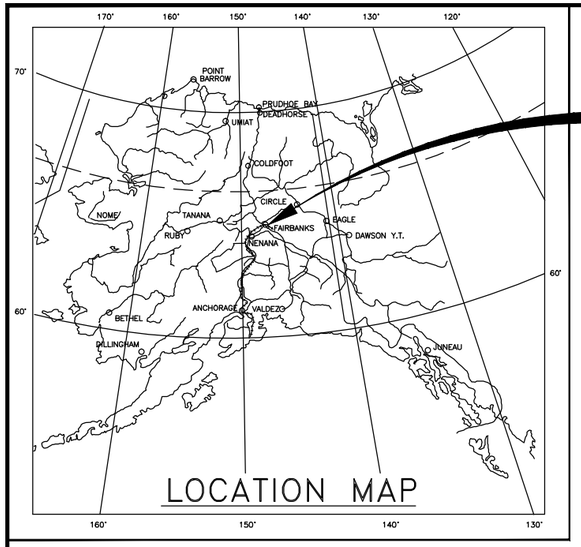
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	A1	- -
CDS ROUTE: 176470	MILEPOINT: 0.05 TO 0.56			



PROJECT LOCATION

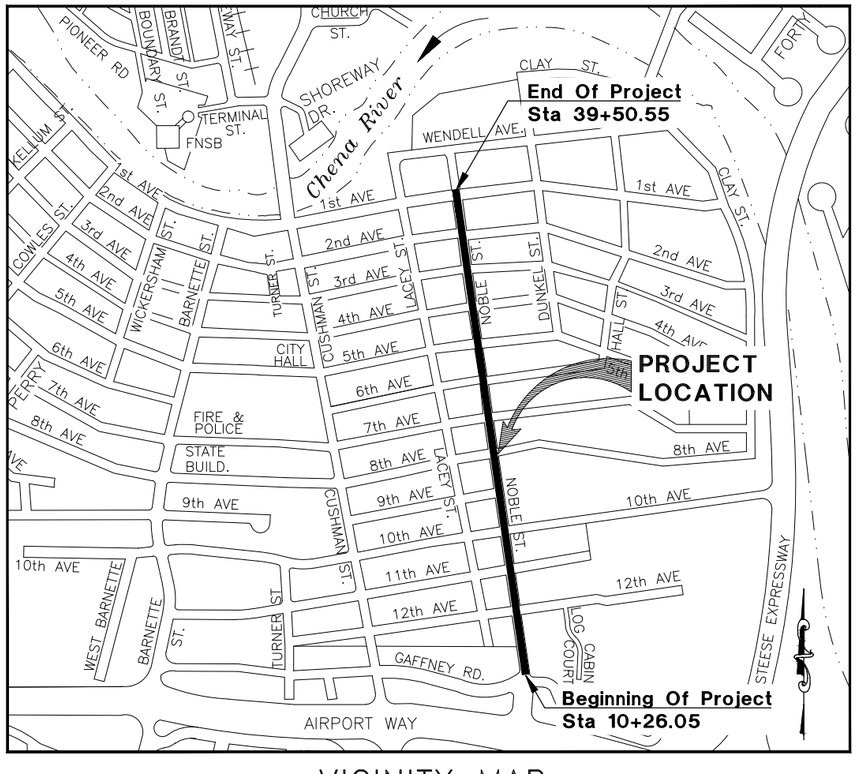
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

STP-000S(413)/61725

FAIRBANKS NOBLE STREET UPGRADE

STORM DRAIN, GRADING, PAVING, PAVEMENT MARKINGS, SIGNING, DRIVEWAYS, DRAINAGE, LIGHTING, TRAFFIC CONTROL



VICINITY MAP
FAIRBANKS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1-A3	TITLE SHEET/SHEET LAYOUT INDEX/PROJECT CONTROL PLAN
B1-B2	TYPICAL SECTIONS
C1-C4	LEGEND, ABREVIATIONS AND NOTES/QUANTITIES/SCHEDULES
E1	CONCRETE DETAILS
F1-F6	ROADWAY PLAN AND PROFILES
G1-G7	DRIVEWAYS/DRIVEWAY DETAILS
H1-H9	SIGNAGE AND STRIPING, SIGN SUMMARIES
H10-H11	SIGN DETAILS
H12-H55	SIGNAL AND ILLUMINATION PLAN AND DETAILS
J1-J3	INTERSECTION DETAILS
J4-J9	GRADING PLANS
J10-J12	CONTROL POINT TABLES
L1-L18	LANDSCAPE PLANS AND DETAILS
M1-M2	RETAINING WALL PLANS
P1	EROSION CONTROL NOTES & DETAILS
P2-P7	EROSION CONTROL PLANS
T1	TRAFFIC CONTROL PLAN
U1-U8	STORM DRAIN PLAN AND PROFILES
U9-U10	WATER RELOCATIONS/FIRE HYDRANT & WATER RELOCATION
U11-U18	UTILITY IMPROVEMENTS
U19-U20	ELECTRICAL LEGEND, SPECIFICATIONS & SITE PLAN/ELECTRICAL ONE-LINE DIAGRAM & DETAILS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
AK DOT: A-1, C03-10, C-04.12, E-13.00, F-01.01, G-00.01, G-04.06W, I-20.13, I-21.01, I-22.01, L-03.10, L-23.01, L-24.00, L-25.00, L-26.00, M-13.01, M-16.01, S-00.10, S-00.11, S-05.01, S-05.02, S-23.00, S-31.00, T-20.01, T-21.02, T-22.03, T-23.00, T-30.10, T-31.00, T-32.10, T-34.01, T-35.00, T-40.00, T-52.15, U-03.00
CITY OF FAIRBANKS: SD1, SD2, CD1

DESIGN DESIGNATIONS

ADT (2006)	11,150
ADT (2020)	12,820
ADT (2035)	14,880
DHV (11%)	1410
PERCENT TRUCKS (T)	2%
DIRECTIONAL SPLIT (D)	40/60
DESIGN SPEED (V)	25 MPH
DESIGN EAL'S (2035)	
FUNCTIONAL - 15YR	881,050
FATIGUE - 15YR	1,903,850

PROJECT SUMMARY

WIDTH OF PAVEMENT	34 FT
LENGTH OF GRADING	2917 FT
LENGTH OF PAVING	2917 FT
LENGTH OF PROJECT	0.51 MI

D.O.T. ENGINEER MANAGER: RUSSEL M. JOHNSON

PLANS DEVELOPED BY:
PDC, INC. ENGINEERS
UNDER THE SUPERVISION OF:

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY:

_____ DATE _____
Ryan F. Anderson, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION

_____ DATE _____
Robert A. Campbell, P.E.
Acting Regional Director, Northern Region

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	A2	– –

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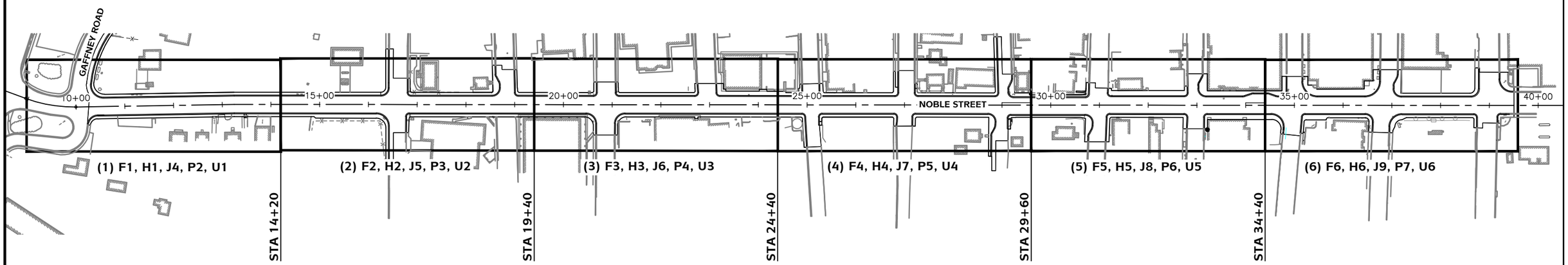
SHEET INDEX LEGEND:

(F) ROADWAY
(G) DRIVEWAYS
(H) SIGNING & STRIPING
(J) GRADING
(M) RETAINING WALLS
(P) ESCP
(U) STORM DRAIN AND UTILITIES

NOTES:

1. SEE SHEET H12 FOR LIGHTING AND SIGNAL SHEET LAYOUT.
2. SEE SHEET L1 FOR LANDSCAPE SHEET LAYOUT.



FEET
100 50 0 100 200

SHEET LAYOUT INDEX

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:04 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	A3	– –

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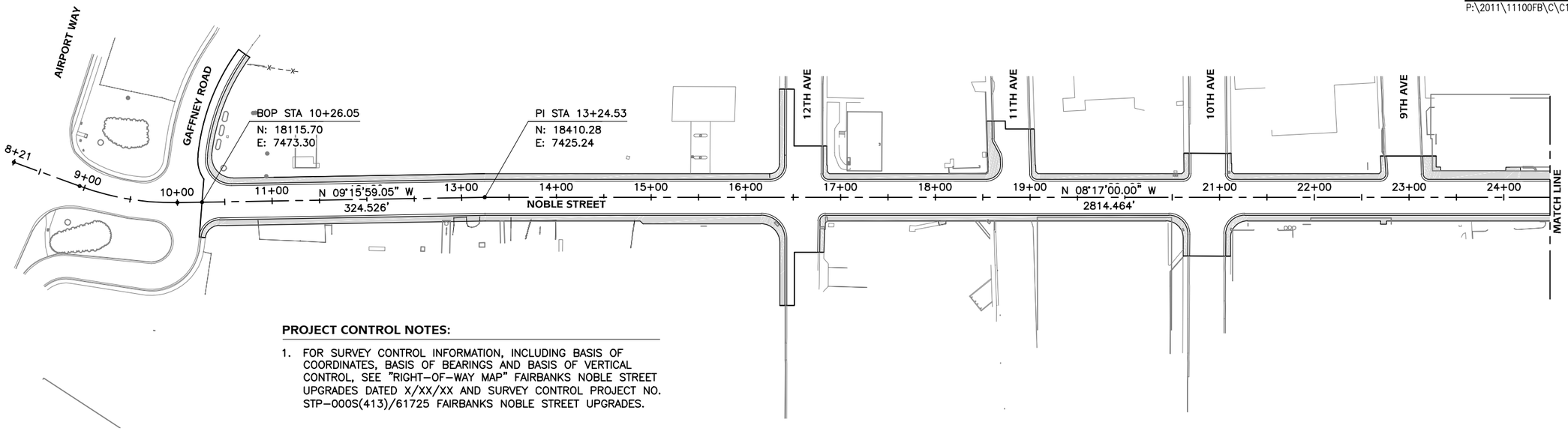
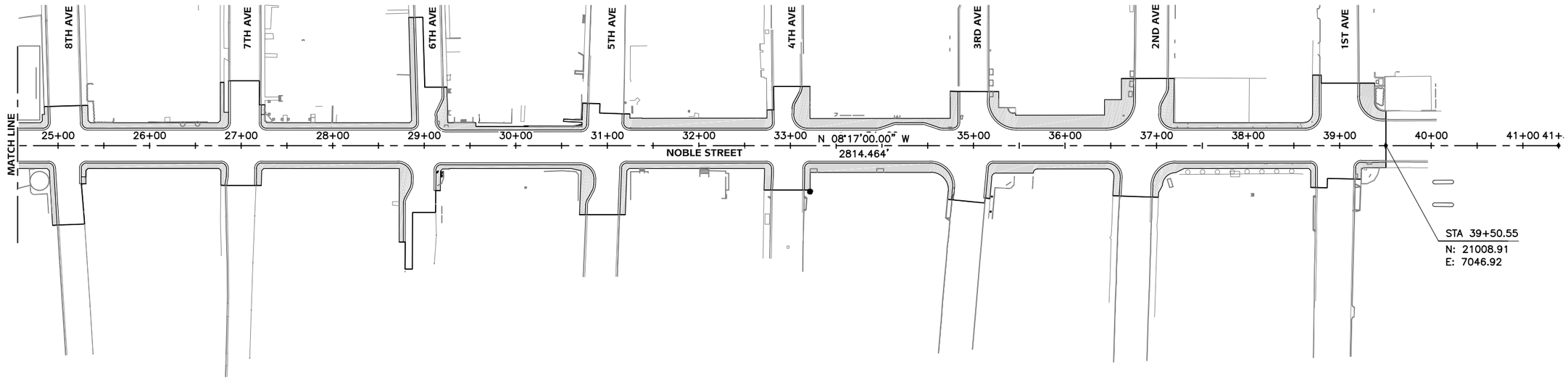


PROJECT CONTROL NOTES:

1. FOR SURVEY CONTROL INFORMATION, INCLUDING BASIS OF COORDINATES, BASIS OF BEARINGS AND BASIS OF VERTICAL CONTROL, SEE "RIGHT-OF-WAY MAP" FAIRBANKS NOBLE STREET UPGRADES DATED X/XX/XX AND SURVEY CONTROL PROJECT NO. STP-000S(413)/61725 FAIRBANKS NOBLE STREET UPGRADES.

FEET
60 30 0 60 120



PROJECT CONTROL PLAN

STATE OF ALASKA
49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:04 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	B1	– –

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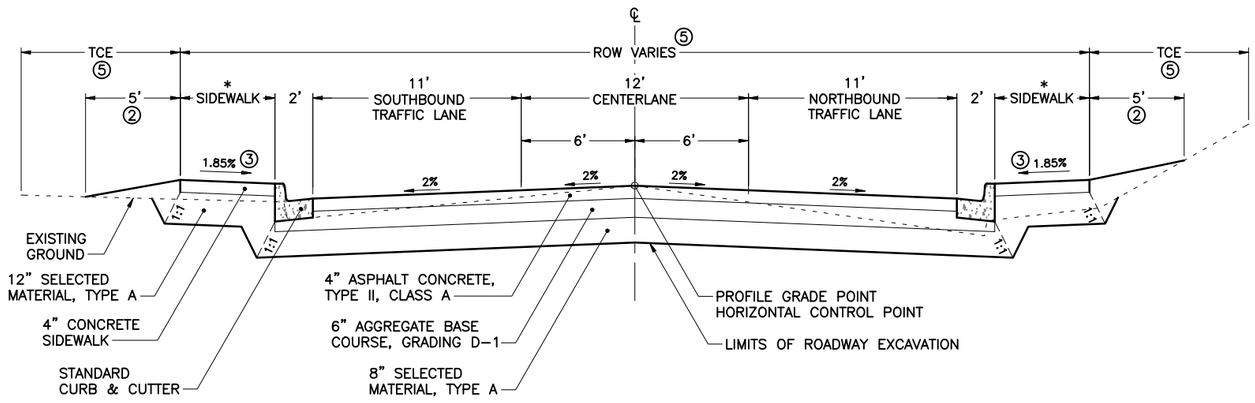
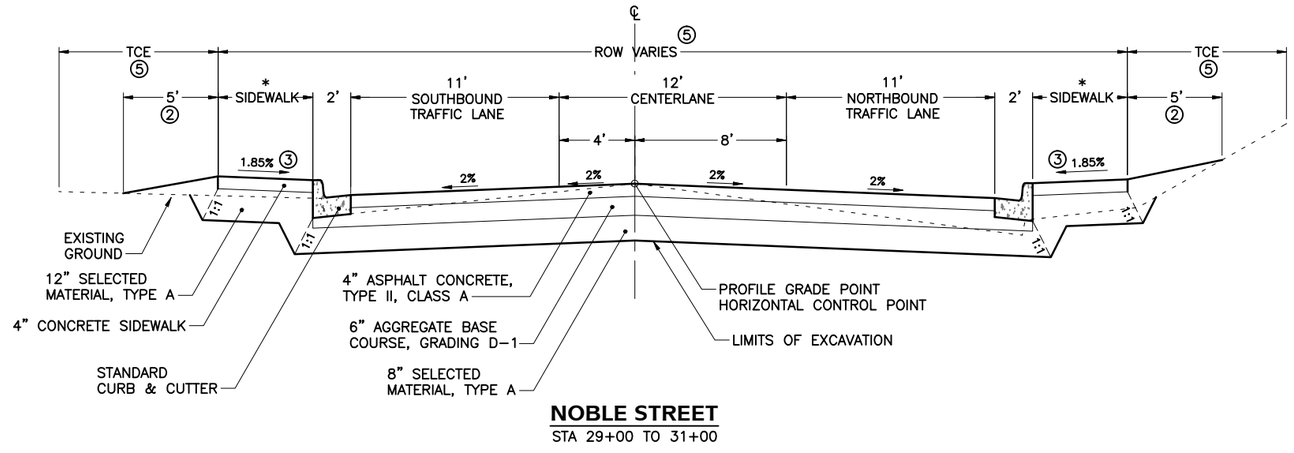


NOBLE STREET
STA 10+26.05 TO 29+00
31+00 TO 39+50.53

*SIDEWALK WIDTHS					
LEFT			RIGHT		
BEGIN STA	END STA	WIDTH (FT)	BEGIN STA	END STA	WIDTH (FT)
10+59	22+71	6	10+44	28+71	6
23+29	24+56	9.2	29+20	30+70	4
24+56	28+86	6	31+24	32+72	6
29+26	29+56	8	33+24	34+53	10.2
29+56	30+63	4	35+25	35+65	11
31+25	32+74	11	35+72	38+66	6
33+21	34+74	10.6			
35+47	36+45	14			
37+19	38+63	6			



NOBLE STREET
STA 29+00 TO 31+00

NOTES:

1. MAINTAIN PROPOSED NOBLE STREET PAVEMENT STRUCTURE ON SIDE STREETS.
② SLOPE VARIES. WHEN CONCRETE IS TO BE PLACED AT BACK OF SIDEWALK, CONTINUE SIDEWALK STRUCTURE. SEE TABLE ON B2 FOR MATERIAL TYPE.
③ SEE GRADING PLAN FOR VARIANCE IN SIDEWALK GRADE. ON SIDE STREETS, MATCH EXISTING WIDTH UNLESS OTHERWISE NOTED ON GRADING PLAN.
4. SEE GRADING PLAN FOR VARIANCE IN LANE GRADES AT INTERSECTIONS.
⑤ UNLESS OTHERWISE SHOWN ON PLAN.
6. PRESERVE/PROTECT OR REPLACE EXISTING LANDSCAPING, INCLUDING ROCK AND SHRUB ALONG THE BACK SIDE OF NEW SIDEWALK. PAYMENT IS SUBSIDIARY TO ITEM 608(1a).

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TYPICAL SECTIONS (1 OF 2)

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	B2	--

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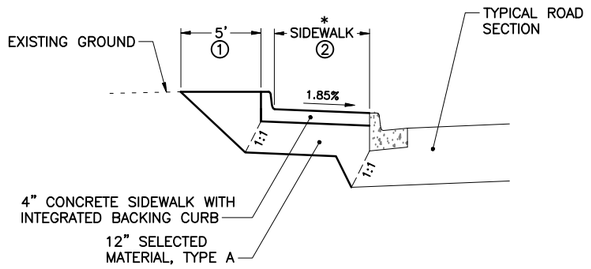
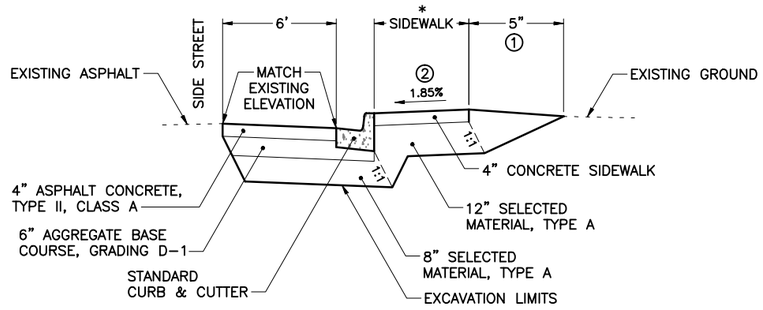
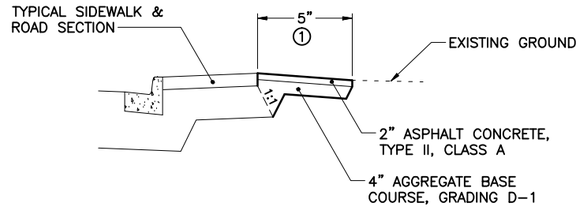


INTEGRATED BACKING CURB

STA 21+25.12 TO 22+60.90 LEFT
STA 22+76.2 TO 23+58.76 RIGHT



SIDEWALK RECONSTRUCTION



ASPHALT AT BACK OF SIDEWALK

SEE BACK OF SIDEWALK MATERIAL TABLE FOR LOCATIONS

BACK OF SIDEWALK MATERIAL ①

LEFT				RIGHT			
BEGIN STA	END STA	AREA (SY)	MATERIAL	BEGIN STA	END STA	AREA (SY)	MATERIAL
BOP	16+62	345	2" ASPHALT	BOP	13+70	102	2" ASPHALT
16+62	18+83	115	TOPSOIL & SEED	13+70	14+00	27	TOPSOIL & SEED
18+83	20+88	119	2" ASPHALT	14+00	14+85	27	2" ASPHALT
20+88	23+00	26	18" WIDE TOPSOIL & SEED STRIP	14+85	16+62	126	TOPSOIL & SEED
		78	WITH 2" ASPHALT BEYOND	16+62	18+83	103	LANDSCAPING GRAVEL ④
23+00	24+07	--	BUILDING	18+33	20+88	--	4" CONCRETE & BUILDING
24+07	25+10	25	LANDSCAPING ③ AND 2" ASPHALT	20+88	21+87	57	TOPSOIL & SEED
25+10	25+73	31	TOPSOIL & SEED	21+87	23+00	--	BUILDING
25+73	25+98	--	BUILDING	23+00	25+10	114	LANDSCAPING ③
25+98	26+63	36	2" ASPHALT	25+10	27+00	152	TOPSOIL & SEED
26+63	27+76	65	TOPSOIL & SEED	27+00	28+23	51	4' D-1
27+76	28+06	2	6" CONCRETE	28+23	29+04	30	TOPSOIL & SEED ⑤
28+06	29+04	48	4" D-1	29+04	30+10	54	4" D-1
29+04	29+56	--	BUILDING	30+10	32+00	120	TOPSOIL & SEED
29+56	30+06	4	2" ASPHALT	32+00	32+32	--	BUILDING
30+06	31+89	--	BUILDING	32+32	32+94	28	2" ASPHALT
31+89	32+94	29	2" ASPHALT	32+94	34+01	--	BUILDING
32+94	35+00	--	BUILDING	34+01	35+00	49	2" ASPHALT
35+00	36+83	--	BUILDING	35+00	36+83	89	TOPSOIL & SEED
36+83	39+00	58	2" ASPHALT	36+83	39+00	114	4" D-1
39+00	EOP	19	LANDSCAPING ③	39+00	EOP	19	LANDSCAPING ③

NOTES:

① SLOPE VARIES. SEE TABLE FOR MATERIAL TYPE. WHEN CONCRETE IS TO BE PLACED AT BACK OF SIDEWALK, CONTINUE SIDEWALK STRUCTURE.

② SEE GRADING PLAN FOR VARIANCE IN SIDEWALK GRADE. ON SIDE STREETS, MATCH EXISTING WIDTH UNLESS OTHERWISE NOTED ON GRADING PLAN.

③ SEE LANDSCAPE PLANS.

④ PROTECT HEDGE.

⑤ SALVAGE AND REPLACE EXISTING.

6. BACK OF SIDEWALK MATERIAL IS PAID FOR UNDER THE RESPECTIVE PAY ITEM.

Friday, December 12, 2014, 12:05 PM

TYPICAL SECTIONS (2 OF 2)

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	C1	– –

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LEGEND EXISTING:

- CONTROL POINT
- RECOVERED PRIMARY MONUMENT
- RECOVERED SECONDARY MONUMENT
- REBAR
- MANHOLE
- HANDHOLE
- WATER VALVE
- METER BOX
- POST
- CLEANOUT
- POWER POLE
- POWER POLE WITH RISER
- STREETLIGHT
- WALK/DON'T WALK LIGHT
- TRAFFIC CONTROL LIGHT
- SIGN
- BOLLARD
- FIRE HYDRANT
- SPOT ELEVATION (× 439.6)
- CATCH BASIN
- CULVERT
- HEADBOLT HEATER
- VENT PIPE
- FUEL TANK FILL PIPE
- GUYLINE WITH ANCHOR
- SHRUB
- HARDWOOD TREE
- CONIFER TREE
- EDGE OF ASPHALT PAVEMENT LINE (EP)
- EDGE OF GRAVEL
- OVERHEAD POWER LINE (OH)
- RIGHT–OF–WAY LINE
- SANITARY SEWER LINE
- TREE LINE
- BUILDING LINE
- MAJOR CONTOUR (450)
- MINOR CONTOUR (451)
- FENCE LINE
- UNDERGROUND WATER LINE
- STORM DRAIN LINE (SD)
- DISTRICT HEAT HOT WATER LINE (DH)
- UNDERGROUND COMM LINE(ACS)
- UNDERGROUND COMM LINE(GCI)
- UNDERGROUND ELECTRIC LINE(STREETLIGHTS) (OPT)
- UNDERGROUND FIBER OPTIC LINE(ALASKA FIBERSTAR) (AKFS)
- GUARDRAIL
- CONCRETE

LEGEND PROPOSED:

- TRAFFIC CONTROL LIGHT
- DETECTABLE WARNING
- CURB & GUTTER
- CUT
- FILL
- WATER (W)
- RETAINING WALL
- EDGE OF ASPHALT
- STORM DRAIN (SD)
- TEMPORARY CONSTRUCTION EASEMENT
- CONCRETE
- SIGN
- MANHOLE
- ROW AQUISITION
- LIGHT POLE
- STORM DRAIN INLET
- DUCT BANK

ABBREVIATIONS

AC	ACRES
APROX	APPROXIMATELY
AVE	AVENUE
BOP	BEGINNING OF PROJECT
℄ , CL	CENTERLINE
COM	COMMUNICATION
CONT.	CONTINUOUS
CY	CUBIC YARDS
DESC	DESCRIPTION
DIA	DIAMETER
DRWY	DRIVEWAY
EA	EACH
EL, ELEV	ELEVATION
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
EW	EACH WAY
EX	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FM	FORCE MAIN
FOC	FACE OF CURB
FT	FEET
GAL	GALLON
GB	GRADE BREAK
IE	INVERT ELEVATION
LBS	POUNDS
LF	LINEAL FEET
LNDG	LANDING
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
M.E.	MATCH EXISTING
MIN	MINIMUM
N	NORTH
N.O.	NUMBER
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
RP	RADIUS POINT
S	SOUTH
SD	STORM DRAIN
SDWK	SIDEWALK
STA	STATION
TBC	TOP BACK OF CURB
TCP	TEMPORARY CONSTRUCTION PERMIT
E	EAST
W	WEST
TYP	TYPICAL
STA	STATION
SS	SANITARY SEWER
SD	STORM DRAIN
OC	ON CENTER
PUE	PUBLIC UTILITY EASEMENT
R	RADIUS
ROW	RIGHT OF WAY
RT	RIGHT
S	SLOPE
SDWK	SIDEWALK
SF	SQUARE FEET
SY	SQUARE YARD
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK
TYP	TYPICAL
UG–P	UNDERGROUND POWER
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENT
W	WATER
W/	WITH
&	AND
ø	DIAMETER
±	PLUS OR MINUS

GENERAL NOTES:

1. GRADES, ALIGNMENTS, APPROACH LOCATIONS, LENGTHS AND LOCATIONS OF STORM DRAINS AND UTILITIES AND INSULATION SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. ALL DISTANCES SHOWN IN THE PLANS ARE HORIZONTAL MEASUREMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN STAGING AREA.
3. RESTORE ALL DISTURBED AREAS DUE TO CONTRACTORS WORK OUTSIDE THE CUT AND FILL LIMITS SHOWN ON THE PLANS.

Friday, December 12, 2014, 12:05 PM

LEGEND, ABREVIATIONS AND NOTES

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	C2	– –

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ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D
202(13)	REMOVE AND REPLACE PLANTER	EACH	1
203(3)	UNCLASSIFED EXCAVATION	CUBIC YARD	10,230
203(6)	BORROW	TON	12,150
301(1)	AGGREGATE BASE COARSE, GRADING D-1	TON	5,650
401(104)	HMA, TYPE II; CLASS A	TON	3,600
401(107)	ASPHALT CEMENT, GRADE PG 52-28	TON	216
401(111)	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CONTINGENT SUM	ALL REQ'D
401(10)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
501(9)	DECORATIVE FINISH	LINEAR FOOT	155
501(10)	SOUTH HALL MANOR WALL	LINEAR FOOT	59
504(3)	MAJOR MYRTLE THOMAS PARK SIGN	LUMP SUM	1
504(4)	MINOR MYRTLE THOMAS PARK SIGN	LUMP SUM	1
504(5)	ORNAMENTAL FENCE	LINEAR FOOT	136
504(6)	PARK FENCE	LINEAR FOOT	208
504(7)	DUMPSTER SCREEN	LUMP SUM	1
514(1)	RETAINING WALL	LINEAR FOOT	190
603(21)-8	8 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	406
603(21)-10	10 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	256
603(21)-12	12 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	1,443
603(21)-18	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	736
603(21)-24	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	1,436
603(21)-36	36 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	380
603(26)	INSULATION FOR STORM DRAIN	LUMP SUM	ALL REQ'D
604(1)-48	STORM SEWER MANHOLE, 48 INCH	EACH	16
604(1)-72	STORM SEWER MANHOLE, 72 INCH	EACH	3
604(4)	ADJUST EXISTING MANHOLE	EACH	13
604(5)-A	INLET, TYPE A	EACH	63
607(4)	RECONSTRUCTED FENCE	LINEAR FOOT	60
608(1A)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	3,525
608(1B)	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	1,620
608(6)	CURB RAMP	EACH	50
609(1)	CURB, TYPE 4	LINEAR FOOT	136
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	6,920
615(1)	STANDARD SIGN	SQUARE FOOT	476
618(4)	SEEDING	SQUARE YARD	1,800
620(1)	TOPSOIL	SQUARE YARD	1,800
621(1A)	TREE, BIRCH(BETULA PAPYRIFERA), 3" CAL.	EACH	48
621(1B)	TREE, WHITE SPRUCE(PICEA GLAUCA), 24" TALL	EACH	17
621(2A)	COTONEASTER (COTONEASTER ACUTIFOLIA), 36" TALL	EACH	32
621(5)	PLANT PIT CELLS	SQUARE YARD	172
622(15)	PLANTER	EACH	17
622(16)	BENCH	EACH	5
622(17)	KIOSK	EACH	1
622(18)	TREE GRATE	EACH	25
626(2)	SEWER SERVICE CONNECTION	EACH	5
627(1)-6	6 INCH DUCTILE IRON WATER CONDUIT, CLASS 350	LINEAR FOOT	42
627(1)-10	10 INCH DUCTILE IRON WATER CONDUIT, CLASS 350	LINEAR FOOT	11
627(1)-16	16 INCH DUCTILE IRON WATER CONDUIT, CLASS 350	LINEAR FOOT	20
627(5)	FIRE HYDRANT INSTALLATION	EACH	2
627(10)	ADJUSTMENT OF VALVE BOX	EACH	39
639(3)	DRIVEWAYS	EACH	26
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641(3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQ'D
641(4)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQ'D
641(6)	WITHHOLDINGS	CONTINGENT SUM	ALL REQ'D
641(7)	SWPPP MANAGER	LUMP SUM	ALL REQ'D
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
642(3)	THREE PERSON SURVEY PARTY	HOUR	170
642(6)	REPLACE EXISTING WITH PRIMARY MONUMENT	EACH	16
642(7)	REPLACE EXISTING WITH SECONDARY MONUMENT	EACH	15
642(10)	MONUMENT CASE	EACH	16
643(2)	TRAFFIC MANTENANCE	LUMP SUM	ALL REQ'D
643(17)	PUBLIC INFORMATION	LUMP SUM	ALL REQ'D
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D
644(1)	FIELD OFFICE	LUMP SUM	ALL REQ'D
645(1)	TRAINING PROGRAM, 2 TRAINEES/APPRENTICES	HOUR	1,000
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQ'D
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQ'D
660(7A)	TEMPORARY SIGNAL SYSTEM COMPLETE, 10TH AND NOBLE	LUMP SUM	ALL REQ'D
660(7B)	TEMPORARY SIGNAL SYSTEM COMPLETE, 3RD AND NOBLE	LUMP SUM	ALL REQ'D
660(7C)	TEMPORARY SIGNAL SYSTEM COMPLETE, 2ND AND NOBLE	LUMP SUM	ALL REQ'D
660(7D)	TEMPORARY SIGNAL SYSTEM COMPLETE, 1ST AND NOBLE	LUMP SUM	ALL REQ'D
660(10A)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, 10TH AND NOBLE	LUMP SUM	ALL REQ'D
660(10B)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, 3RD AND NOBLE	LUMP SUM	ALL REQ'D
660(10C)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, 2ND AND NOBLE	LUMP SUM	ALL REQ'D
660(10D)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, 1ST AND NOBLE	LUMP SUM	ALL REQ'D
661(2)	LOAD CENTER TYPE 1A	EACH	5
661(6)	TRANSFORMER, 5KVA 240-480V STEP UP	EACH	1
662(3)	SIGNAL INTERCONNECT SYSTEM COMPLETE – FIBER	LUMP SUM	ALL REQ'D
663(1)-A	UTILITY RELOCATION, ACS	LUMP SUM	ALL REQ'D
663(1)-B	UTILITY RELOCATION, GCI	LUMP SUM	ALL REQ'D
663(2)	GVEA UNDERGROUND SERVICE CONNECTIONS	LUMP SUM	ALL REQ'D
663(6)	TELECOMMUNICATIONS VAULT, DUCT BANK AND CONDUIT SYSTEM	LUMP SUM	ALL REQ'D
670(10)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQ'D
670(11)	METHYL METHACRYLATE TRANSVERSE PAVEMENT MARKING LINES	SQUARE FOOT	2920
670(12)	METHYL METHACRYLATE TRANSVERSE MARKINGS, WORDS, SYMBOLS	EACH	170
802(1)	CONTAMINATED SOIL SAMPLING AND SCREENING	EACH	422
802(2)	CONTAMINATED SOIL REMOVAL AND DISPOSAL-KNOWN CONTAMINATE SITES	CONTINGENT SUM	ALL REQ'D
802(3)	CONTAMINATED SOIL REMOVAL AND DISPOSAL-ADDITIONAL SITES	CONTINGENT SUM	ALL REQ'D
803(1)	GROUNDWATER MONITORING WELL DECOMMISSIONING	CONTINGENT SUM	ALL REQ'D
803(2)	GROUNDWATER MONITORING WELL INSTALLATION	EACH	1

ESTIMATING FACTORS

ITEM NUMBER	ITEM	FACTOR
203(6)	BORROW, TYPE A	1.96 TONS / CUBIC YARDS
301(1)	AGGREGATE BASE COARSE, GRADING D-1	1.96 TONS / CUBIC YARDS
401(1)	ASPHALT CONCRETE, TYPE II, CLASS A	113 LBS / SQUARE YARD / INCH
401(2)	ASPHALT CEMENT, GRADE PG 52-28	0.06 OF 404(1) QUANITITY
402(1)	STE-1 ASPHALT FOR TACK COAT	0.0003 TONS / SQUARE YARD

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS

BEGIN	OFFSET	END	OFFSET	QUANTITY	REMARKS
13+67	43.9 RT	13+99	44.3 RT	66.9 FT	RETAINING WALL
14+84	53.0 RT	16+36	129.9 RT	253.5 FT	CHAIN LINK FENCE
16+05	28 RT	16+05	28 RT	1	BIRCH TREE
18+14	31.1 LT	18+54	80.6 LT	103.4 FT	RETAINING WALL
30+15	20.8 LT	30+73	21.4 LT	58 FT	RETAINING WALL
30+60	28.0 RT	30+60	28.0 RT	4	REMOVE 4 BIRCH TREES; LEAVE 1 BIRCH TREE
31+80	29 RT	31+80	29 RT	3	REMOVE 3 BIRCH TREES
35+20	46 RT	35+20	46 RT	2	REMOVE 2 SPRUCE TREES; LEAVE 1 SPRUCE TREE

QUANTITIES

STATE OF ALASKA 49TH
MATTHEW TODD STONE
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REGISTERED PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	C3	– –

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608(1A) CONCRETE SIDEWALK, 4 INCHES THICK

BEGIN	END	OFFSET	QUANTITY (S.Y.)	REMARKS
10+24.5	16+40.2	RT	326.0	
10+32.8	16+40.9	LT	360.0	
16+78.2	20+66.5	RT	235.9	
16+81.4	18+68.8	LT	134.3	
19+01.3	20+67.8	LT	113.4	
21+06.7	24+95.8	RT	180.9	
21+08.3	22+75	LT	92.9	
23+14.3	24+89.2	LT	148.6	
25+25.4	26+83.7	RT	95.5	
25+26.2	26+86.2	LT	108.1	
27+16.7	28+85.9	RT	128.9	
27+21.8	28+91.5	LT	142.4	
29+12.7	30+85.2	RT	102.2	
29+13.9	30+77.8	LT	78.6	
31+15.2	32+79.3	RT	127.7	
31+18.0	32+80.1	LT	128.7	
33+03.8	34+83.0	LT	153.9	
33+15.4	34+77.4	RT	167.9	
35+15.0	36+59.8	RT	78.3	
35+17.2	36+74.2	LT	310.7	
36+95.8	38+73.8	RT	126.2	
37+04.8	38+77.7	LT	123.1	
39+17.3	39+50.6	RT	11.9	
39+21.9	39+50.5	LT	32.7	

608(6) CURB RAMP

STATION	OFFSET	QUANTITY	REMARKS
10+38.87	27.18 LT	1	
10+39.04	19 RT	1	
16+29.97	23.08 RT	1	
16+35.92	22.83 LT	1	
16+80.08	20.73 RT	1	
16+83.11	20.77 LT	1	
18+58.31	19 RT	1	
18+61.44	21.08 LT	1	
19+02.88	19 RT	1	
19+03.40	20.7 LT	1	
20+60.68	24.88 RT	1	
20+66.09	20.77 LT	1	
21+10.05	20.74 LT	1	
21+12.62	24.76 RT	1	
22+73.05	19 RT	1	
22+73.96	20.90 LT	1	
23+16.87	20.67 LT	1	
23+19.13	19 RT	1	
24+87.77	20.82 LT	1	
24+93.41	20.63 RT	1	
25+27.17	20.75 RT	1	
25+28.25	20.70 LT	1	
26+82.25	20.81 RT	1	
26+84.49	20.76 LT	1	
27+18.66	20.72 RT	1	
27+23.6	20.76 LT	1	
28+78.91	21.27 RT	1	
28+90.02	20.82 LT	1	
29+14.55	22.69 RT	1	
29+17.04	19.85 LT	1	
30+75.6	18.74 LT	1	
30+75.92	22.04 RT	1	
31+17.37	20.68 RT	1	
31+19.70	20.80 LT	1	
32+77.73	20.79 RT	1	
32+78.55	20.79 LT	1	
33+11.36	23.50 LT	1	
33+17.28	20.73 RT	1	
34+74.11	31.67 RT	1	
34+81.27	20.76 LT	1	
35+18.08	20.57 RT	1	
35+24.42	29.47 LT	1	
36+59.07	27.97 RT	1	
36+65.95	27.66 LT	1	
37+03.42	26.06 RT	1	
37+08.63	23.50 LT	1	
38+72.05	20.77 RT	1	
38+73.24	23.38 LT	1	
39+19.26	19.88 RT	1	
39+31.4	34.21 LT	1	

SHEET NOTES:

1. STATION AND OFFSET PROVIDED FOR INFORMATION PURPOSES ONLY.
2. 608(1A) CONCRETE SIDEWALK 4 INCHES THICK EXCLUDES CURB RAMPS AND DRIVEWAY CURB CUTS.

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SCHEDULES

STATE OF ALASKA 49TH
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ALASKA	STP-000S(413)/61725	2015	C4	– –

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609(2) CURB AND GUTTER, TYPE 1

BEGIN	OFFSET	END	OFFSET	QUANTITY (LF)	REMARKS
10+24.02	37.05 RT	16+41.78	114.04 RT	711.89	
10+75.08	154.81 LT	16+41.51	114.27 LT	834.03	
16+77.41	57.89 RT	20+66.94	61.97 RT	460.50	
16+80.99	54.18 LT	18+60.33	80.60 LT	278.70	
18+99.84	72.10 LT	20+68.22	46.55 LT	243.30	
21+05.95	62.09 RT	24+99.54	86.7 RT	489.90	
21+07.7	46.48 LT	22+74.89	43.63 LT	215.90	
23+13.76	43.66 LT	24+89.44	42.73 LT	219.30	
25+24.87	41.69 RT	26+82.67	43.48 RT	202.30	
25+25.38	43.78 LT	26+86.74	70.68 LT	187.98	
27+16.08	43.40 RT	28+77.61	105.19 RT	274.00	
27+21.34	44.57 LT	28+88.95	139.79 LT	312.70	
29+12.13	48.95 RT	30+76.57	75.34 RT	249.37	
29+20.65	63.62 LT	30+78.60	46.14 LT	235.40	
31+13.07	75.34 RT	32+79.12	48.45 RT	246.10	
31+17.66	34.71 LT	32+80.55	39.09 LT	194.5	
33+12.3	64.58 LT	34+83.52	59.15 LT	261.23	
33+14.73	48.45 RT	34+76.51	59.20 RT	219.80	
35+12.73	57.27 RT	36+59.71	55.06 RT	211.25	
35+16.69	58.94 LT	36+75.67	73.23 LT	227.64	
36+94.97	56.16 RT	38+74.29	45.83 RT	230.20	
37+12.50	73.23 LT	38+78.28	76.87	275.9	
39+16.71	36.48 RT	39+34.33	17.69 RT	33.4	
39+21.19	68.03 LT	39+50.48	28.44 LT	57.90	

626(2) SEWER SERVICE CONNECTION

STATION	OFFSET (FT)	REMARKS
21+55.95	2.87 RT	
22+23.14	2.9 RT	
25+94.41	3.5 RT	
28+45.96	3.8 RT	
31+33.25	5.3 RT	

SEWER SERVICE DEPTHS ARE UNKNOWN. TABLE SHOWS LIKELY CONFLICTS. FIELD VERIFY AND RECONSTRUCT PER ENGINEERS DIRECTION.

627(10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET (FT)	REMARKS
13+93	21.5 RT	
16+80	37.5 RT	
20+62	49 RT	
22+68	12 RT	
25+15	10.5 RT	
27+10	12 RT	
27+17	60.5 LT	
27+18	12 LT	
29+05	14.5 RT	
29+15	37 RT	
30+72	47 RT	
30+80	46 RT	
31+16	55 RT	
33+10	16.5 RT	
33+18	44.5 LT	
34+86	16 RT	
36+58	19 RT	
36+59	56 RT	
39+45	10 LT	

642(6) REPLACE EXISTING WITH PRIMARY MONUMENT

STATION	OFFSET (FT)	DESCRIPTION
13+24.5	0	FOUND BRASS CAP IN CASE
16+60.5	0	FOUND BRASS CAP IN CASE
18+81.5	0	FOUND BRASS CAP IN CASE
20+87.5	0	FOUND BRASS CAP IN CASE
20+94	0	FOUND BRASS CAP IN CASE
22+96.5	0	FOUND BRASS CAP IN CASE
25+08.5	0	FOUND BRASS CAP IN CASE
27+01	0	FOUND BRASS CAP IN CASE
28+95.5	0	FOUND BRASS CAP IN CASE
29+06.5	0	FOUND BRASS CAP IN CASE
30+97.5	0	FOUND BRASS CAP IN CASE
32+97	0	FOUND BRASS CAP IN CASE
34+99	0	FOUND BRASS CAP IN CASE
36+79	0	FOUND BRASS CAP IN CASE
36+93.5	0	FOUND BRASS CAP IN CASE
38+99	0	FOUND BRASS CAP IN CASE

642(7) REPLACE EXISTING WITH SECONDARY MONUMENT

STATION	OFFSET (FT)	DESCRIPTION
10+75	144.5 LT	1.5" ALUMINUM CAP
11+80	25 RT	1.5" ALUMINUM CAP
12+21	25 LT	REBAR
12+28	28.5 LT	1.5" ALUMINUM CAP
12+30	25 RT	1.5" ALUMINUM CAP
13+52	25 RT	REBAR
14+62.5	25 RT	REBAR
14+70.5	25 LT	1" IRON PIPE
16+35.5	25 LT	1.5" ALUMINUM CAP
16+35.5	25 RT	1.5" ALUMINUM CAP
17+45.5	25 LT	#4 REBAR
21+11.5	43 RT	#5 REBAR
21+29.5	25 RT	1.5" ALUMINUM CAP
31+21.5	25 RT	1" IRON PIPE
31+91.5	25 RT	1.5" ALUMINUM CAP
34+70	75.5 RT	1.5" ALUMINUM CAP

NOTE:

1. ALL PRIMARY MONUMENTS TO BE INSTALLED INSIDE A MONUMENT CASING.

SHEET NOTES:

1. STATION AND OFFSET PROVIDED FOR INFORMATION PURPOSES ONLY.

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STATE OF ALASKA
49 TH
MATTHEW TODD STONE
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SCHEDULES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	E1	– –

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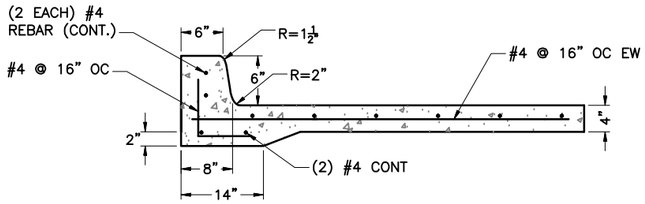
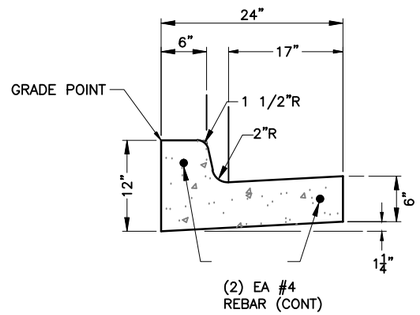


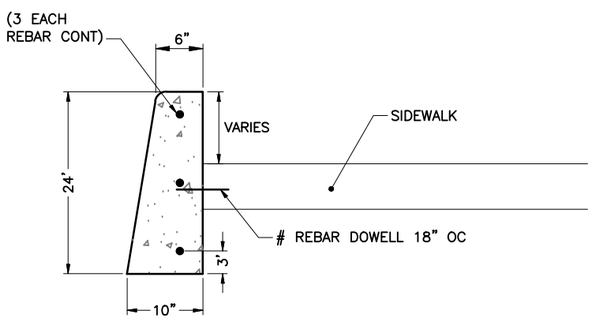
SIDEWALK WITH INTEGRATED BACKING CURB

NTS



STANDARD CURB & GUTTER

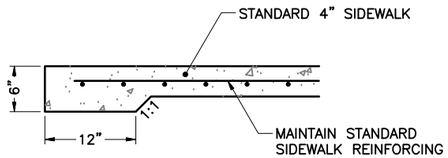
NTS



SPECIAL BACKING CURB

NTS

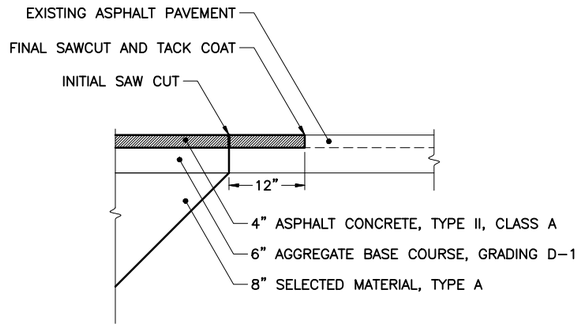
FOR USE AT SPECIAL CURB RAMPS



THICKENED EDGE SIDEWALK

NTS

SEE LANDSCAPING FOR LOCATIONS



ASPHALT SAWCUT AND PATCH

NTS

SHEET NOTES:

1. REFERENCE CITY OF FAIRBANKS, ALASKA STANDARD CONCRETE DETAILS AS MODIFIED FOR NOBLE STREET RECONSTRUCTION FOR FURTHER CONCRETE NOTES.
2. FOR SIDEWALK REINFORCEMENT, POSITION STEEL 1½" UP FROM BOTTOM OF SIDEWALK.
3. CONCRETE SHALL RECEIVE A MEDIUM BROOMED FINISH RUNNING PERPENDICULAR TO THE CURB ON RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO THE DIRECTION OF TRAVEL ON LOWER LANDINGS.
4. SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION OF PAVEMENT, SIDEWALK OR CURBING ABUTS EXISTING. SAWCUTS SUBSIDIARY TO 201(1).
5. INTEGRATED BACKING CURB IS SUBSIDIARY TO 608(1A).

CONCRETE DETAILS

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	F1	– –

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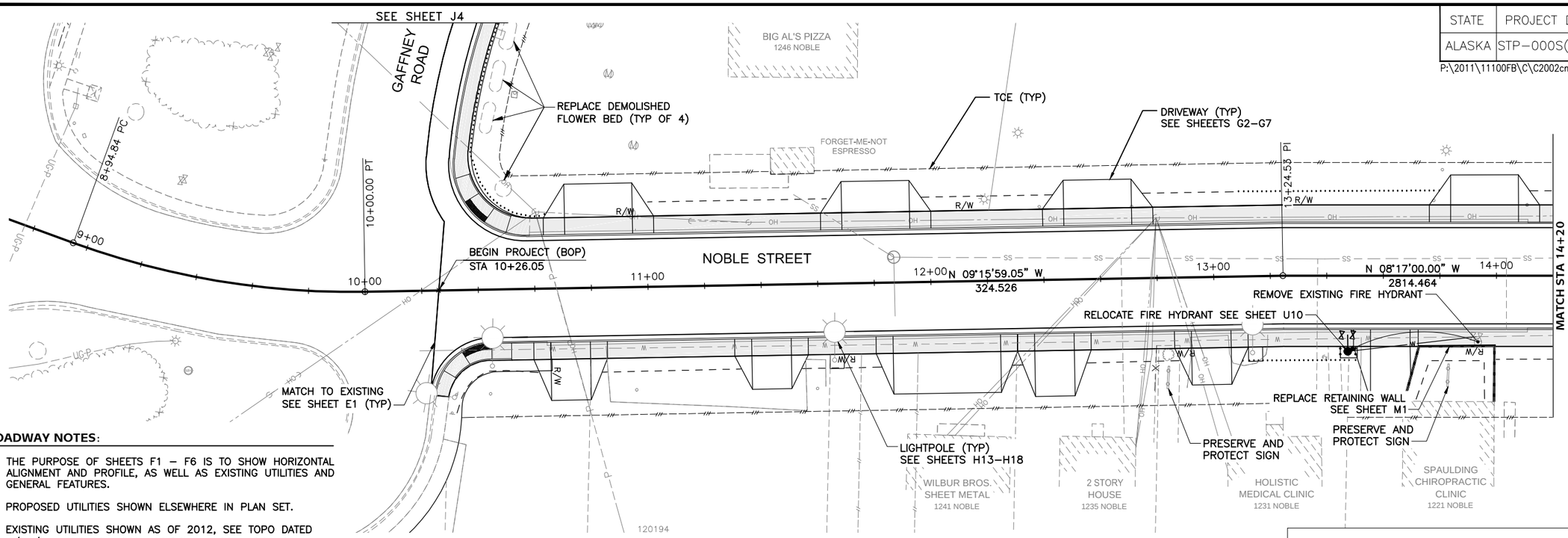

ROADWAY NOTES:

1. THE PURPOSE OF SHEETS F1 – F6 IS TO SHOW HORIZONTAL ALIGNMENT AND PROFILE, AS WELL AS EXISTING UTILITIES AND GENERAL FEATURES.
2. PROPOSED UTILITIES SHOWN ELSEWHERE IN PLAN SET.
3. EXISTING UTILITIES SHOWN AS OF 2012, SEE TOPO DATED X/XX/XX UPGRADES, FOR ADDITIONAL INFORMATION ON EXISTING UTILITIES AND FEATURES.
4. REMOVAL OF STORM DRAIN IS SUBSIDIARY TO 603 ITEMS.

ROADWAY 10+58 - 14+20

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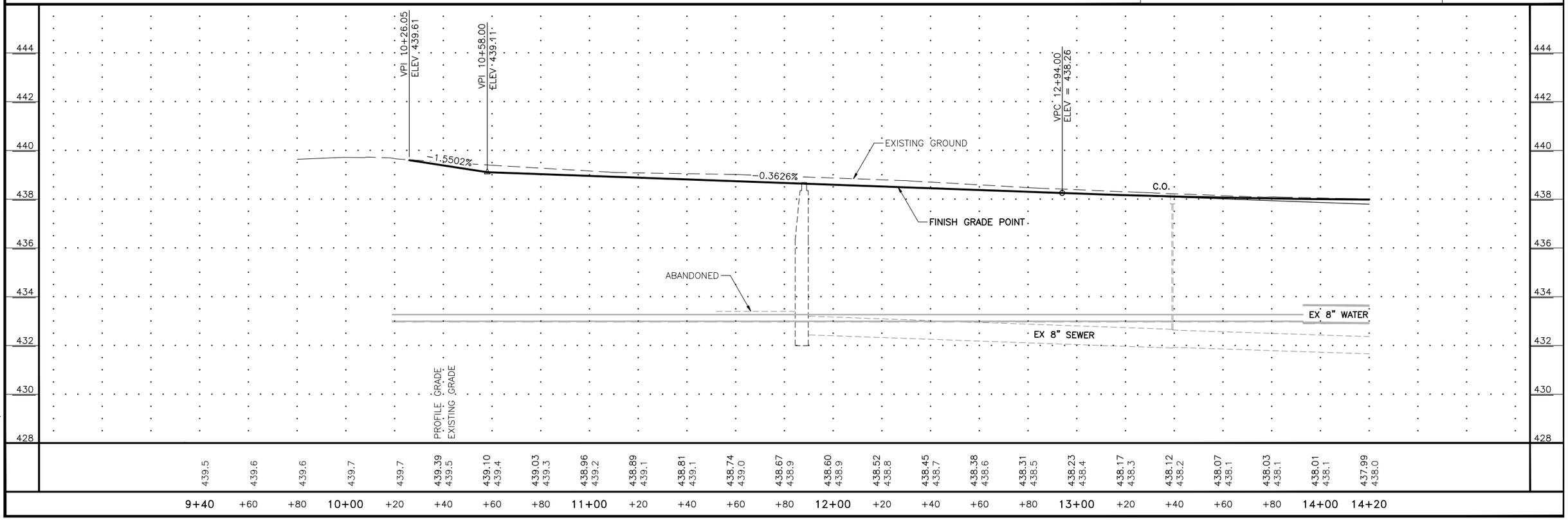

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	F2	– –

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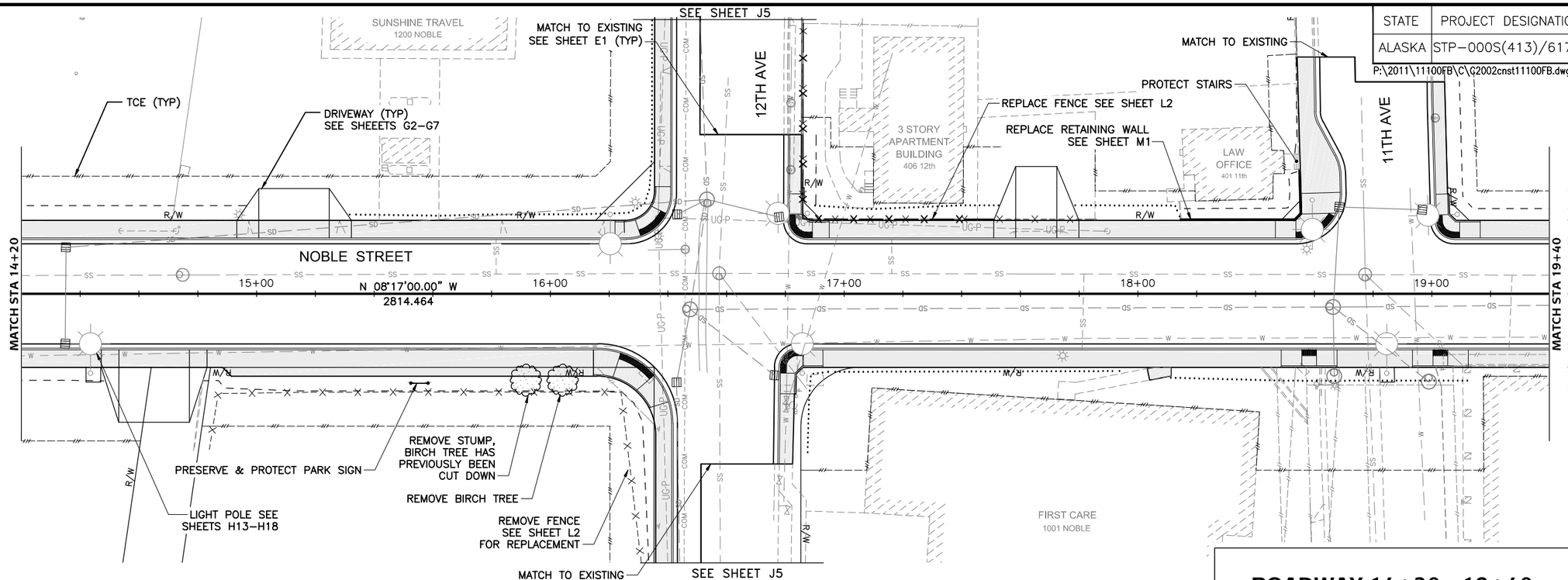

ROADWAY 14+20 - 19+40

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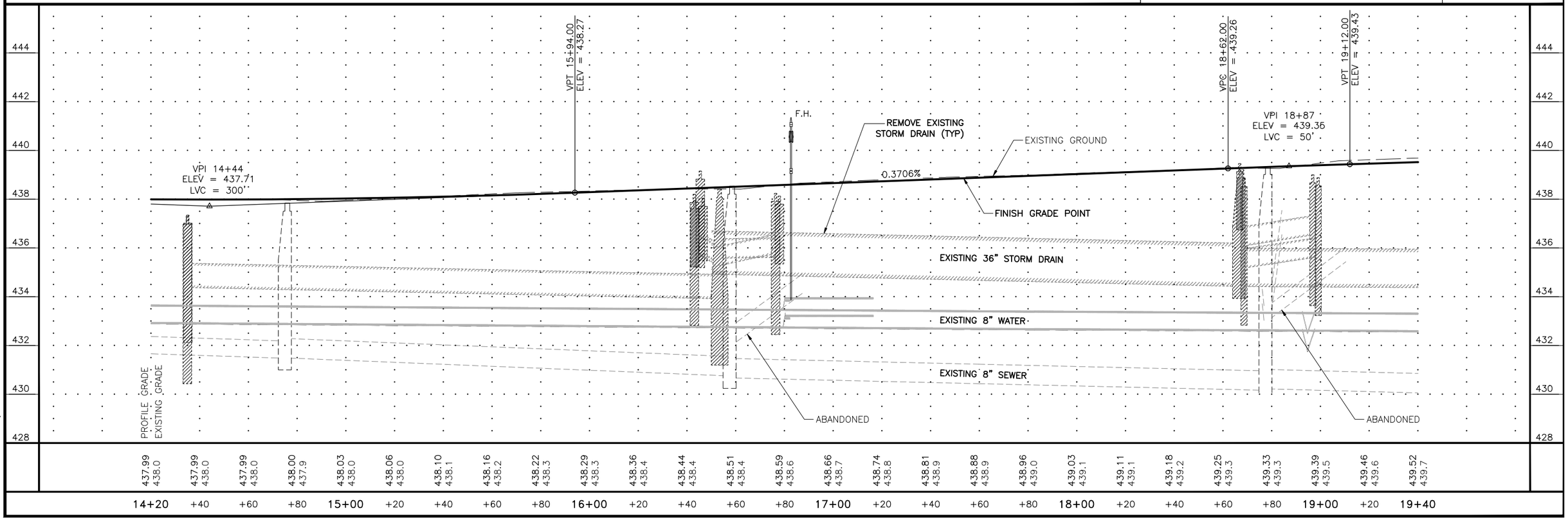

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ALASKA	STP-000S(413)/61725	2015	F3	– –

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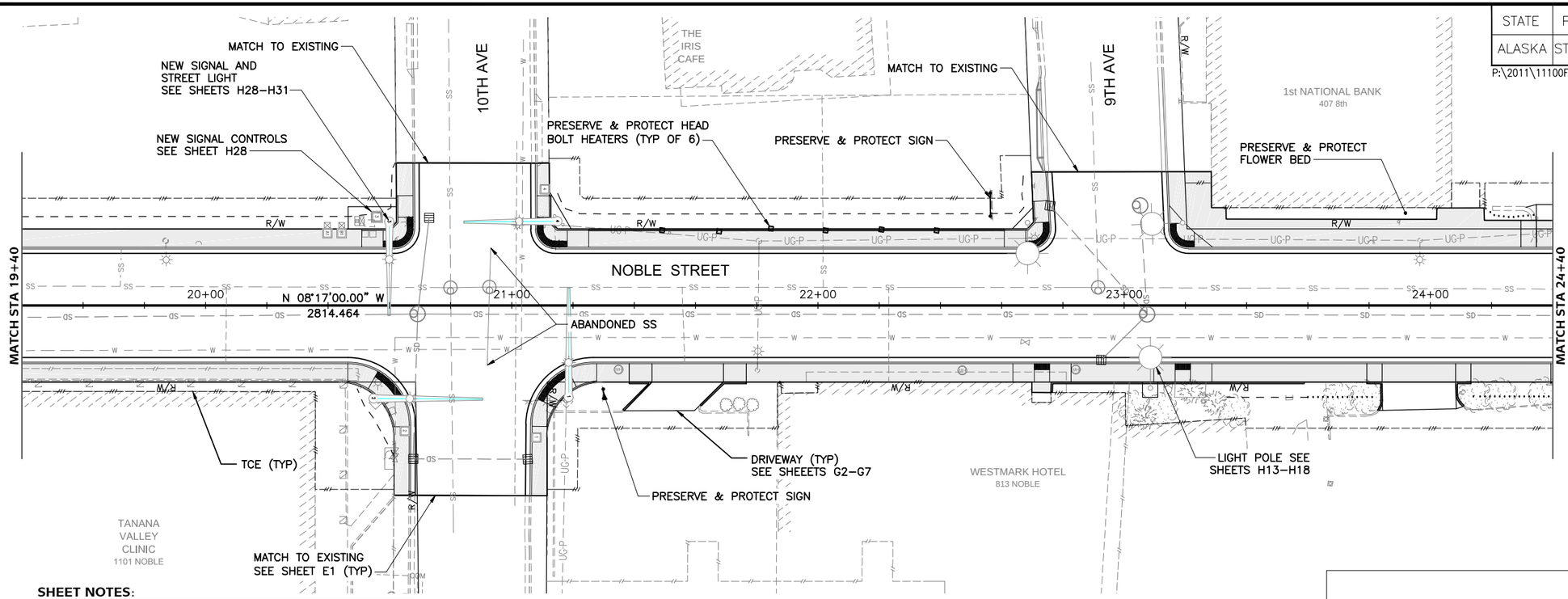

SHEET NOTES:

1. SEE SHEETS H28 TO H31 FOR SIGNAL POLE MOUNTED ILLUMINATION.

ROADWAY 19+40 - 24+40

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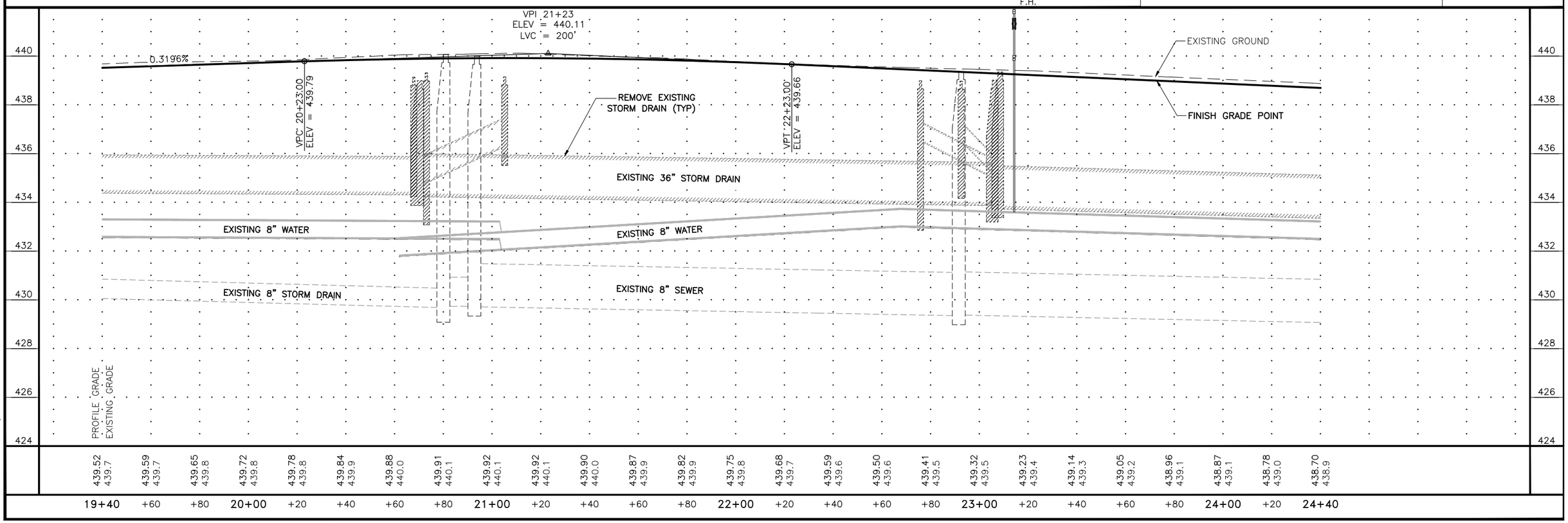

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	F4	– –

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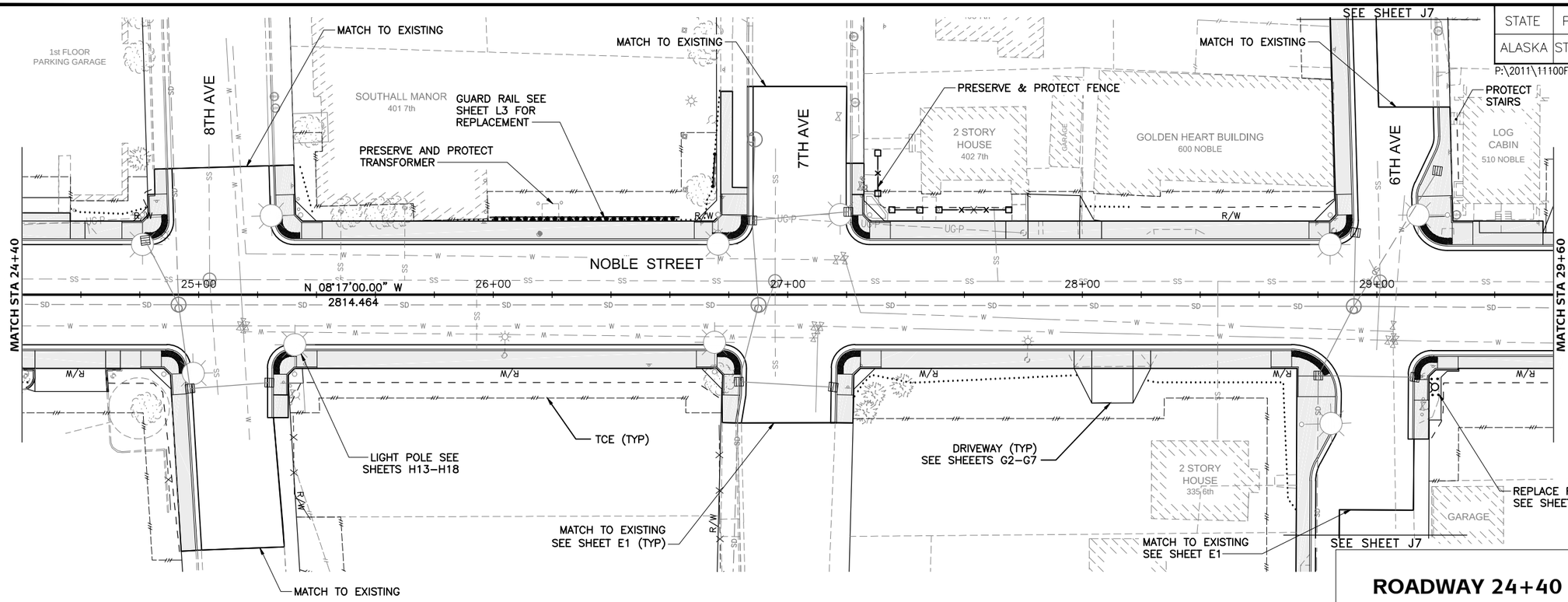
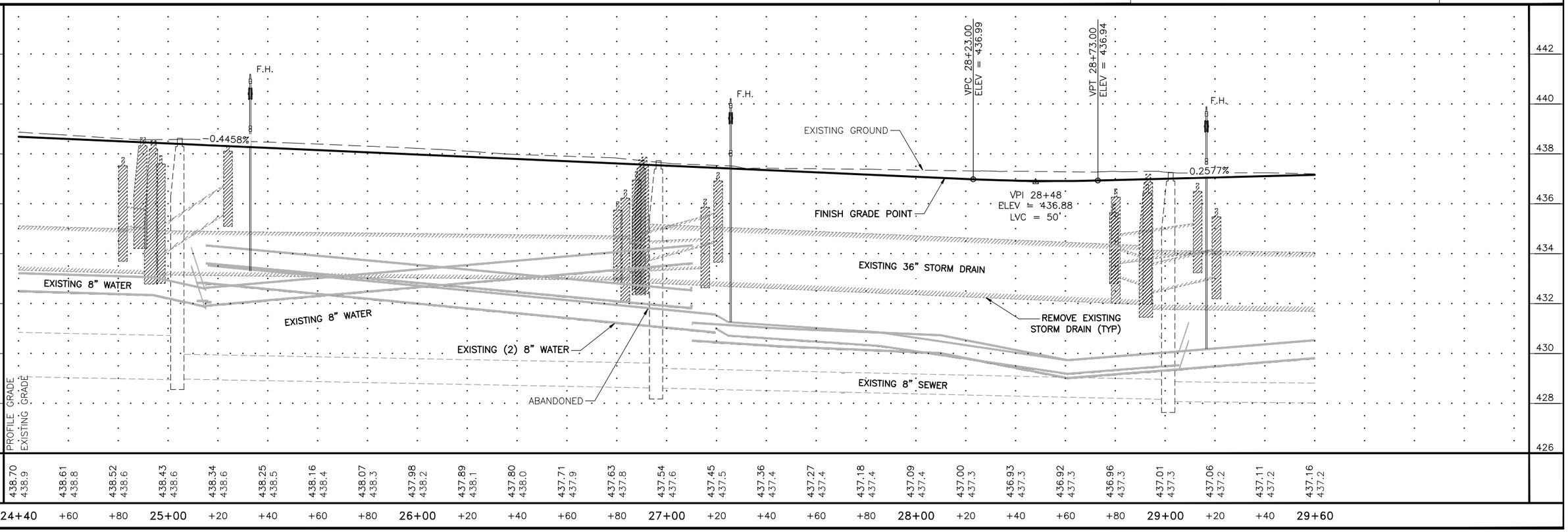


ROADWAY 24+40 - 29+60



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	F5	– –

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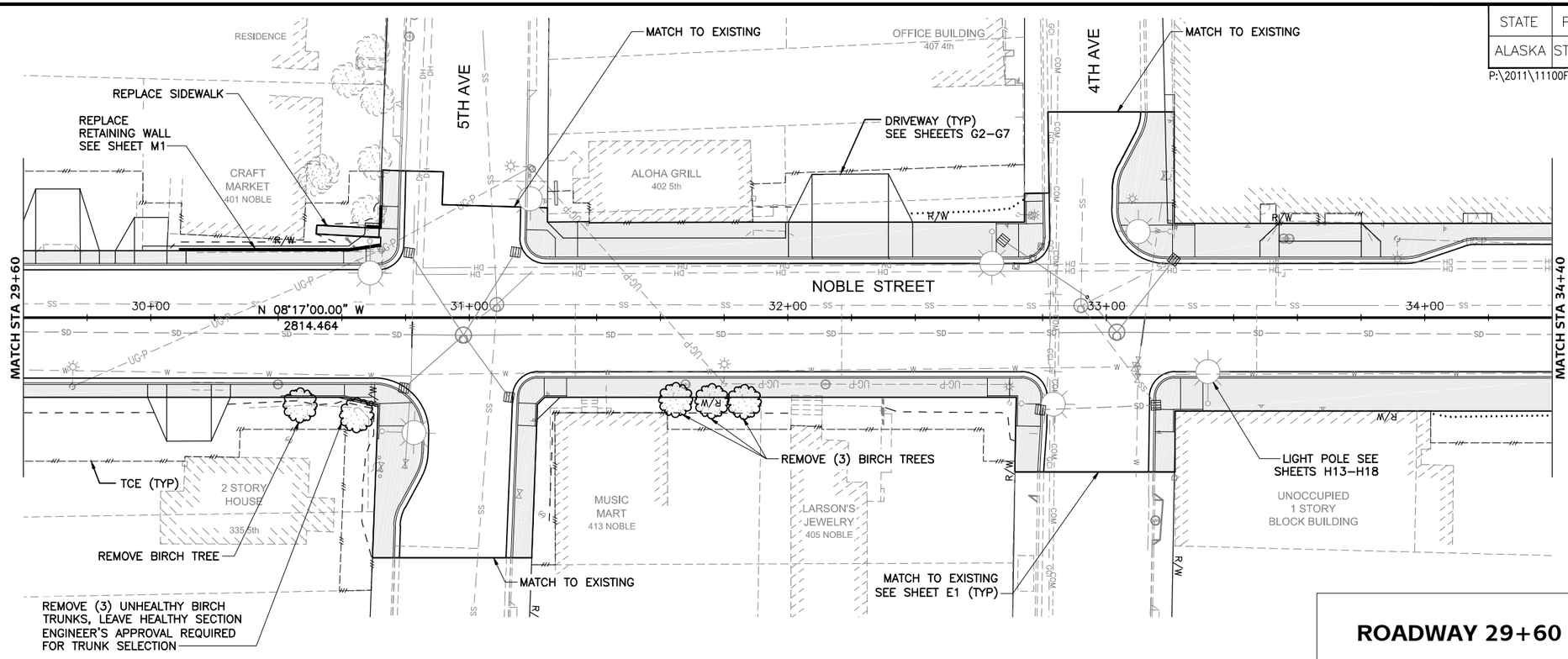
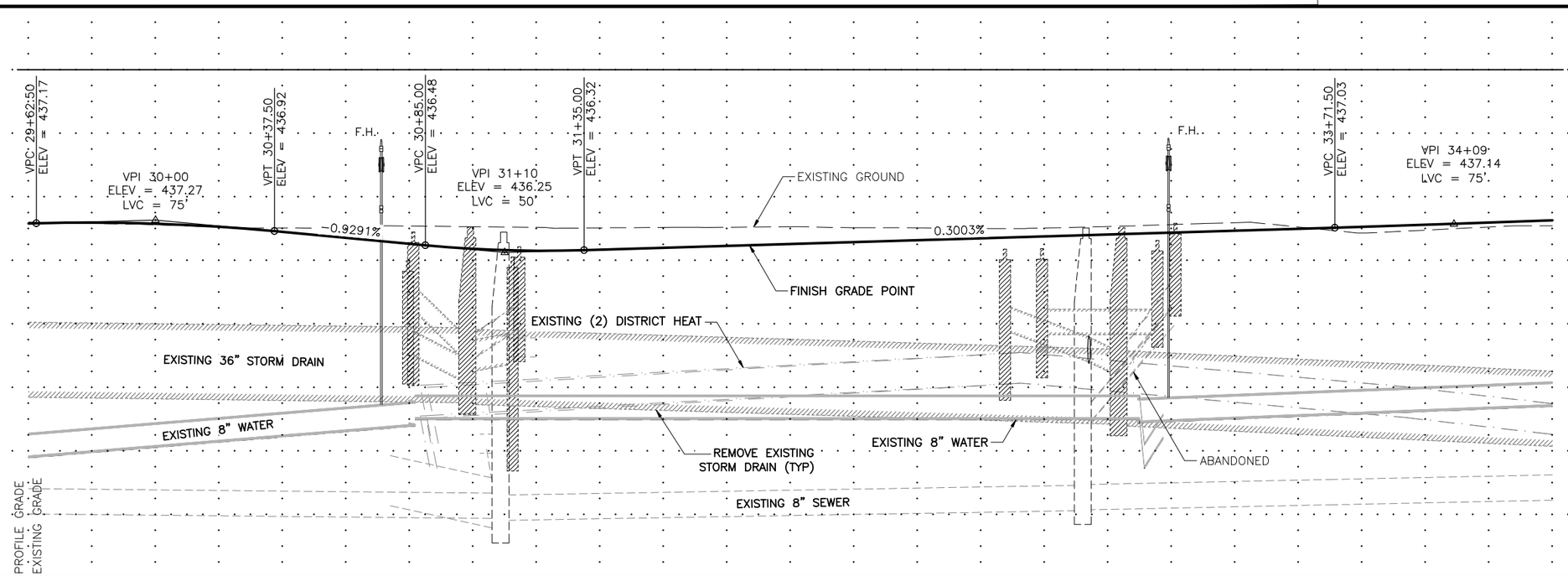


ROADWAY 29+60 - 34+40



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	F6	– –

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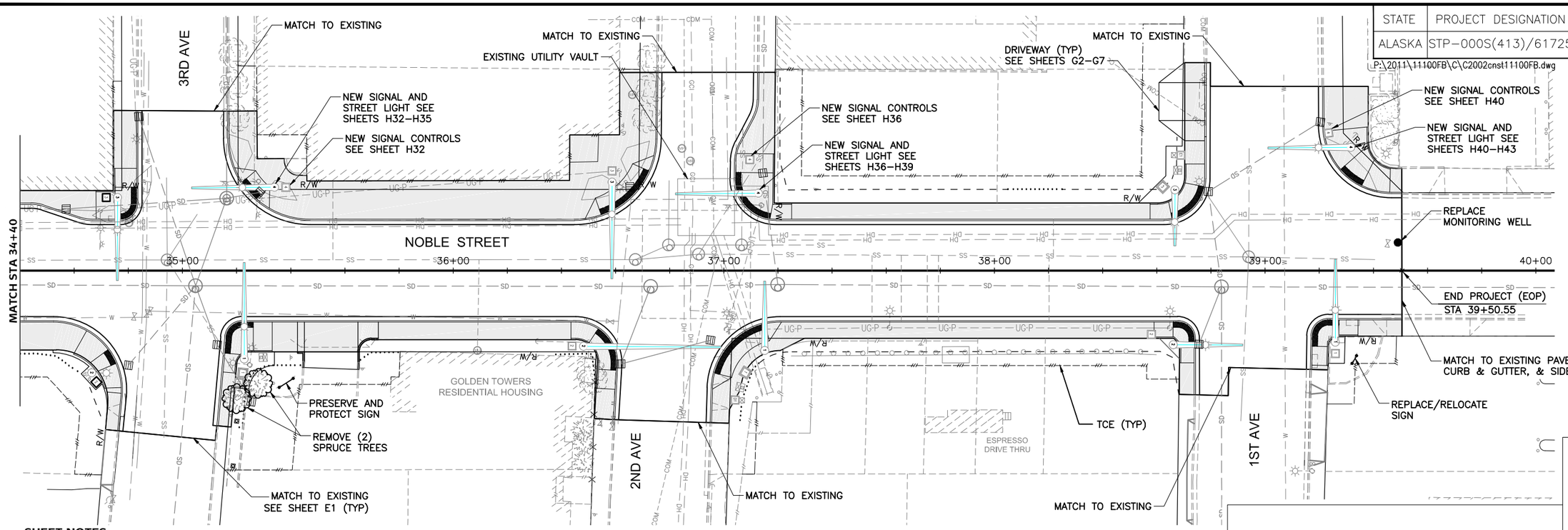

SHEET NOTES:

1. SEE SHEETS H32 TO H43 FOR SIGNAL POLE MOUNTED ILLUMINATION.

ROADWAY 34+40 - 39+50

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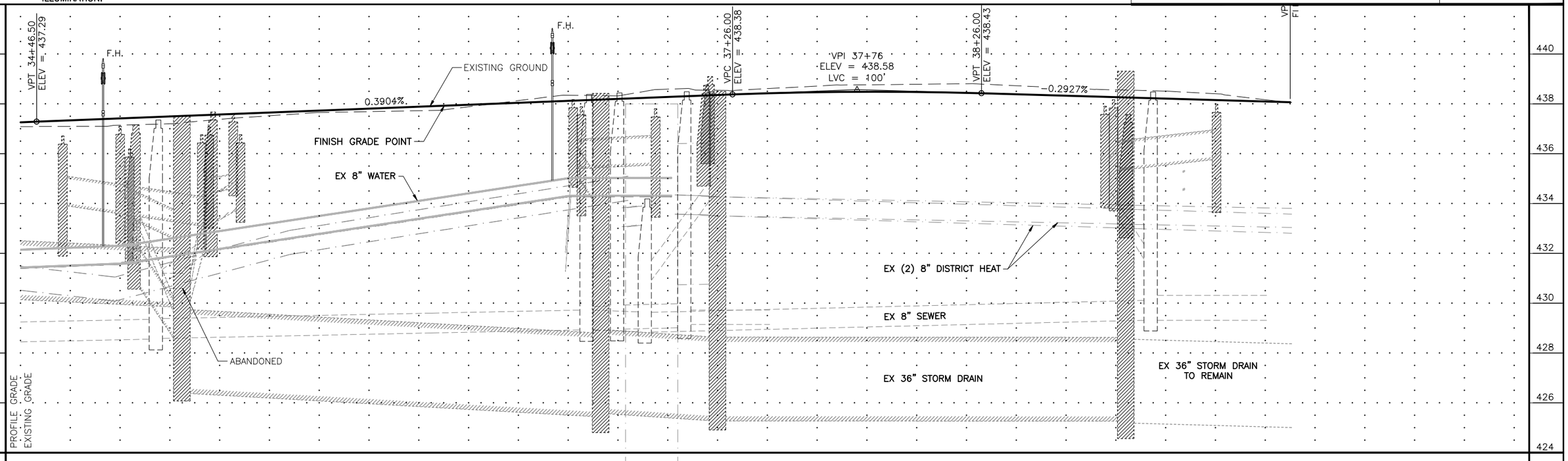

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G1	– –

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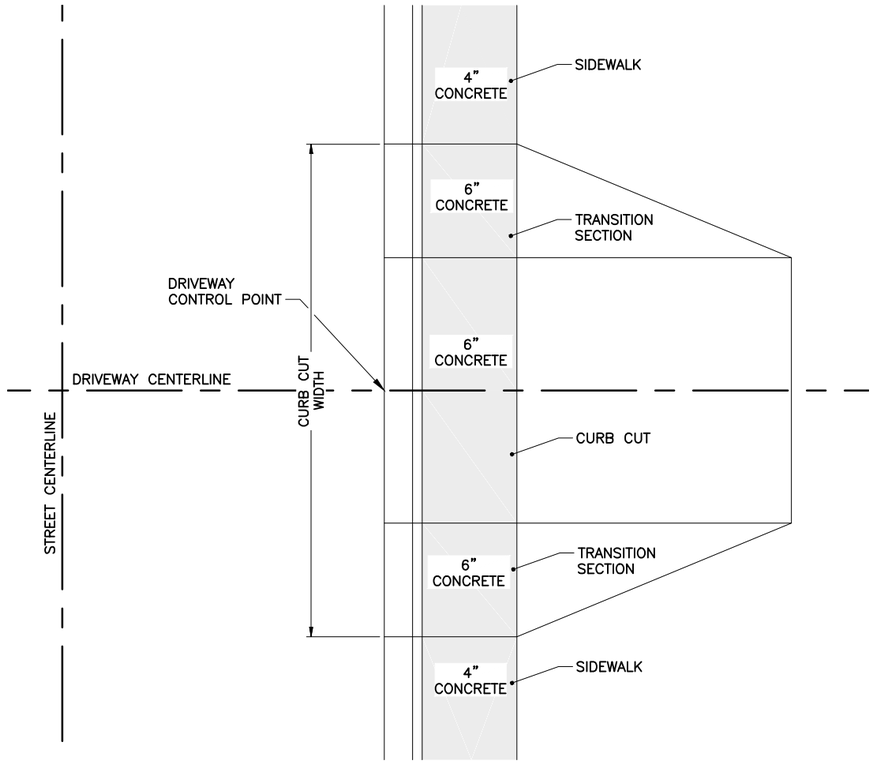
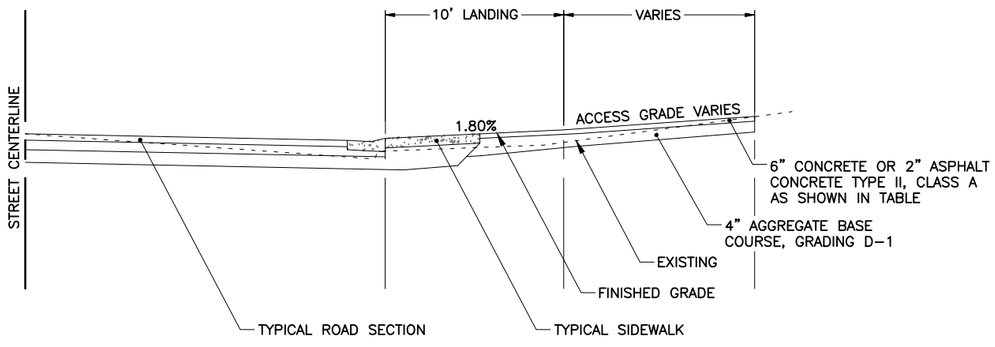


DRIVEWAY DETAIL

NTS



DRIVEWAY SECTION

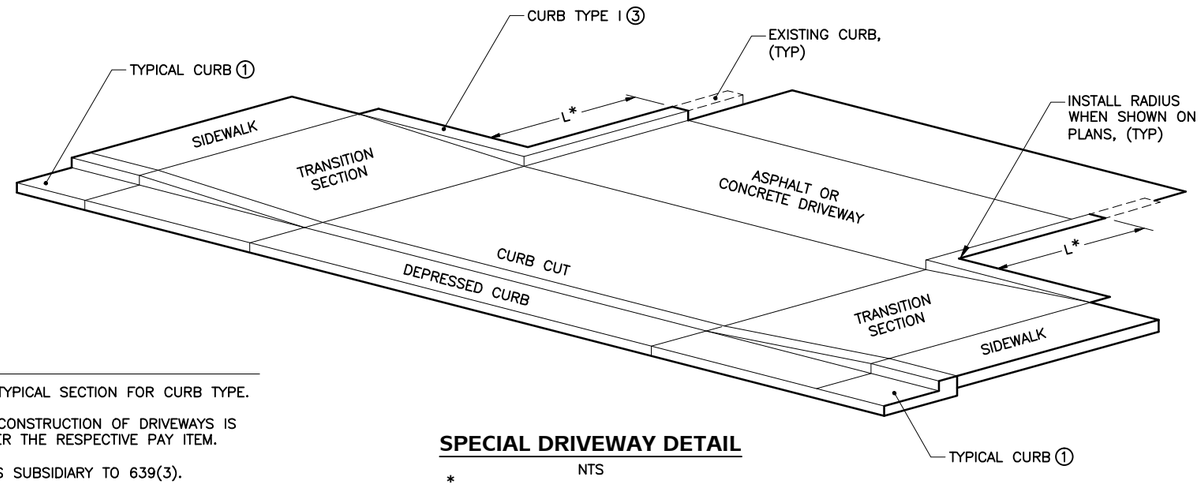
NTS

NOTES:

① SEE ROADWAY TYPICAL SECTION FOR CURB TYPE.

② MATERIAL FOR CONSTRUCTION OF DRIVEWAYS IS PAID FOR UNDER THE RESPECTIVE PAY ITEM.

③ CURB TYPE I IS SUBSIDIARY TO 639(3).



