

PROJECT
LOCATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
PENDING/NFHWY00551

NORTHERN REGION ADA IMPROVEMENTS – FAIRBANKS: 6TH AVENUE
GRADING, DRAINAGE, AND PAVING

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	A1	32
			CDS ROUTE:	28549	MILEPOINT:	0.00 TO 0.17	

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND & SHEET LAYOUT INDEX
A3–A4	SURVEY CONTROL
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & GENERAL NOTES
E1–E5	MISCELLANEOUS DETAILS
F1–F2	PLAN & PROFILE
H1–H3	SIGNING & STRIPING
L1	LANDSCAPING
Q1	EROSION SEDIMENT CONTROL PLANS
T1	TRAFFIC CONTROL PLANS (and/or DEVICES)
U1–U5	UTILITIES
V1–V8	STANDARD PLANS



THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:
COF CD1, COF CD2, COF SD1, COF SD2, S–01.02, S–00.12, S–30.05, S–05.02

PROJECT SUMMARY	
WIDTH OF PAVEMENT	
LENGTH OF GRADING	
LENGTH OF PAVING	
LENGTH OF PROJECT	

IVET HALL, P.E., PROJECT MANAGER
ADINA KEIRN, DESIGNER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: _____ DATE _____

Sarah E. Schacher, P.E.
Preconstruction Engineer, Northern Region
ACCEPTED FOR CONSTRUCTION: _____ DATE _____

JOSEPH P. KEMP, P.E.
Acting Regional Director, Northern Region

		NO.		DATE		REVISION		STATE		PROJECT DESIGNATION		YEAR		SHEET NO.		TOTAL SHEETS	
								ALASKA		PENDING/NFHWY00551		2022		A2		32	

RECOVERED		SET		EXISTING		PROPOSED	
BLM MONUMENT							
GLO MONUMENT							
USC&GS MONUMENT							
PRIMARY MONUMENT							
CENTERLINE MONUMENT IN CASING							
PRIMARY R.O.W. MONUMENT							
BEARING OBJECT							
MISCELLANEOUS MONUMENT							
LINE OF SIGHT MONUMENT							
CONCRETE R.O.W. MONUMENT							
BENCHMARK							
REBAR AND CAP							
REBAR							
IRON PIPE							
PK NAIL							
SPIKE							
HUB AND TACK							
CONSTRUCTION CENTERLINE							
MISCELLANEOUS CENTERLINE							
STATION EQUATION							
PROJECT RIGHT-OF-WAY LINE							
EXISTING RIGHT-OF-WAY LINE							
EXISTING PROPERTY LINE							
CONTROLLED ACCESS LINE							
UTILITY EASEMENT LINE							
TEMPORARY EASEMENT LINE (TCP OR TCE)							
ACCESS OR SECTION LINE EASEMENT							
PROPOSED CUT SLOPE LIMIT							
PROPOSED FILL SLOPE LIMIT							
SECTION LINE							
1/4 SECTION LINE							
1/16 SECTION LINE							
TOWNSHIP & RANGE LINE							

SANITARY SEWER (FLOW DIRECTION →)					
FUEL LINE					
GAS LINE					
WATER LINE					
METER, VALVE, FIRE HYDRANT					
EXISTING STORM DRAIN (FLOW DIRECTION →)					
PROPOSED STORM DRAIN					
FIBER OPTIC LINE					
DIRECT BURIAL TELEPHONE CABLE					
DIRECT BURIAL ELECTRIC CABLE					
ELECTRIC LINE (OVERHEAD)					
POWER POLE LINE					
JOINT USE POWER & TELEPHONE					
TELEPHONE POLE LINE					
POLE ANCHOR					
STUB POLE (POWER OR TELEPHONE)					
TELEPHONE DUCT					
TELEPHONE PEDESTAL					
BURIED CABLE MARKER					
PIPELINE MARKER OR VALVE					
CATCH BASIN OR DROP INLET					
MANHOLE					
SANITARY SEWER CLEAN OUT					

ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
RAILROAD TRACKS		
RAILROAD DEVICES		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		

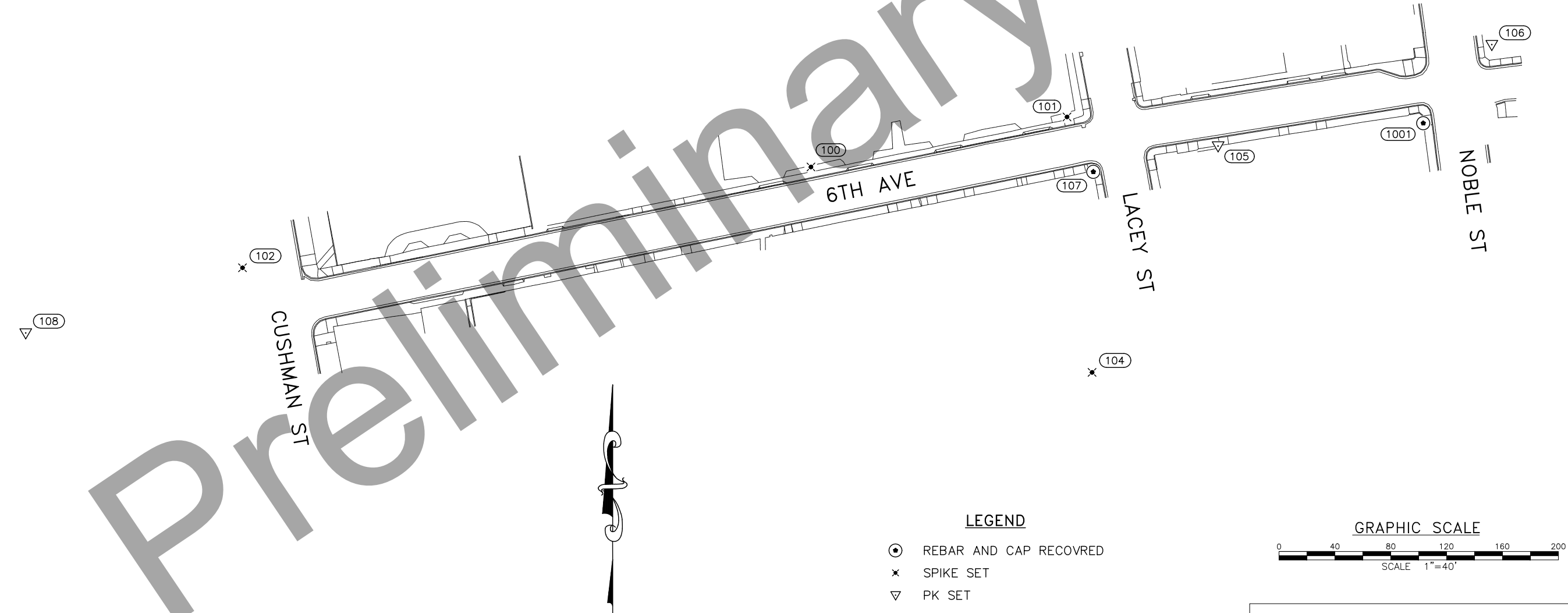
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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GENERAL NOTES

1. VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE. ON MULTI YEAR PROJECTS, VERIFY ALL CONTROL ON A SEASONAL BASIS.
2. BACKGROUND MAPPING IS SHOWN FOR ORIENTATION PURPOSES ONLY. THIS SHEET DOES NOT PURPORT TO DEPICT RIGHT OF WAY.
3. ALL DISTANCES SHOWN ARE GROUND DISTANCES, IN U.S. SURVEY FEET.
4. 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)
5. THE BASIS OF COORDINATES IS THE NAD83(2011)(EPOCH:2010.0000) OPUS AVERAGED POSITION OF CONTROL POINT 5, A PRIMARY MONUMENT STAMPED "GOLDEN HEART"
6. BASIS OF BEARING IS FAIRBANKS LDP.
7. THE BASIS OF ELEVATIONS IS THE OPUS AVERAGED GEOID12A (NAVD88) ELEVATION OF 443.10 FT AT "GOLDEN HEART", POINT 5, NOT SHOWN ON THIS SHEET. POINT 5 IS NORTH A FEW BLOCKS..

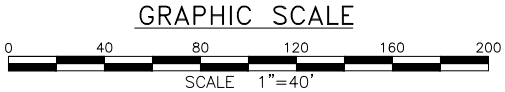
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	A3	32

CONTROL MONUMENTS						
POINT NO.	NORTHING	EASTING	ELEVATION	LATITUDE	LONGITUDE	DESCRIPTION
5	198711.34	677567.55	443.10	N64° 50' 39.8316"	W147° 43' 11.2542"	PRIM MON FND HEART (NOT SHOWN)
100	197610.85	677859.81	441.19	N64° 50' 29.0376"	W147° 43' 04.1810"	SPIKE SET
101	197646.68	678043.12	440.56	N64° 50' 29.4125"	W147° 42' 59.9532"	SPIKE SET
102	197538.73	677452.85	441.96	N64° 50' 28.2780"	W147° 43' 13.5691"	SPIKE SET
104	197463.86	678061.04	442.62	N64° 50' 27.6156"	W147° 42' 59.4865"	SPIKE SET
105	197625.85	678151.23	440.69	N64° 50' 29.2207"	W147° 42' 57.4477"	PK SET
106	197698.39	678347.20	442.21	N64° 50' 29.9583"	W147° 42' 52.9375"	PK SET
107	197607.38	678061.95	440.51	N64° 50' 29.0280"	W147° 42' 59.5064"	REBAR CAP FND L15/B 87/ROW 12136-S 2019
108	197492.04	677297.63	442.74	N64° 50' 27.7996"	W147° 43' 17.1444"	PK SET
1001	197642.18	678298.16	442.11	N64° 50' 29.3993"	W147° 42' 54.0553"	REBAR CAP FND 11798-S 2018

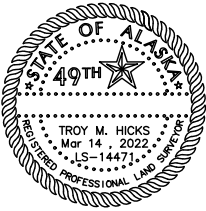


LEGEND

- REBAR AND CAP RECOVERED
- SPIKE SET
- PK SET



SURVEY CONTROL



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 BASIS OF COORDINATES IS THE NAD83(2011)(EPOCH: 2010.0000) OPUS AVERAGED POSITION OF RECOVERED CONTROL POINT 5 "HEART".

BASIS OF BEARING IS FAIRBANKS LDP.

ROW LINES SHOWN WERE DONE BY CITY OF FAIRBANKS (HENRY IRVING).

2021 EXTRA PICKUP SURVEY WAS DONE TO GET MORE BUILDING LOCATION DETAIL AND SOME EXTRA SIDEWALK AND CURB. FROM TIME OF SURVEY IN 2020 TO NOV 2021 THERE HAS BEEN SOME IMPROVEMENTS DONE ON LOTS. THIS SURVEY ATTEMPTS TO CORRECT FOR THAT.

HORIZONTAL CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
26	197829.64	678043.64	440.4	SI 5TH LACY
28	197862.30	678294.06	441.1	SI 5TH NOBLE
29	197661.98	678320.86	441.5	SI 6TH NOBLE
30	197634.85	678079.70	439.9	SI 6TH LACEY N
31	197631.50	678080.32	439.7	SI 6TH LACEY S
33	197316.07	677522.81	442.6	SI 7TH CUSH S
34	197324.40	677521.30	442.4	SI 7TH CUSH N
35	197511.22	677487.89	442.0	SI 6TH CUSH
36	197715.16	677451.38	441.3	SI 5TH CUSH
47	197775.17	677634.60	442.1	SPIKE

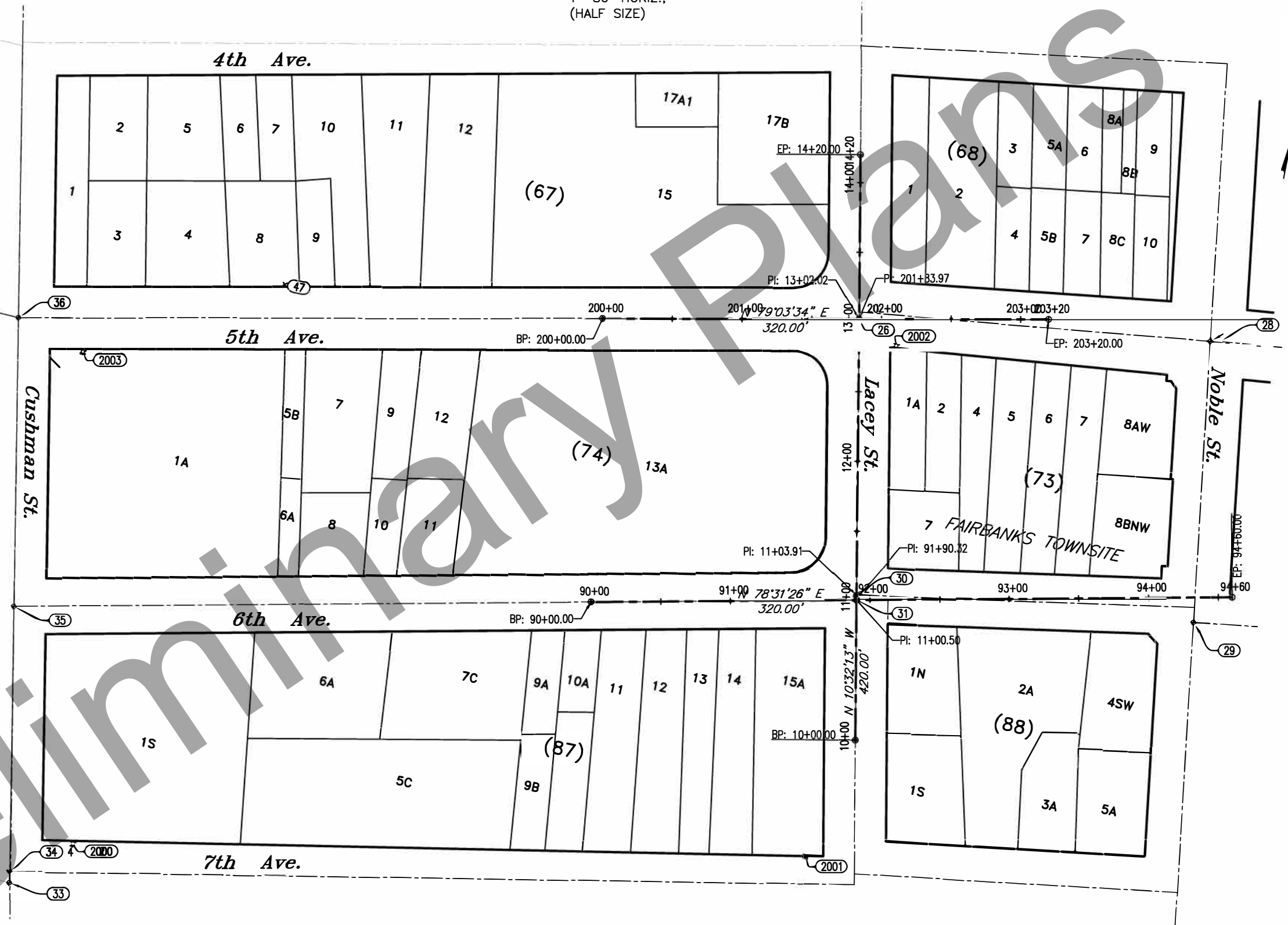
VERTICAL CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2000	197352.4	677562.0	444.67	FH 7TH CUSH
2001	197444.1	678079.8	444.46	FH 7TH LACEY
2002	197816.1	678073.6	443.35	FH 5TH LACEY
2003	197700.1	677501.7	444.11	FH 5TH CUSH

1"=40' HORIZ.,
(FULL SIZE)

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

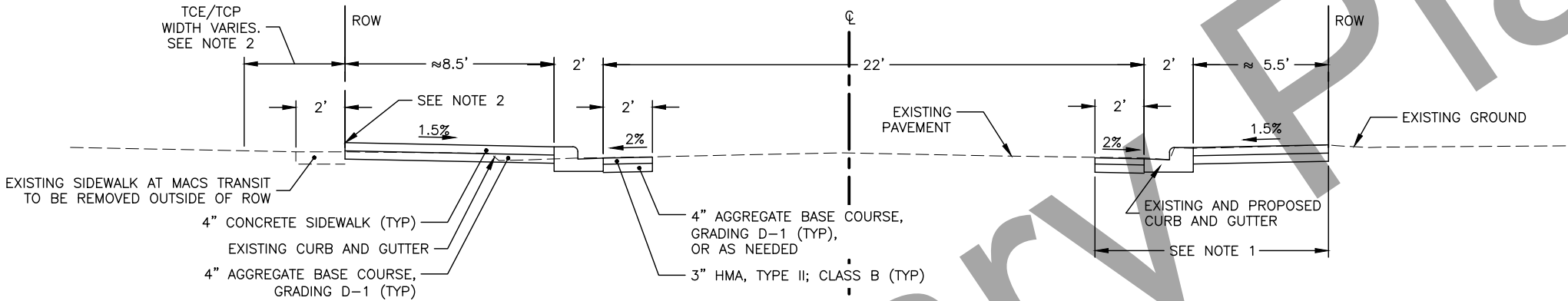
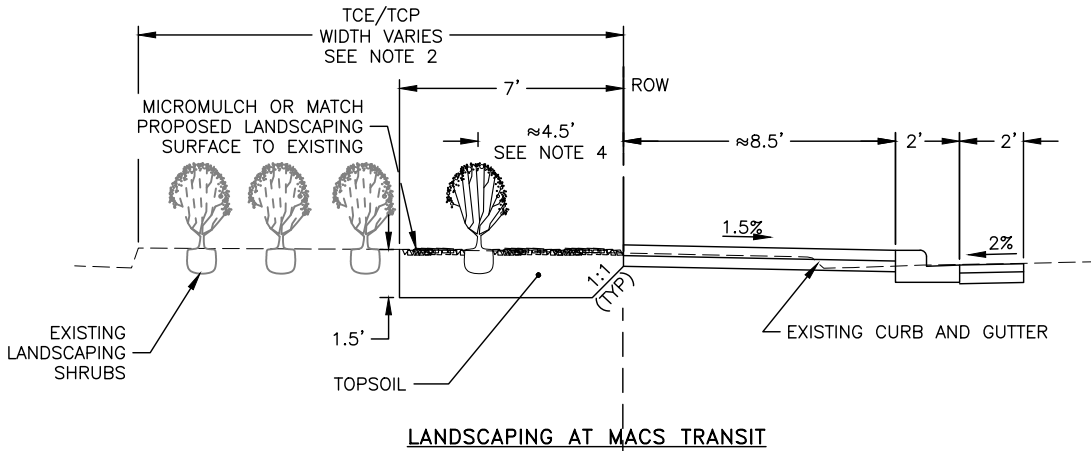
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALA SKA	PENDIN G/NFWH Y00551	2022	A4	A4



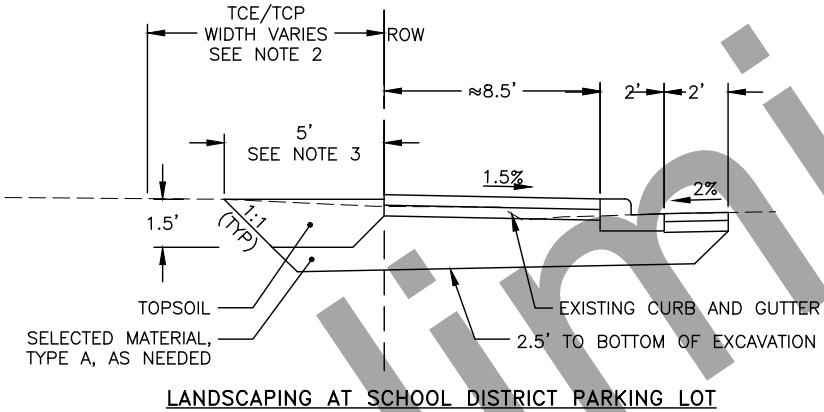
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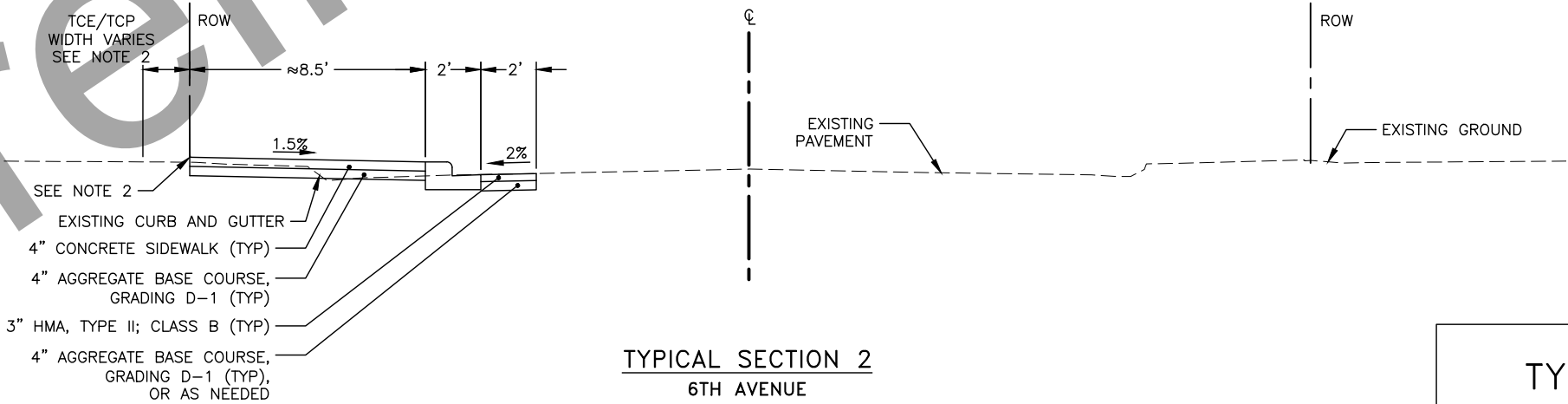
- NOTES:
1. SIDEWALK ON THE SOUTH SIDE OF 6TH AVENUE IS ONLY BEING REPLACED AT LOCATIONS SHOWN ON F SHEETS.
 2. EXCEPT DRIVEWAYS AND LANDSCAPING, NO WORK BEHIND BACK OF SIDEWALK REQUIRED UNLESS DIRECTED BY THE PROJECT ENGINEER. SEE PLANS FOR DRIVEWAY AND LANDSCAPING LOCATIONS WITHIN TCE OR TCP.
 3. FIVE-FOOT LANDSCAPING STRIP (TYP). SEE PLANS FOR EXACT LOCATION AT THE FNSB SCHOOL DISTRICT PARKING LOT.
 4. SEE F AND L SHEETS FOR LANDSCAPING LOCATION AT THE MACS TRANSIT. DEMO EXISTING SIDEWALK AND BUMP-OUTS, AND PREPARE BEDS PER SECTION 621. PLANT SHRUBS 4.5 FEET FROM PROPOSED BACK OF SIDEWALK.



TYPICAL SECTION 1
6TH AVENUE
EAST OF CUSHMAN STREET

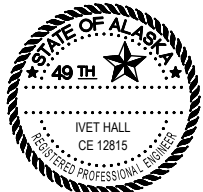


LANDSCAPING AT SCHOOL DISTRICT PARKING LOT



TYPICAL SECTION 2
6TH AVENUE

TYPICAL SECTIONS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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ESTIMATE OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	PAY UNIT	QUANTITY
201.0006.0000	SELECTIVE TREE REMOVAL	EACH	5
201.0009.0000	CLEARING AND GRUBBING	LS	ALL REQUIRED
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQUIRED
202.0002.0000	REMOVAL OF PAVEMENT	SY	579
202.0003.0000	REMOVAL OF SIDEWALK	SY	428
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	970
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	407
203.0006.000A	BORROW, TYPE A	TON	256
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	456
304.0001.000F	SUBBASE, GRADING F	TON	675
306.0001.0000	ATB	TON	40
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	TON	4
401.0001.002B	HMA, TYPE II; CLASS B	TON	189
401.0004.5228	ASPHALT BINDER, GRADE PG 52-28	TON	2
401.0004.5240	ASPHALT BINDER, GRADE 52-40	TON	9
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQUIRED
603.0021.0008	CORRUGATED POLYETHYLENE PIPE 8 INCH	LF	40
603.0021.0012	CORRUGATED POLYETHYLENE PIPE 12 INCH	LF	185
603.0021.0018	CORRUGATED POLYETHYLENE PIPE 18 INCH	LF	275
604.0001.0000	STORM SEWER MANHOLE	EACH	2
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	1
604.0005.000A	INLET, TYPE A	EACH	6
604.0006.0000	RELOCATE INLET	EACH	3
604.0016.0000	ADJUST INLET FRAME AND GRATE	EACH	2
608.0001.0004	CONCRETE SIDEWALK, 4 INCHES THICK	SY	476
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SY	483
608.0006.0000	CURB RAMP	EACH	5
609.0002.0001	CURB AND GUTTER, TYPE 1	LF	1060
615.0001.0000	STANDARD SIGN	SF	56
618.0005.0000	SEEDING	LS	ALL REQUIRED
620.0001.0000	TOPSOIL	SY	960
621.0002.0000	SHRUB, POTENTILLA (DASIPHORA FRUTICOSA), 24" TALL	EACH	14
621.0002.0000	SHRUB, ROSE (ROSA RUGOSA), 36" TALL	EACH	12
621.0002.0000	SHRUB, COTONEASTER (COTONEASTER ACUTIFOLIUS), 36" TALL	EACH	6
621.0002.0000	SHRUB, ASH LEAF SPIREA (SORBARIA SORBIFOLIA), 24" TALL	EACH	4
627.0001.0006	DUCTILE IRON WATER CONDUIT, 6 INCH, CLASS 50	EACH	275
627.0005.0000	FIRE HYDRANT INSTALLATION	EACH	1
627.0009.0006	GATE VALVE, 6 INCH	EACH	1
627.0008.0000	WATER SERVICE CONNECTION	EACH	3
639.0001.0000	DRIVEWAY	EACH	10
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQUIRED
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQUIRED
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LS	ALL REQUIRED
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CS	ALL REQUIRED
641.0006.0000	WITHHOLDING	CS	ALL REQUIRED
641.0007.0000	SWPPP MANAGER	LS	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQUIRED
642.0003.0000	THREE PERSON SURVEY PARTY	HR	10
642.0004.000	SET PRIMARY MONUMENT	EACH	2
642.0010.0000	MONUMENT CASE	EACH	2
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQUIRED
643.2005.0000	PUBLIC INFORMATION PROGRAM	LS	ALL REQUIRED

ESTIMATING FACTORS		
ITEM NO.	DESCRIPTION	FACTOR
203.0006.000A	BORROW, TYPE A	2 TONS/ CUBIC YARD
301.0001.00D1	AGGREGATE BASE COURSE, GRADE D-1	2 TONS/ CUBIC YARD
401.0001.002B	HMA, TYPE II; CLASS B	150 LBS/ CUBIC FOOT
401.0004.5228	ASPHALT BINDER, GRADE PG 52-28	6% OF ITEM 401.0001.002B

GENERAL NOTES:

- IT IS THE INTENT OF THIS CONTRACT TO REPLACE SECTIONS OF SIDEWALK AND CURB RAMPS WHILE MAINTAINING EXISTING DRAINAGE PATTERN.
- PERFORM ALL WORK WITHIN THE EXISTING ROW OR TEMPORARY CONSTRUCTION PERMIT OR EASEMENT. STAKE THE ROW LINE FOR ANY WORK BEHIND THE EXISTING BACK OF SIDEWALK TO AVOID TRESPASSING. SEE 642 SPECIFICATIONS.
- ANY APPURTENANCES DAMAGED AS A RESULT OF CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED TO PREEXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION ACTIVITY SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 A.M. AND 11:00 P.M.
- REMOVAL AND DISPOSAL OF EXISTING ASPHALT PAVEMENT, CURB AND GUTTER, AND CONCRETE SIDEWALK SHOWN ON THE PLANS WILL BE PAID FOR UNDER PAY ITEM 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- ENGINEER WILL APPROVE SIDEWALK BOUNDARY REPLACEMENT ON LACEY STREET PRIOR TO REMOVAL. THE REMOVAL OF STRUCTURES AND OBSTRUCTIONS NOT SHOWN ON PLANS WILL BE PAID FOR UNDER PAY ITEM 202.0013.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- ITEM 301.0001.00D1 AGGREGATE BASE COURSE, GRADING D-1 IS INCLUDED TO ACHIEVE FINAL GRADING AND COMPACTION OF THOSE SURFACES LISTED IN THE SUMMARY TABLES LOCATED IN THE F SHEETS. A NOMINAL ONE INCH THICKNESS HAS BEEN ASSUMED FOR ALL SURFACES.
- PAY ITEM QUANTITIES SHOWN IN CURB RAMP TABLES FOR SIDEWALK AND CURB AND GUTTER INCLUDE LOWER LANDING, RAMP RUN AND UPPER LANDING SECTIONS OF THE CURB RAMPS.

