

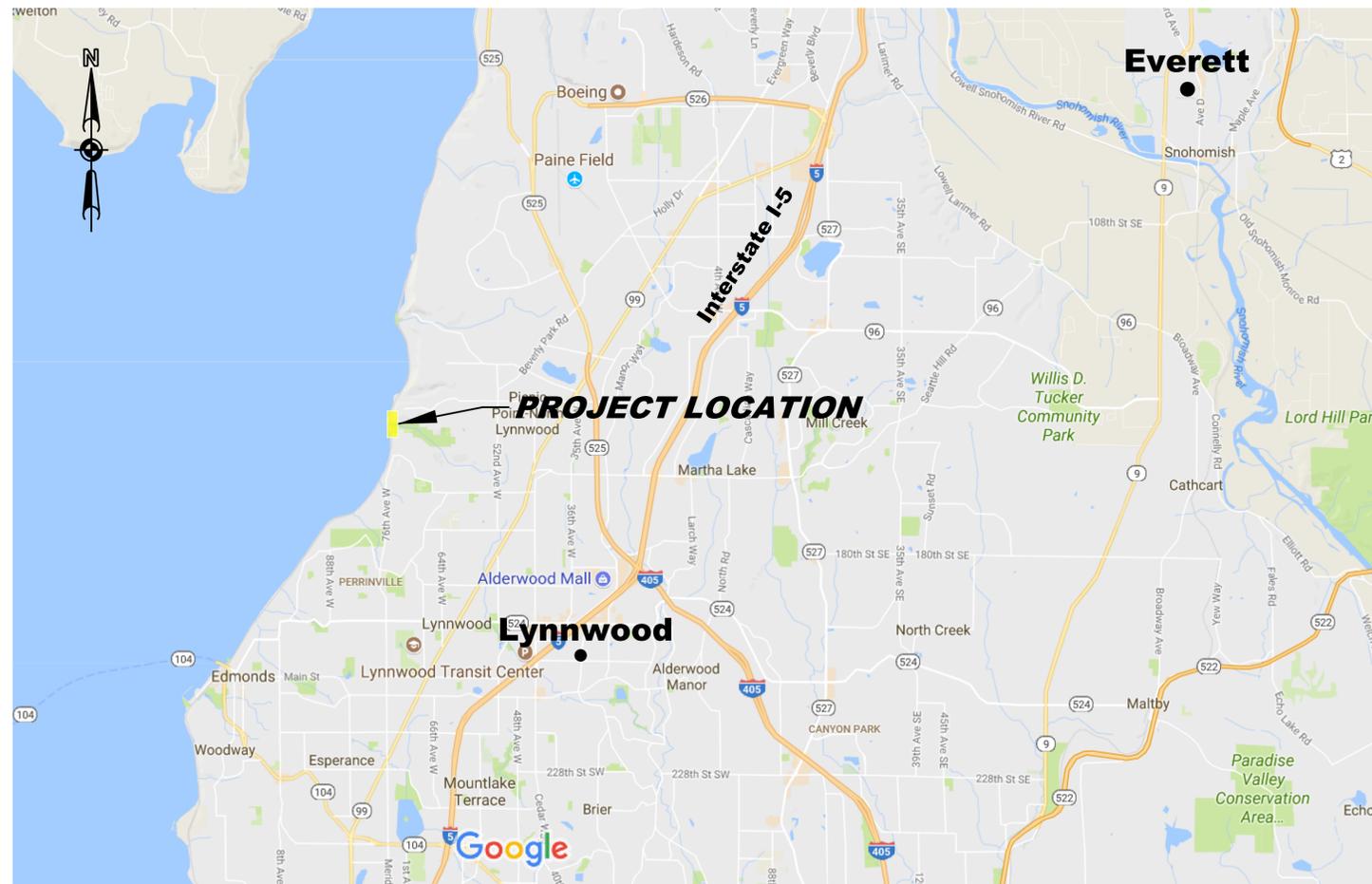


# BNSF NORTHWEST DIVISION MEADOWDALE BEACH PARK RAILROAD BRIDGE



**SCENIC SUBDIVISION  
LINE SEGMENT 50  
MP 21.7 TO MP 21.9  
TRACK & CIVIL**

**60% SUBMITTAL**



**VICINITY MAP**  
NOT TO SCALE



**DATE: June 11, 2018**



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**PRELIMINARY  
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DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER
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CK-04	ABBREVIATIONS & SYMBOLS	04
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DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER

DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER

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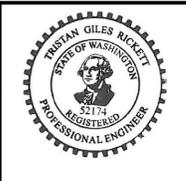
REV	DATE	DESCRIPTION	BY	SUB	APP

DESIGNED BY *TGR*  
 DRAWN BY *TGR*  
 CHECKED BY *MCQ*  
 APPROVED BY *MAF*  
 DATE *6/11/2018*



Snohomish County  
Parks and Recreation



**BNSF RAILWAY & SNOHOMISH COUNTY**  
**BNSF SCENIC SUBDIVISION**  
**MEADOWDALE BEACH PARK RAILROAD BRIDGE**  
**INDEX OF DRAWINGS**

CONTRACT NO. 14L006802	
DRAWING NO. CK-02	
REVISION	SHEET NO. 2 OF 14
SCALE NONE	

# GENERAL NOTES

## UTILITY LOCATES

THE LOCATIONS OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES.

THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE.

BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF THE UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH THE BURIED AND ABOVE GROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

(REFERENCE 2015 BNSF STANDARD CONSTRUCTION SPECIFICATION, PARTS 1300(1.21), 1300(1.22)(B), 1600(1.6)(G), 1600(1.10)(A)(4)(C), 1700(1.1)(C)(46 & 47), AND THE 2011 BNSF UTILITY ACCOMMODATION POLICY).

## BNSF SIGNAL AND TELECOM LOCATES

CALL 1-800-533-2891 TO ARRANGE FOR A BNSF UNDERGROUND CABLE LOCATE. BNSF FORM 'UNDERGROUND CABLE LOCATION AND ACKNOWLEDGEMENT' WILL BE COMPLETED BY A BNSF REPRESENTATIVE AND A COPY PROVIDED TO THE CONTRACTOR. THE CONTRACTOR MUST HAVE THIS FORM IN POSSESSION AT THE JOB SITE AT ALL TIMES. (REFERENCE 2015 BNSF STANDARD CONSTRUCTION SPECIFICATION, PARTS 1300(1.21), 1300(1.22)(B), 1600(1.6)(G), 1600(1.10)(A)(4)(C), 1700(1.1)(C)(46 & 47), AND THE 2011 BNSF UTILITY ACCOMMODATION POLICY).

