustment

This provision provides a price adjustment for asphalt cement material by:

- 1. an increase to the contract amount, or
- 2. a deduction from the contract amount.

The provision shall apply to asphalt concrete pavement which:

- is a major bid item as defined in M.A.S.S. Division 10, Section 10.04, Article
 4.5 Increased Quantities;
- is placed in the second or later year of the contract;
- conforms to M.A.S.S. Division 40, Section 40.06 Asphalt Concrete Pavement: and
- is paid pursuant to M.A.S.S. Division 40, Section 40.06 Asphalt Concrete Pavement and Section 40.07 Stone Mastic Asphalt Concrete Pavement.

This provision shall only apply to cost changes in the asphalt cement material that occurs between the date of bid opening and the date the asphalt material is incorporated into the project.

The asphalt price adjustment shall only apply when there is more than a seven and one-half percent (7.5%) increase or decrease in the Alaska Asphalt Material Price Index from the date of the bid opening to the date the asphalt material is incorporated into the project.

As used in this Article, the Alaska Asphalt Material Price Index is calculated bimonthly on the first and third Friday of each month, and will remain in effect from the day of calculation until the next bi-monthly calculation. The Alaska Asphalt Material Price Index is posted on the ADOT&PF's Statewide Materials website, and is calculated according to the formula posted therein.

The Asphalt Price Adjustment (APA) payment is cumulative and is calculated with each progress payment. Asphalt material price index in effect on the last day of the pay period is used to calculate the price adjustment for asphalt cement material incorporated into the project during that pay period. The Municipality will increase or

decrease payment under this contract by the amount determined with the following asphalt cement material price adjustment formula:

APA {price increase}* =
$$[(\pm IPP \mp IB) - (0.075 * IB)] *Q * % AC$$

Where,

- **Q** = quantity of asphalt concrete pavement incorporated into the project during the pay period, in tons, and documented by weight tickets;
- **IB** = Index at bid: the bi-monthly Alaska asphalt material price index in effect on date of bid, in dollars per ton;
- IPP = Index at Pay Periods: the bi-monthly Alaska asphalt material price index in effect on the last day of the pay period, in dollars per ton; and
- **%AC** = percentage asphalt cement content in the asphalt concrete pavement, as determined by the average asphalt cement content in project's asphalt concrete quality control testing.

Method of measurement for determining quantity, Q, is the weight of asphalt concrete pavement material that conforms to M.A.S.S. Division 40, Section 40.06 – Asphalt Concrete Pavement and is incorporated into the project.

No asphalt price adjustment will be paid based on estimated quantities.

Contingent Sum payment shall be made on the following basis:

The final asphalt price adjustment on a project is the aggregate of the price adjustments paid on a project's respective progress pay estimates, i.e.,

$$APA = APA_1 + APA_2 + + APA_n$$

Where n = partial payment estimate number.

^{*} Note: a negative price adjustment (APA) results in a price reduction to the Contract.

D. DIVISION 70 STANDARD CONSTRUCTION SPECIFICATIONS MISCELLANEOUS

SECTION 70.12 TRAFFIC MAINTENANCE

Amend the following Article:

Article 12.6 Public Notice

Delete the first paragraph, inclusive of the list of local officials and transportation organizations, and replace with the following:

The Work Site Traffic Supervisor shall give notices of changes, delays, or lane/road closures to the following local officials and transportation organizations including, but not limited to:

| 1. | Anchorage Chamber of Commerce | 907-272-2401 |
|-----|------------------------------------|-------------------|
| 2. | Alaska Travel Industry Association | 907-929-2842 |
| 3. | Alaska Trucking Association | 907-276-1149 |
| 4. | Alaska State Troopers | 907-428-7200 |
| 5. | Alaska Court System | 907-264-8232 |
| 6. | Anchorage Police Department | 907-786-8500 |
| 7. | Anchorage Fire Department | 907-267-4950 |
| 8. | Local Emergency Medical Services | 907-267-4950 |
| 9. | Anchorage Public Transportation | 907-343-8253/8386 |
| 10. | ASD Pupil Transportation | 907-742-1207 |
| 11. | U.S. Postal Service | 907-266-3261 |
| 12. | MOA Parks and Recreation | 907-343-4297 |
| 13. | Local Schools and Universities | Varies |
| 15. | Alaska Waste | 907-563-3717 |
| 16. | Commercial Vehicle Enforcement | 907-365-1203 |

E. DIVISION 75 STANDARD CONSTRUCTION SPECIFICATIONS FOR LANDSCAPING IMPROVEMENTS

SECTION 75.04 SEEDING

Article 4.3 Application

Remove the first paragraph of A. Soil Preparation and replace with the following:

After grading of areas has been completed in conformity with the lines and grades shown on the Drawings, and before beginning seeding operations, the areas to be seeded shall be cultivated to provide a reasonably firm but friable seedbed. Cultivation shall be carried to a depth of two inches (2"). On slopes steeper than 3:1, depth of cultivation may be reduced as directed by the Engineer. All areas to be cultivated shall be raked or cleared of stones (one inch [1"] in diameter and larger), weeds, plant growth, sticks, stumps, and other debris or irregularities which might interfere with the seeding operation, germination of seed, or subsequent maintenance of the seed-covered areas. Cultivation shall include the entire ground surface, regardless of existing ground cover. Contractor may be required to trackwalk slopes 2:1 or over as directed in the Drawings or by the Engineer. Prior to seeding application, site inspection by the Engineer is required to confirm that preparation conditions are satisfactory for the seeding work to proceed.

F. DIVISION 80 STANDARD CONSTRUCTION SPECIFICATIONS FOR INSTALLATION AND REMOVAL OF TRAFFIC SIGNALS AND ILLUMINATION

SECTION 80.04 FOUNDATIONS

Article 4.5 Driven Pile Foundation

After the last paragraph, add the following:

Driven pile foundation for signal pedestal pole shall be as shown on the Plans and M.A.S.S. Standard Detail 80-12 for the base plate.

Article 4.7 Basis of Payment

Add the following pay item:

ITEM UNIT

Driven Pile Signal Pedestal Pole Foundation Each

SECTION 80.05 MAST ARMS, POLES, STEEL PEDESTALS AND POSTS

Article 5.2 Poles and Arms

B. Signal Poles and Arms Less Than 15' and all Luminaire Poles and Arms

After the last paragraph, add the following:

See Drawings for additional manufacturing and construction requirements.

Article 5.10 Measurement

After the last paragraph, add the following:

Breakaway traffic signal poles indicated as spares shall be delivered to Street Light Maintenance, 343-8372 prior to final acceptance. Contact Street Light Maintenance a minimum of three business days prior to delivery. The Engineer retains the right to inspect all poles for conformance with the contract documents prior to accepting delivery. The cost of storage prior to delivery and delivery of these materials is subsidiary to the pay item.

Article 5.11 Basis of Payment

Add the following pay item:

ITEM UNIT

Breakaway Traffic Signal Pole Each

Breakaway Traffic Signal Pole, Spare Each

SECTION 80.10 CONDUCTORS

Article 10.6 Measurement

After the last paragraph, add the following:

All grounding conductors are incidental to other Work and shall not be measured for payment.

SECTION 80.13 BONDING AND GROUNDING

Article 13.1 General

After the last paragraph, add the following:

Ground rods are not required to be installed in junction boxes.

SECTION 80.14 LOAD CENTERS

Article 14.1 General

After the last paragraph, add the following:

Circuit breakers shall be manufactured to fit the existing load center panel, industrial grade, and rated for the maximum available fault current indicated on the Plans.

Install short circuit fault current and arc flash placard on the existing load center. Placard shall reflect the calculation results shown on the Plans.

Article 14.8 Measurement

After the last paragraph, add the following:

Load center modifications shall be measured as units, complete and in place. This work includes furnishing and installing new circuit breakers in the existing load center, all work to terminate new cables on new circuit breakers, and installing short circuit and arc flash placards on the load center.

Article 14.9 Basis of Payment

Add the following pay item:

ITEM UNIT

Load Center Modifications Each

Add the following section:

SECTION 80.29 RADAR SPEED SIGN

Article 29.1 General

Work under this Section consists of the performance of all operations pertaining to furnishing and insalling the radar speed sign, including the labor, equipment, and materials, in accordance with the Drawings.

Article 29.2 Manufacturer

Radar speed sign shall be the "VCalm YS" traffic calming sign as manufactured by Fortel Traffic Inc. (https://www.vcalm.com) or approved equal.

Article 29.3 Materials

Contractor shall provide new, undamaged materials to meet the requirements specified on the Drawings and in these Specifications.

A. Radar Speed Sign

- 1. Contractor shall install a radar speed sign at the locations shown in the Drawings or as directed by the Engineer. Mount signs to a new 11' signal pedestal pole or electrolier in accordance with the Plans.
- 2. Radar speed sign shall have the approximate overal dimensions 45" (h) x 28.5" (w) x 4.5" (d).
- 3. Radar speed sign shall be UL listed.
- 4. Sign enclosure shall be rated NEMA-3R and be constructed of 11-gauge (0.090) continuous formed aluminum. Finish shall be black powder coat.
- 5. Upper display shall be static plaquareds, but have the option to be upgradable to a variable Light Emitting Diode (LED) message display in the future. The upper display shall read "YOUR SPEED" in two rows with approximate overall dimensions: 12" (h) x 20".
- 6. Lower display shall be numerals consisting of amber LEDs and have the approximate overall dimensions: 16" (h) x 18" (w). Lens shall be 3/8" polycarbonate.

- 7. Sign shall have a receptacle capable of receiving an SD card for programming and data retrival.
- 8. Install the following optional modules with the radar speed sign:
 - a. Wireless IP Mode/VSpeed Online for programming
 - b. Flashing Strobe for when speeds above the posted speed limit are detected
- 9. Includes 5 year wireless service subscription.
- 10. If a means to mount the sign to the pole are not included in the sign kit, or are unstable, the Contractor shall provide mounting hardware in accordance with M.A.S.S., these Special Provisions, and manufacturer's instructions, subject to approval by the Engineer.
- 11. Provide a short length of RMC between radar speed sign and pole or post, unless directed otherwise by the manufacturer's instructions or the field engineer. Conduit penetration shall be at the sign bottom unless otherwise directed. Pull radar speed sign cable through RMC and terminate.
- 12. Install a new 18"x24" R2-1 sign at radar speed sign "S1" as shown on the drawings.

Article 29.4 Construction

MOA Traffic to be onsite for field installations. Contact Kris Langley at MOA Traffic Engineering Department (907-343-8479) seven (7) working days prior to planned field installations. Provide MOA Traffic Engineering Department twenty four (24) hours notice prior to actual installations. Failure to notify MOA Traffic Engineering Department may result in delay of work and withholding of payment. The Owner may withhold from any progress payment the sum of \$500 per day as liquidated Damages for each and every calendar day the Contractor delays notification to MOA Traffic Engineering Department.

Contractor shall install the radar speed sign according to the manufacturer's instructions and in accordance with the Drawings or as directed by the Engineer. Contractor shall ensure that the radar speed sign is level and correctly orientated. Repair any damage to galvanized finishes according to Article 16.3.

Field locate all utilities and existing lighting circuits according to Article 1.1. Hand dig when within 2 feet of utilities.

Route conduit as shown in the Drawings or as directed by the Engineer. Utilize existing junction boxes and conduit where shown in the Drawings for the radar speed sign circuit.

Install new 18"x24" R2-1 signs at radar speed signs as shown on the drawings.

Article 29.5 Measurement

The radar speed sign system shall be measured as units, complete and in place. Any required mounting hardware is subsidiary to this pay item. Conduit and conductors required for the connection of the radar speed sign system shall be paid for seperately under Sections 80-07 and 80-10. The foundation and signal pedestal pole shall be paid for under Sections 80-04 and 80-05. The R2-1 speed limit sign, assembly, and mounting hardware shall be subsidiary to this pay item. All salvage and demolition efforts described in this section shall be subsidiary to this pay item.

