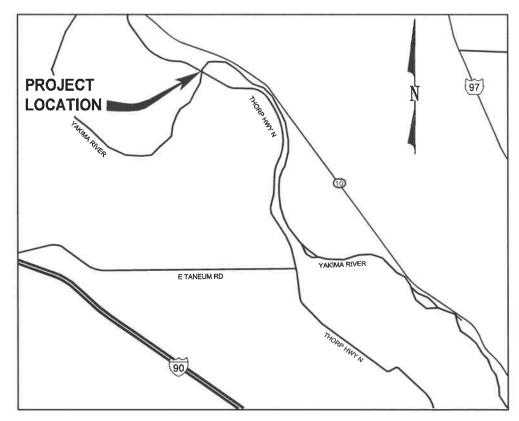
NORTH THORP HIGHWAY THORP TRUSS REHABILITATION PROJECT

BRIDGE NO. 97341 RC 2091



VICINITY MAP

BOARD OF COUNTY COMMISSIONERS

BRETT WACHSMITH, CHAIRPERSON LAURA OSIADACZ, VICE-CHAIRPERSON CORY WRIGHT, COMMISSIONER

DIRECTOR OF PUBLIC WORKS

MARK COOK, P.E.

COUNTY ENGINEER

JOSH FREDRICKSON, P.E.

		SHEET INDEX
SHEET	PLAN REF NO.	TITLE
1	G1	INDEX AND VICINITY MAP
2	S1	BRIDGE GENERAL NOTES
3	S2	BRIDGE PLAN AND ELEVATION
4	S3	STEEL REPAIR PLAN
5	S4	TRUSS SPAN TYPICAL SECTION AND NOTES
6	S5	RIVET EVALUATION CRITERIA
7	S6	ABUTMENT REPAIR PLAN
8	S7	REPAIR DETAILS 1
9	S8	REPAIR DETAILS 2
10	S9	REPAIR DETAILS 3
11	C1	TRAFFIC CONTROL

ABBREVIATIONS

10117	
ABUT	ABUTMENT
BK	BACK
80T	BOTTOM
CIP	CAST-IN-PLACE
QL_	CENTERLINE
	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CSBC	CRUSHED SURFACING BASE COURSE
DIA, ø	
EA EA	DIAMETER
	EACH
EL	ELEVATION
EQ	EQUAL
EX	EXISTING
Ë	EXPANSION
FF	
	FAR FACE
FSR	FOREST SERVICE ROAD
FT	FEET
HMA	HOT MIX ASPHALT
INCL	INCLUDING
INT	INTERIOR
JT.	
	JOINT
LT	LEFT
MANUF	MANUFACTURE
MIN	MINIMUM
NDT	NON-DESTRUCTIVE TESTING
NF	NEAR FACE
NIC	
NSI	NOT IN CONTRACT
	NON-STANDARD ITEM
NTS	NOT TO SCALE
OPP	OPPOSITE
P	PINNED
PAV'T	PAVEMENT
PL	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
RDWY	ROADWAY
REINF	REINFORCEMENT
RT	RIGHT
R/W	RIGHT-OF-WAY
SPA	SPACING
SPEC	STANDARD SPECIFICATIONS
STD	STANDARD
	SYMMETRIC
SYMM	
TCE	TEMPORARY CONSTRUCTION EASEMEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
11/	*** ** *

100% SUBMITTAL - NOT FOR CONSTRUCTION

FILE NAME:	NTB-G1				FEDERAL AID	
DATE:	11/12/2021				PROJECT NO.	
DESIGNED BY:	A. GASTINEAU				BHS-J191(004)	
ENTERED BY:	S. QAYOOMI					1
COUNTY ENGINEE	RJ. FREDRICKSO	N				S 2
P. W. DIRECTOR:	M. COOK	REVISION	DATE	ВҮ	_	, w









NORTH THORP HIGHWAY THORP TRUSS REHAB	PLAN REF NO G1
Kittitas County, Washington	1
INDEX AND VICINITY MAP	11

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, DATED 2022, AND AMENDMENTS.
- CONSTRUCTION AND WIND LOADING LIMITATIONS DURING PAINTING ACTIVITIES HAVE BEEN DETERMINED IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION AND CHAPTER 6 OF THE
- 3. THE DIMENSIONS SHOWN ON THE PLANS ARE BASED ON ORIGINAL DESIGN DRAWINGS, ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
- PAINTING SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION SECTION 6-07.
 ALL STEEL SURFACES REQUIRE FULL PAINT REMOVAL PRIOR TO APPLYING NEW PAINT SYSTEM. SEE WSDOT STANDARD SPECIFICATION SECTION 6-07.3(10)E FOR SURFACE PREPARATION.
- 5. EXISTING RIVETS SHALL BE INSPECTED AFTER ABRASIVE BLASTING OPERATIONS ARE COMPLETED AND SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH SECTION LOSS CRITERIA ON SHEET S6.

		SUMMA	RY OF	QUANTITIES			
ITEM NUMBER	STD. ITEM NO.	TOTAL QUANTITY	UNIT	DESCRIPTION			
			PREPAR	ATION			
1	0001	1	L.S.	MOBILIZATION			
STRUCTURE							
2	4468		L.S.	CLEANING AND PAINTING BRIDGE			
3	4469		L.S.	CONTAINMENT OF ABRASIVES			
4	4470		EST.	TESTING AND DISPOSAL OF CONTAINMENT WASTE			
5	4487	50	LF.	SEALING AND CAULKING PACK RUST			
6		50	EACH	REPLACE VACANT/DAMAGED RIVET WITH HS BOLT			
7	4444	40	L.F.	EXPANSION JOINT MODIFICATION			
8		40	LF.	ASPHALT PLUG REMOVAL AND HEADER REBUILD			
9	5706	160	L.F.	SEALING EXISTING TRANSVERSE JOINT			
10		510	S.F.	CONCRETE SPALL REPAIRS TYPE 1			
11		40	S.F.	CONCRETE SPALL REPAIRS TYPE 2			
12		0	S.F.	CONCRETE SPALL REPAIRS TYPE 3			
13			LS.	STEEL PORTAL REPAIRS			
			OTHER	ITEMS			
14			LS.	BARRIER GROUT PAD REPAIR			
15		50	EACH	GUARDRAIL BOLT/NUT REPAIR			
16	6757	8	L.F.	BEAM GUARDRAIL TYPE 31			
17	7736		LS.	SPCC PLAN			
18			L.S.	MIN. BID REQ. — TYPE B PROGRESS SCHEDULE			
			EROSION C	CONTROL			
19	6488	1	L.S.	EROSION CONTROL AND WATER POLLUTION PREVENTI-			
			TRAF	FIC			
20	6971	1	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL			

