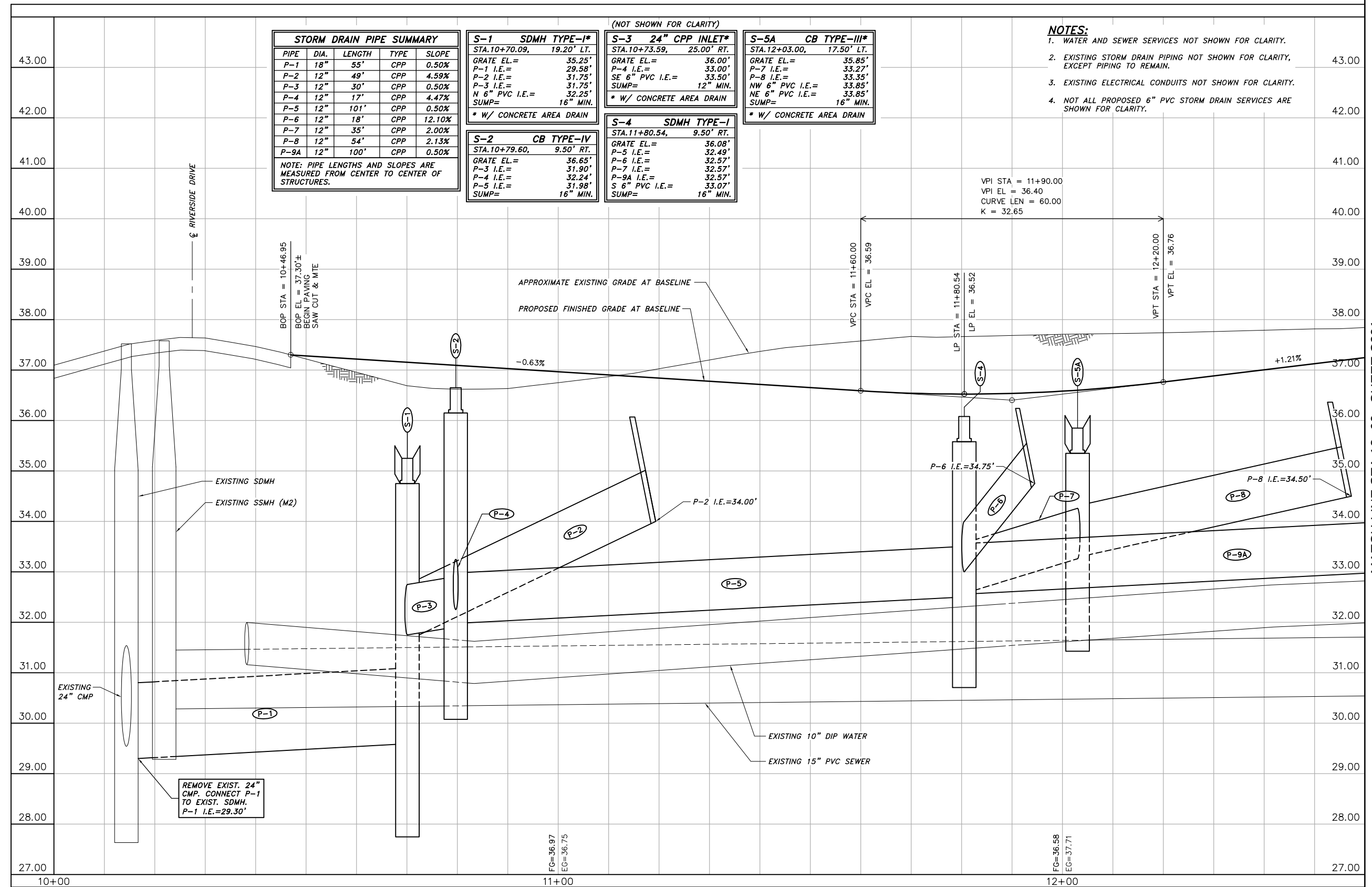
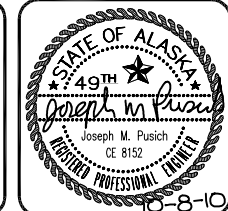
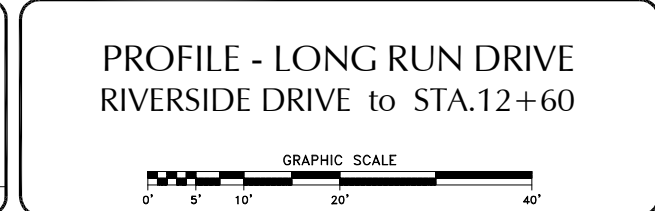




DESIGN JMP/KAP
DRAWN KAP/MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.



RAM
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JUNEAU, AK. 99801 Fax 907-780-4611
rmengineering@rmjuneau.com

**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**
CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
R & M NO. 101340
SHEET **C300**

NOTES:

1. WATER AND SEWER SERVICES NOT SHOWN FOR CLARITY.
2. EXISTING STORM DRAIN PIPING NOT SHOWN FOR CLARITY, EXCEPT PIPING TO REMAIN.
3. EXISTING ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY.
4. NOT ALL PROPOSED 6" PVC STORM DRAIN SERVICES ARE SHOWN FOR CLARITY.

STORM DRAIN PIPE SUMMARY				
PIPE	DIA.	LENGTH	TYPE	SLOPE
P-9B	12"	70'	CPP	0.50%
P-9C	12"	7'	CPP	10.00%
P-10	12"	37'	CPP	1.00%
P-11A	12"	74'	CPP	0.50%
P-11B	12"	72'	CPP	0.50%
P-11C	12"	8'	CPP	13.00%
P-12	12"	13'	CPP	12.70%
P-13	12"	27'	CPP	0.50%
P-14	12"	92'	CPP	0.50%

NOTE: PIPE LENGTHS AND SLOPES ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.

S-5B CB TYPE-IV	
STA.12+80.17,	14.35' RT.
LID EL.=	37.71'
P-9A I.E.=	33.07'
P-9B I.E.=	33.15'
P-9C I.E.=	35.00'
SUMP=	16" MIN.

* W/ CONCRETE AREA DRAIN

S-6B CB TYPE-IV	
STA.14+23.30,	13.88' RT.
LID EL.=	39.35'
P-11A I.E.=	33.95'
P-11B I.E.=	34.03'
P-11C I.E.=	35.15'
SUMP=	16" MIN.

* W/ CONCRETE AREA DRAIN

S-8 SDMH TYPE-I	
STA.14+95.00,	9.50' RT.
GRATE EL.=	38.49'
P-11B I.E.=	34.39'
P-12 I.E.=	35.35'
P-13 I.E.=	34.47'
SW 6" PVC I.E.=	34.80'
SE 6" PVC I.E.=	34.80'
SUMP=	16" MIN.

* W/ CONCRETE AREA DRAIN

S-6A CB TYPE-IV*	
STA.13+50.00,	19.66' RT.
GRATE EL.=	36.75'
P-9B I.E.=	33.50'
P-10 I.E.=	33.58'
P-11A I.E.=	33.58'
S 6" PVC I.E.=	34.00'
SUMP=	16" MIN.

* W/ CONCRETE AREA DRAIN

S-7 24" CPP INLET*	
STA.13+50.00,	17.50' LT.
GRATE EL.=	36.70'
P-10 I.E.=	33.95'
NW 6" PVC I.E.=	34.45'
NE 6" PVC I.E.=	34.45'
SUMP=	12" MIN.

