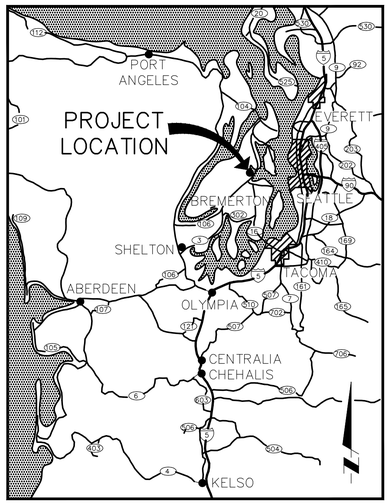
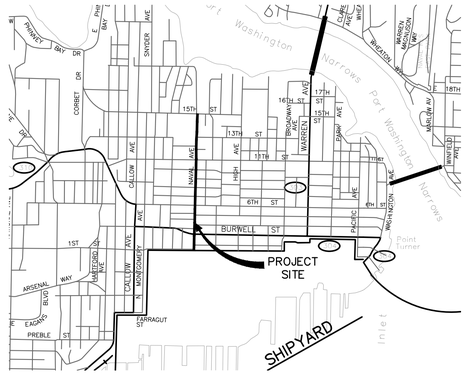
BREMERTON DEPARTMENT OF PUBLIC WORKS AND UTILITIES

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT

CITY PROJECT NO. 315028
STATE PROJECT NO. HLP-PB19(006)
90% DRAFT NOT FOR CONSTRUCTION PLANS



VICINITY MAP
NTS



LOCATION MAP
NTS

SHEET INDEX

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RECOMMENDED BY:

SHANE WEBER, P.E.
MANAGING ENGINEER
WASHINGTON P.E.# 46273

APPROVED BY:

NED LEVER, P.E.
CITY ENGINEER

Know what's **below.** **Call** before you dig.

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. PARENTEAU* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT GENERAL SHEETS

PN: PROJNUM

CV1
SHEET
1
OF
179

LEGEND

SIGNAL AND CHANNELIZATION

EXISTING	PROPOSED	
		BUTTON LINE
		STREET LIGHT ASSY.
		SIGN
		SIGNAL POLE
		SIGNAL POLE W/ LUMINAIRE
		PEDESTRIAN SIGNAL HEAD
JB□		JUNCTION BOX (TYPE 1, 2, 8)
		SIGNAL CONTROLLER
		SERVICE CABINET
		PEDESTRIAN PUSHBUTTON POST W/PUSHBUTTON
		VEHICLE SIGNAL HEAD
		VIDEO CAMERA
		VEHICLE SIGNAL HEAD W/ARROW INDICATOR
		PREEMPTION DETECTOR
		LOOP DETECTION

WATER

EXISTING	
	WATER METER
	FIRE HYDRANT
	GATE VALVE
	WATER MAIN

SANITARY & STORM DRAINAGE

EXISTING	PROPOSED	
		SAN SEWER CLEAN OUT
		SAN SEWER MANHOLE
		STORM SEWER MANHOLE
		STORM DRAIN CATCH BASIN
		CULVERT
SS		SANITARY SEWER
SD	SD	STORM DRAIN

SURVEY, SURFACE FEATURES

EXISTING	
△	CONTROL POINT
T	CHAIN LINK FENCE
	EVERGREEN/CONIFER TREE
	DECIDUOUS TREE
	SURVEY MONUMENT

GAS,TELEPHONE & POWER

EXISTING	
	TELEPHONE VAULT
P	POWER VAULT
JB□	POWER PULL BOX
T	COMM MANHOLE
TEL □	COMM RISER
	UTILITY POLE
	POWER POLE
	GUY WIRE
T	TELEPHONE
G	GASMAIN
P	POWER
OP	OVERHEAD POWER
OHC	OVERHEAD COMM LINE

811 Know what's **below.** **Call** before you dig.

ABBREVIATIONS

AP	–	ANGLE POINT
ADA	–	AMERICAN W/DISABILITIES ACT
COB	–	CITY OF BREMERTON
CONC.	–	CONCRETE
EG	–	EXISTING GROUND
EL	–	ELEVATION
EOP	–	EDGE OF PAVEMENT
EX	–	EXISTING
FG	–	FINISH GROUND
FL	–	FLOW LINE
HCR	–	HANDICAP CURB RAMP
HMA	–	HOT MIX ASPHALT
L	–	LEFT
LF	–	LINEAR FOOT
NTS	–	NOT TO SCALE
PVC	–	POLYVINYL CHLORIDE
R	–	RIGHT
RMV	–	REMOVAL
RPM	–	RAISED PAVEMENT MARKER
SDCB	–	STORM DRAIN CATCH BASIN
SDMH	–	STORM DRAIN MANHOLE
SF	–	SILT FENCE
TBC	–	TOP BACK CURB
UNO	–	UNLESS NOTED OTHERWISE

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)
- PROPERTY LINE
- R/W LINE

GENERAL NOTES:

1. CONTRACTOR TO CALL UNDERGROUND UTILITIES LOCATE SERVICE AT 1–800–424–5555 A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE KNOWN EXISTING UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWINGS IN THEIR APPROXIMATE LOCATION. THERE IS NO GUARANTEE, EXPRESSED OR IMPLIED, THAT ALL UTILITY LINES ARE SHOWN OR THAT LOCATIONS ARE ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSINGS, INTERFERENCES, OR CONNECTIONS OCCUR, PRIOR TO TRENCHING OR EXCAVATING FOR ANY NEW PIPE STRUCTURES TO DETERMINE ACTUAL LOCATIONS AND SHALL MAKE THE APPROPRIATE PROVISIONS TO PROTECT SAID FACILITIES FROM DAMAGE.

2. OVERHEAD ELECTRICAL POWER, TELEPHONE, CABLE TV, AND OTHER OVERHEAD LINES ARE GENERALLY NOT SHOWN. DETERMINE THE EXTENT OF HAZARDS OR IMPACTS ON CONSTRUCTION ACTIVITIES CREATED BY OVERHEAD OR UNDERGROUND ELECTRICAL POWER, TELEPHONE, CABLE TV, AND OTHER LINES IN ALL AREAS, AND FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATIONS. PRIOR TO CONSTRUCTION MEET WITH UTILITY OWNERS TO DETERMINE THE EXTENT OF HAZARDS AND TAKE WHATEVER PRECAUTIONS AND REMEDIAL MEASURES THAT MAY BE REQUIRED TO PROTECT PERSONS AND PROPERTY AND TO AVOID DISRUPTION OF SERVICE.

3. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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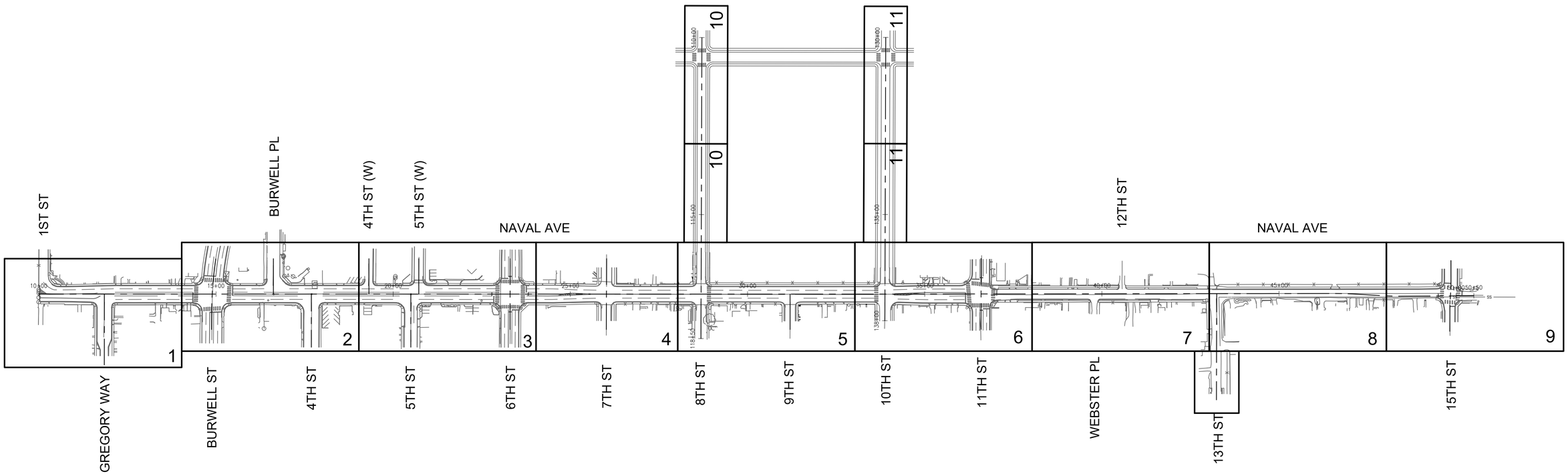
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
GENERAL SHEETS
LEGEND AND NOTES

PN: PROJNUM

GS1
SHEET
2
OF
179



N

KEY MAP

N.T.S.

CAD FILE:

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STATE OF WASHINGTON
55471
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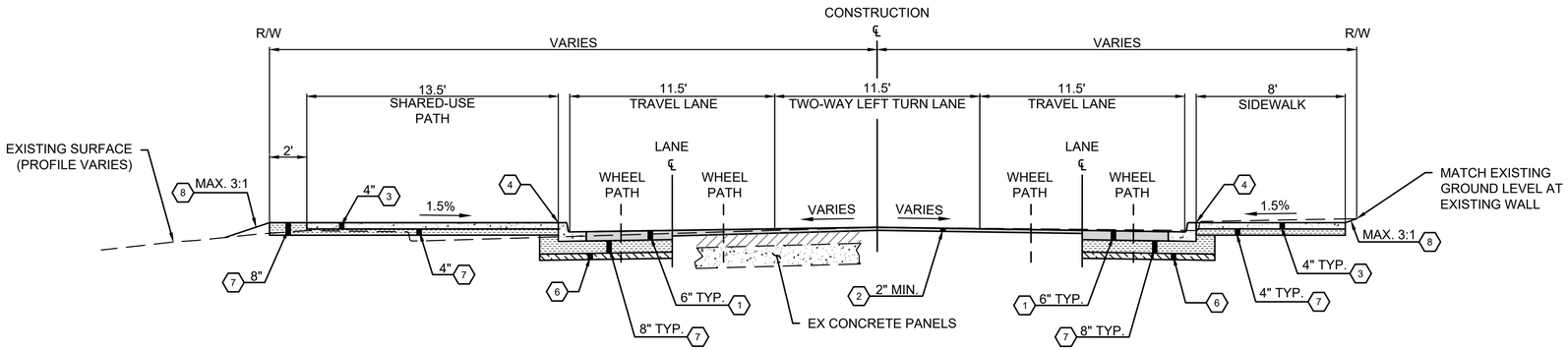
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT GENERAL SHEETS KEYMAP

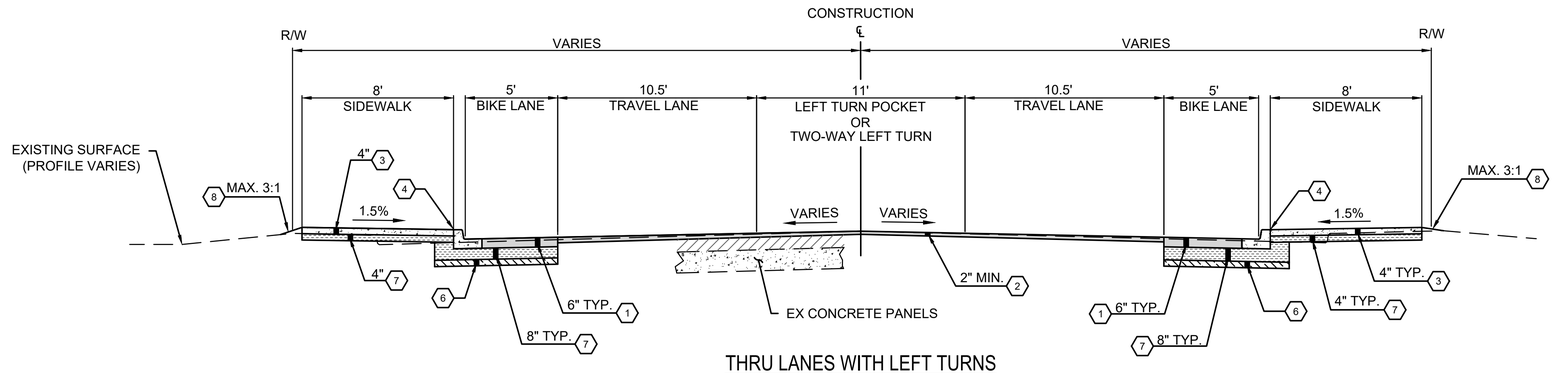
PN: PROJNUM

GS2
SHEET
3
OF
179



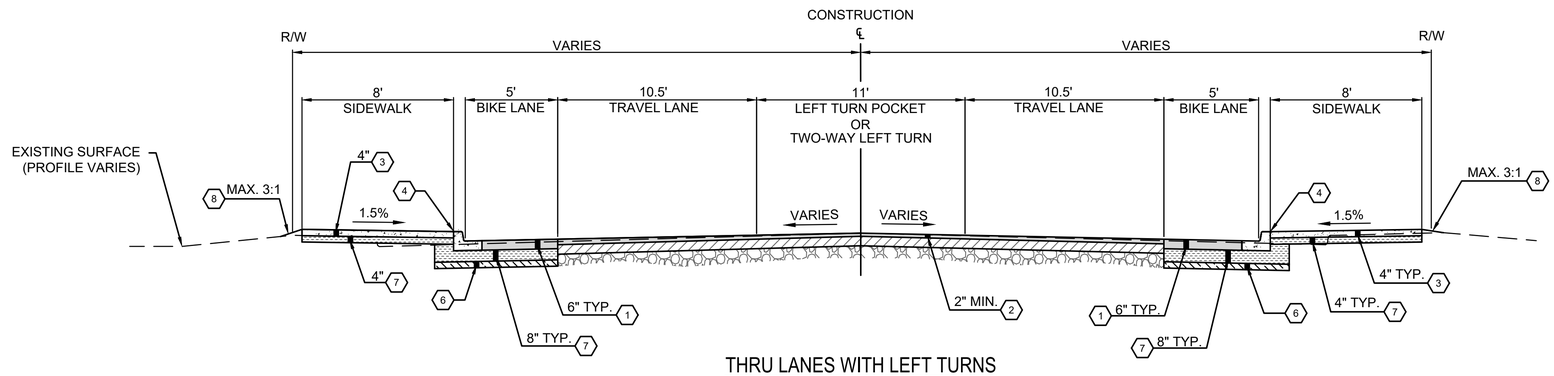
THRU LANES WITH SHARED USER PATH

NTS STA "N" 10+01.29 TO 11+50



THRU LANES WITH LEFT TURNS

NTS STA "N" 11+50 TO 14+73
STA "N" 16+75 TO 21+05
STA "N" 28+48 TO 33+75



THRU LANES WITH LEFT TURNS

NTS STA "N" 23+45 TO 27+98
STA "N" 33+75 TO 34+50

CONSTRUCTION NOTES

1. HMA CL. 1/2" PG58H–22, 2 LIFTS
2. HMA CL. 1/2" PG58H–22, SINGLE LIFT OVERLAY. GRIND DOWN 2" FROM EXISTING SURFACE AND OVERLAY TO FINISHED SURFACE LEVELS.
3. CEMENT CONC. SIDEWALK PER DETAIL 1 ON SHEET PVD1
4. CEMENT CONC. TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
5. CRUSHED SURFACING BASE COURSE PER WSDOT SECTION 9–03, THICKNESS AS NOTED.
6. CRUSHED SURFACING BASE COURSE PER WSDOT SECTION 9–03, THICKNESS TO BE CONFIRMED DURING 100% DESIGN STAGE.
7. CRUSHED SURFACING TOP COURSE, AS SECOND APPLICATION OF BASE COURSE MATERIAL
8. LANDSCAPE / TOPSOIL AND SEED
9. COMPACTED SUBGRADE 95% MDD

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE PAVING PLAN FOR VARIABLE WIDTHS, MEDIAN LOCATIONS, AND LIMITS OF CURB.
3. SEE PAVING PLANS AND INTERSECTION GRADING PLANS FOR ROADWAY SUPERELEVATION CHANGES AND GRADE DEVIATIONS FROM TYPICAL SLOPES SHOWN.
4. SEE SHEET PVD4 FOR SECTION BETWEEN STA "N" 27+98 AND "N" 28+48.

LEGEND

- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT
- CRUSHED SURFACING BASE COURSE
- CRUSHED SURFACING TOP COURSE
- COMPACTED SUBGRADE
- EXISTING HMA PAVEMENT
- EXISTING GRAVEL
- LANDSCAPE (TOPSOIL AND SEED)
- EXISTING SURFACE

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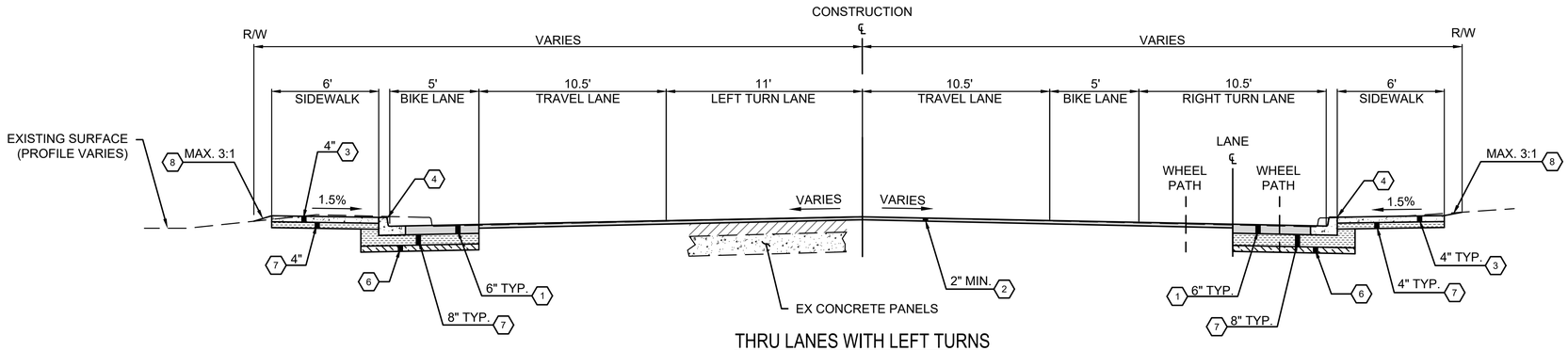
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
ROADWAY TYPICAL SECTIONS
MINOR ARTERIAL

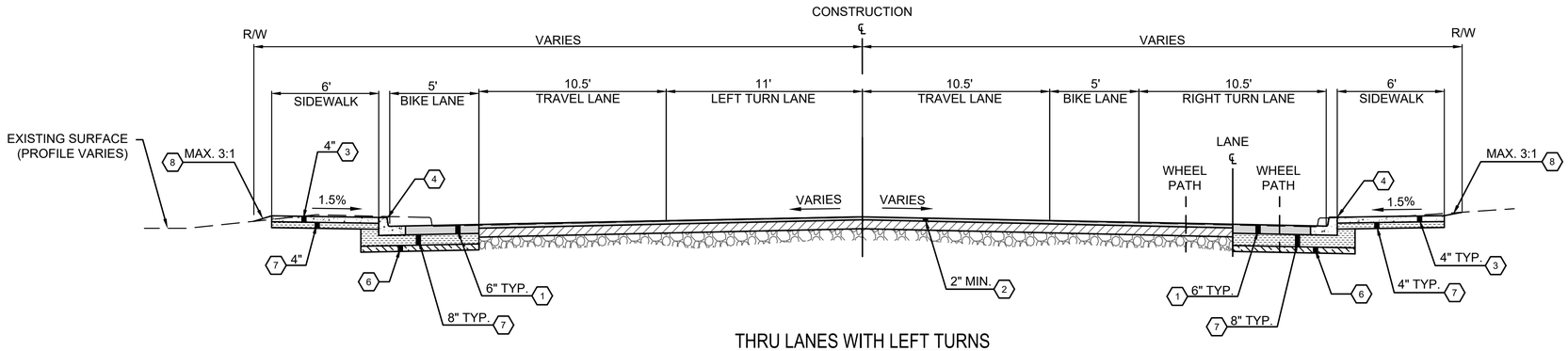
PN: PROJNUM

RS1
SHEET
4
OF
179



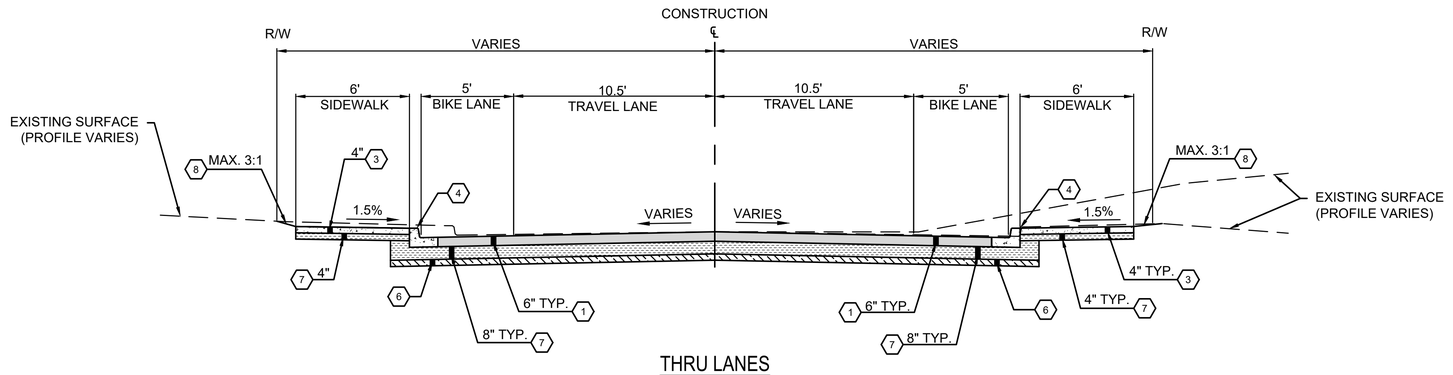
THRU LANES WITH LEFT TURNS

NTS STA "N" 15+06 TO 16+75 (SECTION MIRRORED IN THIS RANGE)
STA "N" 21+05 TO 23+15 (AS ABOVE)



THRU LANES WITH LEFT TURNS

NTS STA "N" 34+50.00 TO 36+79



THRU LANES

NTS STA "N" 36+79 TO 50+43

CONSTRUCTION NOTES

1. HMA CL. 1/2" PG58H–22, 2 LIFTS
2. HMA CL. 1/2" PG58H–22, SINGLE LIFT OVERLAY. GRIND DOWN 2" FROM EXISTING SURFACE AND OVERLAY TO FINISHED SURFACE LEVELS.
3. CEMENT CONC. SIDEWALK PER DETAIL 1 ON SHEET PVD1
4. CEMENT CONC. TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
5. CRUSHED SURFACING BASE COURSE PER WSDOT SECTION 9–03, THICKNESS AS NOTED.
6. CRUSHED SURFACING BASE COURSE PER WSDOT SECTION 9–03, THICKNESS TO BE CONFIRMED DURING 100% DESIGN STAGE.
7. CRUSHED SURFACING TOP COURSE, AS SECOND APPLICATION OF BASE COURSE MATERIAL
8. LANDSCAPE / TOPSOIL AND SEED
9. COMPACTED SUBGRADE 95% MDD

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE PAVING PLAN FOR VARIABLE WIDTHS, MEDIAN LOCATIONS, AND LIMITS OF CURB.
3. SEE PAVING PLANS AND INTERSECTION GRADING PLANS FOR ROADWAY SUPERELEVATION CHANGES AND GRADE DEVIATIONS FROM TYPICAL SLOPES SHOWN.
4. SEE SHEET PVD4 FOR SECTION BETWEEN STA "N" 27+98 AND "N" 28+48.

LEGEND

- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT
- CRUSHED SURFACING BASE COURSE
- CRUSHED SURFACING TOP COURSE
- COMPACTED SUBGRADE
- EXISTING HMA PAVEMENT
- EXISTING GRAVEL
- LANDSCAPE (TOPSOIL AND SEED)
- EXISTING SURFACE

CAD FILE:

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ROBERT C. ACEVEDO
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0 1" 2"
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SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

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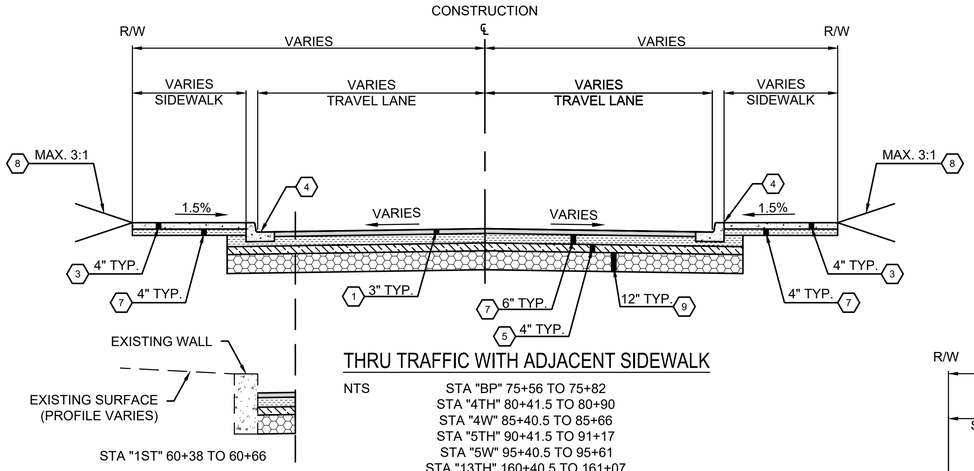
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
ROADWAY TYPICAL SECTIONS
MINOR ARTIERAL

PN: PROJNUM

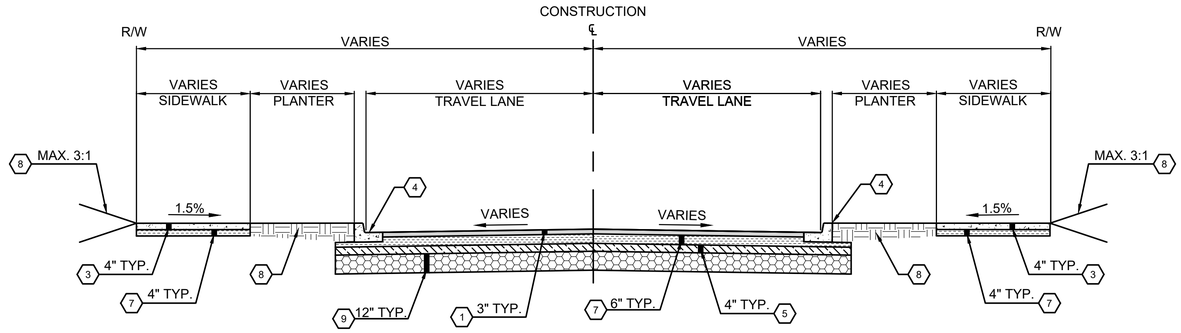
RS2
SHEET
5
OF
179



THRU TRAFFIC WITH ADJACENT SIDEWALK

NTS

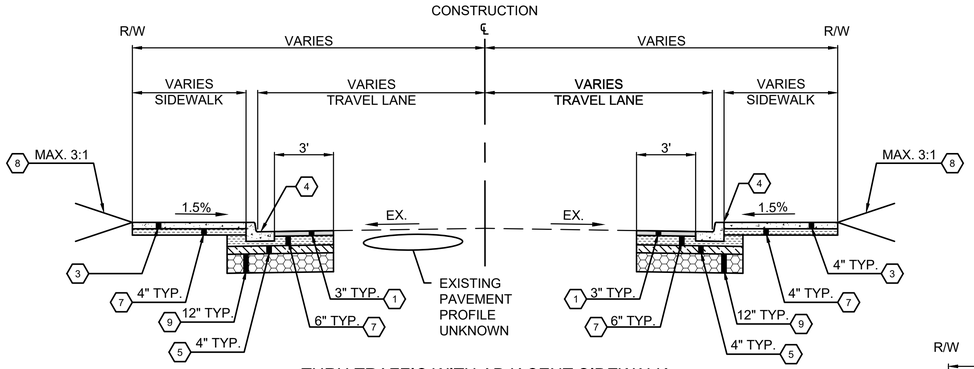
STA "BP" 75+56 TO 75+82
STA "4TH" 80+41.5 TO 80+90
STA "4W" 85+40.5 TO 85+66
STA "5TH" 90+41.5 TO 91+17
STA "5W" 95+40.5 TO 95+61
STA "13TH" 160+40.5 TO 161+07
STA "15TH" 169+28 TO 170+65.5



THRU TRAFFIC WITH ADJACENT PLANTER AND SIDEWALK

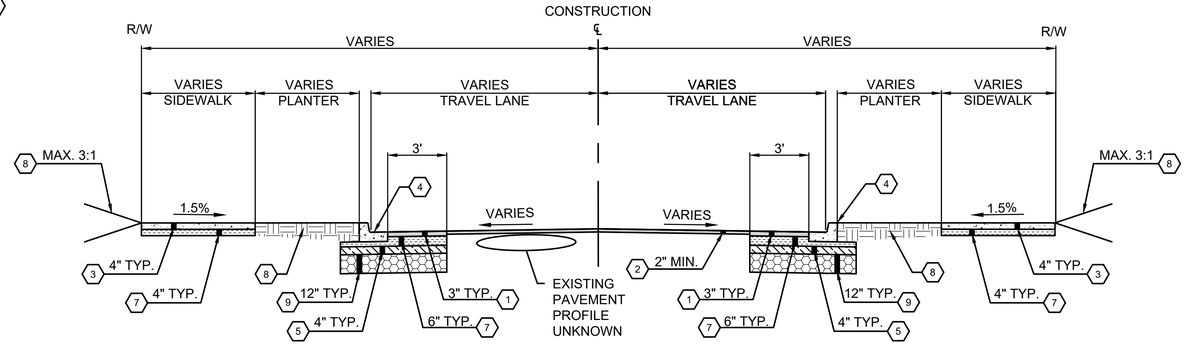
NTS

STA "7TH" 104+25 TO 105+75
STA "8TH" 116+22.5 TO 118+00
STA "9TH" 125+41 TO 125+76
STA "10TH" 136+51 TO 138+00



THRU TRAFFIC WITH ADJACENT SIDEWALK

NTS STA "13TH" 161+07 TO 162+67



THRU TRAFFIC WITH ADJACENT PLANTER AND SIDEWALK

NTS STA "G" 65+41.5 TO 66+62

CONSTRUCTION NOTES

1. HMA CL. 1/2" PG58H–22, 2 LIFTS
2. HMA CL. 1/2" PG58H–22, SINGLE LIFT OVERLAY. GRIND DOWN 2" FROM EXISTING SURFACE AND OVERLAY TO FINISHED SURFACE LEVELS.
3. CEMENT CONC. SIDEWALK PER DETAIL 1 ON SHEET PVD1
4. CEMENT CONC. TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
5. CRUSHED SURFACING BASE COURSE PER WSDOT SECTION 9–03, THICKNESS AS NOTED.
6. CRUSHED SURFACING BASE COURSE PER WSDOT SECTION 9–03, THICKNESS TO BE CONFIRMED DURING 100% DESIGN STAGE.
7. CRUSHED SURFACING TOP COURSE, AS SECOND APPLICATION OF BASE COURSE MATERIAL
8. LANDSCAPE / TOPSOIL AND SEED
9. COMPACTED SUBGRADE 95% MDD

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE PAVING PLAN FOR VARIABLE WIDTHS, MEDIAN LOCATIONS, AND LIMITS OF CURB.
3. SEE PAVING PLANS AND INTERSECTION GRADING PLANS FOR ROADWAY SUPERELEVATION CHANGES AND GRADE DEVIATIONS FROM TYPICAL SLOPES SHOWN.
4. SEE SHEET PVD4 FOR SECTION BETWEEN STA "N" 27+98 AND "N" 28+48.

LEGEND

- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT
- CRUSHED SURFACING BASE COURSE
- CRUSHED SURFACING TOP COURSE
- COMPACTED SUBGRADE
- EXISTING HMA PAVEMENT
- EXISTING GRAVEL
- LANDSCAPE (TOPSOIL AND SEED)
- EXISTING SURFACE

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
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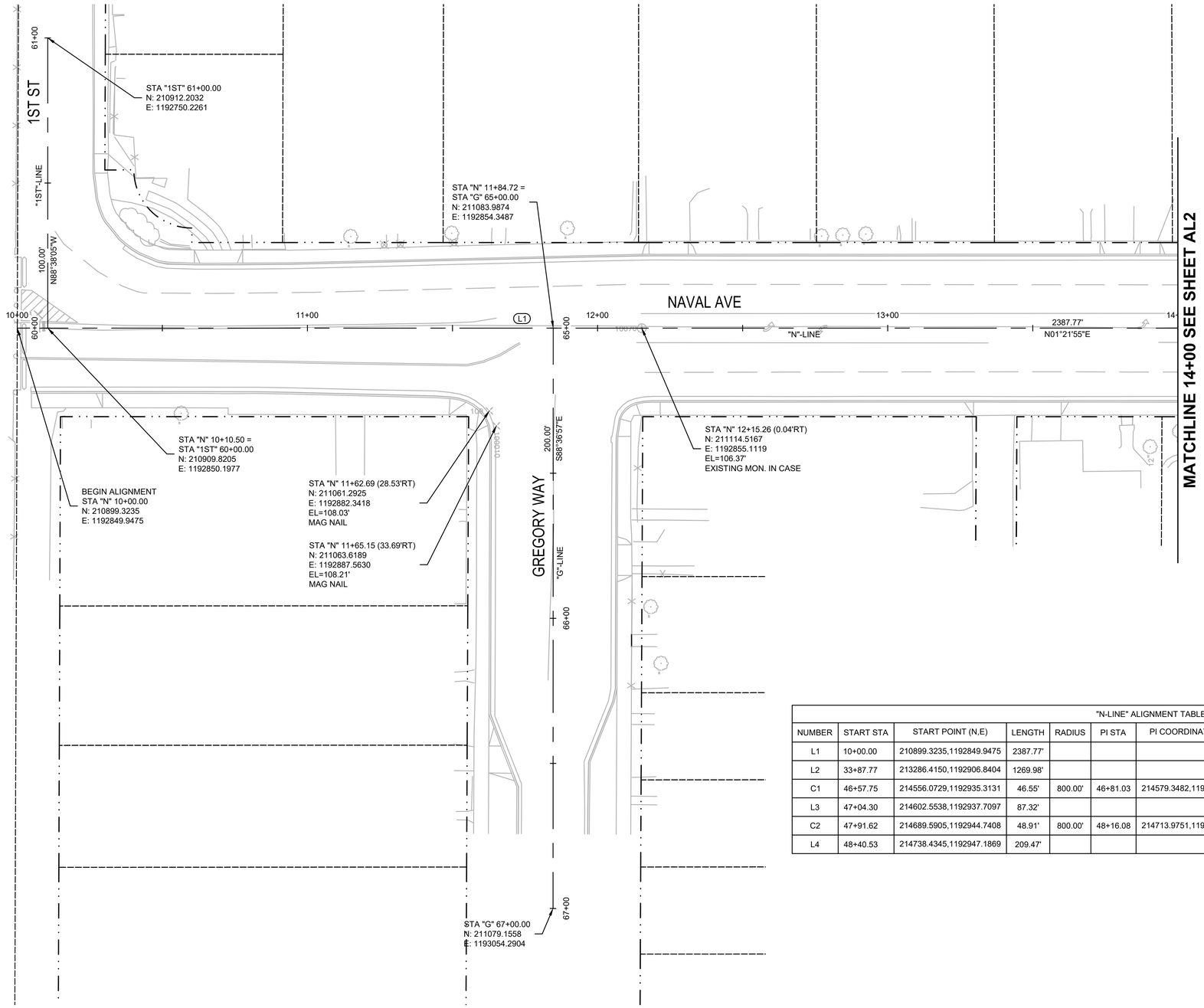
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
ROADWAY TYPICAL SECTIONS
COLLECTOR AND LOCAL ACCESS

PN. PROJNUM

RS3
SHEET 6 OF 179



LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

N

20' 0' 20' 40'
HORZ SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

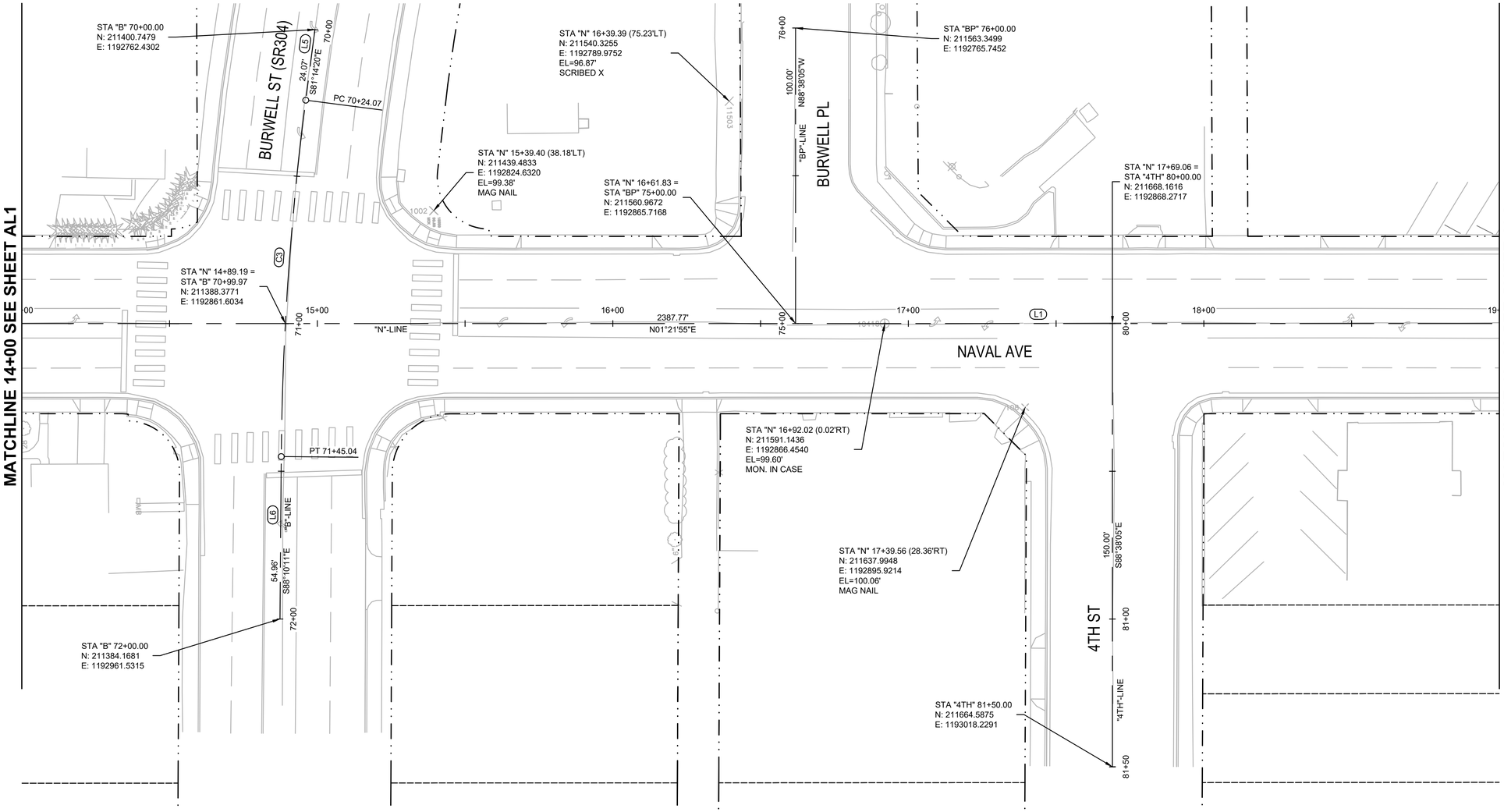
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS BEGIN TO STA 14+00

PN: PROJNUM

AL1
SHEET
7
OF
179



LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

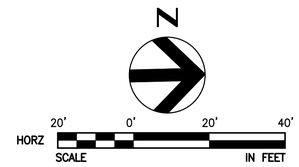
1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

"B-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L5	70+00.00	211400.7479,1192762.4302	24.07'					S81°14'20"E	70+24.07	211397.0813,1192786.22152
C3	70+24.07	211397.0813,1192786.2215	120.97'	1000.00'	70+84.63	211387.8576,1192846.0717	6°55'50"		71+45.04	211385.9235,1192906.5975
L6	71+45.04	211385.9235,1192906.5975	54.96'					S88°10'11"E	72+00.00	211384.1681,1192961.53149



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

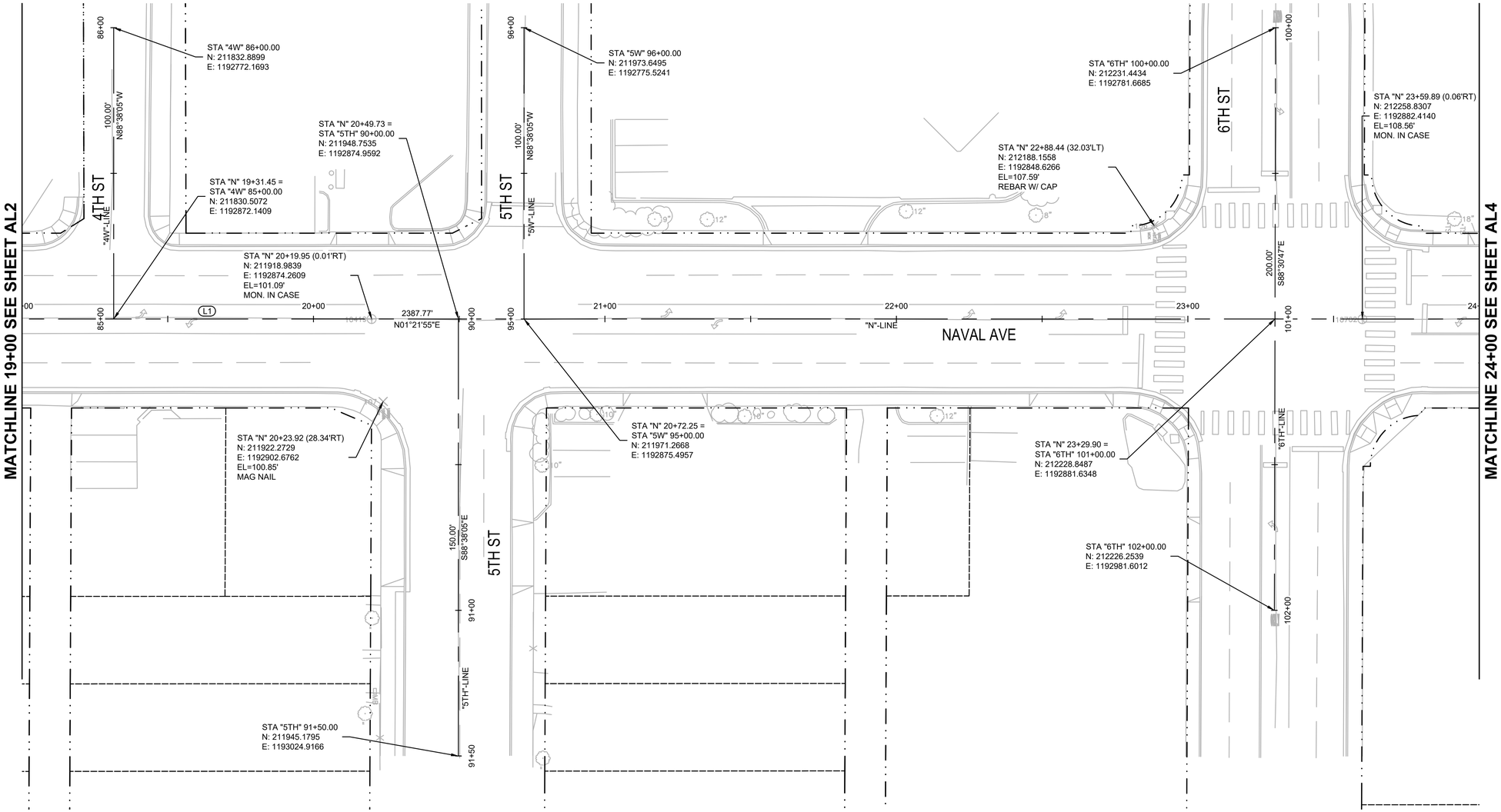
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 14+00 TO STA 19+00

PN: PROJNUM

AL2
SHEET
8
OF
179



LEGEND

C#	CURVE SEGMENT
L#	LINE SEGMENT
———	PROPERTY LINE
— · —	R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

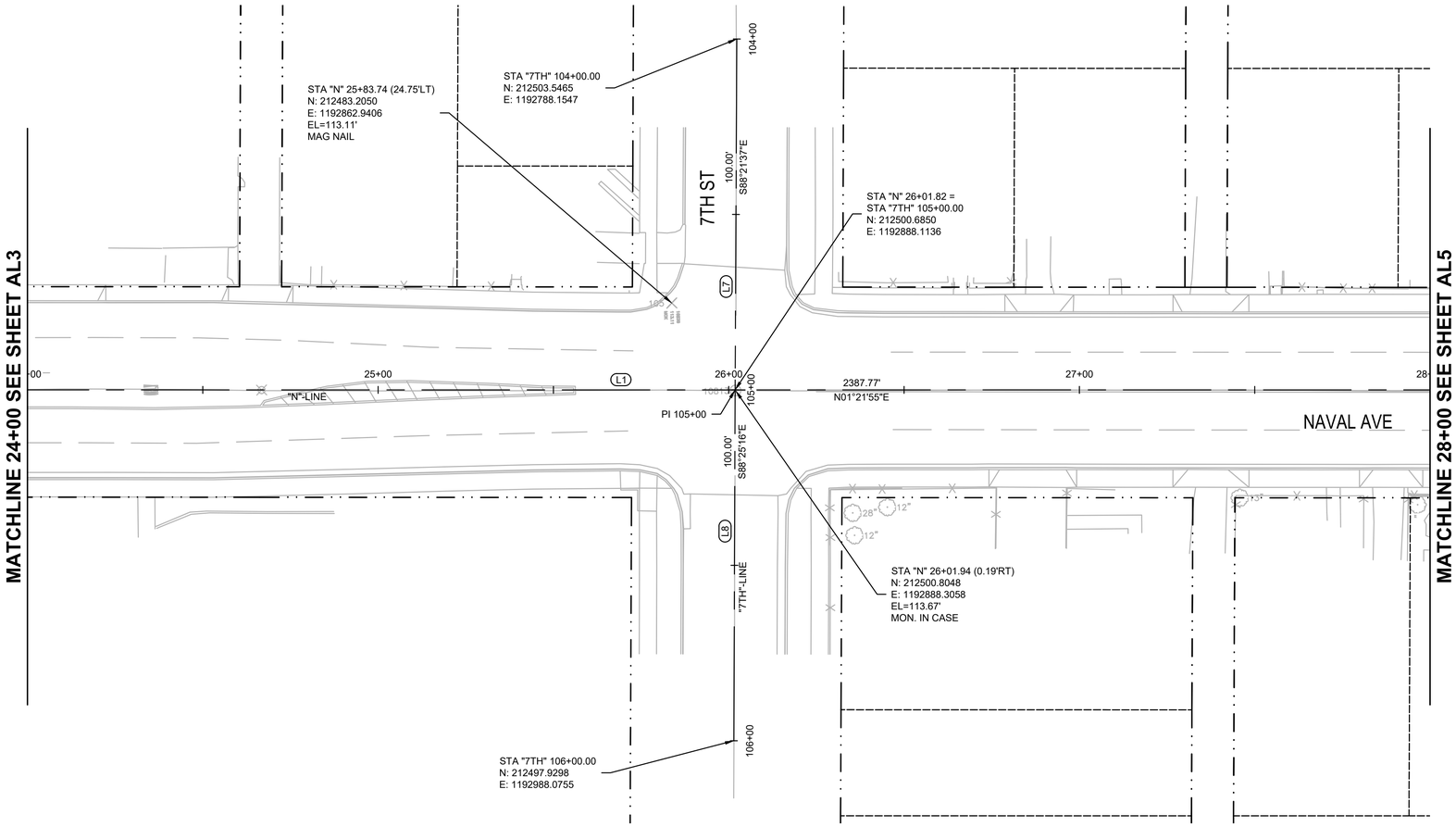
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 19+00 TO STA 24+00

PN: PROJNUM

AL3
SHEET
9
OF
179



LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

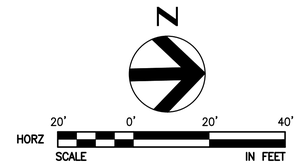
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE										
NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

"7TH-LINE" ALIGNMENT TABLE						
NUMBER	START STA	START POINT (N,E)	LENGTH	BEARING	END STA	END POINT
L7	104+00.00	212503.55,1192788.15	100.00'	S88°21'37"E	105+00.00	212500.69,1192888.11
L8	105+00.00	212500.69,1192888.11	100.00'	S88°25'16"E	106+00.00	212497.93,1192988.08



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
ALIGNMENT AND SURVEY CONTROL PLANS
STA 24+00 TO STA 28+00

PN: PROJNUM

AL4
SHEET
10
OF
179

"N-LINE" ALIGNMENT TABLE										
NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

LEGEND

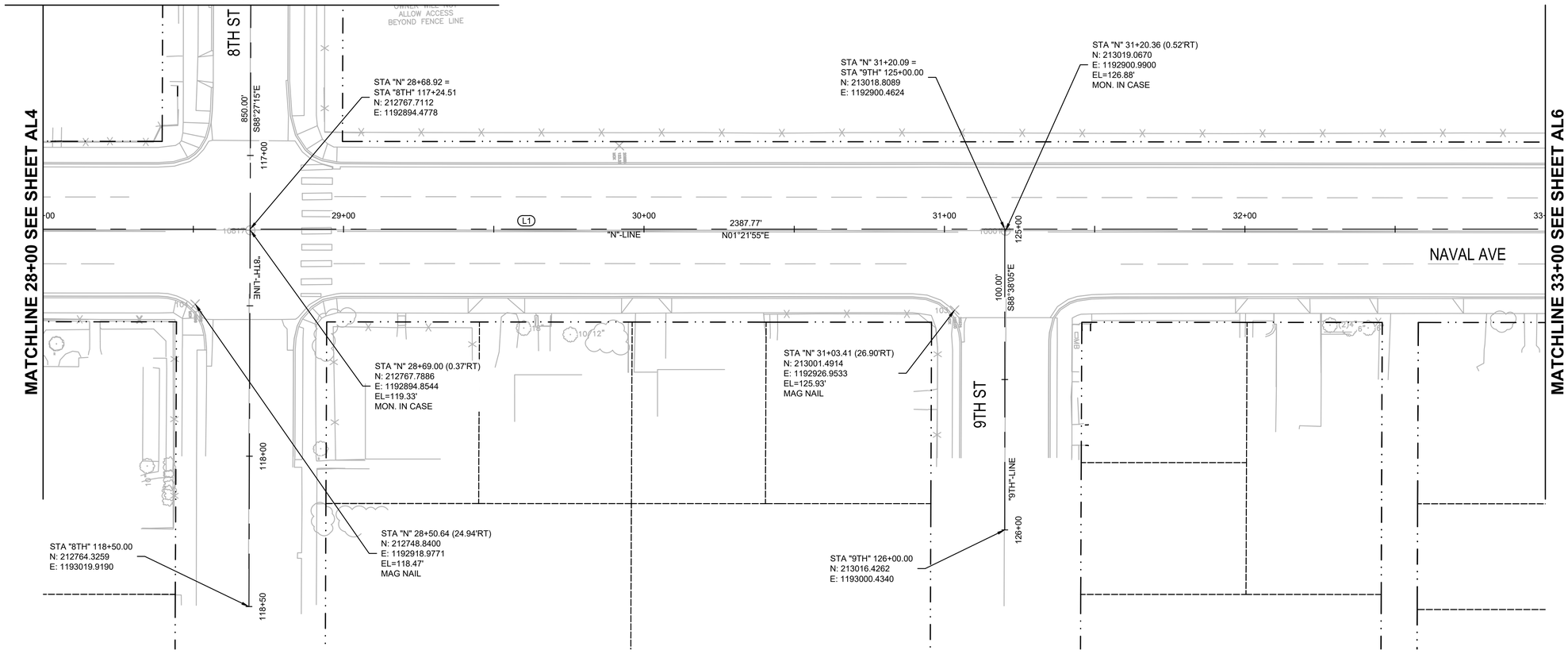
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- —— · · —— R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH–APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH–APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

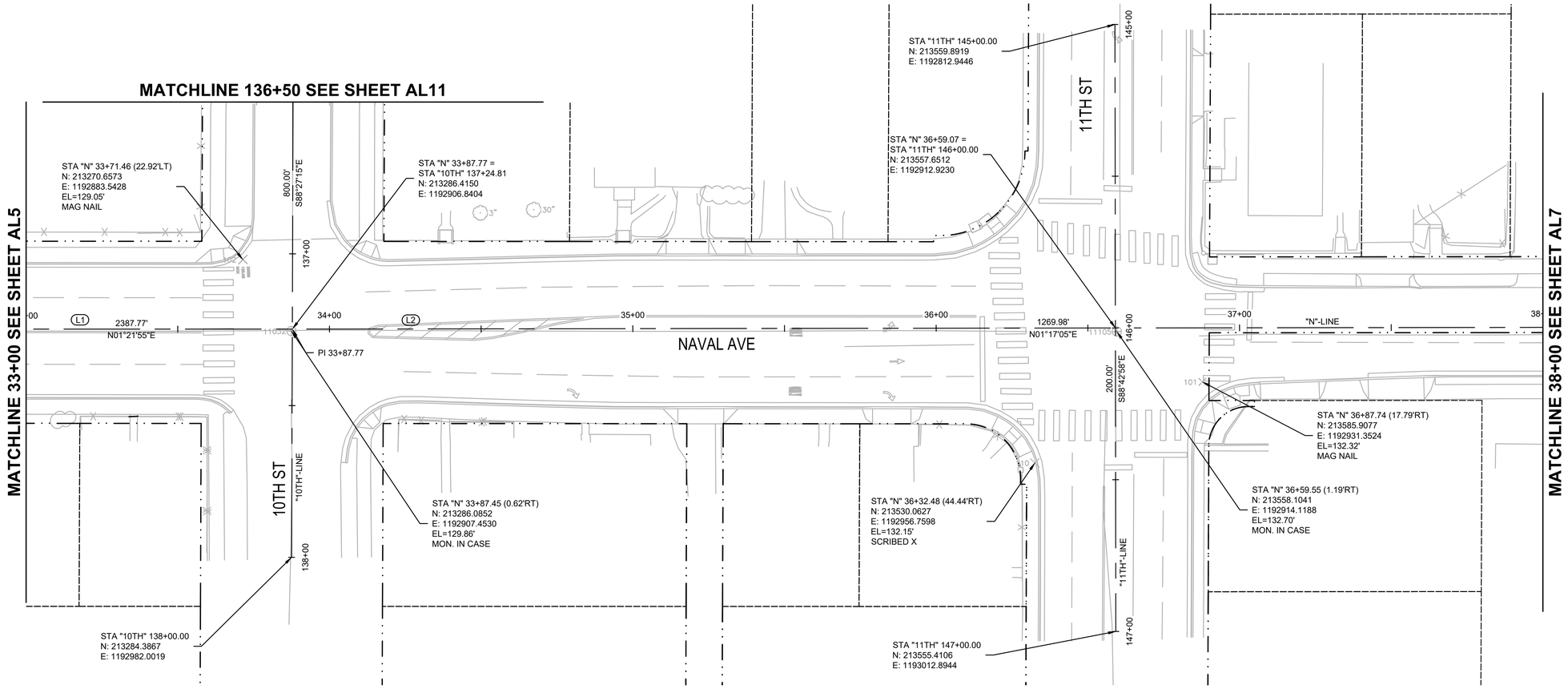
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 28+00 TO STA 33+00

PN: PROJNUM

AL5
SHEET
11
OF
179



LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

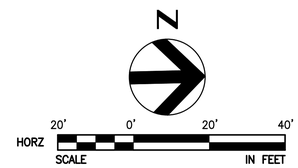
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

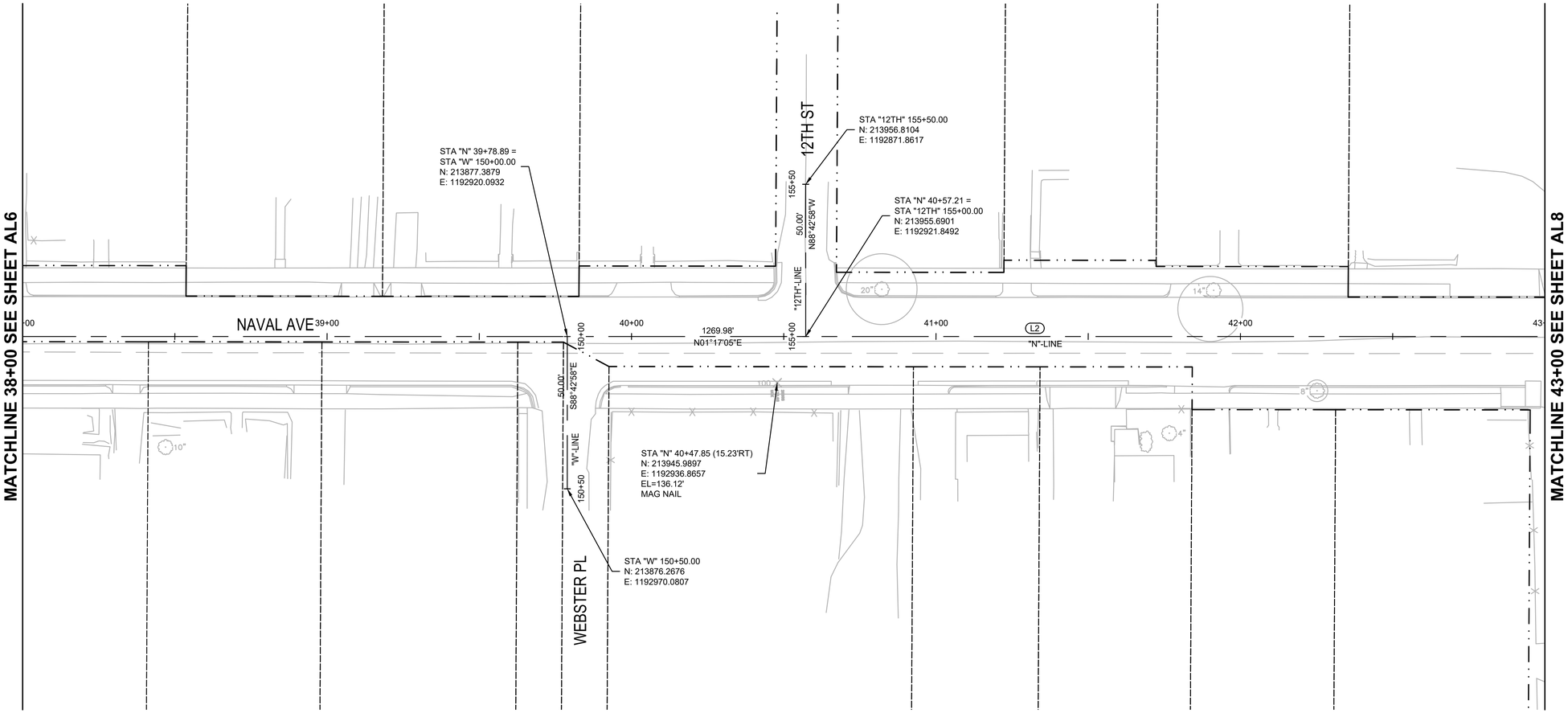
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 33+00 TO STA 38+00

PN: PROJNUM

AL6
SHEET
12
OF
179



LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

N

HORZ SCALE IN FEET 20' 0' 20' 40'

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

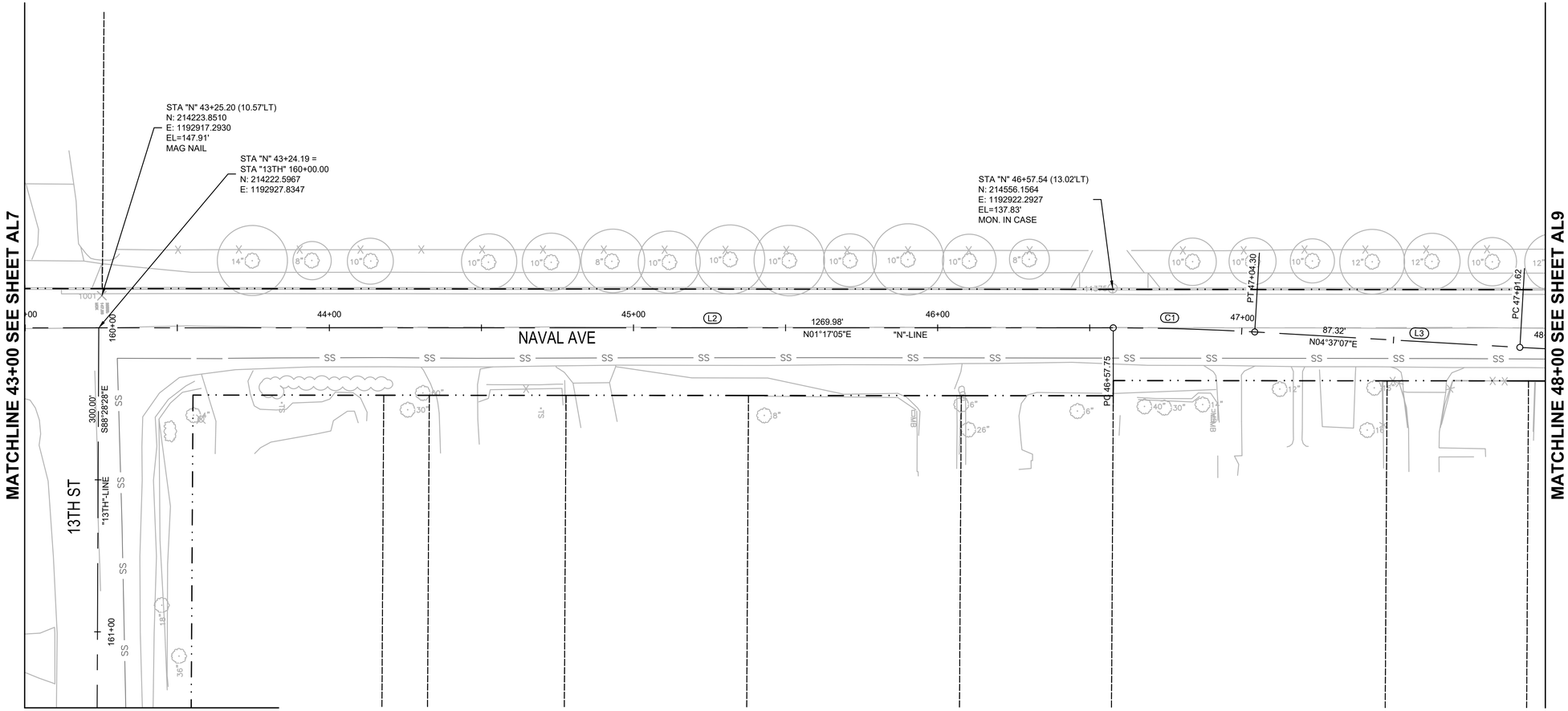
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

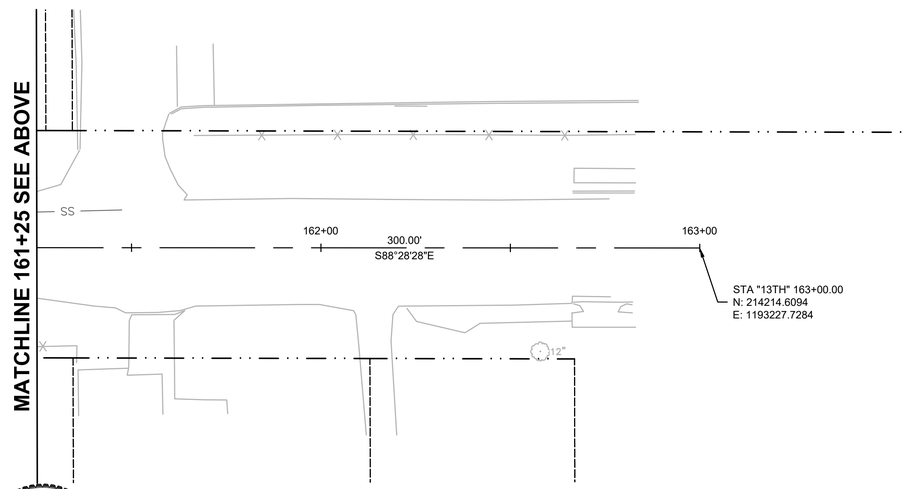
DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 38+00 TO STA 43+00

PN: PROJNUM

AL7
SHEET
13
OF
179





LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE										
NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
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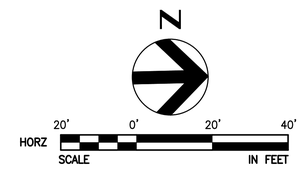
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

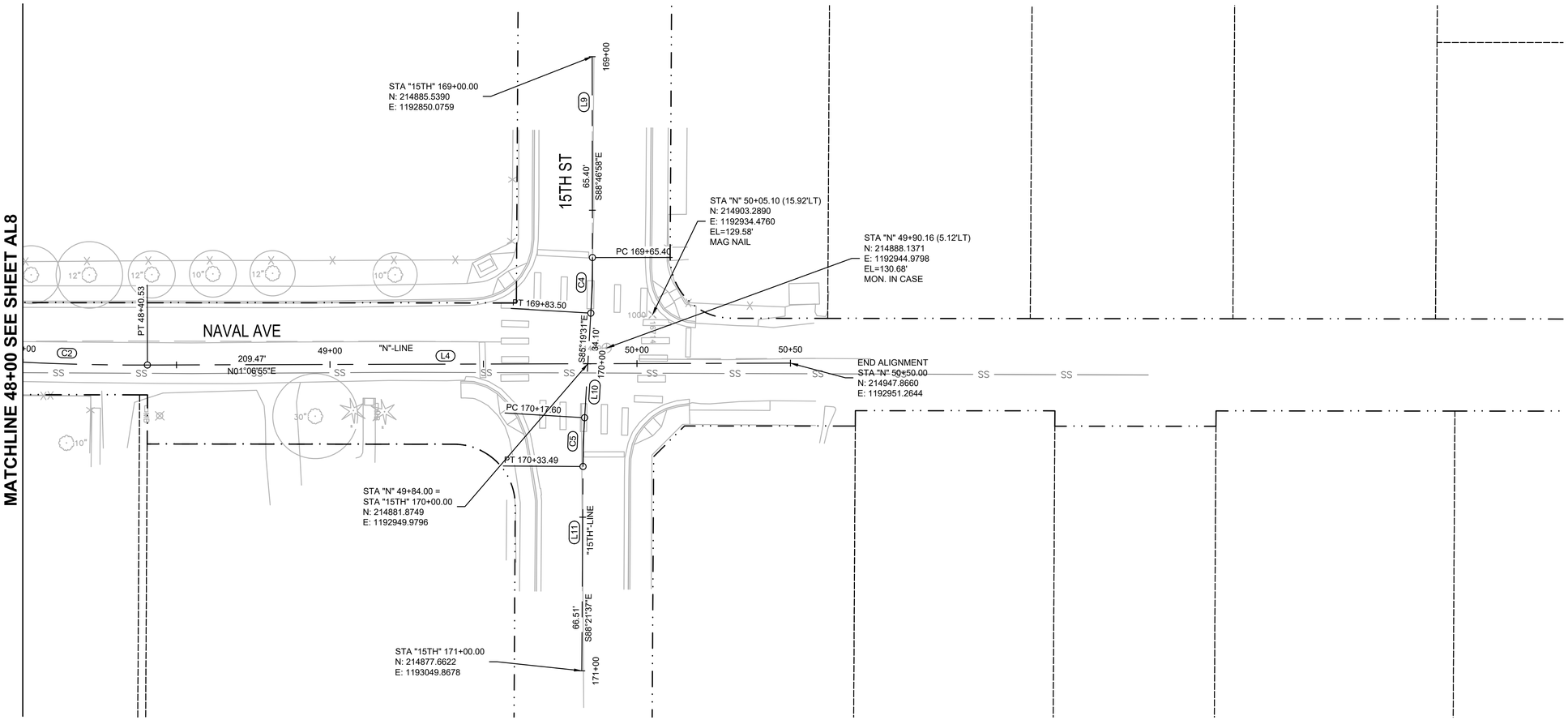
DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 43+00 TO STA 48+00

PN: PROJNUM

AL8
SHEET
14
OF
179

MATCHLINE 48+00 SEE SHEET AL8



LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
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SURVEY NOTES

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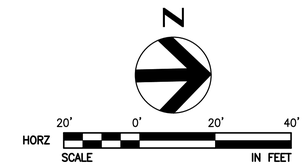
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.

"N-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L1	10+00.00	210899.3235,1192849.9475	2387.77'					N01°21'55"E	33+87.77	213286.4150,1192906.84037
L2	33+87.77	213286.4150,1192906.8404	1269.98'					N01°17'05"E	46+57.75	214556.0729,1192935.31308
C1	46+57.75	214556.0729,1192935.3131	46.55'	800.00'	46+81.03	214579.3482,1192935.8350	3°20'00"		47+04.30	214602.5538,1192937.7097
L3	47+04.30	214602.5538,1192937.7097	87.32'					N04°37'07"E	47+91.62	214689.5905,1192944.74078
C2	47+91.62	214689.5905,1192944.7408	48.91'	800.00'	48+16.08	214713.9751,1192946.7107	3°30'10"		48+40.53	214738.4345,1192947.1869
L4	48+40.53	214738.4345,1192947.1869	209.47'					N01°06'55"E	50+50.00	214947.8660,1192951.26444

"15TH-LINE" ALIGNMENT TABLE

NUMBER	START STA	START POINT (N,E)	LENGTH	RADIUS	PI STA	PI COORDINATE (N,E)	DELTA	BEARING	END STA	END POINT (N,E)
L9	169+00.00	214885.5390,1192850.0759	65.40'					S88°46'58"E	169+65.40	214884.1495,1192915.46316
C4	169+65.40	214884.1495,1192915.4632	18.10'	300.00'	169+74.46	214883.9571,1192924.5153	3°27'30"		169+83.50	214883.2192,1192933.5394
L10	169+83.50	214883.2192,1192933.5394	34.10'					S85°19'31"E	170+17.60	214880.4403,1192967.52273
C5	170+17.60	214880.4403,1192967.5227	15.89'	300.00'	170+25.55	214879.7926,1192975.4439	3°02'10"		170+33.49	214879.5652,1192983.3883
L11	170+33.49	214879.5652,1192983.3883	66.51'					S88°21'37"E	171+00.00	214877.6622,1193049.86785



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

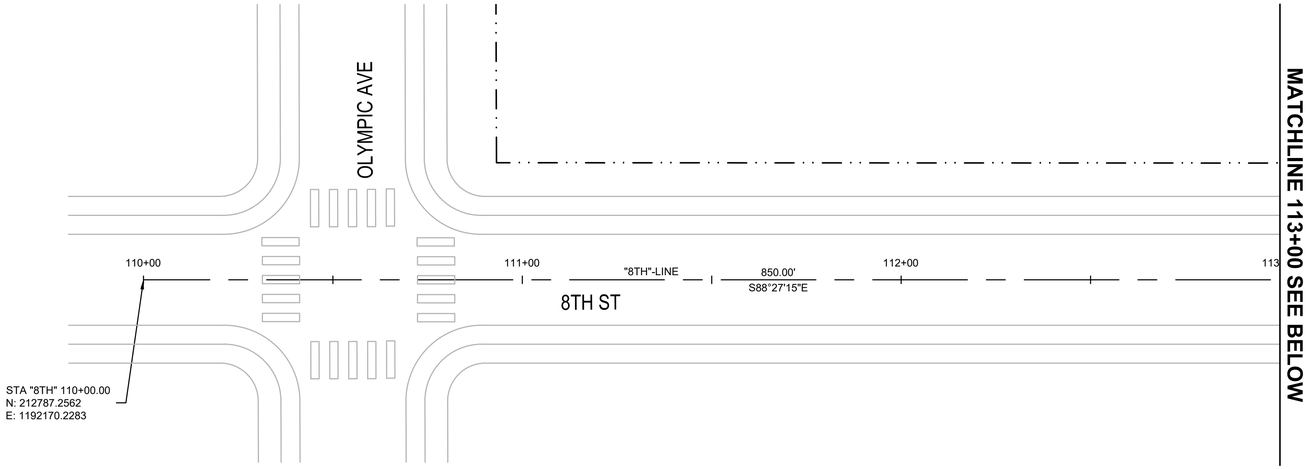
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

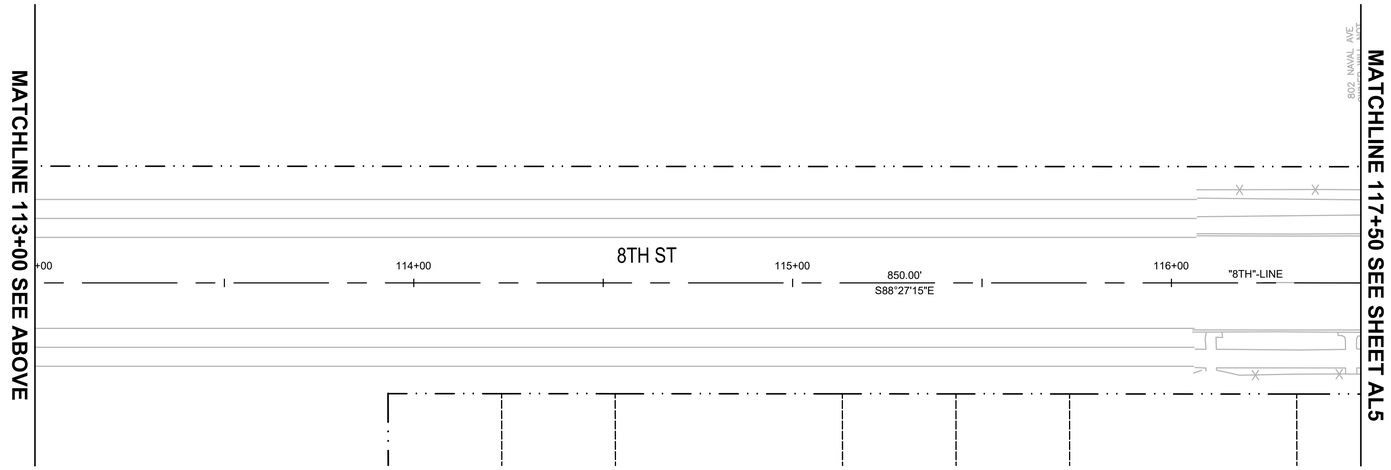
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS STA 48+00 TO END

PN: PROJNUM

AL9
SHEET
15
OF
179





LEGEND

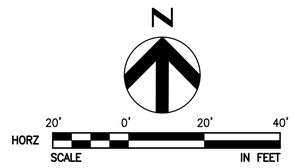
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.
3. COORDINATES ARE TO HORIZONTAL NORTH AMERICAN DATUM 1983/91 (NAD83/91).
4. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.

SURVEY NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

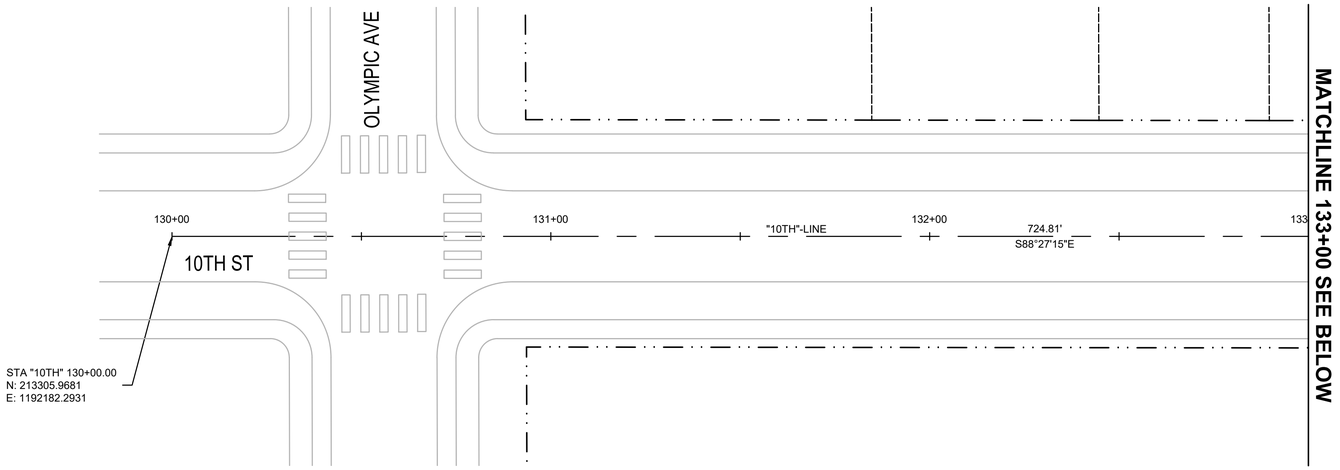
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

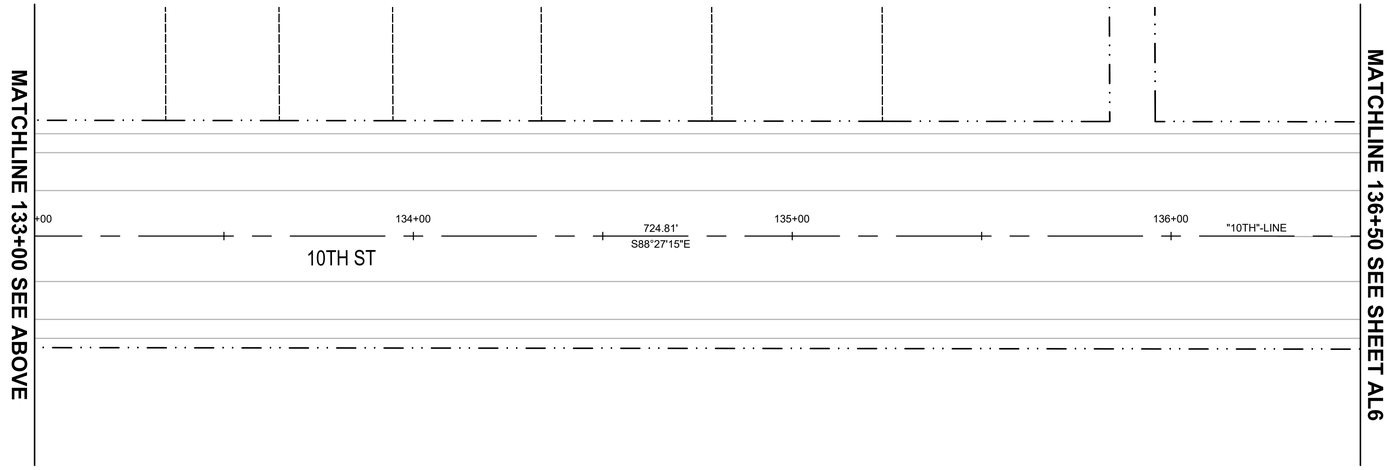
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT ALIGNMENT AND SURVEY CONTROL PLANS 8TH ST

PN: PROJNUM

AL10
SHEET
16
OF
179





LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

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SURVEY NOTES

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   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
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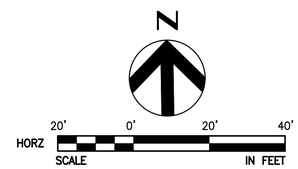


CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

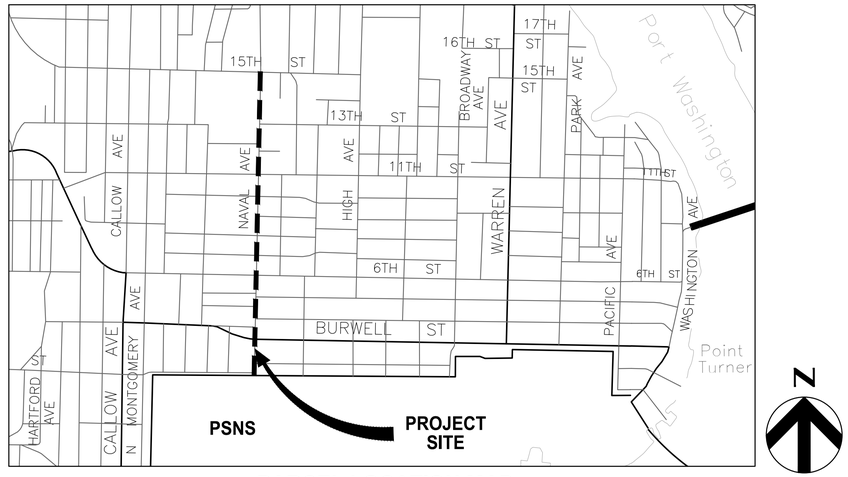
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
ALIGNMENT AND SURVEY CONTROL PLANS
10TH ST

PN: PROJNUM

AL11
SHEET
17
OF
179



PARCEL LOCATION MAP

NOT TO SCALE

TOTAL PARCEL	No. OF PARCELS	AREA (S.F.)
PERMANENT ACQUISITION (FEE)	39	24,709
TEMPORARY CONSTRUCTION EASEMENT (TCE)	79	26,333

DATUM

HORIZONTAL DATUM:

PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.

VERTICAL DATUM:

NAVD88

BASIS OF BEARINGS:

WASHINGTON STATE PLAN COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID) N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]

LEGEND

- PROPERTY LINE
- EXISTING R/W LINE
- PROPOSED R/W LINE
- PROPOSED EASEMENT
- RIGHT-OF-WAY ACQUISITION
- TEMPORARY CONSTRUCTION EASEMENT

GENERAL NOTES

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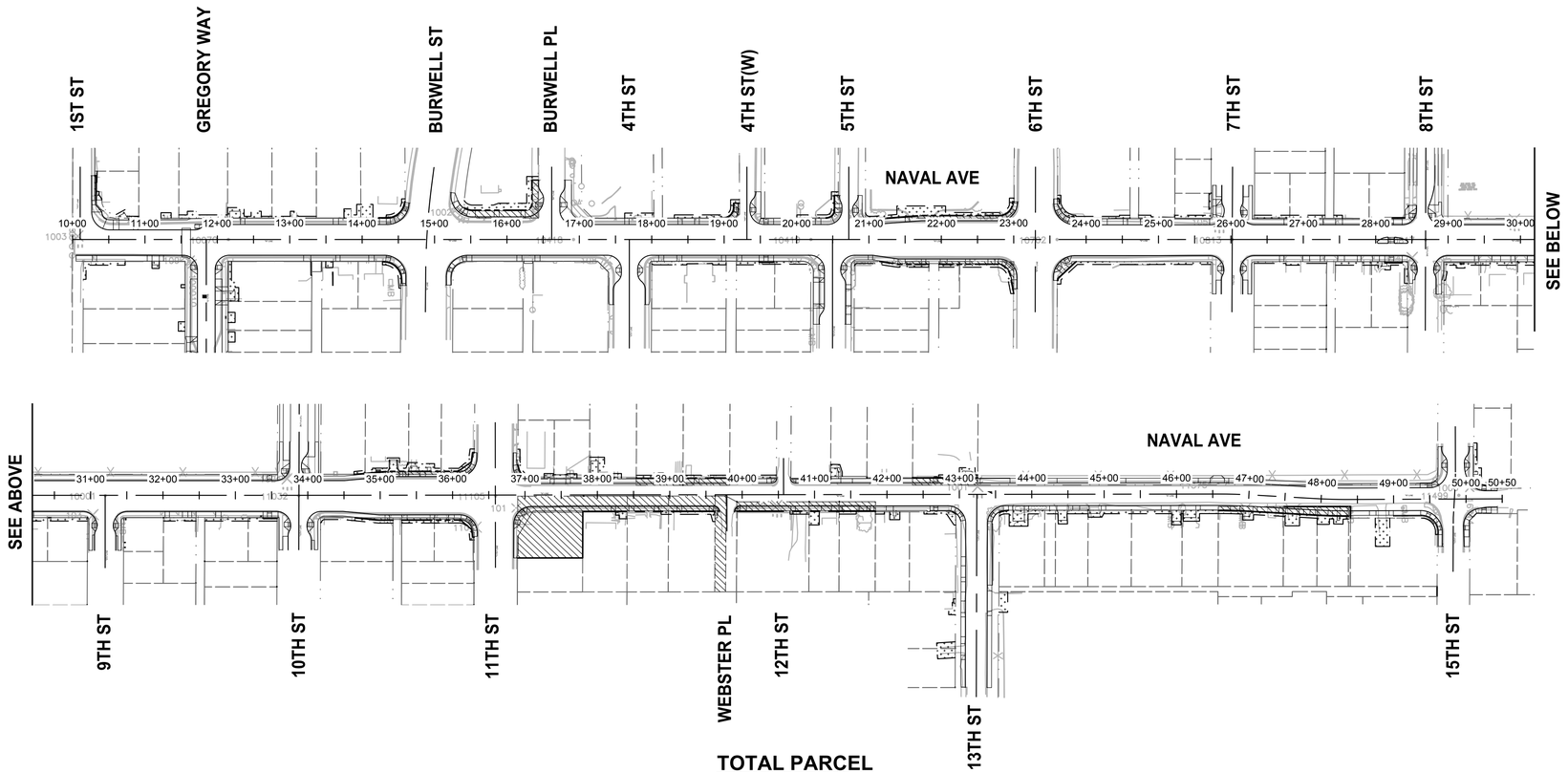


TOTAL PARCEL

SCALE: 1":100'

N

100' 0' 100' 200'

HORZ SCALE IN FEET

CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE

HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON

DEPARTMENT OF PUBLIC WORKS & UTILITIES

ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

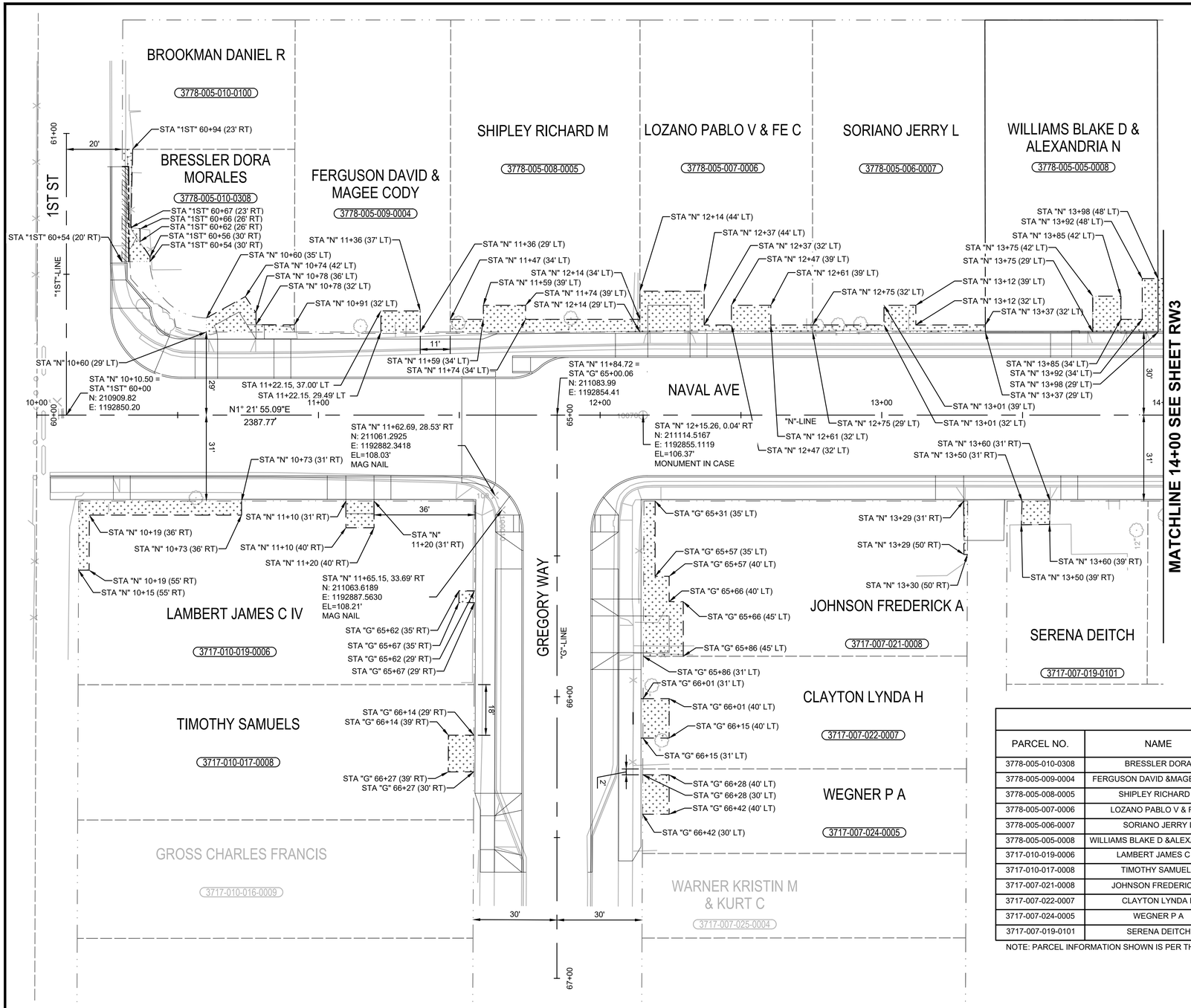
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT RIGHT OF WAY PLANS

PN: PROJNUM

RW1

SHEET 18 OF 179



LEGEND

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OWNERSHIP - EASEMENT

PARCEL NO.	NAME	TOTAL AREA (S.F.)	R/W ACQUISITION (S.F.)	TCE (S.F.)	REMAINDER (S.F.)
3778-005-010-0308	BRESSLER DORA	3540	80	304	3460
3778-005-009-0004	FERGUSON DAVID &MAGEE CODY	6124	0	105	6124
3778-005-008-0005	SHIPLEY RICHARD M	7453	0	379	7453
3778-005-007-0006	LOZANO PABLO V & FE C	6788	0	526	6788
3778-005-006-0007	SORIANO JERRY L	6788	0	233	6788
3778-005-005-0008	WILLIAMS BLAKE D &ALEXANDRIA N	6788	0	268	6788
3717-010-019-0006	LAMBERT JAMES C IV	9171	0	481	9171
3717-010-017-0008	TIMOTHY SAMUELS	6753	0	118	6753
3717-007-021-0008	JOHNSON FREDERICK A	6332	0	490	6332
3717-007-022-0007	CLAYTON LYNDA H	4600	0	130	4600
3717-007-024-0005	WEGNER P A	3450	0	132	3450
3717-007-019-0101	SERENA DEITCH	3252	0	158	3252

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

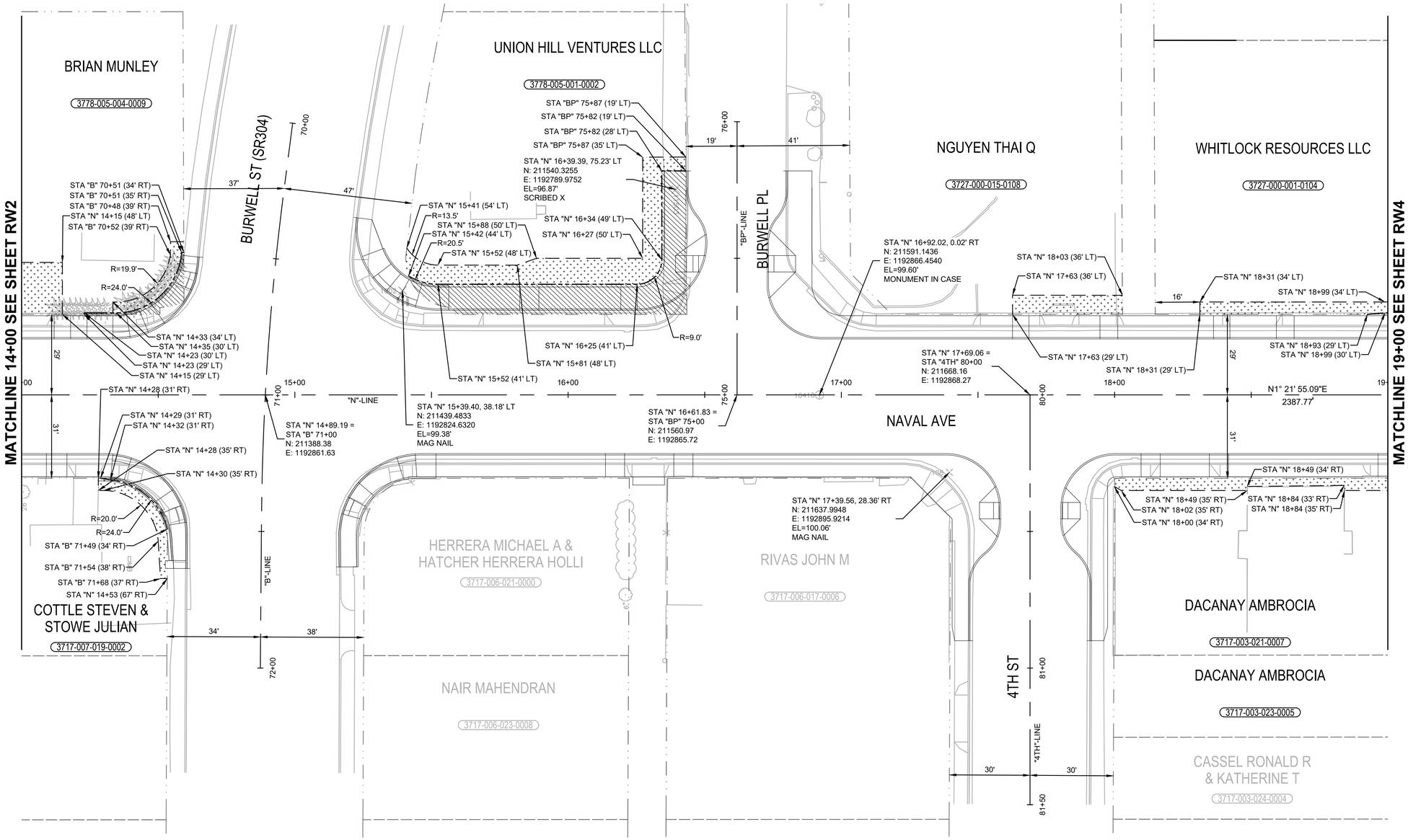
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: H. DANEL DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT RIGHT OF WAY PLANS

PN: PROJNUM

RW2
SHEET
19
OF
179



LEGEND

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3778-005-004-0009	BRIAN MUNLEY	6759	131	475	6628
3717-007-019-0002	STEVEN COTTLE	3721	15	176	3706
3778-005-001-0002	UNION HILL VENTURES LLC	10671	1428	1072	9243
3727-000-015-0108	NGUYEN THAI Q	14872	0	282	14872
3727-000-001-0104	WHITLOCK RESOURCES LLC	10662	201	468	10461
3717-003-021-0007	DACANAY AMBROCIA	6664	0	399	6664
3717-003-023-0005	DACANAY AMBROCIA	3091	0	0	3091
TOTAL OF LARGER PARCEL DETERMINATION (LPD):	DACANAY AMBROCIA	9755	0	399	9755

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS

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20' 0' 20' 40'
HORZ SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. SHOWN VERT. N/A

FIELD BOOK

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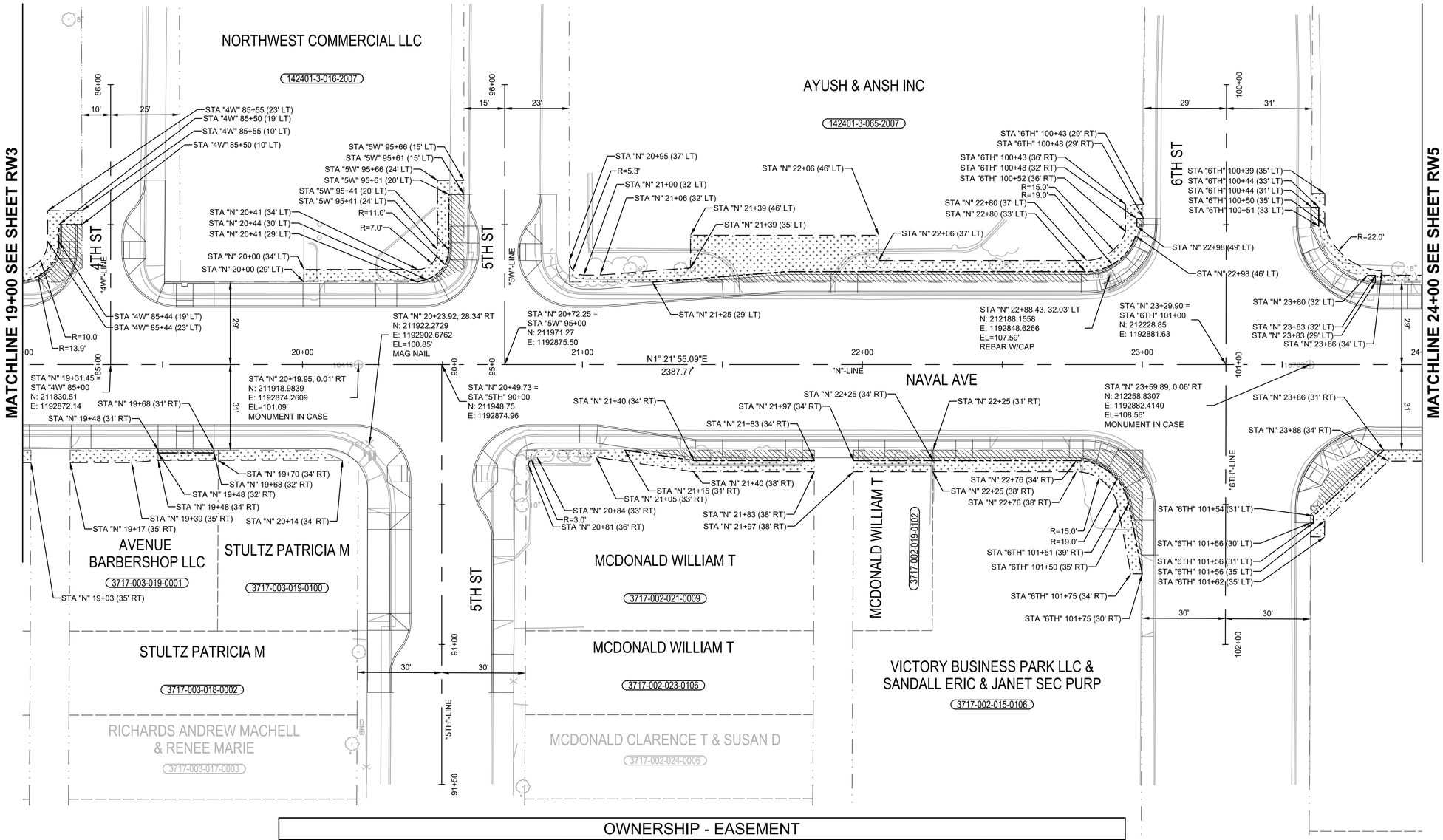
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: H. DANEL DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT RIGHT OF WAY PLANS

PN: PROJNUM

RW3
SHEET 20 OF 179



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142401-3-016-2007	NORTHWEST COMMERCIAL LLC	17549	177	367	17372
3717-003-019-0001	AVENUE BARBERSHOP LLC	3425	21	195	3404
3717-003-019-0100	STULTZ PATRICIA M	3190	0	145	3190
3717-003-018-0002	STULTZ PATRICIA M	3091	0	0	3091
TOTAL OF LARGER PARCEL DETERMINATION (LPD):	STULTZ PATRICIA M	6281	0	145	6281
142401-3-065-2007	AYUSH & ANSH INC	34910	523	1504	34387
3717-002-021-0009	MCDONALD WILLIAM T	6647	208	372	6439
3717-002-019-0102	MCDONALD WILLIAM T	1830	106	113	1724
3717-002-023-0106	MCDONALD WILLIAM T	3091	0	0	3091
TOTAL OF LARGER PARCEL DETERMINATION (LPD):	MCDONALD WILLIAM T	11568	314	485	11254
3717-002-015-0106	VICTORY BUSINESS PARK LLC &	17247	493	400	16754

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
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HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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CITY OF BREMERTON
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ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
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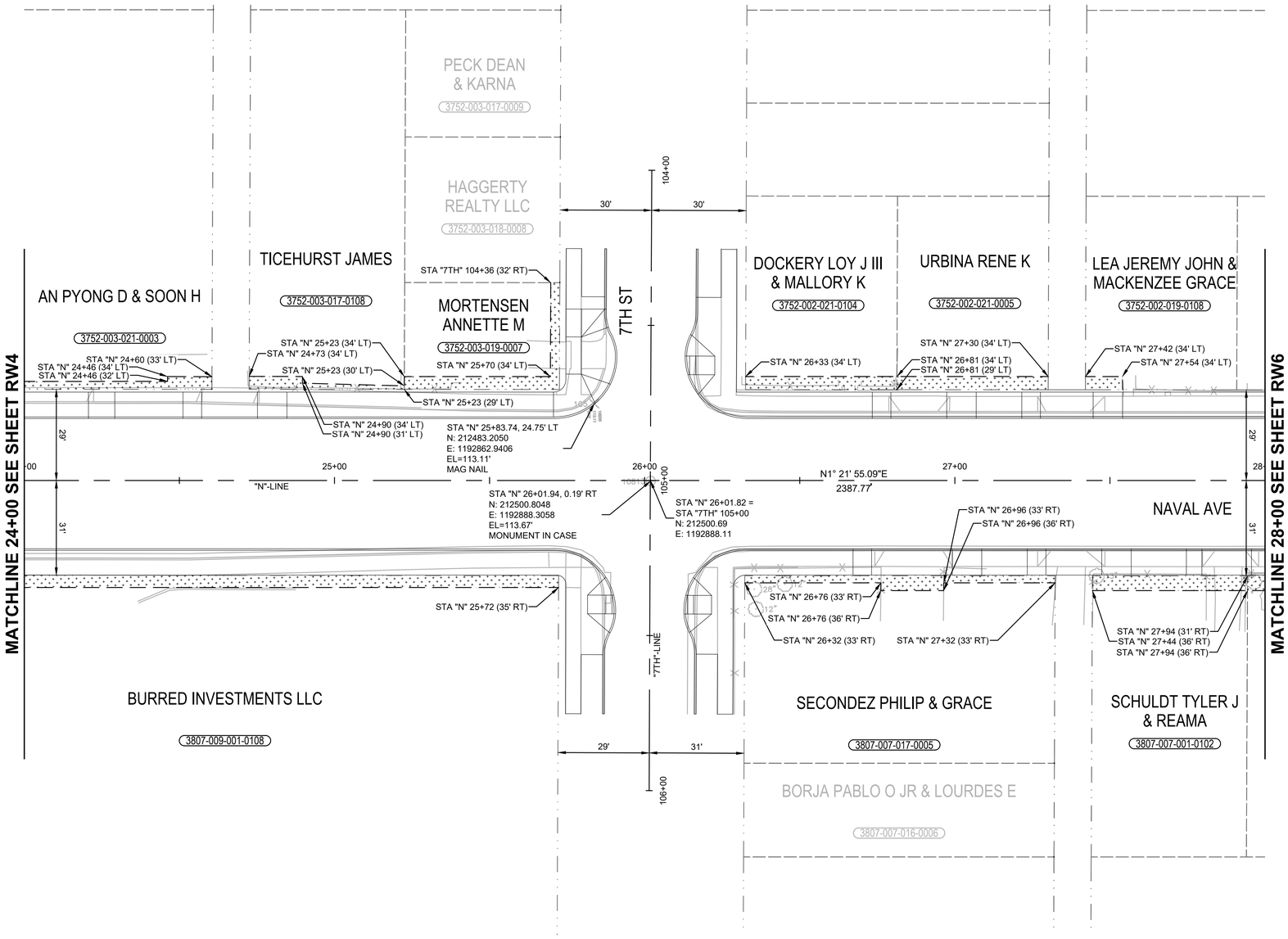
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT RIGHT OF WAY PLANS

PN: PROJNUM

RW4
SHEET
21
OF
179



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OWNERSHIP - EASEMENT

PARCEL NO.	NAME	TOTAL AREA (S.F.)	R/W ACQUISITION (S.F.)	TCE (S.F.)	REMAINDER (S.F.)
3752-003-021-0003	AN PYONG D & SOON H	12080	0	350	12080
3752-003-017-0108	TICEHURST JAMES	6119	0	123	6119
3752-003-019-0007	MORTENSEN ANNETTE M	1723	0	297	1723
3807-009-001-0108	BURRED INVESTMENTS LLC	28704	163	882	28541
3752-002-021-0104	DOCKERY LOY J III	3044	0	206	3044
3752-002-021-0005	URBINA RENE K	3043	0	207	3043
3807-007-017-0005	SECONDEZ PHILIP & GRACE	6048	0	278	6048
3752-002-019-0108	LEA JEREMY JOHN & MACKENZEE GRACE	3043	0	51	3043
3807-007-001-0102	SCHULDT TYLER J	4534	0	237	4534

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HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
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NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT RIGHT OF WAY PLANS

PN: PROJNUM

RW5
SHEET
22
OF
179

OWNERSHIP - EASEMENT					
PARCEL NO.	NAME	TOTAL AREA (S.F.)	R/W ACQUISITION (S.F.)	TCE (S.F.)	REMAINDER (S.F.)
3752-002-019-0009	KEYL STEPHEN &ANNE MARIE	3042	23	0	3019
3807-007-001-0003	MONTEMAYOR JOSE G JR	4533	30	428	4503
3807-005-017-0108	ENTO JANUARY D	3069	0	377	3069
3807-005-017-0009	SZATHMARY LARS S	3068	0	235	3068
3807-005-001-0304	SOULE JAMES A	2692	0	205	2692
3807-005-001-0205	STONE BRANDON C	3322	0	252	3322
3807-003-016-0104	BERNARDINO ESTELITA S	4070	0	202	4070
3807-003-001-0101	CYGNOR JENNIFER	3617	0	268	3617

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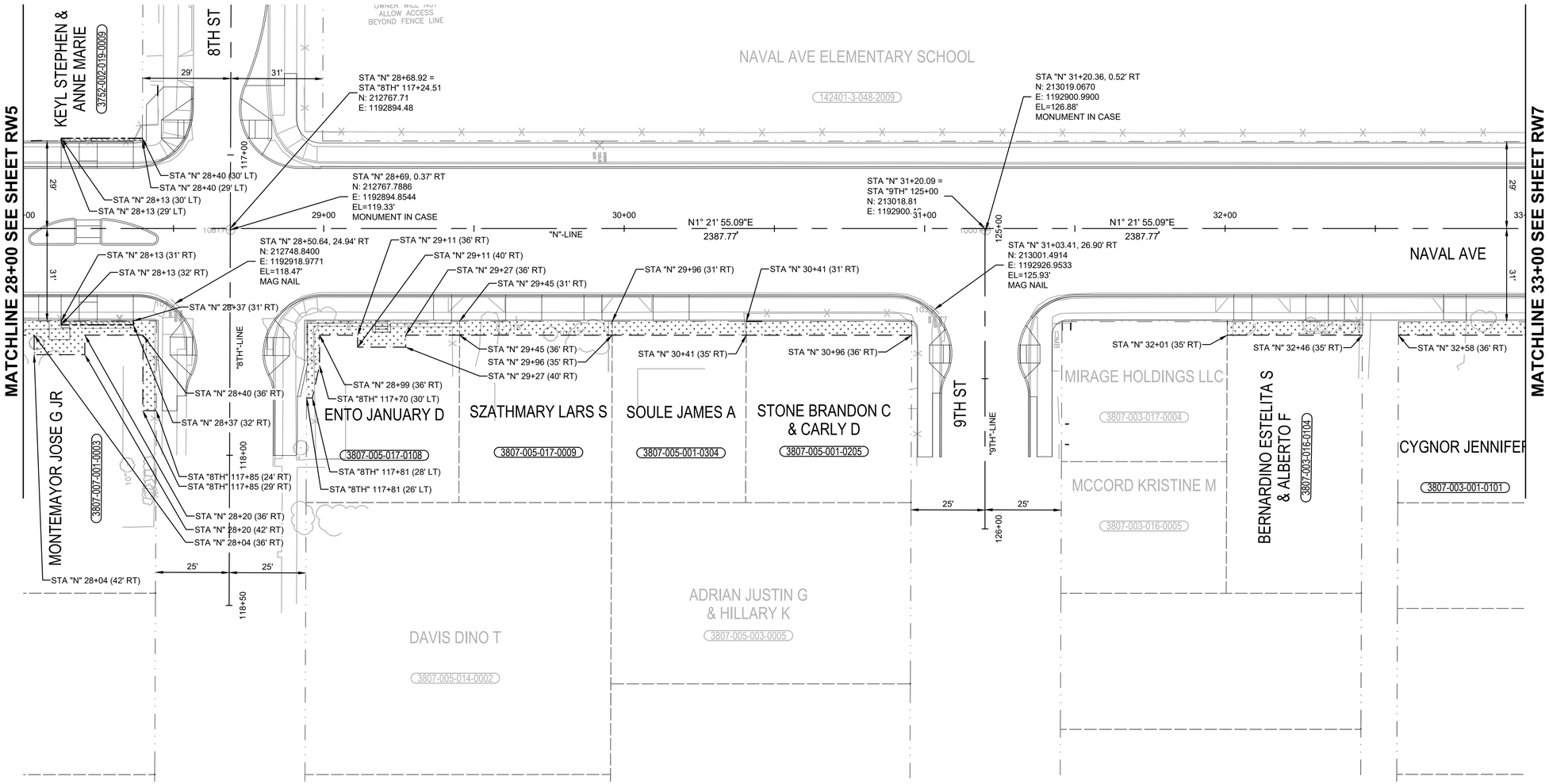

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ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

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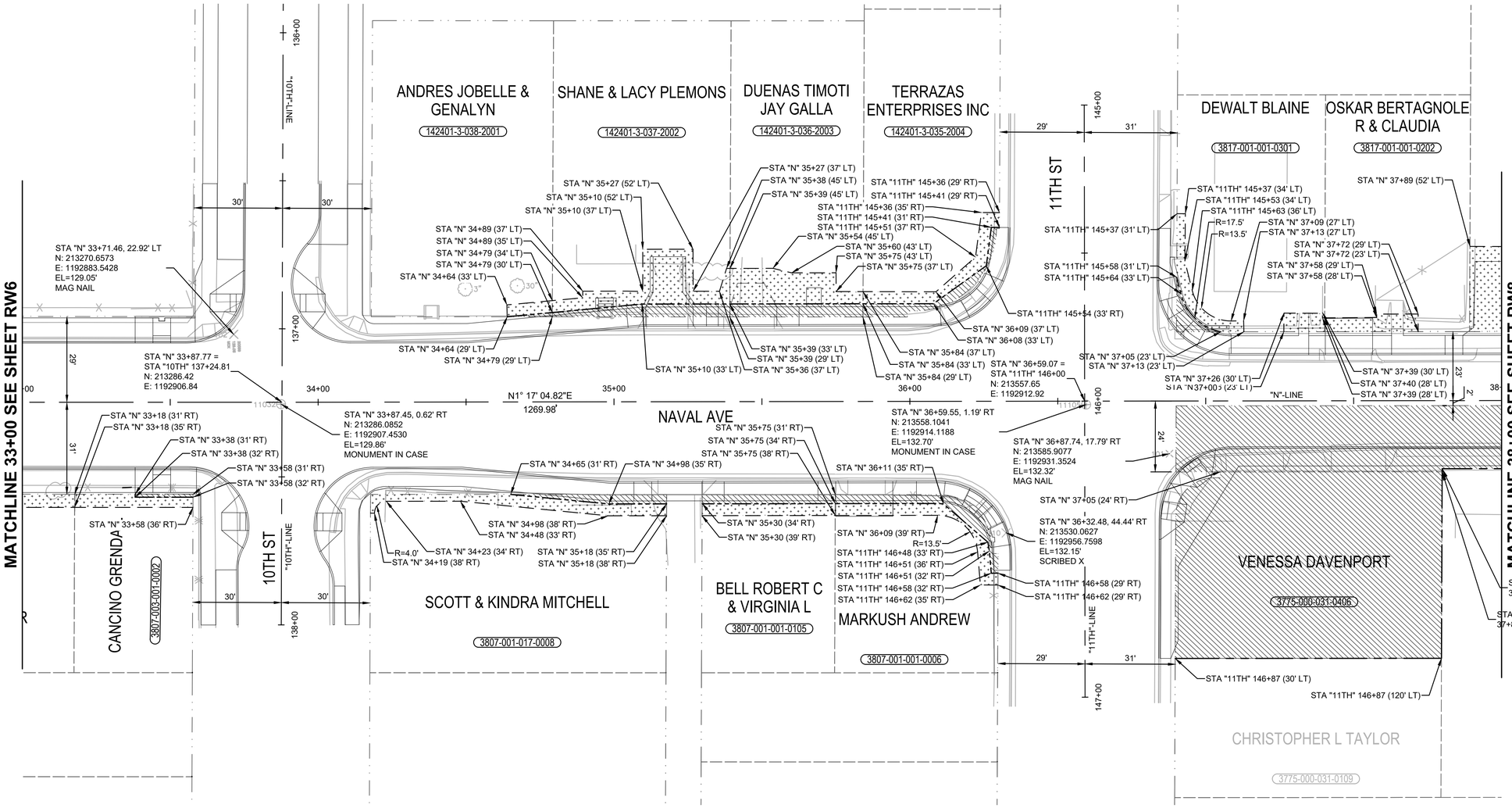
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT RIGHT OF WAY PLANS

P.N. PROJNUM

RW6
SHEET
23
OF
179



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3807-003-001-0002	CANCINO GRENDA L	2411	19	159	2392
142401-3-038-2001	ANDRES JOBELLE &	6119	11	61	6108
142401-3-037-2002	SHANE & LACY PLEMONS	6000	216	533	5784
142401-3-036-2003	DUENAS TIMOTI	4500	199	441	4301
142401-3-035-2004	TERRAZAS ENTERPRISES INC	4528	166	248	4362
3807-001-017-0008	SCOTT & KINDRA MITCHELL	6028	115	343	5913
3807-001-001-0105	BELL ROBERT C	2709	136	183	2573
3807-001-001-0006	MARKUSH ANDREW	3206	229	243	2977
3817-001-001-0301	DEWALT BLAINE	4005	75	266	3930
3817-001-001-0202	OSKAR BERTAGNOLE R & CLAUDIA	3920	0	167	3920
3775-000-031-0406	VENESSA DAVENPORT	5604	5604	0	0

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
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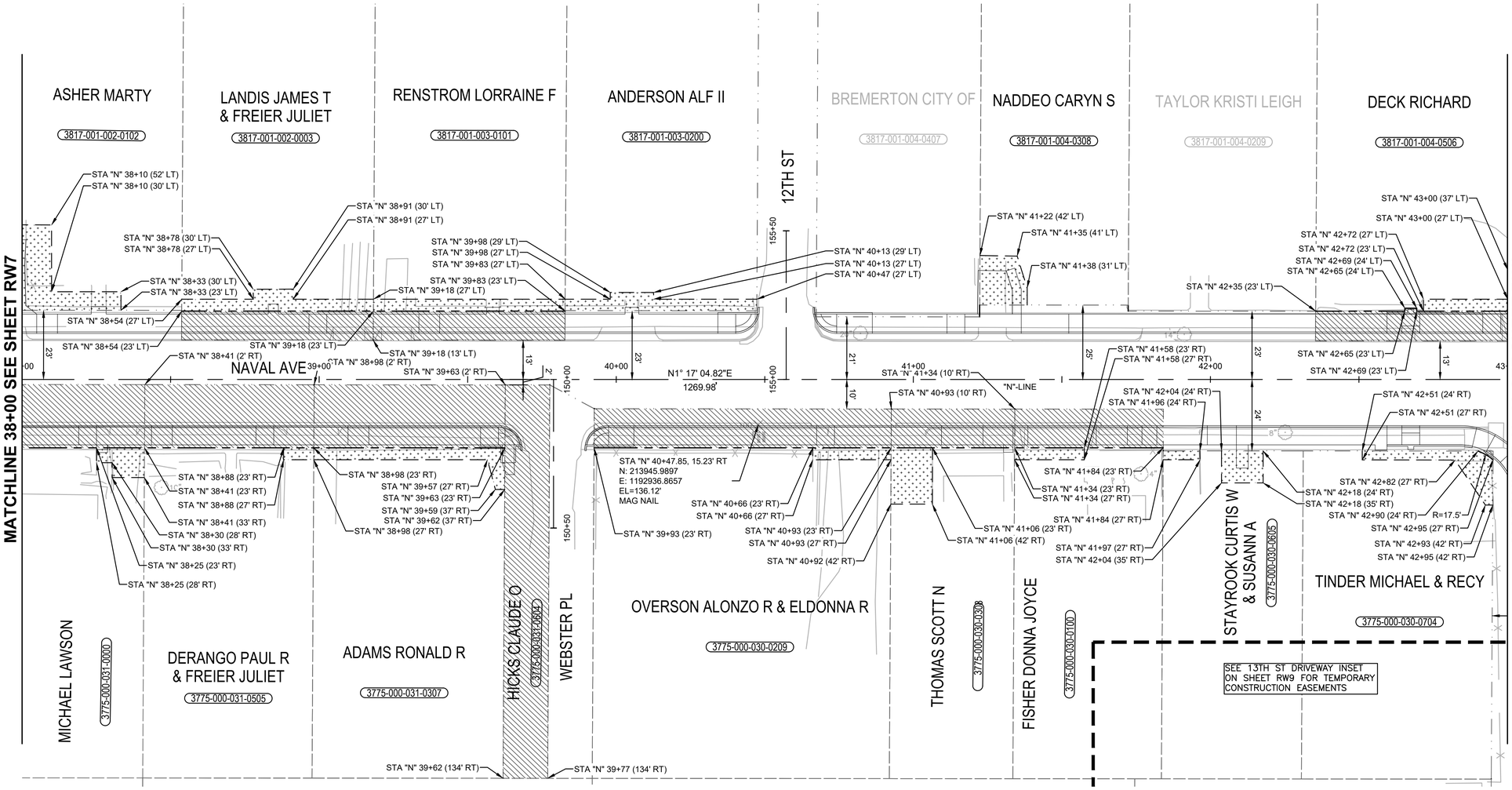
RW7
SHEET
24
OF
179



LEGEND

- PROPERTY LINE
- EXISTING R/W LINE
- PROPOSED R/W LINE
- PROPOSED EASEMENT
- RIGHT-OF-WAY ACQUISITION
- TEMPORARY CONSTRUCTION EASEMENT

GENERAL NOTES

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83/91, US SURVEY FOOT (GRID)
   N 01° 26' 55" E [SET MAG (1 ALLIANCE #1,001) TO SET MAG (1 ALLIANCE #1,000)]]
4. PROJECT BENCHMARK: FOUND WSDOT MON COONTZ #6814 (1 ALLIANCE #10,000, ELEV = 111.10).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN MARCH-APRIL 2020 AND JANUARY 2022. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN MARCH-APRIL 2020 AND JANUARY 2022.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99998633.
8. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.

OWNERSHIP - EASEMENT

PARCEL NO.	NAME	TOTAL AREA (S.F.)	R/W ACQUISITION (S.F.)	TCE (S.F.)	REMAINDER (S.F.)
3817-001-002-0102	ASHER MARTY	19761	0	738	19761
3817-001-002-0003	LANDIS JAMES T	9371	631	303	8740
3817-001-003-0101	RENSTROM LORRAINE F	20403	634	258	19769
3817-001-003-0200	ANDERSON ALF II	8453	0	283	8453
3775-000-031-0000	MICHAEL LAWSON	10122	3313	135	6809
3775-000-031-0505	DERANGO PAUL R	7543	1210	41	6333
3775-000-031-0307	ADAMS RONALD R	8511	1363	302	7148
3775-000-031-0604	HICKS CLAUDE O	1985	1985	0	0
3775-000-030-0209	OVERSON ALONZO R & ELDONNA R	12435	1310	106	11125
3817-001-004-0308	NADDEO CARYN S	7303	0	246	7303
3817-001-004-0506	DECK RICHARD	14223	907	430	13316
3775-000-030-0308	THOMAS SCOTT N	5171	543	264	4628
3775-000-030-0100	FISHER DONNA JOYCE	6218	651	94	5567
3775-000-030-0605	STAYROOK CURTIS W	5203	0	188	5203
3775-000-030-0704	TINDER MICHAEL & RECY	7053	6	242	7047

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

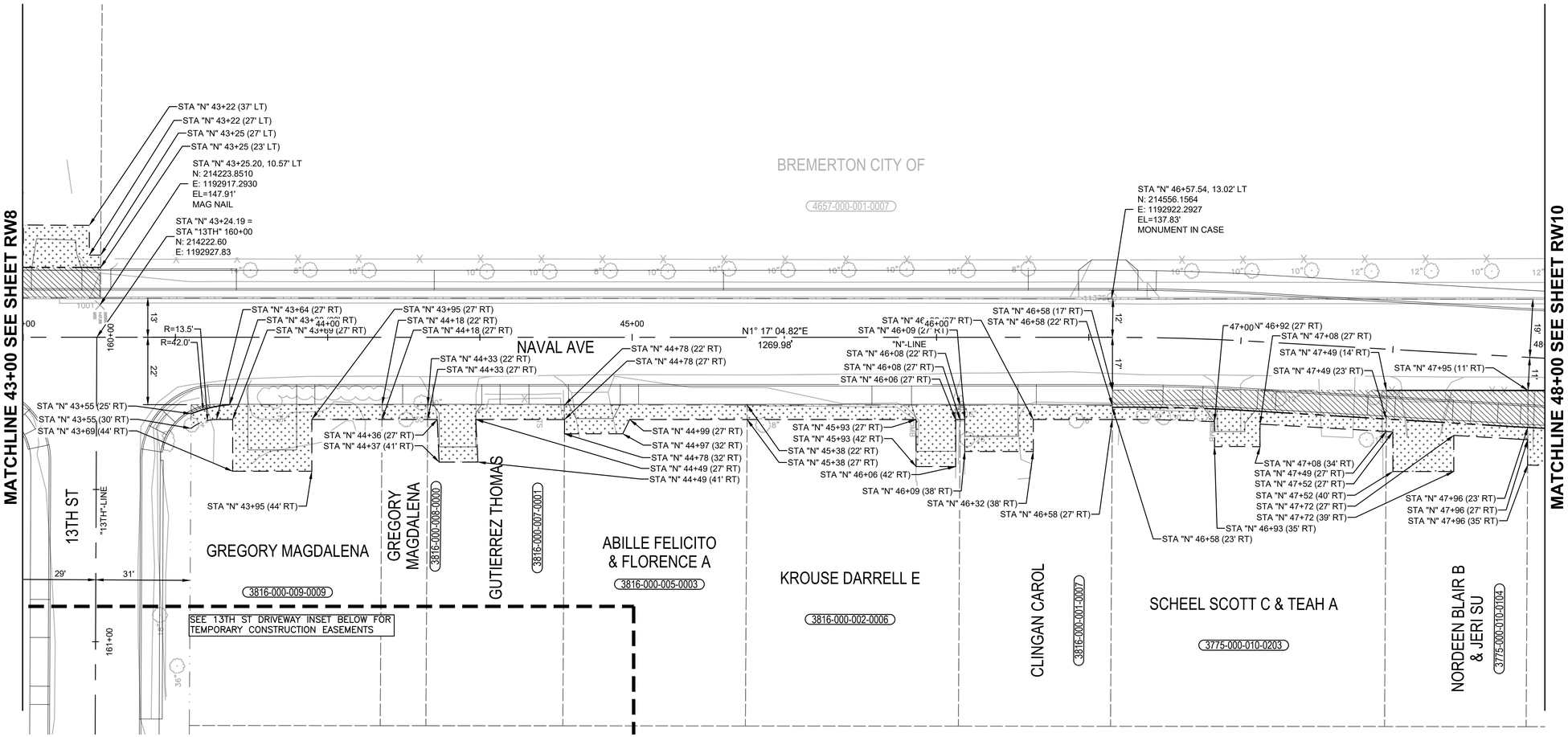
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

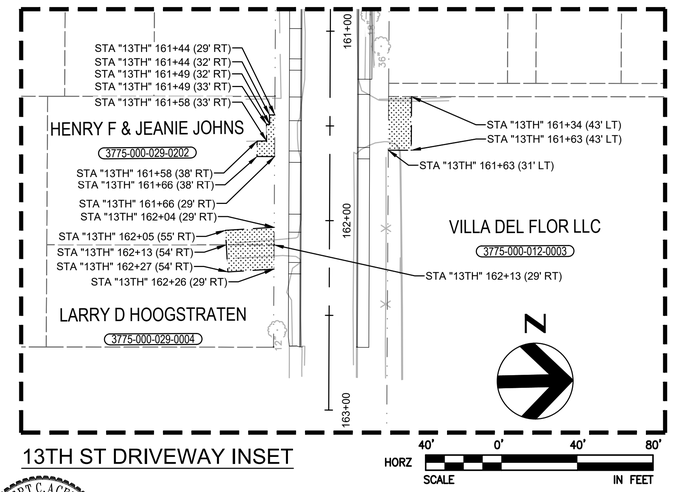
DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
RIGHT OF WAY PLANS

PN: PROJNUM

RW8
SHEET
25
OF
179





13TH ST DRIVEWAY INSET

LEGEND

- PROPERTY LINE
- EXISTING R/W LINE
- PROPOSED R/W LINE
- PROPOSED EASEMENT
- RIGHT-OF-WAY ACQUISITION
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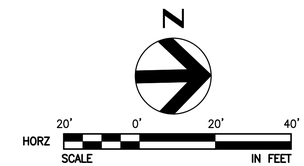
OWNERSHIP - EASEMENT

PARCEL NO.	NAME	TOTAL AREA (S.F.)	R/W ACQUISITION (S.F.)	TCE (S.F.)	REMAINDER (S.F.)
3816-000-009-0009	GREGORY MAGDALENA	6608	15	739	6593
3816-000-008-0000	GREGORY MAGDALENA	1580	0	72	1580
TOTAL OF LARGER PARCEL DETERMINATION (LPD):	GREGORY MAGDALENA	8188	15	811	8173
3816-000-007-0001	GUTIERREZ THOMAS	4740	0	393	4740
3816-000-005-0003	ABILLE FELICITO	6320	0	380	6320
3816-000-002-0006	KROUSE DARRELL E	7374	0	530	7374
3816-000-001-0007	CLINGAN CAROL	5267	0	470	5267
3775-000-029-0202	HENRY F & JEANIE JOHNS	9404	0	344	9404
3775-000-029-0004	LARRY D HOOGSTRATEN	6480	0	335	6480
3775-000-012-0003	VILLA DEL FLOR LLC	80150	0	343	80150
3775-000-010-0203	SCHEEL SCOTT C & TEAH A	9937	629	492	9308
3775-000-010-0104	NORDEEN BLAIR B	5134	502	437	4632

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

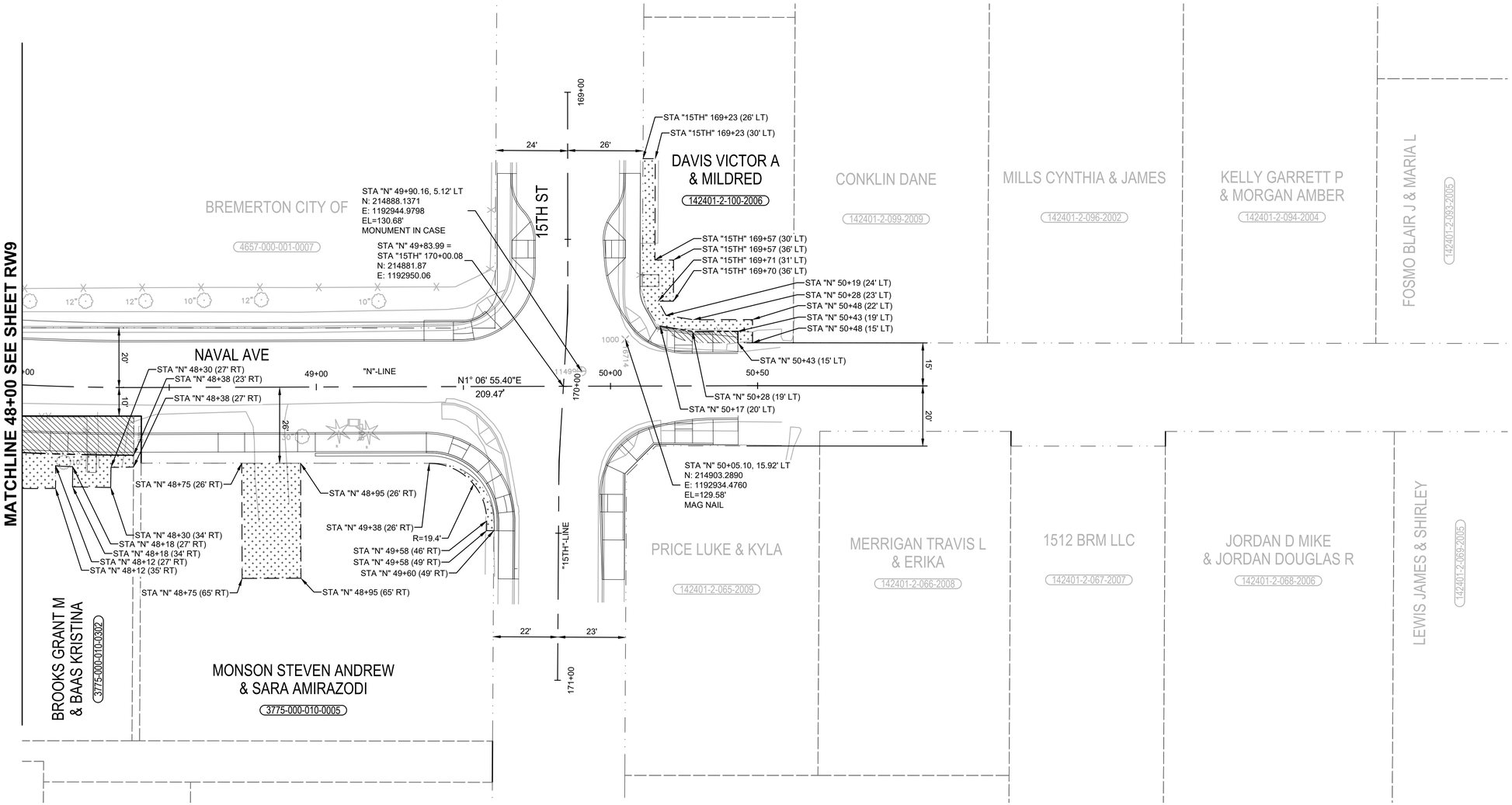
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
RIGHT OF WAY PLANS

PN: PROJNUM

RW9
SHEET
26
OF
179



LEGEND

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- EXISTING R/W LINE
- PROPOSED R/W LINE
- PROPOSED EASEMENT
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8. ALIGNMENTS SHOWN ARE CONSTRUCTION ALIGNMENTS.

