

394 BLACK 1-47F

DESIGN DESIGNATION

CURRENT YEAR A.D.T. (1995)	139,835
DESIGN YEAR A.D.T. (2015)	164,300
DHV (K=9%) (2015)	14,787
D	57%
T24	5%
TD	2%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
FUNCTIONAL CLASSIFICATION:	URBAN INTERSTATE
DESIGN EXCEPTION:	SHOULDER WIDTH, VERTICAL ALIGNMENT, STOPPING SIGHT DISTANCE, and SUPERELEVATION (APPROVED 8-9-93)

**STATE OF OHIO
DEPARTMENT OF TRANSPORTATION**

OHIO	
HAM-71-2.92	
FHWA REGION 5	1 615
IM-71-1(91); CMG-71-1(91)	
FEDERAL PROJECT	

HAM-71-2.92

**CITY OF CINCINNATI
CITY OF NORWOOD
HAMILTON COUNTY**

**IM-71-1(91); CMG-71-1(91)
LIMITED ACCESS**

The improvement is especially designated for through traffic and has been declared a limited access highway or freeway by action of the director in accordance with provisions of section 5511.02 of the revised code of Ohio.

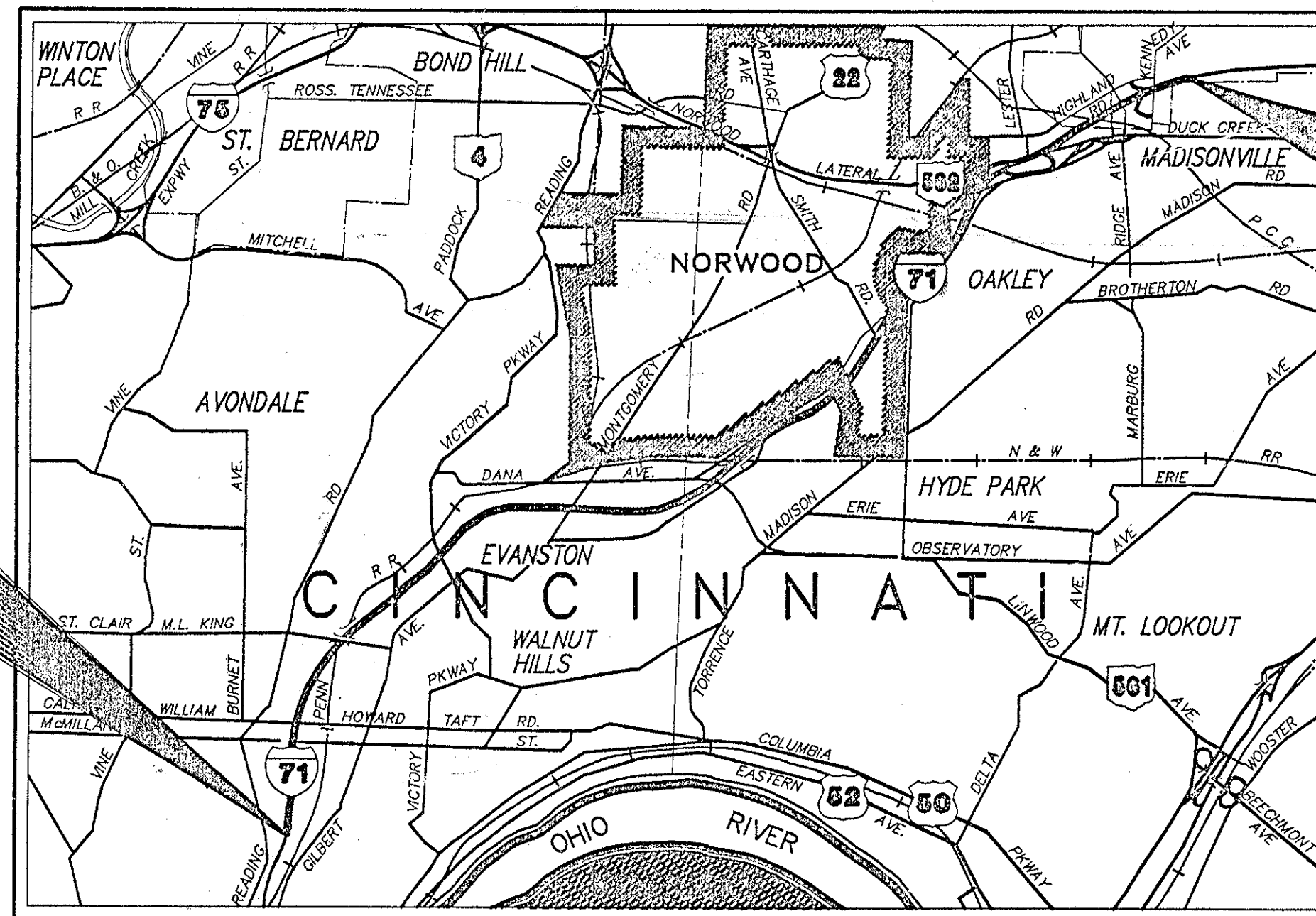
CONVENTIONAL SIGNS

County Line	-----
Township Line	-----
Section Line	-----
Corporation Line	-----
Fence Line (Existing)	-x-x-x-
Center Line	-----
Utility Poles: Telephone	⊕
Power	⊕
Light	⊕
Ex. Limited Access (Only)	LA
Ex. Right of Way (Only)	RW
Ex. Limited Access & Right of Way	LA/RW
Property Line	-----
Railroad	-----
Guardrail (Existing)	o-o-o-o
(Barrier)	o-o-o-o
Pullbox (Existing)	⊠
Catch Basin Adjusted to Grade	⊠
Manhole Adjusted to Grade	⊠

INDEX OF SHEETS

TITLE SHEET	1	PLANS	170-216,
SCHEMATIC PLAN	2-5		216A,217-268
TYPICAL SECTION	6-40	ESTIMATED QUANTITIES	269-285
MISCELLANEOUS DETAILS	41-43	DRAINAGE DETAILS	286-291
	44A,44B	DRAINAGE PROFILES	292-296
GENERAL NOTES	45,46,46A,47	SLIDE AREA RECONSTRUCTION	297-302
	47A-47F	LIGHTING PLANS	303-408
MAINTENANCE OF TRAFFIC	48-50	TRAFFIC CONTROL	409-410,410A,411-444,
	50A,51-53		444A,445-489,489A-B,490-493
CALCULATIONS	154-166	STRUCTURES OVER 20' SPAN	494,494A,495,
GENERAL SUMMARY	167-169		495A-B,496,497,497A,498-615

SHEETS NOT USED: 44, 163, 561, 576-578



**BEGIN PROJECT
STA. 215+12.50**

**END PROJECT
STA. 433+87.50**

1995 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.

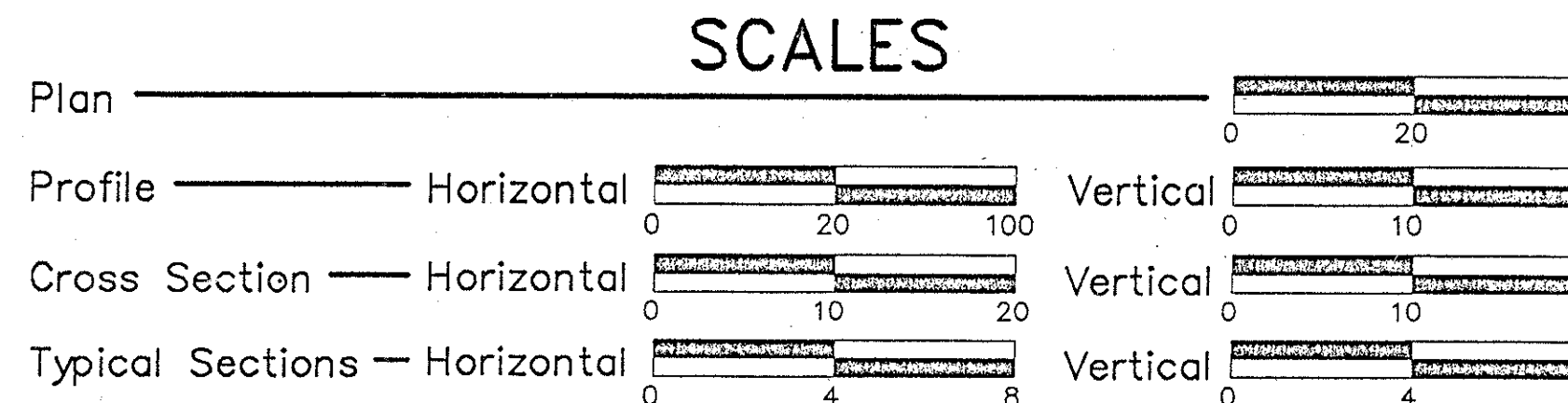
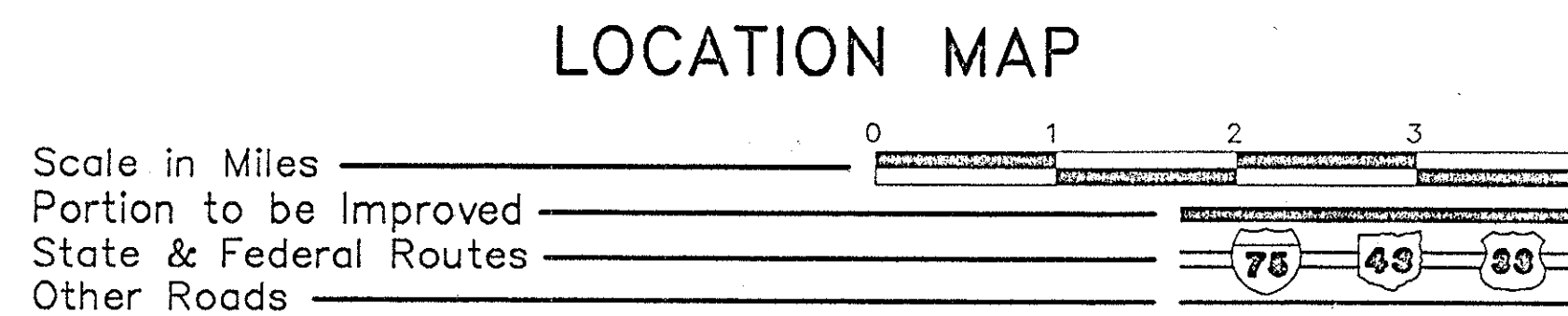
I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of local streets and that detours will be provided as indicated on plans.

Under authority of Section 4511.21, Division (1) of the revised Code of Ohio, the revised PRIMA FACIE speed limits as indicated herein are determined to be reasonable and safe, and are hereby established for the duration of this project. The PRIMA FACIE speed limit or limits hereby established shall become effective when appropriate signs giving notice thereof are erected.

Approved *[Signature]*
Date 2-20-96 District Deputy Director
of Transportation

LINE DATA

BEGIN PROJECT	Sta 215+12.50
STATION EQUATION:	Sta 317+66.66 Back = Sta 318+14.80 Ahead
STATION EQUATION:	Sta 393+69.39 Back = Sta 291+50.00 Ahead
STATION EQUATION:	Sta 338+50.00 Back = Sta 338+46.95 Ahead
STATION EQUATION:	Sta 356+26.39 Back = Sta 356+29.39NB Ahead = Sta 356+29.39SB Ahead
STATION EQUATION:	Sta 404+00.00NB Back
STATION EQUATION:	Sta 404+84.57SB Back = Sta 404+84.57Q Ahead
END PROJECT	Sta 433+87.50
LENGTH OF PROJECT	= 32094.36 ft = 6.079 Mile
BEGIN WORK	Sta 213+00.00
STATION EQUATION:	Sta 434+25.00 Back = Sta 435+07.72 Ahead
END WORK	Sta 436+82.72
LENGTH OF WORK	= 32506.86 ft = 6.157 Mile



UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
Call 1-800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

Approved *[Signature]*
Date 2/19/96 Director, Department of Transportation

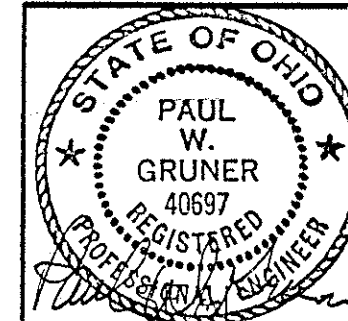
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Plans Prepared By:

WOOLPERT
409 EAST MONUMENT AVENUE
DAYTON, OHIO 45402
(513)-461-5660

WOOLPERT
400 S. FIFTH STREET, SUITE 200
COLUMBUS, OHIO 43215
(614)-469-1311

7162 READING ROAD, SUITE 1100
CINCINNATI, OHIO 45237
(513)-631-8300
151-18007-09



SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-2.1	10-28-94	GR-3B	1-21-85	CB-2-3 & 2-4	5-1-79	HL-30.31	5-1-87	TC-7.65	3-1-79	TC-41.40	6-18-79	MT-95.30	10-10-88
BP-2.2	10-28-94	GR-3.1	5-6-91	CB-5	11-10-83	HL-30.32	5-1-87	TC-12.30	1-20-84	TC-41.41	8-2-79	MT-95.31	10-10-88
BP-2.4	2-21-92	GR-3.2	5-6-91	I-3A & 3B	4-1-80	HL-30.33	5-1-87	TC-15.115	3-1-79	TC-41.50	6-21-94	MT-95.32	8-25-89
BP-2.5	2-21-92	GR-4.2	5-6-91	HL-2Q,22	5-1-87	HL-40.10	5-1-87	TC-16.20	1-20-84	TC-42.10	8-19-77	MT-97.11	10-4-89
BP-3.1	2-21-92	GR-5.3	10-30-92	HL-10.11	5-1-87	HL-50.11	5-1-87	TC-17.10	1-20-84	TC-42.20	3-26-79	MT-98.12	6-24-93
BP-5.1	10-28-94	GR-8.1	1-31-94	HL-10.12	5-1-87	HL-50.21	5-1-87	TC-18.26	5-31-79	TC-51.1	1-20-84	MT-98.13	6-24-93
BP-1I	2-21-92	GR-5I	10-30-92	HL-10.13	5-1-87	HL-60.11	5-1-87	TC-21.10	9-1-92	TC-52.10	4-3-79	MT-98.14	6-24-93
F-1	11-10-83	MC-4	7-26-76	HL-10.31	5-1-87	HL-60.12	5-1-87	TC-21.41	9-1-92	TC-52.20	4-3-79	MT-98.16	6-24-93
F-3	5-1-76	MC-5	6-12-75	HL-20.11	5-1-87	HL-60.21	5-1-87	TC-22.10	9-1-92	TC-61.10	4-5-82	MT-99.10	11-14-86
F-5	5-1-76	MC-2.2	5-6-91	HL-20.13	5-1-87	HL-60.31	5-1-87	TC-31.21	9-1-92	TC-22.20	9-1-92	MT-99.20	4-29-88
F-6	5-1-76	MC-9.3	10-30-92	HL-20.14	5-1-87	HL-20.23	5-1-87	TC-32.10	9-1-92	TC-65.10	2-1-90	MT-101.60	7-1-92
F-4	11-10-83	MC-9.4	10-30-92	HL-20.21	5-1-87	SD-1-69	6-12-69	TC-32.11	9-1-92	TC-65.11	2-1-90	MT-102.20	8-25-89
GR-1.1	5-6-91	MC-10	5-1-76	HL-20.31	5-1-87	AS-1-81	9-15-94	TC-35.10	8-29-84	TC-71.10	9-10-91	MT-105.10	7-1-92
GR-1.2	10-30-92	MC-11	8-1-78	HL-30.11	5-1-87	BR-2-82	11-1-82	TC-41.10	8-29-84	TC-72.20	2-26-82	MT-105.11	7-1-92
GR-1.3	2-21-92			HL-30.21	5-1-87	EKJ-4-87	1-20-94	TC-41.20	6-21-94	MT-99.20	4-29-88		
GR-2.1	5-6-91			HL-30.22	5-1-87	TC-21.40	9-1-92	TC-21.20	9-1-92	MT-95.40	10-1-92	RB-1-55	2-2-59

SUPPLEMENTAL SPECIFICATIONS

802	3-23-95	903	7-17-95
812	6-14-95	933	7-17-95
820	6-14-95		
815	7-17-95		
910	7-17-95		
924	6-14-95		
931	7-17-95		
944	3-23-95		

GENERAL NOTES

LIGHTING

CALC. BY KRB
DATE 10/96
CHKD. BY BAP
DATE 1/8/96

HAM-71-2.92

OHIO
FHWA
REGION 5

303
615

SPECIFICATIONS

THESE NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 713 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION. REFERENCE SHALL BE MADE TO STANDARD CONSTRUCTION DRAWINGS ON THE TITLE SHEET OF THESE PLANS.

625.03 - GENERAL

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS CINCINNATI GAS & ELECTRIC.
THE MAINTAINING AGENCY FOR NEW POWER SERVICE ACCOUNTS ESTABLISHED BY THIS PROJECT IS THE CITY OF CINCINNATI.

UTILITY COMPANIES

C.G. & E. - GAS OPERATIONS
ENGINEERING AND PLANNING
P.O. BOX 960, RM. 460-A
CINCINNATI, OH 45201-0960

CINCINNATI BELL TELEPHONE
1717 DIXIE HIGHWAY, SUITE 800
FT. WRIGHT, KY 41011

C.G. & E. - ELECTRIC OPERATIONS
CUSTOMER ACTIVITIES DEPT./
GOVERNMENTAL SERVICES
P.O. BOX 960, RM. 347-C
CINCINNATI, OHIO 45201-0960

METROPOLITAN SEWER DISTRICT
WASTEWATER ENGINEERING DEPT.
1600 GEST ST.
CINCINNATI, OH 45204

CITY OF CINCINNATI
HIGHWAY ENGINEERING DEPT.
801 PLUM STREET
CINCINNATI, OHIO 45202

U.S. SPRINT COMMUNICATIONS
FIBER OPERATIONS
10265 SPARTAN DR. - UNIT M
CINCINNATI, OH 45215

CITY OF CINCINNATI
TRAFFIC ENGINEERING DEPT.
705 CENTRAL AVE., RM. 200
CINCINNATI, OHIO 45202

WARNER CABLE COMMUNICATIONS
6709 VAN KIRK AVE.
CINCINNATI, OH 45216

CITY OF CINCINNATI
STORM WATER ENGINEERING
705 CENTRAL AVE., RM. 400
CINCINNATI, OHIO 45202

CINCINNATI WATER WORKS
ENGINEERING DIVISIONS
474 SPRING GROVE AVE.
CINCINNATI, OHIO 45232

UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO AND THE CONSULTING ENGINEER MAKE NO GUARANTEES AS TO THEIR ACCURACY OR COMPLETENESS. REFER TO THE RIGHT OF WAY PLANS FOR ALL OTHER UTILITIES IN THE VICINITY OF THIS PROJECT.

ALL UNDERGROUND UTILITIES, WATER, SEWER, TELEPHONE, GAS, TRAFFIC CONTROL, ETC. NEAR PROPOSED LIGHT POLES, PULL BOXES, ETC. SHALL BE STAKED BY THAT UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.

VERIFICATION OF EXISTING CONDITIONS

THE ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL UNDERGROUND LIGHTING AND TRAFFIC CONTROL DEVICES WITH THE CITY OF CINCINNATI DIVISION OF TRAFFIC.

DUE TO DEVIATION FROM AVAILABLE EXISTING DRAWINGS AND THE QUANTITIES OF CONDUCTORS WITHIN EACH PULLBOX, IT WAS IMPOSSIBLE TO DETERMINE THE ACTUAL DISTRIBUTION OF EXISTING LIGHTING AND TRAFFIC CONTROL CIRCUITS WITHOUT TESTING OF THE CIRCUIT CONDUCTORS.

ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE CITY OF CINCINNATI DIVISION OF TRAFFIC AND THE ENGINEER TO DETERMINE WHICH PULL BOXES AND CONDUCTORS SHALL BE MAINTAINED, AND WHICH SHALL BE REMOVED.

QUANTITIES INCLUDED IN THE SUB-SUMMARIES ARE ESTIMATED DUE TO THE LACK OF ACCURATE INFORMATION AVAILABLE.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO THE STANDARD DRAWINGS FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ESTIMATED QUANTITY OF ITEM 603 "4 INCH CONDUIT TYPE "E" IS INCLUDED IN THE LIGHTING GENERAL SUMMARY FOR THIS PURPOSE.

ITEM 713.14 - LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", WESTINGHOUSE "CERAMALUX", SYLVANIA "LUMALUX" OR EQUAL APPROVED BY THE ENGINEER.

ITEM 625 - 713.11 LUMINARIES

STYLE B LUMINARIES SHALL HAVE SINGLE RATED INTEGRAL BALLASTS THE VOLTAGE SPECIFIED FOR USE WITH HIGH PRESSURE SODIUM LAMPS AND SHALL BE GENERAL ELECTRIC M-400, CROUSE-HINDS OVM, AMERICAN 25/26 OR EQUAL APPROVED BY THE ENGINEER. STYLE B LUMINARIES SHALL BE RATED UP TO 37,000 LUMENS.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

ITEM 202 - PULL BOX REMOVED

THIS ITEM SHALL INCLUDE REMOVING THE PULL BOX TO ONE FOOT (1') BELOW THE GROUND LEVEL THREE FEET (3') BELOW THE GROUND LEVEL WHERE PULL BOX IS TO BE REPLACED WITH A NEW CONCRETE PULL BOX AND RESTORING THE DISTURBED AREA. WHERE A PULLBOX IS TO BE REPLACED WITH A NEW CONCRETE PULL BOX, IT IS THE INTENT OF THIS NOTE TO CUT ALL CONDUITS IN A NEAT FASHION IN ORDER TO REUSE THE EXISTING CONDUITS IN PLACE. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CIRCUIT CONDUCTORS IF THEY ARE TO BE REUSED. PAYMENT SHALL BE PER EACH ITEM 202 - "PULL BOX REMOVED".

ITEM 202 - LIGHT POLE REMOVED

THIS ITEM SHALL INCLUDE REMOVING AND DISPOSING OF THE POLE, BRACKET ARM, BASE AND POLE AND BRACKET WIRING. PAYMENT SHALL BE PER EACH ITEM 202 - REMOVAL OF EXISTING LIGHT POLE.

ITEM SPECIAL - REMOVE BRACKET ARM

THIS ITEM SHALL INCLUDE REMOVING AND DISPOSING OF THE BRACKET ARM FROM THE LOCATION SHOWN ON THE PLANS. PAYMENT SHALL BE PER EACH ITEM - SPECIAL "REMOVAL BRACKET ARM", AS PER PLAN.

ITEM SPECIAL - DISCONNECT EXISTING CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF THE DISCONNECTION OF AN EXISTING LIGHT CIRCUIT AT A PULL BOX OR JUNCTION BOX.

DISCONNECTION AT A PULL BOX OR POLE BASE SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL CONNECTOR KITS. ANY CABLE THAT IS TO BE ABANDONED SHALL BE TERMINATED IN A MANNER SUCH THAT NO CABLE IS LEFT REMAINING IN THE PULL BOX OR POLE BASE. ANY CABLE THAT IS TO BE REUSED SHALL BE CUT IN A MANNER SO THAT THERE IS SUFFICIENT LENGTH OF CABLE LEFT FOR RECONNECTION.

CONNECTOR KITS SHALL BE PAID FOR SEPARATELY UNDER EACH ITEM 625 "CABLE SPLICE KIT".

PAYMENT WILL BE MADE AT THE UNIT BID PROVIDED FOR EACH ITEM SPECIAL "DISCONNECT EXISTING CIRCUIT" AND SHALL BE FULL COMPENSATION INCLUDING ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN A SATISFACTORY WORKMANLIKE MANNER.

ITEM 625 - CONDUIT CLEANED AND CABLES REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF LOCATING AND CLEANING AN EXISTING CONDUIT OF ALL EXISTING CABLES, MUD AND DEBRIS TO THE SATISFACTION OF THE ENGINEER BEFORE NEW DUCT CABLE OR DISTRIBUTION CABLE IS PULLED THROUGH THE CONDUIT. DRAIN OUTLETS SHALL BE FREE OF ALL OBSTRUCTIONS.

THIS ITEM SHALL INCLUDE CUTTING AND REAMING ANY BURRS AND INSTALLING BUSHINGS OR COUPLINGS TO PROVIDE A FREE RACEWAY FOR PULLING DUCT CABLE OR DISTRIBUTION CABLE THROUGH THE CONDUIT.

AT LOCATIONS WHERE LIGHT POLE FOUNDATIONS ARE TO BE REMOVED, CONDUIT SHOULD BE CUT PRIOR TO FOUNDATION REMOVAL TO PREVENT DAMAGE TO THE CONDUIT.

MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF OF THE PROJECT SITE. DISTURBED AREAS SHALL BE PROPERLY RESTORED.

PAYMENT WILL BE MADE FOR EACH LINEAR FOOT OF ITEM 625 - "CONDUIT CLEANED AND CABLES REMOVED, AS PER PLAN," AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN A SATISFACTORY MANNER.

ITEM 625 - JUNCTION BOX EXTENSION, AS PER PLAN (RAIL RETROFIT)

THIS ITEM SHALL INCLUDE INSTALLING AN EXTENSION AT EXISTING JUNCTION BOX WHERE BRIDGE SIDE RAIL IS BEING MODIFIED.

THE UNIT PRICE BID FOR EACH ITEM 625 "JUNCTION BOX EXTENSION, AS PER PLAN (RAIL RETROFIT)" SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED, BUT REQUIRED FOR SATISFACTORY INSTALLATION OF THIS ITEM, SHALL BE PROVIDED AND CONSIDERED PAID FOR AS PART OF THIS ITEM. AN ESTIMATED QUANTITY OF 15 JUNCTION BOX EXTENSIONS HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR COMPLETION OF THIS WORK.

RETAINING WALL POLE MODIFICATIONS, AS PER PLAN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATIONS OF EXISTING POLE MOUNTING BASES, BOLT SIZES, BOLT CIRCLE DIAMETERS AND ALL MOUNTING CONDITIONS PRIOR TO INSTALLATION OF NEW LIGHT POLES ON EXISTING RETAINING WALLS. REFER TO TABLE ON SHEET 406.

GENERAL NOTES

LIGHTING

CALC. BY: KRB
DATE: 6/27/95
CHKD. BY: BBP
DATE: 7/15/95

HAM-71-2.92

OHIO
FHWA
REGION 5

304
615

ELECTRIC SERVICE

ELECTRIC SERVICE SHALL BE INSTALLED AS DESCRIBED BELOW. AN ESTIMATED QUANTITY OF THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE GENERAL SUMMARY FOR COMPLETION OF THIS WORK;

TRENCH	50	LINEAR FEET
NO. 4 AWG, 5000 VOLT DISTRIBUTION CABLE	1000	LINEAR FEET
CONDUIT, 3" 713.04	50	LINEAR FEET
NO. 2 AWG, 5000 VOLT DISTRIBUTION CABLE	300	LINEAR FEET
EXISTING CONDUIT CLEANED	100	LINEAR FEET

THE ELECTRICAL CONTRACTOR SHALL EXTEND TRENCHING AND DISTRIBUTION CABLE IN EXISTING 3" CONDUIT, PROPOSED 3" CONDUIT OR IN 3" CONDUIT JACKED OR DRILLED UNDER PAVEMENT TO A UTILITY POLE COORDINATED WITH THE UTILITY TO PROVIDE A 240 OR 480 VOLT ELECTRICAL SERVICE. A 35 FOOT COIL SHALL BE PROVIDED AT THE BASE OF POLE FOR FINAL CONNECTION BY THE UTILITY COMPANY. PAYMENT MADE FOR THE ABOVE ITEMS SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

CONDUIT ON STRUCTURES

EXPANSION FITTINGS FOR CONDUIT ON STRUCTURES SHALL BE OZ AX-4, CROUSE-HINDS TYPE XJ-4, APPLETON TYPE XJ-4, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL HAVE A COPPER BONDING JUMPER.

SERVICE TO UNDERPASS LIGHTING REFURBISHED, AS PER PLAN

THIS ITEM SHALL CONSIST OF REFURBISHING THE EXISTING SERVICE TO THE UNDERPASS LIGHTING. WORK SHALL INCLUDE REMOVAL OF ALL EXISTING CONDUCTORS FEEDING THE UNDERPASS LIGHTING SYSTEM, PROVIDING NEW NO. 10 AWG POLE AND BRACKET CABLE BETWEEN ALL UNDERPASS LUMINAIRES AND PROVIDING NEW NO. 4 AWG DISTRIBUTION CABLE FROM THE PULL BOX, JUNCTION BOX OR BARRIER JUNCTION BOX TO THE FIRST JUNCTION BOX OR UNDERPASS LUMINAIRE.

THE UNIT PRICE BID FOR EACH ITEM 625 - "SERVICE TO UNDERPASS LIGHTING REFURBISHED, AS PER PLAN" SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE PROVIDED AND CONSIDERED PAID FOR AS PART OF THIS ITEM.

ITEM SPECIAL - CONNECTION TO EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF LOCATING AN EXISTING CONDUIT AND EXTENDING THE PROPOSED CONDUIT AS SHOWN ON THESE PLANS FROM THE MEDIAN PULL BOX TO THE EXISTING CONDUIT LOCATION. MAKE CONNECTIONS TO PROVIDE A CONTINUOUS RACEWAY. THE UNIT PRICE BID FOR EACH ITEM SPECIAL - "CONNECTION TO EXISTING CONDUIT" SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE PROVIDED AND CONSIDERED PAID FOR AS PART OF THIS ITEM.

A QUANTITY OF 20 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 625 - LIGHT TOWER MAINTENANCE PLATFORM, MISC.: BY TYPE, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING THE TOWER MAINTENANCE PLATFORMS, BY TYPE, AS PER STANDARD DRAWING HL-20.22 AND HL - 20.23, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THIS ITEM SHALL BE PER EACH "ITEM 625 - LIGHT TOWER MAINTENANCE PLATFORM, MISC.: BY, TYPE, AS PER PLAN" AND SHALL INCLUDE ALL EQUIPMENT, LABOR, FORMING, CLASS C CONCRETE, RE-STEEL, AND OTHER MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK TO THE SATISFACTION OF THE ENGINEER. A QUANTITY OF 27 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM SPECIAL - MAINTAIN EXISTING LIGHTING

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF ANY EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF THE EXISTING LIGHTING SHALL BE MADE BY THE STATE'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWN UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENTS.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES OR SHOULD THE CONTRACTOR DESIRE THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR ADEQUATE TEMPORARY LIGHTING OF THAT PORTION OF THE EXISTING ROADWAY AFFECTED BY THE REMOVAL OF THE EXISTING LIGHTING.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR (4) SETS OF THE TEMPORARY LIGHTING PLAN TO THE DIRECTOR FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATION OF POLES, LENGTH OF BRACKET ARMS, STYLE OF LUMINAIRES, MOUNTING HEIGHT, WIRING METHODS, AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 4:1. MOUNTING HEIGHT FOR TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 27 FEET AND MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "A" FOR STRENGTH REQUIREMENT AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING.

ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL, AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS, AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFOREMENTIONED INSPECTION AND SHALL INCLUDE HAS BEEN KNOCKED DOWN AFTER THE AFOREMENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT. AN ESTIMATED QUANTITY OF ONE IS INCLUDED IN THE LIGHTING GENERAL SUMMARY FOR THIS PURPOSE.

GENERAL NOTES

LIGHTING

CALC. BY: KRB
DATE: 6/15/85
CHKD. BY: BAP
DATE: 9/15/85

HAM-71-2.92

OHIO
FHWA
REGION 5

305
615

LIGHT TOWER LUMINAIRE MOUNTING ARRANGEMENT

UNLESS OTHERWISE SPECIFIED IN THE PLANS, ALL LUMINAIRES WITH ASYMMETRIC DISTRIBUTION SHALL BE INSTALLED SO THE "ARROW" OR "STREET SIDE" DESIGNATION ON THE OPTICAL ASSEMBLY IS POSITIONED PERPENDICULAR TO THE CENTERLINE OR BASELINE OF THE PAVEMENT FROM WHICH THE TOWER IS STATIONED. ANY OPTICAL ROTATION CALLED FOR WILL BE EXPRESSED AS A CLOCKWISE (CW) OR COUNTERCLOCKWISE (CCW) ANGULAR MEASUREMENT FROM THE NORMAL "ARROW" ORIENTATION.

HIGH MAST LIGHT TOWERS

THE MANUFACTURER SHALL SUBMIT A REPORT FROM AN INDEPENDENT TESTING LABORATORY TO SHOW THAT THE LUMINAIRES DO NOT RECEIVE MORE THAN THE SPECIFIED ACCELERATION LOAD. THE TESTING LABORATORY'S REPORT SHALL SPECIFY IN DETAIL THE MOUNTING LOCATIONS OF THE ACCELEROMETERS AND THE TEST PROCEDURES USED. IN ADDITION TO THIS REPORT, OHIO DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO CONDUCT FIELD MEASUREMENTS OF THOSE ACCELERATION LOADS AND TO ACCEPT ONLY THOSE DESIGNS IN WHICH THE TESTED INSTALLATIONS MEET SPECIFICATIONS.

THE TERMINAL BLOCK SHOWN ON STANDARD CONSTRUCTION DRAWINGS SHALL BE INCLUDED IN THE PRICE OF THE TOWER.

LIGHT TOWER DETAILS

STANDARD DRAWING HL-10.31 (DATED 5-1-87) HAS BEEN REVISED AS FOLLOWS: THE TWO DIMENSIONS SHOWN AS 4 3/4 INCHES BETWEEN THE CENTER LINES OF THE DRIVE SUPPORT TUBE AND THE WINCH INPUT SHAFT SHOULD READ 3 3/4 INCHES.

ITEM 625 - LIGHT TOWER FOUNDATION "A", 36" x 25' DEEP, AS PER PLAN

THIS ITEM SHALL CONSIST OF PROVIDING A LIGHT TOWER FOUNDATION AS PER STANDARD DRAWING HL-20.21 EXCEPT THAT THE TOP OF THE FOUNDATION SHALL BE AS DETAILED ON SHEET 106.

PAYMENT FOR THIS ITEM SHALL BE PER EACH "ITEM 625 - LIGHT TOWER FOUNDATION "A" 36" x 25' DEEP, AS PER PLAN" AND SHALL INCLUDE ALL EQUIPMENT, LABOR, FORMING, CLASS C CONCRETE AND OTHER MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ITEM 625 - LIGHT POLE FOUNDATION "A", 24" x 10' DEEP, AS PER PLAN

THIS ITEM SHALL CONSIST OF PROVIDING A LIGHT POLE FOUNDATION AS PER STANDARD DRAWING HL-20.11 EXCEPT THAT THE TOP OF THE FOUNDATION SHALL BE AS DETAILED AND DIMENSIONED ON SHEET 106.

PAYMENT FOR THIS ITEM SHALL BE PER EACH "ITEM 625 - LIGHT POLE FOUNDATION "A" 24" x 10' DEEP, AS PER PLAN" AND SHALL INCLUDE ALL EQUIPMENT, LABOR, FORMING, CLASS C CONCRETE AND OTHER MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ITEM 625 - PULL BOX, CONCRETE, 18", AS PER PLAN

THIS ITEM SHALL CONSIST OF PROVIDING A PULL BOX AS PER STANDARD DRAWING HL-30.11 EXCEPT THAT THE PULL BOX SHALL BE LOCATED AS DETAILED ON SHEET 106.

PAYMENT FOR THIS ITEM SHALL BE PER EACH "ITEM 625 - PULL BOX, CONCRETE, 18", AS PER PLAN" AND SHALL INCLUDE ALL EQUIPMENT, LABOR, FORMING, CLASS C CONCRETE AND OTHER MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

ITEM 625 - 713.13 UNDERPASS LUMINAIRES

UNDERPASS LUMINAIRES SHALL BE HOLOPHANE "UNDERPASS WALLPACK", CROUSE-HINDS "WA" OR GENERAL ELECTRIC "W40L" UNDERPASS UNIT OR EQUAL APPROVED BY THE ENGINEER.

ALL UNDERPASS LUMINAIRES SHALL BE FURNISHED WITH AN INTEGRAL FUSE HOLDER AND 10 AMPERE FUSE. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR THE VOLTAGE SPECIFIED, 100 WATTS.

HIGH MAST LUMINAIRES

THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN SECTION 713.21 OF THE CONSTRUCTION AND MATERIAL SPECIFICATION ARE HEREBY WAIVED FOR THIS PROJECT. INSTEAD, THE LUMINAIRES FOR TOWER LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS.

ASYMMETRIC, TYPE I, LUMINAIRES FOR TOWER LIGHTING MAY BE HOLOPHANE "HMST" TEST #36801 OR #36802, OR GENERAL ELECTRIC "HM" TEST #7349, OR COOPER "HMC" TEST #764130.

ASYMMETRIC, TYPE II OR TYPE III, LUMINAIRES FOR TOWER LIGHTING MAY BE HOLOPHANE "HMST" TEST #36648, OR GENERAL ELECTRIC "HM" TEST #7349, OR COOPER "HMC" TEST #764130.

ASYMMETRIC, TYPE V, LUMINAIRES FOR TOWER LIGHTING MAY BE HOLOPHANE "HMST" TEST #36383, OR GENERAL ELECTRIC "HM" TEST #6312, OR COOPER "HAL" TEST #48381.

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE DESIGNED NUMBER AND TYPE OF FIXTURES PER POLE.

LOW MAST LUMINAIRES

THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN SECTION 713.21 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS ARE HEREBY WAIVED FOR THIS PROJECT. INSTEAD, THE LUMINAIRES FOR LOW MAST LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS.

ASYMMETRIC, TYPE II OR III, LUMINAIRES FOR LOW MAST LIGHTING MAY BE HOLOPHANE "HMST" TEST #36648, OR GENERAL ELECTRIC "HM" TEST #7349, OR COOPER "HMC" TEST #764130.

ASYMMETRIC, TYPE V, LUMINAIRES FOR LOW MAST LIGHTING MAY BE HOLOPHANE "HMST" TEST #36383, OR GENERAL ELECTRIC "HM" TEST #6312, OR COOPER "HAL" TEST #48381.

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE TYPE OF FIXTURE PER POLE.

HIGH VOLTAGE TEST

A LUMP SUM FOR PERFORMING THE HIGH VOLTAGE TEST REQUIRED BY THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATION HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

PORTABLE POWER UNIT

THE CONTRACTOR SHALL SUPPLY A PORTABLE POWER UNIT AS SPECIFIED IN THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. A QUANTITY OF "1 EACH" OF ITEM 625, "PORTABLE POWER UNIT" IS INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE.

RECONNECTION OF OVERHEAD SIGNS TO NEW LIGHTING CIRCUITS

THE EXISTING LIGHTED SIGNS SHALL BE RECONNECTED TO THE NEW LIGHTING CIRCUITS. PAYMENT FOR THIS WORK WILL BE UNDER THE THE FOLLOWING ITEMS:

DISCONNECTION OF THE SIGN FROM THE EXISTING CIRCUIT SHALL BE PAID BY ITEM 625 SPECIAL - "DISCONNECT EXISTING CIRCUIT".

REMOVAL OF THE EXISTING PULL BOX SHALL BE PAID BY ITEM 202 - "PULL BOX REMOVED".

REPLACEMENT OF A NEW PULL BOX AT THE SAME LOCATION SHALL BE PAID UNDER ITEM 625 - "PULL BOX, 18", 713.08".

RECONNECTION OF THE SIGNS TO THE NEW LIGHTING CIRCUIT SHALL BE PROVIDED BY ITEM 625 - "CABLE SPLICE KITS" (3 IN A 3-WIRE CIRCUIT PER PULL BOX).

CONDUIT IN STRUCTURES

PRIOR TO STARTING WORK ON PARAPET RETROFIT, CONTRACTOR IS TO ESTABLISH LOCATION OF EXISTING CONDUIT, SO AS NOT TO DAMAGE SAME DURING HIS OPERATIONS. IF ANY DAMAGE OCCURS, CONTRACTOR MUST REPAIR, SATISFACTORY TO THE ENGINEER, AT CONTRACTORS EXPENSE.

AN ESTIMATED QUANTITY OF 500 L.F., 2: RIGID CONDUIT 713.04 IN STRUCTURE IS CARRIED TO GENERAL SUMMARY TO BE USED, AS DIRECTED BY ENGINEER, WHERE CONDUIT INTERFERES WITH PROPOSED CONSTRUCTION.

AN ESTIMATED QUANTITY OF 25 EACH, 2" RIGID CONDUIT EXPANSION FITTINGS HAS BEEN CARRIED TO GENERAL SUMMARY TO BE USED, AS DIRECTED, WHERE THE ENGINEER FEELS THE EXISTING EXPANSION FITTING NEEDS REPLACING.

ITEM SPECIAL - ELECTRIC SERVICE

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CINCINNATI GAS & ELECTRIC
ELECTRIC OPERATIONS
CUSTOMER ACTIVITIES DEPT./GOVERNMENT SERVICES
P.O. BOX 960 RM. 347-C
CINCINNATI, OHIO 45201-0960

SERVICES SHALL BE 480 VOLTS, SINGLE PHASE, 3-WIRE, GROUNDED NEUTRAL; AND 120/240 VOLTS, SINGLE PHASE, 3-WIRE, GROUNDED NEUTRAL.

ELECTRICAL ENERGY FROM EXISTING POWER SERVICES SHALL CONTINUE TO BE CHARGED TO THE MAINTAINING AGENCY. THE CONTRACTOR SHALL PAY ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. AFTER ACCEPTANCE OF THE LIGHTING, POWER SERVICE ELECTRICAL ENERGY ACCOUNTS SHALL BE TRANSFERRED TO THE MAINTAINING AGENCIES NOTED IN THE PLANS.

THIS SHALL INCLUDE NEW POWER SERVICE ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DUE TO WORK PERFORMED BY THIS PROJECT.

LIGHT TOWER FOUNDATIONS

IN LIEU OF THE TOP OF FOUNDATION RELATIONSHIP SHOWN IN STANDARD DRAWINGS, LIGHT TOWER FOUNDATIONS SHALL EXTEND SIX TO TWELVE INCHES ABOVE GRADE, OR PLATFORM, ON THE HIGHER ELEVATION SIDE OF THE FOUNDATION. THE SIX TO TWELVE INCH EXTENSION IS INCLUDED IN THE FOUNDATION DEPTH.

ITEM SPECIAL - UNDERGROUND UTILITIES, ODOT/GOVERNMENT OWNED AND MAINTAINED

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY EXTENSIVE FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO, SPECIFICALLY THE OHIO DEPARTMENT OF TRANSPORTATION, DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. EXTREME CAUTION SHALL BE EXERCISED IN AREAS WITH UNDERGROUND ELECTRICAL CONDUIT OR CABLE, SEWERS, WATER LINES, OR ANY OTHER UNDERGROUND UTILITY.

THE CONTRACTOR, ACTING AS AN AGENT FOR ODOT AND COMPLYING WITH H.B.538, SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL ODOT OWNED UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRICAL CONDUIT, DUCT AND/OR CABLE, SEWERS, AND DRAINS TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE UTILITIES, OTHER THAN ODOT, BY O.U.P.S. OR DIRECTLY BY TELEPHONE, FORTY-EIGHT (48) HOURS IN ADVANCE OF WORK. UTILITIES OWNED AND MAINTAINED BY ODOT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO ANY AND ALL UNDERGROUND UTILITY BY THE EXCAVATION OR PLACEMENT OF SIGN SUPPORTS, LIGHT FOUNDATIONS, DRAINAGE, PROTECTIVE GUARDRAIL, DELINEATION, INCLUDING ANY AND ALL ROADWAY EXCAVATION ETC., AND WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE TO REPAIR THE DAMAGE TO AN "AS WAS" CONDITION AND BE IN COMPLIANCE AND IN ACCORDANCE WITH ALL SPECIFICATIONS INCLUDING 107.17, 625, 631', AND 632 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

PAYMENT FOR THE ABOVE, INCLUDING LOCATING AND MARKING OF ODOT UNDERGROUND UTILITIES, SHALL BE MADE IN THE LUMP SUM BID "ITEM SPECIAL - UNDERGROUND UTILITIES, ODOT/GOVERNMENT OWNED AND MAINTAINED". THE LUMP SUM QUANTITY HAS BEEN CARRIED TO THE LIGHTING GENERAL SUMMARY PAGE 307 FOR "ITEM SPECIAL - UNDERGROUND UTILITIES, ODOT/GOVERNMENT OWNED AND MAINTAINED".

GENERAL SUMMARY

LIGHTING QUANTITIES

CALC. BY KRB DATE 1/5/96	HAM-71-2.92	OHIO	307	
CHKD. BY BAP DATE 1/8/96		FHWA REGION 5		615

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 Fschwab

SHEET NUMBER																SUBTOTALS		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION					
305	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331						332	GEN. NOTES	SUB SUMMARY		
						10	3		16	6	19	15	15							84	625	26250	84	EACH	LUMINAIRE, CONVENTIONAL STYLE B, TYPE II, 200 WATT, 713JI, 480 VOLT		
						18	24	38	20	26	18	28	24	18			16			230	625	26250	230	EACH	LUMINAIRE, CONVENTIONAL STYLE C, TYPE III, 310 WATT, 713JI, 480 VOLT		
																		8		8	625	26250	8	EACH	LUMINAIRE, CONVENTIONAL ASYMMETRIC, 400 WATT, HPS, 71.02I, 480 VOLT		
															48	42	52	19		161	625	26250	161	EACH	LUMINAIRE, CONVENTIONAL SYMMETRIC, 400 WATT, HPS, 71.02I, 480 VOLT		
									1											1	625	27400	1	EACH	LUMINAIRE, POST TOP, HPS, 713JI, 240 VOLT		
							1	13		5				2		6				27	625	27500	27	EACH	LUMINAIRE, UNDERPASS, HPS, 713J3, 240 VOLT		
								4												4	625	27500	4	EACH	LUMINAIRE, UNDERPASS, HPS, 713J3, 480 VOLT		
						240	312		1365	100	150	20	498		1265	1265	3684	435	50	9334	625	29600	9384	LIN.FT.	TRENCH IN PAVED AREA, TYPE B		
						1642	1111	30	3508	2242	3187	2318	3234		1905	1740	3297	1939		26143	625	29002	26143	LIN.FT.	TRENCH, 24" DEEP		
						1	1	6		4										12	625	29900	12	EACH	JUNCTION BOX		
						16	15	11	7	10	6	10	18	1	8	13	10	15		140	625	30700	140	EACH	PULL BOX, 713.08, 18"		
																	16			16	625	30701	16	EACH	PULL BOX, 713.08, 18", AS PER PLAN		
						3	2	9	3	5	1	6	2	4						35	625	31500	35	EACH	MEDIAN PULL BOX		
						18	12	19	22	19	25	27	25	9	16	14	20	15		241	625	32000	241	EACH	GROUND ROD		
								1	2		1		2	2	1		1			10	625	37101	10	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN		
																				LUMP		625	38000	LUMP		HIGH VOLTAGE TEST	
																				LUMP	SPECIAL	62540000	LUMP			MAINTAIN EXISTING LIGHTING	
						3	2	4	2	1	3	5		2	5	2	4	2		35	625	98000	35	EACH	LIGHTING MISC.: REFURBISH SIGN SERVICE, AS PER PLAN		
						6	6	3	2	2		1	5				3	6		34	SPECIAL	62598000	34	EACH	LIGHTING MISC.: RECONNECT EXISTING LIGHT STANDARD TO CIRCUIT		
								2	4	1	4	2	3	3	1	1	1	4	2		28	SPECIAL	62598000	28	EACH	LIGHTING MISC.: ELECTRIC SERVICE	
																				LUMP		SPECIAL	69098400	LUMP			ROADWAY MISC.: UNDERGROUND UTILITIES ODOT/GOVERNMENT OWNED AND MAINTAINED
																						625	29901	18	EACH	JUNCTION BOX, AS PER PLAN	
																				500	625	25920	500	LIN.FT.	CONDUIT MISC.: 2" RIGID CONDUIT, 713.04, IN STRUCTURE		
																				25	625	98000	25	EACH	LIGHTING MISC.: 2" RIGID CONDUIT EXPANSION FITTINGS		
																				20	SPECIAL	62598000	20	EACH	LIGHTING MISC.: CONNECTION TO EXISTING CONDUIT		
																				1	625	20000	1	EACH	PORTABLE POWER UNIT		

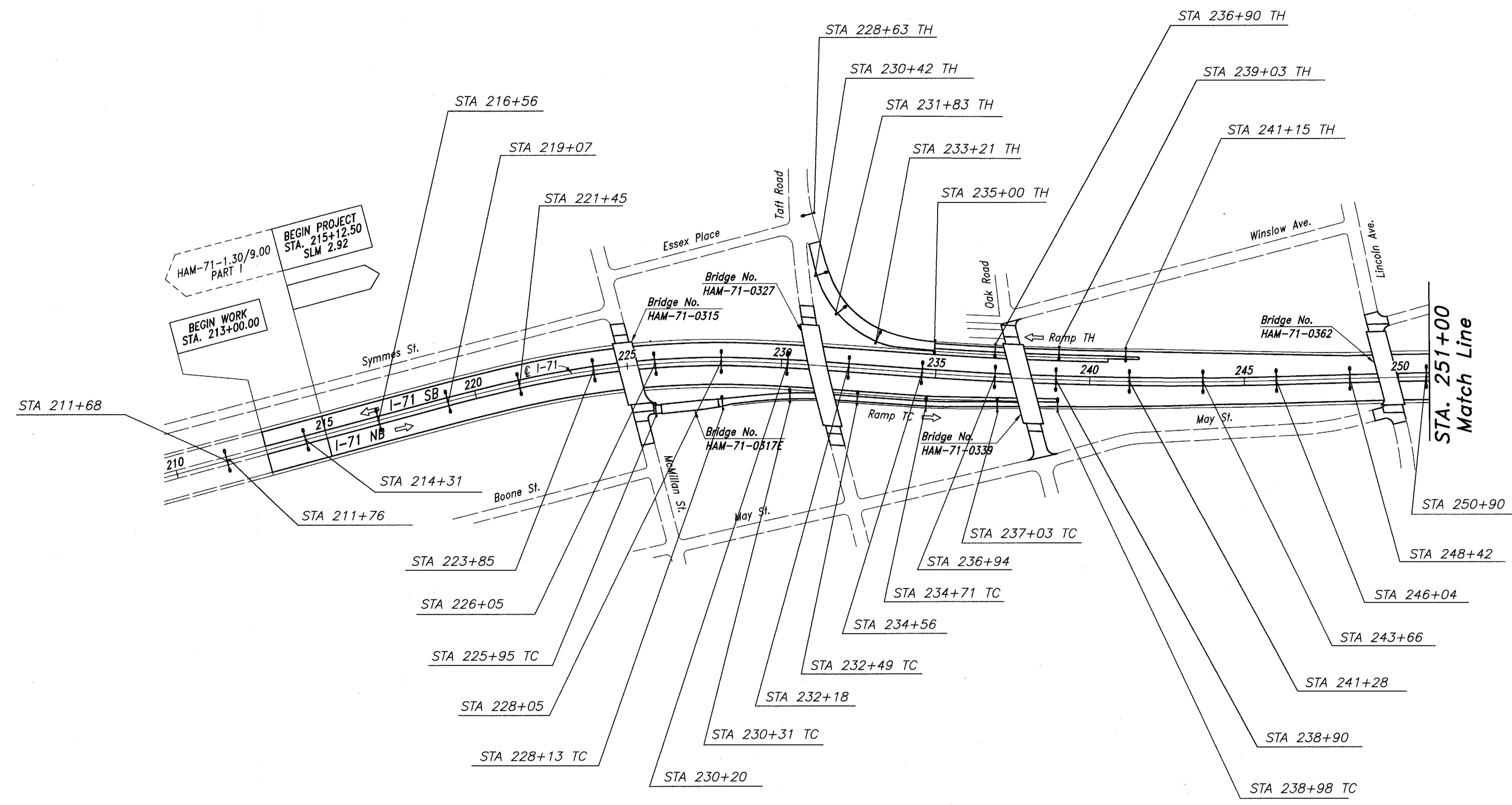
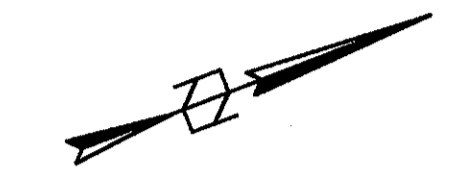
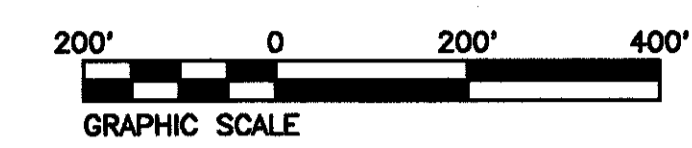
CALC. BY: KRB
DATE: 6/27/93
CHKD. BY: BAP
DATE: 9/5/93

HAM-71-2.92

OHIO
FHWA REGION 5

308
615

SCHEMATIC PLAN
STA 213+00 TO 251+00



HA 71 2.92 TC.dwg - DEC 16, 1993

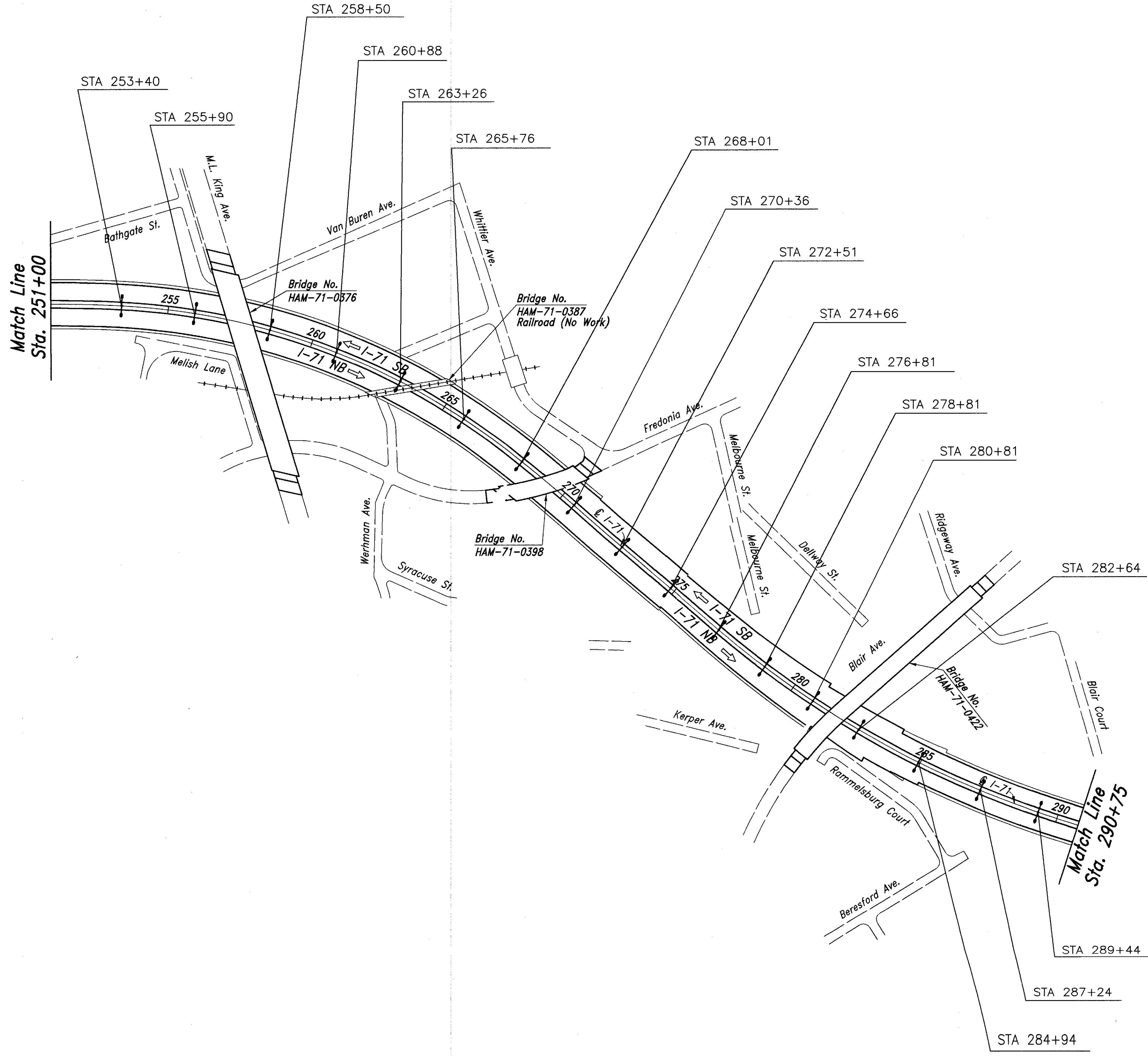
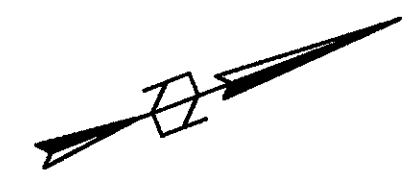
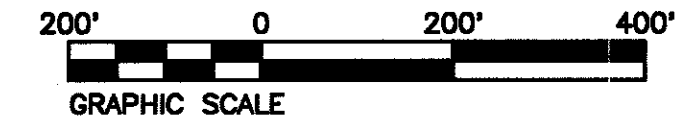
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 DATE 7/15/95

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OHIO
 FHWA REGION 5

309
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SCHEMATIC PLAN
 STA 251+00 TO STA 290+75



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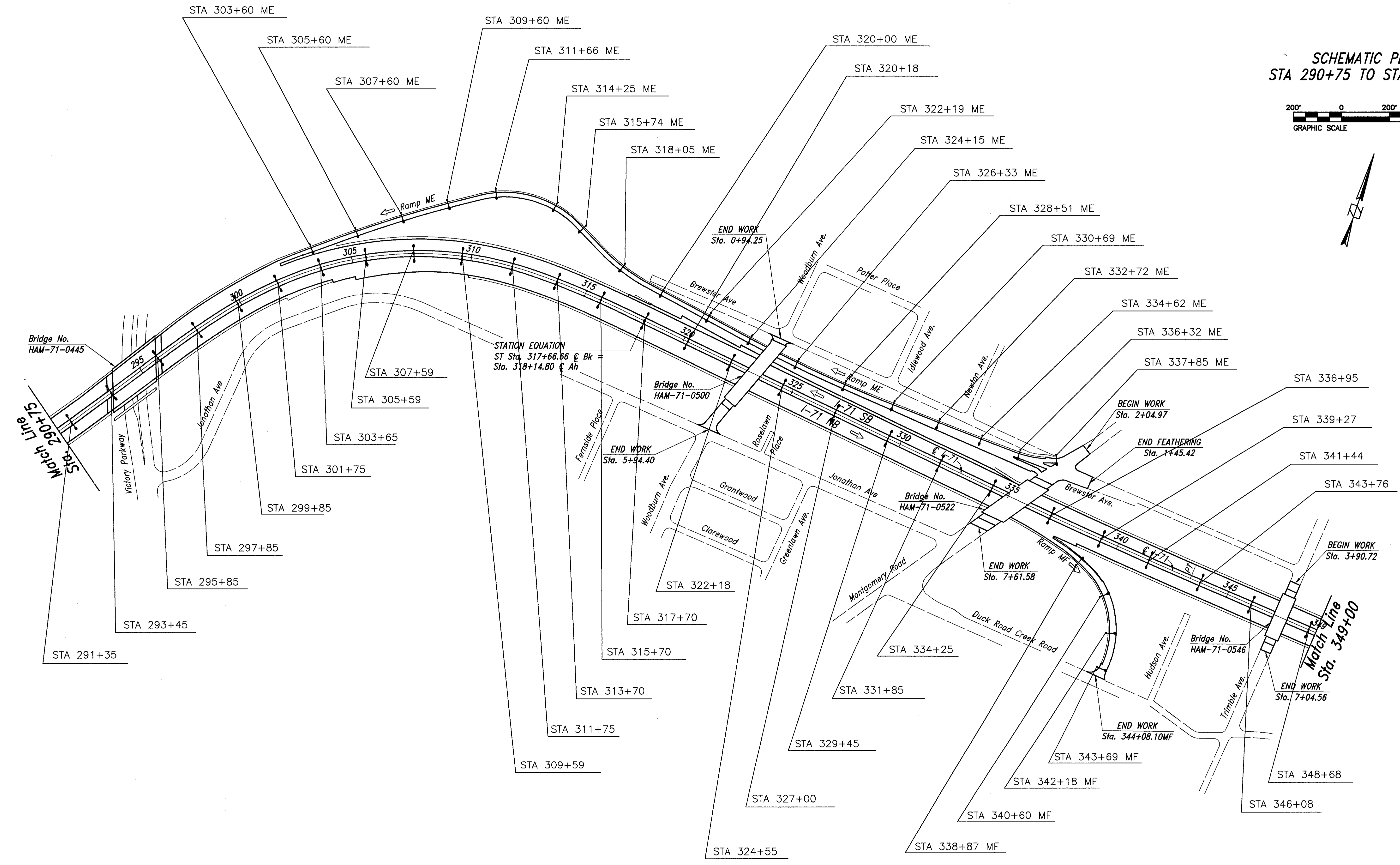
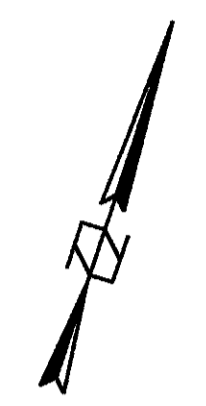
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 DATE: 6/27/95
 CHKD. BY: BAP
 DATE: 9/18/95

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OHIO
 FHWA REGION 5

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SCHEMATIC PLAN
 STA 290+75 TO STA 349+00



