7.89

n 08-JAN-2009 12:06PM

M-91-7.89

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

PROJECT LOCATION SLM: 7.89

SUM-91-7.89

CITY OF MONROE FALLS
SUMMIT COUNTY

INDEX OF SHEETS:

TITLE SHEET
MAINTENANCE OF TRAFFIC
GENERAL SUMMARY
STRUCTURES (OVER 20')

2-6 7 8-14

2008 SPECIFICATIONS

PROJECT DESCRIPTION

PROJECT EARTH DISTURBED AREA:

NOTICE OF INTENT EDA:

MINOR MAINTENANCE WORK TO STRUCTURE SUM-91-0789,

GUARDRAIL REPLACEMENT, AND OTHER MINOR WORK.

INCLUDING AN ASPHALT OVERLAY, SIDEWALK REPLACEMENT,

ESTIMATED CONTRACTOR EDA: N/A (MAINTENANCE PROJECT)

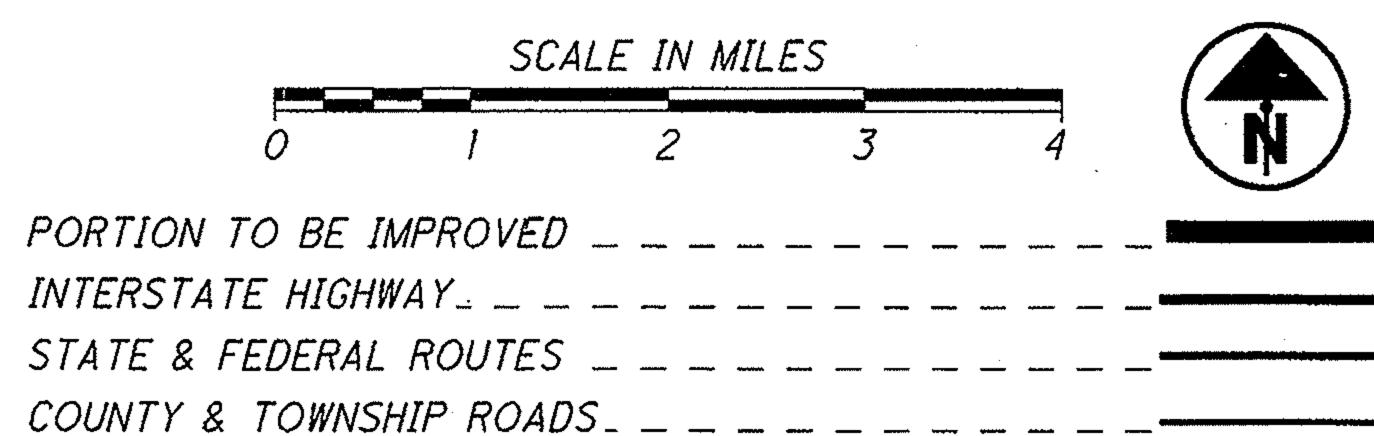
N/A (MAINTENANCE PROJECT)

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DE-TOURS WILL BE PROVIDED AS INDICATED ON SHEET 4.

LOCATION MAP

LATITUDE: W41°08'32" LONGITUDE: W81°26'20"



DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION:

URBAN PRINCIPAL ARTERIAL

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG

1-800-362-2764 (TOLL FREE)

NON-MEMBERS

MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988

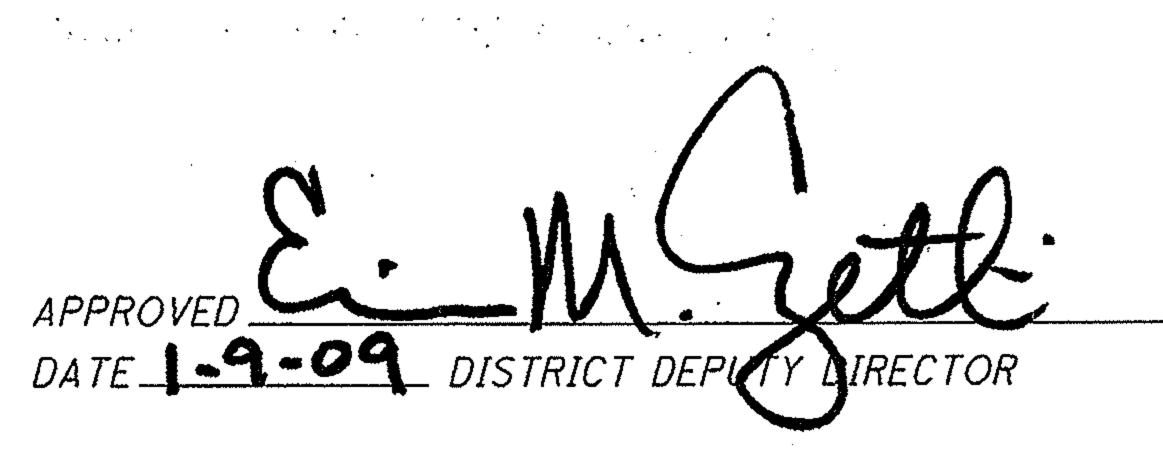
PLAN PREPARED BY:

ODOT --- DISTRICT 4 PRODUCTION

2088 SOUTH ARLINGTON ROAD

AKRON, OHIO 44306

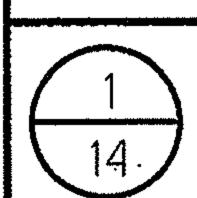
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	BP-4.1	7/16/04	MT-105.11	10/18/02				832	4/25/06
						·		843	4/18/03
ENGINEERS SEAL:	DM-4.3	7/19/02	TC-41.20	1/19/01				848	4/15/05
LIVOINCENS SEAL.	DM-4.4	7/19/02	TC-42.20	7/16/04					
TAXABLE SESSION OF THE PARTY OF			TC-52.10	1/19/07					
HILL OF OHILL	GR-1.1	7/16/04	TC-52.20	1/19/07					
THOMAS	GR-2.1	1/16/04			·				
POWELL	GR-3.1	1/19/07					•		
E-61151	GR-3.4	1/20/06		•			•	C	PECIAL
0.2	GR-5.2	1/16/04					•	1	
STER	GR-5.3	1/16/04			-			PAC	VISIONS
WAL ENGINE	GR-6.1	4/18/03			•				
GNEDS	- MT-97.10	9/05/06					,		
TE: 1-8-09	MT-101.60	9/20/06			•				



APPROVED Sames & Beauty Sh.

DATE 1-16-09 DIRECTOR, DEPARTMENT OF

TRANSPORTATION



THE FOLLOWING ITEMS OF WORK ARE REQUIRED TO BE COMPLETED DURING THE TIME WHEN THE DETOUR IS IN EFFECT. (SEQUENCE TO BE DETERMINED BY THE CONTRACTOR):

- REMOVE AND REPLACE EXISTING ASPHALT CONCRETE OVERLAY - REPAIR PORTIONS OF THE DECK WITH FULL DEPTH REPAIR
- REMOVE AND REPLACE GUARDRAIL

MAINTENANCE OF TRAFFIC

IN NOTE #2 BELOW.

