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UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQURED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PERSONAL PROTECTION EQUIPMENT (PPE)

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY & HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/ POLICIES/220-006(SP).PDF

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE: XXIV.

HEAD PROTECTION (HARD HATS):

ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE 1, CLASS E-G REQUIREMENTS. XXXIV.

SAFETY APPAREL AND VEST (HIGH VISIBILITY):

ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES."WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III AP-PROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

EROSION CONTROL

THE ESTIMATED QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR EROSION CONTROL.

ITEM 832 EROSION CONTROL =

2,000 EACH

CONTACT INFORMATION

THE CONTRACTOR SHALL NOT BEGIN WORK ON THE FIELD PAVING IN A COUNTY UNTIL CONTACTING THE COUNTY MANAGER AND PROJECT ENGINEER. BELOW IS A CONTACT LIST FOR COUNTY **MANAGERS:**

VANWERT COUNTY

CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER					
KYLE FIELDS	DEPARTMENT MANAGER	(419) 999-6930	-					
PATRICK MCCONN	TRANSPORT MGR2	(419) 999-6772	(419)-605-8508					
BRYAN HOERSTEN	TRANSPORT MGR2	(419)-999-6778	(419)-549-2635					

LANE VALUE CONTRACT TABLE

DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
2-LANES OF VAN-US 30 IN EACH DIRECTION FROM MM13 TO MM 15 & MM 21 TO MM 23	SEE HOLIDAY SCHEDULE & TIMES FOR ALL LANES OPEN TO TRAFFIC IN PLAN NOTE FOR ITEM 614, MAINTAINING TRAFFIC, SHEET 2	EACH HOUR	\$7,500

WINDOW CONTRACT TABLE

USE THE FOLLOWING TABLE AS REFERRED TO IN THE PLANS AND PROPOSAL:

	WINDOW CONTRACT TABLE										
DESCRIPTION OF CRITICAL WORK	CALENDER DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW START	WORK WINDOW END							
COMPLETE HEAT STRAIGHTENING AND COLLISION REPAIR WORK AT VAN-30-14.02	30	\$1,000	9/15/2024	11/15/2024							
COMPLETE HEAT STRAIGHTENING AND COLLISION REPAIR WORK AT VAN-30-22.08	30	\$1,000	9/15/2024	11/15/2024							
ALL WORK ON PROJECT (INCLUDING WORK LISTED ABOVE)	60	PER C&MS 108.07	9/15/2024	11/30/2024							

REFER TO SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS: 849 DATED 1/18/13

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05, AND 105.02. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS

VARIOUS EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT ONE OFFICE IN LIMA, OHIO OR IN THE REFERENCE FILES.

ITEM 614, MAINTAINING TRAFFIC

ON US 30, A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 502 STRUCTURE FOR MAINTAINING TRAFFIC, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC, AND TEMPORARY SURFACES USING ITEMS 410 AND 614.

ON CR 101 (STRIPE RD.) & TR 197 (CONVERSE-ROSELM RD.), THE ROADWAYS ARE CLOSED. THE FIRST ITEMS OF REPAIR SHALL BE COMPLETED TO GET THESE ROADWAYS OPEN TO TRAFFIC. THE PERIODS FOR THIS WORK IS NOTED IN THE WINDOW CONTRACT TABLE ON SHEET 2. DISINCENTIVES SHALL BE ASSESSED IN THE AMOUNT NOTED IN THE WINDOW CONTRACT TABLE FOR EACH CONSECUTIVE CALENDAR DAY THE ROADWAYS REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. SEE THE WINDOW CONTRACT TABLE ON THIS SHEET FOR ADDITIONAL INFORMATION.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES OF US 30 SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED **HOLIDAYS OR SPECIAL EVENTS:**

NEW YEAR'S (OBSERVED) THANKSGIVING CHRISTMAS (OBSERVED) LABOR DAY

GENERAL/REGULAR ELECTION DAY (NOV) MEMORIAL DAY FOURTH-OFYULY (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS THE FOLLOWING SCHEDULE SHALL BE USED TO

EVENT FALLS. THE FOLLOWING SCHE DETERMINE THIS PERIOD:	NT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO ERMINE THIS PERIOD:							
DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC							
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY							
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY							
TUESDAY	12:00N MONDAY THROUGH 6 AM WEDNESDAY							

5 AM TUESDAY THROUGH TUESDAY (GEN./REG. ELECTION) 12 AM WEDNESDAY

WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY

THURSDAY 12:00N WEDNESDAY THROUGH

6:00 AM FRIDAY

THURSDAY 6 AM WEDNESDAY THROUGH (THANKSGIVING ONLY) 6 AM MONDAY

FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY

SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127). SEE THE LANE VALUE CONTRACT TABLE ON SHEET 2 FOR DETAILS AND DISINCENTIVES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 622 PORTABLE BARRIER, UNANCHORED

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT COLLISION REPAIR LOCATIONS NOTED IN THE PLANS AND AS DIRECTED BY THE ENGINEER AND THE STANDARD CONSTRUCTION DRAWINGS.

