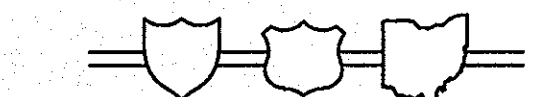


### LOCATION MAPS

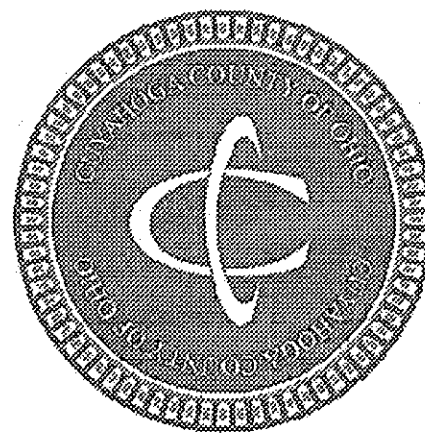
NOT TO SCALE

PROJECT LOCATIONS

INTERSTATE, U.S. AND STATE ROUTES



COUNTY AND OTHER ROADS

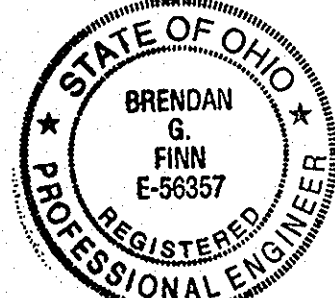


PLAN PREPARED BY:

CUYAHOGA COUNTY  
DEPARTMENT OF PUBLIC WORKS

2100 SUPERIOR VIADUCT  
CLEVELAND, OHIO 44113  
(216) 348-3800

ENGINEER'S SEAL



SIGNED: *Brendan G. Finn*  
DATE: 11/08/2012

### OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS

NUMBER	DATE	NUMBER	DATE	NUMBER	DATE	NUMBER	DATE
MT-95.31	07/20/2012	TC-41.20	01/19/2001			800	10/19/2012
MT-95.32	07/20/2012	TC-52.10	01/19/2007			821	04/20/2012
MT-95.50	07/20/2012	TC-52.20	01/19/2007			1047	07/16/2010
MT-95.60	07/20/2012	TC-71.10	10/19/2012				
MT-96.11	07/20/2012	TC-73.10	04/20/2012				
MT-96.20	07/20/2012						
MT-96.26	01/16/2009						
MT-97.10	07/20/2012						
MT-105.10	07/20/2012						
MT-110.10	07/20/2012						

### SPECIAL PROVISIONS

SEE SECTION 200 OF THE CUYAHOGA  
COUNTY ENGINEER SPECIFICATION BOOKLET  
IN THE BID PACKAGE

# CUYAHOGA COUNTY BRIDGE DECK SEALING PROGRAM

BASSETT ROAD (C.R. 118) BRIDGE 03.57

CITY OF BAY VILLAGE

BENNETT ROAD (C.R. 109) BRIDGE 01.82

CITY OF NORTH ROYALTON

HARVARD AVENUE (C.R. 43) BRIDGE 00.16

CITY OF CLEVELAND/VILLAGE OF CUYAHOGA HEIGHTS

LEWIS ROAD (C.R. 174) BRIDGE 02.91

CITY OF NORTH OLMSTED/OLMSTED TOWNSHIP

ROCKSIDE ROAD (C.R. 53) BRIDGE 03.41

VILLAGE OF VALLEY VIEW

TRISKETT ROAD (C.R. 228) BRIDGE 01.34

CITY OF CLEVELAND

WHISKEY ISLAND DRIVE BRIDGE 00.93

CITY OF CLEVELAND

STATE OF OHIO

### INDEX OF SHEETS

TITLE SHEET.....	1
GENERAL NOTES.....	2-5
GENERAL SUMMARY.....	6
BASSETT ROAD BRIDGE 03.57.....	7
BENNETT ROAD BRIDGE 01.82.....	8
HARVARD AVENUE BRIDGE 00.16.....	9
LEWIS ROAD BRIDGE 02.91.....	10
ROCKSIDE ROAD BRIDGE 03.41.....	11
TRISKETT ROAD BRIDGE 01.34.....	12
WHISKEY ISLAND DRIVE BRIDGE 00.93.....	13

APPROVED IN THE \_\_\_\_\_ N/A  
ORDINANCE OF CONSENT NO. \_\_\_\_\_ N/A  
PASSED \_\_\_\_\_ N/A DATE \_\_\_\_\_

### PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF THE  
PLACEMENT OF GRAVITY-FED RESIN ON TO THE  
CONCRETE DECKS OF THE SEVEN (7) LISTED  
STRUCTURES.

### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA..... N/A  
(MAINTENANCE PROJECT)  
ESTIMATED CONTRACTOR  
EARTH DISTURBED AREA..... N/A  
(MAINTENANCE PROJECT)  
NOTICE OF INTENT  
EARTH DISTURBED AREA..... N/A  
(MAINTENANCE PROJECT)

### 2010 SPECIFICATIONS

THE STANDARD CONSTRUCTION AND MATERIAL  
SPECIFICATIONS OF THE STATE OF OHIO,  
DEPARTMENT OF TRANSPORTATION, SHALL GOVERN  
THIS IMPROVEMENT EXCEPT WHEN MODIFIED BY  
THE PLANS, SPECIAL PROVISIONS, SUPPLEMENTAL  
SPECIFICATIONS OR PROPOSAL NOTES.

I HEREBY APPROVE THESE PLANS AND DECLARE  
THAT THE MAKING OF THIS IMPROVEMENT WILL NOT  
REQUIRE THE CLOSING OF THE HIGHWAY TO TRAFFIC  
AND THAT PROVISIONS FOR THE MAINTENANCE AND  
SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE  
PLANS AND ESTIMATES.

DOUGLAS L. DILLON, P.E., P.S.  
CUYAHOGA COUNTY ENGINEER

*Douglas L. Dillon* 13 Nov 2012  
CUYAHOGA COUNTY ENGINEER DATE

BONITA G. TEEUWEN, P.E.  
DIRECTOR OF PUBLIC WORKS

*Bonita G. Teeuwen* 11/17/12  
DIRECTOR OF PUBLIC WORKS DATE

EDWARD FITZGERALD  
CUYAHOGA COUNTY EXECUTIVE

*Edward Fitzgerald* 11/17/12  
CUYAHOGA COUNTY EXECUTIVE DATE

JOURNAL NO. CC005 DATE 01-24-2012

RESOLUTION NO. 2012-0004

UNDERGROUND UTILITIES

TWO (2) WORKING DAYS

**BEFORE YOU DIG**

CALL 1-800-362-2764 (TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE

NON MEMBERS

MUST BE CALLED DIRECTLY

- AND -

CALL 1-800-925-0988 (TOLL FREE)  
OHIO OIL & GAS PRODUCERS  
UNDERGROUND PROTECTION SERVICE

FEDERAL PROJECT NO.  
N/A

PID NO.  
N/A

CONSTRUCTION PROJECT NO.  
N/A

RAILROAD INVOLVEMENT  
N/A

BASSETT ROAD (C.R. 118)  
HARVARD AVENUE (C.R. 43)  
ROCKSIDE ROAD (C.R. 53)  
TRISKETT ROAD (C.R. 228)  
WHISKEY ISLAND DRIVE

1  
13



DESIGN SPECIFICATIONS

THIS SET OF PLANS IS FOR SEALING OF THE CONCRETE DECKS ON ALL STRUCTURES. NO STRENGTHENING, STRUCTURAL STEEL REPAIR OR CONCRETE REPAIR WORK IS PROPOSED.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND/OR FIELD MEASUREMENTS. THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO SECTIONS 102.05 AND 105.02 OF THE CUYAHOGA COUNTY ENGINEER'S SPECIFICATION BOOKLET.

CONTRACT BID PRICES SHALL BE BASED UPON THE RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON THE CONTRACTOR'S PREBID EXAMINATION OF THE EXISTING STRUCTURES. ALL PROJECT WORK, HOWEVER, SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

PLANS FOR ALL EXISTING STRUCTURES ARE ON FILE AT THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS, 2100 SUPERIOR VIADUCT, CLEVELAND, OHIO, 44113, AND MAY ALSO BE PROVIDED ELECTRONICALLY WITH THE BID PACKAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH ALL PERTINENT EXISTING DRAWINGS AND DETAILS RELEVANT TO THIS PROJECT.

UTILITIES

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

BASSETT ROAD (C.R. 118) BRIDGE 03.5Z

AT&T OHIO, CLEVELAND WATER DEPARTMENT, COLUMBIA GAS, THE ILLUMINATING COMPANY, TIME WARNER CABLE-BAY VILLAGE, WIDE OPEN WEST, CITY OF BAY VILLAGE

BENNETT ROAD (C.R. 109) BRIDGE 01.8Z

AT&T OHIO, CLEVELAND WATER DEPARTMENT, COLUMBIA GAS, THE ILLUMINATING COMPANY, TIME WARNER CABLE-WEST, WIDE OPEN WEST, CITY OF NORTH ROYALTON

HARVARD AVENUE (C.R. 43) BRIDGE 00.16

AT&T OHIO, CLEVELAND PUBLIC POWVER, CLEVELAND WATER DEPARTMENT, CLEVELAND WATER POLLUTION, DOMINION EAST OHIO GAS, THE ILLUMINATING COMPANY, MCI, NORTHEAST OHIO REGIONAL SEWER DISTRICT, TIME WARNER CABLE-WEST, CITY OF CLEVELAND, VILLAGE OF CUYAHOGA HEIGHTS

LEWIS ROAD (C.R. 174) BRIDGE 02.91

AT&T OHIO, CAVALIER NETWORK, CLEVELAND WATER DEPARTMENT, COLUMBIA GAS, CUYAHOGA COUNTY SANITARY, DOMINION EAST OHIO GAS, THE ILLUMINATING COMPANY, TIME WARNER CABLE-WEST, CITY OF NORTH OLMSTED, OLMSTED TOWNSHIP

ROCKSIDE ROAD (C.R. 53) BRIDGE 03.41

AT&T OHIO, CAVALIER NETWORK, CLEVELAND WATER DEPARTMENT, DOMINION EAST OHIO GAS, THE ILLUMINATING COMPANY, LEVEL 3 COMMUNICATIONS, MCI, NORTHEAST OHIO REGIONAL SEWER DISTRICT, TIME WARNER CABLE-EAST, WIDE OPEN WEST, VILLAGE OF VALLEY VIEW

TRISKETT ROAD (C.R. 228) BRIDGE 01.34

AT&T OHIO, CLEVELAND PUBLIC POWER, CLEVELAND WATER DEPARTMENT, CLEVELAND WATER POLLUTION, COX CABLE, DOMINION EAST OHIO GAS, THE ILLUMINATING COMPANY, MCI, QWEST NATIONAL, QWEST OHIO/DAYTON, TIME WARNER CABLE-WEST, XO COMMUNICATIONS, CITY OF CLEVELAND

WHISKEY ISLAND DRIVE BRIDGE 00.93

AT&T OHIO, CLEVELAND PUBLIC POWVER, CLEVELAND WATER DEPARTMENT, CLEVELAND WATER POLLUTION, DOMINION EAST OHIO GAS, ELANTIC TELECOMMUNICATIONS, THE ILLUMINATING COMPANY, JOB 8, LEVEL 3 COMMUNICATIONS, MCI, NORTHEAST OHIO REGIONAL SEWER DISTRICT, QWEST NATIONAL, QWEST OHIO/DAYTON, TIME WARNER CABLE-WEST, CITY OF CLEVELAND

REFER TO "SECTION 400 PROPOSAL NOTES" OF THE CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET FOR CONTACT INFORMATION FOR ALL REFERENCED UTILITIES.

CALL OHIO UTILITIES PROTECTION SERVICE  
TWO (2) WORKING DAYS BEFORE YOU DIG  
TOLL FREE NO. 1-800-362-2764  
(NON-MEMBERS MUST BE CALLED DIRECTLY)

CALL OHIO OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS)  
TOLL FREE NO. 1-800-925-0988

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL SUBSIDIARY AGREEMENT GOVERNING COMPLETION OF THIS PROJECT.