Article 29.6 Basis of Payment

Payment for this Work shall be in accordance with Division 10, Section 10.07 - Measurement and Payment, and shall include full payment for all Work described in this Section.

Payment shall be made under the following unit:

ITEM UNIT

Radar Speed Sign Each

END OF SPECIAL PROVISIONS

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

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SUBMITTAL LIST

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24 SUBMITTAL LIST

| Job #: | Contractor: | |
|-------------|-------------|--|
| $JUU \pi$. | Contractor. | |

| Submittal Number | Rev. | Description |
|------------------|-------|--|
| 10.04.12 | 1107. | Property Owner 48-Hour Closure Notice |
| 10.04.13 | | Street Closures; Traffic Control Plan |
| 10.04.15 | | Temporary Erosion and Sediment Control Plan |
| 10.04.17 | | Utility Notification Verification |
| 10.04.17 | | Pre-Construction Utility Inspection Report |
| 10.04.17 | | Post-Construction Utility Inspection Report |
| 10.04.19 | | Record Drawings |
| 10.04.20 | | Operating and Maintenance Manuals |
| 10.05.3 | | Construction Progress Schedule |
| 10.05.4 | | Notice of Unusual Working Hours |
| 10.05.7 | | Proposed Substitutions |
| 10.05.9 | | Contractor's Authorized Representatives and Employees |
| 10.05.10 | | Subcontractor's List |
| 10.06.6 | | Contractor Obtained Permits (ROW, Noise, Electrical, Dewatering, etc.) |
| 10.06.9 | | Certificate of Insurance |
| 10.06.12 | | Certified Payroll |
| 10.07.1 | | Material Weight Tickets |
| 10.07.7 | | ADOL Notification of Compliance |
| 10.07.7 | | Notarized Certificate of Compliance |
| 20.02.4 | | Storm Water Pollution Prevention Plan (SWPPP) |
| 20.02.16 | | SWPPP Inspection Reports |
| 20.10.7 | | Survey Cross-Section Measurement - Usable and Unusable Excavation |

| Submittal Number | Rev. | Description |
|------------------|------|--|
| 20.27.4 | | Survey Cross-Section Measurement - Trench Excavation Disposal of Unusable or Surplus Material |
| 20.13.2 | | Trench Excavation Notice to Engineer and AWWU. |
| 30.01.9 | | Concrete Temperature Maintenance Procedure Proposal |
| 40.02.2 | | Certified Analysis of Asphalt for Seal Coat from Refining Laboratory |
| 40.04.2 | | Certified Analysis of Asphalt for Tack Coat from Refining Laboratory |
| 40.04.3 | | Tack Coat Test Strip and Notification |
| 40.06.3 | | Asphalt Job Mix Formula for A.C. Pavement |
| 40.06.4 | | Contractor's Certificate of Compliance for bituminous paver segregation mechanism installation |
| 40.06.5 | | Paving Plan |
| 40.09.2 | | Certified Analysis of Asphalt for Bituminous Surface Treatment from Refining Laboratory |
| 50.06.2 | | Sanitary Sewer Existing Manhole Modifications Submittal |
| 65.02.2 | | Survey Field Notes |
| 65.02.3 | | Party Chief's Daily Diary |
| 65.02.5 | | Survey Cross Sections |
| 65.02.5 | | Notification Prior to Cross Section Work |
| 65.02.13 | | Survey Electronic Data |
| 65.02.16 | | Survey Quantity Measurements (Clearing, Clearing & Grubbing, Pavement Removal, Pavement Rotomilling, Pavement Reclamation, Road Excavation, Trench Excavation, Topsoil, Seeding, and other areas of misc. final surfacing application such as asphalt, concrete, RAP, etc. which are measured in SF or SY) |
| 70.10.3 | | Manufacturer's Recommendations for Application of Methyl Methacrylate Traffic Markings |
| 70.12.2 | | Traffic Control Plan (TCP) |
| 70.12.4 | | Identify Work Site Traffic Supervisor/Telephone Number |
| 70.12.6 | | Proof of Public Notice |
| 75.02.3 | | Identify Tree Protection Zone |

| Submittal Number | Rev. | Description |
|------------------|------|--|
| 75.03.2 | | Topsoil Analysis Test Reports |
| 75.04.2 | | Seed Certification Tag |
| 80.01.3 | | Electrical Equipment and Materials Submittal |
| 80.01.3 | | Record Drawings |
| 80.01.4 | | Manufacturers' Warranties, Guarantees and Instruction Sheets |
| 80.01.5 | | Traffic Signal Maintenance Name and Telephone Number |
| 80.05.1 | | Wind Stress Certification Submittal |
| 80.29 | | Radar Speed Sign Hardware |

NOTE: The above list of submittals is not all inclusive. In addition to the above, the Contractor is required to comply with all submittal requirements as required or identified in the plans, specifications, M.A.S.S., or as directed by the Engineer.

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

IV

EQUAL EMPLOYMENT OPPORTUNITY SPECIAL PROVISION

CONTRACT COMPLIANCE SPECIFICATIONS

EQUAL EMPLOYMENT OPPORTUNITY

SPECIAL PROVISIONS

Every municipal contract shall include language substantially the same as the following: The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status, or physical or mental disability. The contract will comply with all laws concerning the prohibition of discrimination including, but not limited to, Title 5 and Title 7 of the Anchorage Municipal Code.

Every municipal contract shall state, in all solicitations or advertisements for employees to work under the contract, that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, marital status, or physical or mental disability.

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

V

MINIMUM RATES OF PAY

Laborers' & Mechanics' Minimum Rates of Pay

Title 36. Public Contracts AS 36.05 & AS 36.10 Wage & Hour Administration Pamphlet No. 600 (Pamphlet 600) is hereby incorporated in its entirety. Pamphlet 600 is available for free download at http://labor.state.ak.us/lss/pamp600.htm.

The Municipality of Anchorage will include a paper copy of the wage rates in the signed Contract.

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

VI

CONTRACT

| NAME AND ADDRESS OF CO |
|-------------------------|
| |
| |
| |
| MUNICIPALITY OF ANCHORA |
| Contract for |

BID SCHEDULES

THIS CONTRACT, entered into the Owner named above, and called the Contractor, WITNESS

Statement of Work: The Contr. Work above described, for the a

| l. | This CONTRACT consisting |
|------|--|
| II. | The Bid Proposal Section _ 2019C |
| III. | The Contract Performance |
| IV. | The Contractor's Certificate |
| V. | Municipality of Anchorage Reference, as contained ir |
| VI. | Specifications consisting of |
| | Supplemental Provisions S through F, as contained in |
| VII. | Equal Opportunity Special contained in ITB 2019C |
| VIII | Disadvantaged/Women-Ow consisting of pages, |
| IX. | The Laborers' and Mechan consisting of pages, |
| Χ. | Submittal List Section |
| XI. | The Drawings consisting 2019C |
| | |

CONTRACT AND PERFORMANCE AND PAYMENT BOND SIGNATURE INSTRUCTIONS

- 1. The full name and business of the Contractor shall be inserted on Page 1 of the Contract and on the Performance and Payment Bond, hereinafter the Bond.
- 2. Two copies of the Contract and the Bond shall be manually signed by the Contractor. If the Contractor is a partnership or joint venture, all partners or joint ventures shall sign the Contract and the Bond except that one partner or one joint venturer may sign for the partnership or joint venture when all other partners or joint venturers have executed a Power-of-Attorney authorizing one partner or joint venturer to sign. The Power-of-Attorney shall accompany the executed contract and the Bond.
- If the Contractor is a corporation, the President of the corporation shall execute the Contract and the Bond unless a Power-of-Attorney or corporate resolution shall accompany the executed Contract and Bond.
- 4. The Bond shall be returned to the Purchasing Division undated. The Contract Date shall be inserted on the Contract when the Municipality signs the Contract and the Bond shall be dated the same as the Contract Date.



EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

VII

CONTRACT PERFORMANCE AND PAYMENT BOND

CONTRACT PERFORMANCE AND PAYMENT BOND

| KNOW ALL MEN BY THESE PRESENTS, That w | e | | _ |
|---|---------------------------------------|-----------------------------|------|
| of | | | |
| as Principal, and | | | |
| a corporation organized under the laws of the | | | |
| | and authorized to | transact surety business | in |
| the State of Alaska, of | · · · · · · · · · · · · · · · · · · · | | |
| as Surety, are held and firmly bound unto the MU | NICIPALITY OF AN | ICHORAGE, as Obligee, | in |
| the full and just sum of | | | |
| (\$) Do | ollars, lawful money | of the UNITED STATES, | for |
| the payment which, well and truly to be mad | e, we bind oursel | ves, our heirs, executo | rs, |
| administrators, successors and assigns, jointly and | d severally, firmly by | these presents. | |
| THE CONDITIONS OF THIS OBLIGATION IS SU | CH, that whereas th | ne principal has entered in | nto |
| a certain contract dated the | date of | 20 | ; |
| with the Obligee for the construction of | | | |
| | | | |
| which contract is hereby referred to and made a p | oart hereof as fully a | and to the same extent as | s if |
| | | | |

copied at length herein.

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract, and shall promptly make payments to all persons supplying labor and material in the prosecution of the work provided for in said contract, during the original term of said contract and any extensions or modifications thereof that may be granted by the Municipality, with or without notice to the Surety, then this obligation to be void; otherwise to remain in full force and effect.

This obligation is made for the use of said Obligee and also for use and benefit of all persons who may perform any work or labor or furnish any material in the execution of said Contract and may be sued on thereby in the name of said Obligee.

The said Surety, for the value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same, shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

Whenever Principal shall be, and declared by Obligee to be in default under the Contract the Obligee having performed Obligee's obligations thereunder, the Surety may promptly remedy the default or shall promptly:

- 1. Complete the Contract in accordance with its terms and conditions, or
- Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions and upon determination by Surety of the lowest responsible bidder, or, if the Obligee elects, upon determination by Obligee and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as Work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price but not exceeding, including other costs and damages for which the Surety may be liable hereunder the amount set forth in the first paragraph hereof. The term "balance of the contract price" as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract and any amendments thereto, less the amount properly paid by Obligee to Principal.

| IN TESTIMONY WHEREOF, the parties hereunto have | e cause | d the execution hereof in |
|---|---------|---------------------------|
| original counterparts as of the | | day of |
| 20 | | |
| WITNESS AS TO PRINCIPAL: | | |
| | | Principal Name |
| | | Principal Signature |
| (AFFIX CORPORATE SEAL) | | Corporate Surety |
| | | |
| | | Surety Business Address |
| | BY: | (Attorney-In-Fact) |

(AFFIX SURETY SEAL)

EDWARD STREET PERMANENT RADAR SPEED SIGNS

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VIII

CERTIFICATE OF INSURANCE

INSURANCE

By submitting a bid, the bidder agrees, if they are the successful bidder, to obtain and maintain the insurance required by this section. The bidder also agrees to provide the Municipality a copy of their Certificate of Liability Insurance prior to signing the contract and prior to commencement of any work under this contract.

<u>GENERAL</u>: The Contractor will not allow any subcontractor to commence work until the subcontractor has obtained insurance as listed in this section. The contractor and each subcontractor shall maintain this insurance throughout the life of this contract, including any maintenance and/or guarantee/warranty period. The contractor shall obtain separate insurance certificates for each contract.

<u>ADDITIONAL INSURED</u>: The Municipality of Anchorage shall be listed as an additional insured on all General and Auto Liability policies required by this contract. All policies shall contain a waiver of subrogation against the Municipality, except Professional Liability. All policies shall remain in effect during the life of the contract. The Contractors insurance certificate shall also indicate the Municipality of Anchorage as a certificate holder of the policy.

