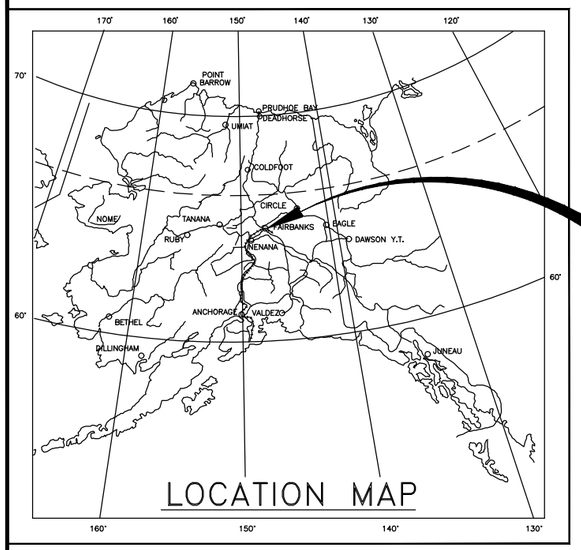

PROJECT LOCATION

CITY OF FAIRBANKS

PROPOSED ROADWAY PROJECT

PROJECT #: ITB-25-15

12TH & CUSHMAN IMPROVEMENTS

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
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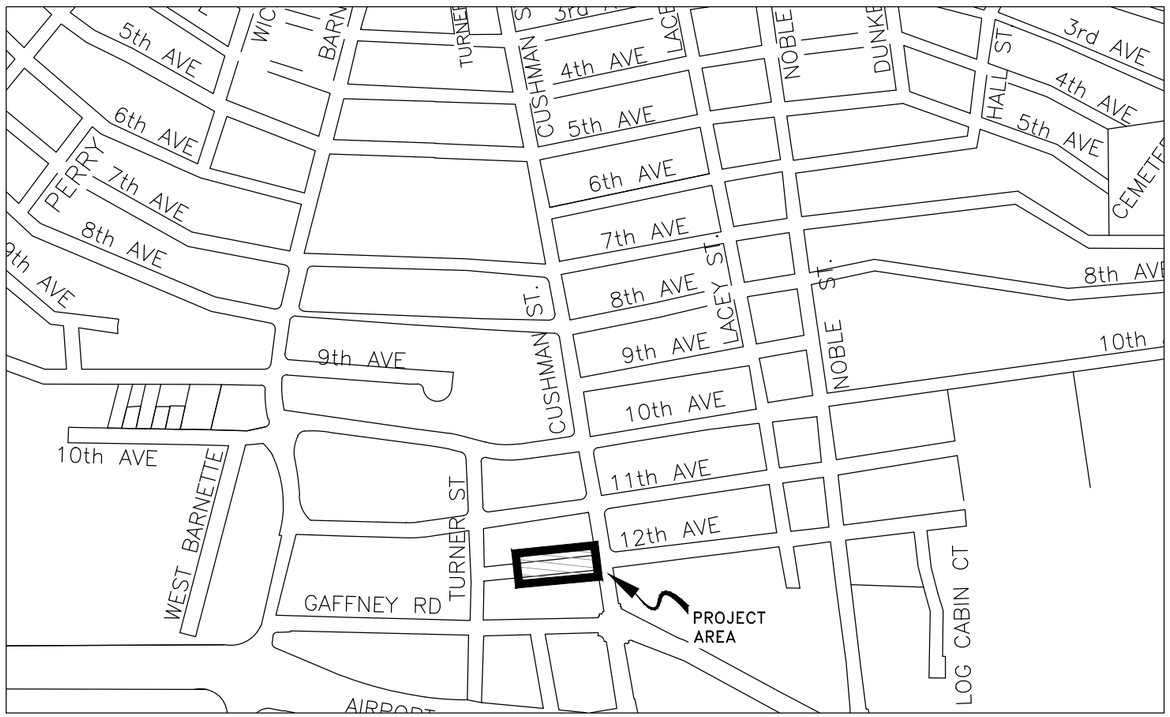
A3	SURVEY CONTROL
B1	TYPICAL SECTION
F1 – F3	ROADWAY PLAN & PROFILE, CROSS SECTIONS
Q1	EROSION & SEDIMENT CONTROL PLAN
T1	TRAFFIC CONTROL PLAN
CD1 – CD2	CITY OF FAIRBANKS STANDARD DETAILS – CONCRETE



VICINITY MAP

DATE	REVISION	BY

SCALE:

DESIGNED:
DRAWN:
CHECKED:
DATE:

APPROVED

CITY ENGINEER

DATE

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

A1
OF SHEETS

P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L3Production\Title Sheet-TITLE SHEET Mon, Jun/30/25 01:52pm

ABBREVIATIONS

ABD – ABANDONED
AC – ASPHALT CONCRETE
AP – ANGLE POINT
ABC – AGGREGATE

BASE COURSE
BK SDWK – BACK OF SIDEWALK
BLDG – BUILDING
BL – BASELINE
BOP – BEGINNING OF PROJECT
BV – BUTTERFLY VALVE

C – CONDENSATE CB – CATCH BASIN
CC – CURB CUT
CI – CAST IRON
CL – CENTER LINE
CONC – CONCRETE
CS – CONDENSATE SERVICE
CSP – CORRUGATED STEEL PIPE

D – DUCT BANK
DIP – DUCTILE IRON PIPE
DL – DITCH LINE
DG – DOWN GUY
DW – DRIVEWAY

E – EAST
e – SUPERELEVATION
EA – EACH
ELEV – ELEVATION
EOP – END OF PROJECT
EP – EDGE OF PAVEMENT
ES – END SECTION
EXIST – EXISTING

FG – FINISH GRADE
FH – FIRE HYDRANT
FL – FLOW LINE
FLG – FLANGE
FOC – FACE OF CURB
FRM – FRAME
FW – FLUSHWELL

G – GUTTER
GP – GRADE POINT
GRP– GUARD POST
GR – GRADE
GRT – GRATE
GV – GATE VALVE

HB – HORIZONTAL BEND
HDPE – HIGH DENSITY POLYETHYLENE
HPS – HIGH PRESSURE SODIUM LUMINAIRE
HWR – HOT WATER RETURN
HWS – HOT WATER SUPPLY
HWSS – HOT WATER SERVICE SUPPLY

ID – INSIDE DIAMETER
IE – INVERT ELEVATION
INS – INSULATION

L – LENGTH OF CURVE
LTDL – LEFT DITCH LINE
LT – LEFT
LF – LINEAL FEET

MAX – MAXIMUM
MB – MAILBOX
MH – MANHOLE
MIN – MINIMUM
MON – MONUMENT
MV – MERCURY VAPOR LUMINAIRE

NC – NORMALLY CLOSED
NE – NORTHEAST
NW – NORTHWEST
N – NORTH
N.I.C. – NOT IN CONTRACT

OD – OUTSIDE DIAMETER
OG – ORIGINAL GROUND

PC – POINT OF CURVATURE
PCC – POINT OF COMPOUND CURVE
PI – POINT OF INTERSECTION
PIV – POST INDICATOR VALVE
PL – PROPERTY LINE
POT – POINT ON TANGENT
PRC – PROPERTY CORNER
PP – POWER POLE
PT – POINT OF TANGENCY
PLVC – POLYVINYL CHLORIDE
PUE – PERMANENT UTILITY EASEMENT
PVC – POINT OF VERTICAL CURVATURE
PVI – POINT OF VERTICAL INTERSECTION
PVMT – PAVEMENT
PVT – POINT OF VERTICAL TANGENCY

R – RADIUS
RTDL – RIGHT DITCH LINE
RMC – RIGID METAL CONDUIT
ROW – RIGHT OF WAY
R&R – REMOVE AND REPLACE
RT – RIGHT
RPM – REINFORCED PLASTIC MORTAR

SMTA – SELECTED MATERIAL TYPE A
s – SLOPE
S – SOUTH
SE – SOUTHEAST
SM – SEWER MAIN
SMH – SEWER MANHOLE
SMHS– SEWER MANHOLES
SCH – SCHEDULE
SD – STORM DRAIN
SI – STREET INTERSECTION
SL – STREET LIGHT
SP – STEEL PIPE
SS – SEWER SERVICE
ST – STEAM
STA – STATION
STS – STEAM SERVICE
SW – SOUTHWEST