## SURVEY

- AERIAL IMAGES DATING MAY 2017 WERE OBTAINED FROM GOOGLE EARTH PRO.
- GROUND CONTROL AND TOP OF RAIL SURVEY ON MAINLINE TRACKS WITHIN THE PROJECT LIMITS WAS PERFORMED BY DUANE HARTMAN & ASSOCIATES, INC., WOODINVILLE, WA. (APRIL 2017).

## RIGHT-OF-WAY

BNSF RIGHT-OF-WAY AND PARCEL BOUNDARY INFORMATION REPRESENTED ON THESE DRAWINGS IS BASED ON STATION AND RIGHT-OF-WAY MAPS PROVIDED BY BNSF. PARK BOUNDARY LINES WERE OBTAINED FROM THE SURVEYOR. ALL BOUNDARY LINES ARE APPROXIMATE UNLESS SPECIFICALLY NOTED OTHERWISE.

## NEAT LINE QUANTITIES USED

EMBANKMENT QUANTITIES SHOWN ON THE PLANS ARE MEASURED TO THE NEAT LINES AS COMPACTED QUANTITIES, NO ADJUSTMENTS TO GRADING QUANTITIES HAVE BEEN MADE FOR COMPACTION, SHRINKAGE, SWELLING, OR CLEARING AND GRUBBING, REFER TO THE 2015 BNSF STANDARD CONSTRUCTION SPECIFICATION, PART 3200(4.3)(A).

## BASIS OF TRACK STATIONING

TRACK STATIONING IS MEASURED NORTH TO SOUTH FROM STA. 1256+42.00 AT THE CENTERLINE OF BOX CULVERT 21.8, AS SHOWN ON BNSF ROLLED PROFILE MAP NO. P62462.

## MILEPOST STATIONING (SHORT MILES)

FOR PURPOSES OF ESTABLISHING MILEPOST LOCATIONS, THE FOLLOWING WAS USED:

FROM MP	TO MP	DESCRIPTION	LENGTH OF MILE (FT)	LENGTH OF % OF MILE (FT)
20	21	LONG MILE	5483	548.3
21	22	LONG MILE	5326	532.6

## HORIZONTAL DATUM:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(91), US FEET UTILIZING RTK GPS FIELD PROCEDURES CONTOUR INTERVAL: (1') ONE FOOT CONTOURS

## VERTICAL DATUM:

NAVD88, US FEET. TO CONVERT ELEVATIONS SHOWN HEREON TO MEAN LOWER LOW WATER DATUM PLEASE ADD 2.05 FEET.

## UTILITIES MAPPING:

ALL EXISTING UTILITIES SHOWN HEREIN ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED BY RECORD LOCATION OR FIELD TIED AS A RESULT OF A UTILITY PAINT-OUT DURING THE COURSE OF THE FIELD SURVEY. DUANE HARTMAN & ASSOCIATES, INC. (DHA) ASSUMES NO LIABILITY FOR THE ACCURACY OF THE RECORD INFORMATION. FOR THE FINAL LOCATION OF THE EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION, CONTACT THE UTILITY OWNER/AGENCY AND UTILITIES UNDERGROUND CENTER (800/424-5555).

## TOPOGRAPHIC MAPPING:

THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (DHA) COMPLETED ON OCTOBER 2016. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE, FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425) 483-5355 FOR SITE UPDATES AND VERIFICATIONS.

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PRELIMINARY

NOT FOR CONSTRUCTION

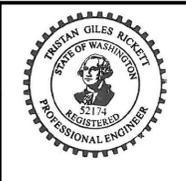
60% SUBMITTAL

REV	DATE	DESCRIPTION	BY	SUB	APP

DESIGNED BY	TGR
DRAWN BY	TGR
CHECKED BY	MGQ
APPROVED BY	MAF
DATE	6/11/2018





**BNSF RAILWAY & SNOHOMISH COUNTY**  
**BNSF SCENIC SUBDIVISION**  
**MEADOWDALE BEACH PARK RAILROAD BRIDGE**  
**GENERAL NOTES**

