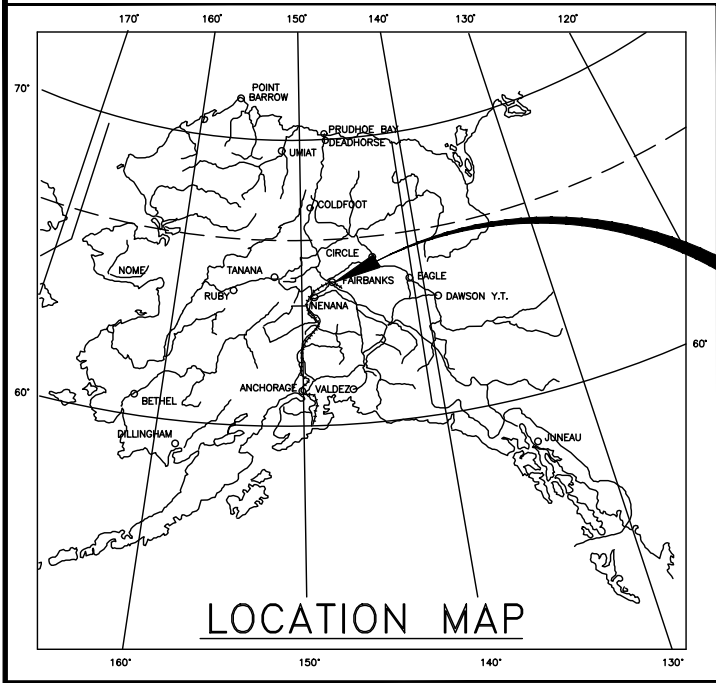


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PROJECT
LOCATION



CITY OF FAIRBANKS

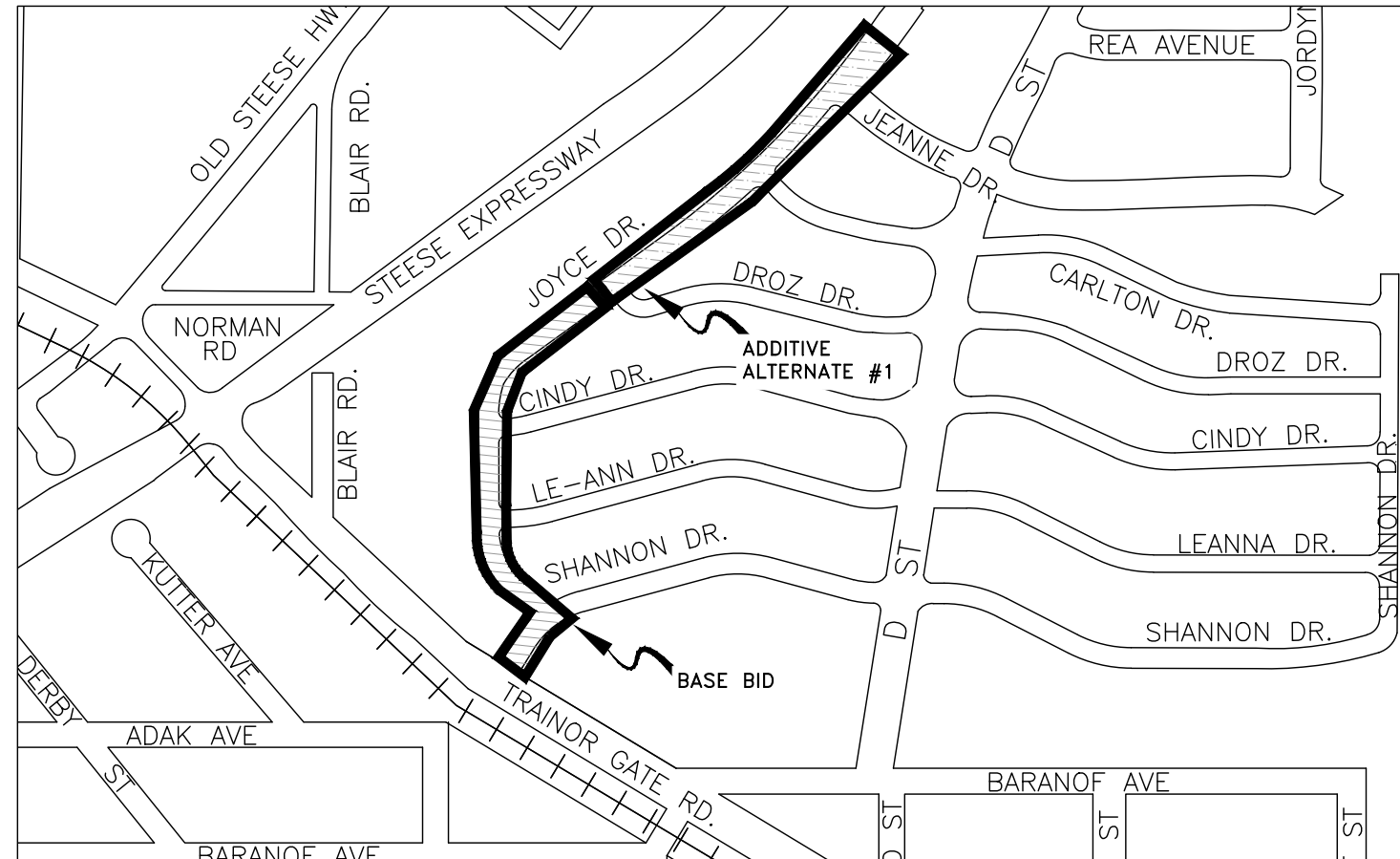
PROPOSED UTILITY PROJECT

PROJECT #: ITB-25-12

JOYCE DRIVE IMPROVEMENTS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	GENERAL NOTES & ABBREVIATIONS
A4 – A5	SURVEY CONTROL
B1 – B2	TYPICAL SECTION
C1	ESTIMATE OF QUANTITIES
D1 – D2	DETAILS
F1 – F6	ROADWAY PLAN AND PROFILE
Q1 – Q2	EROSION & SEDIMENT CONTROL PLAN
T1	TRAFFIC CONTROL PLAN
U1 – U4	STORM DRAIN PLAN AND PROFILE
CD1 – CD2	CITY OF FAIRBANKS STANDARD DETAILS – CONCRETE
SD1 – SD2	CITY OF FAIRBANKS STANDARD DETAILS – STORM DRAIN



VICINTY MAP

SCALE:

DESIGNED: RHP/KLL

APPROVED

DRAWN:

CITY ENGINEER

CHECKED: RHP

DATE

DATE: 02/26/2025



JOYCE DRIVE IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department

Project ITB-25-12

A1

OF 27
SHEETS

DATE	REVISION	BY

P:\FAST surface improvements 2025 construction\Joyce Dr\CMIL3D Dwg Files\13 Production\Legend - General Notes-LEGEND Thu, May/15/25 02:20pm

			RECOVERED		SET	EXISTING		PROPOSED	EXISTING		PROPOSED	EXISTING		PROPOSED	EXISTING		PROPOSED
PRIMARY MONUMENT						SANITARY SEWER			ROADWAY/PAVEMENT EDGE			JUNCTION BOX, TYPE IA			JUNCTION BOX, TYPE II		
CENTERLINE MONUMENT IN CASING						FUEL LINE			FENCE			JUNCTION BOX, TYPE III					
PRIMARY R.O.W. MONUMENT						GAS LINE			CURB AND GUTTER			SIGNAL FACE, VEHICULAR			SIGNAL FACE, BACKPLATE		
BEARING OBJECT						WATER LINE			DETECTABLE WARNINGS			SIGNAL FACE, LEFT TURN, BACKPLATE			SIGNAL FACE, PEDESTRIAN		
MISCELLANEOUS MONUMENT						METER, VALVE, FIRE HYDRANT			GUARDRAIL			LOOP DETECTOR			VIDEO DETECTOR		
LINE OF SIGHT MONUMENT						EXISTING STORM DRAIN (FLOW DIRECTION →)			CULVERT PIPE			RADAR DETECTOR			OPTICOM DETECTOR		
CONCRETE R.O.W. MONUMENT						PROPOSED STORM DRAIN			SIGN			PEDESTRIAN PUSH BUTTON			SIGNAL POST W/O MAST ARM		
BENCHMARK						FIBER OPTIC LINE			MAILBOX			SIGNAL POLE W/MAST ARM			SIGNAL CONTROLLER		
REBAR AND CAP						DIRECT BURIAL TELEPHONE CABLE			RAILROAD TRACKS			LOAD CENTER			LUMINAIRE		
REBAR						ELECTRIC DUCT			RAILROAD DEVICES			RIGID METAL CONDUIT					
IRON PIPE						ELECTRIC LINE (OVERHEAD)			TREE LINE								
PK NAIL						POWER POLE LINE			WATER BOUNDARY								
SPIKE						JOINT USE POWER & TELEPHONE			ORDINARY HIGH WATER LINE								
HUB AND TACK						TELEPHONE POLE LINE			FLOW CENTERLINE								
CONSTRUCTION CENTERLINE						POLE ANCHOR			FLOW DIRECTION								
MISCELLANEOUS CENTERLINE						STUB POLE (POWER OR TELEPHONE)			WETLANDS								
STATION EQUATION						ACS TELEPHONE DUCT			EXISTING BUILDINGS								
PROJECT RIGHT-OF-WAY LINE						GCI TELEPHONE DUCT			POST OR BOLLARD								
EXISTING RIGHT-OF-WAY LINE						TELEPHONE PEDESTAL			WELL OR MONITORING WELL								
EXISTING PROPERTY LINE						BURIED CABLE MARKER			SEPTIC PIPE								
CONTROLLED ACCESS LINE						PIPELINE MARKER OR VALVE			FUEL TANK FILL PIPE/VENT								
UTILITY EASEMENT LINE						CATCH BASIN OR DROP INLET			SATELLITE DISH								
TEMPORARY EASEMENT LINE (TCP OR TCE)						MANHOLE			TEST HOLE								
ACCESS OR SECTION LINE EASEMENT						SANITARY SEWER CLEAN OUT			CONIFER TREE								
PROPOSED CUT SLOPE LIMIT									DECIDUOUS TREE								
PROPOSED FILL SLOPE LIMIT									PARKING METER								
SECTION LINE									VEHICLE PLUG-IN								
1/4 SECTION LINE									SHRUB								
1/16 SECTION LINE																	
TOWNSHIP & RANGE LINE																	

LEGEND

			SCALE:	DESIGNED: RHP/KLL	APPROVED CITY ENGINEER		JOYCE DRIVE IMPROVEMENTS	CITY OF FAIRBANKS, ALASKA Engineering Department Project ITB-25-12	A2 OF 27 SHEETS
				DRAWN:					
				CHECKED: RHP					
DATE	REVISION	BY		DATE: 02/26/2025	DATE				

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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

- 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.
- SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK OR CURBING ABUTS EXISTING. SAWCUTS SUBSIDIARY TO RESPECTIVE PAY ITEMS.
- APPLY WATER FOR DUST CONTROL DAILY OR AS DIRECTED BY THE ENGINEER. PAY SUBSIDIARY TO PAY ITEM 643.0002.0000 TRAFFIC MAINTENANCE.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN STAGING AREA.
- NUMEROUS UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND GET LOCATES PRIOR TO EXCAVATION.
- PRESERVE AND PROTECT EXISTING LANDSCAPE AND FENCING IN PLACE. SUBSIDIARY TO PAY ITEM 202.0001.0000.
- 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.

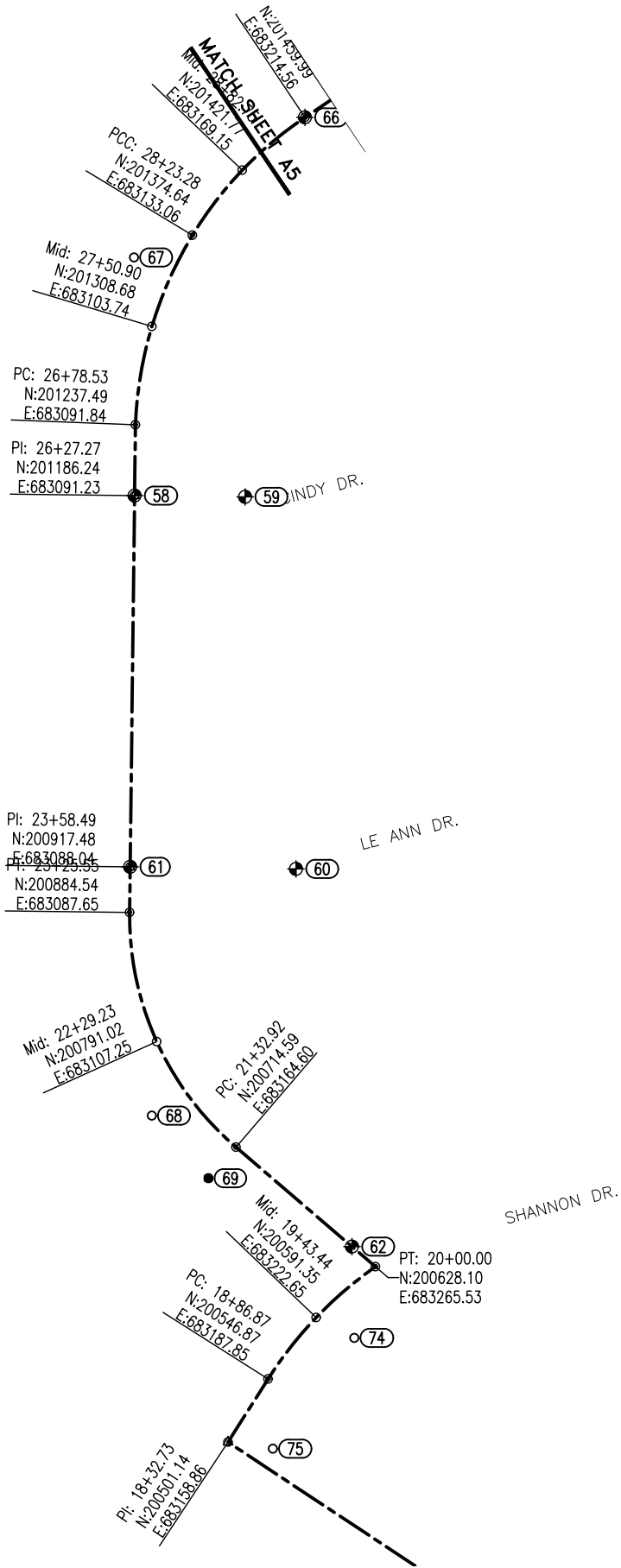
ABBREVIATIONS
AND GENERAL NOTES



05/15/2025

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				DRAWN:					OF 27
				CHECKED: RHP					SHEETS
DATE	REVISION	BY		DATE: 02/26/2025	DATE				

P:\FAST surface improvements 2025 construction\Joyce Dr\CIVIL3D Dwg Files\L3 Production\SURVEY CONTROL-Joyce Dr.-JOYCE DR. - SURVEY CONTROL Thu, May/15/25 02:20pm



HORIZONTAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	201642.61	683486.79	444.6	SI JOYCE & DROZ
51	202126.33	684192.64	444.8	PC CL JEANNE
52	202178.38	684130.55	445.3	SI JOYCE & JEANNE
54	201955.92	683915.85	444.6	SI JOYCE & CARLTON
55	201900.25	683965.74	444.0	PC CL CARLTON
56	201600.22	683684.78	443.9	PC CL DROZ
57	201605.28	683511.77	444.0	PC CL DROZ
58	201186.24	683091.23	445.4	SI JOYCE & CINDY
59	201185.32	683171.21	444.8	PC CL CINDY
60	200916.04	683207.97	445.2	PC CL LE ANN
61	200917.48	683088.04	445.7	SI JOYCE & LE ANN
62	200642.65	683248.56	445.6	SI JOYCE & SHANNON
63	201771.92	683679.26	444.9	PC CL JOYCE
64	202312.30	684264.17	444.4	RBCF TR20A 705S
66	201459.99	683214.56	444.6	PC CL JOYCE

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 "CP 10", A CHISELED "X" ON THE SOUTH RIM OF A STORM DRAIN MANHOLE AT THE BACK OF SIDEWALK ±80 EAST ALONG THE TRAINOR GATE ROW: ELEV, 44.87' NAVD88, DERIVED FROM MULTIPLE AVERAGED STATIC GNSS O.P.U.S. SOLUTIONS. TBMS ON SITE ESTABLISHED USING DIFFERENTIAL LEVELS TO FIRE HYDRANT "X" BOLTS, AND CHISELED X MARKS ON MANHOLE RIMS.