ADDITIONAL NOTE HEREIN.

DIRECTED BY THE ENGINEER.

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THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC

ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH

FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST

REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

1. A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL

PAVEMENT DURING CONSTRUCTION OF THE WORK EXCEPT WHEN

2. A MINIMUM OF 2 LANES OF TRAFFIC SHALL BE MAINTAINED

3. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE

EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

4. CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL

DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS

THAT ARE IN OPERATION ONE-HALF HOUR AFTER SUNSET

LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES

OR ONE HALF-HOUR BEFORE SUNRISE. ALL NIGHTTIME

AT A MAXIMUM SPACING OF FIFTY (50) FEET. WEIGHTED

CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THE

5. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN

WATCHERS AND INCIDENTALS RELATED THERETO.

AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS,

SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS,

6. A QUANTITY OF 15 CU. YDS. OF 614 ASPHALT CONCRETE

FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN

MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS

7. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A

SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL

EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH

LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE

CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE

JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

EXCEPT WHEN THE DETOUR IS IN EFFECT.

AT ALL TIMES BETWEEN 6:00AM AND 9:00PM MONDAY THROUGH

FRIDAY AND BETWEEN 6:00AM AND 6:00PM SATURDAY AND SUNDAY.

(330) 786-2211 AND THE CITY OF MUNROE FALLS (330)-688-7491,

THE DETOUR IS IN EFFECT AND EXCEPT FOR THE RESTRICTIONS

BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED

- APPLICATION OF TYPE 3 WATERPROOFING
- APPLICATION OF HOT APPLIED JOINT SEALER
- PATCHING OF CONCRETE BRIDGE DECK

DETOUR NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND THE CITY OF MUNROE FALLS (330-688-7491) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

DETOUR DURATION

THE MAXIMUM LENGTH OF TIME FOR THE DETOUR ROUTE TO BE IN EFFECT SHALL BE 1 (ONE) WEEKEND (9:00PM FRIDAY TO 6:00AM MONDAY), CONSTRUCTION WORK MAY BE PERFORMED BEFORE AND AFTER THE DETOUR LIMITATION DATES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE CONSTRUCTION WORK WITHIN THE DETOUR LIMITATION TIME. THE FAILURE OF THE CONTRACTOR TO MEET THE DETOUR LIMITATION DATES WILL CAUSE SEPARATE DISINCENTIVES OF \$750.00 PER CALENDAR DAY OF OVERRUN OF DETOUR LIMITATION TIME TO BE ASSESSED.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.

> SR-91 WILL BE CLOSED (date) FOR 2 DAYS INFO: 330-786-2211

> > W20-H13-60

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON THE NEXT SHEET. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

PERMITTED DETOUR DATES

THE CONTRACTOR IS ONLY PERMITTED TO CLOSE SR-91 ON ONE OF THE FOLLOWING 2 WEEKENDS.

MAY 30-31, 2009 JUNE 6-7, 2009

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REP-RESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISS-ING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

HOLIDAY LANE CLOSURES

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPENED TO TRAFFIC AND ALL SIGNALS IN OPERATION DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS NEW YEARS MEMORIAL DAY FOURTH OF JULY LABOR DAY THANKSGIVING

DAY OF THE WEEK TIMES ALL LANES MUST BE OPEN TO TRAFFIC SUNDAY 12:00N FRIDAY THROUGH 12:00N MONDAY MONDAY 12:00N FRIDAY THROUGH 12:00N TUESDAY TUESDAY 12:00N MONDAY THROUGH 12:00N WEDNESDAY WEDNESDAY 12:00N TUESDAY THROUGH 12:00N THURSDAY THURSDAY 12:00N WEDNESDAY THROUGH 12:00N MONDAY FRIDAY 12:00N THURSDAY THROUGH 12:00N MONDAY SATURDAY 12:00N FRIDAY THROUGH 12:00N MONDAY

THERE SHALL NOT BE ANY EXTENSIONS DUE TO WEATHER OR MATERIAL DELAYS WHATSOEVER.

SHALL THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, DISINCENTIVES OF \$750.00 SHALL BE ASSESSED TO THE CONTRACTOR FOR EACH CALENDAR DAY THAT THE LANES REMAIN CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

WEIGHTED CHANNELIZERS

THE WEIGHTED CHANNELIZER SHALL BE PREDOMINATELY ORANGE IN COLOR AND SHALL BE MADE OF A LIGHTWEIGHT, FLEXIBLE. AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THEY MAY HAVE A "HANDLE" OR LIFTING DEVICE WHICH EXTENDS ABOVE THE 42 INCH MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZER SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHAN-NELIZER SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

ON FREEWAYS AND MULTILANE HIGHWAYS: USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATION, GENERALLY TWELVE HOURS OR LESS, FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK WITHIN THE ABOVE NOTED TIME PERIOD, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOL-LOWING DAY OR NIGHT. ANY LANE CLOSURE USING CHAN-NELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOURS, SHALL REQUIRE THE USE OF DRUMS OR BARRIERS.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE "TANGENT AREA". THE "TANGENT AREA" IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS.

ON OTHER HIGHWAYS:

THERE ARE NO DURATIONS OF WORK RESTRICTIONS FOR USE OF WEIGHTED CHANNELIZERS ON ALL OTHER TYPES OF HIGHWAYS. DAY OR NIGHT. ON THESE ROADWAYS THE WEIGHTED CHAN-NELIZER MAY BE USED IN THE TRANSITION TAPERS AS WELL AS IN THE TANGENT AREAS, DAY OR NIGHT.

MAXIMUM SPACING OF THE WEIGHTED CHANNELIZER SHALL BE

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS, ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

ALTERNATE MAINTENANCE OF TRAFFIC PLANS

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ODOT DISTRICT CONSTRUCTION ENGINEER.

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ADEQUATE SIGNING BOTH UPSTREAM AND DOWNSTREAM SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR. THE FOLLOWING TYPE SIGNS ARE CONSIDERED TO BE MINIMUM TREATMENT.

- 1. APPROXIMATELY ONE-QUARTER MILE UPSTREAM, ADVANCED WARNING TYPE SIGNS ON BOTH BANKS;
- 2. APPROXIMATELY 300 FEET UPSTREAM, SIGNS SPECIFYING ACTIONS REQUIRED OF CANOEIST ON BOTH BANKS;
- 3. APPROXIMATELY ONE-OUARTER MILE DOWNSTREAM, ADVANCE WARNING TYPE SIGNS ON BOTH BANKS; AND
- 4. APPROXIMATELY 300 FEET DOWNSTREAM, SIGNS SPECIFYING ACTIONS REQUIRED OF CANOEIST OF BOTH BANKS.