SPECIAL DRIVEWAY DETAIL

NTS

*		
DRWY	21+57.48	L = 13 FT
DRWY	23+96.27	L = 9 FT
DRWY	24+56.39	L = 7.75 FT
DRWY	35+54.93	L = 5.25 FT

639(1) DRIVEWAY SUMMARY②

DRIVEWAY	OFFSET	CURB CUT WIDTH (FT)	DRIVEWAY SUFACING	AREA (SY)	REMARKS
DRWY D 10+72.3	RT	26.0	ASPHALT	32.0	USED CAR LOT
DRWY D 10+82.9	LT	39.0	ASPHALT	41.0	FORGET ME NOT ESPRESSO
DRWY D 11+43.4	RT	26.0	ASPHALT	26.0	USED CAR LOT
DRWY D 11+80.9	LT	39.0	ASPHALT	27.0	FORGET ME NOT ESPRESSO
DRWY D 12+05.3	RT	50.0	ASPHALT	70.0	WILBUR BROTHERS SHEET METAL
DRWY D 12+43.3	RT	26.0	ASPHALT	36.0	PRIVATE RESIDENCE; 1235 NOBLE STREET
DRWY D 12+59.4	LT	39.0	ASPHALT	35.0	PARKING LOT
DRWY D 12+98.9	RT	26.0	ASPHALT	29.0	PRIVATE RESIDENCE; 1231 NOBLE STREET
DRWY D 13+62.5	RT	22.9	ASPHALT	36.0	SPAULDING CHIROPRACTIC CLINIC
DRWY D 13+95.8	LT	39.0	ASPHALT	37.0	PARKING LOT
DRWY D 14+65.1	RT	36.0	ASPHALT	62.0	SPAULDING CHIROPRACTIC CLINIC
DRWY D 15+12.8	LT	39.0	ASPHALT	38.0	SUNSHINE TRAVIL PARKING LOT
DRWY D 17+65.4	LT	29.0	ASPHALT	44.0	EMPTY LOT
DRWY D 21+57.4	RT	38.3	ASPHALT	24.0	WESTMARK HOTEL PARKING LOT
DRWY D 23+96.3	RT	34.0	ASPHALT	29.0	WESTMARK HOTEL PARKING LOT
DRWY D 24+45.5	LT	31.8	ASPHALT	14.0	1ST NATIONAL BANK PARKING
DRWY D 24+56.4	RT	34.0	ASPHALT	22.0	WESTMARK HOTEL PARKING LOT
DRWY D 27+90.3	LT	32.5	CONCRETE	20.0	PRIVATE RESIDENCE; 402 7TH AVE
DRWY D 28+10.2	RT	26.0	ASPHALT	26.0	PRIVATE RESIDENCE; 335 6TH AVE
DRWY D 29+70.9	LT	27.5	ASPHALT	44.0	ABSOLUTELY ALASKAN REAL ESTATE
DRWY D 30+00.0	LT	22.1	ASPHALT	16.0	CRAFT MARKET
DRWY D 30+12.0	RT	26.0	ASPHALT	30.0	PRIVATE RESIDENCE; 335 5TH AVE
DRWY D 32+19.7	LT	39.0	ASPHALT	53.0	PARKING LOT
DRWY D 33+67.2	LT	37.9	CONCRETE	0.0	NORTHWARD BUILDING ENTRANCE
DRWY D 35+54.9	RT	29.8	ASPHALT	15.0	APARTMENT COMPLEX PARKING
DRWY D 38+98.4	LT	28.9	ASPHALT	23.0	PARKING LOT
TOTAL				828	AREA FOR DRIVEWAYS (BEHIND SIDEWALK)

DRIVEWAY DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G2	– –

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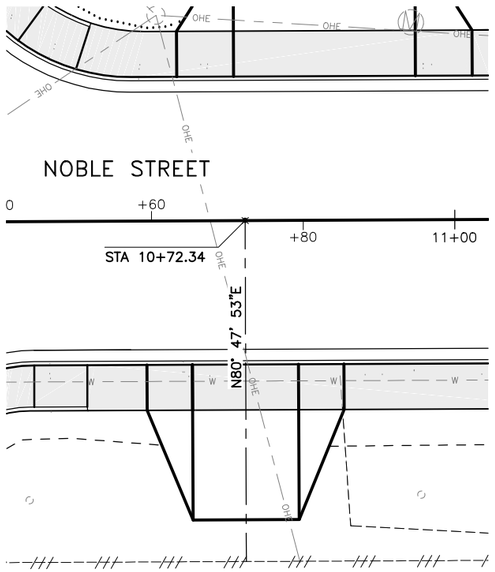

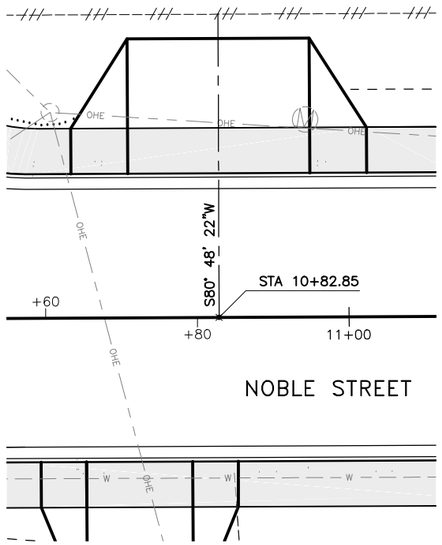

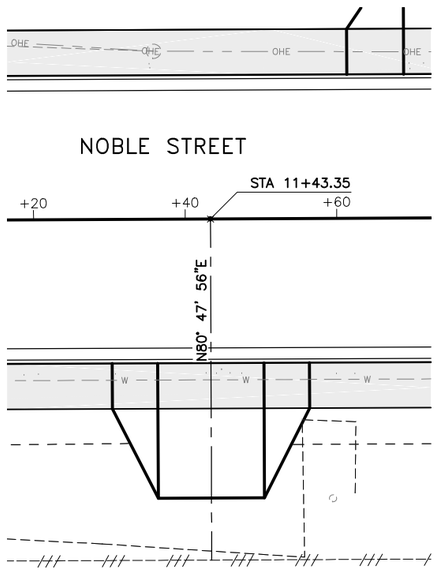

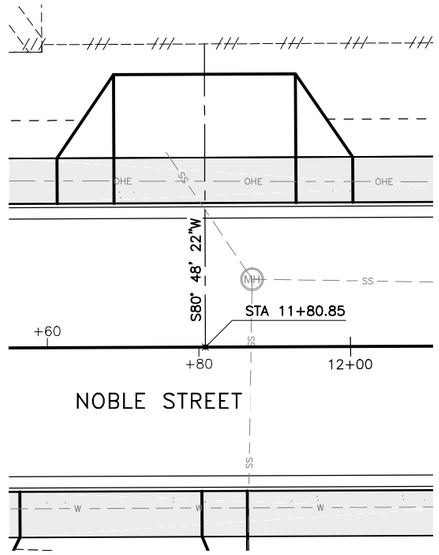

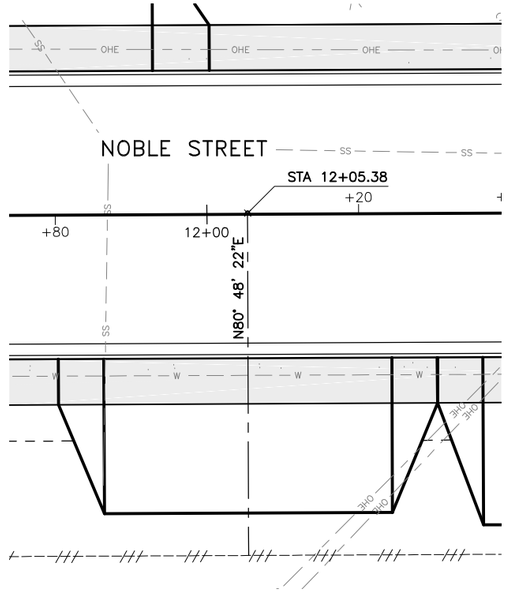

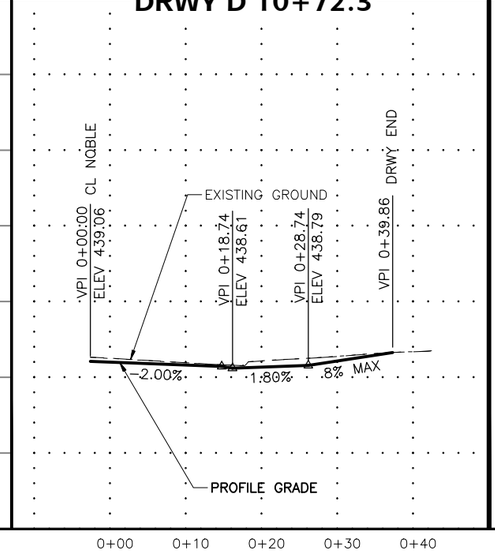

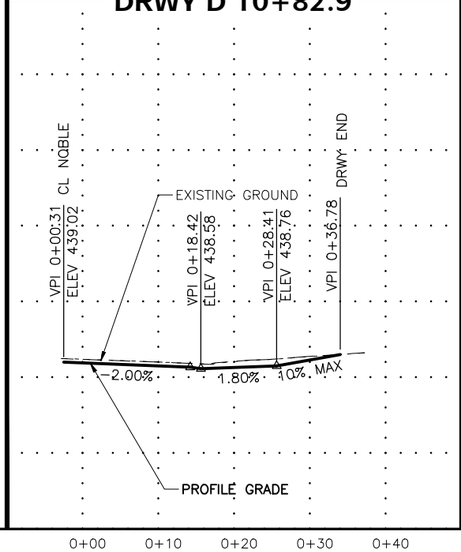

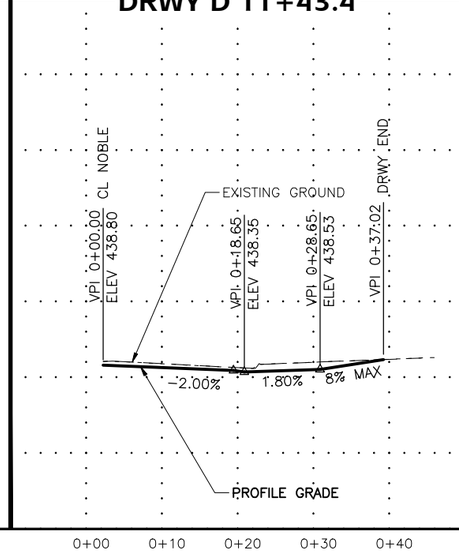

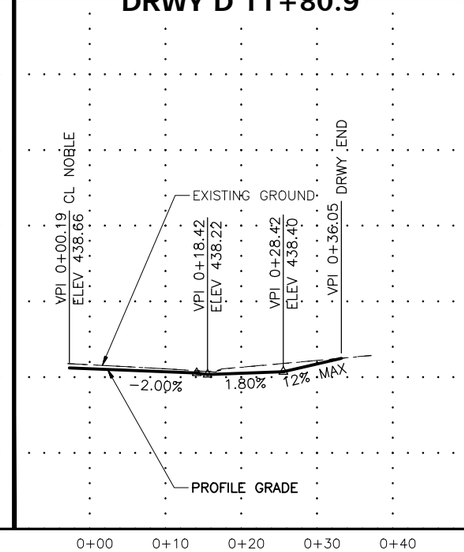

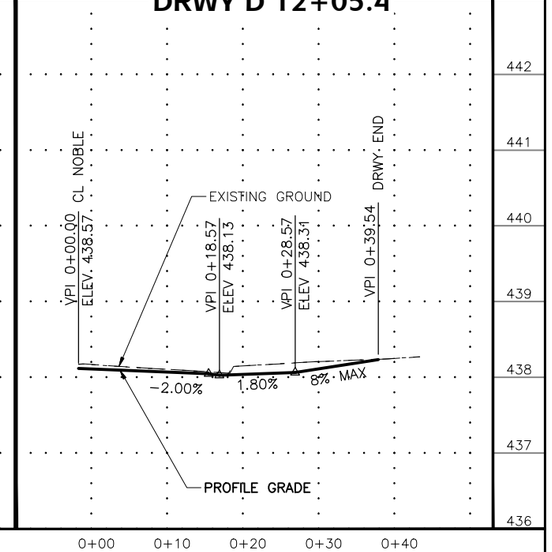

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DRIVEWAYS (1 OF 6)

STATE OF ALASKA
49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G3	– –

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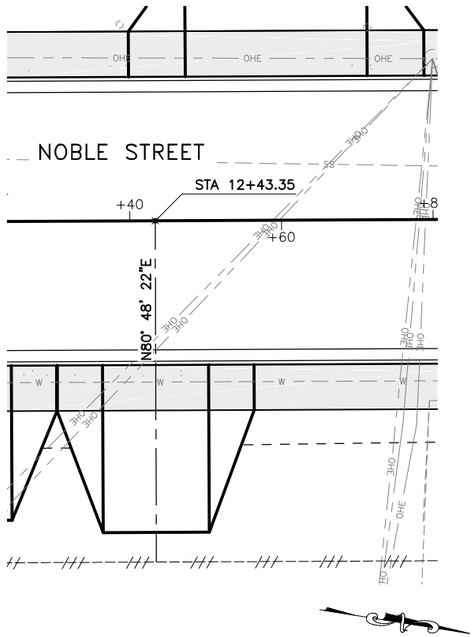
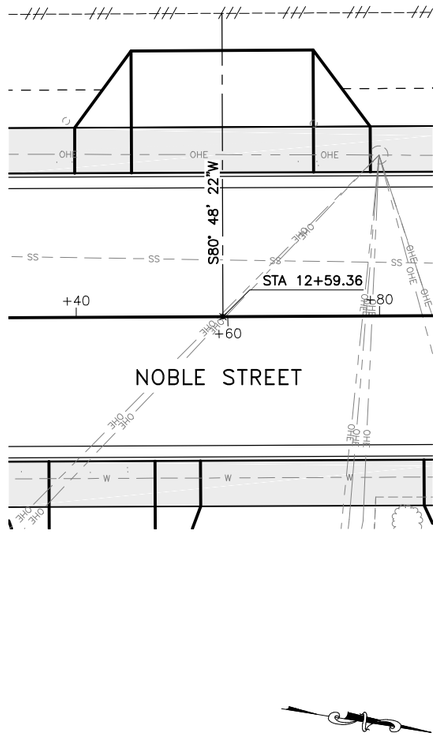
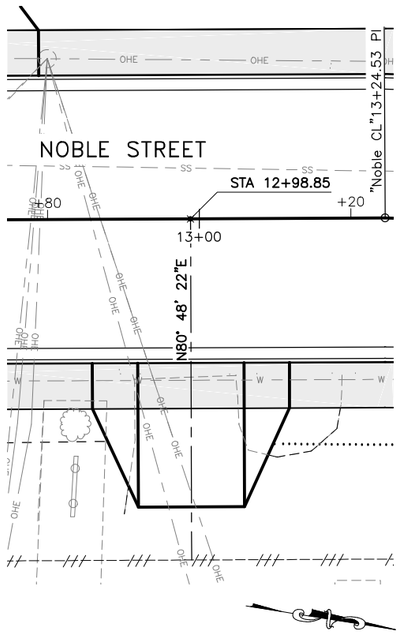
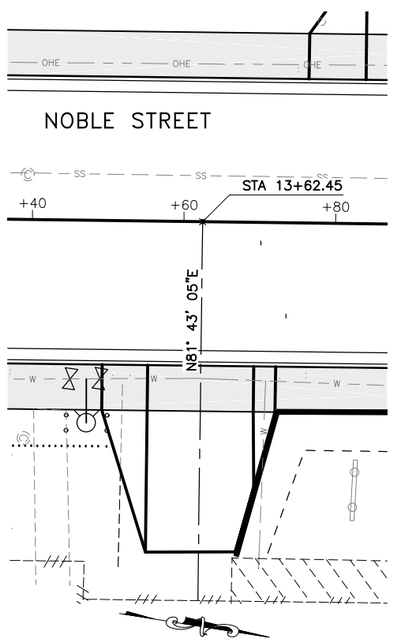
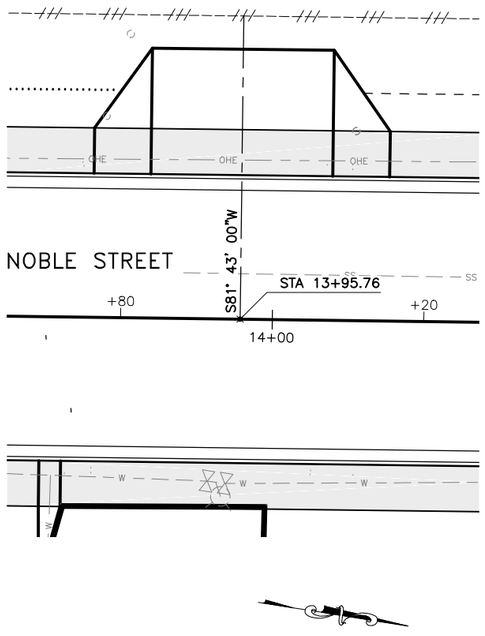


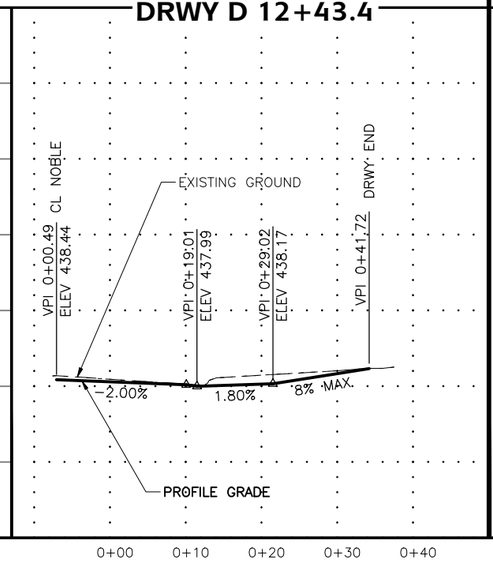




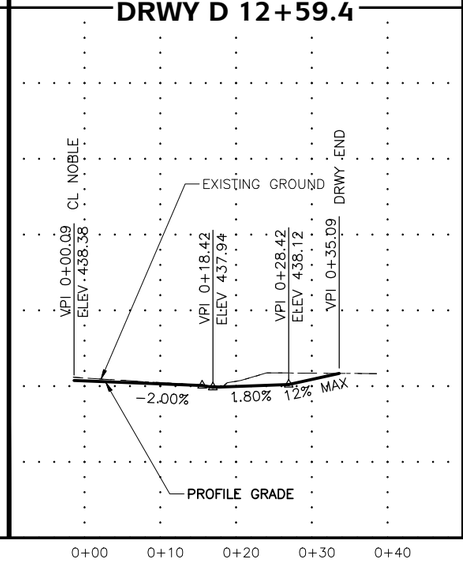




DRWY D 12+43.4



DRWY D 12+59.4



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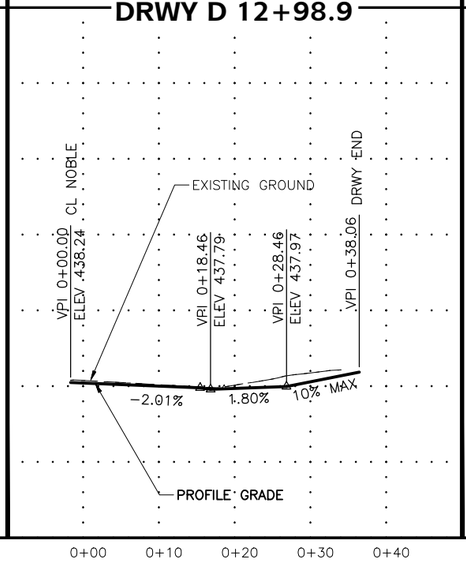

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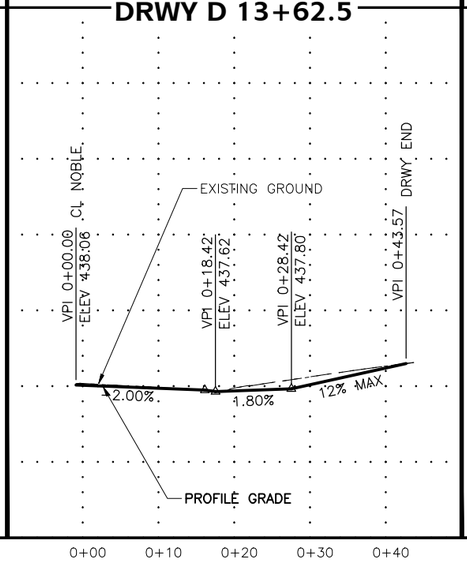
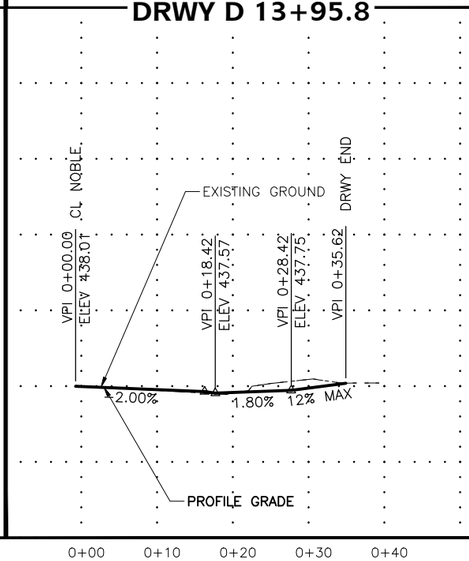


DRWY D 13+95.8



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DRIVEWAYS (2 OF 6)

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G4	– –

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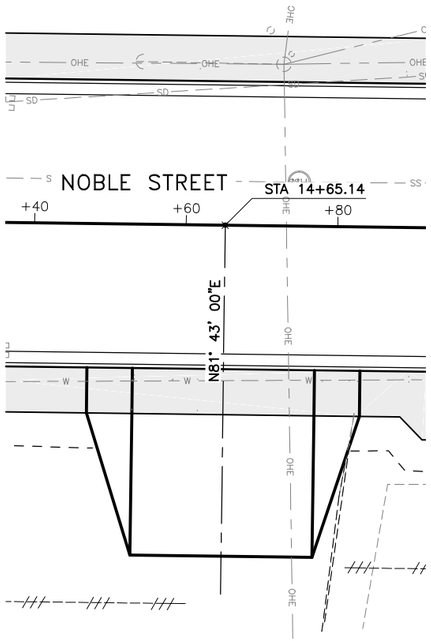
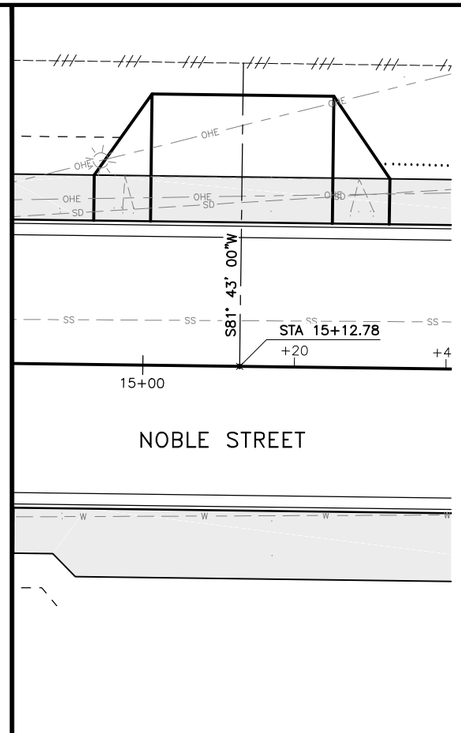
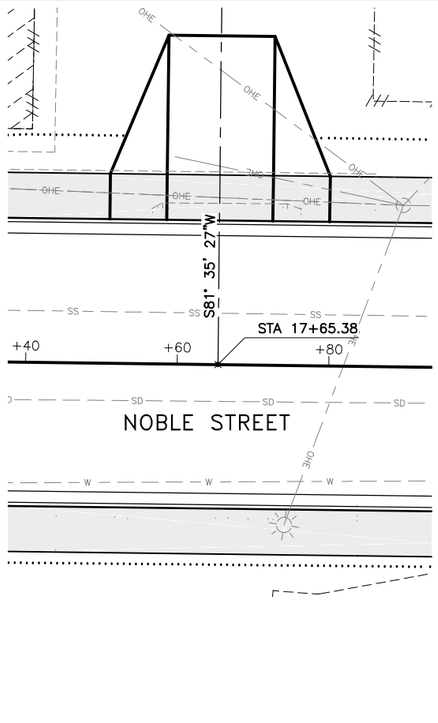


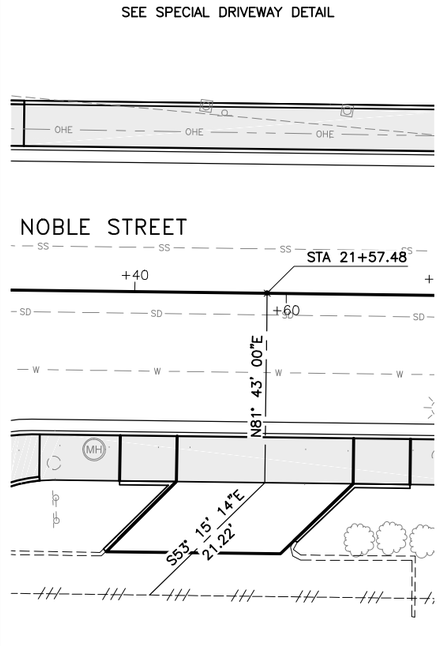
DRWY D 14+65.1



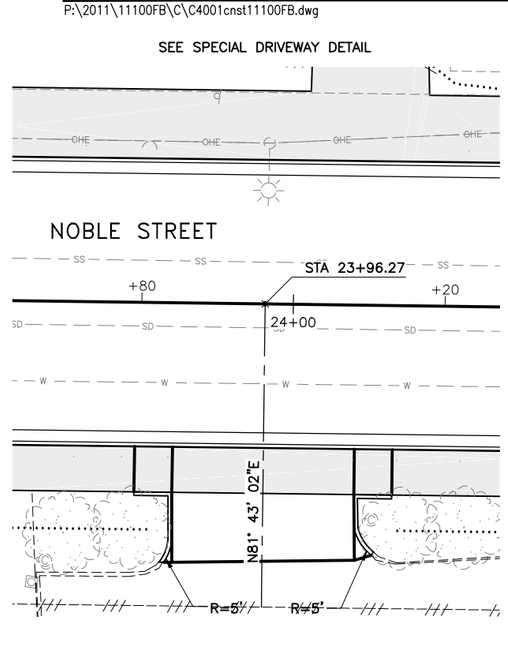
DRWY D 15+12.8



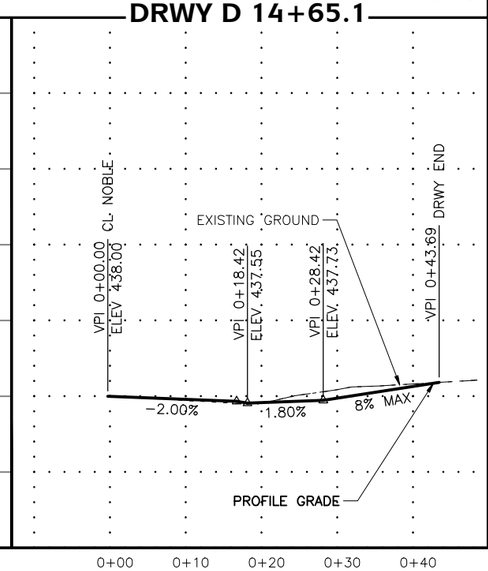
DRWY D 17+65.4



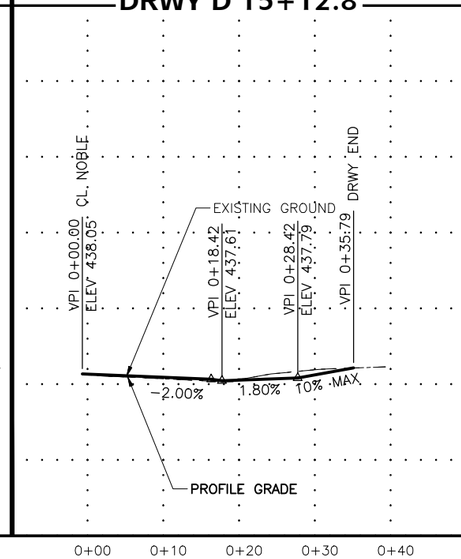
DRWY D 21+57.5



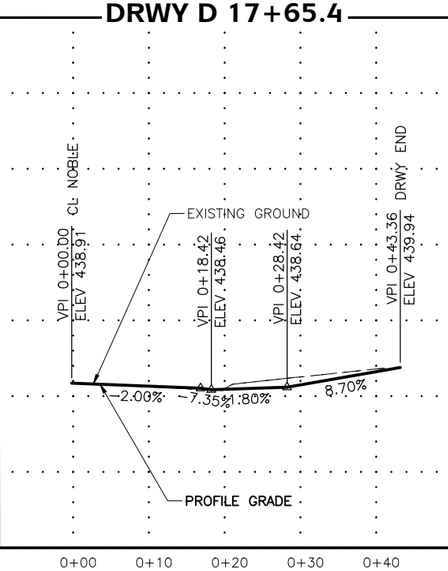
DRWY D 23+96.3



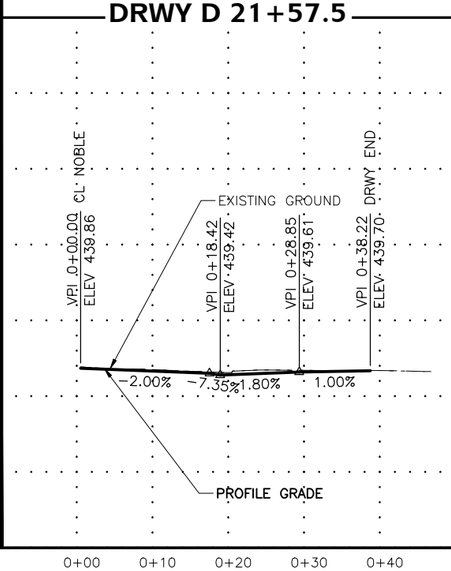
DRWY D 14+65.1



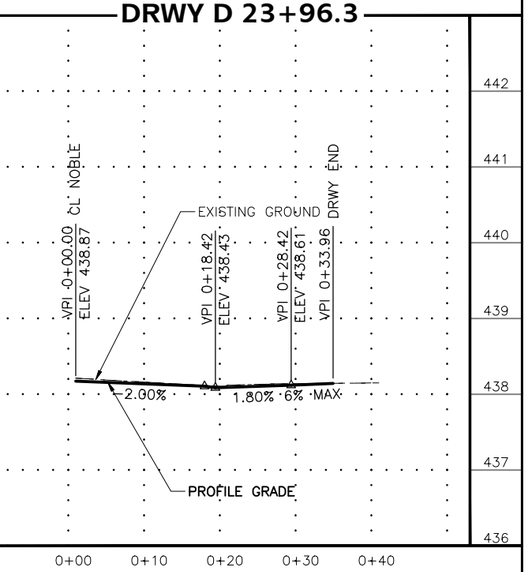
DRWY D 15+12.8



DRWY D 17+65.4



DRWY D 21+57.5



DRWY D 23+96.3

DRIVEWAYS (3 OF 6)

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G5	– –

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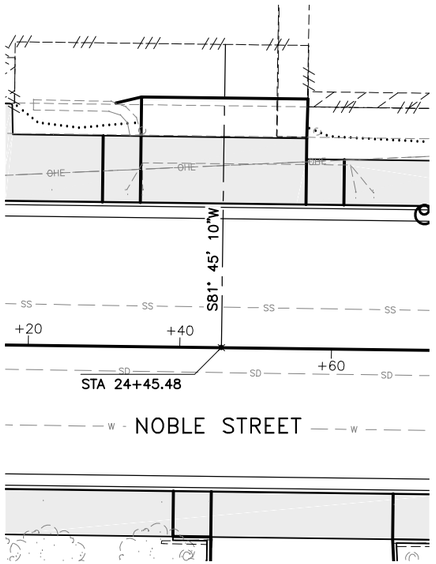
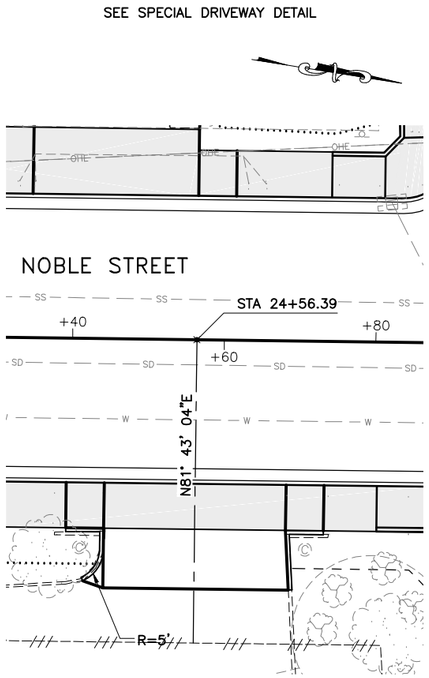


DRWY D 24+45.5



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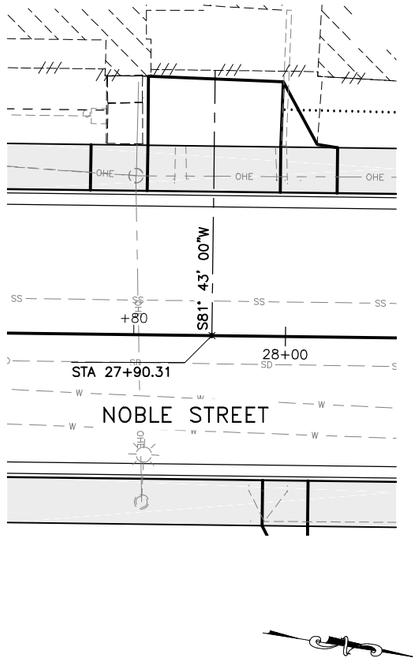
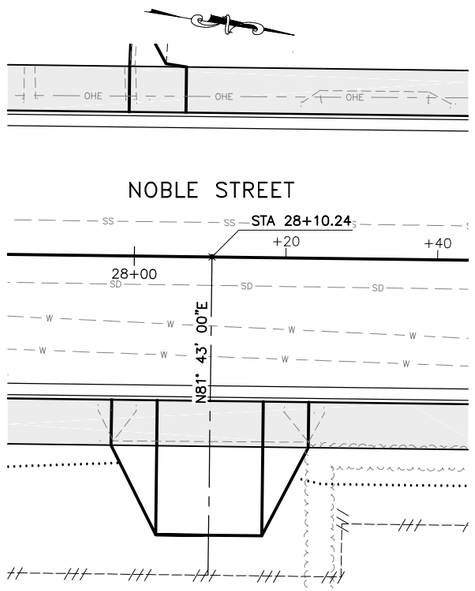
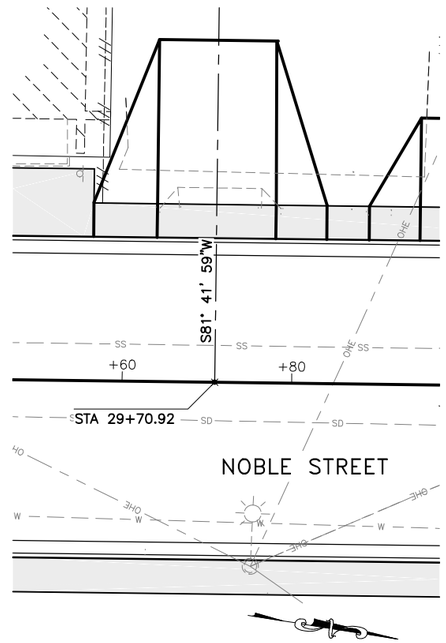


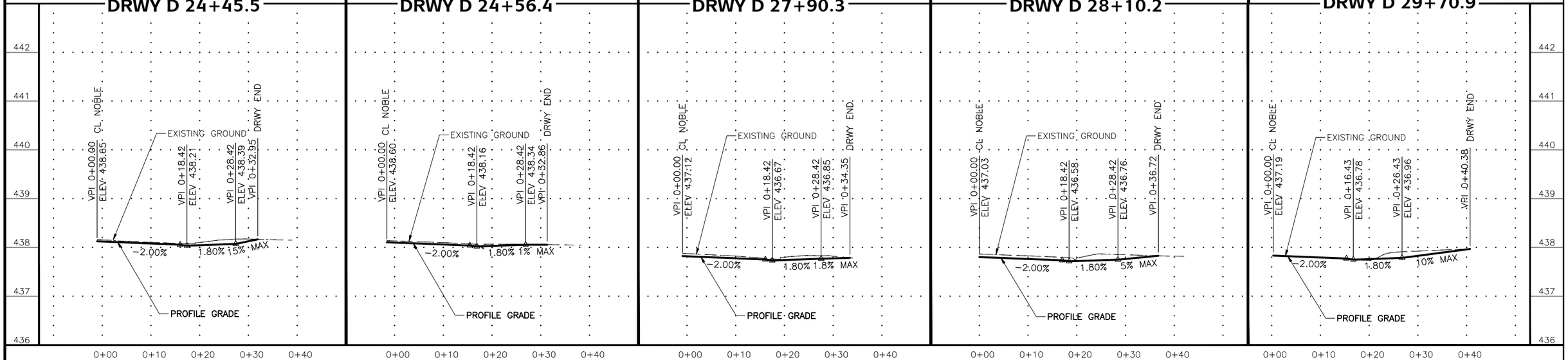
DRWY D 27+90.3



DRWY D 28+10.2



DRWY D 29+70.9



DRWY D 24+45.5

DRWY D 24+56.4

DRWY D 27+90.3

DRWY D 28+10.2

DRWY D 29+70.9

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DRIVEWAYS (4 OF 6)

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G6	– –

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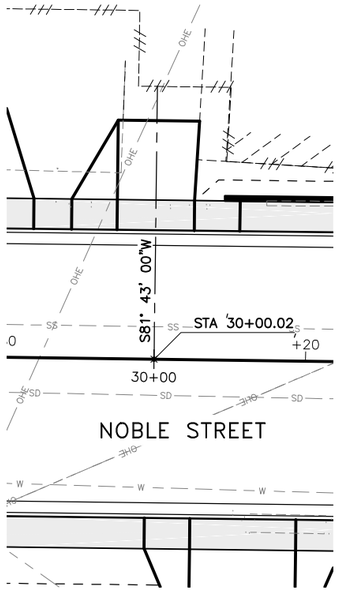
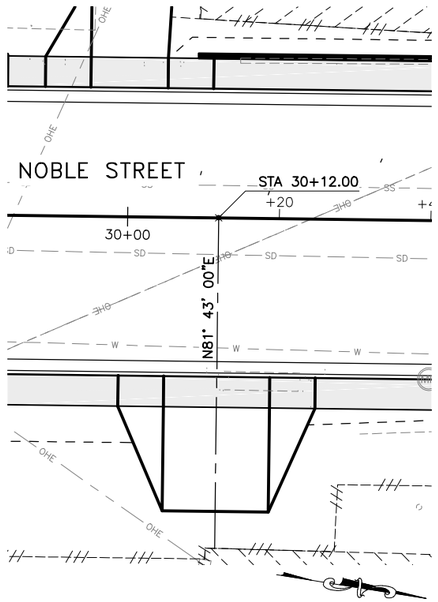
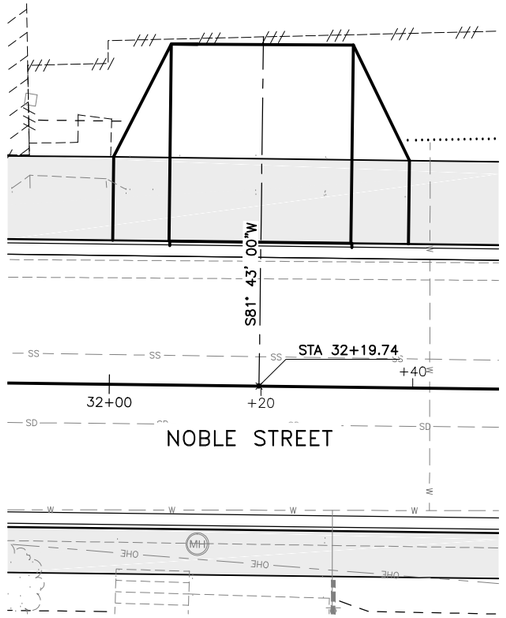
SEE SPECIAL DRIVEWAY DETAIL



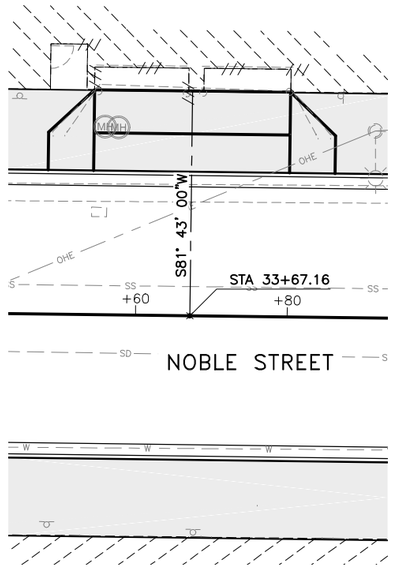
DRWY D 30+00.0



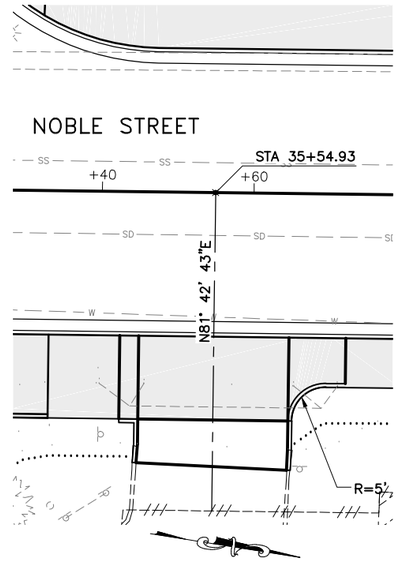
DRWY D 30+12.0



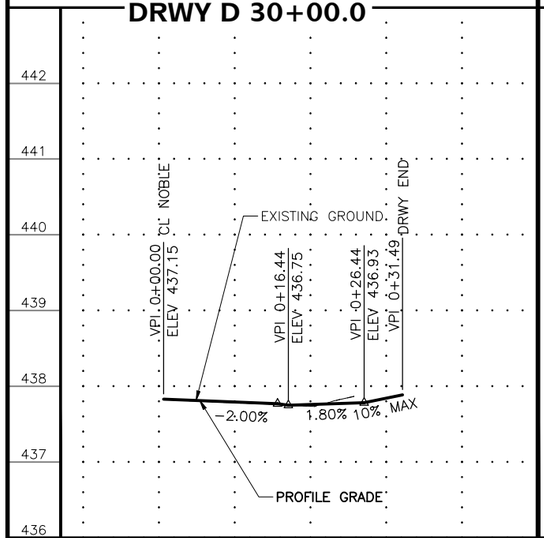
DRWY D 32+19.7

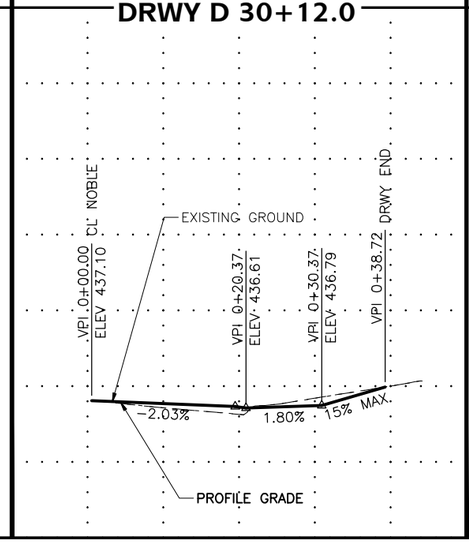


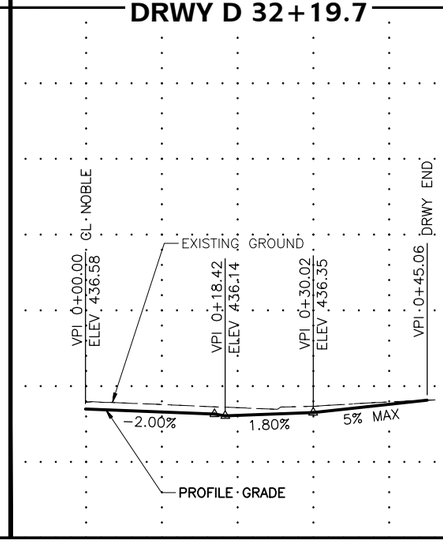
DRWY D 33+67.7

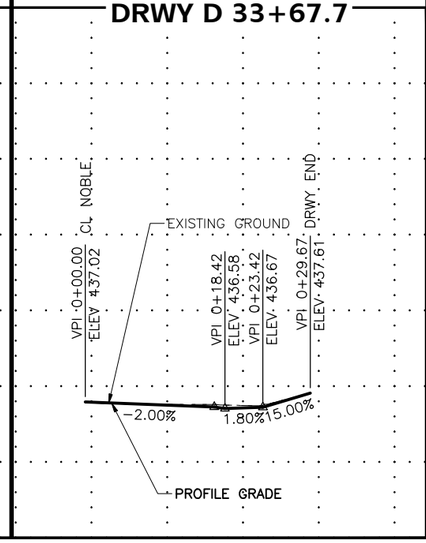


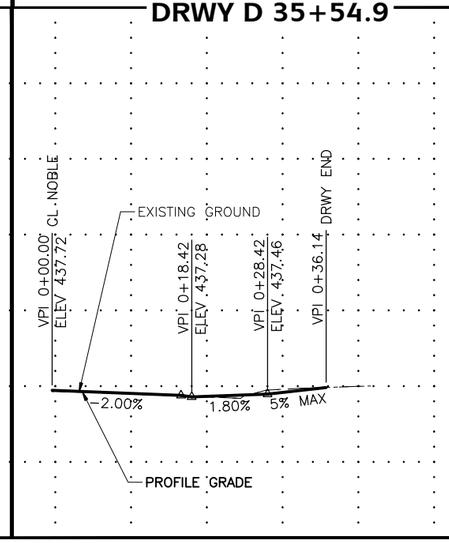
DRWY D 35+54.9











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DRIVEWAYS (5 OF 6)

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	G7	– –

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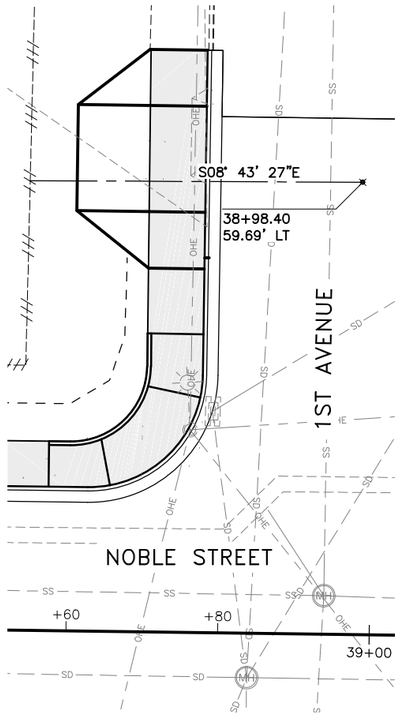

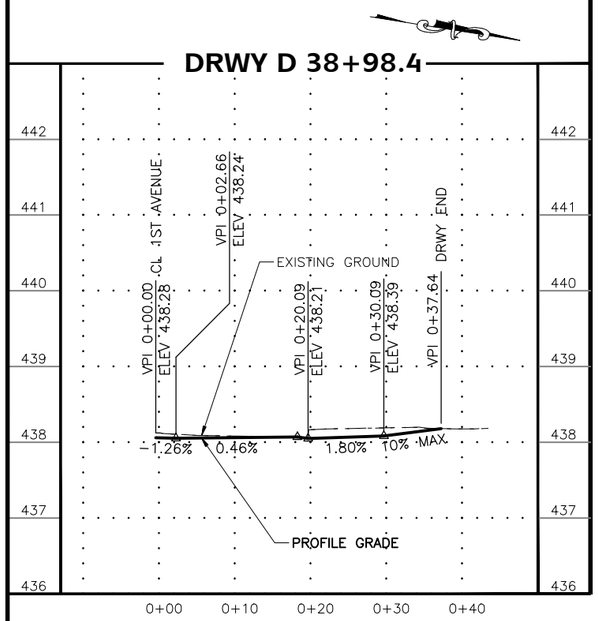

Friday, December 12, 2014, 12:14 PM

DRIVEWAYS (6 OF 6)

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H1	– –

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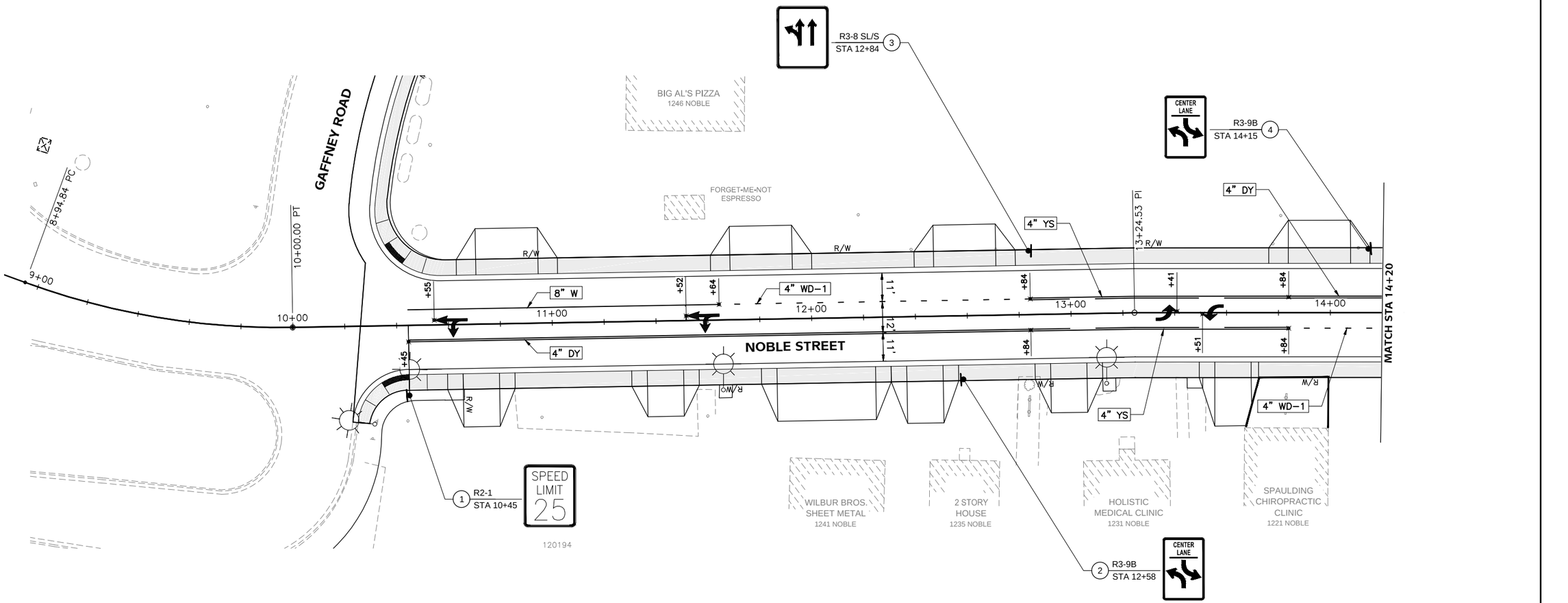
FEET
20 10 0 20 40

STRIPING NOTES:

1. ALL PROPOSED PAVEMENT MARKINGS SHALL BE INLAID METHYL METHACRYLATE.
2. DIMENSIONS REFER TO THE CENTER OF STRIPE, EDGE OF PAVEMENT OR LIP OF CURB WHEN PRESENT.
3. INSTALL DIRECTIONAL ARROWS IN ACCORDANCE WITH STANDARD DRAWINGS T-21.03 AND T-22.03 OR AS SHOWN ON THESE PLANS.
4. TRANSITION NEW PAVEMENT MARKINGS TO MATCH EXISTING MARKINGS AT A 100:1 TAPER ON THE NEW ASPHALT.
5. FOR CLARITY, UTILITIES ARE NOT SHOWN ON THESE SHEETS.

SIGN SYMBOL KEY:

(#) SIGN CODE(S) STATION
SIGNING LOCATION #



TRAFFIC MARKING KEY

4"W	4" WHITE LINE	24"W	24" WHITE LINE
4"WS	4" WHITE SKIP LINE (10' STRIPE/30' SKIP PATTERN)	STD	SEE STANDARD DRAWING
4"WD-1	4" WHITE DOTTED LINE (2' STRIPE/6' SKIP PATTERN)	SY	SOLID YELLOW
4"YS	4" YELLOW SKIP LINE (10' STRIPE/30' SKIP PATTERN)		
4"DY	4" DOUBLE YELLOW LINE		
8"W	8" WHITE LINE		

NOTE:
DIMENSIONS ARE TO CENTER OF STRIPE OR STRIPE GROUP.

SIGNING & STRIPING
10+58 – 14+20

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H2	– –

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FEET
20 10 0 20 40

1100 Noble St 1200
400 12th Ave 300
SPECIAL-1, SPECIAL-1, R1-1
STA 16+27 (5)
STOP

1000 Noble St 1100
400 11th Ave 300
SPECIAL-1 ,SPECIAL-1, R1-1
STA 18+55 (11)
STOP

CENTER LANE
R3-9B
STA 18+13 (10)

SUNSHINE TRAVEL
1200 NOBLE

3 STORY APARTMENT BUILDING
406 12th

LAW OFFICE
401 11th

12TH AVE

11TH AVE

8" W

13'

12'

30.50 LT
STOP BAR

24" W

4" DY

4" YS

R/W

30.99 LT
STOP BAR

10'

MATCH STA 14+20

MATCH STA 19+40

NOBLE STREET

15+00 16+00 17+00 18+00 19+00

+24 +04 +16 +24 +33 +04 +43 +14 +54 +05 +89

11' 12' 11' 12'

STD

4" WD-1

31.00 RT
STOP BAR

12' 10'

FIRST CARE
1001 NOBLE

6 R3-8L/S
STA 14+89

7 W11-106
STA 16+36

9 R3-9B
STA 17+08
CENTER LANE

8 SPECIAL-1, SPECIAL-1, R1-1
STA 16+87

1100 Noble St 1200
400 12th Ave 300
STOP

SIGNING & STRIPING
14+20 – 19+40

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:15 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H3	– –

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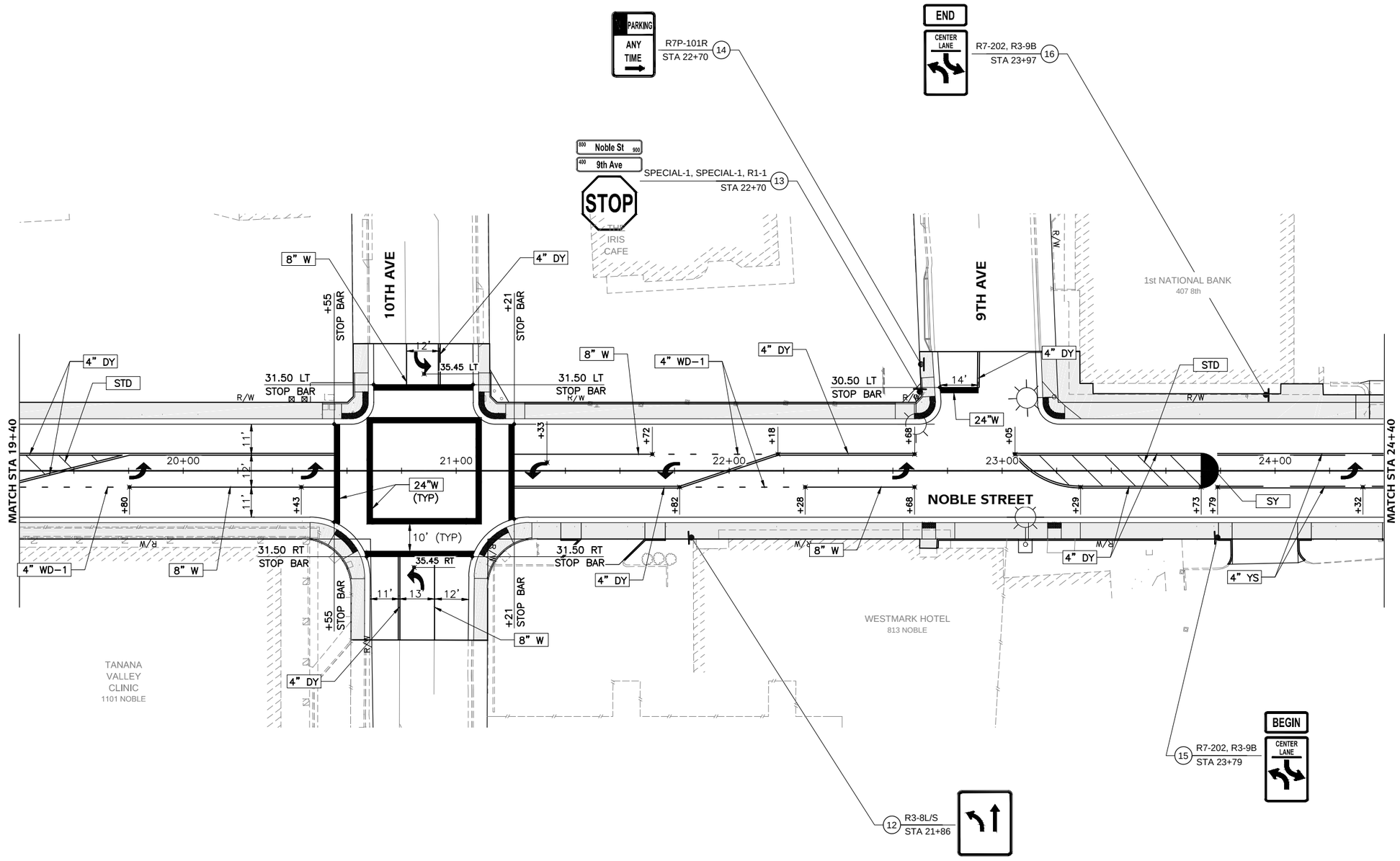
FEET
20 10 0 20 40



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SIGNING & STRIPING
19+40 – 24+40

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H4	– –

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FEET
20 10 0 20 40

R7-108L, R7P-101R
STA 25+32 (18)

2 HR PARKING 9:00 AM TO 6:00 PM MON–FRI

PARKING ANY TIME

700 Noble St 800
400 8th Ave 300

SPECIAL-1, SPECIAL-1, R1-1
STA 24+82 (17)

STOP

CENTER LANE

R3-9B
STA 28+09 (26)

R3-9B
STA 26+60
24.6 L (22)

CENTER LANE

700 Noble St 800
400 7th Ave 300

SPECIAL-1, SPECIAL-1, R1-1
STA 26+77
28.5 L (23)

STOP

PARKING ANY TIME

2 HR PARKING 9:00 AM TO 6:00 PM MON–FRI

R7P-101L, R7-108R
STA 29+24 (29)

SPEED LIMIT 25

R2-1
STA 29+56 (33)

2 HR PARKING 9:00 AM TO 6:00 PM MON–FRI

PARKING ANY TIME

R7-108L, R7P-101R
STA 29+25 (30)

ONE WAY

STOP

DO NOT ENTER

R5-1, R1-1, R6-1R
STA 29+24 (31)

1st FLOOR PARKING GARAGE

8TH AVE

SOUTHALL MANOR
401 7th

4" DY

33.20 LT
STOP BAR

17'

24"W

7TH AVE

12'

30.62 LT
STOP BAR

120268

SPECIAL-1, SPECIAL-1, R1-1, R6-1L
STA 28+85 (27)

500 Noble St 600
400 6th Ave 300

STOP

ONE WAY

2 STORY HOUSE
402 7th

EN HEART BUILDING
600 NOBLE

30.50 LT
STOP BAR

6TH AVE

LOG CABIN
510 NOBLE

4" YS

NOBLE STREET

MATCH STA 24+40

25+00 +73 26+00 +31 27+00 +67 28+00 +21 29+00

MATCH STA 29+60

+42 +82 +34 +83 +41 +74 +28 +77 +31 +71 +26

11' 12' 11' 14' 12'

30.50 RT
STOP BAR

30.56 RT
STOP BAR

4" DY

4" YS

SPECIAL-1, SPECIAL-1, R1-1
STA 25+31 (19)

700 Noble St 800
400 8th Ave 300

STOP

R2-1
STA 26+04 (21)

SPEED LIMIT 25

R3-9B
STA 25+54 (20)

CENTER LANE

DO NOT ENTER

R5-1
STA 28+84 (28)

2 STORY HOUSE
335 6th

GARAGE

R3-9B
STA 27+33 (24)

CENTER LANE

SPECIAL-1, SPECIAL-1, R1-1
STA 27+22 (25)

500 Noble St 600
400 6th Ave 300

STOP

SPECIAL-1, SPECIAL-1, R1-1
STA 29+18 (32)

700 Noble St 800
400 7th Ave 300

STOP

SIGNING & STRIPING
24+40 – 29+60

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H5	– –

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FEET
20 10 0 20 40

36 R7-108L, R7P-101R
STA 30+74
75.7 L

2 HR PARKING 9:00 AM TO 6:00 PM MON–FRI

PARKING ANY TIME

STOP
ONE WAY
41 R1-1, R6-1R
STA 32+75

DO NOT ENTER
42 R5-1
STA 32+75

BEGIN
CENTER LANE
40 R7-202, R3-9B
STA 32+35

400 Noble St 500
400 5th Ave 300
STOP
DO NOT ENTER
ONE WAY
37 SPECIAL-1, SPECIAL-1, R1-1, R5-1, R6-1L
STA 30+73

CENTER LANE
35 R3-9B
STA 30+47

44 SPECIAL-1, SPECIAL-1, R1-1, R5-1, R6-1R
STA 33+20
30.2 L
300 Noble St 400
400 4th Ave 300
STOP
DO NOT ENTER
ONE WAY

46 R3-8L/S
STA 33+95
29.2 L

RESIDENCE
CRAFT MARKET
401 NOBLE
ALOHA GRILL
402 5th
OFFICE BUILDING
407 4th
5TH AVE
4TH AVE
4" WS
4" YS
4" DY
18'
R/W
35.50 LT
STOP BAR
SY
STD
24"W
8" W
MATCH STA 29+60
MATCH STA 34+40
30+00
31+00
32+00
33+00
34+00
+73 +83 +21 +31 +70 +65 +75 +26 +39 +45 +68 +74 +52 +98 +12 +62 +08
11' 12' 11' 12' 11' 17'
NOBLE STREET
2 STORY HOUSE
335 5th
MUSIC MART
413 NOBLE
LARSON'S JEWELRY
405 NOBLE
30.50 RT
STOP BAR
12'
20'
33.43 RT
STOP BAR
4" WD–1
UNOCCUPIED 1 STORY BLOCK BUILDING
END
CENTER LANE
47 R7-202, R3-9B
STA 32+39

34 R3-9B
STA 29+95
CENTER LANE

39 R3-9B
STA 31+49
CENTER LANE

38 SPECIAL-1, SPECIAL-1, R1-1
STA 31+22
400 Noble St 500
400 5th Ave 300
STOP

PARKING ANY TIME
43 R7P-101L
STA 32+72

45 SPECIAL-1, SPECIAL-1, R1-1
STA 33+21
300 Noble St 400
400 4th Ave 300
STOP

SIGNING & STRIPING
29+60 – 34+40

STATE OF ALASKA 49TH
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H6	– –

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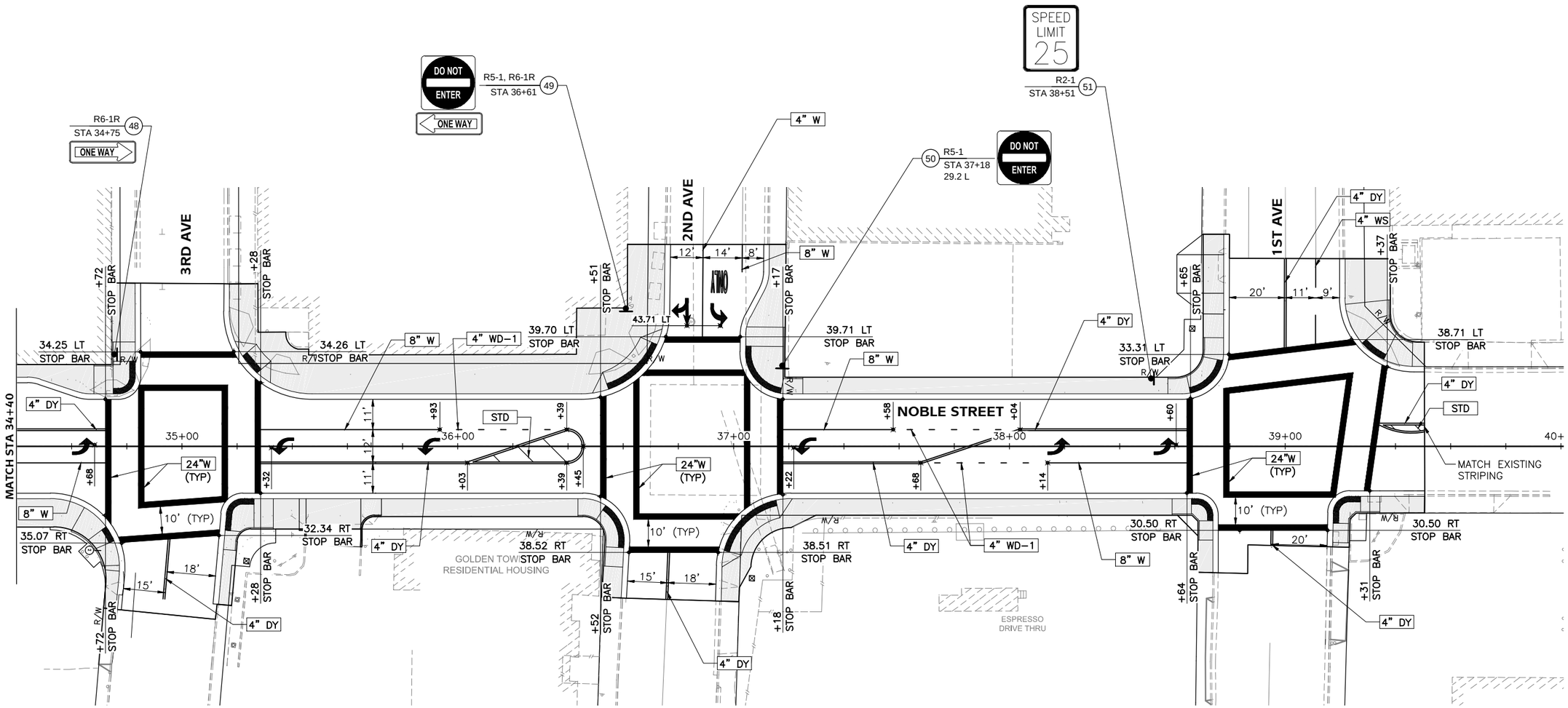
FEET
20 10 0 20 40



SIGNING & STRIPING
34+40 – 38+70

STATE OF ALASKA
49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:16 PM

SIGNING SUMMARY

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H7	– –

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LOCATION NUMBER	STATION	OFFSET (FT)	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	SIZE HXV (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ. FT.)	MOUNTING HEIGHT	DIRECTION	POSTS TYPE	POSTS SIZE (IN)	POSTS NO.	REMARKS
1	10+45	27.0		X	R2-1	SPEED LIMIT 25	24X30			5		S				MOUNT ON LIGHT POLE
2	11+58	25.6		X	R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S	PST	2.5	1	
3	12+84	27.6	X		R3-8SL/S	(LT TURN & STRAIGHT ARROWS)	30X30	X		6.25		N	PST	2.5	1	
4	14+15	31.4	X		R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		N	PST	2.5	1	
5	16+27	29.4	X		SPECIAL 1	1200 NOBLE ST 1100	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 11TH AVE
					SPECIAL 1	1100 NOBLE ST 1200	42X8	X		2.33		W				
					SPECIAL 1	400 12TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 12TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		W				
6	14+89	27.5		X	R3-8L/S	(LT TURN & STRAIGHT ARROWS)	30X30	X		6.25		S	PST	2.5	1	
7	16+36	46.0		X	W11-106	CHILDREN PLAYING (IMAGE)	30X30	X		6.25		W	PST	2.5	1	
8	16+87	29.0		X	SPECIAL 1	1200 NOBLE ST 1100	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 11TH AVE
					SPECIAL 1	1100 NOBLE ST 1200	42X8	X		2.33		W				
					SPECIAL 1	400 12TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 12TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		E				
9	17+08	23.8		X	R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S	PST	2.5	1	
10	18+13	23.8	X		R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		N	PST	2.5	1	
11	18+55	30.3	X		SPECIAL 1	1100 NOBLE ST 1000	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 11TH AVE
					SPECIAL 1	1000 NOBLE ST 1100	42X8	X		2.33		W				
					SPECIAL 1	400 11TH AVE	36X8	X		2		S	PST	2.5	1	MOUNT ABOVE STOP
					SPECIAL 1	11TH AVE 400	36X8	X		2		N				
					R1-1	STOP	24X24	X		4		W				
12	21+87	23.8		X	R3-8L/S	(LT TURN & STRAIGHT ARROWS)	30X30	X		6.25		S	PST	2.5	1	
13	22+70	28.9	X		SPECIAL 1	900 NOBLE ST 800	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 9TH AVE
					SPECIAL 1	800 NOBLE ST 900	42X8	X		2.33		W				
					SPECIAL 1	400 9TH AVE	36X8	X		2		S	PST	2.5	1	MOUNT ABOVE STOP
					SPECIAL 1	9TH AVE 400	36X8	X		2		N				
					R1-1	STOP	24X24	X		4		W				

SIGNING NOTES:

1. REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND FOUNDATIONS WITHIN THE PROJECT LIMITS, EXCEPT THOSE DESIGNATED FOR REINSTALLATION, SALVAGE OR OTHERWISE NOTED.
2. OFFSET DISTANCES LISTED ARE FROM DESIGN CENTERLINE TO SIGN CENTERLINE.
3. INSTALL PST SIGN POSTS WITH SIDEWALK MOUNTING STUB PER DETAIL ON SHEET H10.
4. MOUNTING HEIGHTS ARE PER STANDARD DRAWINGS S-05.01 UNLESS OTHERWISE NOTED.
5. DETERMINE POST LENGHTS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
6. MOUNT SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE SIDEWALK WITH A MOUNTING HEIGHT OF 8 FEET.
7. INSTALL "TUBE POST SIGN BRACING" AS SHOWN ON STANDARD DRAWING S-01.00 ON ALL SIGNS, EXCEPT D3-1 SERIES AND SPECIAL 1 SIGNS, MOUNTED ON A SINGLE PST POST AND HAVING A HORIZONTAL DIMENSION OF 30 INCHES OR GREATER. INSTEAD OF THE 5/8" GALVANIZED BOLTS AND NYLON LOCKING NUTS SHOWN ON STANDARD DRAWING S-01.00, USE GALVANIZED 3/8" BOLTS, SPLIT LOCK WASHERS AND NUTS. STAINLESS STELL FASTENER HARDWARE MAY BE USED INSTEAD OF GALVANIZED. ¼"X1-1/2" ALUMINUM ALLOY 6061-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES.
8. SIGNS TO BE INSTALLED ON LIGHT POLES MAY REQUIRE TEMPORARY INSTALLATION ON 2-1/2" PST UNTIL THE LIGHT POLES ARE IN PLACE. THIS WORK IS SUBSIDIARY TO PAY ITEM 615(1).
9. SEE SIGNALIZATION PLANS (H30-H45) FOR LOCATION OF MAST ARM MOUNTED SIGNS.
10. STOP (R1-1) SIGN LOCATIONS, ESPECIALLY THOSE AT LARGE RADIUS INTERSECTIONS, MAY NEED ADJUSTMENT IN THE FIELD. THE ENGINEER WILL APPROVE FINAL LOCATIONS.
11. INSTALL D3-1, AND SPECIAL 1 SIGNS ABOVE THEIR RESPECTIVE STOP SIGNS. WHEN TWO D3-1 SERIES OR SPECIAL 1 SIGNS ARE TO BE LOCATED ON THE SAME POST, INSTALL THE CROSS-STREET PANEL IN THE LOWER POSITION.
12. D3-1 SERIES AND SPECIAL 1 SIGNS REQUIRE TWO SEPARATE SINGLE SIDED PANELS. END-BRACE PANELS PER SMALL STREET NAME SIGN BRACING DETAILS IN STANDARD DRAWING S-01.00.
13. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
14. USE SERIES C LETTERS, SERIES 2000 FOR D3-1 SERIES AND SPECIAL 1 SIGNS UNLESS OTHERWISE NOTED. USE UPPER AND LOWER CASE LETTERS. THIS MODIFIES THE ASDS TO BE IN CONFORMANCE WITH THE 2009 MUTCD.
15. USE A 3" HORIZONTAL SPACING BETWEEN WORDS, BETWEEN CARDINAL DIRECTIONS AND WORDS, AND BETWEEN WORDS AND NUMBERS ON D3-1 AND SPECIAL 1 SIGNS UNLESS OTHERWISE NOTED.
16. ALL LETTERING THAT INCLUDES UPPER AND LOWER CASE LETTERS SHALL BE SERIES E- MODIFIED OR AS NOTED IN APPENDIX C OF THE ASDS EXCEPT FOR D3-1 SERIES AND SPECIAL 1 SIGNS WHICH ARE SERIES 2000 LETTERS.
17. 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.
18. INSTALL WEATHER TIGHT CAPS ON ALL TUBE POSTS, EXCEPT PERFORATED STEEL TUBE.
19. 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.
20. ALL SIGNS NOTED FOR REMOVAL AND REINSTALLATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE IF THEY ARE DAMAGED DURING THE RELOCATIOIN EFFORT.
21. ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE FASTENER SPECIFICATION TABLE ON SHEET H10.

POST TYPE CODING:
PST = PERFORATED STEEL TUBING
TS = SQUARE STRUCTURAL STEEL TUBING

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

SIGN SUMMARY (1 OF 3) & NOTES

Friday, December 12, 2014, 12:16 PM

SIGNING SUMMARY

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H8	– –

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LOCATION NUMBER	STATION	OFFSET (FT)	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	SIZE HXV (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ. FT.)	MOUNTING HEIGHT	DIRECTION	POSTS TYPE	POSTS SIZE (IN)	POSTS NO.	REMARKS
14	22+71	39.0	X		R7P-101 R	NO PARKING ANY TIME (ARROW RT)	12X18	X		1.5		N	PST	2.5	1	
15	23+09	27.0		X	R7-202	BEGIN	24X12			2		S				
					R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36			6		S				
16	23+97	29.1	X		R7-202	END	24X12			2		N	PST	2.5	1	
					R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36			6		N				
17	24+83	29.1	X		SPECIAL 1	800 NOBLE ST 700	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 8TH AVE
					SPECIAL 1	700 NOBLE ST 800	42X8	X		2.33		W				
					SPECIAL 1	400 8TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 8TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		W				
18	25+33	62.2	X		R7-108L	2 HR PARKING 9 AM TO 6PM (ARROW LT)	24X18	X		3		S	PST	2.5	1	MOUNT SIDE BY SIDE
					R7P-101 R	NO PARKING ANY TIME (ARROW RT)	24X18	X		3		S				
19	25+31	29.1		X	SPECIAL 1	800 NOBLE ST 700	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 8TH AVE
					SPECIAL 1	700 NOBLE ST 800	42X8	X		2.33		W				
					SPECIAL 1	400 8TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 8TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		E				
20	25+54	23.8		X	R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S	PST	2.5	1	
21	26+04	25.8		X	R2-1	SPEED LIMIT 25	24X30			5		S	PST	2.5	1	
22	26+60	23.8	X		R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		N	PST	2.5	1	
23	26+77	28.5	X		SPECIAL 1	700 NOBLE ST 600	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 7TH AVE
					SPECIAL 1	600 NOBLE ST 700	42X8	X		2.33		W				
					SPECIAL 1	400 7TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 7TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		W				
24	27+25	24.0		X	R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S	PST	2.5	1	
25	27+22	28.6		X	SPECIAL 1	700 NOBLE ST 600	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 7TH
					SPECIAL 1	600 NOBLE ST 700	42X8	X		2.33		W				
					SPECIAL 1	400 7TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 7TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		E				
26	28+09	26.5	X		R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36			6		N	PST	2.5	1	
27	28+85	29.4	X		SPECIAL 1	600 NOBLE ST 500	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 6TH
					SPECIAL 1	500 NOBLE ST 600	42X8	X		2.33		W				
					SPECIAL 1	400 6TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE ONE WAY
					SPECIAL 1	300 6TH AVE 400	42X8	X		2.33		N				
					R6-1L	ONE WAY (ARROW LT)	36X12	X		3		N				MOUNT ABOVE STOP
					R1-1	STOP	24X24	X		4		W				
28	28+84	26.1	X		R5-1	DO NOT ENTER	30X30			6.25		E				MOUNT ON LIGHT POLE
29	29+24	70.8	X		R7P-101L	NO PARKING ANY TIME (ARROW LT)	12X18	X		1.5		S	PST	2.5	1	MOUNT SIDE BY SIDE
					R7-108R	2 HR PARKING 9 00 AM TO 6 00 PM (ARROW RT)	12X18	X		1.5		S				
30	29+25	48.3	X		R7-108L	2 HR PARKING 9 00 AM TO 6 00 PM (ARROW LT)	12X18	X		1.5		S	PST	2.5	1	MOUNT SIDE BY SIDE
					R7P-101 R	NO PARKING ANY TIME (ARROW RT)	12X18	X		1.5		S				
31	29+24	29.5	X		R5-1	DO NOT ENTER	30X30	X		6.25		E	PST	2.5	1	MOUNT BEHIND STOP
					R1-1	STOP	30X30	X		6.25		W				
					R6-1R	ONE WAY (ARROW RT)	36X12	X		3		S				MOUNT ABOVE STOP
32	29+18	29.7		X	SPECIAL 1	600 NOBLE ST 500	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 6TH
					SPECIAL 1	500 NOBLE ST 600	42X8	X		2.33		W				
					SPECIAL 1	400 6TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 6TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		E				
33	29+55	23.8	X		R2-1	SPEED LIMIT 25	24X30	X		5		N	PST	2.5	1	
34	29+95	25.9		X	R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S	PST	2.5	1	
35	30+47	20.7	X		R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36			6		N	PST	2.5	1	
36	30+74	75.7	X		R7-108L	2 HR PARKING 9:00 AM TO 6:00 PM (ARROW RT)	12X18	X		1.5		N	PST	2.5	1	MOUNT SIDE BY SIDE
					R7P-101 R	NO PARKING ANY TIME (ARROW LT)	12X18	X		1.5		N				

POST TYPE CODING:
PST = PERFORATED STEEL TUBING
TS = SQUARE STRUCTURAL STEEL TUBING

STATE OF ALASKA 49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

SIGN SUMMARY (2 OF 3)

Friday, December 12, 2014, 12:17 PM

SIGNING SUMMARY

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H9	– –

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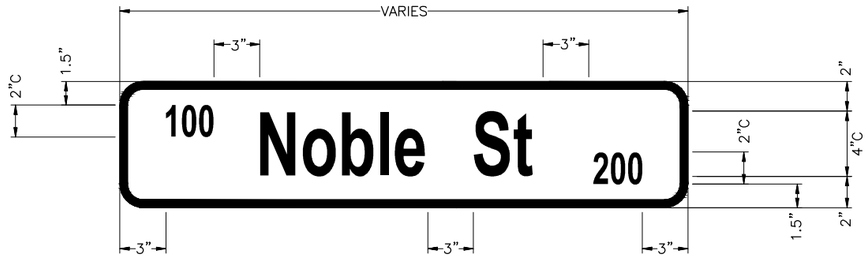
LOCATION NUMBER	STATION	OFFSET (FT)	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	SIZE HXV (INCHES)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	AREA (SQ. FT.)	MOUNTING HEIGHT	DIRECTION	POSTS TYPE	POSTS SIZE (IN)	POSTS NO.	REMARKS
37	30+72	27.0	X		SPECIAL 1	500 NOBLE ST 400	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 5TH AVE
					SPECIAL 1	400 NOBLE ST 500	42X8	X		2.33		W				
					SPECIAL 1	400 5TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE ONE WAY
					SPECIAL 1	300 5TH AVE 400	42X8	X		2.33		N				
					R6-1L	ONE WAY (ARROW LT)	36X12	X		3		N				MOUNT ABOVE STOP
					R1-1	STOP	24X24	X		4		W				
38	31+21	29.8		X	SPECIAL 1	500 NOBLE ST 400	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 5TH AVE
					SPECIAL 1	400 NOBLE ST 500	42X8	X		2.33		W				
					SPECIAL 1	400 5TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 5TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		E				
39	31+49	23.8		X	R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S	PST	2.5	1	
40	32+35	28.8	X		R7-202	BEGIN	24X12			2		N	PST	2.5	1	
					R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36			6		N				
41	32+76	34.0	X		R1-1	STOP	24X24	X		4		W	PST	2.5	1	
					R6-1R	ONE WAY (ARROW RT)	36x12	X		3		S				MOUNT ABOVE STOP
42	32+72	29.8	X		R5-1	DO NOT ENTER	30X30			6.25		E	PST	2.5	1	
43	32+72	36.5		X	R7P-101L	NO PARKING ANY TIME (ARROW LT)	12X18	X		1.5		N	PST	2.5	1	
44	33+20	30.2	X		SPECIAL 1	400 NOBLE ST 300	42X8	X		2.33		E	PST	2.5	1	
					SPECIAL 1	300 NOBLE ST 400	42X8	X		2.33		W				MOUNT ABOVE 4TH AVE
					SPECIAL 1	400 4TH AVE 300	42X8	X		2.33		S				
					SPECIAL 1	300 4TH AVE 400	42X8	X		2.33		N				MOUNT ABOVE ONE WAY
					R1-1	STOP	30X30	X		6.25		W				
					R5-1	DO NOT ENTER	30X30	X		6.25		E				MOUNT BEHIND STOP
					R6-1R	ONE WAY (ARROW RT)	36x12	X		3		N				MOUNT ABOVE STOP SIGN
45	33+20	29.6		X	SPECIAL 1	400 NOBLE ST 300	42X8	X		2.33		E	PST	2.5	1	MOUNT ABOVE 4TH AVE
					SPECIAL 1	300 NOBLE ST 400	42X8	X		2.33		W				
					SPECIAL 1	400 4TH AVE 300	42X8	X		2.33		S				MOUNT ABOVE STOP
					SPECIAL 1	300 4TH AVE 400	42X8	X		2.33		N				
					R1-1	STOP	24X24	X		4		E				
46	33+95	27.8	X		R3-8L/S	(LT TURN & STRAIGHT ARROWS)	30X30	X		6.25		N	PST	2.5	1	
47	33+91	28.0		X	R7-202	END	24X12	X		2		S	PST	2.5	1	
					R3-9B	CENTER LANE (LT & RT TURN ARROWS)	24X36	X		6		S				
48	34+75	33.2	X		R6-1R	ONE WAY (ARROW RT)	36X12	X		3		N	PST	2.5	1	
49	36+61	49.9	X		R5-1	DO NOT ENTER	30X30	X		6.25		E	PST	2.5	1	
					R6-1L	ONE WAY (ARROW LT)	36X12	X		3		N				
50	37+17	29.2	X		R5-1	DO NOT ENTER	30X30	X		6.25		E	PST	2.5	1	
51	38+51	23.8	X		R2-1	SPEED LIMIT 25	24X30	X		5		N	PST	2.5	1	
						TOTAL SIGN AREA				432.41						



SPECIAL 1

BORDER
R=1.5"
TH=0.5"
BORDER & LEGEND: WHITE
BACKGROUND: GREEN

POST TYPE CODING:
PST = PERFORATED STEEL TUBING
TS = SQUARE STRUCTURAL STEEL TUBING

SIGN SUMMARY (3 OF 3)

STATE OF ALASKA 49TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:17 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H10	– –

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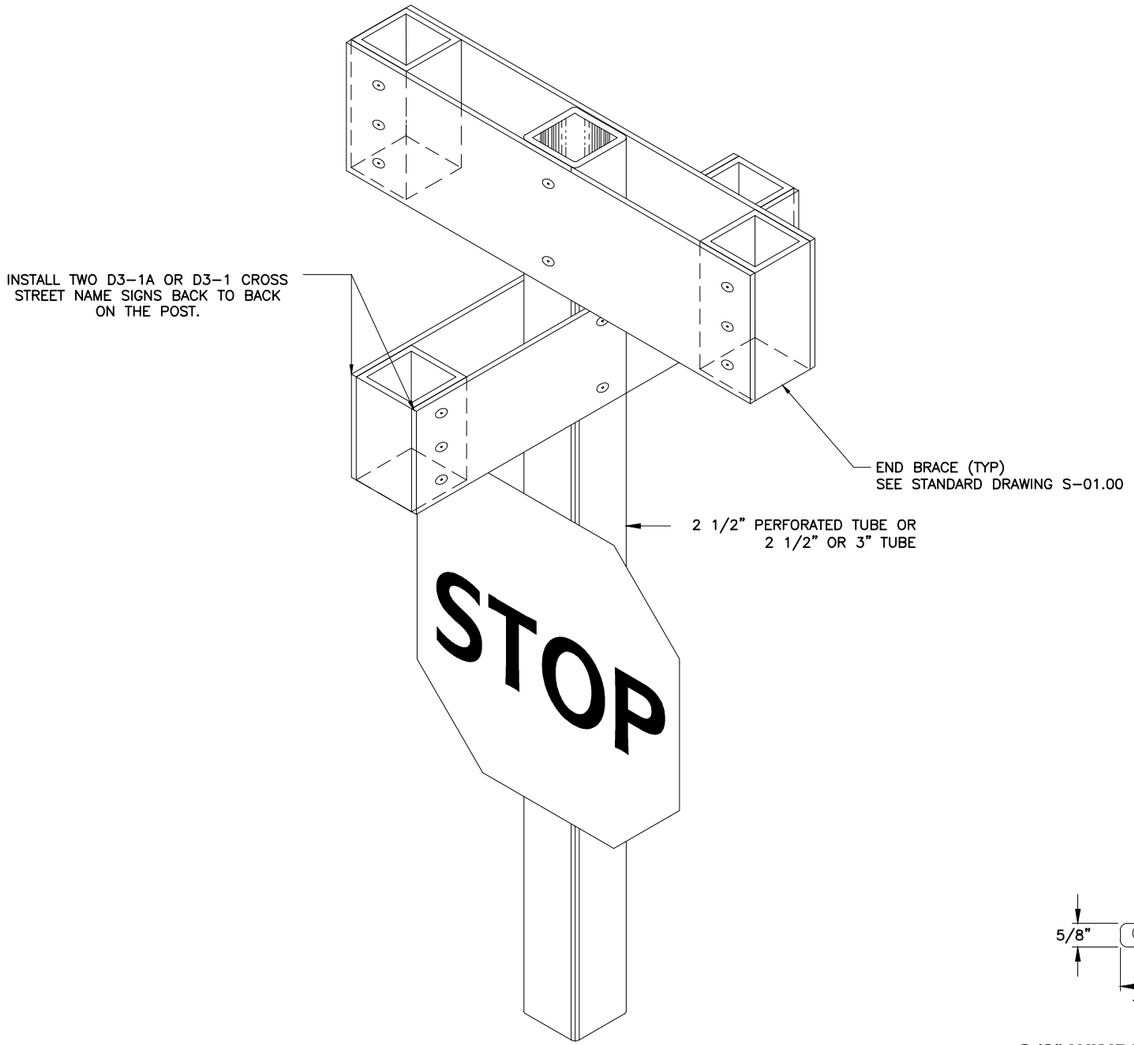
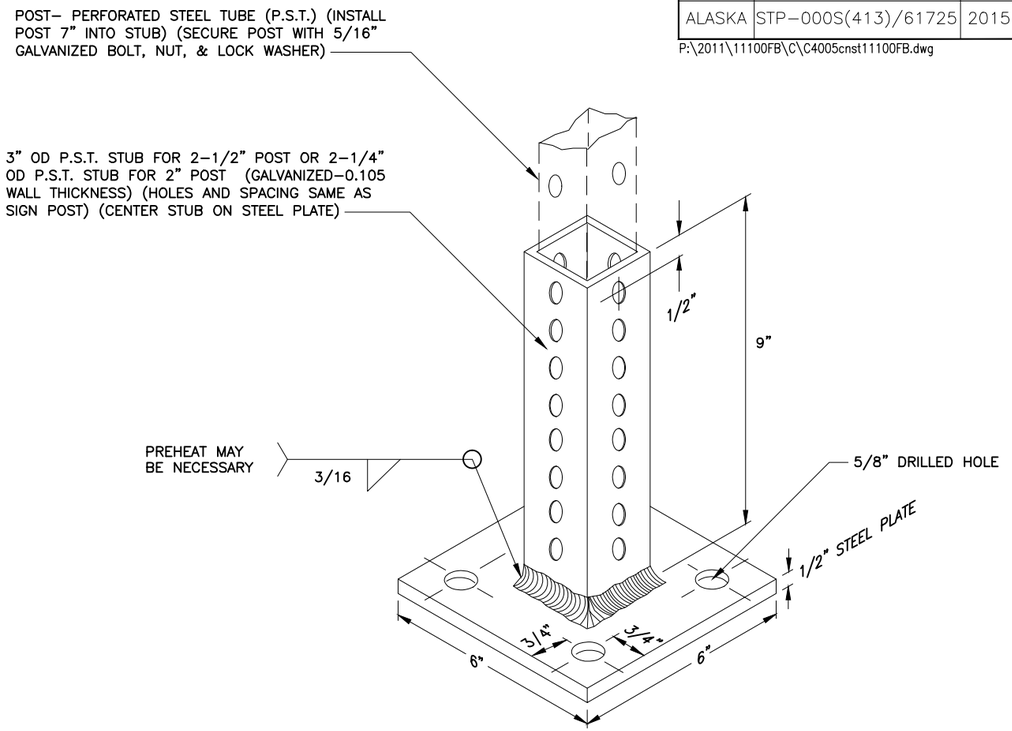
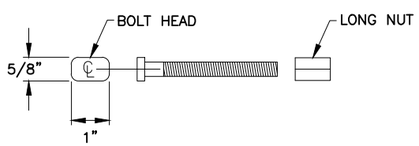


STREET NAME SIGN



SIDEWALK MOUNTING STUB FOR SIGN POSTS



3/8" WINDBEAM BOLT AND LONG NUT

FASTENER SPECIFICATION TABLE		
FASTENER	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM A 36	ASTM A 480

INSTALLATION NOTES

1. DRILL FOUR (4) 1/2" HOLES IN SIDEWALK OR CONCRETE 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" GALVANIZED BOLTS AND FLAT WASHERS.
3. DO NOT SHIM BASE, PLUMB STUB BY HEATING AT PLATE.
4. PAINT STUB AND BASE WITH ZINC RICH PAINT PRIOR TO INSTALLATION.
5. INSTALL STUBS FOR NO PARKING SIGNS AT 45° FACING TRAFFIC.

STATE OF ALASKA 49TH
MATTHEW TODD STONE
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SIGN DETAILS (1 OF 2)

Friday, December 12, 2014, 12:17 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H11	– –

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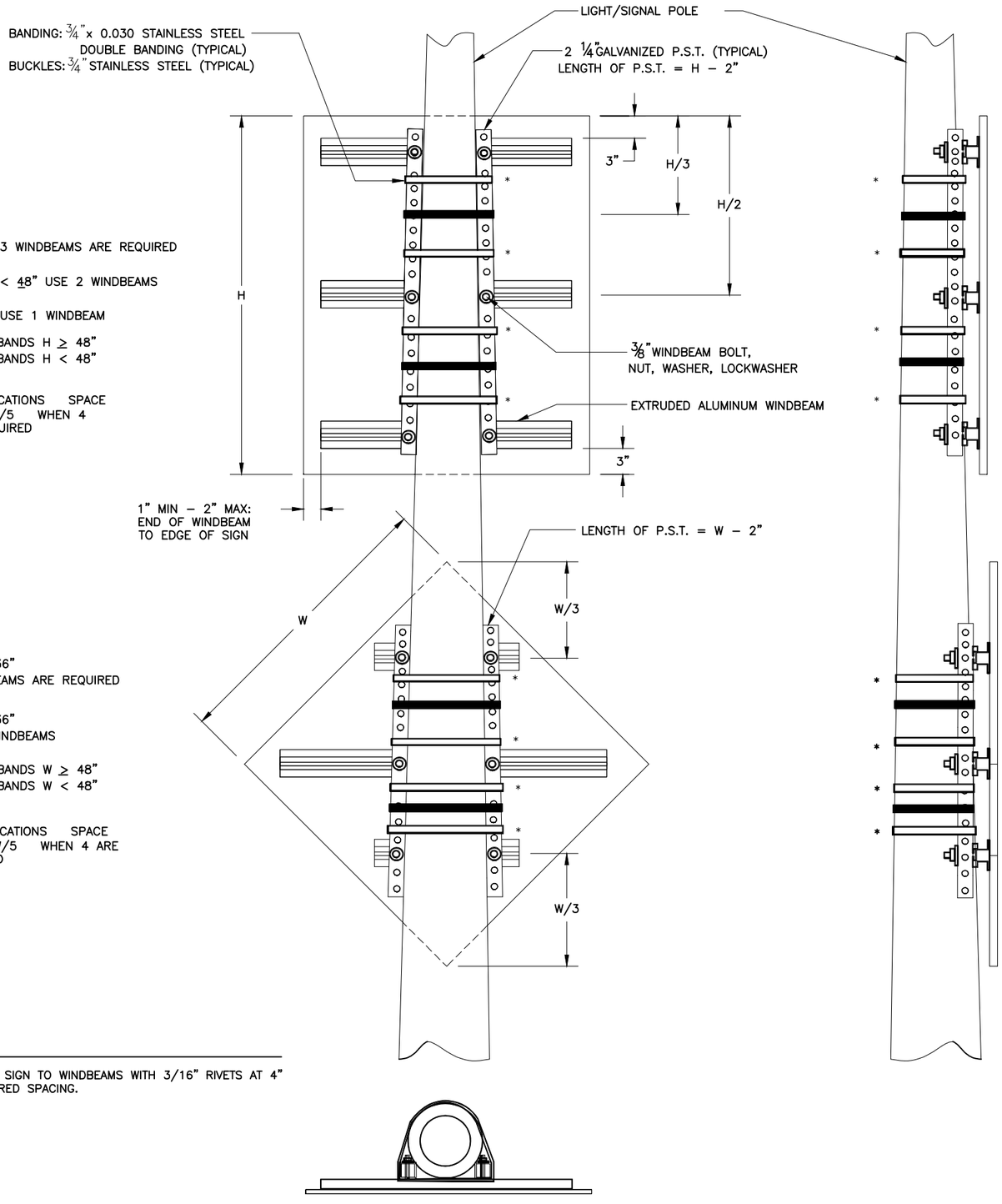


IF H > 48" 3 WINDBEAMS ARE REQUIRED

IF 15" < H < 48" USE 2 WINDBEAMS

IF H <_15" USE 1 WINDBEAM

USE 4 BANDS H ≥ 48"
USE 2 BANDS H < 48"

* BAND LOCATIONS SPACE BANDS H/5 WHEN 4 ARE REQUIRED

IF W ≥ 36"
3 WINDBEAMS ARE REQUIRED

IF W < 36"
USE 2 WINDBEAMS

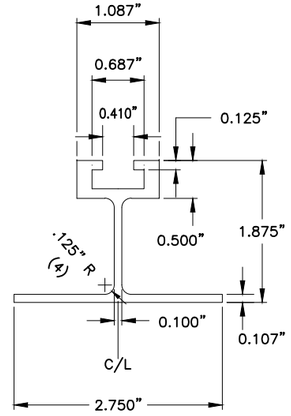
USE 4 BANDS W ≥ 48"
USE 2 BANDS W < 48"

* BAND LOCATIONS SPACE BANDS W/5 WHEN 4 ARE REQUIRED

NOTE:

1. ATTACH SIGN TO WINDBEAMS WITH 3/16" RIVETS AT 4" STAGGERED SPACING.

LIGHT / SIGNAL POLE SIGN FRAMING & MOUNTING DETAILS



NOTES:

1. ALUMINUM ALLOY 6061–T6 SHALL BE USED FOR EXTRUDED WINDBEAM AND RIVETS.
2. ATTACH SIGN TO WINDBEAM WITH 3/16" RIVETS AT 4" STAGGERED SPACING.

EXTRUDED ALUMINUM WINDBEAM

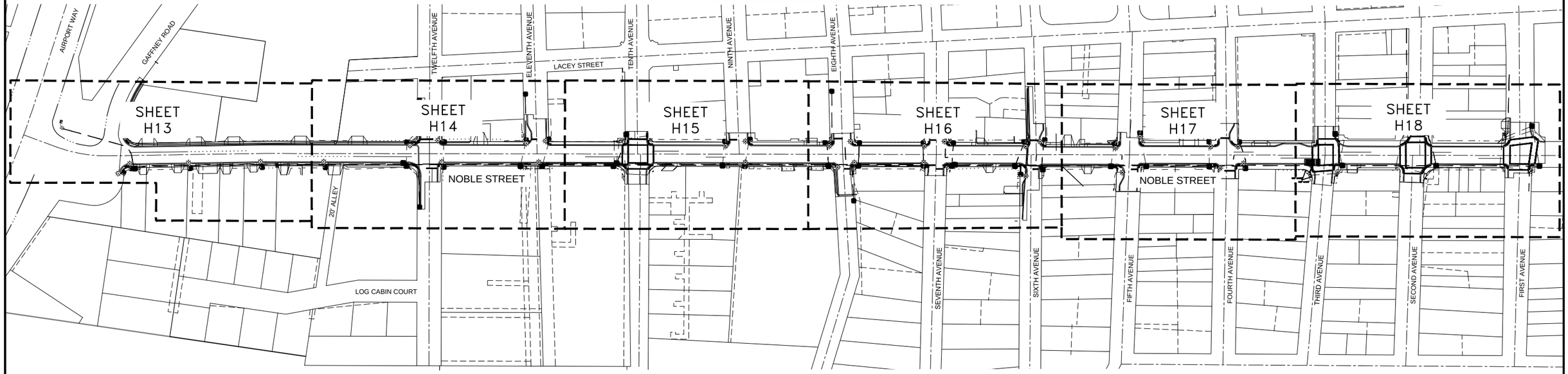
SIGN DETAILS (2 OF 2)

STATE OF ALASKA 49 TH
MATTHEW TODD STONE
CE11258
REGISTERED PROFESSIONAL ENGINEER

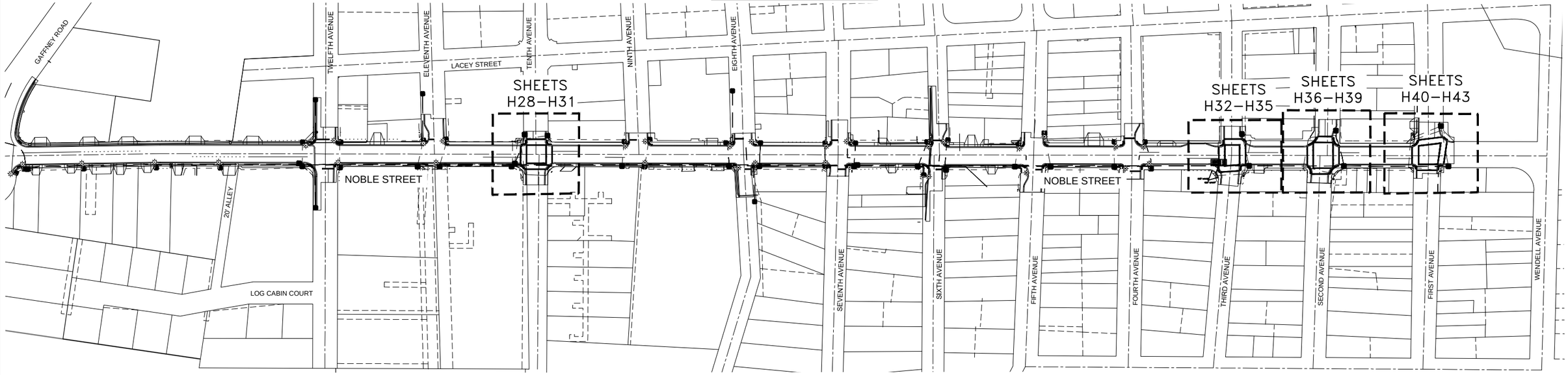
Friday, December 12, 2014, 12:17 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H12	--

LIGHTING SHEET LAYOUT



SIGNAL SHEET LAYOUT



FEET
100 50 0 100 200

SHEET LAYOUT

STATE OF ALASKA
49TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

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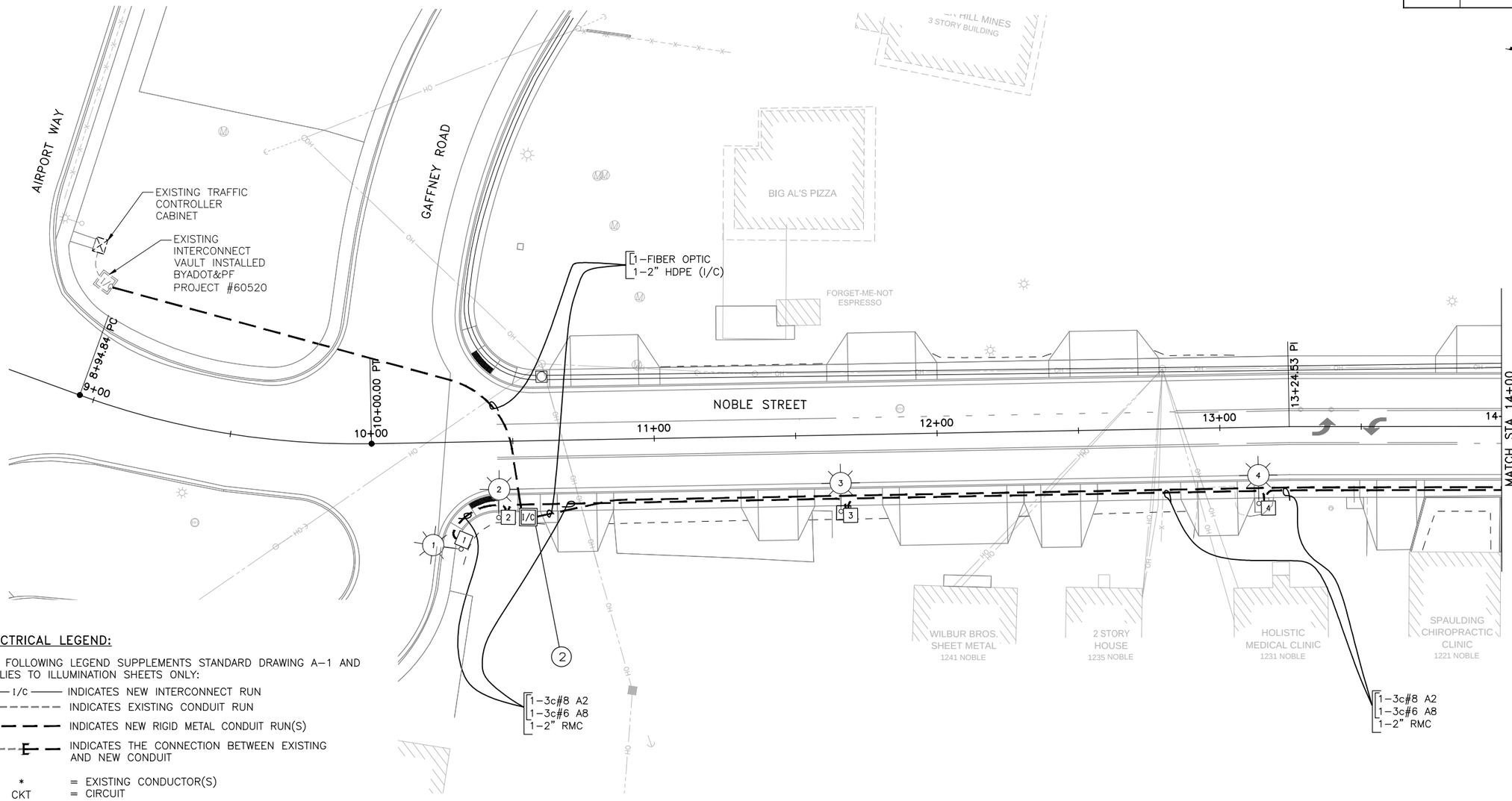
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H13	--



ELECTRICAL LEGEND:

THE FOLLOWING LEGEND SUPPLEMENTS STANDARD DRAWING A-1 AND APPLIES TO ILLUMINATION SHEETS ONLY:

- I/C — INDICATES NEW INTERCONNECT RUN
- - - - - - - - INDICATES EXISTING CONDUIT RUN
- — — — INDICATES NEW RIGID METAL CONDUIT RUN(S)
- - - - E — — INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

*	= EXISTING CONDUCTOR(S)
CKT	= CIRCUIT
EX	= EXISTING
GND	= BARE COPPER GROUND WIRE
ILL	= ILLUMINATION CONDUCTORS
JB	= JUNCTION BOX
LC	= LOAD CENTER
RMC	= RIGID METAL CONDUIT
UG	= UNDERGROUND
⟨X⟩	= CONSTRUCTION SHEET NOTES
◇	= UTILITY RISER POLE
(#)	= INTERCONNECT VAULT NUMBER

[1-3c#8] B1

- NUMBER OF INSULATED CABLES REQUIRED
- NUMBER OF CONDUCTORS(c) OR PAIRS(PR), IF OTHER THAN SINGLE CONDUCTOR
- CONDUCTOR SIZE IN AWG
- CIRCUIT TYPE:
  X# = LIGHTING (LOAD CENTER ID, CIRCUIT #)
  INT OR I/C = SIGNAL INTERCONNECT
  TW = THAW WIRE

GENERAL INTERCONNECT NOTES:

1. FIBER-OPTIC INTERCONNECT SYSTEM SHALL CONSIST OF ONE 2" HDPE CONDUIT.
2. TRANSITION HDPE CONDUIT TO RMC WHEN CROSSING UNDER ROADWAYS AMD NAMED PUBLIC APPROACHES.
3. MAINLINE FIBER-OPTIC CABLE SHALL BE 12 STRAND SINGLE-MODE FIBER, LOOSE TUBE, GEL-FREE, OUTSIDE CABLE.
4. SEE TRAFFIC SIGNAL SHEETS FIBER OPTIC INTERCONNECT CONDUIT AND CABLE REQUIREMENTS, AND ROUTING AT SIGNALIZED INTERSECTIONS.
5. SEE SECTION 662-2.06 FIBER OPTIC MANHOLES AND VAULTS FOR VAULT REQUREMENTS.

GENERAL ILLUMINATION NOTES:

1. CAUTION! RELOCATED UTILITIES ARE NOT SHOWN. SEE UTILITY SHEETS FOR LOCATIONS. EXPOSE NEARBY UTILITIES BEFORE INSTALLING POLE FOUNDATIONS TO PREVENT CONFLICTS.
2. IF GROUNDING CONDUCTORS ARE NOT SPECIFIED IN A CONDUIT, INSTALL GROUNDING CONDUCTOR IN ACCORDANCE WITH SECTION 660-3.06.
3. SEE ALSO ILLUMINATION SUMMARY TABLES AND DETAILS.
4. COORDINATE CONDUIT LOCATINO WITH SIGNALIZATION PLANS AND UTILITIES.

FEET
20 10 0 20 40

STATE OF ALASKA
249TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

ILLUMINATION PLANS

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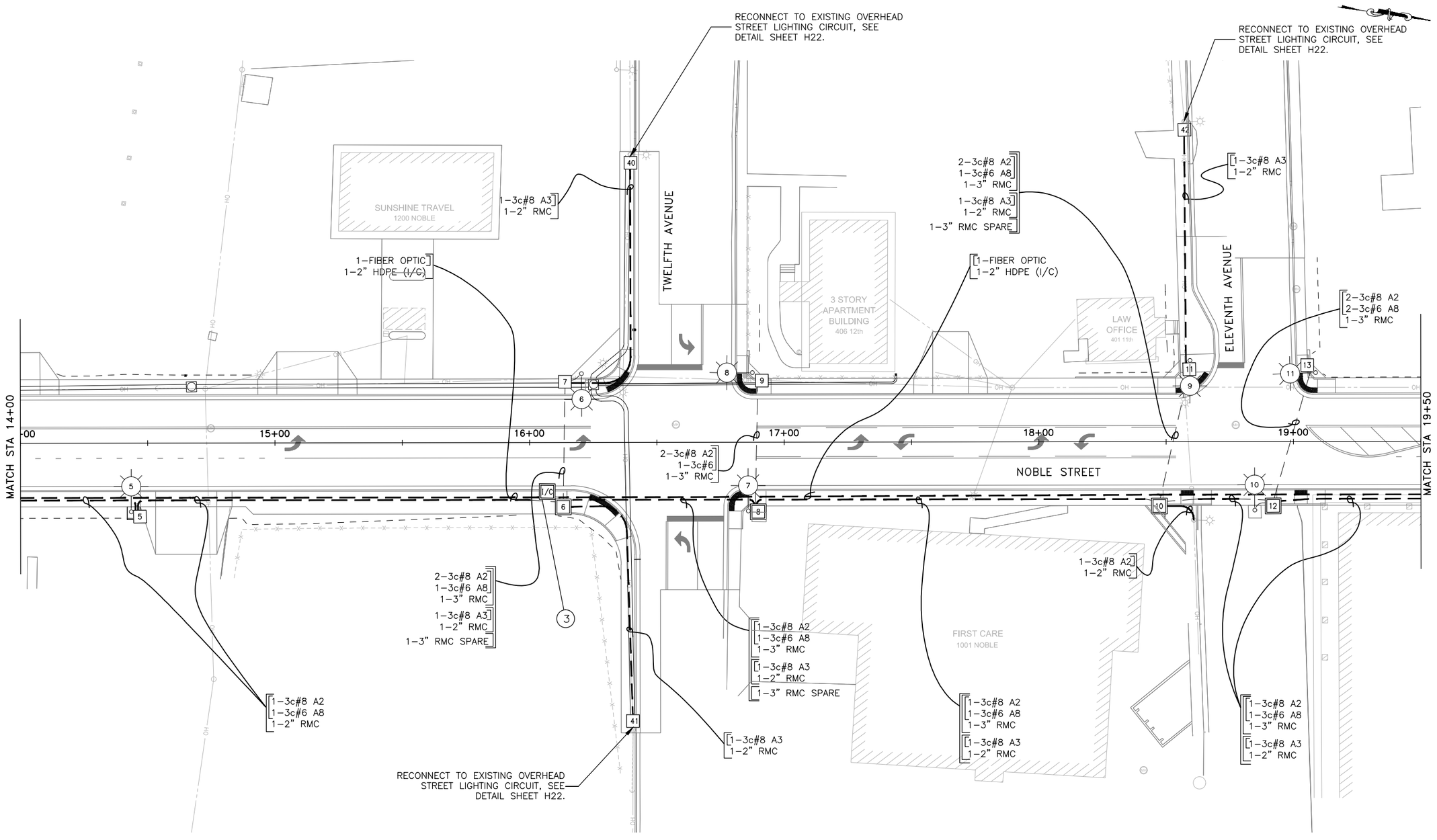
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H14	--



ILLUMINATION PLANS

STATE OF ALASKA
49TH
SUBMITTAL
2/12/2014
JOHNSON
ENGINEER
8705
REGISTERED PROFESSIONAL ENGINEER

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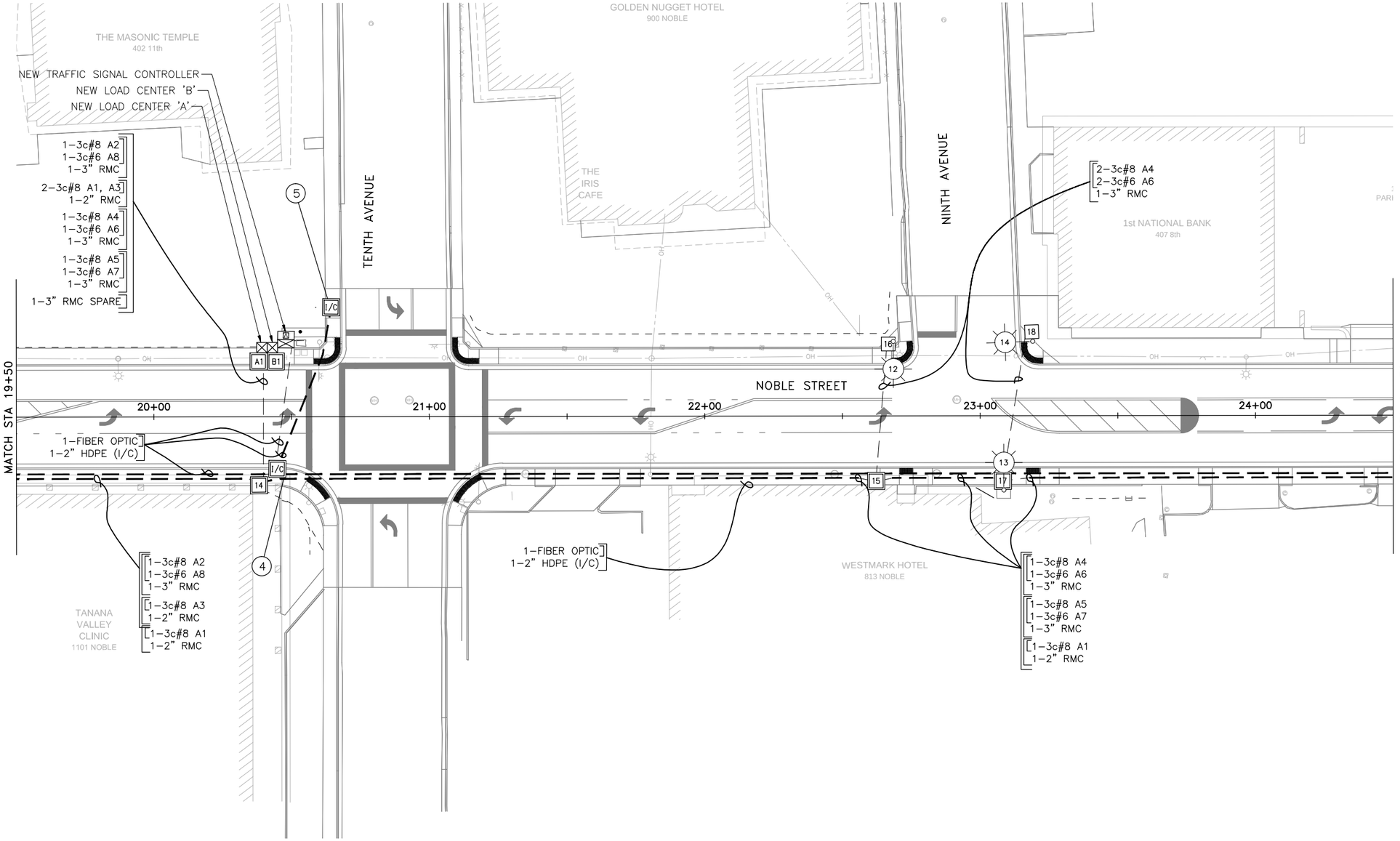
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H15	--



ILLUMINATION PLANS

STATE OF ALASKA
49TH
SUBMITTAL
12/2/2014
JOHNSON
ENGINEER
8706
PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H16	--

RECONNECT TO EXISTING OVERHEAD STREET LIGHTING CIRCUIT, SEE DETAIL SHEET H22.