* W/ CONCRETE AREA DRAIN

(NOT SHOWN FOR CLARITY)

VPI STA = 14+30.00
VPI EL = 39.30
CURVE LEN = 60.00
K = 33.71

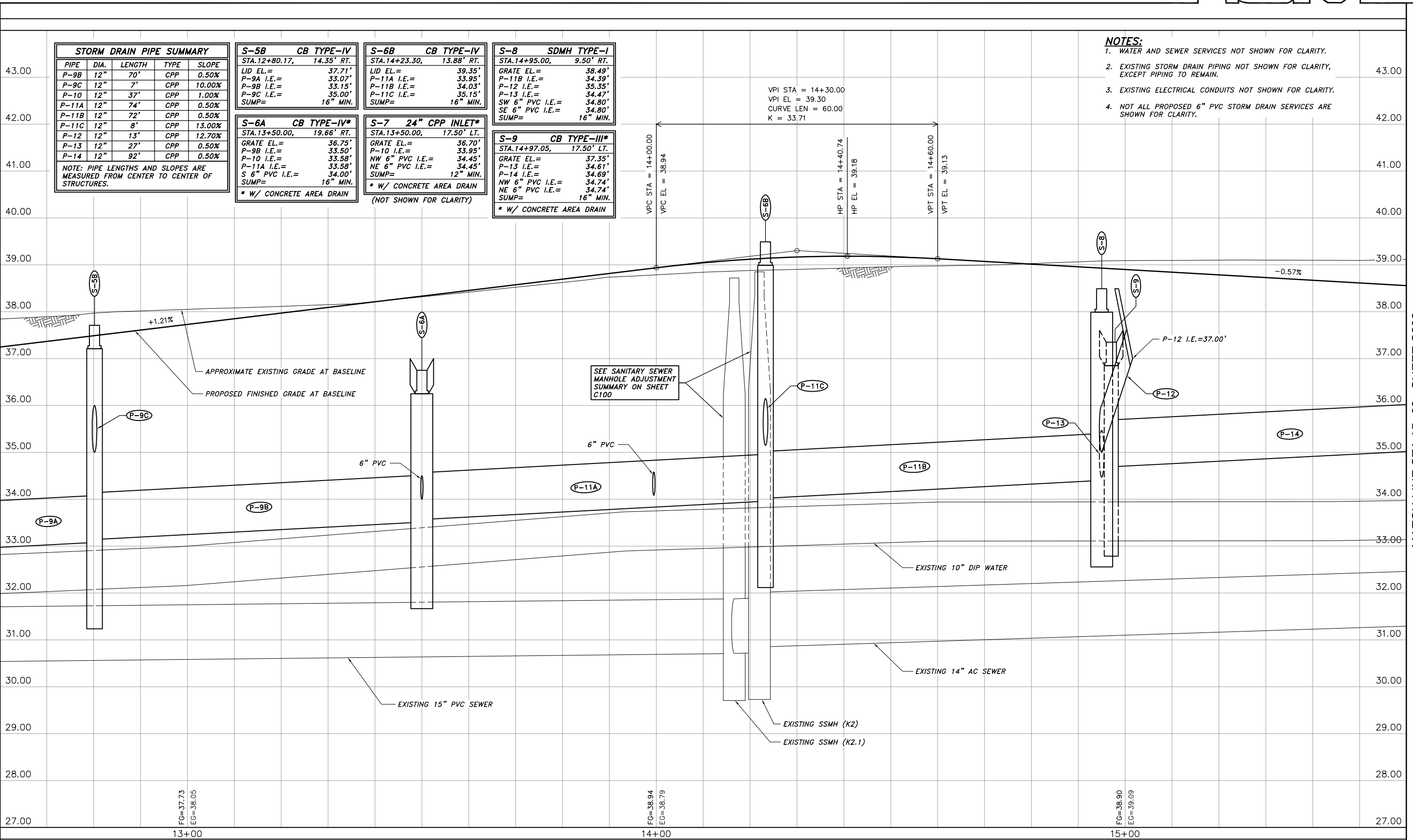
VPC STA = 14+00.00
VPC EL = 38.94

HP STA = 14+40.74
HP EL = 39.18

VPT STA = 14+60.00
VPT EL = 39.13

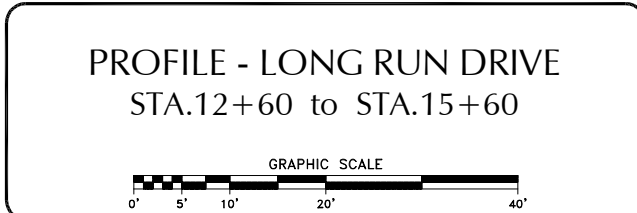
MATCH LINE STA.12+60, SHEET C300

MATCH LINE STA.15+60, SHEET C302



DESIGN	JMP/KAP
DRAWN	KAP/MLL
CHECK	JMP
APPROVED	JMP
FILE:	

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**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**

CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
R & M NO. 101340

SHEET
C301

NOTES:

1. WATER AND SEWER SERVICES NOT SHOWN FOR CLARITY.
2. EXISTING STORM DRAIN PIPING NOT SHOWN FOR CLARITY, EXCEPT PIPING TO REMAIN.
3. EXISTING ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY.
4. NOT ALL PROPOSED 6" PVC STORM DRAIN SERVICES ARE SHOWN FOR CLARITY.

VPI STA = 18+50.00
VPI EL = 41.50
CURVE LEN = 60.00
K = 33.22

STORM DRAIN PIPE SUMMARY				
PIPE	DIA.	LENGTH	TYPE	SLOPE
P-15	12"	27'	CPP	0.50%
P-16	12"	60'	CPP	0.50%
P-17	12"	56'	CPP	0.50%
P-18	12"	62'	CPP	1.66%
P-19	12"	35'	CPP	0.71%
P-20	8"	12'	CPP	1.00%
P-21	12"	46'	CPP	1.00%

NOTE: PIPE LENGTHS AND SLOPES ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.

S-10 CB TYPE-III*	
STA.15+89.00,	17.09' LT.
GRATE EL.=	37.44'
P-14 I.E.=	35.15'
P-15 I.E.=	35.23'
P-16 I.E.=	35.23'
N 6" PVC I.E.=	35.49'
SUMP=	16" MIN.
* W/ CONCRETE AREA DRAIN	

S-12 CB TYPE-III*	
STA.16+48.50,	17.00' LT.
GRATE EL.=	37.81'
P-16 I.E.=	35.53'
P-17 I.E.=	35.61'
N 6" PVC I.E.=	35.70'
S 6" PVC I.E.=	35.70'
SUMP=	16" MIN.
* W/ CONCRETE AREA DRAIN	