CONTRACT NO.		14L006802
DRAWING NO.		CK-03
REVISION	SHEET NO.	
	3 OF 14	
SCALE	NONE	

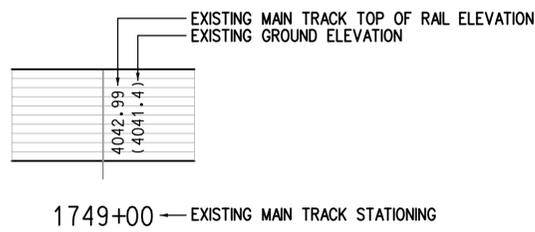
# ABBREVIATIONS

&	AND	MAX	MAXIMUM
@	AT	MH	MANHOLE
°	DEGREE(S)	MIN	MINIMUM
'	FOOT or FEET or MINUTE(S)	MP	MILEPOST or MEDIUM PRESSURE
"	INCH or INCHES or SECOND(S)	MSST	MAIN STREET SPUR TRACK
%	PERCENT	MT	MAIN TRACK
#	POUND or NUMBER	MTD	MULTIPLE TILE DUCT
△	CENTRAL ANGLE OF CIRCULAR CURVE	N	NORTH or NORTHERLY or NORTHING
2500	TRACK 2500	NMT1	NEW MAIN TRACK 1
AC	ASPHALT CONCRETE	NMT2	NEW MAIN TRACK 2
AP	ANGLE POINT	NMT3	NEW MAIN TRACK 3
APE	AREA OF POTENTIAL EFFECT	NO	NUMBER or NORTHERN
APPROX	APPROXIMATELY	NTS	NOT TO SCALE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NW	NORTHWEST
AVE	AVENUE	OD	OUTSIDE DIAMETER
BC	BEGINNING OF CURVE	OH	OVERHEAD
BLVD	BOULEVARD	OP	OVERPASS
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY	OPP	OPPOSITE
BM	BENCHMARK	OTM	OTHER TRACK MATERIAL
BR	BRIDGE	O.T.O.	OUT TO OUT
CB	CATCH BASIN	P or PSGR	PASSENGER
CC	CENTER OF CURVE	PB	PULLBOX
CIP	CAST IRON PIPE OR CAST IN PLACE	PC	POINT OF CURVE
C/L OR CL	CENTERLINE	PCC	POINT OF COMPOUND CURVATURE or PORTLAND CEMENT CONCRETE
CLR	CLEAR	PI	POINT OF INTERSECTION
CONC	CONCRETE	PIP	PROTECT IN PLACE
CMP	CORRUGATED METAL PIPE	PITO	POINT OF INTERSECTION OF TURNOUT
CP	CONTROL POINT	POB	POINT OF BEGINNING
CORR	CORRUGATED	POE	POINT OF ENDING
CS	CURVE TO SPIRAL	POT	POINT ON TANGENT
CT	CONCRETE TIES	PRC	POINT OF REVERSE CURVATURE
CTLVR	CANTILEVER	(P), PROP	PROPOSED
DC	DEGREE OF CURVE	PS	POINT OF SWITCH
DESC	DESCRIPTION	PT	POINT OF TANGENT
DI	DUCTILE IRON	PVC	POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE (PIPE)
DIP	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DMS	DEGREES MINUTES SECONDS	PVT	POINT OF VERTICAL TANGENT
DOT	DEPARTMENT OF TRANSPORTATION	R	RADIUS or RATE OF CHANGE
DR	DRIVE	RCB	REINFORCED CONCRETE BOX
DU	DUCT	ROW or R/W	RIGHT-OF-WAY
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE
Ea	SUPERELEVATION, ACTUAL	RD	ROAD
E	EAST or EASTERLY or EASTING	RH	RIGHT HAND
EC	END OF CURVE	RPM	RAISED PAVEMENT MARKER
EF	EACH FACE	RR	RAILROAD
EGL	ENERGY GRADE LINE	RT	RIGHT
EL or ELEV	ELEVATION	S	SOUTH or SOUTHERLY or SLOPE
EQ	EQUAL or EQUATION	SC	SPIRAL TO CURVE
EQAHD	EQUATION AHEAD	SDMH	STORM DRAIN MANHOLE
EQNBK	EQUATION BACK	SDNG	SIDING TRACK
EW	EACH WAY	SF	SQUARE FOOT or SQUARE FEET
Eu	SUPERELEVATION, UNBALANCED	SO	SOUTHERN
(E), EX	EXISTING	SMH or SSMH	SANITARY SEWER MANHOLE
EXMT OR EMT	EXISTING MAIN TRACK	STA	STATION
EMT1	EXISTING MAIN TRACK 1	STD	STANDARD
EMT2	EXISTING MAIN TRACK 2	ST	STREET or SPIRAL TO TANGENT
F	FREIGHT	SUB	SUBDIVISION
FH	FIRE HYDRANT	SW	SOUTHWEST
FL	FLOWLINE	T	TANGENT or TALGO
FS	FINISHED SURFACE	TC	TRACK CENTER(S) or TOP OF CURB
FT	FOOT or FEET	TG	TOP OF GRATE
G	GRADE	TGC	THE GAS COMPANY
G1	GRADE ENTERING VERTICAL CURVE	TOR	TURNOUT
G2	GRADE EXITING VERTICAL CURVE	T/O or TO	TOP OF RAIL
ga	GAGE	T/R or TOR	TRACK FOOT or TRACK FEET
GB	GRADE BREAK	TRK	TRACK
GM	GAS MATER	TS	TANGENT TO SPIRAL
GRD	GROUND	TT	TIMBER TRANSITION TIES
GV	GAS VALVE	TYP	TYPICAL
HGL	HYDRAULIC GRADE LINE	UD	UNDERDRAIN
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HIGH POINT or HIGH PRESSURE	UP	UNDERPASS
HWY	HIGHWAY	UPRR	UNION PACIFIC RAILROAD
I	TOTAL INTERSECTION ANGLE	V	VELOCITY
INV	INVERT	VAR	VARIES
IE	INVERT ELEVATION	VCP	VITRIFIED CLAY PIPE
L	LENGTH	VERT	VERTICAL
Lc	LENGTH OF CURVE (CIRCULAR)	W	WEST or WESTERLY
LF	LINEAR FOOT or LINEAR FEET	WM	WATER METER
LH	LEFT HAND	WUTC	WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION
LP	LOW POINT	WV	WATER VALVE
Ls or LS	LENGTH OF SPIRAL	XING	CROSSING
LT	LEFT	XO	CROSSOVER
MAIN	MAIN TRACK		
MAX	MAXIMUM		

# SYMBOLS

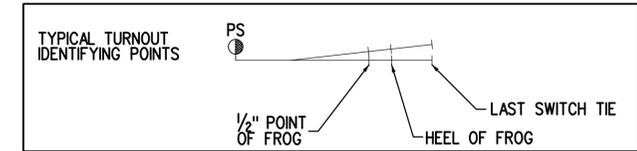
	EXISTING	PROPOSED	EXISTING	PROPOSED
HISTORICAL MILEPOST				
RIGHT-OF-WAY				
LEASE / EASEMENT				
GRADING LIMIT FILL				
GRADING LIMIT CUT				
FUTURE PEDESTRIAN ACCESS TRAIL				
TOP OF ACCESS ROAD				
POINT OF VERTICAL INTERSECTION				
STATION EQUATION SYMBOL				
TRACK				
TRACK TO BE REMOVED				
TRACK TO BE UPGRADED				
TRACK TO RELOCATED FROM				
TRACK TO RELOCATE TO				
WETLAND DELINEATION FLAG				
WETLANDS				
POINT OF SWITCH (MANUAL)				
POINT OF SWITCH (POWER)				
CROSSOVER MANUAL				
CROSSOVER POWER				
TURNOUT MANUAL				
TURNOUT POWER				

# PROFILE DATA



# UTILITIES

C&S	COMMUNICATION & SIGNALING	
E	ELECTRIC	
TV	CABLE TELEVISION	
SAN	SANITARY SEWER	
W	WATER	
G	GAS	
T	TELEPHONE	
FO	FIBER OPTIC	
C	CASING	
SD	STORM DRAIN	
OHE	OVERHEAD ELECTRIC	
OHFO	OVERHEAD FIBER OPTIC	



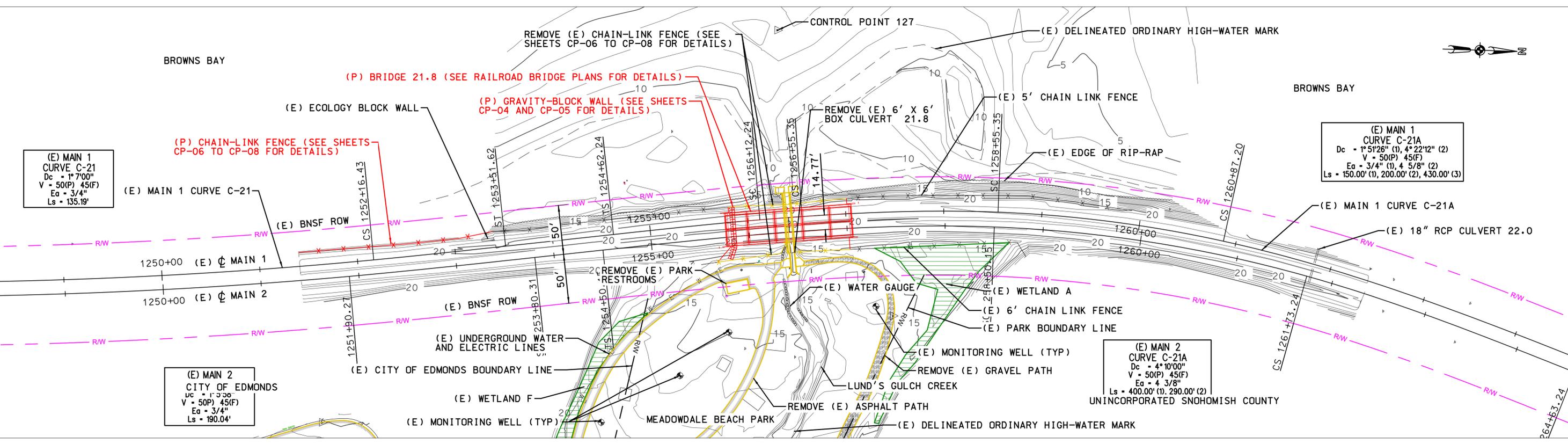
<b>CURVE C-20</b>	CURVE NUMBER
Dc = 1°12'	DEGREE OF CURVE
V = 80(P), 70(F)	DESIGN SPEED (TIMETABLE SPEED)
Ea = 2 1/2"	ACTUAL SUPERELEVATION
Ls = 240'	LENGTH OF SPIRAL(S)