OWNERSHIP - EASEMENT

PARCEL NO.	NAME	TOTAL AREA (S.F.)	R/W ACQUISITION (S.F.)	TCE (S.F.)	REMAINDER (S.F.)
3775-000-010-0302	BROOKS GRANT M	4803	554	410	4249
3775-000-010-0005	MONSON STEVEN ANDREW	11245	0	833	11245
142401-2-100-2006	DAVIS VICTOR A	5607	87	466	5520

NOTE: PARCEL INFORMATION SHOWN IS PER THE KITSAP COUNTY GIS-PARCEL INFORMATION/ASSESSOR'S RECORDS

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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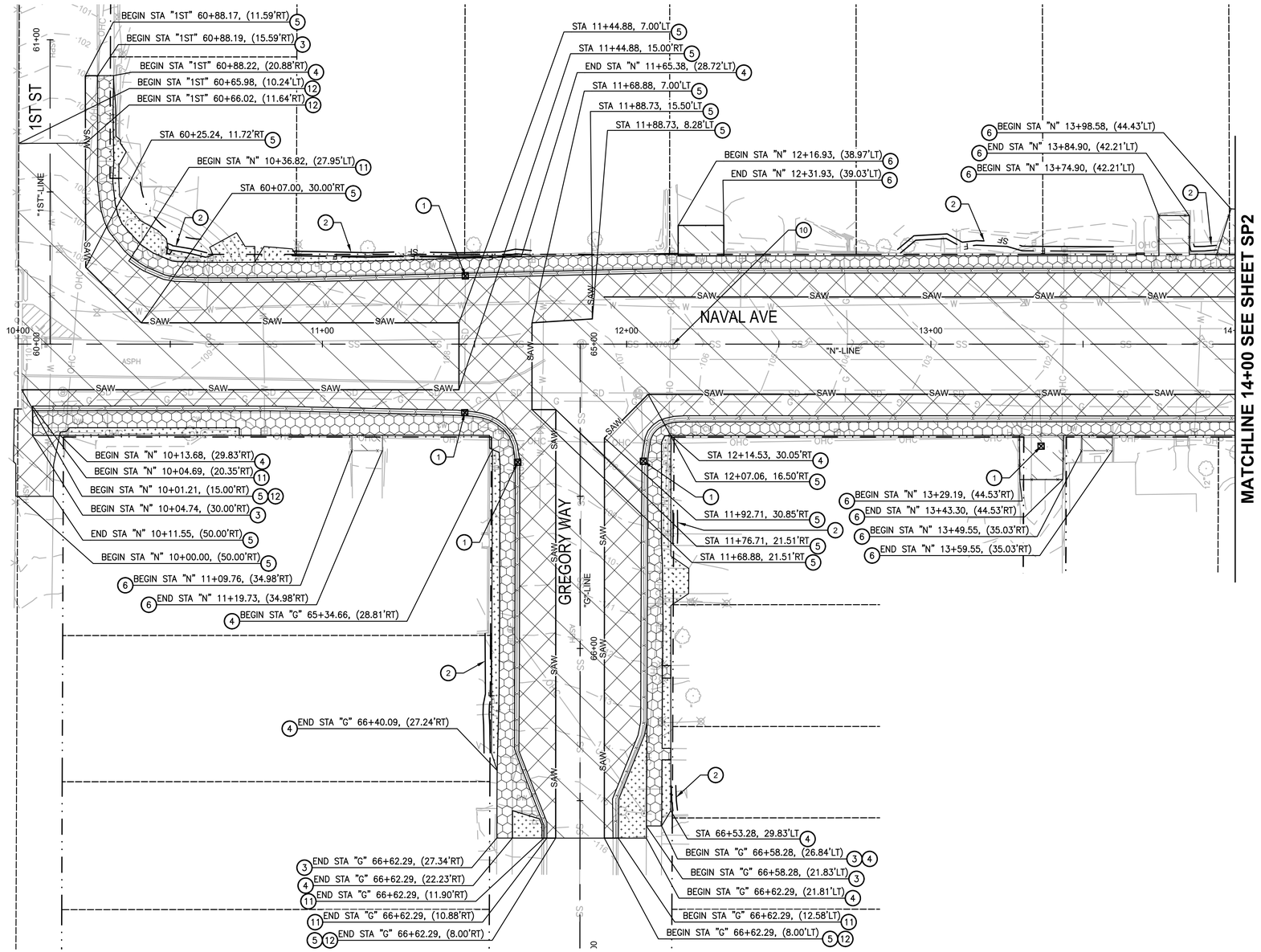
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
RIGHT OF WAY PLANS

PN: PROJNUM

RW10
SHEET
27
OF
179



CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
4. DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AGREED TO BY THE CITY OF BREMERTON.
5. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF ILLUMINATION AND TRAFFIC SIGNAL EQUIPMENT, SEE THE IL AND TS SHEETS.
6. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF STORM DRAINAGE, SEE THE SD SHEETS.
7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
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SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

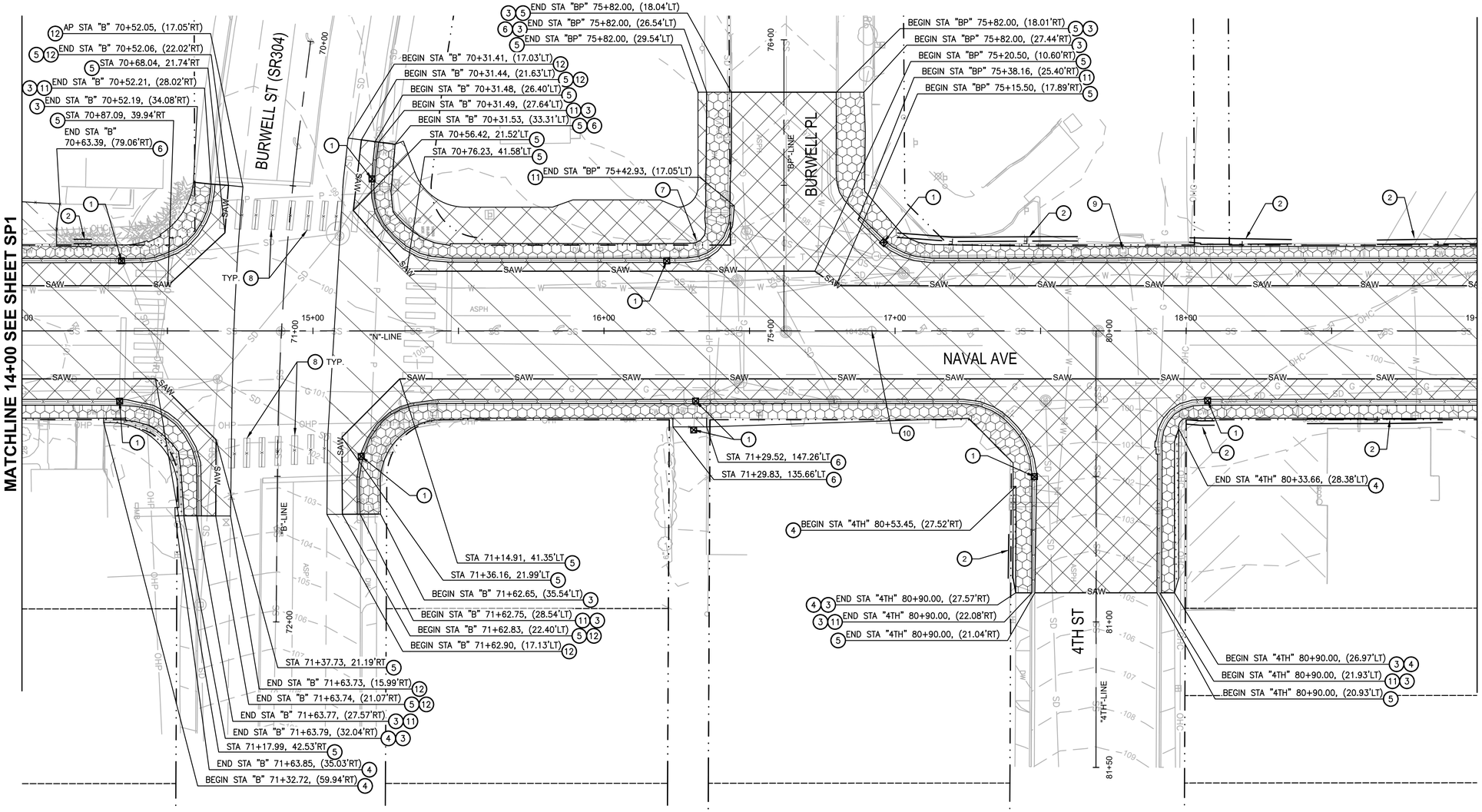
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS BEGIN TO STA 14+00

PN: PROJNUM

SHEET SP1
OF 28
179



CONSTRUCTION NOTES

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2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
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GENERAL NOTES

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9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
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LEGEND

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N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

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FIELD BOOK

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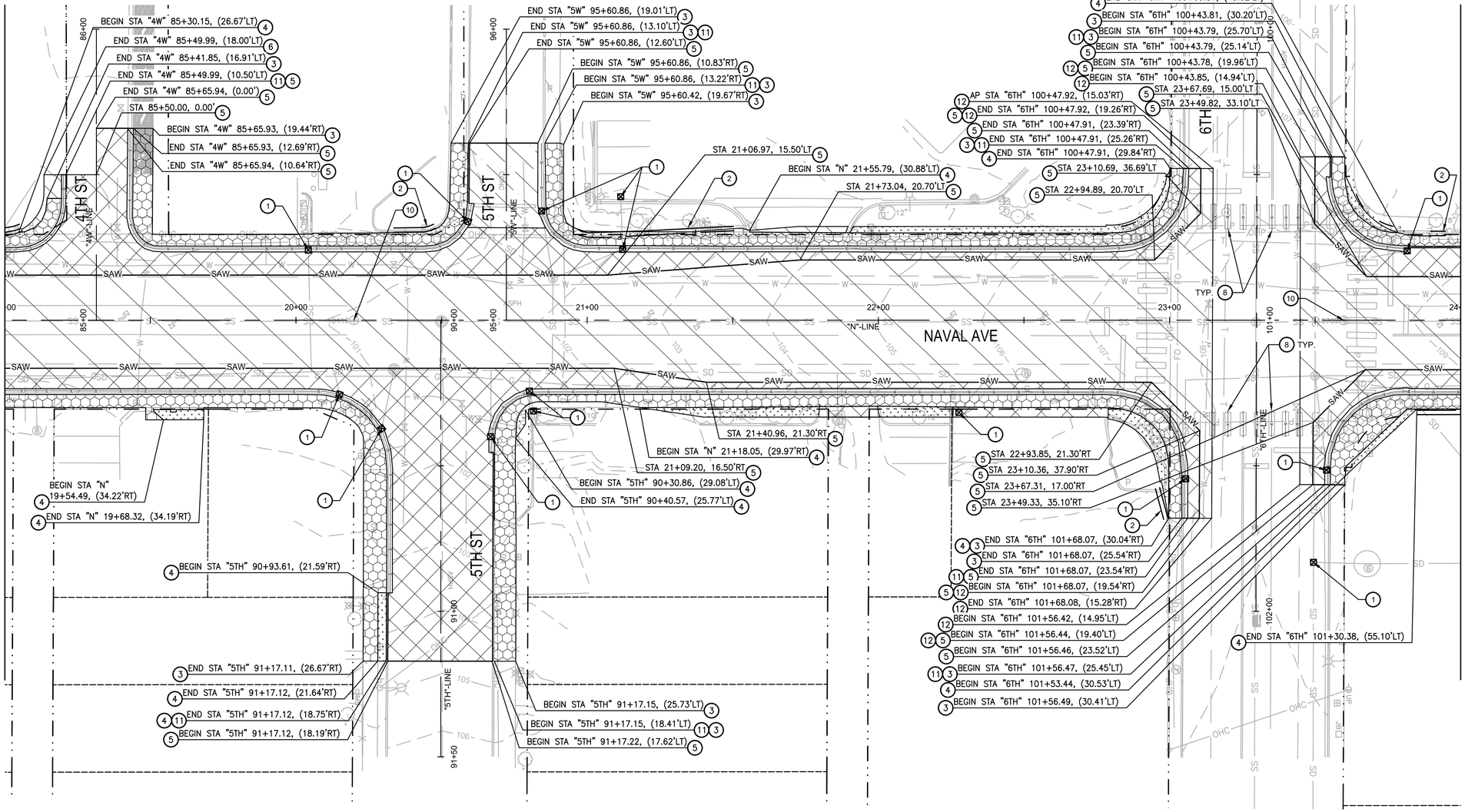
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 14+00 TO STA 19+00

PN: PROJNUM

SHEET SP2
29 OF 179

MATCHLINE 19+00 SEE SHEET SP2

MATCHLINE 24+00 SEE SHEET SP4



CONSTRUCTION NOTES

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- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
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- REMOVE FEATURE (AS NOTED)
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N

20' 0' 20' 40'
HORZ SCALE IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
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IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
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ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
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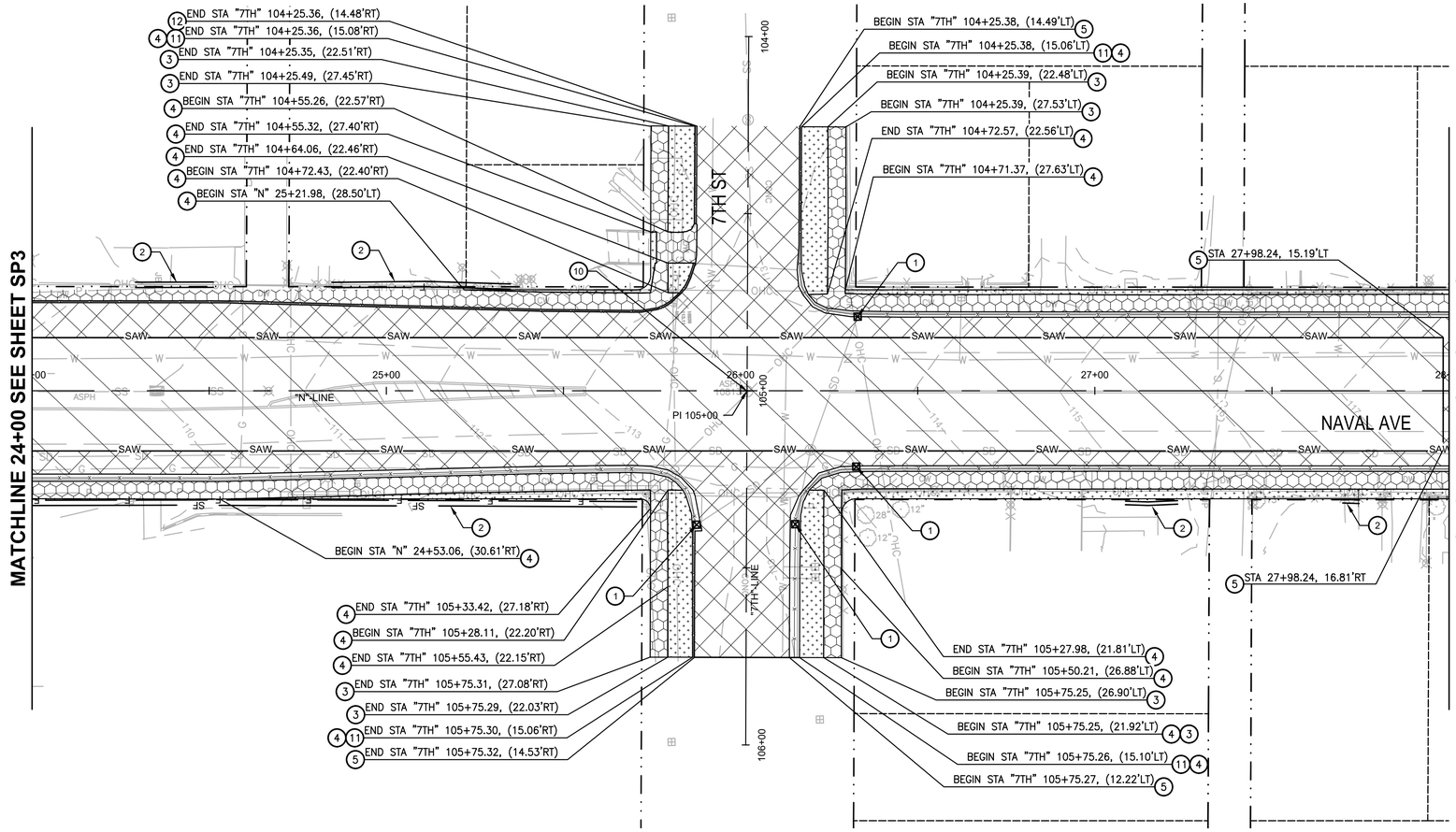
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 19+00 TO STA 24+00

PN: PROJNUM

SHEET SP3

OF 30 179



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6. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF STORM DRAINAGE, SEE THE SD SHEETS.
7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

20' 0' 20' 40'
HORZ
SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

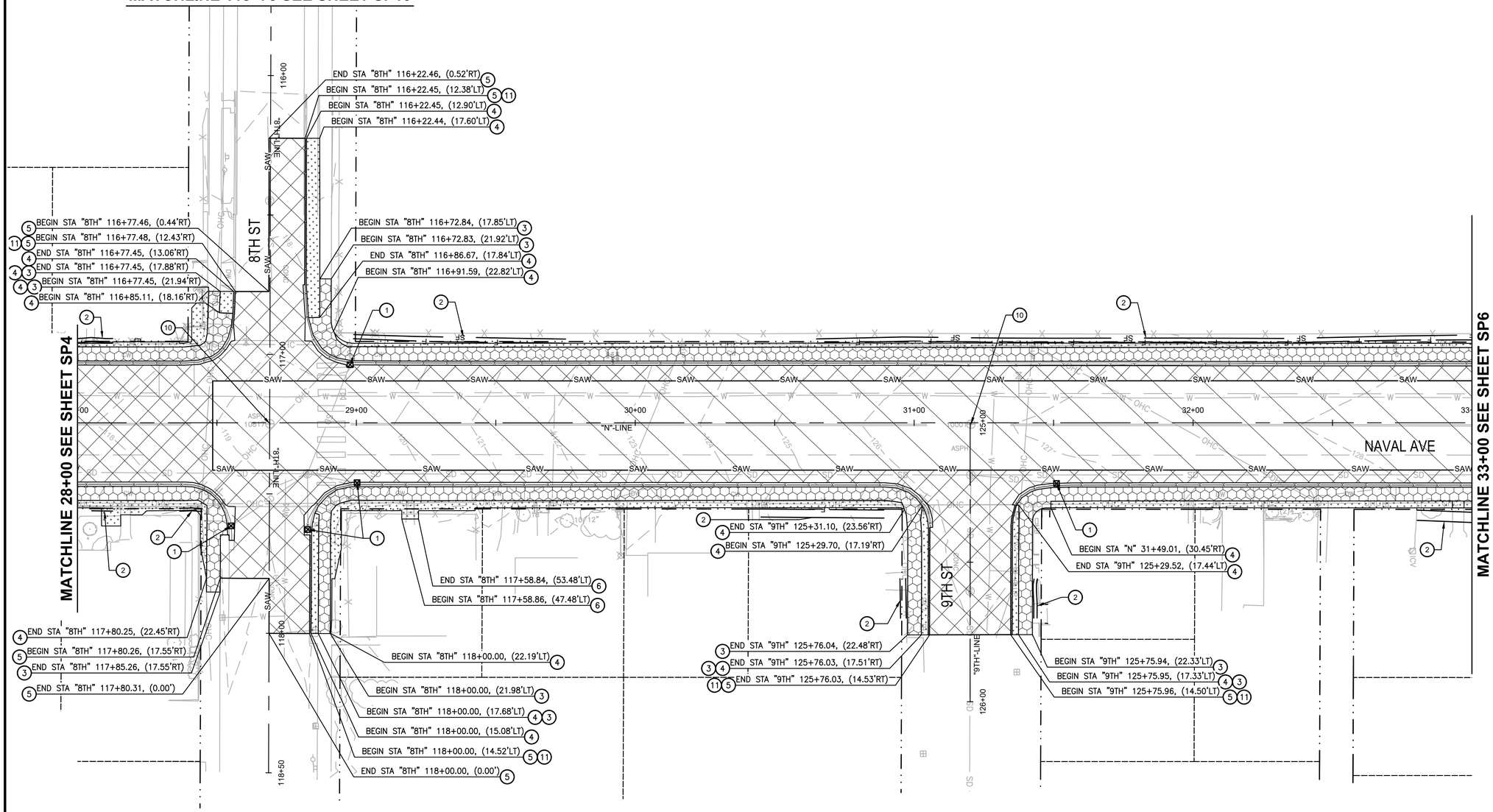
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 24+00 TO STA 28+00

PN: PROJNUM

SHEET SP4
31 OF 179



CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
4. DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AGREED TO BY THE CITY OF BREMERTON.
5. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF ILLUMINATION AND TRAFFIC SIGNAL EQUIPMENT, SEE THE IL AND TS SHEETS.
6. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF STORM DRAINAGE, SEE THE SD SHEETS.
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8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

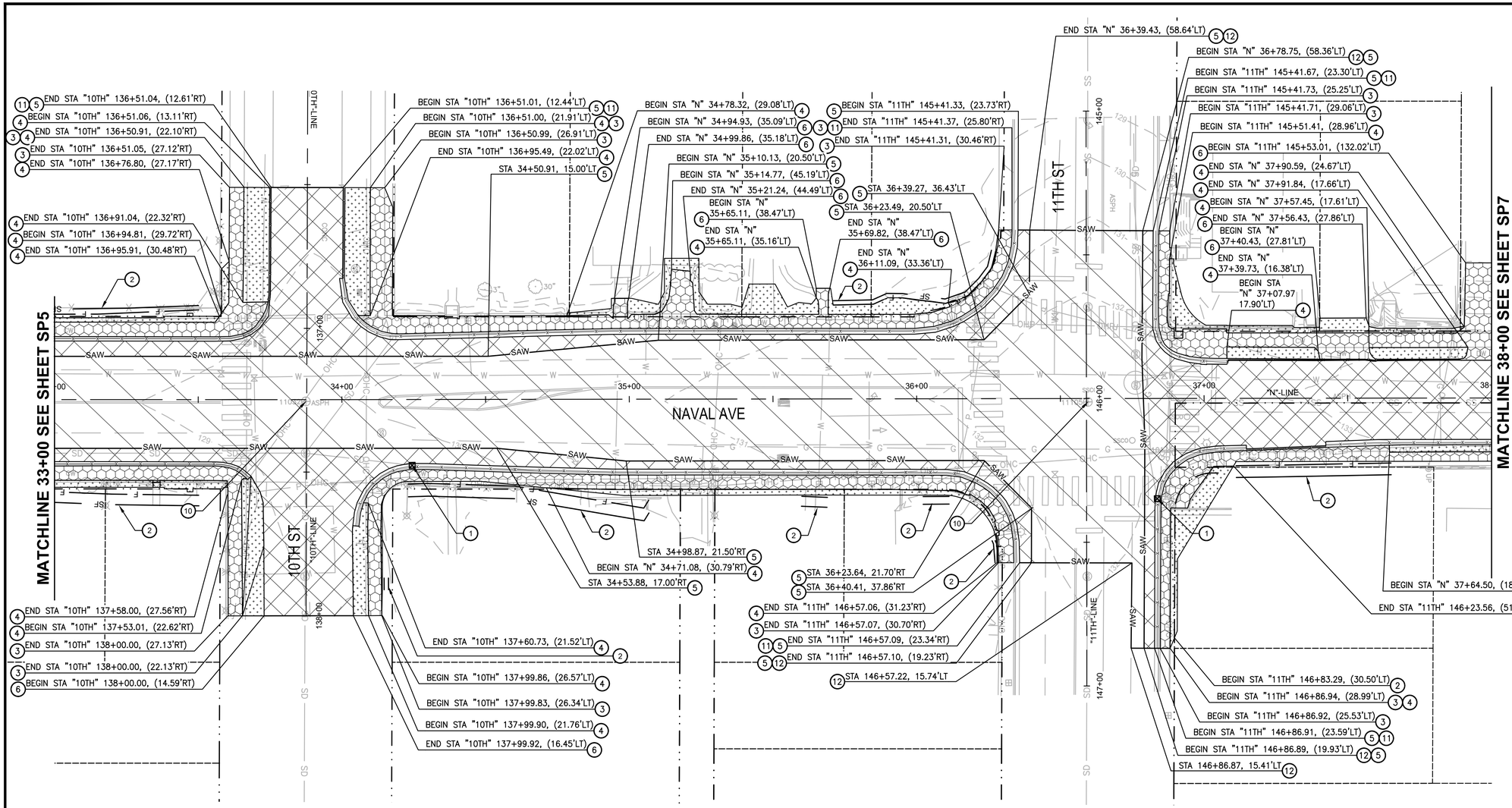
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 28+00 TO STA 33+00

PN: PROJNUM

SHEET SP5
32 OF 179



CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
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7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- ⊠ INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

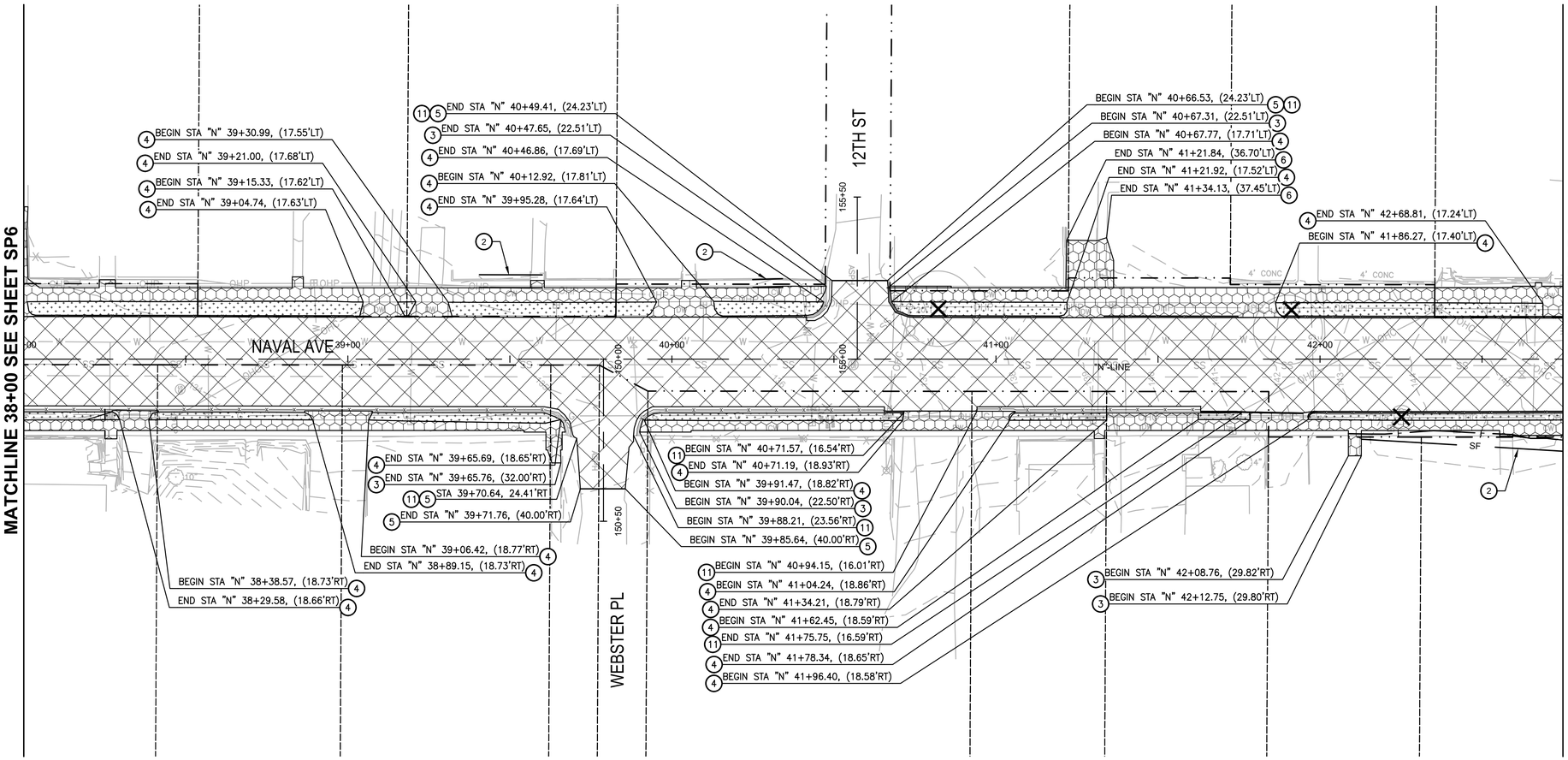
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 33+00 TO STA 38+00

P.N. PROJNUM

SHEET SP6



CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
4. DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AGREED TO BY THE CITY OF BREMERTON.
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6. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF STORM DRAINAGE, SEE THE SD SHEETS.
7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAWCUT
- FILL SLOPE
- SILT FENCE
- 100 EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

20' 0' 20' 40'
HORZ
SCALE IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

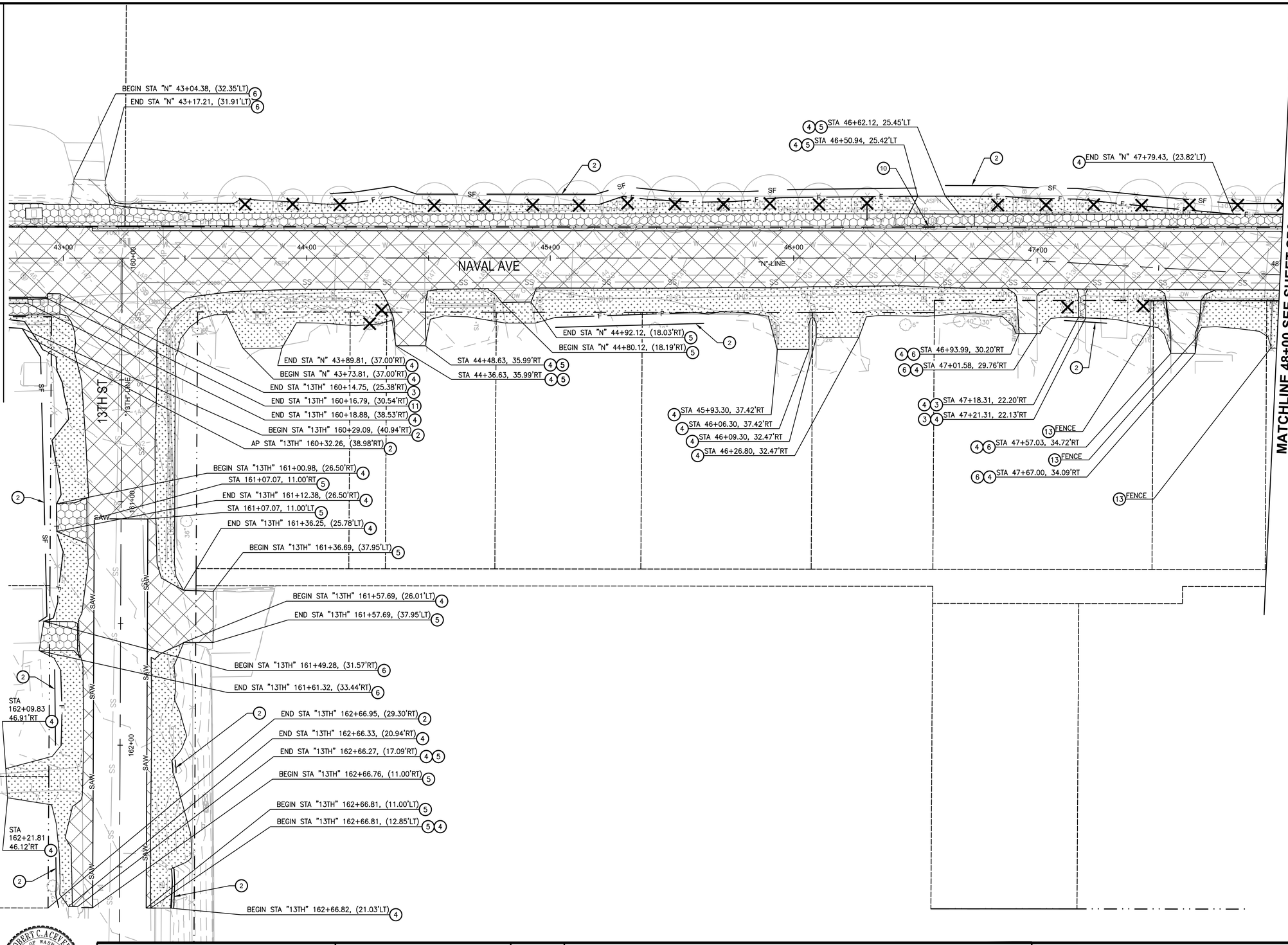
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 38+00 TO STA 43+00

PN. PROJNUM

SP7
SHEET
34
OF
179



CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
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6. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF STORM DRAINAGE, SEE THE SD SHEETS.
7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- ⊠ INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

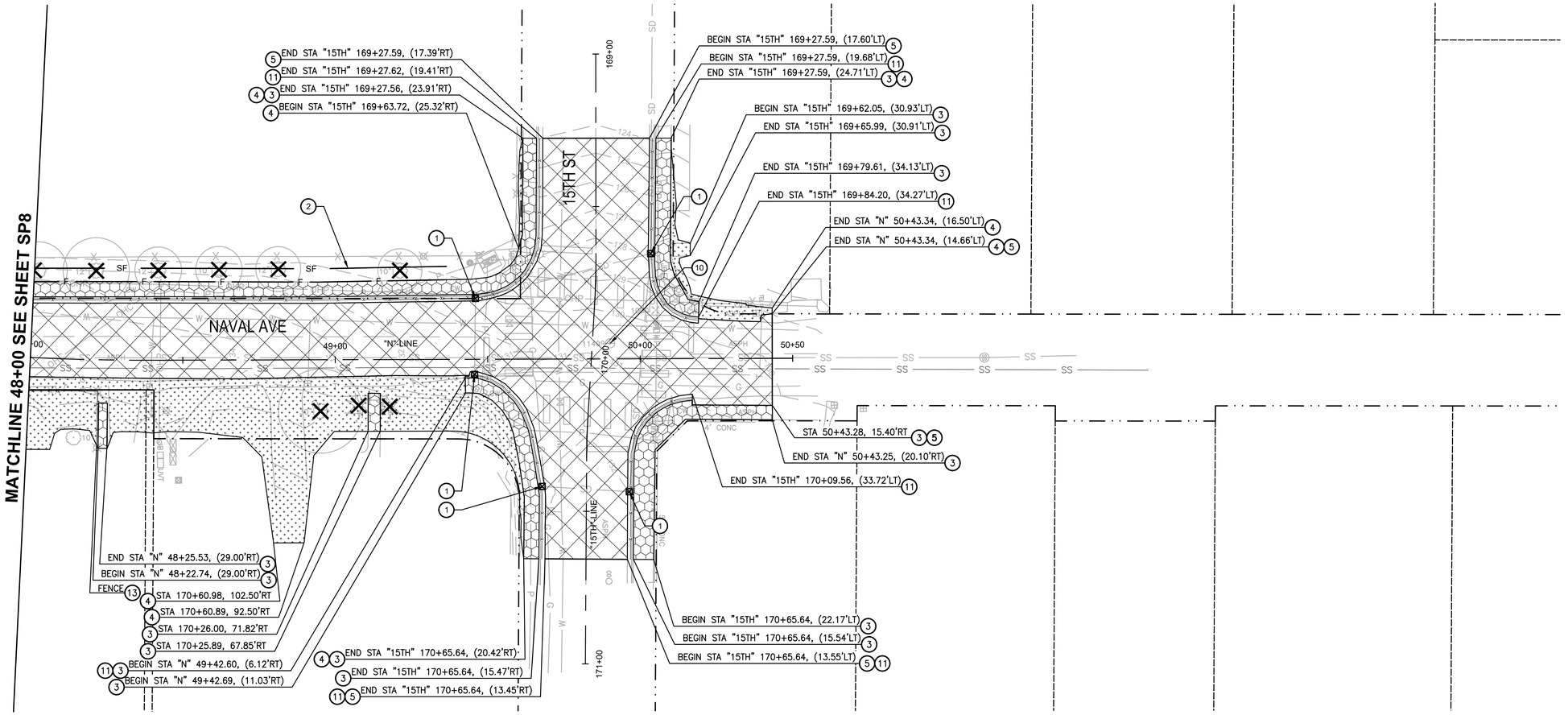
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 43+00 TO STA 48+00

PN: PROJNUM

SP8
SHEET
35
OF
179



CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
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7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
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11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAWCUT
- FILL SLOPE
- SILT FENCE
- 100 EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

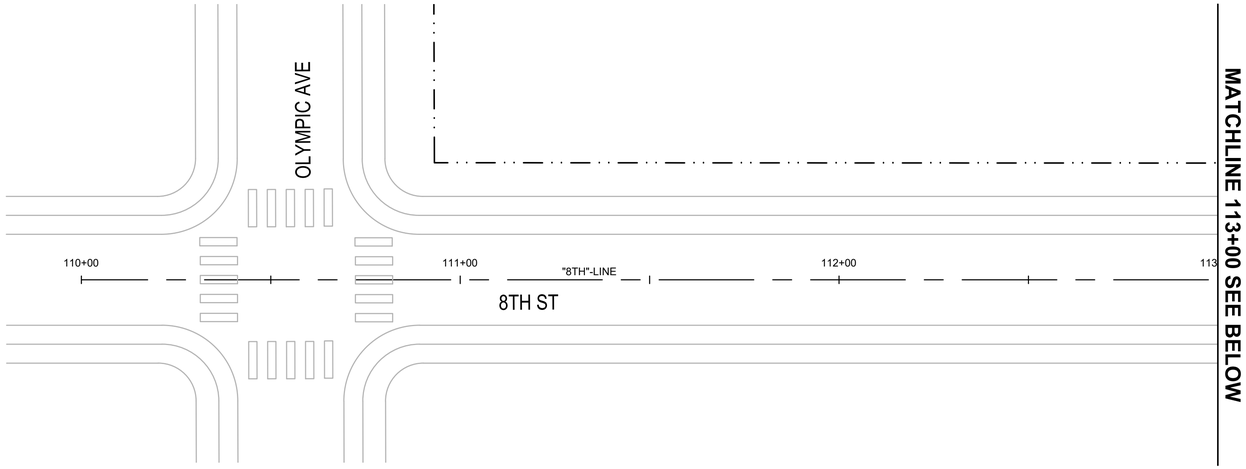
DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

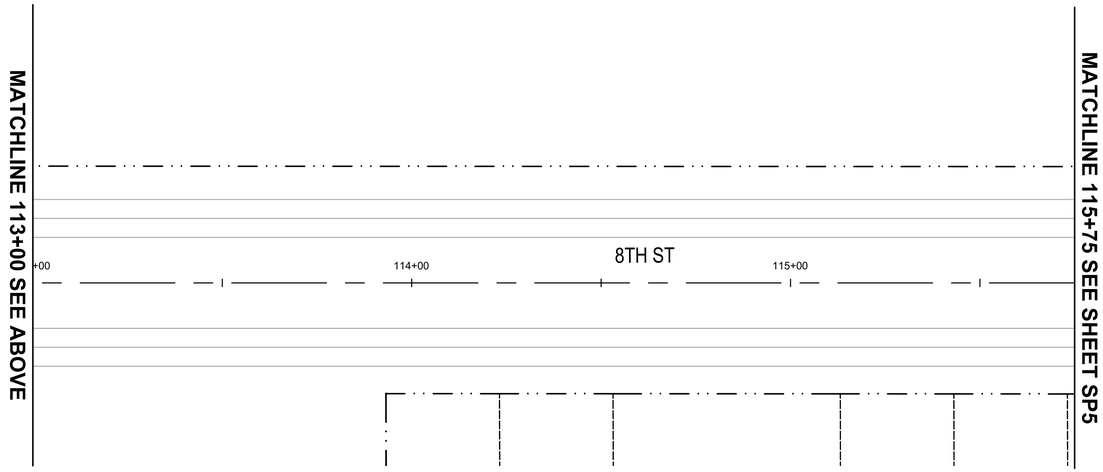
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SITE PREP. AND EROSION CONTROL PLANS STA 48+00 TO END

PN: PROJNUM

SHEET 36 OF 179

SP9





CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

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2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
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11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO. _____

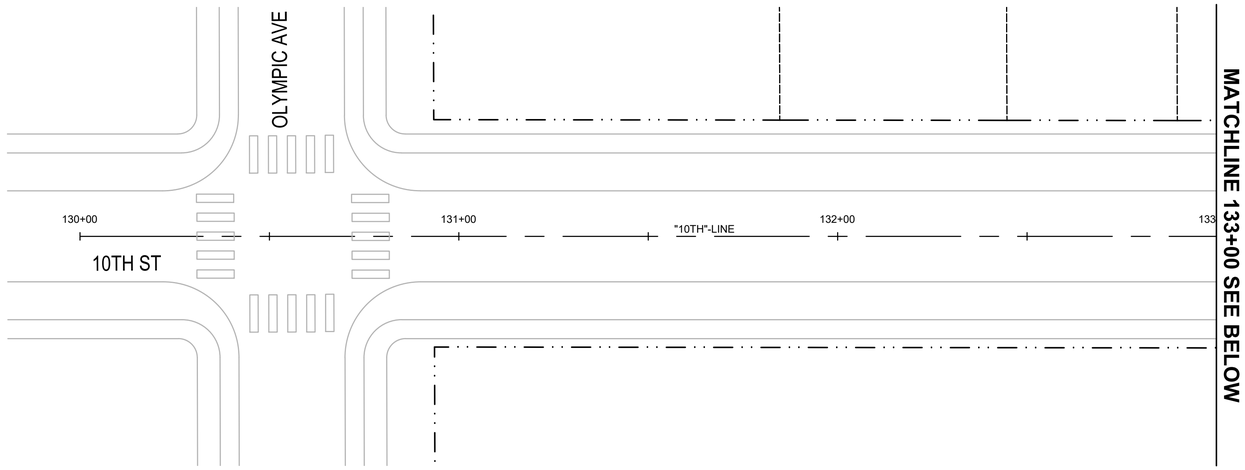
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

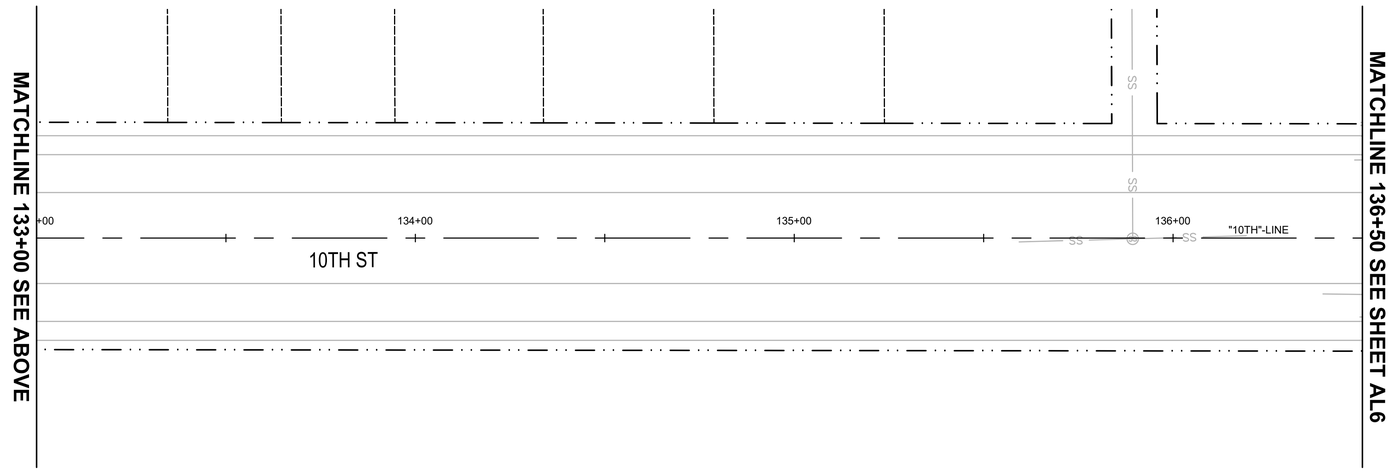
DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
SITE PREP. AND EROSION CONTROL PLANS
8TH ST

PN: PROJNUM

SP10
SHEET
37
OF
179





CONSTRUCTION NOTES

1. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I.40.20–00.
2. INSTALL SILT FENCE PER WSDOT STD. PLAN I–30.15–02
3. CEMENT CONCRETE SIDEWALK REMOVAL
4. CLEARING AND GRUBBING
5. REMOVING ASPHALT CONC. PAVEMENT
6. CONCRETE PAVEMENT REMOVAL
7. RELOCATE EXISTING POLE AND ATTACHED UTILITIES
8. REMOVE PAINT LINE
9. PROTECT EXISTING UTILITY
10. PROTECT AND PRESERVE EXISTING MONUMENT
11. REMOVING CEMENT CONC. CURB AND GUTTER
12. GRIND EXISTING PAVEMENT SURFACE
13. REMOVE FEATURE (AS NOTED)

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1–800–424–5555 48 HOURS PRIOR TO CONSTRUCTION
3. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FILED LOCATES, POTHOLING, AND AS–BUILT DRAWINGS.
4. DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AGREED TO BY THE CITY OF BREMERTON.
5. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF ILLUMINATION AND TRAFFIC SIGNAL EQUIPMENT, SEE THE IL AND TS SHEETS.
6. FOR REMOVALS, RELOCATIONS, AND ADJUSTMENTS OF STORM DRAINAGE, SEE THE SD SHEETS.
7. SAVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS.
8. SILT FENCE SHOWN ARE APPROXIMATE, EXACT LOCATION SHALL BE FIELD LOCATED.
9. SILT FENCE TO BE INSTALLED AT THE TOE OF ALL FILL SLOPES WITHIN CITY RIGHT OF WAY.
10. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL PROPOSED OR EXISTING STORM DRAIN INLETS WITHIN THE LIMITS OF THE PROJECT AND AN ADDITIONAL 500 FEET DOWNSTREAM.
11. ONSITE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

- REMOVE CONCRETE SIDEWALK
- GRIND/OVERLAY
- REMOVE CONCRETE PAVEMENT
- CLEARING & GRUBBING
- REMOVE ASPHALT PAVEMENT
- INLET PROTECTION
- PROPERTY LINE
- R/W LINE
- SAW — SAWCUT
- F — FILL SLOPE
- SF — SILT FENCE
- 100 — EXISTING CONTOUR
- REMOVE FEATURE (AS NOTED)
- REMOVE TREE

N

20' 0' 20' 40'
HORZ
SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

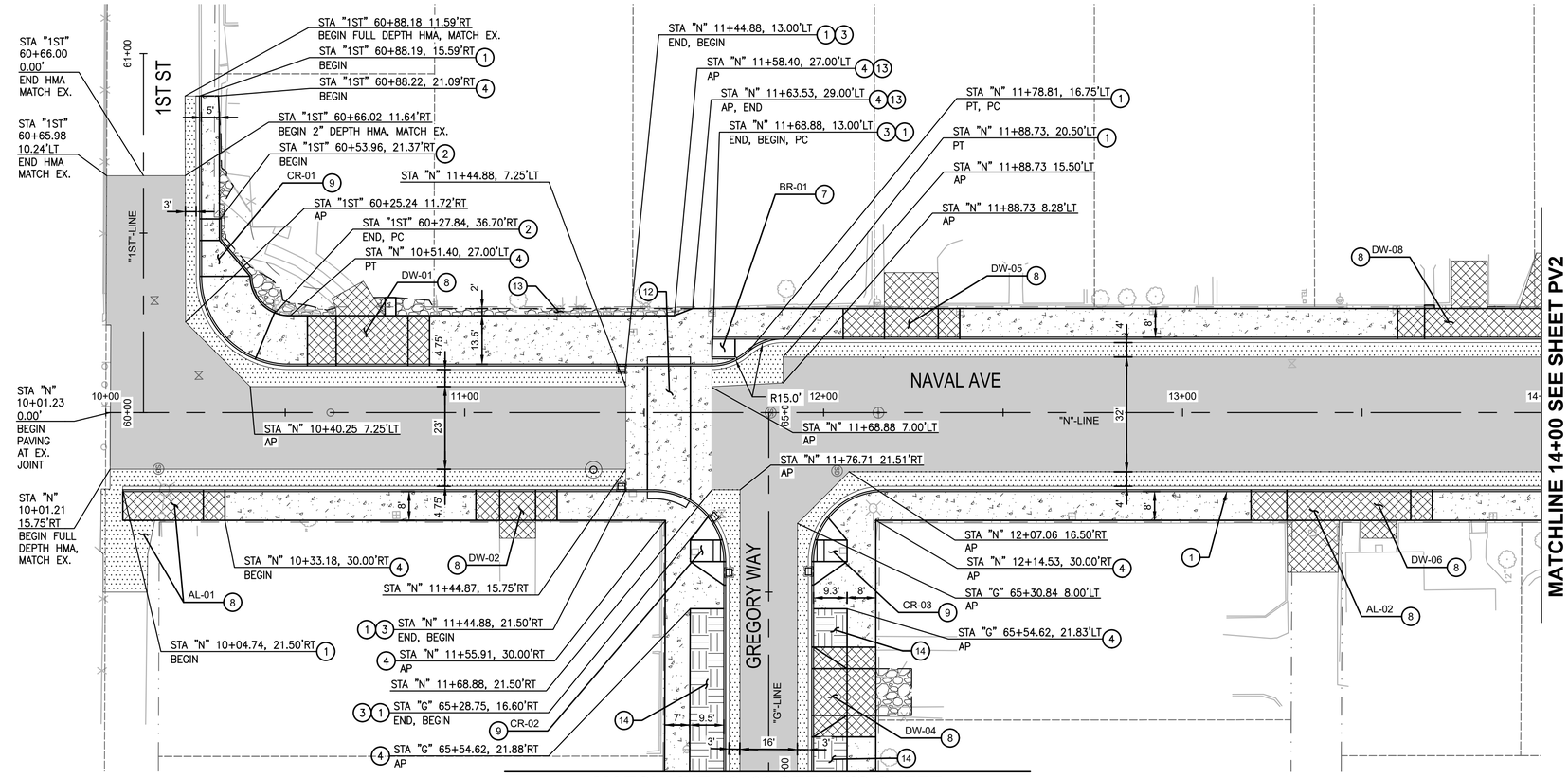
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

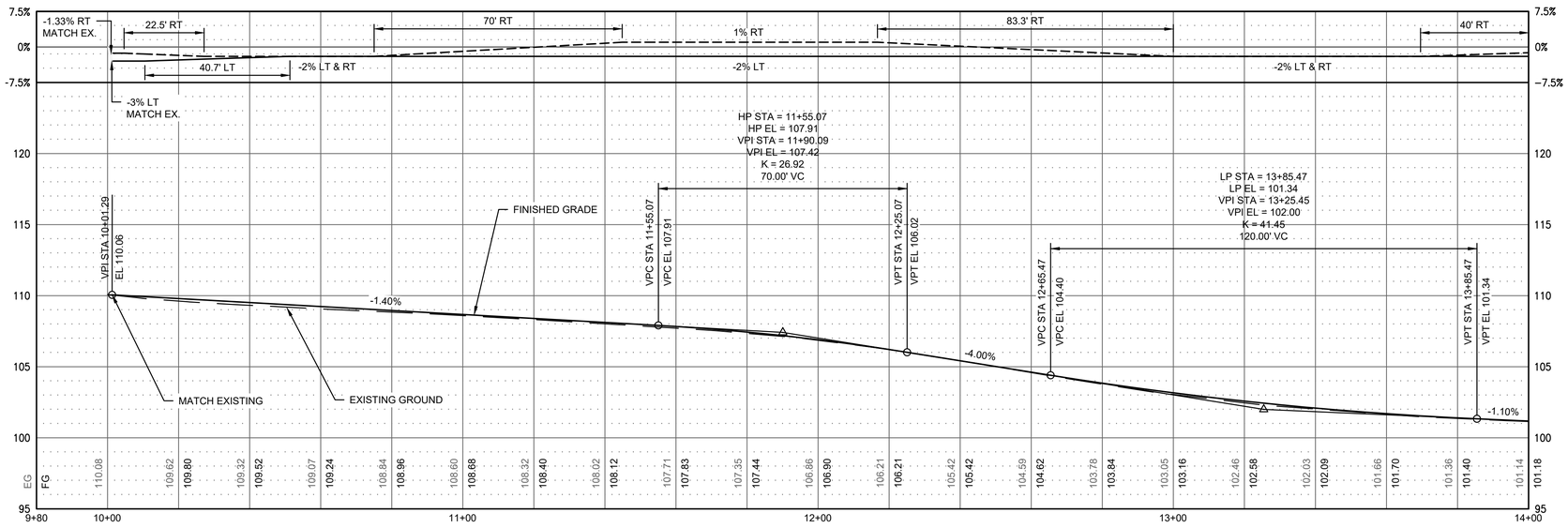
DRAWN BY: *L. MCCRACKEN* DATE ---
DESIGN BY: *L. MCCRACKEN* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
SITE PREP. AND EROSION CONTROL PLANS
10TH ST

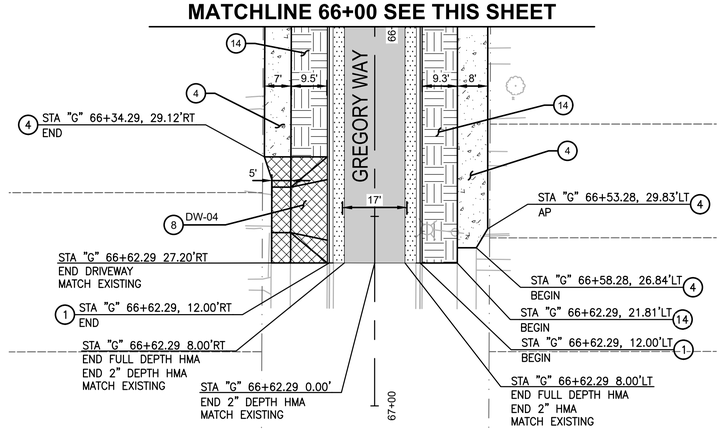
PN: PROJNUM

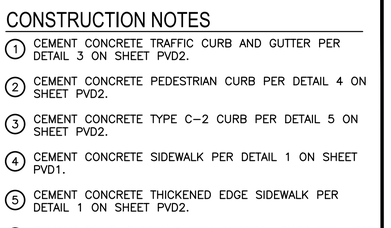
SP11
SHEET
38
OF
179





NAVAL AVE PROFILE & SUPERELEVATION





CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
2. CEMENT CONCRETE PEDESTRIAN CURB PER DETAIL 4 ON SHEET PVD2.
3. CEMENT CONCRETE TYPE C–2 CURB PER DETAIL 5 ON SHEET PVD2.
4. CEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET PVD1.
5. CEMENT CONCRETE THICKENED EDGE SIDEWALK PER DETAIL 1 ON SHEET PVD2.
6. CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL PER DETAIL 2 ON SHEET PVD2.
7. RETAINING WALL TO BE DESIGNED AS PART OF ROW PHASE.
8. CEMENT CONCRETE DRIVEWAY ENTRANCE. SEE DW SHEETS FOR DETAILS.
9. CEMENT CONCRETE CURB RAMP. SEE CR SHEETS FOR DETAILS.
10. CEMENT CONC. BIKE RAMP PER DETAIL ON SHEET CR1.
11. RAISED PEDESTRIAN REFUGE PER DETAIL ON SHEET PVD4.
12. RAISED CROSSWALK PER DETAIL ON SHEET PVD3.
13. GRAVEL SHOULDER. DEPTH AND MATERIAL TO BE CONFIRMED AS PART OF 100% DESIGN PHASE.
14. LANDSCAPING AREA.
15. STAIRS TO BE DESIGNED AS PART OF ROW PHASE.

SURFACING LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- PROPERTY LINE
- R/W LINE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE CHANNELIZATION PLANS FOR CROSSWALK LOCATIONS.
3. SEE UTILITY PLANS FOR UTILITY INFORMATION .
4. SEE CURB RAMP PLANS FOR CURB RAMP INFORMATION.
5. SEE DRIVEWAY PLANS FOR DRIVEWAY INFORMATION.
6. SEE ROADWAY TYPICAL SECTION SHEETS FOR PAVEMENT INFORMATION.
7. SEE INTERSECTION GRADING PLANS FOR ALL CURB RETURN HORIZONTAL AND VERTICAL GEOMETRY AND MINOR STREET PROFILE DATA.
8. SIDEWALK DIMENSIONS SHOWN ARE MEASURED FROM BACK OF CURB UNLESS NOTED OTHERWISE.

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

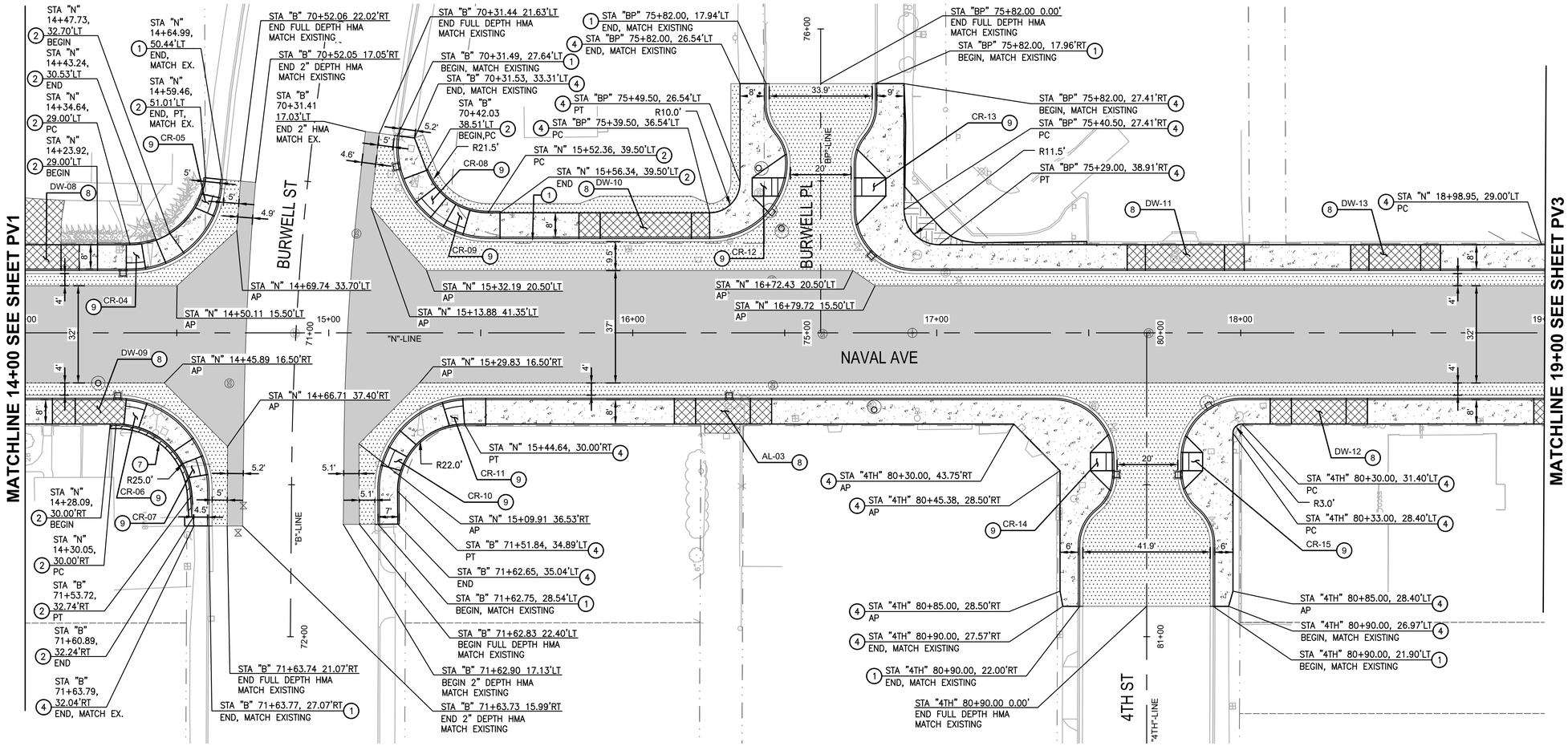
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

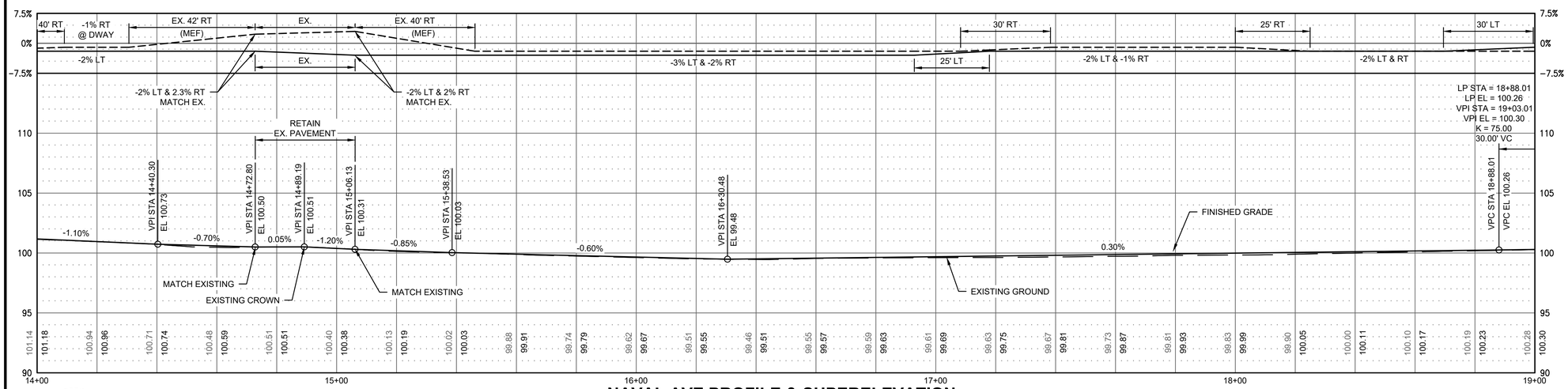
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING PLAN BEGIN TO STA 14+00

P.N. PROJNUM

PV1
SHEET
39
OF
179





NAVAL AVE PROFILE & SUPERELEVATION

CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
2. CEMENT CONCRETE PEDESTRIAN CURB PER DETAIL 4 ON SHEET PVD2.
3. CEMENT CONCRETE TYPE C–2 CURB PER DETAIL 5 ON SHEET PVD2.
4. CEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET PVD1.
5. CEMENT CONCRETE THICKENED EDGE SIDEWALK PER DETAIL 1 ON SHEET PVD2.
6. CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL PER DETAIL 2 ON SHEET PVD2.
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13. GRAVEL SHOULDER. DEPTH AND MATERIAL TO BE CONFIRMED AS PART OF 100% DESIGN PHASE.
14. LANDSCAPING AREA.
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GENERAL NOTES

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8. SIDEWALK DIMENSIONS SHOWN ARE MEASURED FROM BACK OF CURB UNLESS NOTED OTHERWISE.

SURFACING LEGEND

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- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- PROPERTY LINE
- R/W LINE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

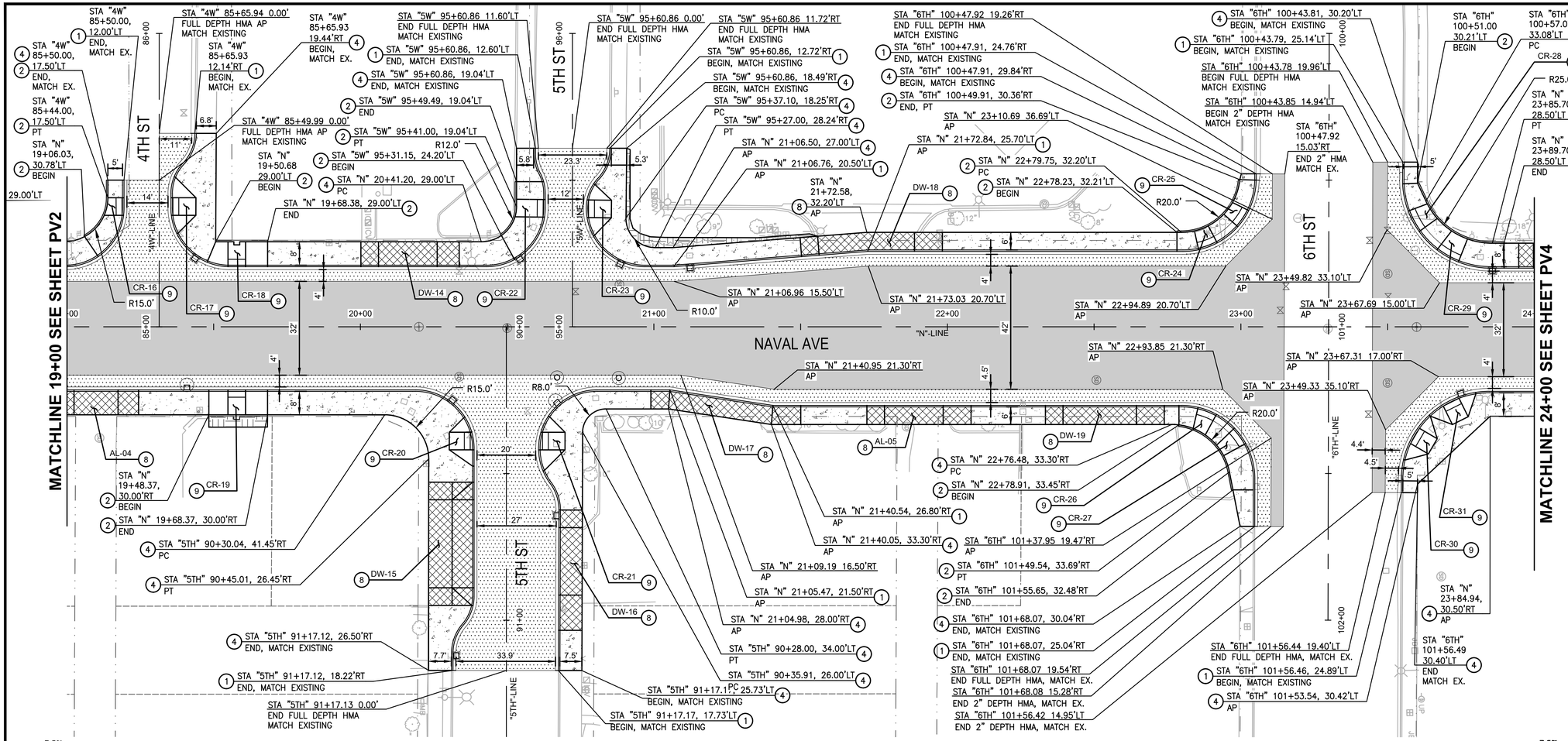
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING PLAN STA 14+00 TO STA 19+00

PN: PROJNUM

PV2
SHEET
40
OF
179



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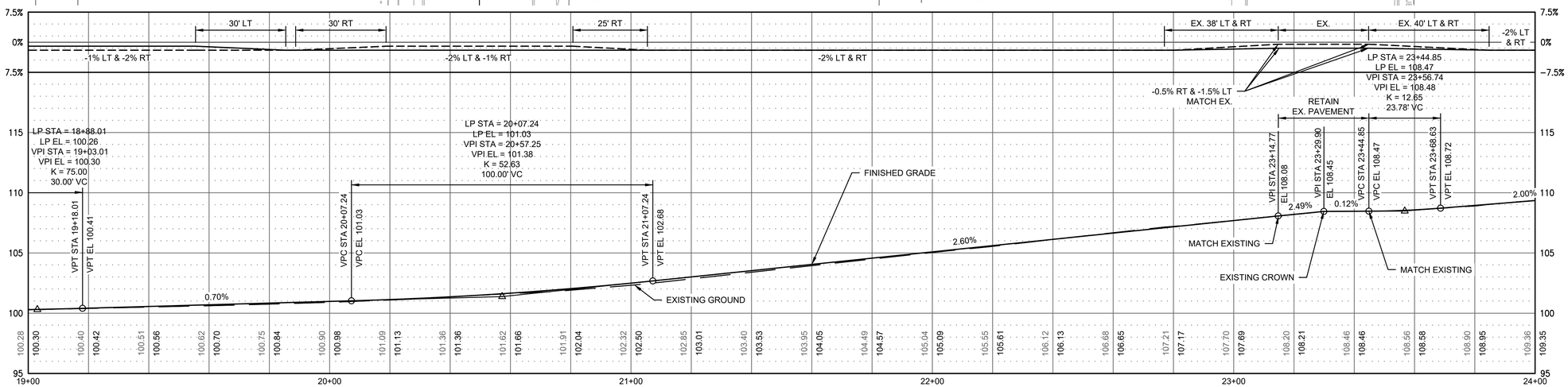
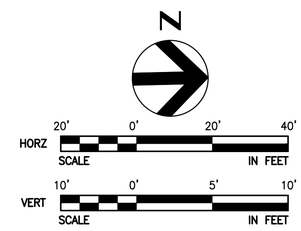
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- PROPERTY LINE
- R/W LINE



NAVAL AVE PROFILE & SUPERELEVATION



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE — HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO. _____

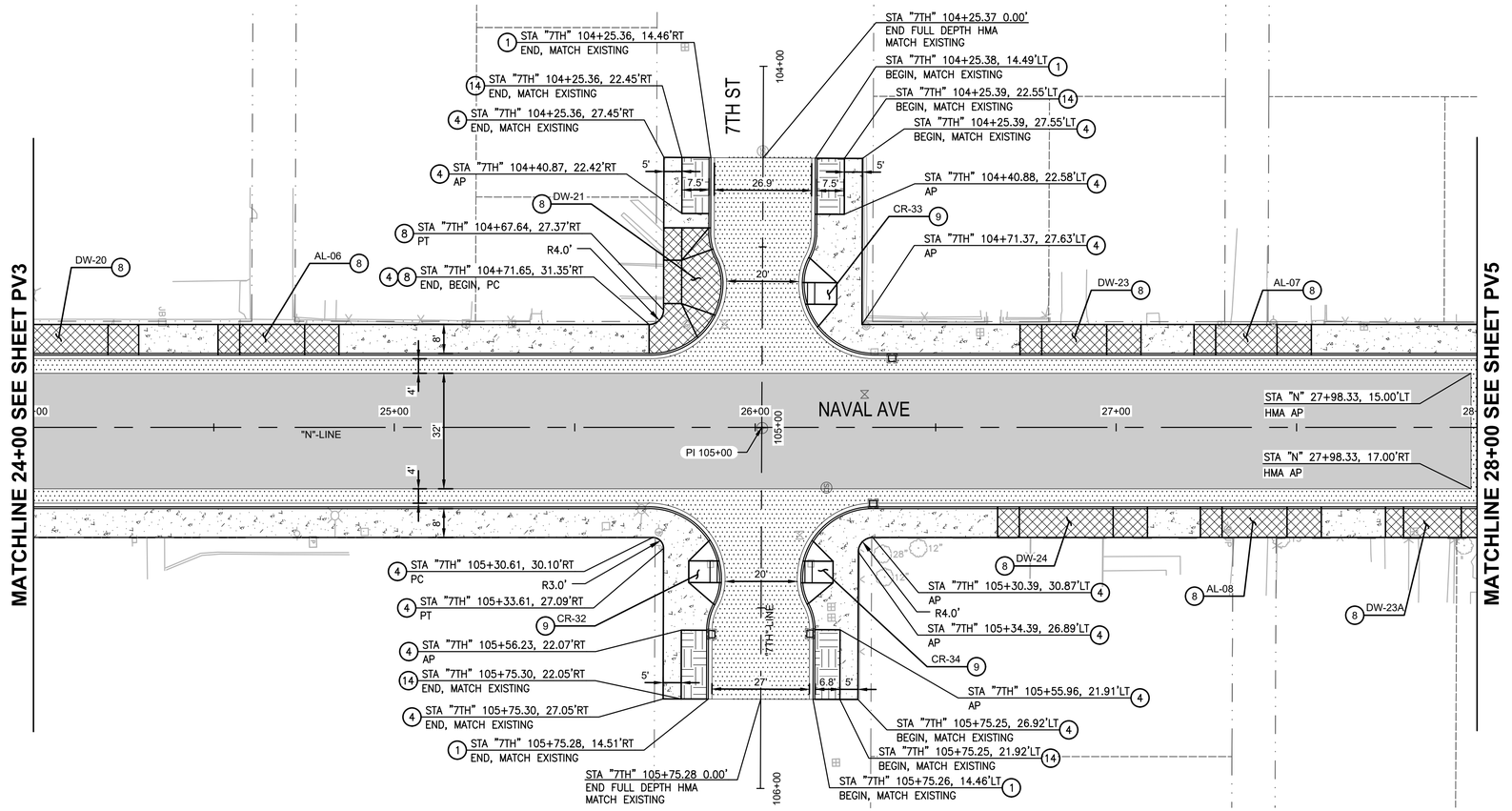
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

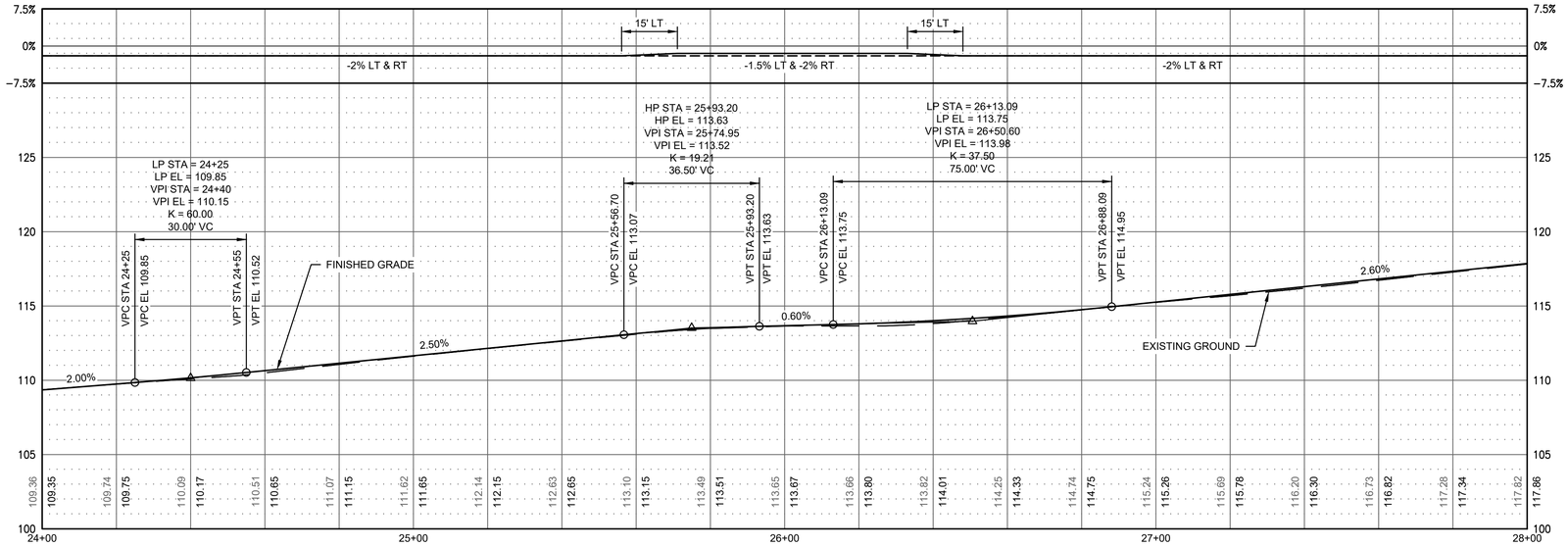
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING PLAN STA 19+00 TO STA 24+00

PN: PROJNUM

PV3 SHEET 41 OF 179





NAVAL AVE PROFILE & SUPERELEVATION

CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
2. CEMENT CONCRETE PEDESTRIAN CURB PER DETAIL 4 ON SHEET PVD2.
3. CEMENT CONCRETE TYPE C–2 CURB PER DETAIL 5 ON SHEET PVD2.
4. CEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET PVD1.
5. CEMENT CONCRETE THICKENED EDGE SIDEWALK PER DETAIL 1 ON SHEET PVD2.
6. CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL PER DETAIL 2 ON SHEET PVD2.
7. RETAINING WALL TO BE DESIGNED AS PART OF ROW PHASE.
8. CEMENT CONCRETE DRIVEWAY ENTRANCE. SEE DW SHEETS FOR DETAILS.
9. CEMENT CONCRETE CURB RAMP. SEE CR SHEETS FOR DETAILS.
10. CEMENT CONC. BIKE RAMP PER DETAIL ON SHEET CR1.
11. RAISED PEDESTRIAN REFUGE PER DETAIL ON SHEET PVD4.
12. RAISED CROSSWALK PER DETAIL ON SHEET PVD3.
13. GRAVEL SHOULDER. DEPTH AND MATERIAL TO BE CONFIRMED AS PART OF 100% DESIGN PHASE.
14. LANDSCAPING AREA.
15. STAIRS TO BE DESIGNED AS PART OF ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE CHANNELIZATION PLANS FOR CROSSWALK LOCATIONS.
3. SEE UTILITY PLANS FOR UTILITY INFORMATION .
4. SEE CURB RAMP PLANS FOR CURB RAMP INFORMATION.
5. SEE DRIVEWAY PLANS FOR DRIVEWAY INFORMATION.
6. SEE ROADWAY TYPICAL SECTION SHEETS FOR PAVEMENT INFORMATION.
7. SEE INTERSECTION GRADING PLANS FOR ALL CURB RETURN HORIZONTAL AND VERTICAL GEOMETRY AND MINOR STREET PROFILE DATA.
8. SIDEWALK DIMENSIONS SHOWN ARE MEASURED FROM BACK OF CURB UNLESS NOTED OTHERWISE.

SURFACING LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- PROPERTY LINE
- R/W LINE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

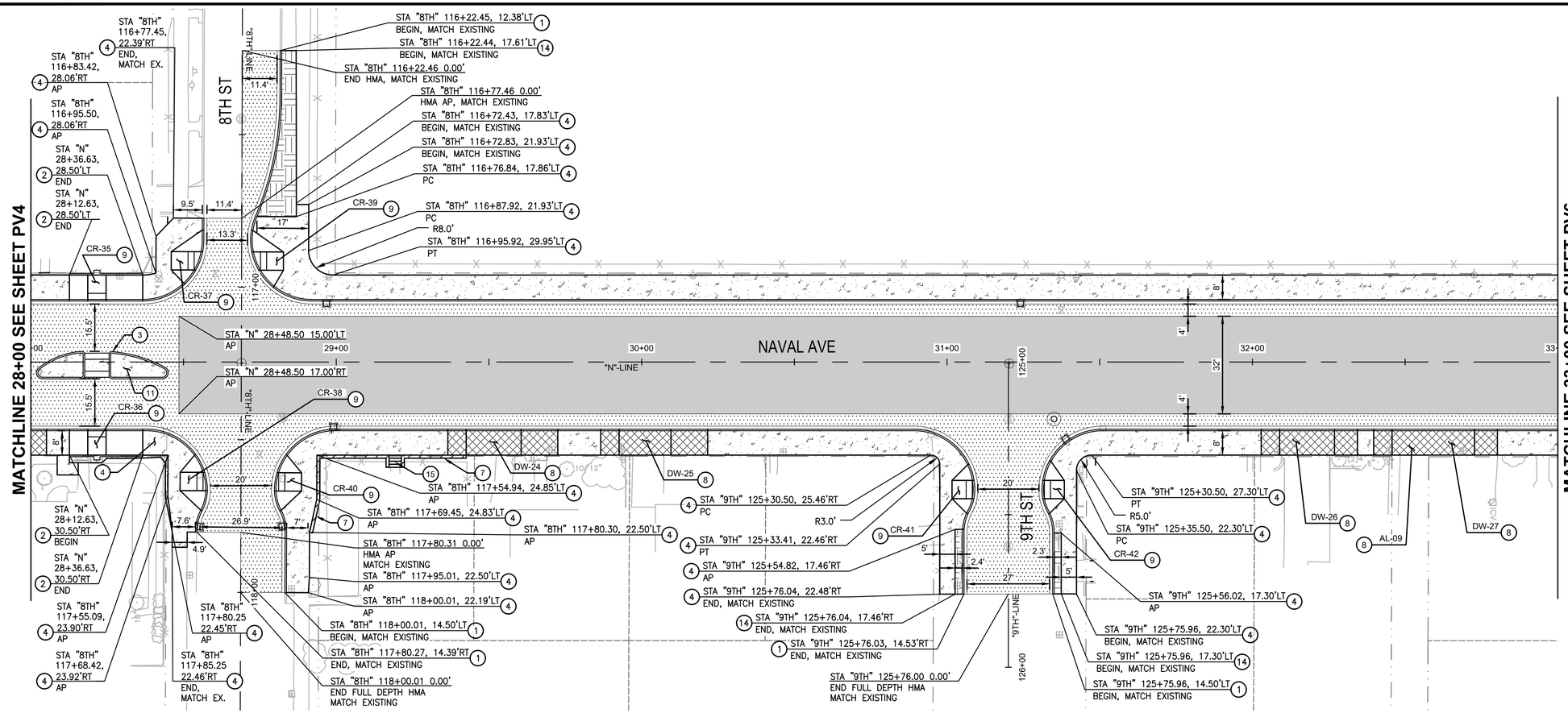
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

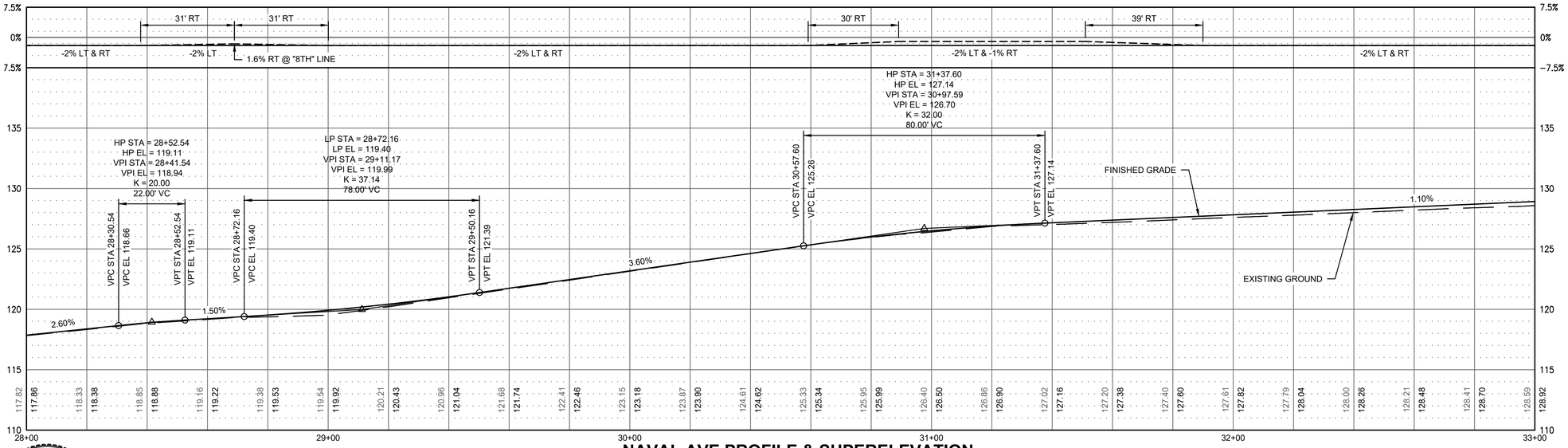
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING PLAN STA 24+00 TO STA 28+00

PN: PROJNUM

PV4
SHEET
42
OF
179





CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
2. CEMENT CONCRETE PEDESTRIAN CURB PER DETAIL 4 ON SHEET PVD2.
3. CEMENT CONCRETE TYPE C–2 CURB PER DETAIL 5 ON SHEET PVD2.
4. CEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET PVD1.
5. CEMENT CONCRETE THICKENED EDGE SIDEWALK PER DETAIL 1 ON SHEET PVD2.
6. CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL PER DETAIL 2 ON SHEET PVD2.
7. RETAINING WALL TO BE DESIGNED AS PART OF ROW PHASE.
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9. CEMENT CONCRETE CURB RAMP. SEE CR SHEETS FOR DETAILS.
10. CEMENT CONC. BIKE RAMP PER DETAIL ON SHEET CR1.
11. RAISED PEDESTRIAN REFUGE PER DETAIL ON SHEET PVD4.
12. RAISED CROSSWALK PER DETAIL ON SHEET PVD3.
13. GRAVEL SHOULDER. DEPTH AND MATERIAL TO BE CONFIRMED AS PART OF 100% DESIGN PHASE.
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GENERAL NOTES

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8. SIDEWALK DIMENSIONS SHOWN ARE MEASURED FROM BACK OF CURB UNLESS NOTED OTHERWISE.

SURFACING LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- PROPERTY LINE
- R/W LINE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

NAVAL AVE PROFILE & SUPERELEVATION

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

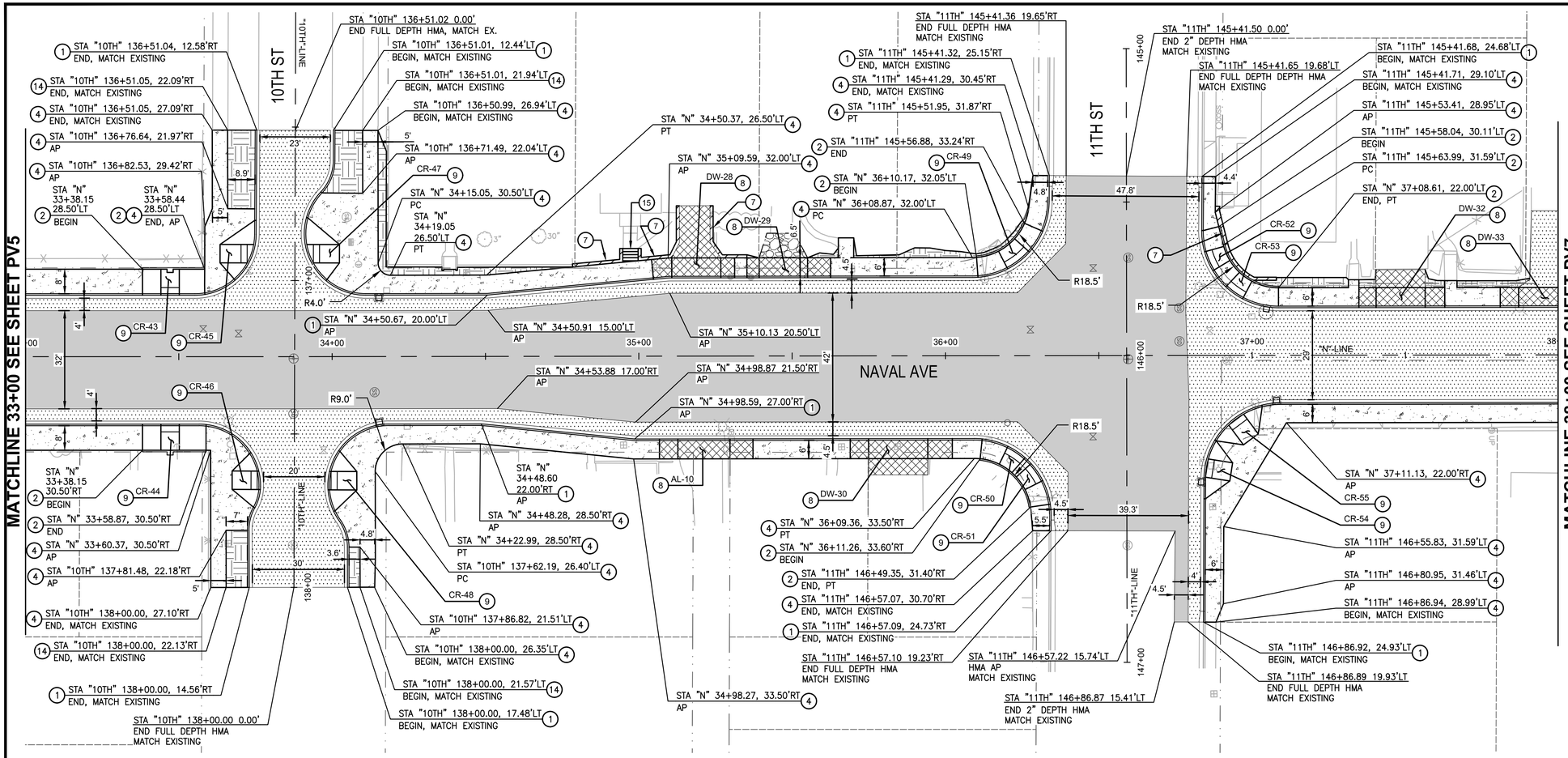
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

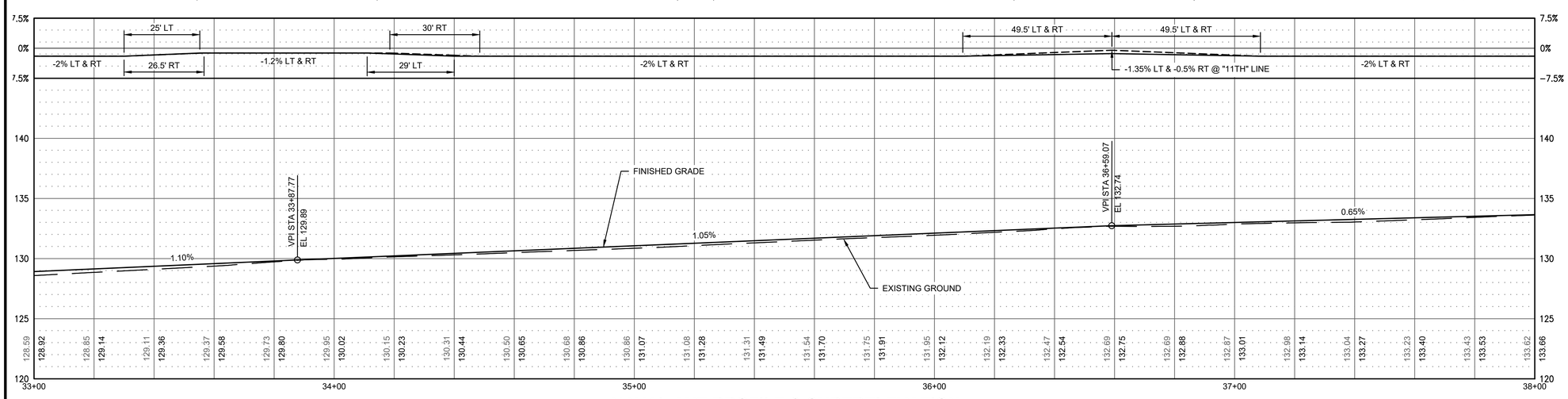
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING PLAN
STA 28+00 TO STA 33+00

PN: PROJNUM

PV5 SHEET 43 OF 179





NAVAL AVE PROFILE & SUPERELEVATION

CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
2. CEMENT CONCRETE PEDESTRIAN CURB PER DETAIL 4 ON SHEET PVD2.
3. CEMENT CONCRETE TYPE C–2 CURB PER DETAIL 5 ON SHEET PVD2.
4. CEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET PVD1.
5. CEMENT CONCRETE THICKENED EDGE SIDEWALK PER DETAIL 1 ON SHEET PVD2.
6. CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL PER DETAIL 2 ON SHEET PVD2.
7. RETAINING WALL TO BE DESIGNED AS PART OF ROW PHASE.
8. CEMENT CONCRETE DRIVEWAY ENTRANCE. SEE DW SHEETS FOR DETAILS.
9. CEMENT CONCRETE CURB RAMP. SEE CR SHEETS FOR DETAILS.
10. CEMENT CONC. BIKE RAMP PER DETAIL ON SHEET CR1.
11. RAISED PEDESTRIAN REFUGE PER DETAIL ON SHEET PVD4.
12. RAISED CROSSWALK PER DETAIL ON SHEET PVD3.
13. GRAVEL SHOULDER. DEPTH AND MATERIAL TO BE CONFIRMED AS PART OF 100% DESIGN PHASE.
14. LANDSCAPING AREA.
15. STAIRS TO BE DESIGNED AS PART OF ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE CHANNELIZATION PLANS FOR CROSSWALK LOCATIONS.
3. SEE UTILITY PLANS FOR UTILITY INFORMATION .
4. SEE CURB RAMP PLANS FOR CURB RAMP INFORMATION.
5. SEE DRIVEWAY PLANS FOR DRIVEWAY INFORMATION.
6. SEE ROADWAY TYPICAL SECTION SHEETS FOR PAVEMENT INFORMATION.
7. SEE INTERSECTION GRADING PLANS FOR ALL CURB RETURN HORIZONTAL AND VERTICAL GEOMETRY AND MINOR STREET PROFILE DATA.
8. SIDEWALK DIMENSIONS SHOWN ARE MEASURED FROM BACK OF CURB UNLESS NOTED OTHERWISE.

SURFACING LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- PROPERTY LINE
- R/W LINE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

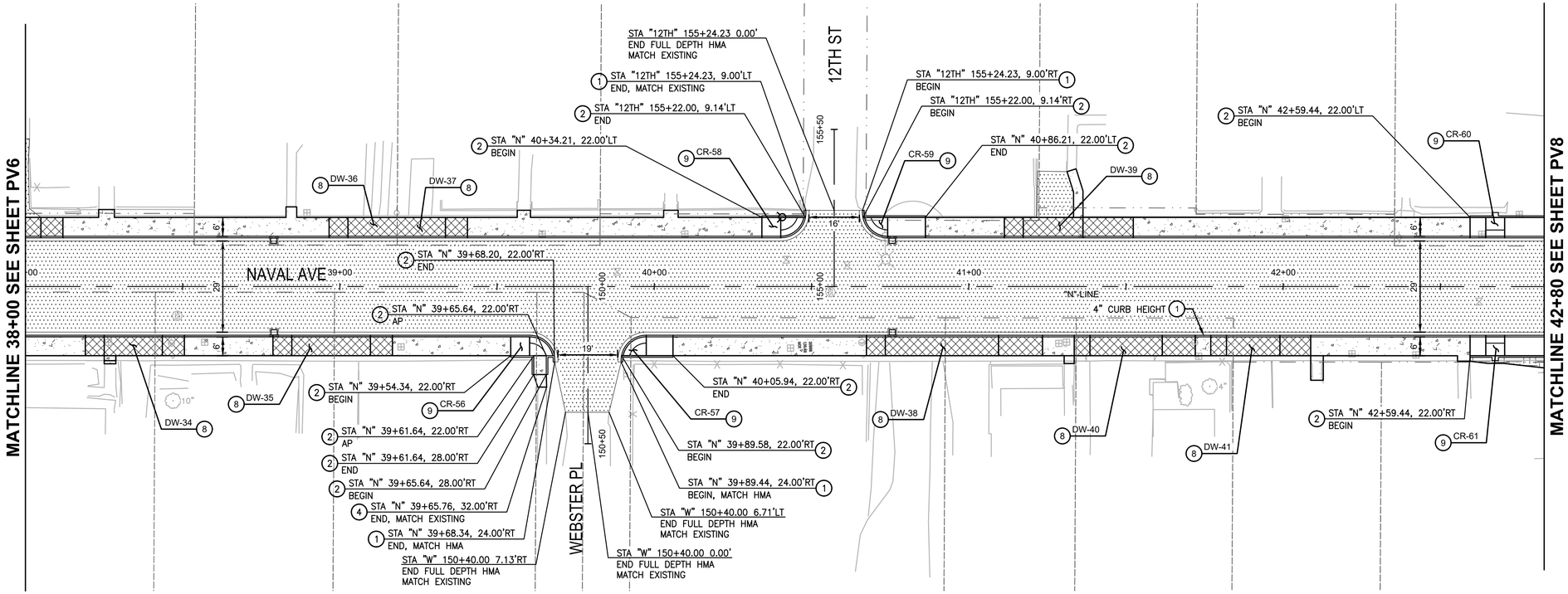
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

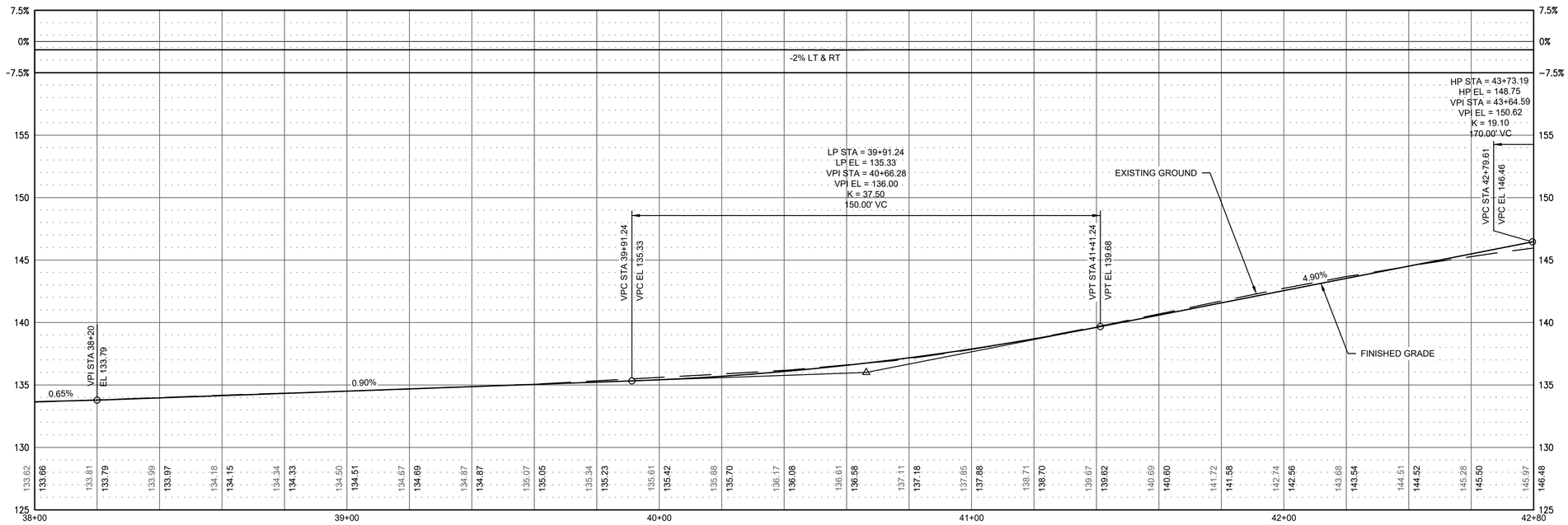
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING PLAN STA 33+00 TO STA 38+00

PN: PROJNUM

PV6 SHEET 44 OF 179





NAVAL AVE PROFILE & SUPERELEVATION

CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER DETAIL 3 ON SHEET PVD2.
2. CEMENT CONCRETE PEDESTRIAN CURB PER DETAIL 4 ON SHEET PVD2.
3. CEMENT CONCRETE TYPE C-2 CURB PER DETAIL 5 ON SHEET PVD2.
4. CEMENT CONCRETE SIDEWALK PER DETAIL 1 ON SHEET PVD1.
5. CEMENT CONCRETE THICKENED EDGE SIDEWALK PER DETAIL 1 ON SHEET PVD2.
6. CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL PER DETAIL 2 ON SHEET PVD2.
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9. CEMENT CONCRETE CURB RAMP. SEE CR SHEETS FOR DETAILS.
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12. RAISED CROSSWALK PER DETAIL ON SHEET PVD3.
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- GRAVEL
- PROPERTY LINE
- R/W LINE

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HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

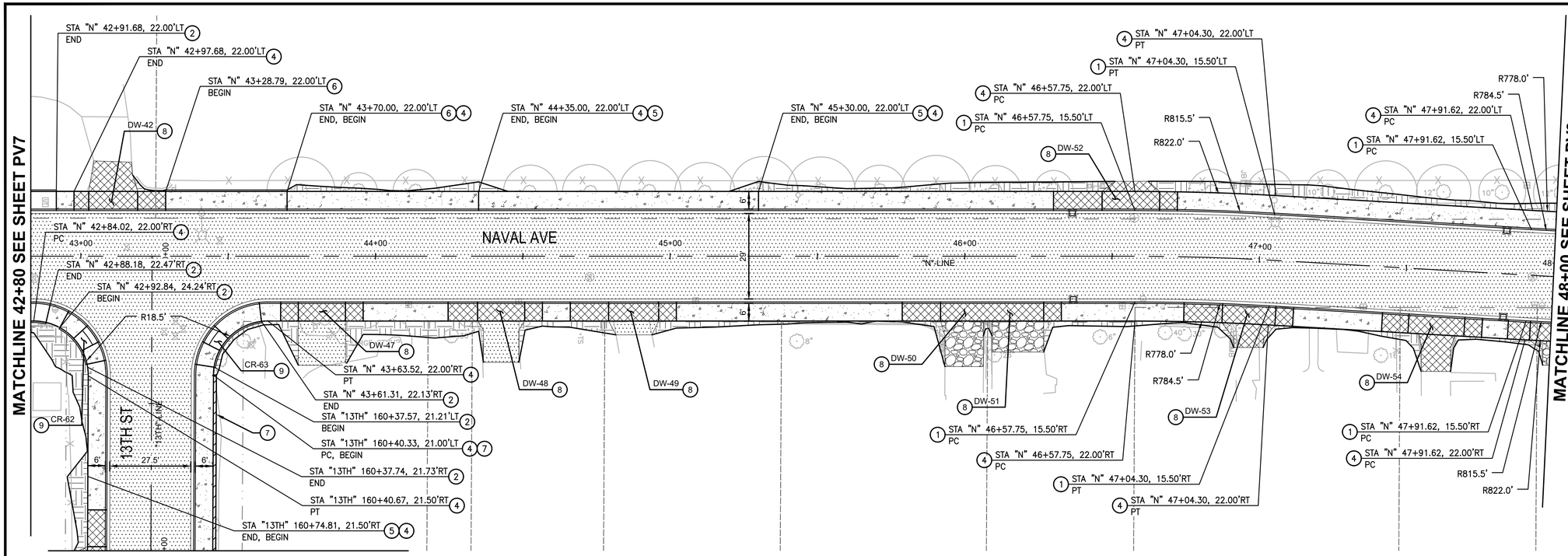
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

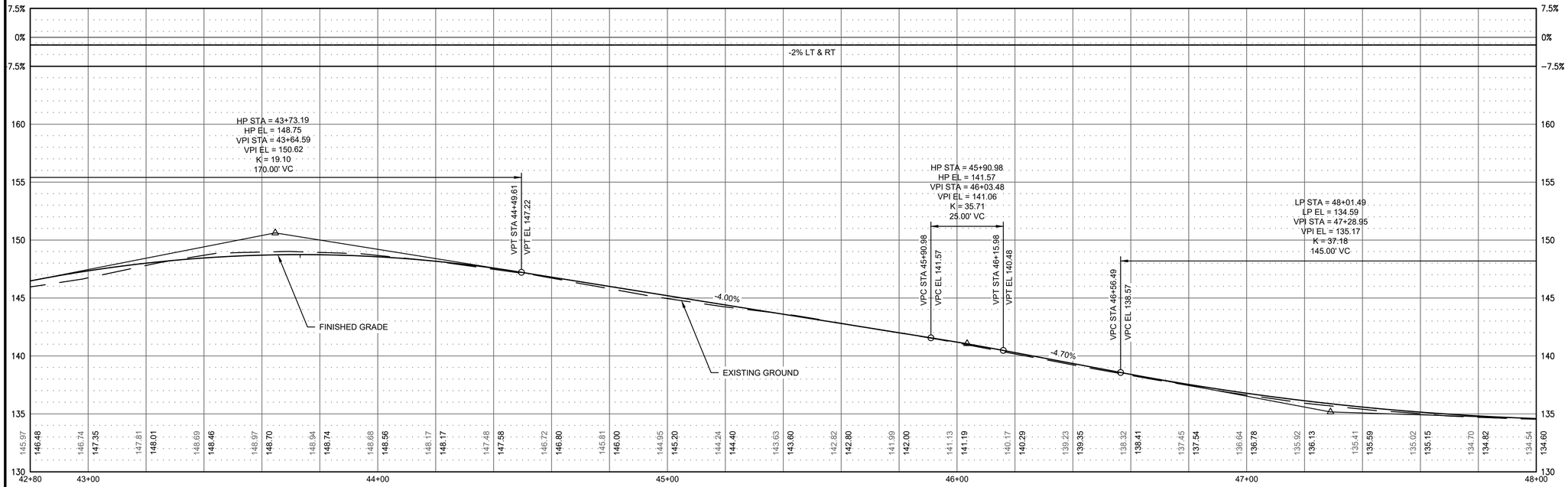
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING PLAN
STA 38+00 TO STA 43+00

PN. PROJNUM

PV7
SHEET
45
OF
179





NAVAL AVE PROFILE & SUPERELEVATION

CONSTRUCTION NOTES

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HORZ SCALE 20' 0' 20' 40' IN FEET

VERT SCALE 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

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TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

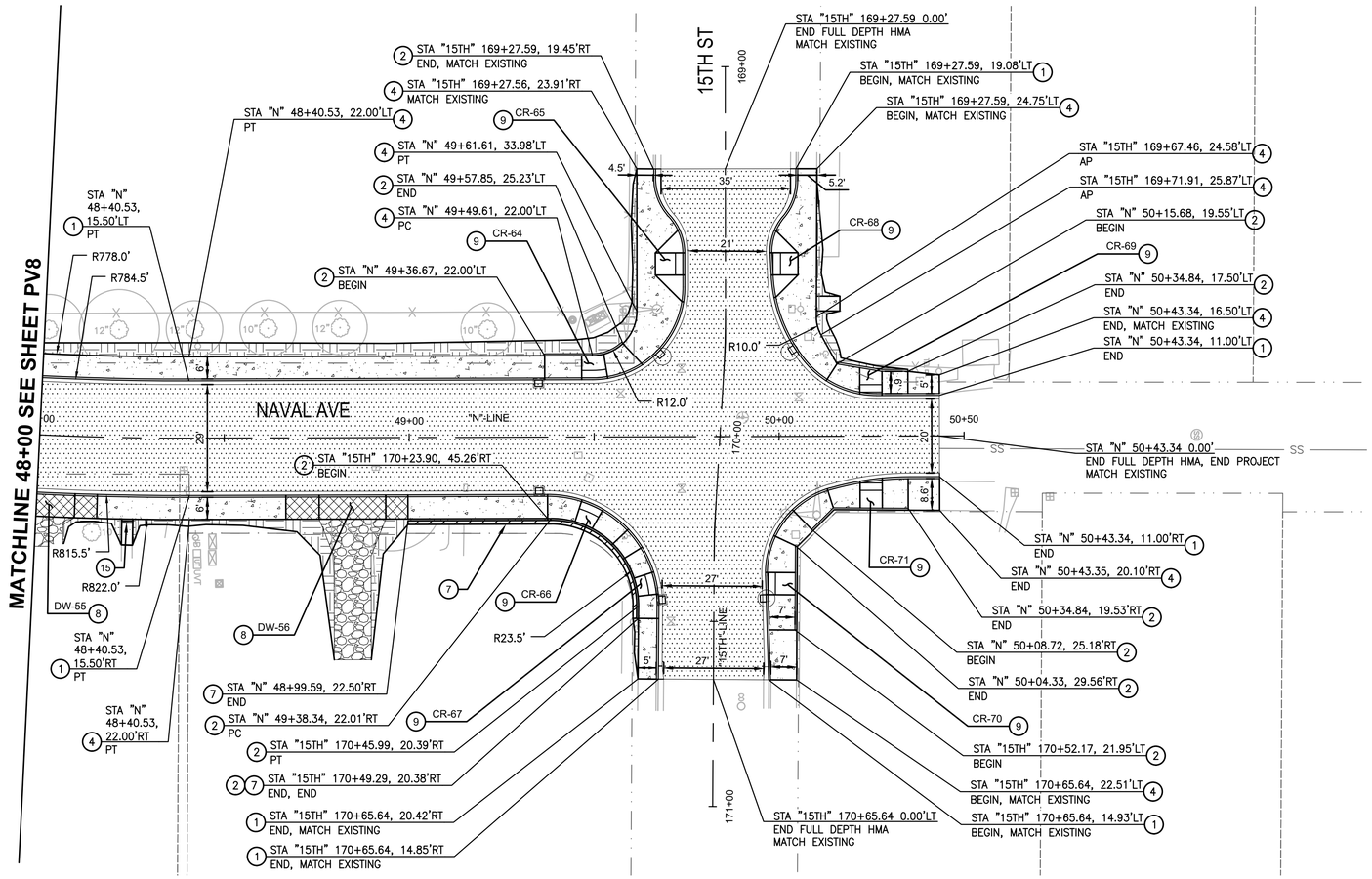
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

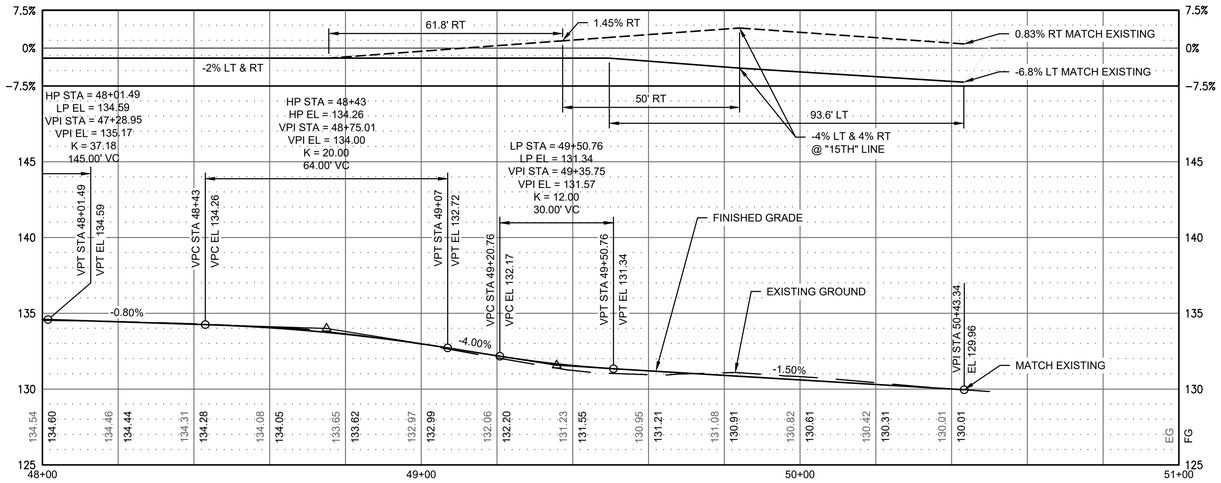
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING PLAN
STA 43+00 TO STA 48+00

PN: PROJNUM

PV8 SHEET 46 OF 179





NAVAL AVE PROFILE & SUPERELEVATION

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HORZ SCALE 20' 0' 20' 40' IN FEET

VERT SCALE 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

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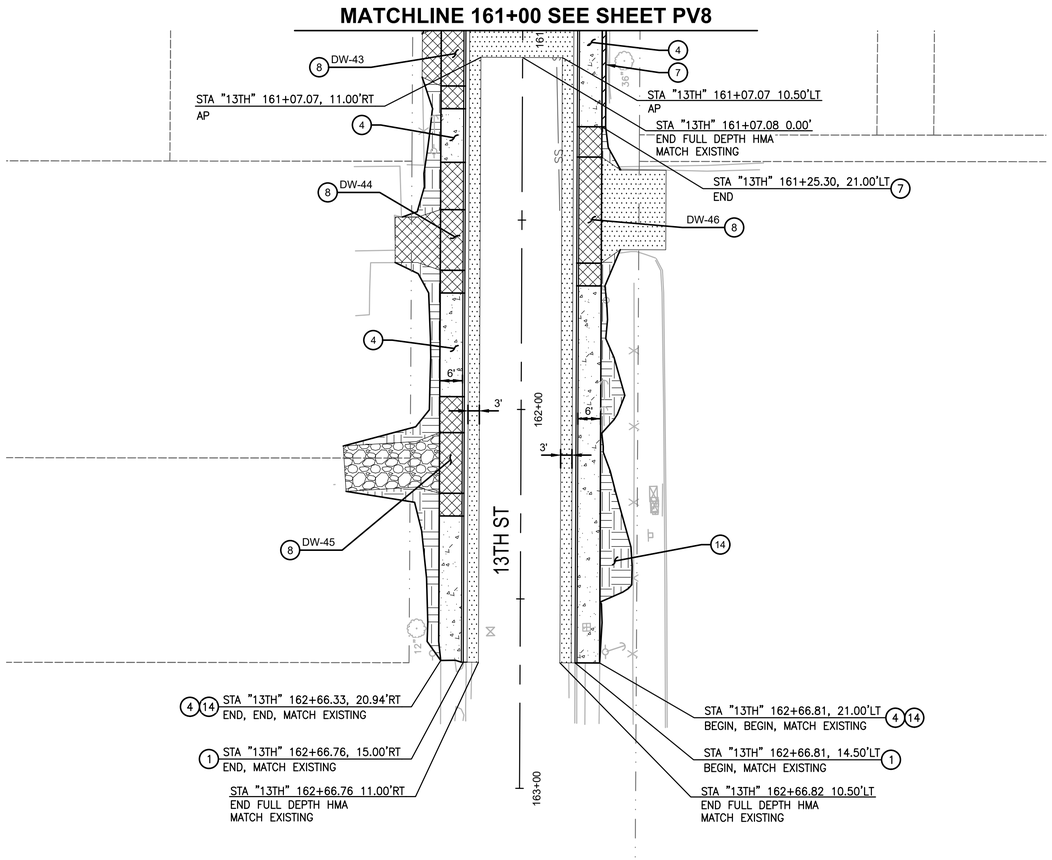
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING PLAN
STA 48+00 TO END

PN: PROJNUM

PV9 SHEET 47 OF 179



CONSTRUCTION NOTES

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HORZ 20' 0' 20' 40' SCALE IN FEET

VERT 10' 0' 5' 10' SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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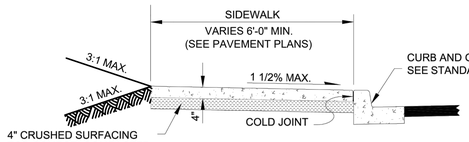
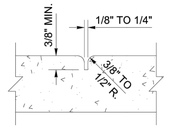
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING PLAN STA 161+00 TO END

PN. PROJNUM

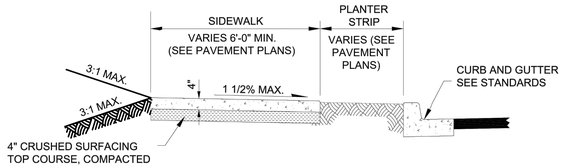
PV10 SHEET 48 OF 179



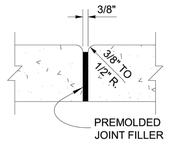
CEMENT CONCRETE SIDEWALK
ADJACENT TO CURB



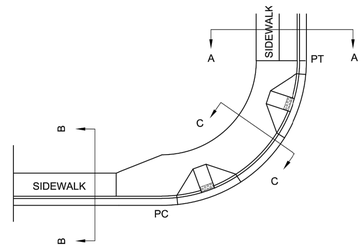
(C) CONTRACTION JOINT

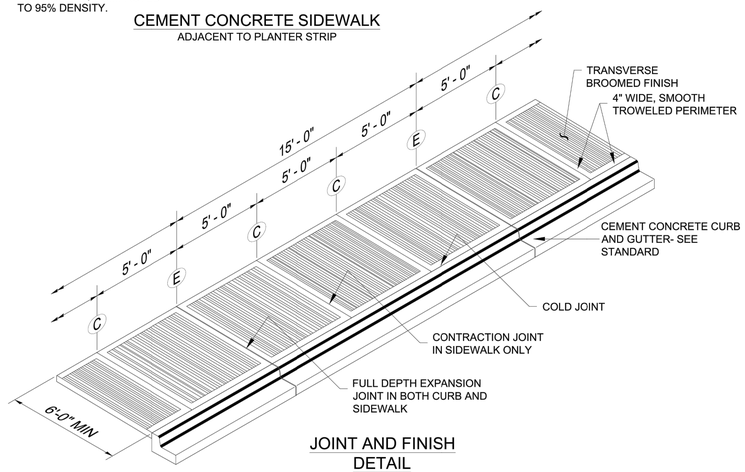


CEMENT CONCRETE SIDEWALK
ADJACENT TO PLANTER STRIP



(E) EXPANSION JOINT

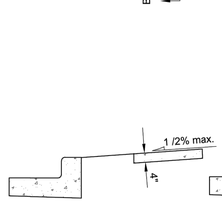




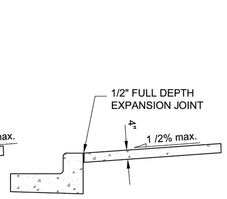
JOINT AND FINISH DETAIL

NOTES:

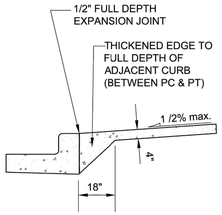
1. SIDEWALKS THROUGH CONCRETE DRIVEWAYS SHALL BE 6" THICK.
2. SIDEWALKS SHALL BE CLASS 3000 CEMENT CONCRETE.
3. SEE STANDARD DRAWING 3102 FOR SPECIFIC SIDEWALK REQUIREMENTS IN DOWNTOWN ZONE.
4. FORM AND SUBGRADE INSPECTION IS REQUIRED BEFORE PLACING CONCRETE.
5. CONCRETE SIDEWALKS SHALL BE CURED FOR 72 HRS. MIN.



SECTION A-A



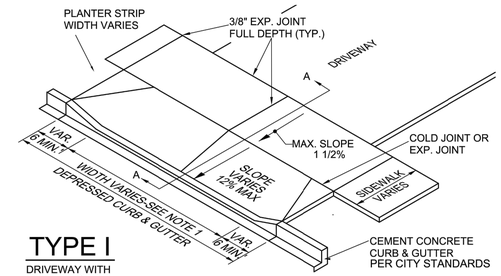
SECTION B-B



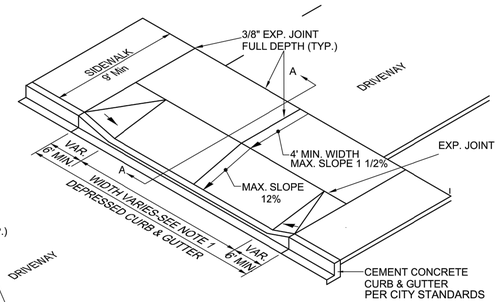
SECTION C-C

NOTES:

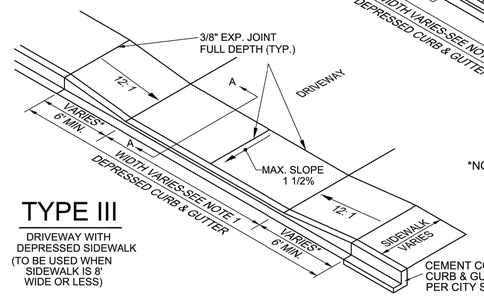
1. CONTROL JOINTS SHALL BE SPACED TO CORRESPOND TO THE MARKINGS IN EXISTING SIDEWALKS, OR AS DIRECTED BY THE DIRECTOR.
2. ALL UTILITY POLES, SHALL HAVE A 1-FOOT ISOLATION JOINT OF 3/4" PREMOLDED JOINT FILLER.
3. ALL SIDEWALK EDGES SHALL HAVE 1/2"RADIUS.
4. MINIMUM WIDTH OF SIDEWALK IS 6' (NOT INCLUDING THE WIDTH OF THE CURB OR POLES).
5. THICKENED EDGES ARE REQUIRED FOR SIDEWALKS AT CORNERS, BUT NOT ON TANGENT SECTIONS. ALL CURB RAMPS SHALL HAVE A THICKENED EDGE TO THE DEPTH OF THE ADJACENT CURB, INCLUDING CURB RAMPS BUILT ON TANGENT SECTIONS OF SIDEWALK. WHEN MONOLITHIC CURB AND SIDEWALK IS APPROVED FOR USE, THICKENED EDGES ARE REQUIRED AT ALL LOCATIONS.
6. FOR WHEELCHAIR RAMP DETAILS SEE CR SHEETS.



TYPE I
DRIVEWAY WITH
PLANTER STRIP
(WHERE STRIP IS
4' WIDE OR GREATER)



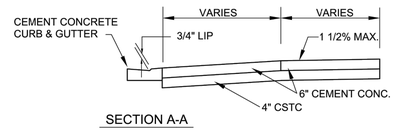
TYPE II
DRIVEWAY WITH
WIDE SIDEWALK



TYPE III
DRIVEWAY WITH
DEPRESSED SIDEWALK
(TO BE USED WHEN
SIDEWALK IS 8'
WIDE OR LESS)

*NOTE: WHERE GRADE EXCEED FEDERAL REQUIREMENTS, THE LENGTH OF RAMP SHALL BE EXTENDED TO 15' MINIMUM.

NOTES:
1. DRIVEWAY WIDTH SHALL BE IDENTIFIED ON PLANS. RESIDENTIAL: 10'-20' COMMERCIAL:25'-35'
2. WHERE D/W EXCEEDS 15' WIDTH A FULL DEPTH EXPANSION JOINT SHALL BE PLACED TRANSVERSLY, CENTERED IN WALK.
3. FORM AND SUBGRADE INSPECTION ARE REQUIRED BEFORE POURING CONCRETE.
4. DRIVEWAYS SHALL BE 6" THICK, AIR-ENTRAINED 4000 PSI SIDEWALK AND DRIVEWAY APRON SHALL BE 6" THICK, 3000 PSI THROUGH DRIVEWAY SECTION.
5. CONCRETE SHALL BE CURED FOR 72 HRS. MIN.
6. COMMERCIAL DRIVEWAYS SHALL BE 8-INCHES FOR MINIMUM THICKNESS.



SECTION A-A

CEMENT CONCRETE SIDEWALK DETAIL (1)
NOT TO SCALE
CITY OF BREMERTON STANDARD PLAN 3101, REVISION DATE 6/22/21
BACK OF WALK CONDITION MODIFIED FROM STANDARD PLAN

CEMENT CONCRETE SIDEWALK CORNER TREATMENT DETAIL (2)
NOT TO SCALE
CITY OF BREMERTON STANDARD PLAN 3113, REVISION DATE 3/4/16

CEMENT CONCRETE DRIVEWAY APPROACH DETAIL (3)
NOT TO SCALE
CITY OF BREMERTON STANDARD PLAN 3121, REVISION DATE 6/20/16

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

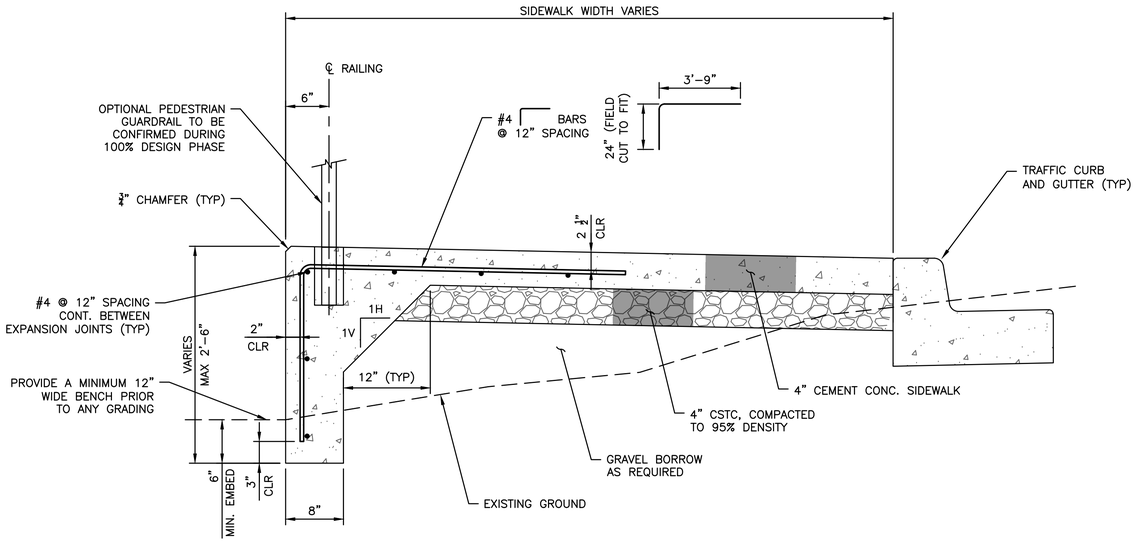
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVING DETAILS

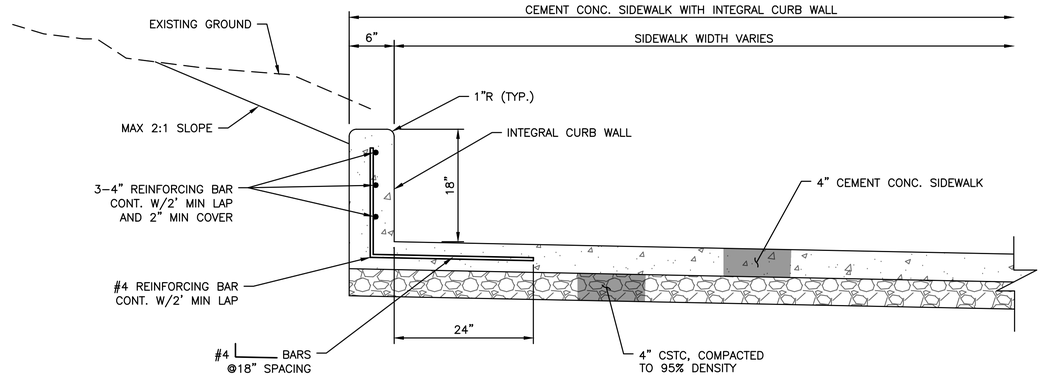
PN: PROJNUM

PVD1
SHEET
49
OF
179



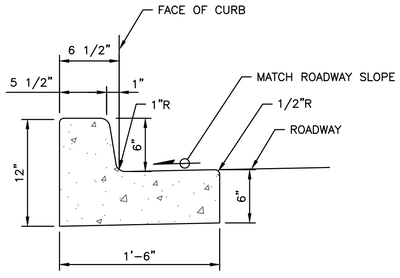
CEMENT CONCRETE THICKENED EDGE SIDEWALK DETAIL (1)

NOT TO SCALE

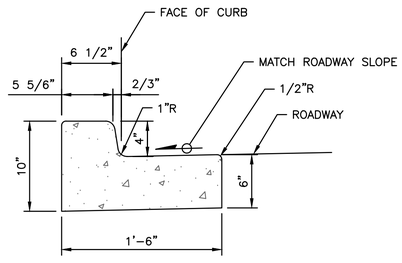


CEMENT CONC. SIDEWALK WITH INTEGRAL CURB WALL DETAIL (2)

NOT TO SCALE



STANDARD CURB

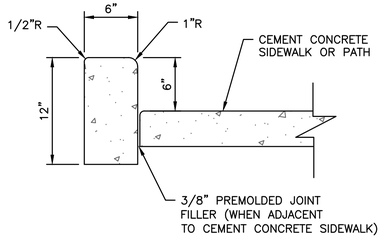


MODIFIED 4" HIGH CURB

WHERE SHOWN ON PAVING PLANS

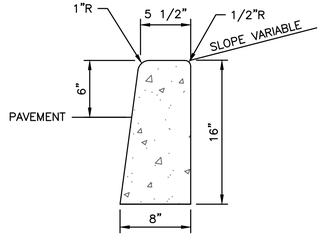
CEMENT CONCRETE TRAFFIC CURB DETAILS (3)

NOT TO SCALE
WSDOT STANDARD PLAN F-10.12-04, REVISION DATE 9/24/20

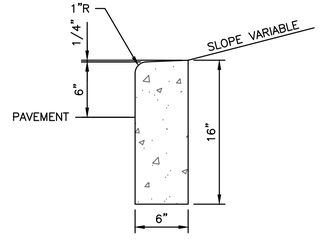


CEMENT CONCRETE PEDESTRIAN CURB DETAILS (4)

NOT TO SCALE
WSDOT STANDARD PLAN F-10.12-04, REVISION DATE 9/24/20



TYPE C-1 CURB



TYPE C-2 CURB

CEMENT CONCRETE CURB TYPE C DETAILS (5)

NOT TO SCALE
CITY OF BREMERTON STANDARD PLAN 3133, REVISION DATE 8/28/13

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

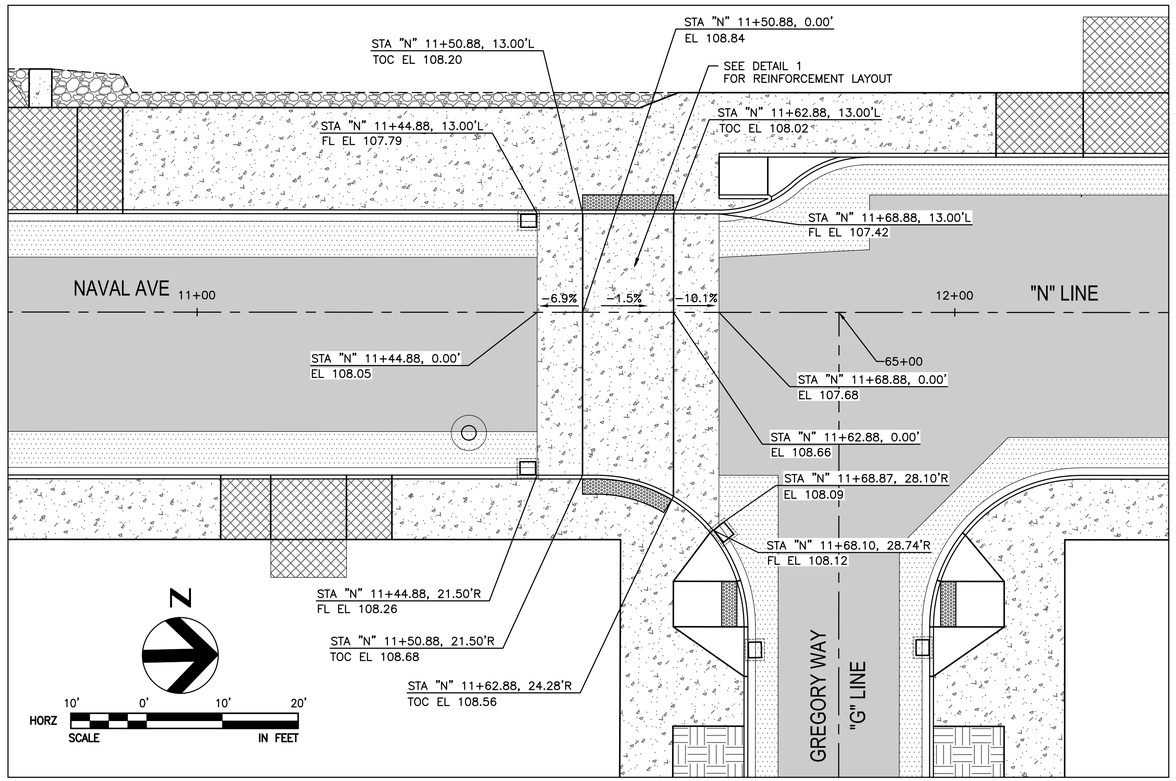
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

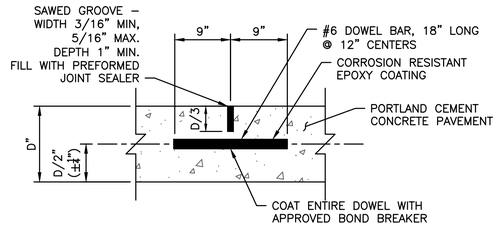
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING DETAILS

P.N. PROJNUM

PVD2
SHEET
50
OF
179



RAISED CROSSWALK GRADING AND LAYOUT PLAN



TRANSVERSE CONTRACTION JOINT 2
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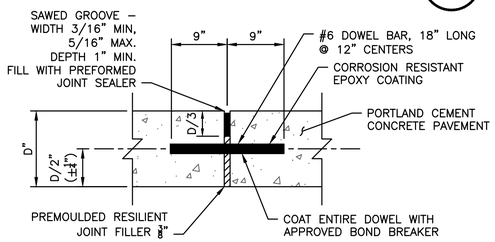
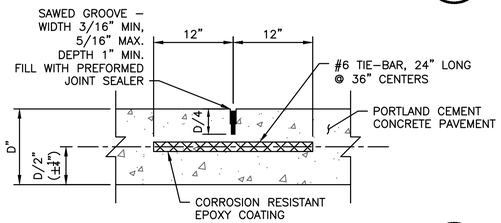
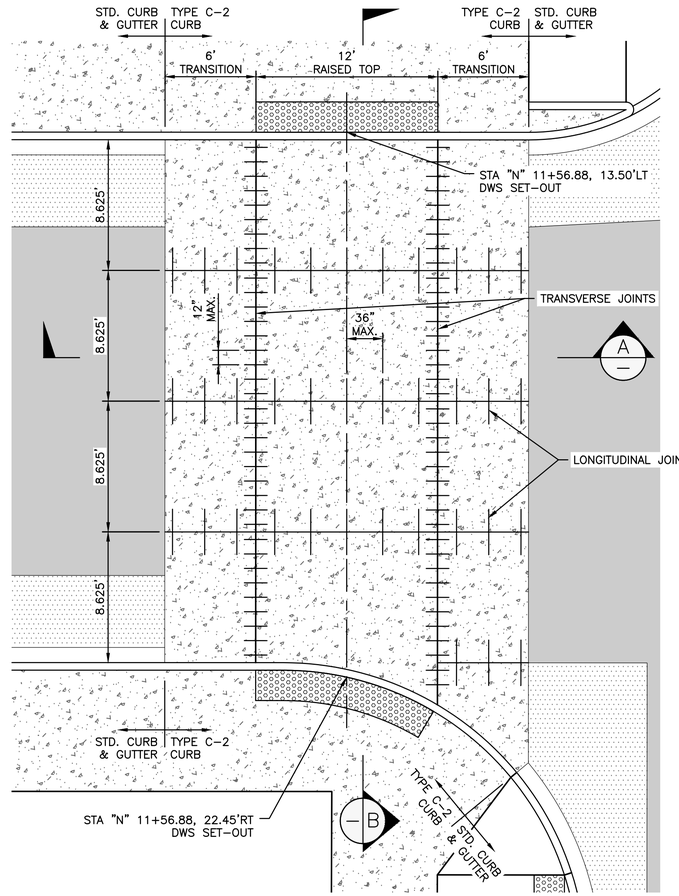


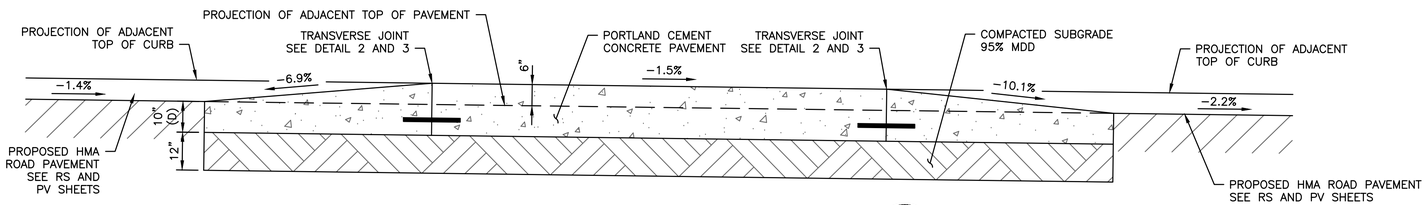
TRANSVERSE EXPANSION JOINT 3
NOT TO SCALE



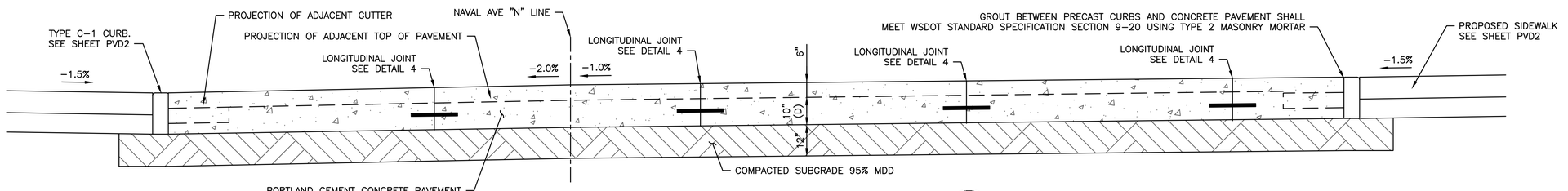
TIED LONGITUDINAL JOINT 4
NOT TO SCALE



RAISED CROSSWALK REINFORCEMENT DETAIL 1
NOT TO SCALE



RAISED CROSSWALK LONGITUDINAL SECTION A
NOT TO SCALE



RAISED CROSSWALK TRANSVERSE SECTION B
NOT TO SCALE

SURFACING LEGEND

- CEMENT CONCRETE PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE

GENERAL NOTES

1. FOR RAISED CROSSWALK PAVEMENT MARKINGS, SEE CH SHEETS.
2. FOR RAISED CROSSWALK SIGNING, SEE SN SHEETS.
3. IF A LONGITUDINAL JOINT IS TO BE PLACED IN THE WHEEL PATH DUE TO PROJECT STAGING, PLACE TIE BARS @ 24" CENTERS. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL NUMBER OF TIES.
4. ALL DOWELS, TIE–BARS AND BAR ENDS ARE TO HAVE A MINIMUM OF 3" COVER IN ALL DIRECTIONS.
5. STANDARD LONGITUDINAL TIE OFFSET FROM TRANSVERSE JOINT IS 15" (TYP.)
6. LONGITUDINAL TIES ARE TO BE 3/4" IN DIAMETER AND SHALL HAVE A DEFORMED SURFACE.
7. STANDARD TRANSVERSE BAR OFFSET FROM LONGITUDINAL JOINT IS 12" (TYP.)
8. TRANSVERSE BARS ARE TO BE 1 1/2" IN DIAMETER AND SHALL HAVE A SMOOTH SURFACE.
9. ADDITIONAL SAWCUT AND JOINT SEAL DETAILS TO BE PROVIDED WITH THE 90% DESIGN SUBMISSION.