GENERAL SURVEY NOTES

PROTECT IN PLACE EXISTING PROPERTY CORNERS

SURVEY CONTROL



JOYCE DRIVE IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-12

A4

OF 27
SHEETS

DATE	REVISION	BY

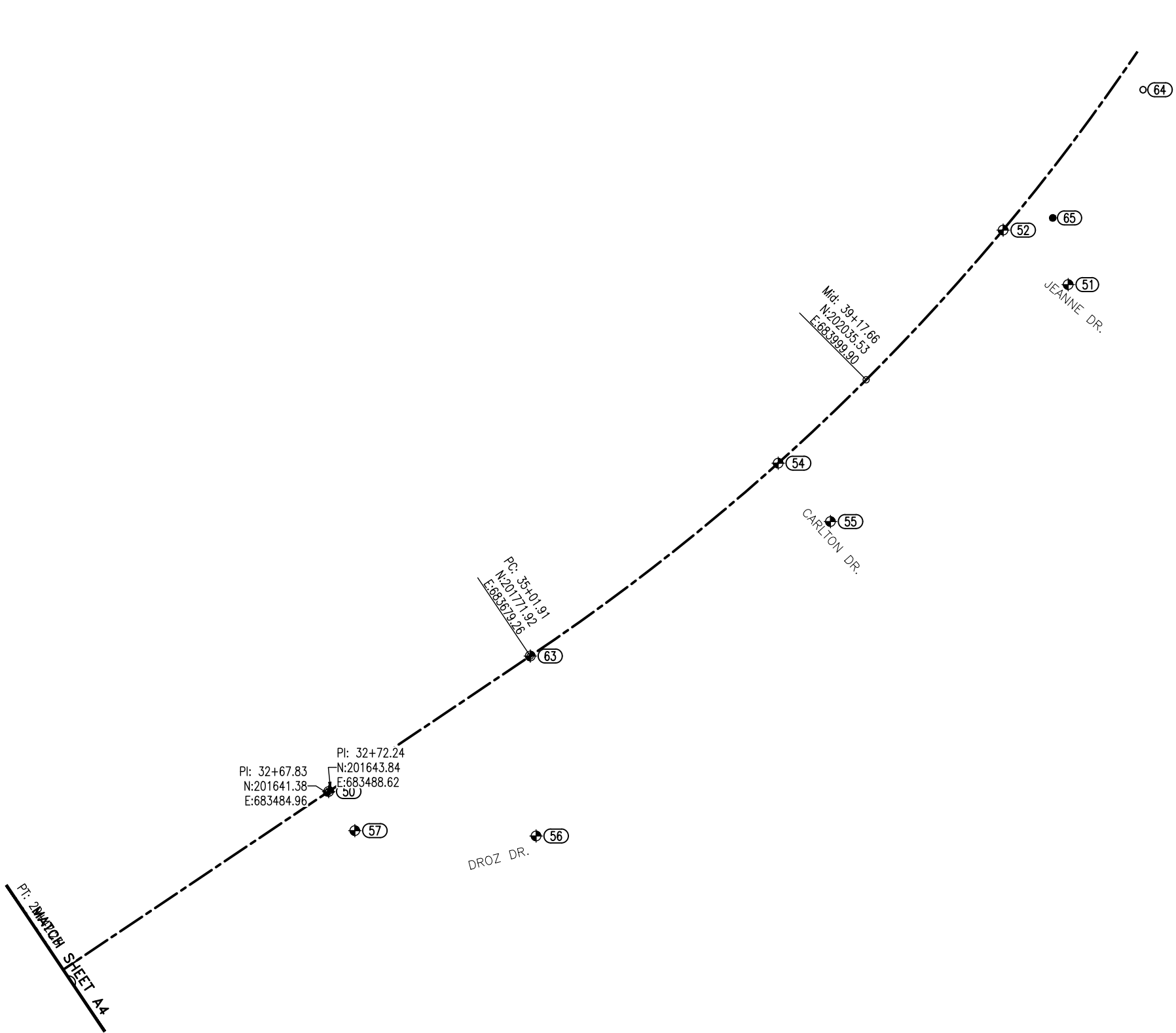
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(FULL SIZE)
1"=80' HORIZ.,
(HALF SIZE)

DESIGNED: RHP/KLL
DRAWN:
CHECKED: RHP
DATE: 02/26/2025

APPROVED

CITY ENGINEER
DATE

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DATE	REVISION	BY

SCALE:
1"=40' HORIZ.,
(FULL SIZE)
1"=80' HORIZ.,
(HALF SIZE)

DESIGNED: RHP/KLL
DRAWN:
CHECKED: RHP
DATE: 02/26/2025

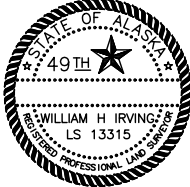
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CITY ENGINEER
DATE



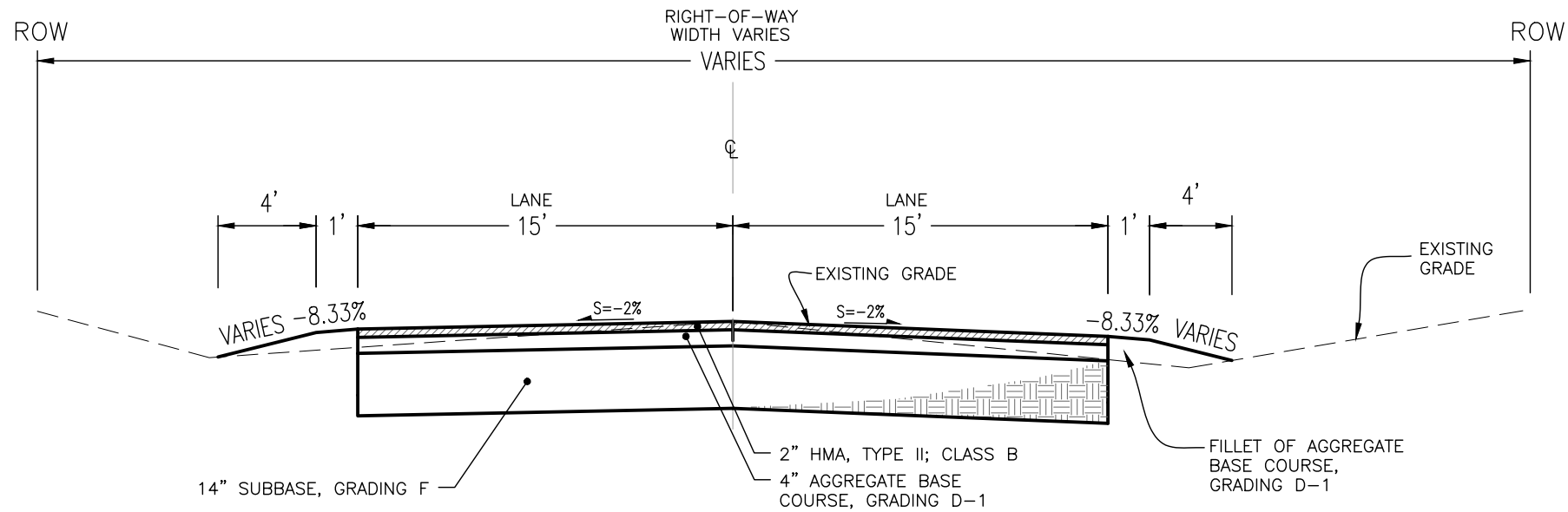
JOYCE DRIVE IMPROVEMENTS

SURVEY CONTROL

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-12

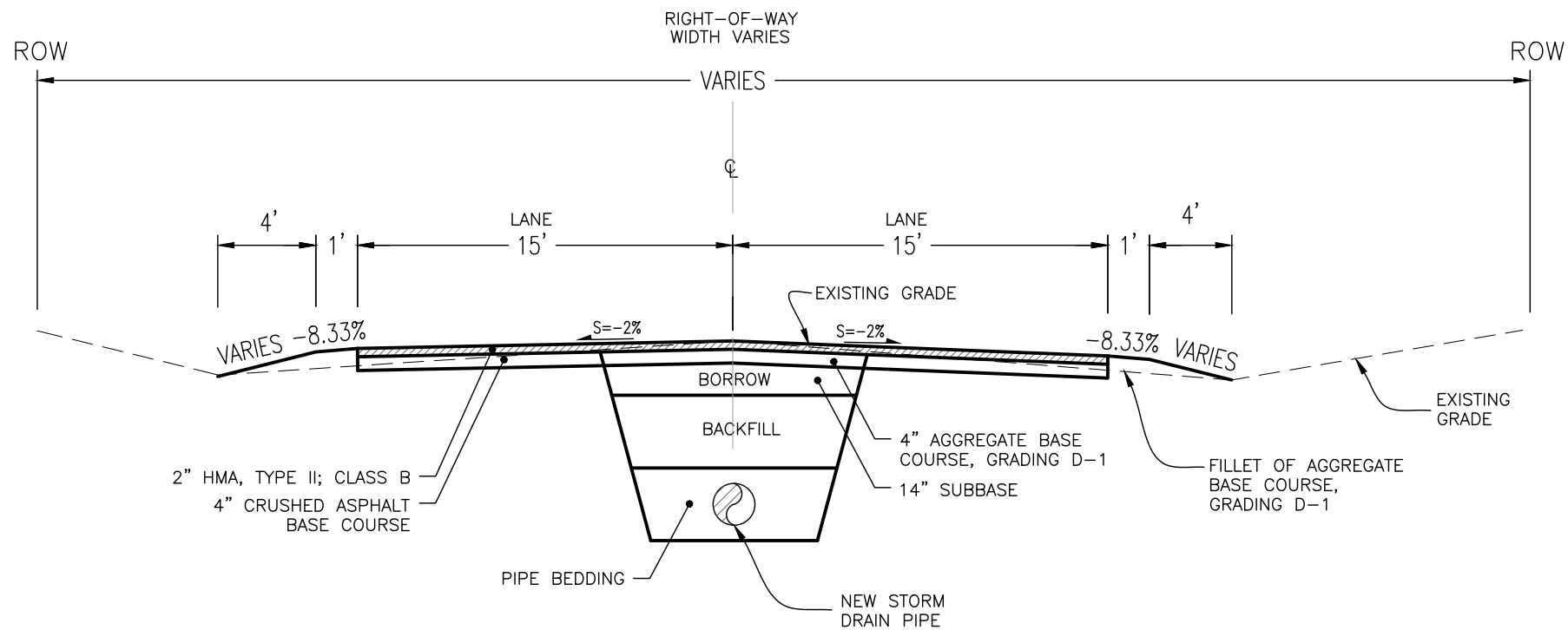


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TYPICAL SECTION 2

SHANNON DRIVE TO CINDY DRIVE (STA:20+00 TO STA:26+20)



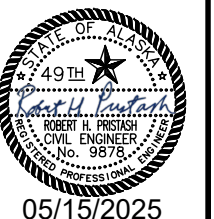
TYPICAL SECTION 1

TRAINOR GATE ROAD TO JOYCE DRIVE (STA:18+40 TO STA:20+00)
CINDY DRIVE TO END OF NEW STORM DRAIN (STA:26+20 TO STA:30+60)

TYPICAL SECTION NOTES

1. SAW CUT ASPHALT DRIVEWAYS AND PAVE ALL DRIVEWAYS FROM ROADWAY TO LIMITS DEFINED IN DRIVEWAY TABLE.
2. CROSS SECTIONS WILL BE PROVIDED AS REQUESTED.
3. A PORTION OF BEDDING SOURCE MAY BE FROM PROJECT EXCAVATION, AS APPROVED BY THE ENGINEER.

TYPICAL SECTION



05/15/2025

SCALE:

DESIGNED: RHP/KLL

APPROVED

DRAWN:

CITY ENGINEER

CHECKED: RHP

DATE

DATE: 02/26/2025



JOYCE DRIVE IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department

Project ITB-25-12

B1

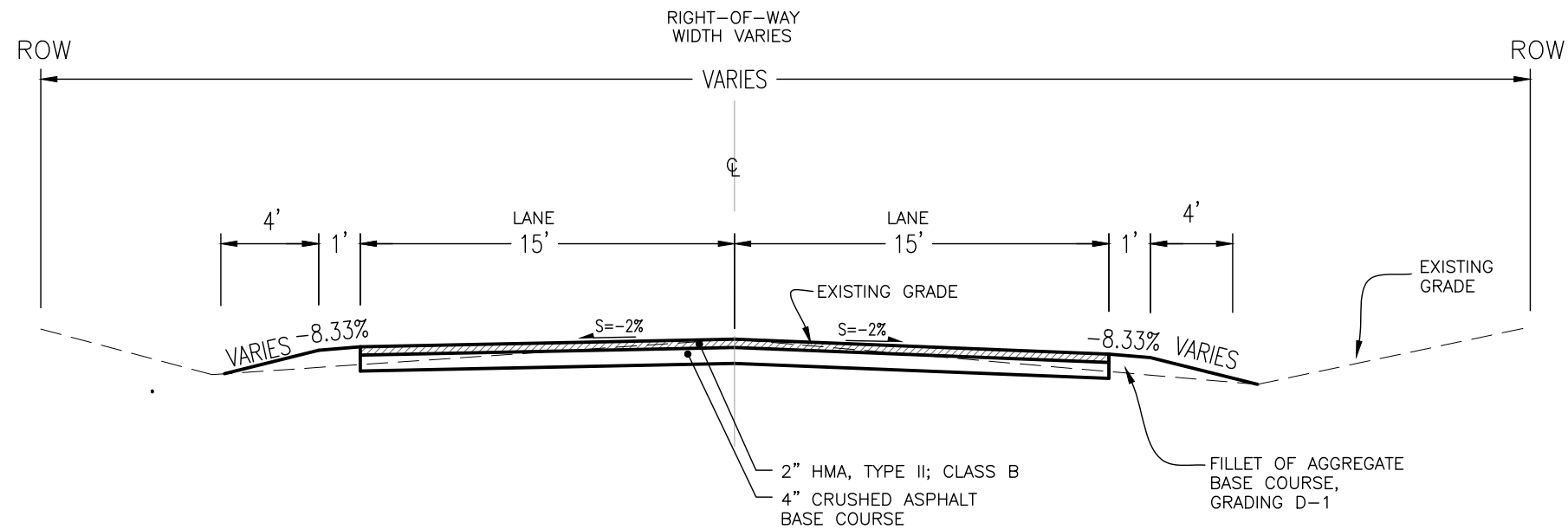
OF 27
SHEETS

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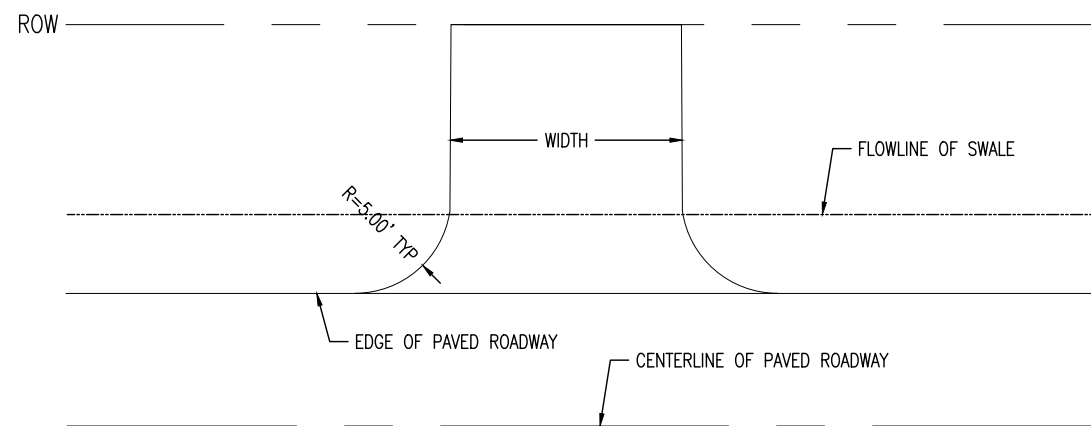
TYPICAL SECTION NOTES

1. SAW CUT ASPHALT DRIVEWAYS AND PAVE ALL DRIVEWAYS FROM ROADWAY TO LIMITS DEFINED IN DRIVEWAY TABLE.
2. CROSS SECTIONS WILL BE PROVIDED AS REQUESTED.

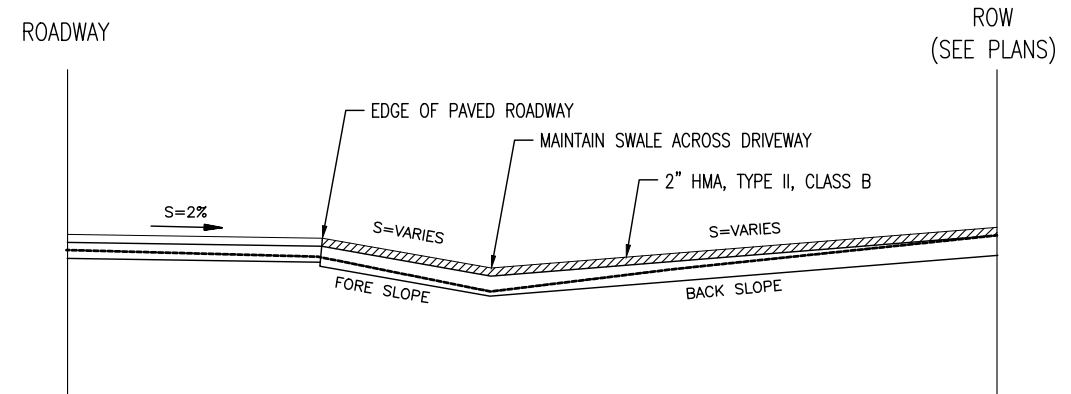
TYPICAL SECTION 3

ADDITIVE ALTERNATE

END OF NEW STORM DRAIN TO END OF PROJECT (STA:30+60 TO STA:42+40)



DRIVEWAY PLAN



DRIVEWAY PROFILE

DRIVEWAY DETAIL

NOTES

1. BACK SLOPE RECONSTRUCTION NOT REQUIRED EXCEPT AT DRIVEWAYS, SEE DRIVEWAY DETAIL
2. THE DRIVEWAY PAVEMENT STRUCTURE SHALL BE 2" HMA, TYPE II, CLASS B.
3. SEE DRIVEWAY TABLE SHEET D2

TYPICAL SECTION



05/15/2025

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				CHECKED: RHP					
				DATE: 02/26/2025					
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ESTIMATE OF QUANTITIES – BASE BID			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	1650
301.0001.00D1	AGGREGATE BASE COURSE GRADING D–1	TON	935
304.0001.000F	SUBBASE, GRADING F	TON	2885
308.0001.0000	CRUSHED ASPHALT BASE COURSE	SQUARE YARD	2490
401.0001.002B	HMA, TYPE II; CLASS B	TON	655
401.0004.0000	ASPHALT BINDER, GRADE PG 52–28	TON	36
603.0021.0012	CORRUGATED POLYETHYLENE PIPE 12 INCH	LINEAR FOOT	965
603.0021.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LINEAR FOOT	610
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LINEAR FOOT	285
604.0001.0000	STORM SEWER MANHOLE, 48 INCH	EACH	7
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	1
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	1
604.0005.000A	INLET, TYPE A	EACH	16
626.2014.0000	ADJUST FLUSHWELL	EACH	2
639.0001.0000	DRIVEWAY	EACH	22
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642.0006.0000	REPLACE EXISTING WITH PRIMARY MONUMENT	EACH	4
642.0010.0000	MONUMENT CASE	EACH	4
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
671.2000.0000	SPEED HUMP	EACH	3

ESTIMATE OF QUANTITIES – ADDITIVE ALTERNATE 1			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
308.0001.0000	CRUSHED ASPHALT BASE COURSE	SQUARE YARD	5250
401.0001.002B	HMA, TYPE II; CLASS B	TON	595
401.0004.0000	ASPHALT BINDER, GRADE PG 52–28	TON	33
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	3
626.2014.0000	ADJUST FLUSHWELL	EACH	4
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	3
639.0001.0000	DRIVEWAY	EACH	26
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642.0006.0000	REPLACE EXISTING WITH PRIMARY MONUMENT	EACH	5
642.0010.0000	MONUMENT CASE	EACH	5
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
671.2000.0000	SPEED HUMP	EACH	2

NOTES

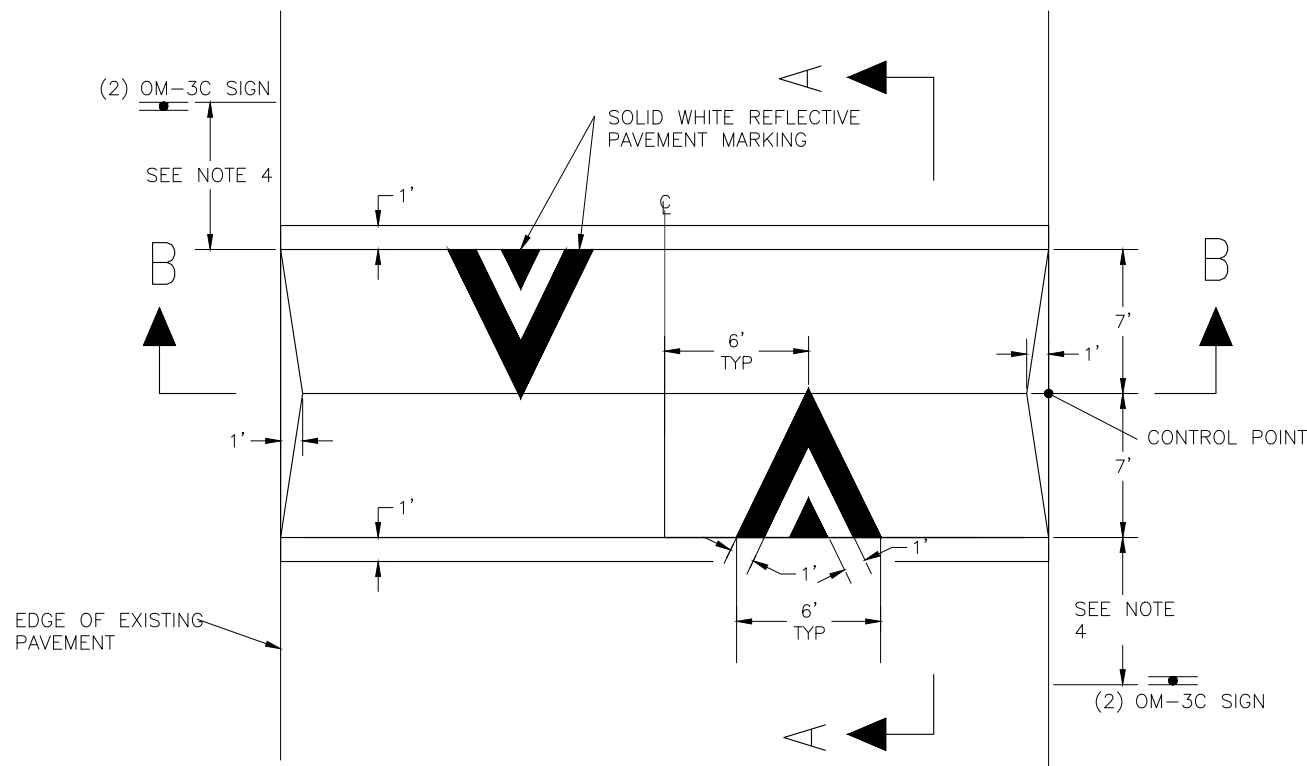
1. CITY OF FAIRBANKS TO PROVIDE ALL STORM DRAIN PIPE. CONTRACTOR TO PICK UP AT THE CITY OF FAIRBANKS PUBLIC WORKS YARD LOCATED AT 2121 PEGER ROAD AND DELIVER TO CONSTRUCTION SITE.