LEGEND



IDENTIFIES SECTION, VIEW OR DETAIL

> TAKEN OR SHOWN ON SHEET NO S7



TAKEN OR SHOWN ON THE SAME SHEET

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- 1						_		_
2	FILE NAME:	NT	B-\$1				FEDERAL AID	
į	DATE:	11	/12/2021				PROJECT NO.	
3	DESIGNED BY:	A.	GASTINEAU				BHS-J191(004)	
2000	ENTERED BY:	S.	QAYOOMI					
5	COUNTY ENGINEE	R:J.	FREDRICKSO	N				
5	P. W. DIRECTOR:	М.	COOK	REVISION DA	ATE E	3Y		







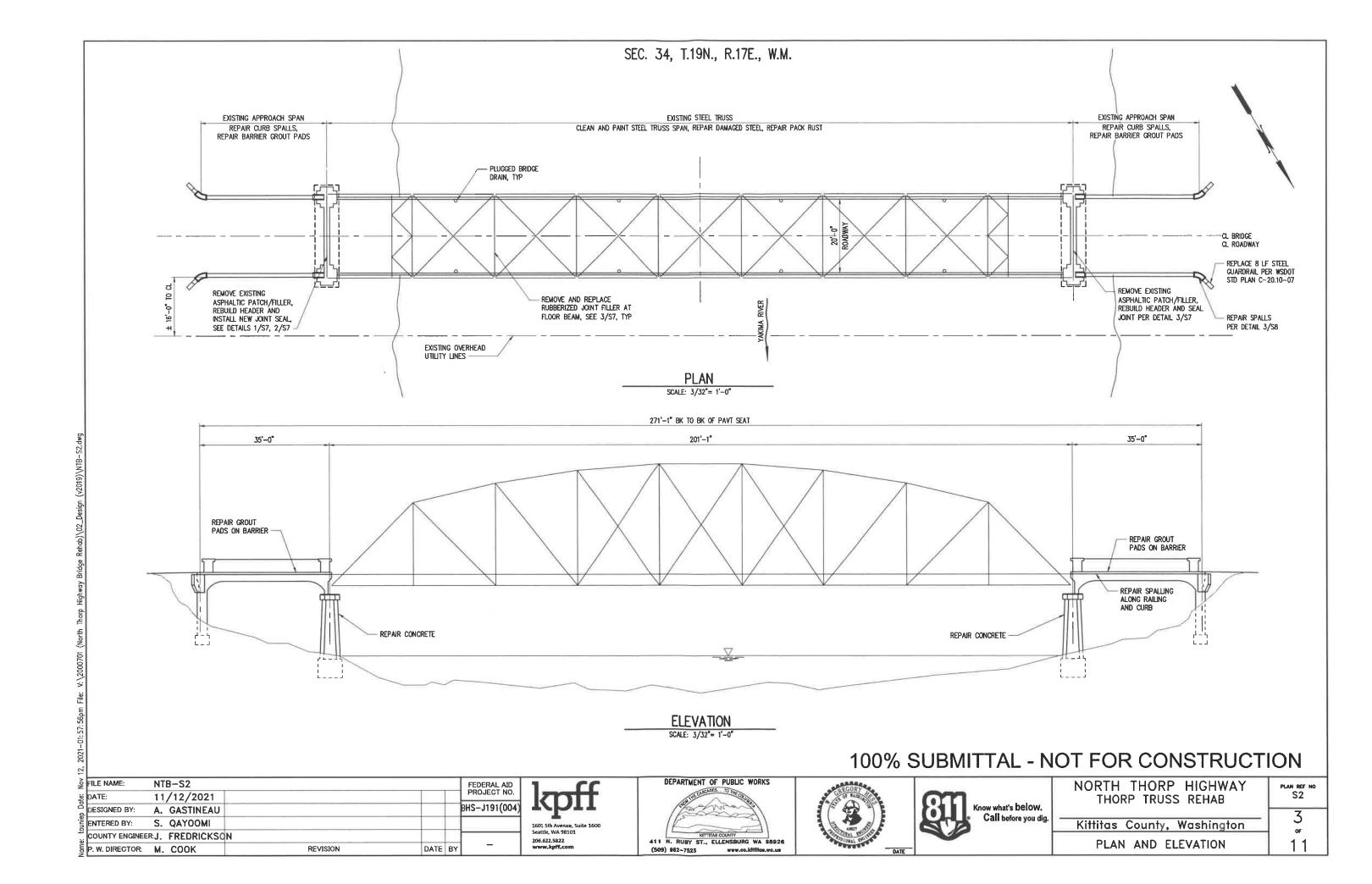


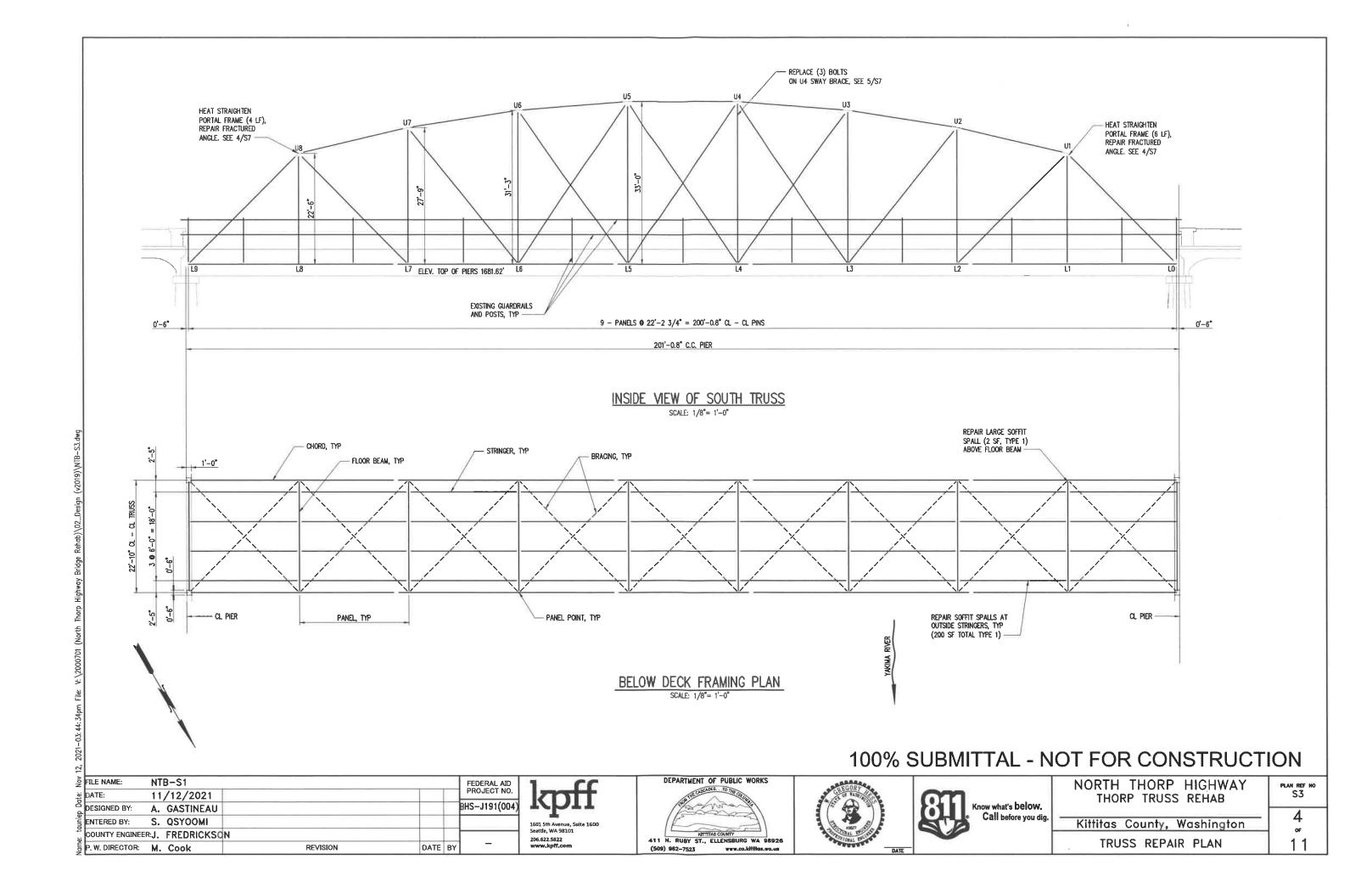
NORTH THORP HIGHWAY THORP TRUSS REHAB

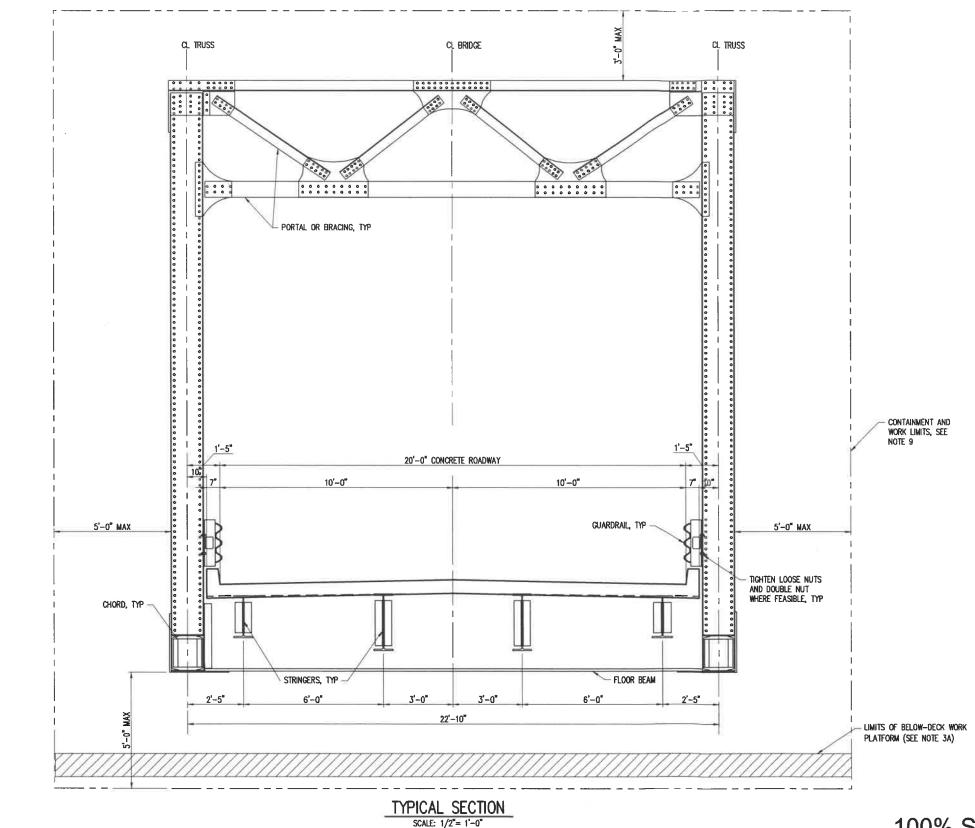
Kittitas County, Washington BRIDGE GENERAL NOTÉS