THE ABOVE SIGNING SHALL BE MOUNTED IN SUCH A WAY AS TO BE A MINIMUM OF 4 FEET ABOVE THE WATER LEVEL, UNOBSTRUCTED BY TREE BRANCHES, AND PROPERLY ANGLED FOR MAXIMUM VISIBILITY FROM THE MAIN CLEAR CHANNEL. THE METHOD OF SUPPORTING THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. UPON COMPLETION OF THE PROJECT, THE SIGNS AND SUPPORT SYSTEMS SHALL BE COMPLETELY REMOVED FROM THE RIVER CHANNEL. THE CONTRACTOR SHALL NOTIFY LOCAL CANOE LIVERIES USING THIS PORTION OF THE RIVER AT LEAST 10 DAYS PRIOR TO ANY CHANGES AFFECTING CANOE TRAFFIC.

PORTAGE TRAILS IF USED SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR WITH THE LEAST POSSIBLE DISTURBANCE TO THE SURROUNDING AREA. THE TRAIL SHALL BE ADEQUATELY MARKED IN BOTH DIRECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE RIGHT-OF-WAY FOR THE PORTAGE TRAILS IF REQUIRED.

IN THE EVENT PIPES ARE USED TO DIVERT OR CARRY RIVER WATER, BOTH THE INLET AND OUTLET ENDS SHALL BE ADEQUATELY PROTECTED BY GRATES OR FENCE SO THAT PEOPLE OR CANOES ARE NOT DRAWN THROUGH OR HELD BY THEM.

WORK ABOVE THE BIKE AND HIKE TRAIL

DURING CONSTRUCTION, BIKE AND HIKE TRAIL TRAFFIC
WILL BE RE-ROUTED TO CROSS SR-91 INSTEAD OF CROSSING
UNDER THE BRIDGE. WHEN WORKING AT NIGHT, THE FLAGGERS
WILL ASSIST THE CROSSING TRAFFIC. ALL COSTS ASSOCIATED
WITH RE-ROUTING THE TRAFFIC WILL BE INCLUDED IN THE
LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC.

PRIOR TO CLOSING THE BIKE AND HIKE TRAIL UNDER THE BRIDGE, THE CONTRACTOR WILL NOTIFY THE METROPARKS SERVING SUMMIT COUNTY, PAUL WILKERSON, 330-867-5511, AT LEAST 18 DAYS IN ADVANCE OF THE CLOSURE.

ITEM 642 - EDGE LINE ITEM 642 - CENTERLINE

THESE ITEMS WILL BE USED ON THE SURFACE COURSE OF STRUCTURE SUM-91-0789. PLACE PERMANENT STRIPING TO MATCH LOCATIONS OF EXISTING STRIPING.

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ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR M4-10L-48 F #

LEGEND

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DETOUR M4-8-24

M1-5-24-2

4

M5-1L-21

DETOUR

M4-8-24

M1-5-24-2

M6-1L-21

ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR M4-10R-48

ON TYPE III BARRICADE

NOTE: REFER TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 6H-8 (TYPICAL APPLICATION 8), FOR SIGN SPACING.

DETOUR 1500 FT

W20-2-36

DETOUR

M4-8-24 NORTH

M3-1-24

M1-5-24-2

DETOUR

M4-8-24

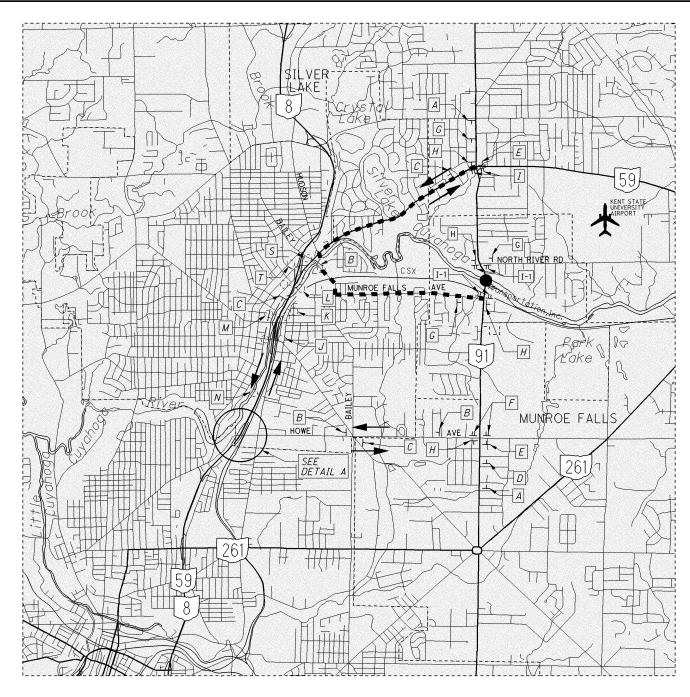
SOUTH M3-3-24

M1-5-24-2

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BRIDGE OUT MILES AHEAD LOCAL TRAFFIC ONLY