WORK LIMITS

THE WORK LIMITS FOR EACH STRUCTURE SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION (INCLUDING ERECTION, MAINTENANCE AND REMOVAL) OF ALL WORKZONE TRAFFIC CONTROL AND WORKZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS, EXCEPT WHERE OTHERWISE NOTED, SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

DEFINITIONS AND TERMS

WHEREVER THERE APPEARS, IN THE STANDARD SPECIFICATIONS (ODOT ITEMIZED CMS), SUPPLEMENTAL SPECIFICATIONS OR PROPOSAL NOTES, THE TERM "THE STATE", "DIRECTOR OF TRANSPORTATION", "DEPARTMENT", "DISTRICT CONSTRUCTION ENGINEER (DCE)", "ENGINEER", OR ANY OTHER TERM DESIGNATINING ANY REPRESENTATIVE OR EMPLOYEE OF THE STATE OR ITS DEPARTMENT OF TRANSPORTATION, SUCH TERM SHALL, FOR THE PURPOSE OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING AND DESIGNATING THE RESPECTIVE OFFICER OR EMPLOYEE OF CUYAHOGA COUNTY WHOSE DUTY OR FUNCTION IT IS TO DEAL WITH THE SUBJECT MATTER IN CONNECTION WITH WHICH SUCH TERM IS USED AND SPECIFICALLY:

THE STATE	-SHALL MEAN CUYAHOGA COUNTY
DEPARTMENT	-SHALL MEAN THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR	-SHALL MEAN THE CUYAHOGA COUNTY DIRECTOR OF PUBLIC WORKS, HIS/HER DEPUTIES OR ANY ENGINEER DESIGNATED AS THE DIRECTOR'S REPRESENTATIVE.
DISTRICT CONSTRUCTION ENGINEER (DCE) OR ENGINEER	-SHALL MEAN THE AREA CONSTRUCTION ENGINEER, OR THE DULY AUTHORIZED AGENT OR REPRESENTATIVE OF THE CUYAHOGA COUNTY DIRECTOR OF PUBLIC WORKS OR THE CUYAHOGA COUNTY ENGINEER ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR THE PURPOSES OF CONSTRUCTION ENGINEERING AND ADMINISTRATION OF THE CONTRACT.
LABORATORY	-SHALL MEAN ANY LABORATORY DESIGNATED BY THE COUNTY.

RIGHT-OF-WAY

ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.

FIELD OFFICE

DUE TO THE PROJECT'S SHORT DURATION, A FIELD OFFICE SHALL NOT BE PROVIDED.

ITEM SPECIAL-CELLULAR PHONE

THE CONTRACTOR SHALL PROVIDE TWO (2) CELLULAR PHONES FOR THE USE BY CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION SUPERVISORS AND/OR INSPECTORS.

PAYMENT SHALL BE MADE AT THE CONTRACT BID PRICE FOR:

ITEM SPECIAL-CELLULAR PHONE 2 EACH

GENERAL PROVISIONS

ALL REFERENCES TO THE GENERAL PROVISIONS (SECTION 100) OF THE OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS) THAT ARE CITED IN THE ITEMIZED SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, PROPOSAL NOTES, PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS SHALL, FOR THE PURPOSE OF THIS CONTRACT, BE CONSIDERED AND TAKEN AS MEANING THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS AS CONTAINED IN THE "CUYAHOGA COUNTY ENGINEER SPECIFICATION BOOKLET". THE SUBSECTION NUMBERS AND TOPICS USED IN THE COUNTY'S GENERAL PROVISIONS CORRESPOND TO THOSE CONTAINED IN THE ODOT CMS.

CONSTRUCTION NOISE

FOR THE CITY OF BAY VILLAGE:

THE CITY OF BAY VILLAGE PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BETWEEN THE HOURS OF 9:00 PM AND 8:00 AM DAILY.

FOR THE CITY OF CLEVELAND:

THE CITY OF CLEVELAND PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM DAILY, EXCEPT BY SPECIAL PERMIT ISSUED BY THE CITY THRU THE TRAFFIC AND SAFETY DEPARTMENT.

FOR THE VILLAGE OF CUYAHOGA HEIGHTS:

THE VILLAGE OF CUYAHOGA HEIGHTS PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BEFORE 7:00 AM OR AFTER 7:00 PM MONDAY THRU SATURDAY OR ALL DAY ON SUNDAYS AND HOLIDAYS, EXCEPT BY SPECIAL PERMIT ISSUED BY THE VILLAGE THRU THE MAYOR.

FOR THE CITY OF NORTH OLMSTED:

THE CITY OF NORTH OLMSTED PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BEFORE 7:30 AM OR AFTER 9:00 PM MONDAY THRU SATURDAY AND BEFORE 10:00 AM OR AFTER 8:00 PM ON SUNDAY, EXCEPT BY SPECIAL PERMIT ISSUED BY THE CITY THRU THE SAFETY DIRECTOR.

FOR THE CITY OF NORTH ROYALTON:

THE CITY OF NORTH ROYALTON PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BEFORE 8:00 AM OR AFTER 8:00 PM MONDAY THRU FRIDAY, BEFORE 8:00 AM OR AFTER 5:00 PM ON SATURDAY AND NO WORK ON SUNDAY, EXCEPT BY SPECIAL PERMIT ISSUED BY THE CITY THRU THE CITY ENGINEER.

FOR OLMSTED TOWNSHIP:

OLMSTED TOWNSHIP PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM MONDAY THRU FRIDAY OR ALL DAY SATURDAY AND SUNDAY EXCEPT BY SPECIAL PERMIT ISSUED BY THE TOWNSHIP.

FOR THE VILLAGE OF VALLEY VIEW:

THE VILLAGE OF VALLEY VIEW PROHIBITS THE OPERATION OF CONSTRUCTION TOOLS AND EQUIPMENT BEFORE 8:00 AM OR AFTER 9:00 PM MONDAY THROUGH SATURDAY OR BEFORE 9:00 AM OR AFTER 8:00 PM ON SUNDAYS, EXCEPT BY SPECIAL PERMIT ISSUED BY THE VILLAGE THRU THE MAYOR.

DESIGN AGENCY  
CUYAHOGA COUNTY  
DEPARTMENT OF PUBLIC WORKS

DATE  
11/08/12

REVIEWED  
BGF

DRAWN  
JLG

DESIGNED  
JLG

STRUCTURE FILE NO.  
1A32728 1A35069 1A39061 1A54371  
1A52476 1A50236 1A54400

REVISION  
11/08/12

GENERAL NOTES

BASSETT ROAD (C.R. 118)  
HARVARD AVENUE (C.R. 43)  
ROCKSIDE ROAD (C.R. 53)  
LEWIS ROAD (C.R. 174)  
TRISKETT ROAD (C.R. 228)  
WHISKEY ISLAND DRIVE

2  
13



COOPERATION BETWEEN CONTRACTORS

IT IS ANTICIPATED THAT OTHER CONTRACTORS WILL BE WORKING ON PROJECTS ADJACENT TO OR WITHIN THE LIMITS OF THIS PROJECT, EITHER FOR THE COUNTY OR FOR OTHER PUBLIC AGENCIES. SPECIFICALLY, THE CITY OF CLEVELAND IS EXPECTED TO BEGIN CONSTRUCTION WORK ON TRISKETT ROAD FROM LORAIN AVENUE TO WEST 117TH STREET IN JULY 2013 WHICH MAY IMPACT THE CONTRACTOR'S WORK ON TRISKETT ROAD BRIDGE 01.34. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS OPERATIONS, INCLUDING PROVISIONS FOR THE MAINTENANCE OF TRAFFIC, WITH THE CONTRACTORS OF OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THIS CONTRACT. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DRAWN TO SECTION 105.08 OF THE CUYAHOGA COUNTY ENGINEER'S GENERAL PROVISIONS. NO WAIVER OF ANY OF THE PROVISIONS OF SECTION 105.08 IS INTENDED.

WORK ON MORE THAN ONE STRUCTURE

THIS PROJECT INCLUDES WORK ON MORE THAN ONE (1) STRUCTURE. THE CONTRACTOR MAY WORK ON TWO (2) OR MORE STRUCTURES SIMULTANEOUSLY SUBJECT TO THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER. THE FOLLOWING REQUIREMENTS APPLY TO THIS CONTRACT:

1.

THE PROGRESS SCHEDULE REQUIRED IN 108.02 SHALL ALSO SHOW THE CONTRACTOR'S PLAN TO CARRY OUT THE WORK REQUIRED ON EACH STRUCTURE INDIVIDUALLY AND GIVE START AND COMPLETION DATES FOR EACH STRUCTURE.
2.

THE REQUIREMENTS OF 108.03 SHALL APPLY SPECIFICALLY TO EACH STRUCTURE.
3.

THE REQUIREMENTS OF 108.04 SHALL APPLY SPECIFICALLY TO EACH STRUCTURE. IN DETERMINING WHETHER THE CONTRACTOR HAS COMPLIED WITH THE REQUIREMENT TO ASSURE THE LEAST INTERFERENCE WITH TRAFFIC, THE ENGINEER SHALL ADDITIONALLY TAKE INTO CONSIDERATION SUCH FACTORS AS:

A.

THE LENGTH AND DURATION OF LANE CLOSURES;

B.

THE SKID RESISTANCE OF THE NEWLY SEALED BRIDGE DECK;

C.

ACCESS TO DRIVEWAYS;

D.

UNNECESSARY PERIODS OF INACTIVITY BY THE CONTRACTOR;

E.

WHETHER THE OPENING OF WORK ON A SECOND STRUCTURE WILL BE TO THE PREJUDICE OR DETRIMENT OF WORK ALREADY BEGUN ON ANOTHER STRUCTURE.
4.

THE REQUIREMENTS OF 108.05 SHALL APPLY SPECIFICALLY TO EACH STRUCTURE. THE CONTRACTOR SHALL AT ALL TIMES EMPLOY SUFFICIENT LABOR AND EQUIPMENT FOR PROSECUTING THE SEVERAL CLASSES OF WORK TO FULL COMPLETION IN THE MANNER AND TIME REQUIRED BY THESE SPECIFICATIONS.
5.

LIQUIDATED DAMAGES, BASED ON THE TOTAL CONTRACT AS SPECIFIED IN 108.07, SHALL APPLY FOR EACH CALENDAR DAY THAT A SPECIFIC STRUCTURE REMAINS UNCOMPLETED AFTER THE STRUCTURE'S SPECIFIC COMPLETION DATE, AS DETERMINED BY THE CONTRACTOR'S ORIGINALLY APPROVED PROGRESS SCHEDULE. DUE ACCOUNT WILL BE TAKEN OF ANY ADJUSTMENT OF THE SPECIFIC STRUCTURE'S COMPLETION DATE GRANTED UNDER 108.06.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY IN WRITING THE FOLLOWING AGENCIES AT LEAST ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION, AND AT LEAST 72 HOURS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGE IN TRAFFIC PATTERN OR CLOSING ANY STREET TO TRAFFIC:

THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS—PUBLIC INFORMATION OFFICER  
AND THE BRIDGE INSPECTION AND MAINTENANCE DEPARTMENT  
THE GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
THE UNITED STATES POSTAL SERVICE BRANCHES:  
A STATION CLEVELAND, BAY VILLAGE, ERIEVIEW, GARFIELD HEIGHTS, INDEPENDENCE, NEWBURG, NORTH OLMSTED, NORTH ROYALTON  
THE BOARDS OF EDUCATION FOR THE CITIES OF CLEVELAND, GARFIELD HEIGHTS, INDEPENDENCE, NORTH OLMSTED, NORTH ROYALTON, OLMSTED FALLS AND FOR THE VILLAGES OF CUYAHOGA HEIGHTS AND BAY VILLAGE  
THE POLICE, FIRE AND SERVICE DEPARTMENTS FOR THE CITIES OF CLEVELAND, NORTH OLMSTED, NORTH ROYALTON, FOR THE VILLAGES OF CUYAHOGA HEIGHTS, VALLEY VIEW AND BAY VILLAGE AND OLMSTED TOWNSHIP  
THE CITY OF CLEVELAND COMMISSIONER OF TRAFFIC ENGINEERING, COMMISSIONER OF ENGINEERING AND CONSTRUCTION, COMMISSIONER OF EMERGENCY MEDICAL SERVICES, POLICE TRAFFIC COMMISSIONER, AND FIRE CHIEF.