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

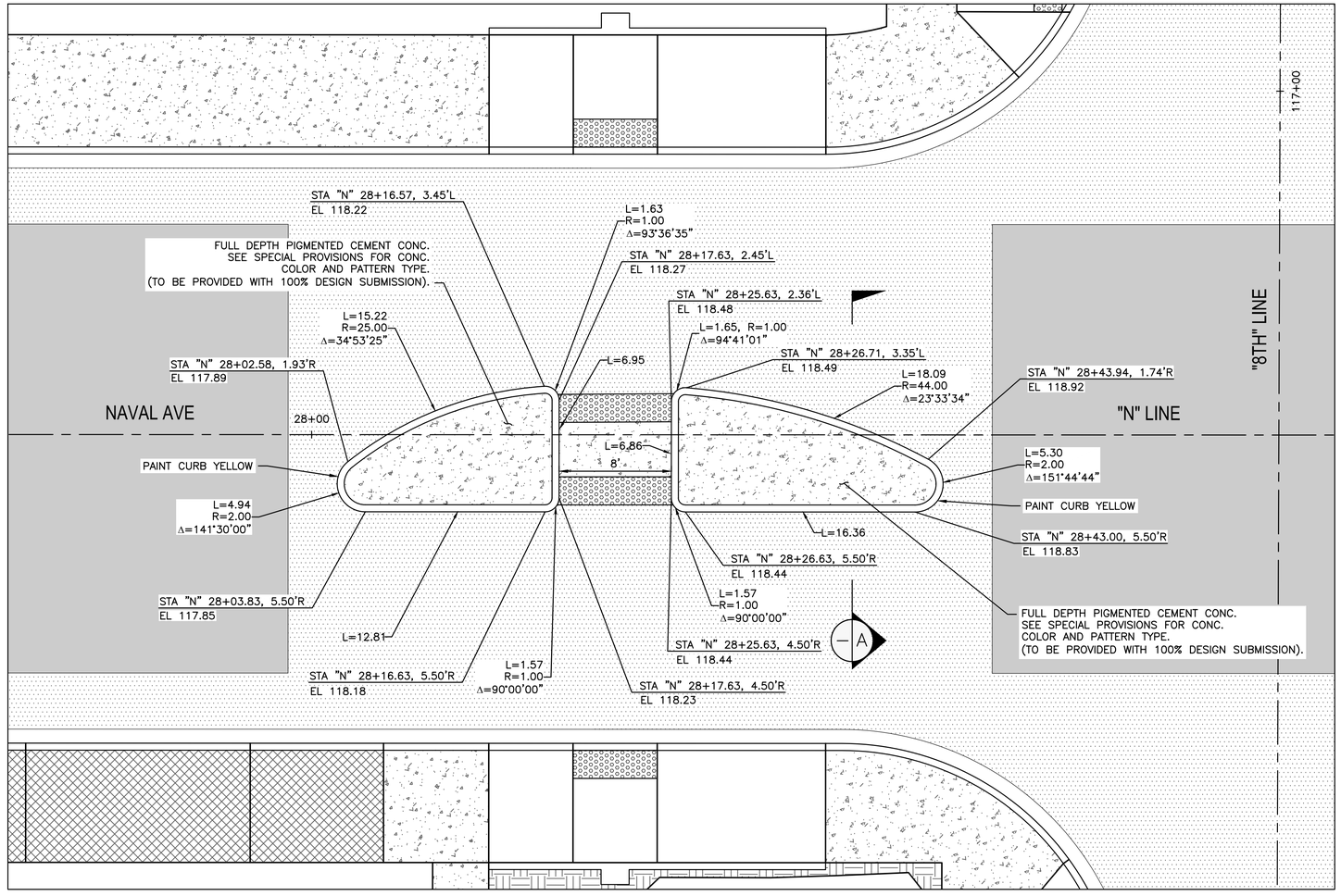
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

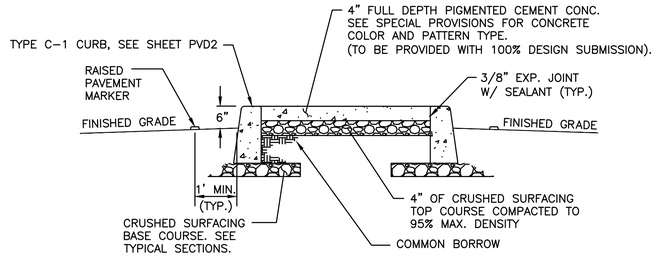
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING DETAILS

PN: PROJNUM

PVD3
SHEET
51
OF
179

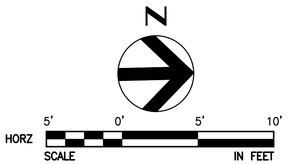


PEDESTRIAN REFUGE GRADING AND LAYOUT PLAN



PEDESTRIAN REFUGE TYPICAL CROSS SECTION (A)

NOT TO SCALE



GENERAL NOTES

1. FOR PEDESTRIAN REFUGE PAVEMENT MARKINGS, SEE CH SHEETS.
2. FOR PEDESTRIAN REFUGE SIGNING, SEE SN SHEETS.
3. REFUGE ISLAND TO MATCH ROADWAY SLOPES

SURFACING LEGEND

- CEMENT CONCRETE PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- DETECTABLE WARNING SURFACE

CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
PAVING DETAILS

PN: PROJNUM

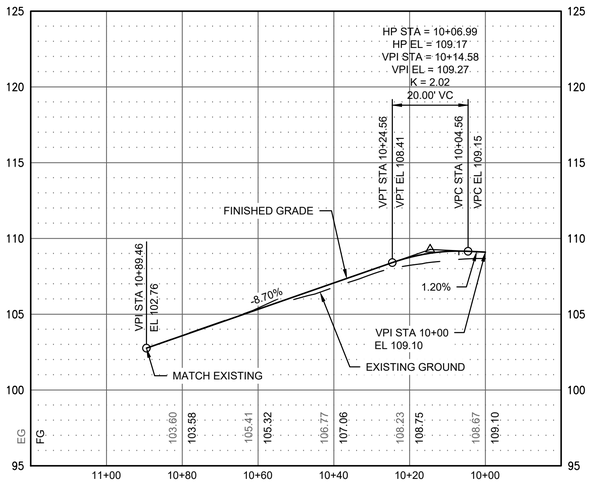
PVD4
SHEET
52
OF
179

GENERAL NOTES

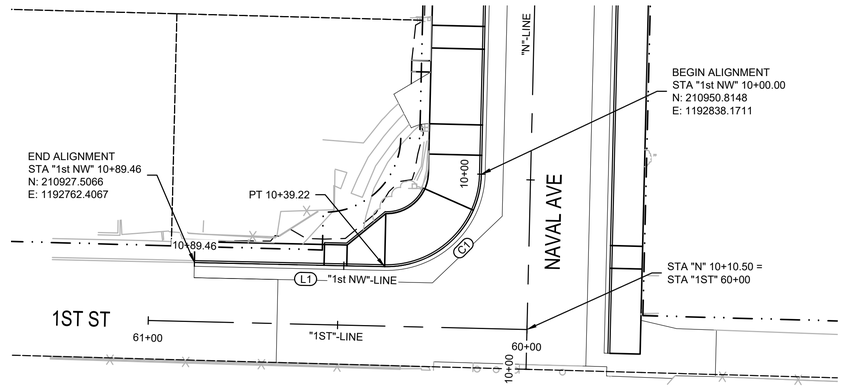
1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE



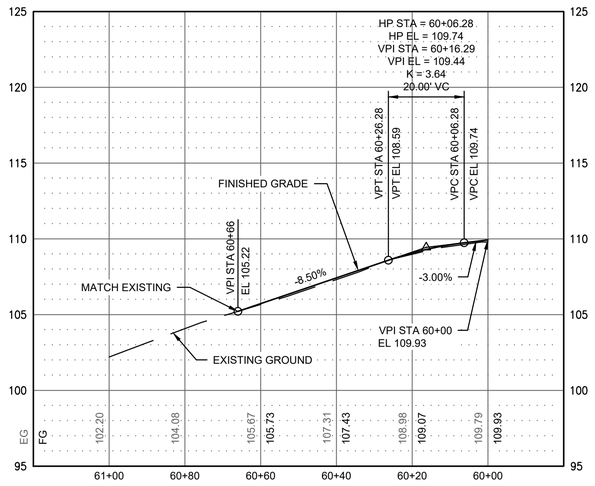
1ST ST - NW FLOWLINE PROFILE



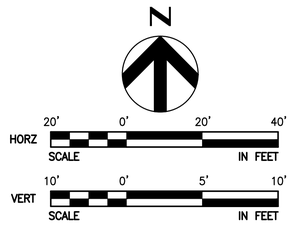
1ST ST & NAVAL AVE PLAN VIEW

"1st NW" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C1	10+00.00	210950.8148,1192838.1711	39.22'	25.00'	10+24.95	210925.87,1192837.58	89°52'41"	S46°18'16"W	10+39.22	210926.4164,1192812.6356
L1	10+39.22	210926.4164,1192812.6356	50.24'					N88°45'24"W	10+89.46	210927.5066,1192762.4067



1ST ST - ROADWAY CENTERLINE PROFILE



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

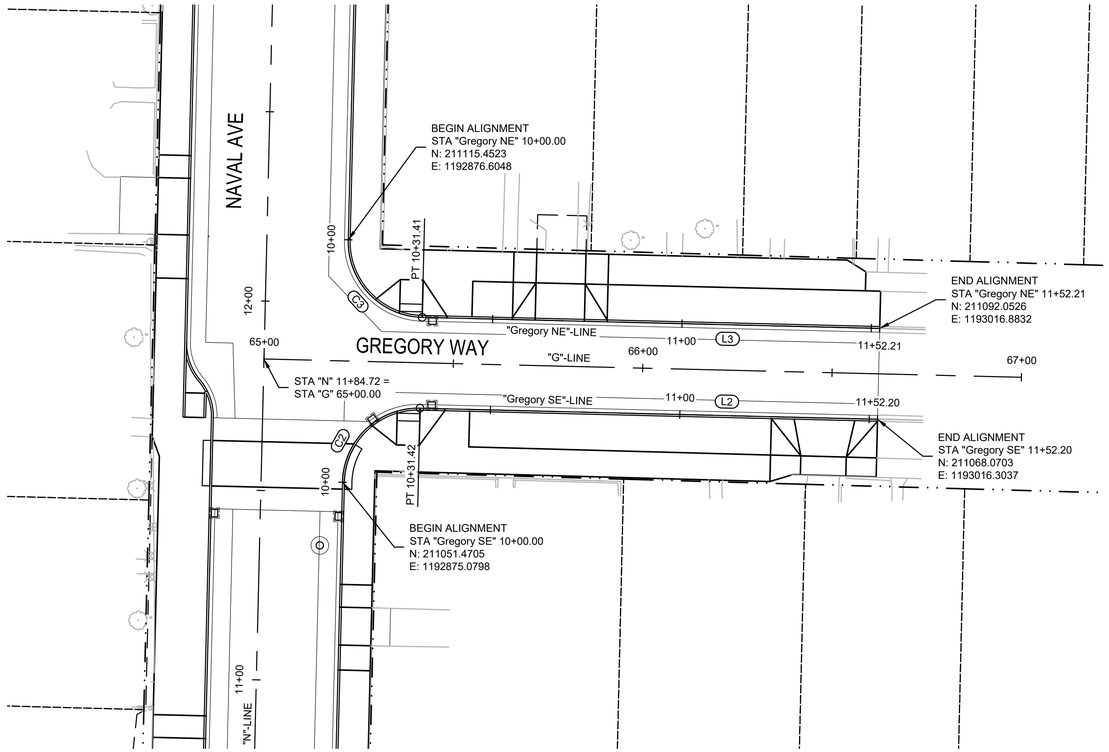
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

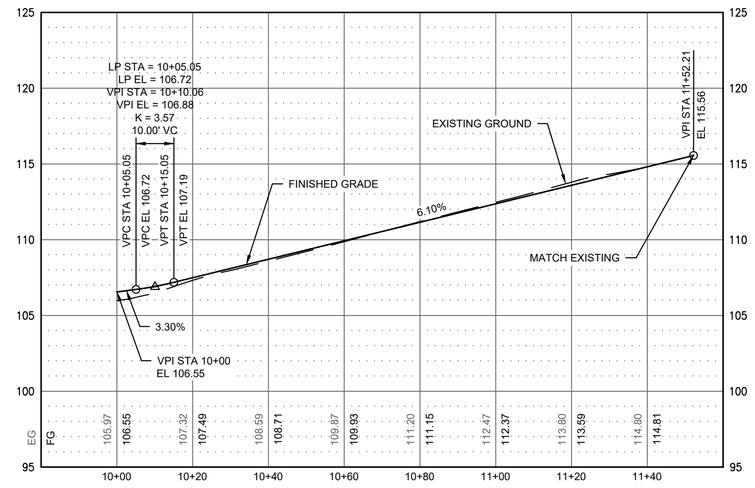
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

P.N. PROJNUM

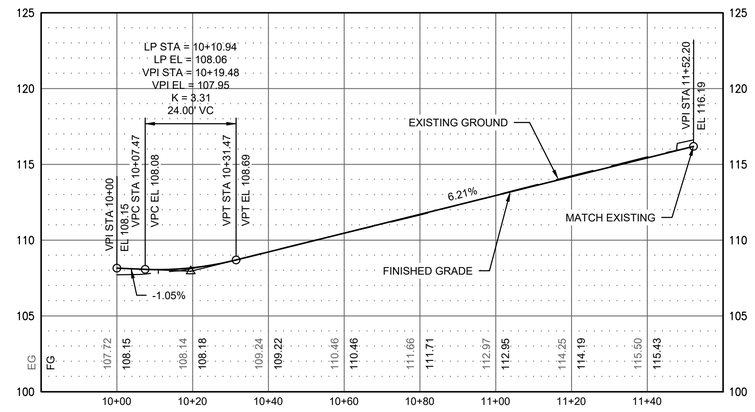
IG1
SHEET
53
OF
179



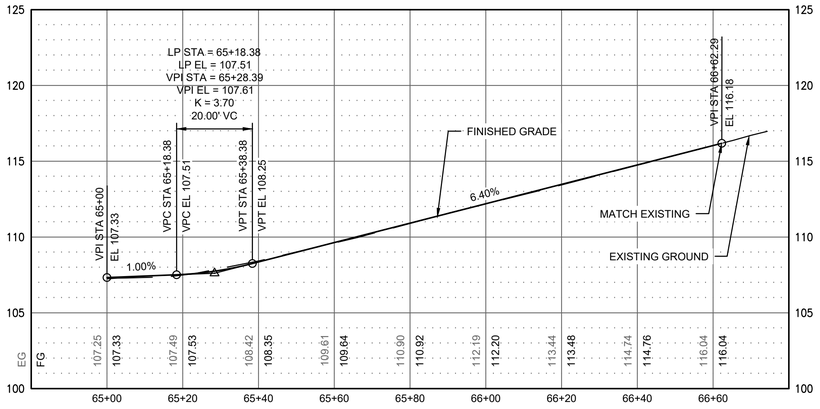
GREGORY WAY & NAVAL AVE PLAN VIEW



GREGORY WAY - NE FLOWLINE PROFILE



GREGORY WAY - SE FLOWLINE PROFILE



GREGORY WAY - ROADWAY CENTERLINE PROFILE

GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

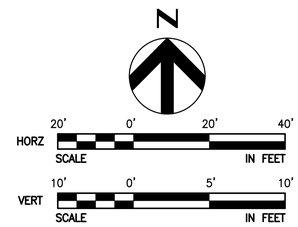
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

"Gregory SE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C2	10+00.00	211051.4705,1192875.0798	31.42'	20.00'	10+20.01	211071.47,1192875.56	90°01'08"	N46°22'29"E	10+31.42	211070.9881,1192895.5573
L2	10+31.42	211070.9881,1192895.5573	120.78'					S88°36'57"E	11+52.20	211068.0703,1193016.3037

"Gregory NE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C3	10+00.00	211115.4523,1192876.6048	31.41'	20.00'	10+19.99	211095.46,1192876.13	89°58'52"	S43°37'31"E	10+31.41	211094.9816,1192896.1159
L3	10+31.41	211094.9816,1192896.1159	120.80'					S88°36'57"E	11+52.21	211092.0633,1193016.8835



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

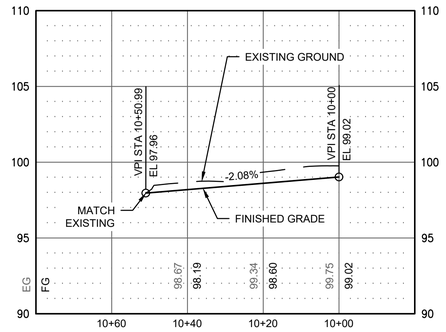
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

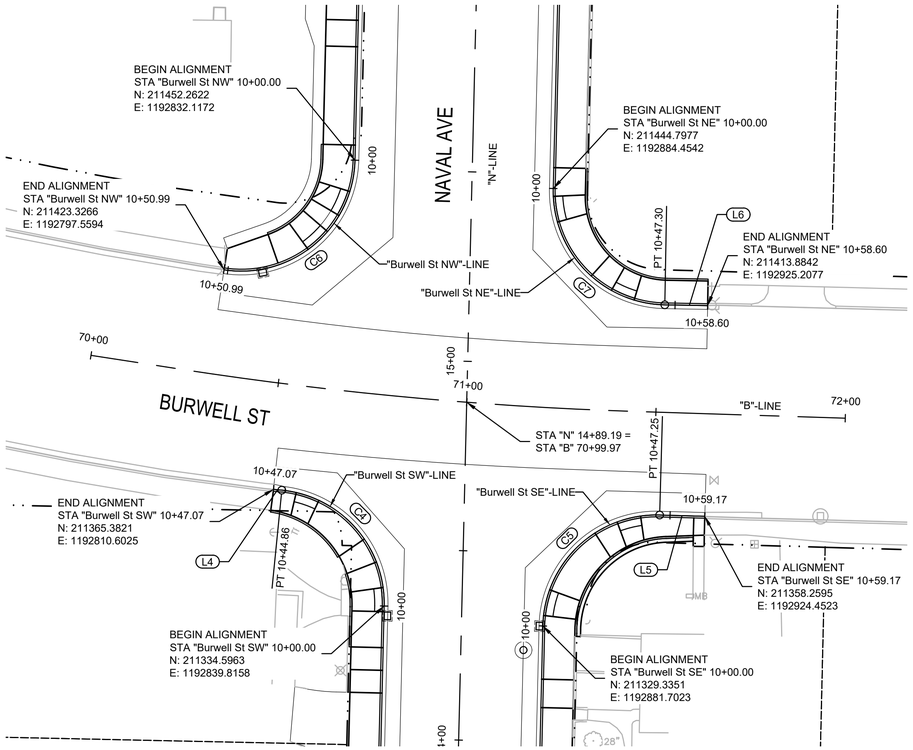
PN: PROJNUM

IG2
SHEET
54
OF
179

"Burwell St NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C6	10+00.00	211452.2622,1192832.1172	50.99'	30.00'	10+34.14	211418.13,1192831.30	97°23'24"	S50°03'37"W	10+50.99	211423.3266,1192797.5593

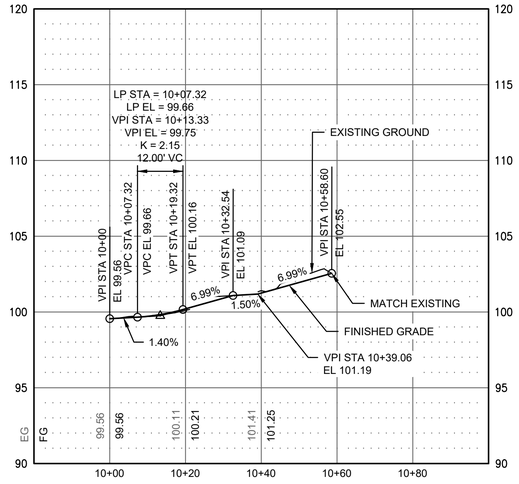


BURWELL ST - NW FLOWLINE PROFILE

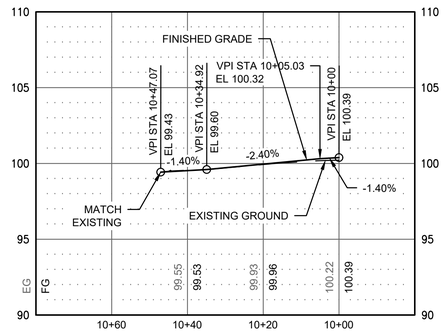


BURWELL ST & NAVAL AVE PLAN VIEW

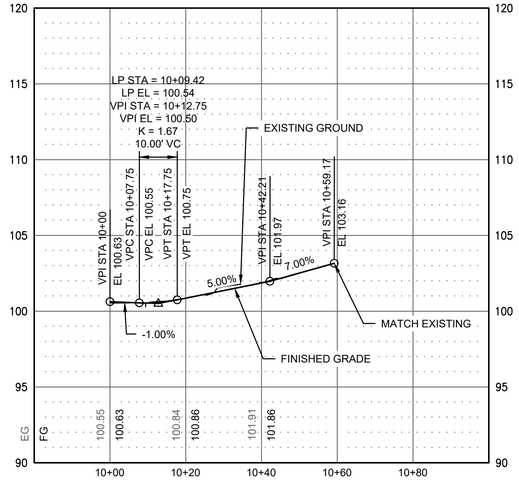
"Burwell St NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C7	10+00.00	211444.7977,1192884.4542	47.30'	30.00'	10+30.18	211414.63,1192883.74	90°20'02"	S43°48'06"E	10+47.30	211414.0877,1192913.9057
L6	10+47.30	211414.0877,1192913.9057	11.30'					S88°58'07"E	10+58.60	211413.8842,1192925.2077



BURWELL ST - NE FLOWLINE PROFILE



BURWELL ST - SW FLOWLINE PROFILE



BURWELL ST - SE FLOWLINE PROFILE

"Burwell St SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C4	10+00.00	211334.5963,1192839.8158	44.86'	30.00'	10+27.82	211362.41,1192840.48	85°40'32"	N41°28'21"W	10+44.86	211365.1633,1192812.7985
L4	10+44.86	211365.1633,1192812.7985	2.21'					N84°18'37"W	10+47.07	211365.3821,1192810.6025

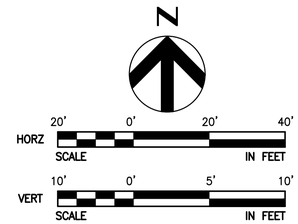
"Burwell St SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C5	10+00.00	211329.3351,1192881.7023	47.25'	30.00'	10+30.13	211359.46,1192882.42	90°14'57"	N46°29'23"E	10+47.25	211358.6084,1192912.5390
L5	10+47.25	211358.6084,1192912.5390	11.92'					S88°23'08"E	10+59.17	211358.2726,1192924.4526

GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- —— · —— R/W LINE



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

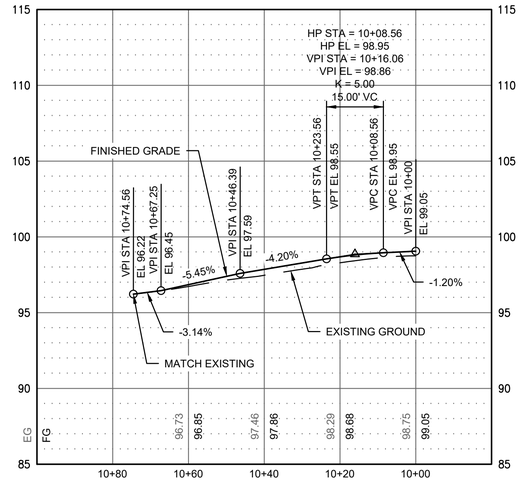
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

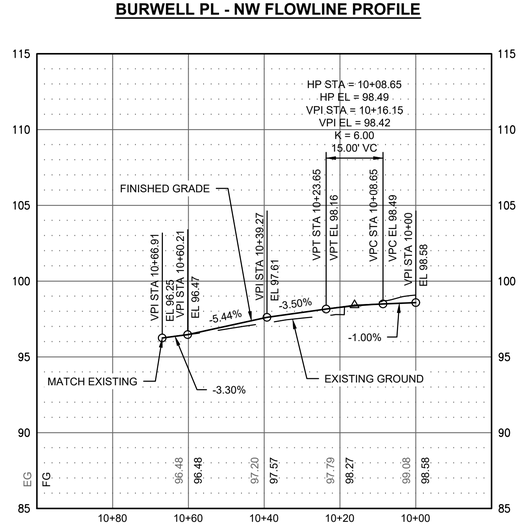
PN: PROJNUM

IG3
SHEET
55
OF
179

"Burwell Pl NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C11	10+00.00	211592.4469,1192845.9613	31.42'	20.00'	10+20.00	211572.45,1192845.48	90°00'00"	S46°21'55"W	10+31.42	211572.9291,1192825.4904
L8	10+31.42	211572.9291,1192825.4904	14.98'					N88°38'05"W	10+46.39	211573.2859,1192810.5193
C12	10+46.39	211573.2859,1192810.5193	10.43'	15.00'	10+51.83	211573.42,1192805.09	39°49'44"	N68°43'13"W	10+56.82	211576.9944,1192800.9975
C13	10+56.82	211576.9944,1192800.9975	10.43'	15.00'	10+62.25	211580.57,1192796.91	39°49'44"	N68°43'13"W	10+67.25	211580.7029,1192791.4758
L9	10+67.25	211580.7029,1192791.4758	7.31'					N88°38'05"W	10+74.56	211580.8771,1192784.1681

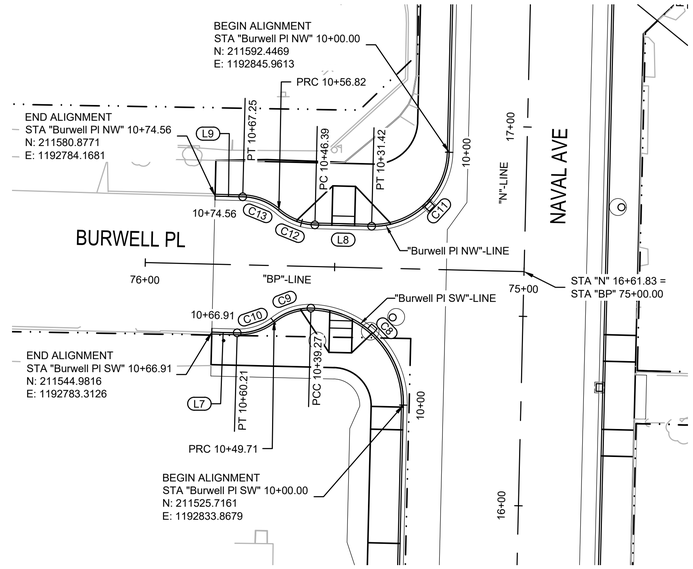


BURWELL PL - NW FLOWLINE PROFILE

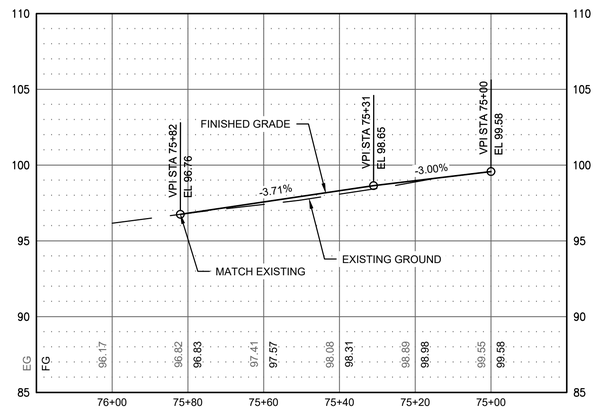


BURWELL PL - SW FLOWLINE PROFILE

"Burwell Pl SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C8	10+00.00	211525.7161,1192833.8679	39.27'	25.00'	10+25.00	211550.71,1192834.46	89°59'54"	N43°38'02"W	10+39.27	211551.3046,1192809.4714
C9	10+39.27	211551.3046,1192809.4714	10.44'	15.00'	10+44.71	211551.43,1192804.03	39°51'55"	S71°26'04"W	10+49.71	211548.0483,1192799.7762
C10	10+49.71	211548.0483,1192799.7762	10.50'	15.00'	10+55.18	211544.64,1192795.49	40°06'17"	S71°33'15"W	10+60.21	211544.7936,1192790.0183
L7	10+60.21	211544.7936,1192790.0183	6.71'					N88°23'37"W	10+66.91	211544.9816,1192783.3126



BURWELL PL & NAVAL AVE PLAN VIEW



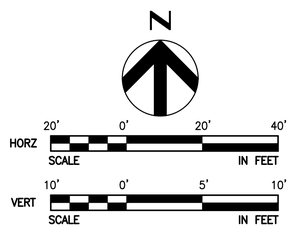
BURWELL PL - ROADWAY CENTERLINE PROFILE

GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- —— · · —— R/W LINE



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

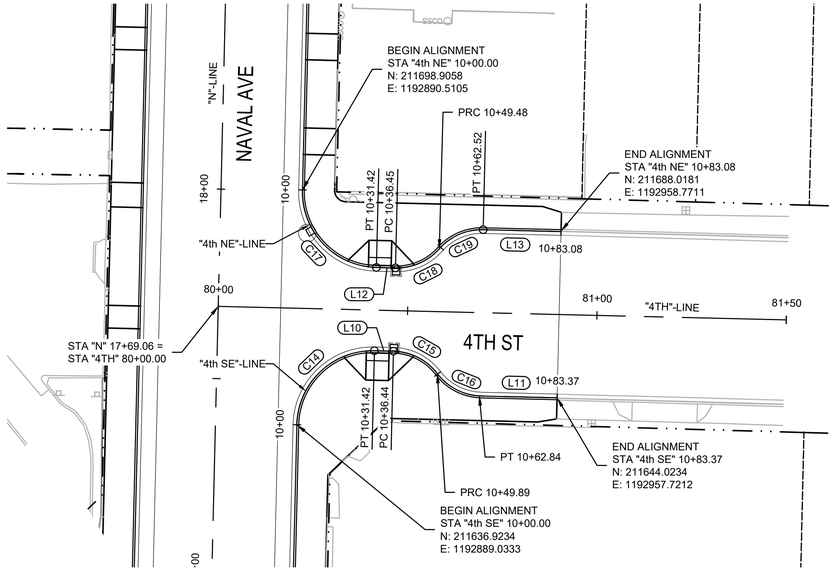
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

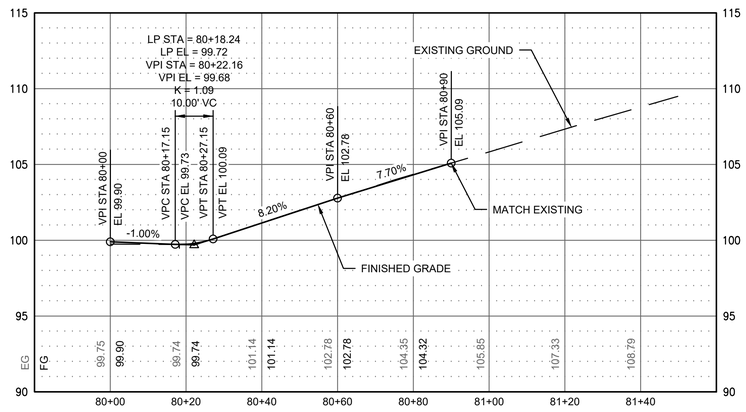
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

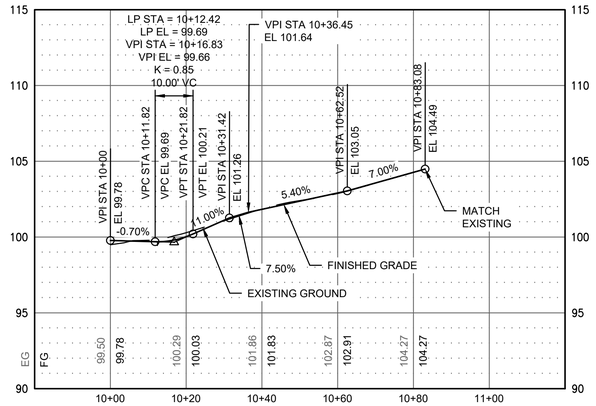
IG4
SHEET
56
OF
179



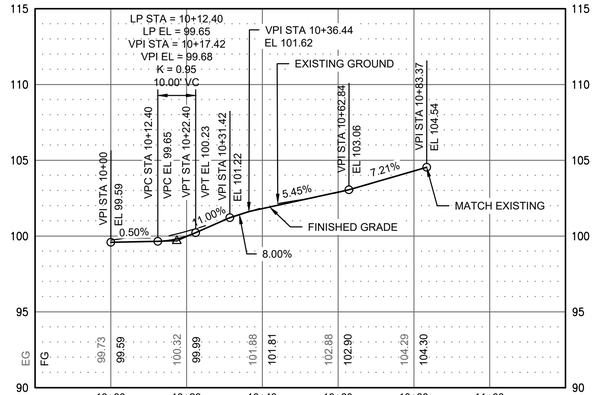
4TH ST & NAVAL AVE PLAN VIEW



4TH ST - ROADWAY CENTERLINE PROFILE



4TH ST - NE FLOWLINE PROFILE



4TH ST - SE FLOWLINE PROFILE

"4th NE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C17	10+00.00	211698.9058,1192890.5105	31.42'	20.00'	10+20.00	211678.91,1192890.03	90°00'00"	S43°38'05"E	10+31.42	211678.4349,1192910.0283
L12	10+31.42	211678.4349,1192910.0283	5.03'					S88°38'05"E	10+36.45	211678.3151,1192915.0570
C18	10+36.45	211678.3151,1192915.0570	13.04'	15.00'	10+43.41	211678.15,1192922.02	49°47'45"	N66°28'03"E	10+49.48	211683.3579,1192926.6367
C19	10+49.48	211683.3579,1192926.6367	13.04'	15.00'	10+56.44	211688.57,1192931.26	49°47'45"	N66°28'03"E	10+62.52	211688.4007,1192938.2164
L13	10+62.52	211688.4007,1192938.2164	20.56'					S88°38'05"E	10+83.08	211687.9109,1192958.7686

"4th SE" - LINE ALIGNMENT TABLE

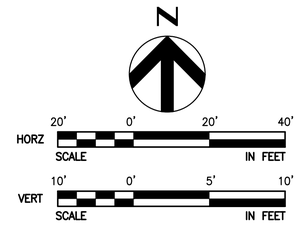
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C14	10+00.00	211636.9234,1192889.0333	31.42'	20.00'	10+20.00	211656.92,1192889.51	90°00'00"	N46°21'55"E	10+31.42	211656.4412,1192909.5041
L10	10+31.42	211656.4412,1192909.5041	5.03'					S88°38'05"E	10+36.44	211656.3214,1192914.5306
C15	10+36.44	211656.3214,1192914.5306	13.44'	15.00'	10+43.66	211656.15,1192921.74	51°21'20"	S62°57'25"E	10+49.89	211650.4112,1192926.1087
C16	10+49.89	211650.4112,1192926.1087	12.95'	15.00'	10+56.80	211644.91,1192930.29	49°28'10"	S62°00'50"E	10+62.84	211644.5208,1192937.1933
L11	10+62.84	211644.5208,1192937.1933	20.53'					S88°36'43"E	10+83.37	211644.0234,1192957.7212

GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
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REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
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HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

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DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
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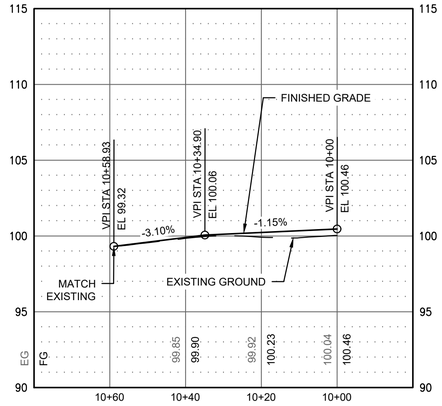
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

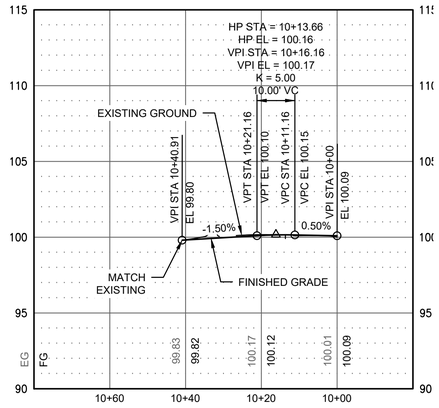
PN: PROJNUM

IG5
SHEET
57
OF
179

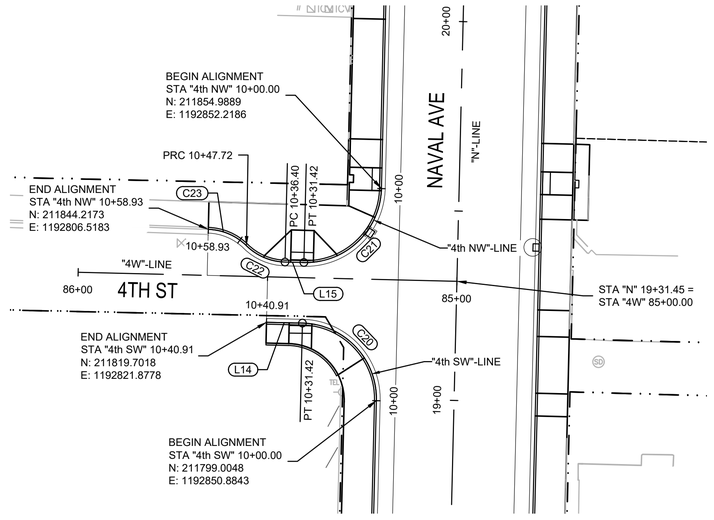
"4th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C21	10+00.00	211854.9889,1192852.2186	31.42'	20.00'	10+20.00	211834.99,1192851.74	90°00'00"	S46°21'55"W	10+31.42	211835.4711,1192831.7477
L15	10+31.42	211835.4711,1192831.7477	4.98'					N88°38'05"W	10+36.40	211835.5898,1192826.7664
C22	10+36.40	211835.5898,1192826.7664	11.32'	15.00'	10+42.34	211835.73,1192820.82	43°14'01"	N67°01'05"W	10+47.72	211839.9049,1192816.5917
C23	10+47.72	211839.9049,1192816.5917	11.22'	15.00'	10+53.60	211844.04,1192812.40	42°50'47"	N66°49'28"W	10+58.93	211844.2173,1192806.5183



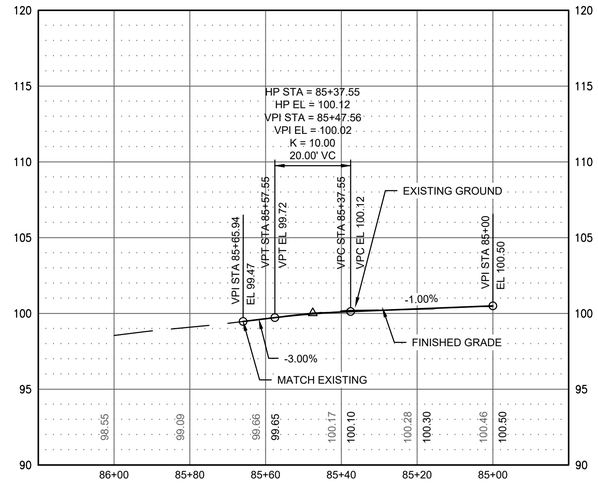
4TH ST (W) - NW FLOWLINE PROFILE



4TH ST (W) - SW FLOWLINE PROFILE



4TH ST (W) & NAVAL AVE PLAN VIEW



4TH ST (W) - ROADWAY CENTERLINE PROFILE

"4th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C20	10+00.00	211799.0048,1192850.8843	31.42'	20.00'	10+20.00	211819.00,1192851.36	90°00'00"	N43°38'05"W	10+31.42	211819.4756,1192831.3665
L14	10+31.42	211819.4756,1192831.3665	9.49'					N88°38'05"W	10+40.91	211819.7018,1192821.8778

GENERAL NOTES

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LEGEND

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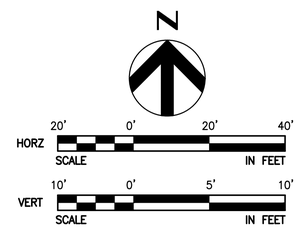


CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

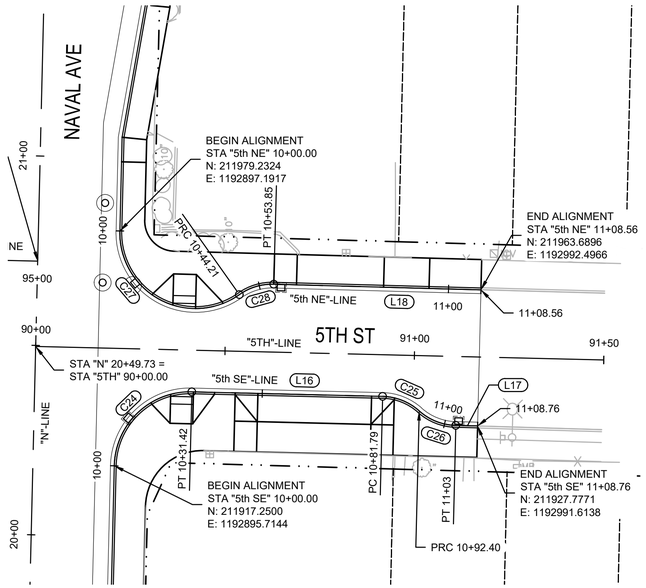
IG6
SHEET
58
OF
179

GENERAL NOTES

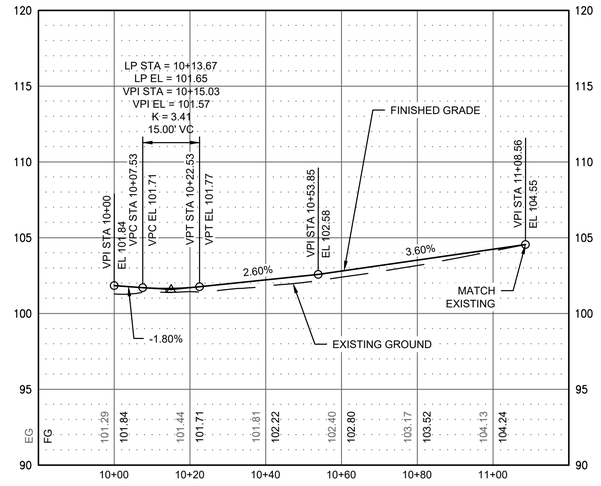
1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

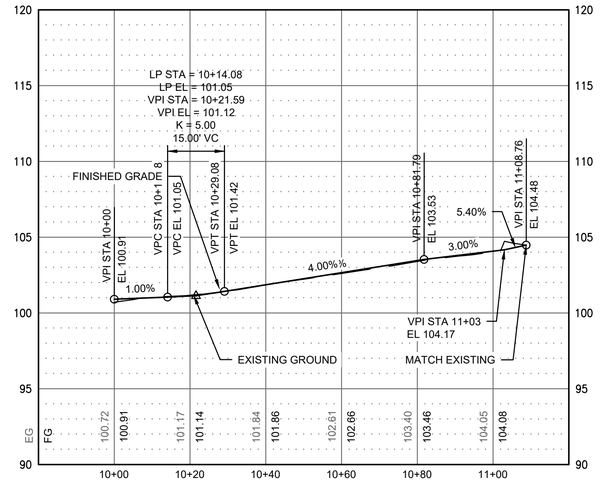
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE



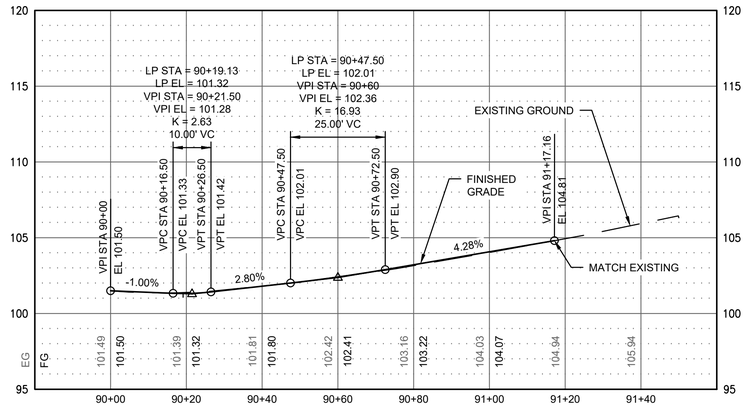
5TH ST (E) & NAVAL AVE PLAN VIEW



5TH ST - NE FLOWLINE PROFILE



5TH ST - SE FLOWLINE PROFILE



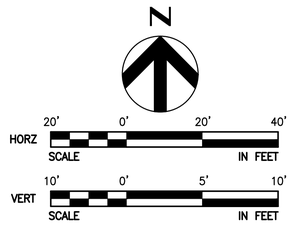
5TH ST - ROADWAY CENTERLINE PROFILE

"5th NE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C27	10+00.00	211979.2324,1192897.1917	44.21'	20.00'	10+39.80	211939.44,1192896.24	126°38'19"	S61°57'14"E	10+44.21	211962.4277,1192928.7355
C28	10+44.21	211962.4277,1192928.7355	9.64'	15.00'	10+49.20	211965.31,1192932.81	36°49'48"	N73°08'30"E	10+53.85	211965.1761,1192937.8052
L18	10+53.85	211965.1761,1192937.8052	54.71'					S88°26'35"E	11+08.56	211963.6896,1192992.4966

"5th SE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C24	10+00.00	211917.2500,1192895.7144	31.42'	20.00'	10+20.00	211937.24,1192896.19	90°00'00"	N46°21'55"E	10+31.42	211936.7678,1192916.1853
L16	10+31.42	211936.7678,1192916.1853	50.38'					S88°38'05"E	10+81.79	211935.5675,1192966.5476
C25	10+81.79	211935.5675,1192966.5476	10.61'	15.00'	10+87.33	211935.44,1192972.08	40°30'33"	S68°22'48"E	10+92.40	211931.7409,1192976.2028
C26	10+92.40	211931.7409,1192976.2028	10.61'	15.00'	10+97.93	211928.05,1192980.32	40°30'33"	S68°22'48"E	11+03.00	211927.9143,1192985.8579
L17	11+03.00	211927.9143,1192985.8579	5.76'					S88°38'05"E	11+08.76	211927.7771,1192991.6138



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN. PROJNUM

IG7
SHEET
59
OF
179

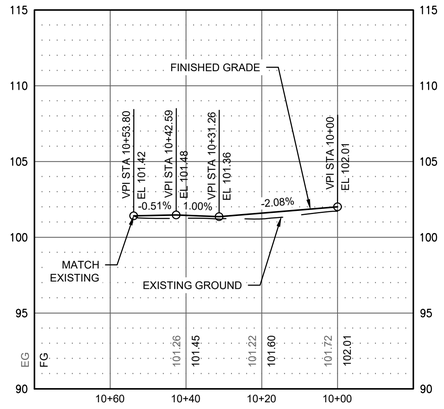
GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

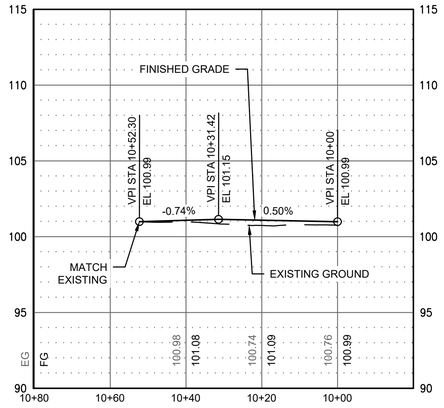
LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- —— · —— R/W LINE

"5th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C32	10+00.00	211996.4726,1192855.5907	31.26'	20.00'	10+19.84	211976.63,1192855.12	89°33'13"	S46°08'31"W	10+31.26	211976.9517,1192835.2756
C33	10+31.26	211976.9517,1192835.2756	11.33'	15.00'	10+37.21	211977.05,1192829.33	43°16'46"	N67°26'29"W	10+42.59	211981.1958,1192825.0590
C34	10+42.59	211981.1958,1192825.0590	11.21'	15.00'	10+48.47	211985.30,1192820.84	42°49'59"	N67°13'06"W	10+53.80	211985.4376,1192814.9592

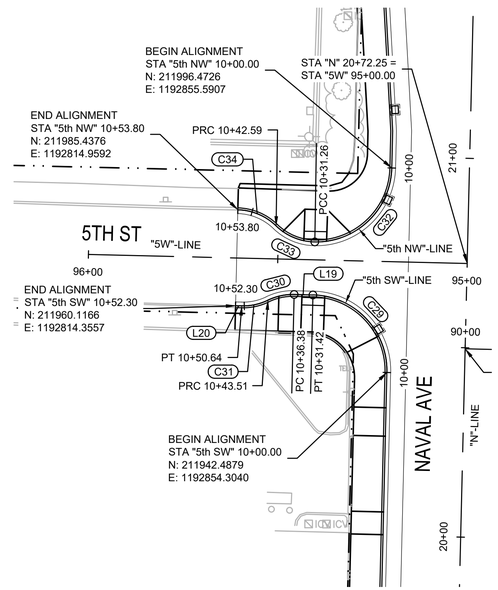


5TH ST - NW FLOWLINE PROFILE

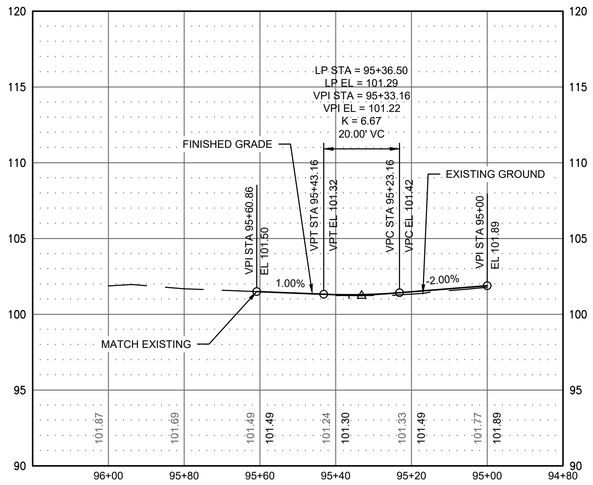


5TH ST - SW FLOWLINE PROFILE

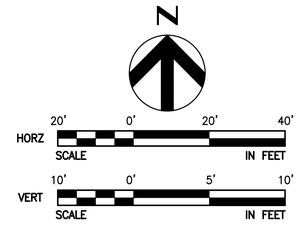
"5th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C29	10+00.00	211942.4879,1192854.3040	31.42'	20.00'	10+20.00	211962.48,1192854.78	90°00'00"	N43°38'05"W	10+31.42	211962.9588,1192834.7862
L19	10+31.42	211962.9588,1192834.7862	4.96'					N88°38'05"W	10+36.38	211963.0770,1192829.8249
C30	10+36.38	211963.0770,1192829.8249	7.13'	15.00'	10+40.01	211963.16,1192826.19	27°14'40"	S77°44'35"W	10+43.51	211961.5771,1192822.9204
C31	10+43.51	211961.5771,1192822.9204	7.13'	15.00'	10+47.15	211959.99,1192819.65	27°14'40"	S77°44'35"W	10+50.64	211960.0771,1192816.0159
L20	10+50.64	211960.0771,1192816.0159	1.66'					N88°38'05"W	10+52.30	211960.1166,1192814.3557



5TH ST (W) & NAVAL AVE PLAN VIEW



5TH ST (W) - ROADWAY CENTERLINE PROFILE



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO. _____

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

IG8 SHEET 60 OF 179

GENERAL NOTES

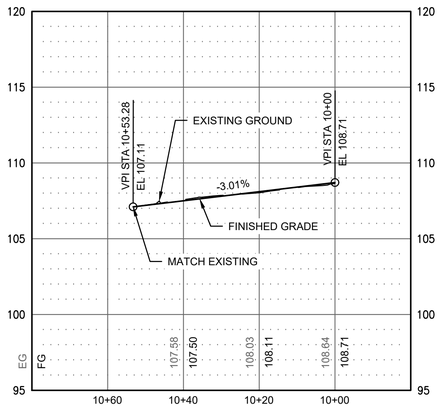
1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

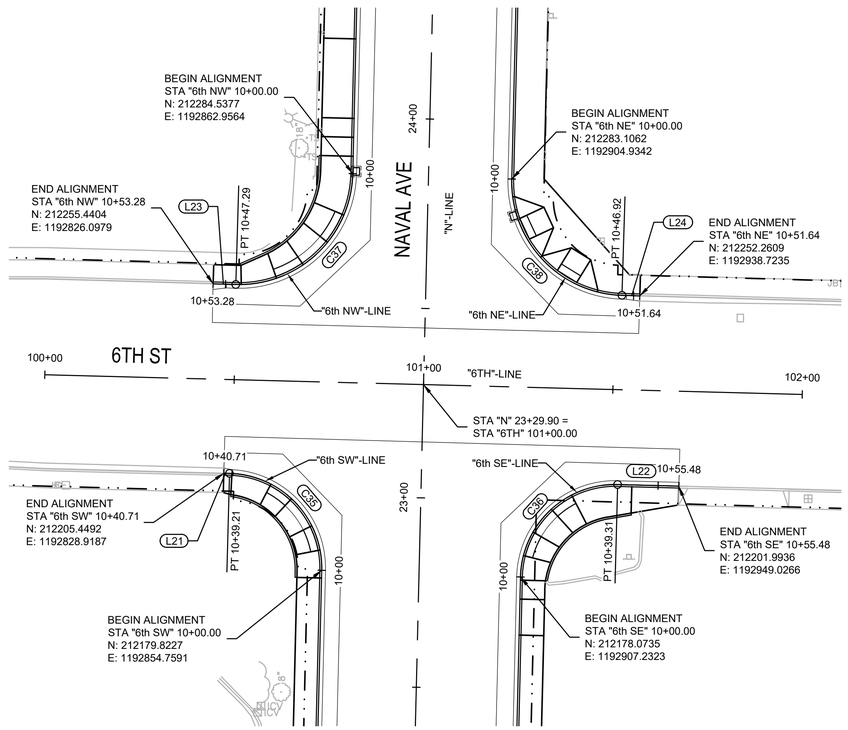
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- —— · —— R/W LINE

"6th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C37	10+00.00	212284.5377,1192862.9564	47.29'	30.00'	10+30.16	212254.38,1192862.24	90°18'32"	S46°31'11"W	10+47.29	212255.2653,1192832.0885
L23	10+47.29	212255.2653,1192832.0885	5.99'					N88°19'33"W	10+53.28	212255.4404,1192826.0979

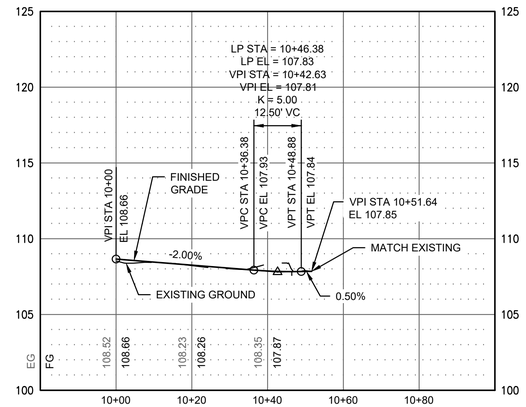
"6th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C38	10+00.00	212283.1062,1192904.9342	46.92'	30.00'	10+29.80	212253.32,1192904.22	89°36'36"	S43°26'23"E	10+46.92	212252.4054,1192934.0068
L24	10+46.92	212252.4054,1192934.0068	4.72'					S88°14'41"E	10+51.64	212252.2609,1192938.7235



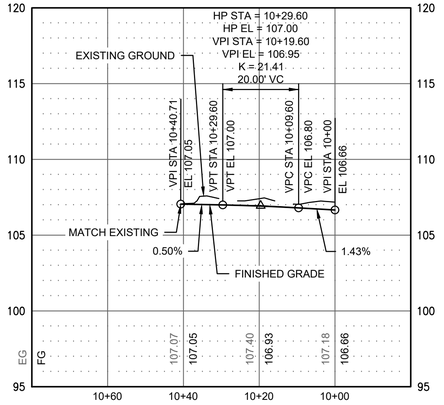
6TH ST - NW FLOWLINE PROFILE



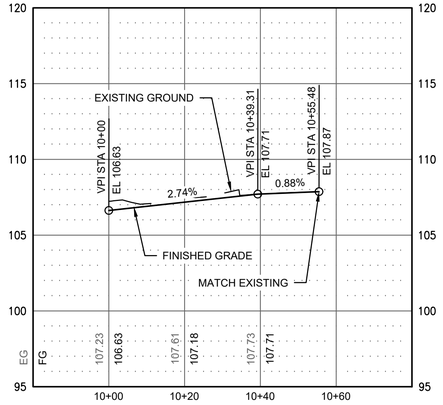
6TH ST & NAVAL AVE PLAN VIEW



6TH ST - NE FLOWLINE PROFILE



6TH ST - SW FLOWLINE PROFILE



6TH ST - SE FLOWLINE PROFILE

"6th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C35	10+00.00	212179.8227,1192854.7591	39.21'	25.00'	10+24.94	212204.76,1192855.35	89°51'41"	N43°33'55"W	10+39.21	212205.4097,1192830.4223
L21	10+39.21	212205.4097,1192830.4223	1.50'					N88°29'46"W	10+40.71	212205.4492,1192828.9187

"6th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C36	10+00.00	212178.0735,1192907.2323	39.31'	25.00'	10+25.04	212203.11,1192907.83	90°06'10"	N46°25'00"E	10+39.31	212202.4697,1192932.8656
L22	10+39.31	212202.4697,1192932.8656	16.17'					S88°31'55"E	10+55.48	212202.0555,1192949.0282

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE — HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

IG9 SHEET 61 OF 179

"7th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C45	10+00.00	212532.3954,1192868.8637	31.42'	20.00'	10+20.00	212512.40,1192868.39	90°00'00"	S46°21'55"W	10+31.42	212512.8776,1192848.3929
C46	10+31.42	212512.8776,1192848.3929	7.31'	15.00'	10+35.14	212512.97,1192844.67	27°54'56"	N74°40'37"W	10+38.72	212514.7898,1192841.4139
C47	10+38.72	212514.7898,1192841.4139	7.23'	15.00'	10+42.41	212516.59,1192838.20	27°36'09"	N74°31'13"W	10+45.95	212516.6999,1192834.5168
L27	10+45.95	212516.6999,1192834.5168	20.58'					N88°19'18"W	10+66.53	212517.3028,1192813.9425

"7th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C48	10+00.00	212530.9797,1192910.8419	31.42'	20.00'	10+20.00	212510.99,1192910.37	90°00'00"	S43°38'05"E	10+31.42	212510.5088,1192930.3597
C49	10+31.42	212510.5088,1192930.3597	7.25'	15.00'	10+35.11	212510.42,1192934.06	27°41'38"	N77°31'06"E	10+38.67	212512.0606,1192937.3699
C50	10+38.67	212512.0606,1192937.3699	7.31'	15.00'	10+42.40	212513.72,1192940.71	27°55'55"	N77°38'14"E	10+45.98	212513.6108,1192944.4424
L28	10+45.98	212513.6108,1192944.4424	19.31'					S88°23'49"E	10+65.29	212513.0705,1192963.7464

GENERAL NOTES

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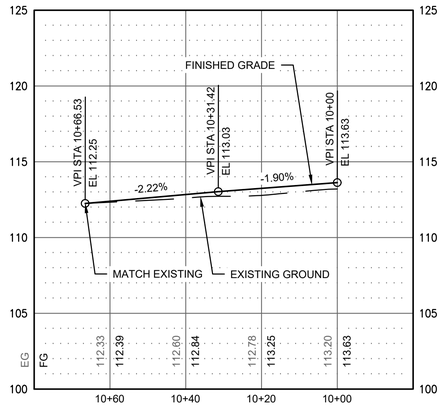
LEGEND

C# — CURVE SEGMENT

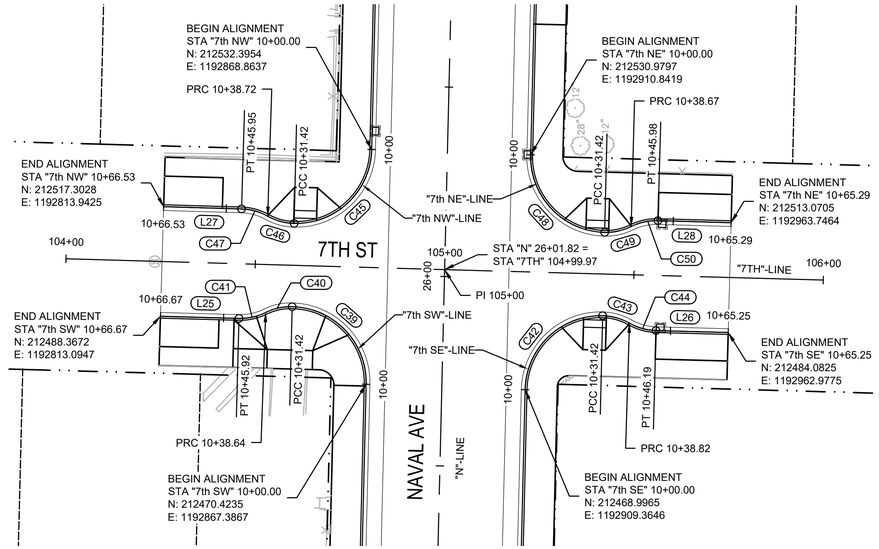
L# — LINE SEGMENT

PROPERTY LINE

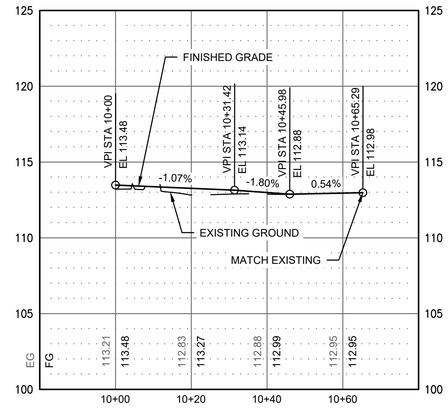
R/W LINE



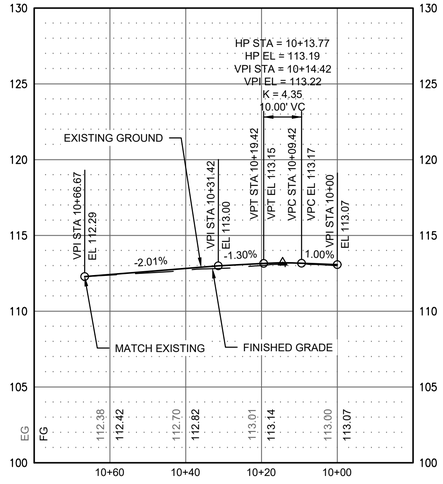
7TH ST - NW FLOWLINE PROFILE



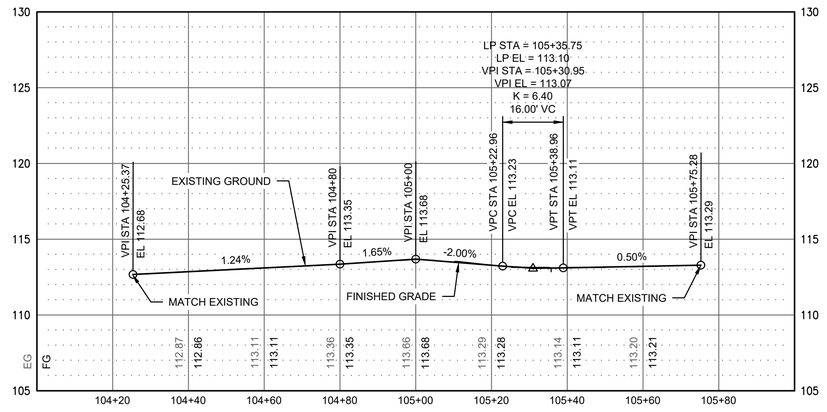
7TH ST & NAVAL AVE PLAN VIEW



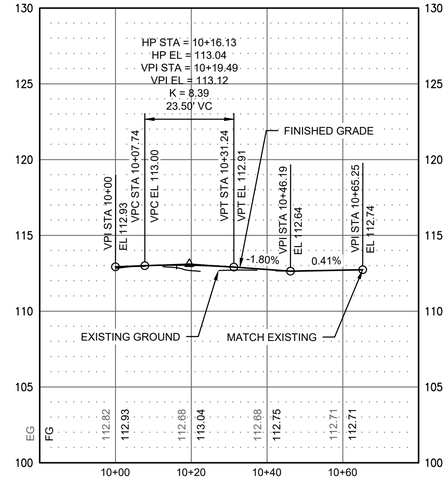
7TH ST - NE FLOWLINE PROFILE



7TH ST - SW FLOWLINE PROFILE



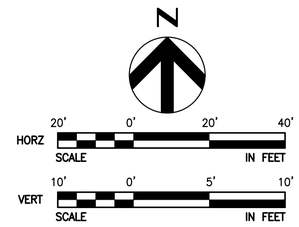
7TH ST - ROADWAY CENTERLINE PROFILE



7TH ST - SE FLOWLINE PROFILE

"7th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C39	10+00.00	212470.4235,1192867.3867	31.42'	20.00'	10+20.00	212490.42,1192867.86	90°00'00"	N43°38'05"W	10+31.42	212490.8943,1192847.8689
C40	10+31.42	212490.8943,1192847.8689	7.23'	15.00'	10+35.10	212490.98,1192844.18	27°36'37"	S77°33'37"W	10+38.64	212489.3523,1192840.8784
C41	10+38.64	212489.3523,1192840.8784	7.27'	15.00'	10+42.35	212487.71,1192837.55	27°46'46"	S77°38'41"W	10+45.92	212487.8113,1192833.8436
L25	10+45.92	212487.8113,1192833.8436	20.76'					N88°27'56"W	10+66.67	212488.3672,1192813.0947

"7th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C42	10+00.00	212468.9965,1192909.3646	31.42'	20.00'	10+20.00	212488.99,1192909.84	90°00'00"	N46°21'55"E	10+31.42	212488.5143,1192929.8355
C43	10+31.42	212488.5143,1192929.8355	7.41'	15.00'	10+35.20	212488.42,1192933.62	28°17'44"	S74°29'13"E	10+38.82	212486.5531,1192936.9011
C44	10+38.82	212486.5531,1192936.9011	7.36'	15.00'	10+42.58	212484.69,1192940.17	28°07'35"	S74°24'08"E	10+46.19	212484.5930,1192943.9224
L26	10+46.19	212484.5930,1192943.9224	19.06'					S88°27'56"E	10+65.25	212484.0825,1192962.9775



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

IG10
SHEET
62
OF
179

"8th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C55	10+00.00	212791.2472,1192875.0331	39.47'	20.00'	10+30.25	212761.00,1192874.31	113°03'56"	S57°53'53"W	10+39.47	212773.5145,1192846.7669
C56	10+39.47	212773.5145,1192846.7669	39.95'	100.00'	10+59.71	212781.89,1192828.33	22°53'27"	N77°00'52"W	10+79.42	212782.4323,1192808.0952
L30	10+79.42	212782.4323,1192808.0952	15.32'					N88°27'36"W	10+94.74	212782.8439,1192792.7832

"8th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C57	10+00.00	212798.0427,1192917.2070	30.62'	20.00'	10+19.22	212778.83,1192916.75	87°43'40"	S42°29'55"E	10+30.62	212777.6065,1192935.9324
C58	10+30.62	212777.6065,1192935.9324	7.87'	15.00'	10+34.65	212777.35,1192939.95	30°02'41"	N78°36'55"E	10+38.49	212779.1414,1192943.5552
C59	10+38.49	212779.1414,1192943.5552	7.32'	15.00'	10+42.22	212780.80,1192946.90	27°57'10"	N77°34'10"E	10+45.81	212780.7011,1192950.6311
L31	10+45.81	212780.7011,1192950.6311	19.71'					S88°27'15"E	10+65.52	212780.1693,1192970.3365

GENERAL NOTES

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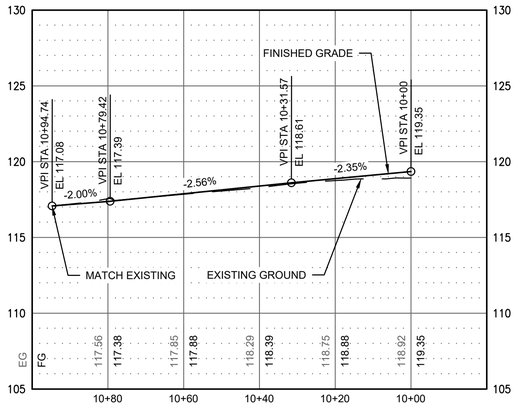
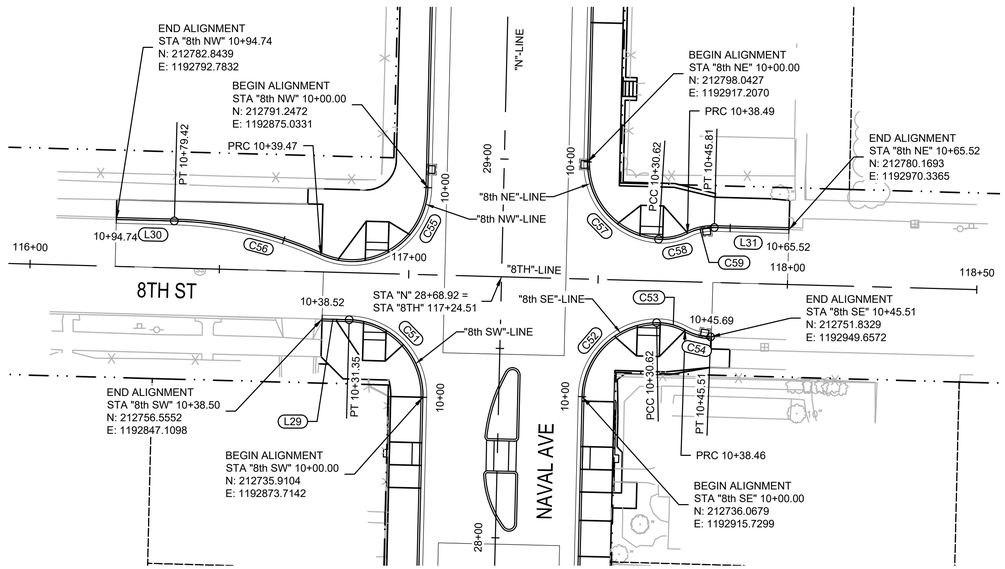
LEGEND

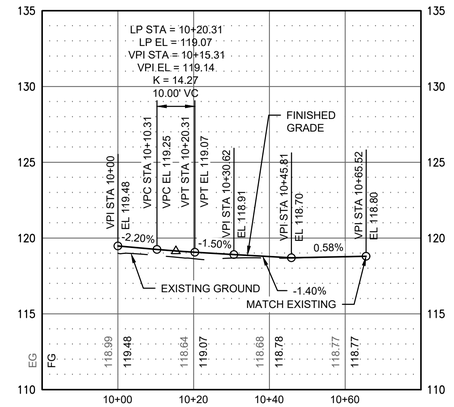
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE



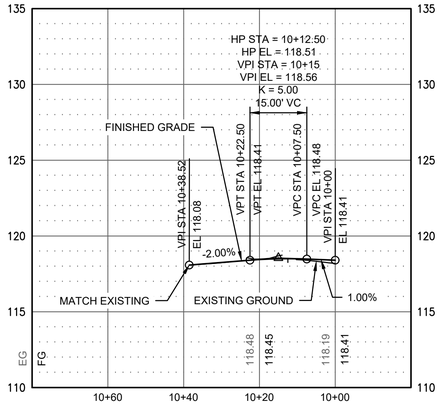
8TH ST - NW FLOWLINE PROFILE



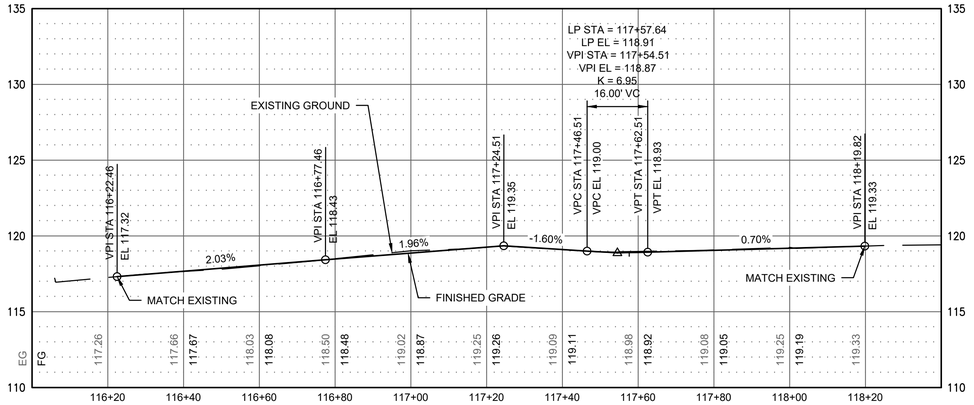
8TH ST & NAVAL AVE PLAN VIEW



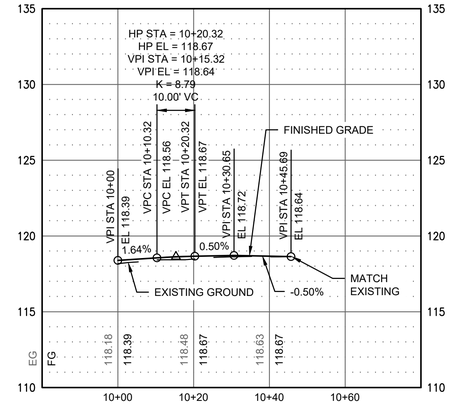
8TH ST - NE FLOWLINE PROFILE



8TH ST - SW FLOWLINE PROFILE



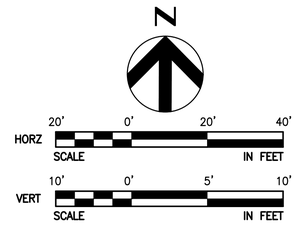
8TH ST - ROADWAY CENTERLINE PROFILE



8TH ST - SE FLOWLINE PROFILE

"8th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C51	10+00.00	212735.9104,1192873.7142	31.35'	20.00'	10+19.94	212755.84,1192874.19	89°49'10"	N43°32'40"W	10+31.35	212756.3797,1192854.2594
L29	10+31.35	212756.3797,1192854.2594	7.17'					N88°27'15"W	10+38.52	212756.5731,1192847.0942

"8th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C52	10+00.00	212736.0679,1192915.7299	30.62'	20.00'	10+19.22	212755.28,1192916.19	87°43'27"	N45°13'39"E	10+30.62	212755.5889,1192935.4064
C53	10+30.62	212755.5889,1192935.4064	7.84'	15.00'	10+34.63	212755.65,1192939.42	29°56'07"	S75°56'35"E	10+38.46	212753.7069,1192942.9226
C54	10+38.46	212753.7069,1192942.9226	7.06'	15.00'	10+42.05	212751.96,1192946.07	26°56'58"	S74°27'00"E	10+45.51	212751.8329,1192949.6572



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

P.N. PROJNUM

IG11
SHEET
63
OF
179

GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
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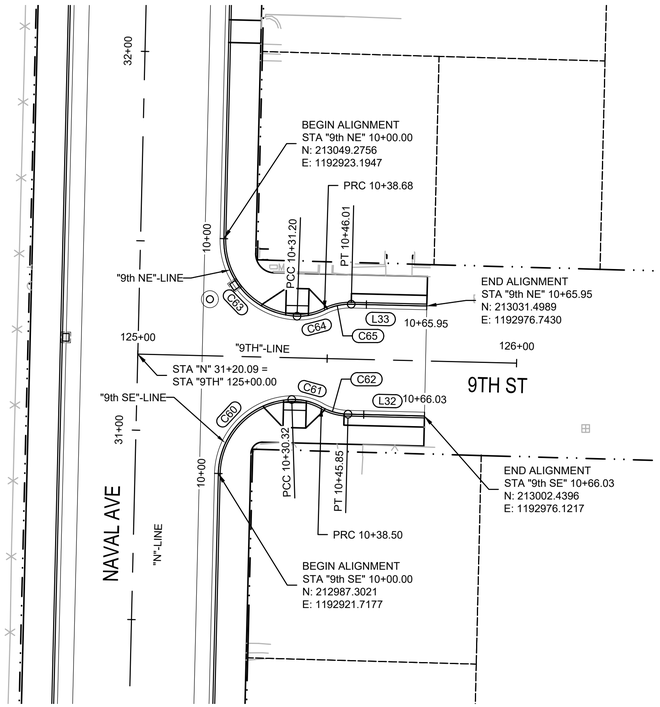
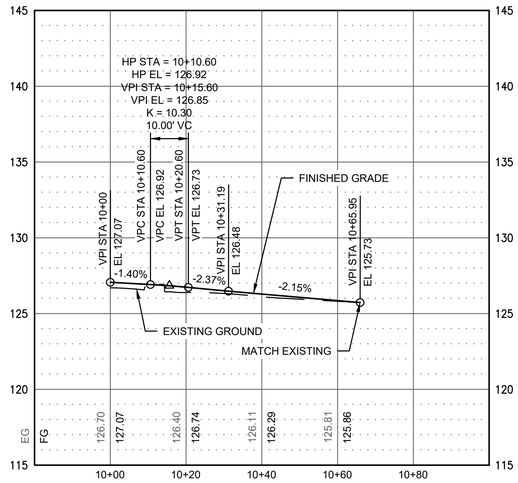
LEGEND

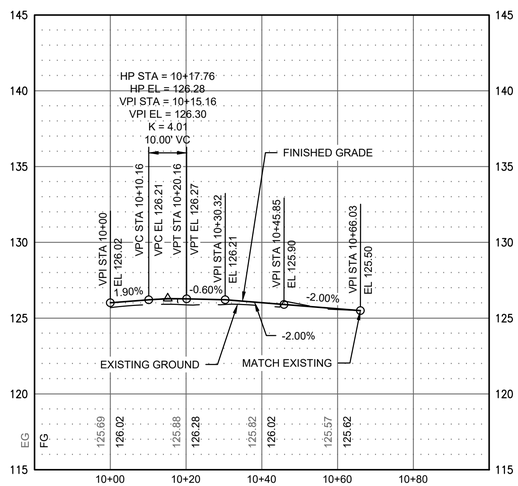
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- —— · —— R/W LINE



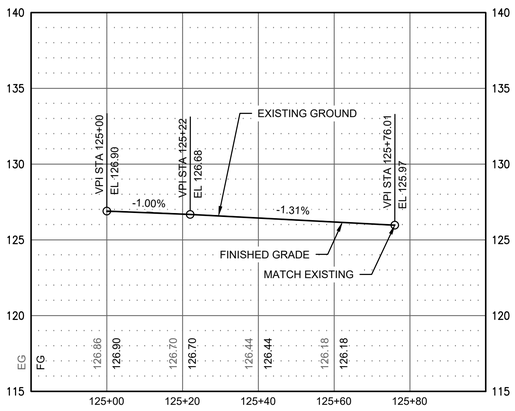
9TH ST & NAVAL AVE PLAN VIEW



9TH ST - NE FLOWLINE PROFILE



9TH ST - SE FLOWLINE PROFILE



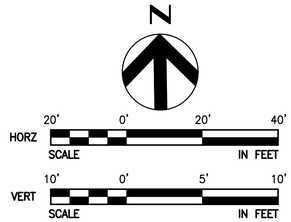
9TH ST - ROADWAY CENTERLINE PROFILE

"9th NE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C63	10+00.00	213049.2756,1192923.1947	31.20'	20.00'	10+19.79	213029.49,1192922.72	89°23'12"	S43°19'41"E	10+31.20	213028.8110,1192942.4985
C64	10+31.20	213028.8110,1192942.4985	7.48'	15.00'	10+35.02	213028.68,1192946.32	28°34'57"	N77°41'15"E	10+38.68	213030.3902,1192949.7337
C65	10+38.68	213030.3902,1192949.7337	7.32'	15.00'	10+42.42	213032.06,1192953.07	27°58'09"	N77°22'51"E	10+46.01	213031.9740,1192956.8084
L33	10+46.01	213031.9740,1192956.8084	19.94'					S88°38'05"E	10+65.95	213031.4989,1192976.7430

"9th SE" - LINE ALIGNMENT TABLE

NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C60	10+00.00	212987.3021,1192921.7177	30.32'	20.00'	10+18.94	213006.23,1192922.17	86°52'16"	N44°48'03"E	10+30.32	213006.8161,1192941.0965
C61	10+30.32	213006.8161,1192941.0965	8.17'	15.00'	10+34.51	213006.95,1192945.29	31°13'17"	S76°09'10"E	10+38.50	213004.8840,1192948.9349
C62	10+38.50	213004.8840,1192948.9349	7.35'	15.00'	10+42.25	213003.04,1192952.20	28°05'33"	S74°35'19"E	10+45.85	213002.9490,1192955.9542
L32	10+45.85	213002.9490,1192955.9542	20.18'					S88°38'05"E	10+66.03	213002.4683,1192976.1236



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

P/N: PROJNUM

IG12
SHEET
64
OF
179

"10th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C70	10+00.00	213310.0625,1192887.3656	46.51'	20.00'	10+46.26	213263.81,1192886.33	133°14'16"	S67°54'14"W	10+46.51	213296.2515,1192853.3468
C71	10+46.51	213296.2515,1192853.3468	11.21'	15.00'	10+52.39	213300.37,1192849.15	42°48'32"	N66°52'54"W	10+57.72	213300.5502,1192843.2776
L36	10+57.72	213300.5502,1192843.2776	9.88'					N88°17'09"W	10+67.60	213300.8458,1192833.3996

"10th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C72	10+00.00	213316.6997,1192929.5250	43.65'	20.00'	10+38.47	213278.24,1192928.66	125°03'29"	S61°14'40"E	10+43.65	213299.6264,1192960.6382
C73	10+43.65	213299.6264,1192960.6382	9.18'	15.00'	10+48.39	213302.26,1192964.58	35°03'27"	N73°45'19"E	10+52.83	213302.1540,1192969.3130
L37	10+52.83	213302.1540,1192969.3130	13.08'					S88°42'58"E	10+65.92	213301.8609,1192982.3936

GENERAL NOTES

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LEGEND

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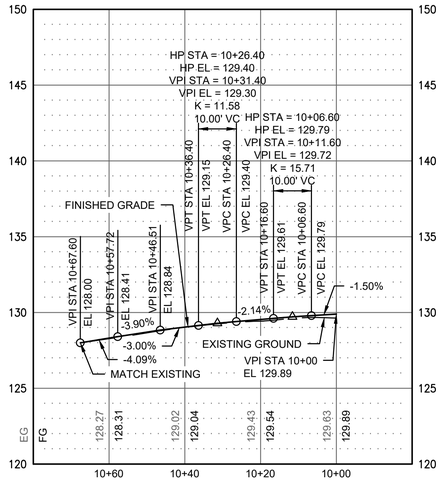
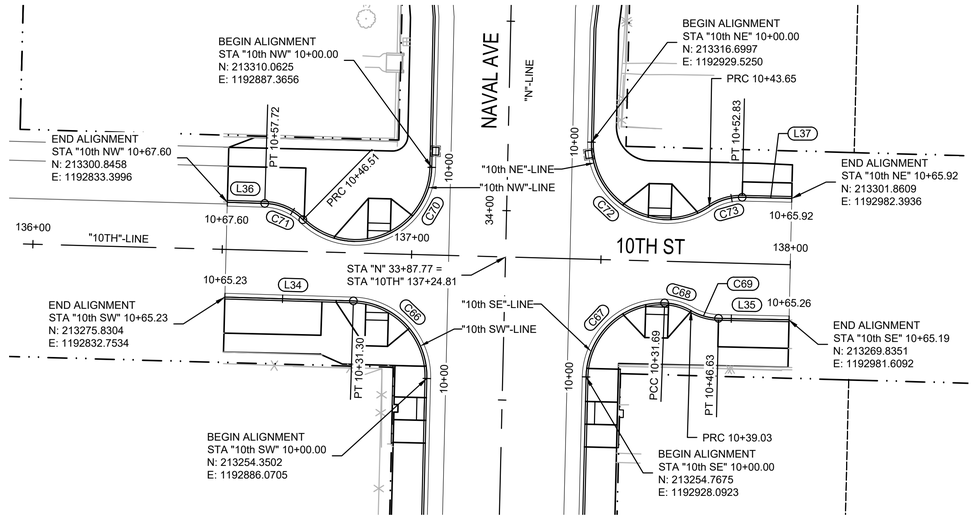
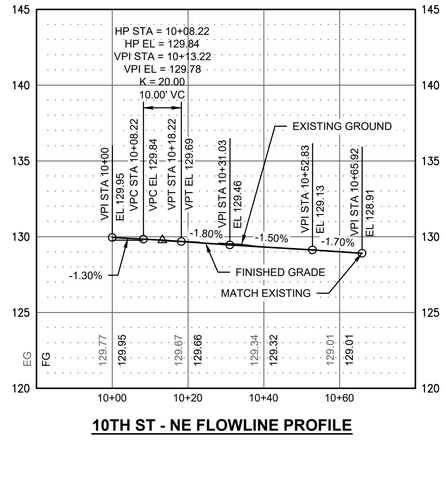


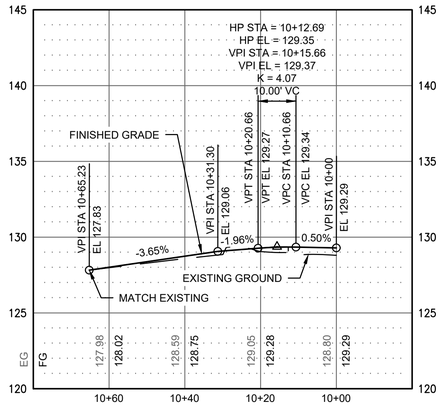
10TH ST - NW FLOWLINE PROFILE



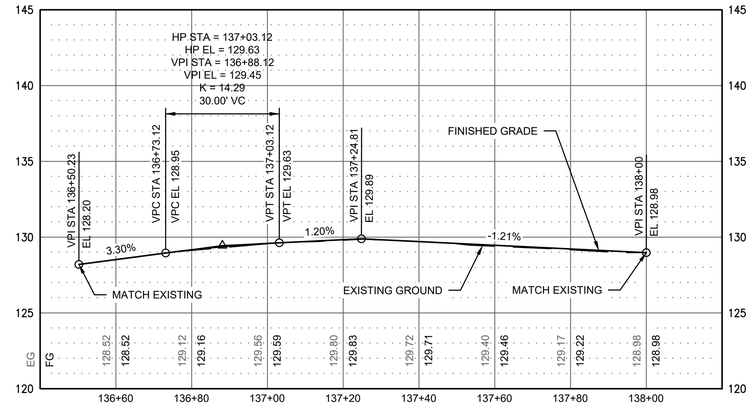
10TH ST & NAVAL AVE PLAN VIEW



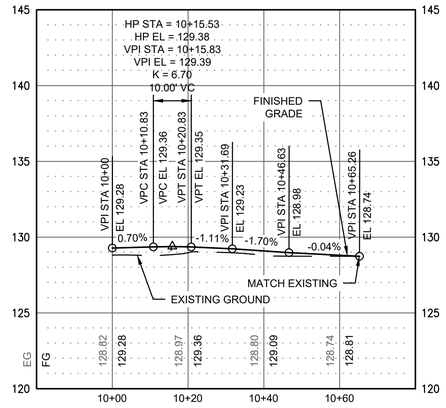
10TH ST - NE FLOWLINE PROFILE



10TH ST - SW FLOWLINE PROFILE



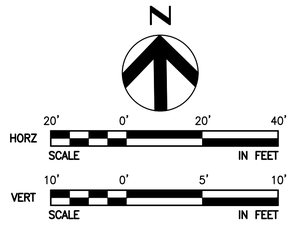
10TH ST - ROADWAY CENTERLINE PROFILE



10TH ST - SE FLOWLINE PROFILE

"10th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C66	10+00.00	213254.3502,1192886.0705	31.30'	20.00'	10+19.88	213274.22,1192886.54	89°39'20"	N43°27'45"W	10+31.30	213274.8179,1192866.6729
L34	10+31.30	213274.8179,1192866.6729	33.93'					N88°17'25"W	10+65.23	213275.8304,1192832.7534

"10th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C67	10+00.00	213254.7675,1192928.0923	31.69'	20.00'	10+20.27	213275.03,1192928.58	90°46'34"	N46°45'12"E	10+31.69	213274.2769,1192948.8340
C68	10+31.69	213274.2769,1192948.8340	7.35'	15.00'	10+35.44	213274.14,1192952.58	28°04'00"	S73°49'31"E	10+39.03	213272.2505,1192955.8206
C69	10+39.03	213272.2505,1192955.8206	7.60'	15.00'	10+42.92	213270.30,1192959.18	29°01'47"	S74°18'24"E	10+46.63	213270.2167,1192963.0592
L35	10+46.63	213270.2167,1192963.0592	18.62'					S88°49'18"E	10+65.26	213269.8338,1192981.6757



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

P.N. PROJNUM

IG13
SHEET
65
OF
179

"11th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C76	10+00.00	213607.5247,1192898.5375	39.47'	25.00'	10+25.20	213582.33,1192897.97	90°27'27"	S46°30'48"W	10+39.47	213583.0967,1192872.7838
L40	10+39.47	213583.0967,1192872.7838	17.62'					N88°15'28"W	10+57.09	213583.6325,1192855.1682

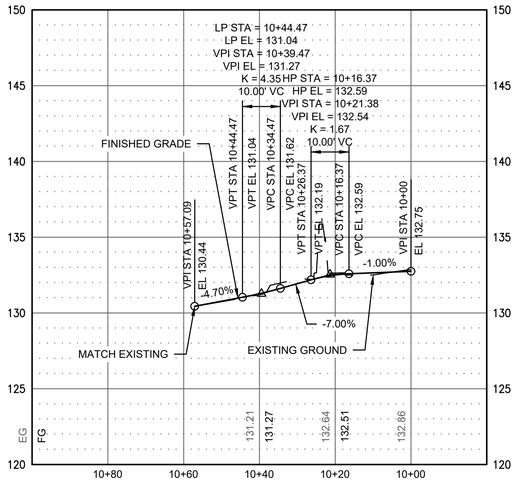
"11th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C77	10+00.00	213607.4552,1192929.5438	39.15'	25.00'	10+24.88	213582.58,1192928.99	89°43'07"	S43°34'29"E	10+39.15	213581.9041,1192953.8542
L41	10+39.15	213581.9041,1192953.8542	46.54'					S88°26'02"E	10+85.68	213580.6322,1193000.3746

GENERAL NOTES

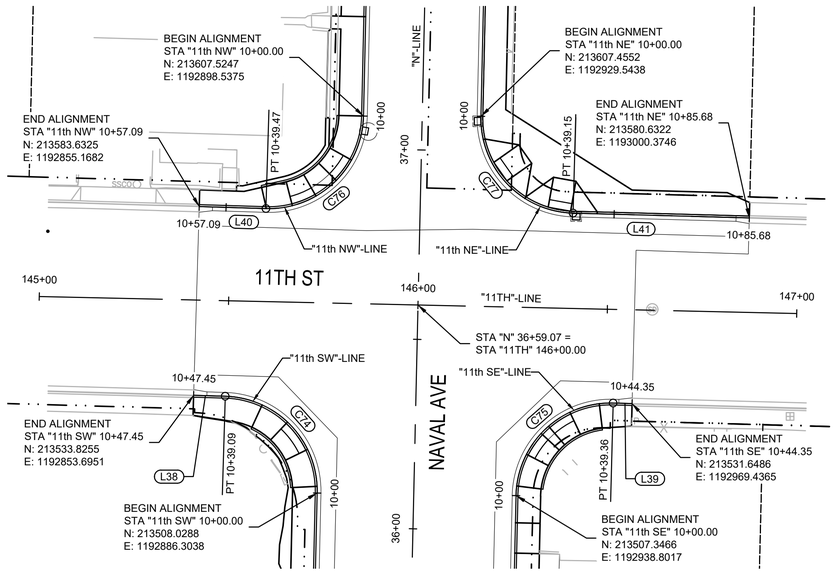
1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

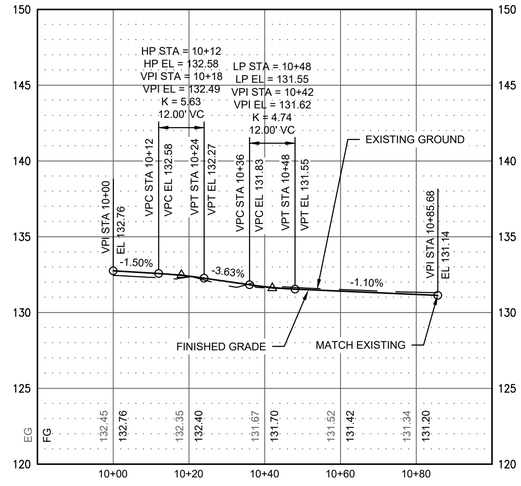
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE



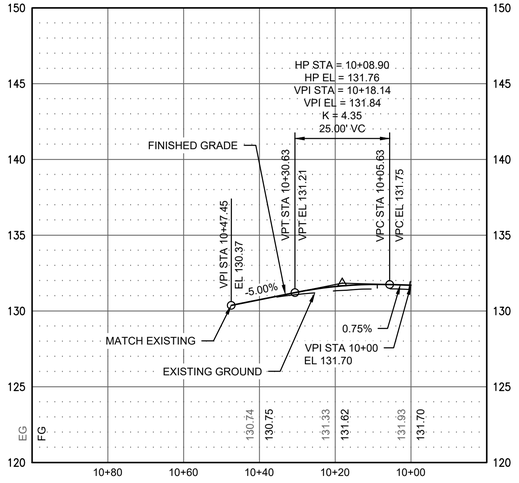
11TH ST - NW FLOWLINE PROFILE



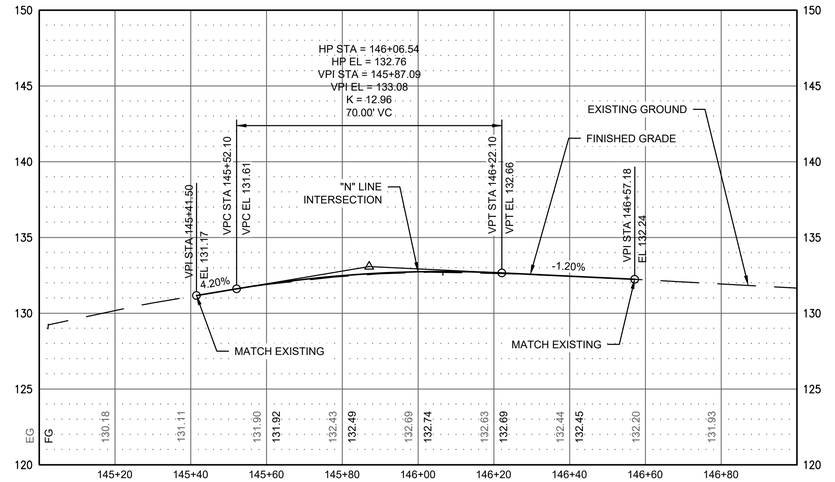
11TH ST & NAVAL AVE PLAN VIEW



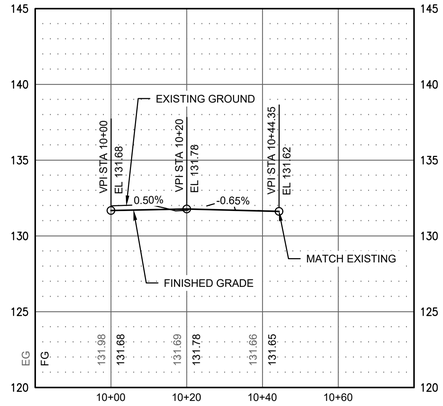
11TH ST - NE FLOWLINE PROFILE



11TH ST - SW FLOWLINE PROFILE



11TH ST - ROADWAY CENTERLINE PROFILE



11TH ST - SE FLOWLINE PROFILE

"11th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C74	10+00.00	213508.0288,1192886.3038	39.09'	25.00'	10+24.82	213532.84,1192886.86	89°35'26"	N43°30'38"W	10+39.09	213533.5784,1192862.0491
L38	10+39.09	213533.5784,1192862.0491	8.36'					N88°18'21"W	10+47.45	213533.8255,1192853.6951

"11th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C75	10+00.00	213507.3466,1192938.8017	39.36'	25.00'	10+25.09	213532.43,1192939.36	90°11'43"	N46°22'56"E	10+39.36	213531.7777,1192964.4411
L39	10+39.36	213531.7777,1192964.4411	5.00'					S88°31'12"E	10+44.35	213531.6486,1192969.4365

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

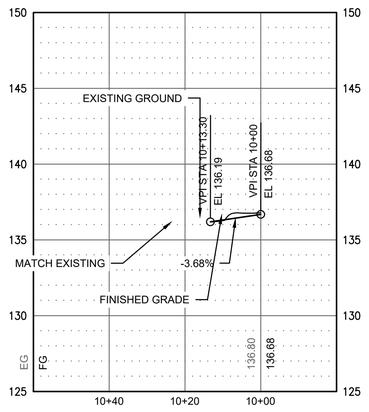
IG14
SHEET
66
OF
179

"12th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C81	10+00.00	213973.0330,1192906.7342	12.57'	8.00'	10+08.00	213965.04,1192906.55	89°59'57"	S46°17'03"W	10+12.57	213965.2144,1192898.5570
L45	10+12.57	213965.2144,1192898.5570	0.73'					N88°42'58"W	10+13.30	213965.2308,1192897.8259

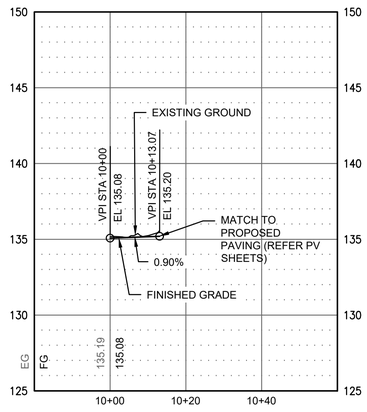
"12th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C80	10+00.00	213939.0415,1192905.9719	12.57'	8.00'	10+08.00	213947.04,1192906.15	90°00'03"	N43°42'57"W	10+12.57	213947.2189,1192898.1532
L44	10+12.57	213947.2189,1192898.1532	0.73'					N88°42'58"W	10+13.30	213947.2353,1192897.4225

"Webster NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C79	10+00.00	213895.5831,1192936.0052	12.57'	8.00'	10+08.00	213887.58,1192935.83	90°00'03"	S43°42'57"E	10+12.57	213887.4057,1192943.8239
L43	10+12.57	213887.4057,1192943.8239	0.50'					S88°42'58"E	10+13.07	213887.3945,1192944.3235

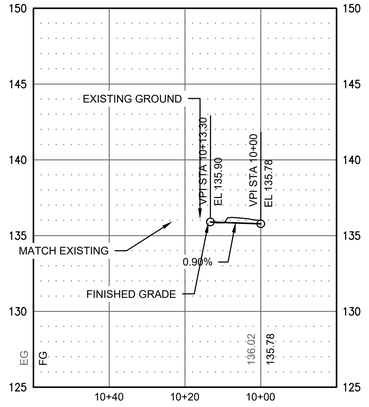
"Webster SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C78	10+00.00	213858.4984,1192935.1735	12.57'	8.00'	10+08.00	213866.50,1192935.35	89°59'57"	N46°17'03"E	10+12.57	213866.3170,1192943.3508
L42	10+12.57	213866.3170,1192943.3508	0.49'					S88°42'58"E	10+13.06	213866.3061,1192943.8401



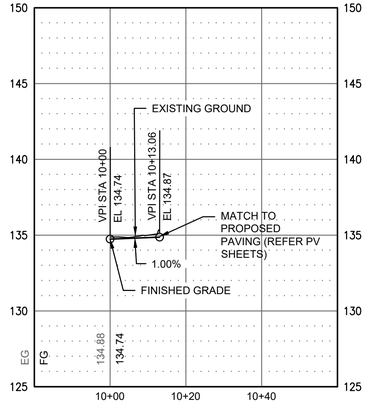
12TH ST - NW FLOWLINE PROFILE



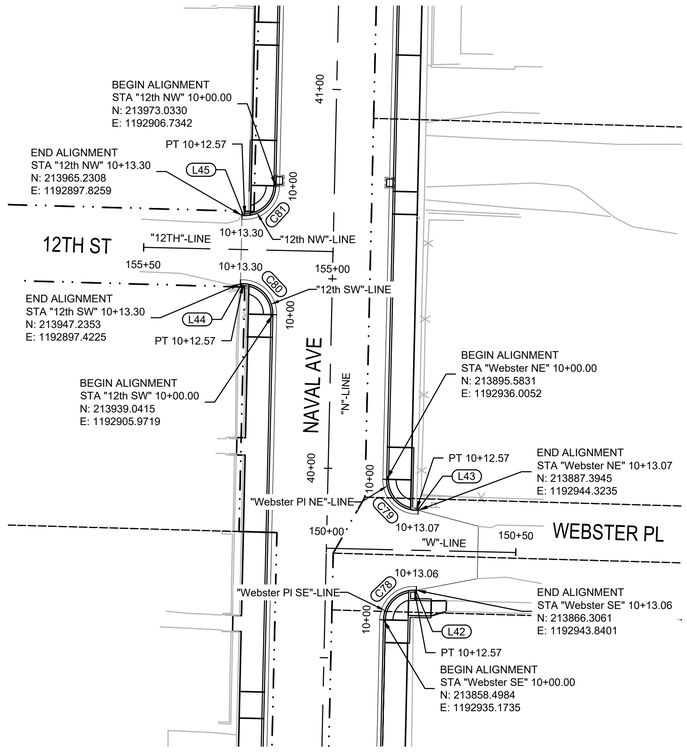
WEBSTER PL - NE FLOWLINE PROFILE



12TH ST - SW FLOWLINE PROFILE

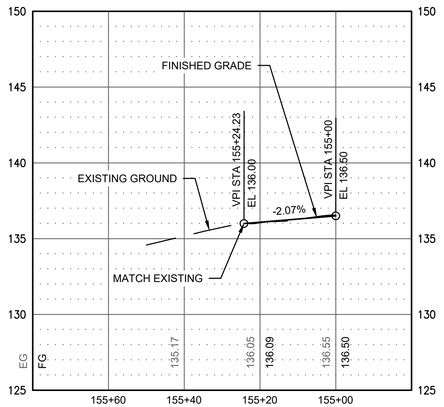


WEBSTER PL - SE FLOWLINE PROFILE

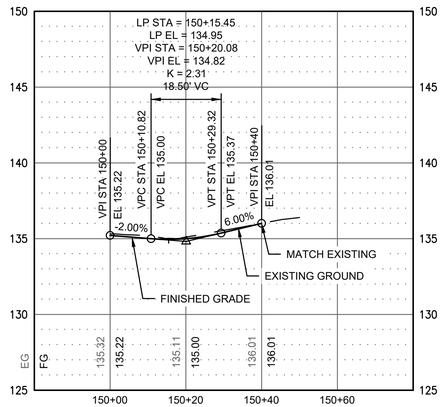


12TH ST & NAVAL AVE PLAN VIEW

WEBSTER PL & NAVAL AVE PLAN VIEW



13TH ST - ROADWAY CENTERLINE PROFILE



WEBSTER PL - ROADWAY CENTERLINE PROFILE

GENERAL NOTES

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2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- — · — R/W LINE

N

HORZ SCALE: 20' 0' 20' 40' — IN FEET

VERT SCALE: 10' 0' 5' 10' — IN FEET

CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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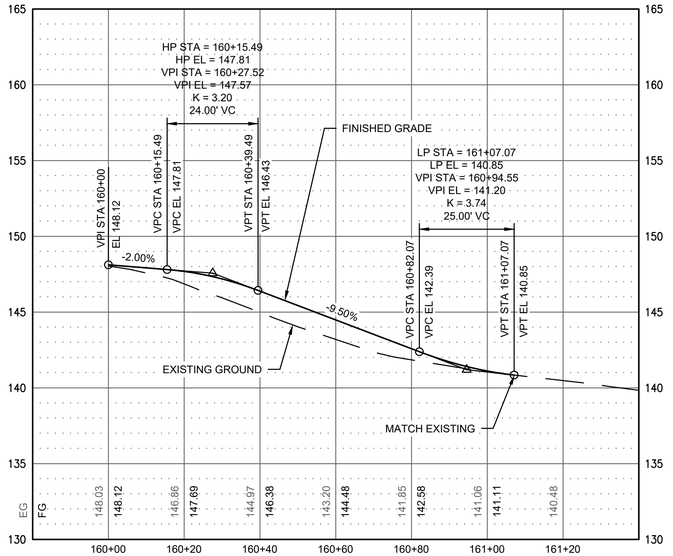
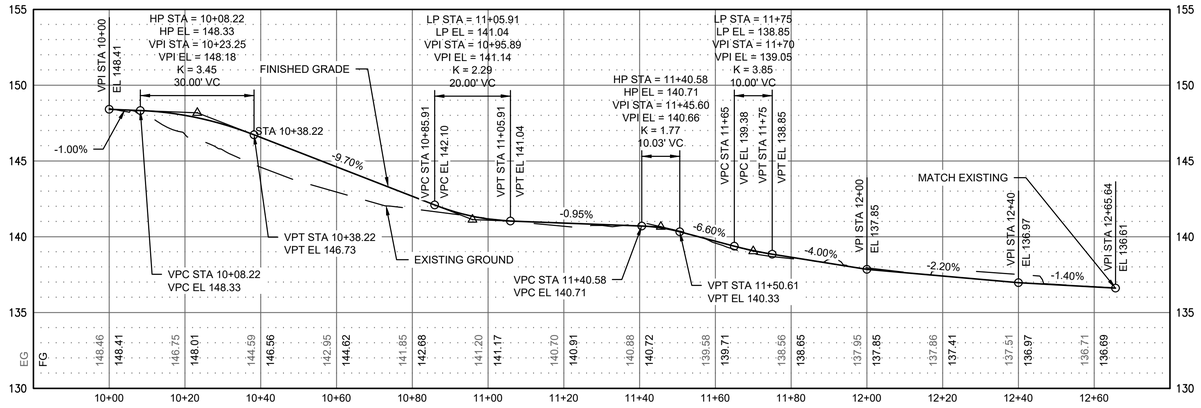
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN. PROJNUM

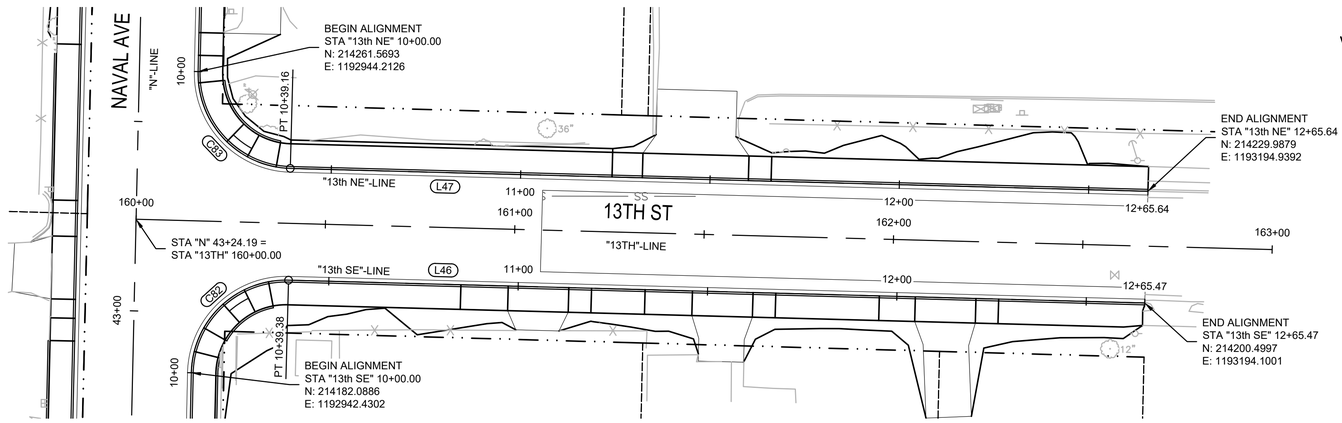
IG15
SHEET
67
OF
179



13TH ST - ROADWAY CENTERLINE PROFILE



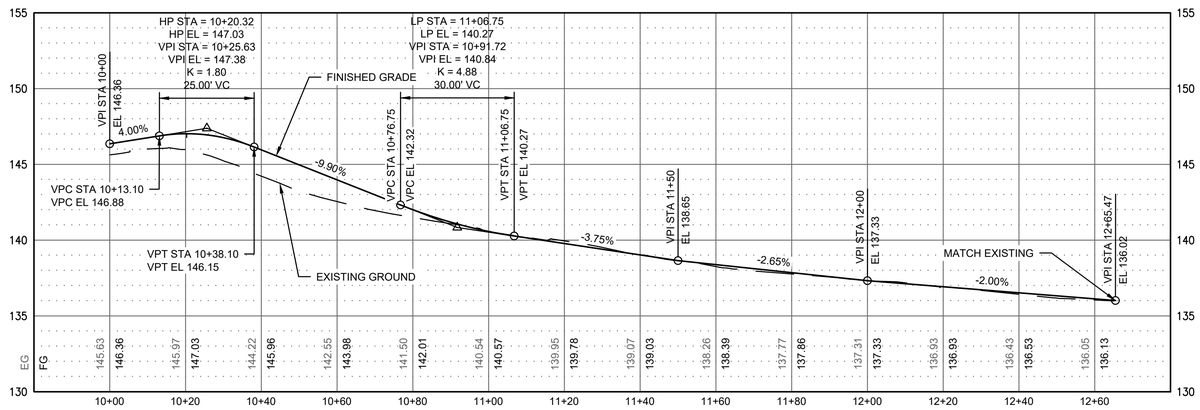
13TH ST - NE FLOWLINE PROFILE



13TH ST & NAVAL AVE PLAN VIEW

"13th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C83	10+00.00	214261.5693,1192944.2126	39.16'	25.00'	10+24.90	214236.68,1192943.65	89°45'33"	S43°35'41"E	10+39.16	214236.0177,1192968.5407
L47	10+39.16	214236.0177,1192968.5407	226.48'					S88°28'28"E	12+65.64	214229.9879,1193194.9392

"13th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C82	10+00.00	214182.0886,1192942.4302	39.38'	25.00'	10+25.11	214207.19,1192942.99	90°14'27"	N46°24'19"E	10+39.38	214206.5192,1192968.0895
L46	10+39.38	214206.5192,1192968.0895	226.09'					S88°28'28"E	12+65.47	214200.4997,1193194.1001



13TH ST - SE FLOWLINE PROFILE

GENERAL NOTES

1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- PROPERTY LINE
- R/W LINE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS

NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

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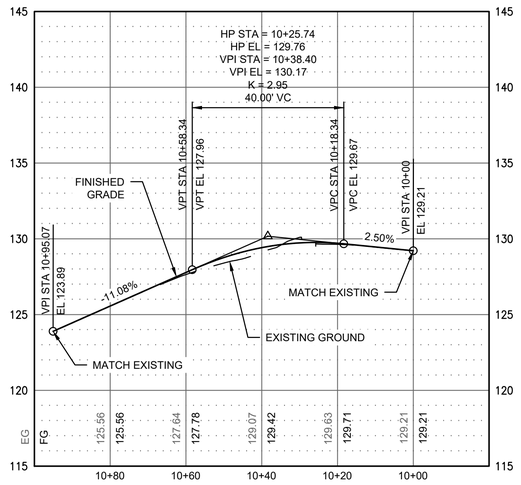
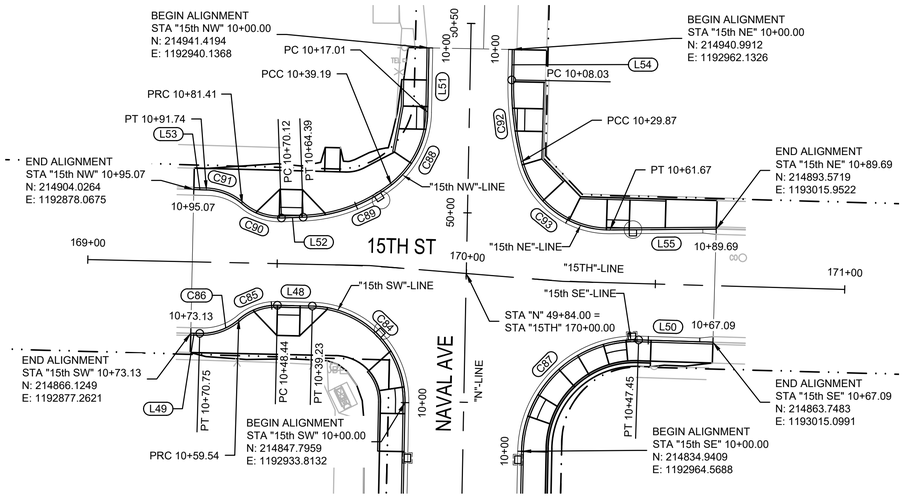
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

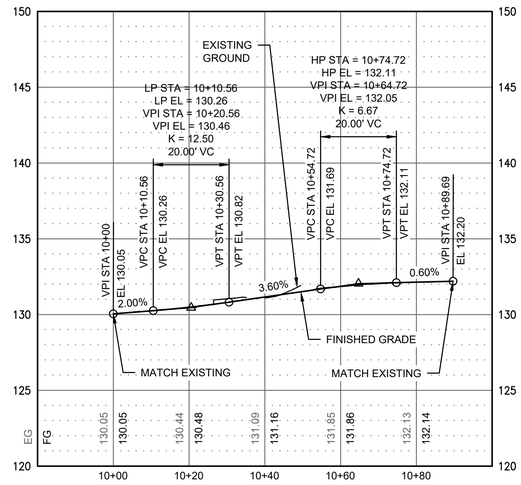
IG16
SHEET
68
OF
179



15TH ST - NW FLOWLINE PROFILE



15TH ST & NAVAL AVE PLAN VIEW



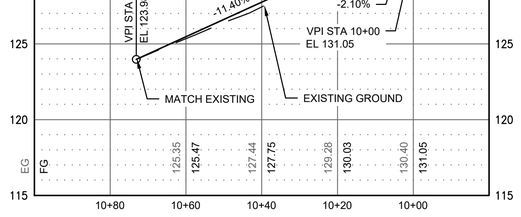
15TH ST - NE FLOWLINE PROFILE

GENERAL NOTES

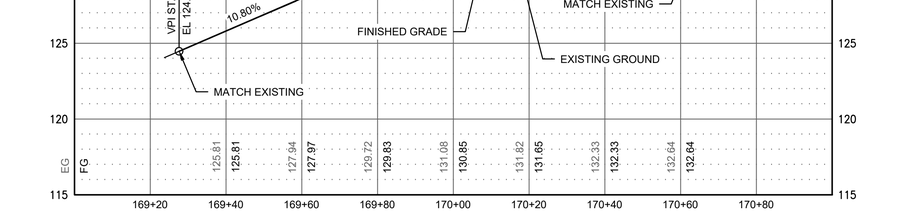
1. SEE ALIGNMENT PLANS FOR INFORMATION ON "N"–LINE AND SIDE STREET ALIGNMENTS.
2. ALL ALIGNMENT TABLE INFORMATION ON IG SHEETS IS BASED ON THE PROPOSED FLOWLINE.

LEGEND

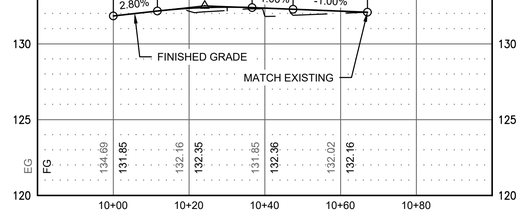
- C# — CURVE SEGMENT
- L# — LINE SEGMENT
- ———— PROPERTY LINE
- — · — R/W LINE



15TH ST - SW FLOWLINE PROFILE



15TH ST - ROADWAY CENTERLINE PROFILE



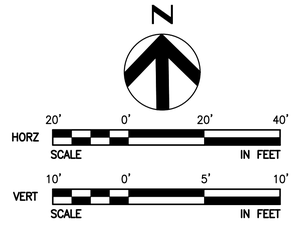
15TH ST - SE FLOWLINE PROFILE

"15th NW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
L51	10+00.00	214941.4194,1192940.1368	17.01'					S1°06'55"W	10+17.01	214924.4091,1192939.8056
C88	10+17.01	214924.4091,1192939.8056	22.18'	25.00'	10+28.89	214912.53,1192939.57	50°49'21"	S26°31'36"W	10+39.19	214905.2122,1192930.2233
C89	10+39.19	214905.2122,1192930.2233	25.20'	40.00'	10+52.22	214897.18,1192919.96	36°05'50"	S69°59'11"W	10+64.39	214896.7294,1192906.9341
L52	10+64.39	214896.7294,1192906.9341	5.73'					S88°02'06"W	10+70.12	214896.5328,1192901.2027
C90	10+70.12	214896.5328,1192901.2027	11.29'	15.00'	10+76.05	214896.33,1192895.28	43°06'59"	N70°24'24"W	10+81.41	214900.2294,1192890.8176
C91	10+81.41	214900.2294,1192890.8176	10.33'	15.00'	10+86.79	214903.77,1192886.77	39°27'31"	N68°34'40"W	10+91.74	214903.9282,1192881.3900
L53	10+91.74	214903.9282,1192881.3900	3.32'					N88°18'26"W	10+95.07	214904.0264,1192878.0675

"15th NE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
L54	10+00.00	214940.9912,1192962.1326	8.03'					S1°06'55"W	10+08.03	214932.9600,1192961.9763
C92	10+08.03	214932.9600,1192961.9763	21.84'	80.00'	10+19.02	214921.97,1192961.76	15°38'31"	S6°42'20"E	10+29.87	214911.3363,1192964.5186
C93	10+29.87	214911.3363,1192964.5186	31.80'	24.00'	10+48.59	214893.21,1192969.21	75°54'46"	S52°28'59"E	10+61.67	214893.3569,1192987.9355
L55	10+61.67	214893.3569,1192987.9355	28.02'					N89°33'38"E	10+89.69	214893.5719,1193015.9522

"15th SE" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C87	10+00.00	214834.9409,1192964.5688	47.45'	30.00'	10+30.33	214865.26,1192965.16	90°37'14"	N46°25'32"E	10+47.45	214864.3431,1192995.4718
L50	10+47.45	214864.3431,1192995.4718	19.64'					S88°15'51"E	10+67.09	214863.7483,1193015.1001

"15th SW" - LINE ALIGNMENT TABLE										
NO.	START STATION	START POINT (N,E)	LENGTH	RADIUS	PI STATION	PI COORDINATE (N,E)	DELTA	BEARING	END STATION	END POINT (N,E)
C84	10+00.00	214847.7959,1192933.8132	39.23'	25.00'	10+24.96	214872.75,1192934.30	89°53'53"	N43°50'01"W	10+39.23	214873.2769,1192909.3490
L48	10+39.23	214873.2769,1192909.3490	9.22'					N88°46'58"W	10+48.44	214873.4727,1192900.1337
C85	10+48.44	214873.4727,1192900.1337	11.10'	15.00'	10+54.26	214873.60,1192894.32	42°24'24"	S70°00'50"W	10+59.54	214869.7642,1192889.9368
C86	10+59.54	214869.7642,1192889.9368	11.20'	15.00'	10+65.42	214865.89,1192885.51	42°47'56"	S70°12'36"W	10+70.75	214866.0582,1192879.6373
L49	10+70.75	214866.0582,1192879.6373	2.38'					N88°23'26"W	10+73.13	214866.1249,1192877.2621



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

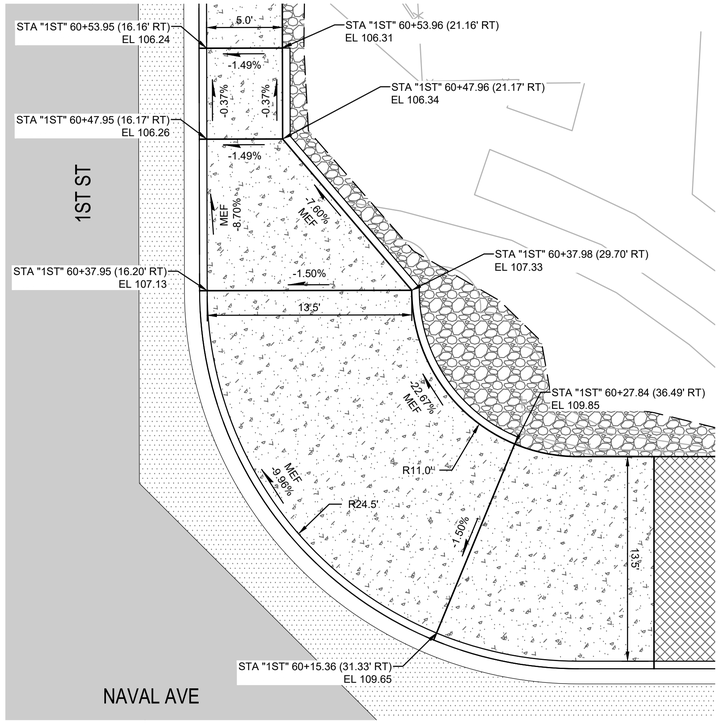
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE *DATE*
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT INTERSECTION GRADING PLANS

PN: PROJNUM

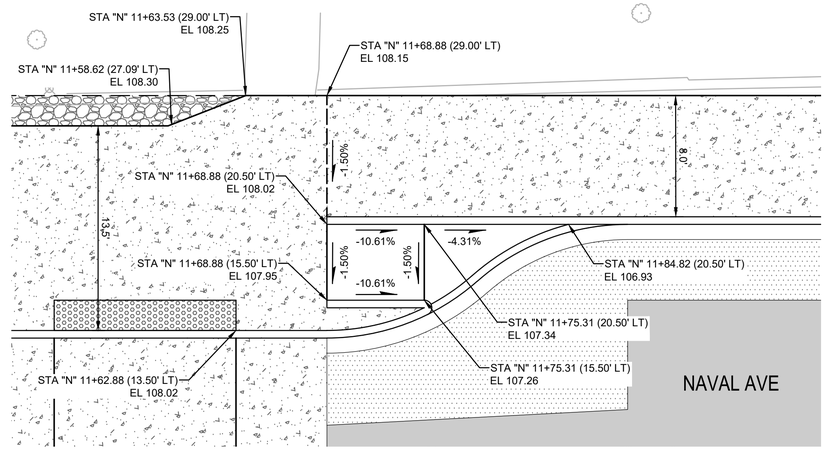
IG17
SHEET
69
OF
179



CURB RAMP CR-01

TYPE PARALLEL A

NOTE: LANDING AREA IS FOR BICYCLE TRANSITION TO AND FROM 1ST ST. PEDESTRIANS TO CONTINUE ALONG SIDEWALK.