S1 OF

PLAN REF NO





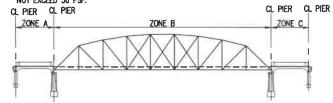


CONSTRUCTION LOADING NOTES FOR TRUSS SPAN:

- 1. TEMPORARY BARRIERS ARE NOT ALLOWED ON THE TRUSS SPAN DURING CONSTRUCTION.
- THE WEIGHT OF CONTAINMENT SYSTEM AND ABOVE-DECK CONSTRUCTION LOADS SUCH AS
 SCAFFOLDING AND PAINTING EQUIPMENT MAY BE SUPPORTED WITHIN THE WORK AREA SHOWN IN
 THE TYPICAL SECTION ON THIS SHEET. SEE NOTE 8 FOR CONTAINMENT SYSTEM AND
 ABOVE-DECK CONSTRUCTION LOAD LIMITS ALONG THE LENGTH OF THE BRIDGE. ATTACHMENTS
 MAY BE MADE TO THE TRUSS AT TRUSS PANEL POINTS ONLY. NO ATTACHMENTS MAY BE MADE
 TO TRUSS MEMBERS BETWEEN PANEL POINTS.
- 3. TEMPORARY BELOW-DECK WORK PLATFORM:
- A. THE CONTRACTOR MAY SUPPORT A TEMPORARY BELOW-DECK PLATFORM FROM THE TRUSS SPAN. THE WIDTH OF THE PLATFORM SHALL NOT EXCEED THE OUT-TO-OUT WIDTH OF THE BRIDGE PLUS 5-FEET ON EITHER SIDE. SEE NOTE 8 FOR BELOW-DECK PLATFORM LIMITS ALONG THE LENGTH OF THE BRIDGE.
- B. THE TOTAL WEIGHT OF THE BELOW-DECK PLATFORM (SELF WEIGHT, PLUS IMPOSED LOADS) SHALL NOT EXCEED 25 PSF.
- C. WHILE THE BELOW-DECK WORK PLATFORM IS IN PLACE, THE TRIBUTARY WEIGHT OF ABOVE-DECK CONSTRUCTION LOADS TO ANY OF THE LOWER PANEL POINTS, WITHIN THE CORRESPONDING CONSTRUCTION LOADING YOUR SHALL NOT EXCEPT 6 DOO POINTS
- D. THE PLATFORM MAY BE SUSPENDED FROM THE STRINGERS AND FLOOR BEAMS. MAXIMUM IMPOSED LOADS ARE SHOWN IN THE FOLLOWING TABLE. ADJACENT POINT LOADS MAY NOT BE PLACED CLOSER THAN 4 FEET.

POINT LOAD (POUNDS)
1600
1600
1600

- E. THE PLATFORM MAY BE SUSPENDED FROM THE TRUSS IF SUPPORT POINTS ARE LOCATED AT THE LOWER PANEL POINTS ONLY. NO ATTACHMENT SHALL BE MADE TO TRUSS MEMBERS RETWEEN PANEL POINTS.
- 4. THE MAXIMUM REACTION AT ANY ATTACHMENT POINT SHALL NOT EXCEED 3,000 POUNDS.
- i. ATTACHMENT TO THE BRIDGE SHALL BE MADE WITH CLAMP OR PADDED WRAP TYPE CONNECTORS. HOLES SHALL NOT BE MADE IN BRIDGE MEMBERS. NO WELDING TO BRIDGE IS ALLOWED. METHODS OF ATTACHMENT TO THE BRIDGE SHALL BE SUBMITTED IN ACCORDANCE WITH THE STANDARD SPECIFICATION SECTION 6-07.3(2)F. THE PLATFORN MAY BE SUSPENDED FROM THE STRINGERS AND FLOOR BEAMS. MAXIMUM IMPOSED LOADS ARE SHOWN IN THE PREVIOUS TABLE. ADJACENT POINT LOADS MAY NOT BE PLACED CLOSER THAN 4 FEET. CONTRACTOR TO SUBMIT ATTACHMENT PLAN. PLAN SHALL INCLUDE CALCULATIONS SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON DEMONSTRATING CONNECTORS WILL NOT DAMAGE BRIDGE MEMBERS LOCALLY.
- 6. WORKING DRAWINGS AND CALCULATIONS (TYPE 2E) SHALL BE SUBMITTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 1-05.3. WORKING DRAWINGS AND CALCULATIONS SHALL SHOW THAT ALL THE ABOVE CONSTRAINTS HAVE BEEN MET. CONSTRUCTION LOADS SHALL NOT BE PLACED ON THE BRIDGE UNTIL THE ASSOCIATED WORKING DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED AND ACCEPTED BY THE ENGINEER.
- 7. REMOVED PAINT, DEBRIS AND SPENT ABRASIVE BLAST MEDIA SHALL BE COLLECTED AND REMOVED FROM THE BRIDGE DAILY, AT A MINIMUM.
- CONSTRUCTION LOADS MAY BE PLACED ANYWHERE IN ZONES A AND B OR C AS SHOWN BELOW.
 TOTAL LOADS ON THE DECK AND BELOW WORK PLATFORM IN ZONES A AND C SHALL NOT
 EXCEED 40 PSF. TOTAL LOADS ON THE DECK AND BELOW WORK PLATFORM IN ZONE B SHALL
 NOT EXCEED 30 PSF.



VERTICAL COMPONENTS OF THE CONTAINMENT SYSTEM (TARPS) SHALL BE REMOVED WHEN WIND SPEEDS (GUST) EXCEED OR ARE FORECASTED TO EXCEED 45 MILES PER HOUR. SEE SPECIAL PROVISIONS FOR WEATHER SOURCE REQUIREMENTS.