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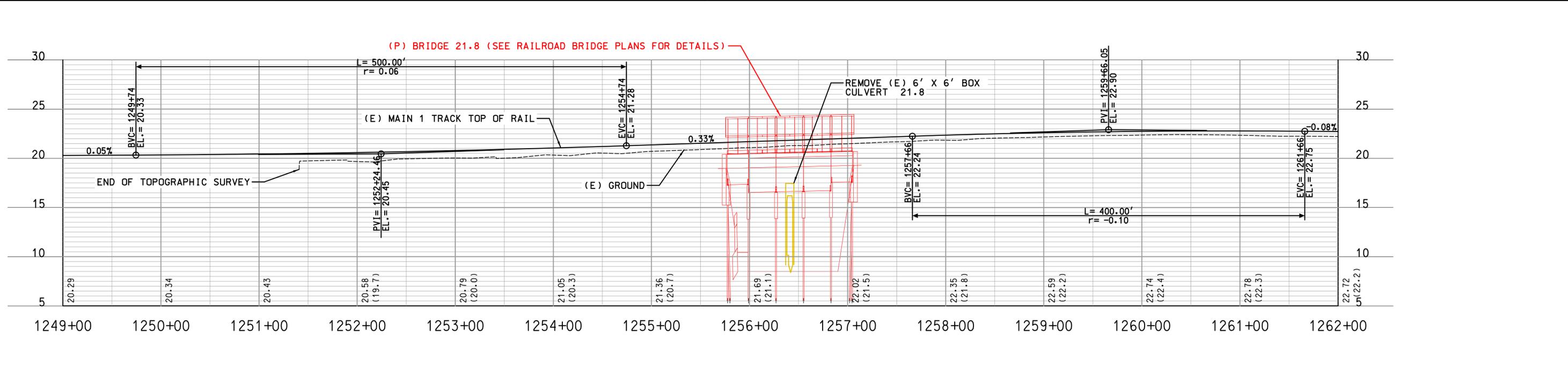
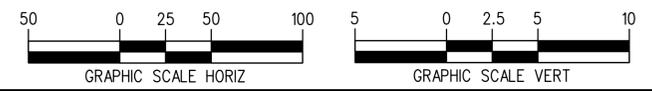
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CHECKED BY	MGQ	BNSF RAILWAY & SNOHOMISH COUNTY BNSF SCENIC SUBDIVISION MEADOWDALE BEACH PARK RAILROAD BRIDGE ABBREVIATIONS AND SYMBOLS			
APPROVED BY	MAF			CONTRACT NO. 14L006802 DRAWING NO. CK-04 REVISION SHEET NO. 4 OF 14 SCALE NONE	
DATE	6/11/2018				
REV	DATE	DESCRIPTION	BY	SUB	APP

← TO SEATTLE, WA

TO WENATCHEE, WA →



MAIN 1 PLAN



MAIN 1 PROFILE

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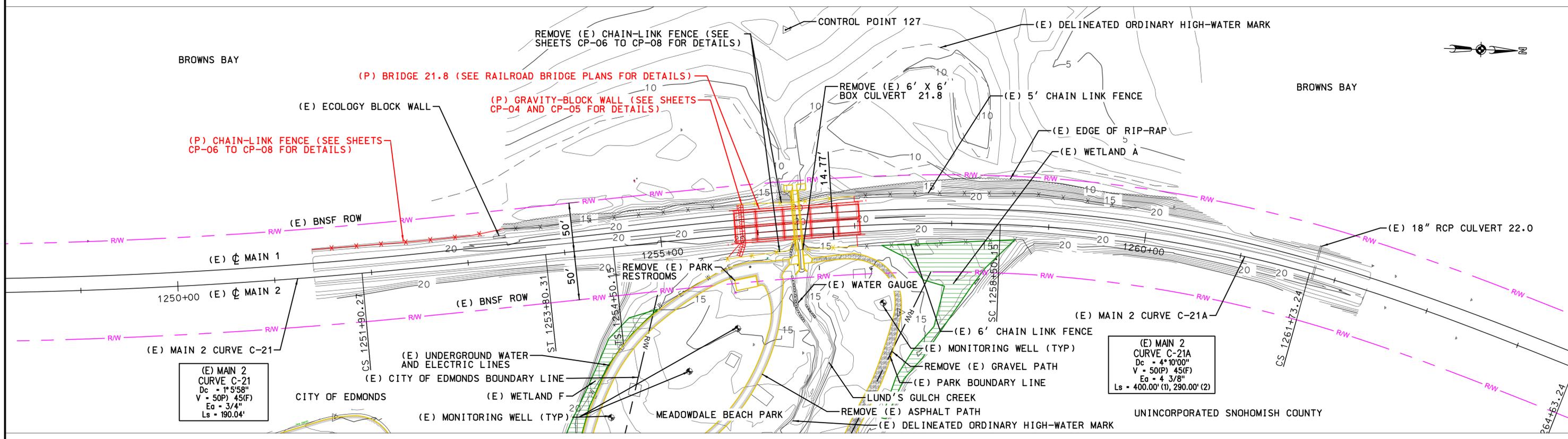
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		APPROVED BY	MAF	
		DATE	6/11/2018	
REV	DATE	DESCRIPTION	BY	APP

**BNSF RAILWAY & SNOHOMISH COUNTY**  
**BNSF SCENIC SUBDIVISION**  
**MEADOWDALE BEACH PARK RAILROAD BRIDGE**  
**TRACK PLAN AND PROFILE - MAIN 1**  
**STA 1251+00 TO STA 1262+00**  
**MP 21.7 TO MP 21.9**

