

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**SUM-82-0.00**  
SAGAMORE HILLS TOWNSHIP  
SUMMIT COUNTY

PROJECT DESCRIPTION

CONCRETE OVERLAY AND OTHER MINOR BRIDGE WORK TO SUM-82-0.00 IN SAGAMORE HILLS TOWNSHIP, SUMMIT COUNTY.

PROJECT EDA: N/A (MAINTENANCE PROJECT)  
ESTIMATED CONTRACTOR EDA: N/A (MAINTENANCE PROJECT)  
NOTICE OF INTENT EDA: N/A (MAINTENANCE PROJECT)

2013 SPECIFICATIONS

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 DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 5.

APPROVED: *[Signature]*  
DATE: 3-5-13 DISTRICT DEPUTY DIRECTOR

APPROVED: *[Signature]*  
DATE: 4-1-13 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.  
**NON-FEDERAL**

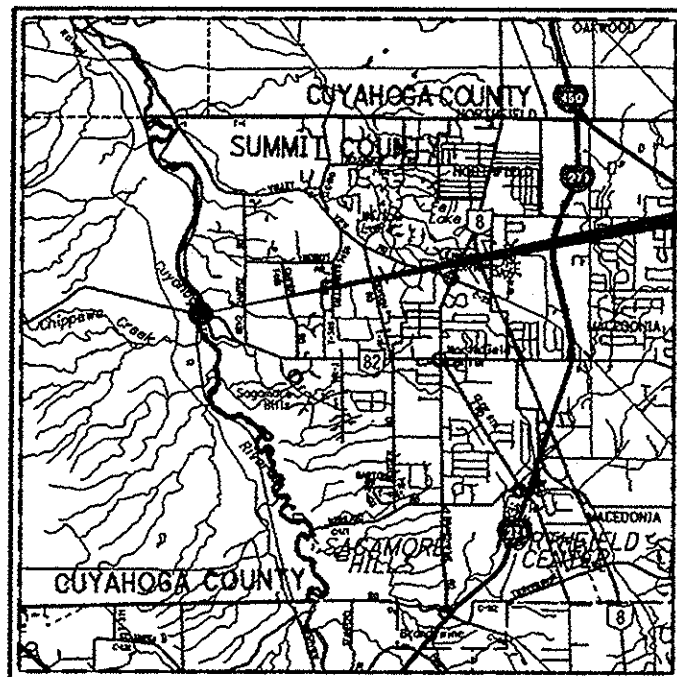
PID NO.  
**91051**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

**SUM-82-0.00**

1/11



LOCATION MAP

LATITUDE: N41°19'17" LONGITUDE: W81°35'14"



- PORTION TO BE IMPROVED - - - - -
- INTERSTATE HIGHWAY - - - - -
- FEDERAL ROUTES - - - - -
- STATE ROUTES - - - - -
- COUNTY & TOWNSHIP ROADS - - - - -
- OTHER ROADS - - - - -

DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION:  
RURAL MINOR ARTERIAL  
NHS PROJECT - - - - - NO

DESIGN EXCEPTIONS

NONE

INDEX OF SHEETS:

TITLE SHEET	1
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STRUCTURES (OVER 20')	8-11

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

CALL  
1-800-362-2764  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

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

PLAN PREPARED BY:  
ODOT --- DISTRICT 4  
PLANNING AND ENGINEERING  
2088 SOUTH ARLINGTON ROAD  
AKRON, OHIO 44306

ENGINEERS SEAL:

SIGNED: *[Signature]*  
DATE: 1-25-13

		STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-4.1	7/16/04			800-2013	4/19/13		
DM-4.3	1/18/13			832	5/5/09		
DM-4.4	1/18/13			848	12/31/12		
EXJ-3-82	7/19/02						
MT-101.60	7/20/12						
MT-105.10	7/20/12						
TC-41.20	1/19/01						
TC-42.20	1/21/11						
TC-52.10	1/18/13						
TC-52.20	1/18/13						

SUM - SR-82-0.00  
130452 PID - 91051  
Dist 4 6/27/2013

Contract Proposal Available @ www.  
contracts.dot.state.oh.us/home

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**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:

OHIO EDISON	WINDSTREAM
ATTN: KEN DOWNS	ATTN: JEFF GULYAS
1910 W. MARKET STREET BUILDING I	100 OWEN BROWN ROAD
AKRON, OH 44313	HUDSON, OH 44236
330-384-4839	330-650-8404
330-384-4723 FAX	330-656-2929 FAX

**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.

**PAVEMENT MARKINGS**

ALL PAVEMENT MARKINGS WILL MATCH EXISTING PAVEMENT MARKING WIDTHS. THE FOLLOWING QUANTITIES ARE PROVIDED TO REPLACE EXISTING PAVEMENT MARKINGS.

ITEM 646, EDGE LINE, 4 INCH	0.46 MI
ITEM 646, CENTER LINE	0.23 MI

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CALCULATED	LMP	CHECKED	TJP
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**GENERAL NOTES**

**SUM-82-0.00**

**MAINTENANCE OF TRAFFIC**

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT AND COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK EXCEPT FOR THE STATED DETOUR DURATION.
2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
3. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.
4. ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
5. A QUANTITY OF 30 CU. YDS. OF 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING THE DESIGNATED LOCAL DETOUR ROUTE AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

**DETOUR NOTIFICATION**

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND SUMMIT COUNTY (330-643-2850) 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.

**ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR)**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 7 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS 5-6. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$4000 FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

**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 OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP 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. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

SR 82 WILL BE  
CLOSED (DATE)  
FOR 7 DAYS  
OHIO DEPT OF TRANSPORTATION

W20-H14-60

**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 REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING 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.

**WINTER TRAFFIC LIMITATIONS**

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL 1. NOVEMBER 14 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE AND DISINCENTIVES OF \$1000 SHALL BE ASSESSED FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. THE CONTRACTOR MAY CLOSE LANES PRIOR TO APRIL 1 WITH WRITTEN APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER.

**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 SHEET NO. 5. 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.

**ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)**

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

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

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

DAY OF HOLIDAY OR 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 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	12:00N WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3000 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

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**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR)  
FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 48 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

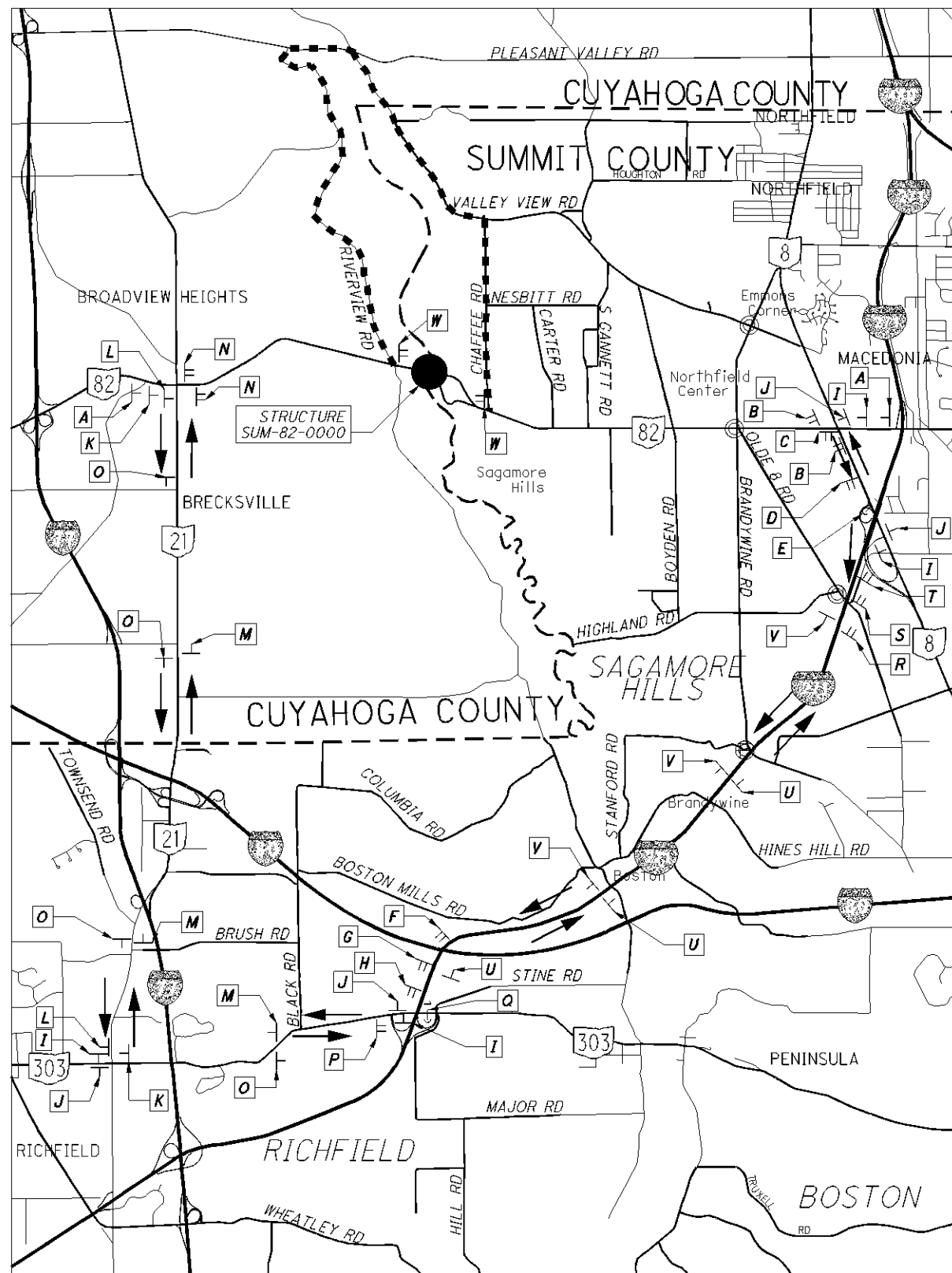
ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