T – TELEPHONE
TC –TOP OF CURB
TCP– TEMP. CONSTRUCTION PERMIT
TOC – TOP OF CONDUIT
TOP – TOP OF PIPE
TYP– TYPICAL

UG – UNDERGROUND

VB – VALVE BOX

W – WEST
WM – WATER MAIN
WS – WATER SERVICE
WSP – WOOD STAVE PIPE

GENERAL NOTES

1. GRADES, ALIGNMENTS, APPROACH LOCATIONS, LENGTHS AND LOCATIONS OF CONDUIT RUNS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. ALL DISTANCES SHOWN IN THE PLANS ARE HORIZONTAL MEASUREMENTS.
2. SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK OR CURBING ABUTS EXISTING. SAWCUTS SUBSIDIARY TO RESPECTIVE PAY ITEMS.
3. APPLY WATER FOR DUST CONTROL DAILY OR AS DIRECTED BY THE ENGINEER. PAY SUBSIDIARY TO PAY ITEM 643.0002.0000 TRAFFIC MAINTENANCE.
4. PAYMENT FOR PAY ITEM 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL BE A LUMP SUM PAYMENT FOR REMOVING ALL ITEMS IN CONFLICT WITH THE IMPROVEMENTS. THESE ITEMS ARE NOT LISTED. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE NATURE OF THIS WORK BEFORE BIDDING.
5. ALL PAYMENTS REQUESTED BY THE CONTRACTOR SHALL BE DEVELOPED BY THE CONTRACTOR IN A FORM ACCEPTABLE TO THE ENGINEER. PAY ESTIMATES SHALL BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN STAGING AREA.
7. NUMEROUS UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND GET LOCATES PRIOR TO EXCAVATION.
8. PRESERVE AND PROTECT EXISTING LANDSCAPE AND FENCING IN PLACE. SUBSIDIARY TO PAY ITEM 202.0001.0000.
9. ALL EXISTING ASPHALT PAVEMENT REMOVED SHALL BE DELIVERED TO THE CITY OF FAIRBANKS PUBLIC WORKS YARD AT 2121 PEGER ROAD. PAY SUBSIDIARY TO ITEM 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

PAY ITEM	DESCRIPTION	UNIT	UNIT PRICE	QTY
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	$	ALL REQUIRED
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	$	180
301.0001.00D1	AGGREGATE BASE COURSE GRADING D-1	TON	$	80
304.0001.000F	SUBBASE, GRADING F	TON	$	150
401.0001.002B	HMA, TYPE II; CLASS B	TON	$	85
401.0004.0000	ASPHALT BINDER, GRADE 52-28	TON	$	5
609.0010.0001	CURB TYPE, CATCH	LF	$	57
609.0011.0001	CURB TYPE, VALLEY GUTTER	LF	$	90
626.2014.0000	ADJUST FLUSHWELL	EACH	$	2
627.0003.0000	INSTALL VALVE BOX	EACH	$	1
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	$	ALL REQUIRED
641.2000.0000	POLLUTION CONTROL	LUMP SUM	$	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	$	ALL REQUIRED
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	$	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSMENT	CONTIGENT SUM	$	ALL REQUIRED

TABLE OF ESTIMATING FACTORS

ITEM NO.	PAY ITEM	ESTIMATING FACTOR	UNIT
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	145	LBS/CF
304.0001.000F	SUBBASE, GRADING F	2	TON/CY
401.0001.002B	HMA, TYPE II; CLASS B	150	LBS/CF
401.0004.5228	ASPHALT BINDER, GRADE 52-28	5.5	% OF HMA PAY ITEM

STATE OF ALASKA 49TH
ROBERT H. PRUSAK JR.
CIVIL ENGINEER
No. 9878
REGISTERED PROFESSIONAL ENGINEER
07/01/25

ABBREVIATIONS, GENERAL NOTES, AND ESTIMATE OF QUANTITIES

DATE	REVISION	BY

SCALE:

DESIGNED:
DRAWN:
CHECKED:
DATE:

APPROVED
CITY ENGINEER
DATE

CITY OF FAIRBANKS ALASKA

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB–25–15

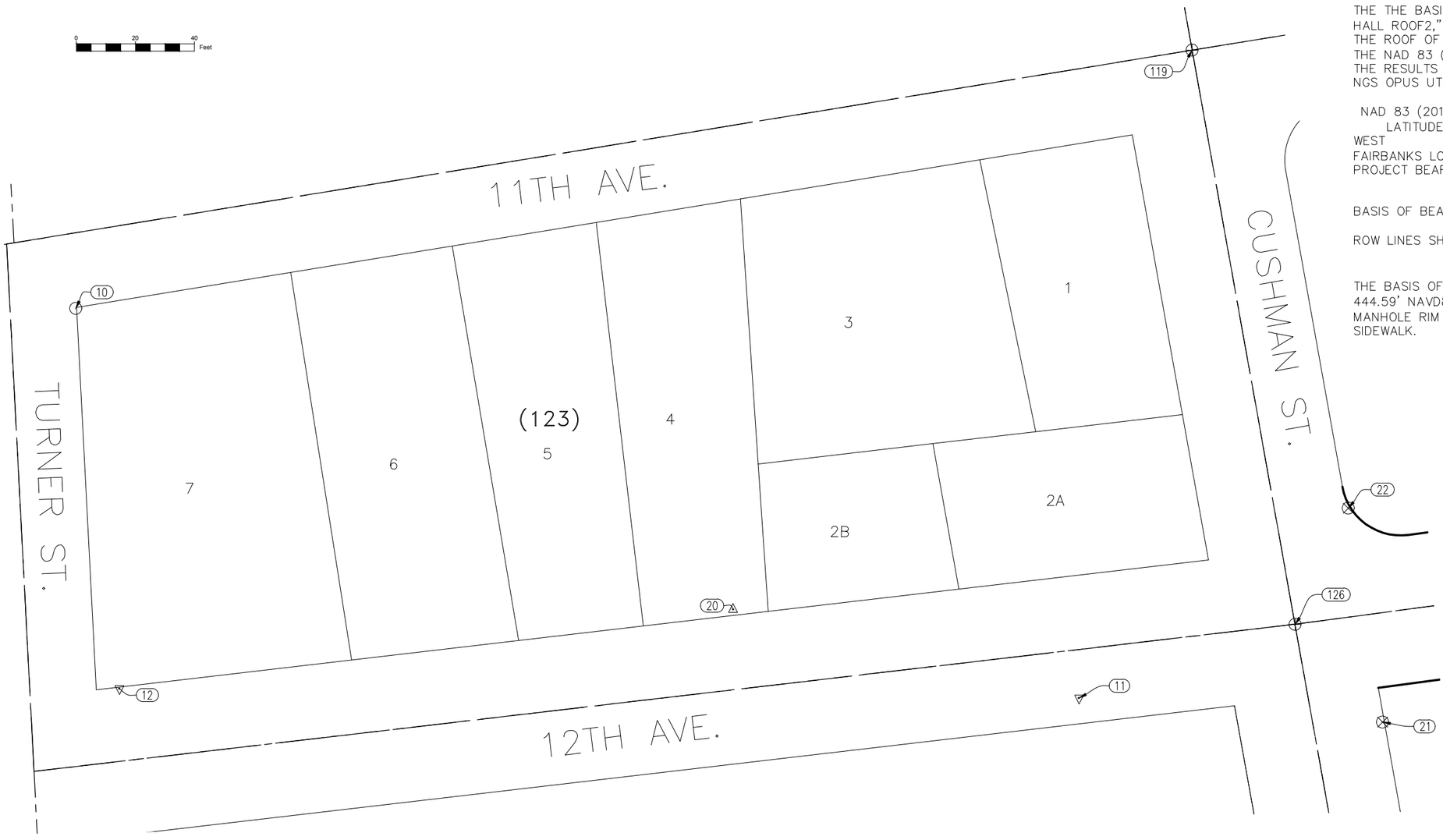
A2
OF SHEETS

P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L3Production\Quantities-Notes-NOTES-ABBREVIATIONS Tue, Jul/01/25 10:43am

HORIZONTAL AND VERTICAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	196308.71	677625.58	443.94	MNS
20	196338.72	677508.56	444.93	SPIKE
21	196300.59	677728.32	444.48	X IN SDWK
22	196372.96	677716.73	443.98	CP

ROW MONUMENTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	196440.61	677286.13	441.8	RBCF 705S
119	196527.98	677663.86	442.7	SI 11TH CUSH
126	196333.64	677698.69	443.3	FBC 12TH-CUSH

0 20 40 Feet



CONTROL NOTES

THIS PROJECT IS LOCATED ENTIRELY WITHIN THE FAIRBANKS LOW DISTORTION PROJECTION (LDP), A LOW DISTORTION PROJECTION CREATED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES.