100% SUBMITTAL - NOT FOR CONSTRUCTION

FILE NA	ME:	NT	B-S1				FEDERAL AID	1
DATE:		11	/12/2021				PROJECT NO.	
DESIGN	ED BY:	A.	GASTINEAU				BHS-J191(004)	19
ENTERE	D BY:	S.	QAYOOMI					
COUNT	Y ENGINEER	₹J.	FREDRICKSO	N				1
P. W. DII	RECTOR:	М.	COOK	REVISION	DATE	BY		

1601 5th Avenue, Suite 1600 Seattle, WA 98101 206.622.5822 www.kpff.com







NORTH THORP HIGHWAY
THORP TRUSS REHAB

Kittitas County, Washington
PLAN AND ELEVATION

5 - 5 - 11

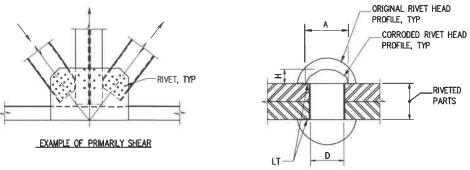
RIVET INSPECTION AND REPLACEMENT NOTES:

- EXISTING RIVETS TO REMAIN ON MEMBERS AND/OR GUSSETS SHALL BE EVALUATED AFTER FIELD PREPARATION FOR PAINTING AND PRIMING IS COMPLETED AND SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE RIVET EVALUATION CRITERIA SHOWN ON THIS SHEET. NEW H.S. BOLTS SHALL BE INSTALLED AND TENSIONED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION SECTION 6-03.3(33), AND PREPARED FOR PAINT IN ACCORDANCE WITH SECTION 6-07.3(11)A.
- BOLTS SHALL CONFORM TO ASTM F3125 GR A325 AND SHALL BE GALVANIZED. BOLTS
 REPLACING RIVETS SHALL HAVE A DIAMETER MATCHING THE DIAMETER OF THE RIVET THEY
 REPLACE. EXISTING HOLES MAY BE REAMED TO THE RIVET DIAMETER PLUS 1/8" MAXIMUM
 TO FACILITATE BOLT INSTALLATION IF NEEDED.
- UNLESS OTHERWISE SHOWN IN THE PLANS OR APPROVED BY THE ENGINEER, ONLY ONE RIVET MAY BE REMOVED AND REPLACED AT A TIME AT ANY CONNECTION. THE REPLACEMENT BOLT SHALL BE FULLY INSTALLED AND TENSIONED BEFORE THE NEXT RIVET MAY BE REMOVED.
- 4. PRIOR TO STARTING ANY RIVET REMOVAL, THE CONTRACTOR SHALL SUBMIT AT TYPE 2 WORKING DRAWING DETAILING PROPOSED RIVET REMOVAL METHODS TO THE ENGINEER. ACCEPTANCE WILL REQUIRE DEMONSTRATION BY THE CONTRACTOR TO ENSURE NO DAMAGE WILL OCCUR TO THE EXISTING MEMBER TO REMAIN. NO FLAME CUTTING METHODS WILL BE PERMITTED.

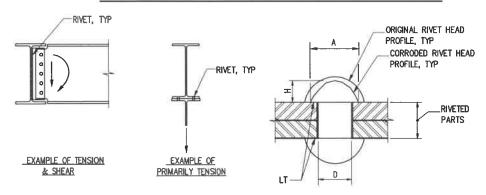
RIVET EVALUATION CRITERIA:

RIVETS SHALL BE REPLACED IF THEY FAIL TO MEET ANY ONE OF THESE CRITERIA.

- REPLACE RIVET IF THERE IS SEPARATION BETWEEN THE SOUND METAL SURFACES OF EITHER RIVET HEAD AND THE RIVETED PARTS. (SEE SYMBOL 66)
- REPLACE RIVET IF THE RIVET VISUALLY APPEARS TO BE LOOSE FOR ANY REASON. RIVETS
 VISUALLY SUSPECT OF BEING LOOSE SHALL BE CONFIRMED LOOSE IF IT CAN BE FELT TO
 MOVE AFTER BEING STRUCK ON THE SIDE OF THE HEAD IN A DIRECTION APPROXIMATELY
 PERPENDICULAR TO ITS SHANK WITH A 40 0Z HAMMER.
- REPLACE RIVET IF SECTION LOSS IS EQUAL TO OR GREATER THAN THE DIAGRAM SHOWN BELOW. THE ENGINEER SHALL BE CONSULTED IF UNCLEAR AS TO THE RIVET LOADING CONDITION OR USE THE SECTION LOSS CRITERIA FOR "UNKNOWN" LOADING CONDITION. FOR RIVETS WITH IRREGULAR SECTION LOSS, CONTACT THE ENGINEER FOR DIRECTION.



RIVET LOADING CONDITION - PRIMARILY SHEAR



RIVET LOADING CONDITION PRIMARILY TENSION, TENSION & SHEAR, OR UNKNOWN

	MIN	imum rivet dimensi	ONS	
	LOADING: PRI	MARILY SHEAR		SION & SHEAR, R UNKNOWN
RIVET SHANK DIAMETER "D"	MINIMUM HEAD DIAMETER "A"	MINIMUM HEAD HEIGHT "H"	MINIMUM HEAD DIAMETER "A"	MINIMUM HEAD HEIGHT "H"
5/8"	7/8"	3/16"	1"	3/8"
3/4"	1"	1/4"	1 1/8"	7/16"
7/8"	1 1/8"	3/8"	1 1/4"	9/16"

100% SUBMITTAL - NOT FOR CONSTRUCTION

	FILE NAME:	NTB-S6.DWG				FEDERAL AID	
3	DATE: 1	1/12/2021				PROJECT NO.	
3	DESIGNED BY:	A. GASTINEAU				BHS-J191(004)	
	ENTERED BY:	R. JACKSON					
;	COUNTY ENGINEER:	J. FREDRICKSO	N				
,	P. W. DIRECTOR:	M. COOK	REVISION	DATE	BY		L

