

ADDENDUM NO. 1
TO THE BID DOCUMENTS
Main Street Sidewalk Improvement Project
CITY OF HOMER, ALASKA

Addendum Issue Date: April 22, 2022

Bid Submittal Date: May 3, 2022

Previous Addenda Issued: None

Issued By: Janette Keiser, PE
Public Works Director
City of Homer

Notice to Bidders:

Bidders must **acknowledge receipt of this addendum** by including the Addenda Acknowledgement Form with the bid.

Bidders are required to acknowledge each addenda separately on the Addenda Acknowledgement Form. Any bids received without acknowledgment of addenda may be rejected prior to evaluation.

The Bid Documents for the above project are amended as follows (all other terms and conditions remain unchanged):

In response to a concern from a prospective bidder, that some of the inlet boxes did not meet Alaska Department of Transportation specifications, sheet D4 has been updated to show revised inverts for: P1-2 inlet, P3-1 inlet and P4-1 outlet.

The City noticed that the existing storm drain pipe section from Pioneer Avenue to Fairview Avenue on sheets F1 – F4 of the plans has been mislabeled as 24” pipe when it is actually 36” pipe. The transition from 36” pipe to 24” pipe is made at the manhole closest to Fairview Avenue shown on sheet F4. Additionally, the City noticed that the invert elevations of the existing manholes were not indicated on the plans. To clarify both of these points, we have attached as-builts for the existing storm drain pipe. It should be noted that these as-builts use the NGVD 1929 datum rather than the NAVD 1988 datum used by the plans.

Two new bid items have been added; ditch lining and painted traffic markings. The bid form, special provisions and plans have been revised to reflect these additions.

The following documents are attached to this addendum:

- 1. Revised bid form**
- 2. Revised special provisions**
- 3. Revised plans**
- 4. New Plan Sheet D4**
- 5. As-builts for the 1981 Main Street Improvements**
- 6. As-builts for the 1982 Fairview Avenue/Main Street Road and Utility Improvements**

BID FORM**Main Street Sidewalk Improvement**

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION	UNIT	QUAN TITY*	UNIT BID PRICE	TOTAL BID PRICE
1	101	Mobilization & Demobilization	LS	1		
2	102	Construction Survey	LS	1		
3	103	Traffic Control	LS	1		
4	104	Painted Traffic Markings	LS	1		
5	202	Grubbing & Clearing	Acre	1.5		
6	203	Removal of Obstructions	LS	1		
7	204	Unclassified Excavation	CY	2,480		
8	205	Type II Classified Fill	CY	95		
9	205	Type III Classified Fill	CY	3,255		
10	206	Levelling Course	TON	470		
11	220-1	Reconstruct Approach	EA	5		
12	220-2	Reconstruct Driveway	EA	10		
13	221	Ditch Lining	TON	13		
14	302	Curb & Gutter, Type 1	LF	2,927		
15	304	Curb Ramp	EA	9		
16	401	HMA, Type II; Class A	TON	270		
17	404	Install Asphalt Sidewalk	TON	154		
18	512	Adjust Manhole Ring	EA	1		
19	515-1	Reconstruct Existing Manhole	EA	8		

20	515-2	Inlet, Type A	EA	8		
21	607	Adjust Valve Box	EA	15		
22	609	Adjust Fire Hydrant	EA	3		
23	702	Geotextile Fabric	SY	1,900		
24	707	Standard Signs	EA	6		
25	707	Salvage Sign	EA	6		
26	708	Seeding	LB	25		
27	710	Topsoil	SY	1,667		
28	711	SWPPP Implementation	LS	1		
29	712	Reconstruct Fence	LF	40		
30	802	Furnish & Install CSP 12 Inch	LF	152		
31	802	Furnish & Install CSP 18 Inch	LF	267		
32	802	Furnish & Install CSP 24 Inch	LF	310		
33	802	Furnish & Install CSP 18 Inch End Section	EA	4		
34	802	Furnish & Install CSP 24 Inch End Section	EA	1		
35	804	Storm Drain Manhole	EA	7		

Grand Total All Bid Items: \$_____

Name of Bidding Company_____

Address of Bidding Company_____

Signature of Company Representative _____ Date _____

Printed Name of Company Representative_____

Phone#/Email_____

*The quantities given are the basic bid and the additive alternative combined as shown on sheets C1 and C2 of the plans.

SPECIAL PROVISIONS

Main Street Sidewalk Improvement

The construction contract for this project will be administered in accordance with the General Provisions of the City's Standard Construction Specifications (2011).

MODIFICATIONS TO GENERAL PROVISIONS

SP - 1: Section 10.04 – Add New Article 4.6 – Scope of Work

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, specifications, and the terms of the Contract, including, but not limited to the following work:

- Furnishing and installation of 154 tons of asphalt sidewalk that will be placed along an approximately 2,900 foot section of Main Street from Pioneer Avenue to Dehel Avenue.
- Furnishing and installation of 2,927 feet of curb and gutter, including 9 curb ramps.
- Removal of pavement (2,474 SY), existing sidewalk (43 SY), culvert pipe (605 LF), curb and gutter (73 LF) and two trees.
- Performing 2,480 CY of unclassified excavation.
- Backfilling with 95 CY of type II classified fill and 3,255 CY of type III classified fill and laying of 470 tons of leveling course.
- Furnishing and installation of 20 CSP culvert sections including 152 LF of 12 inch culvert, 267 LF of 18 inch culvert and 310 LF of 24 inch culvert. This shall include end sections from 18 and 24 inch culverts.
- Installation of new signs and salvaging of existing signs.
- Furnishing and installation of 7 storm sewer manholes, 8 Inlets and reconstruction of 8 existing manholes.
- Reconstruction of 10 driveways and 5 approaches.
- Reconstruction of 40 LF of fence.
- Furnishing and installation of 1,667 SY of topsoil and spread 25 lbs. of seeds.
- Adjustment of 3 fire hydrants, 15 valve boxes and a water manhole.
- Work required for SWPPP Implementation.
- Traffic Control.

The quantities given are the basic bid and the additive alternative combined as shown on sheets C1 and C2 of the plans.

SP – 2 Article 5.12 – Temporary Erosion Control During Construction

Add the following language:

“The City has prepared a Storm Water Pollution Prevention Plan (SWPPP), which will be included in the bid package. The Contractor is required to implement the Best Management Practices in the SWPPP and otherwise comply with the terms of the SWPPP. Compensation will be paid under Bid Item #20, SWPPP Implementation.”

SP - 3: Article 5.19 – Easement and Rights-of-way

Add the following language:

“The Contractor will be provided access to a laydown area for material storage, job shack, and other uses. The location of this area will be shown in the site map.”

SP - 4: Article 5.25 - Unusual Work Hours

Add the following sentence:

“The noise level from work completed before 8:00 AM and after 8:00 PM cannot exceed 75 db at a distance of 50 feet.”

MODIFICATIONS TO STANDARD SPECIFICATIONS

DIVISION 100 GENERAL DIVISION

SP – 5: Modify Subsection 102.1 General

Add the following paragraph:

“The Contractor shall submit all survey data with each pay application; Field Books with sketches, professionally scaled plan set redlines, electronic survey coordinates. These items shall be submitted in entirety within 10 days of the project completion. In addition, the as-built information shall also be in NAD 83 datum, the City of Homer will provide the coordinate system at the time of contract award.”

SP – 6: Add Section 104 Painted Traffic Markings

104.1 General

Furnish and place traffic markings of the type, color, dimensions, and at the locations shown on the Plans. Meet these specifications and the applicable portions of the Alaska Traffic Manual.

104.2 Material

1. Paint.

Use one of the following:

- a. Solvent Base Traffic Marking Paint. Paint must meet the requirements of Federal Specification A-A-2886B, Type II – Fast Dry – 10 minutes no pick up; lead free yellow (or all colors); or
- b. Waterborne Traffic Marking Paint. Paint must meet the requirements of Federal Specification TT-P1952 F, Type II, or Type III; or
- c. The current State of Alaska DOT&PF maintenance specification for pavement marking paint.

2. Preformed Pavement Marking Tape

a. General Requirements:

- i. Reflectorized plastic pavement markings and legends. Furnish a pliant polymer or homogenous preformed ribbon, 60 mils thick and of specified width, containing glass spheres uniformly distributed throughout the entire cross section. Furnish type that is designed to be inlaid on hot asphalt pavement or attached to existing bituminous pavement with a precoated pressure adhesive or liquid contact cement as herein specified.
- ii. Use legends and symbols meeting the applicable shapes and sizes in the Alaska Traffic Manual and the Plans.
- iii. Ensure that the plastic marker will mold itself to pavement contours, breaks, faults, etc. at normal pavement temperatures and fuse with itself and with previously applied markings of the same composition under normal conditions of use.

- b. Composition Requirements: Furnish marker with the following materials uniformly distributed throughout its cross-sectional area, and with a reflective layer of beads bonded to the top surface:

Material	(Composition by Weight, min.)
Resins & Plasticizers	20%
Pigments	30%

c. Physical Requirements:

- i. Tensile Strength. Minimum tensile strength of 100 psi when tested according to ASTM D638.
- ii. Plastic Pull Test. A test specimen made by cutting two 1- inch by 3- inch pieces of the plastic and attaching a 1-inch by 1-inch area at the end of each

piece to the other, must support a dead weight of 4 pounds for not less than 5 minutes at a temperature between 70 °F and 80 °F.

- iii. Pigmentation. Select and blend the pigments to provide a marking film which includes titanium dioxide for white markers and medium chrome yellow for yellow markers meeting standard highway colors through the expected life of the film.
- iv. Skid Resistance. Meet a minimum skid resistance value of 40 BPN for the surface of the plastic using ASTM E303.
- v. Reflectance. Meet the following initial minimum reflectance values for white and yellow films at 0.2° and 0.5° observation angles and 86.0° entrance angle using FSS FED-STD-370. Use a test distance of 50 feet and a 2-foot x 2.5-foot rectangular sample. Express specific luminance (SL) as millicandelas per ft² per foot candle.

Use an angular aperture of both the photoreceptor and light projector of 6 minutes of arc. Use the geometric center of the sample as the reference center and the reference axis perpendicular to the test sample.

Observation Angle	White		Yellow	
	0.2°	0.5°	0.2°	0.5°
Specific Luminance	550	480	410	250

- vi. Certification. In lieu of running the tests required by this Subsection, provide a certification from the manufacturer stating the product conforms to these requirements.
- vii. Effective Performance Life. Provide a neat, durable marking that will not flow or distort due to temperature if the pavement surface remains stable.

The plastic must be weather resistant and through normal traffic wear, show no appreciable fading, lifting or shrinkage and show no significant tearing, roll back, or other signs of poor adhesion.

- d. Application: Use a vendor-furnished mechanical applicator for the installation of a 4-inch wide pressure sensitive adhesive coated material. Provide the mechanical applicator on location for the duration of the installation period. Ensure that a manufacturer's representative is present during the time of the installation to provide technical assistance.

104.3 Construction

- 1. Paint
 - a. Apply paint only to pavements that are clean, dry, and warmer than 40 °F.

- b. Remove all dirt, oil, grease, and other foreign matter from the surfaces to be painted in a satisfactory manner.
 - c. Apply the paint at the rate of 80 ft²/gal (approximately 20 mils wet film thickness). This rate is effectively 22 gallons of paint per mile of solid 4- inch stripe. A tolerance not to exceed 10 percent is allowed for film thickness or yield.
 - d. Apply glass beads over the wet painted stripes in a uniform pattern at the rate of 6 pounds (\pm 0.1 pound) of beads per gallon of paint. Pressure- apply the beads using a mechanical dispenser mounted not more than 12 inches behind the paint dispenser.
 - e. Use approved equipment for highway lane striping that is specifically designed and manufactured for that purpose by a company experienced in the design and manufacture of such equipment. Minimum requirements include the capability of striping two 4- inch yellow centerlines and one 4- inch white edge line simultaneously. Apply markings with clear-cut edges, true and smooth alignment, and uniform film thickness.
2. Preformed Marking Tapes (PMT). Apply the PMT material as directed by the manufacturer by either the inlay or overlay method. Use the inlay method whenever new asphalt concrete is placed. Use the overlay method to apply markings to existing pavement.

Store all PMT materials between 60 °F and 85 °F for at least 24 hours prior to installation. During installation, maintain field stockpiles at the required storage temperature.

For the inlay method, embed the pavement markings in the asphalt concrete surface with a conventional steel wheeled roller. Apply when the surface temperature of the mat is the warmest possible without deforming the marking. The minimum allowable surface temperature, taken within 3/8 inch of the top of the mat, is 140 °F. If the application of the PMT materials falls behind the paving operation to the extent that the markings are not being applied at the minimum acceptable temperature, slow the paving operation to match the rate of the marking laydown. Resume full paving operations after demonstrating that you have sufficiently skilled personnel to install the markings within the required temperature limits.

When applying pavement markings by the overlay method, ensure the surface is clean and dry and is at least 60 °F and rising. Broom the surface clean. Remove any dust using compressed air. Apply a coat of primer/adhesive activator according to the manufacturer's recommendations. Install and roll the markings with a minimum 200-pound pneumatic roller.

3. Raised and Recessed Pavement Markers. Install raised and recessed pavement markers per the manufacturer's instructions.

Cut or dado the finished pavement surface with a concrete saw to produce a slot with dimensions as shown on the Plans or recommended by the manufacturer. Clean and dry the slots using compressed air. Install a reflective marker of the color indicated with an epoxy adhesive recommended by the marker manufacturer.

104.4 Method of Measurement

Painted Traffic Markings shall be measured as a lump sum.

104.5 Basis of Payment

The accepted quantity of Painted Traffic Markings shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
104	Painted Traffic Markings	LS

DIVISION 200 EARTHWORK

SP – 7: Add Section 220 Driveways

220.1 General

Construct residential or commercial driveways at the locations shown on the plans.

220.2 Material

Use materials that conform to the standards of the main roadway.

220.3 Construction

Construct driveways to the dimensions shown on the plans.

220.4 Method of Measurement

Driveways shall be measured as units complete in place.

220.5 Basis of Payment

The accepted quantities of reconstructed driveways and reconstructed approaches shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
220-1	Reconstruct Approach	EA

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
220-2	Reconstruct Driveway	EA

SP - 8: Add Section 221 Ditch Lining

221.1 General

Construct ditch lining at the locations on the Plans or as staked.

221.2 Material

Use stones that are sound and durable, are no larger than 8 inches in greatest dimension, and not more than 50 percent by weight passing a 3- inch sieve, and not more than 5% passing a 1-inch sieve, as determined by ATM 304.

221.3 Construction

Excavate to the dimensions shown on the Plans. Place and spread ditch lining materials so that the finished face is reasonably uniform and conforms to the lines and slope shown on the Plans or as directed.

221.4 Method of Measurement

Ditch lining shall be measured as TONS in place.

221.5 Basis of Payment

The accepted quantity of ditch lining shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
221	Ditch Lining	EA

DIVISION 300 PORTLAND CEMENT CONCRETE

SP - 9: Add Section 304 Curb Ramps

304.1 General

This work shall consist of the construction of curb ramps in conformance with the plans.

304.2 Material

The Portland Cement concrete and all other materials used in construction of curb ramps must conform to *Division 300 – Standard Construction Specifications for Portland Cement Concrete – Subsection 301.3 Material*. Concrete mix for curb ramps shall conform to requirements for the Class AA-3.

304.3 Construction

Construct curb ramps according to the details and the locations shown on the Plans. Follow the construction requirements of Subsection 303.3. Give the exposed concrete surface a coarse broom finish. Install detectable warnings.

Measure curb ramp slopes with a 24-inch electronic level. Calibrate and operate the level according to the manufacturer's instructions.

304.4 Method of Measurement

Curb ramps shall be measured as units complete in place.

304.5 Basis of Payment

The accepted quantity of curb ramps shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
304	Curb Ramp	EA

DIVISION 400 ASPHALT CONCRETE PAVEMENT

SP - 8: Add Section 404 Asphalt Sidewalks

404.1 General

This work shall consist of the construction of asphalt sidewalks in conformance with the plans.

404.2 Material

- A. Bed Course Material:** Crushed stone or crushed gravel, consisting of sound, tough, durable pebbles or rock fragments of uniform quality. Free from clay balls, vegetable matter, or other deleterious matters. Meet Table 404.2.1:

Table 404.2.1: Aggregate Properties for Base and Surface Course

PROPERTY	BASE COURSE	SURFACE COURSE	TEST METHOD
L.A. Wear, %	50, max.	45, max.	AASHTO T 96
Degradation Value	45, min.	45, min.	ATM 313
Fracture, %	70, min.	70, min., 1 Face	ATM 305
Liquid Limit	---	35, max.	ATM 204
Plastic Index	6, max.	10, max	ATM 205
Sodium Sulfate Loss	9, max. (5 cycles)	9, max. (5 cycles)	AASHTO T 104

- B. Asphalt Binder:** Meet AASHTO M320 for the specified performance grade. Use PG 52-28 if no grade is specified.
- C. Aggregate, Type II or III:** Process and crush aggregate that is free from clay balls, organic matter, other deleterious material, and not coated with dirt or other finely divided mineral matter. Aggregate used must consist of sound, tough, durable rock of uniform quality.

Remove all natural fines passing a No. 4 sieve before crushing aggregates for Type IV mixes.

Coarse Aggregate. Aggregate retained on the No. 4 Sieve.
Meet Table 404.2.2:

Table 404.2.2: Coarse Aggregate Quality for HMA

Description	Specification	Type II, Class A	Type I, Type II Class B, Type III	Type IV	Type V	Type SP
L.A. Wear, % max.	AASHTO T96	45	45	45	45	45
Degradation Value, min.	ATM 313	30	30	30	30	30
Sodium Sulfate Loss, % max. (5 cycles)	AASHTO T104	9	9	9	9	9
Fracture, % min.	ATM 305	90, 2 face	80, 1 face	90, 2 face	98, 2 face	90, 2 face
Flat-Elongated Pieces, % max. 1:5	ATM 306	8	8	8	8	8
Absorption, % max.	ATM 308	2.0	2.0	2.0	2.0	2.0
Nordic Abrasion, % max.	ATM 312	---	---	---	8.0	8.0

Fine Aggregate. Aggregate passing the No. 4 sieve. Fine aggregate shall meet the quality requirements of AASHTO M29, including S1.1, Sulfate Soundness.

Fine aggregate for Type II, Class A mix shall not contain more than 20 % natural fines (blend sand and mineral filler) added to the crushed aggregate, and shall not exhibit rut depth larger than 6.0 mm as determined by ATM 419.

Fine aggregate for Type IV mixes:

- Do not blend natural sand
- Shall be non-plastic as determined by ATM 205
- Shall have a minimum uncompacted void content (Fine Aggregate Angularity) determined by AASHTO T304, Method A, of 45%

Table 404.2.3: Broad Band Gradations for Not Mix Asphalt Aggregate
Percent Passing by Weight

Sieve	Gradation					
	Type I	Type II	Type III	Type IV	Type V	Type SP
1 inch	100					
¾ inch	80-90	100			100	100
½ inch	60-84	75-90	100	100	65-90	90-100

3/8 inch	48-78	60-84	80-90	80-95	55-80	74-90
No. 4	28-63	33-70	44-81	55-70	40-60	42-54
No. 8	15-55	19-56	26-70	35-50	≤ 45	25-35
No. 16	9-44	10-44	16-59	20-40	≤ 35	---
No. 30	6-34	7-34	9-49	15-30	≤ 25	---
No. 50	5-24	5-24	6-36	10-24	≤ 20	---
No. 100	4-16	4-16	4-22	5-15	≤ 12	---
No. 200	4-7	4-7	4-7	4-7	4-7	2-10

- D. Mix design Requirements (ATM 417):**
 Marshall Stability, lb., min. 1000
 Percent Voids, Total Mix 2-5
 Compaction, Blows/side 50

404.3 Construction

Place bed course material in layers. Compact it according to Subsection 401.3.

Place asphalt material on the compacted bed course in one or more courses as indicated on the Plans. Compact it uniformly to the required depth. Use a power roller of an acceptable type and weight. In areas inaccessible to the roller, use other approved methods.

404.4 Method of Measurement

Asphalt sidewalk shall be measured as TONS in place.

404.5 Basis of Payment

The accepted quantity of asphalt sidewalk shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
404	Asphalt Sidewalk	TON

DIVISION 500 SEWER SYSTEMS

SP – 9: Add Section 515 Reconstruct Manholes and Inlets

515.1 General

This work shall consist of the reconstruction of existing manholes and the construction of new inlets in accordance with the plans.

515.2 Material

All materials used in the reconstruction of existing manholes or the construction of inlets must conform to *Division 500 – Standard Construction Specifications for Sewer Systems – Subsection 503.2 Material*.

515.3 Construction

Install inlets consisting of a precast concrete catch basin box, risers, metal frame and grate as shown on the Plans. Grout pipes into place.

Use full mortar joints no more than 1/2 inch wide.

Fit each pipe section flush on the inside of the structure wall and to project far enough outside to connect properly with the next pipe section. Fit masonry neatly and tightly around the pipe. Construct invert channels in all manholes used for sanitary or combined sanitary and storm sewers. Construct channels to be smooth and semicircular to conform to the inside of the adjacent sewer sections. Make changes in flow direction along a smooth curve with as large a radius as the manhole size permits. Make gradual and even changes in channel size and grade.

Form invert channels by using any of the following methods:

1. Directly in manhole concrete base
2. Built up with brick and mortar
3. Laying half tile in concrete
4. Breaking out the top one-half of full sections of pipe, laid through the manhole, after the surrounding concrete has hardened

Reconstruct or replace components of existing manhole or manhole top section by using one or more of the following methods:

1. Bring the manhole frame and cover to grade if you remove the cone for lowering.
2. Raise the manhole frame and cover more than 12 inches.
3. Reconstruct a portion of the manhole with no change in line or grade.
4. Tap one or more additional pipes into an existing manhole.
5. Rotate the manhole cone to align the lid to the shoulder, lane line, or middle of driving lane.

6. Rotate the manhole cone to align the inlet casting to the curb line.
7. Align the access stairs by rotating the barrel sections or install new steps.

Reconstruct the manhole or manhole top section to the required elevation so that it conforms to plan details. Complete this work according to the requirements for new construction. Reuse material only if the Engineer approves.

Do not impede existing sewer flow during construction.

515.4 Method of Measurement

Reconstructed manholes and inlets shall be measured as units complete in place.

515.5 Basis of Payment

The accepted quantities of reconstructed manholes and inlets shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
515-1	Reconstruct Existing Manhole	EA
 <u>Pay Item</u>	 <u>Description</u>	 <u>Unit</u>
515-2	Inlet, Type ()	EA

DIVISION 600 WATER SYSTEMS

SP - 10: Add Section 609 Adjust Existing Fire Hydrant

609.1 General

This work shall consist of adjustment of fire hydrants in accordance with the plans.

609.2 Construction

Tighten stuffing boxes and inspect the hydrants in opened and closed positions to make sure that all parts are in working condition.

Adjust existing fire hydrants for grade, using barrel extensions according to the hydrant manufacturer's recommendations.

609.3 Method of Measurement

Adjust fire hydrants shall be measured as units complete in place.

609.4 Basis of Payment

The accepted quantity of adjusted fire hydrants shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
609	Adjust Fire Hydrant	EA

DIVISION 700 MISCELANEOUS CONSTRUCTION

SP - 11: Add Section 711 SWPPP Implementation

711.1 General

This work shall consist of the construction and maintenance of BMPs in accordance with the SWPPP and the performance of all other work required by the SWPPP.

711.2 Method of Measurement

SWPPP Implementation shall be measured as a lump sum.

711.3 Basis of Payment

The accepted quantity of SWPPP Implementation shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
711	SWPPP Implementation	LS

SP - 12: Add Section 712 Reconstruct Fence

712.1 General

This work shall consist of reconstruction of existing fences.

712.2 Method of Measurement

Reconstruct Fence shall be measured as units complete in place.

712.3 Basis of Payment

The accepted quantity of reconstructed fence shall be paid at the contract unit price, complete and in place.

Payment will be made under:

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>
712	Reconstruct Fence	EA

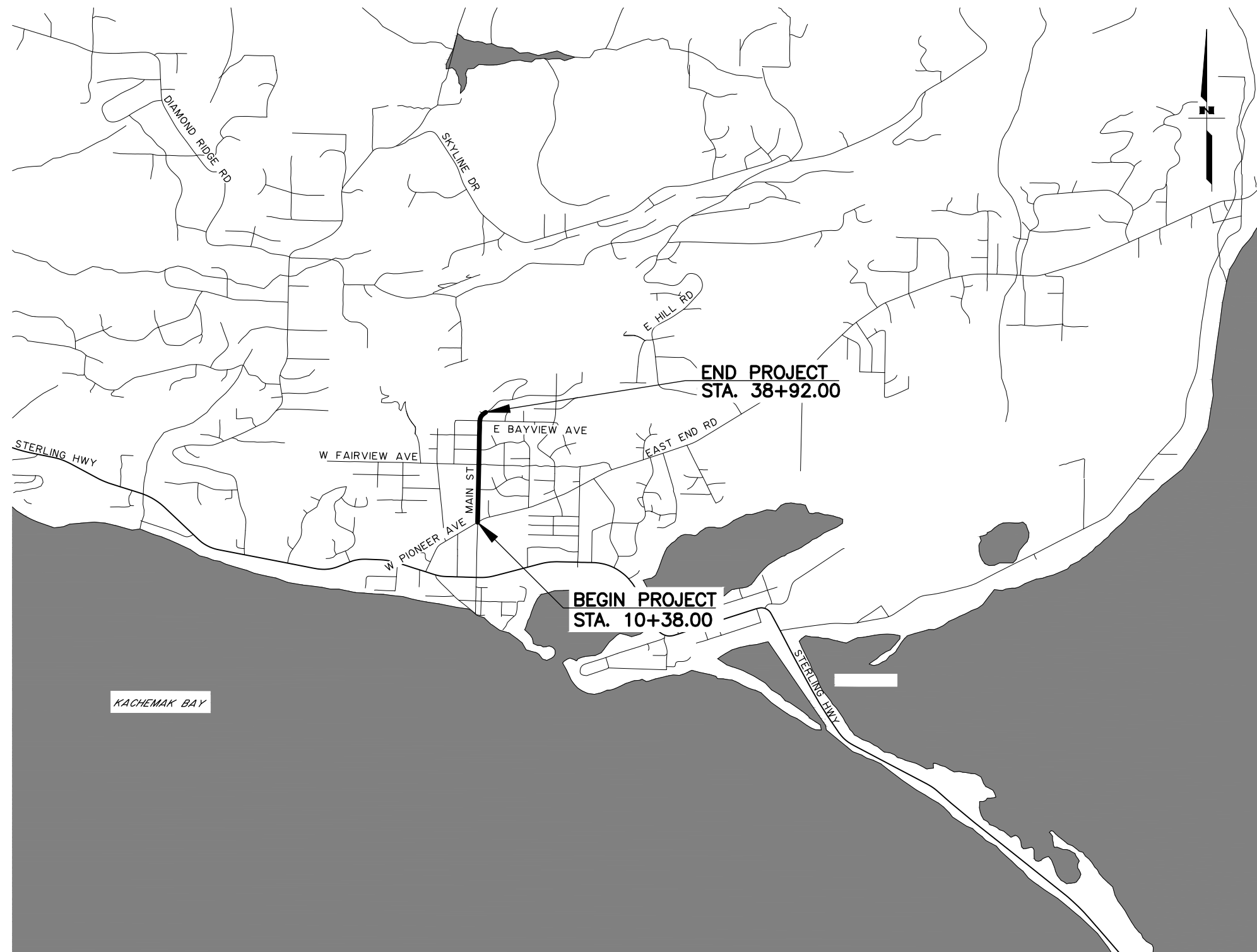
WP DRAFTED NMO CHECKED DAD DESIGNED A1 LAYOUT 4/11/2022 1:01 PM DATE/TIME 4/11/2022 1:01 PM [LAYOUT] A1 [DESIGNED] DAD [CHECKED] NMO [DRAFTED] WP [FILE] H:\JOBS\17-014-HOMER-ROADS-DRAINAGE-AND-TRAILS-TERM-(HOMER)\TASK-2-MAIN-STREET-(PHASE-1)-SIDEWALK-DESIGN\CAD-DRAWINGS\17014_02_A01.DWG

NO.	DATE	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0782	2022	A1	A4

CITY OF HOMER PUBLIC WORKS DEPARTMENT

MAIN STREET SIDEWALK IMPROVEMENT PROJECT NO. 160-0782



HOMER CITY COUNCIL

MAYOR
KEN CASTNER

COUNCIL MEMBERS
DONNA ADERHOLD
RACHEL LORD
JASON DAVIS
SHELLY ERICKSON
CAROLINE VENUTI
STORM HANSEN-CAVASOS
MAYOR KEN CASTNER
CITY MANAGER ROB DUMOUCHEL

FUNDED THROUGH HARP
(HOMER ACCELERATED ROAD PROGRAM)

APPROVED BY:

JANETTE KEISER, PE
DIRECTOR OF PUBLIC WORKS

H:\JOBS\17-014_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE 1) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_A02.DWG
 DATE 4/11/2022 1:00 PM
 SCALE NTS
 DESIGNED BY NMO
 CHECKED BY NTS
 DRAFTED BY NTS

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	A2	A4

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2020 ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, THE ALASKA STANDARD PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT, EXCEPT WHERE SPECIFIED IN THESE PLANS.
- 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. THESE REQUIREMENTS SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLIANCE WITH THE APDES CONSTRUCTION GENERAL PERMIT AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, AND FOR SECURING ALL NECESSARY CLEARANCES, RIGHTS, AND PERMITS.
- THE CONTRACTOR SHALL ACCEPT A DELEGATION OF AUTHORITY FROM THE CITY TO ACT AS THE CITY'S DULY AUTHORIZED REPRESENTATIVE FOR THE PURPOSE OF OVERSEEING COMPLIANCE WITH THE APDES CONSTRUCTION GENERAL PERMIT AT THE PROJECT SITE AND INCLUDE THE CITY'S DELEGATION OF AUTHORITY IN THE SWPPP. THE CITY WILL PROVIDE THE CONTRACTOR WITH A COPY OF THE CITY'S eNOI AND ADEC'S WRITTEN ACKNOWLEDGEMENT FOR INCLUSION IN THE SWPPP, AND eNOT UPON COMPLETION OF FINAL STABILIZATION.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF 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.) AT 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. SAW CUTTING OF EXISTING PAVEMENT IS INCIDENTAL TO THE BID ITEM "REMOVAL OF PAVEMENT".
- ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.
- IF ANY PAVEMENT PENETRATION REQUIRES GRADE ADJUSTMENT AFTER FINAL LIFT OF PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. REPLACE THE REMOVED ASPHALT WITH NEW ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS AT LEAST 12 IN LONG USING ASPHALT SYSTEMS GSB-99 OR APPROVED EQUAL, WHILE THE HOT MIX IS CLEAN, FREE OF MOISTURE, AND PRIOR TO STRIPING. ENGINEER MUST APPROVE ANY ALTERNATE METHODS USED TO ADJUST PAVEMENT PENETRATION.
- THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.
- INSTALL HIGH CAPACITY INLET BOX FRAME AND GRATES AT ALL PROPOSED INLET BOXES. FRAME AND GRATES ARE SUBSIDIARY TO 604.0005.000A INLET, TYPE A. SEE STANDARD PLAN D-25.00 FOR HIGH CAPACITY INLET BOX FRAME AND GRATE INSTALLATION DETAILS.
- NO MORE THAN 1/4-IN LATERAL OFFSET IS PERMITTED BETWEEN GRADE ADJUSTMENT RINGS. TOTAL CUMULATIVE OFFSET BETWEEN GRADE ADJUSTMENT RINGS SHALL NOT EXCEED 1/2-IN IN ROADWAYS. SET THE MANHOLE FRAME AND COVER 1/4-IN OR NO MORE THAN 1/2-IN BELOW THE FINISHED PAVEMENT SURFACE.
- 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.
- APPLY JOINT ADHESIVE TO THE VERTICAL FACE OF EXISTING ASPHALT AS SPECIFIED IN SUBSECTION 401-3.17 JOINTS. APPLY TACK COAT TO THE VERTICAL FACE OF CURB AND GUTTER AND STRUCTURES WITHIN THE PROPOSED PAVING LIMITS WITH STE-1 ASPHALT FOR TACK COAT.
- CONTRACTOR SHALL REMOVE ORGANIC MATERIAL FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NOT PLACE OR SHALL NOT OTHERWISE UTILIZE ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL FOR BACKFILL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL, 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.
- CONTRACTOR SHALL PROVIDE REDLINED DRAWINGS SHOWING ANY DEVIATION FROM THE PLANS AT THE END OF THE PROJECT.
- CONSTRUCTION OPERATIONS REQUIRED FOR THIS PROJECT SHALL REMAIN WITHIN EXISTING CITY OF HOMER RIGHTS-OF-WAY AND EASEMENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND THE AFFECTED PROPERTY OWNER.
- LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS AND SURVEY OF UTILITY COMPANY LOCATES. CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- 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.
- 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.
- CONTRACTOR SHALL MAINTAIN STOP SIGNS AND STREET SIGNS OPERATIONAL IN THE PROJECT AREA DURING CONSTRUCTION.
- CONTRACTOR SHALL TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE IMPROVED, AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL HAND DIG TO EXPOSE ANY ROOTS WITHIN THE TREE PROTECTION ZONE. IF DAMAGE OR CHANGES IN TREE APPEARANCE OCCURS DURING THE CONSTRUCTION PROCESS IMMEDIATELY NOTIFY THE ENGINEER.
- ACTUAL CLEARING LIMITS SHALL BE DETERMINED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC AT ALL TIMES. WHEN TRAFFIC IS RESTRICTED TO ONE LANE, DELAYS SHALL NOT EXCEED 2 MINUTES OR 10 CARS.
- CSP SHALL BE COATED WITH POLYMER. ANY DAMAGE TO THE POLYMER COATING DURING INSTALLATION SHALL BE REPAIRED PRIOR TO BACKFILLING PIPE.
- CONTRACTOR SHALL DISPOSE OF UNCLASSIFIED EXCAVATION AT A DISPOSAL SITE APPROVED BY THE ENGINEER.
- 627.0011.0000 ADJUST WATER MANHOLE SHALL BE CONSTRUCTED AND PAID FOR PER 604.0004.0000 ADJUST EXISTING MANHOLE SPECIFICATIONS.

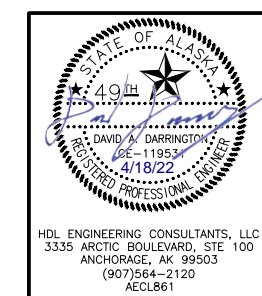
INDEX	
SHEET NO.	DESCRIPTION
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A2	NOTES AND INDEX
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B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
C2	ESTIMATE OF QUANTITIES ADDITIVE ALTERNATE
D1-D4	SUMMARY TABLES
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H1	TRAFFIC LEGEND AND NOTES
H2	SIGN ATTACHMENT DETAIL
H3	LIGHT SIGN FRAMING AND ATTACHMENT DETAIL
H4	SIGN SUMMARY AND SALVAGE

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C-04.12,
 D-06.10, D-25.00, D-26.04,
 I-20.20,
 S-00.12, S-01.02, S-05.02, S-20.11, S-30.05

ABBREVIATIONS

ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
APDES	ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM
CS	CONTINGENT SUM
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARDS
DIW	DUCTILE IRON WATERLINE
eNOI	ELECTRONIC NOTICE OF INTENT
eNOT	ELECTRONIC NOTICE OF TERMINATION
LF	LINEAR FEET
LS	LUMP SUM
SF	SQUARE FEET
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SY	SQUARE YARD



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 NOTES AND INDEX

HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_A03.DWG
 DATE: 4/11/2022 1:02 PM
 TIME: 1:02 PM
 SCALE: NTS
 DESIGNED BY: NMO
 CHECKED BY: NMO
 DRAFTED BY: NMO

NO.	DATE	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0782	2022	A3	A4

ROADWAY

	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP		
PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE		
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		

UTILITIES

	EXISTING	PROPOSED
STORM DRAIN		
STORM DRAIN MANHOLE, CLEANOUT		
CURB INLET CATCH BASIN		
FIELD INLET CATCH BASIN		
PIPE CULVERT WITH END SECTION		
SANITARY SEWER		
SANITARY SEWER MANHOLE, CLEANOUT		
SEPTIC VENT, SEWER SERVICE CONNECTION		
WATER		
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION		
NATURAL GAS		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR		
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER		
ELECTRIC MANHOLE, METER		
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE		
TELEPHONE MANHOLE, PEDESTAL		
FIBER OPTIC		
FIBER OPTIC MANHOLE		
CABLE TV		
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

TRAFFIC

	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER		
ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		
FIBER OPTIC VAULT		
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MASTARM		
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		
LOOP DETECTOR		
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
CONDUIT BORING		
CONDUIT SIZE IN INCHES		
INTERCONNECT		
SIGN POST		

PAVEMENT MARKINGS

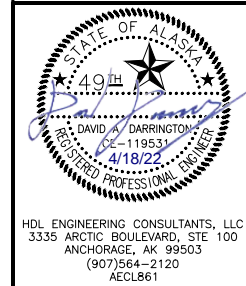
	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	
4" WHITE SKIP STRIPE	
10' STRIPES AND 30' SPACES	
8" WHITE LANE GUIDE SKIP	
LANE CONTINUATION OR TURN SKIP	
1" STRIPES AND 3' SPACES	
8" & 4" YELLOW SOLID STRIPE	
4" YELLOW SKIP STRIPE	
10' STRIPES AND 30' SPACES	
STRIPING CHANGE STATION INTERVAL	
2' CROSSWALK OR STOPBAR	
LADDER CROSSWALK LAYOUT	
2' WIDE RUNGS WITH 2' SPACES	
ALIGNED TO AVOID TIRE PATHS	
TYPICAL PAINTED MEDIAN	

RIGHT-OF-WAY

	RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT		
GOV'T CONTROL STATION		
PRIMARY MONUMENT (BRASS/AL CAP)		
MISC SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
RANDOM CONTROL MONUMENT		
PRIMARY GPS CONTROL POINT		
HORIZONTAL CONTROL POINT		
SECONDARY CONTROL POINT		
VERTICAL BENCHMARK		
TEMPORARY BENCHMARK		
TOWNSHIP AND RANGE LINES		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
EXISTING RIGHT-OF-WAY		
RIGHT-OF-WAY OR EASEMENT REQUIRED		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY EASEMENT		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING UTILITY EASEMENT		
PROPOSED UTILITY EASEMENT		
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
TEMPORARY CONSTRUCTION EASEMENT		
TEMPORARY CONSTRUCTION PERMIT		
PUBLIC USE EASEMENT		

TOPOGRAPHY

	EXISTING	PROPOSED
LAKE OR POND, WETLANDS		
TREE (CONIFER/DECIDUOUS)		
TREELINE (EDGE OF VEGETATION)		
PLANTER		
BUILDING OR FOUNDATION		
CONTOUR, MAJOR OR MINOR		
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		



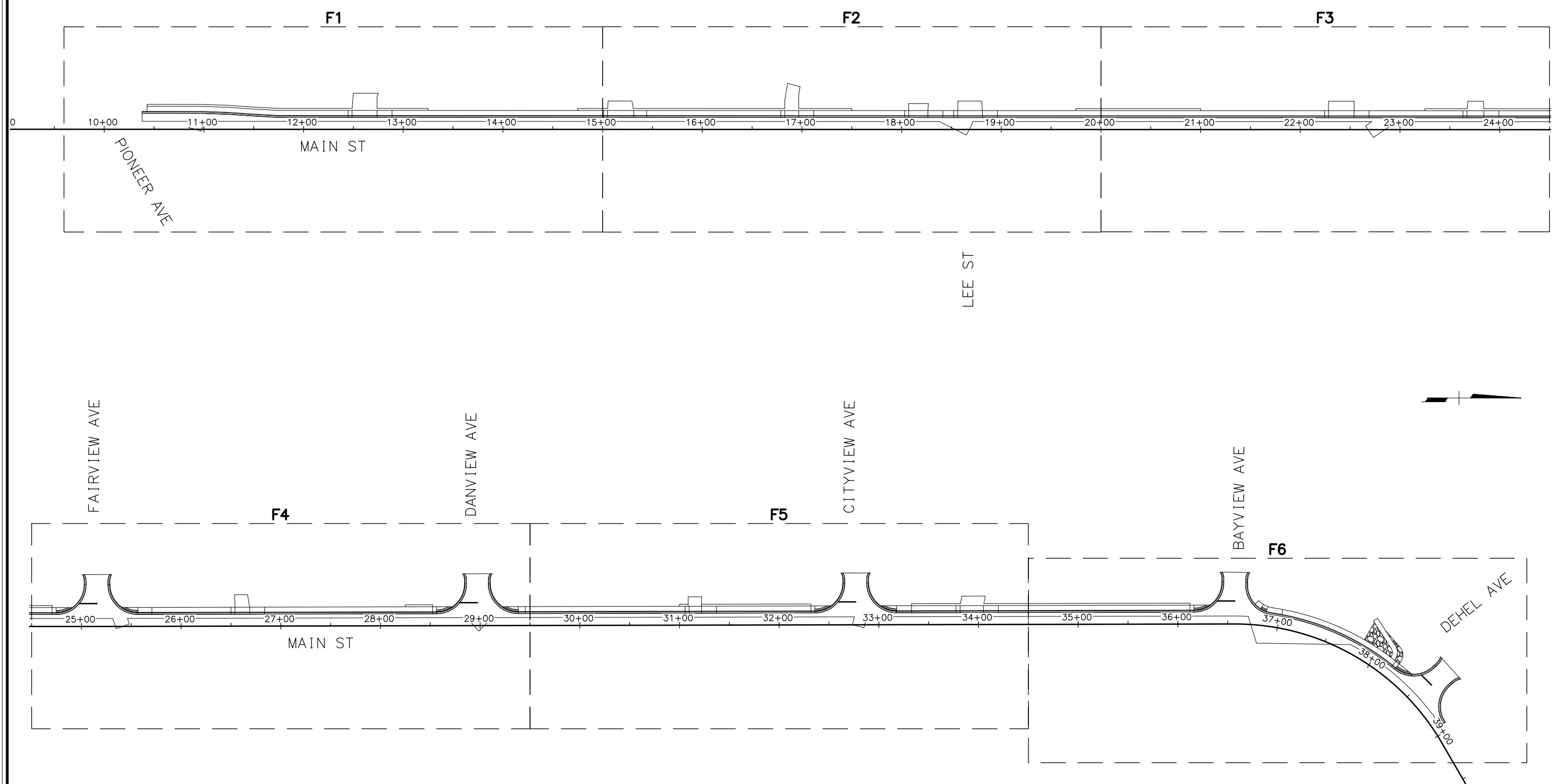
CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 LEGEND

DAD
 NMO
 WP
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 SCALE
 1" = 50'
 TIME
 1:01 PM
 DATE
 4/11/2022

H:\JOBS\17-014_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK
 DESIGN\CAD\DRAWINGS\17014_02_A04.DWG

NO.	DATE	REVISION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0782	2022	A4	A4



HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 PROJECT LAYOUT

CL STREET INTERSECTION
N4534494
E4499916
EL=408006

LEE DR.