CALCULATED  
CNC  
CHECKED  
MJH

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

**SUM-82-0.00**

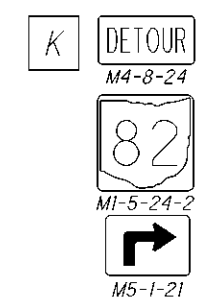
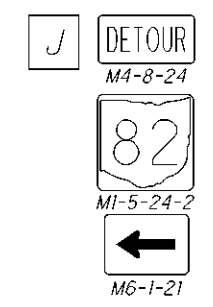
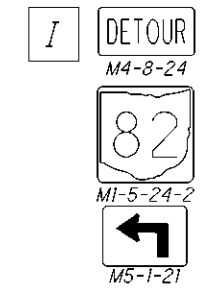
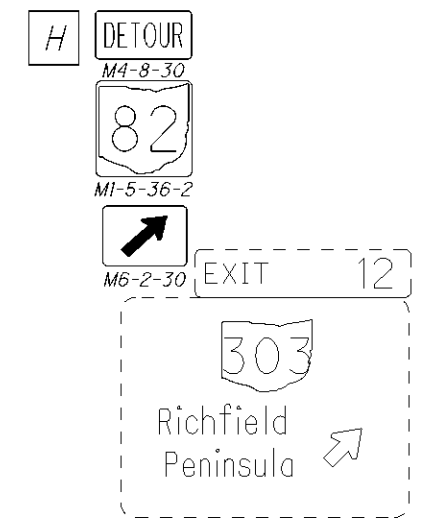
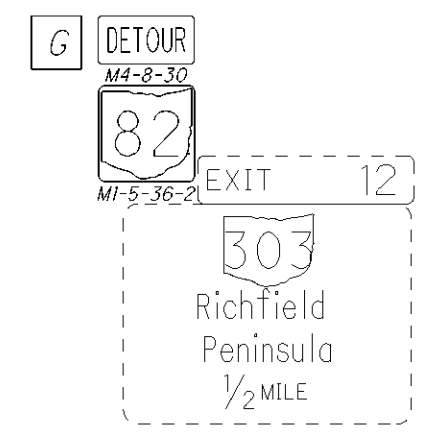
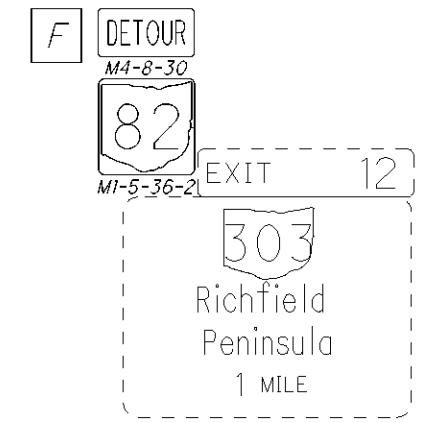
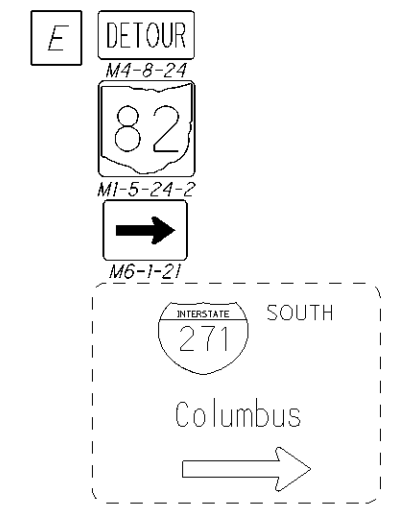
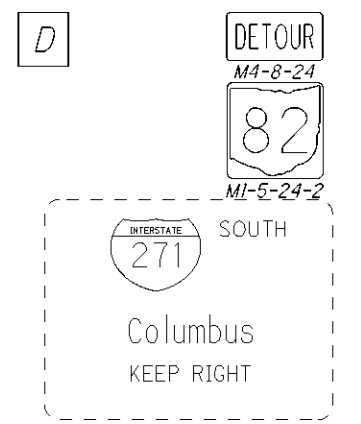
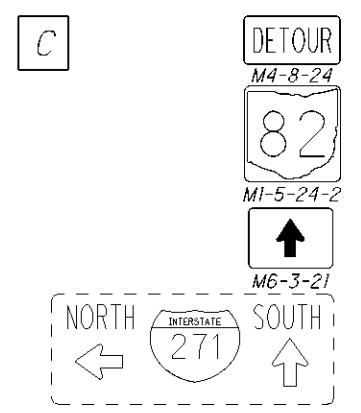
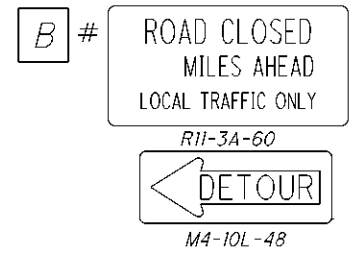
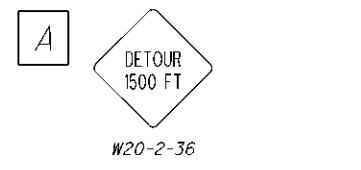
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DETOUR PLAN FOR SUM-82-0.00



- CLOSE AS PER STD. DWG. MT-101.60
- OFFICIAL DETOUR ROUTE: SR 8 / IR-271 / SR 303 / BRECKSVILLE RD / SR 21
- - - LOCAL ALTERNATE DETOUR ROUTE: RIVERVIEW RD / PLEASANT VALLEY RD / VALLEY VIEW RD / CHAFFEE RD




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


# ON TYPE III BARRICADE WITH TYPE B FLASHERS MOUNTED PER SCD MT-101.60

L

DETOUR  
M4-8-24



M1-5-24-2




M6-1-21

M

DETOUR  
M4-8-24

WEST  
M3-4-24




M1-5-24-2

N #

ROAD CLOSED  
MILES AHEAD  
LOCAL TRAFFIC ONLY

R11-3A-60




M4-10R-48

O

DETOUR  
M4-8-24


EAST  
M3-2-24




M1-5-24-2

P

DETOUR  
M4-8-24




M1-5-24-2




M6-3-21

NORTH




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SOUTH




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DETOUR  
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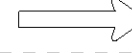
M1-5-36-2