CONSTRUCTION TRAFFIC

ALL CONSTRUCTION TRAFFIC SHALL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA. USE OF THE LOCAL RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL LAW ENFORCEMENT AUTHORITY.

ITEM 614—MAINTAINING TRAFFIC. AS PER PLAN

IT IS ASSUMED THAT ALL WORK ON ALL STRUCTURES CAN BE PERFORMED DURING NORMAL WORKING HOURS. HOWEVER, THE CONTRACTOR MAY FIND IT PREFERABLE TO WORK ON SOME STRUCTURES EITHER AT NIGHT OR ON WEEKENDS. IF SO, THEN THE CONTRACTOR SHALL SEEK APPROVAL FOR SUCH WORK FROM THE ENGINEER AND THE MUNICIPALITY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ANY LOCAL ORDINANCE(S) GOVERNING SUCH WORK.

IF THE CONTRACTOR REQUESTS TO PERFORM NIGHT TIME WORK AND IS APPROVED, HE/SHE SHALL SUBMIT A LIGHTING PLAN TO THE ENGINEER FOR APPROVAL. IT SHALL INCLUDE THE TYPE OF WORK TO BE PERFORMED, THE DURATION OF THE WORK, THE LOCATION OF THE INTENDED WORK, AND HIS/HER PROPOSED LIGHTING PLAN.

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS. ALL TEMPORARY LIGHTING REQUIRED FOR NIGHT TIME WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614—MAINTAINING TRAFFIC, AS PER PLAN.

EFFORTS SHALL BE MADE TO LIMIT ANY LANE CLOSURES IN THE RUSH HOUR DIRECTION OF TRAFFIC FLOW WEEKDAYS FROM 6:00 AM TO 8:00 AM AND FROM 5:00 PM TO 7:00 PM.

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

NEW YEARS DAY	(JANUARY 1)
MEMORIAL DAY	(LAST MONDAY IN MAY)
INDEPENDENCE DAY	(JULY 4)
LABOR DAY	(FIRST MONDAY IN SEPTEMBER)
THANKSGIVING DAY	(FOURTH THURSDAY IN NOVEMBER)
CHRISTMAS DAY	(DECEMBER 25)

ANY OTHER HOLIDAY OR EVENT REQUESTED BY THE COUNTY OR MUNICIPALITY.

THROUGH TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SECTION 614 AND THE DETAILS AND NOTES ON STANDARD CONSTRUCTION DRAWINGS MT-95.31, MT-95.32, MT-95.50, MT-95.60, MT-96.11, MT-96.20, MT-96.26, MT-97.10 AND, FOR PEDESTRIAN TRAFFIC, MT-110.10. FOR A STRUCTURE HAVING ONLY TWO (2) LANES OF TRAVEL, ONE (1) LANE HAVING A MINIMUM WIDTH OF TEN FEET (10'-0") SHALL BE OPEN TO TRAFFIC AT ALL TIMES DURING THE HOURS PERMITTED. FOR STRUCTURES WITH MORE THAN TWO (2) LANES OF TRAVEL, A MINIMUM OF ONE (1) LANE, TEN FEET (10'-0") MINIMUM WIDTH, IN EACH DIRECTION SHALL BE OPEN TO TRAFFIC AT ALL TIMES DURING THE HOURS PERMITTED. THE STANDARD DRAWINGS LISTED ABOVE AND ON THE TITLE SHEET CAN BE FOLLOWED AND/OR ADAPTED FOR MOST LOCATIONS.

FOR EACH STRUCTURE, THE CONTRACTOR SHALL DEVELOP A MAINTENANCE OF TRAFFIC PLAN (INCLUDING A PLAN DRAWING) AND PRESENT IT TO THE ENGINEER FOR APPROVAL TEN (10) WORKING DAYS BEFORE BEGINNING WORK AT EACH SPECIFIC STRUCTURE. THE PLAN SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS, THE ABOVE PERMITTED LANE CLOSURE TIMES, AND THE ODOT CMS. NO WORK SHALL BEGIN ON A PARTICULAR STRUCTURE UNTIL THE MAINTENANCE OF TRAFFIC PLAN FOR THAT STRUCTURE HAS BEEN APPROVED BY THE ENGINEER.

IN ADDITION, THE CITY OF CLEVELAND REQUIRES THAT THE CONTRACTOR APPLY TO ITS BUREAU OF LICENSE AND ASSESSMENT FOR A STREET OPENING PERMIT AND SUBMIT MAINTENANCE OF TRAFFIC PLANS TO ANDY CROSS, TRAFFIC ENGINEER, 601 LAKESIDE AVE. ROOM 25, CLEVELAND, OH 44114; PH: (216) 664-3195 FOR APPROVAL AT LEAST TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK ON HARVARD AVENUE BRIDGE 00.16, TRISKETT ROAD BRIDGE 01.34 AND WHISKEY ISLAND DRIVE BRIDGE 00.93. ALSO, THE VILLAGE OF CUYAHOGA HEIGHTS REQUIRES THAT THE CONTRACTOR SHALL SUBMIT HIS/HER MAINTENANCE OF TRAFFIC PLANS TO TODD SCIANO, VILLAGE ENGINEER, 4863 EAST 71ST STREET, CUYAHOGA HEIGHTS, OHIO 44125; PH: (216) 642-1130, EXT. 123 FOR APPROVAL AT LEAST TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK ON HARVARD AVENUE BRIDGE 00.16.

IMMEDIATELY PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL INSTALL CONSTRUCTION WARNING SIGNS G20-1 FACING TRAFFIC ENTERING THE PROJECT, AND G20-2 SIGNS FACING TRAFFIC LEAVING THE PROJECT; THEIR PLACEMENT SHALL BE AS SHOWN IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CHAPTER 6H. TYPICAL APPLICATIONS). ADDITIONAL G20-1 SIGNS SHALL BE PLACED AFTER EACH MAJOR INTERSECTION, IN BOTH DIRECTIONS. ALSO, A W20-1 SIGN SHALL BE PLACED ON THE APPROACHES TO THE PROJECT A MINIMUM OF 500 FEET IN ADVANCE OF THE WORK LIMITS. IF DETERMINED NECESSARY BY THE ENGINEER, ADDITIONAL G20-1, G20-2 AND W20-1 SIGNS SHALL BE APPROPRIATELY PLACED ON THE MAJOR INTERSECTING STREET(S) IN THE IMMEDIATE VICINITY OF THE WORK. THE TRAFFIC CONTROL DEVICES SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS SHALL BE IN ADDITION TO THOSE INDICATED ABOVE.

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL CHANNELS BY USING PLASTIC DRUMS AND ANY TEMPORARY TRAFFIC SIGNS, TEMPORARY PAVEMENT MARKINGS, FLASHING ARROW PANELS, ETC. NECESSARY FOR THE COMPLETION OF THE WORK. IF APPROVED BY THE ENGINEER, 42" TALL CONES CAN BE USED IN PLACE OF THE PLASTIC DRUMS AS SPECIFIED ON THE STANDARD DRAWINGS. ALL TRAFFIC CONTROL DEVICES USED SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

EXISTING TRAFFIC CONTROL DEVICES (SIGNS AND/OR TRAFFIC SIGNALS) LOCATED WITHIN THE WORK AREA WHICH ARE REQUIRED FOR INTERIM TRAFFIC CONTROL SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. EXISTING TRAFFIC CONTROL DEVICES NOT REQUIRED FOR INTERIM TRAFFIC CONTROL BUT, IN THE OPINION OF THE ENGINEER, MAY CONFLICT WITH THE MAINTENANCE OF TRAFFIC PLAN SHALL BE COVERED OR TEMPORARILY REMOVED DURING WORK OPERATIONS. ALL SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE REQUIRED WORK.

ALL ACCESS TO ABUTTING PROPERTY SHALL BE MAINTAINED IN A SAFE AND SATISFACTORY MANNER. THE LENGTH AND DURATION OF THE LANE CLOSURES AND/OR TRAFFIC RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. THE INTENT IS TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS 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.



*THE CONTRACTOR SHALL ALSO MAINTAIN ADEQUATE PEDESTRIAN WALKS AT ALL INTERSECTIONS WHERE DIRECTED BY THE ENGINEER.*

THE CONTRACTOR SHALL SEAL THE PEDESTRIAN SIDEWALKS IN TWO PHASES.  
PHASE ONE:  
 CLOSE AND SEAL THE WEST SIDE PEDESTRIAN SIDEWALK WHILE MAINTAINING  
 THE EAST SIDE PEDESTRIAN SIDEWALK PER MT-110.10. INSTALL SIGNS AT  
 CEDAR POINT ROAD AND RAINBOW DRIVE PER MT-110.10.  
PHASE TWO:  
 CLOSE AND SEAL THE EAST SIDE PEDESTRIAN SIDEWALK WHILE MAINTAINING  
 THE WEST SIDE PEDESTRIAN SIDEWALK PER MT-110.10. INSTALL SIGNS AT  
 CEDAR POINT ROAD AND RAINBOW DRIVE PER MT-110.10.

THE CONTRACTOR SHALL SEAL THE PEDESTRIAN BRIDGE FIRST AND PROVIDE PROTECTED PEDESTRIAN ACCESS ON THE WHISKEY ISLAND DRIVE BRIDGE 00.93 PER MT-110.10.

IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR FAILS TO COMPLY WITH THESE REQUIREMENTS OR THE PROVISIONS OF THE APPROVED MAINTENANCE OF TRAFFIC PLAN, THE ENGINEER SHALL SUSPEND WORK UNTIL ALL REQUIREMENTS ARE COMPLIED WITH. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

*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.*

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614—MAINTAINING TRAFFIC, AS PER PLAN.

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 A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).*

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) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP), IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE 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 CONTRACTOR. 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 DETERMINATE 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:

CITY OF BAY VILLAGE  
POLICE DEPARTMENT  
28000 WOLF ROAD  
PH: 440.871.1234

CITY OF NORTH ROYALTON  
POLICE DEPARTMENT  
14000 BENNETT ROAD  
PH: 440.237.8686

VILLAGE OF CUYAHOGA HEIGHTS  
POLICE DEPARTMENT  
5480 GRANT AVE  
PH: 216.883.6800

CITY OF CLEVELAND  
DIVISION OF POLICE  
1300 ONTARIO STREET  
PH: 216.623.5000

FOR THE VILLAGE OF CUYAHOGA HEIGHTS:

THE CONTRACTOR SHALL BE AWARE THAT THE VILLAGE MAY REQUIRE A LAW ENFORCEMENT OFFICER WITH PATROL CAR DURING ALL LANE CLOSURES. THE VILLAGE REQUIRES THAT TO FURTHER MAINTAIN UNINTERRUPTED VEHICULAR TRAFFIC AND TO REASONABLY AND ADEQUATELY PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC AGAINST ACCIDENTS, THE PERMITEE SHALL HIRE ONE OR MORE LAW ENFORCEMENT OFFICERS TO DIRECT TRAFFIC AND PERFORM ROAD SAFETY CONTROL SERVICES AT THE HOURS SPECIFIED BY THE VILLAGE AND AT RATES SET FORTH BY THE VILLAGE.

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.

CITY OF NORTH OLMSTED  
POLICE DEPARTMENT  
5200 DOVER CENTER ROAD  
PH: 440.777.3535

OLMSTED TOWNSHIP  
POLICE DEPARTMENT  
26900 COOK ROAD  
PH: 440.235.3335

VILLAGE OF VALLEY VIEW  
POLICE DEPARTMENT  
6899 HATHAWAY ROAD  
PH: 216.524.9687

DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm

INSTALLATION OF PAVEMENT MARKINGS

THE CONTRACTOR MAY REDUCE THE NUMBER OF THROUGH TRAFFIC LANES BY 50%, AS DIRECTED BY THE ENGINEER, IN ORDER TO REMOVE PAVEMENT MARKINGS, OR TO INSTALL WORK ZONE OR PERMANENT PAVEMENT MARKINGS.