44

MULTI-STORY GARAGE

MAIN ST.

60' ROW

20' ROW

LOT 55A
HM79-26

THEATER
FIN. FL.=1603

W. PIONEER AVE.
(60' R/W)

E. PIONEER AVE.
(60' R/W)

CL STREET INTX. MONUMENT
REMOVED DURING
2020 CONSTRUCTION

VIEWPORT SHOWING SOUTHERLY 700' TO LEE DR.

W. FAIRVIEW AVE.

E. FAIRVIEW AVE.

PAL-CAP IN P.W.T.
SEC. CORNER & ST
N44999326
E44999280
EL=400098

6
CK 4

7H
HM69-74

TORY
ENT BUILDING

LOT 1-A
OR RIDGE #TWO
HM84-94

LOT 5
HARBOR
RIDGE SUBD.
HM79-131
SEE SLOPE ESM(T)
ETER & RHODA ROEDL

-B
ITE FRANTZ

MAIN STREET 60' ROW

CL STREET INTERSECTION
N44999326
E44999280
EL=400098

LEE DR.

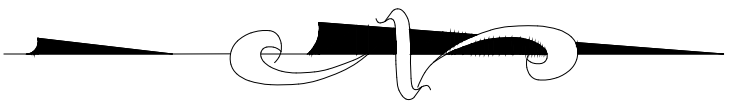
44

MULTI-STORY GARAGE

VIEWPORT SHOWING LEE DR. TO FAIRVIEW AVE.

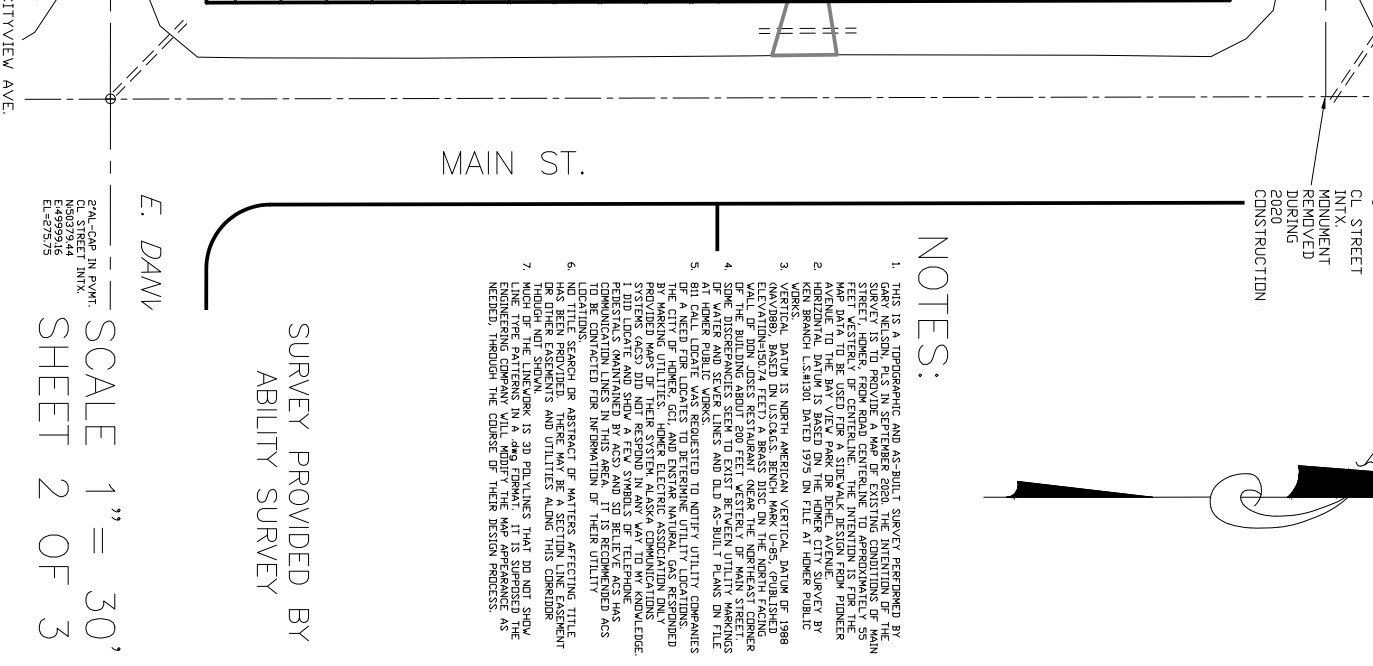
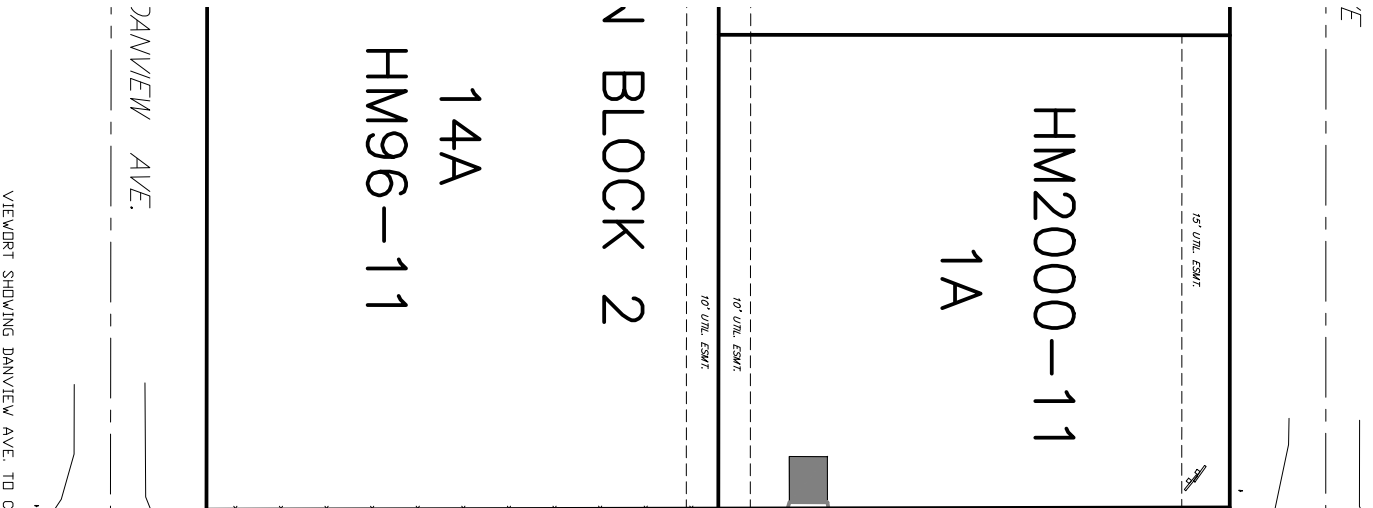
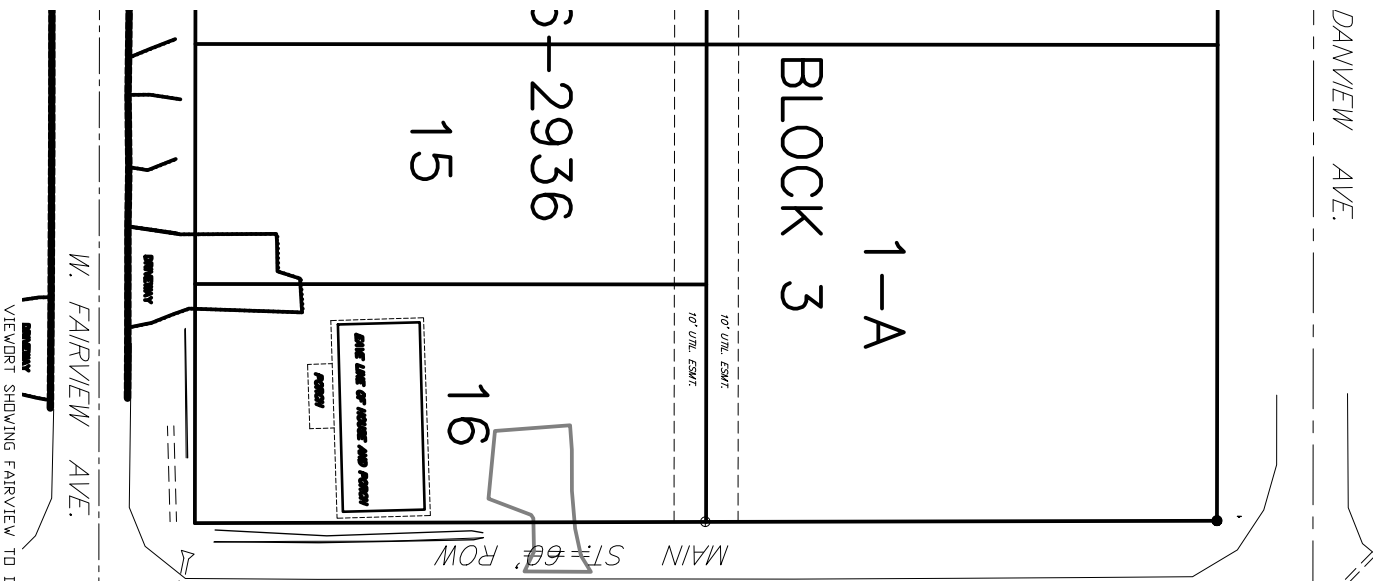
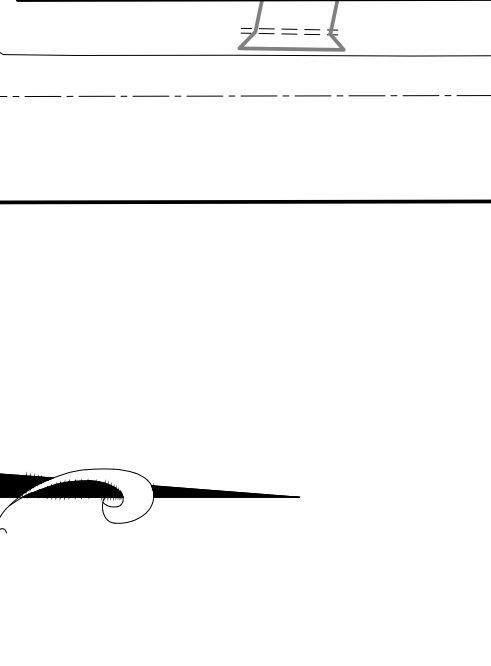
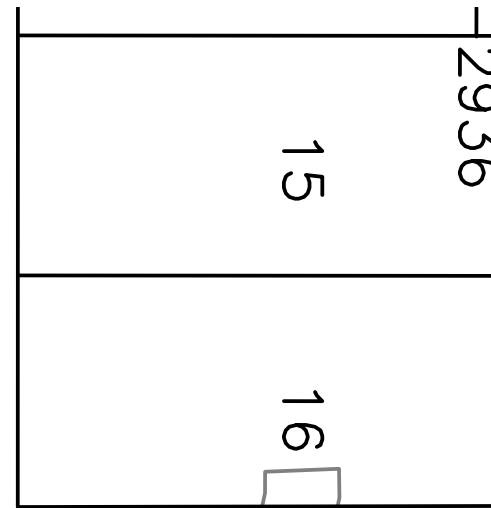
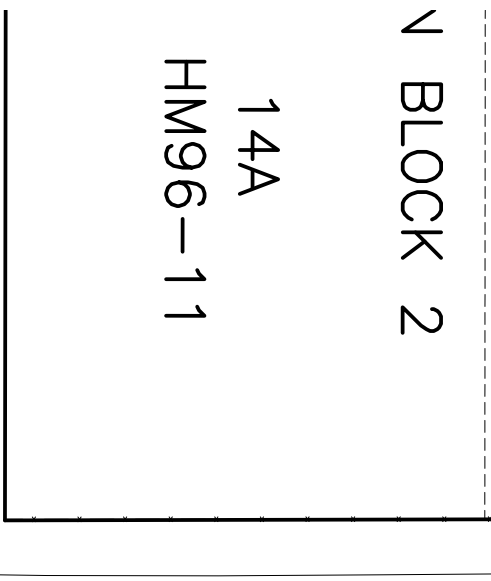
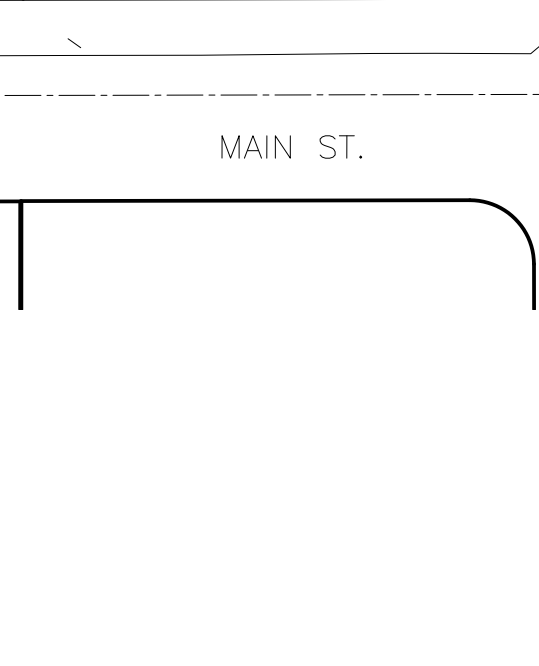
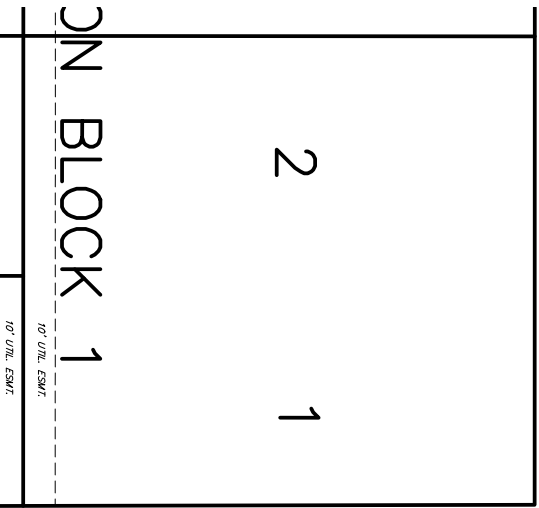
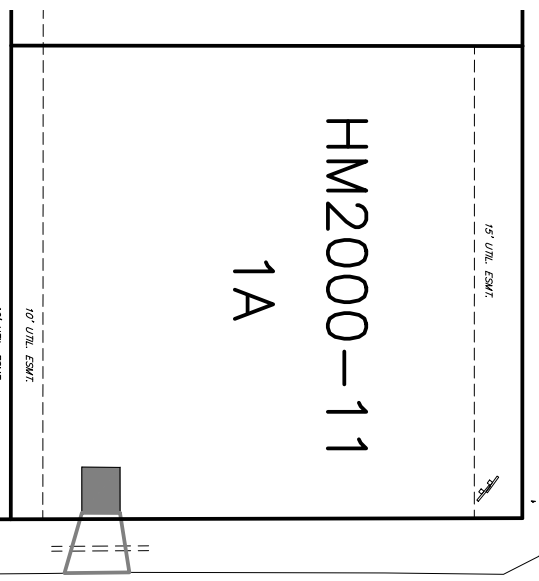
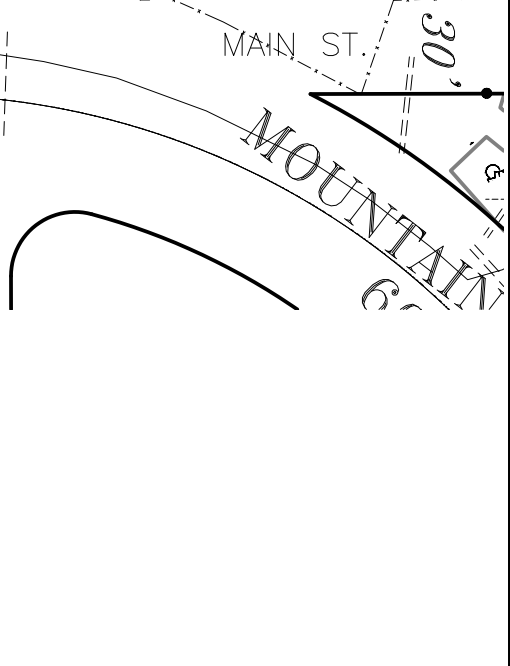
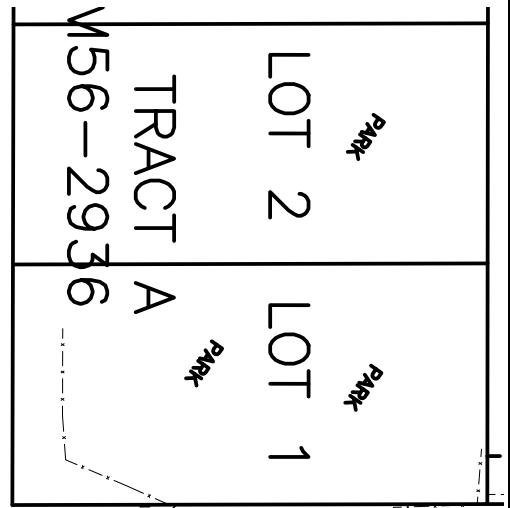
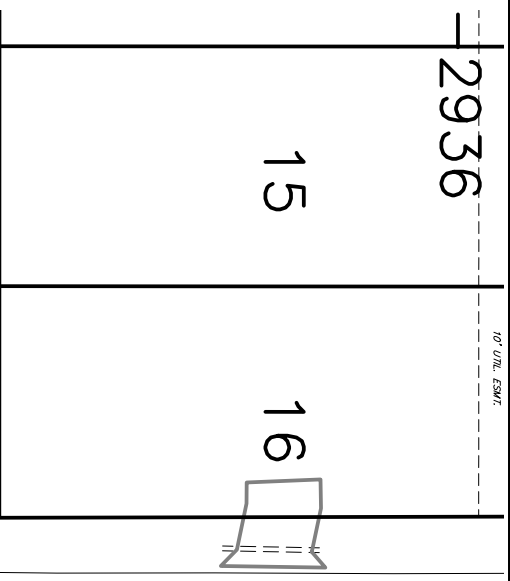
NOTES:

1. THIS IS A TOPographic AND AS-BUILT SURVEY PERFORMED BY GARY NELSON, PLS IN SEPTEMBER 2020. THE INTENTION OF THE SURVEY IS TO PROVIDE A MAP OF EXISTING CONDITIONS OF MAIN STREET VESTIBLY OF CENTRALINE. THE INTENTION IS FOR THE MAP DATA TO BE USED FOR A SIDEWALK DESIGN FROM RIDGEER HORIZONTAL DATUM IS BASED ON THE HOMER CITY SURVEY BY KEN BRANCH U.S.#1801 DATED 1970 ON FILE AT HOMER PUBLIC VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD83) BASED ON U.S.C&G.S. BENCH MARK U-55. GROUND LEVEL OF THE BUILDING ABOUT 200 FEET WESTERLY OF MAIN STREET WALL OF DON JONES RESTAURANT NEAR THE NORTHEAST CORNER OF WATER AND SEWER LINES AND OLD AS-BUILT PLANS ON FILE AT HOMER PUBLIC WORKS. REQUESTED TO NOTIFY UTILITY COMPANIES OF A NEED FOR LOCATES TO DETERMINE UTILITY LOCATIONS. THE CITY OF HOMER, GAS, AND ENSTAR NATURAL GAS RESPONDED PROVIDED MAPS OF THEIR SYSTEM. ALASKA COMMUNICATIONS SYSTEMS (ACS) DID NOT RESPOND IN ANY WAY TO MY KNOWLEDGE. PETERSTALS (MAINTAINED BY ACS) AND SD BELIEVE ACS HAS COMMUNICATION LINES IN THIS AREA. IT IS RECOMMENDED ACS LOCATIONS. NOTED FOR INFORMATION OF THEIR UTILITY LOCATIONS.
2. NO TITLE SEARCH OR ABSTRACT OF MATTERS AFFECTING TITLE THROUGHOUT SHOWN. THERE IS NO POLY-LINES THAT DO NOT SHOW DR OTHER EASEMENTS AND UTILITIES ALONG THIS CORRIDOR.
3. ENGINEERING COMPANY WILL MODIFY THE MAP APPEARANCE AS NEEDED, THROUGH THE COURSE OF THEIR DESIGN PROCESS.



SURVEY PROVIDED BY
ABILITY SURVEY

7H SCALE 1" = 30'
HM69-7 SHEET 1 OF 3



W. FAIRVIEW AVE. E. FAIRVIEW AVE. DANVIEW AVE. WEST BAYVIEW AVE. MAIN ST. DANVIEW AVE. CITYVIEW AVE.

PAL-C&E IN P.W.M.
SEC. CORNER & ST
N499939.92
E499999.06
E1=275.75

PAL-C&E IN P.W.M.
CL. STREET INTX.
N499939.92
E499999.06
E1=275.75

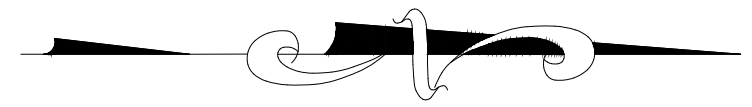
PAL-C&E IN P.W.M.
N50379.44
E499991.16
E1=275.75

CL. STREET
INTX.
REMOVED
REMOVED
2020
CONSTRUCTION

5/8" REBAR IN P.W.M.
CL. STREET INTX.
N499939.92
E499999.06
E1=320.72

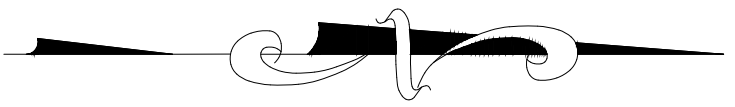
NOTES:

1. THIS IS A TOPographic AND AS-BUILT SURVEY PERFORMED BY GARY NELSON, P.S. IN SEPTEMBER 2020. THE INTENTION OF THE SURVEY IS TO PROVIDE A MAP OF EXISTING CONDITIONS OF MAIN STREET AND ADJACENT LOTS. THE INTENTION IS NOT TO PROVIDE A LEGAL DESCRIPTION OF THE PROPERTY. THE INTENTION IS FOR THE MAP DATA TO BE USED FOR A SIDEWALK DESIGN FROM RIDGEBACK HORIZONTAL DATUM IS BASED ON THE HOMER CITY SURVEY BY KEN BRANCH L.S. 1830 DATED 1979 ON FILE AT HOMER PUBLIC UTILITIES DEPARTMENT.
2. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83). BASED ON U.S.C&G.S. BENCH MARK L-55, GRIFFIN LANE, HOMER, ALASKA. THE SURVEY WAS CONDUCTED FROM A WALL OF DON JOSE'S RESTAURANT NEAR THE NORTHEAST CORNER OF MAIN STREET AND SEVERAL LINES AND OLD AS-BUILT PLANS ON FILE AT HOMER PUBLIC UTILITIES DEPARTMENT.
3. THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS. THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS. THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS.
4. THE SURVEY WAS CONDUCTED IN THE PRESENCE OF THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS.
5. THE SURVEY WAS CONDUCTED IN THE PRESENCE OF THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS.
6. THE SURVEY WAS CONDUCTED IN THE PRESENCE OF THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS.
7. THE SURVEY WAS CONDUCTED IN THE PRESENCE OF THE CITY OF HOMER, GEL AND ENSTAR NATURAL GAS RESPONDED TO THE SURVEY AND PROVIDED UTILITY LOCATIONS.



SURVEY PROVIDED BY
ABILITY SURVEY

SCALE 1" = 30'
SHEET 2 OF 3

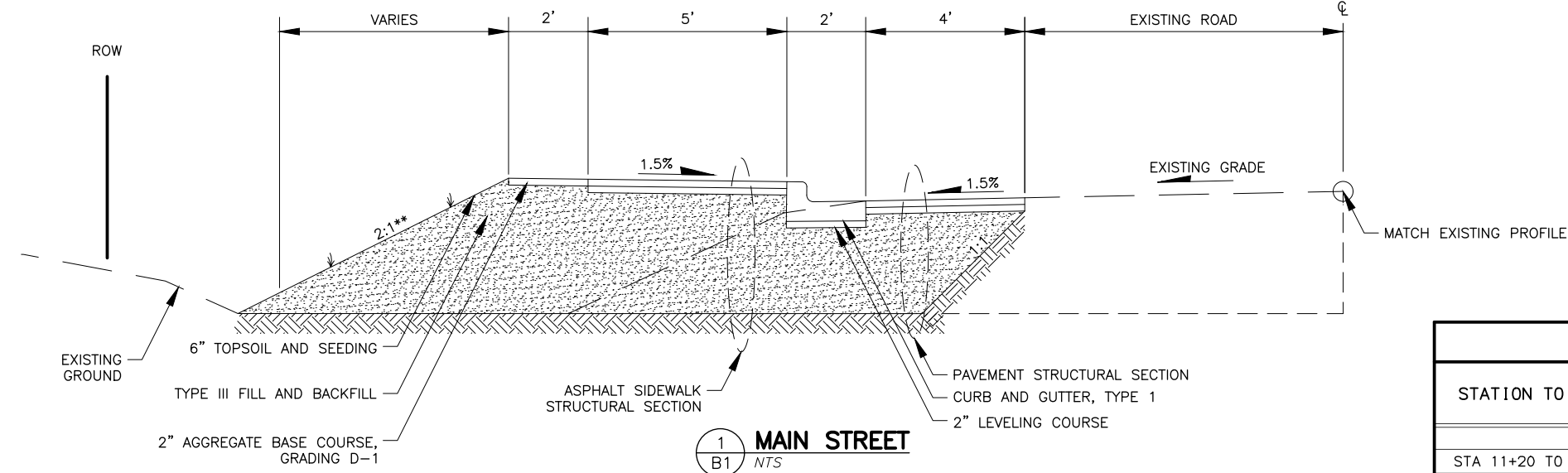


- NOTES:**
1. THIS IS A TOPOGRAPHIC AND AS-BUILT SURVEY PREPARED BY GARY NELSON, P.E. IN SEPTEMBER 2024. THE INTENTION OF THE SURVEY IS TO PROVIDE A MAP OF EXISTING CONDITIONS OF MAIN STREET AND MOUNTAIN VIEW DRIVE. THE INTENTION IS FOR THE SURVEY TO BE USED FOR A SIDEWALK DESIGN FROM RIDGEWAY WESTERLY OF CENTERLINE. THE INTENTION IS FOR THE MAP DATA TO BE USED FOR A SIDEWALK DESIGN FROM RIDGEWAY WESTERLY OF CENTERLINE. THE INTENTION IS FOR THE HORIZONTAL DATUM IS BASED ON THE HOMER CITY SURVEY BY KEN BRANCH U.S. 8301 DATED 1979 ON FILE AT HOMER PUBLIC WORKS DEPARTMENT.
 2. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83). BASED ON U.S. COAST AND GEODETIC SURVEY (CGS83) DATUM. THE BUILDING ABOUT 200 FEET WESTERLY OF MAIN STREET CORNER OF DON JOSE'S RESTAURANT NEAR THE NORTHEAST CORNER OF WATER AND SEWER LINES AND OLD AS-BUILT PLANS ON FILE AT HOMER PUBLIC WORKS DEPARTMENT.
 3. THE CITY OF HOMER, GEI, AND EASTAR NATURAL GAS RESPONDED TO THE REQUEST FOR INFORMATION FOR UTILITY COMPANIES TO PROVIDE MAPS OF THEIR SYSTEM ALONG THIS CORRIDOR. THE CITY OF HOMER, GEI, AND EASTAR NATURAL GAS HAS PROVIDED MAPS OF THEIR SYSTEM ALONG THIS CORRIDOR. THE CITY OF HOMER, GEI, AND EASTAR NATURAL GAS HAS PROVIDED MAPS OF THEIR SYSTEM ALONG THIS CORRIDOR.
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SURVEY PROVIDED BY
ABILITY SURVEY

SCALE 1" = 30'
SHEET 3 OF 3

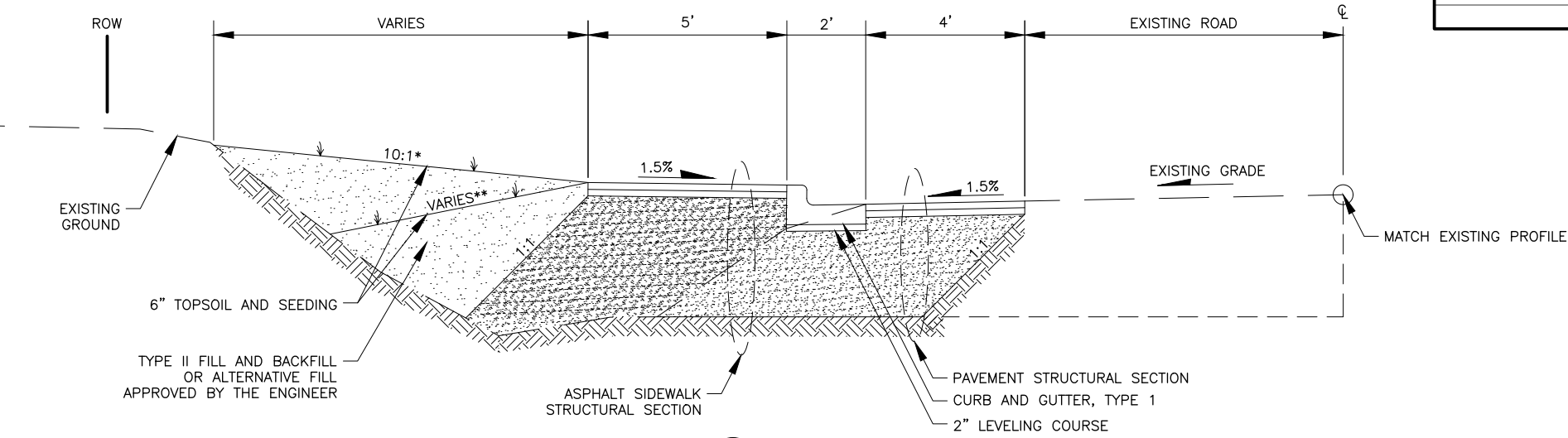
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 CHECKED BY: NMO
 DRAFTED BY: WP



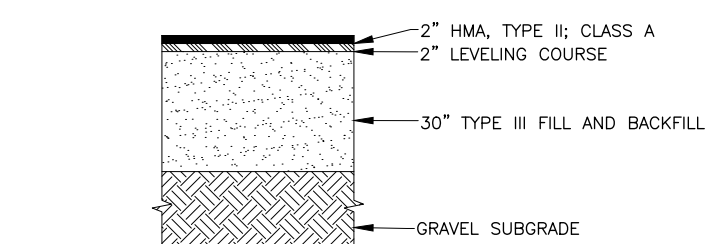
1 MAIN STREET
 B1 NTS
 STA 10+38 TO STA 13+25
 STA 14+75 TO STA 17+50
 STA 19+75 TO STA 21+00
 STA 23+25 TO STA 25+57
 STA 28+25 TO STA 29+35
 STA 31+00 TO STA 36+90
 SEE TABLE OF SLOPE EXCEPTIONS

STATION TO STATION	OFFSET	FORE/BACK	*POSITIVE SLOPE	**NEGATIVE SLOPE	REMARKS
STA 11+20 TO STA 11+62	LT	FORE		1:1	
STA 17+50 TO STA 19+25	LT	FORE	20:1		
STA 19+25 TO STA 19+75	LT	FORE		10:1	
STA 21+00 TO STA 21+50	LT	FORE		10:1	
STA 27+50 TO STA 28+25	LT	FORE		10:1	
STA 29+35 TO STA 30+00	LT	FORE	20:1		
STA 30+50 TO STA 31+00	LT	FORE	FLAT		

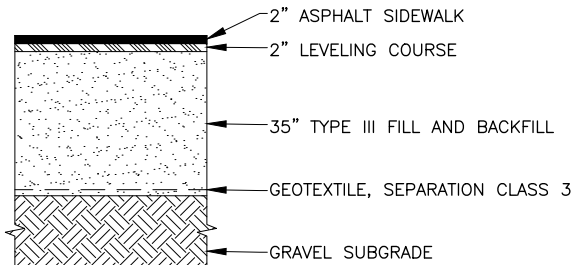
NOTE:
 1. NEGATIVE SLOPES INDICATE DOWNWARD SLOPES FROM BACK OF SIDEWALK.



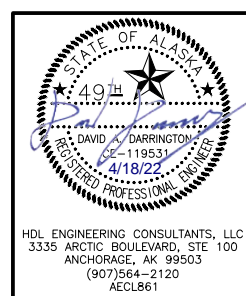
2 MAIN STREET
 B1 NTS
 STA 13+25 TO STA 14+75
 STA 17+50 TO STA 19+75
 STA 21+00 TO STA 23+25
 STA 25+57 TO STA 28+25
 STA 29+35 TO STA 31+00
 STA 36+90 TO STA 38+92
 SEE TABLE OF SLOPE EXCEPTIONS



PAVEMENT STRUCTURAL SECTION



ASPHALT SIDEWALK STRUCTURAL SECTION



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

TYPICAL SECTIONS

HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_C01-C02.DWG
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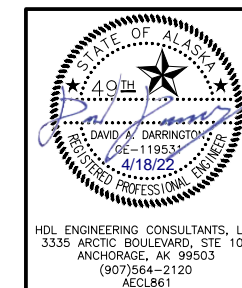
NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	C1	C2

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
102	CONSTRUCTION SURVEYING	LS	ALL REQ'D
103	TRAFFIC CONTROL	LS	ALL REQ'D
104	PAINTED TRAFFIC MARKINGS	LS	ALL REQ'D
202	GRUBBING AND CLEARING	ACRE	1
203	REMOVAL OF OBSTRUCTIONS	SY	2,068
204	UNCLASSIFIED EXCAVATION	CY	1,755
205	TYPE II FILL AND BACKFILL	CY	95
205	TYPE III FILL AND BACKFILL	CY	2,380
206	LEVELING COURSE	TON	396
220-1	RECONSTRUCT APPROACH	EACH	4
220-2	RECONSTRUCT DRIVEWAY	EACH	10
221	DITCH LINING	TON	13
302	CURB AND GUTTER, TYPE 1	LF	2,627
304	CURB RAMP	EACH	7
401	HMA, TYPE II; CLASS A	TON	210
404	INSTALL ASPHALT SIDEWALK	TON	141
512	ADJUST MANHOLE RING	EACH	1
515-1	RECONSTRUCT EXISTING MANHOLE	EACH	7
515-2	INLET, TYPE A	EACH	7
607	ADJUST VALVE BOX	EACH	15
609	FIRE HYDRANT ADJUSTMENT	EACH	3
702	GEOTEXTILE FABRIC	SY	1,743
707	STANDARD SIGNS	EACH	4
707	SALVAGE SIGN	EACH	4
708	SEEDING	LB	21
710	TOPSOIL	SY	1,435
711	SWPPP IMPLEMENTATION	LS	ALL REQ'D
712	RECONSTRUCT FENCE	LF	40
802	FURNISH AND INSTALL CSP 12 INCH	LF	152
802	FURNISH AND INSTALL CSP 18 INCH	LF	134
802	FURNISH AND INSTALL CSP 24 INCH	LF	63
802	FURNISH AND INSTALL CSP 18 INCH END SECTION	EACH	3
802	FURNISH AND INSTALL CSP 24 INCH END SECTION	EACH	1
804	STORM DRAIN MANHOLE	EACH	4

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	UNIT
206	LEVELING COURSE	144 LB/CF
221	DITCH LINING	110 LB/CF
401	HMA, TYPE II; CLASS A	151 LB/CF
404	ASPHALT SIDEWALK	151 LB/CF
708	SEEDING	0.0015 LB/SF

NOTES

- HMA, TYPE II, CLASS A BID PRICE INCLUDES TOTAL COST FOR HMA AND ASPHALT BINDER.