1-3c#8 A1
1-2" RMC

1-3c#8
1-2" RMC

2-3c#8 A4
2-3c#6 A6
1-3" RMC

1-3c#8 A1
1-2" RMC

1-3c#8
1-2" RMC

2-3c#8 A4
2-3c#6 A6
1-3" RMC

2-3c#8 A4
2-3c#6 A6
1-3" RMC

2-3c#8 A5
2-3c#6 A7
1-3" RMC

1-3c#8 A4
1-3c#6 A6
1-3" RMC

EIGHTH AVENUE

SEVENTH AVENUE

SIXTH AVENUE

NOBLE STREET

1st FLOOR
KING GARAGE

SOUTHALL MANOR
401 7th

RECORDING STUDIO
412 7th

LESLIE'S
SALON
408 7th

2 STORY
HOUSE
402 7th

GARAGE

GOLDEN HEART BUILDING
600 NOBLE

LOG
CABIN
510 NOBLE

MATCH STA 24+50

25+00

26+00

27+00

28+00

29+00

30+00

MATCH STA 30+00

1-FIBER OPTIC
1-2" HDPE (I/C)

1-3c#8 A4
1-3c#6 A6
1-3" RMC

1-3c#8 A5
1-3c#6 A7
1-3" RMC

1-3c#8
1-2" RMC

1-3" RMC SPARE

1-3c#8 A1
1-2" RMC

RECONNECT TO EXISTING OVERHEAD STREET LIGHTING CIRCUIT, SEE DETAIL SHEET H22.

2-3c#8 A5
2-3c#6 A7
1-3" RMC

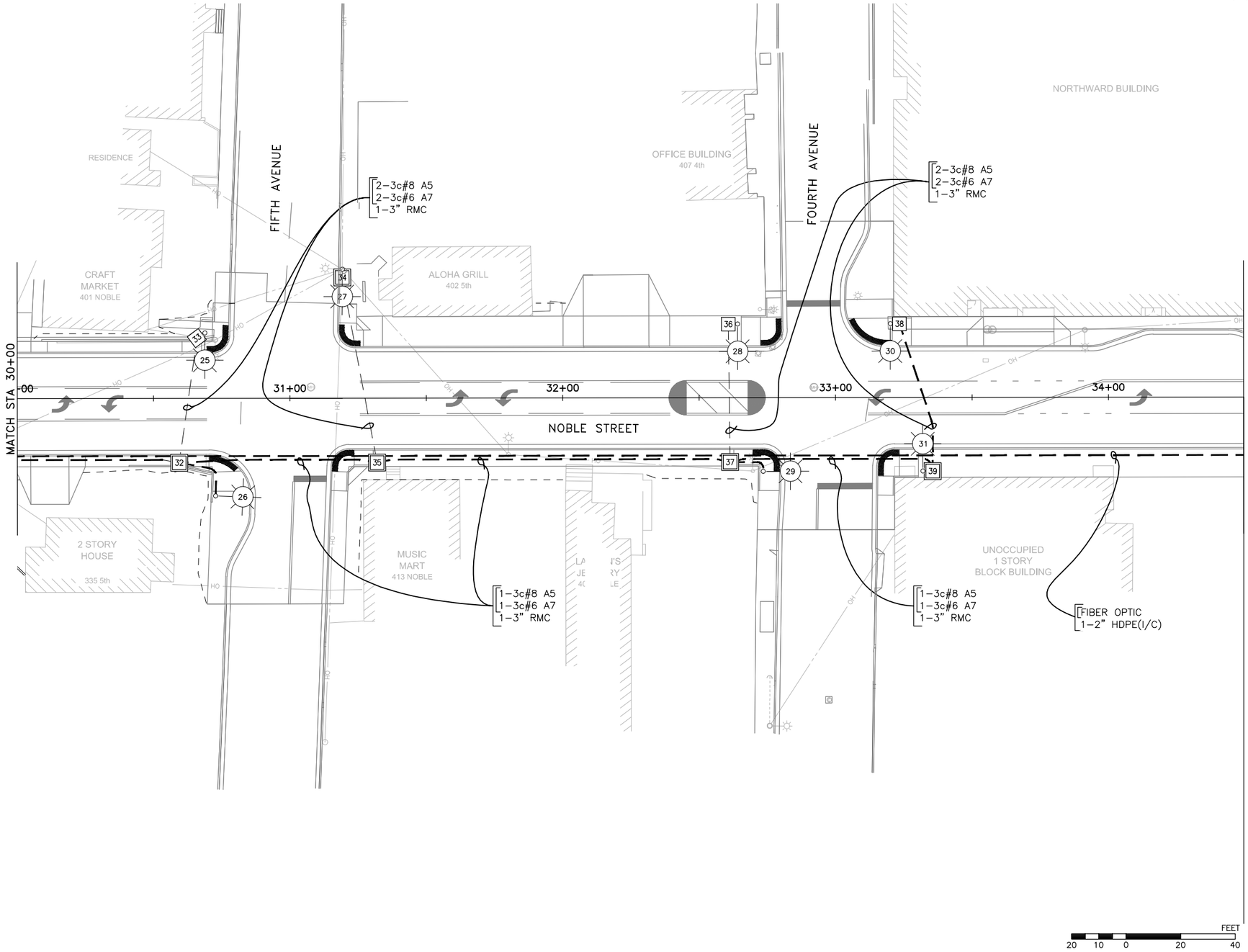
FEET
20 10 0 20 40

ILLUMINATION PLANS

STATE OF ALASKA
49TH
SUBMITTAL
2/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble Illumination Plans PS 04-14-2014

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H17	--



ILLUMINATION PLANS

STATE OF ALASKA
49TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H18	--

RECONNECT TO EXISTING OVERHEAD STREET LIGHTING CIRCUIT, SEE DETAIL SHEET H22.

THIRD AVENUE

CITY PARKING GARAGE

SECOND AVENUE

ELBOW ROOM

FIRST AVENUE

COURT HOUSE

RECONNECT TO EXISTING OVERHEAD STREET LIGHTING CIRCUIT, SEE DETAIL SHEET H22.

7

1-FIBER OPTIC
1-2" HDPE (I/C)

9

NEW SIGNAL LOAD CENTER 'E'

NEW TRAFFIC SIGNAL CONTROLLER

11

1-FIBER OPTIC
1-2" HDPE (I/C)

MATCH STA 34+50

35+00

36+00

NOBLE STREET

37+00

38+00

39+00

8

NEW TRAFFIC SIGNAL CONTROLLER

NEW SIGNAL LOAD CENTER 'C'

10

1-FIBER OPTIC
1-2" HDPE (I/C)

NEW TRAFFIC SIGNAL CONTROLLER

NEW SIGNAL LOAD CENTER 'D'

12

1-FIBER OPTIC
1-2" HDPE (I/C)

RECONNECT TO EXISTING OVERHEAD STREET LIGHTING CIRCUIT, SEE DETAIL SHEET H22.

GOLDEN TOWERS

FEET
20 10 0 20 40

ILLUMINATION PLANS

STATE OF ALASKA
49TH
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H19	--

FIBER-OPTIC INTERCONNECT VAULT SCHEDULE

I/C VAULT NUMBER	LOCATION STATION	LOCATION OFFSET	TYPE
1	8+95	LT	PRESERVE EXISTING
2	10+55	RT	30" X 48"
3	16+07	RT	30" X 48"
4	20+45	RT	30" X 48"
5	20+64	LT	30" X 48"
6	27+40	RT	30" X 48"
7	35+20	LT	30" X 48"
8	35+35	RT	30" X 48"
9	37+10	LT	30" X 48"
10	37+27	RT	30" X 48"
11	39+24	LT	30" X 48"
12	39+39	RT	30" X 48"

LIGHTING JUNCTION BOX SUMMARY

NO.	STATION	LOCATION LT.	LOCATION RT.	TYPE	REMARKS
1	10+32		X	IA	
2	10+48		X	IA	
3	11+69		X	IA	
4	13+17		X	IA	
5	14+47		X	IA	
6	16+13		X	II	
7	16+14	X		IA	
8	16+90		X	II	
9	16+91	X		IA	
10	18+47		X	II	
11	18+59	X		IA	
12	18+92		X	II	
13	18+05	X		IA	
14	20+38		X	II	
15	22+62		X	II	
16	22+67	X		IA	
17	23+03		X	II	
18	23+19	X		IA	
19	24+73	X		IA	
20	24+80		X	II	
21	25+41		X	II	
22	25+43	X		IA	
23	26+74	X		IA	
24	26+75		X	II	
25	27+33		X	II	
26	27+36	X		IA	
27	28+62		X	II	
28	28+75		X	IA	
29	28+81	X		IA	
30	29+20		X	II	
31	28+24	X		IA	
32	30+59		X	II	
33	30+66	X		IA	
34	31+19	X		II	
35	31+32		X	II	
36	32+61	X		IA	
37	32+61		X	II	
38	33+23	X		IA	
39	33+36		X	II	
40	16+40	X		IA	12TH AVE., LOCATE ADJACENT TO UTILITY POLE
41	16+41		X	IA	12TH AVE., LOCATE ADJACENT TO UTILITY POLE
42	18+57	X		IA	11TH AVE., LOCATE ADJACENT TO UTILITY POLE
43	24+86	X		IA	8TH AVE., LOCATE ADJACENT TO UTILITY POLE
44	25+32		X	IA	8TH AVE., LOCATE ADJACENT TO UTILITY POLE

LIGHT POLE SUMMARY

POLE NO.	STATION	LOCATION LT.	LOCATION RT.	LAMP WATTAGE	LOAD CENTER	CIRCUIT	LUMINAIRE ARM LENGTH (FEET)	REMARKS
1	10+31		X	160	A	A1	8	
2	10+45		X	160	A	A1	8	
3	11+66		X	160	A	A1	8	
4	13+13		X	160	A	A1	8	
5	14+44		X	160	A	A1	8	
6	16+20	X		160	A	A1	8	
7	16+86		X	160	A	A1	8	
8	16+88	X		160	A	A1	8	
9	18+59	X		160	A	A1	8	MOUNT ON UTILITY POLE, SEE SHEET H26 FOR DETAIL
10	18+85		X	160	A	A1	8	
11	18+09	X		160	A	A1	8	
12	22+68	X		160	A	A3	8	
13	23+08		X	160	A	A3	8	
14	23+19	X		160	A	A3	8	
15	24+81	X		160	A	A3	8	
16	24+88		X	160	A	A3	8	
17	25+33		X	160	A	A3	8	
18	25+35	X		160	A	A3	8	
19	26+75		X	160	A	A3	8	MOUNT ON UTILITY POLE, SEE SHEET H26 FOR DETAIL
20	26+75	X		160	A	A3	8	MOUNT ON UTILITY POLE, SEE SHEET H26 FOR DETAIL
21	27+28	X		160	A	A3	8	
22	28+75		X	160	A	A3	8	
23	28+84	X		160	A	A3	8	
24	29+24	X		160	A	A3	8	
25	30+69	X		160	A	A3	8	
26	30+73		X	160	A	A3	8	
27	31+19	X		160	A	A3	8	MOUNT ON UTILITY POLE, SEE SHEET H26 FOR DETAIL
28	32+64	X		160	A	A3	8	
29	32+73		X	160	A	A3	8	
30	33+21	X		160	A	A3	8	
31	33+32		X	160	A	A3	8	

ILLUMINATION SUMMARY

STATE OF ALASKA 49TH SUBMITTAL 2/12/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

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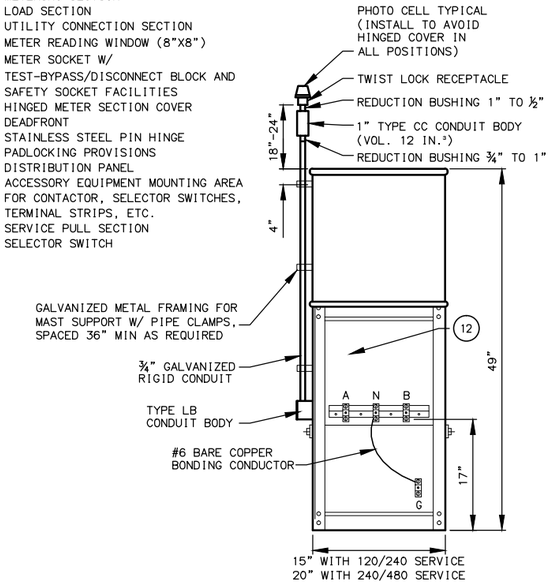
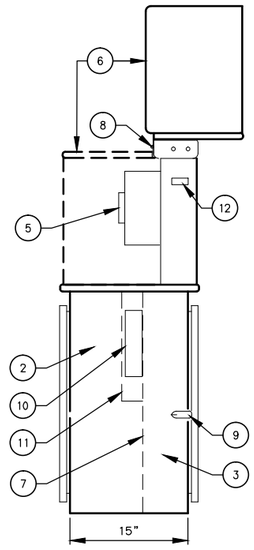
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H20	--

EQUIPMENT LEGEND/DESCRIPTION

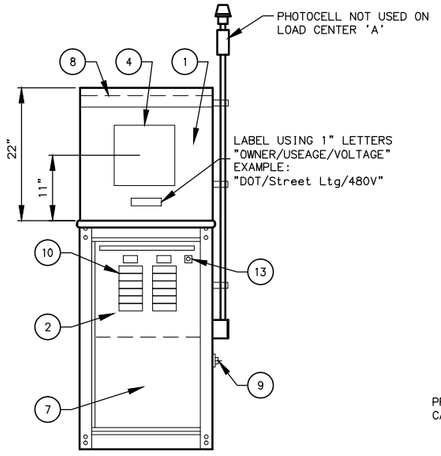
1. METERING SECTION
2. LOAD SECTION
3. UTILITY CONNECTION SECTION
4. METER READING WINDOW (8"X8")
5. METER SOCKET W/ TEST-BYPASS/DISCONNECT BLOCK AND SAFETY SOCKET FACILITIES
6. HINGED METER SECTION COVER
7. DEADFRONT
8. STAINLESS STEEL PIN HINGE
9. PADLOCKING PROVISIONS
10. DISTRIBUTION PANEL
11. ACCESSORY EQUIPMENT MOUNTING AREA FOR CONTACTOR, SELECTOR SWITCHES, TERMINAL STRIPS, ETC.
12. SERVICE PULL SECTION
13. SELECTOR SWITCH



REAR VIEW
(W/ DOOR REMOVED)

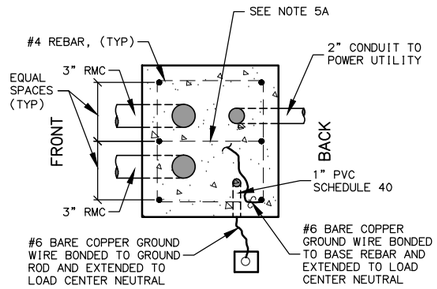


RIGHT SIDE VIEW
(W/ METER SECTION OPEN)

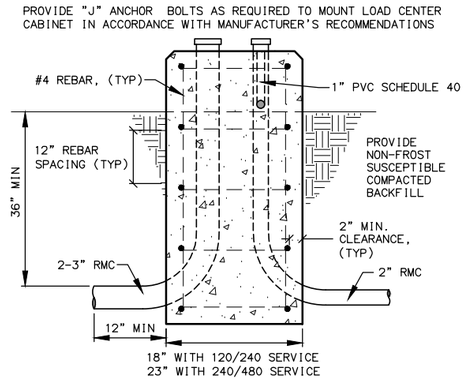


FRONT VIEW
(W/ DOOR REMOVED)

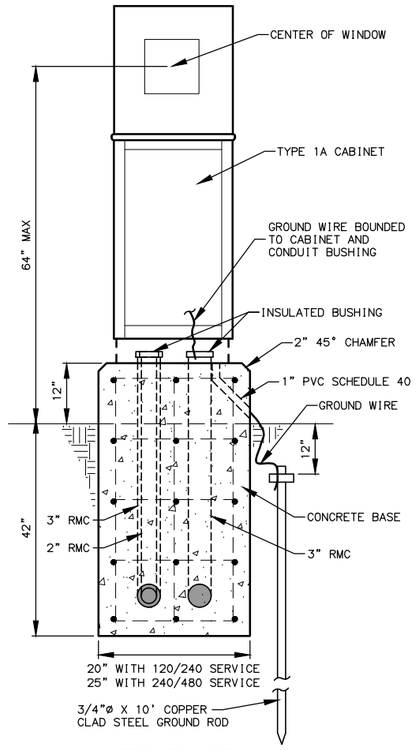
TYPE 1A CABINET DETAILS



TOP VIEW

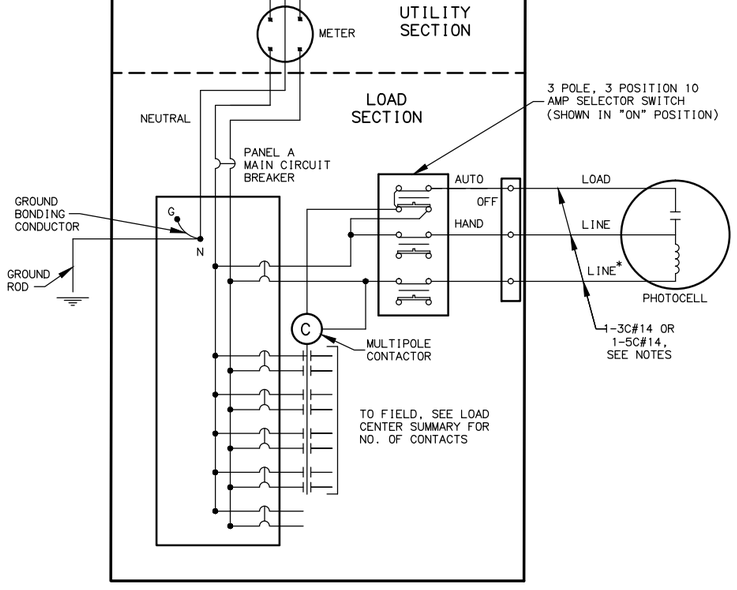


RIGHT SIDE VIEW



FRONT VIEW

FOUNDATION DETAILS



LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING

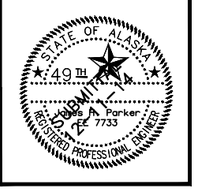
* GROUNDED NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE PHASE OR 277/480 VOLT THREE-PHASE; AND LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

WIRING NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, AND THE NAME OF THE SERVING UTILITY.
2. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS (MYERS TYPE), WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
5. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALLED BY THE CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END: MARK THE BURIED END WITH A 2"X 6" STAKE. SEE THE LOAD CENTER SUMMARIES FOR THE FOLLOWING INFORMATION.
   A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
   B. WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
   C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
6. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
7. SIZE THE DISTRIBUTION PANEL TO ACCOMMODATE THE CIRCUITS SHOWN ON THE LOAD CENTER SUMMARIES AND SPARE CIRCUITS AS DEFINED IN NOTE 1.
8. SEPARATE THE MAIN CIRCUIT BREAKER FROM THE DISTRIBUTION PANEL.
9. MOUNT PHOTOCELL RECEPTACLE TO ½" CONDUIT WITH SILICONE SEALANT. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE TYPE CC CONDUIT BODY WHERE THE SPLICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE.

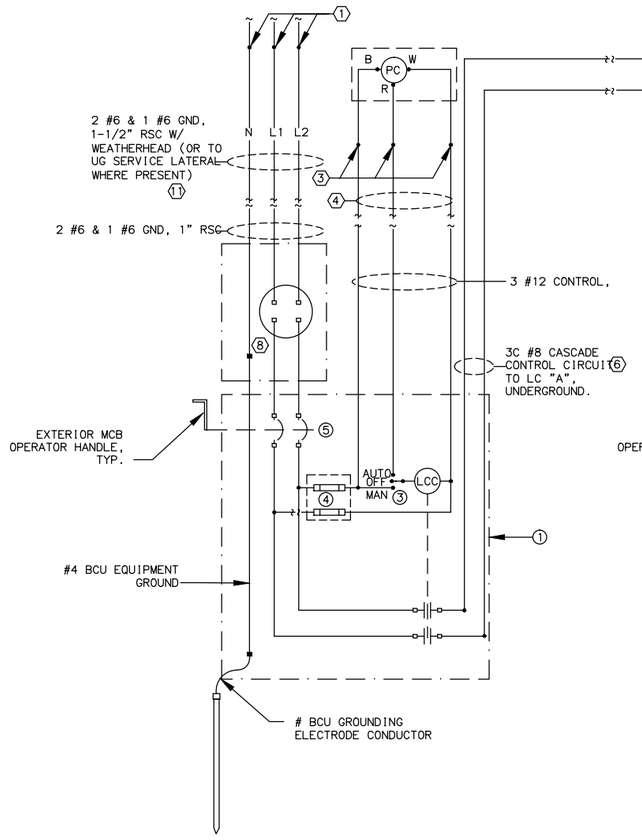
FOUNDATION NOTES:

1. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING, WHEN ADJACENT TO A SIDEWALK OR PATHWAY.
2. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
3. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "A" CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
4. IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.

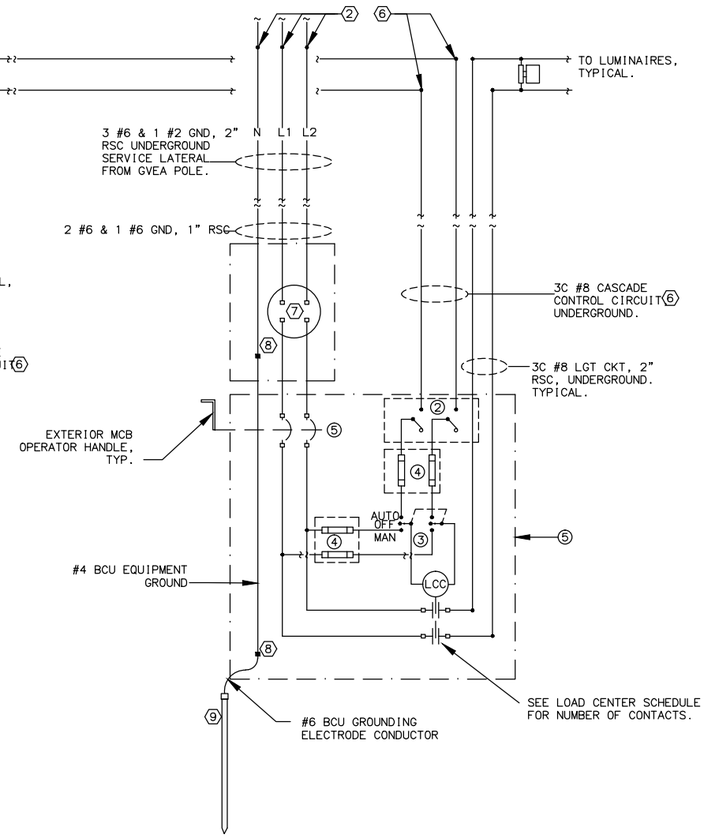


LOAD CENTERS 'B", 'C', 'D' AND 'E' TYPE 1A LOAD CENTER DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H21	--



'MASTER' LOAD CENTER (PHOTO SWITCH CONTROL)
EXISTING MPC #1 AT 8TH & NOBLE
SHOWN FOR INFORMATIONAL PURPOSES ONLY



NEW 'CASCADE' CONTROLLED LOAD CENTER "A"
AT 10TH AND NOBLE'
TYPE 1A LOAD CENTER, SEE SHEET H9 FOR DETAILS

LIGHTING CONTROL COMPONENT LIST:

1. LTG CONTACTOR, 30 AMP, COMBINATION TYPE, SQUARE D CLASS 8903, SPC63, FORM C, F4, Y75, NEMA TYPE 3R ENCLOSURE, 240V, 1 PHASE, 2-WIRE.
2. 2-POLE SWITCH ASSEMBLY INTERLOCKED W/ MCB OPERATOR HANDLE - SQUARE D FORM Y75.
3. HOA SWITCH, 3 POSITION, CLASS 9001, TYPE SK, SQUARE D, DPDT. HOA SWITCH SHALL BE MOUNTED INSIDE DOOR (NOT ACCESSIBLE W/ DOOR CLOSED).
4. CONTROL FUSE BLOCK, 2- POLE FB2211 SQUARE D, 5 AMP AF, OR PROVIDE FUSE RATING AS RECOMMENDED BY MANUFACTURER.
5. MAIN CIRCUIT BREAKER, 100/2, OPERATED W/ EXTERIOR LEVER. PROVIDE OPERATING LEVER W/ PADLOCK FEATURE AND INTERLOCKED DOOR LATCH SO THAT DOOR CANNOT BE OPENED UNLESS CIRCUIT BREAKER IS IN OPEN POSITION. PROVIDE FEATURE TO DEFEAT THE DOOR INTERLOCK SO THE MCB CAN BE CLOSED AND CONTACTOR OPERATED BY AUTHORIZED PERSONNEL AFTER THE DOOR IS OPENED.

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR FIELD INVESTIGATION AND VERIFICATION. WHERE ALTERNATIVE CONNECTIONS AND INSTALLATIONS ARE REQUIRED, SUCH AS UNDERGROUND SERVICE AND LGT CIRCUITS, CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL HARDWARE AND EQUIPMENT REQUIRED AT EACH LOCATION W/O ADDITIONAL COST TO THE PROJECT.
2. NOTIFY THE ENGINEER IF EXISTING CONDITIONS VARY FROM THOSE ANTICIPATED IN THE PLAN.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ PLANS, SPECIFICATIONS, AND GOLDEN VALLEY ELECTRIC ASSOCIATION (GVEA) REQUIREMENTS, PHONE (907)452-1151.
4. WHERE PLANS CONFLICT W/ GVEA REQUIREMENTS, GVEA REQUIREMENTS TAKE PRECEDENCE.
5. COORDINATE AND SCHEDULE ALL OUTAGES W/ PROJECT ENGINEER 72 HOURS IN ADVANCE.
6. DISCONNECT AND REMOVE WEATHERHEAD, METER SOCKET, CONTROLS AND WIRING ASSOCIATED W/ STREET LTG LOAD CENTERS.
7. UNLESS OTHERWISE NOTED, XFMR SECONDARY CONDUCTORS, STREET LTG CKTS, AND ASSOCIATED ATTACHMENT HARDWARE ARE EXISTING TO REMAIN.
8. PROVIDE MINIMUM CLEARANCES BETWEEN POLE AND ALL POLE MTD EQUIPMENT IN ACCORDANCE W/ PLAN AND GVEA REQUIREMENTS.
9. MOUNT EQUIPMENT ON QUADRANT OF POLE AS NOTED ON THE LC LOCATION MAPS. ASSURE THAT SELECTED EQUIPMENT MOUNTING AVOIDS CONFLICTS AND HAZARDS TO SIDEWALKS AND TRAFFIC COORDINATE W/ EXISTING POLE MTD EQUIPMENT.
10. THE PURPOSE OF THE CONTROL DIAGRAMS IS TO ESTABLISH CONTROL FUNCTION. CONTROLS OF SAME FUNCTIONALITY AND HAVING PROPER THIRD PARTY LISTING ARE ACCEPTABLE AS APPROVED BY THE ENGINEER.
11. MANUFACTURE NAMES, TYPES AND CATALOG NUMBERS, WHERE LISTED, ARE INTENDED TO ESTABLISH DESIGN BASIS AND QUALITY. LIKE PRODUCTS OF SAME OR DIFFERENT MANUFACTURER ARE ACCEPTABLE AS APPROVED BY THE ENGINEER
12. EACH LC SHOWN ON THE DRAWINGS IS IDENTIFIED AS EITHER A "MASTER LC" OR "CASCADE CL". A "MASTER" LC IS CONTROLLED DIRECTLY BY PHOTO SWITCH. A "CASCADE" LC IS CONTROLLED INDIRECTLY FROM AN ADJACENT LTG CKT.

DRAWING KEY NOTES:

1. EXISTING SECONDARY POWER CIRCUIT.
2. NEW SECONDARY POWER CIRCUIT FROM GVEA.
3. CONNECTIONS TO EXISTING PHOTOCELL.
4. EXISTING 1/2" RSC, W/3#12 CONDUCTORS TO CONNECT PHOTOSWITCH.
5. NEW LOAD CENTER "A".
6. NEW "CASCADE" CONTROL CONNECTIONS FROM MPC#1. ONE CONDUCTOR IS A SPARE.
7. NEW METER SOCKET.
8. EQUIPMENT GROUNDING LUG.
9. CONNECTION TO NEW GROUNDING ELECTRODE: EXOTHERMIC WELD OR IRREVERSIBLE COMPRESSION CONNECTOR TO NEW 5/8" X 8' COPPER CLAD STEEL DRIVEN GROUND ROD.

LOAD CENTER 'A" LOAD CENTER WIRING DIAGRAM

STATE OF ALASKA 49TH SUBMITTED John A. Parker 7733 REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H22	--

SUMMARY OF LOAD CENTER: A

LOAD CENTER TYPE	1A
SERVING UTILITY	GVEA
SERVICE CONDUIT SIZE	2" RIGID METAL CONDUIT
LOCATION DATA	
LOAD CENTER	XX+XX
POWER SOURCE:	UNDERGROUND
PHOTOELECTRIC CONTROL	NO, CASCADE CONTROLLED
SERVICE VOLTAGE	1 PHASE 3 WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET?	YES
MAIN BREAKER A:	240 VOLT, 2 POLE, 100 AMPERES
CONTACTOR A:	2 EACH, 300 VOLT, 6 POLE, 30 AM

PANEL A

CIRCUIT NUMBER	DESCRIPTION 120/240 V	KVA LOAD	BREAKERS AMPS	BREAKERS POLES
BA1	LIGHTING CONTROL	0.10	15.00	2.00
BA2	STREET LIGHTING: NOBLE SOUTH OF LOAD CENTER AND EAST 11TH AVE	1.14	20.00	2.00
BA3	STREET LIGHTING: 12TH, WEST 11TH, LOG CABIN	1.71	20.00	2.00
BA4	STREET LIGHTING: NOBLE BETWEEN 9TH AVE AND 7TH AVE, 7TH AVE	1.90	20.00	2.00
BA5	STREET LIGHTING: NOBLE & BETWEEN 4TH AVE AND 6TH AVE	1.26	20.00	2.00
BA6	RECEPTACLES: 10TH AVE TO 7TH AVE	4.68	30.00	2.00
BA7	RECEPTACLES: 6TH AVE TO 4TH AVE	3.60	30.00	2.00
BA8	RECEPTACLES: 11TH AVE TO GAFFNEY	1.98	20.00	2.00
BA9	SPARE		20.00	2.00
BA10	SPARE		20.00	2.00
TOTAL KVA LOAD PANEL - A		16.37	68.19	

STREET LIGHTING LOAD CENTER "A"

SUMMARY OF LOAD CENTER: B

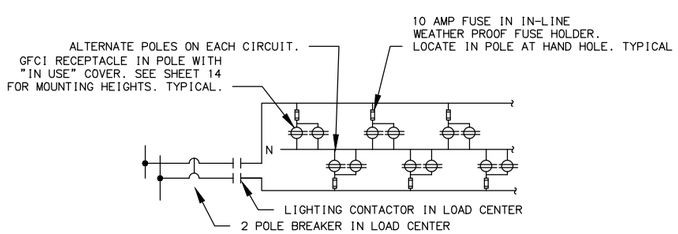
LOAD CENTER TYPE	1A
SERVING UTILITY	GVEA
SERVICE CONDUIT SIZE	RIGID METAL CONDUIT
LOCATION DATA	
LOAD CENTER	X
POWER SOURCE:	UNDERGROUND
PHOTOELECTRIC CONTROL	YES
SERVICE VOLTAGE	1 PHASE 3 WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET?	YES
MAIN BREAKER A:	240 VOLT, 2 POLE, 100 AMPERES
CONTACTOR A:	300 VOLT, 4 POLE, 30 AMPERES

PANEL B

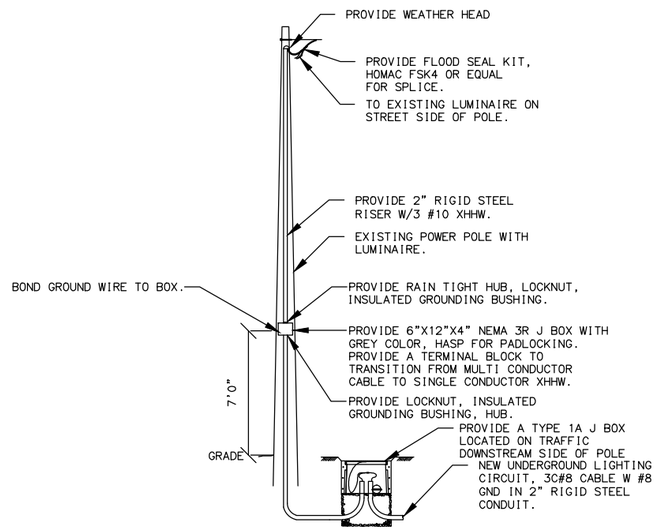
CIRCUIT NUMBER	DESCRIPTION 240/480 V	KVA LOAD	BREAKERS AMPS	BREAKERS POLES
BA1	LIGHTING CONTROL	0.1	15	2
BA2	TERSECTION LIGHTIN	0.4	20	2
BA3	TRAFFIC CONTROL	3	30	1
BA4	RECEPTACLES, INTERSECTION	1.08	20	2
BA5	SPARE		20	2
BA6	SPARE		20	2
BA7	SPARE		20	2
BA8	SPARE		20	2
TOTAL KVA LOAD PANEL - B		4.58	19.08	

TRAFFIC CONTROLLER AND INTERSECTION LIGHTING LOAD CENTER

(TYPICAL FOR B, C, D AND E)



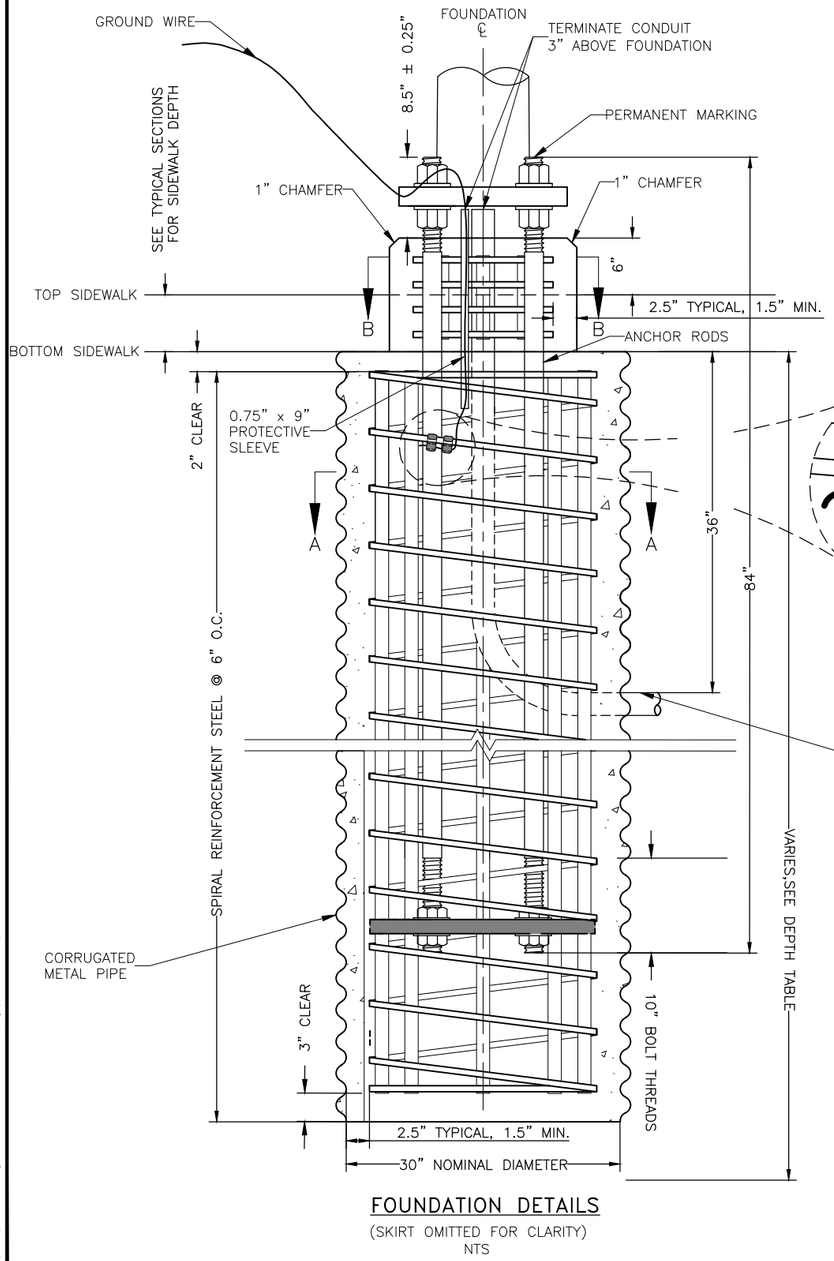
POLE MOUNTED RECEPTACLE WIRING DIAGRAM



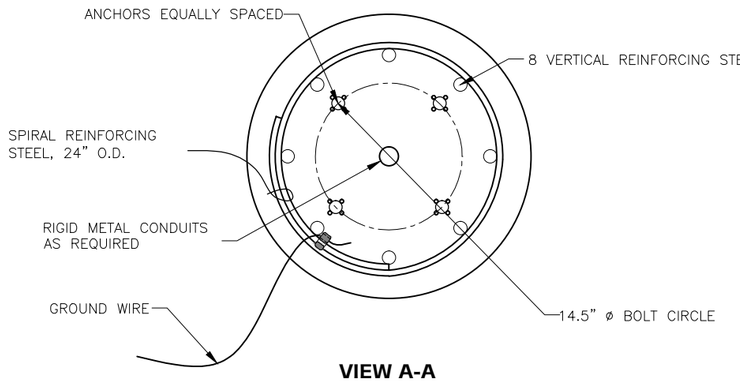
TYPICAL TRANSITION BETWEEN AERIAL & UNDERGROUND LIGHTING CIRCUIT

LOAD CENTER SCHEDULES AND DETAILS

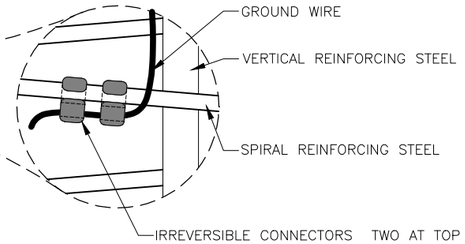
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H23	--

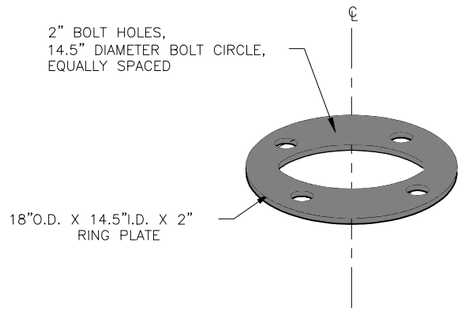


FOUNDATION DETAILS
(SKIRT OMITTED FOR CLARITY)
NTS

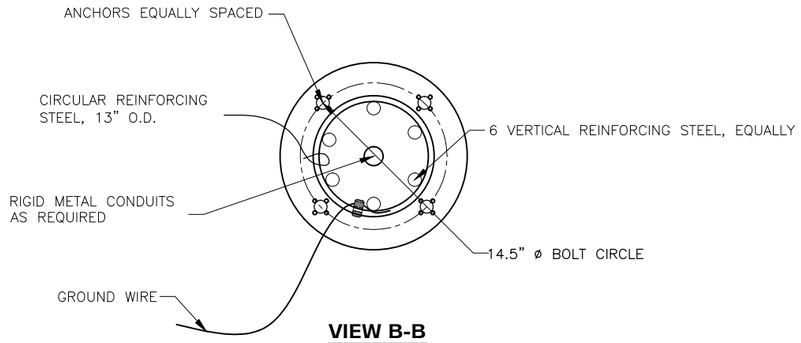


VIEW A-A
NTS





RING PLATE DETAILS
NTS



VIEW B-B
NTS

NOTES:

1. THIS DETAIL MODIFIES STANDARD DETAIL L-30.10.

MATERIAL REQUIREMENTS

ANCHOR RODS 2" X 96"	ASTM F1554 S2, S3, & S5	GR 105
FASTNERS, WASHERS	AASHTO M293	
FASTNERS, NUTS	AASHTO M292	
FINISH, ANCHOR RODS & FASTNERS	AASHTO M232	
RING PLATE	AASHTO M270	GR 36

DEPTH TABLE

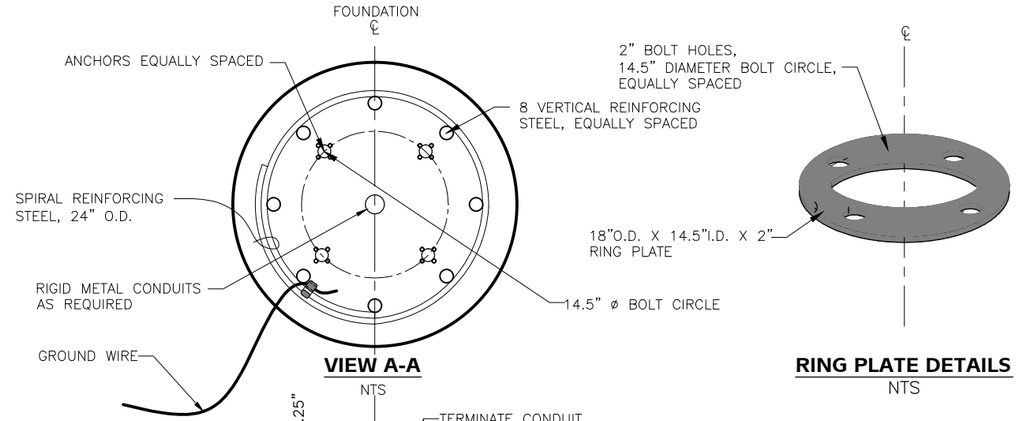
GRADE	FOUNDATION DEPTH BY APPLICATION (FT.)
	ELECTROLIER * SEE NOTE 9
FLAT TO 6:1	8
>=6:1 TO 3:1	9
>=3:1 TO 1.5:1	10

STATE OF ALASKA 49TH SUBMITTAL 12/12/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

ILLUMINATION FOUNDATION DETAIL "A"

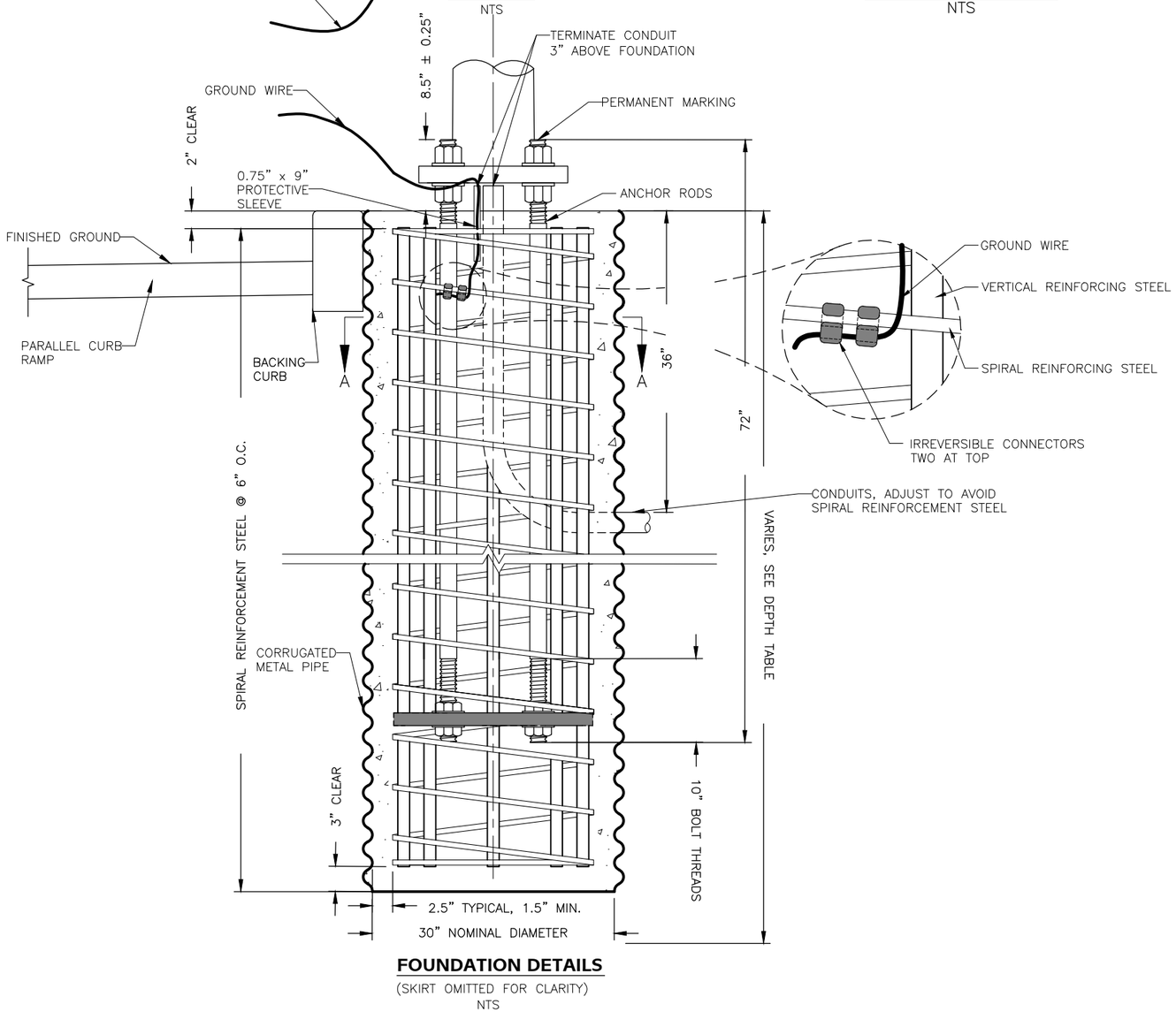
Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Illumination Foundation Detail A

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H24	--



VIEW A-A
NTS

RING PLATE DETAILS
NTS



FOUNDATION DETAILS
(SKIRT OMITTED FOR CLARITY)
NTS

NOTES:

1. THIS DETAIL MODIFIES STANDARD DETAIL L-30.10.

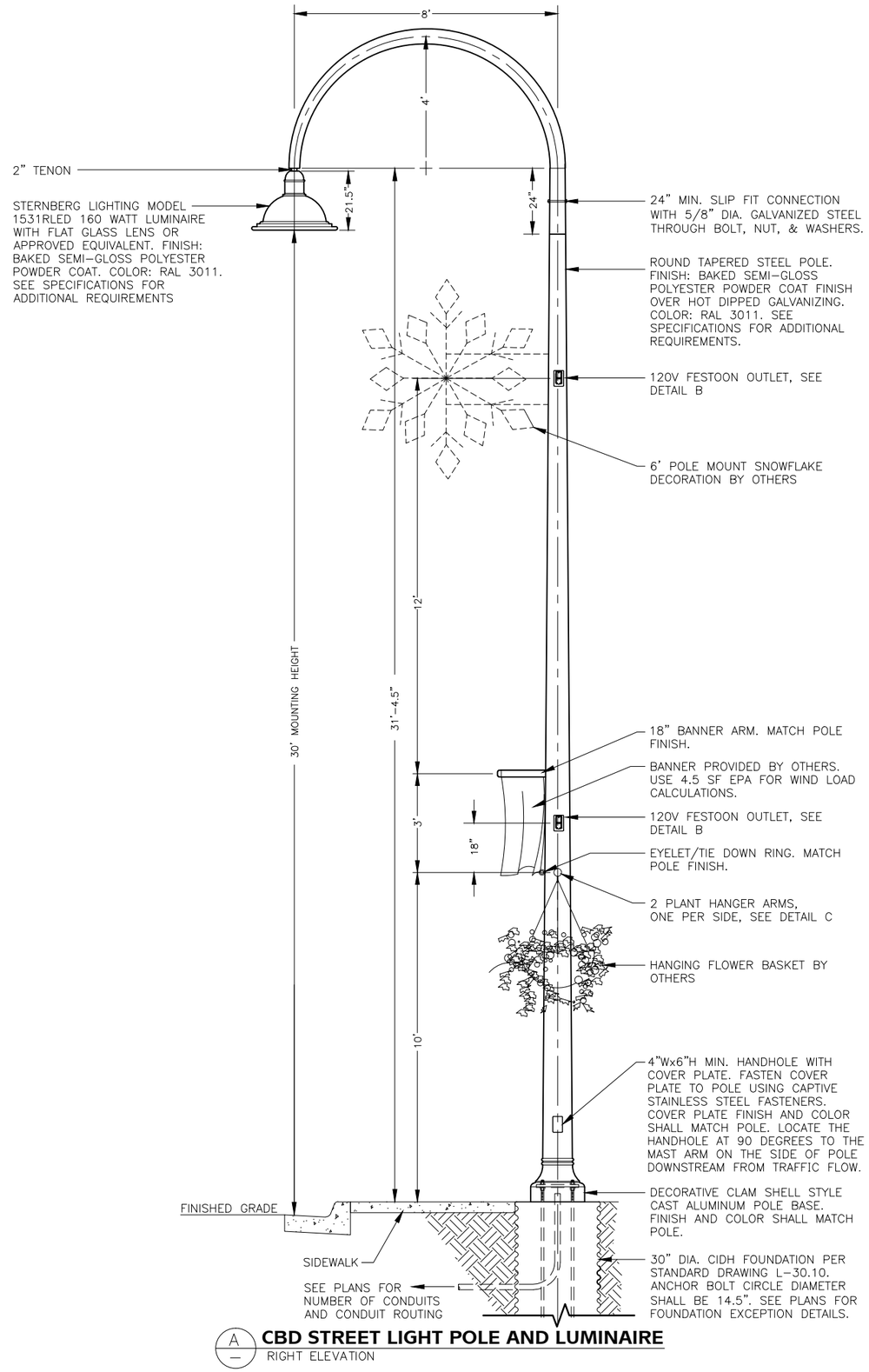
MATERIAL REQUIREMENTS		
ANCHOR RODS 2" X 96"	ASTM F1554 S2, S3, & S5	GR 105
FASTNERS, WASHERS	AASHTO M293	
FASTNERS, NUTS	AASHTO M292	
FINISH, ANCHOR RODS & FASTNERS	AASHTO M232	
RING PLATE	AASHTO M270	GR 36

DEPTH TABLE	
GRADE	FOUNDATION DEPTH BY APPLICATION (FT.)
	ELECTROLIER * SEE NOTE 9
FLAT TO 6:1	8
>=6:1 TO 3:1	9
>=3:1 TO 1.5:1	10

ILLUMINATION FOUNDATION DETAIL "B"

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Illumination Foundation Detail B

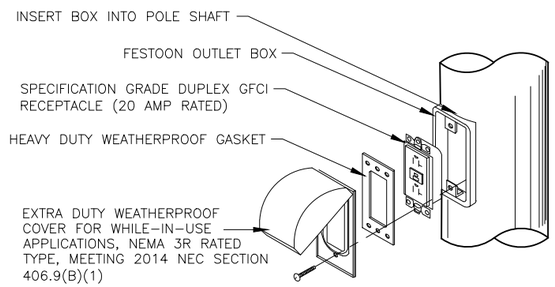
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H25	--



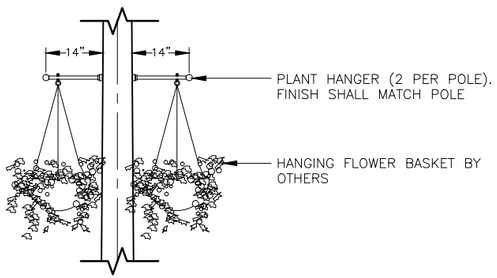
A — **CBD STREET LIGHT POLE AND LUMINAIRE**
RIGHT ELEVATION

NOTES:

1. WELD SIZE TO BE DETERMINED BY MANUFACTURER.
2. MOUNTING HEIGHT, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER THE FOUNDATION VARIES.
3. MINIMUM OUTSIDE DIAMETER AT THE TOP OF POLE EQUALS 3-7/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.15" PER FOOT.



B — **FESTOON OUTLET DETAIL**
ISOMETRIC VIEW



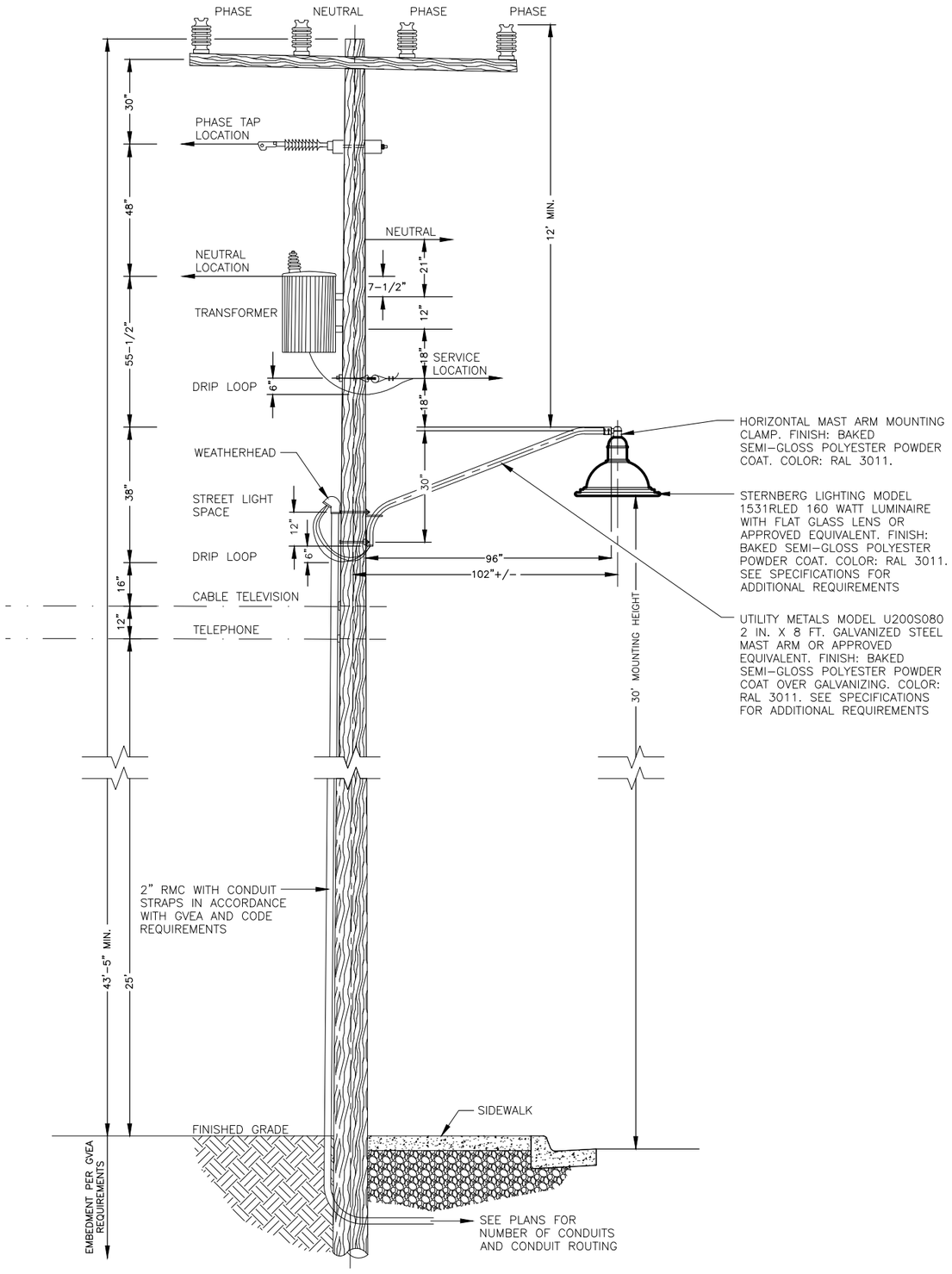
C — **PLANT HANGER DETAIL**
FRONT ELEVATION

CENTRAL BUSINESS DISTRICT STREET LIGHT POLE AND LUMINAIRE DETAILS

STATE OF ALASKA 49TH SUBMITTAL 12/1/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\COF CBD Streetlight Design

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H26	--



A — **CBD STREET LIGHT LUMINAIRE MOUNTED ON GVEA JOINT USE UTILITY POLE**
LEFT ELEVATION

WOOD POLE SIGNAL AND LIGHTING DETAILS

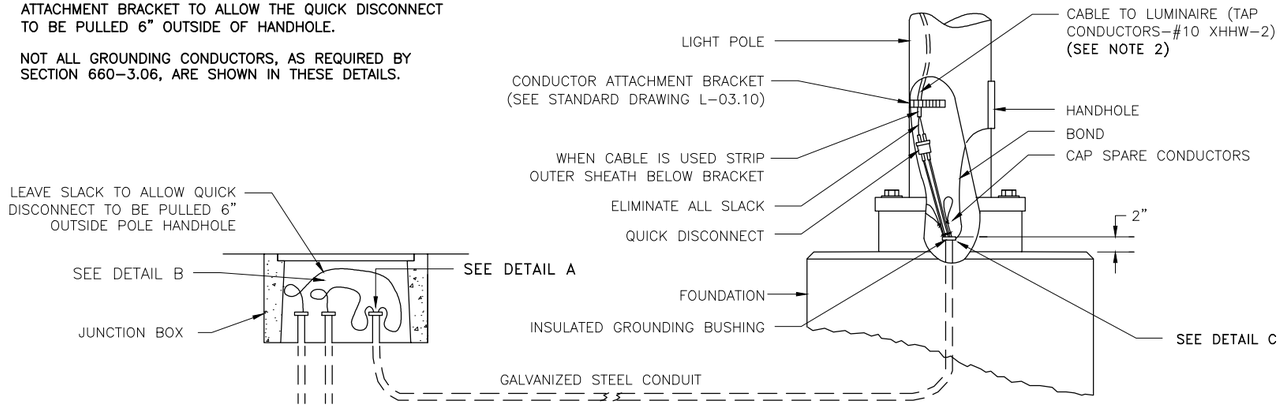
STATE OF ALASKA 49TH SUBMITTAL 2/12/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

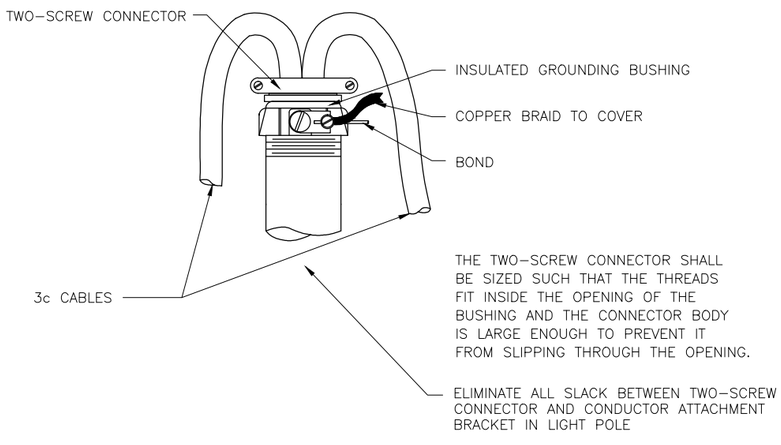
Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\utility pole light mounting details

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H27	--

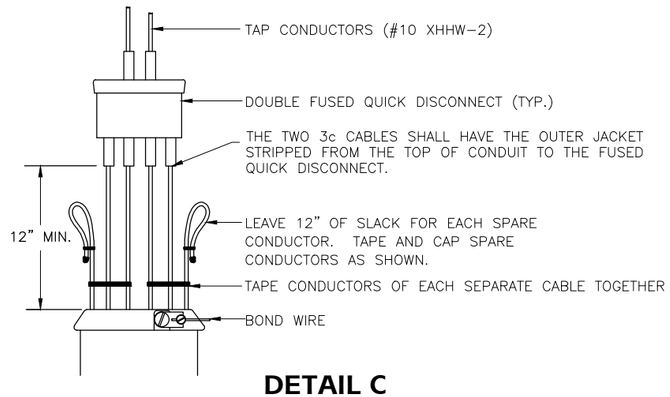
NOTES:

1. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX.
2. LEAVE ENOUGH SLACK ABOVE THE CONDUCTOR ATTACHMENT BRACKET TO ALLOW THE QUICK DISCONNECT TO BE PULLED 6" OUTSIDE OF HANDHOLE.
3. NOT ALL GROUNDING CONDUCTORS, AS REQUIRED BY SECTION 660-3.06, ARE SHOWN IN THESE DETAILS.

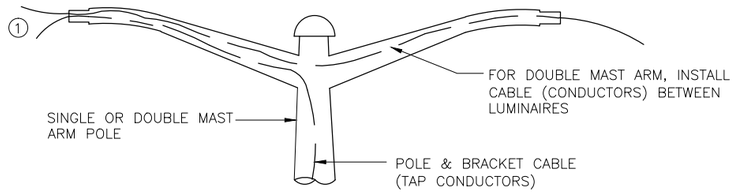




DETAIL A

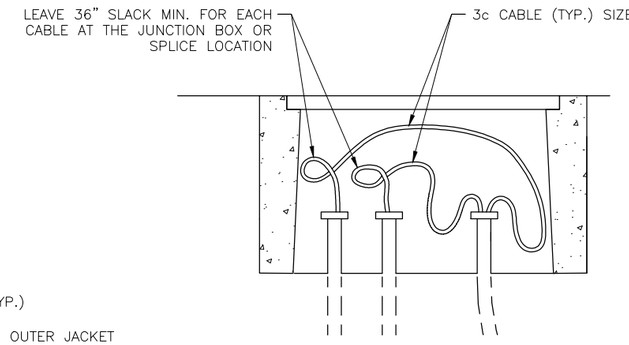


DETAIL C



① INSTALL 2"x1" REDUCING WASHER AND 1" CONNECTOR TO SECURE CONDUCTORS AT THE END OF THE MAST ARM

LIGHT STANDARD MAST ARM WIRING DETAIL



DETAIL B

LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS

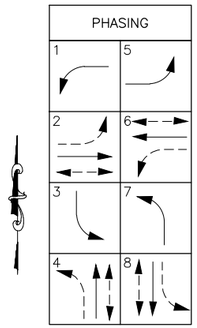
LIGHTING SYSTEM POLE & J-BOX WIRING DETAILS

STATE OF ALASKA 49TH SUBMITTAL 2014 12/12 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble Lite Pole & Wiring Detl

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H28	--

PHASE SEQUENCE

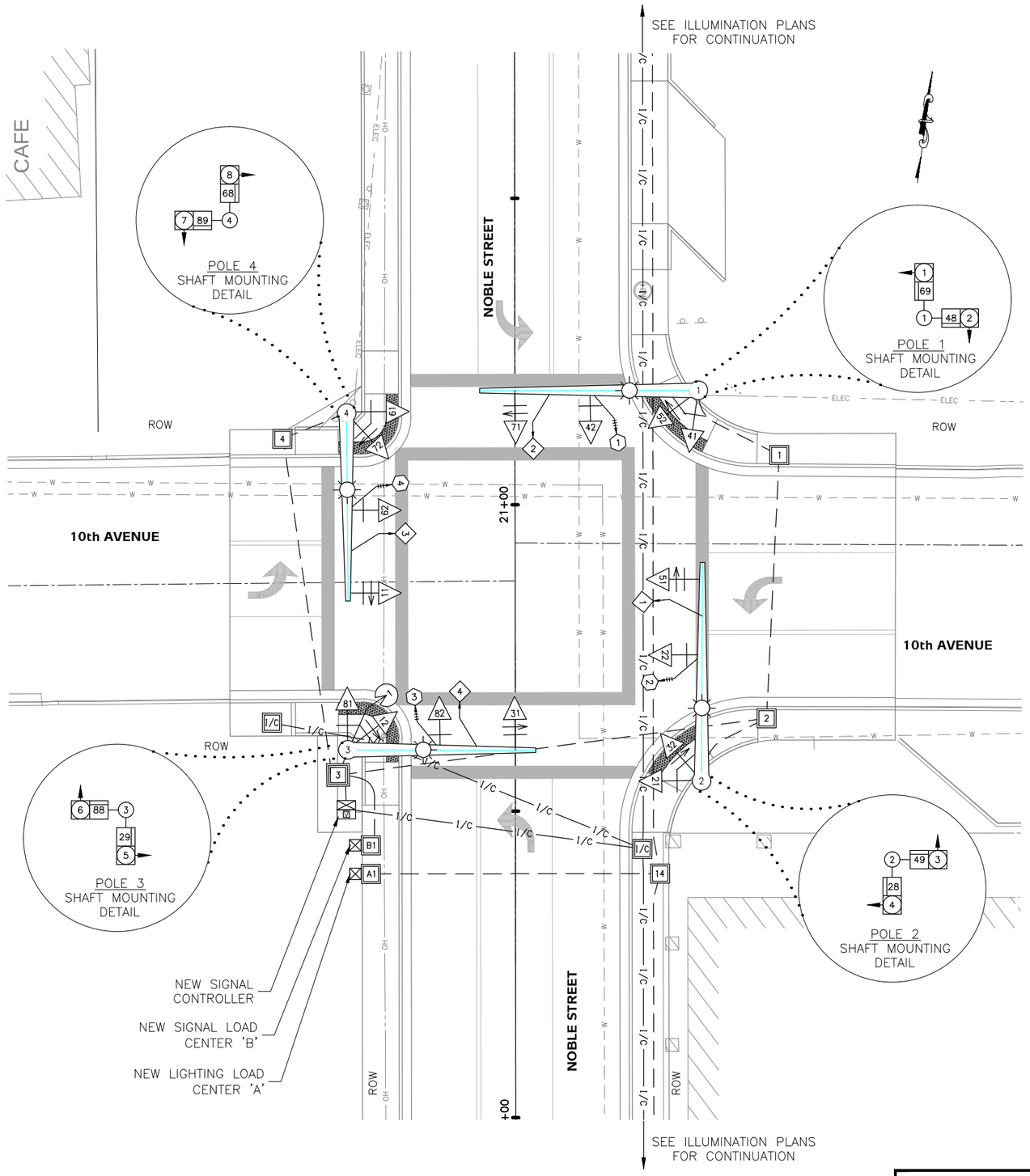


PED MOVEMENT

VEH. MOVEMENT

LEFT TURN MOVEMENT (PROTECTED)

LEFT TURN MOVEMENT (PERMISSIVE)

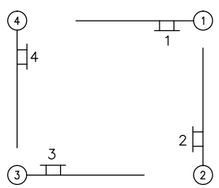


SUPPLEMENTAL LEGEND

RADAR DETECTOR

OPTICOM DETECTOR

PAN, TILT, ZOOM CAMERA



SIGN PLACEMENT

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_10th Signalization Plans

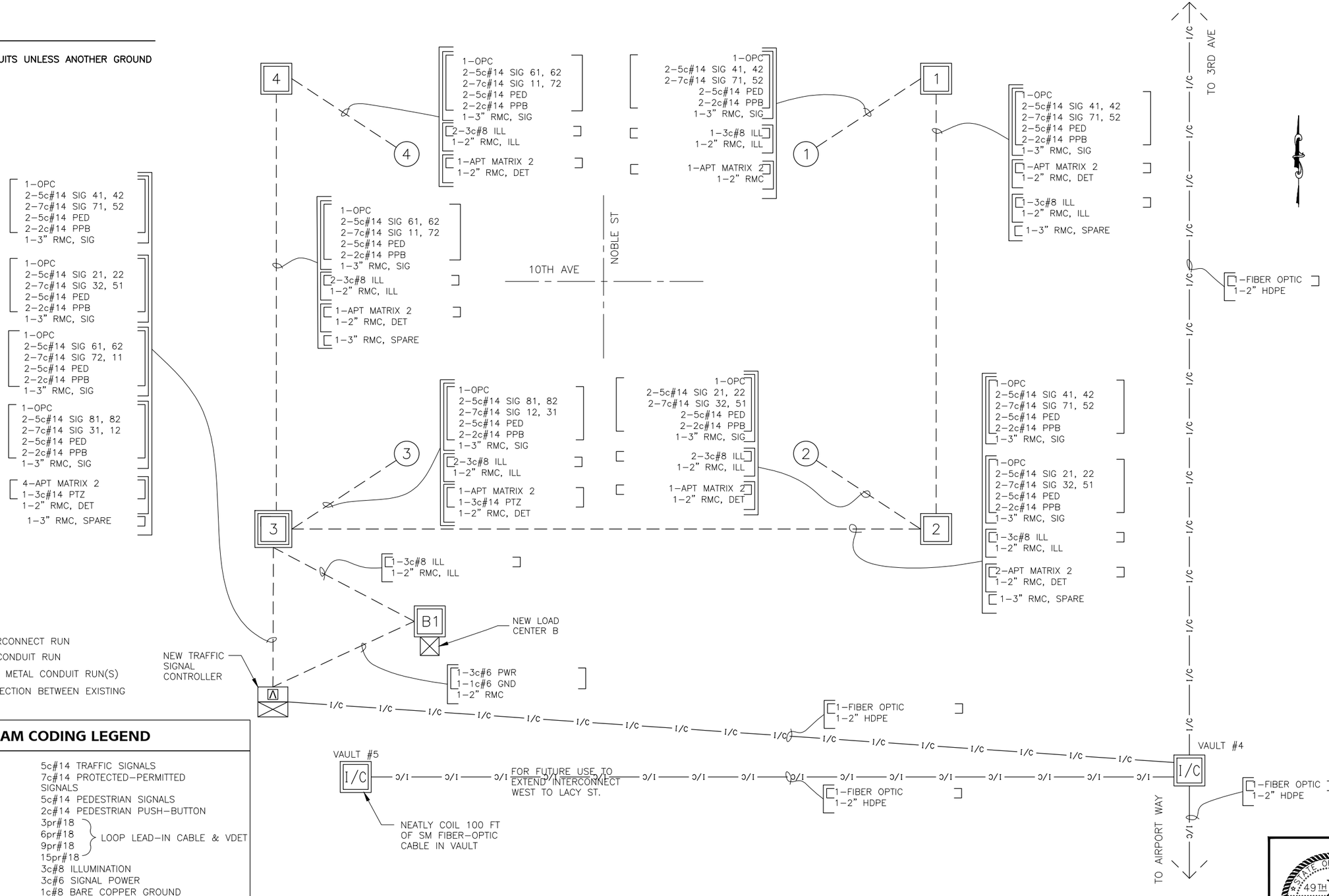
NOBLE ST – 10TH AVE
SIGNALIZATION PLANS 1 OF 4

STATE OF ALASKA
49TH
SUBMITTAL
2/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H29	--

NOTE:

1. INSTALL 1-1c#8 IN ALL CONDUITS UNLESS ANOTHER GROUND CONDUCTOR IS SPECIFIED.



WIRING LEGEND:

- I/C — INDICATES NEW INTERCONNECT RUN
- INDICATES EXISTING CONDUIT RUN
- INDICATES NEW RIGID METAL CONDUIT RUN(S)
- INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

WIRING DIAGRAM CODING LEGEND

OPC = OPTICOM CABLE
LL = LOOP LEAD-IN
INT = INTERCONNECT CABLE
PWR = POWER CONDUCTORS FOR SIGNAL CONTROLLER
T = TRANSFORMER

GND = GROUND
ILL = ILLUMINATION
RMC = RIGID METAL CONDUIT
PVC = POLYVINYLCHLORIDE CONDUIT

PPB = PEDESTRIAN PUSH-BUTTON
SIG = SIGNAL
PED = PEDESTRIAN SIGNAL
DET = DETECTION CONDUIT
F = FUTURE USE
PTZ = PAN, TILT, ZOOM CAMERA
E = EXISTING
RDET = RADAR DETECTION

5c#14 TRAFFIC SIGNALS
7c#14 PROTECTED-PERMITTED SIGNALS
5c#14 PEDESTRIAN SIGNALS
2c#14 PEDESTRIAN PUSH-BUTTON
3pr#18, 6pr#18, 9pr#18, 15pr#18 } LOOP LEAD-IN CABLE & VDET
3c#8 ILLUMINATION
3c#6 SIGNAL POWER
1c#8 BARE COPPER GROUND
18pr#19 PE-39 INTERCONNECT CABLE
1c#6 BARE COPPER GROUND
3C#14 PAN, TILT, ZOOM CAMERA
APT MATRIX 2 RDET HOME RUN CABLE

NOBLE ST – 10TH AVE
SIGNALIZATION PLANS 2 OF 4

STATE OF ALASKA
49TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_10th Wiring Diagram

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H30	--

SIGNAL SIGN SCHEDULE

SIGN NO.	LOCATION		ASDS CODE	LEGEND	SIZE HxV (INCHES)	AREA (SQ FT)	BRACING/FRAMING		REMARKS
	POLE NO.	OFFSET					BRACED	FRAMED	
1	1	8.0	D3-1	10TH AVE	78x24	13.00		X	
2	2	8.0	D3-1	NOBLE ST	78x24	13.00		X	
3	3	8.0	D3-1	10TH AVE	78x24	13.00		X	
4	4	8.0	D3-1	NOBLE ST	78x24	13.00		X	
					SUBTOTAL SIGNAL SIGNS	52.00			

NOTE:
LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE

POLE-POST DESIGN LOADING SCHEDULE

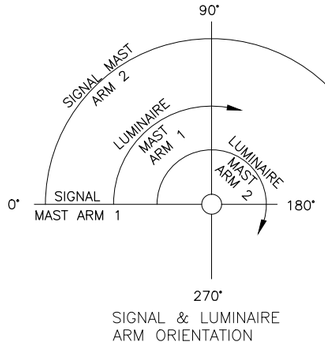
POLE NO.	CORNER	LUM# ARM L (FT.)	SIGNAL ARM L (FT.)		A	B	C	D	E	F	A-A	REMARKS
1	NE	15.0'	35'	SIG. OR SIGN	SIGNAL	RADAR DET	SIGNAL	SIGN				MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	29.9	23.8	17.6	8.0				
				LxW OR S.F.	14.10	2.00	11.50	13.00				
2	SE	15.0'	35'	SIG. OR SIGN	SIGNAL	RADAR DET	SIGNAL	SIGN				MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	32.9	26.2	20.6	8.0				
				LxW OR S.F.	14.10	2.00	11.50	13.00				
3	SW	15.0'	30'	SIG. OR SIGN	SIGNAL	RADAR DET	SIGNAL	SIGN				MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	27.3	21.2	15.1	8.0				
				LxW OR S.F.	14.10	2.00	11.50	13.00				
4	NW	15.0'	30'	SIG. OR SIGN	SIGNAL	RADAR DET	SIGNAL	SIGN				MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	29.3	21.9	15.9	8.0				
				LxW OR S.F.	14.10	2.00	11.50	13.00				

NOTES:
1. BOTH SIGNAL AND ILLUMINATION MAST ARMS ARE ORIENTATED IN THE SAME DIRECTION UNLESS NOTED OTHERWISE.
2. ORIENT SIGNAL MAST ARM(S) 90° TO ℄ OF ROADWAY UNLESS NOTED OTHERWISE.

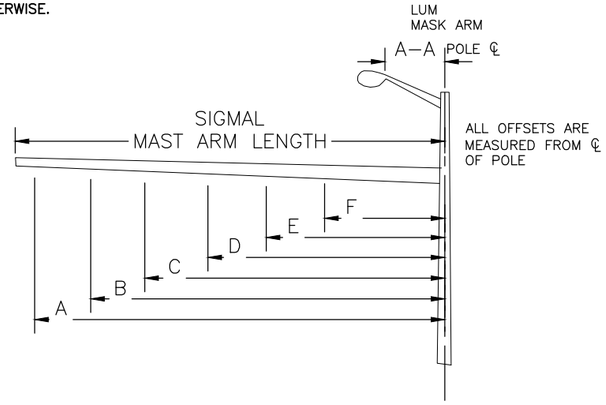
SIGNAL HEAD SCHEDULE

POLE/ POST NO.	FACE NO.	INDICATIONS										MOUNTING				REMARKS
		12" BALL			12" ARROW				8" BALL			MAST ARM		SIDE MTNG. TYPE	TOP OF POST	
		R	Y	G	R	Y	YF	G	R	Y	G	LOC. OFFSET	ELEV. PLUMB			
1	52				L	L	L	L						D		NOTE 3
	41	X	X	X										D		
	42	X	X	X								17.6	X			
	71				L	L	L	L				29.9	X			NOTE 3
2	32				L	L	L	L						D		NOTE 3
	21	X	X	X										D		
	22	X	X	X								20.6	X			
	51				L	L	L	L				32.9				NOTE 3
3	12				L	L	L	L						D		NOTE 3
	81	X	X	X										D		
	82	X	X	X								15.1	X			
	31				L	L	L	L				27.3	X			NOTE 3
4	72				L	L	L	L						D		NOTE 3
	61	X	X	X										D		
	62	X	X	X								15.9				
	11				L	L	L	L				29.3				NOTE 3

NOTES:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE.
2. YF = YELLOW FLASHING ARROW.
3. PLUMBIZE MOUNTING LOCATION SHALL BE BETWEEN YELLOW ARROW AND FLASHINF YELLOW ARROW SECTIONS.

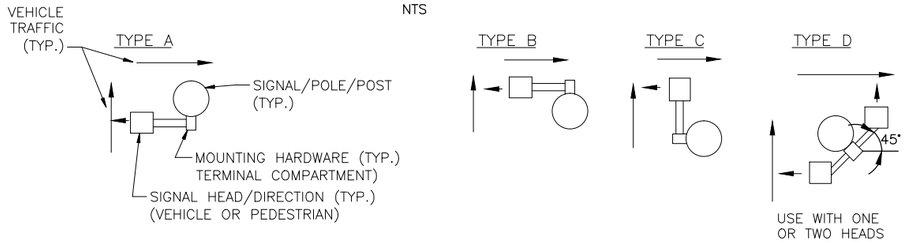


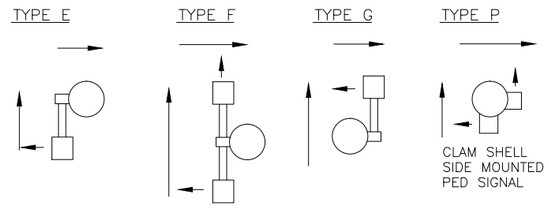
SIGNAL & LUMINAIRE ARM ORIENTATION



POLE/POST SIGNAL HEAD SIDE MOUNTING TYPES

NTS



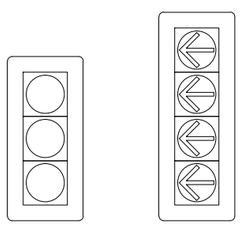


PED SIGNAL HEAD SCHEDULE

POLE/ POST NO.	FACE NO.	MOUNTING TYPE	REMARKS
1	69	P	
	48	P	
2	28	P	
	49	P	
3	29	P	
	88	P	
4	68	P	
	89	P	

SIGNAL HEAD CONFIGURATIONS

(AREAS ARE FOR WIND LOAD CALCULATIONS)



NOBLE ST - 10TH AVE
SIGNALIZATION PLANS 3 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_10th Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H31	--

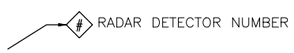
BASE & JUNCTION BOX SCHEDULE

LOCATION		DESCRIPTION			BASE TYPE*			JUNCTION BOX TYPE				REMARKS
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CONTROLLER	CIDH	P	A	IA	II	III	IV	
21+19	29.9', RT	1			X							
20+55	30.4', RT	2			X							
20+60	27.3', LT	3			X							
21+15	27.5', LT	4			X							
21+08	43.1', RT		1						X			
20+65	41.0', RT		2						X			
20+56	28.9', LT		3							X		
21+11	37.9', LT		4						X			
20+50	27.6', LT			X								

* P = PRECAST BASE (FOUNDATION)
A = TYPE A SEE T-31
CIDH = CAST IN DRILLED HOLE

RADAR DETECTION SCHEDULE

DET. NO.	PHASE CALL	TYPE	FACING DIR.	POLE NO.	LOCATION	RADAR TYPE
1	2&5	STOP BAR	WEST	2	SIGNAL ARM	SMARTSENSOR MATRIX
2	4&7	STOP BAR	SOUTH	1	SIGNAL ARM	SMARTSENSOR MATRIX
3	6&1	STOP BAR	EAST	4	SIGNAL ARM	SMARTSENSOR MATRIX
4	8&3	STOP BAR	NORTH	3	SIGNAL ARM	SMARTSENSOR MATRIX



OPTICOM DETECTOR SCHEDULE

LOCATION	DET. NO.	PHASE CALL	FACING DIR.	PREEMPTOR PRIORITY
ON TOP OF SIGNAL HEAD 42	1	4, 7	SOUTH	
ON TOP OF SIGNAL HEAD 22	2	2, 5	WEST	
ON TOP OF SIGNAL HEAD 82	3	3, 8	NORTH	
ON TOP OF SIGNAL HEAD 62	4	6, 1	EAST	

FLASH PROGRAM COLOR

PHASE	1	2	3	4	5	6	7	8
COLOR	R	R	R	R	R	R	R	R

PEDESTRIAN DETECTION SCHEDULE

POLE	PUSH BUTTON	PHASE	REMARKS
1	1	6	SEE NOTE 2
1	2	4	SEE NOTE 1
2	3	4	SEE NOTE 2
2	4	2	SEE NOTE 1
3	5	2	SEE NOTE 2
3	6	8	SEE NOTE 1
4	7	8	SEE NOTE 2
4	8	6	SEE NOTE 1

NOTES:

1. INSTALL AN R10-3L SIGN WITH PEDESTRIAN PUSH BUTTON. SIGN SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO TRAFFIC SIGNAL PAY ITEMS
2. INSTALL AN R10-3R SIGN WITH PEDESTRIAN PUSH BUTTON. SIGN SHALL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO TRAFFIC SIGNAL PAY ITEMS

RADAR DETECTION EQUIPMENT

QTY	DESCRIPTION
0	SMARTSENSOR ADVANCE EXTENDED RANGE (WX-SS-200E)
4	SMARTSENSOR MATRIX (WX-SS-225)
4	PELCO MOUNT (WX-SS-611)
4	SMARTSENSOR 6-CONDUCTOR CABLE (WX-SS-704-XXX)

NEMA CLOSURE EQUIPMENT

QTY	DESCRIPTION
4	CLICK 710, SMARTSENSOR 6-CONDUCTOR CABLE JUNCTION BOX (WX-SS-710)

CABINET EQUIPMENT

QTY	DESCRIPTION
0	CLICK! 112 RACK CARDS (WX-CLK-112)
0	CLICK! 114 RACK CARDS (WX-CLK-114)
0	INTERSECTION PREASSEMBLED BACKPLATE -AC, FOUR SENSOR, (WX-SS-B01-0005)
	1 CLICK! 204 4 AMP POWER SUPPLY
	5 CLICK! 210-02 2 AMP CIRCUIT BREAKERS (WX-CLK-210)
	2 CLICK! 222, SMARTSENSOR SURGE PROTECTOR (WX-CLK-222)
	1 CLICK! 230, AC SURGE PROTECTOR (WX-CLK-230)
	1-T-BUS 5-SCREW TERMINAL BLOCKS (LEFT END)
	5 T-BUS CONNECTORS (POWER AND COMMUNICATION)
	1 T-BUS CONNECTOR (POWER ONLY)
	5 END BRACKETS WITH LABELS
	1 END BRACKET WITHOUT LABEL
	4 TERMINAL BLOCKS FOR AC LINE INPUT: SPRING CAGE TO PLUG SPRING
	CAGE 10 AWG (2 GROUNDED)
	28 TERMINAL BLOCKS FOR CABLE TERMINATION: INSULATION DISPLACEMENT
	TO PLUG INSULATION DISPLACEMENT (4 GROUNDED)
	MOUNTING PLATFORM: TRAFFIC CABINET BACKPLATE
	1 8-FT POWER CORD
	1 8-FT 14 AWG GROUND CABLE
	1 5-FT BLACK RJ-11 PATCH CABLE
	4 5FT WHITE RJ-11 PATCH CABLES
1	CLICK! 650, CABINET INTERFACE (WX-CLK-650)

ADDITIONAL EQUIPMENT

QTY	DESCRIPTION
0	SMARTSENSOR MANAGER ADVANCE SOFTWARE (WX-550-0001)
1	SMARTSENSOR MANAGER MATRIX SOFTWARE (WX-550-0004)

NOBLE ST - 10TH AVE
SIGNALIZATION PLANS 4 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_10th Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H32	--

PHASE SEQUENCE

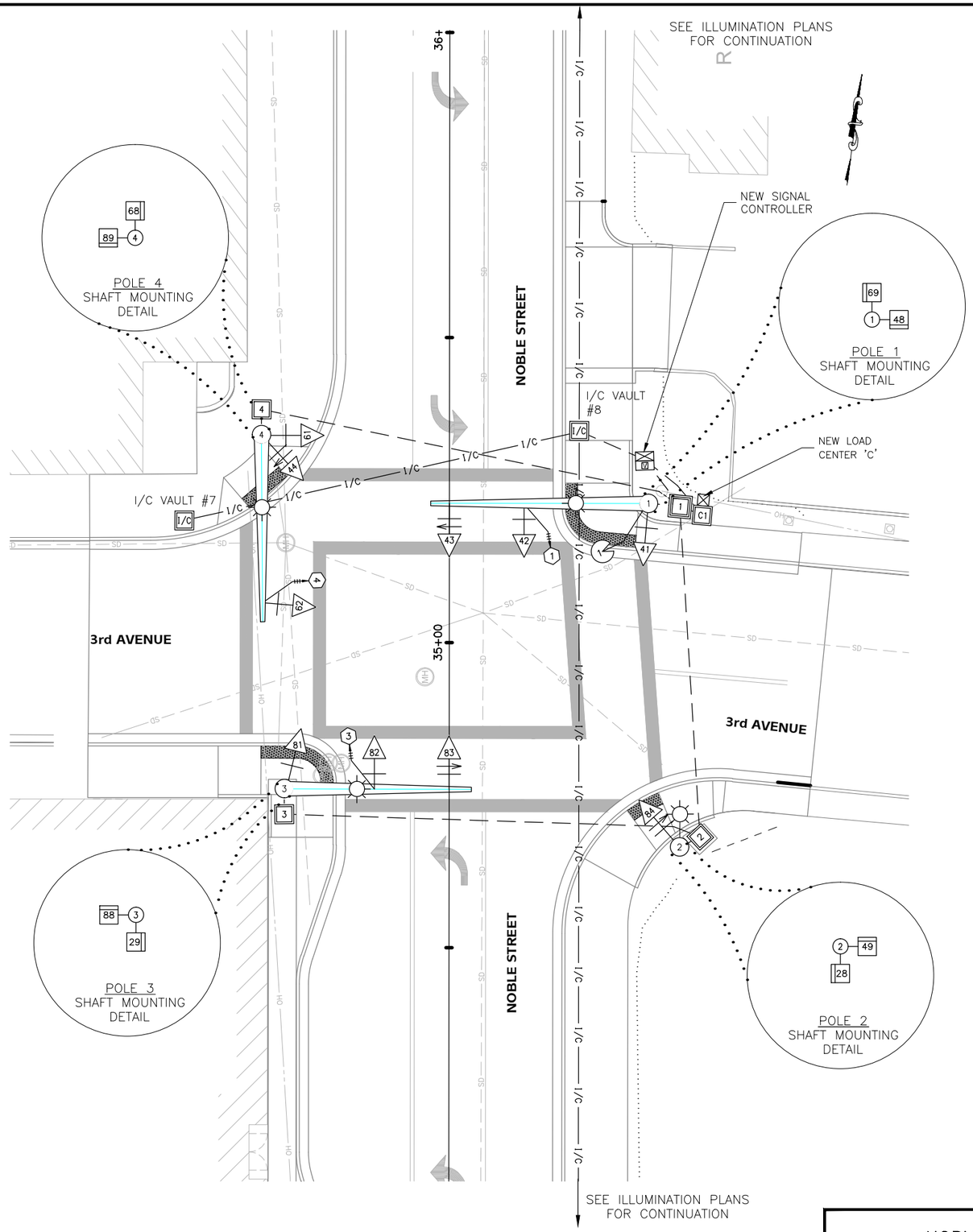
PHASING	
1 N/A	5 N/A
2	6
3 N/A	7 N/A
4	8

PED MOVEMENT

VEH. MOVEMENT

LEFT TURN MOVEMENT (PROTECTED)

LEFT TURN MOVEMENT (PERMISSIVE)

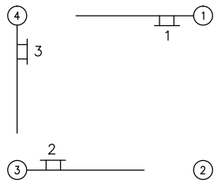


SUPPLEMENTAL LEGEND

RADAR DETECTOR

OPTICOM DETECTOR

PAN, TILT, ZOOM CAMERA



SIGN PLACEMENT

NOBLE ST – 3RD AVE
SIGNALIZATION PLANS 1 OF 4

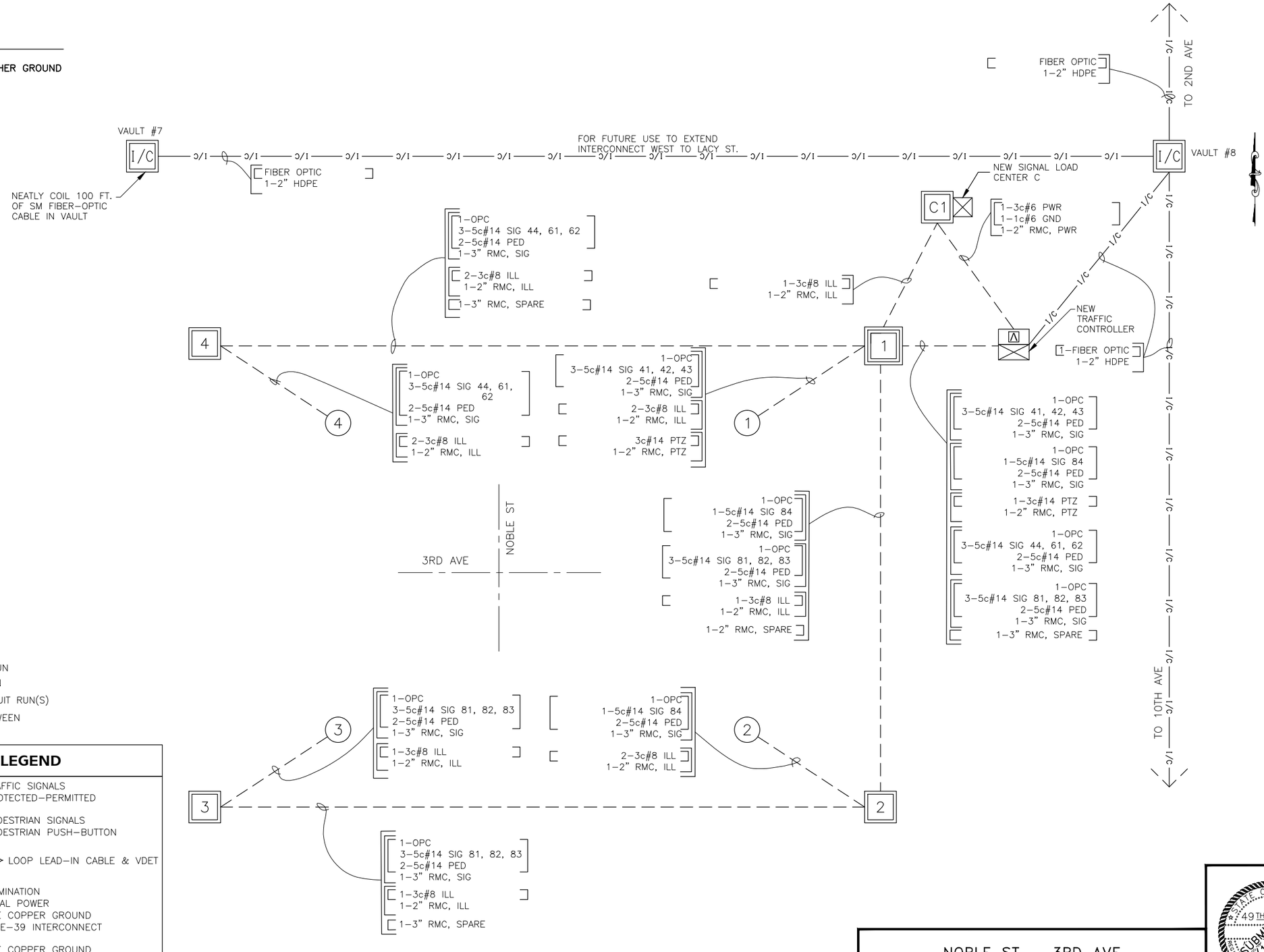
STATE OF ALASKA 49TH SUBMITTAL 12/12/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_3rd Signalization Plans

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H33	--

NOTE:

1. INSTALL 1-1c#8 IN ALL CONDUITS UNLESS ANOTHER GROUND CONDUCTOR IS SPECIFIED.



WIRING LEGEND:

- I/C — INDICATES NEW INTERCONNECT RUN
- INDICATES EXISTING CONDUIT RUN
- INDICATES NEW RIGID METAL CONDUIT RUN(S)
- INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

WIRING DIAGRAM CODING LEGEND

OPC = OPTICOM CABLE	5c#14 TRAFFIC SIGNALS
LL = LOOP LEAD-IN	7c#14 PROTECTED-PERMITTED SIGNALS
INT = INTERCONNECT CABLE	5c#14 PEDESTRIAN SIGNALS
PWR = POWER CONDUCTORS FOR SIGNAL CONTROLLER	2c#14 PEDESTRIAN PUSH-BUTTON
T = TRANSFORMER	3pr#18, 6pr#18, 9pr#18, 15pr#18 } LOOP LEAD-IN CABLE & VDET
GND = GROUND	3c#8 ILLUMINATION
ILL = ILLUMINATION	3c#6 SIGNAL POWER
RMC = RIGID METAL CONDUIT	1c#8 BARE COPPER GROUND
PVC = POLYVINYLCHLORIDE CONDUIT	18pr#19 PE-39 INTERCONNECT CABLE
PPB = PEDESTRIAN PUSH-BUTTON	1c#6 BARE COPPER GROUND
SIG = SIGNAL	3C#14 PAN, TILT, ZOOM CAMERA
PED = PEDESTRIAN SIGNAL	APT MATRIX 2 RDET HOME RUN CABLE
DET = DETECTION CONDUIT	
F = FUTURE USE	
PTZ = PAN, TILT, ZOOM CAMERA	
E = EXISTING	
RDET = RADAR DETECTION	

NOBLE ST – 3RD AVE
SIGNALIZATION PLANS 2 OF 4

STATE OF ALASKA
49TH
SUBMITTAL
2/12/2014
JOHNSON ENGINEER 8706
REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_3rd Wiring Diagram

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H34	--

SIGNAL SIGN SCHEDULE

SIGN NO.	LOCATION		ASDS CODE	LEGEND	SIZE HxV (INCHES)	AREA (SQ FT)	BRACING/ FRAMING		REMARKS
	POLE NO.	OFFSET					BRACED	FRAMED	
1	1	14.0	D3-1	3RD AVE	72X24	12.00		X	
2	3	8.7	D3-1	3RD AVE	72X24	12.00		X	
3	4	17.7	D3-1	NOBLE ST	78X24	13.00		X	
				SUBTOTAL SIGNAL SIGNS		37.00			

NOTE:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE

POLE-POST DESIGN LOADING SCHEDULE

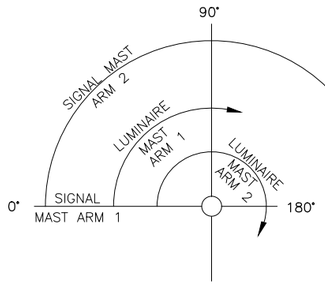
POLE NO.	CORNER	LUM# ARM L (FT.)	SIGNAL ARM L (FT.)		A	B	C	D	E	F	A-A	REMARKS
1	NE	15.0'	35'	SIG. OR SIGN	SIGNAL	SIGNAL	SIGN					MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	32.6	20.4	14.0					
				LxW OR S.F.	11.50	11.50	11.00					
2	SE	15.0'	N/A	SIG. OR SIGN								MOUNT LUMINAIRE ARM @ 90° TO ℄ 3RD AVENUE
				LOC. OFFSET								
				LxW OR S.F.								
3	SW	15.0'	30'	SIG. OR SIGN	SIGNAL	SIGNAL	SIGN					MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	27.0	14.8	8.7					
				LxW OR S.F.	11.50	11.50	11.00					
4	NW	15.0'	25'	SIG. OR SIGN	SIGNAL	SIGN						MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	27.5	17.7						
				LxW OR S.F.	11.50	13.00						

NOTES:
1. BOTH SIGNAL AND ILLUMINATION MAST ARMS ARE ORIENTATED IN THE SAME DIRECTION UNLESS NOTED OTHERWISE.
2. ORIENT SIGNAL MAST ARM(S) 90° TO ℄ OF ROADWAY UNLESS NOTED OTHERWISE.

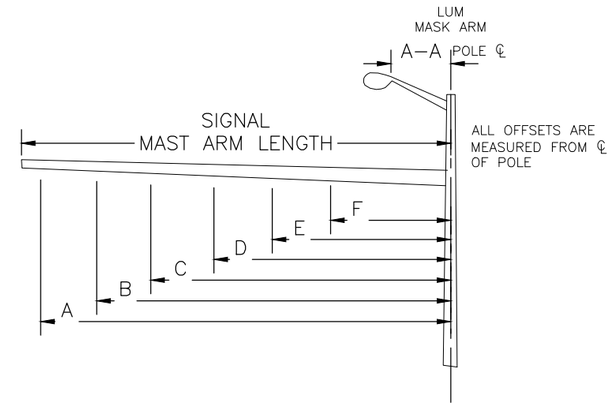
SIGNAL HEAD SCHEDULE

POLE/ POST NO.	FACE NO.	INDICATIONS										MOUNTING				REMARKS
		12" BALL			12" ARROW				8" BALL			MAST ARM		SIDE MTNG. TYPE	TOP OF POST	
		R	Y	G	R	Y	YF	G	R	Y	G	LOC. OFFSET	ELEV. PLUMB			
1	41	X	X	X										D		
	42	X	X	X								20.4	X			
	43				L	L	L					32.6	X			
2	84				L	L	L							D		
3	81	X	X	X										D		
	82	X	X	X								14.8	X			
	83				L	L	L					27.0	X			
4	44				L	L	L							D		
	61	X	X	X										D		
	62	X	X	X								27.5	X			

NOTES:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE.
2. YF = YELLOW FLASHING ARROW.