PAVING NOTES:

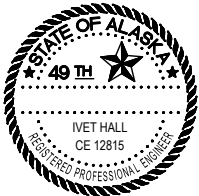
- GRADE AND PAVE ROAD SURFACE TO PROMOTE POSITIVE DRAINAGE.
- WHERE NEW PAVEMENT IS TO BE MATCHED TO EXISTING PAVEMENT, A STRAIGHT SAWCUT SHALL BE MADE AND THE EXISTING PAVEMENT EDGE SHALL BE CLEANED AND PAINTED WITH STE-1 ASPHALT FOR TACK COAT. IF DAMAGE OCCURS AS A RESULT OF SAWCUTTING, THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT COSTS. THIS WORK IS SUBSIDIARY TO 401.0001.002B.
- ADD CRUSHED AGGREGATE BASE COURSE, GRADING D-1 TO THE ROADWAY GRADE AS REQUIRED TO ACHIEVE THE BASE COURSE DEPTH SPECIFIED IN THE TYPICAL SECTIONS.
- ANY ADDITIONAL MONUMENTS ENCOUNTERED SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AND PAID FOR AT THE UNIT PRICE, 642.0006.0000.
- BRING ALL MONUMENT CASES AND UTILITY LIDS TO FINISHED GRADE PRIOR TO PAVING. DEPRESS LIDS 3/8 INCH BELOW PAVEMENT SURFACE.

APPROACH & DRIVEWAY NOTES:

- AT DRIVEWAYS, THE RESURFACED ROADWAY GRADE AND CROSS SLOPE SHALL TRANSITION INTO THE EXISTING DRIVEWAY SURFACE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS EXPECTED TO MODIFY GRADING AT DRIVEWAYS TO MEET TRANSITION REQUIREMENTS WHILE MAINTAINING POSITIVE DRAINAGE.

SIDEWALK, CURB RAMP AND CURB & GUTTER NOTES:

- MINOR ADJUSTMENTS SHALL BE MADE TO THE PROFILE OF THE CURB AND GUTTER TO PROMOTE POSITIVE DRAINAGE, SUCH AS TO AVOID PUDDLES BETWEEN APPROACHES. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.



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H:\Projects\Regional\rfw\00426 nr ada imprmnts\04 PS&E\09 C3D\FBKS 6TH\1 Plots\NFHWY00551_E-DIRECTIONAL CURB RAMP Mon, Mar/14/22 04:13pm

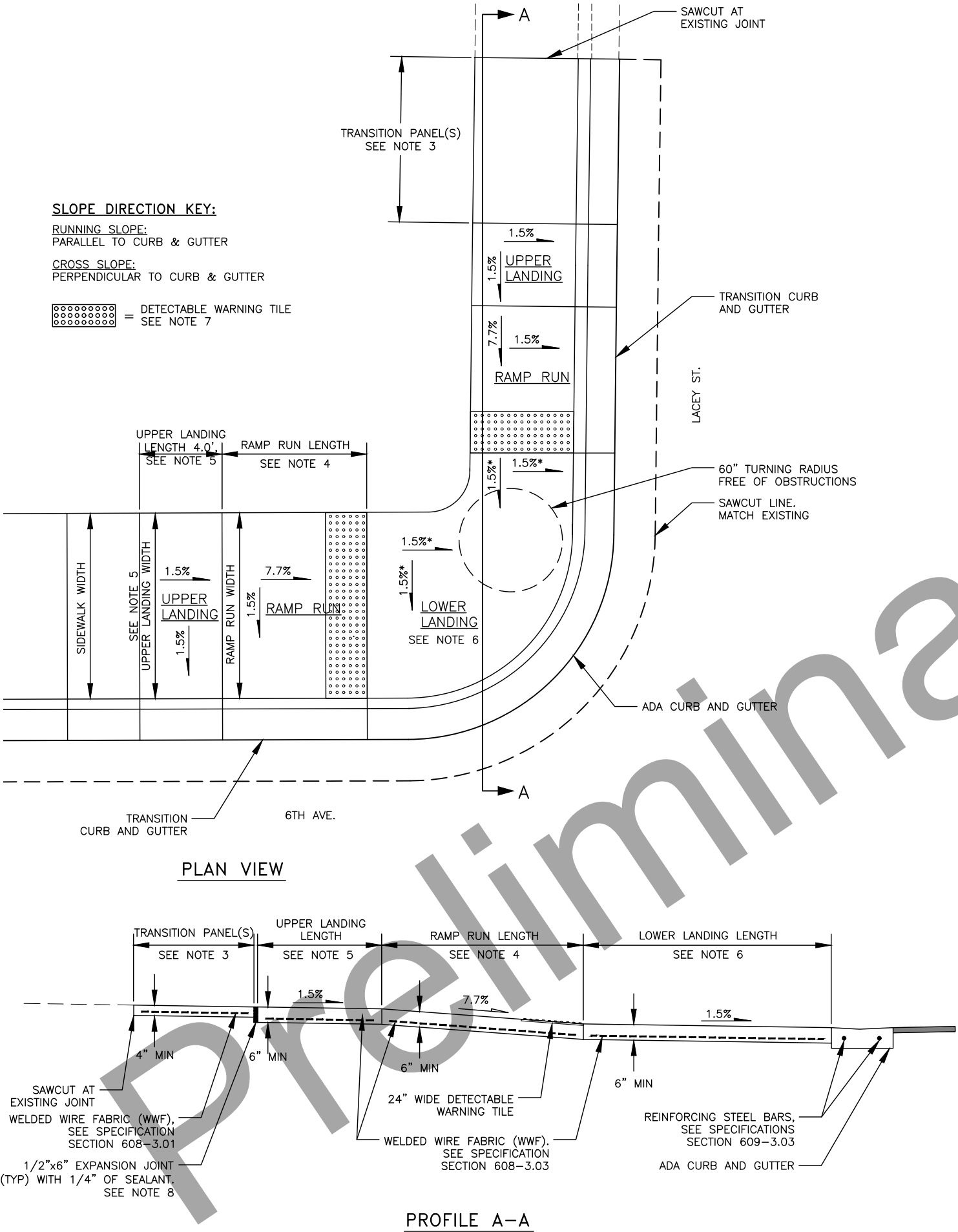
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NOTES:

- CONSTRUCT RAMP RUN AND BOTH UPPER AND LOWER LANDING OF 6" CONCRETE WITH COARSE BROOM FINISH IN THE DIRECTION OF THE CROSS SLOPE.
- NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT IF MAXIMUM OR MINIMUM GRADES CANNOT BE CONSTRUCTED. UNLESS PREVIOUSLY APPROVED BY THE ENGINEER, ANY FEATURE EXCEEDING MINIMUM OR MAXIMUM ALLOWABLE SLOPES WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- TRANSITION PANEL(S): WHEN CONNECTING INTO EXISTING SIDEWALK, REPLACE ADJACENT SIDEWALK PANEL(S) LABELED AS TRANSITION PANEL(S), AS REQUIRED FOR CROSS SLOPE TRANSITION FROM THE EXISTING SIDEWALK TO THE NEW UPPER LANDING TO ENSURE THE UPPER LANDING IS CONSTRUCTED WITH A COMPLIANT CROSS SLOPE.
- RAMP RUN LENGTH: SURVEY PRIOR TO CONSTRUCTION TO VERIFY RAMP RUN LENGTH REQUIRED FOR COMPLIANT SLOPES. ADJUST THE RAMP RUN LENGTH AS NEEDED TO ENSURE COMPLIANT RAMP RUN RUNNING SLOPE.
- UPPER LANDING LENGTH: CONSTRUCT UPPER LANDING LENGTH TO 4.0 FEET. UPPER LANDING LENGTH MAY BE DECREASED TO 3.0 FEET IF APPROVED BY THE ENGINEER.
UPPER LANDING WIDTH: UPPER LANDING WIDTH SHALL MATCH OR EXCEED THE MAXIMUM WIDTH OF THE RAMP RUN.
- LOWER LANDING LENGTH: LENGTH OF LOWER LANDING DEPENDS ON RAMP RUN WIDTH AND CURB RADII. ENSURE LOWER LANDING HAS A 5-FT DIAMETER TURNING SPACE.
- DETECTABLE WARNING TILE: INSTALL 24" DETECTABLE WARNING TILES FOR THE FULL WIDTH OF THE RAMP RUN.
- JOINTS: INSTALL CONTINUOUS MINIMUM 6 INCH DEEP 1/2" EXPANSION JOINT AT ALL LOCATIONS WHERE SIDEWALK, CURB RAMP, OR CURB AND GUTTER (ANY TYPE) MEET. SEAL ALL EXPANSION JOINTS WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO SPECIFICATIONS 705-2.02 JOINT SEALANT. EXPANSION AND DUMMY JOINTS IN THE SIDEWALK AND CURB RAMP SHALL LINE UP WITH EXPANSION AND DUMMY JOINTS IN THE CURB AND GUTTER.

SLOPES GUIDE			
	PREFERRED	MINIMUM	MAXIMUM
UPPER LANDING RUNNING SLOPE	1.5%	1.0%	5.0%
UPPER LANDING CROSS SLOPE	1.5%	1.0%	2.0%
RAMP RUN RUNNING SLOPE	7.7%	N/A	8.3%
RAMP RUN CROSS SLOPE	1.5%	1.0%	2.0%
LOWER LANDING RUNNING SLOPE*	1.5%	1.0%	2.0%
LOWER LANDING CROSS SLOPE*	1.5%	1.0%	2.0%

* LOWER LANDING CROSSSLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.

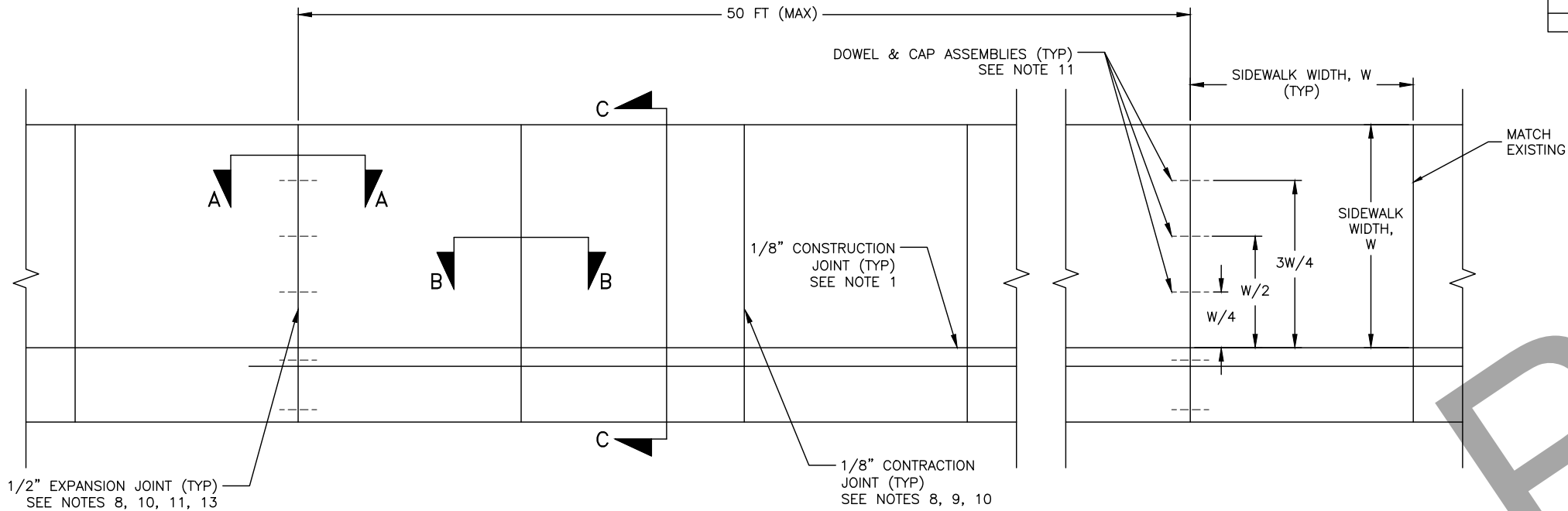


DIRECTIONAL CURB RAMP



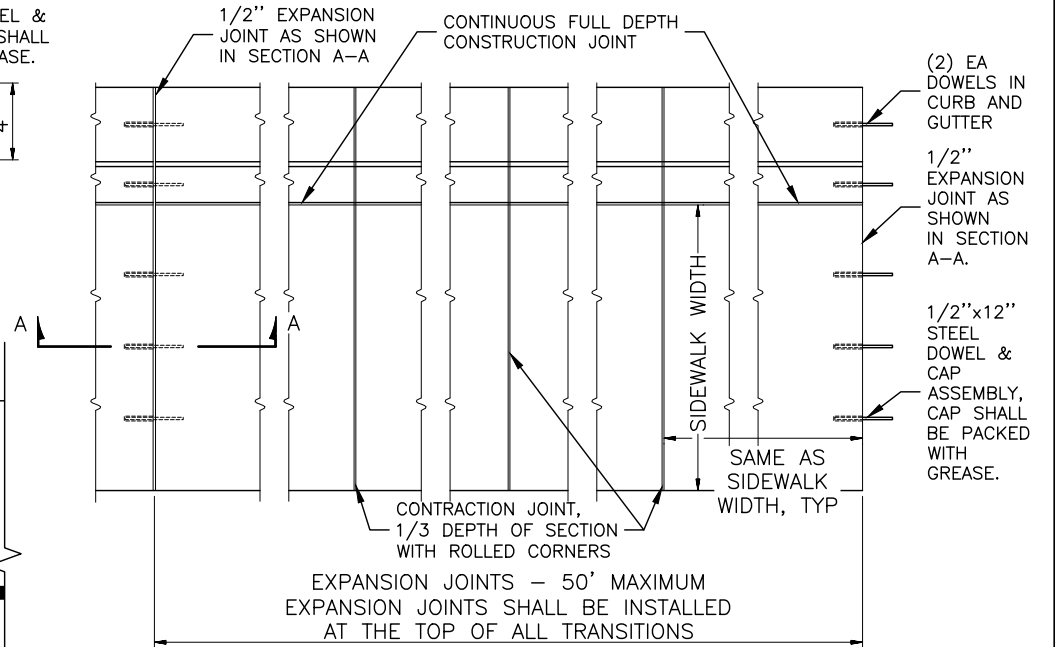
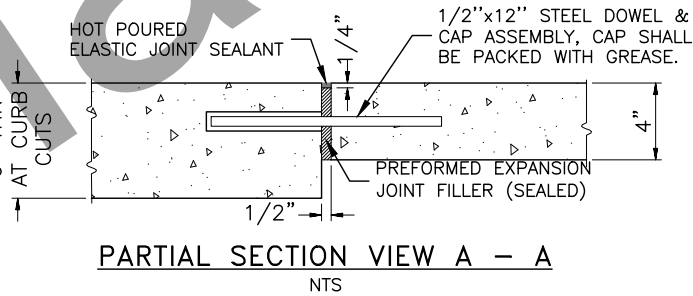
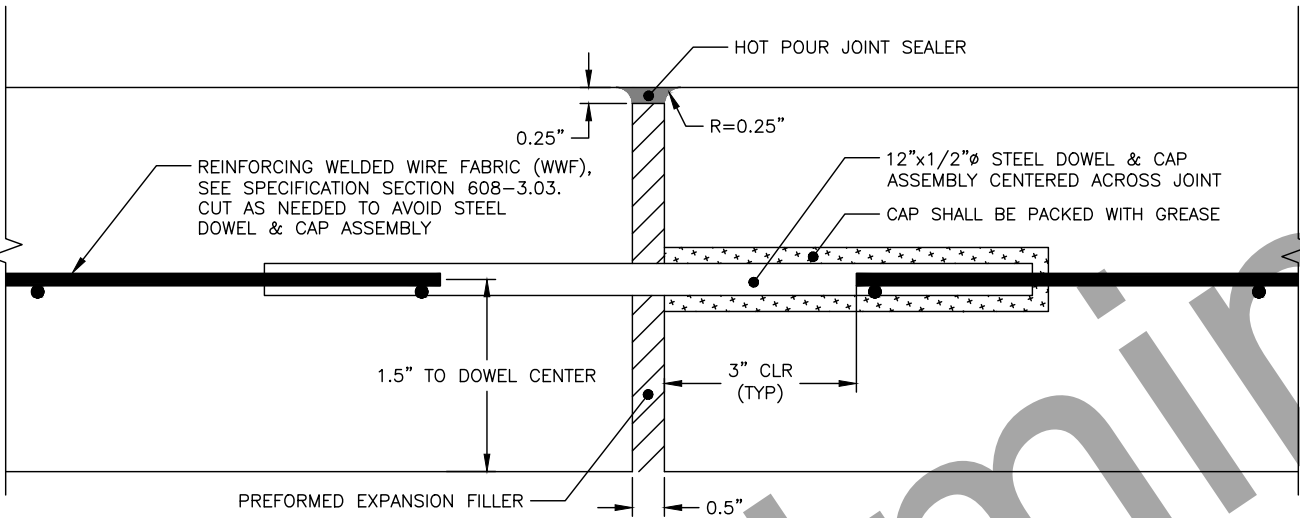
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H:\Projects\Regional\rfwy00426 nr ada imprmnts\04 PS&E\09 C3D\FBKS 6TH\1 Plots\NFHWY00551_E-CONCRETE SIDEWALK DETAILS Mon, Mar/14/22 04:13pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2021	E2	E6



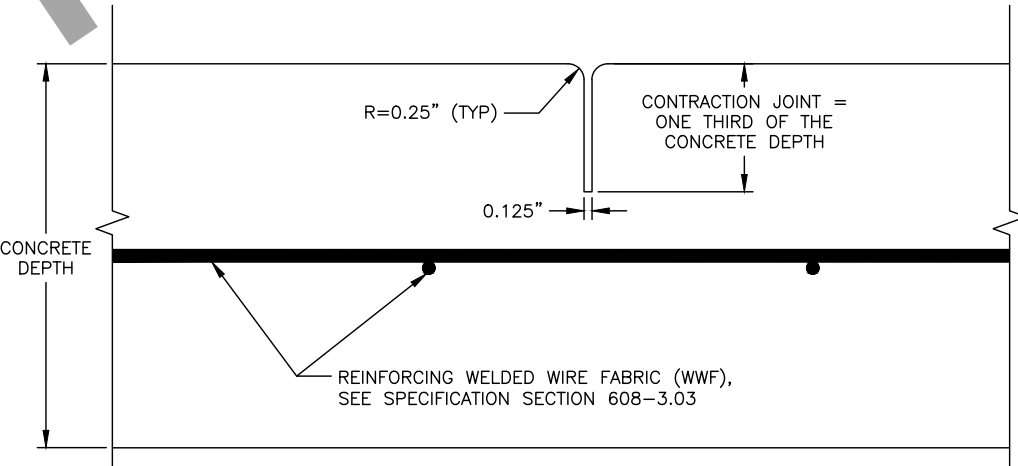
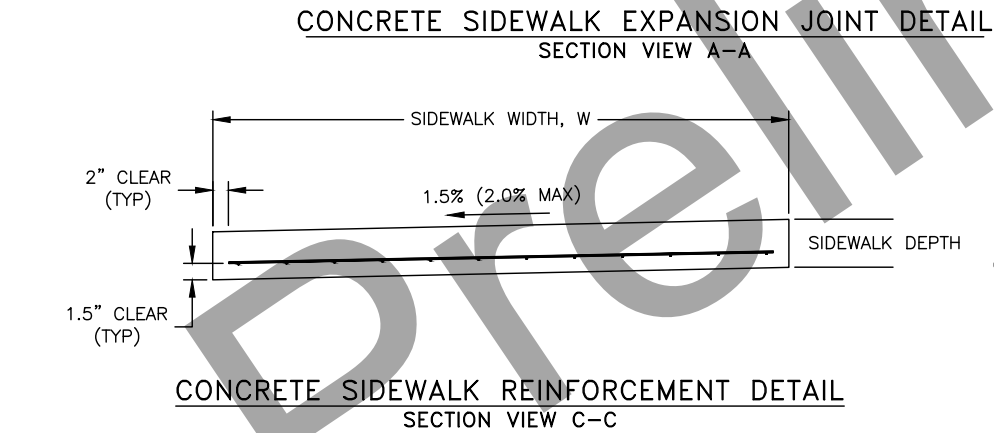
CONCRETE SIDEWALK NOTES:

1. INSTALL CONTINUOUS FULL DEPTH 1/8" CONSTRUCTION JOINT AT ALL LOCATIONS WHERE SIDEWALK AND CURB (ANY TYPE) MEET. USE CONTINUOUS BOND BREAKER (I.E., 6 MIL PLASTIC OR APPROVED EQUAL) BETWEEN THE SIDEWALK AND THE CURB.
2. PROTECT CONCRETE FROM DAMAGE DURING CURE. REPAIR OR REPLACE CONCRETE DAMAGED DURING CURE AS APPROVED BY THE ENGINEER.
3. CONCRETE SIDEWALKS SHALL RECEIVE A BROOM FINISH (MEDIUM) RUNNING PERPENDICULAR TO THE SIDEWALK CENTERLINE.
4. FOR SIDEWALKS LARGER OR DIFFERENTLY CONFIGURED THAN SHOWN, PLACE EXPANSION AND CONTRACTION JOINTS AS DIRECTED BY THE ENGINEER.
5. INSTALL 1/2" CONSTRUCTION JOINT MATERIAL BETWEEN NEW CONCRETE AND ADJACENT BUILDINGS, POLES, GABIONS, AND HYDRANTS.
6. SIDEWALK REINFORCEMENT SHALL BE SET ON SPACERS AND PULLED UP WHILE PLACING CONCRETE TO POSITION IT THE REQUIRED CLEAR DISTANCE FROM THE BOTTOM OF SIDEWALK.
7. EXPANSION AND CONTRACTION JOINTS IN THE SIDEWALK SHALL LINE UP WITH EXPANSION AND CONTRACTION JOINTS IN THE CURB. THE ENGINEER MAY ADJUST THE LOCATION OF EXPANSION OR CONTRACTION JOINTS.
8. CONTRACTION JOINT SPACING FROM EXPANSION JOINTS OR OTHER CONTRACTION JOINTS SHALL BE THE SPECIFIED WIDTH (W) OF THE CONCRETE SIDEWALK.
9. UNLESS OTHERWISE NOTED, EXPANSION AND CONTRACTION JOINTS SHALL BE PERPENDICULAR TO THE CONCRETE SIDEWALK CENTERLINE.
10. WHERE EXPANSION JOINTS ARE SPECIFIED AT THE MATCH LIMITS FOR NEW CONCRETE SIDEWALK AGAINST EXISTING CONCRETE SIDEWALK, SAW CUT THE EXISTING SIDEWALK TO FULL DEPTH PRIOR TO REMOVAL. DRILL AND CLEAN THE HOLE, PACK WITH GREASE AND INSTALL DOWEL & CAP ASSEMBLIES INTO THE EXISTING CONCRETE.
11. DOWEL & CAP ASSEMBLIES AT EXPANSION JOINTS SHALL BE EQUALLY SPACED FROM CENTER OF DOWEL TO CENTER OF DOWEL AND LOCATED AT THE 1/4, 1/2, AND 3/4 SIDEWALK WIDTH (W) DIVISIONS.
12. EXPANSION JOINTS SHALL BE INSTALLED AT THE TOP OF ALL TRANSITIONS TO PEDESTRIAN CURB RAMPS.
13. APPLY STE-1 TACK COAT BETWEEN CONCRETE SURFACES AND ADJOINING ASPHALT.



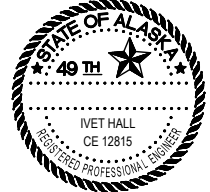
DETAIL A EXPANSION SIDEWALK & CURB AND GUTTER JOINT

PLAN VIEW
NTS



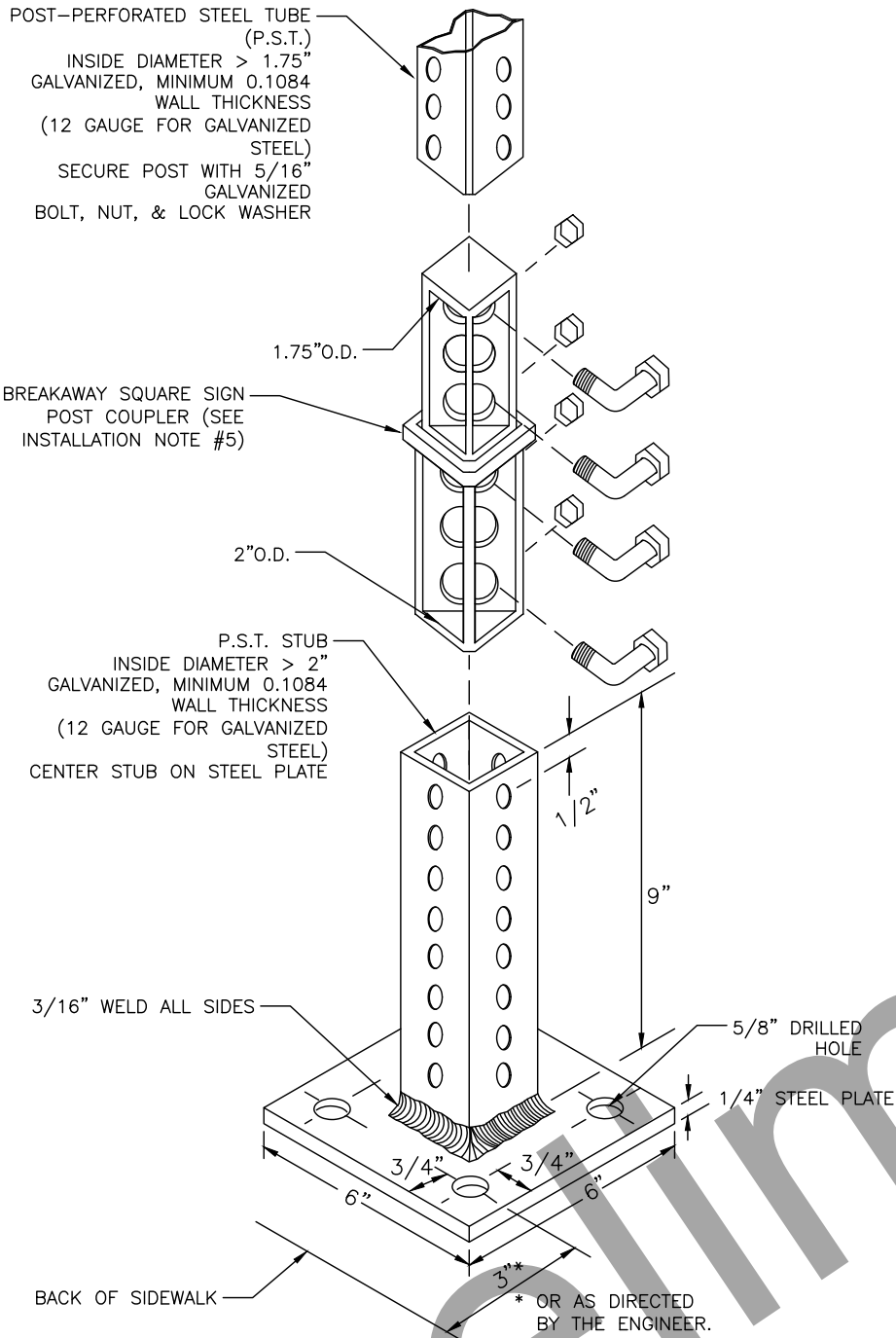
CONCRETE SIDEWALK CONTRACTION JOINT DETAIL
SECTION VIEW B-B

CONCRETE SIDEWALK
DETAILS



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INSTALLATION NOTES

1. DRILL FOUR (4) 1/2" HOLES IN SIDEWALK USING PLATE AS TEMPLATE. (DEPTH AS REQUIRED)
2. INSTALL STUB AND PLATE WITH FOUR (4) HILTI EXPANSION ANCHORS CAT. NO. HDI 3/8" OR APPROVED EQUAL. USE FOUR (4) 3/8" GALAVANIZED BOLTS AND FLAT WASHERS.
3. DO NOT SHIM BASE, PLUMB STUB BY HEATING AT PLATE.
4. INSTALL STUBS FOR NO PARKING SIGNS AT 45° FACING TRAFFIC.
5. COUPLER SPECIFICATIONS IN SPECIAL PROVISIONS, SECTION 615-2.01.