FAIRBANKS LDP DEFINITION:
LINEAR UNIT: U.S. SURVEY FOOT (SFT)
DATUM: NAD83(2011)
PROJECTION: LAMBERT CONFORMAL CONIC, (SINGLE PARALLEL)
STANDARD PARALLEL AND GRID ORIGIN: 64°51'00"N
CENTRAL MERIDIAN (GRID ORIGIN): 146°56'00"W
FALSE NORTHING: 200,000 SFT
FALSE EASTING: 800,000 SFT
STANDARD PARALLEL SCALE: 1.00003 (EXACT)

THE THE BASIS OF COORDINATES FOR THIS PROJECT IS POINT NO. 1, "CITY HALL ROOF2," A FIXED POSITION TRIMBLE ZEPHYR 3 GEODETIC ANTENNA ON THE ROOF OF FAIRBANKS CITY HALL.
THE NAD 83 (2011) EPOCH (2010) POSITION FOR POINT NO. 1 IS BASED ON THE RESULTS OBTAINED FROM THE STATIC GPS OBSERVATIONS SENT TO THE NGS OPUS UTILITY FOR PROCESSING.

NAD 83 (2011) EPOCH (2010)
LATITUDE: 64° 50' 23.61722" NORTH, LONGITUDE 147° 43' 16.35657" WEST
FAIRBANKS LOW DISTORTION PROJECTION COORDINATES (US SURVEY FEET)
PROJECT BEARINGS ARE FAIRBANKS 05-05-15 LDP GRID BEARINGS.

BASIS OF BEARING IS FAIRBANKS LDP.

ROW LINES SHOWN WERE DONE BY CITY OF FAIRBANKS (WILLIAM IRVING, PLS).

THE BASIS OF VERTICAL CONTROL IS THE BENCHMARK D-53 (PID TT2864) ELEV, 444.59' NAVD88. TBMS ON SITE ESTABLISHED USING DIFFERENTIAL LEVELS TO MANHOLE RIM SCRIBED WITH AN "X", AND CHISELED X MARKS ON THE BACK OF SIDEWALK.

LEGEND:
- PRIMARY MONUMENT
- REBAR & CAP
- SCRIBED X CP
- SPIKE SET
- MAG NAIL SET

STATE OF ALASKA 49TH WILLIAM H IRVING LS 13315 REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA 49TH ROBERT H. PRISTASH CIVIL ENGINEER No. 9878 REGISTERED PROFESSIONAL ENGINEER
07/01/25

SURVEY CONTROL

DATE	REVISION	BY

SCALE:
1"=20' HORIZ. (FULL SIZE) 1"=40' HORIZ. (HALF SIZE)

DESIGNED: WHI
DRAWN: WHI
CHECKED: WKR
DATE:

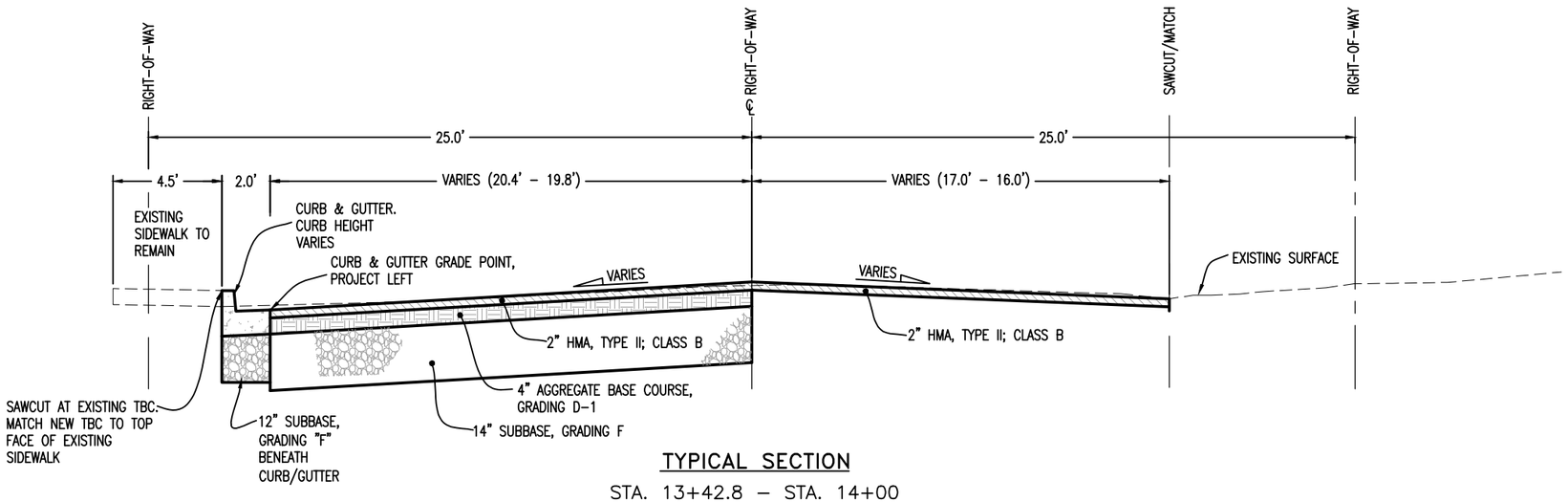
APPROVED
CITY ENGINEER
DATE

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

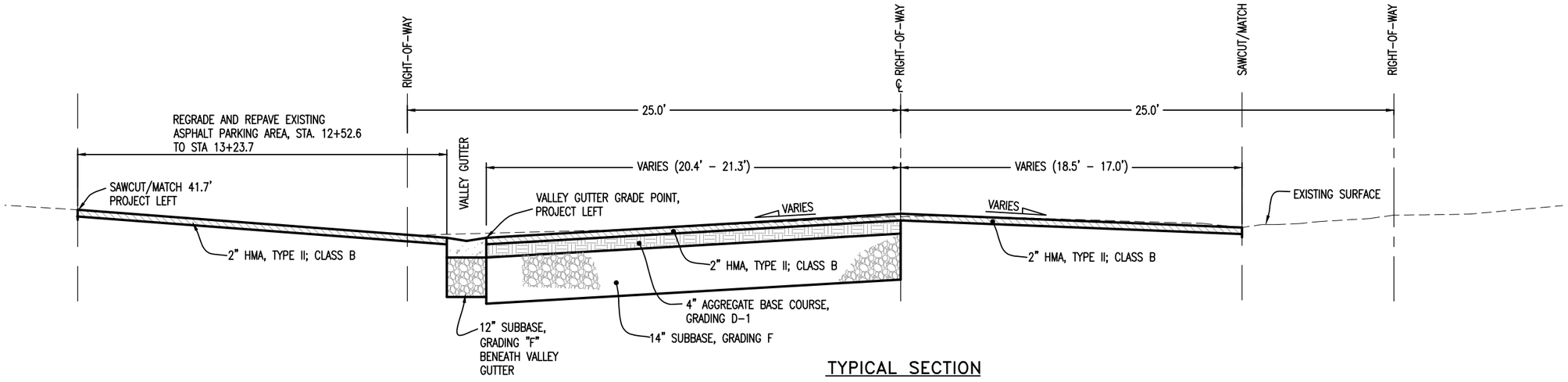
A3
OF SHEETS

P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L3Production\Survey Control 12th & Cushman-SURVEY CONTROL Mon, Jun/30/25 01:55pm



TYPICAL SECTION

STA. 13+42.8 – STA. 14+00
AREA OF CURB & GUTTER REPLACEMENT
(END Unclassified Excavation and Backfill Sta. 13+80)



TYPICAL SECTION

STA. 12+50 – STA. 13+42.8
AREA OF NEW VALLEY GUTTER
(BEGIN Unclassified Excavation and Backfill Sta. 12+70)

TYPICAL SECTIONS

STATE OF ALASKA 49TH
ROBERT H. PRISTASH
CIVIL ENGINEER
No. 9878
REGISTERED PROFESSIONAL ENGINEER
07/01/25

DATE	REVISION	BY

SCALE:
1"= 3' HORIZ., 1"= 6' HORIZ.,
1"= 1.5' VERT. 1"= 3' VERT.
(FULL SIZE) (HALF SIZE)

DESIGNED: RHP
DRAWN: WKR
CHECKED: TZ
DATE:

APPROVED
CITY ENGINEER
DATE

CITY OF FAIRBANKS ALASKA

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

B1
OF SHEETS

P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L3Production\Typical Section-12th & Cushman-TYPICAL SEC01 Mon, Jun/30/25 01:57pm

STATE FARM
612 12TH AVE

MATCH
STA:13+23.65
OFF:41.67'L
EL:443.98

REGRADE ASPHALT APRON BETWEEN VALLEY GUTTER AND GARAGE. PAVEMENT STRUCTURE BETWEEN GARAGE AND VALLEY GUTTER SHALL BE 12' SUBBASE, 2" HOTMIX.