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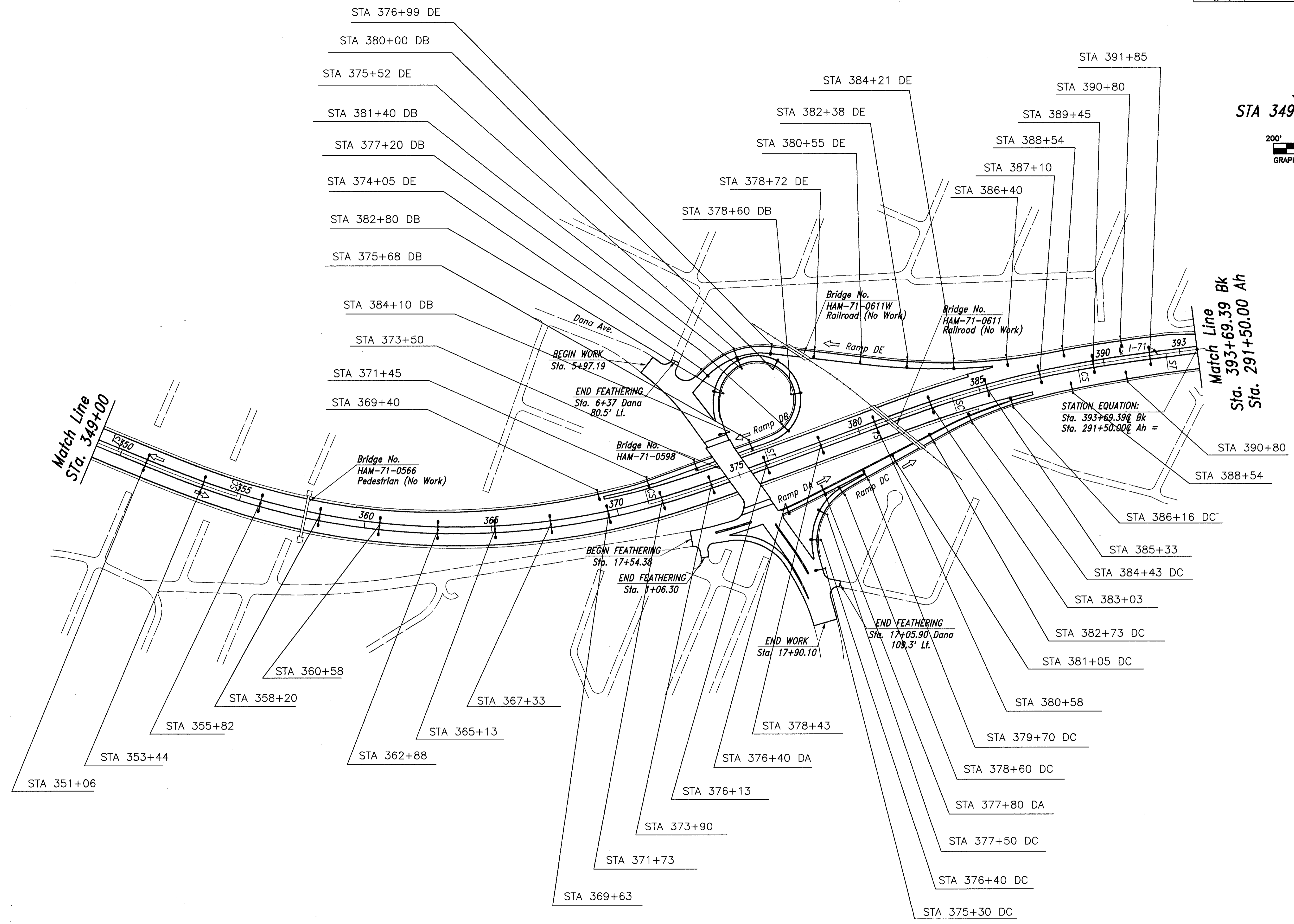
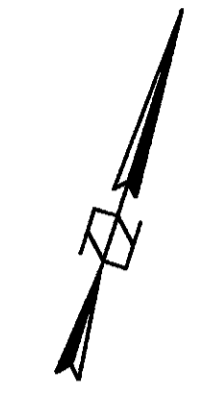
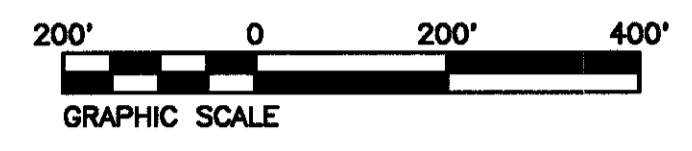
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 DATE: **6/21/95**
 CHKD. BY: **BAP**
 DATE: **7/15/95**

HAM-71-2.92

OHIO
 FHWA REGION **5**

311
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SCHEMATIC PLAN
STA 349+00 TO STA 393+69.39



Match Line
 Sta. 349+00

Match Line
 Sta. 393+69.39 Bk
 Sta. 291+50.00 Ah

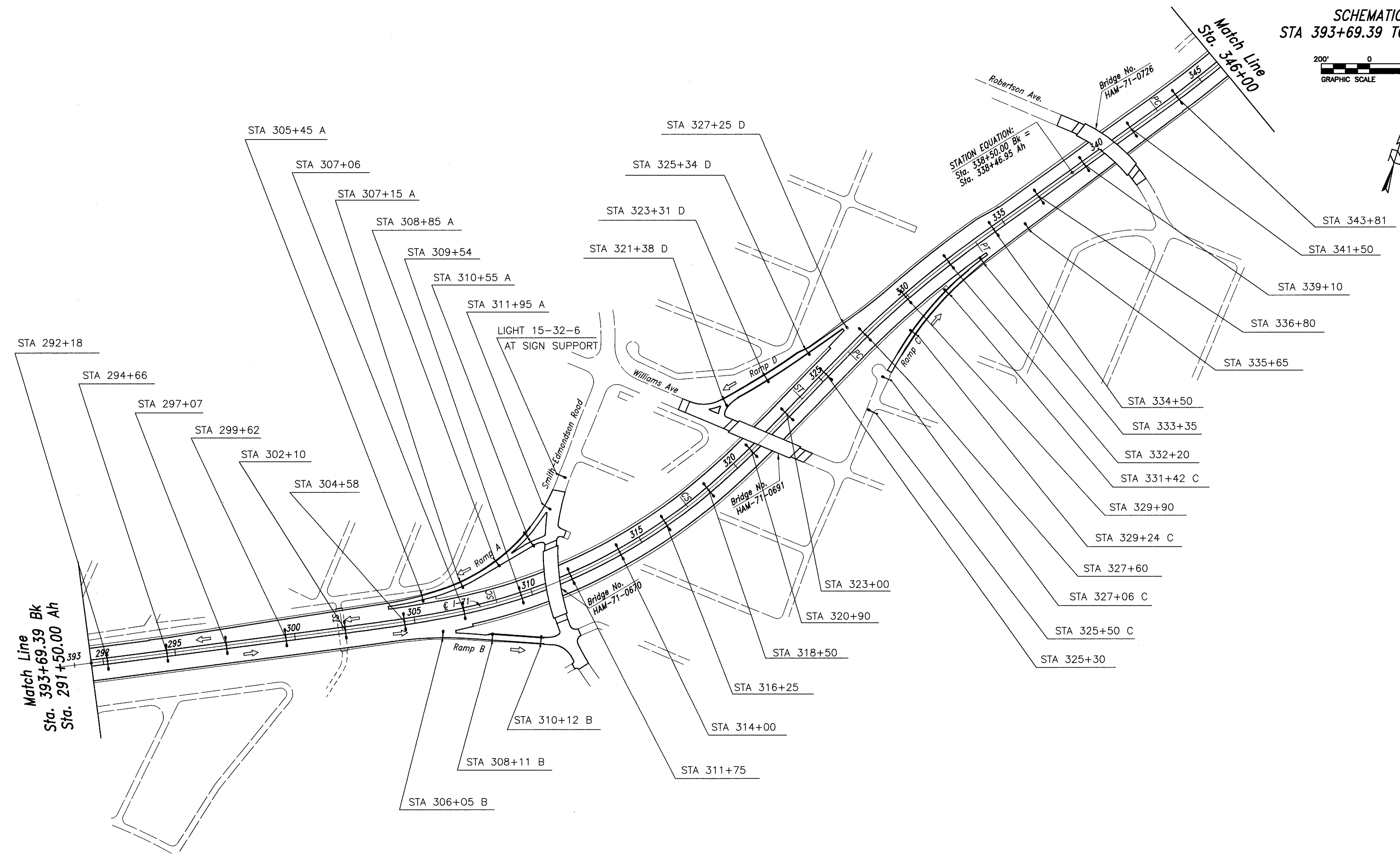
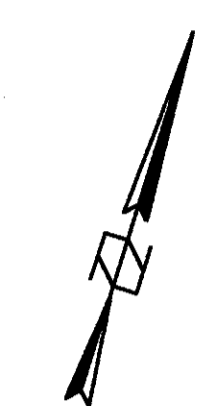
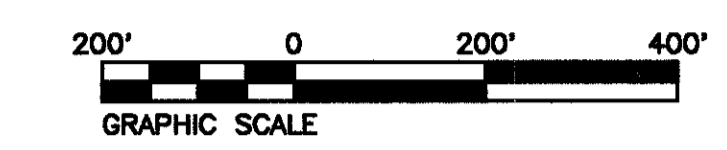
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DATE: 6/27/95
CHKD. BY: BAP
DATE: 9/13/95

HAM-71-2.92

OHIO
FHWA REGION 5

312
615

SCHEMATIC PLAN
STA 393+69.39 TO STA 346+00



Match Line
Sta. 393+69.39 Bk
Sta. 291+50.00 Ah

Match Line
Sta. 346+00

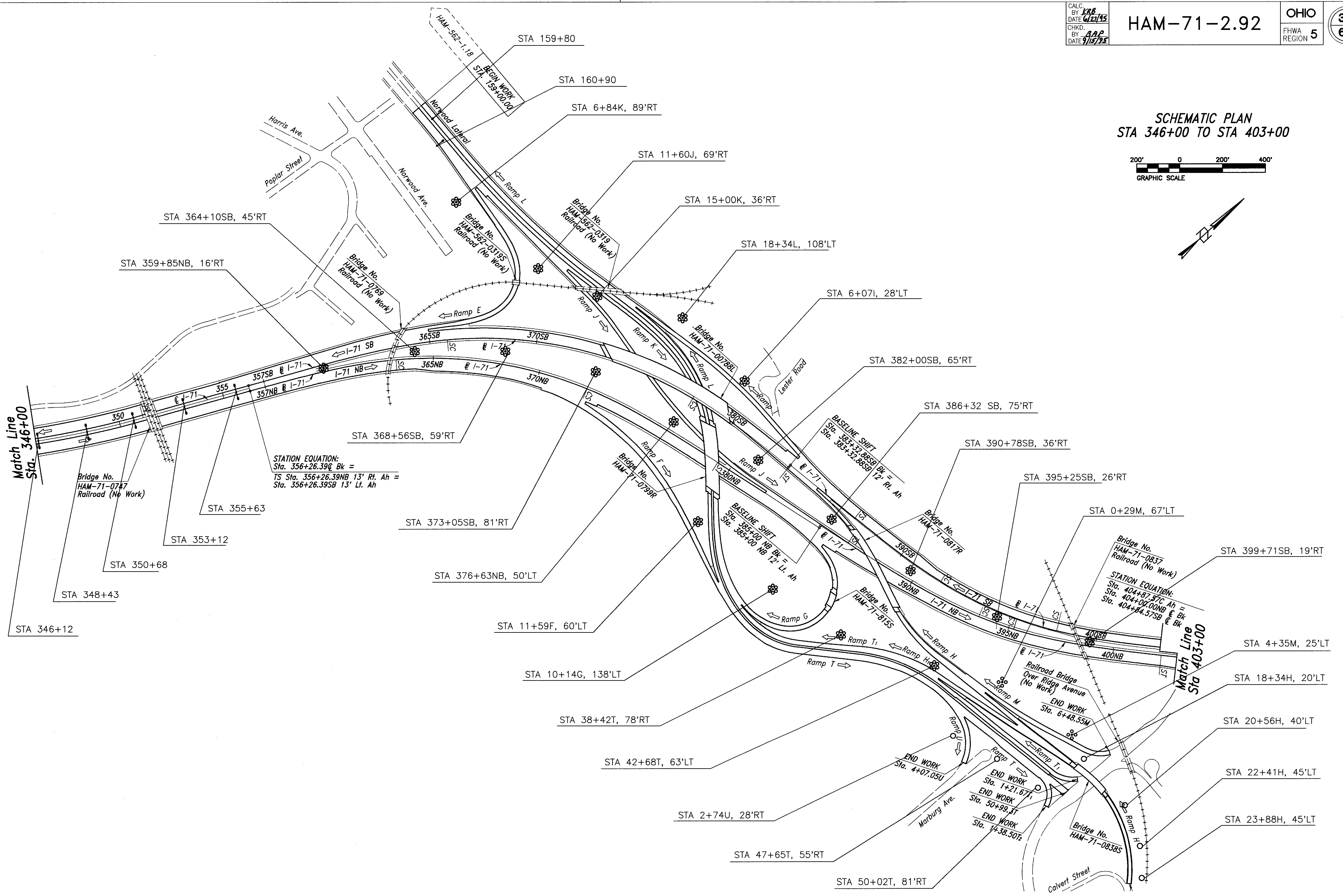
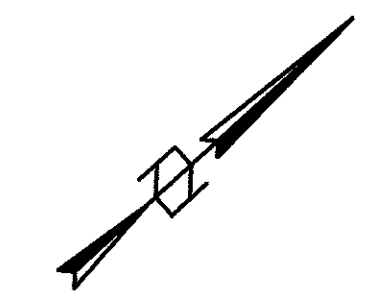
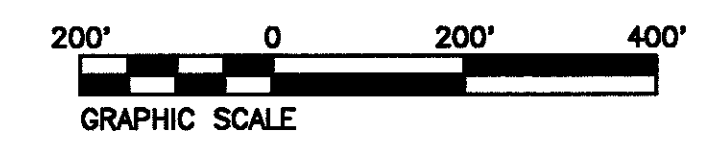
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 CHKD. BY: AAP
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OHIO
 FHWA REGION 5

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SCHEMATIC PLAN
STA 346+00 TO STA 403+00



STATION EQUATION:
 Sta. 356+26.39@ Bk =
 TS Sta. 356+26.39NB 13' Rt. Ah =
 Sta. 356+26.39SB 13' Lt. Ah

STATION EQUATION:
 Sta. 404+87.87C Ah =
 Sta. 404+00.00NB @ Bk
 Sta. 404+84.57SB @ Bk

PL 2112 (2/92) (10/95) - DEC. 16, 1991

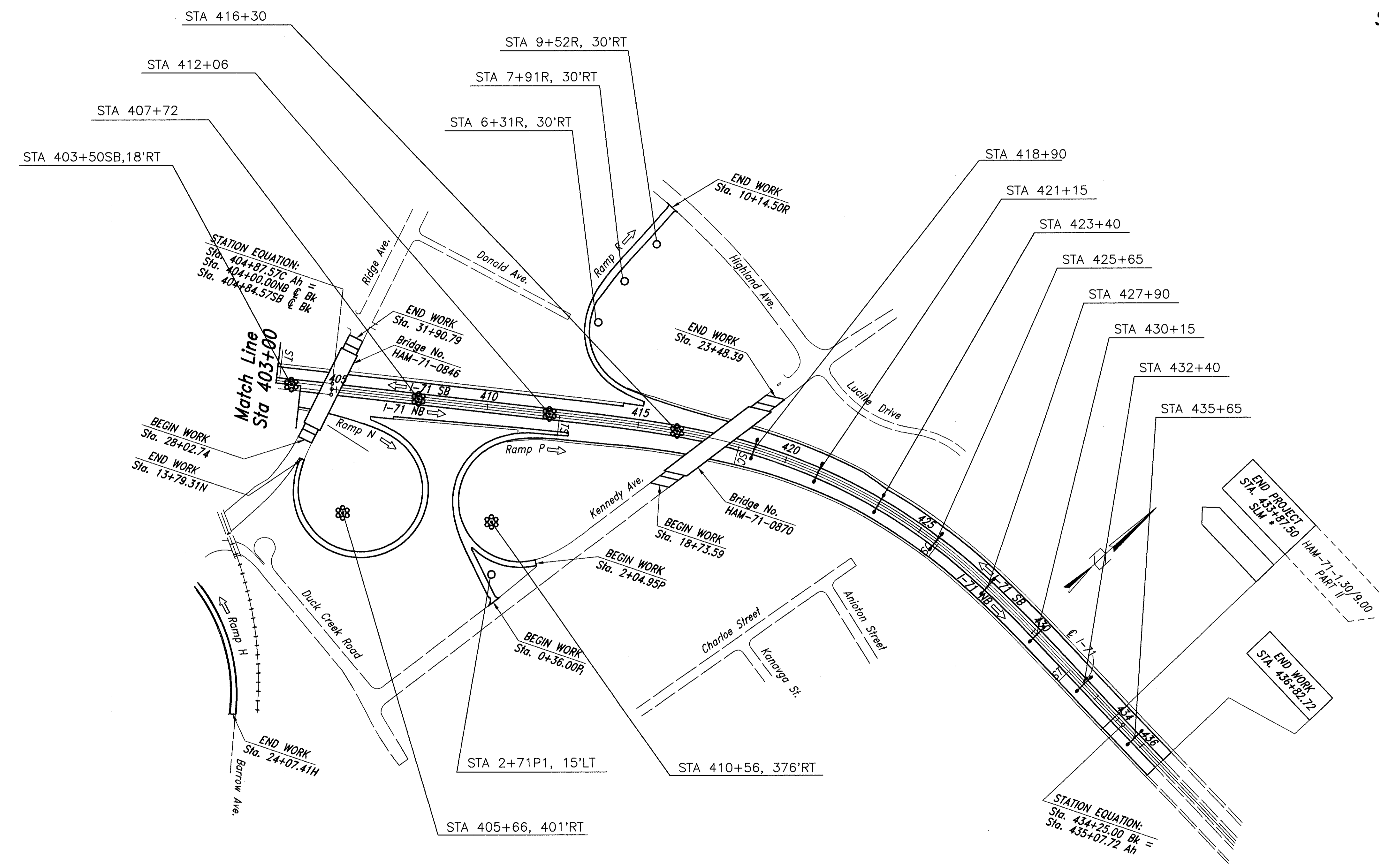
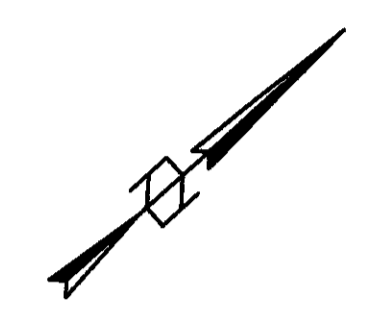
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HAM-71-2.92

OHIO
 FHWA REGION 5

314
 615

SCHEMATIC PLAN
 STA 403+00 TO STA 436+00

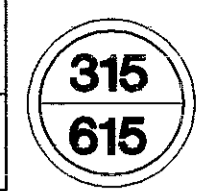


14.719.920.T01.dwg - DEC. 16, 1991

CALC. BY: KRB
 DATE: 1/5/98
 CHKD. BY: BAP
 DATE: 1/8/98

HAM-71-2.92

OHIO
 FHWA REGION 5



DEMOLITION SUB-SUMMARY

SHEET NO.	REFERENCE NO.	STATION		LOCATION	SIDE	ITEM 202							ITEM 625						
						REMOVAL OF EXISTING CABLE AND CONDUIT 98200	REMOVAL OF EXISTING HANDHOLES, JUNCTION BOXES AND PULL BOXES 75300	REMOVAL OF EXISTING LIGHT POLE 75400	REMOVAL OF EXISTING LUMINAIRE FOR STORAGE 75504	UNDERPASS LUMINAIRE REMOVED, AS PER PLAN 75506	DISCONNECT EXISTING CIRCUIT 98100	REMOVAL MISC.: MEDIUM LIGHT POLE FOUNDATION REMOVED 98100	LIGHT POLE FOUNDATION REMOVED 75500	CONDUIT CLEANED AND CABLES REMOVED 625 25910	PULLBOX CLEANED 625 31600	LIN. FT.	EACH		
		LIN. FT.	EACH			EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	EACH						
333		213+00	222+00	I-71			6	9	12				3						
333		213+00	222+00	I-71	LEFT/RIGHT								6	270	5				
333		213+00	222+00	I-71	LEFT									40					
334		222+00	236+00	I-71			20	19	25	1	3	5	8			14			
334		222+00	236+00		LEFT/RIGHT									345					
334		222+00	236+00		LEFT/RIGHT									280					
334		222+00	236+00	McMILLIAN	LEFT									85					
334		222+00	236+00	McMILLIAN	LEFT/RIGHT									135					
334		222+00	236+00	RAMP TC	LEFT/RIGHT								5	305					
334		222+00	236+00	TAFT RD	LEFT/RIGHT									557					
334		222+00	236+00	RAMP TH	LEFT/RIGHT								4	45					
334		222+00	236+00	RAMP TH	LEFT/RIGHT									65					
335		236+00	251+00	I-71	LEFT/RIGHT		16	7	25	1	3	7				14			
335		236+00	251+00	I-71	LEFT/RIGHT			12					12	320					
335		236+00	251+00	OAK ST.	LEFT/RIGHT									415					
335		236+00	251+00	LINCOLN AVE	LEFT/RIGHT									532					
336		251+00	266+00	I-71				5	10	1	2	5							
336		251+00	266+00	I-71			12	6	6				6	320	4				
TOTALS							54	58	78	3	8	20	41	3714	37				

DEMOLITION SUB-SUMMARY

SHEET NO.	REFERENCE NO.	STATION		LOCATION	SIDE	ITEM 202							ITEM 625						
						REMOVAL OF EXISTING CABLE AND CONDUIT 98200	REMOVAL OF EXISTING HANDHOLES, JUNCTION BOXES AND PULL BOXES 75300	REMOVAL OF EXISTING LIGHT POLE 75400	REMOVAL OF EXISTING LUMINAIRE FOR STORAGE 75504	UNDERPASS LUMINAIRE REMOVED, AS PER PLAN 75506	DISCONNECT EXISTING CIRCUIT 98100	REMOVAL MISC.: MEDIUM LIGHT POLE FOUNDATION REMOVED 98100	LIGHT POLE FOUNDATION REMOVED 75500	CONDUIT CLEANED AND CABLES REMOVED 625 25910	PULLBOX CLEANED 625 31600	LIN. FT.	EACH		
		LIN. FT.	EACH			EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	EACH						
337		266+00	279+00	MAIN LINE	MEDIAN								3	7	14				
337		270+60	270+60	CROSSOVER	LEFT	50							2						2
337		8+52	11+23	FREDONIA AVE	LEFT									4				280	2
337		8+52	8+52	FREDONIA AVE															
337		8+52	12+26	FREDONIA AVE	RIGHT	60								1					
338		279+00	294+00	MAIN LINE	MEDIAN									7	14				
338		288+20	293+00	CROSSOVER	RIGHT								2					240	2
338		293+00	293+00	CROSSOVER	LEFT									1				80	2
339		294+00	308+00	MAIN LINE	MEDIAN									6	12				6
339		295+00	295+00	VICTORY ROADWAY	-											13		320	15
339		295+05	295+07	CROSSOVER	RIGHT									1				50	
339		299+12	308+00	RAMP ME	LEFT									5	5			5	1
340		308+00	321+00	MAIN LINE	MEDIAN									2	6	12			6
340		319+30	323+00	CROSSOVER	LEFT									1	7	7		160	2
340		308+00	323+00	RAMP ME	LEFT									1	7	7		7	
TOTALS						110	10	38	64	17	7	26	12	1130	26				

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CALC. BY: *KRB*
 DATE: *1/5/96*
 CHKD. BY: *BAP*
 DATE: *1/8/96*

HAM-71-2.92

OHIO
 FHWA REGION 5

318
 615

DEMOLITION SUB-SUMMARY

SHEET NO.	REFERENCE NO.	STATION		LOCATION	SIDE	ITEM 202							ITEM 625		
		FROM	TO			REMOVAL OF EXISTING CABLE AND CONDUIT 98200	REMOVAL OF EXISTING HANDHOLES, JUNCTION BOXES AND PULL BOXES 75300	REMOVAL OF EXISTING LIGHT POLE 75400	REMOVAL OF EXISTING LUMINAIRE FOR STORAGE 75504	UNDERPASS LUMINAIRE REMOVED, AS PER PLAN 75506	DISCONNECT EXISTING CIRCUIT 98100	REMOVAL MISC.: MEDIAN LIGHT POLE FOUNDATION REMOVED 98100	LIGHT POLE FOUNDATION REMOVED 75500	CONDUIT CLEANED AND CABLES REMOVED 625 25910	PULLBOX CLEANED 625 31600
		LIN. FT.	EACH			EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	EACH		
356		335+00	338+00	MONTGOMERY		1					1		80	1	
356		2+00	8+00	MONTGOMERY						4					
356		POWER SERVICE	337+87	CROSSOVER							1		120		
357		378+00DE	DANA AVE	RAMP DE											
357		381+00DB	DANA AVE	RAMP DB		4					1		40	2	
357		380+00DC	DANA AVE	RAMP DC							1		40	2	
358		309+00A	313+57	RAMP A		3	1	2			1		1	75	
358		909+50B	310+25	RAMP B			1	1			1		1	1	
		14+00	RIGHT	SMITH-EDMONSON							1			1	
359		332+50D	WILLIAMS	RAMP D			1	1			1		60	1	
359		13+61	20+32	WILLIAMS RD		6							740	4	
360		6+00	HIGHLAND	RAMP R		3	3	3			1		3		
360		4+00P	KENNEDY	RAMP P			3	3			1		3		
TOTALS						17	9	10	4	10		9	1155	12	

DEMOLITION SUB-SUMMARY

SHEET NO.	REFERENCE NO.	STATION		LOCATION	SIDE	ITEM 202							ITEM 625		
		FROM	TO			REMOVAL OF EXISTING CABLE AND CONDUIT 98200	REMOVAL OF EXISTING HANDHOLES, JUNCTION BOXES AND PULL BOXES 75300	REMOVAL OF EXISTING LIGHT POLE 75400	REMOVAL OF EXISTING LUMINAIRE FOR STORAGE 75504	UNDERPASS LUMINAIRE REMOVED, AS PER PLAN 75506	DISCONNECT EXISTING CIRCUIT 98100	REMOVAL MISC.: MEDIAN LIGHT POLE FOUNDATION REMOVED 98100	LIGHT POLE FOUNDATION REMOVED 75500	CONDUIT CLEANED AND CABLES REMOVED 625 25910	PULLBOX CLEANED 625 31600
		LIN. FT.	EACH			EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	EACH		
				NORWOOD LATERAL											
361		158+00	12+00E	RAMP E			2	3	3				2	3	
361		158+00	17+50L	RAMP L			2	5	5				1	5	
361		8+00	16+69.77J	RAMPS J, K			3	5	5				1	5	
361		9+80J	-	CROSSOVER										100 2	
362		17+50L	4+00I	RAMP I				1	1					1	
362		17+50L	8+00G	RAMPS L, T, G			1	7	7		3		7	40 2	
362		17+50L	36+00T	RAMPS K, T			2	6	6				6	1	
362		6+00F	36+00T	RAMP F			3	5	5				5	40 2	
363		2+00H	4+00M	RAMP H			2	8	8			1		8	
363		36+00T	6+00H					5	5					5	
363		36+00T	48+75T				2	8	8					8 40 2	
363		2+08M	POWER SERVICE	CROSSOVER			2					1		320 6	
TOTALS						19	53	53	3	6		53	540	18	

CALC. BY: KRP
 DATE: 1/5/94
 CHKD. BY: BAP
 DATE: 1/8/94

HAM-71-2.92

OHIO
 FHWA REGION 5

319
 615

DEMOLITION SUB-SUMMARY

SHEET NO.	REFERENCE NO.	STATION		LOCATION	SIDE	ITEM 202							ITEM 625		
		FROM	TO			REMOVAL OF EXISTING CABLE AND CONDUIT 98200	REMOVAL OF EXISTING HANDHOLES, JUNCTION BOXES AND PULL BOXES 75300	REMOVAL OF EXISTING LIGHT POLE 75400	REMOVAL OF EXISTING LUMINAIRE FOR STORAGE 75504	UNDERPASS LUMINAIRE REMOVED, AS PER PLAN 75506	DISCONNECT EXISTING CIRCUIT 98100	REMOVAL MISC.: MEDIAN LIGHT POLE FOUNDATION REMOVED 98100	LIGHT POLE FOUNDATION REMOVED 75500	CONDUIT CLEANED AND CABLES REMOVED 625 25910	PULLBOX CLEANED 625 31600
						LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	EACH
364		48+75T	RIDGE	RIDGE AVE			5	6	6	1	3		6	260	4
364		6+00H	24+28H	RAMP H			1	5	5				5		
364		4+00M	26+60	RAMP M			1	3	3	1			3	80	2
364		8+00N	RIDGE	RAMP N				5	5				5		2
TOTALS							7	19	19	2	3		19	340	8

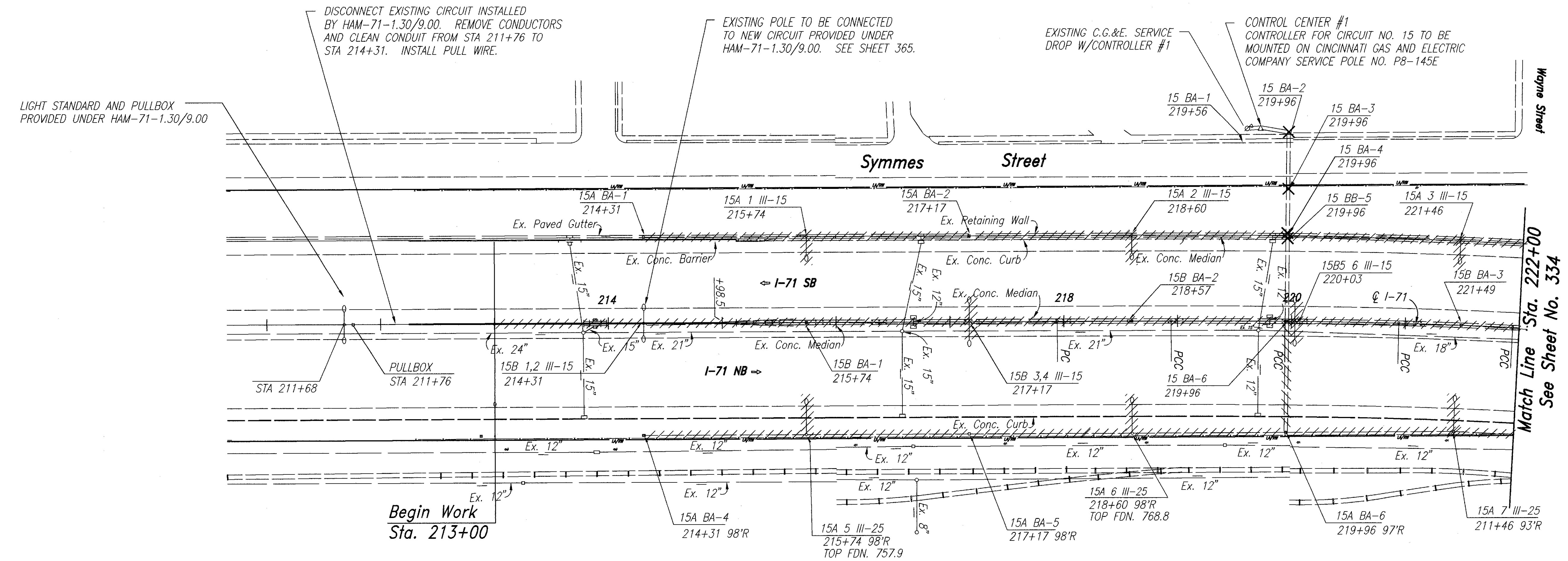
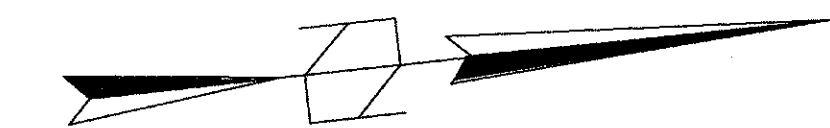
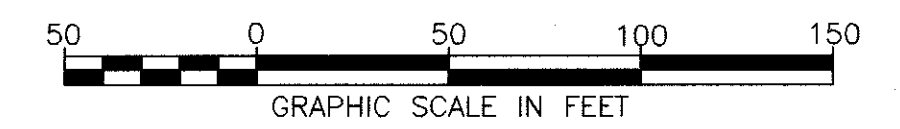
HAM-71-2.92(1) - DEC. 16, 1991

CALC. BY: KCB
DATE: 4/27/95
CHKD. BY: BAP
DATE: 9/15/95

HAM-71-2.92

OHIO
FHWA REGION 5

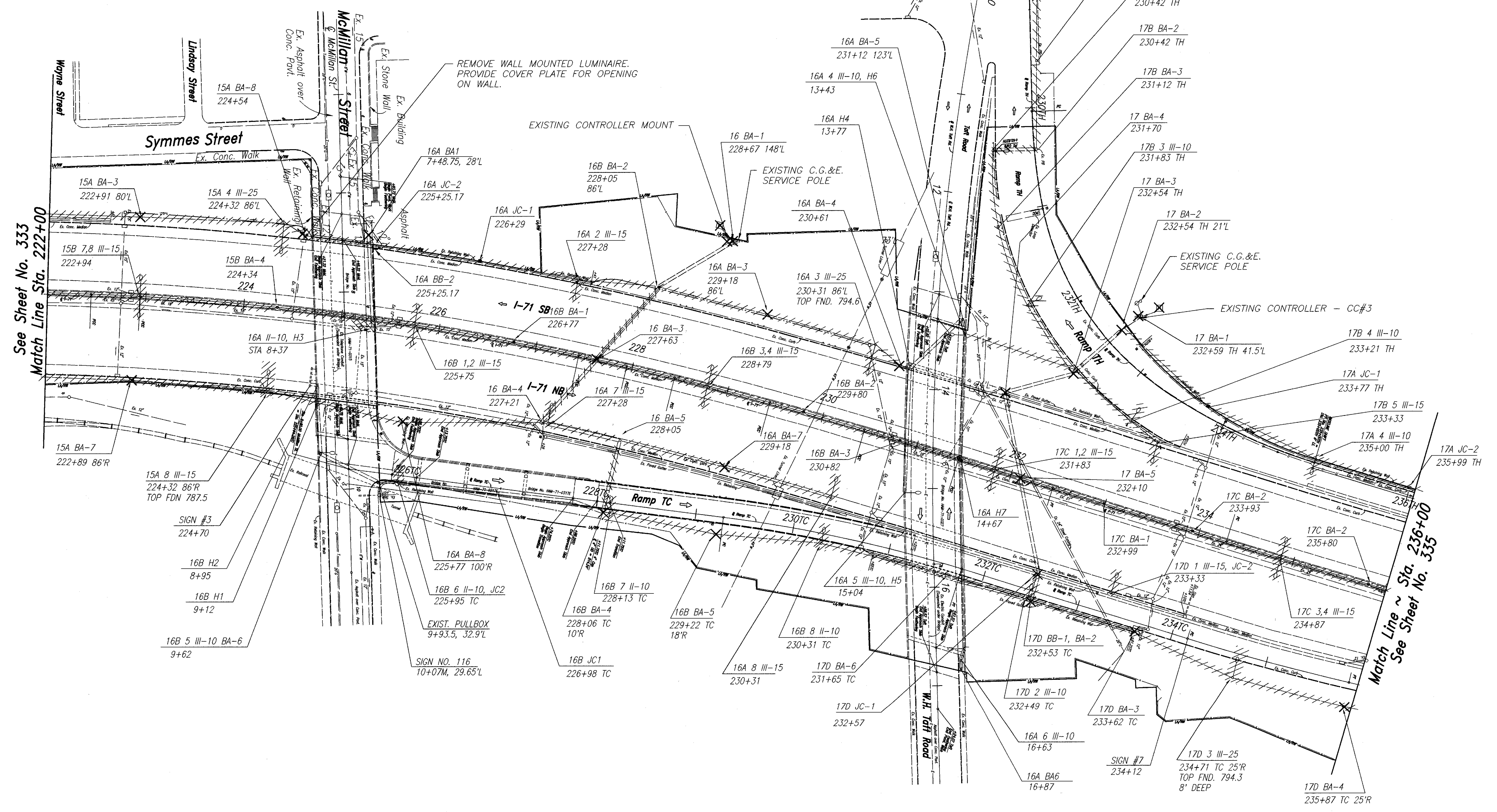
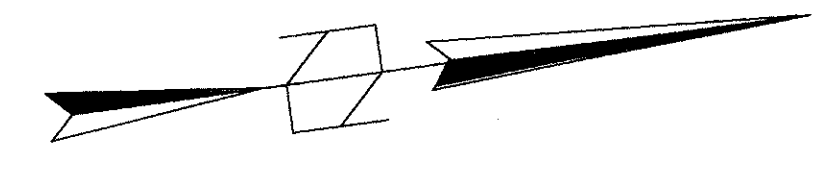
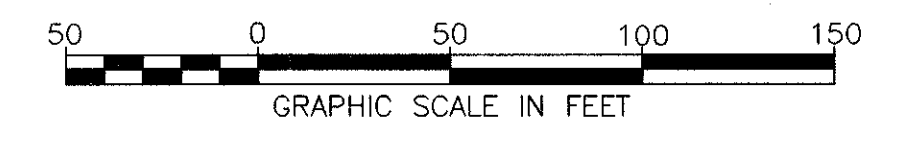
333
615



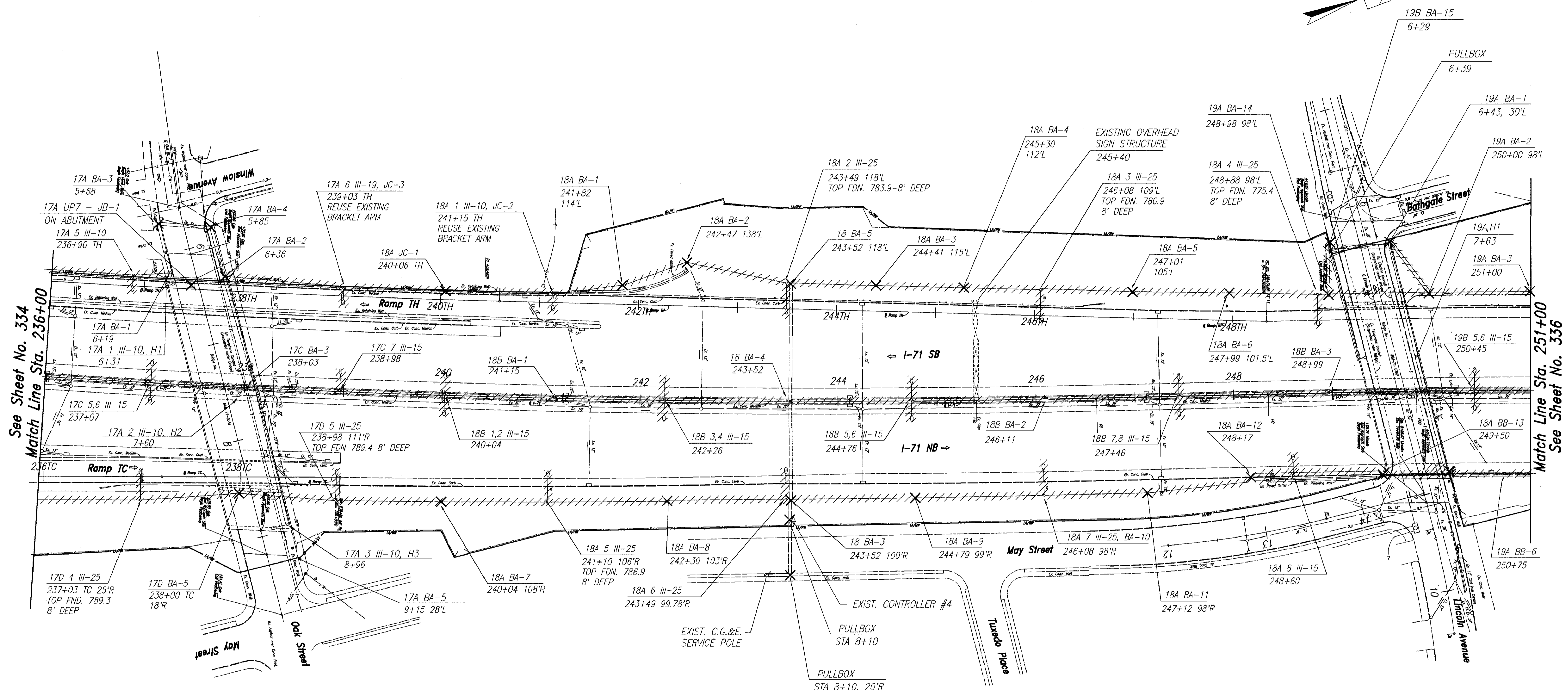
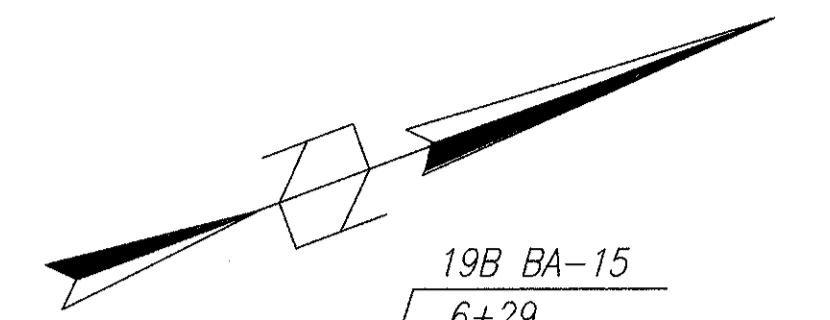
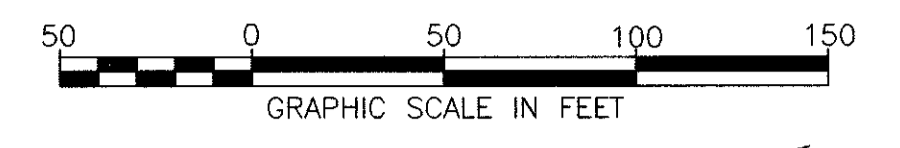
DEMOLITION LEGEND

- | | | | |
|------|---------------------------------------------------------------------------------------------------|------|----------------------------------------------------|
| ⊗ | EXIST PHOTOCELL TO BE REMOVED | ---- | EXIST. CIRCUIT CONDUCTORS TO BE MAINTAINED |
| □ | EXISTING P.B. TO REMAIN | //// | EXIST. DIRECT BURIED CABLE DUCT TO BE ABANDONED |
| ✕ | EXISTING P.B. TO BE REMOVED | //// | EXIST CONDUIT TO BE ABANDONED OR REMOVED AS NOTED. |
| ■ | EXIST. WALL OR BARRIER J.B. TO REMAIN | == | EXIST. BURIED CONDUIT TO REMAIN |
| ▬ | EXIST. BRIDGE MOUNTED O.H. SIGN TO REMAIN | △ | EXIST. CONTROL CENTER TO REMAIN |
| —●— | EXIST. TRUSS O.H. SIGN TO REMAIN | ✕ | EXIST. CONTROL CENTER TO BE REMOVED |
| — | EXIST. O.H. SIGN TO REMAIN | ⊙ | JUNCTION BOX, SURFACE MOUNTED |
| ○ | EXIST. ROADWAY FIXTURE TO REMAIN | ✕ | EXIST. UNDERPASS LUMINAIRE TO BE REMOVED |
| //// | EXIST. ROADWAY POLE AND LUMINARIE TO BE REMOVED | •• | EXIST. SIGN TO REMAIN, NO POWER REQUIREMENTS |
| ⊗ | EXIST 200W H.P.S., STRUCTURE, BARRIER OR WALL MTD TO BE REMOVED. ADJACENT RECESSED J.B. TO REMAIN | ✕ | EXIST. (POWER SERVICE FOR SIGN) TO BE REMOVED |
| ✕ | EXIST POST TOP MOUNTED LUMINAIRE, TO BE REMOVED | ⊙ | EXIST. UTILITY POLE OWNED BY C. G. & E. |
| ⊙ | EXIST SURFACE MOUNTED PENDANT TYPE UNDERPASS LUMINAIRE TO REMAIN. TYPE V DISTRIBUTION | | |

DEMOLITION PLAN



DEMOLITION PLAN



See Sheet No. 334
 Match Line Sta. 236+00

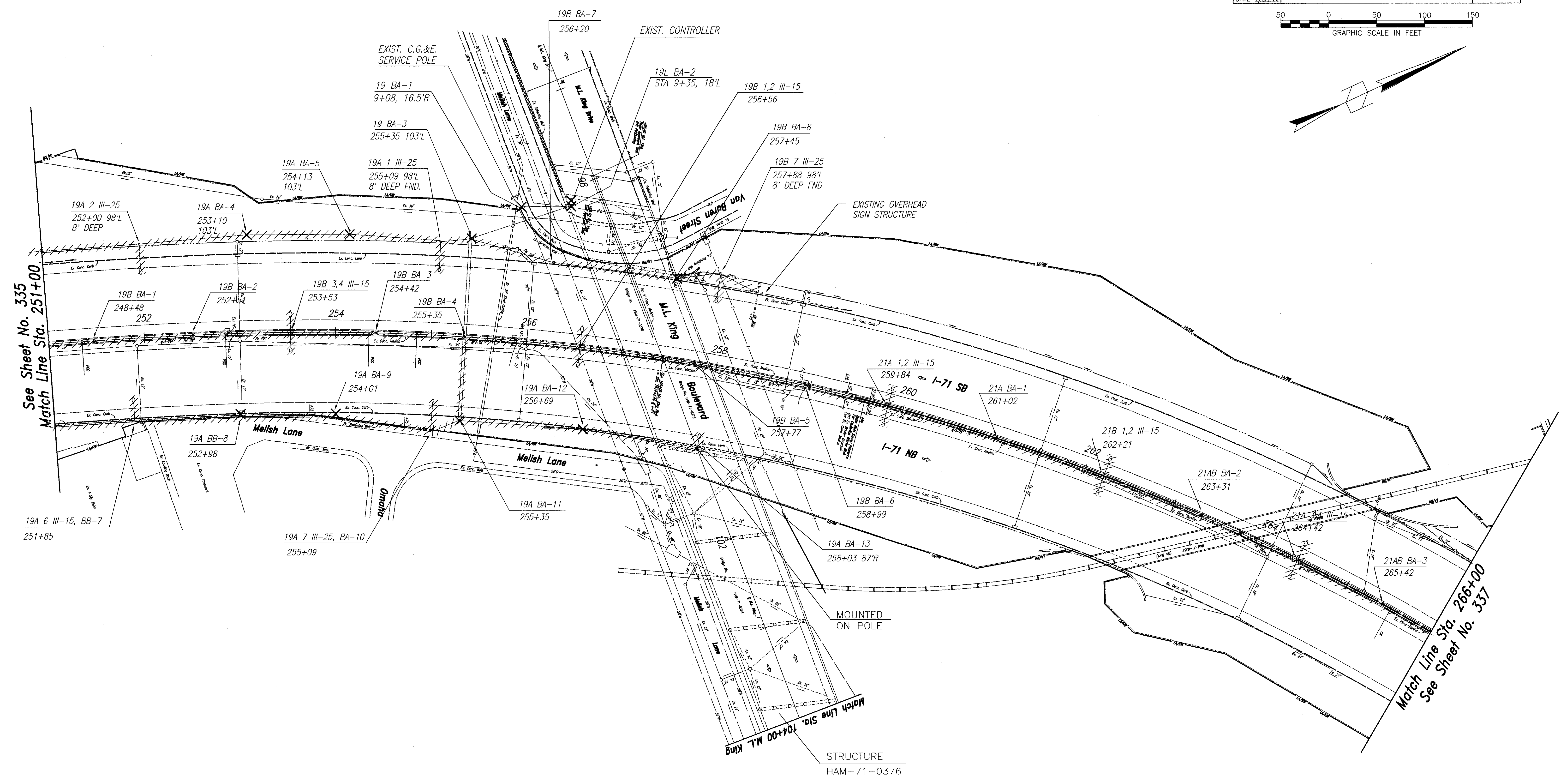
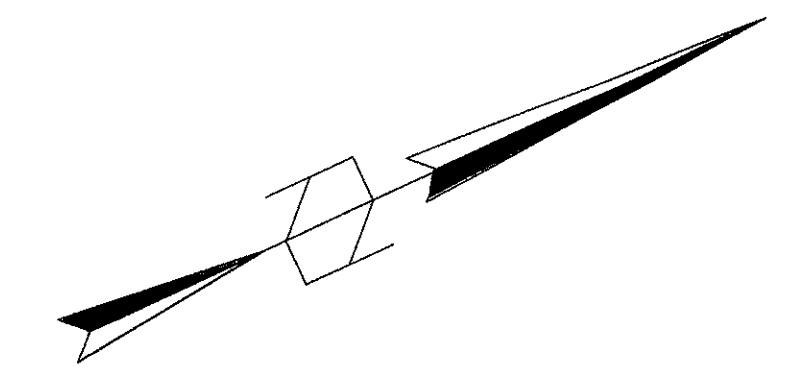
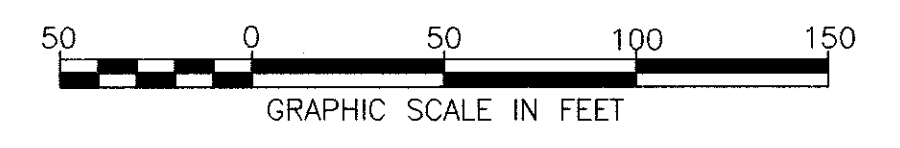
Match Line Sta. 251+00
 See Sheet No. 336

CALC. BY: KRB
DATE: 1/5/96
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DATE: 1/8/96

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336
615



DEMOLITION PLAN

Sta. 251+00 to 266+00

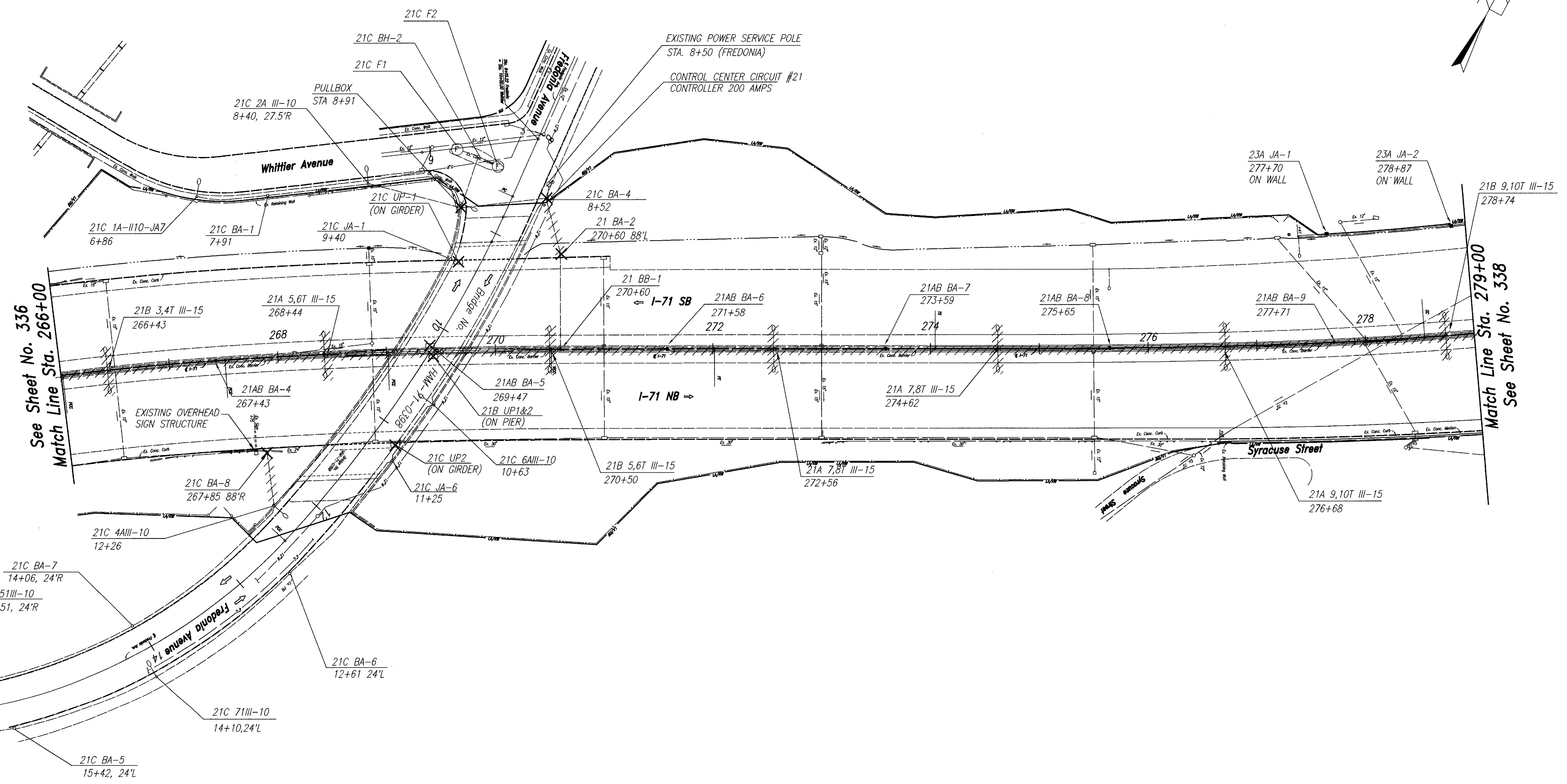
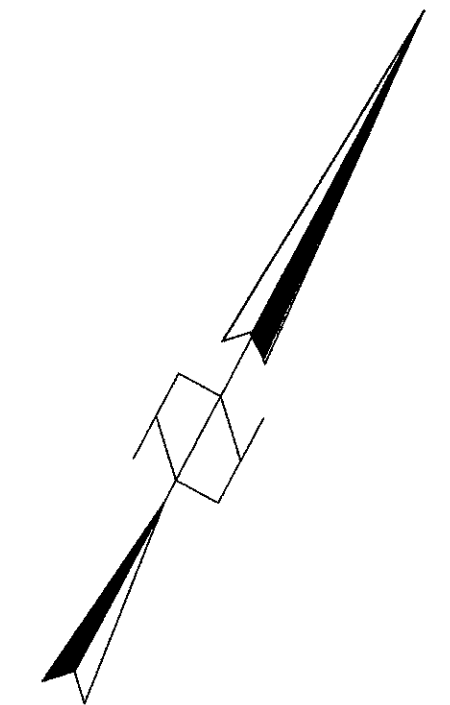
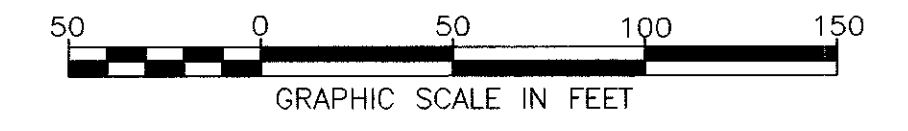
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CALC. BY: KRB
DATE: 7/5/96
CHKD BY: BAP
DATE: 1/8/98

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OHIO
FHWA REGION 5

337
615



See Sheet No. 336
Match Line Sta. 266+00

Match Line Sta. 279+00
See Sheet No. 338

DEMOLITION PLAN

Sta. 266+00 to 279+00

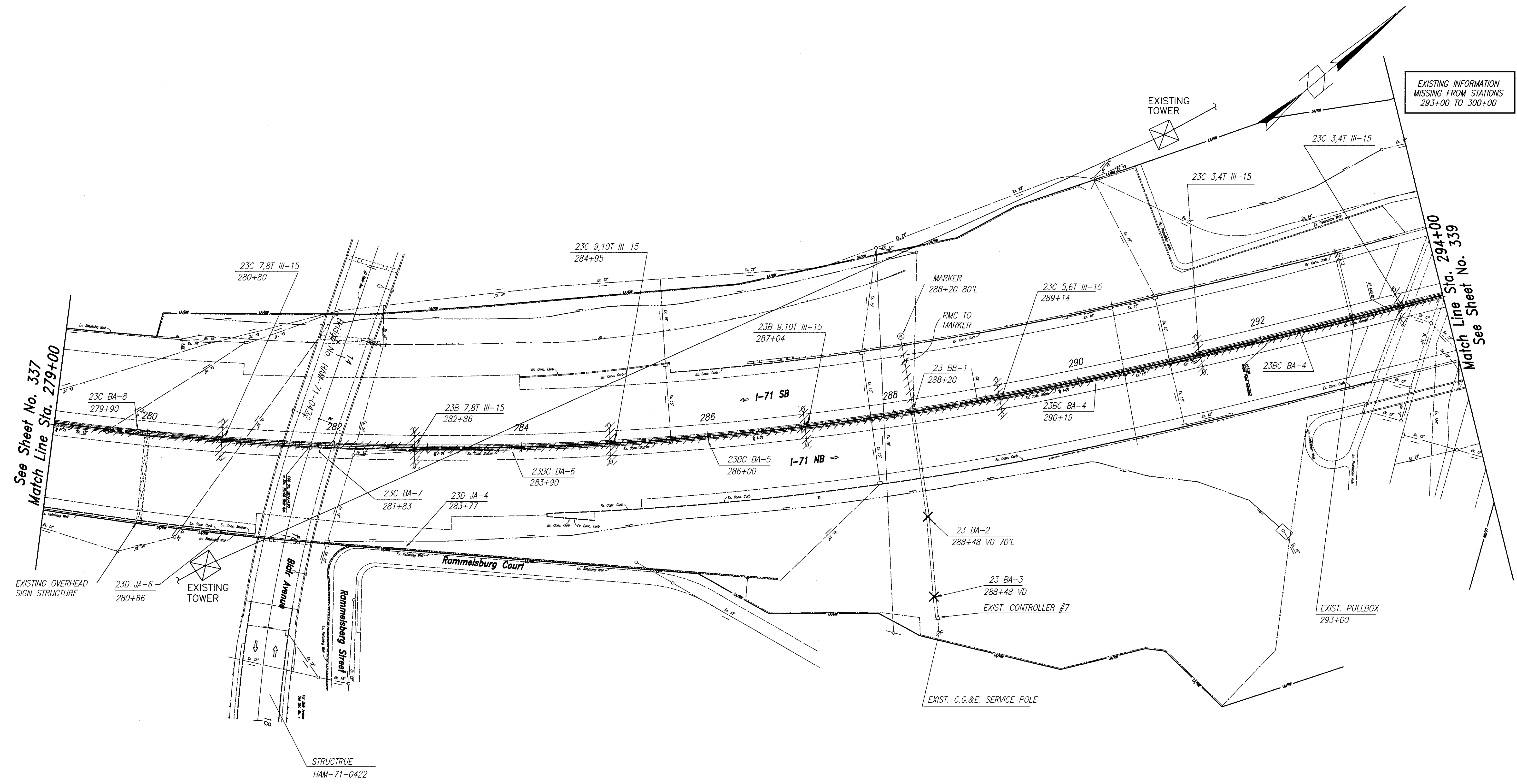
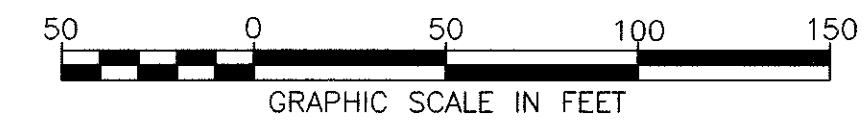
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CALC. BY: *KEB*
DATE: *6/2/85*
CHKD. BY: *BAP*
DATE: *9/15/85*