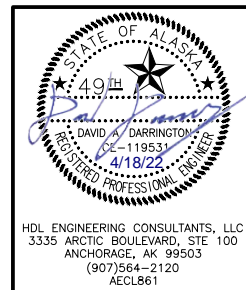
HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
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 AECL861

CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 ESTIMATE OF QUANTITIES

H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE 1) SIDEWALK
 DESIGN\CAD\DRAWINGS\17014_02_C01-C02.DWG
 DATE: 4/18/2022 9:28 AM
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 DESIGNED BY: []
 CHECKED BY: []
 DRAFTED BY: []
 DAD: []
 NMO: []
 WP: []

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	C2	C2

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
104	PAINTED TRAFFIC MARKINGS	LS	ALL REQ'D
202	GRUBBING AND CLEARING	ACRE	0.5
203	REMOVAL OF OBSTRUCTION	SY	406
204	UNCLASSIFIED EXCAVATION	CY	725
205	TYPE III FILL AND BACKFILL	CY	875
206	LEVELING COURSE	TON	74
220-1	RECONSTRUCT APPROACH	EACH	1
221	DITCH LINING	TON	42
302	CURB AND GUTTER, TYPE 1	LF	300
304	CURB RAMP	EACH	2
401	HMA, TYPE II; CLASS A	TON	60
404	INSTALL ASPHALT SIDEWALK	TON	13
515-1	RECONSTRUCT EXISTING MANHOLE	EACH	1
515-2	INLET, TYPE A	EACH	1
702	GEOTEXTILE FABRIC	SY	157
707	STANDARD SIGNS	EACH	2
707	SALVAGE SIGN	EACH	2
708	SEEDING	LB	4
710	TOPSOIL	SY	232
802	FURNISH AND INSTALL CSP 18 INCH	LF	133
802	FURNISH AND INSTALL CSP 24 INCH	LF	247
802	FURNISH AND INSTALL CSP 18 INCH END SECTION	EACH	1
804	STORM DRAIN MANHOLE	EACH	3



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

 ESTIMATE OF QUANTITIES
 ADDITIVE ALTERNATE

H:\JOBS\17-014_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I)_SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_D01-D04.DWG
 DATE: 4/18/2022 9:13 AM
 TIME: 9:13 AM
 SCALE: 1"=40'
 DESIGNED BY: NMO
 CHECKED BY: NMO
 DRAFTED BY: WP

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	D1	D4

203 - REMOVAL OF OBSTRUCTIONS

SHEET	STATION		AREA (SY)	LENGTH (SY)	REMARKS
	FROM	TO			
F1	10+38.00	15+00.00	295	-	REMOVAL OF PAVEMENT
	10+38.00	11+11.00	73	-	REMOVAL OF CURB AND GUTTER
	10+44.00	11+11.00	43	-	REMOVAL OF SIDEWALK
	12+45.04	12+75.22	-	31	REMOVAL OF CULVERT PIPE
F2	15+00.00	20+00.00	357	-	REMOVAL OF PAVEMENT
	15+02.90	15+33.12	-	31	REMOVAL OF CULVERT PIPE
	16+79.22	16+99.09	-	21	REMOVAL OF CULVERT PIPE
	18+02.05	18+32.31	-	31	REMOVAL OF CULVERT PIPE
	18+54.56	18+85.12	-	31	REMOVAL OF CULVERT PIPE
F3	20+00.00	24+50.00	239	-	REMOVAL OF PAVEMENT
	20+37.32	20+61.48	-	25	REMOVAL OF CULVERT PIPE
	23+65.67	23+85.71	-	20	REMOVAL OF CULVERT PIPE
F4	24+50.00	29+50.00	558	-	REMOVAL OF PAVEMENT
	25+40.68	25+41.43	-	30	REMOVAL OF CULVERT PIPE
	25+41.48	25+45.45	-	20	REMOVAL OF CULVERT PIPE
	26+51.04	26+71.36	-	21	REMOVAL OF CULVERT PIPE
	28+98.87	29+20.83	-	32	REMOVAL OF CULVERT PIPE
F5	29+50.00	34+50.00	440	-	REMOVAL OF PAVEMENT
	31+00.28	31+30.58	-	31	REMOVAL OF CULVERT PIPE
	32+79.25	32+97.21	-	32	REMOVAL OF CULVERT PIPE
	32+96.02	32+97.43	-	20	REMOVAL OF CULVERT PIPE
	33+77.12	34+07.36	-	31	REMOVAL OF CULVERT PIPE
F6	34+50.00	38+92.00	585	-	REMOVAL OF PAVEMENT
	36+82.28	36+84.61	-	33	REMOVAL OF CULVERT PIPE, ADDITIVE ALTERNATE
	37+89.71	38+01.35	-	31	REMOVAL OF CULVERT PIPE, ADDITIVE ALTERNATE
	38+27.44	38+34.53	-	80	REMOVAL OF CULVERT PIPE, ADDITIVE ALTERNATE
	38+33.73	38+83.44	-	54	REMOVAL OF CULVERT PIPE, ADDITIVE ALTERNATE

220-2 - RECONSTRUCT DRIVEWAY

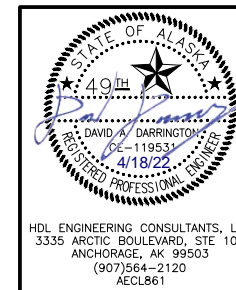
SHEET	STATION	OFFSET	SKEW ANGLE (90° TYP.)	TYPE			WIDTH (FT)	LENGTH (FT)	REMARKS
				PUB.	RES.	COM.			
F1	12+61.60	LT	90		GRAVEL		25.1	17.2	
F2	15+18.12	LT	90		GRAVEL		26.3	9.5	
	16+88.37	LT	90		GRAVEL		14.0	25.9	
	18+16.91	LT	90		ASPHALT		19.2	7	
	18+68.30	LT	90		ASPHALT		24.8	9.5	
F3	22+41.15	LT	90		ASPHALT		25.6	9.5	
	23+75.00	LT	90		GRAVEL		16.9	9.5	
F4	26+61.16	LT	90		GRAVEL		14.7	12.6	
F5	31+15.71	LT	90		ASPHALT		13.4	9.5	
	33+92.88	LT	90		GRAVEL		23.4	9.5	
TOTAL:					10				

220-1 - RECONSTRUCT APPROACH

SHEET	STATION	OFFSET	SKEW ANGLE (90° TYP.)	TYPE			WIDTH (FT)	LENGTH (FT)	REMARKS
				PUB.	RES.	COM.			
F4	25+15.61	LT	90	ASPHALT			24.0	30.0	FAIRVIEW AVE
	28+97.27	LT	90	ASPHALT			24.0	30.0	DANVIEW AVE
F5	32+76.91	LT	90	ASPHALT			24.0	30.0	CITYVIEW AVE
F6	36+57.16	LT	90	ASPHALT			24.0	30.0	BAYVIEW AVE
	38+57.70	LT	90	ASPHALT			24.0	30.0	DEHEL AVENUE; ADDITIVE ALTERNATE
TOTAL:				5					

221 - DITCH LINING

SHEET	STATION		QUANTITY (TON)	REMARKS
	FROM	TO		
F1	11+32.00	11+62.00	13	
F6	37+83.34	38+22.64	42	ADDITIVE ALTERNATE
TOTAL:			55	



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

SUMMARY TABLES

HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

H:\JOBS\17-014_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I)_SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_D01-D04.DWG
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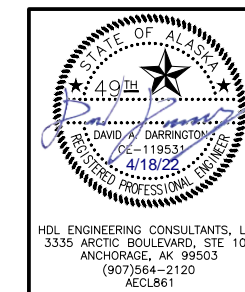
NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	D2	D4

302 - CURB AND GUTTER, TYPE 1				
SHEET	STATION		LENGTH (LF)	REMARKS
	FROM	TO		
F1	10+38.00	15+00.00	462	
F2	15+00.00	20+00.00	500	
F3	20+00.00	24+50.00	450	
F4	24+50.00	25+03.29	70	
	25+28.05	28+85.00	390	
	29+08.33	29+50.00	67	
F5	29+50.00	32+64.55	331	
	32+89.21	34+50.00	177	
F6	34+50.00	36+44.86	211	
	36+67.65	38+47.20	246	ADDITIVE ALTERNATE
	38+68.20	38+92.71	54	ADDITIVE ALTERNATE
TOTAL:			2958	

304 - CURB RAMP				
SHEET	STATION	OFFSET	QUANTITY	REMARKS
F4	24+83.48	15.4 LT	1	
	25+48.28	15.3 LT	1	
	28+65.67	15.6 LT	1	
	29+30.00	15.3 LT	1	
F5	32+44.25	15.3 LT	1	
	33+09.51	15.3 LT	1	
F6	36+24.56	15.3 LT	1	
	36+82.20	15.5 LT	1	ADDITIVE ALTERNATE
	38+30.61	15.4 LT	1	ADDITIVE ALTERNATE
TOTAL:			9	

404 - INSTALL ASPHALT SIDEWALK							
SHEET	FROM		TO		WIDTH (FT)	QUANTITY (TON)	REMARKS
	STATION	OFFSET	STATION	OFFSET			
F1	10+38.00	18.0 LT	15+00.00	14.0 LT	5	29	
F2	15+00.00	14.0 LT	20+00.00	14.0 LT	5	31	
F3	20+00.00	14.0 LT	24+50.00	14.0 LT	5	28	
	24+50.00	14.0 LT	24+70.61	14.0 LT	5	1	
F4	25+70.74	14.0 LT	28+52.34	14.0 LT	5	18	
	29+45.38	14.0 LT	29+50.00	14.0 LT	5	1	
F5	29+50.00	14.0 LT	32+31.88	14.0 LT	5	18	
	33+32.88	14.0 LT	34+50.00	14.0 LT	5	7	
F6	34+50.00	14.0 LT	36+12.19	14.0 LT	5	10	
	37+01.62	14.0 LT	38+18.89	14.0 LT	5	8	ADDITIVE ALTERNATE
	37+81.96	39.9 LT	38+17.32	19.0 RT	5	3	ADDITIVE ALTERNATE
TOTAL:						154	

512 - ADJUST MANHOLE RING			
SHEET	STATION	OFFSET	REMARKS
F4	28+46.93	23.9 LT	
TOTAL:		1	



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

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			160-0782	2022	D3	D4

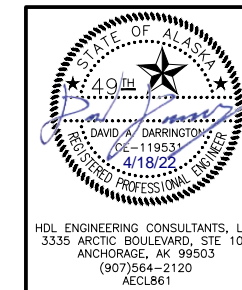
515-1 - RECONSTRUCT EXISTING MANHOLE			
SHEET	STATION	OFFSET	REMARKS
F1	10+91.21	CL	
	12+69.41	1.8 LT	
F2	18+68.63	1.5 LT	
F3	22+69.42	2.0 RT	
F4	25+41.45	CL	
	28+98.91	1.7 LT	
F5	32+79.25	1.4 RT	
F6	36+84.61	11.6 RT	ADDITIVE ALTERNATE
TOTAL:		8	

609 - ADJUST FIRE HYDRANT			
SHEET	STATION	OFFSET	REMARKS
F2	16+53.55	21.48 LT	
F3	20+49.08	21.7 LT	
F6	36+27.47	25.3 LT	
TOTAL:		3	

515-2 - INLET, TYPE A			
SHEET	STATION	OFFSET	REMARKS
F1	10+96.00	17.85 LT	S1-1
	12+92.00	13.33 LT	S1-2
F2	18+44.00	13.88 LT	S2-1
F3	22+93.00	13.88 LT	S3-1
F4	25+32.84	25.67 LT	S4-1
	29+13.15	25.56 LT	S4-2
F5	32+88.75	34.47 LT	S5-3
F6	36+69.65	26.94 LT	S6-1, ADDITIVE ALTERNATE
TOTAL:		8	

712 - RECONSTRUCTED FENCE						
SHEET	FROM		TO		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F6	36+10.78	32.1 LT	36+35.94	48.7 LT	40'	
TOTAL:					40'	

607 - ADJUST VALVE BOX			
SHEET	STATION	OFFSET	REMARKS
F2	16+53.01	17.1 LT	
	18+84.79	10.8 LT	
	18+86.46	13.2 LT	
F3	20+49.73	17.7 LT	
	25+35.02	17.5 LT	
	25+38.39	21.1 LT	
	29+08.14	24.9 LT	
F5	29+08.34	15.6 LT	
	32+93.58	15.2 LT	
	32+99.41	15.4 LT	
F6	36+06.91	17.2 LT	
	36+23.19	9.5 LT	
	36+30.55	25.3 LT	
	36+49.17	15.5 LT	
	36+54.65	15.7 LT	
TOTAL:		15	



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

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 WP

NO.	DATE	REVISION

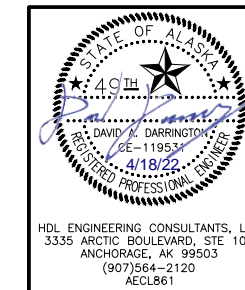
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0782	2022	D4	D4

802 ITEMS - PIPE SUMMARY

SHEET	INLET			OUTLET			SIZE (IN)	LENGTH (LF)	END SECTION	REMARKS
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.				
P1-1	10+96.00	17.8 LT	155.88	10+91.21	CL	155.59	12	18.4		
P1-2	12+92.00	13.3 LT	166.49	12+69.41	1.8 LT	165.42	12	23.4		
P2-1	18+44.00	13.9 LT	201.38	18+68.63	1.5 LT	200.91	12	27.6		
P3-1	22+93.00	13.9 LT	230.10	22+69.42	2.0 RT	229.61	12	28.4		
P4-1	25+40.68	60.39 LT	249.50	25+40.68	25.7 LT	245.20	24	35.6	1	
P4-2	25+32.84	25.67 LT	246.22	25+41.45	CL	245.07	24	27.0		
P4-3	28+73.00	31.00 LT	270.24	28+98.91	25.6 LT	269.50	18	39.1	1	
P4-4	29+13.56	25.6 LT	273.30	28+98.91	1.7 LT	270.00	18	28.0		
P4-5	29+21.90	30.7 LT	273.30	29+13.56	25.6 LT	272.00	18	9.8	1	
P5-1	30+90.00	25 LT	276.99	30+90.00	CL	276.57	12	24.9		
P5-2	32+88.75	34.5 LT	287.58	32+79.25	1.4 LT	287.25	18	37.1		
P5-3	32+96.02	52.5 LT	291.03	32+88.75	34.5 LT	287.70	18	19.5	1	
P5-4	34+12.00	24.0 LT	293.83	34+12.00	5.3 RT	293.70	12	29.3		
P6-1	36+69.65	26.9 LT	315.97	36+84.62	11.6 RT	315.60	18	41.4		ADDITIVE ALTERNATE
P6-2	36+79.19	32.6 LT	318.39	36+69.65	26.9 LT	316.05	18	12.1	1	ADDITIVE ALTERNATE
P6-3	37+88.00	23.0 LT	318.99	36+84.62	11.6 RT	315.25	24	110.5		ADDITIVE ALTERNATE
P6-4	37+90.00	55.0 LT	321.40	37+88.00	23.0 LT	320.00	24	32.1		ADDITIVE ALTERNATE
P6-5	38+34.00	24.0 LT	321.82	37+88.00	23.0 LT	319.50	24	50.4		ADDITIVE ALTERNATE
P6-6	38+27.44	103.1 LT	340.78	38+34.00	24.0 LT	322.32	18	79.5		ADDITIVE ALTERNATE
P6-7	38+83.44	19.1 LT	330.71	38+34.00	24.0 LT	322.82	24	54.0		ADDITIVE ALTERNATE
							12-INCH TOTAL:	152.0		
							18-INCH TOTAL:	266.5		
							24-INCH TOTAL:	309.5		
							18-INCH END SECTION TOTAL:	4		
							24-INCH END SECTION TOTAL:	1		

804 - STORM DRAIN MANHOLE

SHEET	STATION	OFFSET	REMARKS
F5	30+90.00	25.00 LT	S5-1; FIELD INLET
	30+90.00	CL	S5-2
	34+12.00	24.00 LT	S5-4; FIELD INLET
	34+12.00	CL	S5-5
	37+88.00	23.00 LT	S6-2, ADDITIVE ALTERNATE
	37+90.00	55.00 LT	S6-3; FIELD INLET, ADDITIVE ALTERNATE
	38+34.00	24.00 LT	S6-4, ADDITIVE ALTERNATE
TOTAL:		7	

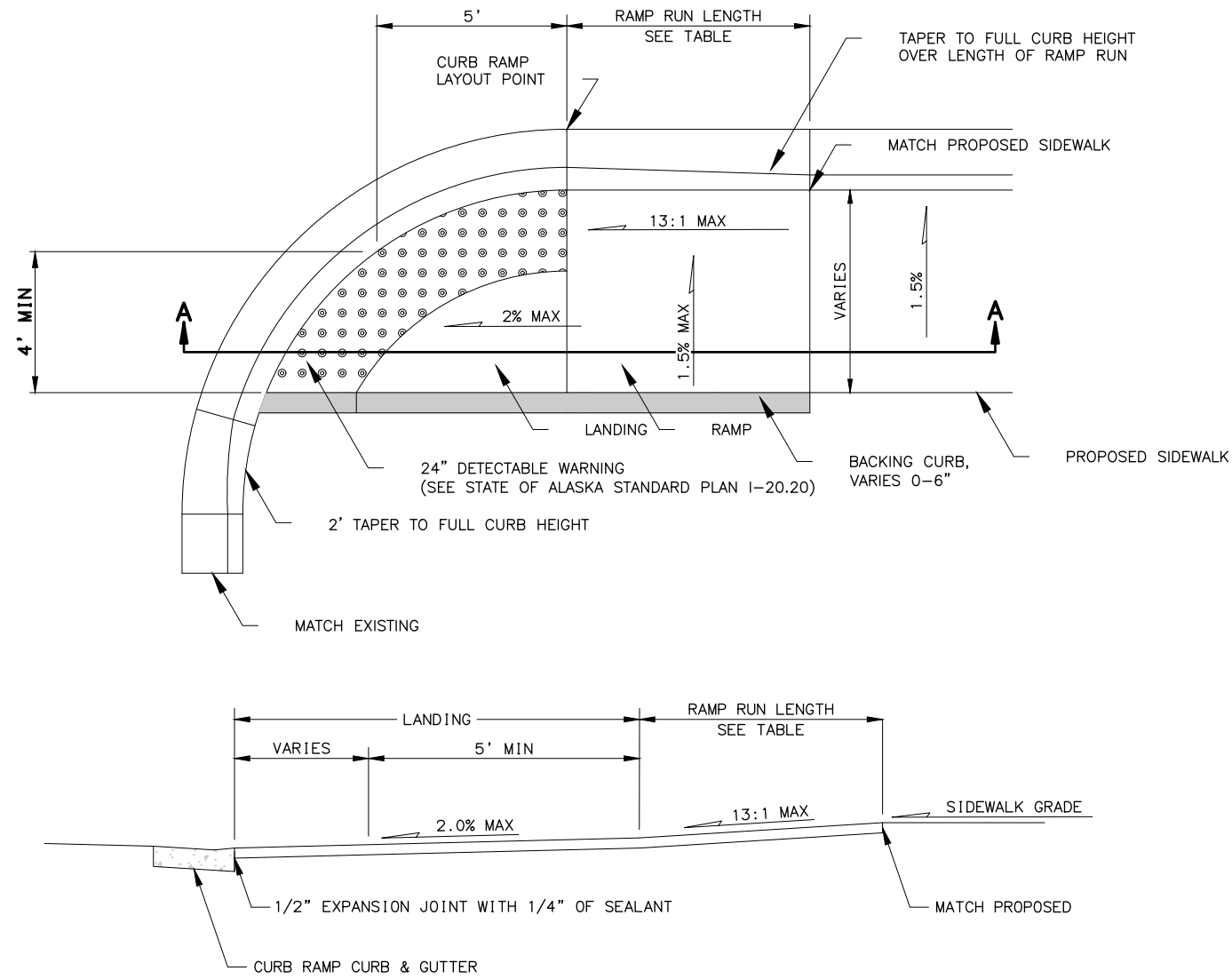


CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

SUMMARY TABLES

HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

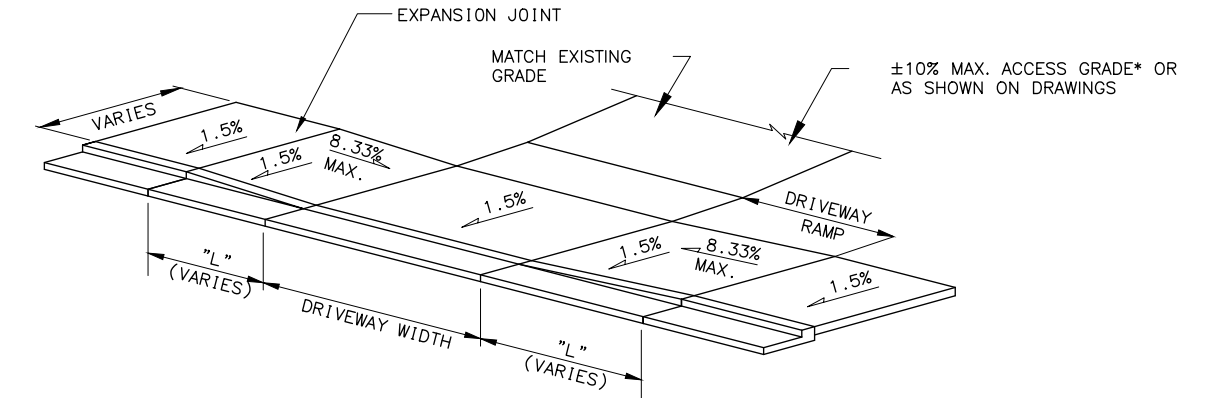
NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	E1	E4



**SECTION A-A
UNIDIRECTIONAL CURB RAMP**

UNIDIRECTIONAL CURB RAMP CONSTRUCTION NOTES:

1. CONSTRUCT UNIDIRECTIONAL RAMPS AND LANDINGS WITH A BROOM FINISH PERPENDICULAR TO THE LONG DIRECTION OF THE RAMP.
2. CONTRACTOR SHALL CONSTRUCT THE RAMP PORTION OF THE CURB RAMP WITH A 1.5% CROSS SLOPE. THE RUNNING SLOPE IS 5% MINIMUM AND 8.33% MAXIMUM, BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15-FT.
3. CONTRACTOR SHALL CONSTRUCT LANDINGS WITH A MAXIMUM 2% RUNNING SLOPE AND 1.5% CROSS SLOPE.
4. CONTRACTOR SHALL CONSTRUCT BACKING CURB BEHIND LANDING AND RAMPS WHERE SHOWN OR AS DIRECTED BY THE ENGINEER. BACKING CURB IS INCIDENTAL TO CURB RAMP AND NO ADDITIONAL PAYMENT WILL BE NEEDED.
5. IF LANDING LENGTH IS LESS THAN 5-FT, CONTRACTOR SHALL INSTALL DETECTABLE WARNINGS AT THE BOTTOM OF THE RAMP. IF THE LANDING LENGTH IS EQUAL TO OR GREATER THAN 5-FT, CONTRACTOR SHALL INSTALL RADIAL DETECTABLE WARNING ALONG TOP BACK OF CURB FOR THE WIDTH OF THE LANDING. DETECTABLE WARNINGS SHALL BE INSTALLED I.A.W. MANUFACTURER'S RECOMMENDATIONS AND ALIGNED SUCH THAT THE TRUNCATED DOMES ARE IN LINE WITH THE DIRECTION OF TRAVEL.



* MAXIMUM ALGEBRAIC DIFFERENCE IS 8% ON COMMERCIAL/INDUSTRIAL DRIVEWAYS.

**TYPICAL DRIVEWAY ENTRANCE
(WITH ATTACHED SIDEWALK)**

DRIVEWAY RAMP RUNNING SLOPE TABLE		
STREET RUNNING SLOPE	MINIMUM UPHILL RAMP LENGTH "L"	MINIMUM DOWNHILL RAMP LENGTH "L"
0.0% TO 0.5%	6.0'	6.0'
> 0.5% TO 1.6%	7.0'	6.0'
> 1.6% TO 2.4%	8.0'	5.0'
> 2.4% TO 3.1%	9.0'	5.0'
> 3.1% TO 3.6%	10.0'	5.0'
> 3.6% TO 4.0%	11.0'	4.0'
> 4.0% TO 4.4%	12.0'	4.0'
> 4.4% TO 4.7%	13.0'	4.0'
> 4.7% TO 5.0%	14.0'	4.0'
> 5.0%	15.0'	4.0'



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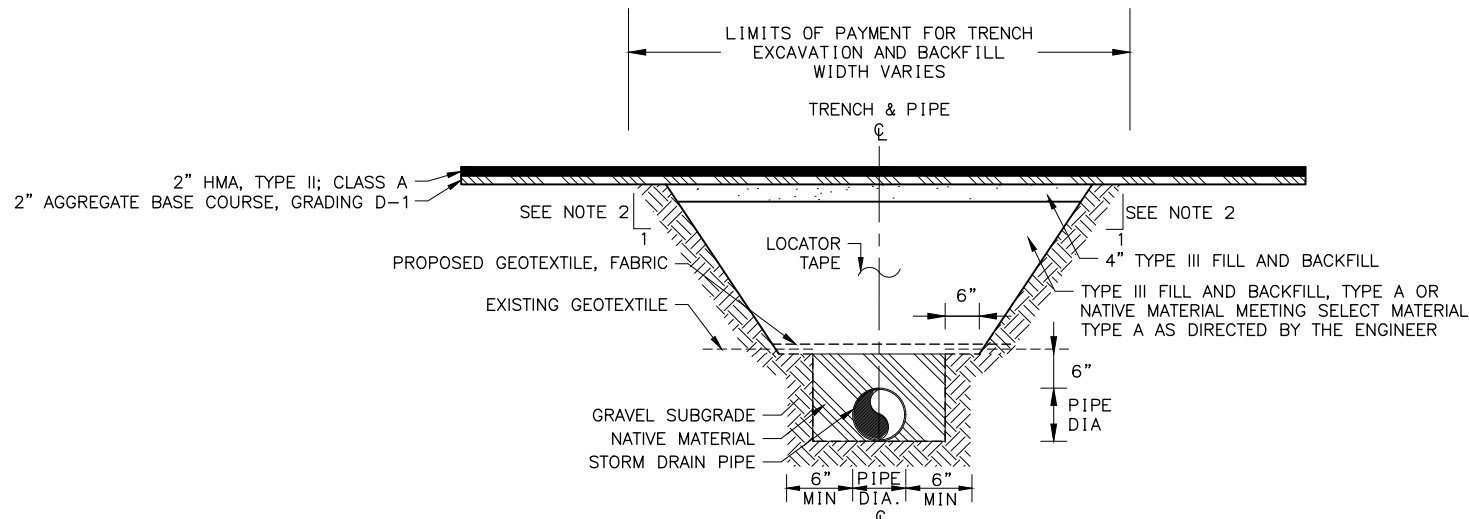
CITY OF HOMER
PUBLIC WORKS DEPARTMENT
**MAIN STREET
SIDEWALK IMPROVEMENTS**

DETAILS

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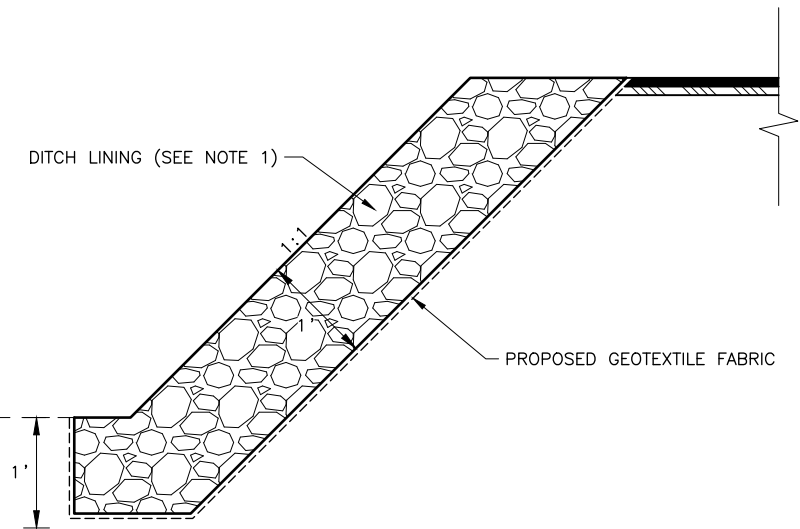
NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	E2	E4



1 TYPICAL TRENCH DETAIL
E2 NTS

NOTES

- TRENCH BACKFILL MATERIAL PLACED AND COMPACTED TO DEPTHS SHOWN IN THE DRAWINGS OR AS DETERMINED BY THE ENGINEER. COMPACT TRENCH BACKFILL IN 12 INCH LIFTS TO A MINIMUM OF 90% MAXIMUM DENSITY.
- TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
- PROPOSED GEOTEXTILE SHALL OVERLAP EXISTING GEOTEXTILE A MIN OF 6 INCHES.
- BACKFILL TRENCH USING EXCAVATED NATIVE MATERIAL.

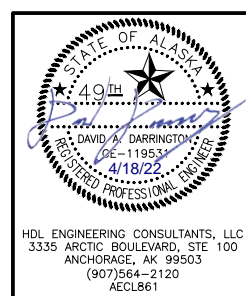


2 1:1 SLOPE DETAIL
E2 NTS

NOTES

- DITCH LINING SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - USE CRUSHED ROCK WITH AT LEAST TWO FRACTURED FACES
 - USING AASHTO T96, THERE SHALL BE NO MORE THAN 50% WEAR AT 500 REVOLUTIONS
 - THE GREATEST DIMENSION OF THE ROCKS SHOULD NOT EXCEED 8 INCHES
 - NO MORE THAN 50% BY WEIGHT SHALL PASS THE 3 INCH SIEVE
 - NO MORE THAN 5% BY WEIGHT SHALL PASS THE 1 INCH SIEVE

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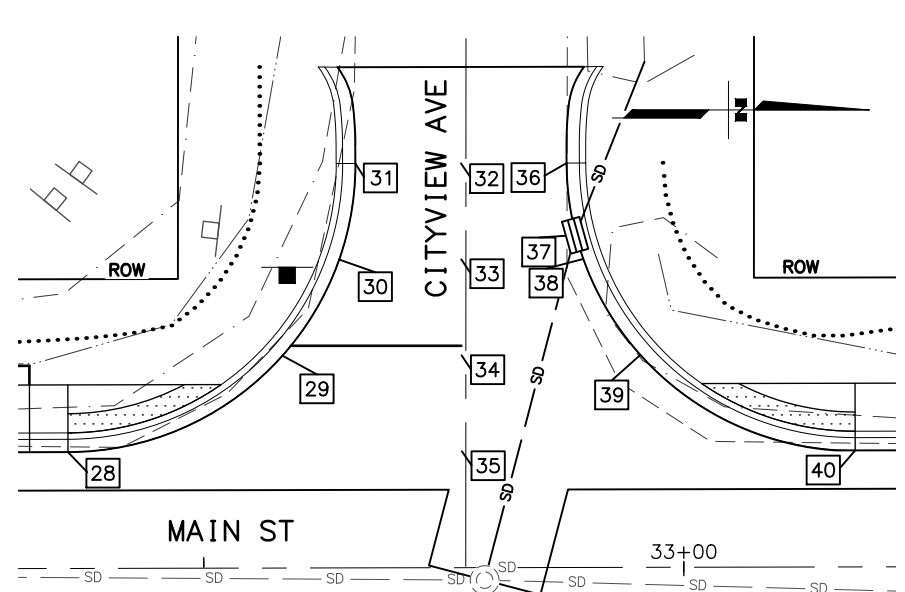
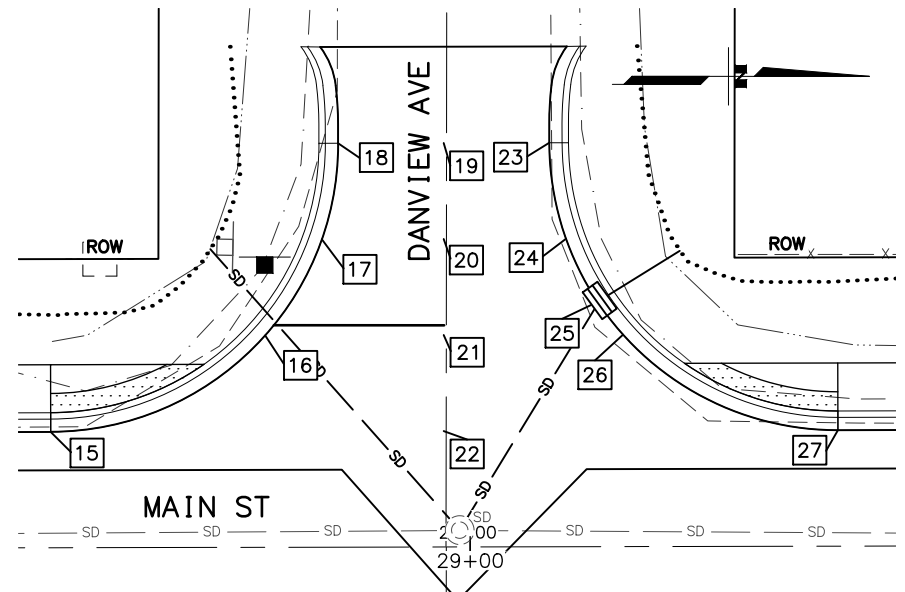
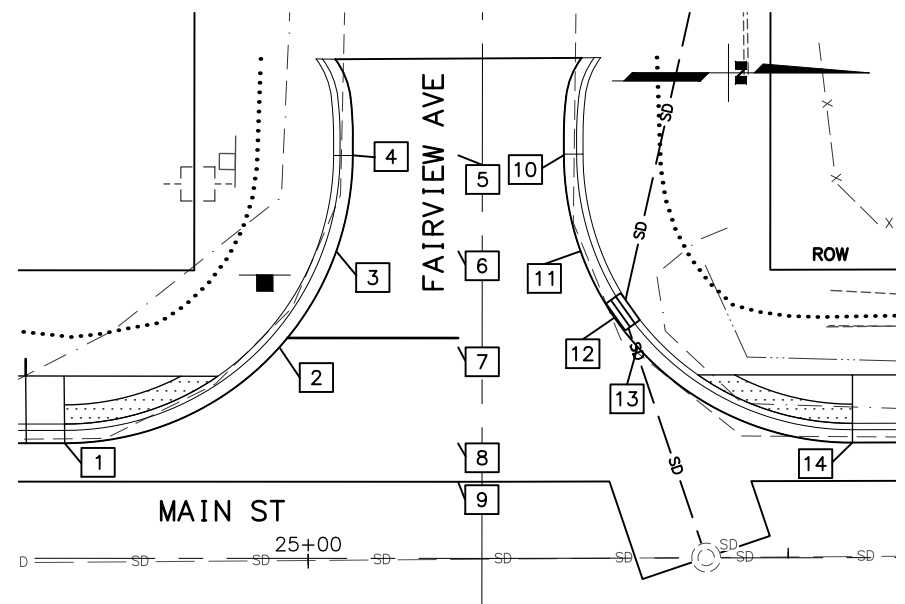


CITY OF HOMER
PUBLIC WORKS DEPARTMENT
**MAIN STREET
SIDEWALK IMPROVEMENTS**

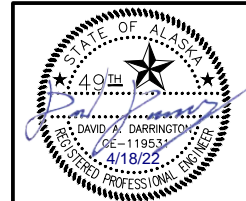
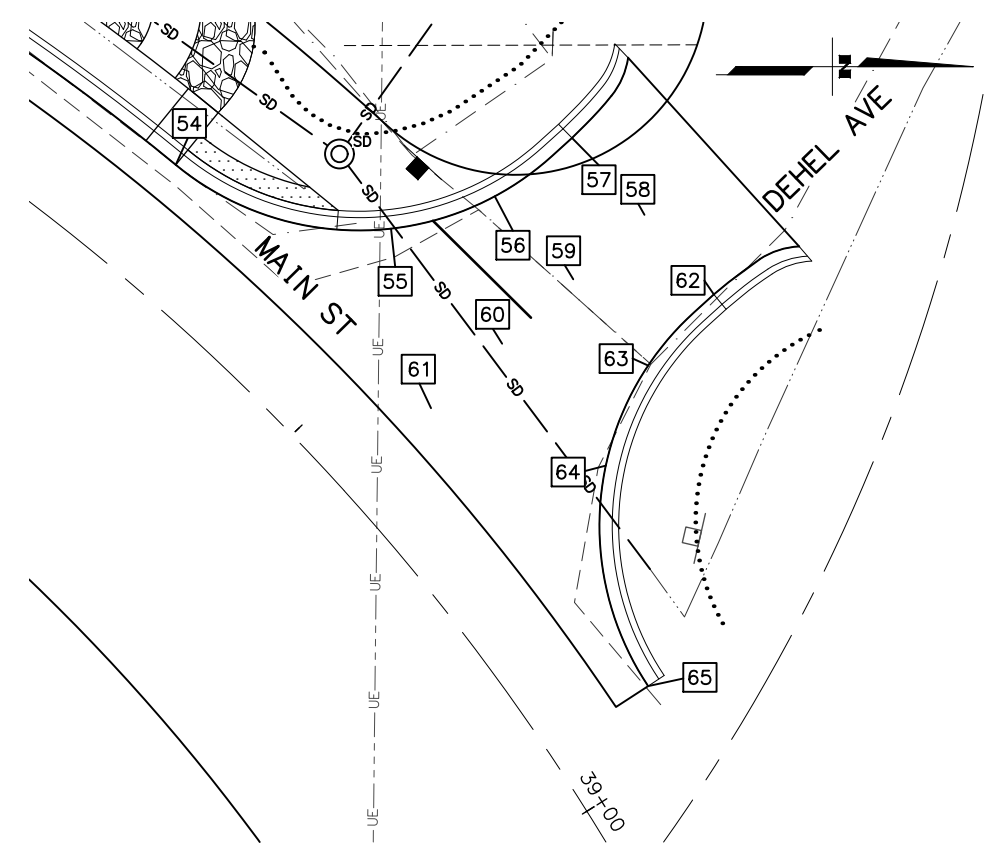
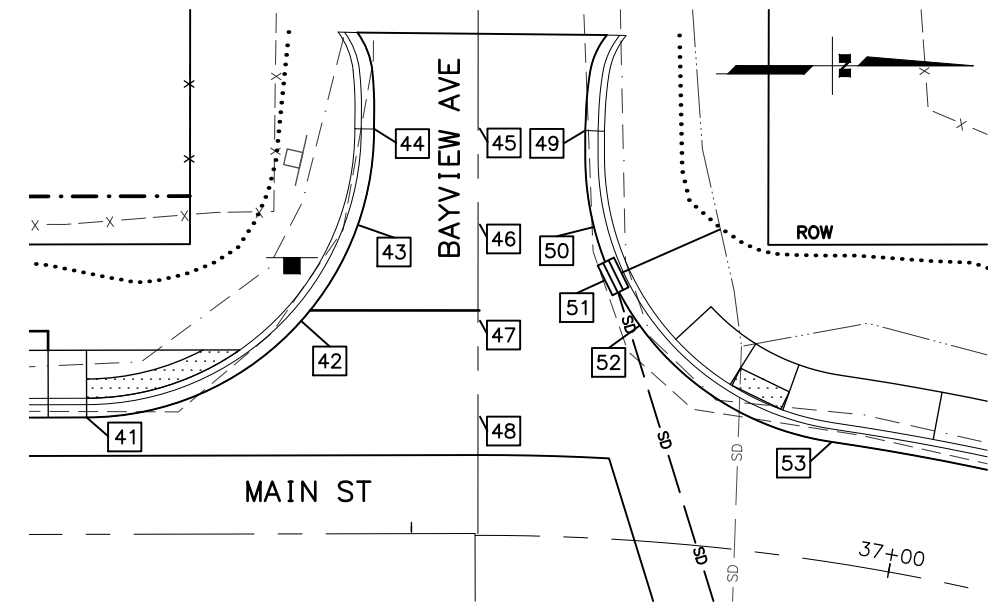
DETAILS

HDL ENGINEERING CONSULTANTS, LLC
3335 ARCTIC BOULEVARD, STE 100
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 DESIGNED BY: [Redacted]
 CHECKED BY: [Redacted]
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LAYOUT SCHEDULE				
POINT	STATION	OFFSET	ELEVATION	REMARKS
1	24+74.63	12.00 LT	248.72	LIP OF CURB
2	24+96.99	22.00 LT	250.04	LIP OF CURB
3	25+02.91	32.00 LT	250.64	LIP OF CURB
4	25+04.63	42.00 LT	251.18	BEGIN CURB TERMINATION
5	25+15.63	42.00 LT	251.60	ASPHALT CROWN
6	25+15.62	32.00 LT	251.17	ASPHALT CROWN
7	25+15.61	22.00 LT	250.73	ASPHALT CROWN
8	25+15.61	12.00 LT	250.53	ASPHALT CROWN
9	25+15.60	8.00 LT	250.61	ASPHALT CROWN
10	25+26.72	42.00 LT	251.78	BEGIN CURB TERMINATION
11	25+28.44	32.00 LT	251.51	LIP OF CURB
12	25+31.95	25.07 LT	251.31	STORM DRAIN
13	25+34.36	22.00 LT	251.44	LIP OF CURB
14	25+56.72	12.00 LT	252.24	LIP OF CURB
15	28+56.34	12.00 LT	273.98	LIP OF CURB
16	28+78.70	22.00 LT	275.06	LIP OF CURB
17	28+84.62	32.00 LT	275.34	LIP OF CURB
18	28+86.34	42.00 LT	275.71	BEGIN CURB TERMINATION
19	28+97.34	42.00 LT	275.83	ASPHALT CROWN
20	28+97.31	32.00 LT	275.77	ASPHALT CROWN
21	28+97.29	22.00 LT	275.71	ASPHALT CROWN
22	28+97.27	12.00 LT	275.64	ASPHALT CROWN
23	29+08.33	42.00 LT	275.96	BEGIN CURB TERMINATION
24	29+10.05	32.00 LT	275.91	LIP OF CURB
25	29+13.33	25.42 LT	275.88	STORM DRAIN
26	29+15.97	22.00 LT	275.99	LIP OF CURB
27	29+38.33	12.00 LT	276.67	LIP OF CURB
28	32+35.88	12.00 LT	290.54	LIP OF CURB
29	32+58.24	22.00 LT	291.94	LIP OF CURB
30	32+64.16	32.00 LT	292.36	LIP OF CURB
31	32+65.88	42.00 LT	292.62	BEGIN CURB TERMINATION
32	32+76.88	42.00 LT	293.05	ASPHALT CROWN
33	32+76.89	32.00 LT	292.93	ASPHALT CROWN
34	32+76.90	22.00 LT	292.81	ASPHALT CROWN
35	32+76.91	12.00 LT	292.69	ASPHALT CROWN
36	32+87.88	42.00 LT	293.25	BEGIN CURB TERMINATION
37	32+88.83	34.49 LT	293.22	STORM DRAIN
38	32+88.83	34.49 LT	293.32	LIP OF CURB
39	32+95.52	22.00 LT	293.58	LIP OF CURB
40	33+17.88	12.00 LT	294.81	LIP OF CURB
41	36+16.19	12.00 LT	318.19	LIP OF CURB
42	36+38.56	22.00 LT	320.22	LIP OF CURB
43	36+44.48	32.00 LT	320.89	LIP OF CURB
44	36+46.19	42.00 LT	321.32	BEGIN CURB TERMINATION
45	36+57.16	42.00 LT	321.67	ASPHALT CROWN
46	36+57.16	32.00 LT	321.41	ASPHALT CROWN
47	36+57.16	22.00 LT	321.16	ASPHALT CROWN
48	36+57.16	12.00 LT	320.96	ASPHALT CROWN
49	36+66.51	42.00 LT	321.77	BEGIN CURB TERMINATION
50	36+67.65	32.00 LT	321.72	LIP OF CURB
51	36+69.50	26.86 LT	321.69	STORM DRAIN
52	36+72.42	22.00 LT	321.76	LIP OF CURB
53	36+92.17	12.00 LT	322.04	LIP OF CURB
54	38+22.68	12.00 LT	330.44	LIP OF CURB
55	38+42.43	22.00 LT	332.96	LIP OF CURB
56	38+47.20	32.00 LT	334.69	LIP OF CURB
57	38+48.33	42.00 LT	336.14	BEGIN CURB TERMINATION
58	38+57.70	42.00 LT	335.87	ASPHALT CROWN
59	38+57.70	32.00 LT	334.75	ASPHALT CROWN
60	38+57.70	22.00 LT	333.63	ASPHALT CROWN
61	38+57.70	12.00 LT	332.52	ASPHALT CROWN
62	38+67.06	42.00 LT	335.77	BEGIN CURB TERMINATION
63	38+68.19	32.00 LT	334.81	LIP OF CURB
64	38+72.96	22.00 LT	333.97	LIP OF CURB
65	38+92.71	12.00 LT	333.26 ±ME	LIP OF CURB