<u>WORKERS COMPENSATION:</u> The Contractor shall purchase and maintain during the life of this contract, workers compensation insurance for all employees who will work on this project and, if any work is sublet, the Contractor shall require the subcontractor similarly to provide such insurance. Employers' Liability with a minimum limit of \$500,000 shall be maintained and Workers Compensation with minimum limits as required by Alaska State Workers Compensation Statutes. The policy shall contain a waiver of subrogation against the Municipality.

NOTICE TO "OUT-OF-STATE" CONTRACTORS WORKING IN ALASKA: The Contractor shall provide evidence of Workers Compensation insurance, either State of Alaska Workers Compensation coverage or an endorsement to the Contractor's home state Workers Compensation policy, evidencing coverage for "other states" including Alaska, prior to execution of a contract or, if approved, before commencement of contract performance in Alaska.

<u>GENERAL LIABILITY:</u> The Contractor shall purchase and maintain, in force, during the life of this contract such general liability insurance as shall protect the Owner and the Contractor against losses which may result from claims for damages for bodily injury, including accidental death, as well as from claims for property damages which may arise from any operations under this contract whether such operations be those of the Contractor, a subcontractor or anyone directly or indirectly employed by either of them.

| Commercial General Liability | Minimum Limits |
|---|----------------|
| Products/Completed Operations | \$2,000,000 |
| Personal & Advertising Injury | \$1,000,000 |
| Each Occurrence | \$1,000,000 |
| General Aggregate | \$2,000,000 |
| Medical Payments | \$5,000 |
| Commercial Auto Liability | Minimum Limits |
| Combined single limit (Bodily Injury and Property | \$1,000,000 |
| Damage) | |
| Including all owned, hired, and non-owned | |
| | |
| Workers Compensation and Employers Liability | Minimum Limits |
| Per Alaska statute | \$500,000 |
| Errors and Omissions | Minimum Limits |
| Professional Liability | |
| (Not required unless limits appear in space provided) | |
| | |
| <u>Umbrella Liability</u> | Minimum Limits |
| (Not required unless limits appear in space provided) | |
| C.I.D. | |
| \$ S.I.R. | |

Each insurance policy required by this section shall require the insurer to give advance notice to the MOA/Contract Administrator prior to the cancellation of the policy. IF the insurer does not notify the MOA upon policy cancellation, it shall be the Contractor's responsibility to notify the MOA of such cancellation.

COMPLIANCE WITH LAWS

The Contractor shall observe and abide by all applicable laws, regulations, ordinances and other rules of the State of Alaska and/or any political subdivisions thereof, or any other duly constituted public authority wherein work is done or services performed, and further agrees to indemnify and save the Municipality of Anchorage harmless from any and all liability or penalty which may be imposed or asserted by reason of the Contractor's failure or alleged failure to observe and abide thereby.

(Remainder of Page Initially left Blank)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) shall be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER CONTACT NAME | | | | | | | | | |
|---------------------------------|--|--------------|-------|------------------------|--------------------------------|----------------------------|----------------------------|--|-------------|
| | | | | | PHONE FAX (A/C, No, Ext) (A/C, | | | | |
| | | | | | E-MAIL | | | | |
| | | | | | ADDRESS | INCLIDE | R(S) AFFORDING | COVERAGE | NAIC # |
| | | | | | INSURER A | INSUKL | N(3) AIT ONDIN | GCOVERAGE | NAIC# |
| INSURED | | | | | INSURER B | | | | |
| | | | | | INSURER C | | | | |
| | | | | | INSURER D | | | | |
| | | | | | INSURER E | | | | |
| | | | | | | | | | |
| TUIC IC | TO CERTIFY THAT THE POLICIES OF | INICIII | DANC | YE LICTED BELOW HAY | INSURER F | CLIED TO TH | E INCLIDED A | IAMED ABOVE FOR THE DO | LICY DEDICE |
| | TED. NOTWITHSTANDING ANY REQUIR | | | | | | | | |
| CERTIF | ICATE MAY BE ISSUED OR MAY PERT | AIN, | THE | INSURANCE AFFORDE | D BY THE | POLICIES D | ESCRIBED HE | | |
| EXCLUS INSR LTR | SIONS AND CONDITIONS OF SUCH POLICE | | | | | | | | |
| | | ADDL INSR | WVD | POLICYNUMBE | R | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | |
| | GENERAL LIABILITY | | | | | | | EACH OCCURRENCE \$ DAMAGE TO RENTED | |
| • | COMMERCIAL GENERAL LIABILITY | | | | | | | PREMISES (Ea occurrence) \$ | |
| | CLAIMS-MADE OCCUR | | | | | | | MED EXP (Any one person) \$ | |
| | | | | | | | | PERSONAL & ADV NJURY \$ | |
| | | | | | | | | GENERAL AGGREGATE \$ | |
| | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | | | PRODUCTS - COMP/OP AGG \$ | |
| | POLICY PRO LOC | | | | | | | \$ | |
| | AUTOMOBILE LIABILITY | | | | | | | COMB NED S NGLE LIMIT (Ea accident) \$ | |
| | ANY AUTO | | | | | | | BODILY INJURY (Per person) \$ | |
| | ALL SCHEDULE D AUTOS | | | | | | | BODILY INJURY (Per accident) \$ | |
| | AUTOS NON- OWNED | | | | | | | PROPERTY DAMAGE (Per accident) \$ | |
| | HIRED AUTOS AUTOS | | | | | | | \$ | |
| | UMBRELLALIAB OCCUR | | | | | | | EACH OCCURRENCE \$ | |
| | EXCESSLIAB CLAIMS- | | | | | | | AGGREGATE \$ | |
| | DED RETENTION\$ | | | | | | | \$ | |
| | WORKERS COMPENSATION | | | | | | | WC STATU- OTH- TORYL MITS ER | |
| | AND EMPLOYERS' LIABILITY ANY PROPR ETOR/PARTNER/EXECUTIVE | | | | | | | E.L. EACH ACCIDENT \$ | |
| | | N/A | | | | | | E.L. DISEASE - EA \$ | |
| | OFFICER/MEMBER EXCLUDED? (Mandatory in NH) | | | | | | | E.L. DISEASE - POLICY L MIT \$ | |
| | If yes, describe under | | | | | | | | |
| | DÉSCR PTION OF OPERATIONS below | | | | | | | | |
| | | | | | | | | | |
| | | | | | | _ | | | |
| | on of operations / Locations / Vehicles (and Municipality of Anchorage is an addition | | | | | | | workers compensation con | atoin o |
| | VER OF SUBROGATION against the I | | | | | icies. Ali polic | ies, including | workers compensation, cor | Ilaiii a |
| | ICELLATION: "Should any of the above | | | | - | ovniration dat | to thoroof no | tice will be delivered in acco | danco |
| | the Policy Provisions." | uesc | iibec | policies be caricelled | Delote the | expiration dat | e triefeor, fio | lice will be delivered in acco | dance |
| WILLI | the Folloy Frovisions. | | | | | | | | |
| CERTIFICATE HOLDER CANCELLATION | | | | | | | | | |
| | | | | | | | | DESCRIBED DOLICIES DE | CANCELLED |
| | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED | | | | | | | | |
| | | | | | | TH THE POLIC | CY PROVISIONS. | | |
| | | | | | Authorized R | epresentative | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

IX

BID BOND

BID BOND

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| ate of Alaska, o | f |
| e held and firml | ly bound unto the MUNICIPALITY OF |
| | |
| |) Dollars, lawfu |
| s, successors, a | im, well and truly to be made, we bind nd assigns, jointly and severally, firmly sal for |
| to be void; othe | ecure the performance of the terms and erwise the Principal and Surety will pay |
| | , 20 |
| | |
| _ | Contractor Name |
| _ | Contractor Signature |
| _ | Corporate Surety |
| _ | Surety Business Address |
| BY: | |
| _ | (Attorney-In-Fact) |
| | ent of Alaska, of the sum of |

(AFFIX SURETY SEAL)

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

X

BIDDER'S CHECKLIST & RESPONSIBLE BIDDER QUESTIONAIRE

Municipality of Anchorage ITB: 2023C009

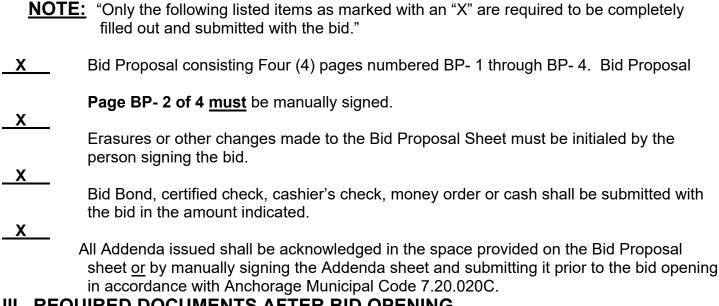
BIDDER'S CHECKLIST

INSTRUCTION TO BIDDER

I. GENERAL:

Bidders are advised that notwithstanding any instructions or implications elsewhere in this Invitation to Bid only the documents shown and detailed on this sheet need be submitted with and made part of their bid. Other documents may be required to be submitted after bid time, but prior to award. Bidders are hereby advised that failure to submit the documents shown and detailed on this sheet shall be justification for rendering the bid nonresponsive. Evaluation of bids for responsiveness shall be accomplished in accordance with Anchorage Municipal Code, Title 7.

II. REQUIRED DOCUMENTS FOR BID



III. REQUIRED DOCUMENTS AFTER BID OPENING

The following documents are required within **five (5)** working days of notification by the Purchasing Office. Failure, in whole or in part, to submit the documents required below shall be grounds to determine the Bidder as non-responsible.

X In accordance with AO No. 2019-130 (S), Anchorage Municipal Code 7.20.030 and 7.20.070, Contractor Questionnaire consisting of three (3) Pages, Prime Contractor Form Filled out by Prime Contractor and all known subcontractors. Please review AO NO. 2019-130 (S), AMC 7.20.030 and 7.20.070, and the attached Contractor Questionnaire before submitting a bid.

MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

ΧI

BID PROPOSAL

Company Name

BID PROPOSAL (CERTIFICATION)

| TO: | MUNICIPALITY OF AND PURCHASING DEPART 632 W. 6TH AVENUE, S ANCHORAGE, ALASKA | TMENT SUITE 520 | March 13, 2021 |
|--------------------------------------|--|--|---|
| SUBJECT: | Invitation to Bid No. | 2023C009 | |
| PROJECT TITI | E: Edward Street Perm | anent Radar Speed S | igns |
| thereto, the bid construction of | der hereby proposes to fo | urnish all labor and mate ject in strict accordance | and other bid documents relating erials and to perform all work for the with the bid documents at the prices mitted herewith. |
| | ees, if awarded the contra bid documents. | act, to commence and c | complete the work within the time |
| Basic Bid; L | ump Sum; 1 Job: | | \$ |
| The bidder ack | nowledges receipt of the | following addenda: | |
| Addenda No | | Date of Addenda Date of Addenda Date of Addenda | |
| Enclosed is a B | id Bond in the amount of | (Dollar Amount or Perc | centage of Bid) |
| incorporated ur) an LLC, () a p | checking the applicable checking the applicable checking the applicable checking the checking th | of, it organization, or()a j | it operates as () a corporation () an individual, (oint venture. If a partnership or joint |
| Is this project Yes □ No X | Federally Funded? | | |

BID PROPOSAL (CERTIFICATION) Continued

SUBJECT: Invitation to Bid No. 2023C009

PROJECT TITLE: Edward Street Permanent Radar Speed Signs

| Date | Alaska Contractor's License Numbe |
|---|--------------------------------------|
| Company Name (Printed) | Employer's Tax Identification Number |
| Authorized Representative Signature | Printed Name & Title |
| Company Mailing Address | Company Phone Number |
| City, State, Zip Code | Company Fax Number |
| Company Physical Address (if different from mailing address) | Company Email Address |
| City, State, Zip Code | |

MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT EDWARD STREET PERMANENT RADAR SPEED SIGNS 22-24

| ITEM | SPEC. | WORK DESCRIPTION | | FRT OTV | LIMIT DID DDICE | TOTAL BID BBIGS |
|------|----------------|---|---------|---------|-----------------|-----------------|
| NO. | NO. | WORK DESCRIPTION | | EST QTY | UNIT BID PRICE | TOTAL BID PRICE |
| A-1 | 20.02 | Storm Water Pollution Prevention Plan (Type I) | per LS | 1 | | |
| A-2 | 20.05 95.04 | Clearing | per LS | 1 | | |
| A-3 | 20.07 | Remove Sidewalk | per SY | 10 | | |
| A-4 | 20.08 | Remove Curb and Gutter | per LF | 20 | | |
| A-5 | 20.09 95.04 | Remove Pavement | per SY | 100 | | |
| A-6 | 20.10 | Unusable Excavation | per CY | 10 | | |
| A-7 | 20.11 | Grading Existing Surfaces | per LF | 23 | | |
| A-8 | | Classified Fill and Backfill (Type II-A) | per Ton | 10 | | |
| A-9 | 20.22 95.04 | Leveling Course | per Ton | 15 | | |
| A-10 | 30.02 | P.C.C. Curb and Gutter (All Types) | per LF | 20 | | |
| A-11 | 30.03 | P.C.C. Sidewalk (4-Inch) (Standard Finish) | per SY | 10 | | |
| A-12 | 40.04 | Asphalt Tack Coat | per Ton | 1 | | |
| A-13 | 40.06 | A.C. Pavement (Class E) | per Ton | 25 | | |
| A-15 | 65.02 | Construction Survey Measurement | per LS | 1 | | |
| A-16 | 65.02 | Two-Person Survey Crew | per HR | 8 | | |
| A-17 | 70.10 | Traffic Markings (4" Solid White) | per LF | 30 | | |

COMPANY NAME

MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT EDWARD STREET PERMANENT RADAR SPEED SIGNS 22-24

| ITEM NO. | SPEC. NO. | WORK DESCRIPTION | | EST QTY | UNIT BID PRICE | TOTAL BID PRICE |
|-------------|----------------|--|---------|---------|----------------|-----------------|
| A-18 | 70.10 | Traffic Markings (4" Solid Yellow) | per LF | 50 | | |
| A-19 | 70.12 95.04 | Traffic Maintenance | per LS | Ĩ | | |
| A-20 | 75.03 | Topsoil (4-Inch) | per MSF | 1 | | |
| A-21 | 75.04 95.04 | Seeding (Schedule A) | per MSF | 1 | | |
| A-22 | 80.02 | Trench and Backfill, 2'x3' | per LF | 60 | | |
| A-23 | | Driven Pile Signal Pedestal Pole Foundation | per EA | 1 | | |
| A-24 | 80.05 95.04 | Breakaway Traffic Signal Pole | per EA | 1 | | |
| A-25 | 80.05 95.04 | Breakaway Traffic Signal Pole, Spare | per EA | 1 | | |
| A-26 | 80.07 | GRC Steel Conduit (2") | per LF | 120 | | |
| A-27 | 80.08 | Junction Box (Type 1A) | per EA | 2 | | |
| A-28 | 80.10 95.04 | Conductor, 3C, #14 AWG, XHHW | per LF | 820 | | |
| A-29 | 80.10 95.04 | Conductor, 3C, #10 AWG, XHHW | per LF | 2,535 | | |
| A-30 | 80.10 95.04 | Conductor, 3C, #8 AWG, XHHW | per LF | 165 | | |
| A-31 | 80.14 95.04 | Load Center Modifications | per EA | 1 | | |
| A-32 | 80.29 95.04 | Radar Speed Sign | per EA | 3 | | |

| | | PCI LI | | | |
|----------------|----------------------------------|--|--|--|---|
| 80.14 95.04 | Load Center Modifications | per EA | 1 | | |
| 80.29 95.04 | Radar Speed Sign | per EA | 3 | | |
| | | | | TOTAL: | 39 |
| RACTO | R: | | DATE: | | |
| OMPAN | IY NAME | BP-4 o | f 4 | | |
| | 95.04 80.29 95.04 RACTO | 80.14 Load Center Modifications 80.29 Radar Speed Sign RACTOR: | 80.14 95.04 Load Center Modifications per EA 80.29 95.04 Radar Speed Sign per EA RACTOR: | 80.14 95.04 Load Center Modifications 1 per EA 80.29 95.04 Radar Speed Sign 3 per EA RACTOR: DATE: | 80.14 95.04 Load Center Modifications 1 per EA 1 80.29 95.04 Radar Speed Sign 3 per EA TOTAL: RACTOR: DATE: |

MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

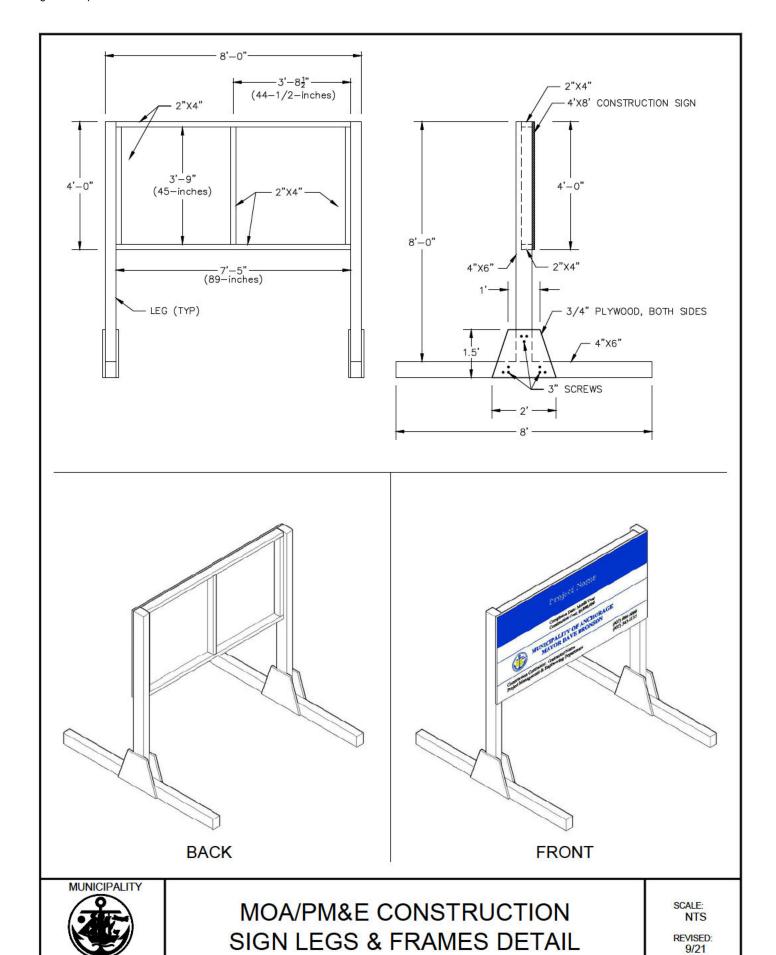
22-24

XII

Attachment A

Project Information Sign Detail

OF ANCHORAGE



MUNICIPALITY OF ANCHORAGE TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

22-24

XIII

PLANS (11 SHEETS)

DRAWING INDEX

- TITLE SHEET
- LEGEND, INDEX, GENERAL NOTES, AND

BREAKAWAY TRAFFIC SIGNAL POLE

- **ABBREVIATIONS** SURVEY CONTROL
- TYPICAL SECTION DEMOLITION PLAN
- LAYOUT PLAN 7-10 ELECTRICAL PLAN
- **ABBREVIATIONS** DETAIL AND SHEET NUMBER FOR DETAIL ASPHALT CONCRETE
- ADDN ADDITION **APPROXIMATE** ALUMINUM CAP
- RIK BLOCK BENCH MARK B.O.P. BEGINNING OF PROJECT
- CENTERLINE/CLEAR COMPLETE JOINT PENETRATION
- FACH EXPANSION JOINT
- ELEC ELECTRIC ESMI EASEMENT
- FOP FND OF PROJECT F&I FURNISH AND INSTALL
- GAAR GREATER ANCHORAGE AREA BOROUGH I.A.W. IN ACCORDANCE WITH IBC INTERNATIONAL BUILDING CODE
- LOC LIP OF CURB
- M.A.S.S. MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS-DRAINAGE-UTILITIES-PARKS,
- 2015 AS CURRENTLY AMENDED MAXIMUM
- MATCH EXISTING MFASURFD MH MANHOLF.
- MINIMUM METHYLEMETHACRYLATE
- MOA MUNICIPALITY OF ANCHORAGE MON MONUMENT
- NGS NATIONAL GEODETIC SURVEY NTS NOT TO SCALE ON CENTER FACH WAY OCFW
- OCCUPATIONAL SAFETY AND HEALTH **OSHA ADMINISTRATION** POINT OF CURVATURE
- P.C.C. PORTLAND CEMENT CONCRETE
- POINT OF TANGENCY REC RECORDED
- REQUIRED REQ'D ROW RIGHT OF WAY RIGHT
 - STORM DRAIN SDMH STORM DRAIN MANHOLE
- STA STATION STD DTL STANDARD DETAIL FOUND IN DIVISION 90,
- SURD SURDIVISION
- TRC TOP BACK OF CURB TELE TELEPHONE ULTRASONIC TESTING
- VISUAL TESTING WEST / WHITE YELLOW