R11-3B-60



DETOUR PLAN FOR SR-91

CLOSE AS PER STD. DWG. MT-101.60

OFFICIAL DETOUR ROUTE: HOWE AVE / SR-8 & SR-59 / SR-59

LOCAL ALTERNATE ROUTE: MUNROE FALLS AVE / BAILEY RD / HUDSON DR / SR-59

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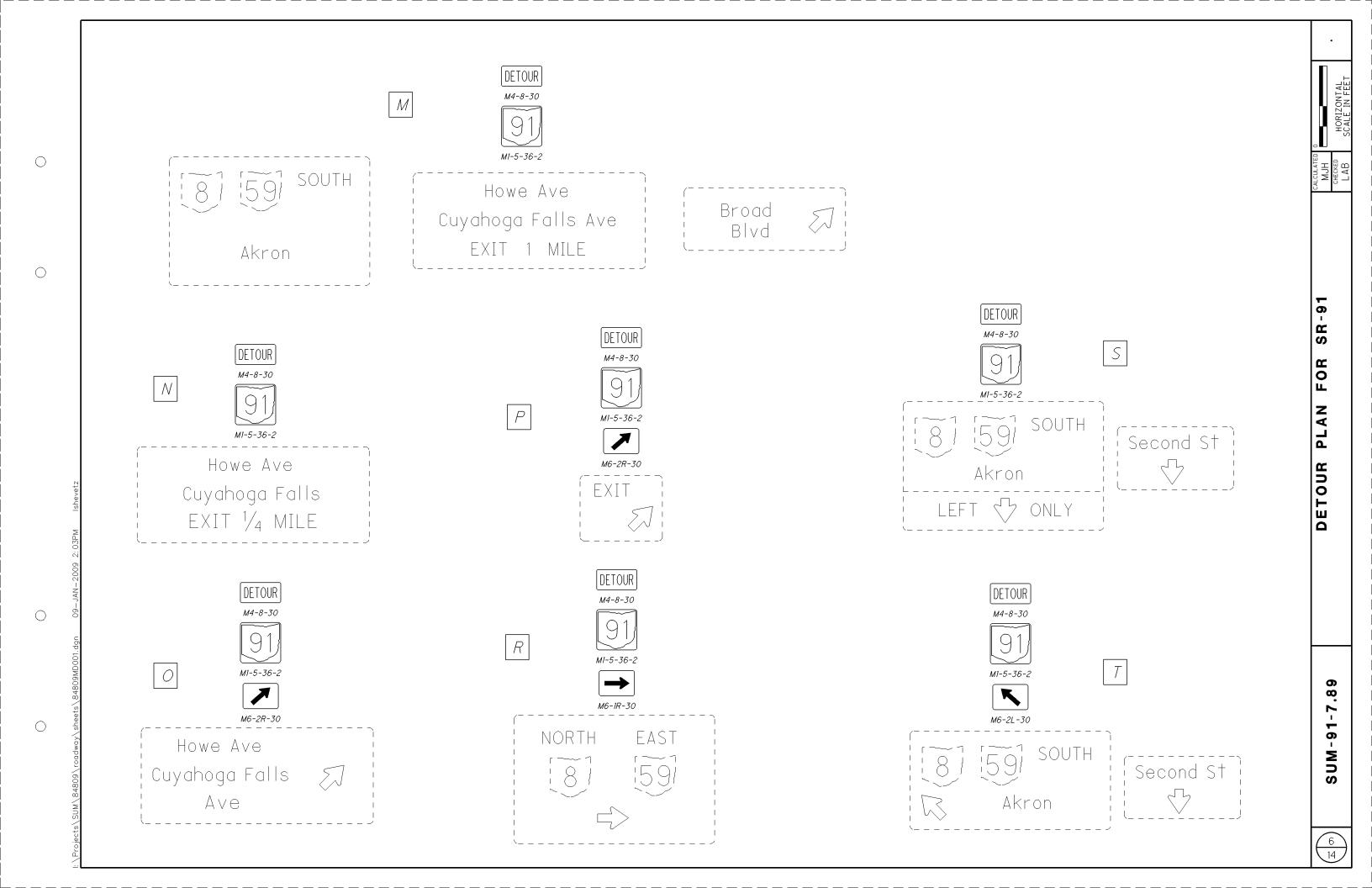








SUM-91-7.89



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GR-1.1 DATED/REVISED 7-16-04 DATED/REVISED 1-16-04 GR-2.1

GR-3.1 DATED/REVISED 1-19-07

GR-3.4 DATED/REVISED 1-20-06

GR-5.2 DATED/REVISED 1-16-04 GR-5.3 DATED/REVISED 1-16-04

GR-6.1 DATED/REVISED 4-18-03

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

DATED 4-18-03

DATED 4-15-05

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN STRESSES

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I. MISCELLANEOUS STEEL - ASTM A709 GRADE 36 - MINIMUM YIELD STRENGTH 36,000 P.S.I. ALUMINUM PIPE RAIL - ASTM B241, ALLOY 6061

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 CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAM-INATION OF THE EXISTING STRUCTURE. HOWEVER, THE DE-PARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS ARE AVAILABLE FROM ODOT DISTRICT 4 OFFICE.

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED. IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS). THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)

OGPUPS 1-800-925-0988 ODOT 330-786-3145 KEN GREENE

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T ATTN: BEN MILLER 50 W. BOWERY ST. 6TH FLOOR AKRON, OH 44308 330-384-2237 330-384-9866 FAX

DOMINION EAST OHIO GAS ATTN: GEORGE TURNER, JR. SPRINGSIDE PLACE 320 SPRINGSIDE DRIVE SUITE 320 AKRON. OH 44333 330-664-2495

888-694-8299 FAX

SUMMIT COUNTY DEPT. OF ENVIRONMENTAL SERVICES AKRON, OH 44311 ATTN: DAVID MARQUARD 2525 STATE ROAD CUYAHOGA FALLS, OH 44223 330-926-2407 330-926-2471 FAX

CITY OF MUNROE FALLS (WATER DEPT.) 43 MUNROE FALLS AVENUE MONROE FALLS, OH 44262 330-688-7491

OHIO EDISON ATTN: STEVE VANCHOFF 1910 W. MARKET STREET BUILDING 1 AKRON, OH 44313 330-384-4750 330-384-4723 FAX

TIME WARNER CABLE ATTN: JEFF ROLAND 530 SOUTH MAIN ST. SUITE 1741 330-630-7958

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DECK GRATING, RAILING, AND NON-SKID PLATE SHALL BE REMOVED IN SUCH A MANNER AS TO ALLOW RE-USE OF THE SIDEWALK SUPPORT BEAMS, INCLUDING THE 7" X 12" X1/2" ANCHOR P.

PROPOSED WORK

- REMOVE AND REPLACE SIDEWALK
- REMOVE AND REPLACE EXISTING ASPHLAT CONCRETE OVERLAY
- PATCH ALL VISIBLY UNSOUND AREAS OF BRIDGE DECK
- REPAIR AREA OF THE DECK WITH FULL DEPTH REPAIR AT THE REAR ABUTMENT
- PATCH OUTSIDE FACE OF CURB
- PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE
- PAINT RIGHT OUTSIDE FASCIA BEAM, SIDEWALK SUPPORTS, NEW STEEL BEARING PLATES FOR SIDEWALK, RIGHT SIDE UTILITY SUPPORTS, AND LEFT SIDE RAILING POSTS WITH OZEU PAINT SYSTEM
- SEAL THE EXISTING EXPANSION JOINT
- REMOVE AND REPLACE GUARDRAIL
- REPAIR SLOPE PROTECTION AT THE REAR ABUTMENT
- SEAL ALL CONCRETE SURFACES OF CONCRETE DECK EDGES. ABUTMENTS, WINGWALLS, AND PIERS WITH EPOXY-URETHANE
- CLEARING AND GRUBBING 15' AROUND ABUTMENTS FOR SEALING OPERATIONS
- NEW STRUCTURE IDENTIFICATION SIGNS

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 601 - DUMP ROCK FILL. TYPE B

THIS ITEM WILL BE USED AS DIRECTED BY THE PROJECT ENGINEER TO REPAIR THE EROSION AT THE REAR RIGHT EMBANKMENT. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN UNIT PRICE BID.

ITEM 202 - WALK REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING CONCRETE SIDEWALK AT EITHER END OF THE BRIDGE TO THE SECOND CONTROL JOINT FROM THE BRIDGE TO PROVIDE ACCESS TO THE TOP OF THE WINGWALL AND TO PROVIDE SPACE TO CONSTRUCT THE RAILING END POST FOUNDATION.