SAWCUT/MATCH

MATCH
STA:12+55.90
OFF:41.69'L
EL:444.13

PAVING LIMITS
(TYPICAL)

GARAGE
FF=443.81

DOORWAY
FF=444.35

DOORWAY
FF=444.03

SAWCUT AT TBC. PRESERVE EXISTING SIDEWALK. REMOVE/REPLACE EXISTING C&G. MATCH NEW CURB HEIGHT TO EXISTING TOP OF SIDEWALK. CURB HEIGHT VARIES.

SPIKE
STA:12+41.36
OFF:27.01'L
20

S 83°20'43" W

SCRIBED "X"
STA:14+52.10
OFF:36.90'L
22

Cushman St

BEGIN VAL GUT GP
STA:12+52.57
OFF:21.33'L
GP:444.02

STA:12+52.32
OFF:18.01'L
EL:444.12

-0.91%

-0.48%

-0.46%

GRADE BREAK
STA:13+26.01
OFF:20.59'L
GP:443.38

VAL GUT GP/C&G GP
STA:13+42.80
OFF:20.42'L
GP:443.30

MATCH FL
STA:13+99.58
OFF:21.23'L
FL EL:442.94

CONTRACTOR TO PROTECT EXISTING MMA INLAID CROSSWALK TO REMAIN

R 12+00 R 12+50 R 13+00 R 13+50 R 14+00 R 14+50

12th Avenue

ADJUST EXISTING FLUSH WELLS

INSTALL NEW VALVE BOX

N 83°20'47" E

SAWCUT/MATCH

SAWCUT/MATCH

SAWCUT/MATCH

SI MON
STA:14+29.63
OFF:0.07'R
126

MATCH
STA:12+74.91
OFF:18.44'R
EL:444.18

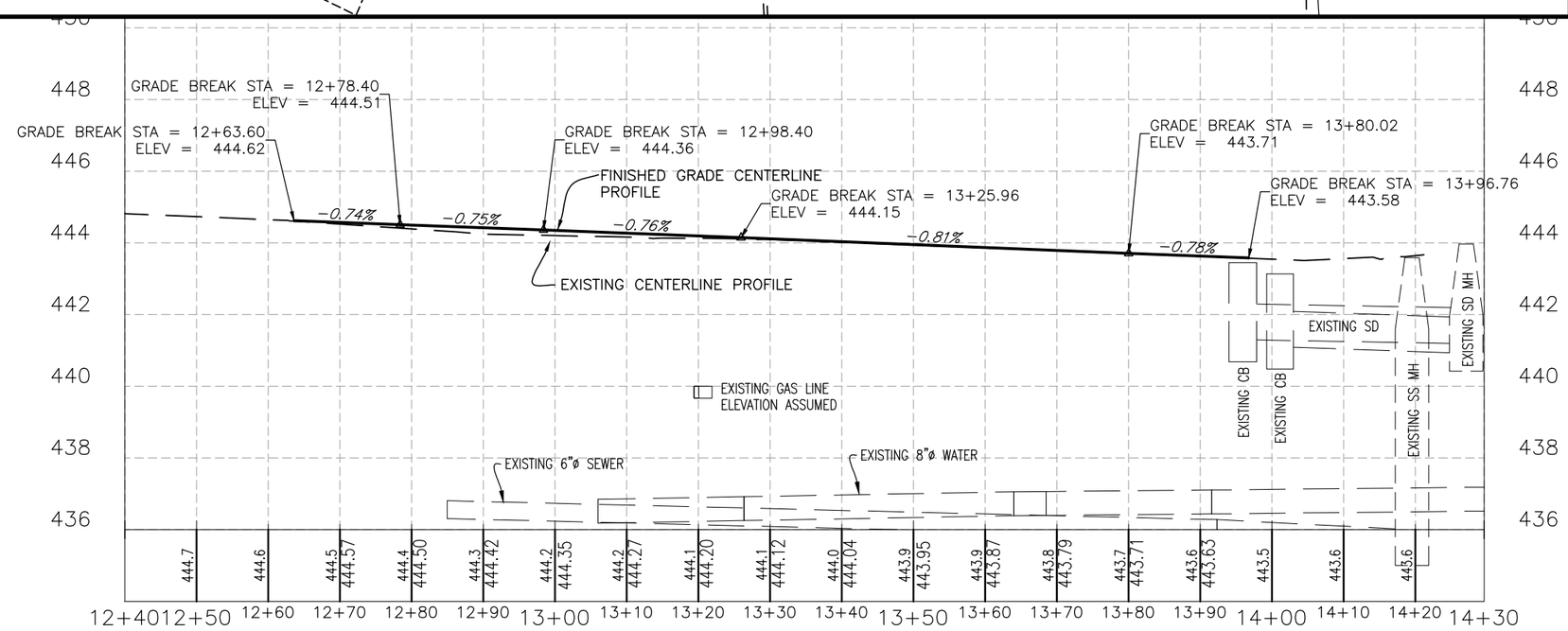
S 83°20'43" W

MATCH
STA:13+86.94
OFF:16.16'R
EL:443.51

N

GRADING

STATE OF ALASKA
49TH
ROBERT H. PRUSAK
CIVIL ENGINEER
No. 9878
REGISTERED PROFESSIONAL ENGINEER
07/01/25



DATE	REVISION	BY

SCALE:
1"=10' HORIZ., 1"=2' VERT. (FULL SIZE)
1"=20' HORIZ., 1"=4' VERT. (HALF SIZE)

DESIGNED: RHP
DRAWN: WKR
CHECKED: TZ
DATE:

APPROVED

CITY ENGINEER

DATE

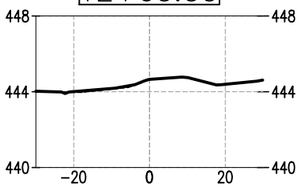
12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

F1
OF SHEETS

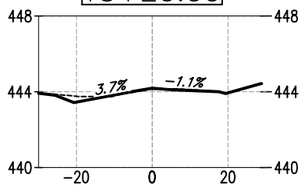
P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L3Production\P-P_ROADWAY-GRADING01 Mon, Jun/30/25 01:59pm

12+60.00



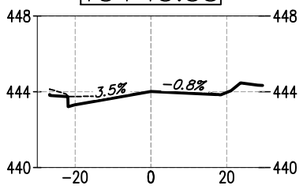
EXISTING	444.0	444.65	444.4
PROPOSED	444.01	444.65	444.40

13+20.00



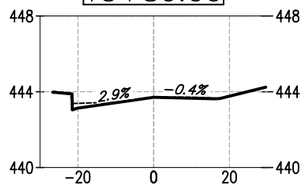
EXISTING	443.8	444.13	443.9
PROPOSED	443.46	444.19	443.93

13+43.33



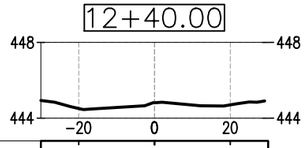
EXISTING	443.8	443.99	444.0
PROPOSED	443.31	444.01	443.97

