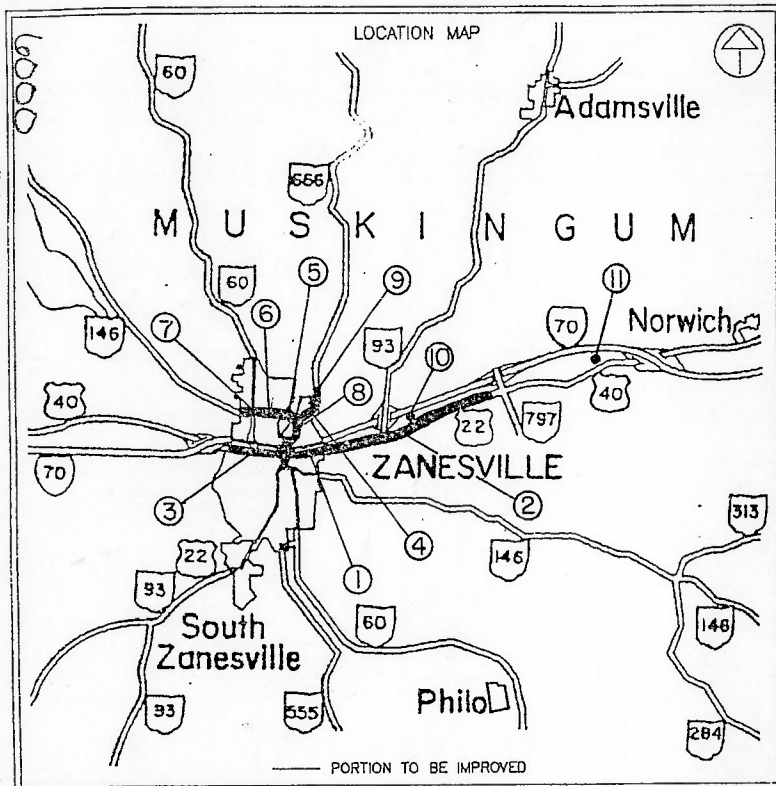


OHIO DEPARTMENT OF TRANSPORTATION

NH-000N(97)
STP-FY94(3)

PLAN NO. 123

6000 (97)



DESIGN DESIGNATION

Current ADT (1992)
Design Year ADT (2012)
Trucks (24 Hour B&C)

1	2	3	4	5	6	7
9079	3488	14927	33137	2818	4477	3383
10624	4182	10013	40128	3142	5372	4038
301	483	544	827	88	235	171

CALC. BY: SKC
DATE: 9-13-93
CHKD. BY: _____
DATE: _____

SHEETS 12 AND 52 HAVE BEEN DELETED
SHEETS 28, 71A & 76A HAVE BEEN ADDED
INDEX OF SHEETS:

TITLE SHEET.....	1	PAVT DATA SHEET.....	62
MAP OF ZANESVILLE.....	1-A	PAVED SHOULDER SHT.....	63
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DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

1993 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 not require the closing to traffic of the highway and that provisions for the maintenance and safety will be as set forth on plans and estimates.

Approved _____
Date 9-14-93 District Deputy Director of Transportation

Approved _____
Date 9-2-93 Engineer of Maintenance

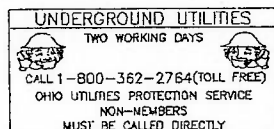
JEM Approved _____
Date 9-12-93 Engineer of Bridges

Approved _____
Date _____ Deputy Director, Operations

Approved _____
Date 9-15-93 DISTRICT MAINTENANCE ENGINEER

Approved _____
Date _____ Director, Department of Natural Resources

Approved _____
Date 7-8-94 Director, Department of Transportation



PLAN PREPARED BY:

STANDARD DRAWINGS		STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BR-2-82	11-1-82	MT-99.10	11-14-86	910	5-20-91
MT-95.30	10-10-88	MT-99.20	4-29-88	933	2-10-87
MT-97.10	4-29-88	TC-65.10	2-01-90		
BP-3.1	2-21-92	TC-65.12	2-01-90		
BP-4.1	2-21-92	TC-65.13	2-01-90	862	12-16-88
MT-95.31	10-10-88	TC-71.10	9-10-91		
MT-95.32	8-25-89	TC-65.11	2-1-90	962	1-23-90
MT-97.11	10-04-89	DR 8(9)	4-24-92	MC-9.2	5-6-94

FEDERAL PROJECT NO.

P.D. NO. 12683

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

MUS-146-1337
MUS-660-0.00
MUS-40-10.35
MUS-60-17.14
MUS-600A-N-0.66
OAK PARK OUTPOST

180

GENERAL NOTES

EXTRA ASPHALT FOR PRE-LEVELING

A QUANTITY OF 448 INTERMEDIATE COURSE HAS BEEN INCLUDED IN THE PLAN TO BE USED AT THE DIRECTION OF THE ENGINEER FOR PRE-LEVELING WHERE THE PAVEMENT IS LOW OR DETERIORATED.

THE QUANTITY OF ITEM 448 SHOWN BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, AC-20

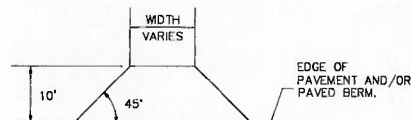
PART										
1	2	3	4	5	6	7	8	9	10	11
27	193	63	40	5	10	30	127	-	10	-
										CU.YD.

RESIDENCE AND COMMERCIAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 448 ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS TO EXISTING DRIVEWAYS. PAVING SHALL EXTEND 10 FEET INTO THE DRIVEWAY, MEASURED FROM THE EDGE OF THE PAVEMENT, OR PAVED BERM. THICKNESS SHALL BE APPROXIMATELY THE SAME AS THE ROADWAY PAVEMENT AND/OR PAVED BERM. FIELD DRIVES OR OIL WELL DRIVES WILL NOT BE PAVED. ANY GRADING OF EXISTING DRIVES, TACK OR PRIME COAT, ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK ON DRIVES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20 (DRIVEWAYS).

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

PART										
1	2	3	4	5	6	7	8	9	10	11
50	410	83	-	-	-	-	45	-	-	-
										CU.YD.



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
ORD. BY	PLAN NO.
DATE	

2
80

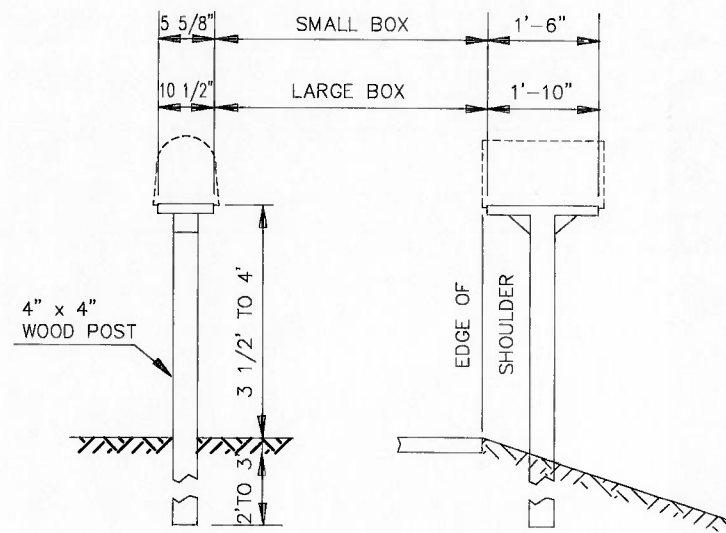
ITEM SPECIAL - MAILBOX SUPPORTS

THIS ITEM SHALL CONSIST OF REPLACING AND RESETTING DESIGNATED MAILBOX SUPPORTS WITH PRESSURE TREATED FOUR INCH (NOMINAL) TIMBER POSTS MEETING AASHTO M 133-81 AWP A P 8 OR AWP A 5. MAILBOX SUPPORTS SHALL BE CONSTRUCTED AS PER THE DRAWING ON THIS SHEET. ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE REMOVAL AND INSTALLATION OF THE EXISTING MAILBOX ON THE NEW TIMBER POSTS AND RESETTING THE MAILBOX POSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - MAILBOX SUPPORTS.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE.

ITEM SPECIAL - MAILBOX SUPPORTS

PART										
1	2	3	4	5	6	7	8	9	10	11
-	108	-	-	-	-	-	10	-	-	-
										EACH



TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT

GENERAL NOTES

SHOULDER RESTORATION

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - GRADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF GRADER HOURS WORKED.

ALL EXCESS MATERIAL REMAINING AROUND GUARDRAIL AND OTHER AREAS AFTER THE GRADER WORK IS COMPLETED AND NOT DISPOSED OF ON THE SITE, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE REMOVAL WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - LOADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF LOADER HOURS WORKED. ANY OTHER EQUIPMENT, LABOR OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED THEREIN FOR PAYMENT. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

ITEM SPECIAL - GRADER RENTAL

ITEM SPECIAL - LOADER RENTAL

PART					
2	7	8	10		
15	1	4	3	HOUR	
8	1	2	1	HOUR	

RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN

REMOVAL OF RAISED PAVEMENT MARKERS SHALL CONFORM WITH SECTION NO. 202.071 IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL EXCEPT FOR THE FOLLOWING:

ONCE PAVEMENT MARKERS HAVE BEEN REMOVED THE OPENING THAT REMAINS IN THE ROADWAY SHALL BE CLEANED FREE OF ALL DEBRIS, TACKED AND FILLED WITH ASPHALT CONCRETE BY THE END OF THE SAME CONSTRUCTION DAY AS REMOVAL OF RAISED PAVEMENT MARKERS.

AFTER PAVEMENT MARKERS HAVE BEEN REMOVED BY THE CONTRACTOR, HE WILL THEN BE RESPONSIBLE TO TAKE THE REMOVED MARKERS TO A STATE GARAGE THAT WILL BE DESIGNATED BY THE ENGINEER. THE PROJECT ENGINEER SHALL GIVE THE DISTRICT MAINTENANCE ENGINEER 24 HOUR NOTICE PRIOR TO DELIVERY AND THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY TRANSFER DOCUMENTATION WITH ALL DELIVERIES. PAYMENT FOR ALL WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN. ITEM

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	PLAN NO. _____
CHKD. BY _____ DATE _____	



UTILITIES NOTIFICATION

COOPERATION WITH THE FOLLOWING UTILITY COMPANIES SHALL BE AS DESCRIBED IN SECTION 105.06 OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

COLUMBIA GAS TRANSMISSION CORP.
SUNBERRY WOODS OFFICE PARK
P.O. BOX 6164
4111 EXECUTIVE PARKWAY
WESTERVILLE, OH 43081

ATTN: MARK BRODT
(614) 895-5033

MR. DAVID ZULANDT
DIRECTOR OF PUBLIC SERVICE
CITY OF ZANESVILLE
401 MARKET STREET
ZANESVILLE, OH 43701

(614) 455-0650

NATIONAL GAS & OIL CORPORATION
1500 GRANVILLE ROAD
P.O. DRAWER-AF
NEWARK, OH 43055-0693

ATTN: DAVE DETTY/DON STOCK

(614) 344-2102

COLUMBIA GAS OF OHIO
204 HIGHLAND AVENUE
P.O. BOX 250
CAMBRIDGE, OH 43725

ATTN: MARK HILL,
SUPERVISORY ENGINEER
(614) 432-8226

EAST MUSKINGUM WATER AUTHORITY
375 RICHARDS ROAD
ZANESVILLE, OH 43701

ATTN: ROGER PEYTON,
SUPERINTENDENT
(614) 453-0678

OHIO BELL TELEPHONE COMPANY
150 E. GAY STREET, RM. 6C
COLUMBUS, OH 43215

ATTN: MARGIE O'SULLIVAN
(614) 223-8535

GUERNSEY-MUSKINGUM ELECTRIC COMPANY
17 S. LIBERTY STREET
NEW CONCORD, OH 43762

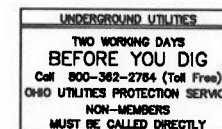
ATTN: CURT JONES, ENGR.
(614) 826-7661

TCI OF ZANESVILLE
737 HOWARD STREET
ZANESVILLE, OH 43701

ATTN: BILL RANGLES, MGR.
(614) 452-5414

OHIO POWER COMPANY
301 CLEVELAND AVE., S.W.
P.O. BOX 24400
CANTON, OH 44701-4400

ATTN: LEONARD WHALEY,
PUBLIC PROJECTS
(216) 438-7040



GENERAL NOTES

ITEM 614 WORK ZONE MARKING SIGNS

A TOTAL QUANTITY OF A EACH WORK ZONE MARKING SIGNS (B EACH "NO EDGE LINES" OW-167 AND C EACH "UNMARKED NO PASSING ZONES" OW-168) ARE CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. ALSO INCLUDED ARE D EACH "BEGIN ROAD CONSTRUCTION AHEAD" OW-128 AND E EACH "END ROAD CONSTRUCTION" OC-8, FOR ADJOINING SIDE ROADS. ALSO, ON SR. 146 F EACH "UNEVEN LANE SYMBOL" OW-171-36 AND G EACH "UNEVEN LANE" OW-171-24 SHALL BE USED AS DIRECTED BY THE ENGINEER.

PART	1	2	3	4	5	6	7	8	9	10	11
TOTAL = A	46	48	42	58		18	14	28	4		
B		8					1	2	1		
C		8					1	2	1		
D	23	16	21	29		9	6	10			
E	23	16	21	29		9	6	10			
F							2	1			
G							2	1			

MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-4.1, 2-21-92.

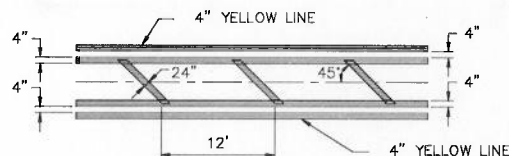
ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20.

ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20
CU.YD. (SEE TABLE BELOW)

PART	1	2	3	4	5	6	7	8	9	10	11
Cu.Yd.	—	293	—	—	—	—	—	75	—	—	—

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, TURN ARROWS, ETC., SHOWN ON THE PLAN ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-80DA-N-0.66

MUS-146-13.37
MUS-866-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHG. BY	
DATE	
PLAN NO.	

4
80

MANHOLES, CATCH BASINS, AND WATER VALVE BOXES ADJUSTED TO GRADE

SEWER MANHOLES, CATCH BASINS AND WATER VALVE BOXES THAT ARE TO BE ADJUSTED TO GRADE ARE LISTED BELOW. THESE NUMBERS ARE TAKEN FROM FIELD COUNTS. HOWEVER, THE ACTUAL NUMBER THAT ARE TO BE ADJUSTED TO GRADE WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. PAYMENT SHALL BE FOR THE ACTUAL NUMBERS OF EACH ITEM THAT ARE ADJUSTED TO GRADE AS DETERMINED BY THE ENGINEER. MANHOLES SHALL BE ADJUSTED USING CONCRETE AS SHOWN IN DRAWING BP-3.1, 2-21-92. GAS VALVE BOXES AND TELEPHONE COMPANY MANHOLES AND ANY OTHER UTILITIES ENCOUNTERED ON THE PROJECT SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE OWNERS.

PART	WATER VALVE	MANHOLES	CATCH BASIN
1	6 EACH	21 EACH	8 EACH
2	5 EACH	—	1 EACH
3	12 EACH	26 EACH	9 EACH
4	7 EACH	27 EACH	—
6	4 EACH	7 EACH	—
7	2 EACH	6 EACH	1 EACH
8	5 EACH	6 EACH	—
10	—	—	4 EACH

PAVED SHOULDERS

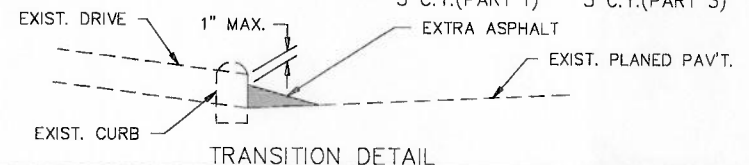
THE PAVED SHOULDER SHALL BE APPLIED IN TWO COURSES. THE FIRST BEING 1" OF ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, AC-20 AND IT SHALL BE APPLIED AT THE TIME AS THE FIRST COURSE ON THE ROADWAY. THE SECOND COURSE SHALL BE 1.25" OF ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20 TO BE APPLIED AT THE SAME TIME AS THE FINAL COURSE ON THE ROADWAY, AS DIRECTED BY THE ENGINEER.

EXTRA ITEM 448 ASPHALT FOR TEMPORARY TRANSITION ON DRIVES

AN ADDITIONAL AMOUNT OF ITEM 448, ASPHALT CONCRETE HAS BEEN PROVIDED. THE PURPOSE OF THIS IS TO PROVIDE EXTRA ASPHALT FOR DRIVES THAT WILL ALLOW A SMOOTH TRANSITION FROM EXISTING DRIVES TO THE PLANNED ASPHALT. DRIVES THAT WILL RECEIVE THE EXTRA ASPHALT WILL BE CHOSEN BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20
3 C.Y.(PART 1) 5 C.Y.(PART 3)



GENERAL NOTES

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-80DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

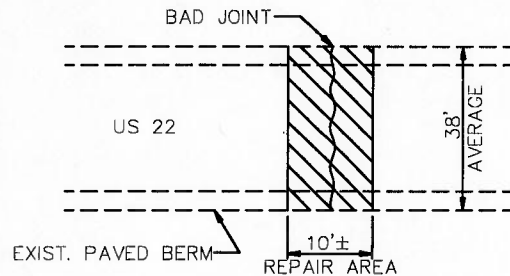
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5
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ITEM 253 - PAVEMENT REPAIR

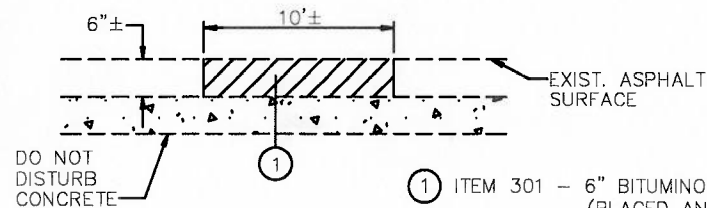
QUANTITIES FOR PAVEMENT REPAIR HAVE BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER WHERE THE EXISTING PAVEMENT AND BERM IS DETE-RIORATED. FINAL LOCATIONS OF PAVEMENT REPAIR SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 6". AFTER GRINDING OUT REPAIR THE AREA SHALL BE COATED WITH TACK COAT AS PER SECTION 401.12 IN THE CMS MANUAL. REPLACEMENT MATERIAL WILL BE 6" OF ITEM 301, BITUMINOUS AGGREGATE BASE (PLACED AND COMPACTED IN TWO LAYERS OF EQUAL THICKNESS). ALL EXCAVATION NEEDED TO ACHIEVE THE PROPER SLOPES FOR DRAINAGE ON BERMS SHALL BE PAID FOR UNDER ITEM 253, PAVEMENT REPAIR. AFTER ALL PAVEMENT REPAIR HAS BEEN ACCOMPLISHED, THE ENTIRE SURFACE INCLUDING BERMS WILL BE OVERLAID WITH 1" OF ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, AC-20, THEN 1.25" OF ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 253 PAVEMENT REPAIR, 253 C.Y. (PART 2)



NOTE: REPAIR DEPTH HAS BEEN CALCULATED AT 6", HOWEVER, THE EXIST. BASE UNDER THE ASPHALT IS CONCRETE. WHEN THE CONCRETE HAS BEEN REACHED STOP GRINDING, REGARDLESS OF DEPTH OF ASPHALT.

PLAN VIEW



PAVEMENT REPAIR

DETAIL

ITEM 254 - PAVEMENT PLANING, BITUMINOUS (PARTS 1,3,4,5,6,7 AND 8)

FEATHERING AT EACH END OF THE PLANED AREAS SHALL BE AT THE RATE OF 1 INCH IN 25 FEET. INTERSECTING STREETS SHALL BE PLANED AS DIRECTED AND FEATHERED AT A RATE OF 1 INCH IN 10 FEET. PLANING DEPTHS SHOWN ARE APPROXIMATE. PLANING OF SURFACES SHALL RESULT WITH PAVEMENT HAVING A SLOPE OF 3/16 INCH PER FOOT FROM CENTERLINE DOWN TO EDGE OF PAVEMENT. PLANING SHALL BE PERFORMED AT INLETS. PLANING SHALL FEATHER INTO INLETS AT 1" PER FOOT; THIS MAY REQUIRE ADDITIONAL PLANING IN THESE AREAS. THE INTENT OF THIS IS TO OPEN THE EXISTING INLETS UP FOR MAXIMUM DRAINAGE. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. PLANING AT INLETS SHALL BE INCIDENTAL TO ITEM 254. PAVEMENT PLANING, BITUMINOUS CALCULATIONS FOR ROADWAY. THE FINAL PLANING DEPTHS SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. THE INTENT OF THE PLANING IS TO MAINTAIN PROPER CURB HEIGHT AND CREATE MORE EFFICIENT DRAINAGE AT INLETS.

AFTER THE PLANING OPERATION HAS BEEN PERFORMED ON ALL DESIGNATED AREAS AND PATCHING OF PLANED SURFACE HAS BEEN ACCOMPLISHED WHERE NEEDED AS DETERMINED BY THE ENGINEER, THE ENTIRE PAVEMENT WIDTH SHALL BE OVERLAID WITH ITEM 448 ASPHALT CONCRETE. SEE DRAWING BP-3.1, 2-21-92 FOR ADDITIONAL INFORMATION FOR RESURFACING. PAYMENT WILL BE FOR THE ACTUAL AMOUNT OF SQ.YDS. AS MEASURED BY THE ENGINEER.

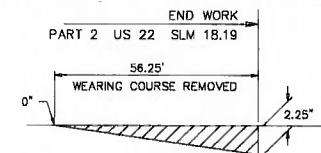
QUANTITIES FOR PLANING HAVE BEEN SHOWN IN THEIR RESPECTIVE AREAS ON SHEETS 57 THRU 60.

DETAILS SHOWING PLANING DEPTHS HAVE BEEN SHOWN WITH THE PAVEMENT MARKING SHEETS. (SHEET 20 THRU 48.)

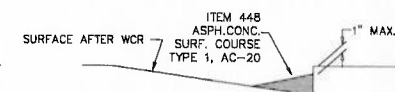
BUTT JOINT

A BUTT JOINT WILL BE REQUIRED AT THE FOLLOWING LOCATION IN ORDER TO PROVIDE A SMOOTH TRANSITION AT THE END OF PART 2. EXTRA QUANTITIES OF ITEM 407 TACK COAT AND ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20 HAVE BEEN INCLUDED TO REDUCE THE DEPTH OF THE WEARING COURSE REMOVED DROP OFF (SEE DETAIL). THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

PART 2
ITEM 202 WEARING COURSE REMOVED 188 SQ.YD.
ITEM 448 ASPH. CONC., SURFACE COURSE, TYPE 1, AC-20 2 CU.YD.
ITEM 407 TACK COAT 5



WEARING COURSE REMOVED DETAIL



DETAIL OF DROP OFF REDUCTION

GENERAL NOTES

LIQUIDATED DAMAGES FOR EXCESSIVE TIME BETWEEN PLANING AND PAVING

NO MORE THAN 21 CALENDAR DAYS SHALL ELAPSE BETWEEN THE TIME THE PAVEMENT PLANING OPERATION COMMENCES AND THE APPLICATION OF THE ITEM 448, ASPHALT CONCRETE-LIQUIDATED DAMAGES, AS DESCRIBED IN SECTION 108.07 OF THE STATE OF OHIO, CONSTRUCTION AND MATERIAL SPECIFICATIONS WILL BE DEDUCTED FROM ANY MONEY DUE THE CONTRACTOR FOR ALL DAYS IN EXCESS OF THE TIME LIMITS DESCRIBED ABOVE.

ITEM 632 LOOP DETECTOR REPLACEMENT

THIS ITEM IS SET UP TO BE USED AS DIRECTED BY THE ENGINEER IF THE EXISTING LOOP DETECTOR BECOMES DAMAGED IN ANY WAY DURING THE CONSTRUCTION OF THIS PROJECT. DISTURBED LOOP DETECTORS SHALL BE ABANDONED IN PLACE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING NECESSARY MATERIAL FOR LOOP DETECTOR REPLACEMENT; HOWEVER, THE CITY OF ZANESVILLE WISHES TO BE INVOLVED IN THE ACTUAL LAYOUT AND PLACEMENT OF LOOPS PRIOR TO RESURFACING. THIS WILL BE DISCUSSED AT THE PRE-CONSTRUCTION CONFERENCE. THE CONTACT PERSON FOR THE CITY OF ZANESVILLE WILL BE FRED BUCK, (614) 455-0700. EACH DETECTOR SHALL BE REPLACED AT THE SAME LOCATION. DETAILS ARE SHOWN ON STANDARD DRAWING TC-82.10 DATED 8-29-84. THE NEW LOOP DETECTOR SHALL BE RUN INTO THE EXISTING CONTROL BOX. ALL NECESSARY MATERIAL AND EQUIPMENT SHALL BE INCIDENTAL TO THE PAYMENT OF THESE ITEMS. THE CITY OF ZANESVILLE WILL BE RESPONSIBLE FOR ACTUAL LABOR OF PLACING LOOPS. THE ESTIMATED QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 632 LOOP DETECTOR WIRE, TYPE E, AS PER PLAN

PART	3	4	6	7	8
LIN.FT.	456	3106	756	234	234

ITEM 632 LOOP DETECTOR LEAD-IN CABLE

PART	3	4	6	7	8
LIN.FT.	166	850	202	36	24

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-148-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHECKED BY	
DATE	
PLAN NO.	

6
80

ITEM 254 - PATCHING PLANED SURFACE

A QUANTITY OF SURFACE PATCHING HAS BEEN ADDED TO THE PLAN TO REPLACE UNSOUND PAVEMENT RESULTING FROM PLANING. AREAS TO RECEIVE THIS TREATMENT SHALL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

ITEM 254 PATCHING PLANED SURFACE

PART	1	3	4	5	6	7	8
SQ.YD.	1300	1086	2000	70	560	200	505

REFERENCE

DETAILED DRAWINGS OF THE EXISTING STRUCTURE MAY BE INSPECTED IN THE DISTRICT 5 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, JACKSONTOWN, OHIO.

MUS-60-16.88
U-400 (13) AND ISSUE #1

MAINTAINING DROP OFFS (PART 8)

DUE TO THE PROPOSED RESURFACING OF 3", THE 617 FOR THE BERMS SHALL BE PLACED IN TWO OPERATIONS. THE FIRST OPERATION SHALL RAISE THE BERMS TO WITHIN ONE INCH OR LESS OF THE EDGE OF PAVEMENT SURFACE AFTER THE INTERMEDIATE COURSE HAS BEEN APPLIED. THE SECOND OPERATION SHALL RAISE THE BERMS FLUSH WITH THE EDGE OF PAVEMENT AFTER THE SURFACE COURSE HAS BEEN APPLIED.

WHEN PAVING THE INTERMEDIATE COURSE ON THE MAINLINE, BOTH SIDES OF THE ROADWAY (EASTBOUND AND WESTBOUND) SHALL BE PAVED EQUALLY (BEGINNING AND ENDING AT THE SAME SLM) AT THE END OF EACH CONSTRUCTION DAY THAT PAVING IS TAKING PLACE ON THE INTERMEDIATE COURSE. THIS WILL ELIMINATE THE 1.75" DROP BETWEEN LANES OVERNIGHT. TRAFFIC CONTROL SHALL ALSO BE SET UP SO THAT TRAFFIC IS NOT ALLOWED TO PASS OVER THE 1.75" LONGITUDINAL JOINT.

GENERAL NOTES

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHKD. BY _____	
DATE _____	

7
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ITEM 604 - CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN

CATCH BASINS SHOWN ON SHEETS 21-33, 48 AND 49 SHALL BE RECONSTRUCTED TO GRADE AS WRITTEN IN THE CMS MANUAL EXCEPT FOR THE FOLLOWING: ALL FRAMES, GRATES, CONCRETE, BRICKS, MORTAR, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO RECONSTRUCT CATCH BASINS SHALL BE PAID FOR UNDER ITEM 604 CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN. WALLS OF CATCH BASINS SHALL BE REMOVED BEYOND THE POINT OF DETERIORATION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM A FIELD INSPECTION PRIOR TO BIDDING AND CONSTRUCTION OF THIS PROJECT IN ORDER TO ESTIMATE QUANTITIES OF CONCRETE NEEDED AND SIZES OF FRAMES AND GRATES. AT NO TIME SHALL EXISTING SIDEWALK BE DAMAGED DUE TO THE RECONSTRUCTION OF ANY CATCH BASIN; IF EXISTING SIDEWALK SHOULD BE DAMAGED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR DAMAGED AREAS AT THE CONTRACTOR'S EXPENSE. ANY SIDEWALK DIRECTLY INVOLVED WITH AN INDIVIDUAL CATCH BASIN TO BE RECONSTRUCTED SHALL BE REPLACED AT THE ELEVATION IT WAS PRIOR TO RECONSTRUCTION, ALL MATERIALS REQUIRED FOR THIS SHALL BE INCIDENTAL TO BID ITEM 604 CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN. WHEN CATCH BASINS ARE BEING RECONSTRUCTED THEY SHALL BE CLEANED FREE OF ALL DEBRIS; IF WALLS OF CATCH BASINS NEED TO BE REMOVED BELOW EXISTING WINDOWS, INLET OR OUTLET PIPES, PROPOSED WALLS SHALL BE CAST-IN-PLACE AS WAS ORIGINALLY DESIGNED. INLET AND OUTLET PIPES SHALL BE STUBBED IN TO EXISTING PIPES. CATCH BASINS SHALL BE ADJUSTED TO GRADE AS APPROVED BY THE ENGINEER. FINAL GRATE ELEVATIONS SHALL BE APPROVED BY THE ENGINEER. AT THE TIME OF CONSTRUCTION; GRATES SHALL BE LOCATED TO ACHIEVE MAXIMUM DRAINAGE.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

ITEM 604 CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN
2 EACH(PART 1) 8 EACH(PART 3) 2 EACH(PART 8)

ITEM 604 - INLET RECONSTRUCTED TO GRADE, AS PER PLAN

THE INLETS SHOWN ON SHEETS 21 AND 31 SHALL BE RECONSTRUCTED TO GRADE AS WRITTEN IN THE CMS MANUAL EXCEPT FOR THE FOLLOWING: THE LENGTH OF THE CASTING SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO THE PRECONSTRUCTION MEETING. THE NEW CASTING SHALL BE THE SAME SIZE AS EXISTING AND INSTALLED AT THE MOST OPTIMUM ELEVATION FOR DRAINAGE; ALSO, THE ELEVATIONS SHOULD BE COMPATIBLE WITH THE EXISTING CURB IN THIS AREA. ALL WORK SHALL MEET THE APPROVAL OF THE ENGINEER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM A FIELD INSPECTION PRIOR TO BIDDING AND CONSTRUCTION OF THIS PROJECT IN ORDER TO ESTIMATE QUANTITIES OF CONCRETE NEEDED AND SIZES OF CASTINGS AND COVERS IF DEEMED NECESSARY BY THE ENGINEER. AT NO TIME SHALL EXISTING SIDEWALK BE DAMAGED DUE TO THE RECONSTRUCTION OF ANY INLET; IF EXISTING SIDEWALK SHOULD BE DAMAGED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR DAMAGED AREAS AT THE CONTRACTOR'S EXPENSE. ANY SIDEWALK DIRECTLY INVOLVED WITH AN INDIVIDUAL INLET TO BE RECONSTRUCTED SHALL BE REPLACED AT THE ELEVATION IT WAS PRIOR TO RECONSTRUCTION, ALL MATERIALS REQUIRED FOR THIS SHALL BE INCIDENTAL TO BID ITEM 604 INLET RECONSTRUCTED TO GRADE, AS PER PLAN. ANY OTHER MATERIALS NECESSARY FOR COMPLETING THIS WORK (MANHOLE COVER, ETC.) SHALL BE CONSIDERED INCIDENTAL TO BID INLET RECONSTRUCTED TO GRADE, AS PER PLAN AND SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

MATERIALS, LABOR, EQUIPMENT, TOOLS, CASTINGS, COVERS, FRAMES, CONCRETE, BRICKS, MORTAR, AND INCIDENTALS NECESSARY TO RECONSTRUCT DESIGNATED INLETS SHALL BE PAID FOR UNDER ITEM 604 INLET RECONSTRUCTED TO GRADE, AS PER PLAN.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

ITEM 604 INLET RECONSTRUCTED TO GRADE, AS PER PLAN
1 EACH(PART 1) 1 EACH(PART 3)

GENERAL NOTES

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHECKED BY _____	
DATE _____	

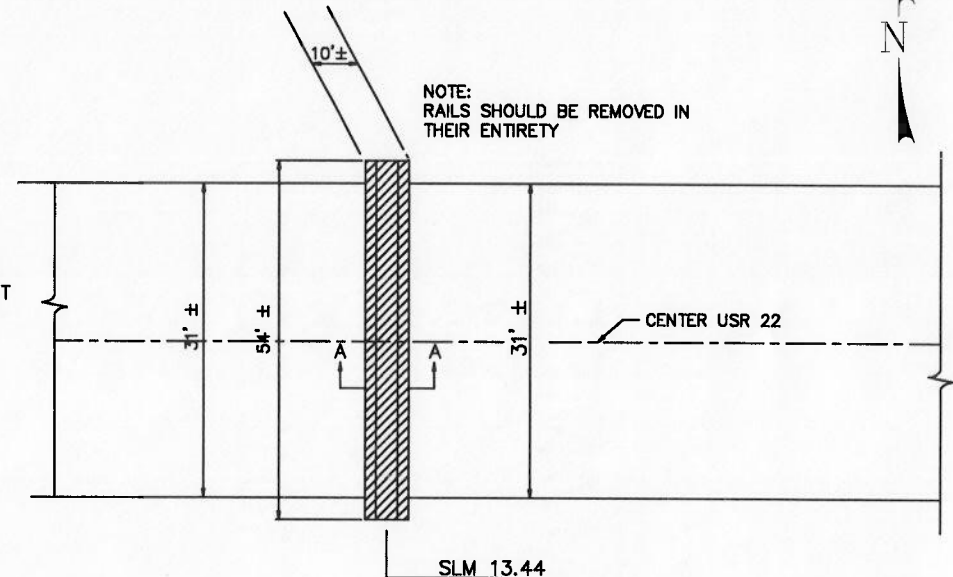
8
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ITEM SPECIAL — RAILROAD TRACKS AND TIES REMOVED

THE EXISTING RAILROAD TRACKS, TIMBERS, AND TIES LOCATED ON USR 22, SLM 13.44 SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. (SEE DETAIL ON THIS SHEET) THE AREA WHERE THE TRACKS AND TIES ARE REMOVED SHALL BE SHAPED AND COMPACTED TO THE SATISFACTION OF THE ENGINEER. ITEM 301, BITUMINOUS AGGREGATE BASE SHALL BE FURNISHED BY THE CONTRACTOR TO FILL THE VOID RESULTING FROM THE REMOVAL OF THE TRACKS AND TIES. THE BITUMINOUS AGGREGATE BASE SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE CMS MANUAL TO THE LEVEL OF THE EXISTING PAVEMENT PRIOR TO APPLYING ITEM 448, ASPHALT CONCRETE, TO THE ROADWAY. THE RAILS, TIMBERS AND TIES THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. PAVEMENT CROSS SLOPES SHALL BE THE SAME AS ADJACENT PAVEMENT. TRAFFIC SHALL BE MAINTAINED DURING THE REMOVAL AND REPLACEMENT OPERATION.

THE COST OF THIS ITEM SHALL INCLUDE REMOVING THE RAILS, TIMBERS AND TIES, SHAPING AND COMPACTING THE AREA, FURNISHING AND PLACING THE BITUMINOUS AGGREGATE BASE, ALL EQUIPMENT, LABOR AND INCIDENTAL ITEMS NECESSARY TO COMPLETE THE ITEM TO THE SATISFACTION OF THE ENGINEER AND SHALL BE PAID FOR AS —

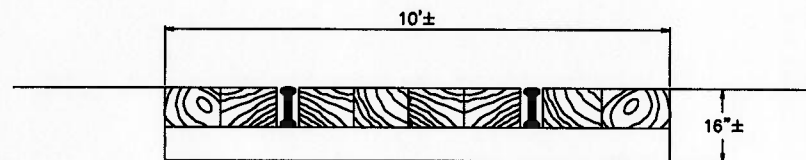
ITEM SPECIAL — RAILROAD CROSSING REMOVED LUMP (PART 2)



NOTE:
RAILS SHOULD BE REMOVED IN
THEIR ENTIRETY

NOTE:
CROSS HATCHING DENOTES AREA
WHERE TRACKS AND TIES ARE
TO BE REMOVED.