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 ANCHORAGE, AK 99503
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CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 APPROACH DETAILS

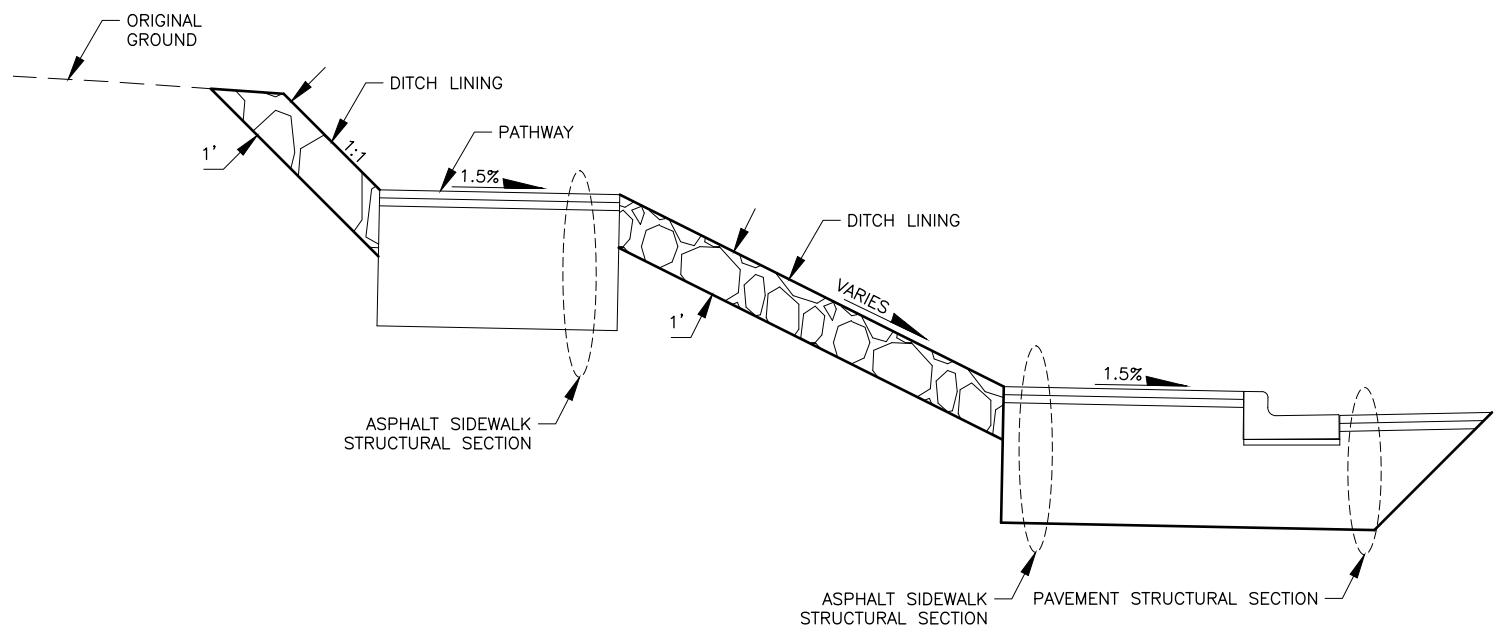
NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	E4	E4

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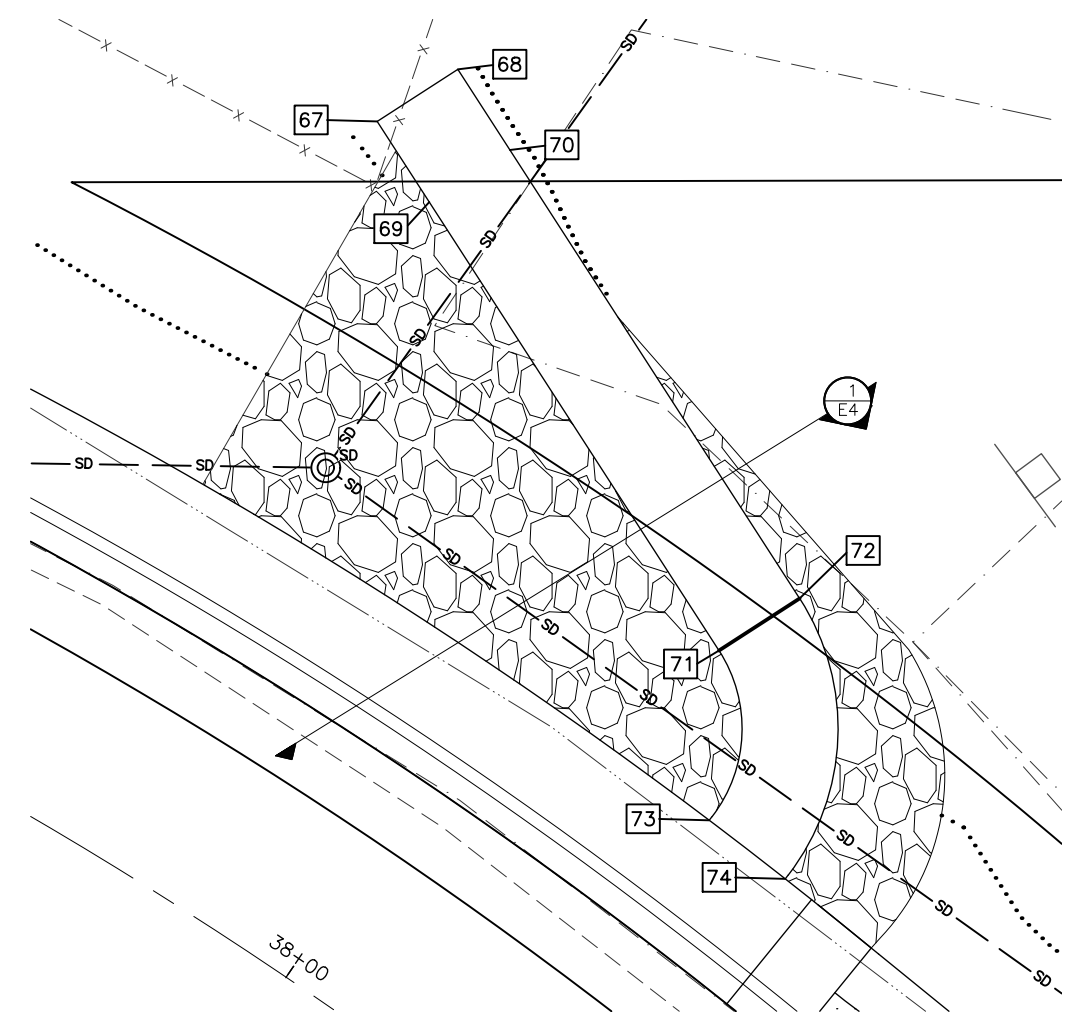
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1 PATHWAY TYPICAL
E4 NTS

LAYOUT SCHEDULE				
POINT	STATION	OFFSET	ELEVATION	REMARKS
67	37+81.96	39.91 LT	332.22	PATHWAY
68	37+83.90	44.35 LT	332.30	PATHWAY
69	37+85.79	37.64 LT	332.12	PATHWAY LANDING
70	37+87.69	42.12 LT	332.20	PATHWAY LANDING
71	38+08.25	26.40 LT	330.77	PATHWAY, PC, R=7.5'
72	38+09.84	31.07 LT	330.85	PATHWAY, PC, R=12.5'
73	38+12.68	19.00 LT	330.26	PATHWAY, PT
74	38+17.32	19.00 LT	330.62	PATHWAY, PT



STATE OF ALASKA
49th
DAVID A. DARRINGTON
PE-11953
4/18/22
REGISTERED PROFESSIONAL ENGINEER

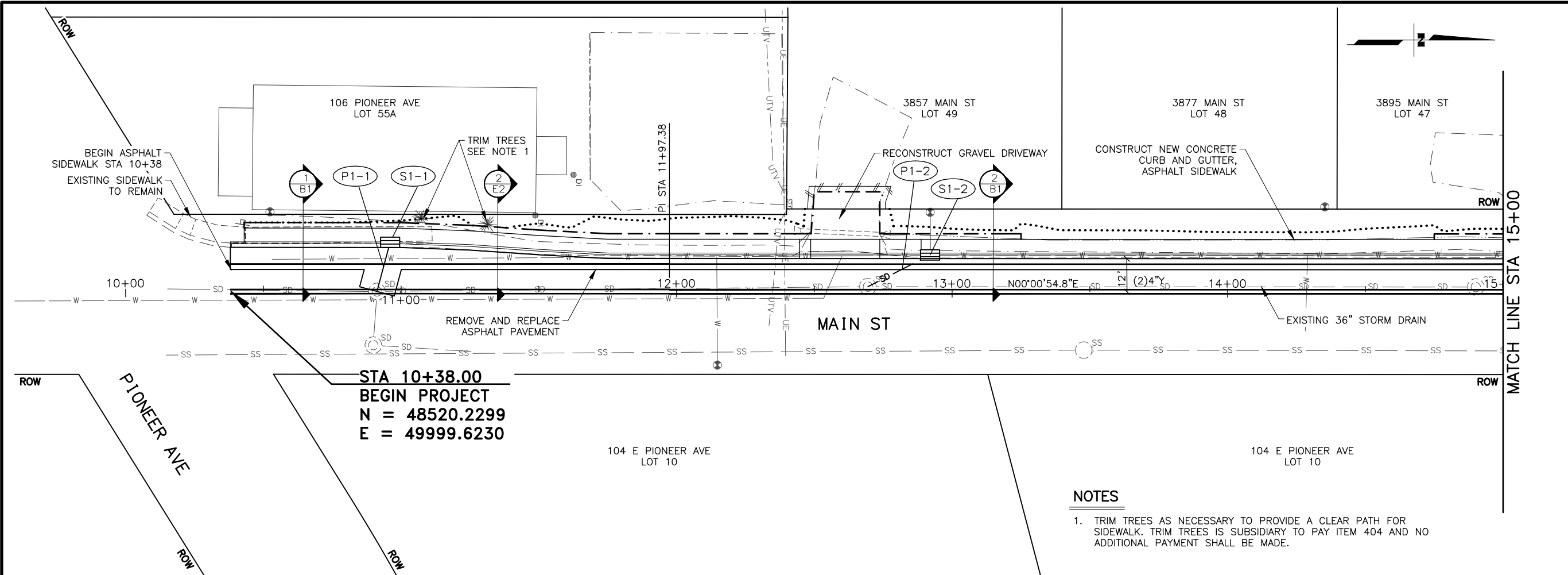
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CITY OF HOMER
PUBLIC WORKS DEPARTMENT

**MAIN STREET
SIDEWALK IMPROVEMENTS**

PATHWAY DETAILS

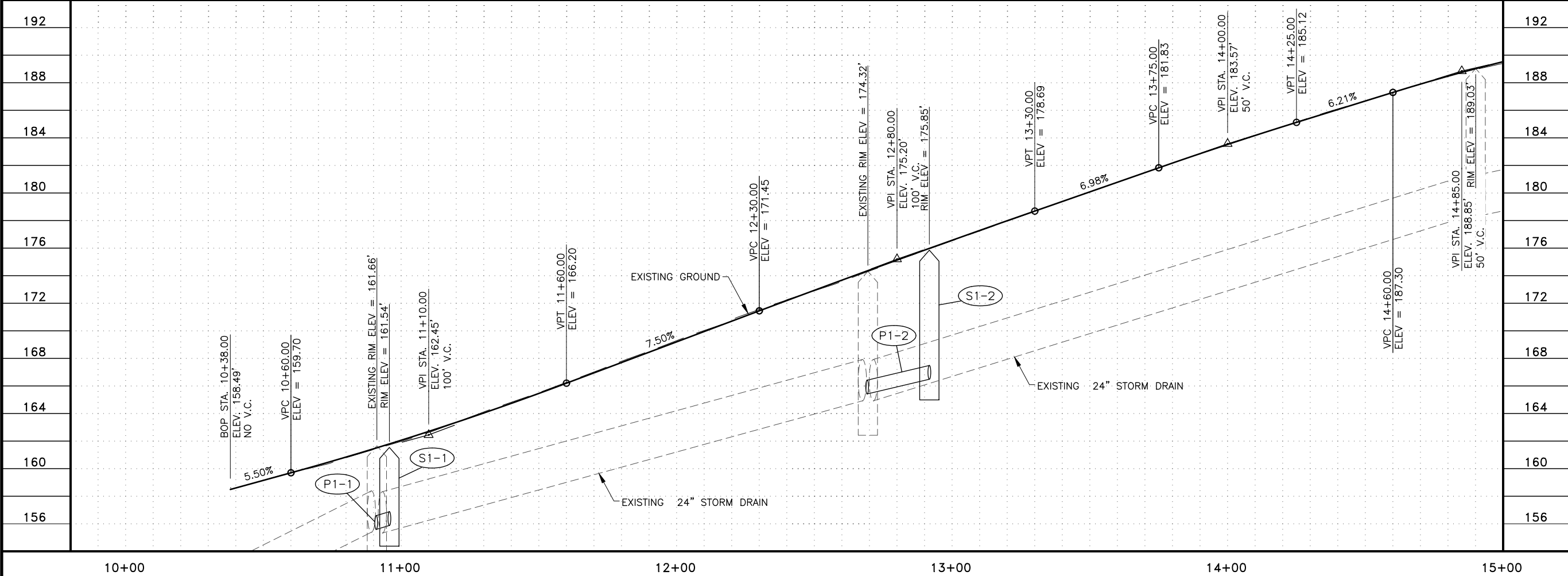
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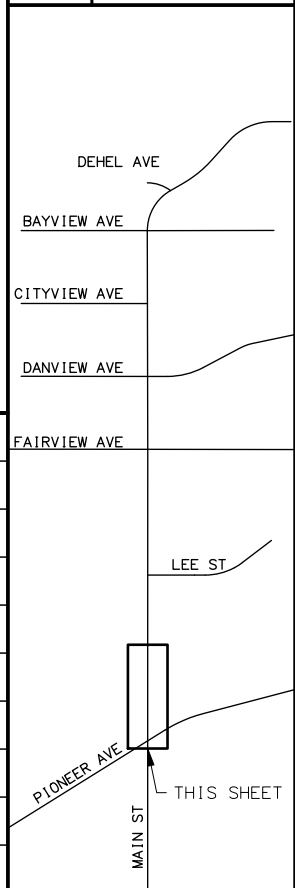
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NOTES

1. TRIM TREES AS NECESSARY TO PROVIDE A CLEAR PATH FOR SIDEWALK. TRIM TREES IS SUBSIDIARY TO PAY ITEM 404 AND NO ADDITIONAL PAYMENT SHALL BE MADE.



SHEET NO.	TOTAL SHEETS
F1	F6
YEAR	
2022	
PROJECT DESIGNATION	
160-0782	
NO.	REVISION
NO.	REVISION
NO.	REVISION

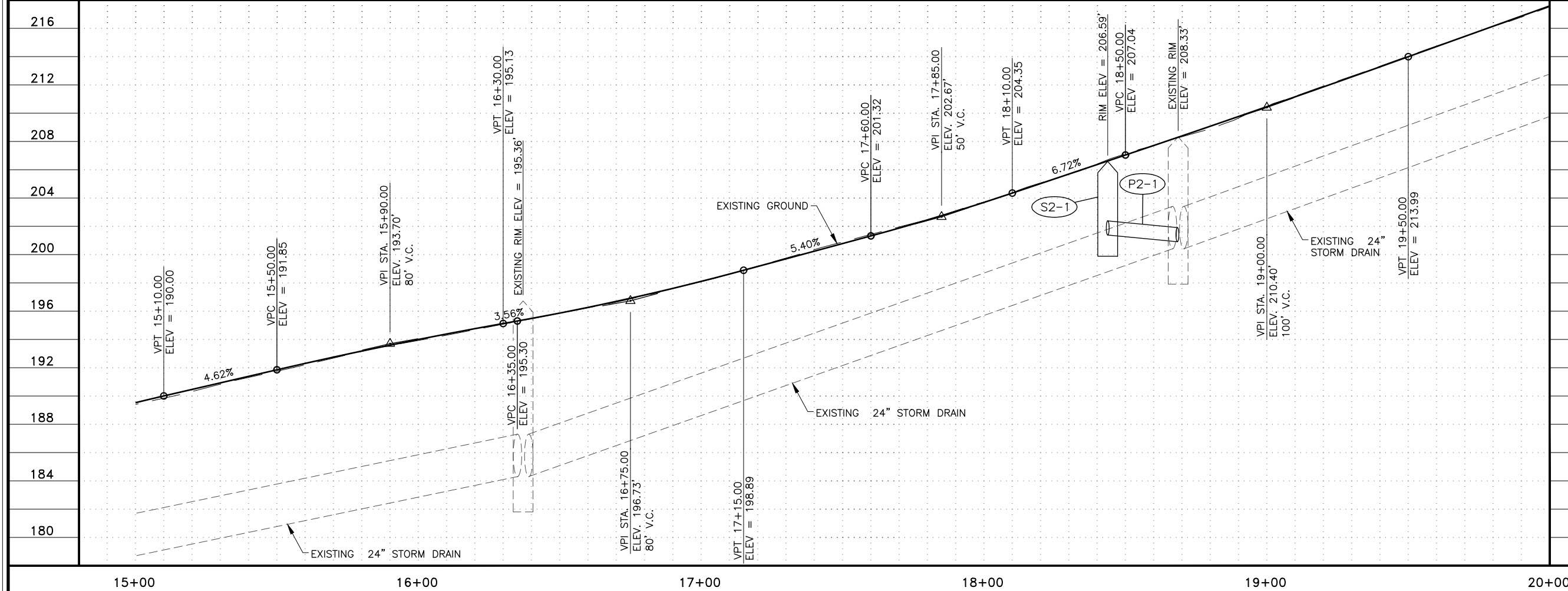
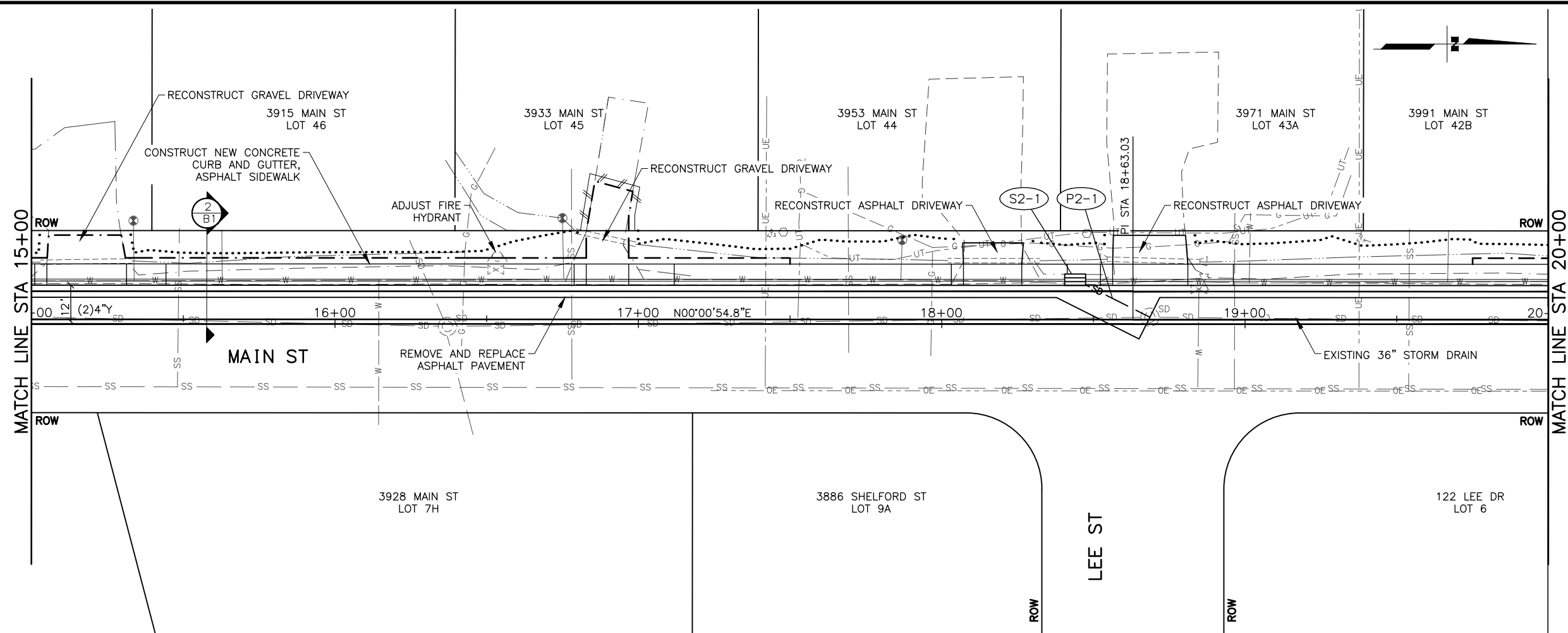


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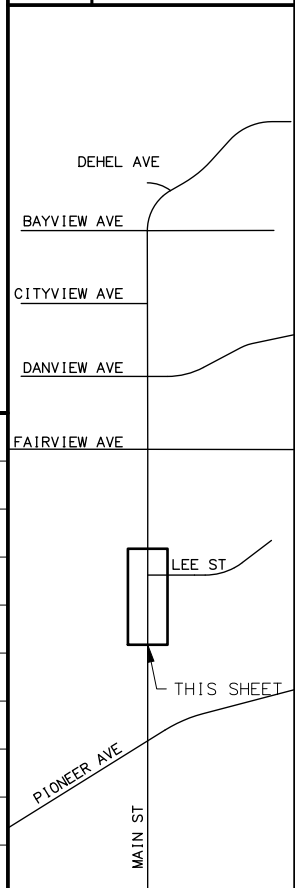
CITY OF HOMER
MAIN STREET
SIDEWALK IMPROVEMENTS
PLAN AND PROFILE
PIONEER AVE
BOP TO 15+00

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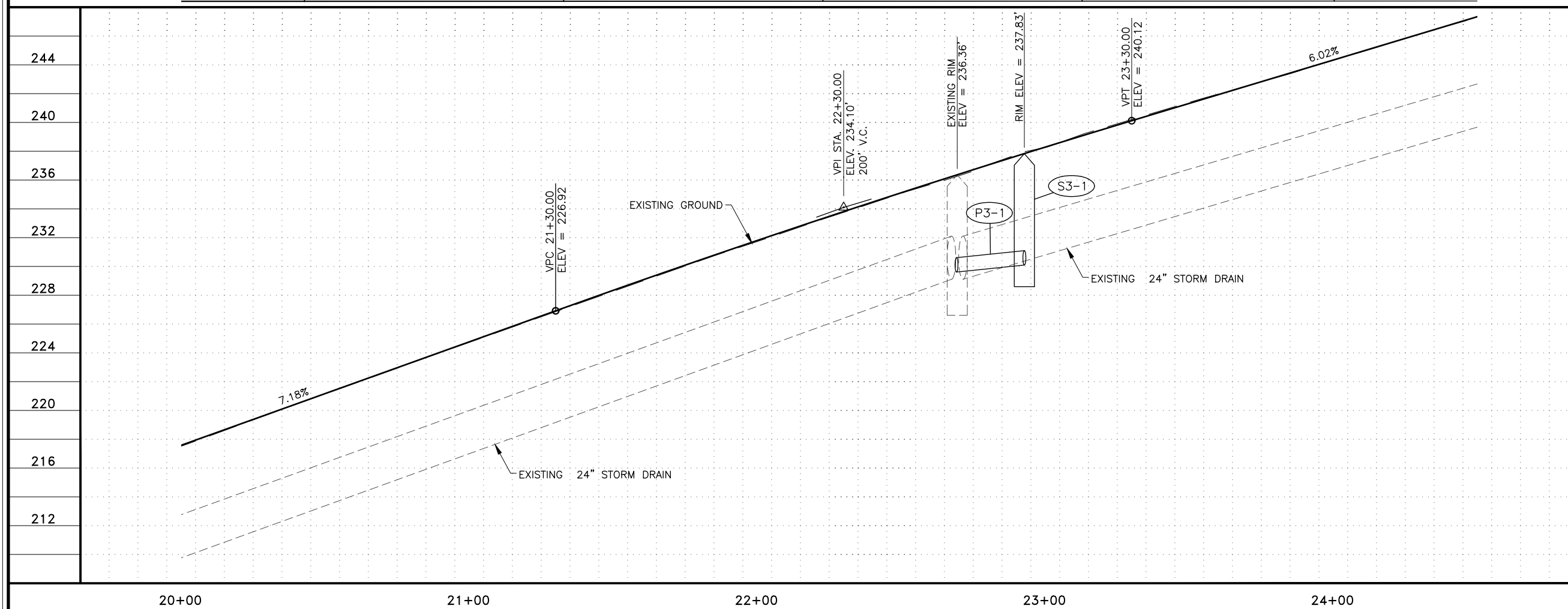
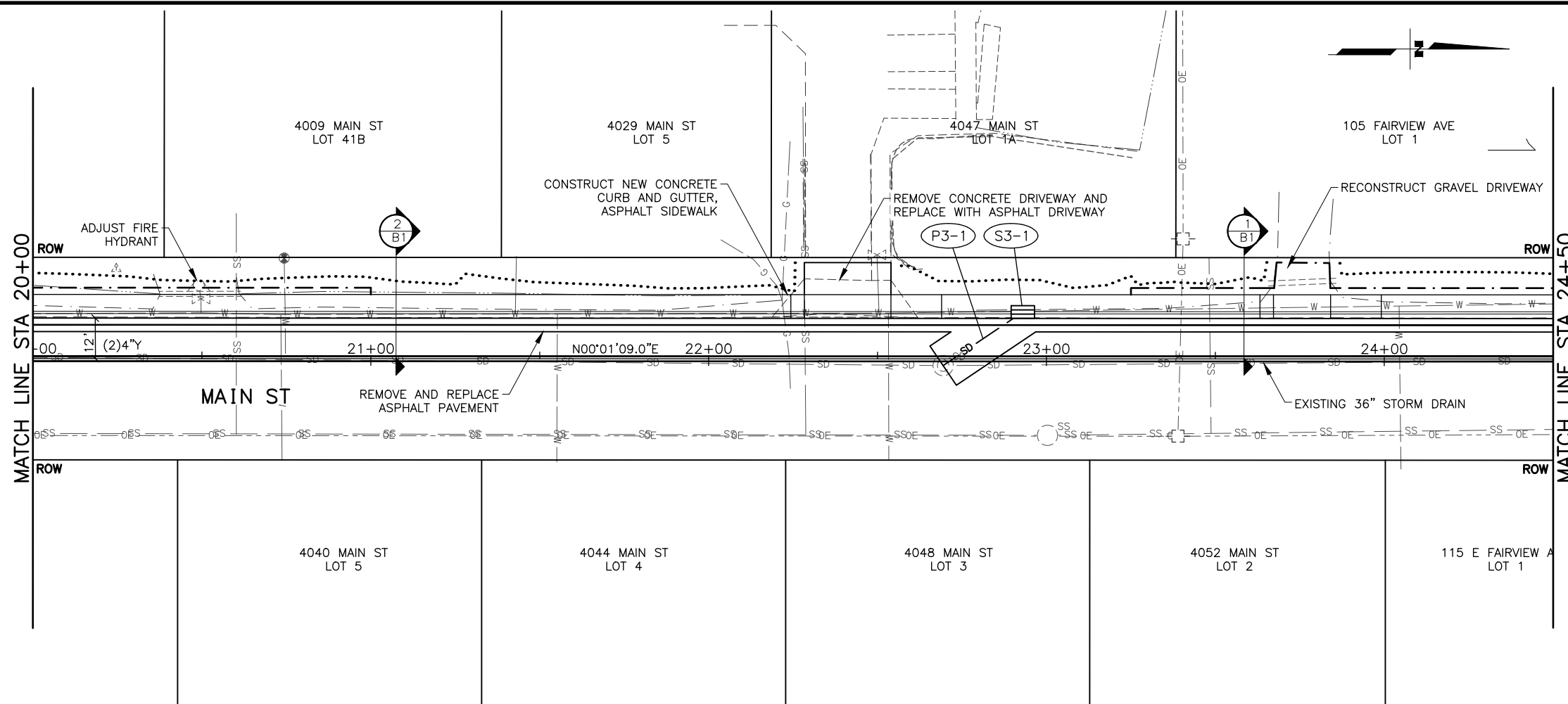
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YEAR	
2022	
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NO.	REVISION
NO.	REVISION
NO.	REVISION



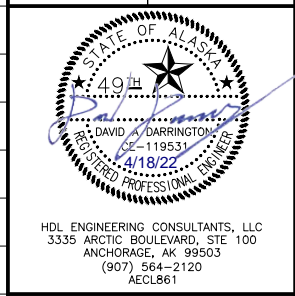
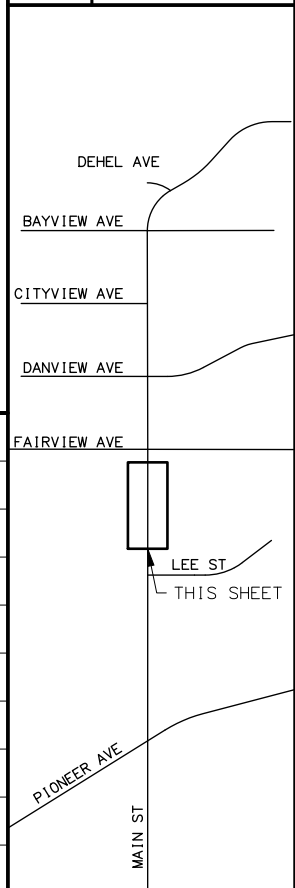
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 ANCHORAGE, AK 99503
 (907) 564-2120
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CITY OF HOMER
 MAIN STREET
 SIDEWALK IMPROVEMENTS
 PLAN AND PROFILE
 LEE ST
 15+00 TO 20+00

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 CHECKED BY: NMO
 DRAFTED BY: WP



SHEET NO.	TOTAL SHEETS
F3	F6
YEAR	
2022	
PROJECT DESIGNATION	
160-0782	
NO.	REVISION
NO.	REVISION
NO.	REVISION

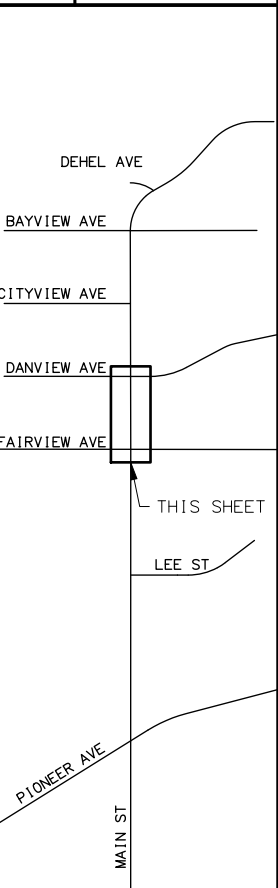


CITY OF HOMER
MAIN STREET SIDEWALK IMPROVEMENTS
PLAN AND PROFILE
20+00 TO 24+50

DATE: 4/11/2022 2:36 PM
 TIME: 2:36 PM
 SCALE: 1"=20'
 DESIGNED BY: NMO
 CHECKED BY: NMO
 DRAFTED BY: WP

H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_F01-F06.DWG

SHEET NO.	TOTAL SHEETS
F4	F6
YEAR	
2022	
PROJECT DESIGNATION	
160-0782	
NO.	REVISION
NO.	REVISION
NO.	REVISION
NO.	REVISION

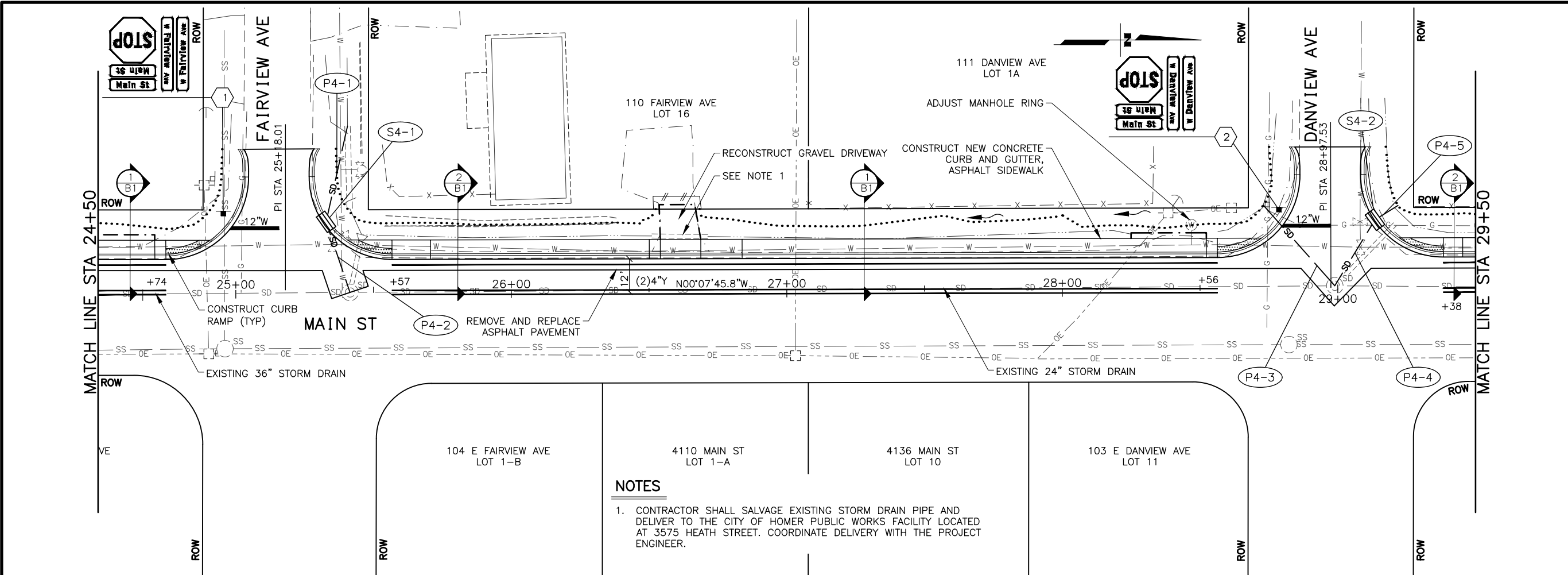


HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907) 564-2120
 AECL861

CITY OF HOMER

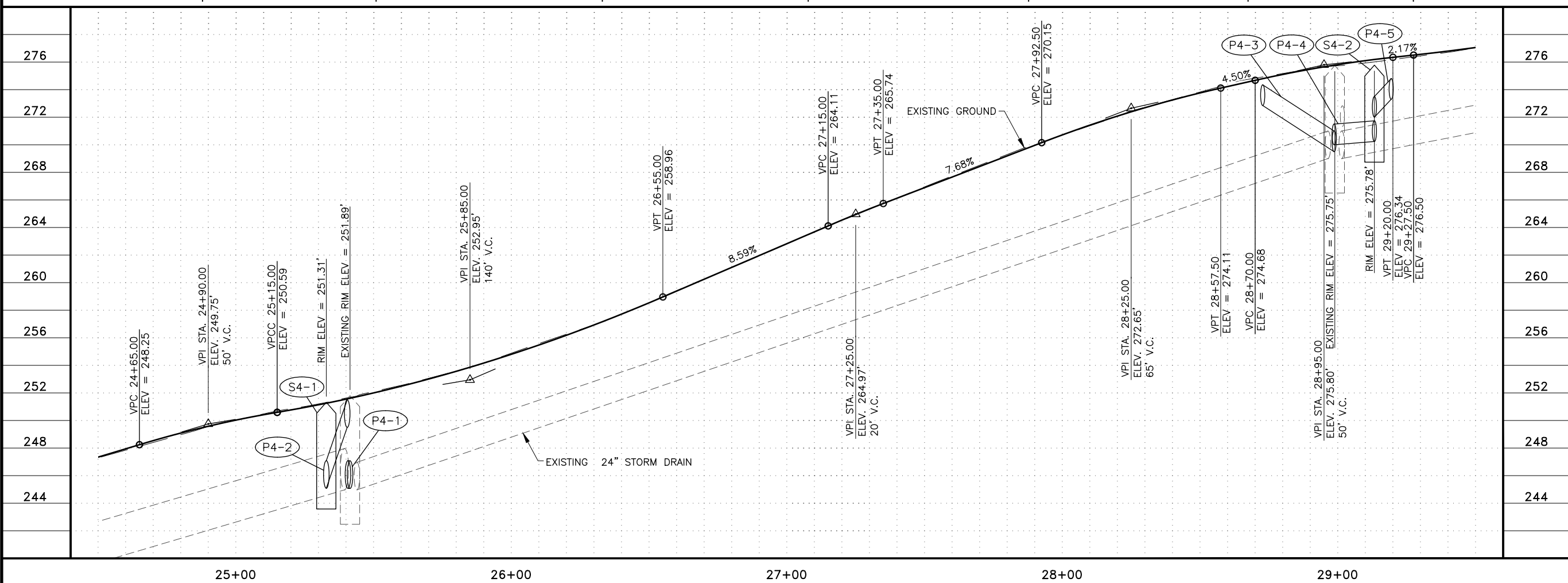
MAIN STREET
 SIDEWALK IMPROVEMENTS

PLAN AND PROFILE
 FAIRVIEW AVE
 24+50 TO 29+50



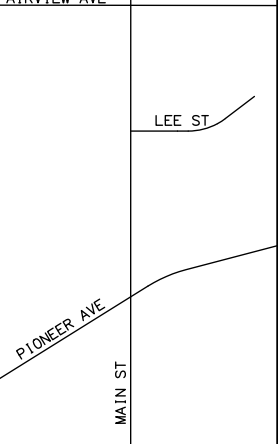
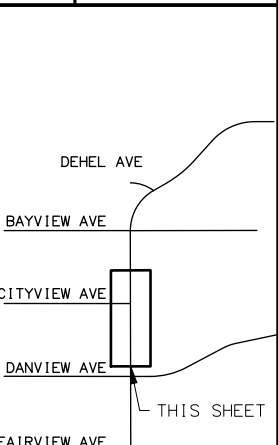
NOTES

1. CONTRACTOR SHALL SALVAGE EXISTING STORM DRAIN PIPE AND DELIVER TO THE CITY OF HOMER PUBLIC WORKS FACILITY LOCATED AT 3575 HEATH STREET. COORDINATE DELIVERY WITH THE PROJECT ENGINEER.