ESTIMATING FACTORS		
ITEM NO.	PAY ITEM	FACTOR
301.0001.00D1	AGGREGATE BAS COURSE GRADING D–1	145 LB / CF
401.0001.002B	HMA, TYPE II; CLASS B	150 LB / CF
401.0004.0000	ASPHALT BINDER, GRADE PG 52–28	5.5% WEIGHT OF 401.0001.002B

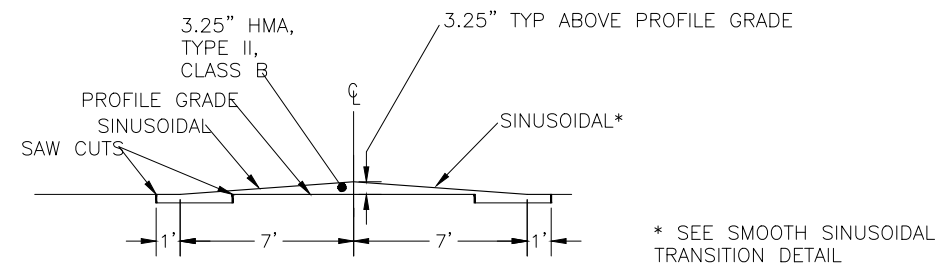


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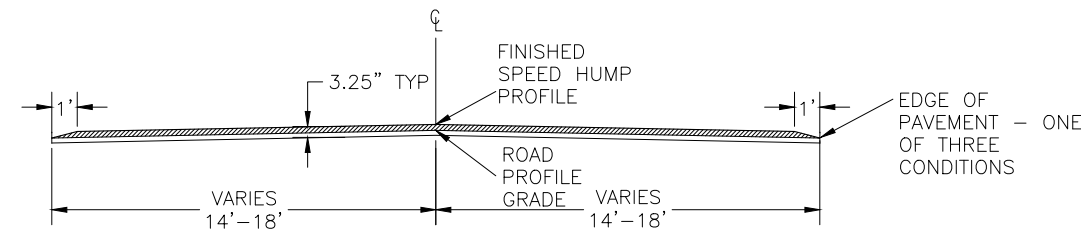
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				CHECKED: RHP					SHEETS
DATE	REVISION	BY		DATE: 02/26/2025	DATE				



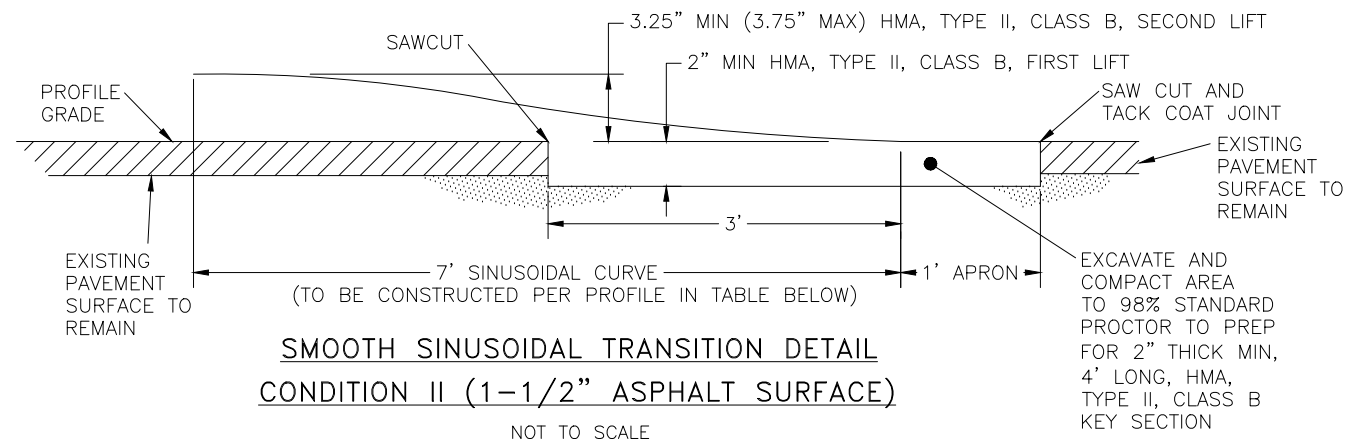
PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



SMOOTH SINUSOIDAL TRANSITION DETAIL
CONDITION II (1-1/2" ASPHALT SURFACE)

NOT TO SCALE

DISTANCE (FEET)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
FINISHED HEIGHT (INCHES)	0.00	0.00	0.00	0.05	0.19	0.41	0.70	1.05	1.43	1.82	2.20	2.55	2.84	3.06	3.20	3.25	3.25

SPEED HUMP NOTES

1. SPEED HUMPS SHALL BE 16' LONG MEASURED ALONG CENTERLINE, INCLUDING A 1-FOOT APRON ON EACH END.
2. RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
3. MARKINGS ARE SUBSIDIARY TO PAY ITEM 671 SPEED HUMP. EACH SYMBOL IS 16.24 SQUARE FEET.
4. INSTALL PERFORATED STEEL SIGN POSTS PER ALASKA TRAFFIC MANUAL. REMOVE & REINSTALL EXISTING OBJECT MARKER SIGN (OM-3C) AS REEQUIRED FOR SD INSTALLATION SUBSIDIARY TO RESPECTIVE 603 PAY ITEMS.
5. PRIOR TO PAVING SPEED HUMPS, THE BASE COURSE SHALL BE GRADED AND RECOMPACTED TO 98% OF THE STANDARD PROCTOR.



SPEED HUMP
DETAILS

05/15/2025

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-12

D1
OF 27
SHEETS



JOYCE DRIVE IMPROVEMENTS

SCALE: _____
DESIGNED: RHP/KLL
DRAWN: _____
CHECKED: RHP
DATE: 02/26/2025
APPROVED _____
CITY ENGINEER
DATE _____

DATE	REVISION	BY

DRIVEWAY TABLE – JOYCE DR (BASE BID)								
DRIVEWAY	STATION	OFFSET		WIDTH (FT)	ADDRESS	SURFACE (EXISTING)	PAVEMENT/STRUCTURE (PROPOSED)	LIMITS
		LT	RT					
DW1	18+73		X	17	269 SHANNON DR	GRAVEL	2” HMA	2FT APRON
DW2	19+35		X	20	269 SHANNON DR	GRAVEL	2” HMA	2FT APRON
DW3	19+97		X	51	279 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW4	21+07	X		30	802 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW5	21+65	X		22	808 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW6	21+60		X	39	278 SHANNON DR	GRAVEL	2” HMA	2FT APRON
DW7	22+61	X		48	812 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW8	23+26	X		60	820 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW9	23+76	X		31	900 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW10	24+56	X		17	904 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW11	24+67		X	29	905 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW12	25+14	X		28	908 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW13	25+38		X	44	907 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW14	26+27	X		20	916 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW15	26+65	X		18	1000 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW16	27+39	X		29	1004 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW17	27+49		X	42	1001 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW18	28+03	X		15	1008 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW19	28+86	X		30	1012 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW20	28+84		X	29	1007 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW21	29+61	X		21	1018 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW22	29+73		X	31	1016 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW

- NOTE
- ALL EXISTING ASPHALT PAVEMENT TO BE REMOVED SHALL BE DELIVERED TO THE CITY OF FAIRBANKS PUBLIC WORKS YARD AT 2121 PEGER ROAD. PAY SUBSIDIARY TO ITEM 202.0001.0000.
 - INSTALL 5FT RADIUS ON DRIVEWAY APRONS PER DRIVEWAY DETAIL SHEET B2.

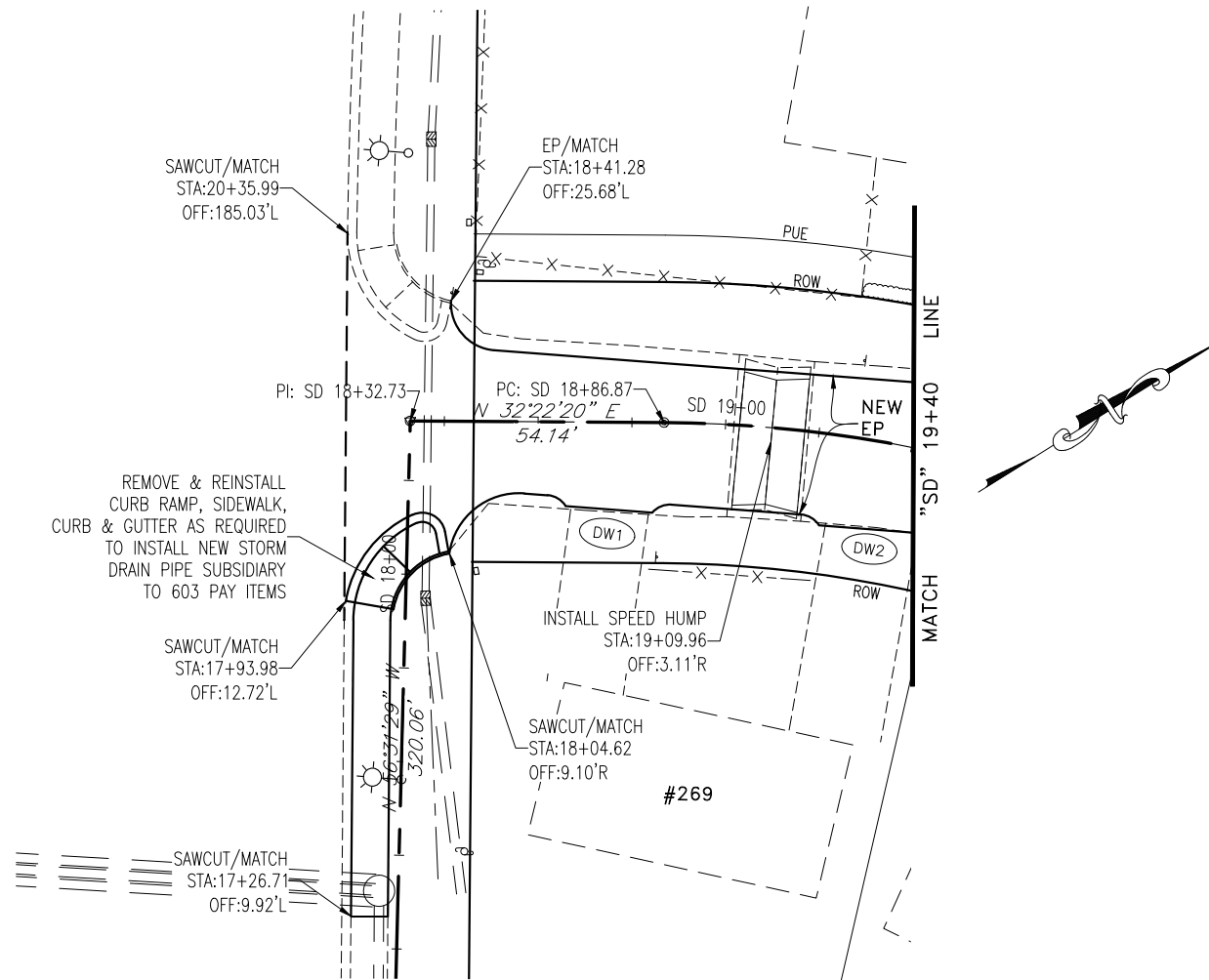
DRIVEWAY TABLE – JOYCE DR (ADDITIVE ALTERNATIVE)								
DRIVEWAY	STATION	OFFSET		WIDTH (FT)	ADDRESS	SURFACE (EXISTING)	PAVEMENT/STRUCTURE (PROPOSED)	LIMITS
		LT	RT					
DW23	30+83	X		18	1022 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW24	30+83		X	19	1021 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW25	31+72	X		20	1030 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW26	31+68		X	33	1029 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW27	32+07		X	25	303 DROZ DR	ASPHALT	2” HMA	PAVE TO ROW
DW28	32+21	X		32	1036 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW29	33+38	X		28	1106 JOYCE DR	ASPHALT	2” HMA	PAVE TO EXISTING CONCRETE
DW30	33+81	X		19	1110 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW31	34+16		X	22	1107 JOYCE DR	CONCRETE	2” HMA	PAVE TO EXISTING CONCRETE
DW32	35+01		X	29	1117 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW33	35+17	X		23	1114 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW34	35+49		X	18	1127 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW35	35+81	X		23	1120 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW36	36+63	X		23	1128 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW37	36+70		X	18	1131 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW38	37+42	X		25	1132 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW39	37+45		X	21	1137 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW40	38+14	X		28	1214 JOYCE DR	GRAVEL	2” HMA	PAVE TO ROW
DW41	38+55		X	23	1211 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW42	39+34		X	16	1225 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW43	39+42	X		23	1230 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW44	40+16	X		18	1240 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW45	40+46		X	18	1241 JOYCE DR	GRAVEL	2” HMA	2FT APRON
DW46	41+13	X		21	1250 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW47	41+46	X		19	1316 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW
DW48	42+25		X	30	1227 JOYCE DR	ASPHALT	2” HMA	PAVE TO ROW

DRIVEWAY TABLE
DETAILS

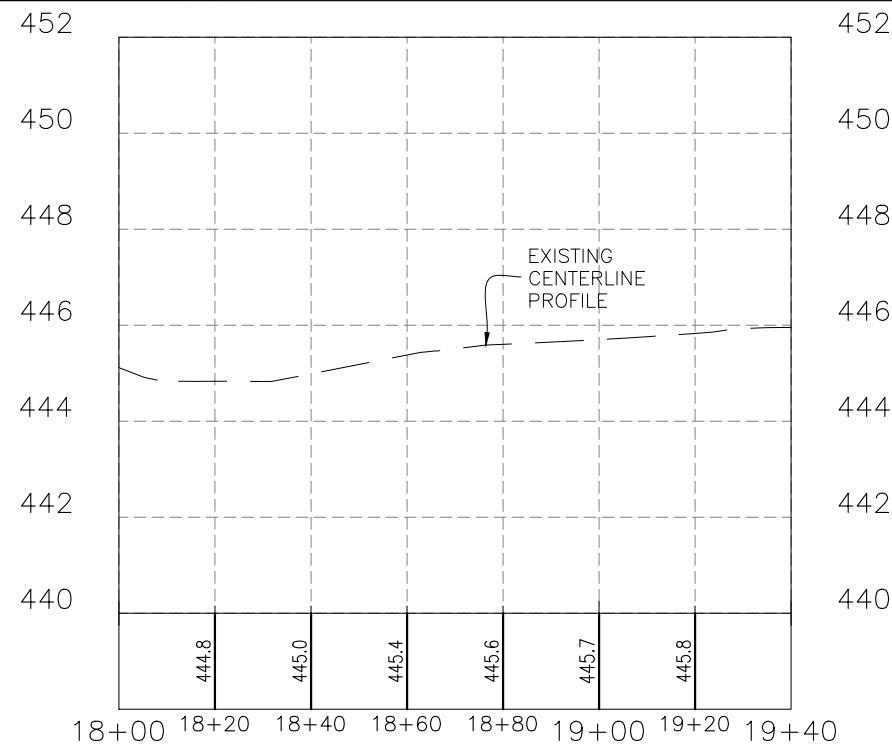


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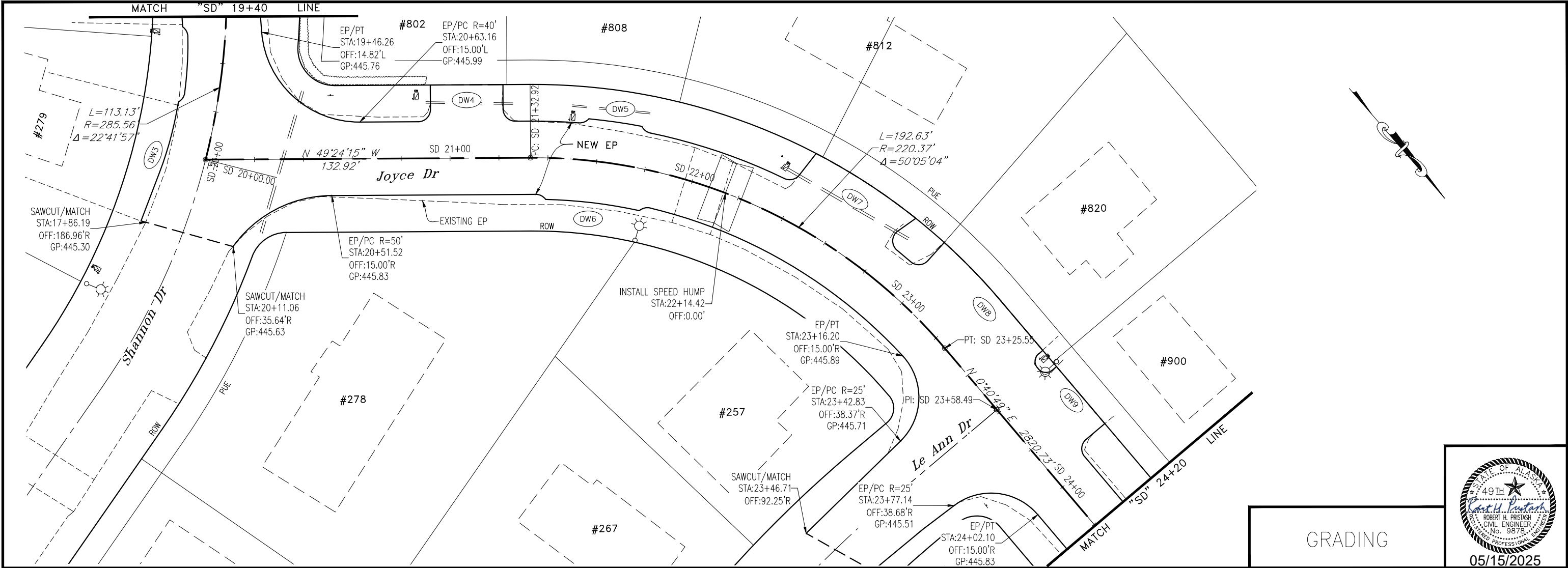
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				DRAWN:									
				CHECKED: RHP	CITY ENGINEER								
DATE	REVISION	BY		DATE: 02/26/2025									