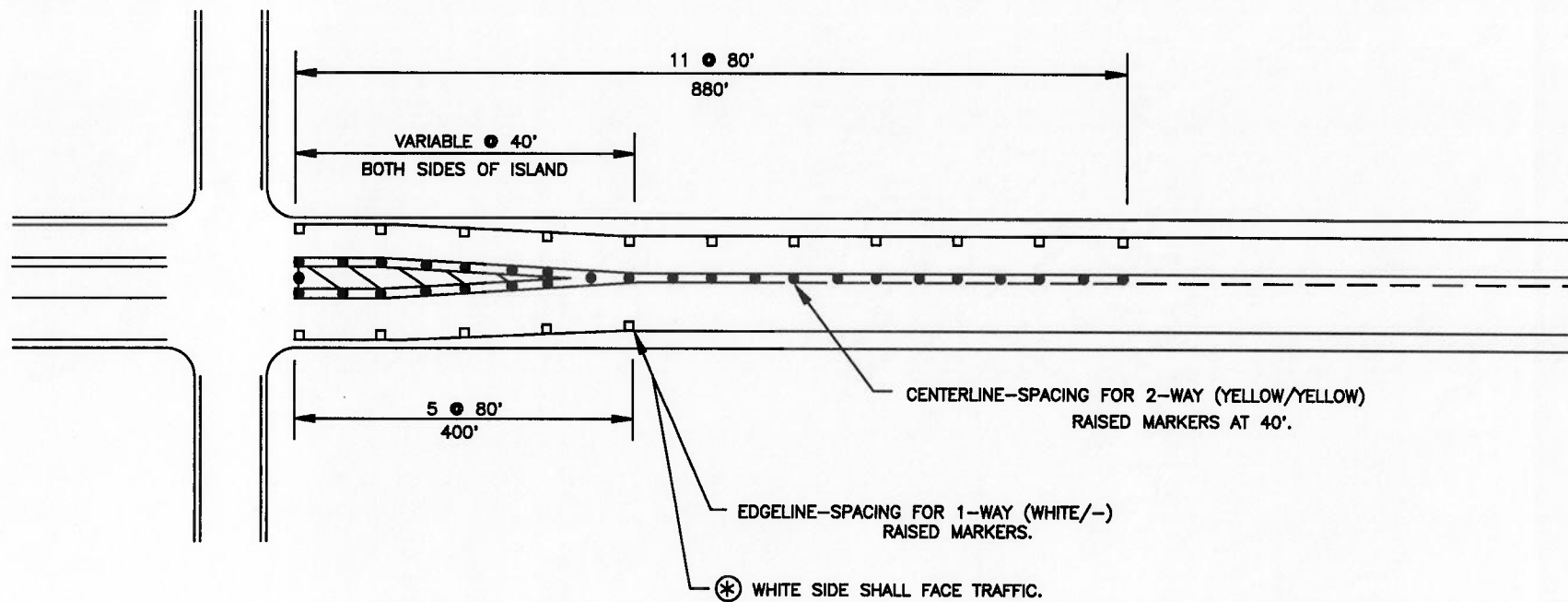
PLAN
RAIL ROAD TRACKS AND TIES REMOVAL DETAIL



SECTION A-A

PLAN NO. 123

APPLICATION OF PLOWABLE PRISMATIC REFLECTOR TYPE PAVEMENT MARKERS AT THRU APPROACHES

**LEGEND**

- 2-WAY RAISED MARKERS
- 1-WAY RAISED MARKERS

DETAIL 8-MOD

NOTE: Markers installed at the double yellow centerline shall be placed between the two painted lines. Markers installed along an edge or channelizing line shall be placed so that the near edge of the marker casting is no more than 1/4 inch from the near edge of the painted line. Markers installed along a lane line or dashed yellow centerline shall be placed between and in line with the dashes. Markers shall not be placed over the painted lines except where the lines deviate visibly from their correct alignment, and then only with the approval of the Engineer.

DETAIL 8-MOD

LOCATION SUB-SUMMARY

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHD. BY	
DATE	
PLAN NO.	

10
80

DETAIL	
1	MULTILANE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

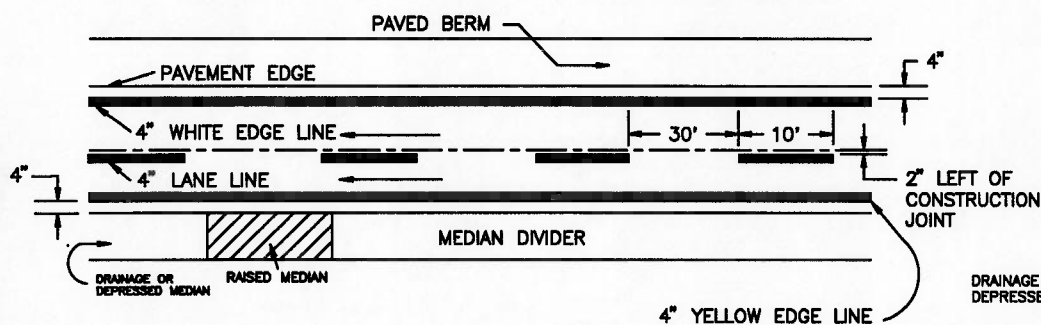
DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/LT. TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/LT. TURN LANE

DETAIL	
10	4 LANE DIVIDED TO 2 LANE TRANSITION
11	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN LANE
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE

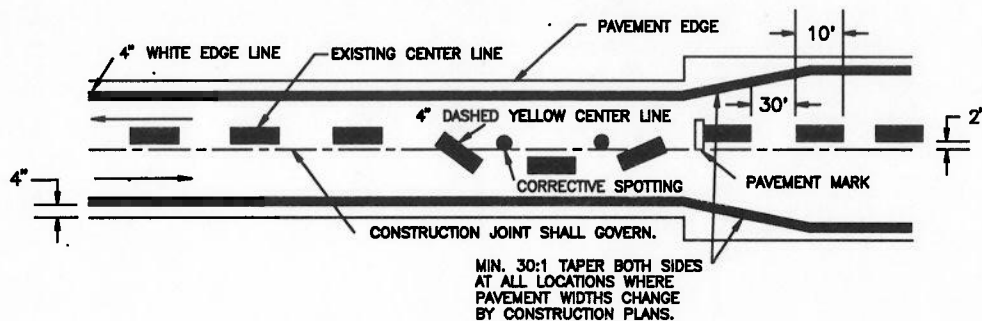
DETAIL	
16	HORIZONTAL CURVE ALT.
17	STOP APPROACH ALT.
GAP	CENTERLINE AT 80' TYP.

P A R T	LOCATION				D E T A I L		RPM	PRISMATIC RETRO- REFLECTOR	INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION						RPM			ONE-WAY		TWO-WAY			
			FROM	TO								WHITE	YELLOW	WHITE/ WHITE	YELLOW/ YELLOW	WHITE/ RED	
1	MUS	US 22	13.17	13.36	6		64					38			26	WEST OF RICHARDS RD.	
1		TOTAL					64					38			26		
2	MUS	US 22	13.36	13.38	6		2					1			1	WEST OF RICHARDS RD.	
	MUS	US 22	13.38	13.59	17		72					39			33	EAST OF RICHARDS RD.	
	MUS	US 22	13.38				9					9				CHANNEL LINE AT RICHARDS RD. AND SHOPPING DR.	
	MUS	US 22	13.49	13.97	REMARK		32								32	CLIMBING LANE 80' SPACING	
	MUS	US 22	13.59	13.97	15		50								50		
	MUS	US 22	13.97	14.47	13		132								132		
	MUS	US 22	14.47	14.64	8-MOD		61					16			45	AT CR 5	
	MUS	US 22	14.64	14.67	REMARK		15					11			4	CHANNEL LINE 20' SPACE CL 40' SPACE	
	MUS	US 22	14.67	14.84	8-MOD		43					16			27	AT SR 93	
	MUS	US 22	14.84	17.81	15		392								392		
	MUS	US 22	17.50	17.74	REMARK		16								16	CLIMBING LANE 80' SPACING	
	MUS	US 22	17.80	17.81	REMARK		4					4				CHANNEL LINE AT HOLIDAY INN 20' SPACING	
	MUS	US 22	17.81	17.98	8-MOD		38					16			22	AT HOLIDAY INN	
	MUS	US 22	17.98	18.09	15		15								15		
	MUS	US 22	18.09	18.19	17		18					6			12	AT SR 797 EL AT 80' CL AT 40'	
2		TOTAL					899					118			733	48	
COUNTY AND SHEET SUB--TOTALS																	

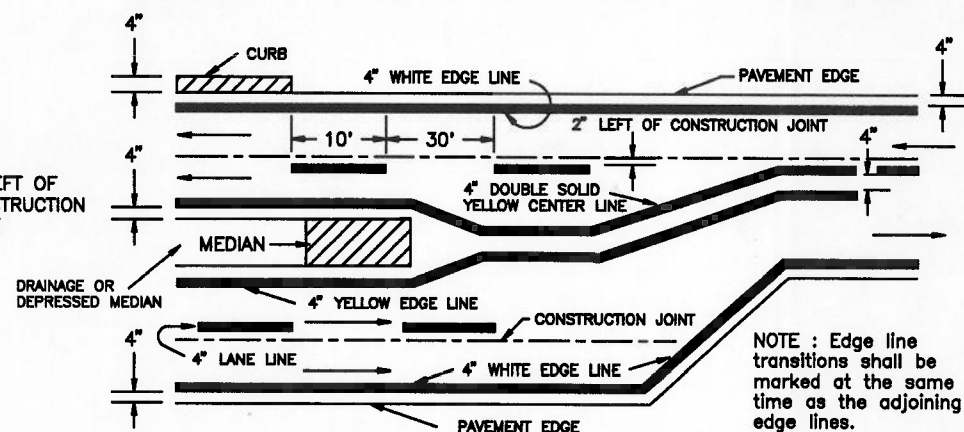
FREEWAY & EXPRESSWAY MAINLINE MARKINGS



TWO LANE MARKINGS



MULTILANE DIVIDED & UNDIVIDED HIGHWAY MARKINGS



NOTES:

1. The distance from the pavement edge to the nearside edge of the edgeline may be increased with the approval of the engineer in order to maintain uniform lane width.
2. See TC-72.20 for entrance and exit ramp markings.
3. The cycle length for dashed lines shall be 40 feet plus or minus 6 inches. The minimum length of dash shall be sufficiently long to maintain a 3:1 ratio between length of gap and length of dash.

Ohio Department of Transportation

Pavement Marking
Typical Details

DATE
11-80
9-90
9-91

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

13
80

QUANTITIES INCLUDE CL AROUND OUTSIDE OF PAINTED ISLAND

[illegible]

CALC. BY _____ DATE _____	
CHG'D. BY _____ DATE _____	PLAN NO.

07-06-94 (MAINT - C) M22LL MD-14

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

15
80

07-06-94 (MAINT - C) M22EL MD-14

PAVEMENT MARKING SUB-SUMMARY

DEPARTMENT OF TRANSPORTATION
M&R707 REV. 9-1-83

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHKD. BY _____	
DATE _____	

16
80

644 THERMOPLASTIC

CO.	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE 24" LIN.FT.	12" CROSSWALK LINES		WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT EACH	DOTTED LINES		8" CHANNEL LINE LIN.FT.	REMARKS
			WHITE	YELLOW		WHITE		ONLY	SCHOOL			TURN		THRU	COMB.		WHITE	YELLOW		
			LIN.FT.	LIN.FT.		LIN.FT.	LIN.FT.	EACH	EACH	EACH	EACH	LEFT	RIGHT	EACH	EACH		LIN.FT.	LIN.FT.		
PART 1	ZANESVILLE																			
	ON SR 22 @ MAIN ST.				19	94														SEE SHEET 20
	GREENWOOD AVE.	RT			17	78														SEE SHEET 20
	ALLEY	LT			6	22														SEE SHEET 20
	ALLEY	RT			9	34														SEE SHEET 20
	ALLEY	LT			7	28														SEE SHEET 21
	ALLEY	RT			7	26														SEE SHEET 21
	ON US 22 BEFORE MARKET ST.				12															SEE SHEET 21
	ON US 22 AFTER MARKET ST.				26	86	2					1		1					89	SEE SHEET 21
	ALLEY	LT			6	24														SEE SHEET 21
	BEULAH AVE.	LT			12	46														SEE SHEET 21
	LAFAYETTE ST.	LT			15															SEE SHEET 22
	STREET	LT			11															SEE SHEET 22
	MC OWEN ST.	RT			12	58														SEE SHEET 22
	ALLEY	RT			6	22														SEE SHEET 22
	GLESSNER AVE.	RT			15	60														SEE SHEET 22
	ON US 22 BEFORE HAMLINE AVE.					76														SEE SHEET 23
	HAMLINE AVE.	LT			15															SEE SHEET 23
	ALLEY	RT			8	32														SEE SHEET 23
	STREET	LT			25															SEE SHEET 23
	GREEN ST.	RT			18	70														SEE SHEET 23
	FOX AVE.	LT			16	62														SEE SHEET 23
	STREET	RT			15	58														SEE SHEET 23
	ON US 22 BEFORE CEMETERY AVE.				17	98														SEE SHEET 24
	CEMETERY AVE.	LT			14															SEE SHEET 24
	STREET	RT			16	58														SEE SHEET 24
	ON US 22 AFTER CEMETERY AVE.				21															SEE SHEET 24
	ALLEY	RT			15	62														SEE SHEET 24
PART 1	TOTALS				360	1094	2					1		1					89	
PART 2	RURAL																			
	ON US 22 BEFORE RICHARDS RD.				27															SEE SHEET 26
	RICHARDS RD.	RT			30															SEE SHEET 26
	ON US 22 AFTER RICHARDS RD.				22			1				1							82	SEE SHEET 26
	ON US 22 BEFORE SHOPPING CENTER DR.							1				1							61	SEE SHEET 26
	BRIARCLIFF DR.	RT			17															SEE SHEET 26
	ON US 22 @ SLM 13.97				58															SEE SHEET 27
	WESTWOOD DR.	RT			22															SEE SHEET 27
	ON US 22 @ SLM 14.14											2								SEE SHEET 27
	EASTWOOD DR.	RT			20															SEE SHEET 27
	CLAYTON LANE	LT			10															SEE SHEET 27
	ON US 22 @ SLM 14.22											2								SEE SHEET 28
	DOWNING DR.	RT			18															SEE SHEET 28
	ON US 22 @ SLM 14.41											2								SEE SHEET 28
	PART 2 CONTINUED ON NEXT SHEET																			

MD-14

07-06-94 (VAINT - C) M22PMSS1

PAVEMENT MARKING SUB-SUMMARY

DEPARTMENT OF TRANSPORTATION
M&R707 REV. 9-1-83

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	PLAN NO. _____
CHD. BY _____ DATE _____	

17
80

644 THERMOPLASTIC

CO.	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE 24" LIN.FT.	12" CROSSWALK LINES WHITE LIN.FT.	WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT EACH	DOTTED LINES WHITE LIN.FT.	ISLAND MARKING SQ.FT.	8" CHANNEL LINE LIN.FT.	REMARKS
			WHITE LIN.FT.	YELLOW LIN.FT.			TURN				THRU EACH	COMB. EACH							
							72" EACH	96" EACH	72" EACH	96" EACH			LEFT EACH	RIGHT EACH					
	PART 2 CONTINUED FROM PREVIOUS SHEET																		
	RICHLINE WAY	LT			12													SEE SHEET 28	
	ON US 22 BEFORE S.PLEASANT			185												57		SEE SHEET 29	
	S. PLEASANT GROVE RD.	RT			30													SEE SHEET 29	
	ON US 22 AFTER S. PLEASANT GR. RD.							1			1						80	SEE SHEET 29	
	ON US 22 BEFORE SR 93							1			1						126	SEE SHEET 29	
	ON US 22 AFTER SR 93			56													57	SEE SHEET 29	
	ON US 22 BEFORE HOLIDAY INN							1			1							78	SEE SHEET 30
	ON US 22 AFTER HOLIDAY INN			28													57		SEE SHEET 30
PART 2	TOTALS			327	208			2	3		11						171	427	
PART 3	US 40																		
	OAKLAND AVE	LT			22														PLACE 24' FROM CL US 40
	GANT ST.	LT			16	76													
	TOWNSEND ST.	LT				54													
	MICHIGAN ST.	LT			9	36													SEE SHEET 31
	GRAHAM ST.	LT			20	80													SEE SHEET 31
	GRAHAM ST.	RT			16	64													SEE SHEET 31
	ALLEY	LT			9	36													SEE SHEET 31
	ALLEY	RT			11	44													SEE SHEET 31
	ON US 40 BEFORE STATE ST.				26	104	1				1			2				92	SEE SHEET 31
	STATE ST.	LT			28	88													SEE SHEET 31
	STATE ST.	RT			31	122													SEE SHEET 31
	ON US 40 AFTER STATE ST.				22	108						1		1				58	SEE SHEET 31
	AUGUSTA ST.	RT			17	66													SEE SHEET 31
	ALLEY	RT			8	32													SEE SHEET 31
	OSAGE ST.	RT			15	60													SEE SHEET 32
	YOUNG ST.	LT			11	42													SEE SHEET 32
	MELROSE AVE.	RT			14	54													SEE SHEET 32
	ON US 40 @ FLASHING LIGHT					92													SEE SHEET 32
	ON US 40 BEFORE RIDGE ST.				15	100													SEE SHEET 32
	RIDGE ST.	RT			12	68													SEE SHEET 32
	BEAUMONT AVE.	LT			18	70													SEE SHEET 32
	ON US 40 AFTER BEAUMONT AVE.				26		1				2			2				145	SEE SHEET 32
	LUCK AVE.	RT			22	74													SEE SHEET 32
	ALLEY	RT			9	36													SEE SHEET 33
	ON US 40 BEFORE PINE ST.				31	112	1					2		3				203	SEE SHEET 33
	PINE ST.	LT			14	88													SEE SHEET 33
	PINE ST.	RT			40	116													SEE SHEET 33
	ON US 40 AFTER PINE ST.				26	108	1				2			2				103	SEE SHEET 33
	ON US 40 @ Y-BRIDGE										1	1						62	SEE SHEET 33
PART 3	TOTALS				488	1930	4				6	4		10				663	

MD-14

07-06-94 (MAINT - C) M22PMSS2

PAVEMENT MARKING SUB-SUMMARY

DEPARTMENT OF TRANSPORTATION
M&R707 REV. 9-1-83

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

DATE BY _____	PLAN NO.
DATE BY _____	

18
80

644 THERMOPLASTIC

CO.	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE	12" CROSSWALK LINES		WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT	DOTTED LINES	ISLAND MARKING	8" CHANNEL LINE	REMARKS
			WHITE LIN.FT.	YELLOW LIN.FT.		24" LIN.FT.	WHITE LIN.FT.	ONLY SCHOOL				TURN		THRU	COMB.					
								72" EACH	96" EACH	72" EACH	96" EACH	LEFT EACH	RIGHT EACH							
PART 4	SR 60-ZANESVILLE																			
	ON SR 60 BEFORE MARKET ST.		114		39	182						1		1	1			110	SEE SHEET 34	
	MARKET ST.	LT			25													18	SEE SHEET 34	
	MARKET ST.	RT			16	118													SEE SHEET 34	
	ON SR 60 AFTER MARKET ST.				42	180	2					2	2	2				224	SEE SHEET 34	
	BLOCKSOM ALLEY	LT			10	30													SEE SHEET 34	
	ON SR 60 BEFORE ORCHARD ST.											1						72	SEE SHEET 35	
	ORCHARD ST.	LT			18	104													SEE SHEET 35	
	ORCHARD ST.	RT			31	116													SEE SHEET 35	
	ON SR 60 AFTER ORCHARD ST.			88													57		SEE SHEET 35	
	MEADOW ALLEY	LT			14	36													SEE SHEET 35	
	ON SR 60 @ EASTMAN ST.											1						60	SEE SHEET 35	
	EASTMAN ST.	RT			15	132													SEE SHEET 35	
	SHINNICK ST.	LT			25	116													SEE SHEET 35	
	ON SR 60 AFTER SHINNICK ST.											1						80	SEE SHEET 35	
	ON SR 60 BEFORE RAMP O				37									1				79	SEE SHEET 36	
	ELBERON AVE	LT			34	106													SEE SHEET 36	
	RAMP O	RT				106													SEE SHEET 36	
	ON SR 60 AFTER ELBERON AVE.				24									2	2			160	SEE SHEET 36	
	ON SR 60 BEFORE ELM ST.				32		1					2						120	SEE SHEET 36	
	RAMP M AND ELM ST.	LT				184													SEE SHEET 36	
	ELM ST.	RT			33	84													SEE SHEET 36	
	ON SR 60 AFTER ELM ST.				30									2	2			147	SEE SHEET 36 & 37	
	ON SR 60 BEFORE HOWARD ST.						1					2						178	SEE SHEET 37	
	HOWARD ST.	LT			28	152													SEE SHEET 37	
	HOWARD ST.	RT			37	182													SEE SHEET 37	
	ON SR 60 AFTER HOWARD ST.						1					2						207	SEE SHEET 37	
	ON SR 60 BEFORE SR 666				40		1					2						228	SEE SHEET 37 & 38	
	ZANE ST.	LT			33	156												22	SEE SHEET 38	
	SR 666	RT	(SEE PART 8)																	
	ON SR 60 AFTER ZANE ST.				43		1					2						150	SEE SHEET 38	
	PART 5																			
	CENTRAL AVE.	RT			20	96													SEE SHEET 42	
	CENTRAL AVE.	LT			14	110													SEE SHEET 42	
	ALLEY	RT			10	52													SEE SHEET 42	
	ALLEY	LT			10	40													SEE SHEET 42	
	ON SR 60 BEFORE LINDEN AVE.				46	220	2					2		4	2			606	SEE SHEET 42	
	LINDEN AVE.	RT			35	216						1	1	1				156	SEE SHEET 42	
	LINDEN AVE.	LT			24	164						1		1	1			64	SEE SHEET 42	
	ON SR 60 AFTER LINDEN AVE.				60	202	1					2		2	2			300	SEE SHEET 42 & 43	
	ALLEY	RT			10	40													SEE SHEET 42	
	PETER'S ALLEY	LT			15	72													SEE SHEET 43	
	BLUE ST.	RT			15	126													SEE SHEET 43	
	EUCLID AVE.	RT			28	130													SEE SHEET 43	
	ON SR 60 AFTER EUCLID AVE.						1					2						25	SEE SHEET 43	
	ALLEY	LT			15	60												170	SEE SHEET 43	
	PART 4 CONTINUED ON NEXT SHEET																		SEE SHEET 44	

PAVEMENT MARKING SUB-SUMMARY

* STREETS ARE LISTED IN
DIRECTION OF CONSTRUCTION
REVERSE OF ACTUAL SLM'S.

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CMD. BY	
DATE	
PLAN NO.	

19
80

644 THERMOPLASTIC

CO.	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE	12" CROSSWALK LINES	WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT	DOTTED LINES	ISLAND MARKING	8" CHANNEL LINE	REMARKS
			WHITE LIN.FT.	YELLOW LIN.FT.			24" LIN.FT.	WHITE LIN.FT.	TURN		THRU	COMB.							
					72" EACH	96" EACH			72" EACH	96" EACH			LEFT EACH	RIGHT EACH					
	PART 4 CONTINUED FROM PREVIOUS SHEET																		
	ALLEY	RT			10	40													
	ON SR 60 BEFORE MAPLE AVE.				59	220	1			2	1	2					431	SEE SHEET 44	
PART 4	TOTALS		114	88	977	3772	12			26	4	18	10			57	3607	SEE SHEET 44	
PART 6	SR 60 DA-N *																		
	MAPLE AVE.	LT			37	144											10	SEE SHEET 44	
	MAPLE AVE.	RT			36	162											10	SEE SHEET 44	
	ON SR 60DA-N AFTER MAPLE AVE.				46	184	1			2		2	2				280	SEE SHEET 44	
	ALLEY	RT			15	50												SEE SHEET 44	
	ALLEY	LT			9	30												SEE SHEET 44	
	ON SR 60DA-N BEFORE ASHLAND AVE.					140					1	1					59	SEE SHEET 45	
	ASHLAND AVE.	RT			20	88												SEE SHEET 45	
	ON SR 60DA-N AFTER ASHLAND AVE.						1			2	2	2					249	SEE SHEET 45	
	CULBERTSON AVE.	LT			20	86												SEE SHEET 45	
	ON SR 60DA-N BEFORE MYRTLE AVE										1	1					45	SEE SHEET 45	
	MYRTLE AVE.	RT			20	94												SEE SHEET 45	
	HAZEL AVE.	RT			15	60												SEE SHEET 45	
	CONVERS AVE.	LT			12	64												SEE SHEET 45	
	ON SR 60DA-N BEFORE BLUE AVE.				24	130	1			1			1				56	SEE SHEET 46	
PART 6	TOTALS				254	1232	3			5	4	6	3				709		
PART 7	SR 146-ZANESVILLE *																		
	BLUE AVE.	LT				98												SEE SHEET 46	
	BLUE AVE.	RT				60												SEE SHEET 46	
	ON SR 146 AFTER BLUE AVE.				20	100	1			1			2				87	SEE SHEET 46	
	ALLEY	LT			6	30													
	EDWARDS LANE	RT			18													PLACE 25' FROM CL SR 146	
	MARWOOD DR.	RT			18													PLACE 28' FROM CL SR 146	
	NEWARK RD.	LT			15													PLACE AS DIRECTED	
PART 7	TOTALS				77	288	1			1			2				87		
PART 8	SR 666-ZANESVILLE																		
	ON SR 666 @ SR 60				28	136	1			2			2				138	SEE SHEET 47	
	MONROE ST.	RT			18													PLACE 42' FROM CL SR 666	
	MALINDA ST.	LT			32													PLACE 25' FROM CL SR 666	
	MILL ST.	LT			15													PLACE 21' FROM CL SR 666	
	GATTRELL ST.	RT			14													PLACE 25' FROM CL SR 666	
	FURNACE ST.	LT			10													PLACE 23' FROM CL SR 666	
	ON SR 666 AT ADAMSVILLE RD.				22					1							80	SEE SHEET 48	
	MITCHELL AVE.	RT			30													PLACE 23' FROM CL SR 666	
	ALLEY	RT			18													PLACE 19' FROM CL SR 666	
	RIVERSIDE PARK DR.	LT			22													PLACE 18' FROM CL SR 666	
	BUCKEYE DR.	RT			20													PLACE 18' FROM CL SR 666	
PART 8	TOTALS				229	136	1			3			2				218		
PART 11	OAK PARK DR.				18													PLACE 30' FROM CL US 22	

MD-14

07-06-94 (MAINT - C) M222PMSS4

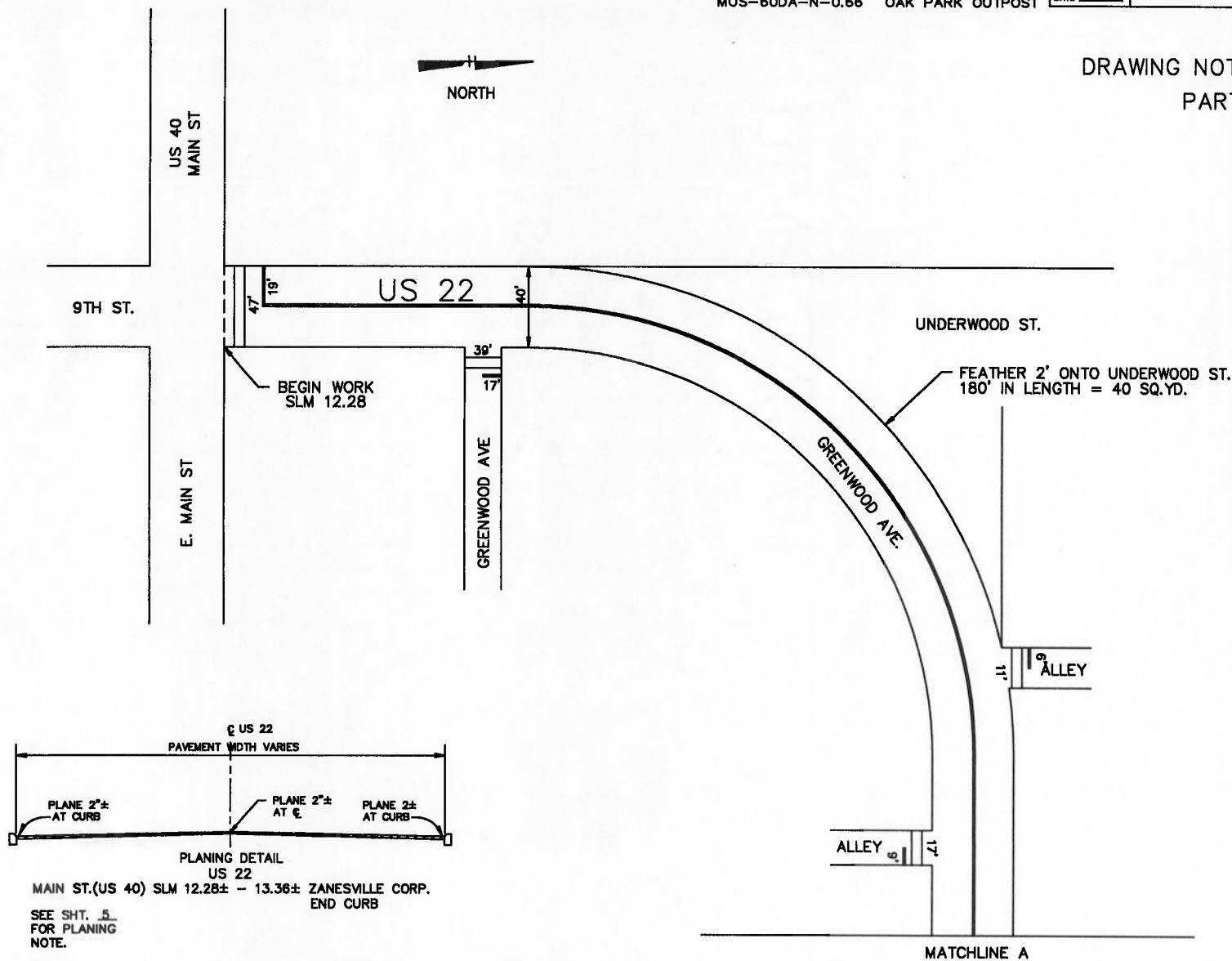
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 MUS-40-10.35
 MUS-60-17.14
 MUS-60DA-N-0.66

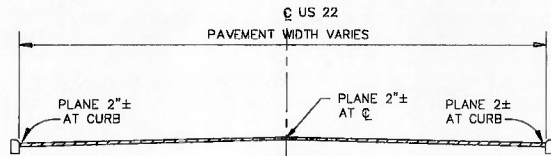
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 MUS-666-0.00
 MUS.CO.GARAGE
 OAK PARK OUTPOST

CALC. BY _____	
DATE _____	
CHKD. BY _____	PLAN NO.
DATE _____	

20
80

DRAWING NOT TO SCALE
 PART 1





MAIN ST.(US 40) SLM 12.28± - 13.36± ZANESVILLE CORP.
END CURB

SEE SHT. 5
FOR PLANING
NOTE.



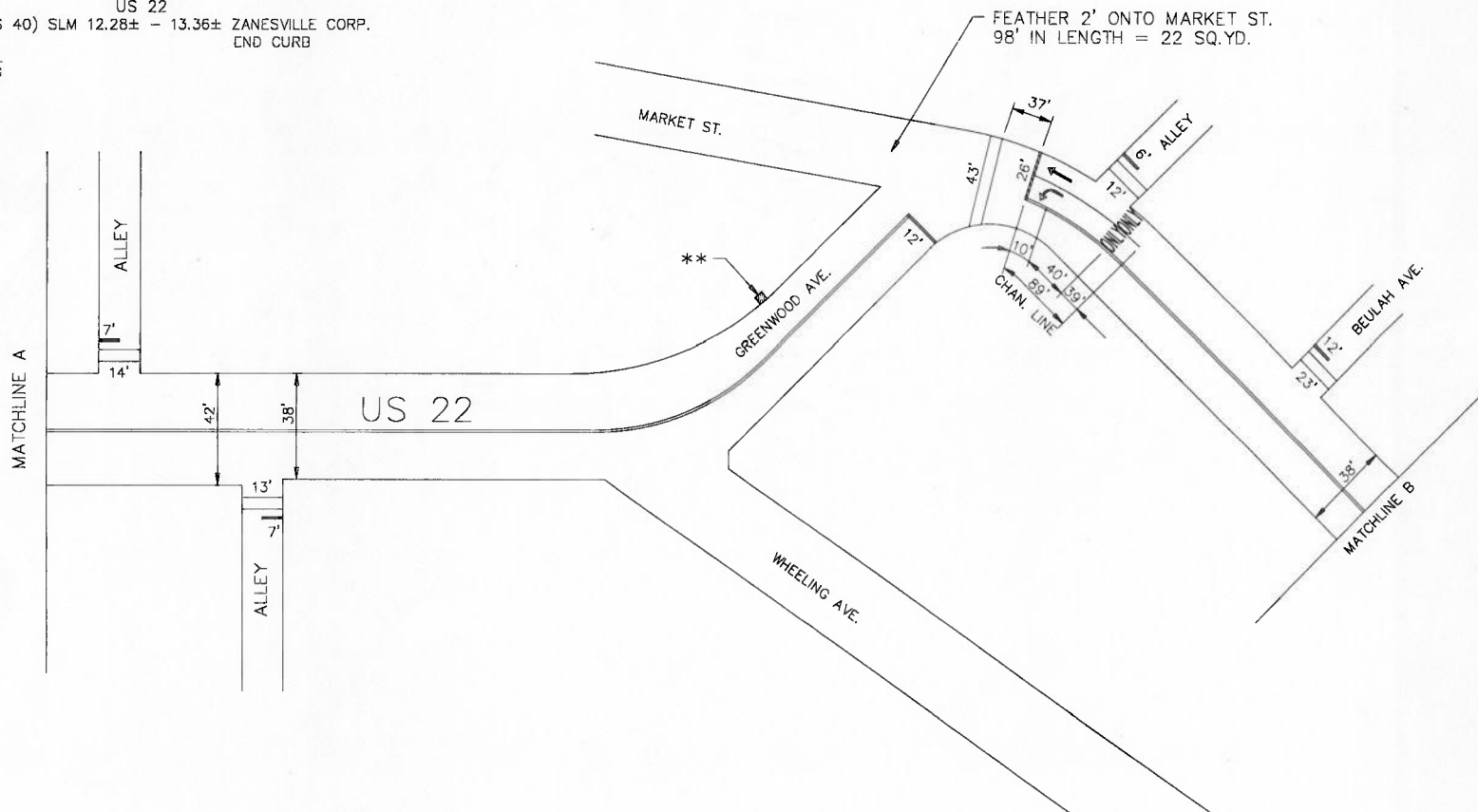
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MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHD. BY	
DATE	
PLAN NO.	