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OHIO
FHWA
REGION 5

338
615



DEMOLITION PLAN

Sta. 279+00 to 294+00

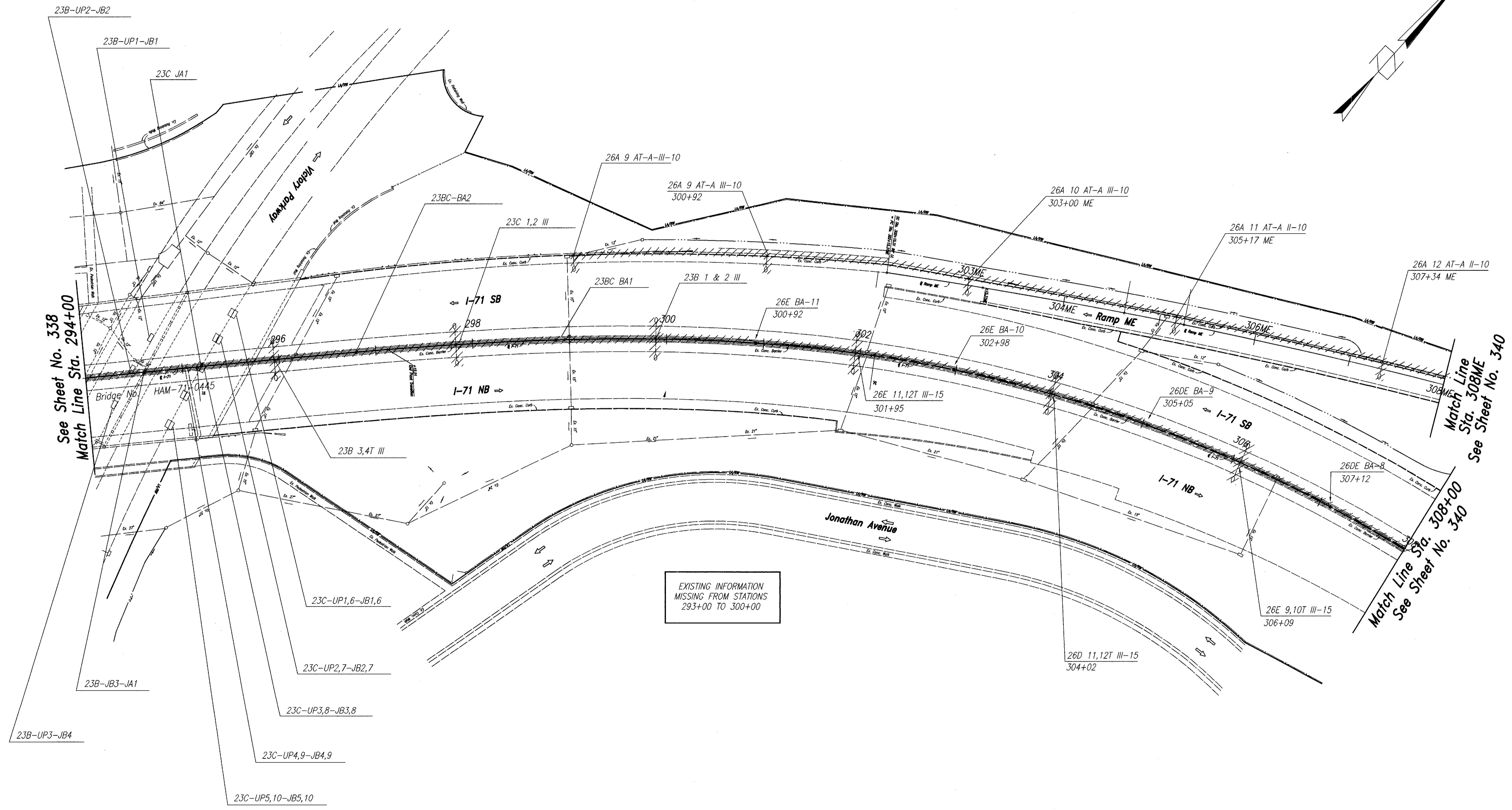
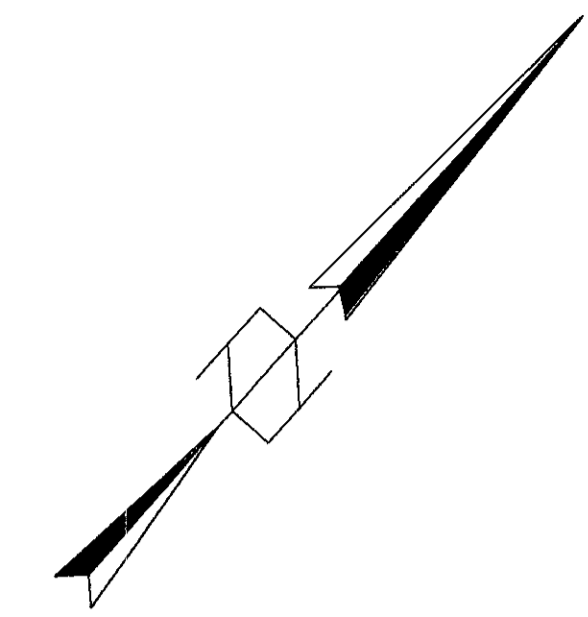
© 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992

CALC. BY: K&B
DATE: 6/27/95
CHKD. BY: BAP
DATE: 9/15/98

HAM-71-2.92

OHIO
FHWA REGION 5

339
615



See Sheet No. 338
Match Line Sta. 294+00

Match Line
Sta. 308ME
See Sheet No. 340

Match Line Sta. 308+00
See Sheet No. 340

EXISTING INFORMATION
MISSING FROM STATIONS
293+00 TO 300+00

DEMOLITION PLAN

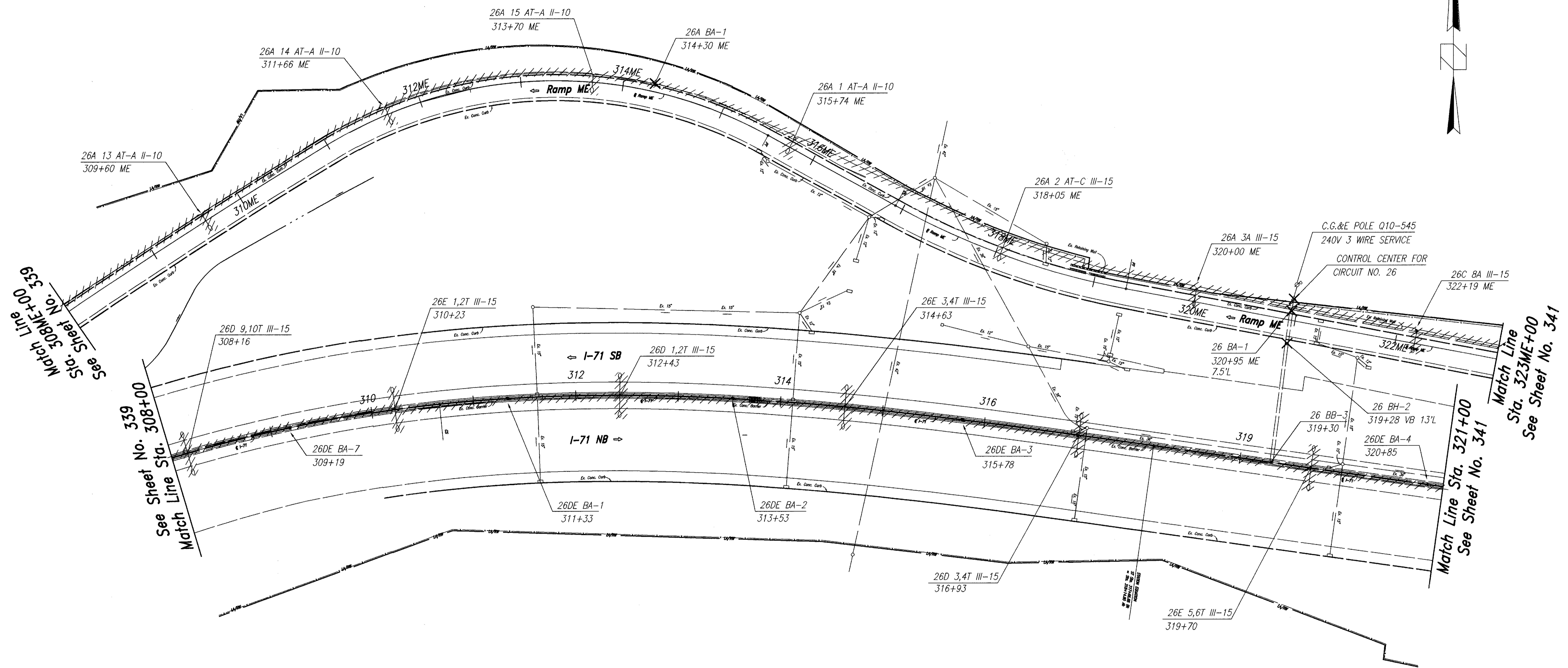
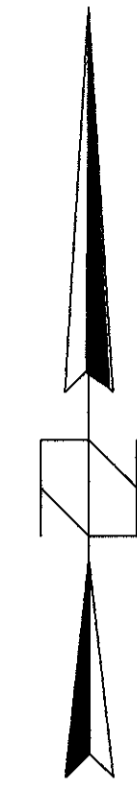
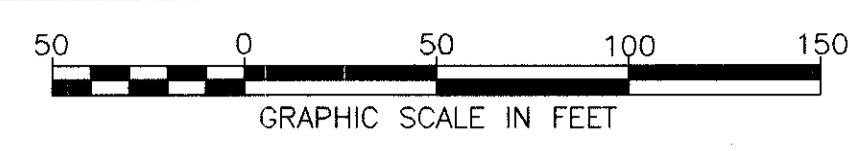
Sta. 294+00 to 308+00

CALC. BY: KRB
DATE: 6/27/95
CHKD. BY: BAP
DATE: 9/15/95

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OHIO
FHWA REGION 5

340
615



DEMOLITION PLAN

Sta. 308+00 to 321+00

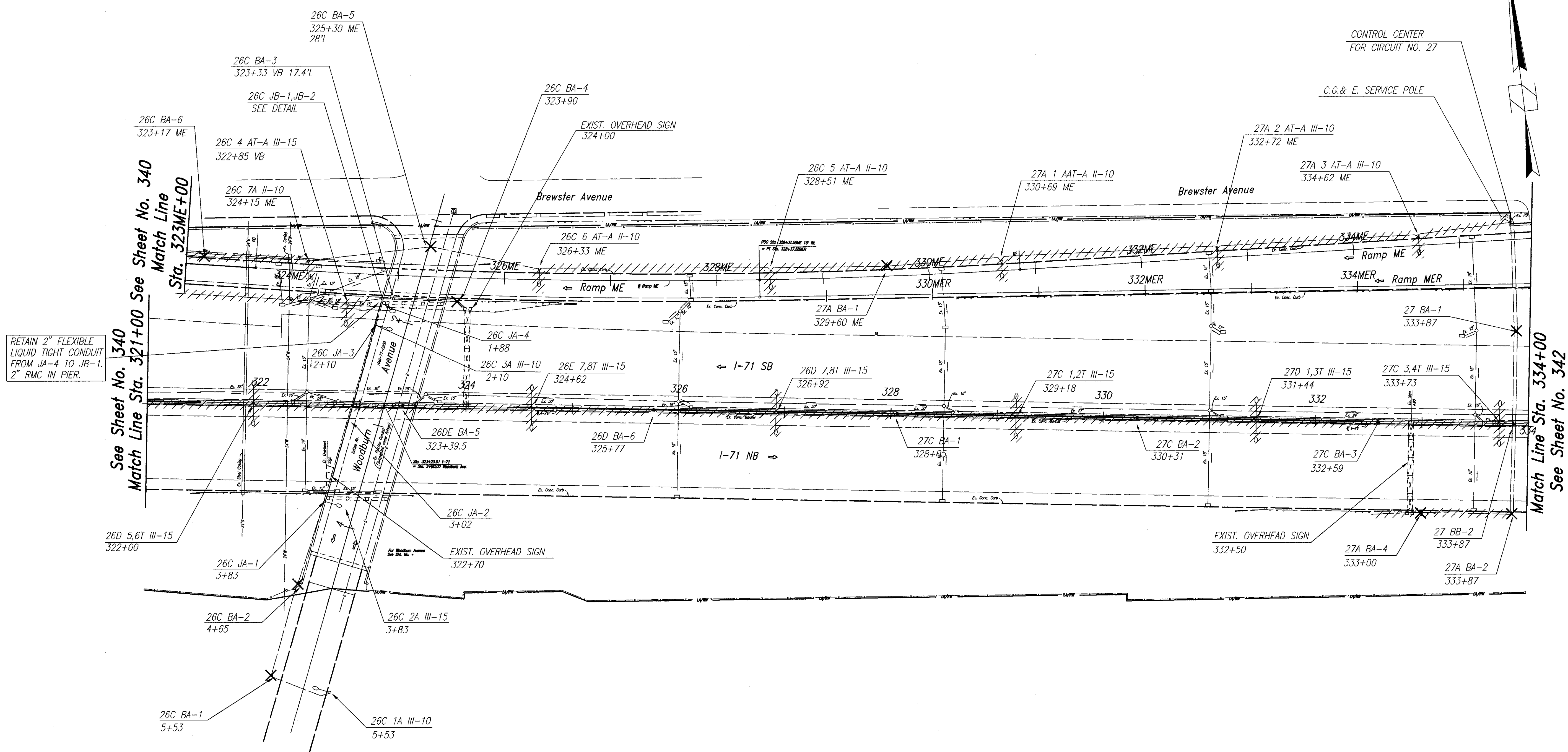
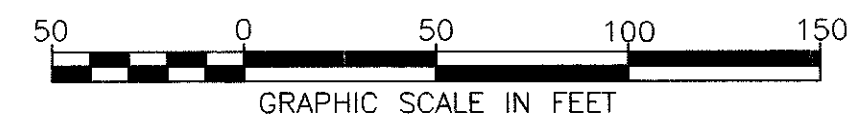
H:\71\2.92\108.dwg - DEC. 13, 1995

CALC. BY *KRB*
DATE *1/5/96*
CHKD. BY *BAP*
DATE *1/8/96*

HAM-71-2.92

OHIO
FHWA REGION 5

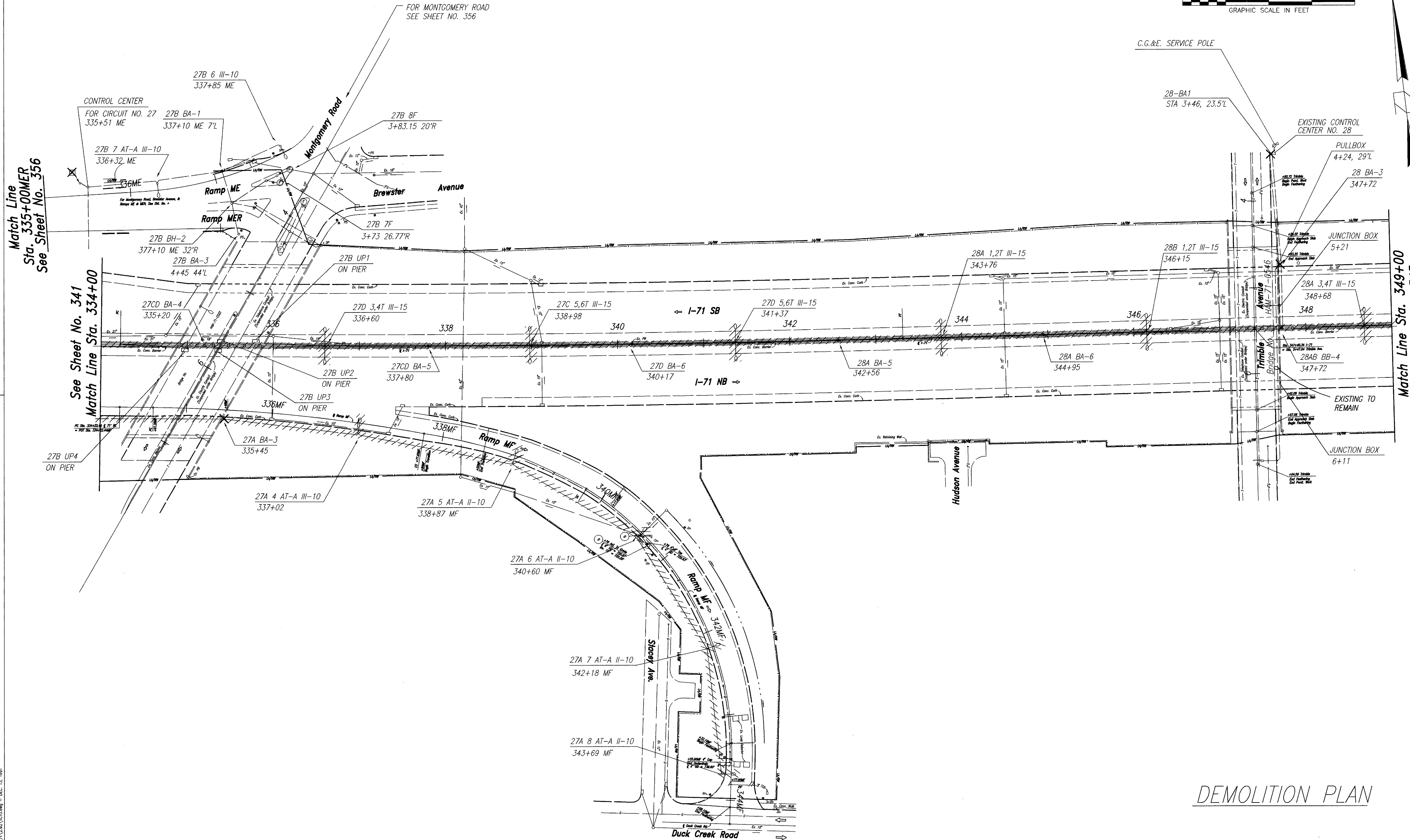
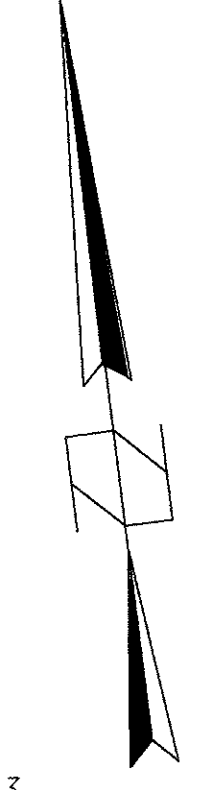
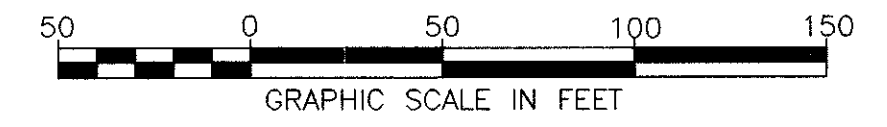
341
615



RETAIN 2" FLEXIBLE LIQUID TIGHT CONDUIT FROM JA-4 TO JB-1. 2" RMC IN PIER.

DEMOLITION PLAN

H:\V\280\T09.dwg - DEC. 16, 1991



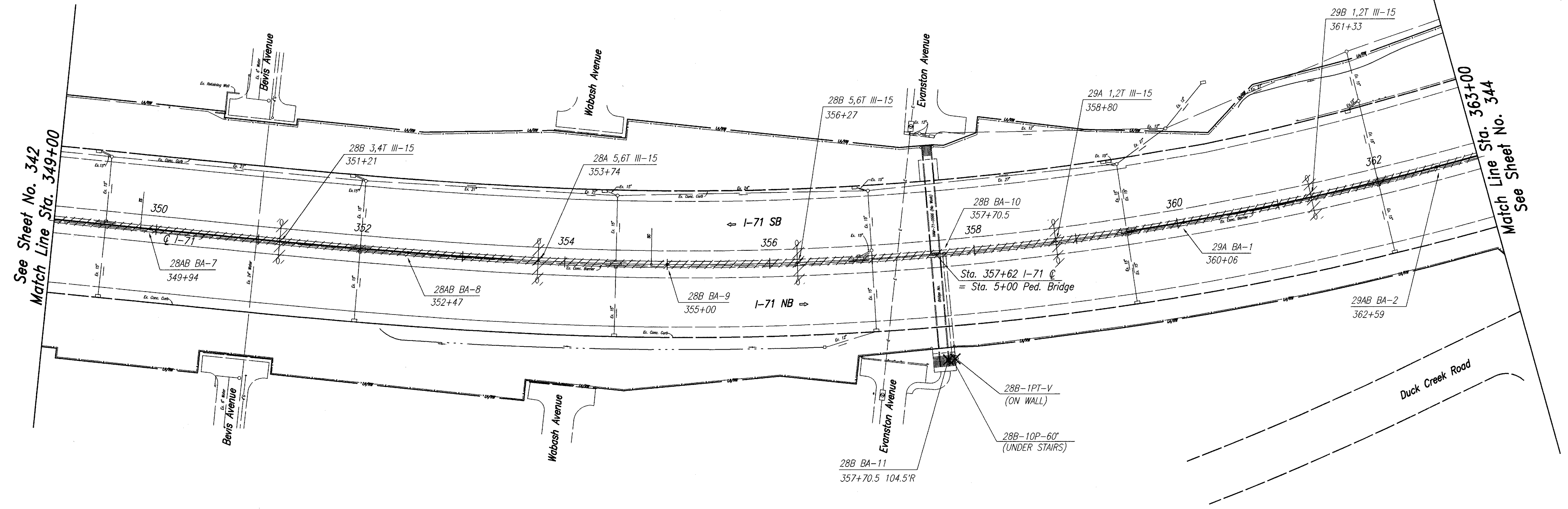
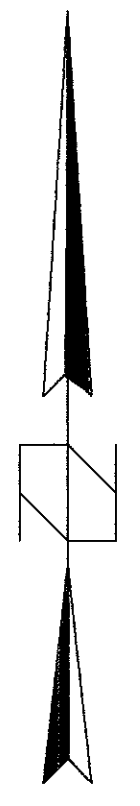
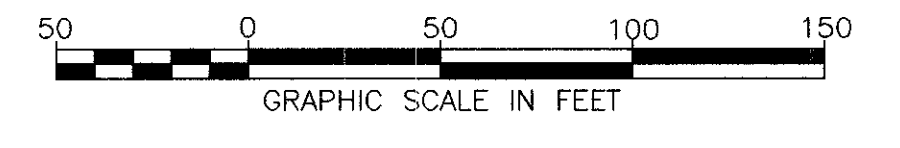
Match Line
 Sta. 335+00MER
 See Sheet No. 356

See Sheet No. 341
 Match Line Sta. 334+00

Match Line Sta. 349+00
 See Sheet No. 343

DEMOLITION PLAN

HNTB & ASSOCIATES, INC. - DEC. 15, 1991

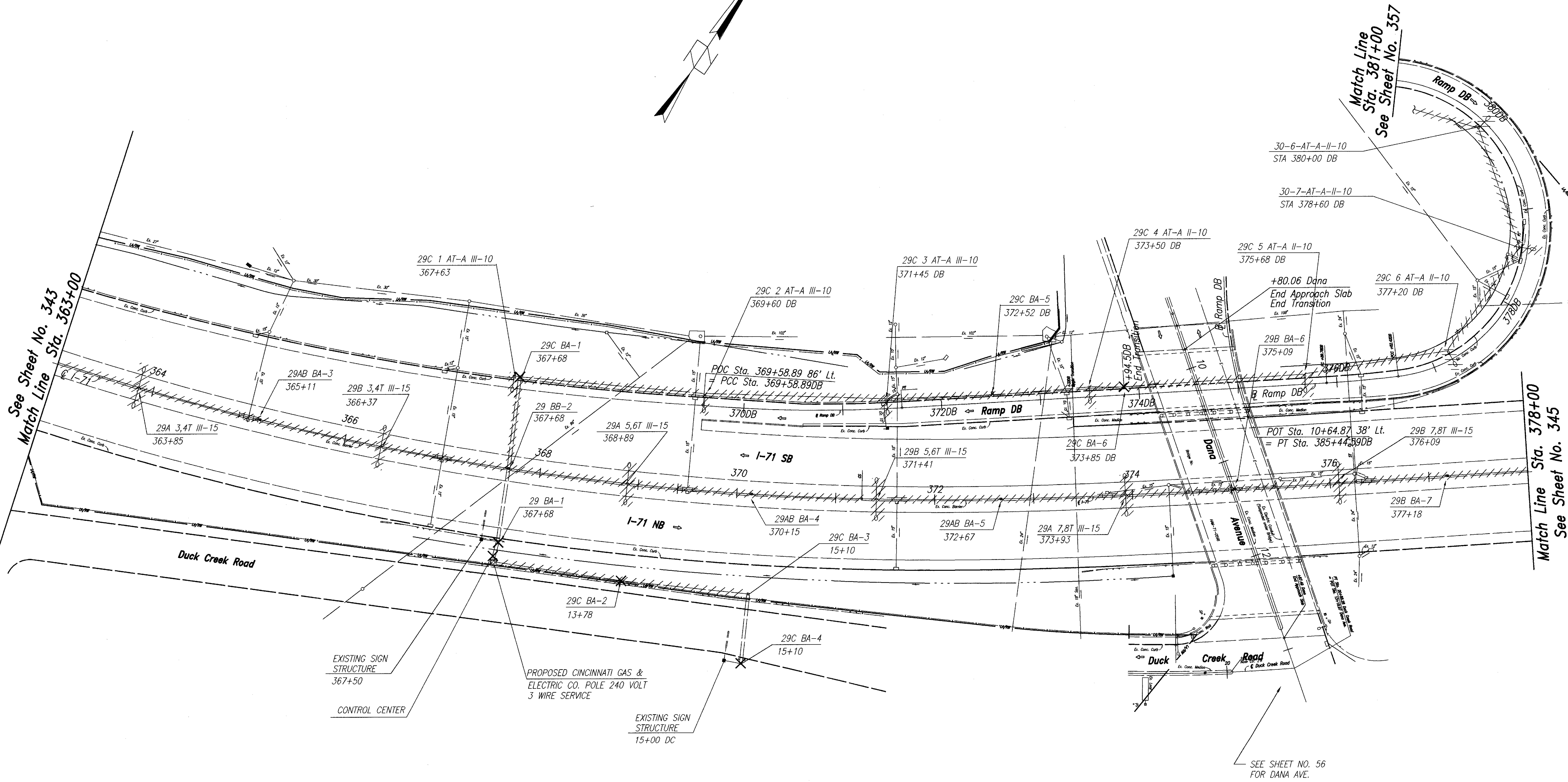
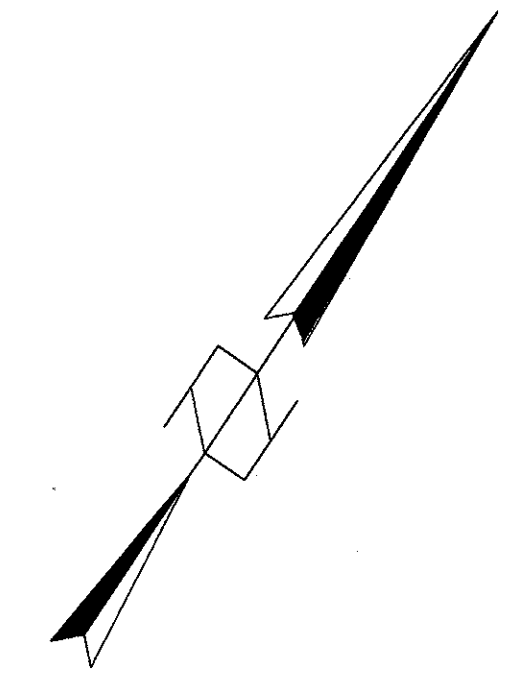
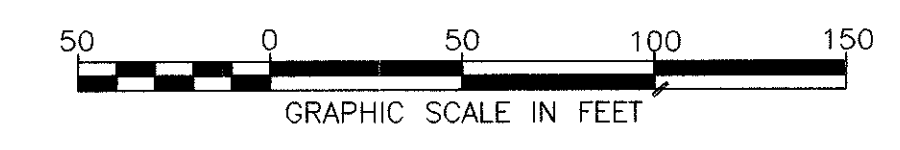


See Sheet No. 342
Match Line Sta. 349+00

Match Line Sta. 363+00
See Sheet No. 344

DEMOLITION PLAN

HA 719.92(11)499 - DEC. 13, 1991



DEMOLITION PLAN

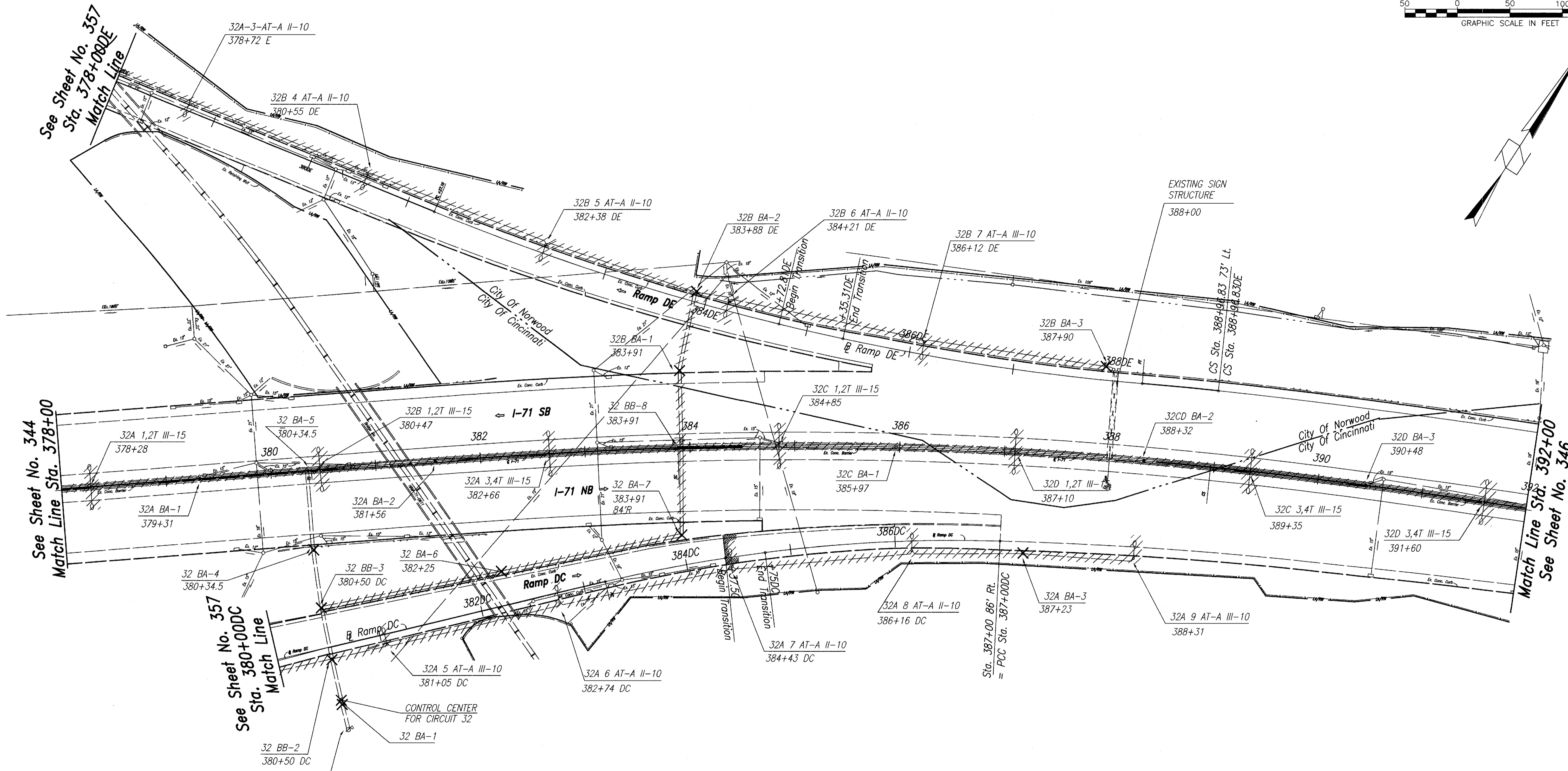
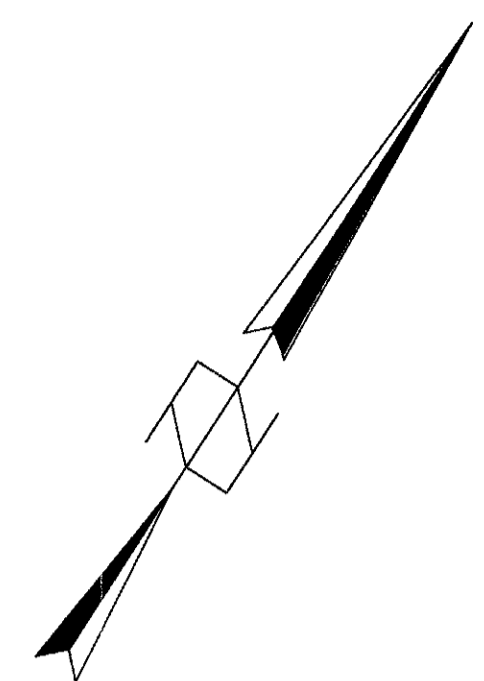
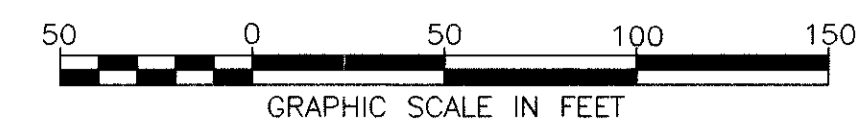
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CALC. BY: KRB
DATE: 4/2/95
CHKD. BY: BAP
DATE: 9/15/95

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OHIO
FHWA REGION 5

345
615



DEMOLITION PLAN

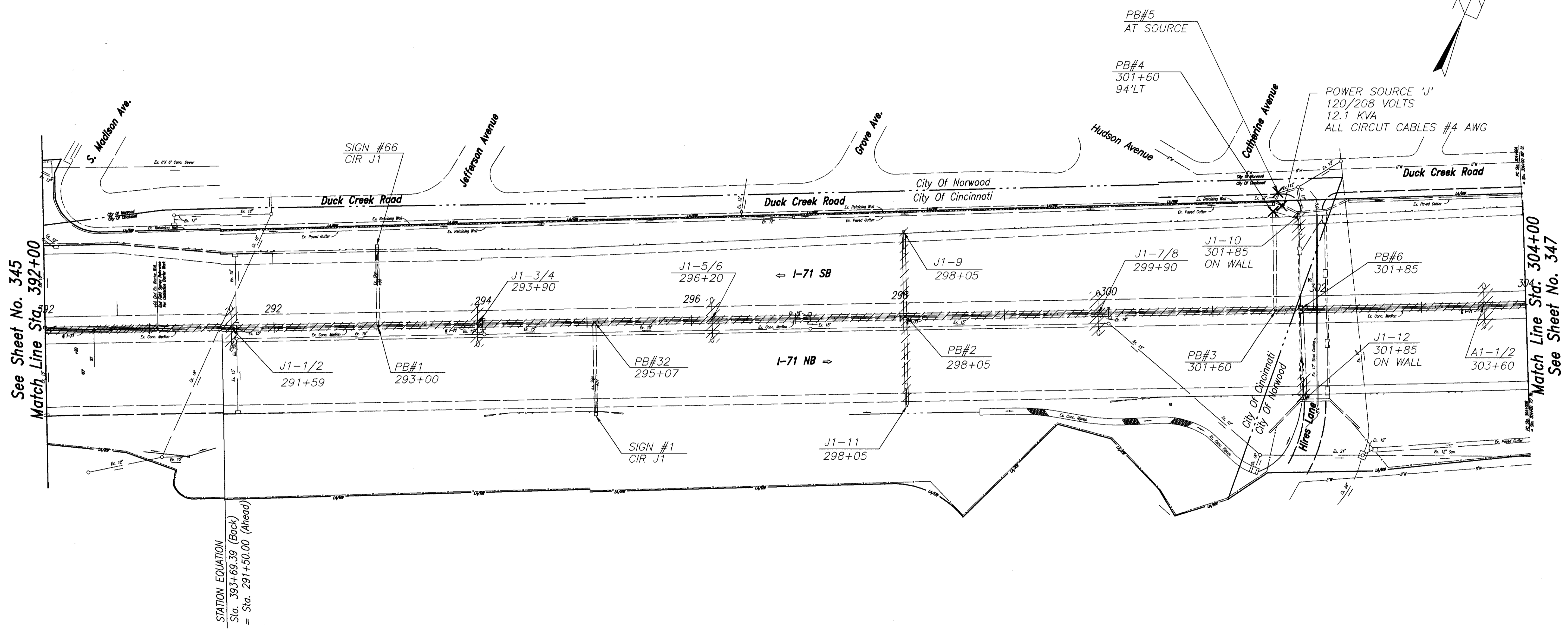
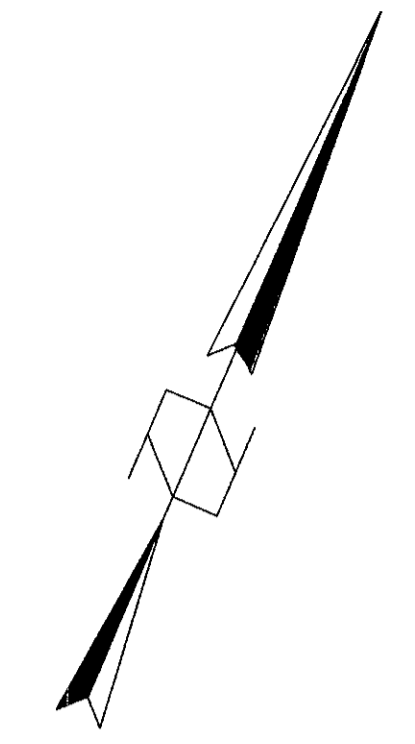
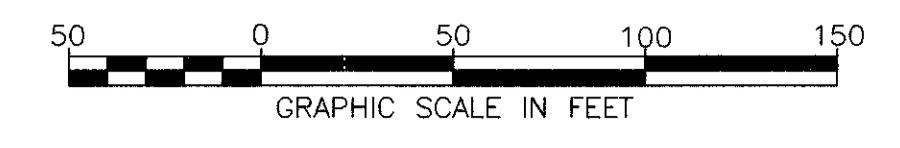
HA 71-2.92(1)13.dwg - DEC. 13, 1991

CALC. BY: KEB
 DATE: 6/27/85
 CHKD. BY: BAP
 DATE: 7/15/85

HAM-71-2.92

OHIO
 FHWA REGION 5

346
 615



See Sheet No. 345
 Match Line Sta. 392+00

Match Line Sta. 304+00
 See Sheet No. 347

STATION EQUATION
 Sta. 393+69.39 (Back)
 = Sta. 291+50.00 (Ahead)

DEMOLITION PLAN

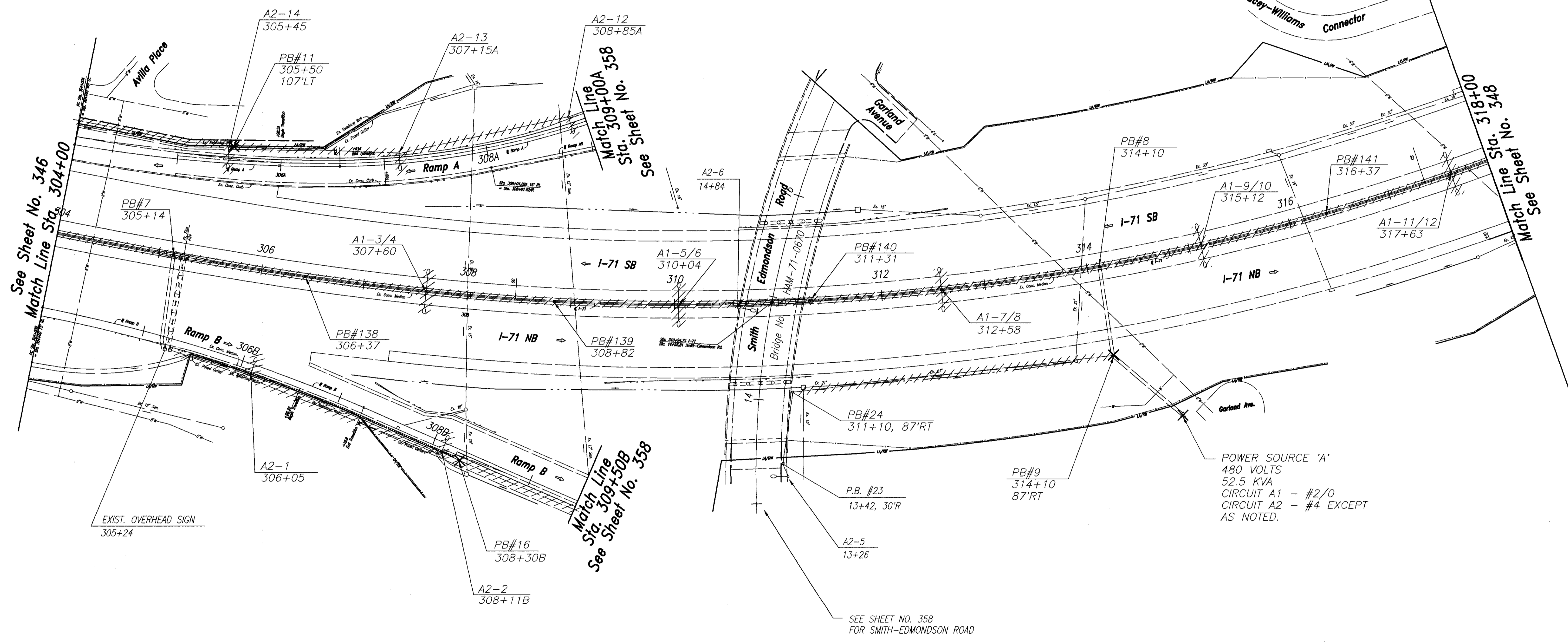
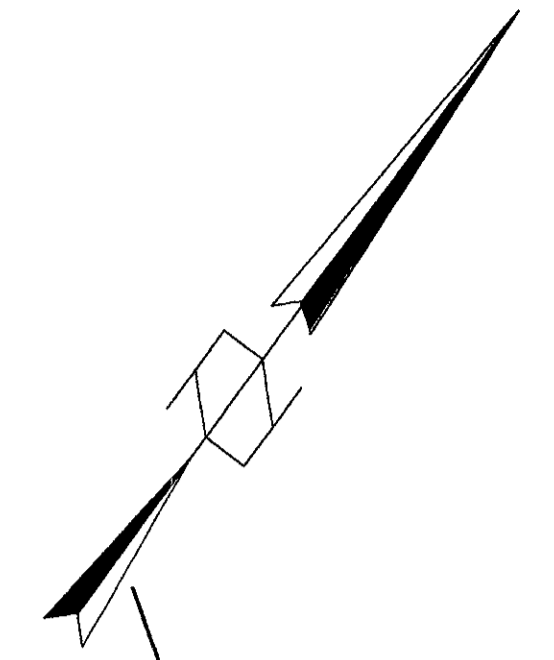
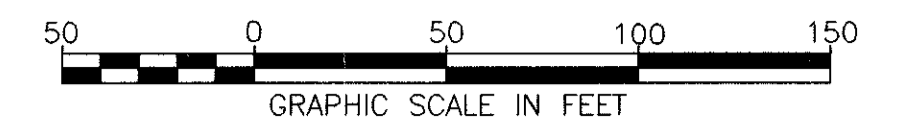
H:\V1\292\1074.dwg - DEC. 13, 1991

CALC. BY: KPB
DATE: 6/27/95
CHKD. BY: BAP
DATE: 9/15/95

HAM-71-2.92

OHIO
FHWA
REGION 5

347
615



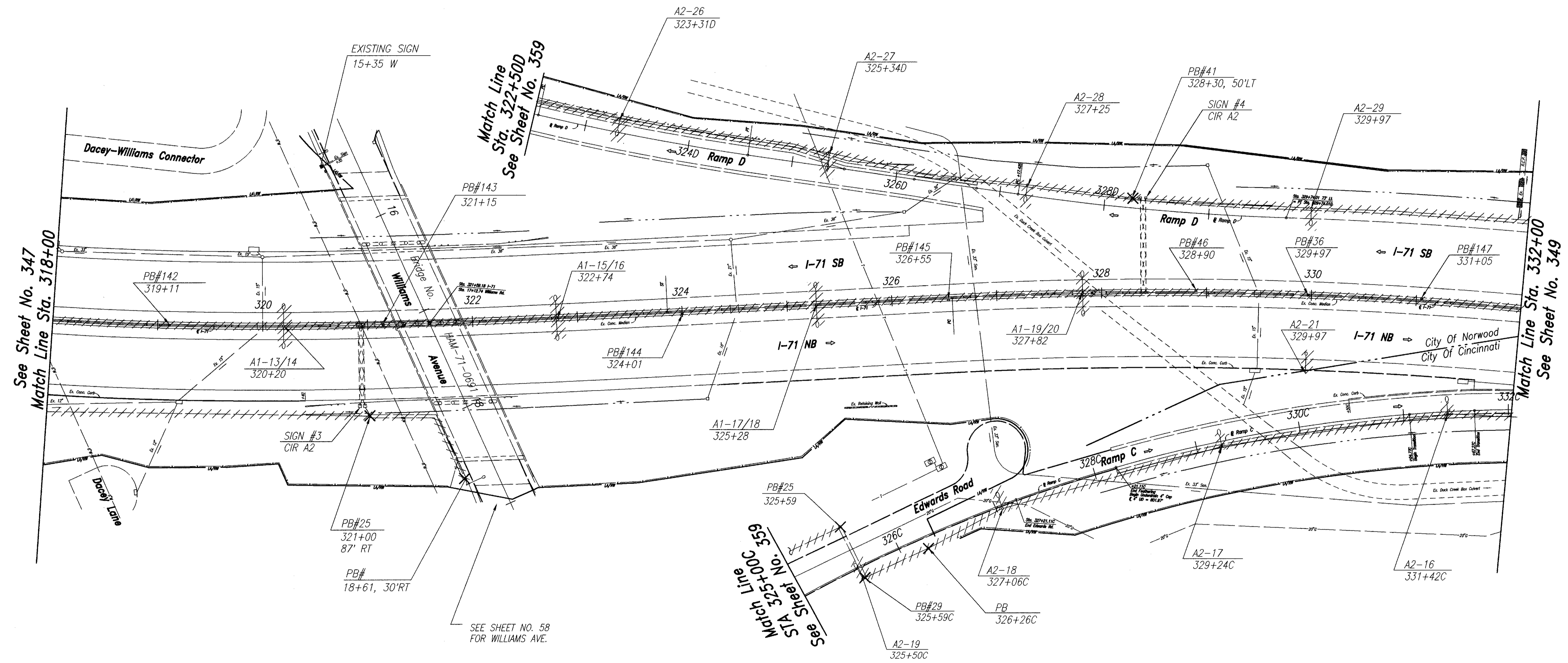
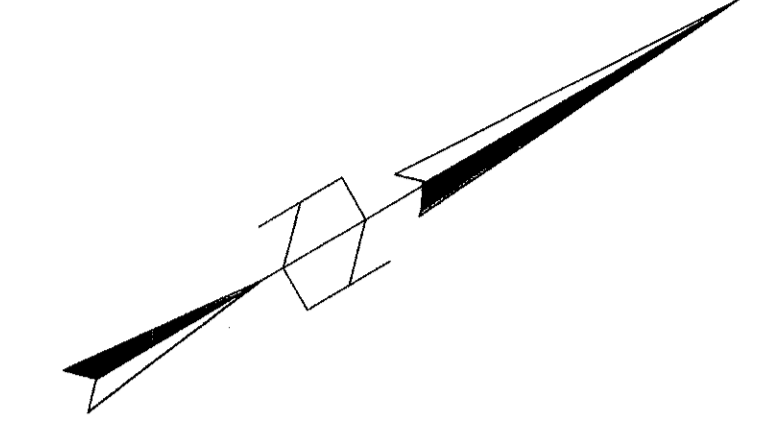
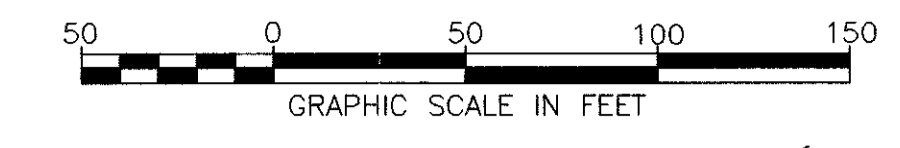
DEMOLITION PLAN

PL 712.02/1015.dwg - REC. 15, 1991

CALC. BY: KRB
DATE: 1/5/96
CHKD BY: BAP
DATE: 1/8/96

HAM-71-2.92

OHIO
FHWA REGION 5
348
615



DEMOLITION PLAN

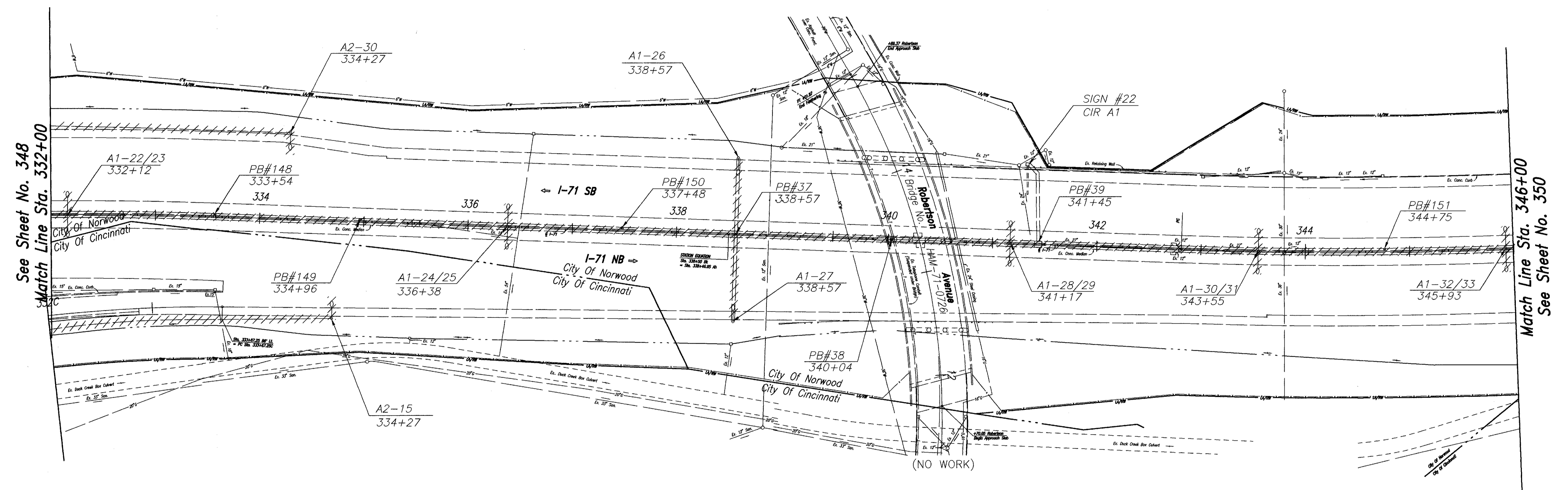
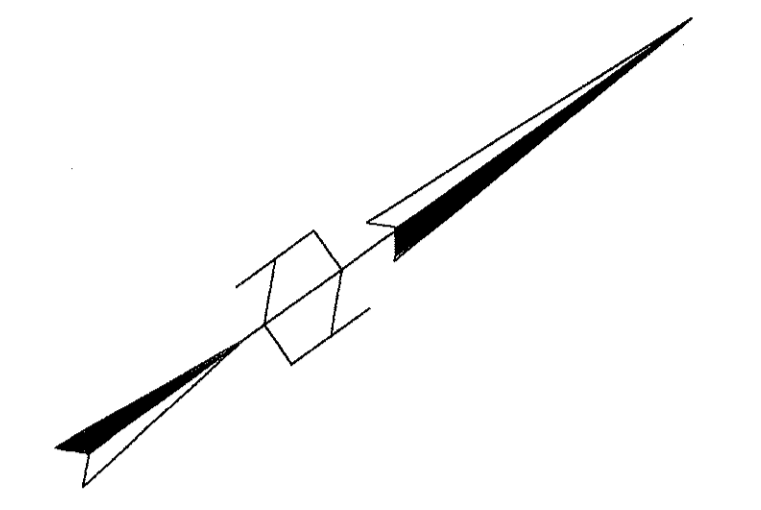
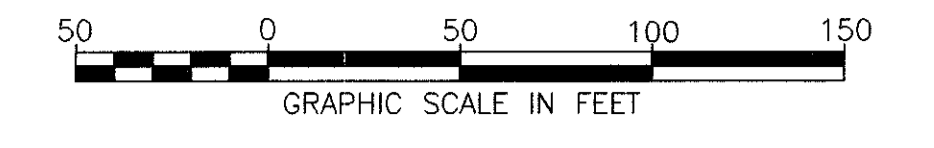
H:\V1\240\1216.dwg - DEC. 13, 1991

CALC. BY KRB
DATE 6/27/95
CHKD. BY BAC
DATE 9/15/95

HAM-71-2.92

OHIO
FHWA REGION 5

349
615



See Sheet No. 348
Match Line Sta. 332+00

Match Line Sta. 346+00
See Sheet No. 350

DEMOLITION PLAN

Sta. 332+00 to 346+00

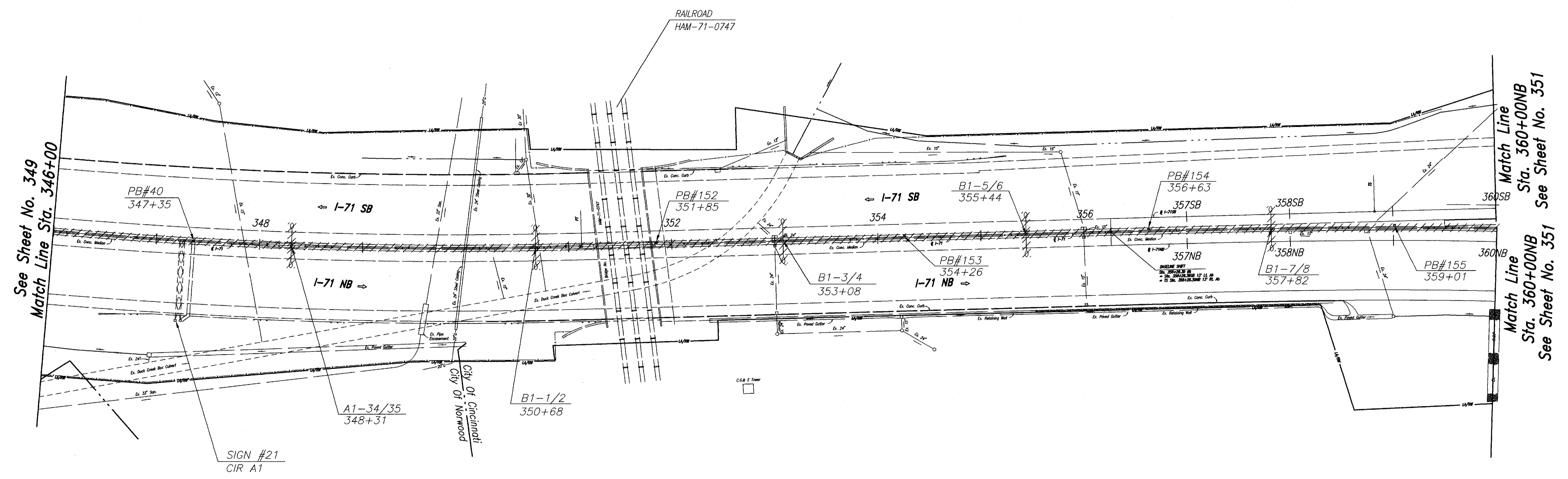
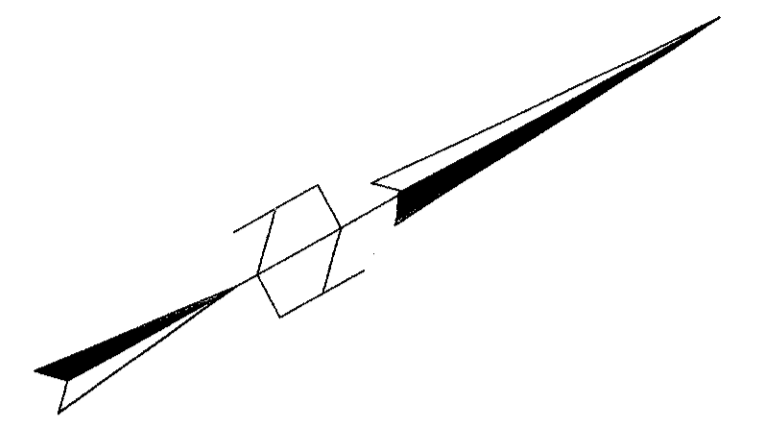
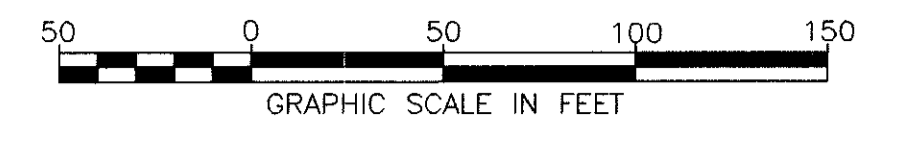
H:\V1\5.92\T017.dwg - DEC. 16, 1991

CALC. BY: *KRB*
DATE: *6/27/95*
CHKD. BY: *BAP*
DATE: *9/15/95*

HAM-71-2.92

OHIO
FHWA
REGION 5

350
615



DEMOLITION PLAN

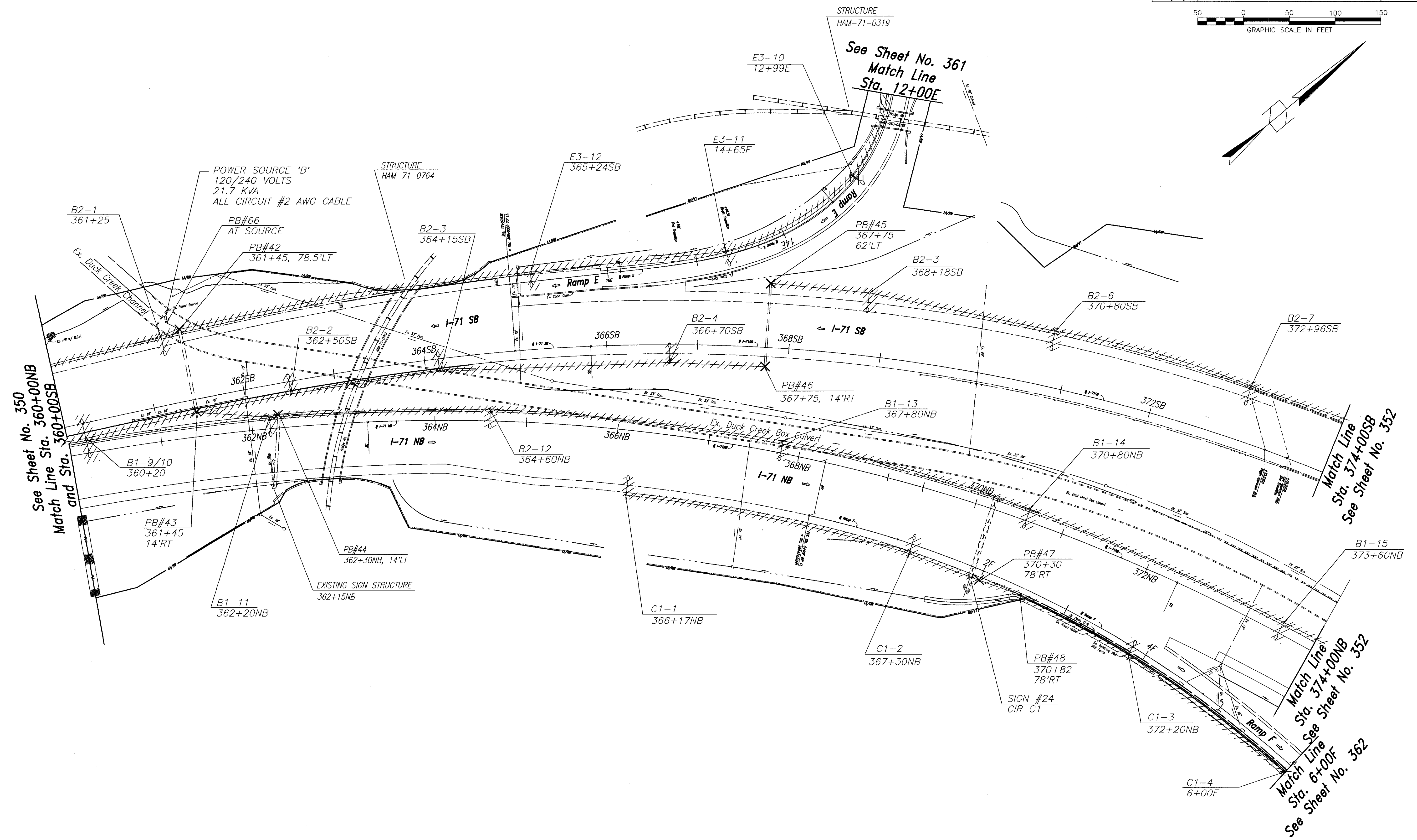
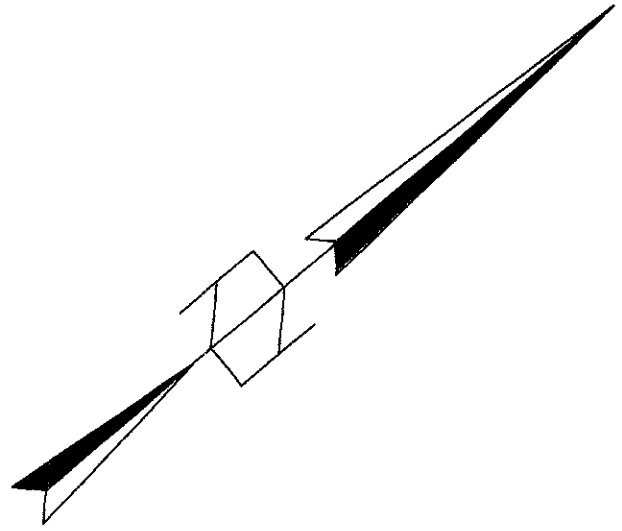
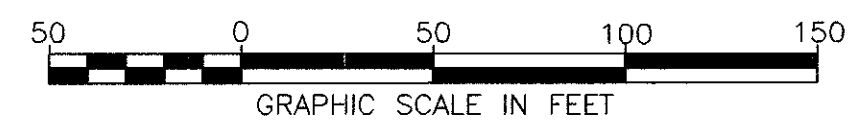
Sta. 346+00 TO 360+00NB