ITEM 622, PORTABLE BARRIER, UNANCHORED = 2,545 FT (VAN-30-14.02 = 920 FT & VAN-30-22.08 = 1,625 FT)

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I = 1.20 MILE

ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I = 4,200 FT

ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

THE FOLLOWING ARE AREAS OF PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A:

VAN-30-22.08 EB INSIDE SHOULDER (2,900 FT./SHOULDER)

THE FOLLOWING ESTIMATED QUANTITIES ARE BASED ON AN AVERAGE WIDTH OF 3 FEET AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A = 980 SY

REMOVAL OF PAVEMENT MARKINGS

AS PER C&MS SECTION 614.11.G., THE CONTRACTOR SHALL REMOVE AND COVER CONFLICTING PAVEMENT MARKINGS WITHIN THE WORK ZONES. THE CONTRACTOR SHALL COVER CONFLICTING MARKINGS PER C&MS 614.11.G.1.b. USING REMOVALABLE BLACKOUT TAPE TO THE SATISFACTION OF THE PROJECT ENGINEER. PAYMENT TO REMOVE/ COVER CONFLICTING MARKINGS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ESIGN AGENCY



ESIGNER KRH REVIEWER EJS 6/26/24 ROJECT ID 121872

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER

AN ESTIMATED QUANTITY FOR EACH LOCATION IS PROVIDED IN

TABLE 3, FOR REMOVAL OF PORTIONS OF MAIN MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849 DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING MAIN MEMBERS ACCORDING TO ITEM 849, STRAIGHTENING WORK PLAN. FLAME OR SAW CUT PORTIONS OF THE EXISTING MEMBERS USING A MECHANICAL GUIDE ACCORDING TO C&MS 513.12. PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE REMAINING CUT SURFACES OF THE EXISTING MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIAL). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS.

THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 202 - PORTIONS OF STRUCTURE REMOVED (MAIN MEMBERS), AS PER PLAN: POUND.

STEEL RESTRAINT OR PRELOAD LIMITS:

VAN-30-14.02 (STRIPE RD) EXISTING ASTM A36 - DO NOT SUBJECT ANY PART OF THE STRUCTURE TO A JACKING, PULLING OR RESTRAINING UNIT STRESS EXCEEDING 10,000 PSI (68.9 MPA)*

VAN-30-22.08 (CR 197)

EXISTING ASTM A588 - DO NOT SUBJECT ANY PART OF THE STRUCTURE TO A JACKING, PULLING OR RESTRAINING UNIT STRESS EXCEEDING 13,500 PSI (93.1 MPA)*

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS):

AN ESTIMATED QUANTITY FOR EACH LOCATION IS PROVIDED IN TABLE 2. FOR REMOVAL OF SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849. DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING SECONDARY MEMBERS ACCORDING TO ITEM 849, STRAIGHTENING WORK PLAN. FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN 1/8 INCH OF THE EXISTING MAIN MATERIAL USING A MECHANICAL GUIDE ACCORDING TO C&MS 513.12 PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS).

THE DEPARTMENT WILLINCLUDE ALL MATERIALS, TOOLS, LABOR, W EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 202 - PORTIONS OF STRUCTURE MEMBERS REMOVED (SEDONDARY MEMBERS), AS PER PLAN: POUND.

DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS.

ITEM 513 STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:

MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513. EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS. SUPPLY A COPY OF THE DRAWINGS. STAMPED, SEALED AND DATED, ACCORDING S1002, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN TABLES 2 AND 3. REPLACEMENT OF DAMAGED SECTIONS OF STEEL MEMBERS, MAIN AND SECONDARY, SHALL BE COMPLETED USING STEEL TYPES MATCHING THE EXISTING STEEL BEING REPAIR/REPLACED.

THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: POUND.

ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, DRILLING:

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AN ESTIMATED QUANITITY FOR EACH LOCATION IS PROVIDED IN TABLE 3, FOR DRILLING MAIN OR SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849, DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. DRILL 2 INCH DIAMETER HOLES AT BOTH ENDS OF EACH IDENTIFIED CRACK AS DIRECTED BY THE ENGINEER. GRIND THE HOLES SMOOTH ACCORDING TO C&MS 513.19

THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, DRILLING, EACH.

ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, COPE HOLES:

AN ESTIMATED QUANTITY FOR EACH LOCATION IS PROVIDED IN TABLE 3, FOR COPING MAIN MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849, DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. PROVIDE A, 2 INCH DIAMETER X 4 INCH LONG COPE ACCORDING TO PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

THE DEPARTMENT WILLINGLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 -STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, COPE HOLES: EACH.

GRIND THE HOLES SMOOTH ACCORDING TO C&MS 513.19.

ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN MEMBER, COMPLETE PENETRATION WELDING:

AFTER DAMAGED AREAS HAVE BEEN INSPECTED ACCORDING TO ITEM 849 DAMAGE ASSESSMENT. PREPARE THE DAMAGED MATERIAL FOR WELDING, PROVIDE RUNOFF TABS FOR ALL COMPLETE PENETRATION WELDS. PERFORMING COMPLETE PENETRATION WELDS ACCORDING TO C&MS 513 USING APPROVED ELECTRODES. PROCEDURES AND WELDERS. REMOVE RUNOFF TABS AND GRIND THE COMPLETED EDGES SMOOTH. GRIND THE COMPLETED WELDS SMOOTH AND FLUSH WITH THE ADJACENT SURFACES TO PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL. DO NOT OVER GRIND AS TO REDUCE THE MATERIAL THICKNESS OR WIDTH OF THE NEW OR EXISTING MATERIALS. PREPARE ALL REENTRANT CORNERS WITH A ONE INCH RADIUS. REMOVE WELDING, START AND STOP DISCONTINUITIES. RADIOGRAPHIC TEST THE FINISHED WELDS ACCORDING TO C&MS 513.25A AND SUBMIT COPIES OF THE REPORTS TO THE ENGINEER. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT....

THE DEPARTMENT WILLINGLUDE ALLYMATERIALS;

TOOLS; LABOR; EQUIPMENT; AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MISC.. REPAIR OF DAMAGED MAIN MEMBERS. COMPLETE PENETRATION WELDING: FOOT.

ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN OR SECONDARY MEMBERS, FILLET WELDING:

AFTER DAMAGED AREAS HAVE BEEN INSPECTED ACCORDING TO ITEM 849 DAMAGE ASSESSMENT. PREPARE THE DAMAGED MATERIAL FOR WELDING, PERFORMING $\frac{3}{16}$ OR $\frac{5}{16}$ WCH FILLET WELDS ACCORDING TO ITEM 513 USING APPROVED ELECTRODES, PROCEDURES AND WELDERS. WELD EACH SECONDARY MEMBER ACCORDING TO PLAN DETAILS. MAGNETIC PARTICLE INSPECT ALL FILLET WELDS ACCORDING TO C&MS 513.25B. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT.

THE DEPARTMENT WILLYNCLU'DE ALLYNATERIALS; TOOLS; L'ABOR; VVV EQUIPMENT; AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN OR SECONDARY MEMBERS, FILLET WELDING: FOOT.

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ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT):

1.0 DESCRIPTION

THIS ITEM CONSIST OF FIELD PAINTING STRUCTURAL STEEL PREVIOUSLY COATED WITH AN (UNKNOWN) EXISTING PAINT TO CORRECT DAMAGE BY COLLISION OR CORROSION. THIS WORK CONSISTS OF PERFORMING SURFACE PREPARATION AND APPLYING A PRIMER TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF (UNKNOWN) EXISTING PAINT SYSTEMS.

2.0 GENERAL

C&MS 514.05 THROUGH 514.10 AND 514.13.D APPLY UNLESS MODIFIED BY THESE NOTES.

3.0 WASHING EXISTING PAINTED SURFACES

CLEAN SURFACES TO BE COATED WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE. SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH CMS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS.

4.0 SURFACE PREPARATION

SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP 11, POWER TOOL CLEANING TO BARE METAL, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3; SSPC SP6, COMMERCIAL BLAST CLEANING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1; OR SSPC SP12 UHP WJ-4, ULTRAHIGH-PRESSURE WATER JETTING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 4. SUPPLY BLAST WATER CONTAINING A COMMERCIALLY AVAILABLE RUST INHIBITOR AT A DOSAGE THAT PREVENTS FLASH RUSTING FOR 12 HOURS AND DOCUMENTED AS ACCEPTABLE TO THE COATING'S MANUFACTURER. THE ENGINEER WILL USE THE SSPC-VIS 1, SSPC-VIS 3 OR SSPC-VIS 4 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO ROUGHEN A MINIMUM OF ½ INCH OF THE EXISTING PAINT. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO C&MS 514.13.D. ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A 2 INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

5.0 FIELD PAINTING

APPLY THE PRIME COAT OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN C&MS 708.02, ACCORDING TO C&MS 514.15, 514.16, 514.17, 514.19 AND 514.20 TO THE CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PRIME COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. DO NOT APPLY THE INTERMEDIATE OR FINISH COAT. THE PRIME COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF C&MS 514.20. **APPLY PAINT AS FOLLOWS:**

- A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING UNKNOWN PAINT SYSTEM ROUGHENED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COURSE.
- **B.** APPLY CAULK AFTER PRIMING
- **C.** APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.
- **D.** APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME, INTERMEDIATE, AND FINISH COATS WITH A BRUSH. IN LIEU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

(CONTINUED ON SHT. Z)

OFFICE OF **STRUCTURAL ENGINEERING**

REVISION DATE 01-21-2021

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DESIGN AGENCY

ESIGNER KRH REVIEWER EJS 06/26/24 ROJECT ID 121872 SUBSET

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6.0 MEASUREMENT

PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN BY THE NUMBER OF SQUARE FEET OF STRUCTURAL STEEL PAINTED.

THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS.

7.0 BASIS OF PAYMENT

ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:
THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT
FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY
PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL
BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR
PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER
CALCULATIONS INDICATING THE TOTAL SQUARE FEET
OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE
CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE
TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL.

THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

ITEM UNIT

DESCRIPTION

14 SQUARE FEET

FIELD PAINTING OF DAMAGED STRUCTURAL STEEL - THREE COAT, AS PER PLAN

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE,
AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE PERFORM REPAIRS DEFINED IN TABLE 3, TABLE 5 OR THE HEAT STRAIGHTENING PLAN.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07.

THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS NECESSITATED BY THE JACKING OPERATION. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS? THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN:

PERFORM CONCRETE REPAIR BY EPOXY INJECTION ON ALL CRACKS ALONG THE HAUNCH SURFACES ADJACENT AND ABOVE THE TOP FLANGE OF THE DAMAGED BEAMS INDICATED IN THE PLANS. THE PRIMARY PURPOSE OF THS WORK IS TO REPAIR THE AREAS OF SEPARATION BETWEEN THE TOP FLANGES OF THE DAMAGED BEAMS AND HAUNCHES AS SHOWN ON SHEETS 9, 11-12, & 15...

IN ADDITION, AND PRIOR TO THE PERFORMING THE CONCRETE REPAIR BY EPOXY INJECTION, REMOVE DELAMINATED, LOOSE, OR DISINIGRATED CONCRETE IN THE HAUNCH AREAS INDICATED IN THE PLANS BY METHODS THAT WILL NOT CAUSE ADDITIONAL DAMAGE TO THE HAUNCH PER THE APPROVAL AND TO THE SATISFACTION OF THE PROJECT ENGINEER.

PAYMENT FOR THIS WORK WILL BE AT THE UNIT PRICE PER FOOT FOR ITEM 512 – CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN. THE DEPARTMENT WILL MEASURE THIS WORK AS LINEAR FEET ALONG THE BEAM ADJACENT TO WHERE CRACK REPAIRS ARE ACTUALLY COMPLETED.

OFFICE OF STRUCTURAL ENGINEERING

REVISION DATE **01-21-2021**

STRUCTURES VAN-30-14.02 & VAN-30-22.07
COLLISION REPAIR AND HEAT
GENERAL NOTES

DESIGN AGENCY



DESIGNER
KRH
REVIEWER
EJS 06/26/24
PROJECT ID
121872
SUBSET TOTAL
2 2

ESTIMATED QUANTITIES (VAN-30-14.02) - SFN: 8100667 ITEM EXTENSION TOTAL ABUT. PIERS SUPER. GEN SEE SHEET UNIT **DESCRIPTION** LB PORTIONS OF STUCTURE REMOVED, AS PER PLAN (MAIN MEMBERS) 202 12 11501 6 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS) 11501 453 *453* 512 10601 FT CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN LB STRUCTURAL STEEL MEMBERS LEVEL UF, AS PER PLAN 513 10201 465 513 EACH STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, DRILLING 95030 EACH STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, COPE HOLES 513 95030 513 95000 STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN MEMBERS, COMPLETE PENETRATION WELDING 513 FT STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN OR SECONDARY MEMBERS, FILLET WELDING 95000 514 SQ FT | FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) 6-7 20001 369 516 LS LUMP JACKING & TEMPORARY SUPPORT OF STRUCTURE, AS PER PLAN 47001 LS 10000 LUMP DAMAGE ASSESMENT LS 849 10500 LUMP | SURFACE PREPARATION LS 10600 HOUR REPAIRING DAMAGED MEMBERS BY GRINDING 3 LUMP STRAIGHTENING DAMAGED MEMBERS

ABOVE TOTALS CARRIED TO GENERAL SUMMARY

				ESTIMATED QUANTITIES (VAN-30-22.08) - SFN: 8104379					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN	SEE SHEET
					1				
202	11501	30	LB	PORTIONS OF STUCTURE REMOVED, AS PER PLAN (MAIN MEMBERS)			30		6
202	11501	1647	LB	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)			1647		6
512	10601	78	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN	1		78		7
312	10001	70	Г	CONCRETE REPAIR OF EPOXY INJECTION, AS PER PLAIN	1		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		/
513	10201	1677	LB	STRUCTURAL STEEL MEMBERS LEVEL UF, AS PER PLAN		8	1664)	6
513	95030	50	EACH	STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, DRILLING			50		6
513	95030	50	EACH	STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, COPE HOLES			50		6
513	95000	18	FT	STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN MEMBERS, COMPLETE PENETRATION WELDING			18		6
513	95000	22	FT	STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN OR SECONDARY MEMBERS, FILLET WELDING			22		6
514	20001	1422	SQ FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (ONE COAT)			1422		6-7
516	47001	LS	LUMP	JACKING & TEMPORARY SUPPORT OF STRUCTURE, AS PER PLAN				LS	7
849	10000	LS	LUMP	DAMAGE ASSESMENT			LS		
849	10500	LS	LUMP	SURFACE PREPARATION			LS		
849	10600	3	HOUR	REPAIRING DAMAGED MEMBERS BY GRINDING			3		
849	10700	LS	LUMP	STRAIGHTENING DAMAGED MEMBERS			LS		