ALL WORK ZONE PAVEMENT MARKINGS AND SIGNS REQUIRED FOR A PARTICULAR LANE CLOSURE OR TRAFFIC PATTERN SHALL BE INSTALLED ON A SINGLE WORK DAY, AND THE CORRESPONDING TRAFFIC PATTERN, AS DETAILED ON THE PLANS, SHALL BE IMPLEMENTED IMMEDIATELY. IN ADDITION, THE REQUIREMENTS OF 614.11 (G) SHALL APPLY.

ALTHOUGH PERMANENT PAVEMENT MARKINGS ARE TO BE INSTALLED AFTER PROPER SEALING OF THE CONCRETE BRIDGE DECK(S), PAVEMENT MARKING PLAN SHEETS HAVE NOT BEEN INCLUDED IN THE CONTRACT PLANS. IN LIEU OF A PAVEMENT MARKING PLAN, THE CONTRACTOR SHALL, PRIOR TO THE START OF WORK ON ANY STRUCTURE, PREPARE AN INVENTORY AND LOG OF ALL EXISTING PAVEMENT MARKINGS, INCLUDING LANE WIDTHS, NO PASSING ZONES, CHANNELIZATIONS, ETC. FOR USE IN RESTORING THE MARKINGS AT THE END OF THE WORK ON THE STRUCTURE. THE CONTRACTOR SHALL DELIVER TWO (2) COPIES OF THE INVENTORY AND LOG TO THE ENGINEER BEFORE BEGINNING ANY PAVEMENT MARKING REMOVALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE VARIOUS FINAL PAVEMENT MARKINGS, INCLUDING LOCATION OF NO PASSING ZONES, CENTER LINES, LANE LINES, CHANNELIZING LINES, LANE ARROWS, ETC. ON THE NEWLY SEALED CONCRETE DECK SURFACE(S), IN ACCORDANCE WITH SECTION 641.06.

THE FINAL PAVEMENT MARKINGS SHALL BE PLACED AS SOON AS THE SEALER HAS PROPERLY CURED. THE FINAL PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR ORIGINAL PATTERNS AND LOCATIONS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE COST OF LOGGING AND PRE-MARKING SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS PAVEMENT MARKING ITEMS. NO SEPERATE PAYMENT WILL BE MADE.

ALL PAVEMENT MARKING QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY ON SHEET 6/13. PAVEMENT MARKING QUANTITY CALCULATIONS ARE SHOWN ON EACH PERTINENT SITE PLAN (SHEETS 7/13 THRU 13/13) AS ESTIMATES OF THE TYPE AND QUANTITY OF THE VARIOUS PAVEMENT MARKINGS TO BE INSTALLED UNDER ITEM 646. PAYMENT SHALL BE BASED ON THE MEASUREMENTS OF THE FINAL QUANTITIES INSTALLED.

ITEM 646-CHANNELIZING LINE. 8":

ITEM 646-EDGE LINE. 4":

ITEM 646-LANE LINE. 4"

IT IS ASSUMED THAT ALL EDGE LINES AND LANE LINES ARE 4" IN WIDTH AND ALL CHANNELIZING LINES ARE 8" IN WIDTH. THE CONTRACTOR SHALL MEASURE THE WIDTH OF THE EXISTING PAVEMENT MARKINGS BEFORE REMOVAL. THIS ADDITIONAL WORK SHALL BE CONSIDERED INCIDENTAL TO THE PERTINENT ITEM. ALL PROPOSED PAVEMENT MARKING WIDTHS SHALL MATCH THE EXISTING PAVEMENT MARKING WIDTHS FOR WHICH THEY ARE REPLACING.

ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN

ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH SECTIONS 512.02 AND 512.06 OF THE ODOT CMS EXCEPT AS MODIFIED BELOW.

THE MATERIAL USED FOR TREATING THE CONCRETE BRIDGE DECKS SHALL BE:

MARK 135 SAFE-T-SEAL  
POLY-CARB  
33095 BAINBRIDGE ROAD  
SOLON, OH 44139  
PH: (440) 248-1223

DURAGUARD HM SEALER  
CHEMMASTERS, INC.  
300 EDWARDS STREET  
MADISON, OH 44057-3112  
PH: (440) 428-2105

DURAL 335  
THE EUCLID CHEMICAL COMPANY  
19218 REDWOOD ROAD  
CLEVELAND, OHIO 44110  
PH: (800) 321-7628  
(216) 531-9222

THE BRIDGE INSPECTION AND MAINTENANCE SECTION OF THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY DECK SURFACE PREPARATION WORK COMMENCING. THE BRIDGE INSPECTION AND MAINTENANCE SECTION MAY ELECT TO HAVE ITS REPRESENTATIVE ON SITE TO WITNESS THE SURFACE PREPARATION AND/OR THE DECK SEALING OPERATIONS.

EXISTING PAVEMENT MARKINGS ON ALL BRIDGE DECKS AND APPROACH SLABS SHALL BE REMOVED PER CMS 512.06B AND 641.10 PRIOR TO APPLYING THE GRAVITY-FED RESIN. PAVEMENT MARKINGS ON ALL STRUCTURES CONSIST OF PAINT MATERIAL EXCEPT FOR TRISKETT ROAD BRIDGE 01.34 WHERE THERMOPLASTIC MATERIAL IS USED. ALL COSTS ASSOCIATED WITH REMOVING THE EXISTING PAVEMENT MARKINGS FROM ALL BRIDGE DECKS AND APPROACH SLABS AS DETAILED IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN.

ALL ADJACENT SURFACES INCLUDING EXPANSION JOINTS, CURB PLATES, CONCRETE BARRIER, WATER VALVES, RAISED PAVEMENT MARKERS, TIMBER RAILS, STEEL POSTS, ETC., SHALL BE MASKED DURING THE SURFACE PREPARATION AND RESIN APPLICATION PROCESSES. THE GRAVITY-FED RESIN MATERIAL SHALL BE APPLIED WHEN THE SURFACE TEMPERATURE OF THE CONCRETE IS AT LEAST 5°F ABOVE THE DEW POINT TEMPERATURE AND THE AMBIENT AIR TEMPERATURE IS BETWEEN 40°F AND 90°F.

IT IS RECOMMENDED THAT THE GRAVITY-FED RESIN MATERIAL IS MIXED IN 5-GALLON BATCHES AND APPLIED MANUALLY WITH SQUEEGEES, BROOMS, ETC. TO ASSURE THE QUALITY OF THE MATERIAL AND THE THOROUGH COVERAGE OF THE DECK SURFACE.

THE CONTRACTOR MAY ALSO CHOOSE TO MIX AND PLACE THE MATERIAL WITH PRESSURIZED DISPENSING EQUIPMENT. IF SO, THE MATERIAL MUST FIRST BE APPLIED TO A DISCRETE TEST AREA ON THE BRIDGE DECK, SUCH AS IN A BERM, MEDIAN OR GUTTER, TO DEMONSTRATE THE APPLICATION EQUIPMENT, MATERIAL COVERAGE RATES, DRYING TIMES, FINAL CURE, ETC. THE SPECIFIC LOCATION AND APPLICATION TIME FOR THE TEST AREA SHALL BE PROPOSED AT LEAST THREE (3) DAYS PRIOR TO APPLYING THE RESIN MATERIAL. A MANUFACTURER'S REPRESENTATIVE FOR THE RESIN MATERIAL AND THE APPLICATION EQUIPMENT MUST BE PRESENT TO FAMILIARIZE THE CONTRACTOR AND ENGINEER WITH THE MATERIAL AND THE SET-UP AND USE OF THE EQUIPMENT. THE REPRESENTATIVES SHALL DIRECT AT LEAST ONE COMPLETE TEST AREA OF THE BRIDGE DECK (MINIMUM OF FIFTY (50) SQUARE FEET) AND MUST BE PRESENT DURING THE APPLICATION OF THE MATERIAL AND THE DRYING/CURING OF THE TEST AREA. AFTER CONDUCTING THE TEST TO THE SATISFACTION OF THE ENGINEER, THE REPRESENTATIVES FOR THE RESIN MATERIAL AND THE APPLICATION EQUIPMENT SHALL PROVIDE WRITTEN STATEMENTS CONFIRMING THAT THE EQUIPMENT AND MATERIAL MEET THEIR SPECIFICATIONS, THE APPLICATION EQUIPMENT IS IN PROPER WORKING CONDITION AND THAT THE PLACED RESIN MATERIAL HAS CURED PROPERLY. ANY SIGNIFICANT CHANGES WITH THE MATERIAL AND/OR THE EQUIPMENT THAT ARE RECOMMENDED BY THE REPRESENTATIVES FOR ANY UNANTICIPATED SITUATIONS PRIOR TO OR DURING THE ACTUAL TREATMENT OF THE BRIDGE DECK MUST BE APPROVED BY THE ENGINEER PRIOR TO THE ADOPTION OF SUCH CHANGES.

NO STANDING WATER SHALL BE PRESENT DURING APPLICATION OF THE GRAVITY-FED RESIN.

THE ENTIRE SEALED AREA OF THE BRIDGE DECK SHALL HAVE SAND BROADCAST BY MECHANICAL MEANS AT THE RATE SPECIFIED IN SECTION 512.06(C) OF THE ODOT CMS. THE SAND SHALL BE A UNIFORMLY GRADED AGGREGATE CONFORMING TO THE QUALITY REQUIREMENTS OF SECTION 703 OF THE ODOT CMS AND SHALL CONFORM TO THE FOLLOWING LIMITS FOR GRADING:

SIEVE SIZE	% PASSING MAX.
NO. 4 (4.5 mm)	100
NO. 8 (2.36 mm)	90 - 100
NO. 20 (850 µm)	5 - 15
NO. 50 (300 µm)	0 - 5

IT IS THE INTENTION OF THIS SPECIFICATION TO ALLOW THE USE OF COMMERCIALLY AVAILABLE BLAST SANDS APPLIED BY COMMON LAWN BROADCAST TYPE SEEDER/SPREADER. SAND SHALL BE PLACED BETWEEN 45 TO 75 MINUTES BEHIND THE RESIN SPREADING FRONT DEPENDING ON AIR AND SURFACE TEMPERATURES. THE CONTRACTOR SHALL PROVIDE TIMELY AND SUFFICIENT BROADCAST OF THE AGGREGATE TO INSURE THAT THE SKID RESISTANCE ON THE DECK DOES NOT DROP BELOW 40 AFTER CURING OF THE RESIN. IF THE SURFACE CONTAINS LARGE, DEEP CRACKS, THE LOW VISCOSITY LIQUID COULD RUN COMPLETELY THROUGH THE CONCRETE SLAB. IN THESE AREAS, A SECOND COAT WILL BE REQUIRED AFTER THE FIRST COAT HAS STARTED TO CURE.

BEFORE RESIN HARDENS, IMPERFECTIONS OR SPALLS WITH STANDING LIQUID SHALL BE FILLED WITH COMMERCIAL QUALITY CONCRETE OR SANDBLAST SAND, AND FINISHED TO A UNIFORM SURFACE. THE SAND SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 0.5 OF THE PERCENT OF ABSORPTION WHEN TREATED IN ACCORDANCE TO CALIFORNIA TEST 226.

CLEANING AND FLUSHING OF EQUIPMENT, TOOLS, ETC. SHALL BE DONE WITH AN APPROPRIATE SOLVENT, AS APPROVED BY THE ENGINEER, IN SUCH A MANNER AS TO MINIMIZE PERSONAL AND ENVIRONMENTAL HAZARDS.