CALC. BY: KRB
DATE: 6/27/93
CHKD. BY: BAP
DATE: 9/15/93

HAM-71-2.92

OHIO
FHWA REGION 5

351
615



See Sheet No. 350
Match Line Sta. 360+00NB
and Sta. 360+00SB

See Sheet No. 361
Match Line
Sta. 12+00E

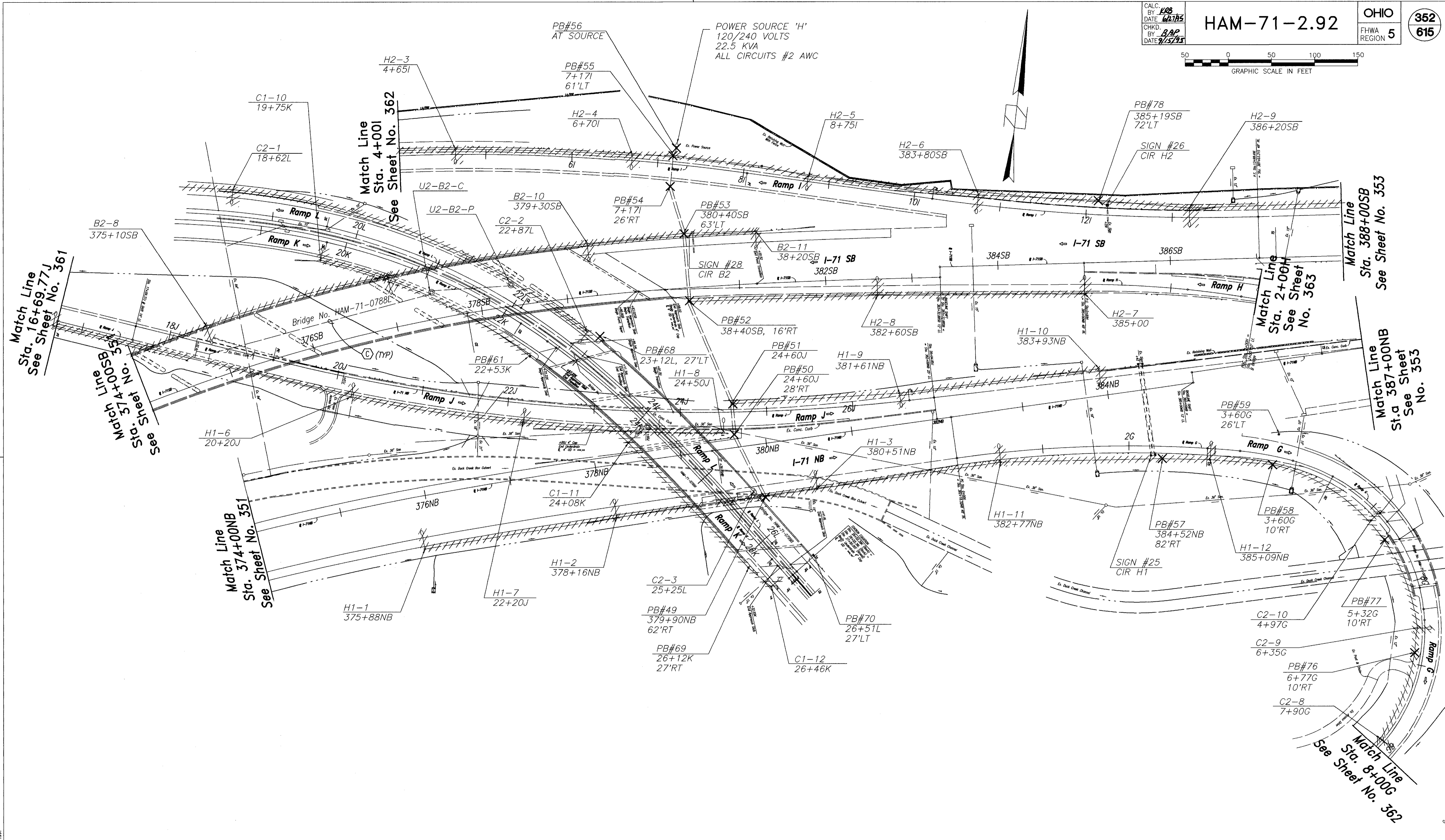
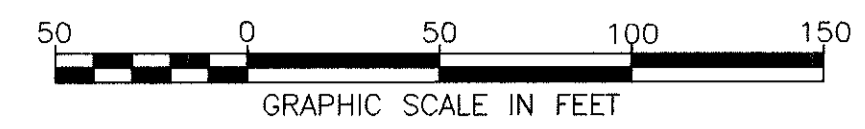
Match Line
Sta. 374+00SB
See Sheet No. 352

Match Line
Sta. 374+00NB
See Sheet No. 352
Match Line
Sta. 6+00F
See Sheet No. 362

DEMOLITION PLAN

Sta. 360+00NB to Sta. 374+00

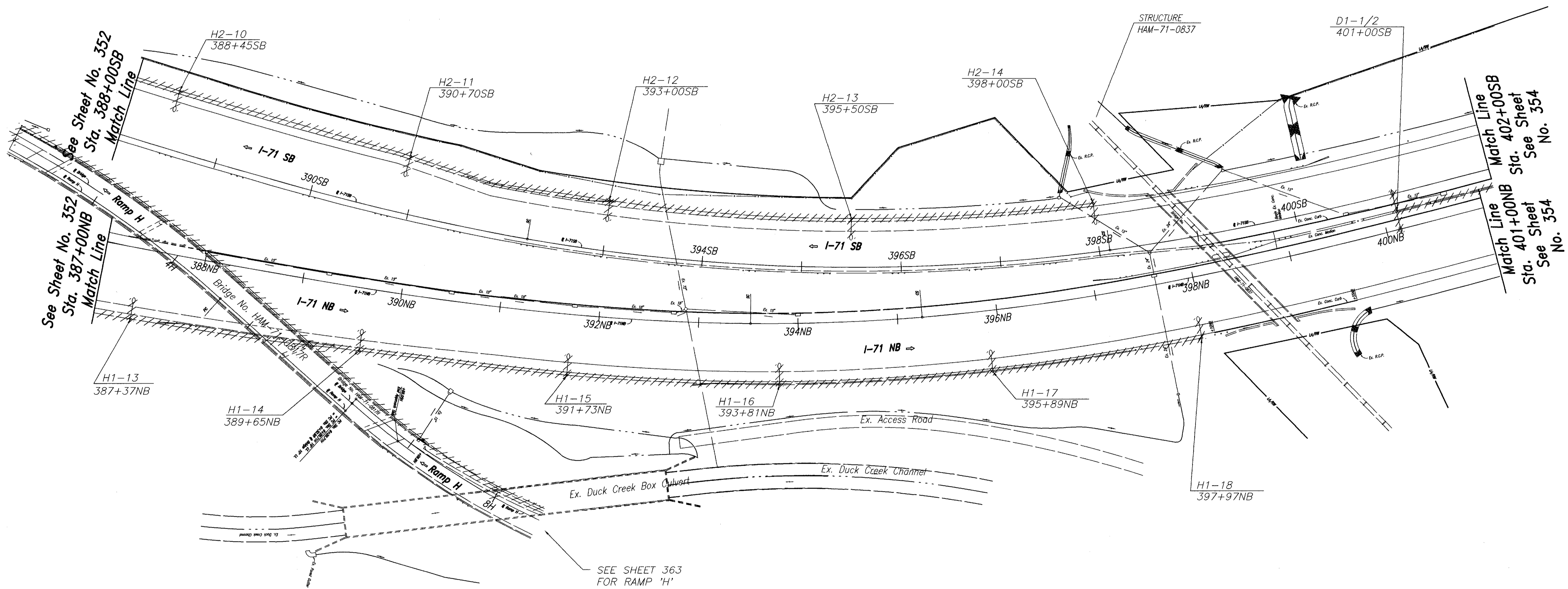
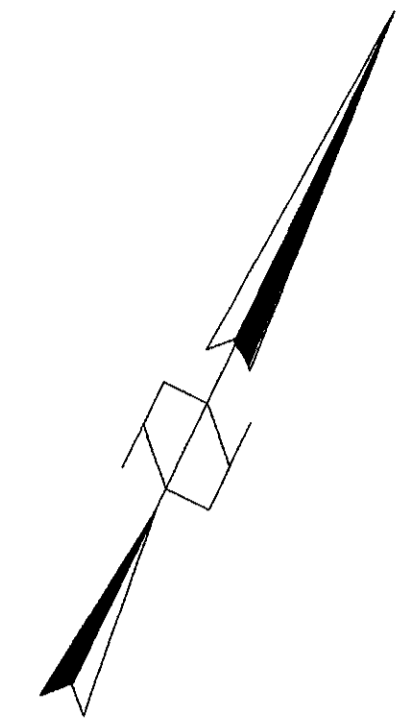
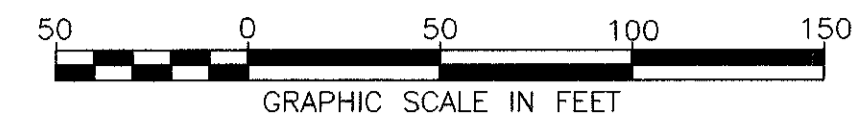
H:\V1\292\T019.dwg - DEC. 18, 1991



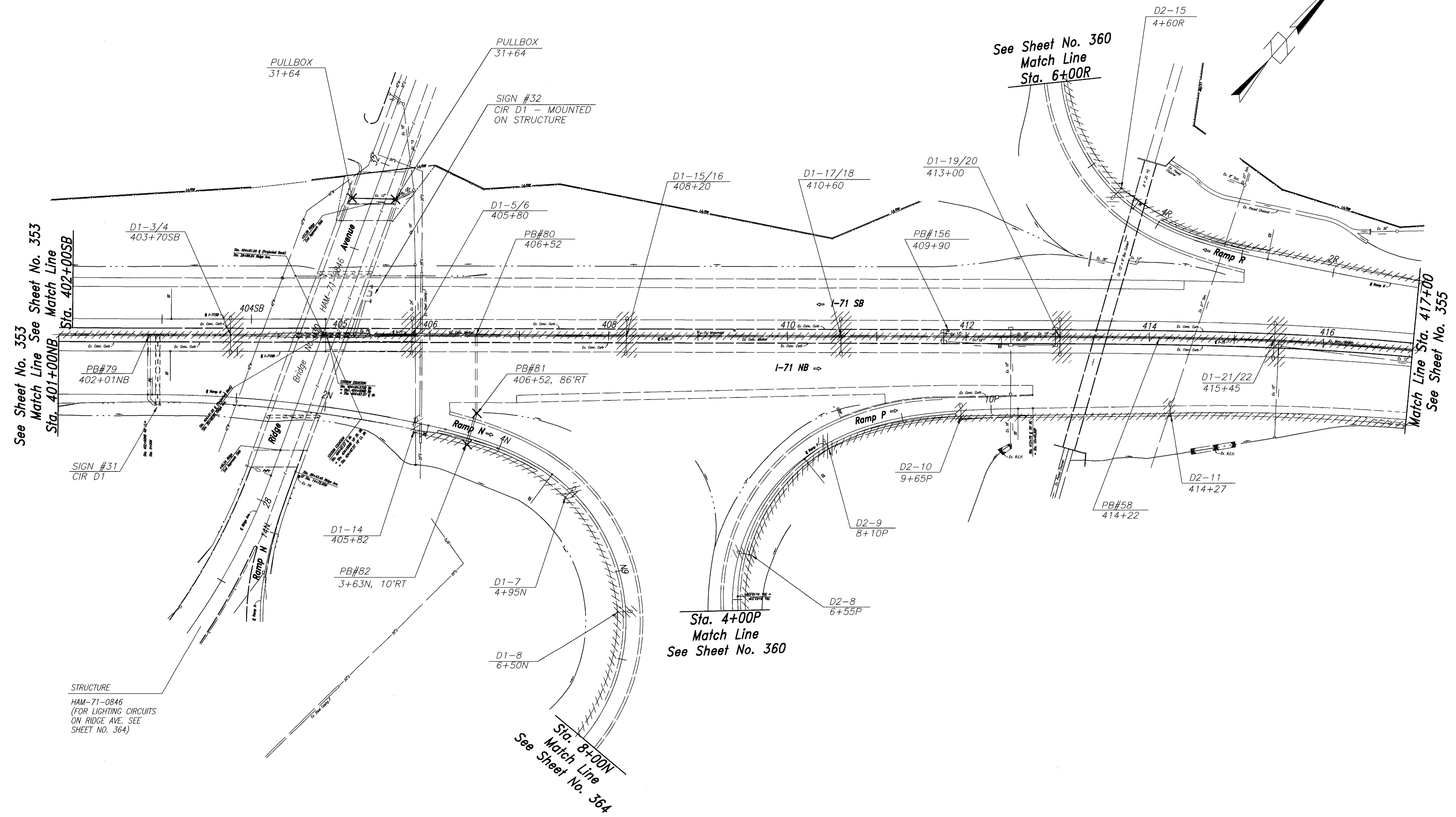
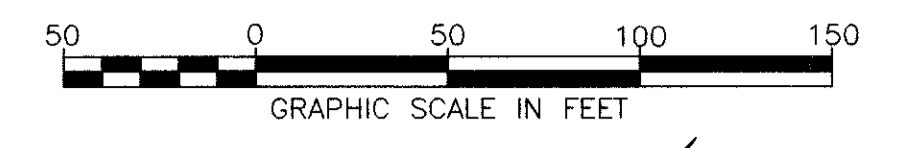
DEMOLITION PLAN

H:\71\95\Y20.dwg - DEC. 15, 1991

HAM-71-2.92



DEMOLITION PLAN

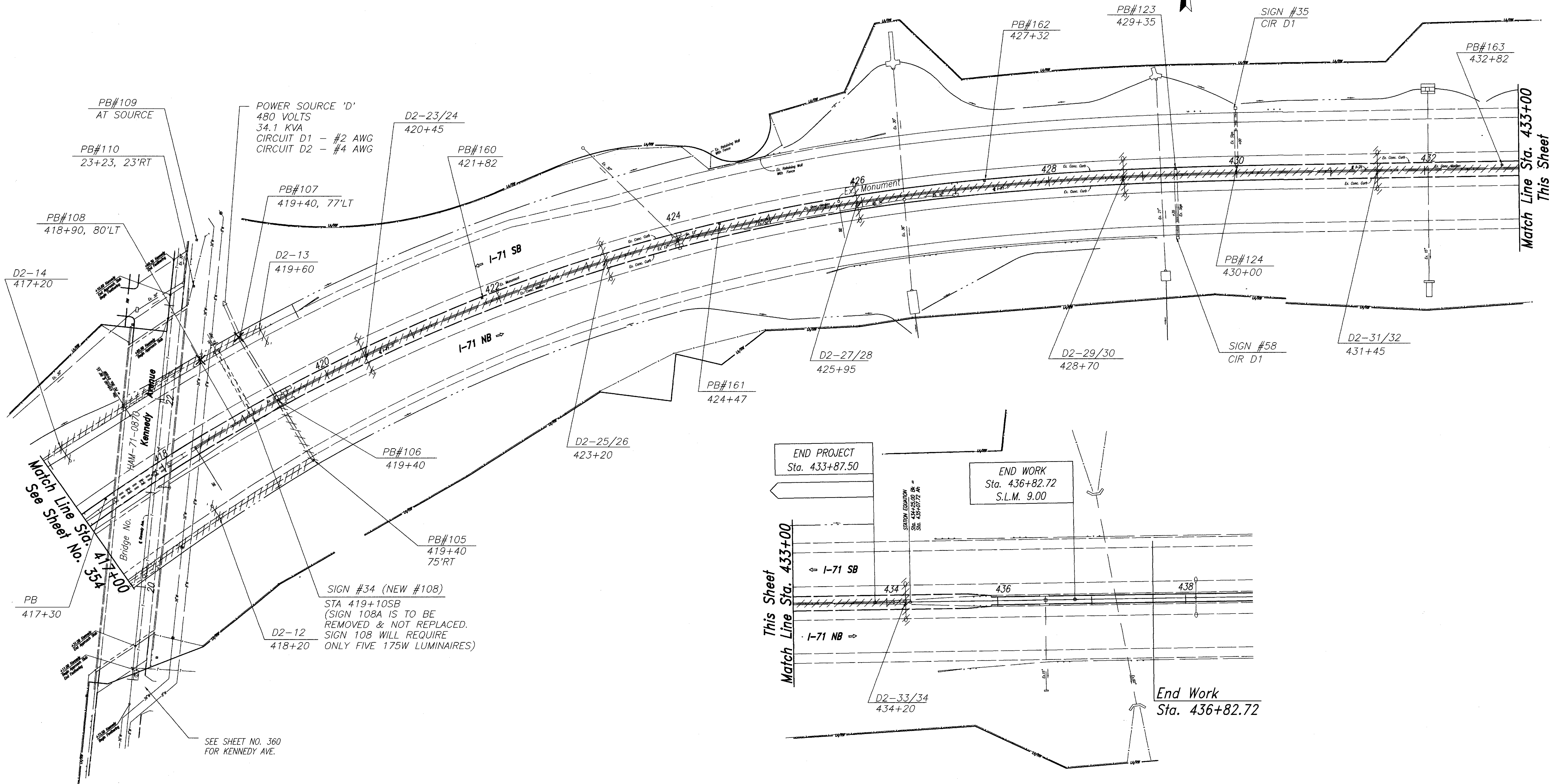
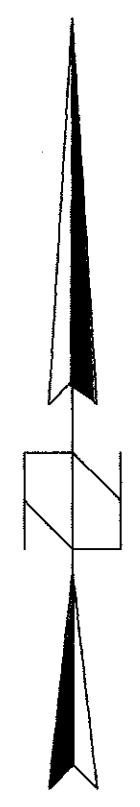
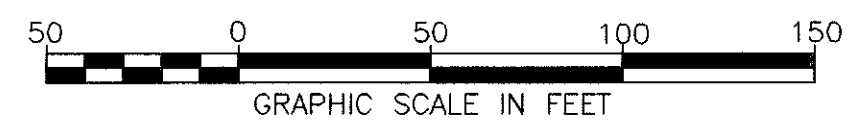


H:\V\02\02\T222.dwg - DEC 26, 1991

CALC. BY: *KEB*
 DATE: *6/27/95*
 CHKD BY: *BAP*
 DATE: *7/15/95*

HAM-71-2.92

OHIO
 FHWA REGION 5
 355
 615



SEE SHEET NO. 360 FOR KENNEDY AVE.

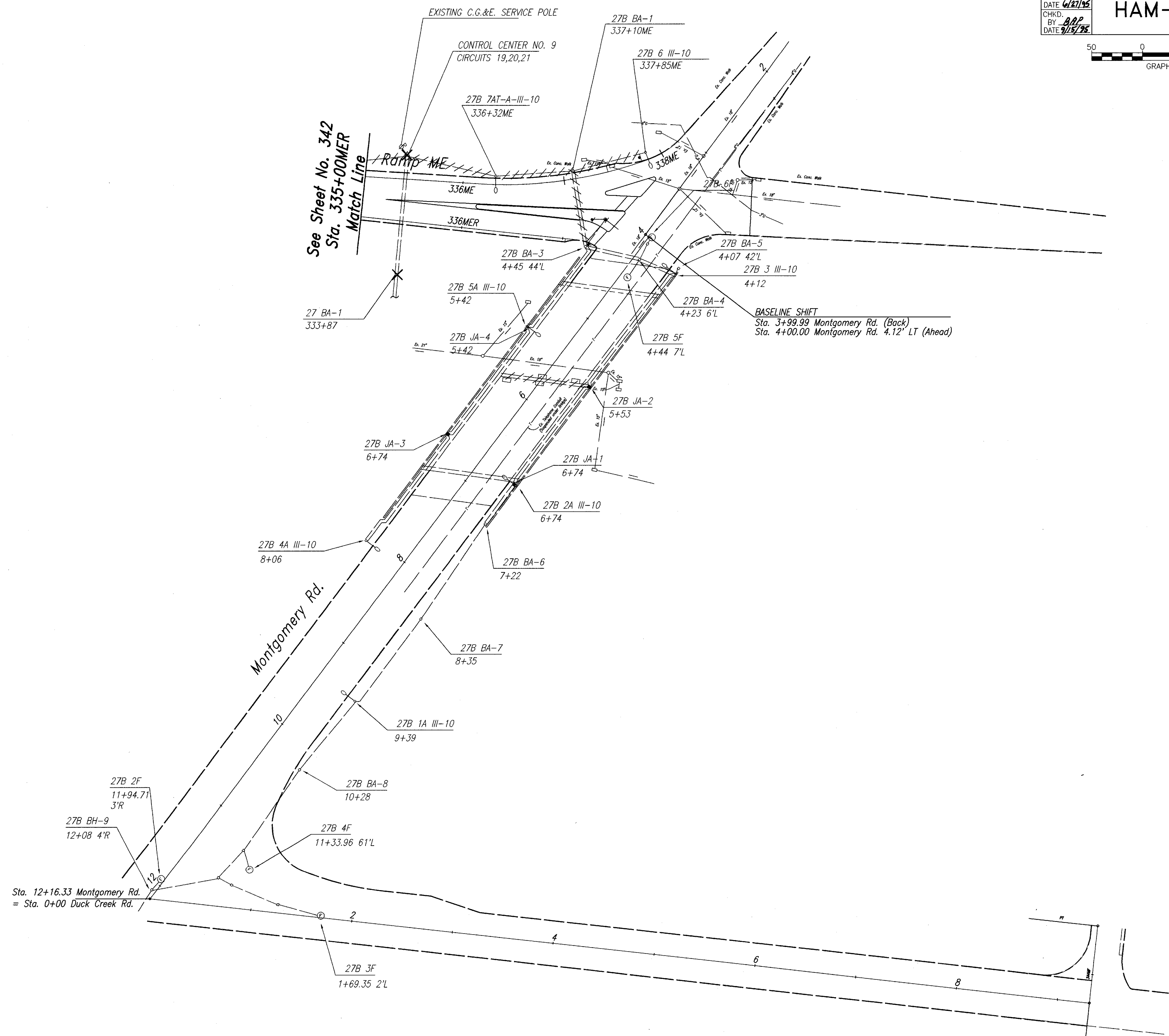
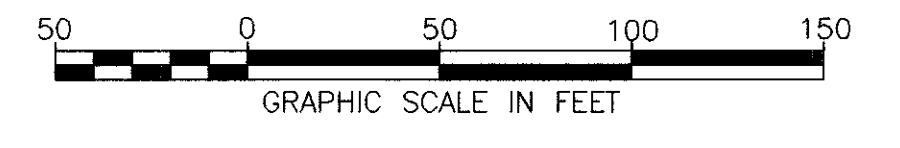
H:\71\2.92\1023.dwg - DEC. 26, 1991

CALC. BY: **KRB**
 DATE: **6/27/92**
 CHKD. BY: **BAP**
 DATE: **9/15/92**

HAM-71-2.92

OHIO
 FHWA REGION **5**

356
615



H:\71\92\MONT.dwg - OCT. 26, 1991

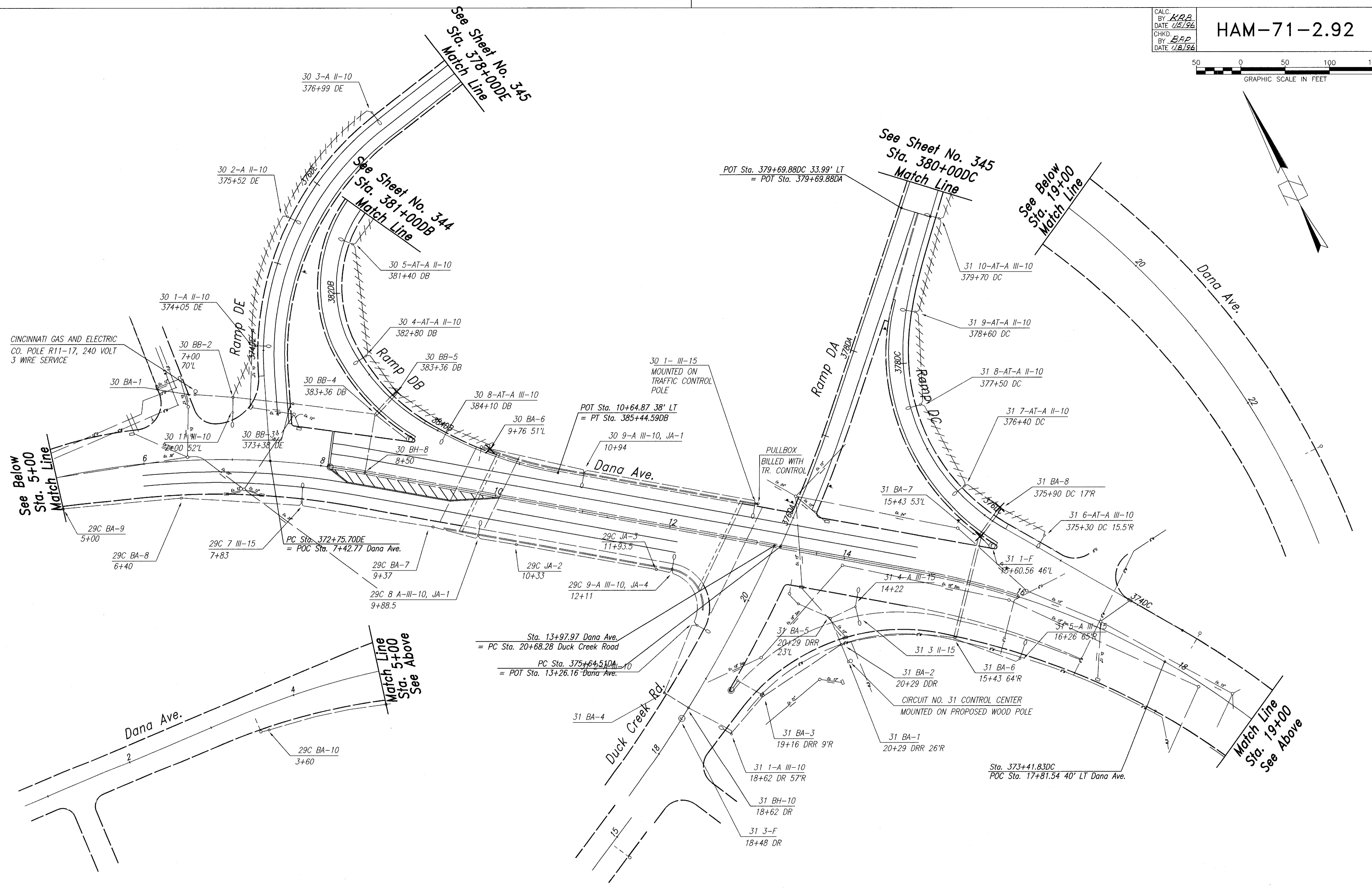
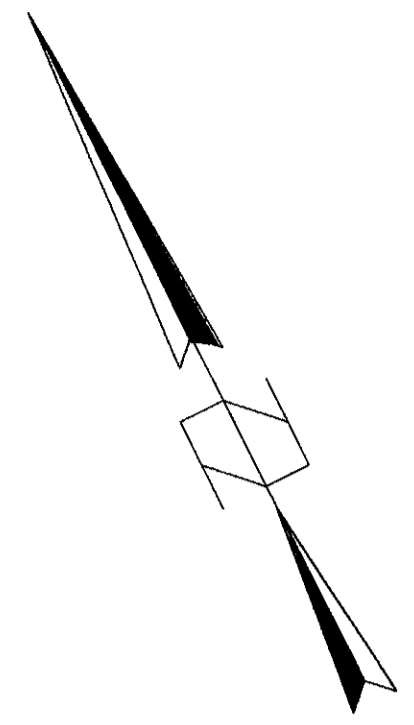
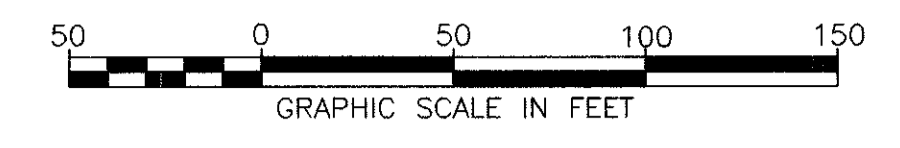
Montgomery Rd.

CALC. BY: KRB
 DATE: 1/6/86
 CHKD. BY: BAP
 DATE: 1/8/86

HAM-71-2.92

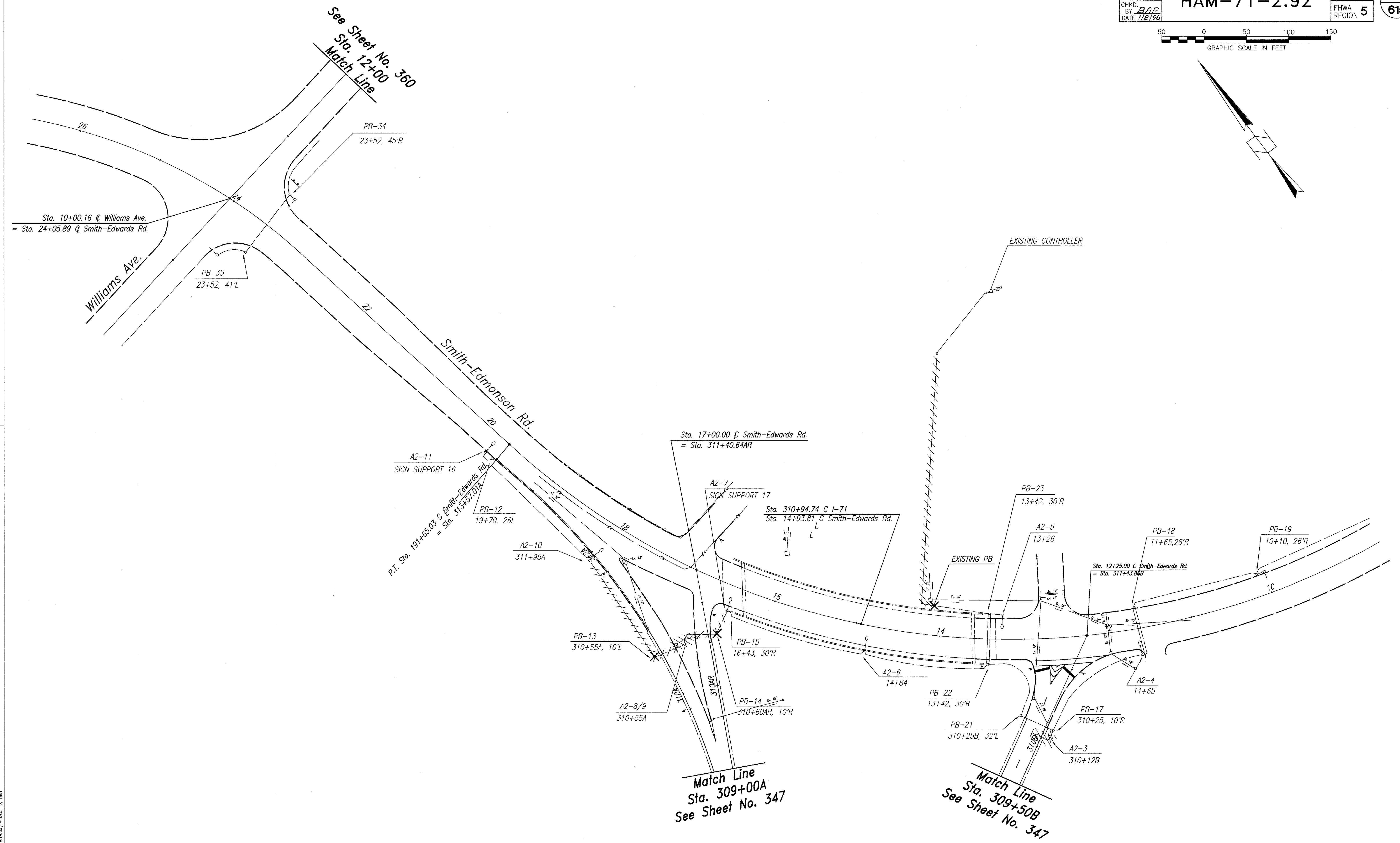
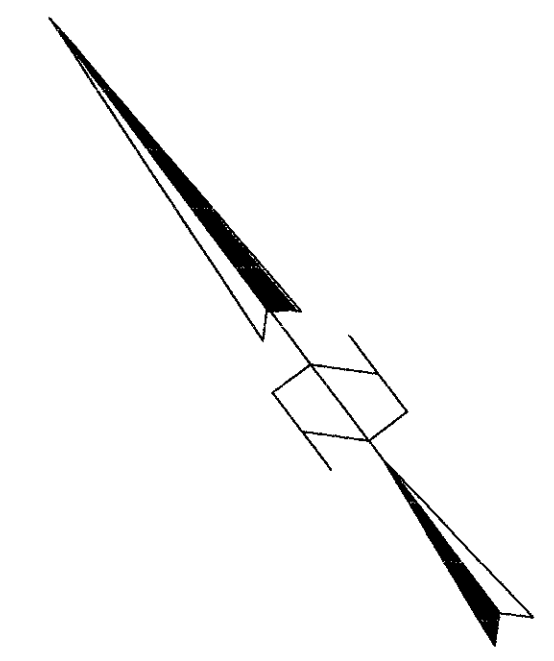
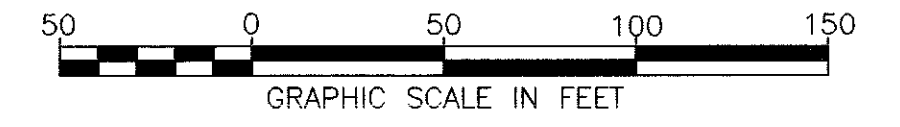
OHIO
 FHWA REGION 5

357
 615



H:\V\12\95\DATA\eng - BOC 16, 1991

Dana Ave.



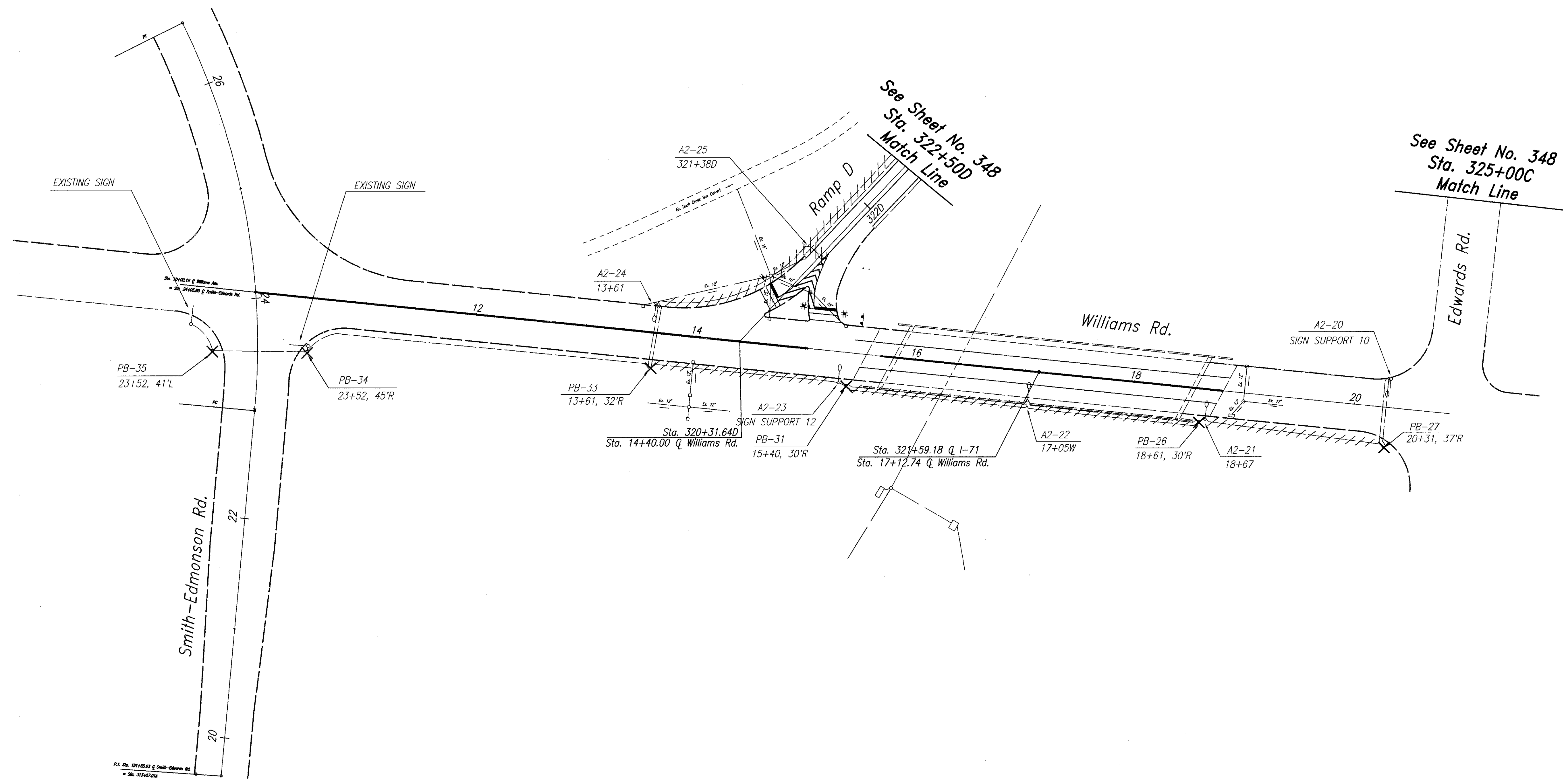
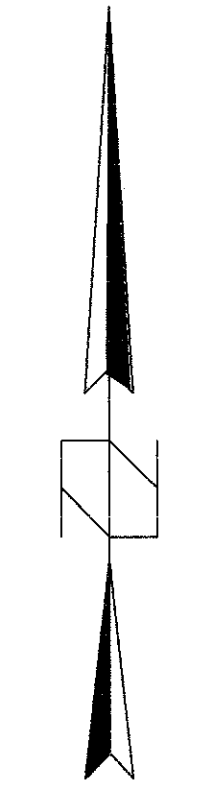
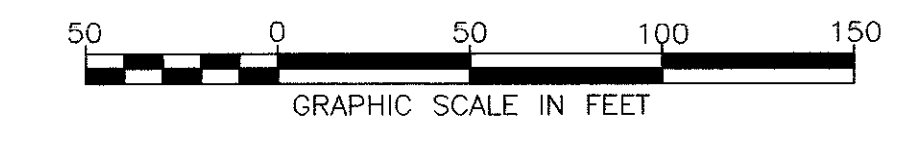
H:\2112\2112\2112.dwg - DEC 17, 1991

CALC.
BY: *KRB*
DATE: *1/5/96*
CHKD.
BY: *BAP*
DATE: *1/8/96*

HAM-71-2.92

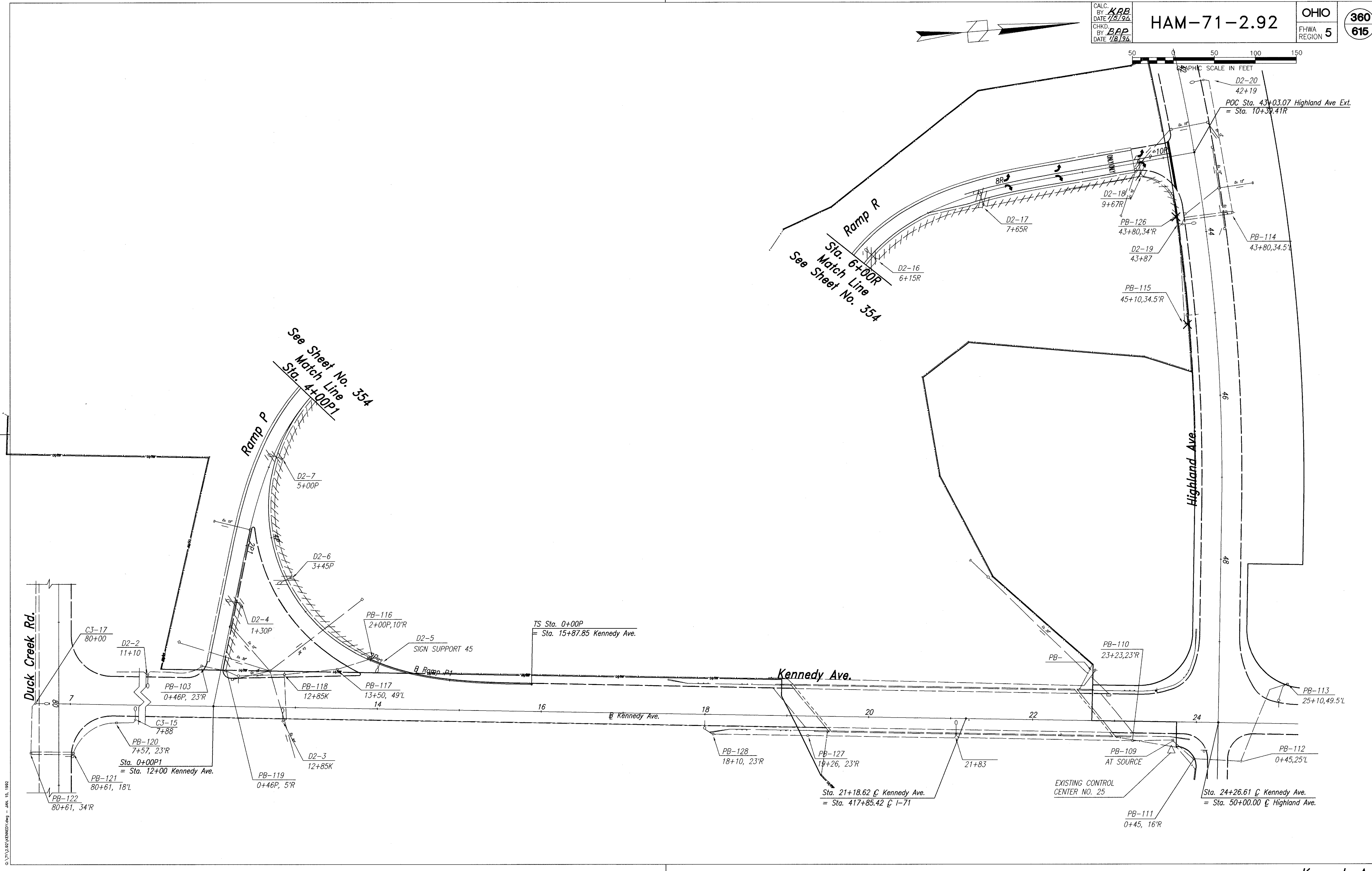
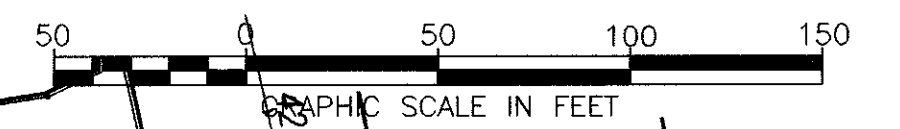
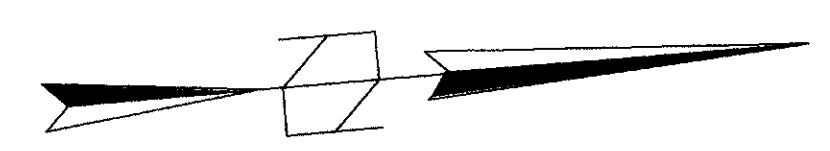
OHIO
FHWA
REGION 5

359
615



H:\V1\2-92\WILLIAM.dwg - DEC 13, 1991

Williams Ave.



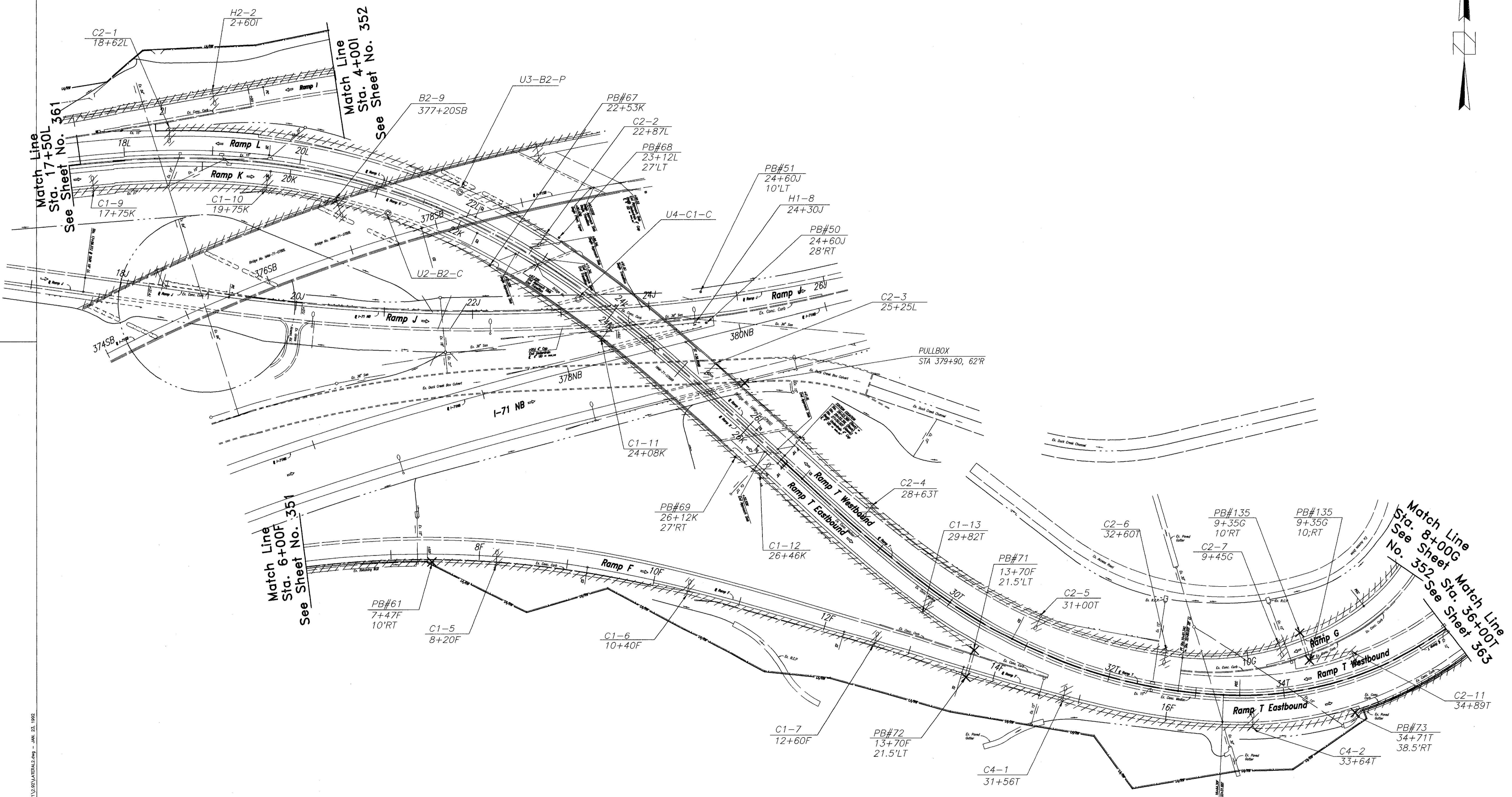
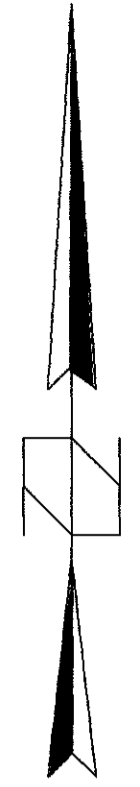
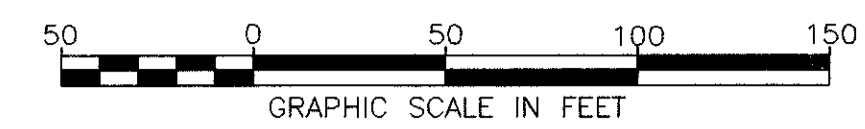
G:\V\1996\KENNEDY.dwg - JAN. 15, 1992

CALC. BY: *WLB*
DATE: *6/15/95*
CHKD. BY: *BAP*
DATE: *9/15/95*

HAM-71-2.92

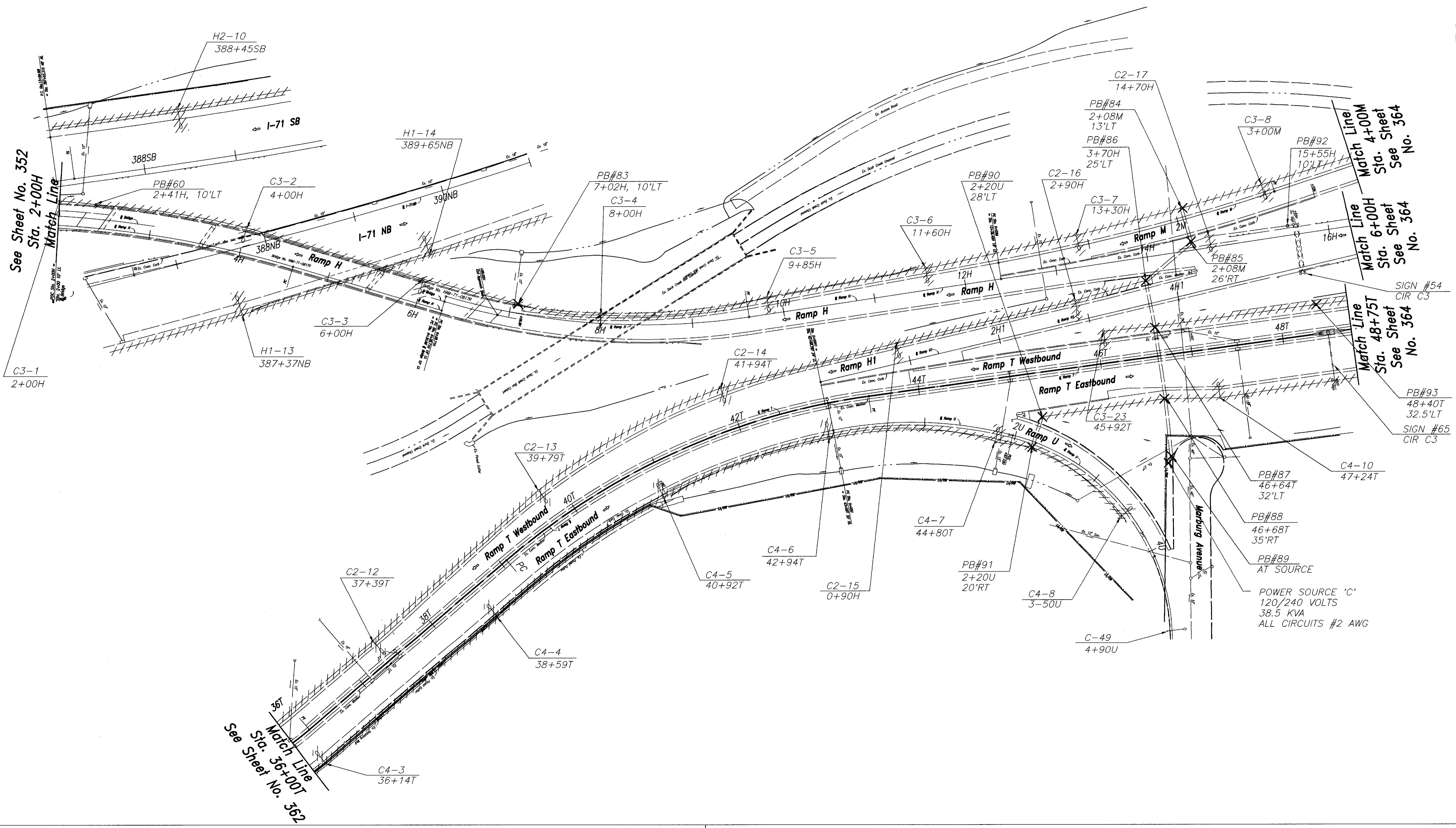
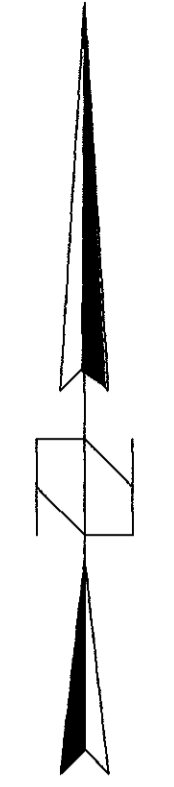
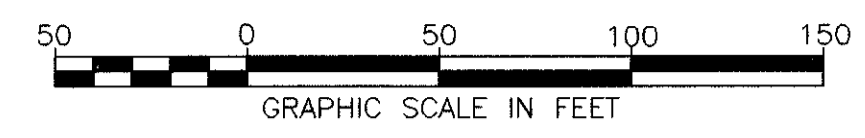
OHIO
FHWA
REGION 5

362
615



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Norwood Lateral



See Sheet No. 352
 Sta. 2+00H
 Match Line

See Sheet No. 362
 Sta. 36+00T
 Match Line

Match Line
 Sta. 4+00M
 See Sheet No. 364

Match Line
 Sta. 6+00H
 See Sheet No. 364

Match Line
 Sta. 48+75T
 See Sheet No. 364

PB#93
 48+40T
 32.5'LT
 SIGN #65
 CIR C3

C4-10
 47+24T

PB#87
 46+64T
 32'LT

PB#88
 46+68T
 35'RT

PB#89
 AT SOURCE

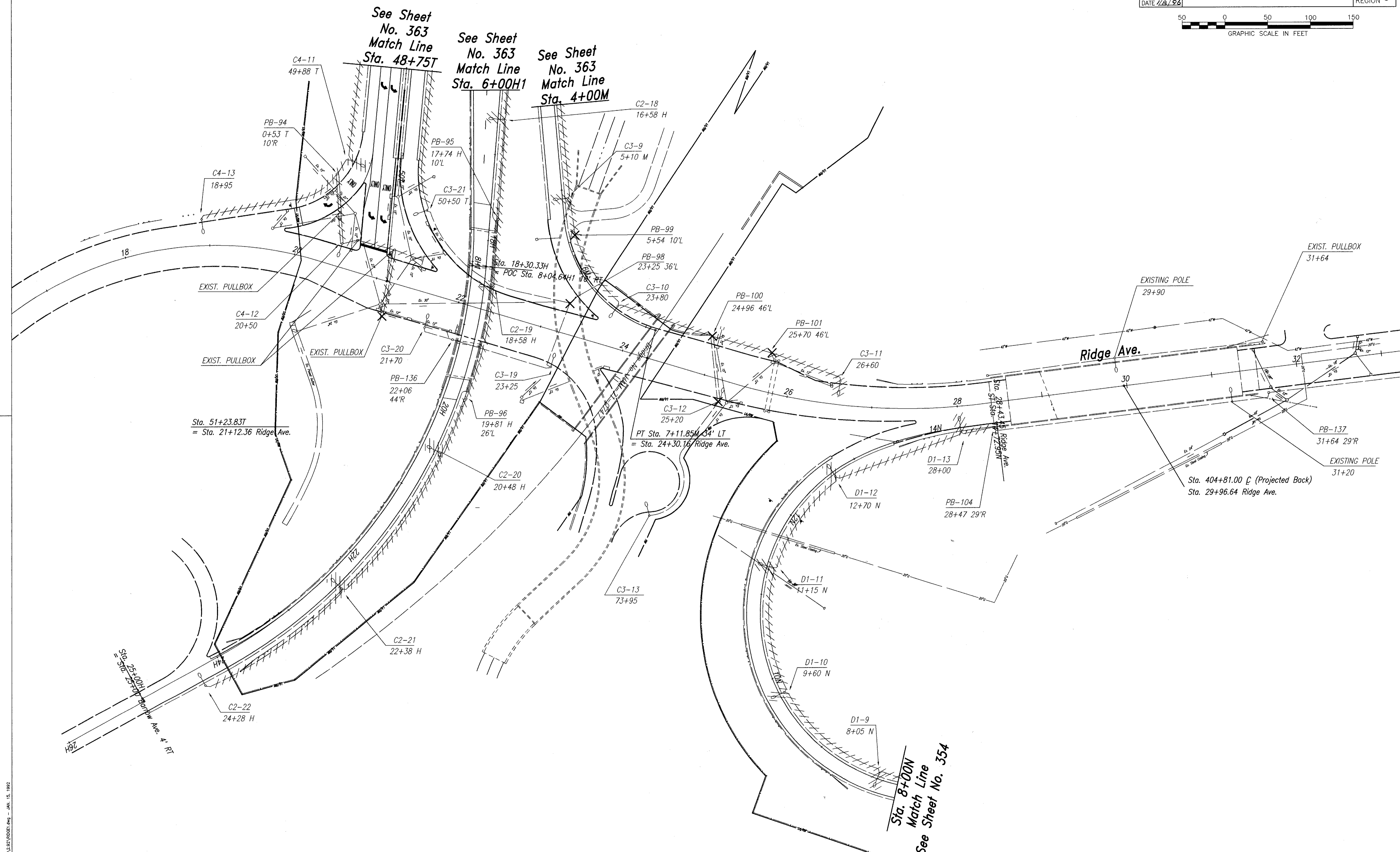
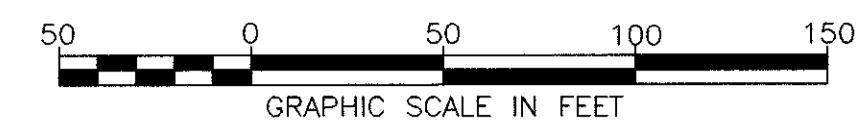
POWER SOURCE 'C'
 120/240 VOLTS
 38.5 KVA
 ALL CIRCUITS #2 AWG

CALC. BY: *KRB*
DATE: *1/5/96*
CHKD. BY: *BAP*
DATE: *1/8/96*

HAM-71-2.92

OHIO
FHWA
REGION 5

364
615



See Sheet
No. 363
Match Line
Sta. 48+75T

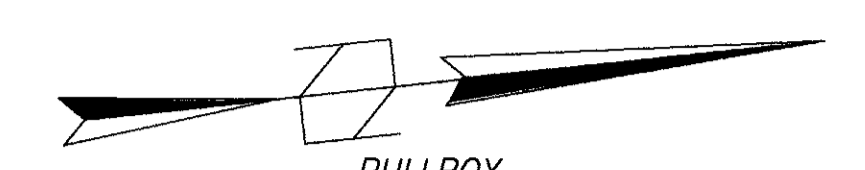
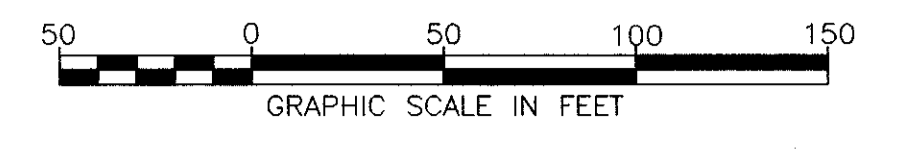
See Sheet
No. 363
Match Line
Sta. 6+00H

See Sheet
No. 363
Match Line
Sta. 4+00M

Sta. 8+00M
Match Line
See Sheet No. 354

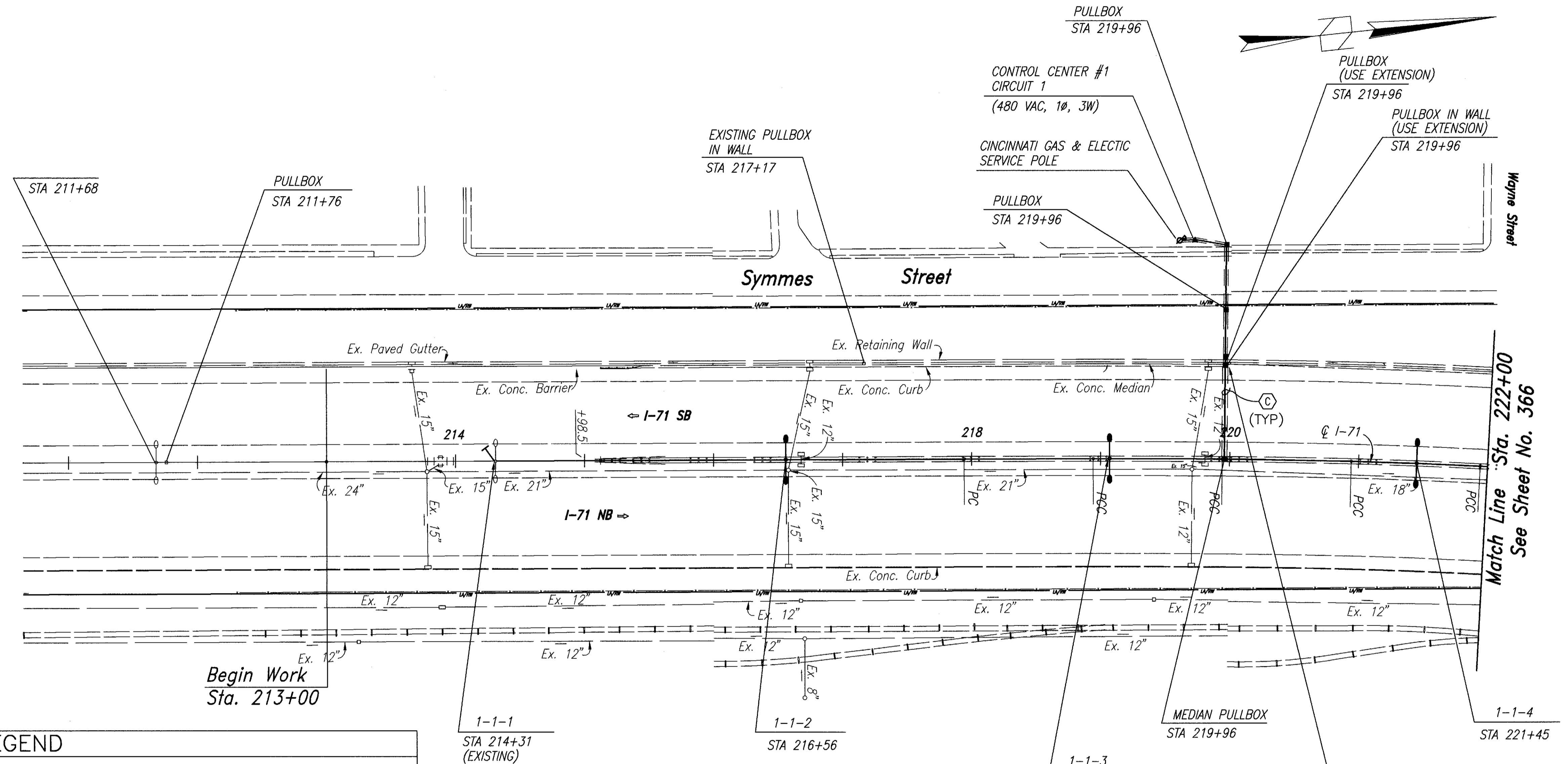
© 1995 by KRB Engineering, Inc. - JAN. 15, 1995

Ridge Ave.