ITEM 514 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL ITEM 514 - FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT

ITEM 514 - FIELD PAINTING STRUCTURAL STEEL. INTERMEDIATE COAT ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, FINISH COAT

THESE ITEMS WILL BE USED TO PAINT THE RIGHT OUTSIDE FACE AND BOTTOM OF THE FASCIA BEAM, SIDEWALK SUPPORTS, NEW STEEL BEARING PLATES FOR SIDEWALK. RIGHT SIDE UTILITY SUPPORTS, AND LEFT SIDE RAILING POSTS. THE SIDEWALK SUPPORTS WILL BE PAINTED AFTER SIDEWALK REMOVAL AND BEFORE NEW SIDEWALK IS PLACED. THE ENTIRE SIDEWALK SUPPORT BEAMS WILL BE PAINTED, INCLUDING THE TOP OF THE SUPPORTS. FEDERAL NO.: 14277

ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER MISC.: HOT APPLIED JOINT SEALER

ALL EXISTING JOINT SEALER MATERIAL AND DEBRIS SHALL BE REMOVED PRIOR TO SEALING THE JOINTS. SEAL THE JOINTS AS PER CMS 705.04.

ITEM 519 - PATCHING CONCRETE STRUCTURES. AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

STRUCTURE IDENTIFICATION SIGNS

STRUCTURE IDENTIFICATION SIGNS (I-H25a) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE, A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL BE HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20. MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES: SUM-91-0789 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

- ITEM 630 SIGN, FLAT SHEET, 730.20, 1 SQ FT
- ITEM 630 GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT
- ITEM 630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL. 1 EACH
- ITEM 630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 1 EACH

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(SEE 848.12) THE COMPONENTS OF THE MICRO-SILICA MODIFIED CONCRETE SHALL BE PROPORTIONED AS FOLLOWS.

CONCRETE TABLE QUANTITIES PER CUBIC YARD AGGREGATES (SSD)

RTO AIR **FIBER (1	
	1/4"
TITIOUS CONTENT POLYPROPYL	ENE)
TIO ± 2% (LB)	
4 8 1	
4 8 1	
4 8 1	

- * ALL COURSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED PER ASTM C127
- ** FIBER MESH SHALL BE 100% VIRGIN POLYPROPYLENE IN A FIBRILLATED-NETWORK FORM. AND SHALL BE 11/4" IN LENGTH.

THE WEIGHTS SPECIFIED IN THE CONCRETE TABLE WERE CALCULATED FOR MATERIALS OF THE FOLLOWING BULK SPECIFIC GRAVITIES (SSD): NATURAL SAND AND GRAVEL 2.62, LIMESTONE SAND 2.68, LIMESTONE 2.65, SLAG 2.30, MICRO-SILICA SOLIDS 2.20, AND PORTLAND CEMENT 3.15. FOR AGGREGATES OF SPECIFIC GRAVITIES DIFFERING MORE THAN PLUS OR MINUS 0.02 FROM THESE, THE WEIGHTS IN THE TABLE WILL BE CORRECTED. (FIBER MESH WEIGHTS NOT INCLUDED IN MIX DESIGN)

ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED BY ASTM C127

ALL OTHER REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION SHALL REMAIN IN EFFECT.

IN ADDITION TO THE ABOVE REQUIREMENTS, FOR STRUCTURE MAH-193-0072 (LEFT DECK) (STRUCTURE TO RECEIVE THE WEEK-END FULL DEPTH REPAIRS) THE FOLLOWING REVISIONS SHALL APPLY:

(SEE 848.29) THE WET CURE TIME APPLIES TO THE FULL DEPTH REPAIRS AND IS REDUCED FROM 72 HOURS TO 24 HOURS OR UNTIL A BEAM BREAK OF 600 PSI IS ACHIEVED. WHICHEVER IS GREATER. AFTER THE 24 HOUR WET CURE, THE FULL DEPTH SURFACE SHALL BE CURED BY SPRAYING A UNIFORM APPLICATION OF CURING MATERIAL OF 705.07, TYPE 1 OR 1D. AS PER CMS 511.17 METHOD (B) MEMBRANE CURING. IF THE CURING COMPOUND CAN NOT BE PLACED WITHIN THE SAME SHORT TERM CLOSURE PERIOD AS THE FULL DEPTHS, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE STRUCTURE, AND SHALL, AT THE NEXT AVAILABLE SHORT TERM CLOSURE PERIOD, APPLY THE MEMBRANE CURING COMPOUND.

(SEE 848.29) TRAFFIC WILL NOT BE PERMITTED ON THE FINISHED FULL DEPTHS UNTIL AFTER THE COMPLETION OF THE 24 HOUR WET CURE, AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 600 PST (4.2 Mpa).

(SEE 848.31) THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS. THE DEPARTMENT WILL PERFORM THE BEAM BREAK TESTS AND DOCUMENT THE TIME OF THE POUR, THE TIME OF THE BEAM BREAK TESTS, AND THE MODULUS OF RUPTURE FOR EACH BEAM UNTIL THE MODULUS OF RUPTURE OF THE TWO TESTS IS NOT LESS THAN 650 PSI (4.5 MPa). TRAFFIC IS ALLOWED ON THE LEFT DECK AT 600 PSI (4.5 Mpa).

ALL OTHER REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION SHALL REMAIN IN EFFECT.

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE I, AS PER PLAN

INSTALL BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN AT THE FORWARD RIGHT AND REAR RIGHT SIDE OF THE STRUCTURE CONNECTING TO THE INSIDE SIDEWALK RAILING. PLACE THE BRIDGE TERMINAL ASSEMBLY, AS PER PLAN AS PER STANDARD CONSTRUCTION DRAWING GR-3.1 EXCEPT THE CONNECTION TO THE SIDEWALK RAILING WILL BE AS FOLLOWED. THE FOUR BLOCK POST AT THE SIDEWALK RAILING CONNECTION WILL REMAIN IN PLACE AND THE NEW BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN WILL BE ATTACHED TO THAT EXISTING FOUR BLOCK POST.

PAYMENT FOR THE ABOVE WORK WILL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN, EACH, AND WILL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS WORK.

ITEM 606. GUARDRAIL. MISC.: REPLACE FACIA PANEL

THIS WORK WILL CONSIST OF REMOVING THE FACIA PANEL ON THE LEFT SIDE OF STRUCTURE SUM-91-7.89 AND REPLACING WITH A NEW TYPE 5 PANEL. THE NEW PANEL WILL BE ATTACHED TO THE EXISTING SUPPORTS.

PAYMENT FOR THIS ITEM WILL INCLUDE ALL LABOR, MATERIALS, AND EQUIPEMENT NECESSARY TO PERFORM THIS WORK. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER FOOT FOR ITEM 606, GUARDRAIL, MISC .: REPLACE FACIA PANEL.