21
80

DRAWING NOT TO SCALE
PART 1



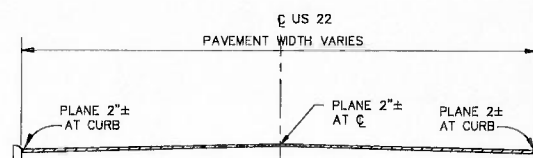
**RECONSTRUCTED INLET



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-148-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

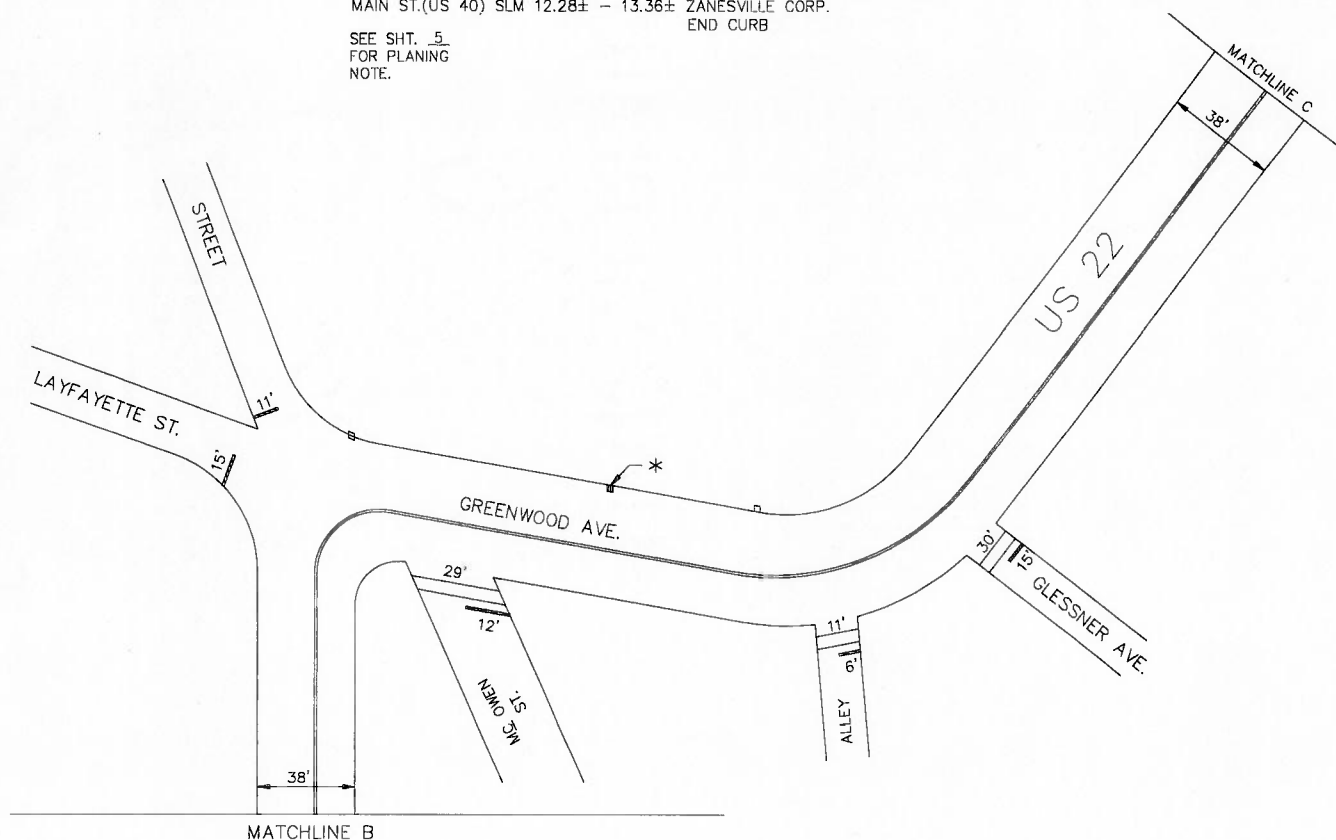


PLANING DETAIL
US 22

MAIN ST.(US 40) SLM 12.28± - 13.36± ZANESVILLE CORP.
END CURB

SEE SHT. 5
FOR PLANING
NOTE.

DRAWING NOT TO SCALE
PART 1



* RECONSTRUCTED CB



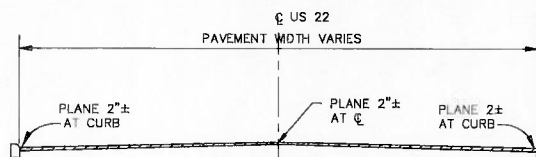
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MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHECK BY	
DATE	
PLAN NO.	

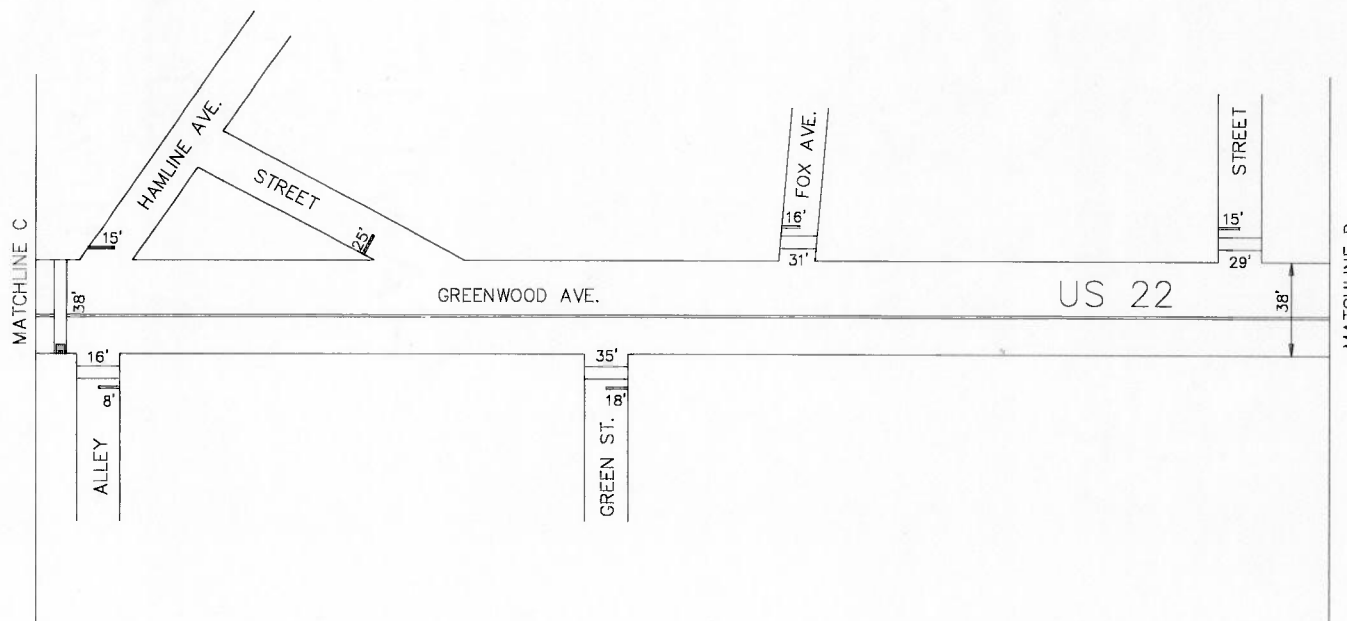
23
80

DRAWING NOT TO SCALE
PART 1



MAIN ST.(US 40) SLM 12.28± - 13.36± ZANESVILLE CORP.
END CURB

SEE SHT. 5
FOR PLANING
NOTE.





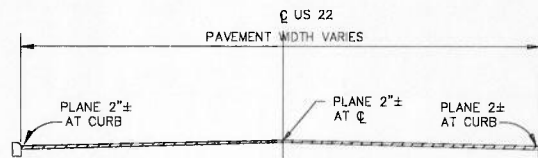
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MUS.CO.GARAGE
OAK PARK OUTPOST

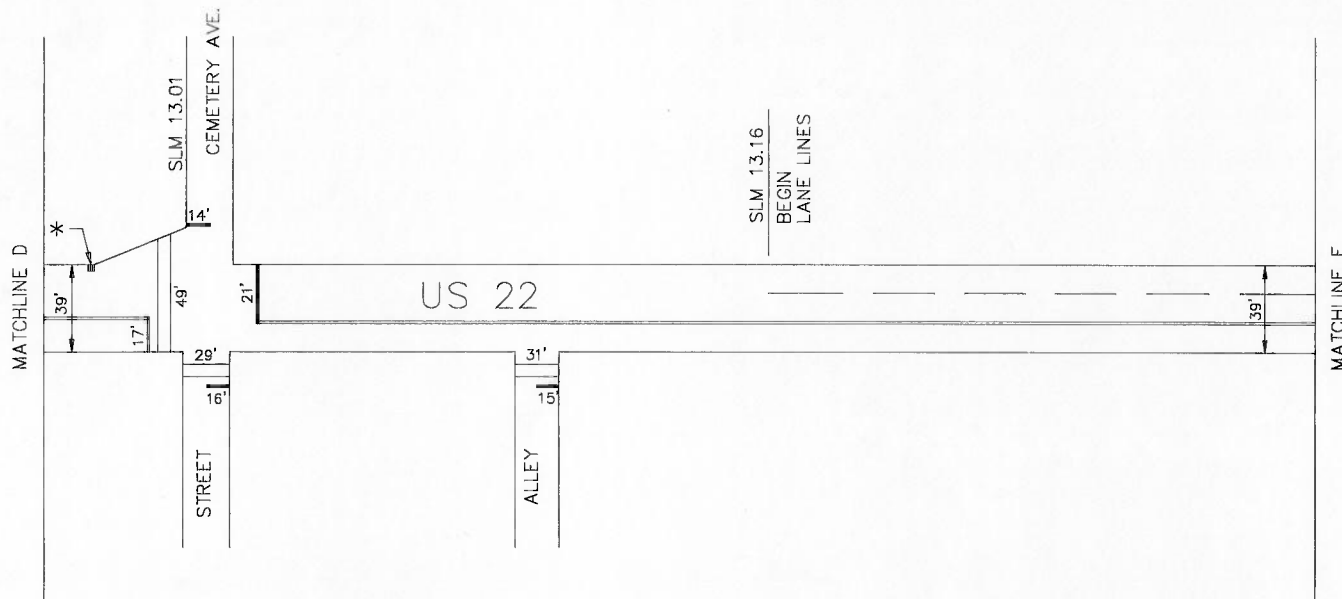
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DATE	
CHKD. BY	
DATE	
PLAN NO.	

24
80

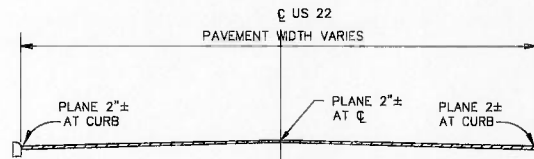
DRAWING NOT TO SCALE
PART 1



MAIN ST.(US 40) SLM 12.28+ - 13.36+ ZANESVILLE CORP.
END CURB
SEE SHT. 5
FOR PLANING
NOTE.



* RECONSTRUCTED CB



PLANING DETAIL
US 22
MAIN ST.(US 40) SLM 12.28± ~ 13.36± ZANESVILLE CORP.
END CURB
SEE SHT. 5.
FOR PLANING
NOTE.

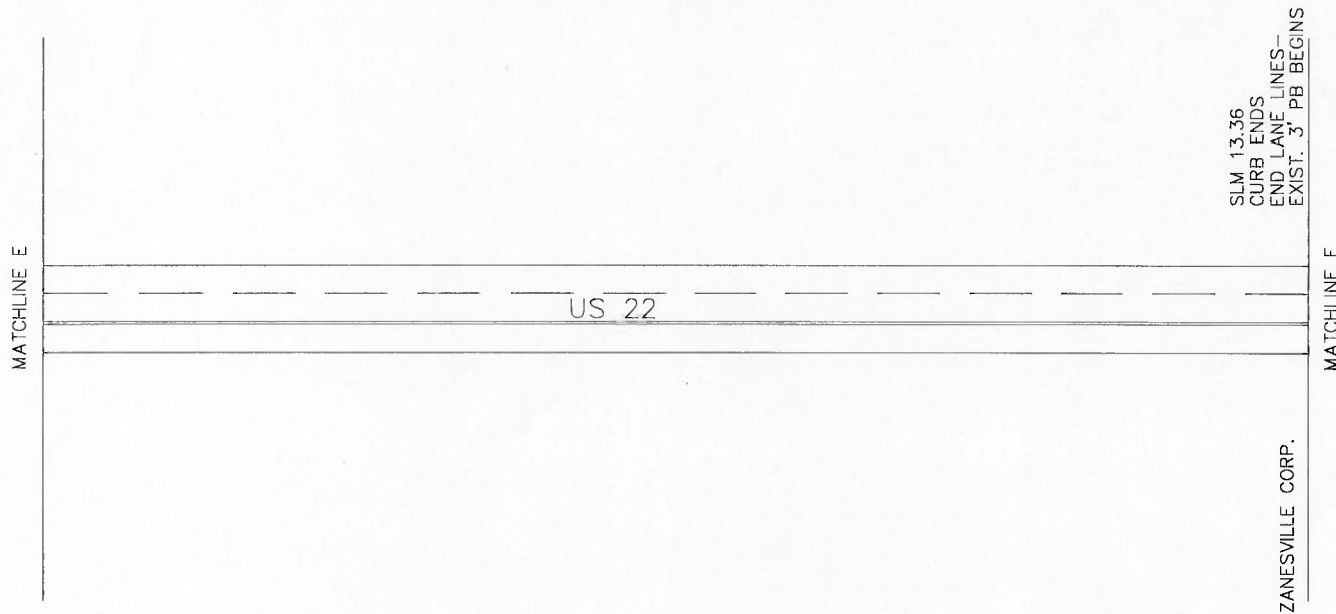
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MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHECKED BY	PLAN NO.
DATE	

25
80

DRAWING NOT TO SCALE
PART 1



PB= PAVED BERM



NORTH

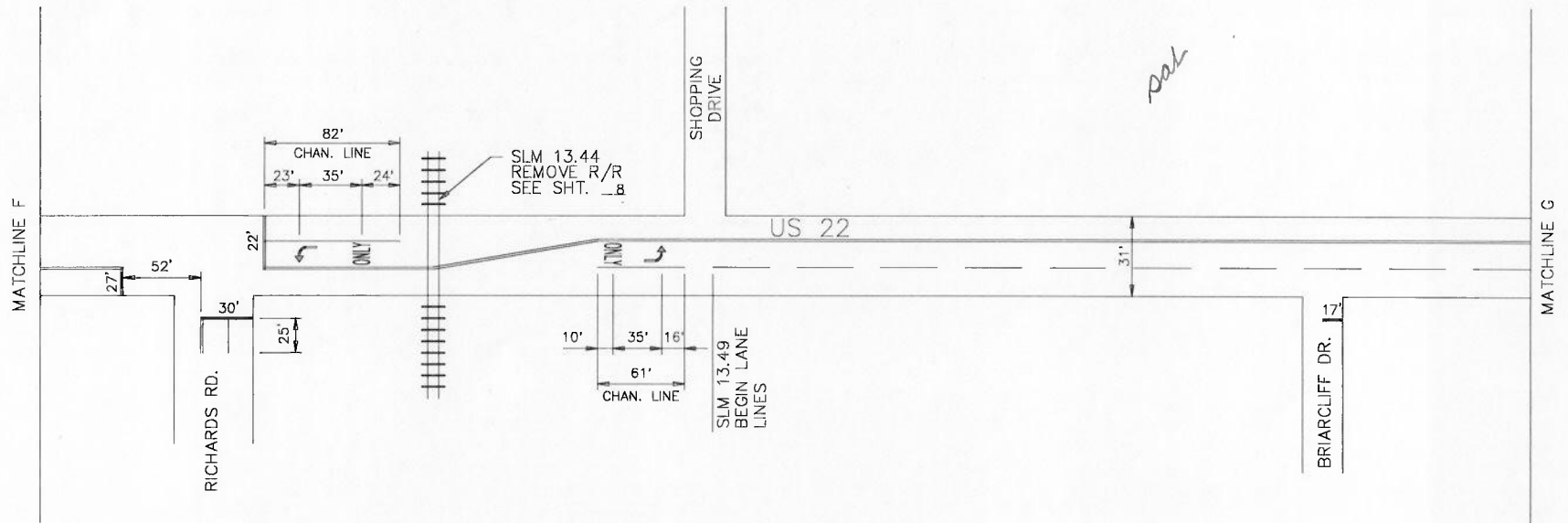
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

26
80

DRAWING NOT TO SCALE
PART 2





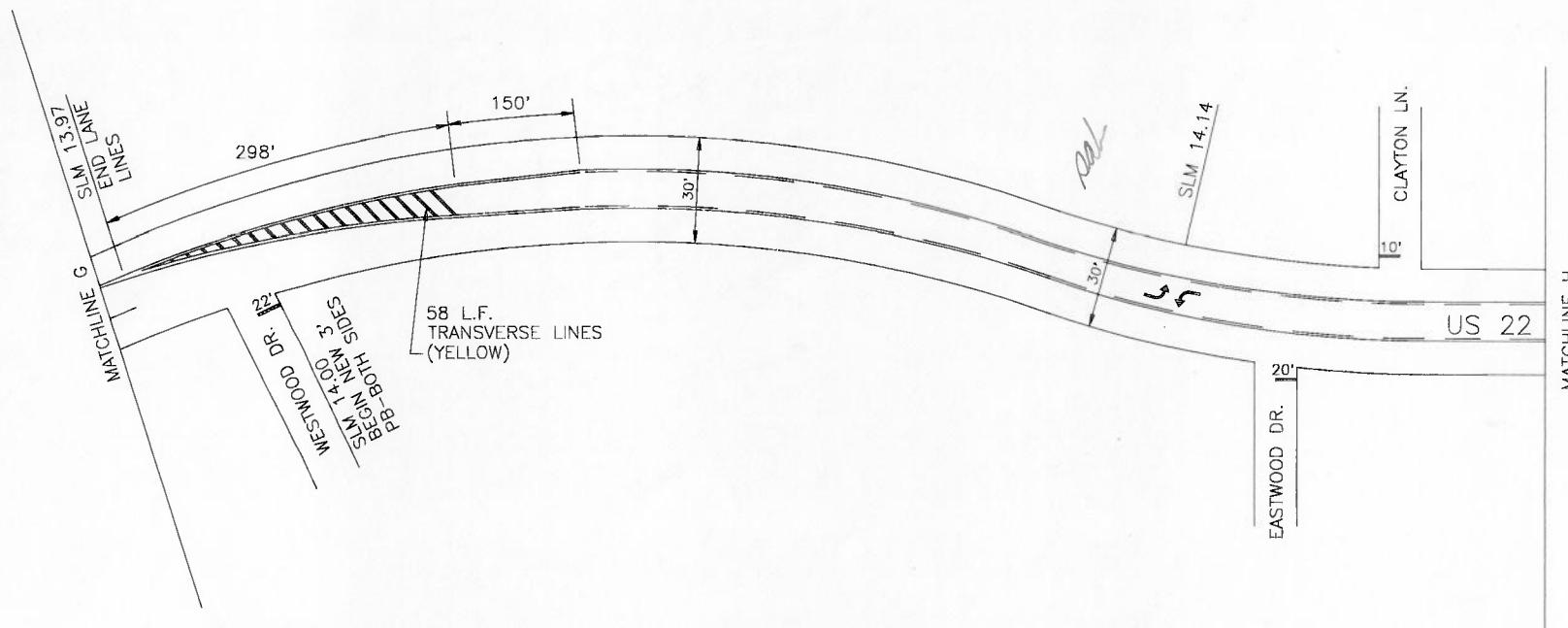
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

27
80

DRAWING NOT TO SCALE
PART 2



PB= PAVED BERM



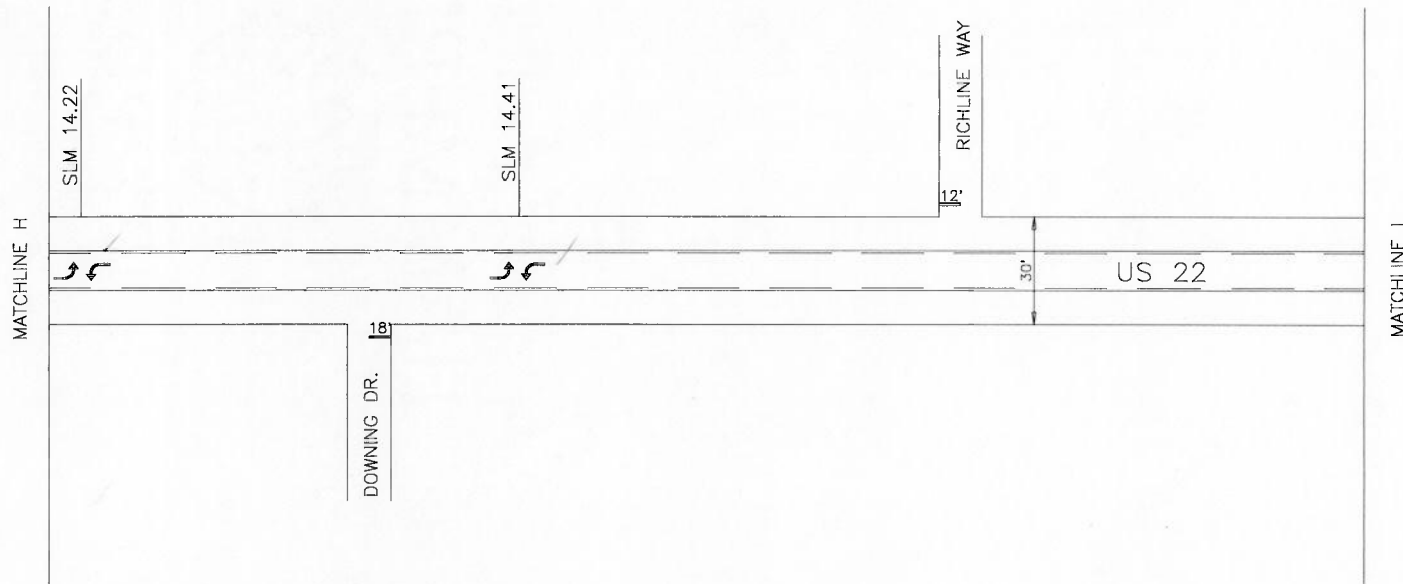
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MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHGD. BY _____	PLAN NO. _____
DATE _____	

28
80

DRAWING NOT TO SCALE
PART 2





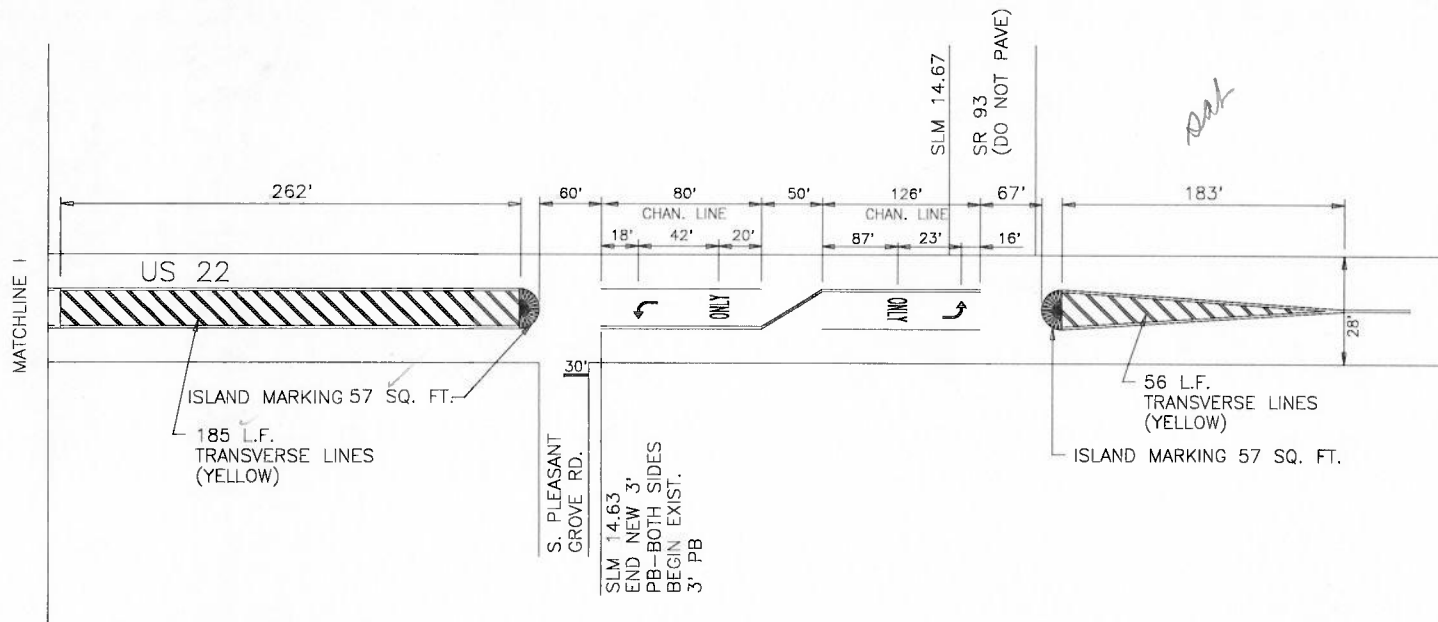
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MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	PLAN NO.
DATE	

29
80

DRAWING NOT TO SCALE
PART 2



PB=PAVED BERM



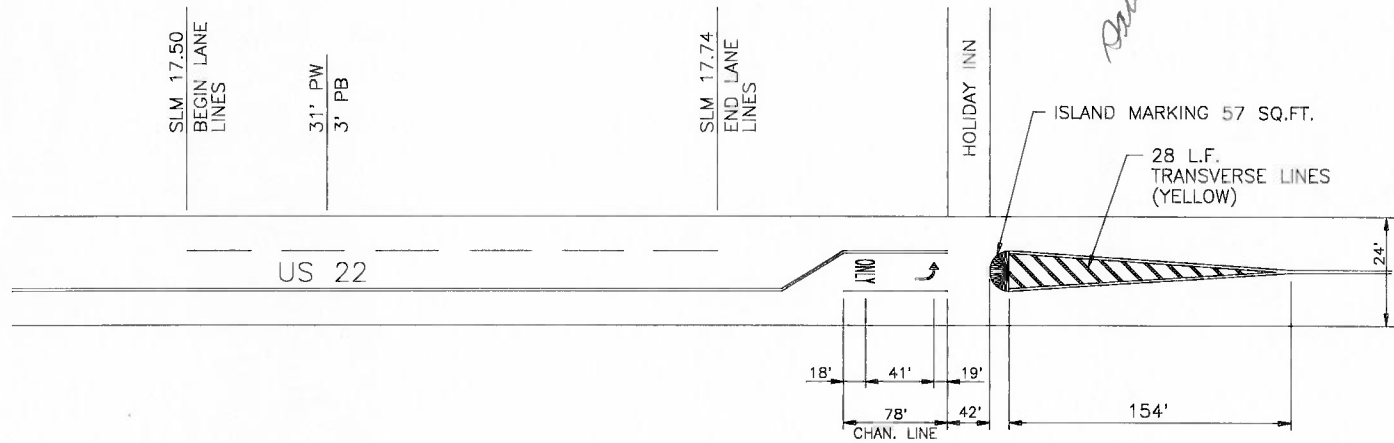
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OAK PARK OUTPOST

CALC. BY	
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CHKD. BY	PLAN NO.
DATE	

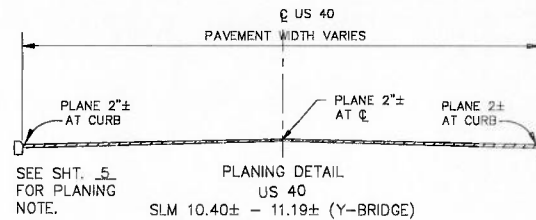
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DRAWING NOT TO SCALE
PART 2





NORTH



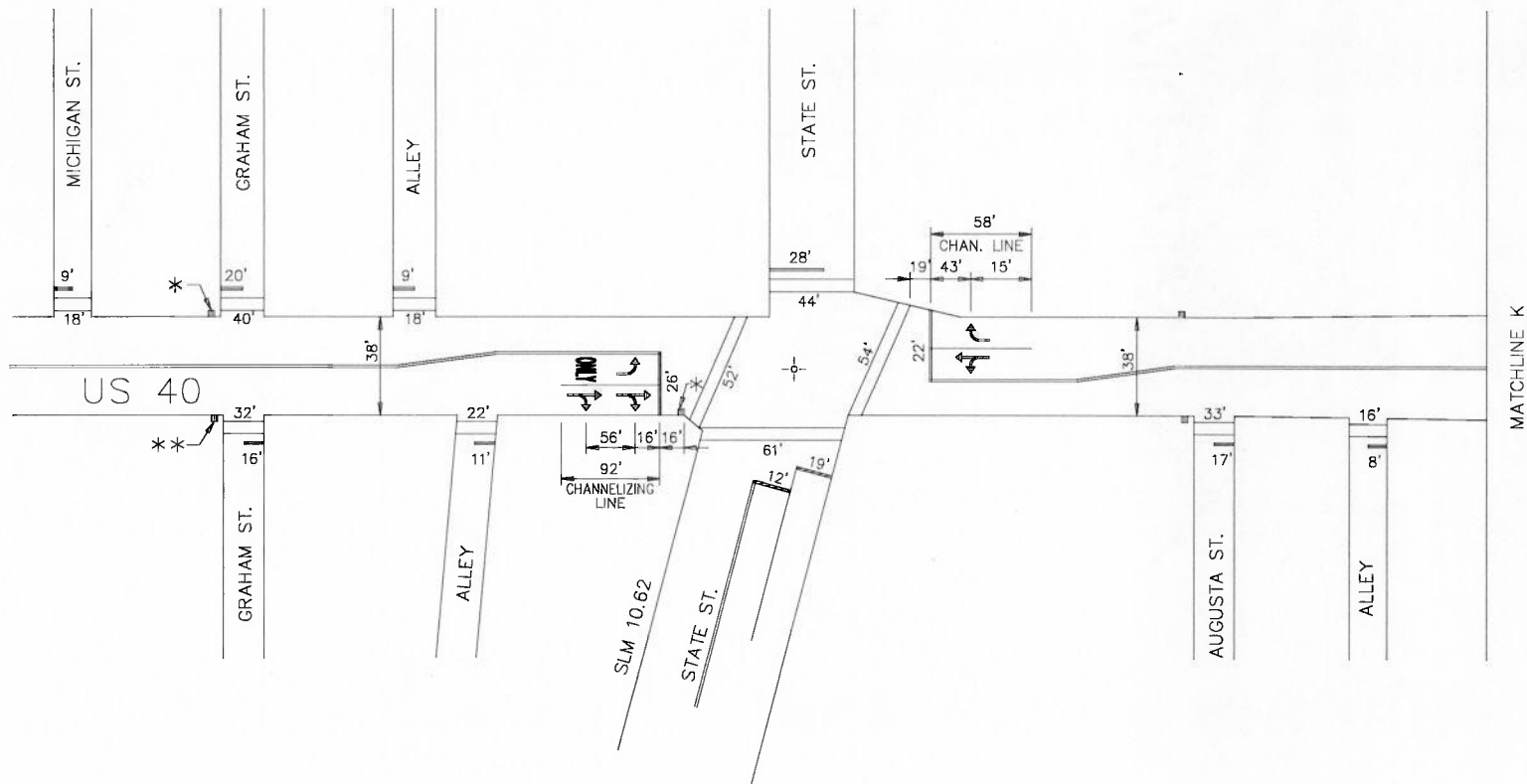
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MUS.CO.GARAGE
OAK PARK OUTPOST

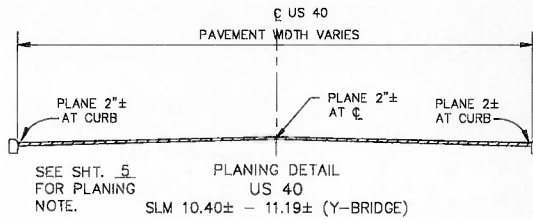
CALC. BY	
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CHKD. BY	
DATE	
PLAN NO.	

31
80

DRAWING NOT TO SCALE
PART 3



* RECONSTRUCTED CB
** RECONSTRUCTED INLET



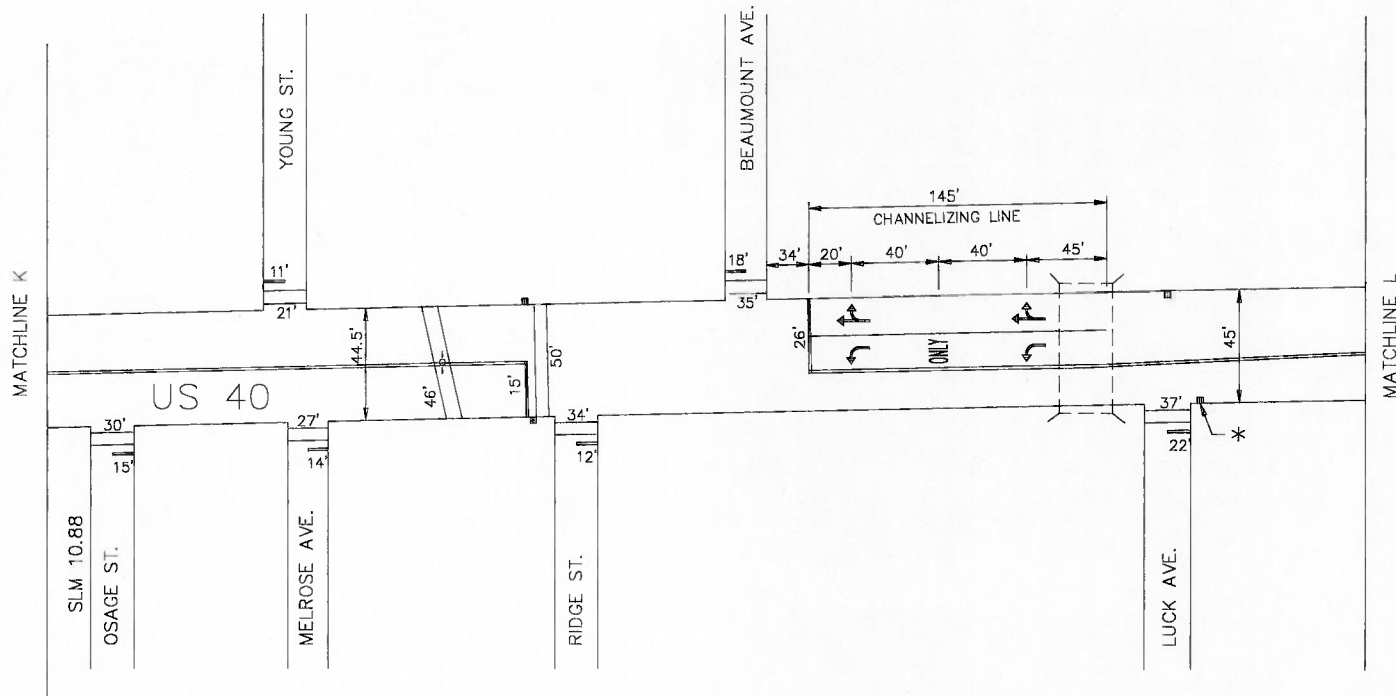
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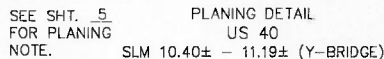
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MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

32
80

DRAWING NOT TO SCALE
PART 3





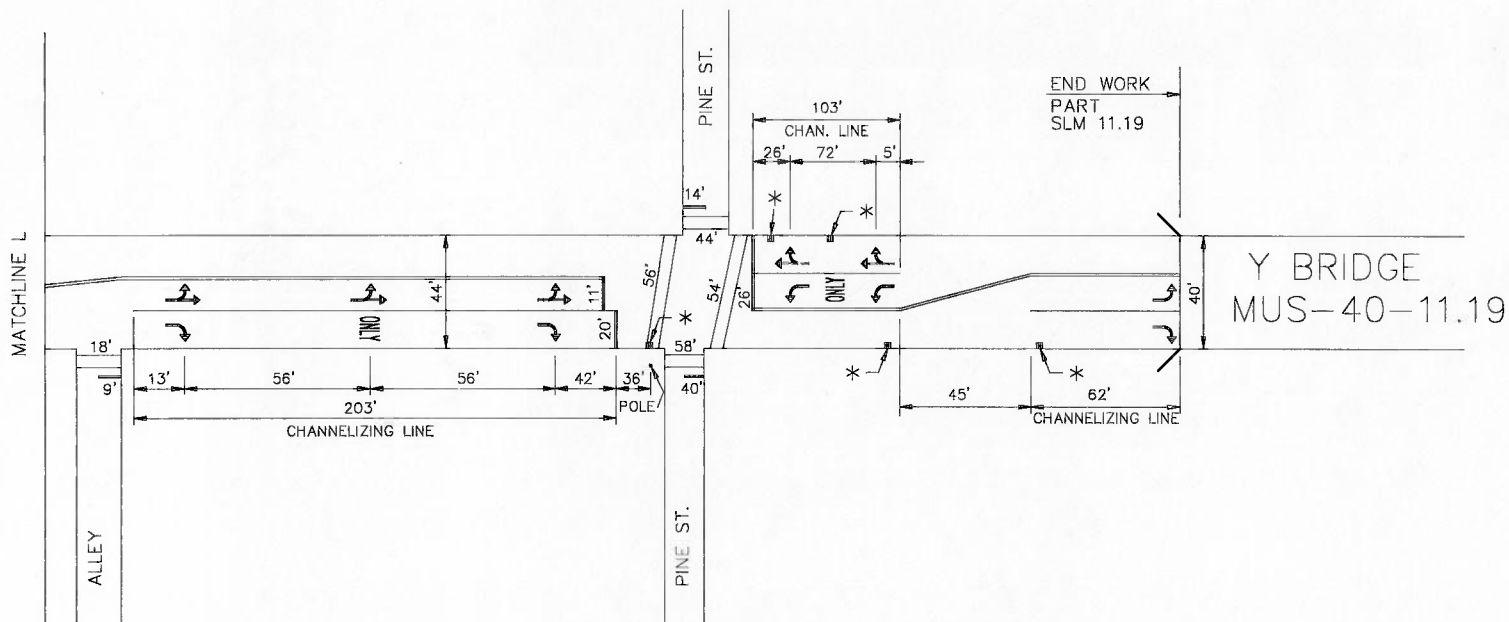
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALG. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