ABOVE TOTALS CARRIED TO GENERAL SUMMARY

VAN-30-14.02/22.07

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01-21-2021

STRUCTURE VAN-30-14.02 (SFN 8100667)
COLLISION REPAIR, HEAT STRAIGHTENING
PLAN AND BEAM DETAILS

DESIGN AGENCY



DESIGNER KRH REVIEWER EJS 06/26/24 PROJECT ID 121872 SUBSET

CP WELD,

SMOOTH

AND TEST

MAX. GAP $\stackrel{1}{\models}$ $\frac{1}{16}$ "

NEW WEB P

COLLISION REPAIR WC1-4

SEE NOTES 6 THROUGH 11

-EXISTING

WEB

EXISTING

FLANGE

GRIND

OFF REMOVAL LIMITS

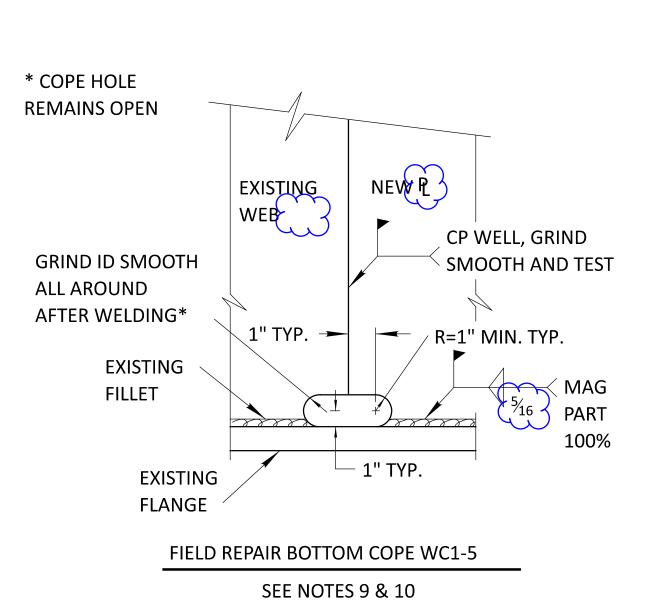
WITHOUT COPE HOLES

REMOVAL LIMITS

NEAR AND FAR

SIDE OF NEW P.

MAG PART 100%



TEMPORARY

STIFFENER OR BRACE

PREP EXISTING MEMBER

EXISTING

WEB

FLANGE

1. REMOVE SECONDARY MEMBERS AS NECESSARY IF APPLICABLE. CAREFULLY GRIND EXISTING WELDS FLUSH. DO NOT DAMAGE WEB OR FLANGE. PROVIDE SHIELDING AS NECESSARY

2. MARK REMOVAL AREA

3. DRILL 2 OR 4 CORNER HOLES 1" DIAMETER

- 4. SAW OR FLAME CUT TO REMOVE DAMAGED WEB PLATE USING A MECHANICAL GUIDE
- 5. PREP EXISTING MEMBER, BEVEL EDGES FOR COMPLETE PENETRATION AND FILLET WELDS
- 6. CUT AND BEVEL NEW PLATES, FOR COMPLETE PENETRATION AND FILLET WELDS
- 7. CHECK FIT OF NEW PLATES, NO GAPS EXCEEDING 2"
- 8. PERFORM WELDING
- 9. GRIND WELDS SMOOTH AND PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 mil
- 10. GRIND THE INSIDE SURFACE OF ALL DRILLED CORNER HOLES OR BOTTOM COPES TO
- A 1" RADIUS AND PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 mil
- 11. PERFORM NDT TESTS ACCORDING TO C&MS 513.25A
- 12. REPAIR SECONDARY MEMBERS IF APPLICABLE. MAKE CONNECTIONS TO MATCH EXISTING **DETAILS UNLESS MODIFIDED HEREIN**