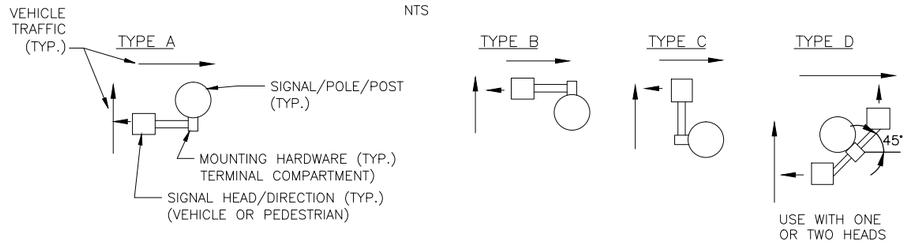


SIGNAL & LUMINAIRE ARM ORIENTATION



POLE/POST SIGNAL HEAD SIDE MOUNTING TYPES

NTS

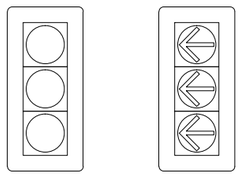


PED SIGNAL HEAD SCHEDULE

POLE/ POST NO.	FACE NO.	MOUNTING TYPE	REMARKS
1	69	P	
	48	P	
2	28	P	
	49	P	
3	29	P	
	88	P	
4	68	P	
	89	P	

SIGNAL HEAD CONFIGURATIONS

(AREAS ARE FOR WIND LOAD CALCULATIONS)



12" (11.5 SF)

12" (11.5 SF)

NOBLE ST – 3RD AVE
SIGNALIZATION PLANS 3 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_3rd Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H35	--

BASE & JUNCTION BOX SCHEDULE

LOCATION		DESCRIPTION			BASE TYPE*			JUNCTION BOX TYPE				REMARKS
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CONTROLLER	CIDH	P	A	IA	II	III	IV	
28+62	32.6', RT	1			X							
28+06	38.8', RT	2			X							INSTALL AT BACK OF SIDEWALK
28+16	27.0', LT	3			X							
28+74	30.8', LT	4			X							
28+62	37.8', RT		1							X		INSTALL AT BACK OF SIDEWALK
28+08	41.2', RT		2						X			INSTALL AT BACK OF SIDEWALK
28+12	27.0', LT		3						X			
28+78	30.8', LT		4						X			
28+69	32.0', RT			X								INSTALL AT BACK OF SIDEWALK

* P = PRECAST BASE (FOUNDATION)
A = TYPE A SEE T-31
CIDH = CAST IN DRILLED HOLE

OPTICOM DETECTOR SCHEDULE

LOCATION	DET. NO.	PHASE CALL	FACING DIR.	PREEMPTOR PRIORITY
ON TOP OF SIGNAL HEAD 42	1	4, 7	SOUTH	
ON TOP OF SIGNAL HEAD 82	3	3, 8	NORTH	
ON TOP OF SIGNAL HEAD 62	4	6	EAST	

FLASH PROGRAM COLOR

PHASE	1	2	3	4	5	6	7	8
COLOR	N/A	N/A	R	R	N/A	R	R	R

NOBLE ST – 3RD AVE
SIGNALIZATION PLANS 4 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_3rd Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H36	--

PHASE SEQUENCE

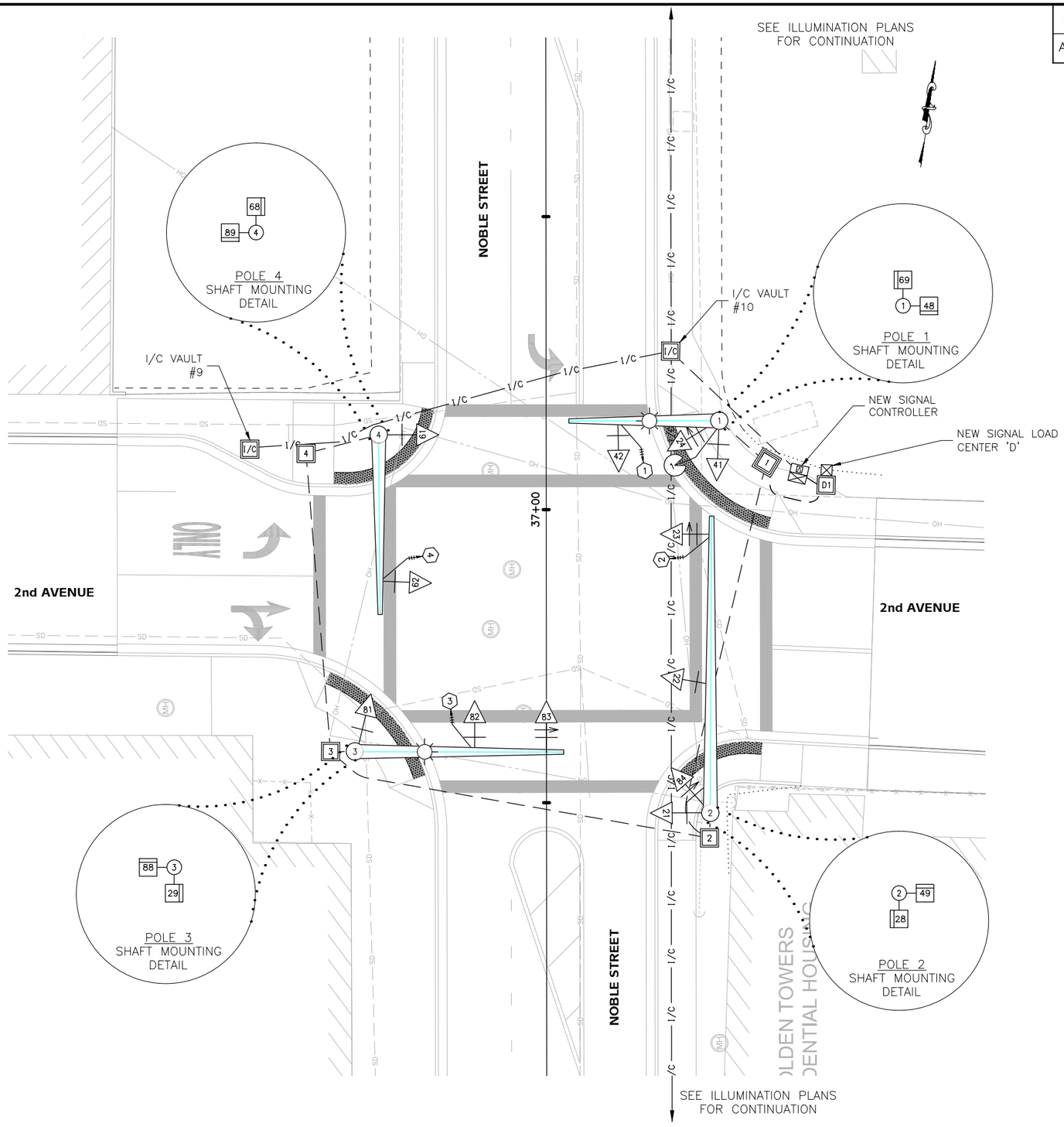
PHASING	
1 N/A	5 N/A
2	6
3 N/A	7 N/A
4	8

PED MOVEMENT

VEH. MOVEMENT

LEFT TURN MOVEMENT (PROTECTED)

LEFT TURN MOVEMENT (PERMISSIVE)

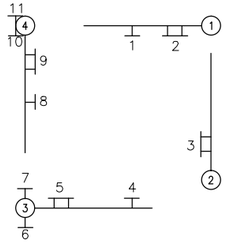


SUPPLEMENTAL LEGEND

VIDEO DETECTOR

OPTICOM DETECTOR

PAN, TILT, ZOOM CAMERA



SIGN PLACEMENT

NOBLE ST – 2ND AVE
SIGNALIZATION PLANS 1 OF 4

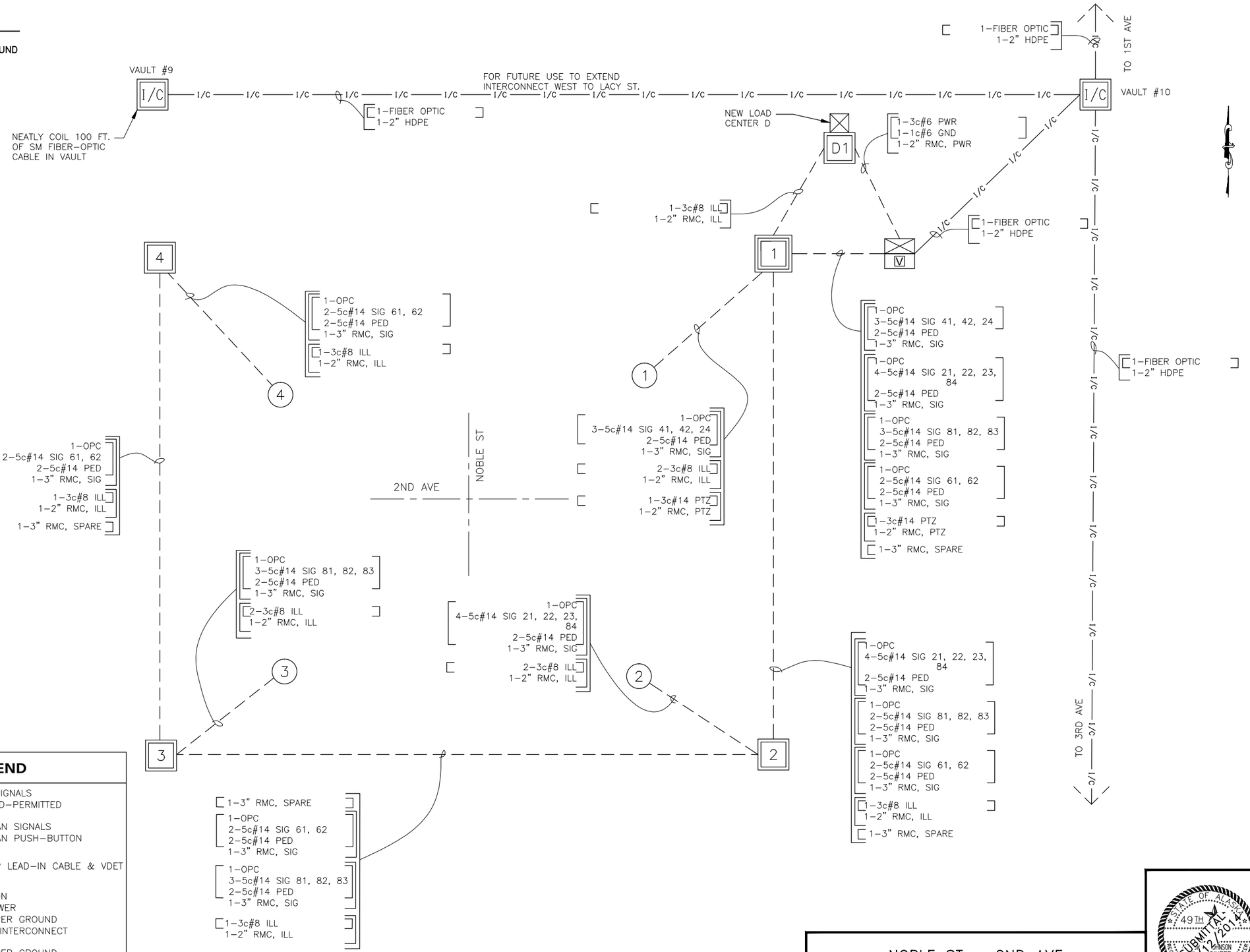
STATE OF ALASKA 49TH SUBMITTAL 12/12/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_2nd Signalization Plans

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H37	--

NOTE:

1. INSTALL 1-1c#8 IN ALL CONDUITS UNLESS ANOTHER GROUND CONDUCTOR IS SPECIFIED.



WIRING LEGEND:

——— I/C ——— INDICATES NEW INTERCONNECT RUN

- - - - - - - - INDICATES EXISTING CONDUIT RUN

— — — — INDICATES NEW RIGID METAL CONDUIT RUN(S)

- - - -E— — INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

WIRING DIAGRAM CODING LEGEND

OPC = OPTICOM CABLE
LL = LOOP LEAD-IN
INT = INTERCONNECT CABLE
PWR = POWER CONDUCTORS FOR SIGNAL CONTROLLER
T = TRANSFORMER

GND = GROUND
ILL = ILLUMINATION
RMC = RIGID METAL CONDUIT
PVC = POLYVINYLCHLORIDE CONDUIT

PPB = PEDESTRIAN PUSH-BUTTON
SIG = SIGNAL
PED = PEDESTRIAN SIGNAL
DET = DETECTION CONDUIT
F = FUTURE USE
PTZ = PAN, TILT, ZOOM CAMERA
E = EXISTING
RDET = RADAR DETECTION

5c#14 TRAFFIC SIGNALS
7c#14 PROTECTED-PERMITTED SIGNALS
5c#14 PEDESTRIAN SIGNALS
2c#14 PEDESTRIAN PUSH-BUTTON
3pr#18, 6pr#18, 9pr#18, 15pr#18 } LOOP LEAD-IN CABLE & VDET
3c#8 ILLUMINATION
3c#6 SIGNAL POWER
1c#8 BARE COPPER GROUND
18pr#19 PE-39 INTERCONNECT CABLE
1c#6 BARE COPPER GROUND
3C#14 PAN, TILT, ZOOM CAMERA APT MATRIX 2 RDET HOME RUN CABLE

NOBLE ST – 2ND AVE
SIGNALIZATION PLANS 2 OF 4

STATE OF ALASKA
49TH
SUBMITTAL
9/12/2014
JOHNSON
ENGINEER
8705
REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_2nd Wiring Diagram

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H38	--

SIGNAL SIGN SCHEDULE

SIGN NO.	LOCATION POLE NO.	LOCATION OFFSET	ASDS CODE	LEGEND	SIZE HxV (INCHES)	AREA (SQ FT)	BRACING/FRAMING BRACED	BRACING/FRAMING FRAMED	REMARKS
1	1	20.0	R3-2	NO LEFT TURN (SYMBOL)	24X24	4.00			
2	1	7.0	D3-1	2ND AVE	72X24	12.00		X	
3	2	16.0	D3-1	NOBLE ST	78X24	13.00		X	
4	3	12.0	R3-1	NO RIGHT TURN (SYMBOL)	24X24	4.00			
5	3	7.0	D3-1	2ND AVE	72X24	12.00		X	
6	3	0.0	R3-1L	ONE WAY	48x16	5.33			MOUNT TO SIGNAL SHAFT
7	3	0.0	R3-1R	ONE WAY	48x16	5.33			MOUNT TO SIGNAL SHAFT
8	4	22.0	R3-27	NO THRU MOVEMENT (SYMBOL)	24X24	4.00			
9	4	7.0	D3-1	NOBLE ST	78X24	13.00		X	
10	4	0.0	R3-1L	ONE WAY	48x16	5.33			MOUNT TO SIGNAL SHAFT
11	4	0.0	R3-1R	ONE WAY	48x16	5.33			MOUNT TO SIGNAL SHAFT
				SUBTOTAL SIGNAL SIGNS		83.32			

NOTE:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE

POLE-POST DESIGN LOADING SCHEDULE

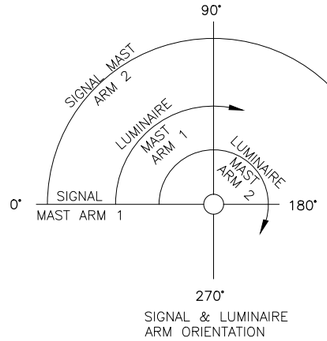
POLE NO.	CORNER	LUM# ARM L (FT.)	SIGNAL ARM L (FT.)		A	B	C	D	E	F	A-A	REMARKS
1	NE	15.0'	25'	SIG. OR SIGN	SIGN	SIGNAL	SIGN					MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	20.0	17.3	7.0					
				LxW OR S.F.	4.00	11.50	11.00					
2	SE	15.0'	50'	SIG. OR SIGN	SIGNAL	SIGNAL	SIGN					MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	47.5	21.9	16.0					
				LxW OR S.F.	11.50	11.50	11.00					
3	SW	15.0'	35'	SIG. OR SIGN	SIGNAL	SIGNAL	SIGN	SIGN				MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	32.7	20.4	12.0	7.0				
				LxW OR S.F.	11.50	11.50	4.00	11.00				
4	NW	15.0'	30	SIG. OR SIGN	SIGNAL	SIGN	SIGN					MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	24.9	22.0	7.0					
				LxW OR S.F.	11.50	2.00	11.00					

NOTES:
1. BOTH SIGNAL AND ILLUMINATION MAST ARMS ARE ORIENTATED IN THE SAME DIRECTION UNLESS NOTED OTHERWISE.
2. ORIENT SIGNAL MAST ARM(S) 90° TO ℄ OF ROADWAY UNLESS NOTED OTHERWISE.

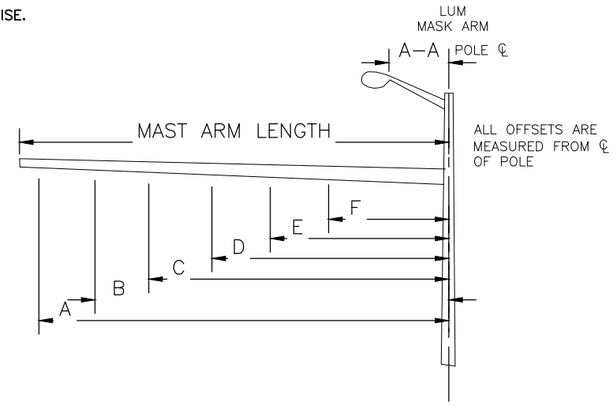
SIGNAL HEAD SCHEDULE

POLE/POST NO.	FACE NO.	INDICATIONS 12" BALL R	Y	G	12" ARROW R	Y	YF	G	8" BALL R	Y	G	MOUNTING MAST ARM LOC. OFFSET	ELEV. PLUMB	SIDE MTNG. TYPE	TOP OF POST	REMARKS
1	41	X	X	X										D		
	24				L	L	L							D		
	42	X	X	X								17.3	X			
2	84				L	L	L							D		
	21	X	X	X										D		
	22	X	X	X								21.9	X			
	23				L	L	L					47.5				
3	81	X	X	X										D		
	82	X	X	X								20.4	X			
	83				L	L	L					32.7	X			
4	61	X	X	X										D		
	62	X	X	X								24.9	X			

NOTES:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE.
2. YF = YELLOW FLASHING ARROW.

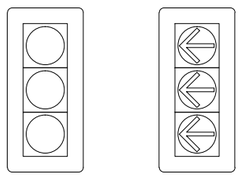


SIGNAL & LUMINAIRE ARM ORIENTATION



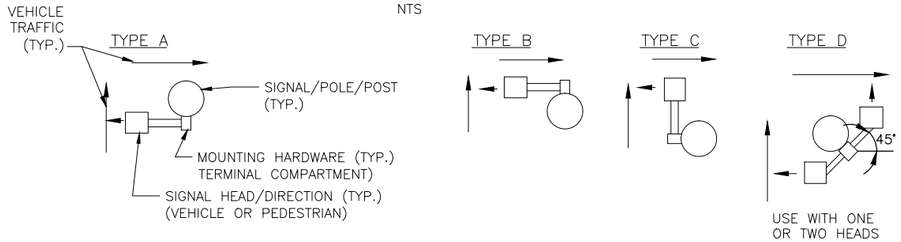
SIGNAL HEAD CONFIGURATIONS

(AREAS ARE FOR WIND LOAD CALCULATIONS)



POLE/POST SIGNAL HEAD SIDE MOUNTING TYPES

NTS



PED SIGNAL HEAD SCHEDULE

POLE/POST NO.	FACE NO.	MOUNTING TYPE	REMARKS
1	69	P	
	48	P	
2	28	P	
	49	P	
3	29	P	
	88	P	
4	68	P	
	89	P	

NOBLE ST – 2ND AVE
SIGNALIZATION PLANS 3 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_2nd Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H39	--

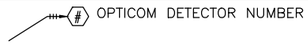
BASE & JUNCTION BOX SCHEDULE

LOCATION		DESCRIPTION			BASE TYPE*			JUNCTION BOX TYPE				REMARKS
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CONTROLLER	CIDH	P	A	IA	II	III	IV	
30+55	29.5', RT	1			X							INSTALL AT BACK OF SIDEWALK
29+88	28.0', RT	2			X							INSTALL AT BACK OF SIDEWALK
29+98	32.7', LT	3			X							INSTALL AT BACK OF SIDEWALK
30+52	28.6', LT	4			X							
30+48	37.6', RT		1							X		INSTALL AT BACK OF SIDEWALK
29+84	27.8', RT		2						X			INSTALL AT BACK OF SIDEWALK
29+98	36.8', LT		3						X			
30+49	41.0', LT		4						X			INSTALL AT BACK OF SIDEWALK
30+48	43.1', RT			X								INSTALL AT BACK OF SIDEWALK

* P = PRECAST BASE (FOUNDATION)
A = TYPE A SEE T-31
CIDH = CAST IN DRILLED HOLE

OPTICOM DETECTOR SCHEDULE

LOCATION	DET. NO.	PHASE CALL	FACING DIR.	PREEMPTOR PRIORITY
ON TOP OF SIGNAL HEAD 42	1	4	SOUTH	
ON TOP OF SIGNAL HEAD 23	2	2	WEST	
ON TOP OF SIGNAL HEAD 82	3	8	NORTH	
ON TOP OF SIGNAL HEAD 62	4	6	EAST	



FLASH PROGRAM COLOR

PHASE	1	2	3	4	5	6	7	8
COLOR	N/A	R	N/A	R	N/A	R	N/A	R

NOBLE ST – 2ND AVE
SIGNALIZATION PLANS 4 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_2nd Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H40	--

PHASE SEQUENCE

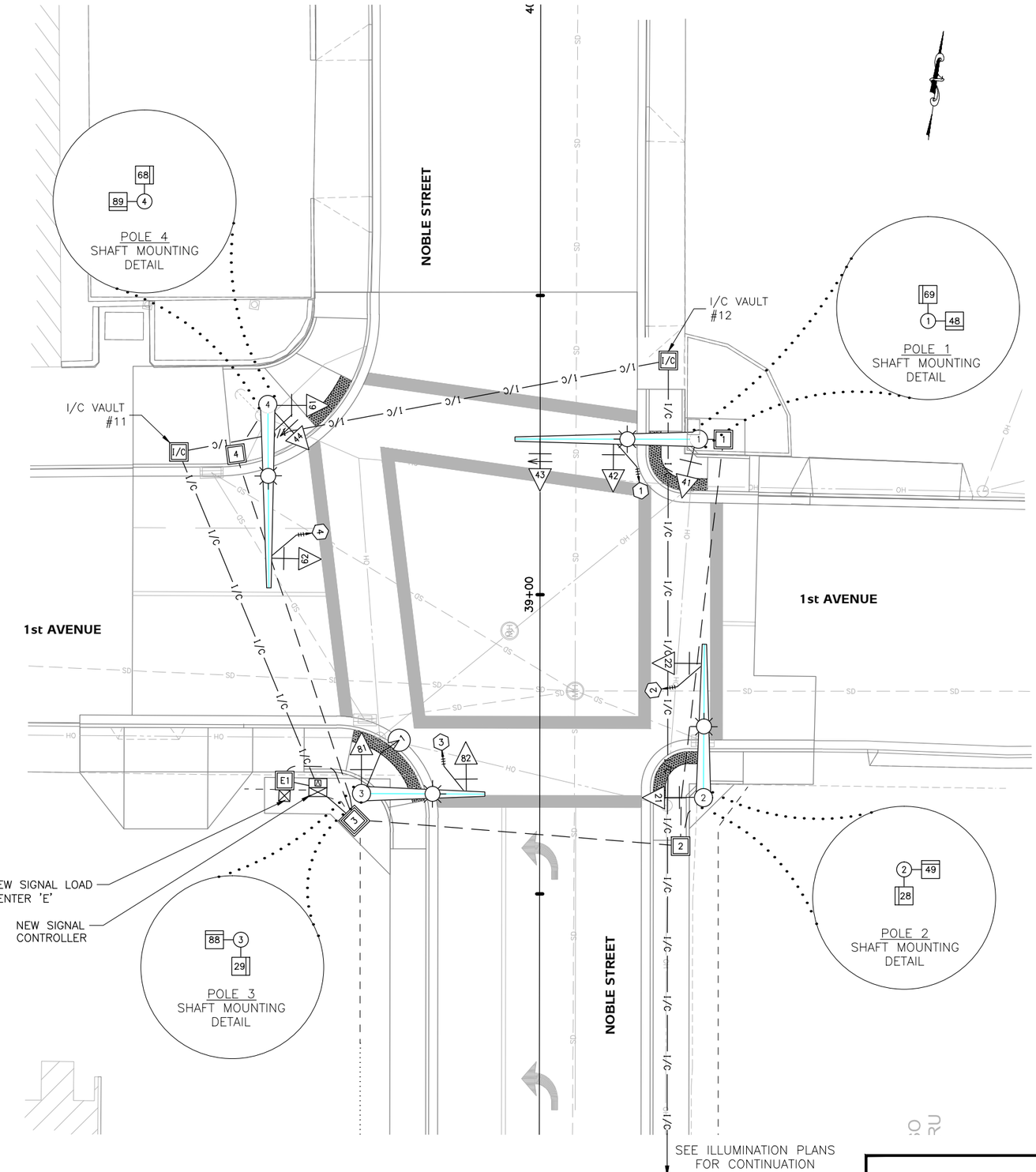
PHASING	
1 N/A	5 N/A
2 	6 
3 N/A	7 N/A
4 	8 

PED MOVEMENT

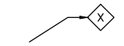
VEH. MOVEMENT

LEFT TURN MOVEMENT (PROTECTED)

LEFT TURN MOVEMENT (PERMISSIVE)

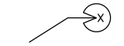


SUPPLEMENTAL LEGEND

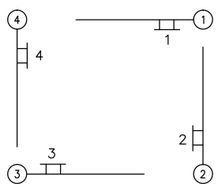


VIDEO DETECTOR

OPTICOM DETECTOR



PAN, TILT, ZOOM CAMERA



SIGN PLACEMENT

NOBLE ST – 1ST AVE
SIGNALIZATION PLANS 1 OF 4

STATE OF ALASKA
49TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

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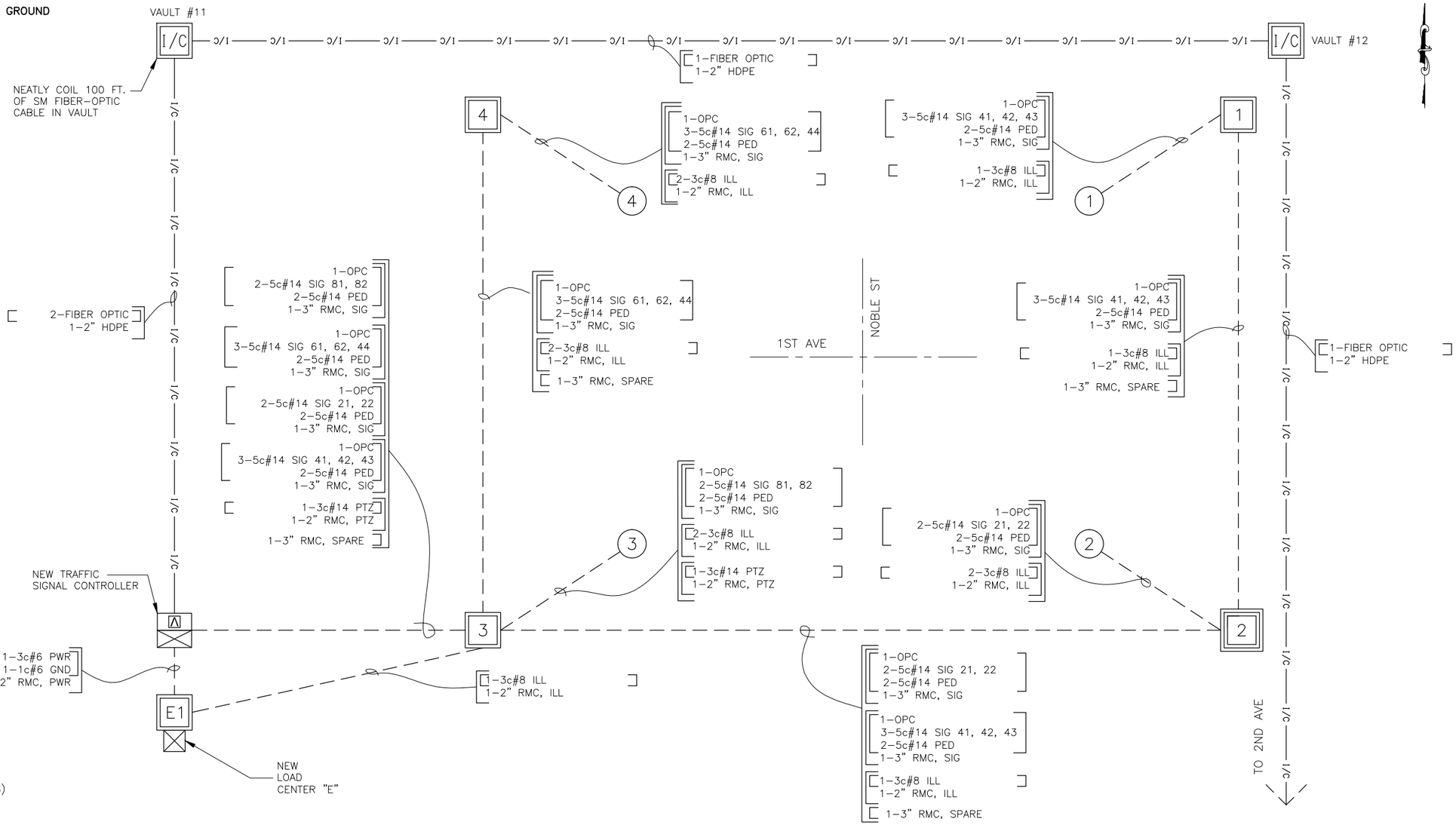
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H41	--

NOTE:

1. INSTALL 1-1c#8 IN ALL CONDUITS UNLESS ANOTHER GROUND CONDUCTOR IS SPECIFIED.



WIRING LEGEND:

- I/C — INDICATES NEW INTERCONNECT RUN
- INDICATES EXISTING CONDUIT RUN
- INDICATES NEW RIGID METAL CONDUIT RUN(S)
- INDICATES THE CONNECTION BETWEEN EXISTING AND NEW CONDUIT

WIRING DIAGRAM CODING LEGEND

OPC = OPTICOM CABLE
LL = LOOP LEAD-IN
INT = INTERCONNECT CABLE
PWR = POWER CONDUCTORS FOR SIGNAL CONTROLLER
T = TRANSFORMER

GND = GROUND
ILL = ILLUMINATION
RMC = RIGID METAL CONDUIT
PVC = POLYVINYLCHLORIDE CONDUIT

PPB = PEDESTRIAN PUSH-BUTTON
SIG = SIGNAL
PED = PEDESTRIAN SIGNAL
DET = DETECTION CONDUIT
F = FUTURE USE
PTZ = PAN, TILT, ZOOM CAMERA
E = EXISTING
RDET = RADAR DETECTION

5c#14 TRAFFIC SIGNALS
7c#14 PROTECTED-PERMITTED SIGNALS
5c#14 PEDESTRIAN SIGNALS
2c#14 PEDESTRIAN PUSH-BUTTON
3pr#18, 6pr#18, 9pr#18, 15pr#18 } LOOP LEAD-IN CABLE & VDET
3c#8 ILLUMINATION
3c#6 SIGNAL POWER
1c#8 BARE COPPER GROUND
18pr#19 PE-39 INTERCONNECT CABLE
1c#6 BARE COPPER GROUND
3C#14 PAN, TILT, ZOOM CAMERA APT MATRIX 2 RDET HOME RUN CABLE

NOBLE ST – 1ST AVE
SIGNALIZATION PLANS 2 OF 4

STATE OF ALASKA
49TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8708
REGISTERED PROFESSIONAL ENGINEER

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_1st Wiring Diagram

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H42	--

SIGNAL SIGN SCHEDULE

SIGN NO.	LOCATION		ASDS CODE	LEGEND	SIZE HxV (INCHES)	AREA (SQ FT)	BRACING/FRAMING		REMARKS
	POLE NO.	OFFSET					BRACED	FRAMED	
1	1	7.0'	D3-1	1ST AVE	66X24	11.00		X	
2	2	7.0'	D3-1	NOBLE ST	78X24	13.00		X	
3	3	7.0'	D3-1	1ST AVE	66X24	11.00		X	
4	4	7.0'	D3-1	NOBLE ST	78X24	13.00		X	
				SUBTOTAL SIGNAL SIGNS		48.00			

NOTE:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE

POLE-POST DESIGN LOADING SCHEDULE

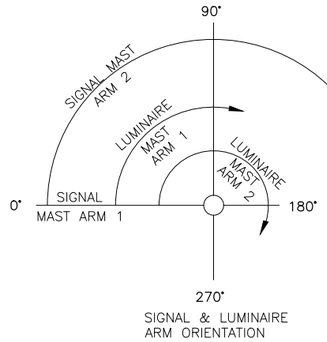
POLE NO.	CORNER	LUM# ARM L (FT.)	SIGNAL ARM L (FT.)		A	B	C	D	E	F	A-A	REMARKS
1	NE	15.0'	30'	SIG. OR SIGN	SIGNAL	SIGNAL	SIGN					MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	26.4	14.2	7.0					
				LxW OR S.F.	11.50	11.50	12.00					
2	SE	15.0'	25'	SIG. OR SIGN	SIGNAL	SIGN						MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	22.5	7.0						
				LxW OR S.F.	11.50	13.00						
3	SW	15.0'	20'	SIG. OR SIGN	SIGNAL	SIGN						MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	17.6	7.0						
				LxW OR S.F.	11.50	12.00						
4	NW	15'	30	SIG. OR SIGN	SIGNAL	SIGN						MOUNT LUMINAIRE ARM @ 0°
				LOC. OFFSET	25.7	7.0						
				LxW OR S.F.	11.50	13.00						

NOTES:
1. BOTH SIGNAL AND ILLUMINATION MAST ARMS ARE ORIENTATED IN THE SAME DIRECTION UNLESS NOTED OTHERWISE.
2. ORIENT SIGNAL MAST ARM(S) 90° TO ℄ OF ROADWAY UNLESS NOTED OTHERWISE.

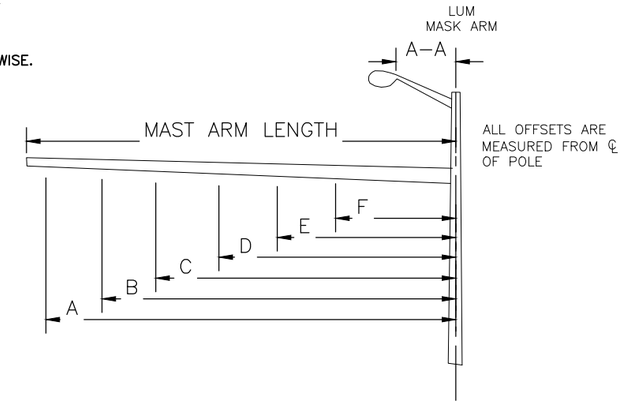
SIGNAL HEAD SCHEDULE

POLE/ POST NO.	FACE NO.	INDICATIONS										MOUNTING				REMARKS
		12" BALL			12" ARROW				8" BALL			MAST ARM		SIDE MTNG. TYPE	TOP OF POST	
		R	Y	G	R	Y	YF	G	R	Y	G	LOC. OFFSET	ELEV. PLUMB			
1	41	X	X	X										D		
	42	X	X	X								14.2	X			
	43				L	L	L					26.4	X			
2	21	X	X	X										D		
	22	X	X	X								27.4	X			
3	81	X	X	X										D		
	82	X	X	X								17.5	X			
4	44				L	L	L							D		
	61	X	X	X										D		
	62	X	X	X								25.7	X			

NOTES:
1. LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE.
2. YF = YELLOW FLASHING ARROW.

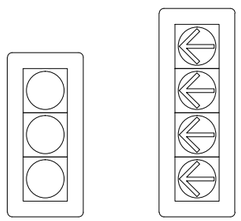


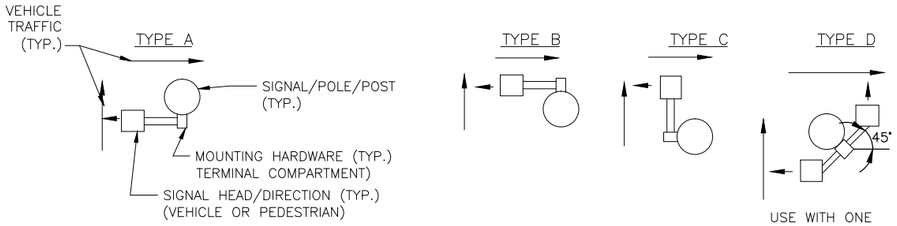
SIGNAL & LUMINAIRE ARM ORIENTATION

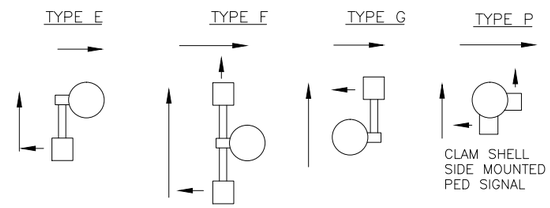


SIGNAL HEAD CONFIGURATIONS

(AREAS ARE FOR WIND LOAD CALCULATIONS)







PED SIGNAL HEAD SCHEDULE

POLE/ POST NO.	FACE NO.	MOUNTING TYPE	REMARKS
1	69	P	
	48	P	
2	28	P	
	49	P	
3	29	P	
	88	P	
4	68	P	
	89	P	

NOBLE ST – 1ST AVE
SIGNALIZATION PLANS 3 OF 4

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H43	--

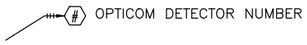
BASE & JUNCTION BOX SCHEDULE

LOCATION		DESCRIPTION			BASE TYPE*			JUNCTION BOX TYPE				REMARKS
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CONTROLLER	CIDH	P	A	IA	II	III	IV	
32+66	26.4', RT	1			X							
32+06	27.3', RT	2			X							INSTALL AT BACK OF SIDEWALK
32+06	29.8', LT	3			X							INSTALL AT BACK OF SIDEWALK
32+71	45.5', LT	4			X							
32+66	30.6', RT		1						X			
31+98	23.6', RT		2							X		INSTALL AT BACK OF SIDEWALK
32+01	31.0', LT		3						X			INSTALL AT BACK OF SIDEWALK
32+63	50.8', LT		4						X			
32+07	37.2', LT			X								INSTALL AT BACK OF SIDEWALK

* P = PRECAST BASE (FOUNDATION)
A = TYPE A SEE T-31
CIDH = CAST IN DRILLED HOLE

OPTICOM DETECTOR SCHEDULE

LOCATION	DET. NO.	PHASE CALL	FACING DIR.	PREEMPTOR PRIORITY
ON TOP OF SIGNAL HEAD 42	1	4	SOUTH	
ON TOP OF SIGNAL HEAD 22	2	2	WEST	
ON TOP OF SIGNAL HEAD 82	3	8	NORTH	
ON TOP OF SIGNAL HEAD 62	4	6	EAST	



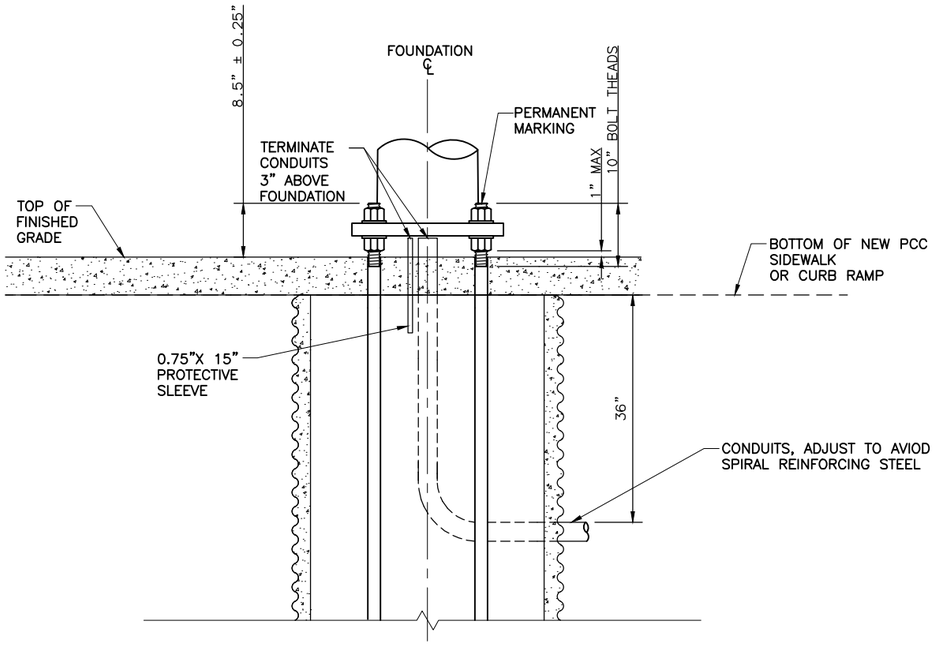
FLASH PROGRAM COLOR

PHASE	1	2	3	4	5	6	7	8
COLOR	N/A	R	N/A	R	N/A	R	N/A	R

NOBLE ST – 1ST AVE
SIGNALIZATION PLANS 4 OF 4

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble_1st Signal Schedules

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H44	--

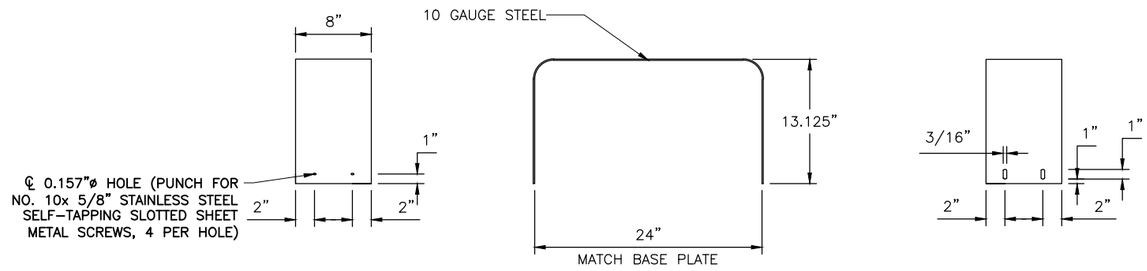


SIGNAL FOUNDATION DETAIL

NTS
(SKIRT OMITTED FOR CLARITY)

NOTES:

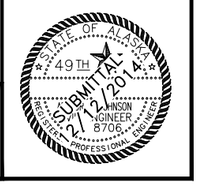
1. THIS SHEET MODIFIES STANDARD DETAIL T-52.20
2. PROVIDE SKIRT AROUND BASE PLATE. GALVANIZE SKIRT IN ACCORDANCE WITH ASTM A653. MAXIMUM GAP BETWEEN SKIRT AND FOUNDATION IS 1/16".



SKIRT DETAILS

(TWO REQUIRED PER POLE)
NTS

SIGNAL FOUNDATION "A"



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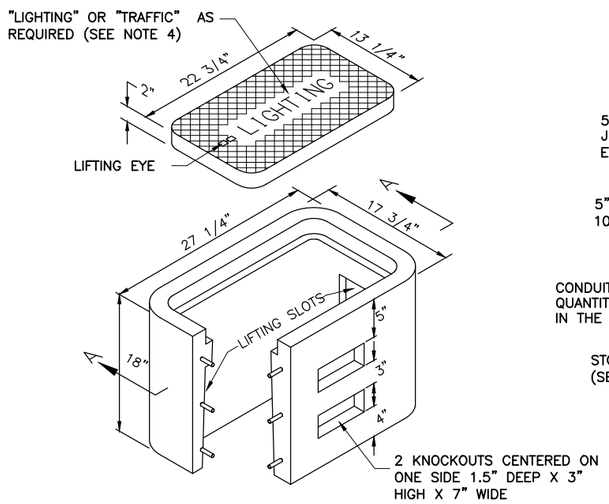
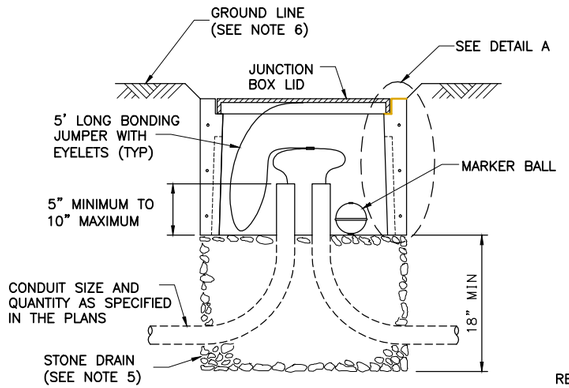
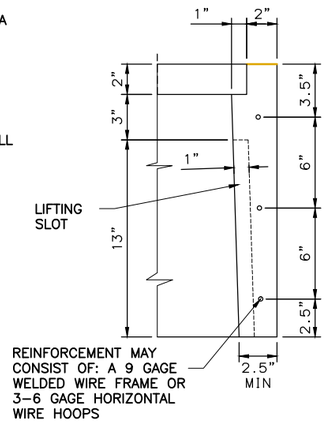
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H45	--



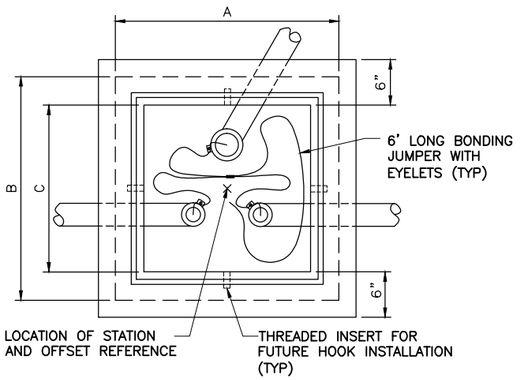


SECTION A-A

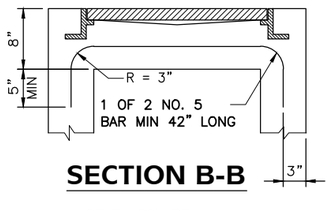


DETAIL A

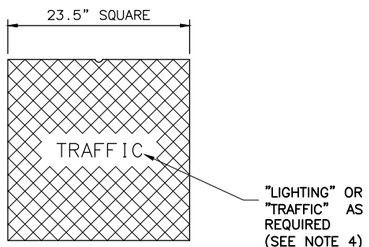
TYPE IA JUNCTION BOX



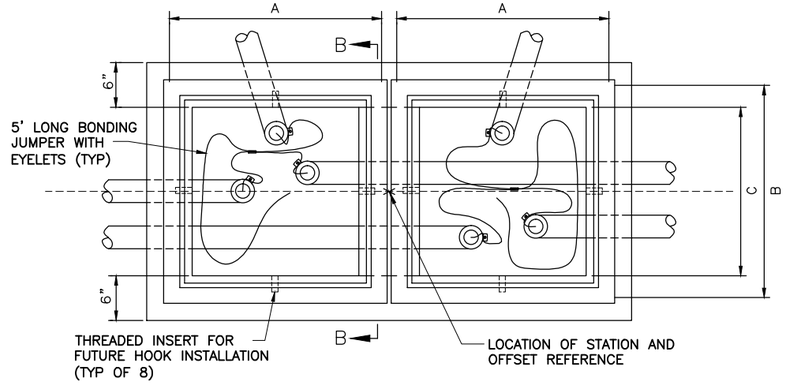
PLAN



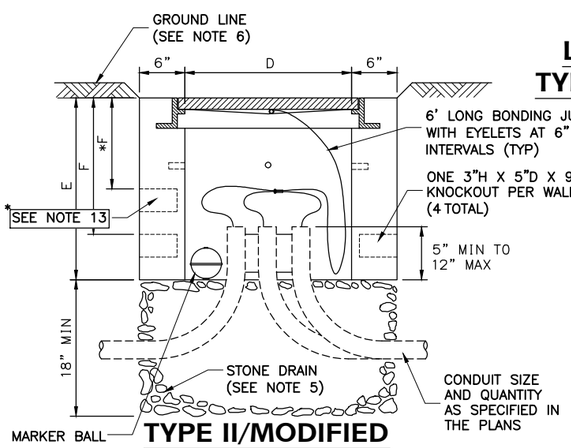
SECTION B-B



LID FOR TYPE II, MOD. TYPE II & TYPE III J-BOXES

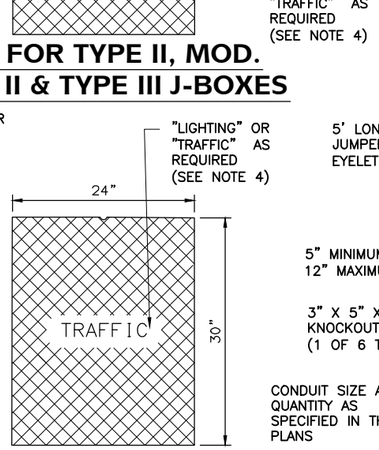


PLAN

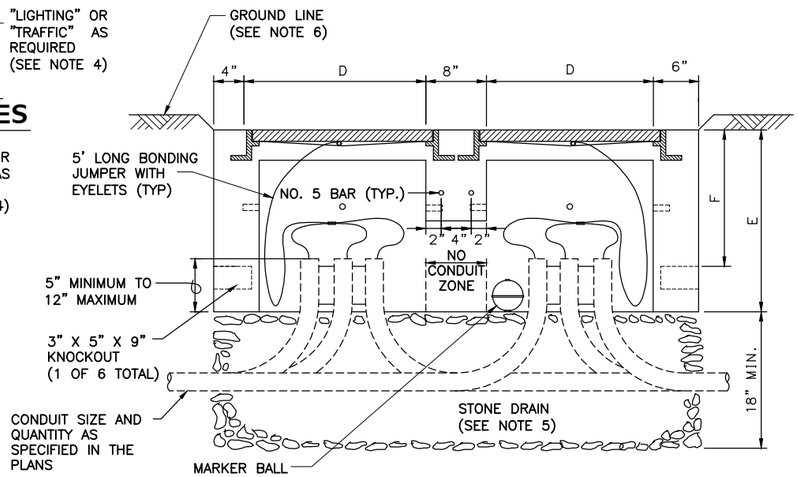


TYPE II/MODIFIED TYPE II JUNCTION BOX

ELEVATION
*=APPLICABLE TO MODIFIED TYPE II JUNCTION BOX



LID FOR TYPE IV J-BOXES



TYPE III/IV JUNCTION BOX

ELEVATION (TYPE III LAYOUT DEPICTED)

NOTES:

1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD LIGHTING INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD TRAFFIC INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
   - 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
   - 1/4" IN PEDESTRIAN FACILITIES
   - 2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH STAINLESS STEEL HARDWARE.
8. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
9. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
10. PROVIDE CONDUIT GROUNDING BUSHINGS AND BOND TO 3/4"X10' COPPER CLAD GROUND ROD WITH #8 BARE COPPER BONDING WIRE (AS REQUIRED).
11. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.

J-BOX DIMENSIONS

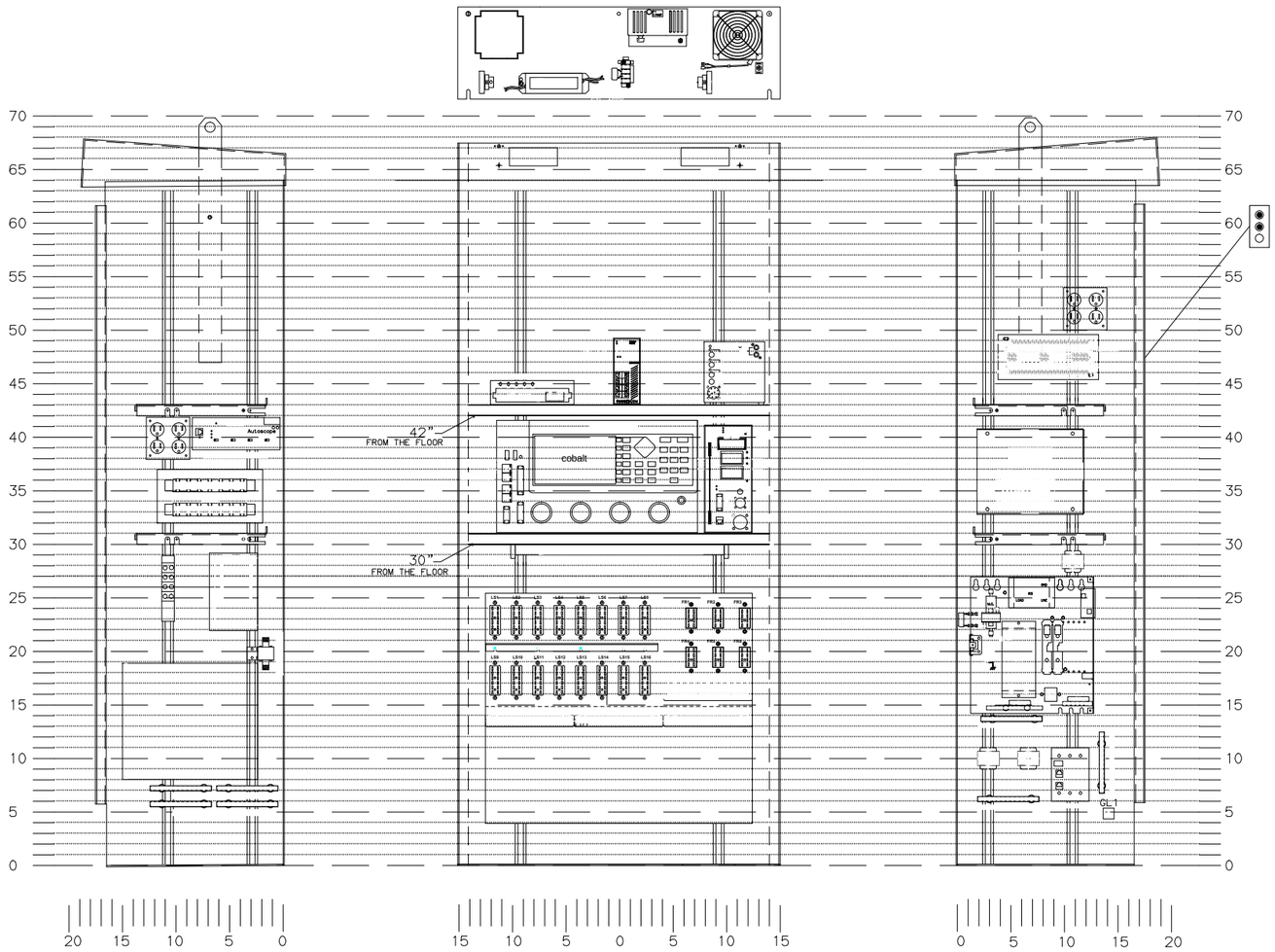
J-BOX TYPE	DIMENSIONS					
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)	F
II	29 1/2"	29 1/2"	22"	22"	24"	18"
MOD.II	29 1/2"	29 1/2"	22"	22"	24"	12"
III	29 1/2"	29 1/2"	22"	22"	24"	18"
IV	30"	36"	30"	24"	30"	18"

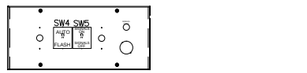
STATE OF ALASKA 49TH
SUBMITTAL 2/12/2014
JOHNSON ENGINEER 8706
REGISTERED PROFESSIONAL ENGINEER

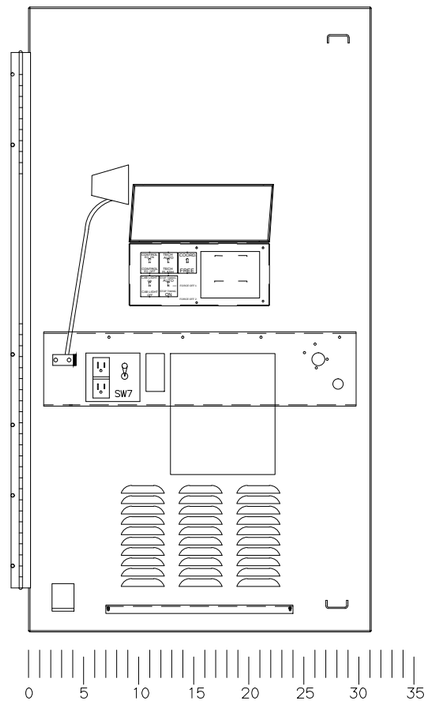
JUNCTION BOX DETAILS

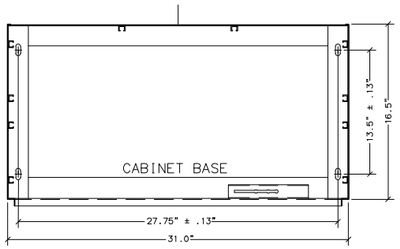
Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble Controller Cabinet Found Detl

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H46	--





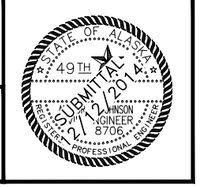




NOTES:

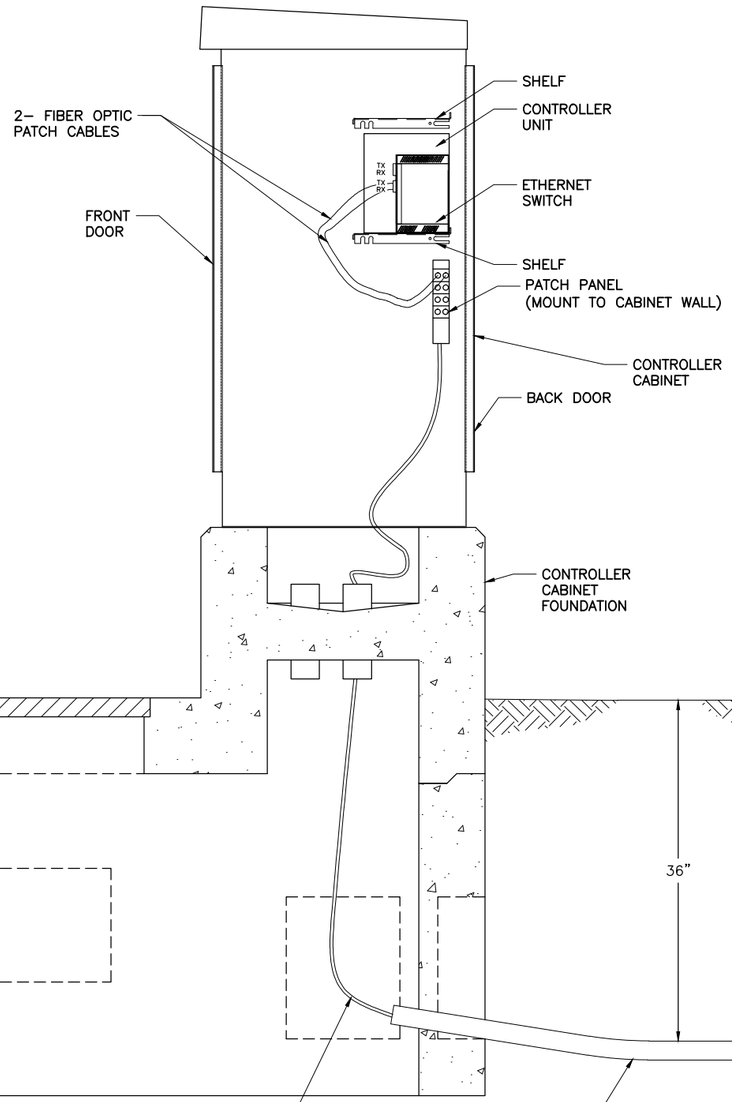
1. PROVIDE SPARE SDLC CABLE IN CABINET.
2. PROVIDE FULLY FUNCTIONING FACTORY WIRED CABINET.
4. PROVIDE TWO SHELVES INSIDE THE CABINET.

CONTROLLER CABINET TYPE "M" EXTENDED



Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Type M_CONTROLLER-CABINET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H47	--

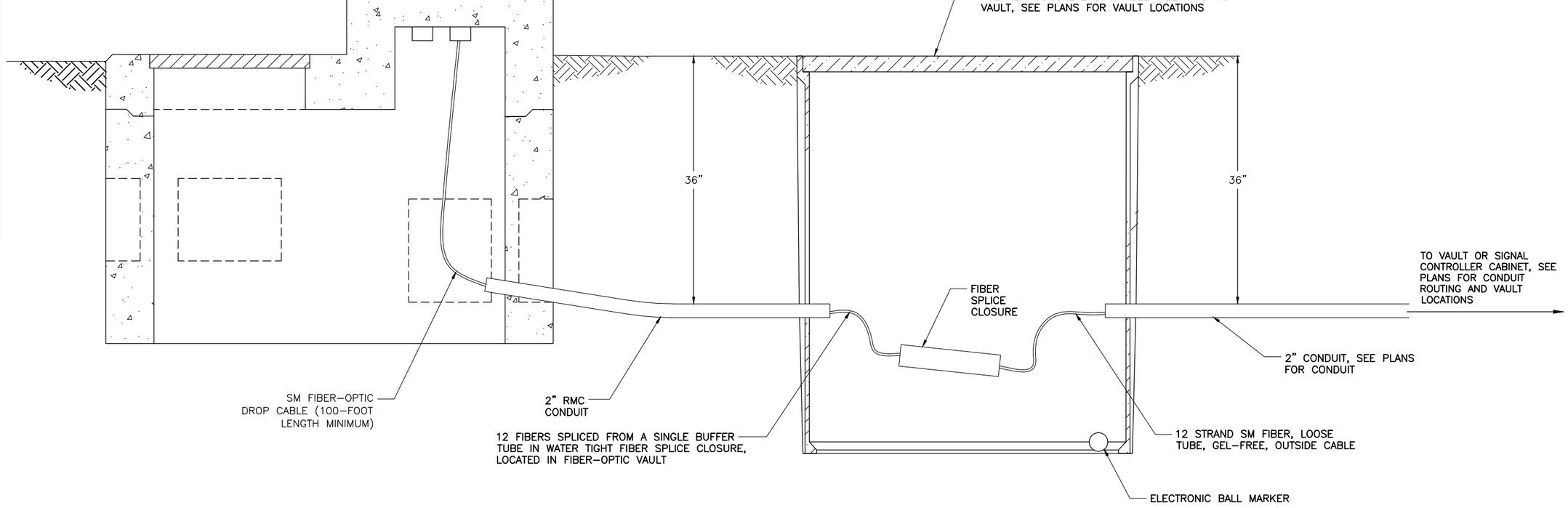


FIBER SYSTEM MATERIAL REQUIREMENTS

ALL ASSEMBLIES	
PATCH PANEL	GATOR PATCH (TM) ITS DROP CABLE PROVIDE A 3 STEP, 6 FIBER OR 6 STEP, 12 FIBER AS REQUIRED
ETHERNET SWITCH	RUGGEDCOM RS940G OR APPROVED EQUAL

FIBER OPTIC NOTES:

1. MOUNT PATCH PANEL IN RECESSED AREA BELOW CABINET AND IN A LOCATION AS TO NOT INTERFERE WITH OTHER EQUIPMENT AND SUCH THAT IT IS READILY ACCESSIBLE. PROVIDE SUFFICIENT SLACK CABLE IN CABINET TO ALLOW THE PATCH CABLE TO BE RELOCATED AT ANY LOCATION IN THE CABINET.
2. CONNECT THE SHELF MOUNTED ETHERNET SWITCH TO THE PATCH PANEL WITH TWO SINGLE MODE FIBER PATCH CABLES. THE CABLES SHALL BE OF SUFFICIENT LENGTH TO ALLOW FOR MOVING OF THE ETHERNET SWITCH TO ANY SHELF LOCATION IN THE CABINET ONCE THE PATCH PANEL HAS BEEN INSTALLED.
3. NO SPLICES ARE PERMITTED EXCEPT WHERE SPECIFICALLY INDICATED IN THE PLANS. SPLICE CLOSURES MUST CONFORM TO SECTION 662-3.10 OF THE SPECIFICATIONS.
4. PROVIDE FOUR (EACH) ETHERNET CABLES OF FOUR FOOT LENGTH FOR EACH CABINET RECEIVING AN ETHERNET SWITCH, TO BE CONNECTED TO CABINET COMPONENTS AS DIRECTED BY THE ENGINEER.
5. USE LC TYPE CONNECTORS TO TERMINATE ALL FIBERS TO PATCH PANEL AND ETHERNET SWITCH.
6. FIBER OPTIC CABLE SUPPORT ASSEMBLY NOT SHOWN FOR CLARITY. PROVIDE SUPPORT ASSEMBLY AND SURPLUS CABLING IN ACCORDANCE WITH SECTIONS 662-2.06 AND 662-3.01.
7. ITEMS SHOWN IN MATERIAL REQUIREMENTS TABLE ARE NOT FOR QUANTITY PURPOSES.



FIBER OPTIC INTERCONNECT DETAILS

STATE OF ALASKA
49TH
SUBMITTAL
12/12/2014
JOHNSON
ENGINEER
8706
REGISTERED PROFESSIONAL ENGINEER

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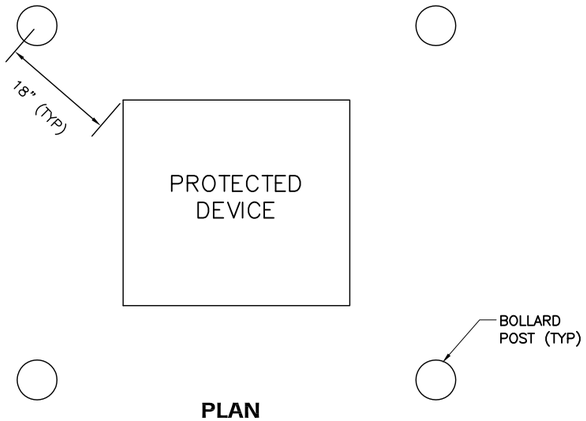
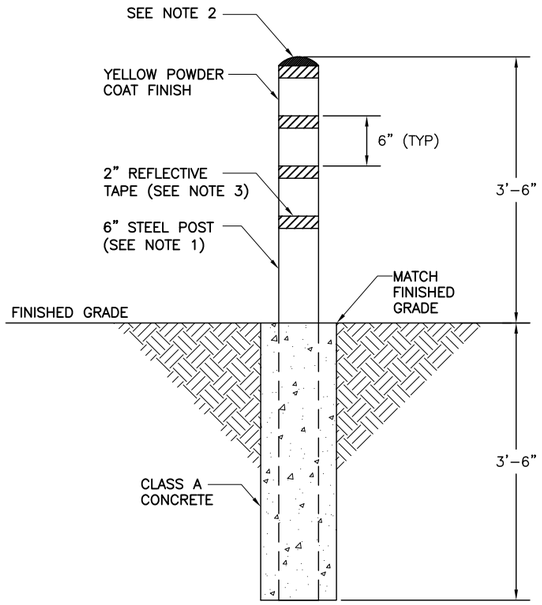
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H48	--



PLAN

LOCATE POSTS AS SHOWN PER PLAN

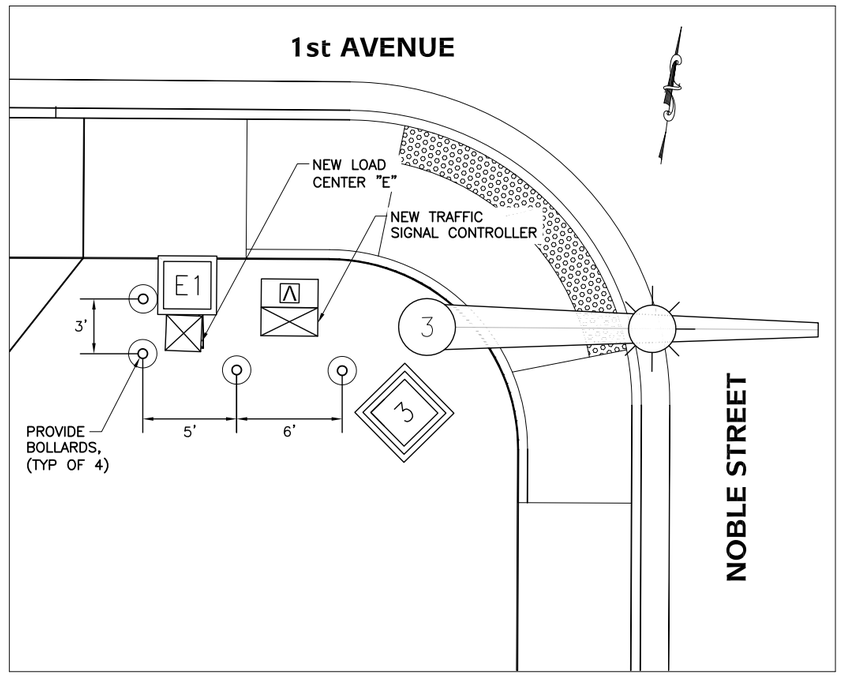


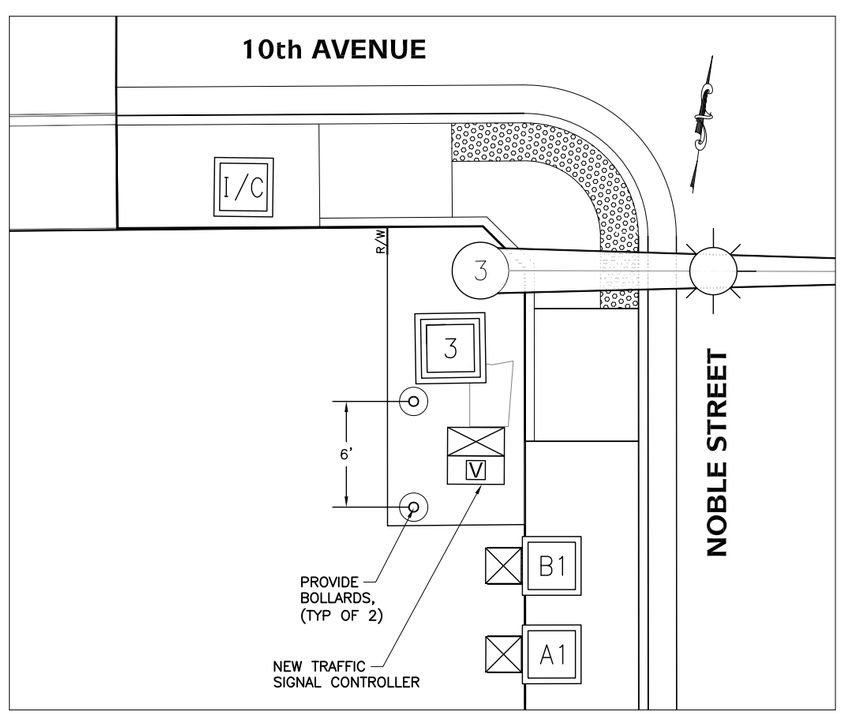
BOLLARD POST DETAIL

ELEVATION

NOTES:

1. PROVIDE 6" DIA. STEEL, SCHEDULE #40 PIPE, FILLED WITH CONCRETE.
2. ROUND CONCRETE AT TOP OF POST SMOOTH AND PAINT YELLOW.
3. INSTALL 4-2" BANDS OF YELLOW REFLECTIVE TAPE AS SHOWN.
4. LOCATION AND QUANTITY OF POSTS AS INDICATED ON DRAWINGS.





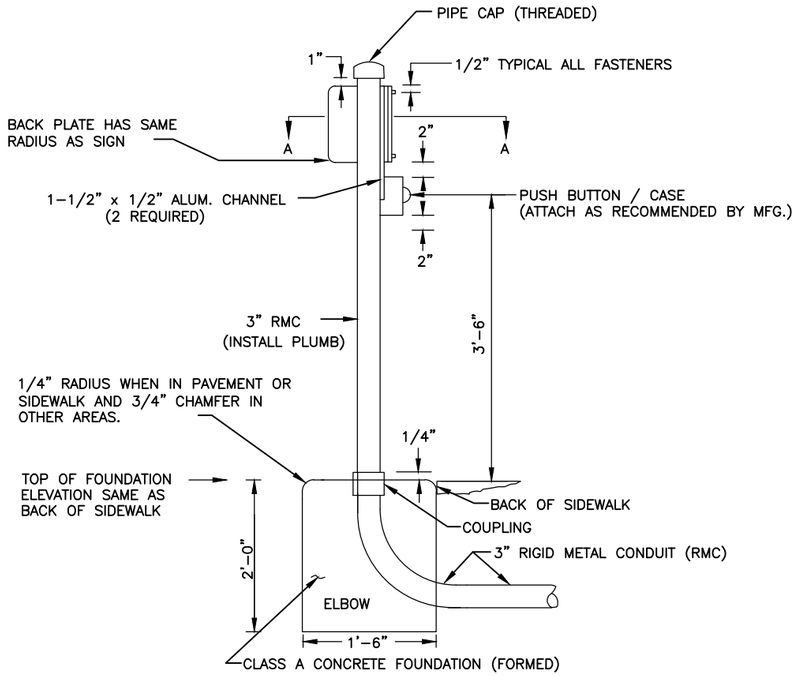
BOLLARD PLAN & DETAILS

STATE OF ALASKA 49TH SUBMITTAL 2/12/2014 WILSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

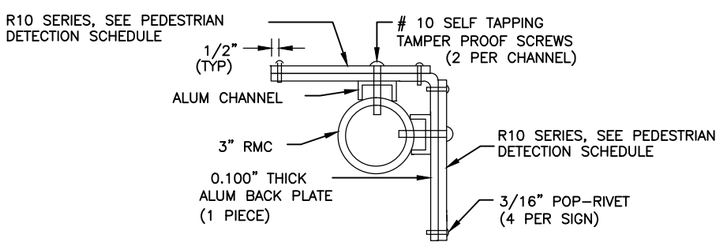
Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble Sigl Grad & Cond Detls

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H49	--

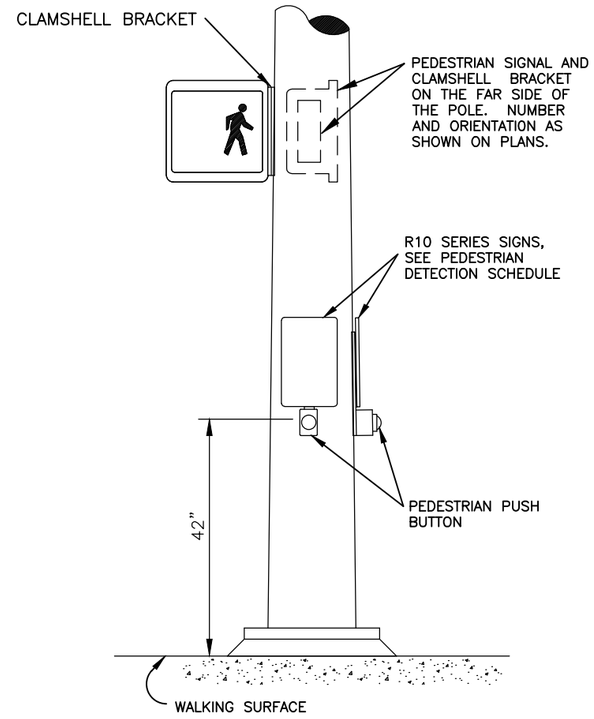
PEDESTRIAN PUSH BUTTON POST & SIGN DETAILS



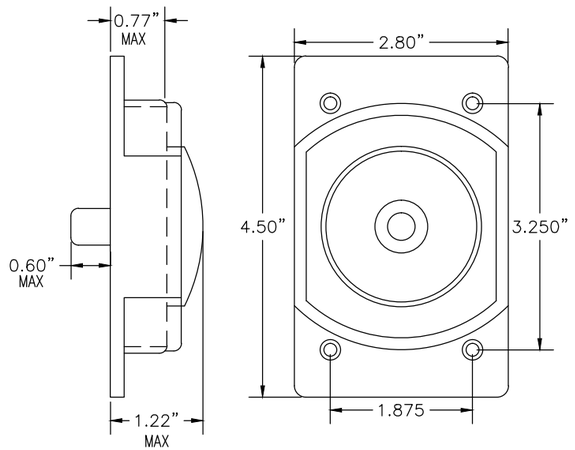
WHEN ONLY ONE SIGN & BUTTON IS REQUIRED THE BACK PLATE SHALL BE THE SAME SIZE AS THE SIGN AND SHALL BE CENTERED ON THE POST AND ALUM. CHANNEL.



SECTION A-A



SIGNAL POLE MOUNTED PEDESTRIAN HARDWARE & SIGNAGE



PEDESTRIAN PUSH BUTTON DETAIL

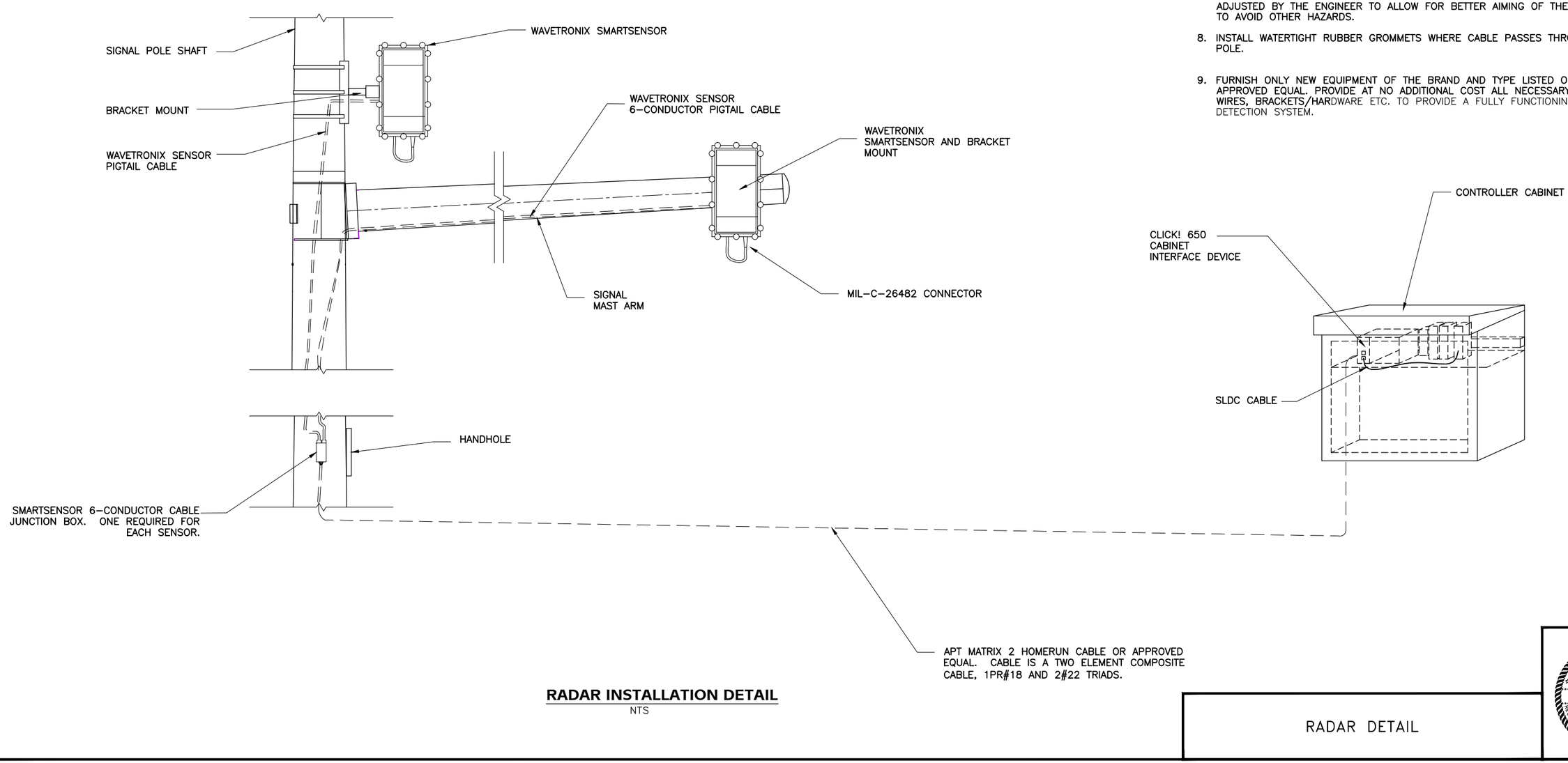
PEDESTRIAN PUSH BUTTON
POST & SIGN DETAILS

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\Noble Ped Push Button Detl

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H50	--

RADAR INSTALLATION NOTES:

1. PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.
2. PULL CABLE IN ACCORDANCE WITH SECTION 660 OF THE SPECIAL PROVISIONS. PULL CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLES ARE TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS INSTALL AND MAKE FINAL CONNECTIONS.
3. CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES.
4. CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT CONTRACTORS EXPENSE.
5. THE MINIMUM BEND RADIUS SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS.
6. ENSURE ADEQUATE LENGTH OF EACH CABLE TO ALLOW WORK ON THE ENDS OF THE CABLE IN THE CONTROLLER CABINET, AT THE POLE MOUNT ENCLOSURE AND RADAR MOUNTING LOCATION.
7. MOUNT THE RADAR AT THE LOCATION STATED IN THE PLANS. PLACEMENT MAY BE ADJUSTED BY THE ENGINEER TO ALLOW FOR BETTER AIMING OF THE RADAR OR TO AVOID OTHER HAZARDS.
8. INSTALL WATERTIGHT RUBBER GROMMETS WHERE CABLE PASSES THROUGH THE POLE.
9. FURNISH ONLY NEW EQUIPMENT OF THE BRAND AND TYPE LISTED OR ITS APPROVED EQUAL. PROVIDE AT NO ADDITIONAL COST ALL NECESSARY DEVICES, WIRES, BRACKETS/HARDWARE ETC. TO PROVIDE A FULLY FUNCTIONING RADAR DETECTION SYSTEM.



RADAR INSTALLATION DETAIL
NTS

RADAR DETAIL

STATE OF ALASKA
49TH
SUBMITTAL
12/2/2014
JOHNSON
ENGINEER
8708
REGISTERED PROFESSIONAL ENGINEER

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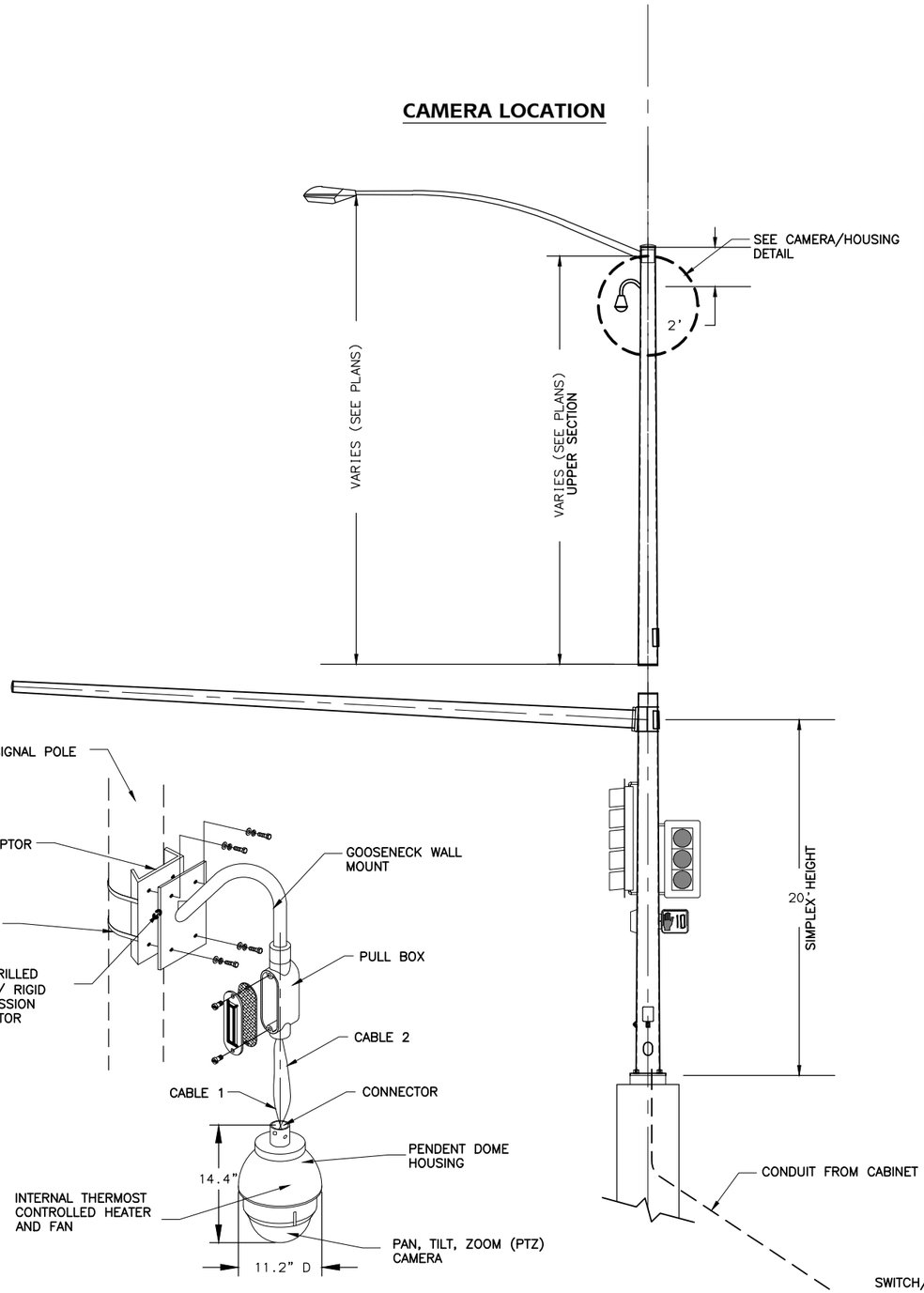
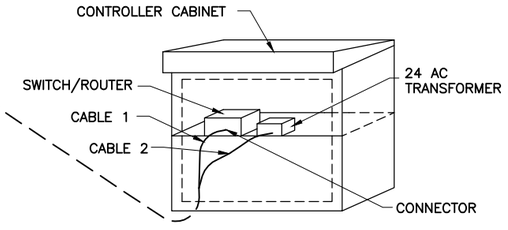
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H51	--

CAMERA LOCATION



CAMERA/HOUSING DETAIL
NTS

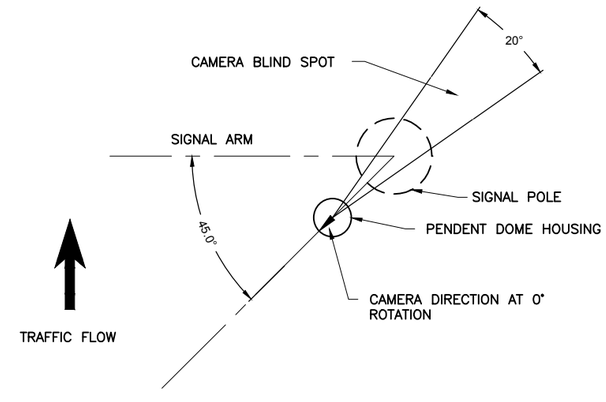
SYSTEM LAYOUT
NTS



MATERIAL REQUIREMENTS	
ALL ASSEMBLIES	
MOUNTING BRACKET	PELCO TRITON BRACKET OR APPROVED EQUAL
POLE MOUNT ADAPTOR	SONY UNI-PMA1 OR APPROVED EQUAL
GOOSENECK WALL MOUNT	SONY UNI-WMB1 OR APPROVED EQUAL
24V AC TRANSFORMER	PSH100AB10 OR APPROVED EQUAL
CABLE 1	CAT-5E, SHIELDED, DIRECT BURIAL
CABLE 2	3C14 (ACCORDING TO MANUFACTURES RECOMMENDATIONS)
CONNECTOR	ENVIRONMENTALLY HARDENED RJ-45
STRAIN RELIEF	REMKE 2201-013 OR APPROVED EQUAL
CAMERA	
CAMERA	SONY NETWORK CAMERA SNC-EP520 OR APPROVED EQUAL
HOUSING	
PENDANT DOME HOUSING	SONY HOUSING UNI-ORL7T2 OR APPROVED EQUAL

NOTES:

1. PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.
2. PULL CABLE IN ACCORDANCE WITH SECTION 660 OF THE SPECIAL PROVISIONS. PULL CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLES ARE TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS INSTALL AND MAKE FINAL CONNECTIONS.
3. CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES EXCEPT FOR IN LOCATION SHOWN IN SPICE DETAIL WITH SPECIFIED CONNECTOR.
4. CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT NO ADDITIONAL COST.
5. THE MIN BEND RADIUS SHALL NOT EXCEED THE MANUFACTURERS RECOMMENDATIONS.
6. ENSURE ADEQUATE LENGTH OF EACH CABLE TO ALLOW WORK ON THE ENDS OF THE CABLE IN THE CONTROLLER CABINET AND THE CAMERA MOUNTING LOCATION.
7. MOUNT THE PENDENT DOME HOUSING AT A 45° ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID WELDS, APPENDICES AND TO APPROVE SITE DISTANCE.
8. ADJUST CAMERA INSIDE THE PENDENT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0° TILT ANGLE.
9. INSTALL WATERTIGHT THREADED RIGID COMPRESSION CONNECTOR WHERE CABLE PASSES THROUGH THE POLE.
10. AT SPLICE LOCATION PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED. AFTER CONNECTION IS MADE COVER SPLICE WITH HEAT SHRINK. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.



CAMERA/PENDENT DOME ORIENTATION
NTS

STATE OF ALASKA 49TH SUBMITTAL 12/12/2014 JOHNSON ENGINEER 8706 REGISTERED PROFESSIONAL ENGINEER

PAN, TILT, ZOOM CAMERA MOUNTING DETAIL

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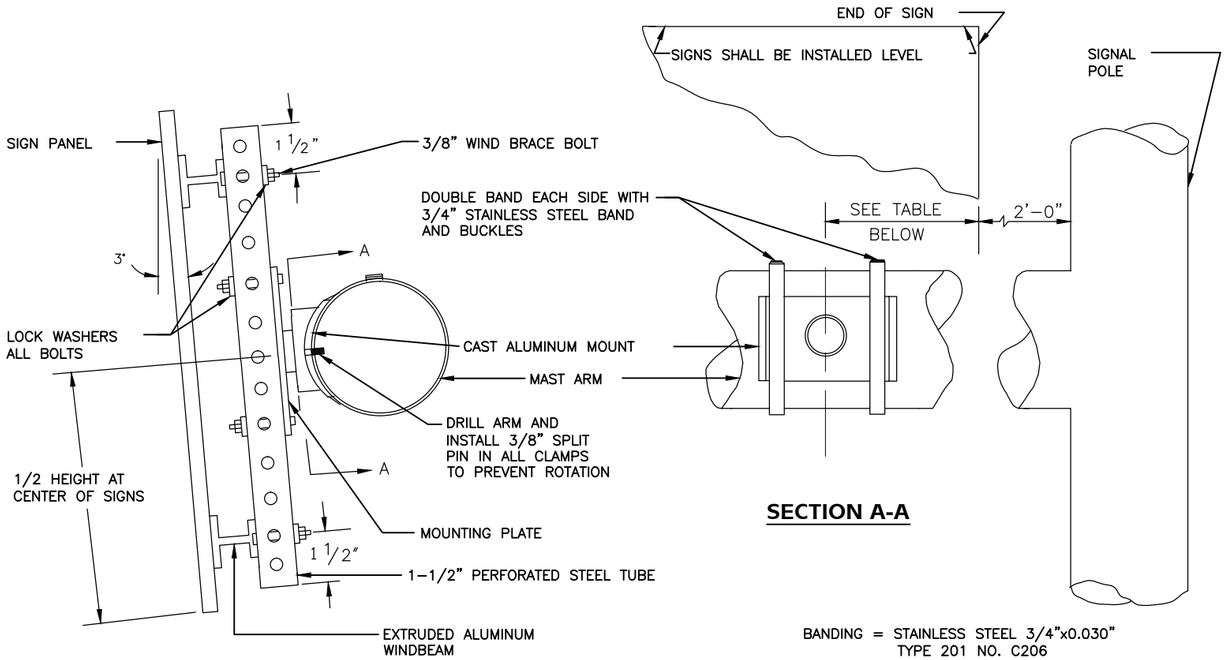
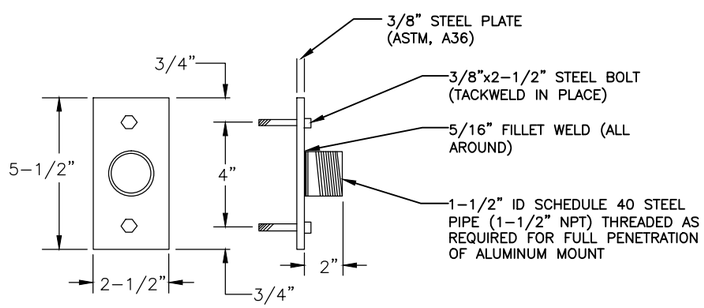
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-0005(413)/61725	2013	H52	H55

SIGNAL MAST ARM MOUNTED SIGNS (NOT FOR "R" SERIES SIGNS)



SECTION A-A



MOUNTING PLATE DETAIL

BANDING = STAINLESS STEEL 3/4"x0.030" TYPE 201 NO. C206

BUCKLES = STAINLESS STEEL 3/4" TYPE 201 NO. C256

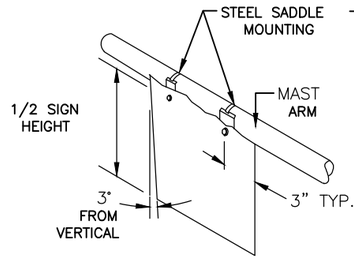
ALUMINUM MOUNT (SIGNAL) = 1-1/2"NPT NO. D040

PIN = NO. D042

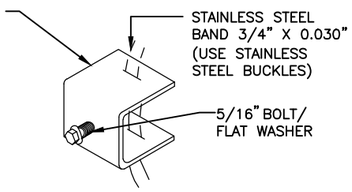
SIGN WIDTH(W)	NO. OF CLAMPS	CLAMP SPACING		
		OVERHANG	BETWEEN CLAMPS	OVERHANG
0-12 1/2'	2	0.2W	1 SPACE AT 0.6W	0.2W
13' TO 21'	3	0.15W	2 SPACES AT 0.35W	0.15W

1. CAST ALUMINUM MOUNTS AND BANDING MATERIALS SHALL BE "BAND-IT" OR APPROVED EQUAL.
2. MOUNTING PLATE SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
3. ALL WELDING SHALL MEET AMERICAN WELDING SOCIETY SPECS.
4. BOLTS, NUTS AND WASHERS SHALL MEET THE REQUIREMENTS OF STANDARD DRAWING S-20.10

MAST ARM MOUNTING FOR "R" SERIES SIGNS

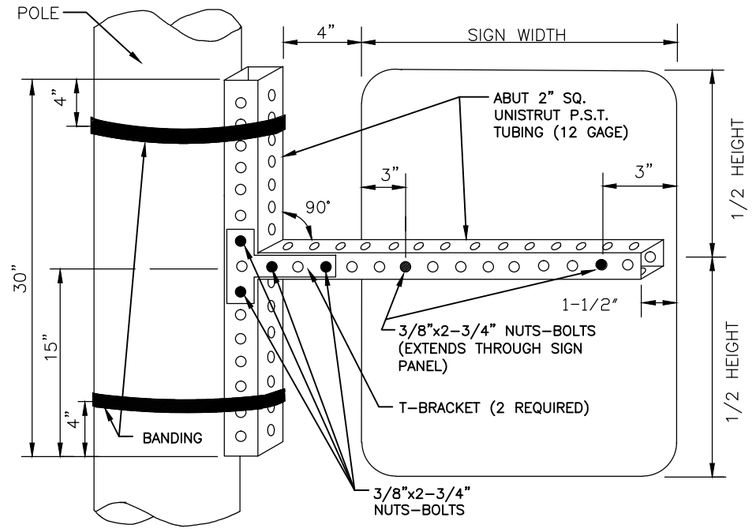


FIELD DRILL SIGNS FOR LEVEL INSTALLATION



ALL HARDWARE THAT IS NOT STAINLESS STEEL SHALL BE GALVANIZED STEEL.

POLE/POST SIDE MOUNTED SIGN BRACKET



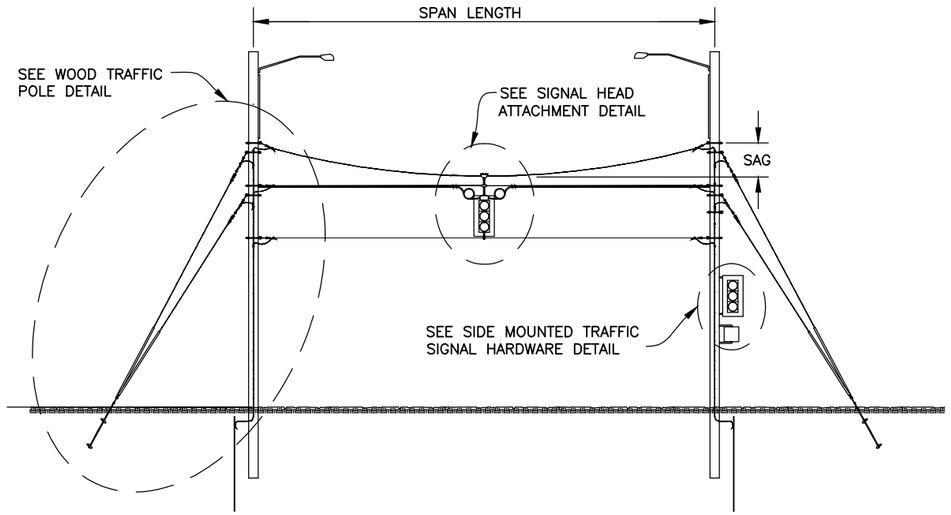
ALL NUTS SHALL BE INSTALLED WITH LOCK WASHERS
BANDING = STAINLESS STEEL 3/4"x0.030" (DOUBLE BANDING REQUIRED)
BUCKLES = STAINLESS STEEL 3/4"

STATE OF ALASKA 49TH SUBMITTAL 12/2014 JOHNSON ENGINEER 8706 PROFESSIONAL ENGINEER

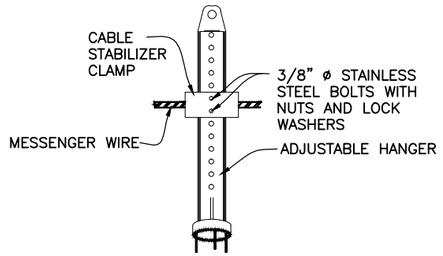
SIGNAL MOUNTED SIGN DETAILS

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\NOBLE SIGNAL MOUNTED SIGN DETAILS

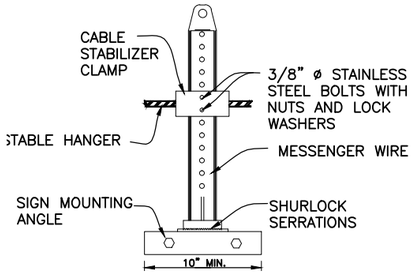
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H53	--



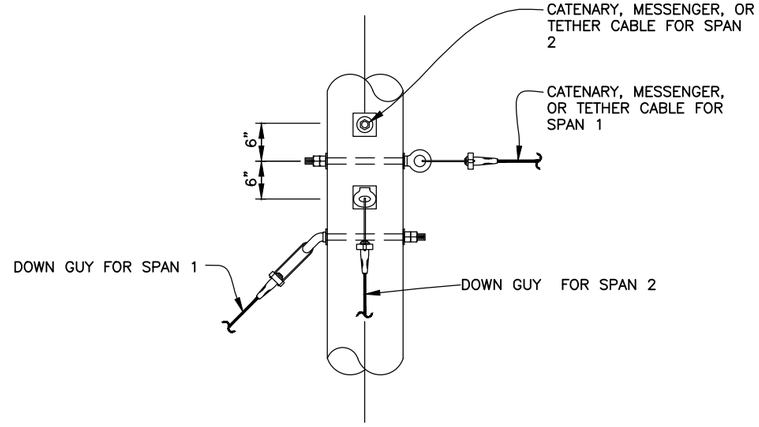
SPAN ELEVATION
NTS



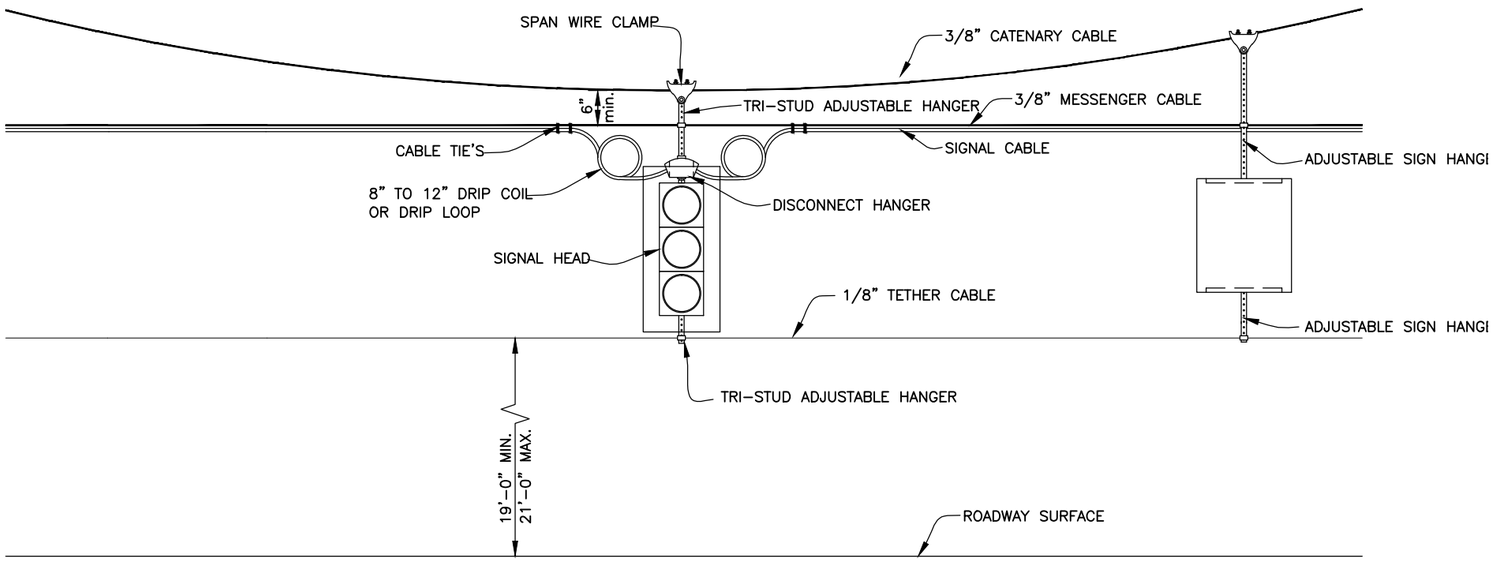
TRI-STUD ADJUSTABLE HANGER
NTS



ADJUSTABLE HANGER FOR SIGN MOUNTING
NTS



MULTIPLE SPAN ATTACHMENT DETAIL
NTC



SIGNAL HEAD AND SIGN ATTACHMENT DETAIL
NTS

GENERAL NOTES:

1. ATTACH ADJUSTABLE HANGERS TO THE MESSENGER AND TETHER CABLES WITH CABLE STABILIZER CLAMPS.
2. ATTACH SIGNAL CABLES TO MESSENGER CABLE EVERY 1' USING 3M HEAVY DUTY BLACK CABLE TIES. CABLE TIES SHALL BE WEATHER RESISTAND BLACK NYLON GREATER THAN 0.065" THICK, HAVE A TENSILE STRENGTH GREATER THAN 110LBS, AND HAVE A TEMPERATURE RANGE BETTER THAN -35°F TO 180°F. USE TWO TIES BEFORE/AFTER DRIP LOOPS. CABLE TIES SHALL BE ATTACHED "SNUG TIGHT", DO NOT OVER TIGHTEN.
3. INSTALL SIGNS SO THAT THE BOTTOM EDGES ARE AT APPROXIMATELY THE SAME ELEVATION.
4. SAG=4% TO 5% OF SPAN LENGTH.