PAYMENT FOR THIS ITEM AS DESCRIBED ABOVE SHALL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
512	SQ YD	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN

DESIGN AGENCY  
CUYAHOGA COUNTY  
DEPARTMENT OF PUBLIC WORKS

DATE  
11/08/12

REVIEWED  
BOG

DRAWN  
JLG

DESIGNED  
JLG

STRUCTURE FILE NO.  
1A32728 1A35068 1A35061 1A34371  
1A32478 1A30236 1A34800

11/08/12

GENERAL NOTES

BASSETT ROAD (C.R. 1181)  
HARVARD AVENUE (C.R. 431)  
ROCKSIDE ROAD (C.R. 531)  
WHISKEY ISLAND DRIVE

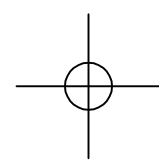
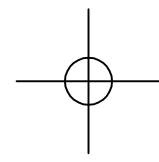
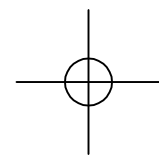
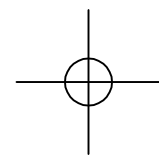
BENNETT ROAD (C.R. 1091)  
LEWIS ROAD (C.R. 1741)  
TRISKETT ROAD (C.R. 2281)

5  
13

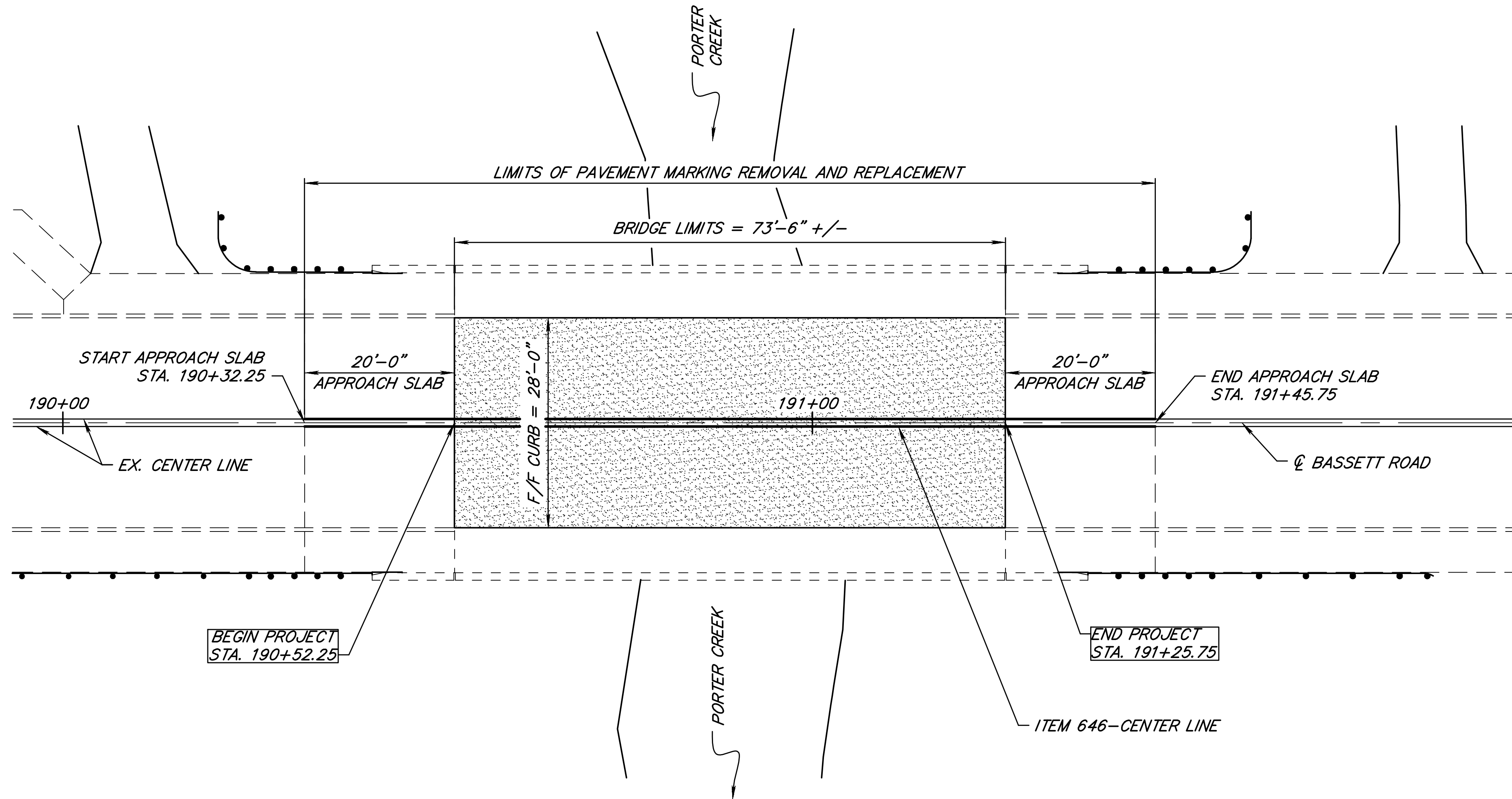


**DRAWING NAME:** Roadway Template v1.dwt  
**PLOT DATE:** 13 February 2007 01:46:24pm

[illegible]



DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



### GENERAL PLAN

#### ESTIMATED QUANTITIES:

**ITEM 512—TREATING CONCRETE BRIDGE DECKS WITH GRAVITY—FED RESIN, AS PER PLAN**  
BRIDGE LIMITS = 73'-6" +/-; F/F CURB WIDTH = 28'-0"  
= 73.5 FT X 28.0 FT  
= 2058 SQ FT / (9 SQ FT / SQ YD)  
= 228.7 SQ YD

**USE 230 SQ YD**

**ITEM 646—CENTER LINE**  
BRIDGE LIMITS = 73'-6" +/-; APPROACH SLAB = 20'-0"  
= 73.5 FT + 20.0 FT + 20.0 FT  
= 113.5 FT / (5280 FT / MILE)  
= 0.022 MILE

**USE 0.03 MILE**

#### NOTES:

- ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
- DESIGN DESIGNATION**  
CURRENT ADT = 7400  
TRUCKS = 4%  
LEGAL SPEED = 35 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = MINOR ARTERIAL

AREA TO BE TREATED WITH GRAVITY—FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.

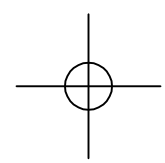
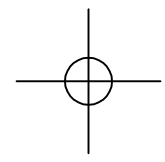
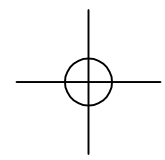
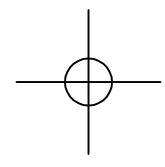
DESIGN AGENCY  
CUYAHOGA COUNTY  
DEPARTMENT OF PUBLIC WORKS

DESIGNED	DRAWN	REVIEWED	DATE
JLG	JLG	BGF	11/08/12
CHECKED	REVISION	STRUCTURE FILE No.	
DMM		1832778	11/08/12

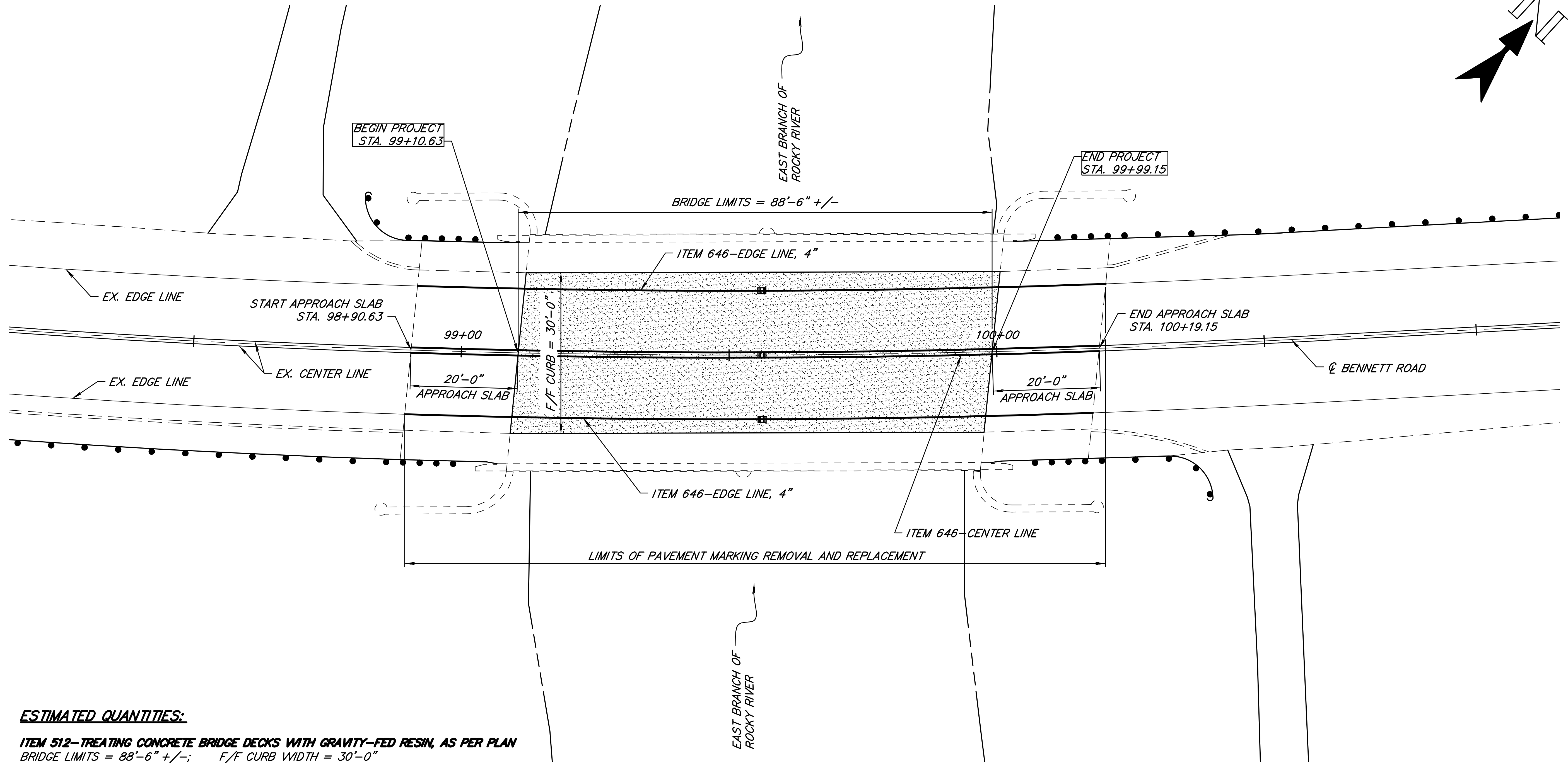
GENERAL PLAN  
BRIDGE 03.57  
OVER PORTER CREEK

BASSETT ROAD  
C.R. 118

7  
13



DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



#### ESTIMATED QUANTITIES:

**ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN**  
BRIDGE LIMITS = 88'-6" +/-; F/F CURB WIDTH = 30'-0"  
= 88.5 FT X 30.0 FT  
= 2655 SQ FT/(9 SQ FT/SQ YD)  
= 295 SQ YD

**USE 300 SQ YD**

**ITEM 646-CENTER LINE**  
BRIDGE LIMITS = 88'-6" +/-; APPROACH SLAB = 20'-0"  
= 88.5 FT + 20.0 FT + 20.0 FT  
= 128.5 FT/(5280 FT/MILE)  
= 0.024 MILE

**USE 0.03 MILE**

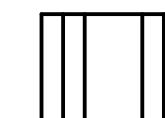
**ITEM 646-EDGE LINE, 4"**  
BRIDGE LIMITS = 88'-6" +/-; APPROACH SLAB = 20'-0"  
= 88.5 FT + 20.0 FT + 20.0 FT  
= 128.5 FT X (2 SIDES)  
= 257.0 FT/(5280 FT/MILE)  
= 0.049 MILE