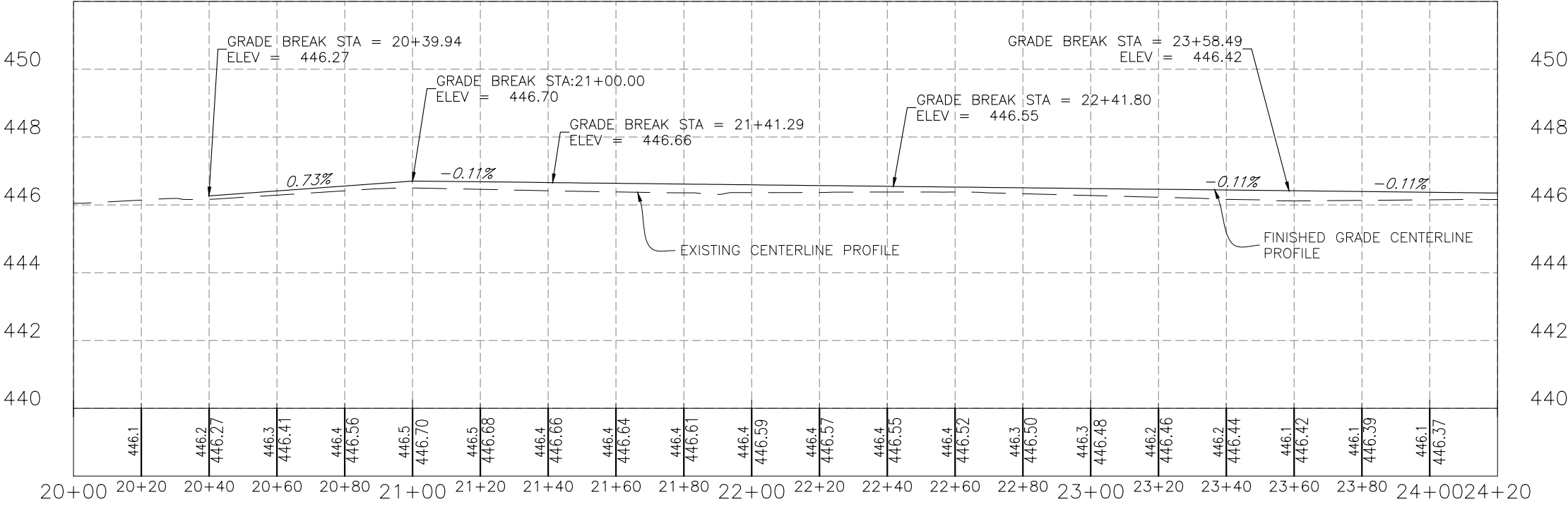
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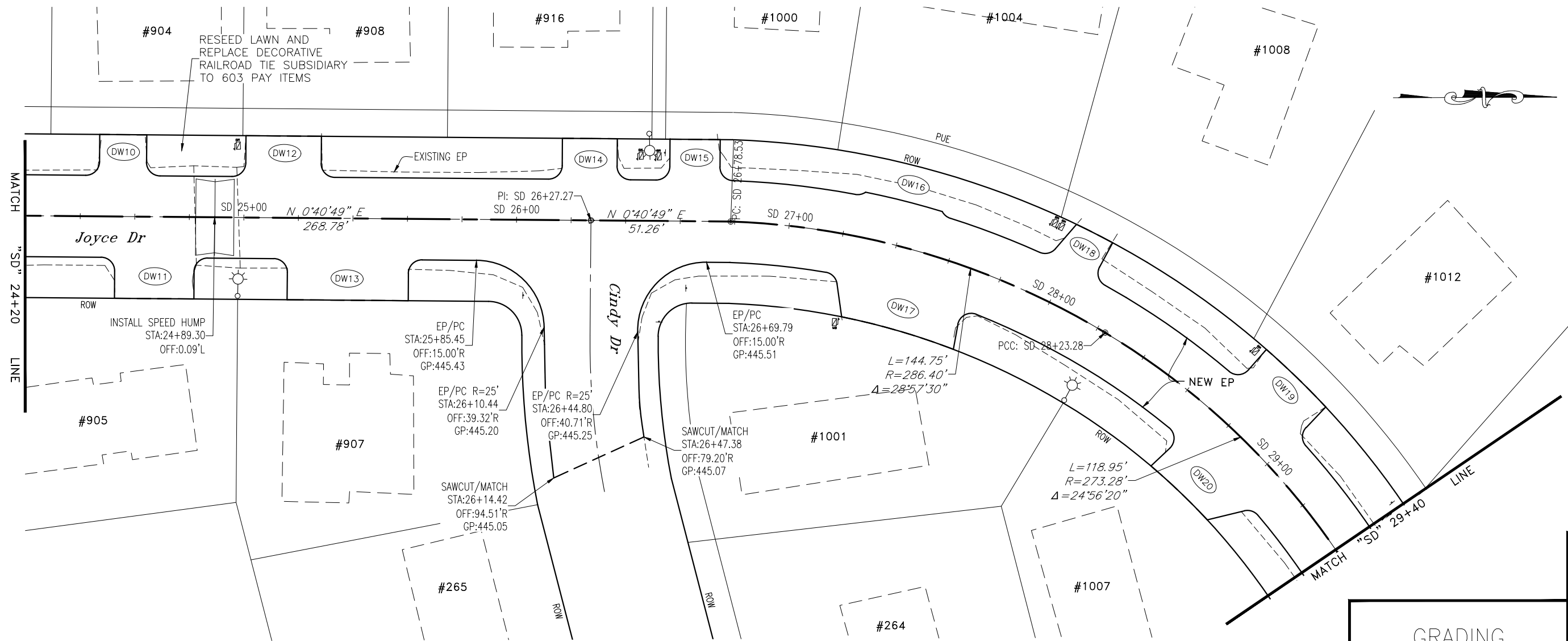


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1"=20' HORIZ., 1"=2' VERT. (FULL SIZE)	DRAWN:					OF 27 SHEETS
1"=40' HORIZ., 1"=4' VERT. (HALF SIZE)	CHECKED: RHP	CITY ENGINEER				
	DATE: 02/26/2025	DATE				



GRADING

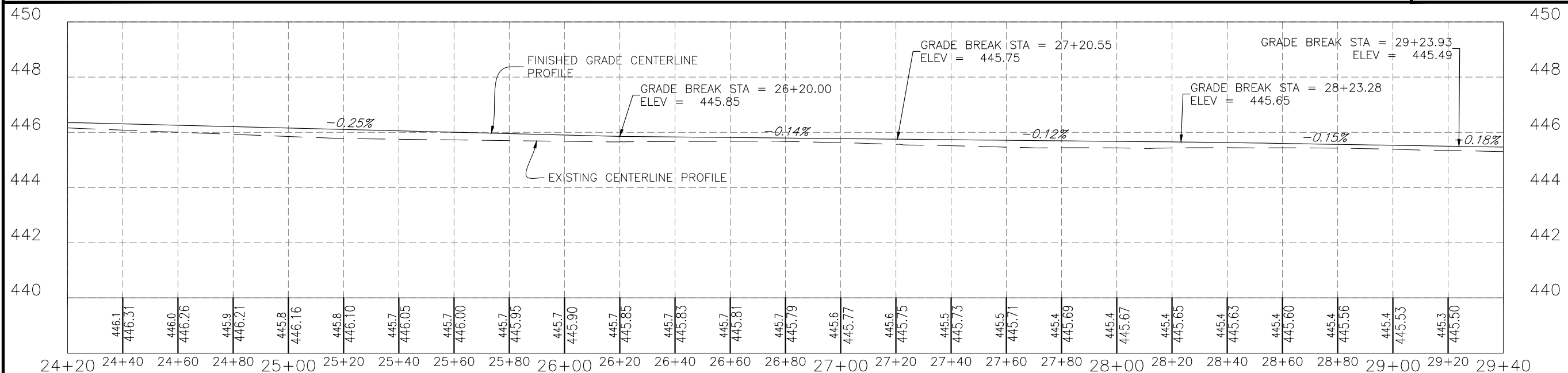




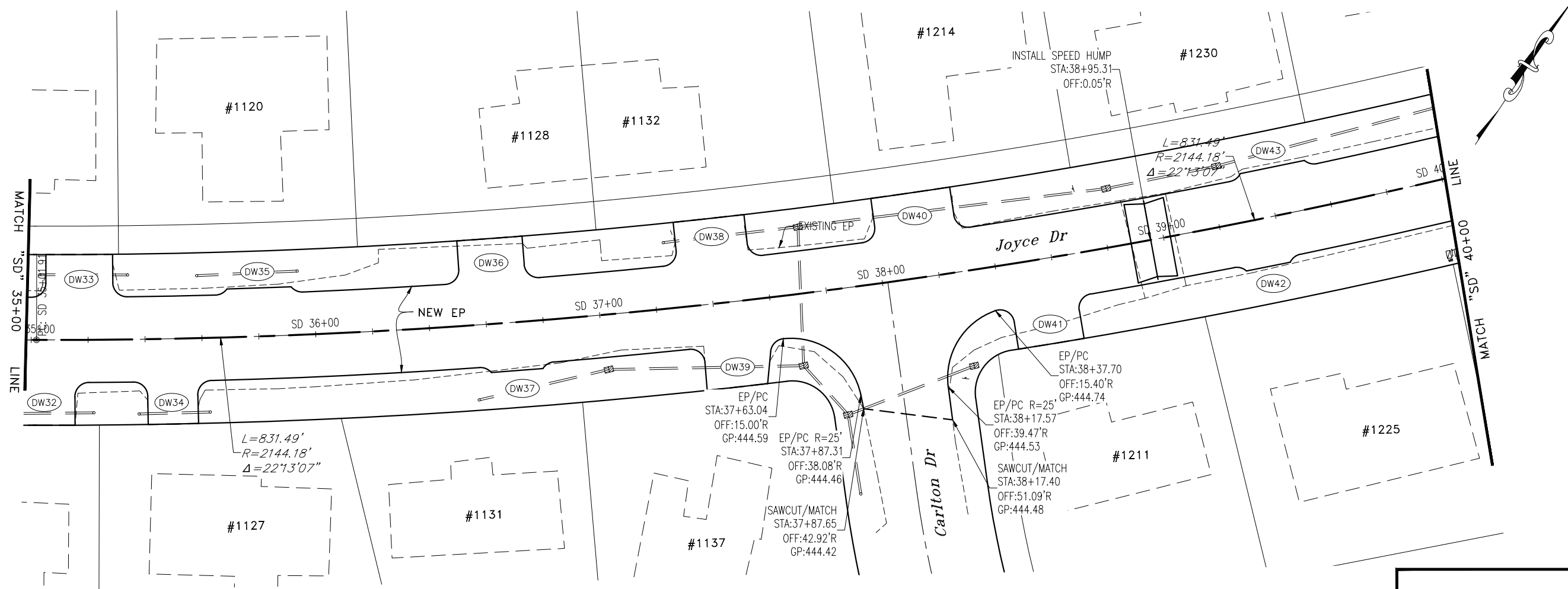
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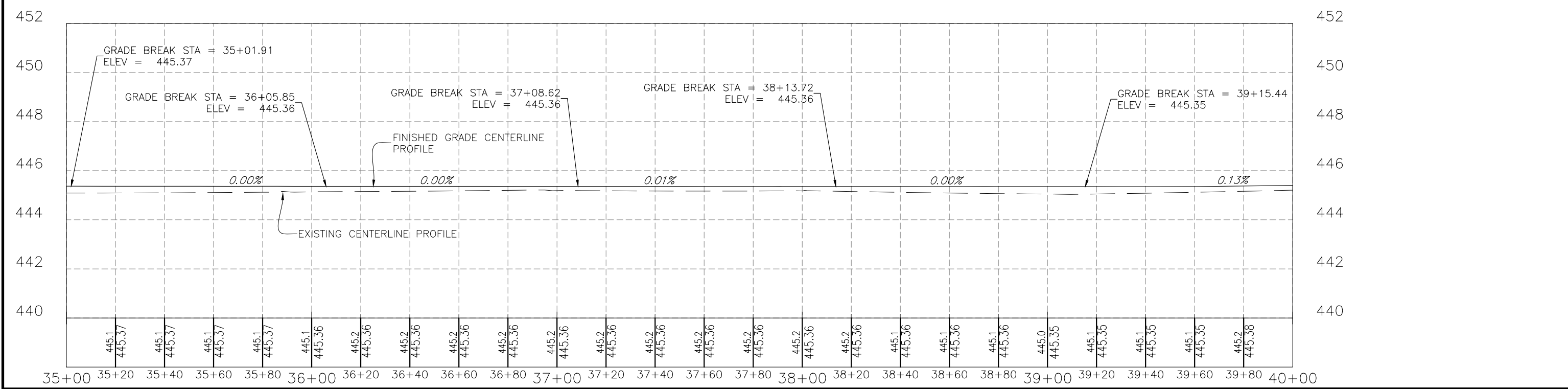
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DATE	REVISION	BY		DATE: 02/26/2025	DATE						OF 27 SHEETS