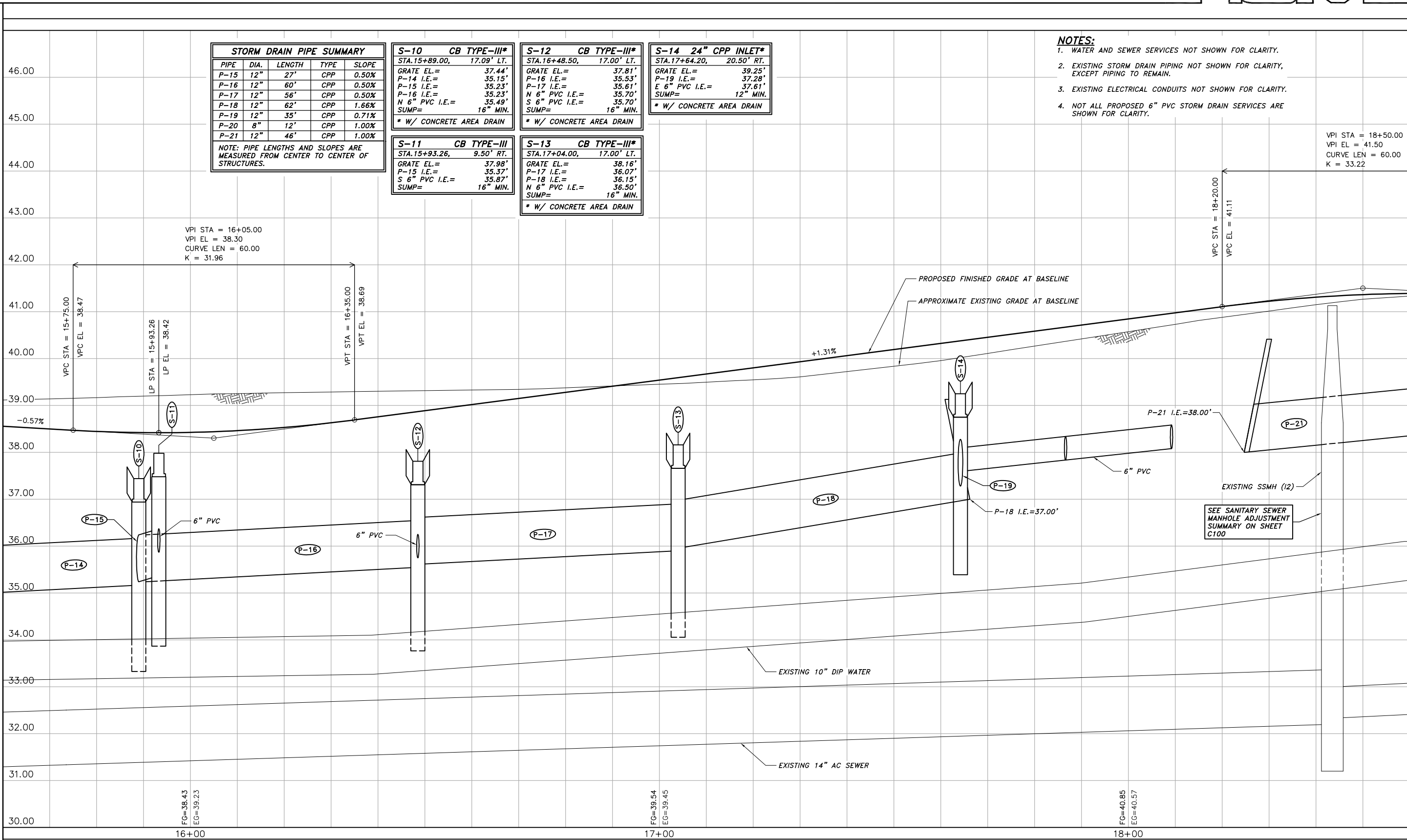
S-14 24" CPP INLET*	
STA.17+64.20,	20.50' RT.
GRATE EL.=	39.25'
P-19 I.E.=	37.28'
E 6" PVC I.E.=	37.61'
SUMP=	12" MIN.
* W/ CONCRETE AREA DRAIN	

S-11 CB TYPE-III	
STA.15+93.26,	9.50' RT.
GRATE EL.=	37.98'
P-15 I.E.=	35.37'
S 6" PVC I.E.=	35.87'
SUMP=	16" MIN.

S-13 CB TYPE-III*	
STA.17+04.00,	17.00' LT.
GRATE EL.=	38.16'
P-17 I.E.=	36.07'
P-18 I.E.=	36.15'
N 6" PVC I.E.=	36.50'
SUMP=	16" MIN.
* W/ CONCRETE AREA DRAIN	

MATCH LINE STA.15+60, SHEET C301

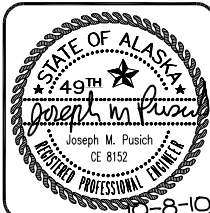
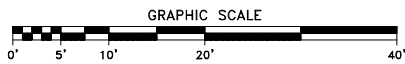
MATCH LINE STA.18+60, SHEET C303



DESIGN JMP/KAP
DRAWN KAP/MLL
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APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

PROFILE - LONG RUN DRIVE
STA.15+60 to STA.18+60



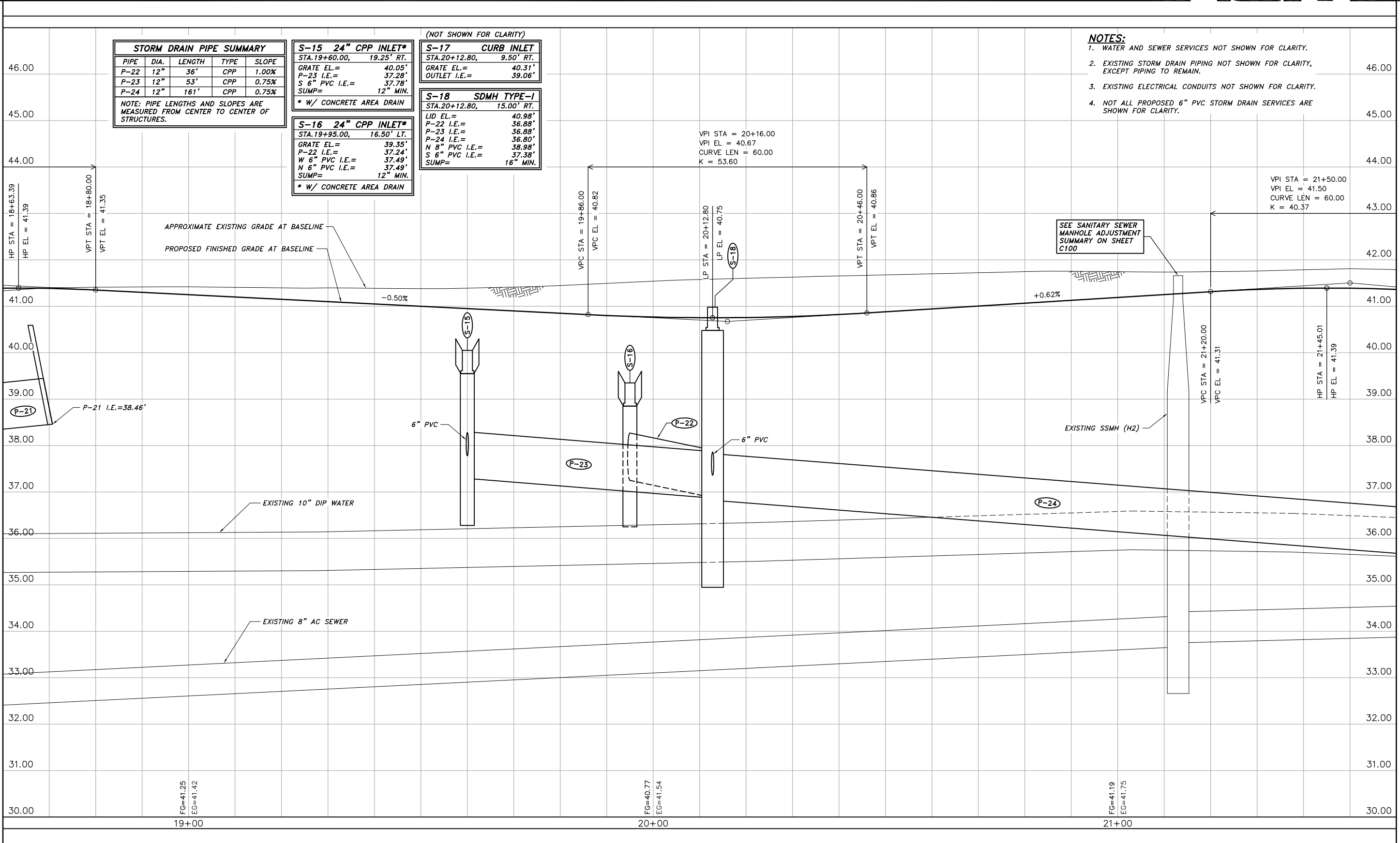
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**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**
CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
R & M NO. 101340
SHEET **C302**