BIKE RAMP BR-01

GENERAL NOTES

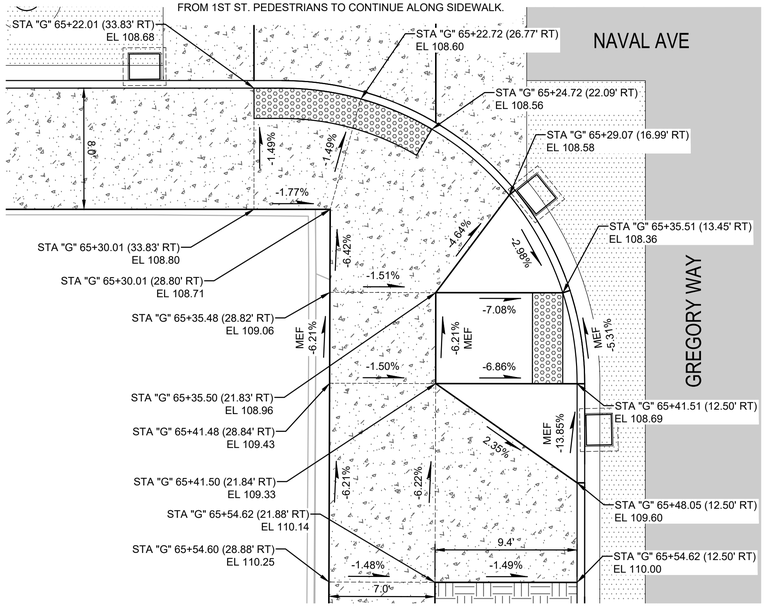
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

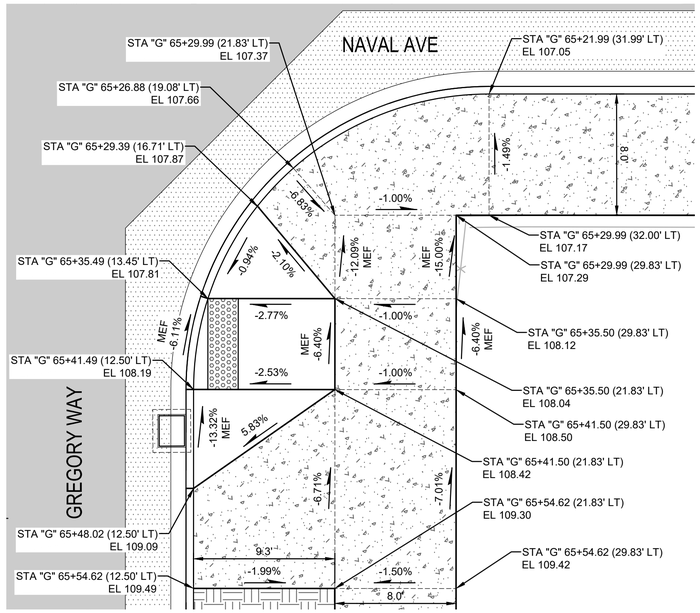
EL = ELEVATION

EX = EXISTING



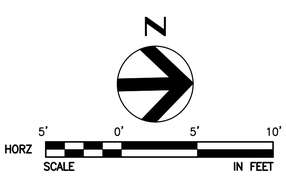
CURB RAMP CR-02

TYPE PERPENDICULAR A



CURB RAMP CR-03

TYPE PERPENDICULAR A



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

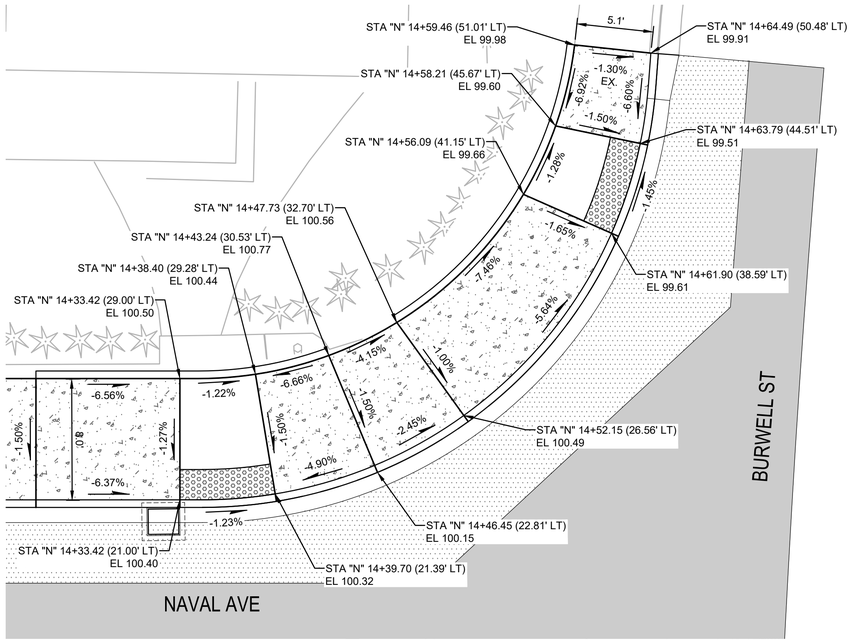
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

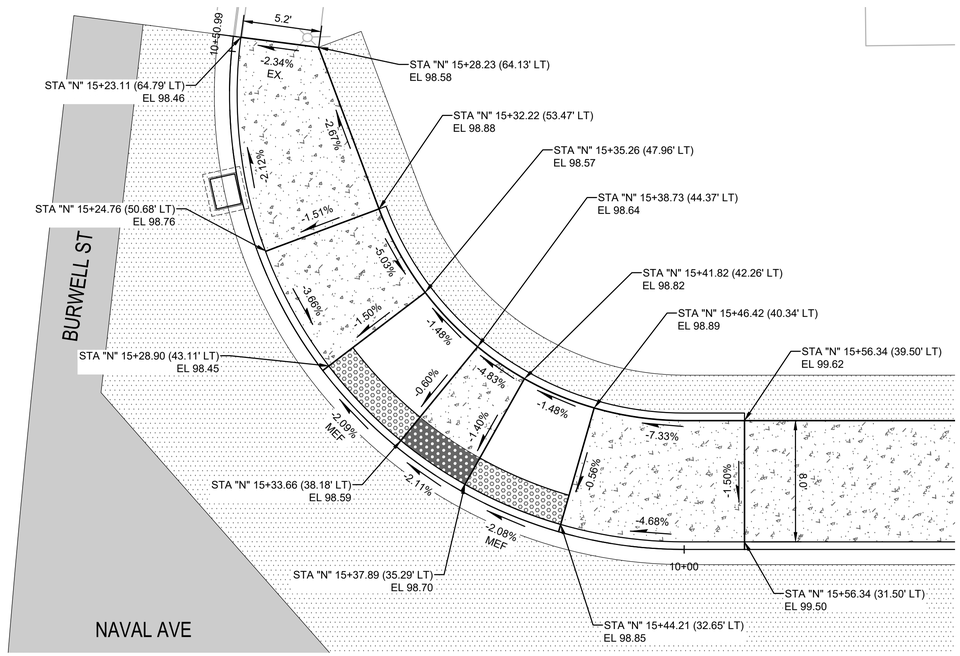
PN. PROJNUM

CR1
SHEET
70
OF
179



CURB RAMP CR-04 & CR-05

TYPE PARALLEL A



CURB RAMP CR-08 & CR-09

TYPE PARALLEL A

CURB RAMP CR-06 & CR-07

TYPE PARALLEL A

CURB RAMP CR-10 & CR-11

TYPE PARALLEL A

GENERAL NOTES

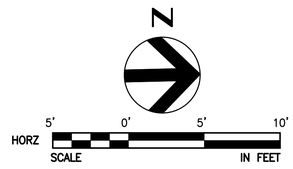
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---

DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

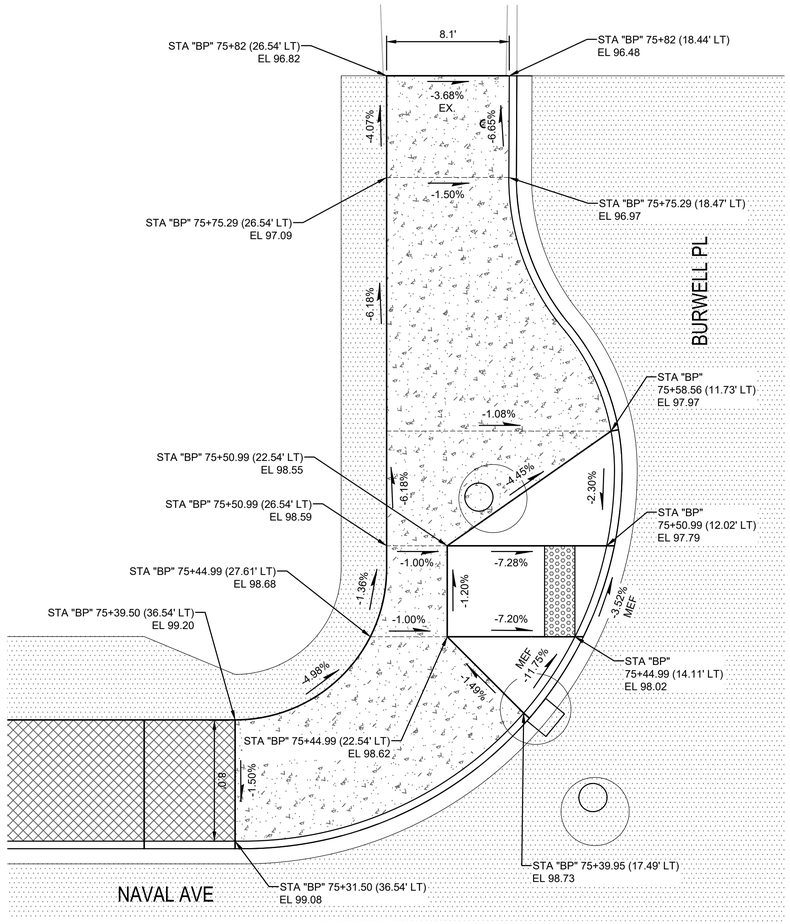
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

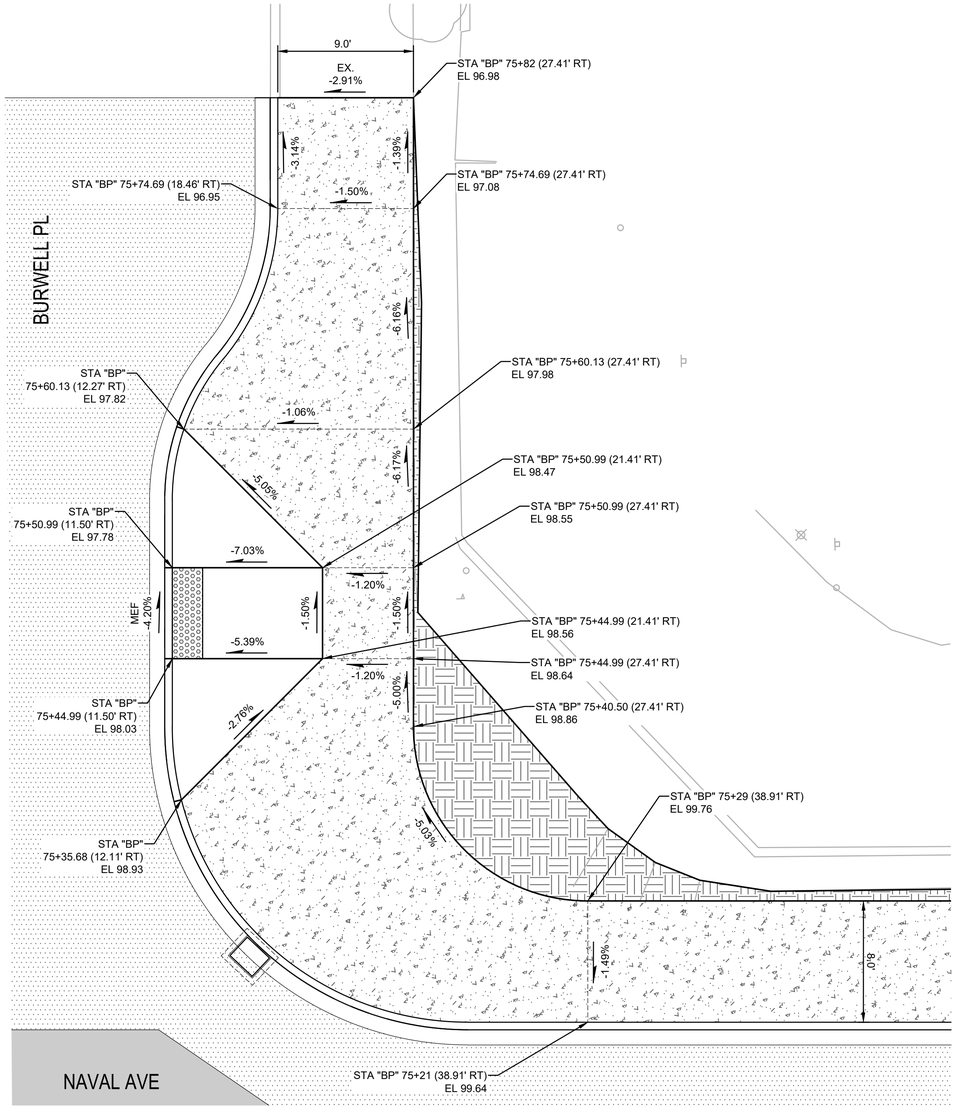
PN. PROJNUM

CR2

SHEET 71 OF 179



CURB RAMP CR-12
TYPE PERPENDICULAR A



CURB RAMP CR-13
TYPE PERPENDICULAR A

GENERAL NOTES

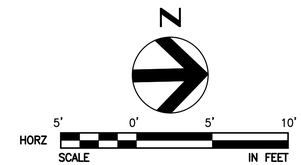
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

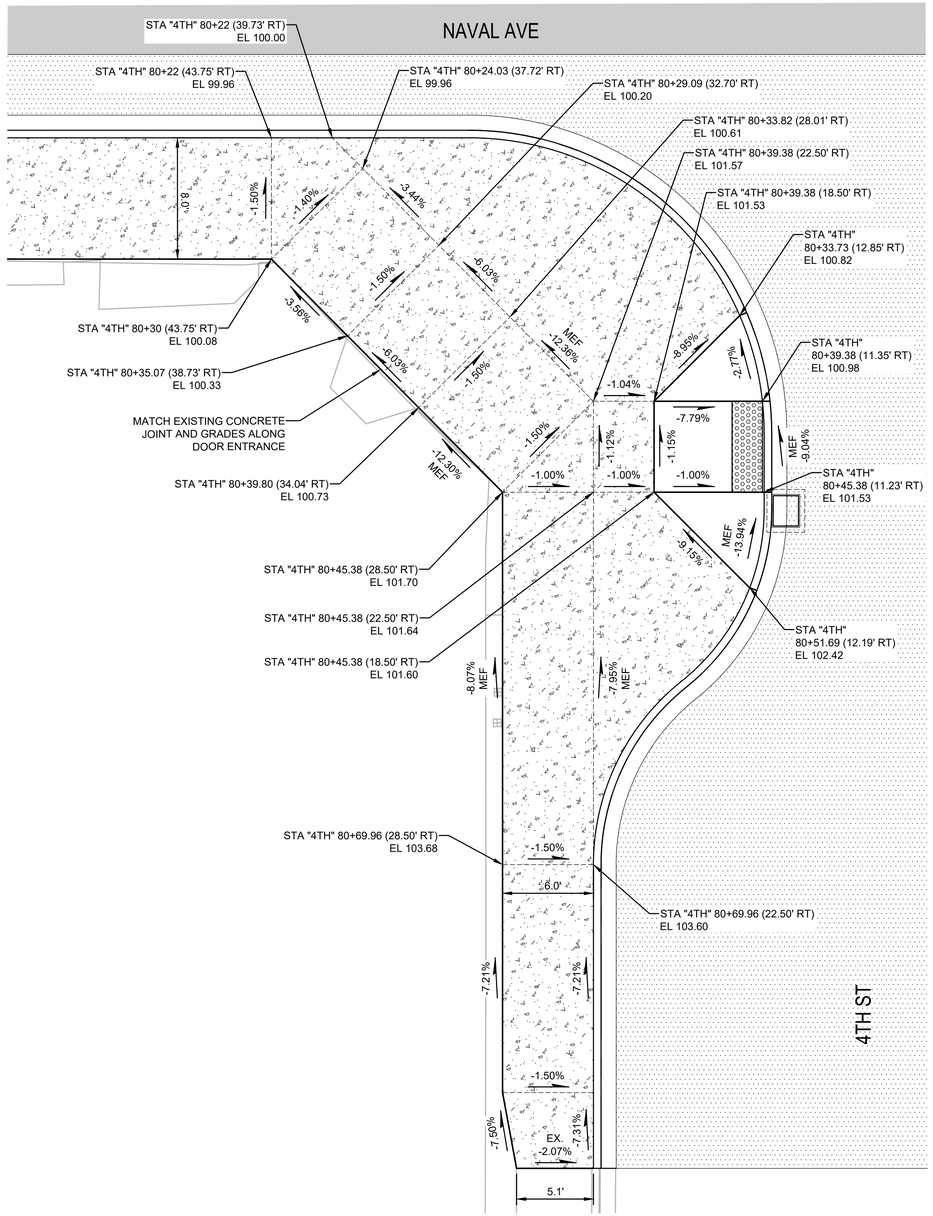
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

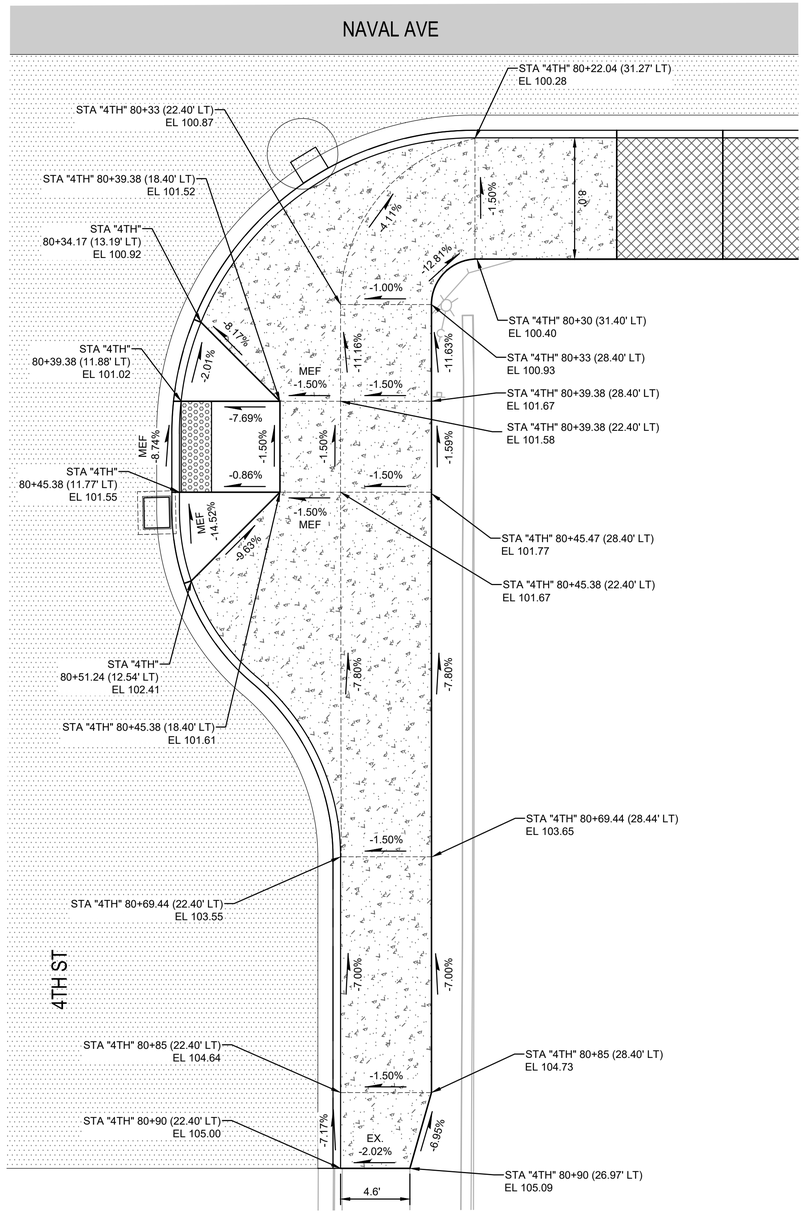
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

PN: PROJNUM

CR3
SHEET
72
OF
179



CURB RAMP CR-14
TYPE PERPENDICULAR A



CURB RAMP CR-15
TYPE PERPENDICULAR A

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
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4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
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6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION
EX = EXISTING

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

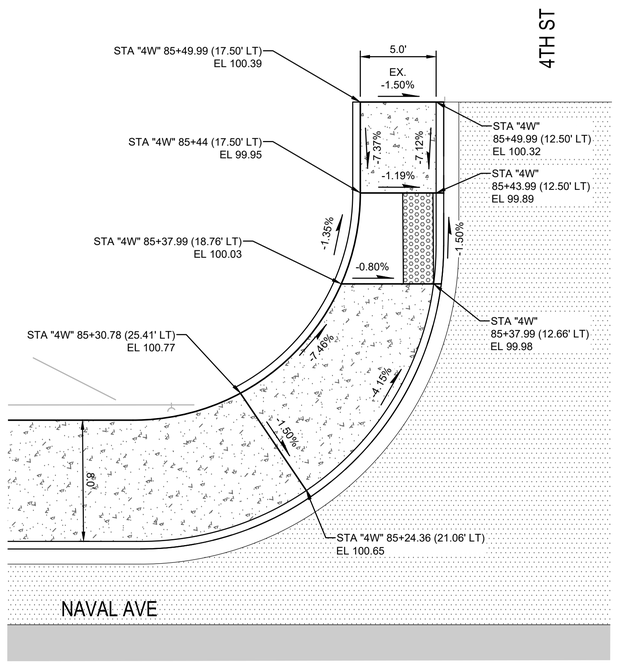
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

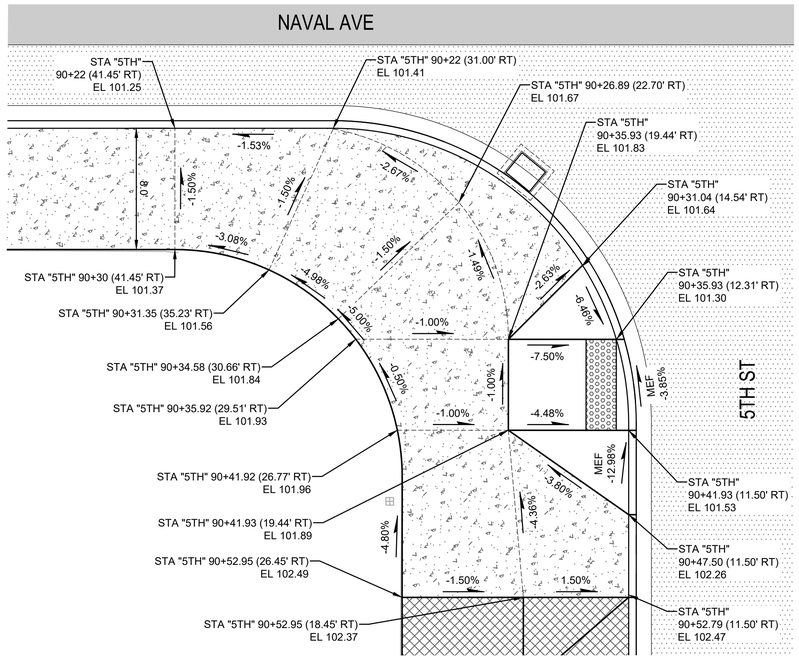
PN: PROJNUM

CR4
SHEET
73
OF
179



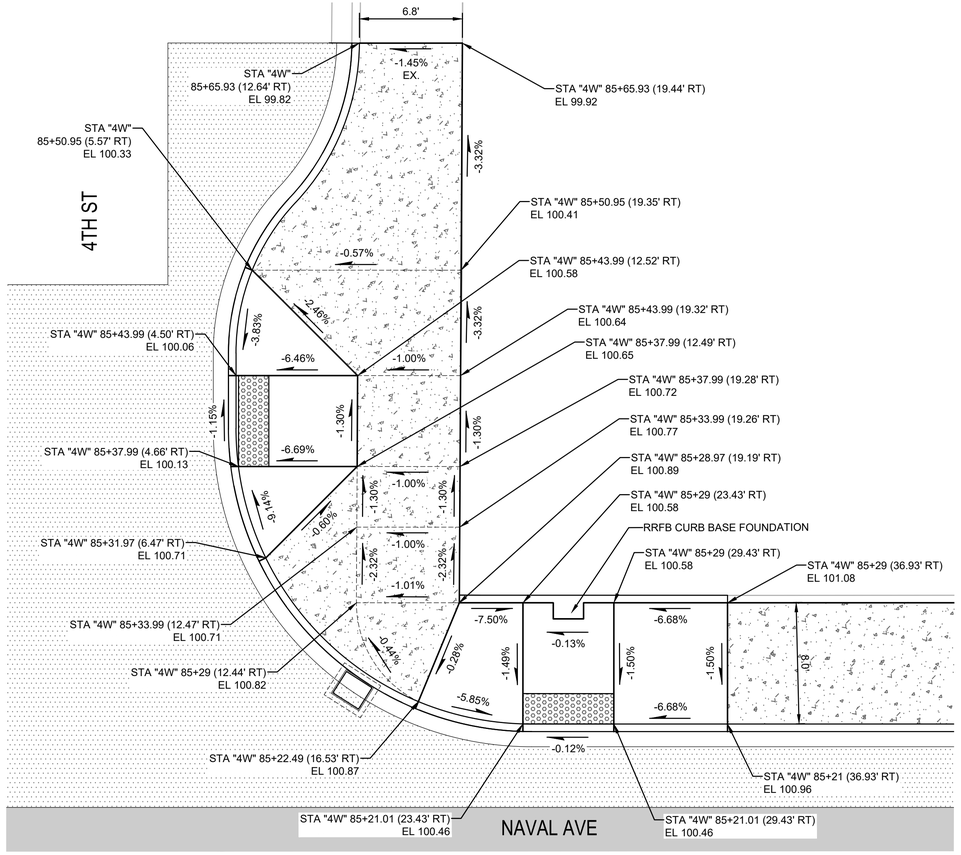
CURB RAMP CR-16

TYPE PARALLEL A



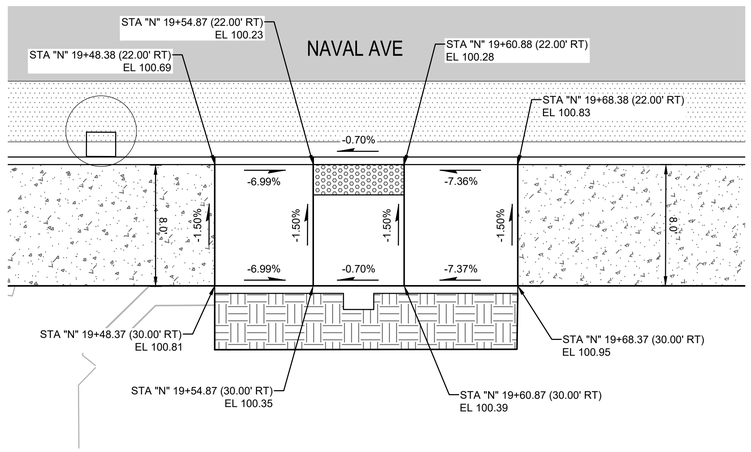
CURB RAMP CR-20

TYPE PERPENDICULAR A



CURB RAMP CR-17 & CR-18

TYPE PERPENDICULAR A & TYPE PARALLEL A



CURB RAMP CR-19

TYPE PARALLEL A

GENERAL NOTES

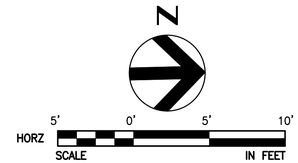
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

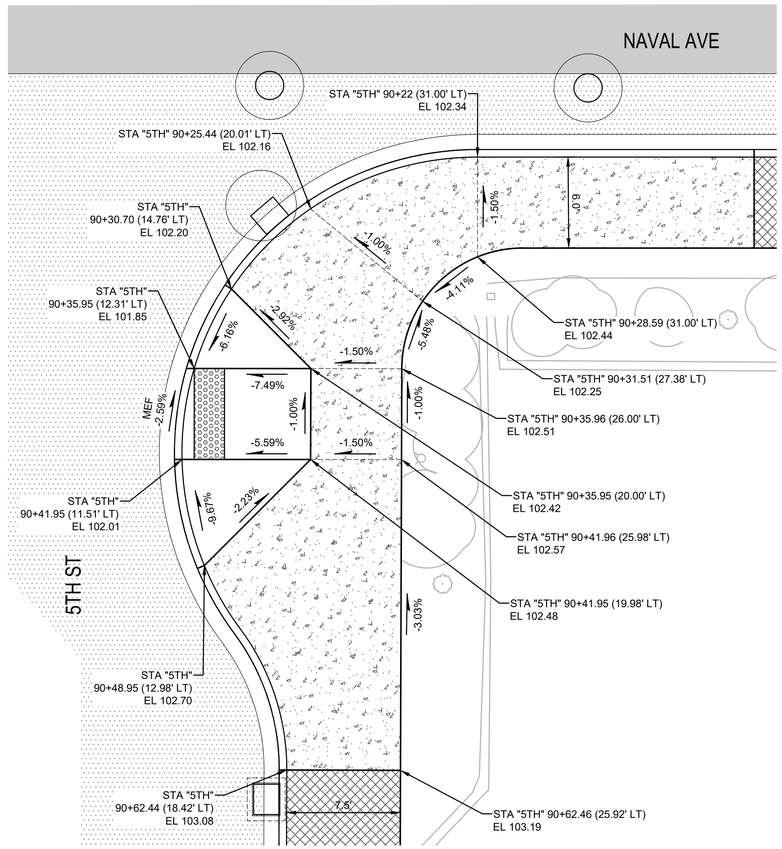
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

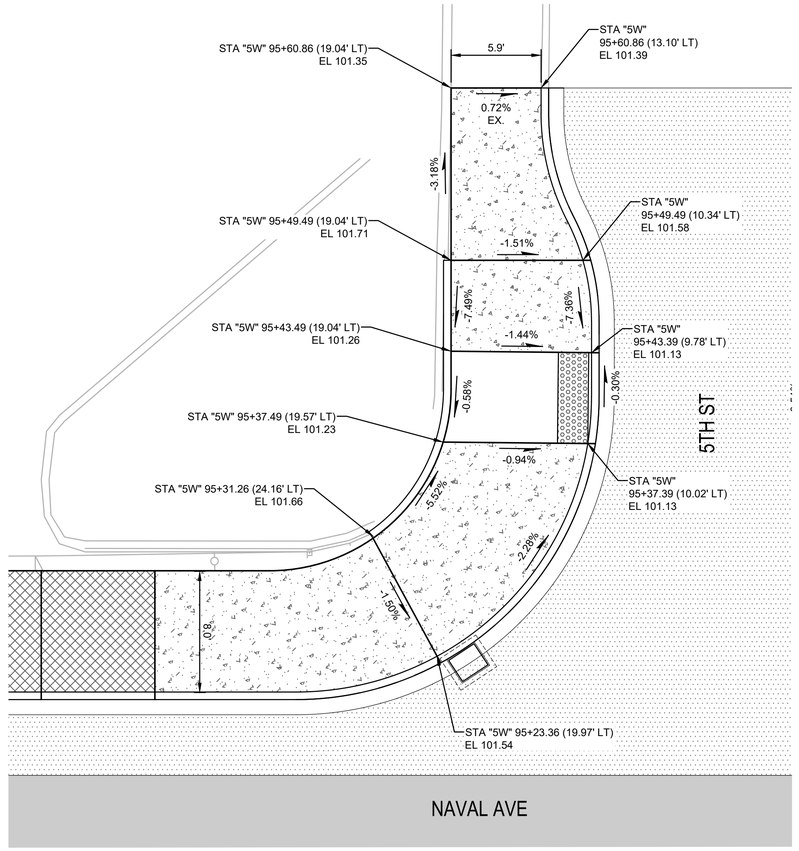
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

PN: PROJNUM

CR5
SHEET
74
OF
179



CURB RAMP CR-21
TYPE PERPENDICULAR A



CURB RAMP CR-22
TYPE PARALLEL A

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
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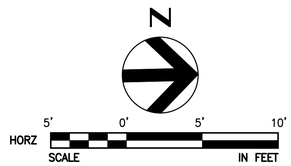
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

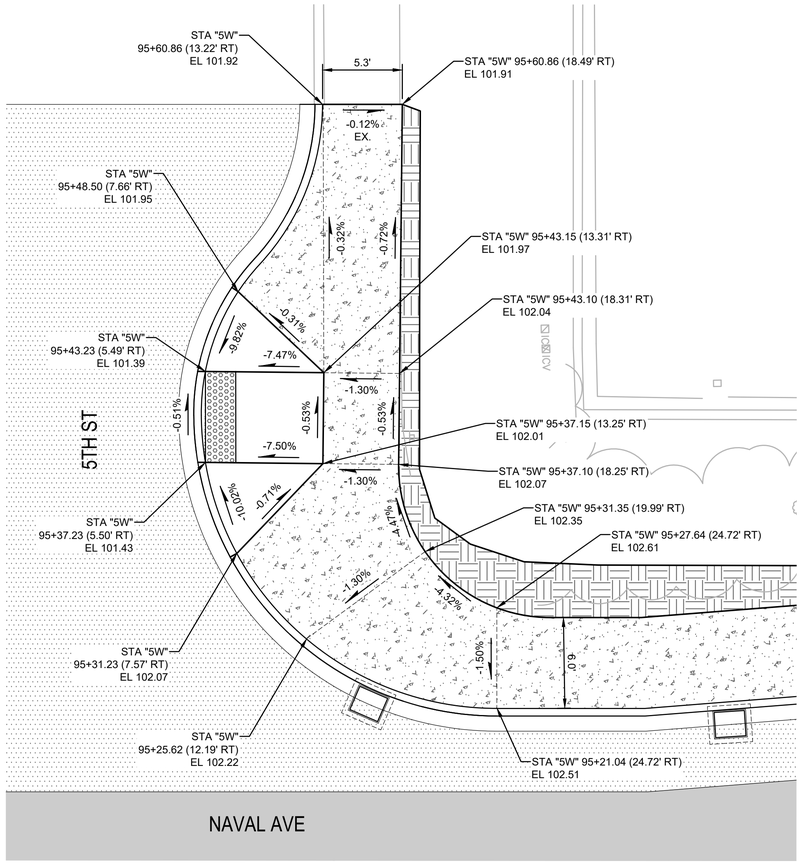
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

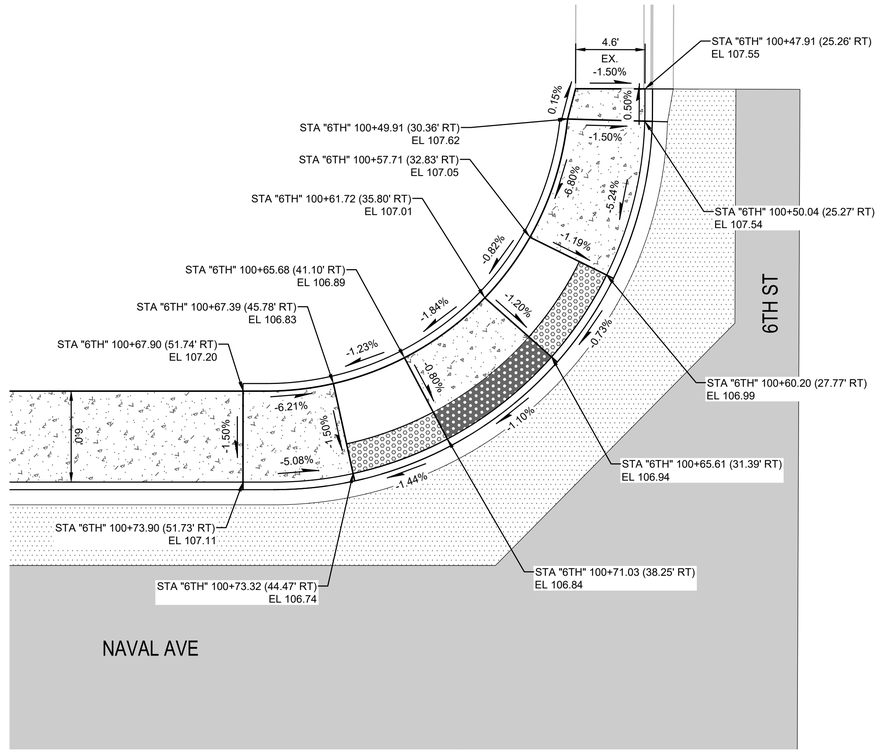
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

PN: PROJNUM

CR6
SHEET
75
OF
179



CURB RAMP CR-23
TYPE PERPENDICULAR A



CURB RAMP CR-24 & CR-25
TYPE PARALLEL A

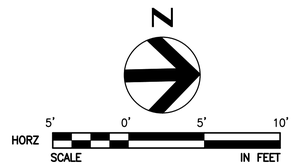
GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION
EX = EXISTING



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

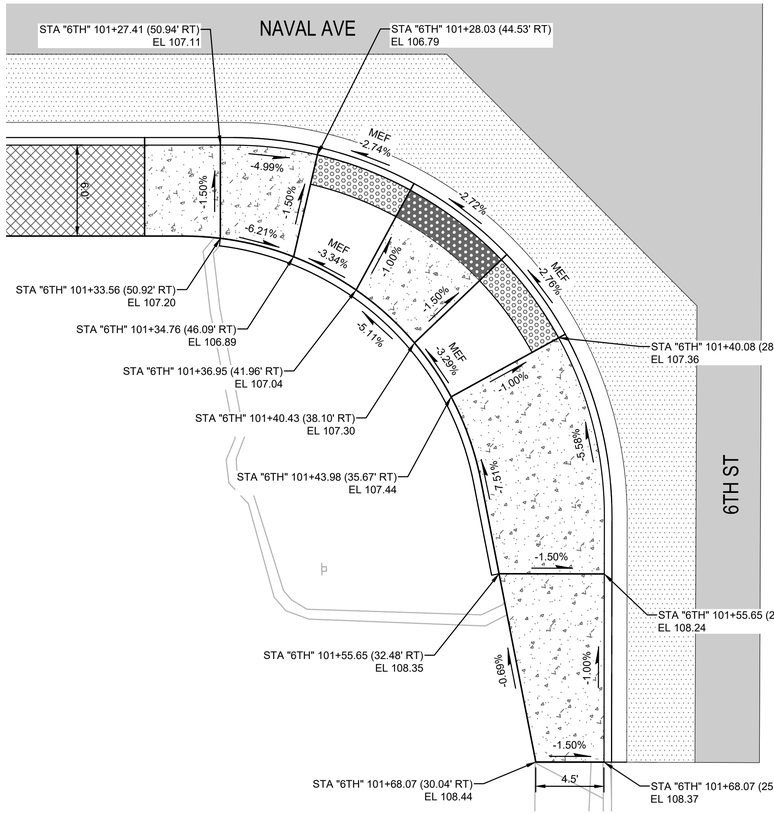
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

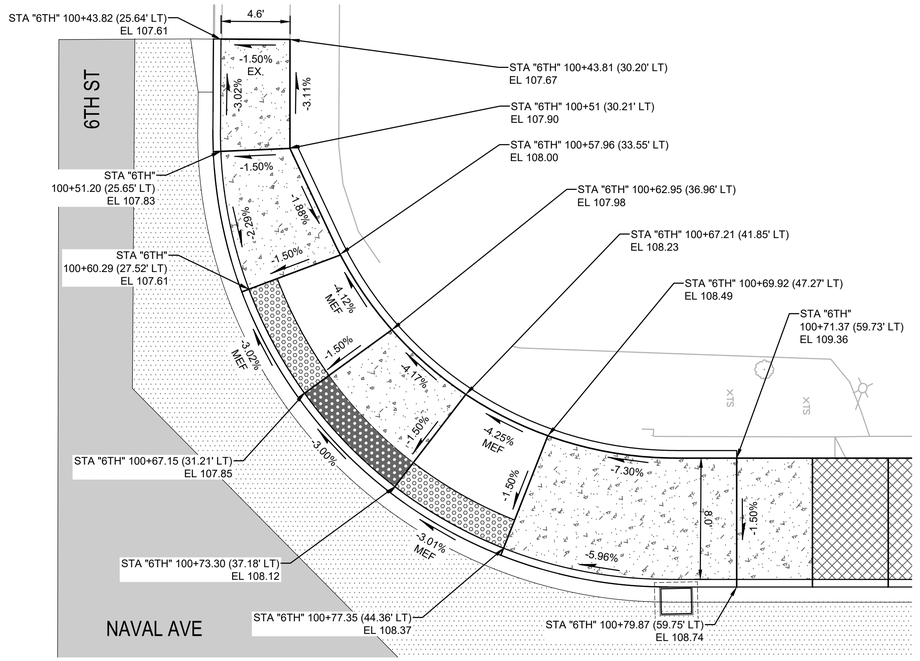
PN: PROJNUM

CR7
SHEET
76
OF
179



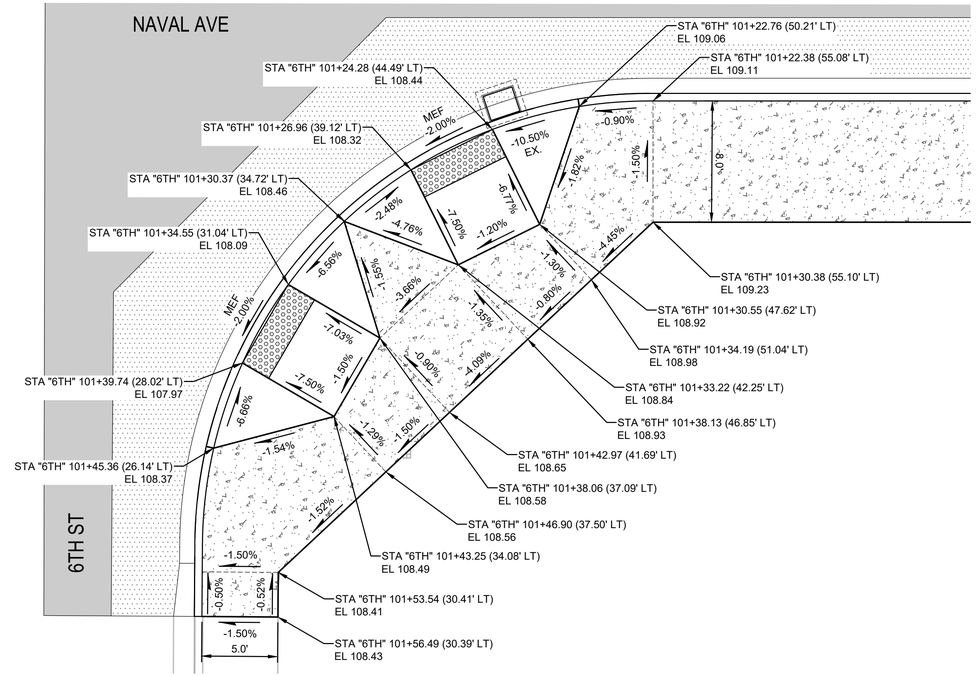
CURB RAMP CR-26 & CR-27

TYPE PARALLEL A



CURB RAMP CR-28 & CR-29

TYPE PARALLEL A



CURB RAMP CR-30 & CR-31

TYPE PERPENDICULAR A

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- 4" — CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING

N

HORZ SCALE 5' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---

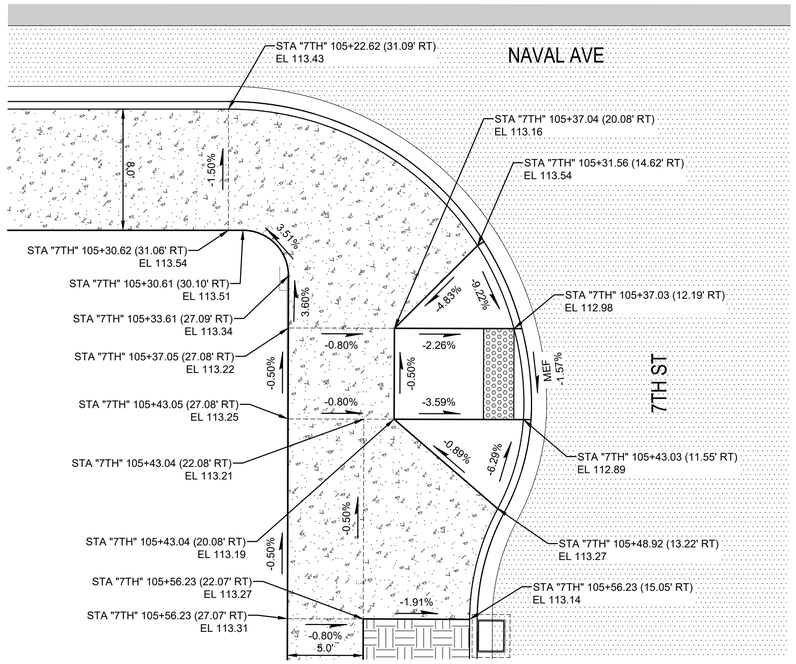
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

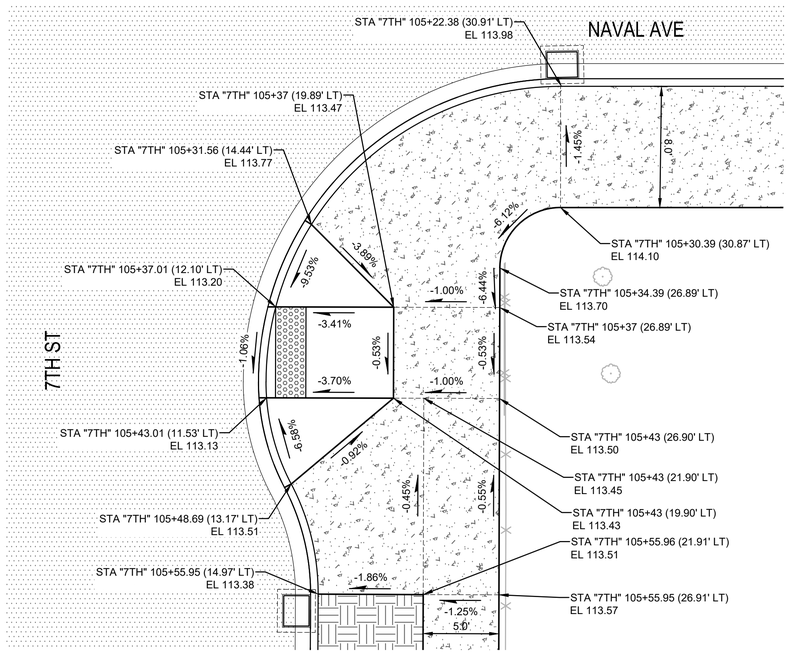
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

PN: PROJNUM

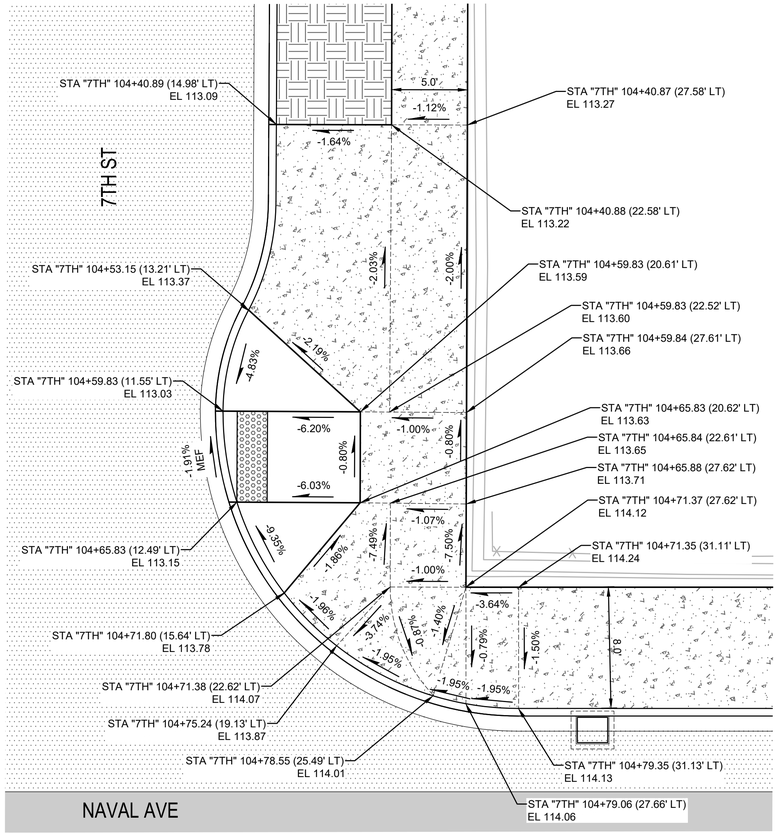
CR8
SHEET
77
OF
179



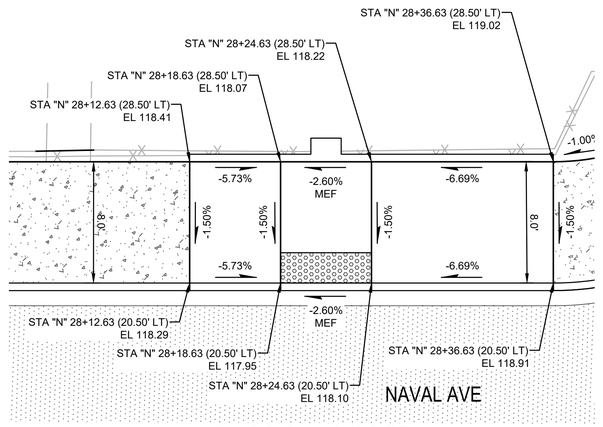
CURB RAMP CR-32
TYPE PERPENDICULAR A



CURB RAMP CR-34
TYPE PERPENDICULAR A



CURB RAMP CR-33
TYPE PERPENDICULAR A



CURB RAMP CR-35
TYPE PARALLEL A

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING

N

HORZ SCALE 5' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

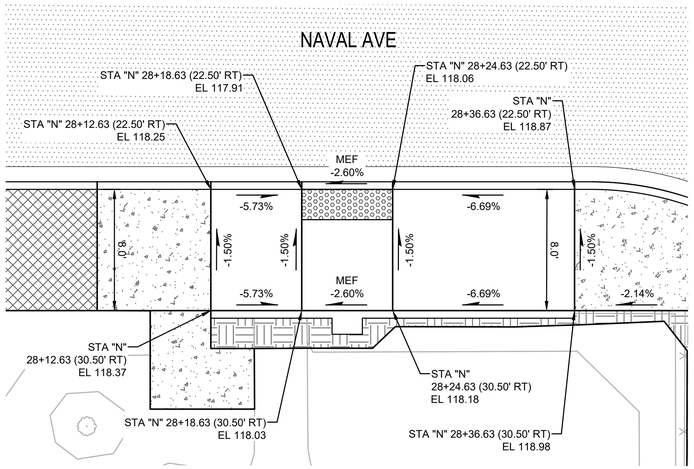
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

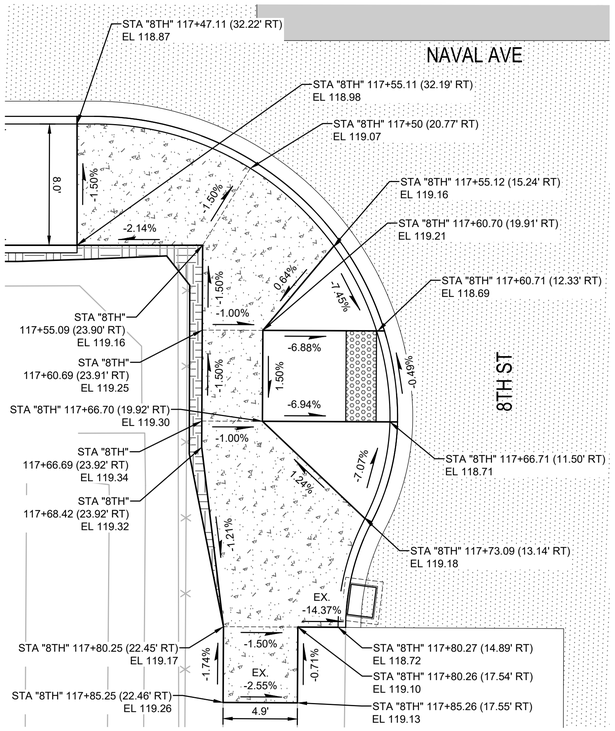
PN: PROJNUM

CR9
SHEET
78
OF
179



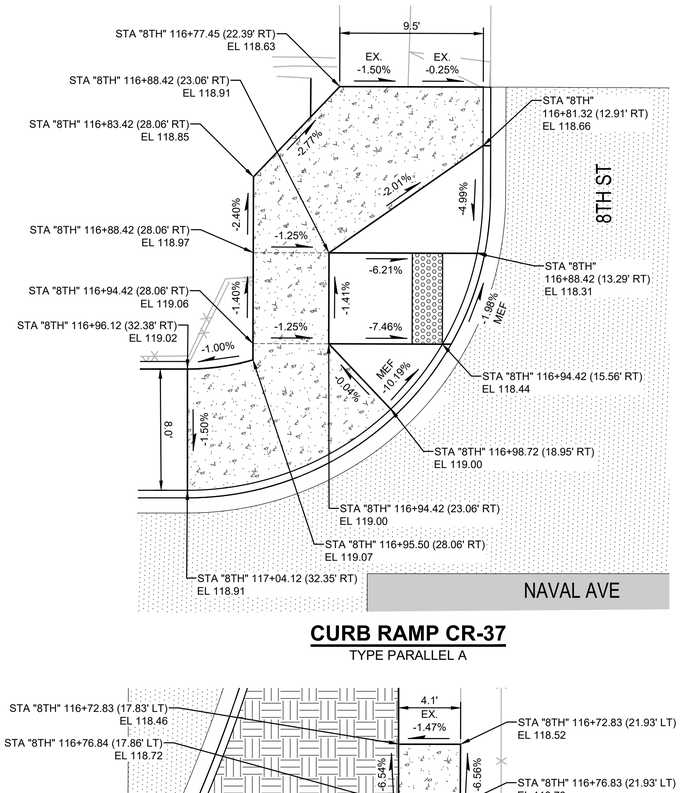
CURB RAMP CR-36

TYPE PARALLEL A



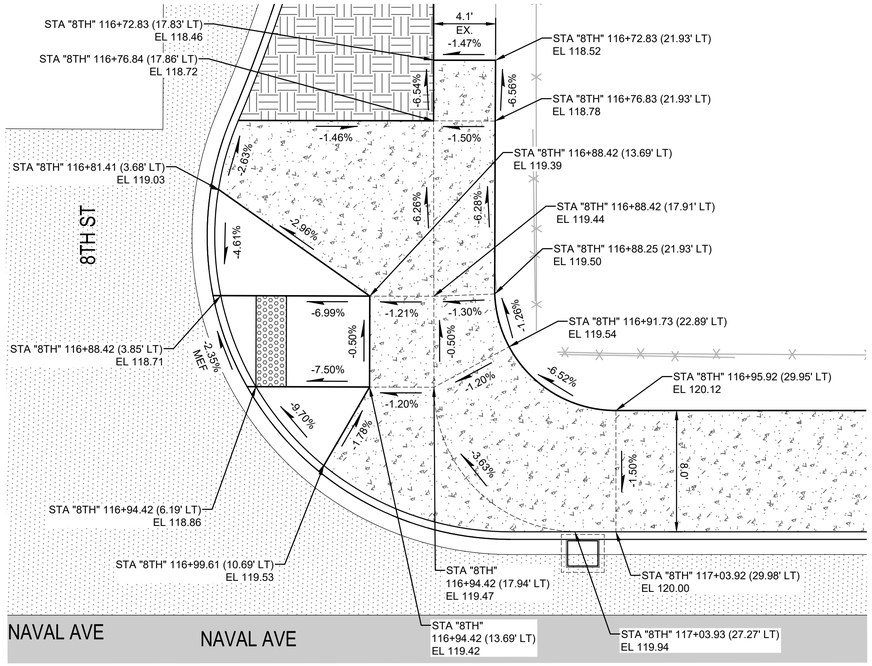
CURB RAMP CR-38

TYPE PERPENDICULAR A



CURB RAMP CR-37

TYPE PARALLEL A



CURB RAMP CR-39

TYPE PERPENDICULAR A

GENERAL NOTES

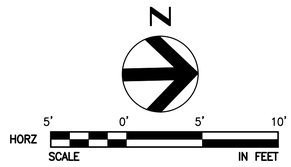
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---

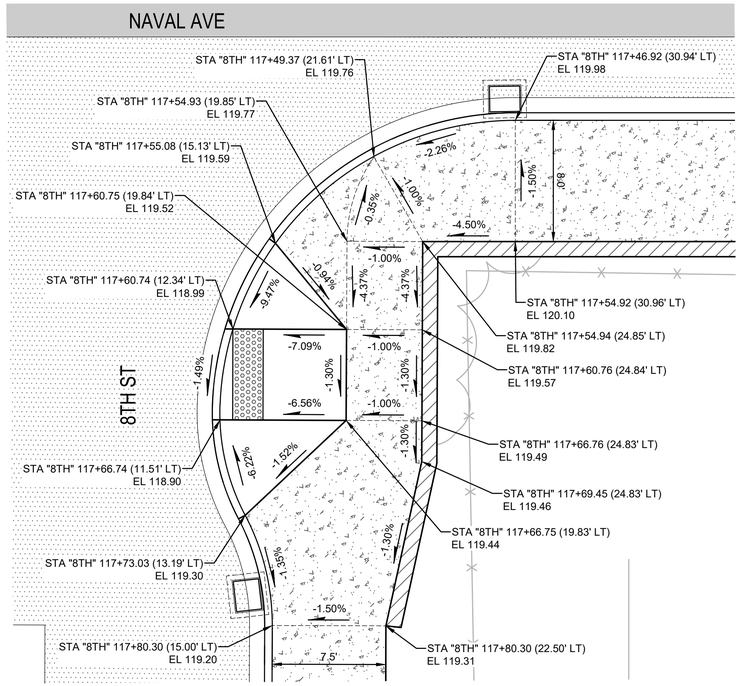
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

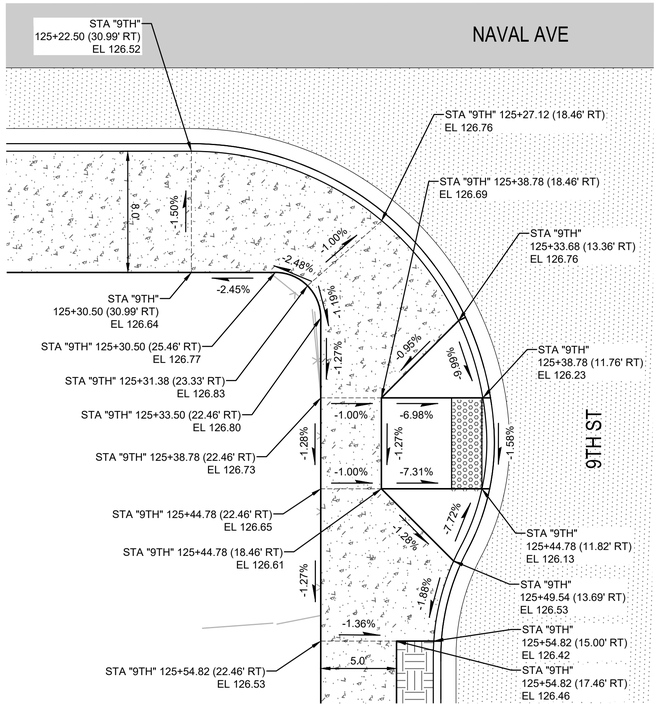
PN: PROJNUM

CR10
SHEET
79
OF
179



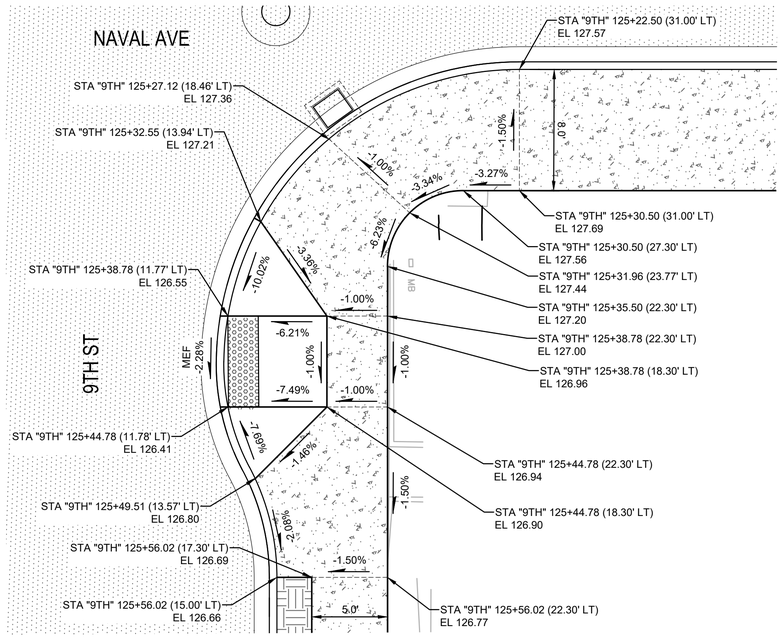
CURB RAMP CR-40

TYPE PERPENDICULAR A



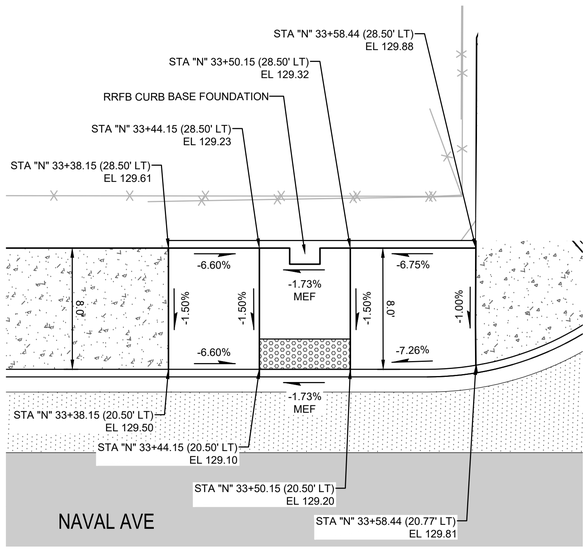
CURB RAMP CR-41

TYPE PERPENDICULAR A



CURB RAMP CR-42

TYPE PERPENDICULAR A



CURB RAMP CR-43

TYPE PARALLEL A

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING

N

HORZ SCALE 5' 0' 5' 10' IN FEET

CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. ---- VERT. ----

FIELD BOOK

DRAWING NO.

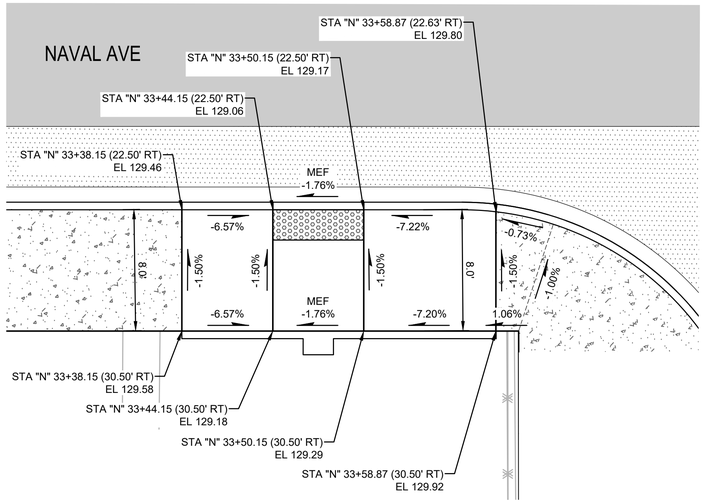
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

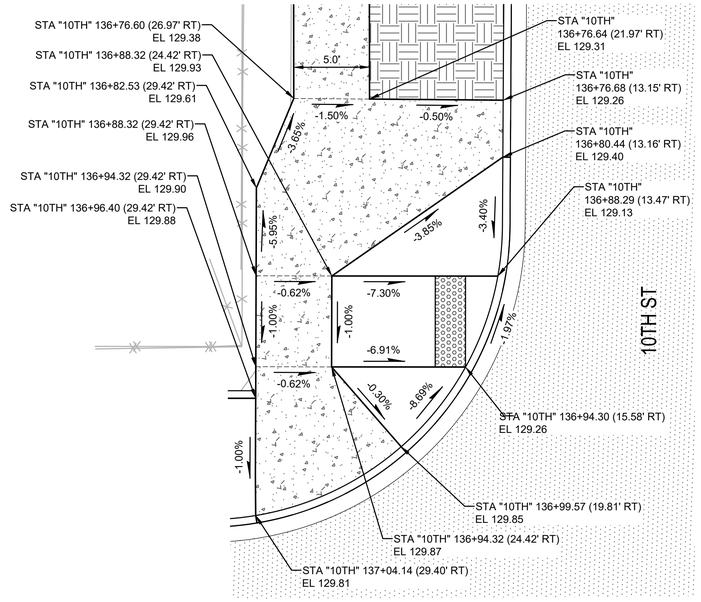
PN: PROJNUM

CR11
SHEET
80
OF
179



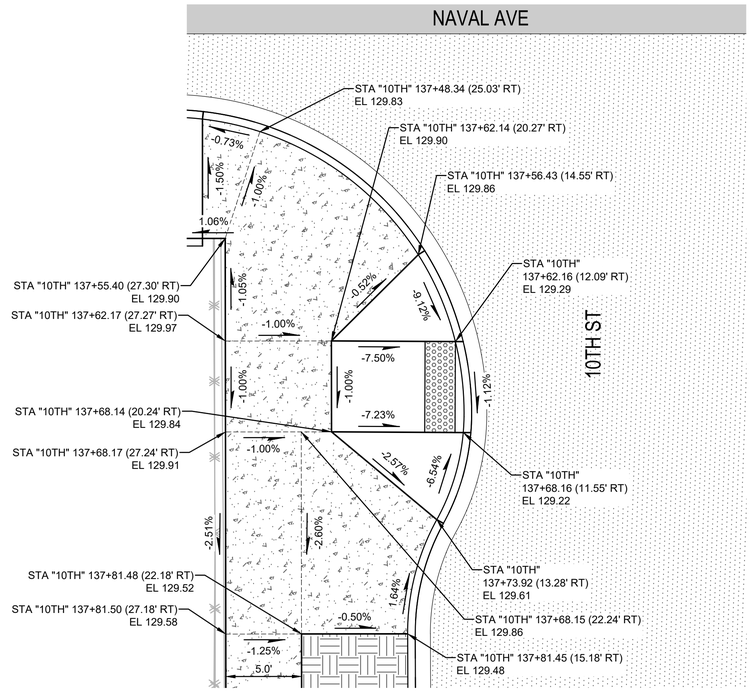
CURB RAMP CR-44

TYPE PARALLEL A



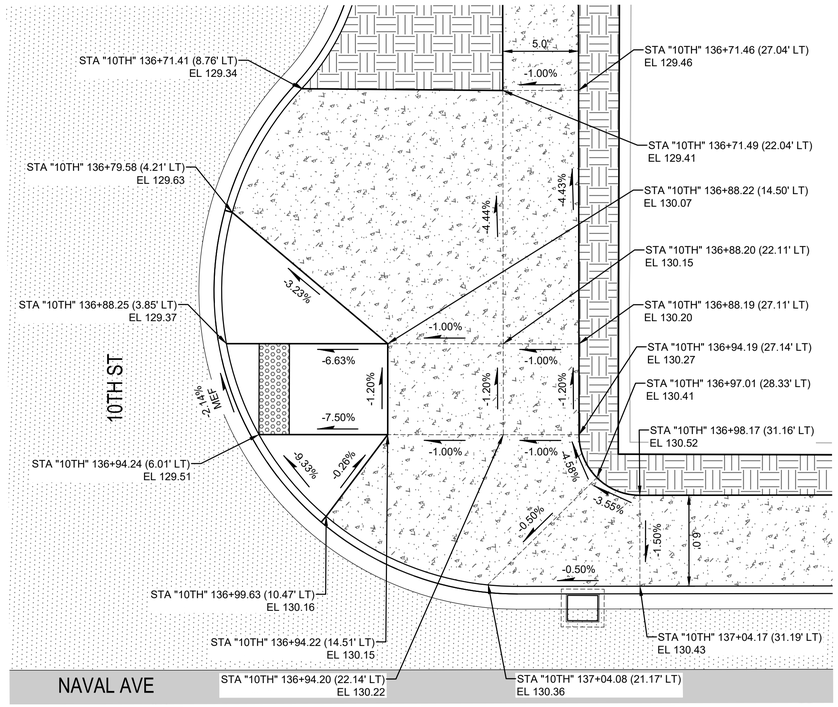
CURB RAMP CR-45

TYPE PERPENDICULAR A



CURB RAMP CR-46

TYPE PERPENDICULAR A



CURB RAMP CR-47

TYPE PERPENDICULAR A

GENERAL NOTES

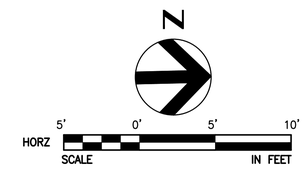
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

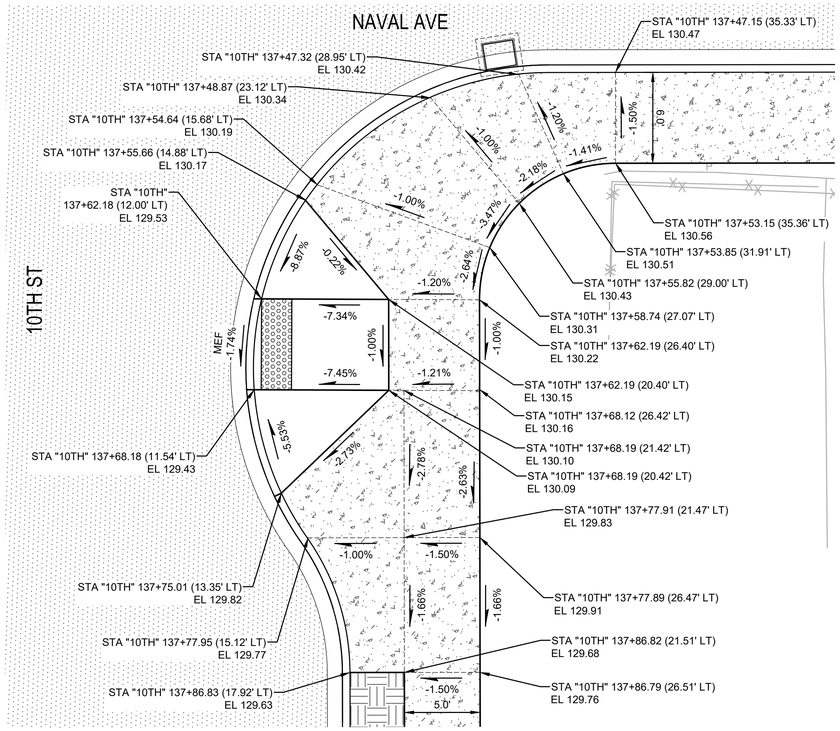
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

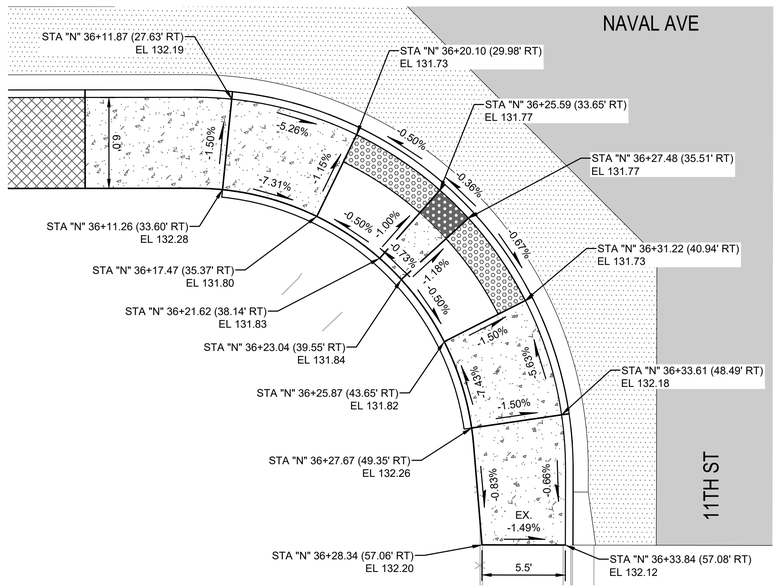
PN: PROJNUM

CR12
SHEET
81
OF
179



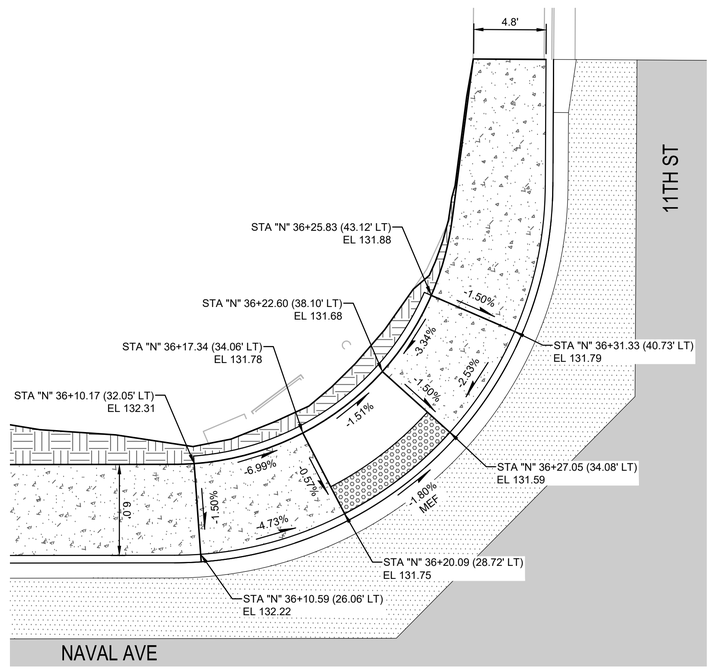
CURB RAMP CR-48

TYPE PERPENDICULAR A



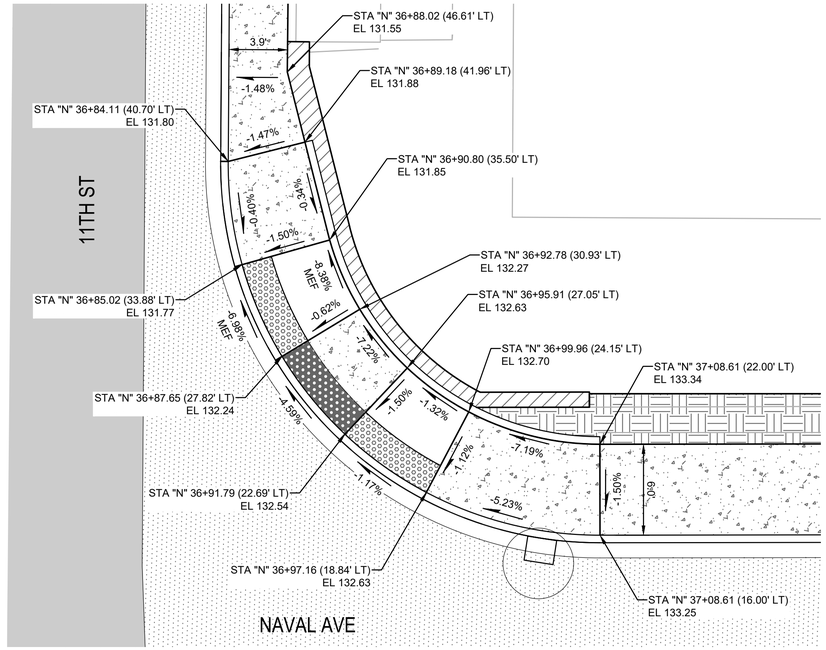
CURB RAMP CR-50 & CR-51

TYPE PARALLEL A



CURB RAMP CR-49

TYPE PARALLEL A



CURB RAMP CR-52 & CR-53

TYPE PARALLEL A

GENERAL NOTES

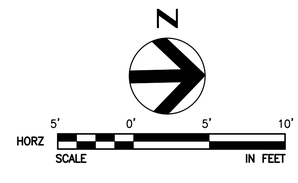
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

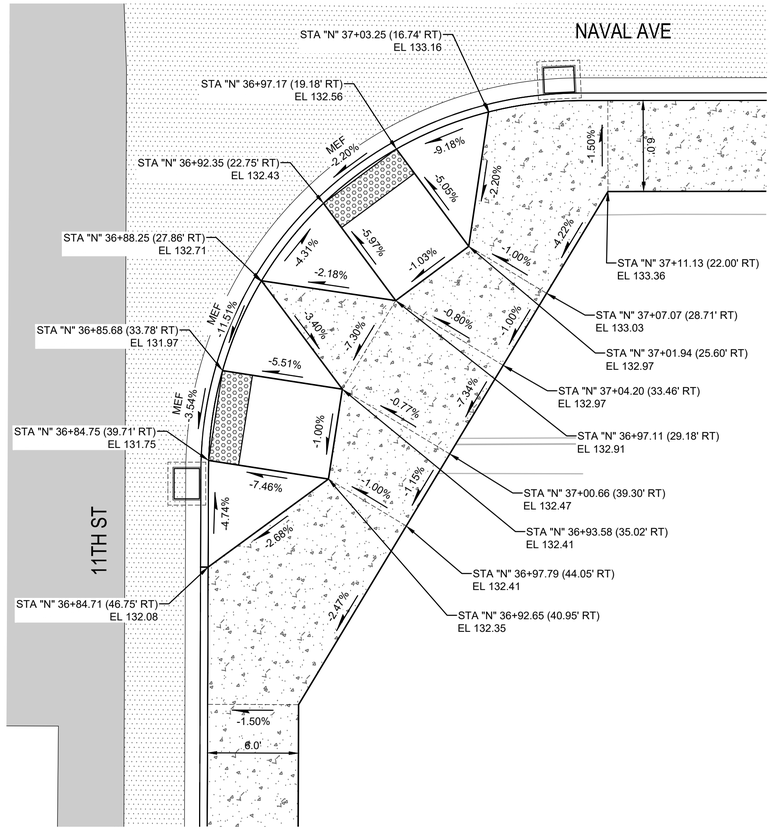
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

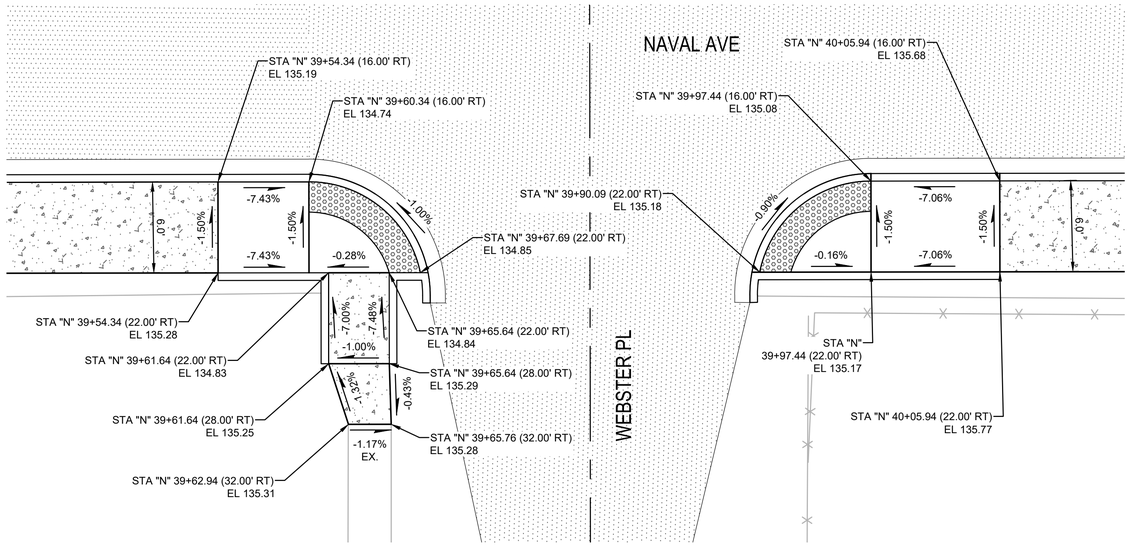
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

PN: PROJNUM

CR13
SHEET
82
OF
179



CURB RAMP CR-54 & CR-55
TYPE PERPENDICULAR A



CURB RAMP CR-56
TYPE SINGLE DIRECTION A

CURB RAMP CR-57
TYPE SINGLE DIRECTION A

GENERAL NOTES

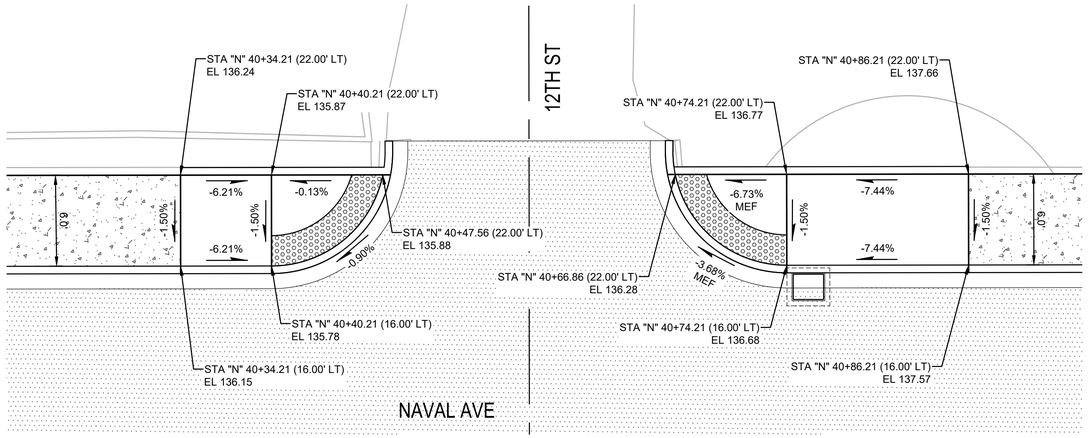
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

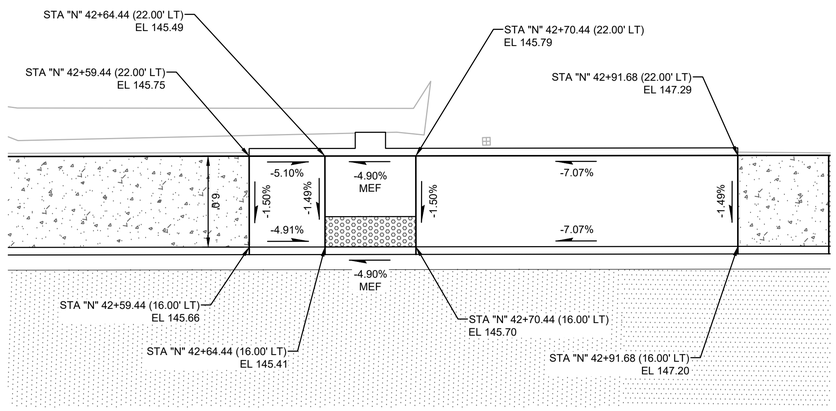
EL = ELEVATION

EX = EXISTING

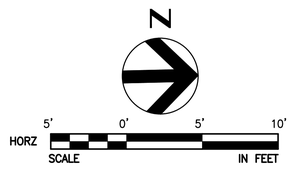


CURB RAMP CR-58
TYPE SINGLE DIRECTION A

CURB RAMP CR-59
TYPE SINGLE DIRECTION A



CURB RAMP CR-60
TYPE PARALLEL A



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

PN: PROJNUM

CR14
SHEET
83
OF
179

GENERAL NOTES

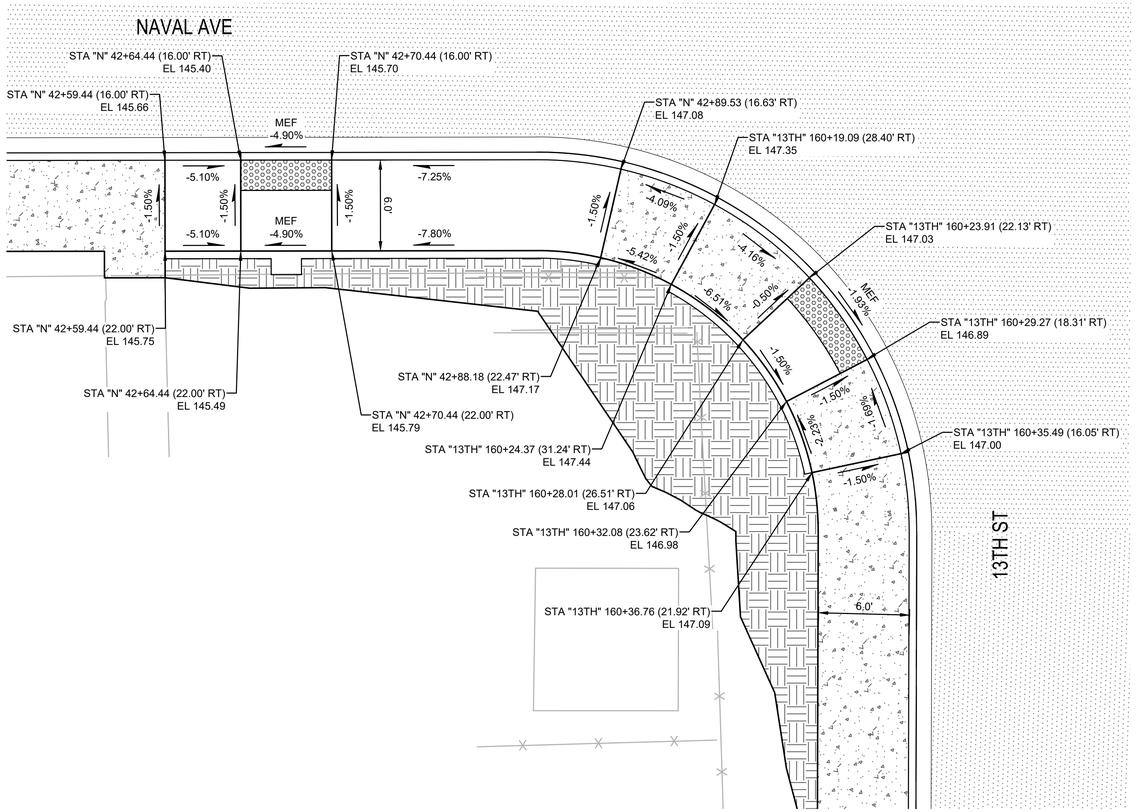
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

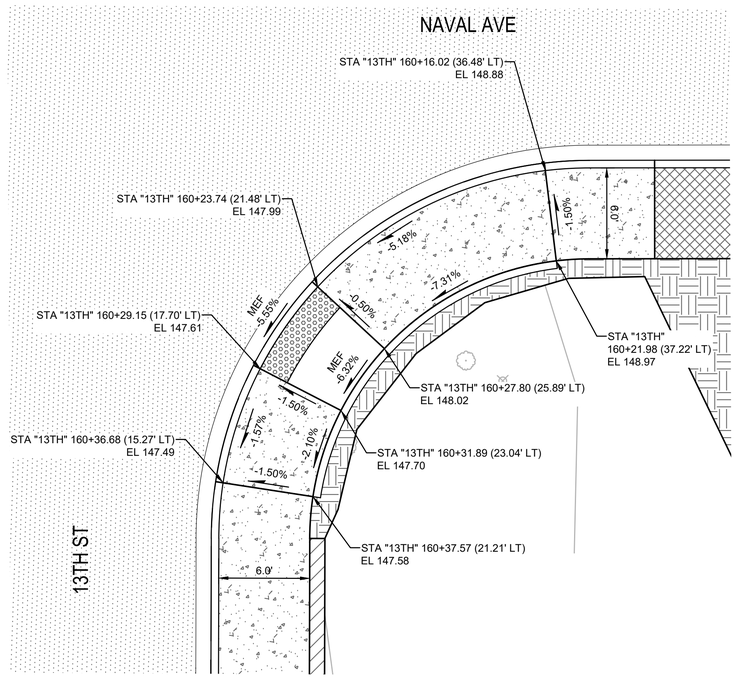
- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

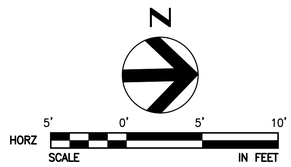
EX = EXISTING



CURB RAMP CR-61 & CR-62
TYPE PARALLEL A



CURB RAMP CR-63
TYPE PARALLEL A



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

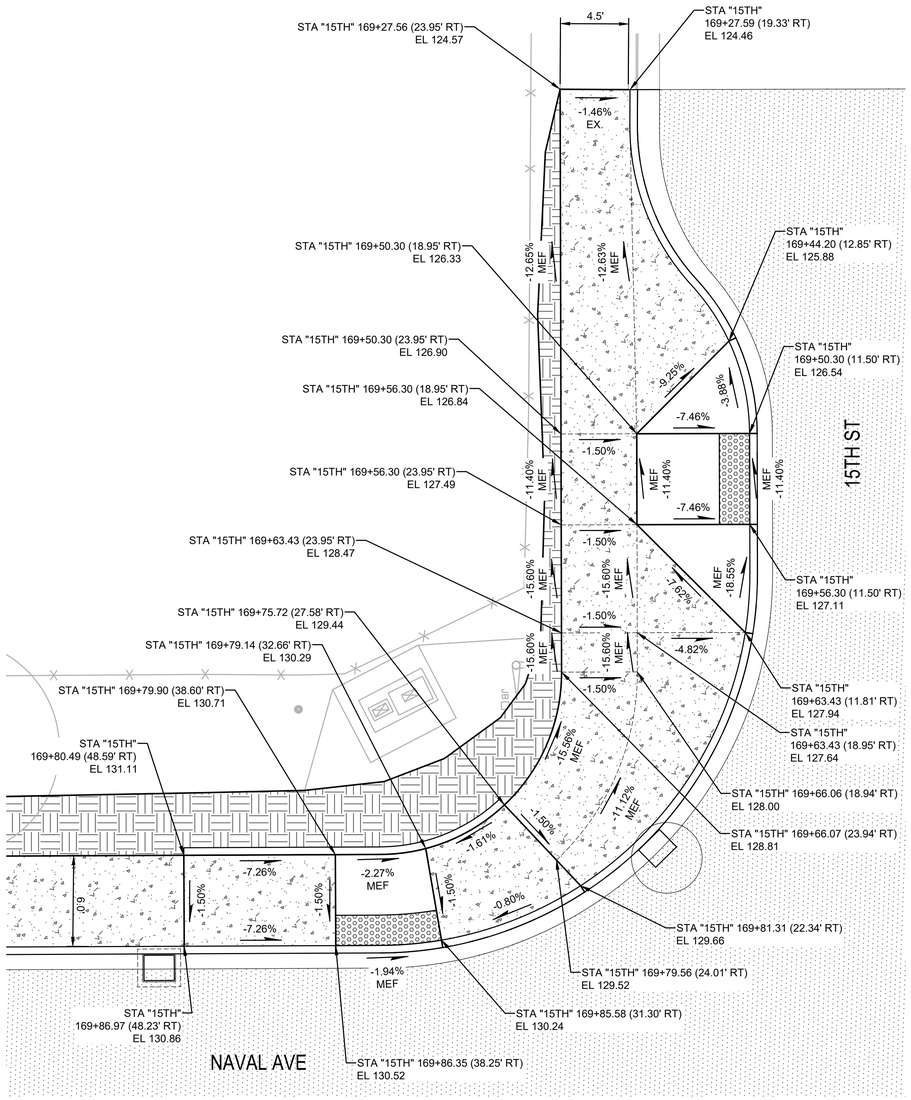
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CURB RAMP GRADING DETAILS

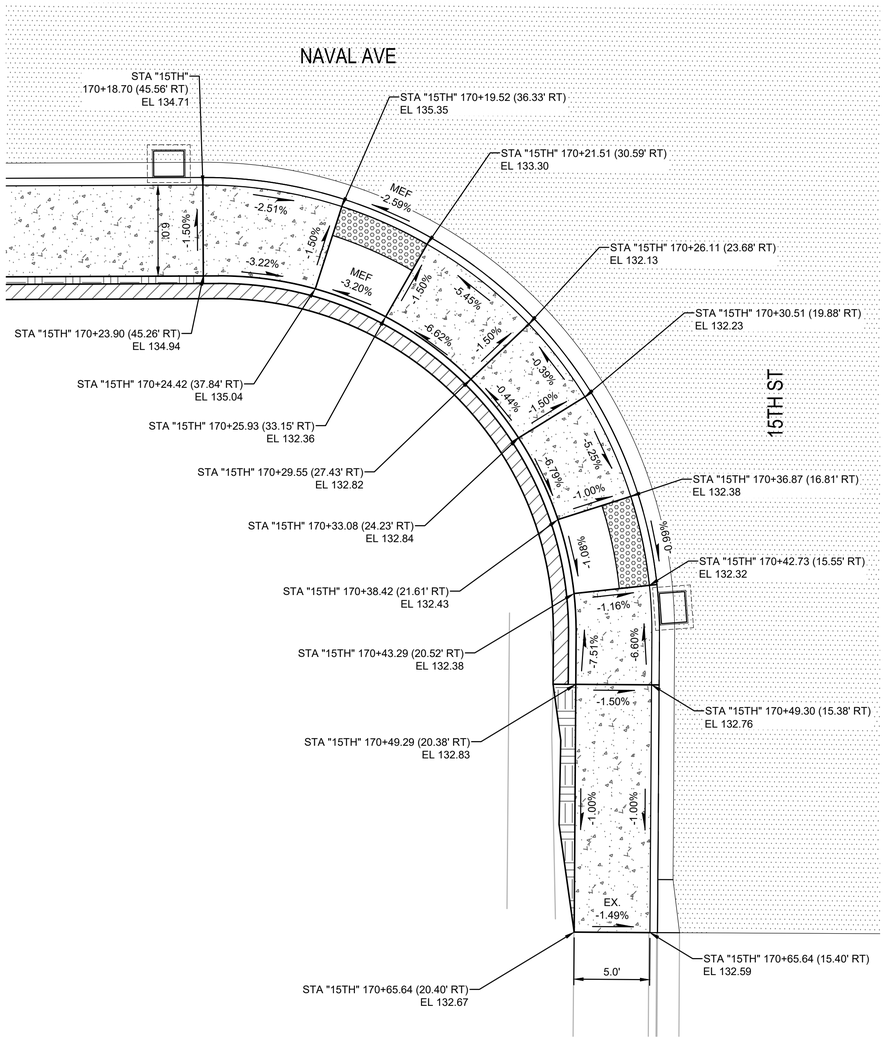
P.N. PROJNUM

CR15
SHEET
84
OF
179



CURB RAMP CR-64 & CR-65

TYPE PARALLEL A AND PERPENDICULAR A



CURB RAMP CR-66 & CR-67

TYPE PARALLEL A

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING

N

HORZ SCALE 5' 0' 5' 10' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: J. MCGLAMERY DATE ---

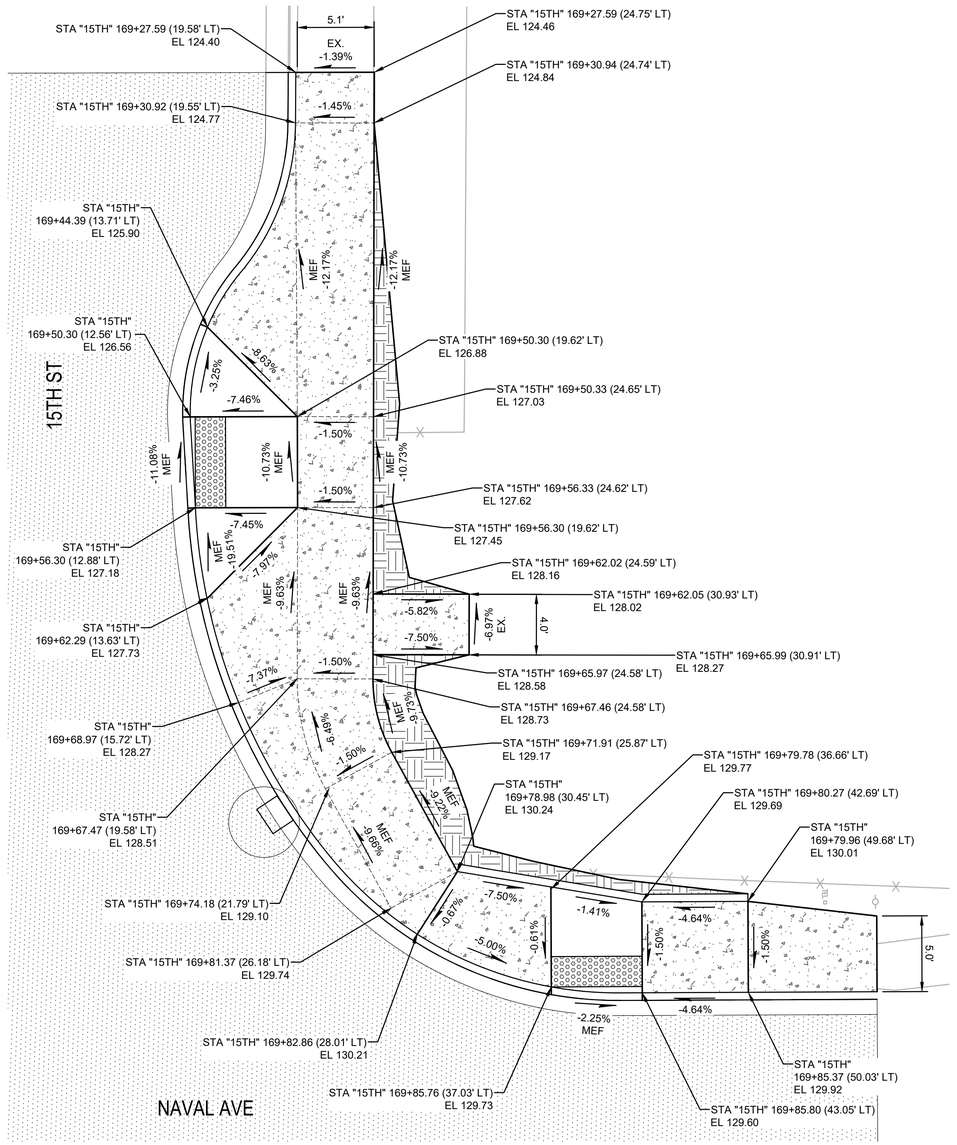
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---

CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

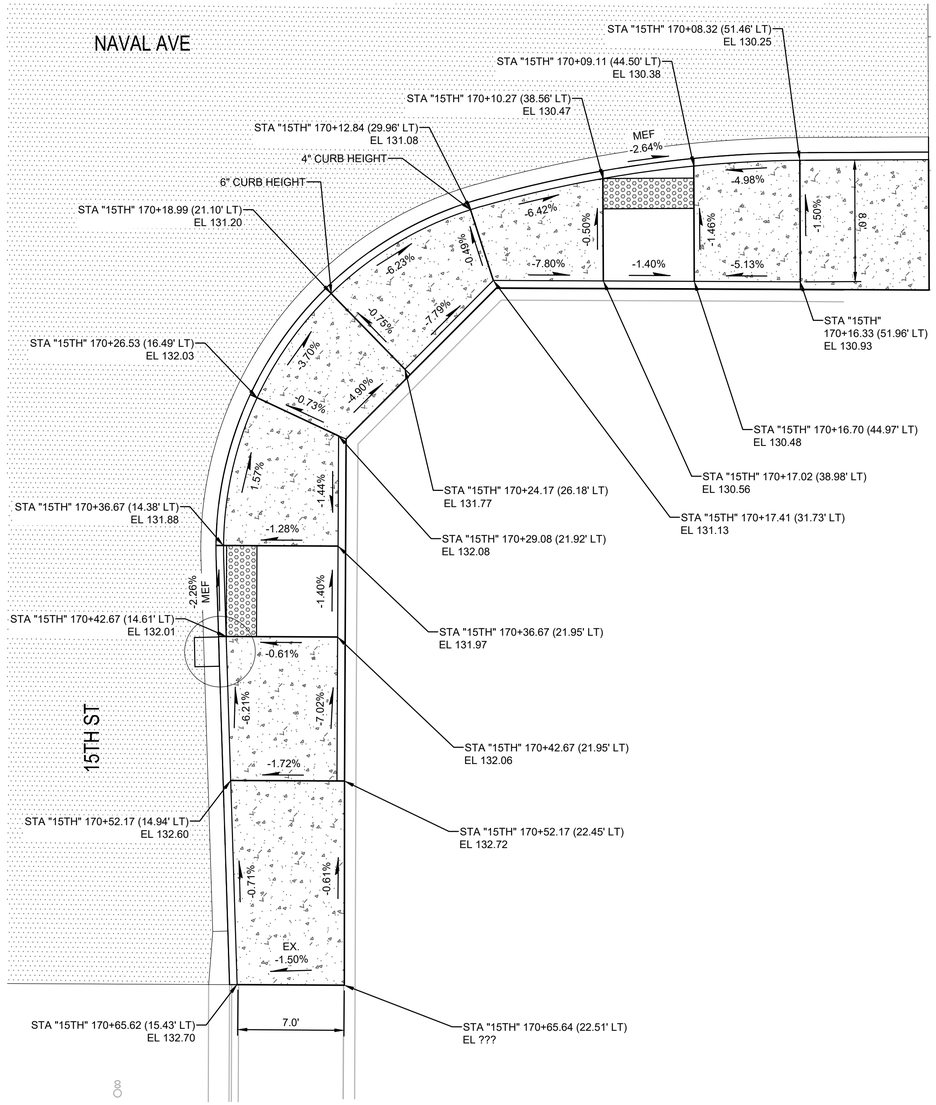
PN: PROJNUM

CR16
SHEET
85
OF
179



CURB RAMP CR-68 & CR-69

TYPE PARALLEL A



CURB RAMP CR-70 & CR-71

TYPE PARALLEL A

GENERAL NOTES

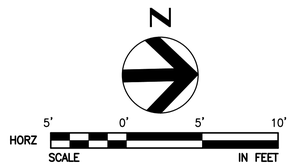
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND ELEVATIONS ARE IN FEET.
2. ALL ELEVATIONS ARE TO THE TOP OF FINISHED SURFACE.
3. UNLESS OTHERWISE NOTED, SPOT ELEVATIONS LOCATED AT FACE OF CURB ARE FLOWLINE ELEVATIONS.
4. SEE WSDOT STD. PLAN F-40.12-03 FOR PARALLEL CURB RAMP DETAILS.
5. SEE WSDOT STD. PLAN F-40.15-04 FOR PERPENDICULAR CURB RAMP DETAILS.
6. SEE WSDOT STD. PLAN F-40.16-03 FOR SINGLE DIRECTION CURB RAMP DETAILS.
7. SEE DW SHEETS FOR DRIVEWAY GRADING DETAILS.
8. SEE PV SHEETS FOR CURB AND SIDEWALK SET-OUT DETAILS NOT SHOWN ON THIS SHEET.
9. SEE IG SHEETS FOR CURB RETURN FLOW LINE GRADING DETAILS.

LEGEND

- CEMENT CONCRETE SIDEWALK PAVEMENT
- CEMENT CONCRETE DRIVEWAY PAVEMENT
- ASPHALT PAVEMENT – OVERLAY
- ASPHALT PAVEMENT – FULL DEPTH
- LANDSCAPING AREA (TOPSOIL AND SEED)
- GRAVEL
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (WHITE)

EL = ELEVATION

EX = EXISTING



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

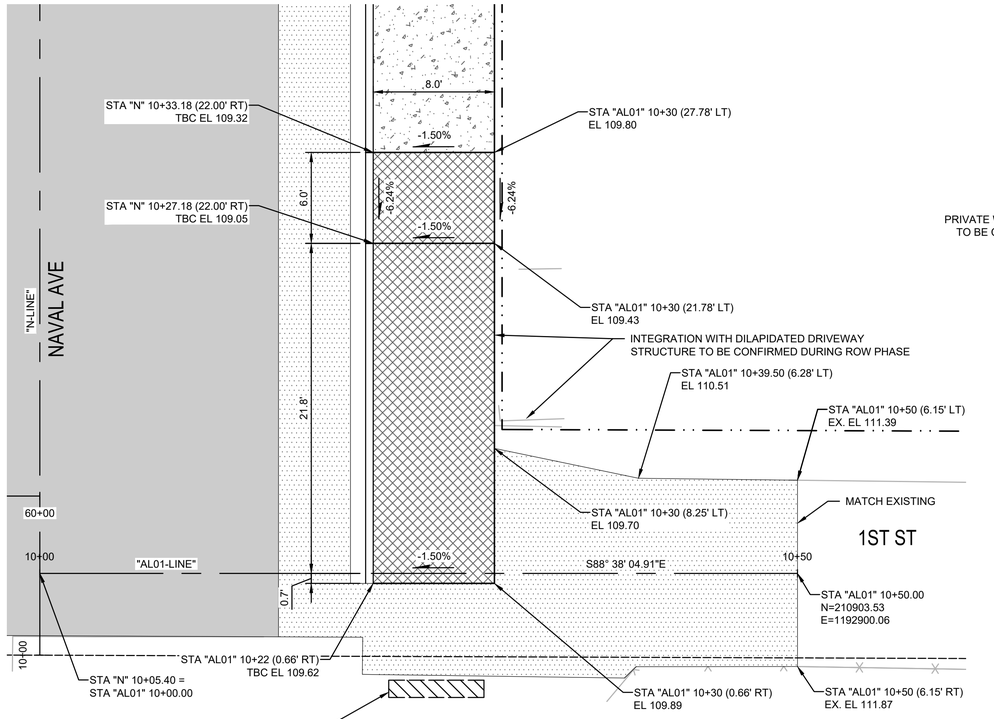
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *J. MCGLAMERY* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

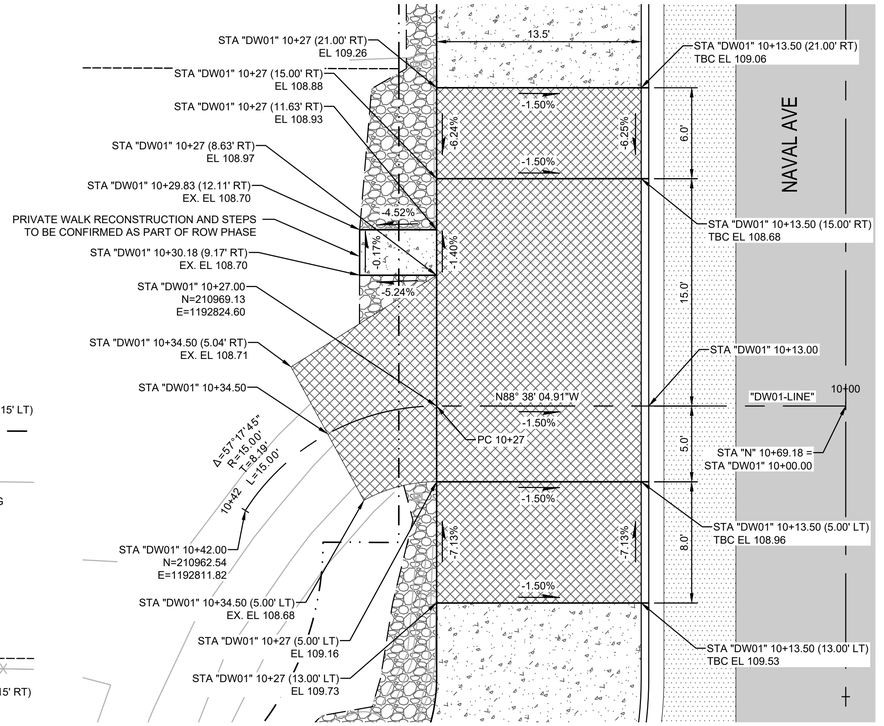
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CURB RAMP GRADING DETAILS

PN: PROJNUM

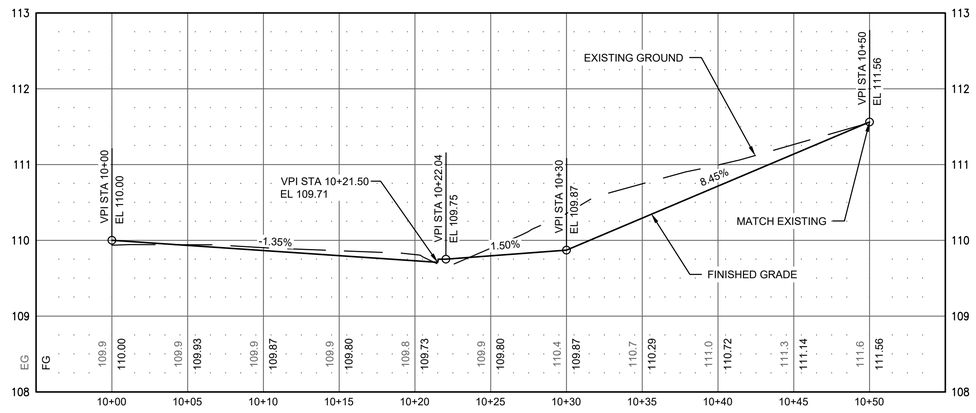
CR17
SHEET
86
OF
179



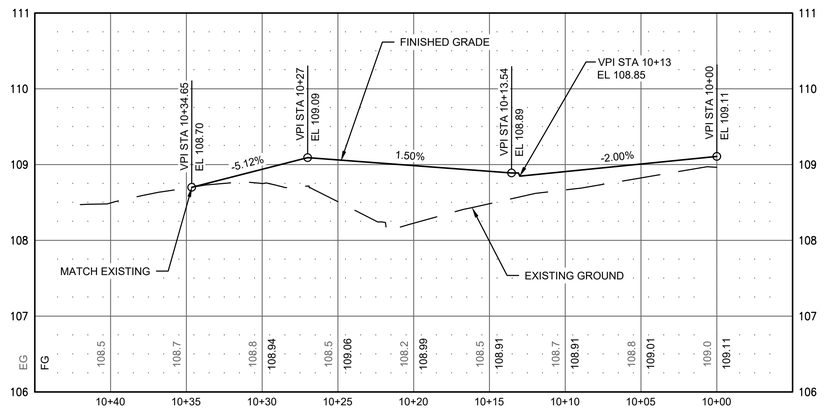
ALLEYWAY AL-01
TYPE III - COMMERCIAL



DRIVEWAY DW-01
TYPE II - RESIDENTIAL



ALLEYWAY AL-01 PROFILE



DRIVEWAY DW-01 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA
- EL = ELEVATION
- EX = EXISTING
- TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

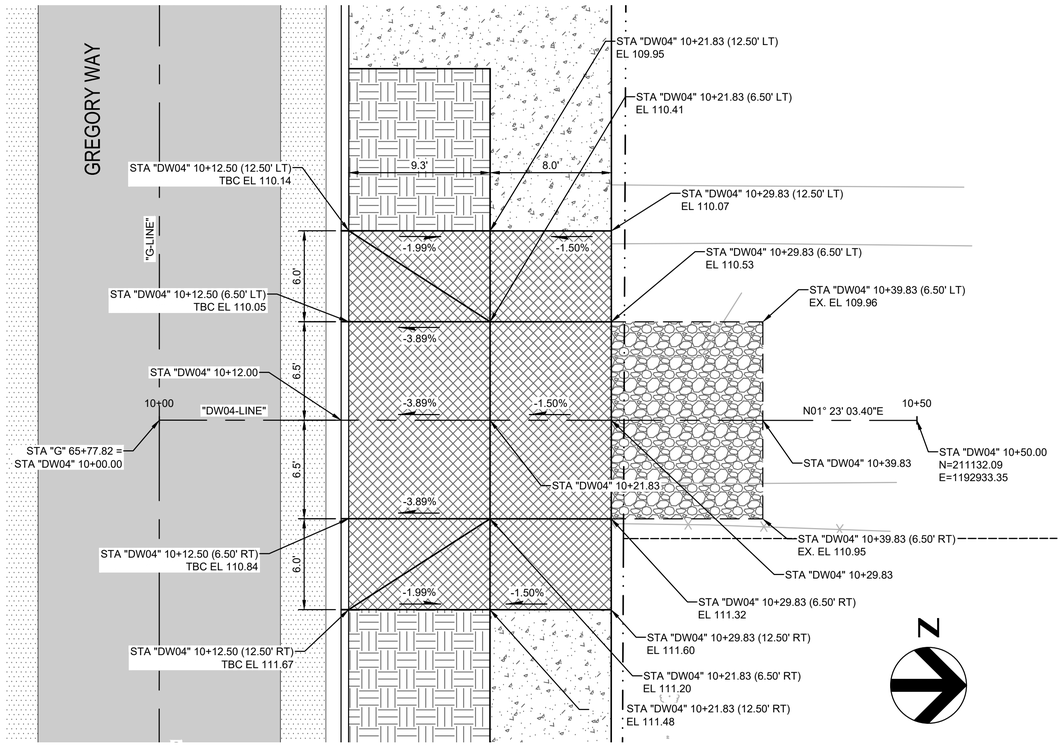
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

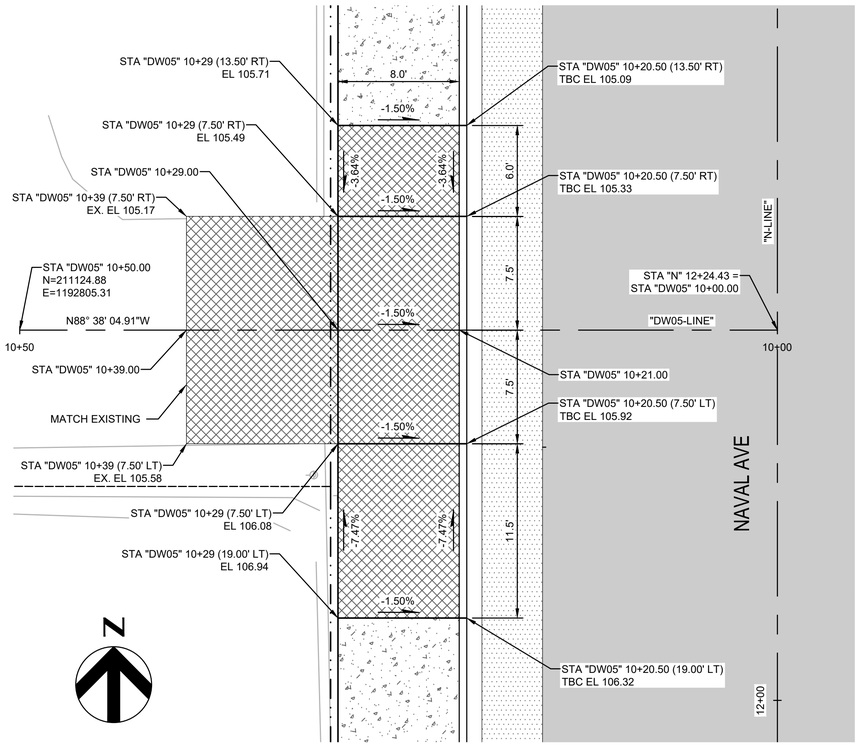
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW1
SHEET
87
OF
179



DRIVEWAY DW-04
TYPE I - RESIDENTIAL



DRIVEWAY DW-05
TYPE III - RESIDENTIAL

GENERAL NOTES

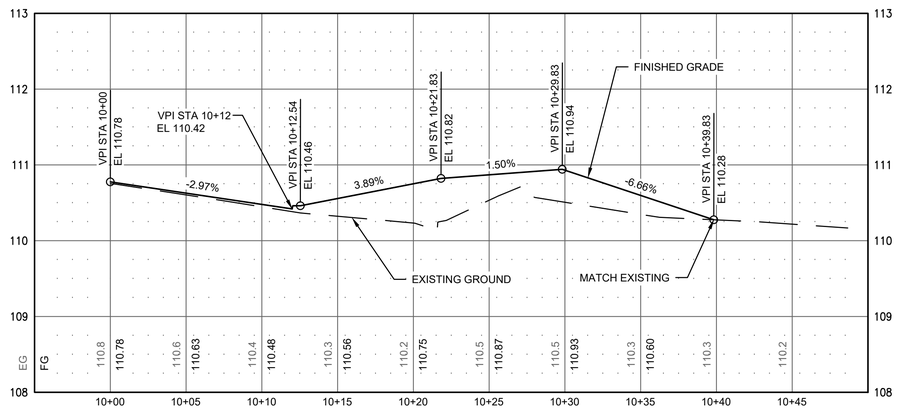
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

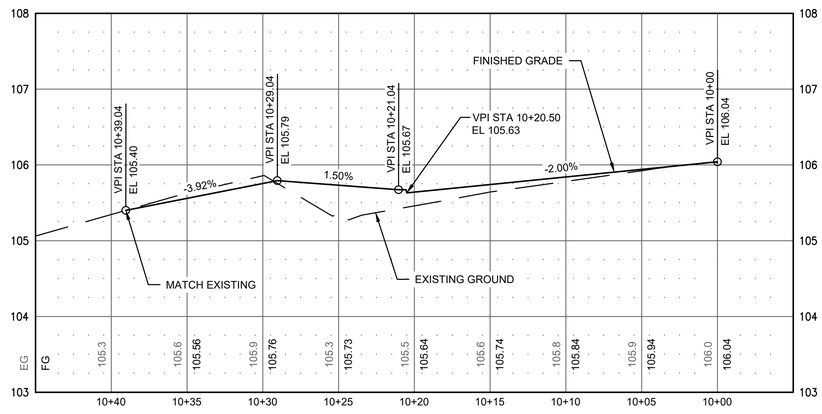
- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

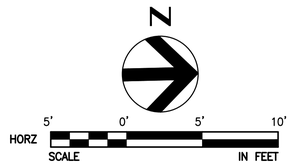
NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



DRIVEWAY DW-04 PROFILE



DRIVEWAY DW-05 PROFILE



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO. _____

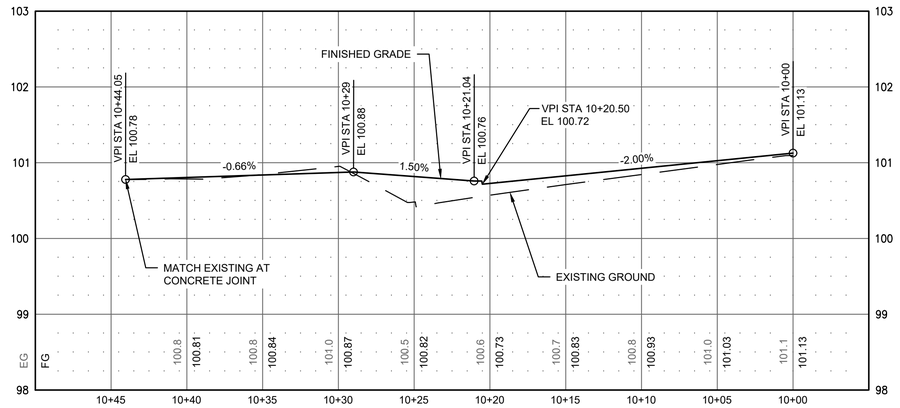
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

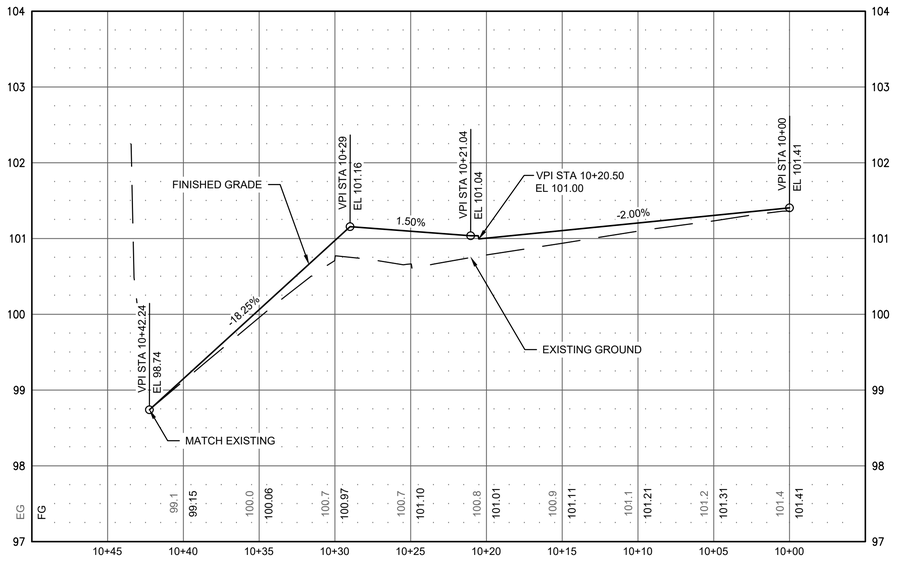
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW2
SHEET
88
OF
179

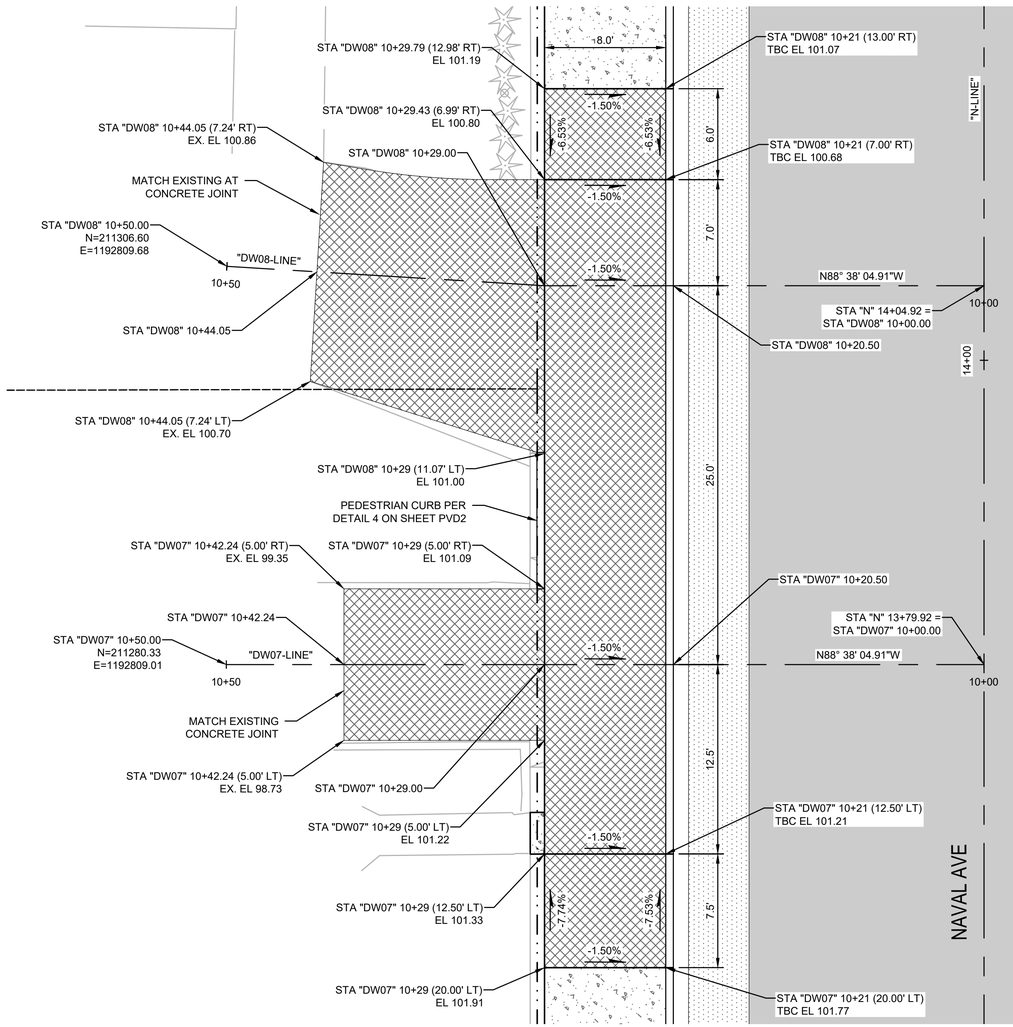


DRIVEWAY DW-08 PROFILE



DRIVEWAY DW-07 PROFILE

PROFILE TO BE REFINED AS PART OF ROW PHASE. BOTH EXISTING AND PROPOSED PROFILES HAVE GROUND CLEARANCE ISSUES.