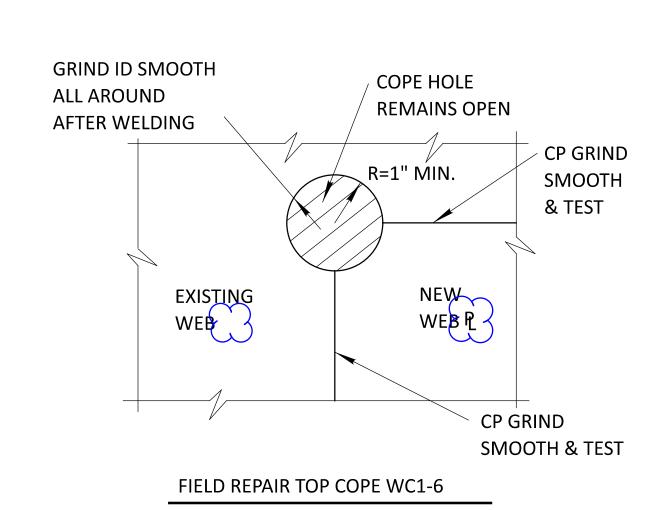
CAUTION: PROVIDE ADDITIONAL TEMORARY OR PERMANENT STIFFENERS

	TABLE #3 513 REPAIRS												
DAMAGED MEMBER AREA No. LINE No. A PIER				REPAIR DETAIL TYPE	DRILLING HOLES	COPE HOLES	STEEL MEMBER LEVEL UF	CP WELD (FT)	FILLET WELD				
ANEA NO.	LINE NO. A	PIEN	DIM C FT	ITPE	EACH	EACH	LEVEL OF	FT	FT				
WC1 (1)	4	SOUTH PIER FACE	12	WC1	4	4	12.4	2	1.7				

SEE PARTIAL FRAMING PLAN FOR DIMENSION C

*NOTE:

WC1 PLATE DIMENSIONS LENGTH = 10" HEIGHT = 7" THICKNESS = 5/8"



SEE NOTES 9 & 10

14.02/22.07 VAN-30(SFN 8100667) CRACKS WC1 (SFN **DETAILS** WEB VAN-30-14.02 REPAIR OF CRACKING RUCTURE NOISITIC ST

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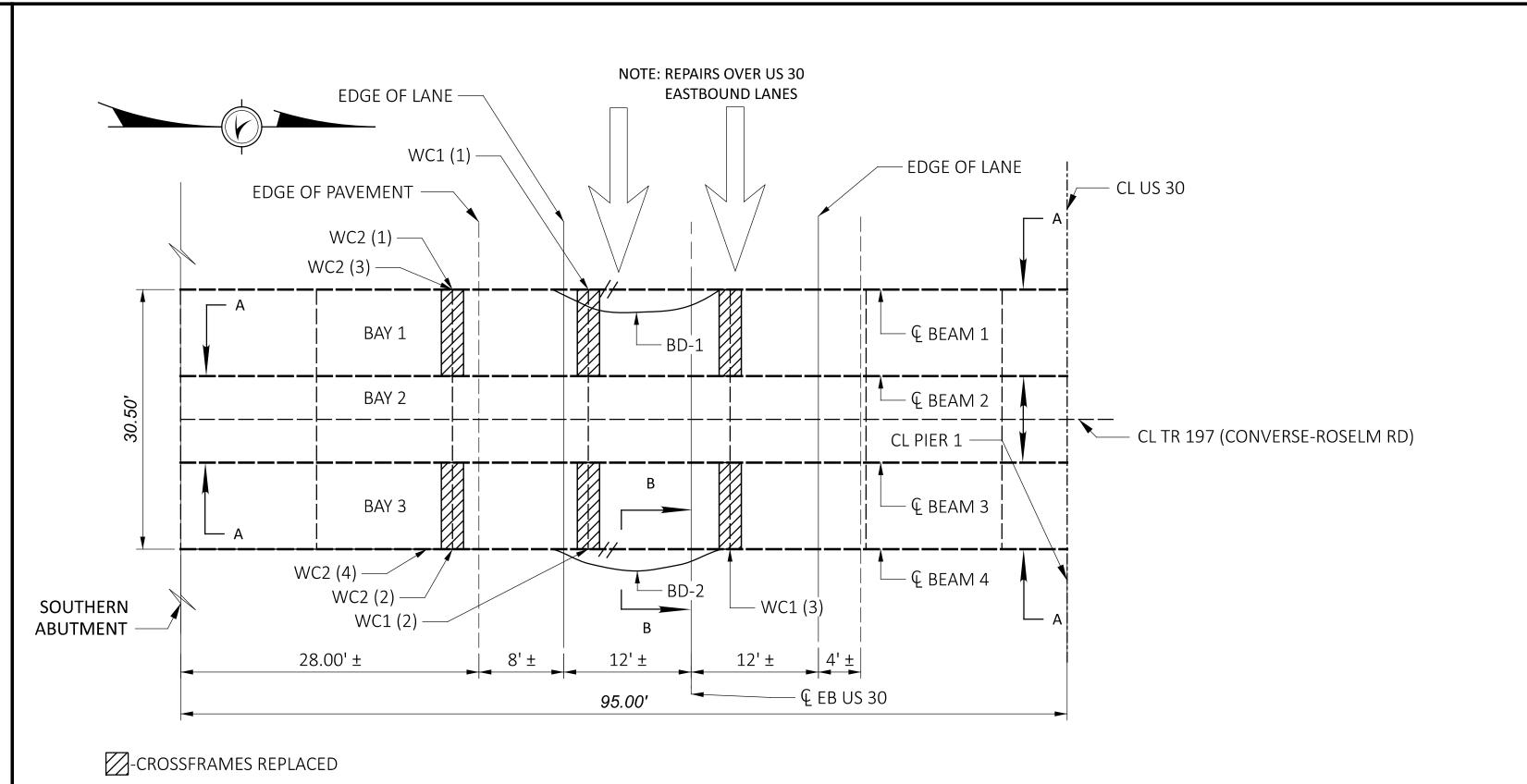
DESIGNER KRH REVIEWER EJS 06/26/24 PROJECT ID 121872 SUBSET