H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK
 DESIGN\CAD\DRAWINGS\17014_02_F01-F06.DWG
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 DESIGNED BY: NMO
 CHECKED BY: NMO
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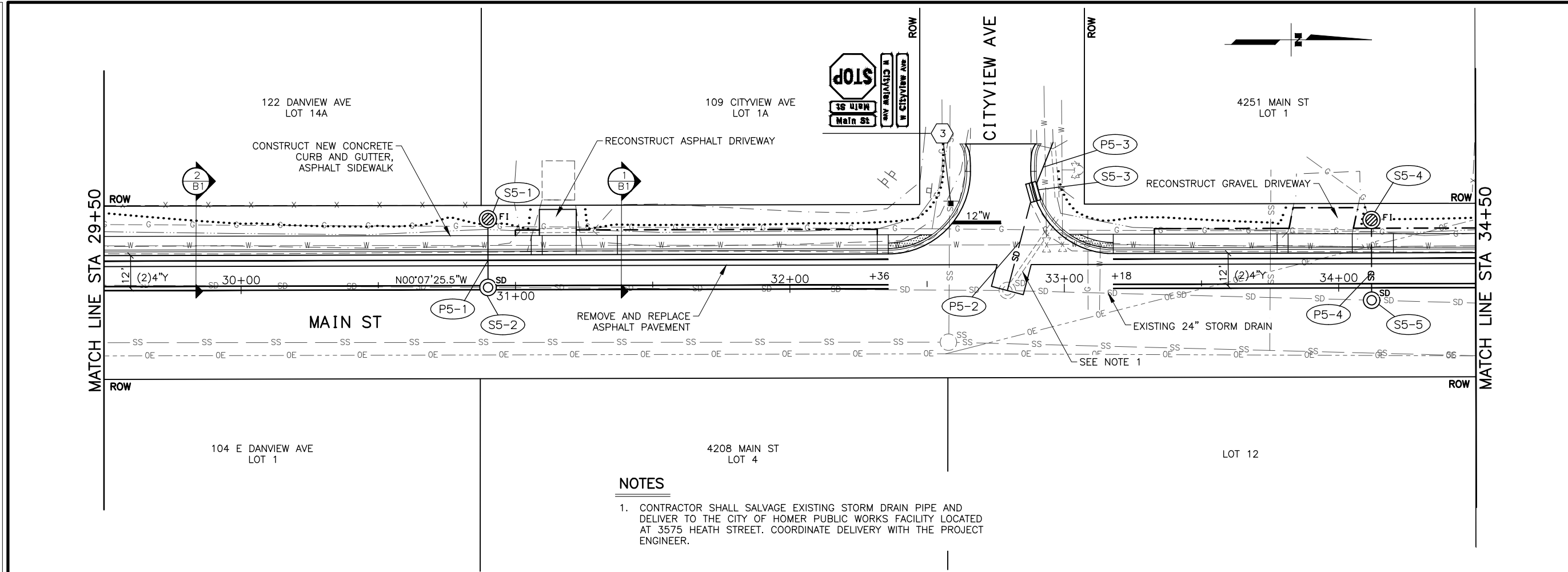
SHEET NO.	TOTAL SHEETS
F5	F6
YEAR	
2022	
PROJECT DESIGNATION	
160-0782	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
 49th
 DAVID M. DARRINGTON
 LICENSE NO. 11953
 4/18/22
 REGISTERED PROFESSIONAL ENGINEER

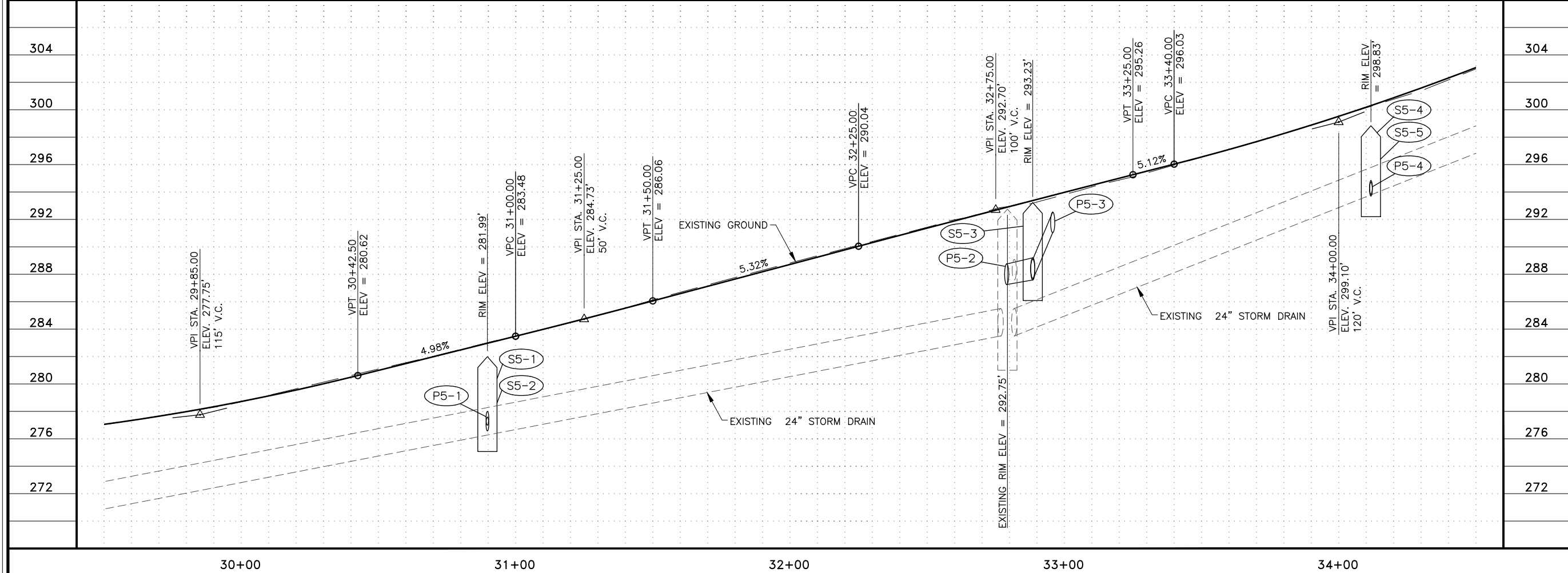
HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907) 564-2120
 AECL861

CITY OF HOMER
 MAIN STREET
 SIDEWALK IMPROVEMENTS
 PLAN AND PROFILE
 CITYVIEW AVE
 29+50 TO 34+50



NOTES

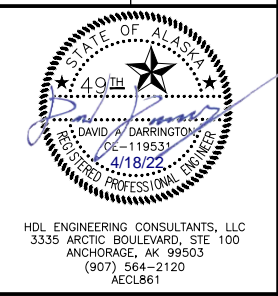
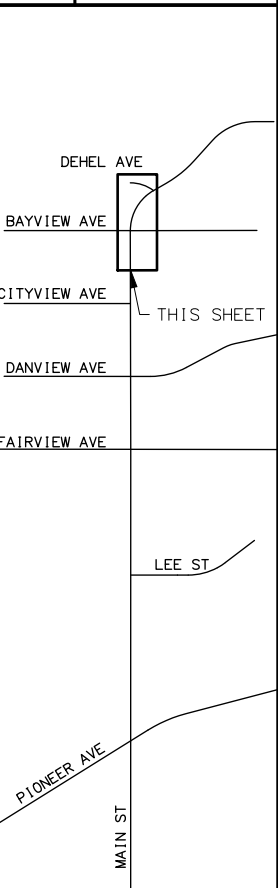
- CONTRACTOR SHALL SALVAGE EXISTING STORM DRAIN PIPE AND DELIVER TO THE CITY OF HOMER PUBLIC WORKS FACILITY LOCATED AT 3575 HEATH STREET. COORDINATE DELIVERY WITH THE PROJECT ENGINEER.



H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_F01-F06.DWG

DATE: 4/11/2022 2:36 PM
 TIME: 2:36 PM
 SCALE: 1"=20'
 DESIGNED BY: NMO
 CHECKED BY: NMO
 DRAFTED BY: WP

SHEET NO.	TOTAL SHEETS
F6	F6
YEAR	
2022	
PROJECT DESIGNATION	
160-0782	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

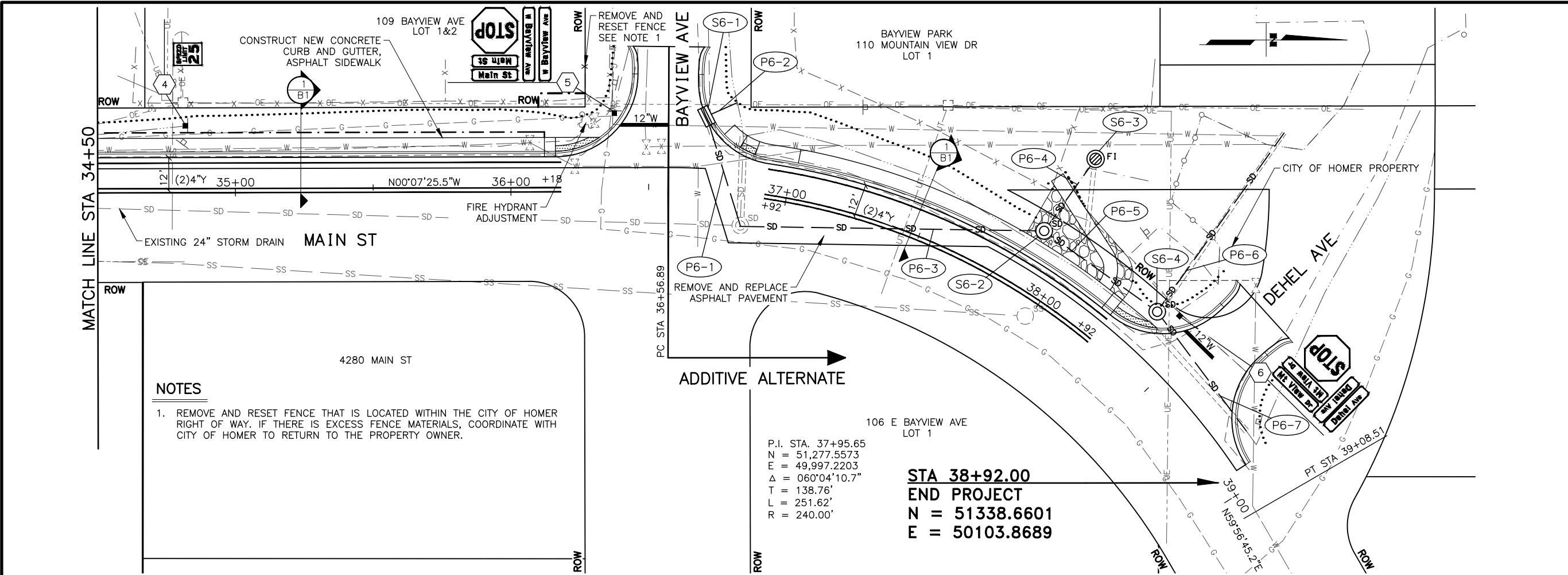


HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907) 564-2120
 AECL861

CITY OF HOMER

MAIN STREET
 SIDEWALK IMPROVEMENTS

PLAN AND PROFILE
 BAYVIEW AVE
 34+50 TO EOP

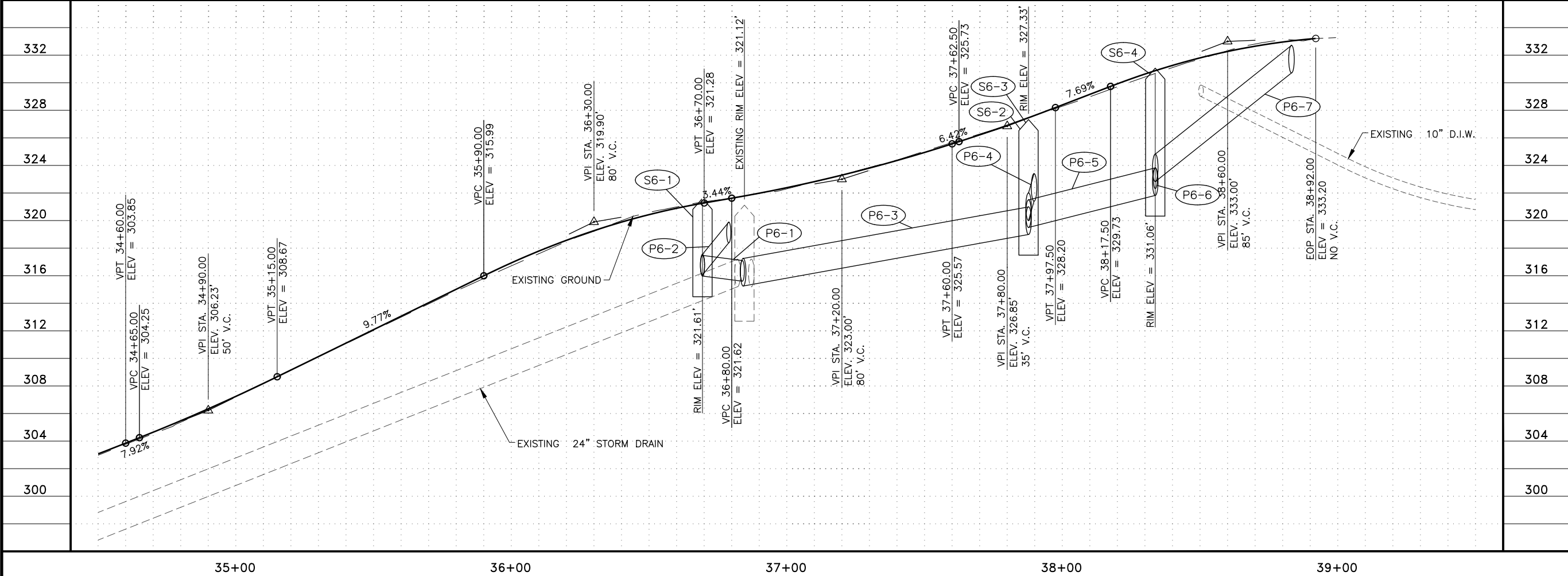


NOTES

1. REMOVE AND RESET FENCE THAT IS LOCATED WITHIN THE CITY OF HOMER RIGHT OF WAY. IF THERE IS EXCESS FENCE MATERIALS, COORDINATE WITH CITY OF HOMER TO RETURN TO THE PROPERTY OWNER.

P.I. STA. 37+95.65
 N = 51,277.5573
 E = 49,997.2203
 $\Delta = 060^{\circ}04'10.7''$
 T = 138.76'
 L = 251.62'
 R = 240.00'

**STA 38+92.00
 END PROJECT
 N = 51338.6601
 E = 50103.8689**



H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_H01.DWG
 DESIGNED BY: _____ CHECKED BY: _____ DRAWN BY: _____
 SCALE: _____ TIME: 4:38 PM DATE: 3/31/2022

NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	H1	H4

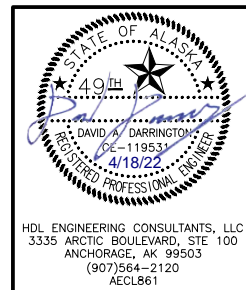
SIGNING & STRIPING NOTES:

1. ALL STATION AND OFFSET LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS PER THE STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.
2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
 - A. PT MEANS A PERFORATED STEEL TUBE.
 - B. T MEANS A SQUARE STEEL TUBE.
 - C. P MEANS A ROUND STEEL PIPE.
 - D. W MEANS A WIDE FLANGE BEAM.
 - E. POPL MEANS A POLE PLATE INSTALLED PER STANDARD PLANS.
3. FABRICATE ALL SIGNS FROM 0.125-IN THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN IN THE STANDARD PLANS. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12-IN.
6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM 6-FT CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM 8-FT CENTERS.
9. SELECTIVE HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IAW SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
10. ALL FINAL PAVEMENT MARKINGS SHALL BE SURFACE APPLIED AS SPECIFIED IN SECTION 670 OF THE SPECIFICATIONS.
11. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR LIP OF CURB WHEN PRESENT.
12. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
13. WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IAW SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.

CALL BEFORE YOU DIG!
 CONTRACTOR SHALL CALL A MINIMUM OF
 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

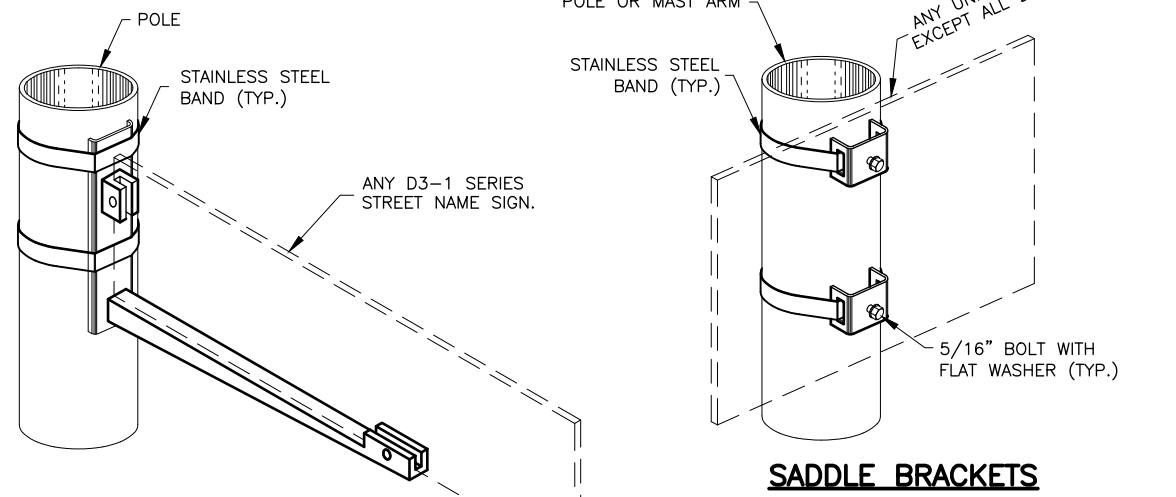
CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM
 FOR MEMBER LIST OF WHO WILL BE NOTIFIED



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT

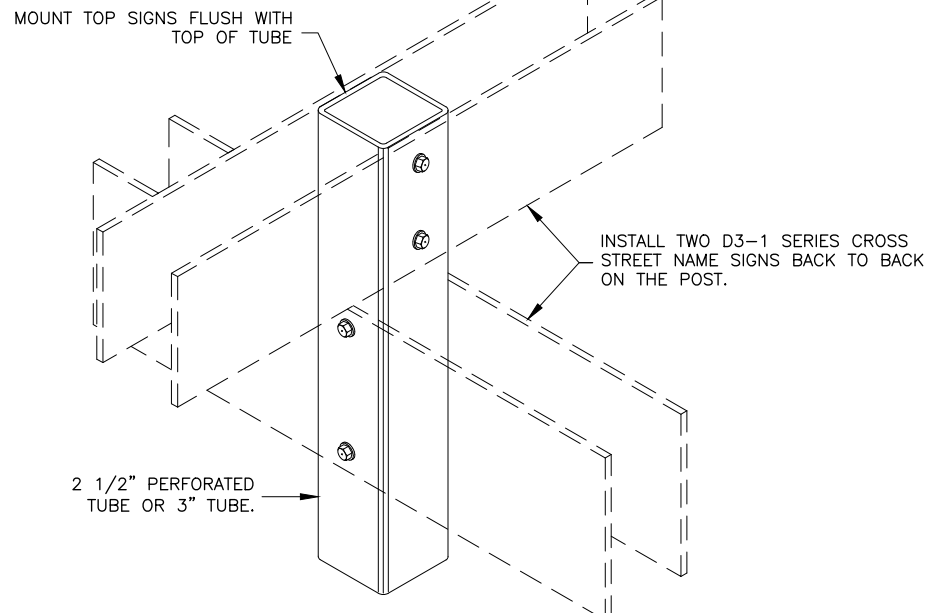
**MAIN STREET
 SIDEWALK IMPROVEMENTS**

TRAFFIC LEGEND AND NOTES

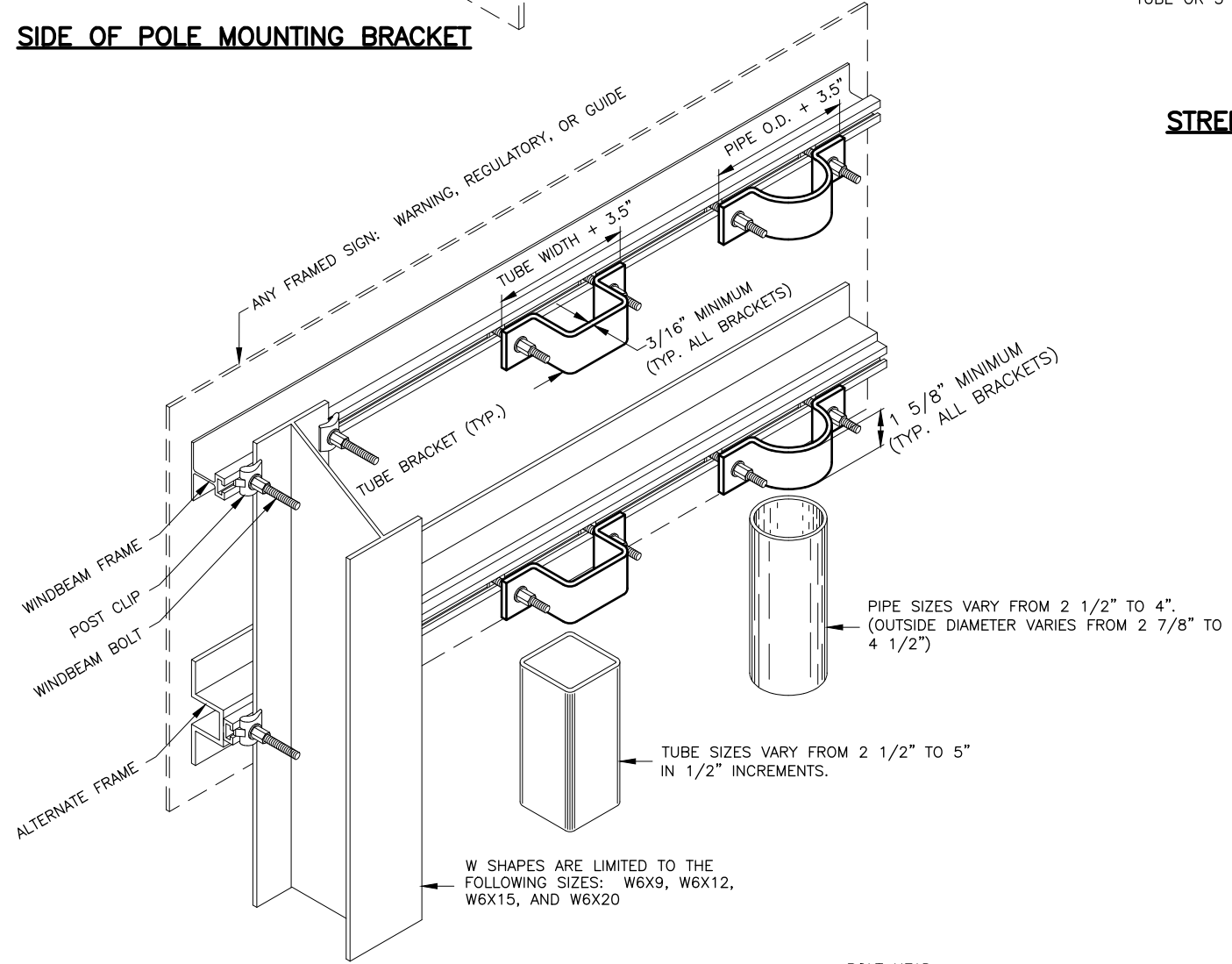


SIDE OF POLE MOUNTING BRACKET

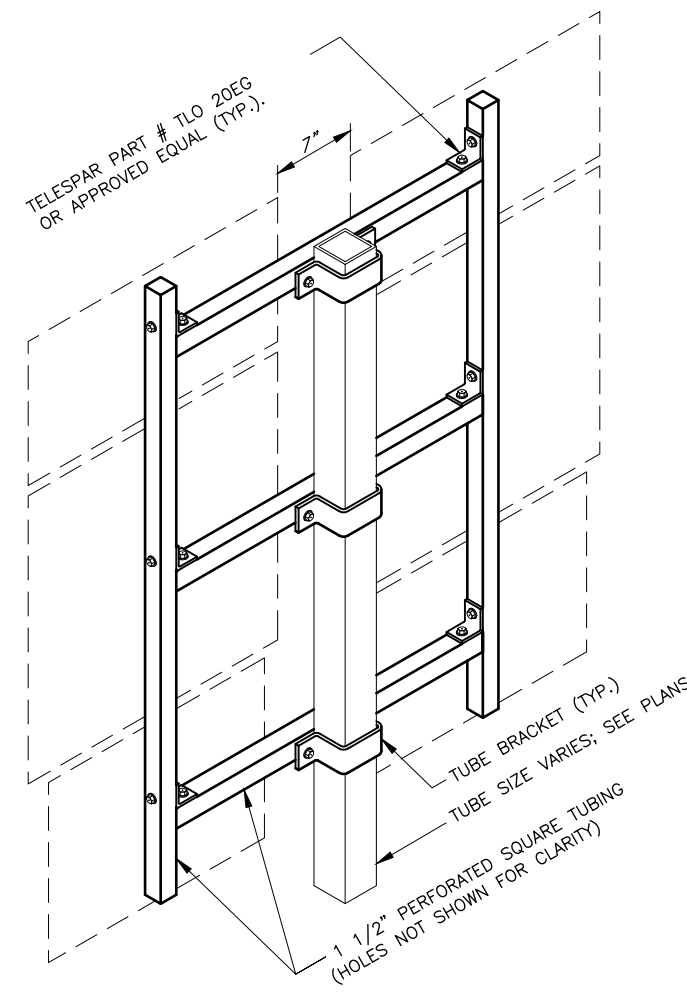
SADDLE BRACKETS



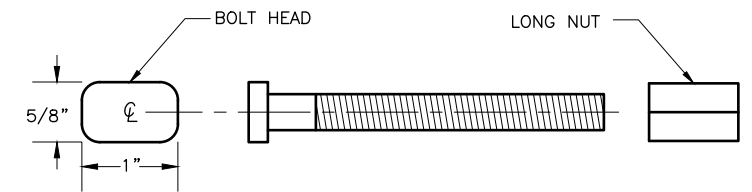
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



ROUTE MARKER TREE

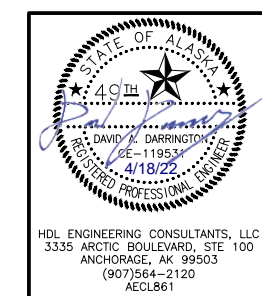


3/8" WINDBEAM BOLT AND LONG NUT

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
- ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8-IN BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16-IN BOLTS.
- BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
- ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4-IN WIDE BY 0.020-IN THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
- THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2-IN SMALLER IN SIZE.
- ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
- ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO THE STANDARD PLANS.
- FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- INSTALL THE TOP EDGE OF SIGNS 1-IN ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- INSTALL THE TOP EDGE OF SIGNS 3-IN BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	REGULAR LOCK	ASTM A 563 ASTM F 594
WASHERS	ASTM A 36	ASTM A 480
POST CLIPS		



CITY OF HOMER
PUBLIC WORKS DEPARTMENT

**MAIN STREET
SIDEWALK IMPROVEMENTS**

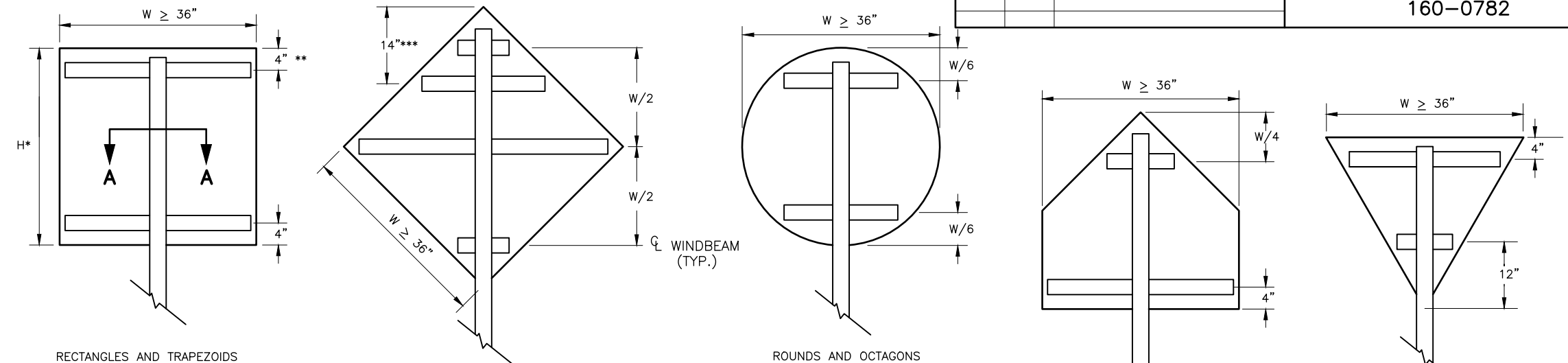
SIGN ATTACHMENT DETAIL

HDL ENGINEERING CONSULTANTS, LLC
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907)564-2120
AECL861

H:\JOBS\17-014_HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE 1) SIDEWALK
 DESIGN\CAD\DRAWINGS\17014_02_H02-H03.DWG
 DESIGNED BY: [Redacted]
 CHECKED BY: [Redacted]
 DRAFTED BY: [Redacted]
 SCALE: [Redacted]
 DATE: 3/31/2022 4:37 PM
 TIME: [Redacted]

DESIGNED BY: [] CHECKED BY: [] DRAFTED BY: []
 SCALE: [] TIME: 4:37 PM DATE: 3/31/2022
 H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_H02-H03.DWG

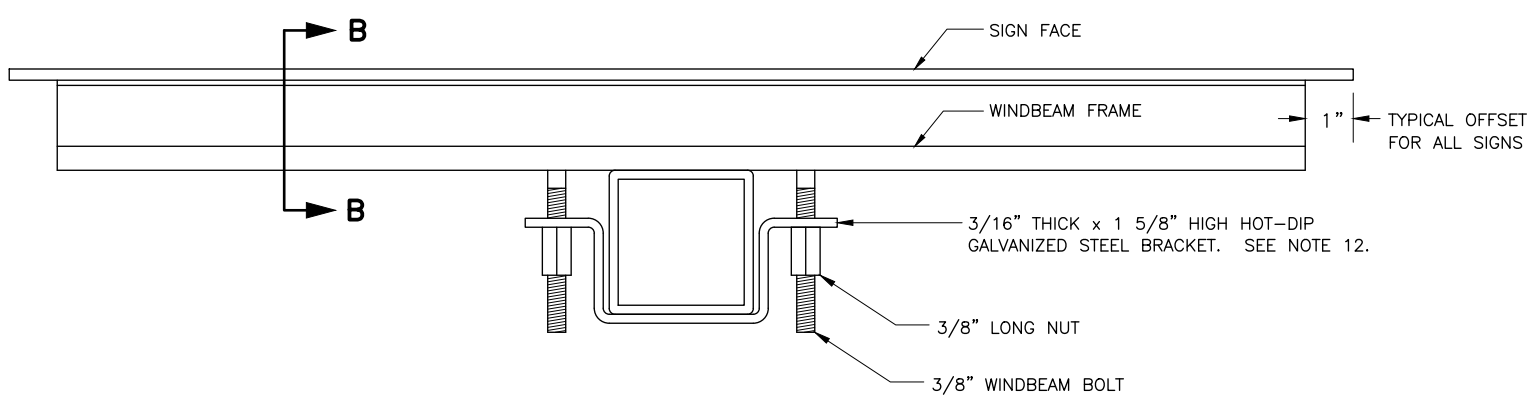
NO.	DATE	REVISION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			160-0782	2022	H3	H4



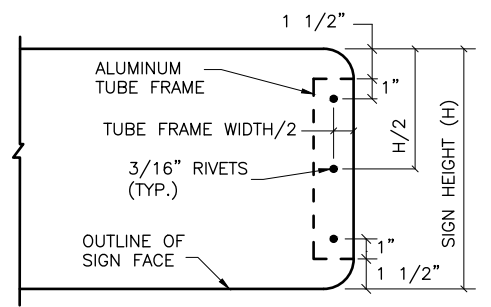
RECTANGLES AND TRAPEZOIDS
 * WHEN H > 42-IN, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
 ** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10-IN OFFSET. OTHERWISE, USE 4-IN.

*** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14-IN OFFSET. OTHERWISE, USE W/2.

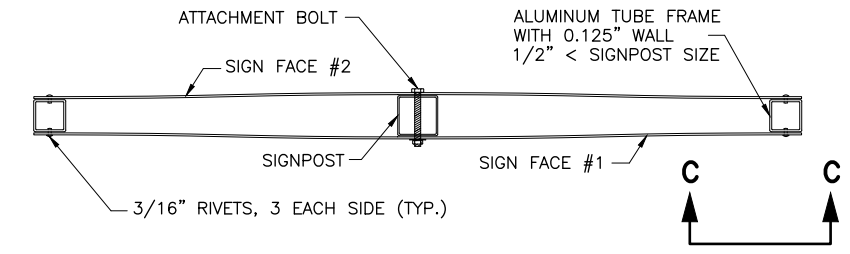
WINDBEAM LOCATIONS FOR EACH SIGN SHAPE
 ELEVATION VIEW



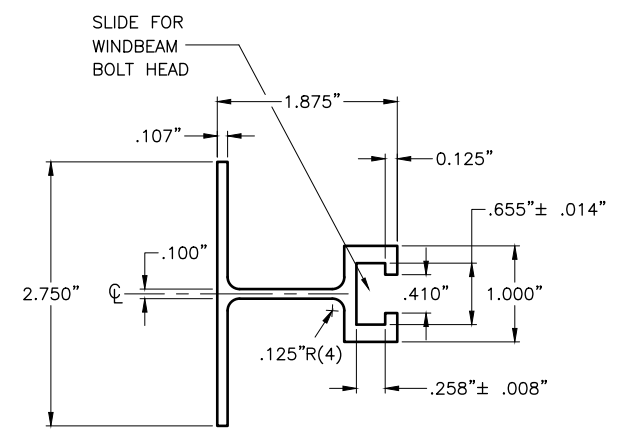
SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM



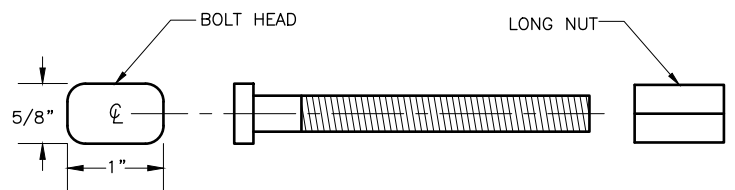
VIEW C - C



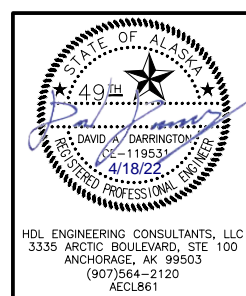
D3-1 STREET NAME SIGN FRAMING DETAIL
 PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 LIGHT SIGN FRAMING AND
 ATTACHMENT DETAIL

HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

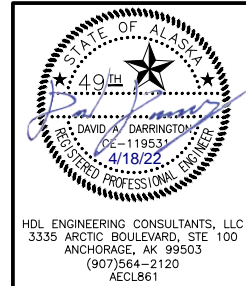
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707 - STANDARD SIGNS													
SHEET NO.	POST NO.	STATION	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA SQ FT	SIGN FACES	POSTS NO., SIZE, & TYPE	THICKNESS (IN)		REMARKS
						WIDTH	HEIGHT				YES	NO	
F4	1	24+95.50	LT	R1-1		30	30	6.25	W	2.5" PT		0.125	
				D3-101		30	8	3.33	N/S				TWO SIGNS BACK TO BACK
				D3-101		48	8	5.33	E/W				TWO SIGNS BACK TO BACK
F4	2	28+78.50	LT	R1-1		30	30	6.25	W	2.5" PT		0.125	
				D3-101		30	8	3.33	N/S				TWO SIGNS BACK TO BACK
				D3-101		48	8	5.33	E/W				TWO SIGNS BACK TO BACK
F5	3	32+59.00	LT	R1-1		30	30	6.25	W	2.5" PT		0.125	
				D3-101		30	8	3.33	N/S				TWO SIGNS BACK TO BACK
				D3-101		48	8	5.33	E/W				TWO SIGNS BACK TO BACK
F6	4	34+82.00	LT	R2-1		30	36	7.50	N/S	2.5" PT		0.125	
F6	5	36+37.50	LT	R1-1		30	30	6.25	W	2.5" PT		0.125	
				D3-101		30	8	3.33	N/S				TWO SIGNS BACK TO BACK
				D3-101		48	8	5.33	E/W				TWO SIGNS BACK TO BACK
F6	6	38+40.00	LT	R1-1		30	30	6.25	NE	2.5" PT		0.125	ADDITIVE ALTERNATE
				D3-101		36	8	4.00	SE/NW				TWO SIGNS BACK TO BACK; ADDITIVE ALTERNATE
				D3-101		36	8	4.00	SW/NE				TWO SIGNS BACK TO BACK; ADDITIVE ALTERNATE

707 - SALVAGE SIGN					
SHEET	STATION	OFFSET	TYPE	REMARKS	
F4	24+92.00	LT	D3-101	W FAIRVIEW AVE	
			R2-2	STOP	
	28+75.00	LT	D3-101	W DANVIEW AVE	
			R2-2	STOP	
F5	32+51.00	LT	D3-101	W CITYVIEW AVE	
			R2-2	STOP	
F6	34+82.00	LT	R2-1	25 MPH	
	36+38.00	LT	D3-101	W BAYVIEW AVE	
			R2-2	STOP	
	38+40.00	LT	D3-101	DEHEL AVE; ADDITIVE ALTERNATE	
			R2-2	STOP; ADDITIVE ALTERNATE	

GENERAL SIGNING NOTES

- SIGN MOUNTING HEIGHT IS A MINIMUM OF 7-FT AS SHOWN ON STANDARD DRAWING S-05.01.
- SIGN SIZES SHALL FOLLOW MANUAL ON UNIFORM TRAFFIC DEVICES REQUIREMENTS UNLESS SPECIFICALLY MODIFIED IN THE ALASKA TRAFFIC MANUAL.
- ALL PT POSTS SHALL BE INSTALLED WITH CONCRETE FOUNDATIONS.