MATCH LINE STA.18+60, SHEET C302

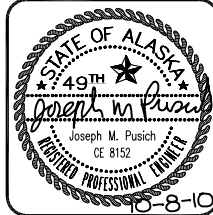
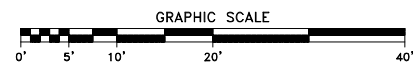
MATCH LINE STA.21+60, SHEET C304



DESIGN JMP/KAP
DRAWN KAP/MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

PROFILE - LONG RUN DRIVE
STA.18+60 to STA.21+60



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**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**
CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
R & M NO. 101340
SHEET **C303**

- NOTES:**
1. WATER AND SEWER SERVICES NOT SHOWN FOR CLARITY.
 2. EXISTING STORM DRAIN PIPING NOT SHOWN FOR CLARITY, EXCEPT PIPING TO REMAIN.
 3. EXISTING ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY.
 4. NOT ALL PROPOSED 6" PVC STORM DRAIN SERVICES ARE SHOWN FOR CLARITY.

STORM DRAIN PIPE SUMMARY				
PIPE	DIA.	LENGTH	TYPE	SLOPE
P-25	12"	32'	CPP	1.00%
P-26	12"	134'	CPP	0.75%
P-27	12"	34'	CPP	0.50%
P-28	12"	90'	CPP	0.75%
P-29	12"	51'	CPP	0.75%
P-30	12"	120'	CPP	0.75%

NOTE: PIPE LENGTHS AND SLOPES ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.

S-19	SDMH TYPE-I
STA.21+74.00,	14.50' RT.
LID EL.=	41.51'
P-24 I.E.=	35.59'
P-25 I.E.=	37.00'
P-26 I.E.=	35.51'
S 6" PVC I.E.=	37.50'
SUMP=	16" MIN.

* W/ CONCRETE AREA DRAIN

S-20	24" CPP INLET*
STA.21+65.00,	16.50' LT.
GRATE EL.=	39.35'
P-25 I.E.=	37.34'
NW 6" PVC I.E.=	37.59'
NE 6" PVC I.E.=	37.59'
SUMP=	12" MIN.

* W/ CONCRETE AREA DRAIN

S-21	SDMH TYPE-I
STA.23+08.27,	15.00' RT.
LID EL.=	40.52'
P-26 I.E.=	34.50'
P-27 I.E.=	36.50'
P-28 I.E.=	34.42'
N 8" PVC I.E.=	38.52'
SE 6" PVC I.E.=	36.50'
SUMP=	16" MIN.

(NOT SHOWN FOR CLARITY)

S-22	CURB INLET
STA.23+08.27,	9.50' LT.
GRATE EL.=	39.85'
OUTLET I.E.=	38.60'

S-23	24" CPP INLET*
STA.23+20.00,	16.50' LT.
GRATE EL.=	38.75'
P-27 I.E.=	36.69'
N 6" PVC I.E.=	37.19'
SUMP=	12" MIN.

* W/ CONCRETE AREA DRAIN

S-24	SDMH TYPE-I*
STA.23+84.03,	24.36' RT.
GRATE EL.=	39.85'
P-28 I.E.=	33.74'
P-29 I.E.=	33.66'
E 6" PVC I.E.=	36.20'
SUMP=	16" MIN.

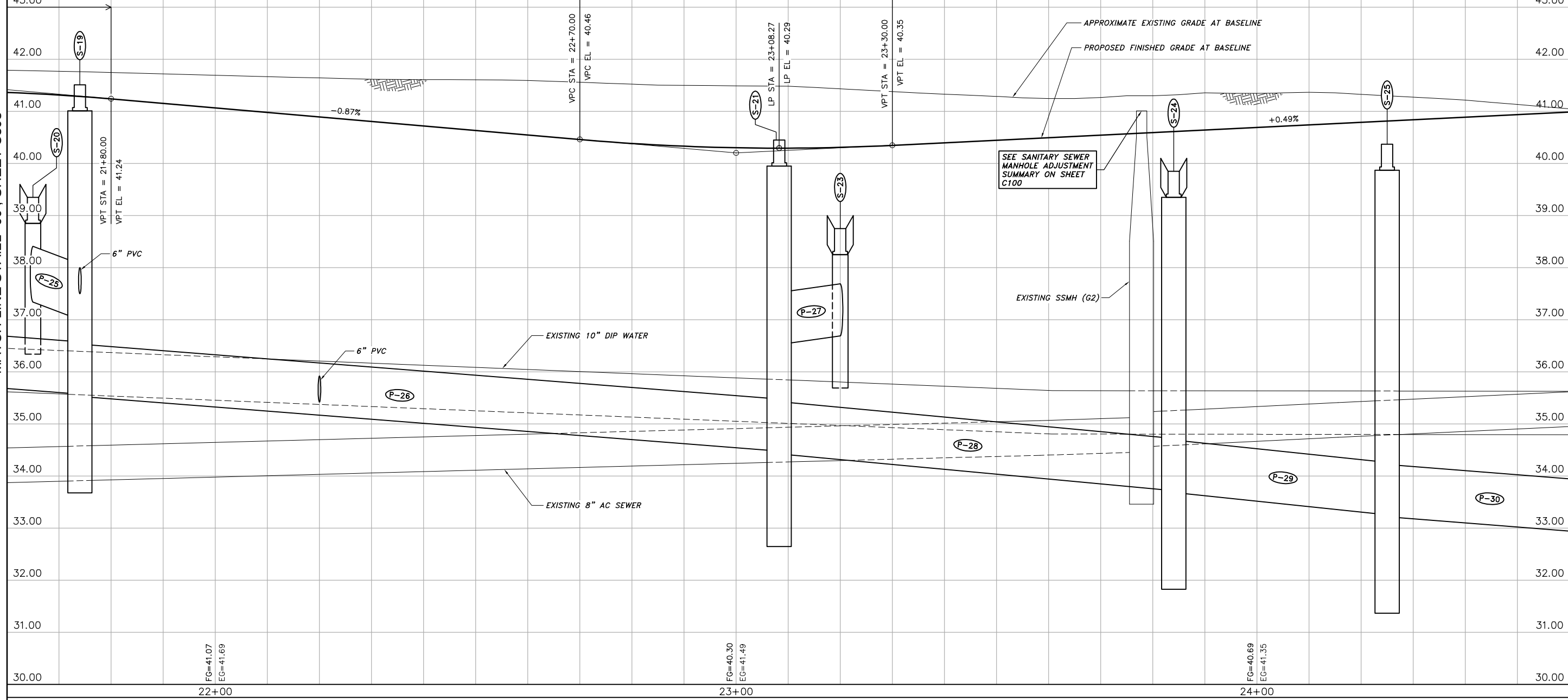
* W/ CONCRETE AREA DRAIN

S-25	SDMH TYPE-I
STA.24+25.00,	9.50' RT.
GRATE EL.=	40.37'
P-29 I.E.=	33.28'
P-30 I.E.=	33.20'
E 6" PVC I.E.=	36.00'
SUMP=	16" MIN.