ITEM 606 - ANCHOR ASSEMBLY, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS:

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY. 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF TWO 25'-0" LONG RAIL ELEMENTS. IN-STALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICA-TIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

		DW	/G./	O	DOT
		RE	V.	AF	PROVAL
DWG. NO.	DRAWING NAME		DATE	-	DATE
SSS265M	ET-2000 (1997)		6/20/9	97	3/6/98
/	PLAN, ELEVATION AND				
	SECTIONS				

ET2000 PLUS 50'-0" 4/12/00 7/31/00 PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4

ET2000 PLUS PLAN, ELEVATION 2/29/00 7/31/00 AND SECTION 25'-0" RAIL, HBA POSTS 1-4

SS158 ET2000 PLUS 50'-0" WITH 5/22/00 7/31/00 12'-6" PANELS AND HBA POSTS 1-4 PLAN, ELEVATION AND SECTION

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF FOUR 12'-6" LONG RAIL ELEMENTS. IN-STALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICA-TIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

ODOT DWG./ APPROVAL RFV. DWG. NO. DRAWING NAME DATE DATE 12/11/97 3/6/98 SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19. APPROXIMATELY 18" X 18", OR 12" X 18" IF APPLIED TO A RECTANGULAR ET-2000 "PLUS" EXTRUDER HEAD.

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACE-MENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4-INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MA-TERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM. INCLUDING ALL RELATED TRANSITIONS. REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 513 - STRUCTURAL STEEL, MISC.: ALUMINUM DECK GRATING

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING THE ALUMINUM SIDEWALK DECK GRATING "ALPLANK8" MANUFACTURED BY OHIO GRATINGS, 5299 SOUTHWAY S.W., CANTON, OHIO 44706. PHONE NUMBER: 800-321-9800. THE DECK GRATING SHALL BE FABRICATED PER THE EXISTING HORIZONTAL CURVE ALIGNMENT. THE CONNECTION DETAIL FOR THE DECK GRATING TO THE EXISTING WIOXI9 SIDEWALK SUPPORT BEAMS SHALL BE PER THE MANUFACTURER'S DETAILS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PER PLAN DETAILS. INCLUDING ALL REQUIRED HARDWARE TO ATTACH THE DECK GRATING TO THE EXISTING SUPPORT

SIX WEEKS PRIOR TO INSTALLING THE SIDEWALK ALUMINUM DECK GRID, THE CONTRACTOR SHALL CONTACT THE MANUFACTURER TO INITIATE COORDINATION OF THE SHOP DRAWING PLANS OF THE DECK SYSTEM BASED ON EXISTING FIELD CONDITIONS AND DIMENSIONS.

THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. THE REVIEW DURATION SHALL BE SEVEN DAYS FOR EACH SUBMISSION.

ODOT WILL ACCEPT AN ALTERNATIVE IF THE FOLLOWING CONDITIONS ARE MET:

- 1. THE SYSTEM MATCHES THE GEOMETRY OF THE EXISTING SIDEWALK SYSTEM AND CAN BE INSTALLED WITH THE EXISTING SIDEWALK SUPPORT BEAMS AND PROPOSED HAND RAIL SYSTEM.
- 2. THE HEIGHT OF THE GRATING SHALL NOT VARY BY MORE THAN 1/4" FROM THE EXISTING SYSTEM AND HEIGHT OF THE ADJACENT EXISTING CONCRETE CURB.
- 3. THE MATERIAL SHALL BE ALUMINUM OR A NON-CORROSIVE MATERIAL THAT CAN BE IN CONTACT WITH PAINTED STEEL AND CONCRETE.
- 4. SYSTEM SPECIFICATIONS AND CATALOG CUT INFORMATION SHALL BE SUBMITTED TO ODOT FOR REVIEW AND APPROVAL. REVIEW AND APPROVAL DURATION SHALL BE 20 DAYS.
- 5. PENDING ODOT APPROVAL OF THE SYSTEM SPECIFICATION SUBMITTAL, THE CONTRACTOR SHALL PREPARE CALCULATIONS STAMPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER THAT THE SYSTEM CAN ACCOMMODATE A LIVE LOAD OF 85 PSF AND A DEAD LOAD NOT TO EXCEED 30 PSF. GIVEN THE EXISTING SPACING OF THE SIDEWALK SUPPORT BEAMS. REVIEW AND APPROVAL DURATION OF THE CALCULATIONS SHALL BE 20 DAYS.

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THIS ITEM SHALL CONSIST OF PROVIDING A ½" ASTM A709, GR. 36 STEEL BEARING PLATE AT EACH WINGWALL TO PROVIDE AN EXPANSION SURFACE FOR THE DECK GRATING SYSTEM AND A CONNECTION POINT FOR THE WINGWALL RAILING POST. THE BEARING PLATE AND WINGWALL POST SLEEVE SHALL BE PAINTED PER ITEM 514.

THE BEARING PLATE SHALL BE SECURED TO THE WINGWALL BY (4) EXPANSION ANCHORS WITH A 6" (MIN.) EMBEDMENT LENGTH. THE WINGWALL RAILING SLEEVE POST SHALL BE WELDED TO THE BEARING PLATE. CONTRACTOR SHALL FIELD VERIFY BEARING PLATE SIZE.

ITEM 517 - RAILING, ALUMINUM, AS PER PLAN

THIS ITEM SHALL CONSIST OF PROVIDING AND INSTALLING SCHEDULE 80 ALUMINUM RAILING SYSTEM THAT MATCHES THE EXISTING FIELD DIMENSIONS AND PLAN DETAILS ON SHEET 6. THE HORIZONTAL RAIL DIMENSIONS SHALL BE KEPT CONSISTENT OVER THE BRIDGE PROFILE. THE RAILING POSTS SHALL BE PLUMB VERTICAL AND SHOP WELDED TO A 7"X12"X1/2" PLAT SHALL BE BOLTED TO THE EXISTING RAILING POST ANCHOR PLATES. FIELD DRILLING THE ANCHOR BOLT HOLES INTO THE EXISTING ANCHOR PLATES; FURNISHING AND INSTALLING 1/2" DIAM. GALVANIZED, A325, TYPE I BOLTS AND NUTS; AND FURNISHING AND INSTALLING THE 10 GA. ALUMINUM COVER PSHALL BE INCLUDED WITH THIS PAY ITEM.

END POST FOUNDATION

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THE LAST RAILING POST ON EACH END OF THE BRIDGE SHALL BE ENCASED IN AN 8 INCH DIAMETER BY 3 FOOT DEEP CLASS C CONCRETE FOOTING. ALL COSTS FOR THIS FOOTING, INCLUDING EXCAVATION OR AUGERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 511 - CLASS C CONCRETE, FOOTING.