SIDEWALK MOUNTING STUB FOR SIGN POSTS
NOT TO SCALE

GENERAL NOTES:

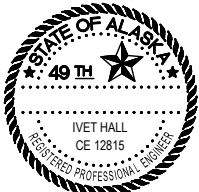
1. SAWCUT ALL MATCH POINTS WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK OR CURBING ABUTS EXISTING. SAWCUTS SUBSIDIARY TO RESPECTIVE PAY ITEMS.
2. ALL WORK IS TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY (ROW). CLEARING WITHIN ROW IS SUBSIDIARY TO BID ITEM 202(1).
3. PROTECT EXISTING FENCES, RETAINING WALLS AND IMPROVEMENTS ADJACENT TO PROJECT LIMITS. PAYMENT FOR PROTECTION OF FENCES, RETAINING WALLS AND OTHER EXISTING IMPROVEMENTS SUBSIDIARY TO SIDEWALK INSTALLATION.
4. IF PROPERTY CORNERS CANNOT BE PROTECTED AND PRESERVED IN PLACE, THEY ARE TO BE REFERENCED AND REPLACED BY CONTRACTOR'S REGISTERED LAND SURVEYOR. PAID BY 642(7) BID ITEM. QUANTITY INDICATED IN BID SCHEDULE IS ESTIMATED, LOCATIONS TO BE DETERMINED IN FIELD.
5. FOR ALL DRIVEWAYS (CURB CUTS), CONTRACTOR TO VERIFY MATCH POINT BEHIND BACK OF SIDEWALK TO PROVIDE SLOPE OF 1:12 (8.33%) OR LESS. FOR ESTIMATING PURPOSES, 5-8 FOOT REPAVING DEPTH ASSUMED IN MATERIAL QUANTITIES DETERMINATION. ACTUAL REPAVING DEPTH WILL VARY, AS SHOWN IN THE DRIVEWAY SUMMARY AND AS DETERMINED BY CONTRACTOR VERIFICATION OF MATCH POINT.
6. REPAVE MATERIALS BEHIND CURB CUTS SHALL MATCH DRIVEWAY.
7. PAVEMENT STRUCTURE FOR ASPHALT DRIVEWAYS SHALL BE 2" OF ASPHALT OVER 4" D-1.
8. PAVEMENT STRUCTURE FOR CONCRETE DRIVEWAY SHALL BE 4" CONCRETE OVER 6" OF SMTA.
9. ALL NEW SIDEWALK CURB FACE SHALL MATCH EXISTING CURB FACE.
10. CONTRACTOR RESPONSIBLE FOR STORING REMOVED SIGNS SO THAT THEY ARE PROTECTED FROM DAMAGE OR THEFT UNTIL RE-INSTALLED.
11. SIDEWALK MOUNT ALL SIGNS THAT NEED TO BE REMOVED AND REPLACED DURING CONSTRUCTION. USE BREAKAWAY SIGN COUPLER (REFERENCE THIS SHEET AND SPECIAL PROVISION SECTION 615).
12. 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(1). COORDINATE DELIVERY WITH PUBLIC WORKS, 907-459-6770.

STORM DRAIN NOTES:

1. SEVERAL CURB RAMPS ARE TO BE INSTALLED WHERE CATCH BASINS HOODS WILL BE LOCATED IN TRANSITION SECTIONS. MODIFY HOOD AND BOLTS SO THAT TOP OF HOOD IS FLUSH WITH CURB.

UTILITY NOTES:

1. NUMEROUS UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND GET LOCATES PRIOR TO ANY EXCAVATION.
2. PRIOR TO REMOVAL, REFERENCE MARKER LOCATION FOR GAS, BURIED CABLE, OR STORM DRAIN, SUBSIDIARY TO OTHER ITEMS OF WORK. WHEN REQUIRED, OBTAIN PERMISSION OF UTILITY OWNER PRIOR TO TEMPORARY MARKER POST REMOVAL.
3. WORK IS REQUIRED UNDER EXISTING OVERHEAD CABLES. PROTECT EQUIPMENT AND PERSONNEL AS REQUIRED SUBSIDIARY TO THOSE WORK ITEMS.

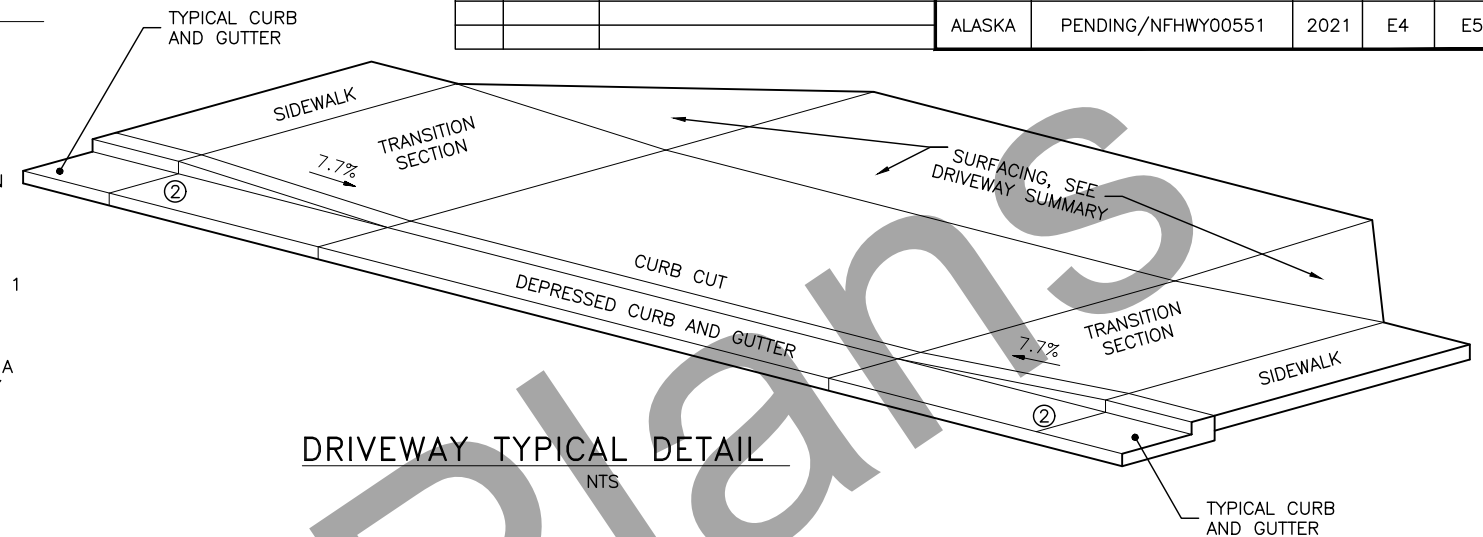


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H:\Projects\Regional\rfwy00426 nr ada imprmnts\04 PS&E\09 C3D\FBKS 6TH\1 Plots\NFHWY00551_E-PROJECT DETAILS (2) Mon, Mar/14/22 04:13pm

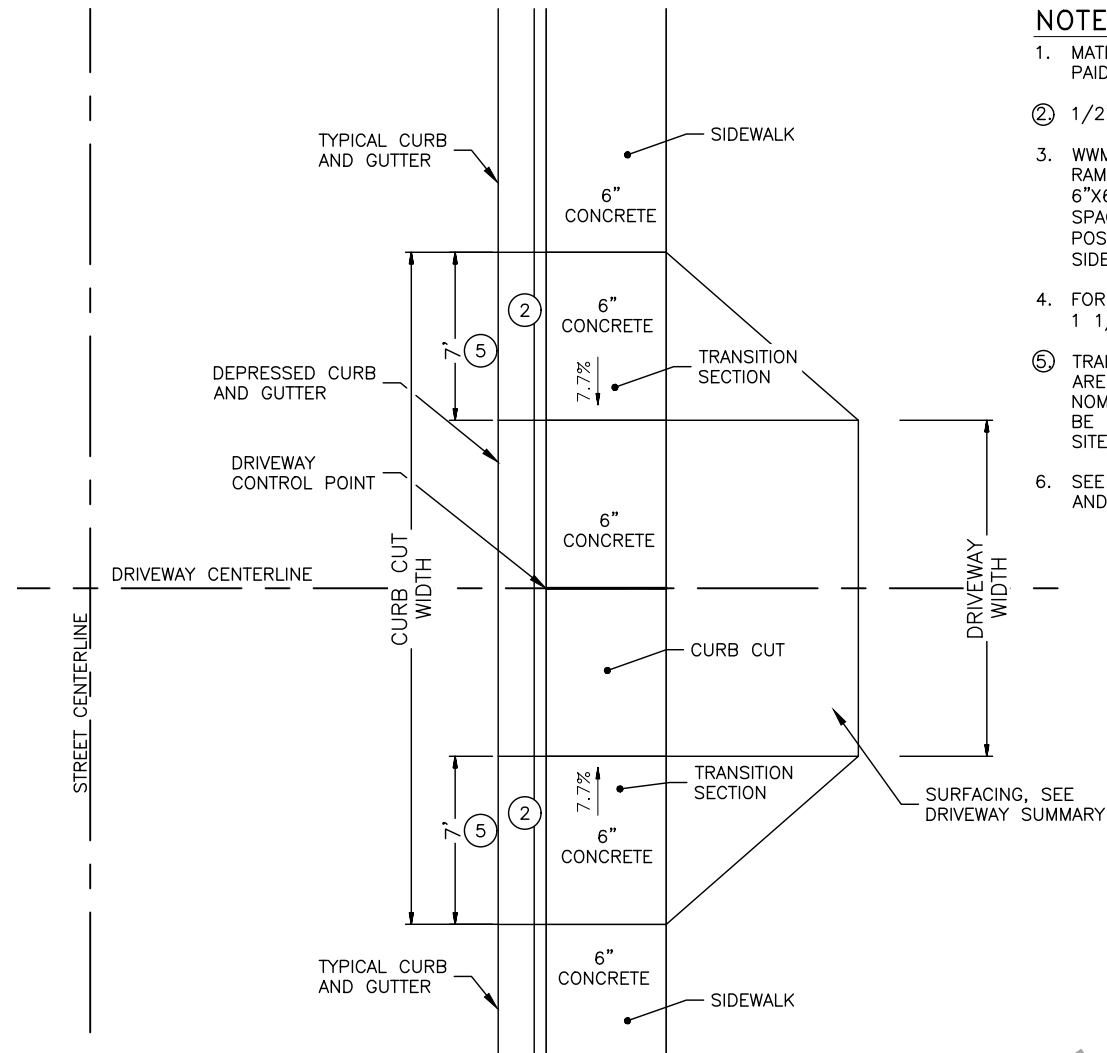
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2021	E4	E5

NOTES:

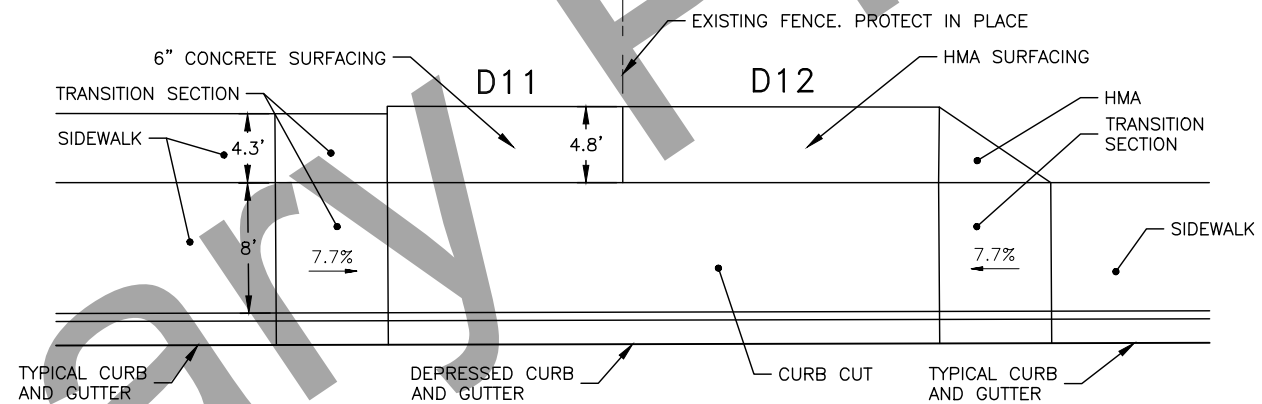
1. MATERIAL FOR CONSTRUCTION OF DRIVEWAY IS PAID FOR UNDER THE RESPECTIVE PAY ITEM.
2. 1/2" EXPANSION JOINTS.
3. WWM STEEL REINFORCEMENT FOR PEDESTRIAN RAMPS AND CURB CUTS SHALL BE 6"x6"-W2.9XW2.9. ALL STEEL SHALL BE SET ON SPACERS AND PULLED UP AS REQUIRED TO POSITION STEEL 1 1/2' UP FROM BOTTOM OF SIDEWALK.
4. FOR SIDEWALK REINFORCEMENT, POSITION STEEL 1 1/2" UP FROM BOTTOM OF SIDEWALK.
5. TRANSITION SECTION LENGTHS SHOWN IN PLANS ARE APPROXIMATE. CONSTRUCT TRANSITIONS AT A NOMINAL 7.7% GRADE OR FLATTER. SLOPES MAY BE INCREASED TO A MAXIMUM OF 8.3% WHERE SITE CONDITIONS WARRANT.
6. SEE DRIVEWAY SUMMARY FOR DRIVEWAY LENGTH AND MATERIAL TYPE.



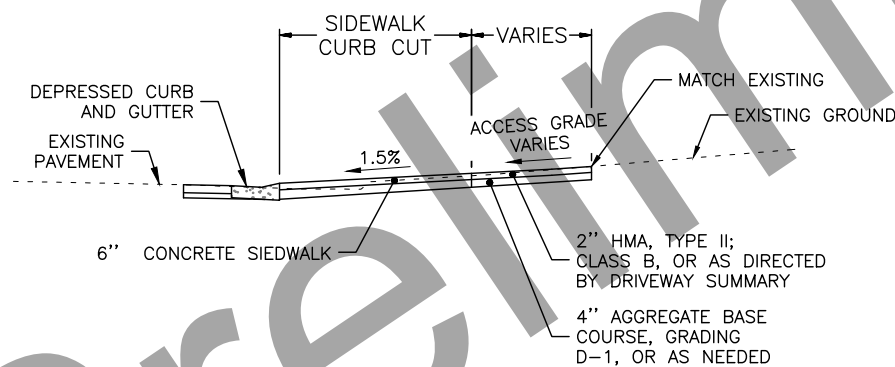
DRIVEWAY TYPICAL DETAIL
NTS



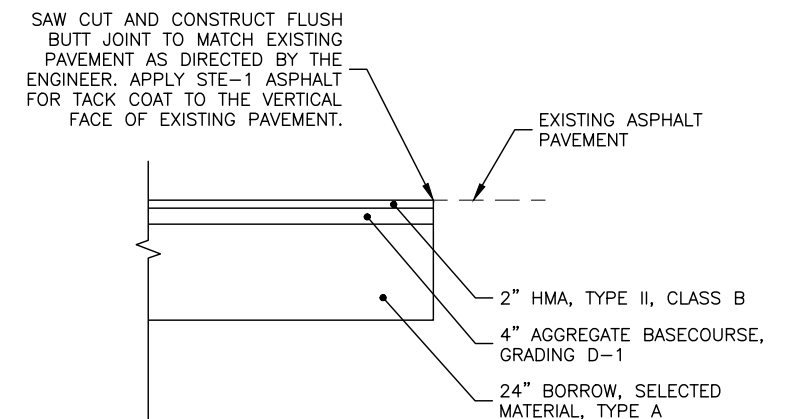
DRIVEWAY TYPICAL PLAN DETAIL
NTS



DRIVEWAY D11 AND D12 DETAIL
NTS

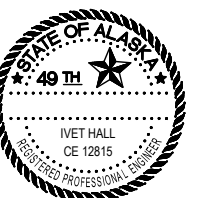


DRIVEWAY TYPICAL SECTION DETAIL
NTS



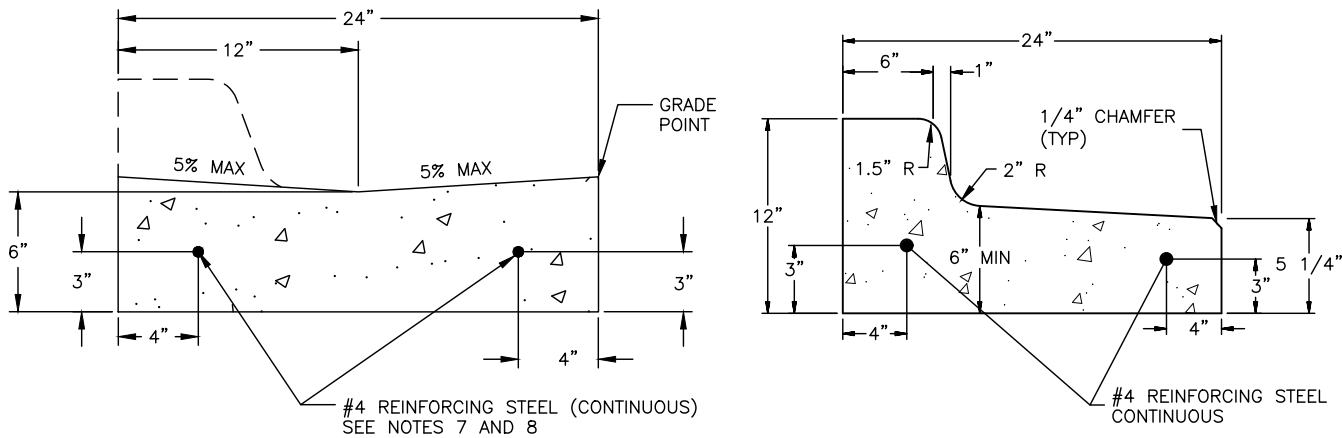
SCHOOL DISTRICT PARKING LOT PAVEMENT SECTION
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PROJECT DETAILS



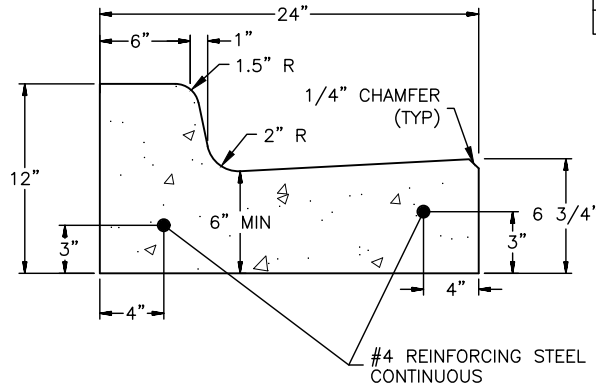
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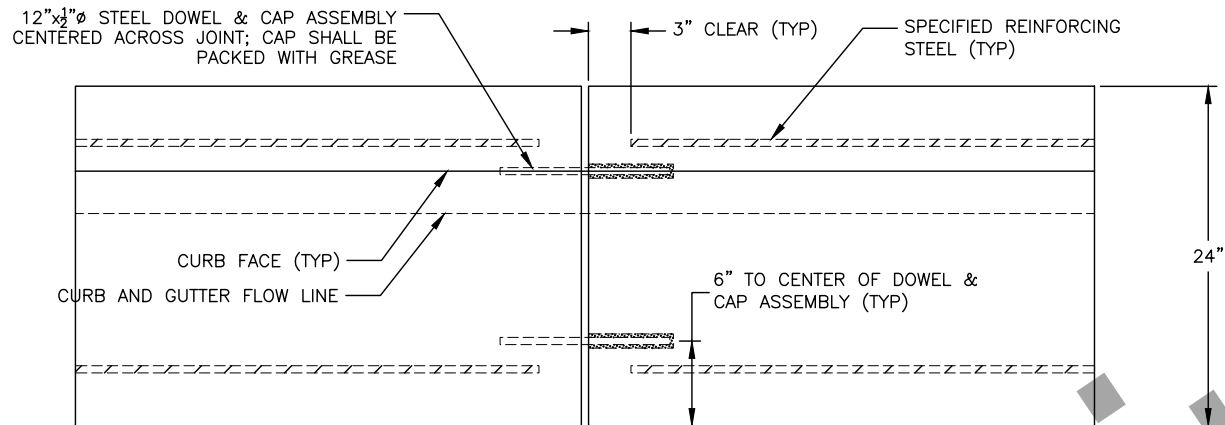


ADA CURB GUTTER DETAIL

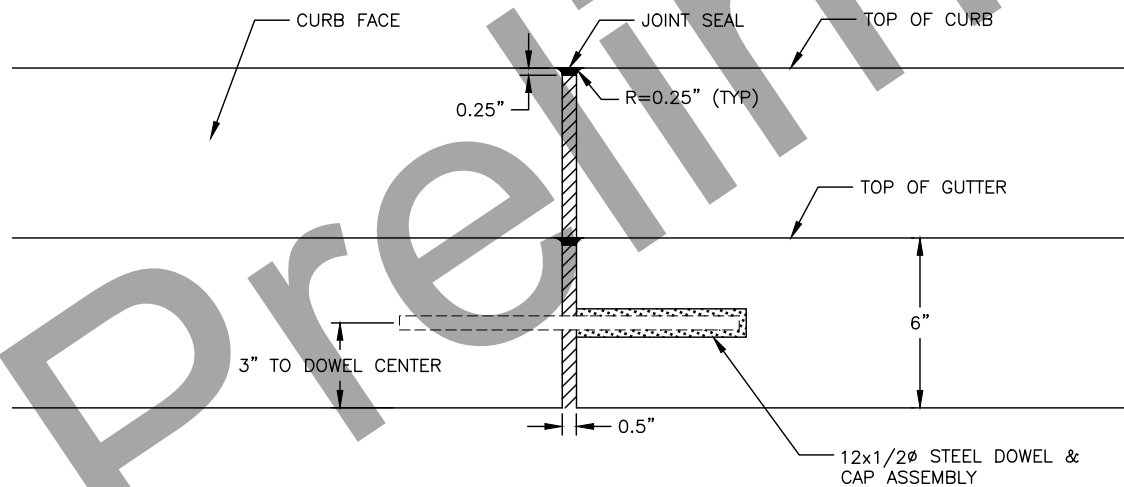
STANDARD CURB AND GUTTER
SPILL



STANDARD CURB AND GUTTER
CATCH



CURB & GUTTER EXPANSION JOINT DETAIL
PLAN VIEW



CURB & GUTTER EXPANSION JOINT DETAIL
ELEVATION VIEW

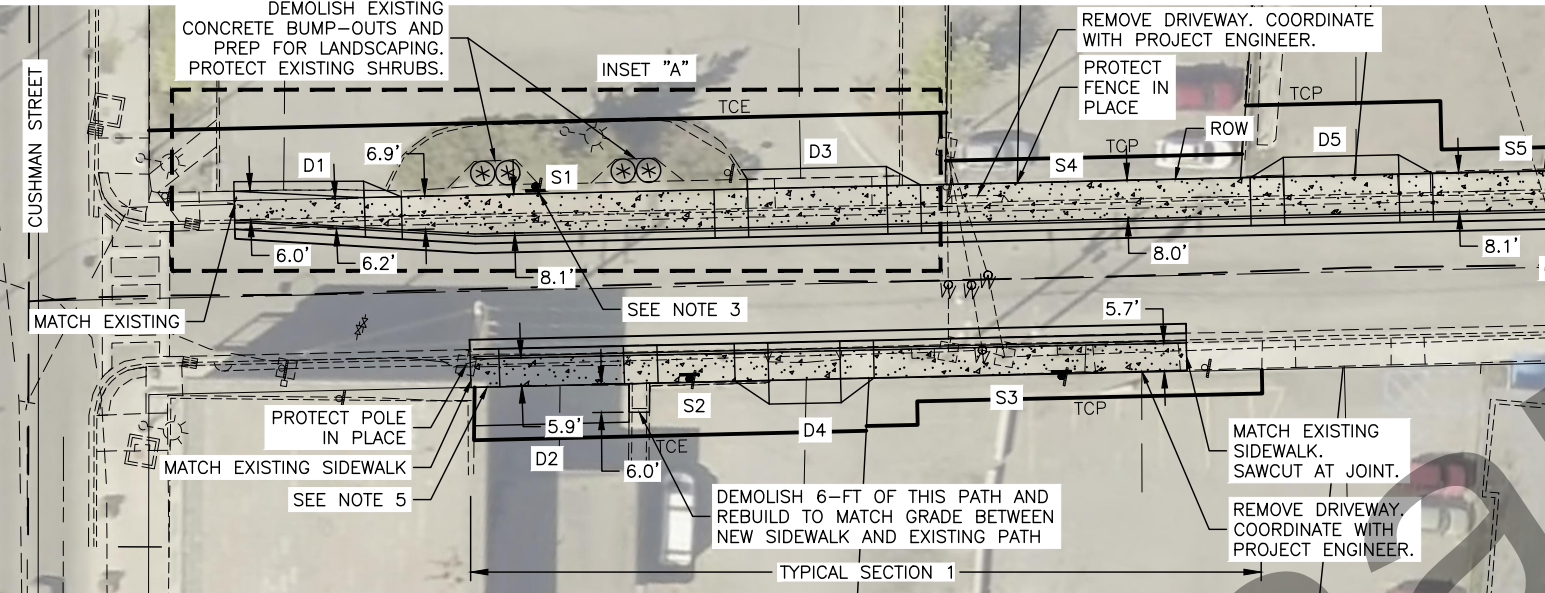
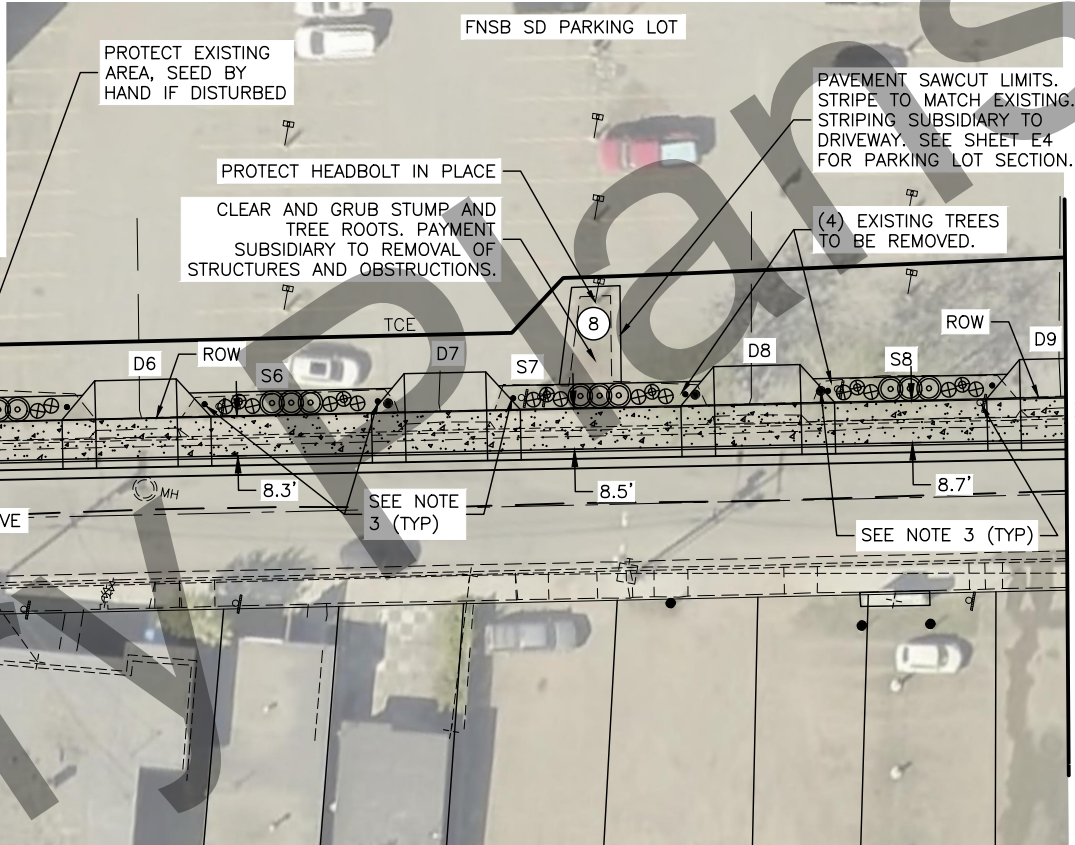
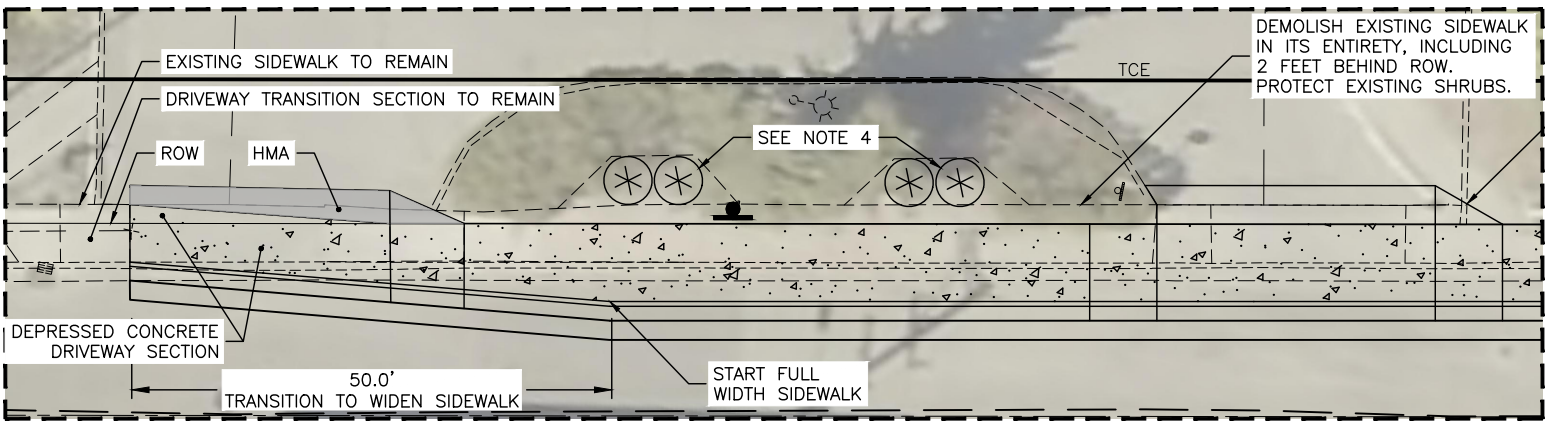
CONCRETE CURB AND GUTTER NOTES:

1. INSTALL CONTINUOUS FULL DEPTH 1/8" CONSTRUCTION JOINT AT ALL LOCATIONS WHERE SIDEWALK AND CURB (ANY TYPE) MEET. USE CONTINUOUS BOND BREAKER (I.E., 6 MIL PLASTIC OR APPROVED EQUAL) BETWEEN THE SIDEWALK AND THE CURB.
2. PROTECT CONCRETE FROM DAMAGE DURING CURE. REPAIR OR REPLACE CONCRETE DAMAGED DURING CURE AS APPROVED BY THE ENGINEER.
3. EXPANSION AND CONTRACTION JOINTS IN THE CURB & GUTTER SHALL LINE UP WITH EXPANSION AND CONTRACTION JOINTS IN AN ADJACENT SIDEWALK. MAXIMUM SPACING BETWEEN EXPANSION JOINTS IS 50 FT. THE ENGINEER MAY ADJUST THE LOCATION OF EXPANSION OR CONTRACTION JOINTS.
4. CONTRACTION JOINT SPACING FROM EXPANSION JOINTS OR OTHER CONTRACTION JOINTS SHALL BE THE SPECIFIED WIDTH OF THE ADJACENT CONCRETE SIDEWALK. IF NO SIDEWALK IS ADJACENT TO THE CURB AND GUTTER, USE THE SAME SPACING CONSISTENT WITH THE CURB AND GUTTER ADJACENT TO SIDEWALK ELSEWHERE ON THE PROJECT OR AS OTHERWISE APPROVED BY THE ENGINEER.
5. UNLESS OTHERWISE NOTED, EXPANSION AND CONTRACTION JOINTS SHALL BE PERPENDICULAR TO THE CONCRETE CURB FACE.
6. EXPANSION JOINTS SHALL BE INSTALLED AT THE TOP OF ALL TRANSITIONS TO PEDESTRIAN CURB RAMPS.
7. CURB AND GUTTER REINFORCING STEEL SHALL BE PLACED AND SPLICED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 503.
8. CURB AND GUTTER REINFORCING STEEL SHALL BE ASTM A615, GRADE 60; OR ASTM A706, GRADE 60.
9. APPLY JOINT SEALER EVENLY TO COMPLETELY SEAL ALL EXPANSION JOINTS.
10. APPLY STE-1 TACK COAT BETWEEN CONCRETE SURFACES AND ADJOINING ASPHALT.
11. CONTRACTOR SHALL ENSURE THAT THE REINFORCING BARS REMAIN PERPENDICULAR TO THE EXPANSION JOINT AFTER CONCRETE PLACEMENT.