13+80.00



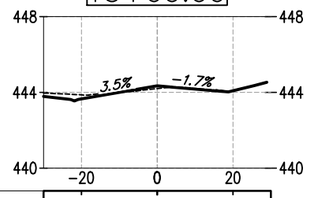
EXISTING	443.4	443.70	443.8
PROPOSED	443.13	443.71	443.77

12+40.00



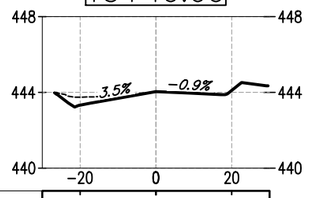
EXISTING	444.5	444.81	444.7
PROPOSED	444.51	444.81	444.70

13+00.00



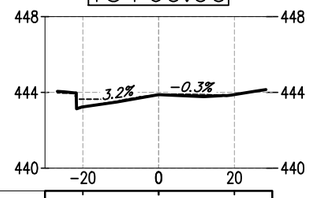
EXISTING	443.9	444.20	444.1
PROPOSED	443.65	444.35	444.09

13+40.00



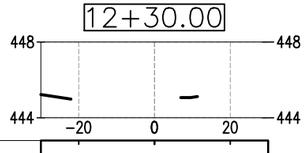
EXISTING	443.7	444.02	444.1
PROPOSED	443.33	444.04	444.11

13+60.00



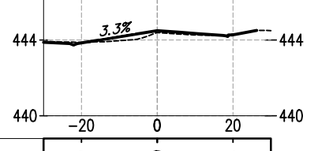
EXISTING	443.6	443.86	443.9
PROPOSED	443.23	443.88	443.88

12+30.00



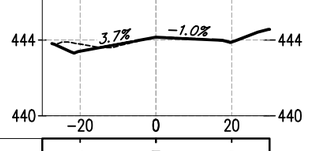
EXISTING			
PROPOSED			

12+80.00



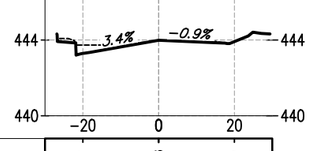
EXISTING	443.9	444.39	444.3
PROPOSED	443.84	444.50	444.28

13+26.00



EXISTING	443.8	444.11	443.9
PROPOSED	443.40	444.15	443.89

13+47.00



EXISTING	443.7	443.96	443.9
PROPOSED	443.29	443.98	443.91

CROSS SECTIONS

STATE OF ALASKA 49TH
ROBERT H. PRISTASH
CIVIL ENGINEER
No. 9878
REGISTERED PROFESSIONAL ENGINEER
07/01/25

DATE	REVISION	BY

SCALE:
1"=10' HORIZ., 1"=1' VERT. (FULL SIZE)
1"=20' HORIZ., 1"=2' VERT. (HALF SIZE)

DESIGNED:
DRAWN:
CHECKED:
DATE:

APPROVED
CITY ENGINEER
DATE

CITY OF FAIRBANKS ALASKA

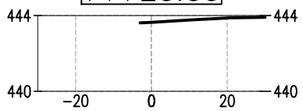
12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

F2
OF SHEETS

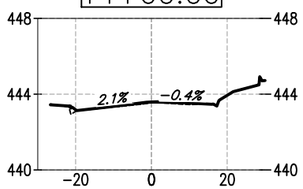
P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L1DesignObjects\$FG03-XSEC01 Mon, Jun/30/25 02:01pm

14+20.00



	-20	0	20
EXISTING		443.85	443.9
PROPOSED		443.85	443.87

14+00.00



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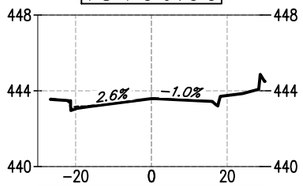
EXISTING	443.1	443.54	443.9
PROPOSED	443.16	443.58	443.94

13+96.00



	-20	0	20
EXISTING	443.2	443.58	443.7
PROPOSED	443.05	443.59	443.75

CROSS SECTIONS

STATE OF ALASKA 49TH
ROBERT H. PRISTASH
CIVIL ENGINEER
No. 9878
REGISTERED PROFESSIONAL ENGINEER
07/01/25

P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L1DesignObjects\$FG03-XSEC02 Mon, Jun/30/25 02:02pm

DATE	REVISION	BY

SCALE:
1"=20' HORIZ., 1"=4' VERT. (FULL SIZE)
1"=40' HORIZ., 1"=8' VERT. (HALF SIZE)

DESIGNED:
DRAWN:
CHECKED:
DATE:

APPROVED
CITY ENGINEER
DATE

CITY OF FAIRBANKS ALASKA

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

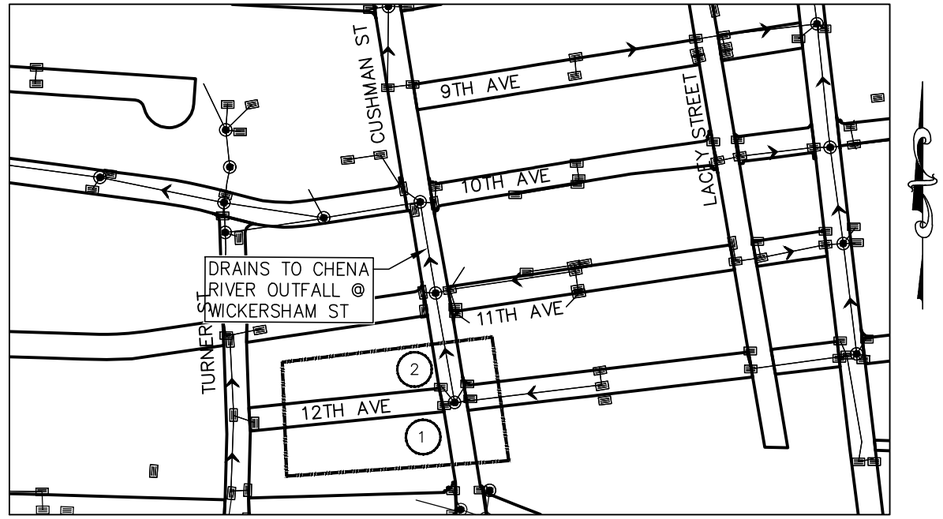
F3
OF SHEETS

PROJECT SITE INFORMATION

1. SITE FUNCTION: STORM DRAIN INSTALLATION
2. MEAN ANNUAL PRECIPITATION: 10.53 INCHES AT FAIRBANKS INTERNATIONAL AIRPORT
   SOURCE: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ak2968
3. 2-YEAR, 24-HOUR RAINFALL EVENT: 1.09 INCHES, STATION: FAIRBANKS F.O. SITE ID: 10-0215 (SOURCE:
   SOURCE: https://hdsc.nws.noaa.gov/pfds/pfds_map_ak.html
4. PROJECT AREAS ARE LISTED BELOW, MATERIAL SITES NOT INCLUDED:
   PROJECT AREA: 0.15 ACRES
   DISTURBED AREA: 0.15 ACRES
   PRE-CONSTRUCTION PERCENT IMPERVIOUS AREA: 66
   POST CONSTRUCTION PERCENT IMPERVIOUS AREA: 66
   PRE-CONSTRUCTION RUNOFF COEFFICIENT: 0.60
   POST-CONSTRUCTION RUNOFF COEFFICIENT: 0.60
5. MATERIAL SITES: MATERIALS WILL BE CONTRACTOR FURNISHED.
6. LANDSCAPE TOPOGRAPHY: VERY FLAT RESIDENTIAL DEVELOPMENT IN PROJECT CORRIDOR. EXISTING SLOPES IN THIS AREA ARE RELATIVELY FLAT WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ROADS INTO EXISTING STORM DRAIN INFRASTRUCTURE.
7. DRAINAGE PATTERNS: SURFACE DRAINAGE VIA PIPED STORM DRAIN SYSTEM FLOWS TO THE CHENA RIVER VIA EXISTING WICKERSHAM STREET OUTFALL.
8. STAGING AND STOCKPILE AREAS: CONTRACTOR MUST SEEK LOCATIONS FOR STOCKPILING MATERIAL AND STAGING AND STORAGE OF EQUIPMENT.