M6-1-30


INTERSTATE 271 NORTH

Erie Pa



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DETOUR  
M4-8-24



M1-5-36-2


EXIT 18

8 to 82

Macedonia Northfield  
1 MILE

S

DETOUR  
M4-8-24



M1-5-36-2


EXIT 18

8 to 82


Macedonia Northfield  
1/2 MILE

T

DETOUR  
M4-8-24



M1-5-36-2




M6-2-30

EXIT 18

8 to 82


Macedonia Northfield



U

DETOUR  
M4-8-30

EAST  
M3-2-36




M1-5-36-2

V

DETOUR  
M4-8-30

WEST  
M3-4-36



M1-5-36-2

W #

BRIDGE OUT  
MILES AHEAD  
LOCAL TRAFFIC ONLY

R11-3B-60



**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

EXJ-3-82 DATED/REVISED 1/18/13

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

848 DATED 12/31/12

**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.

**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 EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

**PROPOSED WORK**

- SUM-82-0.00
- REMOVE EXISTING CONCRETE WEARING SURFACE AND REPLACE WITH A CONCRETE OVERLAY ON THE DECK AND APPROACH SLABS
- REMOVE AND REPLACE EXISTING ELASTOMERIC COMPRESSION SEALS AT THE ABUTMENTS AND INTERMEDIATE EXPANSION JOINTS
- PATCH AREAS OF CONCRETE SUBSTRUCTURE LISTED IN THE PLANS
- NEW STRUCTURE IDENTIFICATION SIGNS AND OBJECT MARKERS

**ITEM 516 - ELASTOMERIC COMPRESSION SEAL, AS PER PLAN**

THIS ITEM WILL INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING ELASTOMERIC COMPRESSION SEALS FROM EDGE TO EDGE OF STRUCTURE SUM-82-0000 DECK. UPON REMOVAL OF THE SEAL, THE CONTRACTOR WILL ATTEMPT TO MATCH THE REPLACEMENT SEAL AS CLOSELY AS POSSIBLE WITH THE EXISTING SEAL SO AS TO PROVIDE A SNUG, WATERTIGHT SEAL. THE EXISTING ELASTOMERIC COMPRESSION SEAL WILL BE FIELD MEASURE PRIOR TO ORDERING MATERIAL. JOINT OPENING (DIM. "A") IS 2 1/4" @ 60° (FROM EXISTING PLANS). THE ELASTOMERIC COMPRESSION SEAL AND INSTALLATION WILL MEET THE REQUIREMENTS OF STANDARD DRAWING EXJ-3-82.

THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 516, ELASTOMERIC COMPRESSION SEAL, AS PER PLAN. THIS PRICE WILL INCLUDE THE REMOVAL OF THE EXISTING ELASTOMERIC COMPRESSION SEALS, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO REPLACE THE ABUTMENT AND INTERMEDIATE EXPANSION JOINT SEALS.

**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.

**OBJECT MARKERS AND STRUCTURE IDENTIFICATION SIGNS**

OBJECT MARKERS WILL BE PLACED ON EACH APPROACH OFF THE LEFT AND RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. ONE OM-3L AND ONE OM-3R WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND SHALL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 10.5 FT IN LENGTH.

STRUCTURE IDENTIFICATION SIGNS (I-H25a) WILL BE INSTALLED ON THE SAME POST AND DIRECTLY BELOW THE OBJECT MARKER OFF THE RIGHT SHOULDER ON EACH APPROACH. A QUANTITY OF ONE SIGN WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES:  
SUM-82-0.00 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

- ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
- ITEM 630 - SIGN, FLAT SHEET, 6 SQ FT
- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 21 FT
- ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 3 EACH
- ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 2 EACH

**ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN**

**ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN**

**ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN**

THESE ITEMS SHALL BE PERFORMED PER SUPPLEMENTAL SPECIFICATION "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING HYDRO DEMOLITION" WITH THE FOLLOWING REVISIONS:

THE THICKNESS OF THE CONCRETE OVERLAY REMOVED, ASPHALT WEARING COURSE REMOVED, PROPOSED OVERLAY, AND THE DEPTH OF HYDRODEMOLITION SHALL BE AS SPECIFIED IN THE PLANS.

CONSTRUCTION JOINTS WILL NOT BE PERMITTED IN THE WHEEL LINE.

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

CONCRETE TABLE  
QUANTITIES PER CUBIC YARD  
AGGREGATES (SSD)

AGG TYPE	FINE AGG (LB)	#8 COARSE AGG (LB)	AGG TOTAL (LB)	CEMENT CONTENT (LB)	MICRO SILICA (LB)	WATER TO CEMENT-ITIOUS RATIO	AIR CONTENT +/- 2%	FIBER (1 1/4" POLY PROPYLENE) (LB)
GRAVEL	1410	1430	2840	600	50	0.4	8	1
LIME-STONE	1410	1450	2860	600	50	0.4	8	1
SLAG	1380	1350	2850	600	50	0.4	8	1

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

\*\* FIBER MESH SHALL BE 100% VIRGIN POLY PROPYLENE IN A FIBRILLATED-NETWORK FORM AND SHALL BE 1 1/4" 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.