DRIVEWAY DW-07 & DW-08

TYPE III - COMMERCIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
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10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
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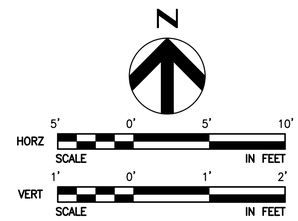
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

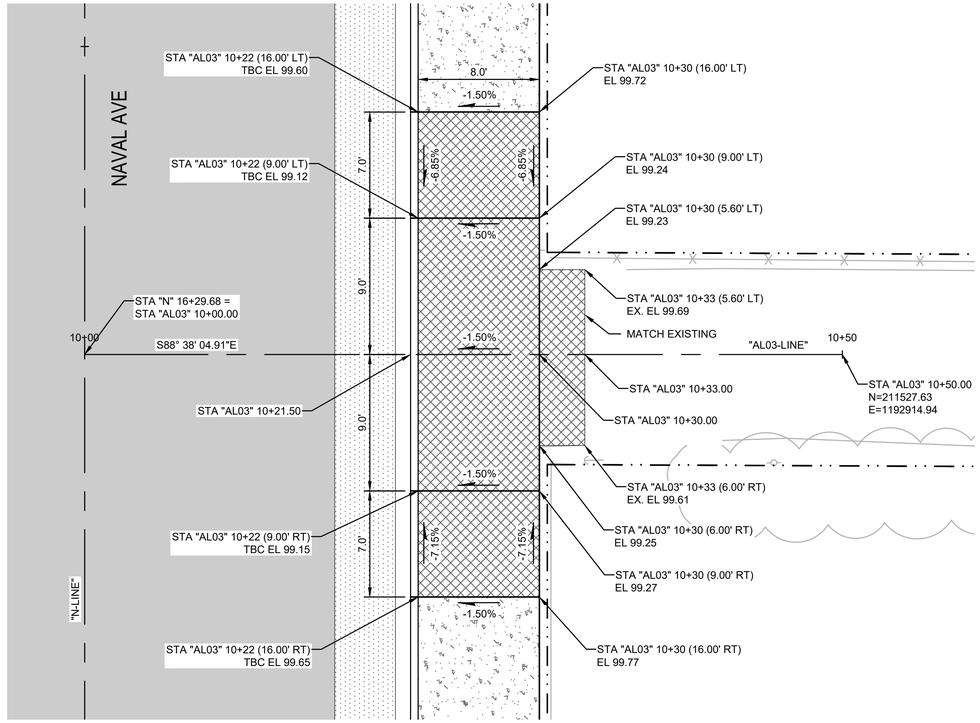
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

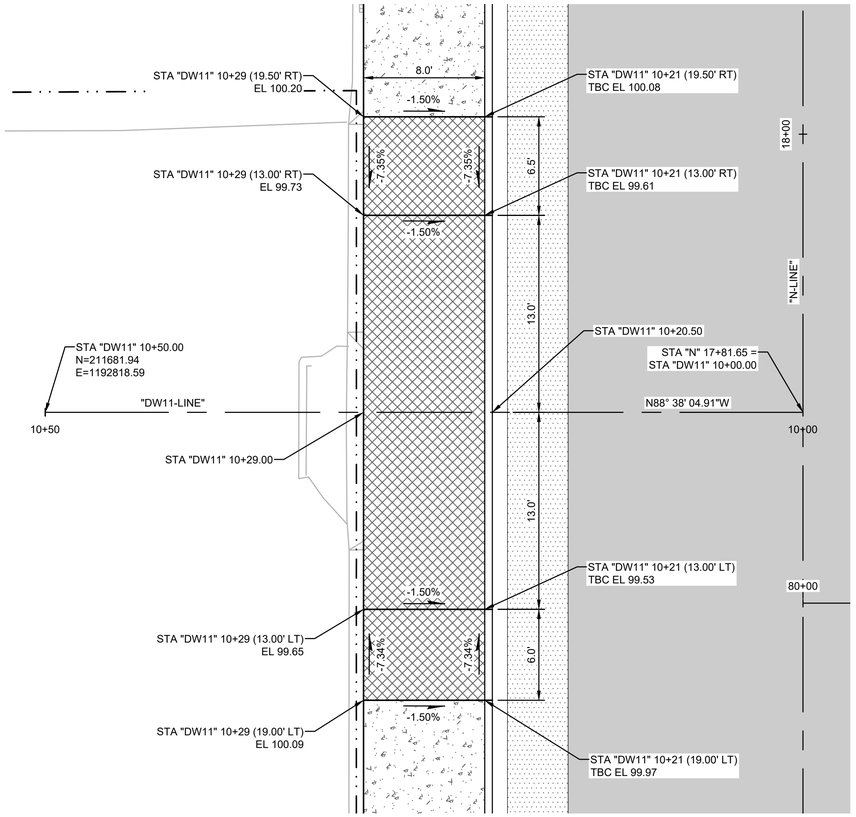
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

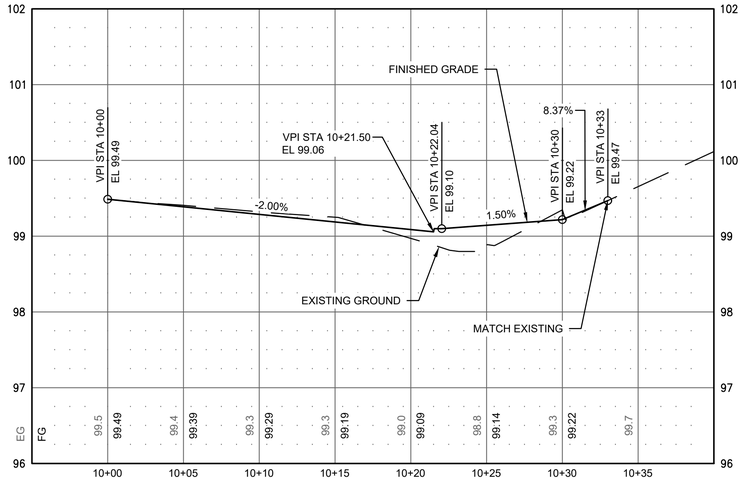
DW3
SHEET
89
OF
179



ALLEYWAY AL-03
TYPE III - COMMERCIAL



DRIVEWAY DW-11
TYPE III - COMMERCIAL



ALLEYWAY AL-03 PROFILE

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
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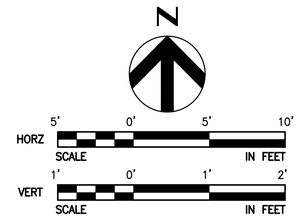
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

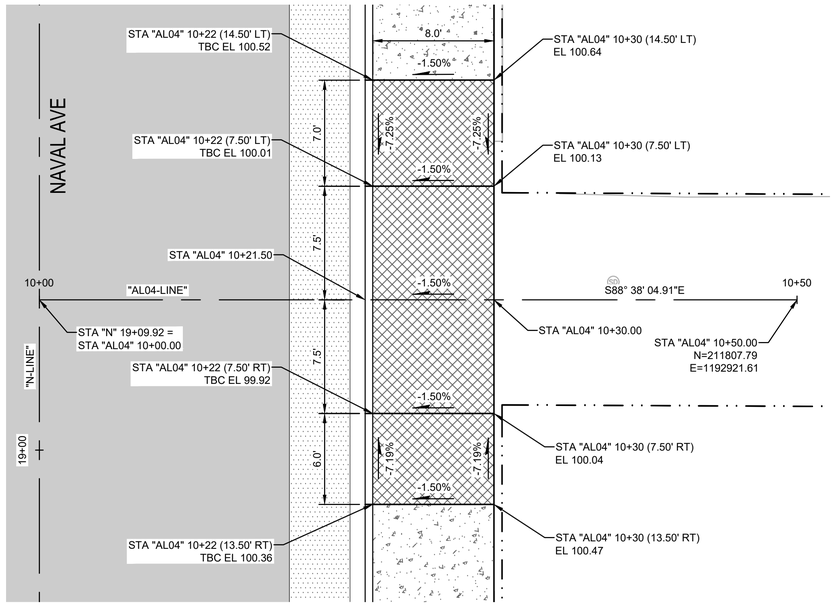
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

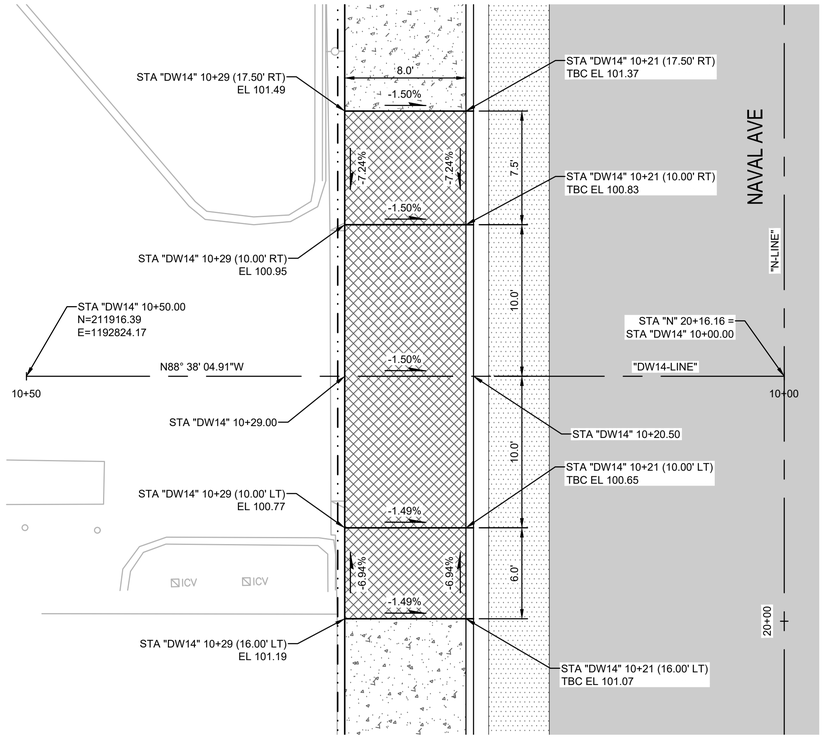
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW4
SHEET
90
OF
179



ALLEYWAY AL-04
TYPE III - COMMERCIAL



DRIVEWAY DW-14
TYPE III - COMMERCIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
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8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
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LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
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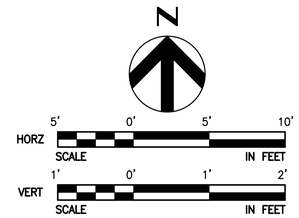
DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

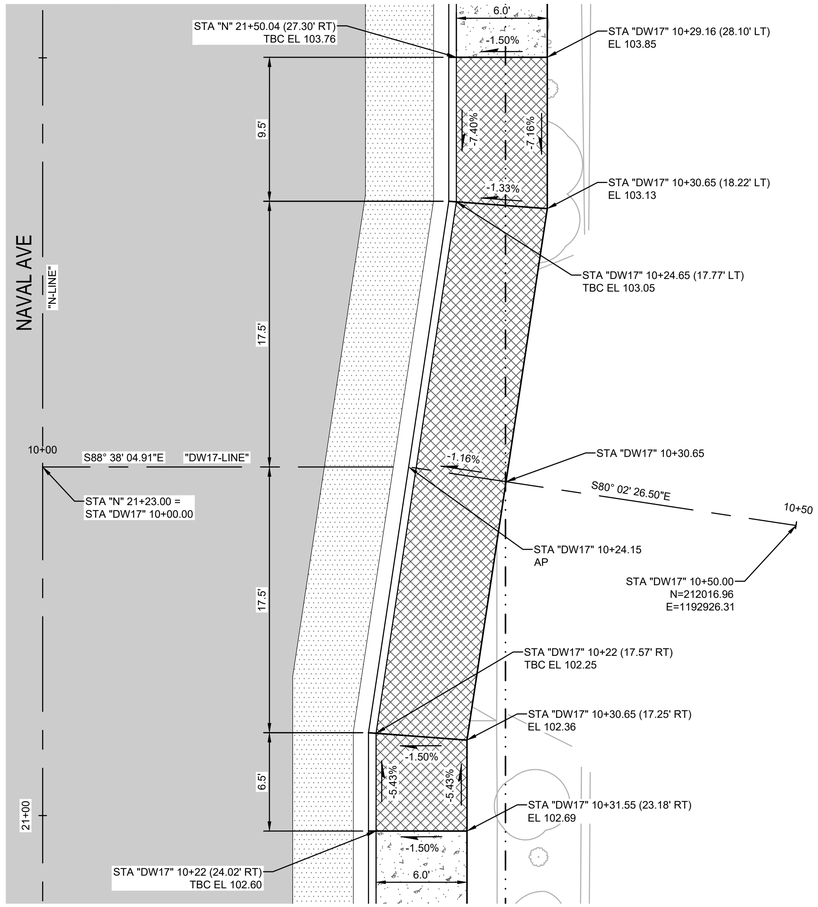
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

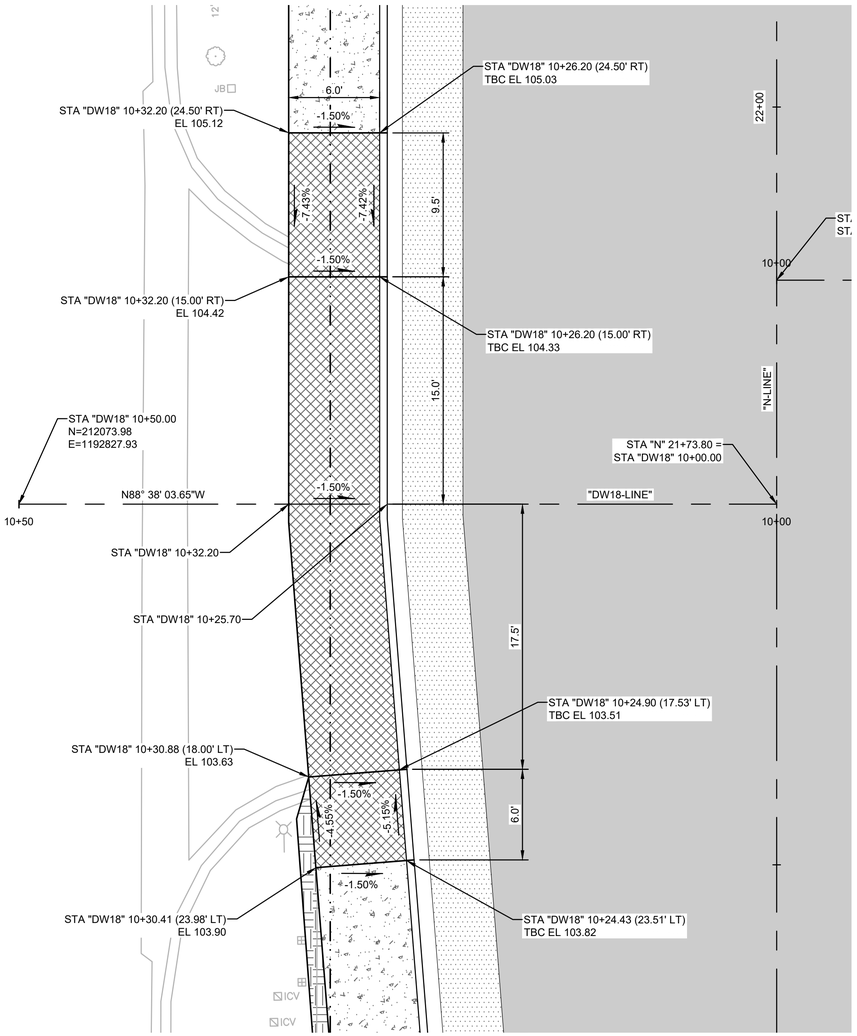
DW5
SHEET
91
OF
179



DRIVEWAY DW-17

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-18

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
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13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
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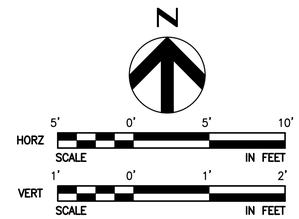

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
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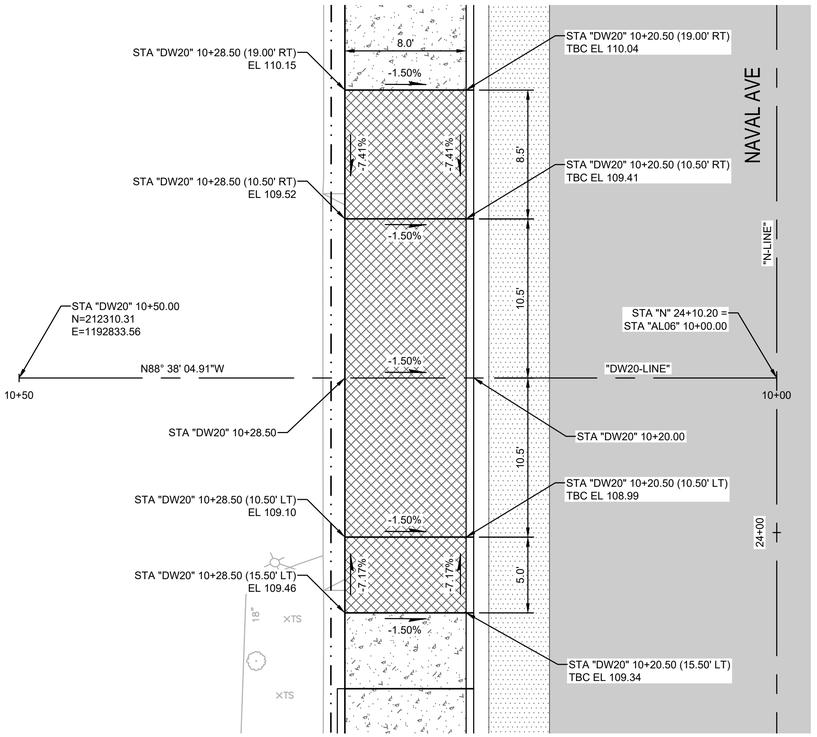
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN. PROJNUM

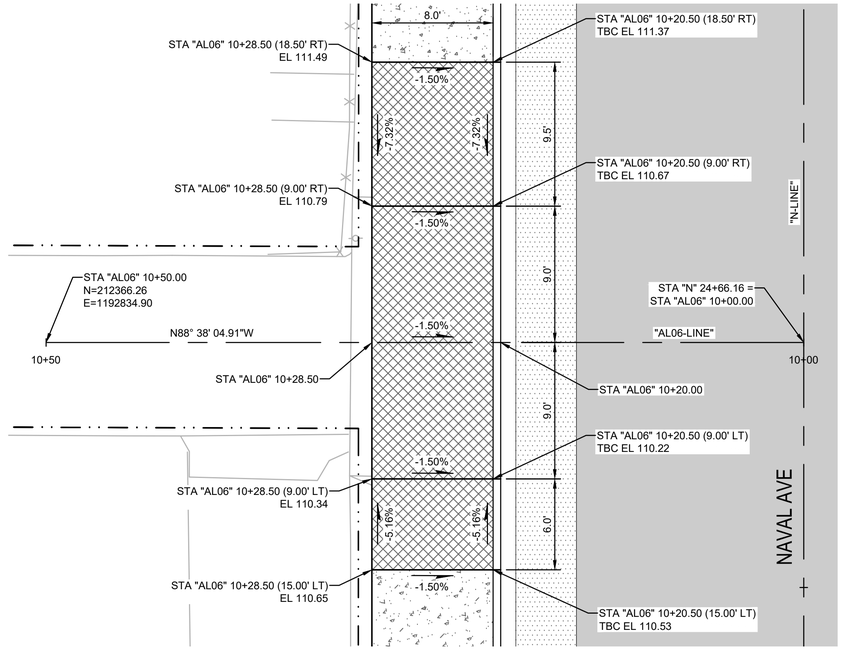
DW6
SHEET
92
OF
179



DRIVEWAY DW-20

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



ALLEYWAY AL-06

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
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13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

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EX = EXISTING
TBC = TOP BACK OF CURB

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N

HORZ SCALE 5' 0' 5' 10' IN FEET

VERT SCALE 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
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DRAWN BY: T. NAPIORKOWSKI DATE ---
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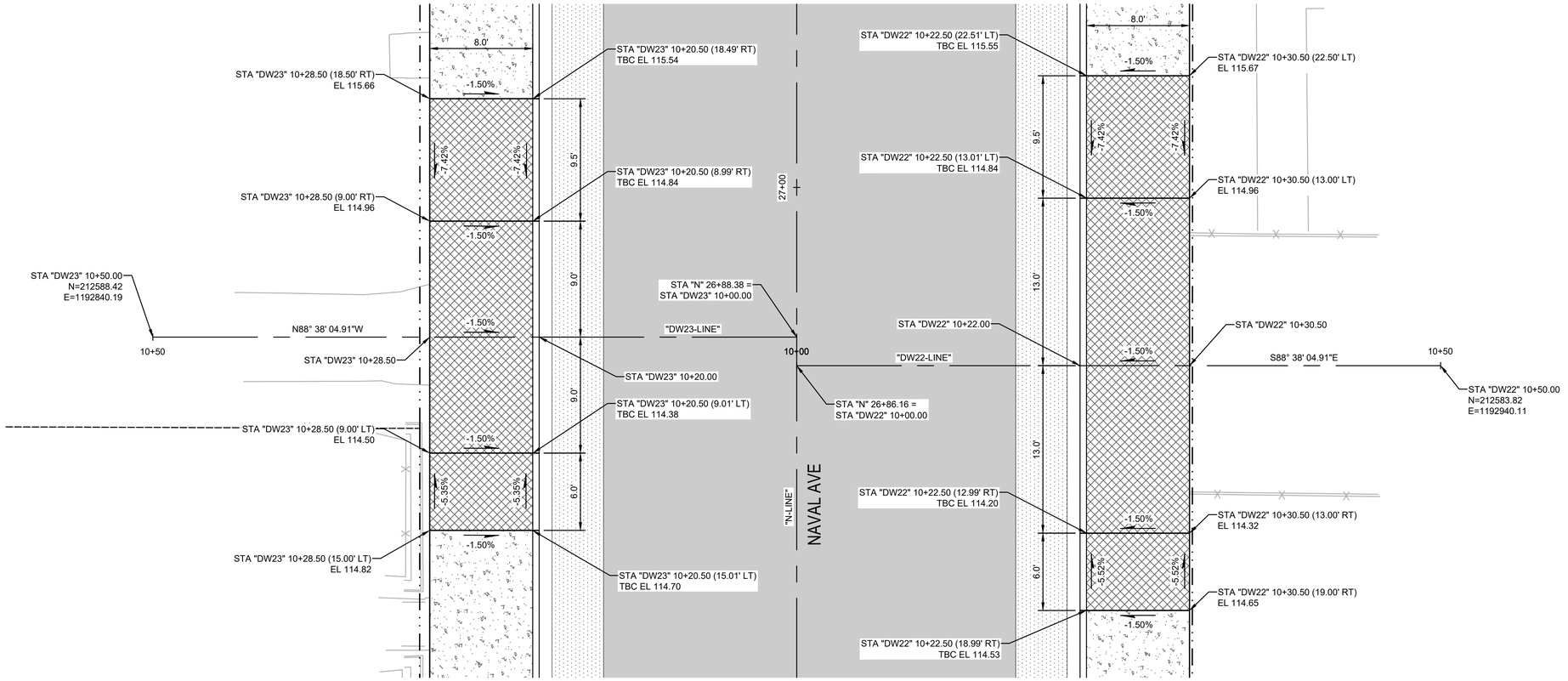
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW7
SHEET
93
OF
179



DRIVEWAY DW-22 & DW-23

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE IN FEET: 5' 0' 5' 10'

VERT SCALE IN FEET: 1' 0' 1' 2'

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

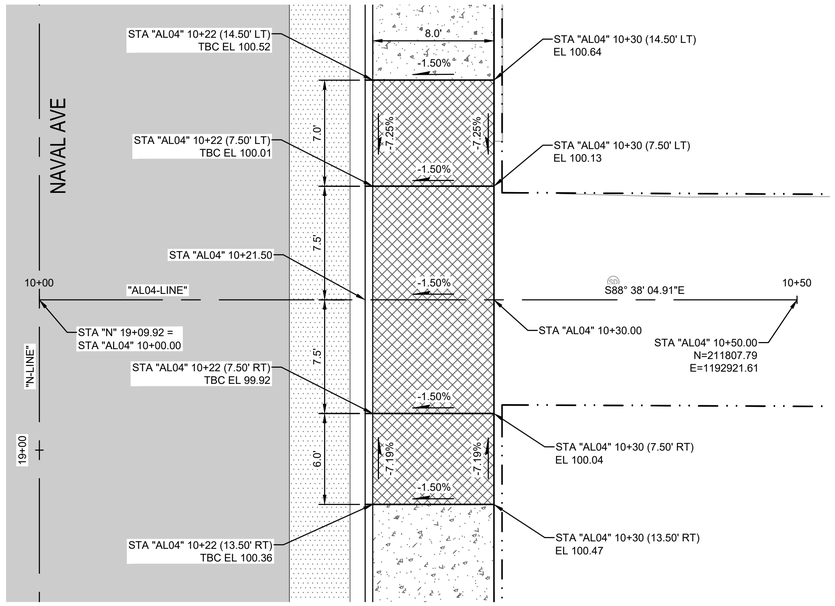
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

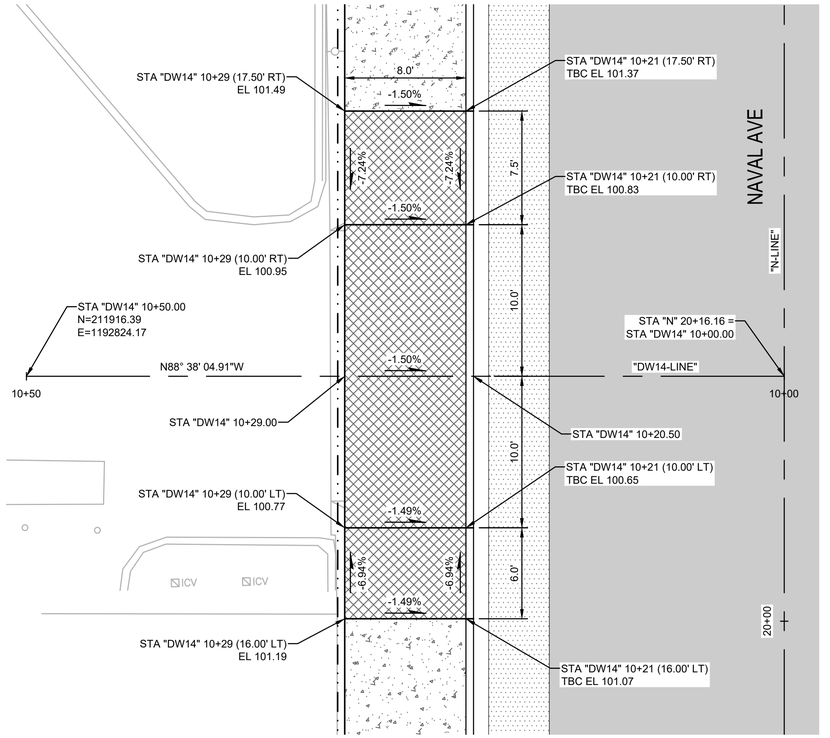
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW8
SHEET
94
OF
179



ALLEYWAY AL-04
TYPE III - COMMERCIAL



DRIVEWAY DW-14
TYPE III - COMMERCIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

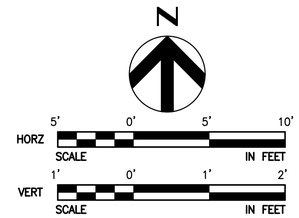
- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

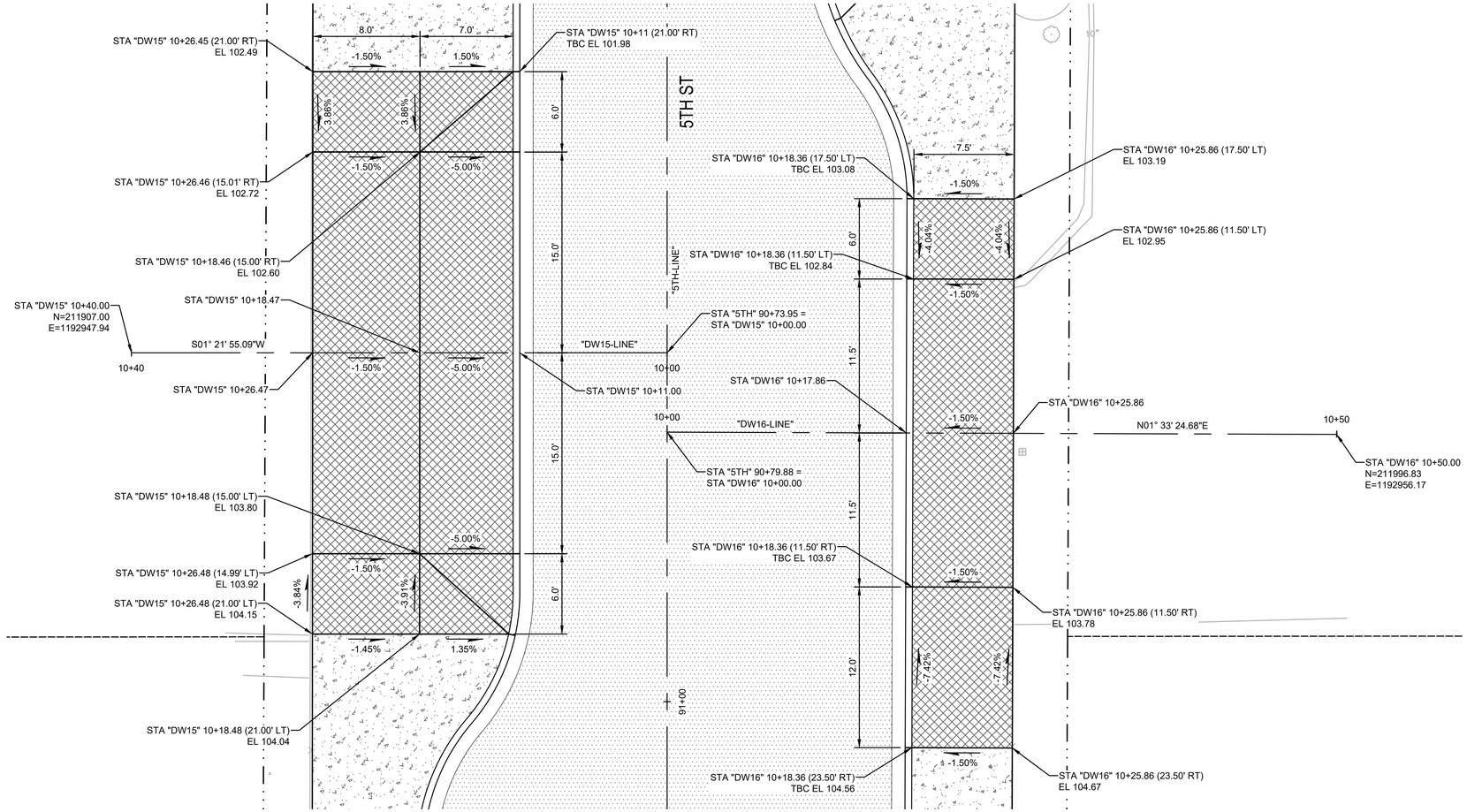
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW5
SHEET
91
OF
179



DRIVEWAY DW15
TYPE II - COMMERCIAL

DRIVEWAY DW-16
TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE IN FEET: 5' 0' 5' 10'

VERT SCALE IN FEET: 1' 0' 1' 2'

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

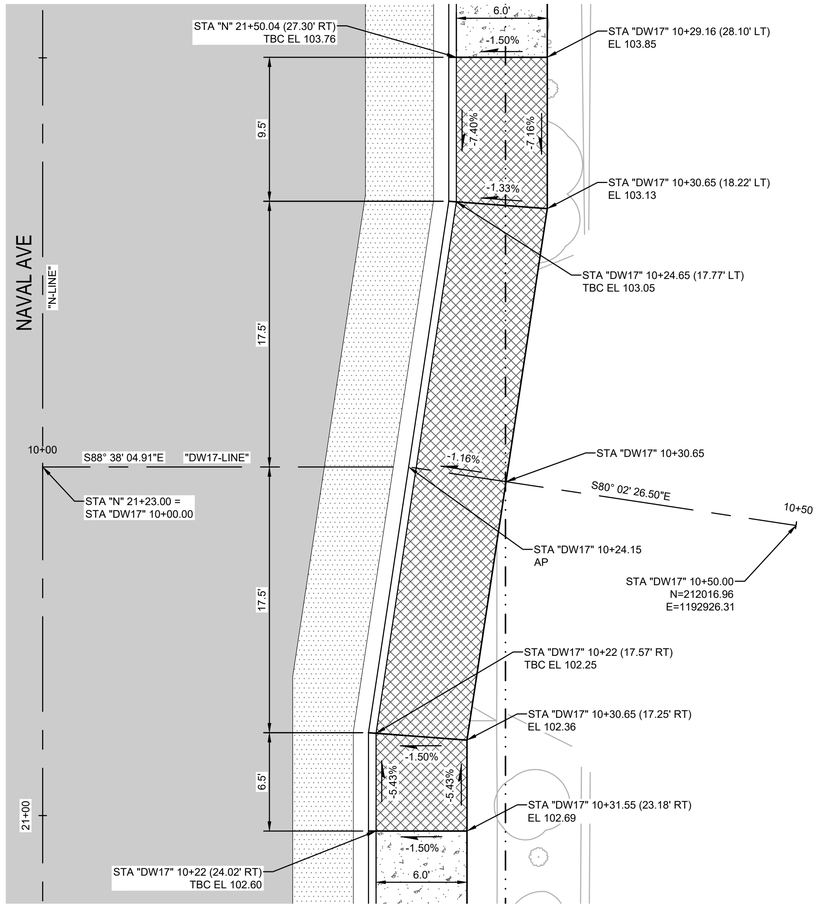
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

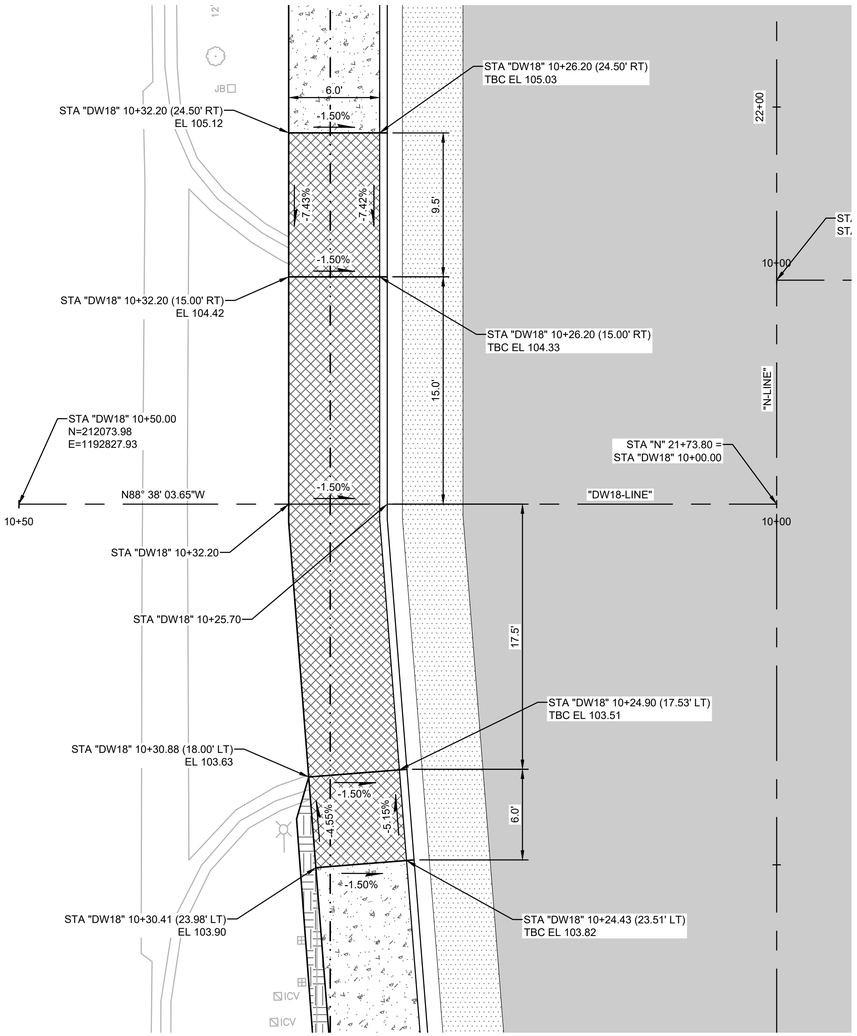
DW10
SHEET
96
OF
179



DRIVEWAY DW-17

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-18

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

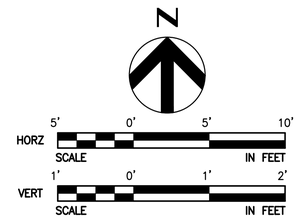
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

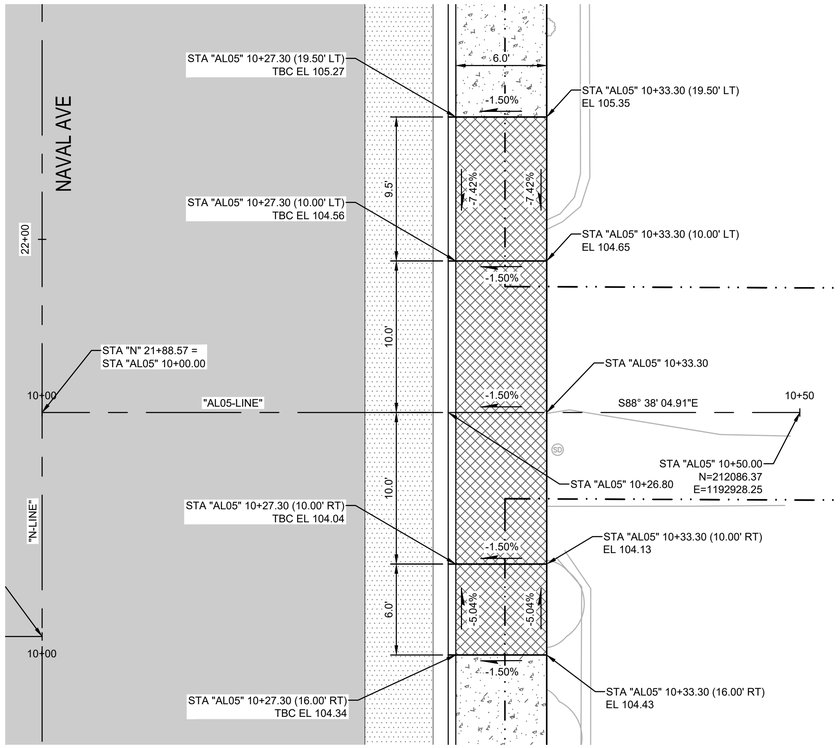
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

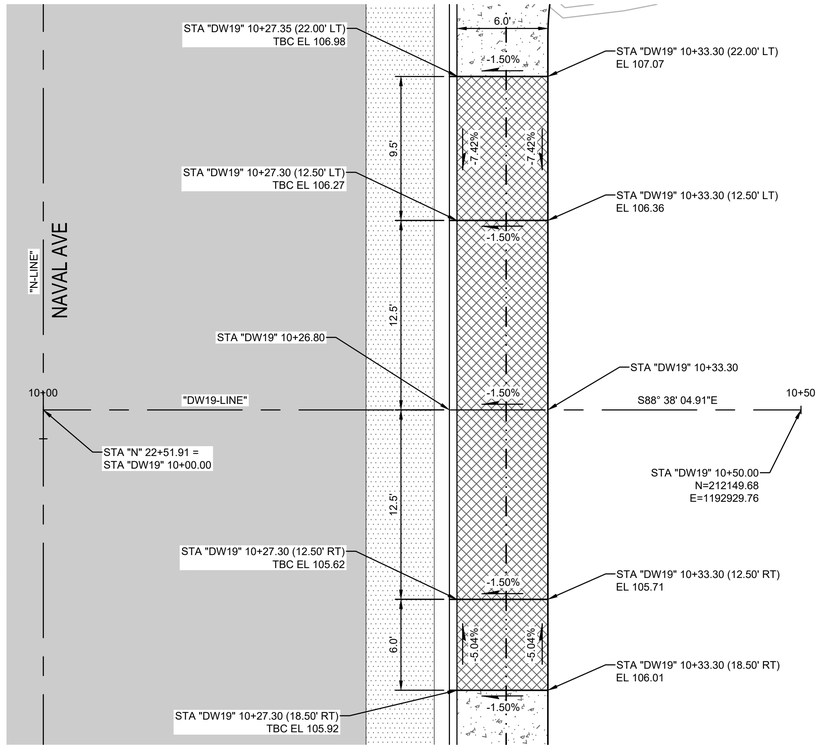
PN. PROJNUM

DW6
SHEET
92
OF
179



ALLEYWAY AL-05
TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-19
TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

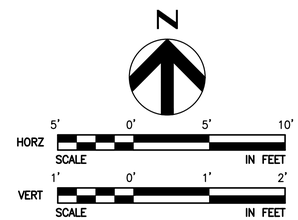
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

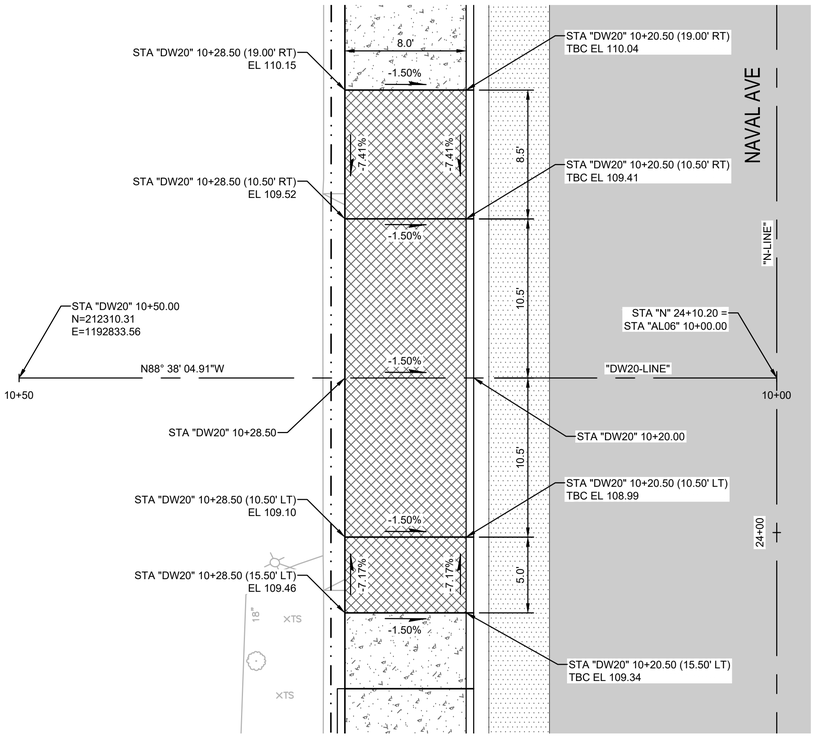
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

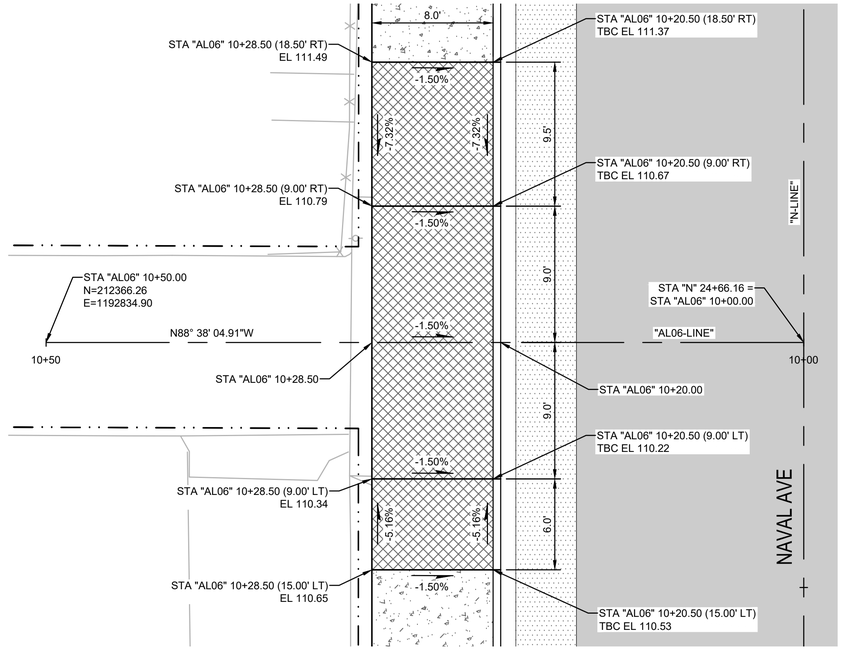
DW12
SHEET
98
OF
179



DRIVEWAY DW-20

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



ALLEYWAY AL-06

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE 5' 0' 5' 10' IN FEET

VERT SCALE 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

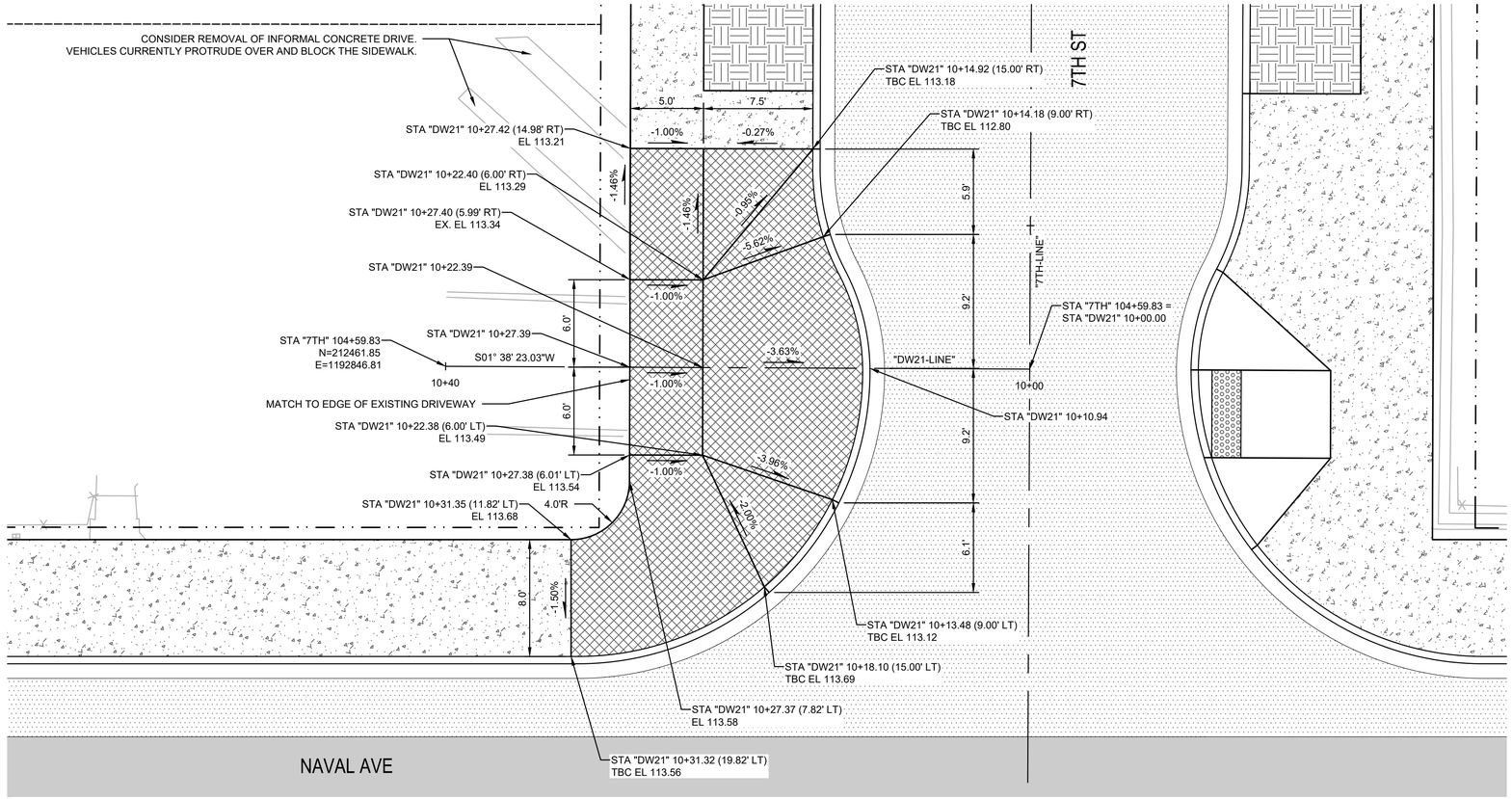
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW7
SHEET
93
OF
179



DRIVEWAY DW-21

TYPE II - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE 5' 0' 5' 10' IN FEET

VERT SCALE 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

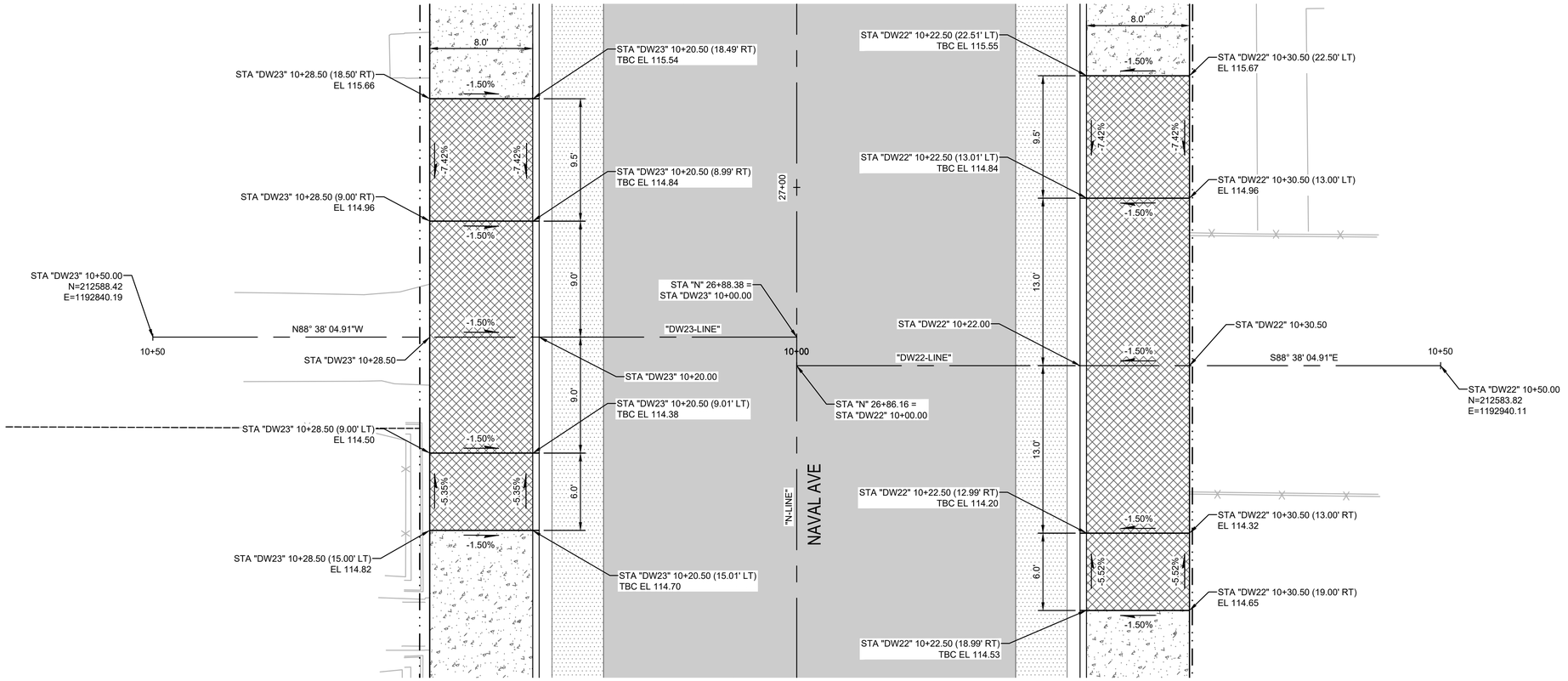
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW14
SHEET
100
OF
179



DRIVEWAY DW-22 & DW-23

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE IN FEET: 5' 0' 5' 10'

VERT SCALE IN FEET: 1' 0' 1' 2'

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

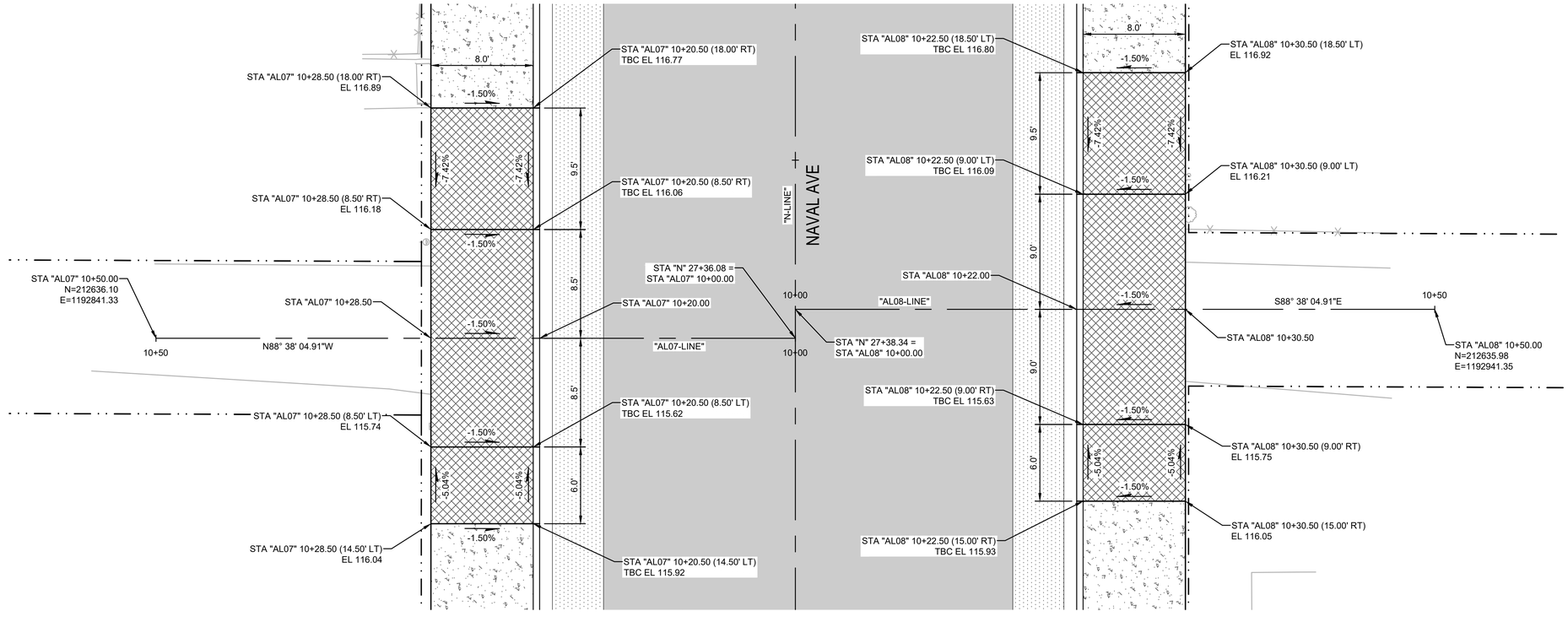
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW8
SHEET
94
OF
179



ALLEYWAY AL-07 & AL-08

TYPE III - COMMERCIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE IN FEET: 5' 0' 5' 10'

VERT SCALE IN FEET: 1' 0' 1' 2'

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

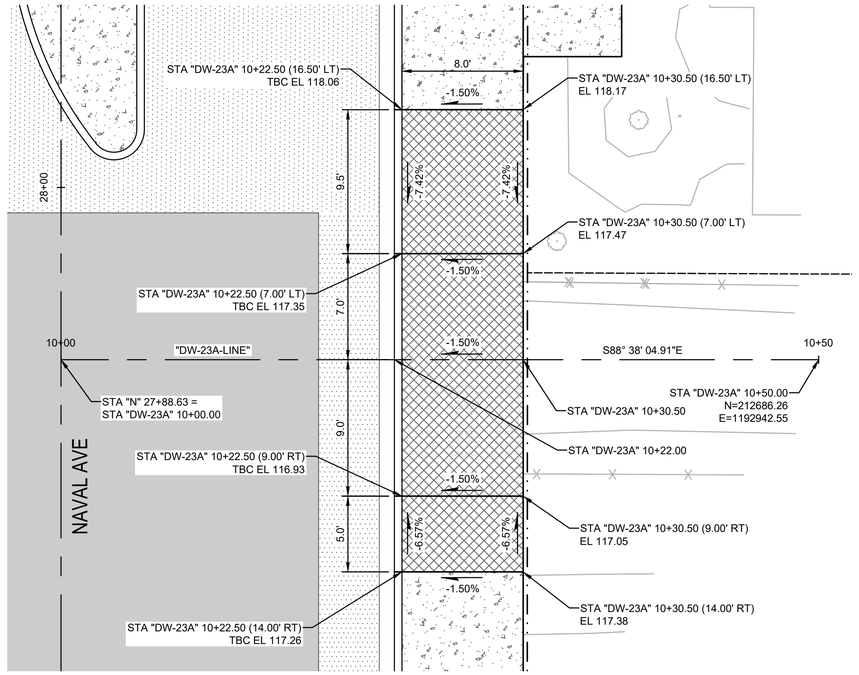
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

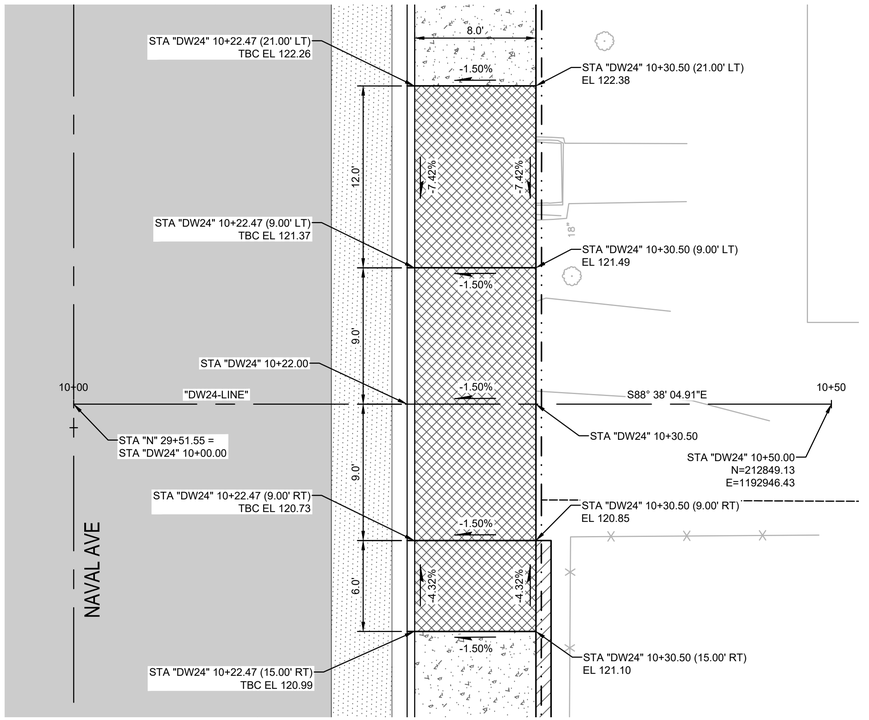
DW16
SHEET
102
OF
179



DRIVEWAY DW-23A

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-24

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
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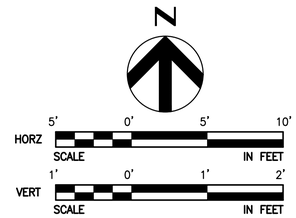
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

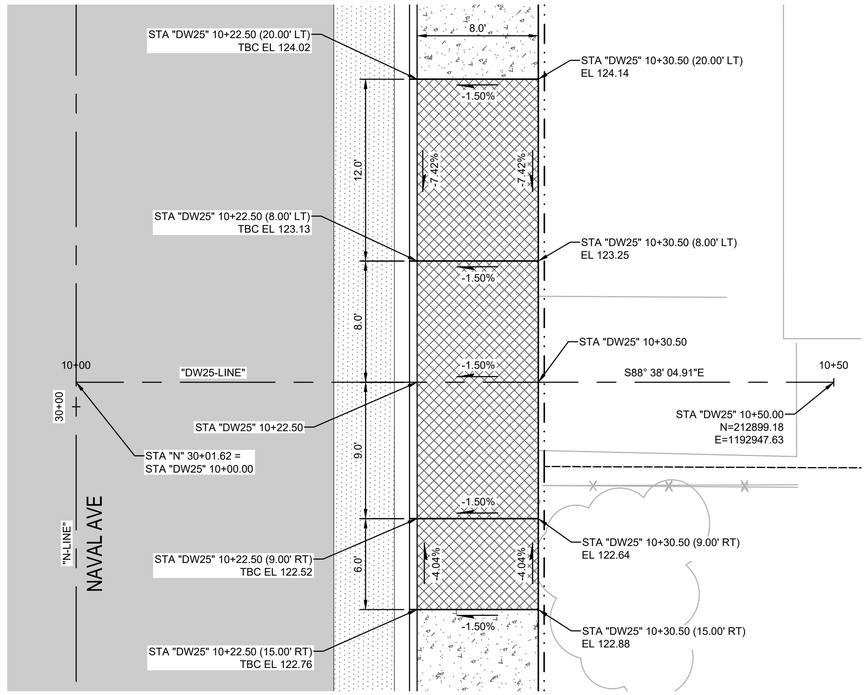
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

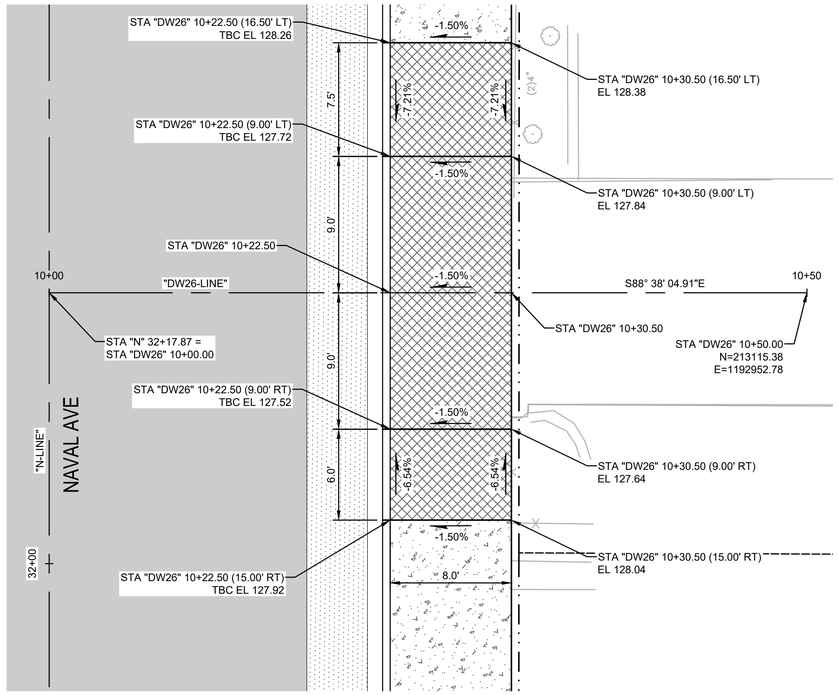
PN: PROJNUM

DW17
SHEET
103
OF
179



DRIVEWAY DW-25
TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-26
TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
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11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
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13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
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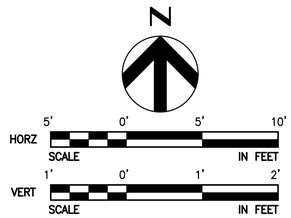


CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

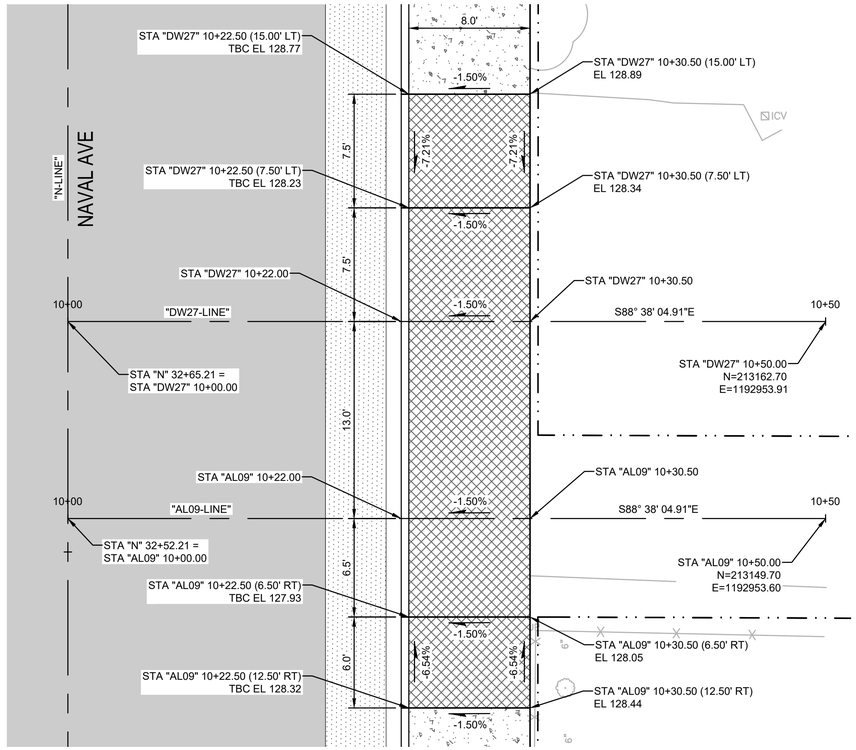
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW18
SHEET
104
OF
179

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-27 & ALLEYWAY AL-09

TYPE III - COMMERCIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
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13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION

EX = EXISTING

TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE 5' 0' 5' 10' IN FEET

VERT SCALE 1' 0' 1' 2' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
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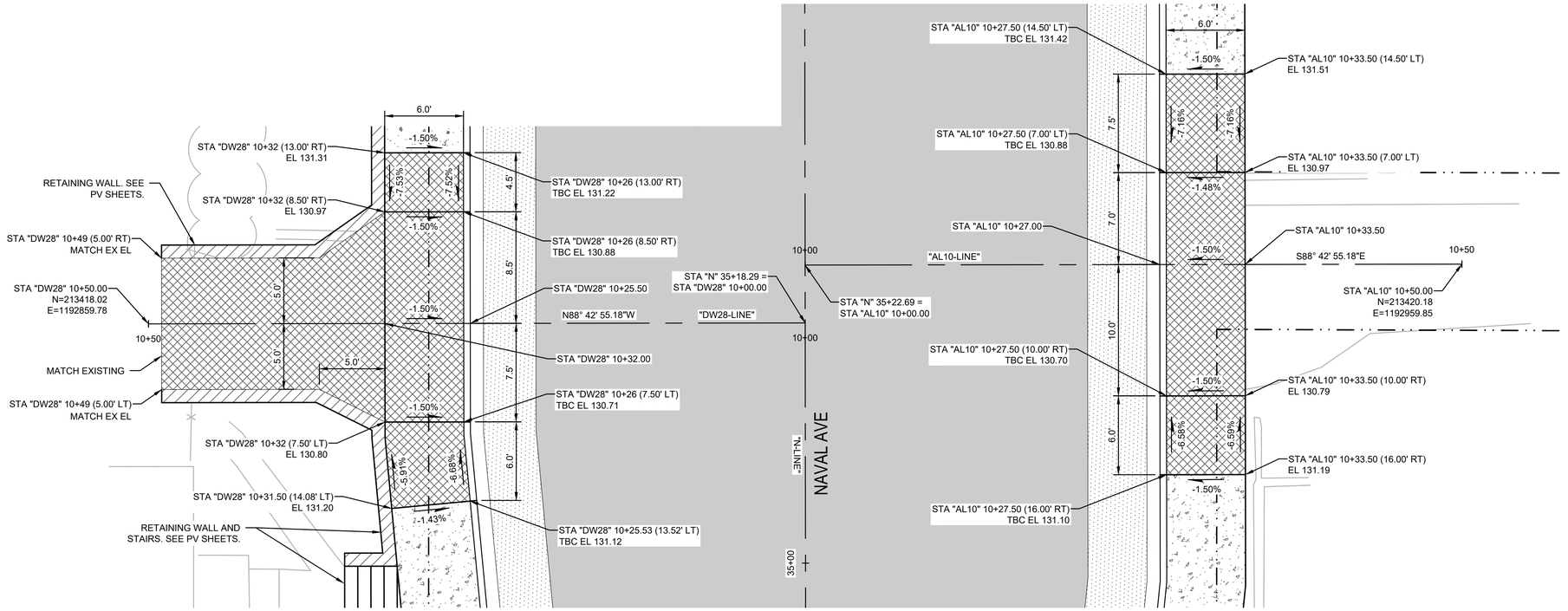
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

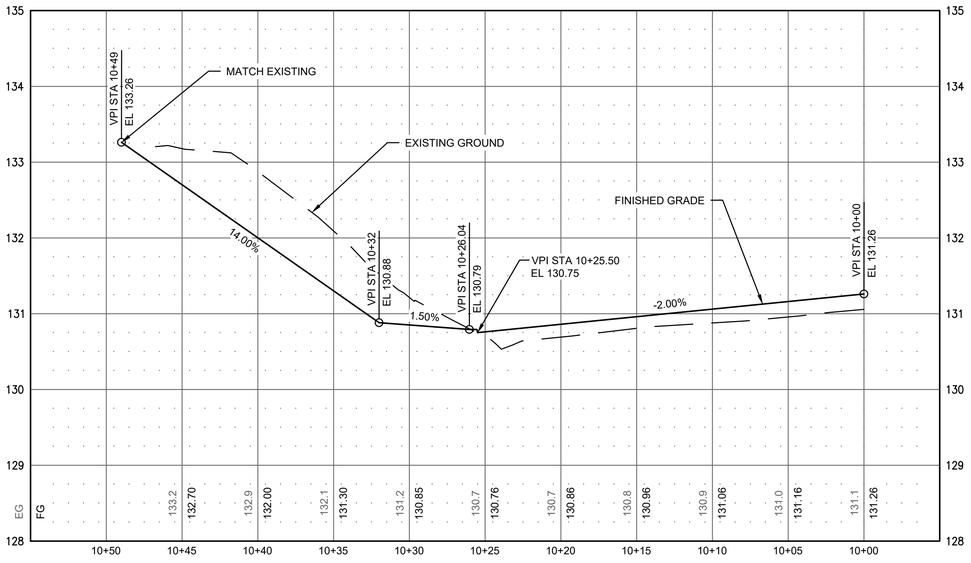
PN: PROJNUM

DW19
SHEET
105
OF
179



DRIVEWAY DW-28
TYPE III - RESIDENTIAL

ALLEYWAY AL-10
TYPE III - COMMERCIAL



DRIVEWAY DW-28 PROFILE

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
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13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
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N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
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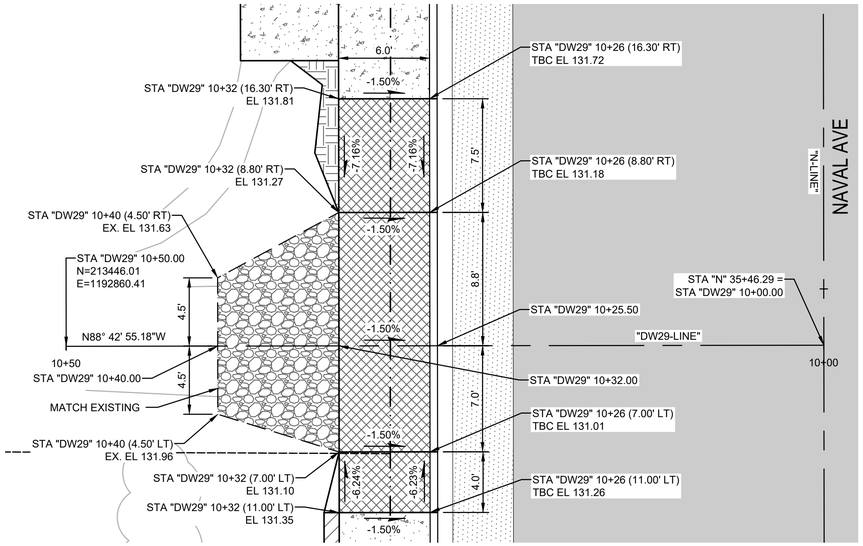
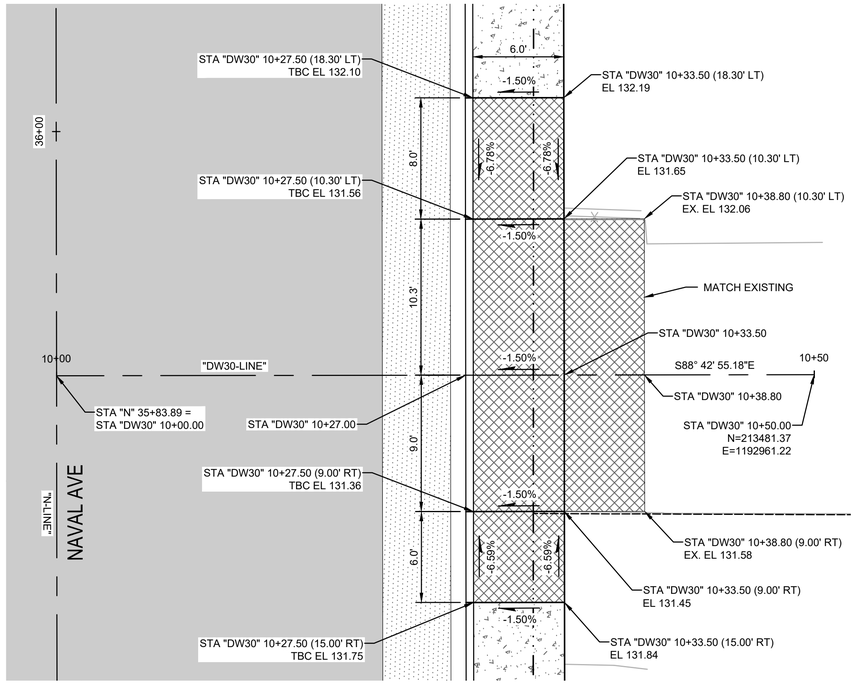
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW20
SHEET
106
OF
179



DRIVEWAY DW-29
TYPE III - RESIDENTIAL



DRIVEWAY DW-30
TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
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6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
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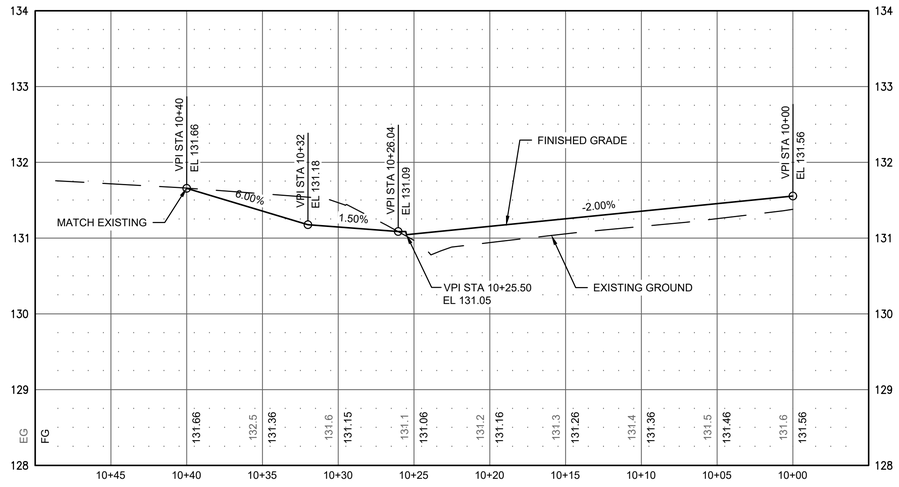
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

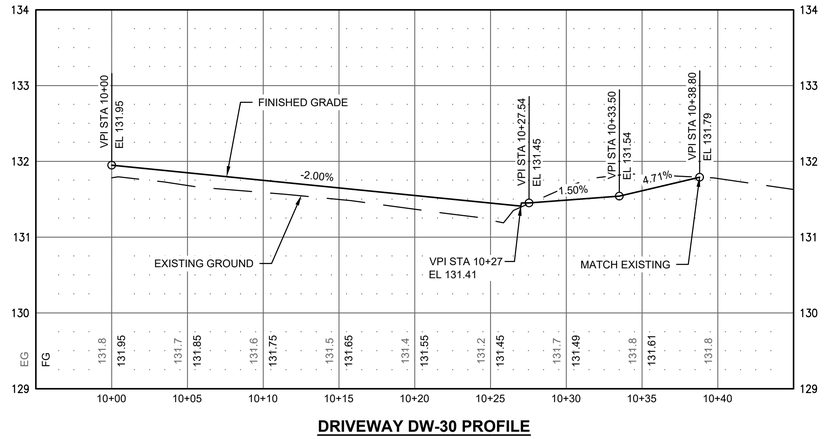
- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

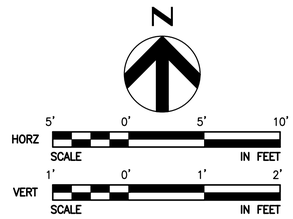
NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



DRIVEWAY DW-29 PROFILE



DRIVEWAY DW-30 PROFILE



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

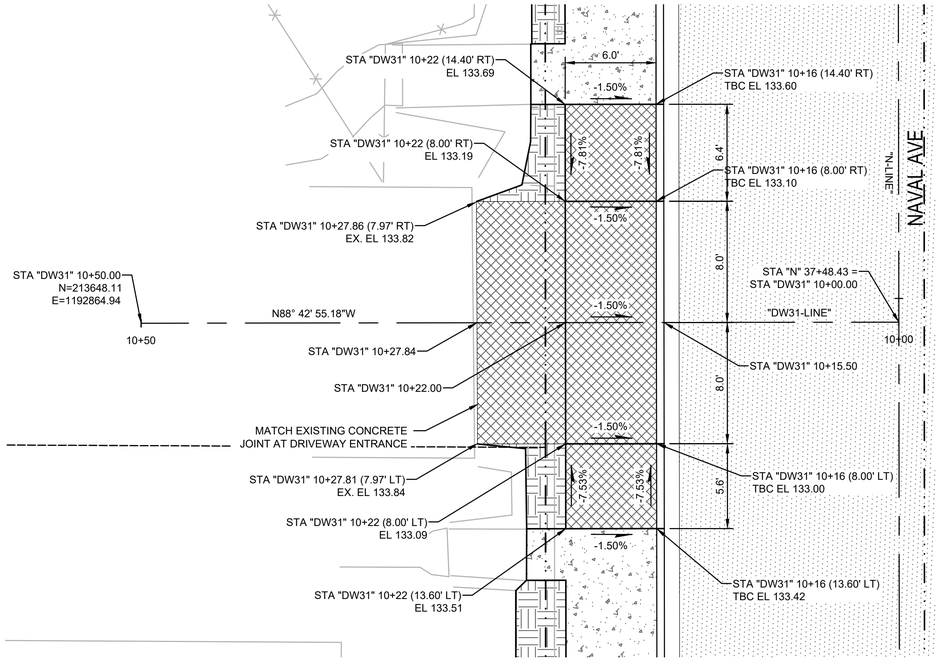
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

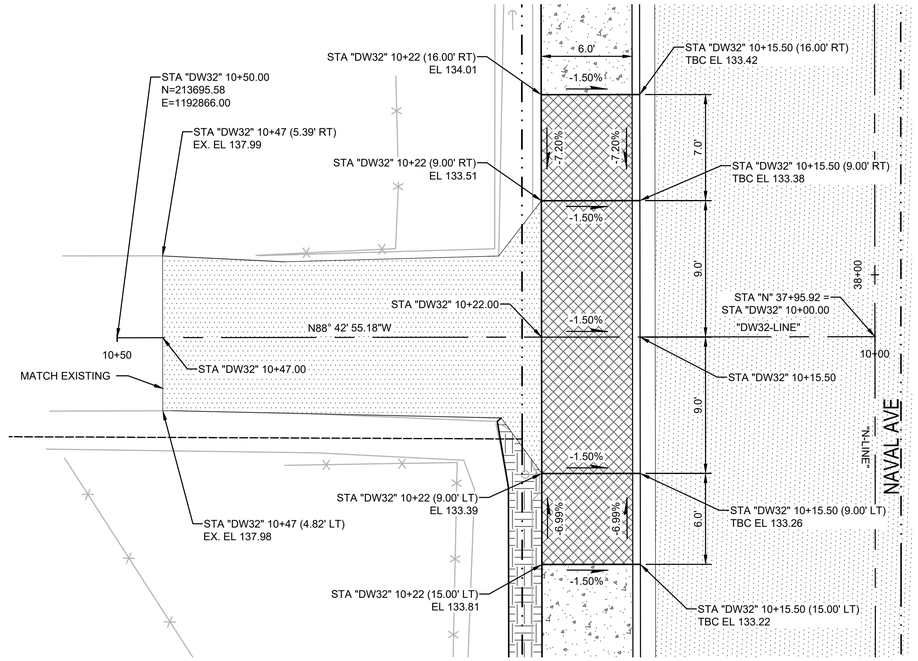
PN: PROJNUM

DW21
SHEET
107
OF
179



DRIVEWAY DW-31

TYPE III - RESIDENTIAL



DRIVEWAY DW-32

TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

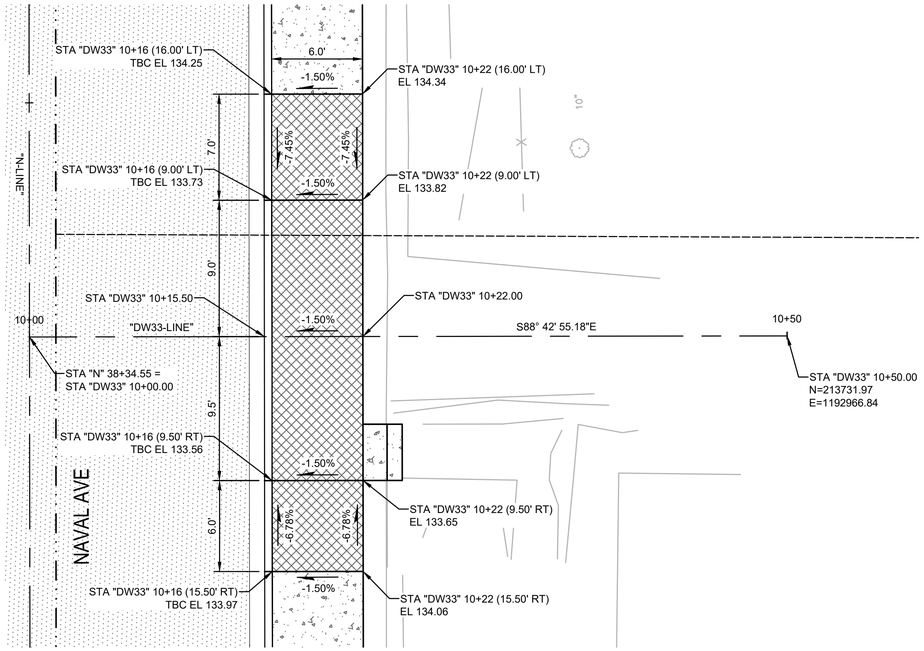
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: T. NAPIORKOWSKI DATE ---
DESIGN BY: T. NAPIORKOWSKI WASH. P.E. # --- DATE ---
CHECKED BY: J. HARPER WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

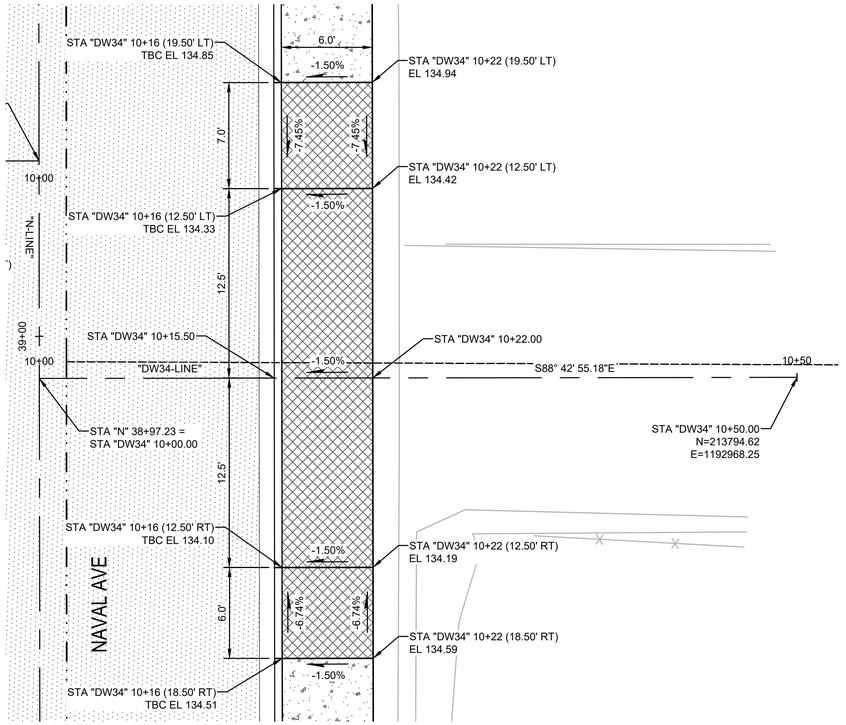
DW22
SHEET
108
OF
179



DRIVEWAY DW-33

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-34

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

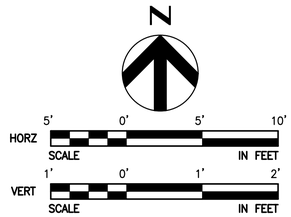
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

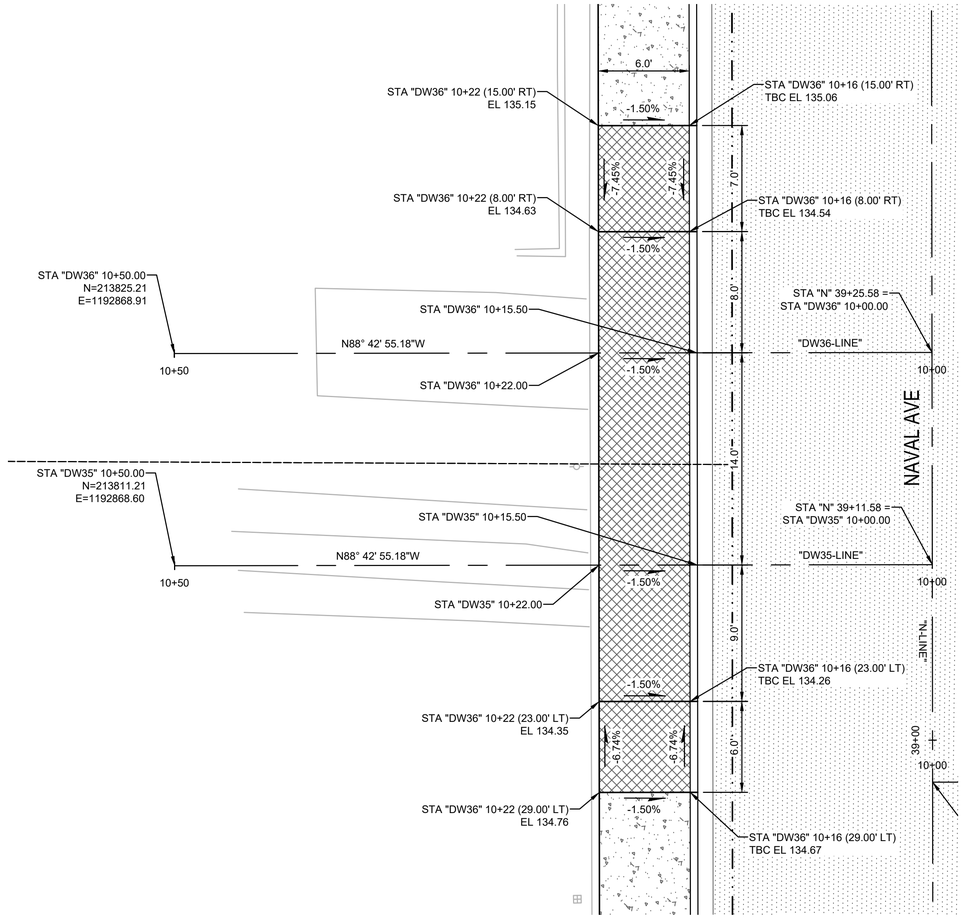
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW23
SHEET
109
OF
179



DRIVEWAY DW-35 & DW-36

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION

EX = EXISTING

TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

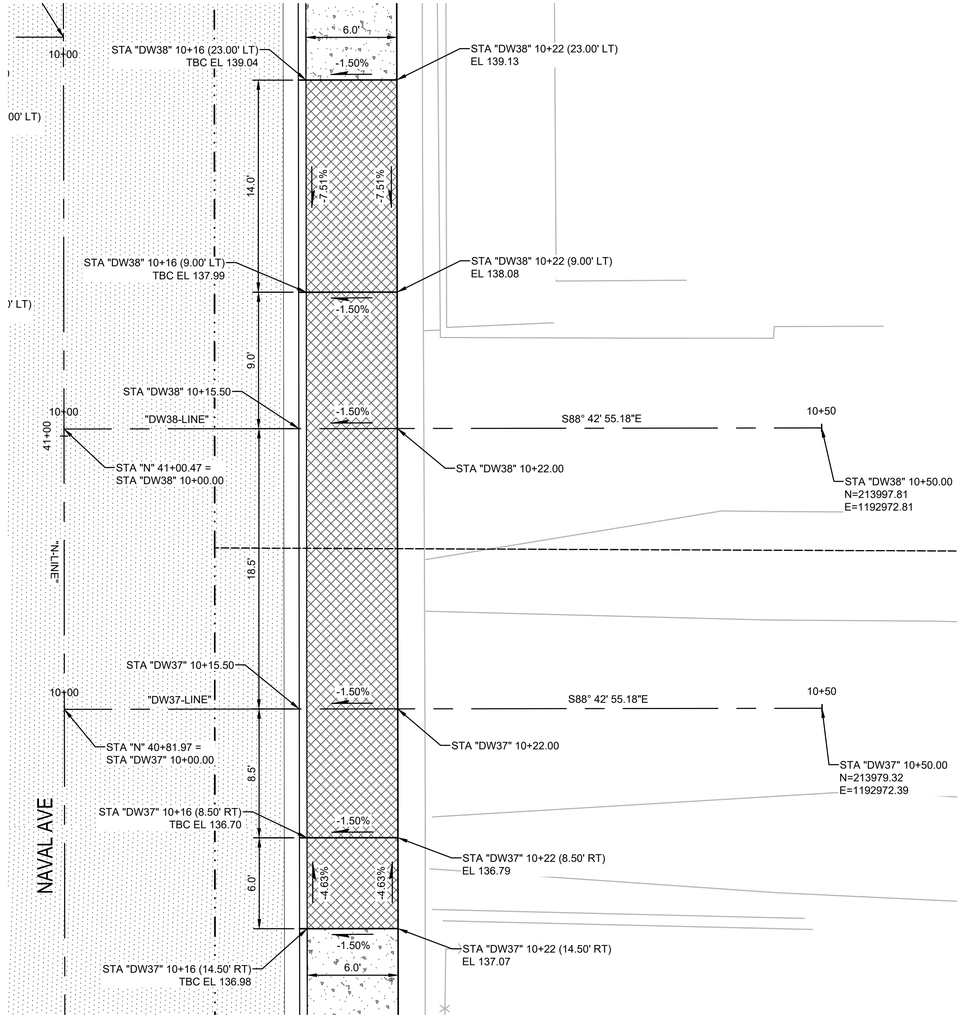
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW24
SHEET
110
OF
179

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.



DRIVEWAY DW-37 & DW-38

TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE IN FEET: 5' 0' 5' 10'

VERT SCALE IN FEET: 1' 0' 1' 2'

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

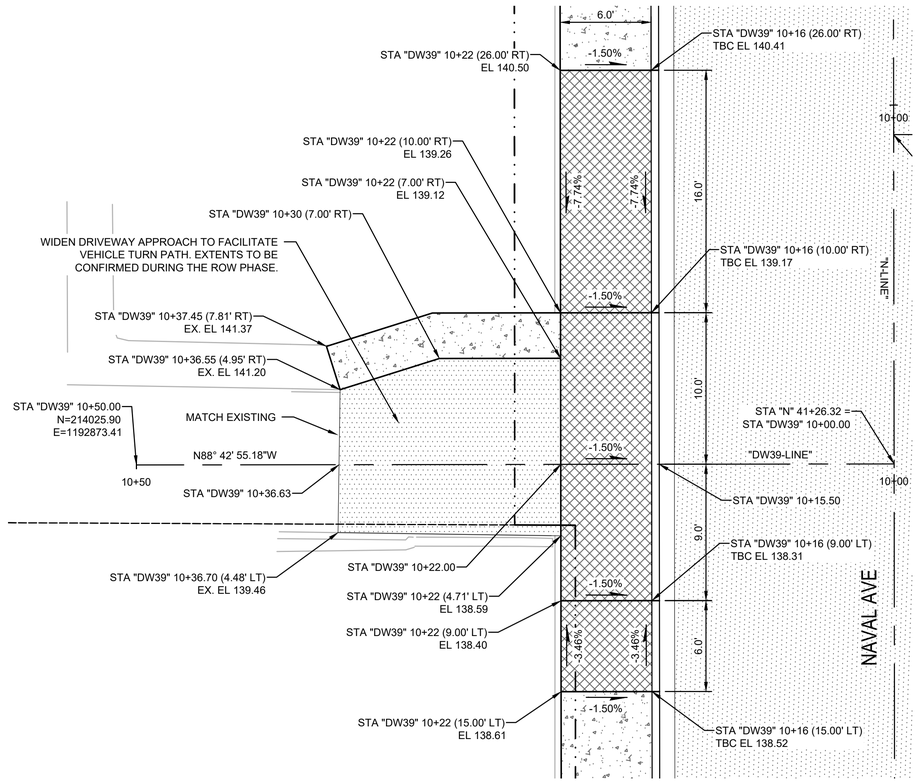
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

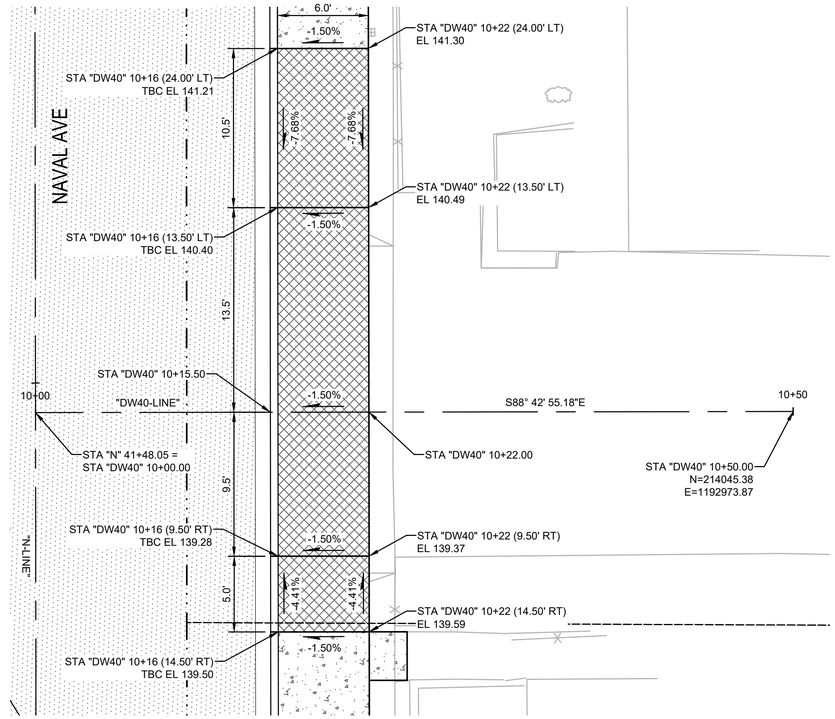
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW25
SHEET
111
OF
179



DRIVEWAY DW-39
TYPE III - RESIDENTIAL



DRIVEWAY DW-40
TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

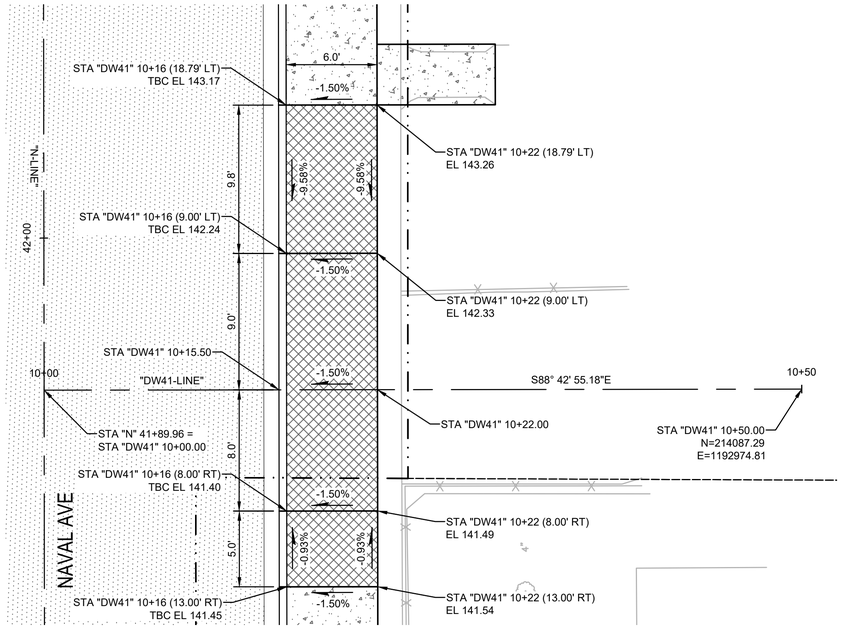
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

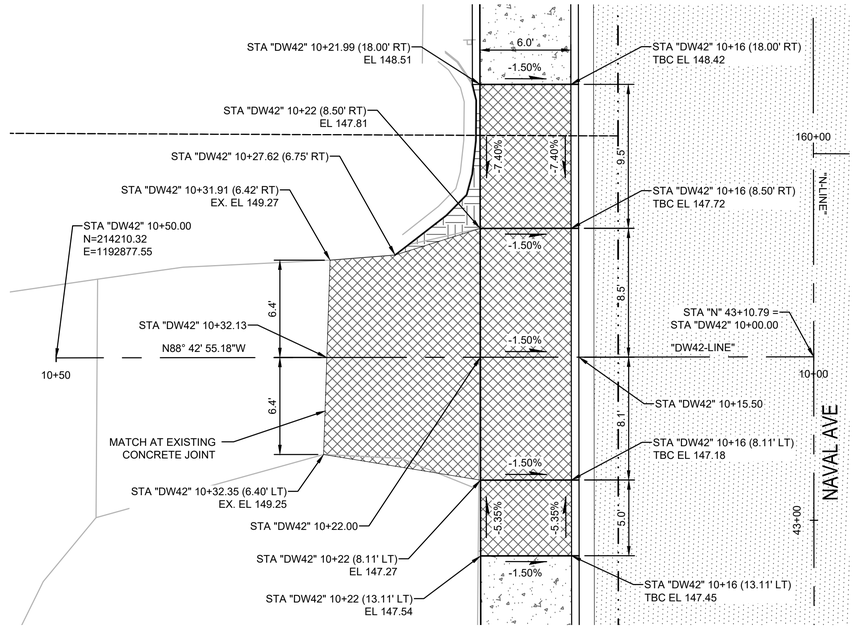
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW26
SHEET
112
OF
179



DRIVEWAY DW-41
TYPE III - RESIDENTIAL



DRIVEWAY DW-42
TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
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12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

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TBC = TOP BACK OF CURB

NOTE:
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DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

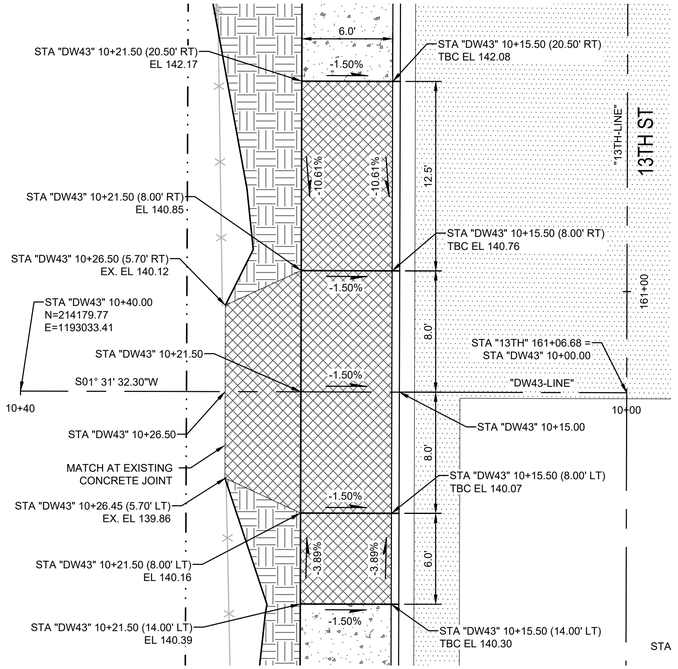
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

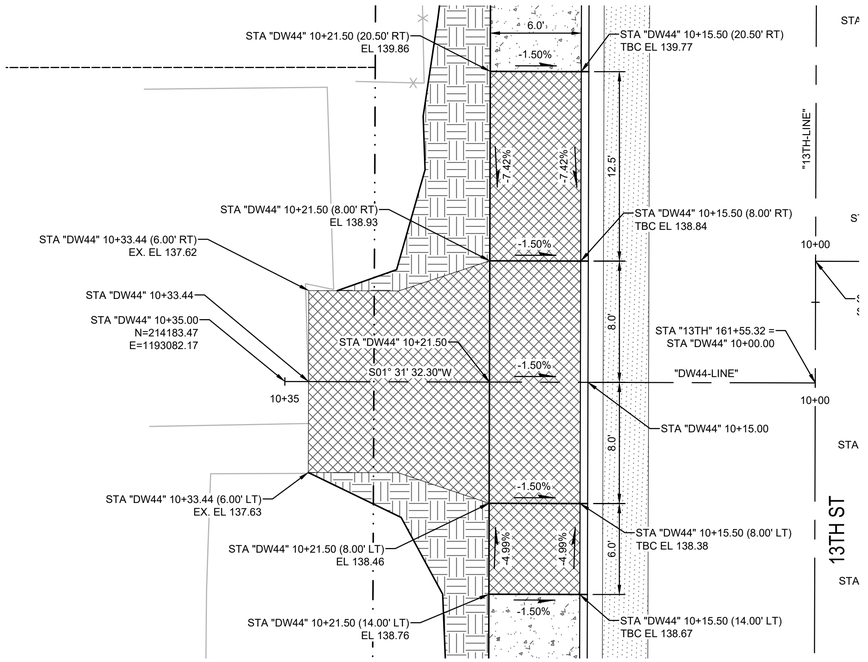
PN: PROJNUM

DW27
SHEET
113
OF
179



DRIVEWAY DW-43

TYPE III - RESIDENTIAL



DRIVEWAY DW-44

TYPE III - RESIDENTIAL

GENERAL NOTES

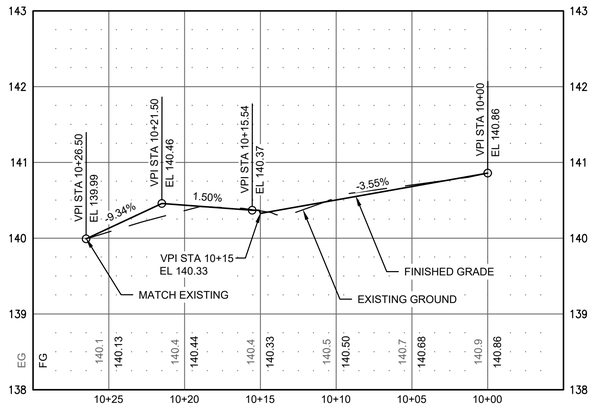
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

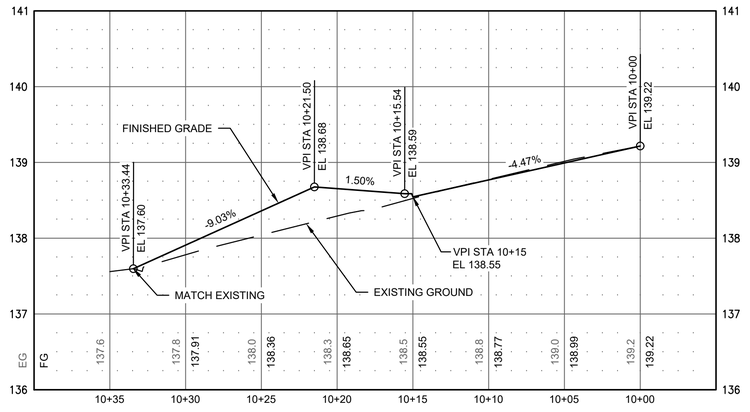
- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

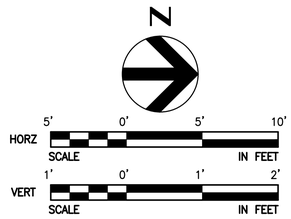
NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



DRIVEWAY DW-43 PROFILE



DRIVEWAY DW-44 PROFILE



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

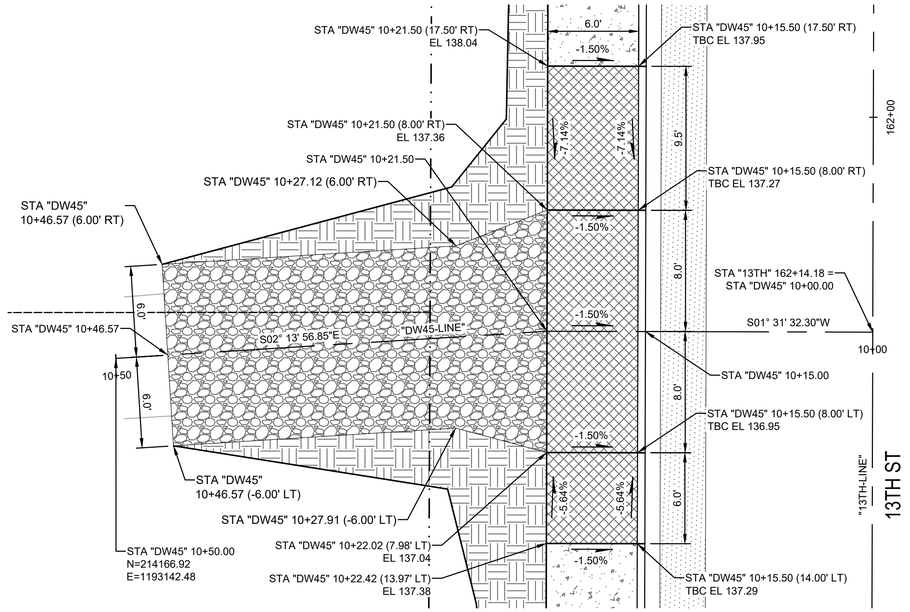
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

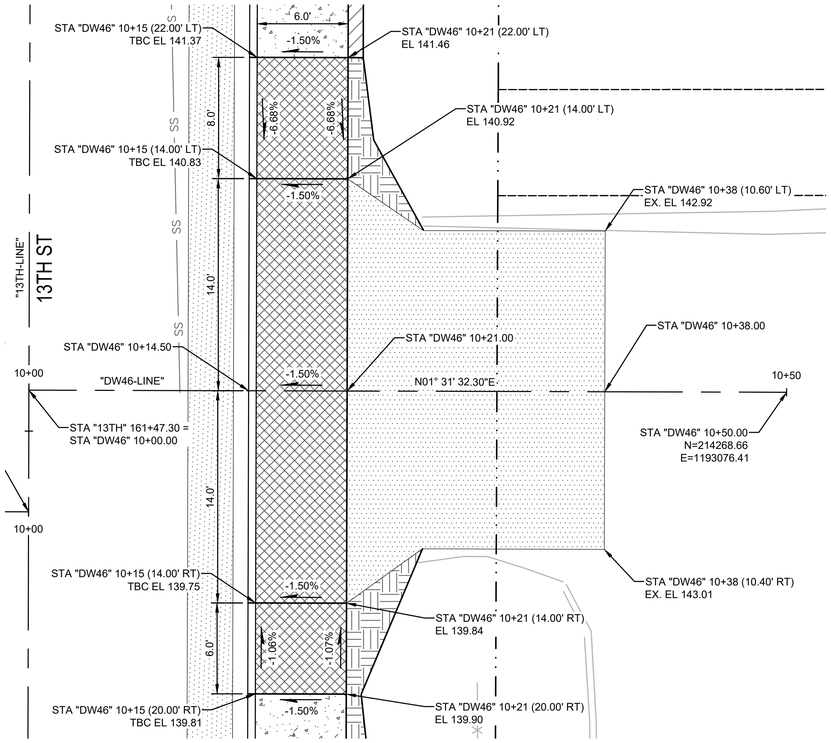
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW28
SHEET
114
OF
179



DRIVEWAY DW-45
TYPE III - RESIDENTIAL



DRIVEWAY DW-46
TYPE III - RESIDENTIAL

GENERAL NOTES

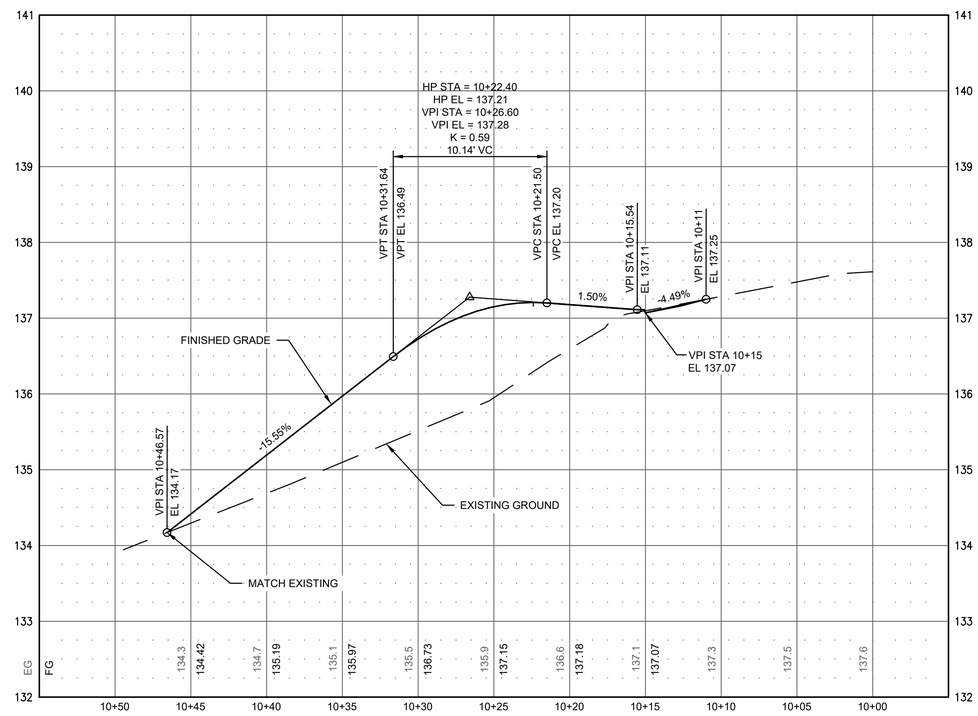
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

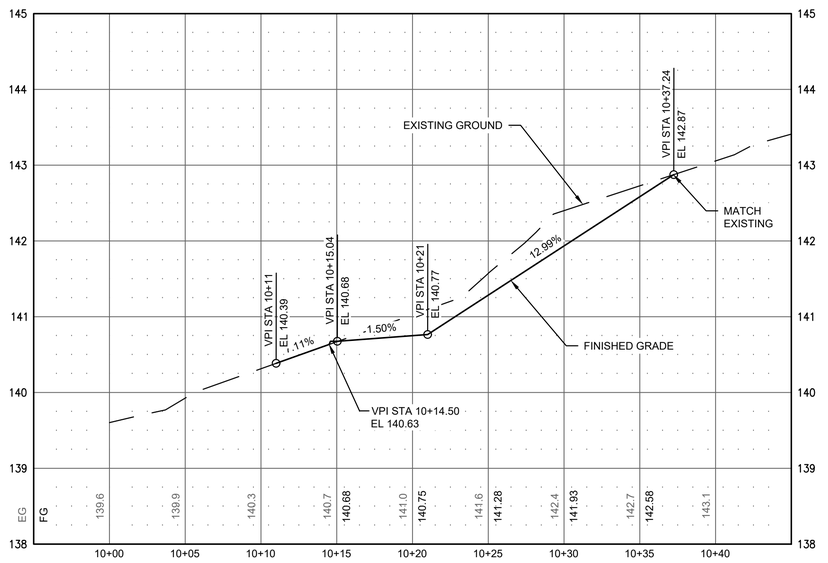
- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

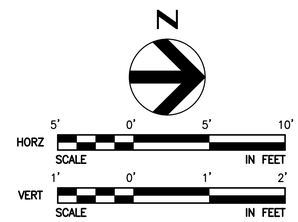
NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



DRIVEWAY DW-45 PROFILE



DRIVEWAY DW-46 PROFILE



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

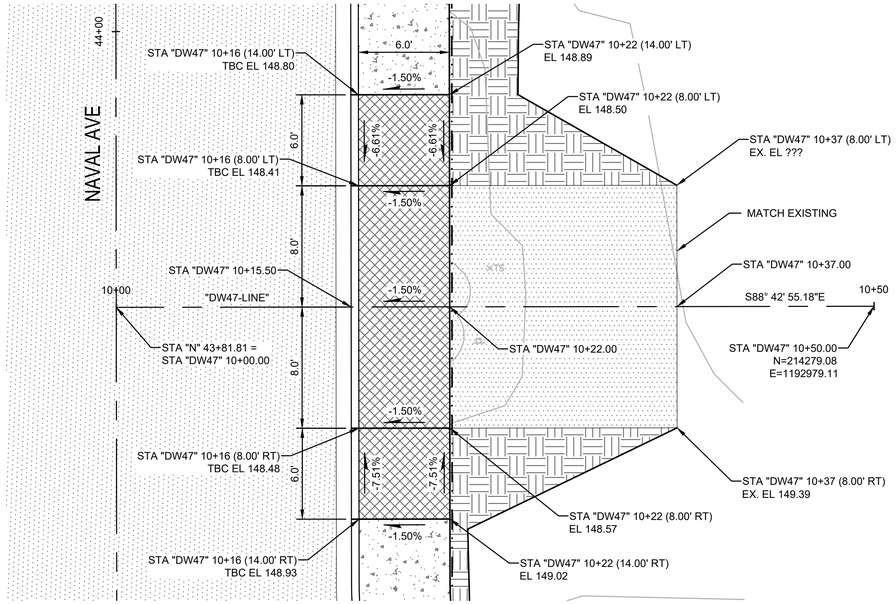
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

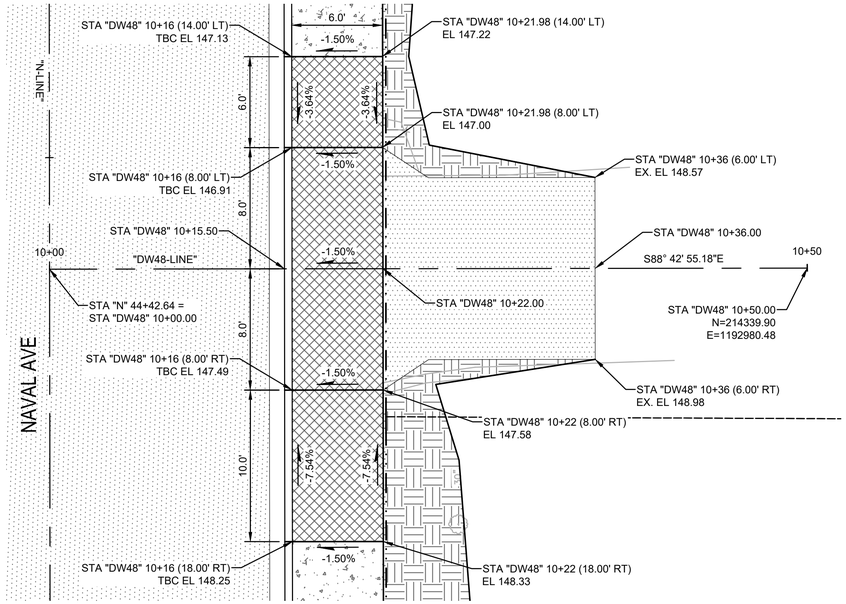
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

DW29
SHEET
115
OF
179



DRIVEWAY DW-47
TYPE III - RESIDENTIAL



DRIVEWAY DW-48
TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

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TBC = TOP BACK OF CURB

NOTE:
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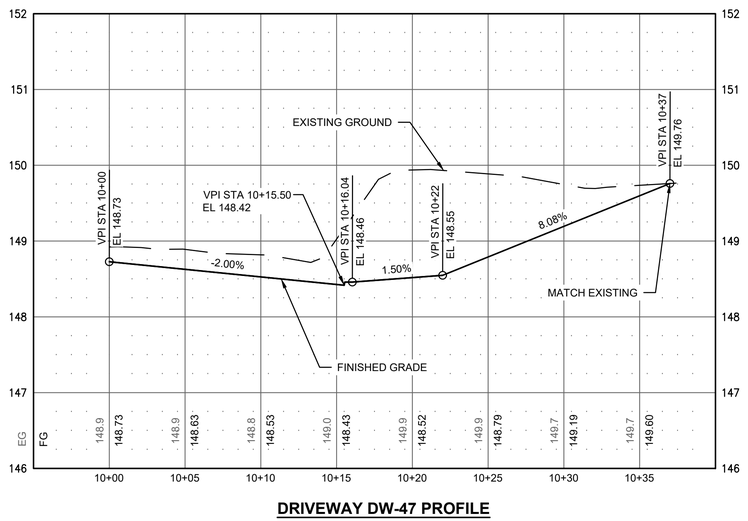
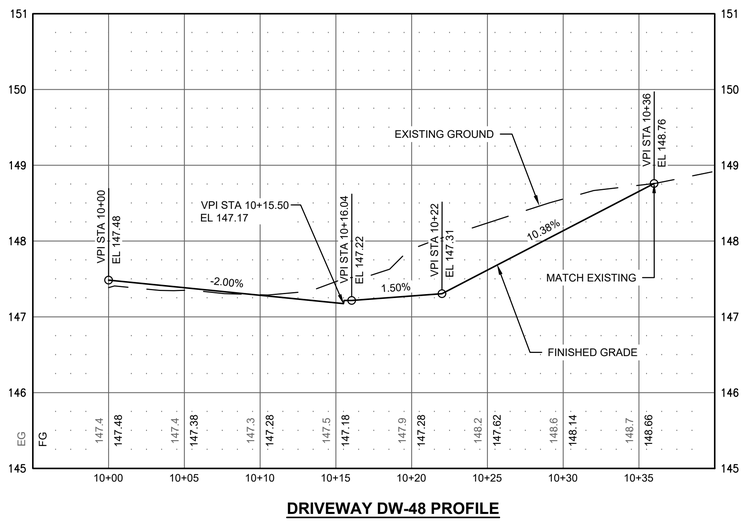
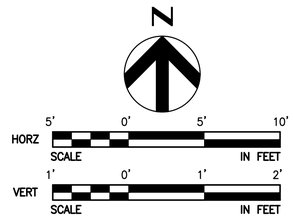


DRIVEWAY DW-47 PROFILE



DRIVEWAY DW-48 PROFILE



CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

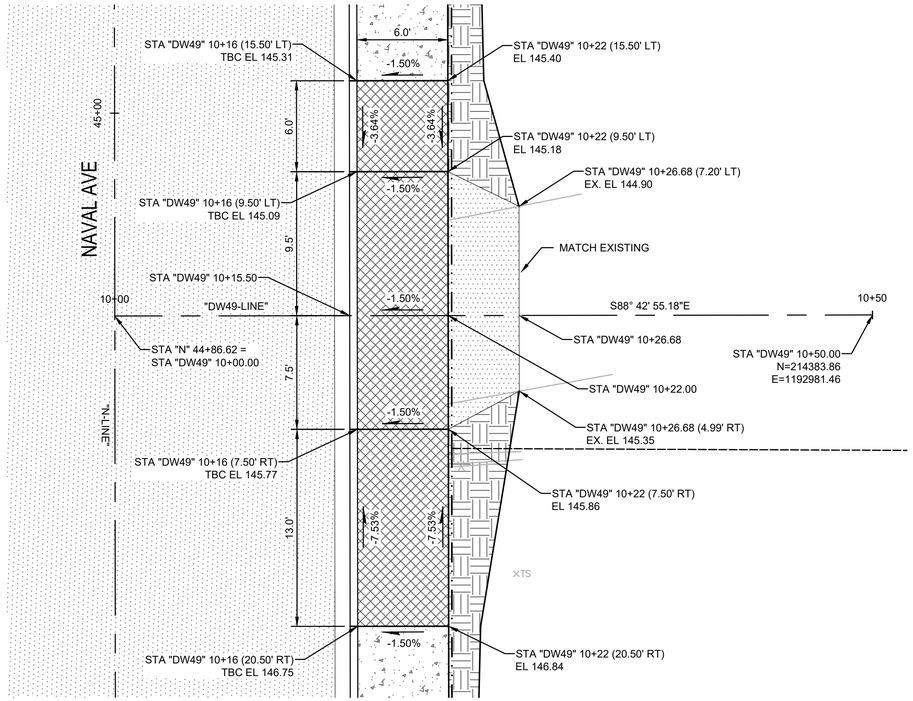
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

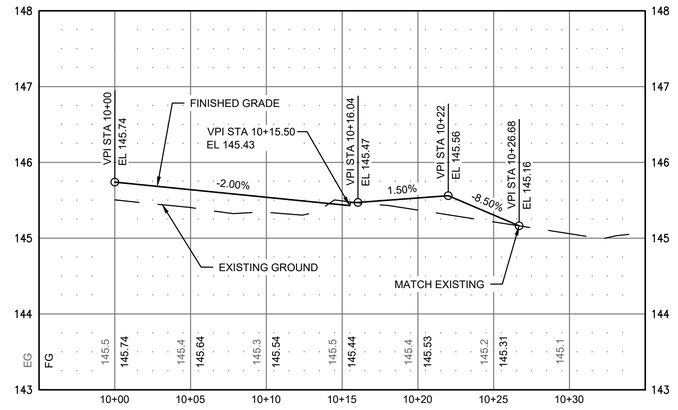
PN: PROJNUM

DW30
SHEET
116
OF
179



DRIVEWAY DW-49

TYPE III - RESIDENTIAL



DRIVEWAY DW-49 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
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12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE IN FEET: 5' 0' 5' 10'

VERT SCALE IN FEET: 1' 0' 1' 2'

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

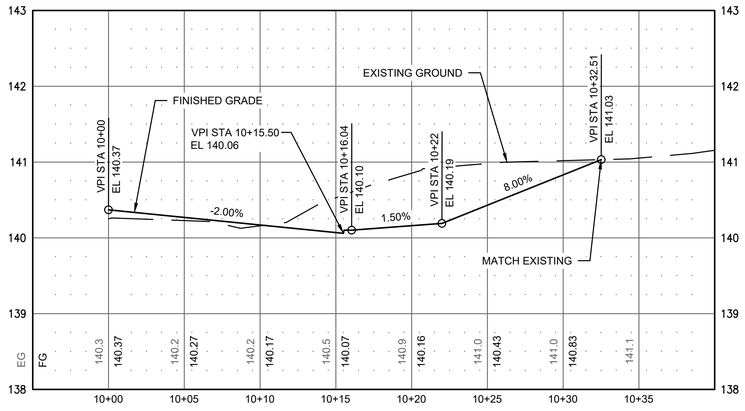
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

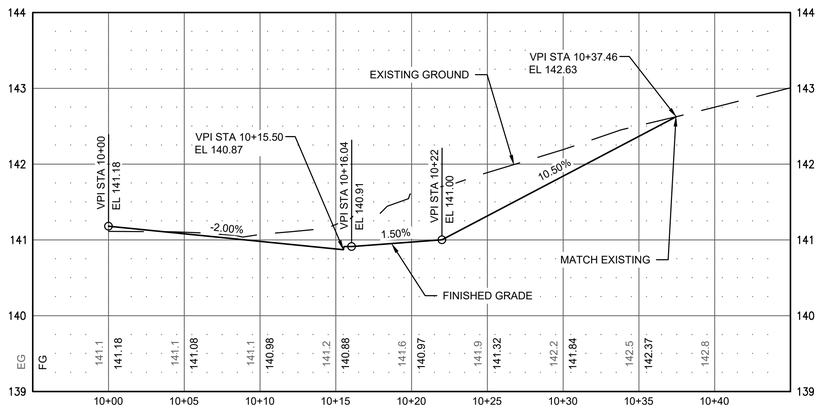
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

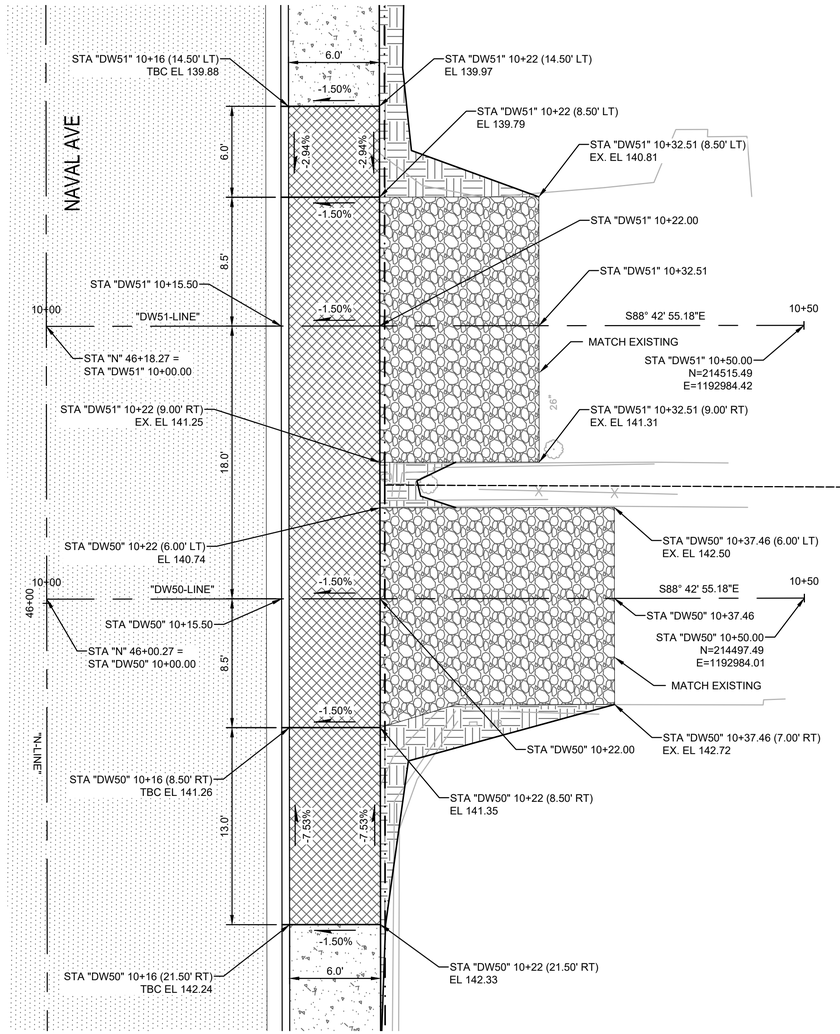
DW31
SHEET
117
OF
179



DRIVEWAY DW-51 PROFILE



DRIVEWAY DW-50 PROFILE



DRIVEWAY DW-50 & 51

TYPE III - RESIDENTIAL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
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7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
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LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION

EX = EXISTING

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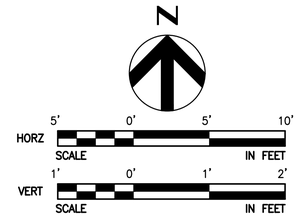


CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

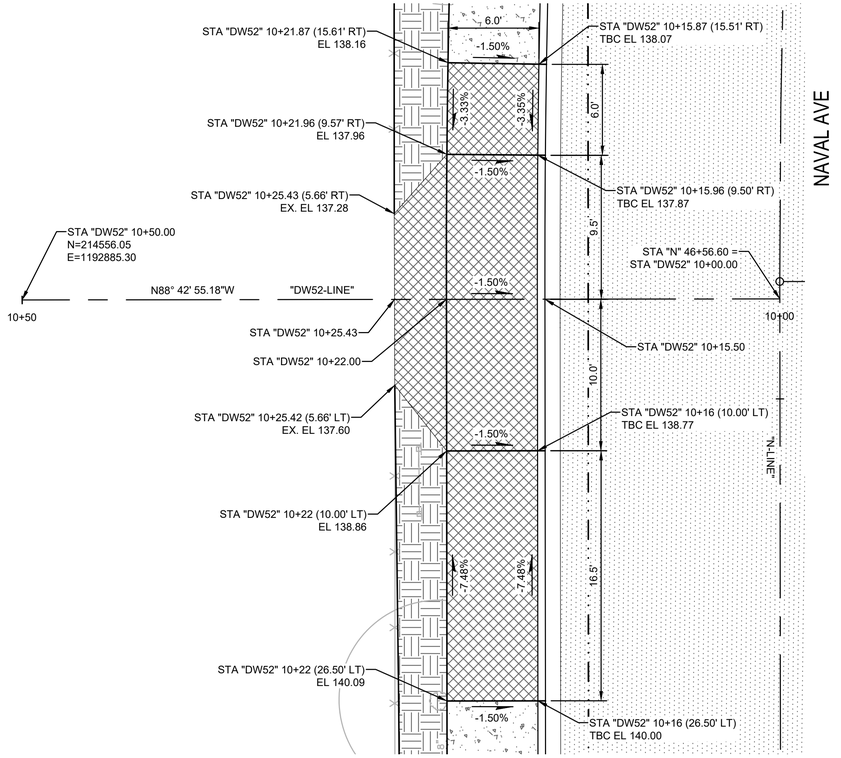
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

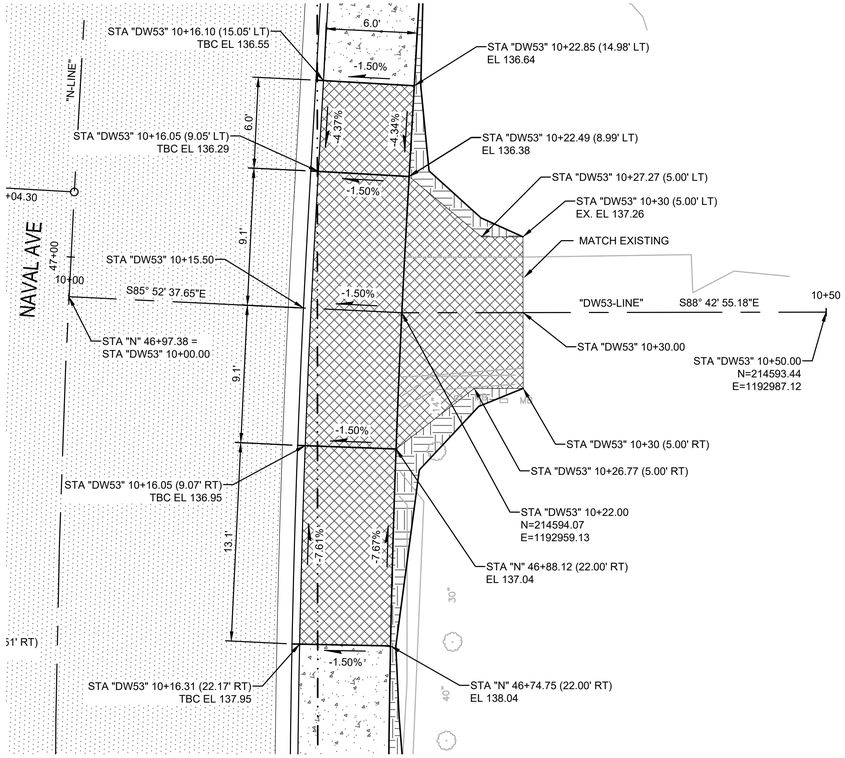
PN: PROJNUM

DW32
SHEET
118
OF
179



DRIVEWAY DW-52

TYPE III - COMMERCIAL

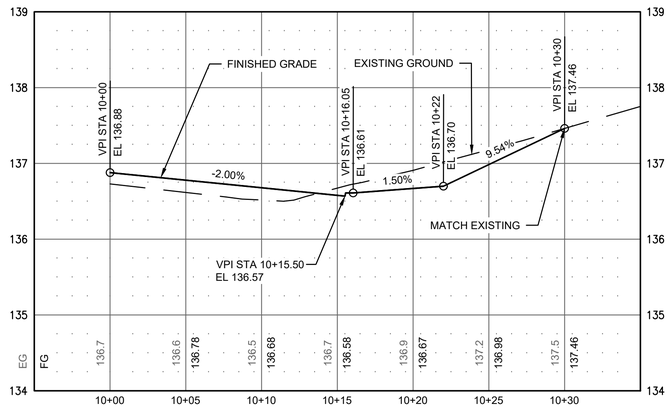


DRIVEWAY DW-53

TYPE III - RESIDENTIAL

DRIVEWAY PROFILE AND PROPERTY INTERFACE GRADING TO BE DETERMINED AS PART OF THE ROW PHASE.

NEW SURVEY REQUIRED TO CAPTURE RECENT WORKS AT CEMETERY GATE



DRIVEWAY DW-53 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

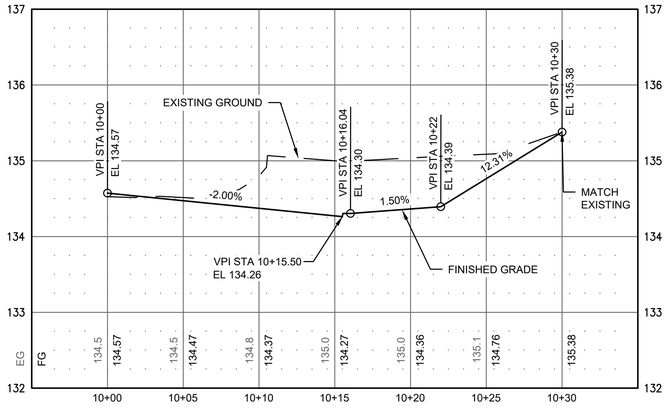
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

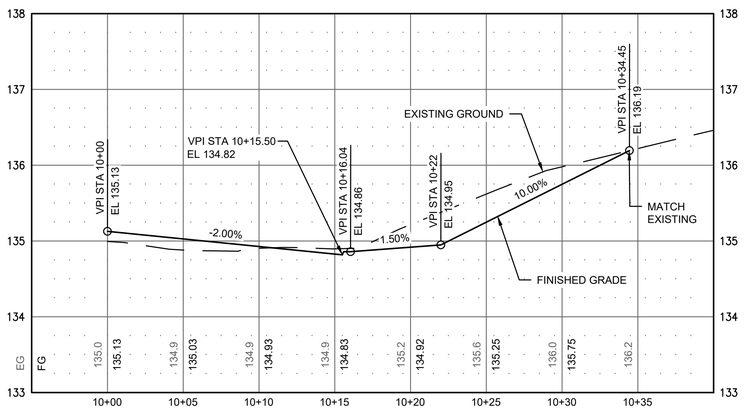
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRIVEWAY & PROPERTY INTERFACE GRADING

PN: PROJNUM

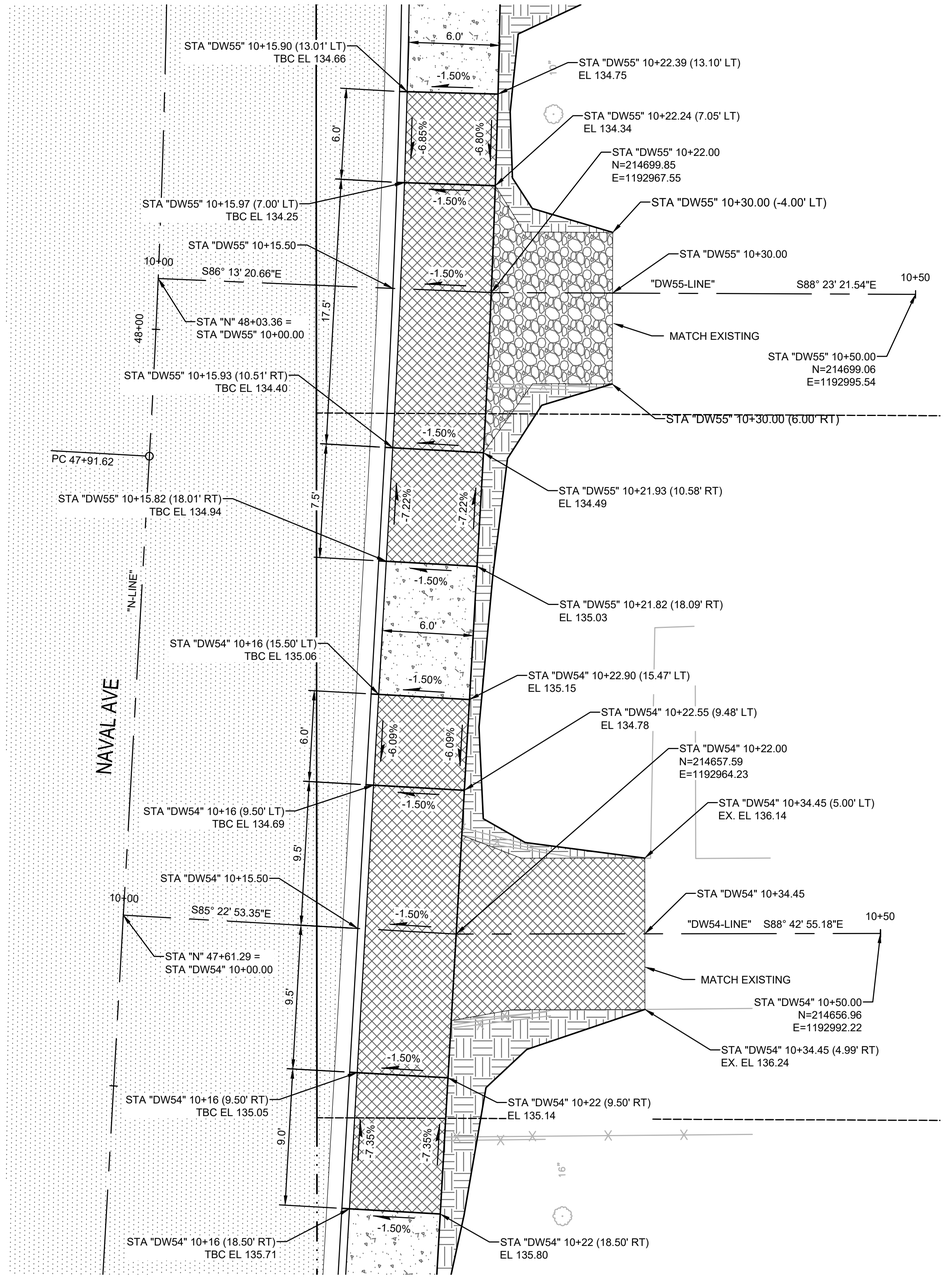
DW33
SHEET
119
OF
179



DRIVEWAY DW-54 PROFILE



DRIVEWAY DW-54 PROFILE



DRIVEWAY DW-54 & DW-55

TYPE III - RESIDENTIAL

GENERAL NOTES

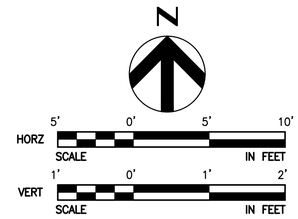
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION
EX = EXISTING
TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.



CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

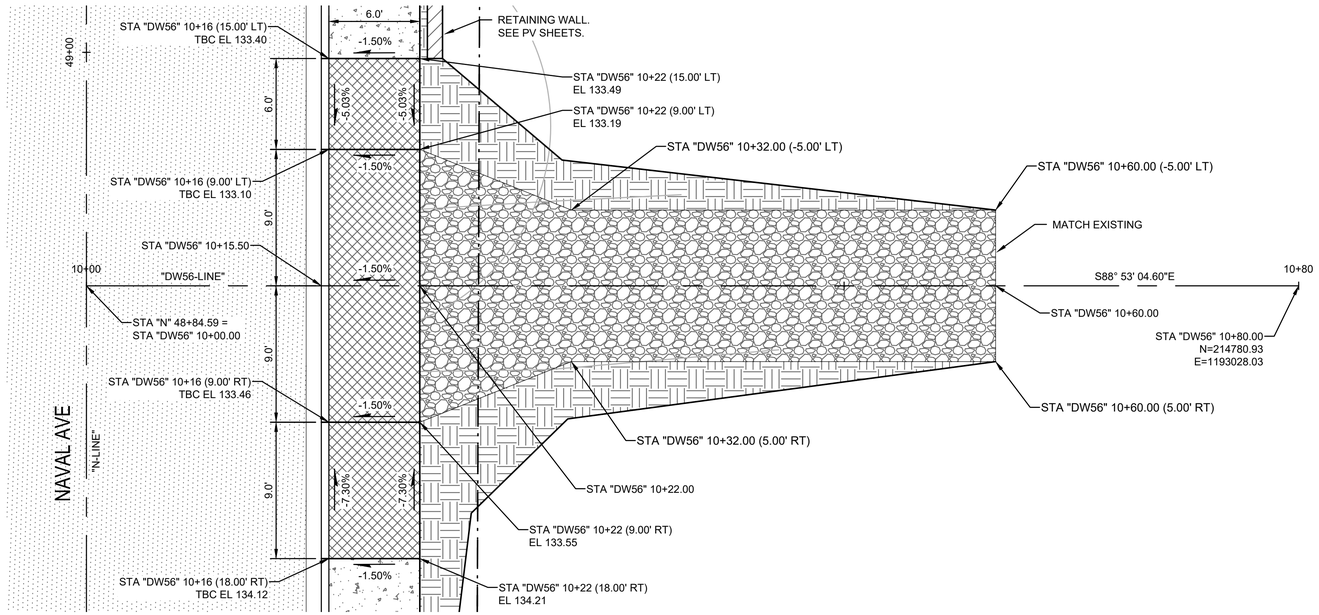
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

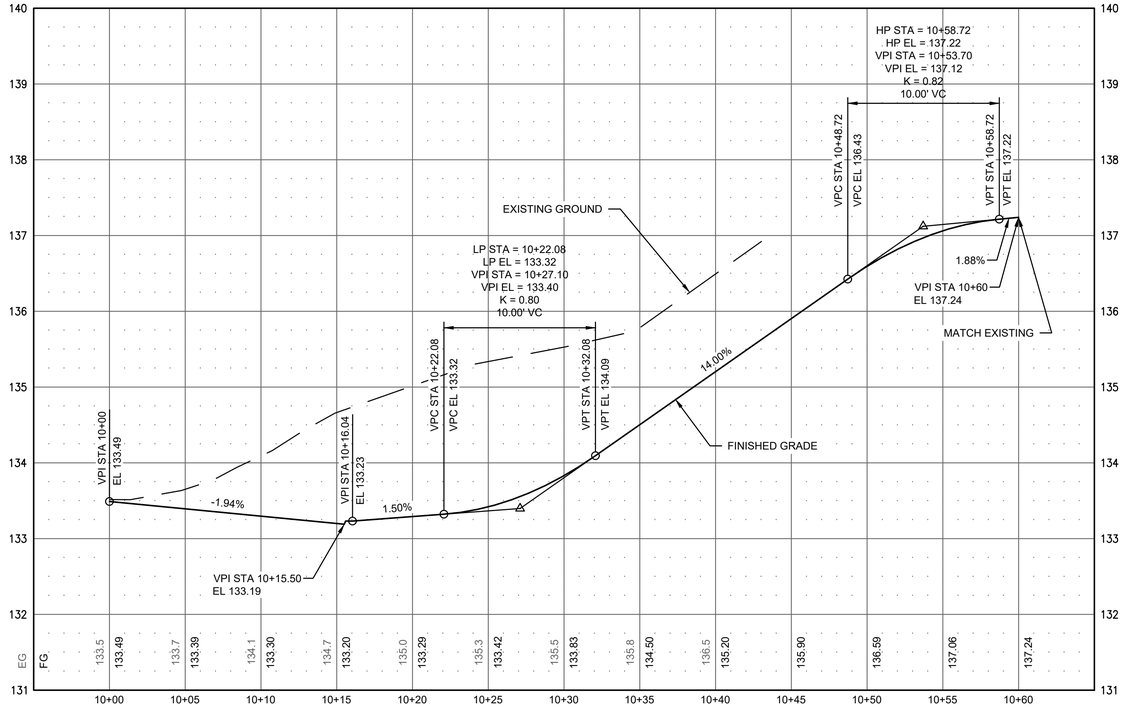
PN: PROJNUM

DW34
SHEET
120
OF
179



DRIVEWAY DW-56

TYPE III - RESIDENTIAL



DRIVEWAY DW-56 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE DETAIL 1 ON SHEET PVD1 FOR SIDEWALK DETAILS.
3. SEE DETAIL 3 ON SHEET PVD1 FOR DRIVEWAY DETAILS.
4. SEE DETAIL 3 ON SHEET PVD2 FOR CURB AND GUTTER DETAILS.
5. SEE PV AND IG SHEETS FOR FOR CURB AND GUTTER SET–OUT AND GRADING DETAILS NOT SHOWN HERE.
6. SEE AL SHEETS FOR ALIGNMENT DETAILS.
7. SEE TYPICAL SECTIONS ON RS SHEETS FOR PROPERTY SLOPE RESTORATION DETAILS BEHIND SIDEWALK.
8. CONTRACTOR TO ROUND DRIVEWAY TIE–IN POINT TO MATCH EXISTING GRADE.
9. ALL ELEVATIONS SHOWN ARE FINISHED GRADE.
10. HMA PAVEMENT DRIVEWAY APPROACH TO BE 4" HMA CL. 1/2" IN. PG 58H–22 OVER 4" CSBC.
11. RESIDENTIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 6" 4000 PSI CONCRETE OVER 4" CSTC
12. COMMERCIAL CEMENT CONCRETE DRIVEWAY APPROACH TO BE 8" 4000 PSI CONCRETE OVER 4" CSTC.
13. GRAVEL DRIVEWAY APPROACH SPECIFICATION TO BE CONFIRMED AS PART OF 100% DESIGN.

LEGEND

- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- CONCRETE DRIVEWAY
- HMA PAVEMENT
- GRAVEL DRIVEWAY APPROACH
- LANDSCAPING AREA

EL = ELEVATION

EX = EXISTING

TBC = TOP BACK OF CURB

NOTE:
DRIVEWAY PROFILES, PRIVATE WALK AND PROPERTY INTERFACE GRADING IS TO BE DETERMINED AS PART OF THE ROW PHASE. SELECT DRIVEWAY PROFILES ARE SHOWN ON THE 90% DESIGN PLANS TO INDICATE ANTICIPATED PROPERTY IMPACTS.

N

HORZ SCALE: 5' 0' 5' 10' IN FEET

VERT SCALE: 1' 0' 1' 2' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

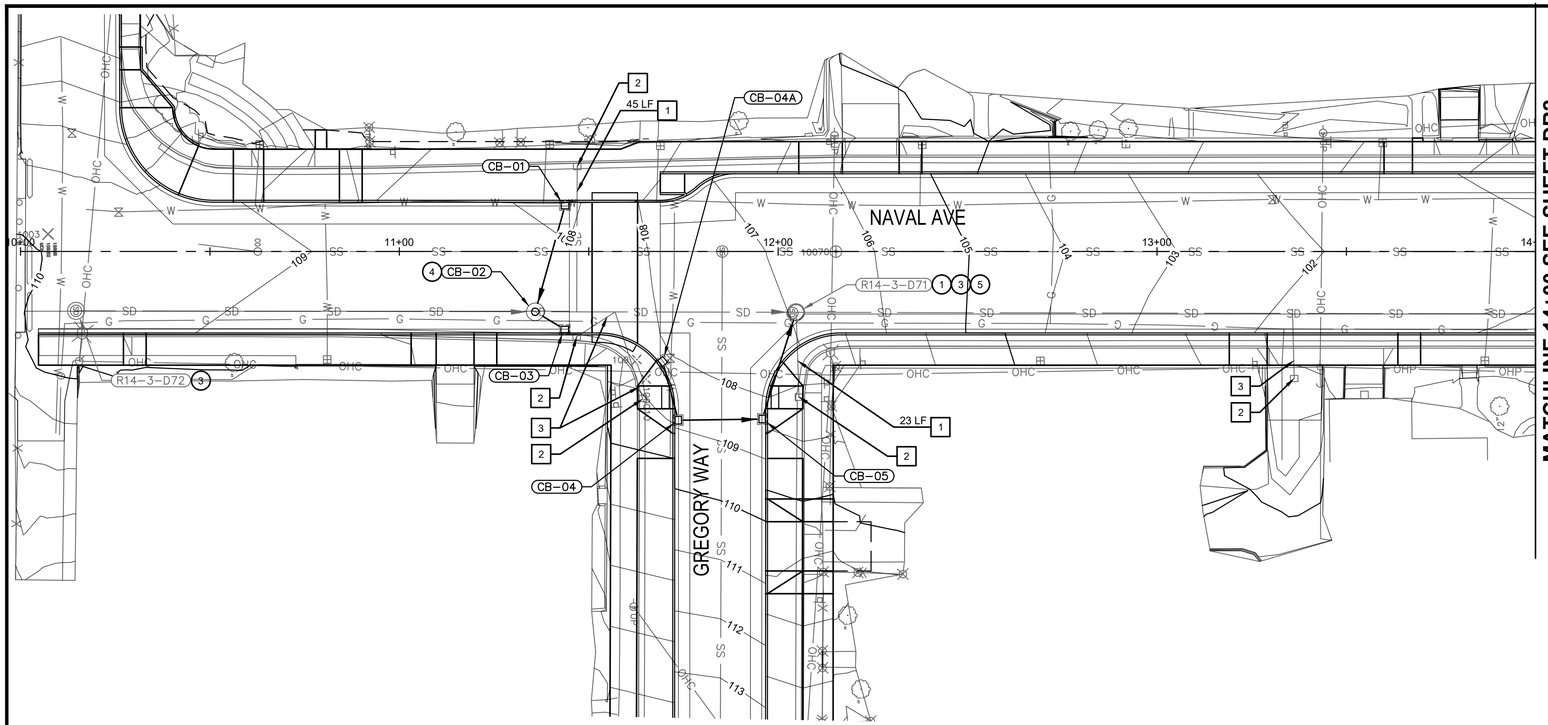
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

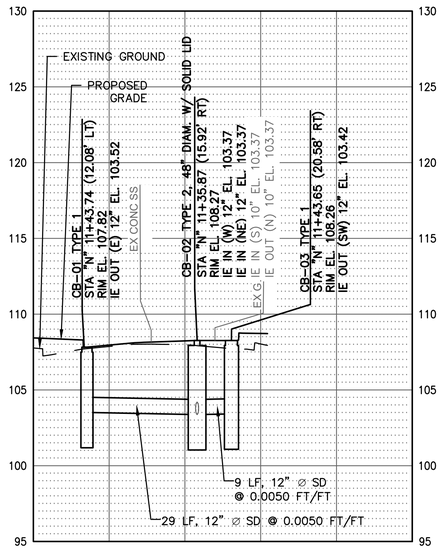
NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRIVEWAY & PROPERTY INTERFACE GRADING

PN. PROJNUM

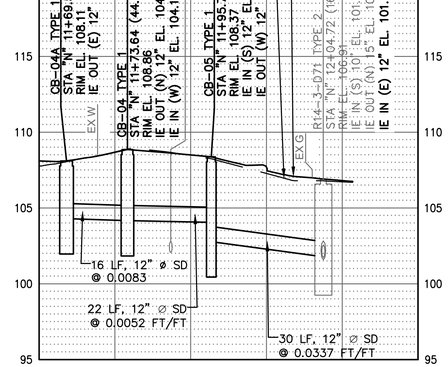
DW35
SHEET
121
OF
179



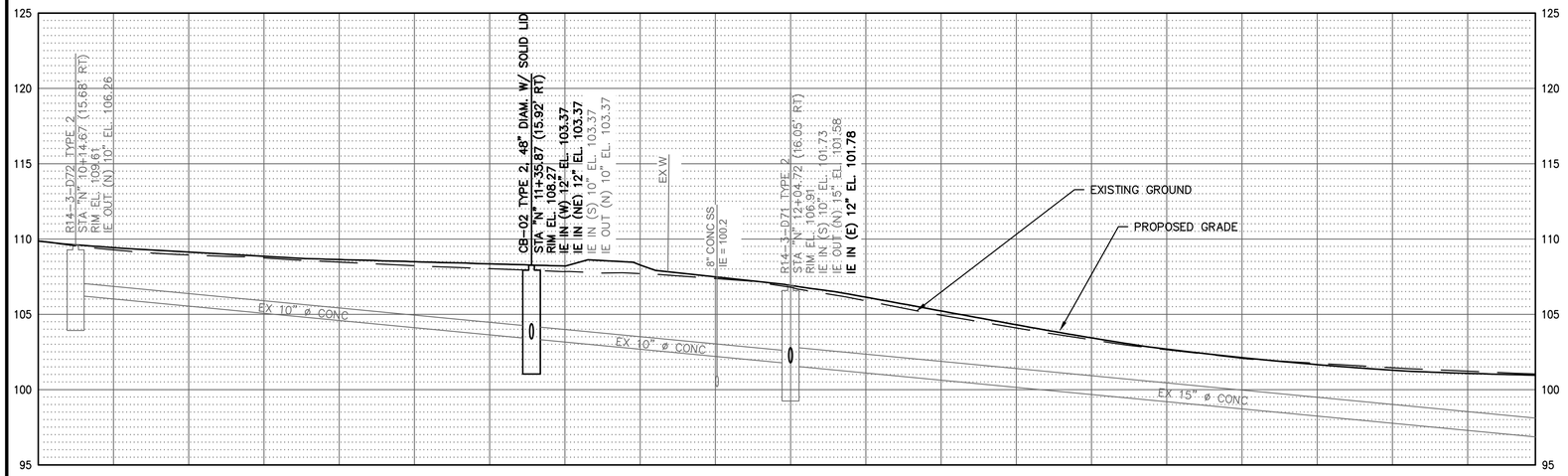
MATCHLINE 14+00 SEE SHEET DR2



CB-01 - CB-03 PROFILE



CB-04A - R14-3-D71 PROFILE



R14-3-D72 - R14-3-D71 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
7. ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR 2024 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
8. NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
9. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF THE EFFECTED CONSTRUCTION.
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

CAMERON CRAIG FRENCH, STATE OF WASHINGTON, 21018737, REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

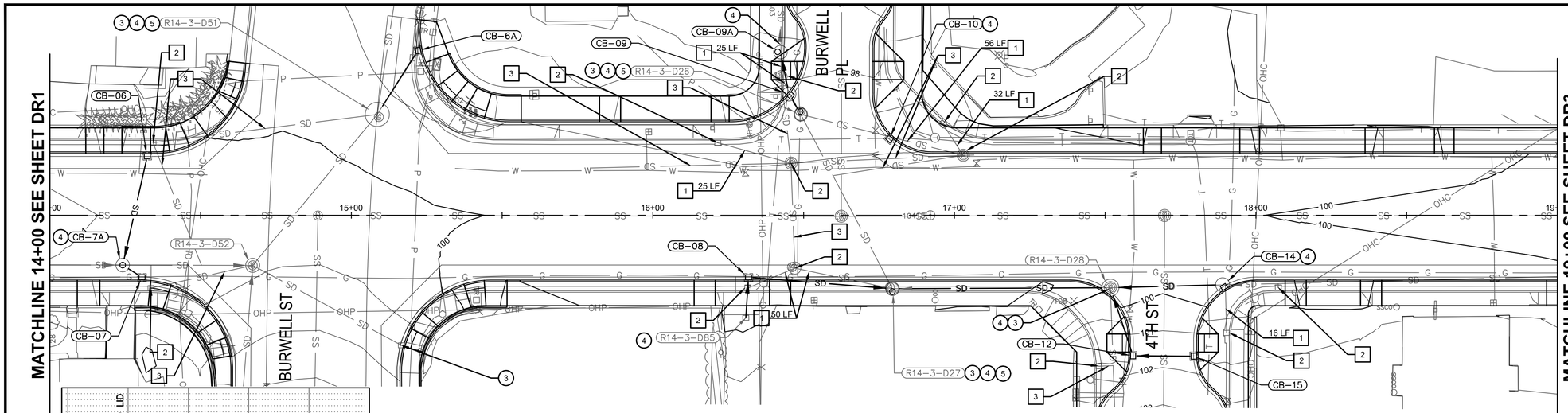
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRAINAGE PLANS AND PROFILES
BEGIN TO STA 14+00

PN: PROJNUM

DR1
SHEET
122
OF
179



GENERAL NOTES

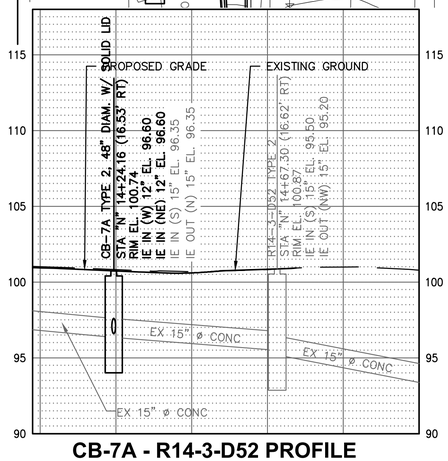
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
7. ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR 2024 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
8. NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
9. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF THE EFFECTED CONSTRUCTION.
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

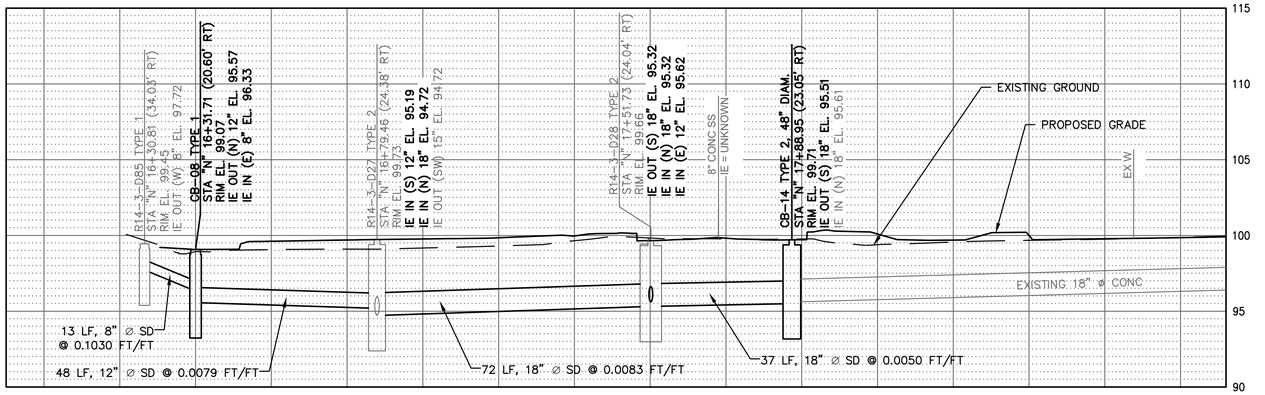
1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

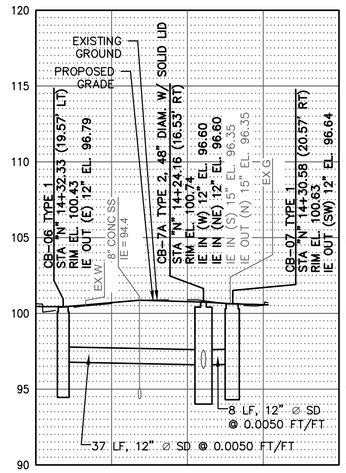
1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID



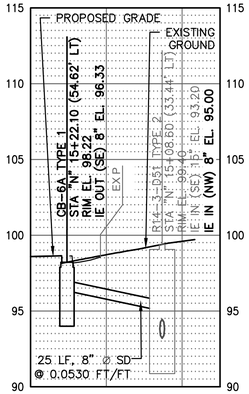
CB-7A - R14-3-D52 PROFILE



R14-3-D85 - CB-14 PROFILE



CB-06 - CB-07 PROFILE



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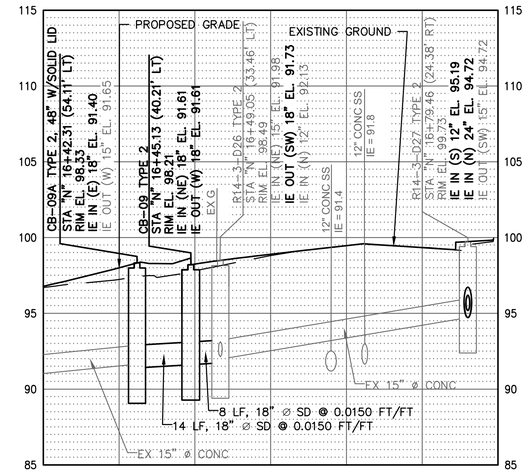
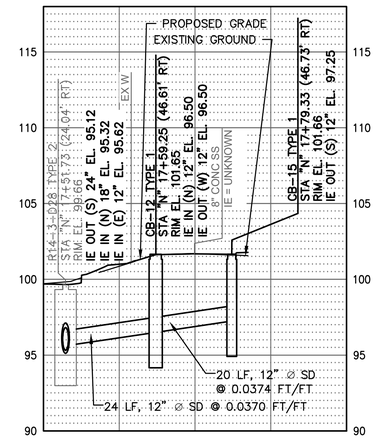
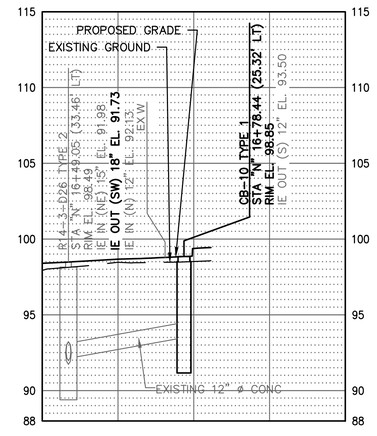


CB-09A - R14-3-D27 PROFILE



R14-3-D28 - CB-15 PROFILE



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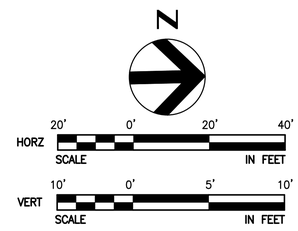


CAD FILE:

ENGINEER STAMP
CAMERON CRAIG FRENCH
STATE OF WASHINGTON
21018737
REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY (0 1" 2")

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

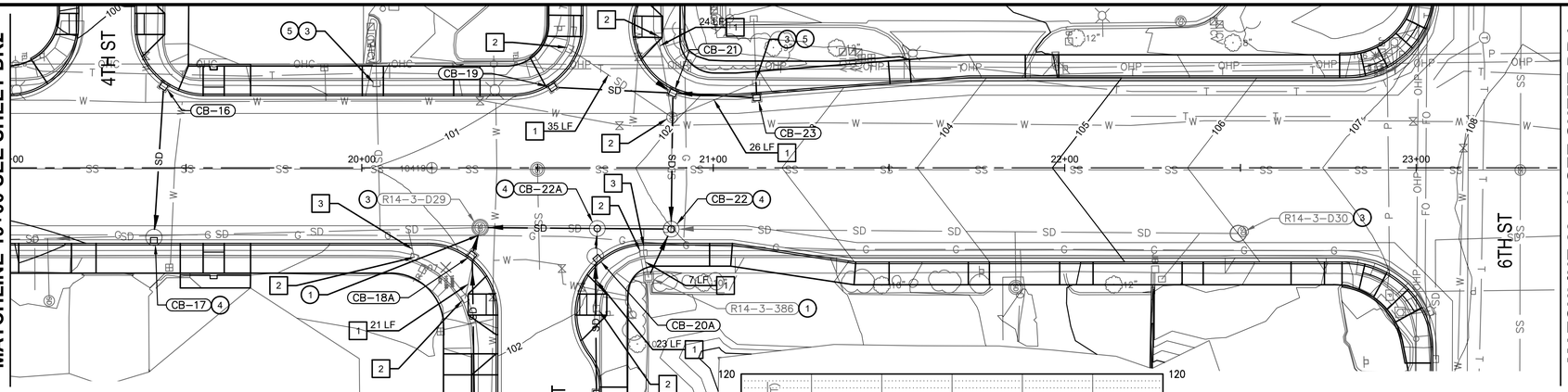
DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 14+00 TO STA 19+00

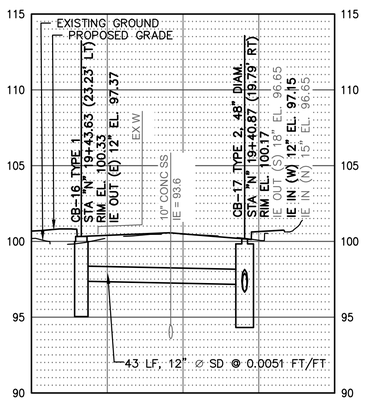
PN: PROJNUM

DR2 SHEET 123 OF 179

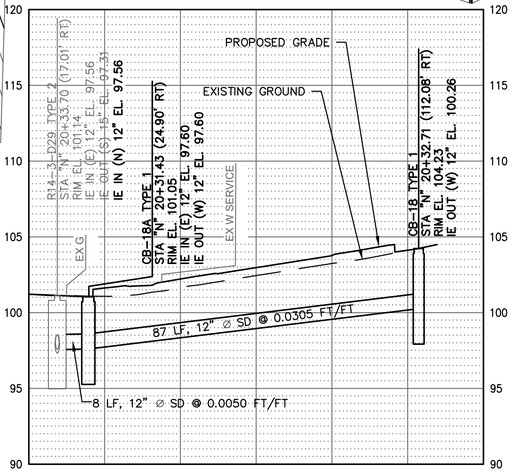
MATCHLINE 19+00 SEE SHEET DR2



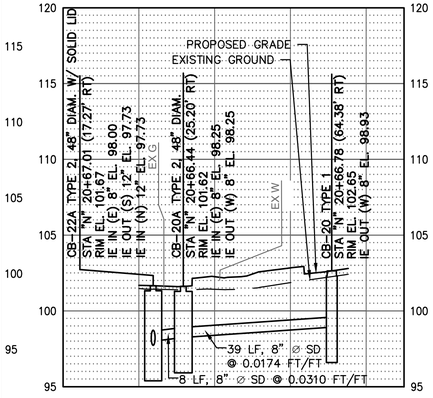
MATCHLINE 23+40 SEE SHEET DR4



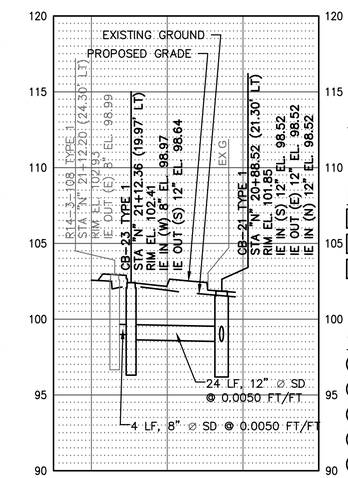
CB-16 - CB-17 PROFILE



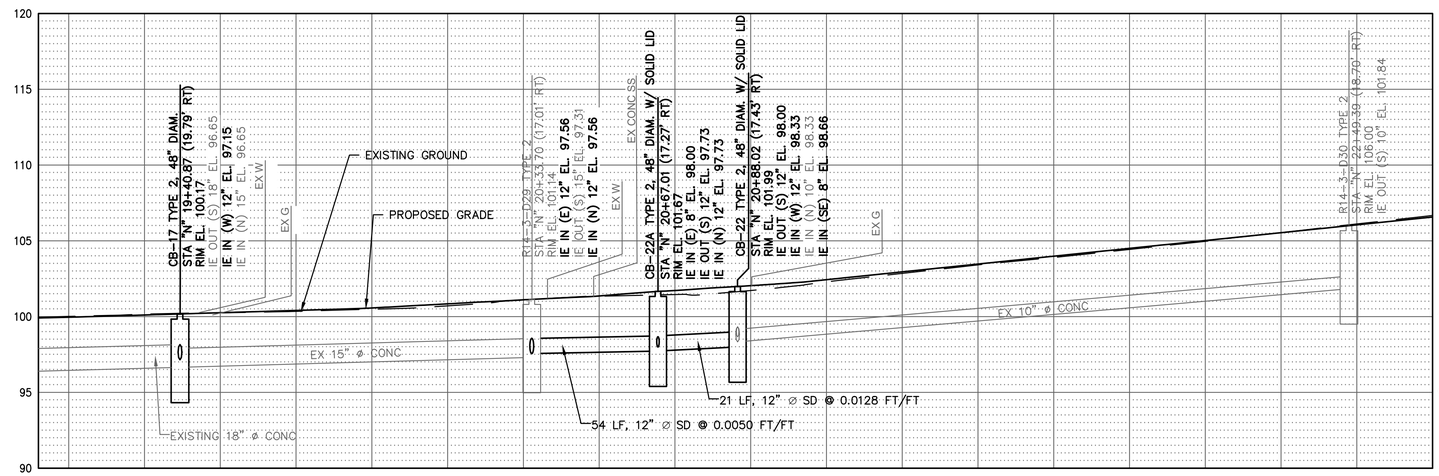
R14-3-D29 - CB-18 PROFILE



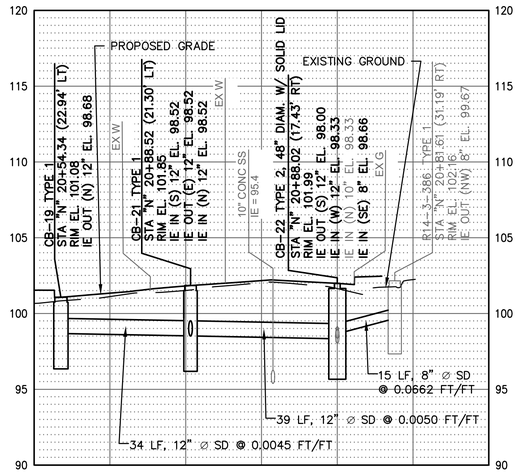
CB-22A - CB-20 PROFILE



CB-23 - CB-21 PROFILE



CB-17 - R14-3-D30 PROFILE



CB-19 - R14-3-386 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
7. ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR 2024 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
8. NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
9. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF THE EFFECTED CONSTRUCTION.
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID

N

HORZ SCALE 20' 0' 20' 40' IN FEET

VERT SCALE 10' 0' 5' 10' IN FEET

CAD FILE:

ENGINEER STAMP

CAMERON CRAIG FRENCH
STATE OF WASHINGTON
21018737
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

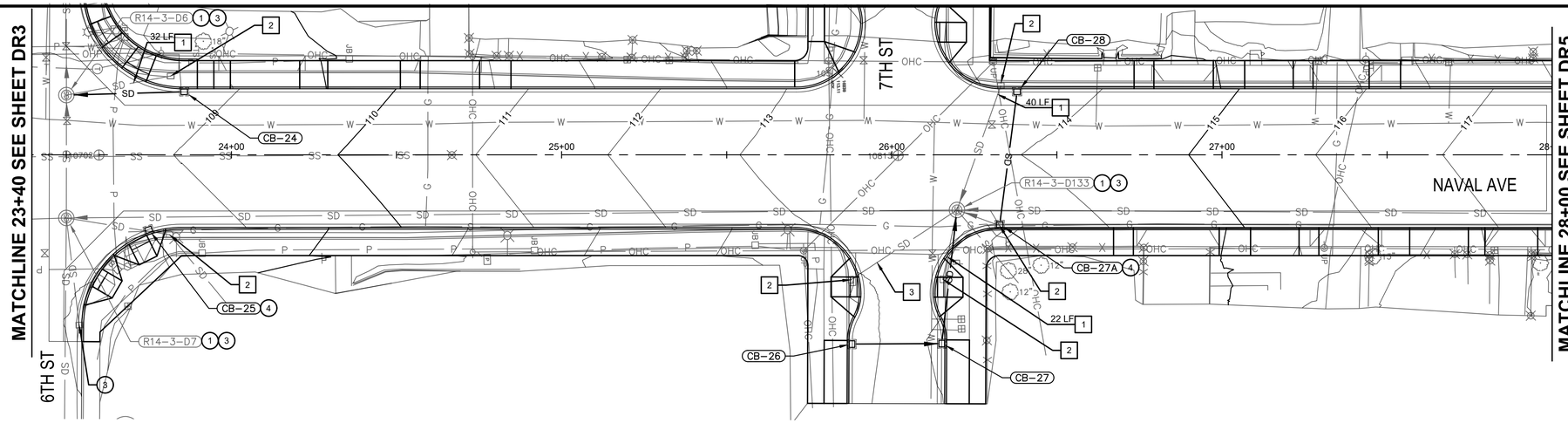
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

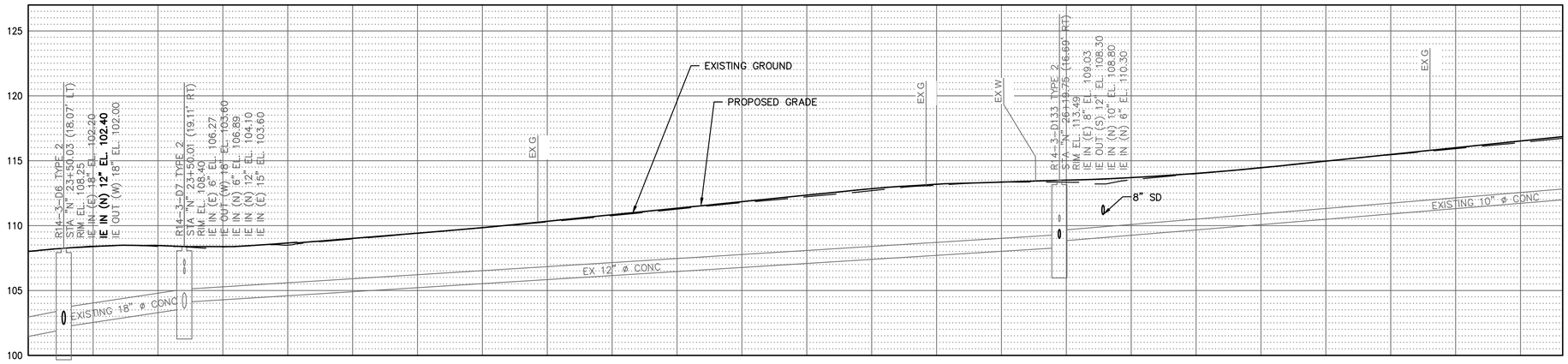
DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 19+00 TO STA 24+00

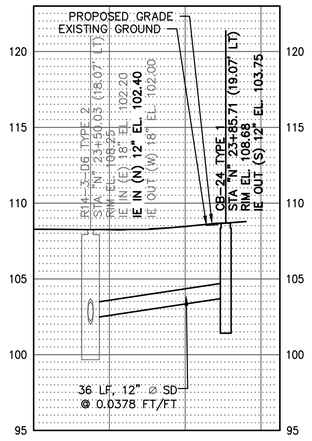
PN. PROJNUM

DR3
SHEET
124
OF
179

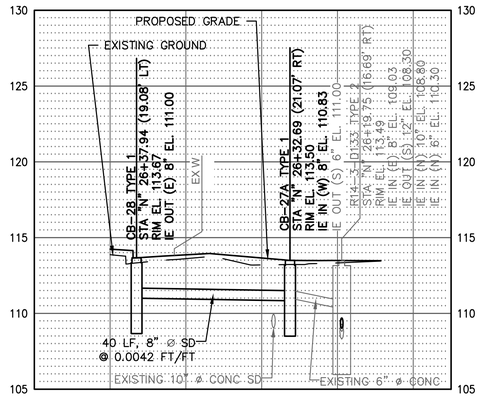




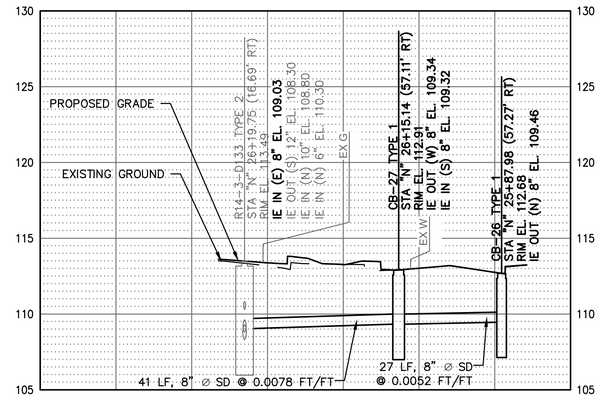
R14-3-D6 - R14-3-D133 PROFILE



R14-3-D6 - CB-24 PROFILE



CB-28 - R14-3-D133 PROFILE



R14-3-D133 - CB-26 PROFILE

GENERAL NOTES

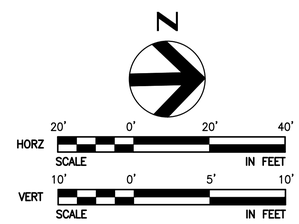
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
7. ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR 2024 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
8. NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
9. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF THE EFFECTED CONSTRUCTION.
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID



CAD FILE:

ENGINEER STAMP
CAMERON CRAIG FRENCH
STATE OF WASHINGTON
21018737
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

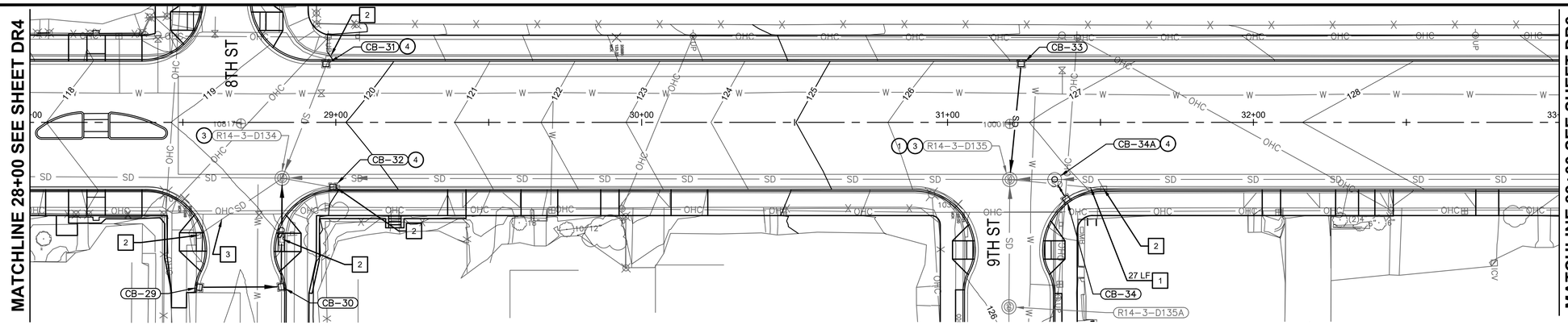
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

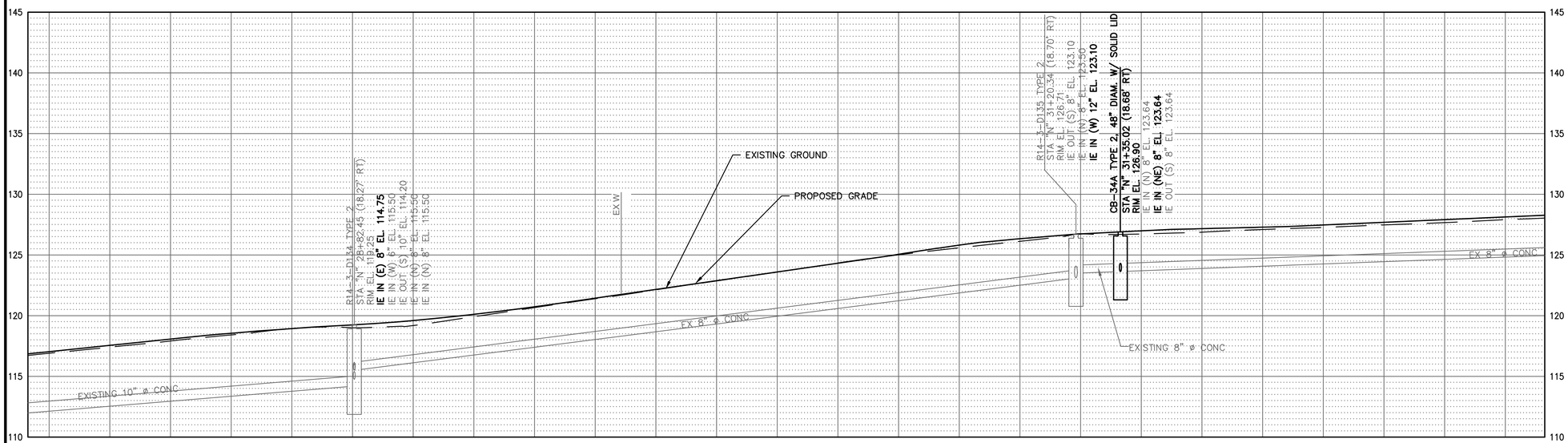
DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 24+00 TO STA 28+00

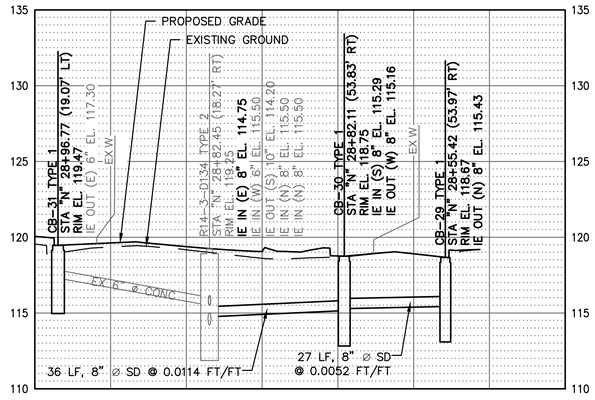
PN: PROJNUM

DR4
SHEET
125
OF
179

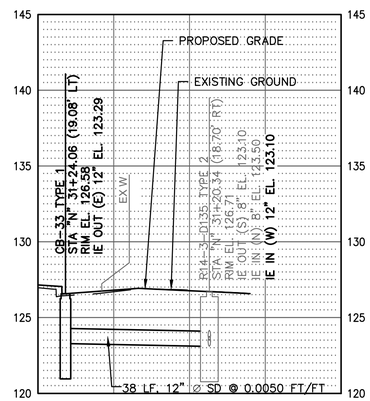




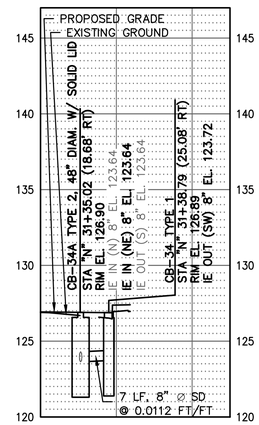
R14-3-D134 - CB-34A PROFILE



CB-31 - CB-29 PROFILE



CB-33 - R14-3-D135 PROFILE



CB-34A - CB-34 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
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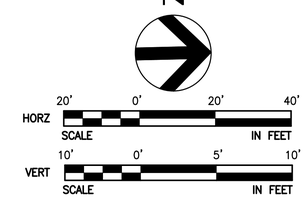
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID



MATCHLINE 33+00 SEE SHEET DR6

CAD FILE:

CAMERON CRAIG FRENCH STATE OF WASHINGTON 21018737 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY (0 1" 2")

SCALE HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: C. FRENCH DATE ---

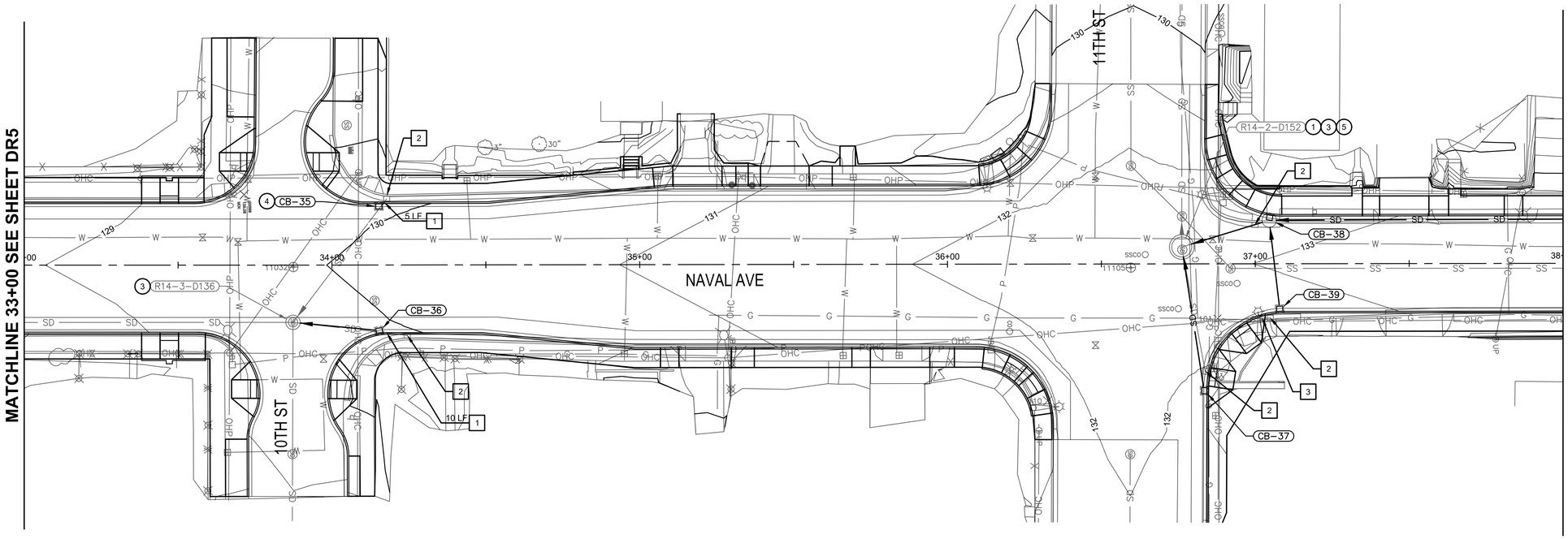
DESIGN BY: C. FRENCH WASH. P.E. # --- DATE ---

CHECKED BY: T. JOHNSON WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 28+00 TO STA 33+00

PN: PROJNUM

DR5 SHEET 126 OF 179



GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
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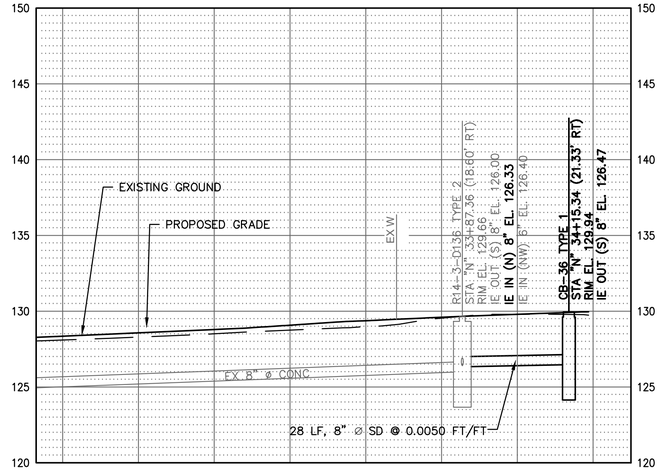
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

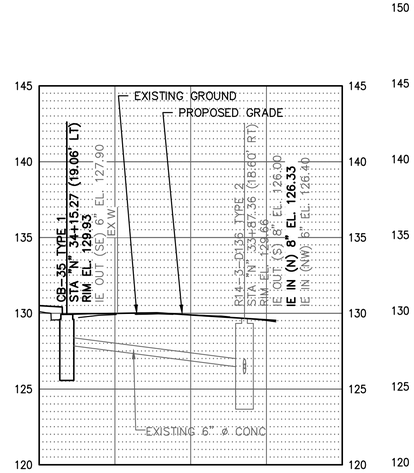
1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

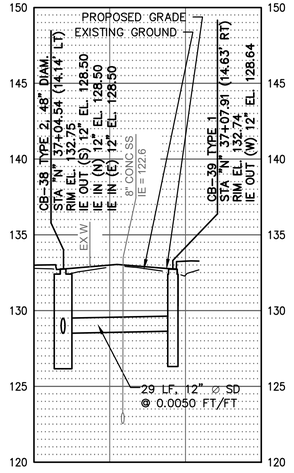
1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID



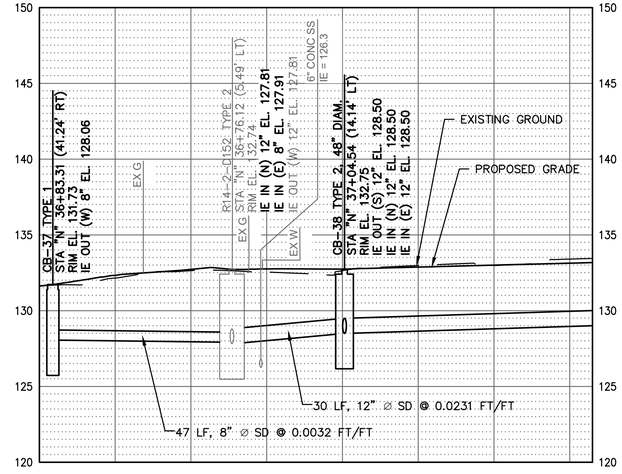
R14-3-D136 - CB-36 PROFILE



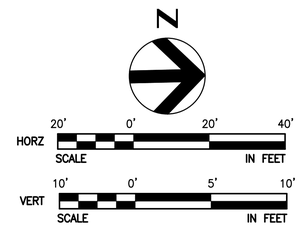
CB-35 - R14-3-D136 PROFILE



CB-38 - CB-39 PROFILE



CB-37 - CB-38 PROFILE



CAD FILE:

CAMERON CRAIG FRENCH
STATE OF WASHINGTON
21018722
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

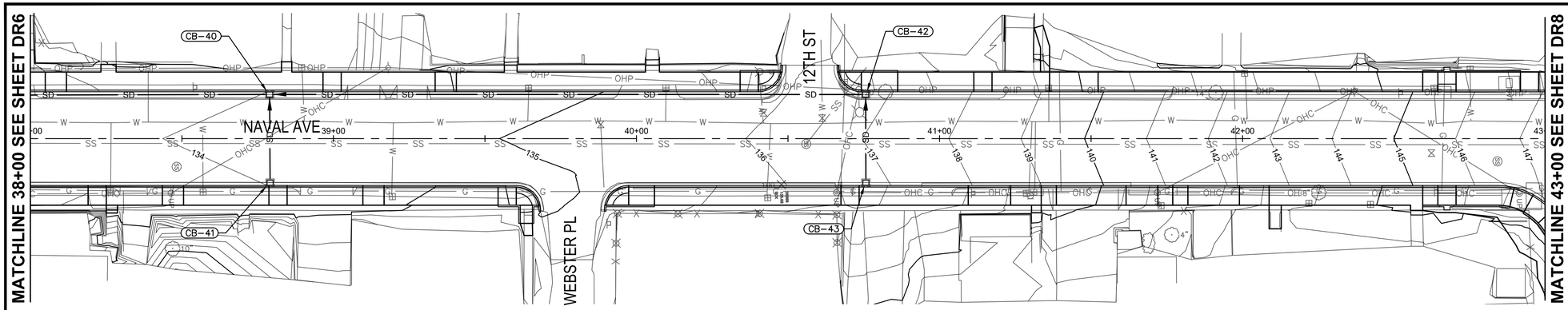
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

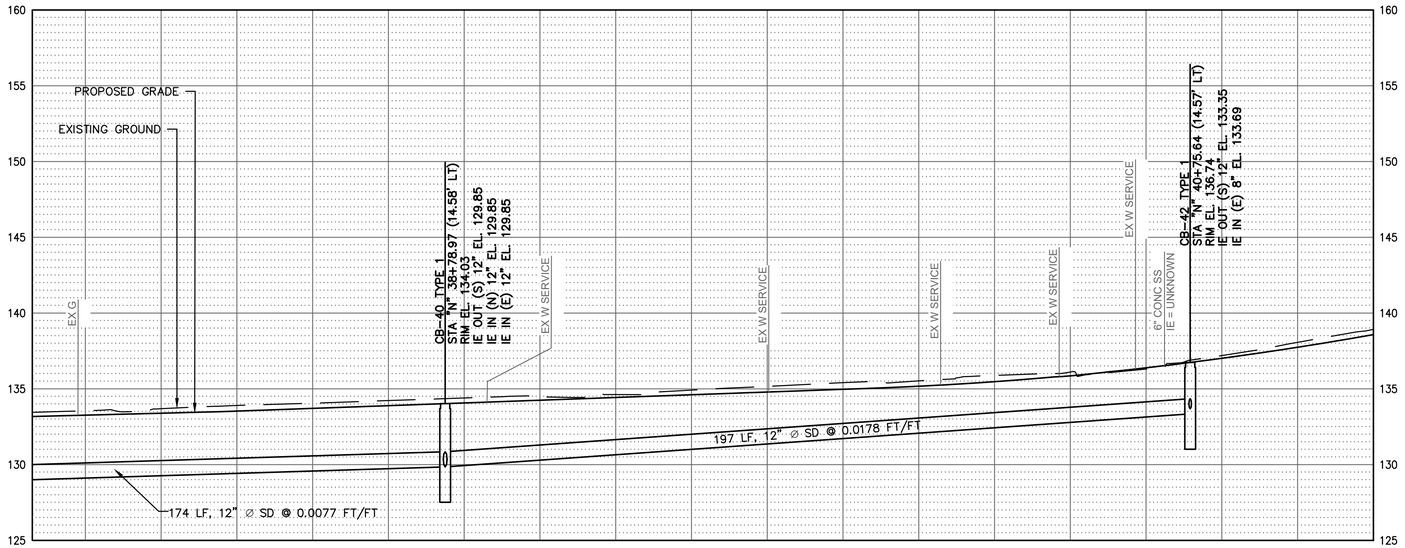
DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 33+00 TO STA 38+00

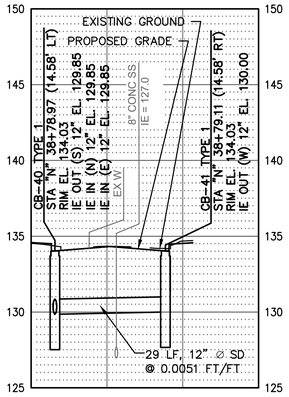
P.N. PROJNUM

DR6
SHEET
127
OF
179

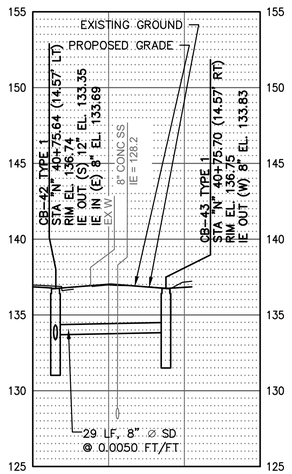




CB-40 - CB-42 PROFILE



CB-40 - CB-41 PROFILE



CB-42 - CB-43 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
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10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

CAMERON CRAIG FRENCH STATE OF WASHINGTON 21018797 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

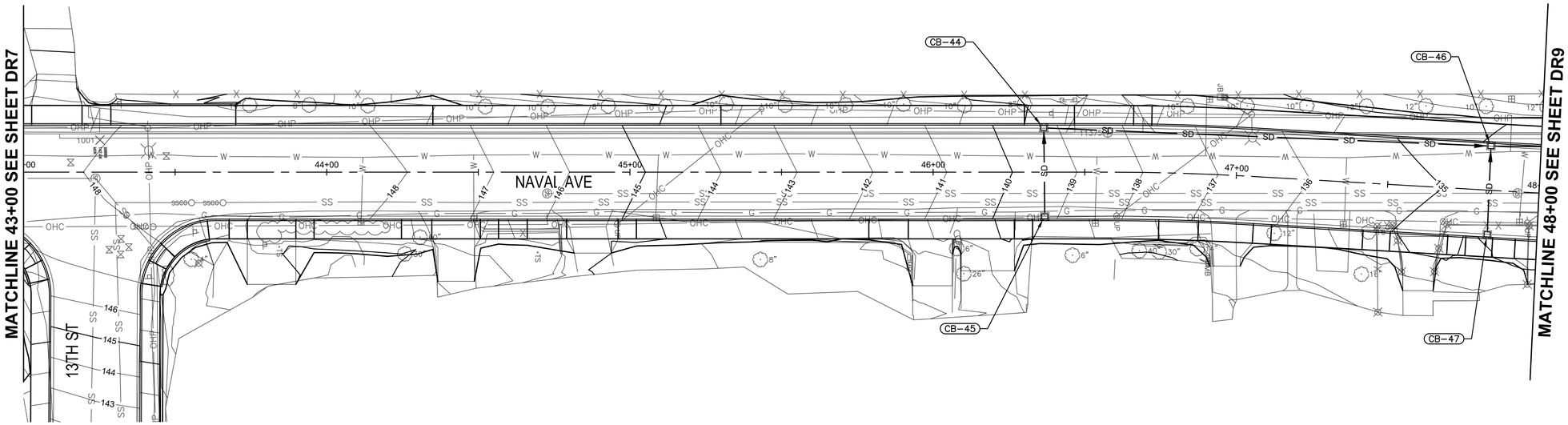
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

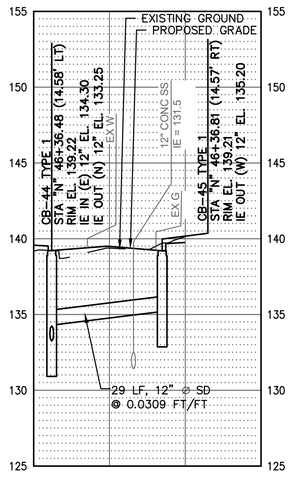
DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 38+00 TO STA 43+00

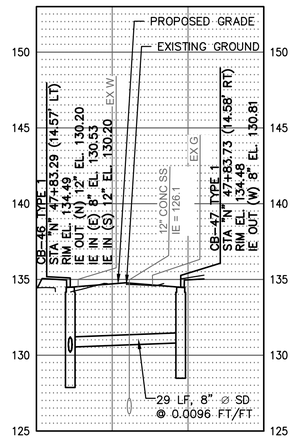
PN. PROJNUM

DR7
SHEET
128
OF
179

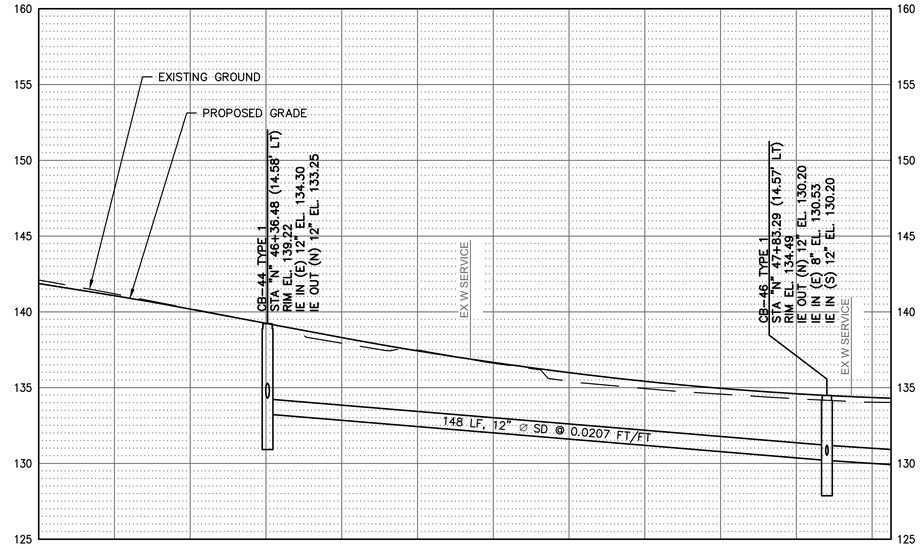




CB-44 - CB-45 PROFILE



CB-46 - CB-47 PROFILE



CB-44 - CB-46 PROFILE

GENERAL NOTES

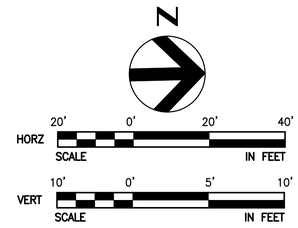
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
7. ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR 2024 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
8. NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
9. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES NOT SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF THE EFFECTED CONSTRUCTION.
10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID



CAD FILE:

ENGINEER STAMP
CAMERON CRAIG FRENCH
STATE OF WASHINGTON
21018737
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

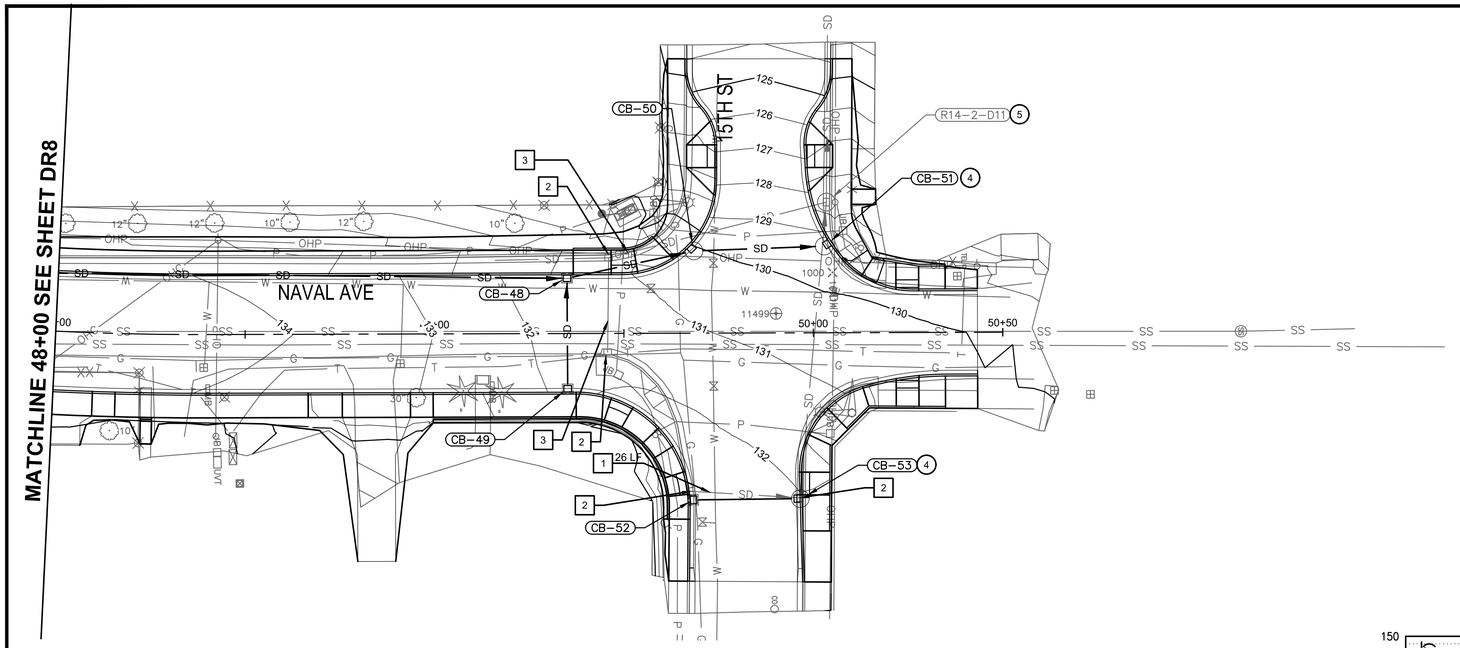
DRAWN BY: C. FRENCH DATE ---
DESIGN BY: C. FRENCH WASH. P.E. # --- DATE ---
CHECKED BY: T. JOHNSON WASH. P.E. # --- DATE ---

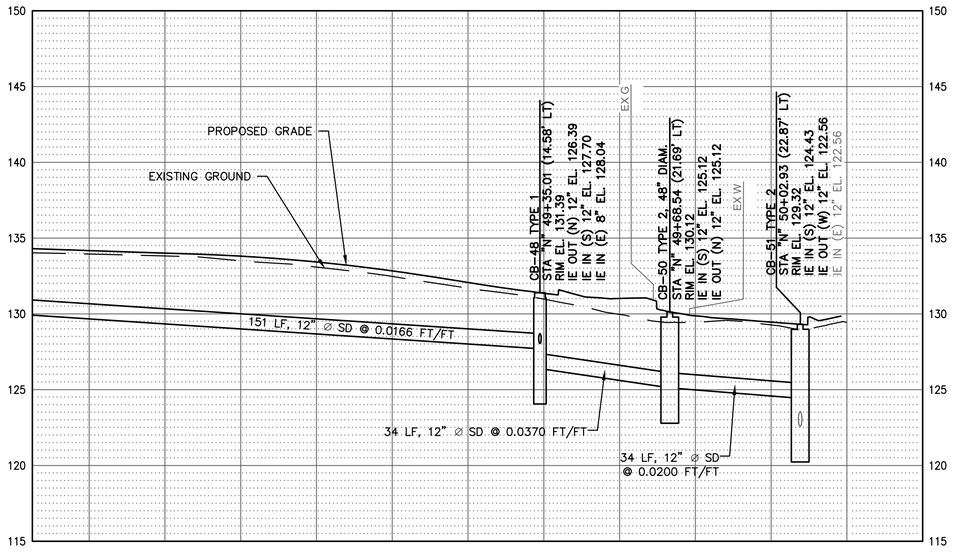
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT DRAINAGE PLANS AND PROFILES STA 43+00 TO STA 48+00

PN: PROJNUM

DR8
SHEET
129
OF
179

MATCHLINE 48+00 SEE SHEET DR8





CB-48 - CB-51 PROFILE

CB-48 - CB-49 PROFILE

CB-52 - R14-2-D11 PROFILE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. SEE SHEETS UT1 TO UT5 FOR STORM CONFLICT LOCATIONS.
3. REPLACE FRAMES AND COVERS FOR ALL STORM DRAINAGE STRUCTURES WITHIN PAVING LIMITS.
4. PIPE ZONE BEDDING AND BACKFILL SHALL BE PER WSDOT STD SPEC 9-03.12(3).
5. NEW "SD" PIPE SHALL BE POLYPROPYLENE STORM SEWER PIPE PER WSDOT STD SPEC 9-05.24.
6. NEW TYPE 1 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-5.20. NEW TYPE 2 CATCH BASINS SHALL BE PER WSDOT STD PLAN B-10.20.
7. ALL WORK AND MATERIALS SHALL CONFORM TO CITY STANDARDS AND/OR 2024 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
8. NO PART OF THE DRAINAGE SYSTEM SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN TESTED AND TESTING OBSERVED BY CITY INSPECTOR.
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10. ALL STORM DRAIN WORK MUST BE STAKED FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.

REMOVAL NOTES

1. REMOVE STORM DRAIN PIPE
2. REMOVE STORM DRAIN CB
3. PLUG AND ABANDON STORM DRAIN PIPE PER WSDOT STD SPEC 7-08.3(4)

CONSTRUCTION NOTES

1. CONNECTION TO DRAINAGE STRUCTURE
2. NOTE NOT USED
3. ADJUST CATCH BASIN
4. CONNECTION TO EXISTING STORM DRAIN PIPE
5. INSTALL NEW SOLID LID

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

VERT SCALE: 10' 0' 5' 10' IN FEET

CAD FILE:

ENGINEER STAMP
CAMERON CRAIG FRENCH
STATE OF WASHINGTON
21018737
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. SHOWN VERT. N/A

FIELD BOOK

DRAWING NO.

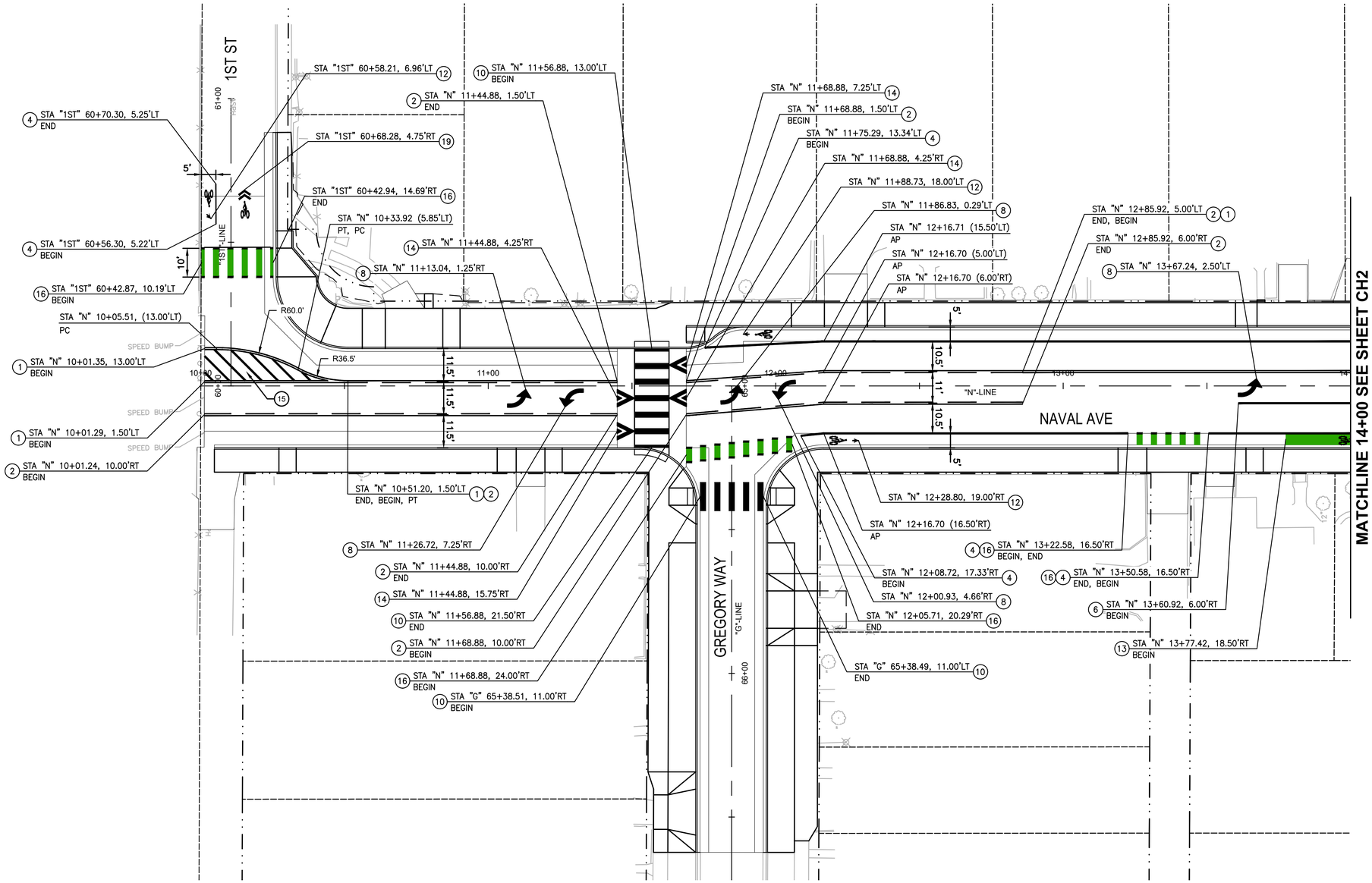
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: C. FRENCH DATE ---
DESIGN BY: C. FRENCH WASH. P.E. # --- DATE ---
CHECKED BY: T. JOHNSON WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
DRAINAGE PLANS AND PROFILES
STA 48+00 TO END

PN: PROJNUM

DR9
SHEET
130
OF
179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
4. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04
5. YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
6. WHITE PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-04
7. WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10-04
8. WHITE PLASTIC ARROW SYMBOL PER COB STD DETAIL 3267
9. WHITE PLASTIC STOP BAR (24-IN) PER COB STD DETAIL 3265
10. WHITE PLASTIC CROSSWALK BAR (2-FT x 9-FT) PER COB STD DETAIL 3257
11. GREEN BIKE BOX GORE AREA PER DETAIL 3 ON SHEET CHD1
12. WHITE BICYCLE LANE MARKINGS PER COB STD DETAIL 3258
13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M-24.60-04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. CHANNELIZATION MARKINGS TO BE RESTORED ON PRIVATE PROPERTIES ARE NOT SHOWN. REFER TO THE DW SHEETS FOR ADDITIONAL INFORMATION.
3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

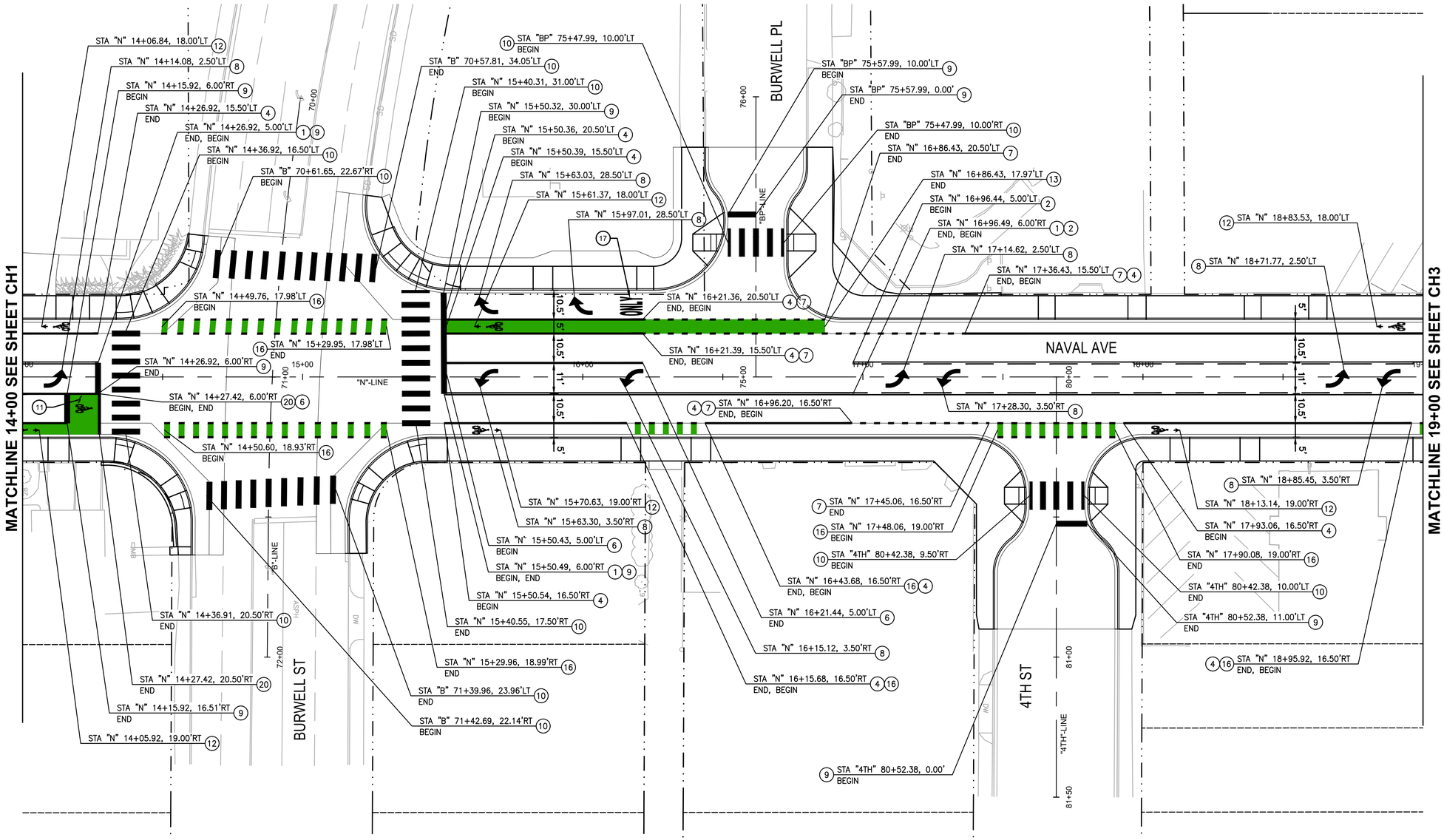
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN BEGIN TO STA 14+00

PN: PROJNUM

CH1
SHEET
131
OF
179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
4. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04
5. YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
6. WHITE PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-04
7. WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10-04
8. WHITE PLASTIC ARROW SYMBOL PER COB STD DETAIL 3267
9. WHITE PLASTIC STOP BAR (24-IN) PER COB STD DETAIL 3265
10. WHITE PLASTIC CROSSWALK BAR (2-FT x 9-FT) PER COB STD DETAIL 3257
11. GREEN BIKE BOX GORE AREA PER DETAIL 3 ON SHEET CHD1
12. WHITE BICYCLE LANE MARKINGS PER COB STD DETAIL 3258
13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M-24.60-04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. CHANNELIZATION MARKINGS TO BE RESTORED ON PRIVATE PROPERTIES ARE NOT SHOWN. REFER TO THE DW SHEETS FOR ADDITIONAL INFORMATION.
3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

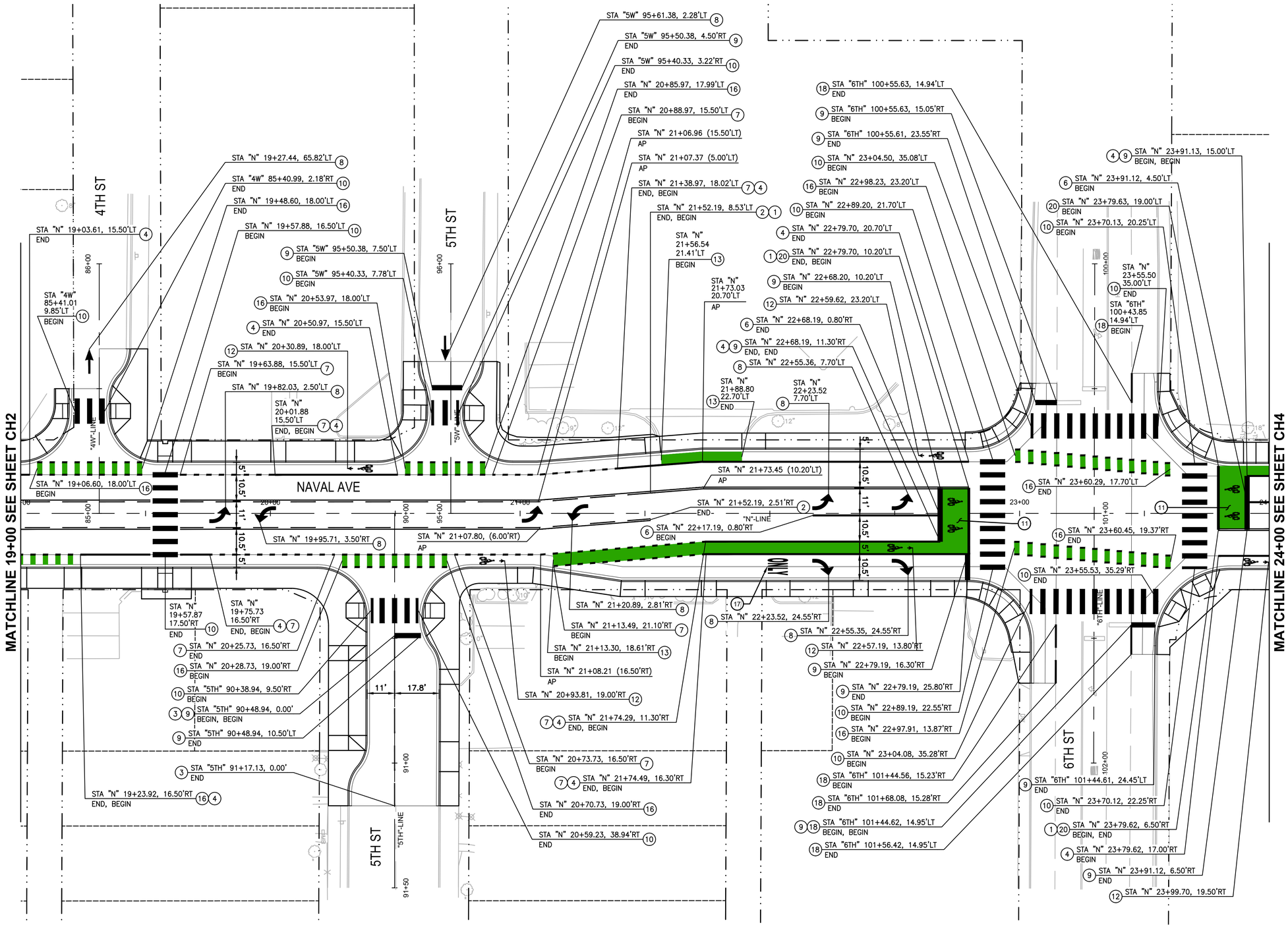
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CHANNELIZATION PLAN
STA 14+00 TO STA 19+00

PN: PROJNUM

CH2 SHEET 132 OF 179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
4. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04
5. YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
6. WHITE PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-04
7. WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10-04
8. WHITE PLASTIC ARROW SYMBOL PER COB STD DETAIL 3267
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11. GREEN BIKE BOX GORE AREA PER DETAIL 3 ON SHEET CHD1
12. WHITE BICYCLE LANE MARKINGS PER COB STD DETAIL 3258
13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M-24.60-04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. CHANNELIZATION MARKINGS TO BE RESTORED ON PRIVATE PROPERTIES ARE NOT SHOWN. REFER TO THE DW SHEETS FOR ADDITIONAL INFORMATION.
3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

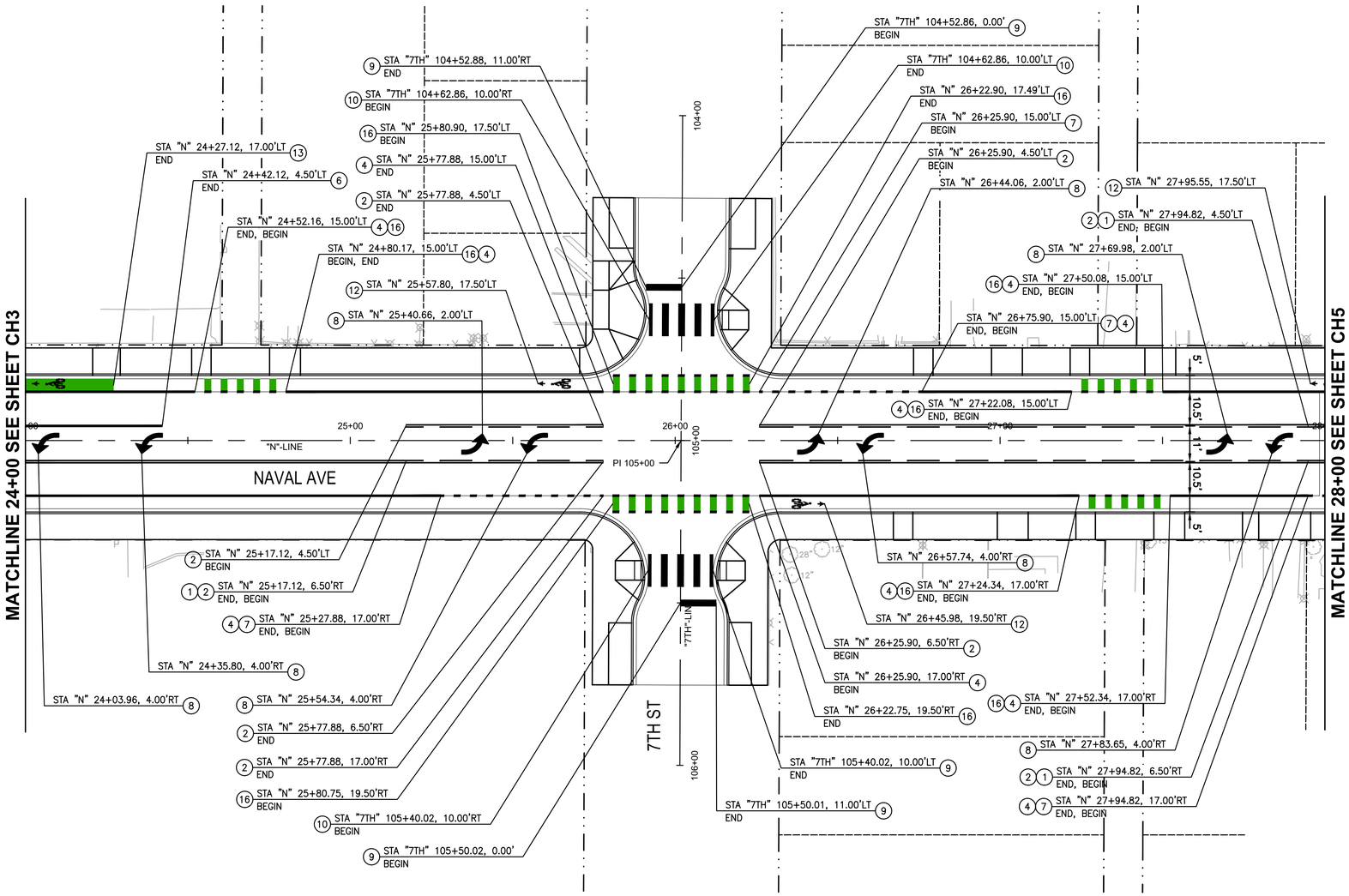
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 19+00 TO STA 24+00

PN: PROJNUM

CH3
SHEET
133
OF
179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
4. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04
5. YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
6. WHITE PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-04
7. WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10-04
8. WHITE PLASTIC ARROW SYMBOL PER COB STD DETAIL 3267
9. WHITE PLASTIC STOP BAR (24-IN) PER COB STD DETAIL 3265
10. WHITE PLASTIC CROSSWALK BAR (2-FT x 9-FT) PER COB STD DETAIL 3257
11. GREEN BIKE BOX GORE AREA PER DETAIL 3 ON SHEET CHD1
12. WHITE BICYCLE LANE MARKINGS PER COB STD DETAIL 3258
13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M-24.60-04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. CHANNELIZATION MARKINGS TO BE RESTORED ON PRIVATE PROPERTIES ARE NOT SHOWN. REFER TO THE DW SHEETS FOR ADDITIONAL INFORMATION.
3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP: ROBERT C. ACEVEDO, STATE OF WASHINGTON, 55471, REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

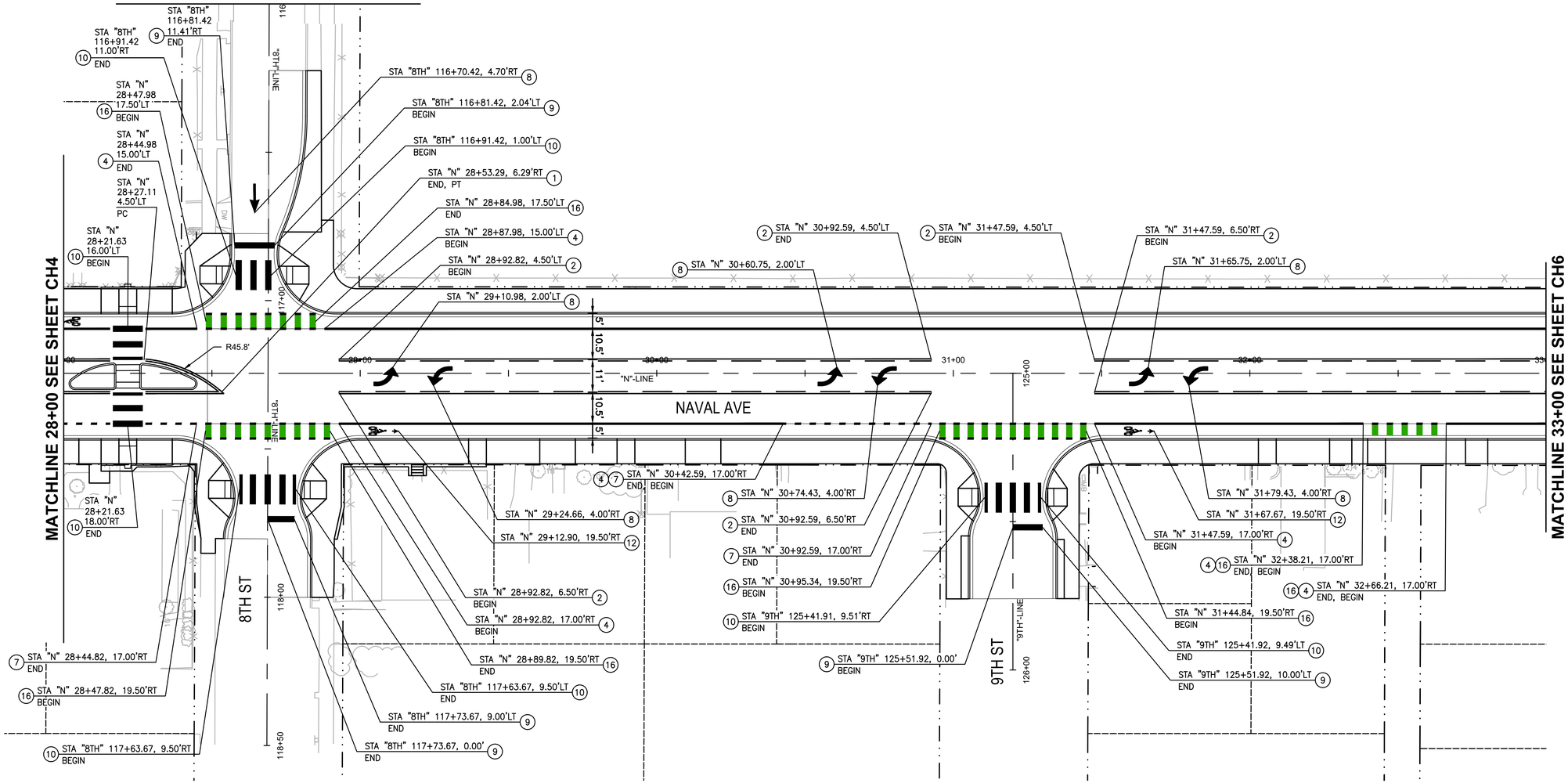
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 24+00 TO STA 28+00

PN: PROJNUM

CH4 SHEET 134 OF 179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
4. WHITE EDGE LINE PER WSDOT STD PLAN M–20.10–04
5. YELLOW EDGE LINE PER WSDOT STD PLAN M–20.10–04
6. WHITE PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M–20.10–04
7. WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M–20.10–04
8. WHITE PLASTIC ARROW SYMBOL PER COB STD DETAIL 3267
9. WHITE PLASTIC STOP BAR (24–IN) PER COB STD DETAIL 3265
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11. GREEN BIKE BOX GORE AREA PER DETAIL 3 ON SHEET CHD1
12. WHITE BICYCLE LANE MARKINGS PER COB STD DETAIL 3258
13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M–24.60–04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12–IN) PER COB STD DETAIL 3265

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. CHANNELIZATION MARKINGS TO BE RESTORED ON PRIVATE PROPERTIES ARE NOT SHOWN. REFER TO THE DW SHEETS FOR ADDITIONAL INFORMATION.
3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

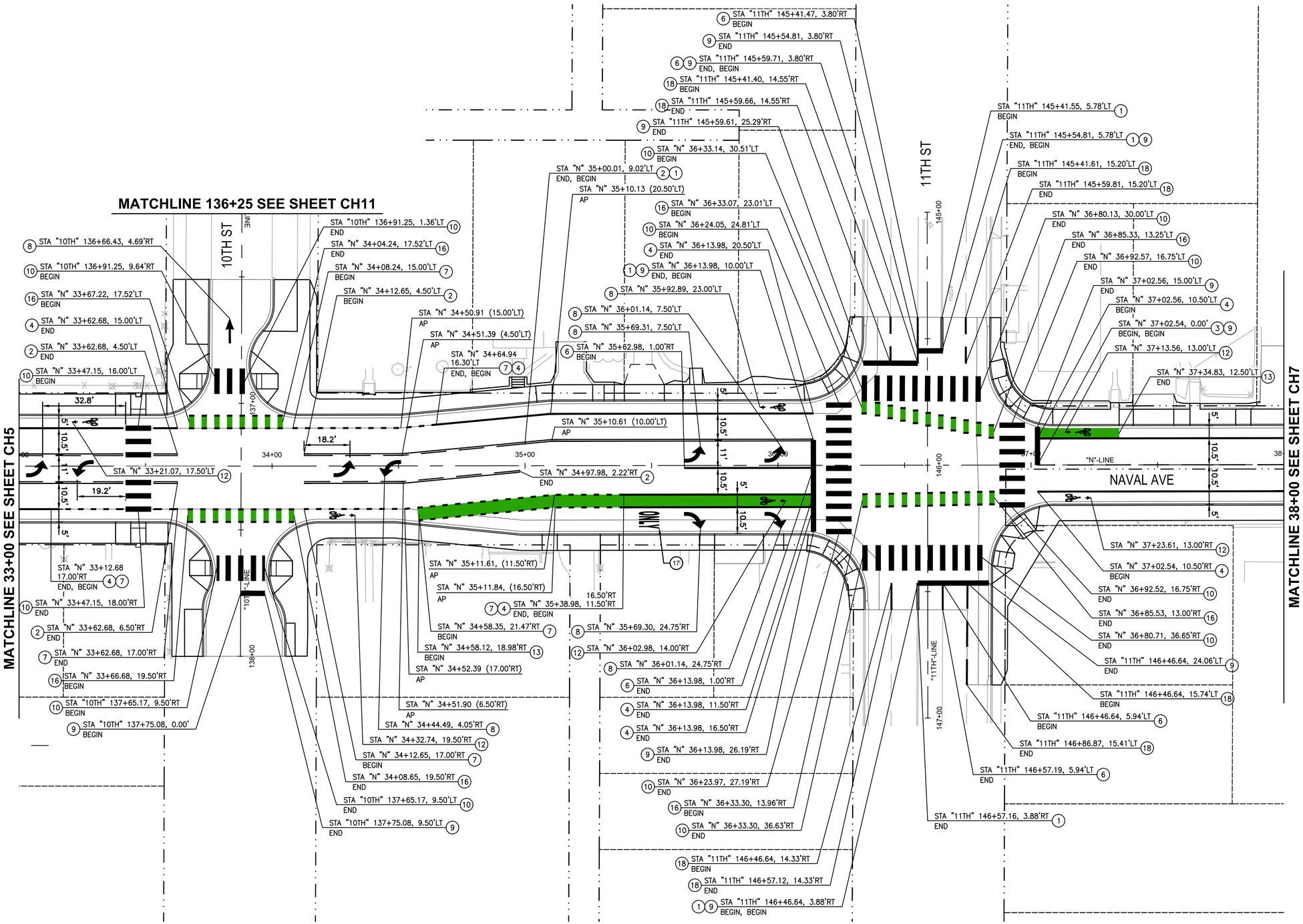
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 28+00 TO STA 33+00

PN: PROJNUM

CH5 SHEET 135 OF 179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
4. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04
5. YELLOW EDGE LINE PER WSDOT STD PLAN M-20.10-04
6. WHITE PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-04
7. WHITE DOTTED EXTENSION LINE PER WSDOT STD PLAN M-20.10-04
8. WHITE PLASTIC ARROW SYMBOL PER COB STD DETAIL 3267
9. WHITE PLASTIC STOP BAR (24-IN) PER COB STD DETAIL 3265
10. WHITE PLASTIC CROSSWALK BAR (2-FT x 9-FT) PER COB STD DETAIL 3257
11. GREEN BIKE BOX GORE AREA PER DETAIL 3 ON SHEET CHD1
12. WHITE BICYCLE LANE MARKINGS PER COB STD DETAIL 3258
13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M-24.60-04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. CHANNELIZATION MARKINGS TO BE RESTORED ON PRIVATE PROPERTIES ARE NOT SHOWN. REFER TO THE DW SHEETS FOR ADDITIONAL INFORMATION.
3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

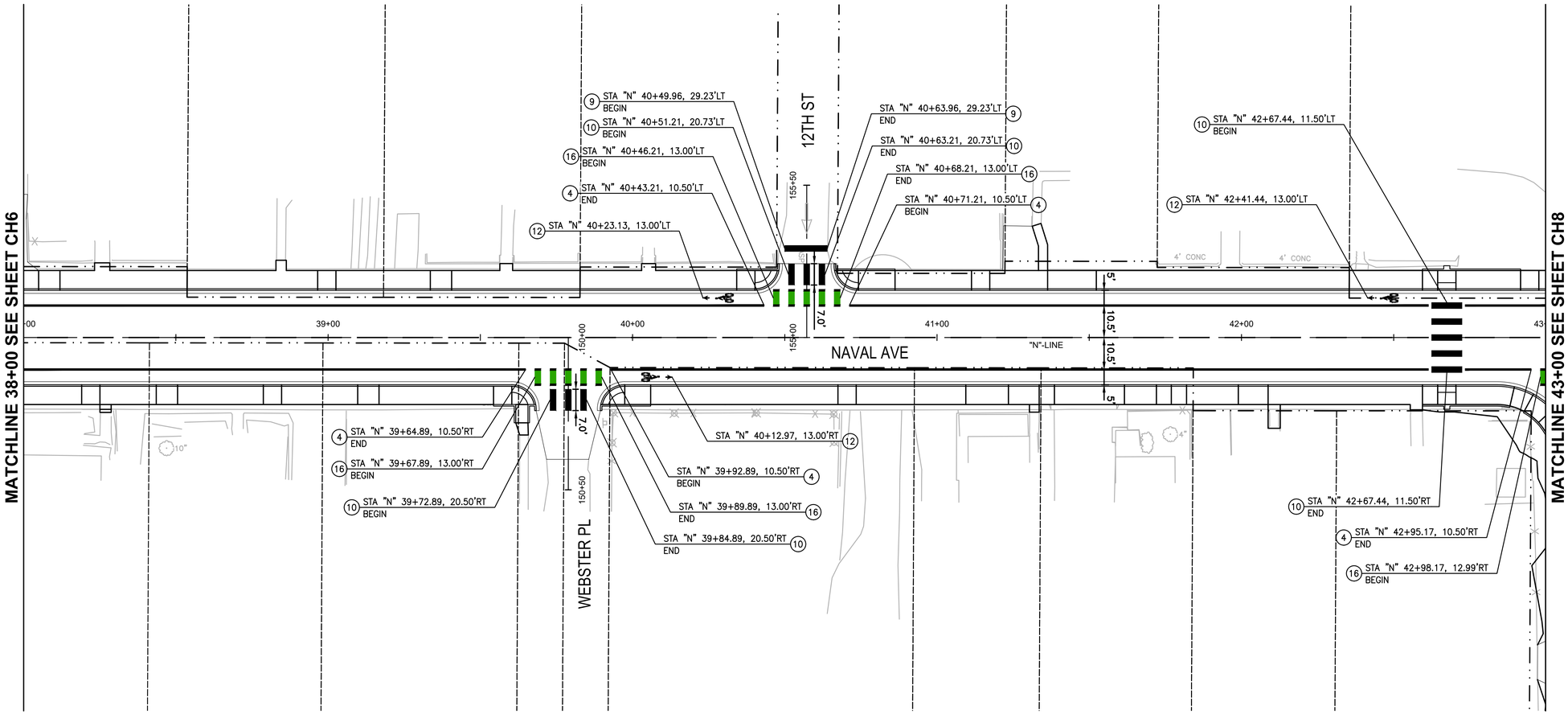
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 33+00 TO STA 38+00

PN: PROJNUM

CH6
SHEET
136
OF
179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
3. YELLOW SKIP RPM LINE PER COB STD DETAIL 3262
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13. GREEN BIKE LANE GORE AREA
14. WHITE PLASTIC SPEED BUMP SYMBOL PER WSDOT STD PLAN M-24.60-04
15. YELLOW CROSSHATCH MARKING PER DETAIL 2 ON SHEET CHD1
16. BICYCLE CROSSING PER DETAIL 1 ON SHEET CHD1
17. WHITE PLASTIC TRAFFIC LETTERS PER DETAIL 5 ON SHEET CHD1
18. WHITE SKIP RPM LINE PER COB STD DETAIL 3262
19. WHITE PLASTIC SHARED LANE MARKING PER DETAIL 4 ON SHEET CHD1
20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

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3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

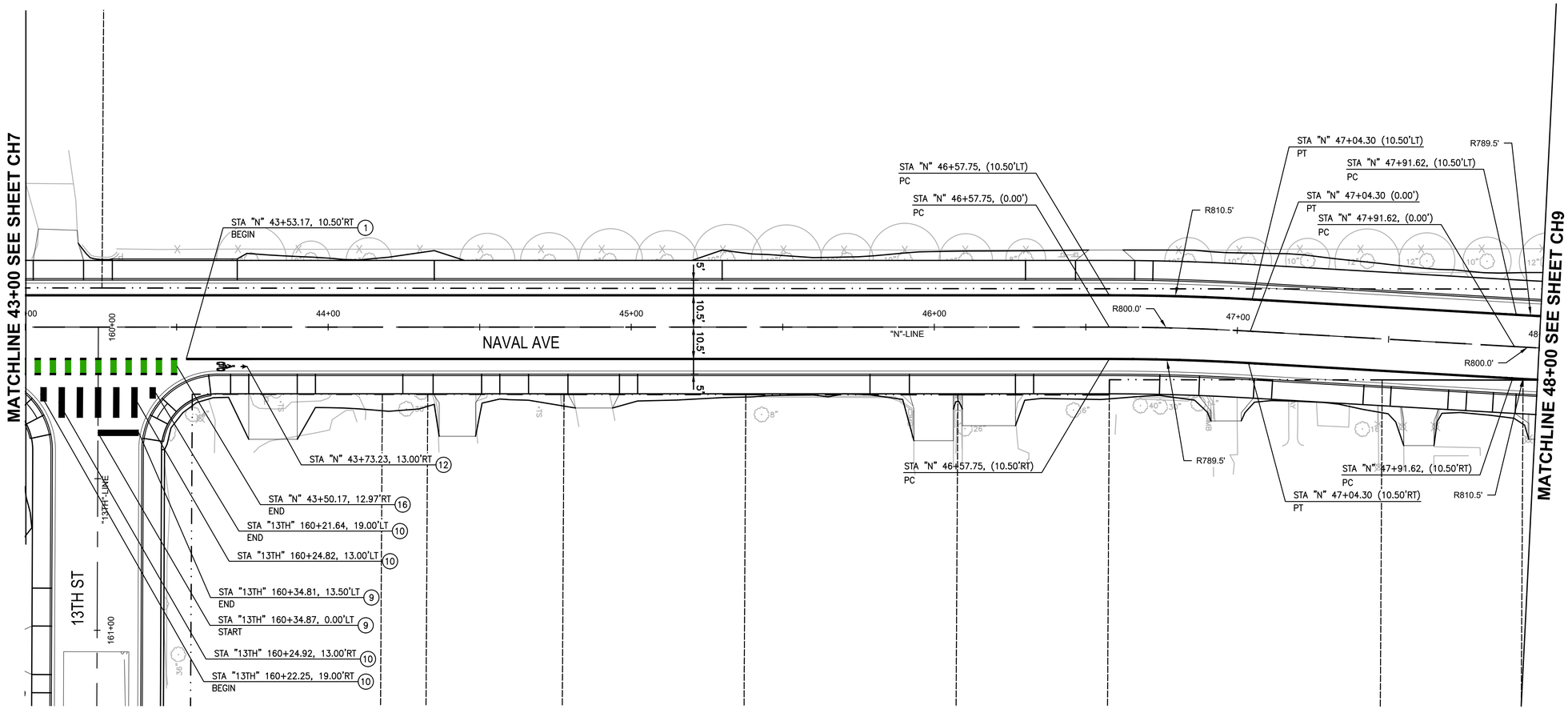
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 38+00 TO STA 43+00

PN: PROJNUM

CH7
SHEET
137
OF
179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
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20. WHITE PLASTIC BICYCLE STOP BAR (12-IN) PER COB STD DETAIL 3265

GENERAL NOTES

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3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

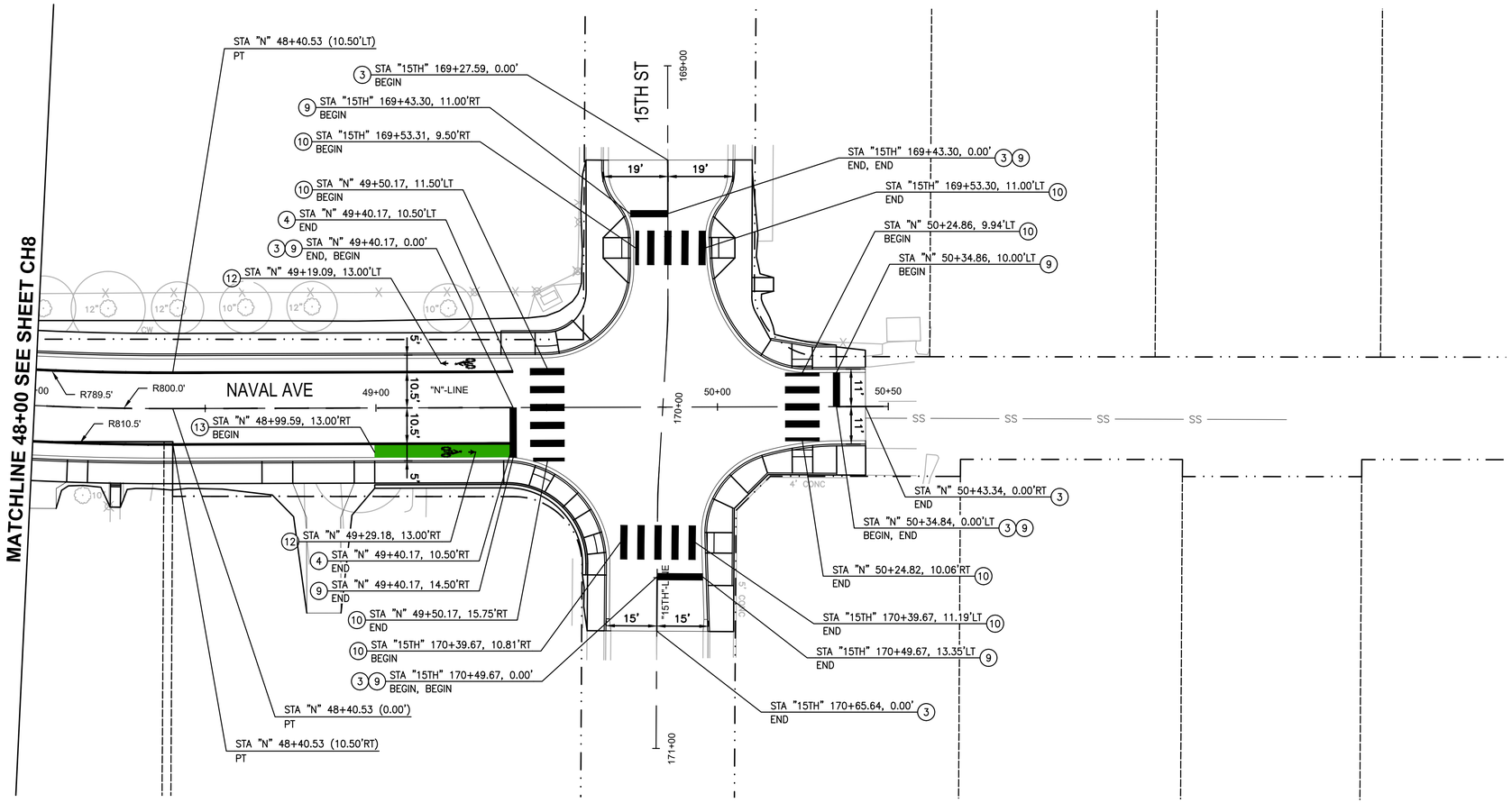
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 43+00 TO STA 48+00

PN: PROJNUM

CH8
SHEET
138
OF
179



CONSTRUCTION NOTES

1. YELLOW DOUBLE RPM LINE PER COB STD DETAIL 3262
2. YELLOW TWO WAY LEFT TURN RPM LINE PER COB STD DETAIL 3262
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GENERAL NOTES

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3. FOR SIGNING DETAILS, REFER TO SN SHEETS.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

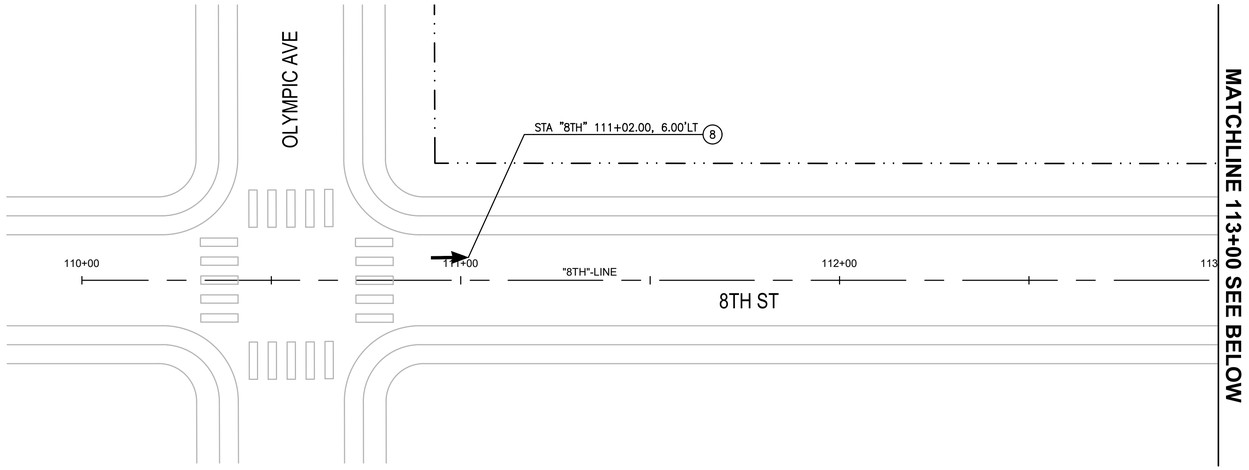
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

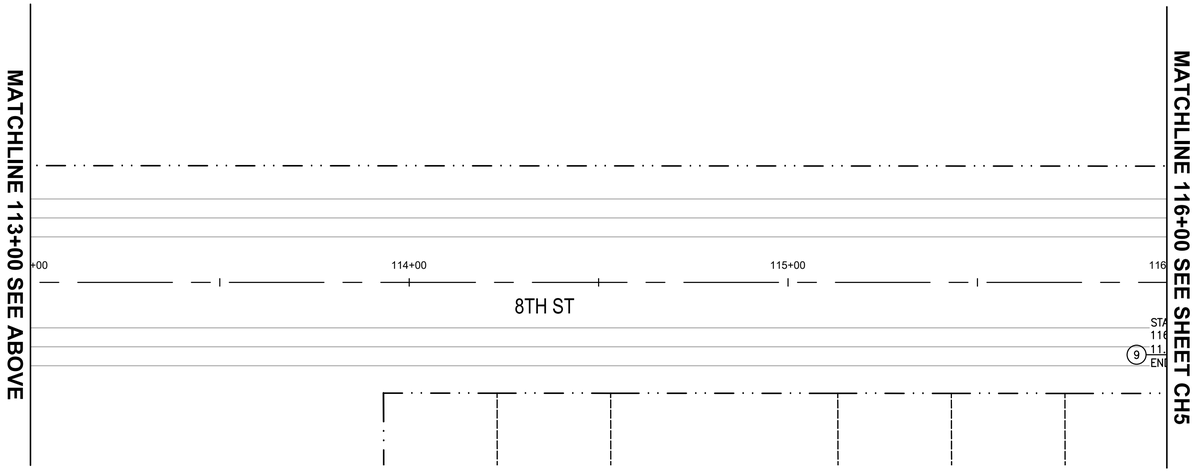
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN STA 48+00 TO END

PN: PROJNUM

CH9
SHEET
139
OF
179





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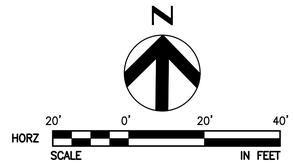


CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

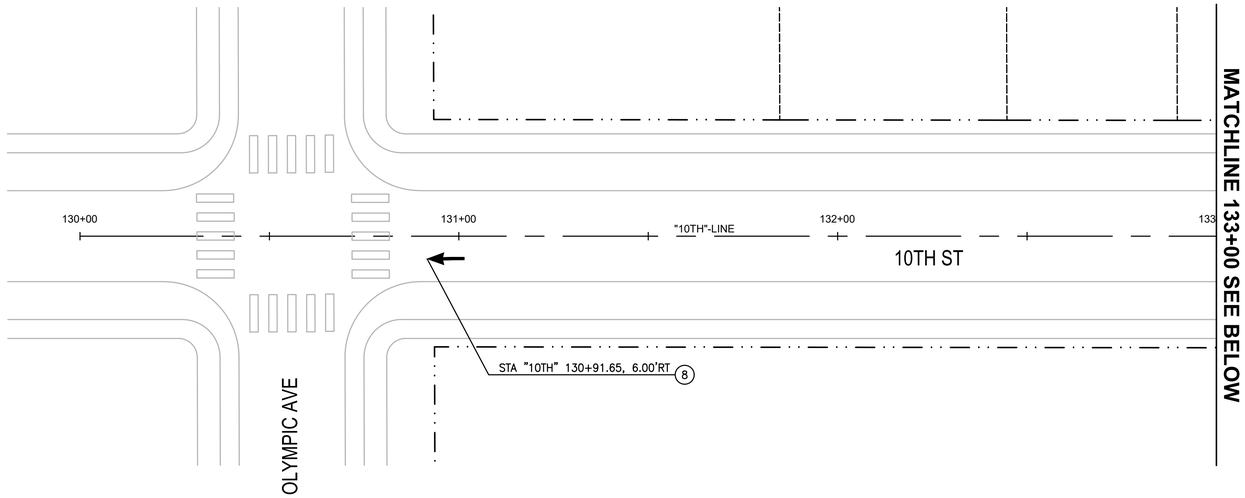
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

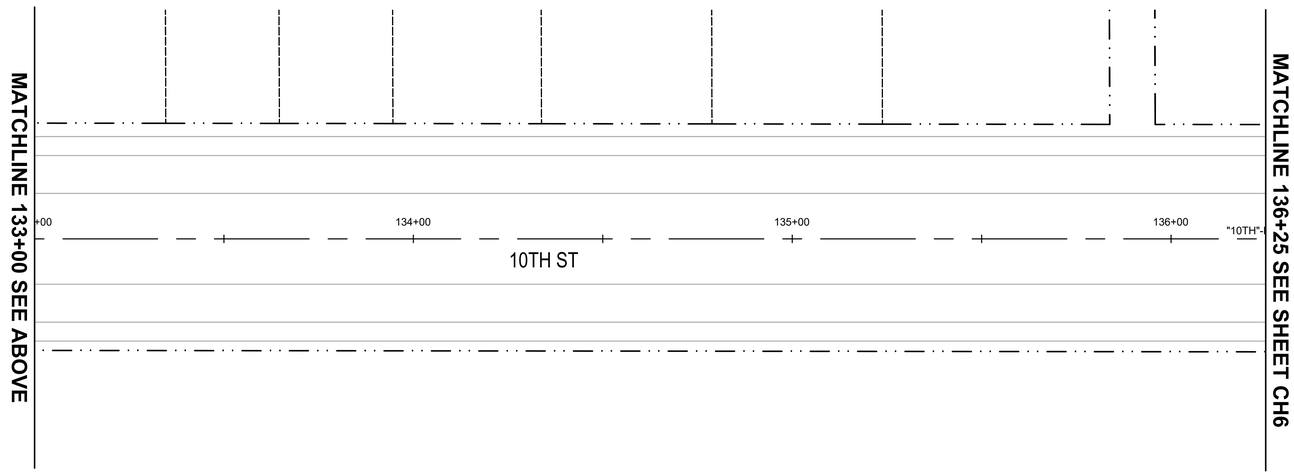
DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
CHANNELIZATION PLAN
BEGIN 8TH ST TO STA 117+50

PN: PROJNUM

CH10
SHEET
140
OF
179





CONSTRUCTION NOTES

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GENERAL NOTES

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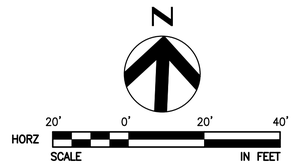


CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

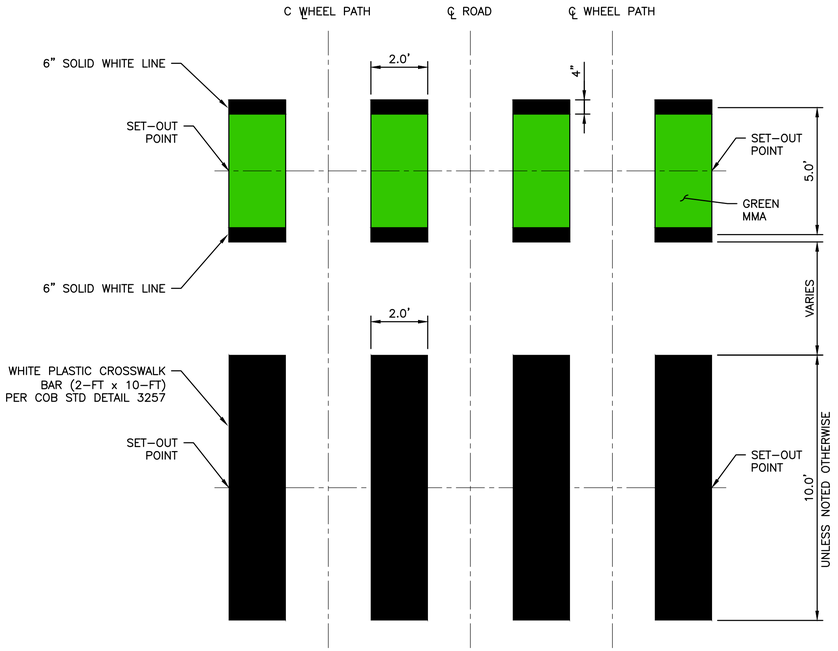
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

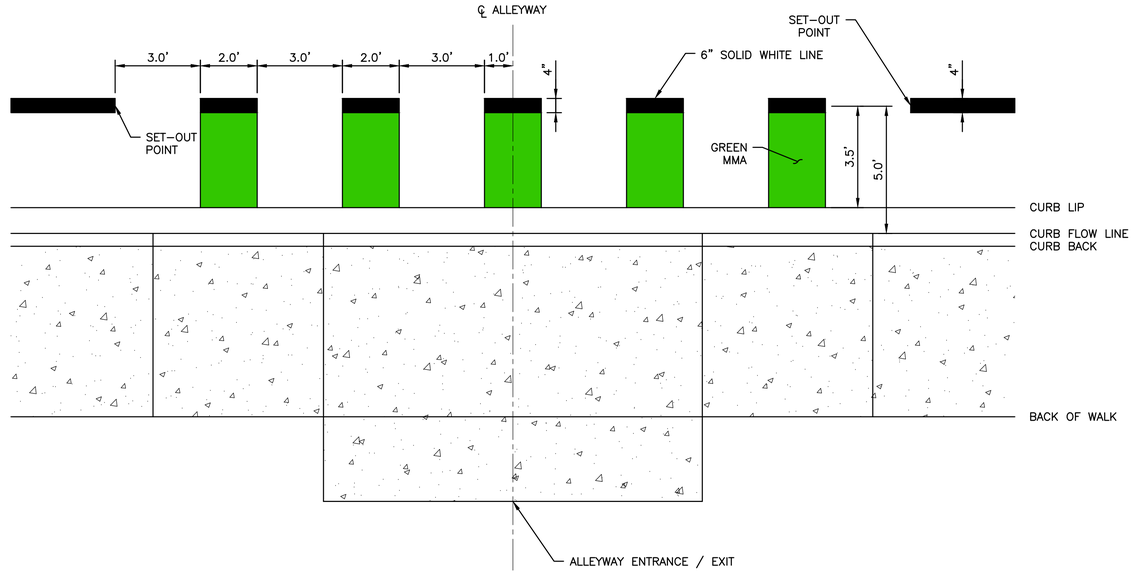
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT CHANNELIZATION PLAN BEGIN 10TH ST TO STA 136+50

P.N. PROJNUM

CH11
SHEET
141
OF
179

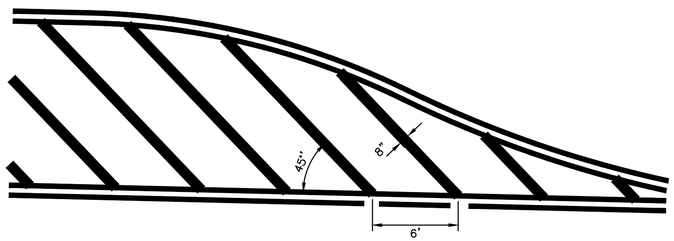


INTERSECTION CROSSING

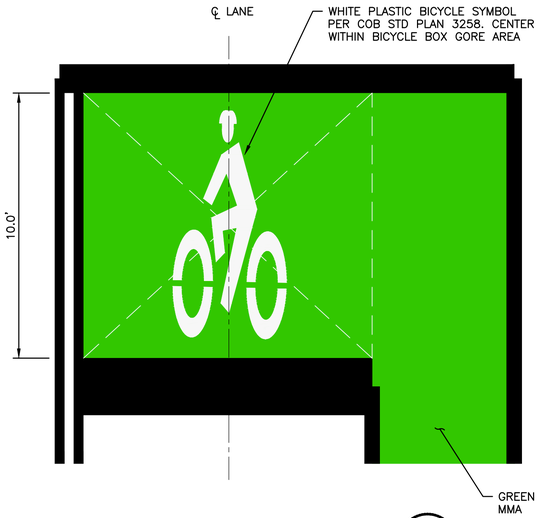


ALLEYWAY CROSSING

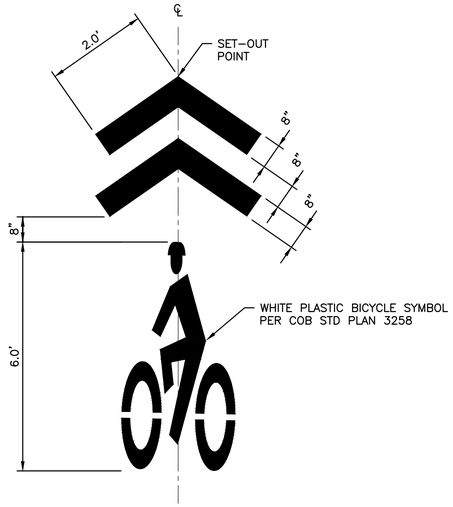
BICYCLE CROSSING (1)
NOT TO SCALE



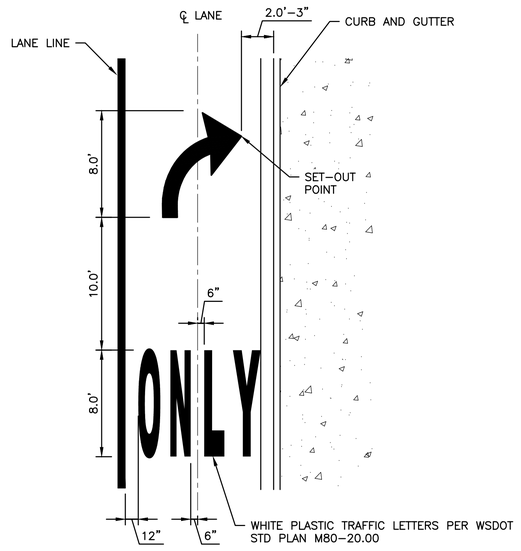
YELLOW CROSSHATCH MARKING (2)
NOT TO SCALE



BICYCLE BOX GORE AREA (3)
NOT TO SCALE



SHARED LANE MARKING (4)
NOT TO SCALE



TRAFFIC LETTER DETAIL (5)
NOT TO SCALE

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
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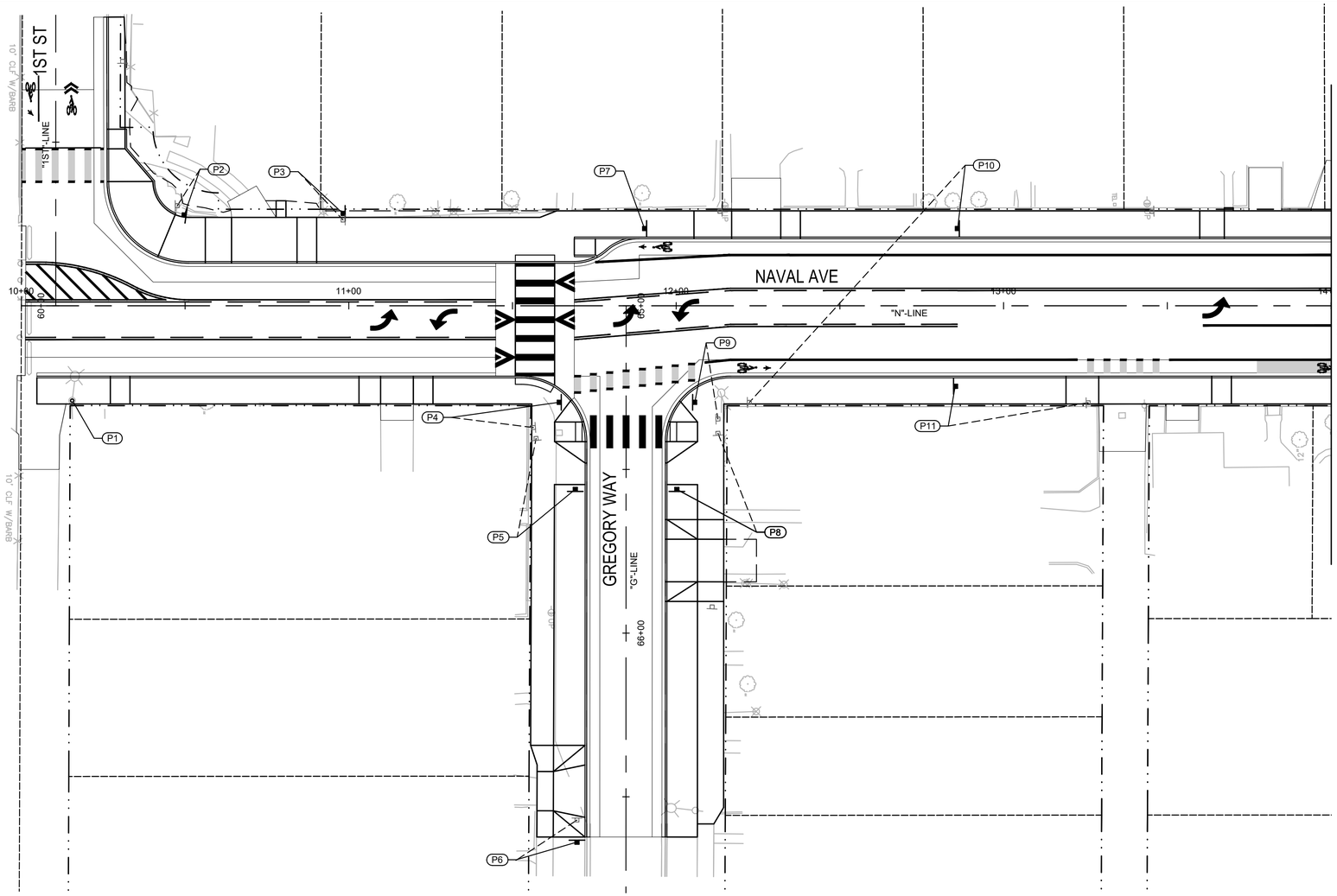
NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT PAVEMENT MARKING DETAILS

PN: PROJNUM

CHD1
SHEET
142
OF
179



GENERAL NOTES

1. ALL REMOVED SIGNS SHALL REMAIN THE PROPERTY OF THE CITY OF BREMERTON UNLESS NOTED OTHERWISE.
2. FOR SIGN INSTALLATION DETAILS, REFER TO COB STD PLAN 3251.
3. FOR STREET NAME SIGN DETAILS, REFER TO COB STD PLAN 3253.
4. FOR STREET NAME SIGN MAST ARM MOUNT DETAILS, REFER TO COB STD PLAN 3254.
5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST-ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P1	DO NOT ENTER	R5-1	S	STA "N" 10+16 (28.98' RT)	30X30	LUMINAIRE POLE	REPLACE EX. ON LUMINARE POLE
P2	1ST STREET ONE WAY	D3-1 R6-2R	N/S NE	STA "N" 10+50 (27.72' LT)	VARIESX12 24X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P3	RIGHT LANE MUST TURN RIGHT	R3-7R	N	STA "N" 10+98 (28.20' LT)	30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P4	GREGORY WAY DO NOT ENTER ONE WAY	D3-1 R5-1 R6-1R	N/S N N	STA "N" 11+64 (29.49' RT)	VARIESX12 30x30 36x12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P5	STOP NO LEFT TURNS 6AM TO 9AM MON THRU FRI	R1-1 CUSTOM	E	STA "N" 11+69 (56.11' RT)	30x30 CUSTOM	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P6	WRONG WAY	R5-1A	W	STA "N" 11+70 (163.86' RT)	36X24	STEEL, 2.5" SQC., 12'	RELOCATE EX.