CURB & GUTTER DETAILS



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LEGEND
S# = SIDEWALK SECTION REPAIR NO.
D# = DRIVEWAY NO.

DRIVEWAY SUMMARY TABLE, 6 INCH CONCRETE

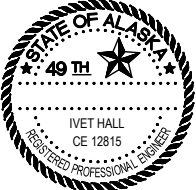
ID NO.	STREET	CORNER/SIDE OF STREET	DRIVEWAY DEPRESSED SECTION	CURB & GUTTER LENGTH, FT	SIDEWALK AREA, SY	DEPTH BEHIND DRIVEWAY FT	FINISH MATERIAL BEHIND DRIVEWAY	COMMENTS
			LENGTH, FT				2" HMA, SQ FT	
D1	6TH AVENUE	NORTH	27	35	216	3	108	TRANSITION THE SIDEWALK WIDTH, SEE INSET "A" FOR DETAIL
D2	6TH AVENUE	SOUTH	26	39	230	8	312	
D3	6TH AVENUE	NORTH	29	43	348	4	172	
D4	6TH AVENUE	SOUTH	15	29	165	5	145	
D5	6TH AVENUE	NORTH	24	38	299	4	144	
D6	6TH AVENUE	NORTH	17	31	257	8	248	
D7	6TH AVENUE	NORTH	17	31	264	8	248	
D8	6TH AVENUE	NORTH	18	32	272	8	256	
D9	6TH AVENUE	NORTH	19.5	33.5	285	8	268	

SIDEWALK SUMMARY TABLE, 4 INCH CONCRETE

ID NO.	STREET	CORNER/SIDE OF STREET	CURB & GUTTER LENGTH, FT	CURB & GUTTER TYPE	SIDEWALK LENGTH, FT	SIDEWALK WIDTH, FT	COMMENTS
S1	6TH AVENUE	NORTH	65.2	STANDARD	65.2	8.1	
S2	6TH AVENUE	SOUTH	16	STANDARD	16	5.9	SEE NOTE 6.
S3	6TH AVENUE	SOUTH	65.2	STANDARD	65.2	5.7	
S4	6TH AVENUE	NORTH	69	STANDARD	69	8.0	
S5	6TH AVENUE	NORTH	47.6	STANDARD	47.6	8.1	
S6	6TH AVENUE	NORTH	33.5	STANDARD	33.5	8.3	
S7	6TH AVENUE	NORTH	33.5	STANDARD	33.5	8.5	
S8	6TH AVENUE	NORTH	31.7	STANDARD	31.7	8.7	

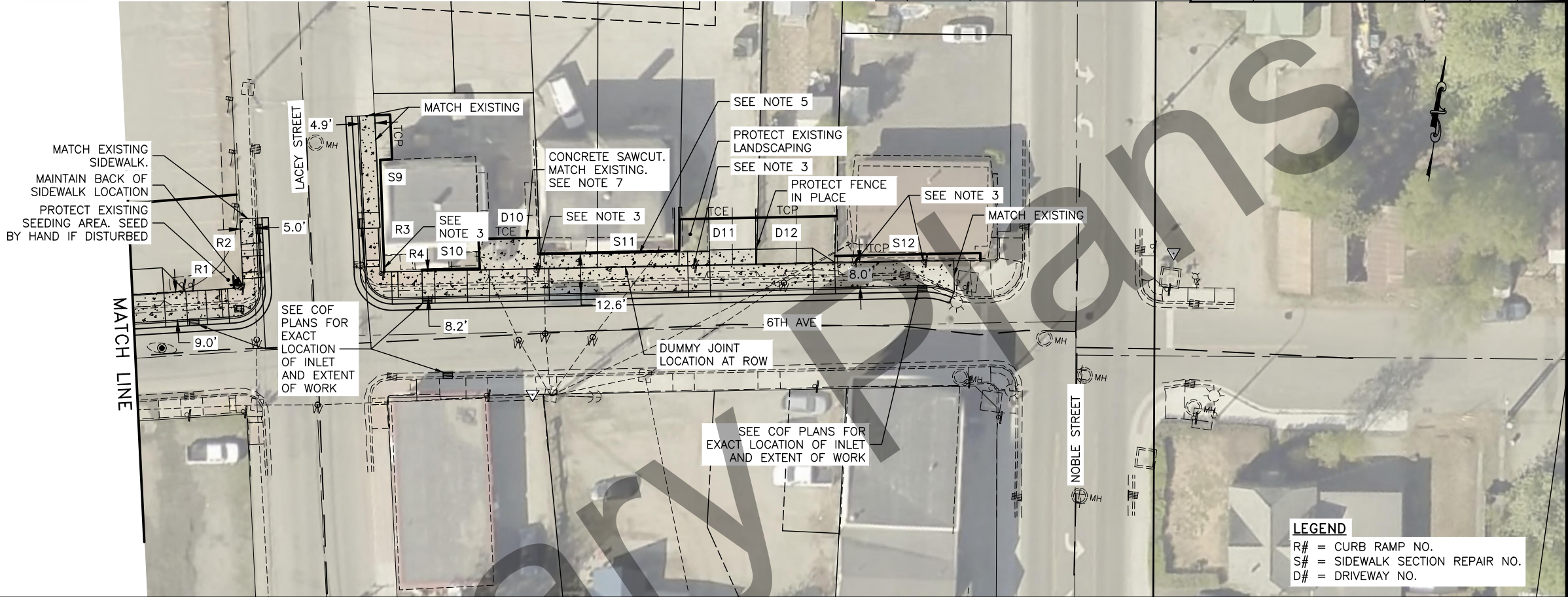
NOTES:

- LENGTHS, WIDTHS, AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS BY THE ENGINEER.
- THE PLAN IS SCHEMATIC IN NATURE. IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR WILL DETERMINE THE FINISH GRADING ELEVATIONS AND DIRECT WATER TO THE GUTTER FLOW LINE AND THE INLETS AT THE STREETS INTERSECTIONS.
- REMOVE AND REINSTALL SIGNS AS SHOWN ON H SHEETS OR AS DIRECTED BY THE PROJECT ENGINEER. REMOVE BOLLARDS AND INSTALL FLEXIBLE DELINEATORS POSTS (7 TOTAL) AT THE FNSB SD PARKING LOT AS SHOWN ON F SHEETS OR AS DIRECTED BY THE PROJECT ENGINEER.
- SEE B AND L SHEETS FOR DETAILS.
- BUILD 6-FT WIDE RAMP ON THE WEST SIDE OF DRIVEWAY D2. WARP PAVEMENT BEHIND SIDEWALK TO MATCH BACK OF SIDEWALK ELEVATION AS DIRECTED BY THE PROJECT ENGINEER. EXACT SAWCUT LOCATION AND START OF RAMP TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- SIDEWALK REPLACEMENT INCLUDES THE 6 FOOT SECTION OF ADJACENT PATH.
- USE 2" OF AGGREGATE BASE COURSE, GRADING D-1 (OR AS NEEDED) UNDER THE DRIVEWAY HMA.
- CONTRACTOR SHALL SUBMIT STRIPING PLAN TO MARK PARKING SPACES FOR APPROVAL 5 DAYS BEFORE STRIPING.



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SIDEWALK SUMMARY TABLE, 4 INCH CONCRETE

ID NO.	STREET	CORNER/SIDE OF STREET	CURB & GUTTER LENGTH, FT	CURB & GUTTER TYPE	SIDEWALK LENGTH, FT	SIDEWALK WIDTH, FT	COMMENTS
S9	LACEY STREET	EAST	31	STANDARD	31	4.9	
S10	6TH AVENUE	NORTH	10.4	STANDARD	10.4	8.2	
S11	6TH AVENUE	NORTH	44.4	STANDARD	44.4	12.6	
S12	6TH AVENUE	NORTH	36	STANDARD	36	8.0	ADJUST EXISTING CATCH BASIN

CURB RAMP SUMMARY TABLE, 6 INCH CONCRETE

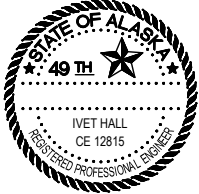
ID NO.	STREET	CROSS STREET(S)	CORNER/SIDE OF STREET	RAMP TYPE	CURB & GUTTER LENGTH, FT	SIDEWALK AREA, SY	COMMENTS
R1	6TH AVENUE	LACEY STREET	NW	DIRECTIONAL	25	194	
R2	LACEY STREET	6TH AVENUE	SW	DIRECTIONAL	32	130	
R3	LACEY STREET	6TH AVENUE	SE	DIRECTIONAL	28	105	
R4	6TH AVENUE	LACEY STREET	NE	DIRECTIONAL	21	156	

DRIVEWAY SUMMARY TABLE, 6 INCH CONCRETE

ID NO.	STREET	CORNER/SIDE OF STREET	DRIVEWAY DEPRESSED SECTION	CURB & GUTTER LENGTH, FT	SIDEWALK AREA, SY	DEPTH BEHIND DRIVEWAY FT	FINISH MATERIAL BEHIND DRIVEWAY		COMMENTS
			LENGTH, FT				6" CONCR, SQ FT	2" HMA, SQ FT	
D10	6TH AVENUE	NORTH	12	26	208	9.8	193	—	
D11	6TH AVENUE	NORTH	15	22	176	5	105	—	
D12	6TH AVENUE	NORTH	18	25	200	5	—	110	

NOTES:

- LENGTHS, WIDTHS, AND DIMENSIONS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS BY THE ENGINEER.
- THE PLAN IS SCHEMATIC IN NATURE. IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR WILL DETERMINE THE FINISH GRADING ELEVATIONS AND DIRECT WATER TO THE GUTTER FLOW LINE AND THE INLETS AT THE STREETS INTERSECTIONS.
- REMOVE AND REINSTALL SIGNS AS DIRECTED BY THE PROJECT ENGINEER.
- MAINTAIN BACK OF SIDEWALK LOCATION FOR PROPOSED WORK TO MATCH EXISTING BACK OF SIDEWALK. ADJUST GRADE AS NEEDED AND DIRECTED BY THE PROJECT ENGINEER.
- INSTALL SIDEWALK TO BUILDING. BACK OF SIDEWALK CONNECTS TO EXISTING BUILDING. PROTECT BUILDING WALL AND FENCE IN PLACE.
- USE 2" OF AGGREGATE BASE COURSE, GRADING D-1 (OR AS NEEDED) UNDER THE DRIVEWAY HMA.
- WARP CONCRETE BEHIND SIDEWALK TO MATCH BACK OF SIDEWALK ELEVATION AS DIRECTED BY THE PROJECT ENGINEER.



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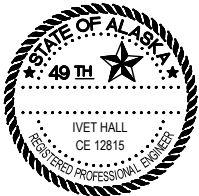
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	H1	32

SIGNING SUMMARY																	
LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE			BRACING/ FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST			REMARKS
		LT.	RT.			H	X	V	(INCHES)	BRACED				FRAMED	TYPE	SIZE (INCHES)	
1	4	X		R6-1R	ONE WAY	36	X	12	X		3.00		E/W	PST	2.5	1	
2	5		X	R6-1L	ONE WAY	36	X	12	X		3.00		E/W	PST	2.5	1	
3	6	X		?	BUSES ONLY DO NOT ENTER	24	X	18	X		3.00		E/W	PST	2.5	1	
4	7	X		?	NO PARKING ANYTIME	24	X	60	X		10.00		E/W	PST	2.5	1	
				R7-108R	2 HR PARKING 9:00 AM TO 6:00 PM				X		0.00						BOTH SIGNS ON ONE PANEL
5	8		X	R6-1L	ONE WAY	36	X	12	X		3.00		E/W	PST	2.5	1	
6	10	X		?	1ST FLOOR EVACUATION ASSEMBLY POINT	18	X	12	X		1.50		E/W	PST	2.5	1	SIGN FACING PARKING LOT
7	11	X			SCHOOL DISTRICT BUSINESS ONLY	12	X	18	X		1.50		E/W	PST	2.5	1	
					RESERVED PARKING VIOLATORS TOWED AT OWNER'S EXPENSE	18	X	24	X		3.00						
8	12	X			2ND FLOOR EVACUATION ASSEMBLY POINT	18	X	12	X		1.50		E/W	PST	2.5	1	SIGN FACING PARKING LOT
9	13	X			3RD FLOOR EVACUATION ASSEMBLY POINT	18	X	12	X		1.50		E/W	PST	2.5	1	SIGN FACING PARKING LOT
10	14	X			2 HR PARKING 9:00 AM TO 6:00 PM	24	X	60	X		10.00		E/W	PST	2.5	1	BOTH SIGNS ON ONE PANEL
					NO PARKING ANY TIME												
11	16	X			SCHOOL DISTRICT BUSINESS ONLY	12	X	18	X		1.50		E/W	PST	2.5	1	
					RESERVED PARKING VIOLATORS TOWED AT OWNER'S EXPENSE	18	X	24	X		3.00		E/W				
12	17	X			4TH FLOOR EVACUATION ASSEMBLY POINT	18	X	12	X		1.50		E/W	PST	2.5	1	SIGN FACING PARKING LOT
13	18	X		R1-1	STOP	30	X	30	X		6.25		N/S	PST	2.5	1	REPLACE PANEL
				R6-1R	ONE WAY	36	X	12	X		3.00		E/W				REMOVE AND REINSTALL
				R6-1L	ONE WAY	36	X	12	X		3.00		E/W				REMOVE AND REINSTALL
14	20	X		SPECIAL 1	6TH AVE	36	X	8	X		2.00		E/W	PST	2.5	1	DOUBLE SIDED SIGNS
				SPECIAL 1	LACEY ST	36	X	8	X		2.00		N/S				DOUBLE SIDED SIGNS
				R6-1L/R	ONE WAY	36	X	12	X		3.00		E/W				DOUBLE SIDED SIGNS
15	21	X		?	NO PARKING ANYTIME	24	X	60	X		10.00		E/W	PST	2.5	1	
				R7-108R	2 HR PARKING 9:00 AM TO 6:00 PM				X								BOTH SIGNS ON ONE PANEL
16	22	X			2 HR PARKING 9:00 AM TO 6:00 PM	24	X	60	X		10.00		E/W	PST	2.5	1	BOTH SIGNS ON ONE PANEL
					NO PARKING ANY TIME												
17	23	X		?	NO PARKING ANYTIME	24	X	60	X		10.00		E/W	PST	2.5	1	
				R7-108R	2 HR PARKING 9:00 AM TO 6:00 PM				X								BOTH SIGNS ON ONE PANEL
18	24	X			2 HR PARKING 9:00 AM TO 6:00 PM	24	X	60	X		10.00		E/W	PST	2.5	1	BOTH SIGNS ON ONE PANEL
					NO PARKING ANY TIME												

NOTES:

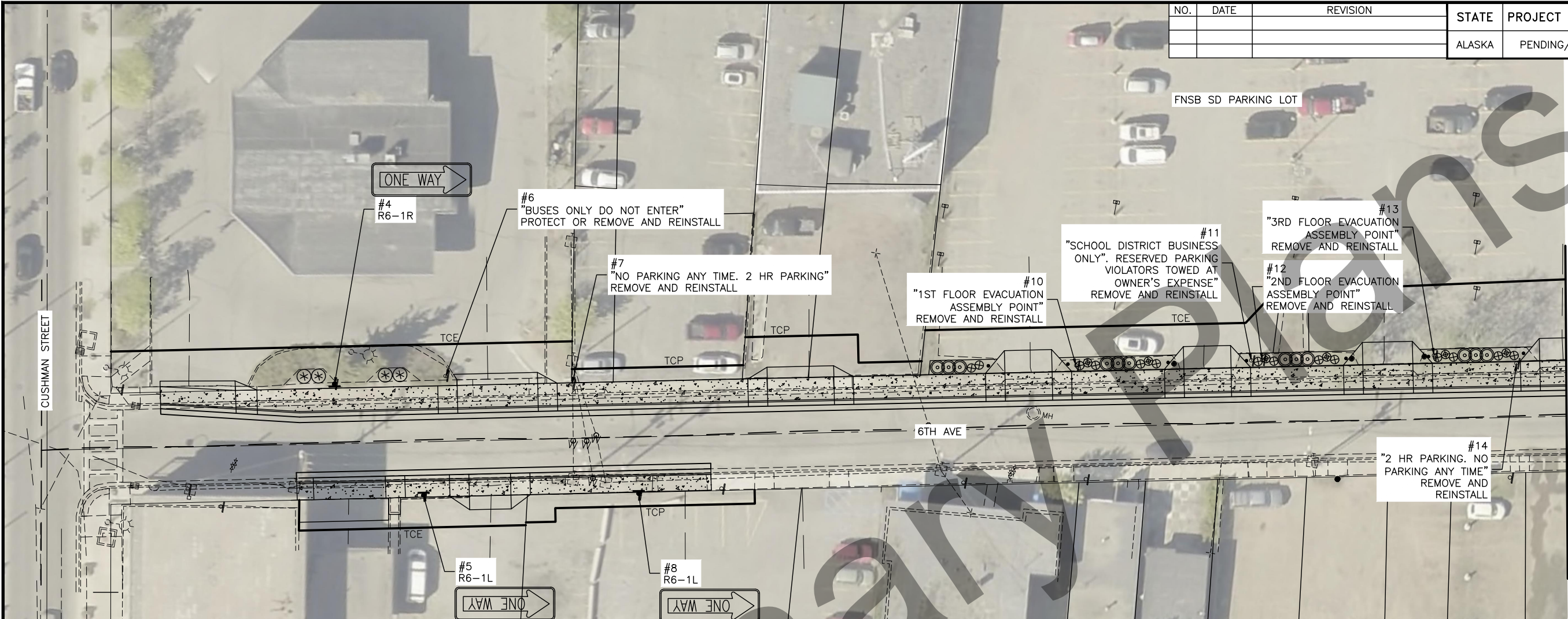
1. REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND SIGN FOUNDATIONS WITHIN THE PROJECT LIMITS, EXCEPT THOSE DESIGNATED FOR REINSTALLATION, SALVAGE OR OTHERWISE NOTED. ALL EXISTING SIGNS, POSTS, AND ASSOCIATED HARDWARE REMOVED WITHIN THE PROJECT LIMITS, EXCEPT THOSE DESIGNATED FOR REINSTALLATION, SALVAGE OR OTHERWISE NOTED SHALL BE RETURNED TO THE CITY OF FAIRBANKS PUBLIC WORKS DEPARTMENT LOCATED AT 2121 PEGER ROAD.
2. MOUNT SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE SIDEWALK WITH A MOUNTING HEIGHT OF 8 FEET.
3. MOUNTING HEIGHTS ARE PER STANDARD PLAN S-05.02 UNLESS OTHERWISE NOTED.
4. DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
5. INSTALL PST SIGN POSTS WITH SLEEVE TYPE CONCRETE FOUNDATION PER STANDARD PLAN S-30.05.
6. 1/4" X 1 1/2" ALUMINUM ALLOY 6061-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES AS SHOWN ON STANDARD PLAN S-01.02.
7. ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PST POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
8. ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" UNDER SECTION 730-2.07 OF THE SSHC.
9. STOP (R1-1) SIGN LOCATIONS, ESPECIALLY THOSE AT LARGE RADIUS INTERSECTIONS, MAY NEED ADJUSTMENT IN THE FIELD. THE ENGINEER WILL APPROVE FINAL LOCATIONS.
10. INSTALL SPECIAL 1 SIGNS ABOVE THEIR RESPECTIVE STOP SIGNS. WHEN TWO SPECIAL 1 SERIES SIGNS ARE TO BE LOCATED ON THE SAME POST, INSTALL THE CROSS-STREET PANEL IN THE LOWER POSITION.
11. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
12. ALL SIGNS NOTED FOR REMOVAL AND REINSTALLATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE IF THEY ARE DAMAGED DURING THE RELOCATION EFFORT.
13. LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS, AND TELEPHONE AND ELECTRICAL CABLES, PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THE PLANS.
14. CLEARING, AS DIRECTED BY THE ENGINEER, MAY BE REQUIRED TO ENSURE ADEQUATE VISIBILITY OF SIGNS. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
15. ADHESIVE TAPE IS NOT PERMITTED. THIS MODIFIES STANDARD PLAN S-00.12

SIGNING SUMMARY



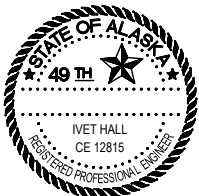
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	H2	32



NOTES:

1.

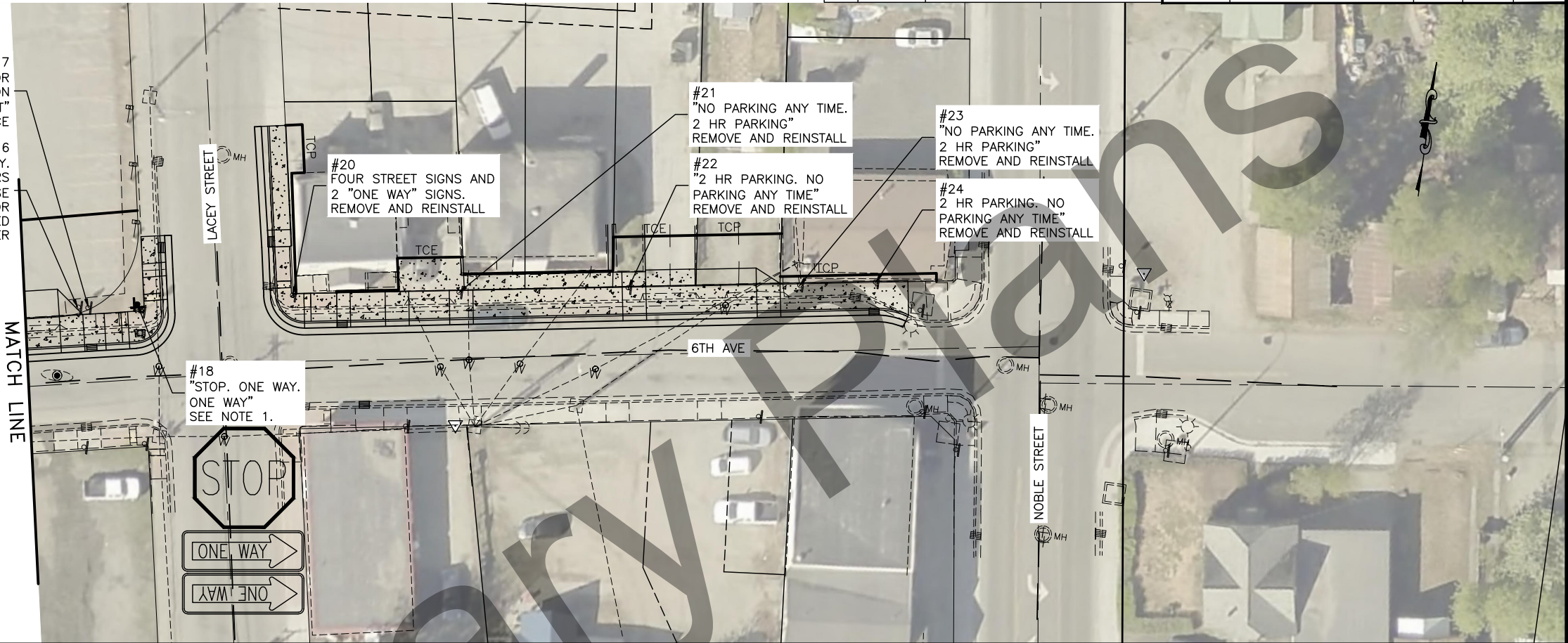


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			ALASKA	PENDING/NFHWY00551	2022	H3	32

#17
"4TH FLOOR
EVACUATION
ASSEMBLY POINT"
PROTECT IN PLACE

#16
"SCHOOL DISTRICT BUSINESS ONLY.
RESERVED PARKING VIOLATORS
TOWED AT OWNER'S EXPENSE
REMOVE AND REINSTALL OR
PROTECT IN PLACE, AS DIRECTED
BY THE PROJECT ENGINEER



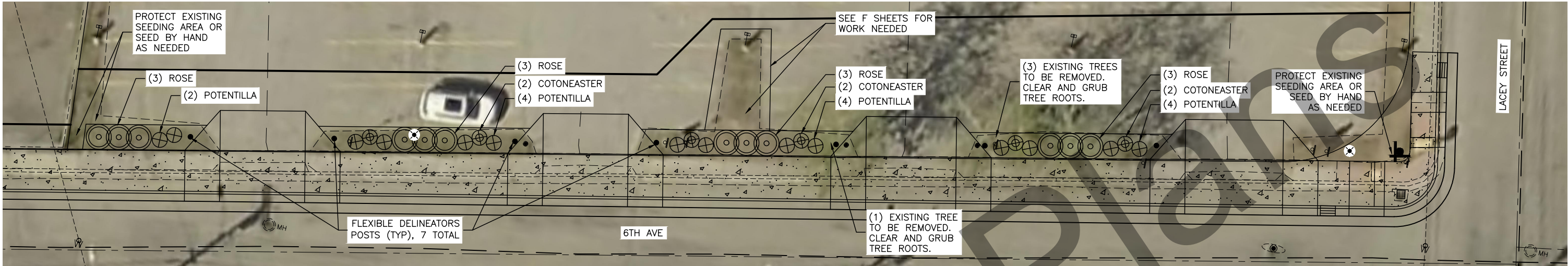
- NOTES:**
1. REMOVE AND REINSTALL SIGN POST 2- FEET OFFSET FROM THE BACK OF SIDEWALK. REPLACE "STOP" PANEL. REMOVE AND REINSTALL "ONE WAY" PANELS.