33
80

DRAWING NOT TO SCALE
PART 3



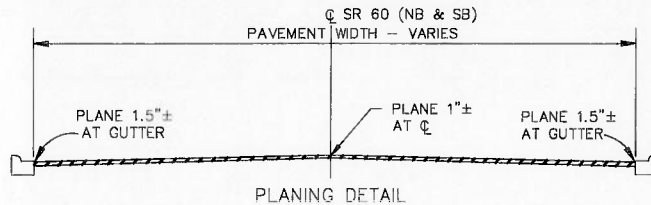
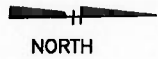
* RECONSTRUCTED CB
** RECONSTRUCTED INLET

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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

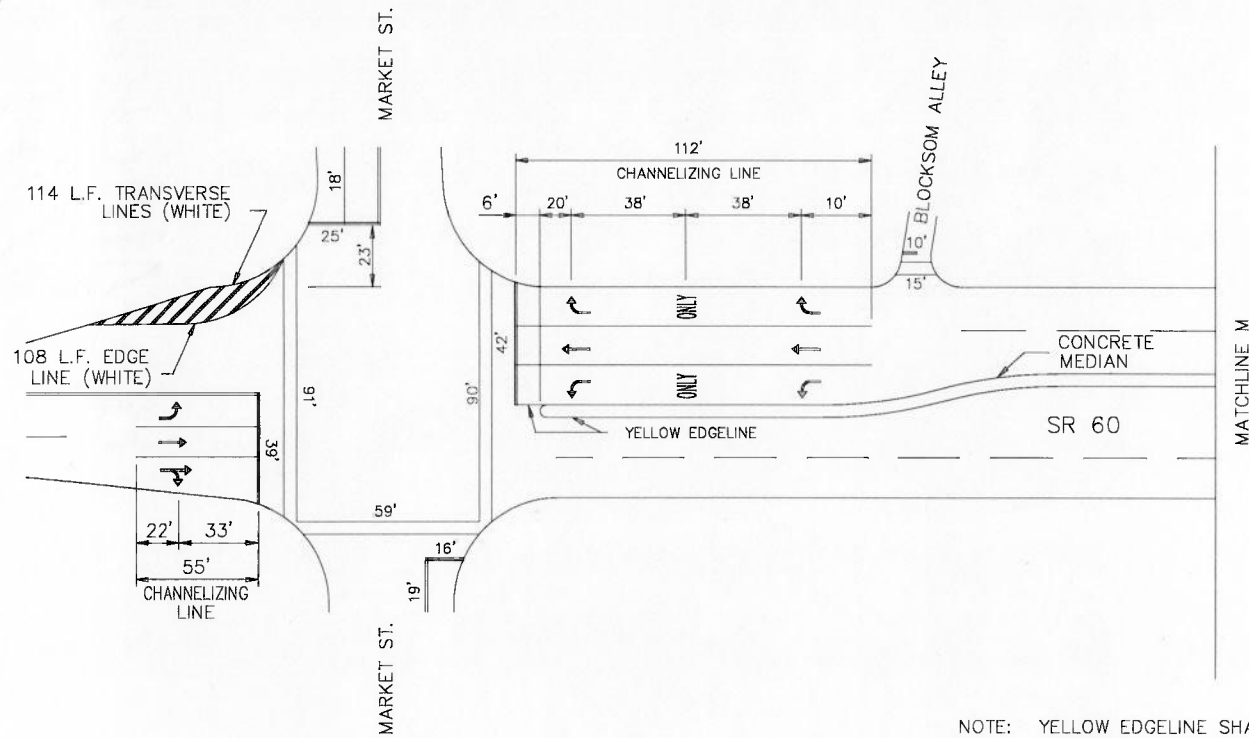
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34
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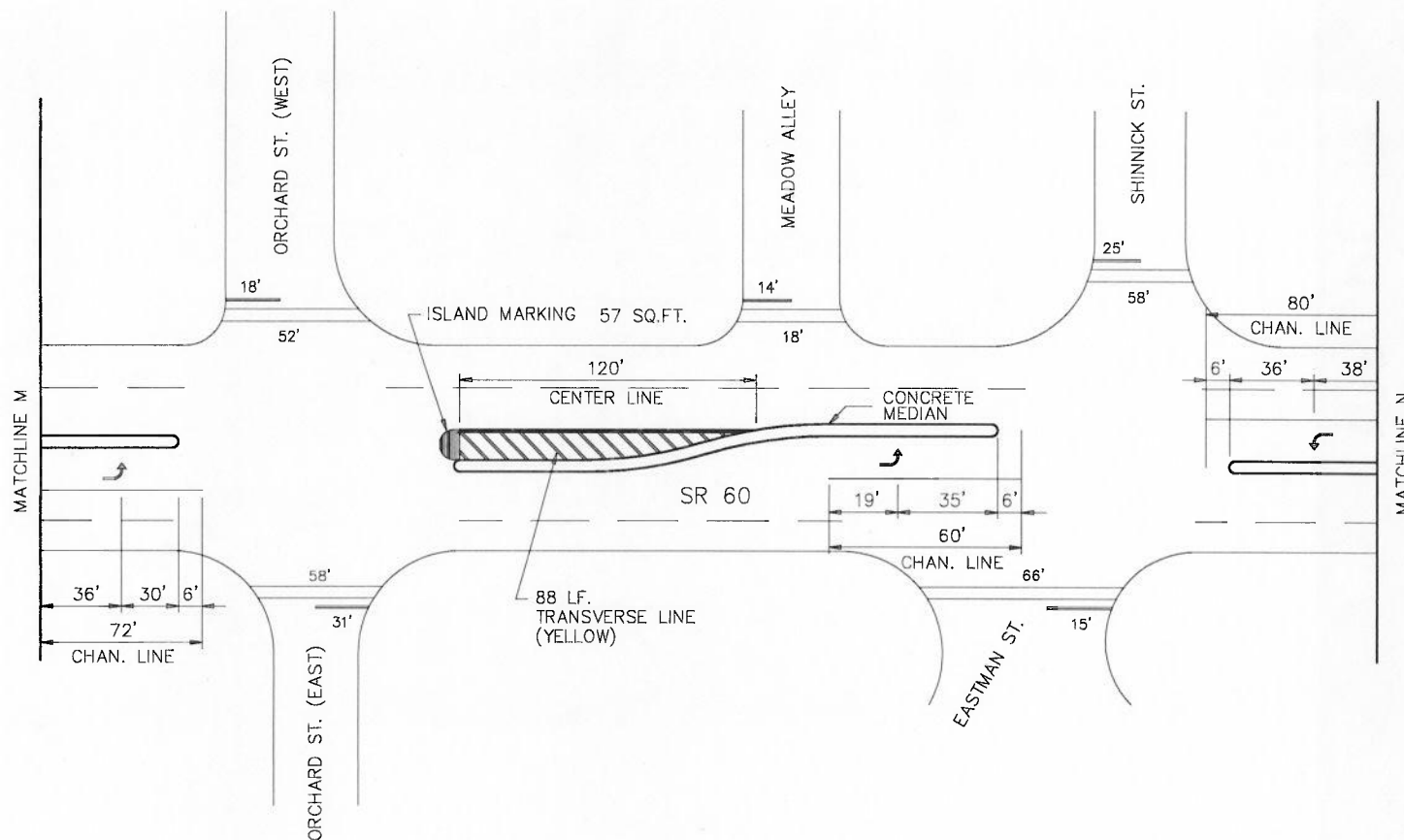


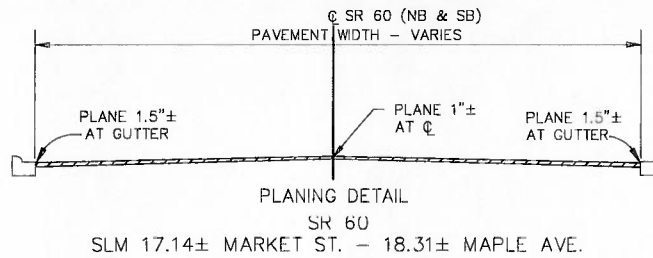
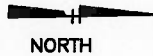
SR 60
SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.

DRAWING NOT TO SCALE
PART 4



NOTE: YELLOW EDGELINE SHALL BE PAINTED
AROUND ALL EXISTING CONCRETE
MEDIAN. AS SHOWN ON SHEET 11.





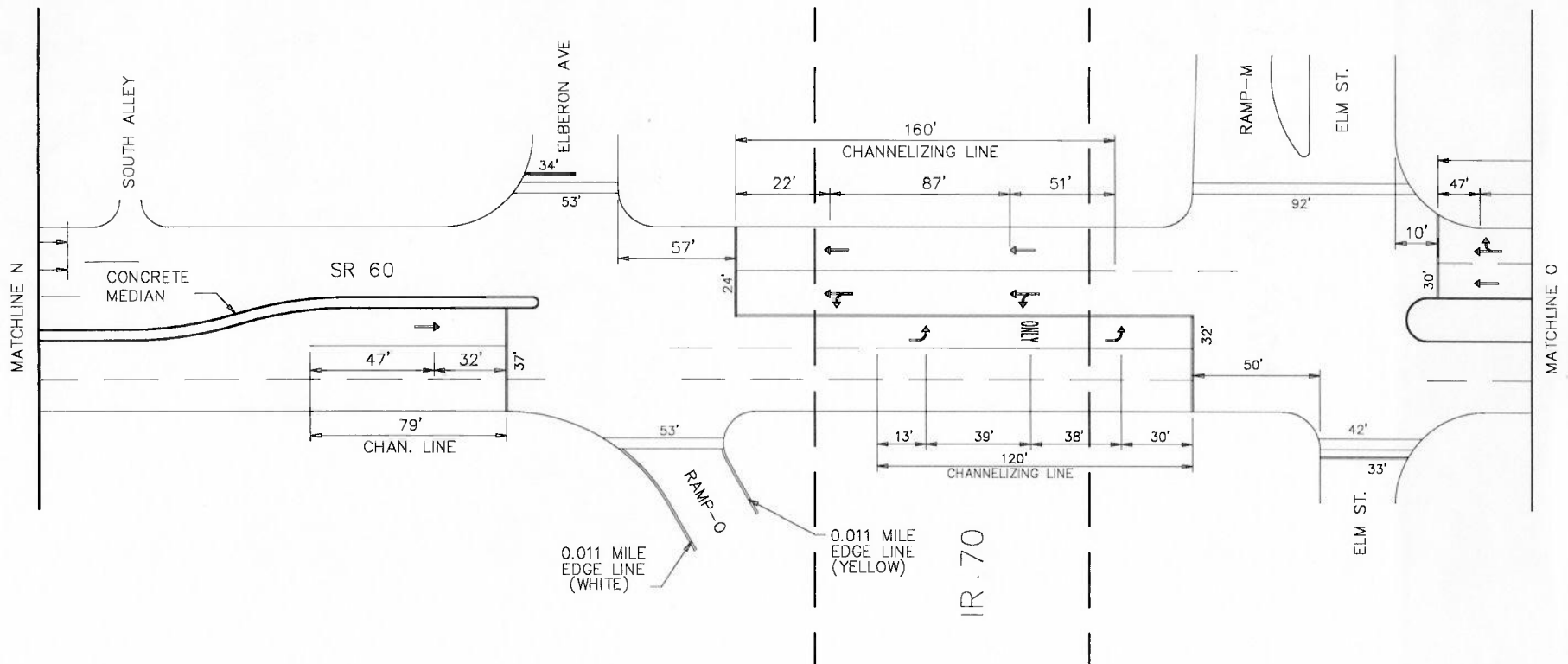
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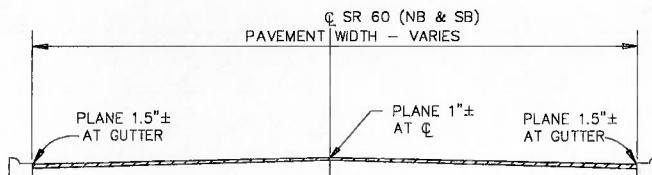
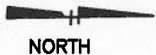
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MUS-866-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	PLAN NO.
DATE	

36
80

DRAWING NOT TO SCALE
PART 4





PLANING DETAIL

SR 60

SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.

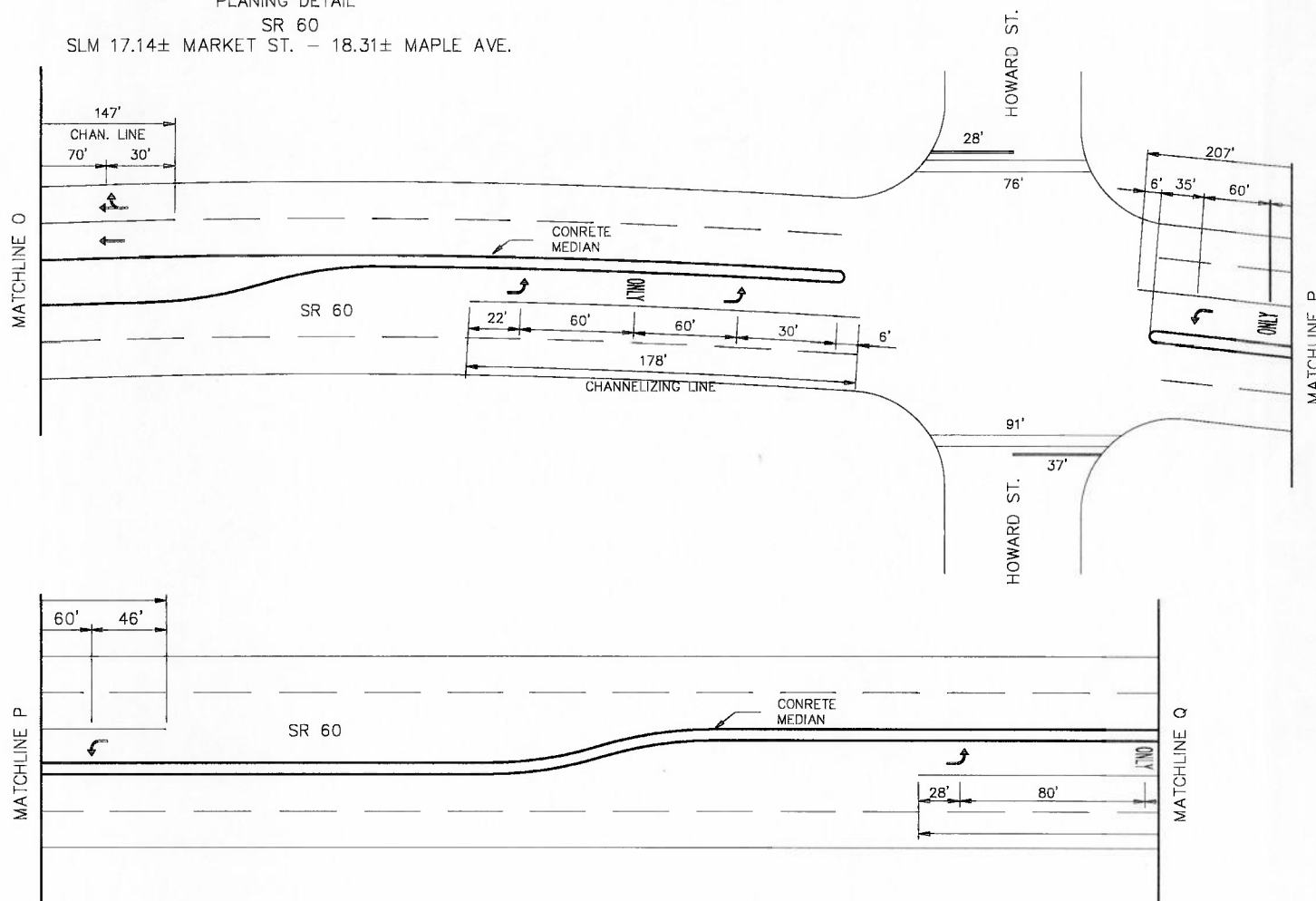
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

37
80

DRAWING NOT TO SCALE
PART 4



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

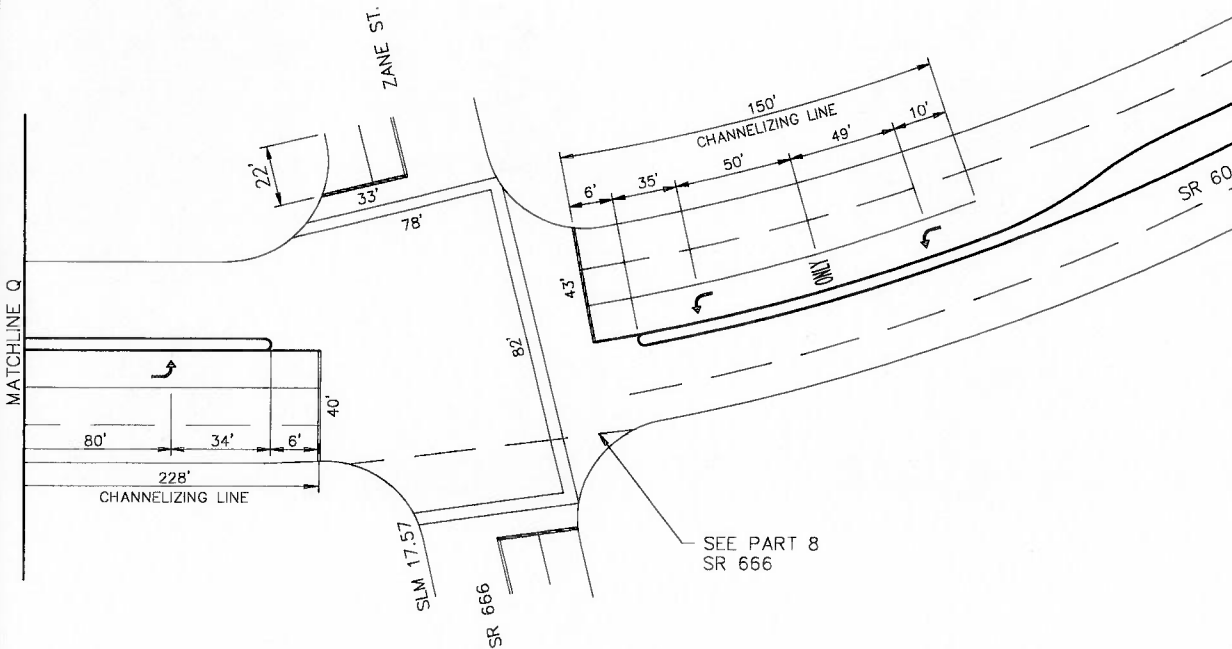
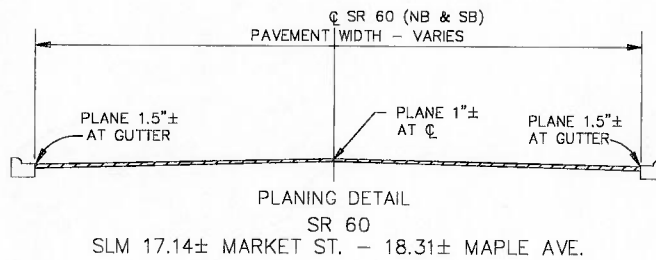
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

38
80



DRAWING NOT TO SCALE
PART 4





NORTH

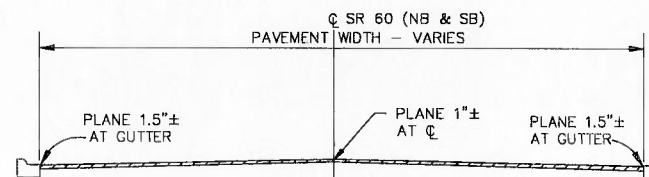
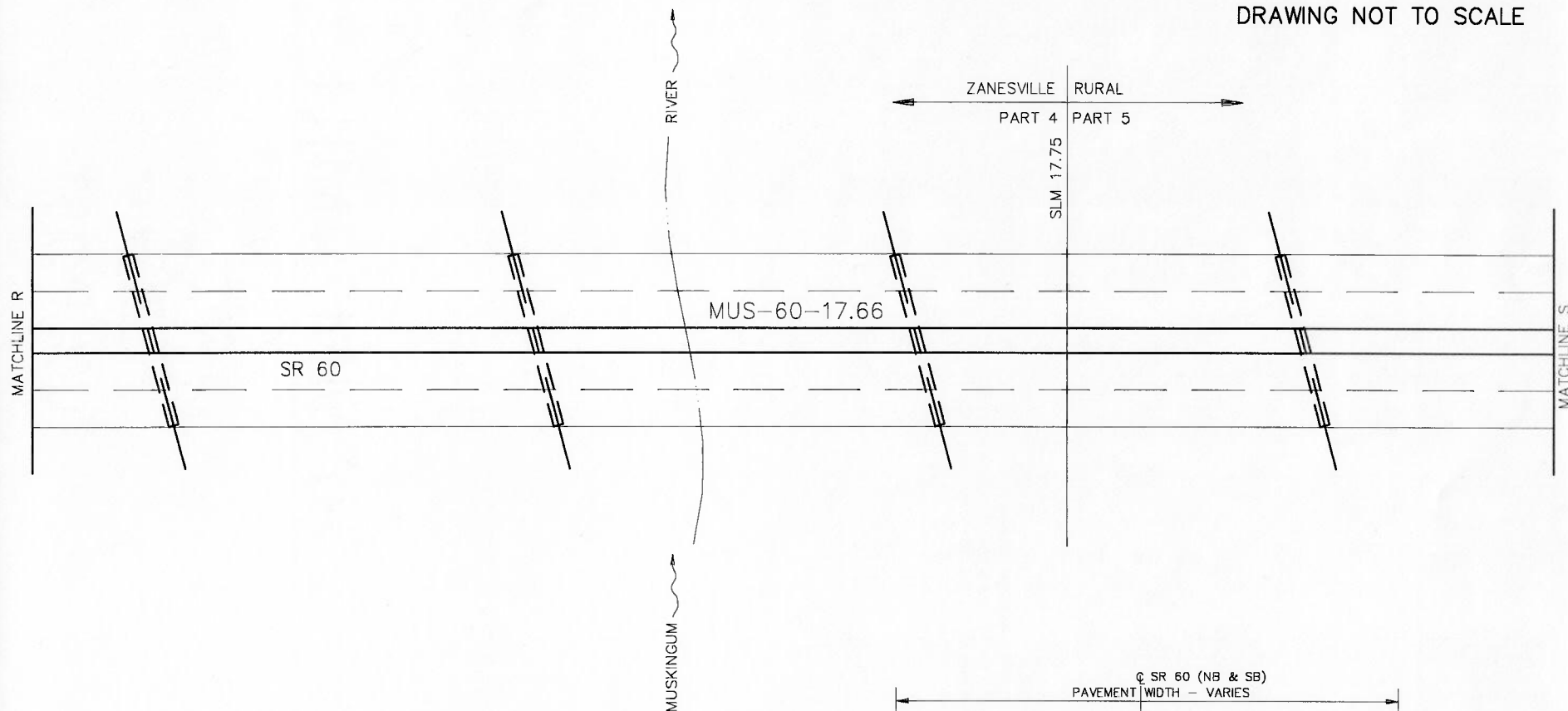
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MUS-148-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHD. BY	
DATE	
PLAN NO.	

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80

DRAWING NOT TO SCALE



SR 60
SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.



NORTH

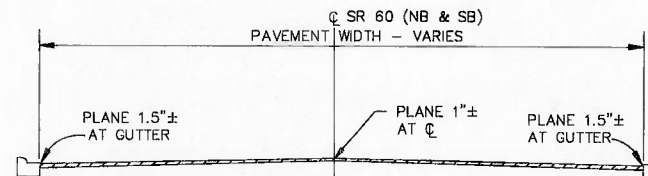
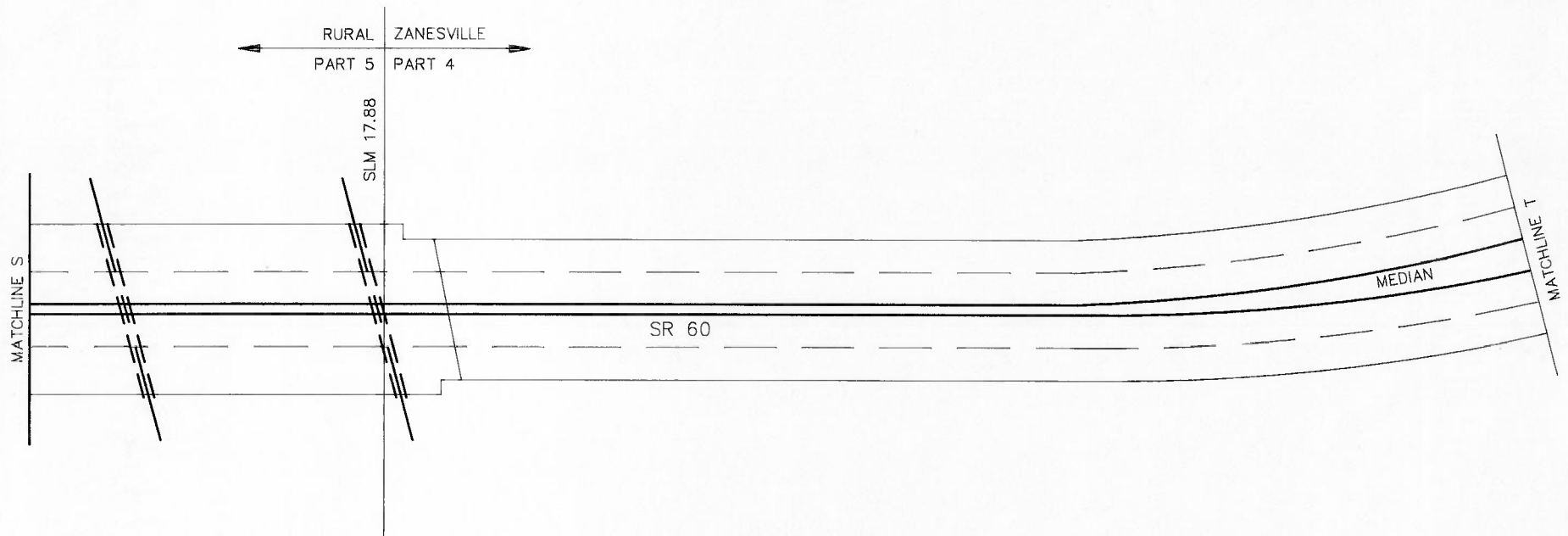
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MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

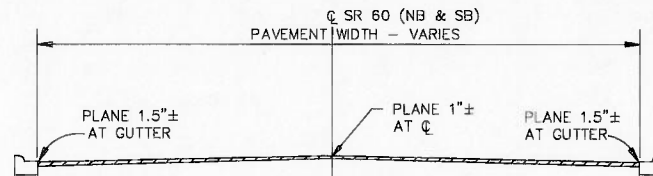
CALC. BY _____	
DATE _____	
CHKD. BY _____	PLAN NO. _____
DATE _____	

40
80

DRAWING NOT TO SCALE



PLANING DETAIL
SR 60
SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.



PLANING DETAIL
SR 60
SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

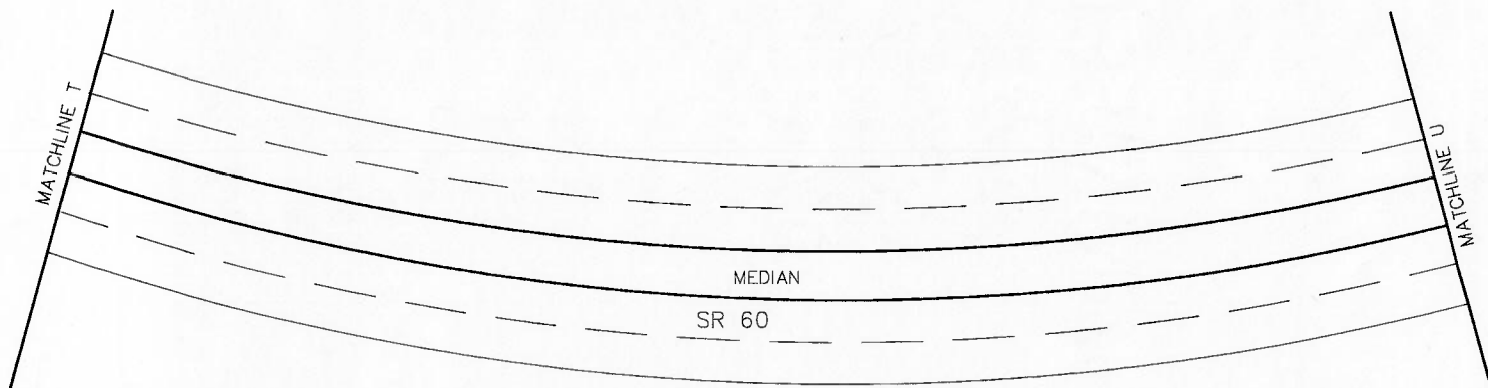
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
ORD. BY	PLAN NO.
DATE	

41
80

DRAWING NOT TO SCALE
PART 4

NOTE:
SEE SHT. 5
FOR PLANING NOTE

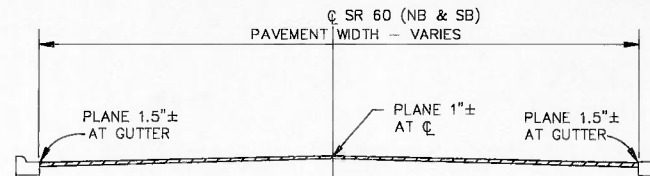


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MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

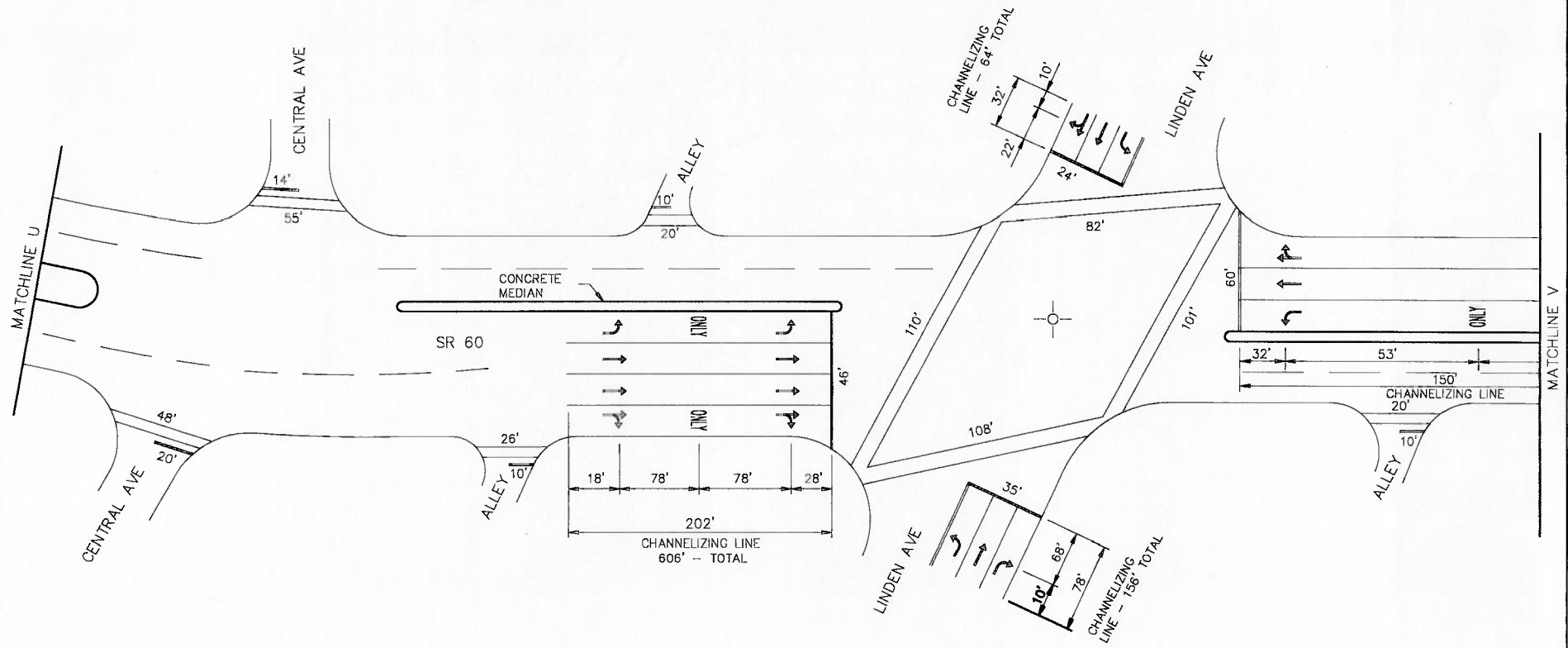
CALC. BY	
DATE	
CHD. BY	
DATE	
PLAN NO.	

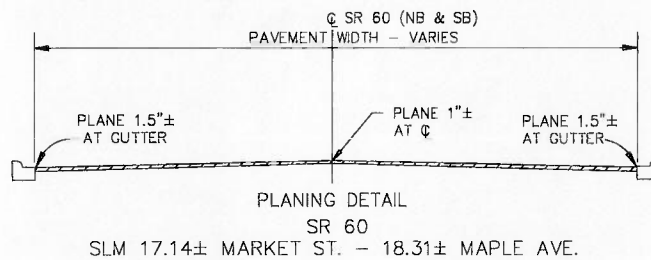
42
80



PLANING DETAIL
SR 60
SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.

DRAWING NOT TO SCALE
PART 4





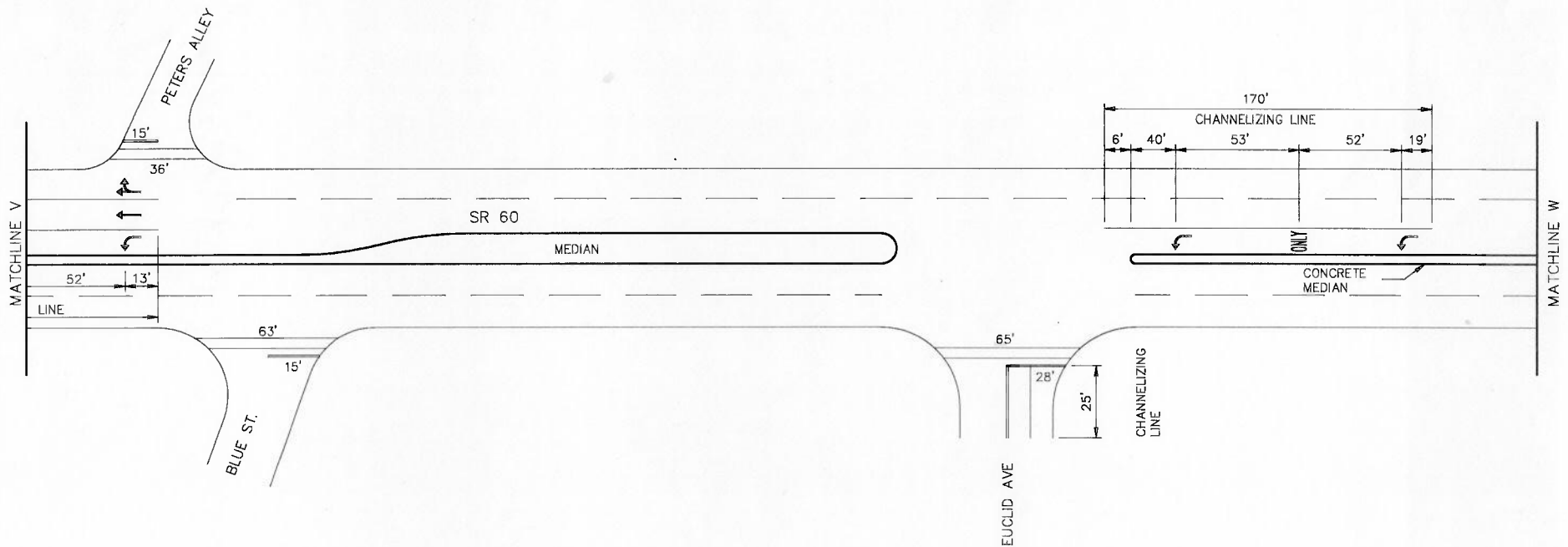
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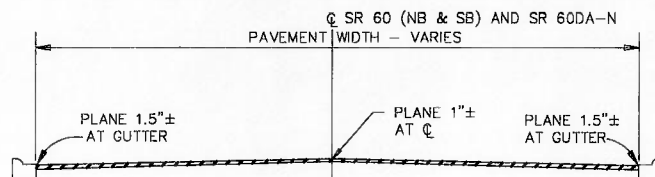
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	PLAN NO.
DATE	

43
80

DRAWING NOT TO SCALE
PART 4





PLANING DETAIL

SR 60

SLM 17.14± MARKET ST. - 18.31± MAPLE AVE.