CITY OF HOMER
 PUBLIC WORKS DEPARTMENT
**MAIN STREET
 SIDEWALK IMPROVEMENTS**
 SIGN SUMMARY AND SALVAGE

HDL ENGINEERING CONSULTANTS, LLC
 3335 ARCTIC BOULEVARD, STE 100
 ANCHORAGE, AK 99503
 (907)564-2120
 AECL861

H:\JOBS\17-014 HOMER ROADS, DRAINAGE, AND TRAILS TERM (HOMER)\TASK 2 - MAIN STREET (PHASE I) SIDEWALK DESIGN\CAD\DRAWINGS\17014_02_D01-D04.DWG
 DATE 4/21/2022 8:58 AM
 SCALE
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 DAD
 NMO
 WP

NO.	DATE	REVISION
2	4/21/22	REVISED INLET INVERTS

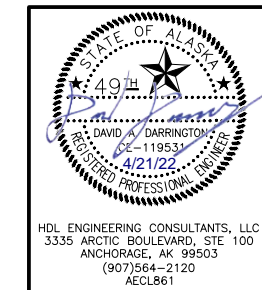
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
160-0782	2022	D4	D4

802 ITEMS - PIPE SUMMARY

SHEET	INLET			OUTLET			SIZE (IN)	LENGTH (LF)	END SECTION	REMARKS
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.				
P1-1	10+96.00	17.8 LT	155.88	10+91.21	CL	155.59	12	18.4		
P1-2	12+92.00	13.3 LT	169.91	12+69.41	1.8 LT	165.42	12	23.4		
P2-1	18+44.00	13.9 LT	201.38	18+68.63	1.5 LT	200.91	12	27.6		
P3-1	22+93.00	13.9 LT	231.93	22+69.42	2.0 RT	229.61	12	28.4		
P4-1	25+40.68	60.39 LT	249.50	25+32.84	25.7 LT	245.40	24	35.6	1	
P4-2	25+32.84	25.67 LT	246.22	25+41.45	CL	245.07	24	27.0		
P4-3	28+73.00	31.00 LT	270.24	28+98.91	25.6 LT	269.50	18	39.1	1	
P4-4	29+13.56	25.6 LT	273.30	28+98.91	1.7 LT	270.00	18	28.0		
P4-5	29+21.90	30.7 LT	273.30	29+13.56	25.6 LT	272.00	18	9.8	1	
P5-1	30+90.00	25 LT	276.99	30+90.00	CL	276.57	12	24.9		
P5-2	32+88.75	34.5 LT	287.58	32+79.25	1.4 LT	287.25	18	37.1		
P5-3	32+96.02	52.5 LT	291.03	32+88.75	34.5 LT	287.70	18	19.5	1	
P5-4	34+12.00	24.0 LT	293.83	34+12.00	5.3 RT	293.70	12	29.3		
P6-1	36+69.65	26.9 LT	315.97	36+84.62	11.6 RT	315.60	18	41.4		ADDITIVE ALTERNATE
P6-2	36+79.19	32.6 LT	318.39	36+69.65	26.9 LT	316.05	18	12.1	1	ADDITIVE ALTERNATE
P6-3	37+88.00	23.0 LT	318.99	36+84.62	11.6 RT	315.25	24	110.5		ADDITIVE ALTERNATE
P6-4	37+90.00	55.0 LT	321.40	37+88.00	23.0 LT	320.00	24	32.1		ADDITIVE ALTERNATE
P6-5	38+34.00	24.0 LT	321.82	37+88.00	23.0 LT	319.50	24	50.4		ADDITIVE ALTERNATE
P6-6	38+27.44	103.1 LT	340.78	38+34.00	24.0 LT	322.32	18	79.5		ADDITIVE ALTERNATE
P6-7	38+83.44	19.1 LT	330.71	38+34.00	24.0 LT	322.82	24	54.0		ADDITIVE ALTERNATE
							12-INCH TOTAL:	152.0		
							18-INCH TOTAL:	266.5		
							24-INCH TOTAL:	309.5		
							18-INCH END SECTION TOTAL:	4		
							24-INCH END SECTION TOTAL:	1		

804 - STORM DRAIN MANHOLE

SHEET	STATION	OFFSET	REMARKS
F5	30+90.00	25.00 LT	S5-1; FIELD INLET
	30+90.00	CL	S5-2
	34+12.00	24.00 LT	S5-4; FIELD INLET
	34+12.00	CL	S5-5
	37+88.00	23.00 LT	S6-2, ADDITIVE ALTERNATE
	37+90.00	55.00 LT	S6-3; FIELD INLET, ADDITIVE ALTERNATE
	38+34.00	24.00 LT	S6-4, ADDITIVE ALTERNATE
TOTAL:		7	

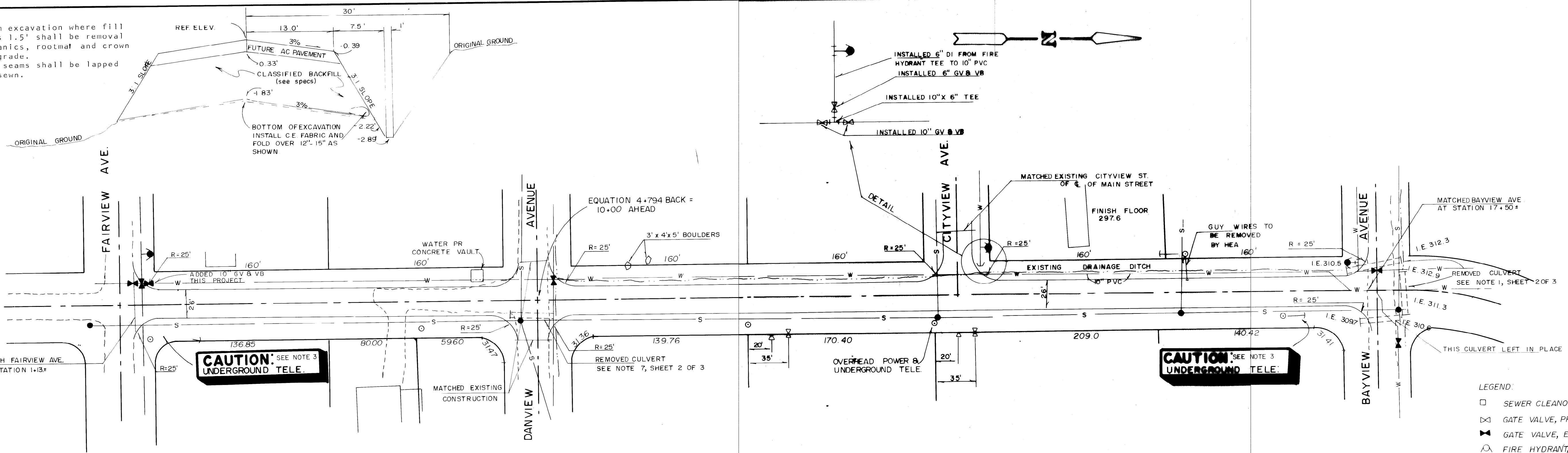


CITY OF HOMER
PUBLIC WORKS DEPARTMENT
**MAIN STREET
SIDEWALK IMPROVEMENTS**

SUMMARY TABLES

HDL ENGINEERING CONSULTANTS, LLC
3335 ARCTIC BOULEVARD, STE 100
ANCHORAGE, AK 99503
(907)564-2120
AECL861

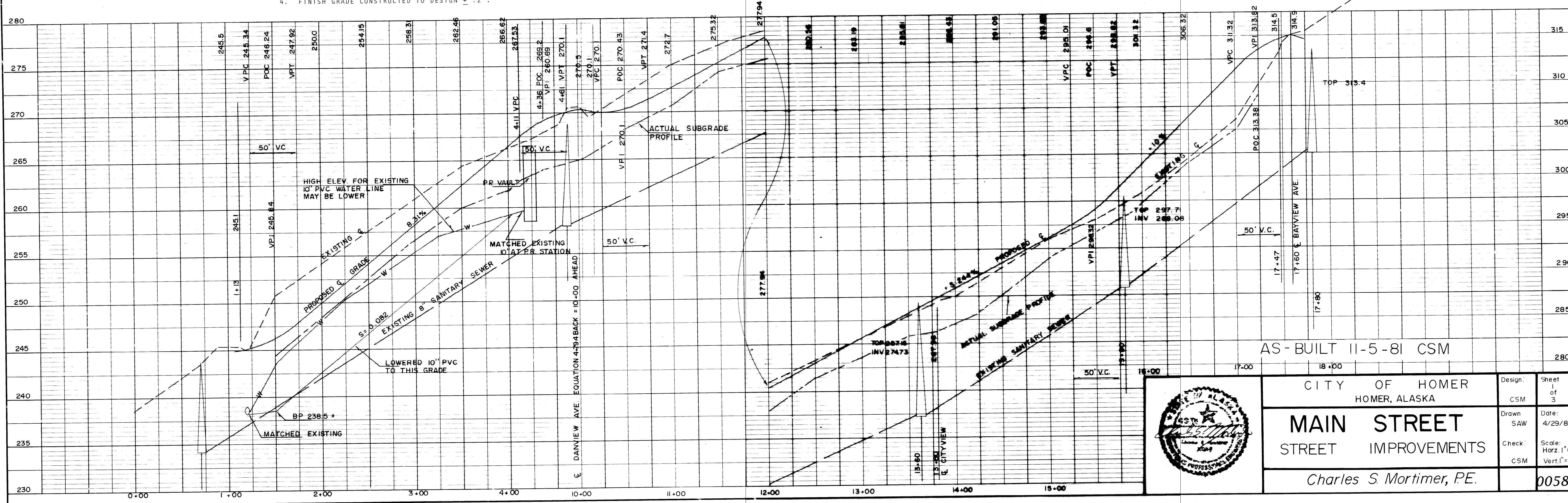
- NOTES:
1. Minimum excavation where fill exceeds 1.5' shall be removal of organics, rootmat and crown of subgrade.
 2. Fabric seams shall be lapped 3' or sewn.



- NOTES:
1. CONSTRUCTED STORM SEWER SHOWN ON SHEETS 2 & 3 IS NOT SHOWN ON THIS SHEET FOR CLARITY.
 2. ADJUSTMENT OF EXISTING VALVE BOXES SHALL BE INCIDENTAL TO STREET CONSTRUCTION.
 3. BURIED TELEPHONE FROM POLE AT STA 1+27 TO POLE AT STA 16+75 WAS RE-BURIED APPROXIMATELY 18' BELOW SUBGRADE 16' TO 18' EAST OF CENTERLINE.
 4. FINISH GRADE CONSTRUCTED TO DESIGN + .2'.

- LEGEND
- SEWER CLEANOUT
 - ⊗ GATE VALVE, PROPOSED
 - ⊗ GATE VALVE, EXISTING
 - ⊗ FIRE HYDRANT, PROPOSED
 - ⊗ FIRE HYDRANT, EXISTING
 - MANHOLE, PROPOSED
 - ⊗ WATER SERVICE, PROPOSED
 - △ SEWER SERVICE, PROPOSED
 - MANHOLE, EXISTING

MAIN STREET



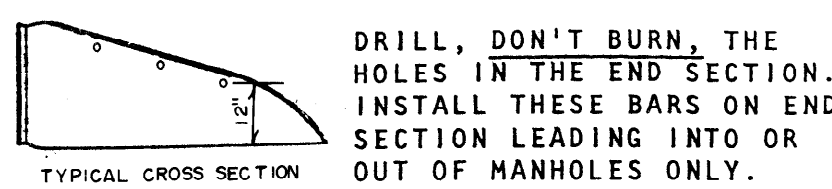
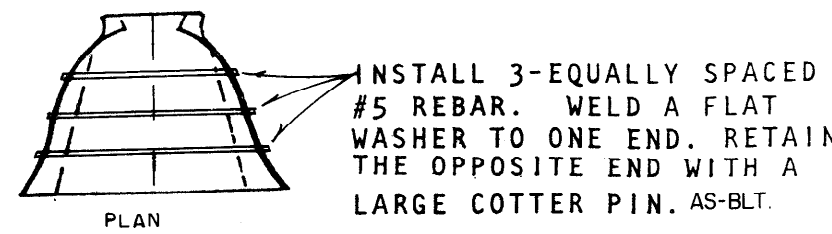
CITY OF HOMER HOMER, ALASKA		Design: CSM	Sheet 1 of 3
MAIN STREET STREET IMPROVEMENTS		Drawn: SAW	Date: 4/29/81
Charles S. Mortimer, P.E.		Check: CSM	Scale: Horz 1"=50' Vert 1"=5'
			00580

PLAN

DATE	
BY	
CHECKED	
APPROVED	
NOTE BOOK	
NO.	

PROFILE

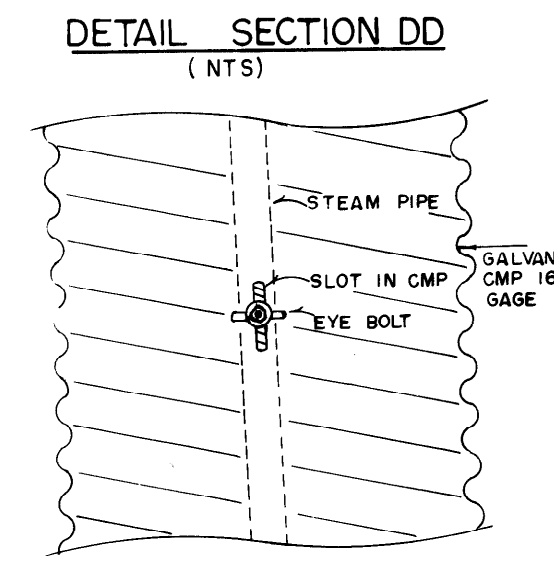
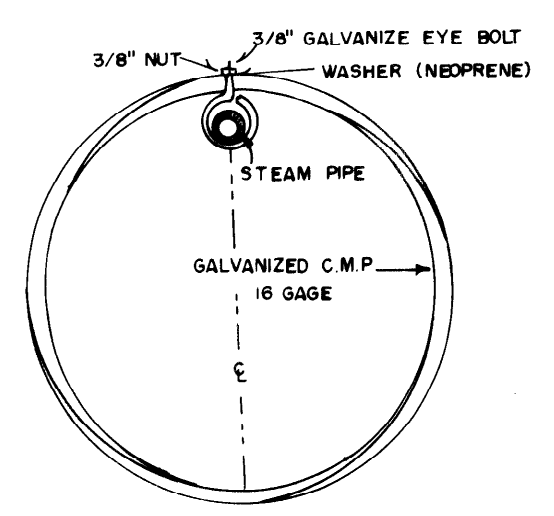
DATE	
BY	
CHECKED	
APPROVED	
NOTE BOOK	
NO.	



NOTES:

- ALL EXPOSED CMP ENDS SHALL HAVE A STANDARD END SECTION WITH A TOE PLATE EXTENSION INSTALLED UNLESS OTHERWISE NOTED.
- ALL CMP SHALL BE 16 GAGE.
- VERTICAL CONTROL IS USCGCS TBM #1; ESE TOP FLANGE BOLT ON FIRE HYDRANT. VICINITY NW CORNER, MAIN STREET AND FAIRVIEW AVENUE. ELEV. 248.67
TBM #2; SPIKE IN 18" SPRUCE, 35'+ LEFT CENTERLINE STA 4+30. ELEV. 270.15.
TBM #3; NE TOP FLANGE BOLT ON FIRE HYDRANT. VICINITY NW CORNER DANVIEW AVENUE AND GAVIN COURT. ELEV. 277.78
- 1" GALVANIZED STEAM THAW PIPES SHALL BE INSTALLED, a) FROM STA 1+25 TO 2+00, b) FROM STA 4+10 TO 4+81, c) IN THE 90'-36" CMP OUTFALL FROM MH AT 1+25, d) STA 10+02 TO 10+77, e) STA 13+07 TO 13+82, f) 13+82 TO 14+57, and g) STA 17+12 TO 17+87.
- MANHOLES SHALL HAVE AN 18" MINIMUM CATCH FROM THE PIPE INVERT TO THE MH BOTTOM.
- MANHOLES SHALL BE INSTALLED WITH A REDUCING SLAB PER STANDARD DETAIL FIGURE 211 OF 212, ONE 6" THICK GRADE RING AND THE MANHOLE FRAME AND COVER PER STANDARD DETAIL FIGURES 214 & 215.
- SALVAGE THESE CULVERTS AND DELIVER TO THE CITY PUBLIC WORKS YARD.
- THE CONTRACTOR WILL BE REQUIRED TO EXPOSE THE WATER MAIN IN THE VICINITY OF STA 1+20, 10+25 AND 17+62 MAIN STREET TO DETERMINE THAT THE DEPTH IS AS NOTED.

END SECTION DETAIL (NTS)

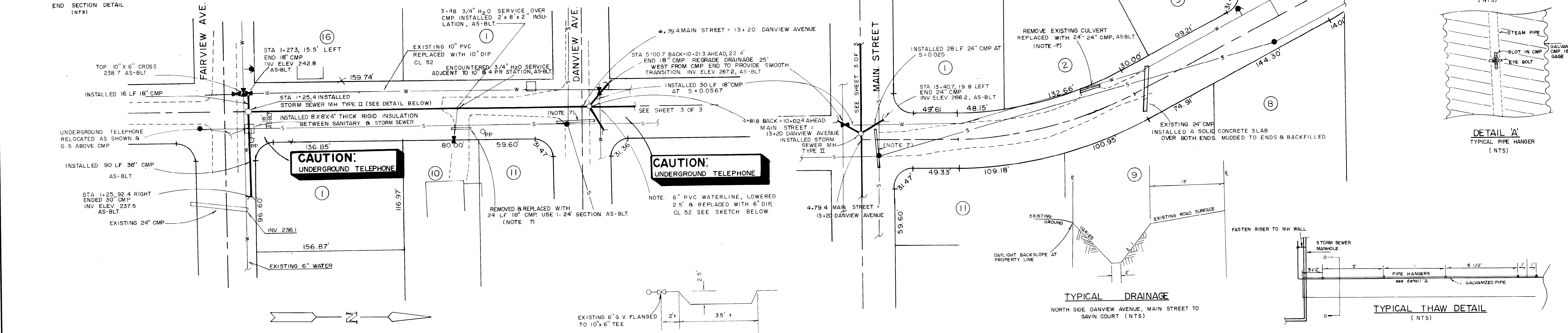


DATE	
BY	
NO.	

PLAN

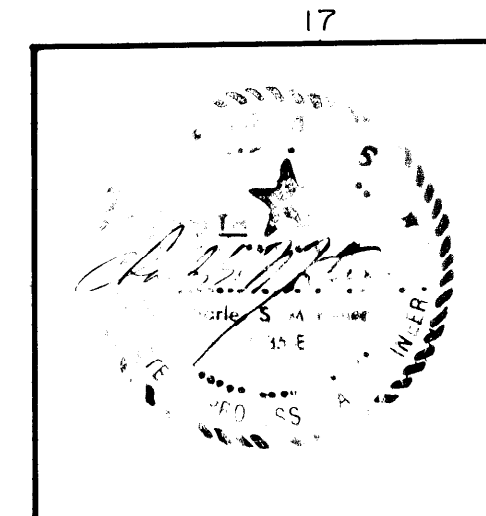
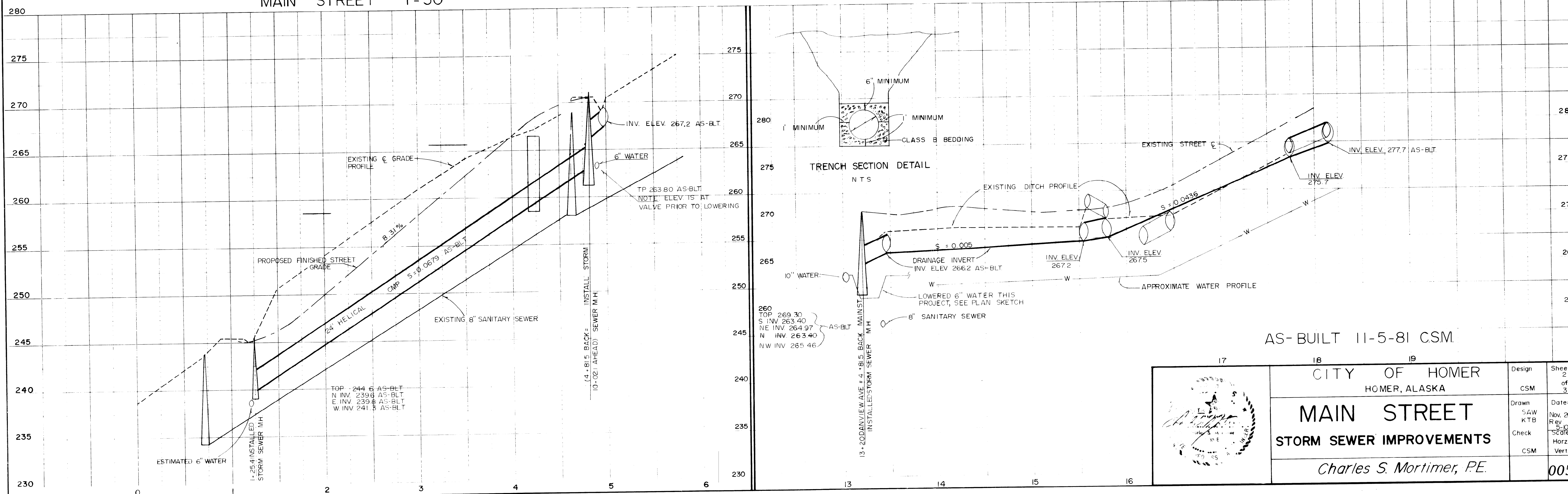
DATE	
BY	
NO.	

PROFILE



MAIN STREET 1" = 50'

DANVIEW AVENUE 1" = 50'



CITY OF HOMER
HOMER, ALASKA

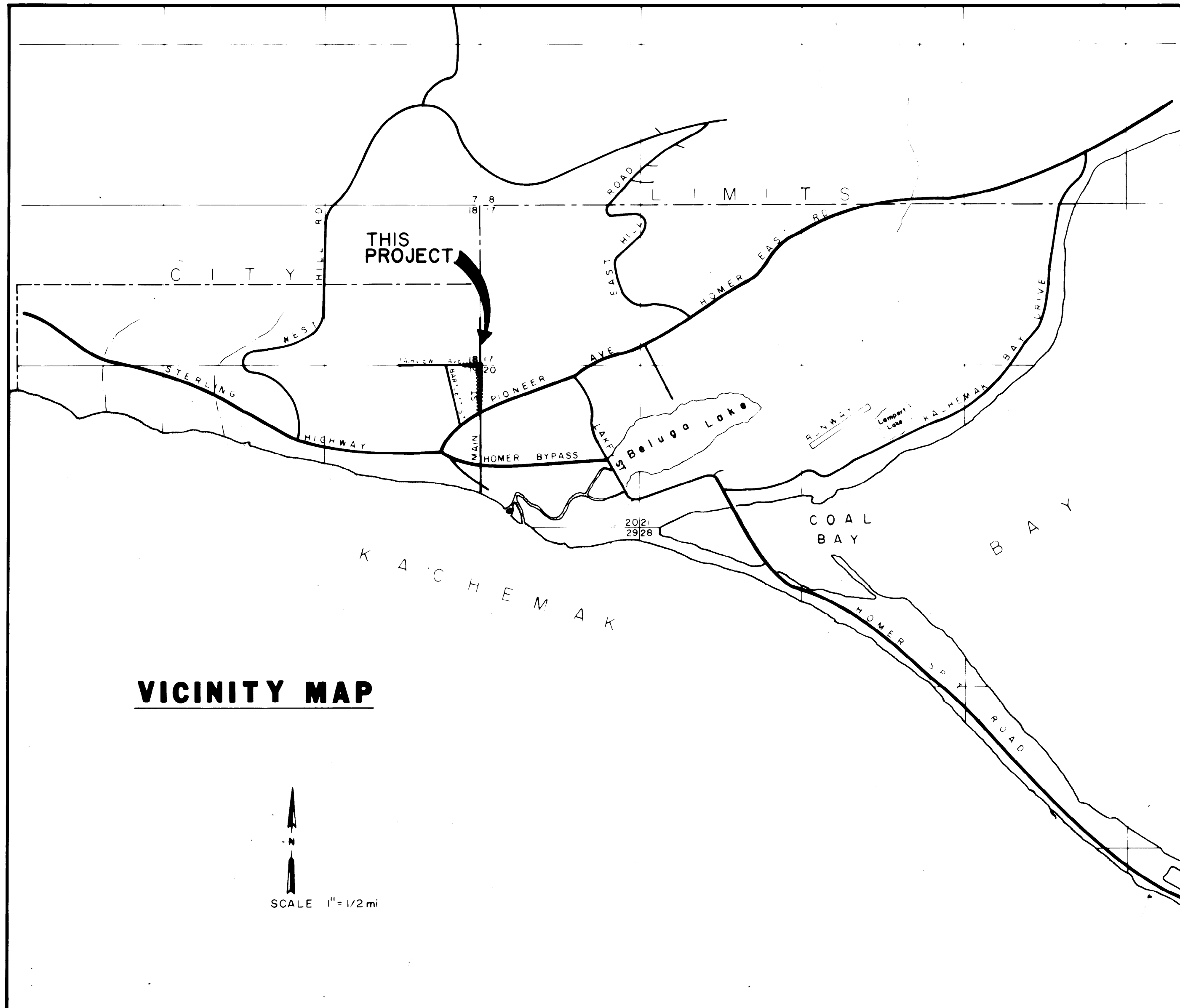
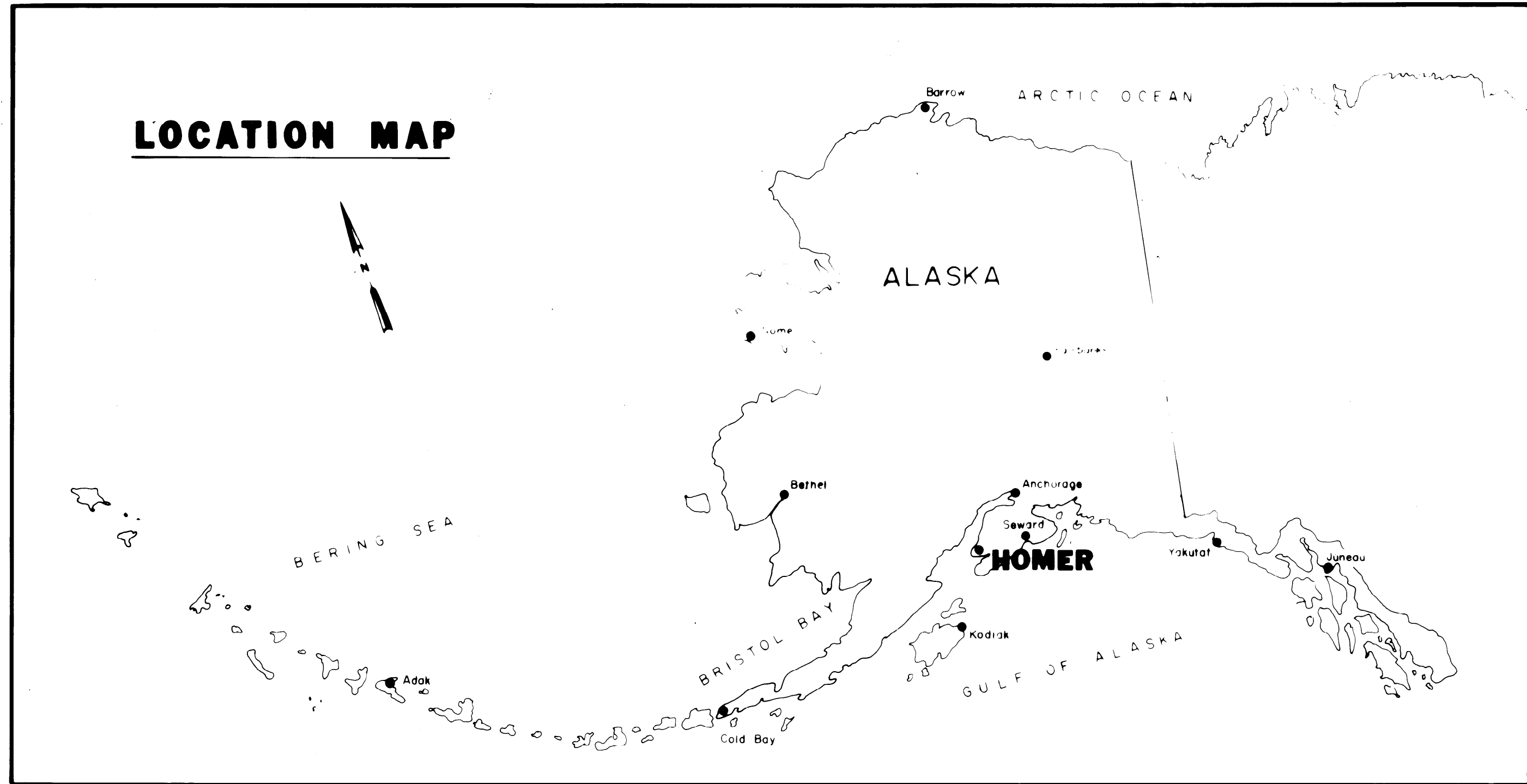
**MAIN STREET
STORM SEWER IMPROVEMENTS**

Charles S. Mortimer, P.E.

Design	Sheet 2 of 3
Drawn	Date: Nov. 20, 1980
Check	Rev: 0-81
Scale:	Horz 1" = 50'
Vert 1" = 5'	00581

IMPROVEMENT PLANS FOR THE CITY OF HOMER, ALASKA

BY
CH2M  HILL



FAIRVIEW AVENUE / MAIN STREET ROAD & UTILITY IMPROVEMENTS

PROJECT NO. K 14290.K1

APRIL, 1982

RECORD DRAWINGS

Revisions Drawn by *C. Nielsen* Date *Aug, 1983*

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

INDEX TO DRAWINGS

DESCRIPTION	SH NO
ABBREVIATIONS, LEGEND AND DETAILS	2
STORM SEWER DETAILS	3
FAIRVIEW AVE. PLAN AND PROFILE	4-5
MAIN ST. PLAN AND PROFILE	6-8

GENERAL CONSTRUCTION NOTES

- HORIZONTAL CONTROL COORDINATE SYSTEM BASED ON RP#20 COORDINATES FURNISHED BY ABILITY SURVEYS.
- VERTICAL DATUM IS USGS.
- SALVAGE ALL CULVERTS AND WATER MAIN REMOVED TO CITY OF HOMER DEPT OF PUBLIC WORKS.
- PROPOSED PAVEMENT PROFILE SHOWN IS FOR INFORMATION ONLY. THIS PROJECT INCLUDES CONSTRUCTION OF GRAVEL SURFACE TO PROFILE GRADES AND ELEVATIONS SHOWN.
- ALL WATER MAIN TO BE DUCTILE IRON INSTALLED WITH MIN 7' COVER.

ABBREVIATIONS

ABDN	ABANDON
@	AT
BOTT	BOTTOM
C	CUT
CB	CATCH BASIN
C.I.	CAST IRON
CL	CENTERLINE
CMP	CONDUITED METAL PIPE
CONC	CONCRETE
COR	CORNER
CULV	CULVERT
DIA	DIAMETER
D.I.	DUCTILE IRON
D/W	DRIVEWAY
E	EAST
ELEV	ELEVATION
EXST	EXISTING
F	FILL
FD	FOUND
FH	FIRE HYDRANT
FL	FLOW LINE
GND	GROUND
GR	GRADE
HORIZ	HORIZONTAL
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
INC	INCORPORATED
L.F.	LINEAL FEET
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PF GR	PROFILE GRADE
PROP	PROPERTY, PROPOSED
REQ'D	REQUIRED
RMV	REMOVE
R.O.W.	RIGHT-OF-WAY
R.P.	REFERENCE POINT
RT	RIGHT
S.SVC	SEWER SERVICE LATERAL
S	SOUTH
SH	SHEET
SPECS	SPECIFICATIONS
ST S	STORM SEWER
SUBD	SUBDIVISION
TBM	TEMPORARY BENCHMARK
TRANS	TRANSITION
TYP	TYPICAL
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENT
W.SVC	WATER SERVICE LATERAL
W	WEST
W/M	WATER MAIN

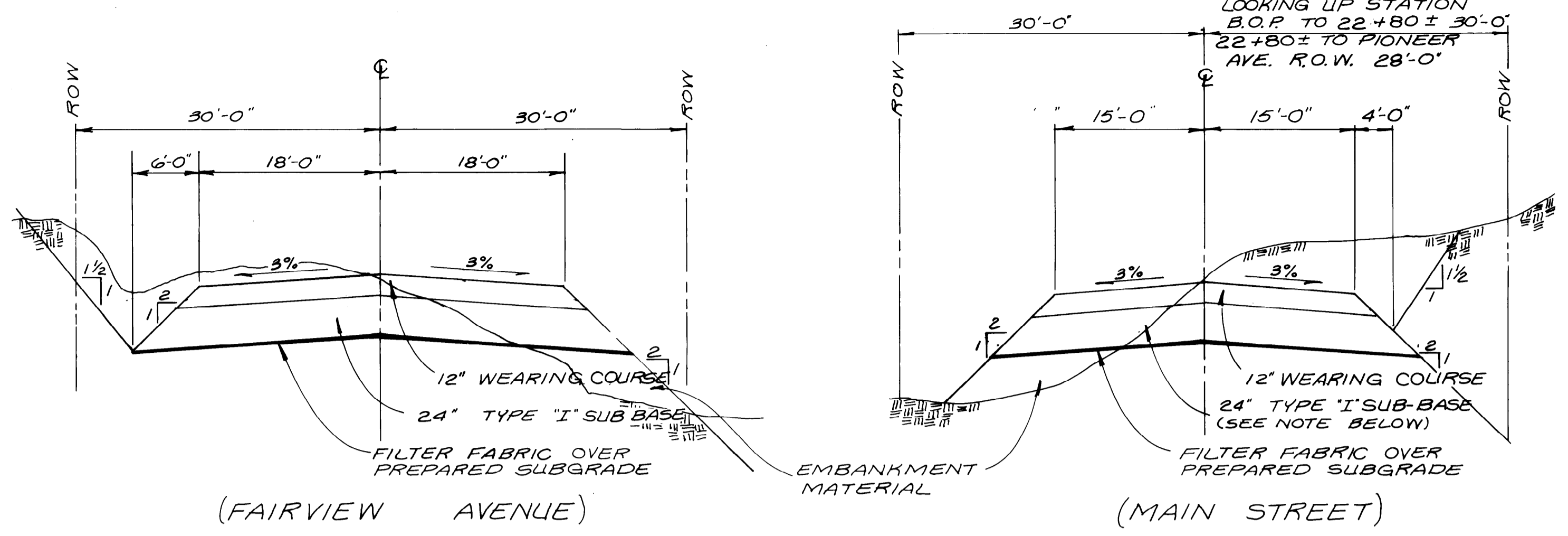
LEGEND

	CULVERT (EXST)
	PROPOSED CULVERT
	DITCH
	CREEK
	MANHOLE (EXST)
	PROPOSED MANHOLE
	SIGN (EXST)
	POWER POLE (EXST)
	TELEPHONE POLE (EXST)
	TELEPHONE PEDESTAL (EXST)
	POWER POLE W/GLY
	FIRE HYDRANT (EXST)
	TEMPORARY BENCHMARK
	PROPERTY CORNER (EXST)
	WATER VALVE, GATE VALVE (EXST)
	CURB STOP (EXST)
	REFERENCE POINT
	LIGHT FIXTURE MOUNTED ON POWER POLE
	PROPOSED WATER LINE STORM SEWER
	WATER LINE (EXST)
	SANITARY SEWER LINE (EXST)
	STORM SEWER (EXST)
	PROPERTY LINE RIGHT OF WAY
	SECTION LINE CENTER LINE
	SECTION CORNER
	FILL SLOPE CATCH POINT
	CUT SLOPE CATCH POINT
	VPT, VPC, VPI
	TREE
	BRUSH
	PROPOSED FUTURE PAVEMENT PROFILE
	PROPOSED SUBGRADE THIS PROJECT
	ROAD (EXST)
	PROPOSED GRAVEL SURFACE THIS PROJECT
	PROPOSED CATCH BASIN (ELEV SHOWN IS TOP OF GRATE)
	STORM DRAIN INLET (EXST)

RECORD DRAWINGS

Revisions Drawn by *C. H. Hopper* Date *Aug, 1983*

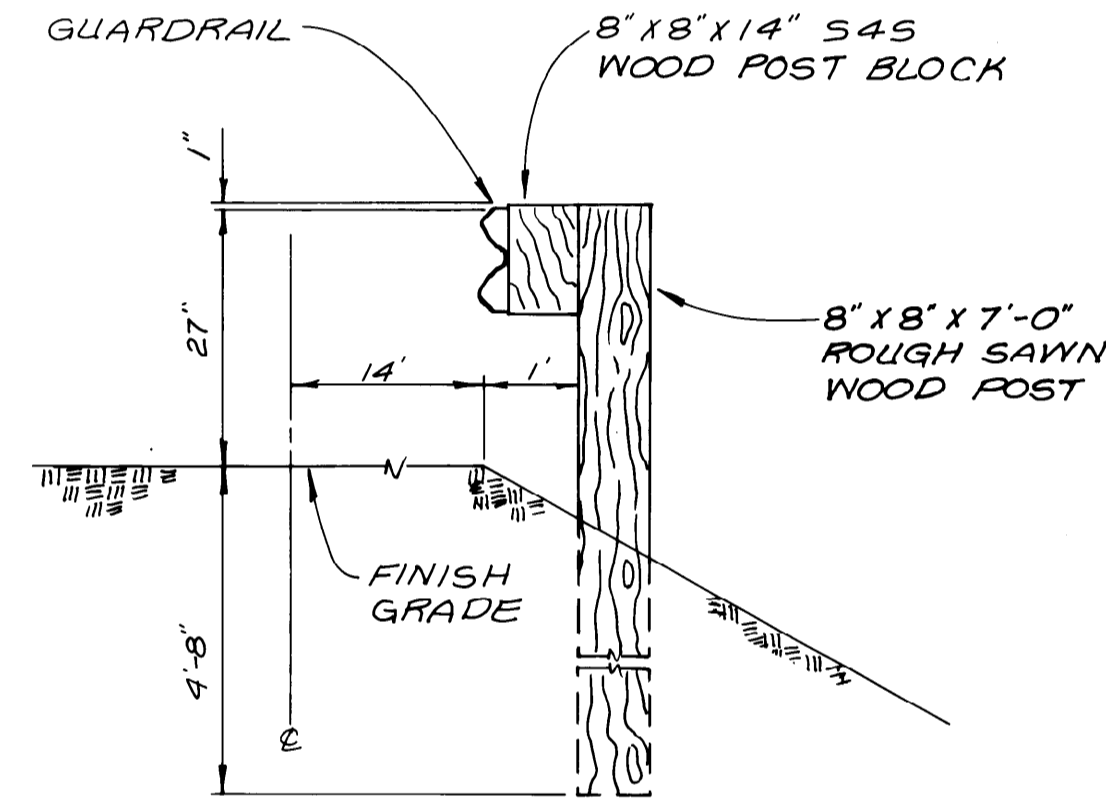
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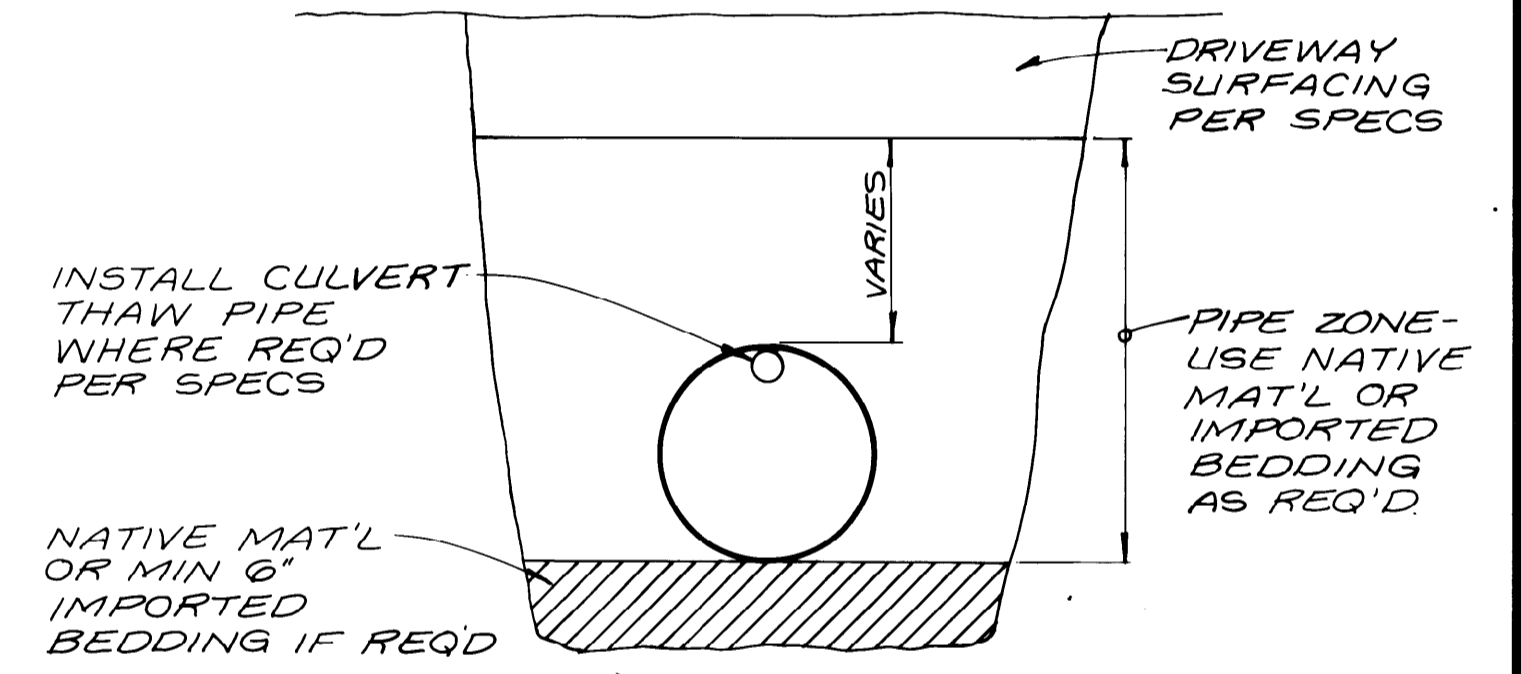
TYPICAL ROAD SECTION
NTS

TYPICAL ROAD SECTION
NTS

- NOTES:
- 30' OF TYPE "I" MAT'L REQ'D STA 23+50 TO 25+00.
 - NO FILTER FABRIC REQ'D STA 24+20 TO 25+00.