(SEE 848.21) THE FINAL DECK SOUNDING MAY TAKE PLACE WITHIN 24 HOURS OF A RAIN, AND THE DECK DOES NOT HAVE TO BE COMPLETELY DRY.

(SEE 848.23) FULL DEPTH REPAIR IS NOT REQUIRED IF LESS THAN ONE HALF OF THE DECK ORIGINAL CONCRETE THICKNESS IS SOUND.

(SEE 848.29) THE WET CURE TIME 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 FINISHED OVERLAY SURFACE SHALL BE CURED BY SPRAYING A UNIFORM APPLICATION OF CURING MATERIAL OF 705.07, TYPE 1 OR 1D, AS PER CMS 511.14 METHOD (B) MEMBRANE CURING. IF THE CURING COMPOUND CAN NOT BE PLACED WITHIN THE SAME SHORT

TERM CLOSURE PERIOD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY, 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 OVERLAY SURFACE 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 848.30) THE OVERLAY SURFACE EVAPORATION RATE REQUIREMENTS ARE IN EFFECT FROM 9:30 AM TO 11:00 PM. THEY ARE NOT IN EFFECT FROM 11:00 PM TO 11:00 AM.

(SEE 848.31) FOR EACH PHASE, THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT 12 HOURS, 24 HOURS, 36 HOURS, AND 48 HOURS. 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 OVERLAY AT 600 PSI (4.5 Mpa).

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

**ITEM 411, STABILIZED CRUSHED AGGREGATE, AS PER PLAN**

LIMESTONE THAT IS CLEAN, HARD, DURABLE PARTICLES OR FRAGMENTS OF LIMESTONE, AND FILLER SAND OR OTHER FINELY DIVIDED MINERAL MATERIAL WILL BE USED FOR RESTORATION OF THE TOWPATH TRAIL.

GRADATION (SIEVE / PERCENT PASSING):

- 3/4" / 100
- 3/8" / 50-80
- No. 4 / 35-65
- No. 10 / 25-60
- No. 40 / 15-30
- No. 200 / 5-15

**ITEM 659, SEEDING AND MULCHING, AS PER PLAN**

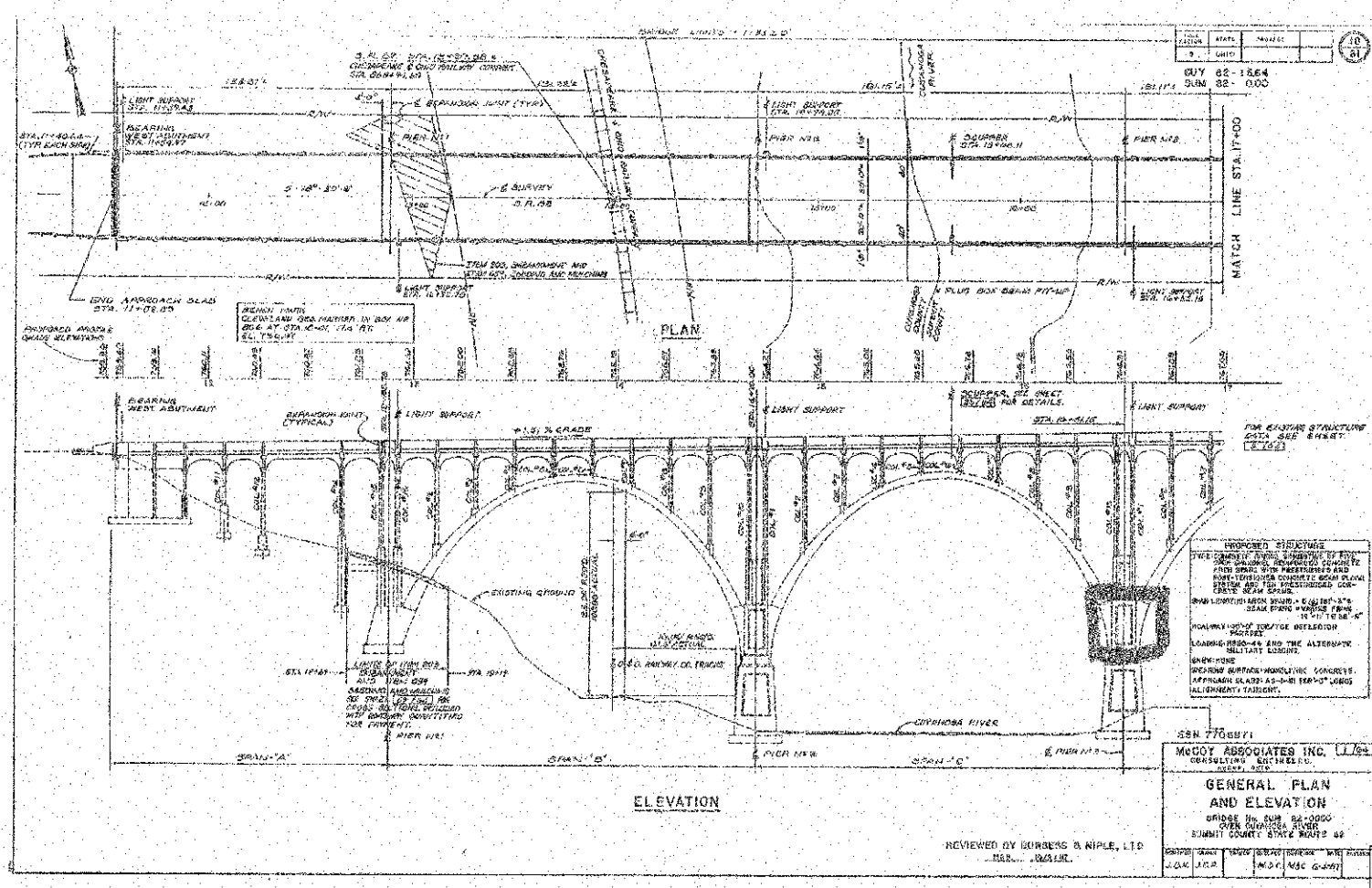
WILD-LAND SEEDS WILL BE USED FOR RESTORATION OF AREAS OFF THE TOWPATH TRAILS.