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P7	BIKE LANE ENDS	R3-17 R3-17bP	N N	STA "N" 11+90 (23.62' LT)	30X24 30X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P8	STOP NO LEFT TURNS 6AM TO 9AM MON THRU FRI	R1-1 CUSTOM	E	STA "N" 12+00 (56.12' RT)	30x30 CUSTOM	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P9	DO NOT ENTER ONE WAY	R5-1 R6-1L	N/S S	STA "N" 12+06 (29.48' RT)	30x30 36x12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P10	BEGIN CENTER LANE	CUSTOM	N	STA "N" 12+86 (23.60' LT)	CUSTOM	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P11	END CENTER LANE	CUSTOM	S	STA "N" 12+85 (24.60' RT)	CUSTOM	STEEL, 2.5" SQC., 12'	RELOCATE EX.

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS

NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

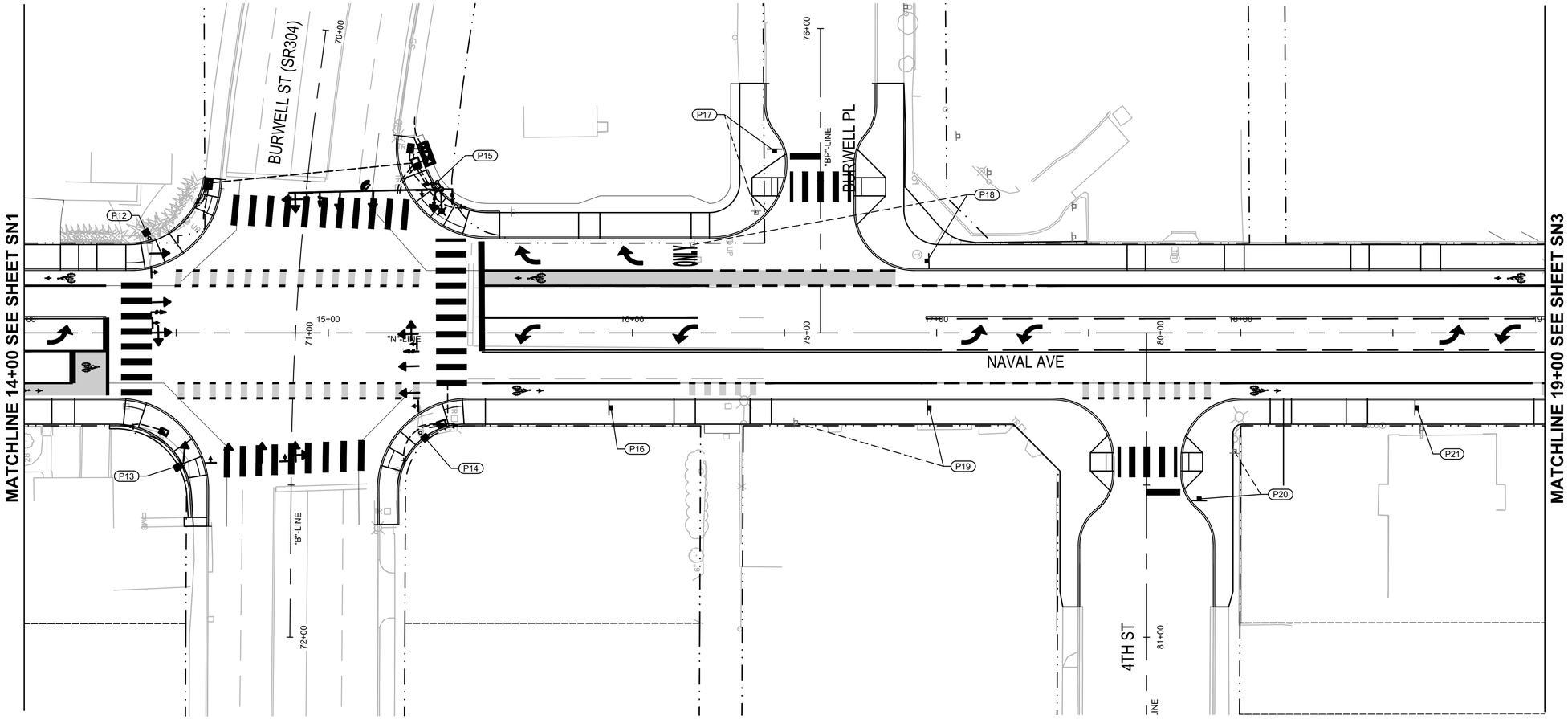
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE BEGIN TO STA 14+00

PN: PROJNUM

SN1
SHEET
143
OF
179



GENERAL NOTES

1. ALL REMOVED SIGNS SHALL REMAIN THE PROPERTY OF THE CITY OF BREMERTON UNLESS NOTED OTHERWISE.
2. FOR SIGN INSTALLATION DETAILS, REFER TO COB STD PLAN 3251.
3. FOR STREET NAME SIGN DETAILS, REFER TO COB STD PLAN 3253.
4. FOR STREET NAME SIGN MAST ARM MOUNT DETAILS, REFER TO COB STD PLAN 3254.
5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST–ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE							
SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P12	BURWELL ST	D3–1	N	STA "N" 14+41 (31.02' LT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P13	NAVAL AVE	D3–1	W	STA "N" 14+52 (43.19' RT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P14	BURWELL ST	D3–1	S	STA "N" 15+30 (32.83' RT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P15	NAVAL AVE WEST 304	D3–1 M1–701 (WSDOT)	E	STA "N" 15+36 (49.57' LT)	VARIESX12 24X36	MAST ARM MAST ARM POLE	REPLACE EX. REFER SG SHEETS
P16	SPEED LIMIT 25	R2–1	S	STA "N" 15+93 (24.60' RT)	18X24	STEEL, 2.5" SQC., 12'	INSTALL NEW
P17	BURWELL PL NAVAL AVE STOP	D3–1 D3–1 R1–1	N/S E/W W	STA "N" 16+47 (59.78' LT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.

SIGN SCHEDULE							
SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P18	END CENTER LANE	CUSTOM	N	STA "N" 16+97 (23.61' LT)	CUSTOM	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P19	BEGIN CENTER LANE	CUSTOM	S	STA "N" 16+98 (24.60' RT)	CUSTOM	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P20	4TH STREET NAVAL AVE STOP	D3–1 D3–1 R1–1	N/S E/W E	STA "N" 17+86 (54.56' RT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P21	PEDESTRIAN AHEAD	W11–2 W16–9P	S S	STA "N" 18+58 (24.60' RT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---

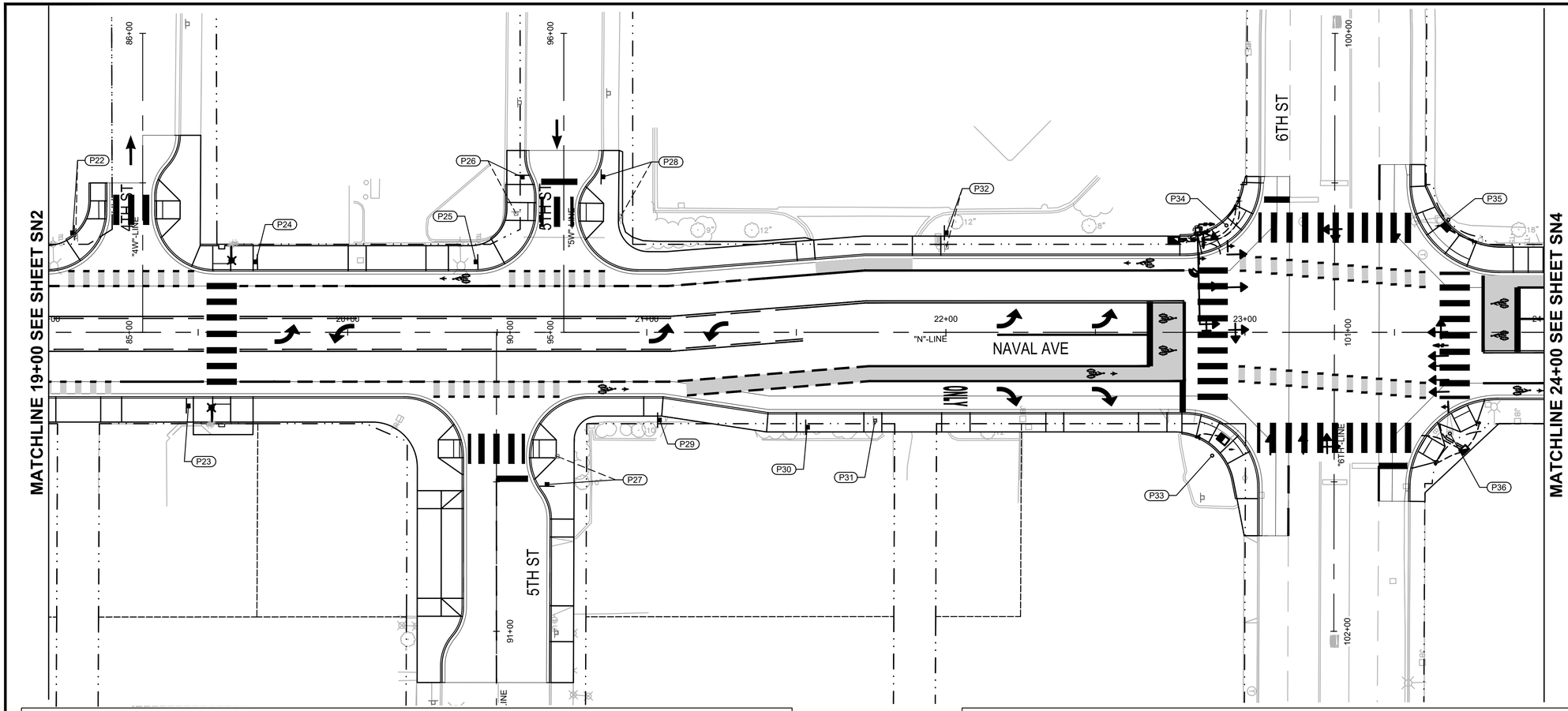
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE STA 14+00 TO STA 19+00

PN: PROJNUM

SN2 SHEET 144 OF 179



GENERAL NOTES

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3. FOR STREET NAME SIGN DETAILS, REFER TO COB STD PLAN 3253.
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5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST–ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P22	4TH STREET ONE WAY ONE WAY	D3–1 R6–1R R6–1L	N/S N S	STA "N" 19+08 (33.32' LT)	VARIESX12 36X12 36X12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P23	PEDESTRIAN DOWNWARD DIAGONAL ARROW	W11–2 W16–7pL	S S	STA "N" 19+47 (24.60' RT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P24	PEDESTRIAN DOWNWARD DIAGONAL ARROW	W11–2 W16–7pL	N N	STA "N" 19+69 (23.60' LT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P25	PEDESTRIAN AHEAD	W11–2 W16–9P	N N	STA "N" 20+43 (23.60' LT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P26	STOP ONE WAY	R6–1 R6–1L	W N	STA "N" 20+58 (51.96' LT)	30x30 36X12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P27	5TH STREET NAVAL AVE STOP	D3–1 D3–1 R1–1	N/S E/W E	STA "N" 20+67 (50.87' RT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P28	5TH STREET DO NOT ENTER ONE WAY	D3–1 R5–1 R6–1R	S	STA "N" 20+85 (52.03' LT)	VARIESX12 30x30 36X12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P29	BEGIN RIGHT TURN LANE YIELD TO BIKES	R4–4	S	STA "N" 21+04 (29.31' RT)	36X30	STEEL, 2.5" SQC., 12'	INSTALL NEW

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P30	END CENTER LANE RIGHT LANE MUST TURN RIGHT	R3–9dP R3–9b R3–7R	S S S	STA "N" 21+54 (31.70' RT)	30X12 24X36 36X36	STEEL, 2.5" SQC., 12'	INSTALL NEW
P31	SCHOOL	S1–1	S	STA "N" 21+76 (29.52' RT)	36X36	STEEL, 2.5" SQC., 12'	REMOVE EX.
P32	BEGIN CENTER LANE	CUSTOM	N	STA "N" 22+00 (33.30' LT)	CUSTOM	UTILITY POLE	RELOCATE EX.
P33	NAVAL AVE	D3–1	W	STA "N" 22+89 (41.23' RT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P34	6TH ST	D3–1	N	STA "N" 22+94 (35.78' LT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P35	NAVAL AVE	D3–1	E	STA "N" 23+68 (37.64' LT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P36	6TH ST	D3–1	S	STA "N" 23+69 (33.83' RT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS

NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

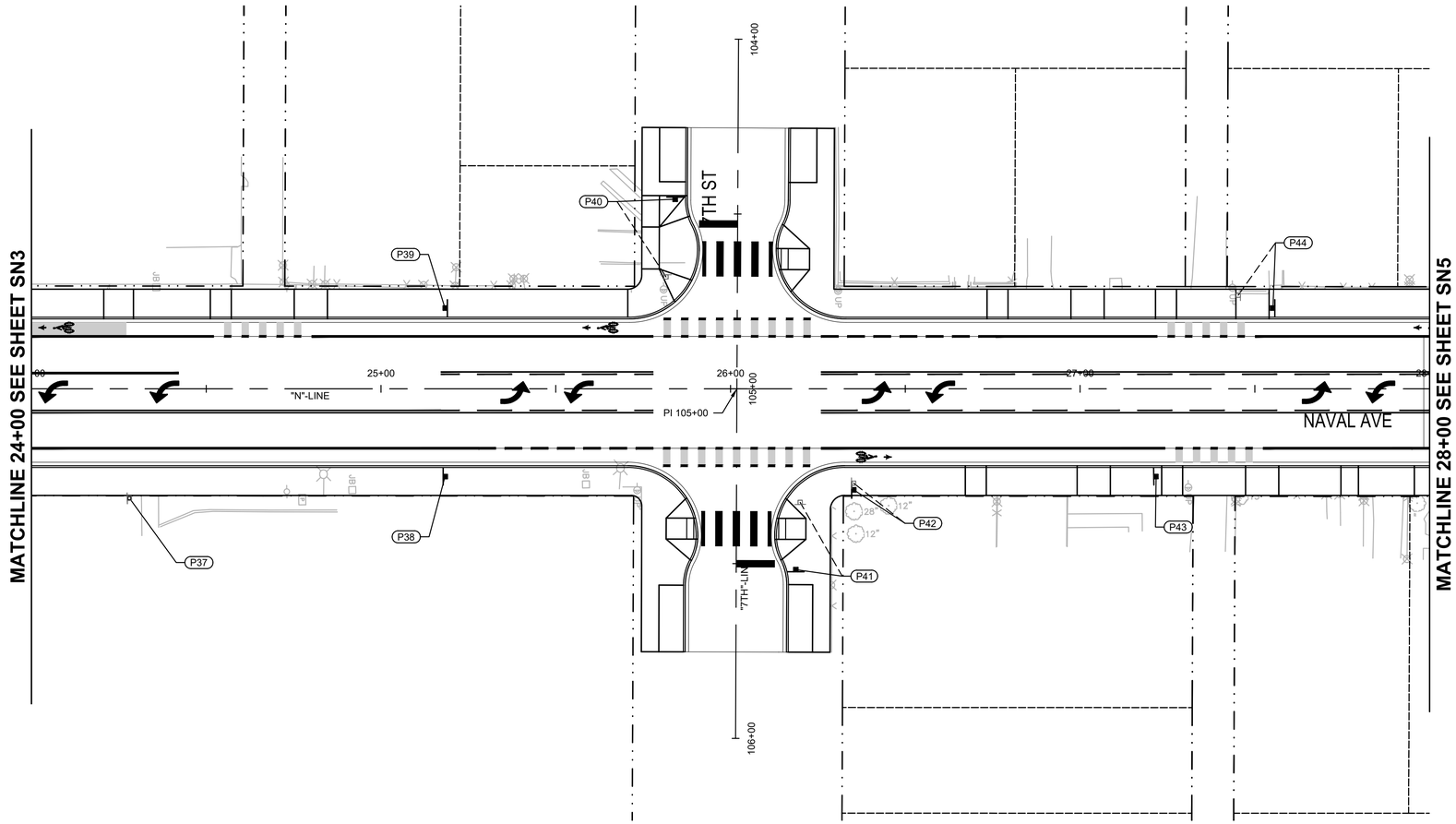
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE STA 19+00 TO STA 24+00

PN: PROJNUM

SN3
SHEET
145
OF
179



GENERAL NOTES

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5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST–ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE							
SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P37	SCHOOL	S1–1	S	STA "N" 24+28 (31.31' RT)	36X36	STEEL, 2.5" SQC., 12'	REMOVE EX.
P38	BEGIN CENTER LANE	R3–9cP R3–9b	S S	STA "N" 25+18 (25.10' RT)	30X12 24X36	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P39	END CENTER LANE	R3–9dP R3–9b	N N	STA "N" 25+18 (23.10' LT)	30X12 24X36	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P40	7TH STREET NAVAL AVE STOP	D3–1 D3–1 R1–1	N/S E/W W	STA "N" 25+84 (54.23' LT)	VARIESX12 30x30 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P41	7TH STREET NAVAL AVE STOP NO PARKING WITHIN 30 FT	D3–1 D3–1 R1–1 R7–1 (MOD)	N/S E E	STA "N" 26+19 (51.73' RT)	VARIESX12 VARIESX12 30X30 12X18	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P42	SCHOOL SPEED LIMIT 20 WHEN FLASHING	S5–1	S	STA "N" 26+35 (28.93' RT)	24X48	STEEL, 2.5" SQC., 12'	WITH FLASHING BEACON

SIGN SCHEDULE							
SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P43	PEDESTRIAN AHEAD	W11–2 W16–9P	S S	STA "N" 27+22 (25.10' RT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P44	SPEED LIMIT 25	R2–1	N	STA "N" 27+55 (23.10' LT)	24x30	STEEL, 2.5" SQC., 12'	RELOCATE EX.

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP: ROBERT C. ACEVEDO, STATE OF WASHINGTON, 55471, REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

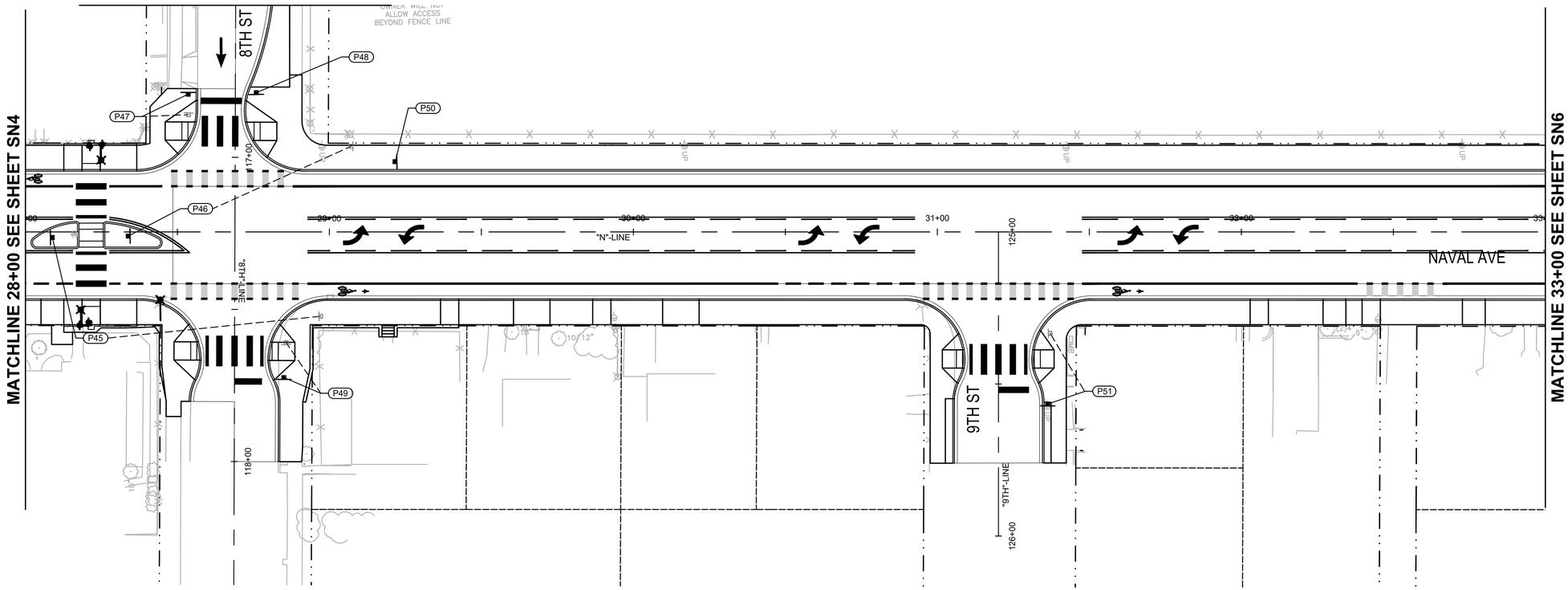
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE STA 24+00 TO STA 28+00

PN: PROJNUM

SN4
SHEET
146
OF
179



GENERAL NOTES

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3. FOR STREET NAME SIGN DETAILS, REFER TO COB STD PLAN 3253.
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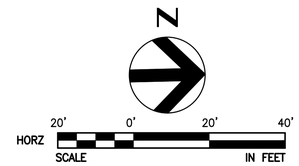
5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST-ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE							
SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P45	SCHOOL ARROW	S1-1 W16-7P	S	STA "N" 28+09 (1.83' RT)	36X36 24X12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P46	SCHOOL DOWNWARD DIAGONAL ARROW NO LEFT TURN	S1-1 W16-7P R3-2	N	STA "N" 28+34 (1.36' RT)	36X36 24X12 24X24	STEEL, 2.5" SQC., 12'	INSTALL NEW TURN SIGN, RELOCATE EX. SCHOOL SIGN
P47	8TH STREET NAVAL AVE STOP	D3-1 D3-1 R1-1	N/S E/W W	STA "N" 28+54 (45.26' LT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P48	DO NOT ENTER ONE WAY	R5-1 R6-1R	E	STA "N" 28+76 (45.80' LT)	VARIESX12 30x30 36x12	STEEL, 2.5" SQC., 12'	INSTALL NEW
P49	8TH STREET NAVAL AVE STOP	D3-1 D3-1 R1-1	N/S E/W E	STA "N" 28+85 (47.88' RT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P50	PEDESTRIAN AHEAD NO RIGHT TURN	W11-2 W16-9P R3-1	N N N	STA "N" 29+22 (23.10' LT)	30X30 24X12 24X24	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW

SIGN SCHEDULE							
SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P51	9TH STREET NAVAL AVE STOP	D3-1 D3-1 R1-1	N/S E/W E	STA "N" 31+36 (56.57' RT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.



CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO. _____

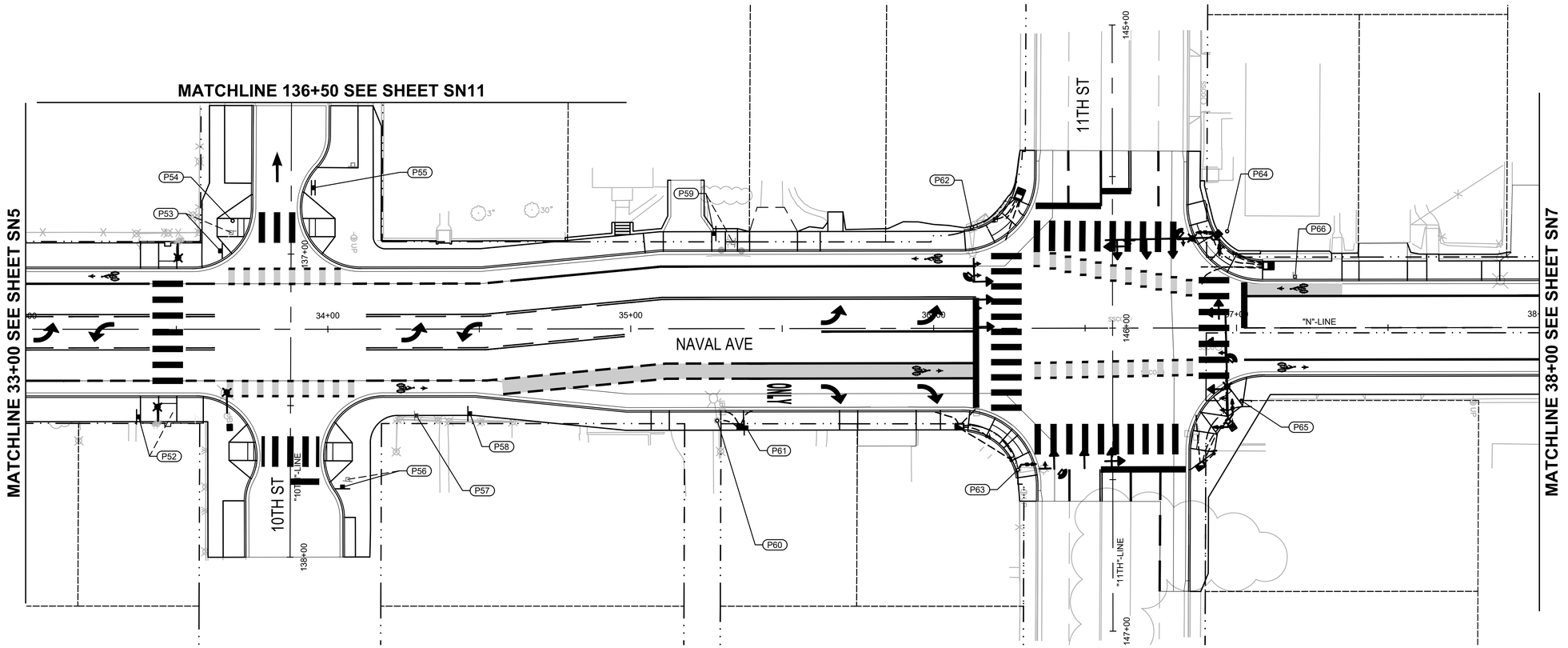
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
SIGNING PLANS AND SCHEDULE
STA 28+00 TO STA 33+00

PN: PROJNUM

SN5
SHEET
147
OF
179



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LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P52	SCHOOL DOWNARD DIAGONAL ARROW	S1-1 W16-7P	S	STA "N" 33+37 (28.90' RT)	36X36 24X12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P53	SCHOOL CROSSING ARROW	S1-1 W16-7P	N	STA "N" 33+65 (25.88' LT)	36X36 24X12	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P54	10TH STREET STOP	D3-1 R1-1	N/S W	STA "N" 33+69 (35.78' LT)	VARIESX12 30X30	STEEL, 2.5" SQC., 12'	REMOVE EX.
P55	10TH STREET ONE WAY ONE WAY	D3-1 R6-1R R6-1L	N/S N S	STA "N" 33+95 (46.66' LT)	VARIESX12 36X12 36X12	STEEL, 2.5" SQC., 12'	REINSTALL STREET NAME, INSTALL NEW ONE WAY
P56	10TH STREET NAVAL AVE STOP	D3-1 D3-1 R1-1	N/S E/W E	STA "N" 34+05 (52.07' RT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P57	SPEED LIMIT 25	R2-1	S	STA "N" 34+29 (28.56' RT)	18X24	STEEL, 2.5" SQC., 12'	REMOVE EX.
P58	BEGIN RIGHT TURN LANE YIELD TO BIKES SPEED LIMIT 25	R4-4 R2-1	S	STA "N" 34+47 (27.93' RT)	36X30 24X30	STEEL, 2.5" SQC., 12'	INSTALL NEW
P59	SCHOOL SPEED LIMIT 20 WHEN FLASHING	S5-1	N	STA "N" 35+28 (31.39' LT)	24X48	STEEL, 2.5" SQC., 12'	WITH FLASHING BEACON. SEE MUTCD SECTION 4L.04
P60	END SCHOOL ZONE	S5-2	S	STA "N" 35+29 (30.35' RT)	24X30	LUMINAIRE POLE	REMOVE EX.
P61	RIGHT LANE MUST TURN RIGHT END SCHOOL ZONE	R3-7R S5-2	S	STA "N" 35+38 (32.73' RT)	36X36 24X30	STEEL, 2.5" SQC., 12'	REINSTALL END SCHOOL SCHOOL, INSTALL NEW RIGHT TURN

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P62	LEFT TURN YIELD ON GREEN 11TH ST NO TURN ON RED	R10-12 D3-1 R10-11B	S	STA "N" 36+13 (33.35' LT)	30X36 VARIESX12 36X36	MAST ARM	REPLACE EX. REFER SG SHEETS
P63	MANDATORY MOVEMENT LANE CONTROL (LEFT TURN) NAVAL AVE	R3-5L D3-1	W	STA "N" 36+28 (46.76' RT)	30X36 VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P64	MANDATORY MOVEMENT LANE CONTROL (LEFT TURN) NAVAL AVE	R3-5L D3-1	W	STA "N" 36+97 (31.88' LT)	30X36 VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P65	11TH ST MANDATORY MOVEMENT LANE CONTROL (THROUGH) NO TURN ON RED MANDATORY MOVEMENT LANE CONTROL (RIGHT TURN)	D3-1 R3-5A R10-11B R3-5R	S	STA "N" 37+02 (24.04' RT)	VARIESX12 30X36 24X30 30X36	MAST ARM	REPLACE EX. REFER SG SHEETS
P66	NO PARKING HERE TO CORNER	R7-11	N	STA "N" 37+19 (16.85' LT)	12X18	STEEL, 2.5" SQC., 12'	REMOVE EX.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS

NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

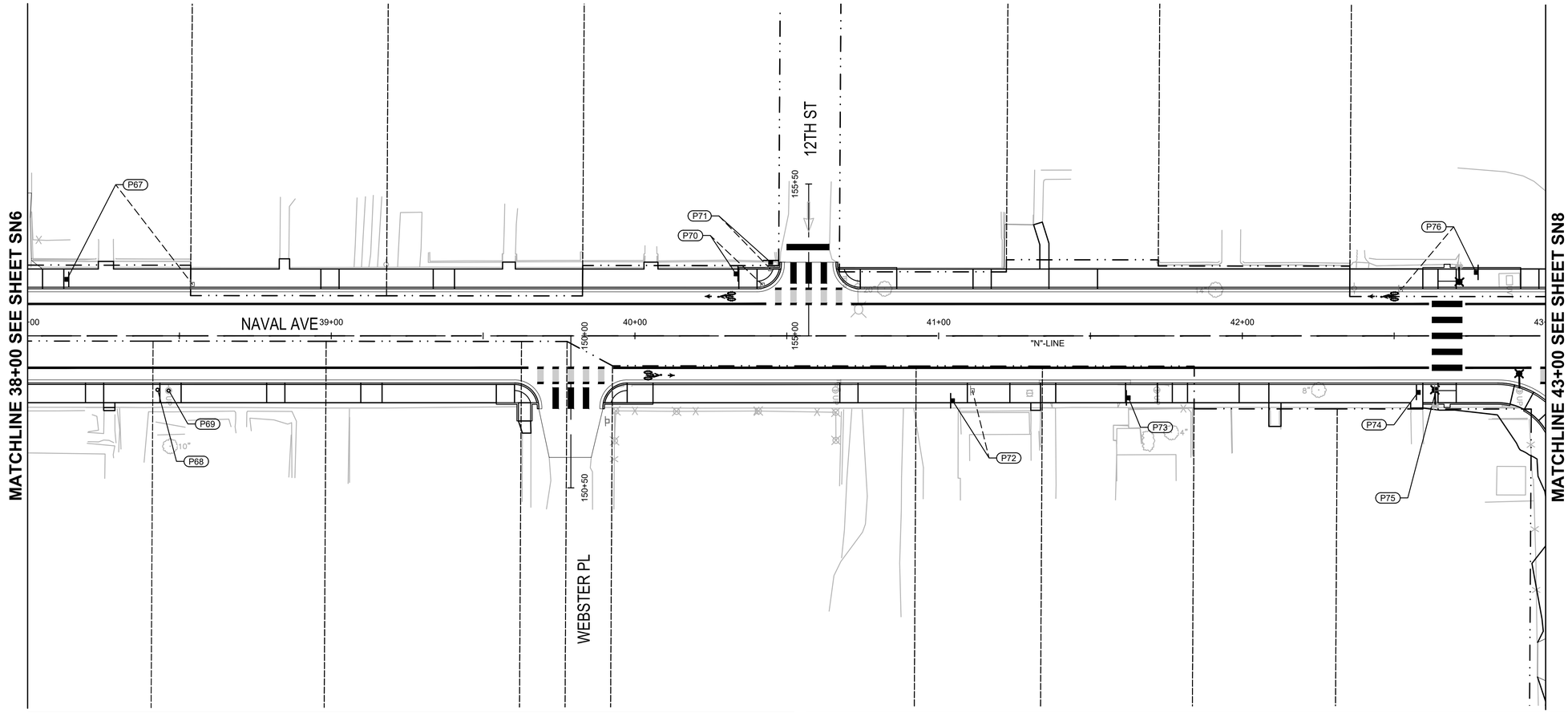
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
SIGNING PLANS AND SCHEDULE
STA 33+00 TO STA 38+00

PN: PROJNUM

SN6
SHEET
148
OF
179



GENERAL NOTES

1. ALL REMOVED SIGNS SHALL REMAIN THE PROPERTY OF THE CITY OF BREMERTON UNLESS NOTED OTHERWISE.
2. FOR SIGN INSTALLATION DETAILS, REFER TO COB STD PLAN 3251.
3. FOR STREET NAME SIGN DETAILS, REFER TO COB STD PLAN 3253.
4. FOR STREET NAME SIGN MAST ARM MOUNT DETAILS, REFER TO COB STD PLAN 3254.
5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST-ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P67	SCHOOL CROSSING AHEAD NO PARKING BEYOND THIS POINT	S1-1 W16-9P R8-301 (WSDOT)	N	STA "N" 38+13 (18.60' LT)	36X36 24X12 30X36	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P68	NO PARKING THIS SIDE	R-81 (MOD)	S	STA "N" 38+43 (17.76' RT)	24X30	STEEL, 2.5" SQC., 12'	REMOVE EX.
P69	NO PARKING THIS SIDE	R8-1 (MOD)	S	STA "N" 38+46 (18.03' RT)	24X30	UTILITY POLE	REINSTALL EX.
P70	ONE WAY DO NOT ENTER	R6-1L R5-1	N	STA "N" 40+33 (20.40' LT)	36X12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P71	12TH STREET NAVAL AVE STOP	D3-1 D3-1 R1-1	N/S E/W W	STA "N" 40+45 (24.23' LT)	VARIESX12 VARIESX12 30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P72	LIMITED SIGHT DISTANCE 20 MPH	W8-15 (MOD) W13-1P	S	STA "N" 41+05 (21.35' RT)	30X30 18X18	STEEL, 2.5" SQC., 12'	RELOCATE EX.

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P73	PEDESTRIAN AHEAD	W11-2 W16-9P	S S	STA "N" 41+62 (20.40' RT)	30X30 24X12	STEEL, 2.5" SQC., 12'	INSTALL NEW
P74	PEDESTRIAN DOWNWARD DIAGONAL ARROW	W11-2 W16-7pL	S S	STA "N" 42+58 (18.60' RT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P75	NO PARKING THIS SIDE	R8-1 (MOD)	S	STA "N" 42+64 (17.44' RT)	24X30	STEEL, 2.5" SQC., 12'	REMOVE EX.
P76	PEDESTRIAN DOWNWARD DIAGONAL ARROW NO PARKING CORNER TO HERE	W11-2 W16-7pL R7-1 (MOD)	N N N	STA "N" 42+77 (20.90' LT)	30X30 24X12 12X18	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	REMOVE EX. PARKING SIGN, INSTALL NEW PED SIGN

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

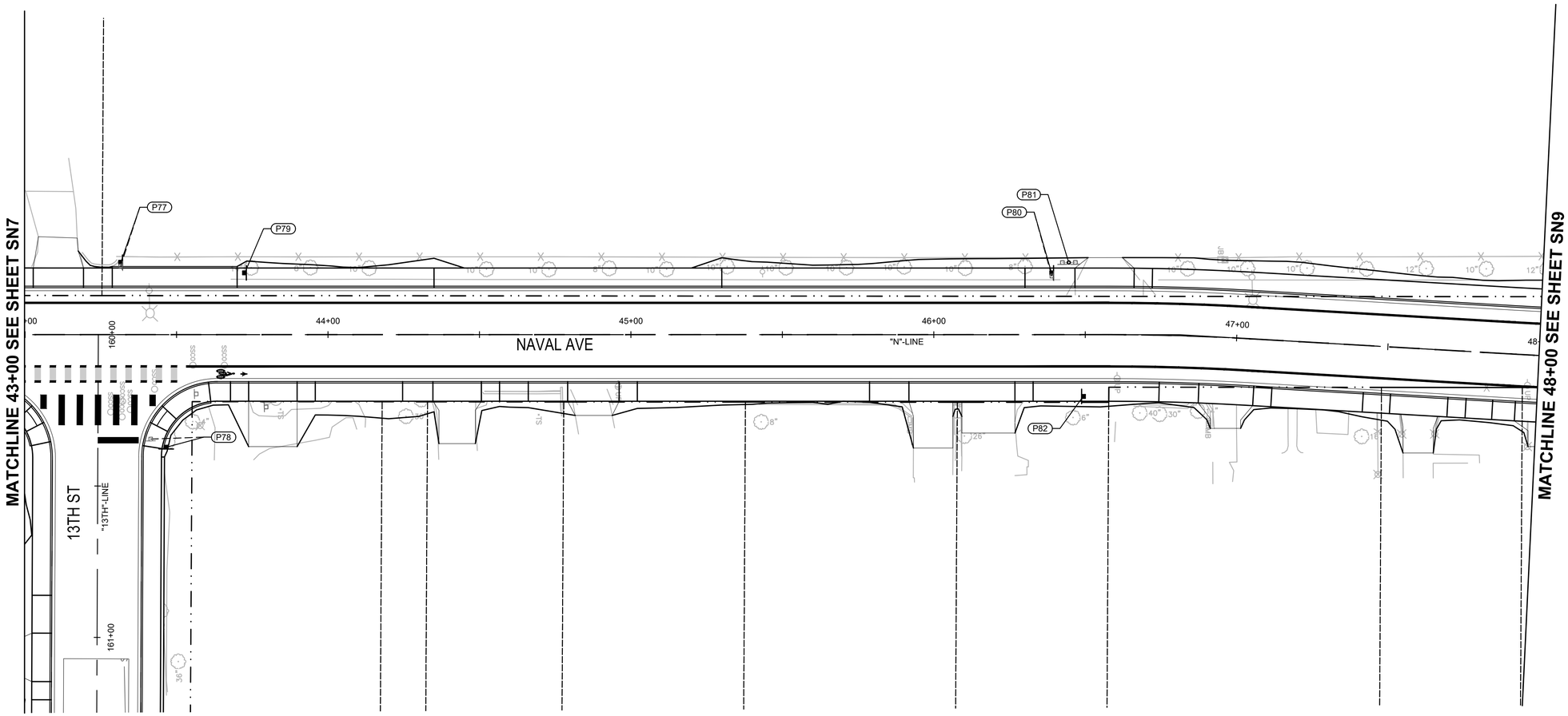
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE STA 38+00 TO STA 43+00

PN: PROJNUM

SN7
SHEET
149
OF
179



GENERAL NOTES

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2. FOR SIGN INSTALLATION DETAILS, REFER TO COB STD PLAN 3251.
3. FOR STREET NAME SIGN DETAILS, REFER TO COB STD PLAN 3253.
4. FOR STREET NAME SIGN MAST ARM MOUNT DETAILS, REFER TO COB STD PLAN 3254.
5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST-ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P77	13TH STREET NAVAL AVENUE	D3-1 D3-1	E/W N/S	STA "N" 43+32 (23.91' LT)	VARIESX12 VARIESX12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	RELOCATE EX.
P78	STOP	R1-1	E	STA "N" 43+47 (37.17' RT)	30X30	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P79	PEDESTRIAN AHEAD	W11-2 W16-9P	N N	STA "N" 43+72 (20.40' LT)	30X30 24X12	STEEL, 2.5" SQC., 12' STEEL, 2.5" SQC., 12'	INSTALL NEW
P80	LIMITED SIGHT DISTANCE 20 MPH	W14-4 W13-1P	N N	STA "N" 46+39 (20.40' LT)	24X24 18X18	STEEL, 2.5" SQC., 12'	RELOCATE EX.
P81	IVY GREEN CEMETARY	CUSTOM	E	STA "N" 46+45 (23.82' LT)	CUSTOM	CHAIN LINK FENCE	PROTECT IN PLACE EX. BUSINESS SIGN
P82	REVERSE CURVE RIGHT	W1-4R	S	STA "N" 46+49 (20.41' RT)	30X30	STEEL, 2.5" SQC., 12'	INSTALL NEW

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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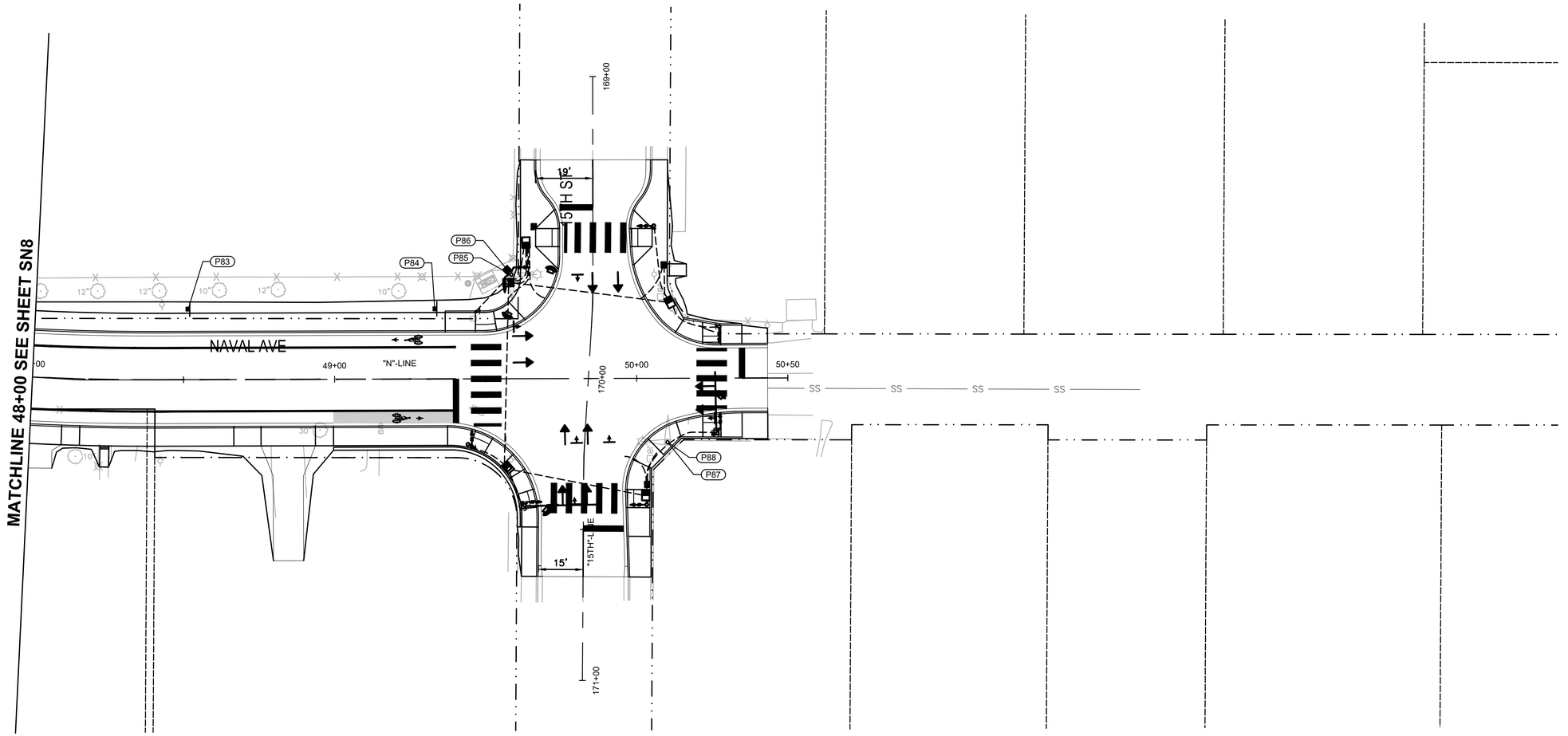
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE STA 43+00 TO STA 48+00

PN: PROJNUM

SN8
SHEET
150
OF
179



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- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
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SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P83	REVERSE CURVE LEFT	W1–4L	N	STA "N" 48+52 (23.36' LT)	30X30	STEEL, 2.5" SQC., 12'	INSTALL NEW
P84	SPEED LIMIT 25	R2–1	N	STA "N" 49+33 (23.20' LT)	18X24	STEEL, 2.5" SQC., 12'	INSTALL NEW
P85	15TH ST	D3–1	N	STA "N" 49+59 (34.45' LT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P86	NAVAL AVE	D3–1	E	STA "N" 49+59 (34.45' LT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS
P87	NAVAL AVE NO TURN ON RED	D3–1 R10–11B	W	STA "N" 50+10 (21.17' RT)	VARIESX12 36X36	MAST ARM	REPLACE EX. REFER SG SHEETS
P88	15TH ST	D3–1	S	STA "N" 50+10 (21.17' RT)	VARIESX12	MAST ARM	REPLACE EX. REFER SG SHEETS

N

20' 0' 20' 40'
HORZ SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS

NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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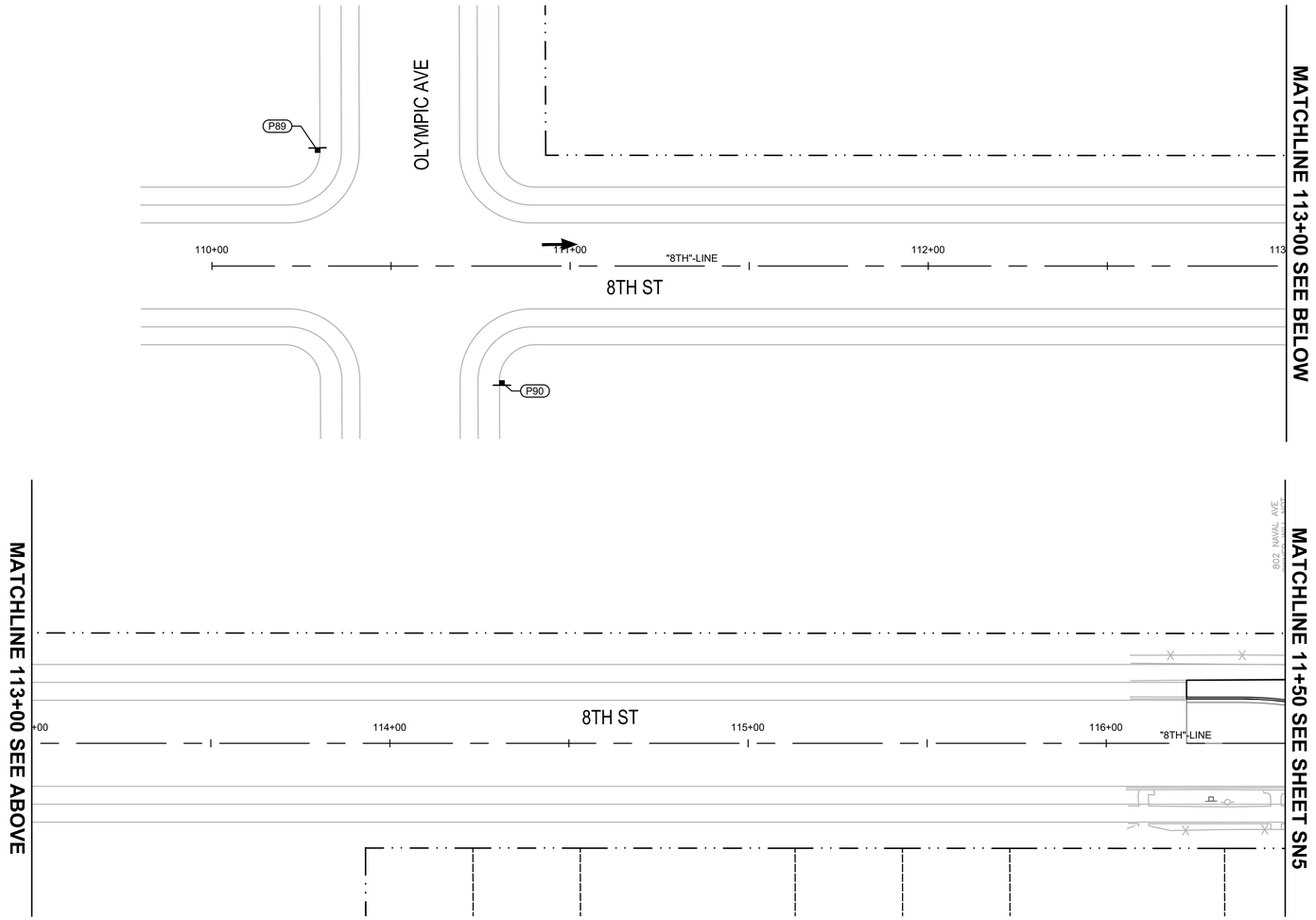
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE STA 48+00 TO END

PN: PROJNUM

SN9
SHEET
151
OF
179



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5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST–ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P89	ONE WAY LEFT ARROW	R6–2L	N	STA "N" 29+03 (694.91' LT)	24X30	STEEL, 2.5" SQC., 12'	INSTALL NEW
P90	ONE WAY RIGHT ARROW	R6–2R	S	STA "N" 28+38 (643.66' LT)	24X30	STEEL, 2.5" SQC., 12'	INSTALL NEW

N

20' 0' 20' 40'
HORZ SCALE IN FEET

CAD FILE:

ROBERT C. ACEVEDO STATE OF WASHINGTON 55471 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

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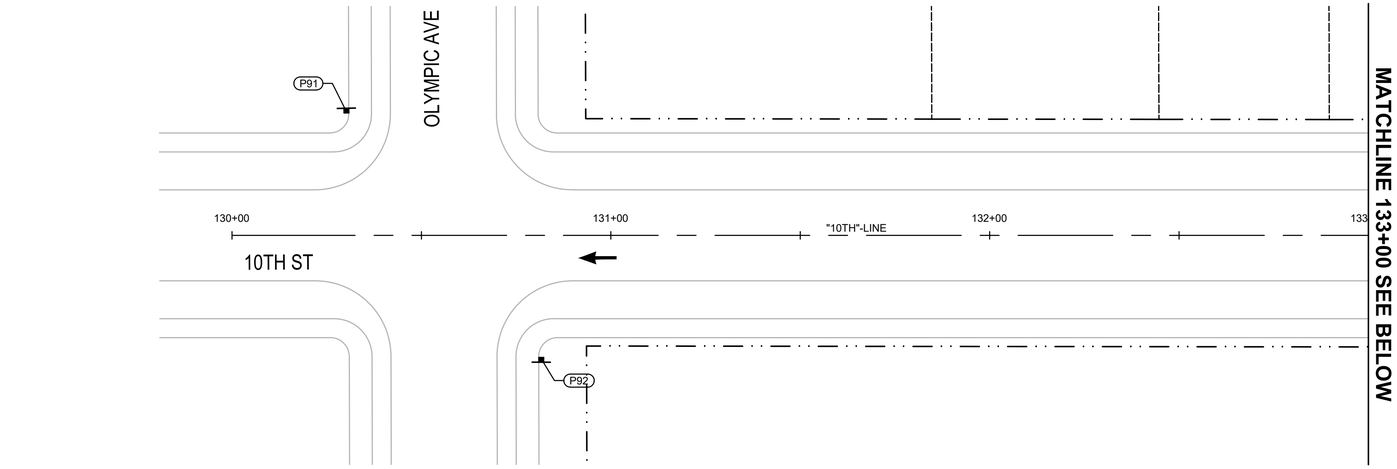
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

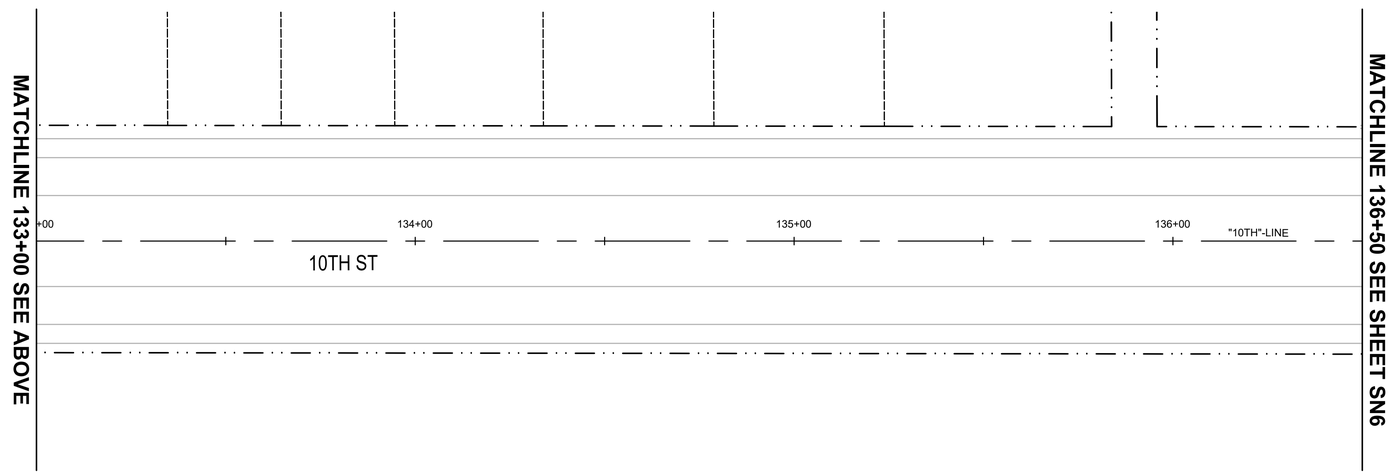
DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE 8TH ST

PN: PROJNUM

SN10
SHEET
152
OF
179





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5. FOR RELOCATED OR RETAINED SIGNS, REPLACE POSTS WITH TELSPAR SIGN POSTS PER CITY STANDARD.
6. REFER TO SG SHEETS FOR DETAILS OF MAST-ARM SIGNS.

LEGEND

- EXISTING SIGN & POST
- NEW SIGN & POST OR RELOCATED SIGN ON NEW POST
- (P) SIGN INSTALLATION NOTE
- (P) NEW LOCATION / SIGN RELOCATION AND REPLACEMENT NOTE / EXISTING LOCATION

SIGN SCHEDULE

SIGN NO.	SIGN / PLAQUE	DESIGNATION	ORIENTATION	LOCATION	SIZE (INCHES)	POST TYPE	NOTES
P91	ONE WAY RIGHT ARROW	R6-2R	N	STA "N" 34+24 (694.45' LT)	24X30	STEEL, 2.5" SQC., 12'	INSTALL NEW
P92	ONE WAY LEFT ARROW	R6-2L	S	STA "N" 33+57 (643.28' LT)	24X30	STEEL, 2.5" SQC., 12'	INSTALL NEW

N

20' 0' 20' 40'
HORZ SCALE IN FEET

CAD FILE:

ENGINEER STAMP
ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *H. DANEL* DATE ---
DESIGN BY: *H. DANEL* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT SIGNING PLANS AND SCHEDULE 10TH ST

PN: PROJNUM

SN11
SHEET
153
OF
179

CONSTRUCTION NOTES:

1. REMOVE AND REPLACE EXISTING SIGNAL HEAD ON EXISTING MOUNT.
2. INSTALL RADAR PRESENCE DETECTOR WITH MOUNT PER SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
3. REPLACE JUNCTION BOX TO MATCH NEW GRADE. TRIM CONDUIT TO NEW GRADE.
4. CHAMFER CABINET FOUNDATION TO MATCH NEW GRADE.
5. INSTALL RADAR CABINET INTERFACE DEVICE (CID) AND OTHER REQUIRED EQUIPMENT FOR RADAR DETECTION INTEGRATION IN CABINET PER SPECIFICATIONS.
6. INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT PER PLAN.
7. REMOVE EXISTING SIGNAL HEAD.
8. REPLACE EXISTING JUNCTION BOX PER PLAN.
9. INSTALL NEW SIGNAL HEAD ON NEW MOUNT.
10. RELOCATE SIGN.
11. REMOVE AND DISPOSE OF EXISTING SIGN.
12. REMOVE AND DISPOSE OF EXISTING POLE. DEMOLISH FOUNDATION TO 1' BELOW GRADE AND RESTORE WITH NATIVE MATERIAL.
13. SALVAGE CAMPBELL GUARDIAN APS PUSH BUTTONS TO CITY.
14. RELOCATE COUNTDOWN PEDESTRIAN SIGNAL HEAD FROM THIS POLE TO NEW POLE.
15. INSTALL NEW SIGN ON NEW MOUNT.
16. COORDINATE WITH PSE TO RELOCATE UTILITY POLE.
17. INSTALL NEW EMERGENCY VEHICLE DETECTOR PER DETAIL ON SHEET XX-. REMOVE EXISTING EVP IF PRESENT.
18. RELOCATE RADAR UNIT.
19. CONSTRUCT COMBINED CONTROLLER CABINET AND POWER SERVICE CABINET FOUNDATION PER THE CABINET FOUNDATION DETAIL ON SHEET SG9 AND PER SPECIFICATIONS. SUPPLY AND INSTALL COMPLETE TRAFFIC SIGNAL CABINET AND POWER SERVICE CABINET PER COB STD DETAIL 7016 AND SPECIFICATIONS. TERMINATE 6-PAIR SIGNAL INTERCONNECT CABLE (SIC) IN CABINET. RELOCATE RADAR CABINET INTERFACE DEVICE FROM EXISTING CABINET TO NEW CABINET, ALONG WITH OTHER REQUIRED EQUIPMENT FOR RADAR DETECTION INTEGRATION IN CABINET PER SPECIFICATIONS. ENGINEER TO FIELD VERIFY CABINET FOUNDATION LOCATION AND ORIENTATION PRIOR TO INSTALLATION.
20. REMOVE AND DISPOSE OF EXISTING CABINET AND FOUNDATION.
21. DISCONNECT 6-PAIR SIC FROM CABINET AT 11TH STREET. PULL BACK TO THIS JUNCTION BOX. RUN THROUGH REVISED CONDUIT PATHWAY TO 11TH STREET CABINET. RECONNECT 6-PAIR SIC AT CABINET.
22. PROTECT EXISTING SIGNAL HEAD IN PLACE

RC REMOVE AND DISPOSE OF EXISTING JUNCTION BOX.

AB ABANDON EXISTING CONDUIT

POLE CONSTRUCTION NOTES:

1. REMOVE AND DISPOSE OF PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AND PEDESTRIAN PUSH BUTTONS. INSTALL NEW PEDESTRIAN SIGNAL HEADS WITH HOUSINGS ON NEW TYPE E SIDE MOUNTS AND NEW ADA ACCESSIBLE PEDESTRIAN PUSHBUTTONS PER SPECIFICATIONS. PEDESTRIAN SIGNAL HEADS SHALL BE PLACED ON THE NORTH AND EAST SIDES OF POLE. REPLACE SIGN(S) PER PLAN. INSTALL NEW TERMINAL COMPARTMENT. TRIM POLE FOUNDATION.
2. REMOVE AND DISPOSE OF PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AND PEDESTRIAN PUSH BUTTONS. INSTALL NEW PEDESTRIAN SIGNAL HEADS WITH HOUSINGS ON NEW TYPE E SIDE MOUNTS AND NEW ADA ACCESSIBLE PEDESTRIAN PUSHBUTTONS PER SPECIFICATIONS. PEDESTRIAN SIGNAL HEADS SHALL BE PLACED ON THE EAST AND SOUTH SIDES OF THE POLE. TRIM POLE FOUNDATION.
3. REMOVE AND DISPOSE OF PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AND PEDESTRIAN PUSH BUTTONS. INSTALL NEW PEDESTRIAN SIGNAL HEADS WITH HOUSINGS ON NEW TYPE E SIDE MOUNTS AND NEW ADA ACCESSIBLE PEDESTRIAN PUSHBUTTONS PER SPECIFICATIONS. PEDESTRIAN SIGNAL HEADS SHALL BE PLACED ON THE WEST AND SOUTH SIDES OF THE POLE. INSTALL NEW TERMINAL COMPARTMENT. TRIM POLE FOUNDATION.
4. REMOVE AND DISPOSE OF PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AND PEDESTRIAN PUSH BUTTONS.
5. FURNISH AND INSTALL TYPE 1 POLE WITH CURB BASE AND FOUNDATION PER DETAIL ON SHEET SG9. INSTALL NEW ACCESSIBLE PEDESTRIAN PUSH BUTTONS. INSTALL NEW PEDESTRIAN SIGNAL HEADS WITH HOUSINGS ON NEW TYPE E SIDE MOUNTS.

DISPLAY NOTES:

1. ALL VEHICLE SIGNAL HEADS SHALL BE 12" LED LENSES WITH QUICK CLIP REPLACEMENTS PER SPECIFICATIONS. THE HOUSINGS SHALL BE ALUMINUM AND PAINTED DARK GREEN. ALUMINUM TUNNEL VISORS SHALL BE PAINTED FLAT BLACK IN COLOR ON INSIDE AND SHALL BE DARK GREEN ON THE OUTSIDE. BACKPLATES SHALL BE ALUMINUM. LOUVERED, BLACK IN COLOR FRONT AND BACK, AND SHALL HAVE MANUFACTURER INSTALLED TWO-INCH WIDE BORDER ON THE FRONT SIDE.
2. MOUNT ALL VEHICLE SIGNAL HEADS ON MAST ARMS BETWEEN RED AND YELLOW INDICATION UNLESS NOTED OTHERWISE.
3. ALL PEDESTRIAN SIGNAL DISPLAYS SHALL BE LED, COUNTDOWN TYPE, SOLID (NOT-OUTLINED) SYMBOLIC LEGENDS, AND "Z-CRATE" VISORS. THE ALUMINUM HOUSING SHALL BE PAINTED DARK GREEN WITH FLAT BLACK VISORS.
4. WHERE NOTED WITH "LV" ON PLANS, CONTRACTOR SHALL PROVIDE LOUVERED VISORS FOR ALL SIGNAL HEAD INDICATIONS TO LIMIT VISIBILITY. ENGINEER WILL FIELD VERIFY SIGNAL HEAD ORIENTATION AND AIM.

SIGNAL MODIFICATIONS NOTES:

1. CONTRACTOR SHALL VERIFY THAT ALL NEW SIGNAL HEADS INSTALLED ARE MOUNTED PER THE WSDOT DESIGN MANUAL. THE MINIMUM VERTICAL CLEARANCE IS 16.5 FEET FROM THE ROADWAY SURFACE TO THE BOTTOM OF SIGNAL HEAD ASSEMBLY.
2. WHERE SIGNAL HEADS ARE CALLED OUT TO BE ADJUSTED, SIGNAL HEADS SHALL BE SET IN THE MIDDLE OF THE LANE THEY ARE ACROSS FROM WITH A MINIMUM SPACING OF 8' BETWEEN THEM, AND SHALL USE EXISTING TENONS WHERE POSSIBLE. THE ENGINEER SHALL CONFIRM THE FINAL SIGNAL HEAD LOCATION.
3. ALL DISCONNECTED AND UNUSED EXISTING WIRING SHALL BE REMOVED FROM CONDUITS AND DISPOSED OF BY THE CONTRACTOR.
4. CONTRACTOR SHALL PLUG OR CAP ALL UNUSED WIREHOLES AND TENONS PER DETAIL 2 ON SHEET SG9.
5. CONTRACTOR SHALL FIELD VERIFY AND INSTALL PEDESTRIAN PUSH BUTTON EXTENSION ADAPTORS TO ALL NEW PUSH BUTTONS TO MEET 10" MAXIMUM REACH DISTANCE FROM PEDESTRIAN ACCESS ROUTE.
6. CONTRACTOR SHALL VERIFY CONDUIT AND AERIAL CONDUCTOR PATHWAYS.
7. WHEN INSTALLING NEW POLE MOUNTED TERMINAL COMPARTMENT CONTRACTOR SHALL TERMINATE ALL EXISTING SIGNAL CONDUCTORS FROM CABINET IN NEW COMPARTMENT AND INSTALL NEW CONDUCTORS FROM NEW TERMINAL COMPARTMENT TO SIGNAL HEADS. USE 5C FOR 3 SECTION SIGNAL HEADS AND 7C FOR 4 AND 5 SECTION SIGNAL HEADS.
8. CONTRACTOR SHALL ADJUST/RESET EMERGENCY PRE-EMPTION DETECTORS PER MOUNTING DETAIL ON SHEET SG9 AS NECESSARY TO ACCOMMODATE TRAFFIC SIGNAL HEADS AND TRAFFIC SIGNS.
9. CONTRACTOR SHALL FIELD VERIFY EXISTING SIGNAL HEAD SIZE AND MANUFACTURER TYPE. MATCHING BACKPLATES ARE REQUIRED TO ENSURE PROPER FIT. MINIMUM OF EIGHT ATTACHMENT POINTS ARE REQUIRED PER SIGNAL HEAD USING STAINLESS STEEL SCREWS AND WASHERS.
10. SEE TYPICAL FLASHING YELLOW ARROW WIRING DIAGRAMS ON SHEET SG9.

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF BREMERTON'S REQUIREMENTS AND SPECIFICATIONS.
2. STANDARD PLANS SHALL BE THE LATEST EDITION AND SPECIFICATIONS SHALL BE CURRENT WSDOT/APWA AS MODIFIED BY THE CITY OF BREMERTON, INCLUDING BREMERTON'S STANDARD DETAILS. A COPY OF THESE APPROVED PLANS AND APPLICABLE DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CALL ONE-CALL (811) FOR UTILITY LOCATIONS.
4. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE DEPTHS AND LOCATIONS OF ALL UNDERGROUND UTILITIES.
5. UNLESS NOTED OTHERWISE, ALL FEATURES SHOWN ARE BASED ON CITY OF BREMERTON GIS AND ARE CONSIDERED INFORMATIONAL ONLY.
6. PROTECT EXISTING CONDUIT IN PLACE.
7. ALL JUNCTION BOXES LOCATED IN SIDEWALKS SHALL HAVE NON-SLIP LIDS.

TO BE REVISED

Naval Ave

S-1 (9"X42") SIGN TEXT PER CITY DETAIL 3254

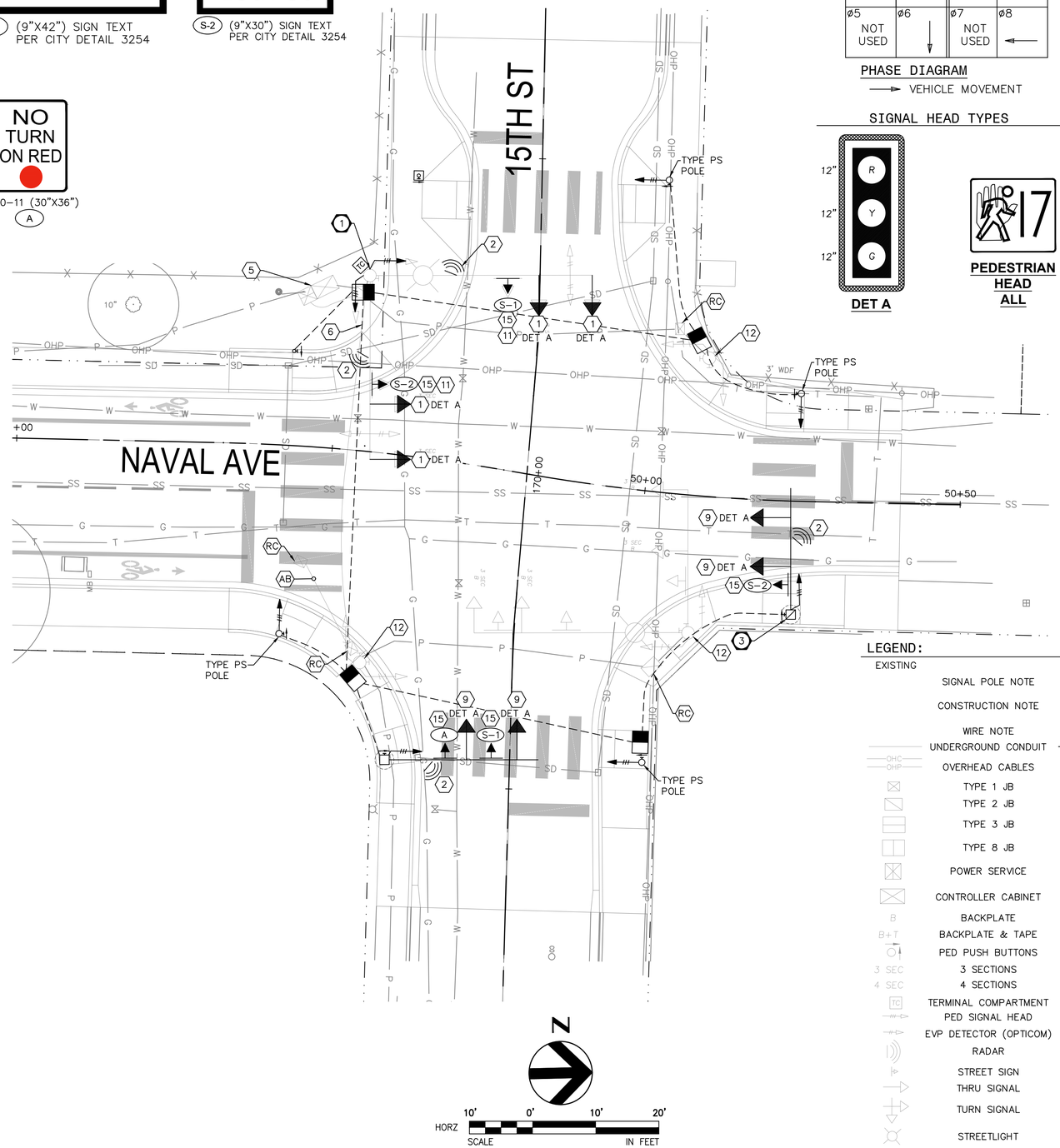
15th St

S-2 (9"X30") SIGN TEXT PER CITY DETAIL 3254

NO TURN ON RED

R10-11 (30"X36")

A



ø1 NOT USED	ø2 ↑	ø3 NOT USED	ø4 →
ø5 NOT USED	ø6 ↓	ø7 NOT USED	ø8 ←

PHASE DIAGRAM

→ VEHICLE MOVEMENT

SIGNAL HEAD TYPES

DET A

PEDESTRIAN HEAD ALL

LEGEND:

EXISTING		PROPOSED
	SIGNAL POLE NOTE	(1)
	CONSTRUCTION NOTE	(1)
	WIRE NOTE	1
	UNDERGROUND CONDUIT	
OHC OHP	OVERHEAD CABLES	
	TYPE 1 JB	
	TYPE 2 JB	
	TYPE 3 JB	
	TYPE 8 JB	
	POWER SERVICE	
	CONTROLLER CABINET	
B	BACKPLATE	
B+T	BACKPLATE & TAPE	
	PED PUSH BUTTONS	
3 SEC	3 SECTIONS	3 SEC
4 SEC	4 SECTIONS	4 SEC
TC	TERMINAL COMPARTMENT	TC
	PED SIGNAL HEAD	
	EVP DETECTOR (OPTICOM)	
	RADAR	
	STREET SIGN	
	THRU SIGNAL	
	TURN SIGNAL	
	STREETLIGHT	

CAD FILE:

PABLO PARA 48510 REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. VERT.

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON

DEPARTMENT OF PUBLIC WORKS & UTILITIES

ENGINEERING DIVISION

DRAWN BY: *ERIC RIVERA* DATE

DESIGN BY: *MARIA TRIBELHORN* WASH. P.E. # DATE

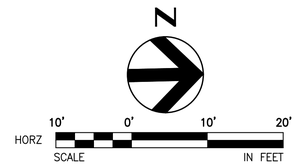
CHECKED BY: *PABLO PARA, PE, PTOE* WASH. P.E. # DATE

NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS TRAFFIC SIGNAL PLAN - NAVAL AVE & 15TH ST

PN. PROJNUM

SG1 SHEET 154 OF 179

WIRING SCHEDULE TO
ADD IN NEXT
SUBMITTAL



CAD FILE:

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NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL SCHEDULE - NAVAL AVE & 15TH ST

PN: PROJNUM

SG2
SHEET
155
OF
179

CONSTRUCTION NOTES:

1. REMOVE AND REPLACE EXISTING SIGNAL HEAD ON EXISTING MOUNT.
2. INSTALL RADAR PRESENCE DETECTOR WITH MOUNT PER SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
5. INSTALL RADAR CABINET INTERFACE DEVICE (CID) AND OTHER REQUIRED EQUIPMENT FOR RADAR DETECTION INTEGRATION IN CABINET PER SPECIFICATIONS.
6. INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT PER PLAN.
9. INSTALL NEW SIGNAL HEAD ON NEW MOUNT.
10. RELOCATE SIGN.
11. REMOVE AND DISPOSE OF EXISTING SIGN.
12. REMOVE AND DISPOSE OF EXISTING POLE. DEMOLISH FOUNDATION TO 1' BELOW GRADE AND RESTORE WITH NATIVE MATERIAL.
13. SALVAGE CAMPBELL GUARDIAN APS PUSH BUTTONS TO CITY.
14. RELOCATE COUNTDOWN PEDESTRIAN SIGNAL HEAD FROM THIS POLE TO NEW POLE.
15. INSTALL NEW SIGN ON NEW MOUNT.
16. COORDINATE WITH PSE TO RELOCATE UTILITY POLE.
RC. REMOVE AND DISPOSE OF EXISTING JUNCTION BOX.

POLE CONSTRUCTION NOTES:

1. PROTECT POLE, FOUNDATION, AND EQUIPMENT IN PLACE. TRIM THE FOUNDATION TO CREATE A SMOOTH CURB LINE ON CURB RAMP. REMOVE/REPLACE/RELOCATE SIGNAL HEADS AND SIGNS PER PLAN.
2. INSTALL PEDESTRIAN PUSH BUTTON POST ON CURB BASE AND FOUNDATION PER WSDOT STANDARD PLAN J-20.11-03. INSTALL TWO NEW ACCESSIBLE PEDESTRIAN PUSH BUTTONS WITH EXTENSION ARMS.
3. INSTALL PEDESTRIAN PUSH BUTTON POST ON CURB BASE AND FOUNDATION PER WSDOT STANDARD PLAN J-20.11-03. INSTALL ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON.
4. CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE. FURNISH AND INSTALL TYPE III SIGNAL MAST ARM (35') POLE WITH TERMINAL COMPARTMENT. INSTALL NEW VEHICLE SIGNAL HEADS AND NEW AND RELOCATED SIGNS PER PLAN, TWO RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON.
5. CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE. FURNISH AND INSTALL TYPE III SIGNAL MAST ARM (37') POLE WITH TERMINAL COMPARTMENT. INSTALL NEW SIGNAL HEADS AND NEW AND RELOCATED SIGNS PER PLAN, TWO RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEADS, AND ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON.
6. PROTECT POLE, FOUNDATION, AND EQUIPMENT IN PLACE. REMOVE/REPLACE/RELOCATE SIGNAL HEADS AND SIGNS PER PLAN. SALVAGE EXISTING COUNTDOWN PEDESTRIAN SIGNAL HEAD FROM EAST SIDE OF POLE AND INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL HEAD ON WEST SIDE OF POLE ON NEW TYPE E SIDE MOUNT. TRIM POLE FOUNDATION.
7. INSTALL PEDESTRIAN PUSH BUTTON POST AND FOUNDATION PER WSDOT STANDARD PLAN J-20.10-04. INSTALL ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON.

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF BREMERTON'S REQUIREMENTS AND SPECIFICATIONS.
2. STANDARD PLANS SHALL BE THE LATEST EDITION AND SPECIFICATIONS SHALL BE CURRENT WSDOT/APWA AS MODIFIED BY THE CITY OF BREMERTON, INCLUDING BREMERTON'S STANDARD DETAILS. A COPY OF THESE APPROVED PLANS AND APPLICABLE DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
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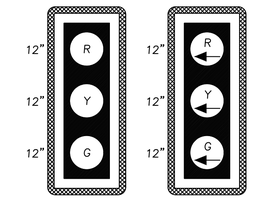
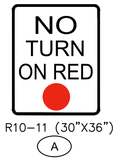
6. PROTECT EXISTING CONDUIT IN PLACE.
7. ALL JUNCTION BOXES LOCATED IN SIDEWALKS SHALL HAVE NON-SLIP LIDS.

SIGNAL HEAD TYPES





Naval Ave

S-1 (9"X42") SIGN TEXT PER CITY DETAIL 3254

11th St

S-3 (9"X30") SIGN TEXT PER CITY DETAIL 3254

SIGNAL MODIFICATIONS NOTES:

1. CONTRACTOR SHALL VERIFY THAT ALL NEW SIGNAL HEADS INSTALLED ARE MOUNTED PER THE WSDOT DESIGN MANUAL. THE MINIMUM VERTICAL CLEARANCE IS 16.5 FEET FROM THE ROADWAY SURFACE TO THE BOTTOM OF SIGNAL HEAD ASSEMBLY.
2. WHERE SIGNAL HEADS ARE CALLED OUT TO BE ADJUSTED, SIGNAL HEADS SHALL BE SET IN THE MIDDLE OF THE LANE THEY ARE ACROSS FROM WITH A MINIMUM SPACING OF 8' BETWEEN THEM, AND SHALL USE EXISTING TENONS WHERE POSSIBLE. THE ENGINEER SHALL CONFIRM THE FINAL SIGNAL HEAD LOCATION.
3. ALL DISCONNECTED AND UNUSED EXISTING WIRING SHALL BE REMOVED FROM CONDUITS AND DISPOSED OF BY THE CONTRACTOR.
4. CONTRACTOR SHALL PLUG OR CAP ALL UNUSED WIREHOLES AND TENONS PER DETAIL 2 ON SHEET SG9.
5. CONTRACTOR SHALL FIELD VERIFY AND INSTALL PEDESTRIAN PUSH BUTTON EXTENSION ADAPTORS TO ALL NEW PUSH BUTTONS TO MEET 10" MAXIMUM REACH DISTANCE FROM PEDESTRIAN ACCESS ROUTE.
6. CONTRACTOR SHALL VERIFY CONDUIT AND AERIAL CONDUCTOR PATHWAYS.
7. WHEN INSTALLING NEW POLE MOUNTED TERMINAL COMPARTMENT CONTRACTOR SHALL TERMINATE ALL EXISTING SIGNAL CONDUCTORS FROM CABINET IN NEW COMPARTMENT AND INSTALL NEW CONDUCTORS FROM NEW TERMINAL COMPARTMENT TO SIGNAL HEADS. USE 5C FOR 3 SECTION SIGNAL HEADS AND 7C FOR 4 AND 5 SECTION SIGNAL HEADS.
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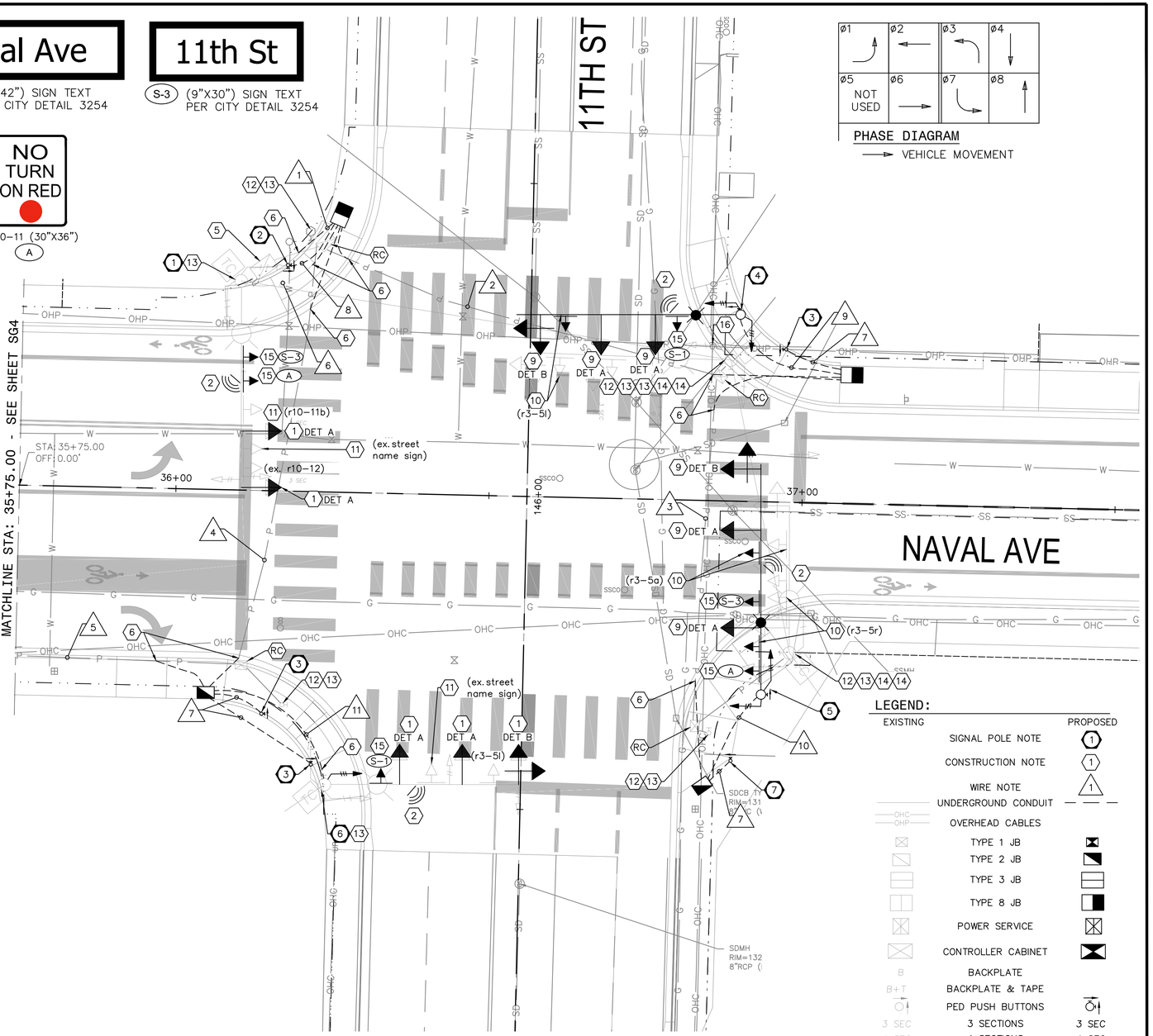
9. CONTRACTOR SHALL FIELD VERIFY EXISTING SIGNAL HEAD SIZE AND MANUFACTURER TYPE. MATCHING BACKPLATES ARE REQUIRED TO ENSURE PROPER FIT. MINIMUM OF EIGHT ATTACHMENT POINTS ARE REQUIRED PER SIGNAL HEAD USING STAINLESS STEEL SCREWS AND WASHERS.
10. SEE TYPICAL FLASHING YELLOW ARROW WIRING DIAGRAMS ON SHEET SG9.

DISPLAY NOTES:

1. ALL VEHICLE SIGNAL HEADS SHALL BE 12" LED LENSES WITH QUICK CLIP REPLACEMENTS PER SPECIFICATIONS. THE HOUSINGS SHALL BE ALUMINUM AND PAINTED DARK GREEN. ALUMINUM TUNNEL VISORS SHALL BE PAINTED FLAT BLACK IN COLOR ON INSIDE AND SHALL BE DARK GREEN ON THE OUTSIDE. BACKPLATES SHALL BE ALUMINUM. LOUVERED, BLACK IN COLOR FRONT AND BACK, AND SHALL HAVE MANUFACTURER INSTALLED TWO-INCH WIDE BORDER ON THE FRONT SIDE.
2. MOUNT ALL VEHICLE SIGNAL HEADS ON MAST ARMS BETWEEN RED AND YELLOW INDICATION UNLESS NOTED OTHERWISE.
3. ALL PEDESTRIAN SIGNAL DISPLAYS SHALL BE LED, COUNTDOWN TYPE, SOLID (NOT-OUTLINED) SYMBOLIC LEGENDS, AND "Z-CRATE" VISORS. THE ALUMINUM HOUSING SHALL BE PAINTED DARK GREEN WITH FLAT BLACK VISORS.
4. WHERE NOTED WITH "LV" ON PLANS, CONTRACTOR SHALL PROVIDE LOUVERED VISORS FOR ALL SIGNAL HEAD INDICATIONS TO LIMIT VISIBILITY. ENGINEER WILL FIELD VERIFY SIGNAL HEAD ORIENTATION AND AIM.



LEGEND:

EXISTING		PROPOSED
	SIGNAL POLE NOTE	1
	CONSTRUCTION NOTE	1
	WIRE NOTE	1
	UNDERGROUND CONDUIT	
OHC / OHP	OVERHEAD CABLES	
	TYPE 1 JB	
	TYPE 2 JB	
	TYPE 3 JB	
	TYPE 8 JB	
	POWER SERVICE	
	CONTROLLER CABINET	
B	BACKPLATE	
B+T	BACKPLATE & TAPE	
	PED PUSH BUTTONS	
3 SEC	3 SECTIONS	3 SEC
4 SEC	4 SECTIONS	4 SEC
TC	TERMINAL COMPARTMENT	TC
	PED SIGNAL HEAD	
	EVP DETECTOR (OPTICOM)	
	RADAR	
	STREET SIGN	
	THRU SIGNAL	
	TURN SIGNAL	
	STREETLIGHT	

CAD FILE:

PABLO PARA STATE OF WASHINGTON 48810 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. VERT.

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *ERIC RIVERA* DATE

DESIGN BY: *MARIA TRIBELHORN* WASH. P.E. # DATE

CHECKED BY: *PABLO PARA, PE, PTOE* WASH. P.E. # DATE

NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL PLAN - NAVAL AVE & 11TH ST

PN: PROJNUM

SG3
SHEET
156
OF
179

SIGNAL WIRING SCHEDULE

RUN NO.	CONDUIT SIZE/TYPE[2]	SIGNALS 10C	SIGNALS 5C	VEH DET 6C4	PPB 6C	ILLUM. MATCH EX	Photocell #12	GRND[5]	COMMENTS
1	EX. CONDUIT[3]			4					
2	EX. CONDUIT[3]			2					
3	EX. CONDUIT[3]			1					
4	EX. CONDUIT[3]			1					
6	EX. CONDUIT[3]			1	2				
7	1" SCH 40				1				
8	1" SCH 40				2				
9	3" SCH 40	1	2					1	Splice new signal head and illumination wires to existing at junction box
	3" SCH 40			1	1			1	
	2" SCH 40					2	1	1	
10	3" SCH 40	1	2					1	Splice new signal head and illumination wires to existing at junction box
	3" SCH 40			1	1			1	
	2" SCH 40					2	1	1	
11	EX. CONDUIT[3]			1	2				

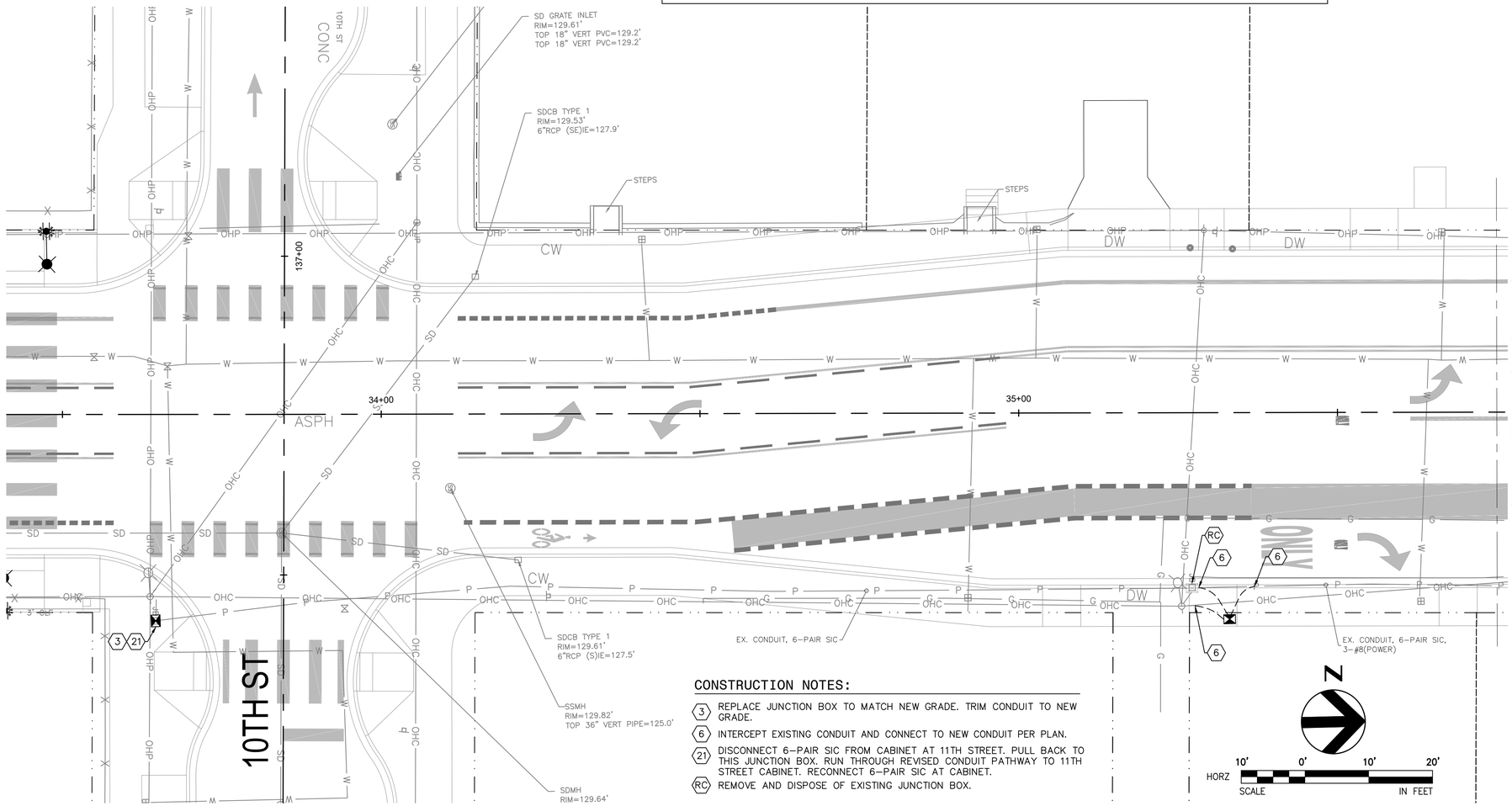
Note 1. Only new conductors shown in existing conduit runs. Existing conductors shall remain.

Note 2: Contractor to verify conduit runs and match existing conduit size. Schedule 80 shall be used under roadway and schedule 40 may be used under sidewalks and curb ramps.

Note 3. Contractor shall verify existing size/type/number and extend all new portions of conduits to match.

Note 4: Veh Det Cable is Orion Wire Combo-2204-2002-pvcgy for Wavetronix Radar Unit

Note 5. Each conduit run shall include a #8 ground wire.



CONSTRUCTION NOTES:

3. REPLACE JUNCTION BOX TO MATCH NEW GRADE. TRIM CONDUIT TO NEW GRADE.
6. INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT PER PLAN.
21. DISCONNECT 6-PAIR SIC FROM CABINET AT 11TH STREET. PULL BACK TO THIS JUNCTION BOX. RUN THROUGH REVISED CONDUIT PATHWAY TO 11TH STREET CABINET. RECONNECT 6-PAIR SIC AT CABINET.
RC. REMOVE AND DISPOSE OF EXISTING JUNCTION BOX.

MATHLINE STA: 35+75.00 - SEE SHEET TS-03

CAD FILE:

ENGINEER STAMP

PABLO PARA — STATE OF WASHINGTON — 44810 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. VERT.

FIELD BOOK

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NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL PLAN - NAVAL AVE & 11TH ST

PN: PROJNUM

SG4
SHEET 157 OF 179

CONSTRUCTION NOTES:

1. REMOVE AND REPLACE EXISTING SIGNAL HEAD ON EXISTING MOUNT.
3. REPLACE JUNCTION BOX TO MATCH NEW GRADE. TRIM CONDUIT TO NEW GRADE.
4. CHAMFER CABINET FOUNDATION TO MATCH NEW GRADE.
6. INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT PER PLAN.
9. INSTALL NEW SIGNAL HEAD ON NEW MOUNT.
10. RELOCATE SIGN.
12. REMOVE AND DISPOSE OF EXISTING POLE. DEMOLISH FOUNDATION TO 1' BELOW GRADE AND RESTORE WITH NATIVE MATERIAL.
13. SALVAGE CAMPBELL GUARDIAN APS PUSH BUTTONS TO CITY.
17. INSTALL NEW EMERGENCY VEHICLE DETECTOR PER DETAIL ON SHEET SG9. REMOVE EXISTING EVP IF PRESENT.
18. RELOCATE RADAR UNIT.
22. PROTECT EXISTING SIGNAL HEAD IN PLACE.
RC. REMOVE AND DISPOSE OF EXISTING JUNCTION BOX.

POLE CONSTRUCTION NOTES:

1. INSTALL PEDESTRIAN PUSH BUTTON POST ON CURB BASE AND FOUNDATION PER WSDOT STANDARD PLAN J-20.11-03. INSTALL ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON.
2. PROTECT POLE, FOUNDATION, AND EQUIPMENT IN PLACE. TRIM THE FOUNDATION ABOVE SIDEWALK GRADE. REMOVE/REPLACE/RELOCATE SIGNAL HEADS AND SIGNS PER PLAN.
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4. INSTALL PEDESTRIAN PUSH BUTTON POST AND FOUNDATION PER WSDOT STANDARD PLAN J-20.10-04. INSTALL ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON.
5. CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE. FURNISH AND INSTALL TYPE II SIGNAL MAST ARM (35') POLE WITH TERMINAL COMPARTMENT. INSTALL NEW SIGNAL HEADS AND NEW AND RELOCATED SIGNS PER PLAN, TWO RELOCATED COUNTDOWN PEDESTRIAN SIGNAL HEADS, AND ONE NEW ACCESSIBLE PEDESTRIAN PUSH BUTTON WITH EXTENDER.

GENERAL NOTES:

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DISPLAY NOTES:

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2. MOUNT ALL VEHICLE SIGNAL HEADS ON MAST ARMS BETWEEN RED AND YELLOW INDICATION UNLESS NOTED OTHERWISE.
3. ALL PEDESTRIAN SIGNAL DISPLAYS SHALL BE LED, COUNTDOWN TYPE, SOLID (NOT-OUTLINED) SYMBOLIC LEGENDS, AND "Z-CRATE" VISORS. THE ALUMINUM HOUSING SHALL BE PAINTED DARK GREEN WITH FLAT BLACK VISORS.
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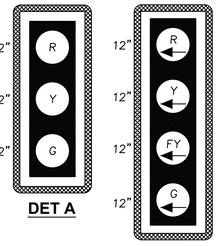
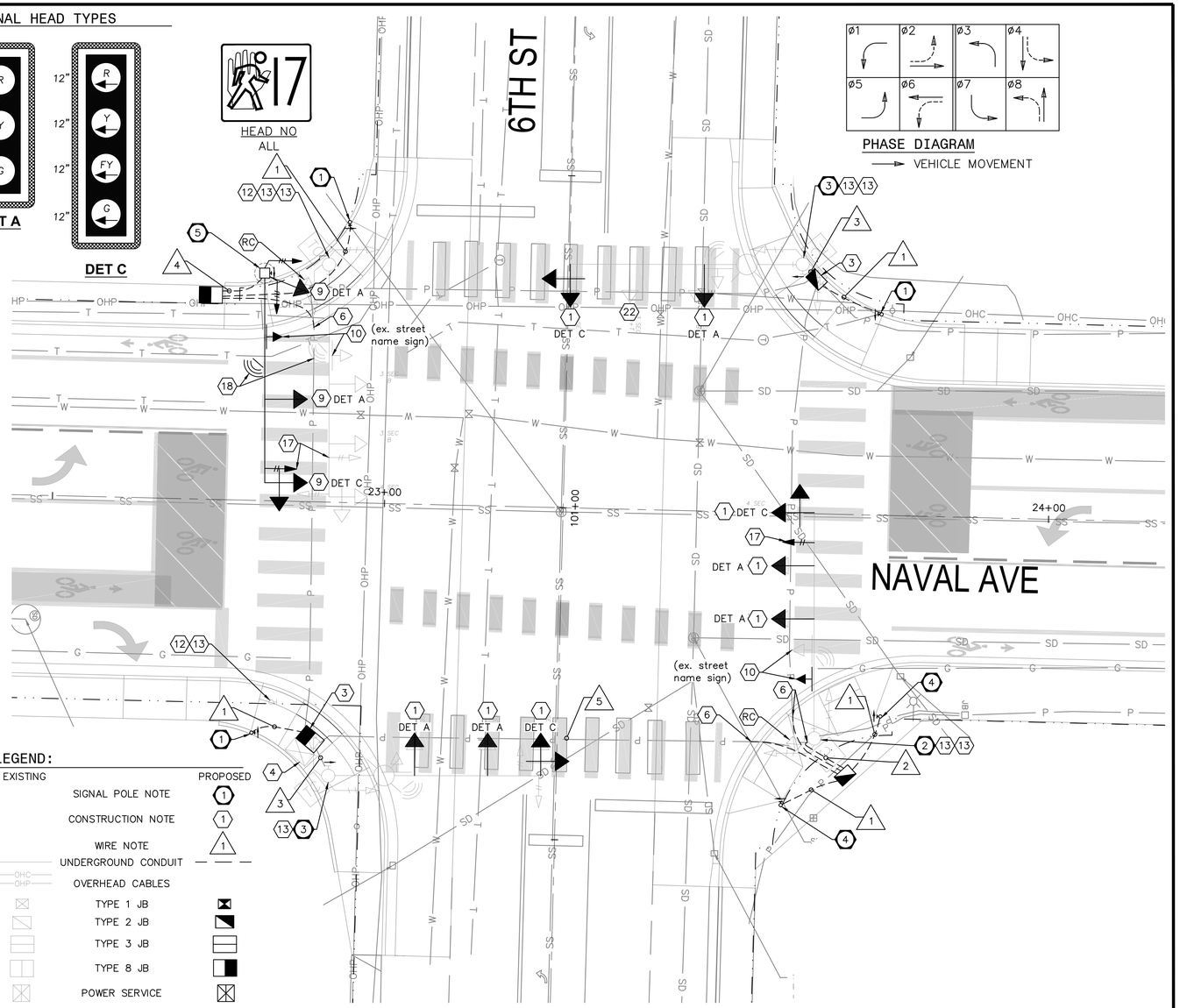
10. SEE TYPICAL FLASHING YELLOW ARROW WIRING DIAGRAMS ON SHEET SG9.

SIGNAL HEAD TYPES





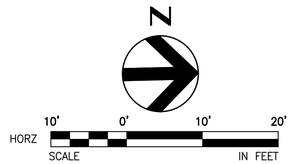
LEGEND:

EXISTING		PROPOSED
	SIGNAL POLE NOTE	1
	CONSTRUCTION NOTE	1
	WIRE NOTE	1
	UNDERGROUND CONDUIT	
OHC OHP	OVERHEAD CABLES	
	TYPE 1 JB	
	TYPE 2 JB	
	TYPE 3 JB	
	TYPE 8 JB	
	POWER SERVICE	
	CONTROLLER CABINET	
B	BACKPLATE	
B+T	BACKPLATE & TAPE	
	PED PUSH BUTTONS	
3 SEC	3 SECTIONS	3 SEC
4 SEC	4 SECTIONS	4 SEC
TC	TERMINAL COMPARTMENT	TC
	PED SIGNAL HEAD	
	EVP DETECTOR (OPTICOM)	
	RADAR	
	STREET SIGN	
	THRU SIGNAL	
	TURN SIGNAL	
	STREETLIGHT	

SIGNAL WIRING SCHEDULE

RUN NO.	CONDUIT SIZE/TYPE[2]	SIGNALS 10C	EVP (opticom) 3CS	IND. LIGHT 2C	VEH DET 6C[4]	PPB 6C	GRND[5]	SPARE
1	1" SCH 40					1	1	
2	2 1/4" EXISTING[3]					2	1	
3	2 1/4" EXISTING[3]					1	1	
4	3" SCH 40	2					1	
	3" SCH 40		2	2	1	1	1	
	2" SCH 40							1
5	3" EXISTING[3]		1	1				

Note 1. Only new conductors shown. Existing conductors shall remain.
Note 2: Contractor to verify conduit runs and match existing conduit size. Schedule 80 shall be used under roadway and schedule 40 may be used under sidewalks and curb ramps.
Note 3. Contractor shall verify existing size/type/number and extend all new portions of conduits to match.
Note 4: Veh Det Cable is Orion Wire Combo-2204-2002-pvcgy for Wavetronix Radar Unit
Note 5. Each conduit run shall include a #8 ground wire.



CAD FILE:

ENGINEER STAMP
PABLO PARA
STATE OF WASHINGTON
48010
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY
SCALE
HORIZ. VERT.

FIELD BOOK
DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *ERIC RIVERA* DATE
DESIGN BY: *MARIA TRIBELHORN* WASH. P.E. # DATE
CHECKED BY: *PABLO PARA, PE, PTOE* WASH. P.E. # DATE

NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL PLAN - NAVAL AVE & 6TH ST

PN: PROJNUM

SG5
SHEET
158
OF
179

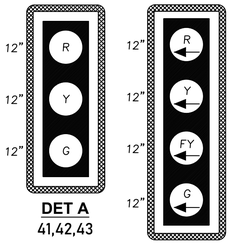
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE EXISTING SIGNAL HEAD ON EXISTING MOUNT.
2. INSTALL RADAR PRESENCE DETECTOR WITH MOUNT PER SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
3. REPLACE JUNCTION BOX TO MATCH NEW GRADE. TRIM CONDUIT TO NEW GRADE.
6. INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT PER PLAN.
7. REMOVE EXISTING SIGNAL HEAD.
8. REPLACE EXISTING JUNCTION BOX PER PLAN.
9. INSTALL NEW SIGNAL HEAD ON NEW MOUNT.
11. REMOVE AND DISPOSE OF EXISTING SIGN.
12. REMOVE AND DISPOSE OF EXISTING POLE. DEMOLISH FOUNDATION TO 1' BELOW GRADE AND RESTORE WITH NATIVE MATERIAL.
13. SALVAGE CAMPBELL GUARDIAN APS PUSH BUTTONS TO CITY.
15. INSTALL NEW SIGN ON NEW MOUNT.
17. INSTALL NEW EMERGENCY VEHICLE DETECTOR PER DETAIL ON SHEET SG9. REMOVE EXISTING EVP IF PRESENT.
18. RELOCATE RADAR UNIT.
19. CONSTRUCT COMBINED CONTROLLER CABINET AND POWER SERVICE CABINET FOUNDATION PER THE CABINET FOUNDATION DETAIL ON SHEET SG9 AND PER SPECIFICATIONS. SUPPLY AND INSTALL COMPLETE TRAFFIC SIGNAL CABINET AND POWER SERVICE CABINET PER COB STD DETAIL 7016 AND SPECIFICATIONS. TERMINATE 6-PAIR SIGNAL INTERCONNECT CABLE (SIC) IN CABINET. RELOCATE RADAR CABINET INTERFACE DEVICE FROM EXISTING CABINET TO NEW CABINET, ALONG WITH OTHER REQUIRED EQUIPMENT FOR RADAR DETECTION INTEGRATION IN CABINET PER SPECIFICATIONS. ENGINEER TO FIELD VERIFY CABINET FOUNDATION LOCATION AND ORIENTATION PRIOR TO INSTALLATION.
20. REMOVE AND DISPOSE OF EXISTING CABINET AND FOUNDATION.
RC. REMOVE AND DISPOSE OF EXISTING JUNCTION BOX.

POLE CONSTRUCTION NOTES:

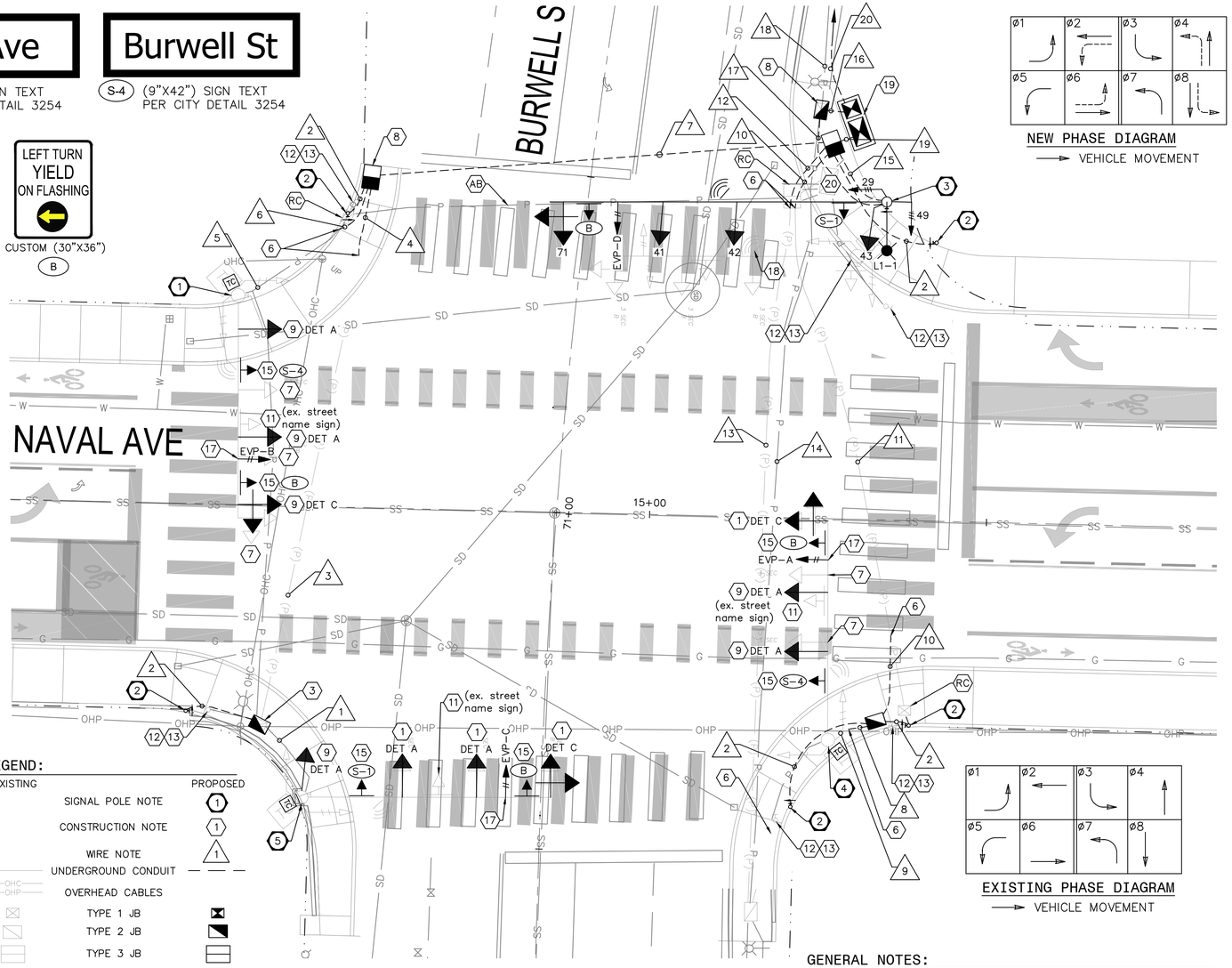
1. PROTECT POLE, FOUNDATION, AND EQUIPMENT IN PLACE. TRIM THE FOUNDATION ABOVE SIDEWALK GRADE FOR SMOOTH CURB LINE. INSTALL/REMOVE/REPLACE/RELOCATE SIGNAL HEADS AND SIGNS PER PLAN. INSTALL EXTENSION ARM FOR ACCESSIBLE PEDESTRIAN PUSHBUTTON. REPLACE EXISTING TERMINAL COMPARTMENT WITH NEW TERMINAL COMPARTMENT PER SPECIFICATIONS.
2. INSTALL PEDESTRIAN PUSH BUTTON POST ON CURB BASE AND FOUNDATION PER WSDOT STANDARD PLAN J-20.11-03. INSTALL ONE RELOCATED ACCESSIBLE PEDESTRIAN PUSH BUTTON.
3. CONSTRUCT SIGNAL POLE FOUNDATION PER POLE SCHEDULE. FURNISH AND INSTALL TYPE III SIGNAL MAST ARM (50') AND POLE. INSTALL NEW VEHICLE SIGNAL HEADS, NEW AND RELOCATED SIGNS PER PLAN, RELOCATED RADAR UNIT, NEW EVP DETECTOR WITH INDICATOR LIGHT, NEW SIGNAL HEADS AND ONE RELOCATED ACCESSIBLE PEDESTRIAN PUSH BUTTON WITH EXTENSION ARM.
4. PROTECT POLE, FOUNDATION, AND EQUIPMENT IN PLACE. TRIM THE FOUNDATION ABOVE SIDEWALK GRADE. INSTALL/REMOVE/REPLACE/RELOCATE SIGNAL HEADS AND SIGNS PER PLAN. REPLACE EXISTING TERMINAL COMPARTMENT WITH NEW TERMINAL COMPARTMENT PER SPECIFICATIONS.
5. PROTECT POLE, FOUNDATION, AND EQUIPMENT IN PLACE. TRIM THE FOUNDATION ABOVE SIDEWALK GRADE FOR SMOOTH CURB LINE. INSTALL/REMOVE/REPLACE/RELOCATE SIGNAL HEADS AND SIGNS PER PLAN. REMOVE EXISTING EXTENSION ARM AND REPLACE EXISTING ACCESSIBLE PEDESTRIAN PUSHBUTTON ON NEW EXTENSION ARM. REPLACE EXISTING TERMINAL COMPARTMENT WITH NEW TERMINAL COMPARTMENT PER SPECIFICATIONS.

SIGNAL HEAD TYPES



SIGNAL MODIFICATIONS NOTES:

1. CONTRACTOR SHALL VERIFY THAT ALL NEW SIGNAL HEADS INSTALLED ARE MOUNTED PER THE WSDOT DESIGN MANUAL. THE MINIMUM VERTICAL CLEARANCE IS 16.5 FEET FROM THE ROADWAY SURFACE TO THE BOTTOM OF SIGNAL HEAD ASSEMBLY.
2. WHERE SIGNAL HEADS ARE CALLED OUT TO BE ADJUSTED, SIGNAL HEADS SHALL BE SET IN THE MIDDLE OF THE LANE THEY ARE ACROSS FROM WITH A MINIMUM SPACING OF 8' BETWEEN THEM, AND SHALL USE EXISTING TENONS WHERE POSSIBLE. THE ENGINEER SHALL CONFIRM THE FINAL SIGNAL HEAD LOCATION.
3. ALL DISCONNECTED AND UNUSED EXISTING WIRING SHALL BE REMOVED FROM CONDUITS AND DISPOSED OF BY THE CONTRACTOR.
4. CONTRACTOR SHALL PLUG OR CAP ALL UNUSED WIREHOLES AND TENONS PER DETAIL 2 ON SHEET SG9.
5. CONTRACTOR SHALL FIELD VERIFY AND INSTALL PEDESTRIAN PUSH BUTTON EXTENSION ADAPTORS TO ALL NEW PUSH BUTTONS TO MEET 10" MAXIMUM REACH DISTANCE FROM PEDESTRIAN ACCESS ROUTE.
6. CONTRACTOR SHALL VERIFY CONDUIT AND AERIAL CONDUCTOR PATHWAYS.
7. WHEN INSTALLING NEW POLE MOUNTED TERMINAL COMPARTMENT CONTRACTOR SHALL TERMINATE ALL EXISTING SIGNAL CONDUCTORS FROM CABINET IN NEW COMPARTMENT AND INSTALL NEW CONDUCTORS FROM NEW TERMINAL COMPARTMENT TO SIGNAL HEADS. USE 5C FOR 3 SECTION SIGNAL HEADS AND 7C FOR 4 AND 5 SECTION SIGNAL HEADS.
8. CONTRACTOR SHALL ADJUST/RESET EMERGENCY PRE-EMPTION DETECTORS PER MOUNTING DETAIL ON SHEET SG9 AS NECESSARY TO ACCOMMODATE TRAFFIC SIGNAL HEADS AND TRAFFIC SIGNS.
9. CONTRACTOR SHALL FIELD VERIFY EXISTING SIGNAL HEAD SIZE AND MANUFACTURER TYPE. MATCHING BACKPLATES ARE REQUIRED TO ENSURE PROPER FIT. MINIMUM OF EIGHT ATTACHMENT POINTS ARE REQUIRED PER SIGNAL HEAD USING STAINLESS STEEL SCREWS AND WASHERS.
10. SEE TYPICAL FLASHING YELLOW ARROW WIRING DIAGRAMS ON SHEET SG9.
11. CONTRACTOR SHALL DOCUMENT EXISTING CABINET AND FIELD WIRING PRIOR TO REMOVING. NEW CABINET AND FIELD EQUIPMENT SHALL BE WIRED TO MAINTAIN OPERATIONS ACCORDINGLY, UNLESS NOTED OTHERWISE.



LEGEND:

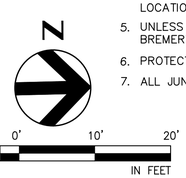
EXISTING		PROPOSED
	SIGNAL POLE NOTE	1
	CONSTRUCTION NOTE	1
	WIRE NOTE	1
	UNDERGROUND CONDUIT	
OHC / OHP	OVERHEAD CABLES	
	TYPE 1 JB	
	TYPE 2 JB	
	TYPE 3 JB	
	TYPE 8 JB	
	POWER SERVICE	
	CONTROLLER CABINET	
B	BACKPLATE	
B+T	BACKPLATE & TAPE	
	PED PUSH BUTTONS	
3 SEC	3 SECTIONS	3 SEC
4 SEC	4 SECTIONS	4 SEC
TC	TERMINAL COMPARTMENT	TC
	PED SIGNAL HEAD	
	EVP DETECTOR (OPTICOM)	
	RADAR	
	STREET SIGN	
	THRU SIGNAL	
	TURN SIGNAL	
	STREETLIGHT	

DISPLAY NOTES:

1. ALL VEHICLE SIGNAL HEADS SHALL BE 12" LED LENSES WITH QUICK CLIP REPLACEMENTS PER SPECIFICATIONS. THE HOUSINGS SHALL BE ALUMINUM AND PAINTED DARK GREEN. ALUMINUM TUNNEL VISORS SHALL BE PAINTED FLAT BLACK IN COLOR ON INSIDE AND SHALL BE DARK GREEN ON THE OUTSIDE. BACKPLATES SHALL BE ALUMINUM. LOUVERED, BLACK IN COLOR FRONT AND BACK, AND SHALL HAVE MANUFACTURER INSTALLED TWO-INCH WIDE BORDER ON THE FRONT SIDE.
2. MOUNT ALL VEHICLE SIGNAL HEADS ON MAST ARMS BETWEEN RED AND YELLOW INDICATION UNLESS NOTED OTHERWISE.
3. ALL PEDESTRIAN SIGNAL DISPLAYS SHALL BE LED, COUNTDOWN TYPE, SOLID (NOT-OUTLINED) SYMBOLIC LEGENDS, AND "Z-CRATE" VISORS. THE ALUMINUM HOUSING SHALL BE PAINTED DARK GREEN WITH FLAT BLACK VISORS.
4. WHERE NOTED WITH "LV" ON PLANS, CONTRACTOR SHALL PROVIDE LOUVERED VISORS FOR ALL SIGNAL HEAD INDICATIONS TO LIMIT VISIBILITY. ENGINEER WILL FIELD VERIFY SIGNAL HEAD ORIENTATION AND AIM.

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF BREMERTON'S REQUIREMENTS AND SPECIFICATIONS.
2. STANDARD PLANS SHALL BE THE LATEST EDITION AND SPECIFICATIONS SHALL BE CURRENT WSDOT/APWA AS MODIFIED BY THE CITY OF BREMERTON, INCLUDING BREMERTON'S STANDARD DETAILS. A COPY OF THESE APPROVED PLANS AND APPLICABLE DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CALL ONE-CALL (811) FOR UTILITY LOCATIONS.
4. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE DEPTHS AND LOCATIONS OF ALL UNDERGROUND UTILITIES.
5. UNLESS NOTED OTHERWISE, ALL FEATURES SHOWN ARE BASED ON CITY OF BREMERTON GIS AND ARE CONSIDERED INFORMATIONAL ONLY.
6. PROTECT EXISTING CONDUIT IN PLACE.
7. ALL JUNCTION BOXES LOCATED IN SIDEWALKS SHALL HAVE NON-SLIP LIDS.



CAD FILE:

ENGINEER STAMP
PABLO PARA
STATE OF WASHINGTON
48510
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. VERT.

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

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DESIGN BY: *MARIA TRIBELHORN* WASH. P.E. # DATE

CHECKED BY: *PABLO PARA, PE, PTOE* WASH. P.E. # DATE

NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL PLAN - NAVAL AVE & BURWELL ST

PN: PROJNUM

SG6
SHEET
159
OF
179

SIGNAL WIRING SCHEDULE

RUN NO.	CONDUIT SIZE/TYPE[4]	SIGNALS & PPBS 20C	EVP (opticom) 3CS	IND. LIGHT 2C	VEH DET 6C[4]	PPB 6C	TWISTED PAIR (EXIST)	ILLUM. #10	CABINET POWER 2/0	SPARE	COMMENTS
1	EXIST.	1	1	1	1	1					
2	NEW 1" PVC SCH 40					1					
3	EXIST.	1	1	1	1						
4	NEW CONDUITS[3]	1	1	1	1						
5	EXIST.	1	1	1	1	1					
6	NEW CONDUITS[3]	1	1	1	1	1					
7	NEW 3" PVC SCH 80	2									
	NEW 3" PVC SCH 80		2	2	2						
	NEW 2" PVC SCH 80									1	
8	NEW CONDUITS[3]	1	1	1	1	1					
9	EXIST.	1	1	1	1	2					
10	NEW CONDUITS[3]	1	1	1	1						
11	EXIST.	1	1	1	1						
12	NEW CONDUITS[3]										
13	EXIST.						1				
14	EXIST.							2			
15	NEW 3" PVC SCH 80	1		1		1					
	NEW 3" PVC SCH 40		1		1						
16	NEW 2" PVC SCH 40									1	
17	NEW 2" PVC SCH 40							2			
18	EXIST.							2			
19	NEW 4" PVC SCH 40	4									
	NEW 4" PVC SCH 40		4	4	4						
	NEW 4" PVC SCH 40									1	
20	NEW 3" PVC SCH 40								3		COORD. W/ PSE

Note 1. Only new conductors shown. Existing conductors shall remain.

Note 2: Contractor to verify conduit runs and match existing conduit size. Schedule 80 shall be used under roadway and schedule 40 may be used under sidewalks and curb ramps.

Note 3: Contractor shall verify existing size/type/number and extend all new conduits to match.

Note 4: Veh Det Cable is Orion Wire Combo-2204-2002-pvcgy for Wavetronix Radar Unit

Note 5. Eachconduit run shall include a #8 ground wire.

CAD FILE:

PABLO PARA — STATE OF WASHINGTON — 48510 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"

TWO INCHES AT FULL SCALE
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HORIZ. VERT.

FIELD BOOK

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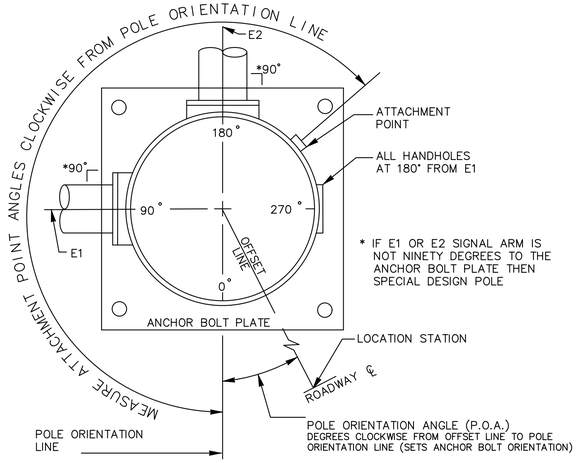
DESIGN BY: *MARIA TRIBELHORN* WASH. P.E. # DATE

CHECKED BY: *PABLO PARA, PE, PTOE* WASH. P.E. # DATE

NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL PLAN - NAVAL AVE & BURWELL ST

PN: PROJNUM

SG7
SHEET
160
OF
179



* IF E1 OR E2 SIGNAL ARM IS NOT NINETY DEGREES TO THE ANCHOR BOLT PLATE THEN SPECIAL DESIGN POLE

POLE ORIENTATION AND ATTACHMENT POINT DETAIL

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

STD. NO. XX
STREET NAME
MANUFACTURER
APPROVED DWG. XXXXXX
FAB. X/XX/XXXX

SIGNAL STANDARD NO.
STREET NAME
APPROVED DRAWING NO.
FABRICATION DATE

EXAMPLE

STD. NO. 02
STREET TO CROSS STREET
MANUFACTURER
APPROVED DWG. AB12345
FAB. 6/14/2002

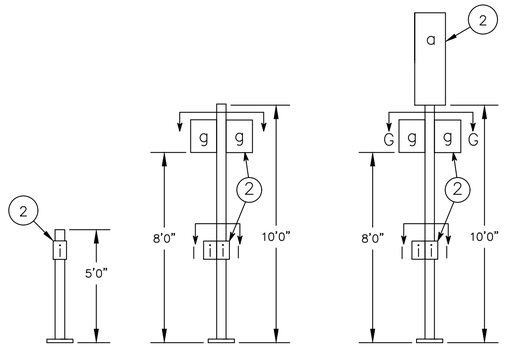
NOTE: CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS: POLE SHAFT – LOCATED WITHIN 6" ABOVE HAND HOLE, SIGNAL AND LUMINAIRE MAST ARM – LOCATED WITHIN 6" OF THE POLE SHAFT CONNECTION POINT. TEXT SHALL BE A MINIMUM OF ⅜" HIGH, STAMPED OR EMBOSSED.

LEGEND

a. Vehicle Display
b. Sign
c. Street Name Sign
d. Pre-Emption Detector
e. Video Detection Camera
f. Luminaire
g. Pedestrian Display
h. Internal Terminal Compartment Handhole
i. Ped Push Button – M
j. Handhole
k. ITS Camera

ALTERNATE NOTE 1

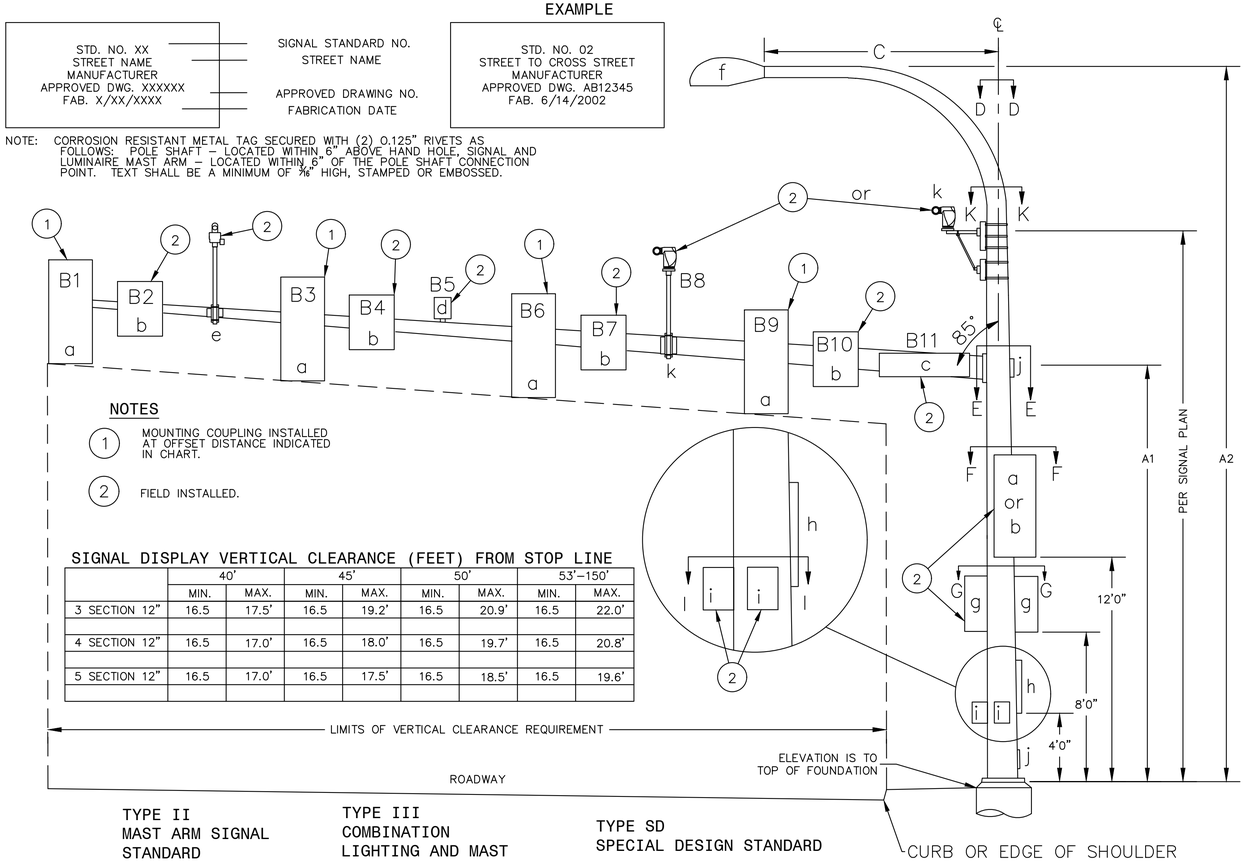
FOR TYPE N MOUNT ONLY DRILL 1" HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING



TYPE PPB
PPB POST

TYPE I
PED. HEAD
STANDARD

TYPE I
VEHICLE HEAD
STANDARD



NOTES

1. MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART.
2. FIELD INSTALLED.

SIGNAL DISPLAY VERTICAL CLEARANCE (FEET) FROM STOP LINE

	40'		45'		50'		53'–150'	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 SECTION 12"	16.5	17.5'	16.5	19.2'	16.5	20.9'	16.5	22.0'
4 SECTION 12"	16.5	17.0'	16.5	18.0'	16.5	19.7'	16.5	20.8'
5 SECTION 12"	16.5	17.0'	16.5	17.5'	16.5	18.5'	16.5	19.6'

LIMITS OF VERTICAL CLEARANCE REQUIREMENT

TYPE II
MAST ARM SIGNAL
STANDARD

TYPE III
COMBINATION
LIGHTING AND MAST
ARM SIGNAL
STANDARD

TYPE SD
SPECIAL DESIGN STANDARD

SIGNAL STANDARD DETAIL CHART

STD. No.	FIELD LOCATION							TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA																					POLE ATTACHMENT POINT ANGLES (deg)					FOUNDATION DESIGN				REMARKS
											OFFSET DISTANCES (FT) (Z)											WINDLOAD AREAS (FT^2) (X)(Y)											LUMINAIRE ARM		(X)(Y)(Z) TOTAL						SOIL PSF	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	
	STREET	STATION	OFFSET	LT.	RT.	ELEV.	P.O.A		A1	A2	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	AREA	C	(FT3)	D1	E1	F	G1	G2		3' RD.	3' SQR	4' RD.	
TBD	Naval Ave						0	III	19	35																							1.4	8	100						1500	9	7	7	15TH ST INT, SEE SHEET SG1
TBD	Naval Ave						0	III	19	35																							1.4	8	100						1500	11	8	8	15TH ST INT, SEE SHEET SG1
4	Naval Ave	36+89.54	29.81	X			0	III	19	35	32.0	28.0	22.0			13.5					8.5	9.2	7.5	9.2			9.2					36.0	1.4	8	1300	90	90		180	270	1500	9	7	7	11TH ST INT, SEE SHEET SG3
5	Naval Ave	36+94.14	30.80		X		0	III	19	35	36.0	22.5	26.0	7.5		10.5					14.5	9.2	7.5	9.2	7.5		9.2	7.5				36.0	1.4	12	1600	0	0		90	180	1500	11	8	8	11TH ST INT, SEE SHEET SG3
5	Naval Ave	22+81.15	34.25	X			0	II	19		32.0		19.0								8.5	9.2		9.2								36.0	1.4	8	900		0	270	180	270	1500	13	8	8	6TH ST INT, SEE SHEET SG5
3	Naval Ave	15+34.09	47.18	X			0	III	19	35	48.0	44.0	33.0			22.0					8.5	11.6	7.5	9.2			9.2					36.0	1.4	12	1900	0	90	0	180	270	1500	13	8	8	BURWELL ST INT, SEE SHEET SG6

CAD FILE:

PABLO PARA — STATE OF WASHINGTON — 48810 — REGISTERED PROFESSIONAL ENGINEER — ENGINEER STAMP

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. VERT.

FIELD BOOK

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NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL SCHEDULE - NAVAL AVE & BURWELL ST

PN. PROJNUM

SG8
SHEET
161
OF
179

REPAIR PROCEDURE - BOLT HOLE SIZE 1/2" (IN) DIAMETER OR LESS ~

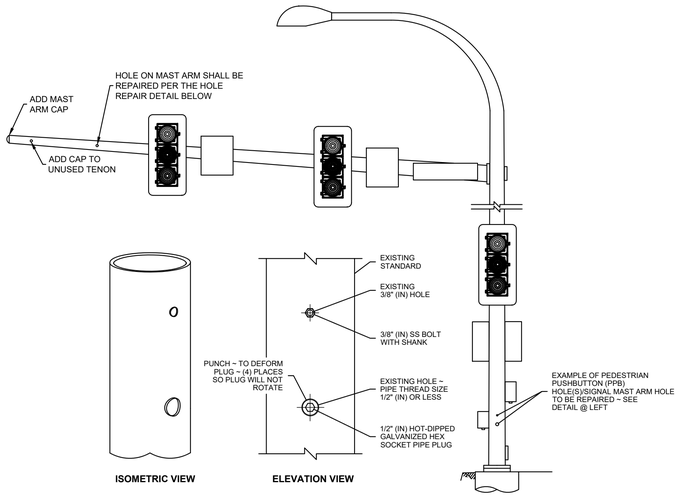
PIPE TRADE SIZE 1/2" (IN) OR LESS

FOR UNC OR UNF THREADS:

- APPLY SILICONE CAULK TO THREADS OF SS BOLT WITH SHANK.
- TIGHTEN SS BOLT UNTIL SHANK IS TIGHT AGAINST STANDARD.
- CUT OFF SS BOLT EVEN WITH STANDARD.
- FILE SS BOLT TO MATCH CONTOUR OF STANDARD.
- TREAT SS BOLT AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
- APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.