LEGEND

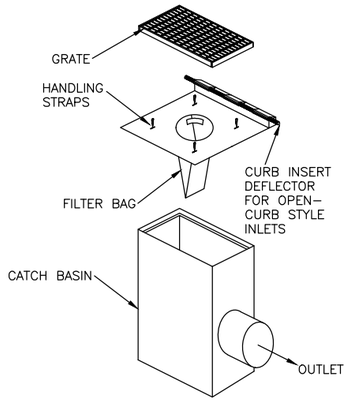
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- STORM DRAIN PIPE
- PIPE FLOW DIRECTION
- CATCH BASIN & CULVERT PROTECTION AREA
- (##) CATCH BASINs THAT REQUIRE INLET PROTECTION



4TH AVENUE STORM DRAIN MAP

ENVIRONMENTAL INFORMATION

1. RECEIVING WATERS: CHENA RIVER, FAIRBANKS MS4
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM DAILY LOAD (TDML): NONE
4. STORM SEWER / DRAINAGE SYSTEMS: CITY OF FAIRBANKS MS4 CONSISTING OF PIPED AND SURFACE WATER DRAINAGE NETWORK TO OUTFALLS AT CHENA RIVER.
5. THREATENED AND ENDANGERED SPECIES: NONE
6. HISTORICAL & CULTURAL RESOURCE PRESENCE: NONE
7. FISH & WILDLIFE HABITAT PRESENCE: ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE MIGRATORY BIRD TREAT ACT TO PREVENT THE KILLING OR TAKING OF MIGRATORY BIRDS OR ANY PART, NEST, OR EGG OF ANY SUCH BIRDS.
8. EXISTING PUBLIC WATER SYSTEM (PWS) DRINKING WATER PROTECTION AREAS:
   - PWSID: AK2310730
   - WATER SYSTEM NAME: GOLDEN HEART UTILITIES
   - PWS CONTACT INFORMATION NAME: TARIK SPEAR
     PHONE: (907) 455-4444
     EMAIL: TARIK.SPEAR@AKWATER.COM
     ADDRESS: 3691 CAMERON ST #201, FAIRBANKS, AK 99709



CATCH BASIN INLET PROTECTION DETAIL

EROSION & SEDIMENT CONTROL PLAN (ESCP) NOTES

1. THIS PROJECT IS UNDER ONE ACRE AND WILL NOT BE REQUIRED TO DEVELOP A SWPPP OR FILE AN NOI WITH ADEC. EVEN IF THIS PROJECT DOES NOT NEED PERMIT COVERAGE, EROSION AND SEDIMENT CONTROLS WILL BE REQUIRED AND WATER QUALITY WILL BE PROTECTED.

2. THIS SHEET CONTAINS A PLAN VIEW OF 12TH AVE AT CUSHMAN STREET AND ITS EXISTING STORM DRAIN SYSTEM, INCLUDING ALL KNOWN STORM DRAIN INLETS, MANHOLES, AND PIPED SECTIONS. THE CONTRACTOR SHALL SELECT AND APPLY APPROPRIATE CONTROLS TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE PIPED STORM DRAIN SYSTEM AND DISCHARGING TO THE CHENA RIVER.

3. HAVE A SPILL KIT AVAILABLE AT EACH WORK AREA WHEN HEAVY EQUIPMENT IS BEING UTILIZED.

4. ALL ENTRANCE AND EXITS WILL BE SWEPT AT A FREQUENCY TO MINIMIZE THE TRACK OUT FORM THE PROJECT OR AS DIRECTED BY THE ENGINEER.

TEMPORARY BEST MANAGEMENT PRACTICES (BMPS)

1. BEST MANAGEMENT PRACTICES (BMPS) IMPLEMENTED ON THIS PROJECT WILL UTILIZE THE SPECIFICATIONS PROVIDED IN THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION STORM WATER GUIDE OR THE DOT&PF BMP GUIDE, WHENEVER POSSIBLE.

2. INSTALL EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO THE START OF CONSTRUCTION, AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE.

3. AT A MINIMUM, INLET PROTECTION (I.E. FILTER BAGS PLACED UNDER THE INLET GRATE) SHALL BE PROVIDED AT ALL INLETS WITHIN AND IMMEDIATELY ADJACENT TO THE PROJECT LIMITS.

4. MAINTAIN BMPS ON A REGULAR BASIS INCLUDING, BUT NOT LIMITED TO, REMOVAL AND DISPOSAL OF SEDIMENT AND REPLACING DAMAGED BMPS OR AS DIRECTED BY THE ENGINEER.

HAZARDOUS MATERIAL CONTROL PLAN (HMCP)

1. SUBMIT AN ELECTRONIC COPY TO THE ENGINEER FOR APPROVAL. THE CITY WILL REVIEW THE HMCP SUBMITTAL WITHIN 14 DAYS AFTER IT IS RECEIVED.

2. PREPARE THE HMCP FOR PREVENTION OF POLLUTION FROM STORAGE, USE, CONTAINMENT, CLEANUP, AND DISPOSAL OF ALL HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS RELATED TO CONSTRUCTION ACTIVITIES AND EQUIPMENT. COMPILE MATERIAL SAFETY DATA SHEETS IN ONE LOCATION AND REFERENCE THAT LOCATION IN THE HMCP.

3. DESIGNATE A CONTRACTOR'S SPILL RESPONSE FIELD REPRESENTATIVE WITH 24 HOUR CONTACT INFORMATION. DESIGNATE A SUBCONTRACTOR SPILL RESPONSE COORDINATOR FOR EACH SUBCONTRACTOR. THE SUPERINTENDENT AND CONTRACTOR'S SPILL RESPONSE FIELD REPRESENTATIVE MUST HAVE 24 HOUR CONTACT INFORMATION FOR EACH SUBCONTRACTOR SPILL RESPONSE COORDINATOR AND THE UTILITY SPILL RESPONSE COORDINATOR.

HAULING

1. ENSURE LOADS ARE STABLE OR COVERED SO THAT NO MATERIAL ESCAPEMENT OCCURS DURING HAULING ACTIVITIES.

DATE	REVISION	BY

SCALE: NONE

DESIGNED: STAFFI
DRAWN: WKRI
CHECKED: TZ
DATE:

APPROVED

CITY ENGINEER

DATE

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

Q1
OF SHEETS

P:\12th Ave and Cushman Drainage 2024\Acad Civil3D Drawings\L3Production\Erosion & Sediment Control Plan - Part 2 SD Extension-ESCP 1 Mon, Jun/30/25 02:03pm