SIGNING (2 OF 2)

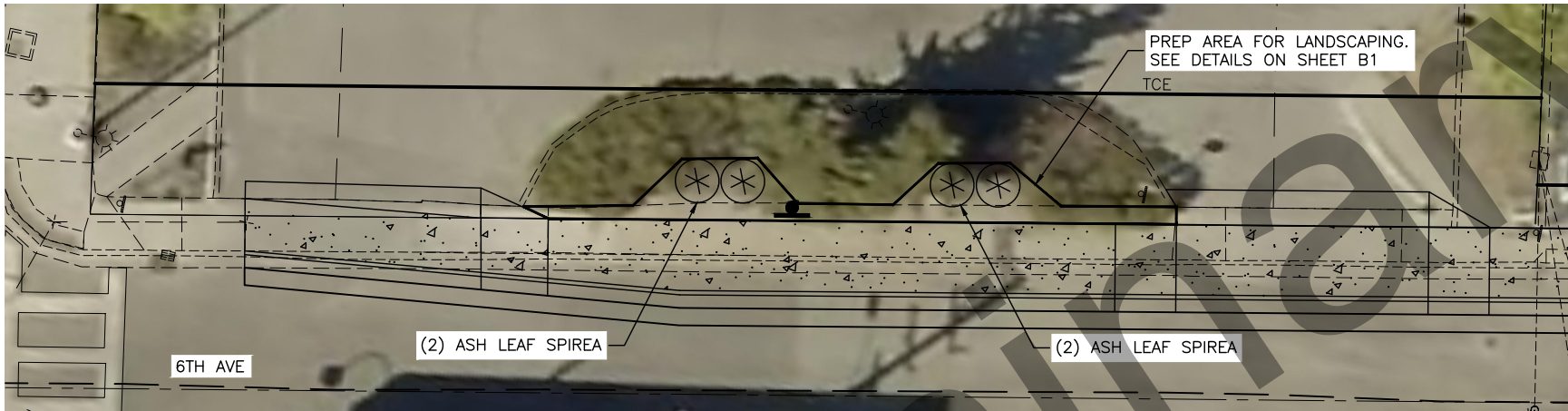


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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	L1	32



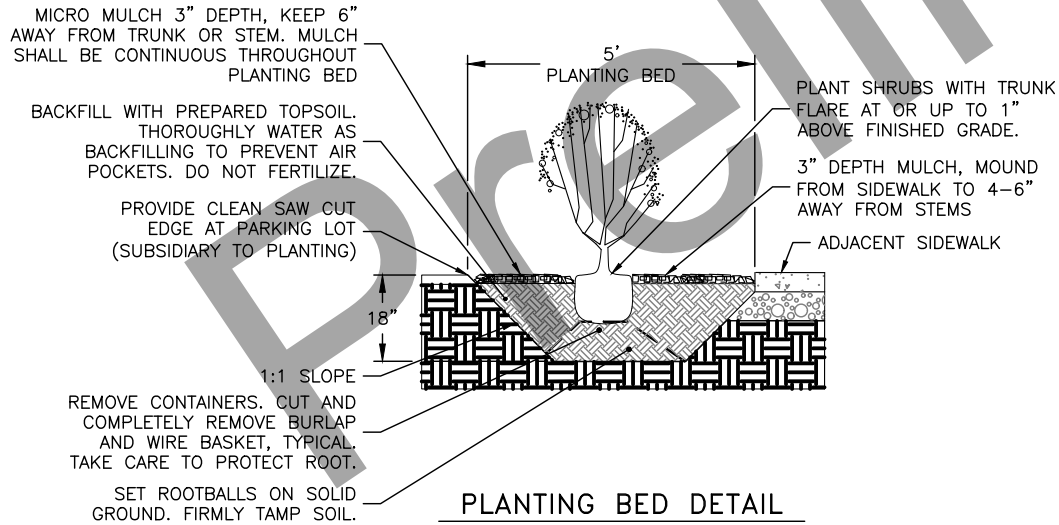
PLANTING PLAN AT THE SCHOOL DISTRICT



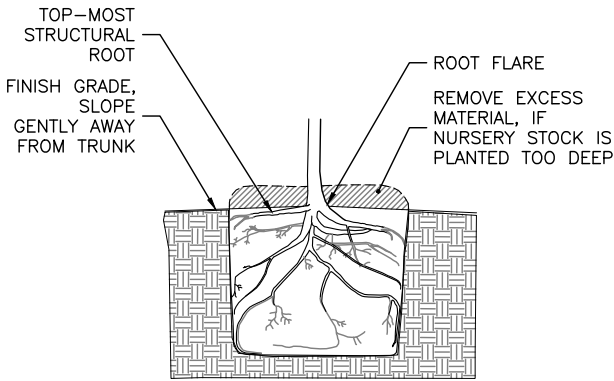
PLANTING PLAN AT MACS TRANSIT

- NOTES:
- ALL PLANTS SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI) Z60.1-2014 (WWW.ANLA.ORG).
 - CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO EXCAVATION.
 - TYPICAL EXCAVATION FOR THE SHRUB BEDS IS 18".
 - PREPARE PLANTING BED AS SHOWN ON PLANS:
 - EXCAVATE AND REMOVE EXISTING MATERIAL TO SUBGRADE
 - BACKFILL WITH TOPSOIL
 - PLANT SHRUBS AFTER ENGINEER HAS APPROVED THEIR STAKED LOCATIONS
 - APPLY MICROMULCH
 - MULCH CONTINUOUSLY THROUGHOUT ALL PLANTING BEDS WITH 3" MICRO MULCH (APPROXIMATELY 900 S.F.). KEEP MULCH 6" AWAY FROM STEMS. TRANSITION MULCH TO ADJACENT SURFACES. AT SHRUBS INTERFACE EXTEND MULCH 12" BEYOND SHRUBS (EDGE OF FOLIAGE) OR 18" FROM PLANT CENTER WHICHEVER IS LARGEST. TOP OF MICRO MULCH SHALL BE ONE INCH BELOW ADJACENT PAVEMENT AND SIDEWALK.

PLANTING SCHEDULE					
QTY	LATIN NAME	COMMON NAME	SIZE	SPACING (MIN.)	NOTES
12	ROSA RUGOSA	ROSE	36" TALL	4' O.C.	NURSERY GROWN
6	COTONEASTER ACUTIFOLIUS	COTONEASTER	36" TALL	3' O.C.	NURSERY GROWN
14	DASIPHORA FRUTICOSA	POTENTILLA	24" TALL	3' O.C.	NURSERY GROWN
4	SORBARIA SORBIFOLIA	ASH LEAF SPIREA	24" TALL	5' O.C.	

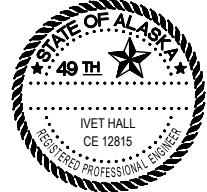


PLANTING BED DETAIL



PLANTING DEPTH DETAIL

LANDSCAPING PLAN & DETAILS



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			ALASKA	PENDING/NFHWY00551	2022	Q1	32

GENERAL SITE INFORMATION

1. SITE FUNCTION: PEDESTRIAN ACCESSIBILITY.
2. SEE SHEET A1 FOR GENERAL PROJECT AREA MAP.
PROJECT SITES LOCATED IN USGS QUADS D-1, D-2.

PROJECT INFORMATION TABLE	
PROJECT AREA (ACRE)	0.61
DISTURBED ACREAGE	0.61

ENVIRONMENTAL INFORMATION

1. RECEIVING WATER BODIES: CHENA RIVER.
2. IMPAIRED WATER BODIES: CHENA RIVER.
3. STORM SEWER / DRAINAGE SYSTEMS: FAIRBANKS MS4 DRAIN TO OUTFALLS AT CHENA RIVER.
4. TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: NONE.
5. THREATENED AND ENDANGERED SPECIES: NONE.
6. 106 RESOURCES: THE EASTSIDE HISTORIC DISTRICT (FAI-01917 - DETERMINED ELIGIBLE FOR THE NRHP 8/13/2010 CRITERIA A&C) IS ADJACENT TO BUT NOT WITHIN THE PROJECT APE. NO OTHER 106 RESOURCES NEARBY.
7. FISH & WILDLIFE ESSENTIAL HABITAT: NONE.
8. WETLANDS: NONE WITHIN PROJECT FOOTPRINT.
9. PERMITS: NONE

ESCP NOTES:

GENERAL:

1. THIS PROJECT IS UNDER ONE ACRE AND THERE WILL NOT BE REQUIRED TO DEVELOP A SWPPP OR FILE AN NOI WITH ADEC.
2. INITIATE EROSION AND SEDIMENT CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
3. STOCKPILE AND STAGING LOCATIONS SHALL BE RECLAIMED TO THEIR ORIGINAL CONDITION AS APPROVED BY THE ENGINEER.
4. TEMPORARY BMP'S, IF REQUIRED, ARE SUBSIDIARY TO 641# POLLUTION CONTROL ITEM.

CULVERTS:

5. PROVIDE TEMPORARY INLET AND OUTLET PROTECTION FOR PROPOSED CULVERTS IN THE AREA OF DISTURBANCE PRIOR TO MAKING OPERATIONAL OR BEGINNING EARTH DISTURBING ACTIVITIES.
6. PERMANENT CULVERT INLET AND OUTLET PROTECTION IS ESTABLISHED VEGETATION.

DITCH PROTECTION AND CONCENTRATED FLOWS:

7. WHEN POSSIBLE, AVOID CONDITIONS WHICH PROMOTE CONCENTRATED FLOWS. OTHERWISE, INSTALL VELOCITY CONTROL BMPS (I.E. WATTLE CHECK DAMS OR ROCK CHECK DAMS).

PERIMETER CONTROL:

8. VEGETATIVE BUFFER IS THE PREFERRED PERIMETER PROTECTION FOR THIS PROJECT. THERE ARE NO WETLANDS IN THE PROJECT AREA.

HAULING:

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

STOCKPILE PROTECTION:

10. ALL ERODIBLE STOCKPILES MUST BE PROTECTED BY EROSION AND SEDIMENT CONTROL DEVICES.
11. EROSION AND SEDIMENT CONTROL BMPS MAY HAVE TO BE REMOVED AND RE-INSTALLED EACH SHIFT.
12. COVER MUST BE USED ON STOCKPILES IN ACCORDANCE WITH SUBSECTION 641-3.01.5 TO PROVIDE ADDITIONAL EROSION PROTECTION.

TIMING OF BMP INSTALLATION:

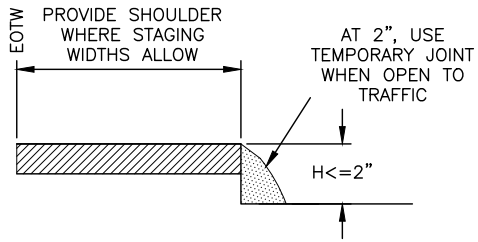
13. INSTALL EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO THE START OF CONSTRUCTION, AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE.
14. INSTALL TEMPORARY PERIMETER CONTROL BMP'S BEFORE ANY UP-GRADIENT SOIL DISTURBANCE OCCURS.

WINTER SHUTDOWN:

15. IF FINAL STABILIZATION IS NOT ACHIEVED BEFORE WINTER SHUTDOWN, EXPOSED GROUND, INCLUDING BUT NOT LIMITED TO EMBANKMENT SLOPES AND STOCKPILES, SHALL BE TEMPORARILY STABILIZED FOR SPRING BREAK-UP AND UNTIL PERMANENT STABILIZATION IS ACHIEVED THE NEXT SEASON. ALL STABILIZATION AND OTHER EROSION CONTROL MEASURES NECESSARY FOR WINTER SHUTDOWN ARE SUBSIDIARY TO OTHER ITEMS.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2021	T1	T1

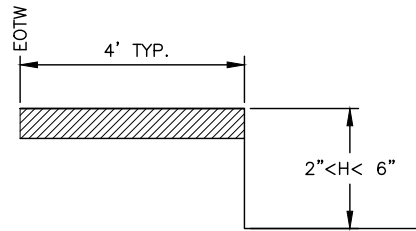
VERTICAL DROP-OFFS



CASE A

DROP-OFFS ≤ 2 INCHES
(PAVED SURFACES ONLY)

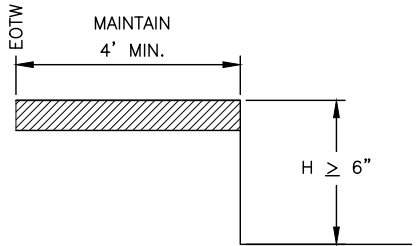
1. USE "UNEVEN LANES" (W8-11) SIGNS FOR ALL DROP-OFFS IN BETWEEN TRAFFIC LANES
2. LEAVE NO DROP-OFFS $> 1.5"$ IN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK



CASE B

$2" < \text{DROP-OFFS} < 6"$
(ALL ROADWAY SURFACES)

1. PLACE CONES OR CANDLES FOR DROP-OFFS ≥ 4 FEET AND ≤ 30 FEET FROM EOTW.
2. USE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS < 4 FEET FROM THE EOTW.



CASE C

DROP-OFFS $\geq 6"$
(ALL ROADWAY SURFACES
AND ROADSIDE SLOPES)

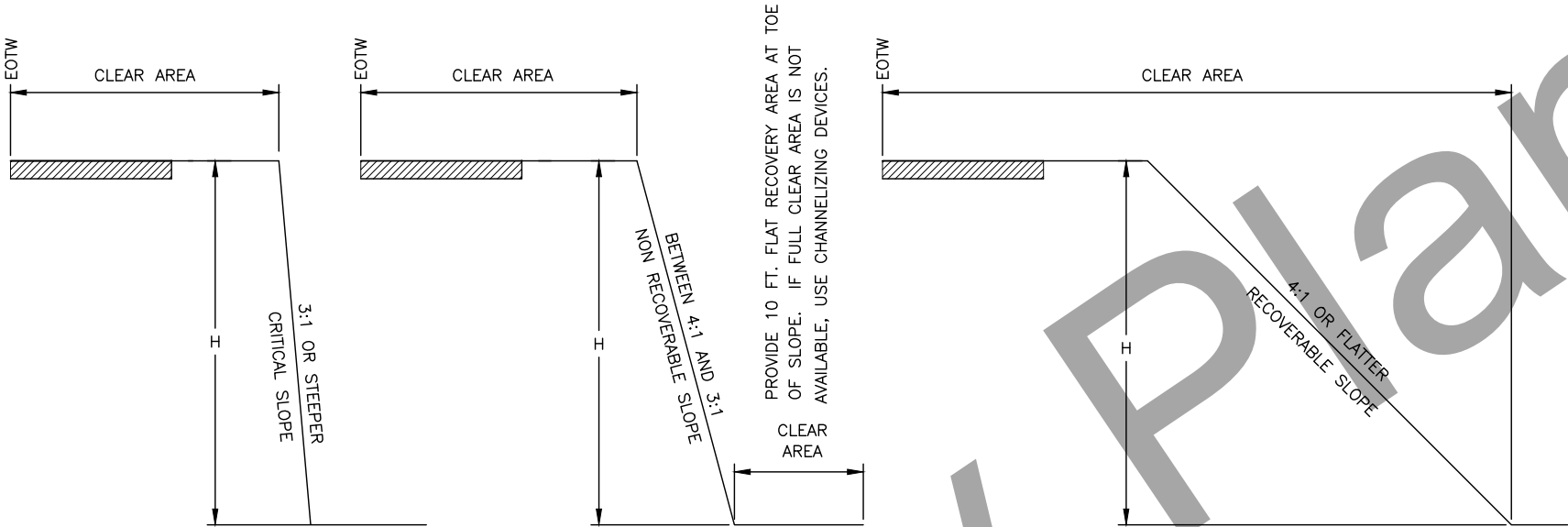
1. PLACE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS $\leq 24"$ WITHIN THE CLEAR AREA.
2. PROVIDE PORTABLE CONCRETE BARRIERS FOR DROP-OFFS $> 24"$ WITHIN 15 FEET OF THE EOTW. USE DRUMS OR TYPE II BARRICADES IF BEYOND 15 FEET.

FILL SLOPES

STEEPER THAN OR EQUAL TO 3:1

BETWEEN 4:1 AND 3:1

FLATTER THAN OR EQUAL TO 4:1



CLEAR AREA REQUIREMENTS			
	LOW SPEED $< = 35$ MPH	INTERMEDIATE SPEED 40 MPH TO 45 MPH	HIGH SPEED $\geq = 50$ MPH
RURAL	15'	24'	30'
URBAN	10' DITCH SECTIONS, OR 2' BEHIND CURB	15' DITCH CONDITIONS, OR 2' BEHIND CURB	15' DITCH CONDITIONS, OR 2' BEHIND CURB

TRAFFIC CONTROL NOTES:

1. USE THE EXISTING CROSS-SECTION (PRIOR TO CONSTRUCTION) AS A BASIS FOR DETERMINING WHEN CHANNELIZING DEVICES ARE NEEDED.
2. INSTALL CHANNELIZING DEVICES WHEN THE HORIZONTAL OR VERTICAL CURVATURE IS MADE MORE SEVERE.
3. INSTALL FLEXIBLE DELINEATORS WHEN ALL VEGETATION OVER 4 FEET HIGH IS CLEARED FROM FILL SLOPES THAT ARE 3:1 OR STEEPER IN THE CLEAR AREA.
4. USE PORTABLE CONCRETE BARRIER FOR WARRANTING CONDITIONS WHICH LAST LONGER THAN 3 DAYS. FOR CONDITIONS LASTING LESS THAN 3 DAYS, OTHER CHANNELIZING DEVICES MAY BE INSTALLED.
5. TERMINATE RUNS OF PORTABLE CONCRETE BARRIER USING THE FOLLOWING METHODS:

- A) CONNECT TO A PORTABLE CRASH CUSHION, OR
- B) PROVIDE A CONCRETE BARRIER WITH THRIE BEAM TRANSITION TO W-BEAM GUARDRAIL, TREATED WITH A PARALLEL TERMINAL (SEE SECTION 710).
- C) FLARE THE ENDS OF THE PORTABLE CONCRETE BARRIER AWAY FROM THE ROADWAY AT A RATE OF 7:1 ON A COMPACTED SLOPE OF 6:1 OR FLATTER, OUTSIDE OF THE CLEAR AREA. INSTALL A SLOPING PORTABLE CONCRETE BARRIER END TREATMENT, OR
- D) BURY IN THE BACKSLOPE.

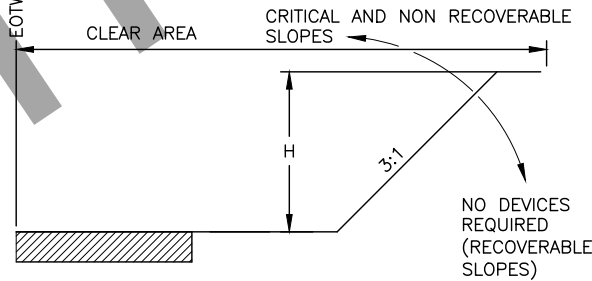
6. TERMINATE THE RUNS OF TEMPORARY W-BEAM GUARDRAIL USING THE FOLLOWING METHODS:

- A) PROVIDE A PARALLEL TERMINAL (SEE SECTION 710)
- B) FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 6:1 ON A COMPACTED SLOPE OF 6:1 OR FLATTER OUTSIDE OF THE CLEAR AREA, TERMINATE WITH A STANDARD W-BEAM END SECTION, OR
- C) BURY IN THE BACKSLOPE.

EQUIPMENT NOTES:

1. WHEN THERE IS ACTIVE, NONMOBILE CONSTRUCTION EQUIPMENT WITHIN THE CLEAR AREA, DELINEATE THE ROADSIDE WITH TRAFFIC CONES.
2. SEPARATE PROCEDURES ARE REQUIRED FOR MOBILE WORK ZONE OPERATIONS AND SHORT DURATION WORK OF LESS THAN 12 HOURS.

CUT SLOPES



EOTW = EDGE OF TRAVELED WAY

CHANNELIZING DEVICE REQUIREMENTS FOR SLOPES
3:1 OR STEEPER WITHIN THE CLEAR AREA

	H $\leq 15'$	H $> 15'$
< 2000 VPD LOW VOLUME	CANDLES OR CONES	TYPE II BARRICADES OR DRUMS
> 2000 VPD	TYPE II BARRICADE OR DRUMS	PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL

WINTER SHUTDOWN NOTES:

1. WHEN REQUIRED, USE CHANNELIZING DEVICES WHICH CAN BE MAINTAINED OVER WINTER.
2. NO CHANNELIZING DEVICES ARE REQUIRED IF:
 - A) CONSTRUCTION SLOPES ARE RECOVERABLE, AND
 - B) SLOPES ARE SMOOTH AND COMPACTED, AND
 - C) REQUIRED CLEAR AREA IS PROVIDED

TRAFFIC CONTROL PLANS



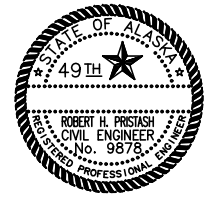
PLANS DEVELOPED BY: CITY OF FAIRBANKS, ENGINEERING DEPARTMENT, 800 CUSHMAN STREET, FAIRBANKS, AK 99701 (907)459-6740
P:\31337 6th Ave ADA Improve\Acad Civil3D Drawings\3-Storm-6TH PROFILE Mon, Feb/28/22 03:31pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	U1	U5

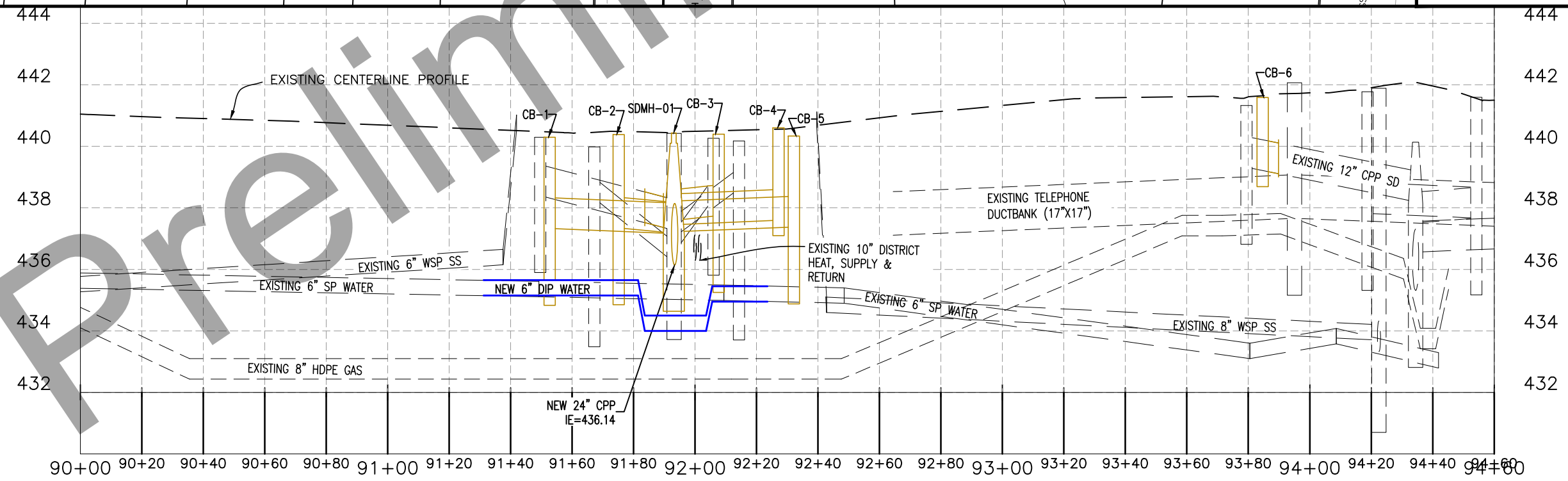
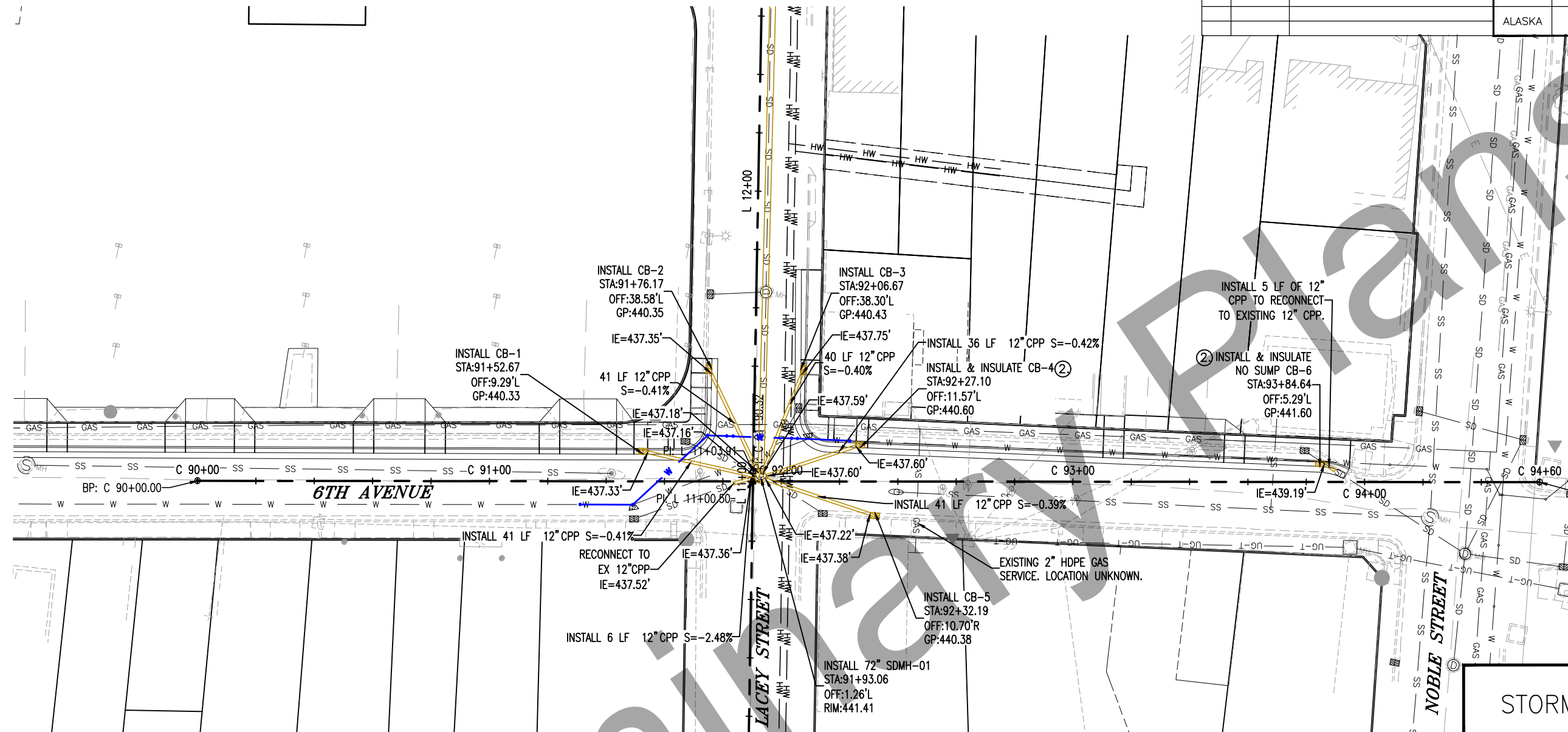
1"=20' HORIZ.,
1"=2' VERT.
(FULL SIZE)

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

- NOTES:
- CURVE DATA, STATION/OFFSET, ELEVATIONS ARE AT GRADE POINT UNLESS NOTED OTHERWISE.
 - INSULATE CB-4 AND CB-6 WITH 6 INCHES OF URETHANE FOAM PER COF STANDARD DETAILS SD2.
 - PAVEMENT STRUCTURE FOR ROADWAYS WITH EXISTING ASPHALT SHALL BE 3 INCHES OF HMA, TYPE II, CLASS B, PG 52-40, 4 INCHES OF AGGREGATE BASE COURSE GRADING D-1, AND 14 INCHES OF SUBBASE, GRADING F. TO BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS.