GENERAL NOTES

- CONTRACTOR SHALL COMPLETE CONSTRUCTION I.A.W. THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, DATED 2015 HEREAFTER REFERRED TO AS
- 2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED AT THE JOB SITE.
- I.A.W. ACCEPTED CONSTRUCTION PRACTICES AND M.A.S.S. GENERAL PROVISIONS, THE CONTRACTOR SHALL HAVE SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS, SUBCONTRACTORS, SUPPLIERS, PROPERTY, AND TRAFFIC SAFETY. THE CONTRACTOR SHALL ALSO HAVE SOLE AND COMPLETE RESPONSIBILITY OF STORM WATER MANAGEMENT. THESE REQUIREMENTS SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA), AND ALL OTHER FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT (ROADS, PARKING AREAS, DRIVEWAYS, ETC.) TO A LINE 2 FEET BEYOND THE PROPOSED IMPROVEMENTS, AND MORE IF NECESSARY, DURING THE INITIAL EXCAVATION OPERATIONS. IF EXISTING PAVEMENT HAS BEEN LIFTED, IF EDGE DOES NOT OCCUR IN UNDISTURBED MATERIAL, OR IF EDGE IS LOCATED WITHIN A TRAVEL LANE, FURTHER REMOVAL MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, TO PROVIDE A PROPER TRANSITION BETWEEN NEW AND EXISTING PAVEMENT. SAWCUTTING OF EXISTING PAVEMENT IS INCIDENTAL TO THE BID ITEM "REMOVE EXISTING PAVEMENT". AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL SAWCUT PAVEMENT TRANSVERSE JOINTS SKEWED AT AN ANGLE OF TWENTY DEGREES
- 8. CONTRACTOR SHALL SAWCUT CURB & GUTTER AND SIDEWALK AT THE NEAREST JOINT AT OR BEYOND REMOVAL LIMITS OR AS DIRECTED BY THE ENGINEER. SAWCUTTING IS INCIDENTAL TO THE RESPECTIVE BID ITEM.
- CONTRACTOR SHALL APPLY TACK COAT TO THE SAW CUT ASPHALT OR GUTTER FACE PRIOR TO PAVING. APPLICATION OF TACK COAT TO THE SAWCUT OR GUTTER FACE IS INCIDENTAL TO THE RESPECTIVE BID ITEM
- 10. CONTRACTOR SHALL REMOVE ORGANIC MATERIAL FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NOT PLACE OR OTHERWISE UTILIZE ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL FOR BACKFILL, UNLESS DIRECTED BY THE ENGINEER.
- 11. WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXIST WITHIN THE PROJECT LIMITS IS INCIDENTAL TO THE PROJECT AND NO SEPARATE
- 12. CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH M.A.S.S. DIVISION 65.00 CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION SURVEYS. THE CONTRACTOR SHALL MAINTAIN THE "REDLINES" CURRENT ON A DAILY BASIS WHICH SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOB SITE.
- 13. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWINGS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD. CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE PLANS AND SUBMIT DAILY SURVEY NOTES TO THE ENGINEER.
- 14. CONSTRUCTION OPERATIONS REQUIRED FOR THIS PROJECT SHALL REMAIN WITHIN EXISTING MOA RIGHTS-OF-WAY AND EASEMENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND THE AFFECTED PROPERTY OWNER.
- 15. LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS AND UTILITY COMPANY LOCATES. CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- 16. OVERHEAD ELECTRICAL AND TELECOMMUNICATION LINES OCCUR WITHIN THE PROJECT AREA. CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING UTILITY LINES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. CONTRACTOR SHALL HAND DIG WITHIN TWO FEET OF BURIED ELECTRICAL CABLE.
- 17. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. RESTORING DISTURBED PROPERTY IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 18. CONTRACTOR SHALL MAINTAIN OPERATIONAL STOP SIGNS AND STREET SIGNS IN THE PROJECT AREA DURING CONSTRUCTION.
- 19. CONTRACTOR SHALL PLACE TOPSOIL AND SEED TO ALL AREAS DISTURBED AND NOT OTHERWISE IMPROVED, AS DIRECTED BY THE ENGINEER.
- 20. CONTRACTOR SHALL HAND DIG TO EXPOSE ANY ROOTS WITHIN THE TREE PROTECTION ZONE I.A.W. M.A.S.S. SECTION 75.02, ARTICLE 2.3D PROTECTION OF EXISTING TREES. IF DAMAGE OR CHANGES IN TREE APPEARANCE OCCURS DURING THE CONSTRUCTION PROCESS IMMEDIATELY NOTIFY THE ENGINEER.
- 21. PRIOR TO INSTALLATION, PROJECT ENGINEER SHALL APPROVE FINAL RADAR SPEED SIGN LOCATION AND ORIENTATION.
- 22. MOA TRAFFIC ENGINEERING TO BE ON ONSITE FOR RADAR SPEED SIGN INSTALLATIONS. CONTACT KRIS LANGLEY WITH MOA TRAFFIC ENGINEERING (907-343-8479) A MINIMUM OF 7 WORKING DAYS PRIOR TO PLANNED RADAR SPEED SIGN INSTALLATIONS. PROVIDE MOA TRAFFIC ENGINEERING 24 HOURS NOTICE PRIOR TO ACTUAL

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL NOTIFY AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION. THE FOLLOWING

LOCATE CALL CENTER OF ALASKA (INCLUDES ACS, AWWU, CEA, ENG, BUTLER AVIATION/TESORO,

GCI CABLE, MLP, TRAFFIC SIGNALS, MOA STORM/STREETS, AND ALASKA FIBER STAR.)

STATE STORM/STREET LIGHTS

MILITARY PETROLEUM LINES

333-2411 862-4112

D ENGINEERING

3335 Arctic Blvd., Suite 100

Anchorage, AK 99503 (907) 564-2120 www.HDLalaska.com AECL861

 SURVEYING · GEOTECHNICA

| | ECORD DRAWING | | | | Т |
|----|-------------------------------------|-----------------------|----------------------|--------------------------|----|
| 1. | DATA PROVIDED BY: | | TITLE: | | В. |
| | THIS WILL SERVE TO CERTIFY THAT TH | ESE RECORD DRAWINGS | ARE A TRUE AND ACC | CURATE REPRESENTATION OF | TO |
| | THE PROJECT AS CONSTRUCTED. | | | | P |
| | CONTRACTOR: | | | | 51 |
| ı | BY: | TITLE: | D | ATE: | W. |
| 2 | DATA TRANSFERRED BY: | | TITLE: | | G |
| ı | COMPANY: | | DATE: | | T |
| 7 | BASED ON PERIODIC FIELD OBSERVATION | ONE BY THE ENGINEER (| OR AN INDIVIDUAL UNI | DER HIS AUER DIRECT | 8 |
| 3 | SUPERVISION), THE CONTRACTOR-PROV | | | | D |
| | DATA TRANSFER CHECKED BY: | | | | ٥ |
| ı | COMPANY: | | | | P |
| | | | | | |

| DATA | DRAWN BY | CHECKED | | | | |
|----------------------|-------------|---------|---------------------|--------------------------|----|-----|
| BASE | - | - | | | | |
| TOPOGRAPHY | - | - | .,- | | | |
| PROFILE | - | - | FIELD BOOKS | | BY | |
| STORM SEWER | - | - | DESIGN | | | 1 2 |
| WATER/SANITARY SEWER | - | - | | | | - 8 |
| GAS | - | - | STAKING | | 7 | |
| TELEPHONE | - | - | | | | 1 |
| ELECTRIC | 1-0 | _ | | | | 33 |
| DESIGN | | | ASBUILT | | | |
| QUANTITIES | _ | - | CONTRACTOR | BASIS OF THIS DATUM | | 1 |
| PRELIMINARY/FINAL | - | | INSPECTOR | | | 1 |
| MUNICIPAL/STATE | _ | _ | | | | |
| PLAN (| CHECK | | CONSTRUCTION RECORD | VERTICAL DATUM REVISIONS | | |



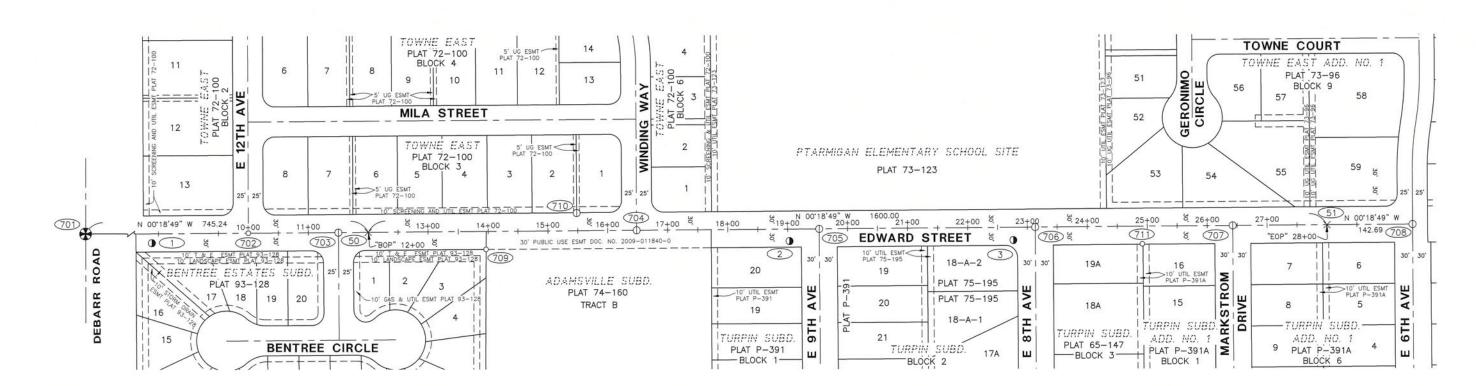


TRAFFIC ENGINEERING DEPARTMENT

22-24 EDWARD STREET PERMANENT

> LEGEND, INDEX, GENERAL NOTES, AND ABBREVIATIONS

RID SW1338, SW1339 SCALE



NOTES

- THE FIELD SURVEY WAS PERFORMED BY HOL ENGINEERING CONSULTANTS, LLC FROM SEPTEMBER 07, 2022 THROUGH SEPTEMBER 23, 2022. FIELD SURVEY INFORMATION FOR THIS PROJECT IS LOCATED IN M.O.A. TRAFFIC TERM FIELD BOOK 21-014 NO. 03 PAGES 2 THROUGH 18 AND 26
- 2. THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ANCHORAGE BOWL 2000 ADJUSTMENT, A LOCAL SURFACE GRID COORDINATE SYSTEM, EXPRESSED IN U.S. SURVEY FEET, DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION.
- 3. THE BASIS OF COORDINATES IS NGS STATION O'MALLEY, LOCATED NEAR THE INTERSECTION OF THE NEW SEWARD HIGHWAY AND O'MALLEY ROAD, SAID STATION HAS ANCHORAGE BOWL 2000 COORDINATES OF 303939.2310 N, 353362.5446 E. (U.S. SURVEY FEET).
- 4. THE BASIS OF BEARINGS IS A LOCAL PLANE BEARING BETWEEN NGS STATION O'MALLEY AND NGS STATION LOOP 2 USE RM 3 1964. NGS STATION LOOP 2 USE RM 3 1964 BEARS N 01°43'26.4" E A DISTANCE OF 49488.4476 FEET FROM NGS STATION O'MALLEY. NGS STATION LOOP 2 USE RM 3 1964 HAS ANCHORAGE BOWL 2000 COORDINATES OF 353405.2778 N, 354851.3982 E.
- 5. TO CONVERT THE LOCAL BOWL 2000 COORDINATES TO NAD 83 (92) ALASKA STATE PLANE, ZONE 4 COORDINATES, EXPRESSED IN U.S. SURVEY FEET; TRANSLATE USING +2,296,869.2529' N., +1,312,517.0656' E., AND SCALE USING 0.9998910192.
- 6. THE BASIS OF COORDINATES FOR THIS PROJECT IS POINT NUMBER 701, A FOUND 2-1/2" BRASS CAP IN A MONUMENT CASE JUST EAST OF THE INTERSECTION OF DEBARR ROAD AND EDWARD STREET. COORDINATES OF POINT 701 ARE 337563.6103 N., 369805.0609 E. AND ORIGINATE FROM THE A.K.D.O.T. SURVEY CONTROL DIAGRAM, DEBARR ROAD RESURFACING, PROJECT No. AKSAS 53433, PLAT No. 2015-121.
- 7. ELEVATIONS ARE BASED ON THE M.O.A. VERTICAL DATUM, 1972 N.G.S. ADJUSTMENT, FROM BENCHMARKS, "CB-9A", ELEV=224.76' AND "GAAB-16", ELEV=235.14'. SEE MOA WEBSITE "SURVEY BENCHMARKS" FOR FURTHER INFORMATION.
- 8. EASEMENTS OF RECORD OTHER THAN THOSE SHOWN MAY EXIST.
- 9. VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE AND ON A SEASONAL BASIS.

| | | С | OORDINATE | SCHEDULE | | | | | | |
|-------|----------|----------|-----------|-----------|-----------------------|--|--|--|--|--|
| POINT | STATION | OFFSET | NORTHING | EASTING | DESCRIPTION | | | | | |
| 701 | 4+54.76 | 0.00 RT | 337563.61 | 369805.06 | FOUND 2-1/2" MONUMENT | | | | | |
| 1 | 8+39.21 | 15.37 RT | 337948.14 | 369818.32 | SET 1-1/4" BRASS PLUG | | | | | |
| 702 | 10+00.00 | 0.00 RT | 338108.84 | 369802.08 | FOUND 5/8" REBAR | | | | | |
| 703 | 11+50.18 | 0.07 RT | 338259.02 | 369801.32 | FOUND 2" ALCAP | | | | | |
| 50 | 12+00.00 | 0.00 RT | 338308.84 | 369800.98 | ВОР | | | | | |
| 709 | 13+96.26 | 29.84 RT | 338505.26 | 369829.74 | FOUND 5/8" REBAR | | | | | |
| 710 | 15+48.42 | 29.49 LT | 338657.09 | 369769.59 | FOUND PLASTIC CAP | | | | | |
| 704 | 16+48.33 | 0.02 RT | 338757.16 | 369798.55 | FOUND 2" ALCAP | | | | | |
| 2 | 19+03.06 | 19.95 RT | 339012.00 | 369817.09 | SET 1-1/4" BRASS PLUG | | | | | |
| 705 | 19+52.70 | 0.01 LT | 339061.53 | 369796.85 | FOUND 2" ALCAP | | | | | |
| 3 | 22+76.46 | 21.25 RT | 339385.40 | 369816.34 | SET 1-1/4" BRASS PLUG | | | | | |
| 706 | 23+13.22 | 0.06 RT | 339422.04 | 369794.94 | FOUND 2" ALCAP | | | | | |
| 711 | 24+91.68 | 29.27 RT | 339600.66 | 369823.18 | FOUND 1/2" REBAR | | | | | |
| 707 | 26+42.51 | 0.05 LT | 339751.32 | 369793.03 | FOUND 2" ALCAP | | | | | |
| 51 | 28+00.00 | 0.00 RT | 339908.82 | 369792.22 | EOP | | | | | |
| 708 | 29+42.69 | 0.00 RT | 340051.50 | 369791.44 | FOUND 2" ALCAP | | | | | |