CONSTRUCTION REQUIREMENT NOTES

1. MAINTAIN PEDESTRIAN ACCESS TO DOORWAYS OF INSURANCE BUILDING.

TRAFFIC CONTROL GENERAL NOTES

1. THESE TRAFFIC CONTROL PLANS (TCPs) ARE GENERAL IN NATURE. CONTRACTOR TO PROVIDE DETAILED TRAFFIC CONTROL PLANS TO ENGINEER FOR APPROVAL. NO WORK SHALL BEGIN WITHOUT AN APPROVED TCP.
2. REFER TO THE ALASKA TRAFFIC MANUAL (ATM) CURRENT EDITION FOR TRAFFIC CONTROL PLAN SPECIFICATIONS.
3. IMPLEMENT ONLY ONE TRAFFIC CONTROL SETUP AT A TIME AND RESTORE FULL FUNCTION AS SOON AS PRACTICABLE.
4. ALL SIGNS AND BARRICADES SHALL MEET REQUIREMENTS OF THE CURRENT ALASKA TRAFFIC MANUAL (ATM), MUTCD, AND ALASKA SIGN DESIGN SPECIFICATION (ASDS). THE FINAL JUDGMENT IN THE SELECTION, NUMBER AND APPLICATION OF THE TRAFFIC CONTROL DEVICES AND LOCATION OF ALL TRAFFIC CONTROL MEASURES WILL REST WITH THE ENGINEER.
5. EXISTING SIGNS WHICH CONFLICT WITH CONSTRUCTION SIGNING SHALL BE COVERED DURING PROJECT.
6. CONSTRUCTION SIGNING SPECIFIED MAY BE ALTERED BY THE ENGINEER TO MEET CHANGING CONDITIONS AND TO PROTECT THE TRAVELING PUBLIC.
7. BARRICADE SETUPS SHALL HAVE 1 OPERABLE FLASHING LIGHT FOR EACH 10 FEET OF BARRICADE, WITH A MINIMUM OF 2 LIGHTS PER TYPE III BARRICADE. EXCEPT IN A TAPER WHERE ONLY THE FIRST TWO LIGHTS SHALL FLASH (TYPE A) AND THE REMAINDER SHALL BE STEADY BURN (TYPE C).
8. WHEN STREETS ARE RESTRICTED TO ONE LANE, THE MINIMUM CLEAR WIDTH SHALL BE 12' UNLESS OTHERWISE SPECIFIED ON AN APPROVED TRAFFIC CONTROL PLAN (TCP) OR AS DIRECTED BY THE ENGINEER.
9. ACCESS SHALL BE MAINTAINED FOR THE PASSAGE OF EMERGENCY VEHICLES THROUGH THE PROJECT.
10. ACCESS SHALL BE PROVIDED TO RESIDENTIAL PROPERTIES CONTINUOUSLY. CLOSURES SHALL NOT OCCUR WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. COORDINATE CLOSURE PLANS WITH THE AFFECTED PROPERTY OWNERS. NOTIFY OWNERS A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTATION OF AN APPROVED CLOSURE.
11. PEDESTRIAN FLAGGERS SHALL BE PROVIDED FOR PUBLIC ACCESS AS REQUIRED THROUGHOUT THE PROJECT LIMITS.
12. ALTERNATE ACCESS MAY ALSO BE USED AS PART OF AN APPROVED TRAFFIC CONTROL PLAN. ALTERNATE ACCESS ROUTES SHALL BE CLEARLY SIGNED.
13. TYPE "A" FLASHING WARNING LIGHTS SHALL BE USED TO MARK THE TYPE III BARRICADES, ROAD CLOSURES AND ADVANCE DETOUR SIGNING AT NIGHT.
14. CONTRACTOR SHALL INTEGRATE TRAFFIC CONTROL WITH OTHER CONSTRUCTION IN THE AREA AS APPLICABLE.
15. CONTRACTOR SHALL PROVIDE AFFECTED PROPERTY OWNERS NOTICE OF CONSTRUCTION A MAXIMUM OF 3 WEEKS AND A MINIMUM OF 1 WEEK PRIOR TO CONSTRUCTION. NOTICE TO INCLUDE NEWSPAPER ADVERTISEMENT AND FLYERS TO BUSINESS OWNERS.
16. ALL SPECIAL SIGNS SHALL BE FABRICATED OF MATERIALS CONFORMING TO SECTION 615 OF THE SPECIFICATIONS.
17. TEMPORARY DRIVING SURFACE SHALL AT A MINIMUM BE COMPACTED GRAVEL OR AS APPROVED BY THE ENGINEER.

TRAFFIC CONTROL PLAN

DATE	REVISION	BY

SCALE:
1"=50' HORIZ. (FULL SIZE) 1"=100' HORIZ. (FULL SIZE)

DESIGNED: WKR
DRAWN: WKR
CHECKED: TZ
DATE:

APPROVED
CITY ENGINEER
DATE

12TH & CUSHMAN IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-15

T1
OF SHEETS

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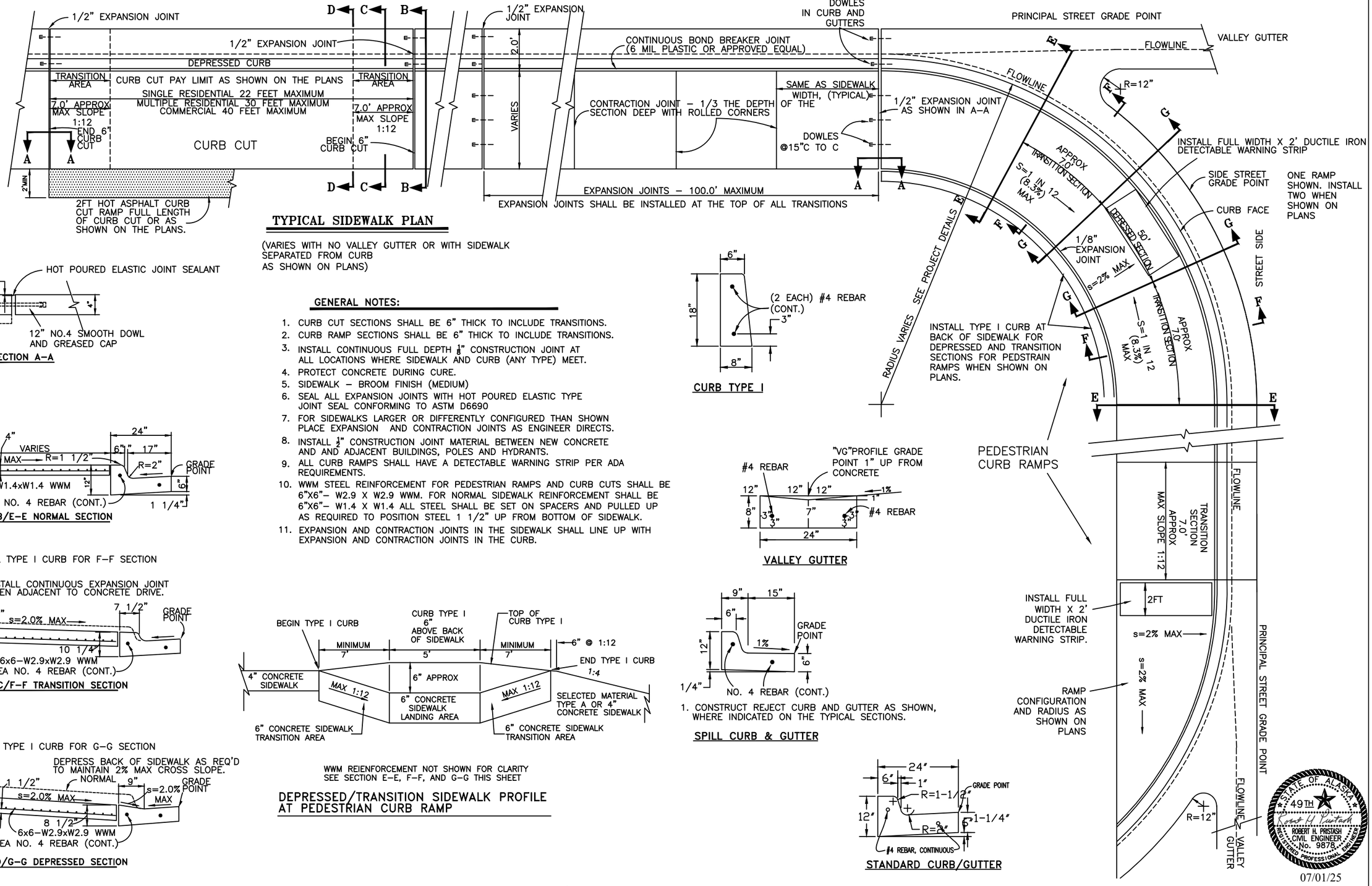
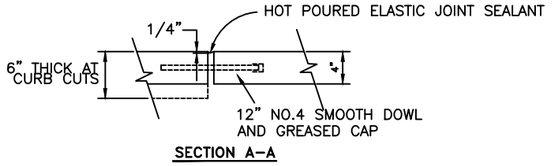


TYPICAL SIDEWALK PLAN

(VARIES WITH NO VALLEY GUTTER OR WITH SIDEWALK SEPARATED FROM CURB AS SHOWN ON PLANS)

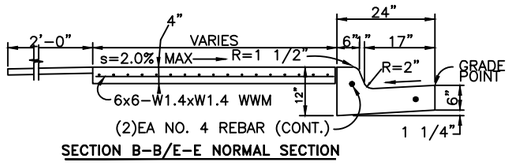


SECTION A–A

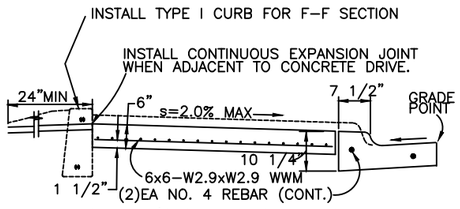
CURB TYPE I

GENERAL NOTES:

1. CURB CUT SECTIONS SHALL BE 6" THICK TO INCLUDE TRANSITIONS.
2. CURB RAMP SECTIONS SHALL BE 6" THICK TO INCLUDE TRANSITIONS.
3. INSTALL CONTINUOUS FULL DEPTH $\frac{1}{8}$" CONSTRUCTION JOINT AT ALL LOCATIONS WHERE SIDEWALK AND CURB (ANY TYPE) MEET.
4. PROTECT CONCRETE DURING CURE.
5. SIDEWALK – BROOM FINISH (MEDIUM)
6. SEAL ALL EXPANSION JOINTS WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO ASTM D6690
7. FOR SIDEWALKS LARGER OR DIFFERENTLY CONFIGURED THAN SHOWN PLACE EXPANSION AND CONTRACTION JOINTS AS ENGINEER DIRECTS.
8. INSTALL $\frac{1}{2}$" CONSTRUCTION JOINT MATERIAL BETWEEN NEW CONCRETE AND AND ADJACENT BUILDINGS, POLES AND HYDRANTS.
9. ALL CURB RAMPS SHALL HAVE A DETECTABLE WARNING STRIP PER ADA REQUIREMENTS.
10. WWM STEEL REINFORCEMENT FOR PEDESTRIAN RAMPS AND CURB CUTS SHALL BE 6"X6"– W2.9 X W2.9 WWM. FOR NORMAL SIDEWALK REINFORCEMENT SHALL BE 6"X6"– W1.4 X W1.4 ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1 1/2" UP FROM BOTTOM OF SIDEWALK.
11. EXPANSION AND CONTRACTION JOINTS IN THE SIDEWALK SHALL LINE UP WITH EXPANSION AND CONTRACTION JOINTS IN THE CURB.



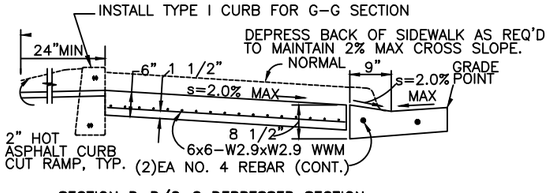
SECTION B–B/E–E NORMAL SECTION



SECTION C–C/F–F TRANSITION SECTION

WWM REIENFORCEMENT NOT SHOWN FOR CLARITY
SEE SECTION E–E, F–F, AND G–G THIS SHEET

DEPRESSED/TRANSITION SIDEWALK PROFILE AT PEDESTRIAN CURB RAMP



SECTION D–D/G–G DEPRESSED SECTION

VALLEY GUTTER

1. CONSTRUCT REJECT CURB AND GUTTER AS SHOWN, WHERE INDICATED ON THE TYPICAL SECTIONS.

SPILL CURB & GUTTER

STANDARD CURB/GUTTER

07/01/25

DATE	REVISION	BY
3/31/21	UPDATE DEP. SECTION DETAIL/DEL. RED DYE NOTE	RHP/KLL
9/26/17	UPDATE CURB CUT & ADA DETAILS	RHP
7/26/17	DELETE AASHTO AND REPLACE WITH ASTM D 6690	RHP
2/1/10	NEW CD1	RHP,GSC

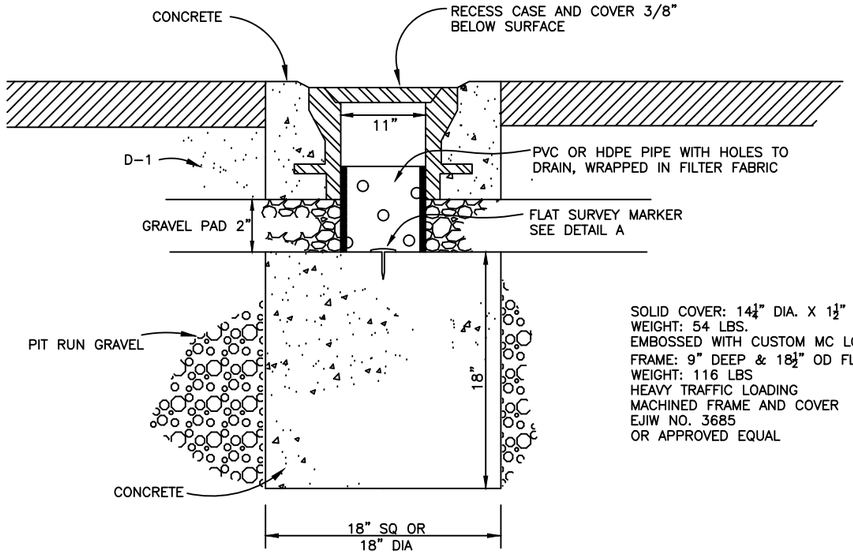
NOT TO SCALE

DESIGNED:	
DRAWN:	STAFF
CHECKED:	RHP,GSC
DATE:	3/23/07

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

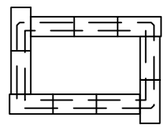
STANDARD CONCRETE DETAILS

CD1

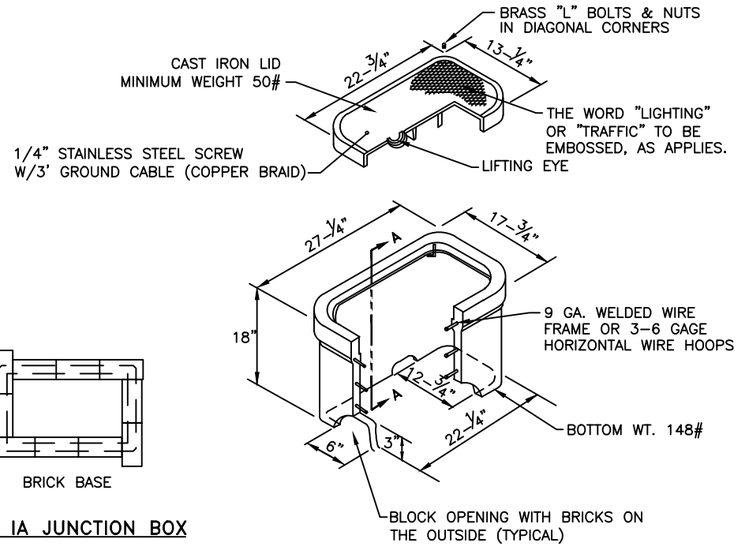


SOLID COVER: 14½" DIA. X 1½"
WEIGHT: 54 LBS.
EMBOSSED WITH CUSTOM MC LOGO
FRAME: 9" DEEP & 18½" OD FLANGE
WEIGHT: 116 LBS
HEAVY TRAFFIC LOADING
MACHINED FRAME AND COVER
EJIW NO. 3685
OR APPROVED EQUAL

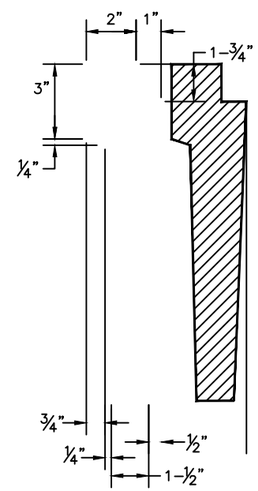
MONUMENT BASE AND CASE DETAIL



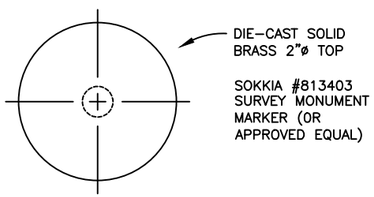
TYPE IA JUNCTION BOX



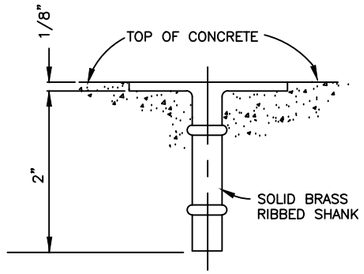
TYPE IA JUNCTION BOX DETAIL



SECTION A-A



TOP VIEW



PROFILE

FLAT SURVEY MARKER DETAIL A

07/01/25

DATE	REVISION	BY
4/19/22	UPDATED MON. CASE, DEL. STEEL, ADDED PVC/HDPE	RHP,KLL
11/19/14	JUNCTION BOX ADDED	RHP,STC
2/1/10	NEW CD2	RHP,GSC
10/27/08		RHP

NOT TO SCALE

DESIGNED:	
DRAWN:	STAFF
CHECKED:	RHP,GSC
DATE:	3/23/07

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

STANDARD CONCRETE DETAILS
MONUMENT BASE, CASE AND MARKER

CD2