SR 60DA-N

SLM 1.01 MAPLE AVE. - 0.88± CULBERTSON AVE.

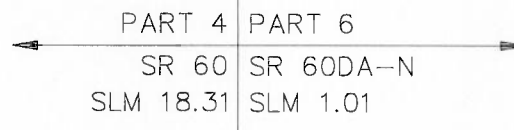
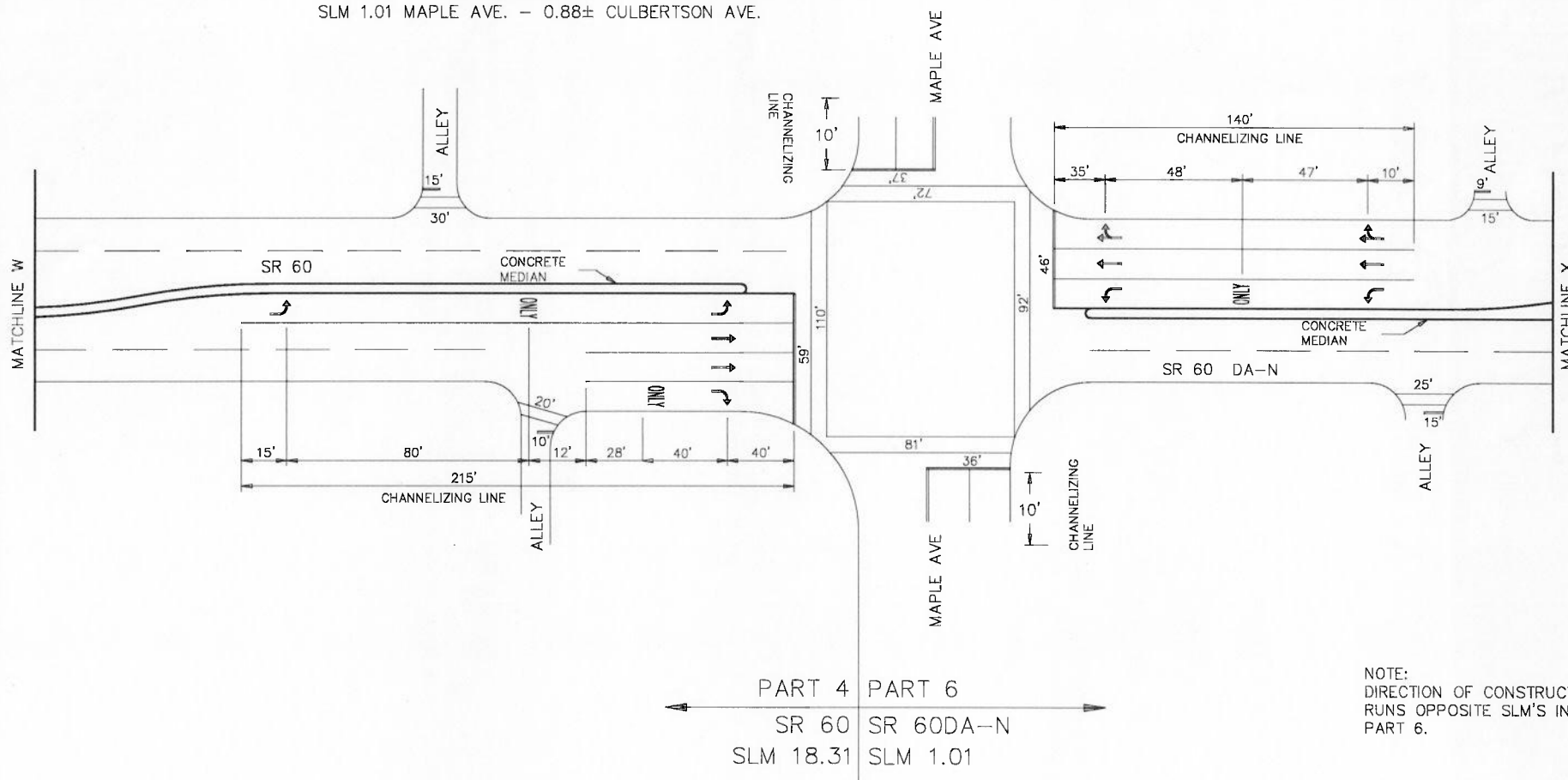
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MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

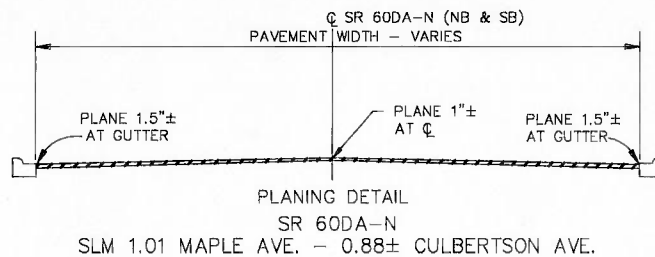
CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

44
80

DRAWING NOT TO SCALE
PART 4



NOTE:
DIRECTION OF CONSTRUCTION
RUNS OPPOSITE SLM'S IN
PART 6.



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

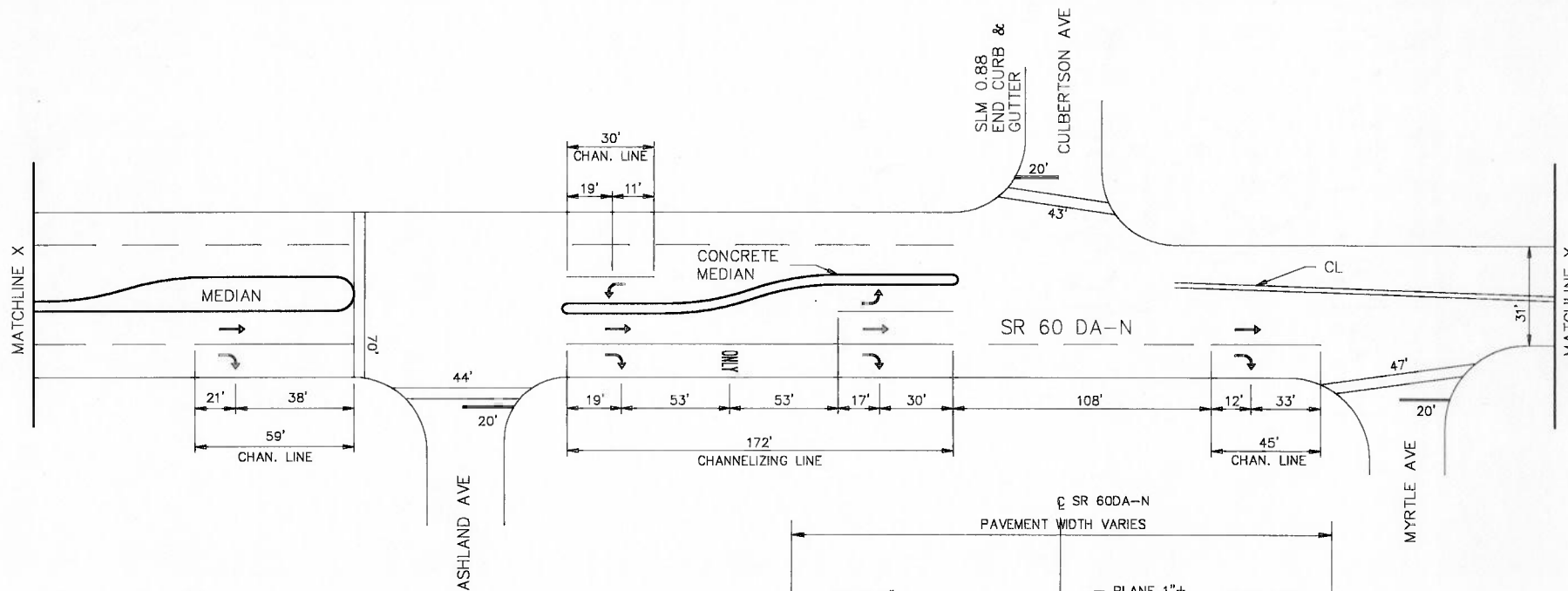
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

DATE	BY
DATE	BY
DATE	BY
DATE	BY

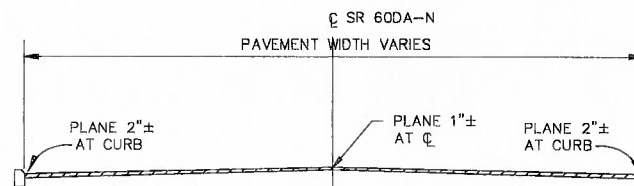
PLAN NO.

45
80

DRAWING NOT TO SCALE
PART 6



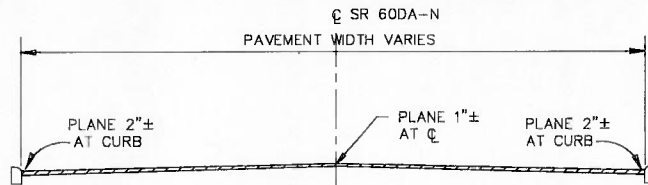
NOTE:
DIRECTION OF CONSTRUCTION
RUNS OPPOSITE SLM'S.



SEE SHT. 5
FOR PLANING
NOTE.

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____
CHKD. BY _____ DATE _____

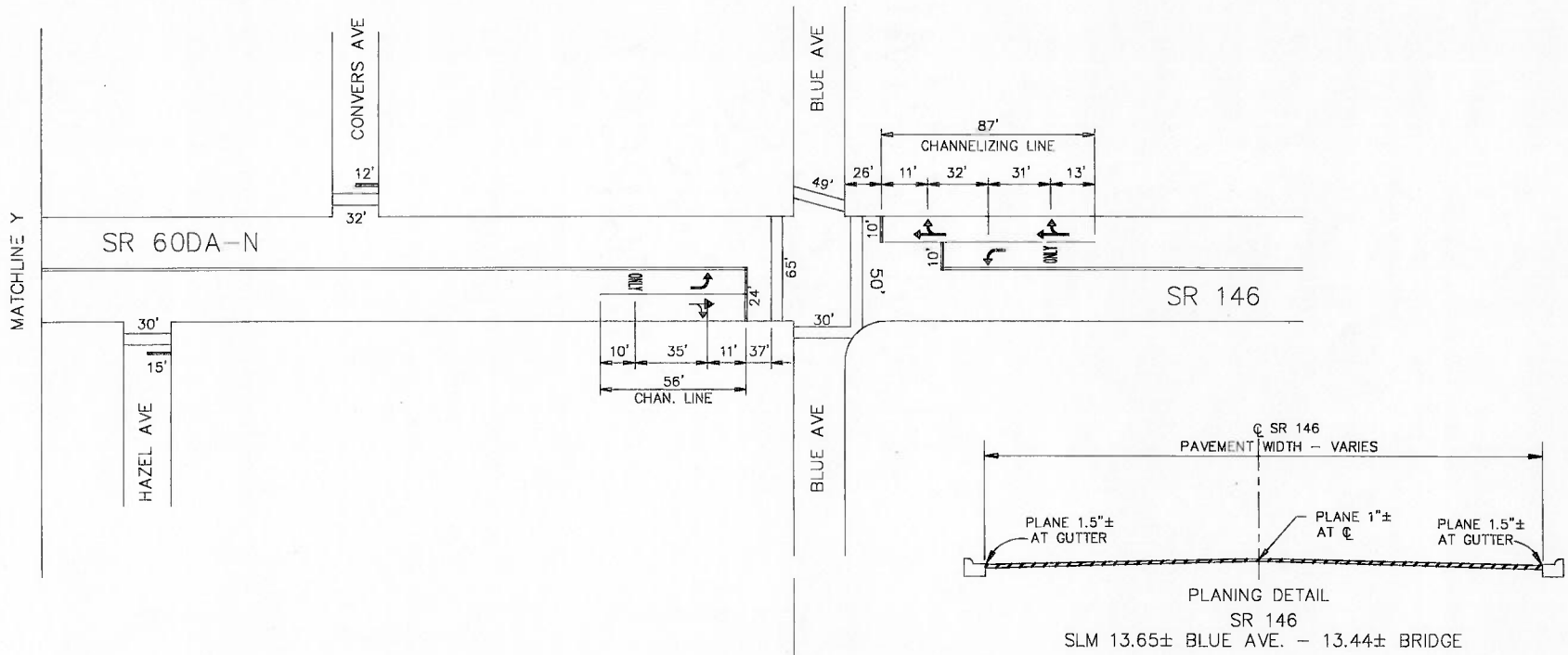


PLANING DETAIL

SR 60DA-N

SEE SHT. 5
FOR PLANING
NOTE.

0.88± CULBERTSON AVE. — 0.66± BLUE AVE.



NOTE:
DIRECTION OF CONSTRUCTION
RUNS OPPOSITE SLM'S.

PART 6	PART 7
SR-60DA-N	SR 146
SLM 0.66	SLM 13.65



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

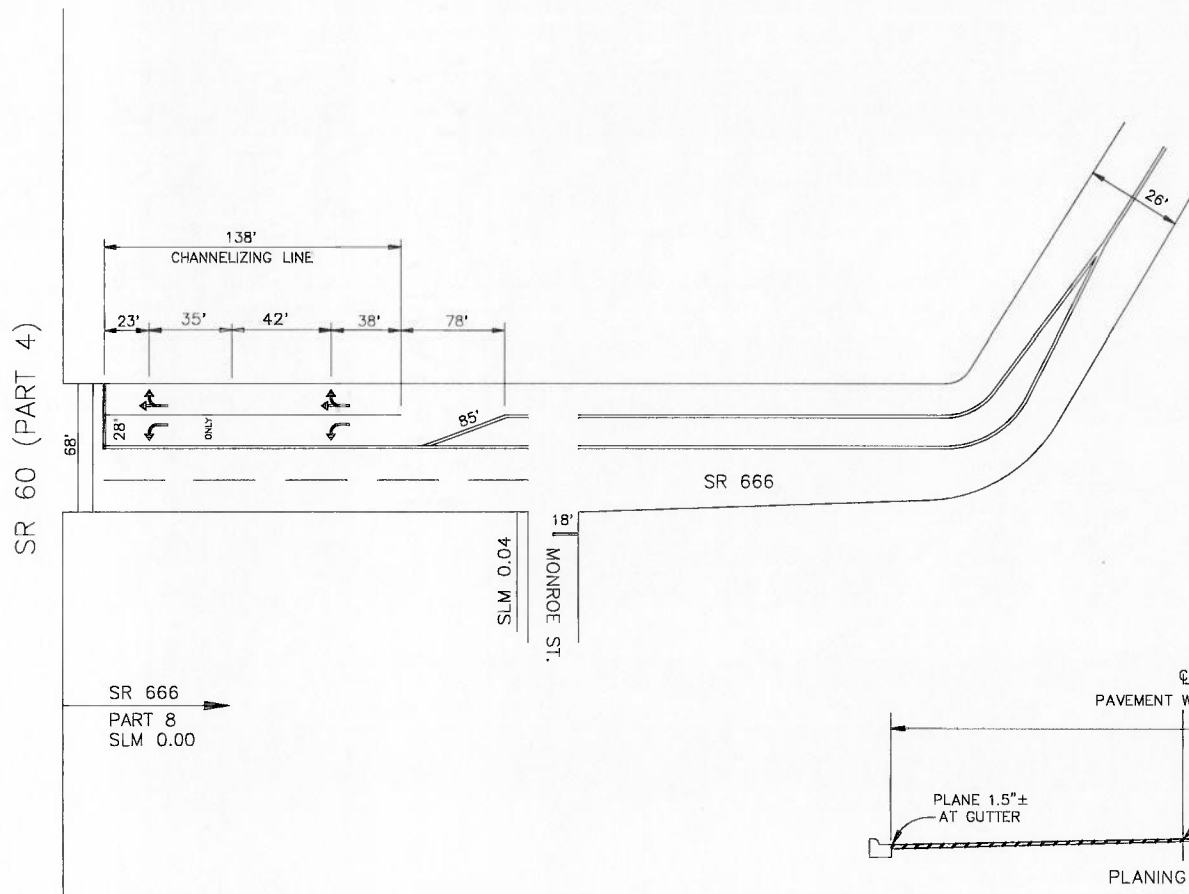
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MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	

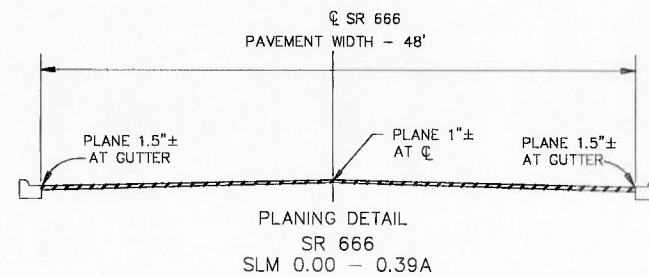
PLAN NO.

47
80

DRAWING NOT TO SCALE
PART 8



SR 666
PART 8
SLM 0.00



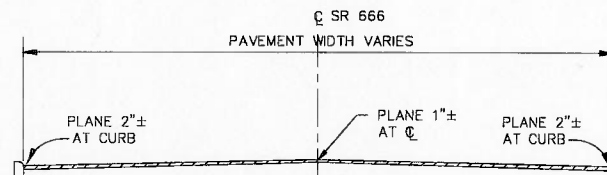
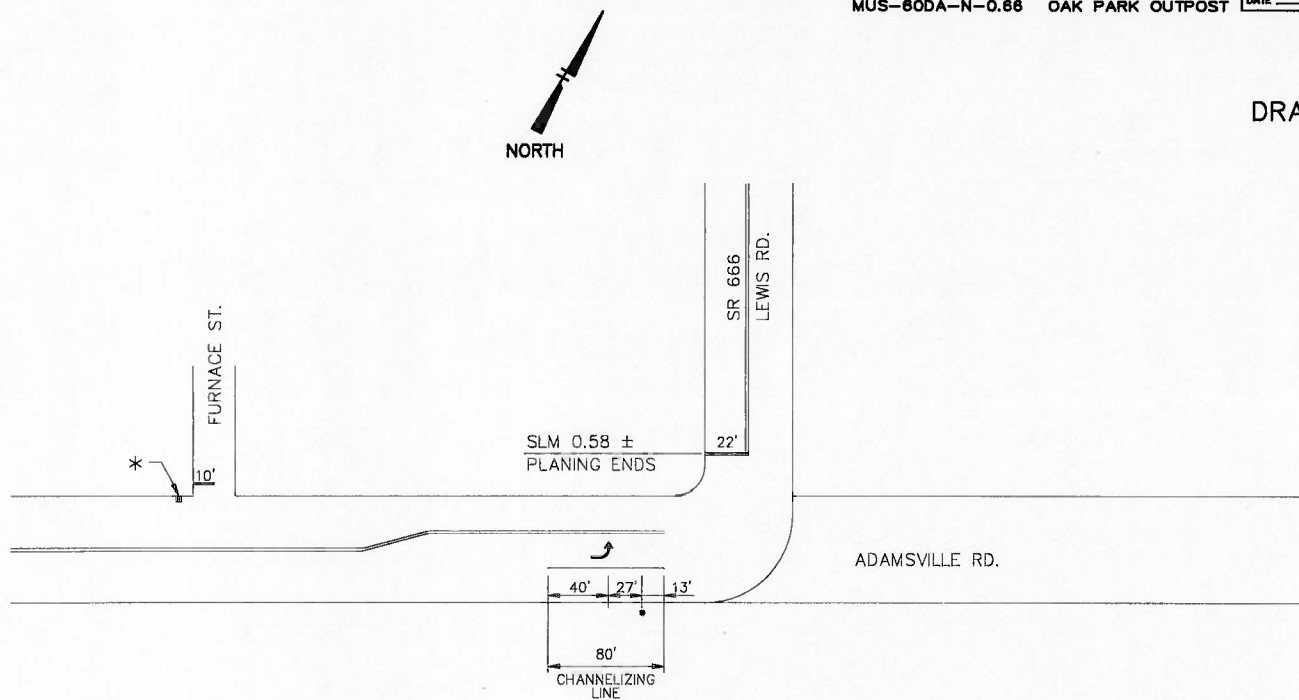
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MUS-40-10.35
MUS-80-17.14
MUS-80DA-N-0.88

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHD. BY	
DATE	
PLAN NO.	

48
80

DRAWING NOT TO SCALE
PART 8



PLANING DETAIL
SR 666
SLM 0.39A ± - SLM 0.58 ±

SEE SHT. 5
FOR PLANING
NOTE.

* RECONSTRUCTED CB

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-148-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.



NORTH

RIVERSIDE DR.

22

SR 666

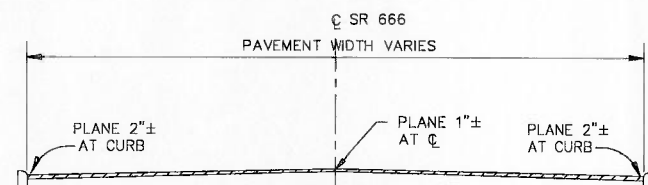
ALLEY

18'

*

* RECONSTRUCTED CB

DRAWING NOT TO SCALE
PART 8

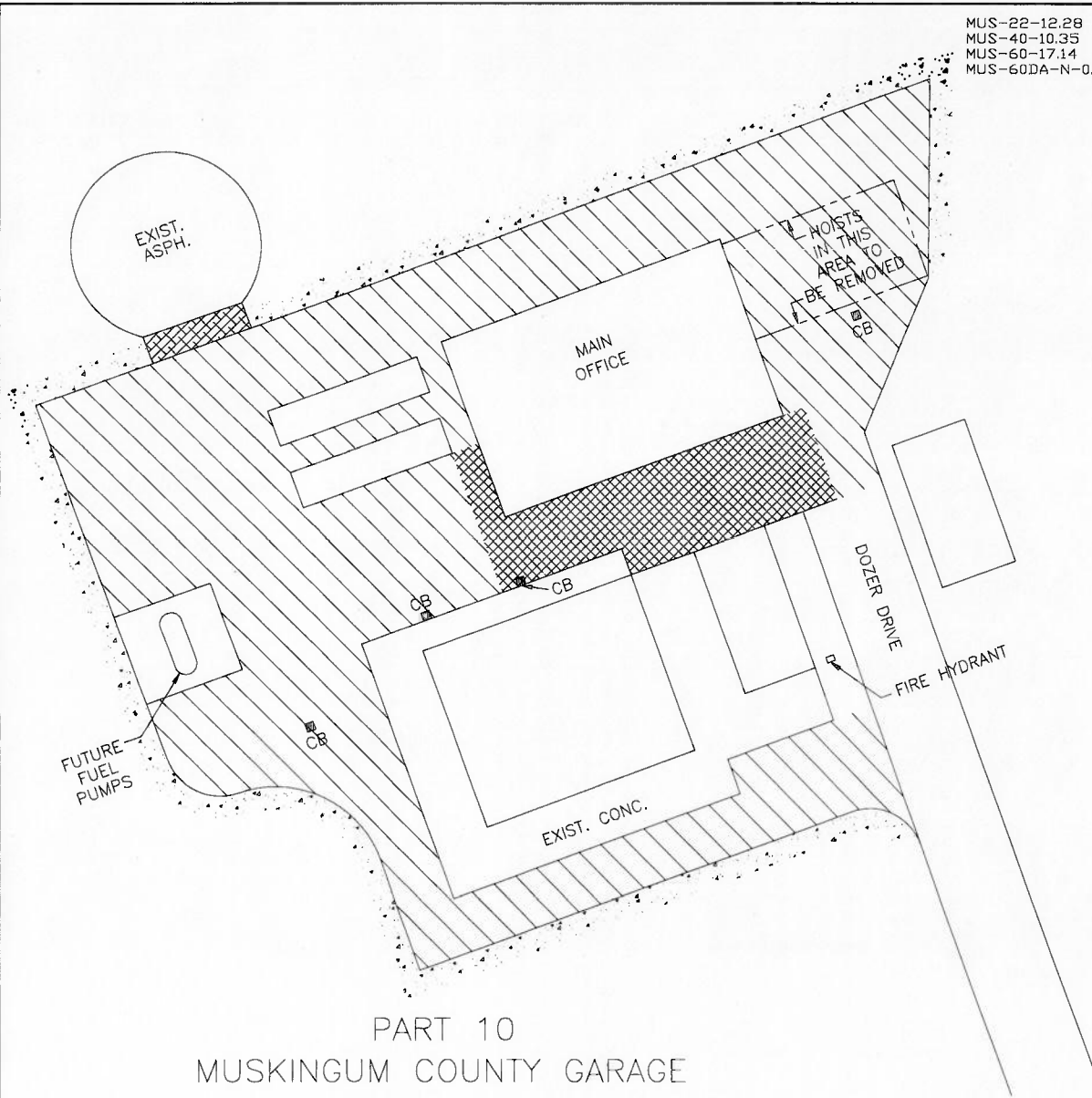


PLANING DETAIL
SR 666
SLM 0.39A ± — SLM 0.58 ±

SEE SHT. 5
FOR PLANING
NOTE.

MD-14

07-08-94 (MAINT - C) CD-GAR2



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

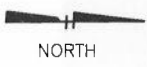
CALC. BY	
DATE	
CHECKED BY	PLAN NO.
DATE	

50
80

EXISTING AND PROPOSED AREAS

-  EXISTING ASPHALT AREA 974 SQ.YD. - SECTION A
-  EXISTING GRAVEL AREA 8021 SQ.YD. - SECTION B
-  PROPOSED APPROACH 134 SQ.YD. - SECTION C
-  PROPOSED ITEM 617 COMPACTED AGGREGATE

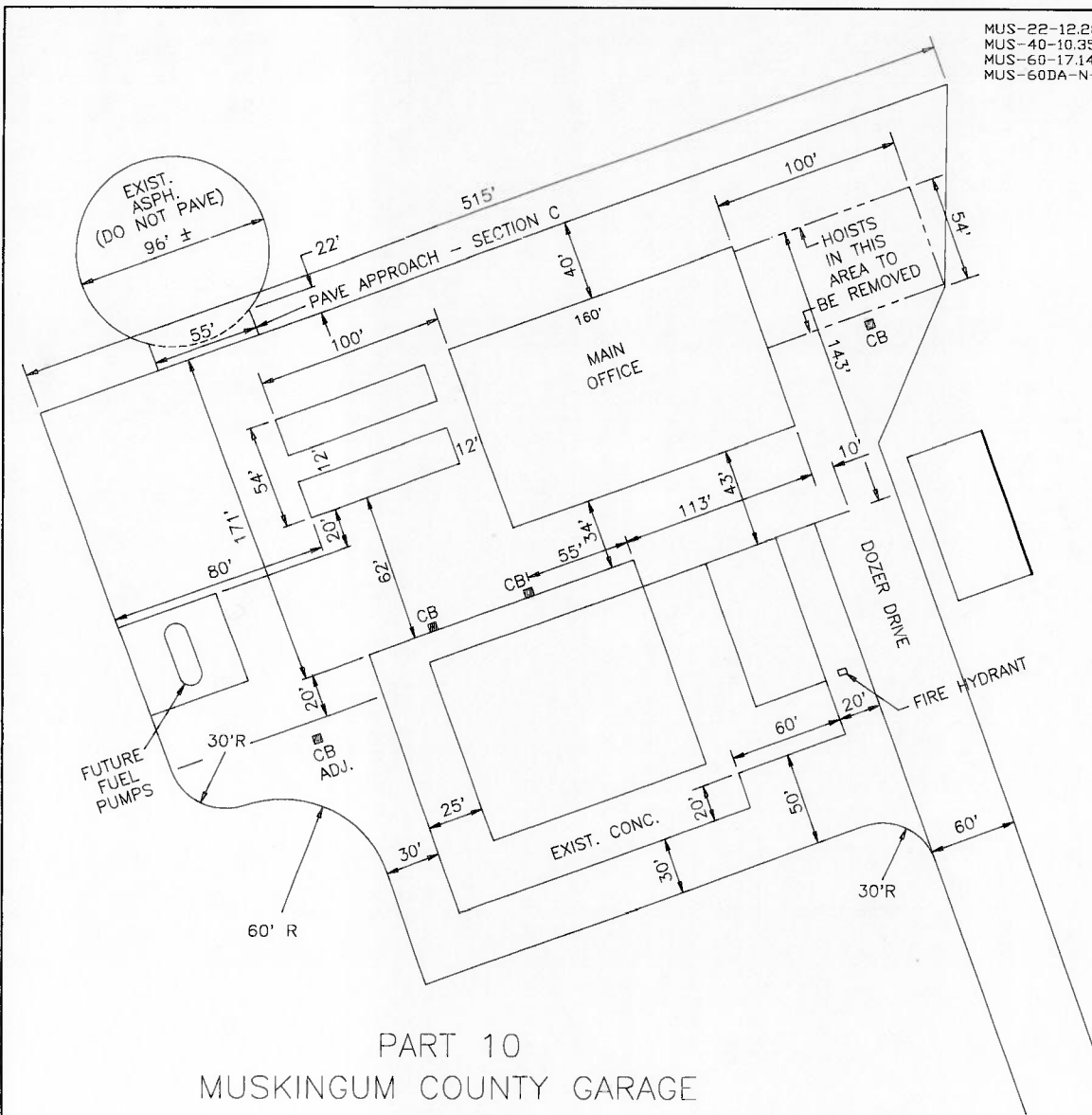
NOTE:
ALL HATCHED AREAS (BOTH ASPHALT
AND GRAVEL) SHALL BE PAVED.



PART 10
MUSKINGUM COUNTY GARAGE

MD-14

07-08-94 (MAINT - C) CO-GAR



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
DAK PARK OUTPOST

CALC. BY	
DATE	
CHECK BY	
DATE	
PLAN NO.	

51
80

PART 10
MUSKINGUM COUNTY GARAGE



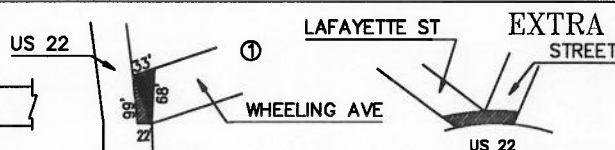
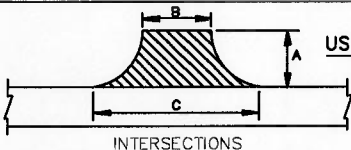


MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

$$\textcircled{\frac{53}{80}}$$

OAK PARK
PART 11



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

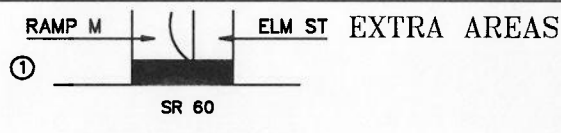
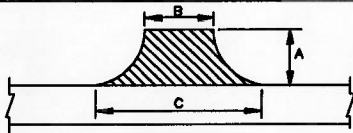
CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

54
80

* SEE SHT. 20

** SEE SHT. 21

P A R T	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS											
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE				EXISTING SURFACE	408 BITUMINOUS PRIME COAT @ 0.40 gal./s.y. GAL.	254 PAVEMENT PLANING, BITUMINOUS SQ.YD.			
									TACK COAT @ 0.05 gal./s.y. GAL.	COVER AGGR. @ 1 lbs./s.y. TON	THICK INCHES	CU. YD.		THICK INCHES						
											448 INTERMEDIATE COURSE, TYPE 1, AC-20	448 SURFACE COURSE, TYPE 1, AC-20								
1	US 22	ZANESVILLE	CL	US 22 @ US 40	33	39	74	207	10			9	1.5	ASPHALT		207				
			RT	GREENWOOD AVE	35	36	65	196	10			8	1.5	ASPHALT		196				
			LT	UNDERWOOD				40 *	2			2	1.5	ASPHALT		40				
			LT	ALLEY	20	11	18	32	2			1	1.5	ASPHALT		32				
			RT	ALLEY	23	15	25	51	3			2	1.5	ASPHALT		51				
			LT	ALLEY	24	15	26	55	3			2	1.5	ASPHALT		55				
			RT	ALLEY	17	12	24	34	2			1	1.5	ASPHALT		34				
			RT	WHEELING AVE ①				246	12			10	1.5	ASPHALT		246				
			LT	MARKET ST.				22 **	1			1	1.5	ASPHALT		22				
			LT	ALLEY	17	12	25	35	2			2	1.5	ASPHALT		35				
			LT	BEULAH AVE	17	20	47	63	3			3	1.5	ASPHALT		63				
			LT	LAFAYETTE ST & STREET	28	57	75	205	10			9	1.5	ASPHALT		205				
			RT	McOWEN ST	27	28	46	111	6			5	1.5	ASPHALT		111				
			RT	ALLEY	17	10	24	32	2			1	1.5	ASPHALT		32				
			RT	GLESSNER AVE	18	24	40	64	3			3	1.5	ASPHALT		64				
			LT	HAMLIN AVE	18	22	46	68	3			3	1.5	ASPHALT		68				
			RT	ALLEY	12	15	28	29	1			1	1.5	ASPHALT		29				
			LT	STREET	20	65	103	187	9			8	1.5	ASPHALT		187				
			RT	GREEN ST	18	25	50	75	4			3	1.5	ASPHALT		75				
			LT	FOX AVE	19	24	47	75	4			3	1.5	ASPHALT		75				
			LT	STREET	18	23	36	59	3			3	1.5	ASPHALT		59				
			LT	CEMETERY AVE	38	22	80	215	11			9	1.5	ASPHALT		215				
			RT	STREET	28	20	55	117	6			5	1.5	ASPHALT		117				
			RT	ALLEY	18	22	54	76	4			3	1.5	ASPHALT		76				
1	TOTALS	(TOTALS CARRIED TO SHT. 58)						2294	116			97				2294				
2	US 22		RT	RICHARDS RD	40	42	15	127	6		1	4	4	1.25	ASPHALT					
			RT	BRIARCLIFF RD	27	32	69	152	8		1	4	5	1.25	ASPHALT					
			RT	WESTWOOD DR	21	28	65	109	6		1	3	4	1.25	ASPHALT					
			RT	EASTWOOD DR	37	27	103	267	13		1	7	9	1.25	ASPHALT					
			LT	CLAYTON LN	22	13	41	66	3		1	2	2	1.25	ASPHALT					
			RT	DOWNING DR	28	25	82	166	8		1	5	6	1.25	ASPHALT					
			LT	RICHLINE WAY	16	25	56	72	4		1	2	3	1.25	ASPHALT					
			RT	S. PLEASANT GROVE RD	35	25	62	169	9		1	5	6	1.25	ASPHALT					
			RT	BRYAN DR	30	27	66	155	8		1	4	5	1.25	ASPHALT					
			RT	BROOKSIDE DR	24	28	70	131	7		1	4	5	1.25	ASPHALT					
			RT	INDUSTRIAL BLVD	28	33	80	176	9		1	5	6	1.25	ASPHALT					
			LT	DOZER DR	38	24	95	251	13		1	7	9	1.25	ASPHALT					
			RT	OLD WHEELING RD	32	26	75	180	9		1	5	6	1.25	ASPHALT					
			LT	JACKSON RD	27	28	82	165	8		1	5	6	1.25	ASPHALT					
			RT	HICKS RD	21	24	43	78	4		1	2	3	1.25	ASPHALT					
2	TOTALS	(TOTALS CARRIED TO SHT. 58)						2264	115			64	79							



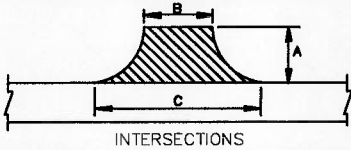
MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

55
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P A R T	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS												
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE				EXISTING SURFACE	408 BITUMINOUS PRIME COAT @ 0.40 gal./s.y. GAL.	254 PAVEMENT PLANING, BITUMINOUS SQ.YD.				
									TACK COAT @ 0.05 gal./s.y. GAL.	COVER AGGR. @ 1 lbs./s.y. TON	THICK INCHES	CU. YD.		THICK INCHES							
												448 INTERMEDIATE COURSE, TYPE 1, AC-20	448 SURFACE COURSE, TYPE 1, AC-20								
3	US 40		LT	OAKLAND AVE	40	24	78	227	11		1	6	6	1	ASPHALT		227				
			LT	GANT ST	30	25	60	142	7		1	4	4	1	ASPHALT		142				
			LT	TOWNSEND ST	20	27	40	74	4		1	2	2	1	ASPHALT		74				
			LT	MICHIGAN ST	18	20	30	50	3		1	1	1	1	ASPHALT		50				
			LT	GRAHAM ST	20	35	60	106	5		1	3	3	1	ASPHALT		106				
			RT	GRAHAM ST	22	30	52	100	5		1	3	3	1	ASPHALT		100				
			LT	ALLEY	24	12	37	65	3		1	2	2	1	ASPHALT		65				
			RT	ALLEY	18	14	30	44	2		1	1	1	1	ASPHALT		44				
			LT	STATE ST	25	43	108	210	11		1	6	6	1	ASPHALT		210				
			RT	STATE ST	33	54	96	275	14		1	8	8	1	ASPHALT		275				
			RT	AGUSTA ST	21	32	54	100	5		1	3	3	1	ASPHALT		100				
			RT	ALLEY	18	12	24	36	2		1	1	1	1	ASPHALT		36				
			RT	OSAGE ST	26	29	52	117	6		1	3	3	1	ASPHALT		117				
			LT	YOUNG ST	25	27	34	85	4		1	2	2	1	ASPHALT		85				
			RT	MELROSE AVE	25	27	44	99	5		1	3	3	1	ASPHALT		99				
			RT	RIDGE ST	32	42	54	171	9		1	5	5	1	ASPHALT		171				
			LT	BEAUMONT ST	23	44	47	116	6		1	3	3	1	ASPHALT		116				
			RT	LUCK AVE	23	44	47	126	6		1	4	4	1	ASPHALT		126				
			RT	ALLEY	15	18	23	34	2		1	1	1	1	ASPHALT		34				
			LT	PINE ST	27	26	74	150	8		1	4	4	1	ASPHALT		150				
			RT	PINE ST	34	43	87	246	12		1	7	7	1	ASPHALT		246				
3	TOTALS	(TOTALS CARRIED TO SHT. 59)						2573	130			72	72				2573				
4	SR 60		LT	MARKET ST	45	42	95	343	17				14	1.5	ASPHALT		343				
			RT	MARKET ST	45	38	78	290	15				12	1.5	ASPHALT		290				
			LT	BLOCKSOM ALLEY	18	12	32	44	2				2	1.5	ASPHALT		44				
			LT	ORCHARD ST	45	42	78	300	15				13	1.5	ASPHALT		300				
			RT	ORCHARD ST	30	26	90	193	10				8	1.5	ASPHALT		193				
			LT	MEADOW ALLEY	25	12	42	75	4				3	1.5	ASPHALT		75				
			LT	SHINNICK ST	50	20	90	306	15				13	1.5	ASPHALT		306				
			RT	EASTMAN ST	30	33	94	212	11				9	1.5	ASPHALT		212				
			LT	ELBERON AVE	27	30	66	144	7				6	1.5	ASPHALT		144				
			RT	RAMP O	60	24	81	350	18				15	1.5	ASPHALT		350				
			RT	ELM ST	72	28	90	472	24				20	1.5	ASPHALT		472				
			LT	RAMP M AND ELM ST (1)	33	74	104	326	16				14	1.5	ASPHALT		326				
			LT	HOWARD ST	40	52	117	376	19				16	1.5	ASPHALT		376				
			RT	HOWARD ST	42	38	110	345	17				14	1.5	ASPHALT		345				
			LT	ZANE ST	47	49	115	428	21				18	1.5	ASPHALT		428				
			RT	SR 666 (SEE PART 8)																	
PART 4 CONTINUED ON NEXT SHEET																					



*STREETS ARE LISTED IN
DIRECTION OF CONSTRUCTION
REVERSE OF ACTUAL SLMS.