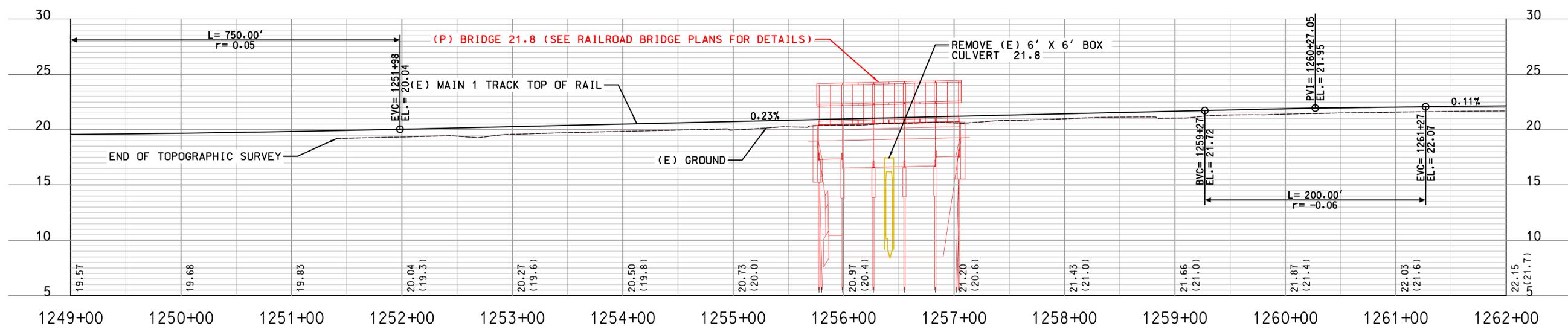
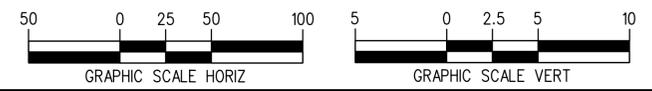
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DRAWING NO.	RP-01
REVISION	SHEET NO. 5 OF 14
SCALE	AS SHOWN

← TO SEATTLE, WA

TO WENATCHEE, WA →



MAIN 2 PLAN

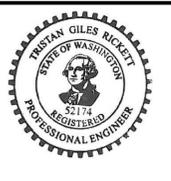


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 DATE 6/11/2018

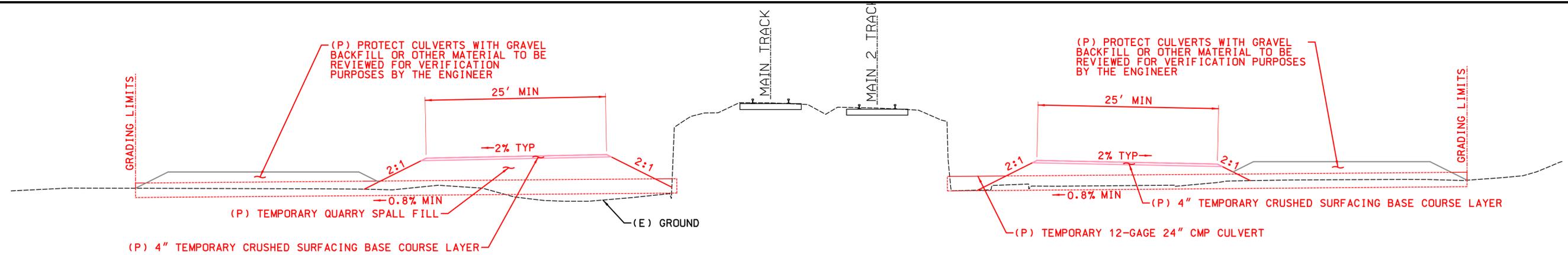


BNSF RAILWAY & SNOHOMISH COUNTY  
 BNSF SCENIC SUBDIVISION  
 MEADOWDALE BEACH PARK RAILROAD BRIDGE  
 TRACK PLAN AND PROFILE - MAIN 2  
 STA 1251+00 TO STA 1262+00  
 MP 21.7 TO MP 21.9

CONTRACT NO. 14L006802  
 DRAWING NO. RP-02  
 REVISION SHEET NO. 6 OF 14  
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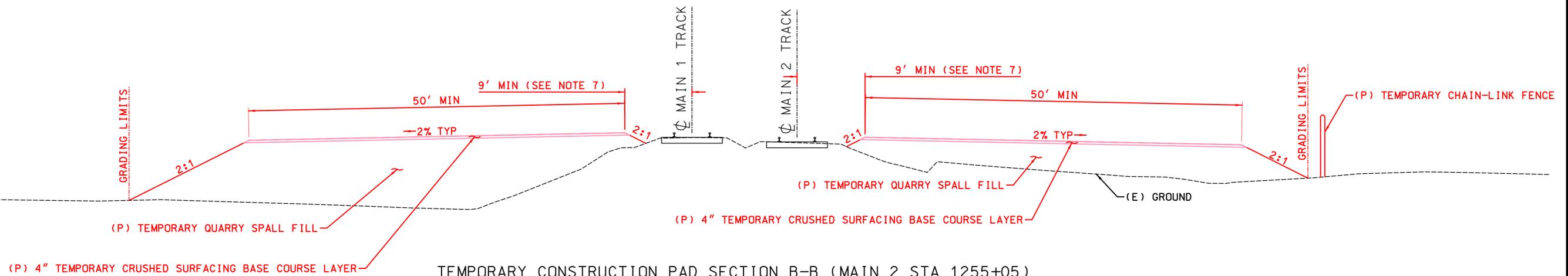
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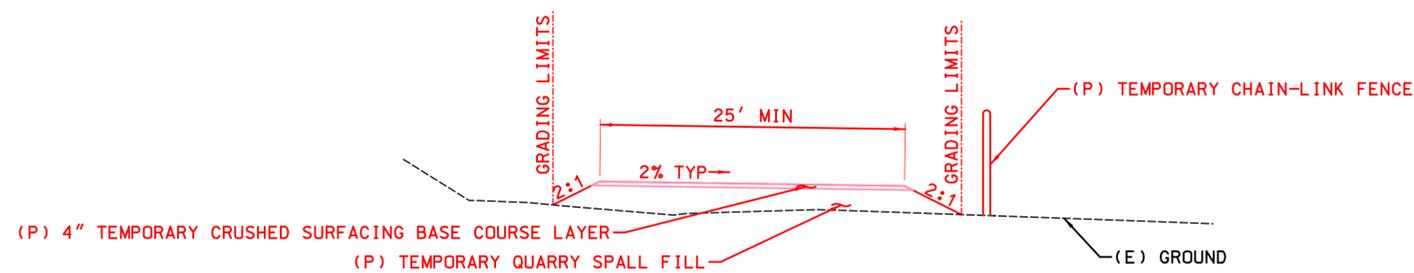
TEMPORARY CONSTRUCTION PAD SECTION C-C (MAIN 2 STA 1256+41)