VPI STA = 23+00.00
VPI EL = 40.20
CURVE LEN = 60.00
K = 44.16

MATCH LINE STA.21+60, SHEET C303

MATCH LINE STA.24+60, SHEET C305



DESIGN JMP/KAP

DRAWN KAP/MLL

CHECK JMP

APPROVED JMP

FILE:

No.	DATE	REVISION	BY	APRVD.

PROFILE - LONG RUN DRIVE
STA.21+60 to STA.24+60

GRAPHIC SCALE

0' 5' 10' 20' 40'

STATE OF ALASKA
49th
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

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**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**
CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
R & M NO. 101340
SHEET **C304**

NOTES:

1. WATER AND SEWER SERVICES NOT SHOWN FOR CLARITY.
2. EXISTING STORM DRAIN PIPING NOT SHOWN FOR CLARITY, EXCEPT PIPING TO REMAIN.
3. EXISTING ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY.
4. NOT ALL PROPOSED 6" PVC STORM DRAIN SERVICES ARE SHOWN FOR CLARITY.
5. PROFILE OF MCGINNIS DRIVE TO GEE STREET INTERSECTION NOT SHOWN.

STORM DRAIN PIPE SUMMARY				
PIPE	DIA.	LENGTH	TYPE	SLOPE
P-31	12"	79'	CPP	2.00%
P-33	12"	175'	CPP	0.50%
P-34*	12"	30'	CPP	0.50%

NOTE: PIPE LENGTHS AND SLOPES ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.

* NOT SHOWN IN PROFILE.

S-26 SDMH TYPE-I	
STA.25+44.42,	2.14' LT.
LID EL.=	41.30'
P-30 I.E.=	32.30'
P-31 I.E.=	35.42'
P-33 I.E.=	32.22'
SUMP=	16" MIN.

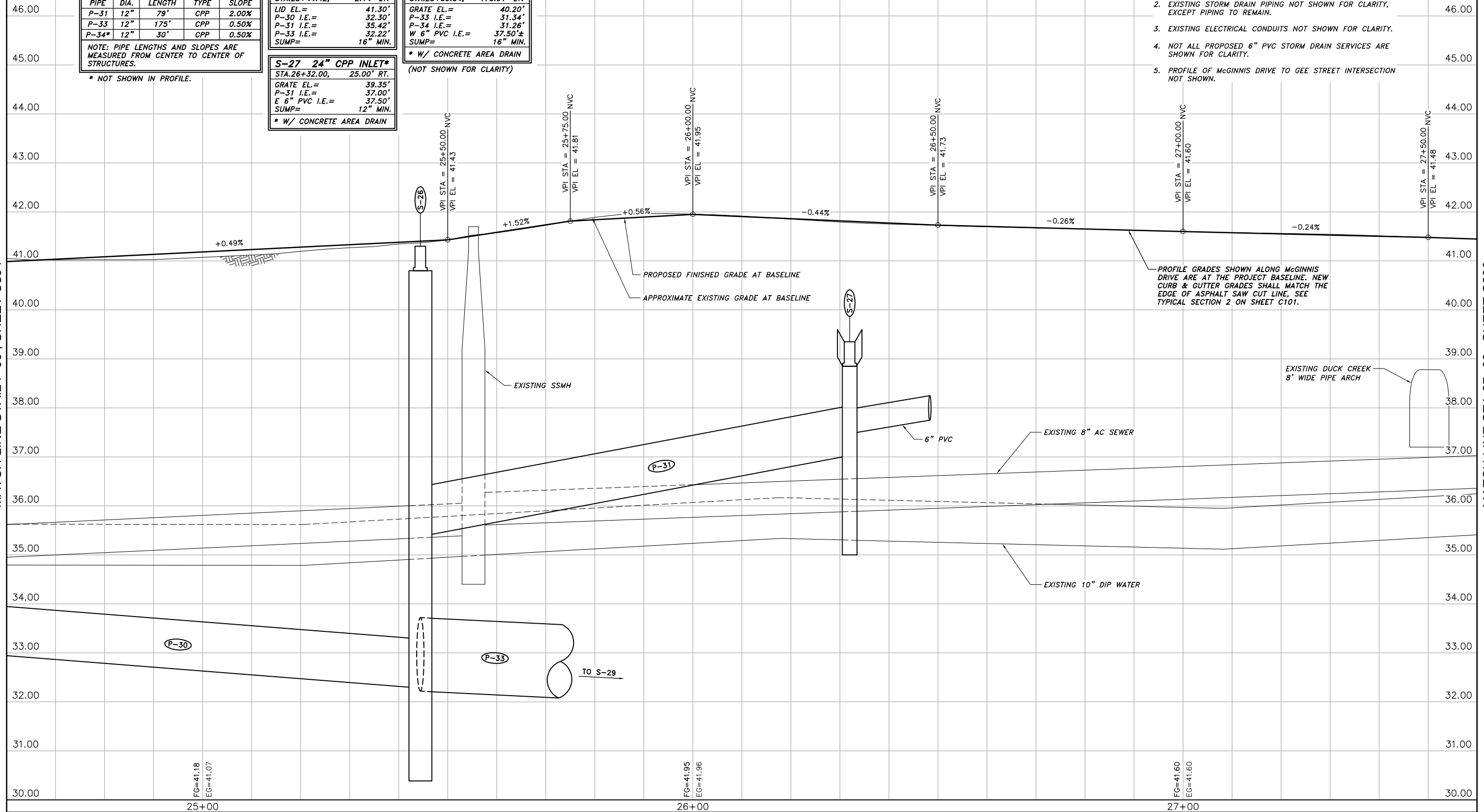
S-27 24" CPP INLET*	
STA.26+32.00,	25.00' RT.
GRATE EL.=	39.35'
P-31 I.E.=	37.00'
E 6" PVC I.E.=	37.50'
SUMP=	12" MIN.

* W/ CONCRETE AREA DRAIN

S-29 SDMH TYPE-I*	
STA.25+59.54,	173.91' LT.
GRATE EL.=	40.20'
P-33 I.E.=	31.34'
P-34 I.E.=	31.26'
W 6" PVC I.E.=	37.50'±
SUMP=	16" MIN.

* W/ CONCRETE AREA DRAIN
(NOT SHOWN FOR CLARITY)

MATCH LINE STA.24+60, SHEET C304

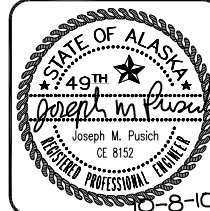
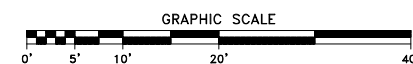


MATCH LINE STA.27+60, SHEET C306

DESIGN	JMP/KAP
DRAWN	KAP/MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

PROFILE - LONG RUN DRIVE /
MCGINNIS DRIVE
STA.24+60 to STA.27+60



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**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**

CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE:	OCT. 8, 2010
R & M NO.	101340
SHEET	C305