STATE OF ALASKA 49TH
SUBMITTAL
12/12/2014
JOHNSON ENGINEER 8706
REGISTERED PROFESSIONAL ENGINEER

TEMPORARY TRAFFIC SIGNAL SPAN WIRE DETAILS

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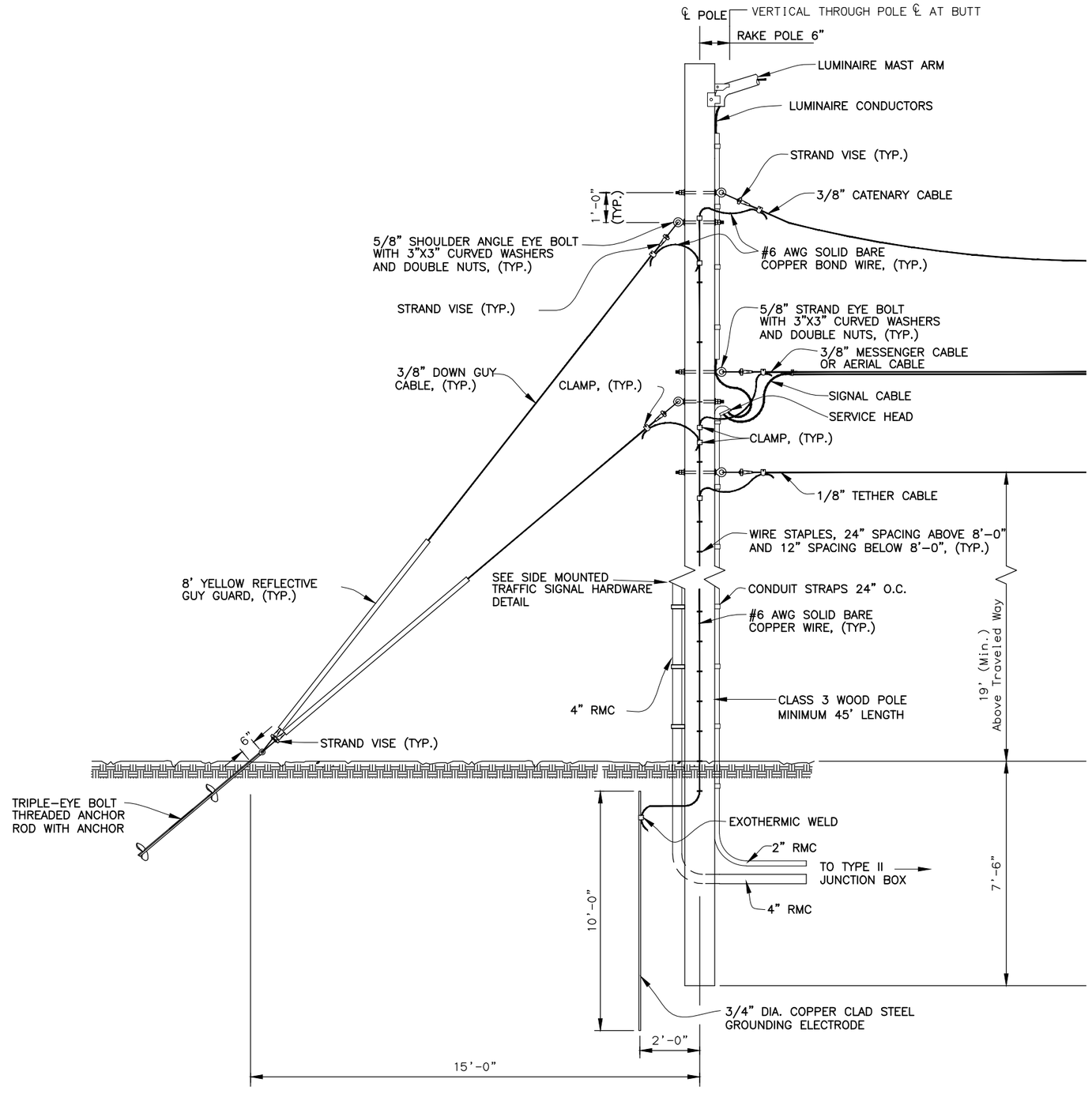
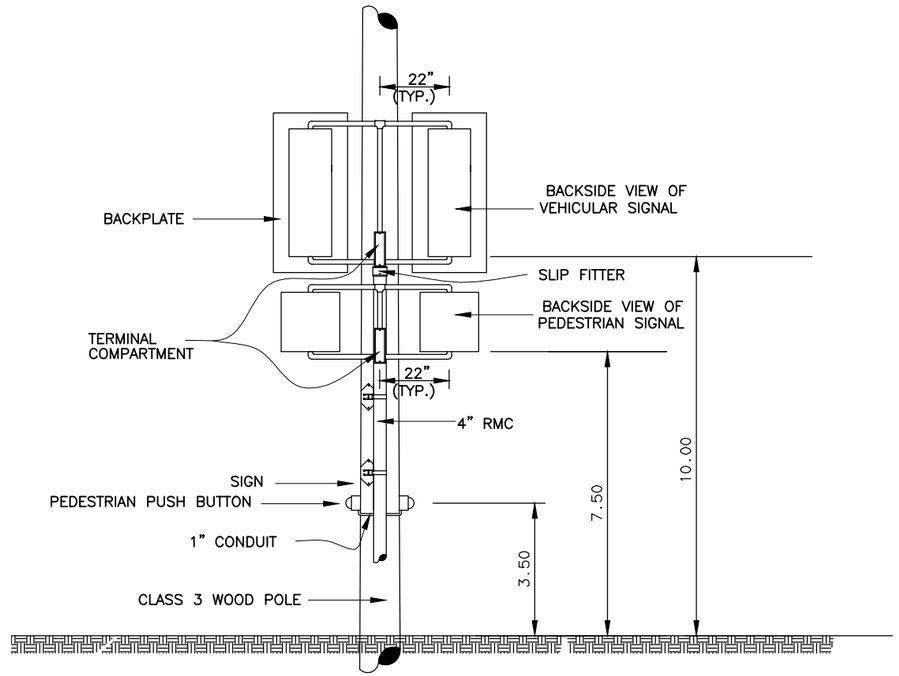
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H54	--



WOOD TRAFFIC POLE DETAIL

NTS
(SINGLE SPAN ATTACHMENT SHOWN)



SIDE MOUNTED TRAFFIC SIGNAL HARDWARE

NTS

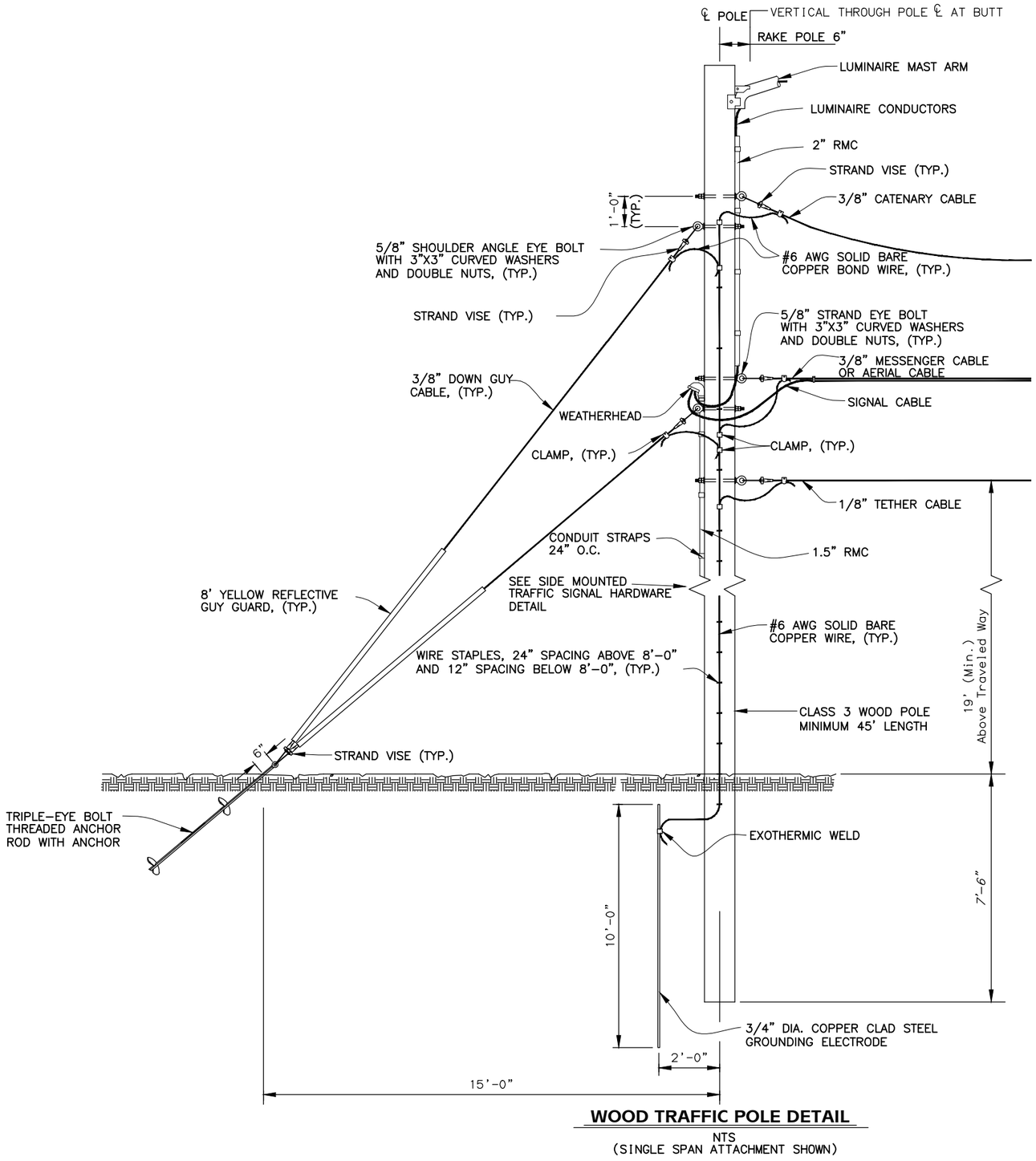
GENERAL NOTES:

1. ATTACH A 4 INCH RIGID METAL CONDUIT TO THE WOOD POLE, USING UNISTRUT P9014 WITH P4101 CHANNEL, AND P1121 PIPE CLAMPS, OR APPROVED EQUAL.
2. INSTALL THE 4" CONDUIT ON THE SIDE OF THE POLE AT A LOCATION WHERE A LINE PARALLEL TO THE LONG CORD (P.C. TO P.T.) OF THE RADIUS IS TANGENT TO THE POLE, AS SHOWN IN STANDARD DRAWING T-30.10 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR TERMINAL COMPARTMENT LOCATIONS.
3. USE POST TOP SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE VEHICULAR SIGNAL HEADS ON TOP OF THE 4 INCH CONDUIT.
4. USE SIDE MOUNTED SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE PEDESTRIAN SIGNAL HEADS ON THE 4 INCH CONDUIT.
5. THE VERTICAL CLEARANCES SHOWN ARE FROM THE WALKING SURFACE FOR THE PEDESTRIAN GEAR AND THE TRAVELED WAY FOR THE VEHICULAR SIGNALS.
6. TERMINATE POLES WITH NO LUMINAIRE A MINIMUM OF 2 FEET ABOVE THE CATENARY CABLE CONNECTION.
7. SEE STANDARD DRAWING T-30.10 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR ADDITIONAL TRAFFIC SIGNAL HARDWARE DETAILS.

TEMPORARY WOOD TRAFFIC SIGNAL DETAILS UNDERGROUND SERVICE

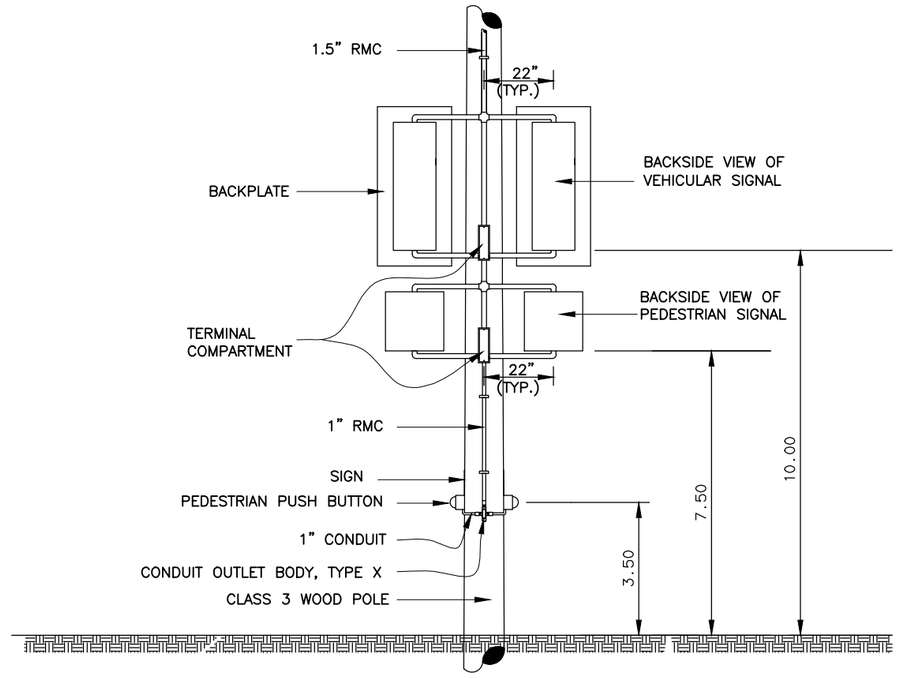
Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\NOBLE SIGNAL Wood Pole Signal

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	H55	--



WOOD TRAFFIC POLE DETAIL

NTS
(SINGLE SPAN ATTACHMENT SHOWN)



SIDE MOUNTED TRAFFIC SIGNAL HARDWARE

NTS

GENERAL NOTES:

1. USE SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE VEHICULAR AND PEDESTRIAN SIGNAL HEADS ON THE SIDES OF THE WOOD POLES.
2. SECURELY ATTACH THE TERMINAL COMPARTMENTS TO THE WOOD POLES AT THE LOCATIONS SHOWN ON STANDARD DRAWING T-30.10 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS.
3. THE VERTICAL CLEARANCES SHOWN ARE FROM THE WALKING SURFACE FOR THE PEDESTRIAN GEAR AND THE TRAVELED WAY FOR THE VEHICULAR SIGNALS.
4. TERMINATE POLES WITH NO LUMINAIRE A MINIMUM OF 2 FEET ABOVE THE CATENARY CABLE CONNECTION.
5. SEE STANDARD DRAWING T-30.10 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR ADDITIONAL TRAFFIC SIGNAL HARDWARE DETAILS.

TEMPORARY WOOD TRAFFIC SIGNAL POLE DETAIL OVERHEAD SERVICE

Z:\PROJECTS\PDC\Noble St Signals and ST Illumination\Dwg\Plan Sheets\NOBLE SIGNAL Wood Pole Signal

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J1	– –

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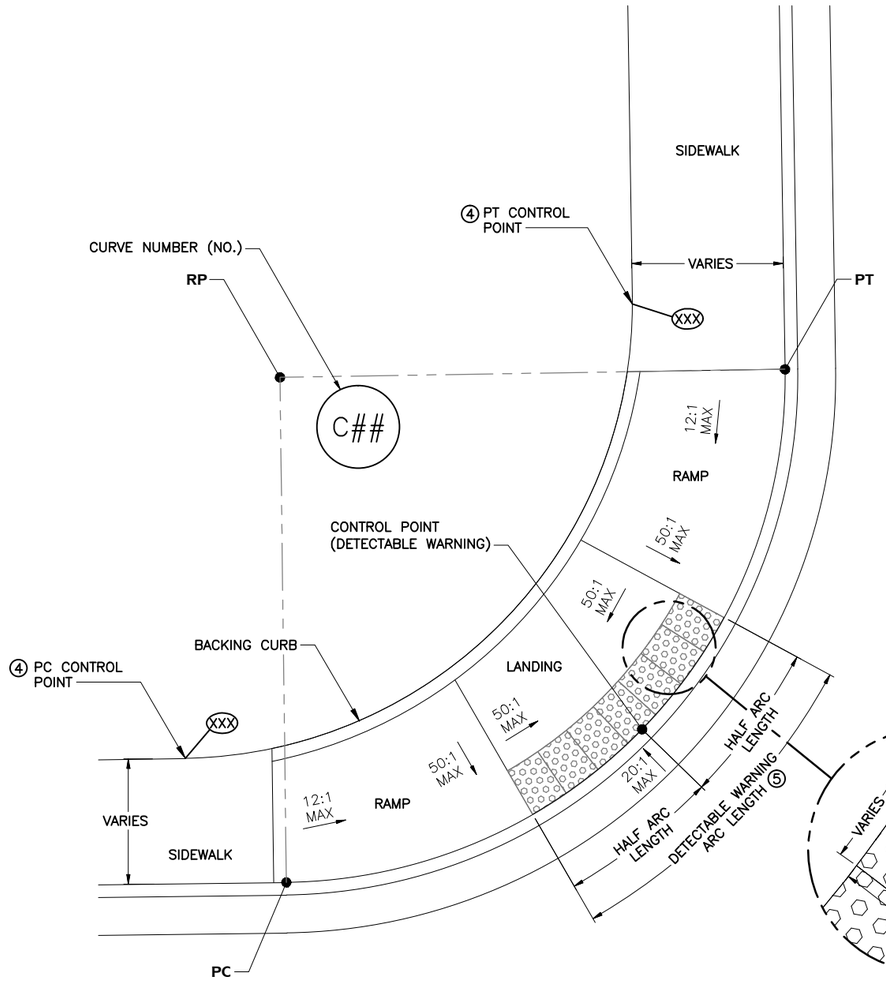
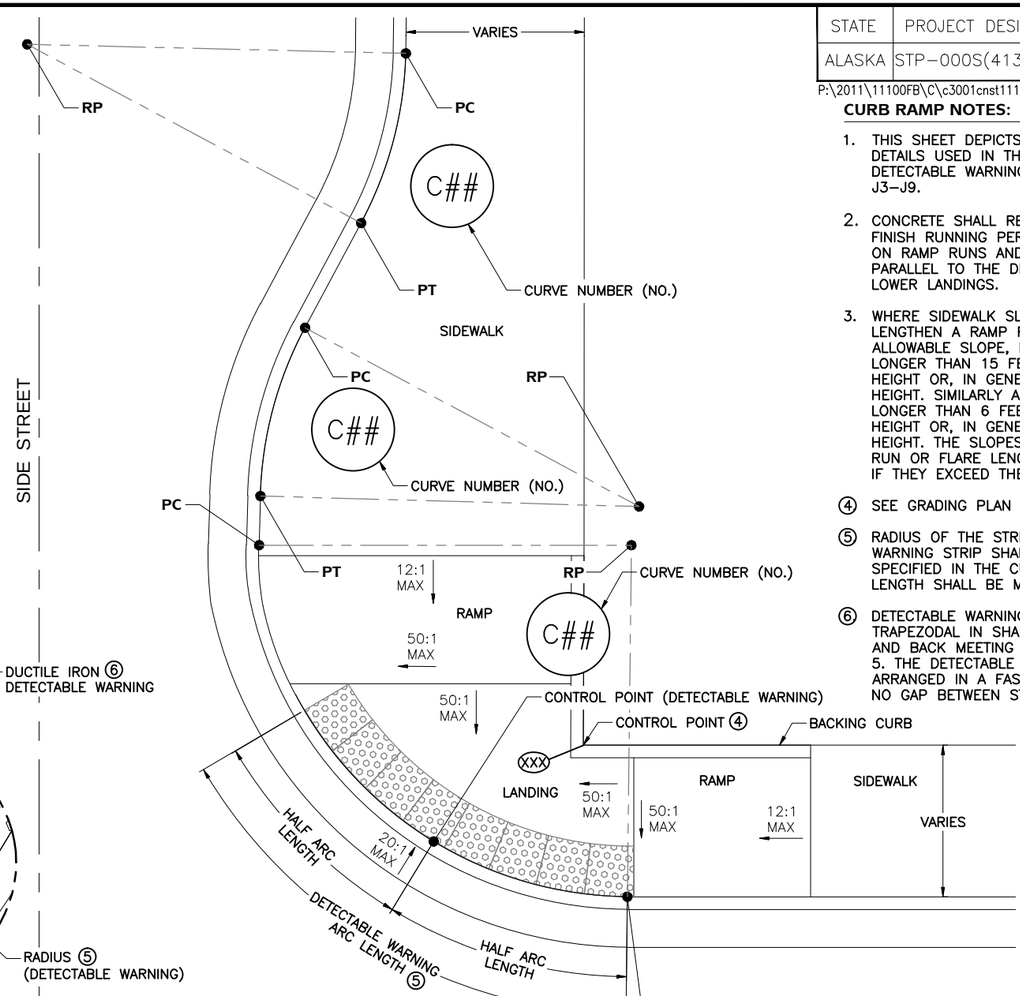
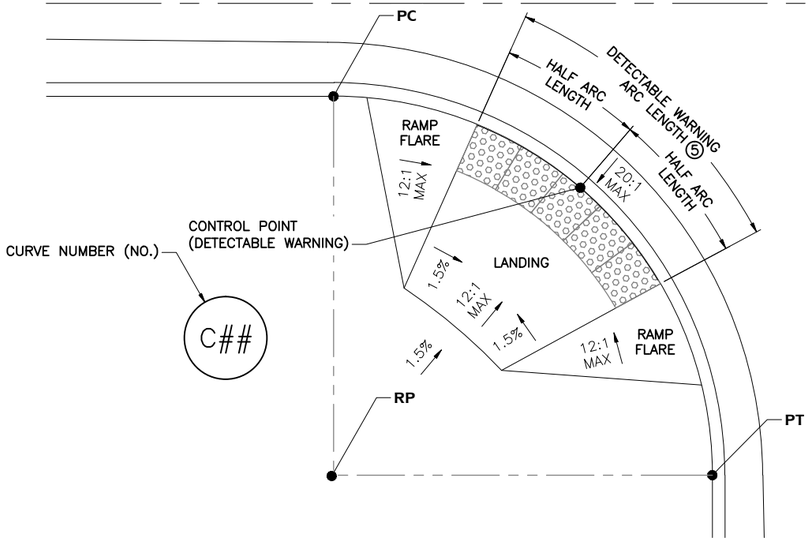
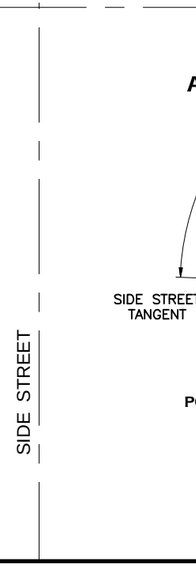
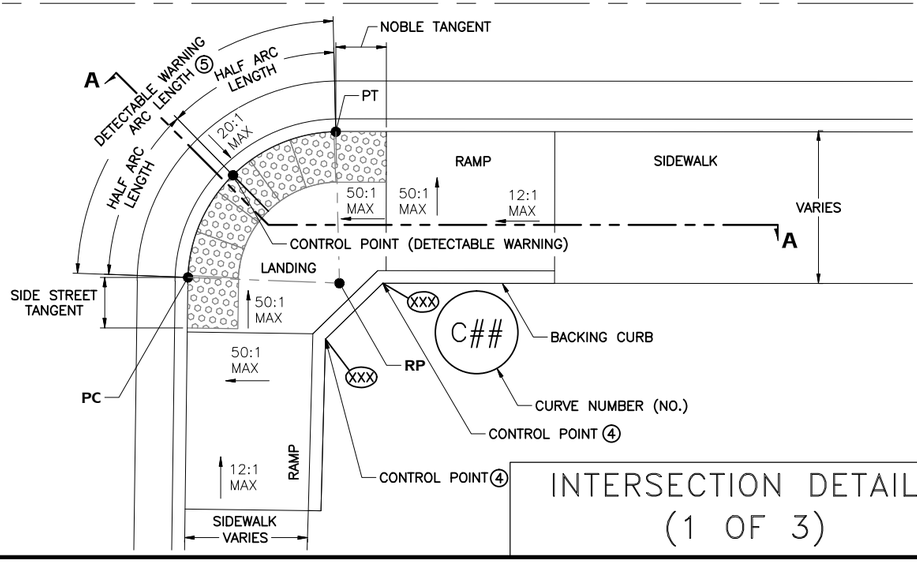




NOBLE STREET







CURB RAMP NOTES:

1. THIS SHEET DEPICTS THE GENERAL CURB RAMP DETAILS USED IN THE CURVE LAYOUT AND DETECTABLE WARNING TABLES FOUND ON SHEETS J3–J9.
2. CONCRETE SHALL RECEIVE A MEDUIM BROOMED FINISH RUNNING PERPENDUCULAR TO THE CURB ON RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO THE DIRECTION OF TRAVEL ON LOWER LANDINGS.
3. WHERE SIDEWALK SLOPE MAKES IT NECESSARY TO LENGTHEN A RAMP RUN TO AVOID EXCEEDING THE ALLOWABLE SLOPE, IT SHOULD NOT BE MADE LONGER THAN 15 FEET FOR A 6 INCH CURB HEIGHT OR, IN GENERAL, 30 TIMES THE CURB HEIGHT. SIMILARLY A FLARE SHULD NOT BE MADE LONGER THAN 6 FEET FOR A 6 INCH CURB HEIGHT OR, IN GENERAL, 12 TIMES THE CURB HEIGHT. THE SLOPES RESULTING FROM THOSE RUN OR FLARE LENGTHS ARE ACCEPTABLE, EVEN IF THEY EXCEED THE MAXIMUM SLOPES SHOWN.

④ SEE GRADING PLAN FOR CONTROL POINTS.

⑤ RADIUS OF THE STREET SIDE OF THE DETECTABLE WARNING STRIP SHALL MATCH THE RADIUS SPECIFIED IN THE CURVE LAYOUT TABLES. ARC LENGTH SHALL BE MEASURED ALONG THIS RADIUS.

⑥ DETECTABLE WARNING STRIPS SHALL BE TRAPEZODAL IN SHAPE WITH A CURVED FRONT AND BACK MEETING THE REQUIREMENTS OF NOTE 5. THE DETECTABLE WARNING STRIPS WILL BE ARRANGED IN A FASHION SUCH THAT THERE IS NO GAP BETWEEN STRIPS.

INTERSECTION DETAILS (1 OF 3)

STATE OF ALASKA 49TH ANNE MARIE ERVICE REGISTERED PROFESSIONAL ENGINEER CE12840

Friday, December 12, 2014, 12:22 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J2	– –

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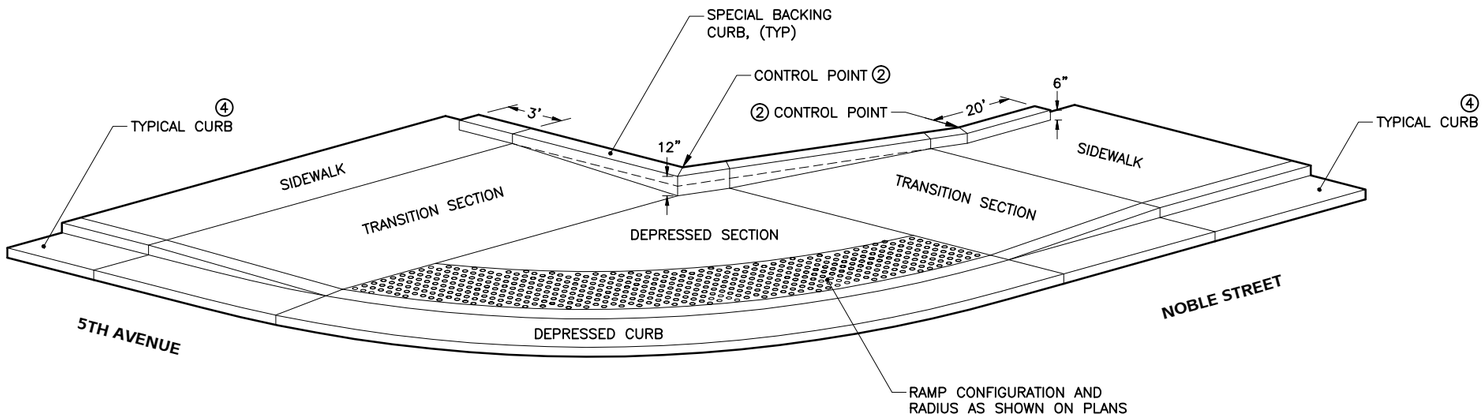
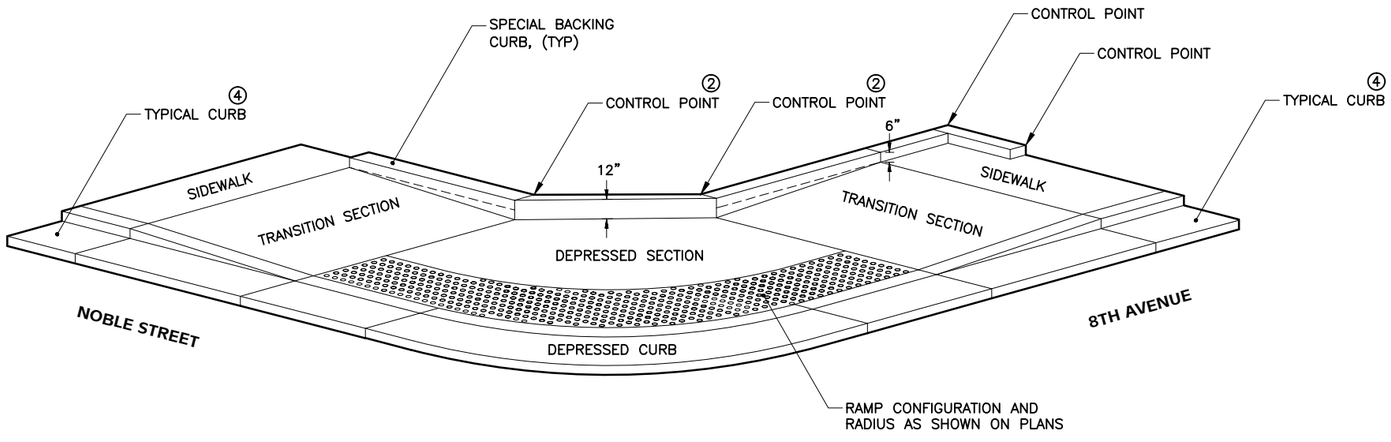


SPECIAL CURB RAMP DETAIL

5TH AVENUE & NOBLE STREET SOUTHEAST CORNER
NTS

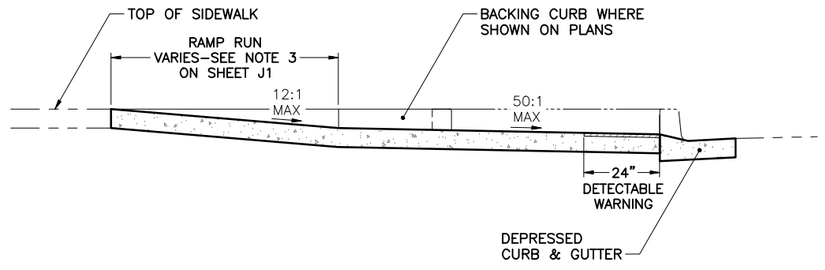
SHEET NOTES:

1. USE STANDARD SLOPES FOR SIDEWALK AND CURB TRANSITION AND DEPRESSED SECTIONS AS SHOWN ON J1.
2. ② SEE GRADING PLAN FOR CONTROL POINTS.
3. SEE PLAN FOR SIDEWALK WIDTHS.
4. ④ SEE ROADWAY TYPICAL SECTION FOR CURB TYPE.
5. SPECIAL BACKING CURB SUBSIDIARY TO 608(6).



SPECIAL CURB RAMP DETAIL

8TH AVENUE & NOBLE STREET SOUTHWEST CORNER
NTS



SECTION A-A

NTS

Friday, December 12, 2014, 12:22 PM

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

INTERSECTION DETAILS (2 OF 3)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J3	– –

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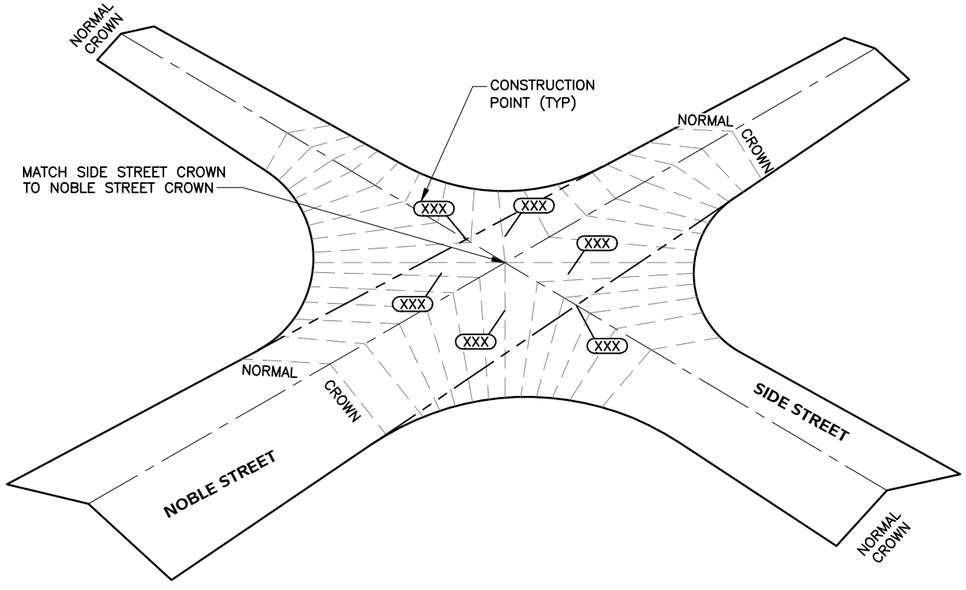
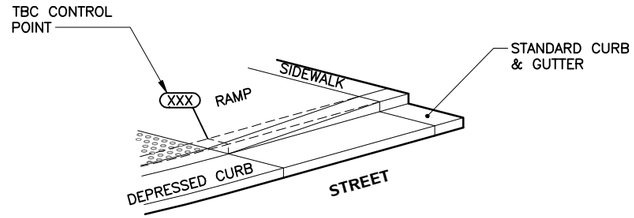
DETAIL NOTES:

1. CROWN SHALL BE MAINTAINED ON ALL APPROACHES TO INTERSECTION. THIS DETAIL IS INTENDED TO REPRESENT THE TYPICAL GRADING PLAN AT INTERSECTIONS.
2. CURB & GUTTER AND SIDEWALK NOT SHOWN FOR CLARITY.



INTERSECTION GRADING DETAIL
NTS



DETAIL NOTES:

1. TBC CONTROL POINTS AT CURB RAMPS REPRESENT A PHANTOM BACK OF CURB ELEVATION AS IF THE STANDARD CURB AND GUTTER WERE CONTINUED. ELEVATIONS PROVIDED AT THESE LOCATIONS DO NOT REPRESENT FINISH GRADE ELEVATIONS.

PHANTOM TBC CONTROL POINT DETAIL
NTS

Friday, December 12, 2014, 12:22 PM

INTERSECTION DETAILS
(1 OF 3)

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
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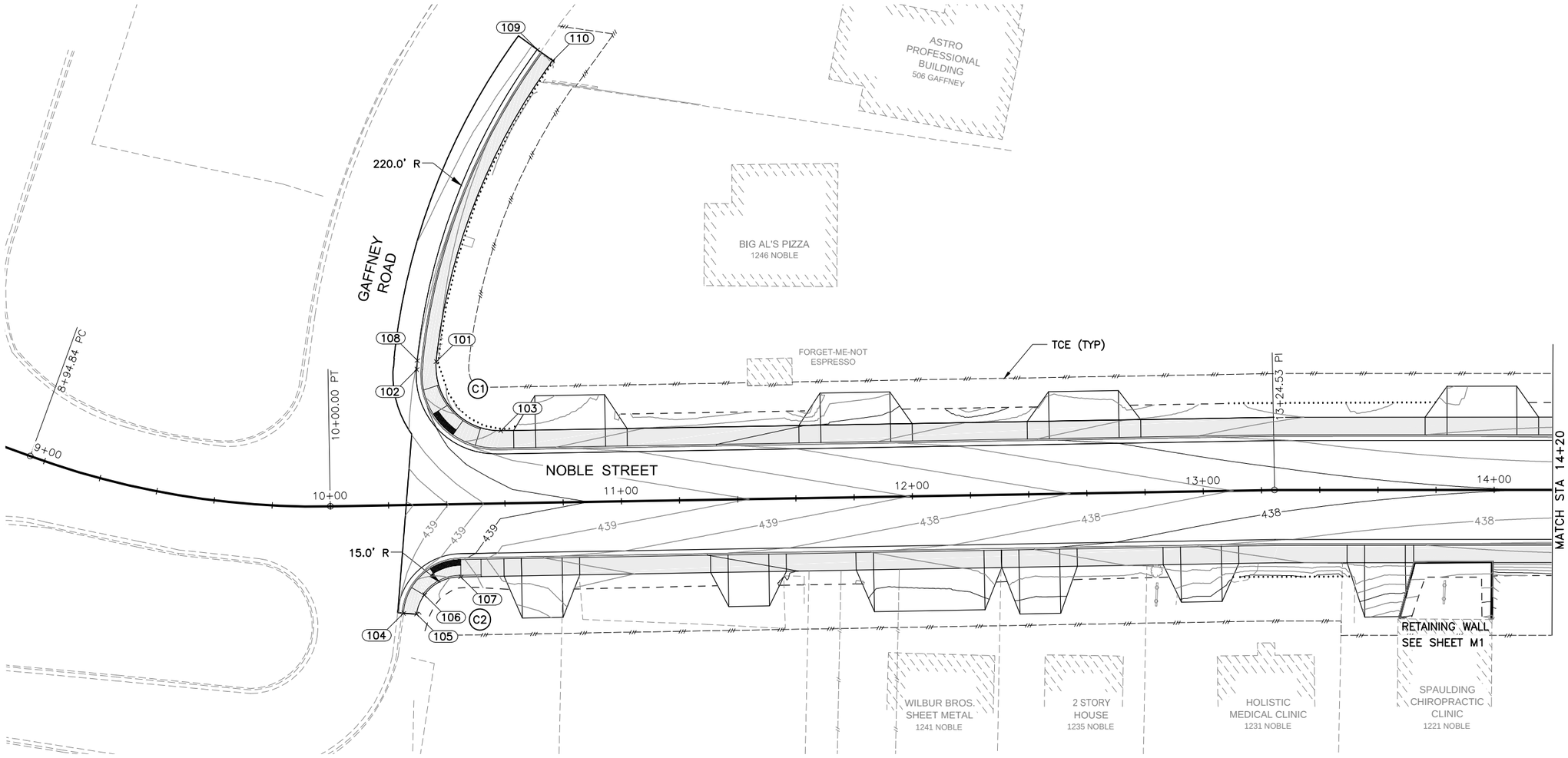
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J4	--



FEET
20 10 0 20 40

GRADING NOTES:

1. TYPICAL SECTIONS AND PROFILES CONTROL GRADES UNLESS NOTED ON THESE GRADING PLANS.
2. CONTOURS ARE APPROXIMATE AND FOR REFERENCE ONLY.
3. FOR CLARITY, EXISTING UTILITIES, WATER CONFLICTS AND NEW DUCT BANK NOT SHOWN.
4. CONTROL POINTS INDICATED BY A FLAG ARE SHOWN ON SHEETS J10–J11.
5. SEE SHEETS G2–G7 FOR DRIVEWAY GRADING.

CURVE LAYOUT TABLE								DETECTABLE WARNING			
NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.	CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
C1	25	PC	10+32.48	46.373 LT	18114.58	7426.50	439.70	N:18123.97 E:7444.41	9.8		
		RP	10+57.36	44.000 LT	18139.52	7424.84	--				
		PT	10+57.36	19.000 LT	18143.55	7449.51	439.29				
C2	20	PC	10+24.52	37.102 RT	18120.16	7510.17	439.92	N:18131.65 E:7490.72	11		
		RP	10+45.06	41.754 RT	18141.19	7511.45	--				
		PT	10+44.43	19.000 RT	18136.90	7489.10	439.64				

STATE OF ALASKA
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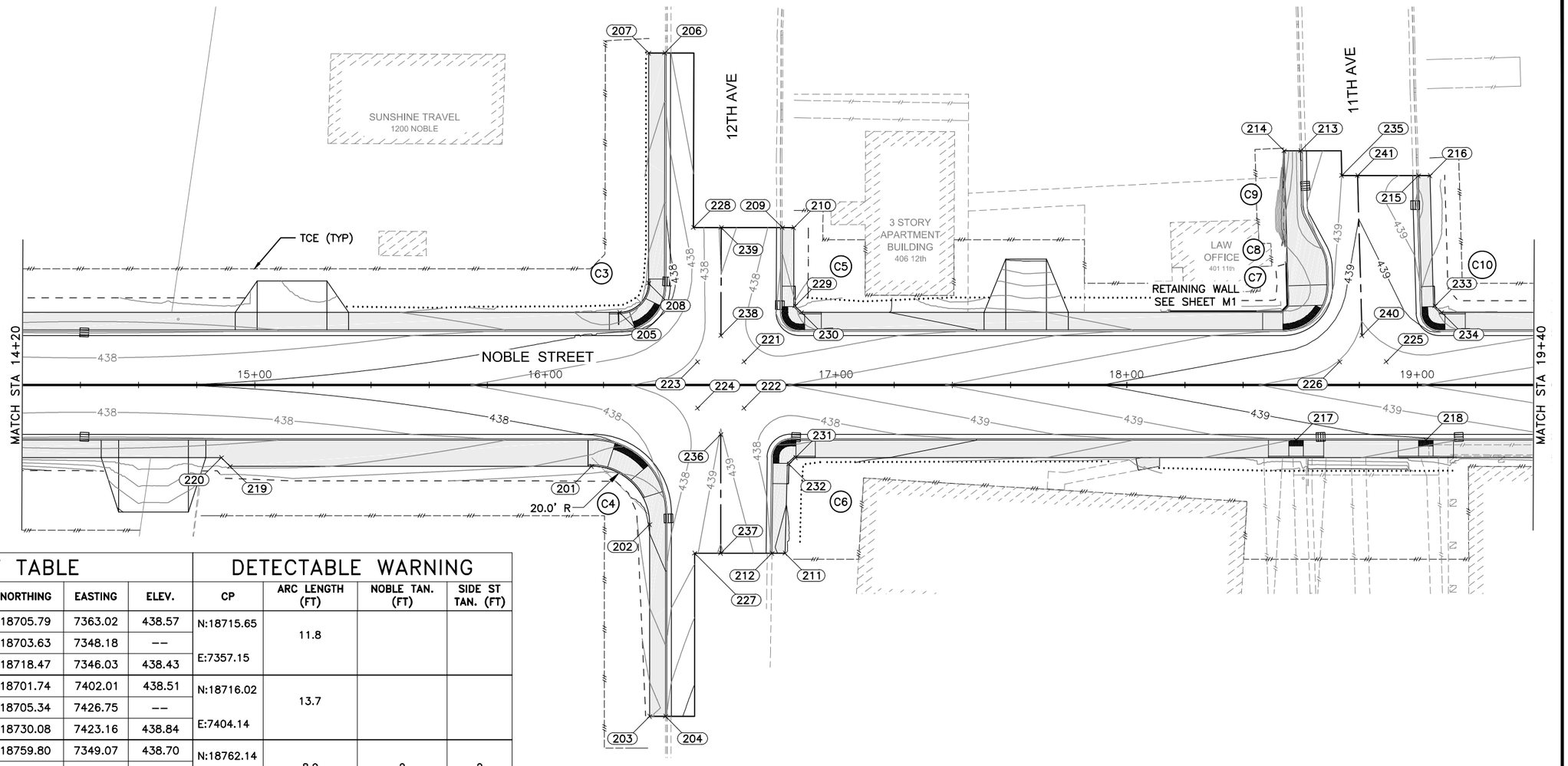
GRADING PLAN
10+58 – 14+20

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J5	--

FEET
20 10 0 20 40



CURVE LAYOUT TABLE

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.
C3	15	PC	16+25.91	19.000 LT	18705.79	7363.02	438.57
		RP	16+25.91	34.000 LT	18703.63	7348.18	--
		PT	16+40.91	33.981 LT	18718.47	7346.03	438.43
C4	25	PC	16+16.29	19.000 RT	18701.74	7402.01	438.51
		RP	16+16.29	44.000 RT	18705.34	7426.75	--
		PT	16+41.29	44.012 RT	18730.08	7423.16	438.84
C5	6	PC	16+81.37	25.026 LT	18759.80	7349.07	438.70
		RP	16+87.37	25.000 LT	18765.74	7348.23	--
		PT	16+87.37	19.000 LT	18766.60	7354.17	438.77
C6	6	PC	16+78.31	24.703 RT	18763.96	7398.94	438.84
		RP	16+84.30	25.000 RT	18769.91	7398.15	--
		PT	16+84.30	19.000 RT	18769.04	7392.21	438.77
C7	15	PC	18+53.82	19.000 LT	18931.32	7330.19	439.39
		RP	18+53.82	34.000 LT	18929.16	7315.34	--
		PT	18+68.81	34.386 LT	18943.94	7312.80	439.28
C8	15	PC	18+68.66	40.384 LT	18942.92	7306.89	439.25
		RP	18+53.66	39.998 LT	18928.14	7309.43	--
		PT	18+66.90	47.049 LT	18940.22	7300.54	439.20
C9	10	PC	18+61.27	57.622 LT	18933.13	7290.89	439.13
		RP	18+70.10	62.323 LT	18941.19	7284.97	--
		PT	18+60.10	62.050 LT	18931.33	7286.68	439.11
C10	6	PC	19+01.59	24.830 LT	18977.75	7317.54	439.47
		RP	19+07.59	25.000 LT	18983.66	7316.50	--
		PT	19+07.59	19.000 LT	18984.52	7322.44	439.57

DETECTABLE WARNING

CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
N:18715.65 E:7357.15	11.8		
N:18716.02 E:7404.14	13.7		
N:18762.14 E:7353.03	8.9	2	2
N:18765.12 E:7394.53	8.9	2	2
N:18937.58 E:7327.75	15.7		
N:18980.14 E:7321.36	8.9	2	2

GRADING PLAN
14+20 - 19+40

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
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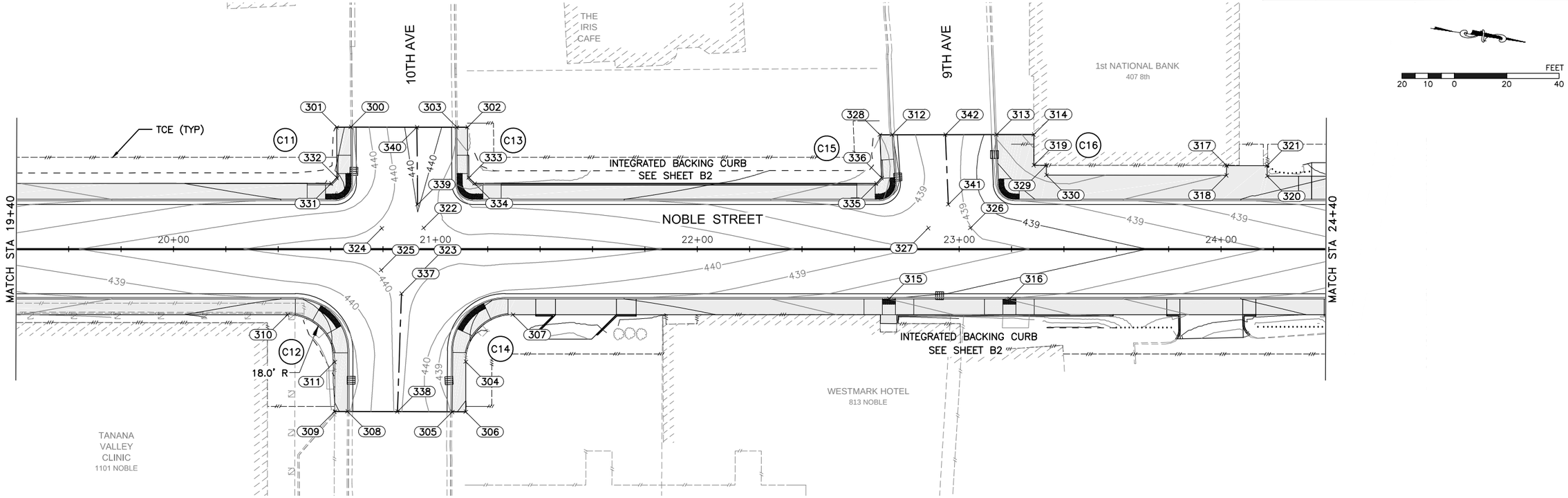
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J6	-- --



CURVE LAYOUT TABLE

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.
C11	6	PC	20+61.83	19.000 LT	19137.16	7300.22	440.04
		RP	20+61.83	25.000 LT	19136.29	7294.28	--
		PT	20+67.83	25.043 LT	19142.22	7293.37	439.93
C12	20	PC	20+46.51	19.000 RT	19127.48	7340.03	440.01
		RP	20+42.12	44.331 RT	19126.78	7365.73	--
		PT	20+66.51	39.062 RT	19150.16	7357.00	439.87
C13	6	PC	21+08.28	24.799 LT	19182.26	7287.63	440.21
		RP	21+14.28	25.000 LT	19188.19	7286.72	--
		PT	21+14.28	19.000 LT	19189.06	7292.66	440.08
C14	20	PC	21+06.66	38.720 RT	19189.84	7350.88	439.86
		RP	21+30.11	43.640 RT	19213.75	7352.37	--
		PT	21+26.66	19.000 RT	19206.79	7328.48	440.03
C15	6	PC	22+69.59	19.000 LT	19342.75	7270.29	439.61
		RP	22+69.59	25.000 LT	19341.88	7264.35	--
		PT	22+75.57	25.388 LT	19347.75	7263.10	439.53
C16	6	PC	23+15.03	24.757 LT	19386.88	7258.04	439.35
		RP	23+21.02	25.000 LT	19392.78	7256.94	--
		PT	23+21.02	19.000 LT	19393.64	7262.88	439.38

DETECTABLE WARNING

CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
N:19141.12 E:7297.85	8.9	4	4
N:19142.34 E:7343.81	11		
N:19184.62 E:7291.55	8.9	4	4
N:19193.72 E:7336.20	14.2		
N:19346.81 E:7267.78	8.9	2	2
N:19389.29 E:7261.82	8.9	2	2

GRADING PLAN
19+40 - 24+40

STATE OF ALASKA
49 TH
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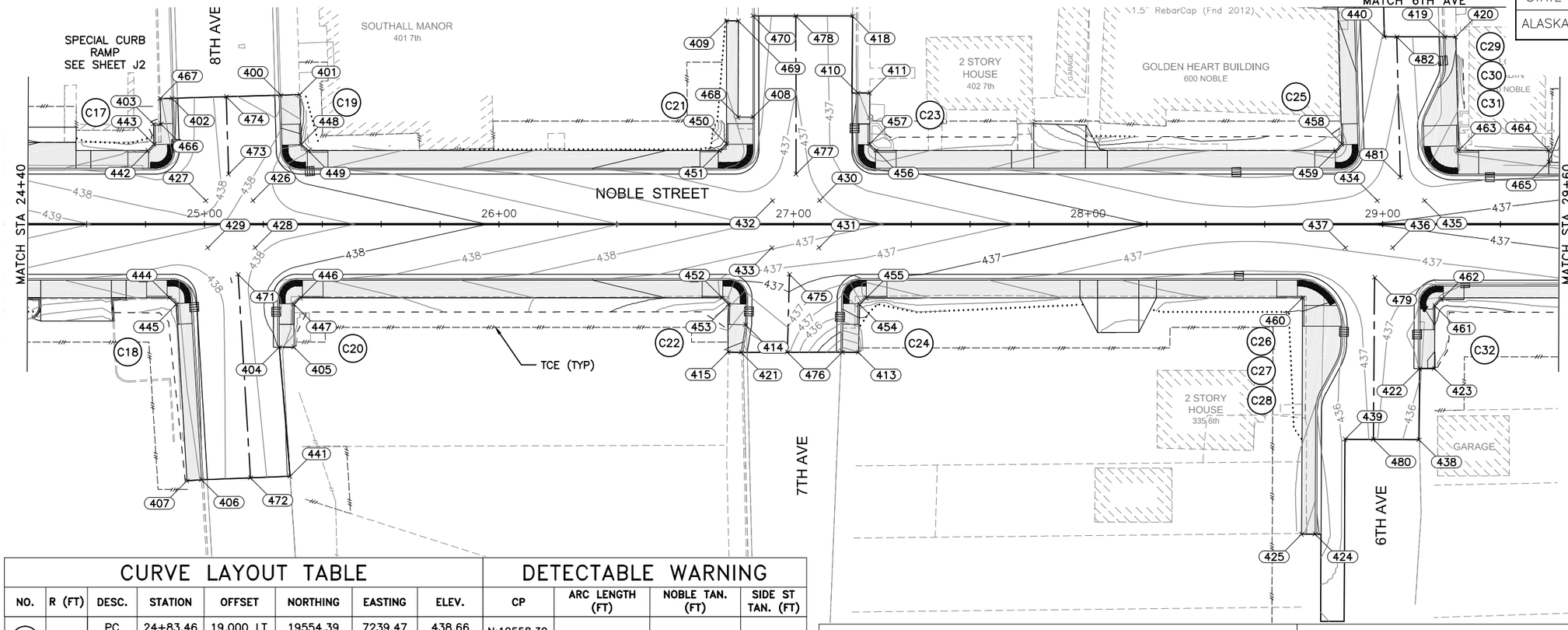
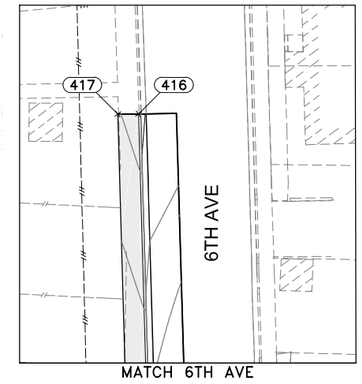
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J7	– –





CURVE LAYOUT TABLE

DETECTABLE WARNING

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.	CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
C17	6	PC	24+83.46	19.000 LT	19554.39	7239.47	438.66	N:19558.39 E:7237.05	8.9	2	2
		RP	24+83.46	25.000 LT	19553.53	7233.54	––				
		PT	24+89.46	25.183 LT	19559.44	7232.49	438.58				
C18	6	PC	24+89.30	19.000 RT	19565.64	7276.24	438.62	N:19569.95 E:7277.26	8.9	2	2
		RP	24+89.30	25.000 RT	19566.51	7282.17	––				
		PT	24+95.29	24.638 RT	19572.38	7280.95	438.53				
C19	6	PC	25+26.43	24.826 LT	19596.07	7227.52	438.78	N:19598.46 E:7231.34	8.9	2	2
		RP	25+32.43	25.000 LT	19601.98	7226.48	––				
		PT	25+32.43	19.000 LT	19602.84	7232.42	438.43				
C20	6	PC	25+25.40	24.984 RT	19602.23	7276.96	438.40	N:19603.37 E:7272.52	8.9	2	2
		RP	25+31.40	25.000 RT	19608.17	7276.11	––				
		PT	25+31.40	19.000 RT	19607.31	7270.17	438.45				
C21	6	PC	26+80.25	19.000 LT	19749.12	7211.12	437.78	N:19751.73 E:7210.08	8.9	6	2
		RP	26+80.25	25.000 LT	19748.26	7205.19	––				
		PT	26+86.25	25.004 LT	19754.20	7204.32	437.72				
C22	6	PC	26+77.95	19.000 RT	19752.33	7249.06	437.68	N:19756.84 E:7250.23	8.9	2	2
		RP	26+77.95	25.000 RT	19753.19	7255.00	––				
		PT	26+83.95	25.143 RT	19759.15	7254.27	437.30				
C23	6	PC	27+21.84	24.995 LT	19789.42	7199.20	437.53	N:19791.18 E:7202.64	8.9		2
		RP	27+27.84	25.000 LT	19795.36	7198.33	––				
		PT	27+27.84	19.000 LT	19796.22	7204.27	437.56				
C24	6	PC	27+16.87	24.905 RT	19791.69	7249.29	437.14	N:19792.86 E:7244.90	8.9	2	2
		RP	27+22.87	25.000 RT	19797.64	7248.52	––				
		PT	27+22.87	19.000 RT	19796.78	7242.59	437.58				
C25	6	PC	28+85.72	19.000 LT	19952.45	7181.52	437.13	N:19956.44 E:7179.10	8.9	2	2
		RP	28+85.72	25.000 LT	19951.58	7175.59	––				
		PT	28+91.71	25.170 LT	19957.50	7174.55	437.15				

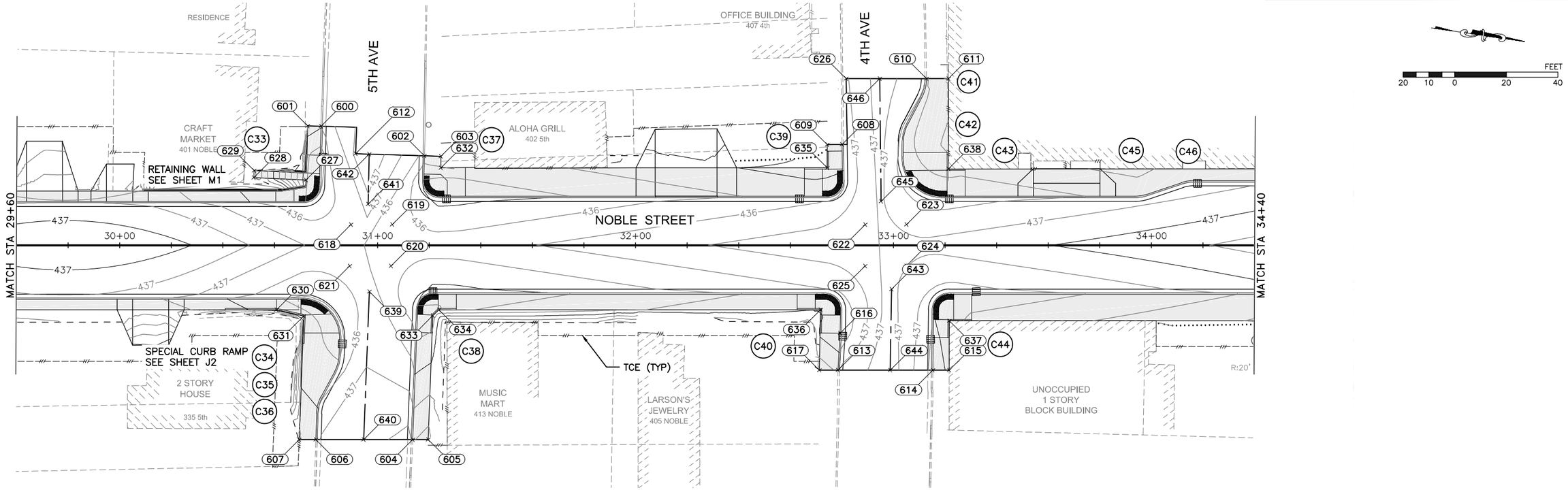
CURVE LAYOUT TABLE

DETECTABLE WARNING

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.	CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
C26	15	PC	28+71.10	19.000 RT	19943.46	7221.23	437.10		15.7		
		RP	28+70.97	33.999 RT	19945.49	7236.09	––				
		PT	28+85.97	34.417 RT	19960.39	7234.35	436.94				
C27	15	PC	28+85.80	40.415 RT	19961.09	7240.31	436.94				
		RP	28+70.81	39.997 RT	19946.19	7242.05	––				
		PT	28+84.03	47.076 RT	19960.30	7247.15	436.91				
C28	15	PC	28+79.09	56.309 RT	19956.74	7257.00	436.81				
		RP	28+92.31	63.388 RT	19970.84	7262.10	––				
		PT	28+77.32	63.027 RT	19955.95	7263.90	436.79				
C29	10	PC	29+21.43	53.670 LT	19982.79	7142.07	436.95				
		RP	29+11.43	53.444 LT	19972.93	7143.73	––				
		PT	29+20.47	49.175 LT	19982.49	7146.66	436.98				
C30	10	PC	29+14.85	37.268 LT	19978.65	7159.25	437.07	N:19978.23 E:7161.52			
		RP	29+23.89	32.998 LT	19988.21	7162.17	––				
		PT	29+13.89	32.773 LT	19978.35	7163.83	437.11				
C31	10	PC	29+14.03	26.775 LT	19979.35	7169.75	437.15	N:19983.50 E:7176.30	14.5	2	
		RP	29+24.03	27.000 LT	19989.21	7168.09	––				
		PT	29+24.03	17.000 LT	19990.65	7177.98	437.27				
C32	6	PC	29+12.78	26.910 RT	19985.84	7223.06	436.99	N:19986.99 E:7218.63	8.9	2	2
		RP	29+18.78	26.950 RT	19991.78	7222.23	––				
		PT	29+18.78	20.950 RT	19990.92	7216.29	437.18				

GRADING PLAN
24+40 – 29+60

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J8	-- --



CURVE LAYOUT TABLE

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.
C33	6	PC	30+71.43	17.050 LT	20136.50	7156.70	436.80
		RP	30+71.42	23.050 LT	20135.64	7150.76	--
		PT	30+77.42	22.869 LT	20141.60	7150.08	436.75
C34	15	PC	30+70.30	20.950 RT	20140.86	7194.46	436.74
		RP	30+70.30	35.950 RT	20143.02	7209.31	--
		PT	30+85.29	36.400 RT	20157.92	7207.59	436.72
C35	15	PC	30+85.11	42.397 RT	20158.61	7213.55	436.78
		RP	30+70.12	41.947 RT	20143.71	7215.27	--
		PT	30+83.33	49.055 RT	20157.80	7220.40	436.85
C36	15	PC	30+78.17	58.637 RT	20154.08	7230.62	436.96
		RP	30+91.38	65.745 RT	20168.18	7235.75	--
		PT	30+76.39	65.255 RT	20153.27	7237.43	437.02
C37	6	PC	31+17.98	25.115 LT	20181.41	7142.01	436.59
		RP	31+23.98	25.000 LT	20187.36	7141.26	--
		PT	31+23.98	19.000 LT	20188.23	7147.20	436.46
C38	6	PC	31+15.53	24.771 RT	20186.17	7191.73	436.62
		RP	31+21.60	25.000 RT	20192.21	7191.08	--
		PT	31+21.53	19.000 RT	20191.27	7185.15	436.47
C39	6	PC	32+74.27	19.000 LT	20336.95	7125.54	436.90
		RP	32+74.27	25.000 LT	20336.09	7119.61	--
		PT	32+80.27	25.094 LT	20342.01	7118.65	436.97
C40	6	PC	32+73.46	19.000 RT	20341.62	7163.27	436.90
		RP	32+73.46	25.000 RT	20342.48	7169.20	--
		PT	32+79.46	25.087 RT	20348.43	7168.42	436.85

DETECTABLE WARNING

CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
N:20140.39 E:7154.42	8.9	2	4
N:20146.69 E:7194.76	11.8		
N:20183.73 E:7146.03	8.9	2	2
N:20187.40 E:7187.41	8.9	2	2
N:20340.92 E:7123.16	8.9	2	4
N:20346.10 E:7164.42	8.9	4	2

CURVE LAYOUT TABLE

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.
C41	15	PC	33+12.80	64.590 LT	20368.51	7074.88	437.18
		RP	32+97.80	64.382 LT	20353.70	7077.25	--
		PT	33+11.09	57.418 LT	20367.85	7082.22	437.16
C42	15	PC	33+05.61	46.961 LT	20363.93	7093.36	437.13
		RP	33+18.89	39.998 LT	20378.08	7098.34	--
		PT	33+03.89	40.285 LT	20363.20	7100.21	437.11
C43	15	PC	33+03.78	34.287 LT	20363.95	7106.17	437.10
		RP	33+18.78	33.999 LT	20378.83	7104.29	--
		PT	33+18.98	19.000 LT	20381.19	7119.10	437.03
C44	6	PC	33+15.50	24.931 RT	20384.08	7163.08	437.01
		RP	33+21.50	25.000 RT	20390.02	7162.28	--
		PT	33+21.50	19.000 RT	20389.16	7156.34	437.07
C45	15	PC	33+93.58	19.000 LT	20455.02	7108.36	437.26
		RP	33+93.66	33.500 LT	20453.01	7093.99	--
		PT	33+97.27	19.460 LT	20458.60	7107.37	437.26
C46	15	PC	34+11.71	24.230 LT	20472.20	7100.57	437.22
		RP	34+16.45	10.000 LT	20478.94	7113.97	--
		PT	34+16.45	25.000 LT	20476.78	7099.12	437.22

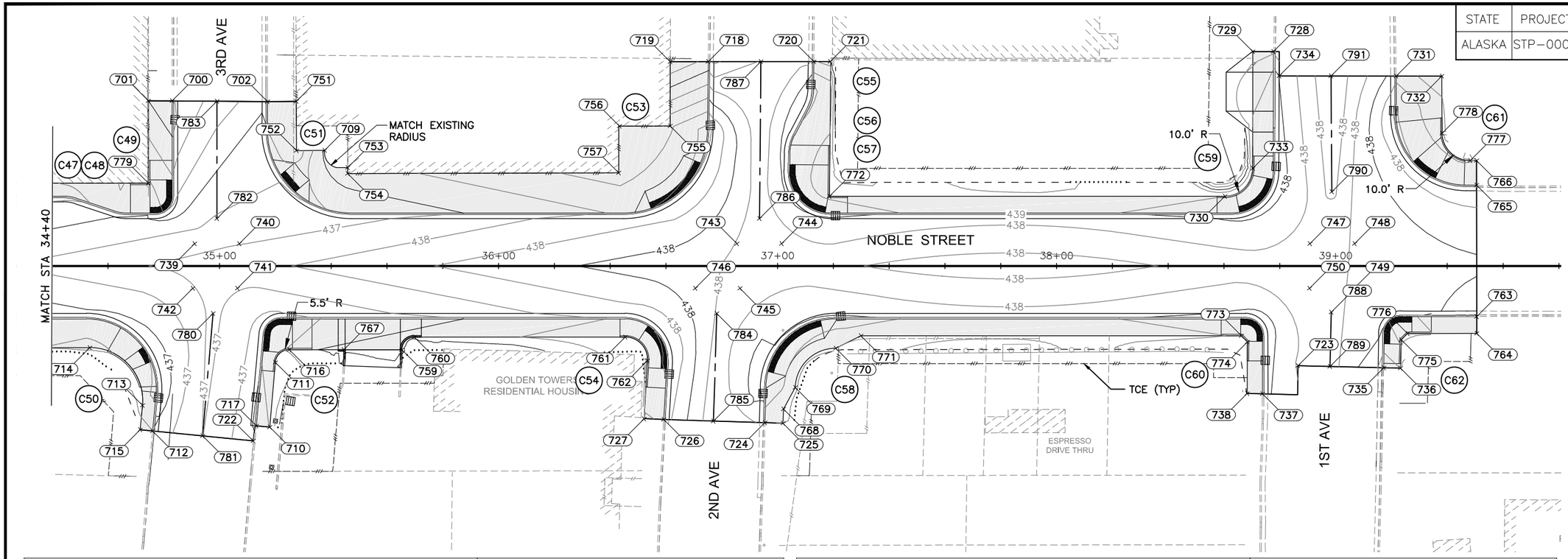
DETECTABLE WARNING

CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
N:20372.40 E:7117.84	17.6	2	
N:20385.23 E:7158.67	8.9	2	4

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

GRADING PLAN
29+60 - 34+40

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J9	-- --



FEET
20 10 0 20 40

CURVE LAYOUT TABLE

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.
C47	15	PC	34+44.01	25.000 LT	20504.06	7095.15	437.32
		RP	34+44.01	10.000 LT	20506.22	7110.00	--
		PT	34+48.76	24.230 LT	20508.86	7095.23	437.35
C48	15	PC	34+62.14	19.770 LT	20522.75	7097.72	437.49
		RP	34+66.80	33.500 LT	20525.38	7083.46	--
		PT	34+66.88	19.000 LT	20527.55	7097.79	437.53
C49	6	PC	34+77.03	19.000 LT	20537.59	7096.33	437.44
		RP	34+77.03	25.000 LT	20536.73	7090.40	--
		PT	34+83.03	25.001 LT	20542.66	7089.53	437.31
C50	25	PC	34+52.36	19.000 RT	20518.66	7137.49	437.47
		RP	34+52.36	44.000 RT	20522.26	7162.23	--
		PT	34+77.24	46.403 RT	20547.23	7161.02	437.36
C51	30	PC	35+18.20	41.336 LT	20575.12	7068.30	437.64
		RP	35+47.20	49.000 LT	20602.71	7056.54	--
		PT	35+47.20	19.000 LT	20607.04	7086.22	437.85
C52	6	PC	35+16.16	24.466 RT	20582.58	7133.71	437.64
		RP	35+22.13	25.000 RT	20588.57	7133.38	--
		PT	35+22.13	19.000 RT	20587.70	7127.44	437.69
C53	30	PC	36+44.86	19.000 LT	20703.68	7072.15	438.22
		RP	36+44.86	49.000 LT	20699.36	7042.47	--
		PT	36+74.86	48.631 LT	20729.09	7038.51	438.13
C54	15	PC	36+45.35	19.000 RT	20709.63	7109.69	438.23
		RP	36+45.35	34.000 RT	20711.79	7124.53	--
		PT	36+60.32	34.823 RT	20726.73	7123.19	438.17
C55	15	PC	37+12.89	63.187 LT	20764.63	7018.63	438.37
		RP	36+97.90	63.474 LT	20749.75	7020.50	--
		PT	37+11.18	56.511 LT	20763.90	7025.48	438.39

DETECTABLE WARNING

CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
N:20541.54 E:7093.98	8.9	2	6
N:20542.00 E:7146.89	5.9		
N:20582.98 E:7079.13	8.0		
N:20583.92 E:7129.58	8.9	4	6
N:20723.29 E:7060.55	24.6		
N:20724.07 E:7115.91	15.7		2

CURVE LAYOUT TABLE

NO.	R (FT)	DESC.	STATION	OFFSET	NORTHING	EASTING	ELEV.
C56	15	PC	37+06.17	46.939 LT	20760.31	7035.67	438.41
		RP	37+19.45	39.976 LT	20774.46	7040.65	--
		PT	37+04.45	40.263 LT	20759.58	7042.53	438.43
C57	15	PC	37+04.34	34.287 LT	20760.33	7048.46	438.45
		RP	37+19.34	34.000 LT	20775.21	7046.58	--
		PT	37+19.34	19.000 LT	20777.37	7061.42	438.52
C58	25	PC	36+95.85	43.263 RT	20763.10	7126.42	438.48
		RP	37+20.84	44.000 RT	20787.93	7123.55	--
		PT	37+20.84	19.000 RT	20784.33	7098.81	438.53
C59	15	PC	38+62.65	19.000 LT	20919.19	7040.78	438.48
		RP	38+62.65	34.000 LT	20917.04	7025.93	--
		PT	38+77.65	33.968 LT	20931.87	7023.81	438.41
C60	6	PC	38+67.80	19.000 RT	20929.76	7077.64	438.48
		RP	38+67.80	25.000 RT	20930.62	7083.58	--
		PT	38+73.80	25.024 RT	20936.56	7082.74	438.45
C61	25	PC	39+21.74	53.810 LT	20972.65	6997.82	438.15
		RP	39+46.74	53.944 LT	20997.37	6994.08	--
		PT	39+46.75	28.944 LT	21000.98	7018.82	438.26
C62	6	PC	39+17.46	24.047 RT	20979.63	7075.48	438.54
		RP	39+23.46	24.168 RT	20985.58	7074.73	--
		PT	39+23.47	18.168 RT	20984.73	7068.80	438.67

DETECTABLE WARNING

CP	ARC LENGTH (FT)	NOBLE TAN. (FT)	SIDE ST TAN. (FT)
N:20766.13 E:7058.52	21.5		2
N:20768.12 E:7108.31	27.5		
N:20929.04 E:7034.92	17.6		
N:20934.22 E:7078.77	8.9	2	2
N:20985.20 E:7015.92	9.8		
N:20980.81 E:7071.09	8.9	4	4

GRADING PLAN
34+40 – 38+70

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J10	– –

SHEET J3 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	10+37.25	−49.025	18118.86	7423.12		SDWK−PC
102	10+30.49	−46.563	18112.58	7426.63	439.20	EP
103	10+59.09	−25.000	18144.29	7443.31		SDWK−PT
104	10+24.52	37.102	18120.16	7510.17	MATCH EXISTING	TBC
105	10+29.03	37.532	18124.69	7509.87	MATCH EXISTING	SDWK
106	10+31.84	30.982	18126.41	7502.95		TBC−PC
107	10+44.43	25.000	18137.86	7495.02		TBC−PT
108	10+30.78	−49.642	18112.38	7423.55	439.20	EP
109	10+73.86	−155.693	18137.82	7311.94	MATCH EXISTING	EP
110	10+79.12	−151.875	18143.63	7314.86	MATCH EXISTING	SDWK

SHEET J4 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
201	16+15.85	28.000	18702.60	7410.98		TBC−PC
202	16+35.85	47.974	18725.27	7427.86		SDWK−PT
203	16+35.85	114.044	18734.78	7493.25	MATCH EXISTING	TBC
204	16+41.28	114.046	18740.17	7492.46	MATCH EXISTING	SDWK
205	16+25.44	−25.000	18704.45	7357.15		TBC−PC
206	16+41.02	−114.266	18707.01	7266.57	MATCH EXISTING	TBC
207	16+35.54	−114.273	18701.59	7267.35	MATCH EXISTING	SDWK
208	16+35.44	−34.987	18712.91	7345.83		TBC−PT
209	16+81.49	−54.184	18755.72	7320.20	MATCH EXISTING	TBC
210	16+85.46	−54.178	18759.65	7319.63	MATCH EXISTING	SDWK
211	16+82.46	57.893	18772.83	7430.96	438.98	SDWK
212	16+77.91	57.892	18768.32	7431.62	438.90	TBC
213	18+59.83	−80.595	18928.39	7268.37	MATCH EXISTING	TBC
214	18+54.15	−80.588	18922.77	7269.19	MATCH EXISTING	SDWK
215	19+00.34	−72.104	18969.70	7270.93	MATCH EXISTING	TBC
216	19+04.34	−72.104	18973.66	7270.36	MATCH EXISTING	SDWK
217	18+58.25	19.000	18941.18	7367.15		LNDG
218	19+02.91	19.000	18985.37	7360.72		LNDG
219	14+91.46	28.000	18579.51	7428.90		SDWK
220	14+88.46	25.000	18576.11	7426.36		SDWK
221	16+68.34	−8.000	18749.36	7367.79	438.46	FG
222	16+68.32	8.000	18751.64	7383.63	438.51	FG
223	16+52.34	−8.000	18733.53	7370.10	438.42	FG
224	16+52.32	8.000	18735.81	7385.93	438.46	FG
225	18+89.27	−8.000	18967.99	7335.96	439.26	FG
226	18+73.27	−8.000	18952.15	7338.27	439.21	FG
227	16+51.29	57.892	18741.98	7435.45	MATCH EXISTING	EP
228	16+50.93	−54.223	18725.47	7324.56	MATCH EXISTING	EP
229	16+85.88	−27.208	18763.94	7346.26		TBC
230	16+88.07	−25.000	18766.43	7348.13		TBC
231	16+86.02	25.000	18771.61	7397.90		TBC
232	16+83.75	27.215	18769.68	7400.42		TBC
233	19+06.02	−27.216	18981.79	7314.54		TBC
234	19+08.30	−25.000	18984.37	7316.40		TBC
235	18+73.96	−72.104	18943.59	7274.73	MATCH EXISTING	EP
236	16+60.32	17.000	18745.02	7393.69	438.61	BREAK
237	16+60.28	57.892	18750.88	7434.16	MATCH EXISTING	BREAK
238	16+60.37	−17.000	18740.18	7360.03	438.56	BREAK

SHEET J4 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
239	16+60.46	−54.211	18734.91	7323.20	MATCH EXISTING	BREAK
240	18+80.97	−17.000	18958.47	7328.25	439.23	BREAK
241	18+79.39	−72.104	18948.97	7273.95	MATCH EXISTING	BREAK
300	20+67.72	−46.545	19139.02	7272.11	MATCH EXISTING	SDWK
301	20+62.28	−46.506	19133.64	7272.93	MATCH EXISTING	SDWK
302	21+12.27	−46.512	19183.11	7265.73	MATCH EXISTING	SDWK
303	21+08.18	−46.482	19179.06	7266.35	MATCH EXISTING	TBC
304	21+11.54	42.927	19195.27	7354.34		SDWK−PC
305	21+06.45	62.092	19193.00	7374.04	MATCH EXISTING	TBC
306	21+11.58	62.108	19198.07	7373.31	MATCH EXISTING	SDWK
307	21+29.54	25.000	19210.50	7334.00		SDWK−PT
308	20+66.44	61.966	19153.39	7379.68	MATCH EXISTING	TBC
309	20+61.52	61.951	19148.51	7380.37	MATCH EXISTING	SDWK
310	20+43.54	25.000	19125.40	7346.39		SDWK−PC
311	20+61.54	42.986	19145.80	7361.60		SDWK−PT
312	22+74.39	−43.628	19343.95	7245.22	MATCH EXISTING	TBC
313	23+14.26	−43.657	19383.40	7239.45	MATCH EXISTING	TBC
314	23+28.48	−43.667	19397.48	7237.39	MATCH EXISTING	SDWK
315	22+73.14	19.000	19351.74	7307.38		LNDG
316	23+19.16	19.000	19397.28	7300.75		LNDG
317	24+02.09	−31.820	19472.02	7238.51	MATCH EXISTING	SDWK
318	24+02.03	−28.140	19472.49	7242.16		SDWK
319	23+28.52	−31.937	19399.20	7249.00		SDWK
320	24+17.62	−27.793	19487.97	7240.26		SDWK
321	24+17.51	−31.813	19487.28	7236.30	MATCH EXISTING	SDWK
322	20+95.53	−8.000	19172.09	7306.25	439.94	FG
323	20+95.33	8.000	19174.20	7322.11	439.84	FG
324	20+79.53	−7.979	19156.26	7308.58	439.83	FG
325	20+79.32	8.021	19158.36	7324.44	439.82	FG
326	23+04.22	−8.000	19378.60	7276.18	439.21	FG
327	22+88.21	−8.000	19362.76	7278.49	439.31	FG
328	22+69.71	−43.625	19339.33	7245.90	MATCH EXISTING	SDWK
329	23+33.24	−31.937	19403.88	7248.31	MATCH EXISTING	SDWK
330	23+33.32	−28.208	19404.49	7251.99		SDWK
331	20+60.17	−25.000	19134.65	7294.52		TBC
332	20+62.36	−27.205	19136.50	7292.02		TBC
333	21+12.76	−27.209	19186.38	7284.76		TBC
334	21+14.99	−25.000	19188.90	7286.62		TBC
335	22+68.29	−25.000	19340.60	7264.54		TBC
336	22+70.40	−27.190	19342.37	7262.07		TBC
337	20+87.03	17.000	19167.28	7332.21	439.89	BREAK
338	20+85.52	62.026	19172.27	7376.99	MATCH EXISTING	BREAK
339	20+93.18	−17.000	19168.47	7297.68	440.02	BREAK
340	20+92.93	−46.502	19163.97	7268.52	MATCH EXISTING	BREAK
341	22+95.84	−17.000	19369.01	7268.48	439.36	BREAK
342	22+94.73	−43.643	19364.08	7242.28	MATCH EXISTING	BREAK
400	25+25.88	−43.790	19592.79	7208.83	MATCH EXISTING	TBC

SHEET J5 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
401	25+32.34	−43.978	19599.16	7207.72	MATCH EXISTING	SDWK
402	24+88.94	−42.718	19556.39	7215.22	MATCH EXISTING	TBC
403	24+82.67	−33.980	19551.45	7224.76		TBC
404	25+25.37	41.694	19604.61	7293.50	438.58	TBC
405	25+30.37	41.689	19609.56	7292.77	MATCH EXISTING	SDWK
406	24+99.04	86.731	19585.04	7341.86	MATCH EXISTING	TBC
407	24+94.08	87.031	19580.17	7342.87	MATCH EXISTING	SDWK
408	26+86.24	−36.360	19752.56	7193.08	437.57	TBC
409	26+77.23	−69.002	19738.93	7162.08	MATCH EXISTING	SDWK
410	27+21.84	−44.570	19786.60	7179.83	437.49	TBC
411	27+25.91	−44.570	19790.63	7179.24	437.56	SDWK
412	27+16.58	43.401	19794.06	7267.64	MATCH EXISTING	TBC
413	27+22.08	43.488	19799.52	7266.93	MATCH EXISTING	SDWK
414	26+83.74	34.128	19760.23	7263.20	437.19	TBC
415	26+77.80	43.344	19755.68	7273.17	MATCH EXISTING	SDWK
416	28+88.45	−139.786	19937.76	7061.60	MATCH EXISTING	TBC
417	28+82.95	−139.787	19932.31	7062.39	MATCH EXISTING	SDWK
418	27+20.02	−70.644	19781.04	7154.29	MATCH EXISTING	EP
419	29+21.15	−63.624	19981.08	7132.26	MATCH EXISTING	TBC
420	29+24.83	−63.624	19984.73	7131.73	MATCH EXISTING	SDWK
421	26+82.26	43.485	19760.12	7272.67	MATCH EXISTING	TBC
422	29+12.60	48.950	19988.84	7244.89	436.32	TBC
423	29+17.63	48.950	19993.82	7244.17	436.81	SDWK
424	28+77.11	105.188	19961.82	7305.65	MATCH EXISTING	TBC
425	28+72.53	105.181	19957.29	7306.31	MATCH EXISTING	SDWK
426	25+16.45	−8.000	19588.62	7245.61	438.35	FG
427	25+00.44	−8.000	19572.78	7247.91	438.36	FG
428	25+17.18	8.000	19591.65	7261.33	438.25	FG
429	25+01.15	8.000	19575.79	7263.64	438.31	FG
430	27+08.86	−8.000	19779.02	7217.89	437.42	FG
431	27+08.66	8.000	19781.13	7233.75	437.33	FG
432	26+92.86	−8.000	19763.19	7220.19	437.46	FG
433	26+92.66	8.000	19765.30	7236.05	437.41	FG
434	28+98.22	−8.000	19966.41	7190.61	436.89	FG
435	29+14.23	−8.000	19982.25	7188.30	436.90	FG
436	29+03.40	8.000	19973.84	7205.69	436.86	FG
437	28+87.40	8.000	19958.01	7208.00	436.82	FG
438	29+12.39	73.075	19992.11	7268.79	MATCH EXISTING	EP
439	28+87.27	72.952	19967.23	7272.29	MATCH EXISTING	EP
440	29+00.62	−63.627	19960.77	7135.21	MATCH EXISTING	EP
441	25+29.07	85.529	19614.58	7336.34	MATCH EXISTING	EP
442	24+80.77	−25.000	19550.86	7233.93		TBC
443	24+82.87	−27.171	19552.63	7231.47		TBC
444	24+88.13	25.000	19565.35	7282.34		TBC
445	24+90.43	27.167	19567.94	7284.16		TBC
446	25+32.61	25.000	19609.37	7275.93		TBC

GRADING PLAN
CONTROL POINT TABLES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J11	– –

SHEET J5 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
447	25+30.40	27.208	19607.50	7278.44		TBC
448	25+32.89	-27.217	19602.12	7224.22		TBC
449	25+35.17	-25.001	19604.70	7226.09		TBC
450	26+77.23	-27.326	19744.94	7203.32		TBC
451	26+74.90	-25.000	19742.97	7205.96		TBC
452	26+75.76	25.000	19751.02	7255.31		TBC
453	26+77.90	27.198	19753.46	7257.18		TBC
454	27+22.43	27.216	19797.52	7250.78		TBC
455	27+24.70	25.000	19799.45	7248.26		TBC
456	27+28.05	-25.000	19795.57	7198.30		TBC
457	27+25.84	-27.207	19793.06	7196.43		TBC
458	28+86.15	-27.196	19951.70	7173.35		TBC
459	28+84.02	-25.000	19949.91	7175.83		TBC
460	28+72.85	25.000	19946.06	7226.92		TBC
461	29+17.77	27.705	19990.90	7223.12		TBC
462	29+19.99	25.499	19992.78	7220.62		TBC
463	29+25.80	-25.000	19991.25	7169.81		TBC
464	29+56.42	-25.000	20021.55	7165.40		SDWK
465	29+56.42	-21.000	20022.13	7169.36		SDWK
466	24+85.15	-34.055	19553.89	7224.33		TBC
467	24+84.91	-42.601	19552.43	7215.91	MATCH EXISTING	SDWK
468	26+81.20	-36.372	19747.57	7193.80		SDWK
469	26+81.23	-69.002	19742.89	7161.50	MATCH EXISTING	SDWK
470	26+86.25	-70.684	19747.62	7159.12	MATCH EXISTING	TBC
471	25+11.42	17.000	19587.24	7271.07	438.31	BREAK
472	25+15.62	86.048	19601.35	7338.79	MATCH EXISTING	BREAK
473	25+08.18	-17.000	19579.14	7237.89	438.45	BREAK
474	25+07.41	-43.254	19574.60	7212.02	MATCH EXISTING	BREAK
475	26+98.62	17.000	19772.49	7244.10	437.10	BREAK
476	26+97.94	43.447	19775.63	7270.37	MATCH EXISTING	BREAK
477	27+00.85	-17.000	19769.80	7210.13	437.50	BREAK
478	27+00.81	-70.668	19762.02	7157.03	MATCH EXISTING	BREAK
479	28+97.27	18.070	19969.22	7216.54	436.76	BREAK
480	28+96.90	72.999	19976.77	7270.95	MATCH EXISTING	BREAK
481	29+06.02	-15.940	19972.98	7181.63	436.94	BREAK
482	29+04.82	-63.627	19964.93	7134.61	MATCH EXISTING	BREAK

SHEET J6 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
601	30+72.90	-46.308	20133.75	7127.53	MATCH EXISTING	SDWK
602	31+18.16	-34.694	20180.21	7132.50	MATCH EXISTING	TBC
603	31+24.56	-34.500	20186.57	7131.77	MATCH EXISTING	SDWK
604	31+13.60	75.340	20191.55	7242.05	MATCH EXISTING	TBC
605	31+19.60	75.340	20197.49	7241.18	MATCH EXISTING	SDWK
606	30+76.06	75.340	20154.40	7247.46	MATCH EXISTING	TBC
607	30+69.62	75.340	20148.03	7248.38	MATCH EXISTING	SDWK
608	32+80.05	-39.082	20339.78	7104.84	MATCH EXISTING	TBC
609	32+74.35	-38.993	20334.15	7105.75	MATCH EXISTING	TBC
610	33+12.80	-64.590	20368.51	7074.88	MATCH EXISTING	TBC
611	33+21.31	-64.592	20376.93	7073.65	MATCH EXISTING	SDWK
612	30+91.49	-35.500	20153.70	7135.55	MATCH EXISTING	EP

SHEET J6 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
613	32+78.49	48.447	20350.84	7191.68	MATCH EXISTING	TBC
614	33+15.23	48.447	20387.20	7186.39	MATCH EXISTING	TBC
615	33+21.59	48.447	20393.49	7185.47	MATCH EXISTING	TBC
616	32+79.33	34.104	20349.60	7177.37	436.81	TBC
617	32+71.24	48.444	20343.67	7192.72	MATCH EXISTING	SDWK
618	30+89.67	-8.000	20155.86	7163.02	436.50	FG
619	31+05.67	-8.000	20171.70	7160.72	436.34	FG
620	31+05.19	8.000	20173.53	7176.62	436.29	FG
621	30+89.18	8.000	20157.68	7178.93	436.41	FG
622	32+89.03	-8.000	20353.14	7134.30	436.74	FG
623	33+05.03	-8.000	20368.97	7132.00	436.76	FG
624	33+04.99	8.000	20371.24	7147.84	436.80	FG
625	32+88.99	8.000	20355.41	7150.14	436.71	FG
626	32+81.65	-64.583	20337.69	7079.37	MATCH EXISTING	FG
627	30+72.25	-25.277	20136.13	7148.44		SDWK
628	30+52.04	-26.237	20116.00	7150.40	MATCH EXISTING	SDWK
629	30+52.17	-28.984	20115.73	7147.66	MATCH EXISTING	SDWK
630	30+60.82	25.000	20132.07	7199.84		tbc
631	30+71.44	27.395	20142.92	7200.68		tbc
632	31+24.53	-30.000	20187.18	7136.23		SDWK
633	31+21.44	27.219	20192.37	7193.30		TBC
634	31+23.75	25.000	20194.33	7190.77		TBC
635	32+74.35	-30.000	20335.45	7114.65		TBC
636	32+71.71	25.000	20340.76	7169.45		TBC
637	33+21.65	29.299	20390.79	7166.51		TBC
638	33+21.32	-29.600	20381.98	7108.28		TBC
639	30+96.81	17.942	20166.66	7187.67	436.50	BREAK
640	30+94.64	75.340	20172.78	7244.78	MATCH EXISTING	BREAK
641	30+96.32	-15.973	20161.29	7154.18	436.76	BREAK
642	30+96.75	-35.341	20158.93	7134.95	MATCH EXISTING	BREAK
643	32+99.26	17.000	20366.86	7157.57	436.85	BREAK
644	32+98.74	48.447	20370.88	7188.76	MATCH EXISTING	BREAK
645	32+95.22	-17.000	20357.97	7124.51	436.82	BREAK
646	32+94.66	-64.586	20350.56	7077.50	MATCH EXISTING	BREAK
700	34+83.02	-59.154	20537.74	7055.73	MATCH EXISTING	TBC

SHEET J7 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
701	34+74.52	-59.208	20529.32	7056.91	MATCH EXISTING	SDWK
702	35+17.18	-58.937	20571.58	7051.03	MATCH EXISTING	TBC
709	35+37.68	-41.421	20594.38	7065.41	MATCH EXISTING	LNDG
710	35+18.00	57.777	20589.20	7166.41	437.60	SDWK
711	35+20.03	34.587	20587.87	7143.17		TBC-PC
712	34+76.01	59.145	20547.85	7173.81	MATCH EXISTING	TBC
713	34+72.39	49.923	20542.94	7165.21		SDWK-PT
714	34+53.46	29.300	20521.23	7147.52		SDWK-PC
715	34+71.58	58.707	20543.40	7174.01	MATCH EXISTING	PT
716	35+25.02	30.000	20592.14	7137.91		SDWK-PT
717	35+13.23	57.316	20584.41	7166.64	437.53	TBC
718	36+75.17	-73.226	20725.85	7014.13	MATCH EXISTING	TBC
719	36+61.56	-73.180	20712.39	7016.13	MATCH EXISTING	SDWK

SHEET J7 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
720	37+13.00	-73.221	20763.29	7008.68	MATCH EXISTING	TBC
721	37+18.88	-73.226	20769.11	7007.83	MATCH EXISTING	SDWK
722	35+12.10	62.717	20584.07	7172.15	MATCH EXISTING	EP
723	38+86.51	35.769	20950.69	7091.54	MATCH EXISTING	EP
724	36+95.47	56.175	20764.59	7139.25	MATCH EXISTING	TBC
725	37+01.90	56.376	20770.98	7138.53	MATCH EXISTING	SDWK
726	36+59.21	55.040	20728.54	7143.35	MATCH EXISTING	TBC
727	36+52.11	54.817	20721.48	7144.16	MATCH EXISTING	SDWK
728	38+77.74	-76.866	20925.79	6981.34	MATCH EXISTING	TBC
729	38+70.29	-76.866	20918.42	6982.41	MATCH EXISTING	SDWK
730	38+60.30	-25.000	20916.00	7035.18		tbc-pc
731	39+21.70	-68.032	20970.57	6983.75	MATCH EXISTING	TBC
732	39+38.07	-68.044	20986.75	6981.38	MATCH EXISTING	SDWK
733	38+70.29	-35.000	20924.45	7023.84		TBC-PT
734	38+79.76	-68.140	20929.04	6989.69	MATCH EXISTING	EP
735	39+17.21	36.489	20981.17	7087.83	MATCH EXISTING	TBC
736	39+23.24	36.611	20987.16	7087.08	MATCH EXISTING	SDWK
737	38+73.79	45.824	20939.55	7103.32	MATCH EXISTING	TBC
738	38+68.33	45.714	20934.13	7104.00	MATCH EXISTING	SDWK
739	34+91.09	-8.000	20553.09	7105.19	437.31	FG
740	35+07.09	-8.000	20568.93	7102.89	437.39	FG
741	35+06.45	8.000	20570.60	7118.81	437.41	FG
742	34+90.39	8.000	20554.71	7121.13	437.39	FG
743	36+85.43	-8.000	20745.41	7077.19	438.20	FG
744	37+01.43	-8.000	20761.24	7074.89	438.23	FG
745	36+86.51	8.000	20748.77	7092.87	438.21	FG
746	36+70.50	8.000	20732.93	7095.18	438.09	FG
747	38+90.80	-8.000	20948.63	7047.61	438.21	FG
748	39+06.80	-8.000	20964.47	7045.30	438.19	FG
749	39+06.67	8.000	20966.64	7061.15	438.19	FG
750	38+90.66	8.000	20950.80	7063.46	438.26	FG
751	35+27.52	-58.957	20581.80	7049.52	MATCH EXISTING	SDWK
752	35+27.61	-41.344	20584.43	7066.94		SDWK
753	35+45.96	-35.227	20603.47	7070.34	MATCH EXISTING	SDWK
754	35+45.95	-33.109	20603.76	7072.44		SDWK
755	36+61.50	-50.160	20715.65	7038.92		SDWK
756	36+43.34	-50.098	20697.69	7041.60	MATCH EXISTING	SDWK
757	36+43.05	-33.347	20699.81	7058.22		SDWK
759	35+65.34	30.000	20632.04	7132.10		TBC-PC
760	35+69.84	25.500	20635.84	7127.00		TBC-PT
761	36+45.37	25.500	20710.59	7116.12		SDWK-PC
762	36+53.36	33.939	20719.71	7123.32		SDWK-PT
763	39+50.58	18.178	21011.56	7064.90	MATCH EXISTING	TBC
764	39+50.56	24.154	21012.41	7070.82	MATCH EXISTING	SDWK
765	39+50.48	-28.961	21004.67	7018.27	MATCH EXISTING	TBC
766	39+50.48	-37.783	21003.40	7009.54	MATCH EXISTING	SDWK

GRADING PLAN
CONTROL POINT TABLES

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	J12	– –

SHEET J7 CONTROL POINT TABLE

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
767	35+44.52	30.000	20611.44	7135.10		TBC
768	37+02.10	51.279	20770.45	7133.45		SDWK
769	37+06.34	43.573	20773.53	7125.22		SDWK
770	37+20.84	29.500	20785.84	7109.20		SDWK
771	37+29.84	25.000	20794.10	7103.45		SDWK
772	37+18.59	-25.000	20775.77	7055.59		TBC
773	38+66.23	25.001	20929.07	7083.80		TBC
774	38+68.40	27.202	20931.54	7085.67		TBC
775	39+23.51	26.416	20985.96	7076.95		TBC
776	39+25.79	24.200	20987.89	7074.43		TBC
777	39+48.23	-37.764	21001.17	7009.88		SDWK-PC
778	39+38.14	-47.596	20989.78	7001.60		TBC-PT
779	34+74.58	-29.626	20533.64	7086.17		TBC
780	34+97.66	17.000	20563.20	7128.98	437.45	BREAK
781	34+93.96	60.922	20565.87	7172.98	MATCH EXISTING	BREAK
782	34+99.08	-17.000	20559.71	7095.13	437.22	BREAK
783	34+99.06	-59.041	20553.62	7053.54	MATCH EXISTING	BREAK
784	36+78.22	17.000	20741.87	7102.97	438.24	BREAK
785	36+77.01	55.597	20746.24	7141.34	MATCH EXISTING	BREAK
786	36+93.51	-17.000	20752.11	7067.12	438.28	BREAK
787	36+94.03	-73.226	20744.52	7011.41	MATCH EXISTING	BREAK
788	38+98.45	16.542	20959.74	7070.79	438.38	BREAK
789	38+97.97	36.032	20962.07	7090.15	MATCH EXISTING	BREAK
790	38+98.66	-26.574	20953.73	7028.09	438.48	BREAK
791	38+98.34	-68.084	20947.44	6987.06	MATCH EXISTING	BREAK

GRADING PLAN
CONTROL POINT TABLES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	L1	– –

H:\1Projects\Noble Street\95 Noble St\95.10-L1-Noble St.dwg

PLANT SCHEDULE

COMMON NAME	BOTANICAL NAME	QUANTITY	SPACING (MIN.)	SIZE	NOTES
TREES					
BIRCH	BETULA PAPYRIFERA	48	10' O.C.	3" CAL.	
SPRUCE	PICEA GLAUCA	17	AS SHOWN	2' TALL	NURSERY GROWN
SHRUBS					
COTONEASTER	COTONEASTER ACUTIFOLIUS	32	3' O.C.	36' TALL	FOR PLANTERS

NOTES

1. ALL PLANTS SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI) Z60.1-2004 (AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA) 1200 G ST., NW, SUITE 800 WASHINGTON, DC 20005 WWW.ANLA.ORG)

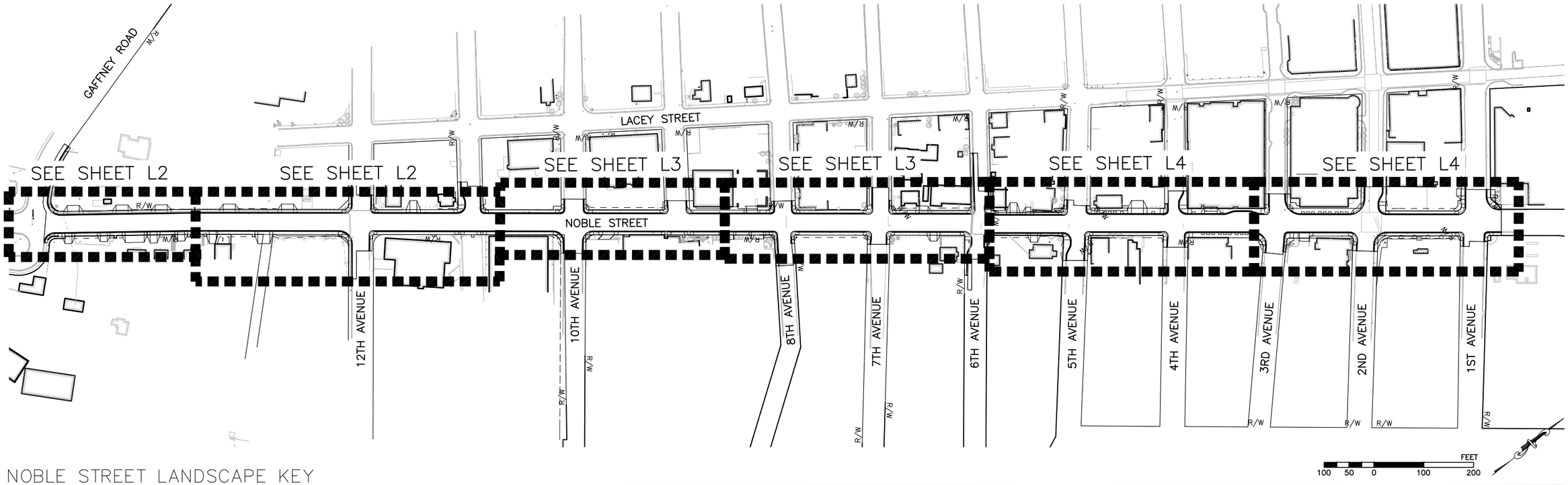
2. ALL BIRCH SHALL HAVE A CANOPY NO LESS THAN ONE HALF THE OVERALL HEIGHT.

3. MULCH CONTINUOUSLY THROUGHOUT ALL PLANTING BEDS WITH 3" SHREDDED BARK MULCH (OR GRAVEL MULCH WHERE SPECIFIED). KEEP MULCH 6" AWAY FROM STEMS AND TRUNKS. TRANSITION MULCH TO EDGING AND ADJACENT SURFACES. SEE MULCH LIMIT DETAIL.