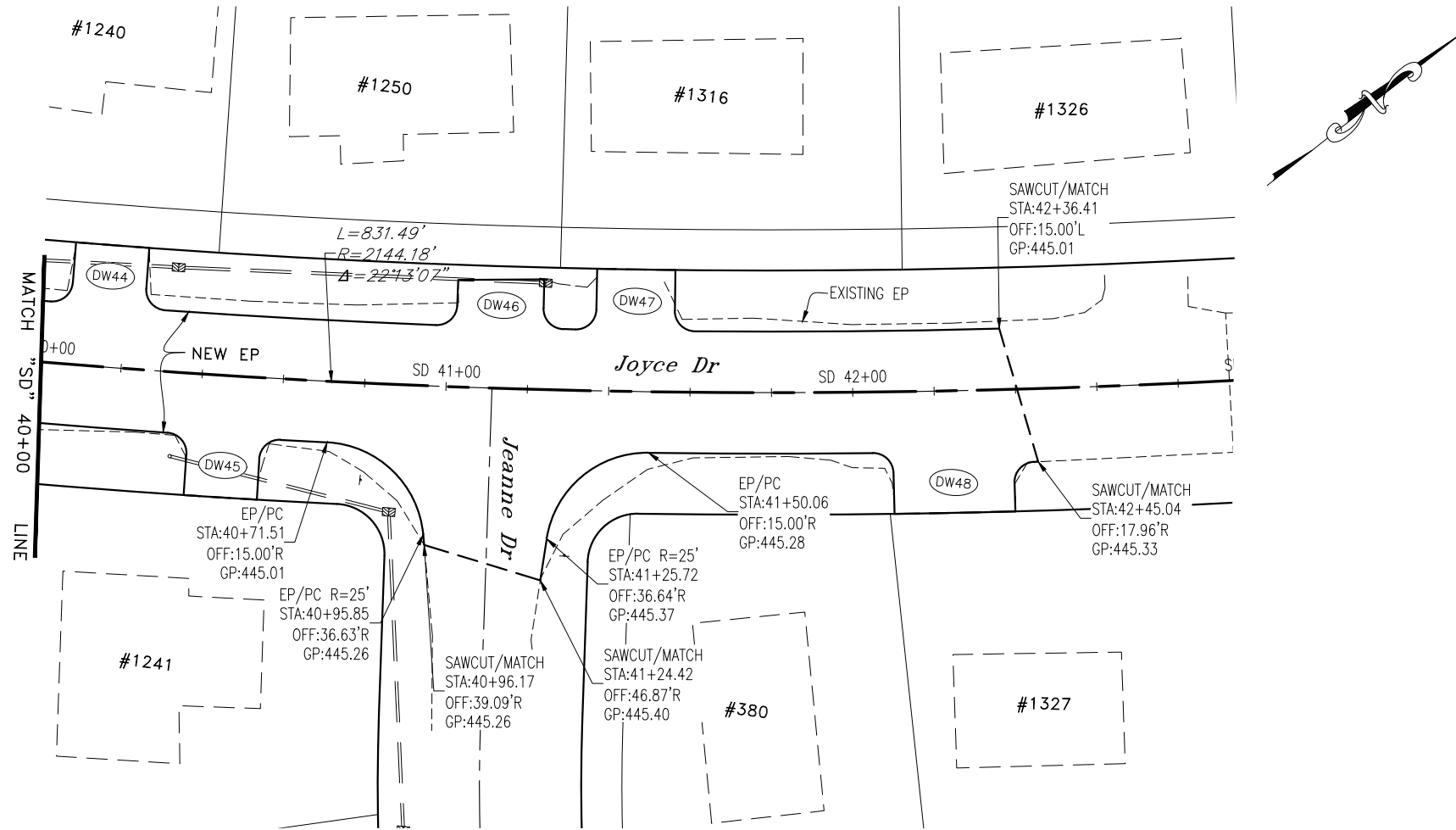
GRADING

STATE OF ALASKA
49TH
ROBERT H. PRISTASH
CIVIL ENGINEER
No. 9878
REGISTERED PROFESSIONAL ENGINEER

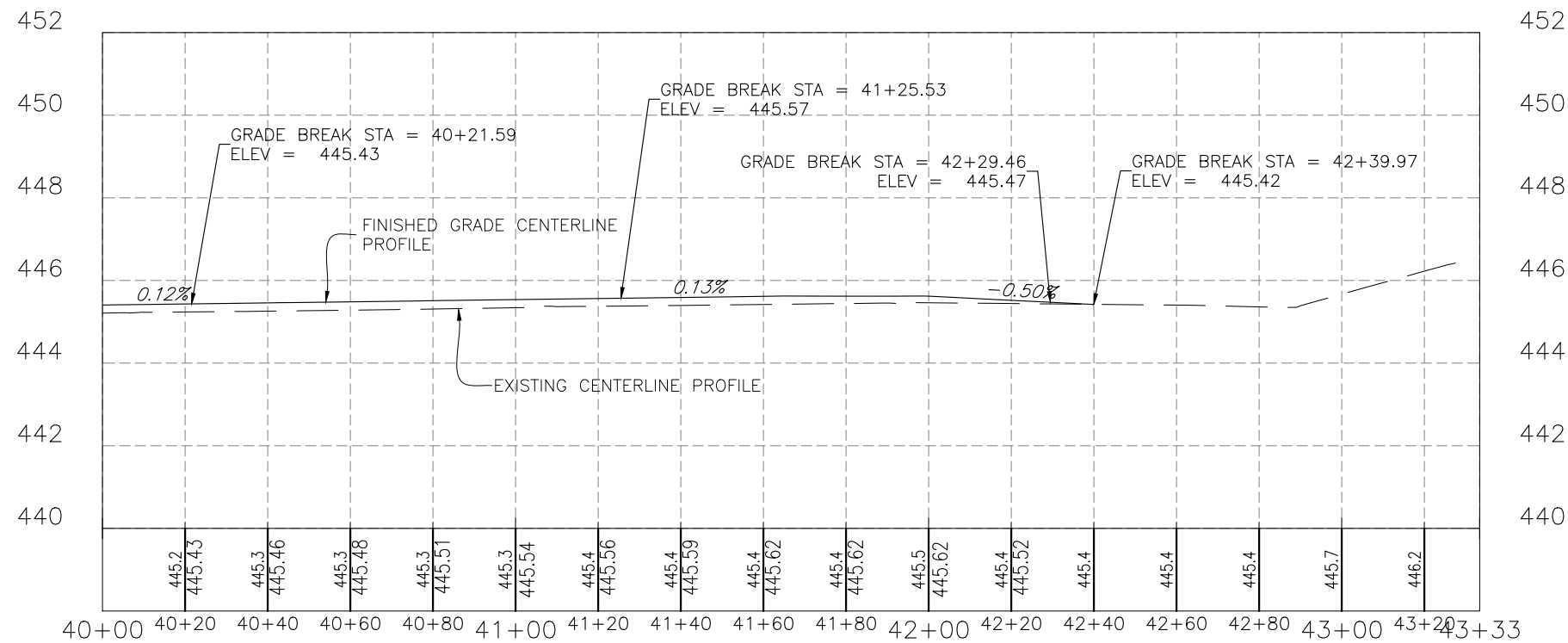
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			1"=40' HORIZ., 1"=4' VERT. (HALF SIZE)	CHECKED: RHP	CITY ENGINEER			
DATE	REVISION	BY		DATE: 02/26/2025	DATE			



GRADING



			SCALE: 1"=20' HORIZ., 1"=2' VERT. (FULL SIZE)	DESIGNED: RHP/KLL DRAWN: CHECKED: RHP DATE: 02/26/2025	APPROVED CITY ENGINEER DATE	 JOYCE DRIVE IMPROVEMENTS	CITY OF FAIRBANKS, ALASKA Engineering Department Project ITB-25-12	F6
			1"=40' HORIZ., 1"=4' VERT. (HALF SIZE)					OF 27 SHEETS
DATE	REVISION	BY						



JOYCE DRIVE IMPROVEMENTS

P:\FAST surface improvements 2025 construction\Joyce D\Civil3D Dwg Files\L3 Production\Erosion & Sediment Control Plan-ESCP 1 Thu, May/15/25 02:22pm

SITE INFORMATION

1. SITE FUNCTION: ROAD
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: https://hdsc.nws.noaa.gov/pfds/pfds_map_ak.html
4. PROJECT AREAS ARE LISTED BELOW, MATERIAL SITES NOT INCLUDED:

PROJECT INFORMATION TABLE		
	BASE BID	ADDITIVE ALT
PROJECT AREA (ACRES)	2.3	1.5
DISTURBED AREA (ACRE)	1.20	1.08
PRE-CONSTRUCTION IMPERVIOUS AREA	57%	75%
POST-CONSTRUCTION IMPERVIOUS AREA	52%	70%
PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.77	0.83
POST-CONSTRUCTION RUNOFF COEFFICIENT	0.76	0.81

5. MATERIAL SITES: MATERIALS WILL BE CONTRACTOR FURNISHED.
6. LANDSCAPE TOPOGRAPHY: VERY FLAT, URBAN WITH RESIDENTIAL DEVELOPMENT IN PROJECT CORRIDOR. EXISTING SLOPES IN THIS AREA ARE RELATIVELY FLAT. THE NEW ROAD AND STORM DRAIN DESIGN WILL EMULATE THE EXISTING ROAD SLOPES, AND DRAINAGE INFRASTRUCTURE.
7. DRAINAGE PATTERNS: SURFACE DRAINAGE VIA PIPED STORM DRAIN SYSTEM FLOWS TO DRAINAGE SWALES ON TRAINOR GATE.
8. APPROXIMATE GROWING SEASON: MAY 3 THROUGH OCTOBER 3.
9. EXISTING VEGETATION: PROJECT AREA IS RESIDENTIAL AND COMMERCIAL LANDSCAPED GRASS.
10. HISTORIC SITE CONTAMINATION: CONTAMINATED SITES HAVE BEEN IDENTIFIED WITHIN 1500 FEET THE PROJECT AREA (SOURCE: [HTTPS://DEC.ALASKA.GOV/SPAR/CSP](https://dec.alaska.gov/spar/csp))
 - HAZARD ID: 24445, FILE ID: 100.26.131 (STATUS: ACTIVE)
 - HAZARD ID: 2328, FILE ID: 100.38.097 (STATUS: ACTIVE)
 - HAZARD ID: 24295, FILE ID: 102.26.055 (STATUS: ACTIVE)
 - HAZARD ID: 3680, FILE ID: 102.38.060 (STATUS: ACTIVE)
 - HAZARD ID: 4098, FILE ID: 102.38.129 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID: 3822, FILE ID: 102.38.124 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID: 24254, FILE ID: 102.26.042 (STATUS: CLEANUP COMPLETE)
 - HAZARD ID: 25500, FILE ID: 102.38.160 (STATUS: CLEANUP COMPLETE)
11. STAGING AND STOCKPILE AREAS: CONTRACTOR MUST SEEK LOCATIONS FOR STOCKPILING MATERIAL AND STAGING AND STORAGE OF EQUIPMENT. STAGING AND STOCKPILE AREAS MUST COMPLY WITH CGP, SWPPP, SECTION 641 SPECIFICATIONS, AND ALL PERMITS.

ENVIRONMENTAL INFORMATION

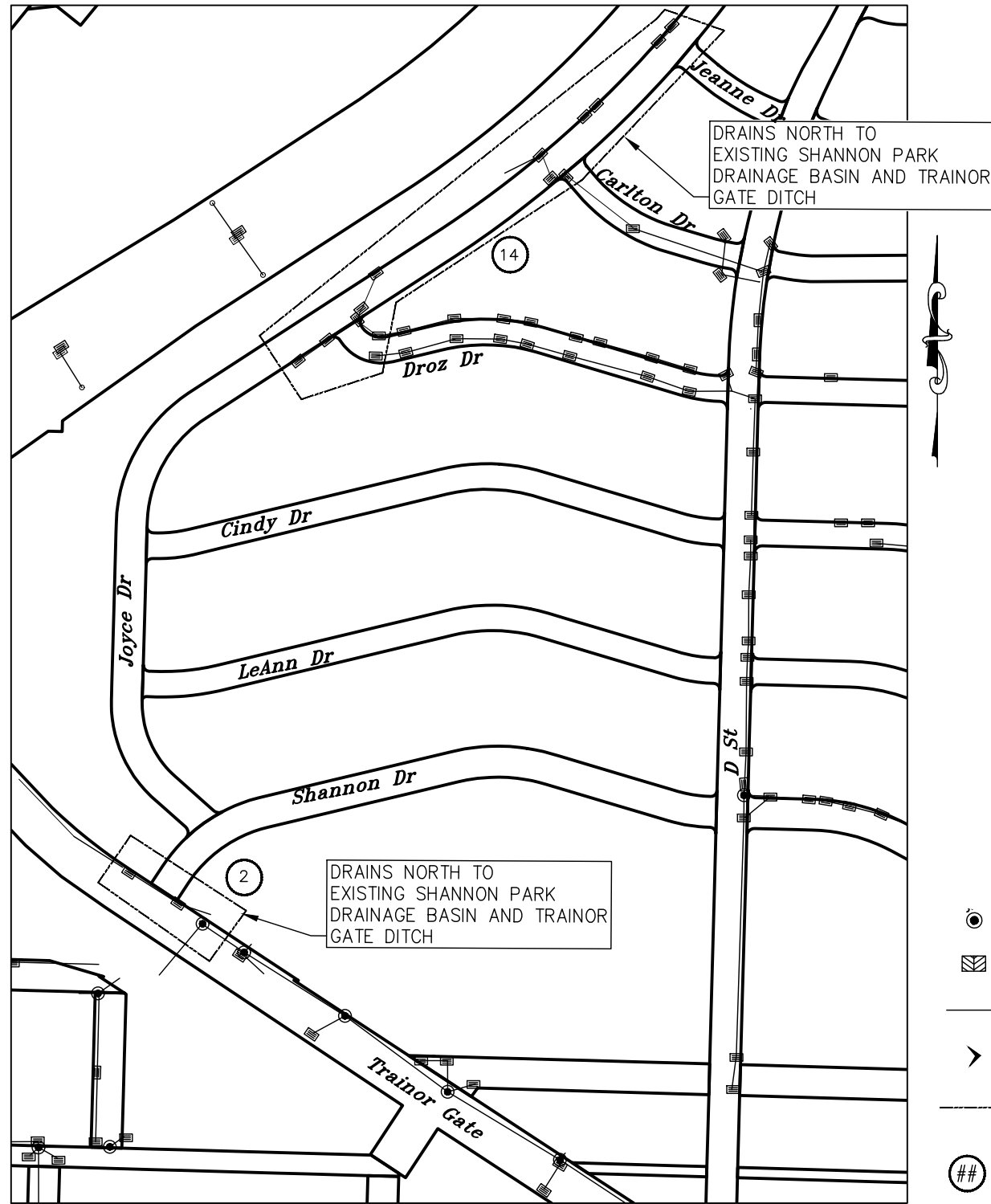
1. RECEIVING WATERS: NONE
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM DAILY LOAD (TDML): NONE
4. STORM SEWER / DRAINAGE SYSTEMS: FAIRBANKS MS4 DRAINS TO EXISTING SHANNON PARK DRAINAGE BASIN AND TRAINOR GATE DITCH.
5. THREATENED AND ENDANGERED SPECIES: NONE
6. HISTORICAL & CULTURAL RESOURCE PRESENCE: 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
 - ADDRESS: 3691 CAMERON ST #201, FAIRBANKS, AK 99709

EROSION & SEDIMENT CONTROL PLAN (ESCP) NOTES

1. THIS PROJECT WILL RESULT IN GROUND DISTURBANCE OF GREATER THEN 1 ACRE AND HAS THE POTENTIAL TO DISCHARGE STORM WATER TO WATERS OF THE U.S., AND WILL REQUIRE THE CONTRACTOR TO PREPARE A STORM WATER POLLUTION PREVENT PLAN (SWPPP). A NOTICE OF INTENT TO DISCHARGE (NOI) TO APPLY FOR COVERAGE UNDER THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) CONSTRUCTION GENERAL PERMIT (CGP) WILL BE REQUIRED. SINCE THIS PROJECT IS FURTHER LOCATED WITHIN THE FAIRBANKS URBANIZED AREA AND IS PUBLICLY-FUNDED, AND PURSUANT TO SECTION 2.1.4.3 OF THE CGP, A COPY OF THE SWPPP MUST BE SUBMITTED TO THE ADEC FOR REVIEW. SEE THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC) STORM WATER WEBPAGE <https://dec.alaska.gov/water/wastewater/stormwater/> FOR THE CONSTRUCTION SITE STORM WATER PLAN REVIEW AND INSPECTION REQUIREMENTS APPLICABLE TO THIS PROJECT.
2. THIS EROSION & SEDIMENT CONTROL PLAN (ESCP) IS GENERAL IN NATURE AND IS PROVIDED AS GUIDANCE TO THE CONTRACTOR FOR DEVELOPMENT OF THE SWPPP.
3. SHEET Q2 CONTAINS A PLAN VIEW OF JOYCE DRVE 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.
4. 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.
5. INLET AND OUTLET PROTECTION SHALL BE ALSO PROVIDED AT ALL CULVERT LOCATIONS RECEIVING STORM WATER RUNOFF FROM THE PROJECT SITE. INLET PROTECTION FOR CULVERTS SHALL BE DESIGNED TO CONTROL SEDIMENT FROM ENTERING THE PIPE. OUTLET PROTECTION FOR CULVERTS SHALL BE DESIGNED TO CONTROL EROSION AT THE OUTLET BY REDUCING FLOW VELOCITY AND ENERGY. SPECIFIC CONTROL DEVICES SHALL BE SELECTED BY THE CONTRACTOR.
6. INLET PROTECTION INCLUDES ANY AND ALL BMPS TO PREVENT POLLUTION FROM ENTERING INLETS. CONTRACTOR TO ENSURE BMPS ARE IN GOOD WORKING CONDITION, AND ARE MAINTAINED PER ADEC CGP AND MANUFACTURER'S REQUIREMENTS. SPECIFIC BMPS AND LOCATIONS SHALL BE SELECTED BY THE CONTRACTOR.
7. STREET SURFACES ADJACENT TO THE WORK AREA SHALL BE SWEEP DAILY TO COLLECT ANY SEDIMENT OR OTHER CONSTRUCTION DEBRIS TRACKED OFFSITE.
8. THE CONTRACTOR SHALL DESIGNATE A CONCRETE WASHOUT AREA ONSITE, AS NECESSARY, TO CONTAIN THE WASHOUT WATER AND RESIDUALS DURING CONCRETE WORK ON JOYCE DRIVE.
9. HAVE A SPILL KIT AVAILABLE AT EACH WORK AREA WHEN HEAVY EQUIPMENT IS BEING UTILIZED.
10. PROVIDE CONSTRUCTION FENCING OR CONES AROUND WORK AREAS TO LIMIT POTENTIAL FOR VEHICLES TO DRIVE THROUGH AND TRACK SEDIMENT ONTO THE STREET SURFACE.
11. ANY POLLUTANTS THAT ARE COLLECTED IN OR NEAR THE JOYCE DRIVE STORM DRAIN SYSTEM WILL DISCHARGE TO THE EXISTING SHANNON PARK DRAINAGE BASIN AND TRAINOR GATE DITCH.
12. CONTRACTOR SHALL VERIFY DIRECTION OF FLOW PRIOR TO IMPLEMENTING BMPS.

			SCALE:	DESIGNED: RHP/KLL	APPROVED CITY ENGINEER		CITY OF FAIRBANKS, ALASKA Engineering Department Project ITB-25-12	Q1
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				CHECKED: RHP				
DATE	REVISION	BY		DATE: 02/26/2025	DATE			OF 27 SHEETS

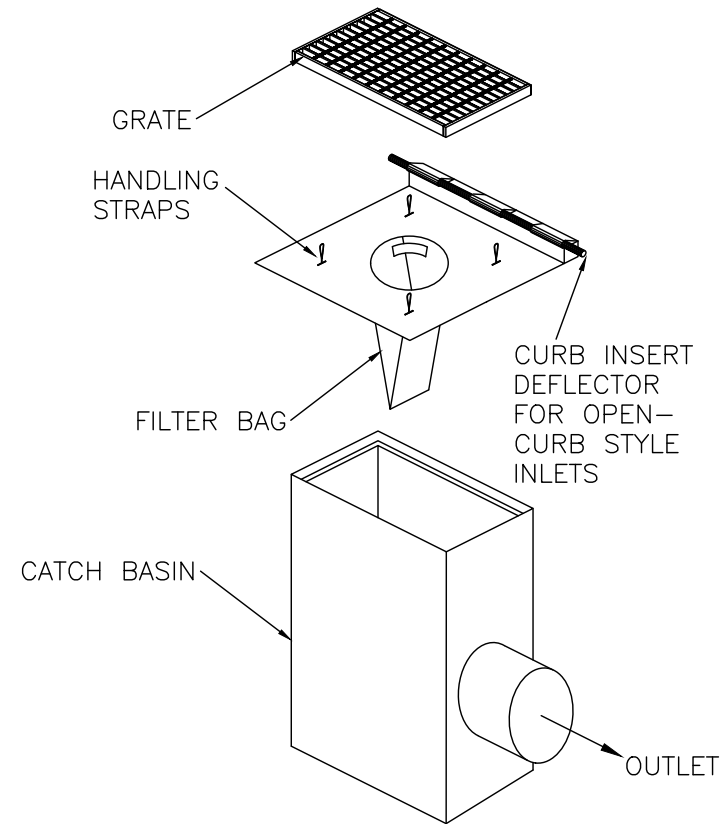
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JOYCE DRIVE

LEGEND

-  STORM DRAIN MANHOLE
-  STORM DRAIN INLET
-  STORM DRAIN PIPE
-  PIPE FLOW DIRECTION
-  CATCH BASIN & CULVERT PROTECTION AREA
-  CATCH BASINS THAT REQUIRE INLET PROTECTION



CATCH BASIN
INLET PROTECTION
DETAIL

DATE	REVISION	BY

SCALE:

DESIGNED: RHP/KLL
DRAWN:
CHECKED: RHP
DATE: 02/26/2025

APPROVED

CITY ENGINEER
DATE



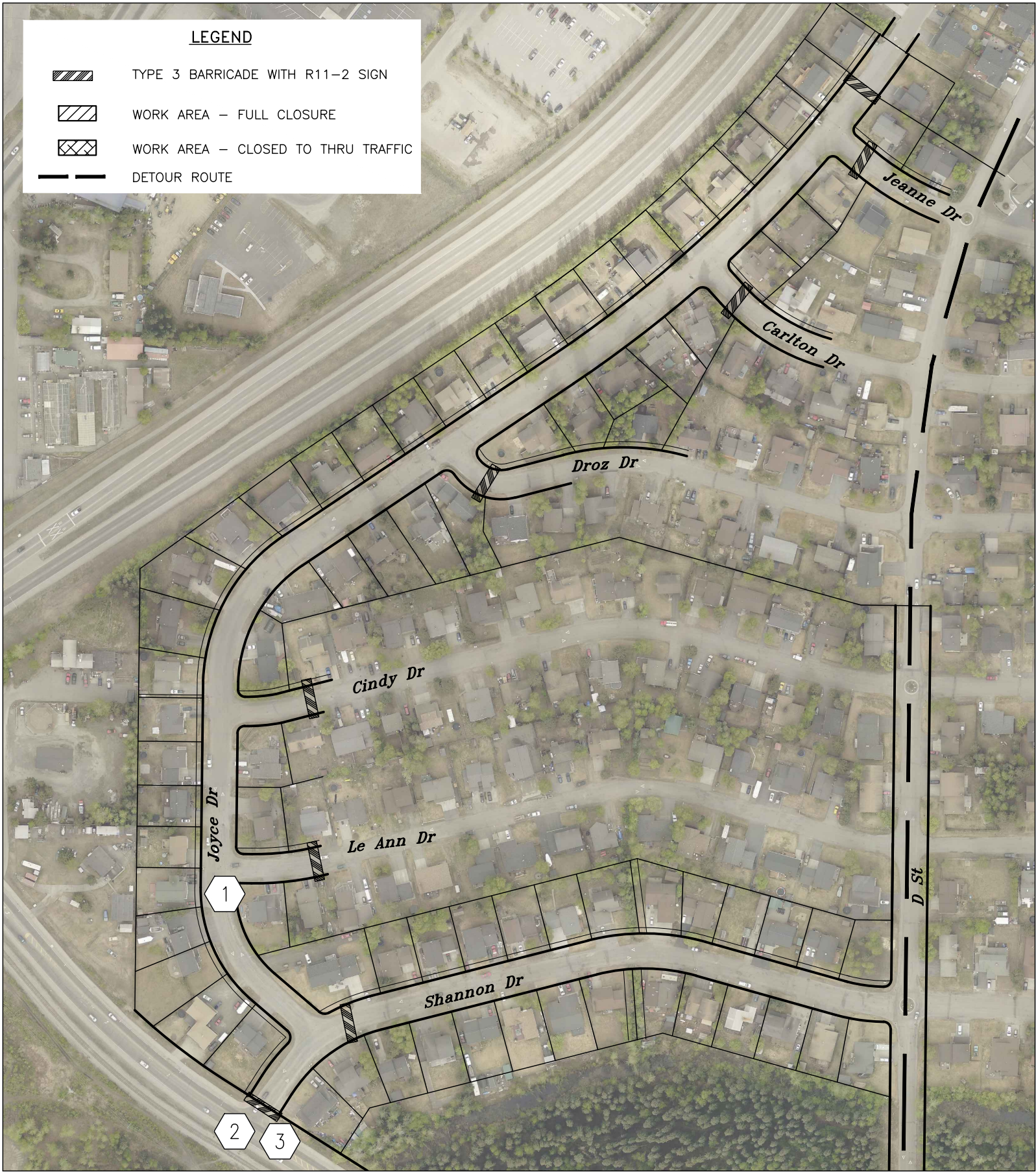
JOYCE DRIVE IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-12

Q2

OF 27
SHEETS

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JOYCE DRIVE CONSTRUCTION REQUIREMENT NOTES

- 1
- JOYCE DRIVE MAY BE CLOSED TO THRU VEHICULAR TRAFFIC BUT ACCESS TO RESIDENTIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- 2
- SHANNON DRIVE AND TRAINOR GATE ROAD INTERSECTION MAY BE FULLY CLOSED. USE THE D STREET AND TRAINOR GATE ROAD INTERSECTION FOR DETOUR.
- 3
- TRAINOR GATE ROAD MAY BE RESTRICTED TO ONE LANE WITH FLAGGER DURING INSTALLATION OF STORM DRAIN AT TRAINOR GATE.

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.

CONSTRUCTION
REQUIREMENTS
1 OF 1

DATE	REVISION	BY

SCALE:

DESIGNED: RHP/KLL
DRAWN:
CHECKED: RHP
DATE: 02/26/2025

APPROVED

CITY ENGINEER

DATE

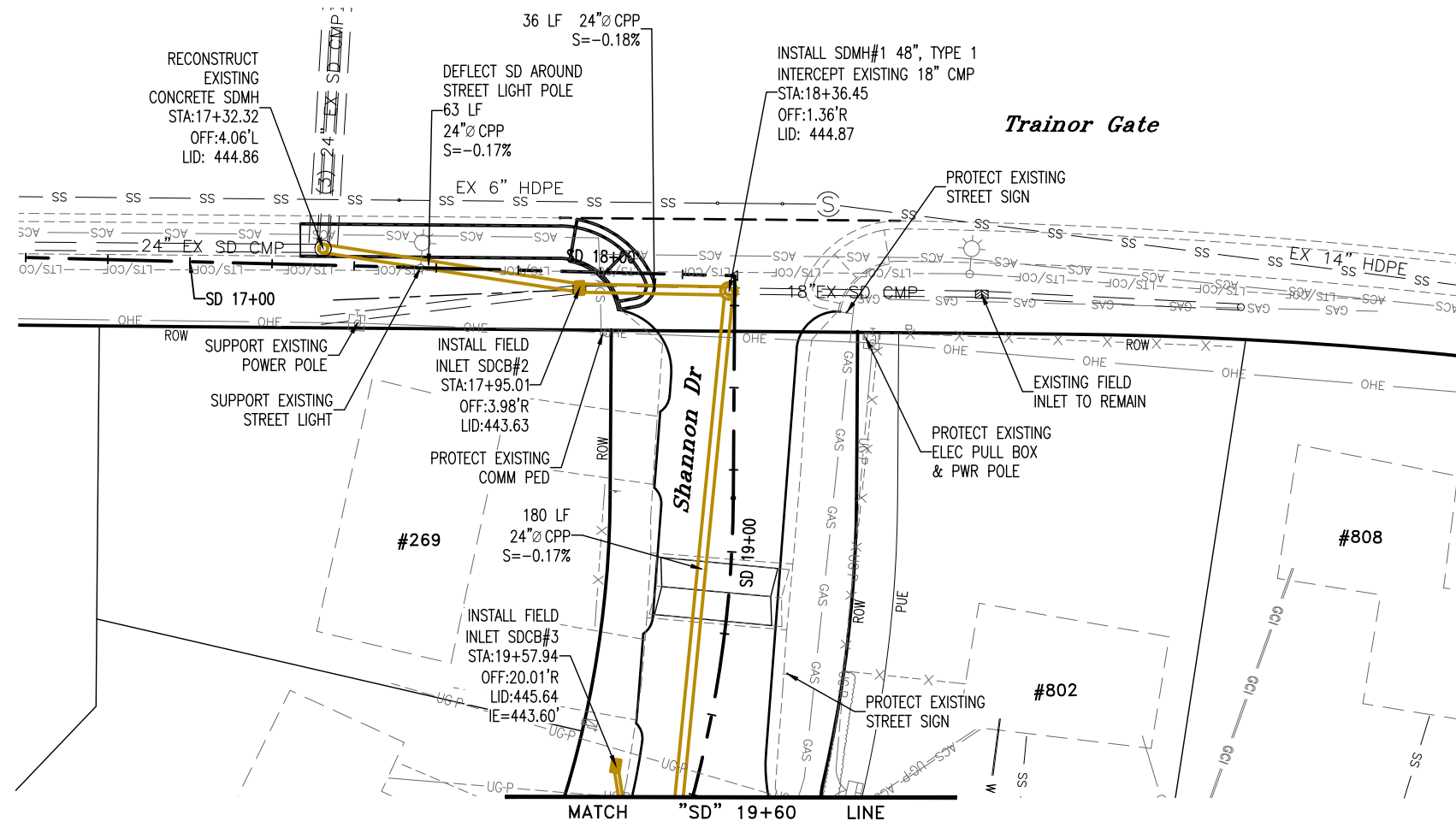


JOYCE DRIVE IMPROVEMENTS

CITY OF FAIRBANKS, ALASKA
Engineering Department
Project ITB-25-12

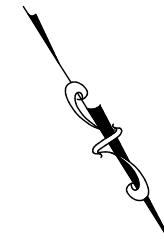
T1

OF 27
SHEETS



NOTES

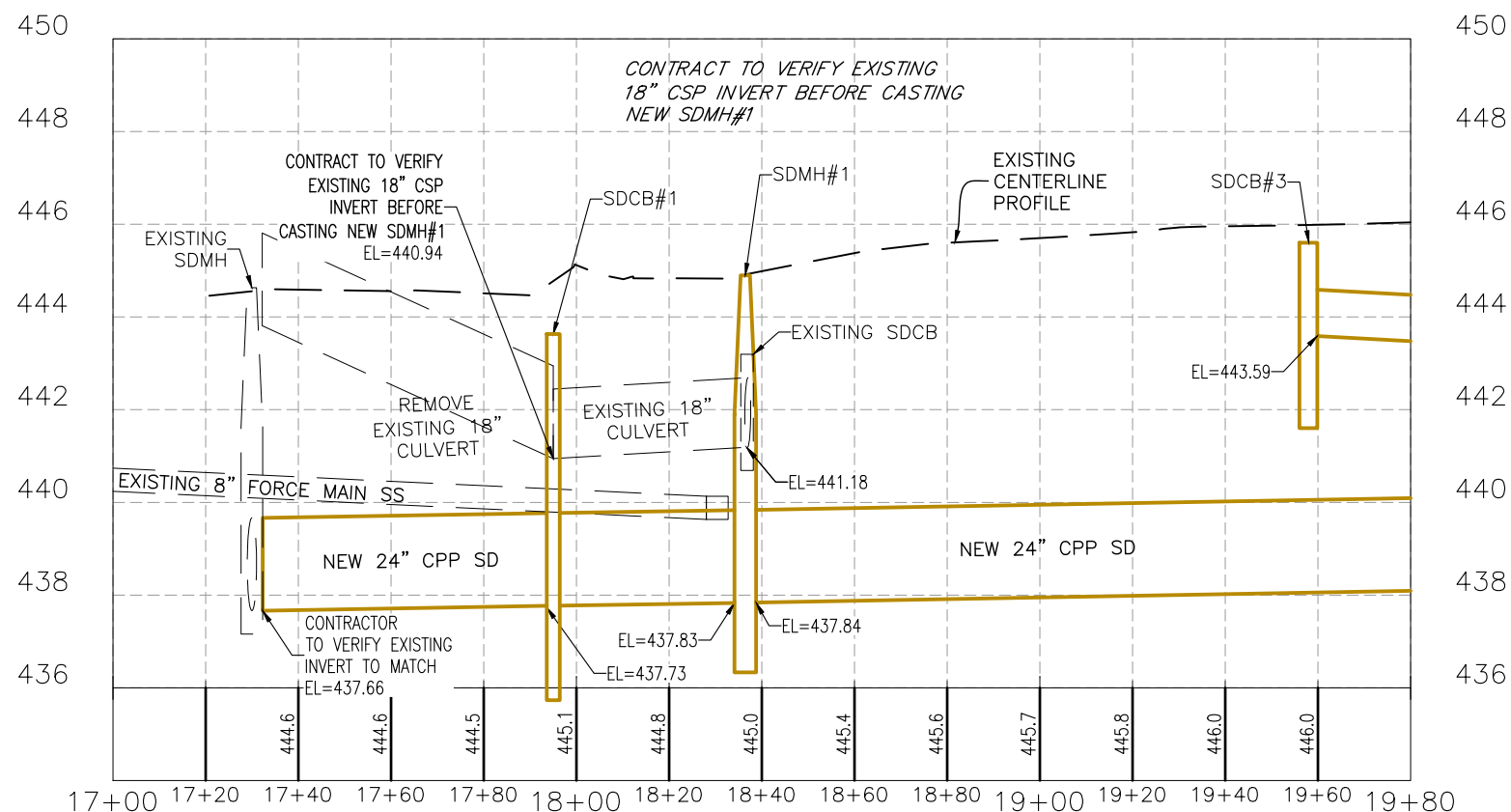
1. CITY OF FAIRBANKS TO PROVIDE ALL STORM DRAIN PIPE.
2. NEW SEWER & WATER REPLACEMENT TO BE INSTALLED BY OTHERS.



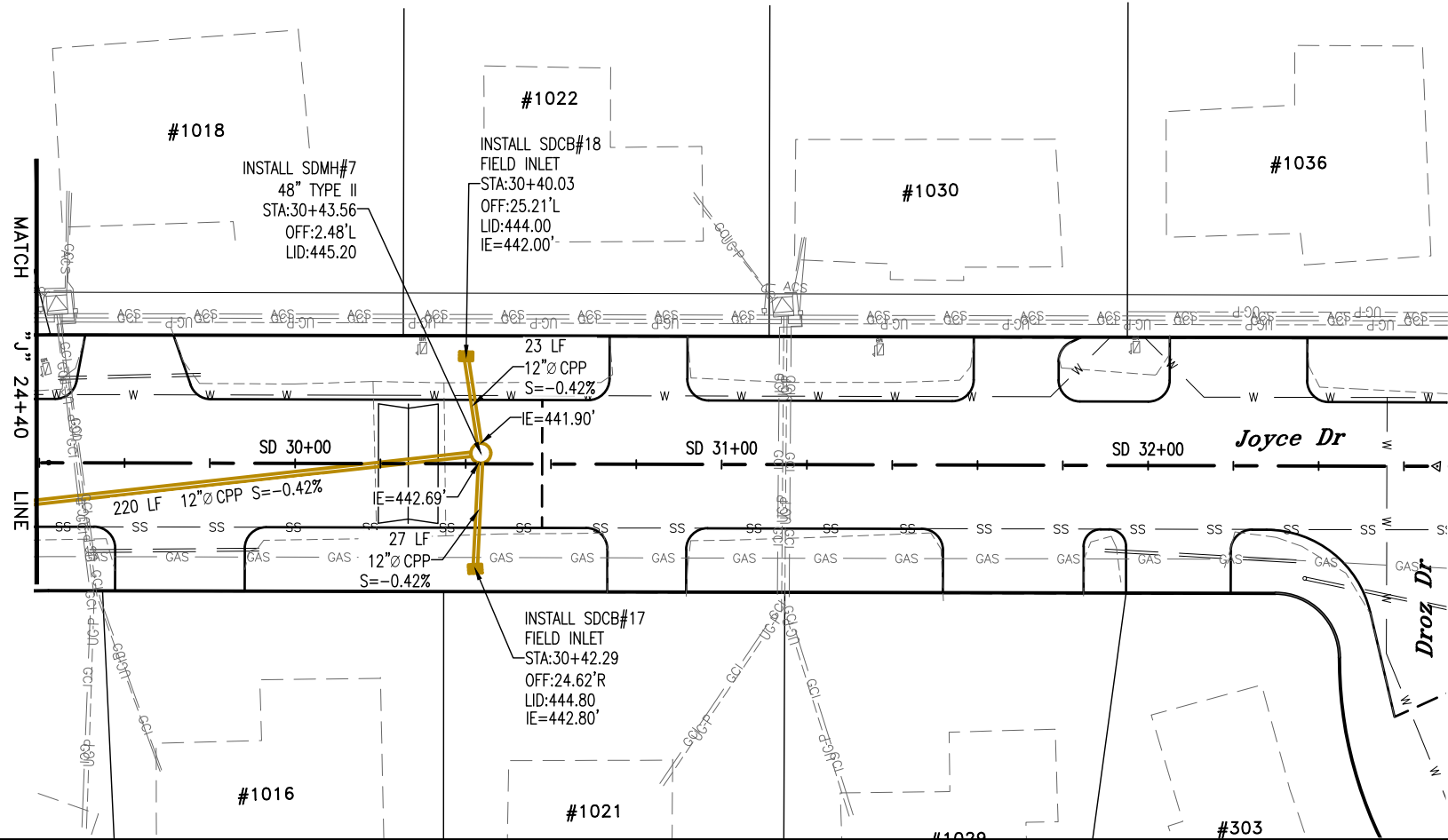
STORM DRAIN



05/15/2025



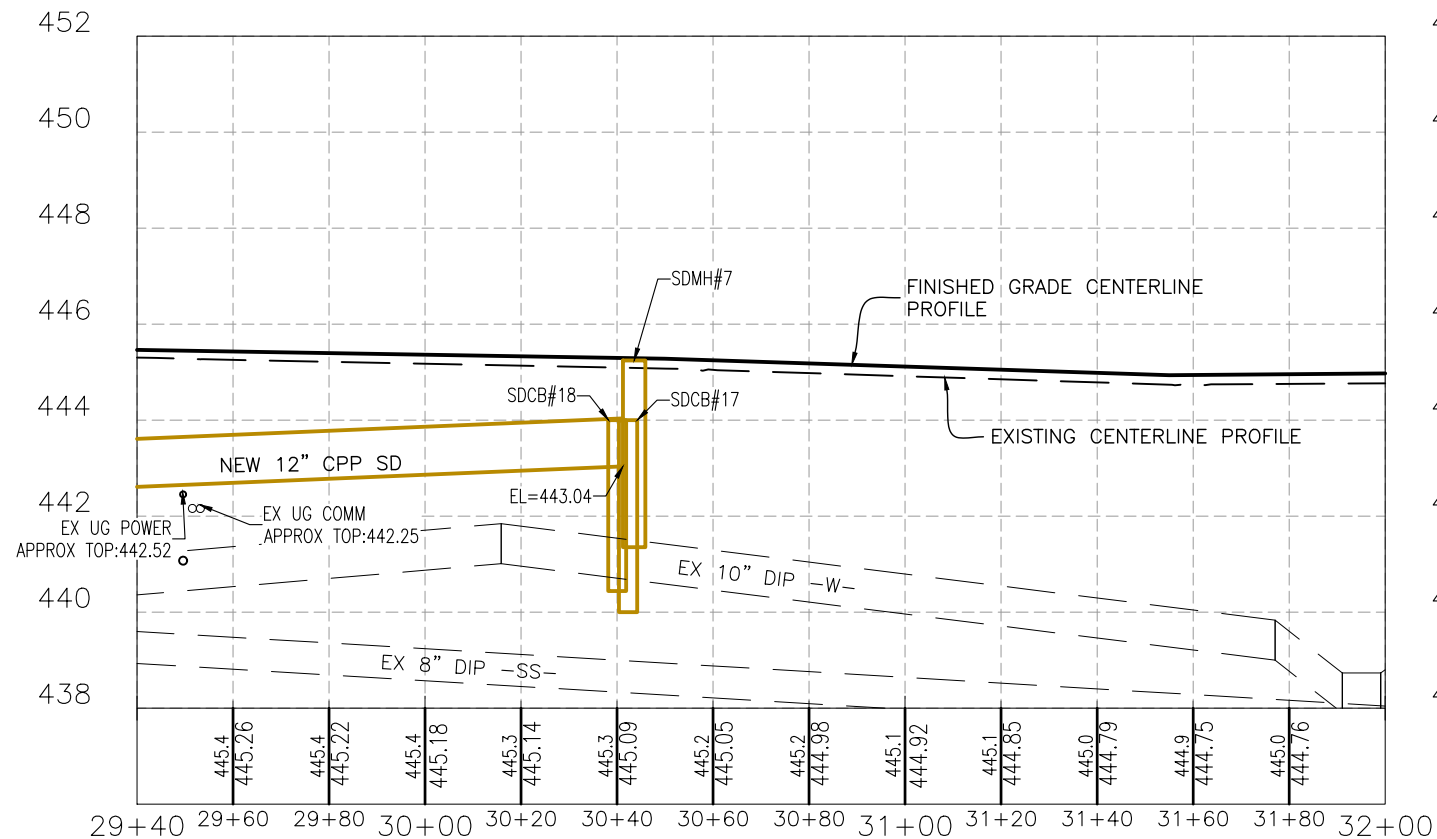
			SCALE:	DESIGNED: RHP/KLL	APPROVED _____ CITY ENGINEER DATE	 <u>JOYCE DRIVE IMPROVEMENTS</u>	CITY OF FAIRBANKS, ALASKA Engineering Department Project ITB-25-12	U1	
			1"=20' HORIZ., 1"=40' HORIZ.,	DRAWN:					
			1"=2' VERT. 1"=4' VERT. (FULL SIZE) (HALF SIZE)	CHECKED: RHP DATE: 02/26/2025					OF 27 SHEETS
DATE	REVISION	BY							