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PARTIAL SUPERSTRUCTURE STEEL FRAMING PLAN

G WEB BUCKEL -----CENTER LINE OFFSET

N- NUMBER OF CROSSFRAME BRACES COUNTED FROM THE PIER OR ABUTMENT IDENTIFIED IN TABLE

REMOVE ACCORDING TO ITEM 202-PORTIONS OF SECONDARY

MEMBERS REMOVED, AS PER PLAN. REPLACE BY MATCHING

STRUT 3S

CROSS FRAME SECTION

SECONDARY MEMBER BAY No. 3

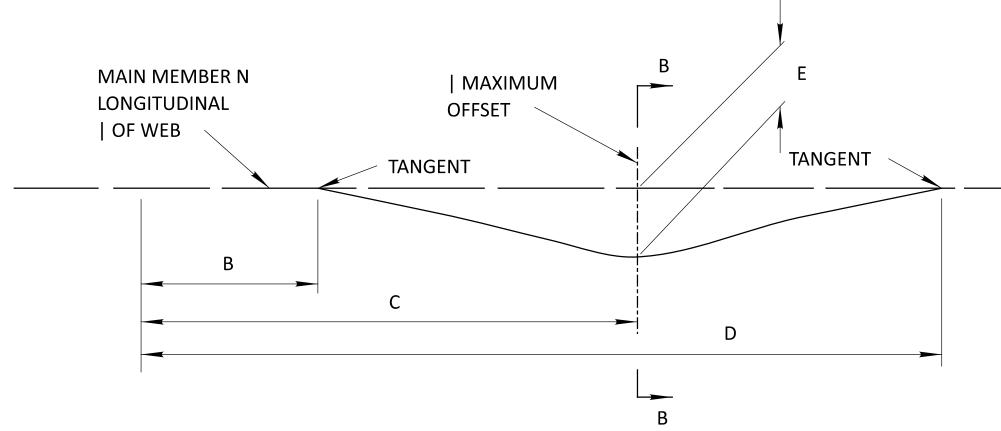
EXISTING DETAIL.

TABLE #2 DAMAGED SECONDARY MEMBER TO BE REPLACED									
CROSSFRAME BAY #	PIER/ABUT.	N	1D	2D	3S				
BAY 1	S ABUT. FACE	3	1	1	1				
BAY 1	S ABUT. FACE	4	1	1	1				
BAY 1	S ABUT. FACE	2	1	1	1				
BAY 3	S ABUT. FACE	2	1	1	1				
BAY 3	S ABUT. FACE	3	1	1	1				
BAY 3	S ABUT. FACE	4	1	1	1				

SECTION B-B

NEGATIVE E VALUES ARE BENT LEFT NEGATIVE F VALUES ARE BENT DOWN NEGATIVE G VALUES ARE BENT LEFT

ORIENTATION NOTE ABUTMENTS AND PIERS ARE NUMBERED IN THE CARDINAL DIRECTION (FROM SOUTH TO NORTH OR WEST TO EAST). BEAMS ARE NUMBERED FROM LEFT TO RIGHT WHEN FACING IN THE CARDINAL DIRECTION. BAYS ARE NUMBERED TO MATCH THE MAIN MEMBERLINE NUMBER TO THE LEFT OF THE CROSSFRAME BAY WHEN FACING IN THE CARDINAL DIRECTION.