**USE 0.05 MILE**

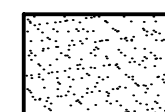
#### GENERAL PLAN

#### NOTES:

- ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
- DESIGN DESIGNATION**  
CURRENT ADT = 9400  
TRUCKS = 2%  
LEGAL SPEED = 35 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = MINOR ARTERIAL



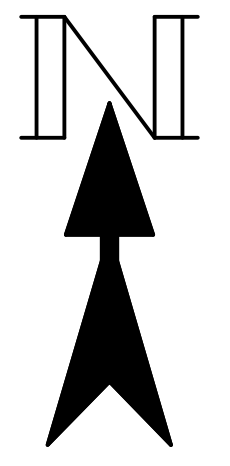
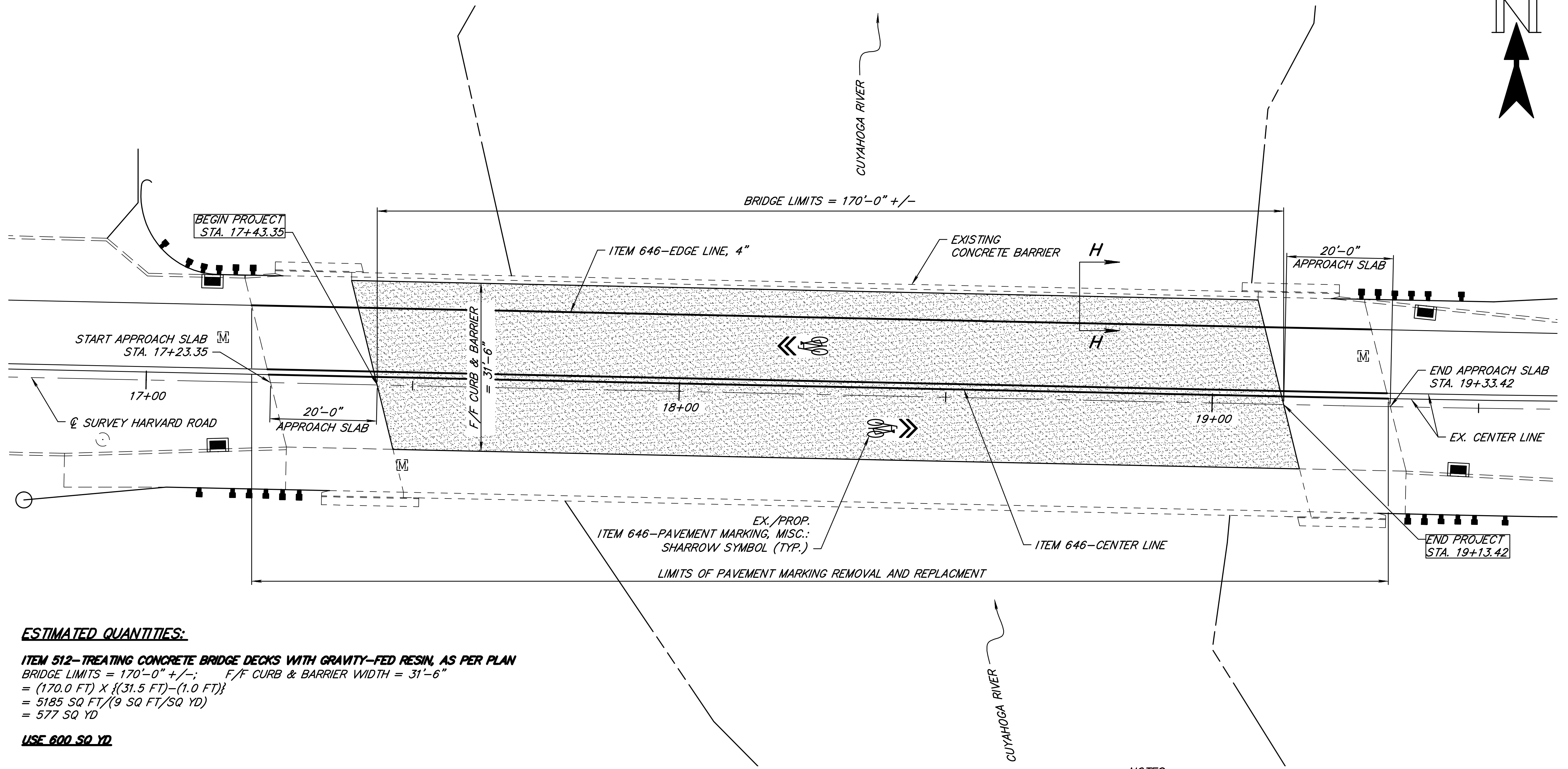
EXISTING RAISED PAVEMENT MARKERS (TO REMAIN),  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.



AREA TO BE TREATED WITH GRAVITY-FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.



DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



**ESTIMATED QUANTITIES:**

**ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN**  
BRIDGE LIMITS = 170'-0" +/-; F/F CURB & BARRIER WIDTH = 31'-6"  
= (170.0 FT) X {(31.5 FT)-(1.0 FT)}  
= 5185 SQ FT/(9 SQ FT/SQ YD)  
= 577 SQ YD

**USE 600 SQ YD**

**ITEM 646-CENTER LINE**  
BRIDGE LIMITS = 170'-0" +/-; APPROACH SLAB = 20'-0"  
= 170.0 FT + 20.0 FT + 20.0 FT  
= 210.0 FT/(5280 FT/MILE)  
= 0.040 MILE

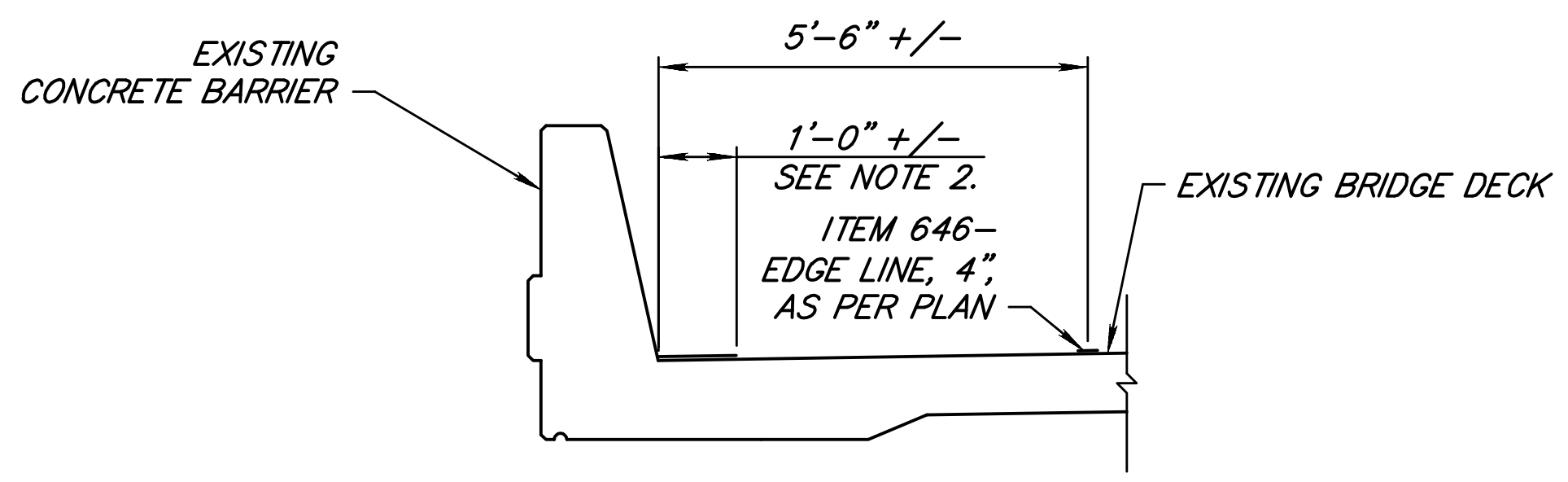
**USE 0.04 MILE**

**ITEM 646-EDGE LINE, 4"**  
BRIDGE LIMITS = 170'-0" +/-; APPROACH SLAB = 20'-0"  
= 170.0 FT + 20.0 FT + 20.0 FT  
= 210.0 FT/(5280 FT/MILE)  
= 0.040 MILE

**USE 0.04 MILE**

**ITEM 646-PAVEMENT MARKING, MISC.: SHARROW SYMBOL**  
SHARROW SYMBOL  
= 2 EACH

**USE 2 EACH**

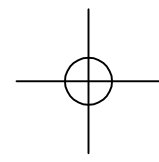
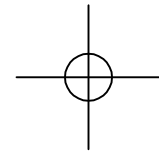
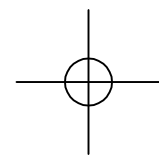
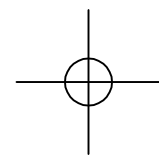


**GENERAL PLAN**

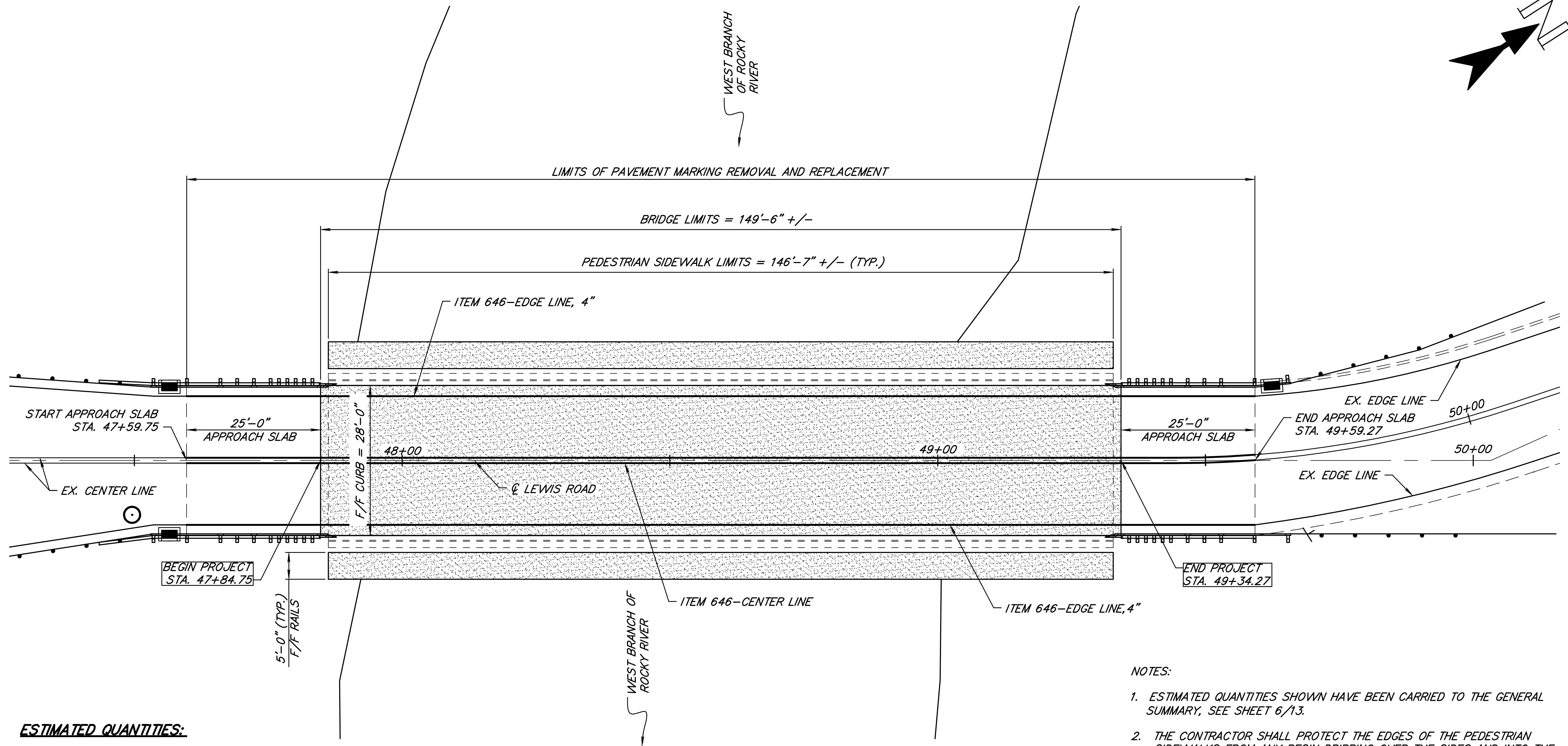
**NOTES:**

1. ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
2. ON THE BRIDGE DECK, THERE EXISTS A 1'-0"± WIDTH OF EPOXY URETHANE SEALER ALONG THE EDGE OF THE CONCRETE BARRIER ON THE NORTH SIDE OF THE BRIDGE. DURING SURFACE PREPARATION, THE CONTRACTOR SHALL MASK THE EXISTING EPOXY-URETHANE SEALER UP TO THE EDGE OF THE EXISTING CONCRETE BARRIER. ALSO, MASK THE CONCRETE BARRIER AT LEAST ONE (1') FOOT UP FROM THE DECK TO PROTECT AGAINST ANY SPLASHING. THE GRAVITY-FED RESIN SHALL NOT BE PLACED ON TOP OF THE SEALER BUT SHALL BE PLACED UP TO THE EDGE OF THE EXISTING EPOXY-URETHANE SEALER.
3. **DESIGN DESIGNATION**  
CURRENT ADT = 2500  
TRUCKS = 6%  
LEGAL SPEED = 25 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = COLLECTOR

AREA TO BE TREATED WITH GRAVITY-FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.



DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



#### ESTIMATED QUANTITIES:

##### ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN

BRIDGE LIMITS = 149'-6" +/-; F/F GUARDRAIL WIDTH = 28'-0"  
PEDESTRIAN BRIDGE LIMITS = 146'-7" +/-; O/O WIDTH = 5'-0"  
= {(149.5 FT) X (28.0 FT)} + {(146.58 FT) X (5.0 FT) X 2 SIDES}  
= (4186 SQ FT + 1466 SQ FT)/(9 SQ FT/SQ YD)  
= 628 SQ YD

**USE 6.35 SQ YD**

##### ITEM 646-CENTER LINE

BRIDGE LIMITS = 149'-6" +/-; APPROACH SLAB = 25'-0"  
= 149.5 FT + 25.0 FT + 25.0 FT  
= 199.5 FT/(5280 FT/MILE)  
0.038 MILE

**USE 0.04 MILE**

##### ITEM 646-EDGE LINE, 4"

BRIDGE LIMITS = 149'-6" +/-; APPROACH SLAB = 25'-0"  
= 149.5 FT + 25.0 FT + 25.0 FT  
= 199.5 FT X (2 SIDES)  
= 399.0 FT/(5280 FT/MILE)  
= 0.076 MILE

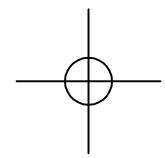
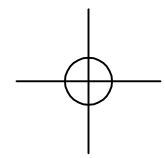
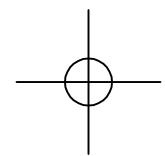
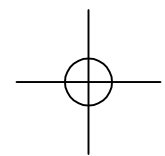
**USE 0.08 MILE**

#### NOTES:

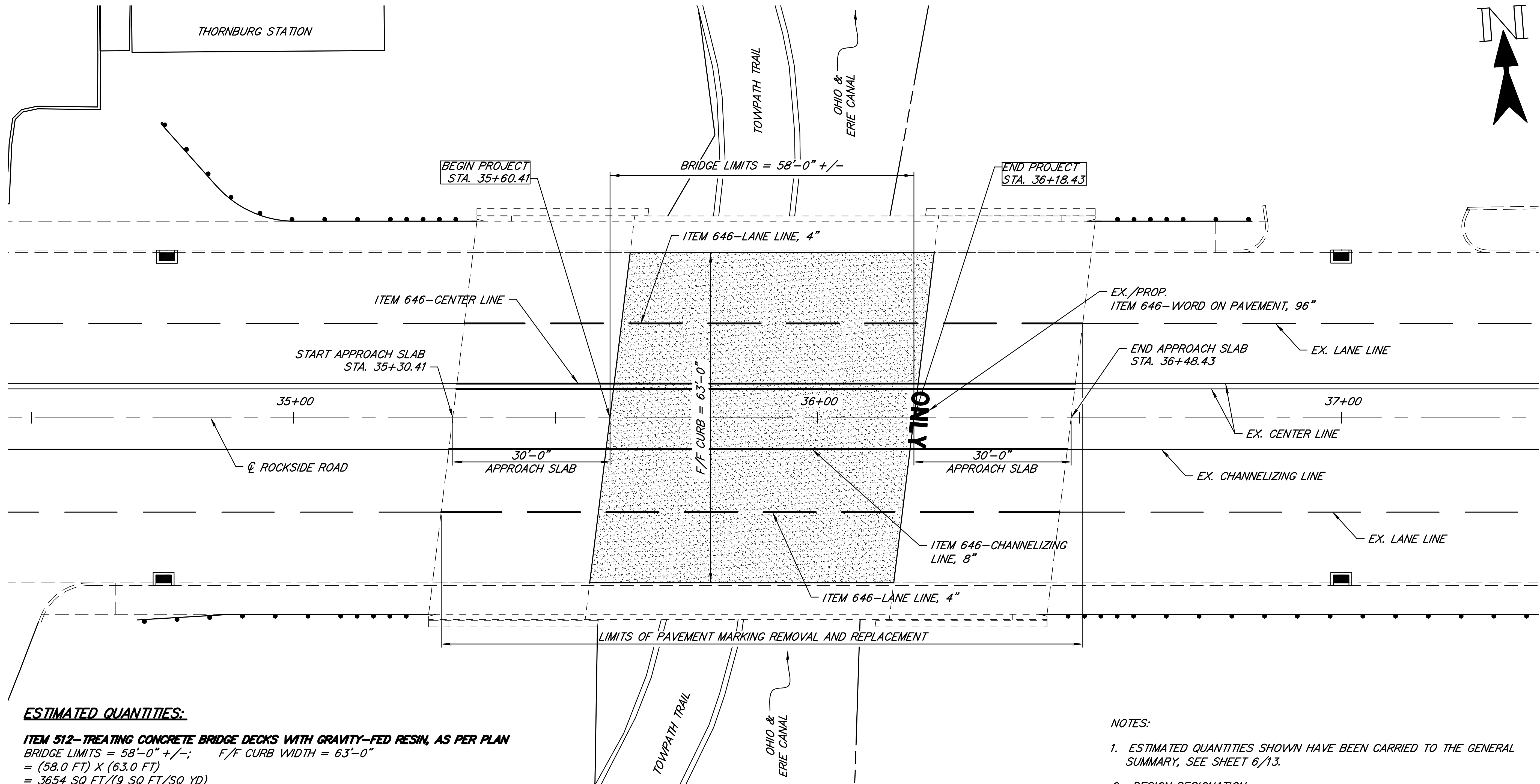
1. ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
2. THE CONTRACTOR SHALL PROTECT THE EDGES OF THE PEDESTRIAN SIDEWALKS FROM ANY RESIN DRIPPING OVER THE SIDES AND INTO THE WEST BRANCH OF THE ROCKY RIVER. BEFORE APPLYING ANY RESIN MATERIAL, THE CONTRACTOR'S METHOD OF PROTECTION SHALL MEET THE ENGINEER'S APPROVAL.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY ACCIDENTAL DISCHARGE OF RESIN FROM ENTERING THE WEST BRANCH OF THE ROCKY RIVER AND TAKE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE. THE CONTRACTOR IS REFERRED TO SECTION 107.19 OF THE CUYAHOGA COUNTY ENGINEER GENERAL PROVISIONS FOR ADDITIONAL REQUIREMENTS. ALL WORK IN THIS REGARD SHALL BE CONSIDERED INCIDENTAL TO ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN.
4. **DESIGN DESIGNATION**  
CURRENT ADT = 2800  
TRUCKS = 2%  
LEGAL SPEED = 25 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = COLLECTOR
5. FOR ADDITIONAL INFORMATION REGARDING MAINTAINING TRAFFIC ON PEDESTRIAN SIDEWALKS, SEE GENERAL NOTE ON SHEETS 3/13 -4/13.

AREA TO BE TREATED WITH GRAVITY-FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.





DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



#### ESTIMATED QUANTITIES:

**ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN**  
BRIDGE LIMITS = 58'-0" +/-; F/F CURB WIDTH = 63'-0"  
= (58.0 FT) X (63.0 FT)  
= 3654 SQ FT/(9 SQ FT/SQ YD)  
= 406 SQ YD

**USE 410 SQ YD**

**ITEM 646-CENTER LINE**  
BRIDGE LIMITS = 58'-0" +/-; APPROACH SLAB = 30'-0"  
= 58.0 FT + 30.0 FT + 30.0 FT  
= 118.0 FT/(5280 FT/MILE)  
= 0.023 MILE

**USE 0.03 MILE**

**ITEM 646-LANE LINE, 4"**  
BRIDGE LIMITS = 58'-0" +/-; APPROACH SLAB = 30'-0"  
= 58.0 FT + 30.0 FT + 30.0 FT  
= 118.0 FT X (2 SIDES)  
= 236.0 FT/(5280 FT/MILE)  
= 0.045 MILE

**USE 0.05 MILE**

**ITEM 646-WORD ON PAVEMENT, 96"**  
WORD = "ONLY"  
= 1 EACH

**USE 1 EACH**

**ITEM 646-CHANNELIZING LINE, 8"**  
BRIDGE LIMITS = 58'-0" +/-; APPROACH SLAB = 30'-0"  
= 58.0 FT + 30.0 FT + 30.0 FT  
= 118.0 FT

**USE 125 FT**

#### NOTES:

- ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
- DESIGN DESIGNATION**  
CURRENT ADT = 20400  
TRUCKS = 5%  
LEGAL SPEED = 35 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = PRINCIPAL ARTERIAL

AREA TO BE TREATED WITH GRAVITY-FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.

DESIGN AGENCY  
CUYAHOGA COUNTY  
DEPARTMENT OF PUBLIC WORKS

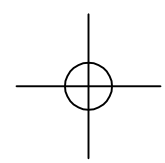
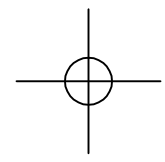
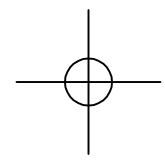
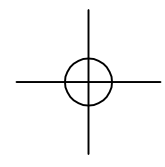
DATE  
11/08/12  
REVIEWED  
BCF  
STRUCTURE FILE No.  
1832476