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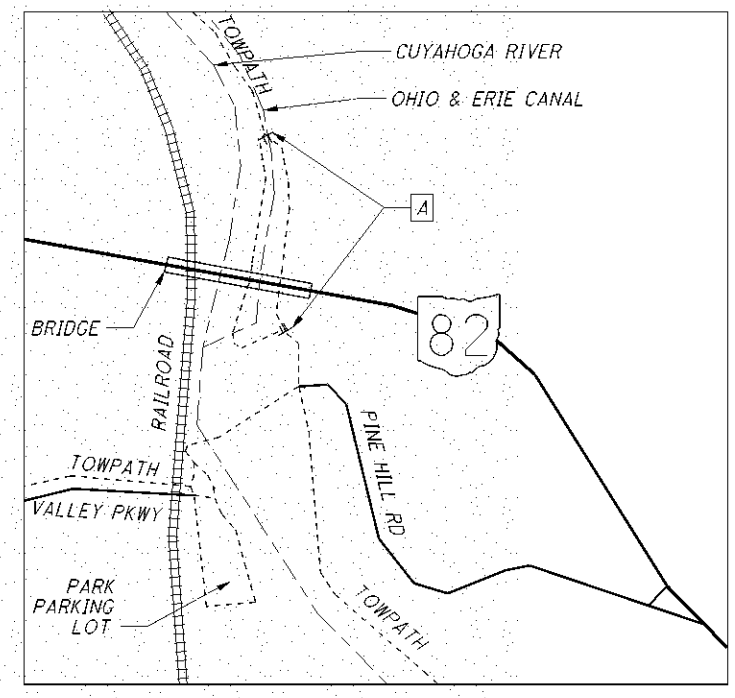
<b>SUM-82-0.00</b>	BRIDGE NO.: SUM-82-0000	DESIGN AGENCY ODOT --- DISTRICT 4	DATE 01/07/13	DESIGN AGENCY ODOT --- DISTRICT 4
PID No. 91051	SR82 OVER CUYAHOGA RIVER, CUYAHOGA VALLEY SCENIC RR, & BIKE PATH	PLANNING AND ENGINEERING	REVIEWED TJP	STRUCTURE FILE NUMBER 7706871
1 / 4	8	11	DRAWN LMP	REVISIONS
1 / 4	8	11	DESIGNED LMP	CHECKED



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FOR REFERENCE ONLY



**DETOUR NOTIFICATION [CUY. VALLEY NATIONAL PARK]**

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND NPS CUYAHOGA VALLEY NATIONAL PARK (440-546-5972) 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.

A # ROAD CLOSED

R11-2-48



M4-9A-30

# ON TYPE III BARRICADE WITH TYPE B FLASHERS MOUNTED PER SCD MT-101.60

**USE OF TOWPATH TRAIL LIMITATIONS**

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO MINIMIZE DAMAGE TO VEGETATION WHEN IT IS NECESSARY TO LEAVE THE TOWPATH TRAIL TO ACCESS THE BRIDGE PIERS FOR PATCHING OPERATIONS. USE OF FILL MATERIAL IS NOT ALLOWED. USE OF TEMPORARY MATTING OR SIMILAR MEASURES IS SUBJECT TO THE APPROVAL BY THE PROJECT ENGINEER.

THE CONTRACTOR WILL ONLY BE PERMITTED TO LEAVE THE TOWPATH TRAIL WITHIN STATE OF OHIO RIGHT-OF-WAY. STATE OF OHIO RIGHT-OF-WAY CONSISTS OF 40' EACH SIDE OF THE BRIDGE CENTERLINE.

TWO TOWPATH TRAILS ARE LOCATED UNDER THE BRIDGE. THE TOWPATH TRAILS ARE NOT TO BE CLOSED CONCURRENTLY. A TOTAL OF SIX (6) 8 HOUR CLOSURES WILL BE PERMITTED BETWEEN 7AM AND 5PM. PRIOR TO OPENING TO TRAFFIC THE TOWPATH TRAIL SHALL BE IN A SAFE, PASSABLE CONDITION. CLOSURE OF THE TRAILS SHALL BE SIGNED PER THE DETAIL ABOVE. PAYMENT FOR THE TOWPATH TRAIL CLOSURES AND ALL REQUIREMENTS FOR THE CLOSURES WILL BE INCIDENTAL TO ITEM 614, DETOUR SIGNING.