EXTRA AREAS

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHKD. BY _____	
DATE _____	

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P A R T	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS												
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE				EXISTING SURFACE	408 BITUMINOUS PRIME COAT @ 0.40 gal./s.y. GAL.	254 PAVEMENT PLANING, BITUMINOUS SQ. YD.				
									TACK COAT @ 0.05 gal./s.y. GAL.	COVER AGGR. @ 1 lbs./s.y. TON	THICK INCHES	CU. YD.		THICK INCHES							
												448 INTERMEDIATE COURSE, TYPE 1, AC-20	448 SURFACE COURSE, TYPE 1, AC-20								
PART 4 CONTINUED FROM PREVIOUS SHEET																					
			RT	CENTRAL AVE	37	34	72	218	11						9	1.5	ASPHALT		218		
			LT	CENTRAL AVE	34	29	89	223	11						9	1.5	ASPHALT		223		
			LT	ALLEY	28	13	46	92	5						4	1.5	ASPHALT		92		
			RT	ALLEY	64	13	45	206	10						9	1.5	ASPHALT		206		
			LT	LINDEN AVE	75	60	139	829	42						35	1.5	ASPHALT		829		
			RT	LINDEN AVE	66	56	144	733	37						31	1.5	ASPHALT		733		
			RT	ALLEY	38	12	54	139	7						6	1.5	ASPHALT		139		
			LT	PETERS ALLEY	29	21	58	127	6						5	1.5	ASPHALT		127		
			RT	BLUE ST	39	27	84	241	12						10	1.5	ASPHALT		241		
			RT	EUCLID AVE	52	34	98	381	19						16	1.5	ASPHALT		381		
			LT	ALLEY	24	23	57	107	5						5	1.5	ASPHALT		107		
			RT	ALLEY	20	12	45	63	3						3	1.5	ASPHALT		63		
4	TOTALS	(TOTALS CARRIED TO SHT. 59)						7563	379						319				7563		
6		* SR 60DA-N	LT	MAPLE AVE	35	95	90	360	18						15	1.5	ASPHALT		360		
			RT	MAPLE AVE	40	62	110	382	19						16	1.5	ASPHALT		382		
			RT	ALLEY	25	15	50	90	5						4	1.5	ASPHALT		90		
			LT	ALLEY	18	13	36	49	3						2	1.5	ASPHALT		49		
			RT	ASHLAND AVE	36	63	72	270	14						11	1.5	ASPHALT		270		
			RT	MYRTLE AVE	47	32	78	287	14						12	1.5	ASPHALT		287		
			LT	CULBERTSON AVE	47	28	103	342	17						14	1.5	ASPHALT		342		
			RT	HAZEL AVE	33	33	57	165	8						7	1.5	ASPHALT		165		
			LT	CONVERS AVE	25	25	52	107	5						5	1.5	ASPHALT		107		
6	TOTALS	(TOTALS CARRIED TO SHT. 60)						2052	103						86				2052		
7	SR 146	*	LT	BLUE AVE	60	40	156	653	33						27	1.5	ASPHALT		653		
			RT	BLUE AVE	24	30	50	107	5						5	1.5	ASPHALT		107		
			LT	ALLEY	24	18	27	60	3						3	1.5	ASPHALT		60		
			RT	EDWARDS LN	34	22	58	151	8						6	1.5	ASPHALT		151		
			RT	MARWOOD DR	37	18	82	206	10						9	1.5	ASPHALT		206		
			LT	NEWARK RD.	52	27	115	410	21			1	11	14	1.25	ASPHALT					
7	TOTALS	(TOTALS CARRIED TO SHT. 60)						1587	80					11	64				1177		



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.68

MUS-148-13.37
MUS-866-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

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MD-13

ASPHALT CONCRETE

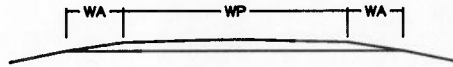
MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

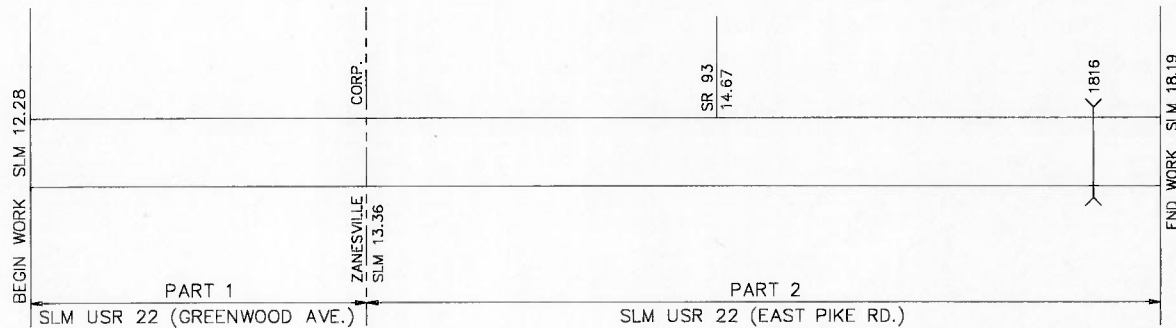
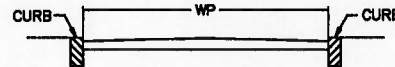
CALC. BY _____	PLAN NO. _____
DATE _____	
CHD. BY _____	
DATE _____	

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TYPICAL 1



TYPICAL 2



BRIDGE DEDUCTIONS

PART 2
MUS-22-1816 11.83' x 24' SEE SHT. 65

(1) BRIDGE LENGTH x PAVEMENT WIDTH (2) AVERAGE										PAVEMENT DATA										
PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	T Y P I C A L	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				254 PAVEMENT PLANING, BITUMINOUS SQ. YD.	202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN EACH	614 TEMPORARY CENTER LINE, CLASS II MILE	614 TEMPORARY LANE LINE, CLASS II MILE				
			MILES	LIN. FT.					407		ASPHALT CONCRETE									
									TACK COAT @ 0.05 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES AVG.	ITEM 448 THICK INCHES SURFACE COURSE, TYPE 1, AC-20 CU. YDS.								
1	US22	12.28-13.01 13.01-13.36	0.73 0.35	3854 1848	38 39	2 2	404 404	16272 8008	814 400			1.5 1.5	678 334	16272 8008		1.46 0.70				
	EXTRA TACK COAT FOR LONGITUDINAL JOINT								20											
	EXTRA AREAS FROM SHEET 54								2294	116			97	2294						
1	TOTALS		1.08	5702				26574	1350				1109	26574	64	2.16	0.40			
2	US 22	13.36-14.00 14.00-14.68 14.68-14.71 14.71-17.31 17.31-17.47 17.47-17.77 17.77-17.85 17.85-18.19	0.64 0.68 0.03 2.60 0.16 0.30 0.08 0.34	3379 3590 158 13728 845 1584 422 1795	31 30 27(2) 24 27.5(2) 31 27.5(2) 24	1 1 1 1 1 1 1 1	404 404 404 404 404 404 404 404	11639 11967 474 36608 2582 5456 1289 4787	582 598 24 1830 129 273 65 239		1 1 1 1 1 1 1 1	323 332 13 1017 72 152 36 133	1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	404 416 17 1271 90 189 45 166			1.28 2.62 0.06 5.20 0.32 0.60 0.16 0.68		0.96	
	EXTRA TACK COAT FOR LONGITUDINAL JOINT								74											
	EXTRA AREAS FROM SHEET 54								2264	115			64	79						
	BRIDGE DEDUCTIONS (1)								(32)	(2)			(1)	(1)						
2	TOTALS		4.83	25506				77034	3927			2141	2676		899	10.92	1.44			

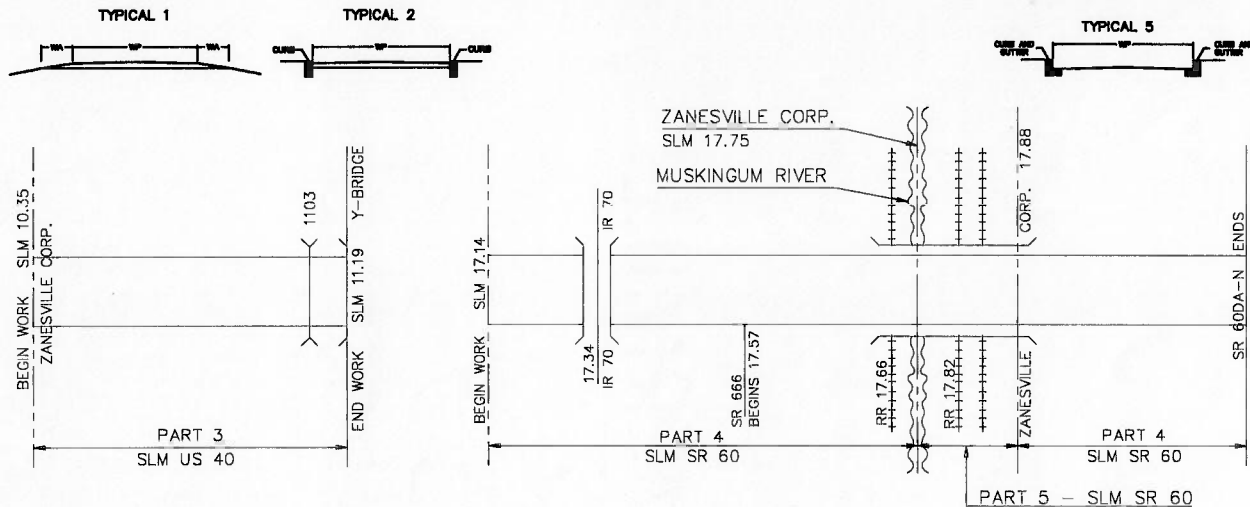
ASPHALT CONCRETE

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHKD. BY _____	
DATE _____	

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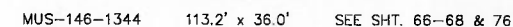
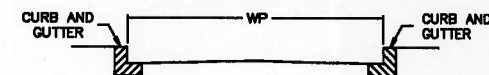


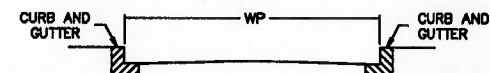
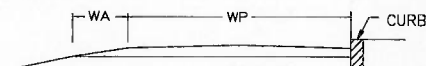
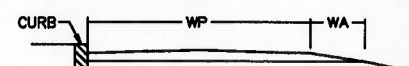
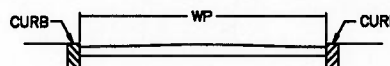
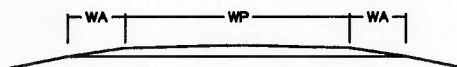
BRIDGE DEDUCTIONS

PART 3		
MUS-40-1103	22.33' x 48.67'	SEE SHT. 65
PART 4		
MUS-60-1734 (MUS-70-1209)	90.33' x 59' (BRIDGE WIDTH) (PAVT WIDTH)	SEE SHT. 65
PART 4 & PART 5		
MUS-60-1766	840.60' x 54.0'	SEE SHT. 66-74

* CALCULATED FROM ORIGINAL PLANS

(1) BRIDGE LENGTH x PAVEMENT WIDTH			(2) AVERAGE			PAVEMENT DATA														
PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				254 PAVEMENT PLANING, BITUMINOUS	202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN	614 TEMPORARY CENTER LINE, CLASS II	614 TEMPORARY LANE LINES, CLASS II				
			MILES	LIN. FT.					407		ASPHALT CONCRETE									
									TACK COAT @ 0.05 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES AVG.	ITEM 448 THICK INCHES								SURFACE COURSE, TYPE 1, AC-20 CU. YDS.
3	US 40	10.35-10.38	0.03	158	24	1	404	421	21		1	12	1	12	421					
		10.38-10.40	0.02	106	38	1	404	448	22		1	12	1	12	448					
		10.40-10.88	0.48	2534	38	2	404	10699	535		1	297	1	297	10699					
		10.88-11.19	0.31	1637	44(2)	2	404	8003	400		1	222	1	222	8003					
EXTRA AREAS FROM SHEET 55								2573	130		72		72	2573						
EXTRA TACK COAT FOR LONGITUDINAL JOINT									10											
BRIDGE DEDUCTIONS (1)								(109)	(6)		(3)		(3)							
3	TOTALS		0.84	4435				22035	1112			612		612	22144					
4	SR 60	17.14-17.75	0.61	3221	VARIES	5	404	20894*	1045				1.5	871	20894				2.44	
		17.88-18.31	0.43	2270	VARIES	5	404	14584*	729				1.5	608	14584				1.72	
EXTRA AREAS FROM SHEET 56								7563	379				319	7563						
EXTRA TACK COAT FOR LONGITUDINAL JOINT									38											
BRIDGE DEDUCTIONS (1)								(3014)	(151)				(126)	(3014)						
4	TOTALS		1.04	5491				40027	2040					1672	40027				4.16	
5	SR 60	17.75-17.88	0.13	686	48	5	404	3659*	183			1.5	153	3659					0.52	
EXTRA TACK COAT FOR LONGITUDINAL JOINT									2											
5	TOTALS		0.13	686				3659	185					153	3659				0.52	

MD-13
07-08-94 (MAINT - C) M22AC3

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MUS-148-13.37
MUS-866-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

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007-08-94 (MAINT - C) M220DNR

PAVED SHOULDERS

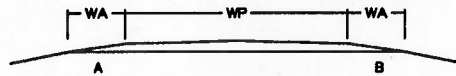
MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	

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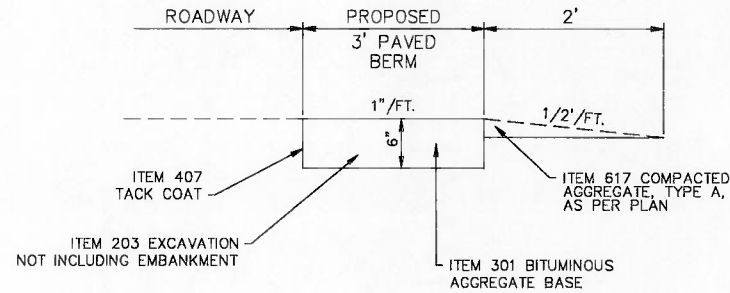
TYPICAL 1



▲ PROPOSED PAVED BERM:

PROPOSED BERM SHALL BE 3' IN WIDTH AS SHOWN IN THE PROPOSED PAVED BERM DETAIL. TREATMENT SHALL BE ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT (6" DEEP), REMOVAL AND DISPOSAL OF EXCAVATED MATERIAL AND SUBGRADE COMPACTION SHALL BE INCIDENTAL TO ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT AND MEET THE APPROVAL OF THE ENGINEER. THE FACE OF THE TRENCH SHALL BE COATED WITH ITEM 407 TACK COAT, THEN 6" OF ITEM 301 BITUMINOUS AGGREGATE BASE SHALL BE PLACED IN TRENCH (PLACED AND COMPACTED IN TWO LAYERS OF EQUAL THICKNESS).

AFTER WORK DESCRIBED ABOVE HAS BEEN COMPLETED ROADWAY AND PAVED BERMS ARE READY FOR RESURFACING. THE DESIGNATED AREA TO RECEIVE THIS TREATMENT HAS BEEN SHOWN BELOW ALONG WITH QUANTITIES.



** NOTE:
QUANTITIES INCLUDE MAILBOX TURNOUTS WITHIN PROPOSED BERM AREA. EXCAVATION AND BITUMINOUS AGGREGATE BASE SHALL BE 6" DEEP. WHEN TURNOUTS APPLY, WORK FOR THIS SHALL BE PERFORMED AS SHOWN IN PROP. BERM NOTE ▲ AND DETAIL. SEE STD. DWG. BP-4.1, 2-21-92 FOR TYPICAL OF MAILBOX APPROACH.

PROPOSED PAVED BERM DETAIL
(TYPICAL BOTH SIDES)

PAVED SHOULDER DATA

* 2.50" AVG. THICKNESS

PAVED SHOULDER DATA															* 2.50" AVG. THICKNESS										* N O T E S
P A R T	R O U T E	L O G P O I N T T O L O G P O I N T	L E N G T H		T Y P I C A L	P R O P O S E D W I D T H (F.T.)				S H O U L D E R A R E A S Q. Y D S.	448				301		407	203		617		W A T E R M G A L S.			
											A S P H A L T C O N C R E T E				B I T U M I N O U S A G G R E G A T E B A S E		T A C K C O A T	E X C A V A T I O N N O T I N C L U D I N G E M B A N K M E N T C O N S T R U C T I O N		C O M P A C T E D A G G R E G A T E	S H O U L D E R P R E P A R A T I O N				
			THICK INCHES	INTERMEDIATE COURSE, TYPE 1, AC-20 CU.YD.		THICK INCHES	SURFACE COURSE TYPE 1, AC-20 CU.YD.	AVG. THICK INCHES	CU.YDS.		CU.YDS.	THICK INCHES	CU.YD.	AS PER PLAN 2'X 2.75" AVER. THICKNESS TO BACK UP PAVED BERM CU.YDS.	SQ.YDS.										
2	US 22	13.36 – 14.00	0.64	3379	1	3	3			2253	1	63	1.25	78			113			115					
	▲	14.00 – 14.63	0.63	3326	1	3	3			2217	1	62	1.25	77	6	561**	92	6	561**	113					
		14.63 – 18.19	3.56	18797	1	3	3			12531	1	348	1.25	435			627			638					
2	TOTALS		4.83	25502						17001		473		590		561**	832		561**	866		8			
3	US 40	10.35 – 10.365	0.015	79	1	3.5	3.5			61	1	2	1	2			3			2*					
		10.365 – 10.38	0.015	79	1	10	4			123	1	3	1	3			6			2*		1			
3	TOTALS		0.03	158						184		5		5			9			4		1			
7	SR 146	13.37 – 13.48	0.11	581	1	3	3			387	1	11	1.25	13			19			20		1			

MUS-146-13.37
MUS-666-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____ DATE _____	
CHKD. BY _____ DATE _____	PLAN NO.

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A diagram of a continuous beam with three spans. The spans are labeled WA, WP, and WA from left to right. The beam is supported at two points, A and B, which are located at the boundaries of the first and third spans respectively. The beam is shown with a slight upward curvature.

A diagram showing a cross-section of a road. On the left, a vertical hatched line represents a curb, labeled "CURB". To the right of the curb, a horizontal line represents the road surface. A dimension line labeled "WA" indicates the wheelbase, which is the distance between the two wheels of a vehicle.

A diagram of a curved beam. A horizontal dimension line above the beam is labeled 'WA'. At the right end of the beam, there is a vertical section indicated by a hatched rectangle and labeled 'CURE'.

[illegible]

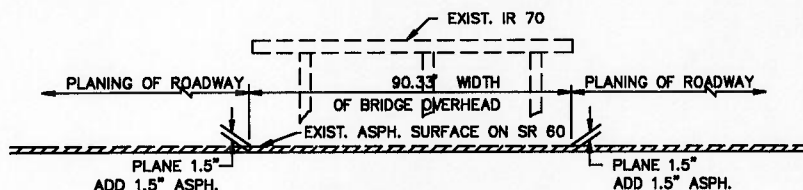
BRIDGE DECK TREATMENT

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-866-0.00
MUS.CO.GARAGE
OAK PARK OUTPOST

CALC. BY _____	DATE _____
CHECK BY _____	DATE _____
PLAN NO. _____	

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NOTE: PLANE UNDER OVERPASS
ALONG WITH PLANING OPERATION
ON ROADWAY. (SAME THICKNESS)
PAVT WIDTH HERE IS 59'.

PLANING UNDER MUS-70-1209
ON SR 60

PROPOSED PLANING

* NOTE: GRIND OFF 1.5"±. THE INTENT OF GRINDING ASPHALT OFF
APPROACH SLABS IS TO EXPOSE EXIST. CONCRETE. CARE SHALL
BE TAKEN WHEN GRINDING NOT TO DAMAGE EXIST. CONCRETE.
AFTER GRINDING, APPR. SLABS SHALL BE COVERED WITH TYPE D
WATERPROOFING. PLANING QUANTITY HAS ALREADY BEEN CALCULATED WITH THE
MAINLINE.

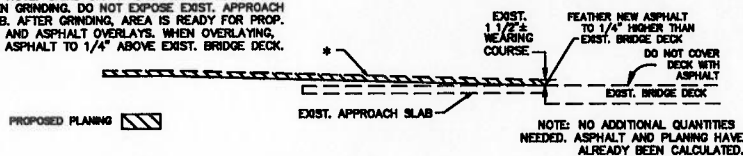


PLANING DETAIL ON APPROACH SLABS
MUS-60-1766 (PART 4)
TYPICAL BOTH ENDS

▲ MUS-146-1344 (WEST END OF BRIDGE)
AREA UNDER OVERPASS

■ FOR INFORMATION ONLY (PLANING IS CALCULATED FROM WIDTH SHOWN ABOVE)										BRIDGE DECK DATA													
PART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)	WIDTH	BRIDGE DECK AREA	202	BRIDGE DECK REPAIR			SPECIAL				512	254	ASPHALT CONCRETE		407	ASPHALT CONCRETE					
					WEARING COURSE REMOVED DEPTH -----"	☐ SS-845 LATEX MODIFIED CONCRETE ☐ SS-850 DENSE CONCRETE			PATCHING		STEEL DRIP STRIP			WATERPROOFING, TYPE D	PAVEMENT PLANING, BITUMINOUS	THICK INS.	448 SURFACE COURSE, TYPE 1, AC-20	TACK COAT @ 0.05 GAL./SQ.YD.	THICK INS.	448 INTERMEDIATE COURSE, TYPE 1, AC-20			
						" THICK OVERLAY	VARIABLE THICKNESS OVERLAY	FULL-DEPTH REPAIR	TYPE	SQ.YD.			SQ.FT.										
						SQ.YDS.	SQ.YDS.	CU.YDS.													CU.YDS.	SQ.YDS.	SQ.YD.
2	MUS-22-1816	11.83	48	63.09											1	2	3	1.25	2				
3	MUS-40-1103	22.33	48.67	120.76	(SKIP BRIDGE WHEN PLANING MAINLINE)																		
4	MUS-60-1766	840.60	27/27		(SEE SHTS. 66 THRU 75 FOR OTHER QUANTITIES)																		
	MUS-70-1209	160.0	90.33	1605.87								300											
4	TOTALS											300	652				33						
5	MUS-60-1766	840.60	27/27		(SEE SHTS. 66 THRU 75)																		
7	MUS-146-1344	113.2	36	452.8	(SEE SHTS. 66-68 AND 76 FOR OTHER QUANTITIES)																▲133		
11	MUS-22-2123				(PAVE OVER -- QUANTITIES ON SHEET 53)																		

NOTE: GRIND OFF 1" CAUTION SHALL BE USED
WHEN GRINDING. DO NOT EXPOSE EXIST. APPROACH
SLAB. AFTER GRINDING, AREA IS READY FOR PROP.
TACK COAT AND ASPHALT OVERLAYS. WHEN OVERLAYING,
FEATHER ASPHALT TO 1/4" ABOVE EXIST. BRIDGE DECK.



PLANING DETAIL ON APPROACH SLAB
MUS-146-1344 (EAST END OF BRIDGE)

NOTE: NO ADDITIONAL QUANTITIES
NEEDED. ASPHALT AND PLANING HAVE
ALREADY BEEN CALCULATED.



NOTE: NO ADDITIONAL ASPHALT QUANTITIES
NEEDED. ASPHALT HAS ALREADY BEEN CALCULATED
WITH THE MAINLINE. HOWEVER, A PLANING QUANTITY
HAS BEEN SHOWN ABOVE.

PLANING DETAIL AT APPROACH SLAB
MUS-146-1344 (WEST END OF BRIDGE)

NOTE: AFTER GRINDING, AREA IS READY FOR
PROP. TACK COAT AND ASPHALT OVERLAYS.

PROPOSED PLANING

BRIDGE NOTES

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

DATE
BY
DATE

PLAN 123

OHIO
AREA
REGION

66
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BRIDGE REPAIR
MUS-60-1766
MUS-146-1344
PARTS 4, 5, & 7

REFERENCE

DETAILED DRAWINGS OF THE EXISTING STRUCTURES MAY BE INSPECTED IN THE DISTRICT 5 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, JACKSONTOWN, OHIO. COPIES CAN BE OBTAINED THRU CONTRACT SALES DEPARTMENT OF THE OHIO DEPARTMENT OF TRANSPORTATION 25 S. FRONT STREET COLUMBUS, OHIO 43215, PHONE: 614-466-3778.

DESIGN SPECIFICATIONS

THESE STRUCTURE MODIFICATIONS CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1989, AND THE OHIO SUPPLEMENT TO THESE SPECIFICATIONS.

EXISTING STRUCTURE VERIFICATION

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

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

GENERAL PROVISIONS

THE CONTRACTOR'S ATTENTION IS CALLED TO ALL OF SECTION 100 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION.

MOBILIZATION

THE CONTRACTOR SHALL ON ANY CONTRACT FOR WHICH HIS BID EXCEEDS \$50,000.00 INCLUDE AN AMOUNT TO COVER ANY APPLICABLE EXPENDITURES REFERRED TO UNDER ITEM 624 OF THE 1991 CONSTRUCTION AND MATERIAL SPECIFICATIONS. PAYMENT SHALL BE THE LUMP SUM BID PRICE FOR ITEM 624, MOBILIZATION.

CONSTRUCTION NOTIFICATION

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORG PUBLIC, THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 CONSTRUCTION ENGINEER WITH COPIES FOR THE DISTRICT 5 TRAFFIC ENGINEER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE ACTIVATING SUCH CLOSURE OR LANE RESTRICTION.
SEND NOTIFICATION TO:

CHRISTOPHER ENGLE
DISTRICT 5 CONSTRUCTION ENGINEER
P. O. BOX 306
JACKSONTOWN, OHIO 43030
PHONE: (614) 323-4400 EXT. 240

ESTIMATED QUANTITIES

AN ESTIMATED AMOUNT OF THE FOLLOWING QUANTITIES HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR BIDDING PURPOSES, BUT FINAL QUANTITIES SHALL BE DETERMINED BY ACTUAL FIELD MEASUREMENTS AT THE COMPLETION OF THE WORK.

ITEM	SPECIAL	QUANTITY	UNIT
	PATCHING CONCRETE BRIDGE DECKS, TYPE II	18	SQ. YD.
	MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS)	271	CU. YD.

REMOVED MATERIALS

ALL REMOVED MATERIALS UNLESS NOTED ELSEWHERE IN THE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE JOB SITE.

ITEM 517 RAILING, PIPE, AS PER PLAN (MUS-60-1766)

THE CONTRACTOR SHALL REMOVE AND REPLACE THE 22'-1 1/2" SECTION OF 3 1/2" O.D. ALUMINUM TUBE ON THE EAST SIDE OF THE DECK AT THE 2ND LIGHT STANDARD FROM THE REAR OF THE BRIDGE AND ON THE WEST SIDE OF THE DECK BETWEEN THE 2ND AND 3RD LIGHT STANDARD FROM THE FORWARD END OF THE BRIDGE AS PER STD. DWG. BR-2-82. THE 3 RAIL POSTS SUPPORTING EACH OF THESE SECTIONS SHALL BE REPLACED ALSO. THE CONTRACTOR SHALL VERIFY THE ALUMINUM TUBE LENGTHS PRIOR TO ORDERING.

PAYMENT SHALL INCLUDE ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 513 - STRUCTURAL STEEL (TEMPORARY SUPPORTS) (WEB REPAIR) (MUS-60-1766)

THIS WORK INCLUDES ALL LABOR AND MATERIALS NECESSARY TO SUPPORT THE STRUCTURE AT THE FORWARD ABUTMENT AT BEARINGS 4 AND 7. DETAILS OF THE SUPPORT SYSTEM AND PROCEDURES (3 SETS) SHALL BE SUBMITTED TO THE DIRECTOR 15 DAYS PRIOR TO THE SUPPORT OPERATIONS AND WORK SHALL NOT COMMENCE BEFORE THE DIRECTOR'S APPROVAL IS GIVEN. THE PLANS SHALL BE DESIGNED SUBMITTED AND REVIEWED AS FOR FALSEWORK ACCORDING TO THE REQUIREMENTS IN SECTION 501.06 OF THE CMS. THE CONTRACTOR SHALL USE ALL REASONABLE CARE TO AVOID STRUCTURAL DAMAGE, ACCIDENTS OR INTERFERENCE WITH TRAFFIC AND PHASE CLOSURES.

APPROVAL OF THE ABOVE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR THE BEHAVIOR OF THE SUPPORT PROCEDURE PROPOSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND ACCIDENTS RESULTING FROM INADEQUATE SAFETY PROCEDURES. PAYMENT FOR THE ABOVE WORK WILL BE MADE AT THE PRICE BID FOR ITEM 513 STRUCTURAL STEEL (TEMPORARY SUPPORTS).

BRIDGE NOTES

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

CALC. BY D.D.H.
DATE 7-12-91
CHKD. BY B.S.D.
DATE 7-27-91

PLAN 123

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BRIDGE REPAIR
MUS-60-1766
MUS-146-1344
PARTS 4, 5, & 7

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFERENCE SHALL BE MADE
TO STANDARD DRAWINGS

BR-2-82 11-1-82
MC-9.2 5-6-91
MT-95.40 10-1-92
MT-97.10 4-29-88
PCB-91 4-29-92

REFERENCE SHALL BE MADE TO
SUPPLEMENTAL SPECIFICATIONS

910 05-20-91
933 02-10-87

DECK OVERLAY LIMITATIONS (MUS-60-1766)

NO SCARIFICATION SHALL BE PERFORMED AFTER OCTOBER 1. DECKS THAT ARE SCARIFIED PRIOR TO OCTOBER 1, SHALL BE POURED NO LATER THAN OCTOBER 15. NO 24 HOUR LANE CLOSURES SHALL BE PERMITTED BETWEEN OCTOBER 18 AND MARCH 15. IF THE CONTRACTOR FAILS TO HAVE THE BRIDGE DECK OPEN BY OCTOBER 15, HE SHALL PLACE ITEM 404 ASPHALT CONCRETE ON THE DECK TO ALLOW THE SAFE TRAVEL OF THE PUBLIC. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE PROJECT ENGINEER AND AT THE CONTRACTOR'S EXPENSE.

BRIDGE DECK OVERLAY (VARIABLE THICKNESS) (MUS-60-1766)

THE CONTRACTOR SHALL MAKE AVAILABLE TO THE ENGINEER SUFFICIENT SPRAY PAINT TO OUTLINE THE REMOVAL AREAS. THE COST OF THE SPRAY PAINT SHALL BE INCLUDED IN THE BRIDGE DECK OVERLAY (VARIABLE THICKNESS). IN THE EVENT OF RAIN, THE FINAL SOUNDING SHALL BE DONE NO SOONER THAN 24 HOURS AFTER THE RAIN, WHICH SHALL INCLUDE 8 HOURS OF GOOD DRYING WEATHER. IN NO CASE SHALL THE FINAL SOUNDING BE MADE IF THE DECK IS DAMP. FINAL SOUNDING MAY INCLUDE ONE OR MORE ATTEMPTS TO ASSURE THAT ALL DETERIORATED CONCRETE HAS BEEN REMOVED.

MICRO-SILICA MODIFIED CONCRETE OVERLAY USING

HYDRODEMOLITION (3/4" THICK) (MUS-60-1766)

THE DEPTH OF THE REMOVAL OF THE BRIDGE DECK SURFACE SHALL BE 1 1/2". THIS REMOVAL SHALL BE MADE WITH HYDRODEMOLITION EQUIPMENT AS DESCRIBED IN THE PROPOSAL NOTE AFTER THE 1 1/4" ASPHALT WEARING COURSE HAS BEEN REMOVED. THE CONTRACTOR SHALL PROVIDE SHIELDING, AS NECESSARY, TO INSURE CONTAINMENT OF ALL DISLODGED CONCRETE, OVERSPRAY AND SPLASH WITHIN THE REMOVAL AREA IN ORDER TO PROTECT VEHICLES AND PEDESTRIANS FROM FLYING DEBRIS BOTH ON AND UNDER THE WORK SITE.

FIELD PAINTING OF EXISTING STEEL, USING EPOXY

AND URETHANE (EEU), AS PER PLAN

THIS ITEM SHALL INCLUDE THE SURFACE PREPARATION (EEU), FULL PRIME (EPOXY), AND COMPLETE COAT FINISH OF ALL NEW STEEL AND EXISTING STEEL WHERE THE EXISTING PAINT IS DAMAGED WHILE PERFORMING THE WORK DETAILED ON SHEET 8/11 AND 8/11 THE FINISH COAT COLOR SHALL BE CARBOLINE - AZTEC RED 2560 1. THE QUALITY CONTROL SPECIALIST SHALL NOT BE REQUIRED. ALL PROVISIONS OF THE EEU PROPOSAL NOTE WILL APPLY TO THIS PROJECT, EXCEPT THOSE WHICH DIRECTLY CONFLICT WITH THIS NOTE.