1"=20' HORIZ.,
1"=2' VERT.
(FULL SIZE)

1"=40' HORIZ.,
1"=4' VERT.
(HALF SIZE)

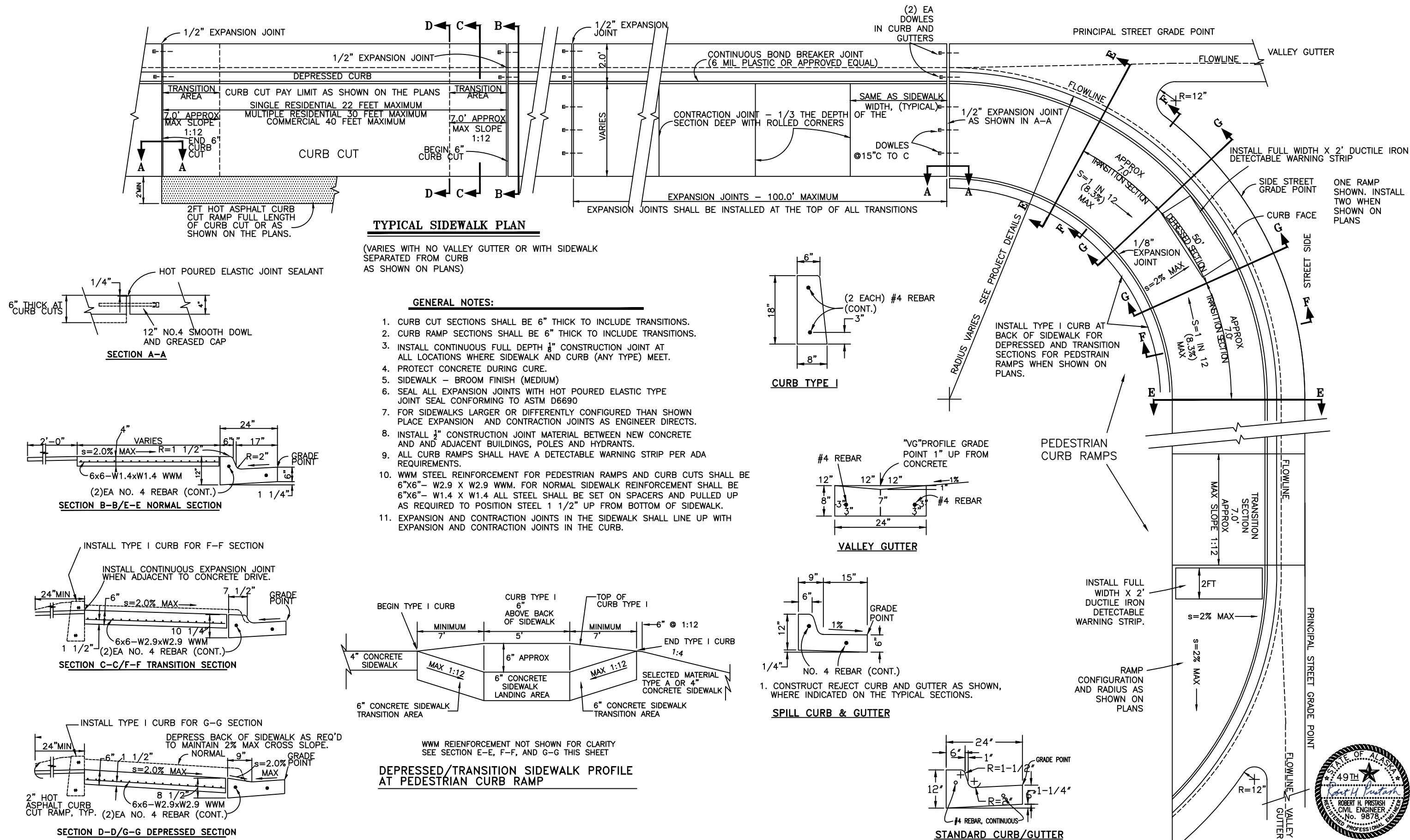
STORM DRAIN



NOTES

1. NEW SEWER & WATER REPLACEMENT TO BE INSTALLED BY OTHERS.

			SCALE:	DESIGNED: RHP/KLL	APPROVED CITY ENGINEER	 <u>JOYCE DRIVE IMPROVEMENTS</u>	CITY OF FAIRBANKS, ALASKA Engineering Department Project ITB-25-12	U4		
				DRAWN:						
				CHECKED: RHP						
DATE	REVISION	BY		DATE: 02/26/2025				DATE		OF 27 SHEETS



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
DATE	REVISION	BY

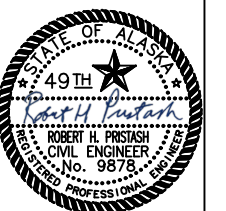
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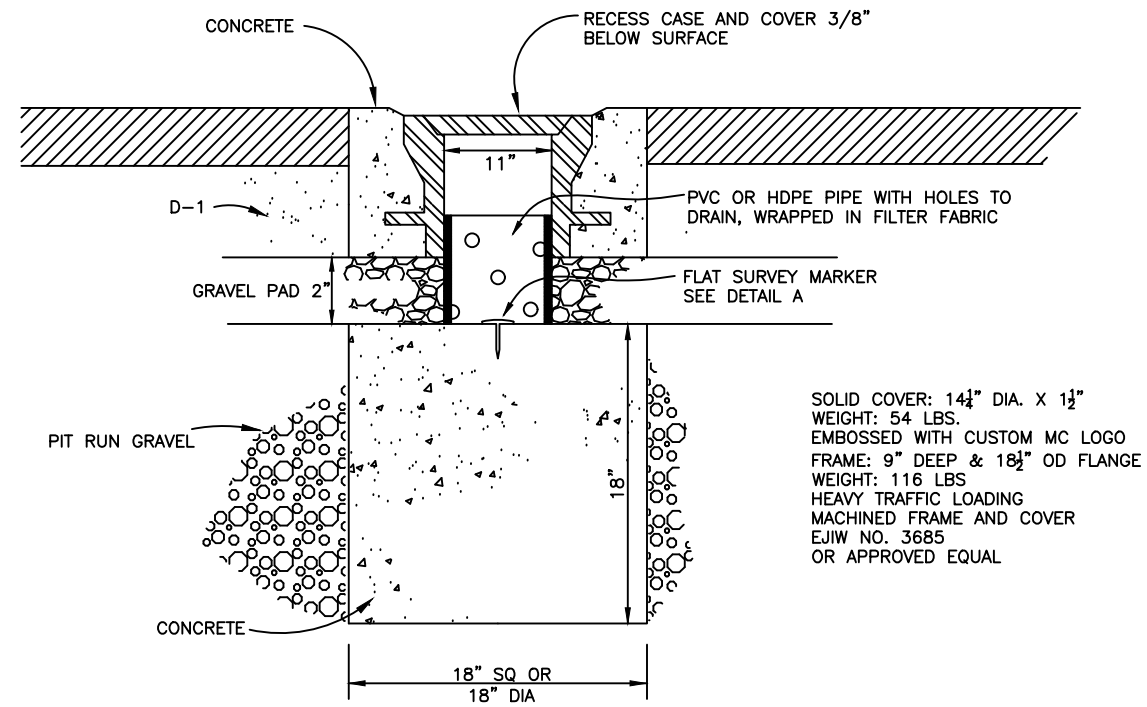
DESIGNED:	
DRAWN:	STAFF
CHECKED:	RHP,GSC
DATE:	3/23/07