4. TOPSOIL AND SEED ALL DISTURBED AREAS, SEE CIVIL FOR WORK LIMITS. DO NOT SEED PLANTING BEDS. TOPSOIL DEPTH SHALL BE 4".

5. SEE PLANTING DETAILS FOR ADDITIONAL INFORMATION.

6. HEIGHT TO SPREAD RATIO OF EVERGREEN TREES EQUAL 5 (HEIGHT):3 (SPREAD). EVERGREENS TO BE FULLY BRANCHED TO GROUND AND HAVE A MINIMUM OPACITY OF 80%.



NOBLE STREET LANDSCAPE KEY

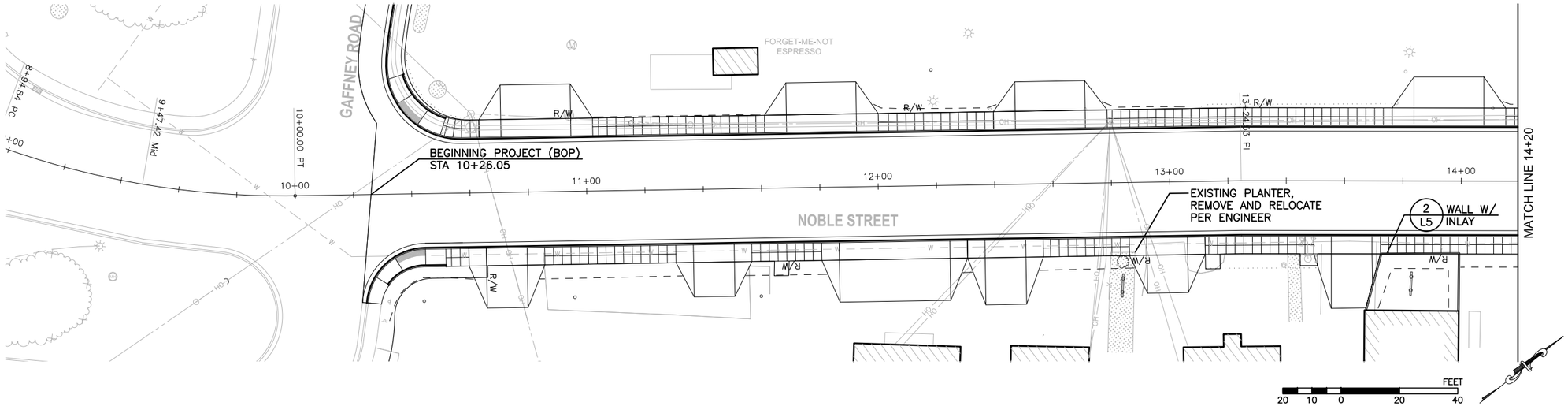
LANDSCAPE SHEET LAYOUT INDEX

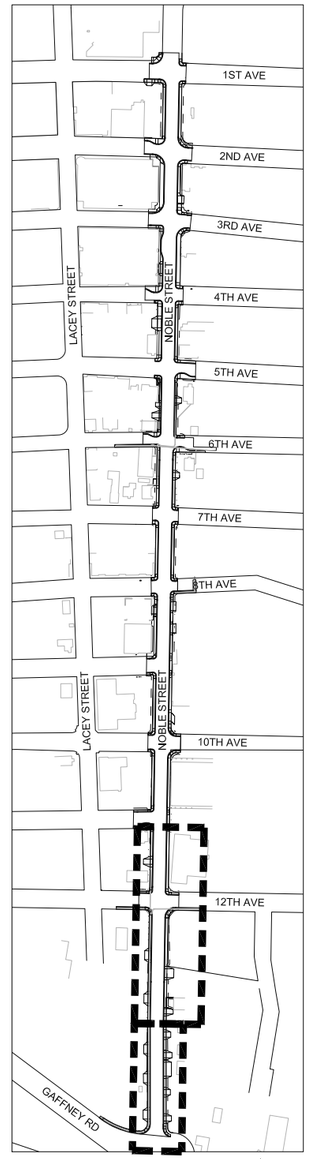
STATE OF ALASKA
49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

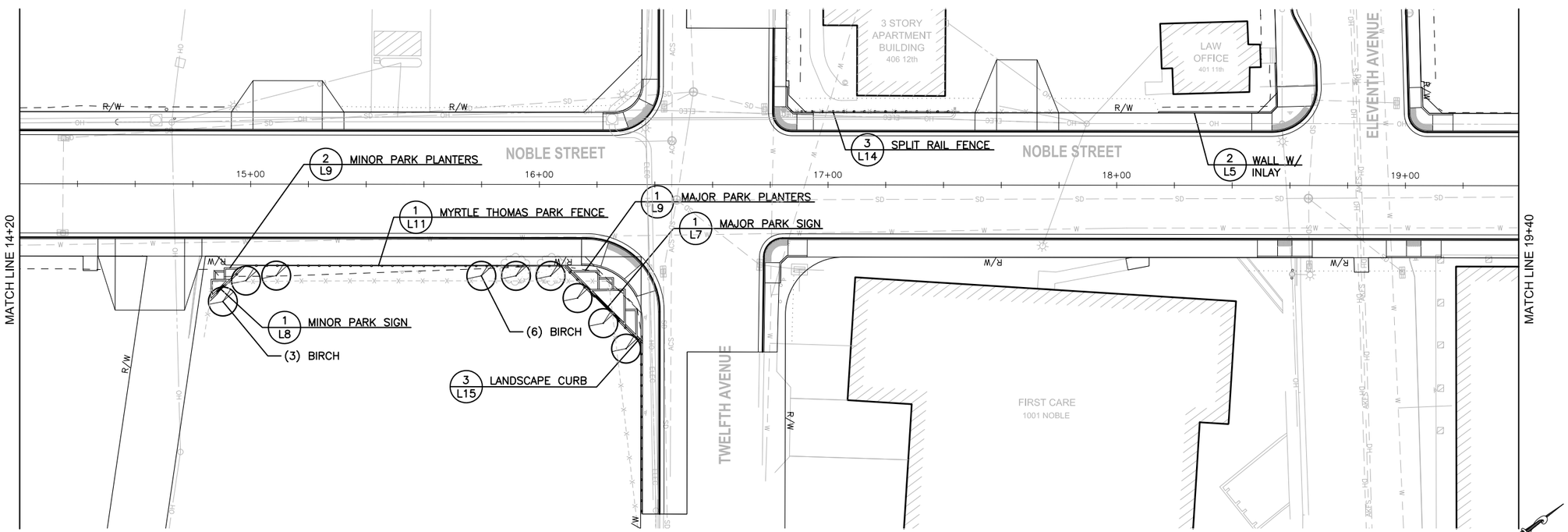
Wednesday, December 10, 2014, 5:05 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	L2	– –

H:\1Projects\Noble Street\95 Noble St\95.10-L1-Noble St.dwg







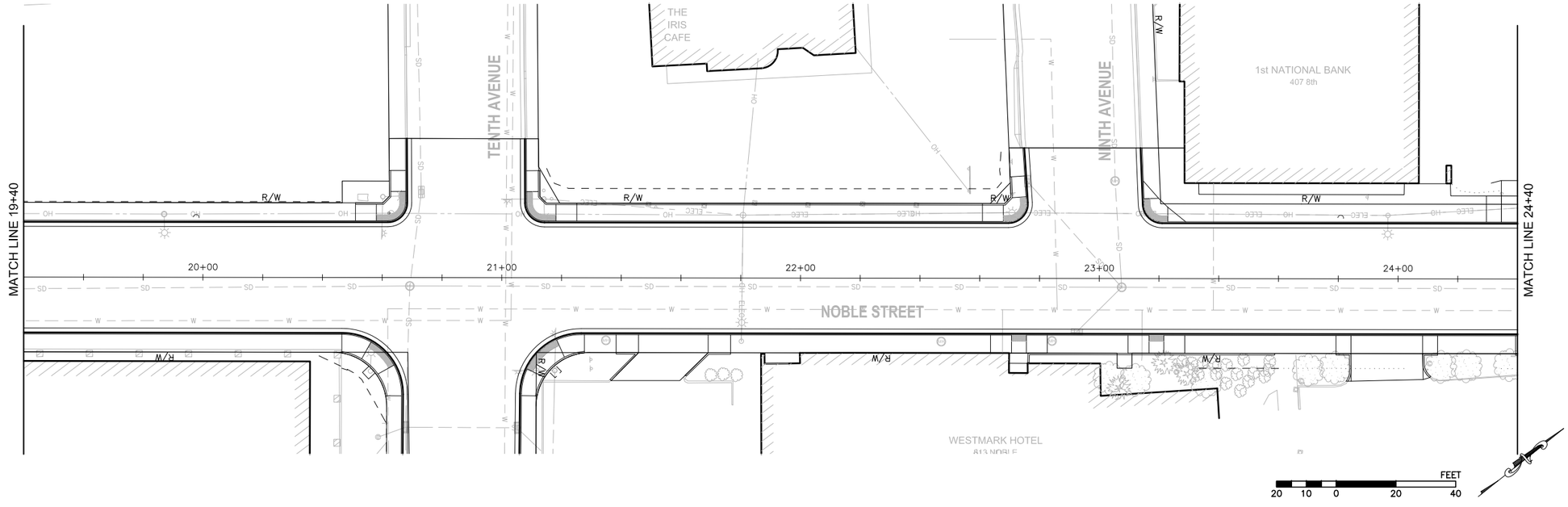
Wednesday, December 10, 2014, 5:05 PM

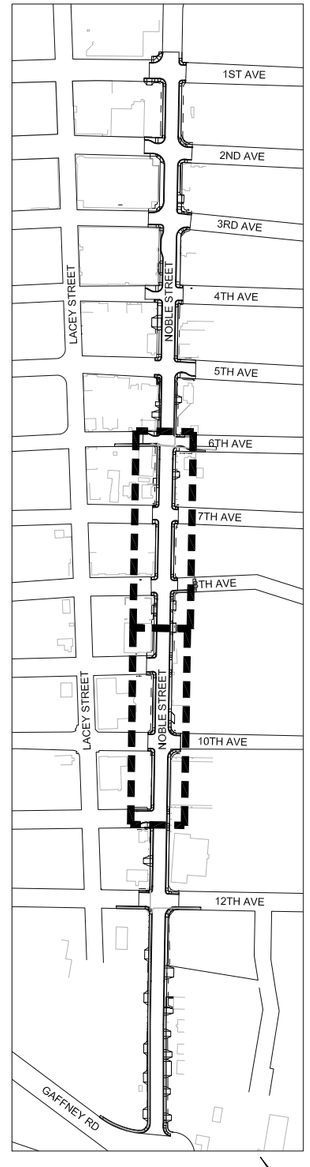
LANDSCAPE PLAN 9+58–19+40

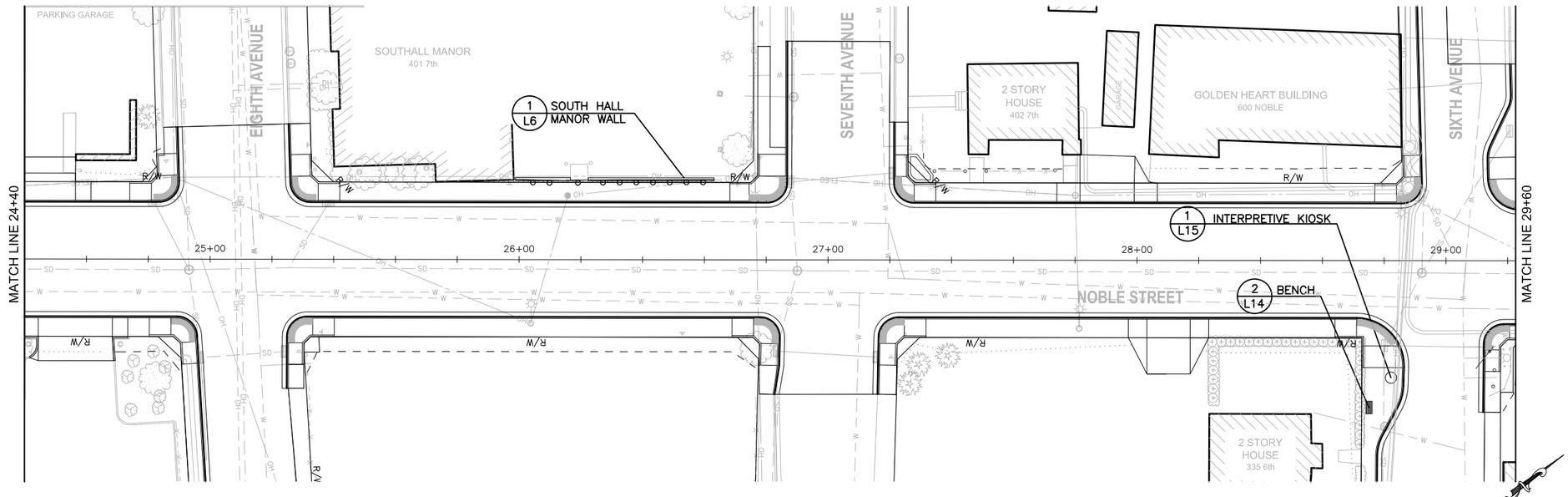
STATE OF ALASKA 49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	L3	– –

H:\1Projects\Noble Street\95 Noble St\95.10-L1-Noble St.dwg







LANDSCAPE PLAN 19+40–29+60

STATE OF ALASKA 49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

Wednesday, December 10, 2014, 5:05 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	L4	– –

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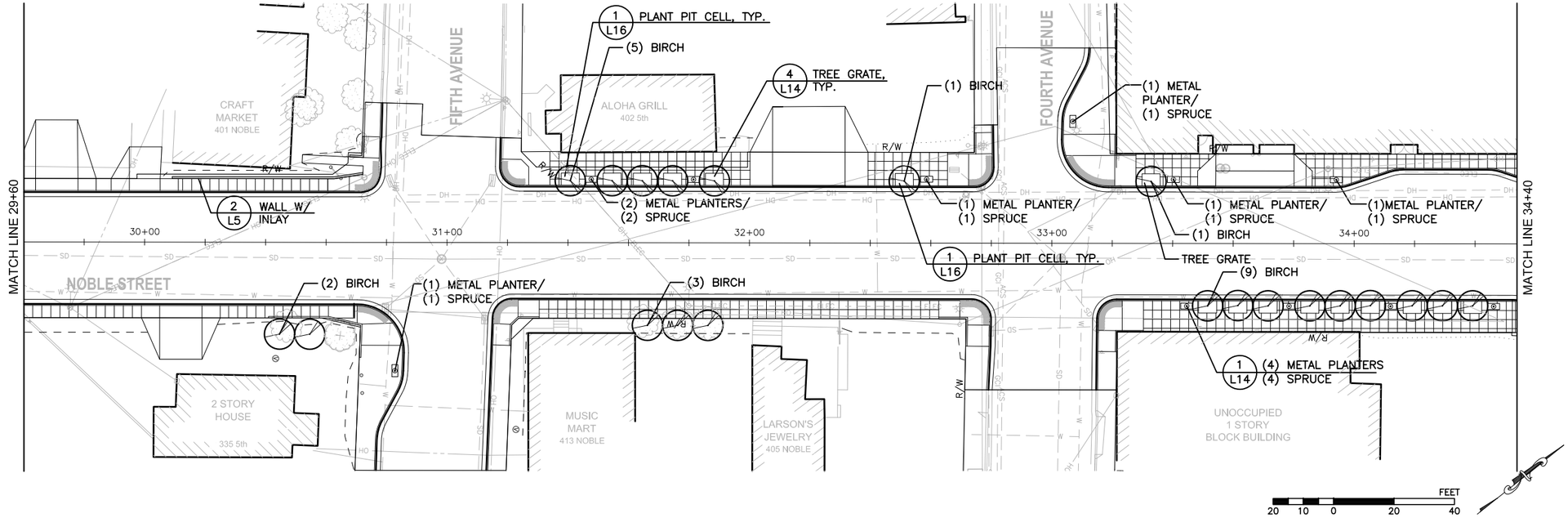

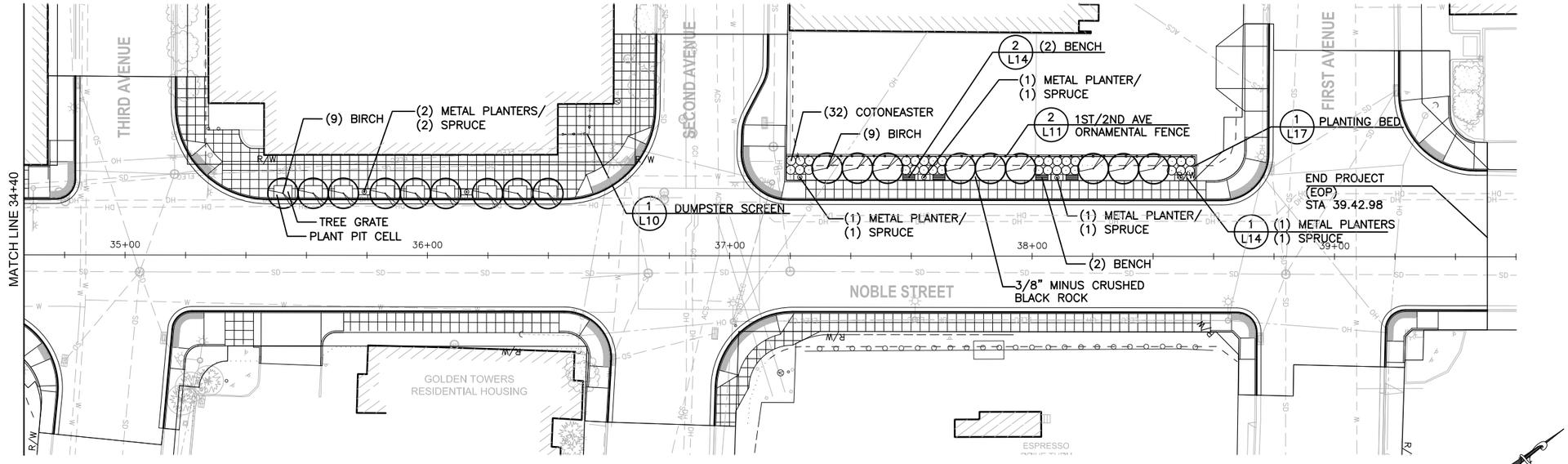

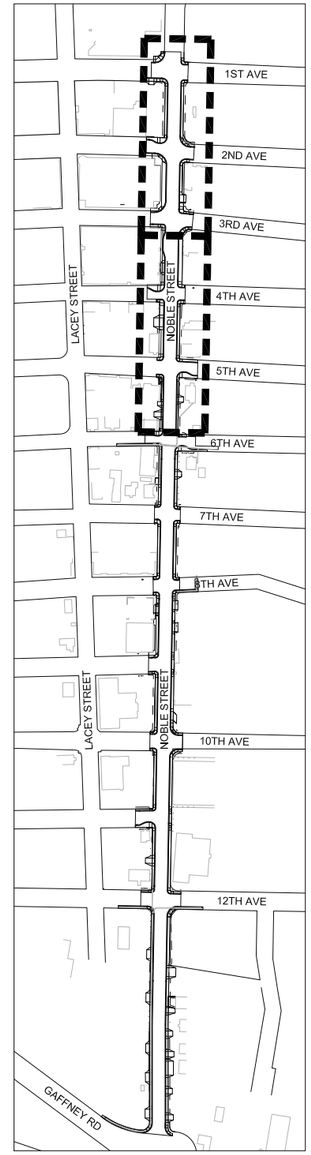

LANDSCAPE PLAN 29+60–39+50

STATE OF ALASKA 49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

Wednesday, December 10, 2014, 5:05 PM

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ALASKA	STP-000S(413)/61725	2015	L5	– –

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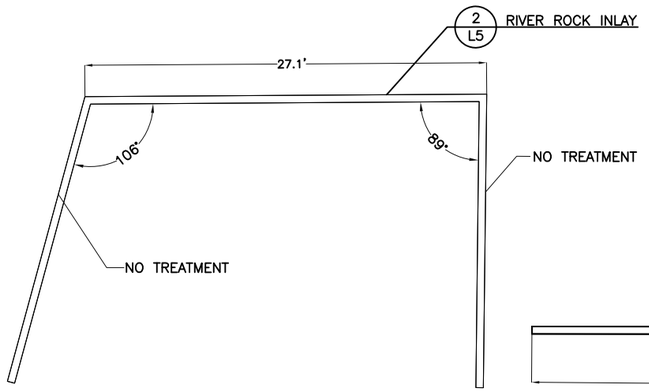
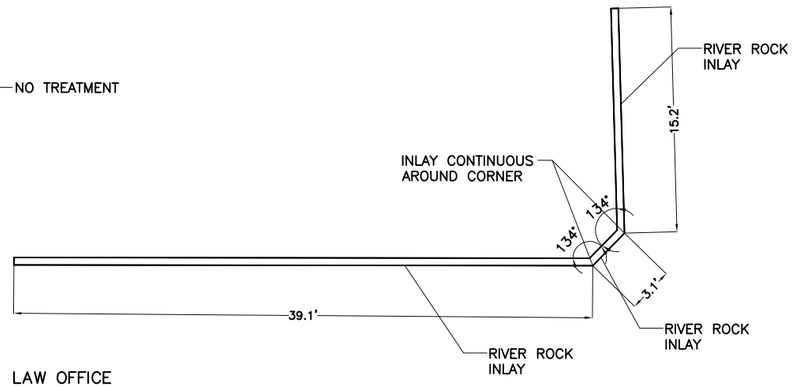
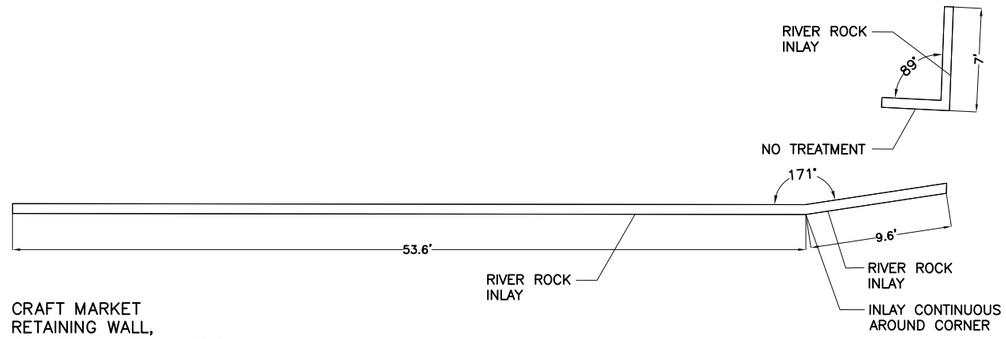


SPAULDING CHIROPRACTIC
RETAINING WALL,
STA 13+67.2 TO 13+99.5



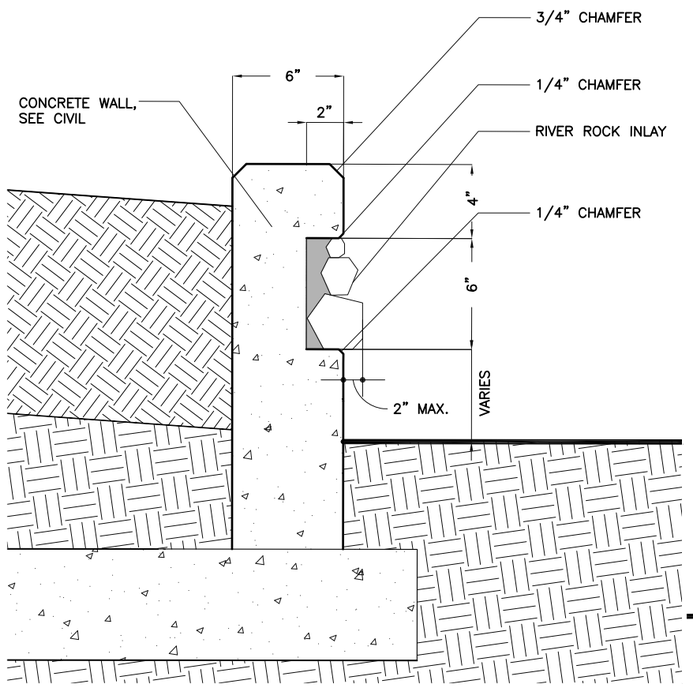
LAW OFFICE
RETAINING WALL,
STA 18+14.5 TO 18+55.7

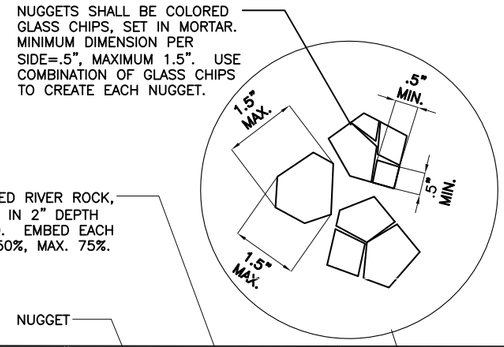


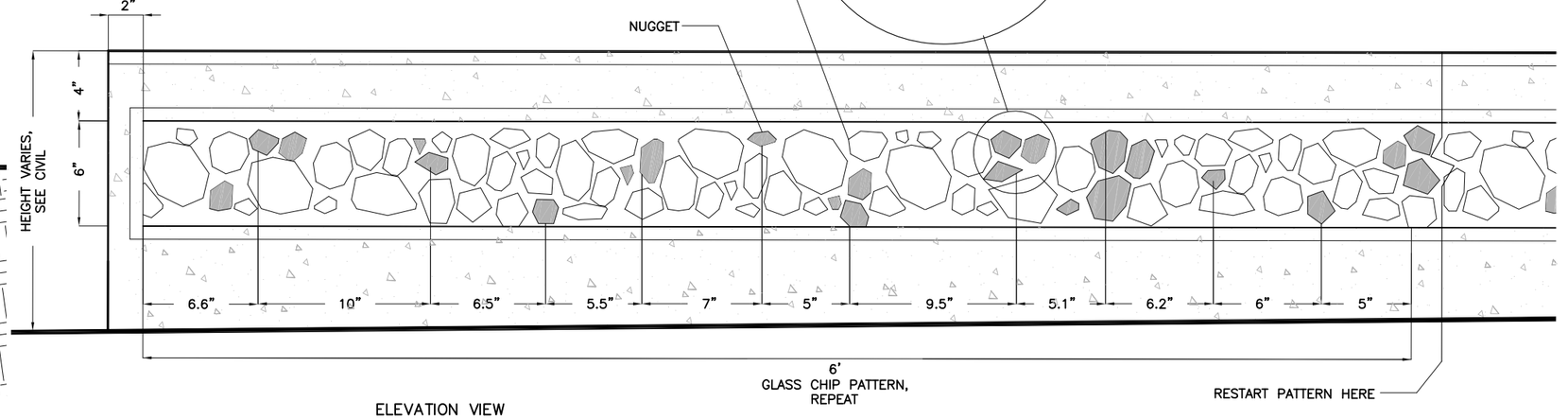
CRAFT MARKET
RETAINING WALL,
STA 30+9.1 TO 30+72.2

1/L5 WALL LAYOUT PLAN VIEW

SCALE: NTS







ELEVATION VIEW

2/L5 RIVER ROCK INLAY DETAIL

SCALE: NTS

STATE OF ALASKA
49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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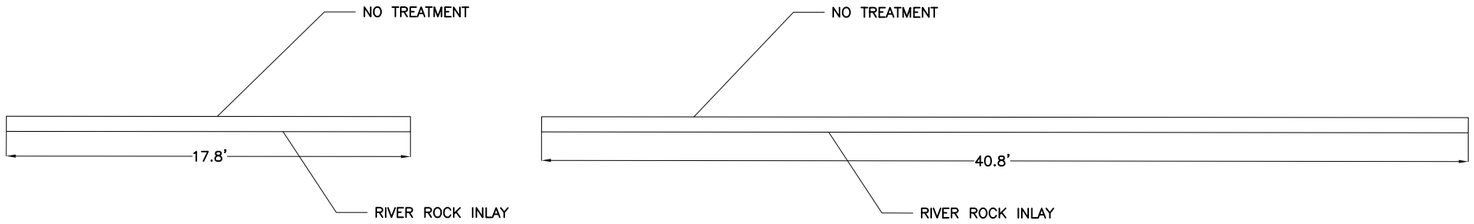
ALASKA	STP-000S(413)/61725	2015	L6	– –

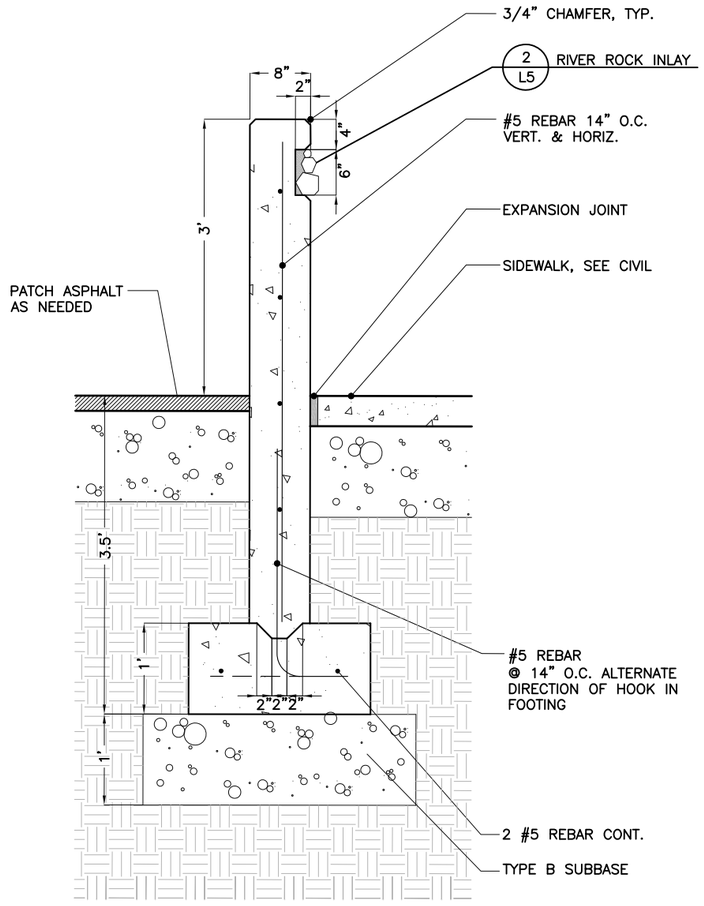
H:\1Projects\Noble Street\95 Noble St\95.10-L1-Noble St.dwg

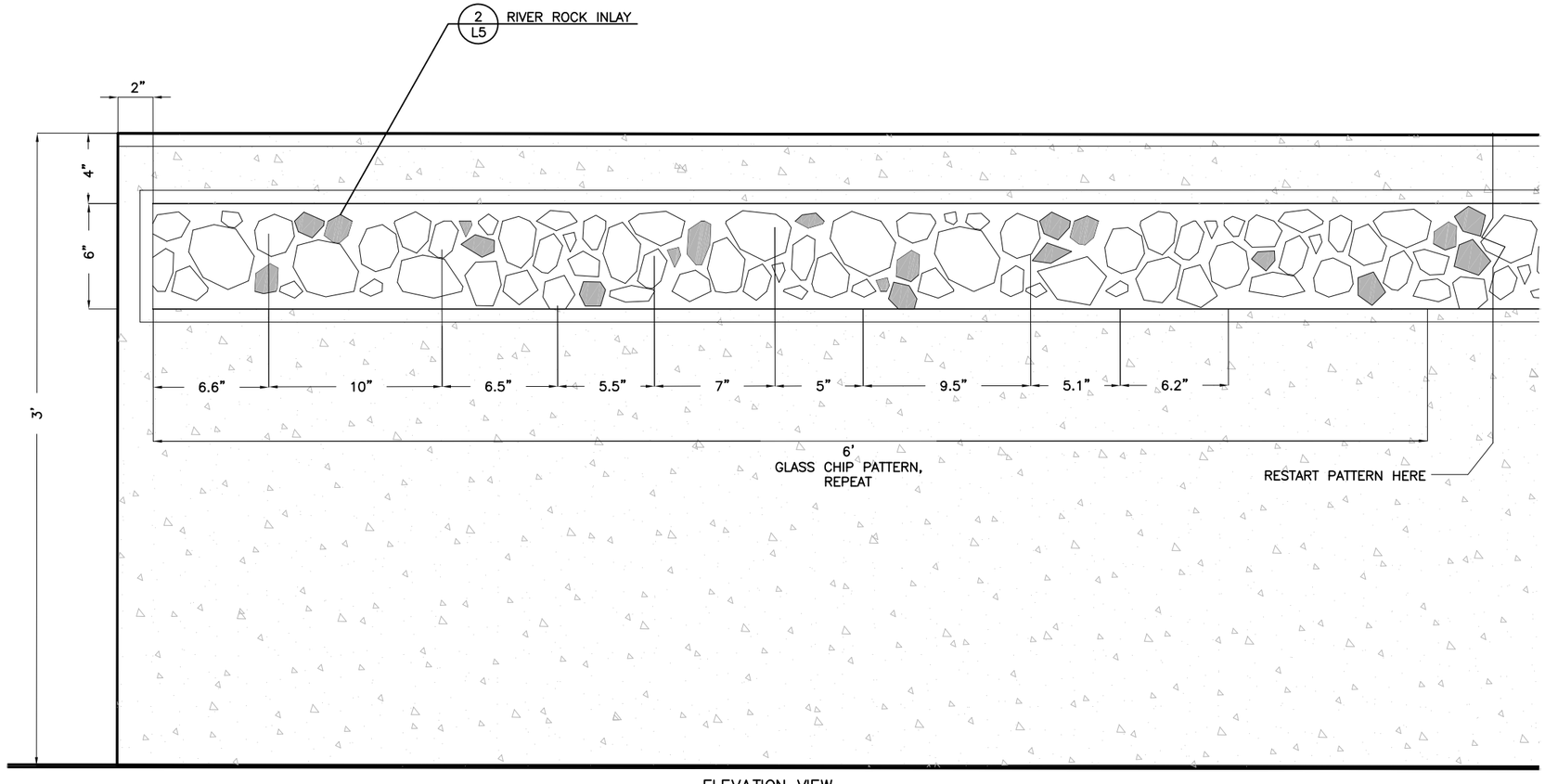


SOUTH HALL MANOR
RETAINING WALL,
STA 25+98.81 TO 26+63.12

1/L6 SOUTH HALL MANOR WALL PLAN VIEW

SCALE: NTS





ELEVATION VIEW

2/L6 SOUTH HALL MANOR WALL DETAIL

SCALE: NTS

LANDSCAPE DETAILS (2 OF 13)

STATE OF ALASKA
49TH
Wm. Dwayne Adams, Jr.
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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L7	– –

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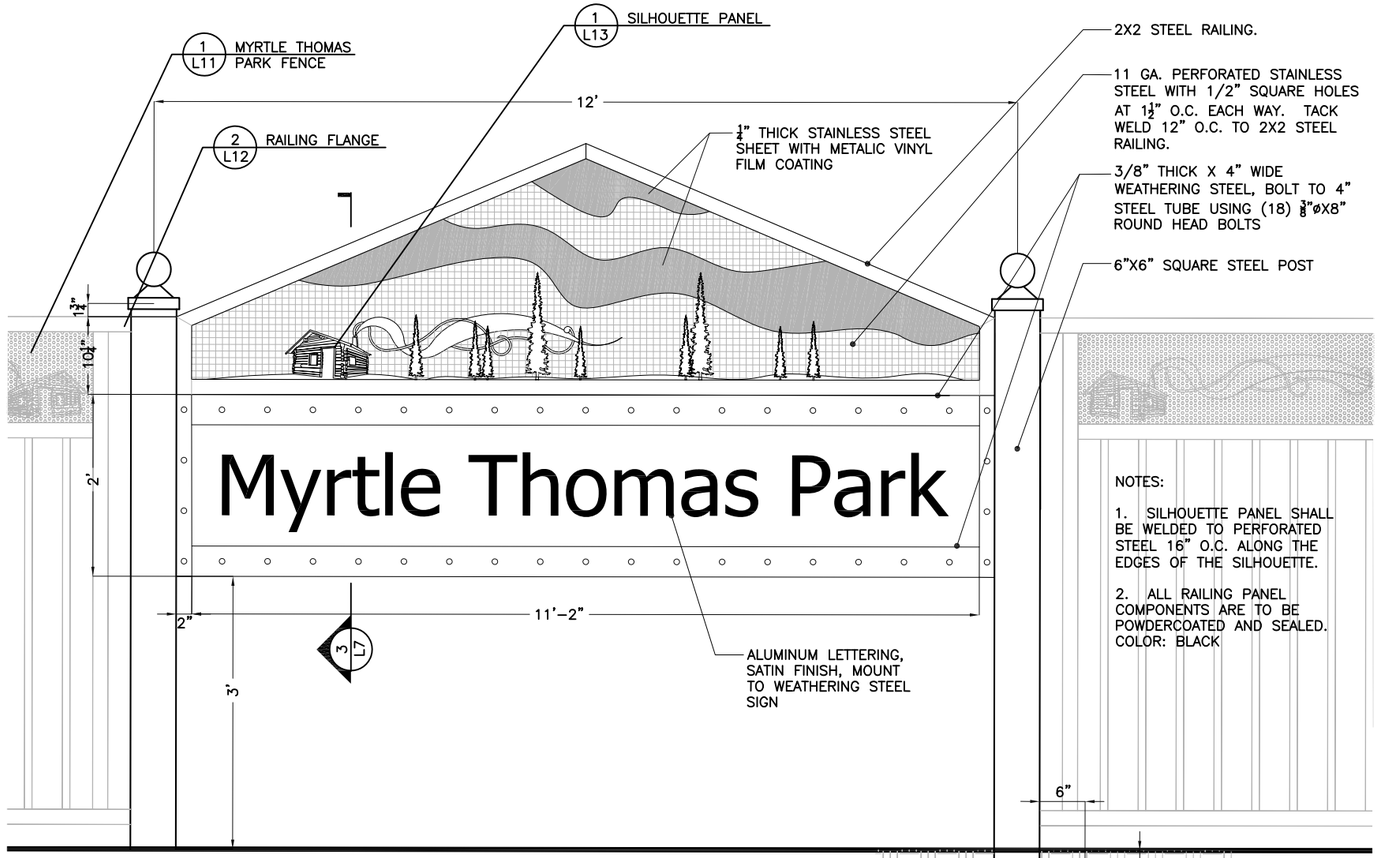
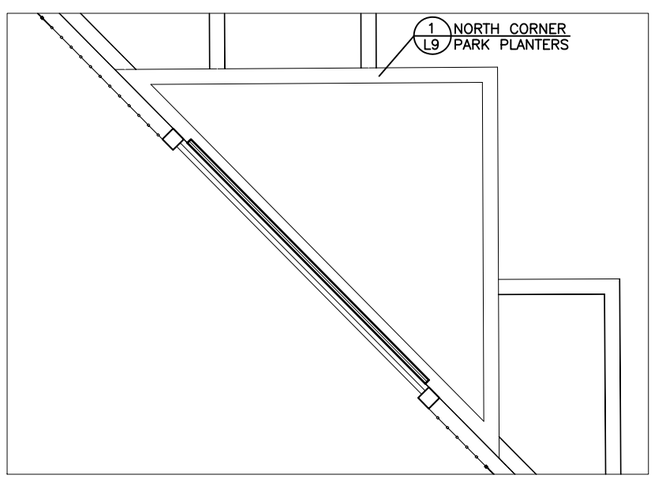


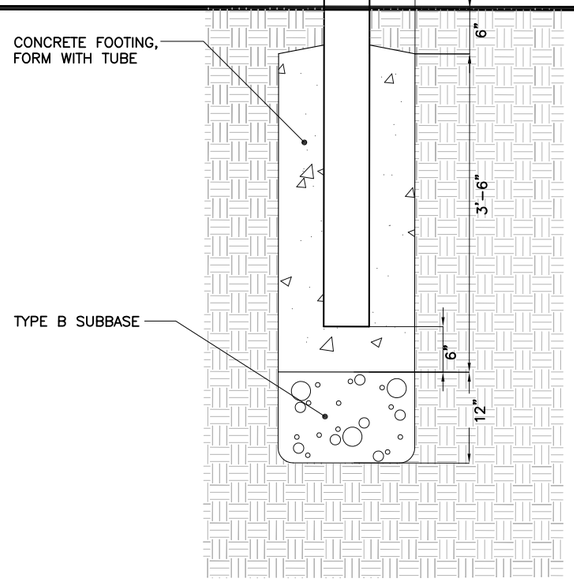
NOTES:

1. SILHOUETTE PANEL SHALL BE WELDED TO PERFORATED STEEL 16" O.C. ALONG THE EDGES OF THE SILHOUETTE.

2. ALL RAILING PANEL COMPONENTS ARE TO BE POWDERCOATED AND SEALED. COLOR: BLACK

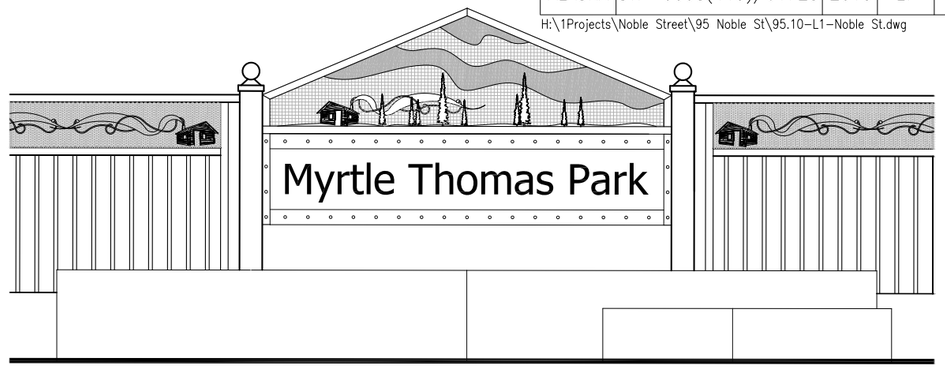


PLAN VIEW 1" = 30'0"



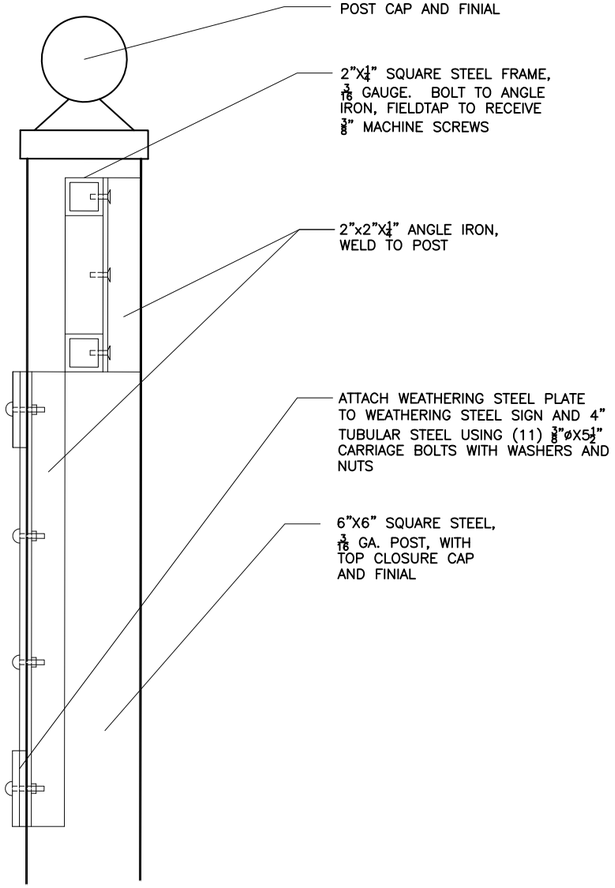
1 L7 MAJOR PARK SIGN

SCALE: NTS



2 L7 MINOR PARK SIGN ELEVATION

SCALE: NTS



3 L7 MINOR PARK SIGN CROSS SECTION

SCALE: NTS

LANDSCAPE DETAILS (3 OF 13)

STATE OF ALASKA 49TH Wm. Dwayne Adams, Jr. No. 10434 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L8	– –

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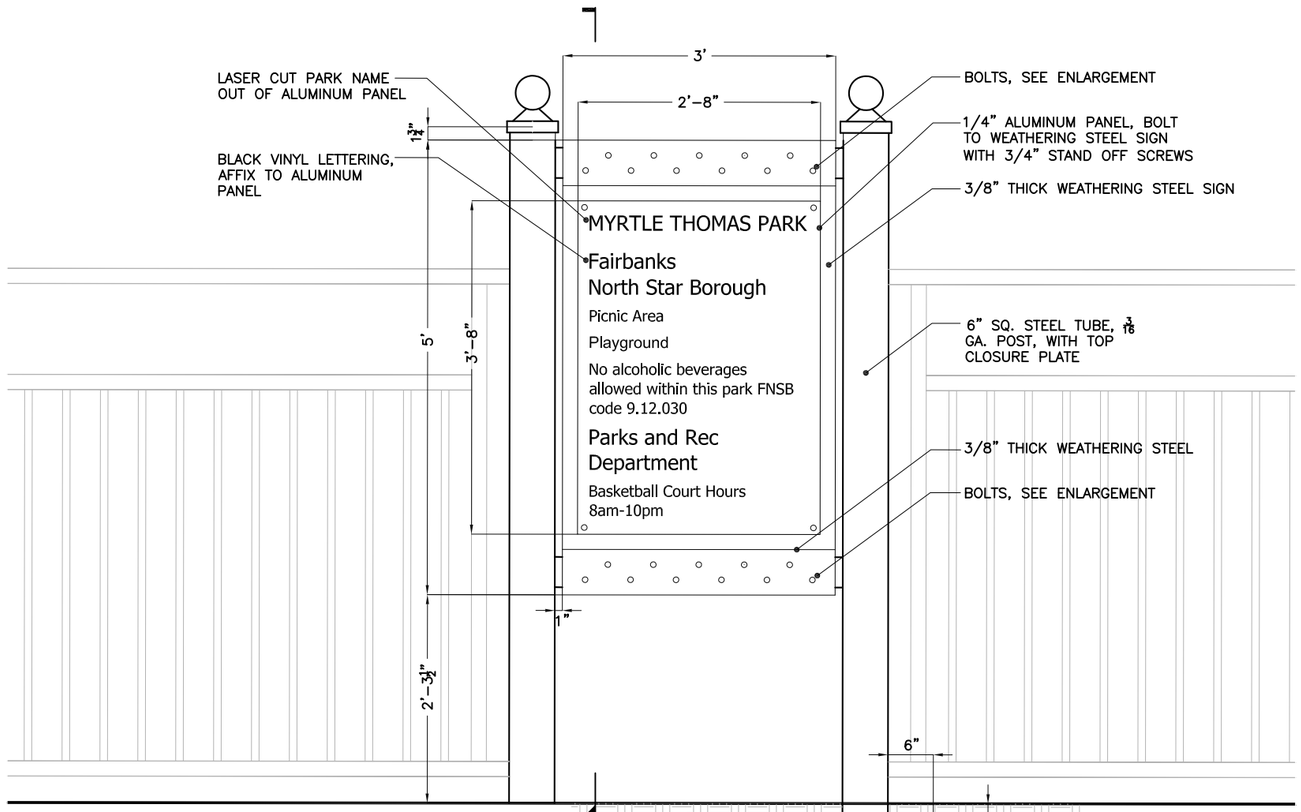
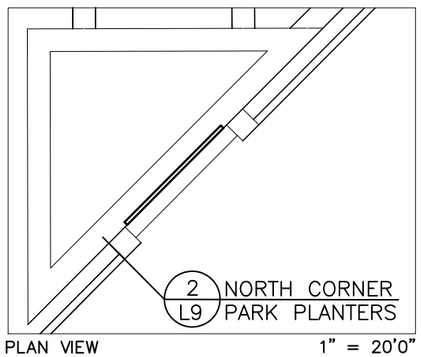
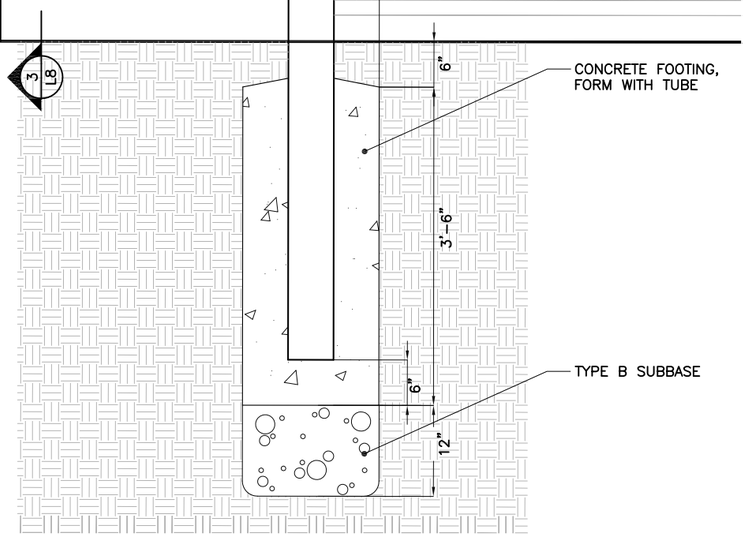


FRONT VIEW

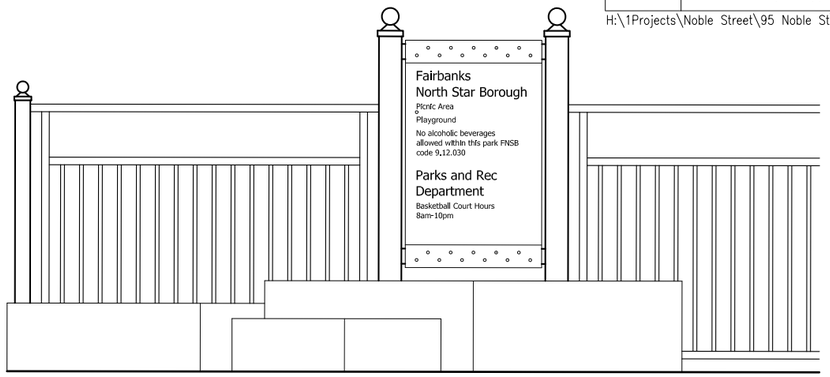


PLAN VIEW 1" = 20'0"



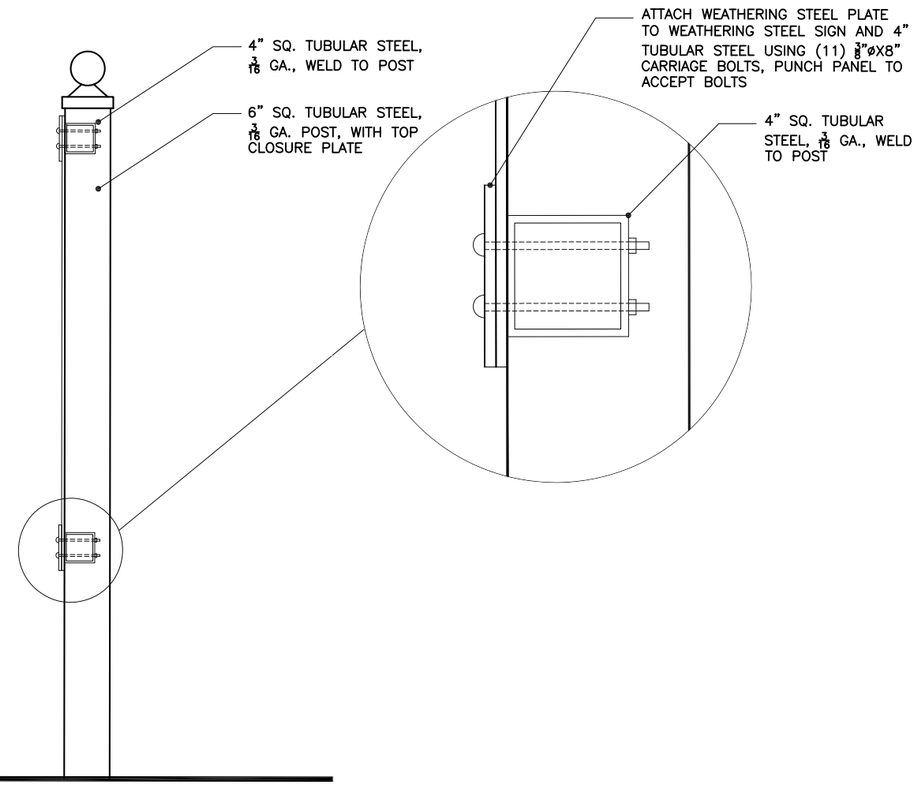
1 L8 MINOR PARK SIGN

SCALE: NTS



2 L8 MINOR PARK SIGN ELEVATION

SCALE: NTS



3 L8 MINOR PARK SIGN CROSS SECTION

SCALE: NTS

LANDSCAPE DETAILS (4 OF 13)

STATE OF ALASKA 49TH
Wm. Dwayne Adams, Jr.
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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	L9	– –

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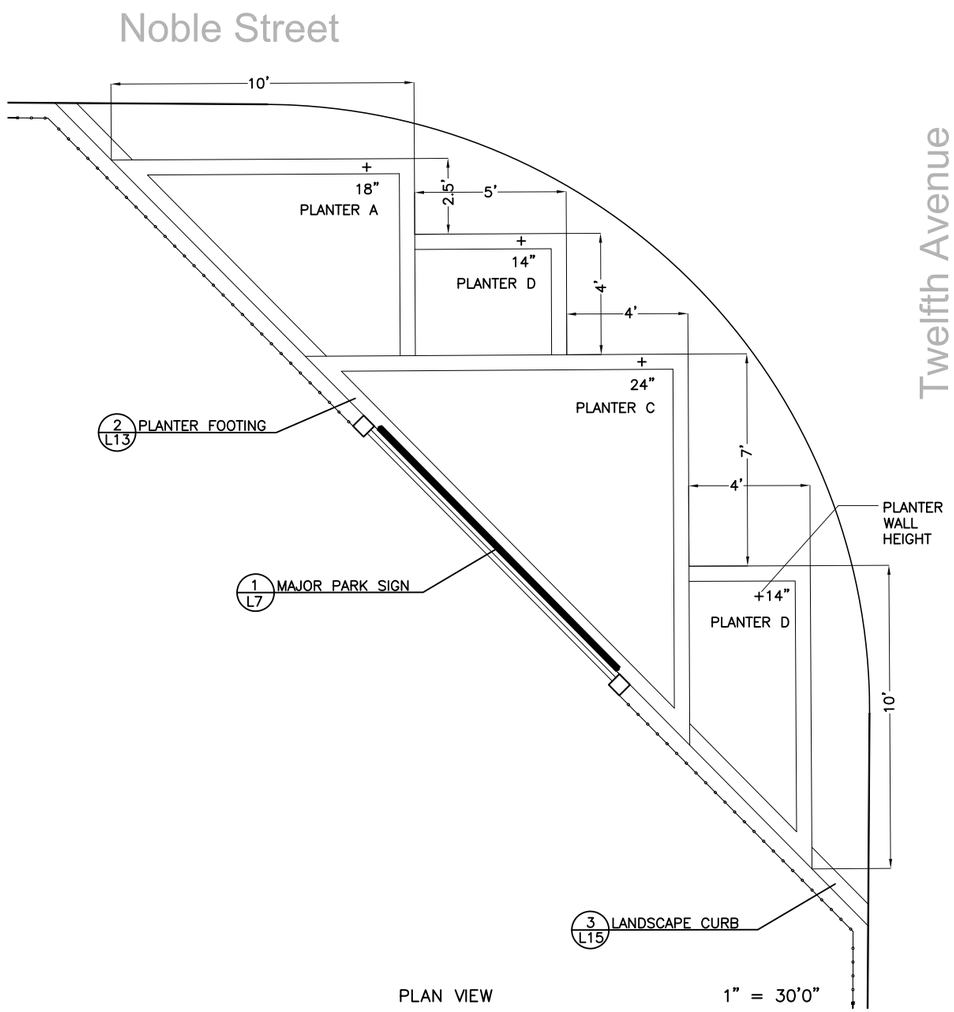
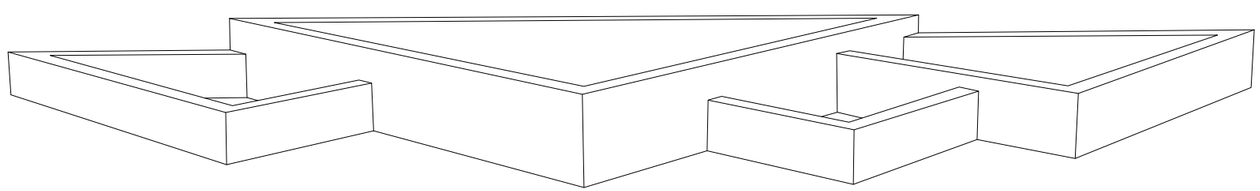


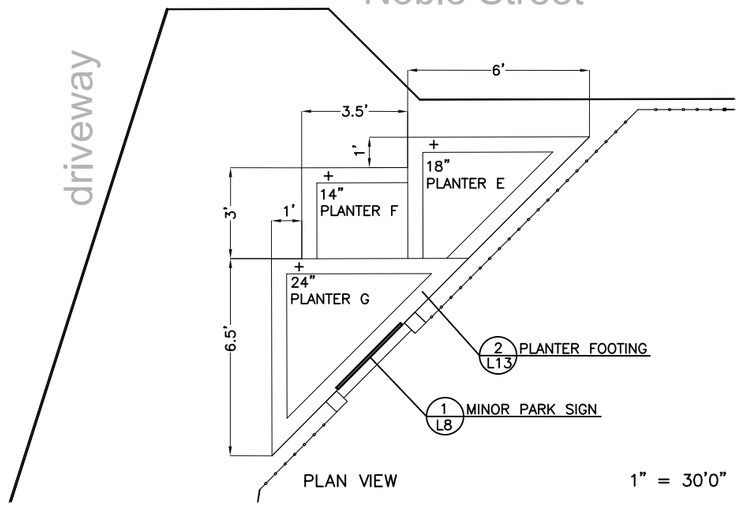
PLAN VIEW 1" = 30'0"



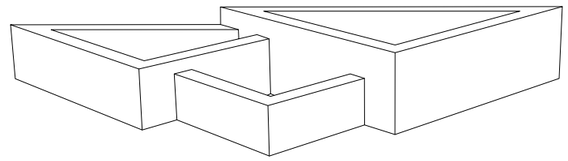
ISOMETRIC VIEW

1 L9 NORTH CORNER PARK PLANTERS (MAJOR PARK SIGN)

SCALE: NTS



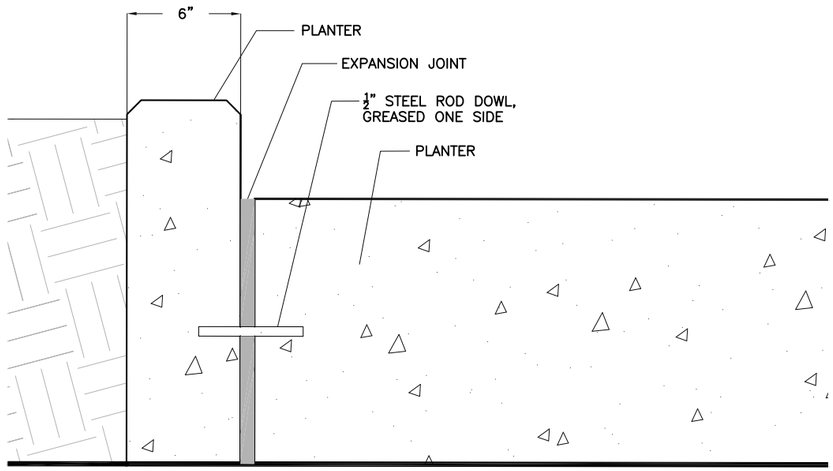
PLAN VIEW 1" = 30'0"



ISOMETRIC VIEW

2 L9 SOUTH CORNER PARK PLANTERS (MINOR PARK SIGN)

SCALE: NTS



3 L9 PLANTER EXPANSION JOINTS

SCALE: NTS

LANDSCAPE DETAILS (5 OF 13)

STATE OF ALASKA 49TH Wm. Dwayne Adams, Jr. No. 10434 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L10	– –

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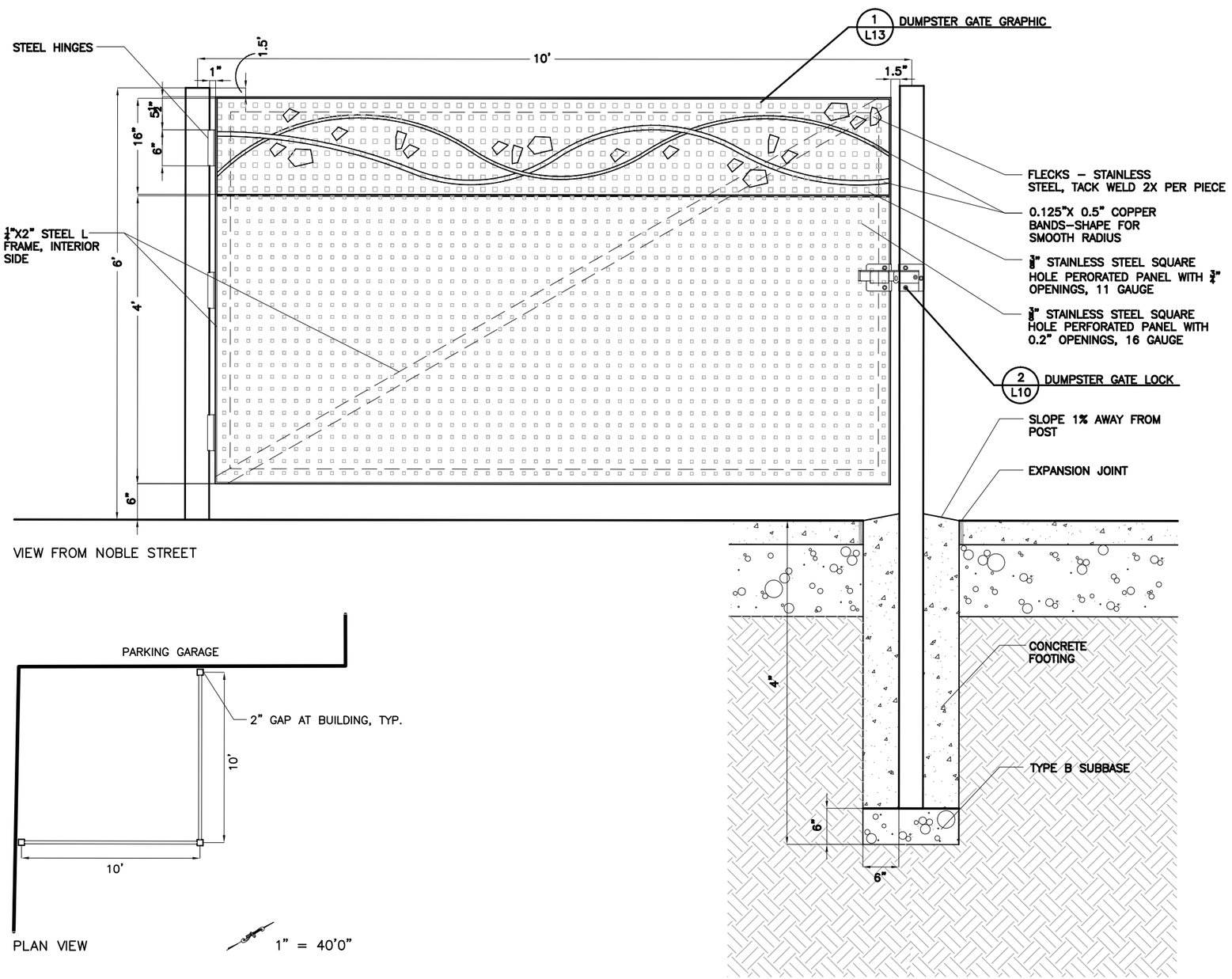
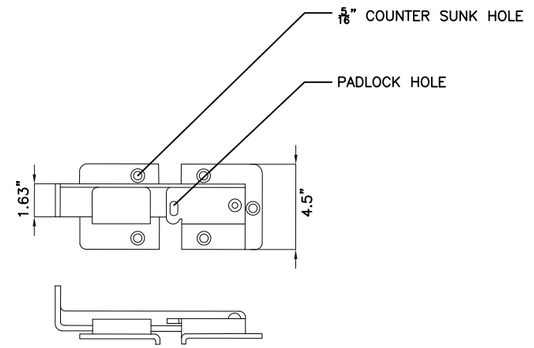


VIEW FROM NOBLE STREET

1 L10 DUMPSTER SCREEN

SCALE: NTS



NOTES:
1. ALLOW ACCESS ONLY FROM OUTSIDE OF GATE.
2. POWDER COATED AND SEALED, COLOR BLACK.
3. LOCKABLE, USING XX LOCK.
4. USE STAINLESS STEEL FLAT HEAD MACHINE SCREWS.
5. DROP ROD RECOMMENDED.

2 L10 GATE LOCK

SCALE: NTS

LANDSCAPE DETAILS (6 OF 13)

STATE OF ALASKA 49TH Wm. Dwayne Adams, Jr. No. 10434 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	L11	– –

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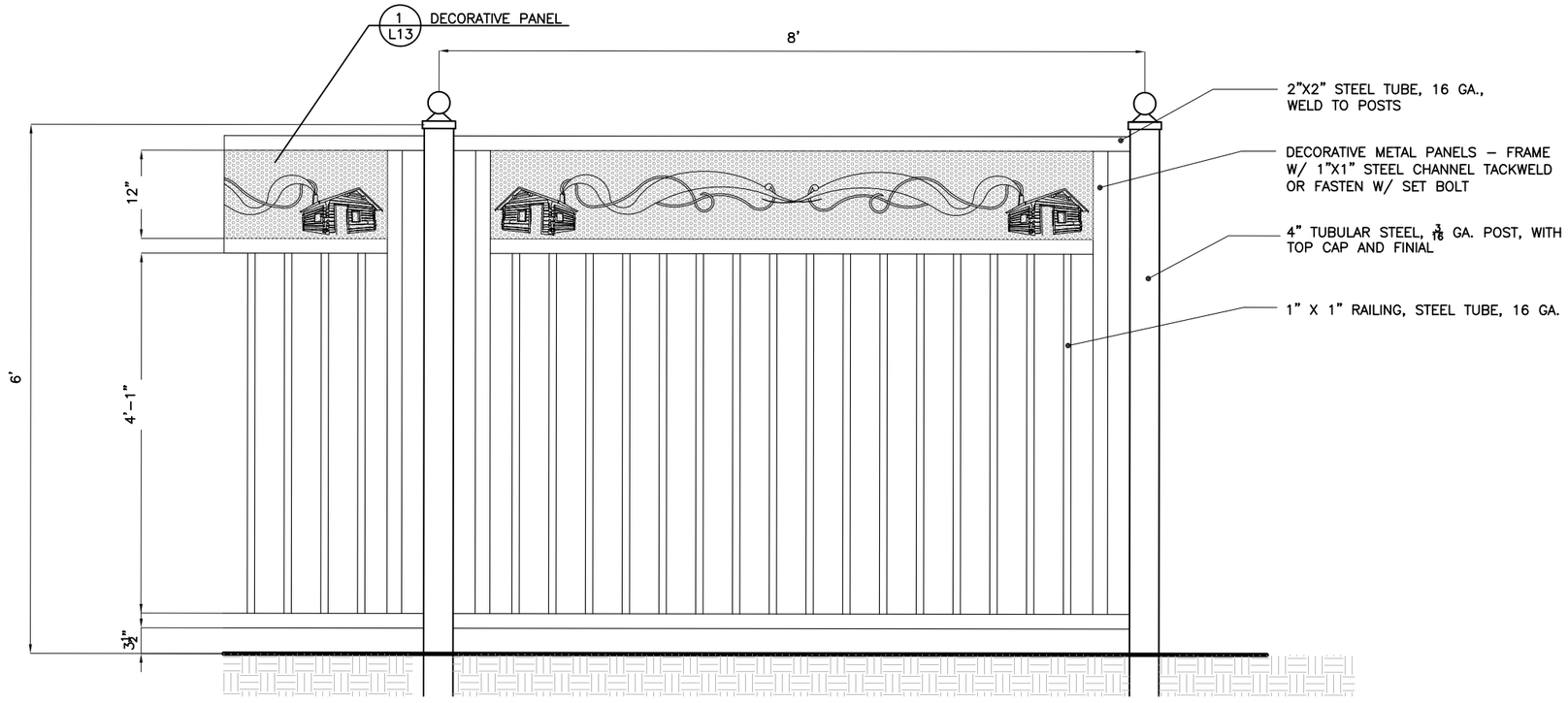
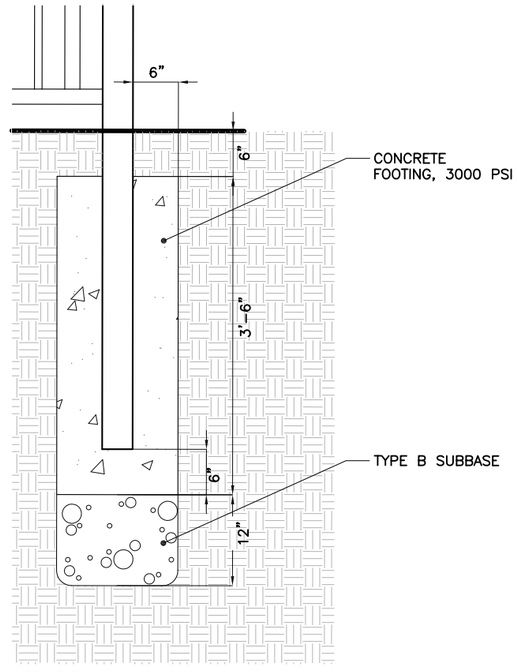
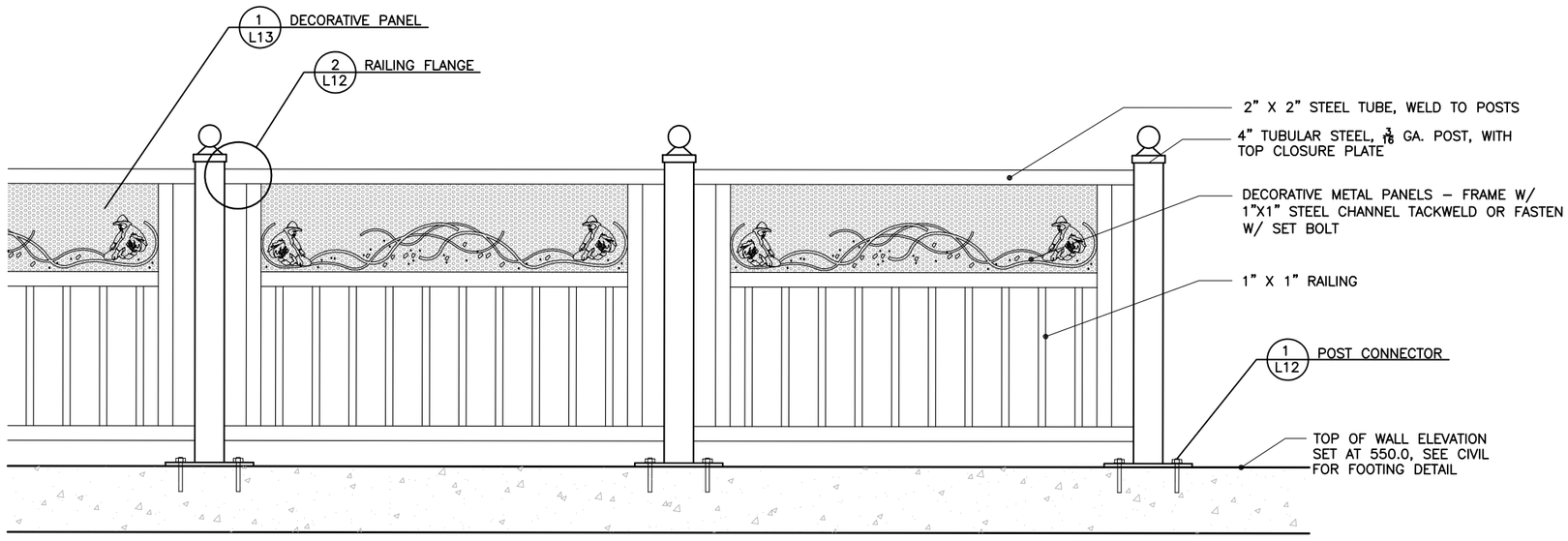


1 L11 MYRTLE THOMAS PARK FENCE

SCALE: NTS



FOOTING



2 L11 1ST/2ND AVENUE ORNAMENTAL FENCE DETAIL

SCALE: NTS

LANDSCAPE DETAILS (7 OF 13)

STATE OF ALASKA 49TH Wm. Dwayne Adams, Jr. No. 10434 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L12	– –

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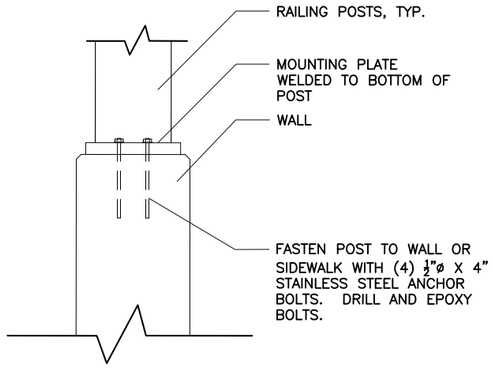
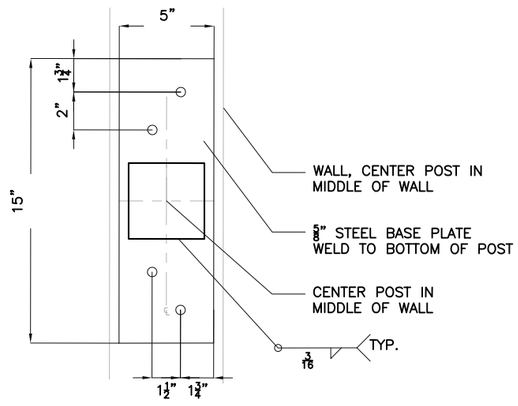
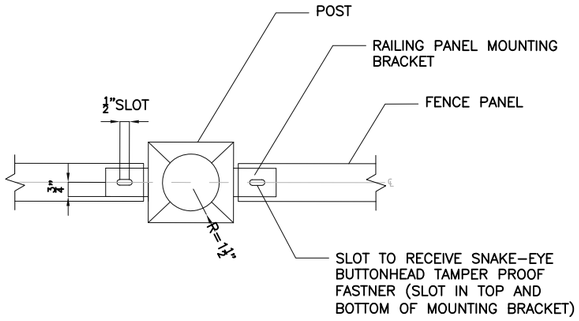
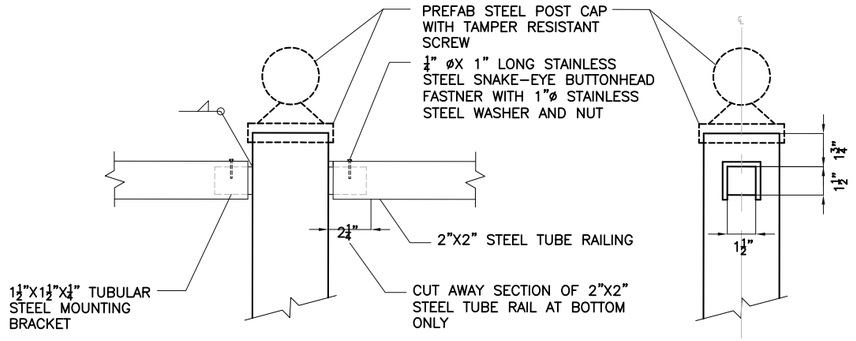




1 L12 1ST/2ND AVE ORNAMENTAL FENCE CONNECTION DETAILS

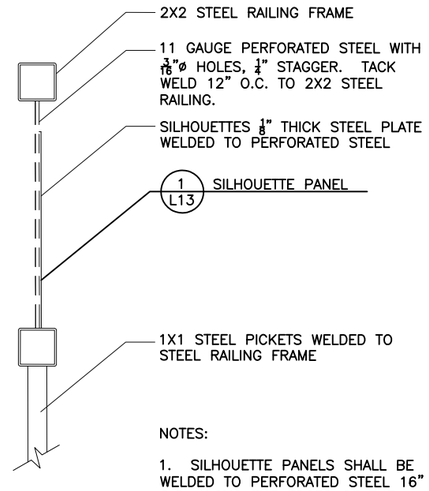
SCALE: NTS





2 L12 RAILING FLANGE

SCALE: NTS



NOTES:

1. SILHOUETTE PANELS SHALL BE WELDED TO PERFORATED STEEL 16" O.C. ALONG THE EDGES OF THE SILHOUETTE.

2. ALL RAILING PANEL COMPONENTS ARE TO BE POWDERCOATED AND SEALED. COLOR: BLACK

3 L12 STEEL PANELS CONNECTION

SCALE: NTS

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ALASKA	STP-000S(413)/61725	2015	L13	– –

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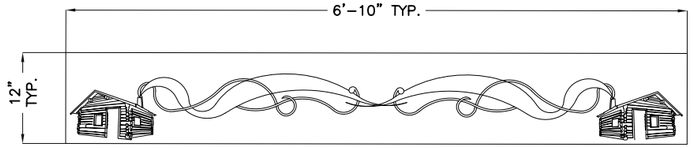
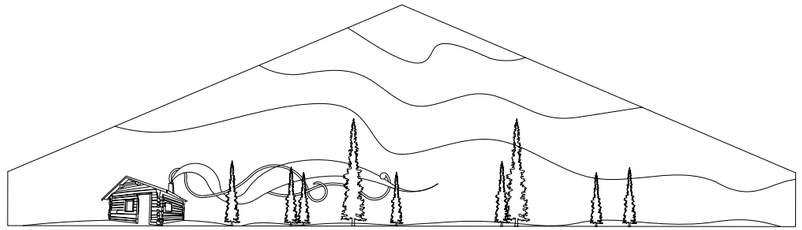
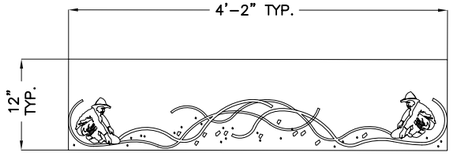


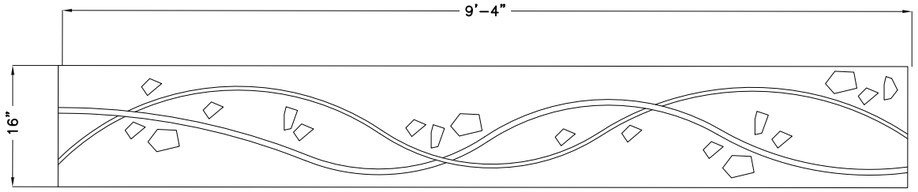
MYRTLE THOMAS PARK FENCE PANEL



MYRTLE THOMAS PARK GATEWAY PANEL



1ST/2ND AVENUE FENCE PANEL

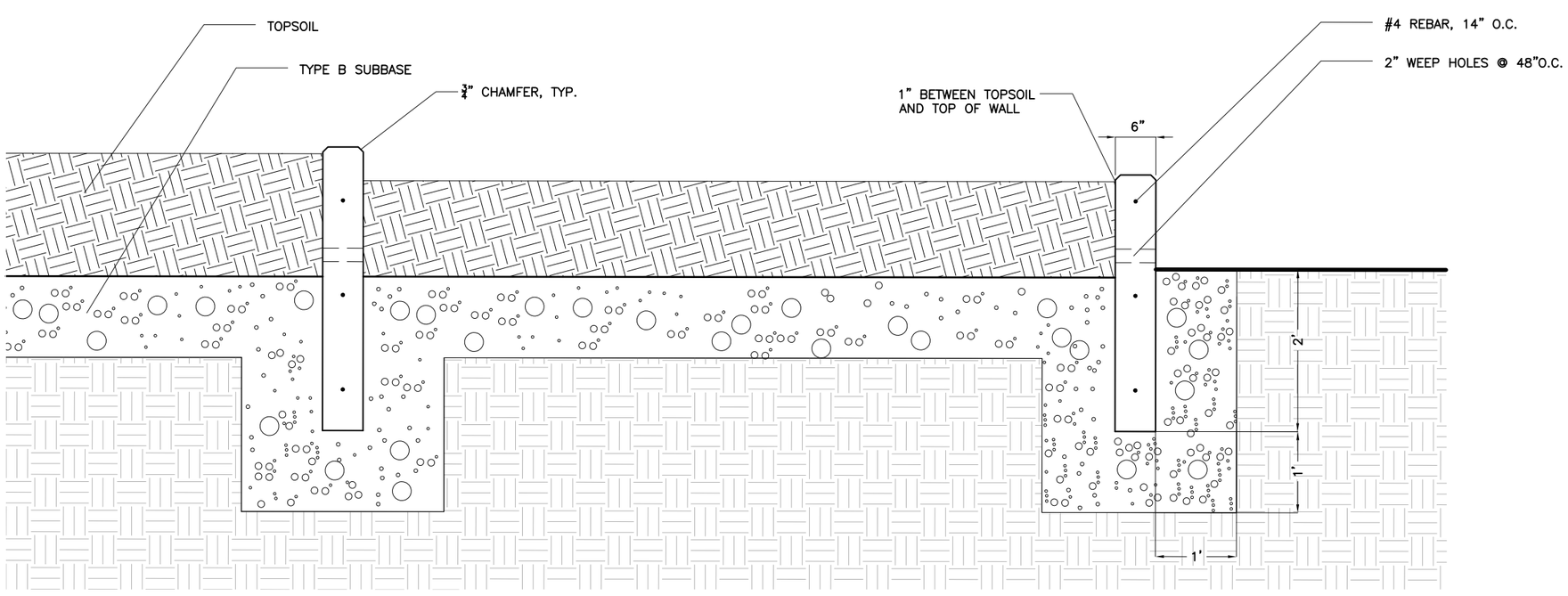


DUMPSTER SCREEN PANEL

NOTE: CAD TEMPLATES TO BE PROVIDED BY LANDSCAPE ARCHITECT

1 / L13 FENCE PANELS

SCALE: NTS



2 / L13 CONCRETE PLANTER FOOTINGS

SCALE: NTS

LANDSCAPE DETAILS (9 OF 13)

STATE OF ALASKA 49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L14	– –

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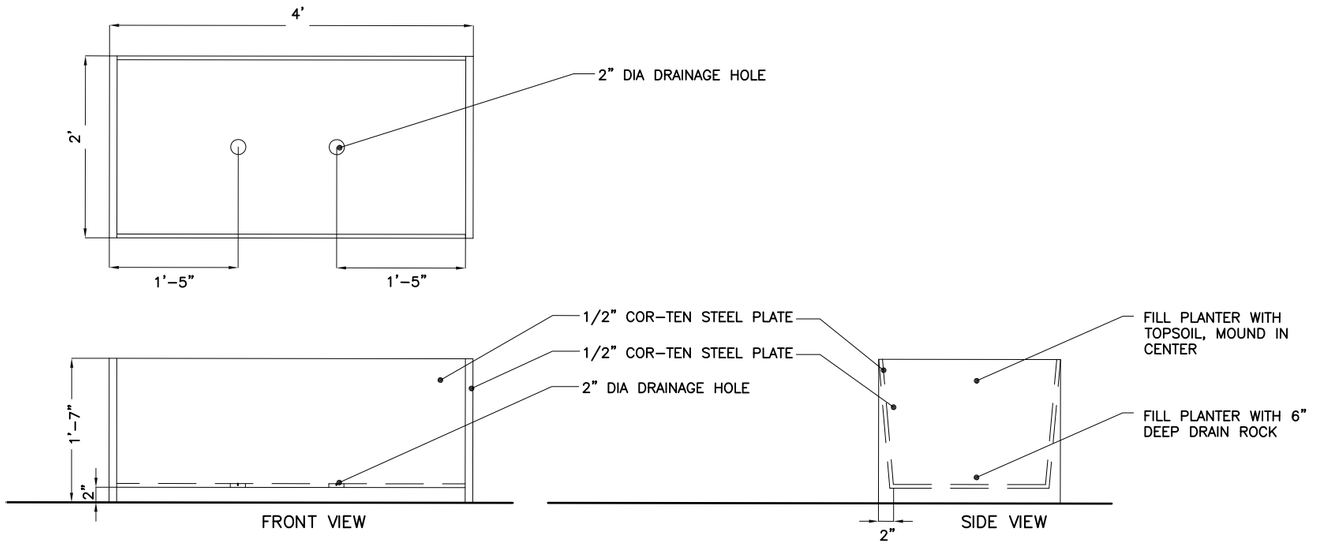
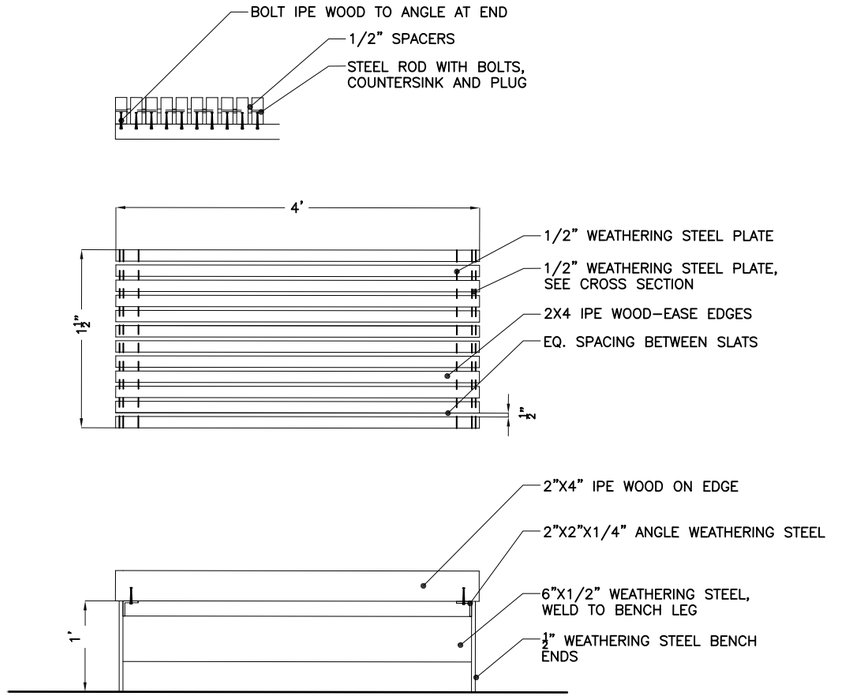


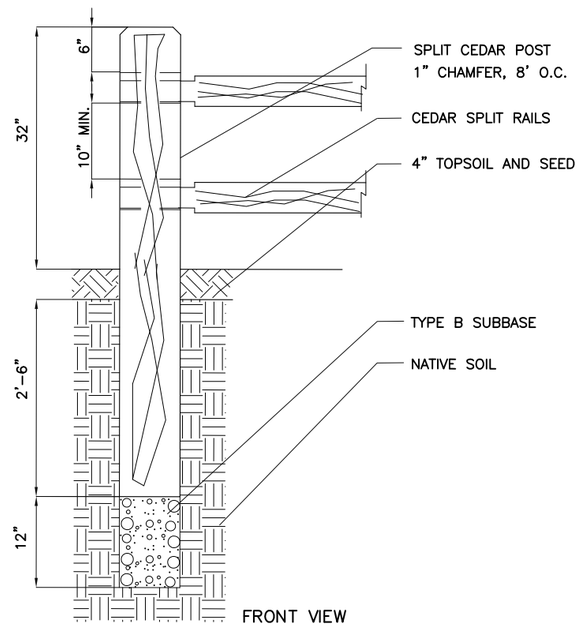
1 / L14 METAL PLANTER DETAIL

SCALE: NTS



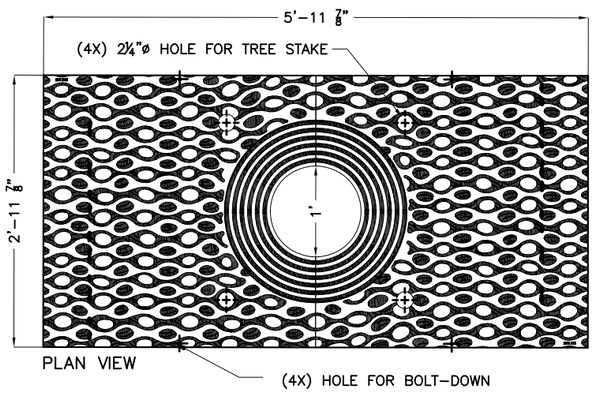
2 / L14 BENCH DETAIL

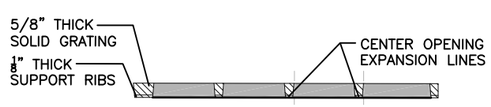
SCALE: NTS



3 / L14 SPLIT RAIL FENCE DETAIL

SCALE: NTS





GRATE SECTION

4 / L14 TREE GRATE DETAIL

SCALE: NTS

LANDSCAPE DETAILS (10 OF 13)

STATE OF ALASKA 49TH
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ALASKA	STP-000S(413)/61725	2015	L15	– –

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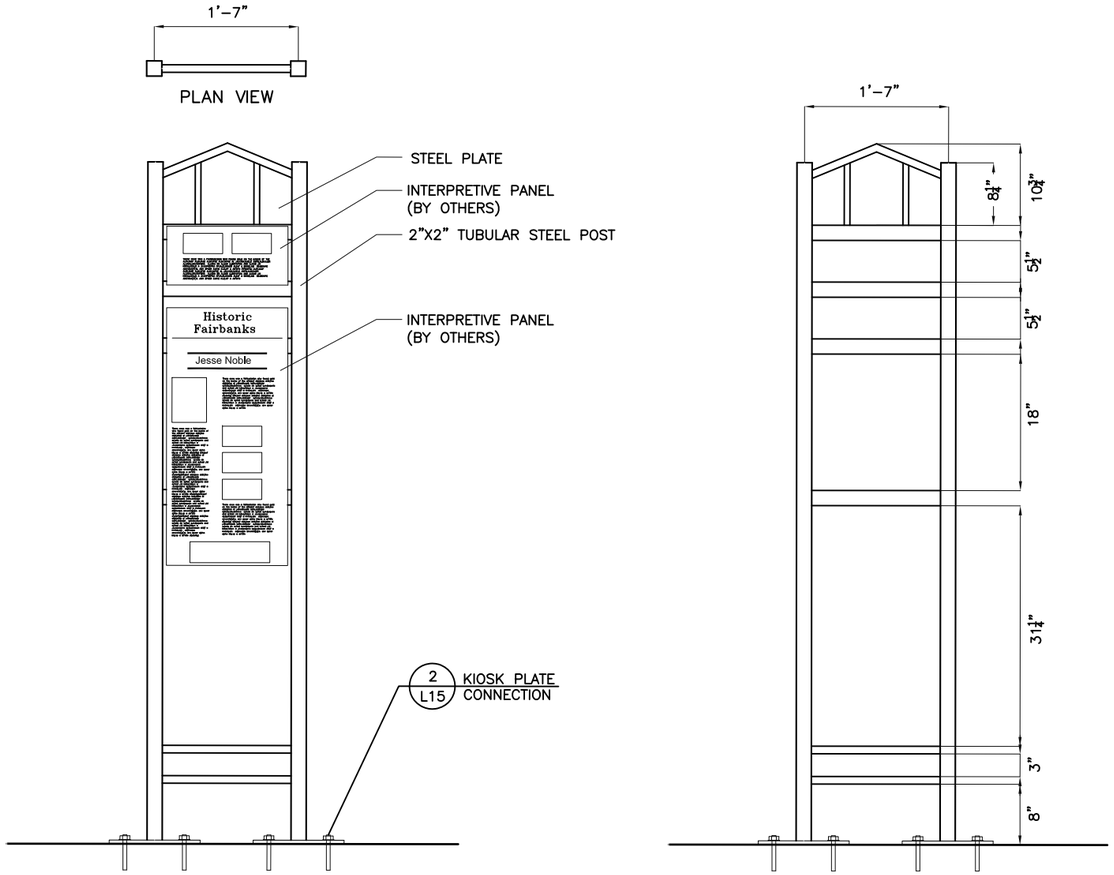
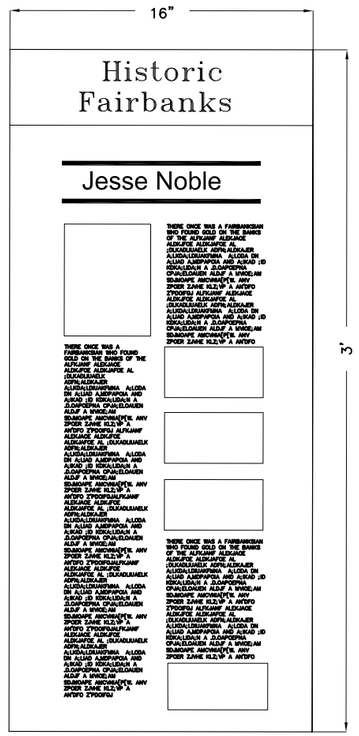
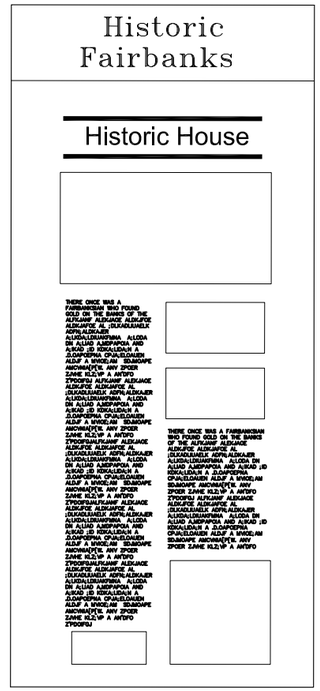


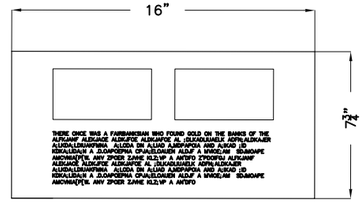
1 L15 KIOSK DETAIL



NOBLE INTERPRETIVE PANEL (BY OTHERS)

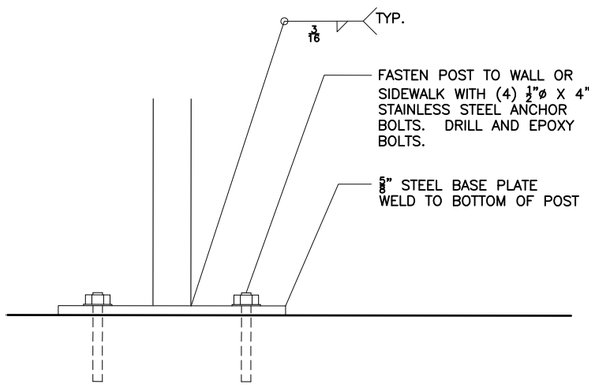


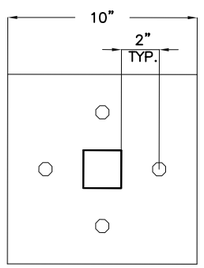
HISTORIC HOUSE INTERPRETIVE PANEL (BY OTHERS)



TOP INTERPRETIVE PANEL (BY OTHERS)

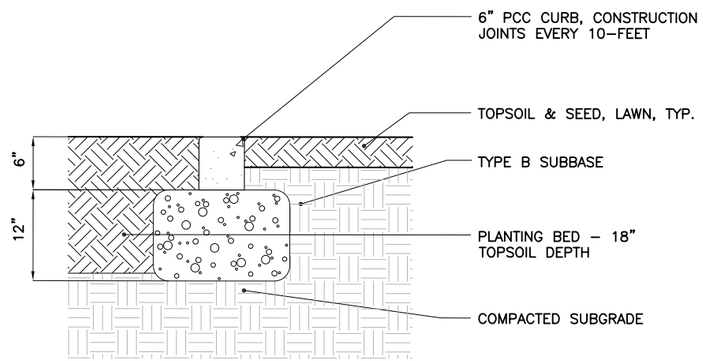
SCALE: NTS





2 L15 KIOSK CONNECTION PLATE

SCALE: NTS



3 L15 LANDSCAPE CURB DETAIL

SCALE: NTS

LANDSCAPE DETAILS (11 OF 13)

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Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L16	– –

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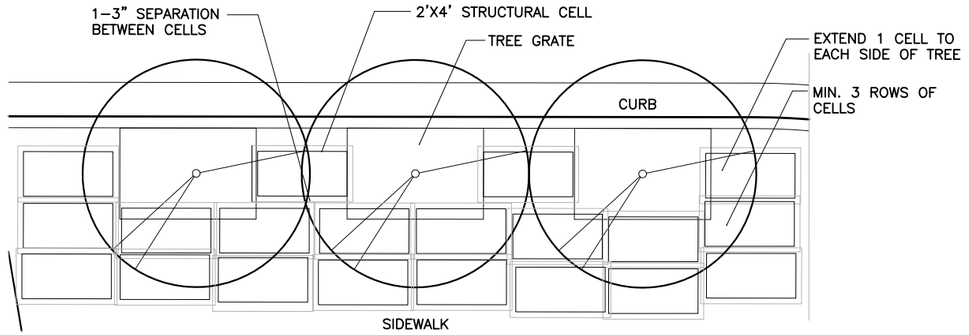
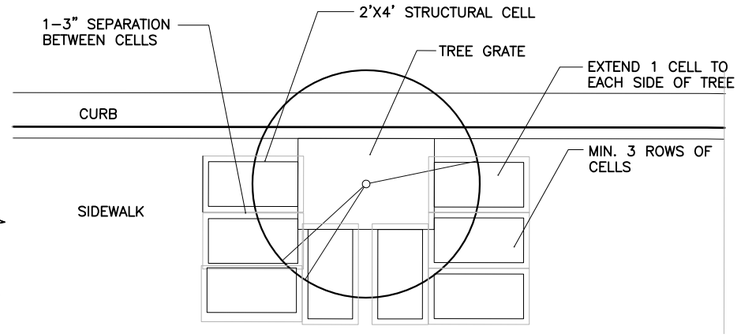
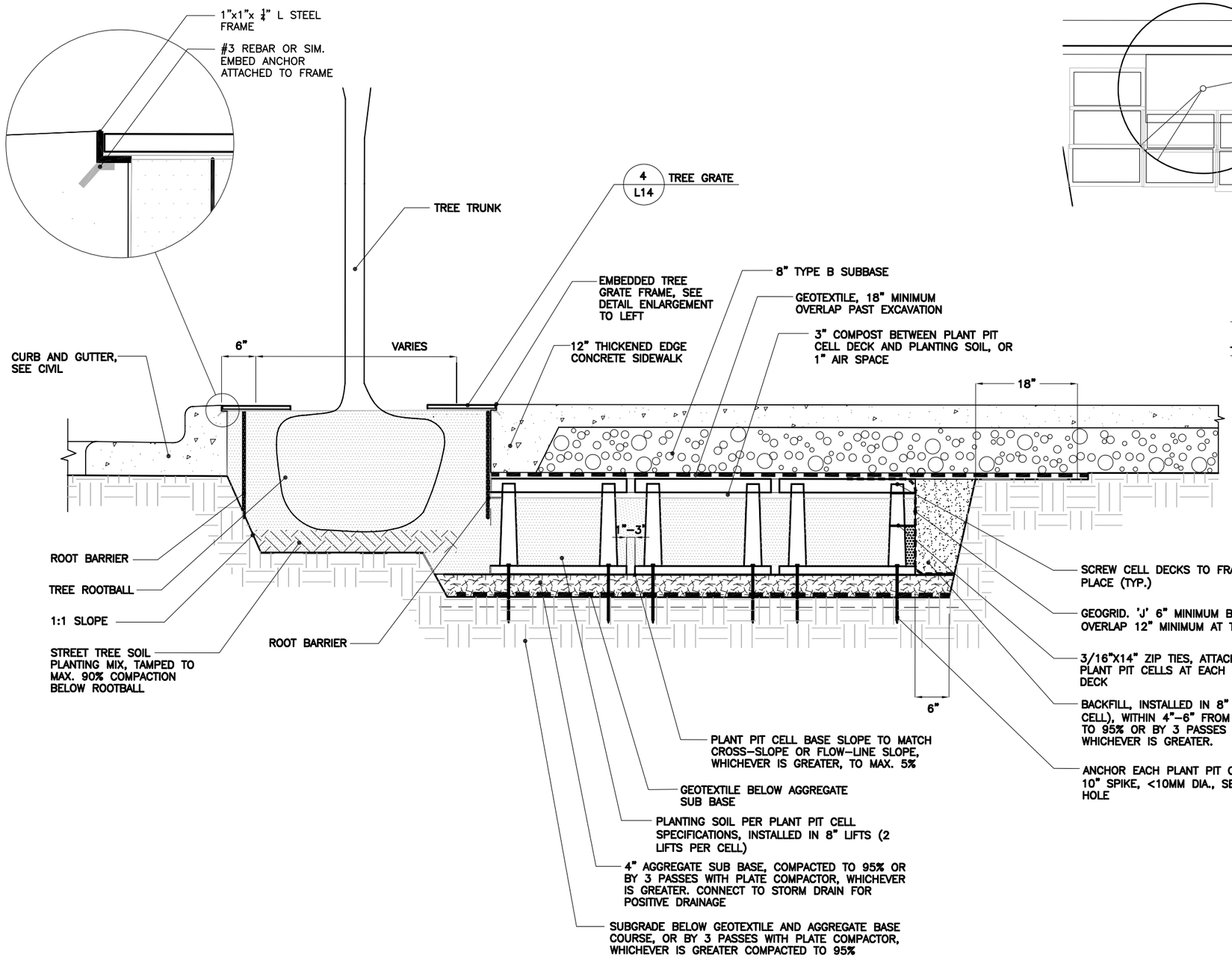


PLAN VIEW–TYPICAL LAYOUT (3 TREE GROUP) SCALE 1" = 40'0"



PLAN VIEW–TYPICAL LAYOUT (SINGLE TREE) SCALE 1" = 40'0"



1/L16 STREET TREE – PLANT PIT CELL DETAIL

SCALE: NTS

LANDSCAPE DETAILS (12 OF 13)

STATE OF ALASKA 49TH Wm. Dwayne Adams, Jr. No. 10434 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L17	– –

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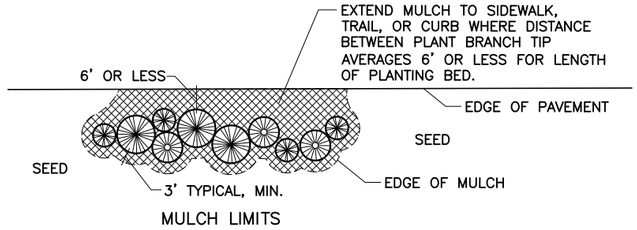
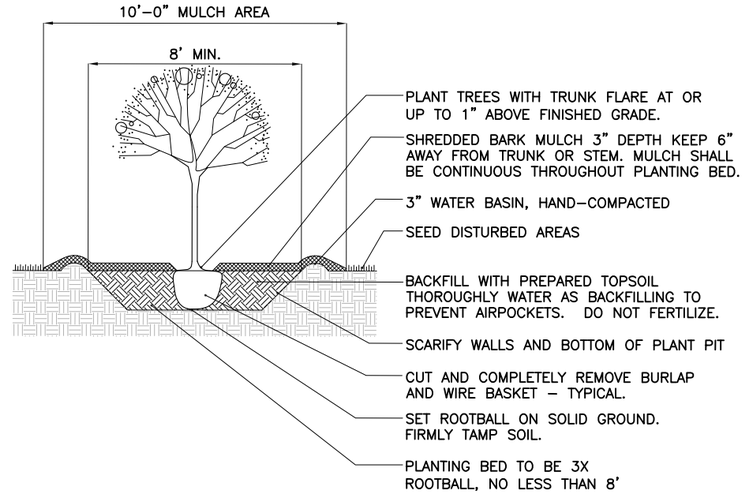
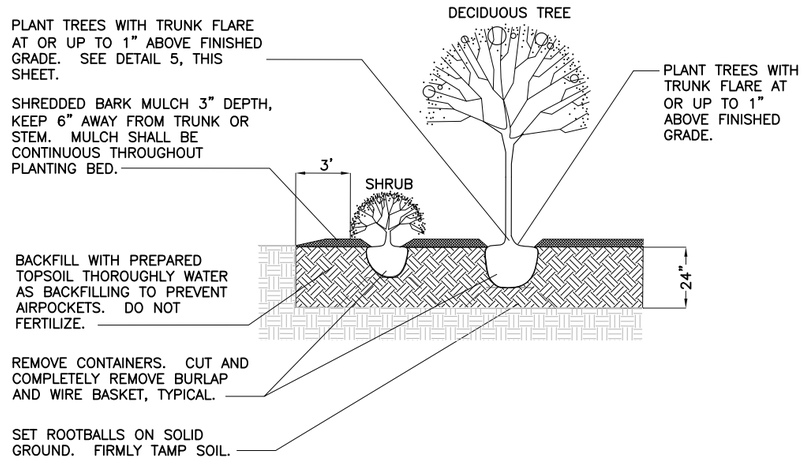


MULCH LIMITS





1 / L17 PLANTING BED DETAIL

SCALE: NTS

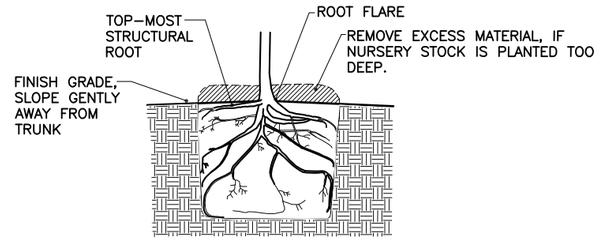
NOTES:
1. PREPARE PLANTING BED AS SHOWN ON PLANS:
   A. EXCAVATE AND REMOVE SOIL
   B. TILL SUBGRADE
   C. VERIFY DRAINAGE IS ADEQUATE
   D. BACKFILL WITH TOPSOIL
   E. PLANT TREES AND SHRUBS AFTER LANDSCAPE ARCHITECT HAS APPROVED STAKED LOCATIONS

2. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO EXCAVATION

3. SEVERAL AREAS ON PLANS REQUIRE LARGE AREAS OF MULCH. CONTRACTOR TO PROVIDE MULCH BETWEEN PLANTINGS AND BUILDING, UP TO PROPERTY LINE, EDGING OR EXISTING VEGETATION, WHERE PLANTING BEDS ARE ADJACENT TO EXISTING VEGETATION.