ITEM 513 STRUCTURAL STEEL, MISC: BEAM REPAIR (MUS-60-1766)

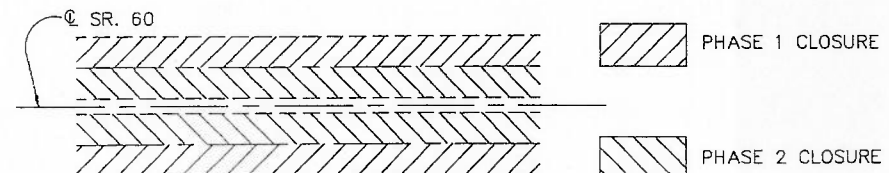
THIS ITEM SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF THE WEBS, AND STIFFENERS AS DETAILED ON SHEET 9/11. AFTER REMOVAL OF THE STRUCTURAL STEEL, THE SURFACES SHALL BE LEFT FREE OF ANY ROUGH AREAS. THE ENGINEER SHALL DETERMINE IF THE AREAS ARE SMOOTH ENOUGH TO ENSURE PROPER INSTALLATION OF THE NEW STRUCTURAL STEEL. A RADIOGRAPHIC INSPECTION AND MAGNETIC PARTICLE INSPECTION SHALL BE REQUIRED TO ALL WELDS AS PER 513.21. ALL EQUIPMENT, MATERIALS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE PROJECT SHALL BE INCLUDED FOR PAYMENT WITH ITEM 513 STRUCTURAL STEEL, BEAM REPAIR, LUMP SUM.

ITEM 614 MAINTAINING TRAFFIC (MUS-146-1344)

THROUGH TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF HALF WIDTH CONSTRUCTION. A MINIMUM LANE WIDTH OF 12'-0" SHALL BE MAINTAINED FOR THE ONE WAY TRAFFIC. SEE STANDARD DRAWING MT-97.10 DATED 04-29-88 FOR SIGN LOCATIONS, TAPER LENGTHS AND OTHER REQUIREMENTS. EQUIPMENT, LABOR AND MATERIALS TO PROVIDE THIS METHOD OF TRAFFIC CONTROL SHALL BE INCIDENTAL TO THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 MAINTAINING TRAFFIC (MUS-60-1766)

THROUGH TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF HALF WIDTH CONSTRUCTION. A MINIMUM LANE WIDTH OF 11'-6" SHALL BE MAINTAINED FOR THE LANE OPEN TO TRAFFIC. SEE STANDARD DRAWING MT-95.40 DATED 10-1-92 FOR SIGN LOCATIONS, TAPER LENGTHS AND OTHER REQUIREMENTS. TEMPORARY EDGE LINES SHALL BE REMOVABLE (947.03 TYPE-C) TAPE AND SHALL BE APPLIED TO ALL TAPERS AND THE FULL LENGTH OF THE CLOSURE. EQUIPMENT, LABOR AND MATERIALS TO PROVIDE THIS METHOD OF TRAFFIC CONTROL SHALL BE INCIDENTAL TO THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.



BRIDGE NO.	DECK AREA SQ. YD.	SOUNDED	
		METHOD	DATE
MUS-60-1766	5043	CORED	5-24-93
MUS-146-1344	453	CHAINED	5-18-93

BRIDGE SUMMARY

BRIDGE REPAIR
MUS-60-1766
MUS-146-1344
PARTS 4, 5, & 7

CALC.
BY P.D.H.
DATE 1-15-81
CRO.
BY R.S.O.
DATE 1-29-81

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	PART 4 BRIDGE NO. MUS-60 1766		PART 5 BRIDGE NO. MUS-60 1766		PART 7 BRIDGE NO. MUS-146 1344		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
	1		--		--		202	11300	1	CU. YD.	PORTIONS OF STRUCTURE REMOVED, ABUTMENT
	2976		2068		--		202	23500	5044	SQ. YD.	WEARING COURSE REMOVED
	1		--		--		511	45700	1	CU. YD.	CLASS "C" CONCRETE, ABUTMENT
	--		264		--		513	15901	264	POUND	STRUCTURAL STEEL, MISC: REPLACEMENT OF DETERIORATED END CROSS FRAMES, AS PER PLAN
	--		LUMP		--		513	16600	LUMP	LUMP	STRUCTURAL STEEL, MISC: BEAM REPAIR
	7		--		--		513	16800	7	EACH	STRUCTURAL STEEL, MISC: PIN AND HANGER MAINTENANCE AND INSPECTION
	--		LUMP		--		513	19400	LUMP	LUMP	STRUCTURAL STEEL (TEMPORARY SUPPORTS)
	2		--		--		516	13200	2	SQ. FT.	½" PREFORMED EXPANSION JOINT FILLER
	23		23		--		517	73501	46	LIN. FT.	RAILING, PIPE, AS PER PLAN
	84		60		--		614	13302	144	EACH	BARRIER REFLECTOR, TYPE B2
	0.3219		0.2237		--		614	22300	0.5456	MILE	TEMPORARY EDGE LINE, CLASS I, 740.05, TYPE C (YELLOW)
	0.3219		0.2237		--		614	22300	0.5456	MILE	TEMPORARY EDGE LINE, CLASS I, 740.05, TYPE C (YELLOW)
	284		284		--		622	40020	568	LIN. FT.	PORTABLE CONCRETE BARRIER, 32"
	1976		1388		--		622	40040	3364	LIN. FT.	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED
	1587		1294		--		642	30000	2881	LIN. FT.	REMOVAL OF PAVEMENT MARKING, CENTER LINE
	--		--		18		SPECIAL	12300	18	SQ. YD.	PATCHING CONCRETE BRIDGE DECKS, TYPE II
	612		58		--		SPECIAL	51400050	670	SQ. FT.	SURFACE PREPARATION (EEU) *
	612		58		--		SPECIAL	51400060	670	SQ. FT.	FULL PRIME (EPOXY) *
	612		58		--		SPECIAL	51400066	670	SQ. FT.	COMPLETE COAT FINISH (URETHANE) *
	--		--		77		SPECIAL	51631300	77	LIN. FT.	SAWING AND SEALING OF EXPANSION JOINTS USING POLYMER MODIFIED ASPHALT BINDER, AS PER PLAN
	2976		2068		--		SPECIAL	51922020	5044	SQ. YD.	MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (¾" THICK)*
	124		87		--		SPECIAL	51922100	211	CU. YD.	MICRO-SILICA MODIFIED CONCRETE OVERLAY (VAR. THICKNESS)*
	LUMP		LUMP		--		SPECIAL	51922300	LUMP	LUMP	TEST SLAB *
	LUMP		--		--		SPECIAL	53000200	LUMP	LUMP	STRUCTURE, MISC: DRAIN TROUGH CLEANING
	LUMP		LUMP		LUMP		614	11000	LUMP	LUMP	MAINTAINING TRAFFIC
							634	10000	LUMP	LUMP	MOBILIZATION

MUS-22-12.28
 MUS-40-10.35
 MUS-60-17.14
 MUS-60DA-N-0.66
 MUS-146-13.37
 MUS-666-0.00
 MUS-CO. GARAGE
 OAK PARK OUTPOST

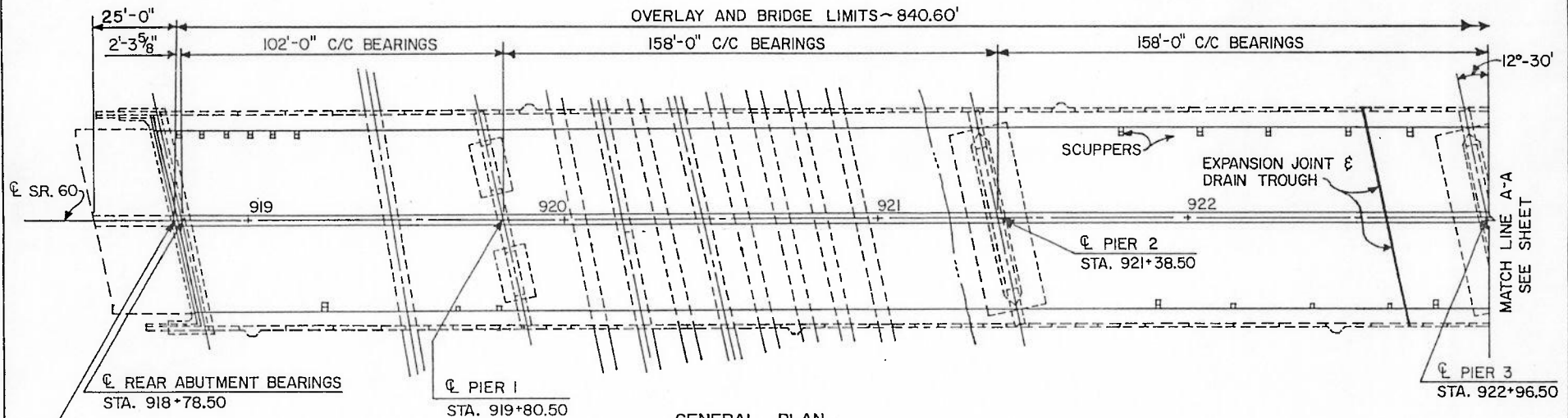
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 BY: J.W.
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 BY: J.W.
 DATE: 7-20-11

PLAN 123

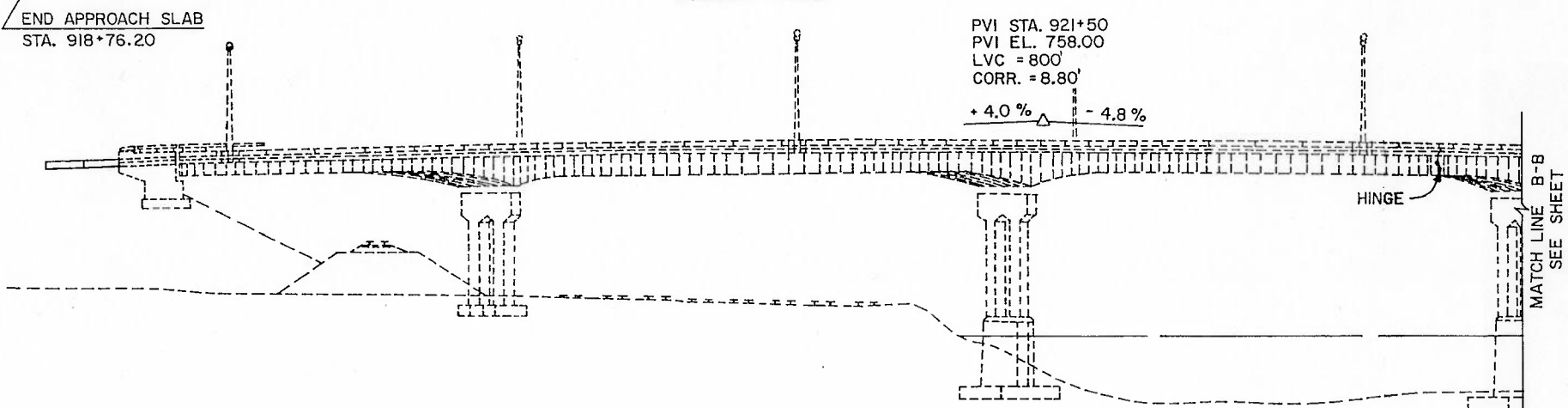
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BRIDGE REPAIR
 MUS-60-1766
 PARTS 4 & 5



GENERAL PLAN



GENERAL ELEVATION

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

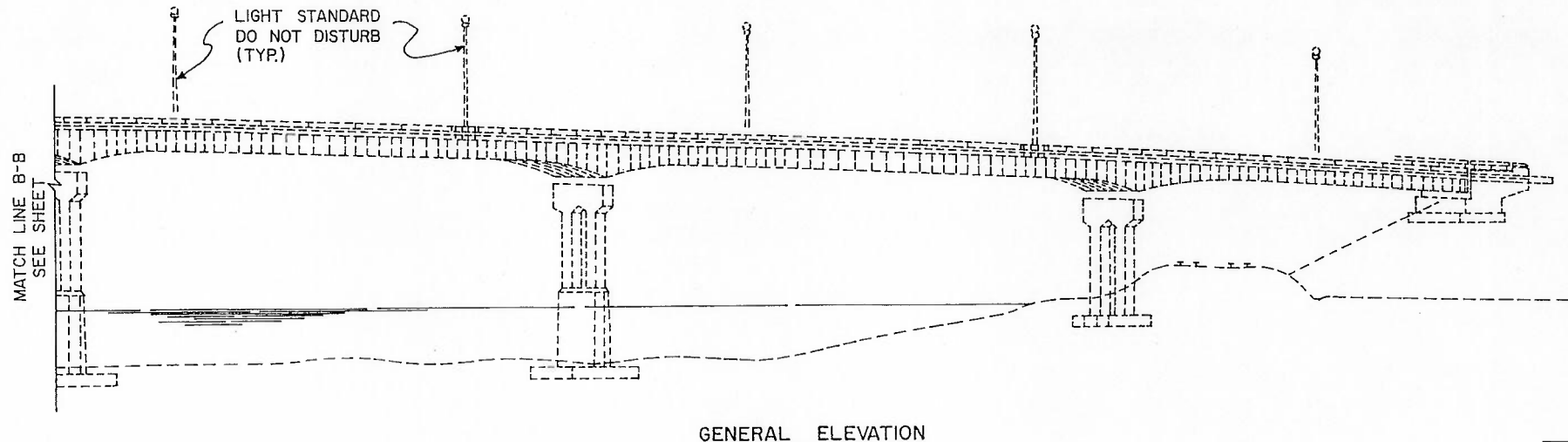
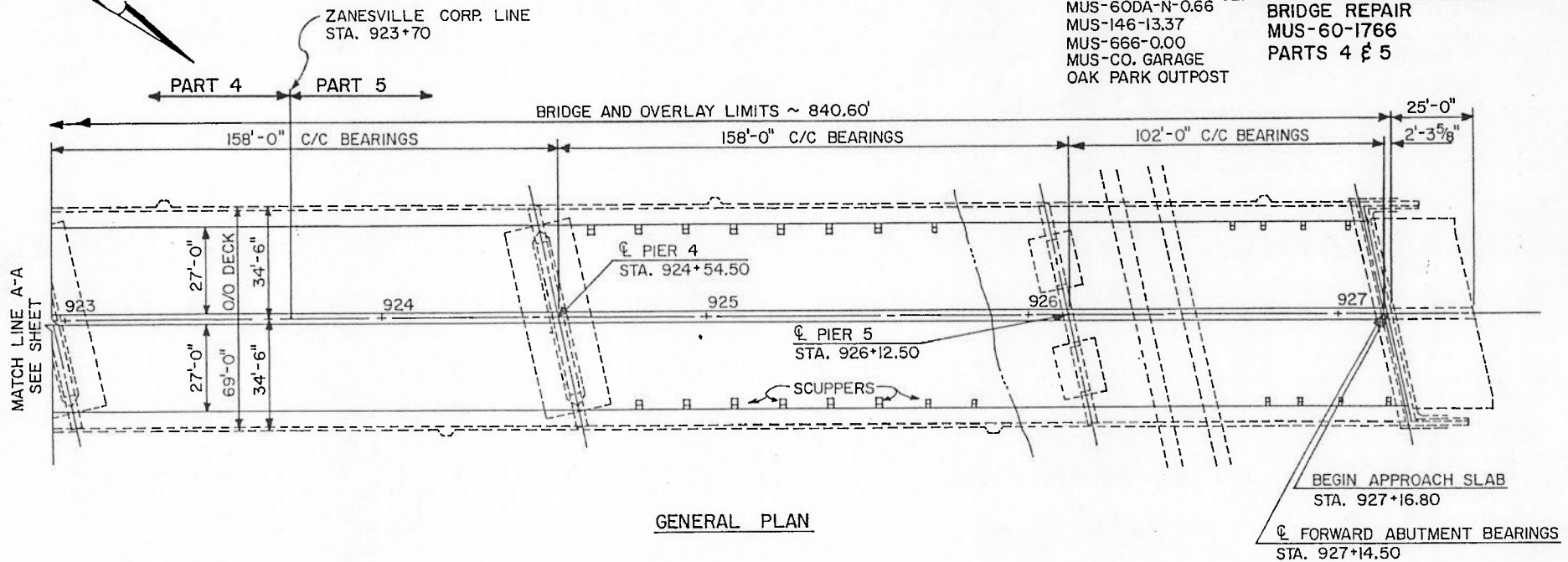
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BY: DPH
DATE: 2/1/22
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DATE: 2/1/22

PLAN 123

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BRIDGE REPAIR
MUS-60-1766
PARTS 4 & 5



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

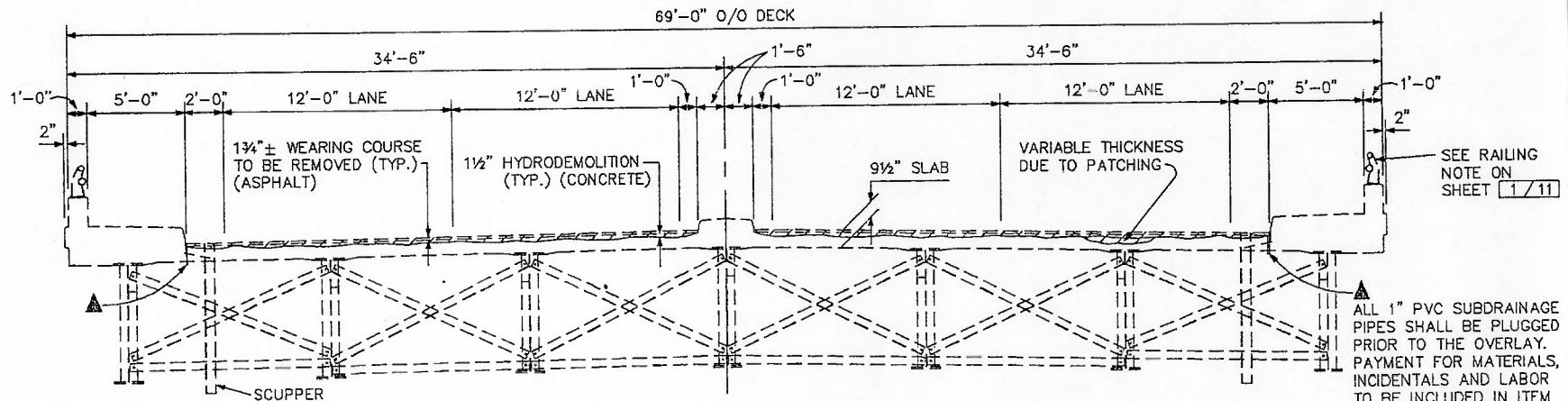
CALL BY P.D.M.
DATE 2/12/77
DRAWN BY J.M.
DATE 7-17-77

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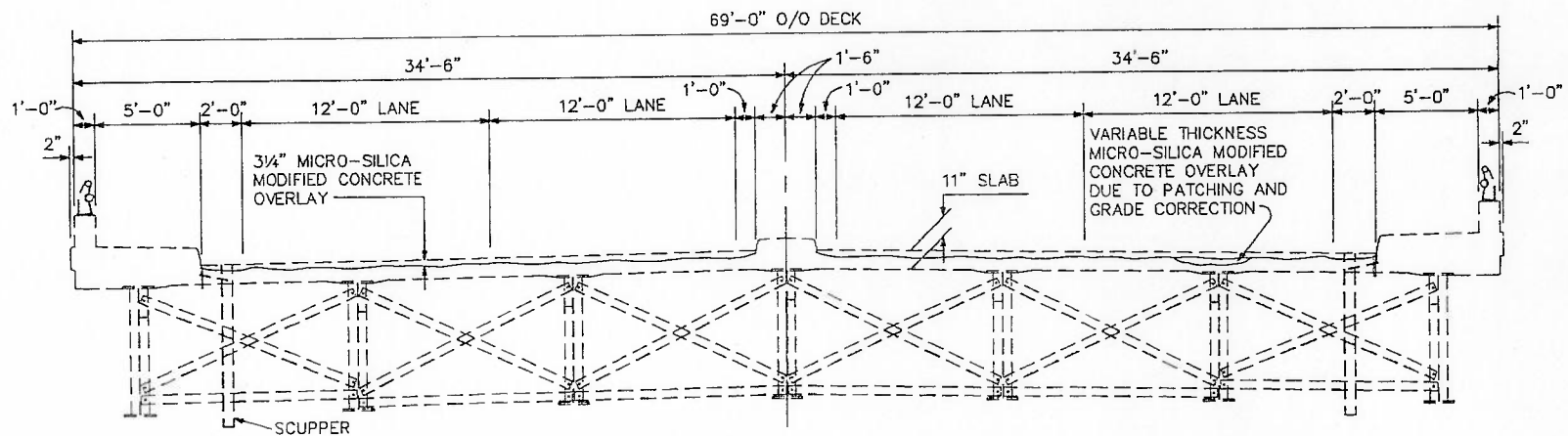
BRIDGE REPAIR
MUS-60-1766
PARTS 4 & 5



EXISTING TRANSVERSE DECK SECTION

NOTE: DECK ORIGINALLY BUILT WITH 1 3/4" ASPHALT WEARING COURSE.

ALL 1" PVC SUBDRAINAGE PIPES SHALL BE PLUGGED PRIOR TO THE OVERLAY. PAYMENT FOR MATERIALS, INCIDENTALS AND LABOR TO BE INCLUDED IN ITEM SPECIAL MICRO-SILICA MODIFIED CONCRETE OVERLAY (3 1/4" THICK)



PROPOSED TRANSVERSE DECK SECTION

PORTABLE CONCRETE BARRIER

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

CALC.
BY D.D.H.
DATE 7-17-77
CHKD.
BY R.S.D.
DATE 7-27-81

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BRIDGE REPAIR
MUS-60-1766
PARTS 4, & 5

ITEM 622 - PORTABLE CONCRETE BARRIER, 32"

THE CONTRACTOR SHALL INSTALL THE BARRIER AS DETAILED ON STD. DWG. MC-9.2 THE QUANTITY SHALL ALSO INCLUDE REMOVING AND REUSING THE BARRIER. AFTER THE PROJECT HAS BEEN COMPLETED THE BARRIER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED BY HIM. CONNECTIONS OF THE PARAPETS SHALL BE DONE BY USING 1 1/4" DIAMETER HIGH STRENGTH BOLTS. SUPPLEMENTING 622.08 THE METHOD OF MEASUREMENT FOR PORTABLE CONCRETE BARRIERS SHALL INCLUDE THE TOTAL OF EACH INDIVIDUAL PLACEMENT OF WHEATHER THE SAME SPECIFIC SECTION OF PORTABLE CONCRETE BARRIER COULD BE RE-USED AGAIN ON THE PROJECT.

FLAGGERS SHALL BE UTILIZED FOR PROTECTION OF VEHICULAR TRAFFIC UNTIL THE MOVEMENT OF THE BARRIERS IS COMPLETE AND TRAFFIC IS MAINTAINED. PAYMENT FOR BOLTS, NUTS, WASHERS, LABOR, MATERIALS AND INCIDENTALS SHALL BE INCLUDED IN ITEM 622 PORTABLE CONCRETE BARRIER, 32". YELLOW BI-DIRECTIONAL BARRIER REFLECTORS SHALL BE MOUNTED ON THE TRAFFIC SIDE OF ALL PORTABLE CONCRETE BARRIERS AND WILL BE 26" ABOVE THE EXISTING PAVEMENT. THE REFLECTORS SHALL BE SPACED AT 10 FEET ON THE TAPERS AND AT 50 TO 60 FEET THROUGH THE WORK ZONES.

ITEM 622 - PORTABLE CONCRETE BARRIER, 32" BRIDGE MOUNTED

THE CONTRACTOR SHALL INSTALL THE BARRIER AS DETAILED ON STD. DWG. PCB-91 THE QUANTITY SHALL ALSO INCLUDE REMOVING AND REUSING THE BARRIER. AFTER THE PROJECT HAS BEEN COMPLETED THE BARRIER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED BY HIM. ANCHORING OF PORTABLE CONCRETE BARRIER LOCATED ON THE BRIDGE SHALL NOT BE REQUIRED. CONNECTIONS OF THE PARAPETS SHALL BE DONE BY USING 1 1/4" DIAMETER HIGH STRENGTH BOLTS. SUPPLEMENTING 622.08 THE METHOD OF MEASUREMENT FOR PORTABLE CONCRETE BARRIERS SHALL INCLUDE THE TOTAL OF EACH INDIVIDUAL PLACEMENT OF WHEATHER THE SAME SPECIFIC SECTION OF PORTABLE CONCRETE BARRIER COULD BE RE-USED AGAIN ON THE PROJECT.

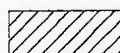
FLAGGERS SHALL BE UTILIZED FOR PROTECTION OF VEHICULAR TRAFFIC UNTIL THE MOVEMENT OF THE BARRIERS IS COMPLETE AND TRAFFIC IS MAINTAINED. PAYMENT FOR BOLTS, NUTS, WASHERS, LABOR, MATERIALS AND INCIDENTALS SHALL BE INCLUDED IN ITEM 622 PORTABLE CONCRETE BARRIER, 32" BRIDGE MOUNTED. YELLOW BI-DIRECTIONAL BARRIER REFLECTORS SHALL BE MOUNTED ON THE TRAFFIC SIDE OF ALL PORTABLE CONCRETE BARRIERS AND WILL BE 26" ABOVE THE EXISTING PAVEMENT. THE REFLECTORS SHALL BE SPACED AT 10 FEET ON THE TAPERS AND AT 50 TO 60 FEET THROUGH THE WORK ZONES.

BRIDGE DECK SURFACE PREPARATION:

THE PROCEDURE WHICH MUST BE FOLLOWED WHEN INSTALLING ALL PORTABLE PRECAST CONCRETE BARRIERS, ON OHIO BRIDGE DECKS, ARE GIVEN BELOW.

- THE BRIDGE DECK SURFACE AREA ON WHICH THE PRECAST CONCRETE BARRIERS WILL REST SHALL BE CLEARED OF ALL LOOSE SAND, GRAVEL, DIRT AND DEBRIS.
- ANY IRREGULARITIES IN THE BRIDGE DECK AREA, UNLESS JUDGED BY THE ENGINEER TO BE INCONSEQUENTIAL, SHALL BE LEVELED WITH GROUT AND/OR ASPHALT.
- ASPHALT ROLL ROOFING SHALL BE PLACED ON THOSE BRIDGE DECK AREAS AS JUDGED BY THE ENGINEER, TO HAVE A SURFACE ROUGHNESS WHICH WOULD INHIBIT FRICTION CONTACT BETWEEN BARRIER SEGMENTS AND THE DECK.

LIMIT THE SLACK IN JOINTS BETWEEN SEGMENTS TO A MAXIMUM OF 3 DEGREES BY SHIMMING AND/OR GROUTING THE JOINT. THE ABOVE WORK SHALL BE INCLUDED FOR PAYMENT IN ITEM 622 PORTABLE CONCRETE BARRIER, 32" BRIDGE MOUNTED.



AREA TO BE REMOVED, EXCEPT ANY RE-STEEL WHICH SHALL BE PRESERVED IN PLACE. ALL LOOSE RUST ON THE RE-STEEL SHALL BE REMOVED BY WIRE BRUSH.

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

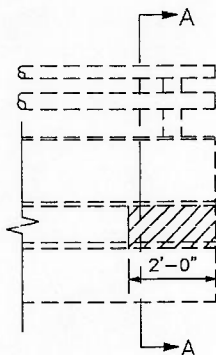
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BY D.D.H.
DATE 2-12-81
CHKD.
BY J.S.D.
DATE 2-26-81

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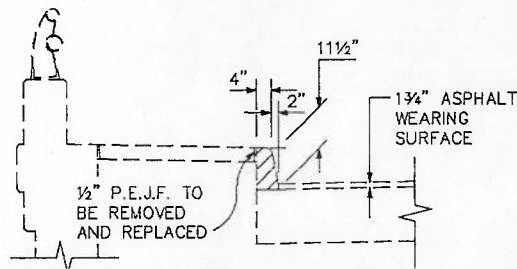
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BRIDGE REPAIR
MUS-60-1766
PART 4

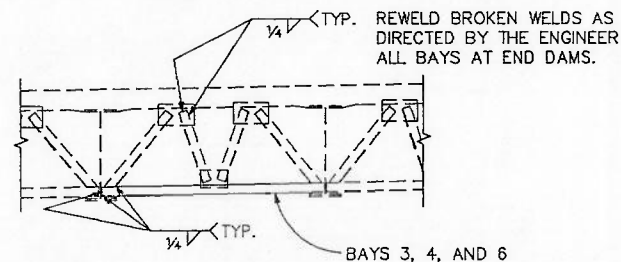


EXISTING ELEVATION
OF CURB REPAIR
(REAR ABUTMENT, LEFT SIDE)

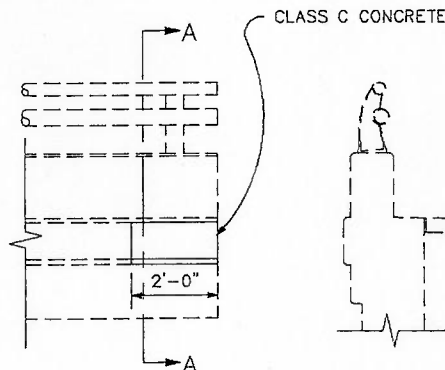


EXISTING SECTION A-A

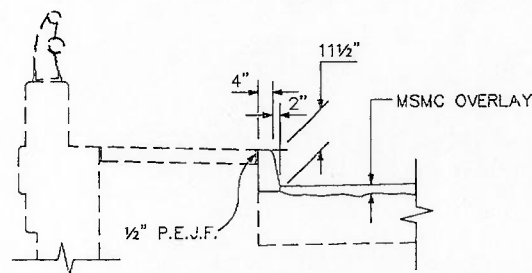
NOTE: ALL REPLACEMENT STEEL SHALL BE A588 HIGH-STRENGTH LOW ALLOY WEATHERING STEEL.



ITEM 513 STRUCTURAL STEEL, MISC.: REPLACEMENT OF DETERIORATED END CROSS FRAMES, AS PER PLAN. ALL END CROSS FRAME WELDS SHALL BE INSPECTED BY THE PROJECT ENGINEER. ALL DETERIORATED WELDS SHALL BE REMOVED AND REWELDED AS PER THE TYPICAL SHOWN ABOVE. THE FORWARD END CROSS FRAMES IN BAYS 3, 4 AND 6 SHALL INCLUDE REMOVING THE DETERIORATED ANGLE AND ITS WELDS, THE 4x4x3/16 ANGLES, AND WELDING THEM IN PLACE AS DETAILED ABOVE. PAYMENT FOR ALL MATERIALS, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN ITEM 513 STRUCTURAL STEEL, REPLACEMENT OF DETERIORATED END CROSS FRAMES, AS PER PLAN. PAINTING TO BE INCLUDED FOR PAYMENT WITH ITEM SPECIAL FIELD PAINTING OF EXISTING STEEL, USING EPOXY AND URETHANE (EEU), AS PER PLAN.



PROPOSED ELEVATION
OF CURB REPAIR
(REAR ABUTMENT, LEFT SIDE)



PROPOSED SECTION A-A

NEW PIN AND PLATE

DESCRIPTION	QUANTITY	UNIT
4 1/2" Ø RETAINER NUT	28	EACH
GREASE FITTINGS	28	EACH

THE ABOVE STRUCTURAL STEEL TO BE INCLUDED FOR PAYMENT PER THE LUMP SUM BID FOR ITEM 513 STRUCTURAL STEEL, MISC.: PIN AND HANGER MAINTENANCE AND INSPECTION

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

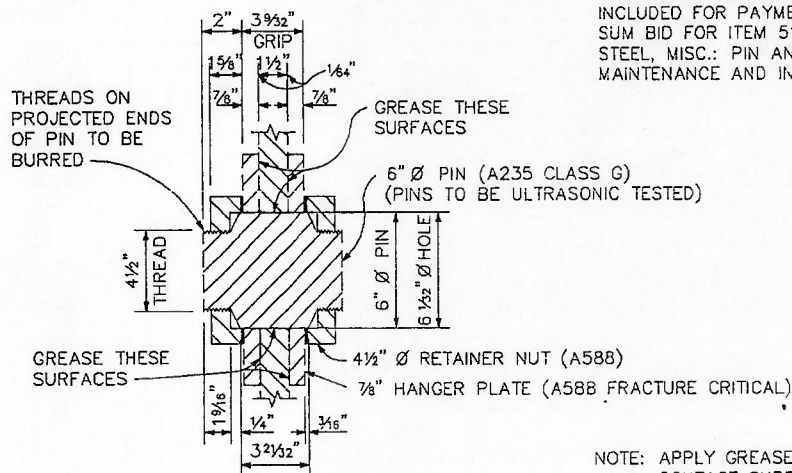
CALC.
BY D.J.H.
DATE 2-13-92
CHKD.
BY S.S.D.
DATE 2-17-92

PLAN 123

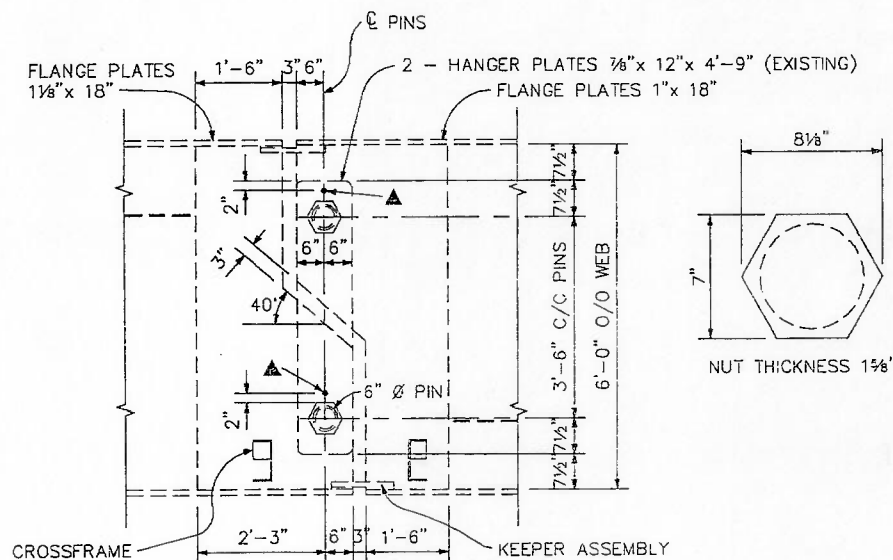
OHIO
FHWA
REGION 5

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BRIDGE REPAIR
MUS-60-1766
PART 4



NOTE: APPLY GREASE TO ALL CONTACT SURFACES.



▲ DRILL AND TAP EXISTING HANGER PLATES IN THESE LOCATIONS AND INSTALL STANDARD GREASE FITTINGS.

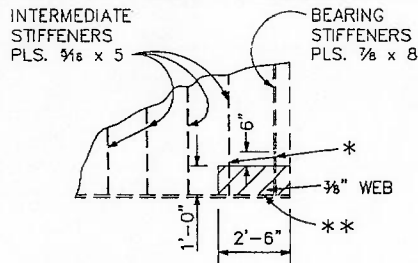
ITEM 513 STRUCTURAL STEEL, MISC.: PIN AND HANGER MAINTENANCE AND INSPECTION

THE INTENT OF THIS ITEM IS TO DISMANTLE PINNED CONNECTIONS (ONE AT A TIME), SANDBLAST TO REMOVE ALL RUST, ALLOW INSPECTION BY DISTRICT BRIDGE ENGINEER, PAINT ALL CLEANED SURFACES, PACK WITH GREASE AND REASSEMBLE WITH NEW RETAINER NUTS. ALL 7 (SEVEN) CONNECTIONS SHALL BE WORKED ON. THE WORK WILL REQUIRE TEMPORARY SUPPORT OF THE APPROPRIATE BEAMS. THE TEMPORARY SUPPORT SYSTEM SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED FOR APPROVAL AS A PART OF THE CONTRACTOR'S BID. DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED WITH IDENTIFICATION SHOWING THE ENGINEER'S SIGNATURE AND REGISTRATION NUMBER. ALL TEMPORARY SUPPORTS SHALL BE ACCOMPLISHED FROM BELOW THE BRIDGE. TEMPORARY SUPPORTS MAY BE PROVIDED BY BOLTING CANTILEVER BEAM SECTIONS TO THE BOTTOM FLANGES OF THE EXISTING CANTILEVER BEAM SECTIONS TO SUPPORT THE SUSPENDED BEAMS OR BY OTHER METHODS AS PROPOSED BY THE CONTRACTOR AND SUBJECT TO THE APPROVAL OF THE OHIO DEPARTMENT OF TRANSPORTATION BRIDGE BUREAU. IN NO CASE WILL WELDING BE ALLOWED ON ANY EXISTING STEEL. ANY NECESSARY HOLES FOR BOLTING SHALL BE APPROVED BY THE BRIDGE BUREAU PRIOR TO DRILLING. HOLES MAY BE LEFT AS-IS AFTER FALSEWORK REMOVAL.