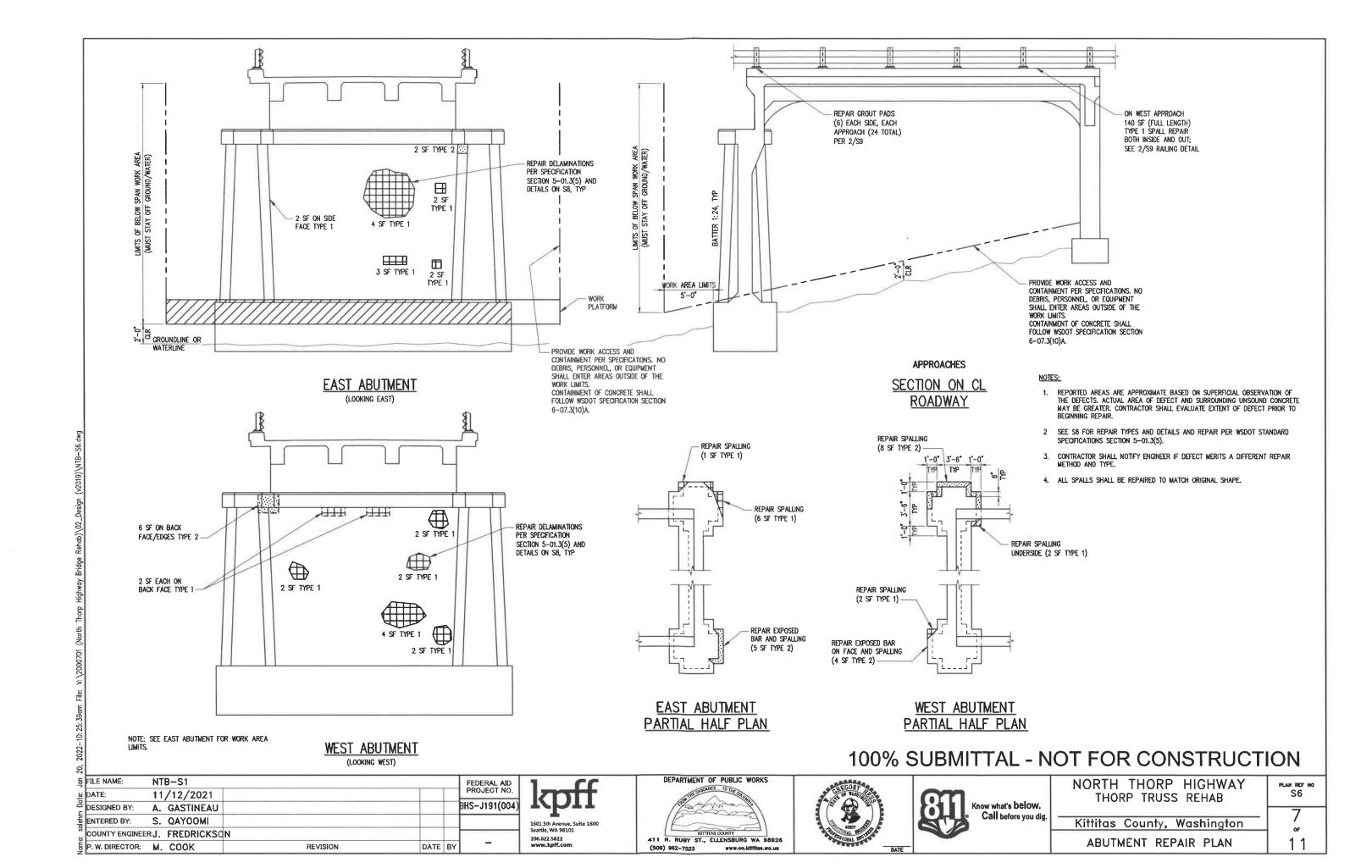


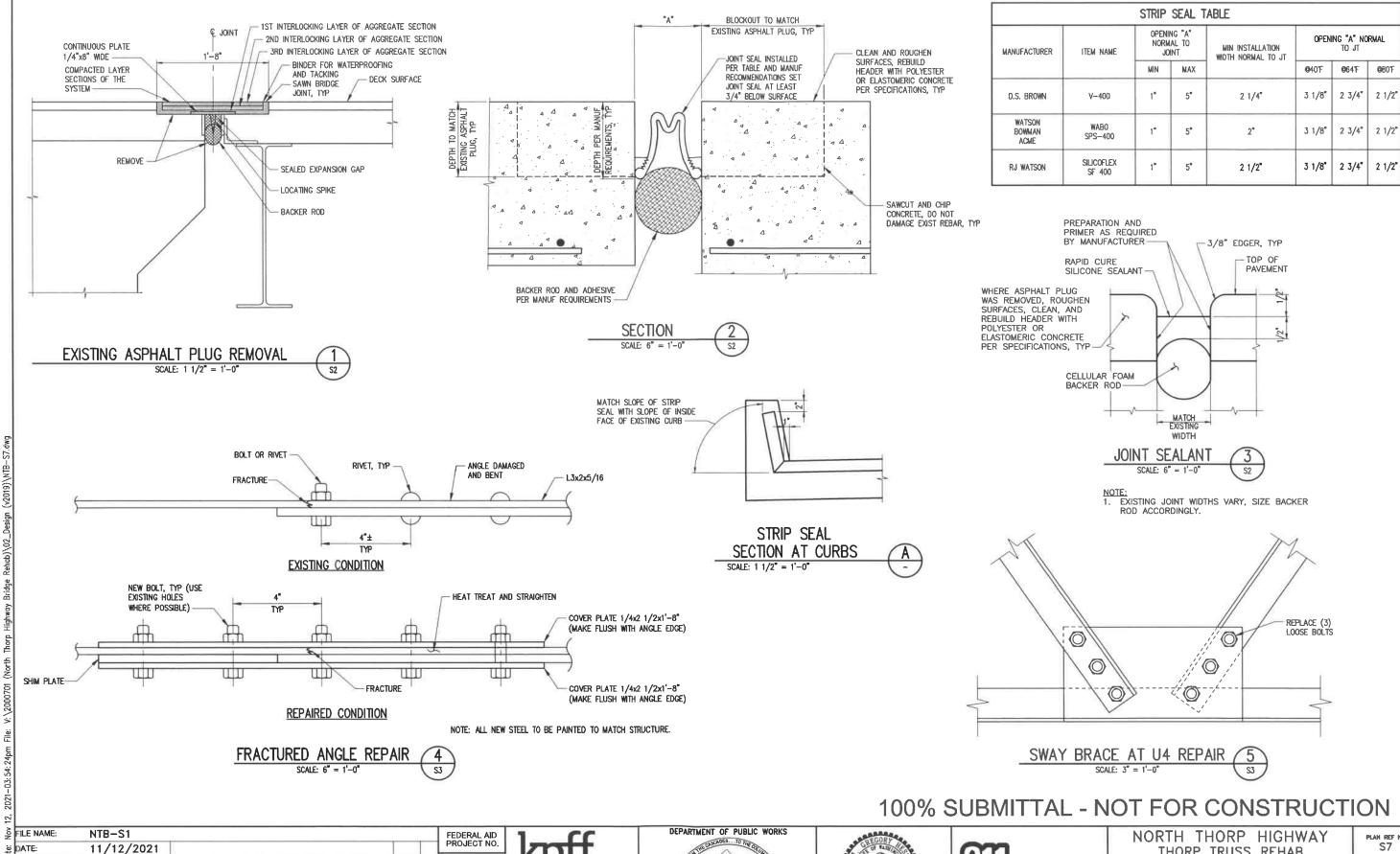






	NORTH THORP HIGHWAY THORP TRUSS REHAB	PLAN REF NO S5
g.	Kittitas County, Washington	6
	RIVET EVALUATION CRITERIA	1 1





DESIGNED BY: ENTERED BY: COUNTY ENGINEER: J. FREDRICKSON P. W. DIRECTOR: M. COOK

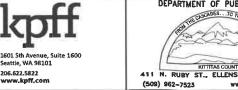
A. GASTINEAU

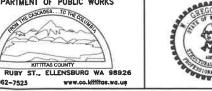
S. QAYOOMI

BHS-J191(004 206.622.5822

DATE BY

REVISION

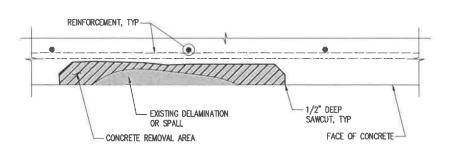


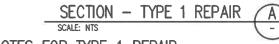






NORTH THORP HIGHWAY THORP TRUSS REHAB	PLAN REF I
	8
Kittitas County, Washington	o _F
REPAIR DETAILS 1	1 1 1





NOTES FOR TYPE 1 REPAIR

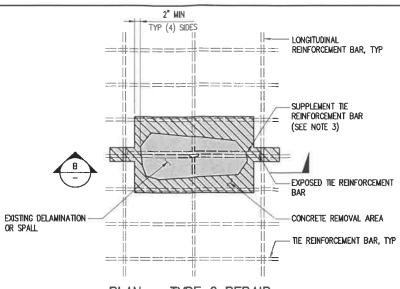