ACCESS TO THE TOWPATH TRAILS BY THE CONTRACTOR WILL BE FROM THE EAST USING PINE HILL ROAD. NO EQUIPMENT SHALL BE STORED WITHIN 10' OF THE EDGE OF THE TOWPATH TRAILS AND SHALL BE STORED WITHIN STATE OF OHIO RIGHT-OF-WAY.

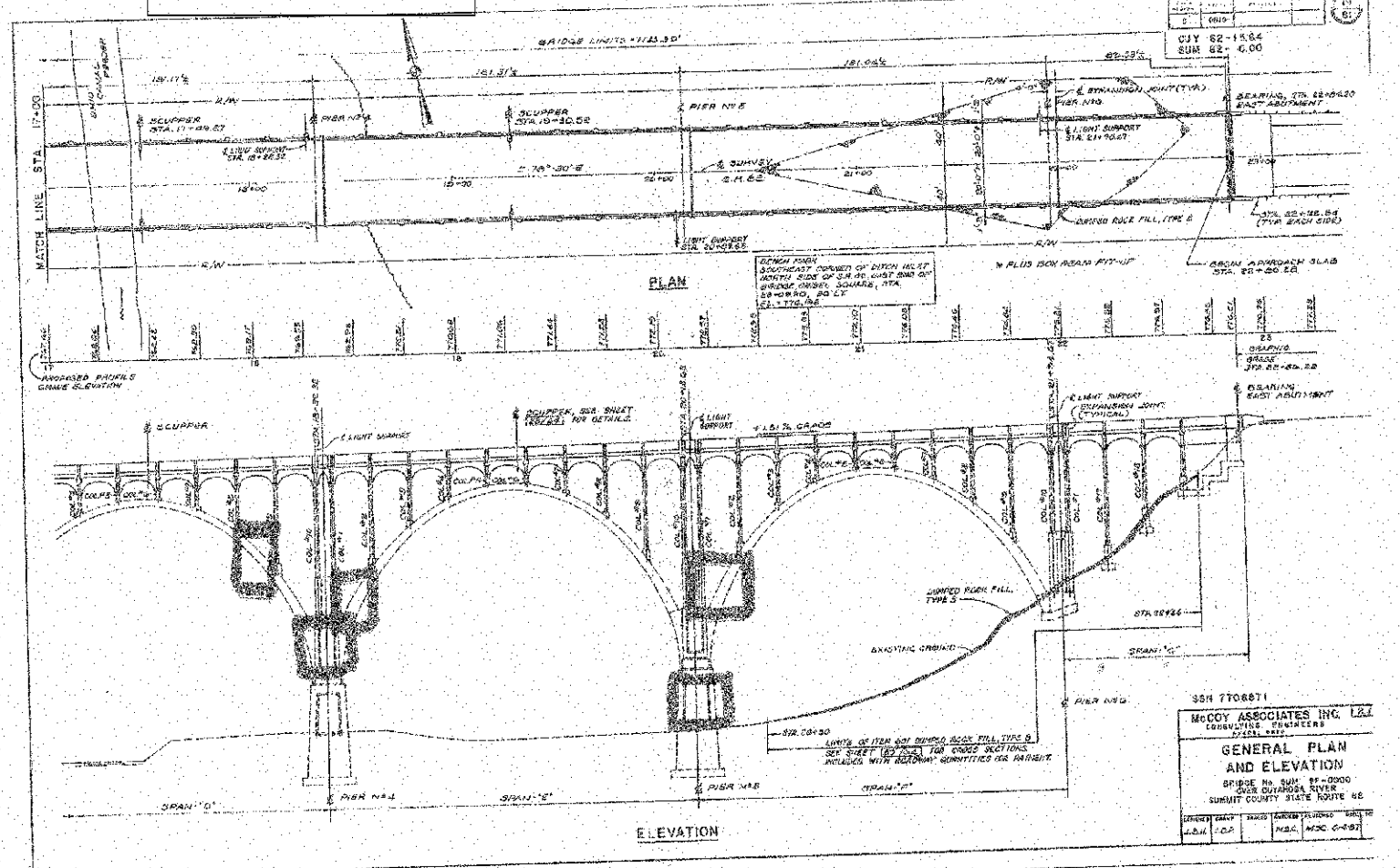
DAMAGE TO THE TOWPATH TRAILS, PINE HILL ROAD, AND AREAS OFF THE TRAILS WILL BE RESTORED TO IT'S ORIGINAL CONDITION PER CMS 104.04. ITEMS LISTED BELOW SHALL BE USED TO RESTORE THE TRAIL, ROAD, AND AREAS OFF THE TRAILS USED FOR PATCHING OPERATIONS AND ACCESS TO THE PATCHING LOCATIONS.