KEYED NOTES:

- (A) CLEAN EXISTING PULLBOX, HANDHOLE OR JUNCTION BOX.
- (B) REFURBISH EXISTING CONTROL CENTER. SEE NOTES AND SPECIFICATIONS.
- (C) CLEAN AND MANDREL EXISTING CONDUITS.



PROPOSED LEGEND

	EXIST PULLBOX		PROPOSED CIRCUIT. HASH MARKS INDICATE NUMBER OF CONDUCTORS. NUMBER DENOTES WIRE SIZE (WIRE SIZE AND NUMBER OF CIRCUITS SHOWN ONLY ON CIRCUIT DIAGRAMS).
	PROPOSED PULL BOX		EXIST. CIRCUIT TO BE MAINTAINED
	PROPOSED BARRIER JUNCTION BOX		PROPOSED CIRCUIT CONDUCTORS IN NEW CONDUIT (WIRE SIZE AND NUMBER OF CIRCUITS SHOWN ONLY ON CIRCUIT DIAGRAMS).
	EXIST. WALL OR BARRIER J.B.		PROPOSED CIRCUIT CONDUCTORS IN EXISTING BURIED CONDUIT (WIRE SIZE AND NUMBER OF CIRCUITS SHOWN ONLY ON CIRCUIT DIAGRAMS).
	EXIST. BRIDGE MOUNTED O.H. SIGN		EXIST. BURIED CONDUIT TO REMAIN, MAINTAIN EXISTING CIRCUIT CONDUCTORS (WIRE SIZE AND NUMBER OF CIRCUITS SHOWN ONLY ON CIRCUIT DIAGRAMS).
	EXIST. TRUSS O.H. SIGN (CIRCUIT DIAGRAMS)		EXISTING EMPTY CONDUIT TO REMAIN FOR FUTURE USE
	EXIST. CANTILEVER O.H. SIGN (CIRCUIT DIAGRAMS)		PROPOSED CONTROL CENTER
	PROPOSED 310 W H.P.S. LUMINAIRE		EXIST. CONTROL CENTER TO REMAIN
	PROPOSED 2-310 W H.P.S. LUMINAIRES		CONNECTION TO EXISTING AT THIS LOCATION
	EXIST. POLE		EXISTING C. G. & E. UTILITY POLE
	POST TOP MOUNTED LUMINAIRE, TYPE V DISTRIBUTION		UNDERPASS LIGHT
	PROPOSED 200W H.P.S. TYPE II LUMINAIRE		CONDUIT STUB AND CAP AT END OF CIRCUIT
	PROPOSED LIGHT TOWER, 6-400 W H.P.S., TYPE V DISTRIBUTION.		
	PROPOSED LIGHT TOWER, 4-400 W H.P.S., TYPE III DISTRIBUTION.		
	PROPOSED LOW MAST POLE, 1-400W H.P.S., TYPE II, III DISTRIBUTION.		
	PROPOSED LOW MAST POLE, 1-400W H.P.S., TYPE II, III DISTRIBUTION		

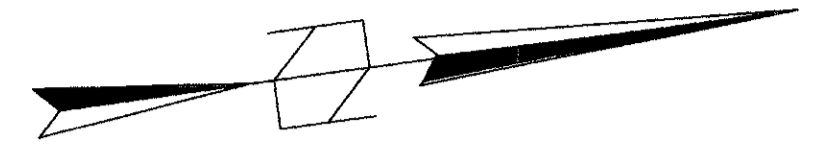
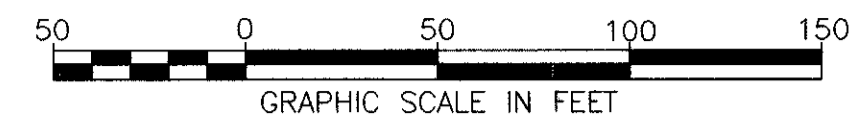
SEE DETAIL "NEW JUNCTION BOX INSTALLATION ALONG EXISTING RETAINING WALL, STATION 219+96 TO 232+00" ON SHEET 407.

Match Line Sta. 222+00
 See Sheet No. 366

CALC. BY: KRB
DATE: 1/5/86
CHKD. BY: BAP
DATE: 1/8/86

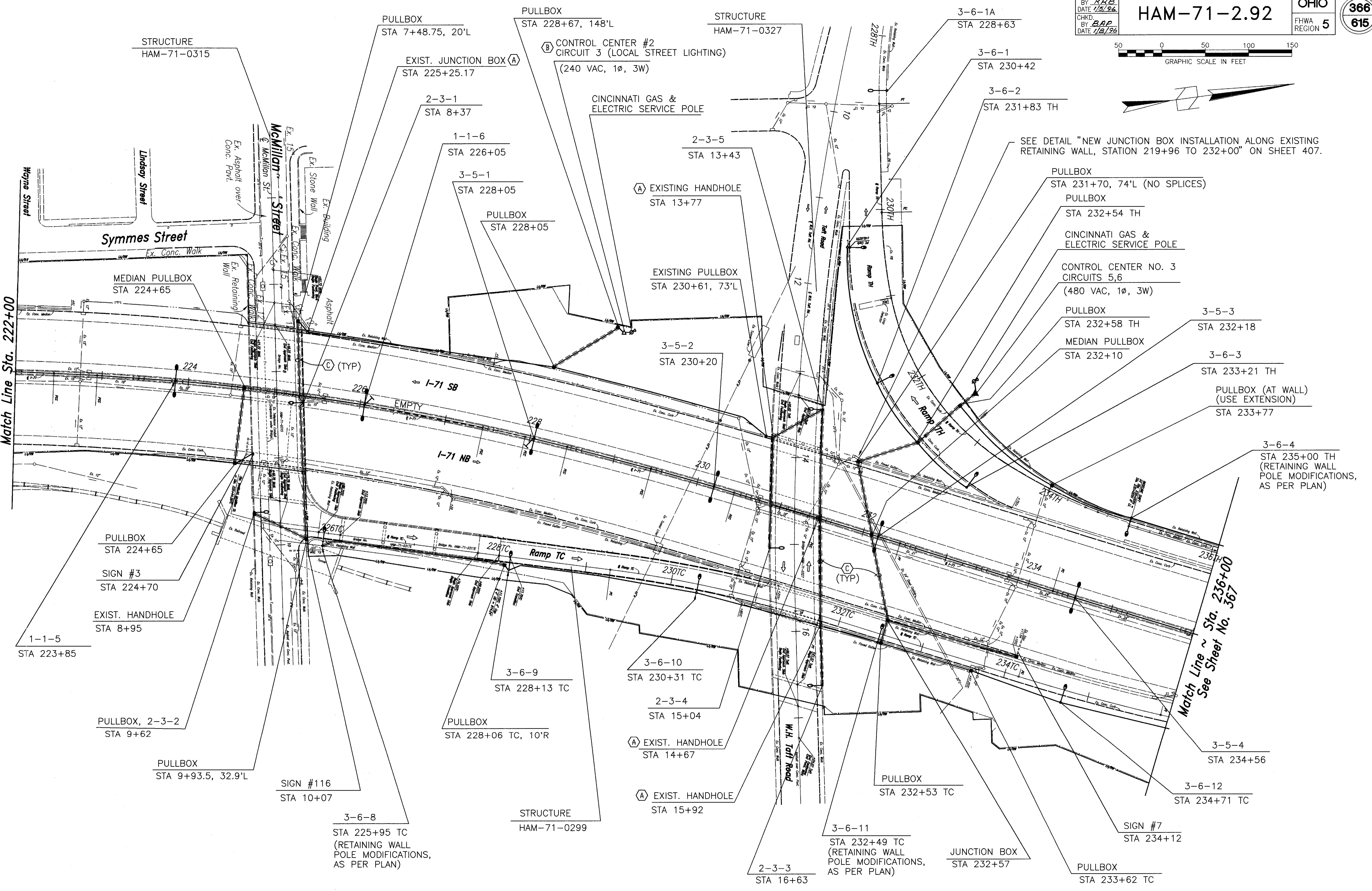
HAM-71-2.92

OHIO
FHWA REGION 5
366
615



See Sheet No. 365
Match Line Sta. 222+00

Match Line ~ Sta. 236+00
See Sheet No. 367



SEE DETAIL "NEW JUNCTION BOX INSTALLATION ALONG EXISTING RETAINING WALL, STATION 219+96 TO 232+00" ON SHEET 407.

3-6-4
STA 235+00 TH
(RETAINING WALL
POLE MODIFICATIONS,
AS PER PLAN)

3-5-4
STA 234+56

3-6-12
STA 234+71 TC

SIGN #7
STA 234+12

PULLBOX
STA 233+62 TC

JUNCTION BOX
STA 232+57

3-6-11
STA 232+49 TC
(RETAINING WALL
POLE MODIFICATIONS,
AS PER PLAN)

2-3-3
STA 16+63

(A) EXIST. HANDHOLE
STA 15+92

(A) EXIST. HANDHOLE
STA 14+67

2-3-4
STA 15+04

3-6-10
STA 230+31 TC

3-6-9
STA 228+13 TC

PULLBOX
STA 228+06 TC, 10'R

3-6-8
STA 225+95 TC
(RETAINING WALL
POLE MODIFICATIONS,
AS PER PLAN)

SIGN #116
STA 10+07

PULLBOX
STA 9+93.5, 32.9'L

PULLBOX, 2-3-2
STA 9+62

1-1-5
STA 223+85

EXIST. HANDHOLE
STA 8+95

SIGN #3
STA 224+70

PULLBOX
STA 224+65

STRUCTURE
HAM-71-0315

PULLBOX
STA 7+48.75, 20'L

EXIST. JUNCTION BOX (A)
STA 225+25.17

2-3-1
STA 8+37

1-1-6
STA 226+05

3-5-1
STA 228+05

PULLBOX
STA 228+05

PULLBOX
STA 228+67, 148'L

(B) CONTROL CENTER #2
CIRCUIT 3 (LOCAL STREET LIGHTING)
(240 VAC, 1Ø, 3W)

CINCINNATI GAS &
ELECTRIC SERVICE POLE

2-3-5
STA 13+43

(A) EXISTING HANDHOLE
STA 13+77

EXISTING PULLBOX
STA 230+61, 73'L

3-5-2
STA 230+20

STRUCTURE
HAM-71-0327

3-6-1A
STA 228+63

3-6-1
STA 230+42

3-6-2
STA 231+83 TH

PULLBOX
STA 231+70, 74'L (NO SPLICES)

PULLBOX
STA 232+54 TH

CINCINNATI GAS &
ELECTRIC SERVICE POLE

CONTROL CENTER NO. 3
CIRCUITS 5,6
(480 VAC, 1Ø, 3W)

PULLBOX
STA 232+58 TH

MEDIAN PULLBOX
STA 232+10

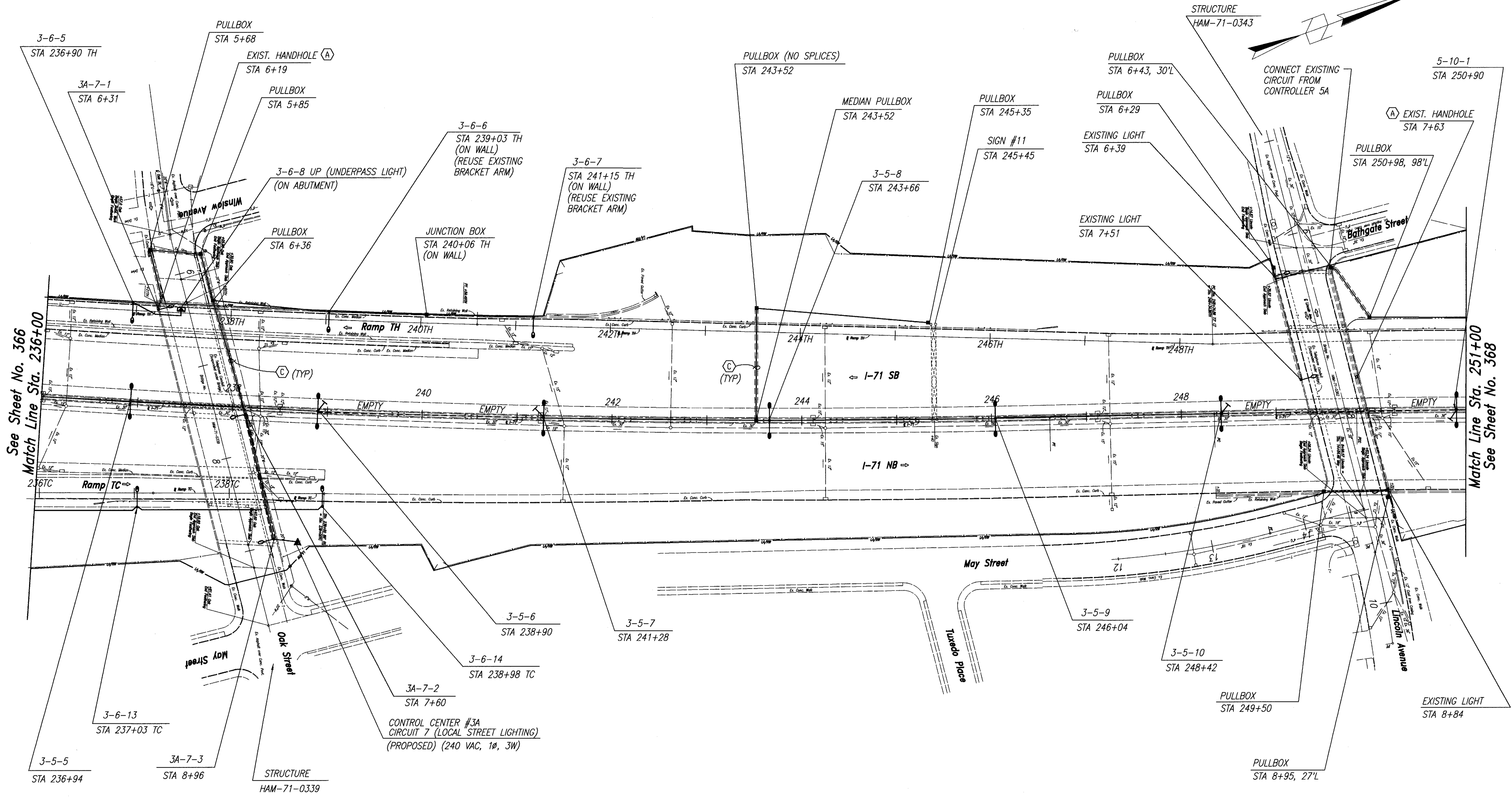
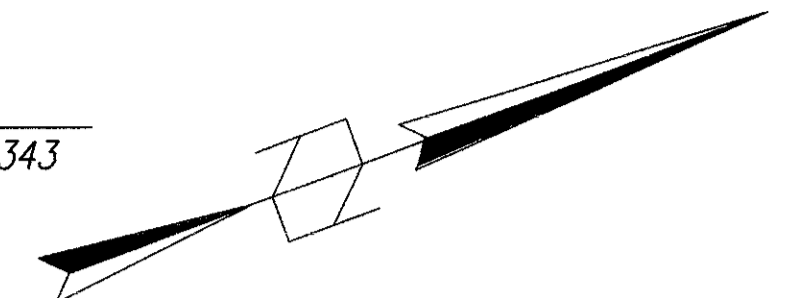
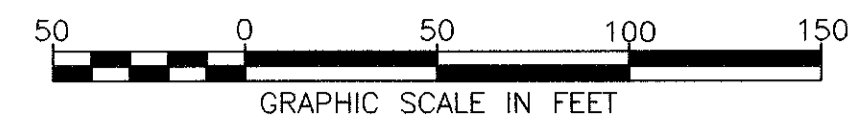
3-5-3
STA 232+18

3-6-3
STA 233+21 TH

PULLBOX (AT WALL)
(USE EXTENSION)
STA 233+77

DATE PLOTTED: 1/15/86

HAM-71-2.92



See Sheet No. 366
Match Line Sta. 236+00

Match Line Sta. 251+00
See Sheet No. 368

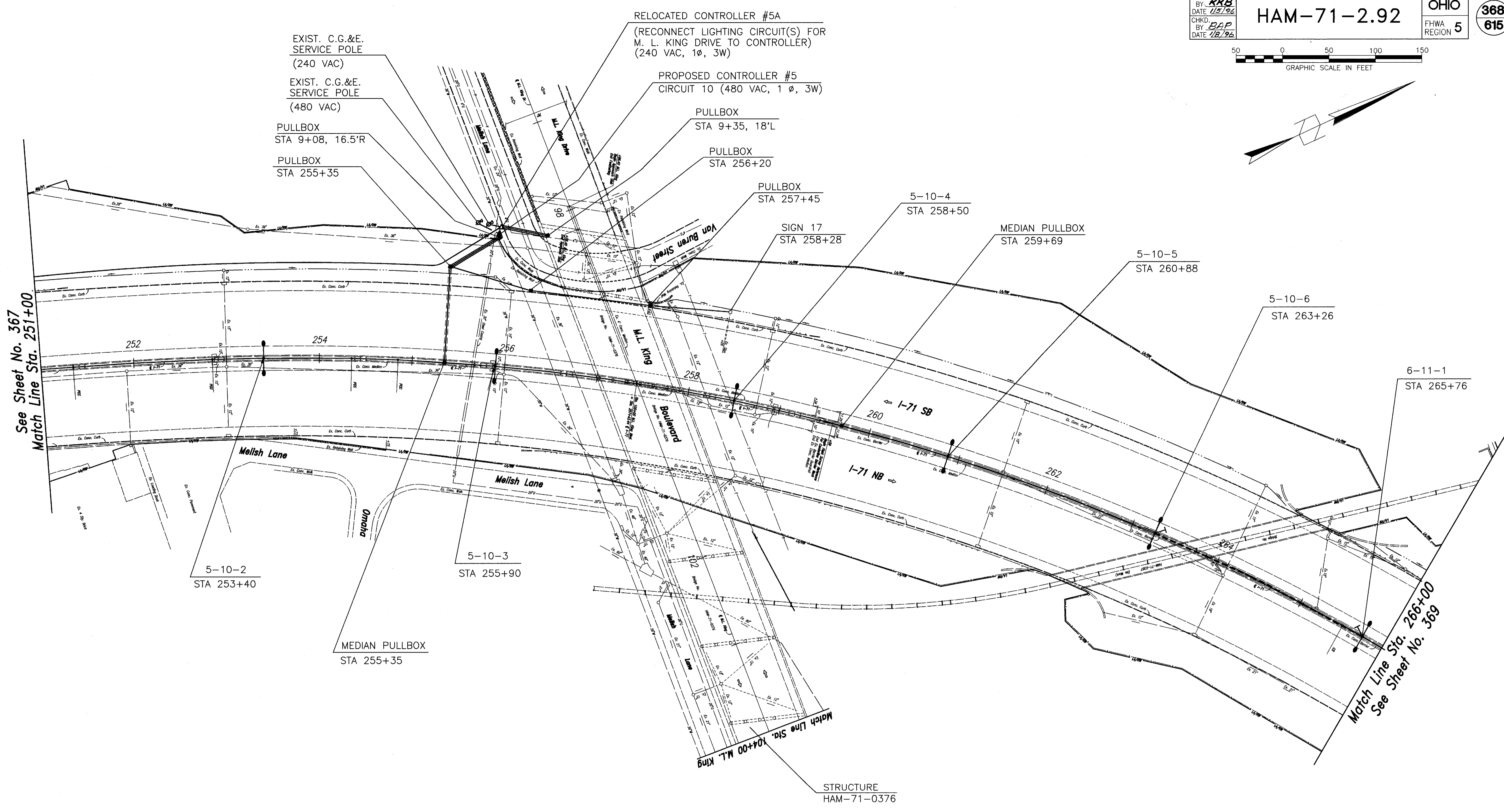
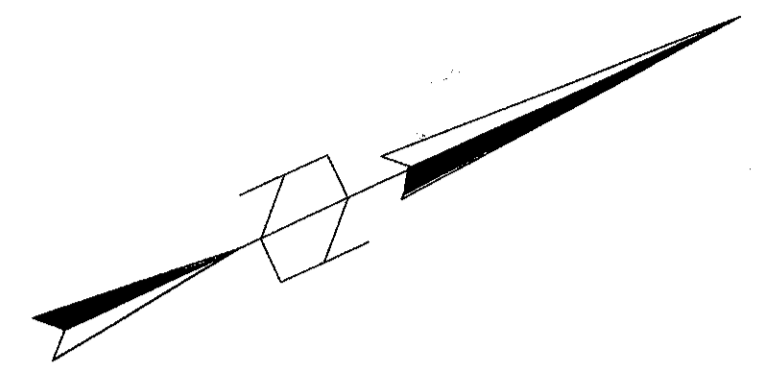
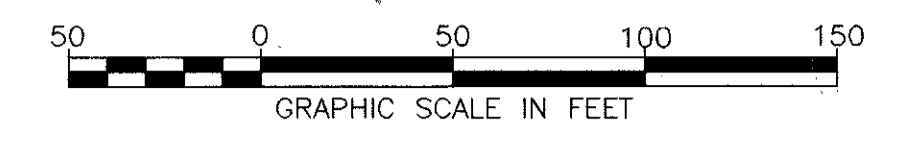
© 1996 by KRB Engineering - JAN. 20, 1992

CALC. BY: **KRB**
DATE: **11/1/94**
CHKD. BY: **BAP**
DATE: **12/1/94**

HAM-71-2.92

OHIO
FHWA
REGION 5

368
615



See Sheet No. 367
Match Line Sta. 251+00

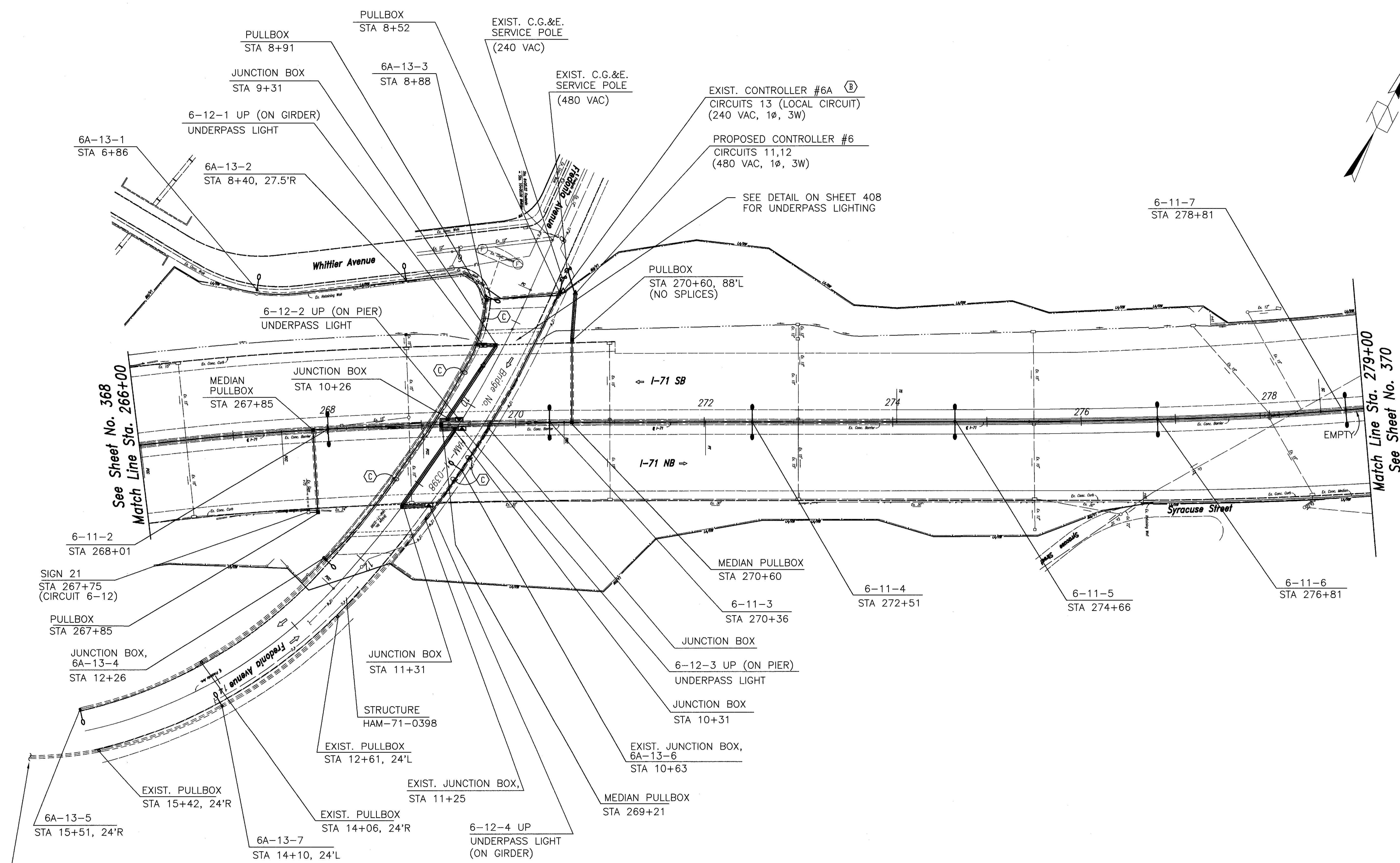
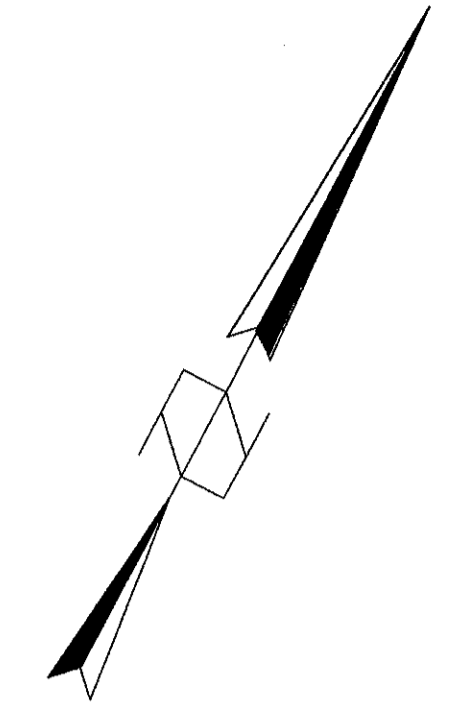
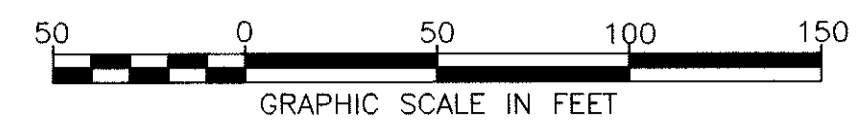
Match Line Sta. 266+00
See Sheet No. 369

CALC. BY: KRB
DATE: 1/5/94
CHKD. BY: BAP
DATE: 1/8/94

HAM-71-2.92

OHIO
FHWA REGION 5

369
615



See Sheet No. 368
Match Line Sta. 266+00

Match Line Sta. 279+00
See Sheet No. 370

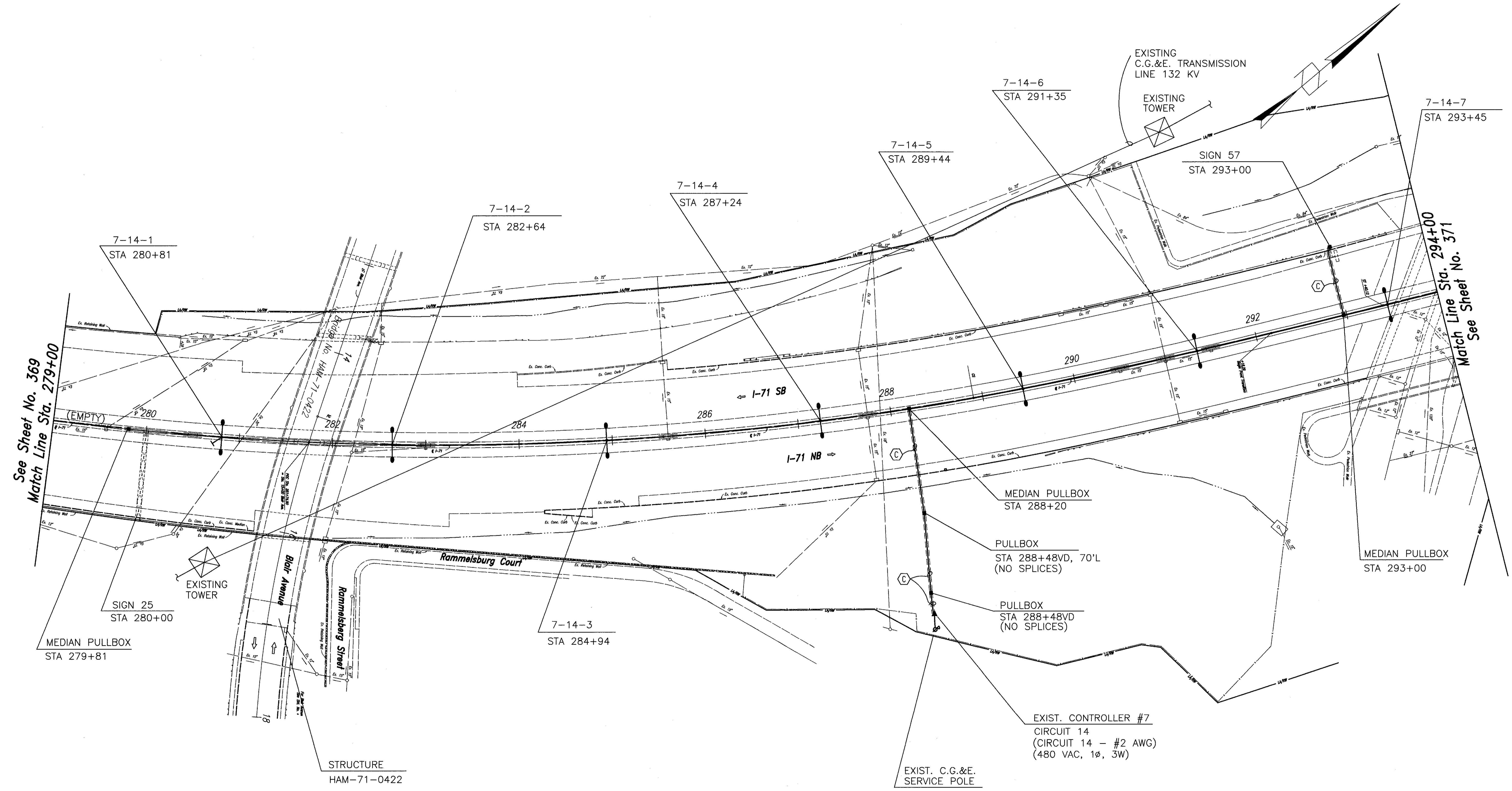
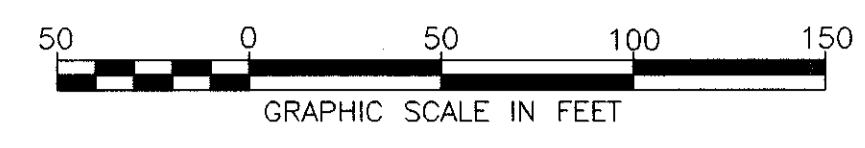
TO TWO EXISTING LIGHT STANDARDS
AT STATIONS 17+15 AND 18+79 - 24' LT

CALC. BY: *KRB*
DATE: *1/5/98*
CHKD. BY: *B.P.P.*
DATE: *1/8/98*

HAM-71-2.92

OHIO
FHWA REGION 5

370
615



See Sheet No. 369
Match Line Sta. 279+00

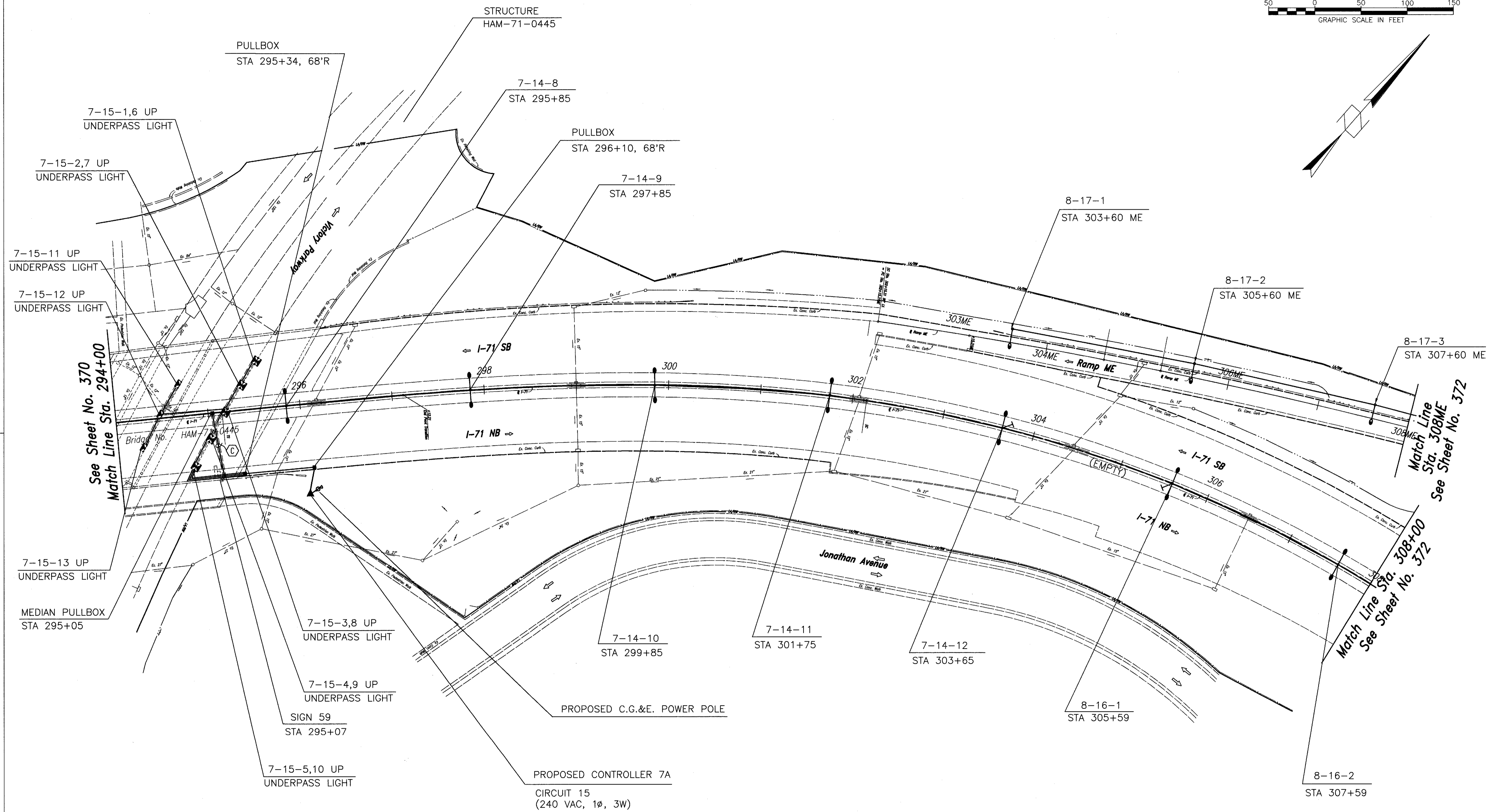
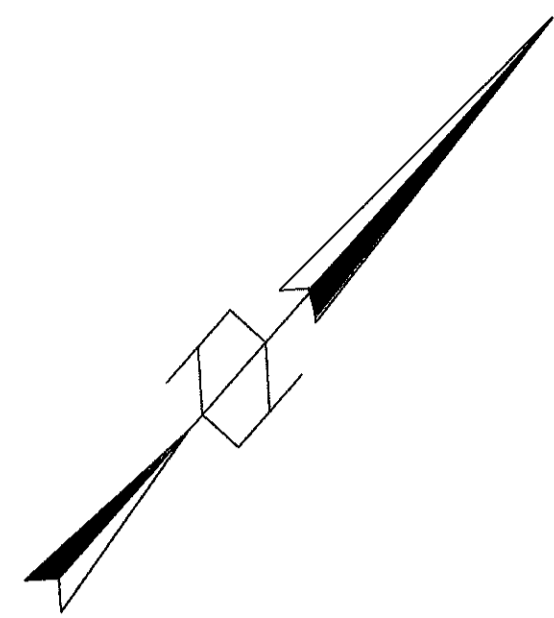
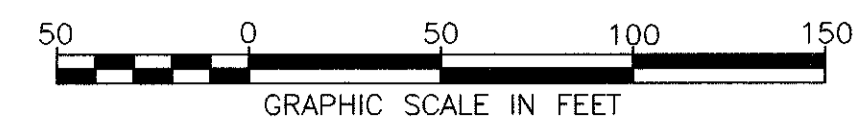
Match Line Sta. 294+00
See Sheet No. 371

CALC. BY: KRB
 DATE: 6/27/99
 CHKD. BY: BAP
 DATE: 9/15/99

HAM-71-2.92

OHIO
 FHWA REGION 5

371
 615

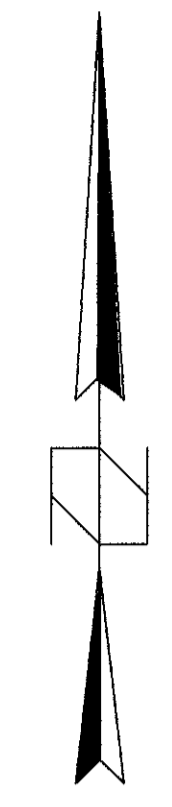
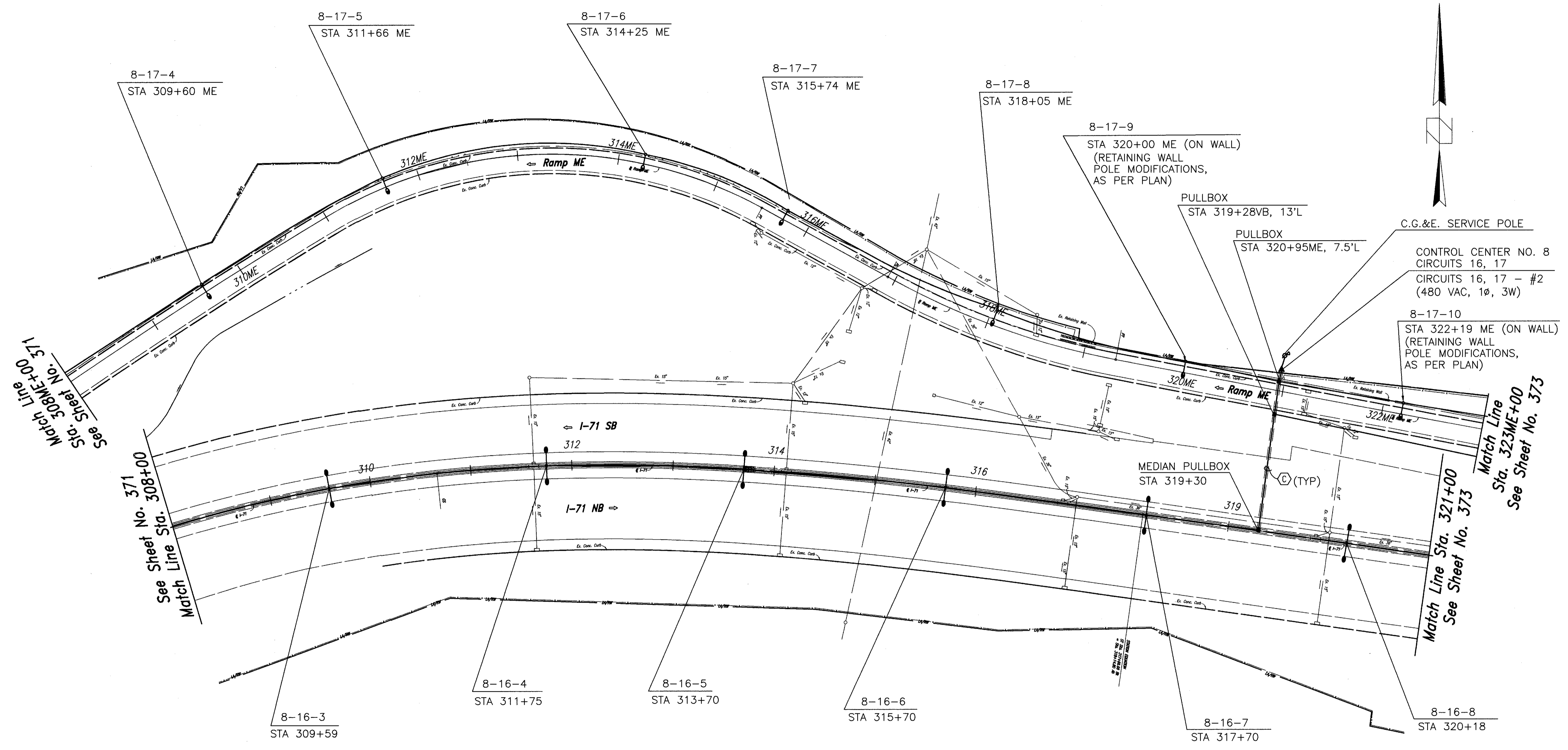
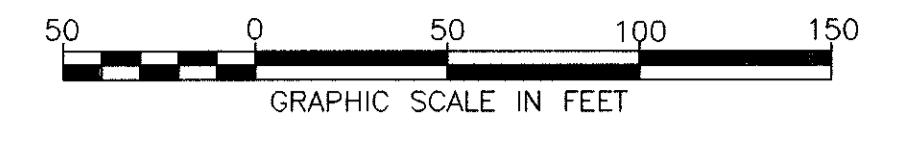


See Sheet No. 370
 Match Line Sta. 294+00

Match Line
 Sta. 308ME
 See Sheet No. 372

Match Line Sta. 308+00
 See Sheet No. 372

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H:\V\12\95\103.dwg - DEC. 13, 1995

PROPOSED CONTROL CENTER #8A
CIRCUIT 18 (240 VAC, 1Ø, 3W)

PROPOSED C.G.&E. SERVICE POLE

EXIST. JUNCTION BOX (A)
8-18-1
STA 2+10

8-17-11
STA 324+15 ME
(RETAINING WALL
POLE MODIFICATIONS,
AS PER PLAN)

See Sheet No. 372
Match Line Sta. 321+00 See Sheet No. 372
Sta. 323ME+00

PULLBOX
STA 1+25, 47'R

PULLBOX
STA 1+30, 35'R

PULLBOX
STA 325+30ME, 28'L

PULLBOX
STA 325+90

SIGN #36
STA 324+00

8-17-12
STA 326+33 ME

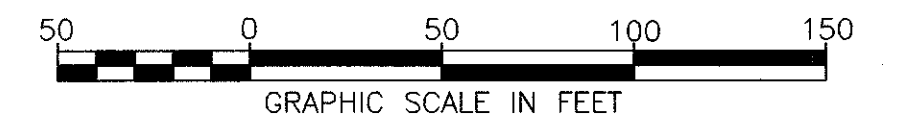
8-17-13
STA 328+51 ME

8-17-14
STA 330+69 ME

8-17-15
STA 332+72 ME

8-17-16
STA 334+62 ME

C.G.&E. SERVICE POLE



CONTROL CENTER NO. 9
CIRCUITS 19, 20, 21
(480 VAC, 1Ø, 3W)

PULLBOX
STA 333+87
(NO SPLICES)

Match Line Sta. 334+00
See Sheet No. 374

MEDIAN
PULLBOX
STA 333+87

PULLBOX
STA 333+87

PULLBOX
STA 333+00

SIGN #38
STA 332+90

9-19-3
STA 331+85

9-19-2
STA 329+45

9-19-1
STA 327+00

8-16-10
STA 324+55

STRUCTURE
HAM-71-0500

EXIST. JUNCTION BOX (A)
8A-18-2
STA 3+83

PULLBOX
STA 4+65

8A-18-3
STA 5+53

PULLBOX
SAT 5+53

PULLBOX
STA 322+64

SIGN #34
STA 322+70
(CIRCUIT 8-16)

(A) EXIST. JUNCTION BOX
STA 3+02

8-16-9
STA 322+18

MEDIAN PULLBOX
STA 322+64

CALC. BY: KPB
DATE: 11/19/04
CHKD. BY: BAP
DATE: 1/18/05

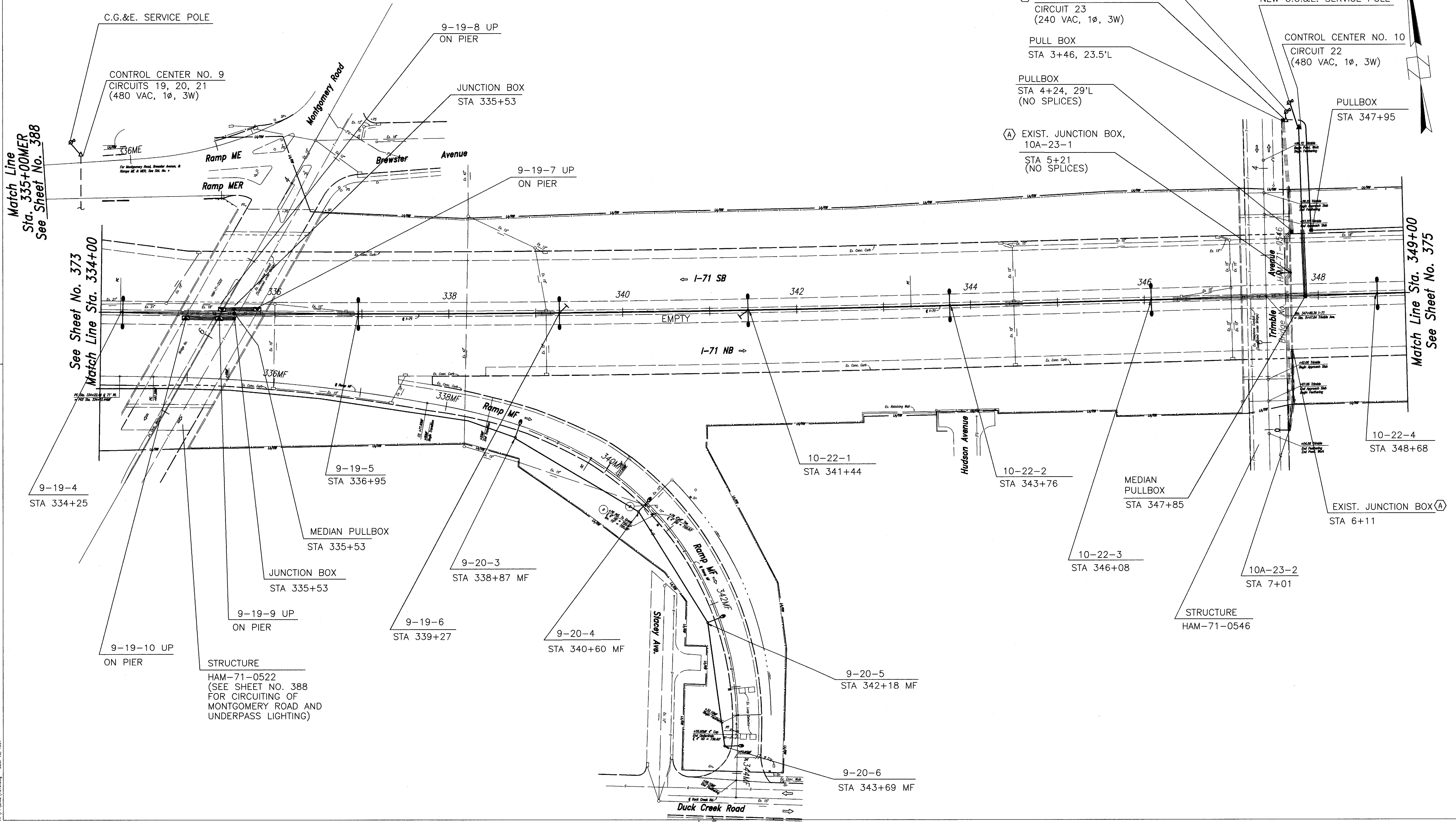
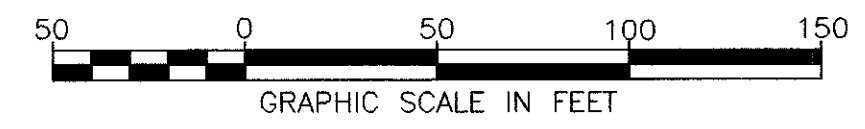
HAM-71-2.92

OHIO
FHWA
REGION 5
373
615

CALC. BY: *KRB*
DATE: *1/5/96*
CHKD. BY: *BAP*
DATE: *1/8/96*

HAM-71-2.92

OHIO
FHWA REGION 5
374
615



Match Line
Sta. 335+00MER
See Sheet No. 388

See Sheet No. 373
Match Line Sta. 334+00

Match Line Sta. 349+00
See Sheet No. 375

STRUCTURE
HAM-71-0522
(SEE SHEET NO. 388
FOR CIRCUITING OF
MONTGOMERY ROAD AND
UNDERPASS LIGHTING)

- EXISTING C.G.&.E. SERVICE POLE
- NEW C.G.&.E. SERVICE POLE
- CONTROL CENTER NO. 10A
CIRCUIT 23
(240 VAC, 1Ø, 3W)
- PULL BOX
STA 3+46, 23.5'L
- CONTROL CENTER NO. 10
CIRCUIT 22
(480 VAC, 1Ø, 3W)
- PULLBOX
STA 4+24, 29'L
(NO SPLICES)
- PULLBOX
STA 347+95
- EXIST. JUNCTION BOX,
10A-23-1
STA 5+21
(NO SPLICES)
- EXIST. JUNCTION BOX (A)
STA 6+11

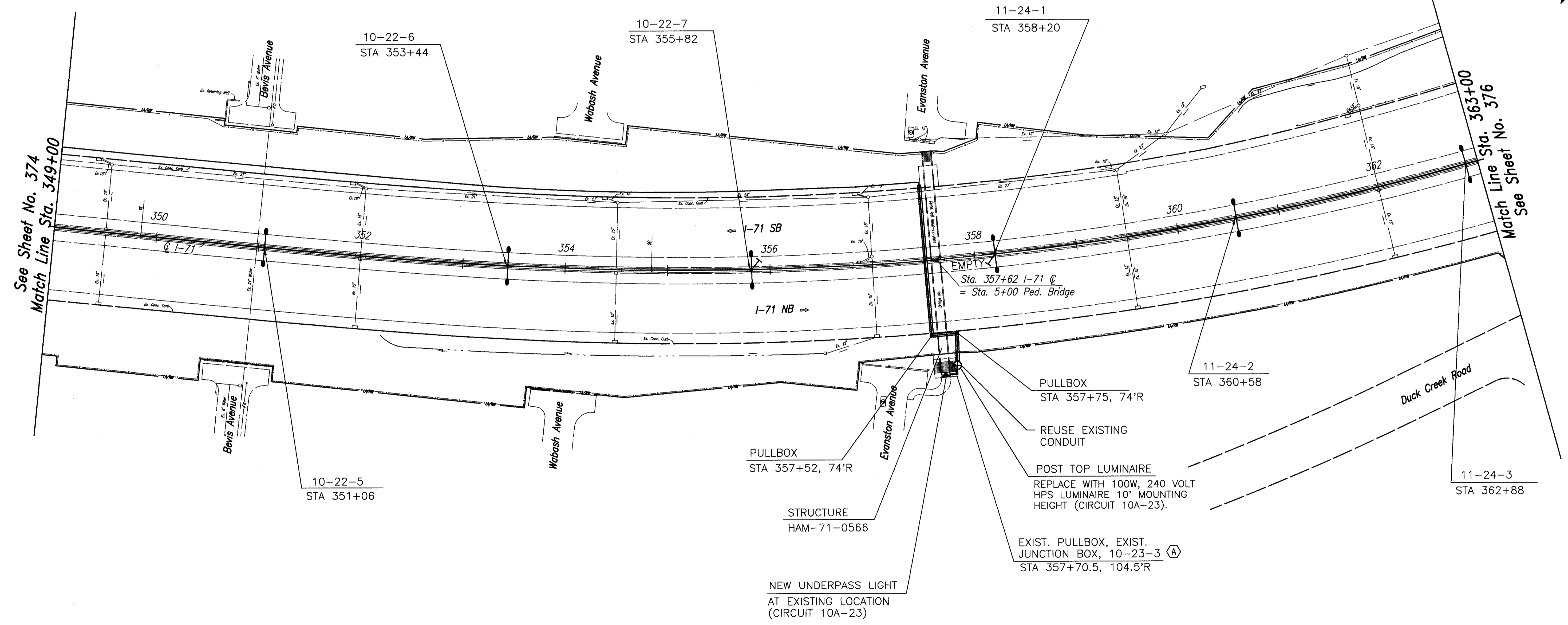
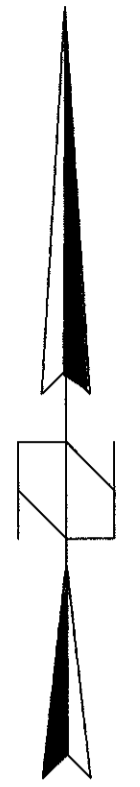
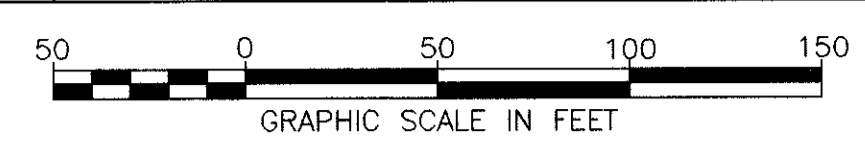
H:\V\1328\1328.dwg - DEC. 13, 1991

CALC. BY: **KCB**
 DATE: **6/27/93**
 CHKD. BY: **BBP**
 DATE: **9/15/93**

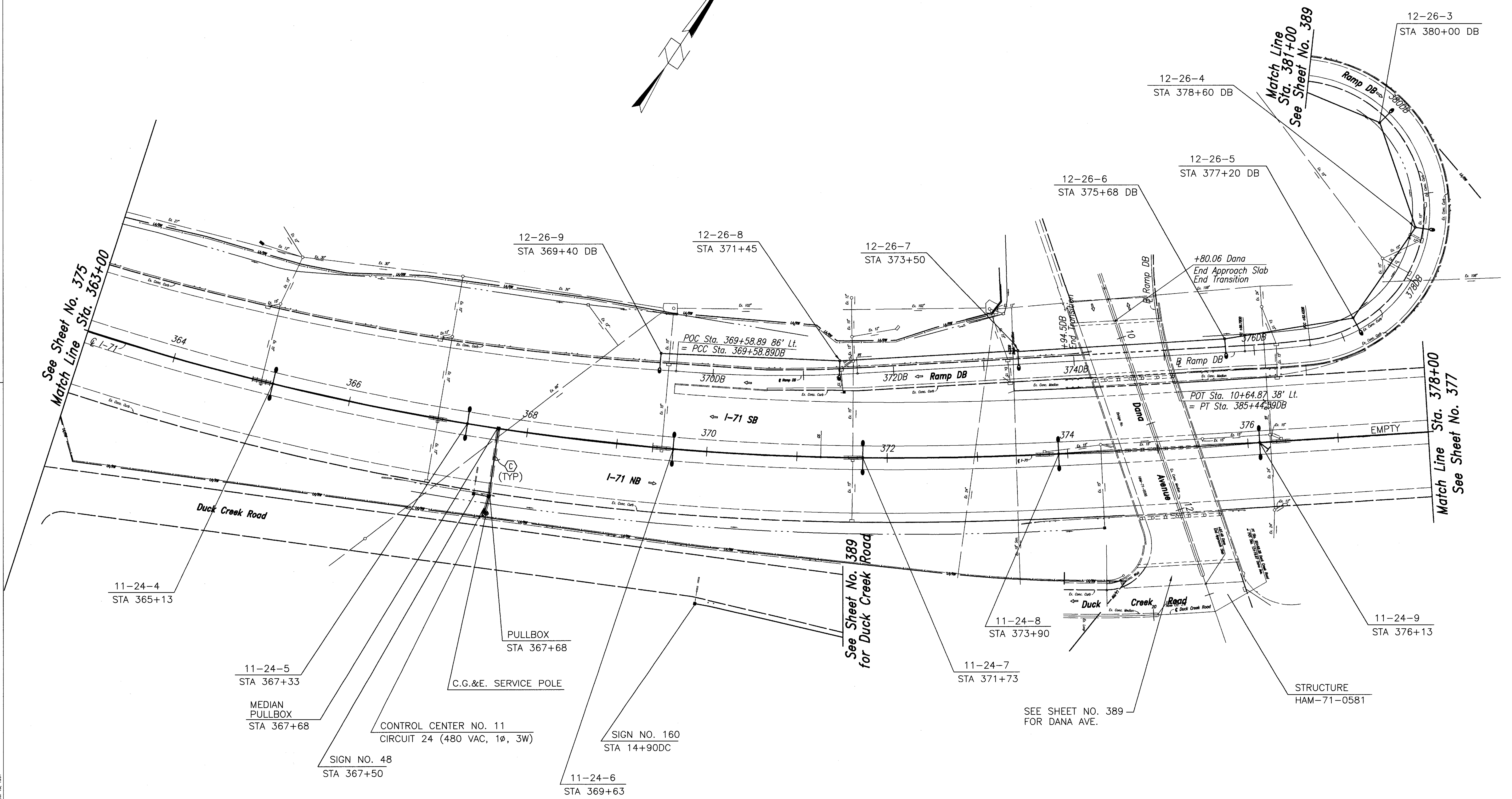
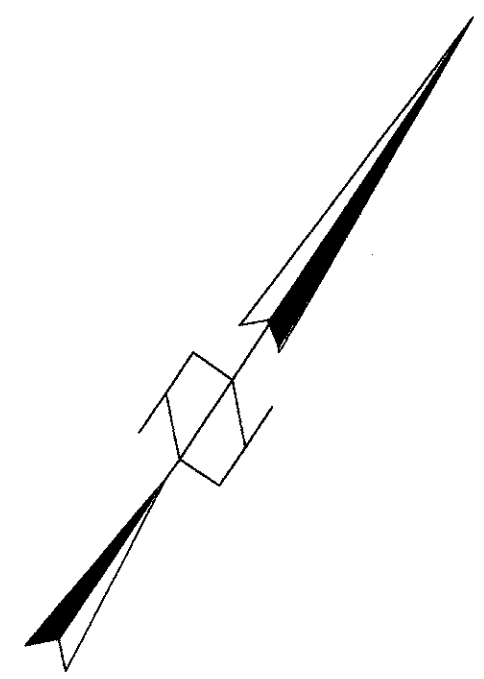
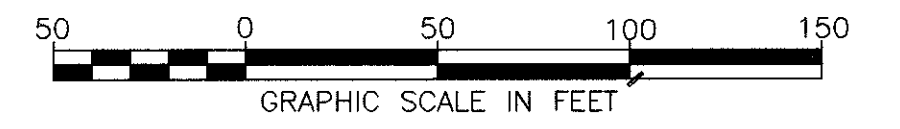
HAM-71-2.92

OHIO
 FHWA REGION 5

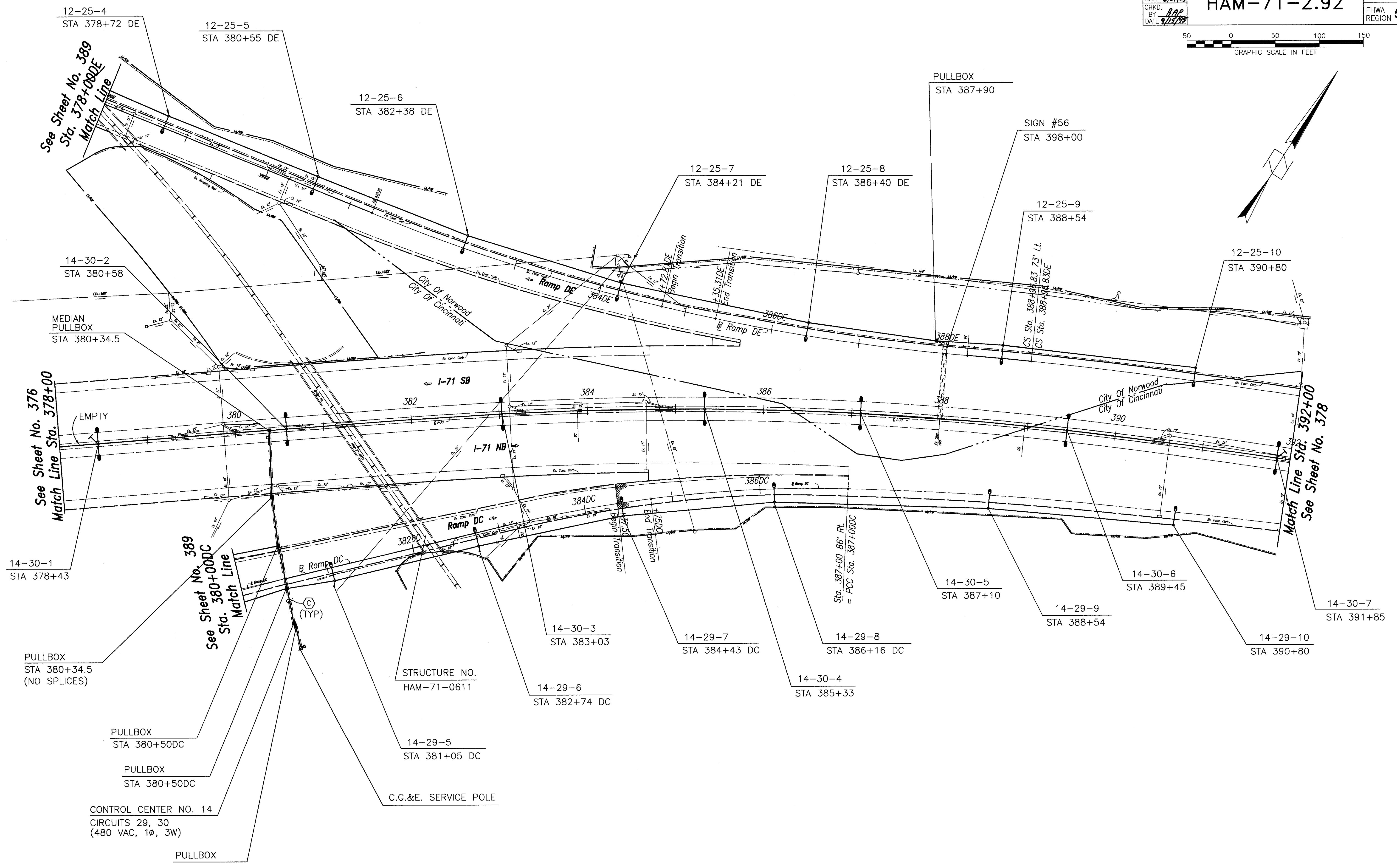
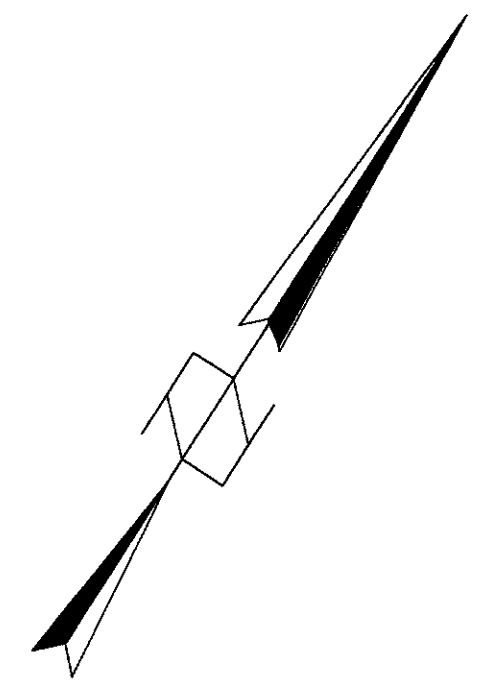
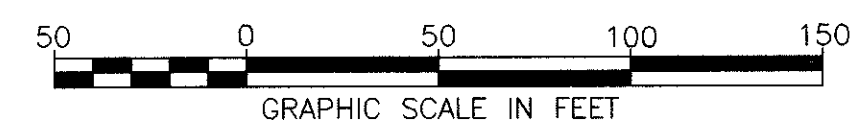
375
 615