NOT TO SCALE



TEMPORARY CONSTRUCTION PAD SECTION B-B (MAIN 2 STA 1255+05)

NOT TO SCALE



TEMPORARY CONSTRUCTION RAMP SECTION A-A (RAMP STA 0+60)

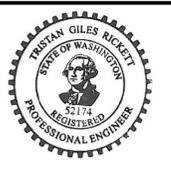
NOT TO SCALE

- NOTES:
- TEMPORARY GRADING PLAN PROVIDED WAS THE BASIS FOR PROJECT PERMITTING. CONTRACTOR TO DRAFT AND SUBMIT THEIR OWN PLAN FOR VERIFICATION PURPOSES TO THE ENGINEER.
  - TEMPORARY GRADING LIMITS SHALL NOT EXCEED THE PERMITTED LIMITS
  - MATERIAL RECOMMENDATIONS AND PAD WIDTHS PER LOCAL RAILROAD BRIDGE CONTRACTOR ON 8/9/2017.
  - TEMPORARY GRADING MATERIALS NEED TO BE CLEAN AND UNCONTAMINATED
  - QUARRY SPALL MATERIAL TO CONFORM WITH WSDOT STANDARD SPECIFICATION 9-13.1(5)
  - CRUSHED SURFACING BASE COURSE MATERIAL TO CONFORM WITH WSDOT STANDARD SPECIFICATION 9-03.9(3)
  - MINIMIZE GRADING WITHIN 9' OF TRACK CENTER LINES.
  - IN SECTION B-B, TOP OF PAD MATCHES EXISTING TOP OF RAIL ELEVATION PER LOCAL RAILROAD BRIDGE CONTRACTOR RECOMMENDATION.
  - IN SECTION C-C, TOP OF PAD IS APPROXIMATELY 8' BELOW TOP OF RAIL ELEVATION PER LOCAL RAILROAD BRIDGE CONTRACTOR RECOMMENDATION.

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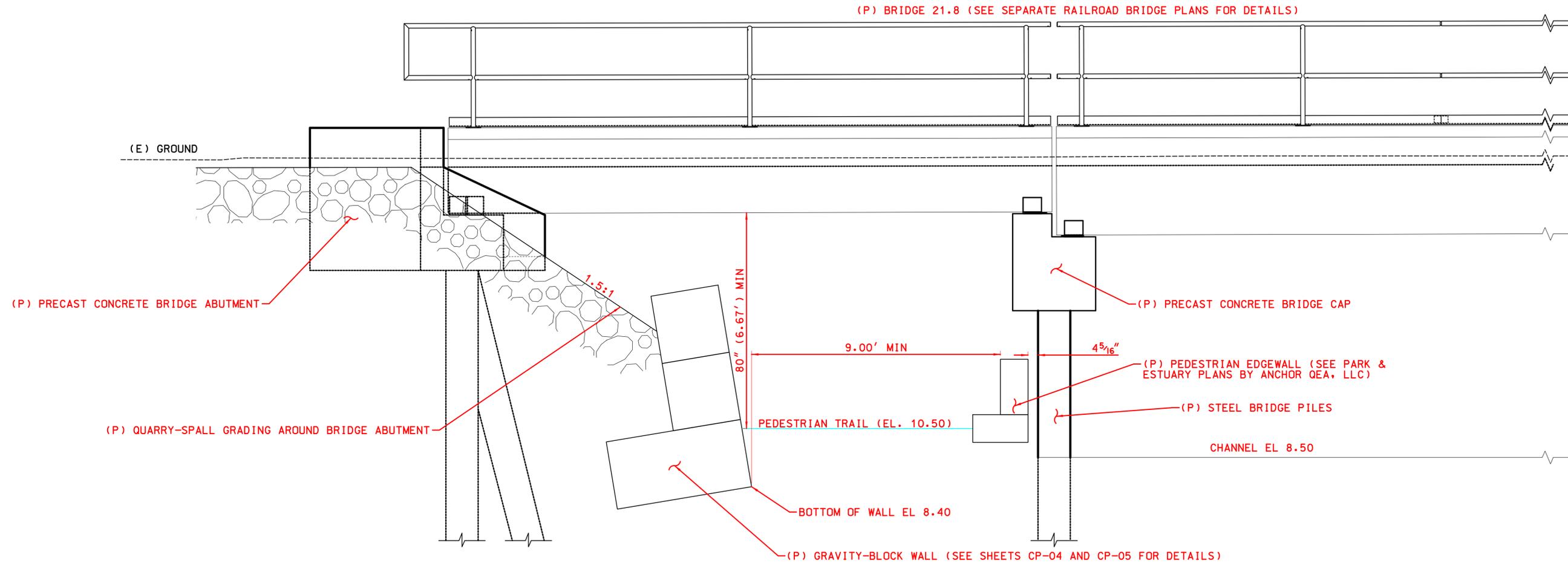
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 DRAWN BY TGR  
 CHECKED BY MGQ  
 APPROVED BY MAF  
 DATE 6/11/2018



BNSF RAILWAY & SNOHOMISH COUNTY  
 BNSF SCENIC SUBDIVISION  
 MEADOWDALE BEACH PARK RAILROAD BRIDGE  
 TEMPORARY GRADING TYPICALS  
 SHEET 01 OF 01

CONTRACT NO. 14L006802  
 DRAWING NO. CP-02  
 REVISION SHEET NO. 8 OF 14  
 SCALE NONE

REV	DATE	DESCRIPTION	BY	SUB	APP

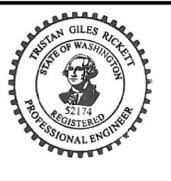


PROPOSED PEDESTRIAN TRAIL TYPICAL SECTION  
NOT TO SCALE

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Time: 3:34:27 PM

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**  
**60% SUBMITTAL**

DESIGNED BY TGR  
DRAWN BY TGR  
CHECKED BY MGQ  
APPROVED BY MAF  
DATE 6/11/2018



BNSF RAILWAY & SNOHOMISH COUNTY  
BNSF SCENIC SUBDIVISION  
MEADOWDALE BEACH PARK RAILROAD BRIDGE  
PED TRAIL UNDER BRIDGE TYPICAL SECTION  
SHEET 01 OF 01