2 / L17 SINGLE TREE PLANTING

SCALE: NTS



3 / L17 PLANTING DEPTH DETAIL

SCALE: NTS

LANDSCAPE DETAILS (13 OF 13)

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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

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ALASKA	STP-000S(413)/61725	2015	L18	– –

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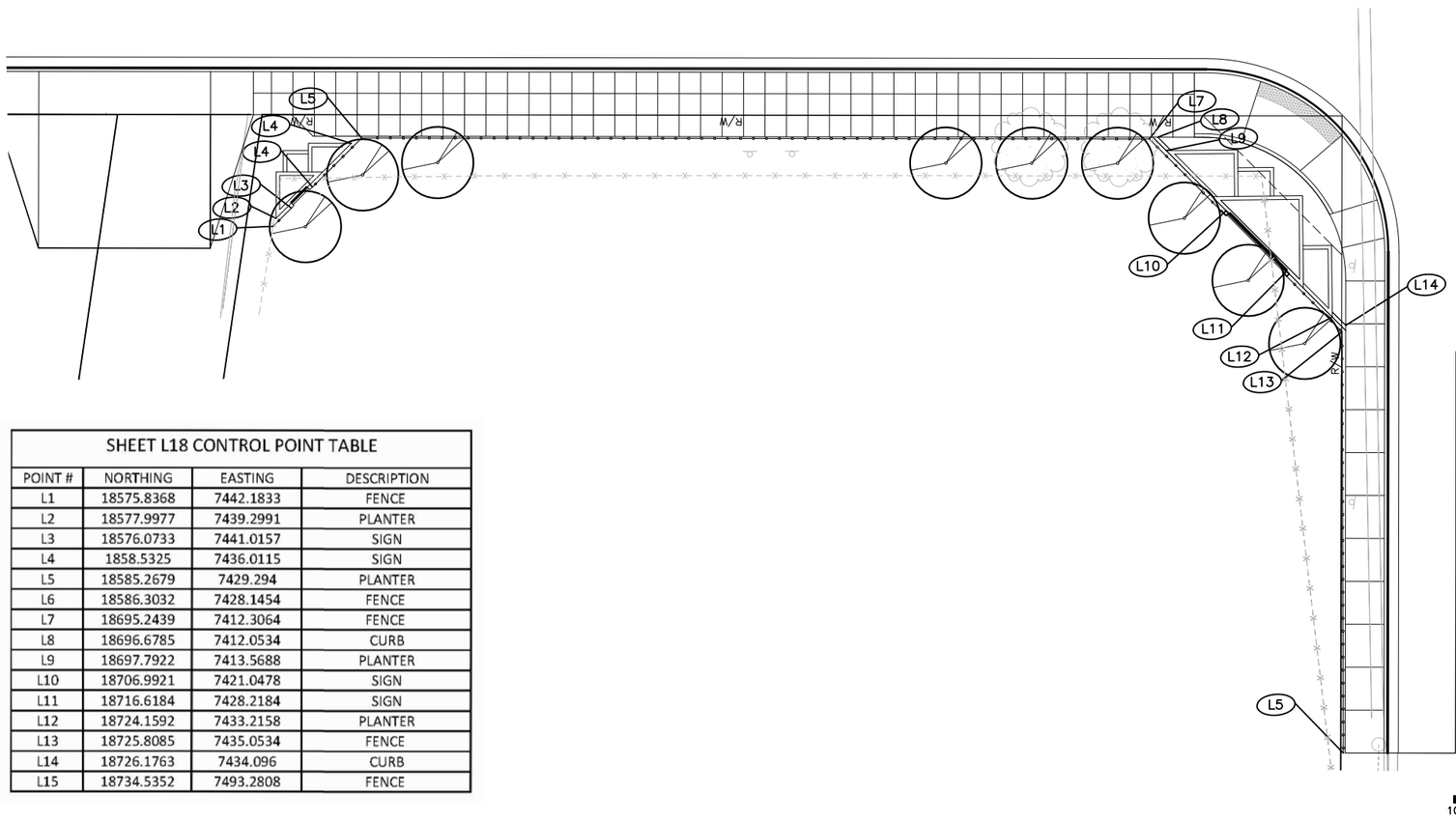

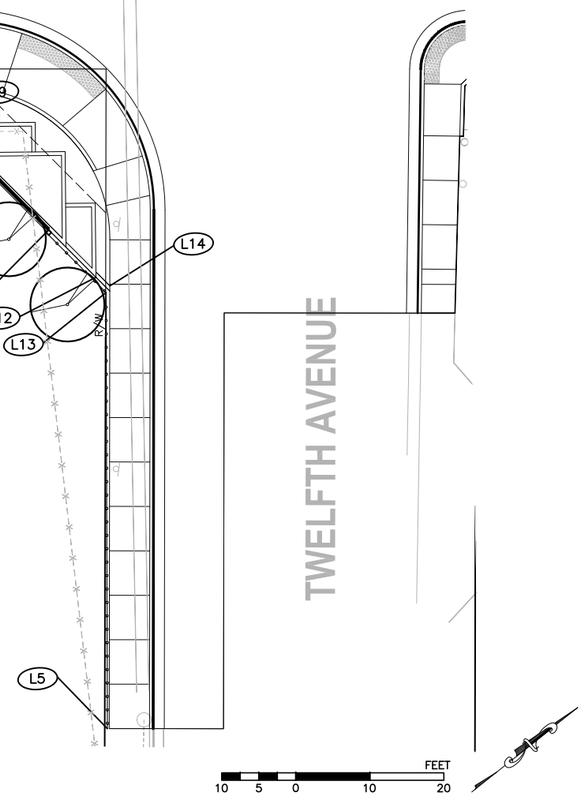

SHEET L18 CONTROL POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
L1	18575.8368	7442.1833	FENCE
L2	18577.9977	7439.2991	PLANTER
L3	18576.0733	7441.0157	SIGN
L4	1858.5325	7436.0115	SIGN
L5	18585.2679	7429.294	PLANTER
L6	18586.3032	7428.1454	FENCE
L7	18695.2439	7412.3064	FENCE
L8	18696.6785	7412.0534	CURB
L9	18697.7922	7413.5688	PLANTER
L10	18706.9921	7421.0478	SIGN
L11	18716.6184	7428.2184	SIGN
L12	18724.1592	7433.2158	PLANTER
L13	18725.8085	7435.0534	FENCE
L14	18726.1763	7434.096	CURB
L15	18734.5352	7493.2808	FENCE

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LANDSCAPE CONTROL POINTS

STATE OF ALASKA
49TH
Wm. Dwayne Adams, Jr.
No. 10434
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	M1	– –

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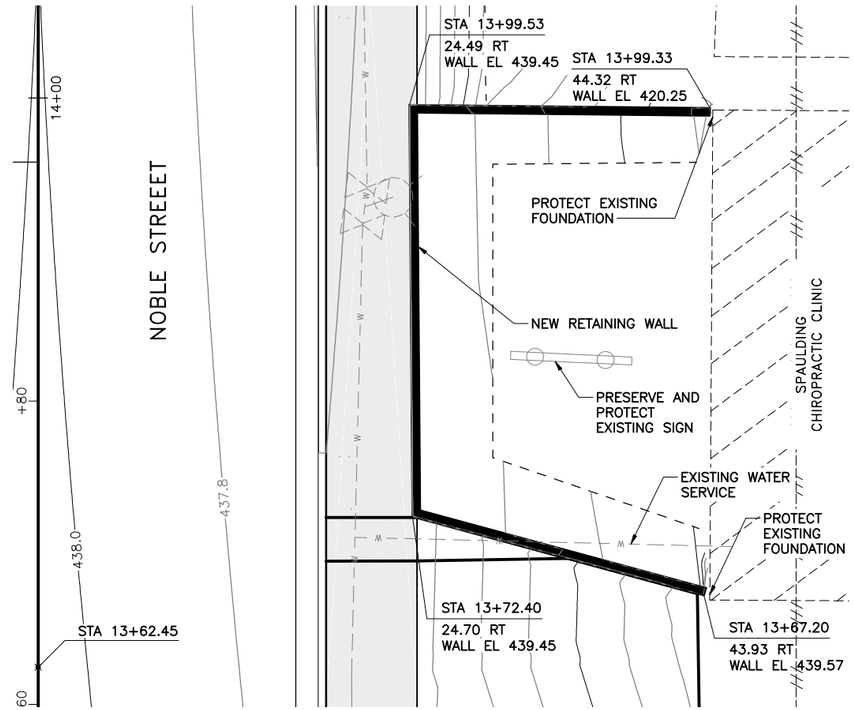
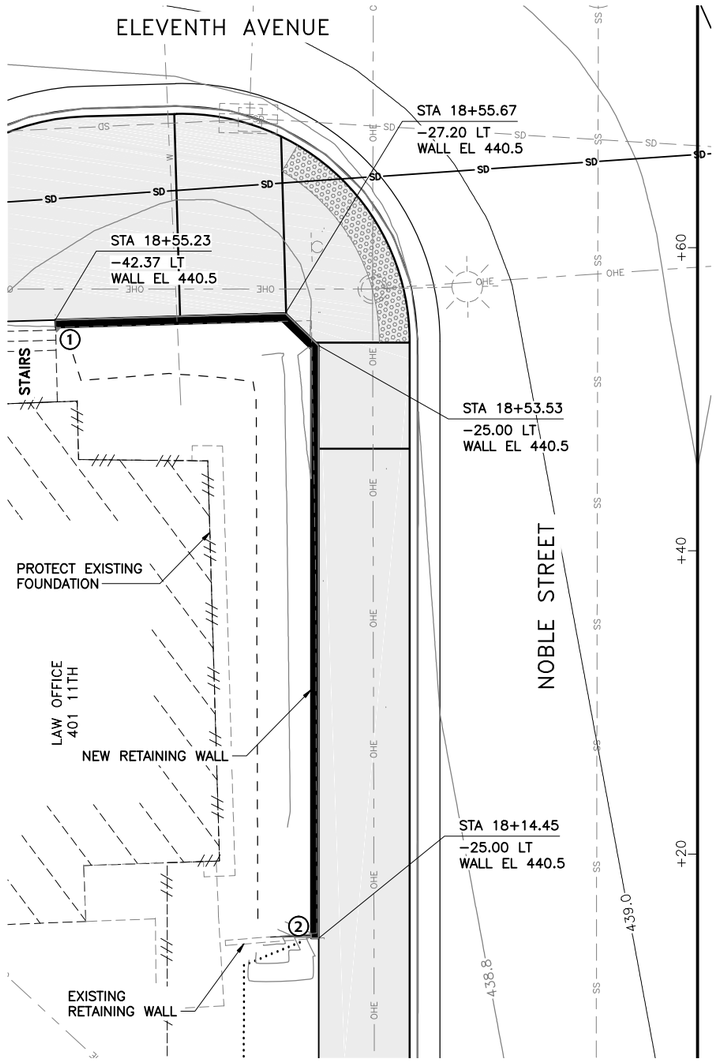


SPAULDING CHIROPRACTIC RETAINING WALL

FEET
5 2.5 0 5 10

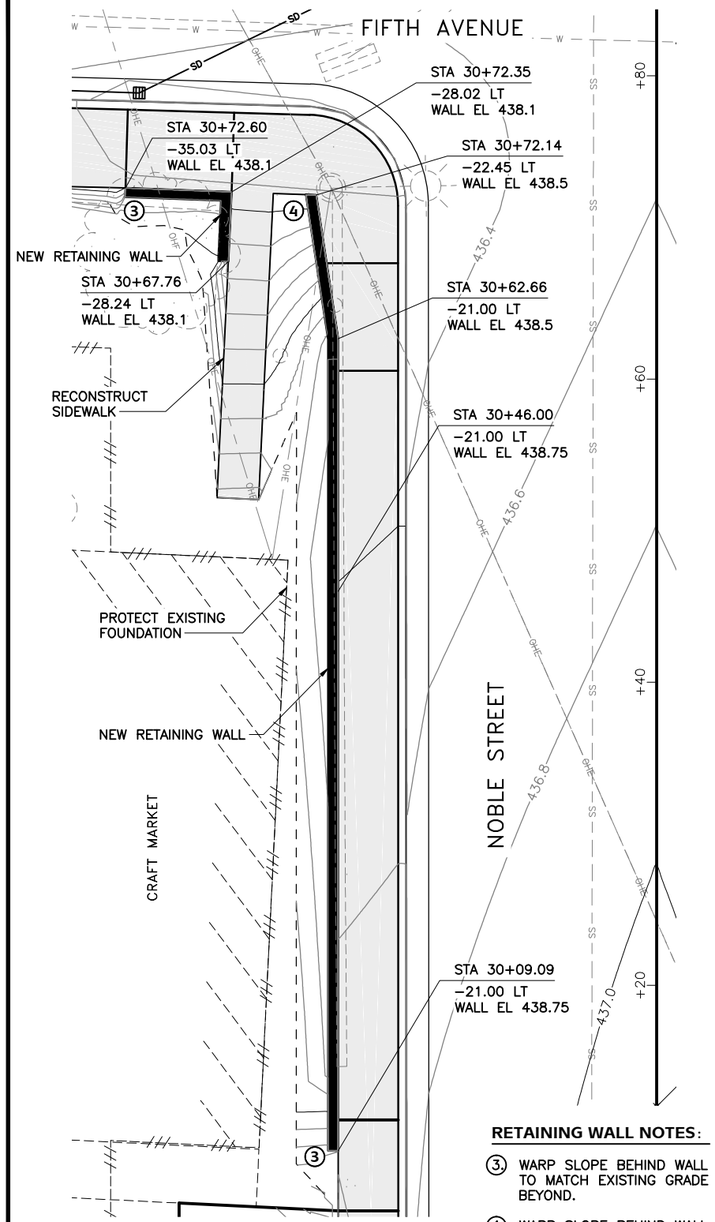
RETAINING WALL NOTES:

1. WARP SLOPE BEHIND WALL TO MATCH STAIRS.
2. SECURE NEW WALK TO EXISTING CONCRETE WALL. EMBED LONGITUDINAL REBAR 6". EPOXY WITH SIMPSON SET HIGH STRENGTH EPOXY OR HIHI HV 150 MAX OR APPROVED EQUAL.



LAW OFFICE RETAINING WALL

FEET
5 2.5 0 5 10



RETAINING WALL NOTES:

3. WARP SLOPE BEHIND WALL TO MATCH EXISTING GRADE BEYOND.
4. WARP SLOPE BEHIND WALL TO MATCH NEW SIDEWALK.

CRAFT MARKET RETAINING WALL

FEET
5 2.5 0 5 10

RETAINING WALL PLANS

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	M2	– –

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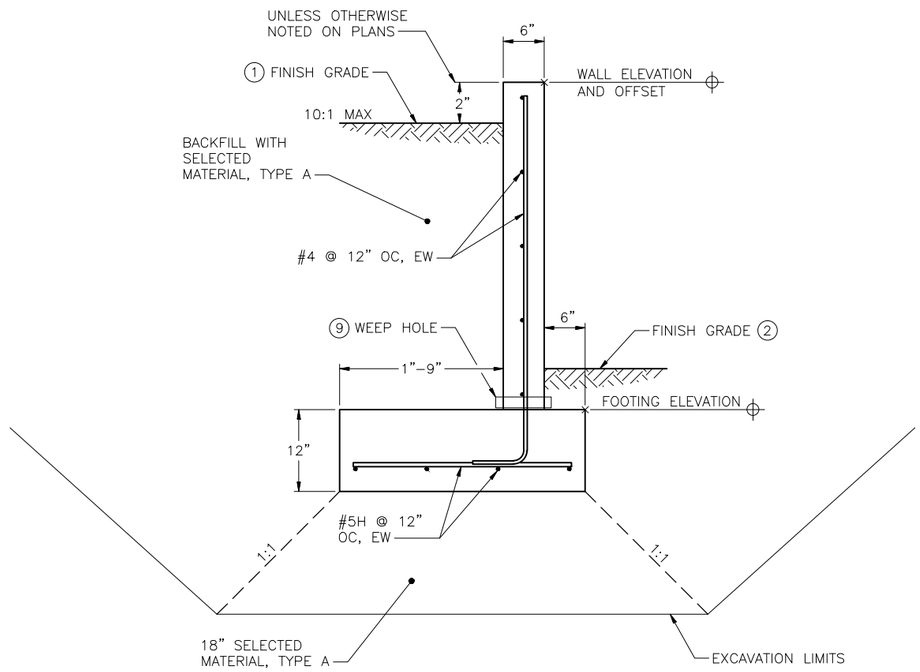
RETAINING WALL NOTES:

1. SLOPE VARIES MATCH EXISTING MATERIAL. SEE TYPICAL SECTION FOR MATERIAL TYPE LOCATIONS.
2. SEE TYPICAL SECTIONS FOR SIDEWALK ELEVATIONS.
3. ALL CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
4. ALL CONCRETE 4500 psi
5. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR-EXTRANING ADMIXTURE.
6. ALL REINFORCING BARS, EXCEPT AS NOTED, SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60.
7. MINIMUM CONCRETE COVER SHALL BE:
   - A. 3" FOR CONCRETE CAST AGAINST THE EARTH
   - B. 1½" FOR BARS EXPOSED TO WEATHER AND WALLS
   - C. ¾" FOR SLABS
8. PLACE 1.5" CHAMFER CONTROL JOINT @ 10'-0" O.C. ALONG THE LENGTH OF WALL. CUT EVERY OTHER HORIZONTAL BAR.
9. 1"ø WEEP HOLES TO BE PLACED AT 10'-0" O.C.



RETAINING WALL SECTION
NTS

LAP LENGTH TABLE		
BAR SIZE	L_B(IN)	L_T(IN)
4	25	32
5	31	40

REBAR NOTES:

1. L_B = LAP LENGTH OF VERTICAL BARS AND HORIZONTAL BARS WITH LESS THANK 12 INCHES OF FRESH CONCRETE BELOW.
2. L_T = LAP LENGTH OF HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE BELOW.

FOOTING ELEVATION	
RETAINING WALL	ELEVATION
SPAULDING CHIROPRACTIC	436.60
LAW OFFICE	437.75
CRAFT MARKET	435.30

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

RETAINING WALL DETAILS

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	P1	– –

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SITE INFORMATION:

1. SITE FUNCTION: ROAD
2. 2-YEAR, 24-HOUR RAINFALL EVENT: 1.09 INCHES (SOURCE: http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_ak.html) FAIRBANKS, AK)
3. AVERAGE ANNUAL PRECIPITATION: 10.53 INCHES RAINFALL (SOURCE: WESTERN REGIONAL CLIMATE CENTER) FOR FAIRBANKS WSO AIRPORT.
4. STAGING AND STOCKPILE AREAS: CONTRACTOR MUST SEEK LOCATIONS FOR STOCKPILING MATERIAL, AND STAGING AND STORAGE OF EQUIPMENT. STAGING AREAS MUST COMPLY WITH CGP, SWPPP, SECTION 641, AND ALL PERMITS.
5. PROJECT AREAS ARE LISTED BELOW (MATERIAL SITES NOT INCLUDED):

PROJECT INFORMATION TABLE	
PROJECT AREA (ACRE)	6.47
DISTURBED AREA (ACRE)	5.75
USACE SECTION 404 PERMIT AREA (ACRE)	NA
CONSTRUCTION GENERAL PERMIT AREA (ACRE)	6.47
PRE-CONSTRUCTION IMPERVIOUS AREA (ACRE)	84
POST-CONSTRUCTION IMPERVIOUS AREA (ACRE)	84
PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.70
POST-CONSTRUCTION RUNOFF COEFFICIENT	0.70

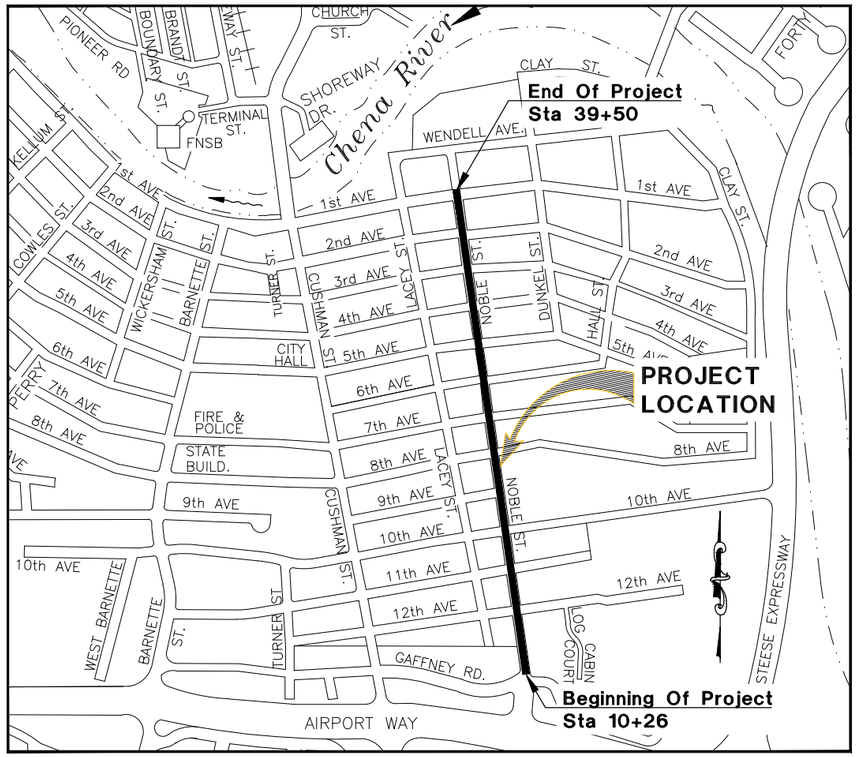
6. LANDSCAPE TOPOGRAPHY: VERY FLAT HIGHLY URBANIZED.
7. DRAINAGE PATTERNS: WATER FLOWS NORTH BY NORTHWEST ACROSS THE PROJECT AREA.
8. APPROXIMATE GROWING SEASON: MAY 3 THROUGH OCTOBER 3 (SOURCE: USACE WETLANDS DELINEATION MANUAL: ALASKA REGION (VERSION 2)).
9. EXISTING VEGETATION: LIMITED LANDSCAPED GRASS, TREES AND SHRUBS.
10. HISTORIC SITE CONTAMINATION: CONTAMINATED SITES HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA. REFER TO SECTION 802.

ENVIRONMENTAL INFORMATION:

1. RECEIVING WATERS: CHENA RIVER LOCATED APPROXIMATELY 500 FT NORTHWEST OF THE PROJECT.
2. IMPAIRED WATER BODIES: CHENA RIVER
3. TOTAL MAXIMUM DAILY LOAD (TMDL): NONE
4. STORM SEWER/DRAINAGE SYSTEMS: FAIRBANKS MS4
5. THREATENED AND ENDANGERED SPECIES: NONE
6. HISTORICAL & CULTURAL RESOURCE PRESENCE: HISTORIC AND CULTURAL RESOURCES ARE FOUND NEAR THE PROJECT AREA BUT NO ADVERSE IMPACTS ANTICIPATED.
7. FISH & WILDLIFE HABITAT PRESENCE: NONE

GENERAL:

1. READ AND COMPLY WITH THE CGP AND SECTION 641 OF THE PROJECT SPECIFICATIONS.
2. A SWPPP AND HMCP ARE REQUIRED FOR THIS PROJECT.
3. EROSION AND SEDIMENT CONTROL FEATURES MUST BE BASED ON THE DOT&PF MANUAL "ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE" (FEBRUARY 2011 OR LATEST VERSION) AND LATEST BMPs.
4. DEVICES MAY NEED TO BE REMOVED AND REINSTALLED TO ALLOW CONSTRUCTION ACTIVITIES TO PROCEED. MAINTAIN ALL DEVICES DAILY INCLUDING, BUT NOT LIMITED TO REMOVAL AND DISPOSAL OF ACCUMULATED SOILS, CLEANING DEVICES AND REPLACEMENT OF DAMAGED DEVICES.
5. STOCKPILE AND STAGING LOCATIONS MUST BE RECLAIMED TO THEIR ORIGINAL CONDITION.
6. ENSURE LOADS ARE STABLE OR COVERED SO NO MATERIAL ESCAPES DURING HAULING ACTIVITIES.
7. PROVIDE CONCRETE WASHOUT FACILITIES.
8. PROVIDE VEHICLE CLEANING EQUIPMENT OR OTHER APPROVED CONTROLS TO PREVENT TRACKING OF DIRT AND GRAVEL ONTO PAVED SURFACES.



ESCP LEGEND:

R/W	RIGHT OF WAY
	SURFACE WATER FLOW DIRECTION
P P P P	TEMPORARY PERIMETER CONTROL – VEGETATIVE BUFFER STRIPS OR FIBER ROLLS (BMP AK-16 OR AK-8, ALASKA SWPPP GUIDE) OR FUNCTIONAL EQUIVALENT TO MANUFACTURER'S SPECIFICATIONS
	INLET PROTECTION (BMP AK-19)

EROSION CONTROL NOTES

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ALASKA	STP-000S(413)/61725	2015	P2	– –

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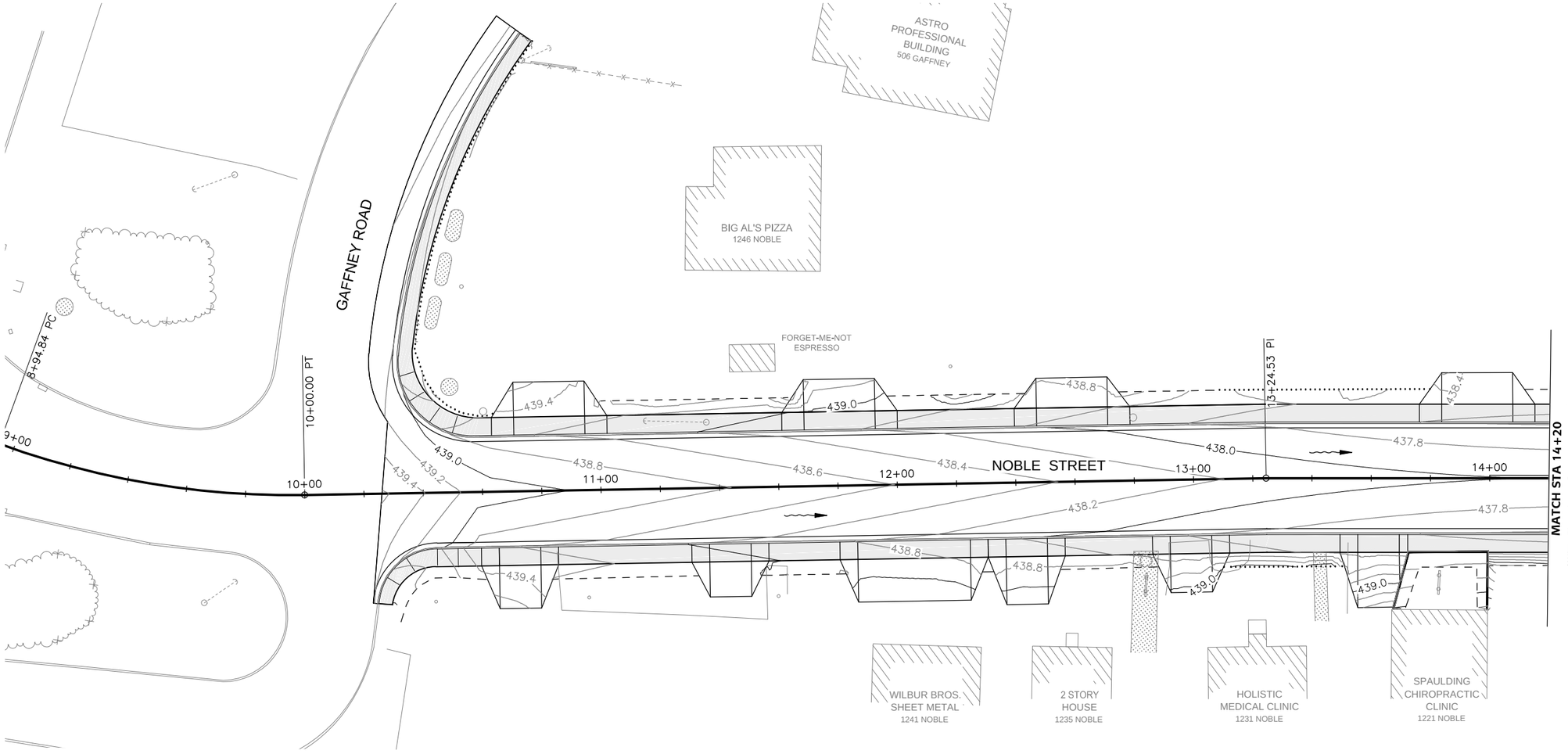

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EROSION AND SEDIMENT CONTROL PLAN (1 OF 6)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	P3	– –

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FEET
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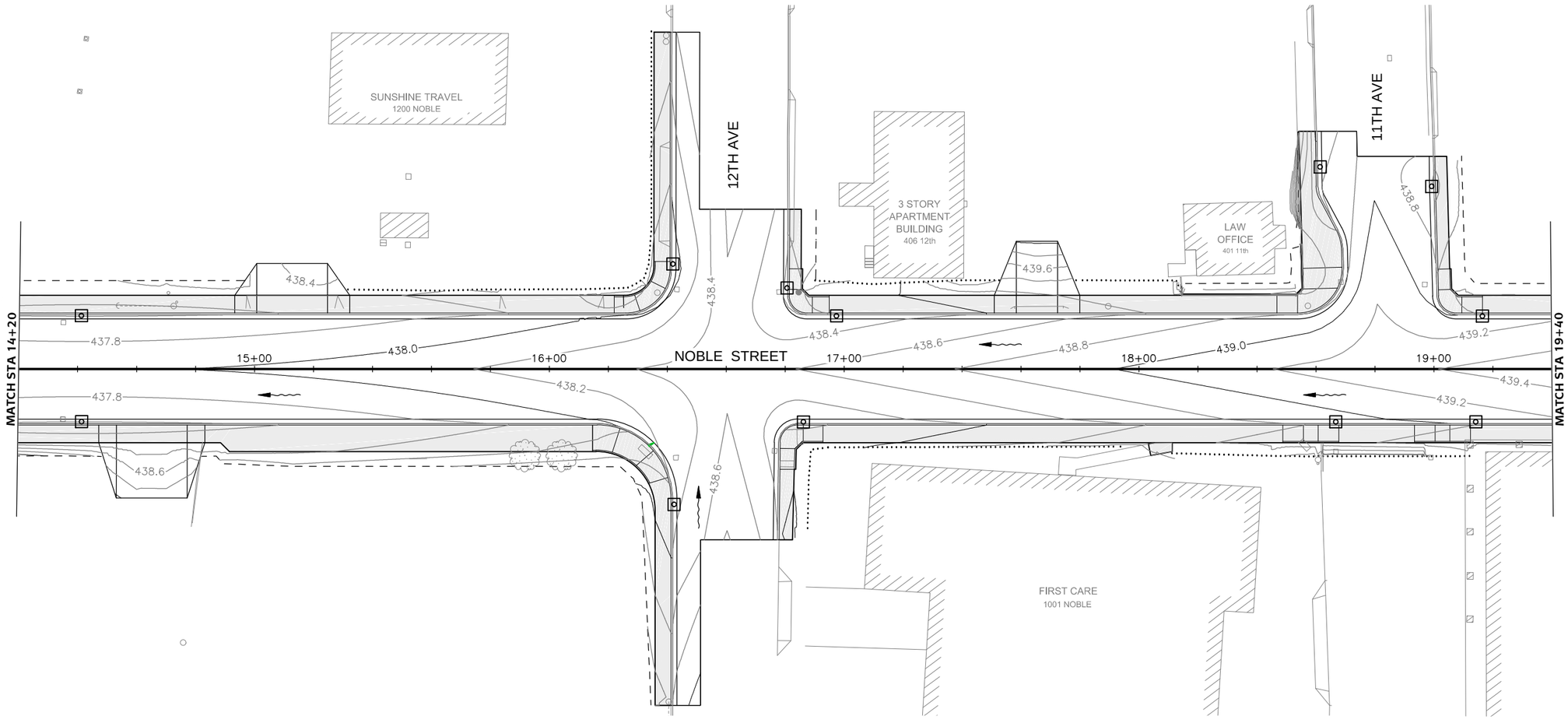

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EROSION AND SEDIMENT CONTROL PLAN (2 OF 6)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	P4	– –

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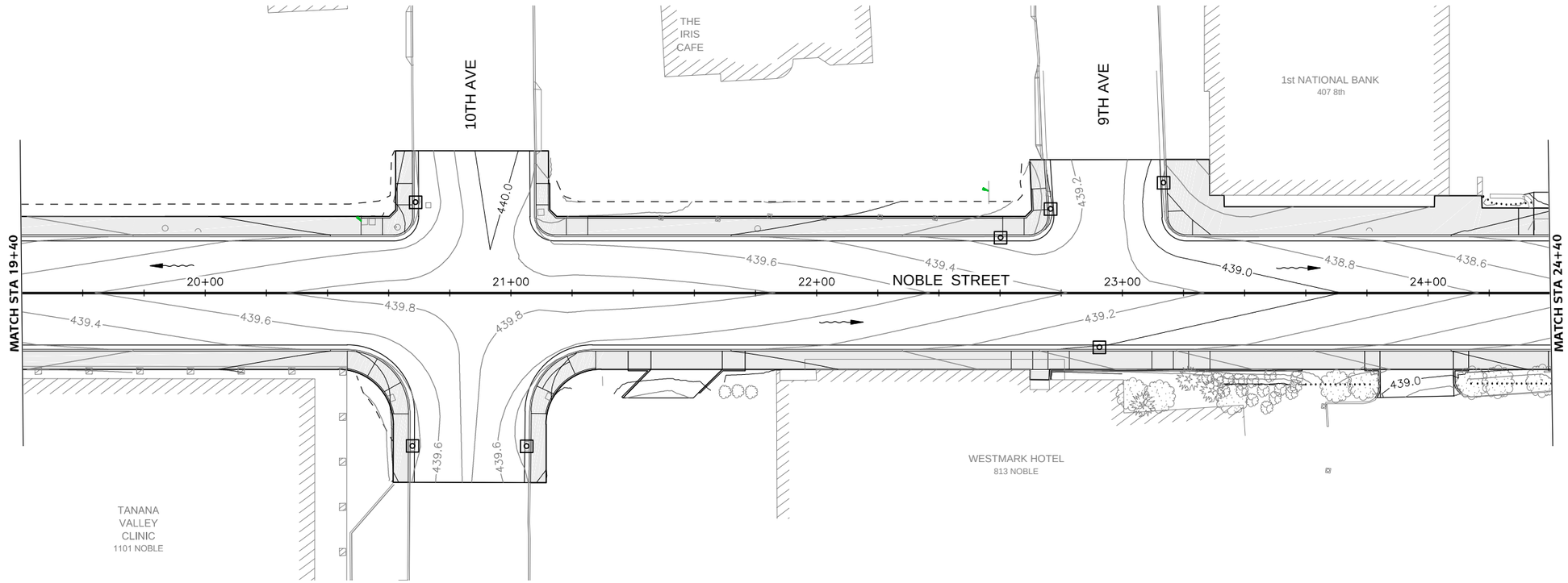
FEET
20 10 0 20 40



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EROSION AND SEDIMENT CONTROL PLAN (3 OF 6)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	P5	– –

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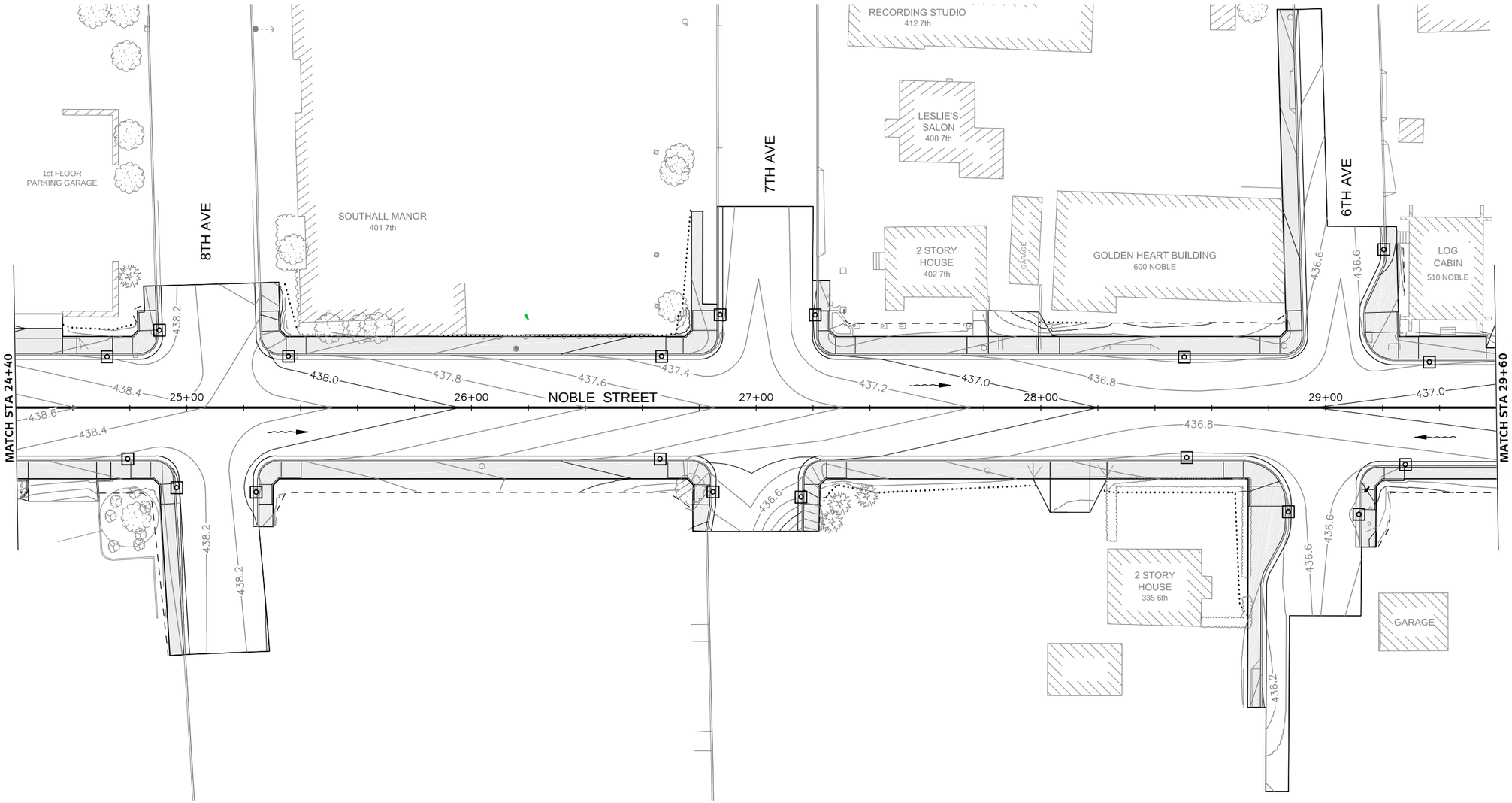
FEET
20 10 0 20 40



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EROSION AND SEDIMENT CONTROL PLAN (4 OF 6)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	P6	– –

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FEET
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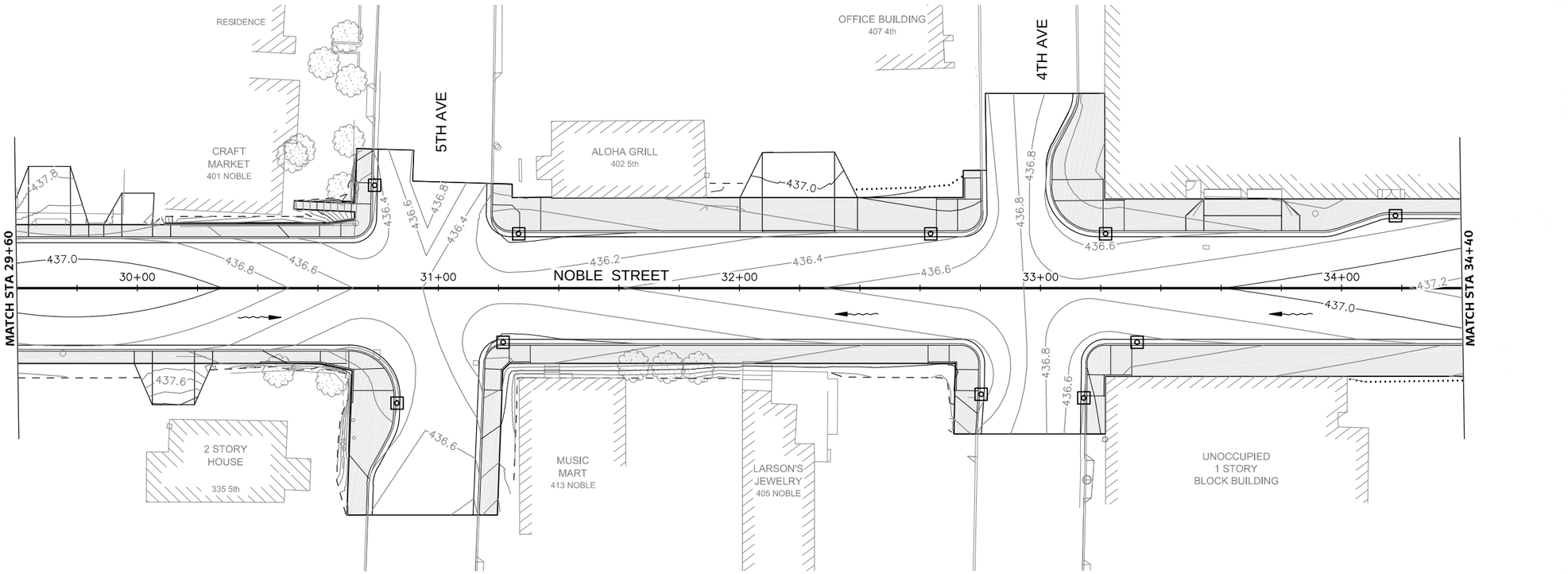

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EROSION AND SEDIMENT CONTROL PLAN (5 OF 6)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	P7	– –

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FEET
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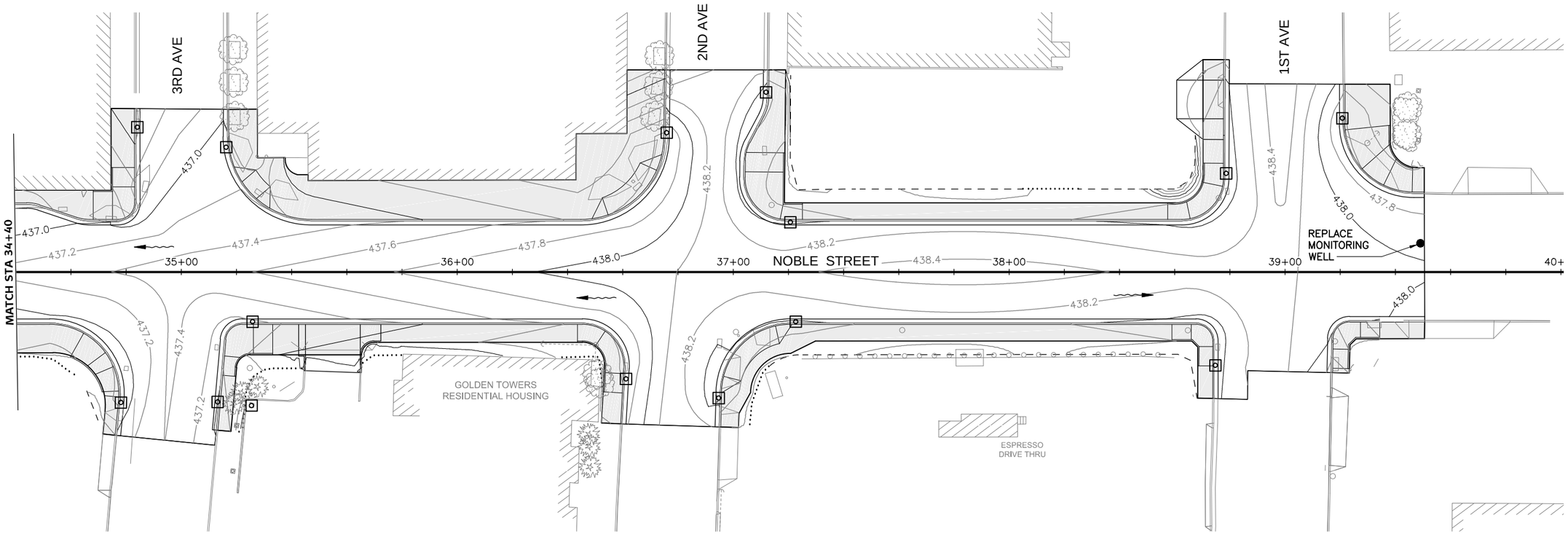

Friday, December 12, 2014, 12:35 PM

EROSION AND SEDIMENT CONTROL PLAN (6 OF 6)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	T1	– –

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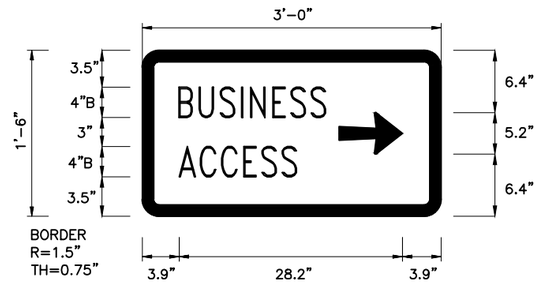

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M.U.T.C.D.: 2003 EDITION

TRAFFIC CONTROL GENERAL NOTES

1. MAINTAIN ACCESS TO BUSINESSES DURING BUSINESS HOURS. MAINTAIN CONTINUOUS, 24 HR/7 DAYS PER WEEK ACCESS TO RESIDENCE AND HOTELS. BUSINESSES WITHIN THE PROJECT LIMITS MAY HAVE DELIVERIES AND GARBAGE PICK–UP DURING NON–BUSINESS HOURS. CONTRACTOR SHALL CONTACT ALL BUSINESSES IN THE PROJECT LIMITS AND COORDINATE WITH THEM TO ENSURE ACCESS. PAYMENT FOR THIS WORK IS SUBSIDIARY TO BID ITEM 643(2) TRAFFIC MAINTENANCE.
2. NO CONSTRUCTION SHALL OCCUR BETWEEN 11 PM AND 7 AM IN ACCORDANCE WITH CITY OF FAIRBANKS CODE OF ORDINANCES. THE CONTRACTOR MAY APPLY FOR A VARIANCE TO THE NOISE ORDINANCE THROUGH THE CITY OF FAIRBANKS FOR SPECIFIC ACTIVITIES OR DURATIONS.
3. CONTRACTOR TO DETERMINE CONSTRUCTION SEQUENCING AS APPROVED BY ENGINEER. PAYMENT FOR ALL TRAFFIC CONTROL REQUIRED FOR WORK DONE BY UTILITY COMPANIES SHALL BE SUBSIDIARY TO BID ITEM 643(2) TRAFFIC MAINTENANCE.
4. PROVIDE, INSTALL, MAINTAIN, MOVE AND REMOVE TRAFFIC CONTROL DEVICES AND ACCESS ACCORDING TO CURRENT ALASKA TRAFFIC MANUAL, ALASKA SIGN DESIGN SPECIFICATIONS, AND APPROVED TRAFFIC CONTROL PLAN.
5. PUBLIC NOTICE OF ROAD CLOSURES SHALL BE MADE IN ACCORDANCE WITH PUBLIC NOTIFICATION NOTES.
6. MOUNT SIGNS SECURELY. MAINTAIN WORK SITE AND AFFECTED AREAS DAILY.
7. COVER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNING. COORDINATE REMOVAL WITH CITY OF FAIRBANKS PUBLIC WORKS DEPARTMENT.
8. CONSTRUCTION SIGNING MAY BE ALTERED BY THE ENGINEER TO MEET CHANGING CONDITIONS AND TO PROTECT THE TRAVELING PUBLIC.
9. ALL BARRICADES 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).
10. ACCESS SHALL BE MAINTAINED FOR THE PASSAGE FOR EMERGENCY VEHICLES THROUGH THE PROJECT.
11. PROVIDE REASONABLE VEHICULAR ACCESS TO COMMERCIAL PROPERTIES DURING THEIR BUSINESS HOURS. ALTERNATIVE ACCESS MAY ALSO BE USED AS PART OF AN APPROVED TRAFFIC CONTROL PLAN.
12. TYPE "A" FLASHING WARNING LIGHTS SHALL BE USED TO MARK THE TYPE III BARRICADES, ROAD CLOSURES AND ADVANCE DETOUR SIGNING AT NIGHT.
13. INTEGRATE TRAFFIC CONTROL WITH OTHER CONSTRUCTION IN THE AREA.
14. ALL SPECIAL SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH BORDERS HAVING 1.5" RADIUS AND 0.75" THICKNESS. SEE SPECIFICATIONS.
15. DRIVEWAYS ADJACENT TO AN EXCAVATION SHALL BE RAMPED TO PROVIDE ACCESS. DELINEATE WITH CONES.
16. INSTALL PEDESTRIAN FENCING AROUND ALL OPEN EXCAVATIONS AT NIGHT.
17. AVOID ROUTING PEDESTRIAN DETOURS ON ROAD SHOULDERS OR STREETS.
18. ALL PEDESTRIAN DETOURS MUST MEET THE ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
19. USE EXPRESSWAY/FREEWAY DIMENSIONS SPECIFIED IN THE AKDOT'S ALASKA SIGN DESIGN SPECIFICATIONS MANUAL FOR ALL SIGNS PLACED ON AIRPORT WAY AND STEESE EXPRESSWAY. USE LISTED CONVENTIONAL DIMENSIONS FOR ALL SIGNS ON OTHER ROADS. REFERENCE AKDOT&PF WEBSITE: HTTP://WWW.DOT.STATE.AK.US/STWDDES/DCSTRAFFIC/ASDSMSG.SHTML
20. COORDINATED WITH THE CITY OF FAIRBANKS TO ACCOMMODATE SPECIAL EVENTS SUCH AS THE GOLDEN DAYS PARADE AND STREET FAIRS.
21. FIVE MACS BUS LINES HAVE ROUTES THAT PASS WITHIN THE PROJECT LIMITS (GREEN, BROWN, GOLD, BLUE, AND PURPLE BUS LINES). CONTRACTOR SHALL COORDINATED ROUTE CHANGES AND BUS ACCOMMODATIONS DURING CONSTRUCTION WITH FNSB. PAYMENT IS SUBSIDIARY TO BID ITEM 643(2) TRAFFIC MAINTENANCE
22. EACH SEGMENT OF NOBLE MAY ONLY BE CLOSED FOR XX WEEKS BEFORE REOPENING TO TRAFFIC. EACH DAY DELAY IN OPENING THE ROAD TO TRAFFIC WILL BE PENALIZED PER 643(23) TRAFFIC PRICE ADJUSTMENT.
23. WHEN SIDEWALKS ARE CLOSED TO PEDESTRIANS, PROVIDE PEDESTRIAN TRAFFIC CONTROL PER STANDARD DRAWING C–03.10.

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER

TRAFFIC CONTROL PLAN

Friday, December 12, 2014, 12:35 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U1	– –

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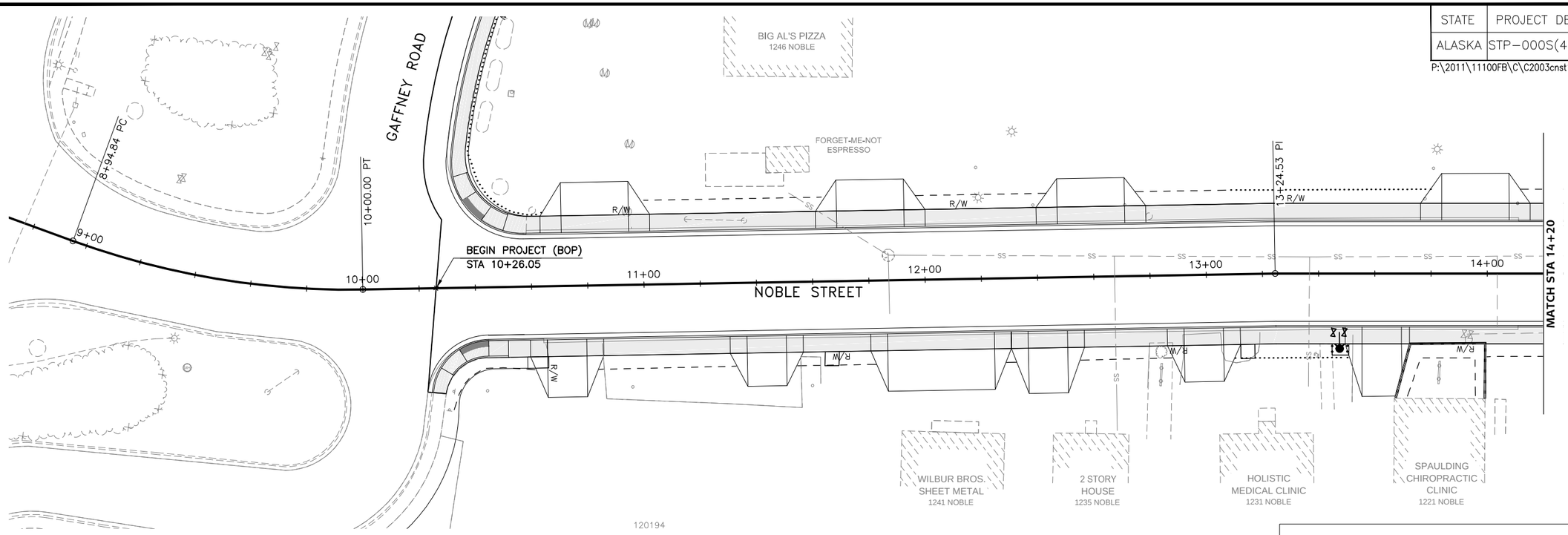
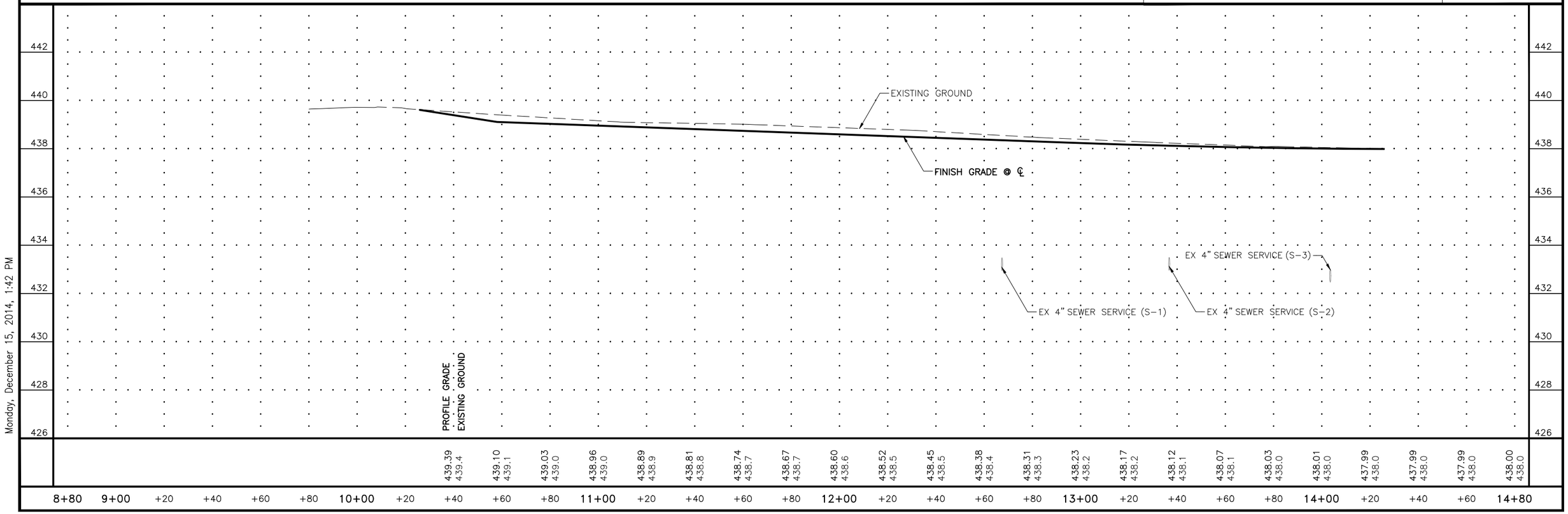


STORM DRAIN 10+58 – 14+20



STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER

Monday, December 15, 2014, 1:42 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U2	– –

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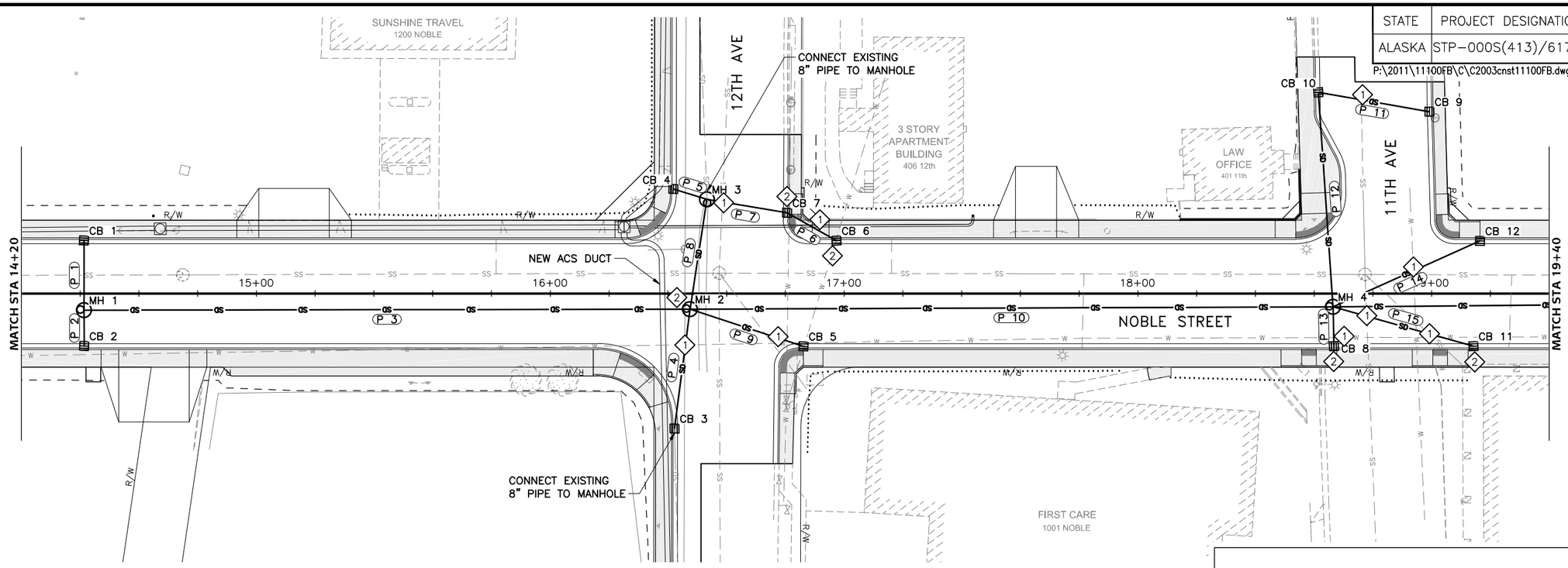
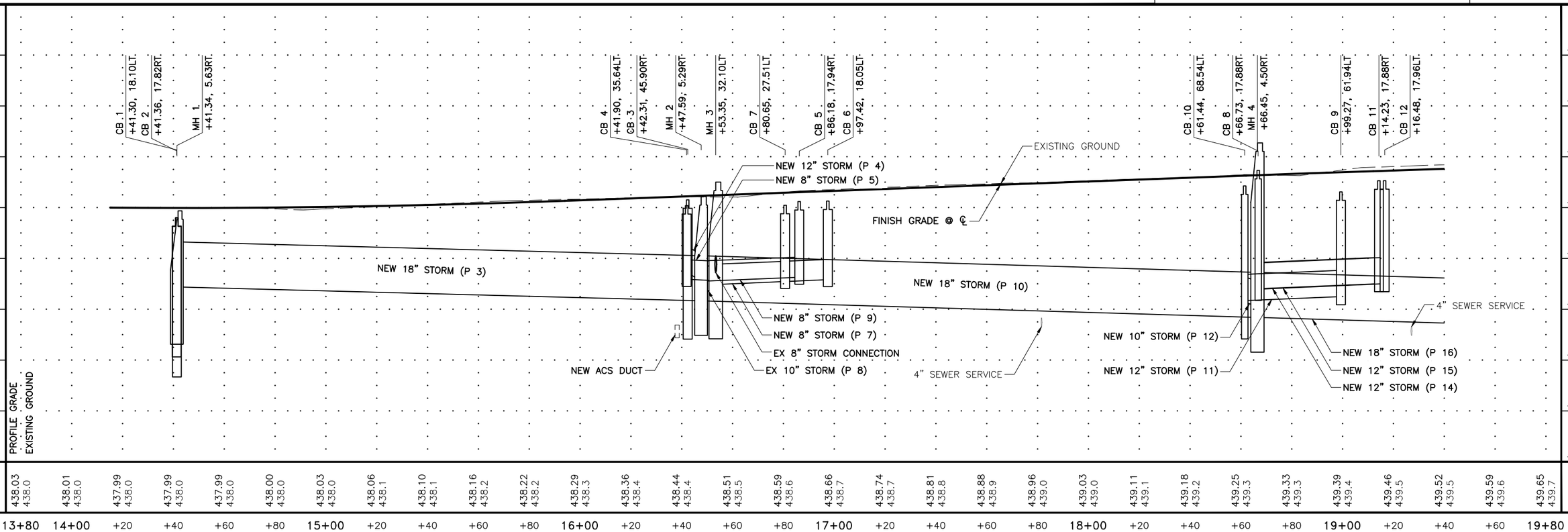


NOTES: ◇1 INSULATE PIPE AT WATER LINE CROSSING.
◇2 INSULATE STRUCTURE.

STORM DRAIN 14+20 – 19+40

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER



Monday, December 15, 2014, 3:12 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U3	– –

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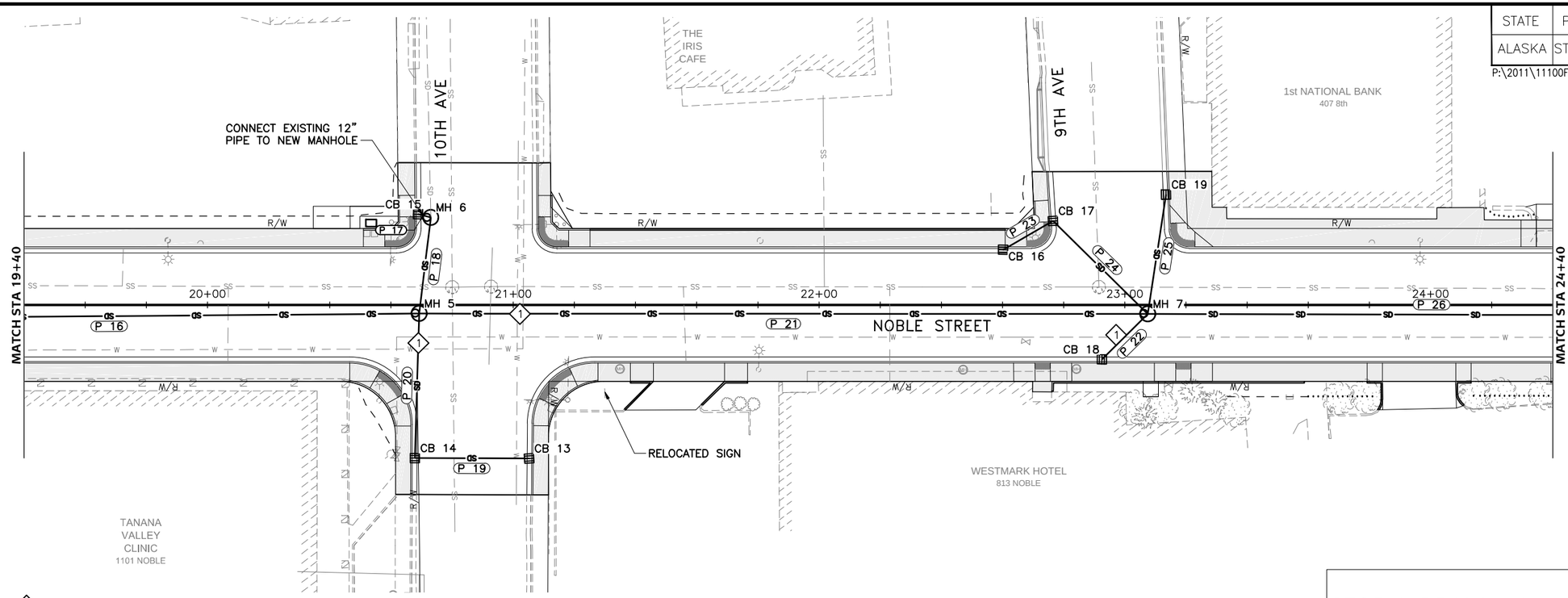
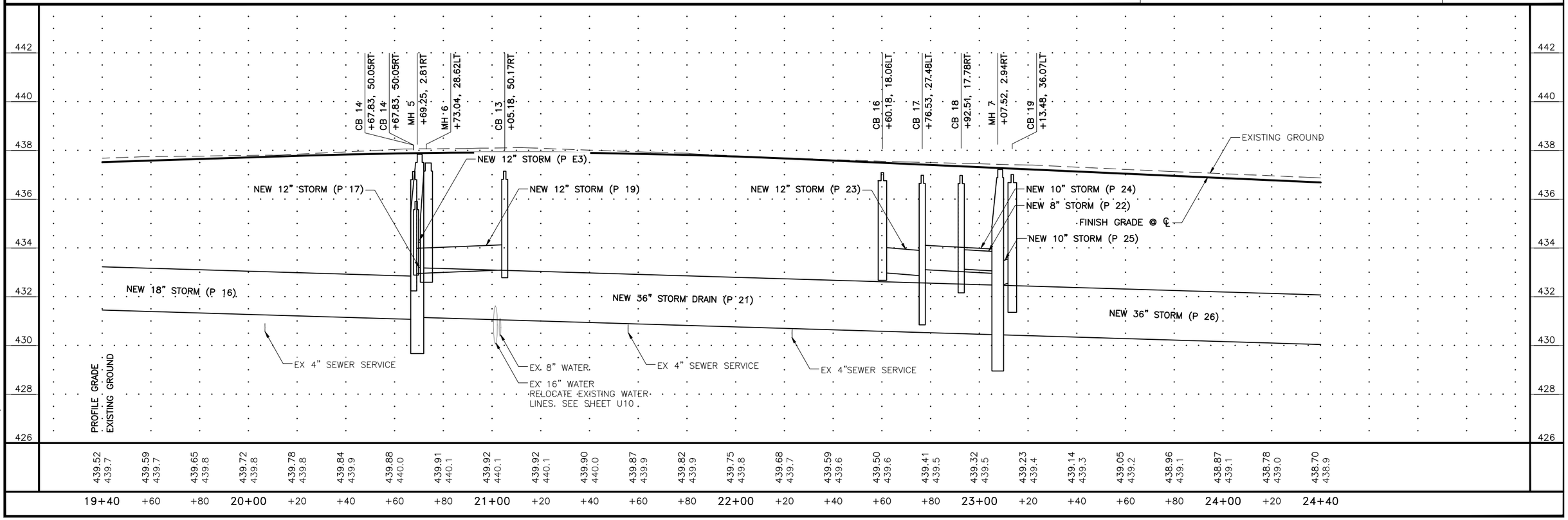


NOTES: ◇1 INSULATE PIPE AT WATER LINE CROSSING.

STORM DRAIN 19+40 – 24+40

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U4	– –

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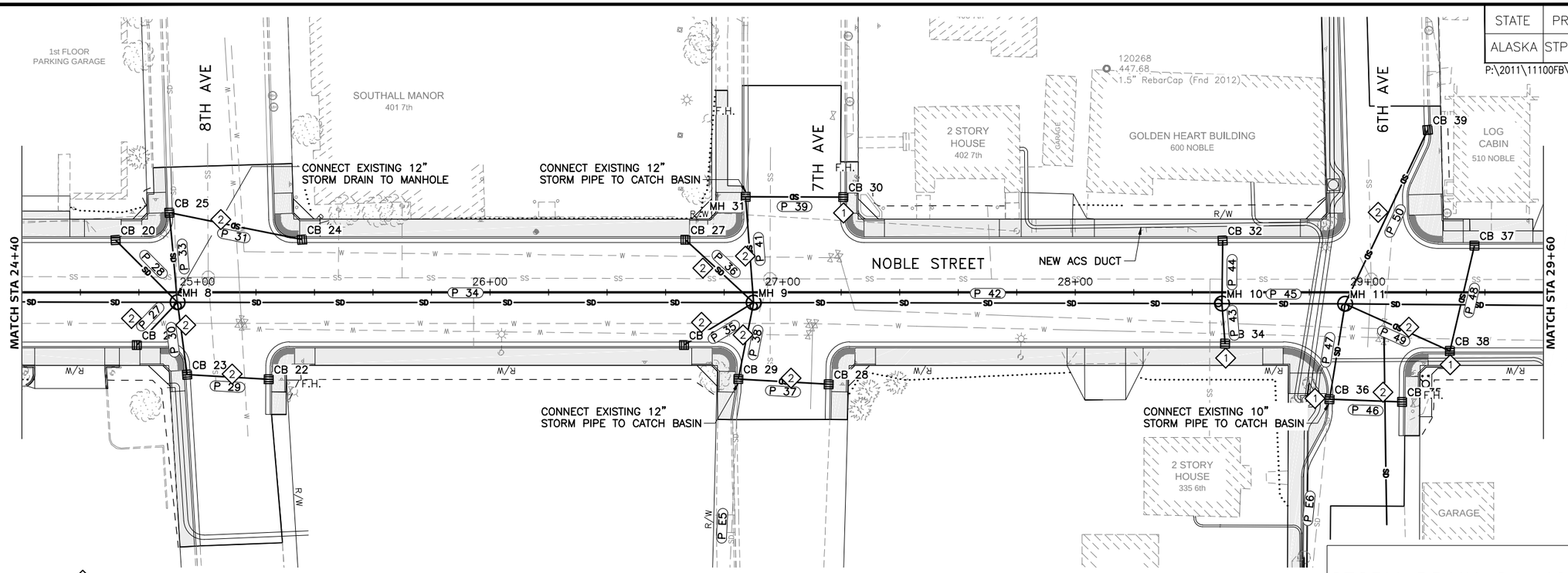
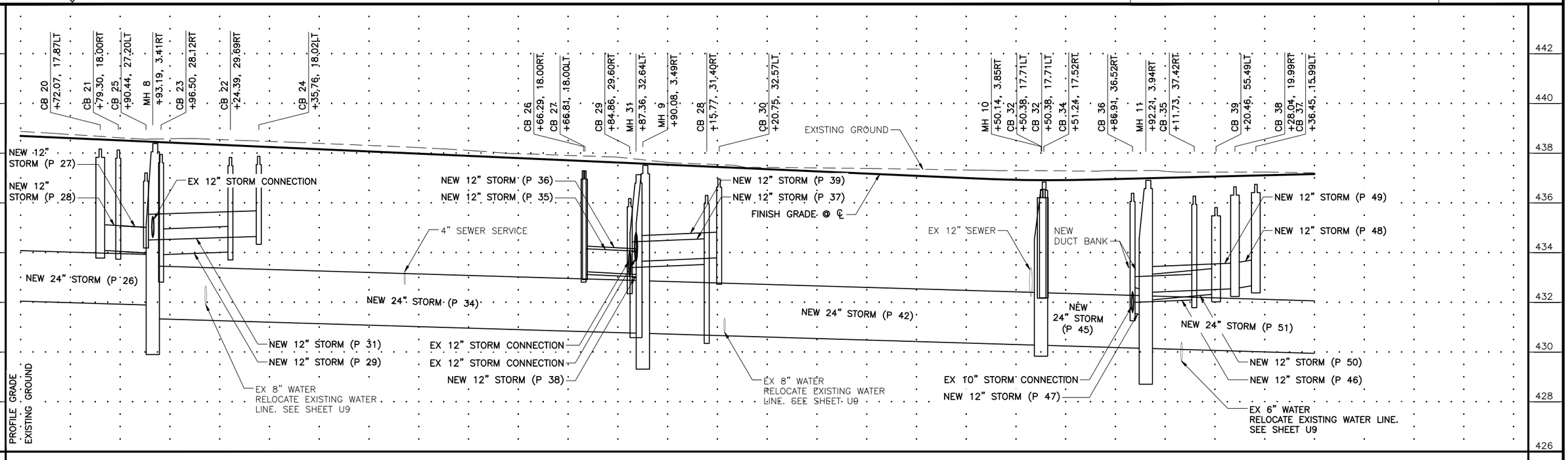


NOTES: ◇1 INSULATE CATCH BASIN(S).

◇2 INSULATE PIPE(S) AT WATER LINE CROSSING.

STORM DRAIN 24+40 – 29+60

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER



Monday, December 15, 2014, 1:44 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U5	– –

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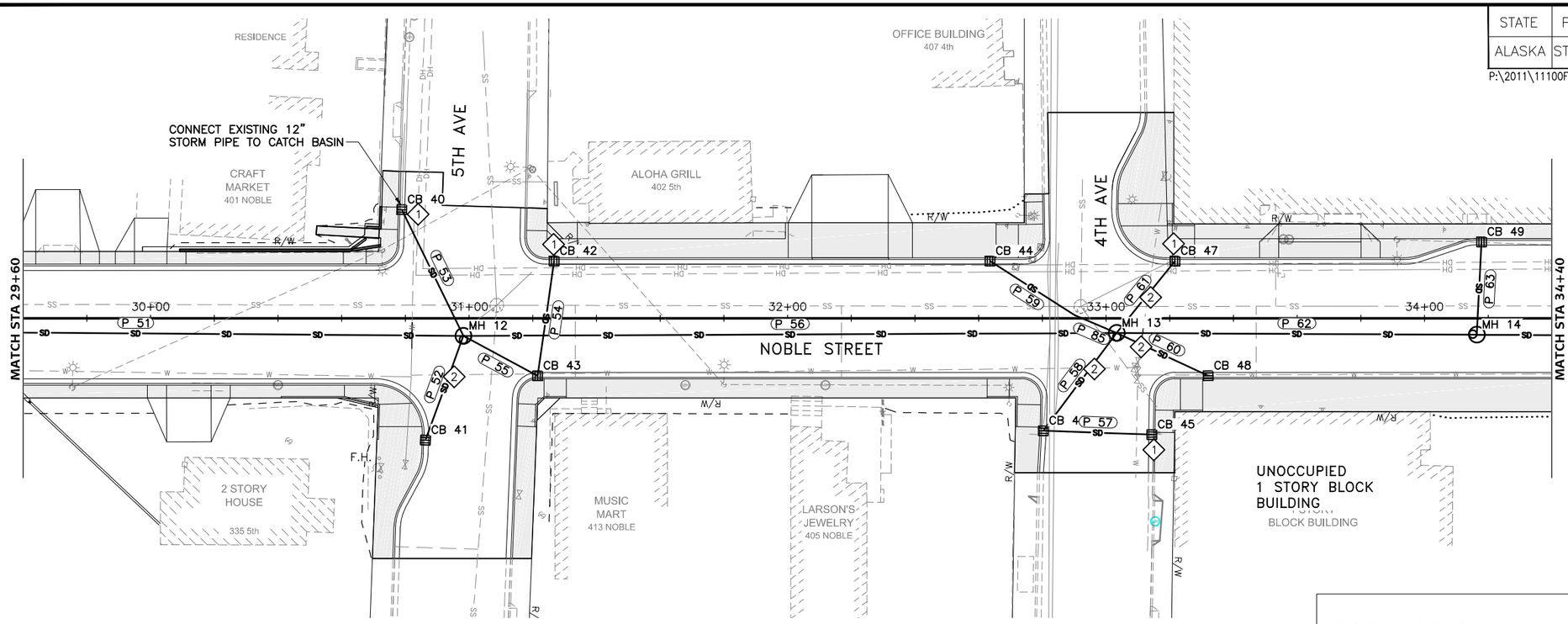


NOTES: ① INSULATE CATCH BASIN(S).

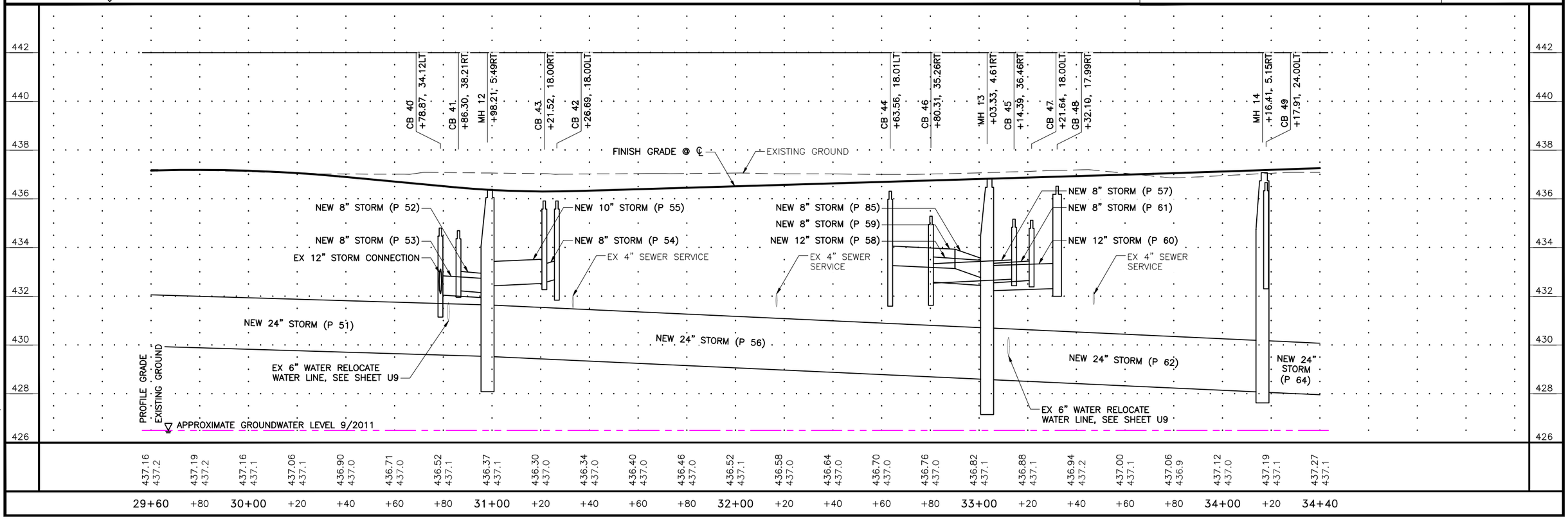
② INSULATE PIPE(S) AT WATER LINE CROSSING.

GENERAL NOTES:

1. APPROXIMATE GROUNDWATER LEVEL DETERMINED FROM 9/2011 GEOTECHNICAL BORINGS. SHOWN FOR INFORMATION ONLY. ELEVATION DURING CONSTRUCTION MAY VARY SIGNIFICANTLY.

STORM DRAIN 29+60 – 34+40

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U6	– –

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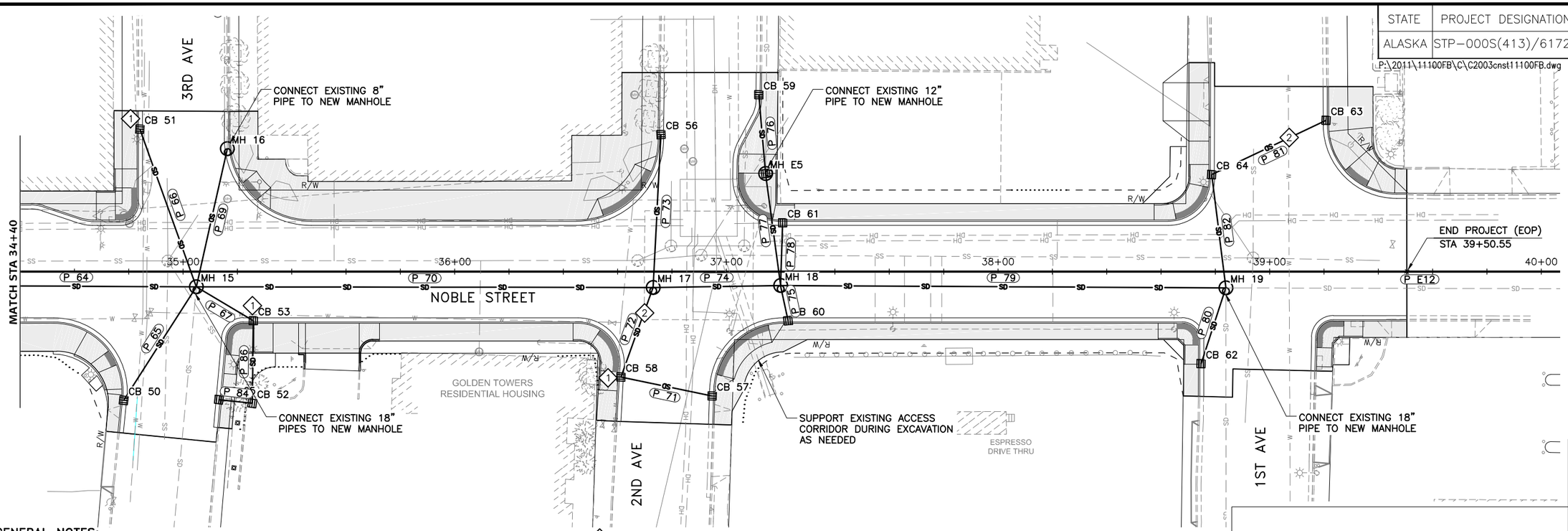


GENERAL NOTES:

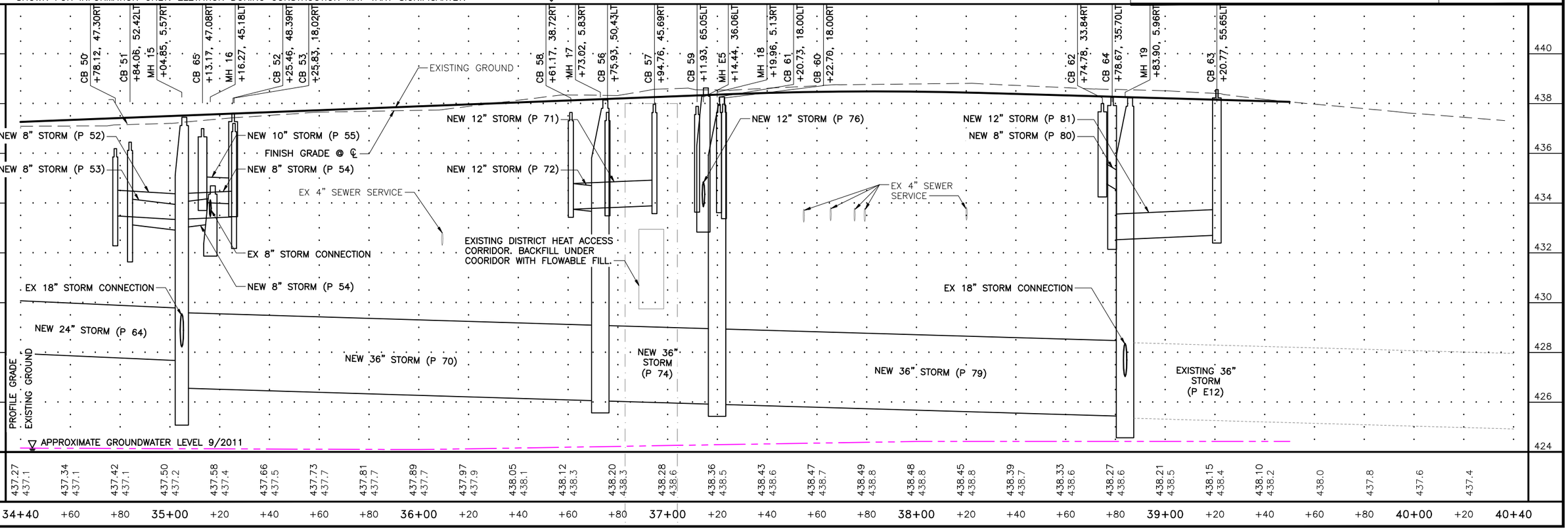
1. APPROXIMATE GROUNDWATER LEVEL DETERMINED FROM 9/2011 GEOTECHNICAL BORINGS. SHOWN FOR INFORMATION ONLY. ELEVATION DURING CONSTRUCTION MAY VARY SIGNIFICANTLY.

NOTES: ① INSULATE CATCH BASIN(S).

② INSULATE PIPE(S) AT WATER LINE CROSSINGS.