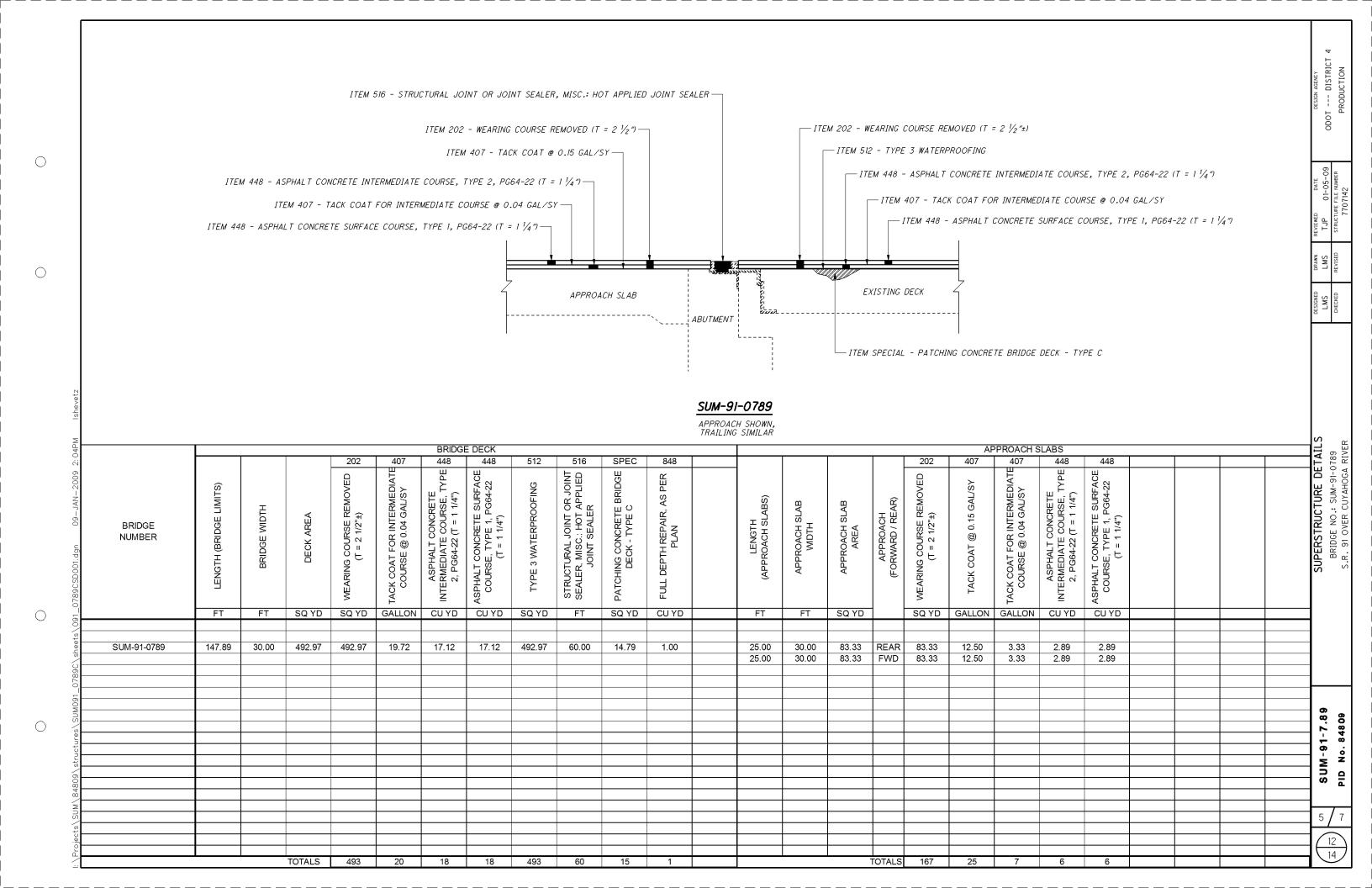
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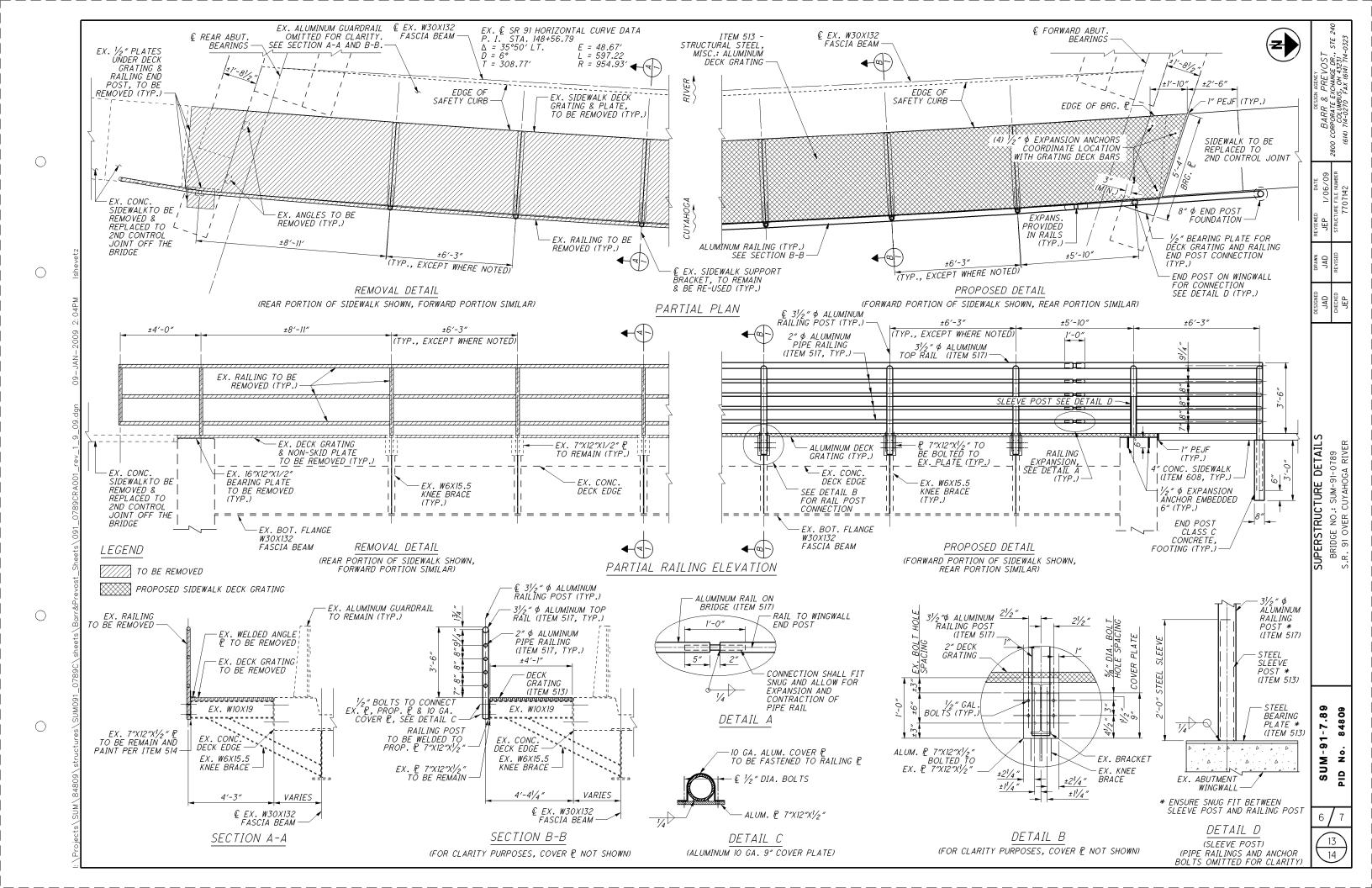
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						CALC: CHECKED:	LMS TJP	DATE: DATE:	1/5/20
				ESTIMATED QUANTITIES		CHECKED:	IJP	DATE:	1/5/200
ITEM EXT	TENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE
201	11000	LUMP		CLEARING AND GRUBBING					SHEET
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN					1
	23500	660	SQ YD	WEARING COURSE REMOVED			493	167	'
	30001	80		WALK REMOVED, AS PER PLAN			100	80	
	38000	513	FT	GUARDRAIL REMOVED				513	
202		010	* 1	GO, II (BIV II) I (EI) GV E B				0.0	
407	10000	25	GALLON	TACK COAT				25	
407	14000	27	GALLON	TACK COAT FOR INTERMEDIATE COURSE			20	7	
448	46050	24	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22			18	6	
	47020	24		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22			18	6	
511	46500	1	CU YD	CLASS C CONCRETE, FOOTING				1	
512	10100	634	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	104	393	137		
512	33010	493		TYPE 3 WATERPROOFING			493		
540	25000		E4011	OTTOUGH IN OTTES AND OTTES DEADING DIATEO					
	95030	2		STRUCTURAL STEEL, MISC.: STEEL BEARING PLATES			000	2	3
513	95050	600	SQ FT	STRUCTURAL STEEL, MISC.: ALUMINUM DECK GRATING			600		3
514	00050	1695	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			1695		
514	00056	1695	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			1695		
514	00060	1695	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			1695		
514	00066	1695	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			1695		
514	00504	9	MAN HOUR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			9		
	10000	4		FINAL INSPECTION REPAIR			4		
540	40000	4	00.57	AN EDECADAGE EVENANCION ICINITENTED				4	
	13600 14600	60	SQ FT FT	1" PREFORMED EXPANSION JOINT FILLER STRUCTURAL JOINT OR JOINT SEALER, MISC.: HOT APPLIED JOINT SEALER			60	4	
310	14600	60	F1	STRUCTURAL JUINT OR JUINT SEALER, MISC., HOT APPLIED JUINT SEALER			00		1
517	75001	160	FT	RAILING, ALUMINUM, AS PER PLAN			160		3
519	11101	150	SO ET	PATCHING CONCRETE STRUCTURE. AS PER PLAN				150	
	1912304	150 15		PATCHING CONCRETE STRUCTURE, AS PER PLAN PATCHING CONCRETE BRIDGE DECK - TYPE C			15	150	
01 20 31	1512504	10	00,10	TATOLING CONCRETE BRIBGE BEGIN THE C			10		
601	26000	6	CU YD	DUMPED ROCK FILL, TYPE B				6	
606	13000	325	FT	GUARDRAIL, TYPE 5				325	
	22010	4		ANCHOR ASSEMBLY, TYPE E-98				4	
	35001	2		BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN				2	2
	35140	2		BRIDGE TERMINAL ASSEMBLY, TYPE 4				2	
	98000	150	FT	GUARDRAIL, MISC.: REPLACE FACIA PANEL				150	2
608	10000	74	SQ FT	4" CONCRETE WALK				74	
000	10000	14	JUFI	4 CONCRETE WALK				14	
	02100	15		GROUND MOUNTED SUPPORT, NO. 2 POST				15	
	80100	2		SIGN, FLAT SHEET, 730.20				2	
	84900	2		REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL				2	
630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL				2	
843	50000	75	SQ FT	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR				75	
848	50201	1	CU YD	FULL DEPTH REPAIR, AS PER PLAN			1		2