LEGEND

(XXX)

FOUND BRASS MONUMENT

FOUND ALUMINUM/PLASTIC CAP (1)

FOUND REBAR

0 SET BRASS PLUG

COMPUTED POINT NOTHING SET

SURVEY CONTROL POINT NUMBER TYPICAL BRASS PLUG

| | | | | | | | | | | | | | | | | | | _ |
|--|----------------------|-------------|---------------|---------------------|----------|---------------------------------------|---------|----------|-------------|----|----------------------------------|---|-------------------|-------------------|---|--|-------|---|
| RECORD DRAWING 1, DATA PROVIDED BY: | DATA | DRAWN BY | CHECKED BY | | | | | | | | S SENGINEEDING | of 4 | | TRAF | FFIC ENGINEERIN | NG DEPART | MENT | |
| THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF | TOPOGRAPHY | - | | | | | | | | | -DL ENGINEERING Consultantsuc | - A - A - A - A - A - A - A - A - A - A | The second second | 11A1 200 1777-177 | | AND DESCRIPTION OF THE PARTY OF | | _ |
| THE PROJECT AS CONSTRUCTED. | PROFILE | - | - | FIELD BOOKS | BM NO. | LOCATION | ELEV. F | REV DATE | DESCRIPTION | BY | | = 6 71 | APNITY OF AND | 22-24 | EDWARD STREET | PERMANENT | | |
| CONTRACTOR: | STORM SEWER | - | - | DESIGN SEE NOTE 1 | CB 9A | ROLLAR RINK BUILDING | 224.76 | | | | CIVIL ENGINEERING | ± 49™ × * | 1 0 P | | RADAR SPEE | D SIGNS | | |
| BY: DATE: | WATER/SANITARY SEWER | - 1 | _ | | GAAB 16 | WELLS FARGO BUILDING | 235.14 | | | | SURVEYING GEOTECHNICAL | 54 | 3/ | ı | 011111111111111111111111111111111111111 | | | |
| DATA TRANSFERRED BY:TITLE: | GAS | - | - | STAKING | 0 | | | | | | ENVIRONMENTAL | B GENE E. LEQUIRE : A | (· A (·) | | SURVEY C | ONTROL | | |
| COMPANY: DATE: | TELEPHONE | - | - | | | | | | | | | LS 6915 : C= | | 1 | SURVET | ONTROL | | |
| | ELECTRIC | 1-1 | - | | | | | | | | 3335 Arctic Blvd., Suite 100 | 1.3 2-10-23 8= | 11 == 7// | ı | | | | |
| BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. | DESIGN | - | - | ASBUILT | | | | | | | Anchorage, AK 99503 | 1100 Apr 120 | | 1 | | | | |
| [2] 이렇게 하면 있는데 하면 하면 하면 되었다. 이 나는데 아들은데 아들은 | QUANTITIES | - | | CONTRACTOR | BASIS OF | THIS DATUM 1972 N.G.S. ADJUSTED DATUM | | | | | (907) 564-2120 | ILLINGESSIONAL CONTRACTOR | | | | | | |
| DATA TRANSFER CHECKED BY: TITLE: | PRELIMINARY/FINAL | - | - | INSPECTOR | | | | | | | www.HDLalaska.com | | | HOR, 1"=80" | GRID SW1338, SW1339 | | 3 | |
| COMPANY: DATE: | MUNICIPAL/STATE | - | _ | | | | | | | | AECL861 | | | SCALE VER. N/A | | | of of | 6 |
| BY: | PLAN | CHECK | | CONSTRUCTION RECORD | | VERTICAL DATUM | | | REVISIONS | | CONSULTANT | SEAL | | VER. N/A | DATE FEB, 2023 ST | TATUS | SHEET | |

| RECORD DRAWING | DATA | DRAWN | CHECKED | | | | | | |
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| 1, DATA PROVIDED BY: | BASE | - | _ | 1 | | | | | ENGINEEDIN |
| THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF | TOPOGRAPHY | - | - | 1 | | | | | -DL ENGINEERIN Consultants |
| THE PROJECT AS CONSTRUCTED. | PROFILE | - | - | FIELD BOOKS | | | | BY | |
| CONTRACTOR: | STORM SEWER | | - | DESIGN | | | | | CIVIL ENGINEERING |
| BY: DATE: | WATER/SANITARY SEWER | - | - | | | | | | SURVEYING GEOTECHNICAL |
| 2. DATA TRANSFERRED BY: | GAS | - | - | STAKING | | | | | GEOTECHNICAL ENVIRONMENTAL |
| COMPANY: DATE: | TELEPHONE | _ | - | | | | | | |
| 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT | ELECTRIC | - | - | | | | | | 3335 Arctic Blvd., Suite 100 |
| SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. | DESIGN | - | - | ASBUILT | | | | | Anchorage, AK 99503 |
| [2017] 전 [2017] [1] [2017] 그 12 12 12 12 12 12 12 12 12 12 12 12 12 | QUANTITIES | 1 | === | CONTRACTOR | BASIS OF THIS DATUM | | | | (907) 564-2120 |
| DATA TRANSFER CHECKED BY: TITLE: | PRELIMINARY/FINAL | - | - | INSPECTOR | | | | | www.HDLalaska.com |
| COMPANY: DATE: | MUNICIPAL/STATE | _ | 22 | | | | | | AECL861 |
| BY: | PLAN | CHECK | | CONSTRUCTION RECORD | VERTICAL DATU | M | REVISIONS | | CONSULTANT |

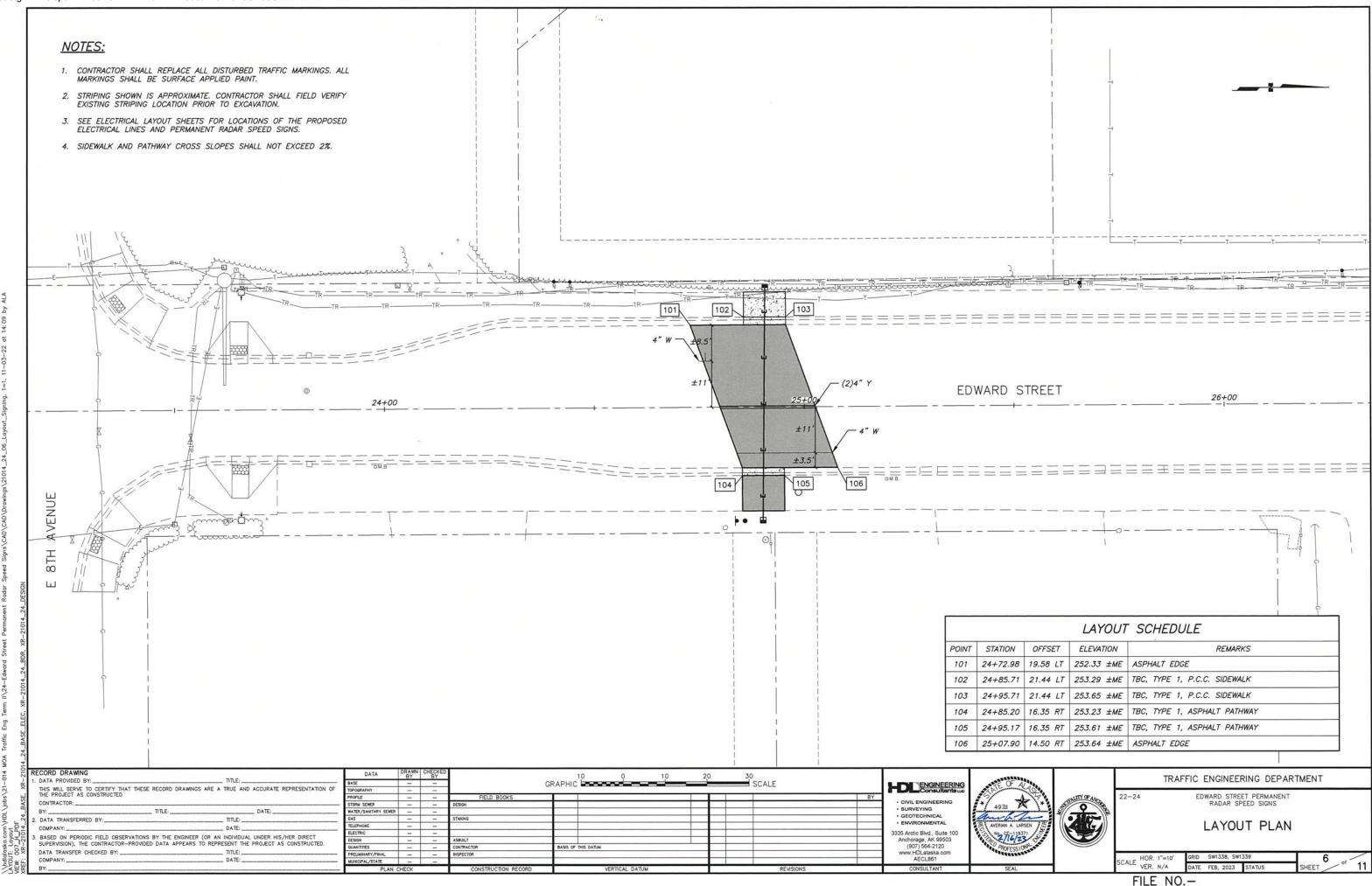
EDWARD STREET PERMANENT RADAR SPEED SIGNS