DELAMINATION OR SPALL EXTENDS NO FURTHER THAN THE OUTSIDE OF TIE REINFORCING BARS (BARS NOT VISIBLE). REMOVE CONCRETE WITHIN LIMITS SHOWN. PATCH WITH CONCRETE REPAIR MORTAR CONFORMING TO SECTION 9-20 OF THE PROJECT SPECIFICATIONS.

NOTES FOR ALL REPAIRS

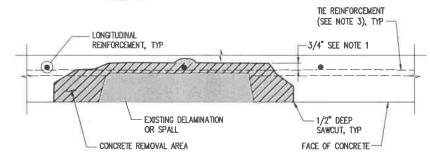
- CONTRACTOR SHALL PERFORM REPAIR WORK IN ACCORDANCE WITH SPEC SECTION 6-01.16, ACI 546R-14, AND APPLICABLE ACI FIELD GUIDE TO REPAIR APPLICATION (RAP) BULLETINS. CONTRACTOR SHALL SUBMIT TYPE 2E WORKING DRAWINGS FOR PROPOSED REPAIR PROCEDURES AND MATERIALS TO THE ENGINEER FOR APPROVAL. IMPACT BREAKERS SHALL
- 2. ALL EXPOSED REINFORCING STEEL SHALL BE CLEANED OF ALL SCALE, RUST, DIRT, OIL OR ANY OTHER DELETERIOUS MATERIAL PRIOR TO PLACING MORTAR OR CONCRETE.

NOTES FOR ROUGHENED SURFACES

CONTRACTOR SHALL PREPARE ALL EXISTING CONCRETE SURFACES TO COME IN CONTACT WITH CONCRETE CLASS 4000B IN ACCORDANCE WITH SPEC SECTION 6-02.3(12)B.