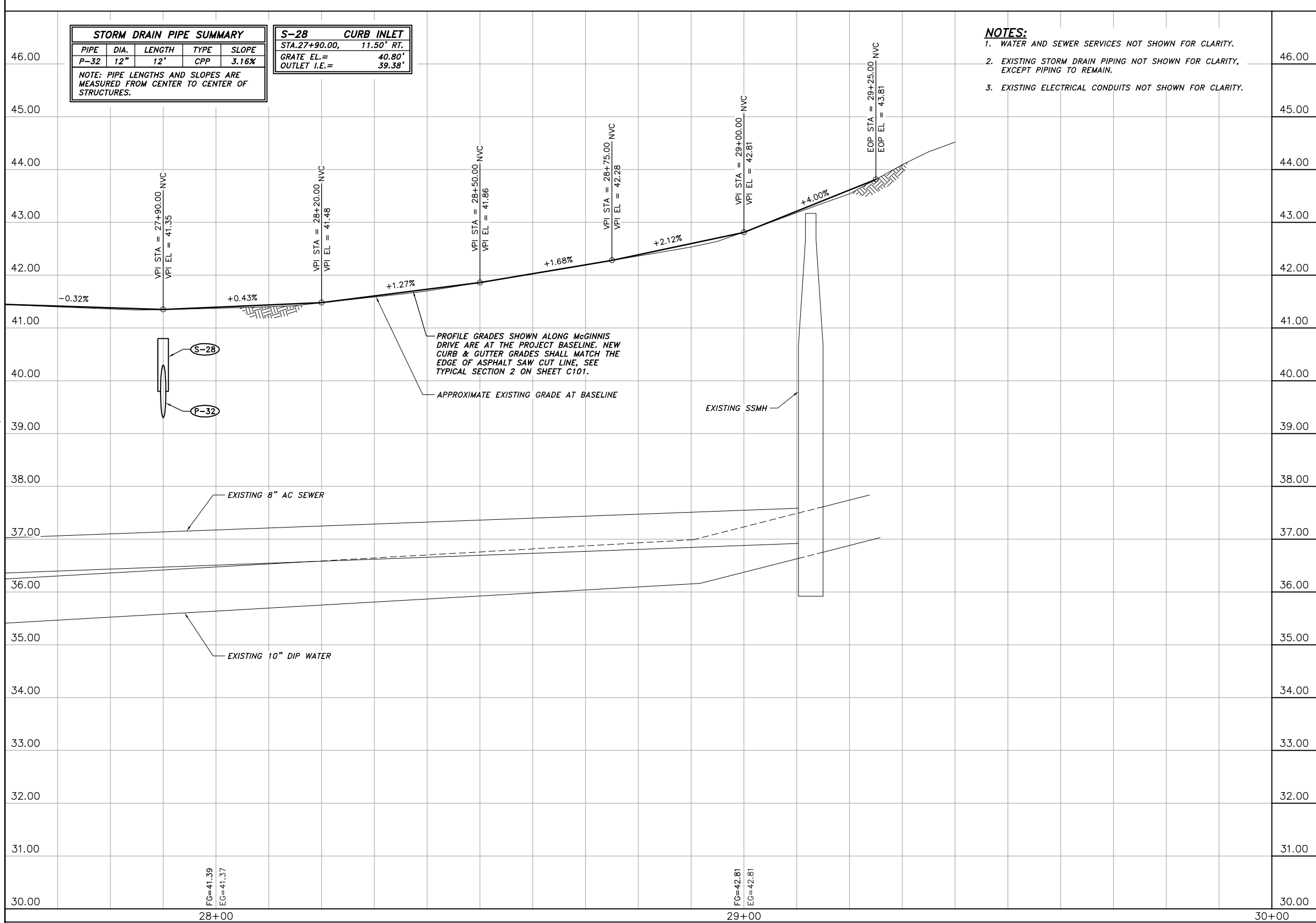
MATCH LINE STA.27+60, SHEET C305

STORM DRAIN PIPE SUMMARY				
PIPE	DIA.	LENGTH	TYPE	SLOPE
P-32	12"	12'	CPP	3.16%

NOTE: PIPE LENGTHS AND SLOPES ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.

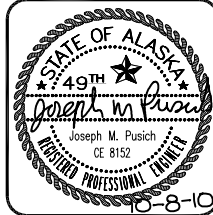
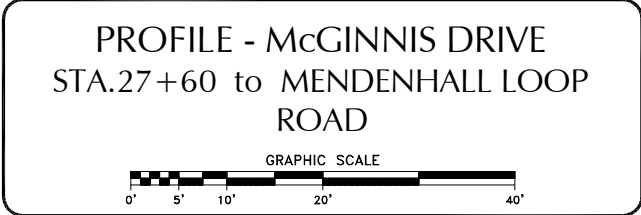
S-28 CURB INLET	
STA.27+90.00,	11.50' RT.
GRATE EL.=	40.80'
OUTLET I.E.=	39.38'

- NOTES:**
1. WATER AND SEWER SERVICES NOT SHOWN FOR CLARITY.
 2. EXISTING STORM DRAIN PIPING NOT SHOWN FOR CLARITY, EXCEPT PIPING TO REMAIN.
 3. EXISTING ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY.



DESIGN	JMP/KAP
DRAWN	KAP/MLL
CHECK	JMP
APPROVED	JMP
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No.	DATE	REVISION	BY	APRVD.



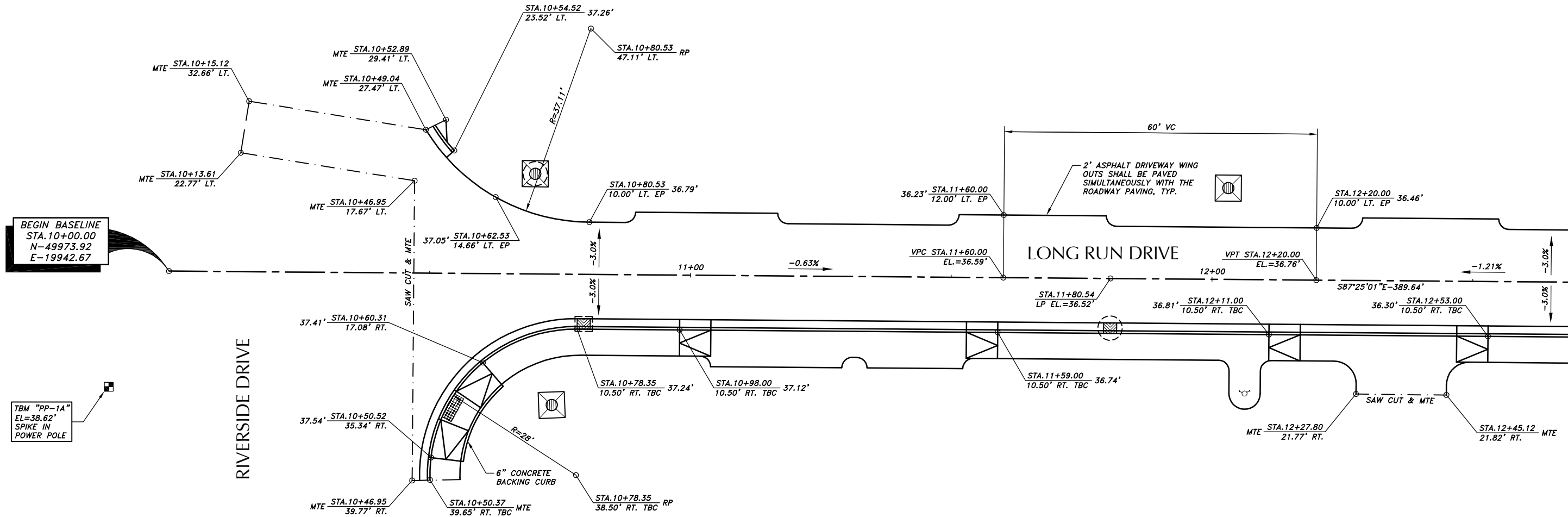
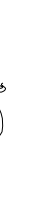
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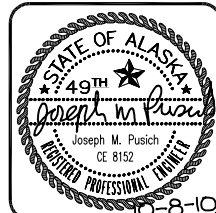
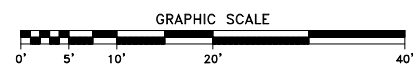


- NOTES:**
1. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
 2. SEE PROFILES FOR VERTICAL CURVE INFORMATION.
 3. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. EP=EDGE OF PAVEMENT.