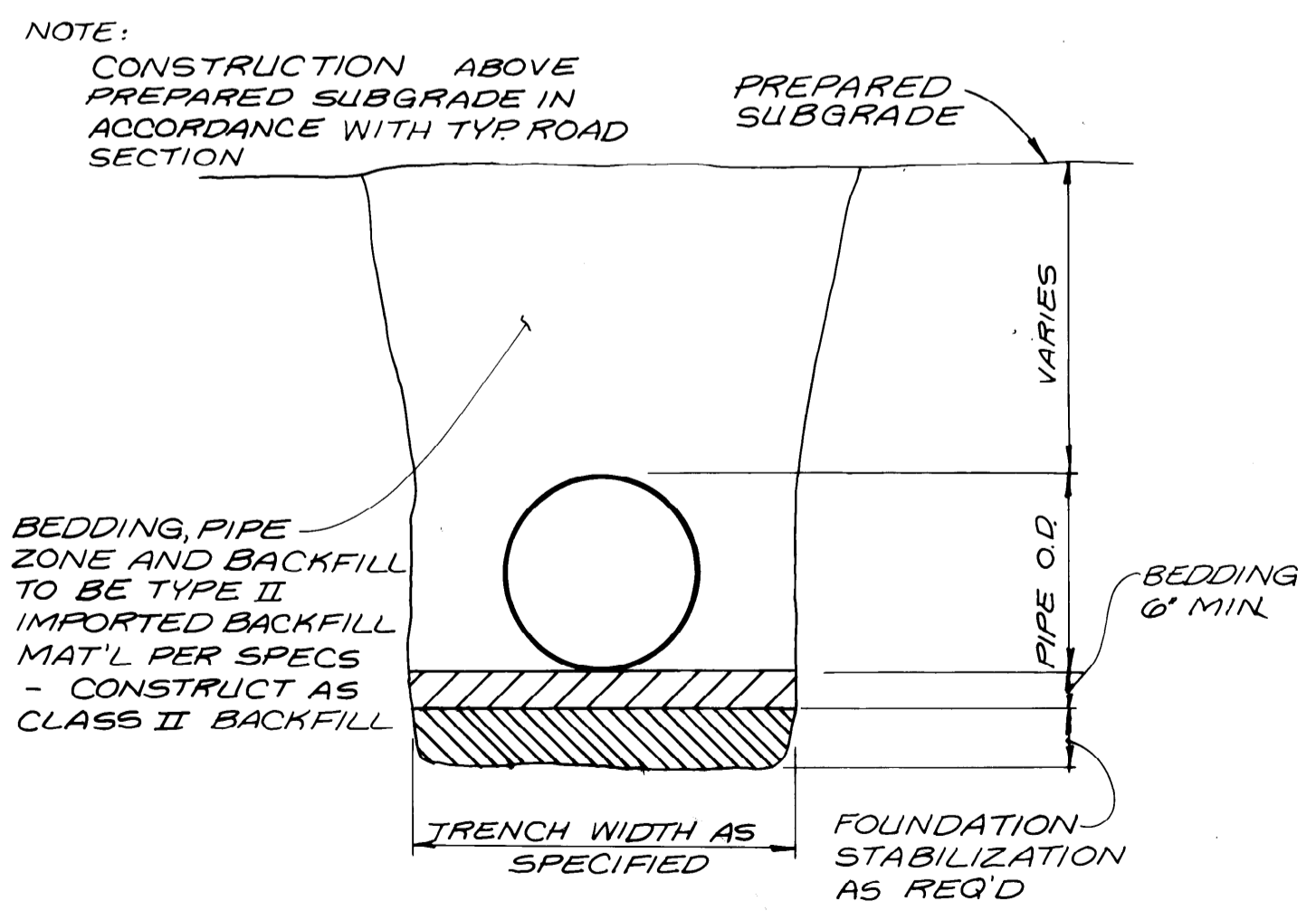


GUARDRAIL DETAIL
NTS

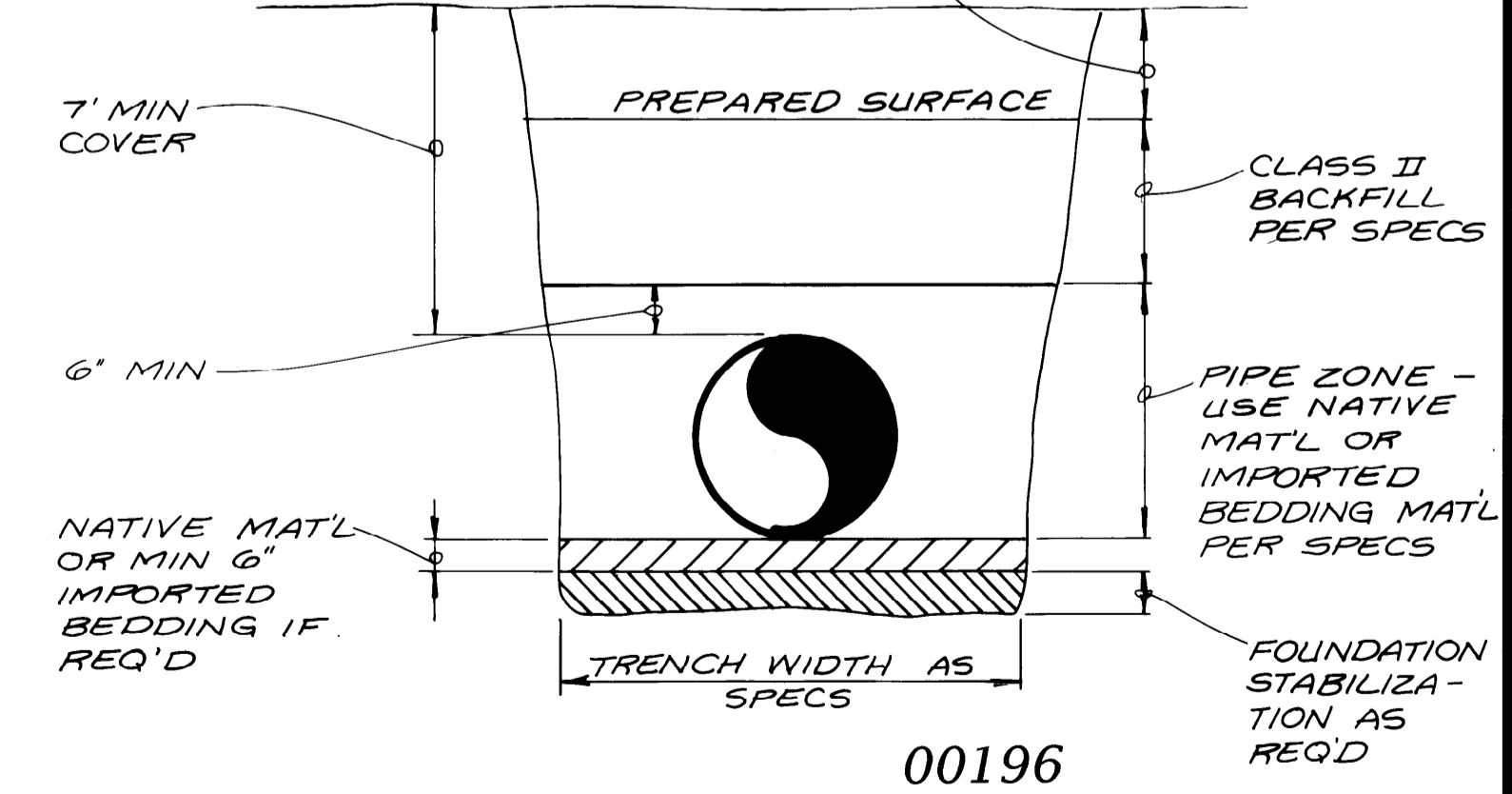


TYPICAL CULVERT DETAIL
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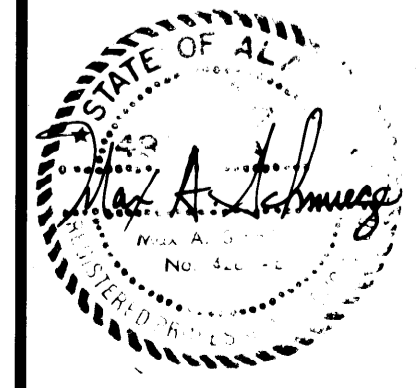
- NOTE:
- INSULATION WHERE REQ'D SHALL BE 2" THICK DOW H.I. OR EQUAL, PLACED 6" ABOVE OR BELOW W/M AS NECESSARY
- CONSTRUCTION ABOVE PREPARED SUBGRADE IN ACCORDANCE WITH TYP ROAD SECTION



TYP. STORM SEWER TRENCH
NTS



TYPICAL WATER MAIN TRENCH
NTS



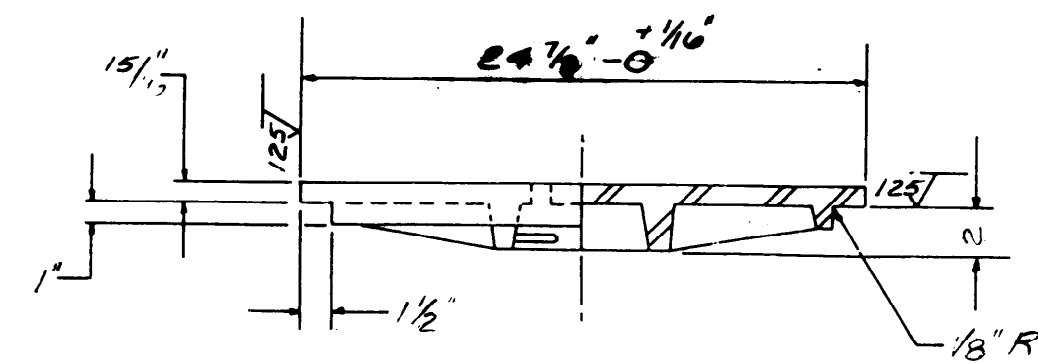
CH2M HILL	DSGN	KENT HOPPER			
	OR	CD FILER			
	CHK	M.A. SCHMEGE			
	APVD				
	NO.	DATE	REVISION	BY	APVD

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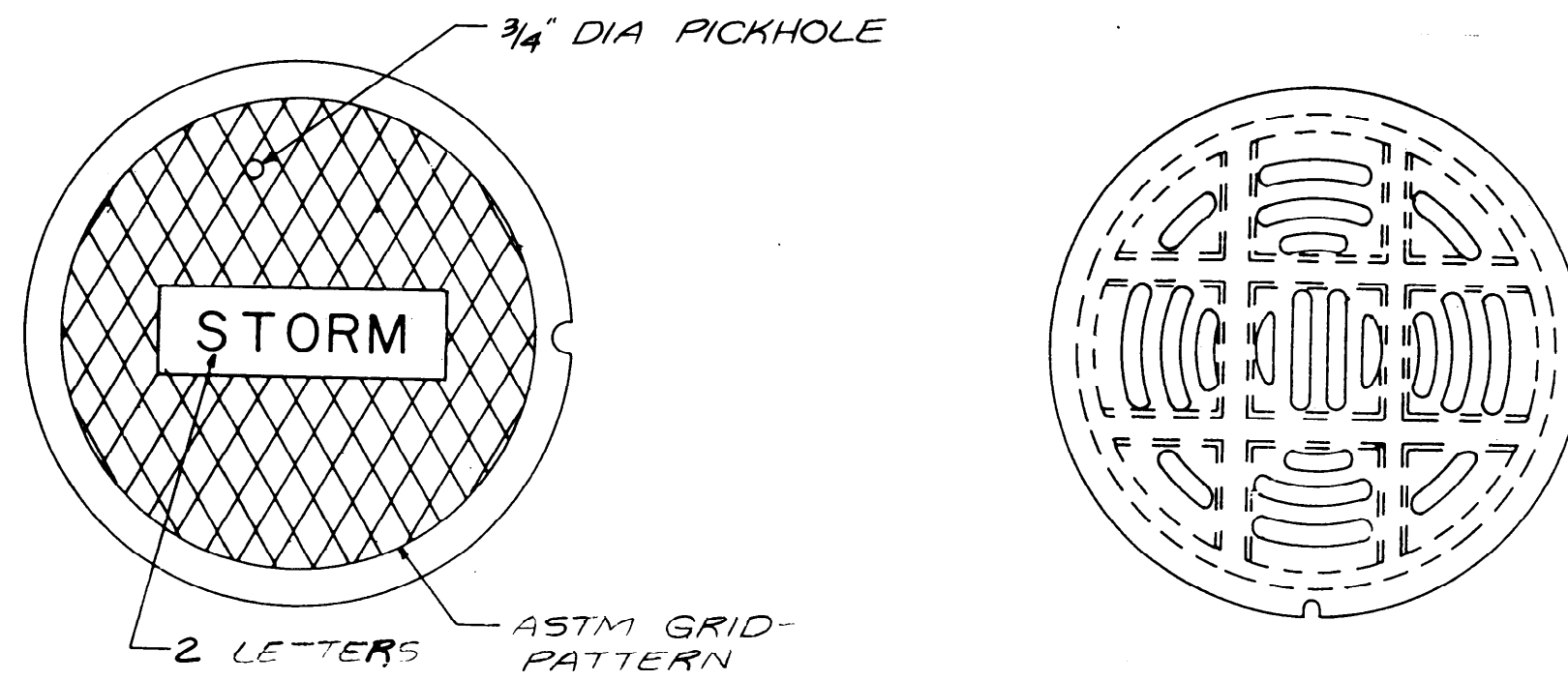
CITY OF HOMER
HOMER, ALASKA

ROAD AND UTILITY IMPROVEMENTS
HOMER, ALASKA
ABBREVIATIONS, LEGEND AND DETAILS

SHEET	2
DATE	APRIL 1982
PROJ NO.	K 14290.K1

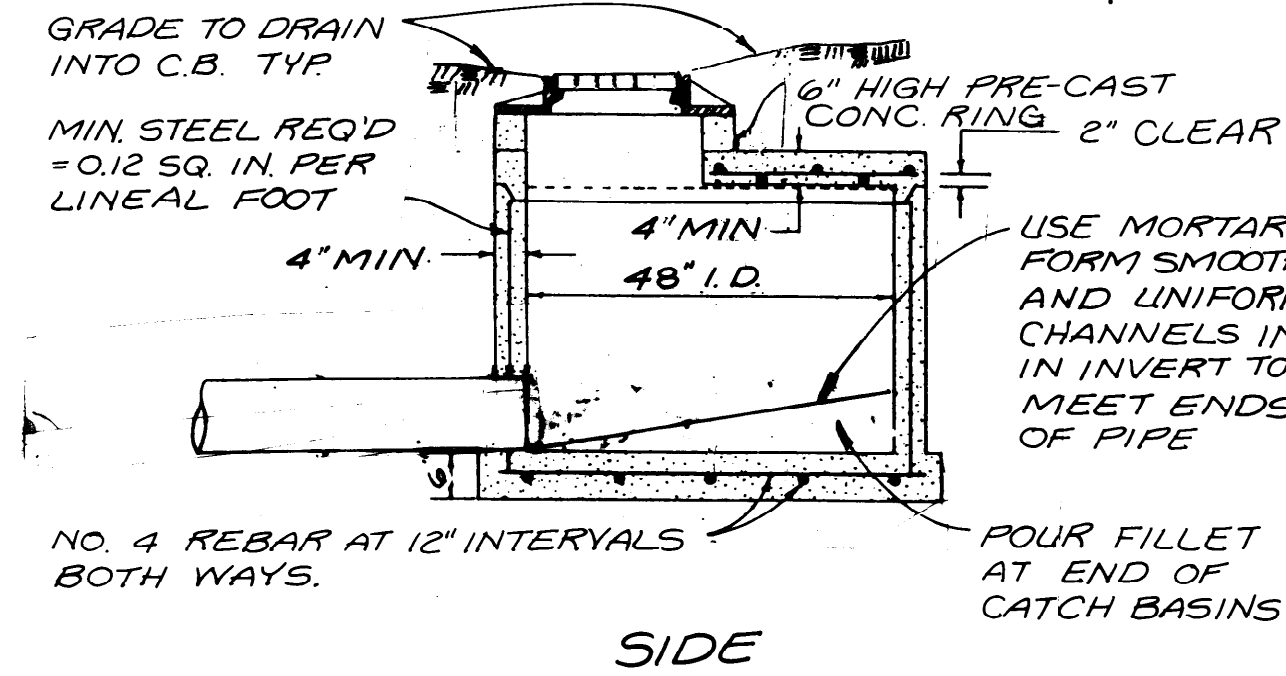


SECTION FOR M.H. COVER & C.B. GRATE
NTS

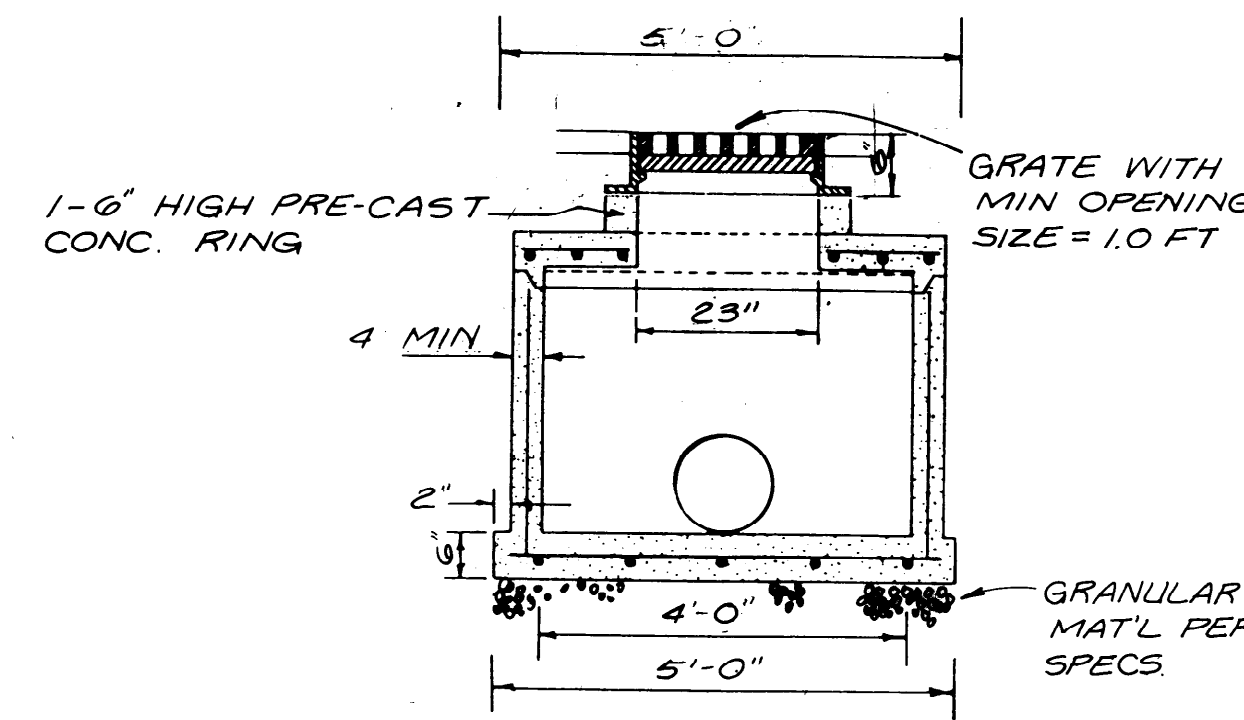


M.H. COVER
NTS

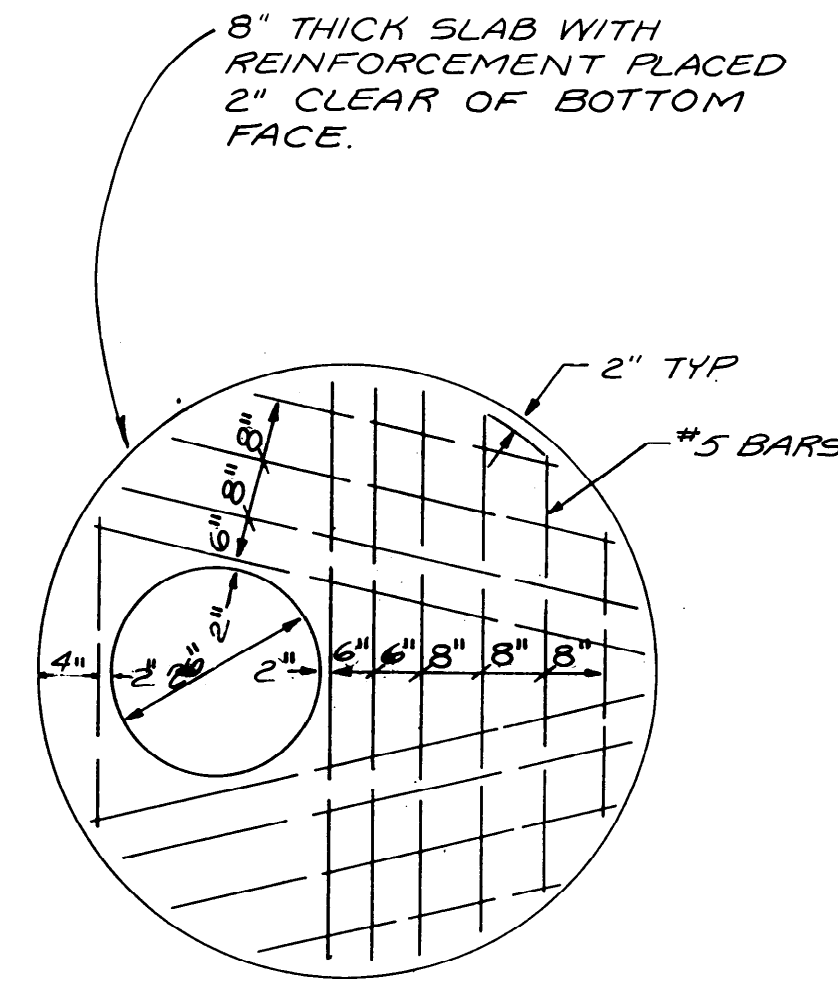
C.B. GRATE
NTS



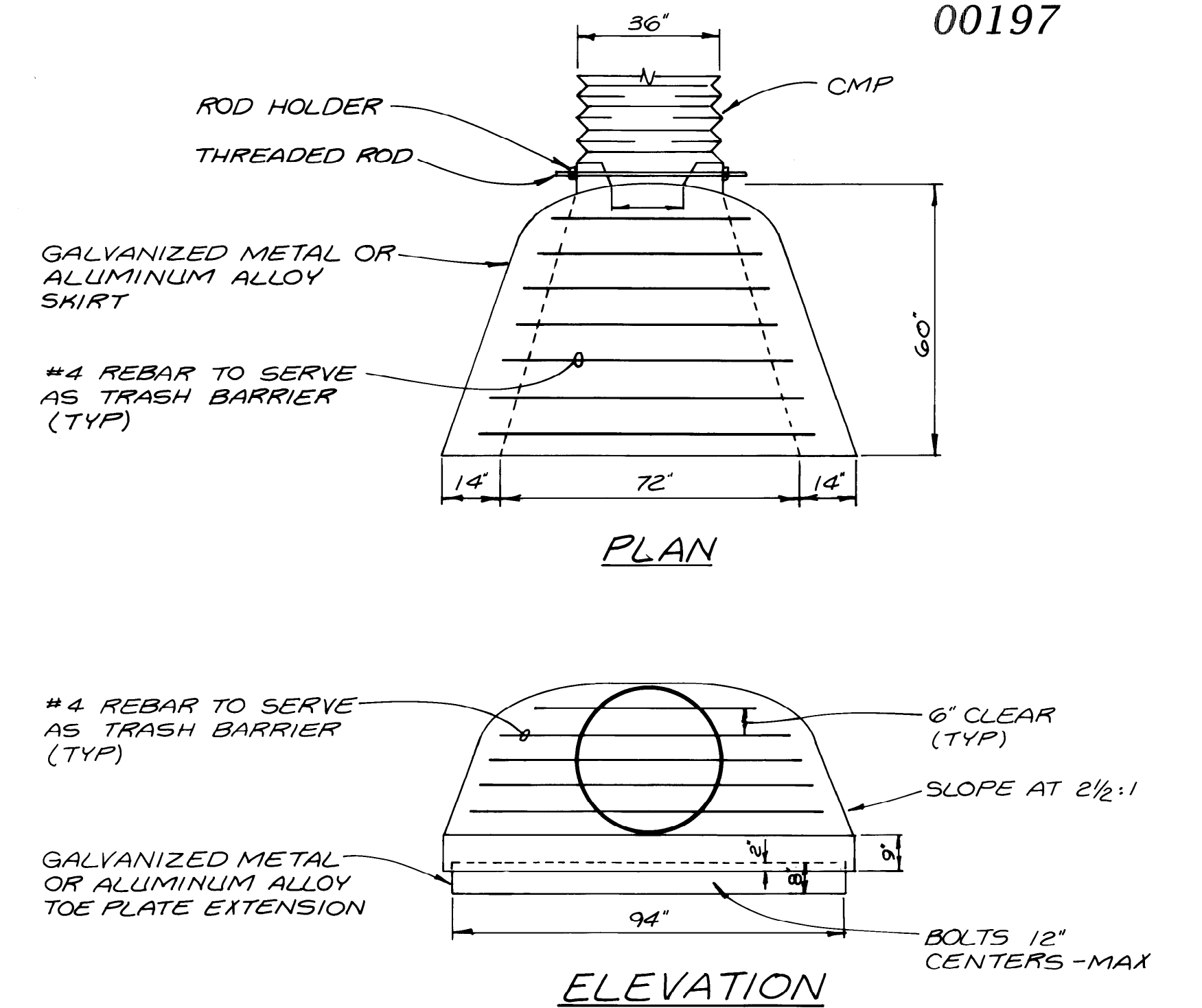
SIDE



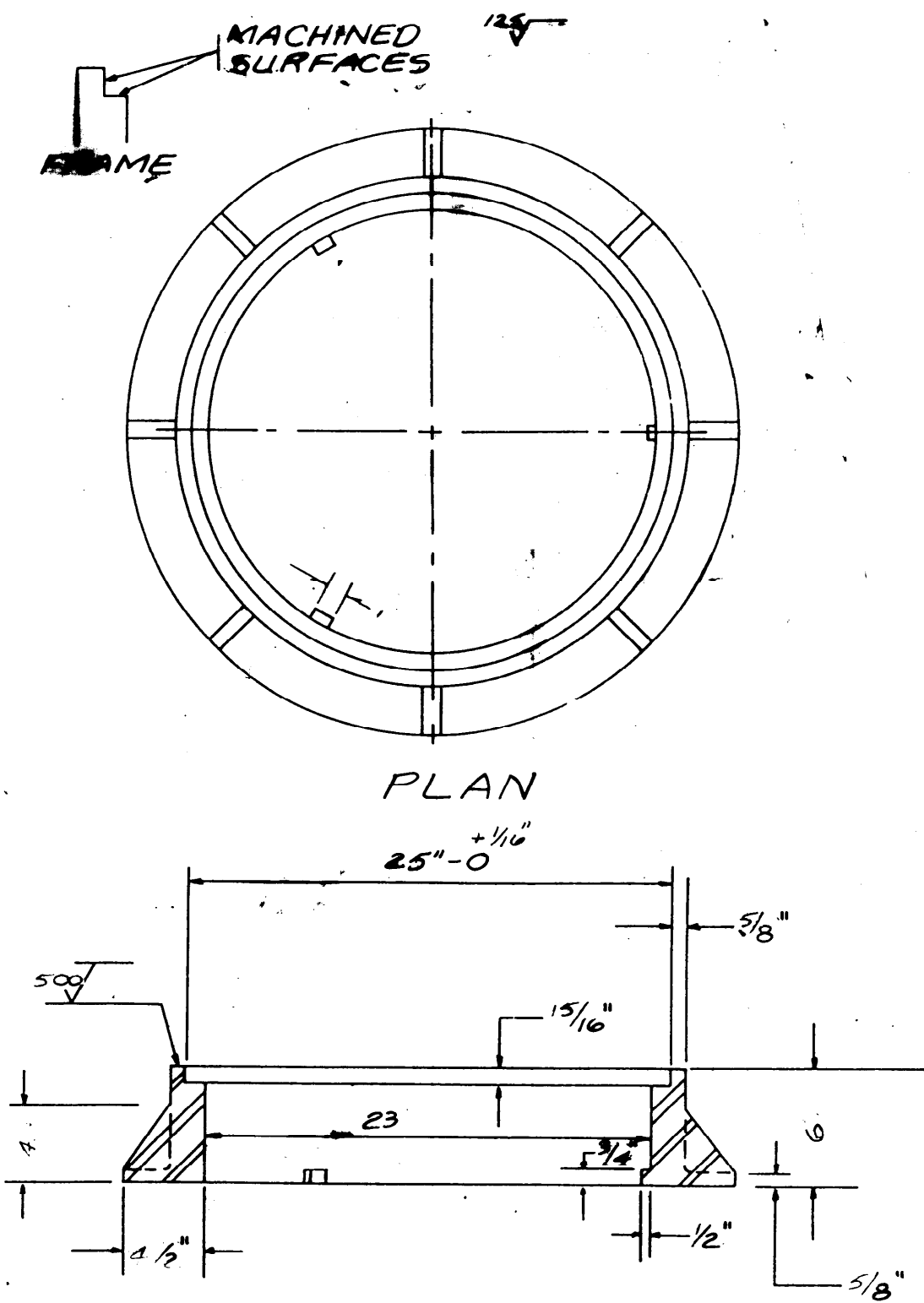
CATCH BASIN
NTS



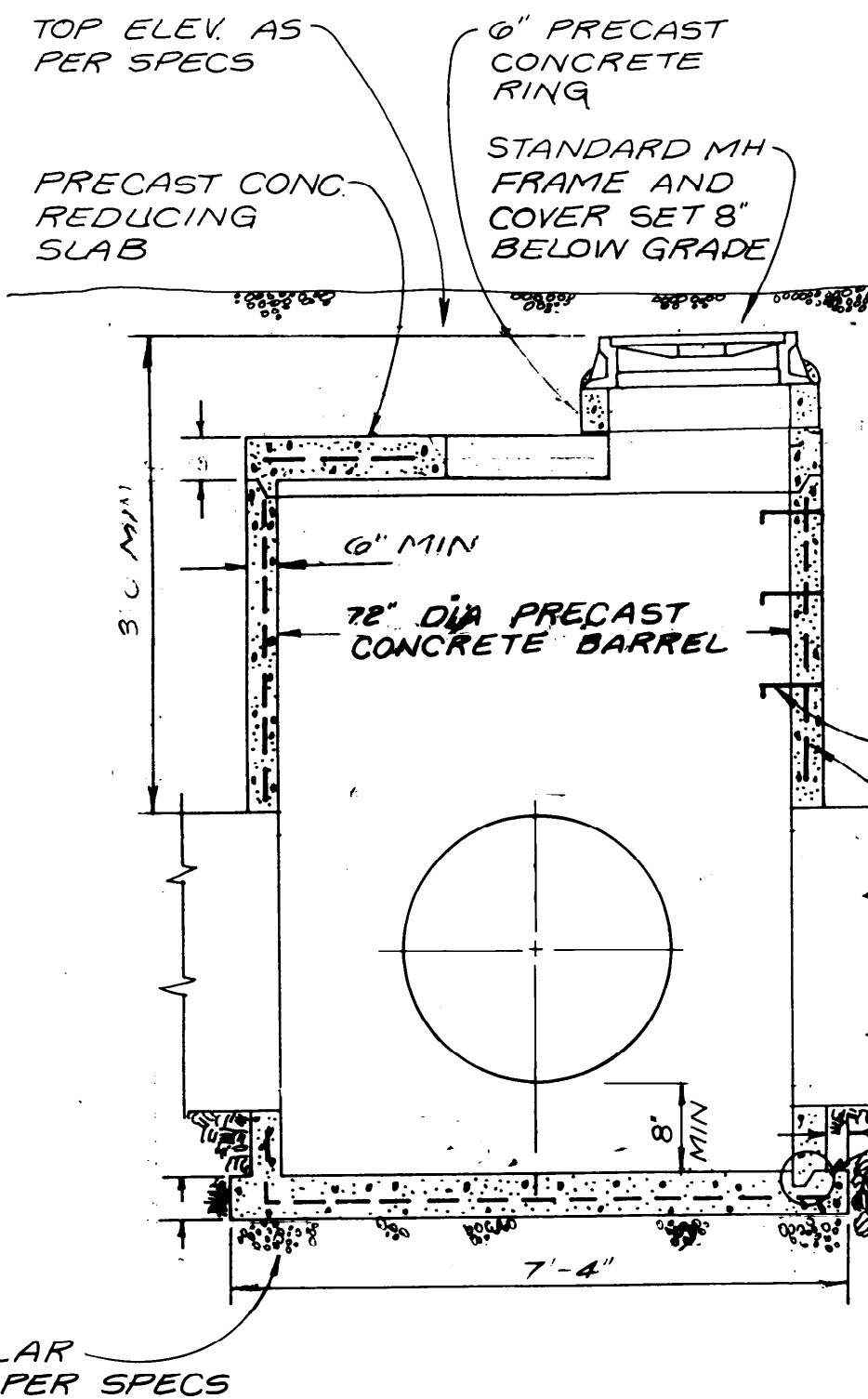
PRECAST CONCRETE REDUCING SLAB
NTS



STORM SEWER END SECTION
NTS



C.B. OR M.H. FRAME
NTS



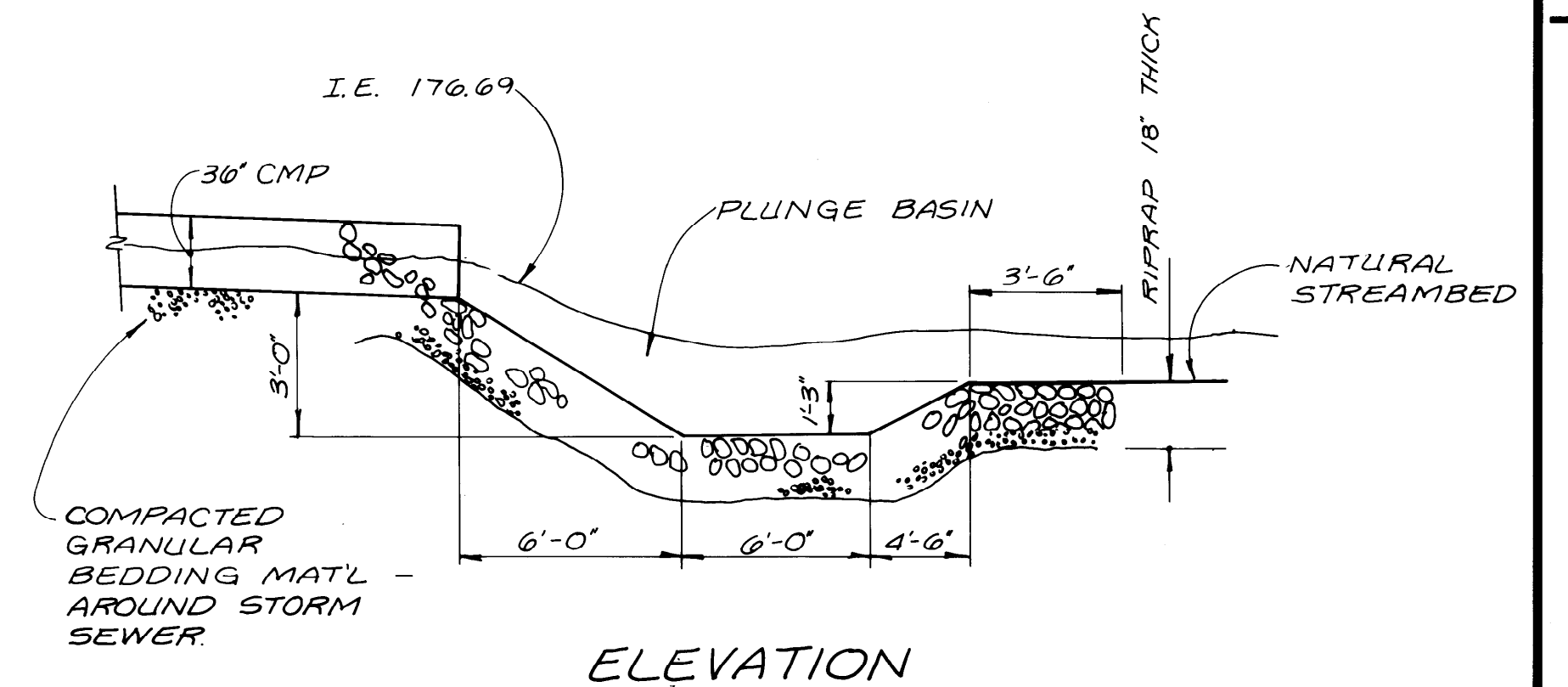
M.H. SECTION
NTS

- NOTES:
1. REFER TO A.S.T.M. DESIGNATION C-478-69 FOR DESIGN REQUIREMENTS
 2. ALL PIPE TO EXTEND 2" INTO MANHOLE.
 3. BLOCKOUTS TO BE FORMED
 4. RUNGS TO BE PLACED 12" ON CENTER ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF CONE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, BOTTOM RUNG TO BE PLACED 6" OVER SMALLEST PIPE.