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

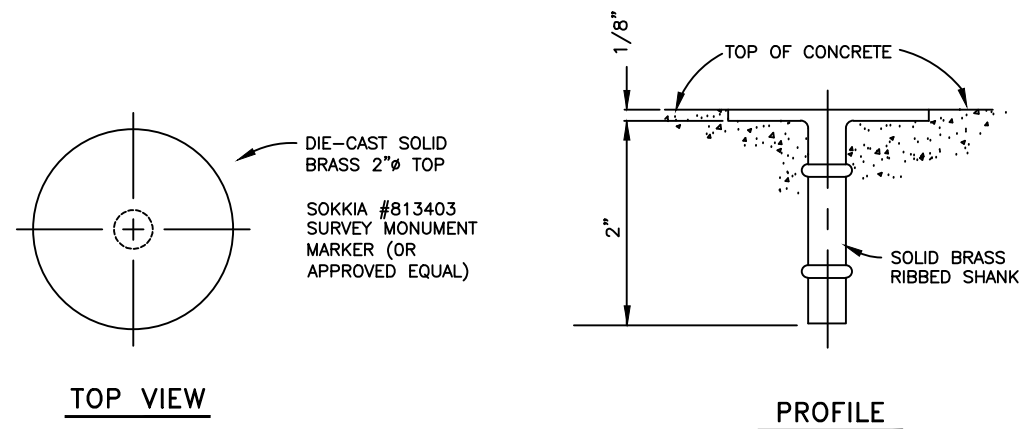
STANDARD CONCRETE DETAILS

CD1

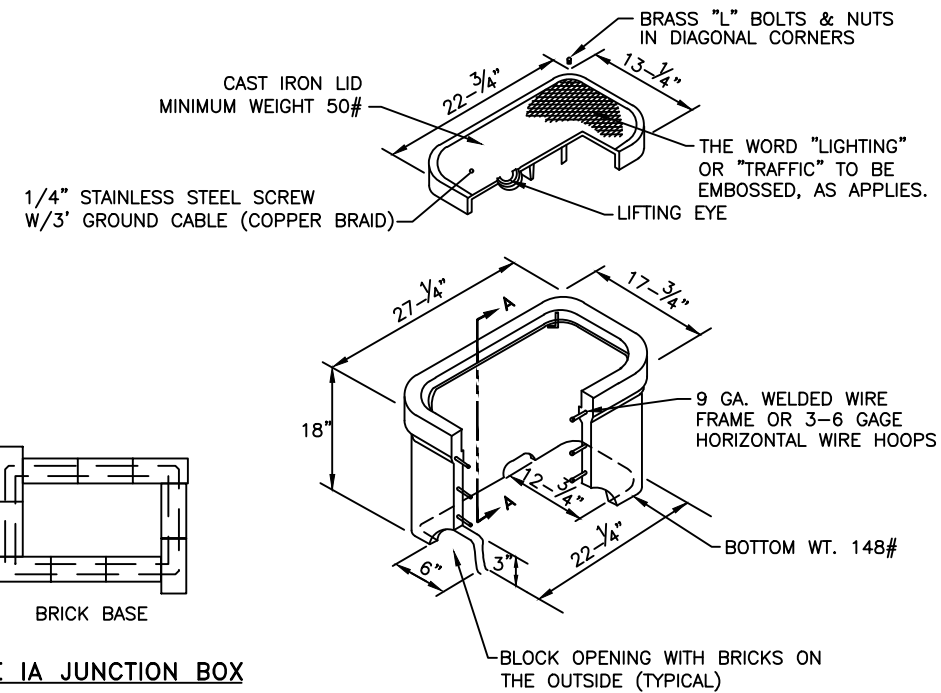




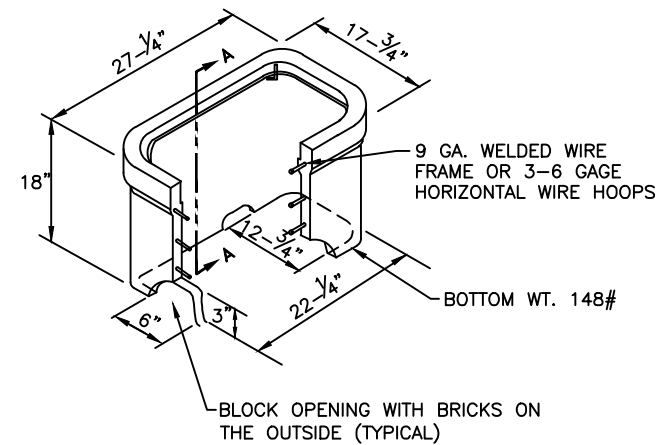
MONUMENT BASE AND CASE DETAIL



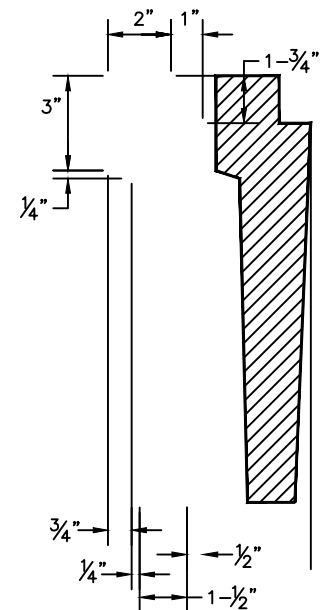
FLAT SURVEY MARKER DETAIL A



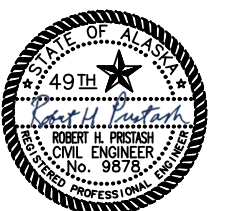
TYPE IA JUNCTION BOX



TYPE IA JUNCTION BOX DETAIL



SECTION A-A



05/15/2025

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
DATE	REVISION	BY

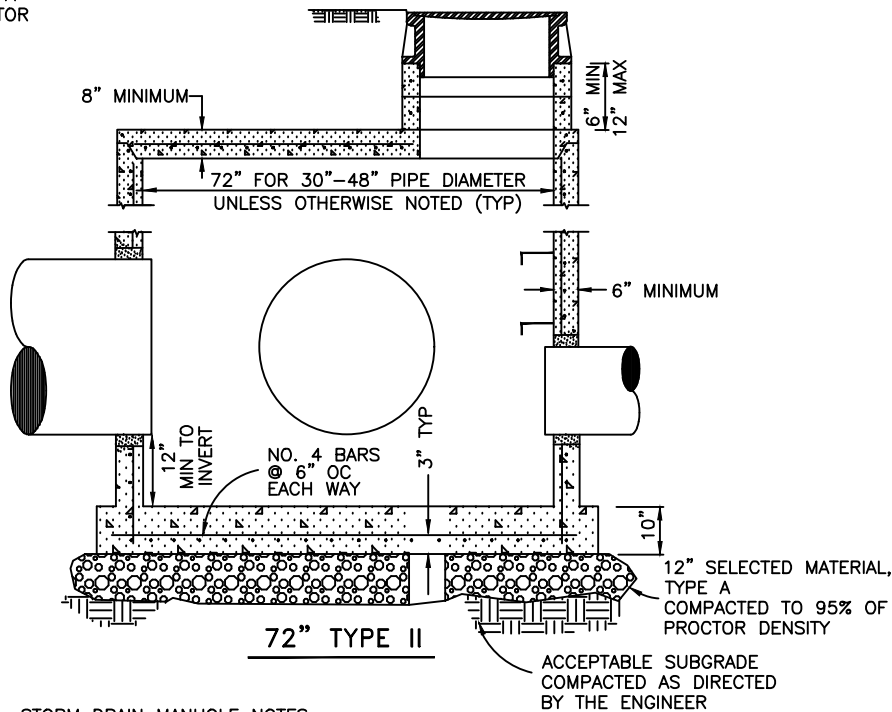
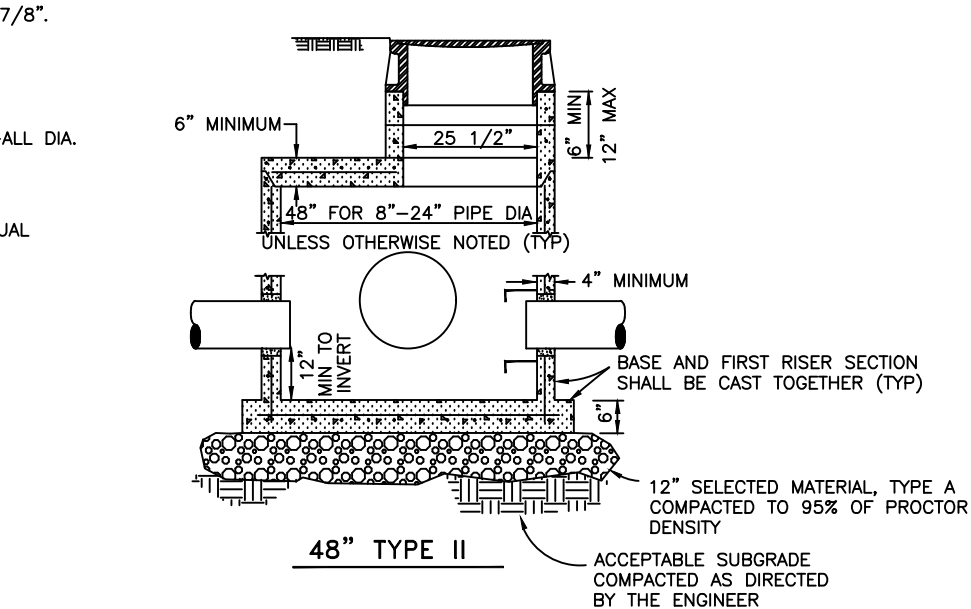
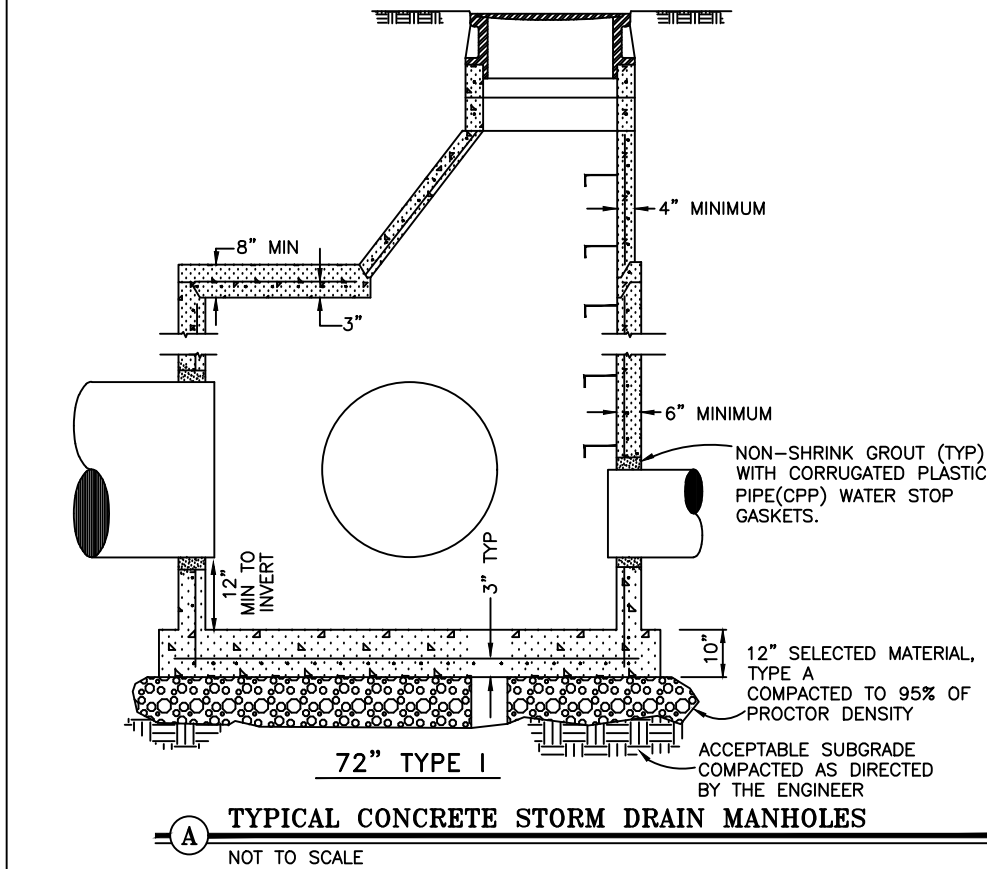
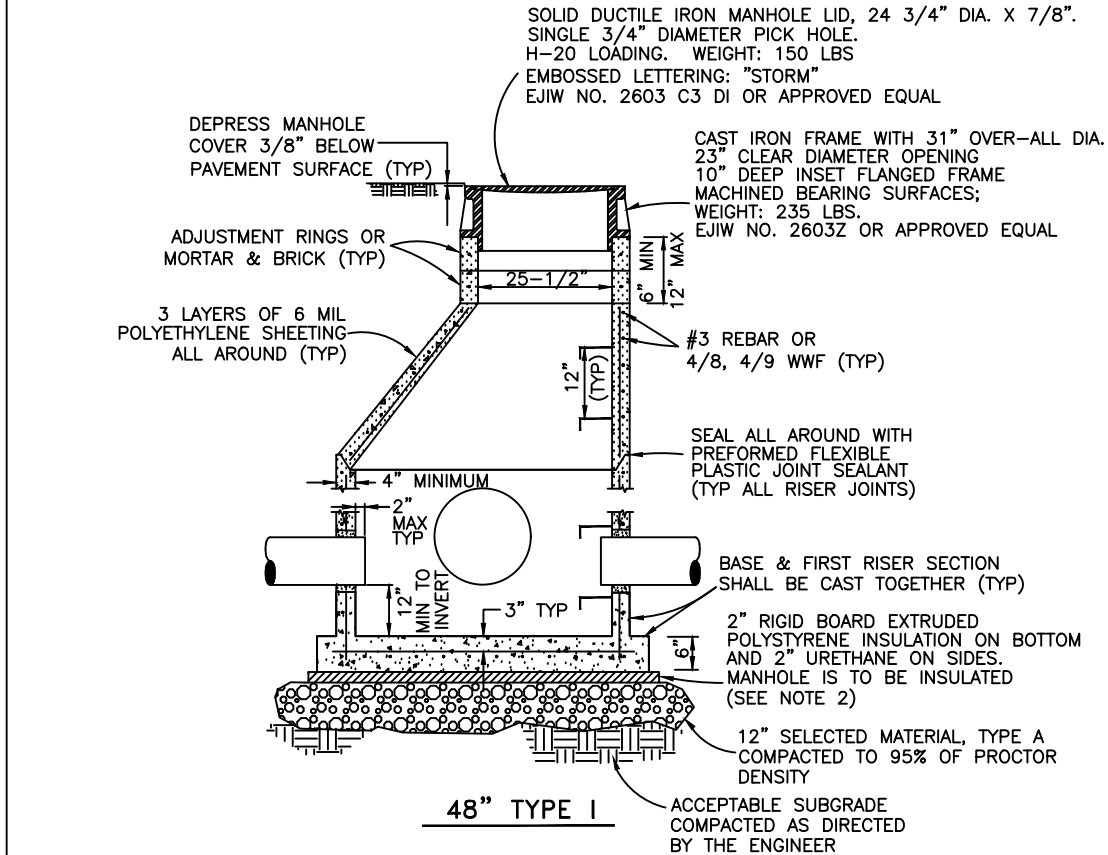
NOT TO SCALE

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

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

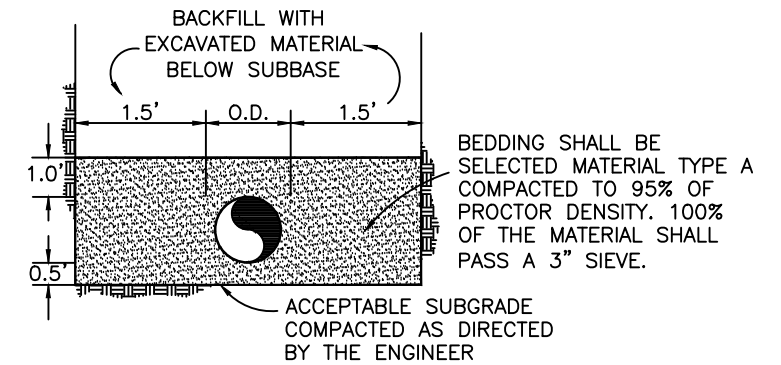
STANDARD CONCRETE DETAILS
MONUMENT BASE, CASE AND MARKER

CD2



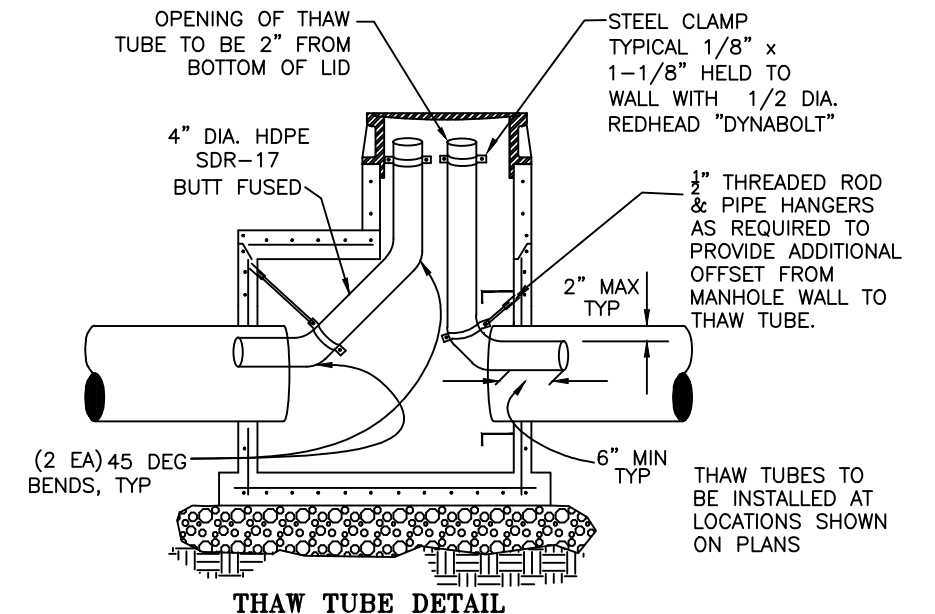
STORM DRAIN MANHOLE NOTES:

1. OPENINGS IN MANHOLE TO RECEIVE PIPE SHALL BE 1" TO 2" LARGER THEN THE OD AND PIPE. LARGER OPENINGS SHALL BE FILLED AS DIRECTED BY THE ENGINEER. INSIDE GROUT SURFACE SHALL BE SMOOTH. PROVIDE CPP WATER STOP GASKETS.
2. TYPICALLY, STORM DRAIN MANHOLES DO NOT REQUIRE INSULATION. HOWEVER, SPECIAL CASES REQUIRE INSULATION OF ALL OUTSIDE SURFACES. SEE PLANS.
3. SEAL RISER JOINTS WITH FLEXIBLE PLASTIC JOINT SEALERS.
4. MANHOLE STEPS SHALL BE APPROVED GALVANIZED STEEL OR PLASTIC AND MEET CURRENT OSHA STANDARDS.
5. ALL GROUT SHALL BE NON-SHRINK. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
6. REINFORCEMENT IN BASE, RISER, CONE, FLAT LID, AND ADJUSTING RINGS SHALL COMPLY WITH AASHTO SPECIFICATION M199/ASTM478.



PIPE BEDDING DETAIL

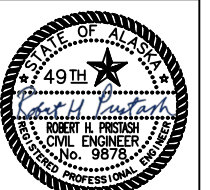
NOT TO SCALE



THAW TUBE DETAIL

MANHOLE REINFORCEMENT SCHEDULE			
SECTION	MANHOLE SIZE		
	48"	72"	
FLAT BASE	0.39 SQ IN/FT EACH WAY	0.39 SQ IN/FT EACH WAY	(SHALL COMPLY WITH AASHTO M 199 /ASTM 478)
RISER SECTION*	0.12 SQ IN/FT	0.18 SQ IN/FT	*CIRCUMFERENTIAL REINFORCING ALL AREAS ARE MINIMUM CROSS-SECTIONAL AREA OF REINFORCEMENT PER FOOT OF SECTION.
CONE SECTION*	0.12 SQ IN/FT	0.18 SQ IN/FT	
FLAT LID**	0.12 SQ IN/FT EACH WAY	0.12 SQ IN/FT EACH WAY	
ADJUSTING RING	0.024 SQ IN	0.024 SQ IN	

**OPENINGS IN FLAT LIDS SHALL BE ADDITIONALLY REINFORCED WITH A MINIMUM OF THE EQUIVALENT OF 0.2 SQ IN OF STEEL AT 90'.



05/15/2025

3/13/17	WATER STOP GASKETS	RHP
2/3/10	NEW SD1	GSC,RHP
3/23/07		RHP
DATE		BY

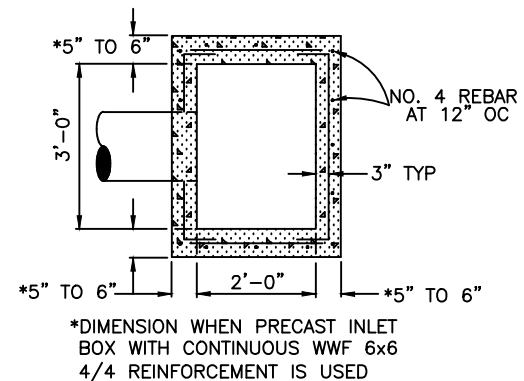
NOT TO SCALE

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

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

STANDARD DETAILS
STORM DRAIN MANHOLES, THAW TUBES AND BEDDING

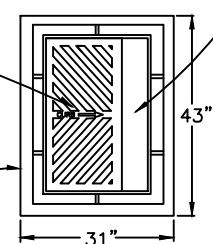
SD1



TYPICAL CURB INLET

EJIW 7070M9 GRATE OR APPROVED EQUAL
17 3/4" X 35 1/2" X 1 7/8"
OPEN AREA: 190 SQ. IN.
WEIGHT: 190 LBS.

EJIW 7030Z1DI HEAVY TRAFFIC LOADING FRAME OR APPROVED EQUAL
WEIGHT: 185 LBS.

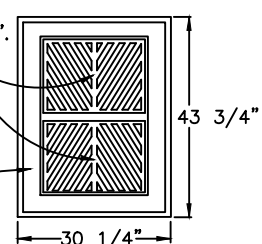


EJIW 7030T4DI ADJUSTABLE HOOD WITH 6"-11" RANGE OR APPROVED EQUAL
5 7/8" X 37" X 13". 3" RADIUS
WEIGHT: 160 LBS
EMBOSSED LETTERING:
"DUMP NO WASTE! DRAINS TO RIVERS"
WITH FISH IMAGE PERMANENTLY CAST INTO HOOD TOP.

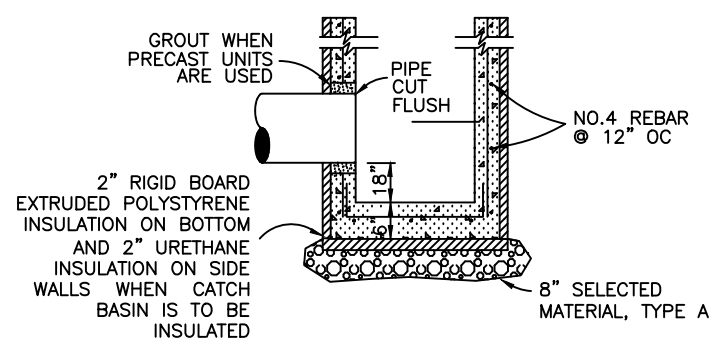
EJIW 7030T3 BACK GRATE OR APPROVED EQUAL (WHEN INLET IS LOCATED IN CURB CUT DEPRESSED SECTION):
GRATE: 7" X 37 3/4" W/ 12" R
WEIGHT: 105 LBS.

TYPICAL FIELD INLET

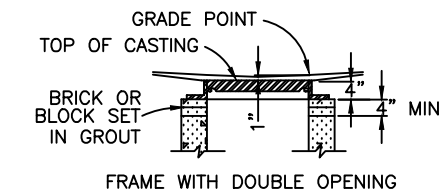
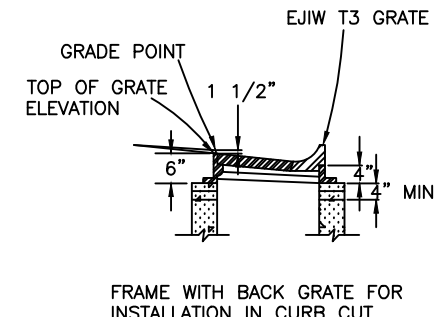
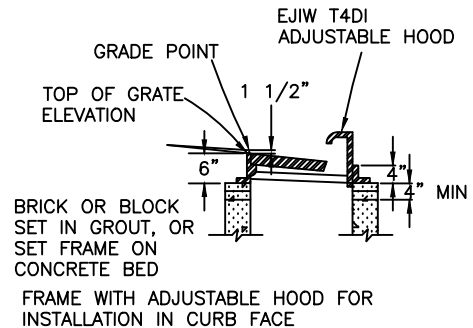
EJIW 7700M1 GRATE (2) EA OR APPROVED EQUAL
17 3/4" X 23 3/4" X 1 1/2".
OPEN AREA: 128 SQ. IN.



EJIW 7705Z HEAVY TRAFFIC LOADING FRAME WITH OPENINGS FOR (2) GRATES. WEIGHT: 216 LBS.
EMBOSSED LETTERING:
"DUMP NO POLLUTANTS"

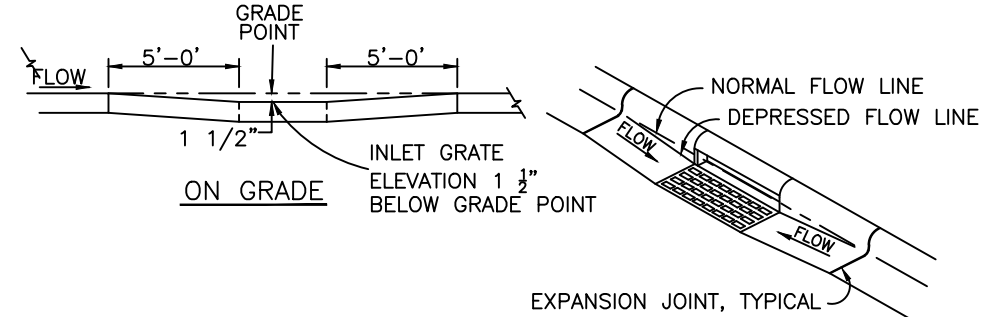


REINFORCED CATCH BASIN (STANDARD)



INLET BOX/CATCH BASIN DETAILS

NOT TO SCALE

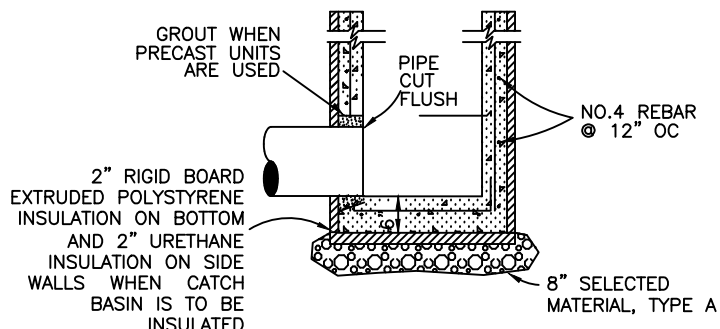


PLAIN ISOMETRIC

DEPRESSION IN FLOW LINE AT INLET

CATCH BASIN NOTES:

1. THE WORDS "INLET" AND "CATCH BASIN" SHALL BE INTERCHANGEABLE.
2. ALL GROUT SHALL BE NON-SHRINK. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
4. TYPICALLY, CATCH BASINS ARE NOT INSULATED. HOWEVER, SPECIAL CASES REQUIRE INSULATION OF ALL OUTSIDE SURFACES. SEE PLAN NOTE TO INSULATE CB.
5. GROUT THE INSIDE FACE OF ALL JOINTS SMOOTH.



NO SUMP CATCH BASIN

ALTERNATE USED WHERE INDICATED ON PLANS

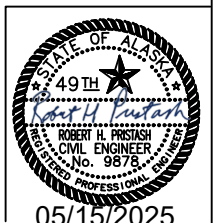
2/3/10	NEW SD2	GSC,RHP
3/23/07		RHP
DATE	REVISION	BY

NOT TO SCALE

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

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

STANDARD DETAILS
STORM DRAIN CATCH BASIN



05/15/2025

SD2