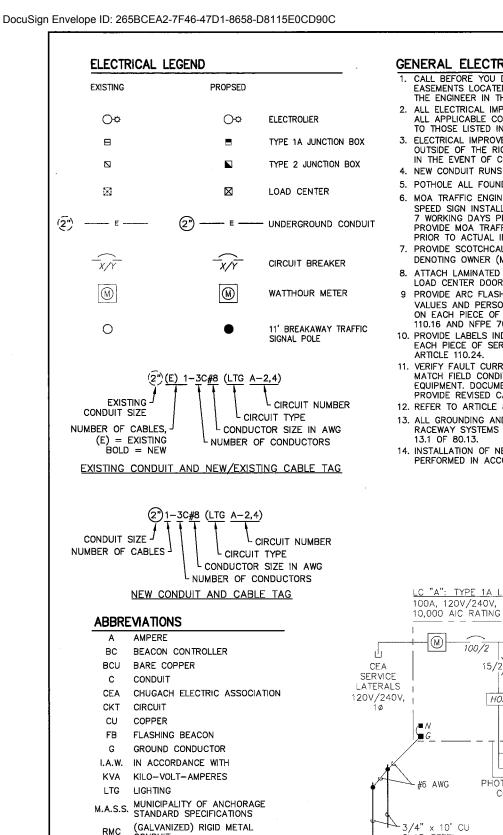
TRAFFIC ENGINEERING DEPARTMENT

TYPICAL SECTION

SCALE HOR. RID SW1338, SW1339 DATE FEB, 2023 STATUS

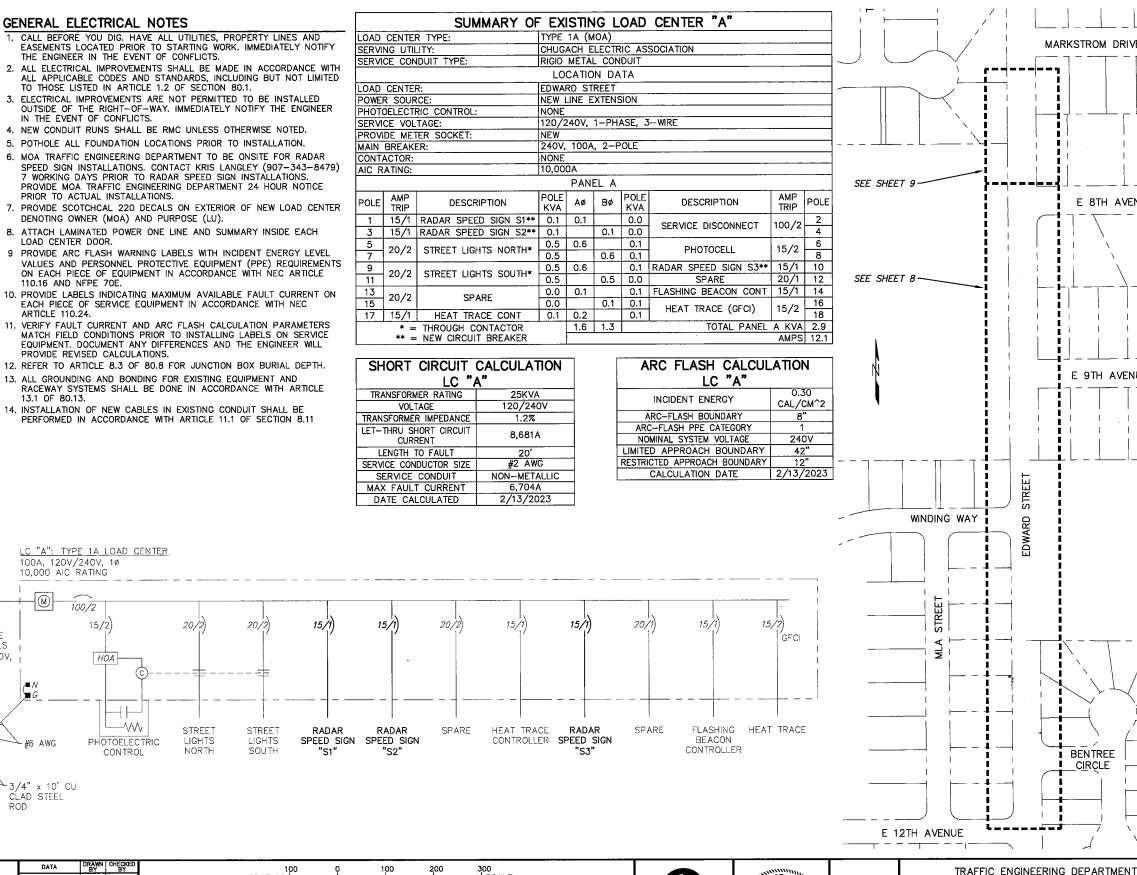
FILE NO.-





100/2

CLAD STEEL



RECORD DRAWING . DATA PROVIDED BY: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _ 2. DATA TRANSFERRED BY: TITLE: COMPANY: _ DATE: _ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION). THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED DATA TRANSFER CHECKED BY: _ TITLE:

CONDUIT

TYPICAL

VOLTS WATTS

RADAR SPEED SIGN

RSS

TYP

BY:_

DATA GRAPHIC ----FIELD BOOKS __ ANTITIES BASIS OF THIS DATUM

* 49™ EE-12053 2/13/2023

EDC, INC.

213 W. FIREWEED LANE ANCHORAGE, AK 99503 (907) 276-7933

LICENSE NO. AECC706

CONSULTAN

EDWARD STREET PERMANENT RADAR SPEED SIGNS 22-24

> LEGEND, ABBREVIATIONS, SITE PLAN, AND NOTES

BENTREE

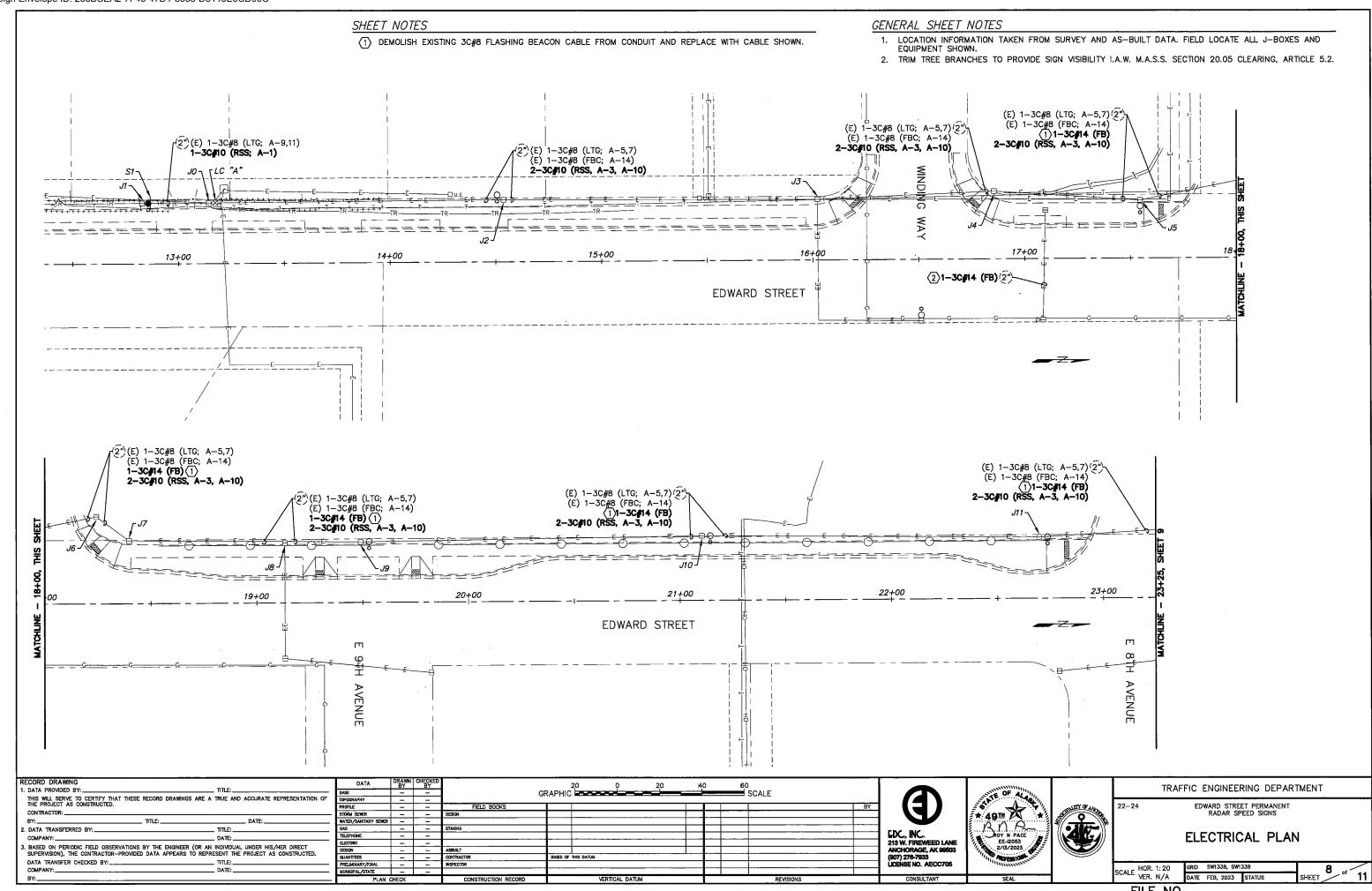
CIRCLE

MARKSTROM DRIVE

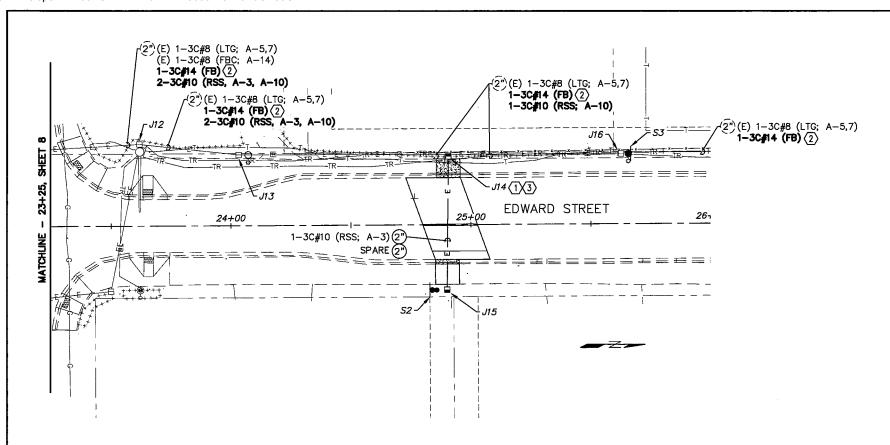
E 8TH AVENUE

E 9TH AVENUE

SCALE HOR. 1:100 VER. N/A GRID SW1338, SW1339 DATE FEB, 2023 STATUS SHEET



FILE NO.-



GENERAL SHEET NOTES

- 1. LOCATION INFORMATION TAKEN FROM SURVEY AND AS-BUILT DATA. FIELD LOCATE ALL J-BOXES AND EQUIPMENT SHOWN.
- 2. TRIM TREE BRANCHES TO PROVIDE SIGN VISIBILITY I.A.W. M.A.S.S. SECTION 20.05 CLEARING, ARTICLE 5.2.

SHEET NOTES

- (1) LOCATE EXISTING UNDERGROUND CONDUIT AND CUT CONDUIT. ADD NEW CONDUIT SECTIONS AND ELBOWS AS NECESSARY TO EXTEND RACEWAY TO NEW J-BOX.
- (2) DEMOLISH EXISTING 3C#8 FLASHING BEACON CABLE FROM CONDUIT AND REPLACE WITH CABLE SHOWN.
- 3 AFTER INSTALLATION OF NEW JB14, REPULL CONDUCTORS BETWEEN POLES NEAR J13 AND J16. PROVIDE 3' SLACK LOOP AT JB14. CONDUCTORS SHALL NOT BE SPLICED IN JB.