H:\V\2\201\101.dwg - DEC. 13, 1991



H:\71\2.92\T02.dwg - DEC. 13, 1991



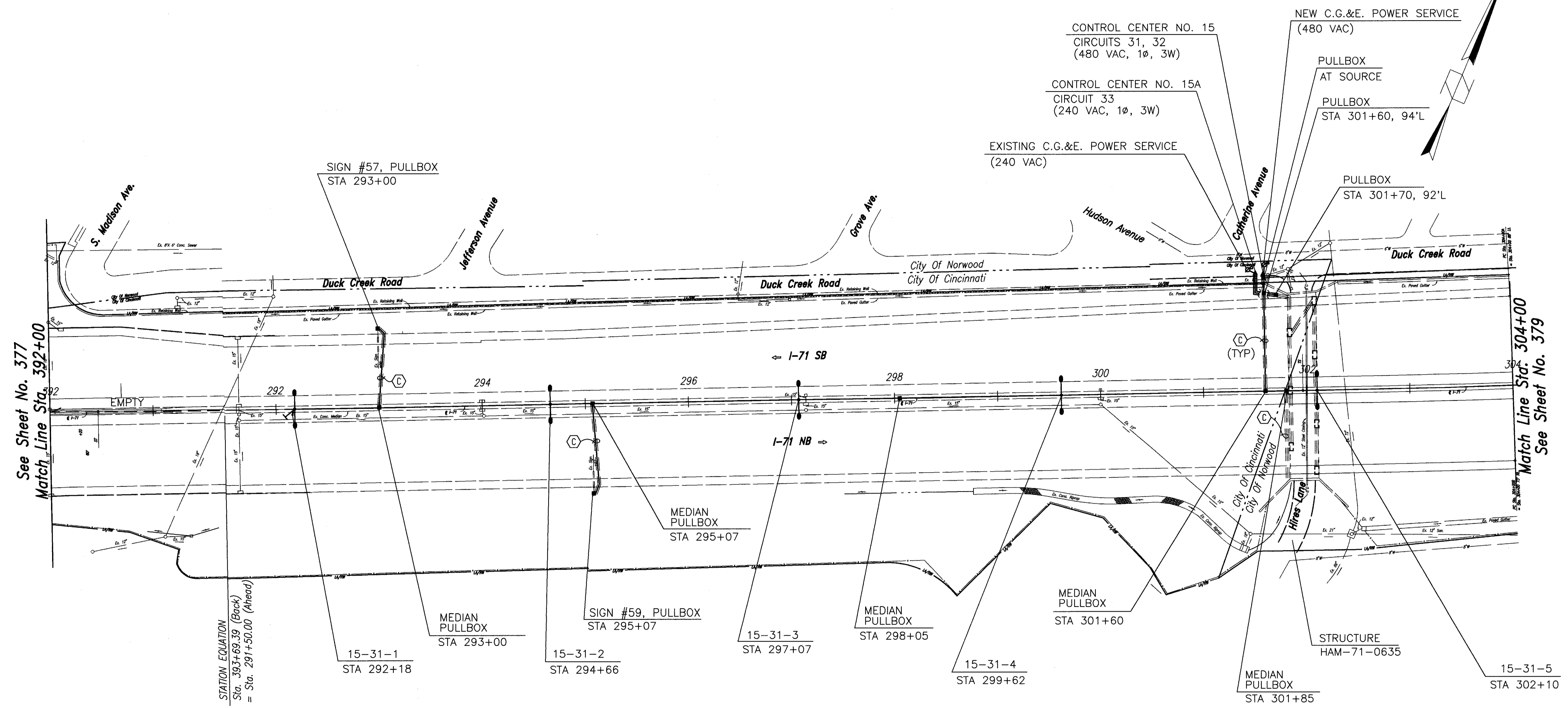
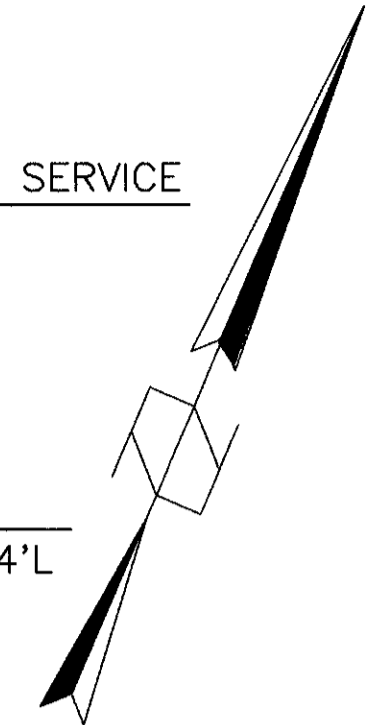
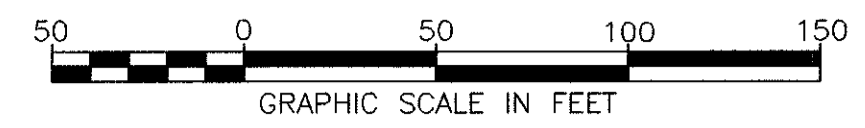
PL 1712-02/10/13.dwg - DEC. 13, 1991

CALC. BY: KRB
DATE: 6/27/93
CHKD. BY: BAP
DATE: 9/15/93

HAM-71-2.92

OHIO
FHWA REGION 5

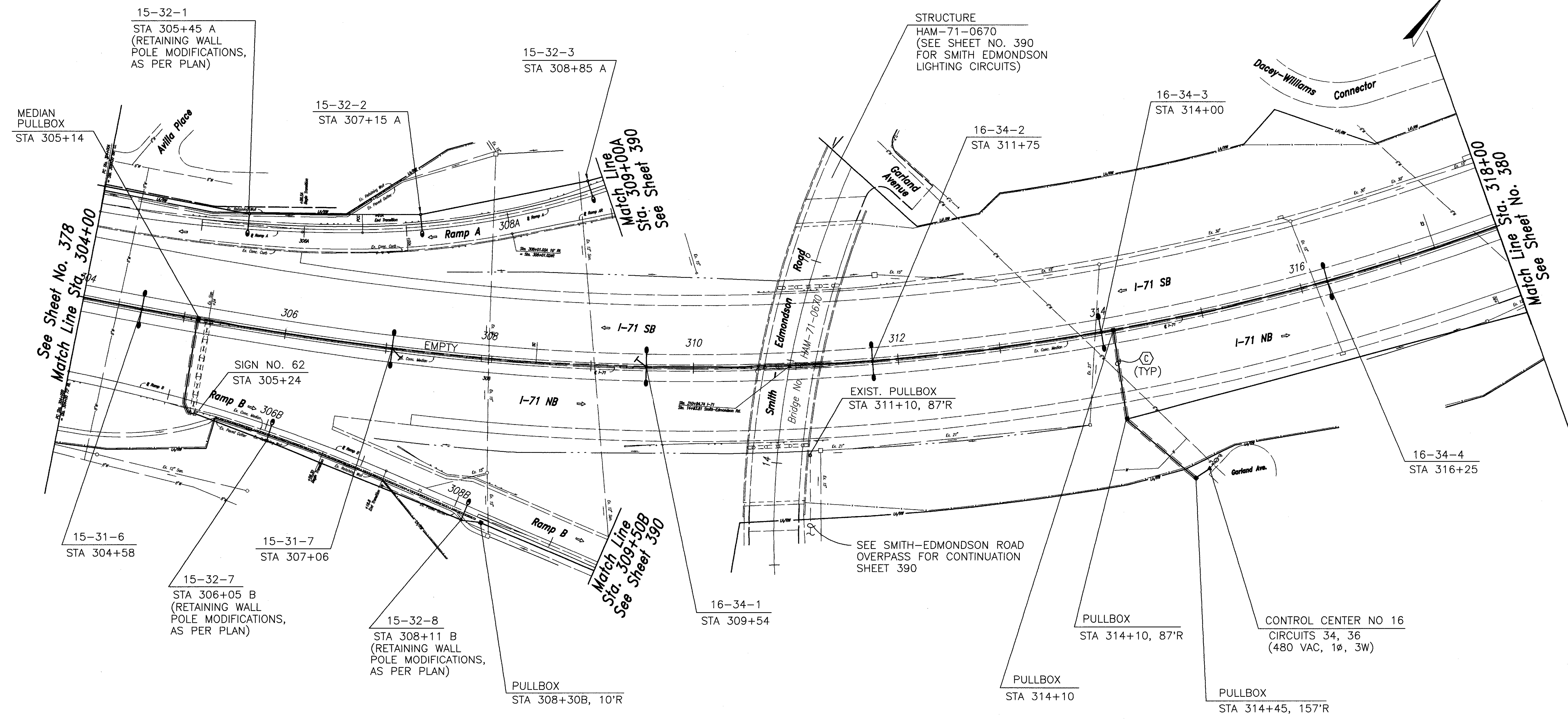
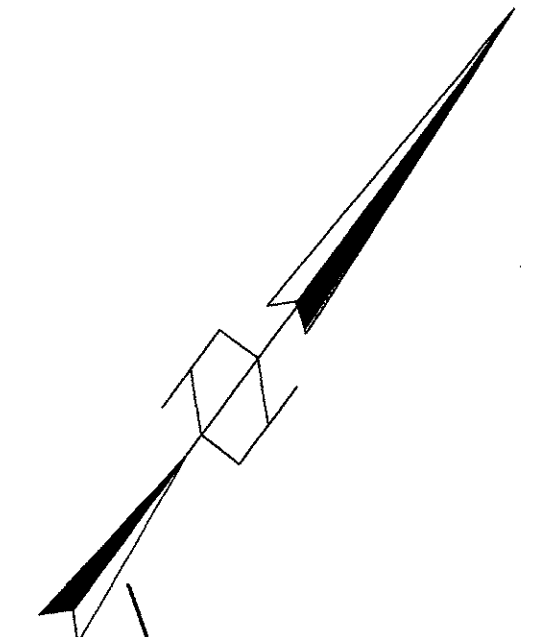
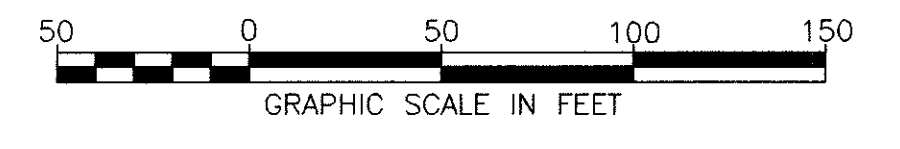
378
615



See Sheet No. 377
Match Line Sta. 392+00

Match Line Sta. 304+00
See Sheet No. 379

STATION EQUATION
Sta. 393+69.39 (Back)
= Sta. 291+50.00 (Ahead)



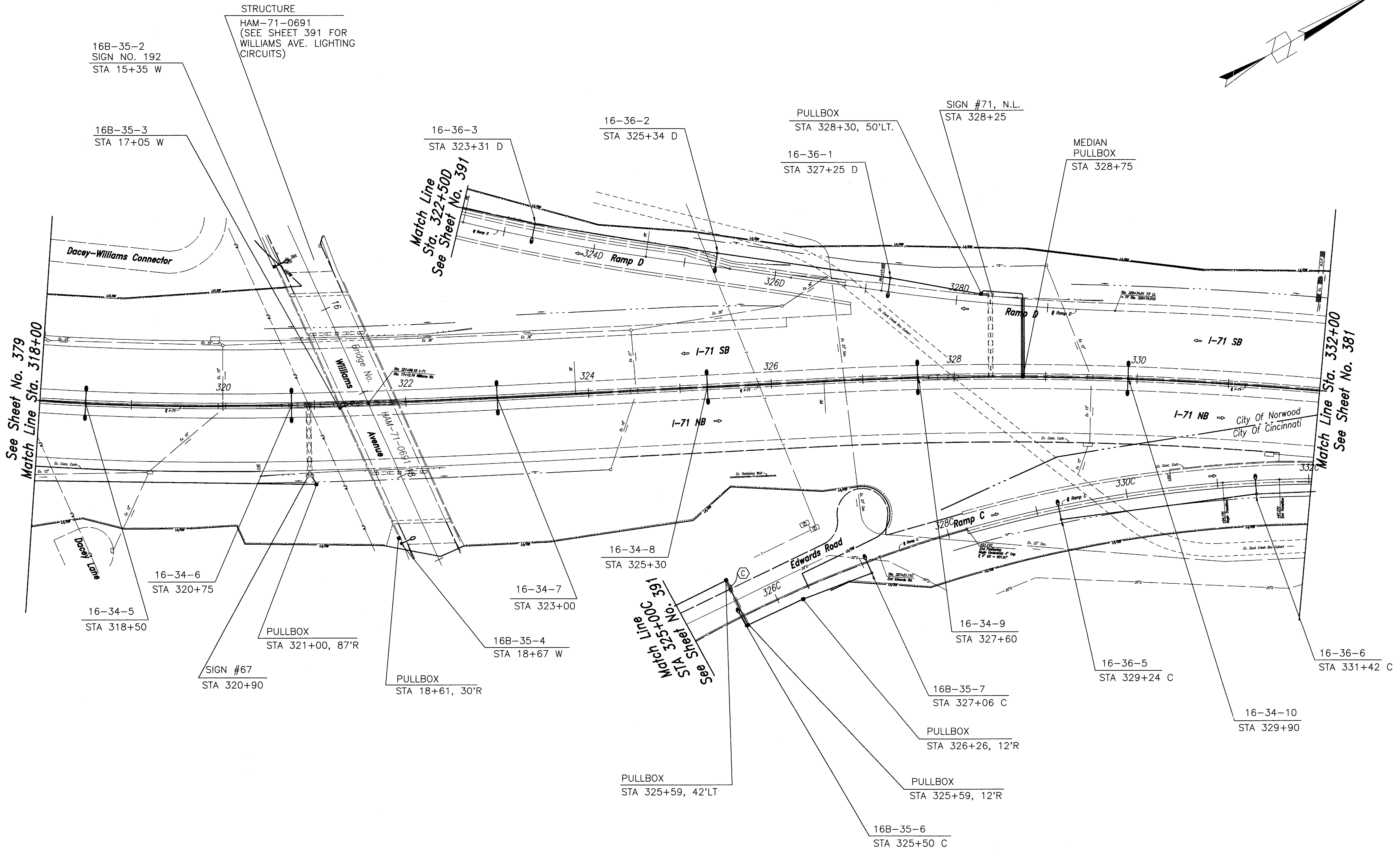
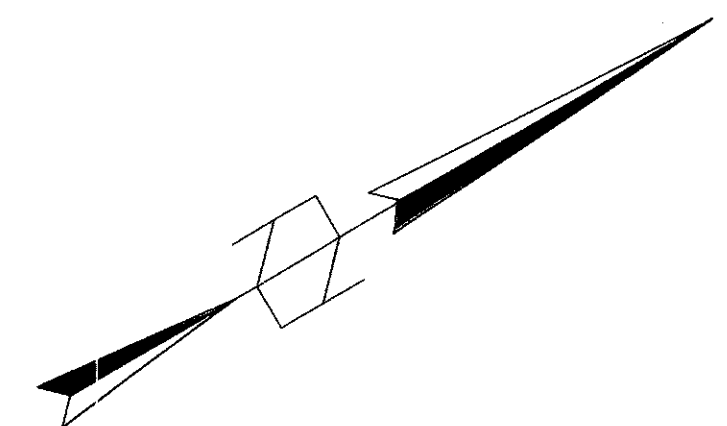
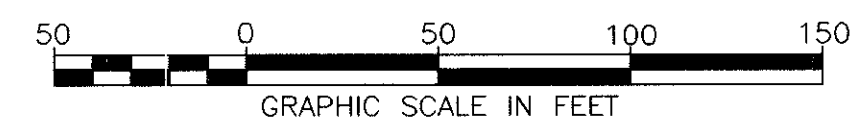
H:\71\2.92\T015.dwg - DEC. 13, 1991

CALC. BY: KRB
DATE: 7/5/98
CHKD. BY: BAP
DATE: 1/8/98

HAM-71-2.92

OHIO
FHWA REGION 5

380
615



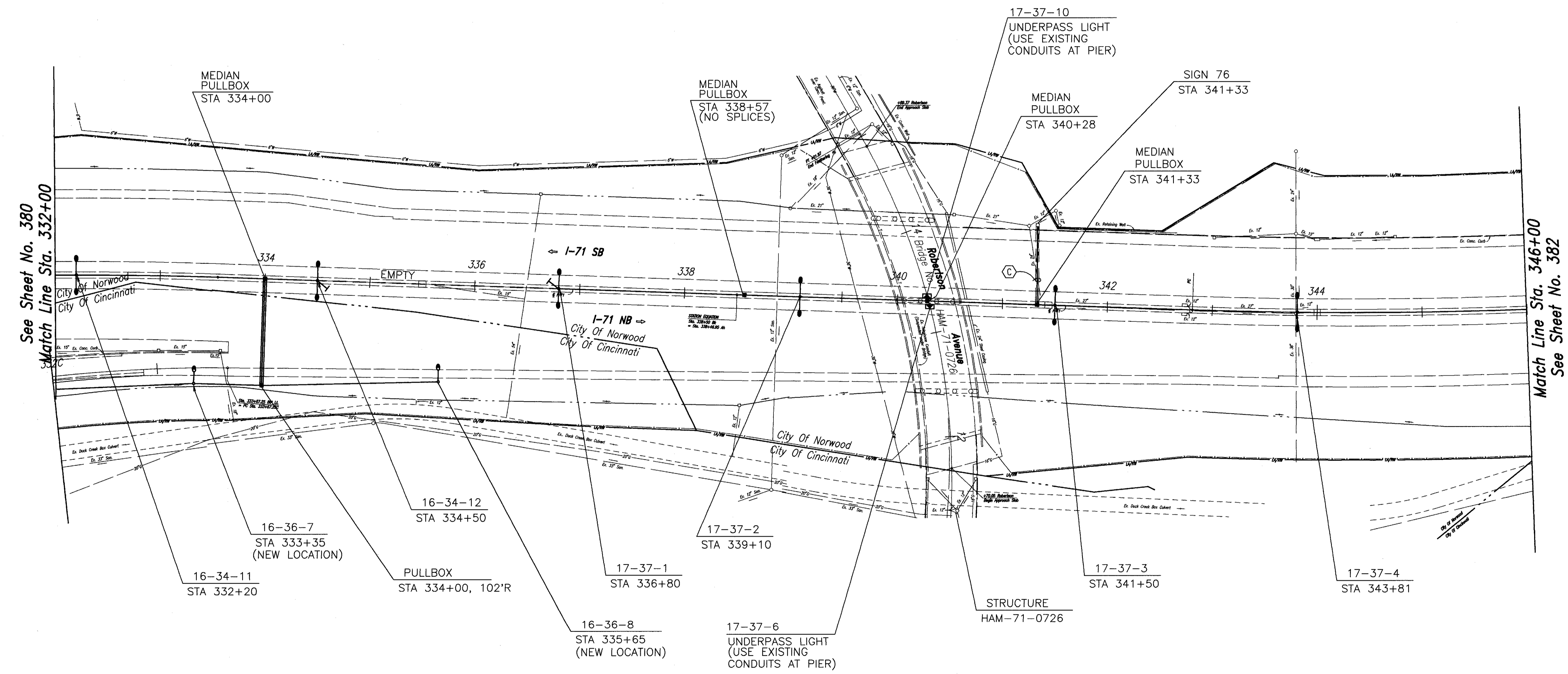
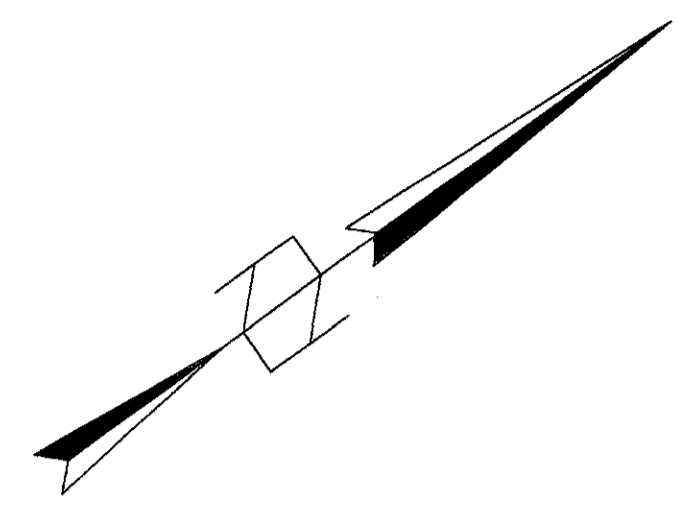
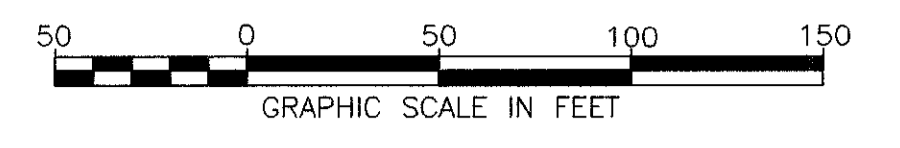
H:\713\29\713R.dwg - DEC. 13, 1997

CALC. BY: LAB
DATE: 6/1/92
CHKD. BY: BAP
DATE: 9/15/92

HAM-71-2.92

OHIO
FHWA
REGION 5

381
615



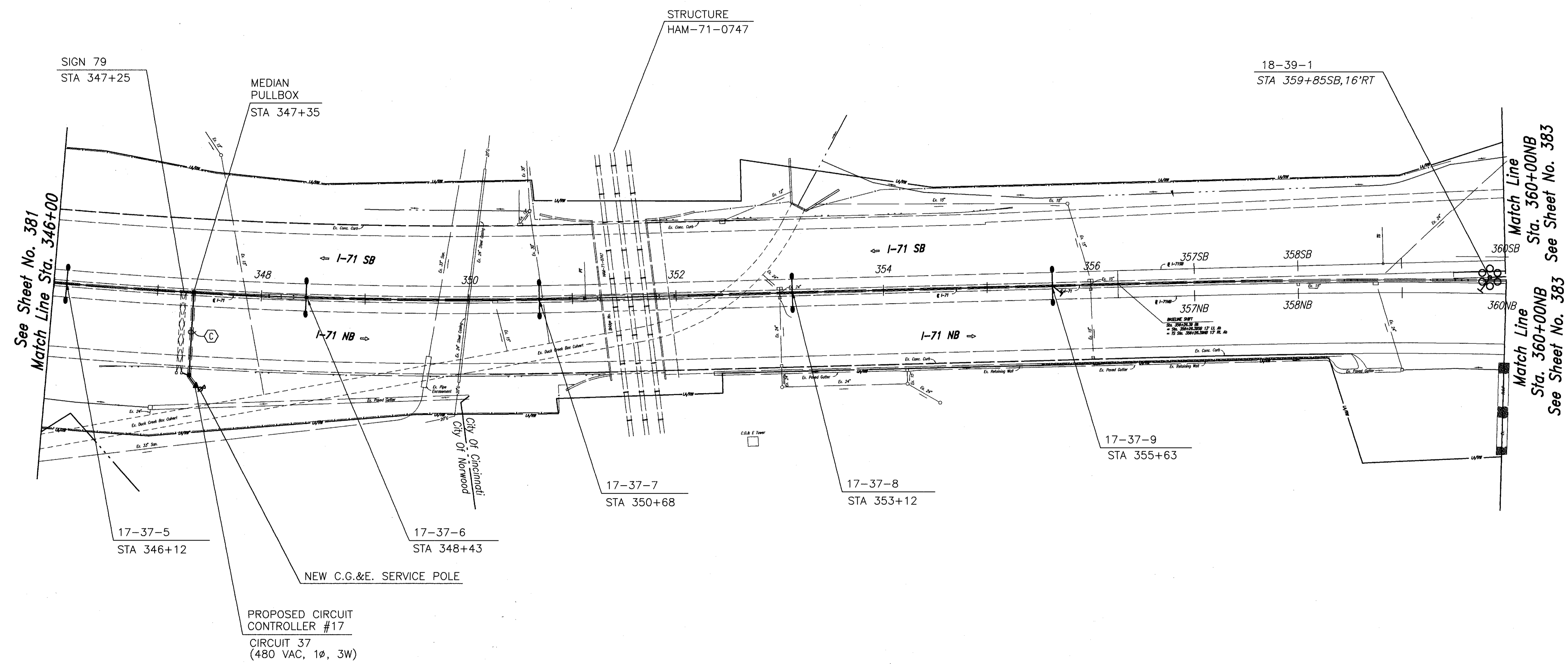
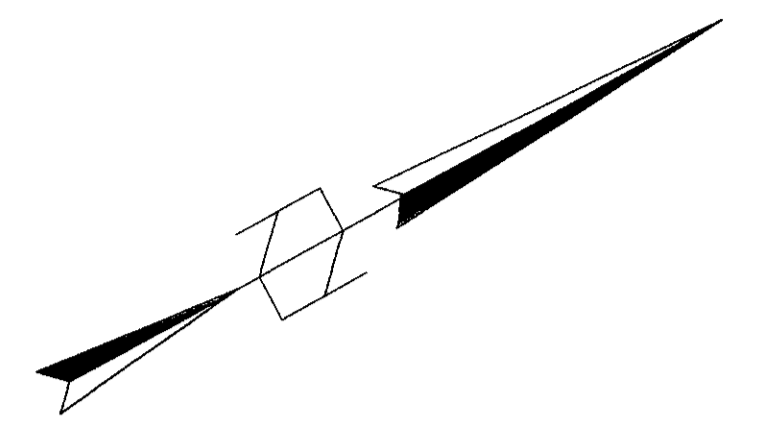
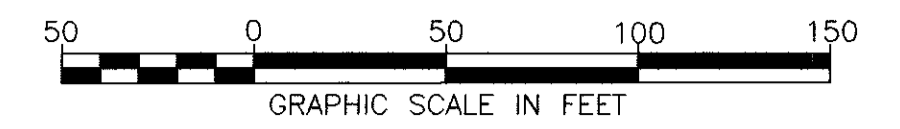
HA 212.92A (07)17.dwg - DEC. 16, 1991

CALC. BY: KGB
DATE: 6/27/95
CHKD. BY: BAP
DATE: 9/15/95

HAM-71-2.92

OHIO
FHWA REGION 5

382
615



See Sheet No. 381
Match Line Sta. 346+00

Match Line
Sta. 360+00NB
See Sheet No. 383

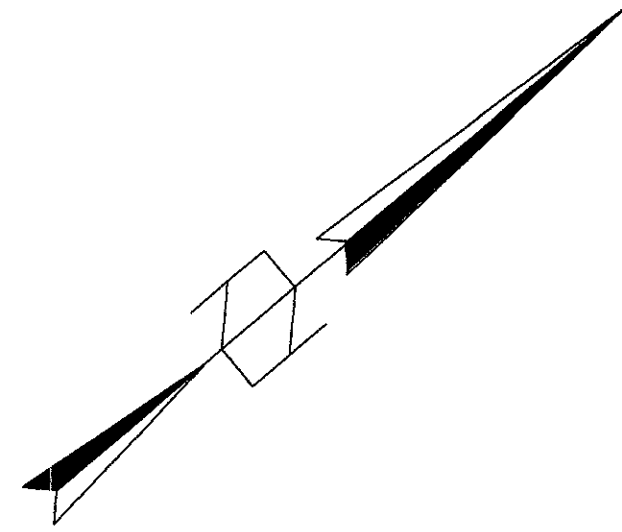
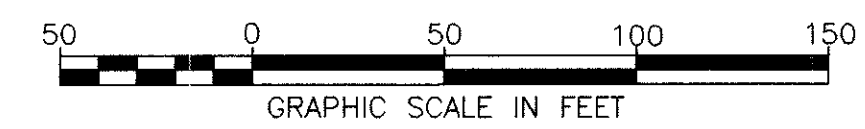
HAUTV 0.02/10/16/95 - REC. 18, 1991

CALC. BY: *KES*
DATE: *6/27/95*
CHKD. BY: *BAP*
DATE: *9/15/95*

HAM-71-2.92

OHIO
FHWA
REGION 5

383
615



STRUCTURE
HAM-71-0319S

See Sheet No. 393
Match Line
Sta. 12+00E

(CONDUIT SLEEVE UNDER TRACK)

EXISTING C.G.&E.
SERVICE POLE

PULLBOX
STA 361+45 SB
(NO SPLICES)

CONTROL CENTER NO. 18 (PROPOSED)
CIRCUITS 39, 40 - (ALL #2 AWG)
(480 VAC, 1Ø, 3W)

STRUCTURE
HAM-71-0764

See Sheet No. 382
Match Line Sta. 360+00NB
and Sta. 360+00SB

Match Line
Sta. 374+00SB
See Sheet No. 384

Match Line
Sta. 374+00NB
See Sheet No. 384
Match Line
Sta. 6+00F
See Sheet No. 394

Ex. Duck Creek Channel

Ramp E

Ex. Duck Creek Box Culvert

(TYP)

18-39-2, PULLBOX
STA 364+10SB, 45'R

18-40-1
STA 368+56SB, 59'R

SIGN NO. 86
STA 370+20NB

PULLBOX
STA 368+20

PULLBOX
STA 370+30, 78'R

PULLBOX
STA 370+60NB, 65'L

18-40-2
STA 373+05SB, 81'R

PULLBOX
STA 362+30NB, 14'L

SIGN NO. 83
STA 362+15NB

PULLBOX
STA 361+45SB, 14'R

PULLBOX
STA 361+45 SB
(NO SPLICES)

CONTROL CENTER NO. 18 (PROPOSED)
CIRCUITS 39, 40 - (ALL #2 AWG)
(480 VAC, 1Ø, 3W)

STRUCTURE
HAM-71-0764

362NB
I-71 NB

364SB

366SB

368SB

372SB

368NB
I-71 NB

370NB

372NB

Ramp F

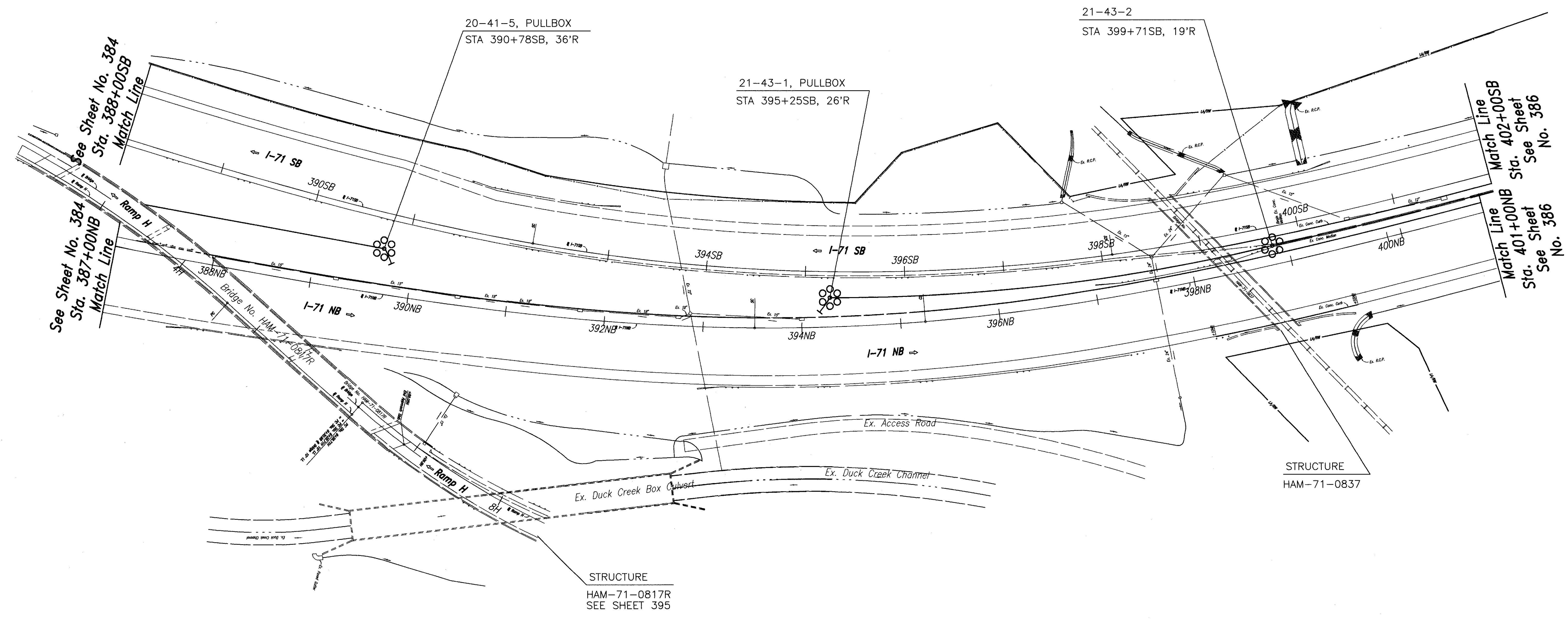
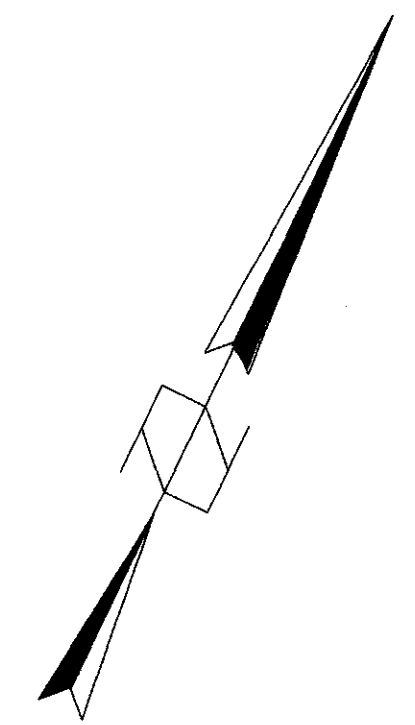
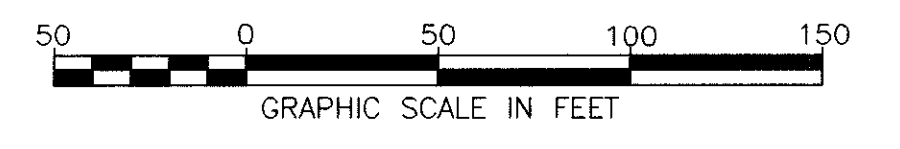
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CALC. BY: KRB
DATE: 4/27/93
CHKD. BY: BPP
DATE: 9/15/93

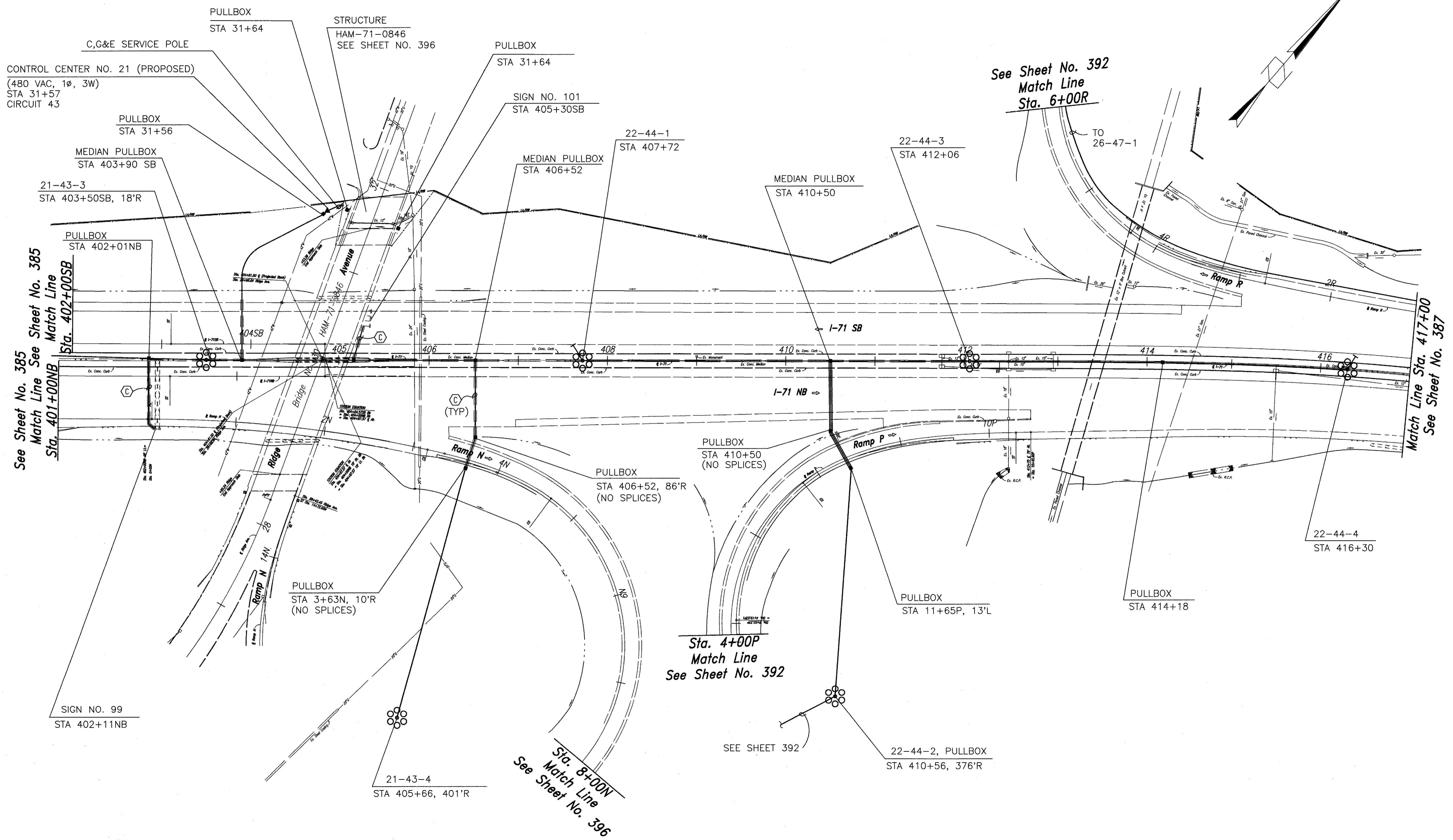
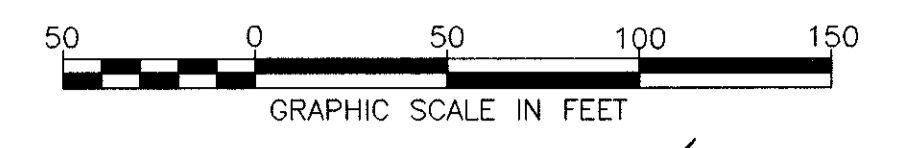
HAM-71-2.92

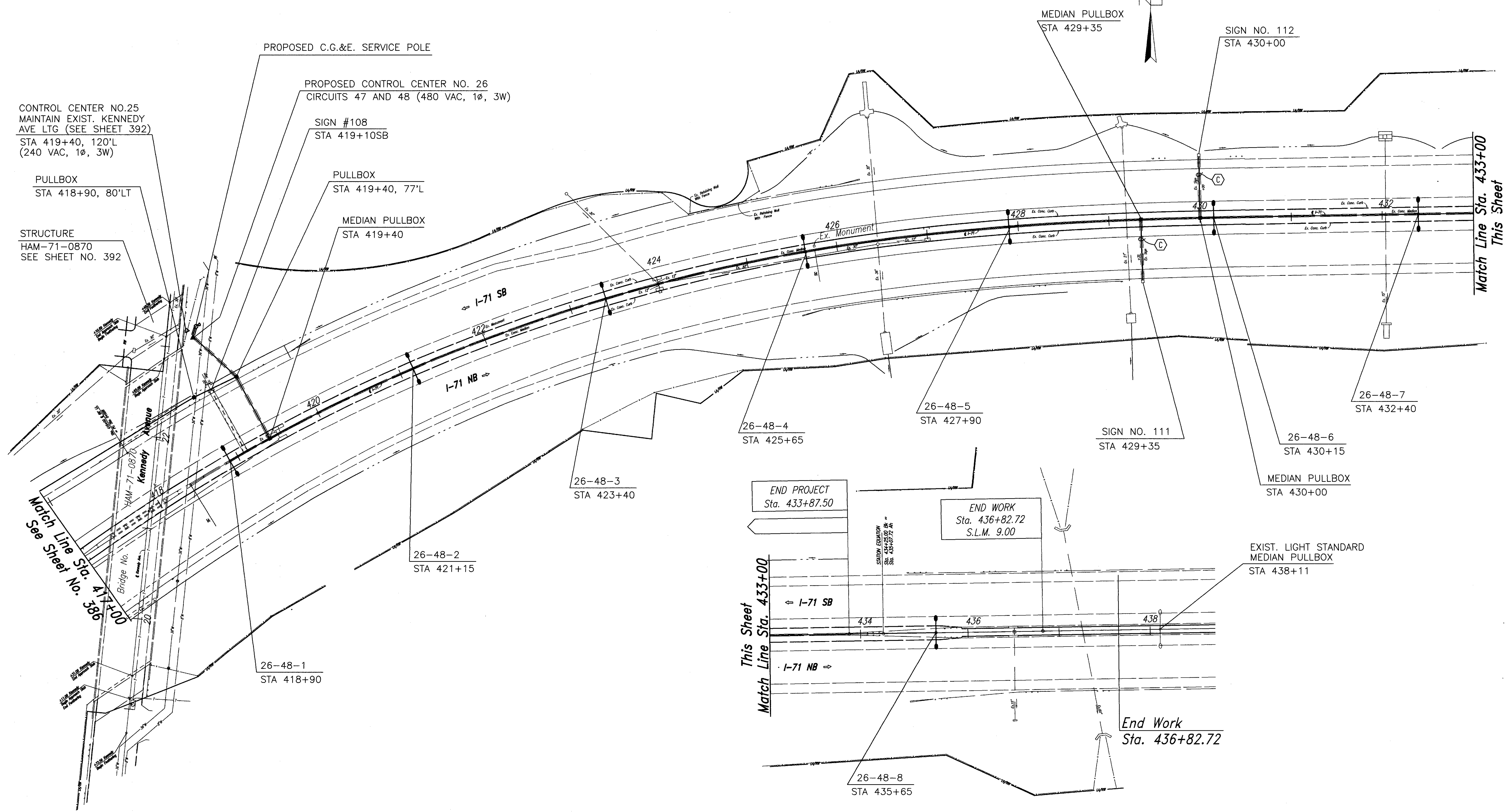
OHIO
FHWA REGION 5

385
615



HAM-71-2.92



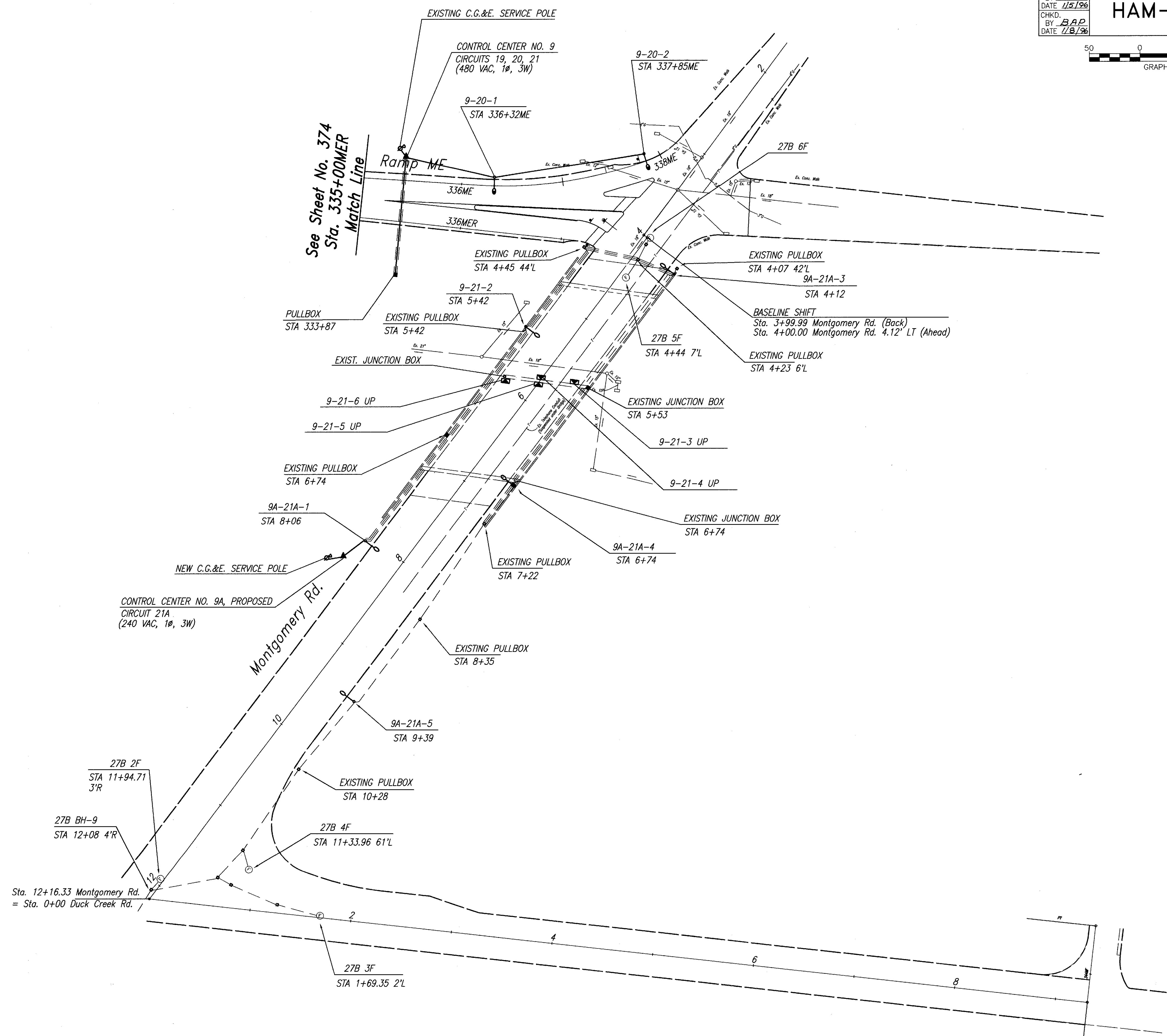
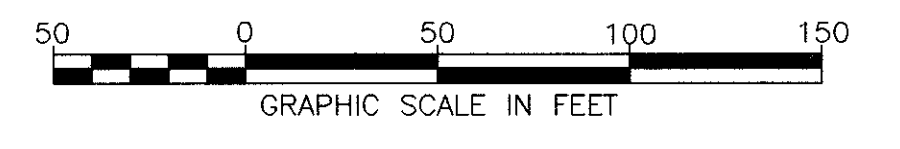


CALC. BY: **KRB**
DATE: **1/5/96**
CHKD. BY: **BAP**
DATE: **1/8/96**

HAM-71-2.92

OHIO
FHWA
REGION 5

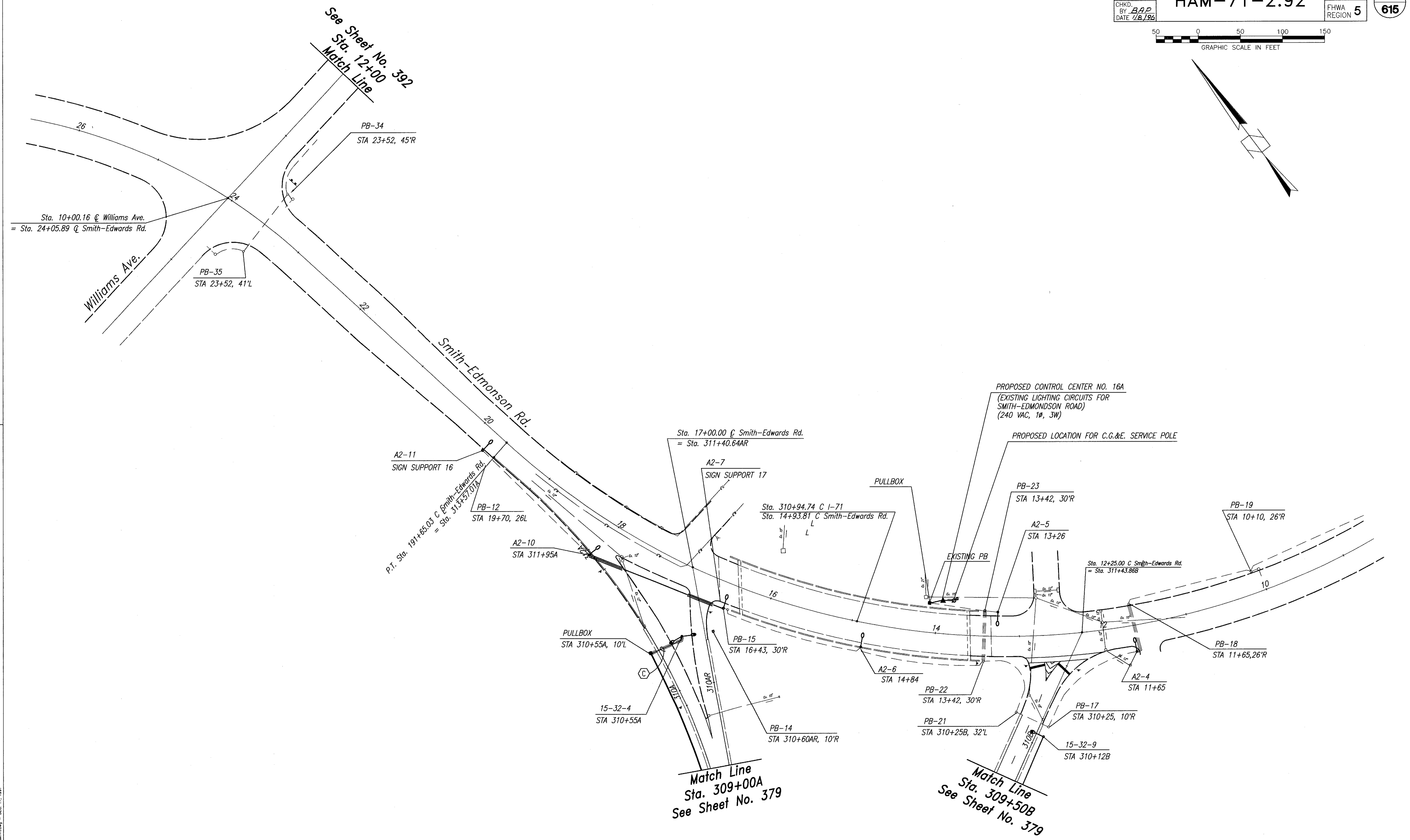
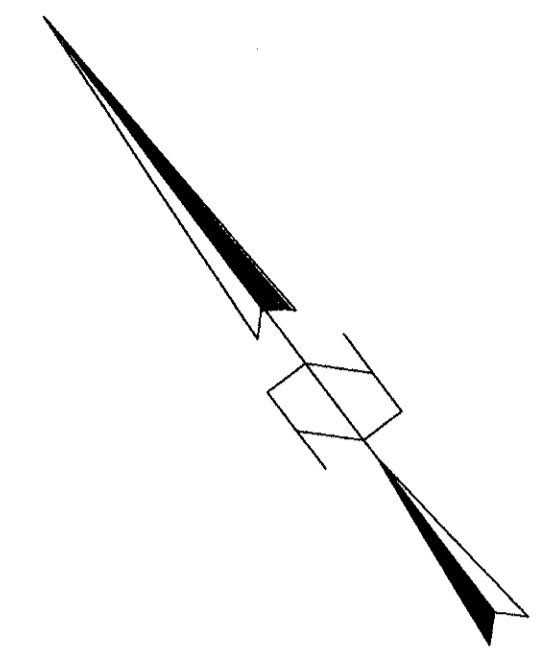
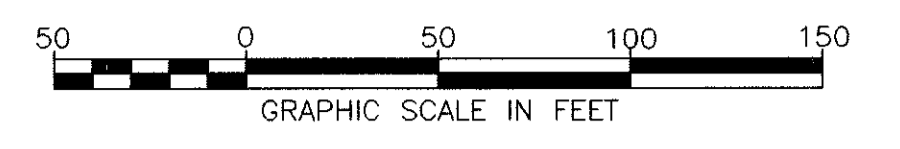
388
615



H:\71\2\20\MONT.dwg - OCT. 28, 1991

Montgomery Rd.

HAM-71-2.92



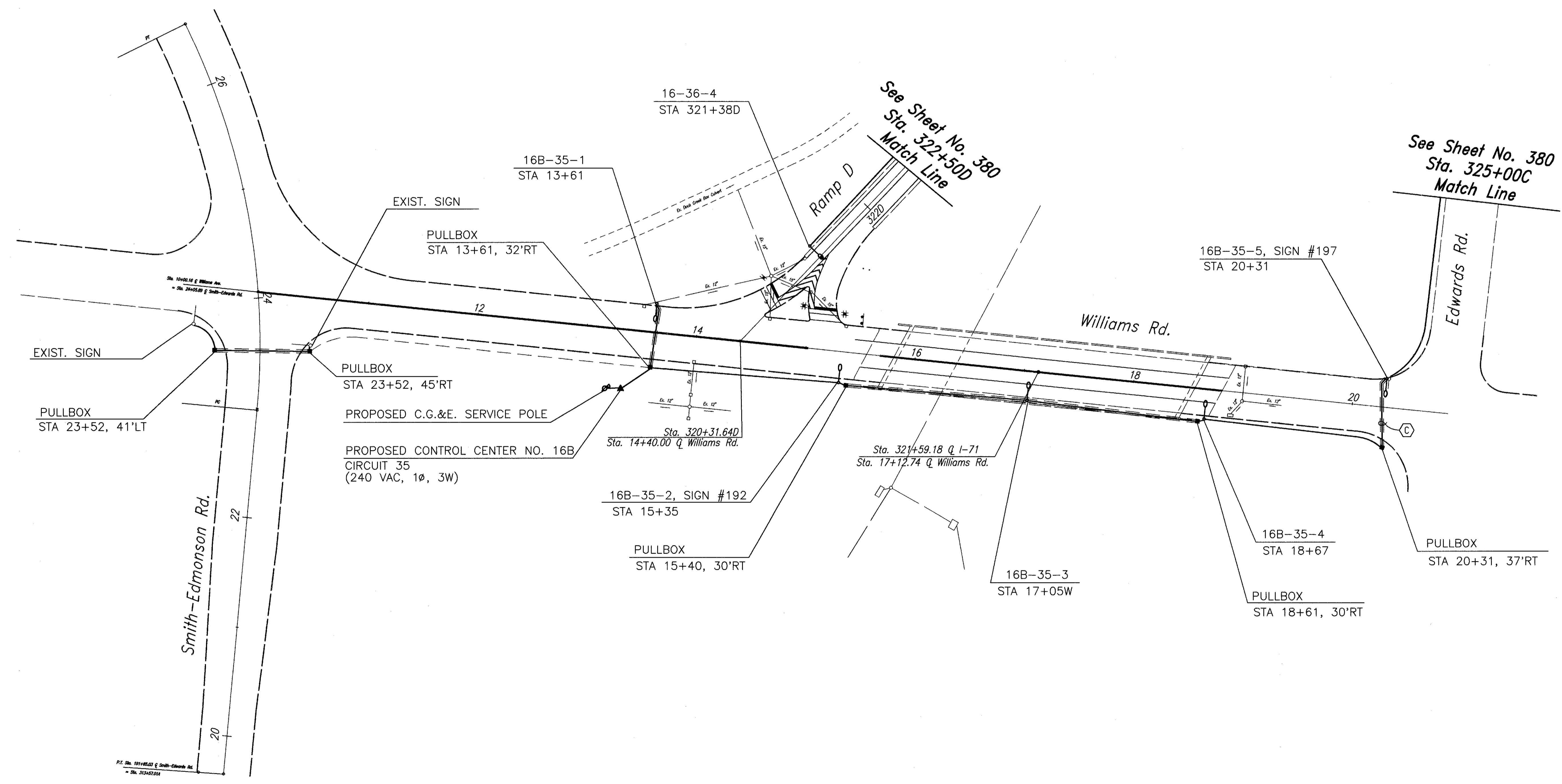
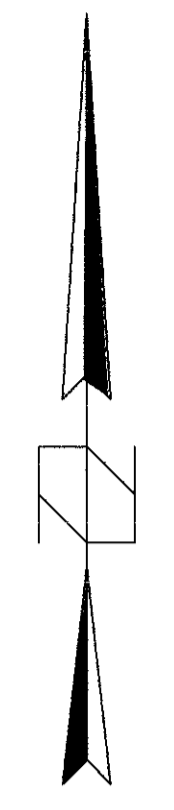
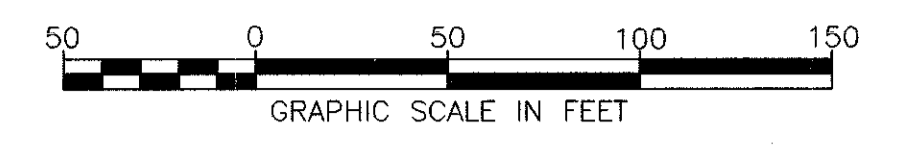
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DATE: *1/5/96*
CHKD. BY: *BAD*
DATE: *1/8/96*

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OHIO
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REGION 5

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H:\V12\25\WILLIAMS.dwg - DEC 13, 1995

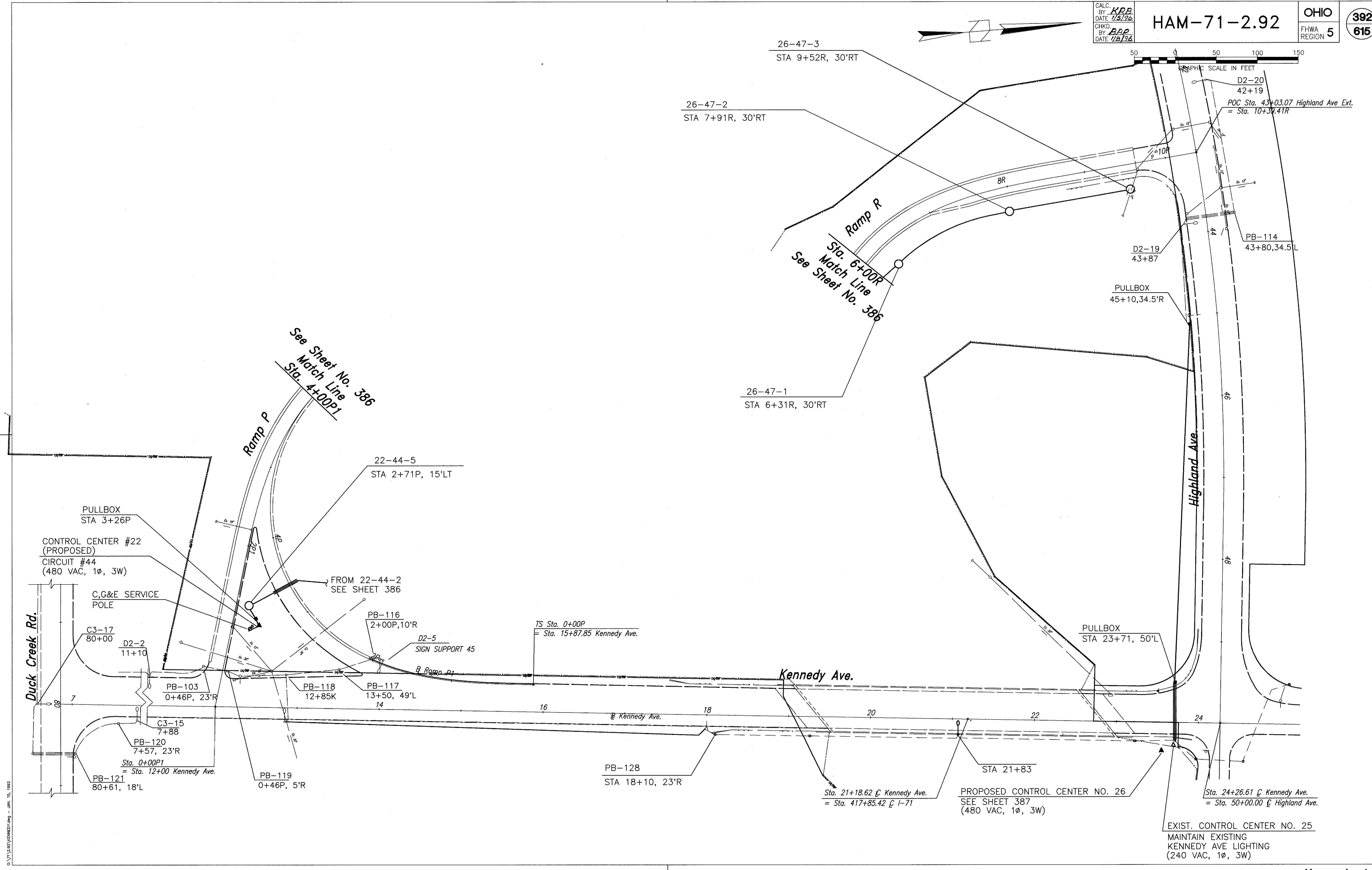
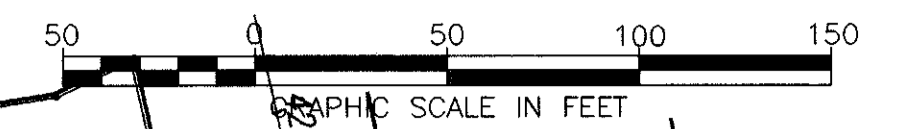
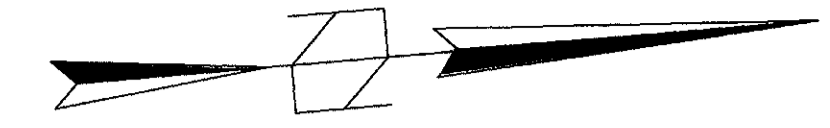
Williams Ave.