STORM DRAIN 34+40 – 38+70

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER



Monday, December 15, 2014, 1:45 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U7	– –

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STRUCTURE SUMMARY

NAME:	TYPE	STATION	OFFSET	RIM	SUMP	PIPES IN INVERTS	PIPES OUT INVERTS
CB 1	INLET, TYPE A	14+41.30	−18.10 L	437.59	432.46		(P 1) 433.22' E
CB 2	INLET, TYPE A	14+41.36	17.82 R	437.60	431.67		(P 2) 433.67' W
CB 3	INLET, TYPE A	16+42.31	45.90 R	438.31	433.16	(P E2) 435.52' E	(P 4) 435.47' W
CB 4	INLET, TYPE A	16+41.90	−35.64 L	438.08	435.23		(P 5) 435.23' N
CB 5	INLET, TYPE A	16+86.18	17.94 R	438.24	435.32		(P 9) 435.32' S
CB 6	INLET, TYPE A	16+97.42	−18.05 L	438.26	435.23		(P 6) 435.23' S
CB 7	INLET, TYPE A	16+80.65	−27.51 L	438.09	435.16	(P 6) 435.16' N	(P 7) 435.16' S
CB 8	INLET, TYPE A	18+66.73	17.88 R	439.46	434.68		(P 13) 437.08' W
CB 9	INLET, TYPE A	18+99.27	−61.94 L	438.62	434.51		(P 11) 434.51' S
CB 10	INLET, TYPE A	18+61.44	−68.54 L	438.85	433.17	(P 11) 434.36' N	(P 12) 434.36' E
CB 11	INLET, TYPE A	19+14.23	17.88 R	439.06	435.02		(P 15) 435.02' S
CB 12	INLET, TYPE A	19+16.48	−17.96 L	439.06	435.03		(P 14) 435.03' SE
CB 13	INLET, TYPE A	21+05.18	50.17 R	439.15	435.12		(P 19) 435.12' S
CB 14	INLET, TYPE A	20+67.83	50.05 R	439.14	434.58	(P 19) 434.97' N	(P 20) 435.17' W
CB 15	INLET, TYPE A	20+68.85	−29.66 L	437.91	435.23		(P 17) 435.23' N
CB 16	INLET, TYPE A	22+60.18	−18.06 L	439.10	435.01		(P 23) 435.01' NW
CB 17	INLET, TYPE A	22+76.53	−27.48 L	438.99	433.19	(P 23) 434.88' SE	(P 24) 435.20' NE
CB 18	INLET, TYPE A	22+92.51	17.78 R	438.98	434.50		(P 22) 435.21' NW
CB 19	INLET, TYPE A	23+13.48	−36.07 L	439.02	433.70		(P 25) 434.70' E
CB 20	INLET, TYPE A	24+72.07	−17.87 L	438.17	434.11		(P 28) 434.11' NE
CB 21	INLET, TYPE A	24+79.30	18.00 R	438.13	434.07		(P 27) 434.07' NW
CB 22	INLET, TYPE A	25+24.39	29.69 R	437.83	434.04		(P 29) 434.04' S
CB 23	INLET, TYPE A	24+96.50	28.12 R	437.95	433.15	(P 29) 433.93' N	(P 30) 433.83' W
CB 24	INLET, TYPE A	25+35.76	−18.02 L	437.88	434.67		(P 31) 434.67' S
CB 25	INLET, TYPE A	24+90.44	−27.20 L	437.21	434.52	(P 31) 434.52' N	(P 33) 434.52' E
CB 26	INLET, TYPE A	26+66.29	18.00 R	437.29	433.15		(P 35) 433.15' NW
CB 27	INLET, TYPE A	26+66.81	−18.00 L	437.29	433.25		(P 36) 433.25' NE
CB 28	INLET, TYPE A	27+15.77	31.40 R	436.30	430.68		(P 37) 433.54' S
CB 29	INLET, TYPE A	26+84.86	29.60 R	436.18	432.69	(P 37) 433.42' N (P E5) 433.05' E	(P 38) 433.05' W
CB 30	INLET, TYPE A	27+20.75	−32.57 L	436.96	433.06		(P 39) 433.81' S
CB 32	INLET, TYPE A	28+50.38	−17.71 L	436.54	432.50		(P 44) 432.50' E
CB 34	INLET, TYPE A	28+51.24	17.52 R	436.55	432.52		(P 43) 432.52' W
CB 35	INLET, TYPE A	29+11.73	37.42 R	436.27	432.12		(P 46) 432.12' S
CB 36	INLET, TYPE A	28+86.91	36.52 R	436.39	431.60	(P E6) 431.60' E (P 46) 432.02' N	(P 47) 431.60' W
CB 37	INLET, TYPE A	29+36.45	−15.99 L	436.75	432.72		(P 48) 432.72' E
CB 38	INLET, TYPE A	29+28.04	19.99 R	436.65	432.57	(P 48) 432.57' W	(P 49) 432.57' S
CB 39	INLET, TYPE A	29+20.46	−55.49 L	435.81	432.36		(P 50) 432.36' E
CB 40	INLET, TYPE A	30+78.87	−34.12 L	434.80	431.48	(P E7) 432.12' W	(P 53) 432.12' NE
CB 41	INLET, TYPE A	30+86.30	38.21 R	434.70	432.30		(P 52) 432.30' W
CB 42	INLET, TYPE A	31+26.69	−18.00 L	435.91	432.18		(P 54) 432.76' E
CB 43	INLET, TYPE A	31+21.52	18.00 R	435.91	432.61	(P 54) 432.61' W	(P 55) 432.61' S
CB 44	INLET, TYPE A	32+63.56	−18.01 L	436.31	431.93		(P 59) 433.33' NE
CB 45	INLET, TYPE A	33+14.39	36.46 R	435.17	432.77		(P 57) 432.77' S

STRUCTURE SUMMARY

NAME:	TYPE	STATION	OFFSET	RIM	SUMP	PIPES IN INVERTS	PIPES OUT INVERTS
CB 46	INLET, TYPE A	32+80.31	35.26 R	435.29	431.96	(P 57) 432.60' N	(P 58) 432.60' NW
CB 47	INLET, TYPE A	33+21.64	−18.00 L	435.12	432.72		(P 61) 432.72' SE
CB 48	INLET, TYPE A	33+32.10	17.99 R	436.52	432.34		(P 60) 432.34' S
CB 49	INLET, TYPE A	34+17.91	−24.00 L	436.67	432.64		(P 63) 432.64' E
CB 50	INLET, TYPE A	34+78.12	47.30 R	436.19	432.62		(P 65) 433.50' NW
CB 51	INLET, TYPE A	34+84.06	−52.42 L	436.45	431.97		(P 66) 433.15' NE
CB 52	INLET, TYPE A	35+25.46	48.39 R	437.61	433.79	(P 84) 433.99' S	(P 86) 433.79' W
CB 53	INLET, TYPE A	35+25.83	18.02 R	437.20	432.51	(P 86) 433.67' E	(P 67) 433.46' S
CB 56	INLET, TYPE A	36+75.93	−50.43 L	437.65	433.82		(P 73) 433.82' E
CB 57	INLET, TYPE A	36+94.76	45.69 R	437.97	433.91		(P 71) 433.91' S
CB 58	INLET, TYPE A	36+61.17	38.72 R	437.64	433.77	(P 71) 433.77' N	(P 72) 433.78' W
CB 59	INLET, TYPE A	37+11.93	−65.05 L	437.89	433.97		(P 76) 433.97' E
CB 60	INLET, TYPE A	37+22.70	18.00 R	437.98	433.71		(P 75) 433.71' W
CB 61	INLET, TYPE A	37+20.73	−18.00 L	437.97	433.95		(P 78) 433.95' E
CB 62	INLET, TYPE A	38+74.78	33.84 R	438.00	434.58		(P 80) 434.94' W
CB 63	INLET, TYPE A	39+20.77	−55.65 L	438.56	432.73		(P 81) 432.73' SE
CB 64	INLET, TYPE A	38+78.67	−35.70 L	438.25	432.48	(P 81) 432.54' NW	(P 82) 432.48' E
CB 65	INLET, TYPE A	35+13.17	47.08 R	437.00	434.04		(P 84) 434.04' N
MH 1	STORM SEWER MANHOLE, 48 INCH	14+41.34	5.63 R	437.87	433.13	(P 2) 433.62' E (P 1) 433.13' W	(P 3) 435.02' N
MH 2	STORM SEWER MANHOLE, 48 INCH	16+47.59	5.29 R	438.43	433.47	(P 8) 434.77' W (P 4) 435.11' E (P 9) 435.17' N (P 3) 434.47' S	(P 10) 434.47' N
MH 3	STORM SEWER MANHOLE, 48 INCH	16+53.35	−32.10 L	438.34	433.34	(P 5) 435.17' S (P 7) 435.04' N (P E1) 435.44' W	(P 8) 434.84' E
MH 4	STORM SEWER MANHOLE, 48 INCH	18+66.45	4.50 R	440.54	432.82	(P 10) 433.82' S (P 13) 436.99' E (P 12) 434.19' W (P 14) 434.81' NW (P 15) 434.83' N	(P 16) 433.82' N
MH 5	STORM SEWER MANHOLE, 48 INCH	20+69.25	2.81 R	439.84	432.18	(P 16) 433.21' S (P 18) 434.97' W (P 20) 434.98' E	(P 21) 433.18' N
MH 6	STORM SEWER MANHOLE, 48 INCH	20+73.04	−28.62 L	439.49	435.10	(P E3) 435.20' W (P 17) 435.21' S	(P 18) 435.10' E
MH 7	STORM SEWER MANHOLE, 48 INCH	23+07.52	2.94 R	439.23	431.46	(P 21) 432.46' S (P 25) 434.50' W (P 24) 435.04' SW (P 22) 435.12' SE	(P 26) 432.46' N
MH 8	STORM SEWER MANHOLE, 48 INCH	24+93.19	3.41 R	438.39	430.41	(P 26) 431.91' S (P 33) 434.41' W (P 30) 433.73' E (P E4) 434.62' W (P 27) 433.99' SE (P 28) 433.99' SW	(P 34) 431.41' N
MH 9	STORM SEWER MANHOLE, 48 INCH	26+90.08	3.49 R	437.51	429.81	(P 34) 430.81' S (P 41) 433.42' W (P 38) 432.95' E (P 35) 433.04' SE (P 36) 433.13' SW	(P 42) 430.81' N

Friday, December 12, 2014, 12:45 PM

SUMMARY TABLES
(1 OF 2)

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U8	– –

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STRUCTURE SUMMARY

NAME:	TYPE	STATION	OFFSET	RIM	SUMP	PIPES IN INVERTS	PIPES OUT INVERTS
MH 10	STORM SEWER MANHOLE, 48 INCH	28+50.14	3.85 R	436.84	430.33	(P 42) 430.33' S (P 44) 432.42' W (P 43) 432.46' E	(P 45) 430.33' N
MH 11	STORM SEWER MANHOLE, 48 INCH	28+92.21	3.94 R	436.91	429.21	(P 45) 430.21' S (P 47) 431.46' E (P 50) 432.09' W (P 49) 432.41' N	(P 51) 430.21' N
MH 12	STORM SEWER MANHOLE, 48 INCH	30+98.21	5.49 R	436.39	428.59	(P 51) 429.59' S (P 55) 432.51' N (P 53) 432.00' SW (P 52) 432.20' E	(P 56) 429.59' N
MH 13	STORM SEWER MANHOLE, 48 INCH	33+03.33	4.61 R	436.81	427.65	(P 56) 428.65' S (P 61) 432.61' NW (P 85) 432.74' S (P 60) 432.24' N (P 58) 432.45' SE	(P 62) 428.65' N
MH 14	STORM SEWER MANHOLE, 48 INCH	34+16.41	5.15 R	437.08	428.13	(P 62) 428.13' S (P 63) 432.52' W	(P 64) 428.13' N
MH 15	STORM SEWER MANHOLE, 48 INCH	35+04.85	5.57 R	437.45	425.58	(P 64) 427.72' S (P 67) 433.37' N (P 65) 433.34' SE (P 69) 433.03' W (P 66) 432.90' SW (P E8) 428.22' E	(P 70) 426.58' N
MH 16	STORM SEWER MANHOLE, 48 INCH	35+16.27	–45.18 L	434.69	432.37	(P E9) 433.46' W	(P 69) 433.17' E
MH 17	STORM SEWER MANHOLE, 72 INCH	36+73.02	5.83 R	438.14	426.07	(P 70) 426.07' S (P 72) 433.65' E (P 73) 433.69' W	(P 74) 426.07' N
MH 18	STORM SEWER MANHOLE, 72 INCH	37+19.96	5.13 R	438.26	425.93	(P 74) 425.93' S (P 77) 433.17' W (P 75) 433.66' E (P 78) 433.86' W	(P 79) 425.93' N
MH 19	STORM SEWER MANHOLE, 72 INCH	38+83.90	5.96 R	438.23	425.07	(P 79) 425.45' S (P 80) 434.39' E (P 82) 432.34' W (P E11) 427.03' E	(P E12) 425.38' N
MH 31	STORM SEWER MANHOLE, 48 INCH	26+87.36	–32.64 L	437.14	431.08	(P E40) 433.65' W (P 39) 433.66' N	(P 41) 433.54' E
MH E5	STORM SEWER MANHOLE, 48 INCH	37+14.44	–36.06 L	438.69	433.33	(P E10) 433.86' W (P 76) 433.86' W	(P 77) 433.33' E

PIPE SUMMARY

NAME	SIZE (in)	MATERIAL	SLOPE	START INVERT	END INVERT
P 1	10	HDPE	0.40%	433.13'	433.22'
P 2	10	HDPE	0.40%	433.67'	433.62'
P 3	18	HDPE	0.27%	434.47'	435.02'
P 4	12	HDPE	0.88%	435.47'	435.11'
P 5	8	HDPE	0.48%	435.23'	435.17'
P 6	8	HDPE	0.38%	435.23'	435.16'
P 7	8	HDPE	0.41%	435.16'	435.04'
P 8	10	HDPE	0.20%	434.77'	434.84'
P 9	8	HDPE	0.37%	435.32'	435.17'
P 10	18	HDPE	0.30%	433.82'	434.47'
P 11	12	HDPE	0.40%	434.51'	434.36'
P 12	10	HDPE	0.23%	434.36'	434.19'
P 13	8	HDPE	0.65%	437.08'	436.99'
P 14	12	HDPE	0.40%	435.03'	434.81'
P 15	12	HDPE	0.40%	434.83'	435.02'
P 16	18	HDPE	0.30%	433.21'	433.82'
P 17	12	HDPE	0.42%	435.21'	435.23'
P 18	12	HDPE	0.40%	435.10'	434.97'
P 19	12	HDPE	0.40%	435.12'	434.97'
P 20	18	HDPE	0.40%	435.17'	434.98'
P 21	24	HDPE	0.30%	432.46'	433.18'
P 22	8	HDPE	0.40%	435.12'	435.21'
P 23	12	HDPE	0.73%	435.01'	434.88'
P 24	10	HDPE	0.38%	435.20'	435.04'
P 25	10	HDPE	0.50%	434.70'	434.50'
P 26	24	HDPE	0.30%	432.46'	431.91'
P 27	12	HDPE	0.40%	434.07'	433.99'
P 28	12	HDPE	0.40%	434.11'	433.99'
P 29	12	HDPE	0.39%	434.04'	433.93'
P 30	18	HDPE	0.40%	433.83'	433.73'
P 31	12	HDPE	0.31%	434.67'	434.52'
P 33	12	HDPE	0.38%	434.52'	434.41'
P 34	24	HDPE	0.30%	431.41'	430.81'
P 35	12	HDPE	0.40%	433.04'	433.15'
P 36	12	HDPE	0.40%	433.25'	433.13'
P 37	12	HDPE	0.40%	433.54'	433.42'
P 38	12	HDPE	0.40%	433.05'	432.95'
P 39	12	HDPE	0.44%	433.81'	433.66'
P 41	18	HDPE	0.32%	433.54'	433.42'
P 42	24	HDPE	0.30%	430.81'	430.33'
P 43	12	HDPE	0.40%	432.46'	432.52'
P 44	12	HDPE	0.40%	432.50'	432.42'
P 45	24	HDPE	0.30%	430.33'	430.21'
P 46	12	HDPE	0.42%	432.12'	432.02'
P 47	12	HDPE	0.40%	431.60'	431.46'
P 48	12	HDPE	0.40%	432.72'	432.57'
P 49	12	HDPE	0.40%	432.57'	432.41'

PIPE SUMMARY

NAME	SIZE (in)	MATERIAL	SLOPE	START INVERT	END INVERT
P 50	12	HDPE	0.40%	432.36'	432.09'
P 51	24	HDPE	0.30%	430.21'	429.59'
P 52	8	HDPE	0.29%	432.30'	432.20'
P 53	8	HDPE	0.28%	432.12'	432.00'
P 54	8	HDPE	0.40%	432.76'	432.61'
P 55	10	HDPE	0.40%	432.61'	432.51'
P 56	24	HDPE	0.46%	429.59'	428.65'
P 57	8	HDPE	0.49%	432.60'	432.77'
P 58	12	HDPE	0.40%	432.60'	432.45'
P 59	8	HDPE	0.40%	433.21'	433.33'
P 60	12	HDPE	0.30%	432.24'	432.34'
P 61	8	HDPE	0.40%	432.61'	432.72'
P 62	24	HDPE	0.46%	428.65'	428.13'
P 63	12	HDPE	0.40%	432.64'	432.52'
P 64	24	HDPE	0.46%	428.13'	427.72'
P 65	12	HDPE	0.32%	433.50'	433.34'
P 66	12	HDPE	0.40%	433.15'	432.90'
P 67	12	HDPE	0.40%	433.46'	433.37'
P 69	12	HDPE	0.26%	433.17'	433.03'
P 70	36	HDPE	0.30%	426.58'	426.07'
P 71	12	HDPE	0.41%	433.91'	433.77'
P 72	12	HDPE	0.35%	433.78'	433.65'
P 73	12	HDPE	0.23%	433.82'	433.69'
P 74	36	HDPE	0.30%	426.07'	425.93'
P 75	12	HDPE	0.39%	433.66'	433.71'
P 76	12	HDPE	0.40%	433.97'	433.86'
P 77	12	HDPE	0.40%	433.17'	433.33'
P 78	12	HDPE	0.40%	433.95'	433.86'
P 79	36	HDPE	0.29%	425.93'	425.45'
P 80	8	HDPE	1.87%	434.94'	434.39'
P 81	12	HDPE	0.42%	432.73'	432.54'
P 82	12	HDPE	0.34%	432.48'	432.34'
P 84	12	HDPE	0.41%	434.04'	433.99'
P 85	8	HDPE	3.24%	432.74'	433.21'
P 86	12	HDPE	0.40%	433.79'	433.67'

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STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

SUMMARY TABLES (2 OF 2)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U9	– –

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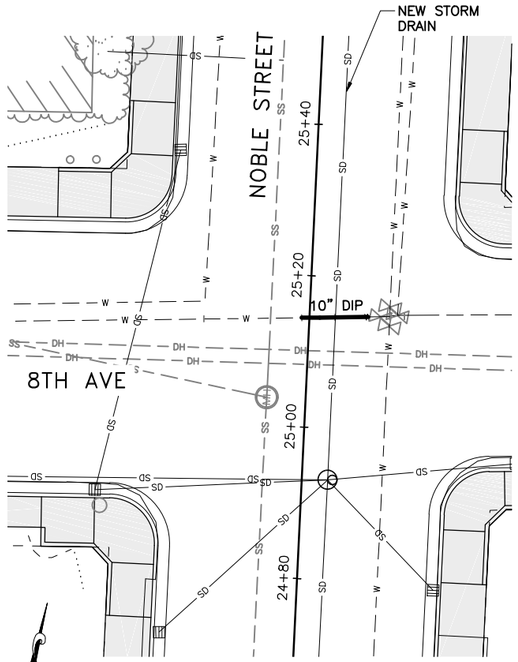
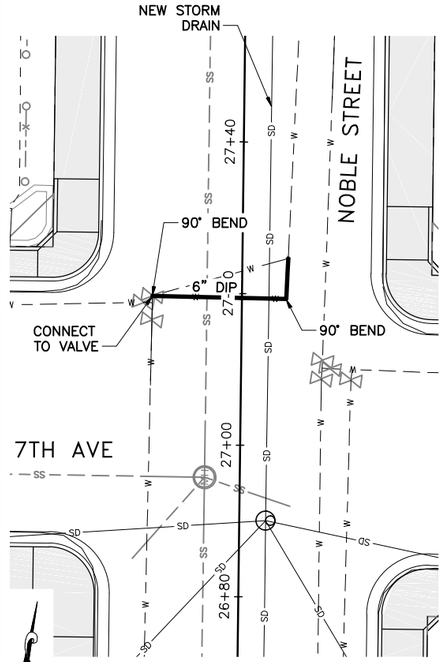
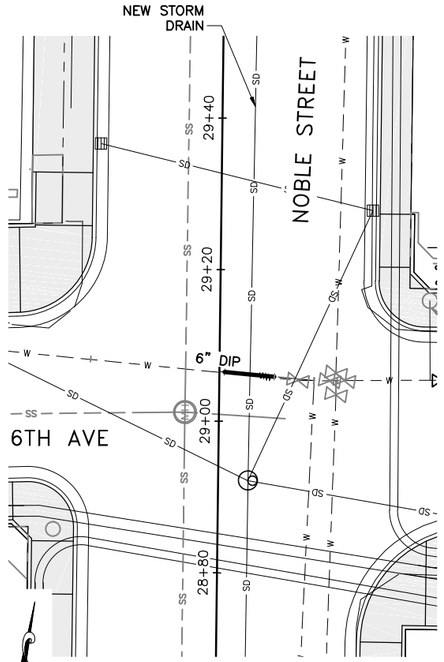


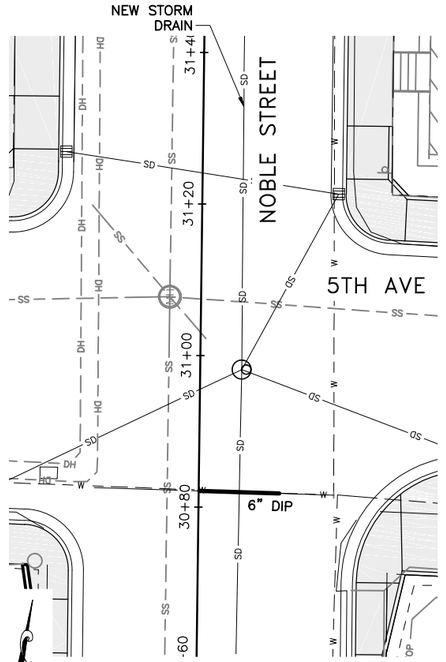
WATER RELOCATION 25+15



WATER RELOCATION 27+24



WATER RELOCATION 29+06



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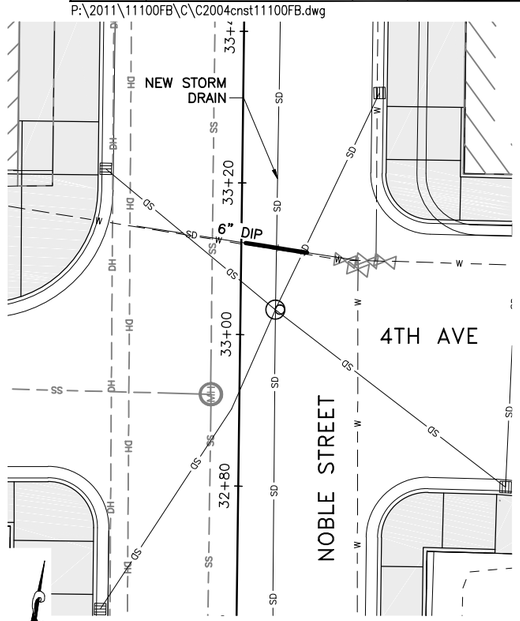
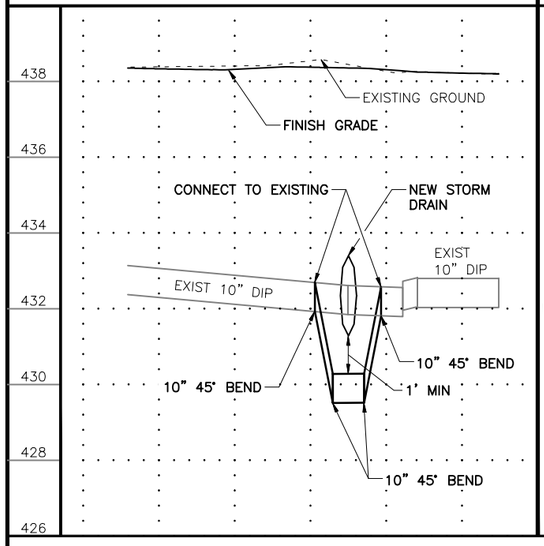
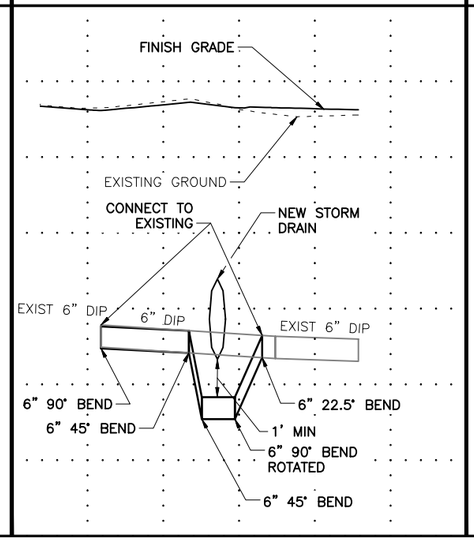
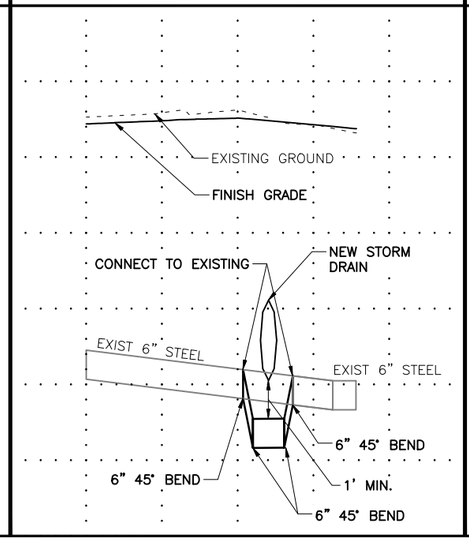
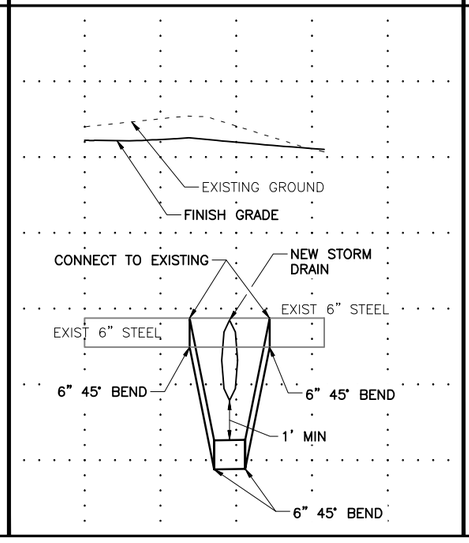


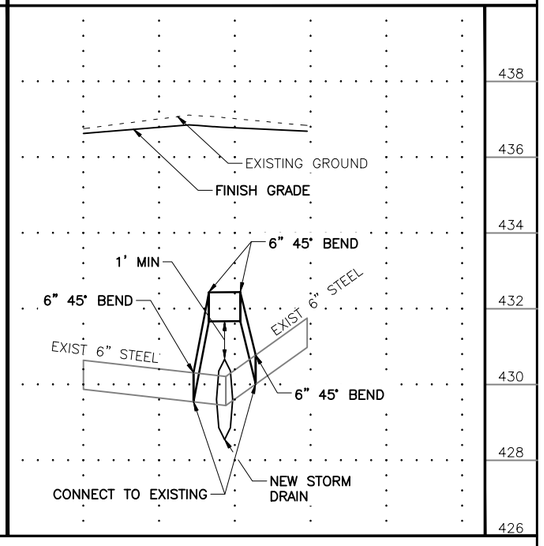
WATER RELOCATION 33+11











NOTES:

1. DEPTH OF EXISTING PIPE SHOWN IS APPROXIMATE.
2. CONSTRUCT CROSSINGS PER UTILITY SERVICES OF ALASKA STANDARD DRAWING WD2.
3. DEMO'D EXISTING STORM DRAIN NOT SHOWN FOR CLARITY.
4. USE THRUST BLOCKS FOR RESTRAINT OF JOINTS AT WATER RELOCATION 29+06, 30+82, 33+11 AND HYDRANT RELOCATION AT 6TH AVE. CONSTRUCT THRUST BLOCKS ACCORDING TO GOLDEN HEART UTILITIES STANDARDS.

WATER RELOCATIONS

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:47 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U10	– –

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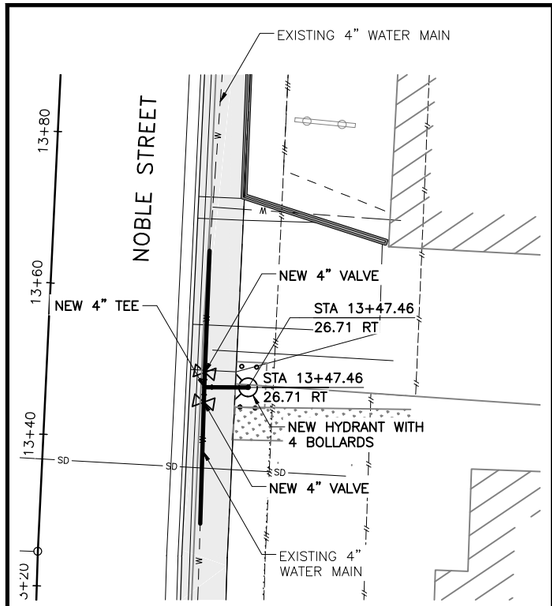
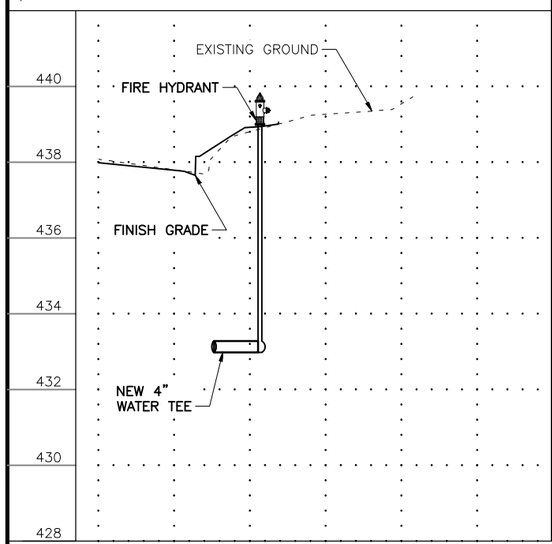
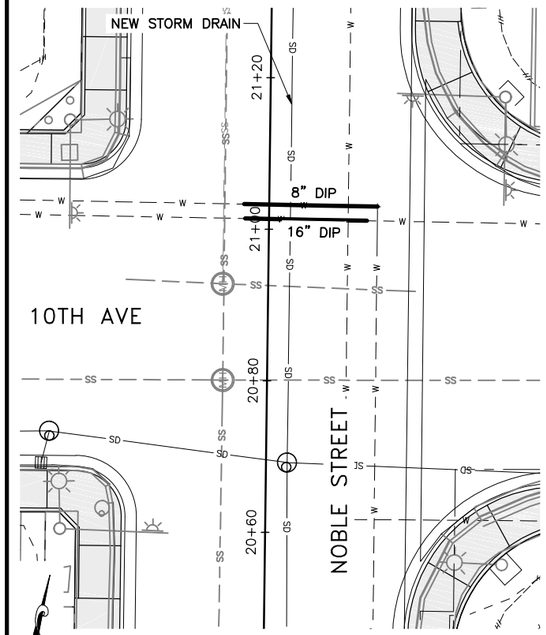


NOTES:

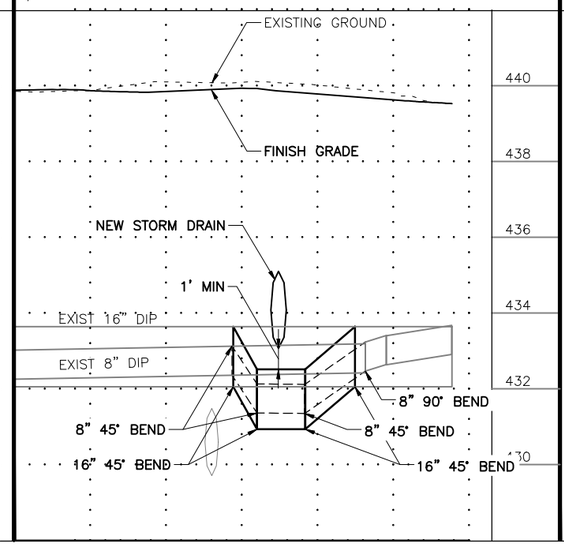
1. INSTALL NEW DUCTILE IRON PIPE & RESTRAINED JOINTS WITHIN 18" EACH SIDE OF TEE.

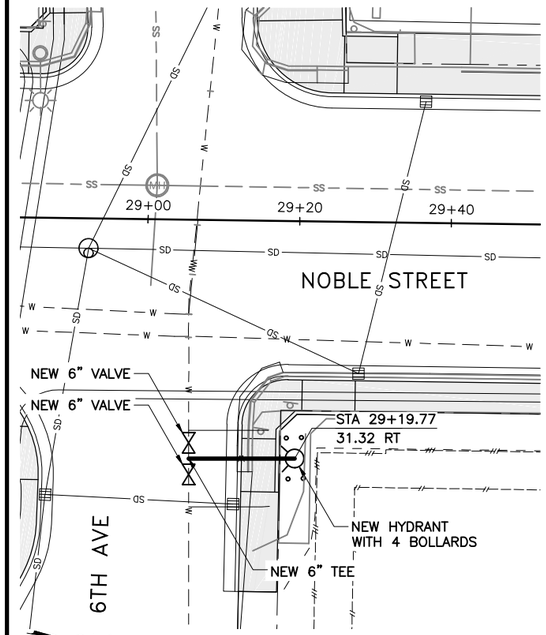
FIRE HYDRANT RELOCATION 13+47



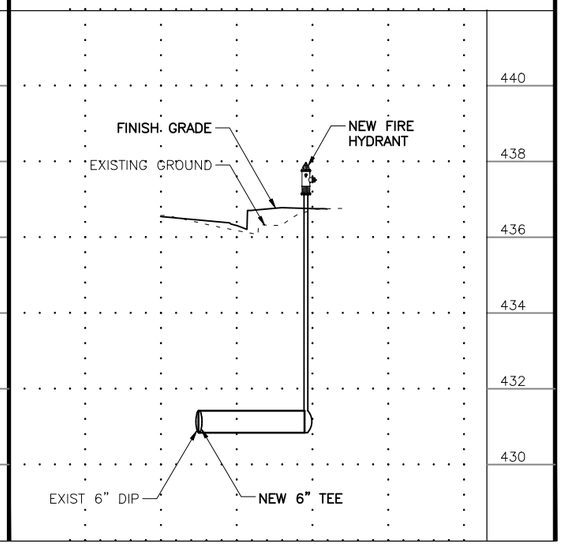


WATER RELOCATION 21+02





FIRE HYDRANT RELOCATION 6TH AVENUE



NOTES:

1. DEPTH OF EXISTING PIPE SHOWN IS APPROXIMATE.
2. CONSTRUCT CROSSINGS PER UTILITY SERVICES OF ALASKA STANDARD DRAWING WD2.
3. DEMO'D EXISTING STORM DRAIN NOT SHOWN FOR CLARITY.
4. USE THRUST BLOCKS FOR RESTRAINT OF JOINTS AT WATER RELOCATION 29+06, 30+82, 33+11 AND HYDRANT RELOCATION AT 6TH AVE. CONSTRUCT THRUST BLOCKS ACCORDING TO GOLDEN HEART UTILITIES STANDARDS.

UTILITY NOTES:

1. WORK IS REQUIRED UNDER EXISTING OVERHEAD CABLES. PROTECT EQUIPMENT AND PERSONNEL AS REQUIRED SUBSIDIARY TO THOSE WORK ITEMS.
2. VERIFY ELEVATION OF EXISTING STORM DRAIN CONNECTION POINT 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(1).
3. ALL ACCESS FRAMES & COVERS/LIDS IN ASPHALT SHALL BE INSTALLED TO GRADE BEFORE ASPHALT IS INSTALLED. NO CUTTING OUT ASPHALT SHALL BE ALLOWED WITHOUT APPROVAL OF THE ENGINEER.
4. FIELD STAKE ALL STORM DRAIN LOCATIONS FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION.
5. MAINTAIN EXISTING UTILITY CUSTOMER SERVICE EXCEPT MAXIMUM 4 HOUR OUTAGE FOR NEW MAIN OR SERVICE RECONNECTIONS. PUBLIC NOTICE REQUIRED.
6. 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.
7. SEWER SERVICE RECONNECTIONS MAY REQUIRE GRADE CHANGES TO AVOID CONFLICT WITH STORM DRAIN. PAYMENT FOR THIS WORK IS SUBSIDIARY TO SEWER SERVICE CONNECTIONS.
8. 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 BID ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES THAT RESULT FROM OUTAGES BEYOND THE PRESCRIBED PERIOD.
9. PAYMENT FOR ALL SHORING, BRACING, TRENCH BOXES, ETC. TO PROTECT BUILDINGS, TRAFFIC, AND PERSONS SHALL BE SUBSIDIARY TO THE STRUCTURE BEING INSTALLED.
10. NUMEROUS UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND GET LOCATES PRIOR TO ANY EXCAVATION.
11. THE DEPTH OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON AVAILABLE INFORMATION FROM LIMITED SURVEY AND AS BUILT DRAWINGS AND ARE APPROXIMATE ONLY. CONTRACTOR SHALL DETERMINE ACTUAL DEPTH PRIOR TO INSTALLING NEW UTILITIES.
12. PROTECT, OR REMOVE AND REPLACE IN SAME LOCATION OR TO THE SIDE OF ROADWAY. EXISTING MARKER POSTS FOR UTILITIES. THIS IS SUBSIDIARY TO OTHER WORK ITEMS.
13. ALL SANITARY SEWER AND WATER WORK SHALL COMPLY WITH THE LATEST EDITION OF GOLDEN HEART UTILITIES "STANDARDS OF DESIGN AND CONSTRUCTION".
14. INSULATING PIPES, INLETS, MANHOLES, FITTINGS, APPURTENANCES AND CROSSING UTILITIES AS INDICATED ON THE PLANS WILL NOT BE MEASURED FOR PAYMENT. THIS WORK IS SUBSIDIARY TO ALL UTILITY AND STORM DRAIN INSTALLATIONS.
15. SEE INDIVIDUAL SHEETS FOR ADDITIONAL NOTES.

FIRE HYDRANT & WATER RELOCATION

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER

Friday, December 12, 2014, 12:47 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U11	- -

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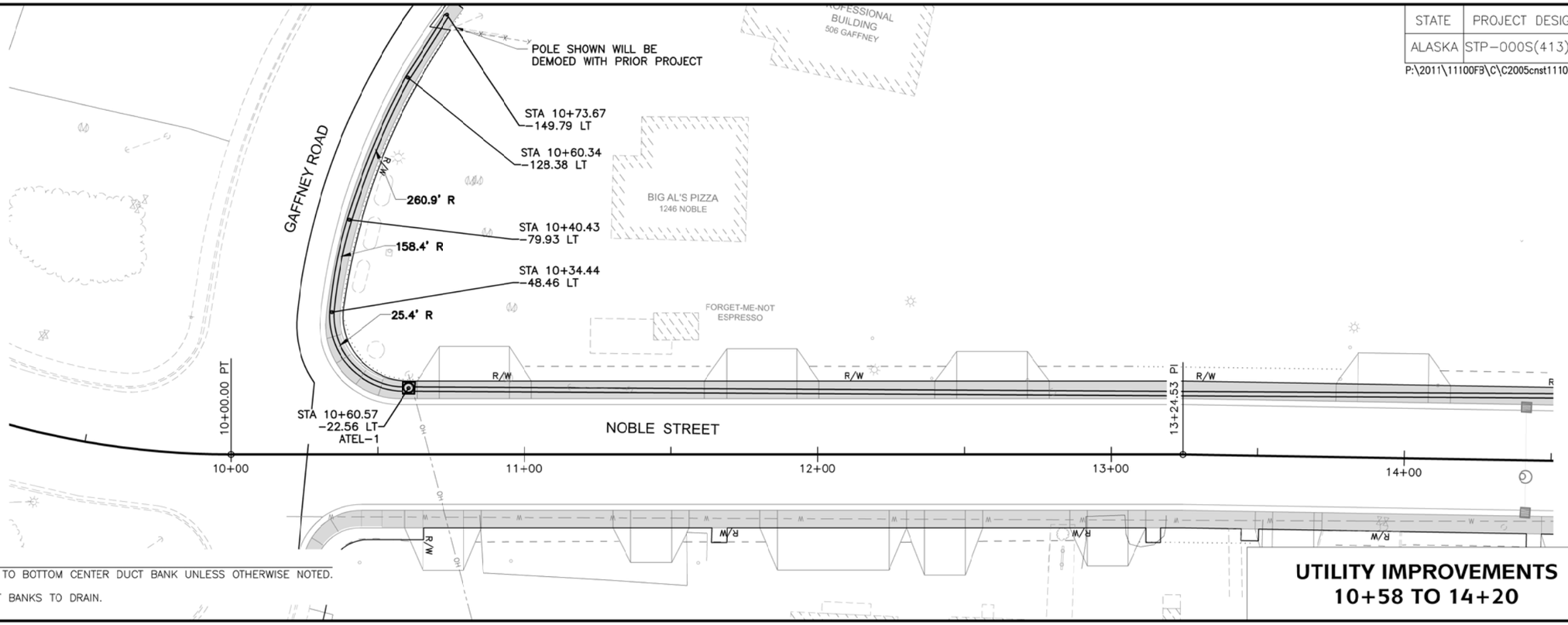

NOTES:

1. ELEVATIONS ARE TO BOTTOM CENTER DUCT BANK UNLESS OTHERWISE NOTED.
2. GRADE ALL DUCT BANKS TO DRAIN.

UTILITY IMPROVEMENTS
10+58 TO 14+20

STATE OF ALASKA
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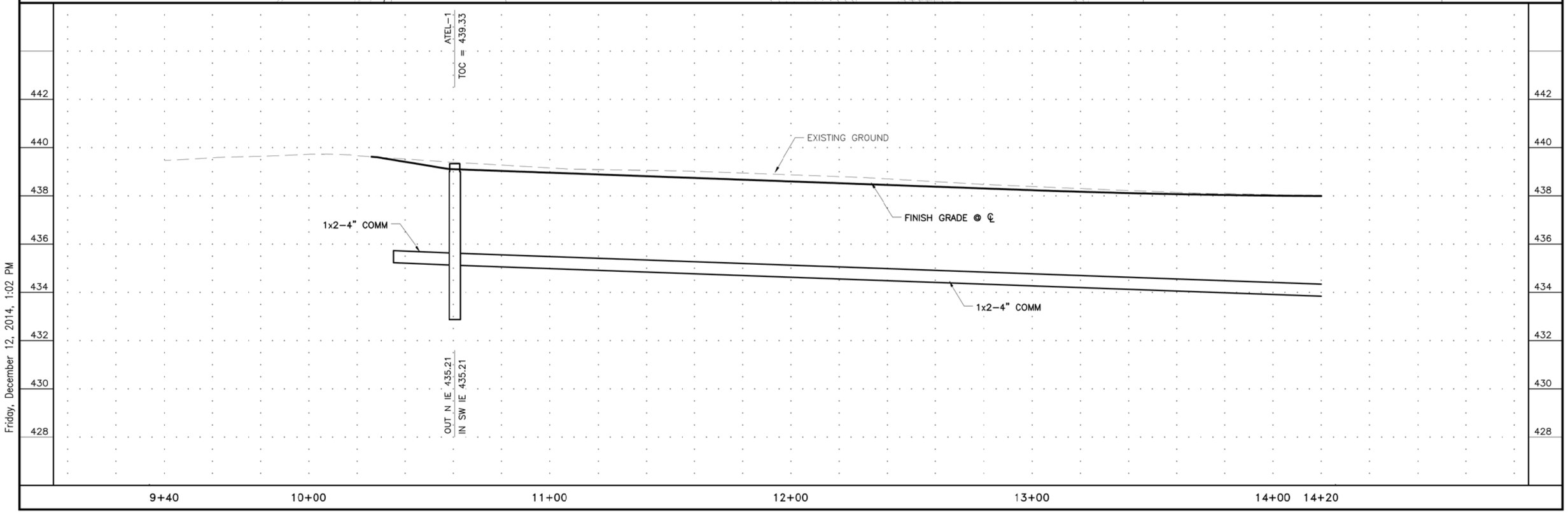

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U12	– –

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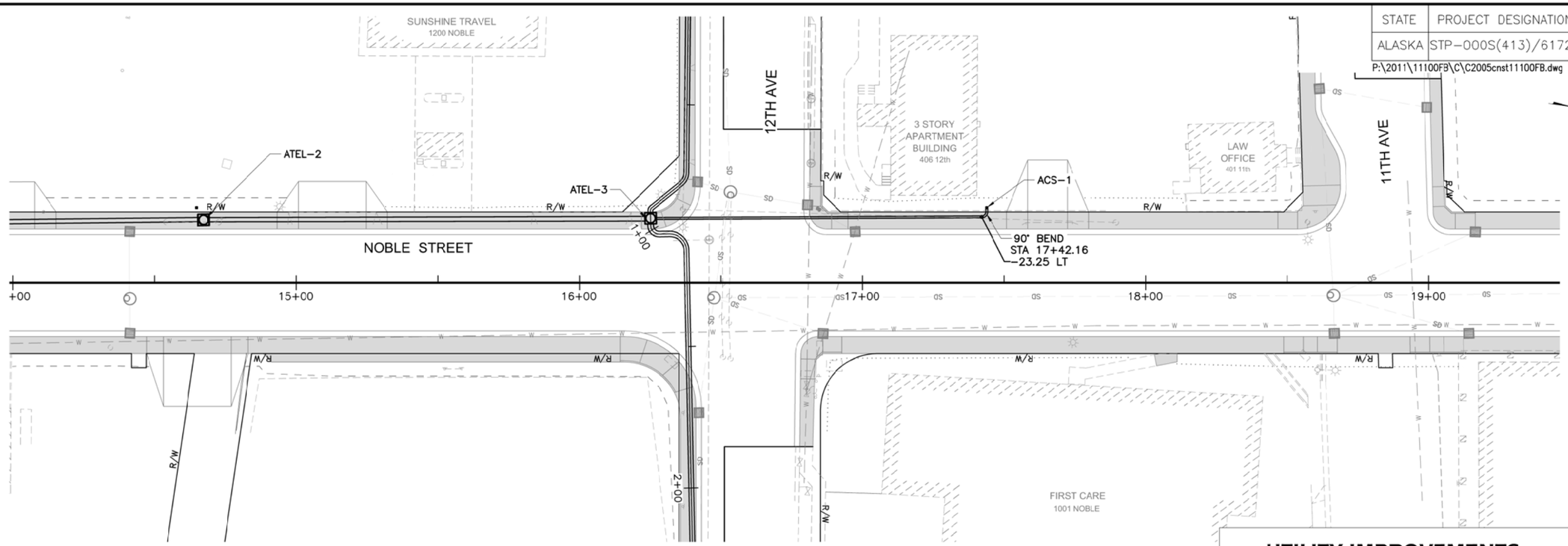

UTILITY IMPROVEMENTS
14+20 TO 19+40

STATE OF ALASKA
49 TH
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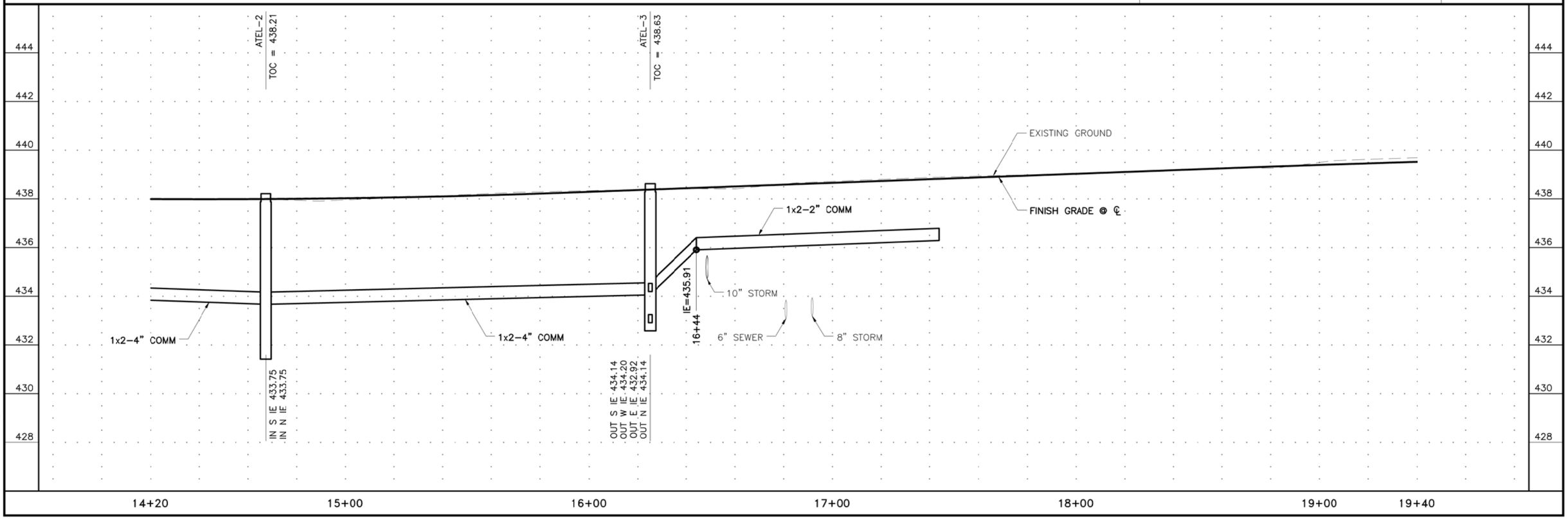
REGISTERED PROFESSIONAL ENGINEER



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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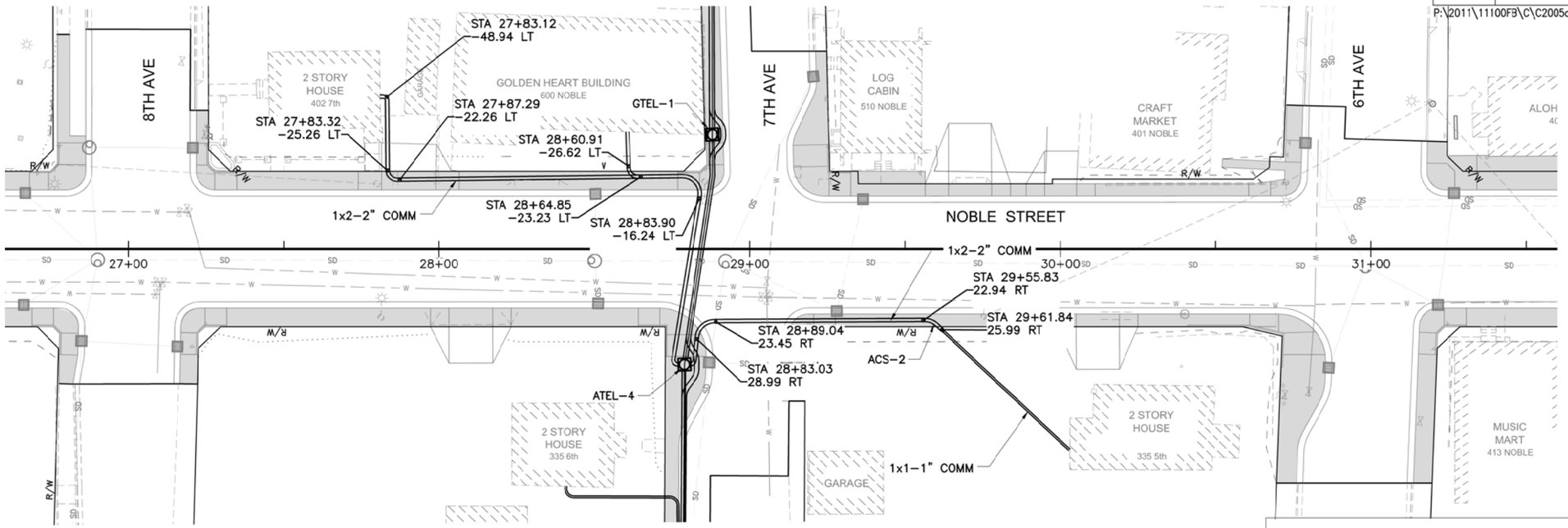
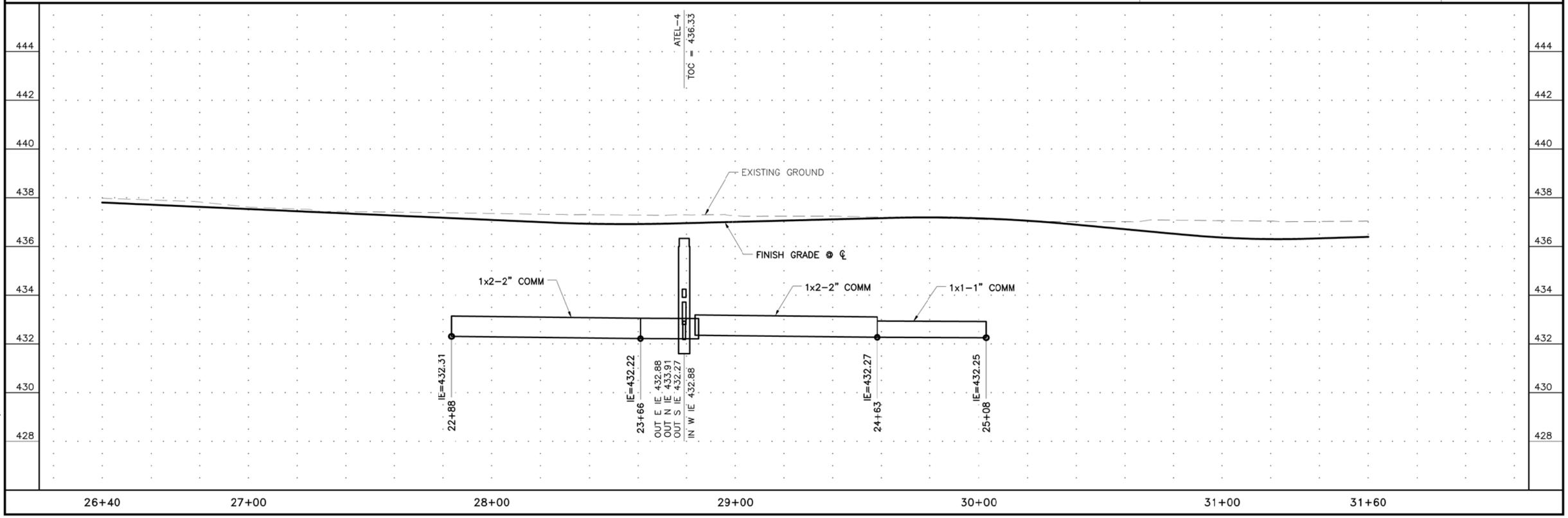


UTILITY IMPROVEMENTS
26+60 TO 31+60

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER



Friday, December 12, 2014, 1:10 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U14	– –

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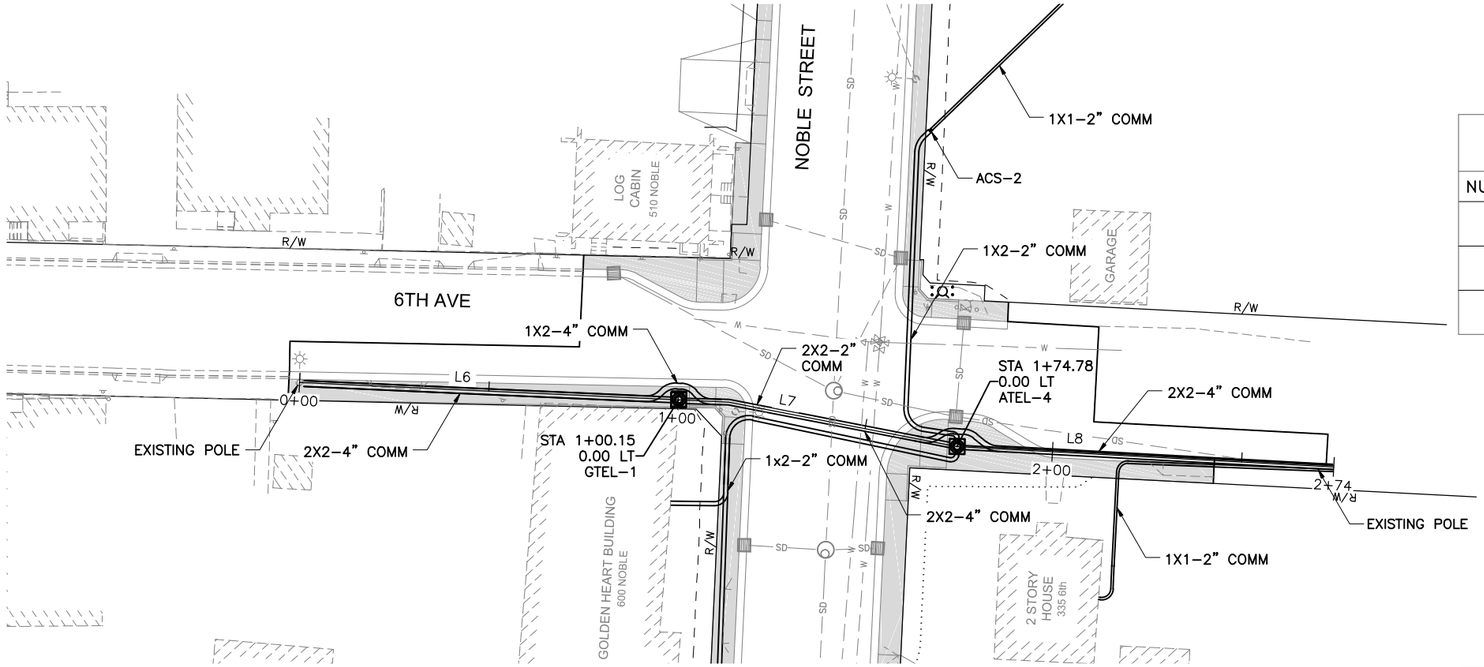


6TH AVE DUCT BANK

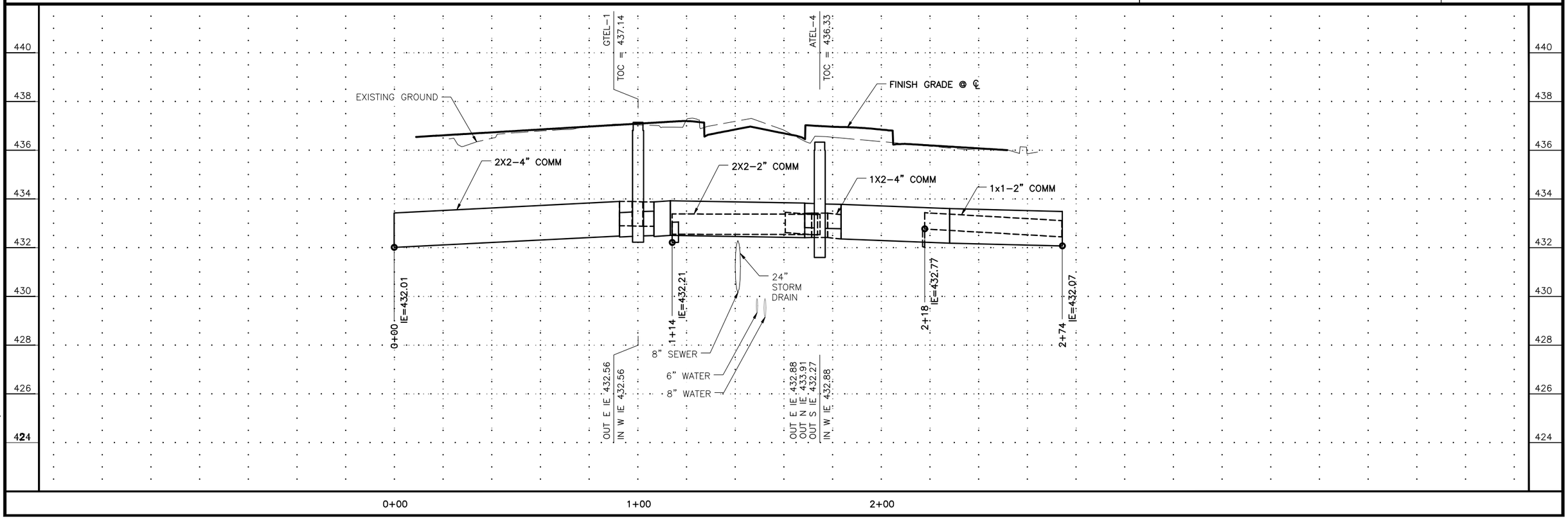
NUMBER	LENGTH	BEARING	START	END	RADIUS
L6	113.393	N81° 36' 52.58"E	N: 19937.4144 E: 7064.5088	N: 19953.9506 E: 7176.6897	
L7	61.382	N89° 59' 34.20"E	N: 19953.9506 E: 7176.6897	N: 19953.9583 E: 7238.0717	
L8	99.599	N82° 07' 23.98"E	N: 19953.9583 E: 7238.0717	N: 19967.6075 E: 7336.7313	

NOTES:

1. VAULTS AND DUCTS STATIONED OFF "6TH AVE DUCT BANK" REFERENCE LINE. SEE TABLE FOR LAYOUT.

UTILITY IMPROVEMENTS
6TH AVE

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER



Friday, December 12, 2014, 1:15 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U15	– –

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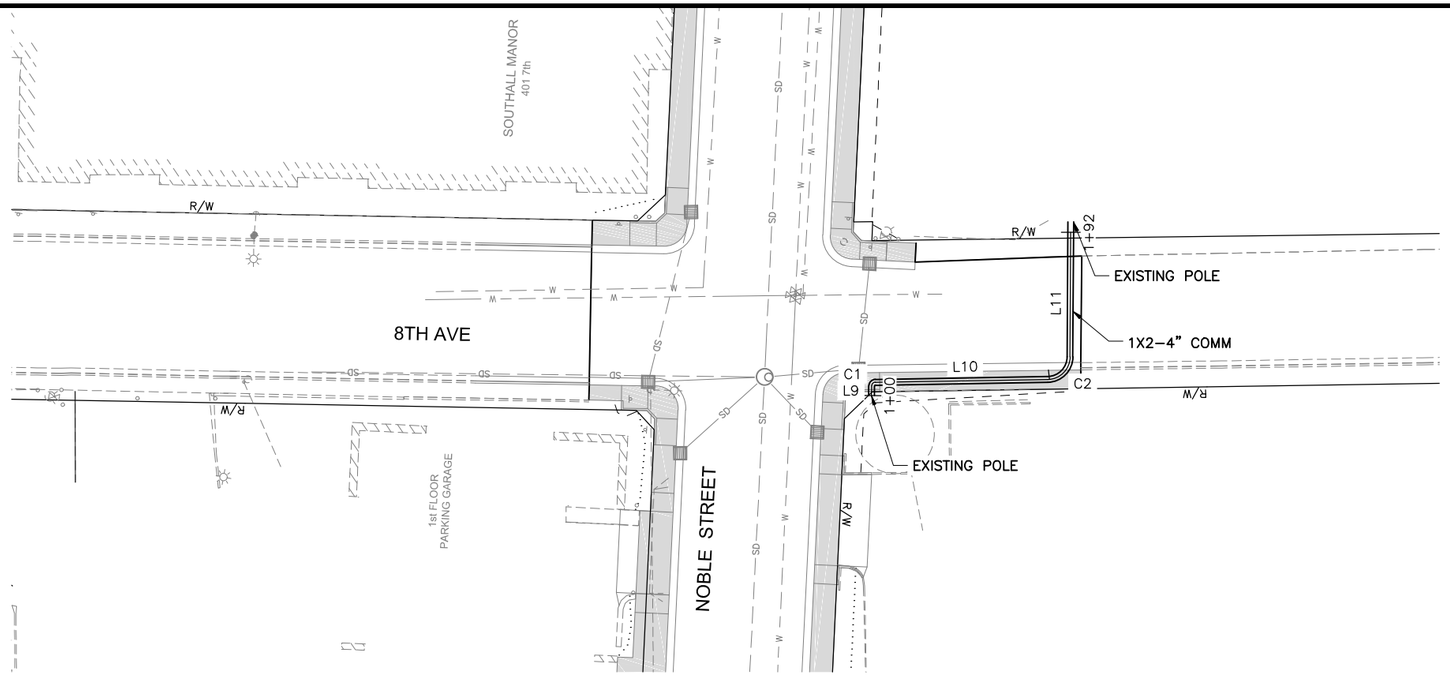


NOTES:

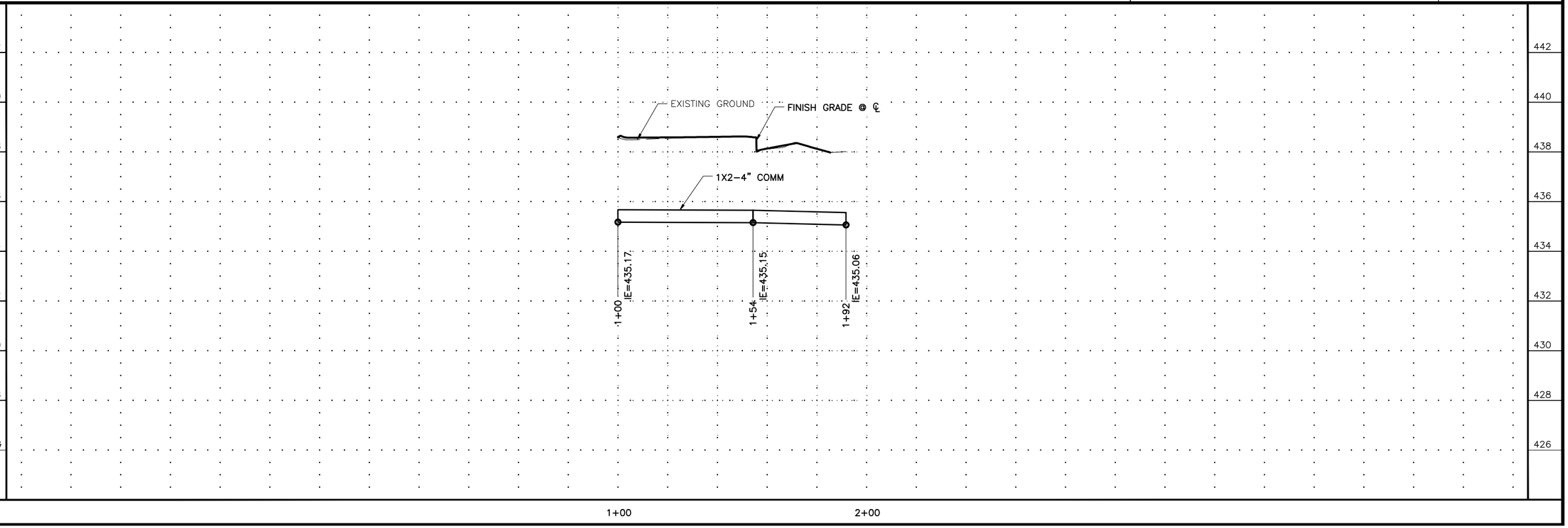
1. DUCT BANK STATIONED OFF "8TH AVE DUCT BANK" REFERENCE LINE. SEE TABLE FOR LAYOUT.

8TH AVE DUCT BANK

NUMBER	LENGTH	BEARING	START	END	RADIUS
L9	2.470	N10° 37' 16.63"W	N: 19567.8420 E: 7288.8980	N: 19570.2699 E: 7288.4427	
C1	1.547	N33° 41' 53.80"E	N: 19570.2699 E: 7288.4427	N: 19571.4325 E: 7289.2180	1.000
L10	45.496	N78° 01' 04.23"E	N: 19571.4325 E: 7289.2180	N: 19580.8777 E: 7333.7225	
C2	9.287	N33° 40' 33.07"E	N: 19580.8777 E: 7333.7225	N: 19587.8575 E: 7338.3731	6.000
L11	32.858	N10° 39' 58.08"W	N: 19587.8575 E: 7338.3731	N: 19620.1477 E: 7332.2916	

STATE OF ALASKA
49 TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

UTILITY IMPROVEMENTS
8TH AVE



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U16	– –

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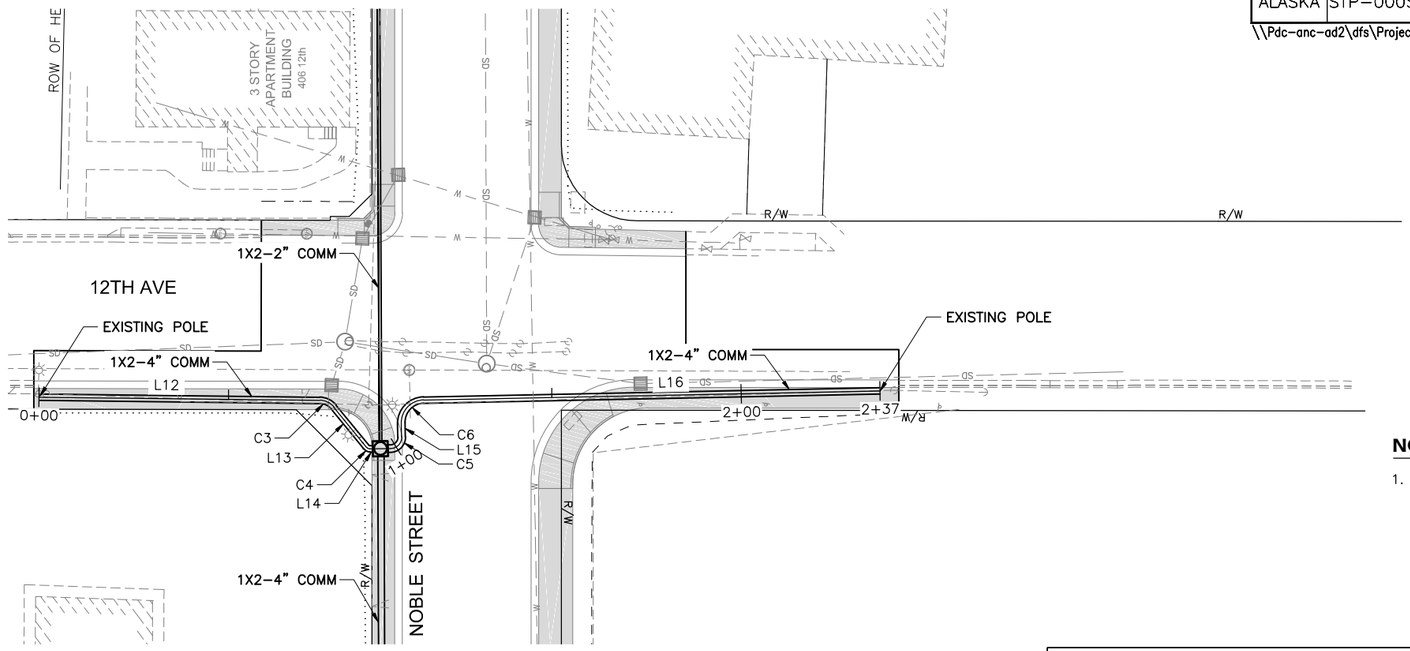
12TH AVE DUCT BANK

NUMBER	LENGTH	BEARING	START	END	RADIUS
L12	73.985	N82° 21' 29.05"E	N: 18704.9435 E: 7268.2917	N: 18714.7822 E: 7341.6195	
C3	4.362	S72° 38' 52.13"E	N: 18714.7822 E: 7341.6195	N: 18713.5220 E: 7345.6525	5.000
L13	13.727	S47° 39' 13.30"E	N: 18713.5220 E: 7345.6525	N: 18704.2754 E: 7355.7979	
C4	0.905	S73° 34' 02.38"E	N: 18704.2754 E: 7355.7979	N: 18704.0281 E: 7356.6362	1.000
L14	5.436	N80° 31' 08.53"E	N: 18704.0281 E: 7356.6362	N: 18704.9235 E: 7361.9978	
C5	4.710	N35° 32' 24.19"E	N: 18704.9235 E: 7361.9978	N: 18708.3745 E: 7364.4630	3.000
L15	3.557	N9° 26' 20.16"W	N: 18708.3745 E: 7364.4630	N: 18711.8837 E: 7363.8796	
C6	9.425	N35° 33' 39.70"E	N: 18711.8837 E: 7363.8796	N: 18718.7865 E: 7368.8144	6.000
L16	120.526	N80° 33' 39.56"E	N: 18718.7865 E: 7368.8144	N: 18738.5524 E: 7487.7085	

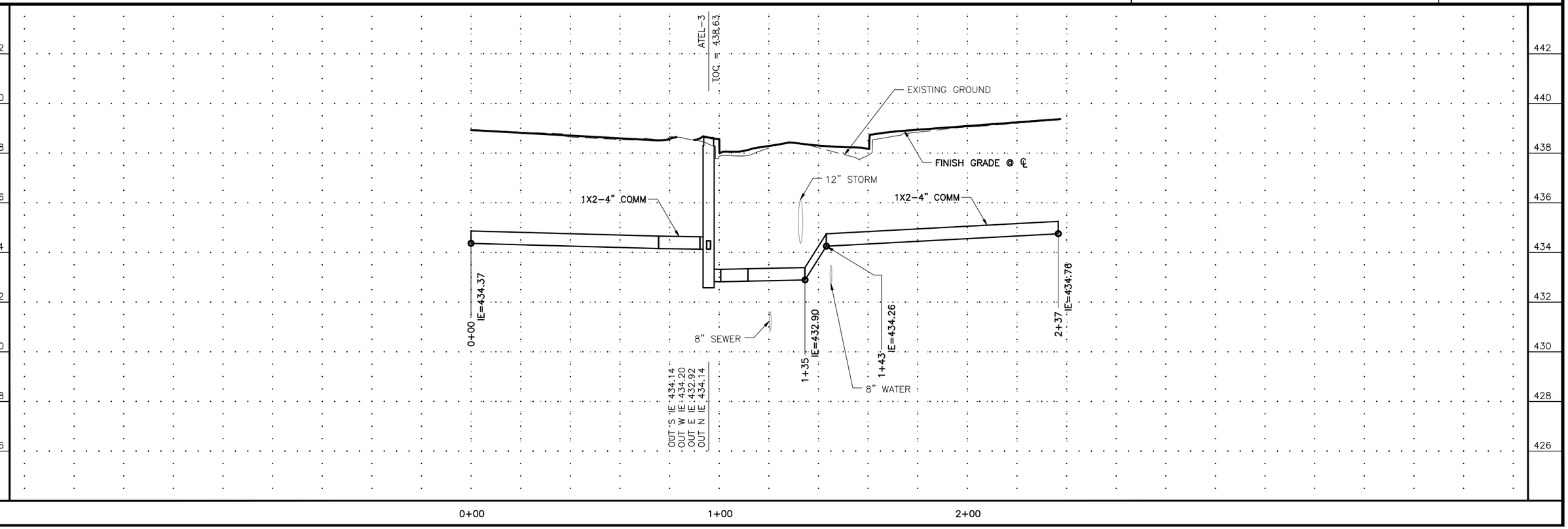


NOTES:

1. VAULTS AND DUCTS STATIONED OFF "12TH AVE DUCT BANK" REFERENCE LINE. SEE TABLE FOR LAYOUT.

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
CE12840
REGISTERED PROFESSIONAL ENGINEER

UTILITY IMPROVEMENTS 12TH AVE



Friday, December 12, 2014, 1:16 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U17	– –

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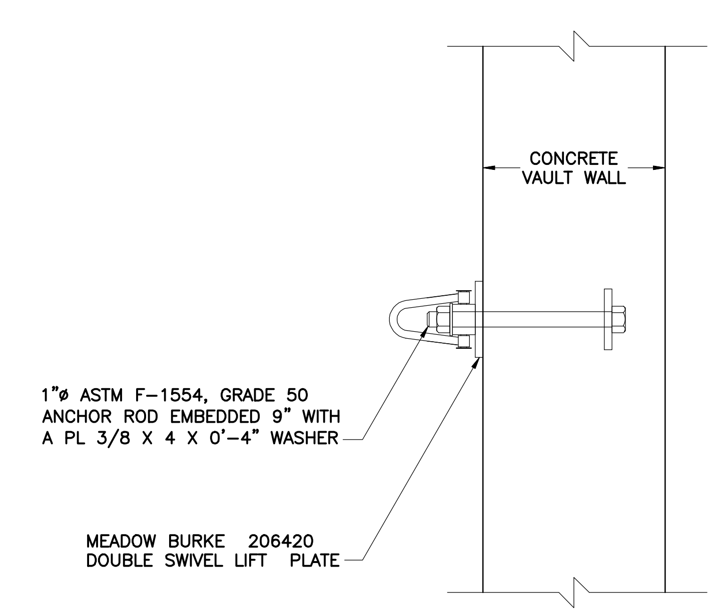
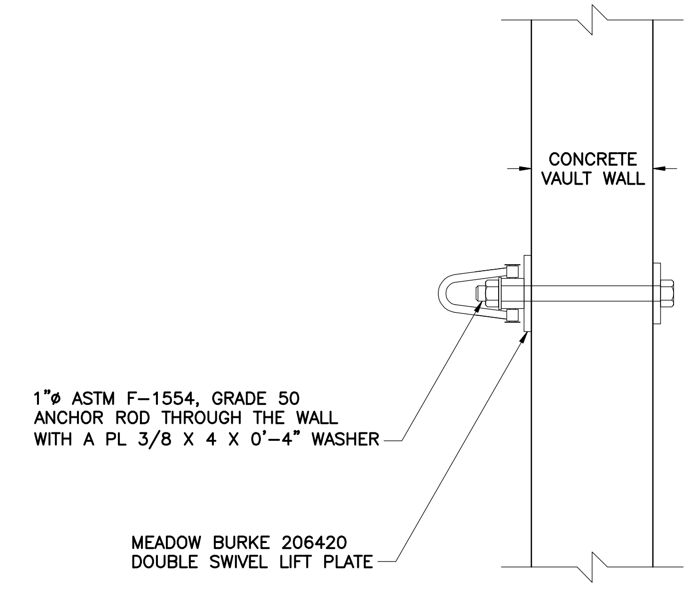
SHEET NOTES:

1. SIDEWALK
2. BACK OF SIDEWALK
3. TOP BACK OF CURB
4. FACE OF CURB/CURB FLOW LINE
5. LIP OF GUTTER/EDGE OF PAVEMENT
6. VAULT STRUCTURE
7. MANHOLE COVER: ADJUST RIM ELEVATION USING GROUT AND ADJUSTING RINGS.
8. PRECAST CONCRETE GRADE RING: AS NEEDED
9. VAULT LID
10. VERTICAL 16-HOLE RACK MOUNTED TO WALL OR "C" CHANNEL WITH CABLE RACK SUPPORTS. TWO (2) PER WALL. CABLE RACK HOOK NOT SHOWN FOR CLARITY.
11. GROUT TO MATCH SIDEWALK CROSS SLOPE.
12. DUCT BANK
13. CONDUITS
14. 3/4"x10' GROUND ROD
15. PULL EYE (OR ALTERNATE DESIGN) AS APPROVED: SEE DETAIL 2/6.061D
16. 6"ø SLEEVE
17. 12" DIA. SUMP PAN WITH COVER PLACED DIRECTLY UNDER ACCESS OPENING



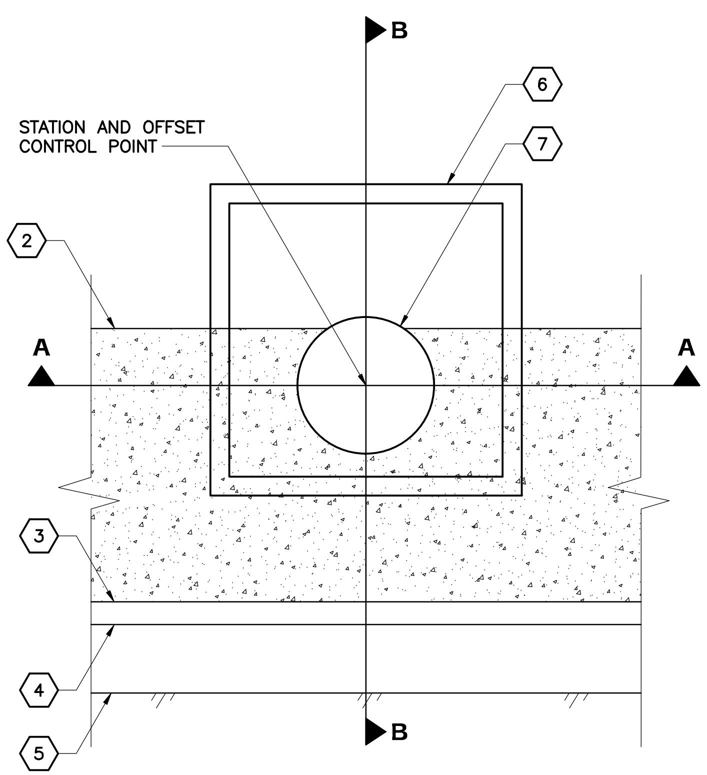
FOR WALLS 12" THICK OR MORE



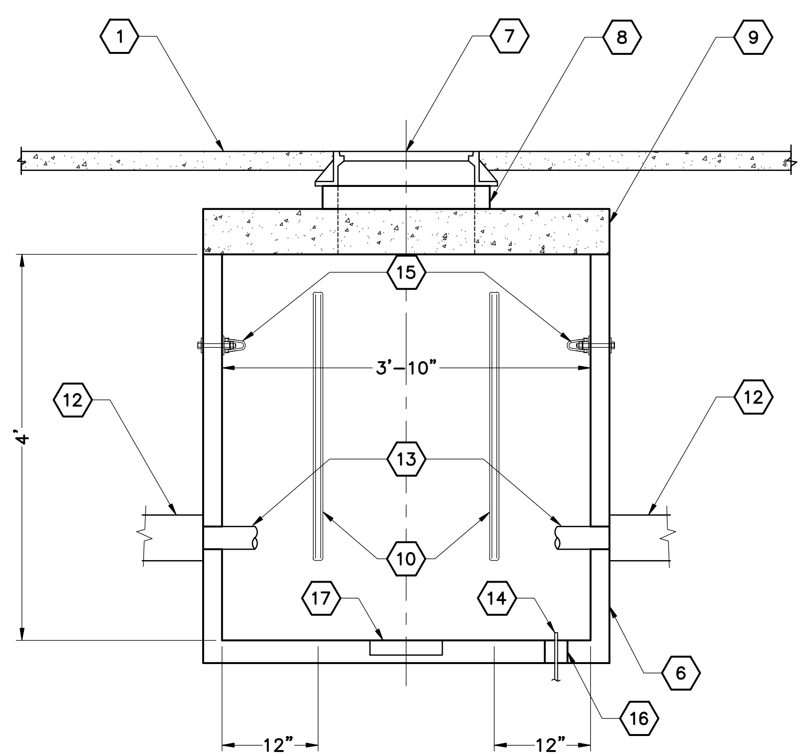
FOR WALLS LESS THAN 12" THICK

DETAIL: PULL EYE

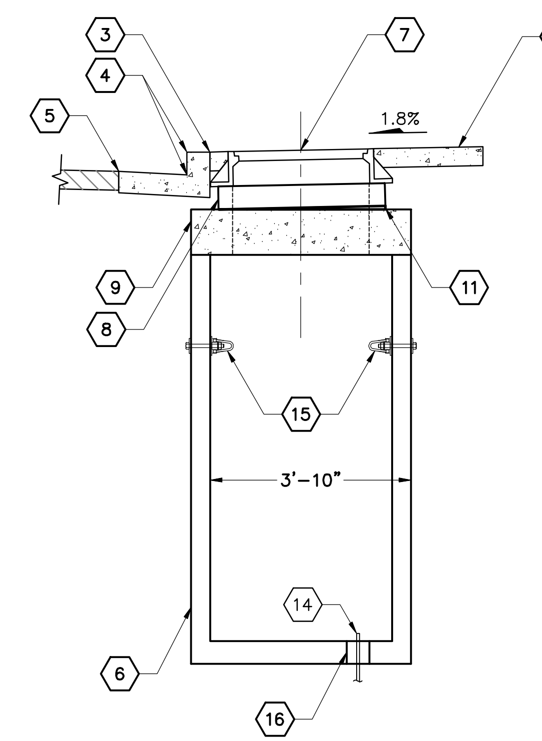
NTS



TYPICAL TOP VIEW



SECTION A-A



SECTION B-B

DETAIL: COMM VAULT

NTS

GENERAL NOTE:
1. ALL INTERIOR METAL APPURTENANCES SHALL BE BONDED TO GROUND.
2. FAIRBANKS PRECAST AND REBAR VAULT MODEL 444 VAULT

UTILITIES AND IMPROVEMENTS
COMM VAULT DETAILS (1 OF 2)

STATE OF ALASKA 49TH ANNE MARIE ERVICE NO. CE12840 REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U18	– –

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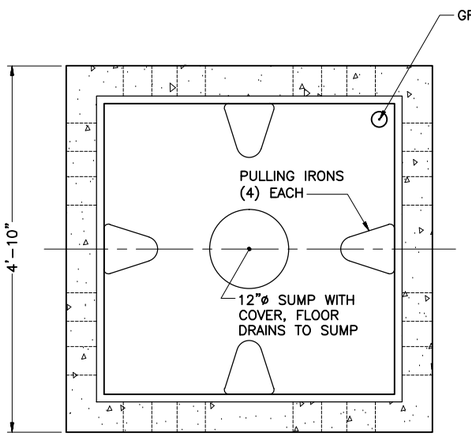
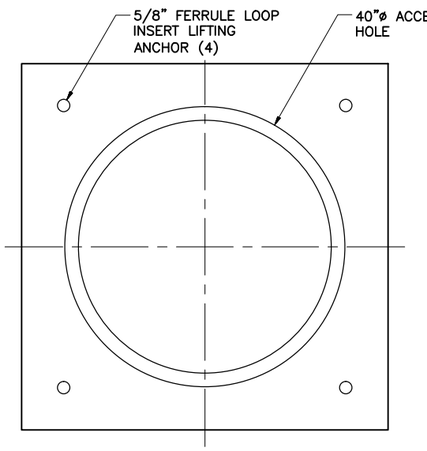
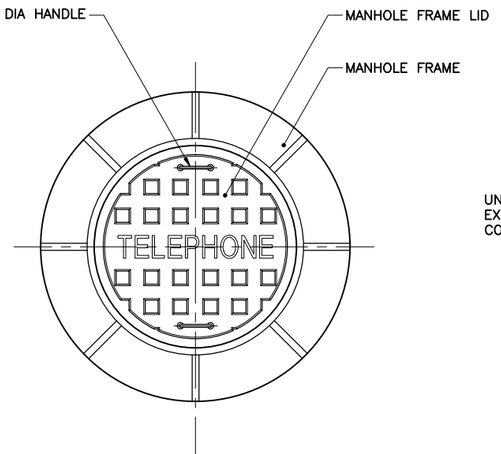


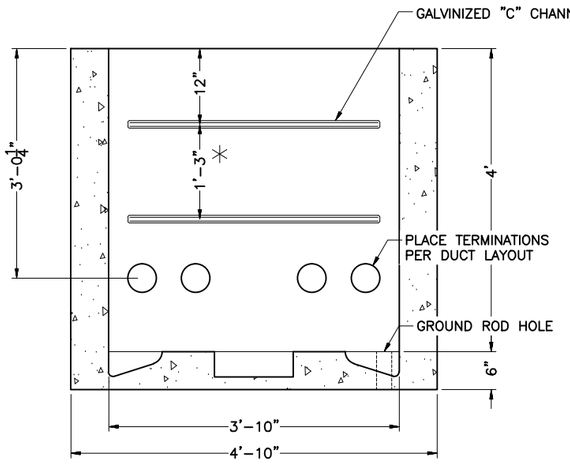
PLAN VIEW (WITHOUT LID)



PLAN VIEW



PLAN VIEW

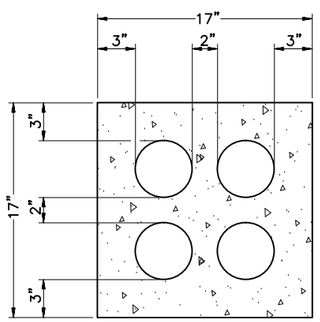


✳ TO MATCH VERTICAL RACK SUPPORT SPACING

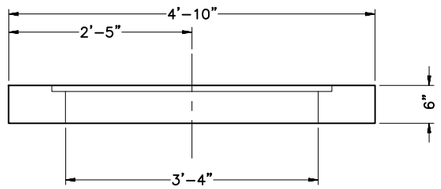
SECTION VIEW (WITHOUT LID)

DETAIL: VAULT-PLAN & CENTERLINE SECTION VIEW

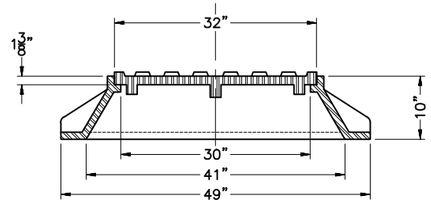
NTS



2x2-4" COMM DUCTBANK



SECTION VIEW



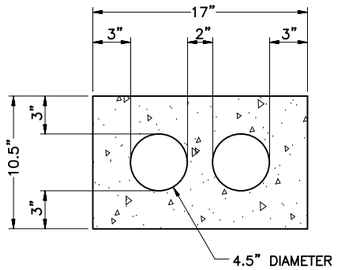
SECTION VIEW

DETAIL: VAULT TOP-PLAN & CENTERLINE SECTION VIEW

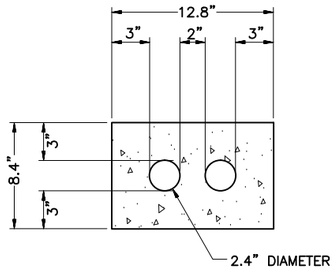
NTS

DETAIL: ACCESS MANHOLE-PLAN & CENTERLINE SECTION VIEW

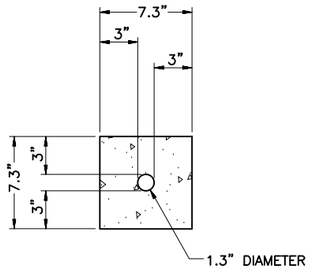
NTS



1x2-4" COMM DUCTBANK



1x2-2" COMM DUCTBANK

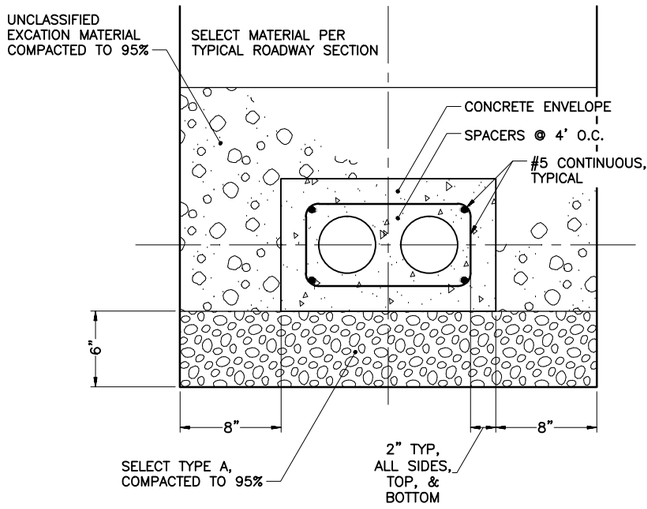


1x1-1" COMM DUCTBANK

DETAIL NOTE: DUCTS ENVELOPED IN CONCRETE, CLASS A. SEE TYPICAL DUCTBANK SECTION THIS SHEET.

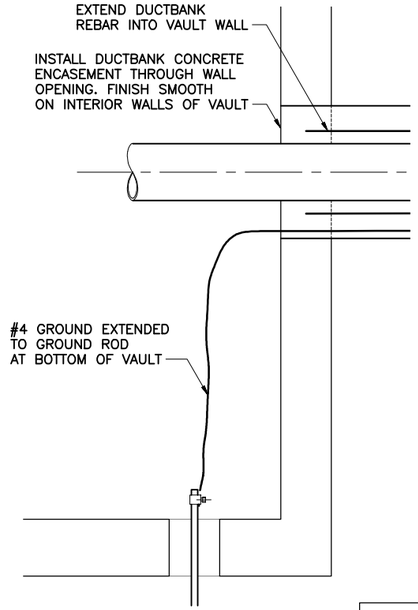
TYPICAL: DUCT BANK CONFIGURATIONS

NTS



TYPICAL SECTION: DUCT BANK

NTS



DETAIL: VAULT PENETRATION

NTS

STATE OF ALASKA 49TH
ANNE MARIE ERVICE
NO. CE12840
REGISTERED PROFESSIONAL ENGINEER

UTILITIES AND IMPROVEMENTS COMM VAULT DETAILS (2 OF 2)

Friday, December 12, 2014, 12:53 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U19	– –

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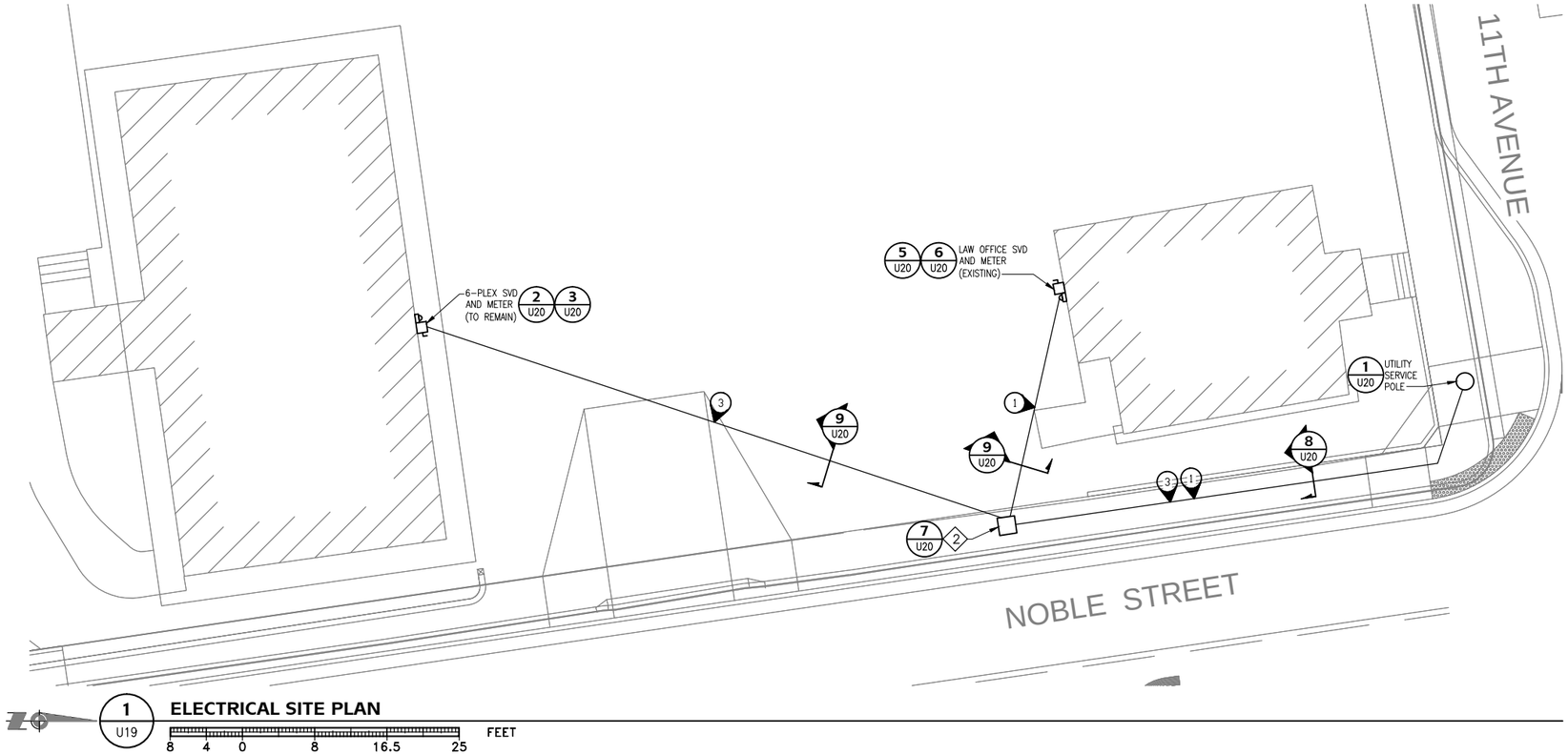

1 U19 **ELECTRICAL SITE PLAN**

8 4 0 8 16.5 25 FEET

GENERAL NOTES

1. ALL CONDUCTORS SHALL BE TYPE XHHW UON.

◇2 PROVIDE TYPE 1 PULL BOX.

POWER SYMBOLS	
□	NONFUSIBLE SWITCH
(XX)	FEEDER NUMBER DESIGNATOR
⏏	METER SOCKET
NOT ALL SYMBOLS ARE USED	

ABBREVIATIONS	
A	AMPERES
AF	AMP FRAME
AFG	ABOVE FINISH GRADE
AIC	AMPS INTERRUPTING CAPACITY
BCU	BARE COPPER WIRE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CNDR	CONDUCTOR
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
E	EAST
EBJ	EQUIPMENT BONDING JUMPER
EGC	EQUIPMENT GROUNDING CONDUCTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND OR GROUNDED
HDPE	HIGH-DENSITY POLYETHYLENE
JB	JUNCTION BOX
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MTD	MOUNTED
MTM	MOLDED CASE THERMAL MAGNETIC BREAKER
P	POLE
PH	PHASE
PRI	PRIMARY
RMC	RIGID METAL CONDUIT (HOT-DIPPED GALVANIZED)
SEC	SECONDARY
SPEC	SPECIFICATION
SVD	SERVICE DISCONNECT
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
V	VOLTS
VA	VOLT AMPERES
W	WATT, WEST or WIRE
XFMR	TRANSFORMER
NOT ALL ABBREVIATIONS ARE USED	

ELECTRICAL SPECIFICATIONS

1. GENERAL REGULATORY REQUIREMENTS
   - 1.1 COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE 2011 EDITION; NECA 1, STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION; AND NATIONAL ELECTRICAL SAFETY CODE.
   - 1.2 ELECTRICAL COMPONENTS, DEVICES, ASSEMBLIES, AND ACCESSORIES ARE REQUIRED TO BE LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
   - 1.3 DELIVER, STORE, PROTECT, AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROTECT PRODUCTS FROM WEATHER.
   - 1.4 ACCEPT PRODUCTS ON SITE IN MANUFACTURER'S PACKAGING. INSPECT FOR DAMAGE. NOTIFY PROJECT MANAGER OF ALL DAMAGED PRODUCTS.
   - 1.5 THE CONTRACT DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL.
   - 1.6 DRAWINGS SHOW THE GENERAL LOCATIONS OF THE ELECTRICAL FEATURES ONLY, UNLESS OTHERWISE INDICATED. MAKE MINOR RELOCATIONS AS REQUIRED FOR PROJECT CONDITIONS WHEN NECESSARY TO PRESENT SYMMETRICAL APPEARANCE OR TO AVOID INTERFERENCE WITH OTHER INSTALLATIONS.
   - 1.7 REVIEW AND COORDINATE THIS WORK WITH ALL ASSOCIATED CIVIL WORK AND ALL OTHER DRAWINGS AND SPECIFICATIONS. ADJUST THE WORK AS REQUIRED TO COORDINATE WITH OTHER WORK AND BE COMPATIBLE WITH CONDITIONS.
   - 1.8 WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, FEDERAL, AND OSHA SAFETY REQUIREMENTS.
   - 1.9 CONTRACTOR COORDINATION
     - 1.9.1 CONTRACTOR SHALL COORDINATE START-UP AND ENERGIZING OF ALL ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
     - 1.9.2 CONTRACTOR SHALL COORDINATE POWER OUTAGES AND DE-ENERGIZING OF ALL EXISTING ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
2. SUBMITTALS
   - 2.1 SEE ADOT SPECIFICATION SECTION 106-1.08 FOR SUBMITTAL PROCEDURE.
3. DEMOLITION
   - 3.1 EXISTING ELECTRICAL CONDITIONS BASED ON AS-BUILT DOCUMENTS AND LIMITED FIELD OBSERVATION BY THE ENGINEER. CONTRACTOR SHALL FIELD VERIFY.
   - 3.2 RECONNECT AND LABEL EXISTING BRANCH CIRCUITS NOT BEING REMOVED WHICH PASS THROUGH, OR CONNECT INTO, THE PROJECT AREA.
   - 3.3 ELECTRICAL EQUIPMENT REMOVED AND DEEMED UNUSABLE BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. EQUIPMENT DEEMED USABLE BY THE OWNER SHALL BE DELIVERED WITHOUT DAMAGE TO A LOCATION DESIGNATED BY THE OWNER, UNLESS OTHERWISE INDICATED.
4. CONDUCTORS
   - 4.1 CONDUCTOR MATERIAL: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.
   - 4.2 FIELD QUALITY CONTROL: AFTER INSTALLING CONDUCTORS AND CABLES AND BEFORE ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR UNINTENDED OPENS, SHORTS, AND GROUNDS.
5. GROUNDING AND BONDING
   - 5.1 INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE INDICATED.
   - 5.2 CONNECTORS: LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED, AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.
   - 5.3 GROUND RODS: COPPER-CLAD STEEL; 3/4 INCH BY 10 FEET.
   - 5.4 INSTALLATION: INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE INDICATED, BUT NOT SMALLER THAN NO. 12 AWG.
6. RACEWAY
   - 6.1 RMC: COMPLY WITH ANSI C80.1 AND UL 6, HOT-DIPPED ZINC GALVANIZED.
   - 6.2 RIGID HDPE: TYPE SCHEDULE 40, COMPLY WITH UL 651A.
     - 6.2.1 COLOR DESIGNATION: THREE LONGITUDINALLY CO-EXTRUDED STRIPES SPACED AT APPROXIMATELY EQUAL DISTANCE CIRCUMFERENTIALLY APART.
       - 6.2.1.1 STRIPE COLOR FOR POWER, RED.
   - 6.3 CONTINUOUS HDPE: TYPE SCHEDULE 40, COMPLY WITH UL 651A.
     - 6.3.1 COLOR DESIGNATION: THREE LONGITUDINALLY CO-EXTRUDED STRIPES SPACED AT APPROXIMATELY EQUAL DISTANCE CIRCUMFERENTIALLY APART.
       - 6.3.1.1 STRIPE COLOR FOR POWER, RED.
   - 6.4 FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.
   - 6.5 FITTINGS FOR HDPE: MECHANICAL TYPE.
   - 6.6 INSTALLATION
     - 6.6.1 OUTDOORS: ABOVEGROUND USE RMC AND UNDERGROUND USE RMC UNLESS OTHERWISE INDICATED.
       - 6.6.1.1 UNDERGROUND USE HDPE WHERE INDICATED ON DRAWINGS; THE SWEEPS, ELBOWS, AND ABOVE GRADE CONDUIT FOR CONDUIT RUNS OF HDPE SHALL BE RMC.
     - 6.6.2 COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.
     - 6.6.3 HDPE CONDUIT SHALL BE RUN THROUGH APPROVED RE-ROUNDING AND STRAIGHTENING EQUIPMENT DURING INSTALLATION.
7. ELECTRICITY METERING
   - 7.1 METER SOCKET: NEMA 3R WITH PROVISIONS FOR SEALS.
   - 7.2 SERVICE DISCONNECT: NEMA 3R.
   - 7.3 FIELD QUALITY CONTROL
     - 7.3.1 COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.
     - 7.3.2 HUBS AND RACEWAY FITTINGS SHALL BE OF THE WET LOCATION SEALING TYPE.
8. ENCLOSED CIRCUIT BREAKERS
   - 8.1 GENERAL REQUIREMENTS: COMPLY WITH UL 489, NEMA AB1, AND NEMA AB3, WITH INTERRUPTING CAPACITY TO COMPLY WITH AVAILABLE FAULT CURRENTS.
   - 8.2 ENCLOSURES: NEMA 250, TYPE 3R.
   - 8.3 ALL CONDUCTOR TERMINATIONS SHALL BE LISTED AND LABELED FOR WIRE APPLIED AT 75 DEG C AMPACITY.
   - 8.4 FIELD QUALITY CONTROL: PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

STATE OF ALASKA 49TH
Christopher N. Hodges
EE-10702
REGISTERED PROFESSIONAL ENGINEER

ELECTRICAL LEGEND, SPECIFICATIONS AND SITE PLAN

Friday, December 12, 2014, 1:21 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-000S(413)/61725	2015	U20	– –

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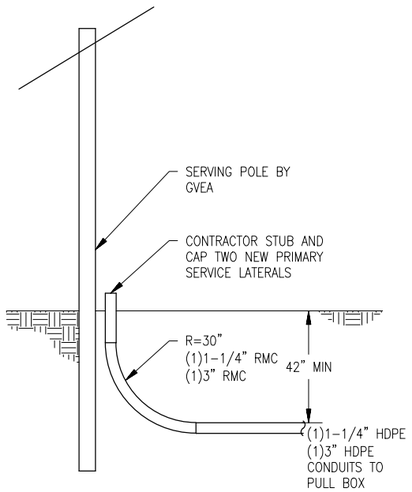
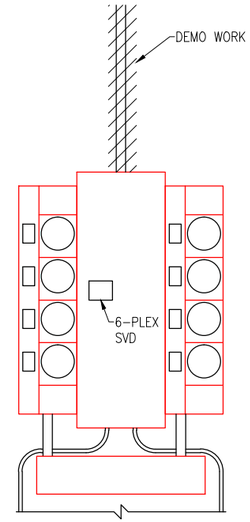
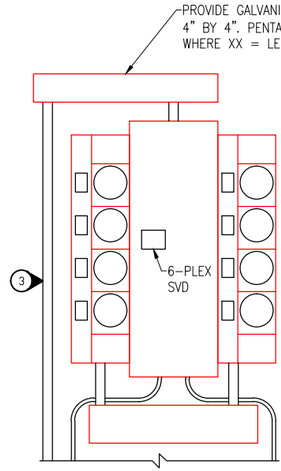


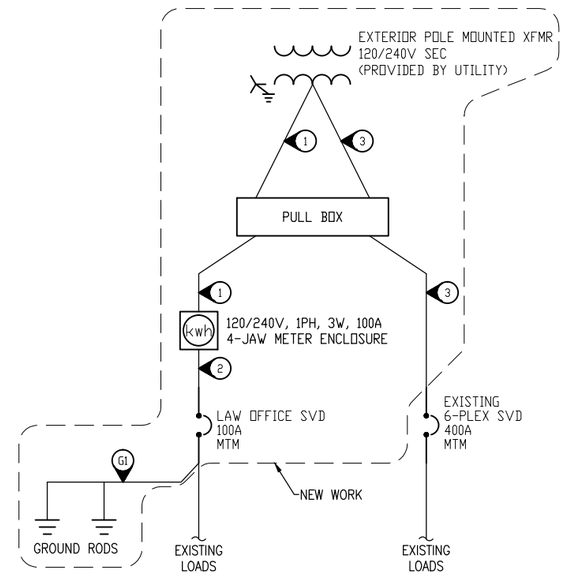
1 U20 CONDUIT INSTALLATION AT GVEA POLE
NTS



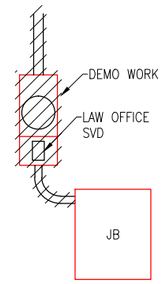
2 U20 DEMO WORK: 6-PLEX SVD
NTS



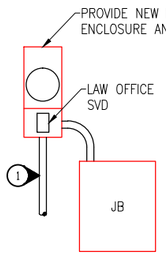
3 U20 NEW WORK: 6-PLEX SVD
NTS



4 U20 ELECTRICAL ONE-LINE DIAGRAM
NTS



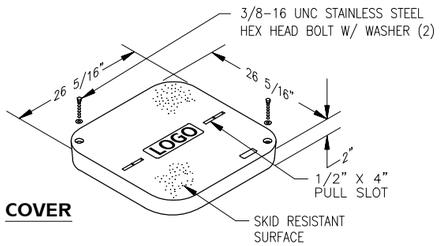
5 U20 DEMO WORK: LAW OFFICE SVD
NTS



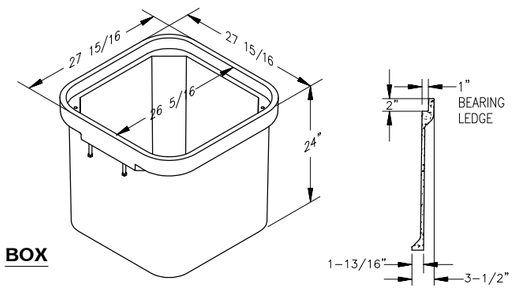
6 U20 NEW WORK: LAW OFFICE SVD
NTS

FEEDER SCHEDULE

NO.	CONDUCTORS	RACEWAY TYPE	REMARKS
1	3 NO. 2 XHHW	1-1/4" RMC 1-1/4" HDPE	UNDERGROUND SERVICE PROVIDE RMC ABOVE GROUND AND FOR SWEEPS; PROVIDE HDPE BELOW GROUND BETWEEN SWEEPS
2	3 NO. 2 XHHW 1 NO. 8 XHHW EBJ	1-1/4" RMC	
3	3 NO. 500 KCMIL XHHW	3" RMC 3" HDPE	UNDERGROUND SERVICE PROVIDE RMC ABOVE GROUND AND FOR SWEEPS; PROVIDE HDPE BELOW GROUND BETWEEN SWEEPS
G1	1 NO. 4 BCU GEC	1/2" RHM	GROUNDING ELECTRODE CONDUCTOR CONDUIT WHERE REQUIRED FOR PROTECTION



COVER

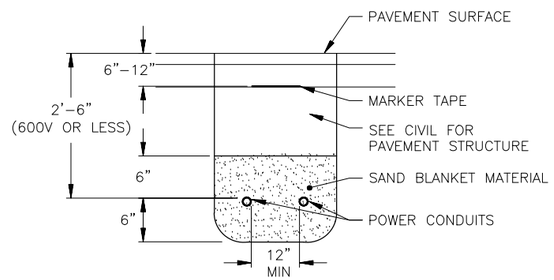


BOX

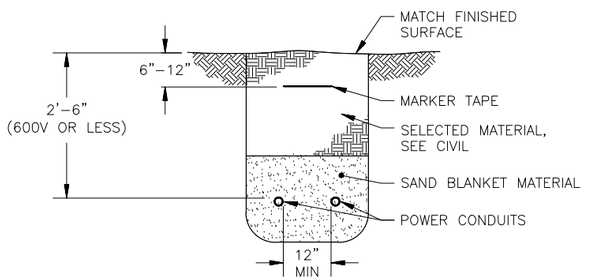
7 U20 POWER TYPE I PULL BOX DETAIL
NTS

TYPE 1 PULL BOX NOTES

1. EACH UNDERGROUND ENCLOSURE SHALL BE A HEAVY DUTY, FIBERGLASS REINFORCED POLYMER CONCRETE STRUCTURE, OPEN BOTTOM, UL LISTED UNDERGROUND ELECTRICAL ENCLOSURE, TOP OPENING DIMENSIONS APPROXIMATELY 24 BY 24 INCHES, ANSI TIER 22 LOADING (22,500 LBS DESIGN, 33,750 LBS TEST), HUBBELL QUAZITE PART NUMBER PG2424BA24 FOR ENCLOSURE AND PG2424HH00 FOR COVER WITH THE WORD "POWER" CAST IN COVER, OR ACCEPTED EQUAL FOR BOTH.
2. BOXES SHALL BE SET ON COMPACTED STRUCTURAL FILL, EXTENDING 12 INCHES BEYOND THE BOX IN ALL DIRECTIONS AND BEING 12 INCHES DEEP MINIMUM. BOXES SHALL BE SET WITH TOP EVEN WITH FINISH GRADE.



8 U20 BURIAL DETAIL (PAVEMENT)
NTS



9 U20 BURIAL DETAIL (NON-PAVEMENT)
NTS

STATE OF ALASKA
49 TH
Christopher N. Hodges
EE-10702
REGISTERED PROFESSIONAL ENGINEER

ELECTRICAL ONE-LINE DIAGRAM AND DETAILS

Friday, December 12, 2014, 1:21 PM