STORM DRAIN



NOTE: LATERAL SD PIPE INFORMATION IS LOCATED WITHIN PLAN VIEW ONLY.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	U3	U5

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

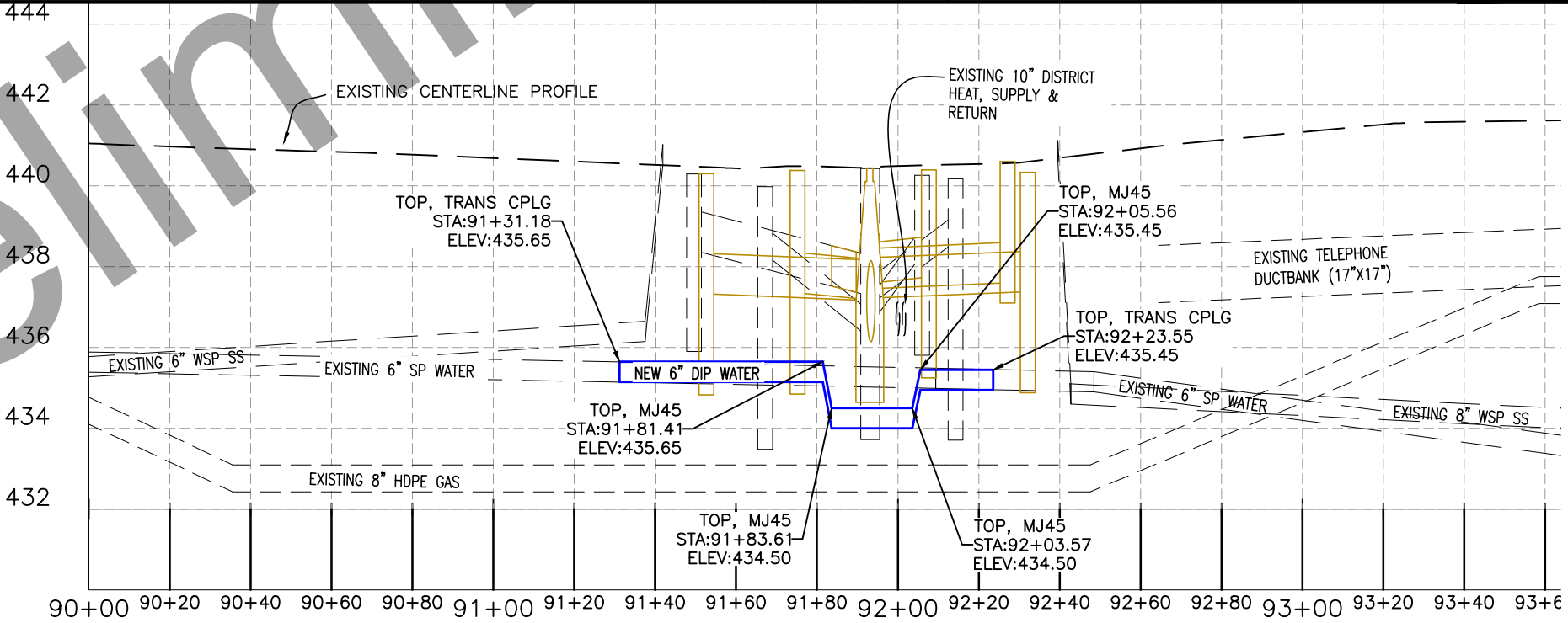
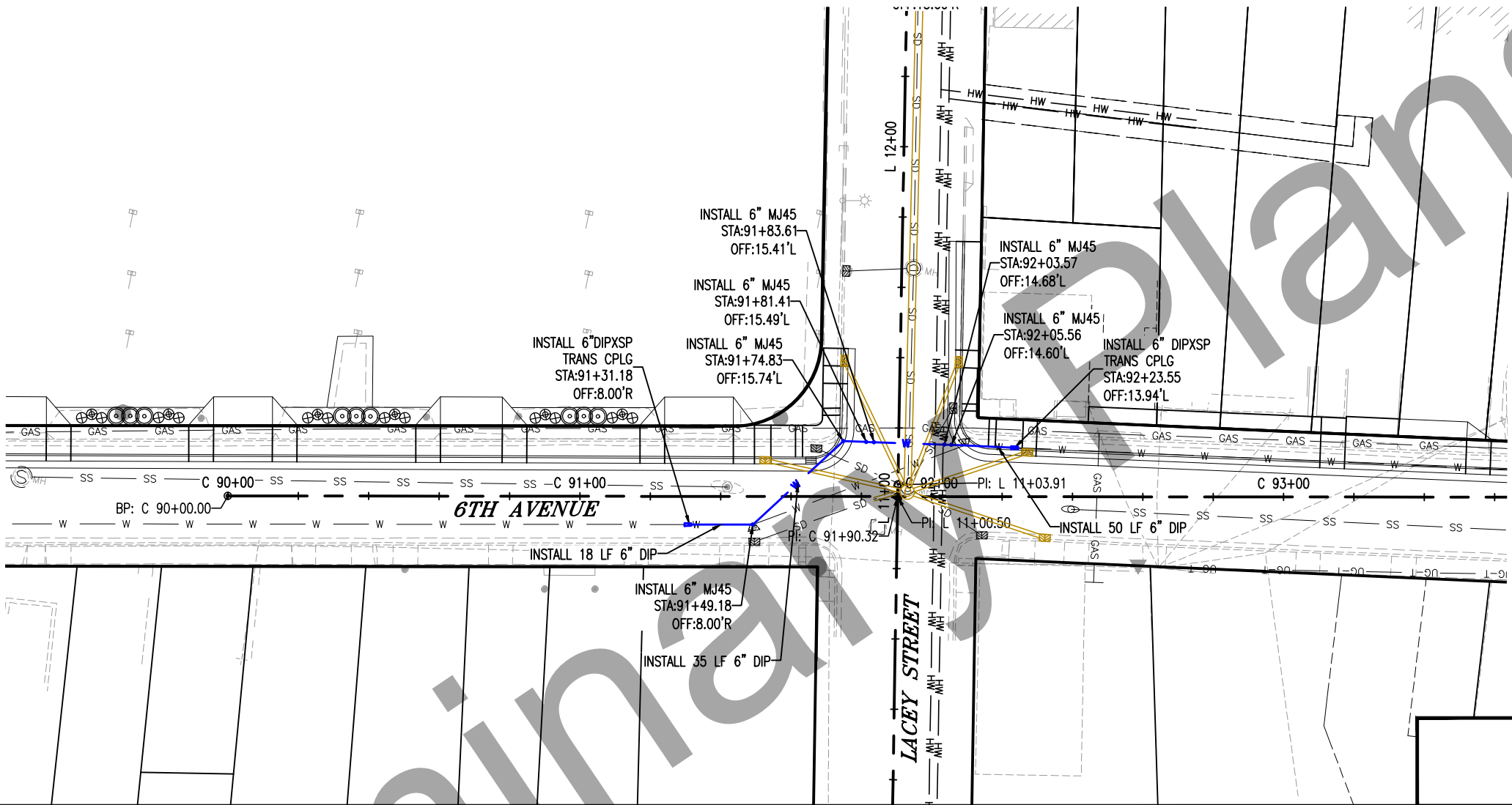
1"=40' HORIZ.,
1"=4' VERT.
(HALF SIZE)

NOTES:

- FULLY INSULATE THE NEW 6" WATER WITH AN ADDITIONAL 2" OF URETHANE FOAM FOR 14 LF, CENTERED ON STORM DRAIN OR SANITARY SEWER PIPE CROSSINGS.
- PAVEMENT STRUCTURE FOR ROADWAYS WITH EXISTING ASPHALT SHALL BE 3 INCHES OF HMA, TYPE II, CLASS B, PG 52-40, 4 INCHES OF AGGREGATE BASE COURSE GRADING D-1, AND 14 INCHES OF SUBBASE, GRADING F. TO BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS.

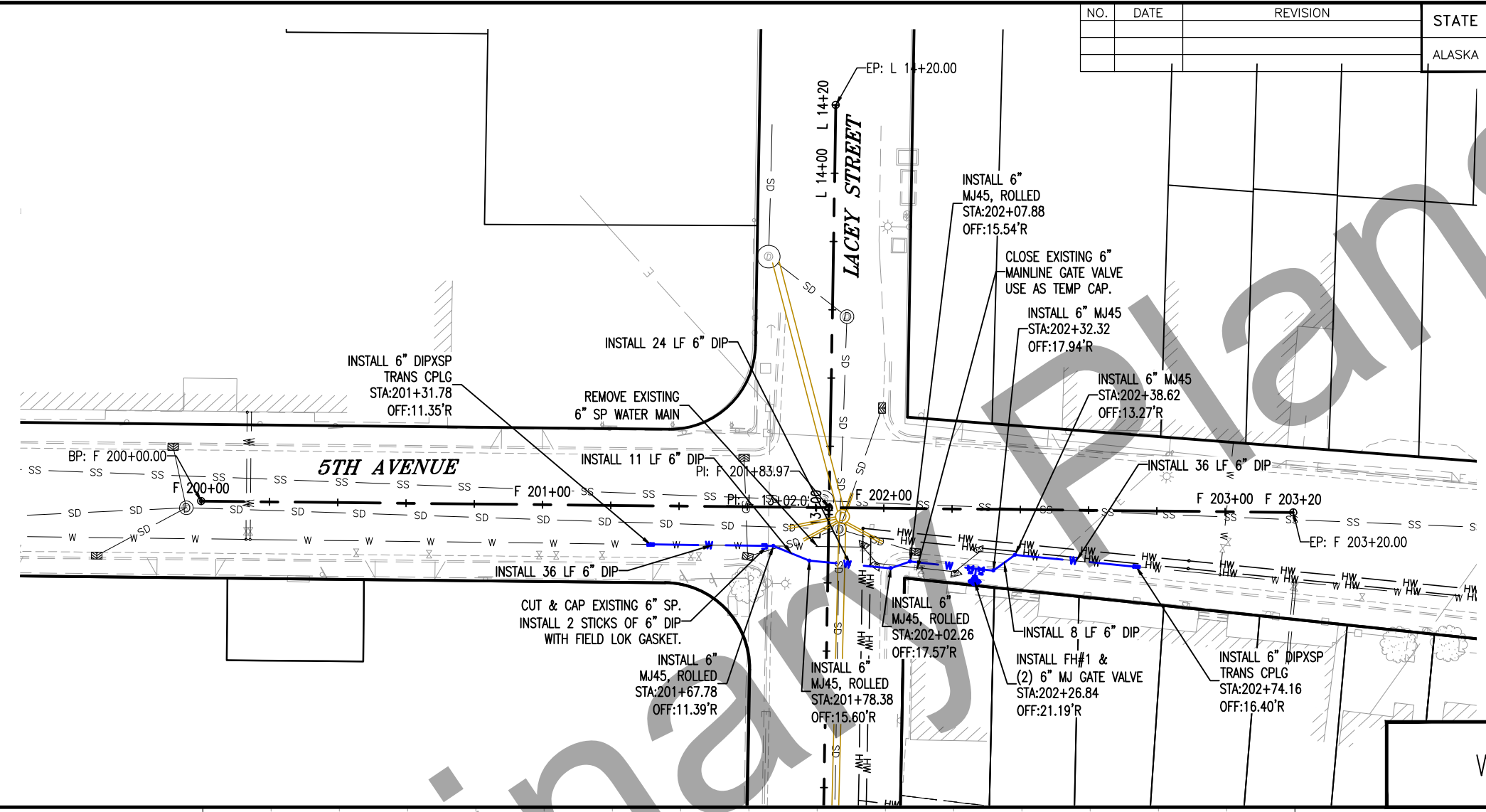


WATER

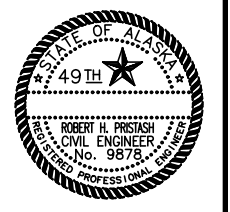


PLANS DEVELOPED BY: CITY OF FAIRBANKS, ENGINEERING DEPARTMENT, 800 CUSHMAN STREET, FAIRBANKS, AK 99701 (907)459-6740
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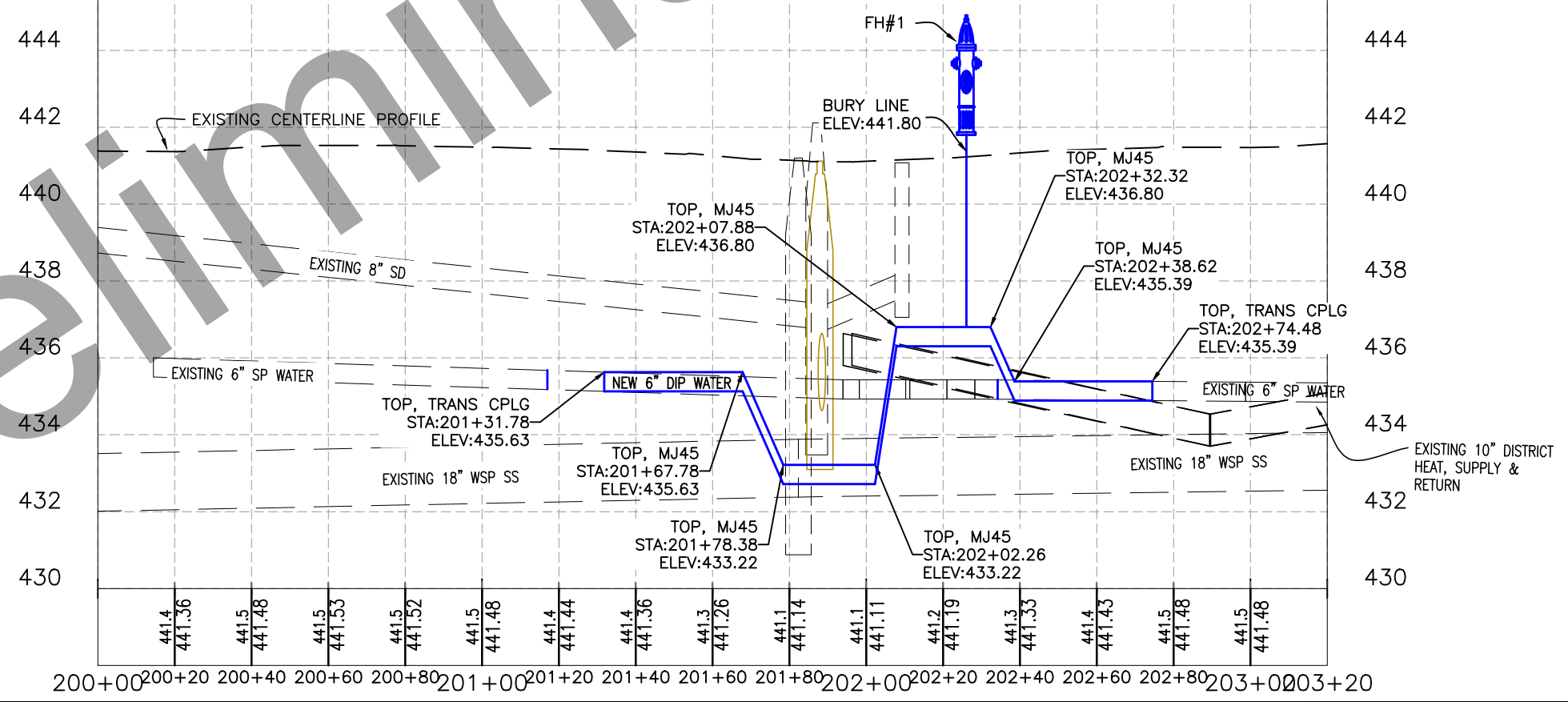
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00551	2022	U4	U5



- 1"=20' HORIZ.,
1"=2' VERT.
(FULL SIZE)
- 1"=40' HORIZ.,
1"=4' VERT.
(HALF SIZE)
- NOTES:
- FULLY INSULATE THE NEW 6" WATER WITH AN ADDITIONAL 2" OF URETHANE FOAM FOR 14 LF, CENTERED ON STORM DRAIN OR SANITARY SEWER PIPE CROSSING
 - PAVEMENT STRUCTURE FOR ROADWAYS WITH EXISTING ASPHALT SHALL BE 3 INCHES OF HMA, TYPE II, CLASS B, PG 52-40, 4 INCHES OF AGGREGATE BASE COURSE GRADING D-1, AND 14 INCHES OF SUBBASE, GRADING F. TO BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS.



WATER



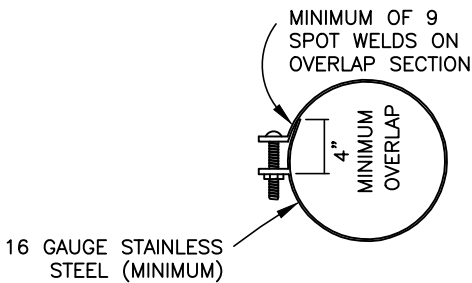
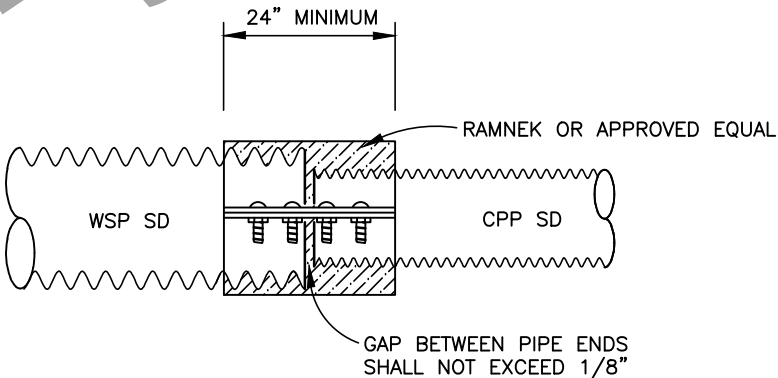
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P:\31337 6th Ave ADA Improve\Acad Civil3D Drawings\1-Produce\1-P-Water-NOTES Mon, Feb/26/22 03:31pm

WATER NOTES

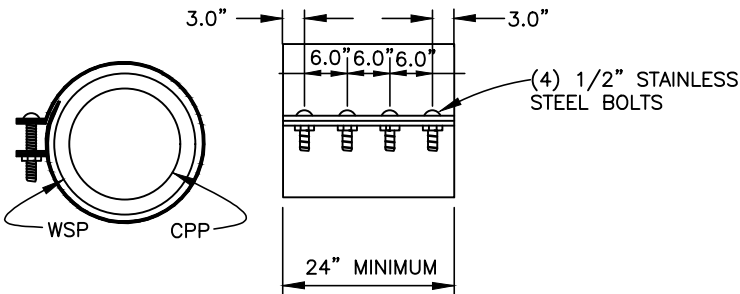
- GRADES, ALIGNMENTS, APPROACH LOCATIONS, LENGTHS AND LOCATIONS OF STORMDRAINS, UTILITIES, AND INSULATION SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. ALL DISTANCES SHOWN IN THE PLANS ARE HORIZONTAL MEASUREMENTS.
- SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK OR CURBING ABUTS EXISTING. SAWCUTS SUBSIDIARY TO RESPECTIVE 627 PAY ITEMS.
- STRUCTURAL EXCAVATION, PIPE BEDDING, AND BACKFILL ARE SUBSIDIARY TO THE ITEMS INSTALLED.
- GET ENGINEER’S APPROVAL PRIOR TO ANY WORK OUTSIDE OF THE DESIGNATED PROJECT LIMITS, EASEMENT, OR RIGHT OF WAY.
- PRESERVE / PROTECT OR REPLACE EXISTING LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES TO ORIGINAL / EXISTING CONDITIONS. PAYMENT IS SUBSIDIARY TO ITEM 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- NUMEROUS UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND GET LOCATES PRIOR TO ANY EXCAVATION.
- VERIFY LOCATION AND ELEVATION OF NEARBY UNDERGROUND WATER, SEWER, STORM DRAIN, GAS OR CABLES (BOTH MAINS AND SERVICES), AND REPORT TO ENGINEER BEFORE STARTING WORK THAT WILL CROSS THESE UTILITIES. WORK SUBSIDIARY TO RESPECTIVE 627 PAY ITEMS.
- WORK IS REQUIRED UNDER EXISTING OVERHEAD CABLES. PROTECT EQUIPMENT AND PERSONNEL AS REQUIRED SUBSIDIARY TO THOSE WORK ITEMS.
- COMPLY WITH THE LATEST EDITION OF GOLDEN HEART UTILITIES (GHU) "STANDARDS OF DESIGN & CONSTRUCTION" AND "SERVICE LINE STANDARDS".
- VERIFY ELEVATION OF WATER/ SEWER CONNECTION POINTS AND REPORT THESE SURVEY ELEVATIONS TO THE ENGINEER SO CHANGES CAN BE MADE IN THE GRADES AS REQUIRED TO MATCH EXISTING IMPROVEMENTS. PAYMENT SUBSIDIARY TO 642.0001.0000 CONSTRUCTION SURVEYING.
- APPLY 2 INCHES OF ADDITIONAL INSULATION TO WATER MAIN OR WATER SERVICE FOR A DISTANCE OF 7 LF EACH SIDE OF ANY STORM DRAIN OR SANITARY SEWER CROSSING AS SHOWN ON PLANS. PAY SUBSIDIARY TO RESPECTIVE 627 PAY ITEMS.
- APPLY 2 INCHES OF ADDITIONAL INSULATION TO WATER MAIN OR WATER SERVICE WHERE IT IS WITHIN 7 LF HORIZONTALLY OF STORM DRAIN OR SANITARY SEWER MAIN AS SHOWN ON PLANS. PAY SUBSIDIARY TO RESPECTIVE 627 PAY ITEMS.
- FIELD STAKE ALL WATER LOCATIONS FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION. WORK SUBSIDIARY TO RESPECTIVE 627 PAY ITEMS.
- LOCATE ALL WATER SERVICES USING CONTRACTOR PROVIDED MAGNETIC LOCATOR, OTHER DEVICE DESIGNED FOR WATER SERVICE LOCATES, OR ANY MEANS NECESSARY TO FIND THE SERVICES, PAYMENT SUBSIDIARY TO WATER OR SPRINKLER SERVICES.
- EXPPOSE SERVICE SADDLES ON THE EXISTING WATER MAINS AND VERIFY THEY ARE ACTIVE. GHU WILL NOT LOCATE WATER SERVICES. ALL COSTS ASSOCIATED WITH FINDING WATER SERVICES WITHIN 10 FEET LEFT OR RIGHT HORIZONTALLY FROM THE LOCATION SHOWN ON THE PLANS OR STAKED BY THE ENGINEER ARE SUBSIDIARY TO WATER SERVICE CONNECTION OR SEWER SERVICE CONNECTION, RESPECTIVELY.
- MAINTAIN EXISTING UTILITY CUSTOMER SERVICE EXCEPT MAXIMUM 4 HOUR OUTAGE FOR NEW MAIN OR SERVICE RECONNECTIONS. 48 HOUR ADVANCE PUBLIC NOTICE IS REQUIRED.
- EXISTING TELECOMMUNICATION CABLES SHOWN ON THE PLAN SHEETS MAY INCLUDE ACS, GCI, OR MTAC UTILITIES.
- ABANDON EXISTING WATER CONDUIT IN PLACE, EXCEPT WHERE CONFLICTS ARISE AS A RESULT OF NEW CONSTRUCTION. WHERE CONFLICTS EXIST, REMOVE EXISTING WATER CONDUIT. PLUG ALL ENDS OF ABANDONED PIPE NOT REMOVED WITH 12 INCHES OF SPRAYED URETHANE FOAM OR 4 INCHES OF CONCRETE OR FILL WITH SLURRY AS SHOWN IN PLANS. PAYMENT IS SUBSIDIARY TO PAY ITEM 202.0001.0000.
- RESTRAIN ALL MECHANICAL JOINT BENDS AND PUSH ON JOINTS FROM BENDS OR FITTINGS TO TRANSITION COUPLINGS OR WITHIN 45 FEET OF A BEND. RESTRAIN ALL PUSH ON JOINTS SHOWN TO BE DEFLECTED IN THE PLANS. RESTRAIN ALL VALVES OR REDUCERS WITH MEG-A-LUGS OR APPROVED EQUAL. USE MJ ADAPTERS INSTEAD OF SHORT RESTRAINED PUPS.
- INSTALL ALL SERVICE VALVES AND SADDLES BEFORE MAINLINE TESTING.
- INSTALL DUAL COPPER TUBING FOR ALL WATER SERVICE RECONNECTIONS WITH SIZE AS INDICATED ON PLANS AND PIPING LENGTH TO RIGHT-OF-WAY. ADAPT TO EXISTING SIZE AS NEEDED.
- SCHEDULE ALL UTILITY OUTAGES TO TAKE PLACE DURING NON BUSINESS HOURS. ALL COSTS TO PROVIDE AND INSTALL TEMPORARY MEASURES ON EXISTING UTILITIES ARE SUBSIDIARY TO THE UTILITY PAY ITEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES THAT RESULT FROM OUTAGES BEYOND THE PRESCRIBED PERIOD.
- PAYMENT FOR ALL SHORING, BRACING, TRENCH BOXES, ETC. TO PROTECT BUILDINGS, TRAFFIC, AND PERSONS SHALL BE SUBSIDIARY TO THE STRUCTURE BEING INSTALLED.
- PROTECT OR REMOVE AND REPLACE IN SAME LOCATION OR TO THE SIDE OF THE ROADWAY, EXISTING MARKER POSTS FOR GAS, BURIED CABLE, WATER, SEWER, OR STORM DRAIN, SUBSIDIARY TO OTHER ITEMS OF WORK.
- FINAL ADJUSTMENT OF MANHOLE FRAMES AND COVERS, VALVE BOXES AND FLUSHWELLS TO FINISH GRADE IS SUBSIDIARY TO RESPECTIVE PAY ITEMS 604, 626, AND 627.
- USE MECHANICAL JOINT ADAPTERS FOR ALL FITTING / VALVE ASSEMBLIES.
- HYDRANT BURY LINE ELEVATIONS SHALL BE HELD. HYDRANT TEE ELEVATIONS SHALL BE ADJUSTED TO NEAREST NOMINAL HYDRANT BARREL LENGTH.
- PAVEMENT STRUCTURE FOR ROADWAYS WITH EXISTING ASPHALT SHALL BE 3 INCHES OF HMA, TYPE II, CLASS B, PG 52-40, 4 INCHES OF AGGREGATE BASE COURSE GRADING D-1, AND 14 INCHES OF SUBBASE, GRADING F. TO BE PAID FOR UNDER THEIR RESPECTIVE PAY ITEMS.

STORM DRAIN NOTES

- SALVAGE STORM DRAIN CASTINGS AND DELIVER TO THE CITY OF FAIRBANKS PUBLIC WORKS YARD AT 2121 PEGER ROAD. PAY SUBSIDIARY TO RESPECTIVE 603 PAY ITEMS.
- STRUCTURAL EXCAVATION, PIPE BEDDING, AND BACKFILL ARE SUBSIDIARY TO THE ITEMS INSTALLED.
- VERIFY ELEVATION OF STORM DRAIN CONNECTION POINTS AND REPORT THESE SURVEY ELEVATIONS TO THE ENGINEER SO CHANGES CAN BE MADE IN THE GRADES AS REQUIRED TO MATCH EXISTING IMPROVEMENTS. PAYMENT SUBSIDIARY TO PAY ITEM 642.0001.0000 CONSTRUCTION SURVEYING.
- ALL ACCESS FRAMES & COVERS / LIDS IN ASPHALT SHALL BE INSTALLED TO GRADE, DEPRESSED 3/8", BEFORE ASPHALT IS INSTALLED. NO CUTTING OUT ASPHALT SHALL BE ALLOWED WITHOUT APPROVAL OF THE ENGINEER.
- FIELD STAKE ALL STORM DRAIN LOCATIONS FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION.
- CLEAN AFTER CONSTRUCTION ALL NEW AND REMAINING EXISTING STORM DRAIN SYSTEM DOWNSTREAM OF NEW STORM DRAIN, PAYMENT SUBSIDIARY TO PAY ITEM 641.0003.0000 TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION.
- ABANDON EXISTING STORM DRAIN PIPE IN PLACE EXCEPT WHERE CONFLICTS ARISE AS A RESULT OF NEW CONSTRUCTION. WHERE CONFLICTS EXIST, REMOVE EXISTING STORM DRAIN PIPE, PLUG ALL OPEN ENDS OF ABANDONED PIPE NOT REMOVED WITH 12 INCHES OF SPRAYED URETHANE FOAM OR 4 INCHES OF CONCRETE. PAYMENT SUBSIDIARY TO PAY ITEM 202.0001.0000.
- INSTALL STORM DRAIN PIPE BEDDING PER PIPE BEDDING DETAIL.
- FINAL ADJUSTMENT OF MANHOLE FRAMES AND COVERS, AND INLETS TO FINISH GRADE WITHIN PROJECT LIMITS IS SUBSIDIARY TO RESPECTIVE 603 PAY ITEMS.



CLAMP SHALL BE FULL CIRCLE CLAMP COUPLING WITH NEOPRENE GASKETS AS NECESSARY FOR A TIGHT FIT OR THE LOCALLY FABRICATED BAND AS SHOWN.