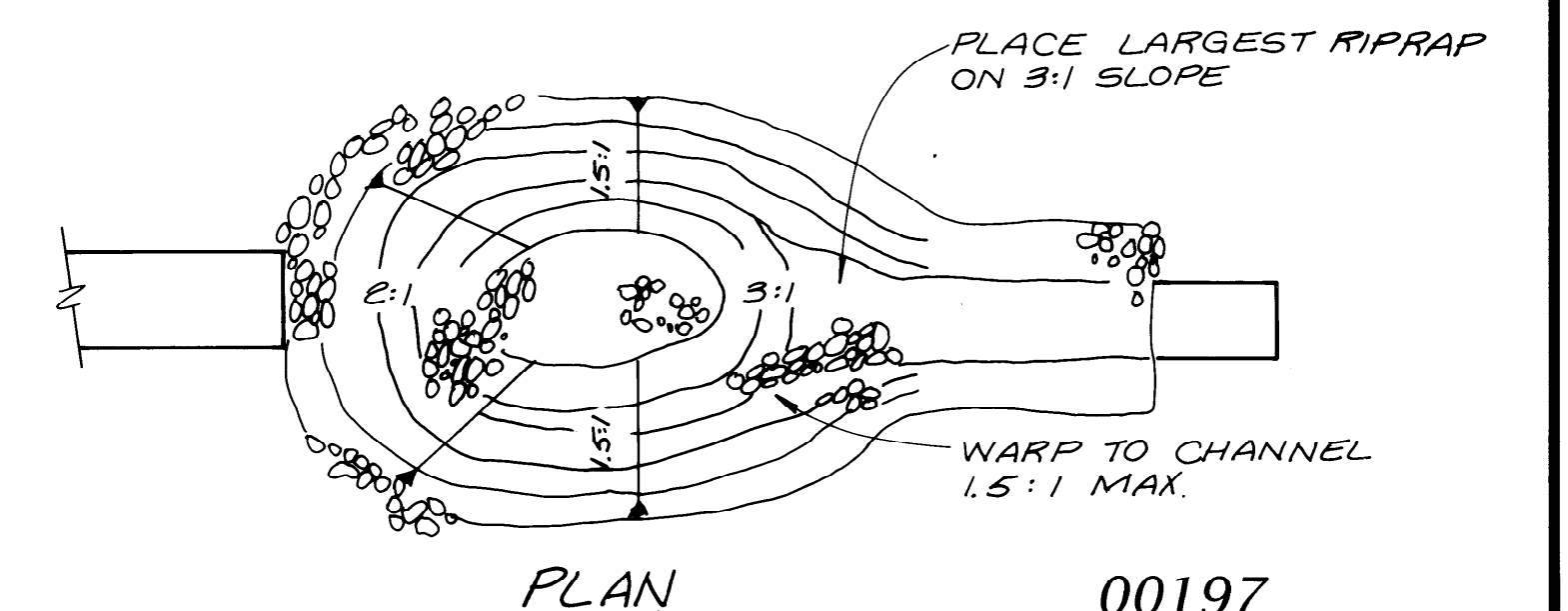
RECORD DRAWINGS

Revisions Drawn by *C. H. Nelson* Date *Aug. 1983*

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ELEVATION



PLAN

PLUNGE BASIN DETAIL
NTS



CH2M HILL	DSGN <i>K. HEPPE</i>
	DR <i>C. D. FILER</i>
	CHK <i>M. A. SCHMIEGE</i>
	APVD

NO.	DATE	REVISION	BY	APVD

VERIFY SCALES
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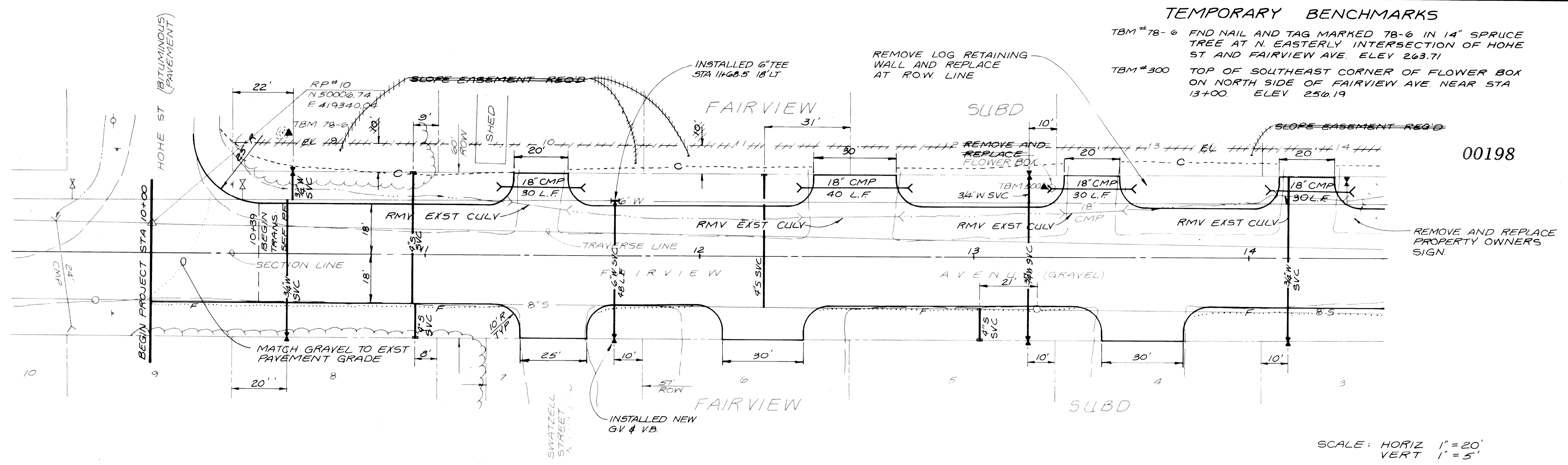
CITY OF HOMER
HOMER, ALASKA

ROAD AND UTILITY IMPROVEMENTS
HOMER, ALASKA

STORM SEWER DETAILS

SHEET	3
DATE	APRIL 1982
PROJ. NO.	K 14290.K1

COMPOSITE OVERLAY IDENTIFICATION
 OVERLAY IDENTIFICATION
 PROJECT NO.
 CONTRACT

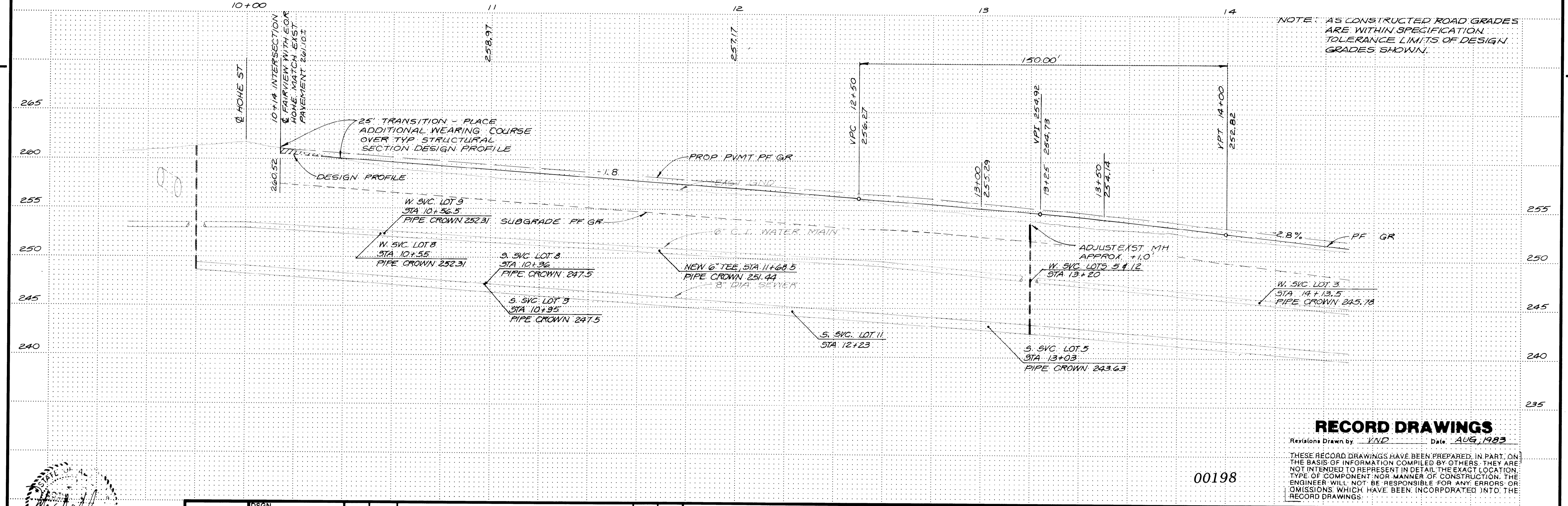


TEMPORARY BENCHMARKS
 TBM #78-6 FND NAIL AND TAG MARKED 78-6 IN 14\"/>

00198

SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

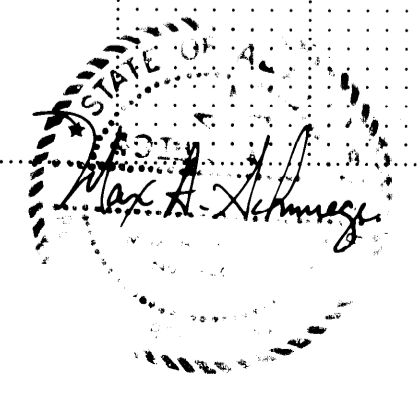
NOTE: AS CONSTRUCTED ROAD GRADES ARE WITHIN SPECIFICATION TOLERANCE LIMITS OF DESIGN GRADES SHOWN.



RECORD DRAWINGS

Revisions Drawn by VND Date AUG 1983
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00198



CH2M HILL
 DSGN K. HEPPE
 DR C.D. FILER
 CHK M.A. SCHMIEGE
 APVD

NO.	DATE	REVISION	BY	APVD

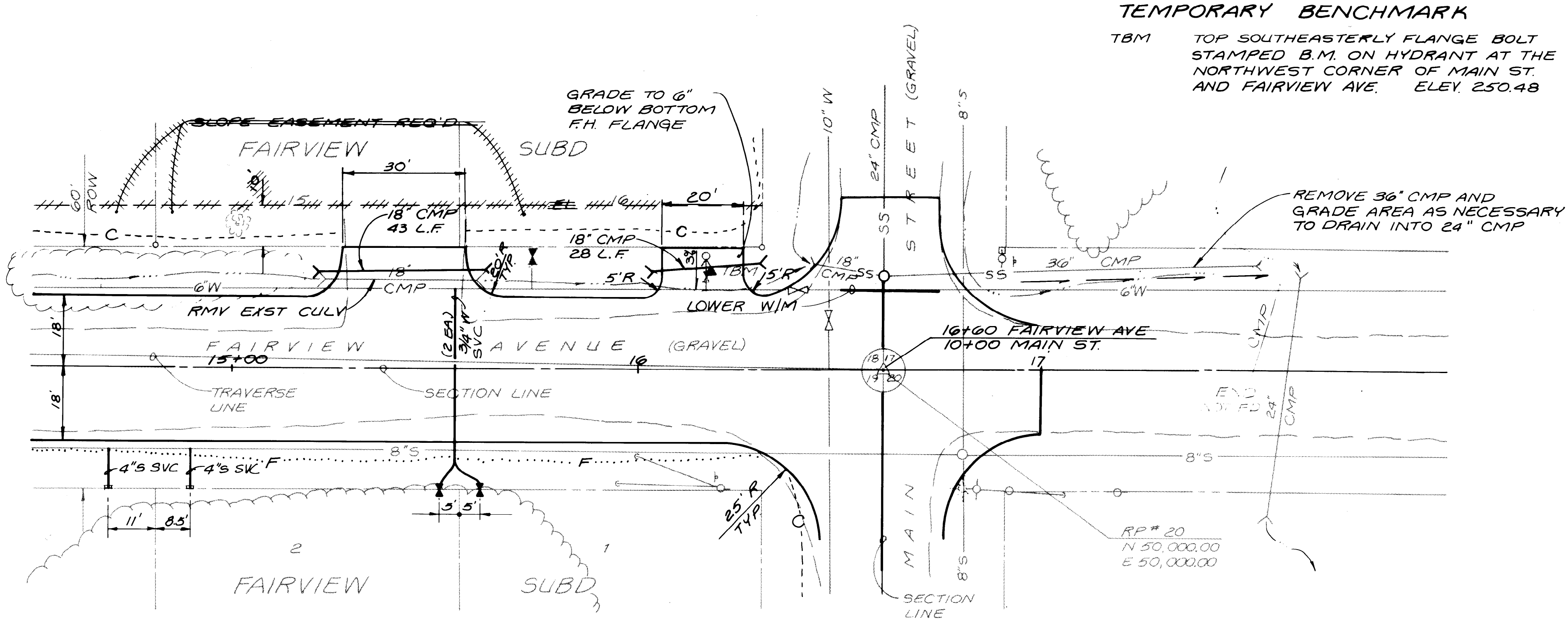
VERIFY SCALES
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CITY OF HOMER
 HOMER, ALASKA

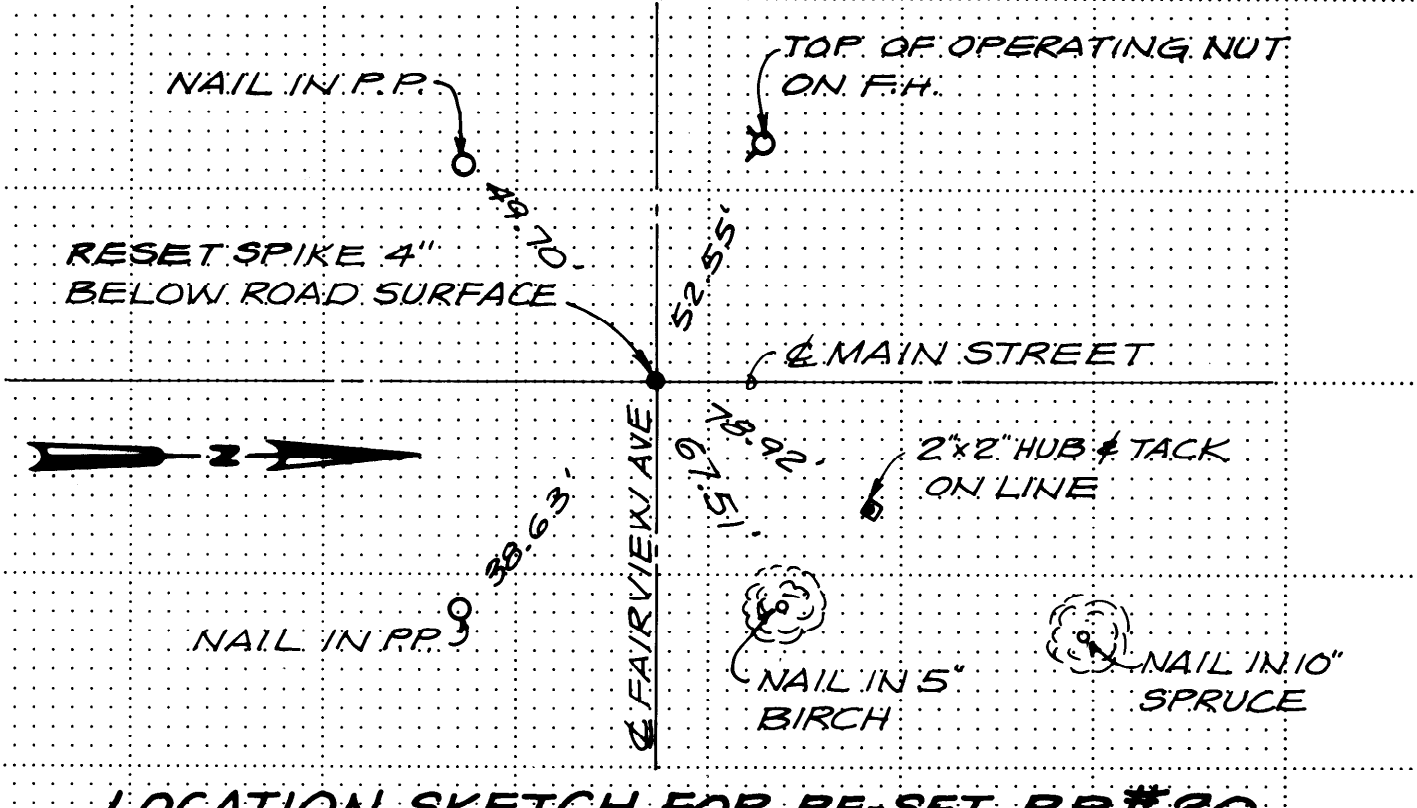
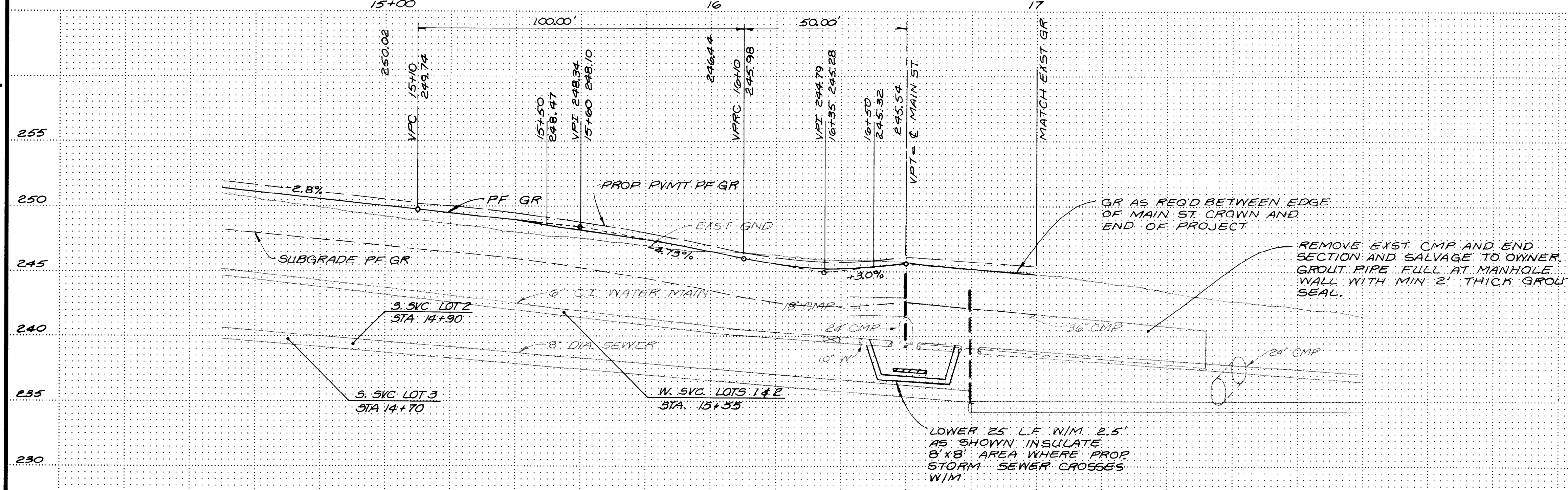
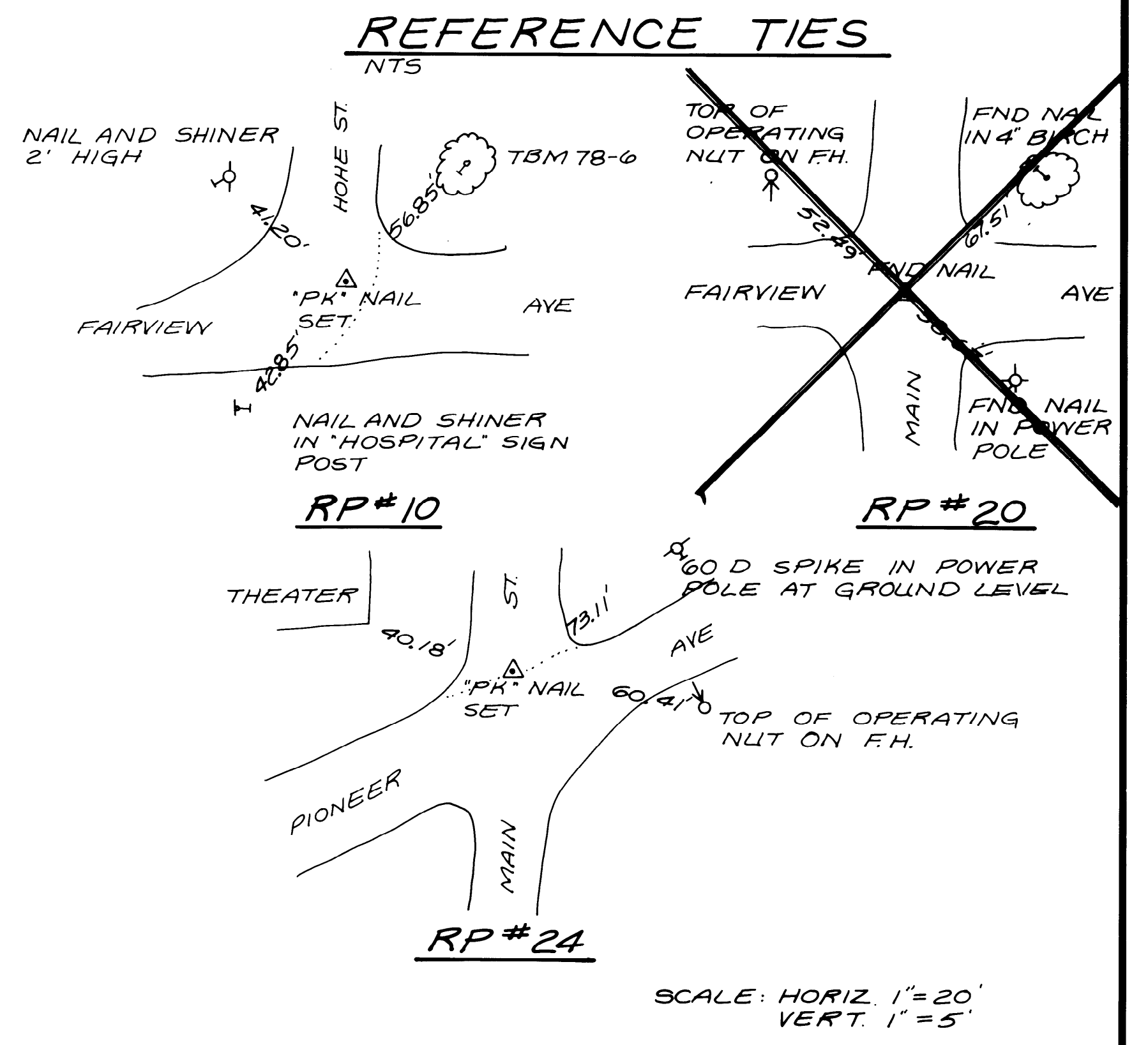
ROAD AND UTILITY IMPROVEMENTS
 HOMER, ALASKA
FAIRVIEW AVE. PLAN AND PROFILE
 STA 10+00 TO 14+00

SHEET **4**
 DATE **APRIL 1982**
 PROJ NO. **K 14290.K1**

FORMAL 381-2224
 PPS
 3.0M
 PRINTED
 FILM
 RE
 COMPOSITE
 OVERLAY
 SCREEN
 PROJ. NO.
 CONTRACT



TEMPORARY BENCHMARK
 TBM TOP SOUTHEASTERLY FLANGE BOLT STAMPED B.M. ON HYDRANT AT THE NORTHWEST CORNER OF MAIN ST. AND FAIRVIEW AVE. ELEV. 250.48

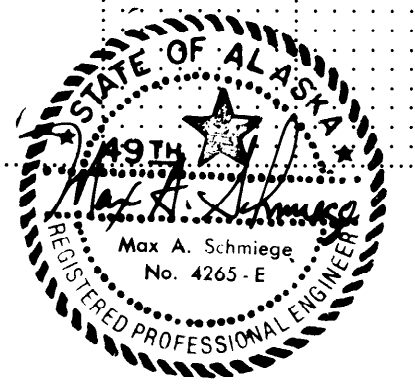


LOCATION SKETCH FOR RE-SET RP#20
 SEC COR 1871 T65N, R13W, S.M. 1920
 BY KEN BRANCH, RLS, 4/13/83

NOTE: AS CONSTRUCTED ROAD GRADES ARE WITHIN SPECIFICATION TOLERANCE LIMITS OF DESIGN GRADES SHOWN.

RECORD DRAWINGS

Revisions Drawn by: YND Date: AUG, 1983
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



DSGN R. HEPPE					
DR C.D. FILER					
CHK M.A. SCHMIEGE					
APVD					
NO.	DATE	REVISION	BY	APVD	

VERIFY SCALES.
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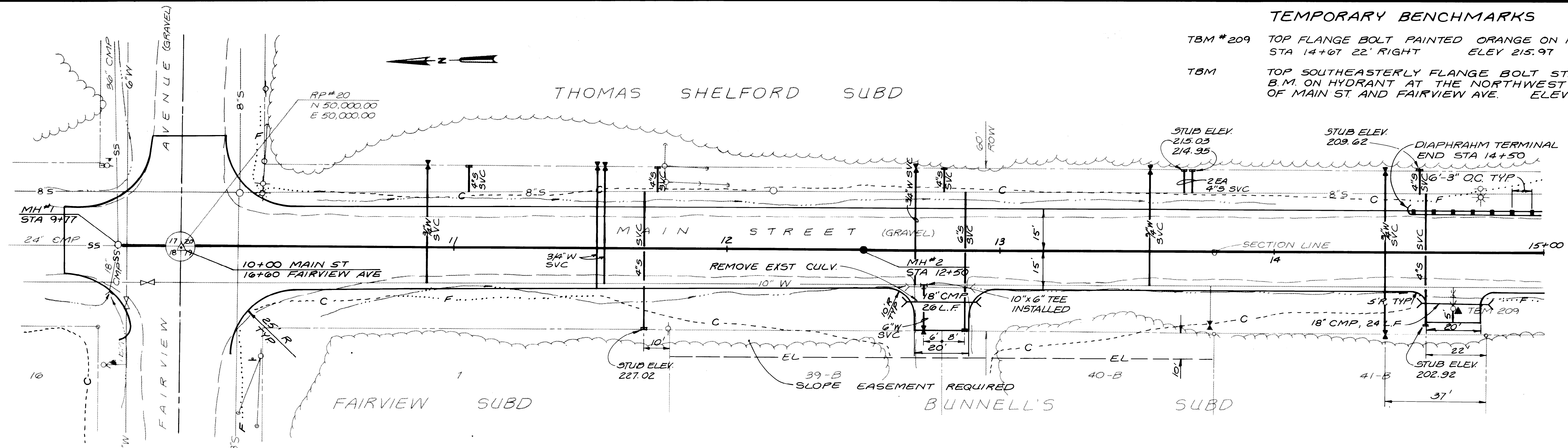
CITY OF HOMER
 HOMER, ALASKA

ROAD AND UTILITY IMPROVEMENTS
 HOMER, ALASKA
FAIRVIEW AVE. PLAN AND PROFILE
 STA 14+50 TO 17+00

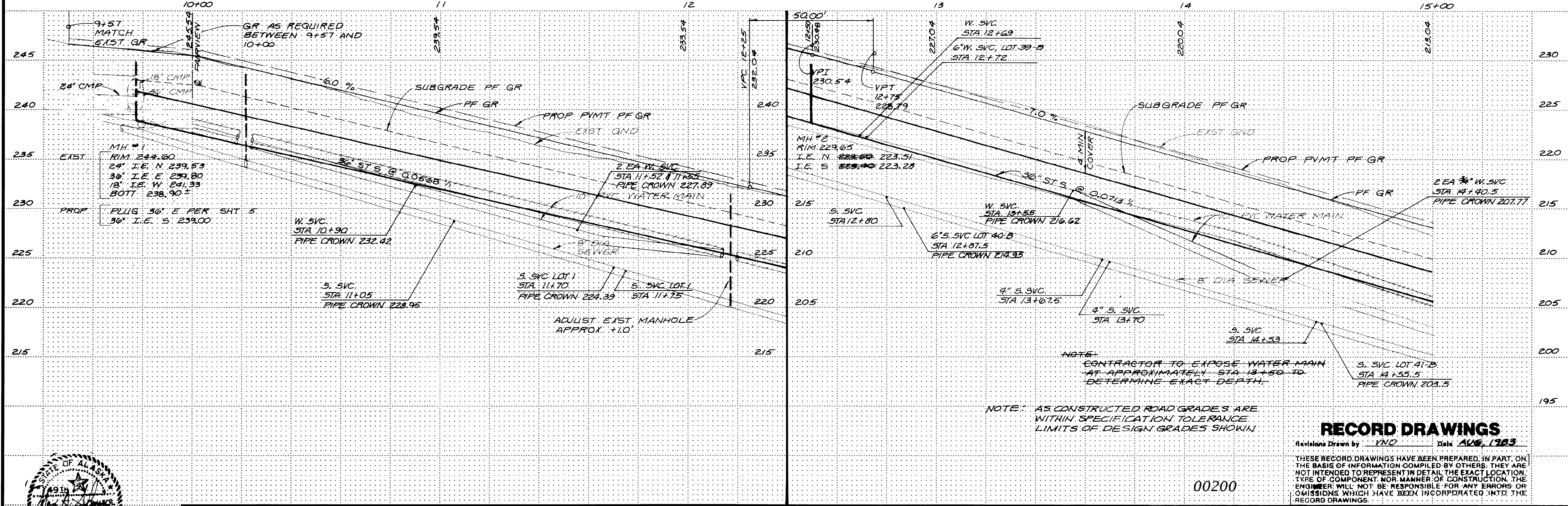
SHEET
5
 DATE **APRIL 1982**
 PROJ. NO. **K 14290.K1**

00199

TBM #209 TOP FLANGE BOLT PAINTED ORANGE ON F.H. #209 STA 14+00 22' RIGHT ELEV 215.97
 TBM TOP SOUTHEASTERLY FLANGE BOLT STAMPED B.M. ON HYDRANT AT THE NORTHWEST CORNER OF MAIN ST AND FAIRVIEW AVE. ELEV 250.48



SCALE: HORIZ. 1"=20'
 VERT. 1"=5'



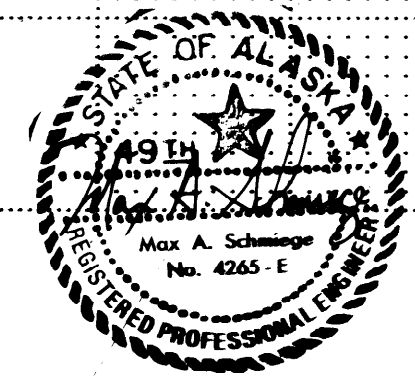
NOTE: CONTRACTOR TO EXPOSE WATER MAIN AT APPROXIMATELY STA 13+50 TO DETERMINE EXACT DEPTH.
 NOTE: AS CONSTRUCTED ROAD GRADES ARE WITHIN SPECIFICATION TOLERANCE LIMITS OF DESIGN GRADES SHOWN

RECORD DRAWINGS

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00200

COMPOSITE OVERLAY IDENTIFICATION PROJ. NO. CONTRACT OVERLAY SCREEN



DESIGN	J.P. MACIARIELLO				
DR	C.D. FILER				
CHK	M.A. SCHMIEGE				
APVD					
	NO.	DATE	REVISION	BY	APVD

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ROAD AND UTILITY IMPROVEMENTS
 HOMER, ALASKA
MAIN ST. PLAN AND PROFILE
 STA 10+00 TO 15+00

SHEET 6
 DATE APRIL 1982
 PROJ. NO. K 14280.K1

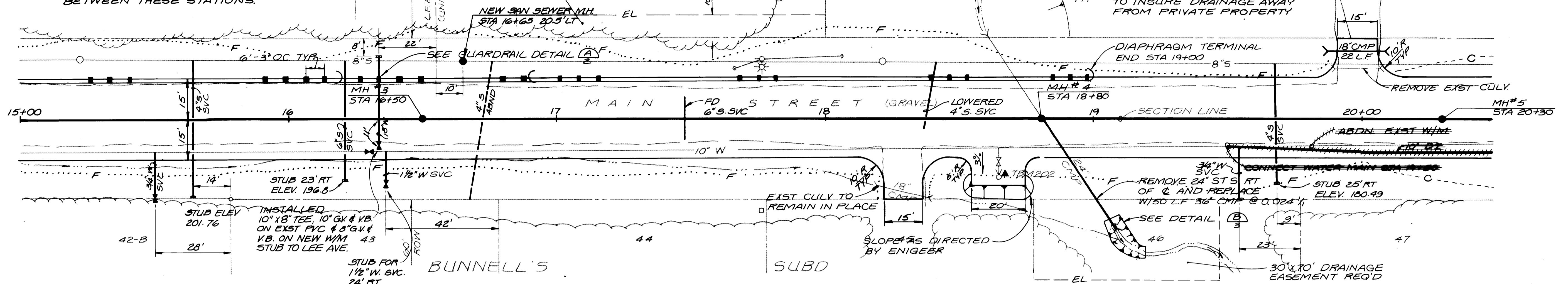
TEMPORARY BENCHMARK

TBM #202 TOP FLANGE BOLT ON F.H. #202
AT STA 18+65 22' RIGHT
ELEV. 187.36

00201

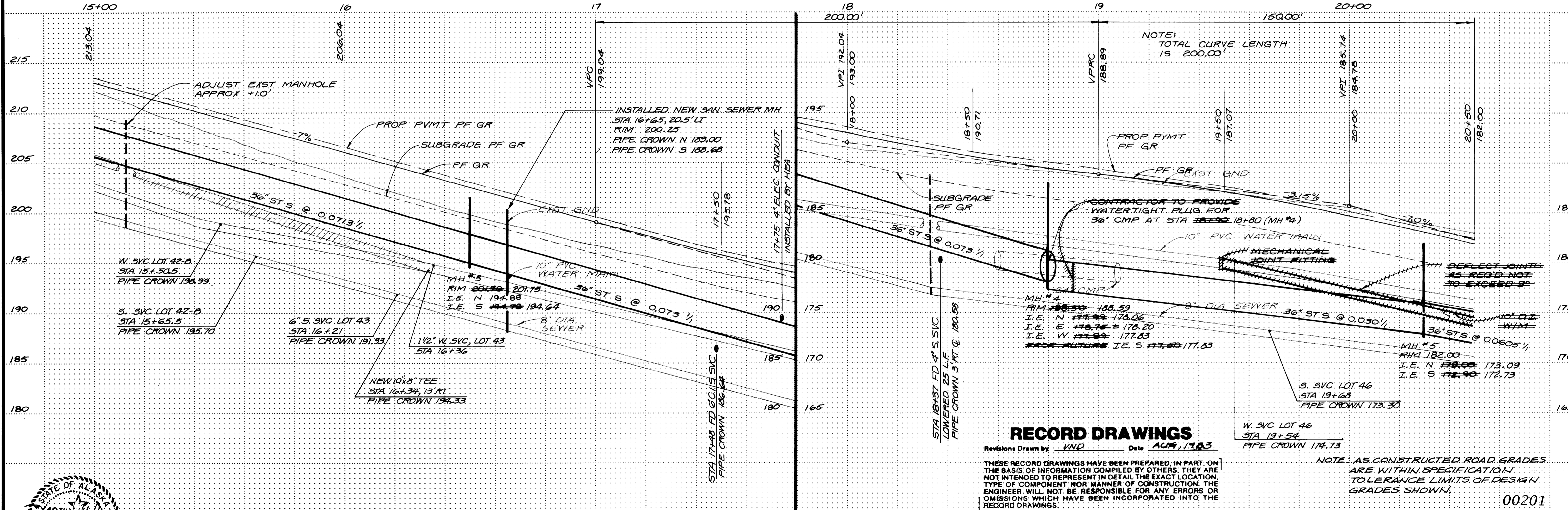
NOTE:
INSTALL DIAPHRAGM TERMINAL ENDS AS SHOWN AT STA 16+20 AND 16+90.
CONSTRUCT STANDARD GUARDRAIL BETWEEN THESE STATIONS.

NOTE:
STA 18+90 LT TO 19+90 LT
CONTRACTOR TO SLOPE GND
FROM R.O.W. TOWARD ROADWAY
TO INSURE DRAINAGE AWAY
FROM PRIVATE PROPERTY



NOTES:
1. RAISE FIRE HYDRANT 3.0' IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. INSULATE 8'x8' AREA STA 18+85 RT WHERE PROP STORM SEWER CROSSES W/M.

SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'



RECORD DRAWINGS

Revisions Drawn by: VND Date: APR 1983

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NOTE: AS CONSTRUCTED ROAD GRADES ARE WITHIN SPECIFICATION TOLERANCE LIMITS OF DESIGN GRADES SHOWN.

00201



CH2M HILL
 DESIGN: J.P. MACIARIELLO
 DRAWN: C.D. FILER
 CHECKED: M.A. SCHMIEGE
 APPROVED: APVD

NO.	DATE	REVISION	BY	APVD

VERIFY SCALES
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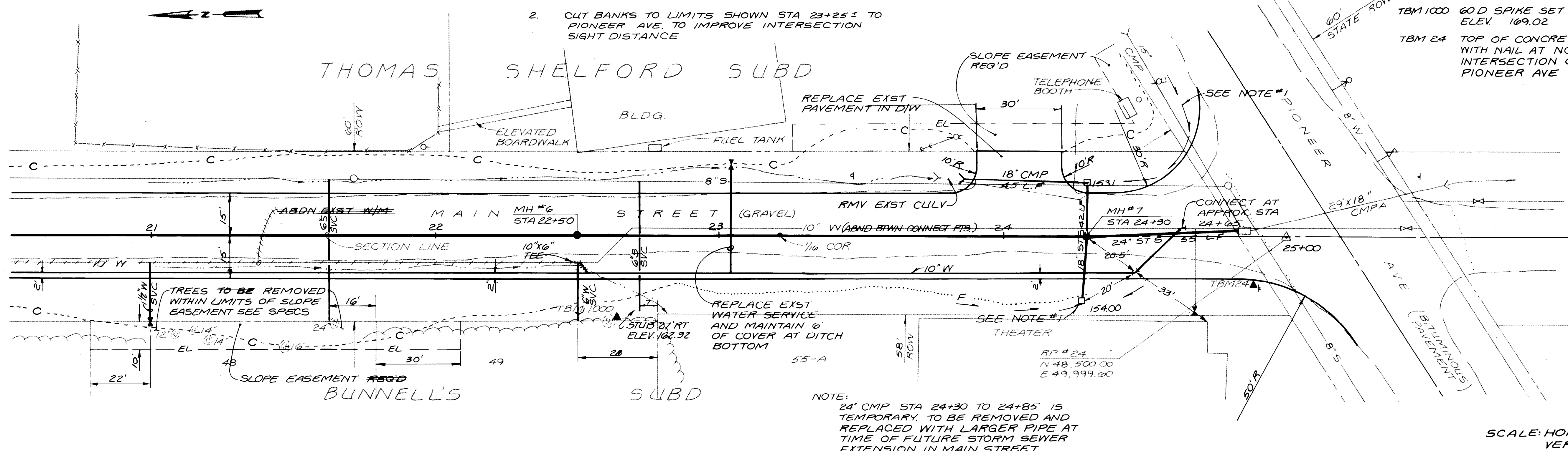
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ROAD AND UTILITY IMPROVEMENTS
 HOMER, ALASKA
MAIN ST. PLAN AND PROFILE
 STA 15+00 TO 20+50

SHEET 7
 DATE: APRIL 1982
 PROJ. NO. K 14290.K1

- NOTES:
 1. GRADE TO DRAIN TO CATCH BASINS
 2. CUT BANKS TO LIMITS SHOWN STA 23+25 TO PIONEER AVE. TO IMPROVE INTERSECTION SIGHT DISTANCE

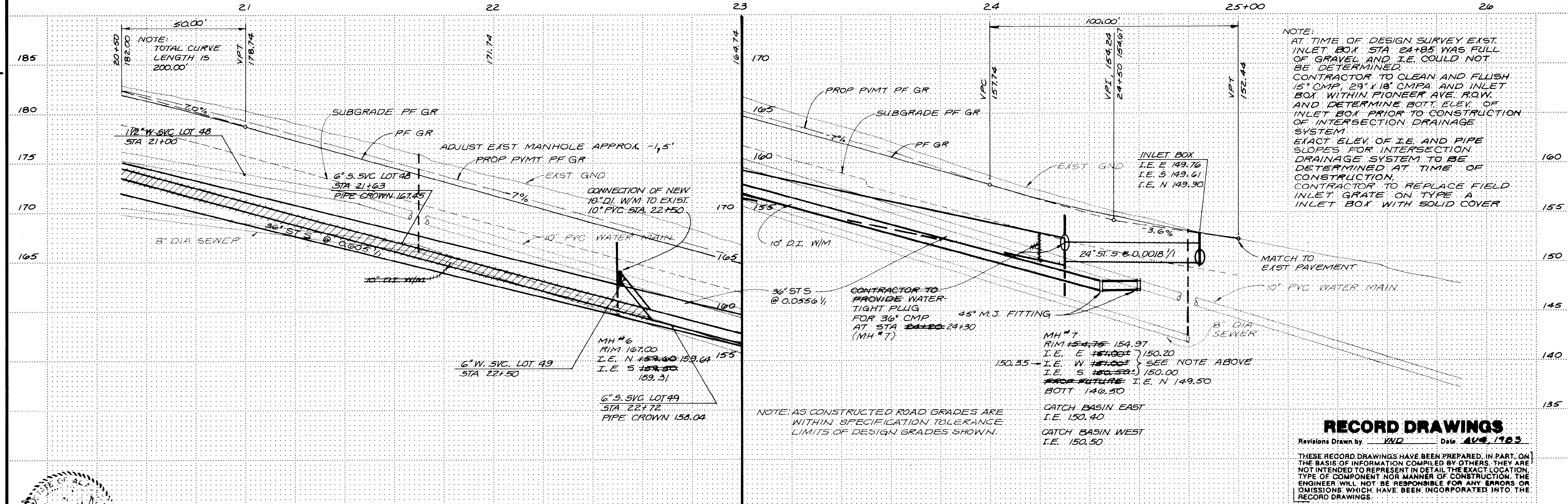
TEMPORARY BENCHMARKS
 TBM 1000 60 D SPIKE SET IN 14" SPRUCE ELEV 169.02
 TBM 24 TOP OF CONCRETE FILLED POST WITH NAIL AT NORTHWESTERLY INTERSECTION OF MAIN ST. AND PIONEER AVE ELEV 156.41



00202

NOTE:
 24" CMP STA 24+30 TO 24+85 IS TEMPORARY TO BE REMOVED AND REPLACED WITH LARGER PIPE AT TIME OF FUTURE STORM SEWER EXTENSION IN MAIN STREET

SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5'



NOTE:
 AT TIME OF DESIGN SURVEY EXIST. INLET BOX STA 24+85 WAS FULL OF GRAVEL AND I.E. COULD NOT BE DETERMINED. CONTRACTOR TO CLEAN AND FLUSH 15" CMP, 29" X 18" CMPA AND INLET BOX WITHIN PIONEER AVE ROW AND DETERMINE BOTT. ELEV. OF INLET BOX PRIOR TO CONSTRUCTION OF INTERSECTION DRAINAGE SYSTEM. EXACT ELEV. OF I.E. AND PIPE SLOPES FOR INTERSECTION DRAINAGE SYSTEM TO BE DETERMINED AT TIME OF CONSTRUCTION. CONTRACTOR TO REPLACE FIELD INLET GRATE ON TYPE A INLET BOX WITH SOLID COVER.

NOTE: AS CONSTRUCTED ROAD GRADES ARE WITHIN SPECIFICATION TOLERANCE LIMITS OF DESIGN GRADES SHOWN.

MH #7
 RIM 154.75 154.97
 I.E. E 154.00 150.20
 I.E. W 154.00 150.35
 I.E. S 154.00 150.00
 PROP FUTURE I.E. N 149.50
 BOTT. 146.50
 CATCH BASIN EAST
 I.E. 150.40
 CATCH BASIN WEST
 I.E. 150.50

RECORD DRAWINGS

Revisions Drawn by: VLD Date: APR 1983

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PRINTED 3.00 M
 FILM KE
 PFS
 FORMAT 38.1-223
 OVERLAY IDENTIFICATION
 PROJ. NO.
 CONTRACT



CH2M HILL
 DSGN J.P. MACIARIELLO
 DR C.D. FILER
 CHR M.A. SCHMIEG
 APVD

NO.	DATE	REVISION	BY	APVD
1	6-22-82	CHANGE RADIUS @ NE QUADRANT MAIN/PIONEER	CDP	MAS

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 HOMER, ALASKA

ROAD AND UTILITY IMPROVEMENTS
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MAIN ST. PLAN AND PROFILE
 STA 20+50 TO 25+00

SHEET 8
 DATE APRIL 1982
 PROJ. NO. K 14290.K1