- ITEM 411, STABILIZED CRUSHED AGGREGATE, AS PER PLAN 10 CU YD
- ITEM 659, SEEDING AND MULCHING, AS PER PLAN 250 SQ YD
- ITEM 659, TOPSOIL 30 CU YD

**SUBSTRUCTURE PATCHING LOCATIONS**

AREAS TO BE PATCHED WITH ITEM 519, PATCHING CONCRETE SURFACES, AS PER PLAN ARE:

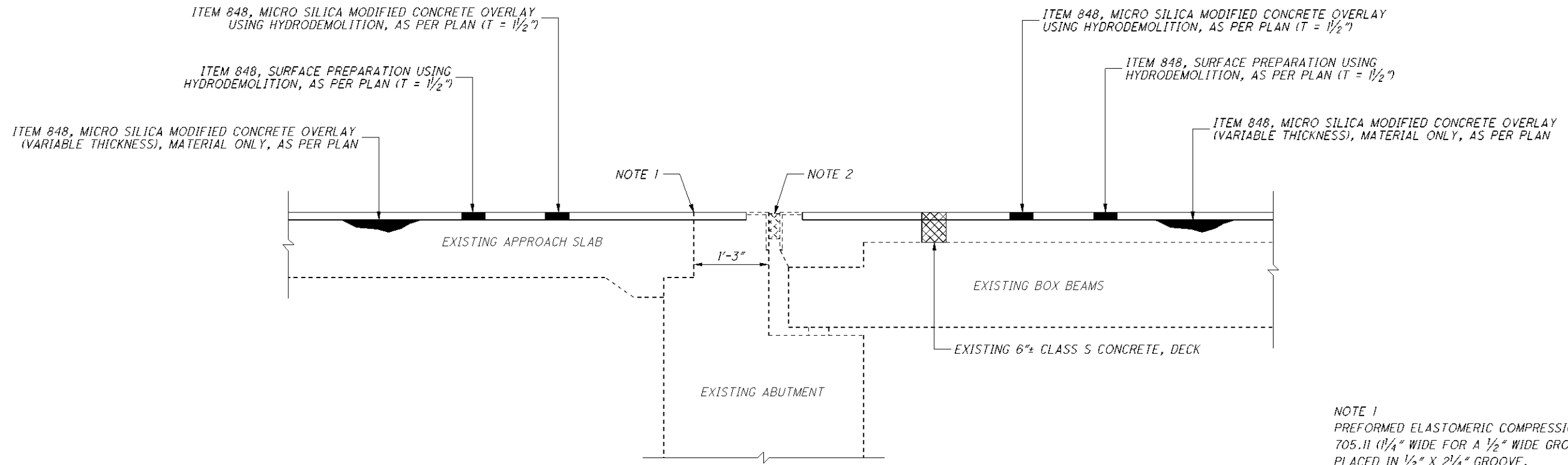
LOCATION	ESTIMATED AREA
PIER 3 - BOTTOM OF ARCH EAST SIDE	25 SF
SPAN D - BETWEEN COLUMNS 8 & 9 - BOTTOM OF ARCH	25 SF
PIER 4 - BOTTOM OF ARCH	25 SF
PIER 4 - BOTTOM OF ARCH - EAST SIDE	25 SF
PIER 5 - BOTTOM OF ARCH - EAST SIDE	50 SF
PIER 5 - BOTTOM OF PIER	50 SF



DESIGN AGENCY: ODOT --- DISTRICT 4  
 PLANNING AND ENGINEERING  
 DATE: 01/07/13  
 STRUCTURE FILE NUMBER: 7706871  
 REVIEWED: TJP  
 DRAWN: LMP  
 DESIGNED: LMP  
 CHECKED: [ ]  
**STRUCTURE GENERAL NOTES**  
 BRIDGE NO.: SUM-82-0000  
 SR82 OVER CUYAHOGA RIVER, CUYAHOGA VALLEY SCENIC RR, & BIKE PATH  
**SUM-82-0-00**  
 PID No. 91051  
 2 / 4  
 9 / 11



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SUM-82-0000  
APPROACH SHOWN,  
TRAILING SIMILAR

NOTE 1  
PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL  
705.11 (1/4" WIDE FOR A 1/2" WIDE GROOVE)  
PLACED IN 1/2" X 2 1/4" GROOVE.

NOTE 2  
SEE ELASTOMERIC COMPRESSION SEAL, AS PER PLAN  
NOTE ON PAGE 1/3.

BRIDGE NUMBER	BRIDGE DECK										APPROACH SLABS											
	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	516 ELASTOMERIC COMPRESSION SEAL, AS PER PLAN	848 MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T = 1 1/2")	848 SURFACE PREPARATION USING HYDRO DEMOLITION, AS PER PLAN (T = 1 1/2")	848 MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	848 HAND CHIPPING	848 TEST SLAB		LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	516 PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL, 705.11	848 MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN	848 SURFACE PREPARATION USING HYDRO DEMOLITION, AS PER PLAN	848 MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	848 HAND CHIPPING			
	FT	FT	SQ YD	FT	SQ YD	SQ YD	CU YD	SQ YD	LUMP		FT	FT	SQ YD		FT	SQ YD	SQ YD	CU YD	SQ YD			
SUM-82-0000	1133.39	40.00	5037.29	320.00	5037.29	5037.29	125.93	151.12	LUMP		20.00	40.00	88.89	FWD	40.00	88.89	88.89	2.22	2.67			
											20.00	40.00	88.89	REAR	40.00	88.89	88.89	2.22	2.67			

**SUM-82-0-00**  
PID No. 91051

SUPERSTRUCTURE DETAILS  
BRIDGE NO.: SUM-82-0000  
SR82 OVER CUYAHOGA RIVER, CUYAHOGA VALLEY SCENIC RR, & BIKE PATH

DESIGNED LMP CHECKED	DRAWN LMP REVISED	REVIEWED TJP STRUCTURE FILE NUMBER 7706871	DATE 01/07/13	DESIGN AGENCY ODOT --- DISTRICT 4 PLANNING AND ENGINEERING
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