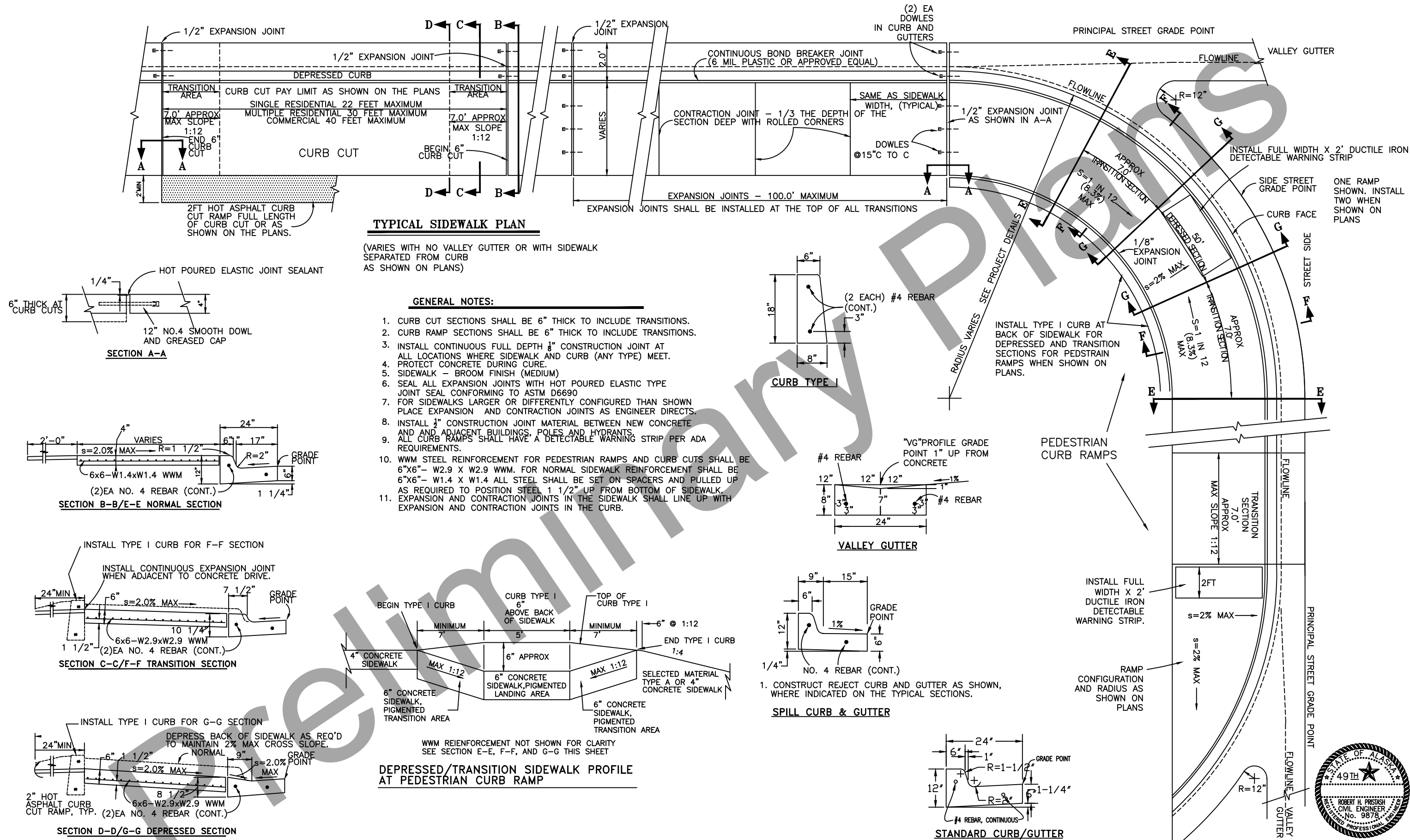
WHEN CONNECTING SD PIPE HAVING DIFFERENT OUTSIDE DIAMETERS, MATCH INSIDE DIAMETERS AND BUILD UP THE SMALLER OD PIPE WITH RAMNEK, OR APPROVED EQUAL.

DETAIL 1
WSP TO CPP CONNECTION

NOT TO SCALE

SD AND WATER
NOTES





11/16/18	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

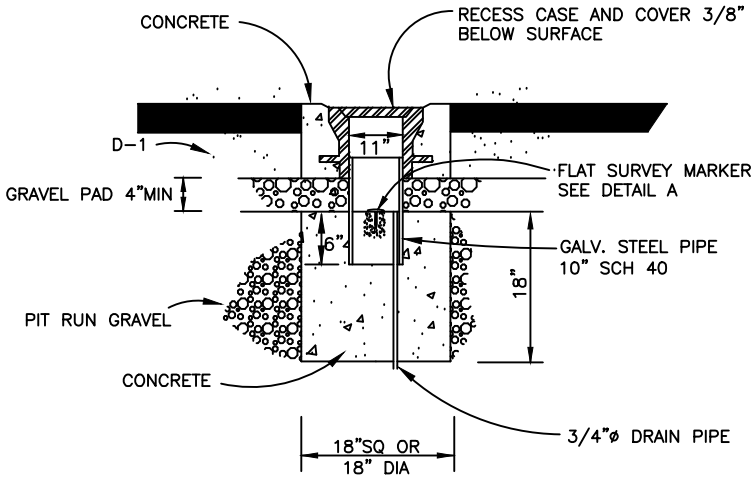
NOT TO SCALE

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

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

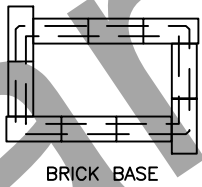
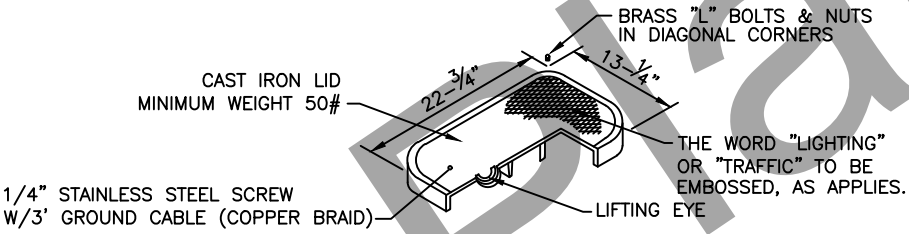
STANDARD CONCRETE DETAILS

CD1

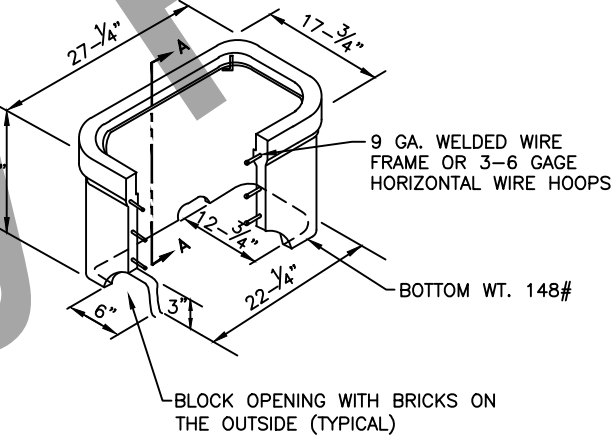


MONUMENT BASE AND CASE DETAIL

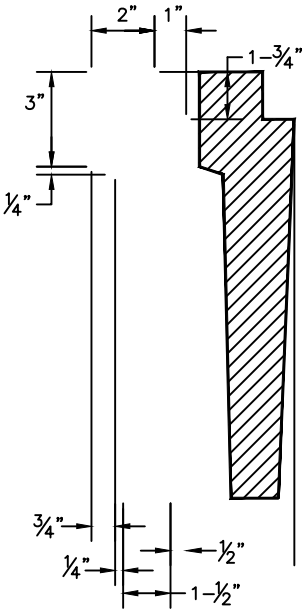
SOLID COVER: 14 1/4" DIA. X 1 1/2"
WEIGHT: 54 LBS.
EMBOSSED WITH CUSTOM MC LOGO
FRAME: 9" DEEP & 18 1/2" OD FLANGE
WEIGHT: 116 LBS
HEAVY TRAFFIC LOADING
MACHINED FRAME AND COVER
EJW NO. 3685
OR APPROVED EQUAL



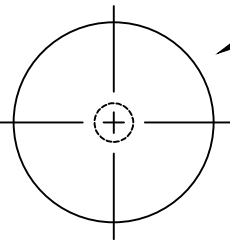
TYPE IA JUNCTION BOX



TYPE IA JUNCTION BOX DETAIL

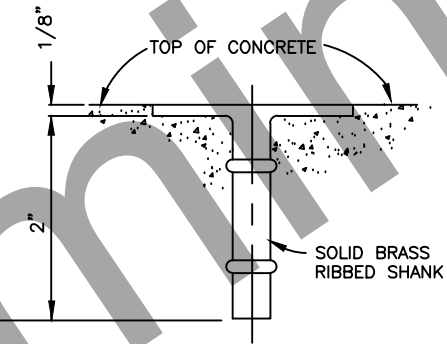


SECTION A-A



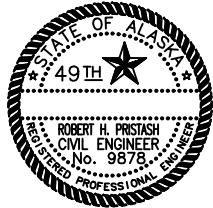
DIE-CAST SOLID BRASS 2" Ø TOP

SOKKIA #813403 SURVEY MONUMENT MARKER (OR APPROVED EQUAL)



PROFILE

FLAT SURVEY MARKER DETAIL A



11/19/14	JUNCTION BOX ADDED	RHP,STC
2/1/10	NEW CD2	RHP,GSC
10/27/08		RHP
DATE	REVISION	BY

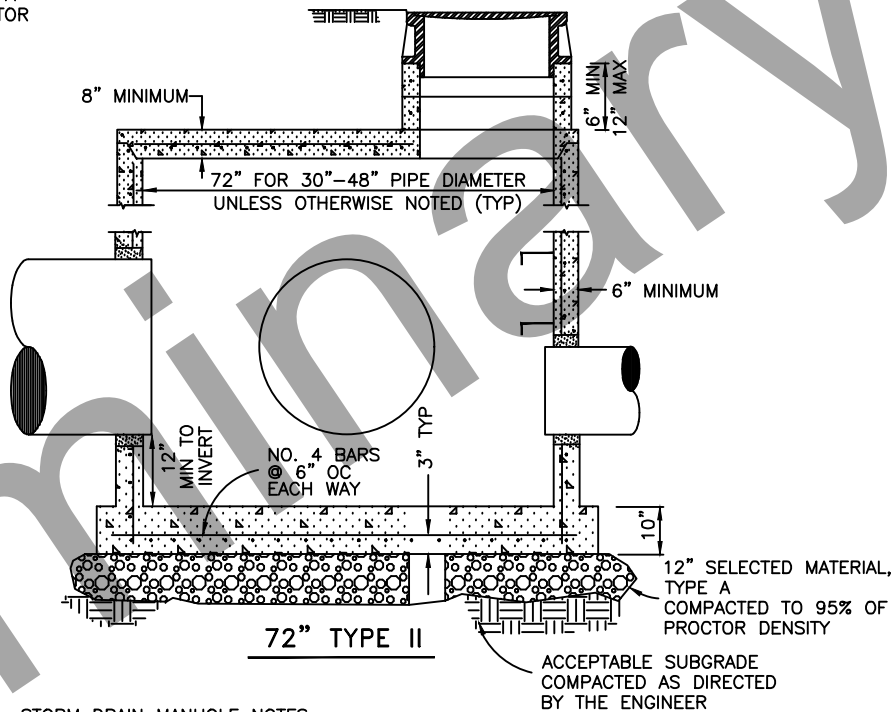
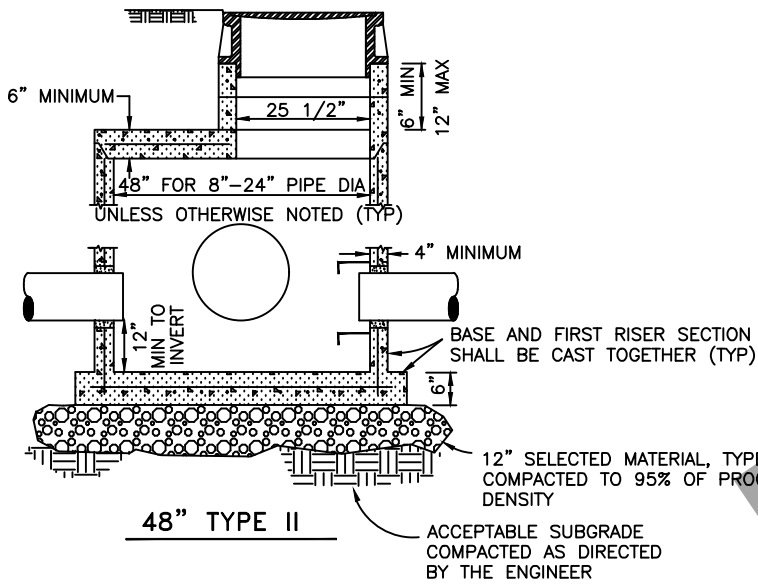
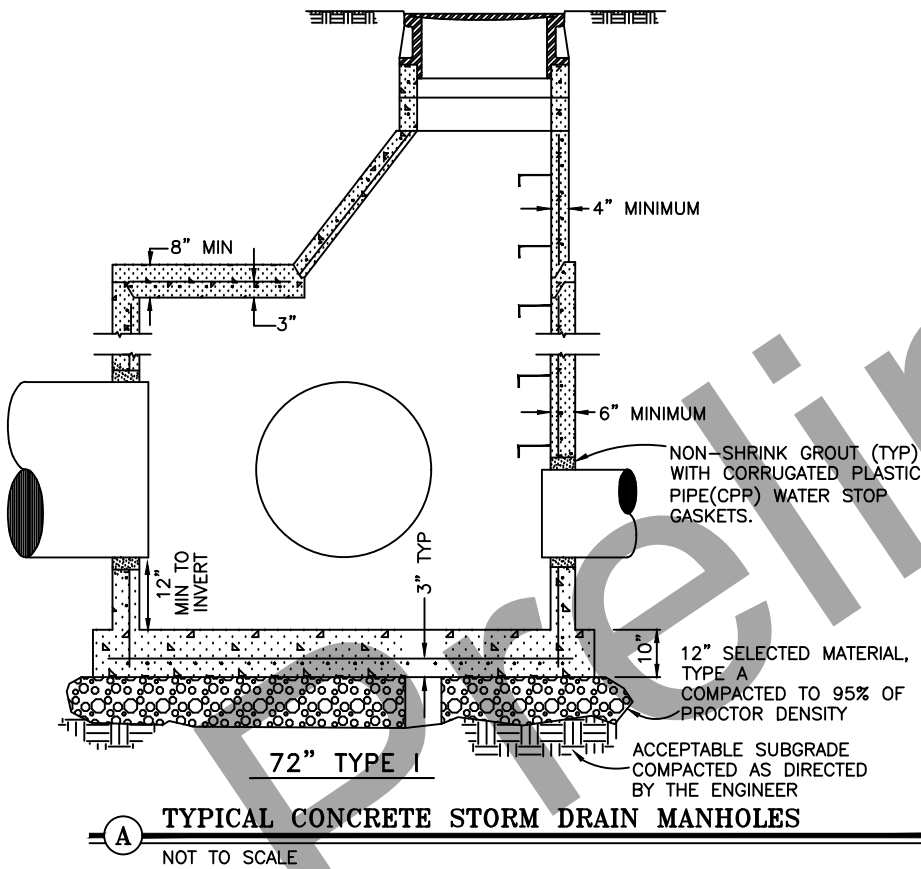
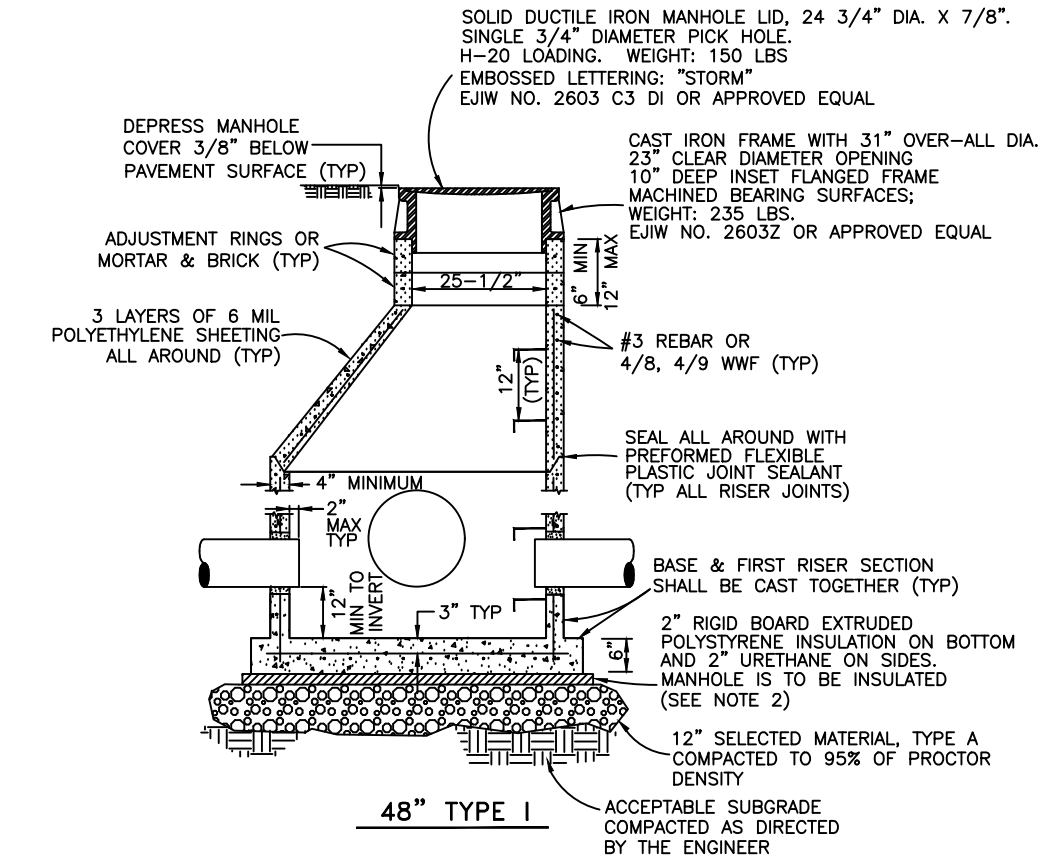
NOT TO SCALE

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

CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

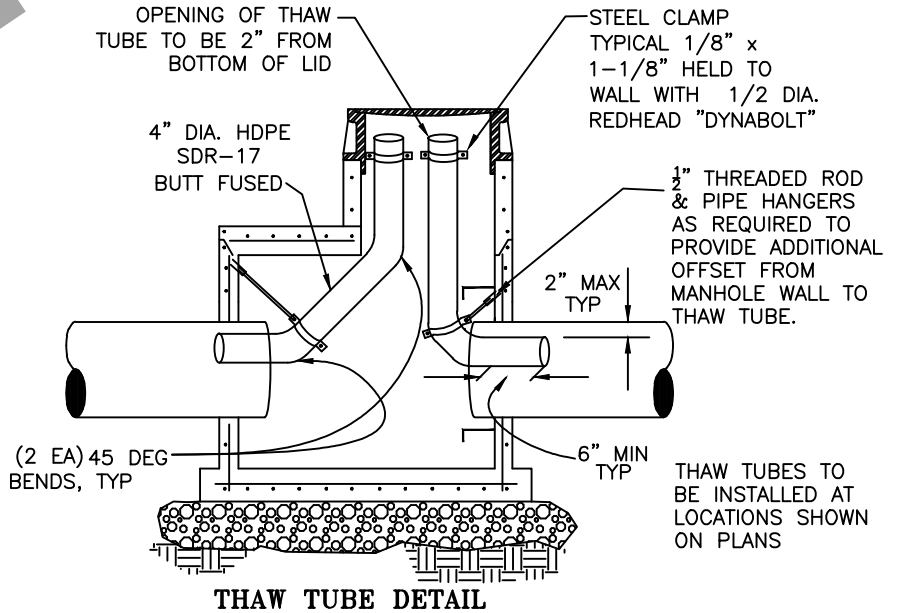
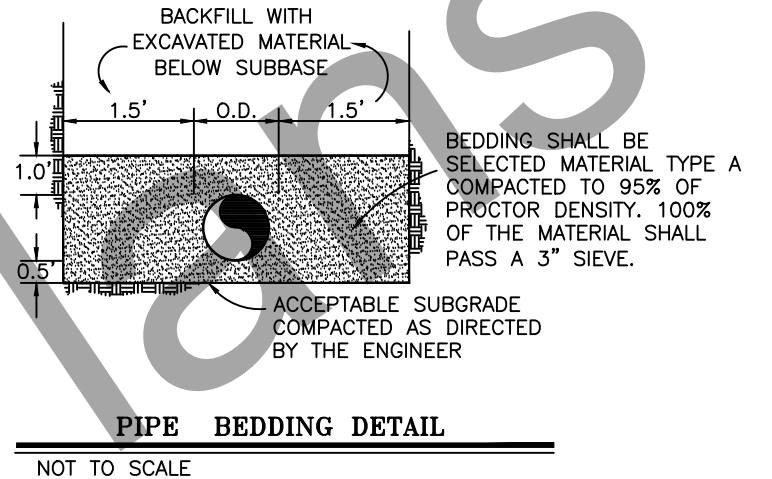
STANDARD CONCRETE DETAILS
MONUMENT BASE, CASE AND MARKER

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.



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'.



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

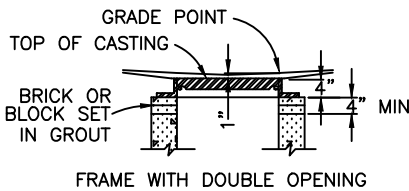
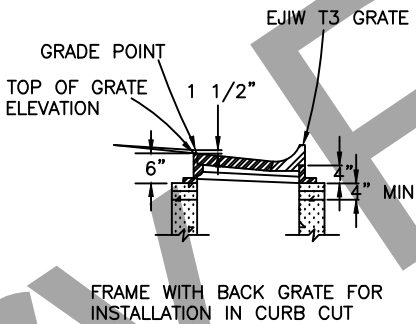
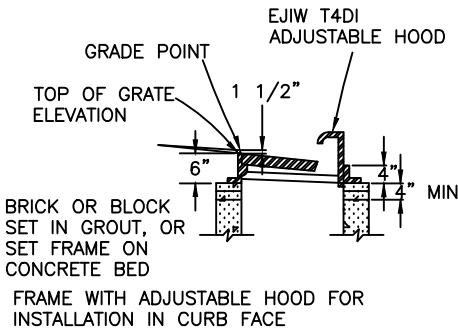
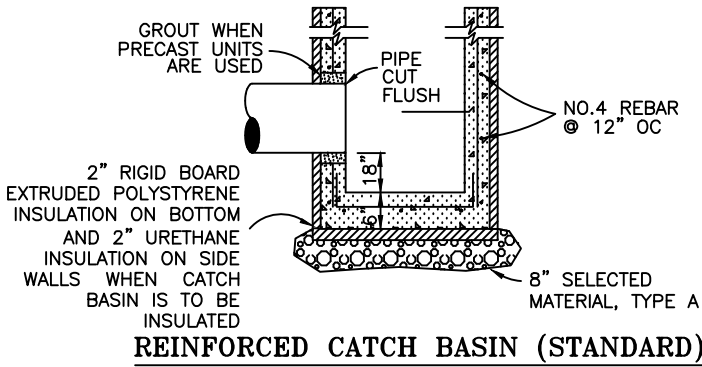
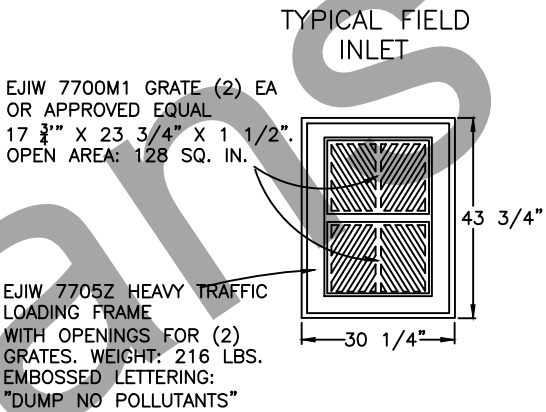
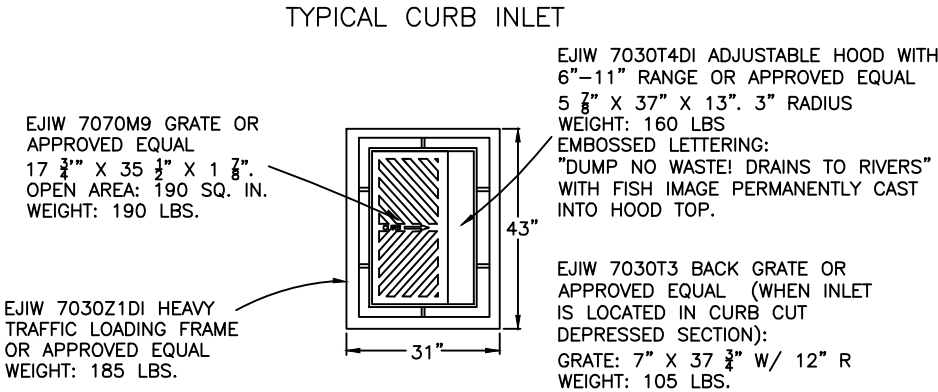
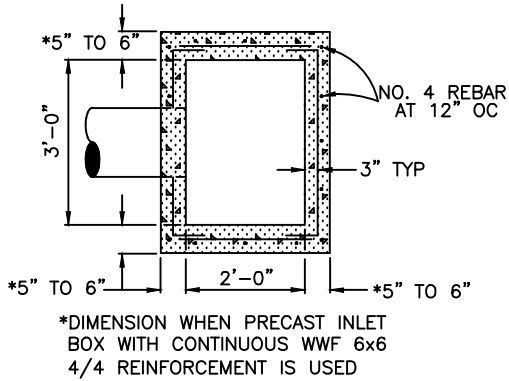
NOT TO SCALE

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

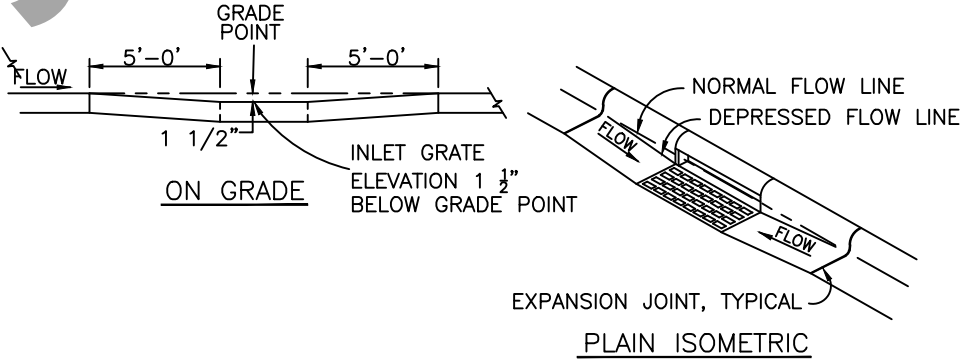
CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

STANDARD DETAILS
STORM DRAIN MANHOLES, THAW TUBES AND BEDDING

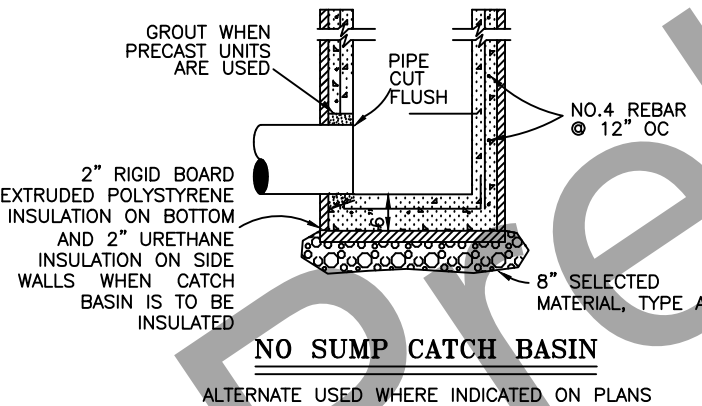
SD1



INLET BOX/CATCH BASIN DETAILS
NOT TO SCALE

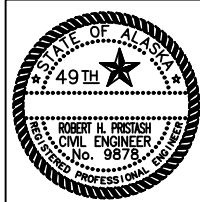


DEPRESSION IN FLOW LINE AT INLET



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.