| | RADAR SIGN SCHEDULE | | | | | | | | | |
|----|---------------------|----------|---|--|--|--|--|--|--|--|
| # | STATION | OFFSET | REMARKS | | | | | | | |
| S1 | "E" 12+85.8 | 28.5' LT | NEW RADAR SPEED SIGN MOUNTED ON EXISTING ELECTROLIER | | | | | | | |
| S2 | "E" 24+85.7 | 27.1' RT | NEW RADAR SPEED SIGN MOUNTED ON NEW 11' BREAKAWAY TRAFFIC SIGNAL POLI | | | | | | | |
| S3 | "E" 25+65.8 | 29.1' LT | NEW RADAR SPEED SIGN MOUNTED ON EXISTING ELECTROLIER | | | | | | | |

| | LOAD (| CENTER | SCHEDULE |
|--------|-------------|----------|----------------------------|
| # | STATION | OFFSET | REMARKS |
| LC "A" | "E" 13+17.4 | 28.7' LT | EXISTING TYPE 1A, 120/240V |

| | JUNCTION BOX SCHEDULE | | | | | | | | |
|-------|-----------------------|----------|------|----------|-------------|--|--|--|--|
| J-BOX | STATION | OFFSET | TYPE | REMARKS | LOCATION | | | | |
| JO | "E" 13+14.3 | 28.6' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J1 | "E" 12+83.3 | 28.7' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J2 | "E" 14+53.7 | 29.3' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J3 | "E" 16+02.1 | 28.6' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J4 | "E" 16+85.6 | 31.9' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J5 | "E" 17+54.7 | 27.3' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J6 | "E" 18+24.3 | 41.1' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J7 | "E" 18+39.8 | 29.6' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J8 | "E" 19+13.4 | 28.3' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J9 | "E" 19+49.1 | 28.6' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J10 | "E" 21+10.5 | 30.5' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J11 | "E" 22+69.8 | 28.9' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J12 | "E" 23+62.0 | 34.0' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J13 | "E" 24+03.4 | 29.5' LT | 1A | EXISTING | SEEDED AREA | | | | |
| J14 | "E" 24+90.8 | 28.5' LT | 1A | NEW | SEEDED AREA | | | | |
| J15 | "E" 24+90.0 | 27.0' RT | 1A | NEW | SEEDED AREA | | | | |
| J16 | "E" 25+62.7 | 29.2' LT | 1A | EXISTING | SEEDED AREA | | | | |

| RECORD DRAWING | DATA | DRAWN | CHECKED | | 20 0 20 40 60 | |
|--|----------------------|-------|---------|---------------------|--------------------------|-----|
| 1. DATA PROVIDED BY: TILE: | BASE | | | G | GRAPHIC SCALE | - 1 |
| THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. | TOPOGRAPHY | | | | 50.02 | |
| | PROFILE | - | | FIELD BOOKS | | BY |
| CONTRACTOR: | STORM SEWER | _ | _ | DESIGN | | |
| BY: DATE: | WATER/SANITARY SEWER | | - | | | |
| 2. DATA TRANSFERRED BY: | GAS | | | STAKING | | |
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| ASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/FIRE DIRECT DESIGN D | | | | | | |
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| COMPANY: DATE: | PRELIMINARY/FINAL | | | INSPECTOR | | |
| DATE. | MUNICIPAL/STATE | | | | | |
| 84: | PLAN | CHECK | | CONSTRUCTION RECORD | VERTICAL DATUM REVISIONS | |



LDC., INC. 213 W. FIREWEED LANE ANCHORAGE, AK 99503 (907) 278-7933 LICENSE NO. AECC705



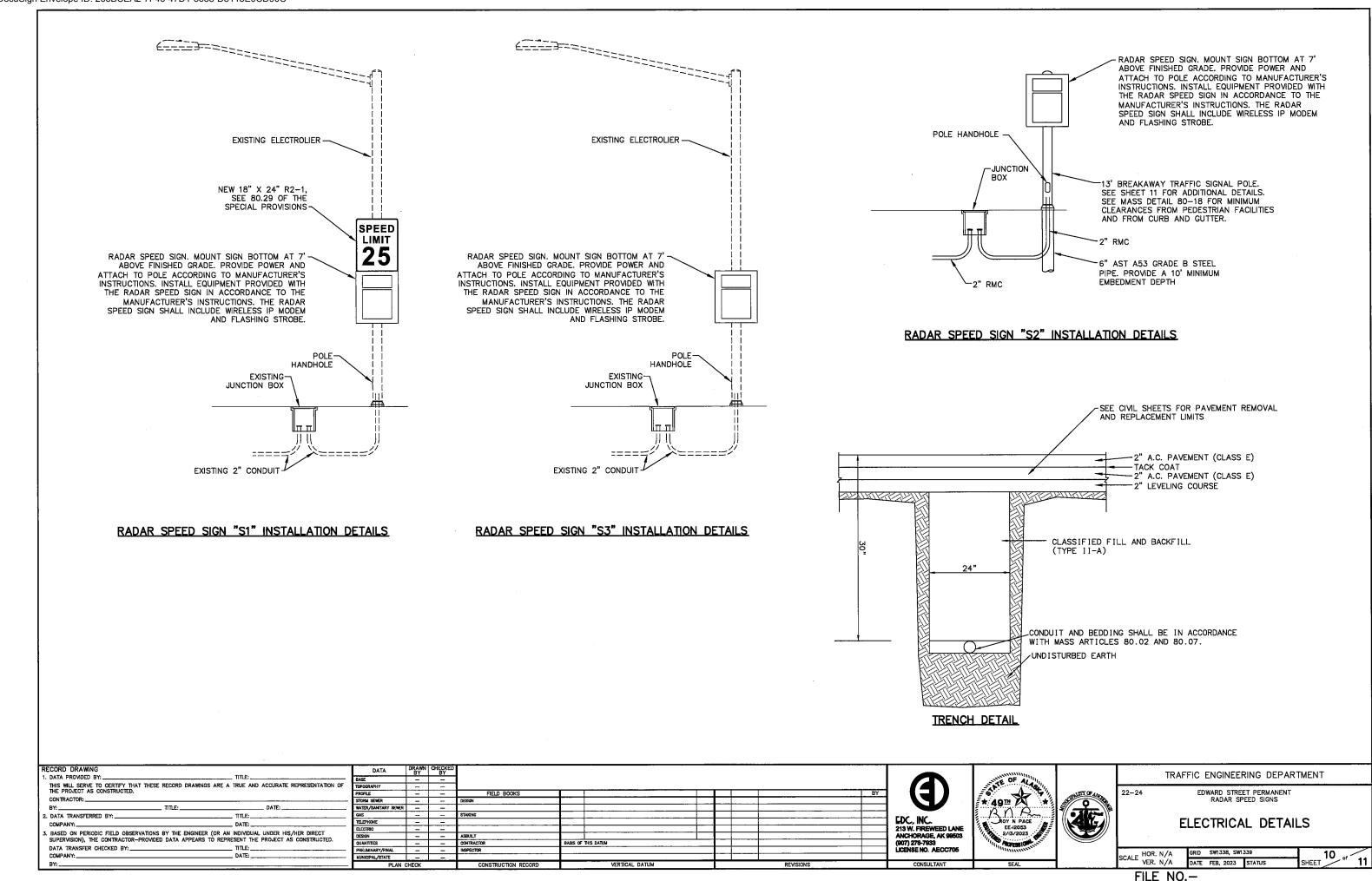


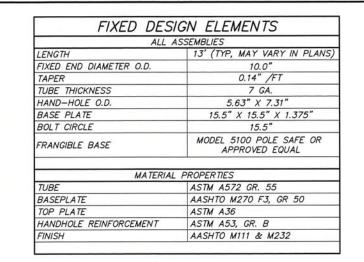
22-24

TRAFFIC ENGINEERING DEPARTMENT EDWARD STREET PERMANENT RADAR SPEED SIGNS

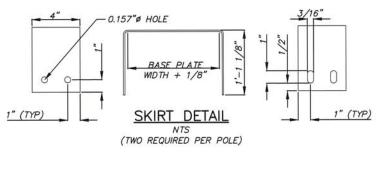
ELECTRICAL PLAN

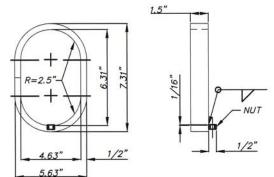
GRID SW1338, SW1339 SCALE HOR. 1: 20 VER. N/A SHEET DATE FEB, 2023 STATUS





| POLE DE | SIGN LOAL | DING |
|----------------|---------------------------|----------------|
| LOAD COMPONENT | EFFECTIVE AREA SQ. FT. | WEIGHT LBS. |
| 1 = RADAR SIGN | 9 | 42 |

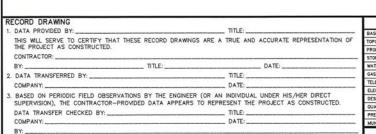




HANDHOLE DETAIL NTS

NOTES:

- 1. DESIGN POLE ASSEMBLIES TO THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRE AND TRAFFIC SIGNALS, M.A.S.S., SPECIFICATIONS AND THESE PLANS. DESIGN FOR A BASIC WIND SPEED OF 100 MPH, FATIGUE CATEGORY II.
- 2. POLES SHALL BE DESIGNED AND FABRICATED TO INCORPORATE ALL FIXED DESIGN ELEMENTS.
- 3. DESIGN AND FABRICATE TUBES FROM ONE PIECE OF TAPERED STEEL.
- 4. STEEL GREATER THAN 1/2" THICK SHALL CONFORM TO AASHTO M270 AND SHALL MEET THE FRACTURE CRITICAL CHARPY V-NOTCH IMPACT TEST REQUIREMENTS FOR ZONE 3.
- 5. INSTALL A 0.625" THICK 3003-H14 ALUMINUM SHEET SKIRT AROUND THE FRANGIBLE COUPLINGS FASTENED WITH STAINLESS SHEET METAL
- 6. THE TRAFFIC ENGINEERING DEPARTMENT WILL REJECT DAMAGED OR DEFECTIVE POLES FOR ANY OF THE FOLLOWING, INCLUDING BUT NOT
 - A. VARIANCES FROM APPROVED SHOP DRAWINGS.
 - B. VARIANCES FROM FIXED DESIGN ELEMENTS.
 - C. OUT OF ROUND. SECTIONS ARE OUT OF ROUND WHEN THE DIAMETERS OF ROUND MEMBERS EXCEED 2 PERCENT OF THE DIMENSION SPECIFIED ON THE SHOP DRAWINGS.
 - D. BOWED WITH SWEEPS EXCEEDING 0.75" INCH THROUGHOUT THE LENGTH OF THE POLE, MASTARM, OR SEGMENT. E. DAMAGED OR DENTED FINISHES.
- 7. WELD SIZE TO BE DETERMINED BY MANUFACTURER.
- 8. PROVIDE PERMANENT TAGS PER M.A.S.S. DIVISION 80, ARTICLE 5.6.
- 9. THIS DRAWING IS INTENDED FOR POLE DESIGN PURPOSES ONLY. ASSEMBLY CONFIGURATIONS ARE FOR LOADING PURPOSES AND MAY DIFFER FROM THOSE SHOWN IN PLANS. POLES HAVE NOT BEEN EVALUATED FOR LOADING CONDITIONS MORE SEVERE THAN THOSE SHOWN AND WILL REQUIRE INDIVIDUAL ANALYSIS WHEN ENCOUNTERED.
- 10. TERMINATE CONDUIT 1" ABOVE THE TOP OF THE ANCHOR PLATE. INSTALL A GROUNDING BUSHING ON THE END OF THE CONDUIT AND BOND TO THE ANCHOR PLATE.



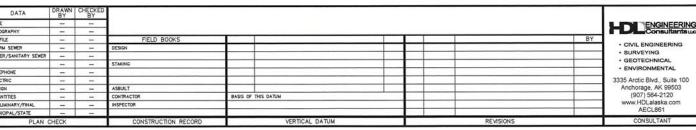
ELEVATION VIEW

YOUR

SPEED

FINISHED

GROUND-



- GROUND WIRE

VT+UT

SIGNAL

1.125" DIAMETER

HOLE (TYP) ON A 15.5" DIAMETER BOLT CIRCLE

1-3/8" THICK BASE

SOCKET TYPE JOINT

1.5" RADIUS (TYP)

FINISHED-

GROUND

MOUNT

REINFORCED

HANDHOLE AND COVER

MAXIMUM

SEE SHEET 10

POST AND BASE

NTS

15.5" SQUARE

VIEW A-A

PLAN VIEW OF BASE PLATE

-FRANGIBLE BASE ANCHOR PLATE

49 IH

· SURVEYING

· GEOTECHNICAL

Anchorage, AK 99503 (907) 564-2120 www.HDLalaska.com

AFCI 861



22-24

TRAFFIC ENGINEERING DEPARTMENT

EDWARD STREET PERMANENT RADAR SPEED SIGNS

BREAKAWAY TRAFFIC SIGNAL POLE