CALC. BY *KRB*
DATE *1/5/94*
CHKD. BY *BAP*
DATE *1/8/94*

HAM-71-2.92

OHIO
FHWA
REGION 5

392
615



26-47-3
STA 9+52R, 30'RT

26-47-2
STA 7+91R, 30'RT

26-47-1
STA 6+31R, 30'RT

See Sheet No. 386
Match Line
Sta. 4+00P1

Ramp P

Ramp R

Sta. 6+00R
Match Line
See Sheet No. 386

22-44-5
STA 2+71P, 15'LT

PULLBOX
STA 3+26P

CONTROL CENTER #22
(PROPOSED)
CIRCUIT #44
(480 VAC, 1Ø, 3W)

C,G&E SERVICE
POLE

C3-17
80+00
D2-2
11+10

PB-103
0+46P, 23'R

C3-15
7+88
PB-120
7+57, 23'R

Sta. 0+00P1
= Sta. 12+00 Kennedy Ave.
PB-121
80+61, 18'L

PB-119
0+46P, 5'R

FROM 22-44-2
SEE SHEET 386

PB-116
2+00P, 10'R

D2-5
SIGN SUPPORT 45

PB-118
12+85K

PB-117
13+50, 49'L

TS Sta. 0+00P
= Sta. 15+87.85 Kennedy Ave.

Kennedy Ave.

PB-128
STA 18+10, 23'R

Sta. 21+18.62 C Kennedy Ave.
= Sta. 417+85.42 C I-71

PROPOSED CONTROL CENTER NO. 26
SEE SHEET 387
(480 VAC, 1Ø, 3W)

STA 21+83

PULLBOX
STA 23+71, 50'L

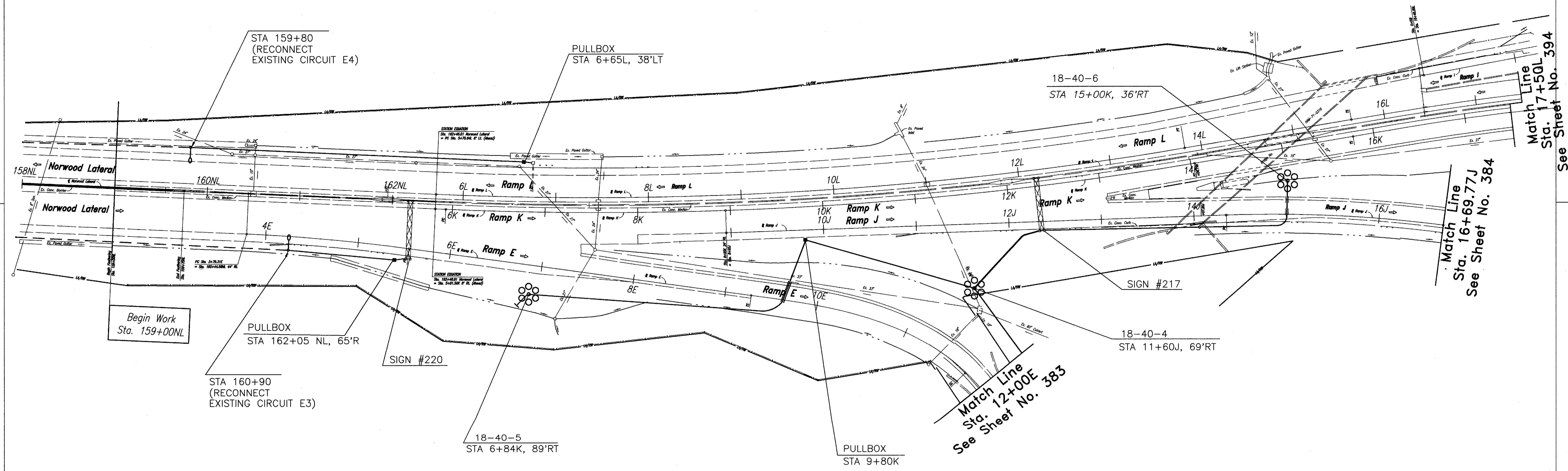
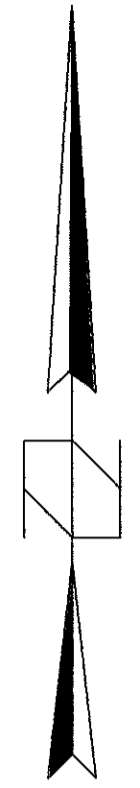
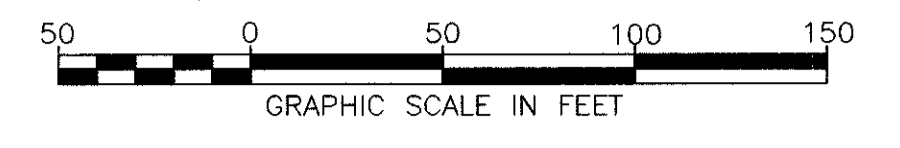
Sta. 24+26.61 C Kennedy Ave.
= Sta. 50+00.00 C Highland Ave.

EXIST. CONTROL CENTER NO. 25
MAINTAIN EXISTING
KENNEDY AVE LIGHTING
(240 VAC, 1Ø, 3W)

Highland Ave.

Kennedy Ave.

© 1994 BY KENNEDY CONSULTANTS, INC. - JAN. 15, 1992



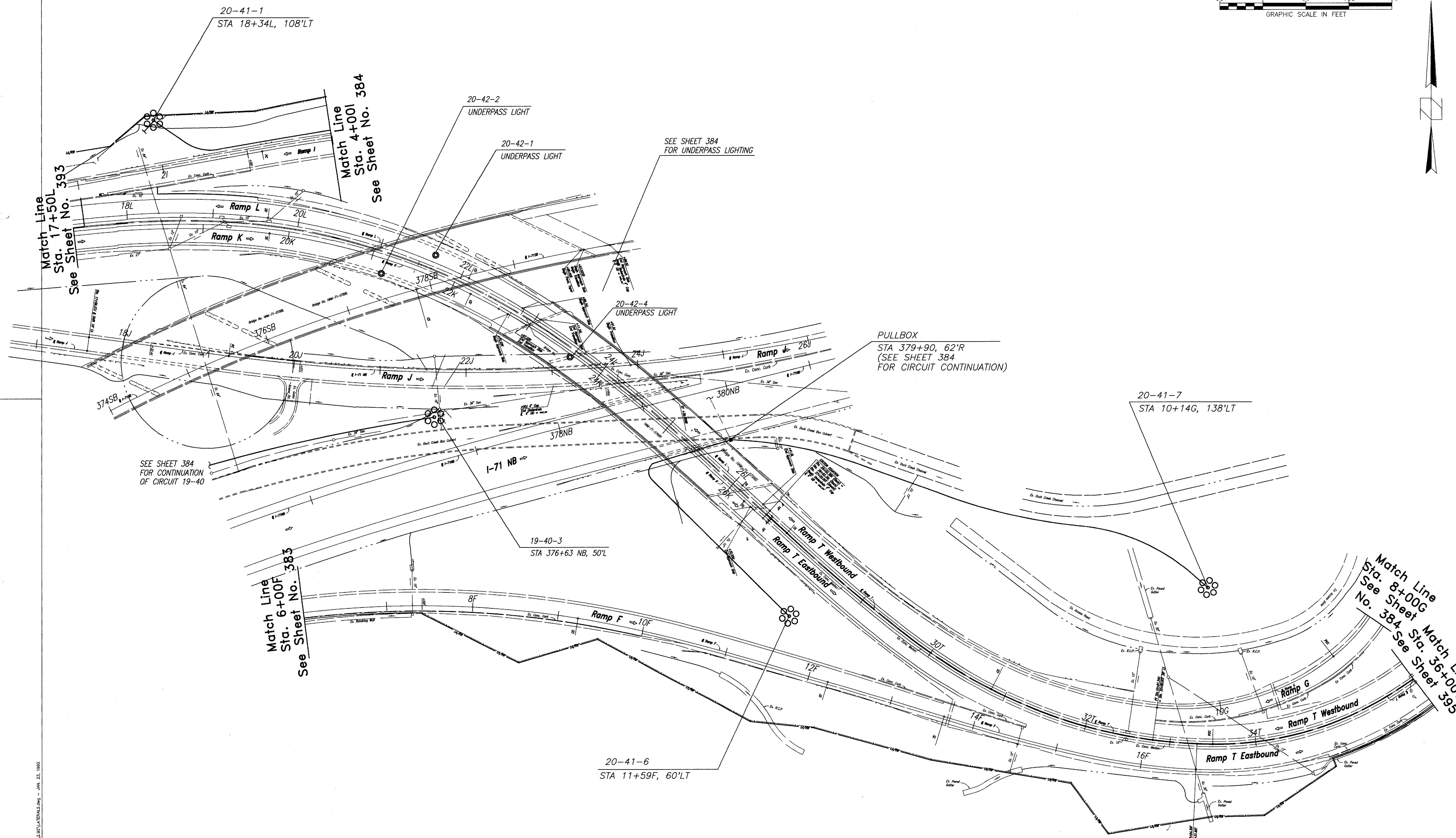
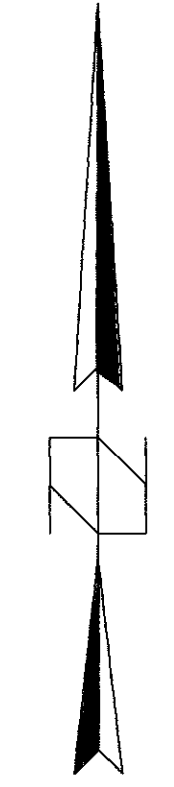
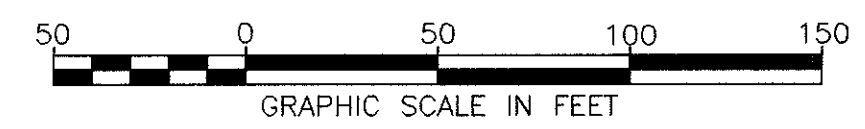
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CALC. BY: KES
DATE: 6/27/82
CHKD. BY: BAP
DATE: 9/15/83

HAM-71-2.92

OHIO
FHWA REGION 5

394
615



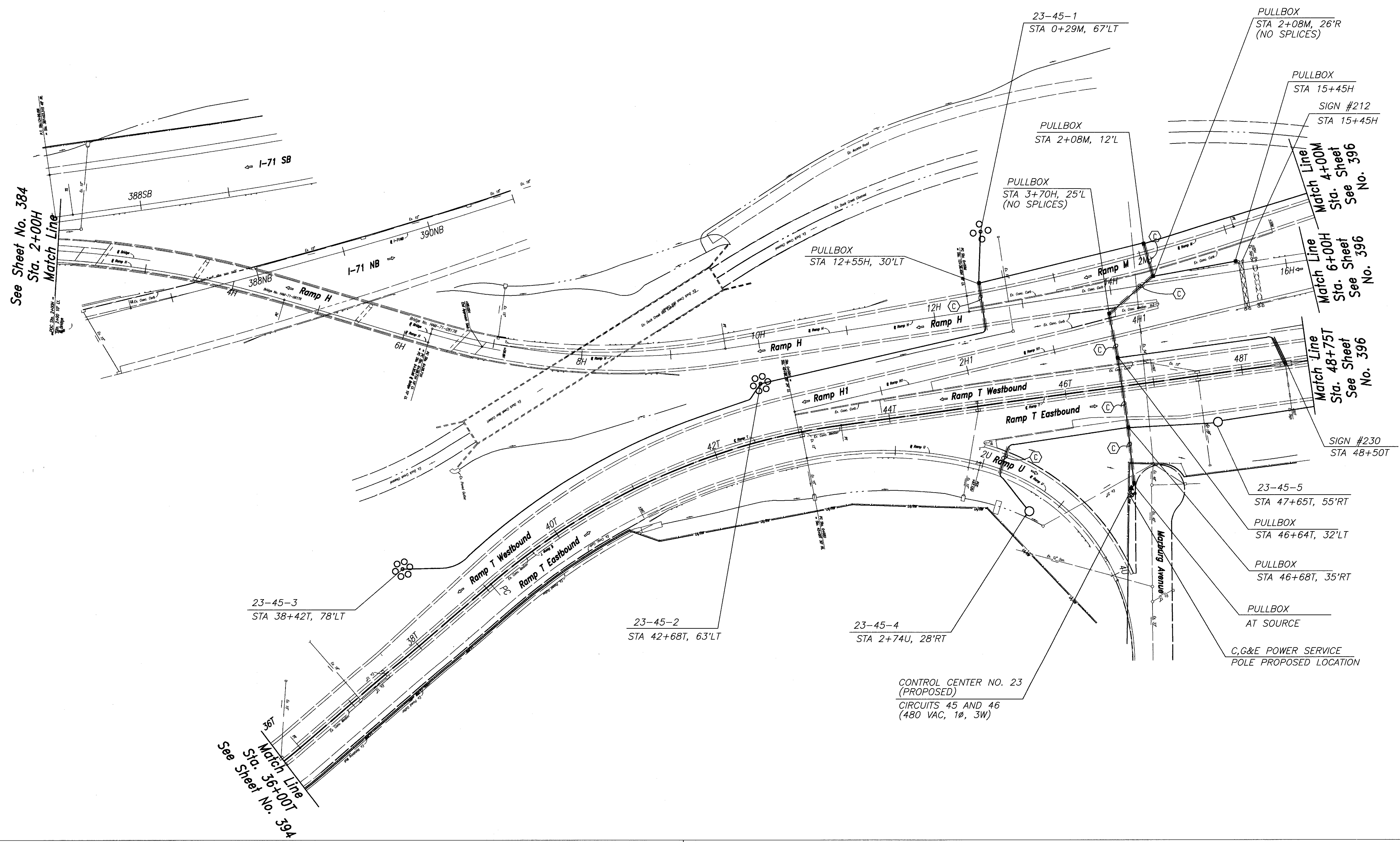
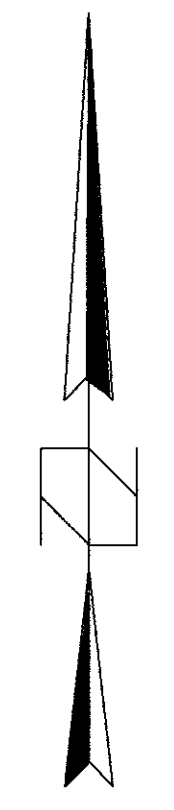
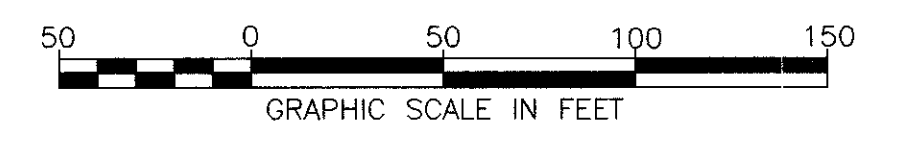
6/13/82 LATERAL 2.dwg - JUN. 23, 1982

CALC. BY: *KRB*
DATE: *7/5/96*
CHKD. BY: *BAP*
DATE: *7/8/96*

HAM-71-2.92

OHIO
FHWA REGION 5

396
615

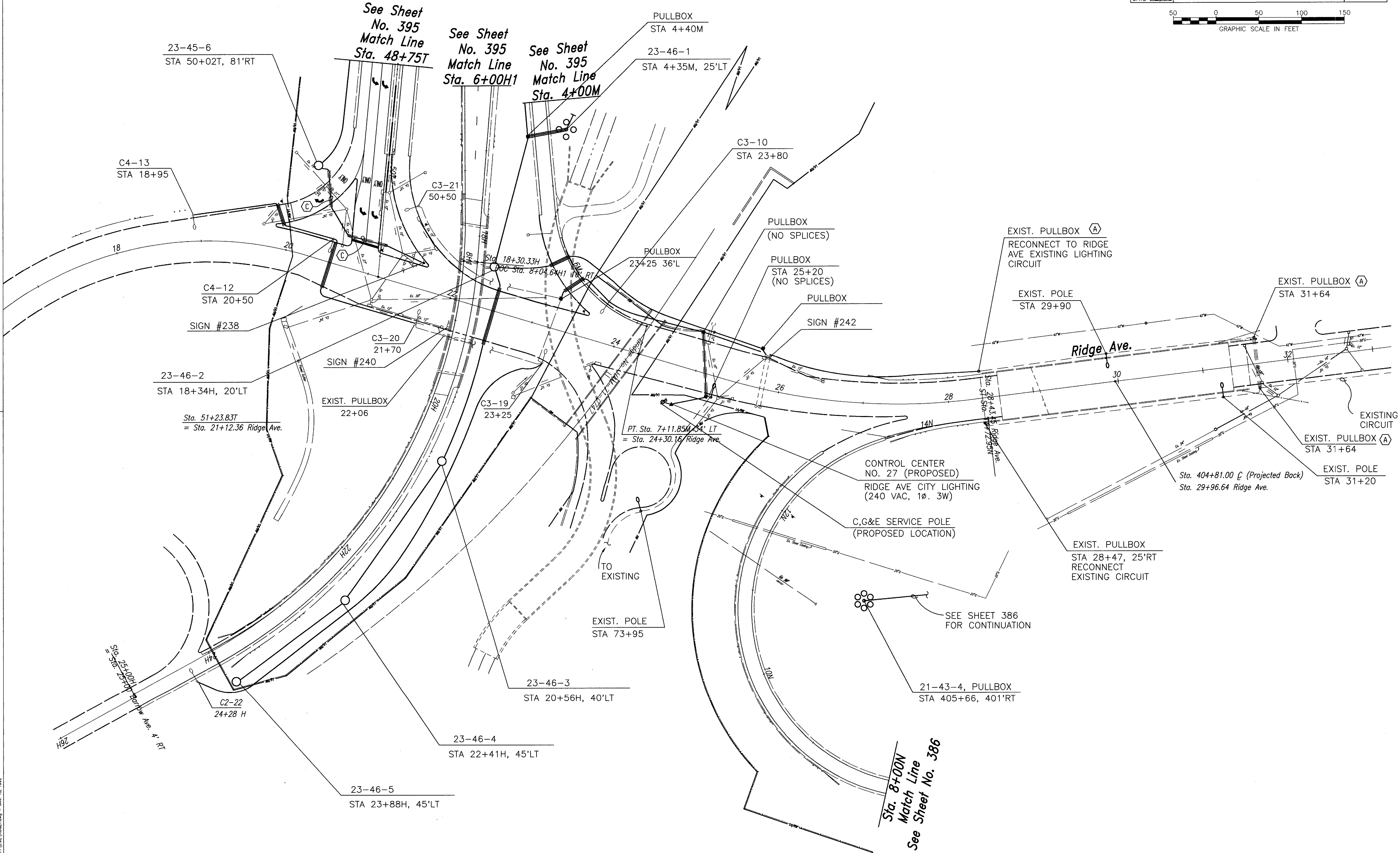
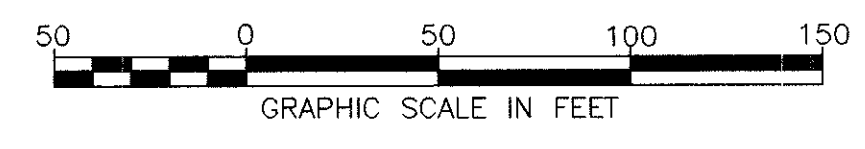


See Sheet No. 384
Sta. 2+00H
Match Line

Match Line
Sta. 36+00T
See Sheet No. 394

Ramps H, H1, M, T, U

STATE OF OHIO
DIVISION OF HIGHWAYS
JAN. 17, 1992



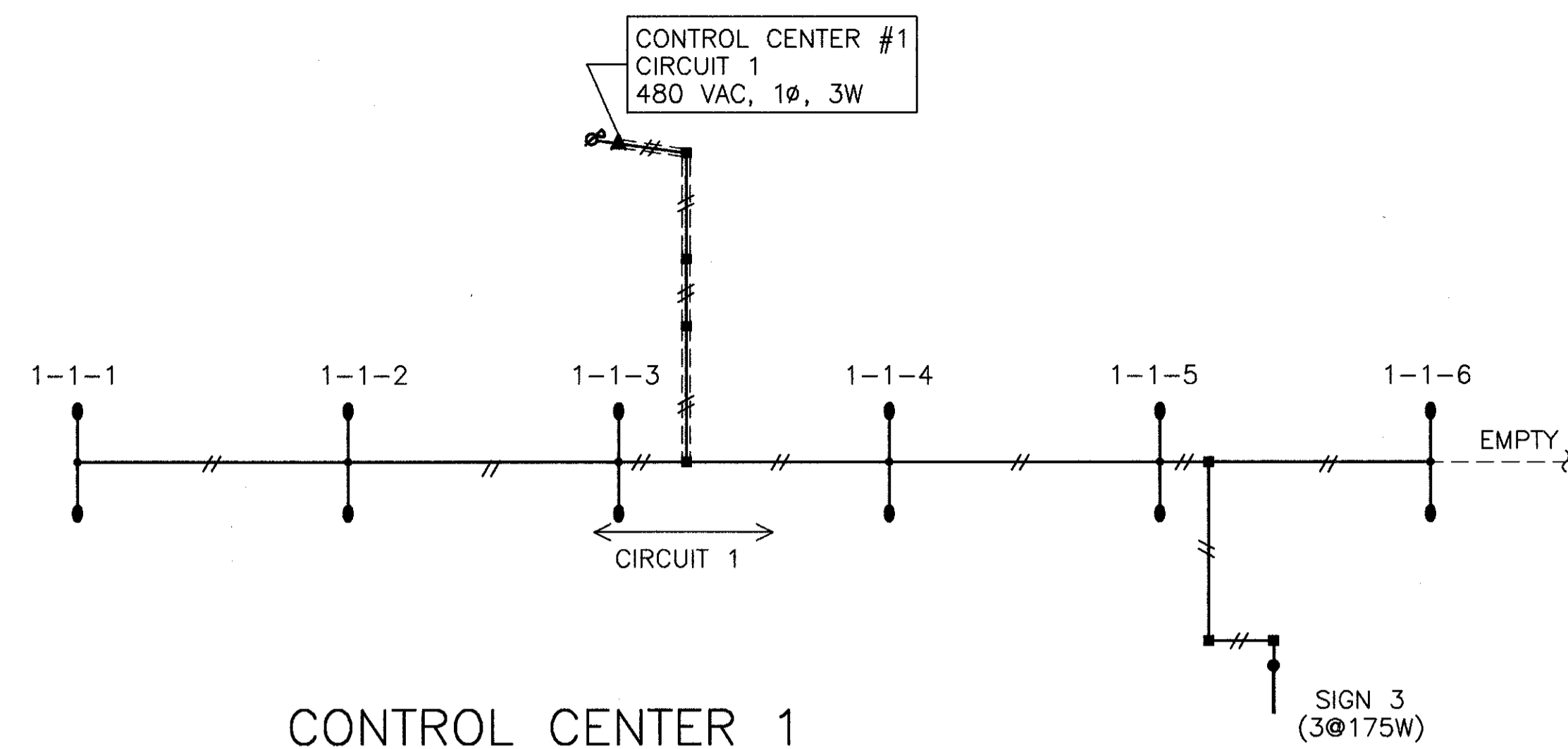
© 1995, PERIODICALS, INC. - JAN. 15, 1995

CALC. BY: KRB
 DATE: 1/5/96
 CHKD. BY: SAP
 DATE: 1/8/96

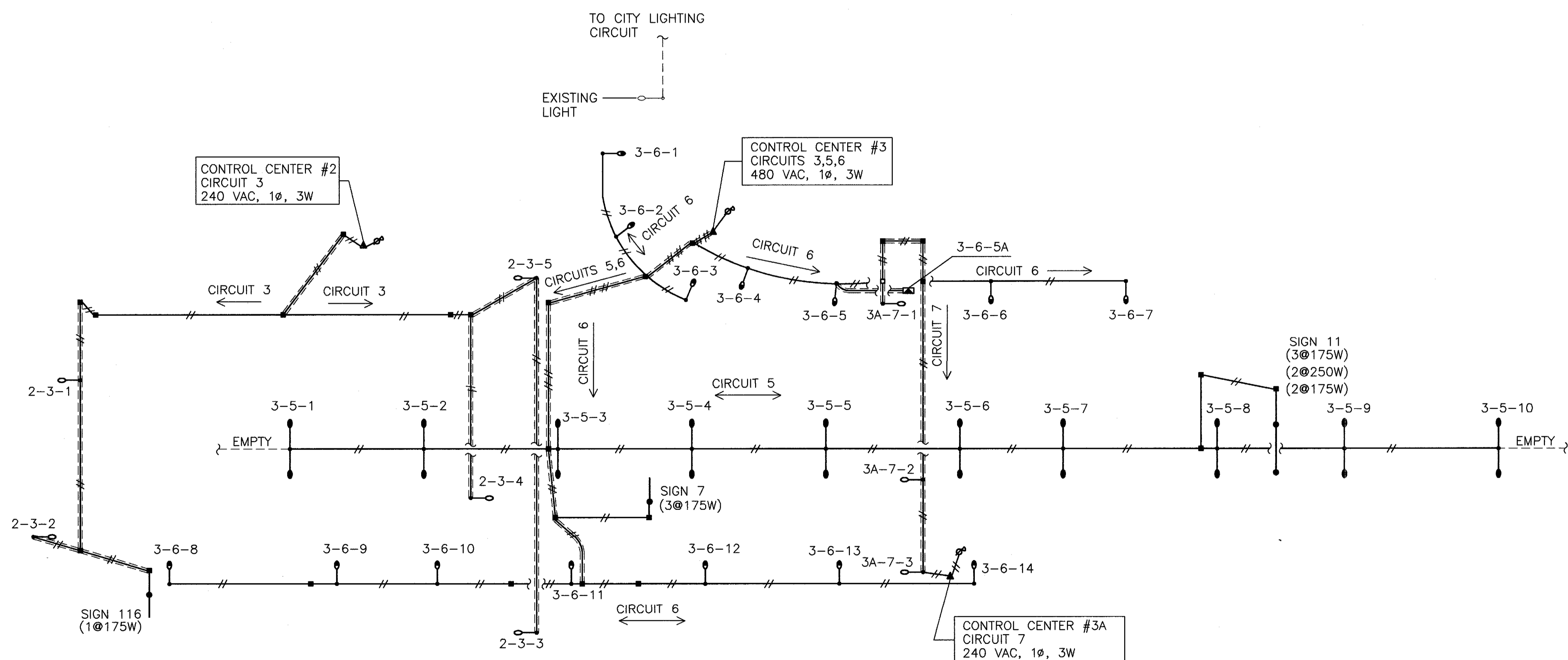
HAM-71-2.92

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 FHWA REGION 5

397
 615

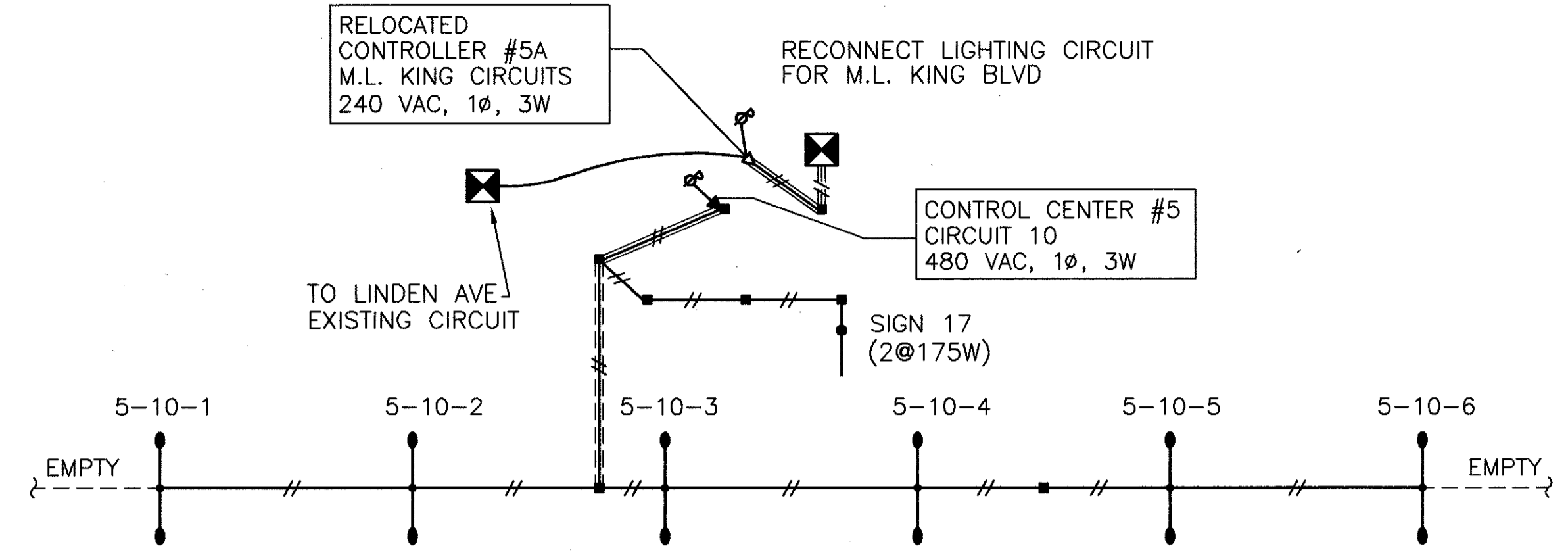


CONTROL CENTER 1
 (CIRCUIT 1)
 (ALL WIRE #4 AWG)

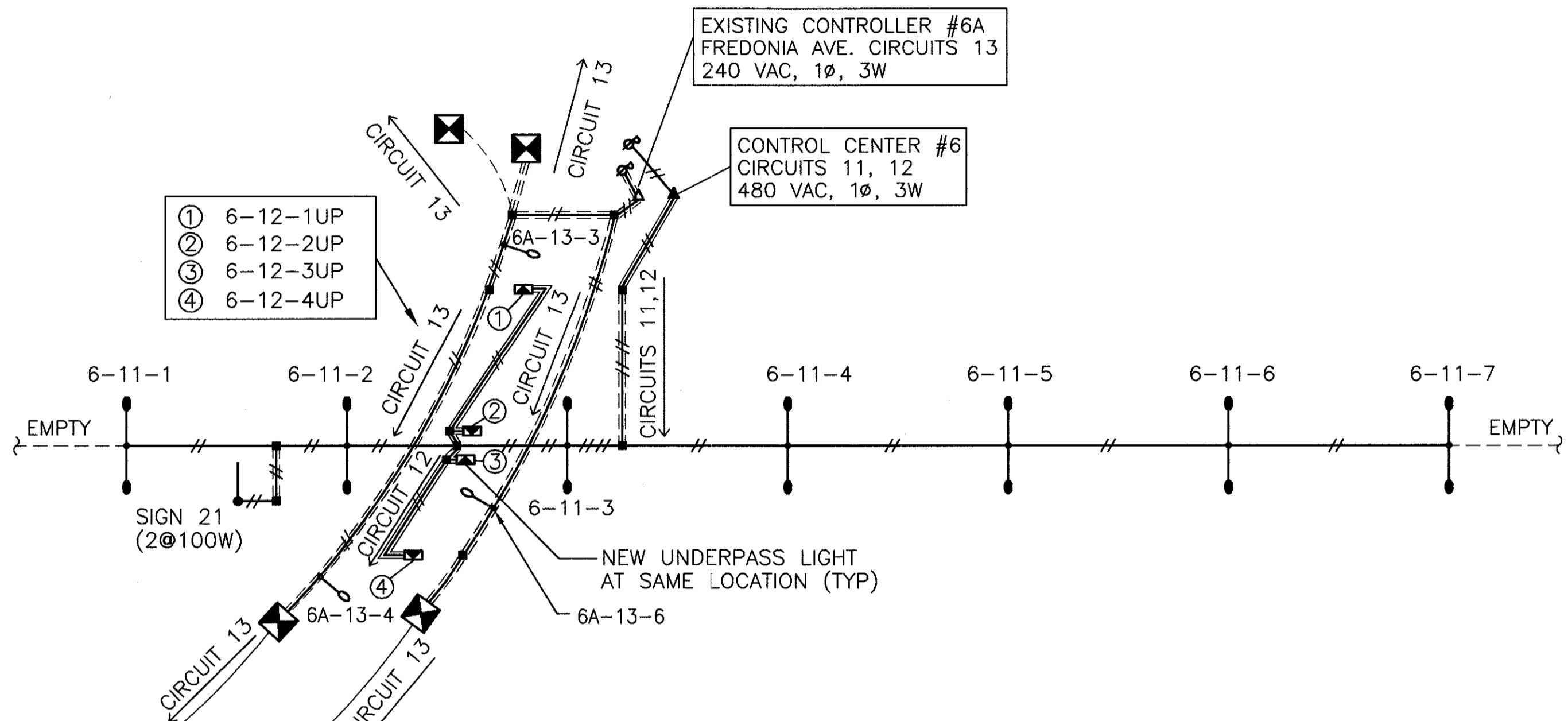


CONTROL CENTERS 2, 3 AND 3A
 (CIRCUITS 3,5,6,7)
 (ALL WIRE #4 AWG)

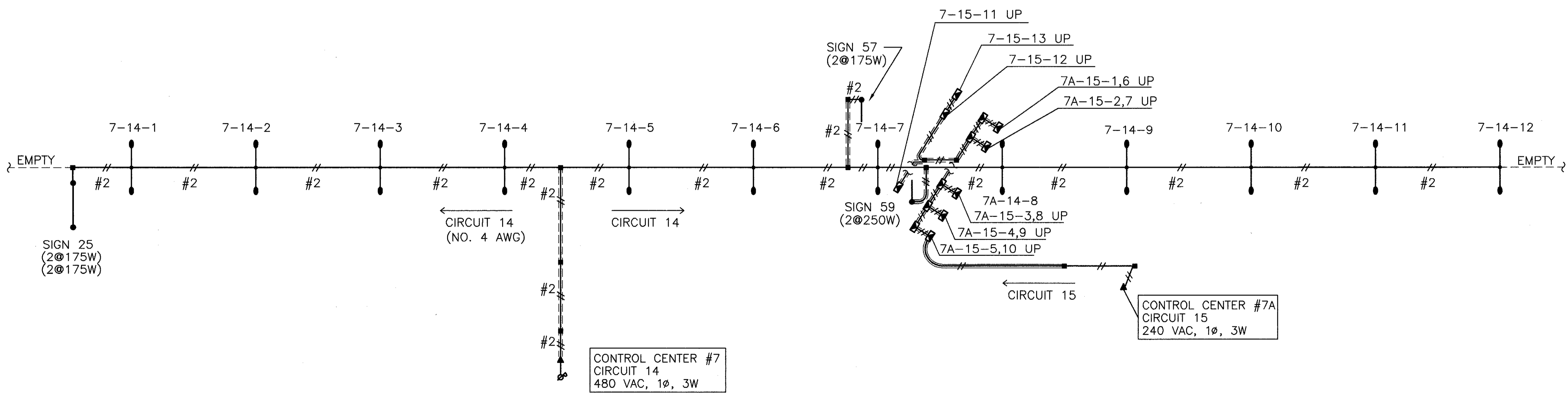
H:\71292\71292.dwg - DEC. 16, 1995



CONTROL CENTERS 5 AND 5A
 (CIRCUIT 10)
 (EXISTING M.L. KING CIRCUIT)
 (ALL WIRE #4 AWG)



CONTROL CENTERS 6 AND 6A
 (CIRCUITS 11, 12)
 (CIRCUIT 13 - EXISTING FREDONIA AVE. LIGHT)
 (ALL WIRE #4 AWG)



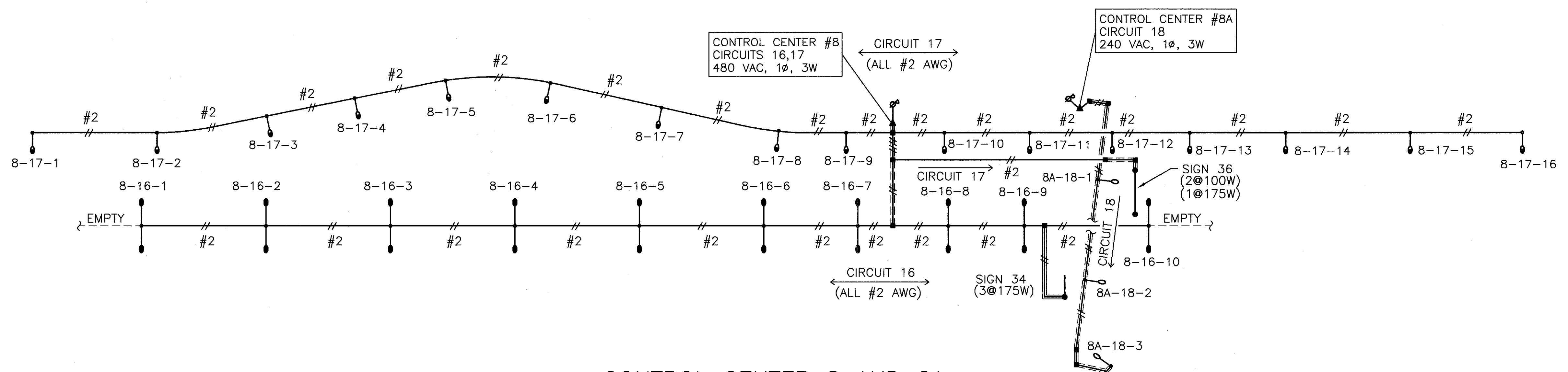
CONTROL CENTERS 7 AND 7A
 (CIRCUITS 14,15)
 (CIRCUIT 14 - ALL #2 AWG WIRE, AS SHOWN)
 (CIRCUIT 15 - ALL #4 AWG WIRE)

CALC. BY: *KRB*
 DATE: *1/5/96*
 CHKD. BY: *BAP*
 DATE: *1/8/96*

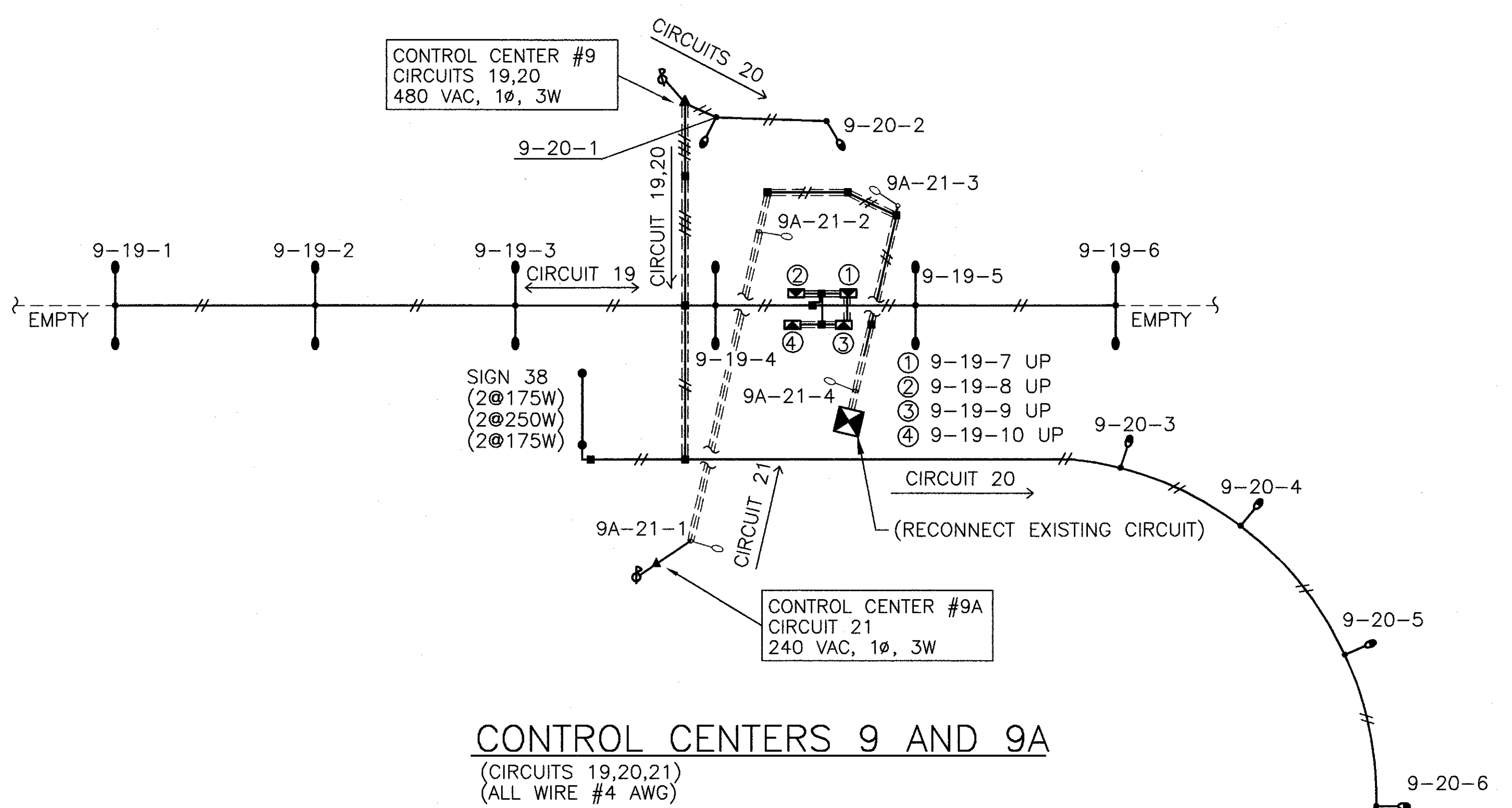
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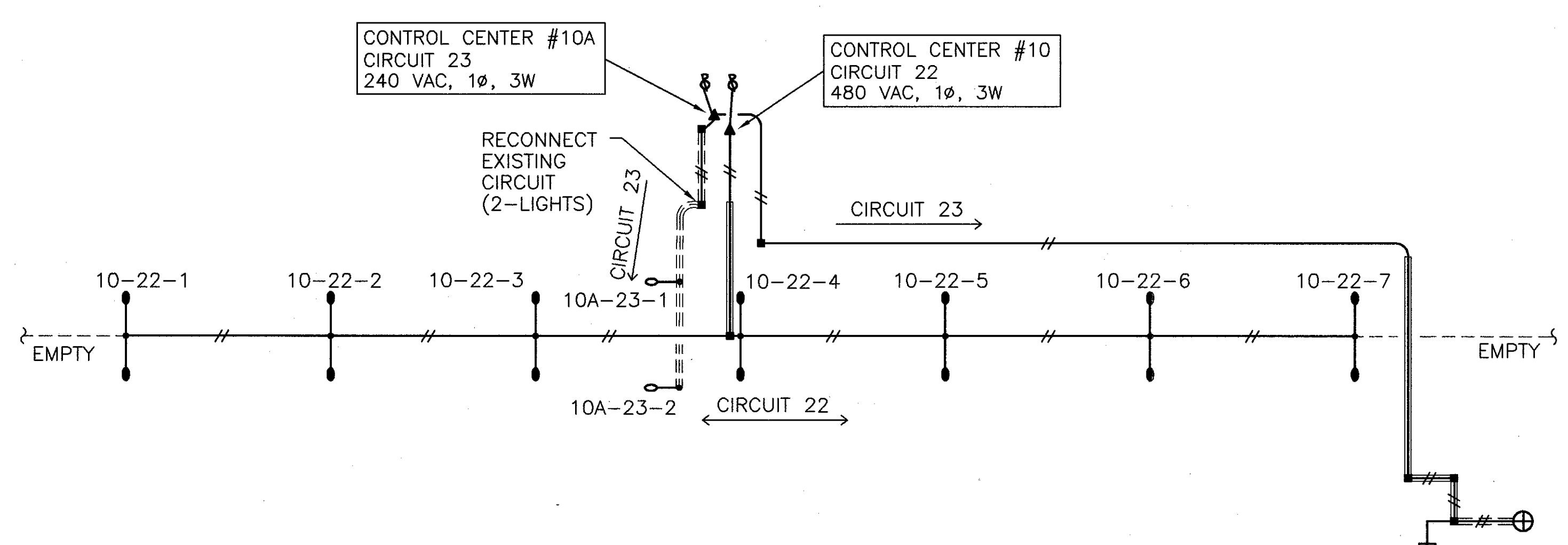
399
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CONTROL CENTER 8 AND 8A
 (CIRCUITS 16,17,18)
 (CIRCUITS 16,17 - ALL #2 AWG WIRE)
 (CIRCUIT 18 - ALL #4 AWG WIRE)



CONTROL CENTERS 9 AND 9A
 (CIRCUITS 19,20,21)
 (ALL WIRE #4 AWG)



CONTROL CENTERS 10 AND 10A
 (CIRCUITS 22,23)
 (ALL WIRE #4 AWG)

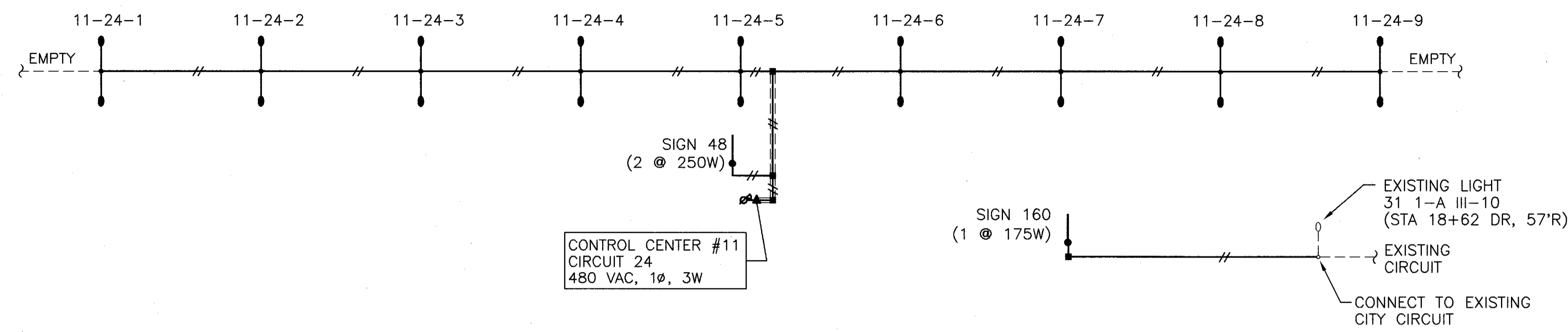
H:\V\240\701.dwg - DEC 16, 1991

CALC. BY KRB
 DATE 1/5/96
 CHKD. BY EAP
 DATE 1/8/96

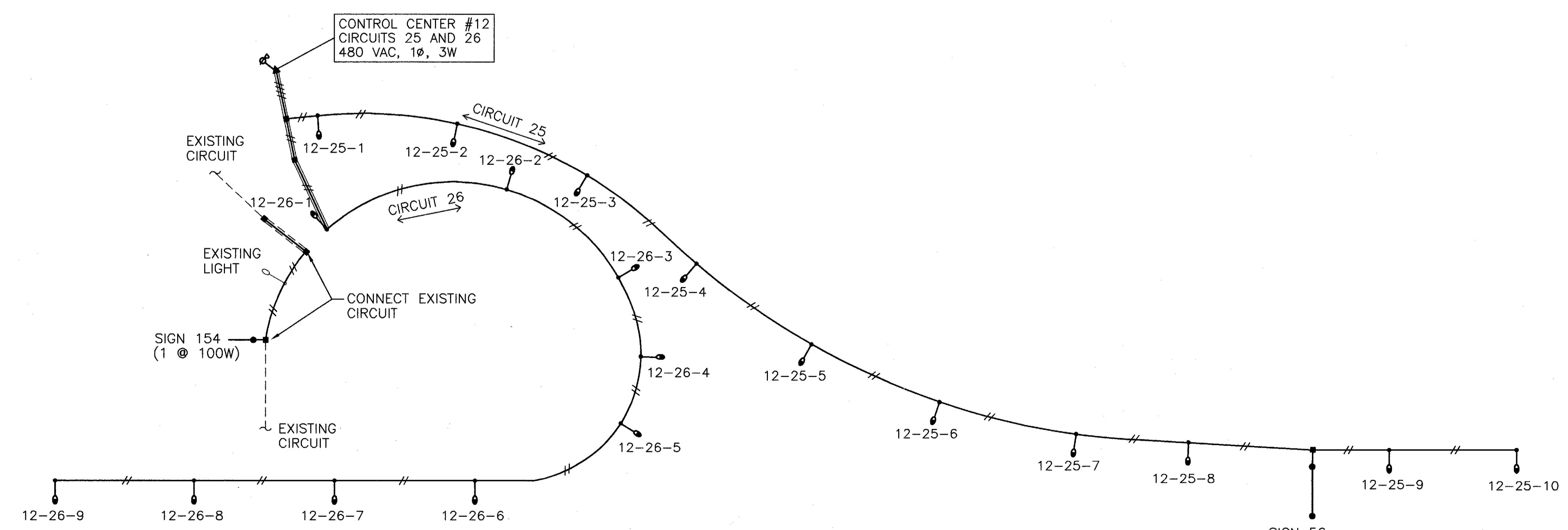
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CONTROL CENTER 11
 (CIRCUIT 24)
 (ALL WIRE #4 AWG)



CONTROL CENTER 12
 (CIRCUIT 25, 26)
 (ALL WIRE #4 AWG)

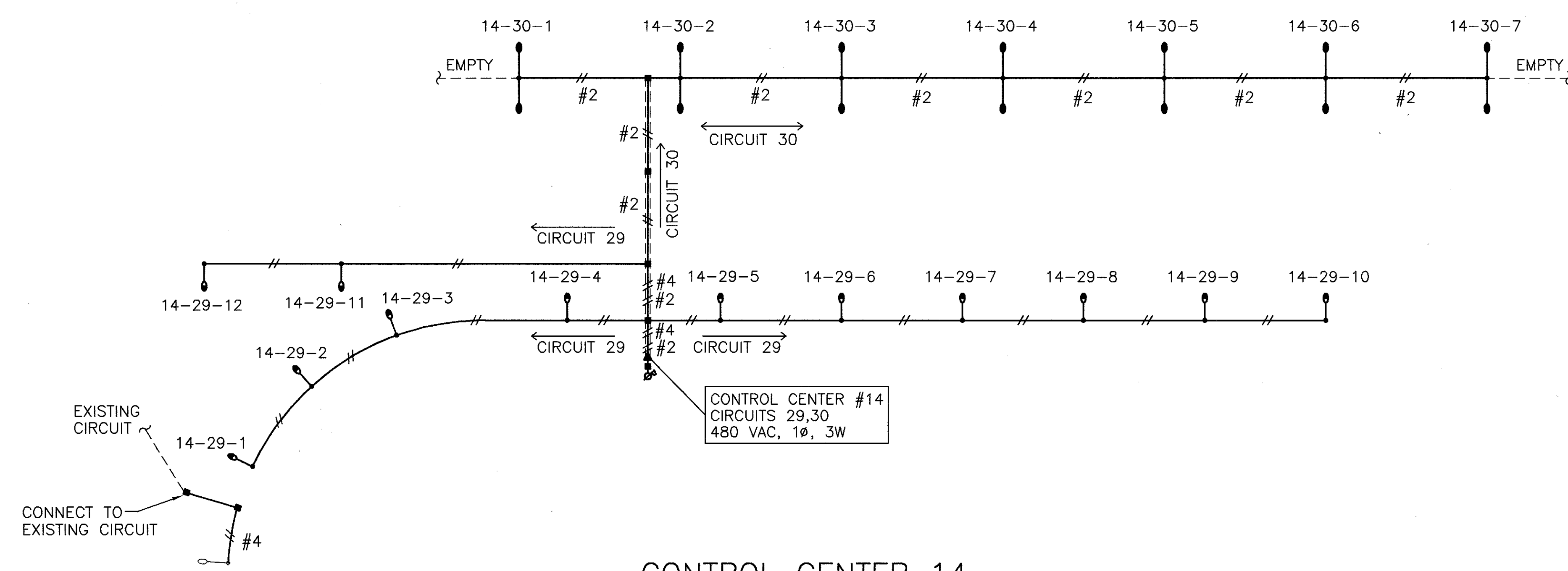
H:\71\292\101.dwg - DEC. 18, 1991

CALC. BY KRB
 DATE 1/5/96
 CHKD. BY BAP
 DATE 1/8/96

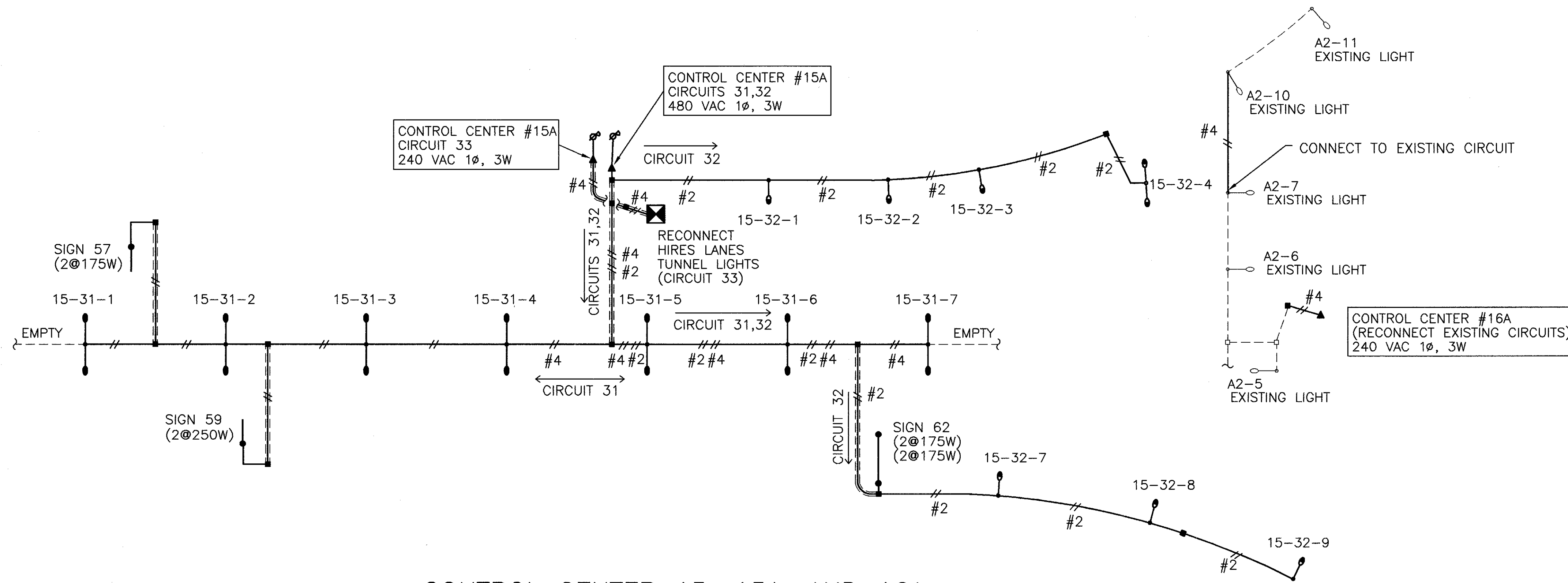
HAM-71-2.92

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401
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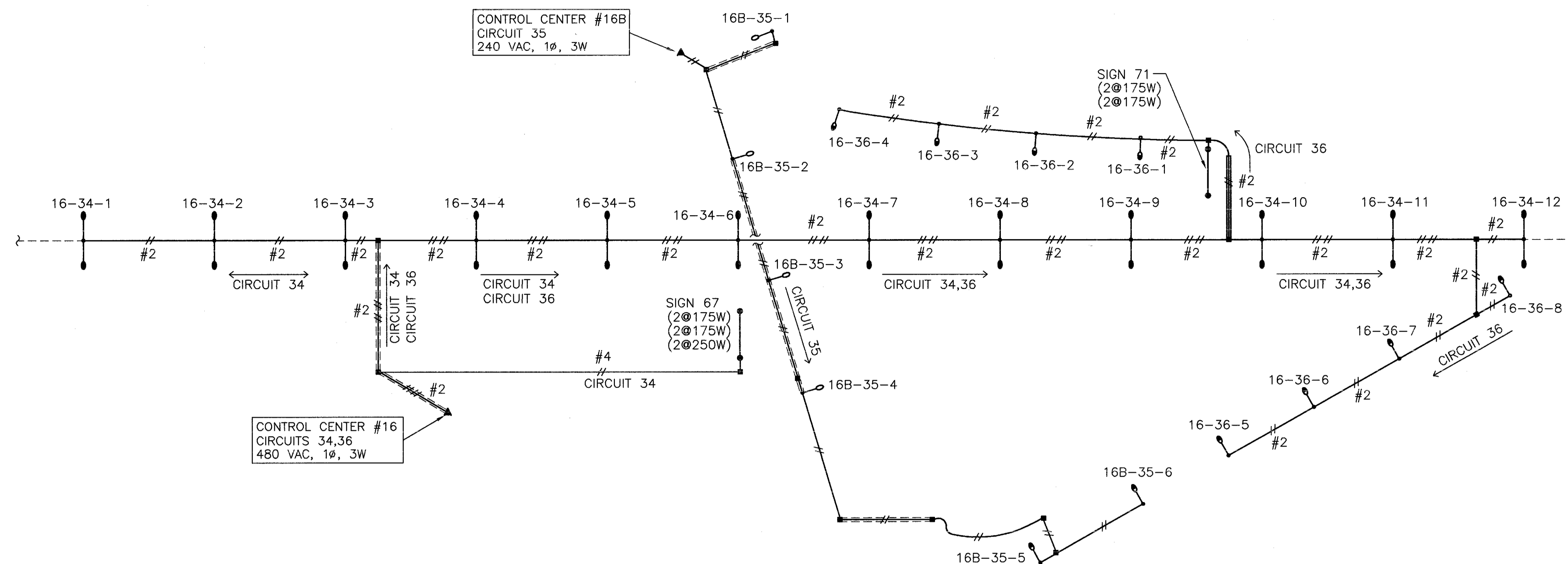


CONTROL CENTER 14
 (CIRCUITS 29, 30)
 (CIRCUIT 29 - ALL #4 AWG WIRE)
 (CIRCUIT 30 - ALL #2 AWG WIRE)



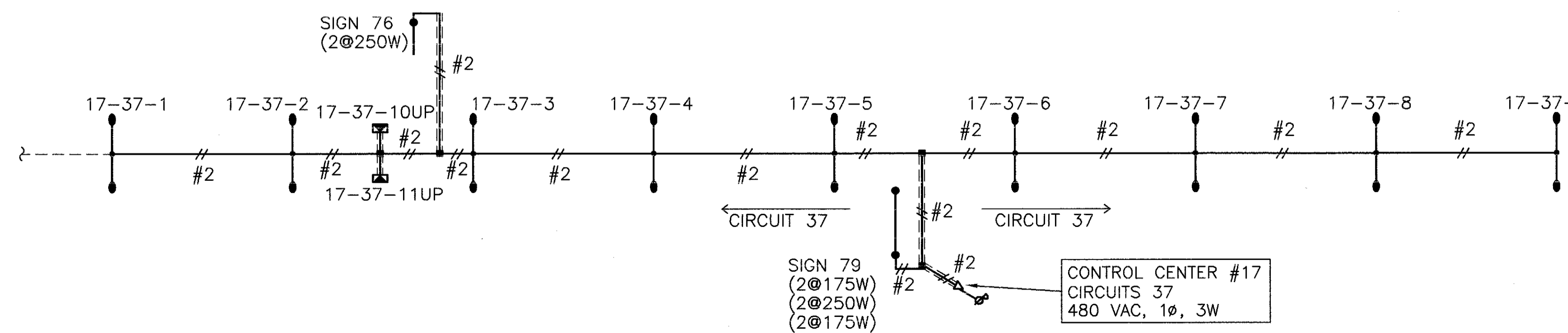
CONTROL CENTER 15, 15A, AND 16A
 (CIRCUITS 31, 32, 33, AND EXISTING CIRCUIT RECONNECT AT 16A)
 (CIRCUIT 31 - ALL #4 AWG WIRE)
 (CIRCUIT 32 - ALL #2 AWG WIRE)
 (CIRCUIT 33 - ALL #4 AWG WIRE)