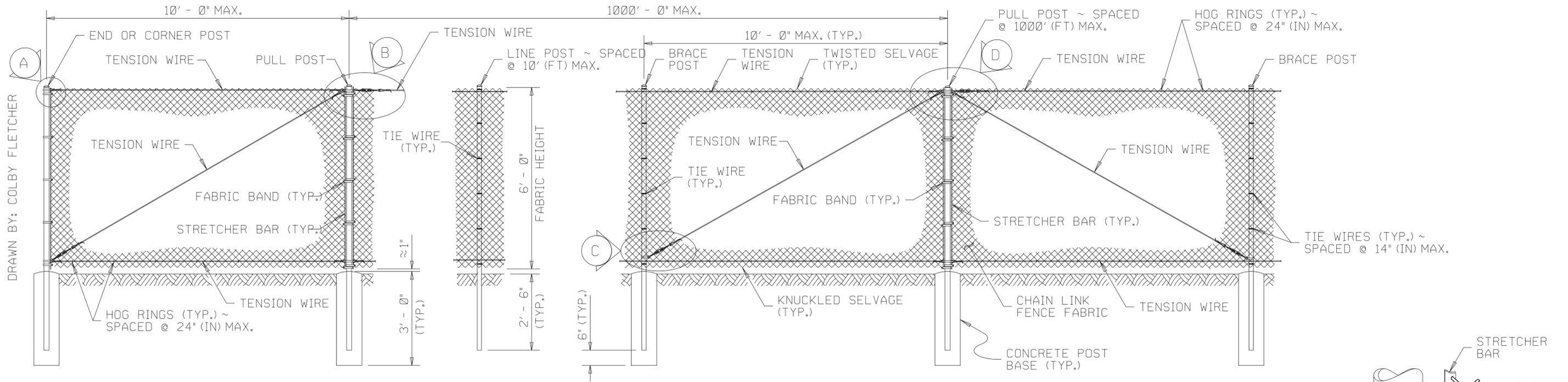
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REVISION SHEET NO. 9 OF 14  
SCALE NONE

REV	DATE	DESCRIPTION	BY	SUB	APP

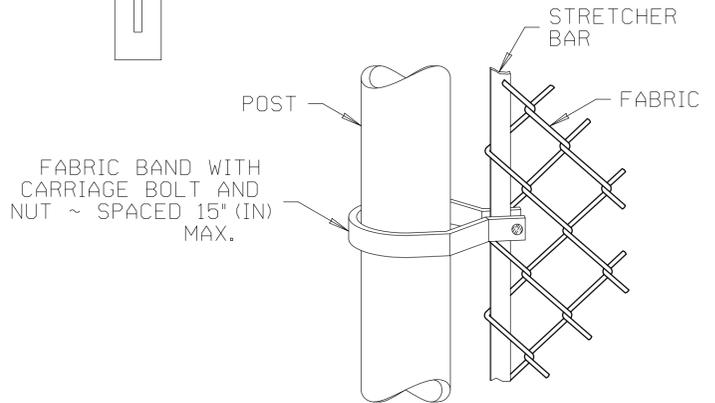








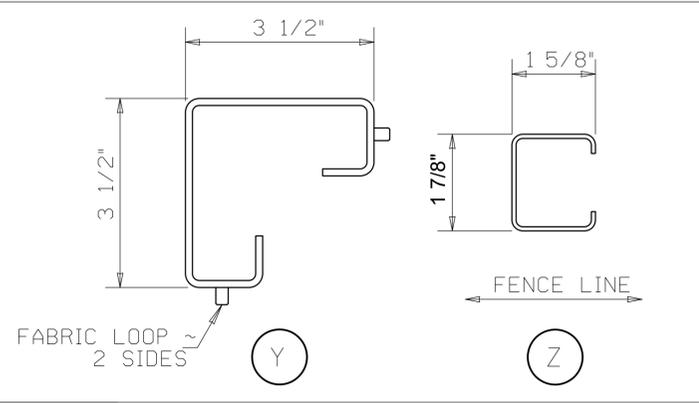
WSDOT TYPE 3 CHAIN-LINK FENCE



METHOD OF FASTENING STRETCHER BAR TO POST

POST AND RAIL SPECIFICATIONS

POST	PIPE	ROLL FORMED	
	NOM. SIZE (SCH. 40) I.D.	SECTION	WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	Y	5.10
LINE OR BRACE POST	2" DIAM.	Z	1.85



NOTES

1. ALL CONCRETE POST BASES SHALL BE 10" (IN) MINIMUM DIAMETER.
2. ALONG THE TOP AND BOTTOM, USING HOG RINGS, FASTEN THE CHAIN LINK FENCE FABRIC TO THE TENSION WIRE WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
3. DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.
4. FENCING SHALL BE USED FOR SECURITY AND BOUNDARY DELINEATION ONLY.

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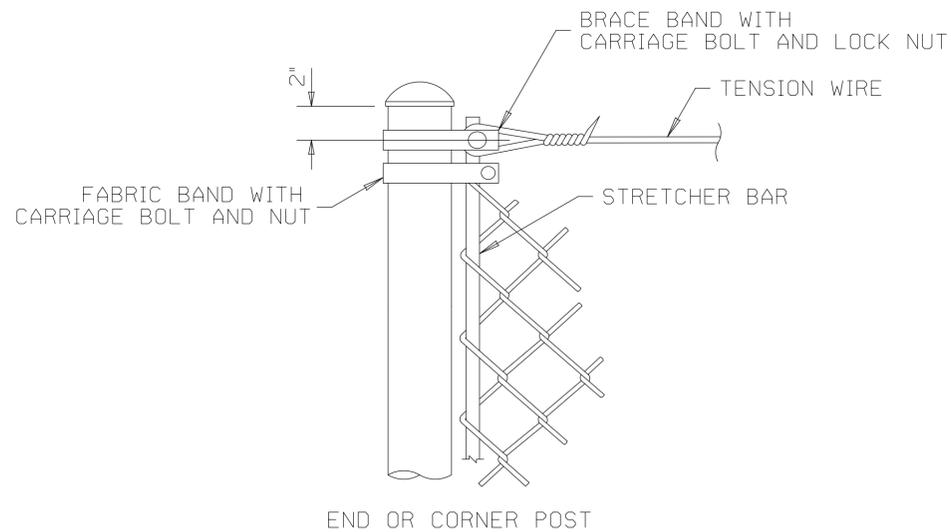
DESIGNED BY TGR  
 DRAWN BY TGR  
 CHECKED BY MGQ  
 APPROVED BY MAF  
 DATE 6/11/2018