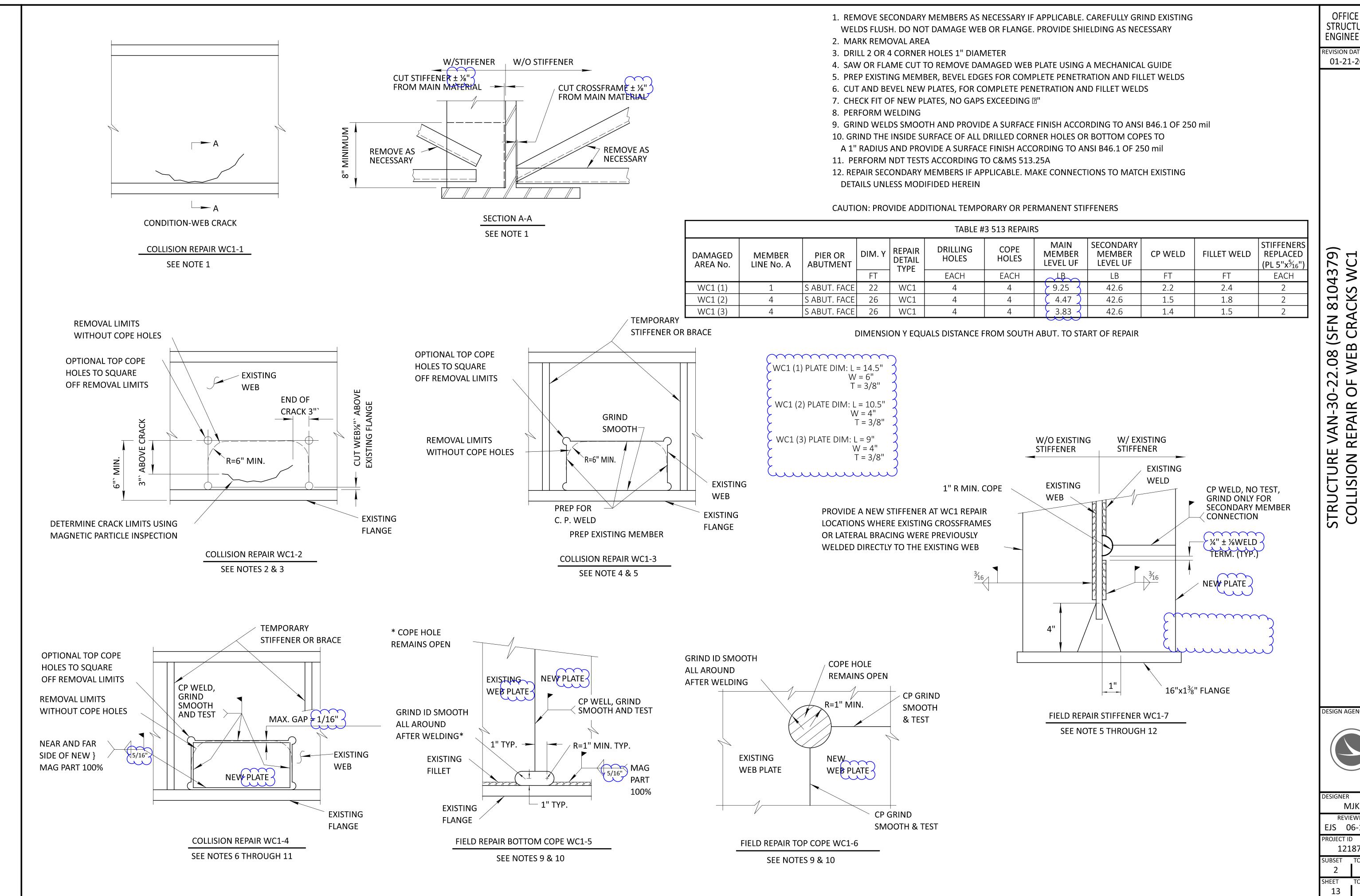
EXISTING STRUCTURE: VAN-30-22.08 ROUTE ON STRUCTURE: TR 197 (CONVERSE-ROSELM RD) ROUTE BELOW STRUCTURE: US 30 TYPE: CONTINUOUS STEEL GIRDER W/ REINF. CONC. DECK AND SUBSTRUCTURE SPANS: 194'-6" ROADWAY WIDTH: 32'-0" c/c SKEW: NONE **ALIGNMENT: TANGENT** SUPERELEVATION: NONE YEAR BUILT: 1978 NUMBER OF BEAMS: 4 STEEL TYPE: ASTM A588 "WEATHERING" STEEL - UNIT STRESS = 27 KSI PAINT TYPE: OZEU PAINT DATE: 8-96

TABLE #1 DAMAGED MAIN MEMBERS TO BE HEAT STRAIGHTENED											
DAMAGE AREA No.	MEMBERLINE No.	PIER	В	С	D	Е	F1	F2	G		
			FT	FT	FT	IN	IN	IN	IN		
BD1	1	SOUTH ABUT. FACE	22	47	58	2	¹³ / ₁₆	-1 1/4	¹³ / ₁₆		
BD2	4	SOUTH ABUT. FACE	26	47	68	3	1 ¹ / ₁₆	-2 ½ ₁₆	4		



DESIGN AGENCY

DESIGNER MJK REVIEWER EJS 06-17-24 PROJECT ID 121872 SUBSET



14.02/22.07

30

OFFICE OF **STRUCTURAL ENGINEERING**

EVISION DATE

01-21-2021

9 8104379 CKS WC1 CRA 2.08 (SFN WEB OF 7

DETAILS

CRACKING

REPAIR

NOISITION

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DESIGNER MJK REVIEWER EJS 06-18-24 PROJECT ID 121872 SUBSET

OFFICE OF STRUCTURAL ENGINEERING

REVISION DATE 01-21-2021

(SFN 8104379) CRACKS WC2 **DETAILS** WEB **REPAIR OF** CRACKING

DESIGN AGENCY



DESIGNER MJK REVIEWER EJS 06-18-24

PROJECT ID

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