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CONTROL CENTER 16 AND 16B

(CIRCUITS 34,35,36)
 (CIRCUITS 34, 36 - ALL #2 AWG WIRE)
 (CIRCUIT 35 - ALL #4 AWG WIRE)



CONTROL CENTER 17

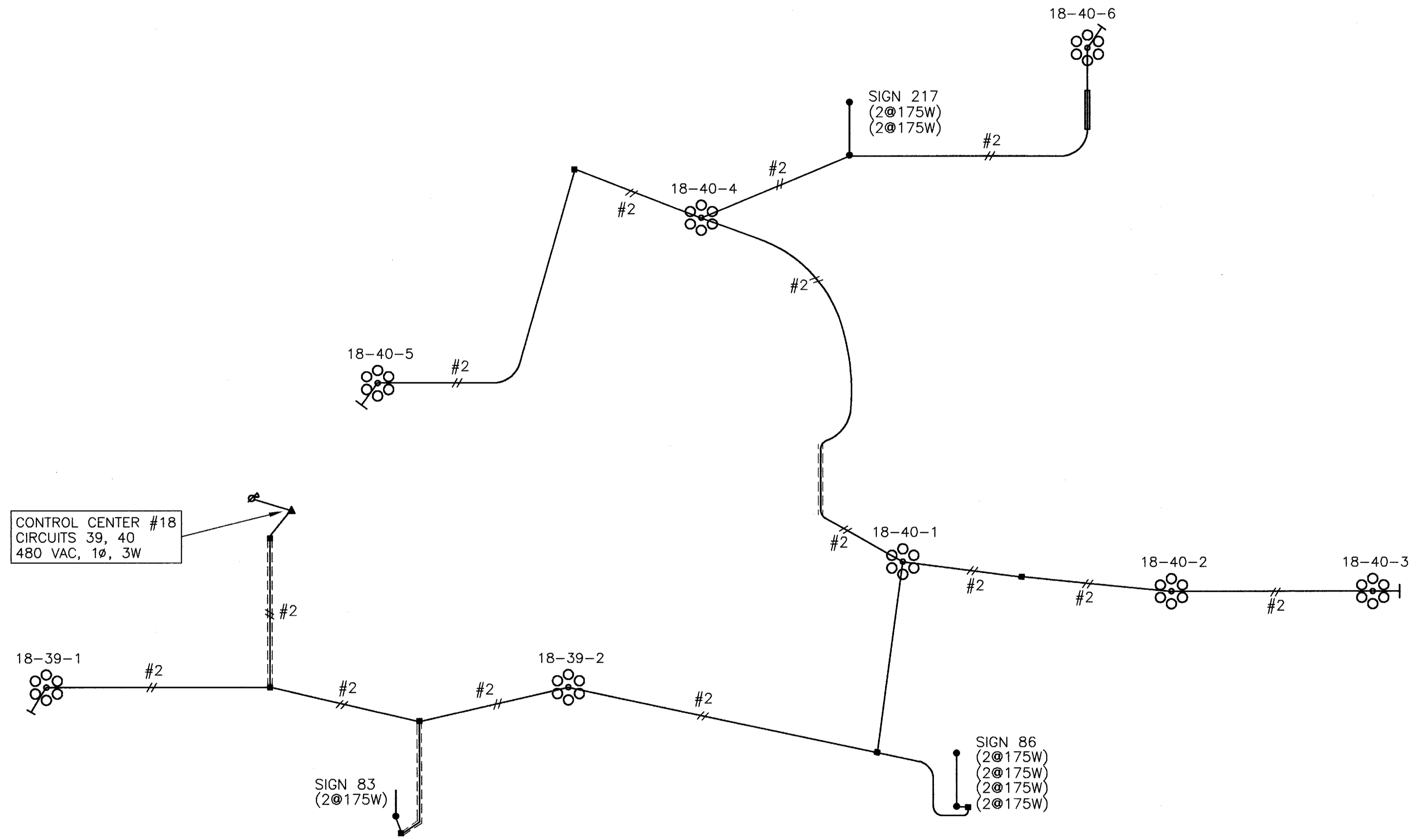
(CIRCUIT 37 - ALL #2 AWG WIRE)

CALC. BY: *KRB*
DATE: *12/1986*
CHKD. BY: *BAP*
DATE: *1/8/1987*

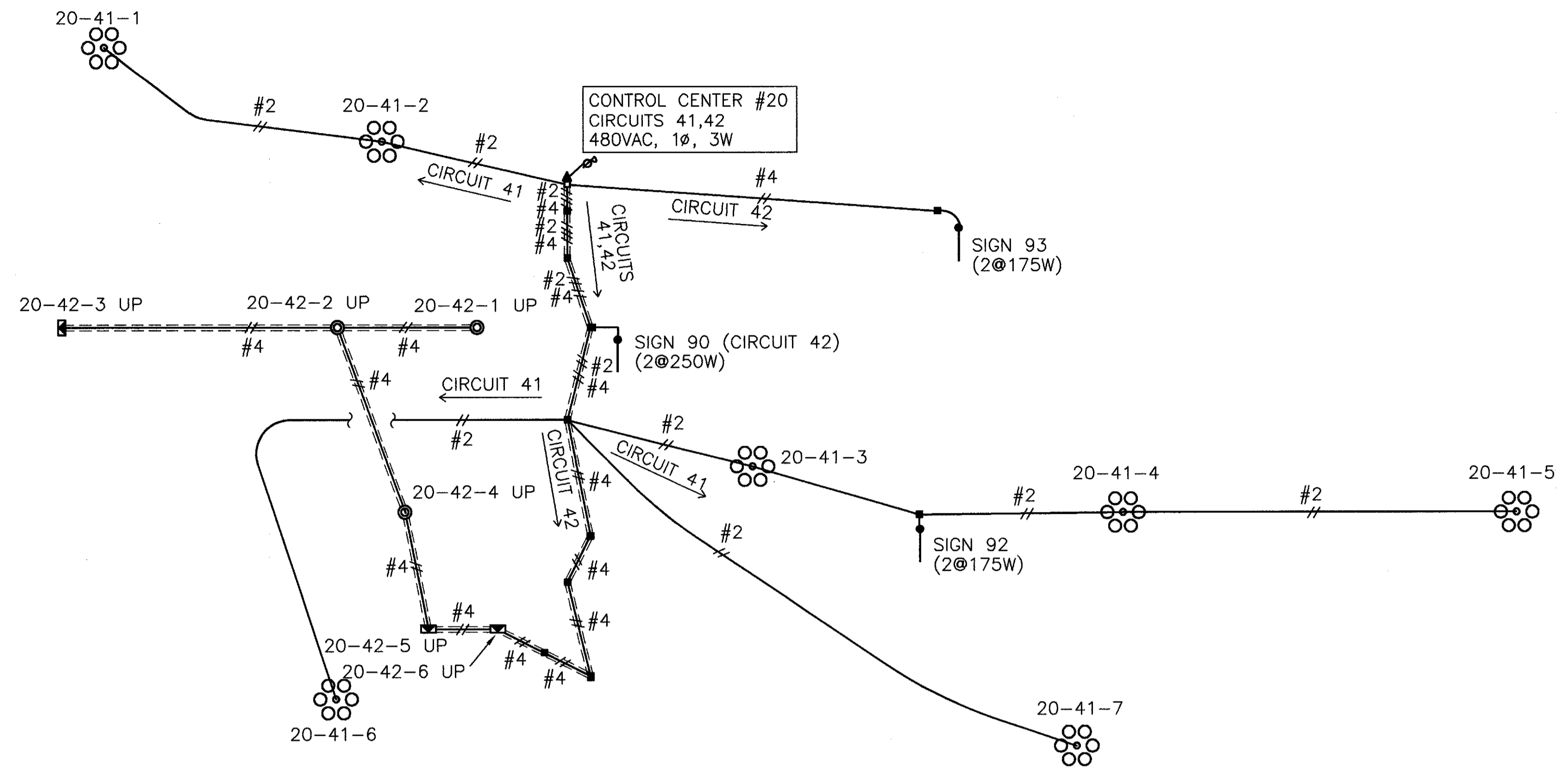
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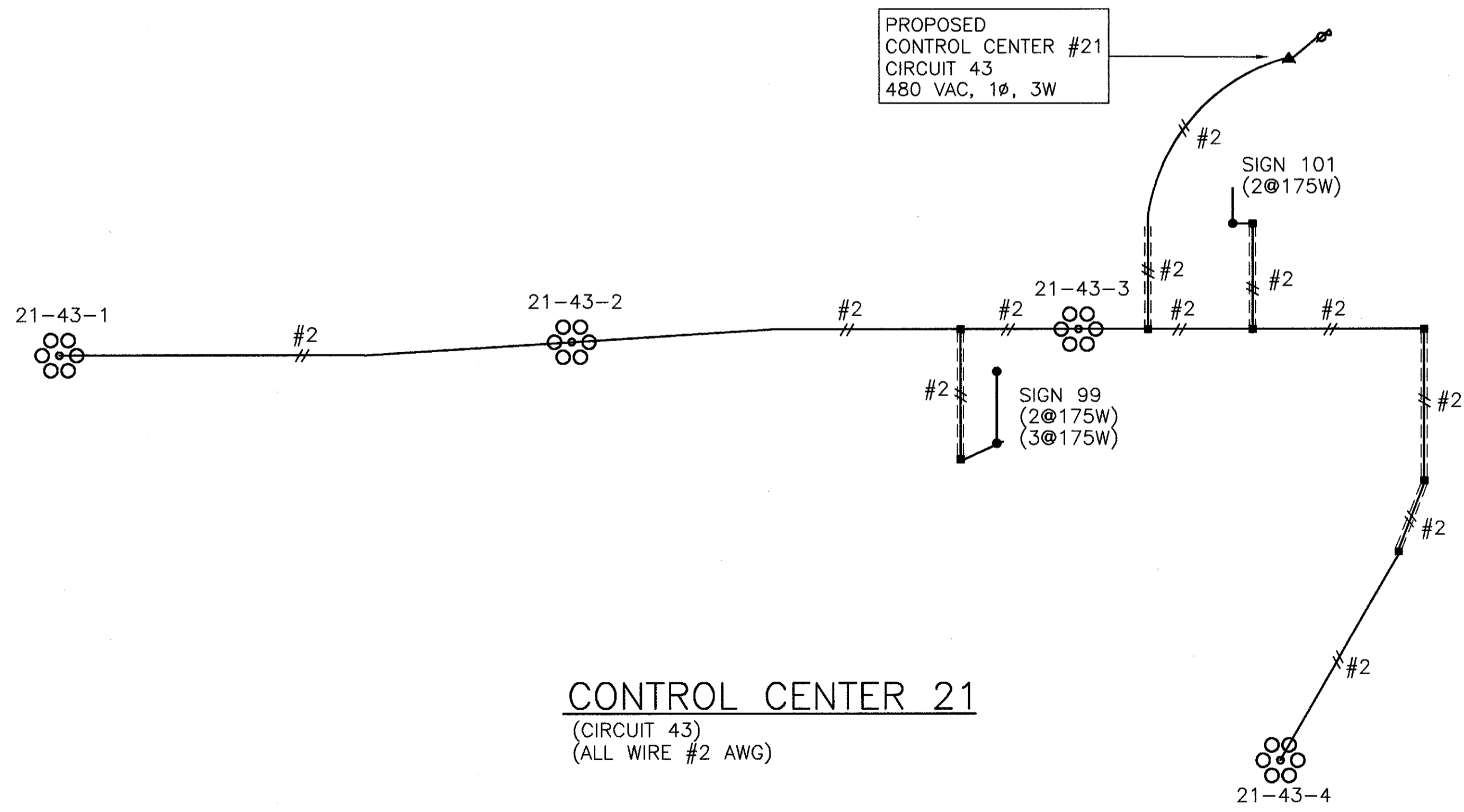
403
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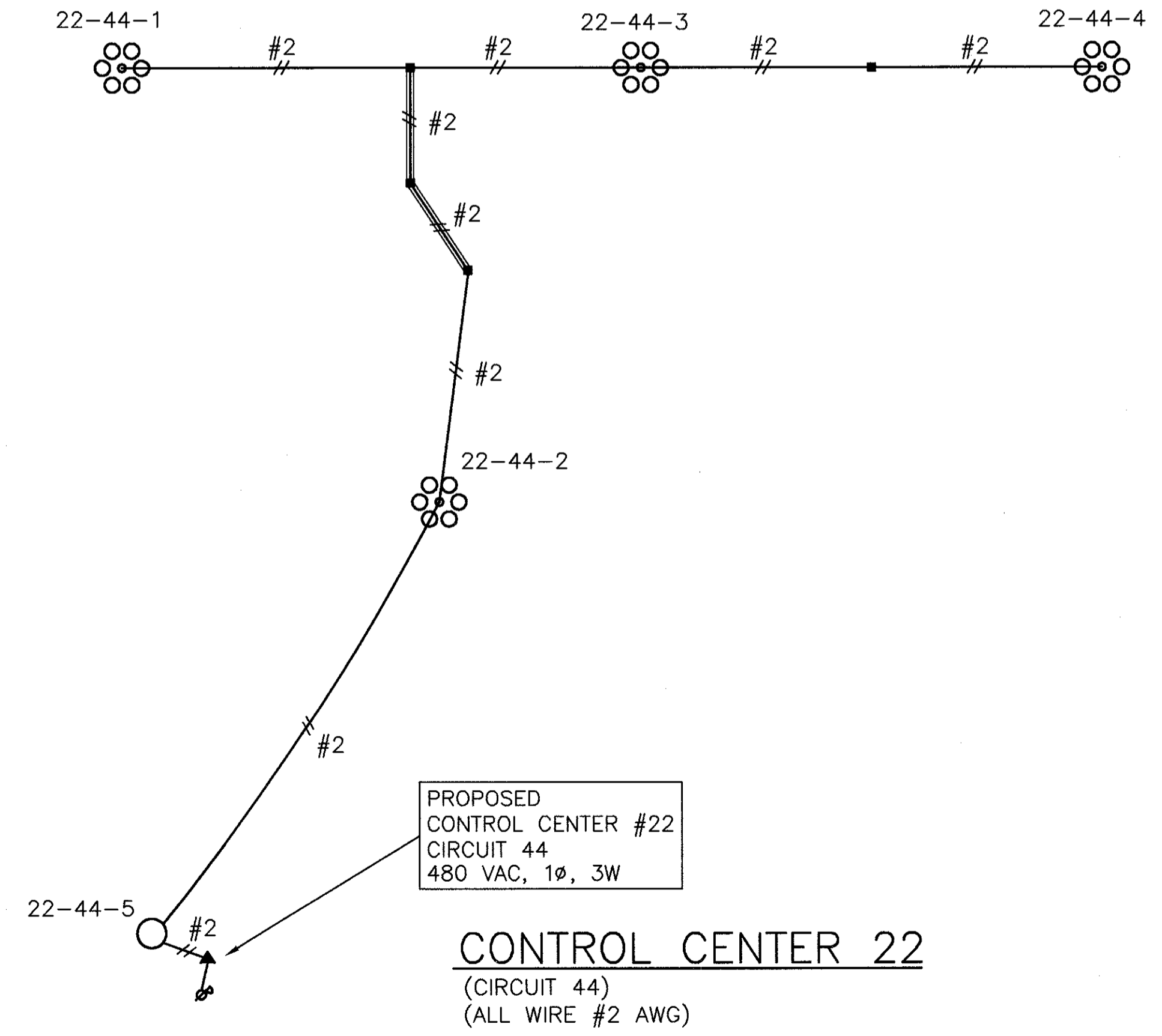
CONTROL CENTER 18
(CIRCUITS 39, 40)
(ALL WIRE #2 AWG)



CONTROL CENTER 20
 (CIRCUITS 41,42)
 (CIRCUIT 41 - ALL #2 AWG WIRE)
 (CIRCUIT 42 - ALL #4 AWG WIRE)



CONTROL CENTER 21
 (CIRCUIT 43)
 (ALL WIRE #2 AWG)



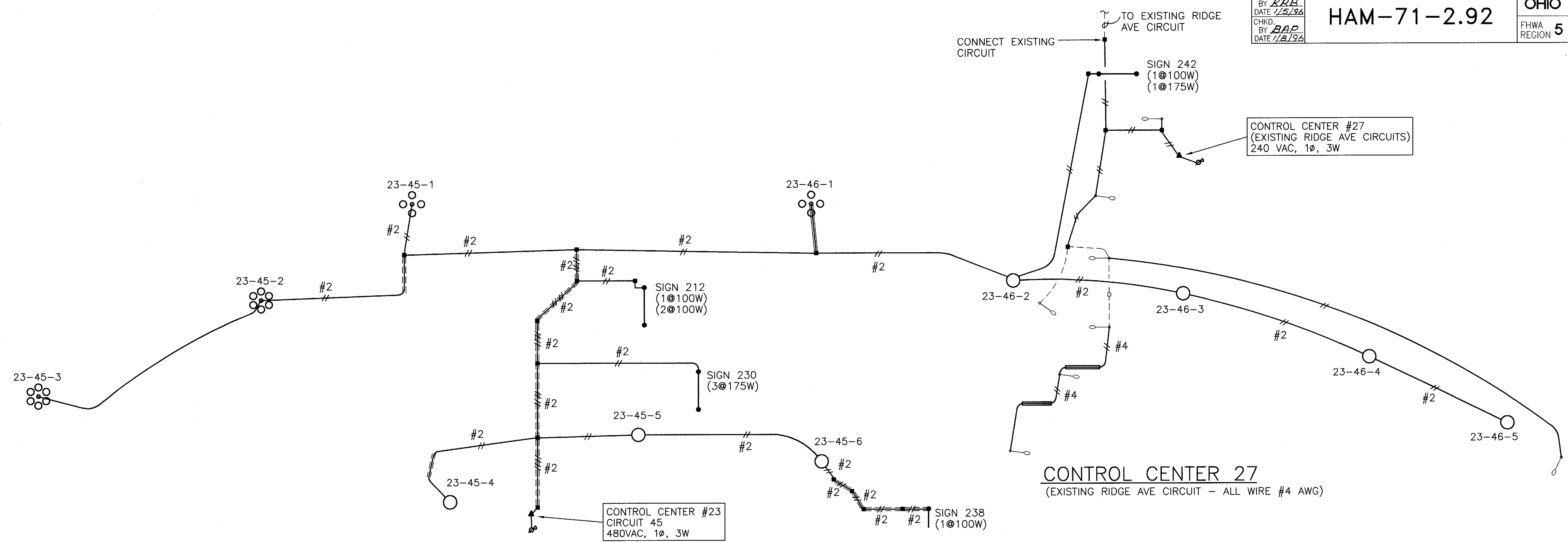
CONTROL CENTER 22
 (CIRCUIT 44)
 (ALL WIRE #2 AWG)

CALC. BY *KRB*
 DATE *1/5/96*
 CHKD. BY *BAP*
 DATE *1/8/96*

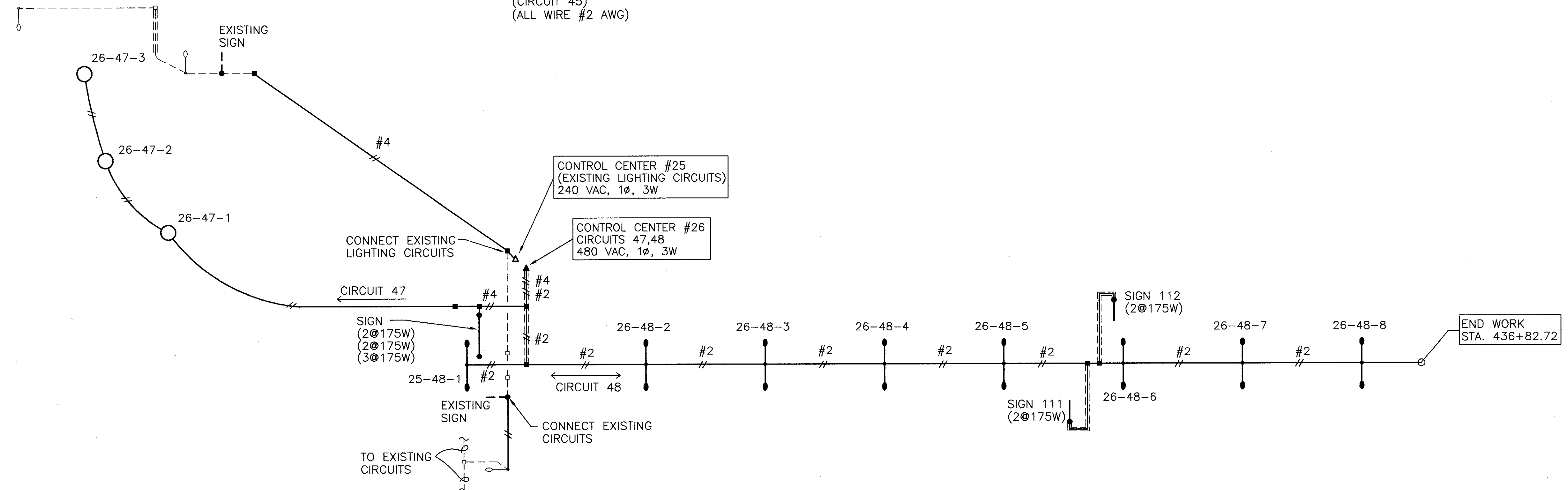
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405
 615



CONTROL CENTER #23
 (CIRCUIT 45)
 (ALL WIRE #2 AWG)



CONTROL CENTERS 25 AND 26
 (CIRCUITS 47,48 AND EXISTING KENNEDY AVE CIRCUIT)
 (CIRCUIT 47 - ALL #4 AWG WIRE)
 (CIRCUIT 48 - ALL #2 AWG WIRE)

H:\71\292\10.dwg - DEC 16, 1995

CALC. BY: KRB
 DATE: 6/27/95
 CHKD. BY: SAP
 DATE: 9/15/95

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406
 615

CONTROL CENTER DATA							
CONTROL CENTER	CONNECTED LOAD KVA	SERVICE ENTRANCE CONDUCTOR SIZE-AWG.	ENCLOSURE RATING AMPS.	CIRCUIT NO.	CIRCUIT LOAD AMPS.	CIRCUIT FUSE SIZE AMPS.	MAINTENANCE AGENCY
1	4.0	4	60	1	8.5	20	STATE
2	0.6	4	60	3	2.7	20	CITY
3	11.4	4	60	5	14.2	20	STATE
				6	9.4	20	STATE
3A	0.6	4	60	7	2.7	20	CITY
5	4.0	4	60	10	8.5	20	STATE
5A	3.4	4	60	EXIST.	14.3	20	CITY
6	5.6	4	60	11	9.8	20	STATE
				12	2.0	20	STATE
6A	4.3	4	60	13	9.0	20	CITY
7	9.0	2	60	14	18.8	30	STATE
7A	1.2	4	60	15	5.0	20	CITY
8	12.1	2	60	16	14.0	20	STATE
				17	11.2	20	STATE
8A	0.4	4	60	18	2.1	20	CITY
9	7.8	4	60	19	9.5	20	STATE
				20	6.7	20	STATE
9A	5.8	4	60	21	12.0	20	CITY
10	4.7	4	60	22	9.8	20	STATE
10A	0.4	4	60	23	2.0	20	CITY
11	6.5	4	60	24	13.6	20	STATE
				25	8.0	20	STATE
12	6.9	4	60	26	6.5	20	STATE
				29	8.4	20	STATE
14	8.9	2	60	30	10.2	20	STATE
				31	10.8	20	STATE
15	8.3	2	60	32	6.5	20	STATE
15A	0.7	4	60	33	3.0	20	CITY
				34	17.2	30	STATE
16	12.3	2	60	36	8.4	20	STATE
				EXIST.	14.0	20	CITY
16A	3.4	4	60	35	8.4	20	CITY
16B	2.0	4	60	37	17.2	30	STATE
17	8.3	2	60	39	13.0	20	STATE
18	22.6	2	60	40	34.1	50	STATE
				41	38.5	50	STATE
20	19.9	2	60	42	3.0	20	STATE
				43	24.0	30	STATE
21	11.5	2	60	44	22.0	30	STATE
22	10.5	2	60	45	20.0	30	STATE
23	14.4	2	60	46	10.0	20	STATE
				EXIST.	5.0	20	CITY
25	1.2	4	60	47	4.0	20	STATE
				48	12.6	20	STATE
26	7.9	2	60	EXIST.	8.0	20	CITY
27	1.9	4	60	EXIST.	8.0	20	CITY

RETAINING WALL POLE MODIFICATIONS DATA							
HAM 71	NEW LIGHT POLE # DESIGNATION	STA #	EXISTING			NEW	
			SHAFT DIM	BOLT CIRCLE "	DESIGN #	SUPPORT HEIGHT	DESIGN # AS PER PLAN
2.74	3-6-8	225+95 TC	8" x4.22" x27"	11"	7A-10B-30	40'-0"	A-10B-40
	3-6-11	232+49 TC	7" x4.16" x20'3"	10"	7A-10B-25D	32'-0"	A-10B-35
	3-6-4	235+00 TH	7" x4.52" x17'9"	10"	7A-10B-25D	27'-0"	A-10B-30
	3-6-5	236+00 TH	7" x6.09" x6'6"	10"	7A-10B-25D	17'-0"	A-10B-20
4.58	8-17-9	320+00 ME	8.5" x6.05" x24'6"	11.5"	11A-15B-32.5D	37'-0"	A-15B-40
	8-17-10	322+19 ME	8.5" x5.60" x28'0"	11.5"	11A-15B-30	37'-0"	A-15B-40
	8-17-11	324+15 ME	8" x4.57" x24'6"	11"	11A-10B-30D	37'-0"	A-15B-40
	12-25-1	374+05 DE	7.0" x4.20" x20'0"	10"	11A-10B-25D	32'-0"	A-10B-35
	12-25-2	375+52 DE	7.0" x5.04" x14'0"	10"	11A-10B-25D	27'-0"	A-10B-30
6.16	12-25-3	376+99 DE	7.0" x6.30" x5'0"	10"	11A-10B-25D	17'-0"	A-10B-20
	15-32-1	305+45 A	9.0" x5.65" x33'6"	17.25"	11AT-20D-41.7	43'-6"	AT-10B-46.7
	15-32-7	306+05 B	8.0" x5.45" x18'1"	15"	11AT-20B-22.8	29'-0"	AT-10B-34.2
	15-32-8	308+11 B	8.0" x4.92" x22'0"	15"	11AT-10B-26.7	32'-0"	AT-10B-36.7

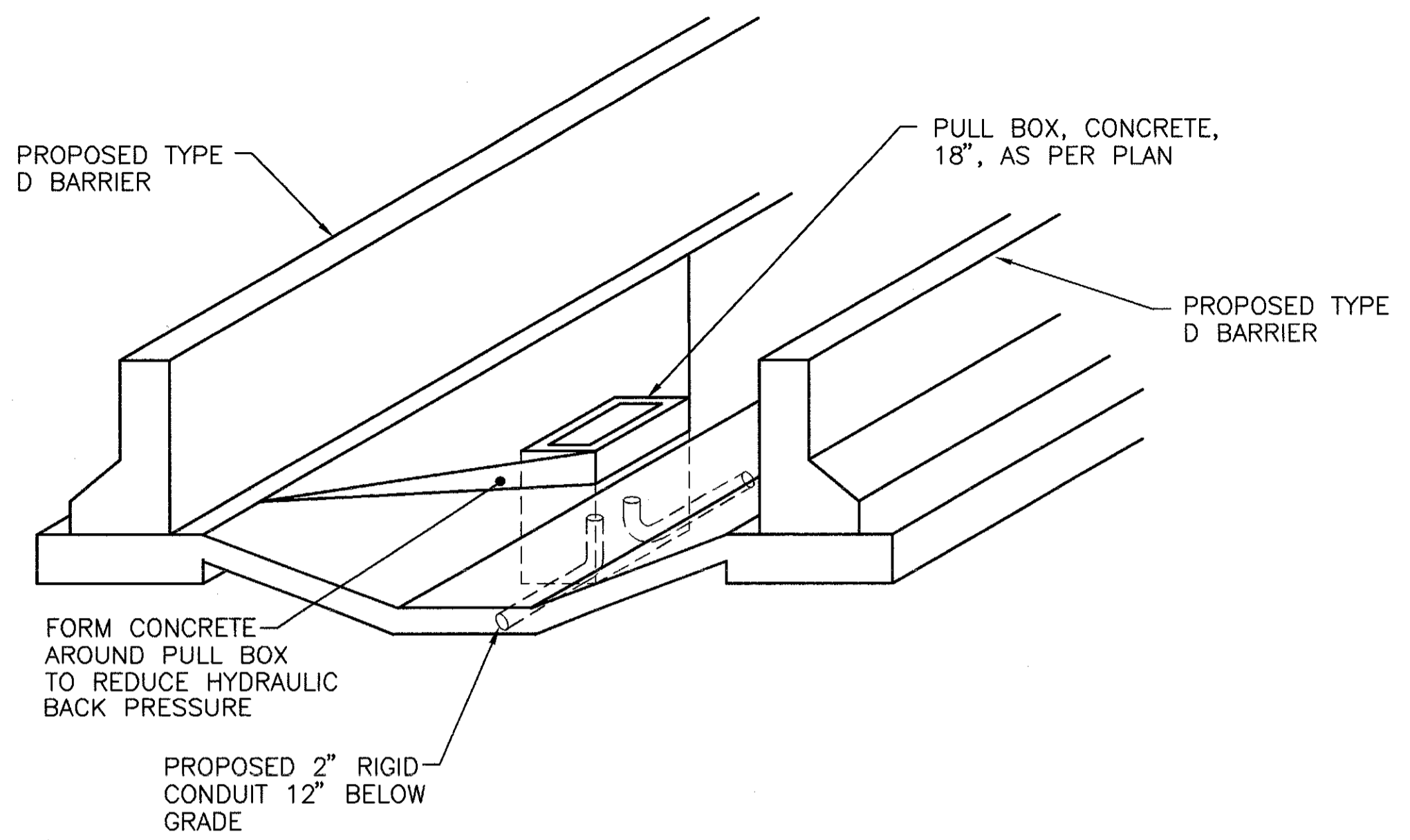
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CALC. BY *KRB*
 DATE *1/5/96*
 CHKD BY *BAP*
 DATE *7/8/96*

HAM-71-2.92

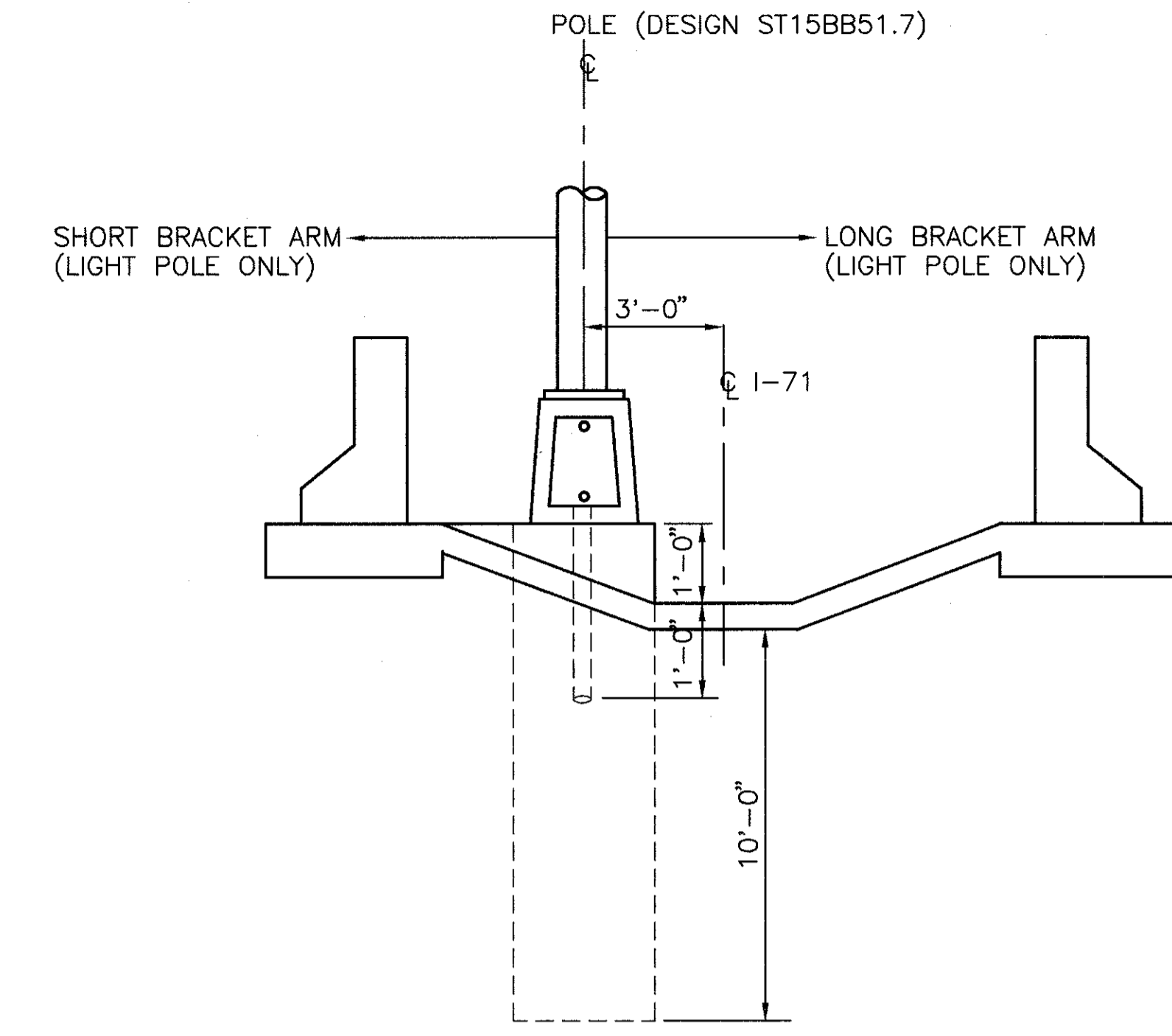
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407
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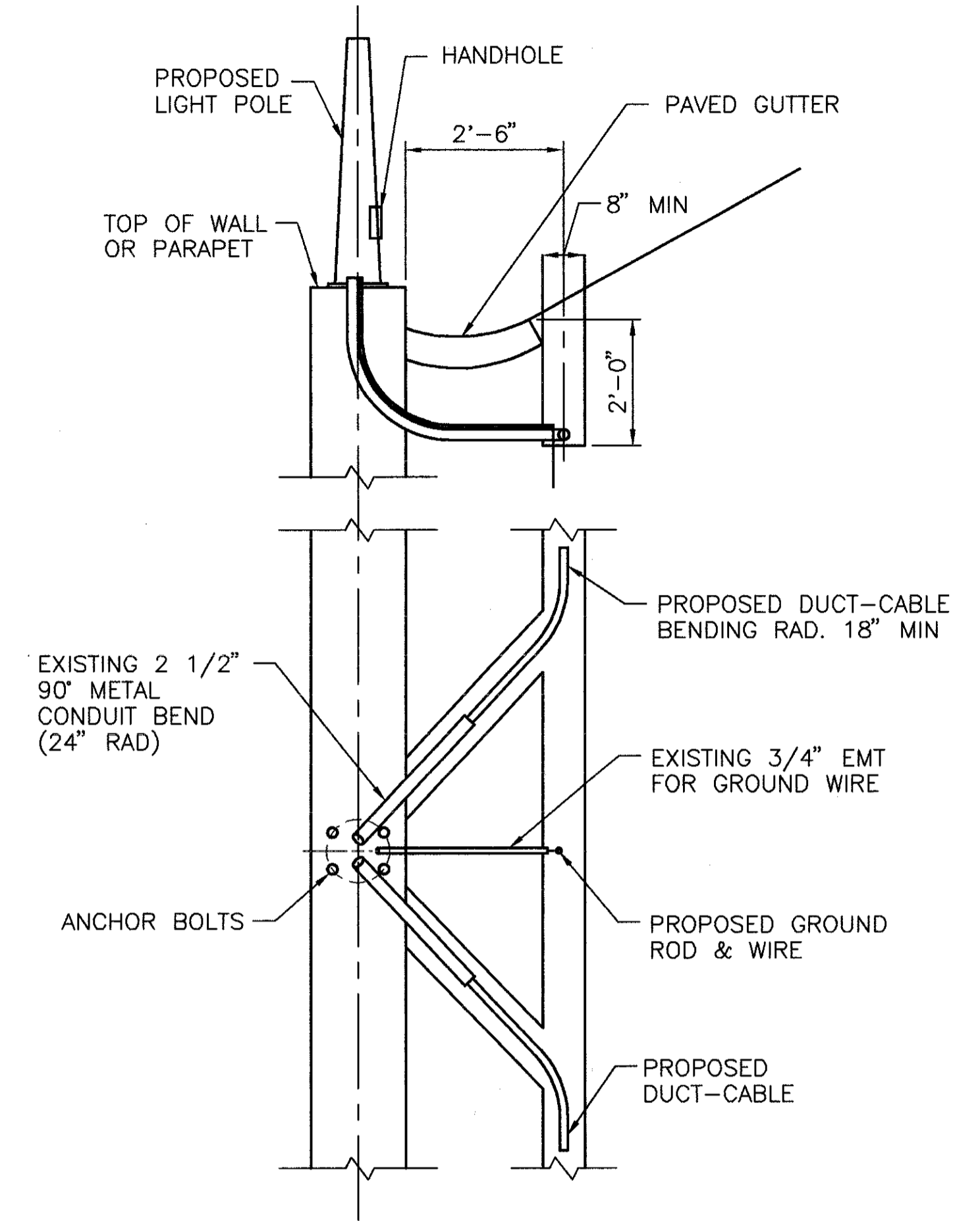


PULL BOX, CONCRETE, 18", AS PER PLAN

STA 399+71SB TO 436+82.72 (MEDIAN)

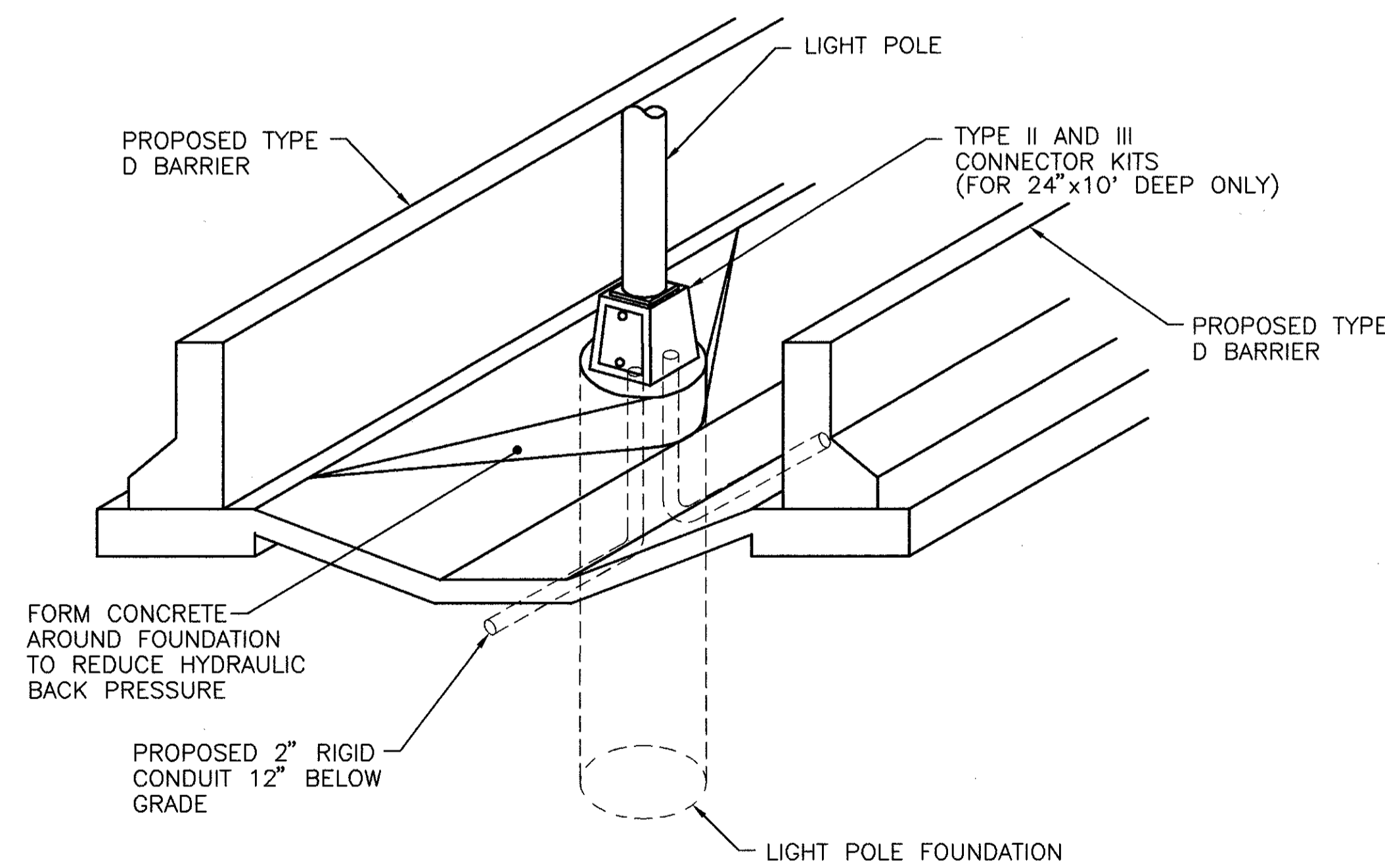


FRONT VIEW
 (OPPOSITE HAND SIMILAR)



TYPICAL INSTALLATION AT EXISTING RETAINING WALLS

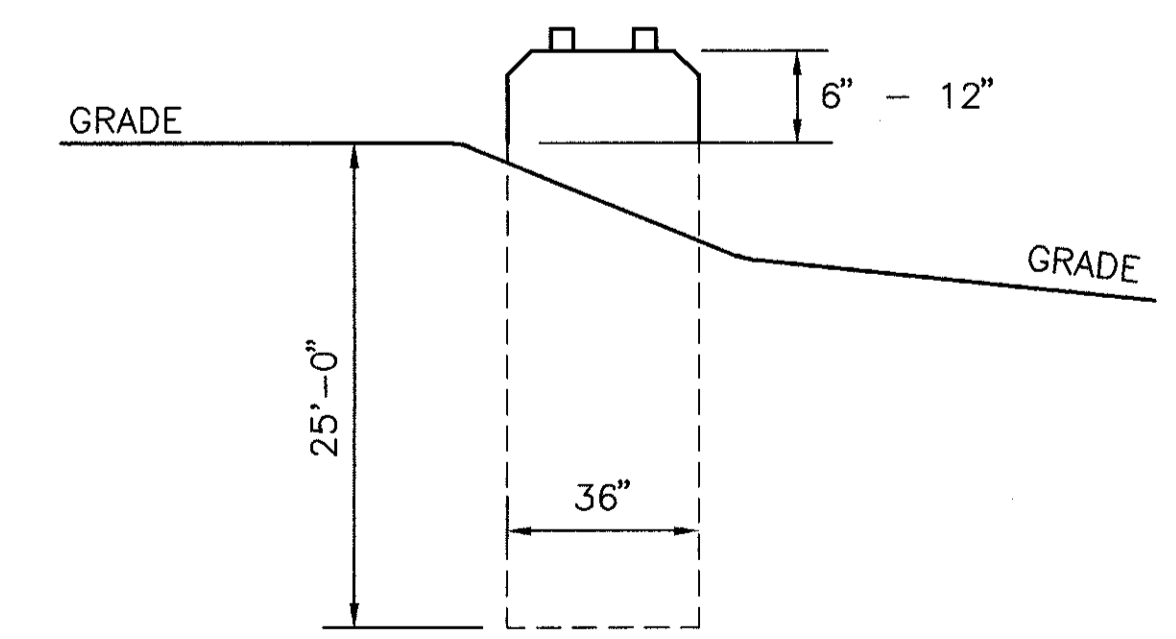
DRAWN FOR DITCH SECTION BEHIND WALL
 DETAIL IS SAME WHEN DITCH IS OMITTED



NEW JUNCTION BOX INSTALLATION ALONG EXISTING RETAINING WALL

STA 219+96 TO 232+00
 NTS

STA 399+71SB TO 436+82.72 (MEDIAN)



LIGHT TOWER FOUNDATION "A"
 (36"x25' DEEP, AS PER PLAN)(SIMILAR)

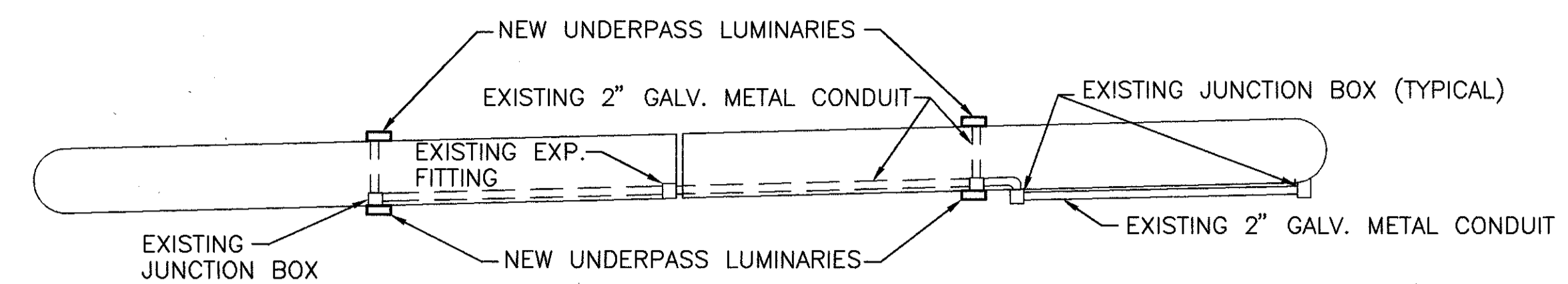
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CALC. BY: *LEB*
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 CHKD. BY: *BAP*
 DATE: *9/15/95*

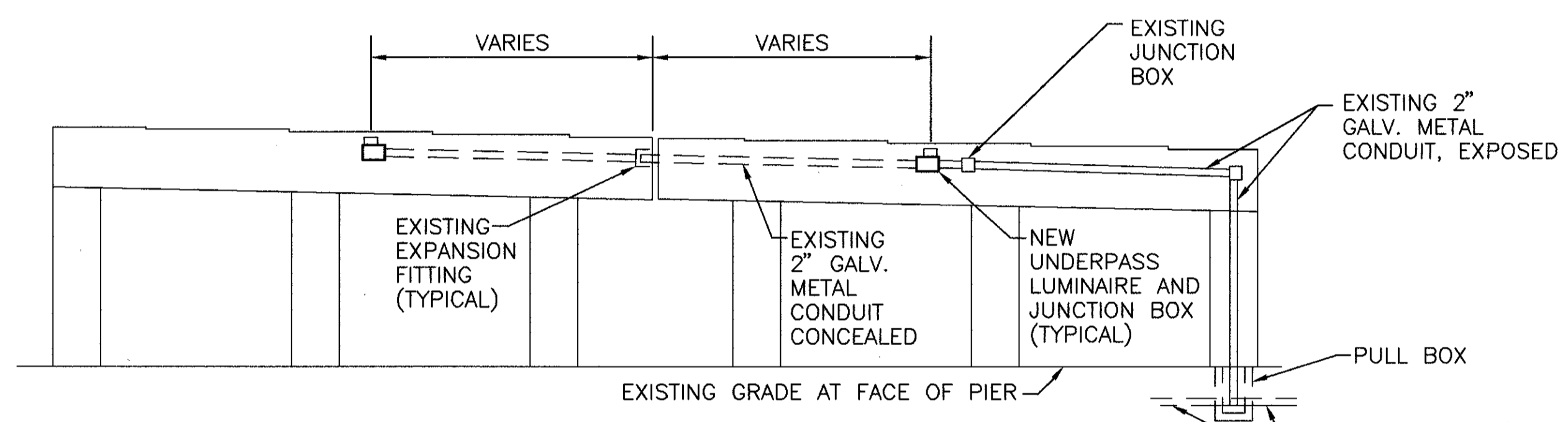
HAM-71-2.92

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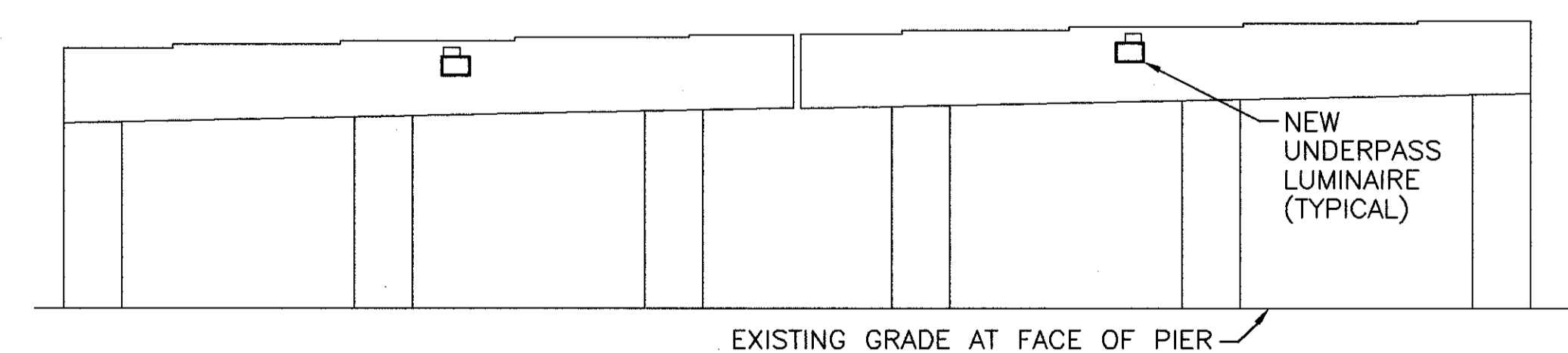
408
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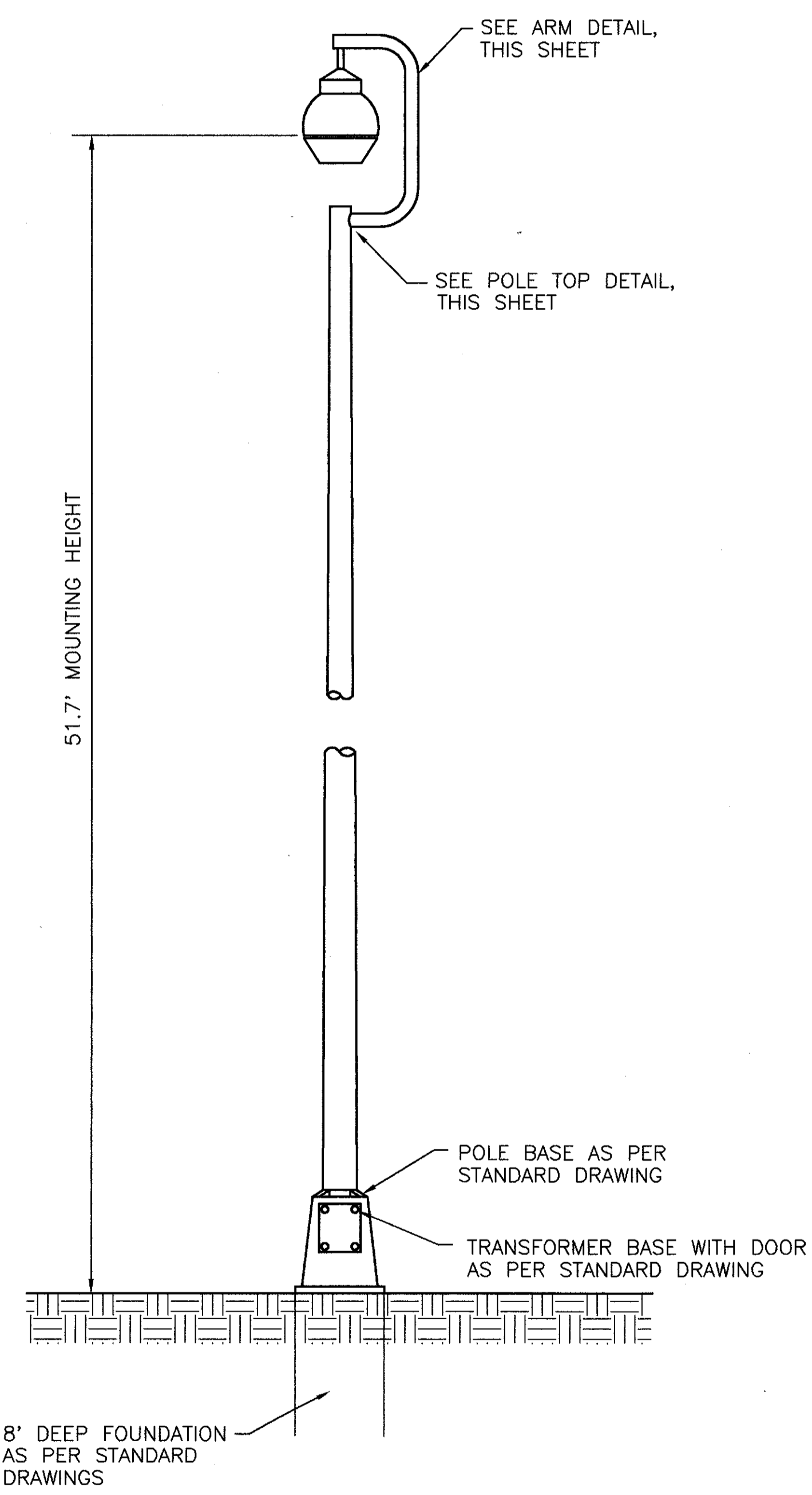
PLAN OF TYPICAL PIER
 NTS



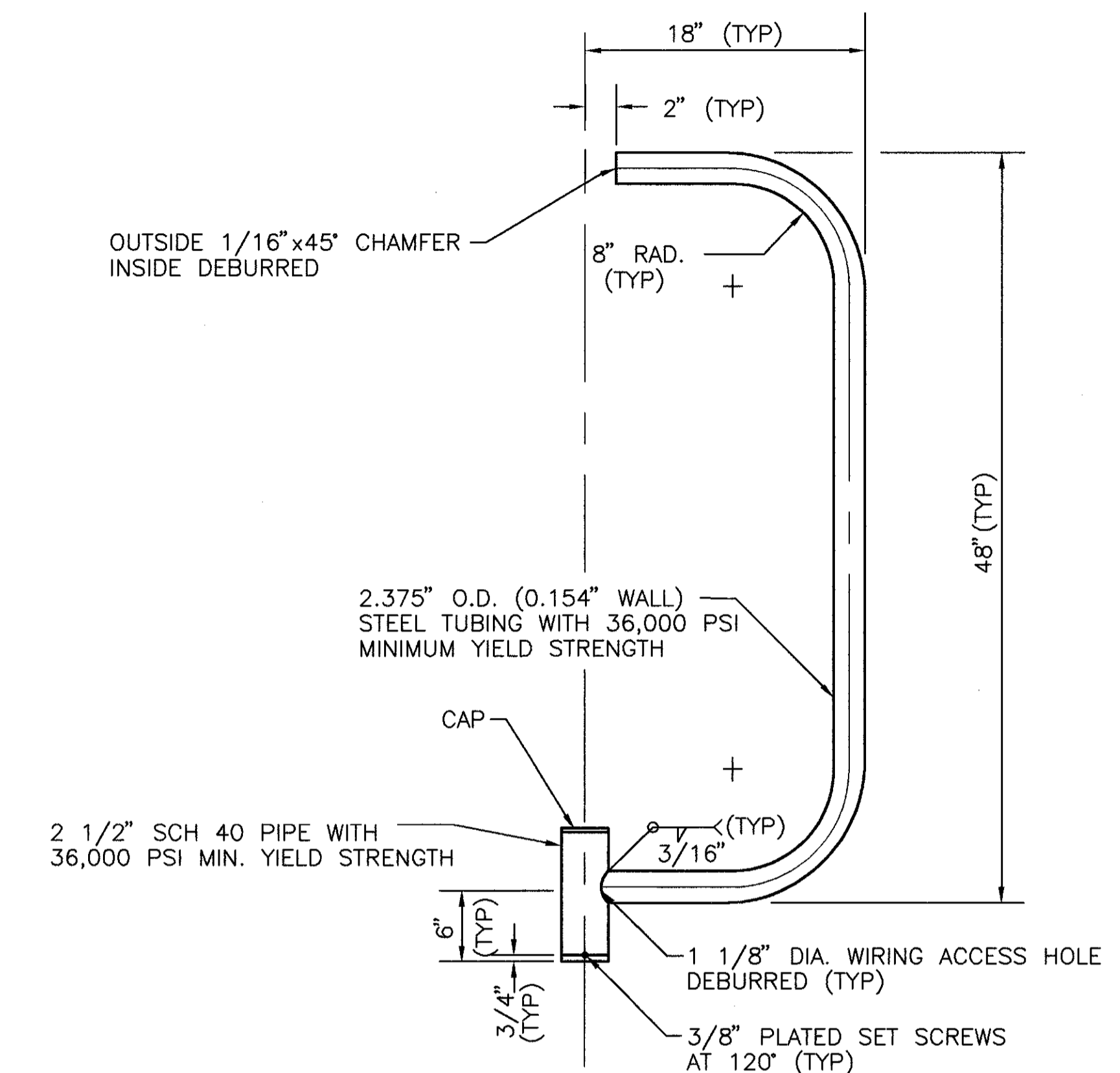
FRONT ELEVATION AT TYPICAL PIER
 NTS



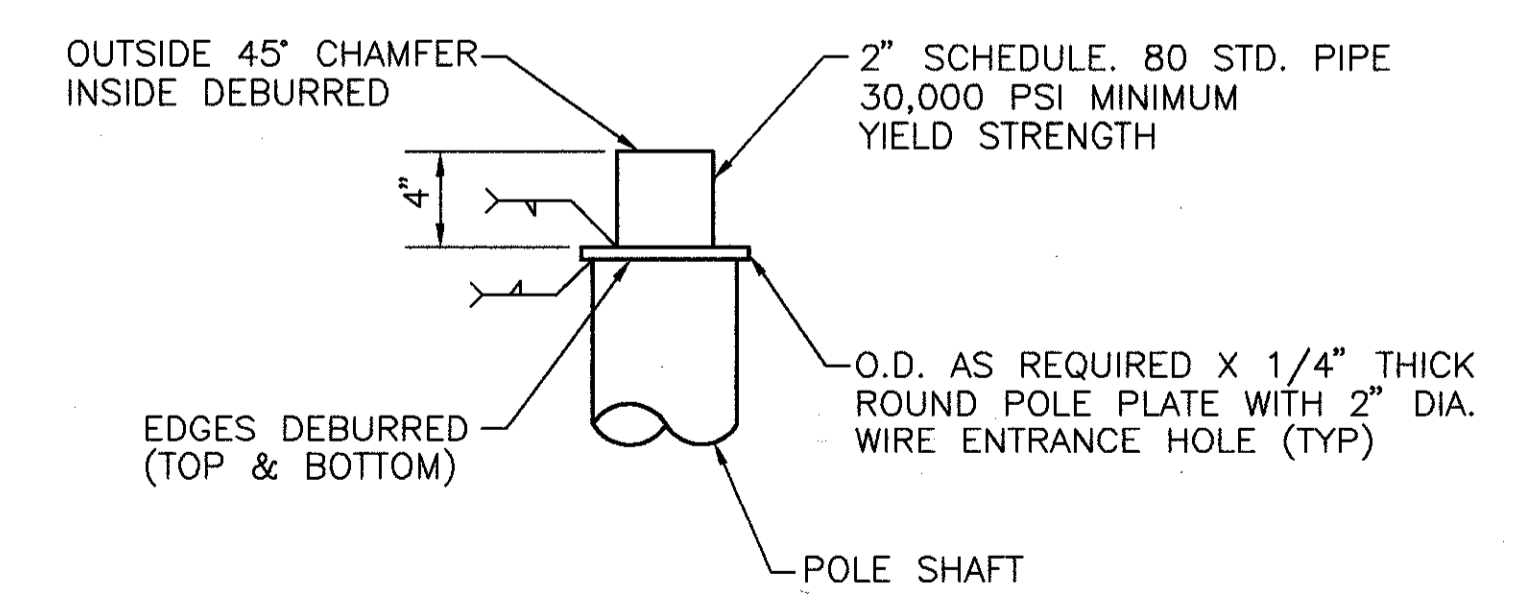
REAR ELEVATION AT TYPICAL PIER
 NTS



LIGHT POLE, LOW MAST,
 DESIGN ATON 51.7, AS PER PLAN
 NTS



ARM DETAIL
 NTS



POLE TOP DETAIL
 NTS

NOTE: EXISTING LIGHTING ARRANGEMENT AT PIERS MAY VARY. CONTRACTOR SHALL RE-USE EXISTING CONDUIT SYSTEM TO RE-FEED NEW LIGHT FIXTURES. THIS SHALL BE PAID FOR UNDER "SERVICE TO UNDERPASS LIGHTING".

H:\71\200\701.dwg - DEC. 16, 1995