DESIGN	JMP/KAP
DRAWN	KAP/MLL
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APPROVED	JMP
FILE:	

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CURB & GUTTER LAYOUT PLAN
STA.10+00 to STA.12+71

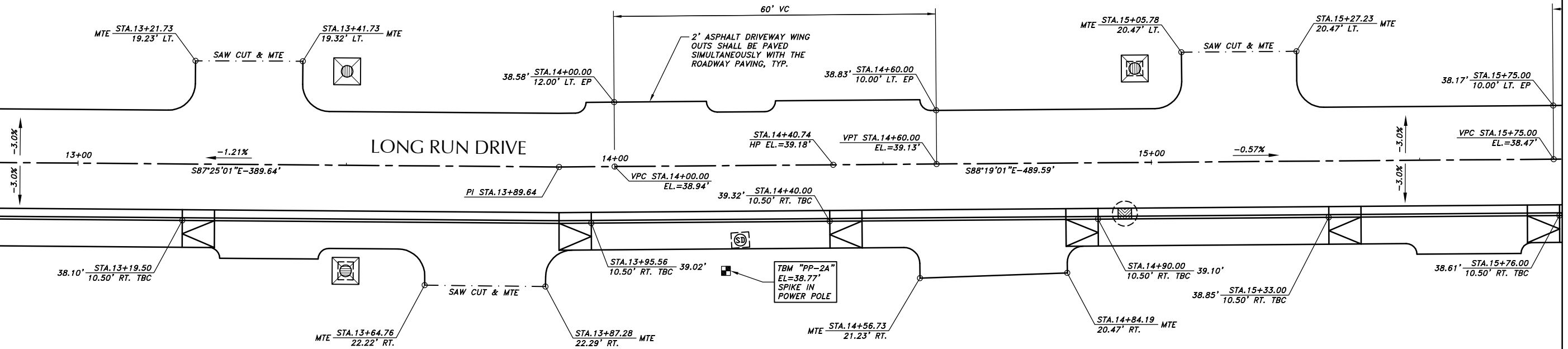


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CITY & BOROUGH OF JUNEAU, ALASKA

MATCH LINE STA. 12+71, SHEET C400

MATCH LINE STA. 15+76, SHEET C402

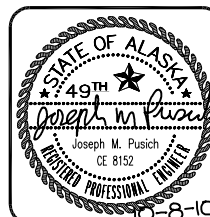
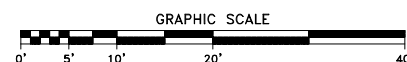


- NOTES:**
1. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
 2. SEE PROFILES FOR VERTICAL CURVE INFORMATION.
 3. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. EP=EDGE OF PAVEMENT.

DESIGN JMP/KAP
 DRAWN KAP/MLL
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CURB & GUTTER LAYOUT PLAN
 STA.12+71 to STA.15+76



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 JUNEAU, AK. 99801 Fax 907-780-4611
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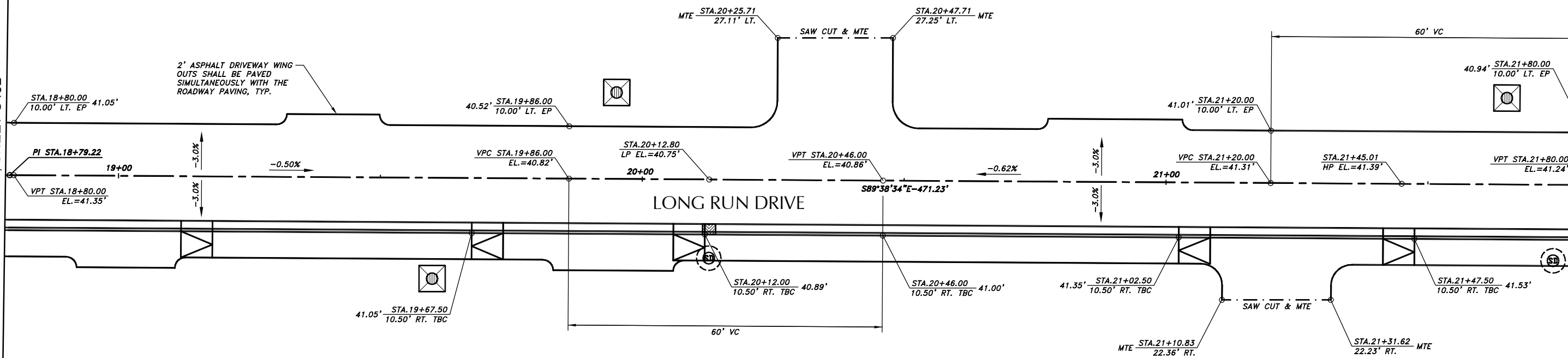
**LONG RUN DRIVE
 SIDEWALK AND DRAINAGE
 RECONSTRUCTION**
 CBJ CONTRACT No. E11-151
 CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
 R & M NO. 101340
 SHEET **C401**



MATCH LINE STA. 18+78, SHEET C402

MATCH LINE STA. 21+80, SHEET C404



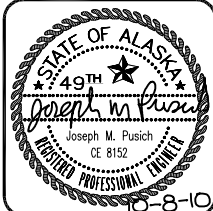
- NOTES:**
1. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
 2. SEE PROFILES FOR VERTICAL CURVE INFORMATION.
 3. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. EP=EDGE OF PAVEMENT.

DESIGN	JMP/KAP
DRAWN	KAP/MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CURB & GUTTER LAYOUT PLAN
STA.18+78 to STA.21+80