FOR NATIONAL PIPE THREADS:

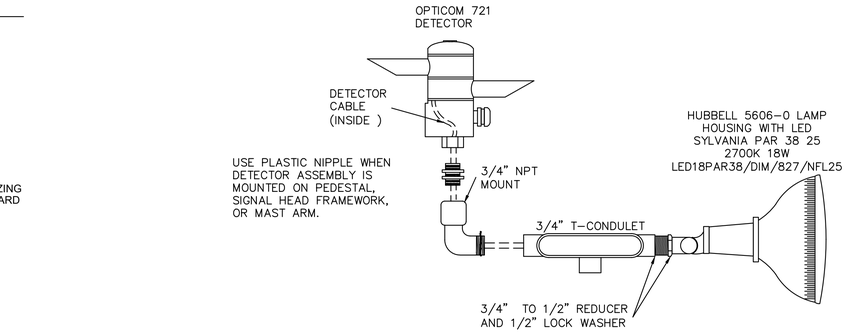
- APPLY SILICONE CAULK TO THREADS OF HOT-DIPPED GALVANIZED HEX SOCKET PIPE PLUG.
- TIGHTEN PLUG UNTIL FLUSH WITH STANDARD.
- FILE PLUG TO MATCH CONTOUR OF STANDARD.
- FILL HEX SOCKET WITH PAINTABLE SILICONE CAULK.
- TREAT PLUG AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2).
- APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.



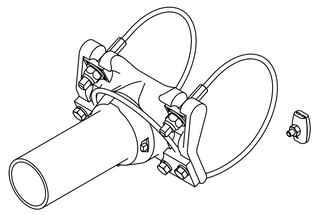
HOLE REPAIR DETAIL

EXAMPLE OF REPAIR FROM PPB LOCATION ~ 1/2" (IN) DIAMETER AND 3/8" (IN) DIAMETER HOLES SHOWN

DETAIL 2: HOLE REPAIR/MAST ARM CAP
N.T.S.

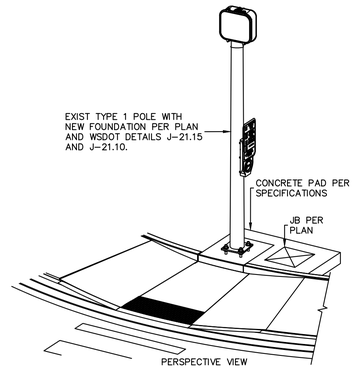


EMERGENCY PREEMPTION DETECTOR/EMITTER

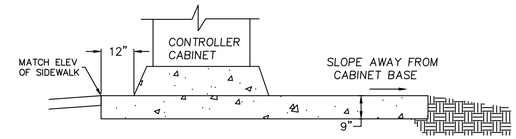


CABLEBANDED CLAMP KIT WITH SUPPORT TUBE FOR PLUMBIZER M MOUNT
PELCO PRODUCTS PART NO. AB-3053

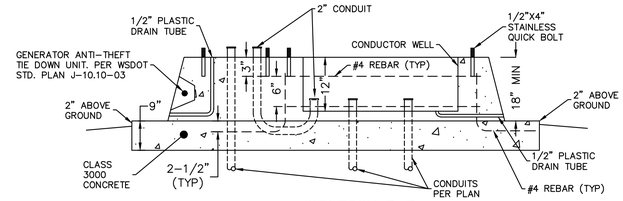
MAST ARM MOUNTED SIGNALS SHALL USE THE STANDARD 6" PLUMBIZER SUPPORT TUBE. POLE MOUNTED SIGNALS SHALL USE A 12" PLUMBIZER TUBE.



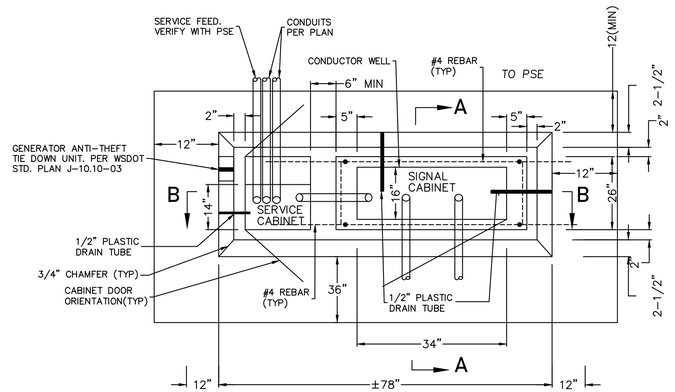
MODIFIED FOUNDATION WITH CURB BASE DETAIL



SECTION A-A

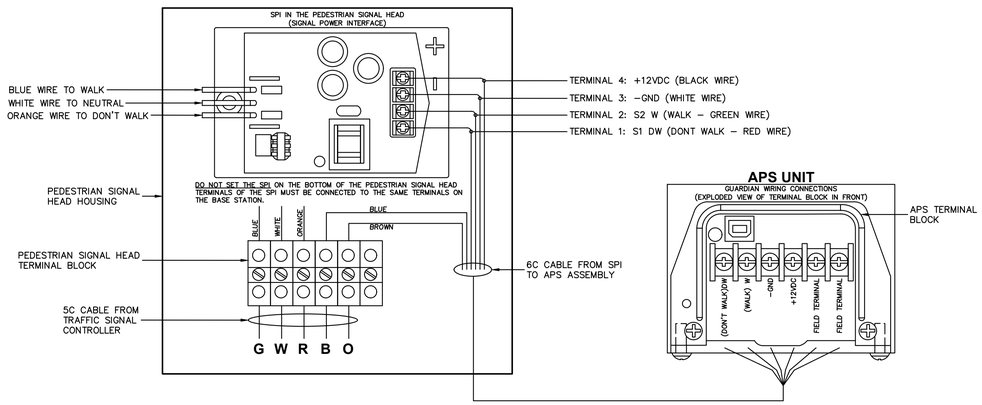


SECTION B-B



PLAN VIEW

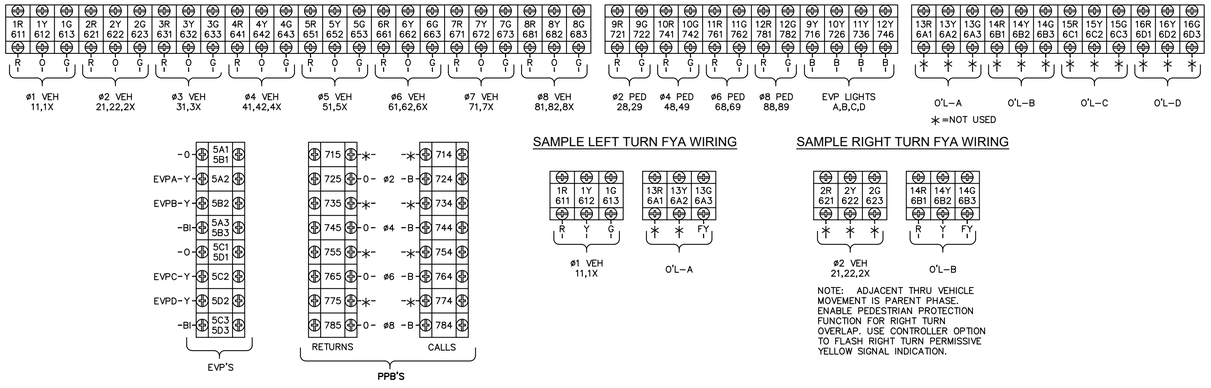
CABINET FOUNDATION DETAIL



PEDESTRIAN SIGNAL AND APS UNIT WIRING DETAIL

CASCADE SIGNALS CORP. CITY OF BREMERTON STANDARD CABINET WIRING TERMINATIONS

NOTE: WIRING TERMINATIONS SHOWN ARE TYPICAL. ONLY USE APPLICABLE PORTIONS PER PLAN. MODIFY AS NEEDED TO MAINTAIN CONSISTENCY WITH EXISTING AND PROPOSED FIELD PHASING PER PLAN. COORDINATE WITH CITY TRAFFIC SIGNAL TECHNICIAN PRIOR TO MODIFYING CABINET WIRING OR RE-LABELING.



SAMPLE LEFT TURN FYA WIRING

SAMPLE RIGHT TURN FYA WIRING

NOTE: ADJACENT THRU VEHICLE MOVEMENT IS PARENT PHASE. ENABLE PEDESTRIAN PROTECTION FUNCTION FOR RIGHT TURN OVERLAP. USE CONTROLLER OPTION TO FLASH RIGHT TURN PERMISSIVE YELLOW SIGNAL INDICATION.

TYPICAL FLASHING YELLOW ARROW WIRING DIAGRAMS

WIRING SCHEMATICS SHOWN ARE TYPICAL AND ONLY APPLICABLE PORTIONS SHALL BE USED PER PLAN.

CAD FILE:

PABLO PARA — STATE OF WASHINGTON — 48810 — REGISTERED PROFESSIONAL ENGINEER
ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. VERT.

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *ERIC RIVERA* DATE

DESIGN BY: *MARIA TRIBELHORN* WASH. P.E. # DATE

CHECKED BY: *PABLO PARA, PE, PTOE* WASH. P.E. # DATE

NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
TRAFFIC SIGNAL DETAILS

PN: PROJNUM

SG9
SHEET 162 OF 179

CONSTRUCTION NOTES:

(1) INSTALL SOLAR POWERED BI-DIRECTIONAL RRFB ASSEMBLY WITH INTEGRATED ST-LIGHT PER PLAN, SPECIFICATIONS, DETAIL ON SHEET SG-14, AND MANUFACTURERS REQUIREMENTS.

(3) REMOVE TREE.

GENERAL NOTES:

1. ENGINEER TO FIELD VERIFY ALL SIGN LOCATIONS PRIOR TO INSTALLATION.
2. ALL NEW SIGNS SHALL BE INSTALLED IN EXISTING RIGHT OF WAY OR EASEMENT.
3. SIGN FABRICATION CODES PER SPECIAL PROVISIONS 8-21.3.

LEGEND:

(1) CONSTRUCTION NOTE

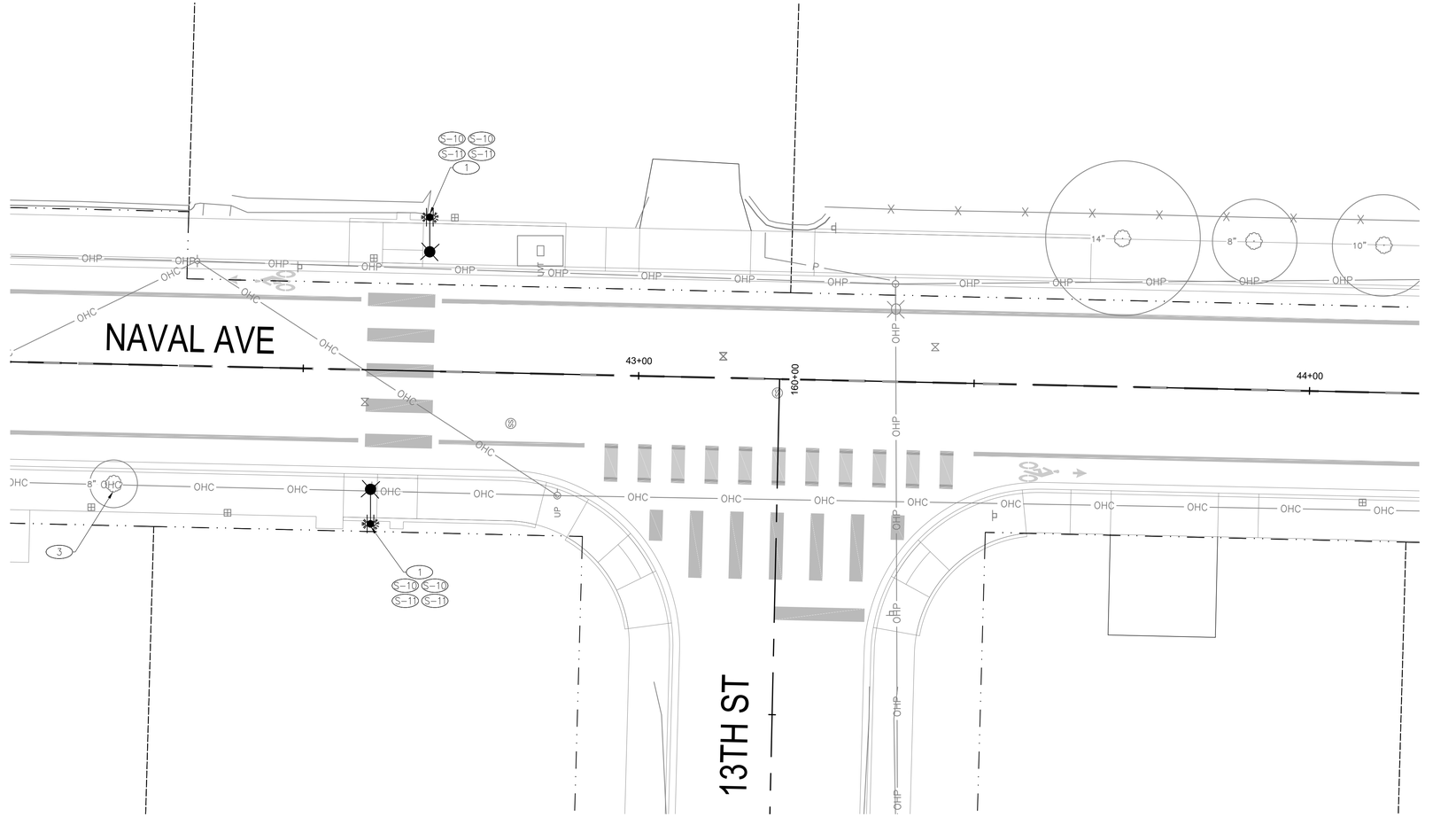
(S-1) SIGN NOTE NUMBER

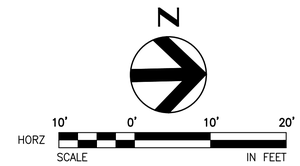
BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY

SINGLE DIRECTION RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

SIGN NOTE	SIGN CODE WSDOT OR SPECIAL	NAME	COLOR	DIMENSIONS
S-10	W11-2	PEDESTRIAN CROSSING	YELLOW/BLACK	30"x30"
S-11	W16-7p (L/R)	ARROW	YELLOW/BLACK	24"x12"





CAD FILE:

ENGINEER STAMP

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SCALE
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FIELD BOOK

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NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
RECTANGULAR RAPID FLASHING BEACON - NAVAL AVE & 13TH ST

PN: PROJNUM

SG10
SHEET
163
OF
179

CONSTRUCTION NOTES:

(1) INSTALL SOLAR POWERED BI-DIRECTIONAL RRFB ASSEMBLY WITH INTEGRATED ST-LIGHT PER PLAN, SPECIFICATIONS, DETAIL ON SHEET SG-14, AND MANUFACTURERS REQUIREMENTS.

GENERAL NOTES:

1. ENGINEER TO FIELD VERIFY ALL SIGN LOCATIONS PRIOR TO INSTALLATION.
2. ALL NEW SIGNS SHALL BE INSTALLED IN EXISTING RIGHT OF WAY OR EASEMENT.
3. SIGN FABRICATION CODES PER SPECIAL PROVISIONS 8-21.3.

LEGEND:

(1) CONSTRUCTION NOTE

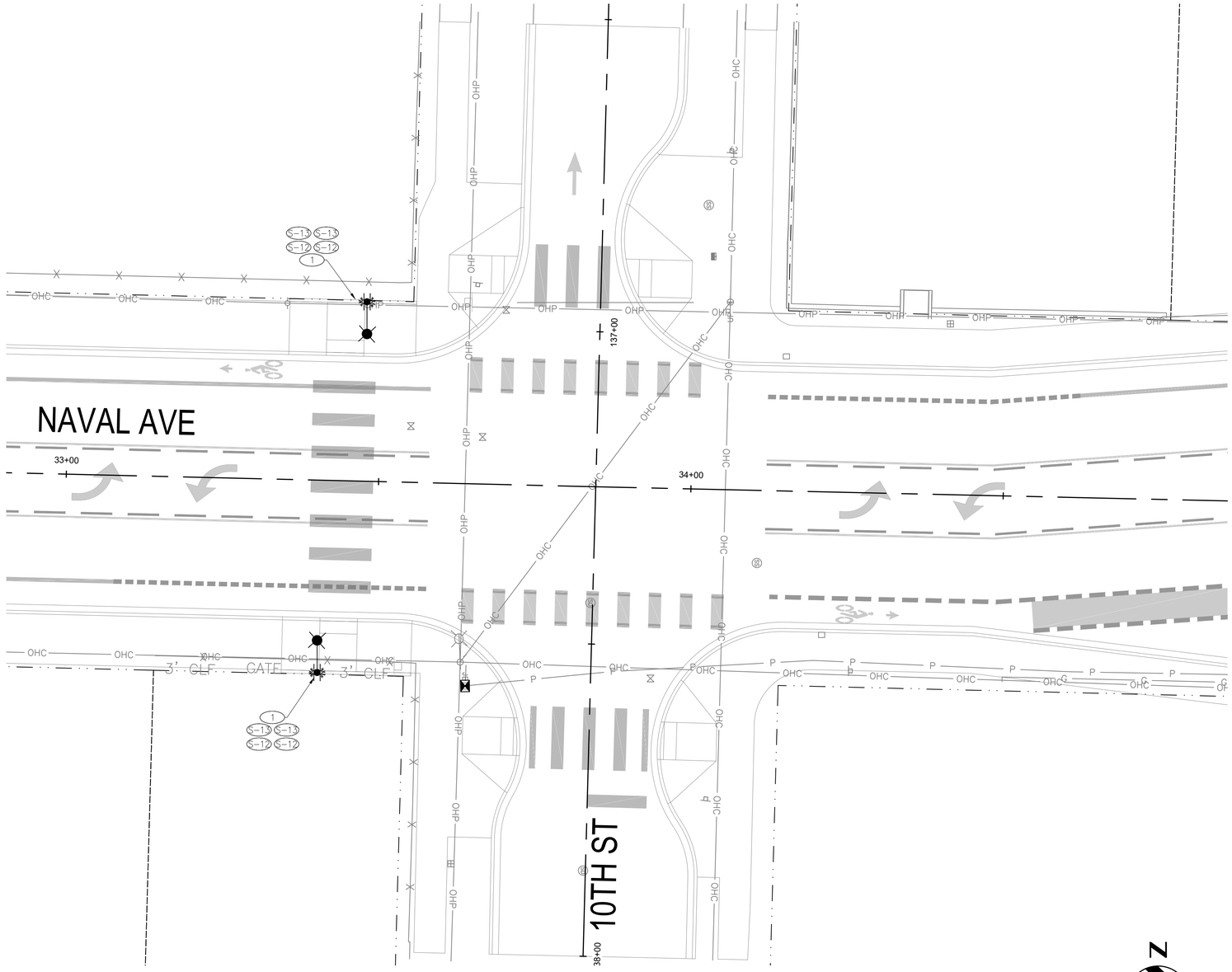
(S-1) SIGN NOTE NUMBER

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY

SINGLE DIRECTION RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

SIGN NOTE	SIGN CODE WSDOT OR SPECIAL	NAME	COLOR	DIMENSIONS
S-12	W16-7p (L/R)	ARROW	FL. GREEN/BLACK	24"x12"
S-13	S1-1	SCHOOL CROSSING	FL. GREEN/BLACK	36"x36"



N

HORZ SCALE: 10' 0' 10' 20' IN FEET

CAD FILE:

PABLO PARA — STATE OF WASHINGTON — 48510 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. VERT.

FIELD BOOK

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NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
RECTANGULAR RAPID FLASHING BEACON - NAVAL AVE & 10TH ST

PN: PROJNUM

SG11
SHEET 164 OF 179

CONSTRUCTION NOTES:

(2) INSTALL SOLAR POWERED BI-DIRECTIONAL RRFB ASSEMBLY PER PLAN, SPECIFICATIONS, DETAIL ON SHEET SG-14, AND MANUFACTURERS REQUIREMENTS.

(4) INSTALL SOLAR POWERED SINGLE DIRECTIONAL RRFB ASSEMBLY WITH INTEGRATED ST-LIGHT PER PLAN, SPECIFICATIONS, DETAIL ON SHEET SG-14, AND MANUFACTURERS REQUIREMENTS.

GENERAL NOTES:

1. ENGINEER TO FIELD VERIFY ALL SIGN LOCATIONS PRIOR TO INSTALLATION.
2. ALL NEW SIGNS SHALL BE INSTALLED IN EXISTING RIGHT OF WAY OR EASEMENT.
3. SIGN FABRICATION CODES PER SPECIAL PROVISIONS 8-21.3.

LEGEND:

(1) CONSTRUCTION NOTE

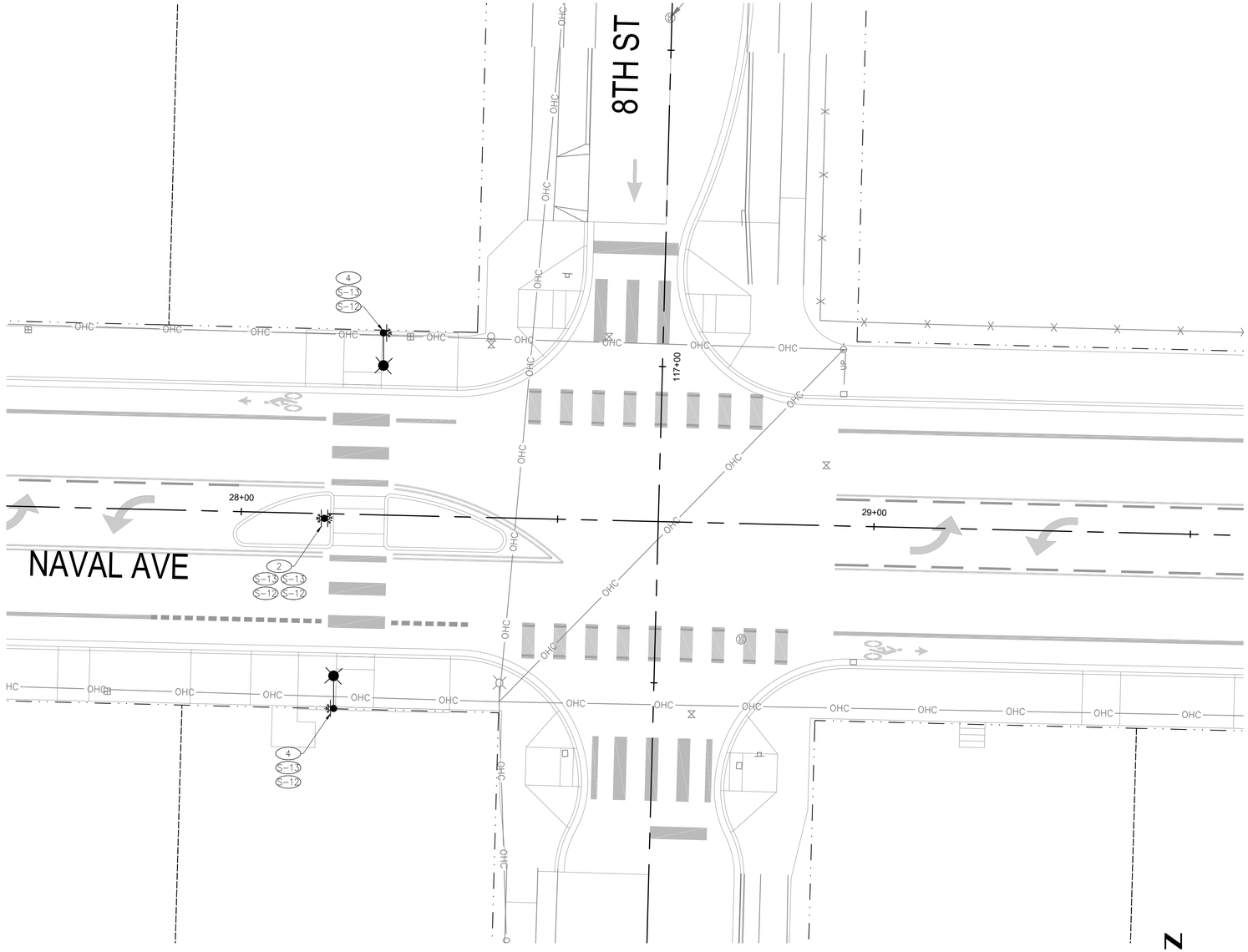
(S-1) SIGN NOTE NUMBER

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY

SINGLE DIRECTION RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

SIGN NOTE	SIGN CODE WSDOT OR SPECIAL	NAME	COLOR	DIMENSIONS
S-12	W16-7p (L/R)	ARROW	FL. GREEN/BLACK	24"x12"
S-13	S1-1	SCHOOL CROSSING	FL. GREEN/BLACK	36"x36"



CAD FILE:

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NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
RECTANGULAR RAPID FLASHING BEACON - NAVAL AVE & 8TH ST

PN: PROJNUM

SG12
SHEET
165
OF
179

CONSTRUCTION NOTES:

(1) INSTALL SOLAR POWERED BI-DIRECTIONAL RRFB ASSEMBLY WITH INTEGRATED ST-LIGHT PER PLAN, SPECIFICATIONS, DETAIL ON SHEET SG-14, AND MANUFACTURERS REQUIREMENTS.

GENERAL NOTES:

1. ENGINEER TO FIELD VERIFY ALL SIGN LOCATIONS PRIOR TO INSTALLATION.
2. ALL NEW SIGNS SHALL BE INSTALLED IN EXISTING RIGHT OF WAY OR EASEMENT.
3. SIGN FABRICATION CODES PER SPECIAL PROVISIONS 8-21.3.

LEGEND:

(1) CONSTRUCTION NOTE

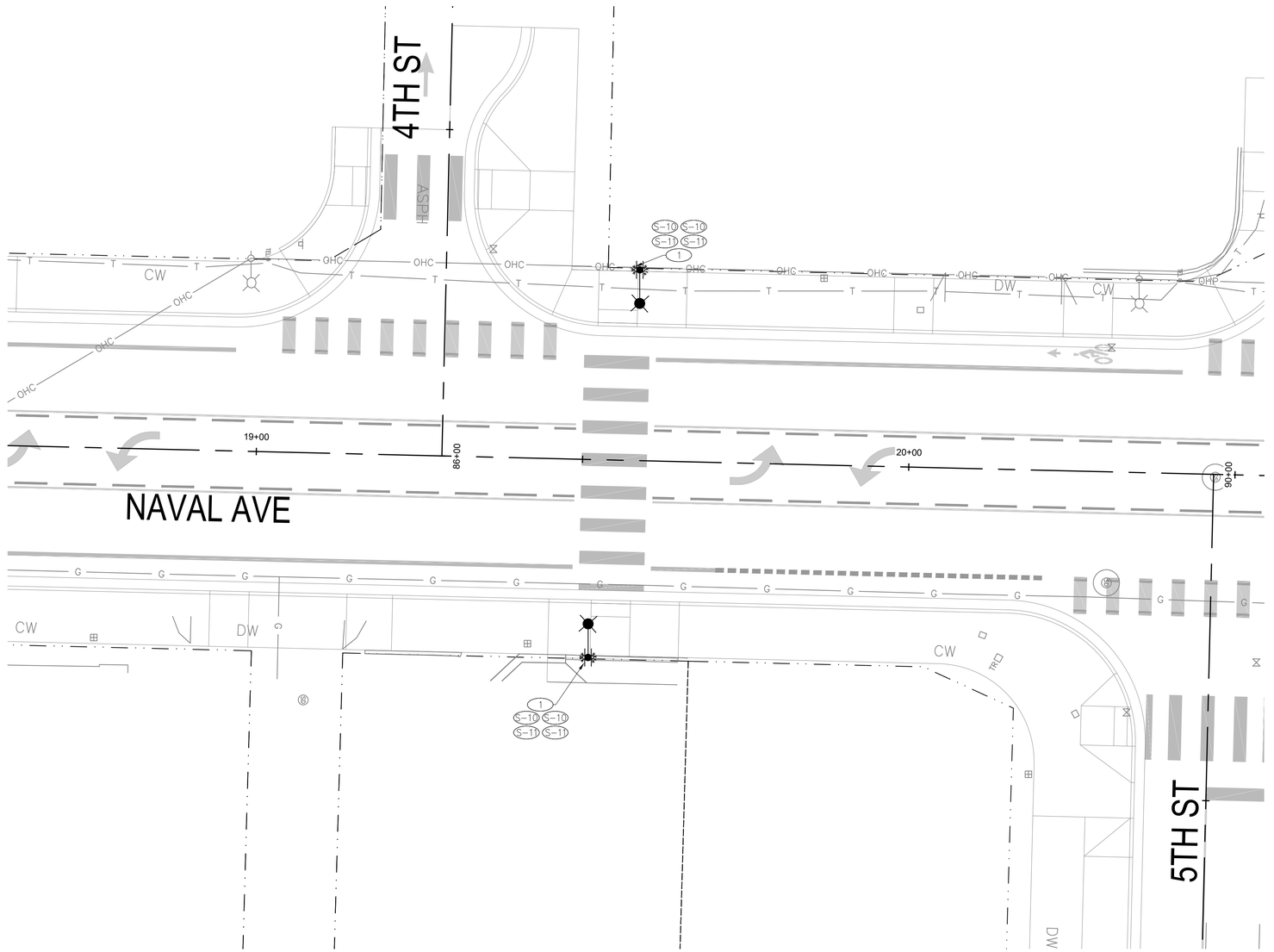
(S-1) SIGN NOTE NUMBER

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY

SINGLE DIRECTION RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

BI-DIRECTIONAL RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH ST-LIGHT ASSEMBLY

SIGN NOTE	SIGN CODE WSDOT OR SPECIAL	NAME	COLOR	DIMENSIONS
S-10	W11-2	PEDESTRIAN CROSSING	YELLOW/BLACK	30"x30"
S-11	W16-7p (L/R)	ARROW	YELLOW/BLACK	24"x12"



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PABLO PARA — STATE OF WASHINGTON — 48810 — REGISTERED PROFESSIONAL ENGINEER

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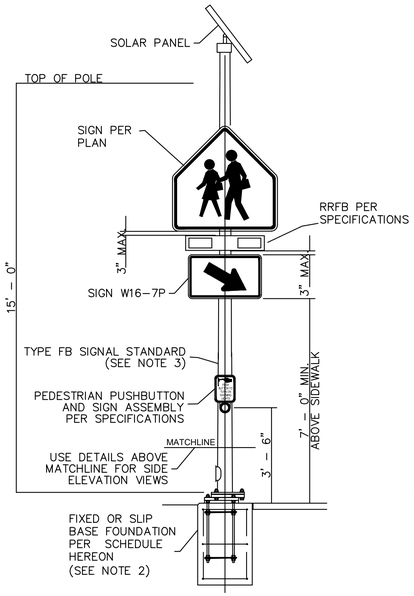
NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS
RECTANGULAR RAPID FLASHING BEACON - NAVAL AVE & 4TH ST

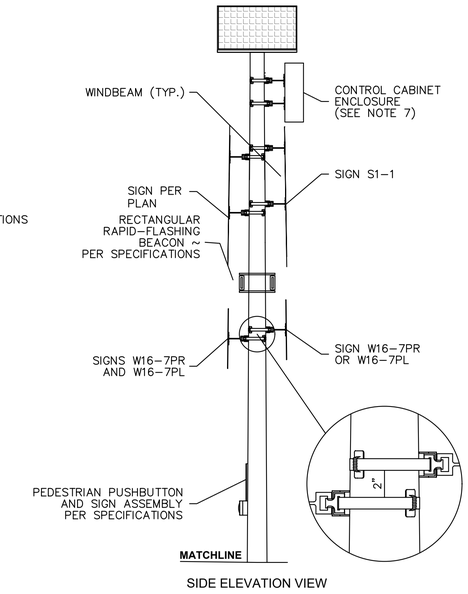
PN: PROJNUM

SG13
SHEET
166
OF
179



FRONT ELEVATION VIEW

RAPID-FLASHING BEACON

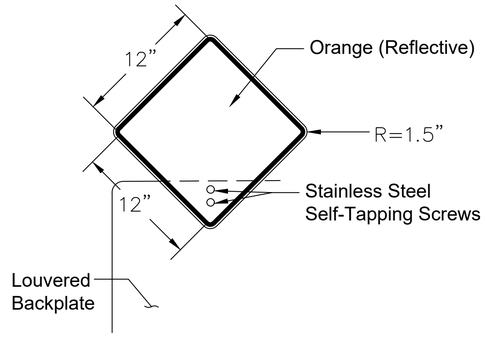


SIDE ELEVATION VIEW

BI-DIRECTIONAL CONFIGURATION DETAILS

NOTES

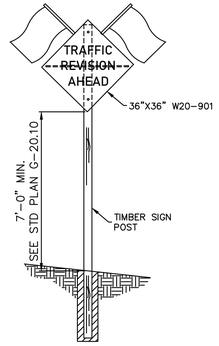
1. SEE SIGNING PLANS FOR SIZE/TYPE DETAILS.
2. SEE STANDARD PLAN J-21.10 FOR SIGNAL STANDARD FOUNDATION WITH FIXED BASE AND SLIP BASE DETAILS.
3. SEE STANDARD PLAN J-21.16 FOR SIGNAL STANDARD DETAILS NOT SHOWN.
4. SEE STANDARD PLAN J-21.17, DETAIL C FOR WIRING DETAILS NOT SHOWN.
5. SEE STANDARD PLAN G-30.10 FOR SIGN INSTALLATION ON SIGNAL STANDARD DETAILS.
6. TERMINATE RFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
7. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RFB MANUFACTURER. THE CONTROL CABINET SHALL BE MANUFACTURED PER TERMINAL CABINET REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.25.
8. RRFB DISPLAYS SHALL BE LED TYPE MEETING THE INTENSITY REQUIREMENTS OF SAE J595 FOR CLASS 1 YELLOW, BUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.
9. FOR POSTED SPEEDS OF 35 MPH OR LOWER, THE W11-2 SIGNS SHALL BE 36" x 36". FOR POSTED SPEEDS OF 40 MPH OR HIGHER, THE W11-2 SIGNS SHALL BE 48" x 48".



TEMPORARY WARNING PLACARD

1 -

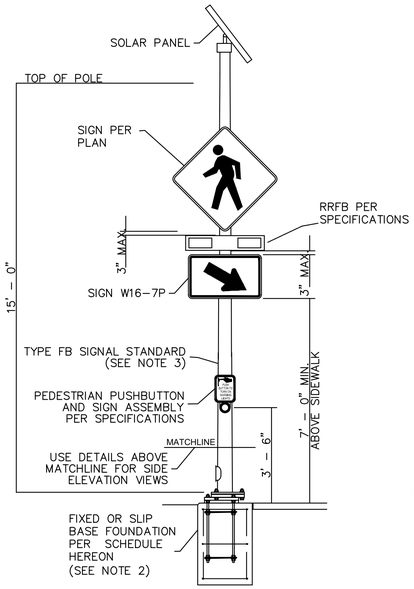
INSTALL PER SPECIFICATIONS 8-21.3(13)



TEMPORARY "TRAFFIC REVISION AHEAD" SIGN

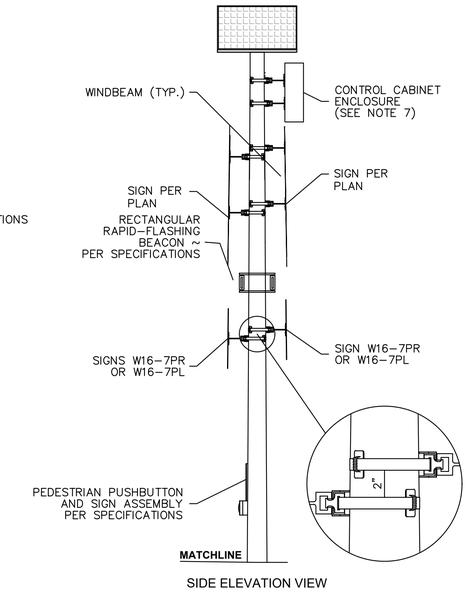
INSTALL PER SPECIFICATIONS 8-21.3(13)

RECTANGULAR TYPE RAPID-FLASHING BEACON (RRFB) DETAIL RRFB-1 (SCHOOL ZONE)



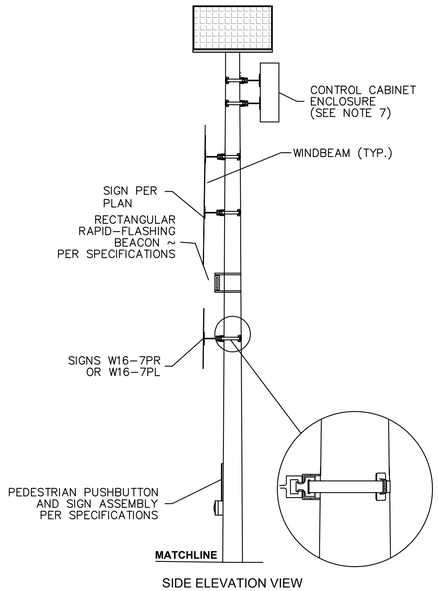
FRONT ELEVATION VIEW

RAPID-FLASHING BEACON



SIDE ELEVATION VIEW

BI-DIRECTIONAL CONFIGURATION DETAILS



SIDE ELEVATION VIEW

SINGLE-SIDED CONFIGURATION DETAILS

RECTANGULAR TYPE RAPID-FLASHING BEACON (RRFB) DETAIL RRFB-2

CAD FILE:

PABLO PARA — STATE OF WASHINGTON — 48210 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE

HORIZ. VERT.

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON

DEPARTMENT OF PUBLIC WORKS & UTILITIES

ENGINEERING DIVISION

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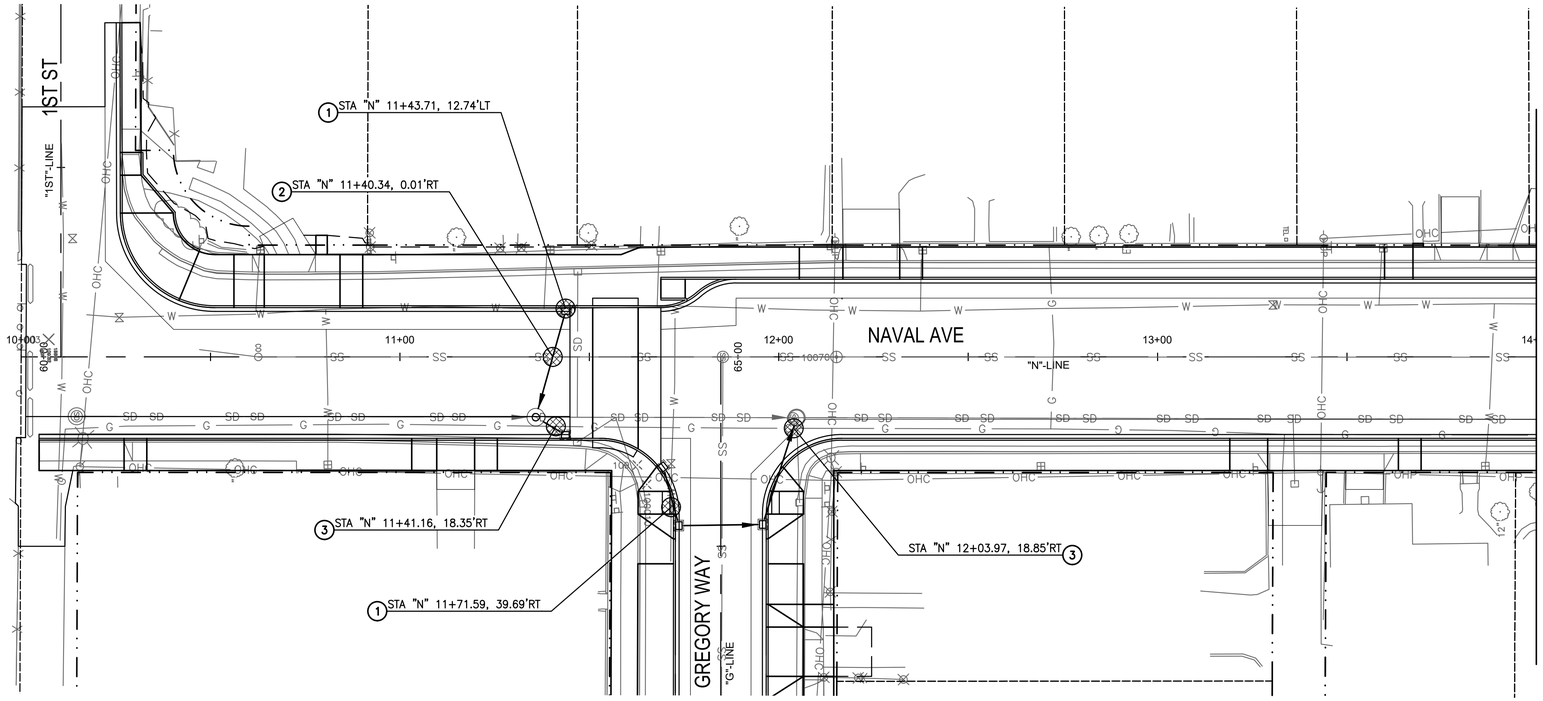
NAVAL AVENUE - 1ST TO 15TH BIKE & PEDESTRIAN ENHANCEMENTS

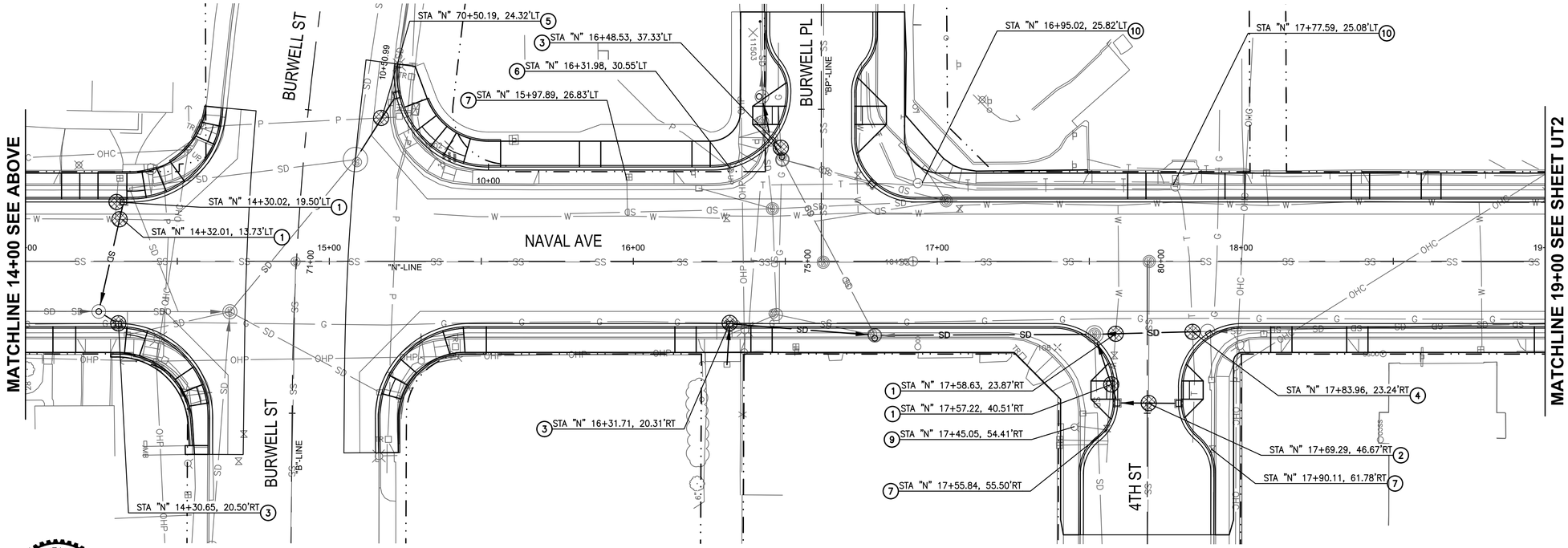
RECTANGULAR RAPID FLASHING BEACON DETAILS

PN: PROJNUM

SG14

SHEET 167 OF 179





GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET.
2. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATE LOCATIONS ONLY BASED ON THE FIELD LOCATION OF UTILITY LOCATE PAINT MARKS AND PHYSICAL FEATURES VISIBLE ON OR ABOVE THE GROUND SURFACE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY AND ALL UNDERGROUND UTILITIES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AN ALL DAMAGES ARISING OUT OF HIS/HER FAILURE TO EXACTLY LOCATE AND PROTECT ALL EXISTING UTILITY FACILITIES. OTHER UTILITIES OR UTILITY CONFLICTS MAY BE PRESENT THAT ARE NOT SHOWN ON THESE PLANS AND WERE NOT LOCATED BY THE FEATURE SURVEY.
3. UTILITY LOCATES TO BE PERFORMED AFTER 90% PLAN DELIVERABLE. UTILITY COORDINATION TO BEGIN AFTER 90% PLAN DELIVERABLE.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL UTILITIES BEFORE WORK COMMENCES. CALL 811 AT LEAST 2 WORKING DAYS PRIOR TO ANY CONSTRUCTION.
5. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY CONFLICTS NOT NOTED ON THESE PLANS ARE FOUND.
6. EXISTING UTILITIES TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
7. GAS VALVES TO BE ADJUSTED BY CASCADE NATURAL GAS.
8. UTILITY POLES TO BE RELOCATED BY PSE.
9. ANY POTHOLED UTILITY THAT IS CONFIRMED TO BE IN CONFLICT WITH THE PROPOSED DRAINAGE DESIGN IS TO BE RELOCATED BY OTHERS.
10. THE LOCATION AND DEPTH OF THE PROPOSED DRAINAGE UTILITIES MAY BE MODIFIED TO AVOID UTILITY CONFLICTS WITH APPROVAL FROM THE ENGINEER.
11. SEE DR SHEETS FOR DRAINAGE INFORMATION.

CONSTRUCTION NOTES

1. EXISTING WATER UTILITY. THE CONTRACTOR IS TO POTHOLE TO VERIFY UTILITY LOCATION AND DEPTH.
2. EXISTING SANITARY SEWER UTILITY. THE CONTRACTOR IS TO POTHOLE TO VERIFY UTILITY LOCATION AND DEPTH.
3. EXISTING GAS UTILITY. CASCADE NATURAL GAS IS TO POTHOLE TO VERIFY UTILITY LOCATION AND DEPTH.
4. EXISTING COMMUNICATION UTILITY. THE CONTRACTOR IS TO POTHOLE TO VERIFY UTILITY LOCATION AND DEPTH.
5. EXISTING TRAFFIC SIGNAL UTILITY. THE CONTRACTOR IS TO POTHOLE TO VERIFY UTILITY LOCATION AND DEPTH.
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13. ADJUST JUNCTION BOX.

LEGEND

PROPOSED STORM DRAIN CROSSING EXISTING UTILITY (AS NOTED). THE CONTRACTOR, CITY, AND/OR UTILITY COMPANIES SHALL POTHOLE EACH LOCATION TO VERIFY EXISTING UTILITY DEPTH.

811 Know what's **below.** **Call** before you dig.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP: CAMERON CRAIG FRENCH, STATE OF WASHINGTON, 21018737, REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE — HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *C. FRENCH* DATE ---

DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---

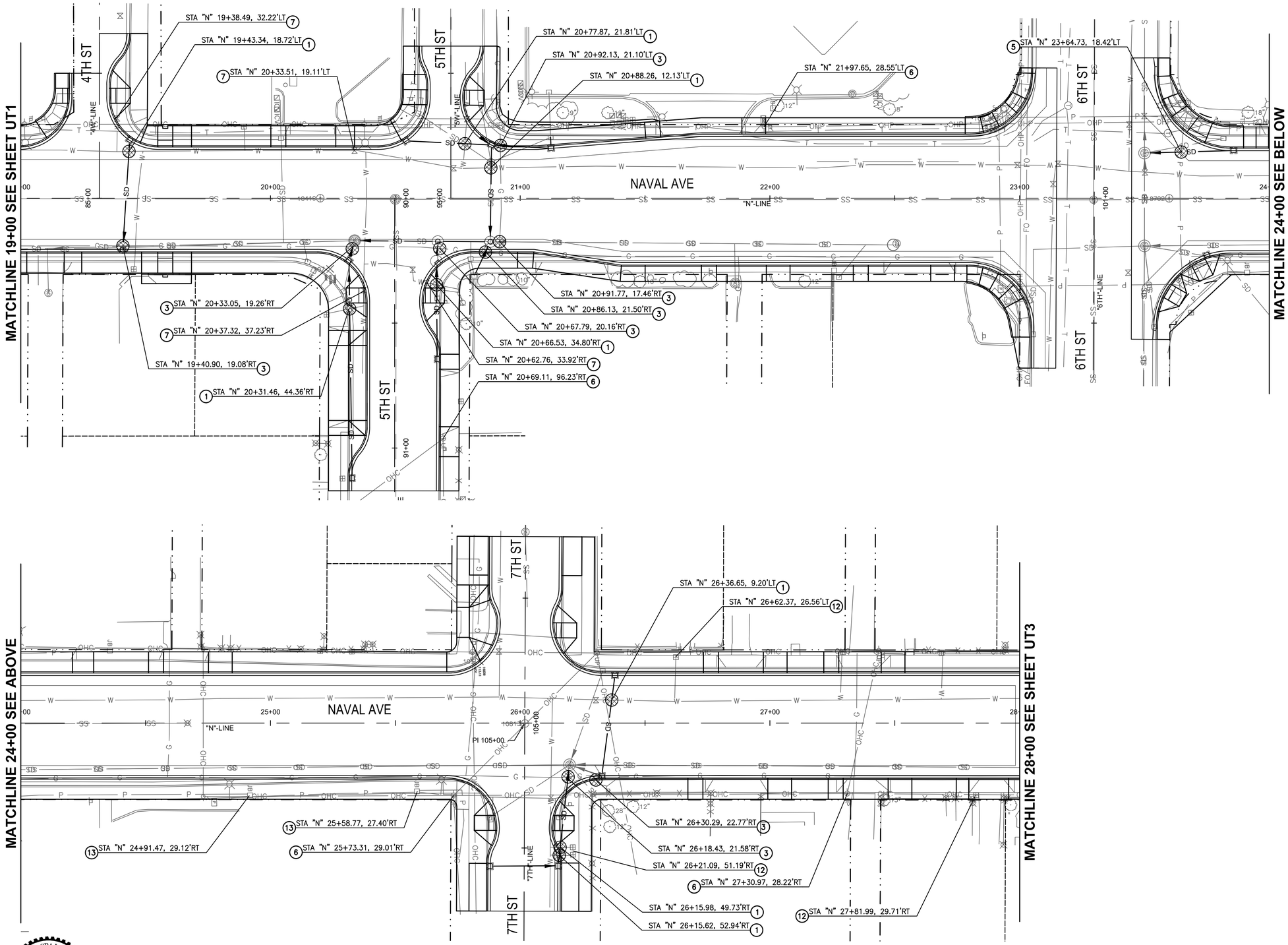
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT UTILITY PLANS BEGIN TO STA 19+00

PN. PROJNUM

UT1

SHEET 168 OF 179



GENERAL NOTES

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13. ADJUST JUNCTION BOX.

LEGEND

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811 Know what's below. Call before you dig.

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP: CAMERON CRAIG FRENCH, STATE OF WASHINGTON, 21018722, REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *C. FRENCH* DATE ---

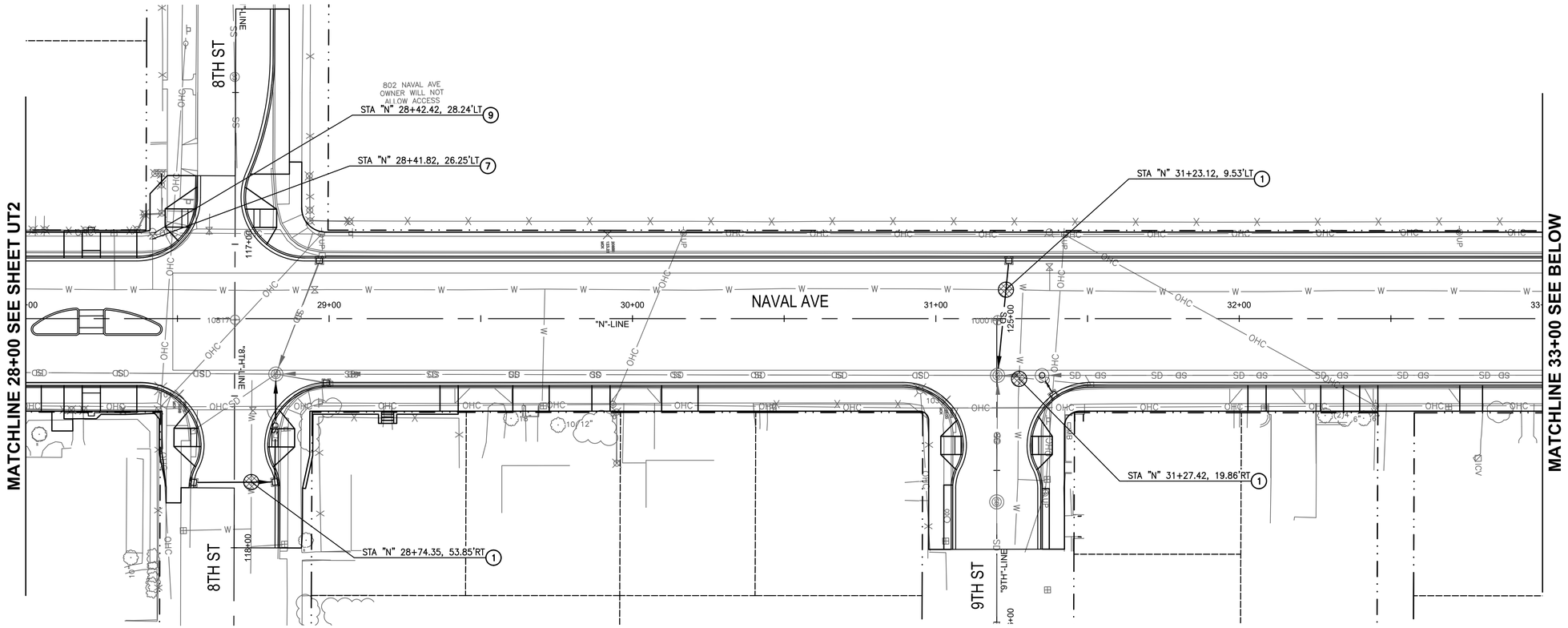
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---

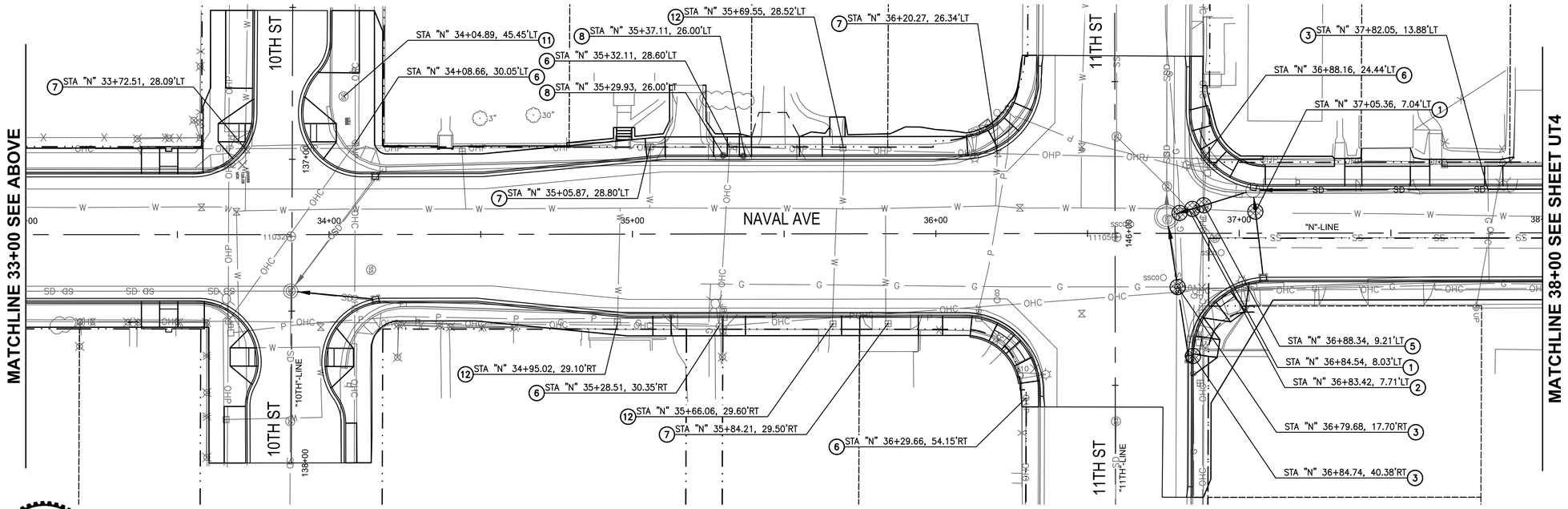
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT UTILITY PLANS STA 19+00 TO STA 28+00

P.N. PROJNUM

UT2 SHEET 169 OF 179





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N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

CAMERON CRAIG FRENCH STATE OF WASHINGTON 21018727 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *C. FRENCH* DATE ---

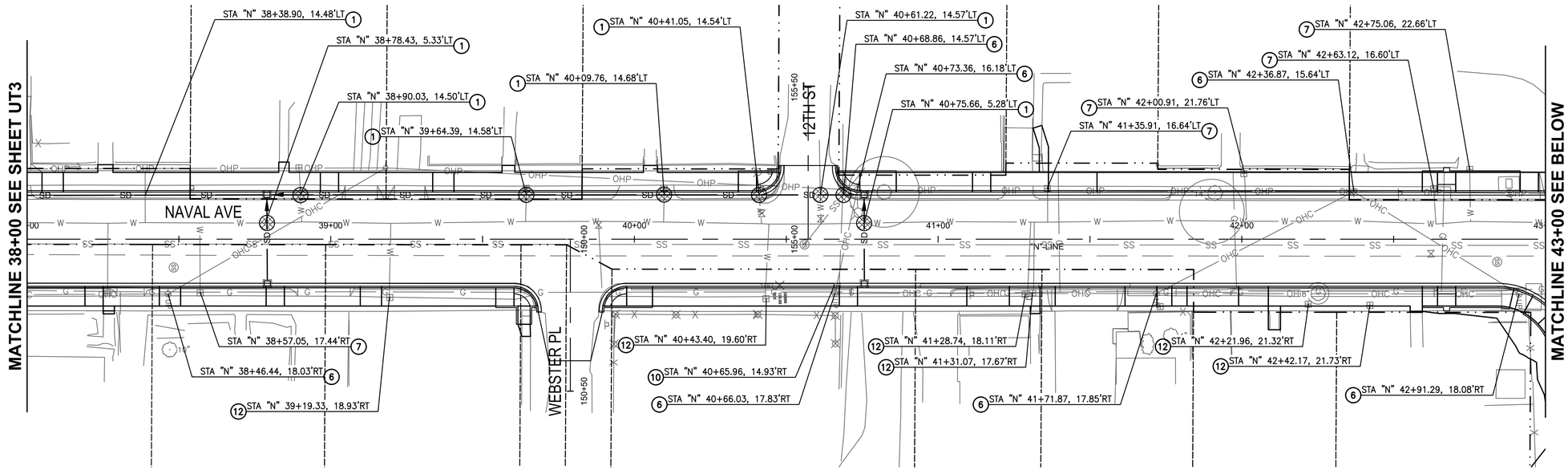
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---

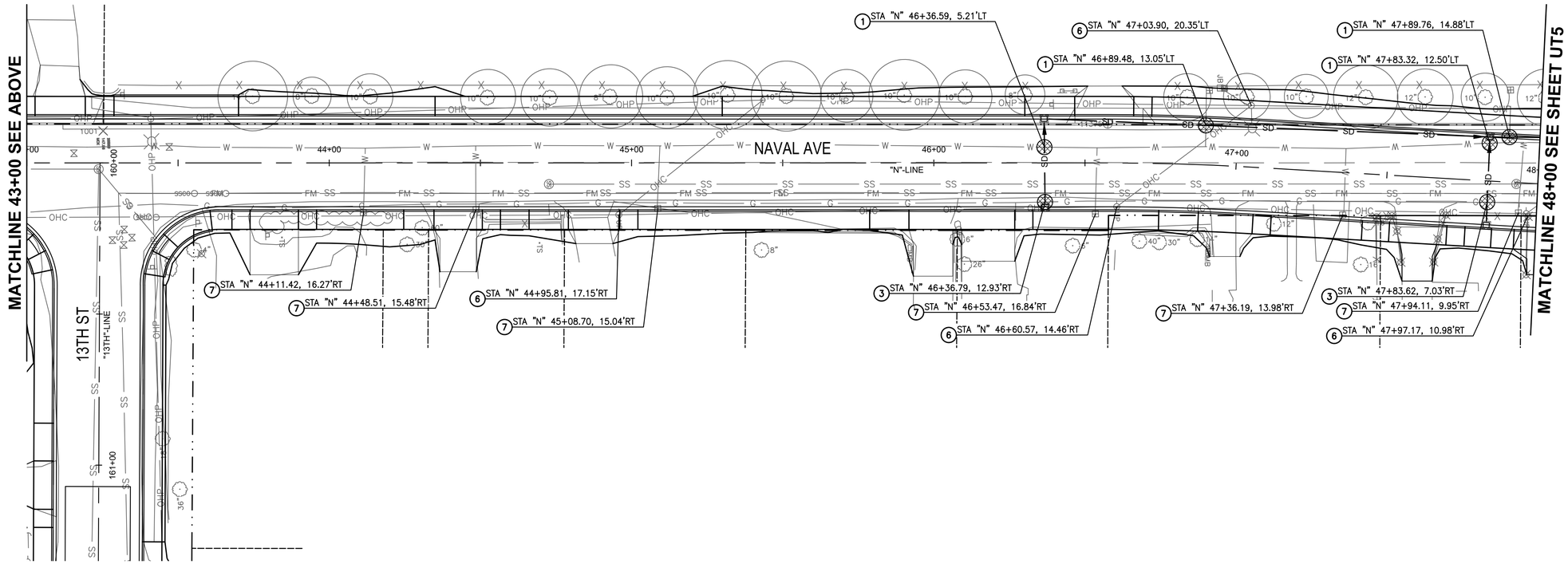
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT UTILITY PLANS STA 28+00 TO STA 38+00

P.N. PROJNUM

UT3 SHEET 170 OF 179





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HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

CAMERON CRAIG FRENCH STATE OF WASHINGTON 21018737 REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *C. FRENCH* DATE ---

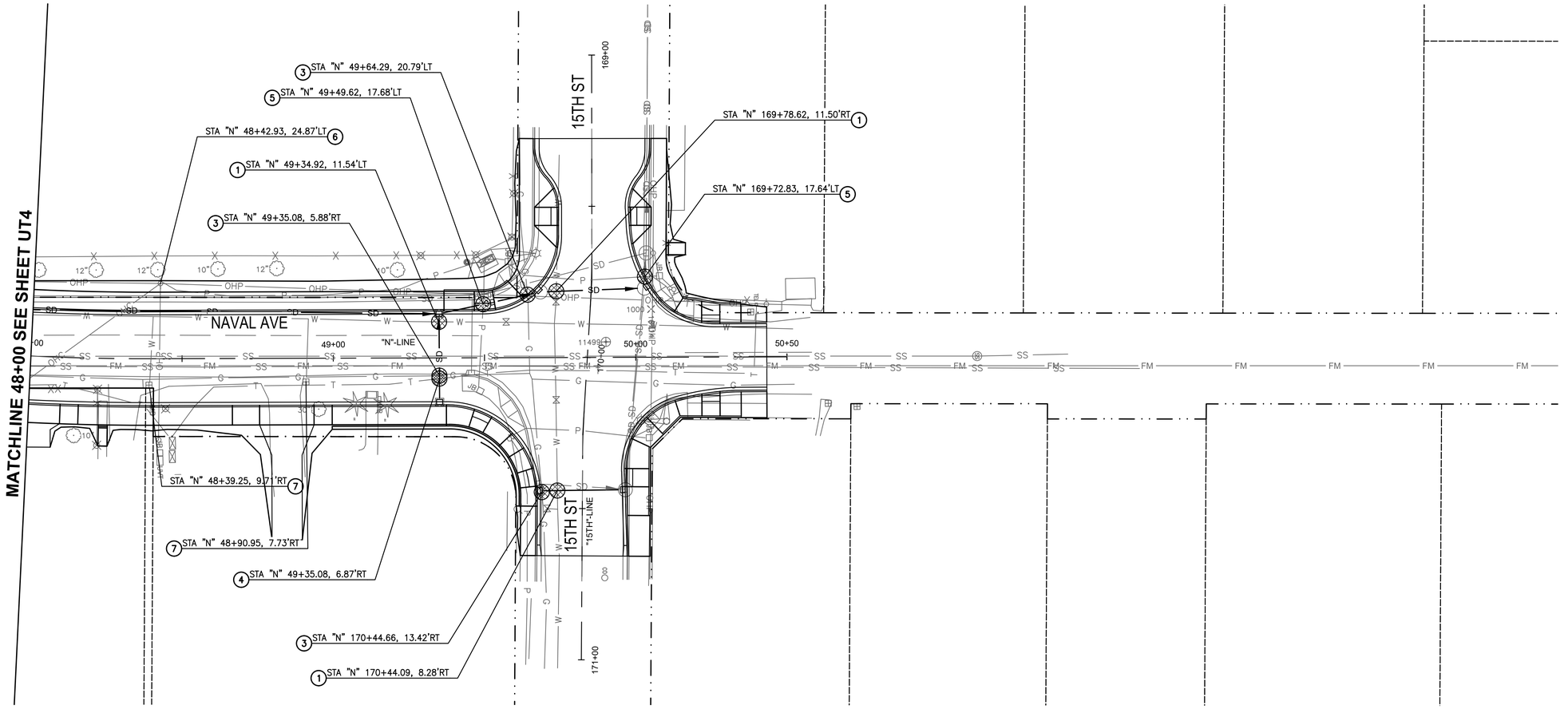
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---

CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT UTILITY PLANS STA 38+00 TO STA 48+00

PN: PROJNUM

UT4 SHEET 171 OF 179



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CAD FILE:

CAMERON CRAIG FRENCH, STATE OF WASHINGTON, 21018737, REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO. _____

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *C. FRENCH* DATE ---
DESIGN BY: *C. FRENCH* WASH. P.E. # --- DATE ---
CHECKED BY: *T. JOHNSON* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT UTILITY PLANS STA 48+00 TO END

PN: PROJNUM

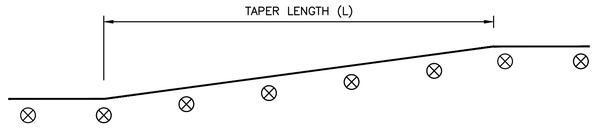
UT5 SHEET 172 OF 179

GENERAL NOTES

1. A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TRUCK MOUNTED ATTENUATOR (TMA) IS AVAILABLE; A WORK VEHICLE MAY BE USED. WHEN NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED TO SHIELD WORKERS, WITH MINIMUM REQUIRED ROLL–AHEAD DISTANCE.
2. TRAFFIC CONTROL SHALL NOT ENCROACH OR INTERFERE WITH ADJACENT OPEN LANES.
3. FOR SIGNS REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WASHINGTON MODIFICATIONS TO THE MUTCD (CHAPTER 468–95 WAC), AND WSDOT SIGN FABRICATION MANUAL M55–05.
4. ALL ADDITIONAL TRAFFIC CONTROL FOR THE PROJECT WHICH INCLUDES, BUT IS NOT LIMITED TO, LANE CLOSURES, FLAGGING OPERATIONS, PARTIAL INTERSECTION CLOSURES, LANE SHIFTS, AND SHOULDER CLOSURES, SHALL BE SUBMITTED TO THE CITY AND THE ENGINEER FOR APPROVAL 14 DAYS IN ADVANCE OF IMPLEMENTATION.
5. CONFLICTING PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS POSSIBLE.
6. CONFLICTING SIGNAGE SHALL BE REMOVED OR COVERED.
7. STEADY BURN WARNING LIGHTS (TYPE C, MUTCD) SHALL BE USED ON CHANNELIZING DEVICES AT NIGHT FOR DELINEATION.
8. CONTRACTORS SHALL MAINTAIN DRIVEWAY ACCESS TO ADJACENT PROPERTIES THROUGH THE DURATION OF THE PROJECT. THE MINIMUM DRIVEWAY WIDTH SHALL BE 10' WHERE TRAFFIC MUST ENTER AND EXIT AT DESIGNATED DRIVEWAYS FOR BUSINESS ACCESS.
9. ACCESS TO PRIVATE DRIVES SHALL BE MAINTAINED AT ALL TIMES. COORDINATE PAVING WITH THE PROPERTY OWNERS AND USE FLAGGERS AS NECESSARY.
10. CONSTRUCT SIDE STREETS AND PRIVATE DRIVES IN HALVES USING FLAGGERS. FLAGGERS AT SIDE STREETS AND PRIVATE DRIVES MAY ONLY BE PRESENT WHILE WORK IS BEING PERFORMED IMMEDIATELY ADJACENT OF THE AREA.
11. TRAFFIC SAFETY DRUMS MAY BE PLACED WITH TIGHTER THAN TYPICAL SPACING AT DRIVEWAY LOCATIONS AND INTERSECTIONS.
12. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PEDESTRIAN TRAFFIC CONTROL.
14. CONTRACTOR SHALL COORDINATE WORK ACTIVITIES AND TRAFFIC CONTROL SETUPS WITH OTHER ADJACENT CONSTRUCTION PROJECTS.
15. NOTIFY KITSAP TRANSIT OF ANY BUS STOP IMPACTS 14 DAYS PRIOR TO TRAFFIC CONTROL SETUP TO COORDINATE CLOSURES OR RELOCATIONS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UNIFORMED POLICE OFFICERS (UPOs) DURING WORK AT THE SIGNALIZED INTERSECTIONS.
17. TRAFFIC CONTROL SETUP AND CONSTRUCTION HOURS ARE RESTRICTED TO THE DURATIONS SPECIFIED WITHIN THE SPECIAL PROVISIONS AND ANY APPLICABLE PERMITS ISSUED BY THE CITY.
18. IF A DAILY SETUP IS USED, ROADWAY SHALL BE REOPENED TO TRAFFIC AFTER WORKING HOURS. USE STEEL PLATES OR RESTORE DISTURBED PAVEMENT PRIOR TO REOPENING ROADWAY.
19. SHEETS STC1 THROUGH STC6 DEPICT GENERAL GUIDANCE AND A STARTING POINT FOR THE CONTRACTOR'S TRAFFIC CONTROL PLANS. ALL TRAFFIC CONTROL FOR THE PROJECT WHICH INCLUDES, BUT IS NOT LIMITED TO, FLAGGING OPERATIONS, LANE CLOSURES, LANE SHIFTS, AND SHOULDER CLOSURES, SHALL BE SUBMITTED TO THE CITY AND THE ENGINEER FOR APPROVAL IN ADVANCE OF IMPLEMENTATION.
20. THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC DURING WORKING AND NON–WORKING HOURS.

TYPICAL TRAFFIC CONTROL DEVICE SPACING

MINIMUM TAPER LENGTH = L (FEET)			
LANE WIDTH (FEET)	POSTED SPEED (MPH)		
	25	30	35
10	105	150	205
11	115	165	225
12	125	180	245



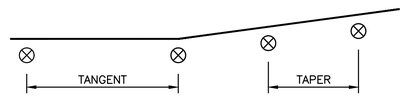
SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35/40 MPH	350'+\–(2)
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'+\–(2)
URBAN STREETS	25 MPH OR LESS	100' +\–(2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.

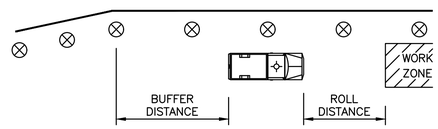
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

LONGITUDINAL BUFFER SPACE (FEET)		
POSTED SPEED (MPH)	25	35
LENGTH (FEET)	155	250

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
35/45	30	60
25/30	20	40



BUFFER DATA	
TYPICAL PROTECTIVE VEHICLE WITH TMA (SEE NOTE 1)	
VEHICLE TYPE	LOADED WEIGHT
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION)
◇1 ROLL–AHEAD STOPPING DISTANCE = 30 FEET MIN. (DRY PAVEMENT ASSUMED)	



TRAFFIC CONTROL STAGING SEQUENCE

STAGE 1

EAST WORK ZONE

1. PREP SITE FOR STAGE 1 WORK. INSTALL TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES.
2. SHIFT LANES OF TRAFFIC TO WEST SIDE OF ROADWAY.
4. INSTALL TESC MEASURES.
5. SAWCUT OR GRIND EXISTING PAVEMENT, AS REQUIRED.
6. EXCAVATE ROADWAY IN WORK ZONE, AS REQUIRED.
7. CONSTRUCT TEMPORARY ACCESS RAMPS TO PRIVATE DRIVES IF REQUIRED. DELINEATE DRIVEWAYS WITH TRAFFIC SAFETY DRUMS.
8. EXCAVATE TRENCH AND INSTALL UTILITIES, INCLUDING STORM DRAIN PIPE AND INLETS.
9. PLACE ROADWAY BASE MATERIAL.
10. CONSTRUCT SIDEWALKS, CURB RETURNS, AND RAMPS.
11. CONSTRUCT SIDE STREETS
    - 11.1. UTILIZE FLAGGERS AND MAINTAIN ONE LANE FOR INGRESS AND EGRESS WHERE CURB BULB–OUTS ARE NOT BEING CONSTRUCTED.
    - 11.2. WHERE CURB BULB–OUTS ARE BEING CONSTRUCTED, PROVIDE ROAD CLOSURE SIGNS AND LOCAL DETOUR SIGNS DIRECTING TRAFFIC TO THE NEXT SIDE STREET.
12. CONSTRUCT DRIVEWAY APPROACHES
13. COMPLETE RESTORATION WORKS WITHIN TEMPORARY CONSTRUCTION EASEMENTS.

STAGE 1A

EAST WORK ZONE
NAVAL GATE ACCESS

1. PREP SITE FOR STAGE 1A WORK. RELOCATE TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES AT THE NAVAL GATE.
2. SHIFT CENTRAL LANE AT THE NAVAL GATE TO EAST SIDE OF ROADWAY.
3. GRIND AWAY EXISTING PAVEMENT.
4. EXCAVATE ROADWAY IN WORK ZONE.
5. PLACE ROADWAY BASE MATERIAL.

STAGE 2

WEST WORK ZONE

1. PREP SITE FOR STAGE 2 WORK. INSTALL TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES.
2. SHIFT LANES OF TRAFFIC TO WEST SIDE OF ROADWAY.
4. INSTALL TESC MEASURES.
5. SAWCUT OR GRIND EXISTING PAVEMENT, AS REQUIRED.
6. EXCAVATE ROADWAY IN WORK ZONE, AS REQUIRED.
7. CONSTRUCT TEMPORARY ACCESS RAMPS TO PRIVATE DRIVES IF REQUIRED. DELINEATE DRIVEWAYS WITH TRAFFIC SAFETY DRUMS.
8. EXCAVATE TRENCH AND INSTALL UTILITIES, INCLUDING STORM DRAIN PIPE AND INLETS.
9. PLACE ROADWAY BASE MATERIAL.
10. CONSTRUCT SIDEWALKS, CURB RETURNS, AND RAMPS.
11. CONSTRUCT SIDE STREETS
    - 11.1. UTILIZE FLAGGERS AND MAINTAIN ONE LANE FOR INGRESS AND EGRESS WHERE CURB BULB–OUTS ARE NOT BEING CONSTRUCTED.
    - 11.2. WHERE CURB BULB–OUTS ARE BEING CONSTRUCTED, PROVIDE ROAD CLOSURE SIGNS AND LOCAL DETOUR SIGNS DIRECTING TRAFFIC TO THE NEXT SIDE STREET.
12. CONSTRUCT DRIVEWAY APPROACHES
13. COMPLETE RESTORATION WORKS WITHIN TEMPORARY CONSTRUCTION EASEMENTS.

STAGE 3

MIDDLE WORK ZONE

1. PREP SITE FOR STAGE 3 WORK. INSTALL TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES.
2. SHIFT LANES OF TRAFFIC TO EAST AND WEST SIDE OF ROADWAY.
4. INSTALL TESC MEASURES.
5. SAWCUT OR GRIND EXISTING PAVEMENT, AS REQUIRED.
6. EXCAVATE ROADWAY IN WORK ZONE, AS REQUIRED.
7. PLACE ROADWAY BASE MATERIAL.

STAGE 4

FINAL PAVING AND STRIPING

1. PLACE WEARING COURSE ASPHALT LAYER ON ENTIRE PROJECT USING SINGLE LANE CLOSURES.
2. INSTALL PERMANENT STRIPING.
3. REMOVE ALL TESC MEASURES AND TRAFFIC CONTROL.

STAGING AND TRAFFIC CONTROL LEGEND

- TYPE 3 BARRICADE
- WORK ZONE / STAGING AREA
- CONSTRUCT UNDER TRAFFIC
- TRAFFIC SAFETY DRUM
- CONSTRUCTION SIGN
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL FLAGGER
- ARROW PANEL

CAD FILE:

ENGINEER STAMP: ROBERT C. ACEVEDO, STATE OF WASHINGTON, 55471, REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

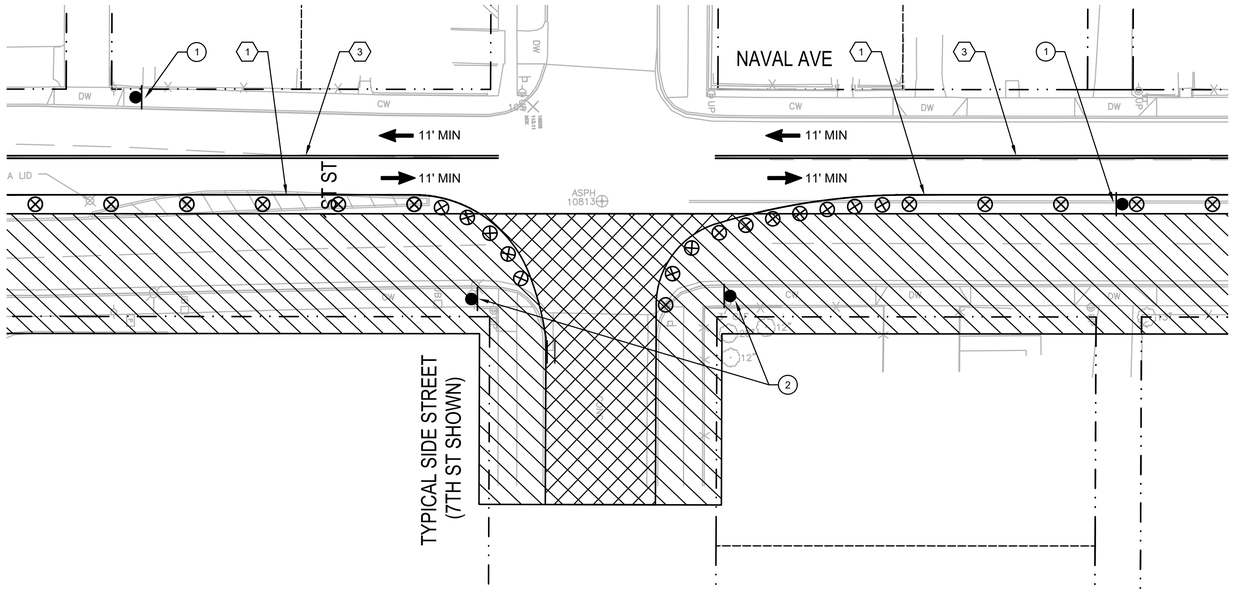
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
STAGING AND TRAFFIC CONTROL SEQUENCING NOTES
SEQUENCING, NOTES AND LEGEND

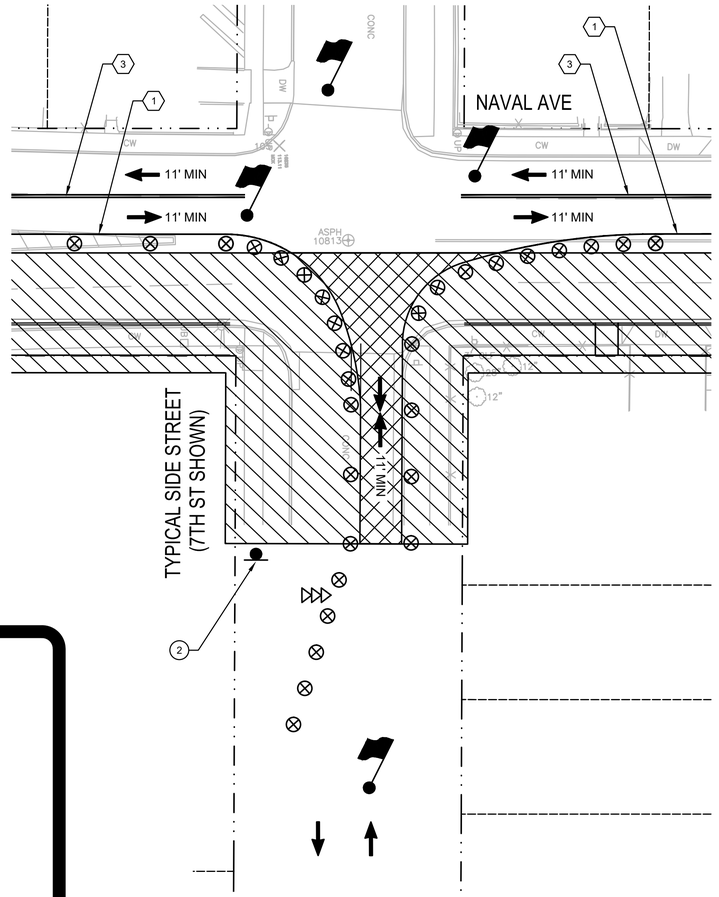
PN. PROJNUM

STN1
SHEET
173
OF
179



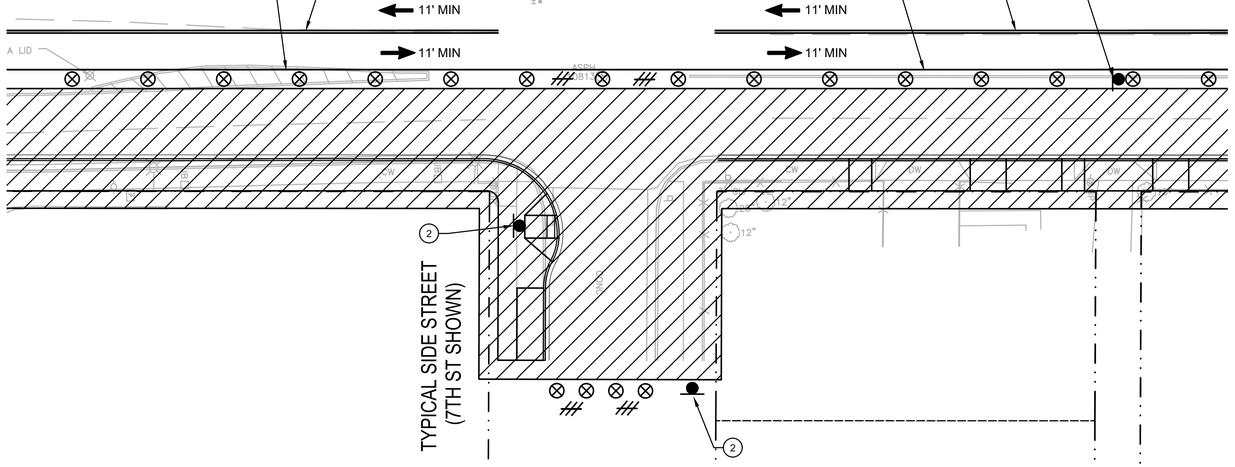
STAGE 1 - PHASE 1 (SOUTH OF 11TH ST)

SIDE STREET ACCESS TO REMAIN OPEN DURING CONSTRUCTION BETWEEN INTERSECTIONS.



STAGE 1 - PHASE 2 (SOUTH OF 11TH ST)

BEGIN SIDE STREET CONSTRUCTION UNDER TRAFFIC AS SHOWN.



STAGE 1 - PHASE 3 (SOUTH OF 11TH ST)

FINALIZE SIDE STREET CONSTRUCTION WITH TEMPORARY FULL STREET CLOSURE. PROVIDE LOCAL VEHICLE AND PEDESTRIAN DETOUR TO NEXT SIDE STREET. EACH SIDE STREET TO BE CONSTRUCTED SEQUENTIALLY WITH ONLY ONE SIDE STREET CLOSED AT A TIME.

CONSTRUCTION NOTES

1. INSTALL TEMPORARY PAINTED WHITE EDGE LINE PER COB STD. PLAN 3265
2. INSTALL TEMPORARY PAINTED YELLOW CENTERLINE LINE PER COB STD. PLAN 3265
3. INSTALL TEMPORARY PAINTED YELLOW DOUBLE CENTERLINE LINE PER COB STD. PLAN 3265
4. INSTALL TEMPORARY PAINTED WHITE STOP BAR PER COB STD. PLAN 3265
5. INSTALL TEMPORARY PAINTED YELLOW DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-04
6. INSTALL TEMPORARY PAINTED YELLOW EDGE LINE PER COB STD. PLAN 3265
7. INSTALL TEMPORARY PAINTED WHITE WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-04
8. INSTALL TEMPORARY PAINTED WHITE CROSSWALK MARKINGS PER COB STD. PLAN 3257.

GENERAL NOTES

1. SEE SHEET STN1 FOR LEGEND, GENERAL NOTES, STAGING SEQUENCE NOTES, BUFFER DATA TABLE, SIGN SPACING TABLE, MINIMUM TAPER LENGTH TABLE AND CHANNELIZATION DEVICE SPACING TABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
3. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION.
4. CONTRACTOR TO PROVIDE TEMPORARY SIGNAL CONFIGURATION TO ACCOMMODATE ADJUSTED TRAFFIC PATTERNS FOR EACH PHASE OF CONSTRUCTION.
5. CONTRACTOR TO SUBMIT DETAILED TEMPORARY SIGNAL PLAN WITH PERMIT APPLICATION.

SIGN SCHEDULE

1. 24" x 24" — W6-3, BLACK ON ORANGE
2. 24" x 12" — SIDEWALK CLOSED — R9-9, BLACK ON WHITE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE — HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

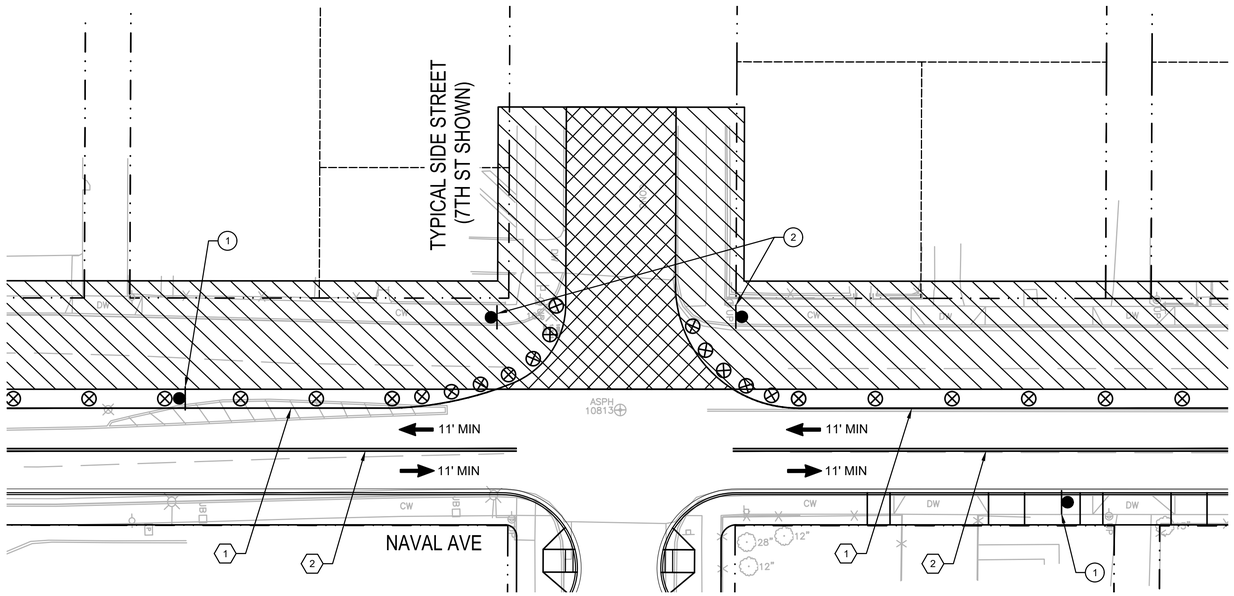
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
STAGING AND TRAFFIC CONTROL
STAGE 1 CONSTRUCTION (SOUTH OF 11TH ST)

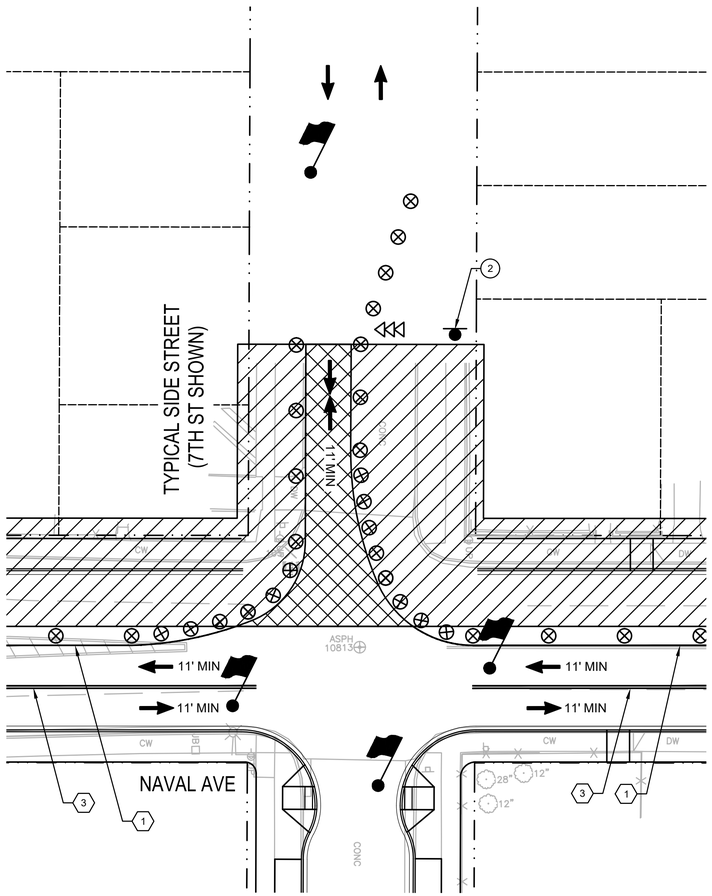
PN: PROJNUM

STC1
SHEET
174
OF
179



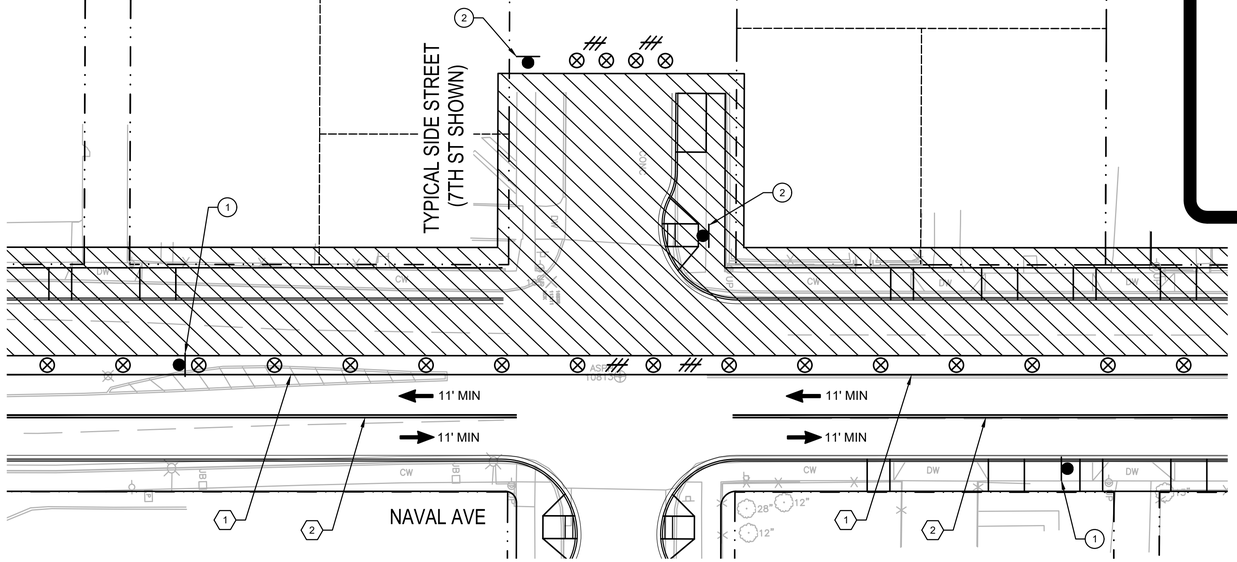
STAGE 2 - PHASE 1 (SOUTH OF 11TH ST)

SIDE STREET ACCESS TO REMAIN OPEN DURING CONSTRUCTION BETWEEN INTERSECTIONS.



STAGE 2 - PHASE 2 (SOUTH OF 11TH ST)

BEGIN SIDE STREET CONSTRUCTION UNDER TRAFFIC AS SHOWN.



STAGE 2 - PHASE 3 (SOUTH OF 11TH ST)

FINALIZE SIDE STREET CONSTRUCTION WITH TEMPORARY FULL STREET CLOSURE. PROVIDE LOCAL VEHICLE AND PEDESTRIAN DETOUR TO NEXT SIDE STREET. EACH SIDE STREET TO BE CONSTRUCTED SEQUENTIALLY WITH ONLY ONE SIDE STREET CLOSED AT A TIME.

CONSTRUCTION NOTES

1. INSTALL TEMPORARY PAINTED WHITE EDGE LINE PER COB STD. PLAN 3265
2. INSTALL TEMPORARY PAINTED YELLOW CENTERLINE LINE PER COB STD. PLAN 3265
3. INSTALL TEMPORARY PAINTED YELLOW DOUBLE CENTERLINE LINE PER COB STD. PLAN 3265
4. INSTALL TEMPORARY PAINTED WHITE STOP BAR PER COB STD. PLAN 3265
5. INSTALL TEMPORARY PAINTED YELLOW DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-04
6. INSTALL TEMPORARY PAINTED YELLOW EDGE LINE PER COB STD. PLAN 3265
7. INSTALL TEMPORARY PAINTED WHITE WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-04
8. INSTALL TEMPORARY PAINTED WHITE CROSSWALK MARKINGS PER COB STD. PLAN 3257.

GENERAL NOTES

1. SEE SHEET STN1 FOR LEGEND, GENERAL NOTES, STAGING SEQUENCE NOTES, BUFFER DATA TABLE, SIGN SPACING TABLE, MINIMUM TAPER LENGTH TABLE AND CHANNELIZATION DEVICE SPACING TABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
3. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION.
4. CONTRACTOR TO PROVIDE TEMPORARY SIGNAL CONFIGURATION TO ACCOMMODATE ADJUSTED TRAFFIC PATTERNS FOR EACH PHASE OF CONSTRUCTION.
5. CONTRACTOR TO SUBMIT DETAILED TEMPORARY SIGNAL PLAN WITH PERMIT APPLICATION.

SIGN SCHEDULE

1. 24" / 24" — W6-3, BLACK ON ORANGE
2. 24" / SIDEWALK CLOSED / 12" — R9-9, BLACK ON WHITE

N

HORZ SCALE: 20' 0' 20' 40' IN FEET

CAD FILE:

ENGINEER STAMP: ROBERT C. ACEVEDO, STATE OF WASHINGTON, 55471, REGISTERED PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE — HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---

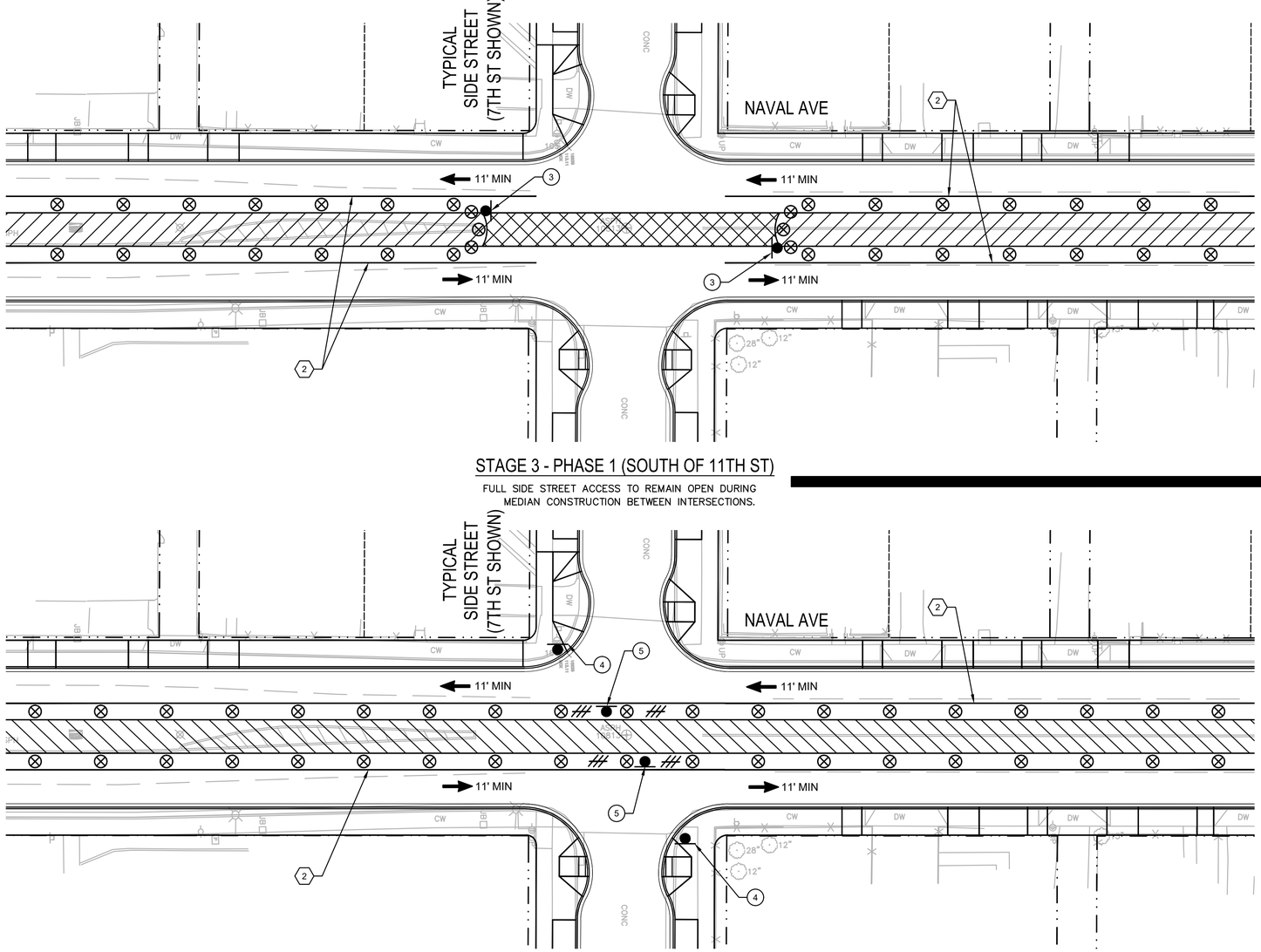
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---

CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT STAGING AND TRAFFIC CONTROL STAGE 2 CONSTRUCTION (SOUTH OF 11TH ST)

PN. PROJNUM

STC2
SHEET
175
OF
179



STAGE 3 - PHASE 1 (SOUTH OF 11TH ST)

FULL SIDE STREET ACCESS TO REMAIN OPEN DURING MEDIAN CONSTRUCTION BETWEEN INTERSECTIONS.

STAGE 3 - PHASE 2 (SOUTH OF 11TH ST)

FINALIZE CENTER LANE CONSTRUCTION WITH TEMPORARY FULL MEDIAN CLOSURE. EACH MEDIAN ACCESS TO BE CONSTRUCTED SEQUENTIALLY WITH ONLY ONE MEDIAN ACCESS CLOSED AT A TIME.

SIGN SCHEDULE

3		R4-7B BLACK ON WHITE
4		R3-5R BLACK ON WHITE
5		R6-1-R BLACK ON WHITE

CONSTRUCTION NOTES

1. INSTALL TEMPORARY PAINTED WHITE EDGE LINE PER COB STD. PLAN 3265
2. INSTALL TEMPORARY PAINTED YELLOW CENTERLINE LINE PER COB STD. PLAN 3265
3. INSTALL TEMPORARY PAINTED YELLOW DOUBLE CENTERLINE LINE PER COB STD. PLAN 3265
4. INSTALL TEMPORARY PAINTED WHITE STOP BAR PER COB STD. PLAN 3265
5. INSTALL TEMPORARY PAINTED YELLOW DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-04
6. INSTALL TEMPORARY PAINTED YELLOW EDGE LINE PER COB STD. PLAN 3265
7. INSTALL TEMPORARY PAINTED WHITE WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-04
8. INSTALL TEMPORARY PAINTED WHITE CROSSWALK MARKINGS PER COB STD. PLAN 3257.

GENERAL NOTES

1. SEE SHEET STN1 FOR LEGEND, GENERAL NOTES, STAGING SEQUENCE NOTES, BUFFER DATA TABLE, SIGN SPACING TABLE, MINIMUM TAPER LENGTH TABLE AND CHANNELIZATION DEVICE SPACING TABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
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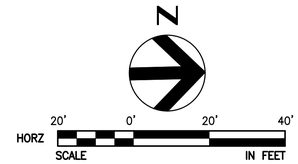
4. CONTRACTOR TO PROVIDE TEMPORARY SIGNAL CONFIGURATION TO ACCOMMODATE ADJUSTED TRAFFIC PATTERNS FOR EACH PHASE OF CONSTRUCTION.
5. CONTRACTOR TO SUBMIT DETAILED TEMPORARY SIGNAL PLAN WITH PERMIT APPLICATION.



CAD FILE:

ENGINEER STAMP

ROBERT C. ACEVEDO
STATE OF WASHINGTON
55471
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

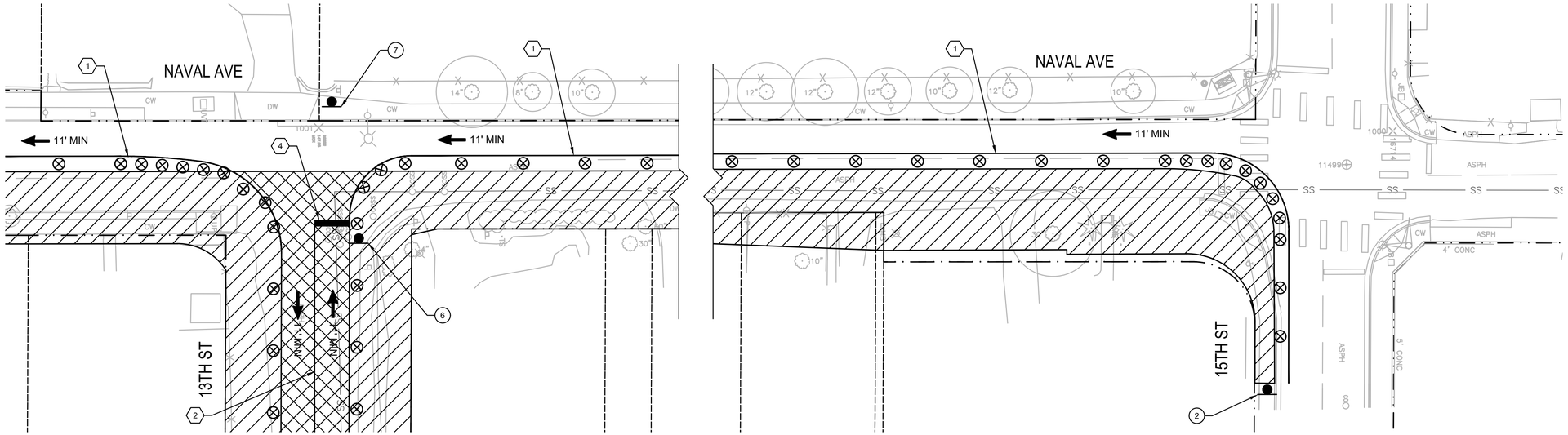
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT STAGING AND TRAFFIC CONTROL STAGE 3 CONSTRUCTION (SOUTH OF 11TH ST)

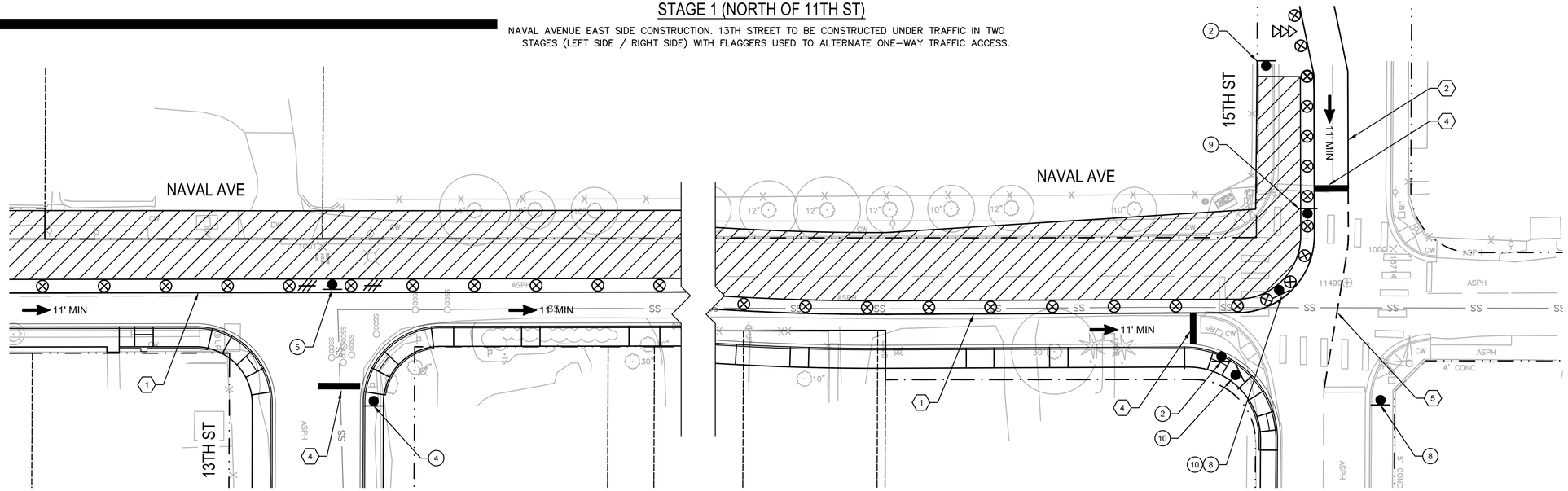
PN: PROJNUM

STC3
SHEET
176
OF
179



STAGE 1 (NORTH OF 11TH ST)

NAVAL AVENUE EAST SIDE CONSTRUCTION. 13TH STREET TO BE CONSTRUCTED UNDER TRAFFIC IN TWO STAGES (LEFT SIDE / RIGHT SIDE) WITH FLAGGERS USED TO ALTERNATE ONE-WAY TRAFFIC ACCESS.



STAGE 2 (NORTH OF 11TH ST)

NAVAL AVENUE WEST SIDE CONSTRUCTION.

CONSTRUCTION NOTES

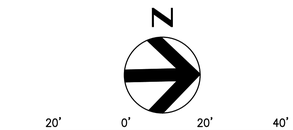
1. INSTALL TEMPORARY PAINTED WHITE EDGE LINE PER COB STD. PLAN 3265
2. INSTALL TEMPORARY PAINTED YELLOW CENTERLINE LINE PER COB STD. PLAN 3265
3. INSTALL TEMPORARY PAINTED YELLOW DOUBLE CENTERLINE LINE PER COB STD. PLAN 3265
4. INSTALL TEMPORARY PAINTED WHITE STOP BAR PER COB STD. PLAN 3265
5. INSTALL TEMPORARY PAINTED YELLOW DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-04
6. INSTALL TEMPORARY PAINTED YELLOW EDGE LINE PER COB STD. PLAN 3265
7. INSTALL TEMPORARY PAINTED WHITE WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-04
8. INSTALL TEMPORARY PAINTED WHITE CROSSWALK MARKINGS PER COB STD. PLAN 3257.

GENERAL NOTES

1. SEE SHEET STN1 FOR LEGEND, GENERAL NOTES, STAGING SEQUENCE NOTES, BUFFER DATA TABLE, SIGN SPACING TABLE, MINIMUM TAPER LENGTH TABLE AND CHANNELIZATION DEVICE SPACING TABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
3. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION.
4. CONTRACTOR TO PROVIDE TEMPORARY SIGNAL CONFIGURATION TO ACCOMMODATE ADJUSTED TRAFFIC PATTERNS FOR EACH PHASE OF CONSTRUCTION.
5. CONTRACTOR TO SUBMIT DETAILED TEMPORARY SIGNAL PLAN WITH PERMIT APPLICATION.

SIGN SCHEDULE

2		R9-9 BLACK ON WHITE
4		R3-5R BLACK ON WHITE
5		R6-1-R BLACK ON WHITE
6		R3-5L BLACK ON WHITE
7		R6-1-L BLACK ON WHITE
8		R3-2L BLACK & RED ON WHITE
9		R3-2R BLACK & RED ON WHITE
10		R5-1 RED ON WHITE



CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

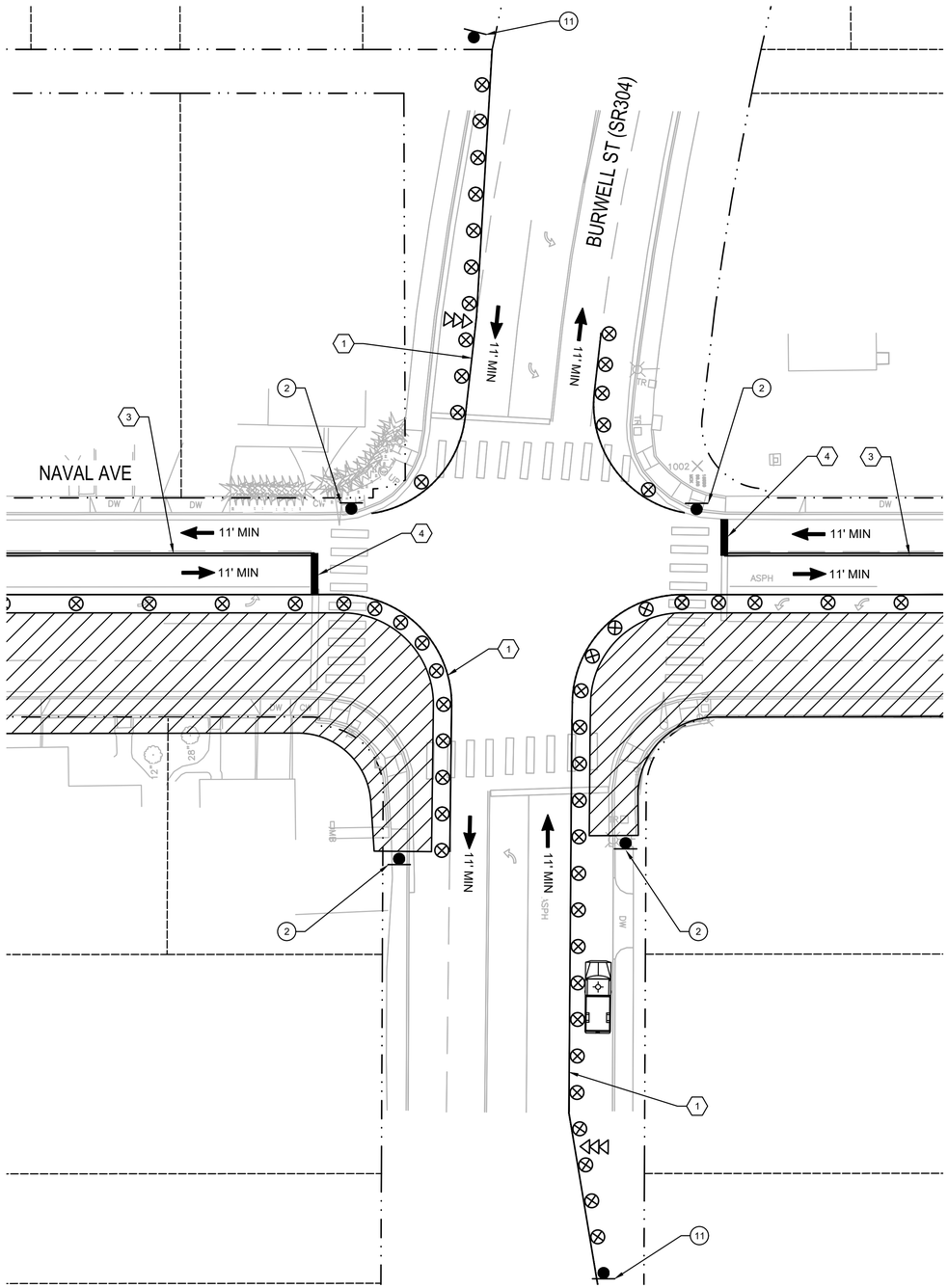
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT STAGING AND TRAFFIC CONTROL STAGE 1 & 2 CONSTRUCTION (NORTH OF 11TH ST)

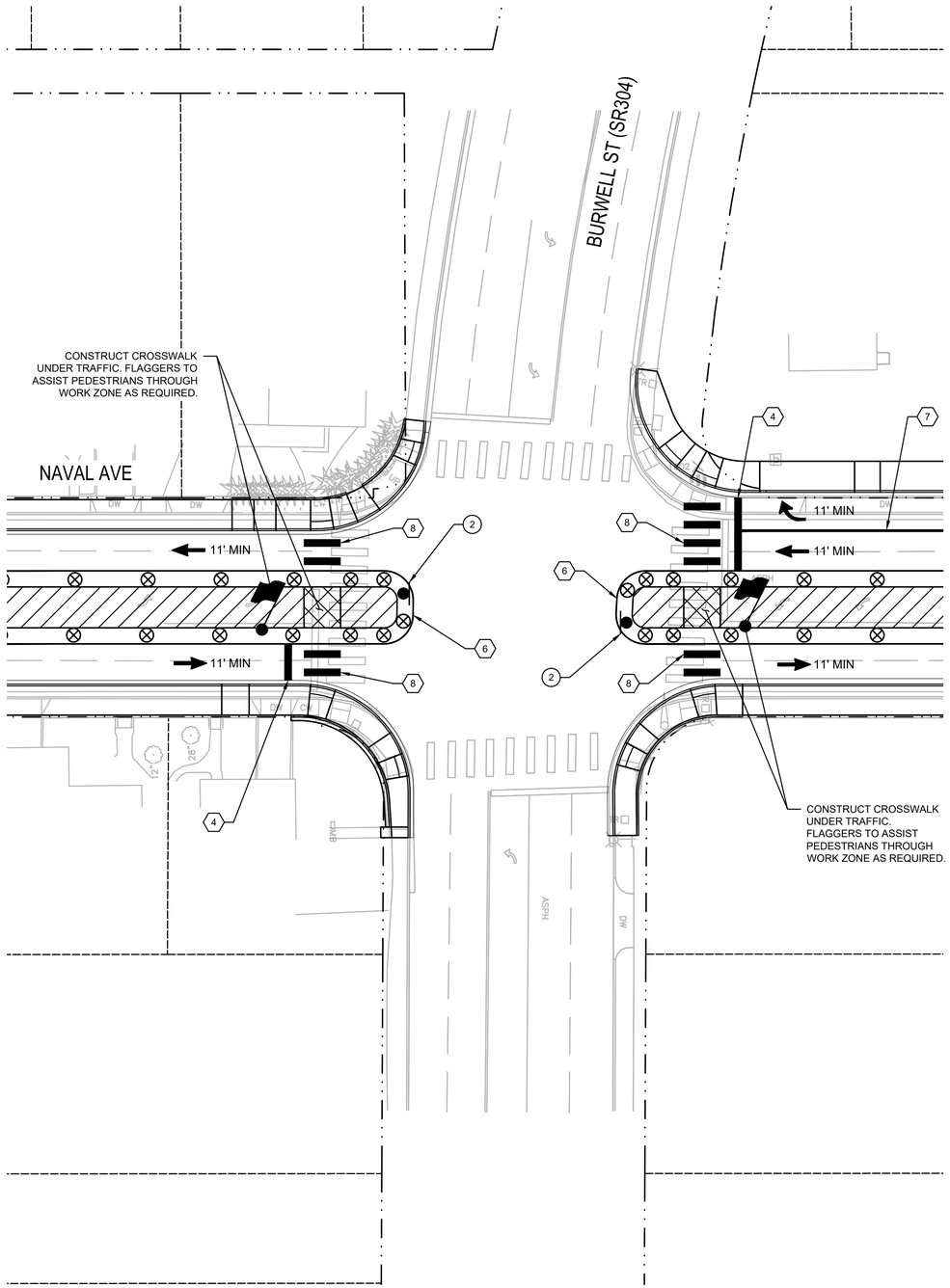
PN: PROJNUM

STC4
SHEET
177
OF
179



TYPICAL SIGNALIZED INTERSECTION STAGING AND TRAFFIC CONTROL PLAN

1. SHOWS STAGE 1 EAST SIDE CONSTRUCTION.
2. TRAFFIC CONTROL TO BE MIRRORED FOR STAGE 2 WEST SIDE CONSTRUCTION.



TYPICAL SIGNALIZED INTERSECTION STAGING AND TRAFFIC CONTROL PLAN

1. SHOWS STAGE 3 CENTER MEDIAN CONSTRUCTION.

CONSTRUCTION NOTES

1. INSTALL TEMPORARY PAINTED WHITE EDGE LINE PER COB STD. PLAN 3265
2. INSTALL TEMPORARY PAINTED YELLOW CENTERLINE LINE PER COB STD. PLAN 3265
3. INSTALL TEMPORARY PAINTED YELLOW DOUBLE CENTERLINE LINE PER COB STD. PLAN 3265
4. INSTALL TEMPORARY PAINTED WHITE STOP BAR PER COB STD. PLAN 3265
5. INSTALL TEMPORARY PAINTED YELLOW DOTTED EXTENSION LINE PER WSDOT STD. PLAN M–20.10–04
6. INSTALL TEMPORARY PAINTED YELLOW EDGE LINE PER COB STD. PLAN 3265
7. INSTALL TEMPORARY PAINTED WHITE WIDE LANE LINE PER WSDOT STD. PLAN M–20.10–04
8. INSTALL TEMPORARY PAINTED WHITE CROSSWALK MARKINGS PER COB STD. PLAN 3257.

GENERAL NOTES

1. SEE SHEET STN1 FOR LEGEND, GENERAL NOTES, STAGING SEQUENCE NOTES, BUFFER DATA TABLE, SIGN SPACING TABLE, MINIMUM TAPER LENGTH TABLE AND CHANNELIZATION DEVICE SPACING TABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
3. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION.
4. CONTRACTOR TO PROVIDE TEMPORARY SIGNAL CONFIGURATION TO ACCOMMODATE ADJUSTED TRAFFIC PATTERNS FOR EACH PHASE OF CONSTRUCTION.
5. CONTRACTOR TO SUBMIT DETAILED TEMPORARY SIGNAL PLAN WITH PERMIT APPLICATION.

SIGN SCHEDULE

(2) 24" × 12" — SIDEWALK CLOSED
R9-9
BLACK ON WHITE

(11) 36" × 36"
W4-2R
BLACK ON ORANGE

(3) 24" × 30" — KEEP RIGHT
R4-7B
BLACK ON WHITE

N

HORZ SCALE 20' 0' 20' 40' IN FEET

CAD FILE:

ROBERT C. ACEVEDO — STATE OF WASHINGTON — 55471 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER STAMP

REVISIONS NO.	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE — HORIZ. *SHOWN* VERT. *N/A*

FIELD BOOK

DRAWING NO.

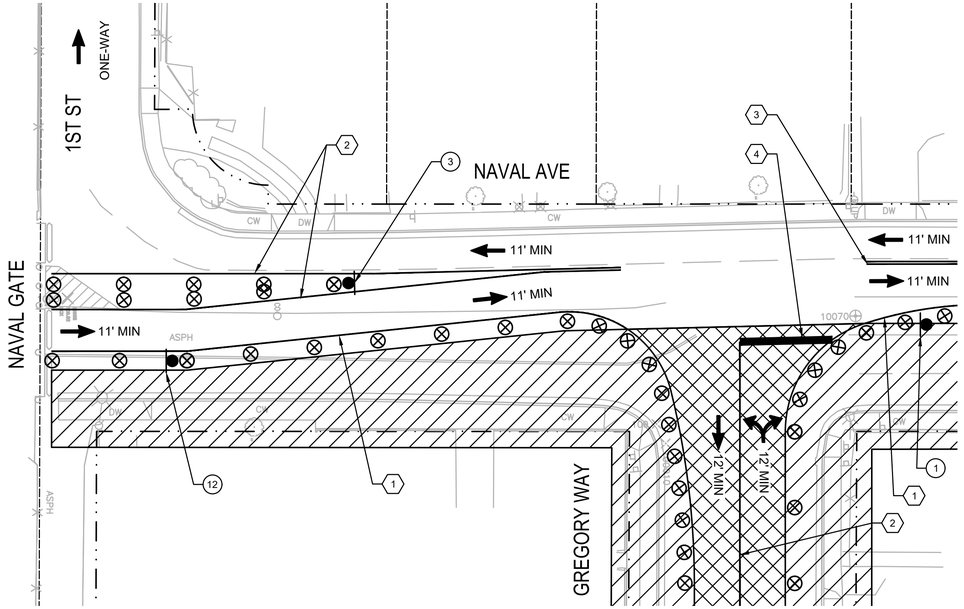
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: *T. NAPIORKOWSKI* DATE ---
DESIGN BY: *T. NAPIORKOWSKI* WASH. P.E. # --- DATE ---
CHECKED BY: *J. HARPER* WASH. P.E. # --- DATE ---

NAVAL AVENUE: 1ST STREET TO 15TH STREET
PEDESTRIAN & BICYCLE ENHANCEMENT
STAGING AND TRAFFIC CONTROL
TYPICAL SIGNALIZED INTERSECTION CONSTRUCTION

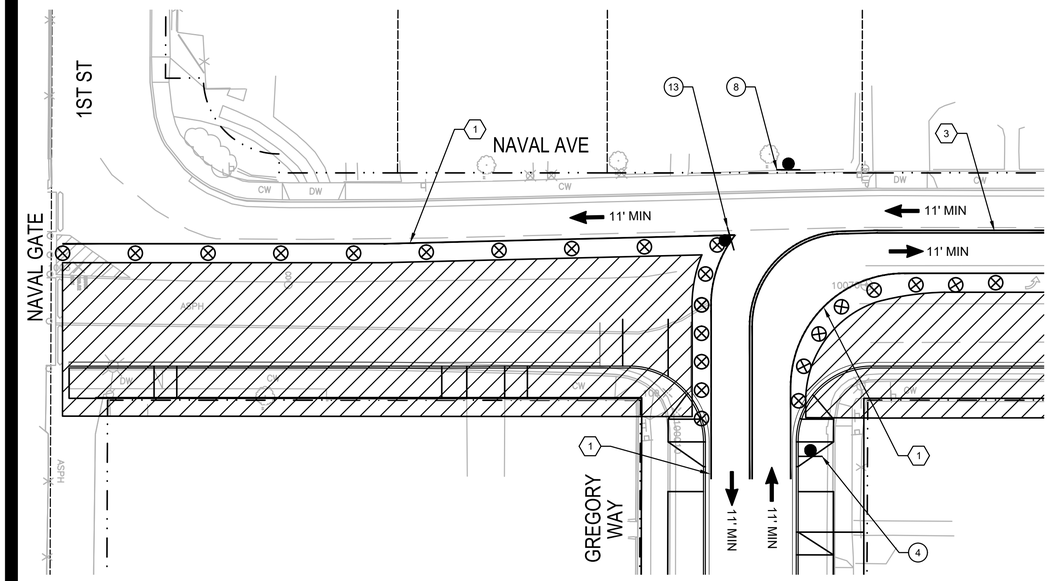
PN: PROJNUM

STC5
SHEET
178
OF
179



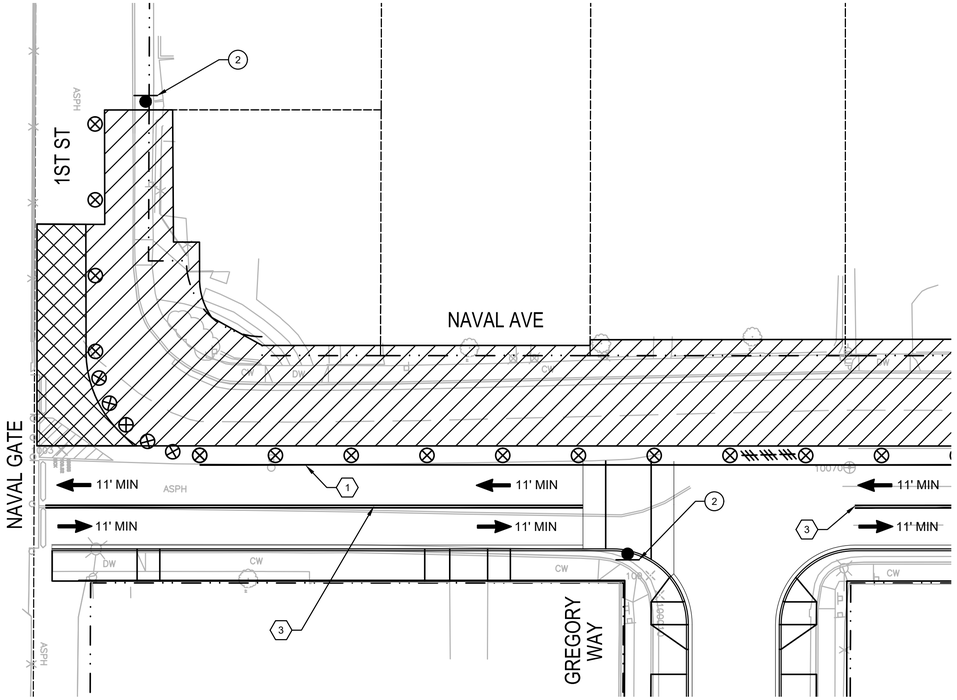
STAGE 1

1. ACCESS CLOSED TO NAVAL GATE EAST.
2. MAINTAIN ACCESS TO NAVAL GATE WEST (ENTRY) AND NAVAL GATE CENTRAL (EXIT).
3. GREGORY WAY TO BE CONSTRUCTED AND MANAGED DURING STAGE 1A AND 1B PER TYPICAL EASTERN SIDE STREET CONSTRUCTION AS SHOWN ON SHEET STC1.



STAGE 1A

1. ACCESS CLOSED TO NAVAL GATE EAST AND NAVAL GATE CENTRAL.
2. MAINTAIN ACCESS TO NAVAL GATE WEST (ENTRY).
3. ALL VEHICLES EXITING THE NAVAL BASE TO BE RE-DIRECTED TO THE FARRAGUT STREET GATE VIA. INTERNAL DETOUR. THE EAST GATE (EXIT) MAY BE RE-OPENED ONCE STAGE 2 CONSTRUCTION BETWEEN THE NAVAL GATE AND GREGORY WAY IS COMPLETE.



STAGE 2

1. ACCESS CLOSED TO NAVAL GATE WEST.
2. MAINTAIN ACCESS TO NAVAL GATE CENTRAL (EXIT) AND NAVAL GATE EAST (EXIT).
3. 1ST STREET TO BE CONSTRUCTED AND MANAGED DURING STAGE 3A AND 3B PER TYPICAL EASTERN SIDE STREET CONSTRUCTION AS SHOWN ON SHEET STC3.

CONSTRUCTION NOTES

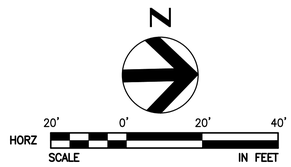
1. INSTALL TEMPORARY PAINTED WHITE EDGE LINE PER COB STD. PLAN 3265
2. INSTALL TEMPORARY PAINTED YELLOW CENTERLINE LINE PER COB STD. PLAN 3265
3. INSTALL TEMPORARY PAINTED YELLOW DOUBLE CENTERLINE LINE PER COB STD. PLAN 3265
4. INSTALL TEMPORARY PAINTED WHITE STOP BAR PER COB STD. PLAN 3265
5. INSTALL TEMPORARY PAINTED YELLOW DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-04
6. INSTALL TEMPORARY PAINTED YELLOW EDGE LINE PER COB STD. PLAN 3265
7. INSTALL TEMPORARY PAINTED WHITE WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-04
8. INSTALL TEMPORARY PAINTED WHITE CROSSWALK MARKINGS PER COB STD. PLAN 3257.

GENERAL NOTES

1. SEE SHEET STN1 FOR LEGEND, GENERAL NOTES, STAGING SEQUENCE NOTES, BUFFER DATA TABLE, SIGN SPACING TABLE, MINIMUM TAPER LENGTH TABLE AND CHANNELIZATION DEVICE SPACING TABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL MAINTAIN 11 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
3. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION.
4. CONTRACTOR TO PROVIDE TEMPORARY SIGNAL CONFIGURATION TO ACCOMMODATE ADJUSTED TRAFFIC PATTERNS FOR EACH PHASE OF CONSTRUCTION.
5. CONTRACTOR TO SUBMIT DETAILED TEMPORARY SIGNAL PLAN WITH PERMIT APPLICATION.

SIGN SCHEDULE

1		W6-3 BLACK ON ORANGE
2		R9-9 BLACK ON WHITE
3		R4-7B BLACK ON WHITE
4		R3-5R BLACK ON WHITE
8		R3-2L BLACK & RED ON WHITE
12		W1-4L BLACK ON ORANGE
13		W12-1 BLACK ON ORANGE



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ENGINEER STAMP

ROBERT C. ACEVEDO
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NAVAL AVENUE: 1ST STREET TO 15TH STREET PEDESTRIAN & BICYCLE ENHANCEMENT STAGING AND TRAFFIC CONTROL NAVAL GATE CONSTRUCTION STAGING

PN: PROJNUM

STC6
SHEET
179
OF
179