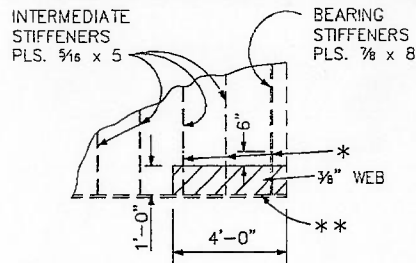
BI-DIRECTIONAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

A PROPOSED WORK SCHEDULE MAY BE AS FOLLOWS:

1. CONTACT DISTRICT BRIDGE ENGINEER 10 (TEN) WORKING DAYS IN ADVANCE OF STARTING WORK SO THAT INSPECTION AND INVESTIGATION OF PINS AND HANGERS CAN BE MADE. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND SAFE ACCESS FOR THE BRIDGE ENGINEER.
2. SET UP TRAFFIC CONTROL IN ACCORDANCE WITH OMUTCD.
3. ERECT NECESSARY TEMPORARY FALSEWORK.
4. THREADS ON PINS TO BE FILED AND REALIGNED (BEFORE AND/OR AFTER NUT REMOVAL)
5. REMOVE RETAINER NUT, HANGER PLATE AND PIN.
6. SANDBLAST ALL STEEL SURFACES (2 FEET ON BOTH SIDES OF THE HANGER CENTERLINE, AND 1'-0" ABOVE AND BELOW THE HANGER PLATE AND OTHER AREAS WHERE EXISTING PAINT IS DAMAGED DURING THIS WORK) TO NEAR-WHITE METAL (SA 2 1/2).
7. INSTALL GREASE FITTINGS IN HANGER PLATES.
8. PAINTING SHALL BE AS PER FIELD PAINTING OF EXISTING STEEL, USING EPOXY AND URETHANE (EEU), AS PER PLAN NOTE ON SHEET 2 / 11
9. GENEROUSLY APPLY AUTOMOTIVE TYPE MULTI-PURPOSE GREASE TO ALL FAYING (CONTACT) SURFACES.
10. REASSEMBLE USING NEW RETAINER NUTS.
11. THREADS ON PINS TO BE BURRED OR TACK WELDED.
12. REPEAT PROCESS AT OTHER SPECIFIED LOCATIONS.



EXISTING FWD. END BEAM 4



EXISTING FWD. END BEAM 7

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

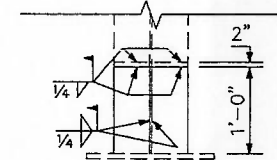
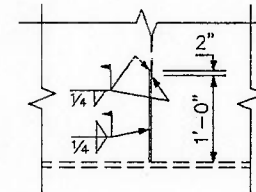
CALC.
BY D.D.H.
DATE 2-13-74
C'D.
BY R.S.D.
DATE 2-7-74

PLAN 123

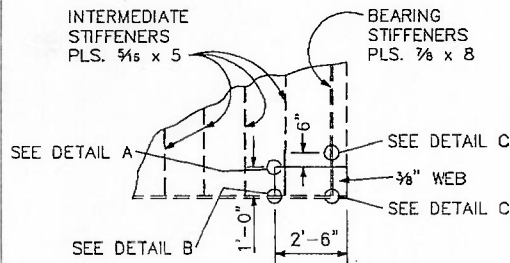
OHIO
FHWA
REGION 5

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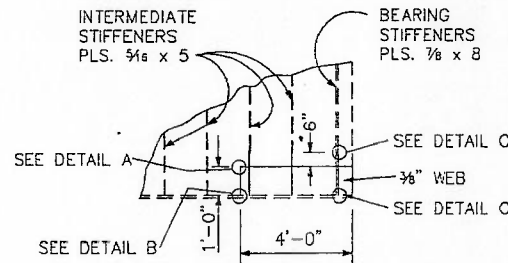
BRIDGE REPAIR
MUS-60-1766
PART 5



INTERMEDIATE STIFFENER REPLACEMENT DETAILS



PROPOSED FWD. END BEAM 4



PROPOSED FWD. END BEAM 7

NOTES:

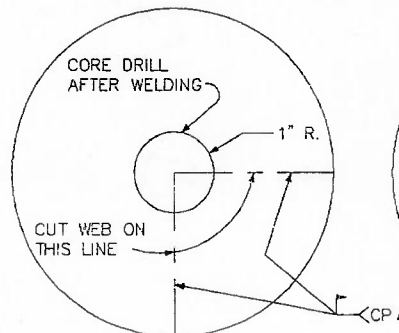
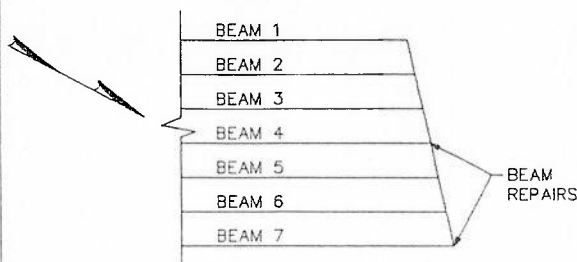
END CROSSFRAMES TO BE CUT AT WEBS AND WELDED TO NEW WEB.

* STIFFENERS TO BE CUT 6" ABOVE WEB REPLACEMENT AND REPLACED WITH NEW PLATE AFTER NEW WEB IS IN PLACE.

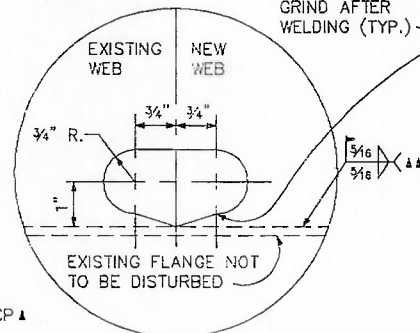
** REMOVE WEB AND GRIND SMOOTH TOP OF FLANGE BEFORE WELDING NEW WEB SECTION

▲ PROVIDE RADIOGRAPHIC INSPECTION

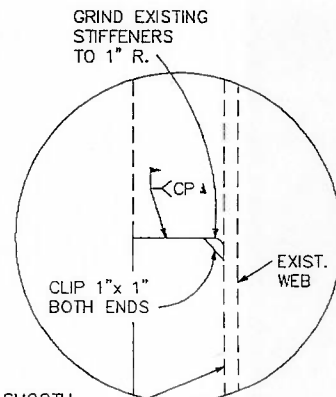
▲▲ PROVIDE MAGNETIC PARTICLE INSPECTION
PAINT REPAIRED BEAMS



DETAIL A



DETAIL B



DETAIL C

ITEM SPECIAL — STRUCTURE, MISC.: DRAIN TROUGH CLEANING

THE CONTRACTOR SHALL REMOVE DEBRIS FROM THE DRAIN TROUGH USING POTABLE WATER HAVING A NOZZLE PRESSURE OF AT LEAST 1000 P.S.I. AND A DELIVERY RATE OF NOT LESS THAN 4 GALLONS PER MINUTE. THE EQUIPMENT SHALL ALSO BE EQUIPPED WITH GAGES TO VERIFY THE ABOVE.

AFTER CLEANING THE DRAIN TROUGH, THE BEAMS, PLATES AND WEARING SURFACE SHALL BE RINSED FREE OF ALL OVERSPRAY. ALL SURFACES SHALL BE APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID TRAFFIC HAZARDS WITH VEHICLES, TRAINS, BOATS, AND PEDESTRIANS TRAVELING UNDER THE BRIDGE. ANY DAMAGES TO VEHICLES OR PEDESTRIANS SHALL BE THE CONTRACTORS RESPONSIBILITY. ALL DEBRIS SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO MEET THE APPLICABLE SAFETY REQUIREMENTS OF THE OHIO INDUSTRIAL COMMISSION. THESE PRECAUTIONS SHALL INCLUDE THE USE OF RESPIRATORS, EYE AND SKIN PROTECTION AS REQUIRED. THE ABOVE WORK INCLUDING LABOR, TOOLS, MATERIALS, AND INCIDENTALS SHALL BE INCLUDED IN THE LUMP SUM PAYMENT FOR ITEM SPECIAL — STRUCTURE, MISC.: DRAIN TROUGH CLEANING.

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66
MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

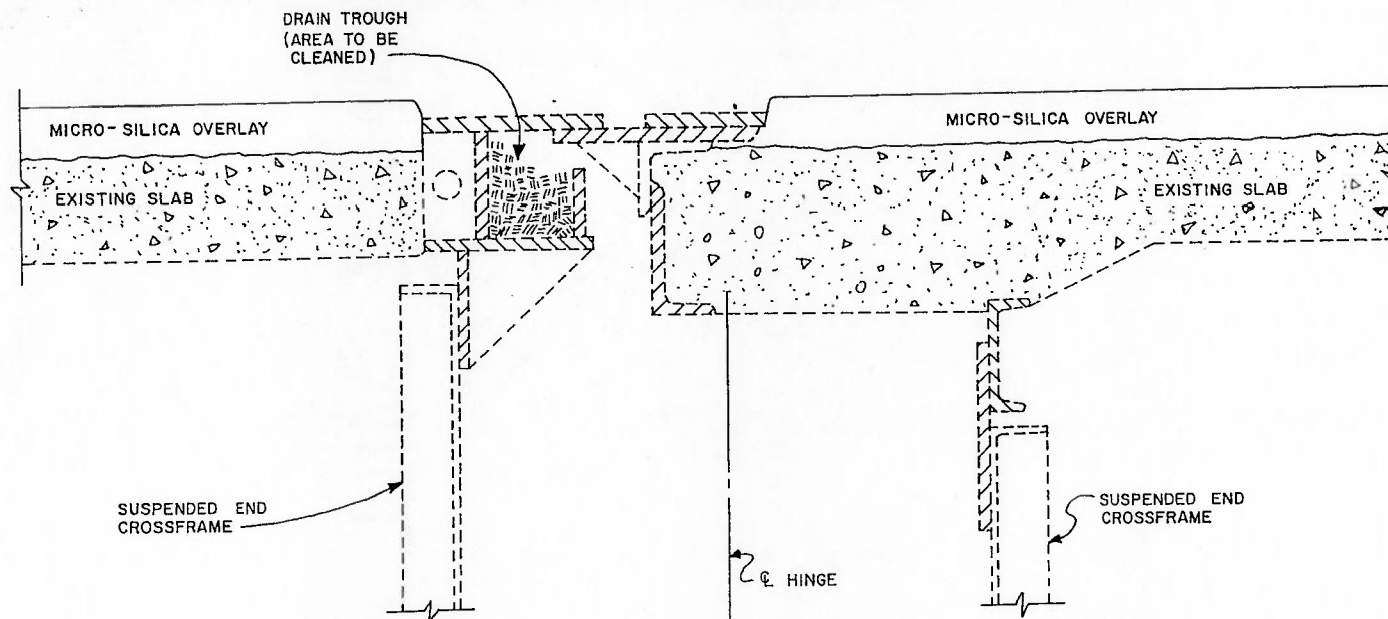
CALC. P.D.W.
BY: J.S.S.
DATE: 10/1/77
BY: J.S.S.
DATE: 10/1/77

PLAN 123

OHIO
FHWY
REGION 5

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BRIDGE REPAIR
MUS-60-1766
PART 4



MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS-CO. GARAGE
OAK PARK OUTPOST

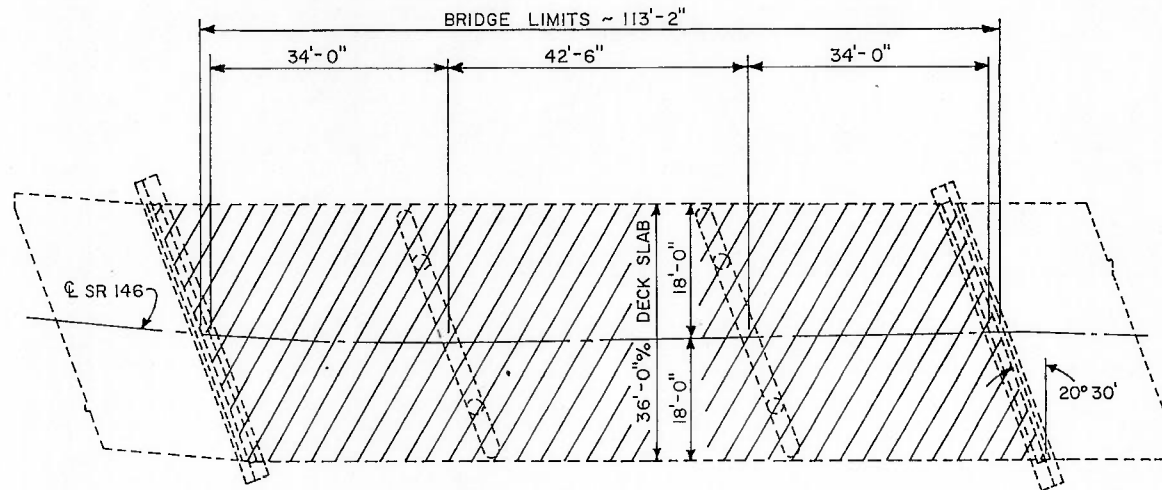
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BY D.O.H.
DATE 7-12-92
CHKD.
BY P.S.D.
DATE 7-22-92

PLAN 123

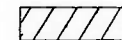
OHIO
FHWA
REGION 5

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BRIDGE REPAIR
MUS-146-1344
PART 7



GENERAL PLAN



AREA TO BE SOUNDED AND
PATCHED AS PER ITEM SPECIAL
PATCHING CONCRETE BRIDGE
DECKS, TYPE B.

GENERAL NOTES AND DETAILS FOR POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

ITEM SPECIAL - POLYMER-MODIFIED ASPHALT EXPANSION JOINT SYSTEM

THIS ITEM WILL BE USED TO SEAL THE EXPANSION/CONTRACTION JOINTS AS PER THESE DETAILS AND THE MANUFACTURER'S REQUIREMENTS USING A POLYMER-MODIFIED ASPHALT SYSTEM. THE PRIME CONTRACTOR WILL OBTAIN THE SERVICES OF ONE OF THE FOLLOWING LICENSED APPLICATORS WHO WILL FURNISH AND INSTALL THE NEW BRIDGE EXPANSION JOINT SYSTEM AFTER ALL PAVING ON THE AFFECTED BRIDGE(S) HAS BEEN COMPLETED.

PAVETECH ENGINEERED SYSTEMS INC. 2575 U.S. RT. 22 & 3, OFFICE 1
MAINEVILLE, OH 45039
TEL: 1-800-258-0162

LINEAR DYNAMICS, INC. 400 LAWDEX PLAZA
PARSIPPANY, NJ 07054
TEL: (201) 884-0300

MATERIALS:

BRIDGING PLATE:
MILD STEEL OR ALUMINUM 1/8" OR 1/4" THICK PLATE, 8" WIDE

BINDER:

TYPE: POLYMER MODIFIED ASPHALT
SOFTENING POINT: 180 DEGREES F. MIN.
FLOW: 3 MM. MAX. AT 140 DEGREES F.
PENETRATION: 9 MM. MAX. AT 77 DEGREES F.
1 MM. MAX. AT 0 DEGREES F.
ASTM D 3407
DUCTILITY: 40 CM. MIN. ASTM D 113
RESILIENCE: 60% MIN. AT 77 DEGREES F.
TENSILE ADHESION: 700% MIN.
SPECIFIC GRAVITY: 1.10 ± 0.05
POURING TEMP: 350 - 390 DEGREES F.

AGGREGATE:

TYPE: CRUSHED, DOUBLE WASHED, AND DRIED GRANITE OR BASALT
GRADATION: THE GRADATION OF THE AGGREGATE VARIES BY MANUFACTURER AND WILL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM BEING USED ON THIS PROJECT.

BACKER ROD:

PROPERTY	NOMINAL VALUE	TEST METHOD
DENSITY	2.0 LBS/CU FT	ASTM D 1622
TENSILE STRENGTH	25 PSI	ASTM D 1623
WATER ABSORPTION BY VOLUME	0.5%	ASTM C 509
COMPRESSION DEFLECTION AT 8 PSI	25%	ASTM D 1621
TEMPERATURE RESISTANCE	-45 TO +450 DEGREES F	

INSTALLATION PROCEDURES:

SAWING AND SURFACE PREPARATION:

AFTER ALL PAVING OPERATIONS ARE COMPLETE, THE OVERLAY IS TO BE TRANSVERSELY SAW CUT FULL DEPTH NO LESS THAN TWO INCHES DEEP (20" CENTERED OVER JOINT OPENING, UNLESS OTHERWISE NOTED). REMOVE ALL MATERIAL, INCLUDING WATER-PROOFING MATERIAL, BETWEEN SAW CUTS. THOROUGHLY CLEAN AND DRY EXPOSED CONCRETE, STEEL, AND CUT SURFACES USING COMPRESSED AIR AND A HOT COMPRESSED AIR (HCA) LANCE. THE LANCE MUST PRODUCE A FLAME RETARDED AIR STREAM TEMPERATURE OF 3000 DEGREES F. AT A VELOCITY OF 3,000 FEET PER SECOND WITH 15 PSIG CHAMBER PRESSURE. IF THERE IS AN INTERRUPTION DUE TO WEATHER OR OTHER CAUSES, THE OPERATION WILL BE REPEATED WITH THE HCA LANCE IMMEDIATELY BEFORE THE TANKING OPERATION. ALSO, 6 INCHES OF THE ROAD SURFACE ON EITHER SIDE OF THE JOINT WILL BE DRIED SO THAT A SUITABLE SURFACE FOR BITUMEN ADHESION IS OBTAINED.

SEALING OF EXPANSION JOINT: (PRE-STRESSED BOX OR CONCRETE SLAB)

THE EXPANSION JOINT GAP IS TO BE SEALED AND A BRIDGING PLATE CENTERED ALONG IT. A VERY NARROW GAP WILL BE SEALED BY POURING HOT BINDER INTO THE GAP. GAPS OF 1/8" OR MORE WILL FIRST BE FILLED WITH AN APPROPRIATELY SIZED BACKER ROD. THE BACKER ROD WILL BE INSTALLED SO THAT IT IS BETWEEN 1/8" AND 1-1/8" BELOW THE TOP OF THE EXISTING GAP. THE GAP WILL THEN BE FILLED WITH BINDER. ADDITIONAL BINDER WILL BE SPREAD OVER THE SURFACE AREA WHERE THE METAL PLATE WILL BE PLACED.

BOND BREAKER:

CENTER THE BRIDGING PLATE OVER THE EXISTING JOINT AND BED INTO THE HOT BINDER. BUTT JOINT THE BRIDGING PLATES TO ACCOMMODATE THE ENTIRE JOINT LENGTH. SPIKE HOLES WILL BE DRILLED AT 1 FOOT INTERVALS ALONG THE LONGITUDINAL CENTERLINE OF THE PLATES. SECURE BRIDGING PLATE WITH NAILS OR SPIKES. SEAL BUTT JOINTS WITH HOT BINDER AND ALLOW TO COOL BEFORE TANKING THE JOINT.

TANKING:

SEAL ALL PREPARED, EXPOSED SURFACES OF THE JOINT WITH BINDER. POUR THE HOT BINDER OVER THE FLOOR AREA OF THE JOINT AND SPREAD TO COAT ALL EXPOSED SURFACES. THE BINDER WILL BE A MINIMUM OF 1/32" THICK ON THE BOTTOM OF THE JOINT CAVITY, WITH POOLS OF GREATER THICKNESS WHERE SURFACE IRREGULARITIES EXIST. THE BINDER APPLICATION TEMPERATURE WILL BE BETWEEN 350 AND 390 DEGREES F. THE BINDER WILL NOT BE ALLOWED TO BE HEATED ABOVE 410 DEGREES F. NOR ALLOWED TO EXCEED 390 DEGREES F. FOR MORE THAN 1 HOUR.

BUILD-UP OF JOINT LAYERS:

AGGREGATE PREPARATION:
HEAT THE AGGREGATE TO A TEMPERATURE OF 275 TO 325 DEGREES F., WITH A SUITABLE ROTATING DRUM WITH ATTACHED HEAT SOURCE OR A HOT COMPRESSED AIR LANCE, TO REMOVE ALL DUST AND MOISTURE.

AGGREGATE PROPORTION AND LAYER THICKNESS:

MIX THE AGGREGATE WITH THE BINDER SUCH THAT THE MINIMUM AGGREGATE CONTENT BY WEIGHT WILL BE 68%. THE HEATED AGGREGATE AND BINDER WILL BE COMBINED IN LAYERS NOT LESS THAN 3/4 OF AN INCH NOR EXCEEDING 2 INCHES. THE THICKNESS OF EACH LAYER CAN BE VARRIED, WITHIN THESE LIMITS, TO ACHIEVE THE REQUIRED JOINT THICKNESS. THE OBJECTIVE IS TO COAT EACH STONE AND FILL THE VOIDS WHILE AVOIDING AN EXCESS OF BINDER. THIS WILL ACHIEVE THE MAXIMUM CONTENT OF STONE CONSISTENT WITH ALL STONES BEING COATED WITH BINDER AND A MAXIMUM VOID CONTENT OF 2%. RAKE THE MIXTURE TO MIX AND LEVEL.

AGGREGATE PREPARATION:

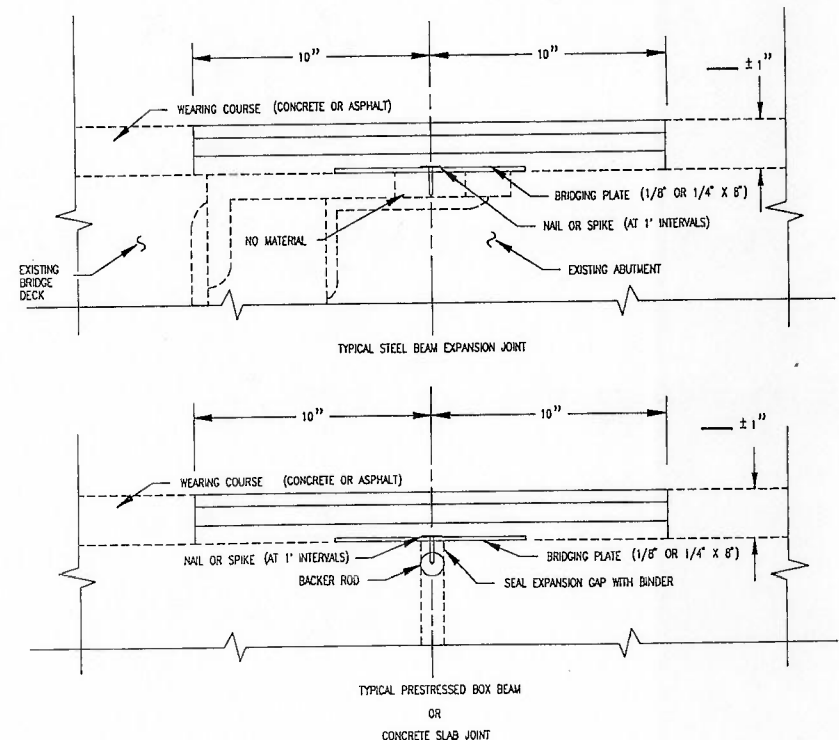
THE TOP LAYER THICKNESS WILL VARY BETWEEN 1/2 INCH AND ONE (1) INCH. IN PREPARING THE TOP LAYER, THE RATIO OF AGGREGATE TO BINDER WILL BE APPROXIMATELY 6:1 BY WEIGHT. THIS RATIO IS NOT ABSOLUTELY VITAL SINCE ADDITIONAL BINDER WILL INFILTRATE THE TOP LAYER FROM BOTH BELOW AND ABOVE. OVERFILL THE TOP LAYER AND COMPACT TO THE LEVEL OF THE ADJACENT SURFACES USING A ROLLER OR VIBRATORY PLATE COMPACTOR. IMMEDIATELY AFTER COMPLETION OF THE COMPACTION, POUR SUFFICIENT BINDER OVER THE JOINT TO FILL THE SURFACE VOIDS AND COAT THE SURFACE STONE. DUST THE FINISHED JOINT WITH A FINE, DRY AGGREGATE TO PREVENT TACKINESS.

MAINTENANCE OF TRAFFIC:

IF NECESSARY TO FACILITATE TRAFFIC MAINTENANCE, THE JOINT WILL BE INSTALLED IN TWO (2) HALF-WIDTH PHASES. DURING PHASE 1 APPROXIMATELY HALF OF THE TOTAL JOINT WILL BE INSTALLED. DURING PHASE 2, A MINIMUM OF TWO (2) INCHES OF THE PHASE 1 JOINT WILL BE REMOVED, AT OR NEAR THE CENTERLINE, WITH THE REMAINDER OF THE JOINT INSTALLED. IN ALL CASES, OPERATIONS WILL BE SCHEDULED SO THAT ALL LANES CAN BE OPEN TO TRAFFIC DURING ALL NON-WORKING HOURS.

PAYMENT:

PAYMENT FOR ALL THE ABOVE WILL BE AT THE UNIT PRICE BID PER LINEAR FOOT OF SEALED JOINT IN PLACE FOR ITEM SPECIAL 516 31300, POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM (____ INCHES THICK). THIS WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.



GENERAL SUMMARY

MUS-22-12.28 MUS-146-13.37
MUS-40-10.35 MUS-666-0.00
MUS-60-17.14 MUS. CO. GARAGE
MUS-60DA-N-0.66 OAK PARK OUTPOST

CALC. BY _____	PLAN NO. _____
DATE _____	
CHKD. BY _____	
DATE _____	

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ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	STP PART 7	PART 8	PART 9	PART 10	PART 11	PARTS 1-8 NHS AND STATE	PART 7 STP AND STATE	PARTS 8-11 100% STATE	ITEM	ITEM EXT. NO.	GRAND TOTAL PARTS 1-11 FEDERAL AND STATE	UNIT	DESCRIPTION
202				1								1			202	11300	1	CU.YD.	PORTION OF STRUCTURE REMOVED, ABUTMENT
202	188			2976	2068							5232			202	23500	5232	SQ.YD.	WEARING COURSE REMOVED
202	64	899										963			202	54101	963	EACH	RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN
202		LUMP										LUMP			202	00200	LUMP	LUMP	RAILROAD CROSSING REMOVED
203		561										561			203	12000	561	CU.YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
SPECIAL		15					1	4		3		15	1	7	SPECIAL	20363000	23	HOURL	GRADER RENTAL
SPECIAL		8					1	2		1		8	1	3	SPECIAL	20363500	12	HOURL	LOADER RENTAL
253		253										253			253	02001	253	CU.YD.	PAVEMENT REPAIR, AS PER PLAN
254	1300		1086	2000	70	560	200	505				5016	200	505	254	01600	5721	SQ.YD.	PATCHING PLANED SURFACE
254	26574		22144	40679	1408	11349	4303	10119				102154	4303	10119	254	01000	116576	SQ.YD.	PAVEMENT PLANING, BITUMINOUS
301		561										561			301	10002	561	CU.YD.	BITUMINOUS AGGREGATE BASE, AC-20
407	1350	4766	1121	2073	72	574	307	1283	16	56	102	9956	307	1457	407	10000	11720	GALLON	TACK COAT
408										3834	561			4395	408	10000	4395	GALLON	BITUMINOUS PRIME COAT

GENERAL NOTES

TRAFFIC:

Traffic shall be maintained at all times. The length of restricted traffic zones shall be kept to a minimum consistent with the specification requirements for protection of completed courses.

RAILROAD CROSSINGS:

The new surface course shall be feathered or butt jointed to meet the rail grades as specified.

TACK COAT:

The tack coat operation shall be as determined at a pre-construction conference as per 407.05, and application rates shall not exceed 0.10 gal. per sq. yd. In addition to the requirements of 407.05 the tack coat shall be applied immediately ahead of the paving operation or as otherwise determined by the Project Engineer.

INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:

This material shall be placed in a separate operation where and as directed by the Engineer.

ALIGNMENT AND PROFILE:

The work proposed by this project is for the resurfacing of the existing pavement. The alignment of the existing pavement will not be changed, and the profile of the proposed surface will be similar to that of the existing pavement except that it will be raised an amount equal to the thickness of the resurfacing course or courses specified in these plans.

Spreading equipment shall be capable of having an automatic profile control device added to be used when directed by the Engineer. The minimum length of the ski for this device shall be 30'.

CONTROL OF ONE WAY TRAFFIC:

In addition to the requirements of the Ohio Manual of Uniform Traffic Control Devices and Material Specifications the following requirements shall apply. Communications between flaggers shall be by two-way radio during the paving operations. Payment for the above shall be included in Item 614, Maintaining Traffic.

COVER AGGREGATE:

Cover aggregate shall conform to 703.06.

BRIDGES:

The proposed depth of asphalt resurfacing shall be altered to match the proposed depth of the treatment on the structures. The resurfacing thickness shall be adjusted as required at the approximate rate of 25 ft. per inch of difference in thickness unless otherwise directed by the Engineer.

GENERAL SUMMARY

MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS. CD. GARAGE
DAK PARK OUTPOST

CALC. BY	
DATE	
CHECKED BY	
DATE	
PLAN NO.	

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ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8	PART 9	PART 10	PART 11	PARTS 1-6 NHS AND STATE	PART 7 STP AND STATE	PARTS 8-11 100% STATE	ITEM	ITEM EXT. NO.	GRAND TOTAL PART 1-11 FEDERAL AND STATE	UNIT	DESCRIPTION
SPECIAL												18			SPECIAL	12300	18	SQ.YD.	PATCHING CONCRETE BRIDGE DECKS, TYPE B
448								722	15	444	167			1348	448	15000	1348	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, AC-20
448	27	2808	680	40	5	10	87	127		10		3570	87	137	448	14000	3794	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, AC-20
448	1112	3562	622	1672	153	474	245	966	11	318	119	7595	245	1414	448	16000	9254	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
448	50	410	83					45				543		45	448	16004	588	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20 (DRIVEWAY)
511				1								1			511	45700	1	CU.YD.	CLASS C CONCRETE (ABUTMENT)
512				300								300			512	55800	300	SQ.YD.	TYPE D WATERPROOFING
513					LUMP							LUMP			513	16600	LUMP	LUMP	STRUCTURAL STEEL, MISC: BEAM REPAIR
513				7								7			513	16800	7	EACH	STRUCTURAL STEEL, MISC: PIN AND HANGER MAINTENANCE AND INSPECTION
513					264							264			513	15901	264	POUND	STRUCTURAL STEEL, REPLACEMENT OF DETERIORATED END CROSSFRAME, AS PER PLAN
513					LUMP							LUMP			513	19400	LUMP	LUMP	STRUCTURAL STEEL (TEMPORARY SUPPORTS)
SPECIAL				612	58							670			SPECIAL	51425600	670	SQ.FT.	SURFACE PREPARATION (EEU)
SPECIAL				612	58							670			SPECIAL	51425610	670	SQ.FT.	FULL PRIME (EPOXY)
516				2								2			516	13200	2	SQ.FT.	1/2" PREFORMED EXPANSION JOINT FILLER
SPECIAL				612	58							670			SPECIAL	51425616	670	SQ.FT.	COMPLETE COAT FINISH (URETHANE)
SPECIAL							77						77		SPECIAL	51631300	77	LIN.FT.	POLYMER MODIFIED EXPANSION JOINT SYSTEM
SPECIAL				2976	2068							5044			SPECIAL	51922020	5044	SQ.YD.	MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION 3 1/4" THICK
517				23	23							46			517	73501	46	LIN.FT.	RAILING, PIPE, AS PER PLAN, 3 1/2" DIA. REMOVE & REPLACE
SPECIAL				124	87							211			SPECIAL	51922100	211	CU.YD.	MICRO-SILICA MODIFIED CONCRETE OVERLAY (VAR. THICKNESS)
SPECIAL				LUMP	LUMP							LUMP			SPECIAL	51922300	LUMP	LUMP	TEST SLAB
SPECIAL				LUMP								LUMP			SPECIAL	53000200	LUMP	LUMP	STRUCTURE, MISC: DRAIN THROUGH CLEANING

GENERAL SUMMARY

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MUS-22-12.28
MUS-40-10.35
MUS-60-17.14
MUS-60DA-N-0.66

MUS-146-13.37
MUS-666-0.00
MUS. CD. GARAGE
OAK PARK OUTPOST

CALC. BY _____	DATE _____
CHECK BY _____	DATE _____
PLAN NO. _____	

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ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8	PART 9	PART 10	PART 11	PARTS 1-6 NHS AND STATE	PART 7 STP AND STATE	PARTS 8-11 100% STATE	ITEM	ITEM EXT. NO.	GRAND TOTAL PARTS 1-11 FEDERAL AND STATE	UNIT	DESCRIPTION
604	8	1	9				1			4		18	1	4	604	09000	23	EACH	CATCH BASIN ADJUSTED TO GRADE
604	2		8					2				10		2	604	09501	12	EACH	CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN
604	1		1									2			604	20801	2	EACH	INLET RECONSTRUCTED TO GRADE, AS PER PLAN
604	21		26	27		7	6	6				81	6	6	604	34500	93	EACH	MANHOLE ADJUSTED TO GRADE
614				84	60							144			614	13302	144	EACH	BARRIER REFLECTOR, TYPE B2
614															614	11000	LUMP		MAINTAINING TRAFFIC
614	46	48	42	58		18	14	28	4			212	14	32	614	12460	258	EACH	WORK ZONE MARKING SIGNS
614	0.40	1.44		4.16	0.52	0.88		0.08				7.4		0.08	614	20400	7.48	MILE	TEMPORARY LANE LINE, CLASS II
614	2.16	10.92	2.52			0.26	0.56	3.40				15.77	0.56	3.40	614	21400	19.73	MILE	TEMPORARY CENTER LINE, CLASS II
614				0.32	0.23							0.55			614	22300	0.55	MILE	TEMPORARY EDGE LINE, CLASS I, 740.05, TYPE C (YELLOW)
614				0.32	0.23							0.55			614	22300	0.55	MILE	TEMPORARY EDGE LINE, CLASS I, 740.05, TYPE C (WHITE)
617		866	4				20	276		31	37	870	20	344	617	10100	1234	CU.YD.	COMPACTED AGGREGATE, TYPE A
617		8	1				1	3		0.5	0.5	9	1	4	617	25000	14	MGAL.	WATER
619												LUMP		LUMP	619	15000	LUMP	LUMP	FIELD OFFICE, TYPE A
622				284	284							568			622	40020	568	LIN.FT.	PORTABLE CONCRETE BARRIER, 32"
622				1976	1388							3364			622	40040	3364	LIN.FT.	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED
624												LUMP		LUMP	624	10000	LUMP	LUMP	MOBILIZATION
632			456	3106		756	234	234				4318	234	234	632	64900	4786	LIN.FT.	LOOP DETECTOR WIRE, TYPE E
632			166	850		202	36	24				1218	36	24	632	65200	1278	LIN.FT.	LOOP DETECTOR LEAD-IN CABLE
642	1.08	4.83	0.84	0.104		0.224	0.28	1.79				7.12	0.28	1.79	642	00302	9.19	MILE	CENTER LINE, TYPE 2
642		9.66	0.10	4.68		0.70	0.56	3.02				14.58	0.56	3.02	642	00102	18.16	MILE	EDGE LINE, TYPE 2
642				1587	1294							2881			642	30000	2881	LIN.FT.	REMOVAL OF PAVEMENT MARKING (CENTERLINE)
642		0.92		2.34		0.13						3.39			642	00202	3.39	MILE	LANE LINE, TYPE 2
644	360	208	488	977		254	77	229			18	2287	77	247	644	00500	2611	LIN.FT.	STOP LINE
644	1094		1930	3772		1232	288	136				8028	288	136	644	00600	8452	LIN.FT.	CROSSWALK LINE
644	2	2	4	12		3	1	1				23	1	1	644	01400	25	EACH	WORD ON PAVEMENT, 72"
644		3										3			644	01410	3	EACH	WORD ON PAVEMENT, 96"
644	2	11	20	58		18	3	5				109	3	5	644	01300	117	EACH	LANE ARROW

GENERAL SUMMARY

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GENERAL SUMMARY