PLAN - TYPE 2 REPAIR





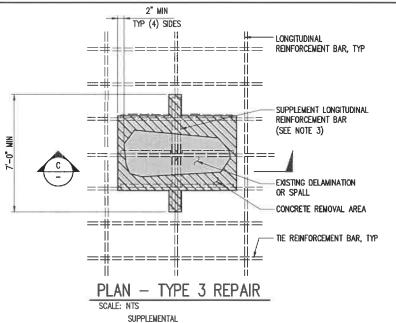
NOTES FOR TYPE 2 REPAIR

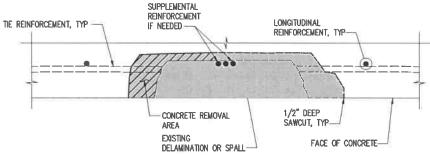
- 1, DELAMINATION OR SPALL EXTENDS FURTHER THAN TYPE 1, BUT NO FURTHER THAN THE OUTSIDE OF THE TIE REINFORCEMENT BARS, REMOVE ALL CONCRETE 3/4" MINIMUM CLEARANCE AROUND ALL TIE REINFORCEMENT BARS. PATCH WITH CONCRETE REPAIR MORTAR CONFORMING TO SECTION 9-20 OF THE PROJECT
- 2. IF IT IS DETERMINED THAT THE UNSOUND CONCRETE EXTENDS FURTHER THAN 3/4" BEYOND THE EXPOSED TIE REINFORCEMENT, SEE TYPE 3 REPAIR.
- IF TIE REINFORCEMENT BAR HAS GREATER THAN 20% SECTION LOSS, REMOVE CONCRETE A MINIMUM OF 2'-6" ON EACH SIDE OF SECTION LOSS, AND PLACE A NEW SUPPLEMENTARY TIE REINFORCEMENT BAR, OF THE SAME CROSS-SECTIONAL AREA AS THE ORIGINAL ADJACENT AND PARALLEL TO THE DEFICIENT BAR, EXTENDING 2'-3" BEYOND EACH END OF THE SECTION HAVING 20% SECTION LOSS. IF THE REQUIRED REMOVAL AREA IS BEYOND THE CORNER OF THE MEMBER, THE CONCRETE ON THE ADJACENT SIDE SHALL BE REMOVED AND THE NEW SUPPLEMENTARY BAR SHALL BE BENT 90".

LEGEND









SECTION - TYPE 3 REPAIR



NOTES FOR TYPE 3 REPAIR

- DELAMINATION OR SPALL EXTENDS FURTHER THAN TYPE 2 REMOVE ALL CONCRETE 3/4" MINIMUM CLEARANCE AROUND ALL LONGITUDINAL REINFORCEMENT BARS. PATCH WITH CONCRETE REPAIR MORTAR CONFORMING TO
- 2. IF IT IS DETERMINED THAT THE UNSOUND CONCRETE EXTENDS FURTHER THAN 3/4" BEYOND THE EXPOSED LONGITUDINAL REINFORCEMENT, THE CONTRACTOR SHALL HALT THE WORK AT THAT LOCATION AND NOTIFY THE ENGINEER. THE ENGINEER WILL REVIEW THE SPECIFIC LOCATION WITH THE CONTRACTOR AND DETERMINE HOW TO PROCEED. THE CONTRACTOR SHALL NOT PROCEED WITH FURTHER REMOVAL AT THE SPECIFIC LOCATION WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
- 3. IF LONGITUDINAL REINFORCEMENT BAR HAS GREATER THAN 20% SECTION LOSS, REMOVE CONCRETE A MINIMUM TO 3'-6' ON EACH SIDE OF SECTION LOSS, AND PLACE (2) SUPPLEMENTARY LONGTUDINAL REINFORCEMENT BARS, OF THE SAME CROSS-SECTIONAL AREA AS THE ORIGINAL ADJACENT AND PARALLEL TO THE DEFICIENT BARS, EXTENDING 3'-0" BEYOND EACH END HAVING 20% SECTION LOSS, MECHANICAL SPLICES MAY BE USED TO FACILITATE PLACEMENT. ALSO PERFORM REPAIRS AS DESCRIBED IN TYPE 2 REPAIR

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FILE NAME: NTB-S1 PROJECT NO DATE: 11/12/2021 BHS-J191(004 DESIGNED BY: A. GASTINEAU ENTERED BY: S. QAYOOMI COUNTY ENGINEER: J. FREDRICKSON P. W. DIRECTOR: M. COOK REVISION DATE BY

1601 5th Avenue, Suite 1600 206.627.5822





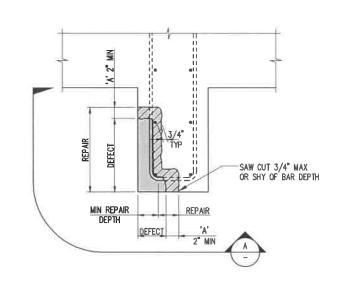


		HIGHWAY
THORF	TRUSS	REHAB

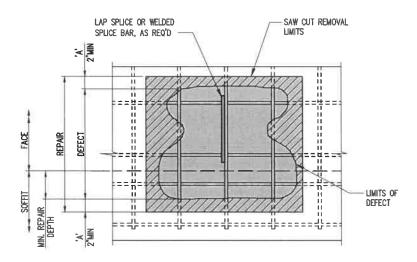
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9

Kittitas County, Washington REPAIR DETAILS 2

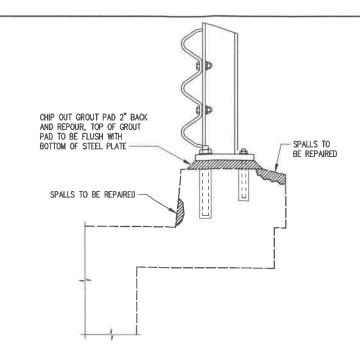


DETAIL - MULTIFACE SPALL REPAIR 1



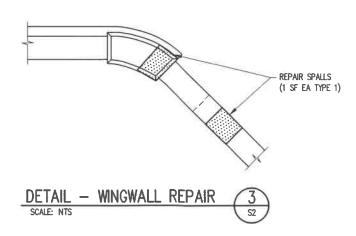
SECTION - MULTIFACE SPALL REPAIR A

NOTE: FOR TYPE 1 REPAIRS WHERE BAR IS NOT EXPOSED, FOLLOW DETAILS ABOVE BUT DO NOT CHIP DEEPER TO EXPOSE BAR.



DETAIL — APPROACH SPAN
BARRIER GROUT PAD AND CURB REPAIR
SCALE: NTS

Solice NTS

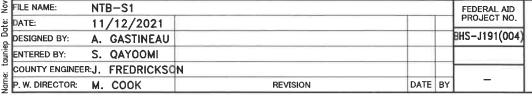


LEGEND:





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NORTH THORP HIGHWAY THORP TRUSS REHAB	PLAN REF NO S9
Kittitas County, Washington	- 10 °F
REPAIR DETAILS 3	11