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							TIMATED QUANTITIES	
SEAL ENTIRE SURACE AREA	•	BRIDGE NO.	STRUCTURE TYPE	PROPOSED SEALING	FEDERAL COLOR NUMBER	ABUT PIER SQ YD SQ Y		TOTAL SQ YD
(SUM-91-0789	3 SPAN CONTINUOUS STEEL BEAM	SEAL CURBS PER DETAIL A SEAL ALL EXPOSED CONCRETE AT A SEAL ALL EXPOSED CONCRETE AT P.		104 393	137	634
O'-9" O'-6" DETAIL F CONCRETE DECI				USED UNLESS SHOWN OTHERWISE Y TO CONCRETE SLAB BRIDGES	SEAL I WITH BEARI UNDEF ARE S ENGIN	AN EPOXY OR NON-, NGS, DO NOT APPL THE PROPOSED BE EALED, REMOVE THU	FIF THE BEAMS SEATS EPOXY SEALER PRIOR TO Y SEALER TO THE CONCI EARING LOCATIONS. IF E SEALER TO THE SATIS TING THE BEARINGS. TH	O SETTING THE RETE SURFACES THESE LOCATIONS FACTION OF THE
	GRI			GR2		GR3		2
		0 • 0 • 0			0 • 0 • 0	• 0 •	0 • 0 •	0_
	(GR4)	 					(GR5)	
- · · · · · · ·		0 0 0 0			······································	• 0 •	<u>/</u>	- 0-
	202 606 60							
DEE NO	REMOVED L, TYPE 5 RIV TYPE E-98							
REF NO.	GUARDRAIL, TYPE 5	GE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN GE TERMINAL ASSEMBLY,						
REF NO.	REMOVED L, TYPE 5 RIV TYPE E-98	BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN BRIDGE TERMINAL ASSEMBLY,	TYPE 4 GUARDRAIL, MISC.: REPLACE FACIA PANEL					
GR1	GUARDRAIL REMOVED GUARDRAIL, TYPE 5	BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN BRIDGE TERMINAL ASSEMBLY,	GUARDRAIL, MISC.: REPLACE					
GR1 GR2 GR3	GUARDRAIL REMOVED GUARDRAIL TYPE 5 LOVE DAYS AND THE TEAM OF THE THE TYPE 12 1125 LOVE DAYS AND THE THE TYPE 12 1125 LOVE DAYS AND THE TYPE 12 1126 LOVE DAYS AND THE TYPE 12 1127 LOVE DAYS AND THE TYPE 12 1127 LOVE DAYS AND THE TYPE 12 1127 LOVE DAYS AND THE TYPE 12 1128 LOVE DAYS AND THE TYPE 12 1129 LOVE DAYS AND THE TYPE 12 1129 LOVE DAYS AND THE TYPE 12 1120 LOVE	BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN BRIDGE TERMINAL ASSEMBLY, BRIDGE TERMINAL ASSEMBLY,	GO GUARDRAIL, MISC.: REPLACE FACIA PANEL					
GR1 GR2	GUARDRAIL, TYPE 5 GUARDRAIL, TYPE 5 ANCHOR ASSEMBLY TYPE 5 172	DOUT OF THE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN TYPE 1, AS PER PLAN BRIDGE TERMINAL ASSEMBLY,	GO GUARDRAIL, MISC.: REPLACE FACIA PANEL					

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