DRAWN  
JLG  
CHECKED  
DMM  
DESIGNED  
JLG  
REVISION  
11/08/12

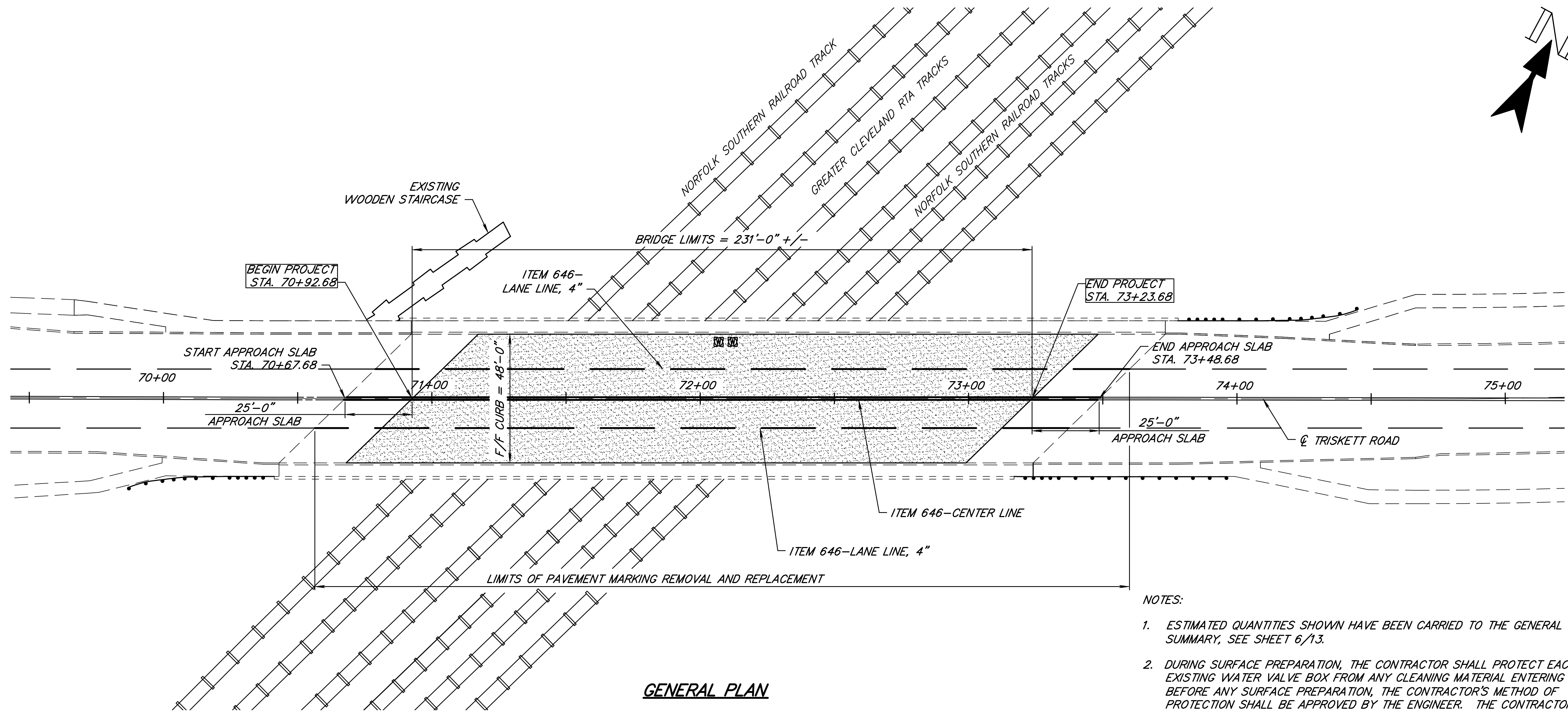
GENERAL PLAN  
BRIDGE 03.41  
OVER THE OHIO AND ERIE CANAL

ROCKSIDE ROAD  
C.R. 53

11  
13



DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



#### ESTIMATED QUANTITIES:

##### ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN

BRIDGE LIMITS = 231'-0" +/-; F/F CURB WIDTH = 48'-0"  
= (231.0 FT) X (48.0 FT)  
= 11088 SQ FT / (9 SQ FT/SQ YD)  
= 1232 SQ YD

##### USE 1240 SQ YD

##### ITEM 646-CENTER LINE

BRIDGE LIMITS = 231'-0" +/-; APPROACH SLAB = 25'-0"  
= 231.0 FT + 25.0 FT + 25.0 FT  
= 281.0 FT / (5280 FT/MILE)  
= 0.054 MILE

##### USE 0.06 MILE

##### ITEM 646-LANE LINE, 4"

BRIDGE LIMITS = 231'-0" +/-; APPROACH SLAB = 25'-0"  
= 231.0 FT + 25.0 FT + 25.0 FT  
= 281.0 FT X (2 SIDES)  
= 562.0 FT / (5280 FT/MILE)  
= 0.107 MILE

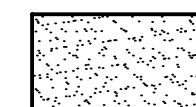
##### USE 0.11 MILE

#### NOTES:

- ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
- DURING SURFACE PREPARATION, THE CONTRACTOR SHALL PROTECT EACH EXISTING WATER VALVE BOX FROM ANY CLEANING MATERIAL ENTERING IT. BEFORE ANY SURFACE PREPARATION, THE CONTRACTOR'S METHOD OF PROTECTION SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL USE CARE WHEN CLEANING AROUND EACH EXISTING WATER VALVE BOX.
- THE CONTRACTOR SHALL PROTECT EACH EXISTING WATER VALVE BOX FROM ANY RESIN ENTERING IT. BEFORE APPLYING ANY RESIN MATERIAL, THE CONTRACTOR'S METHOD OF PROTECTION SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL USE CARE WHEN WORKING WITH THE RESIN AROUND EACH WATER VALVE BOX.
- UPON COMPLETION, THE CONTRACTOR SHALL HAVE A CWD INSPECTOR PRESENT TO VERIFY THAT EACH EXISTING WATER VALVE BOX IS ACCESSIBLE AND HAS NOT BEEN DAMAGED. CALL THE DIVISION OF WATER INSPECTION AT (216) 664-2342 TO ARRANGE FOR AN INSPECTION.
- DESIGN DESIGNATION  
CURRENT ADT = 8900  
TRUCKS = 6%  
LEGAL SPEED = 35 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = MINOR ARTERIAL



EXISTING WATER VALVE BOX (TO BE PROTECTED)  
SEE NOTES 2 THRU 4.



AREA TO BE TREATED WITH GRAVITY-FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.

DESIGN AGENCY  
CUYAHOGA COUNTY  
DEPARTMENT OF PUBLIC WORKS

REVIEWED  
BGF  
DATE  
11/08/12  
STRUCTURE FILE No.  
1830236

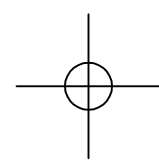
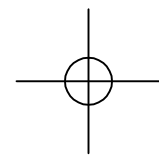
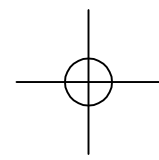
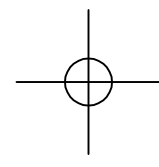
DRAWN  
JLG  
CHECKED  
DMM  
DATE  
11/08/12

GENERAL PLAN  
BRIDGE 01.34  
OVER THE NORFOLK SOUTHERN RAILROAD AND GCRTA

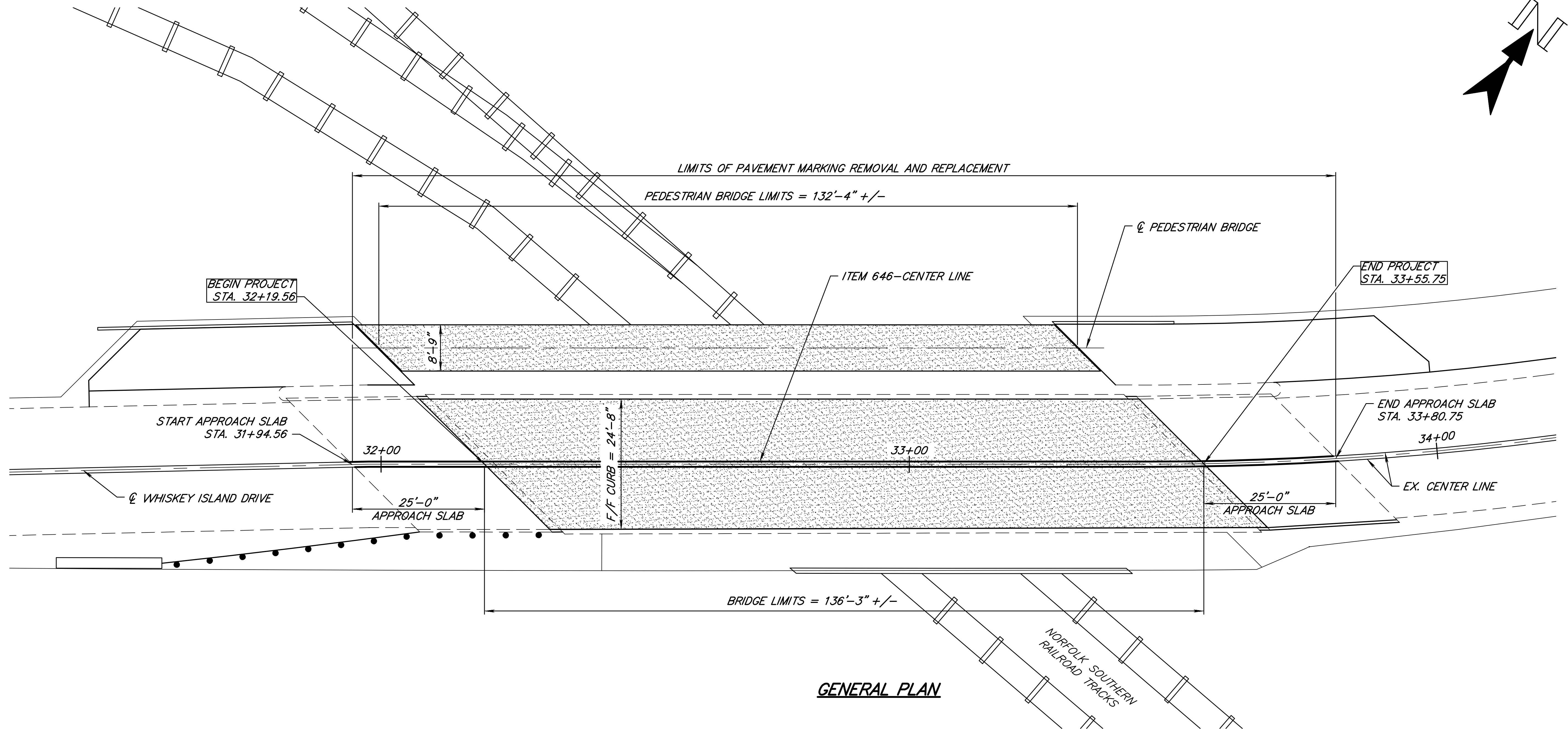
TRISKETT ROAD  
C.R. 228

12  
13





DRAWING NAME: Roadway Template V1.dwg  
PLOT DATE: 13 February 2007 01:46:24pm



#### ESTIMATED QUANTITIES:

##### ITEM 512-TREATING CONCRETE BRIDGE DECKS WITH GRAVITY-FED RESIN, AS PER PLAN

BRIDGE LIMITS = 136'-3" +/-; F/F CURB WIDTH = 24'-8"  
PEDESTRIAN BRIDGE LIMITS = 132'-4" +/-; O/O WIDTH = 8'-9"  
= {(136.25 FT) X (24.67 FT)} + {(132.33 FT) X (8.75 FT)}  
= (3362 SQ FT + 1158 SQ FT)/(9 SQ FT/SQ YD)  
= 503 SQ YD

**USE 510 SQ YD**

##### ITEM 646-CENTER LINE

BRIDGE LIMITS = 136'-3" +/-; APPROACH SLAB = 25'-0"  
= 136.25 FT + 25.0 FT + 25.0 FT  
= 186.25 FT/(5280 FT/MILE)  
= 0.036 MILE

**USE 0.04 MILE**

#### NOTES:

1. ESTIMATED QUANTITIES SHOWN HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SEE SHEET 6/13.
2. THE CONTRACTOR SHALL REMOVE ALL RUST STAINS FROM THE DECKS OF BRIDGE AND PEDESTRIAN BRIDGE PER CMS 512.03F.
3. THE CONTRACTOR SHALL PROTECT THE EDGES OF THE PEDESTRIAN BRIDGE FROM ANY RESIN DRIPPING OVER THE SIDES OF THE DECK AND ONTO THE NORFOLK AND SOUTHERN RAILROAD TRACKS BELOW. BEFORE APPLYING ANY RESIN MATERIAL, THE CONTRACTOR'S METHOD OF PROTECTION SHALL MEET THE ENGINEER'S APPROVAL.
4. **DESIGN DESIGNATION**  
CURRENT ADT = 2000  
TRUCKS = 2%  
LEGAL SPEED = 20 MPH  
DESIGN FUNCTIONAL CLASSIFICATION = COLLECTOR
5. FOR ADDITIONAL INFORMATION REGARDING MAINTAINING TRAFFIC ON PEDESTRIAN BRIDGE, SEE GENERAL NOTE ON SHEETS 3/13 - 4/13.

AREA TO BE TREATED WITH GRAVITY-FED RESIN  
FOR ADDITIONAL INFORMATION, SEE SHEET 5/13.