GRAPHIC SCALE



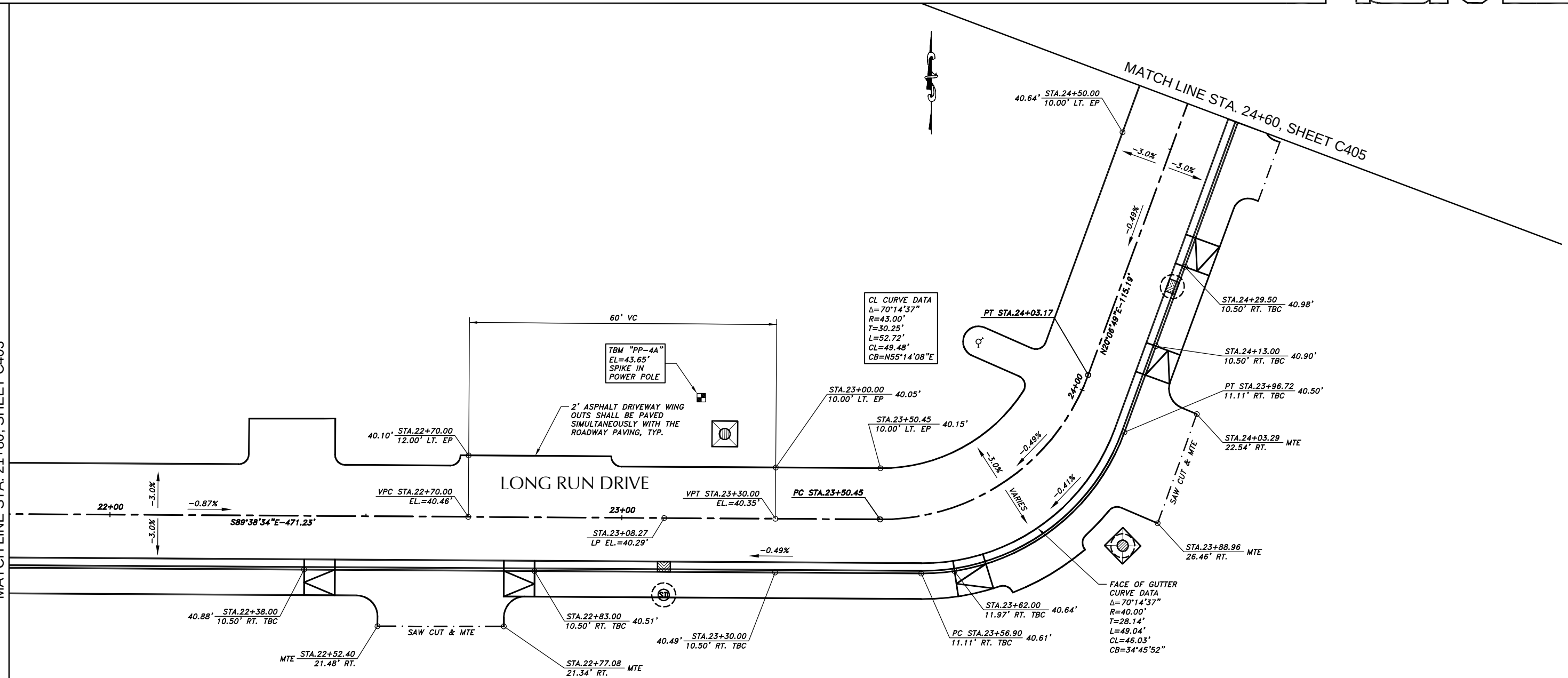
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

6205 GLACIER HIGHWAY Phone 907-780-6060
JUNEAU, AK. 99801 Fax 907-780-4611
rmengineering@rmjuneau.com

LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION
CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA

DATE: OCT. 8, 2010
R & M NO. 101340

SHEET **C403**



2. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.

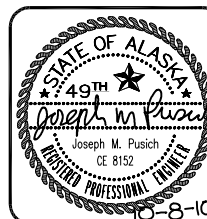
3. SEE PROFILES FOR VERTICAL CURVE INFORMATION.

4. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. EP=EDGE OF PAVEMENT.

DESIGN	<u>JMP/KAP</u>	<table><tr><td>No.</td><td>DATE</td><td>REVISION</td><td>BY</td><td>APRVD.</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>	No.	DATE	REVISION	BY	APRVD.																				
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CHECK	<u>JMP</u>																										
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FILE:																											

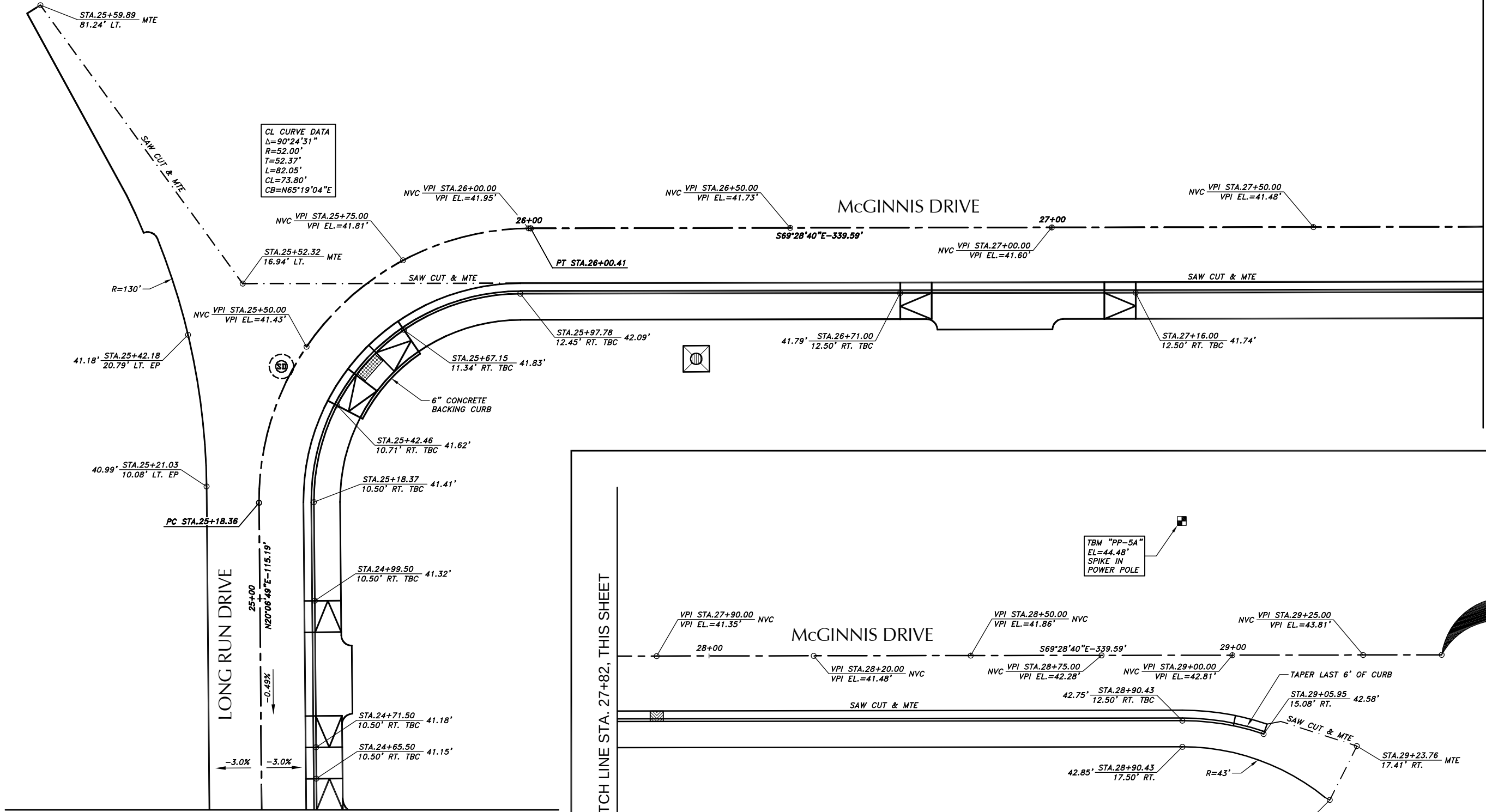
GRAPHIC SCALE

0' 5' 10' 20' 40'



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**LONG RUN DRIVE
SIDEWALK AND DRAINAGE
RECONSTRUCTION**
CBJ CONTRACT No. E11-151
CITY & BOROUGH OF JUNEAU, ALASKA



MATCH LINE STA. 27+82, THIS SHEET

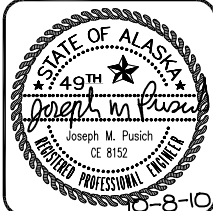
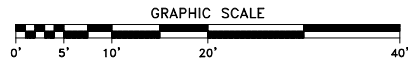
MENDENHALL LOOP ROAD

- NOTES:**
1. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
 2. SEE PROFILES FOR VERTICAL CURVE INFORMATION.
 3. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. EP=EDGE OF PAVEMENT.

DESIGN	JMP/KAP
DRAWN	KAP/MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CURB & GUTTER LAYOUT PLAN
STA.24+60 to STA.29+40



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**LONG RUN DRIVE
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