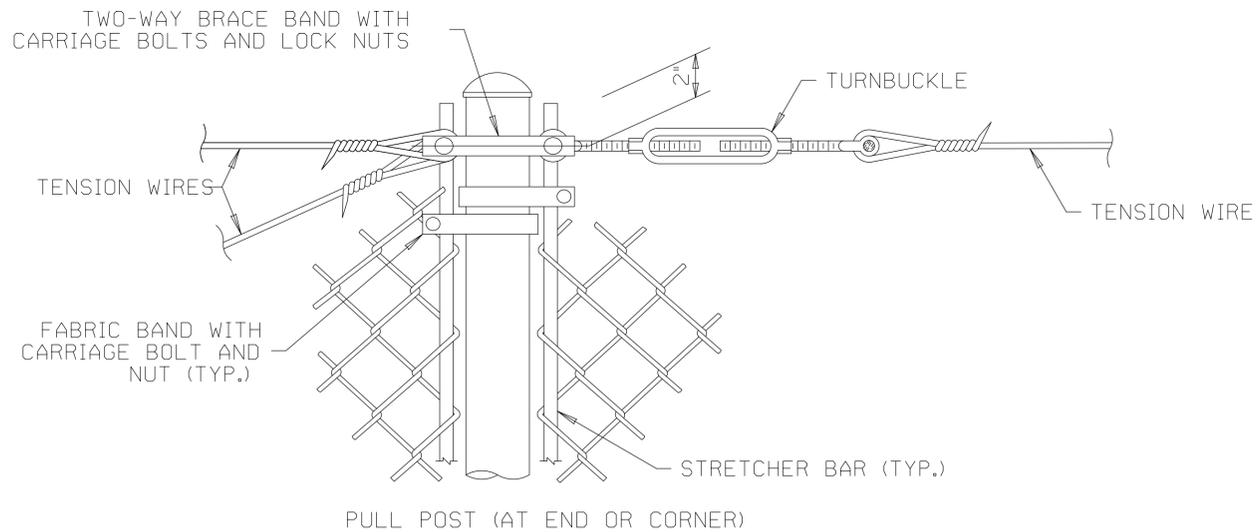
BNSF RAILWAY & SNOHOMISH COUNTY  
 BNSF SCENIC SUBDIVISION  
 MEADOWDALE BEACH PARK RAILROAD BRIDGE  
 FENCING DETAILS  
 SHEET 01 OF 02

CONTRACT NO.	14L006802
DRAWING NO.	CP-07
REVISION	SHEET NO. 13 OF 14
SCALE	NONE

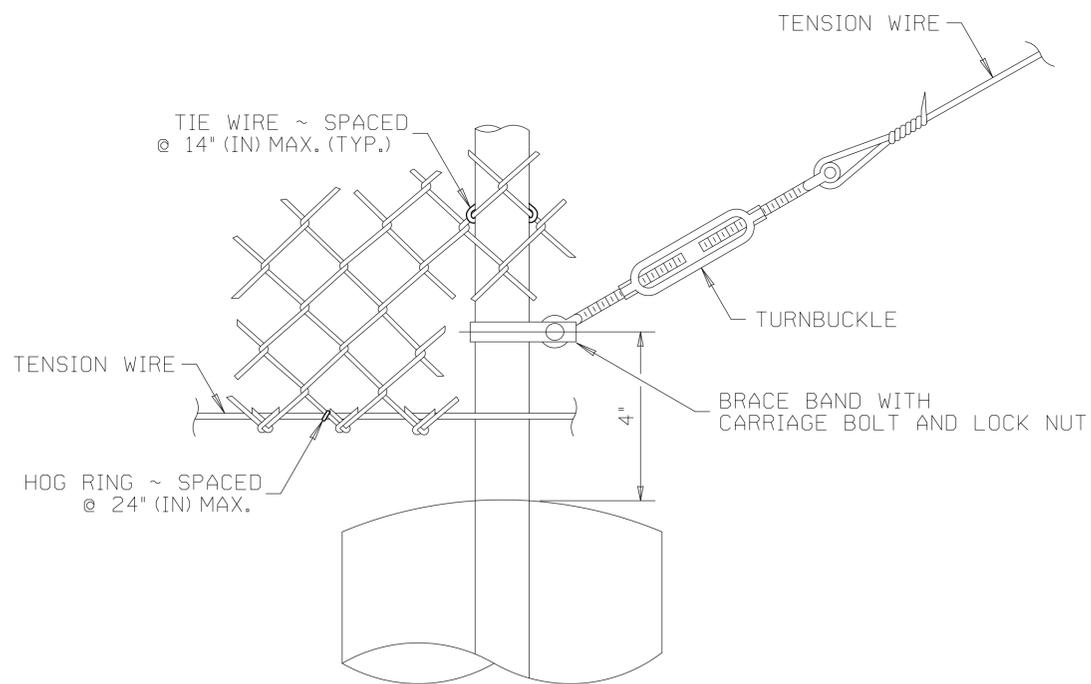
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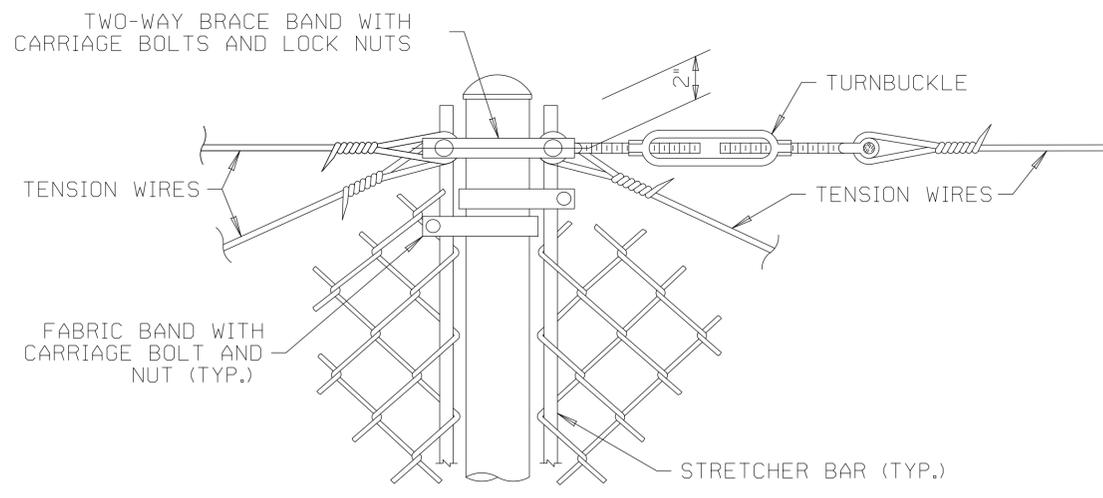
DETAIL (A)



DETAIL (B)



DETAIL (C)



DETAIL (D)

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APPROVED BY	MAF
DATE	6/11/2018

  
 Snohomish County  
 Parks and Recreation






**BNSF RAILWAY & SNOHOMISH COUNTY**  
**BNSF SCENIC SUBDIVISION**  
**MEADOWDALE BEACH PARK RAILROAD BRIDGE**  
**FENCING DETAILS**  
**SHEET 02 OF 02**

CONTRACT NO.		14L006802
DRAWING NO.		CP-08
REVISION	SHEET NO.	14 OF 14
SCALE		NONE

REV	DATE	DESCRIPTION	BY	SUB	APP