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

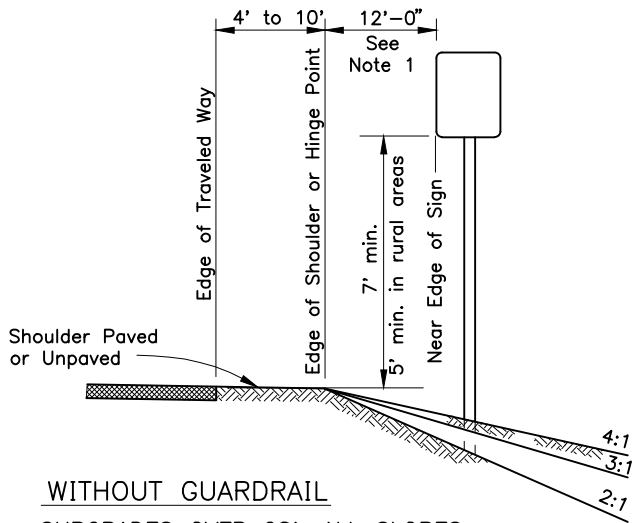
CITY OF FAIRBANKS, ALASKA
ENGINEERING DIVISION

STANDARD DETAILS
STORM DRAIN CATCH BASIN

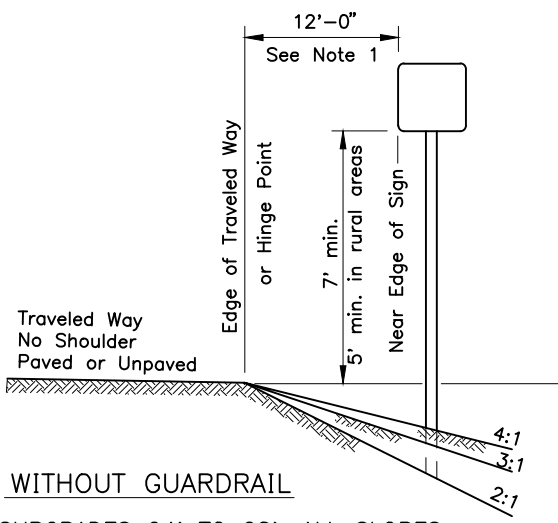
SD2

GENERAL NOTES

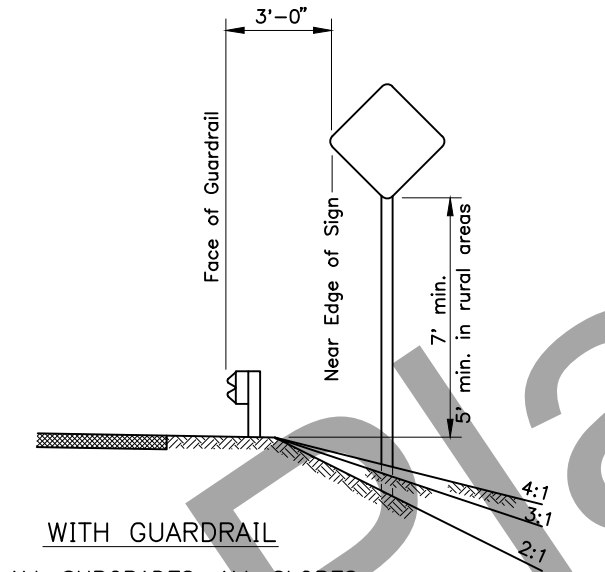
1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6' where shoulder width is 6' or greater.
2. Add 6" to mounting height on unpaved roads.
3. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
4. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
5. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.
6. Minimum mounting height is 7'-0" where parking or pedestrian movements are likely to occur, or where signs extend over sidewalks.
7. For construction signs in rural areas, mounting height shall be 7' minimum.



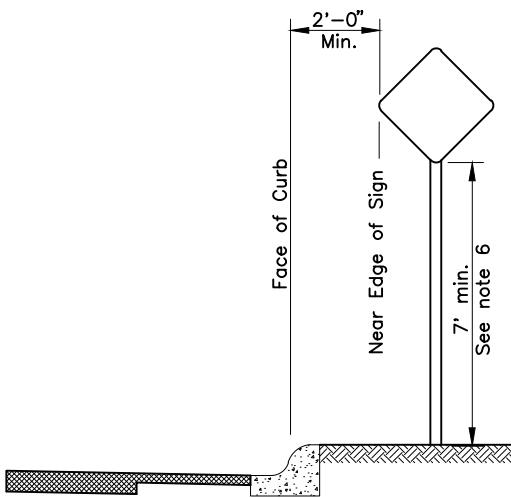
WITHOUT GUARDRAIL
SUBGRADES OVER 28', ALL SLOPES



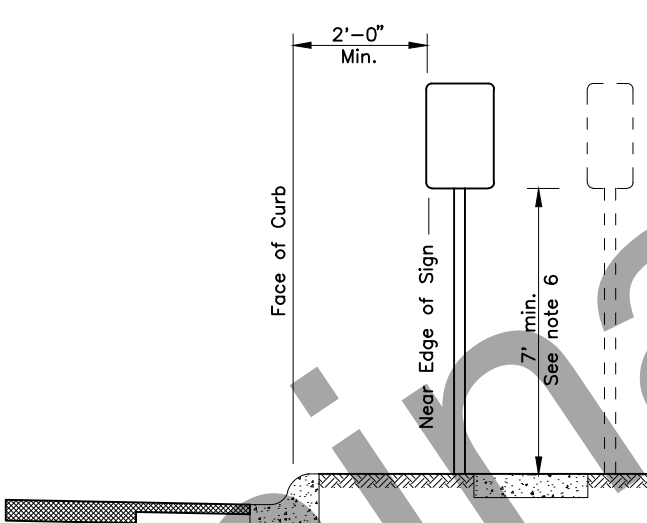
WITHOUT GUARDRAIL
SUBGRADES 24' TO 28', ALL SLOPES



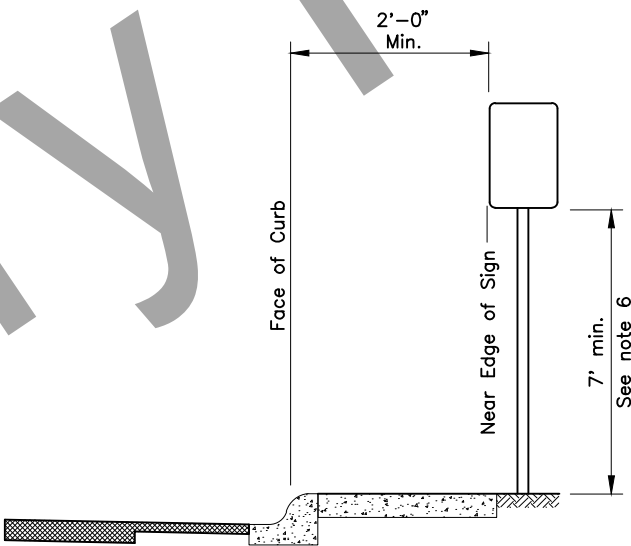
WITH GUARDRAIL
ALL SUBGRADES, ALL SLOPES



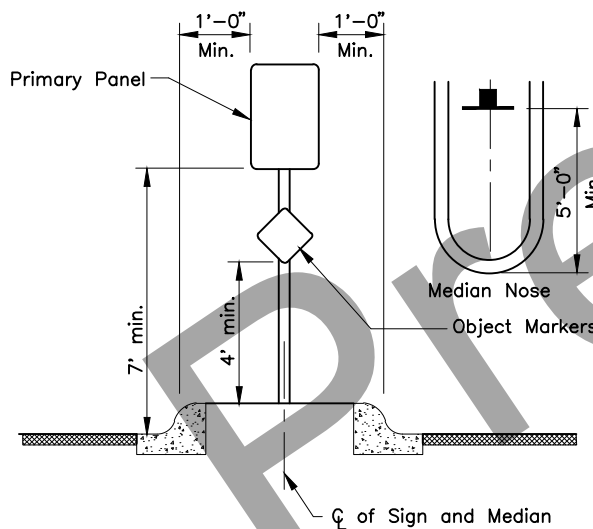
CURB WITHOUT SIDEWALK



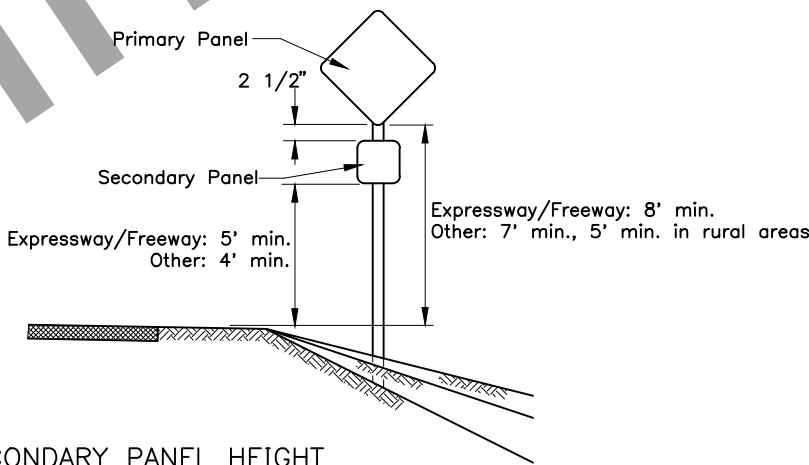
CURB WITH PARKWAY AND SIDEWALK
(If R/W width permits, signs should be placed behind sidewalk.)



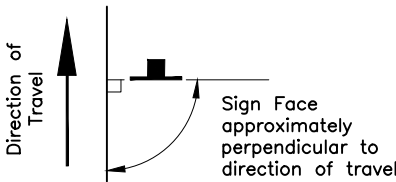
CURB WITH SIDEWALK WITHOUT PARKWAY



RAISED MEDIANS
Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT
ALL TWO PANEL MOUNTING



SIGN POSITIONING

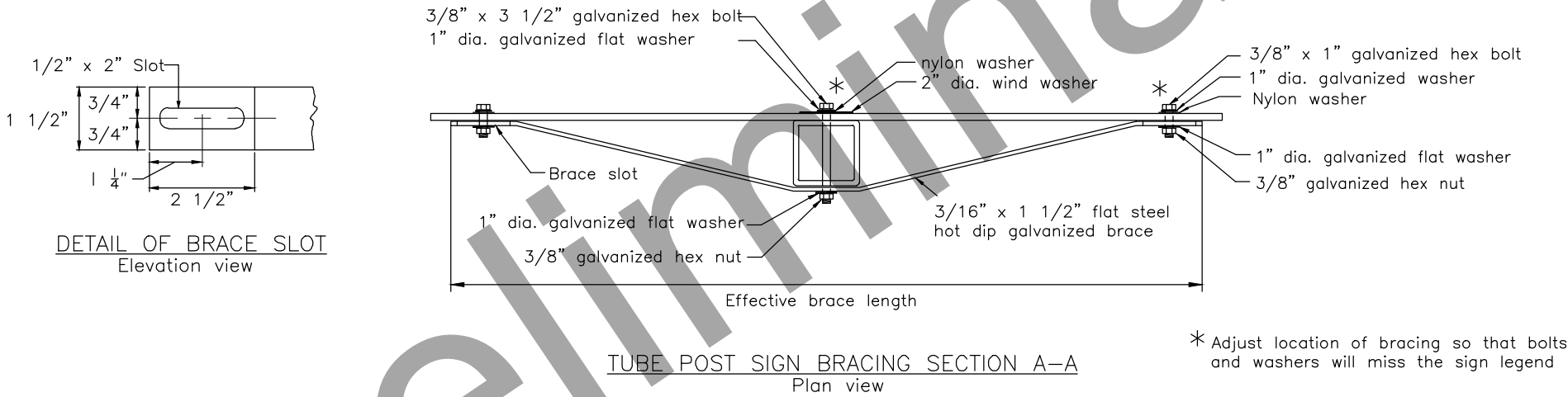
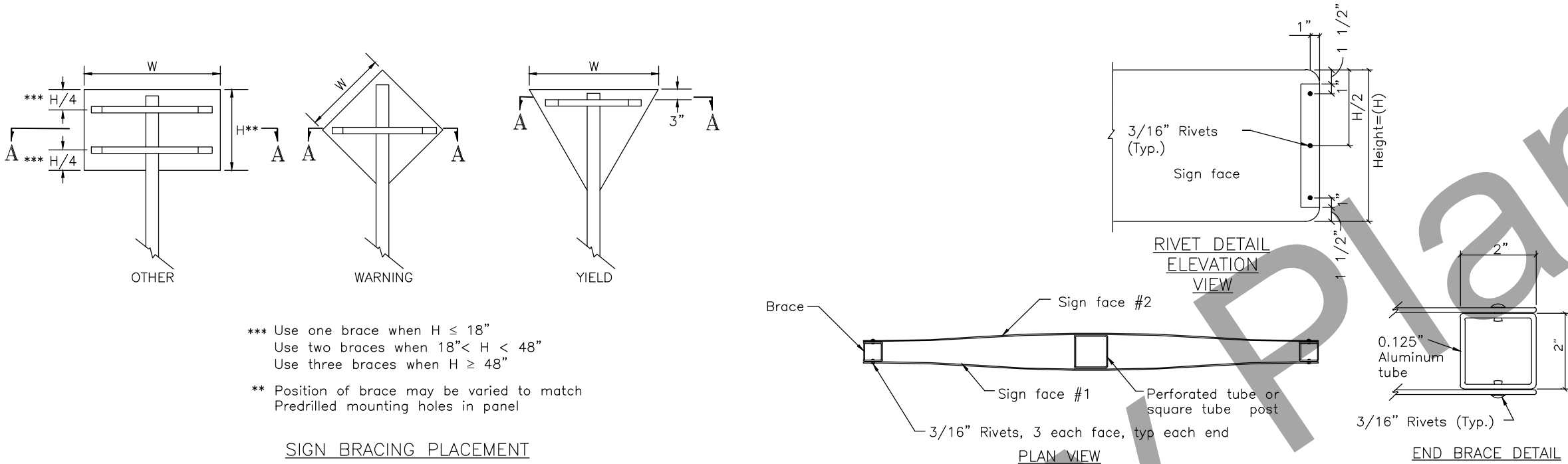
State of Alaska DOT&PF
ALASKA STANDARD PLAN

POST MOUNTED SIGN
OFFSET AND HEIGHT

Adopted as an Alaska
Standard Plan by *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By:KLK Date: 7/8/2020
Next Code and Standards Review Date: 7/8/2030



Sign Width(W)	Effective Brace Length		
	Warning	Yield	Other
30"	36"	24"	24"
36"	42"	30"	30"
42"	48"	-	36"
48"	Two posts	36"	42"

< 30" No bracing required and use square tube

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

BRACING FOR SIGNS
MOUNTED ON SINGLE POST

Adopted as an Alaska
Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

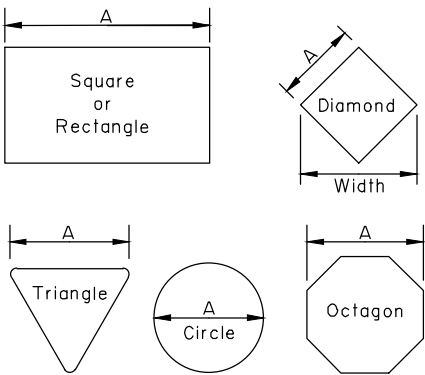
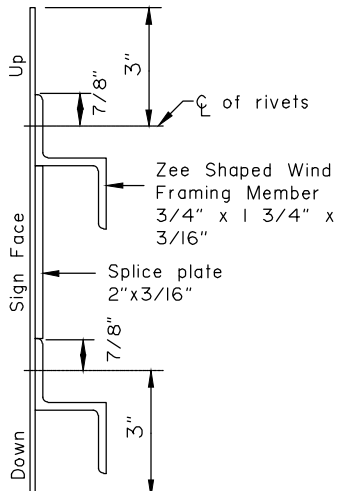
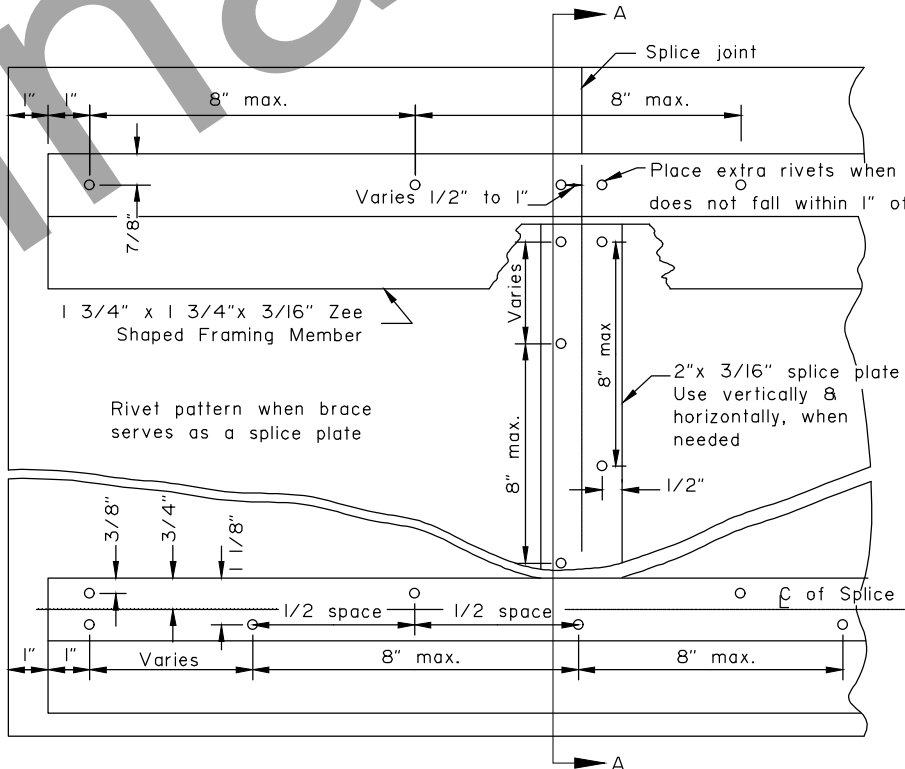
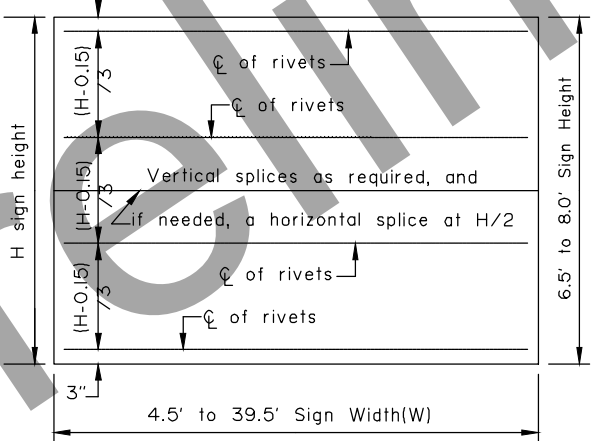
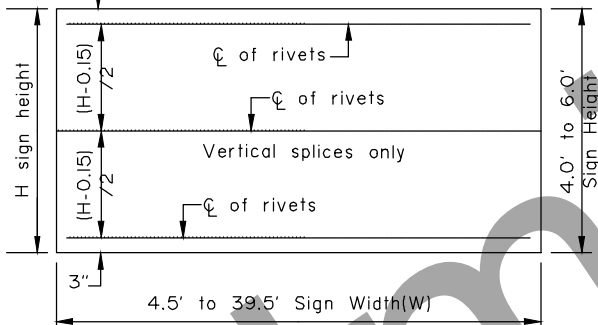
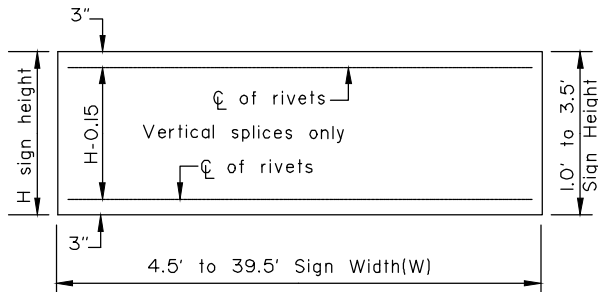
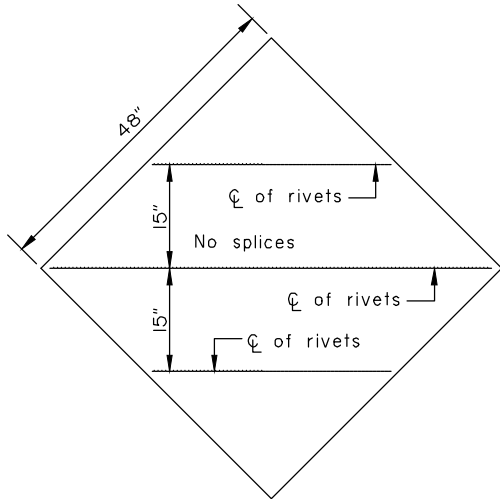
Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

GENERAL NOTES

1. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
2. Fabricate all signs from 0.125" thick aluminum sheeting.
3. Sign fabricators may use alternates to the zee shaped framing member with approval of the engineer, if the frame manufacturer certifies their design equals or exceeds the strength of the zee shaped design.
4. Install one piece wind framing members on all signs up to 23.5' wide. Use one splice in each wind frame on all signs wider than 23.5'. Locate splices at least 18" from all posts and panel edges. Stagger splices in adjacent framing members at least 8.0' apart.
5. Attach wind framing members with rivets or with an engineer approved, double sided, high strength, adhesive tape. Clean and handle sheeting and framing members and apply tape in accordance with the tape manufacturer's written instructions. Install two rivets in both ends of each framing member.
6. Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
7. Sign fabricators may use sign panels extruded with integral framing with approval of the engineer, if the manufacturer certifies their design equals or exceeds the strength of the 0.125" thick panel with framing attached to it.
8. Frame all signs taller than 8.0' with five wind framing members located (H-0.15)/4 spaces. If needed, make a horizontal splice at the middle wind frame.
9. Do not use round pipes for sign supports.



Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS

WIND FRAMING LOCATIONS

RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE

SECTION A-A

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SIGN FRAMING

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

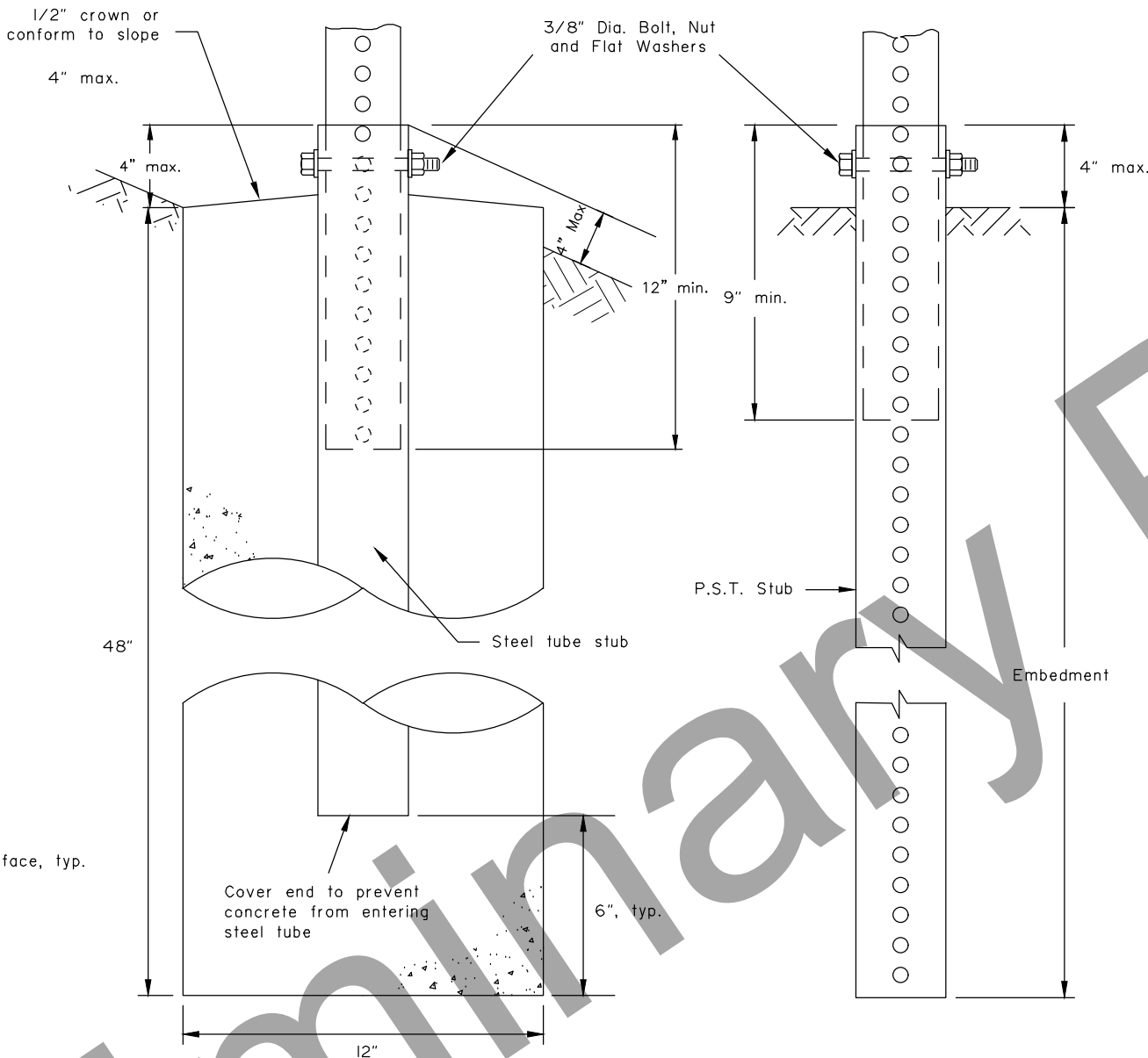
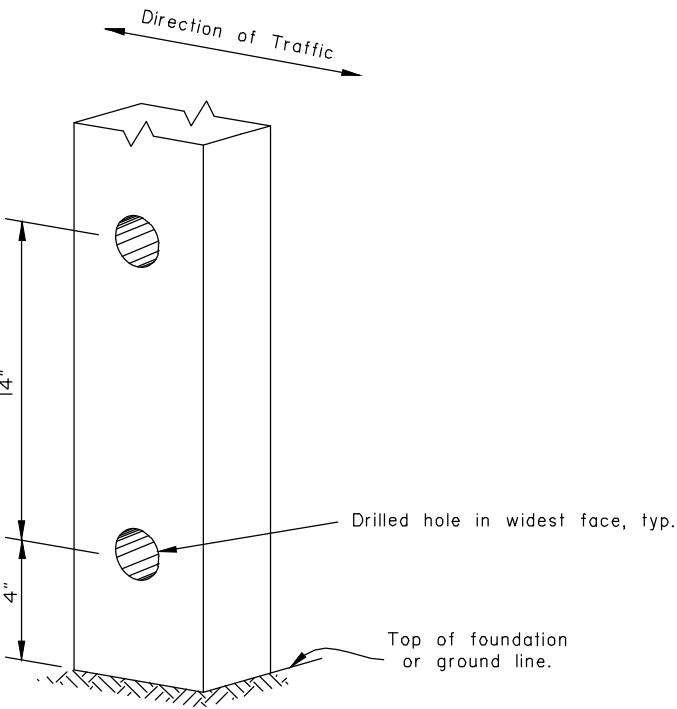
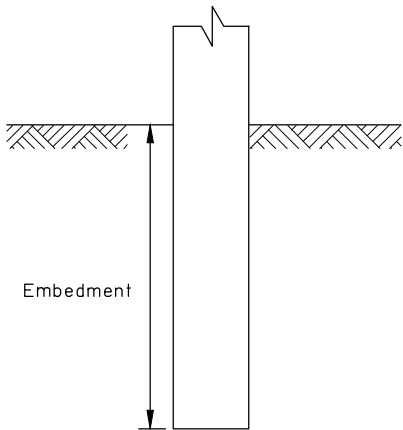
Next Code and Standards Review date: 7/8/2030

GENERAL NOTES:

1. Sign shall be placed symmetrically around posts and refer to Standard Plan S-00 for sign framing details.
2. See plans for type of post, size and embedment type.
3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
4. Concrete shall be class B.
5. Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
6. Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.

SIGN POST SPACING NOTES:

1. Install sign support in accordance with the table below, unless otherwise required by plans or specifications.
2. Exceptions:
 - a. Use one post for all E5-I gore signs, regardless of width.
 - b. Use one 2.5" P.S.T. for all STOP signs, with or without street name signs.
3. Supports placed within 7' of each other must be acceptable for that use. See tables below for the sizes of wood posts and P.S.T.s that may be used within 7'. See Manufacturer's documentation for breakaway couplings and tubes that may be used within 7'.
4. See Standard Plan S-3I for frangible couplings, hinges, and foundations for tube and W-shape sign supports.



WOOD SIGN POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	4'-1"	2
4"x6"	1 1/2"	5'-3"	2
6"x6"	1 1/2"	4'-9"	1
6"x8"	3"	4'-9"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS

PERFORATED STEEL TUBES (P.S.T.)		
POST SIZE	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	4'-8"	2
1 3/4" x 1 3/4"	4'-6"	2
2" x 2"	4'-3"	2
2 1/4" x 2 1/4"	5'-0"	1
2 1/2" x 2 1/2"	4'-6"	1

* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

PERFORATED STEEL TUBE (PST) POSTS

TUBE SIGN POST SPACING								
Sign Width (feet)	No. of Posts	Distance Between Posts	Sign Overhang	Post Type				Notes
				P.S.T.	Wood	Steel Tube	W-Shape	
0.5 to 4.0	1	-	0.5W	X	X	X		See Note 2.
4.5 to 10.0	2	0.6W	0.2W	X	X	X		See Note 3.
10.5 to 11.0	2	6	Varies	X	X	X		See Note 3.
11.5 to 13.0	2	8	Varies				X	
13.5 to 20.0	2	0.6W	0.2W				X	
20.5 to 22.5	3	8	Varies				X	
23.0 to 29.5	3	0.35W	0.15W				X	
30.0 to 31.5	4	8	Varies				X	
32.0 to 40.0	4	0.25W	0.125W				X	

TUBE SIGN POST SPACING

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

LIGHT SIGN STRUCTURE
POST EMBEDMENT

Adopted as an Alaska
Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030