

MENARDS INC.

OFFSITE IMPROVEMENTS AT S.R. 21/U.S. 62 AND WARMINGTON ROAD

MASSILLON, OHIO

PROJECT DESCRIPTION

ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY OF SR 21/US 62 AND WARMINGTON ROAD SW ADJACENT TO THE MENARDS INC. SITE.

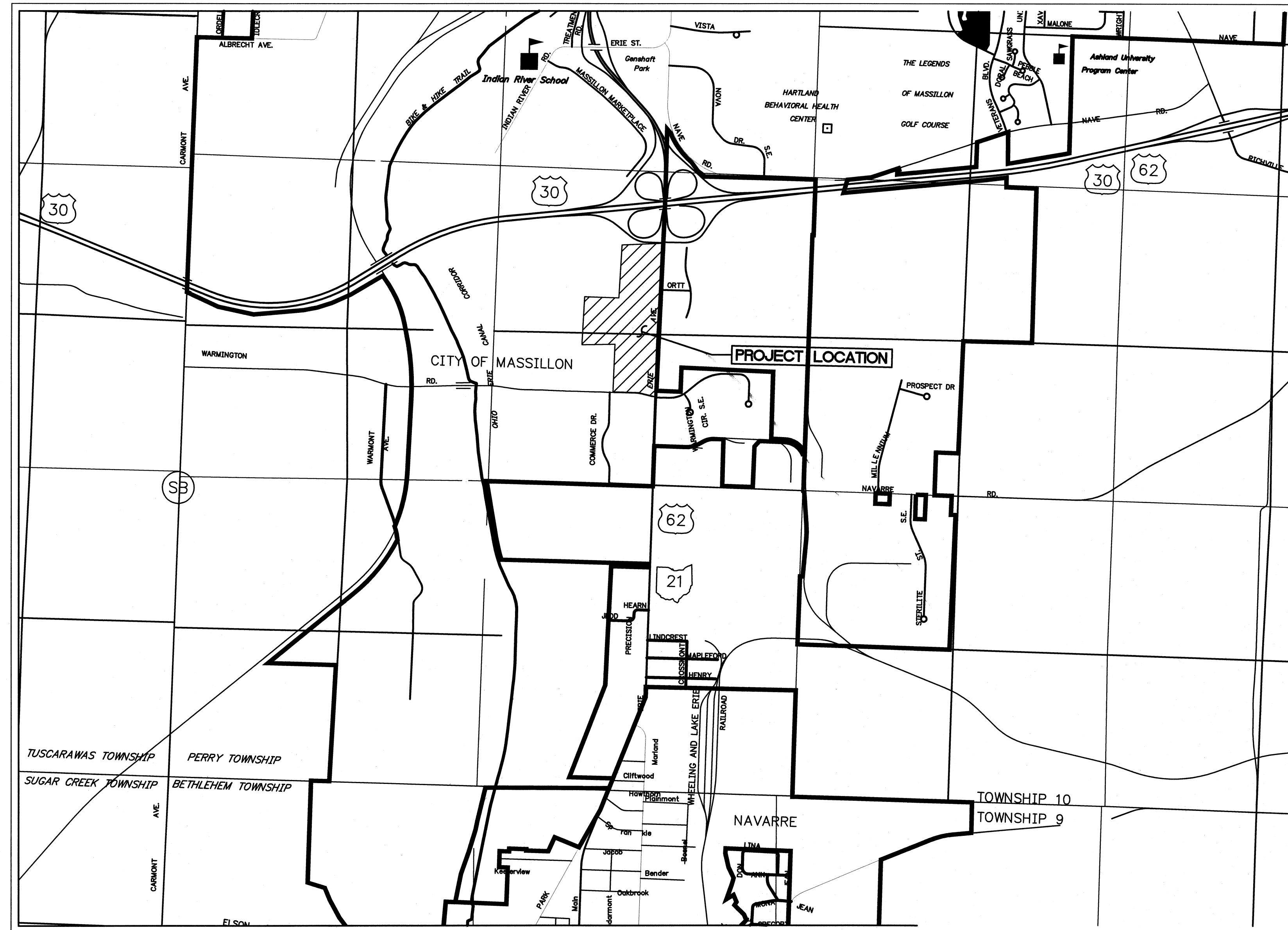
SPECIFICALLY THE INSTALLATION OF THREE DRIVES TO THE MENARDS SITE, INCLUDING ONE SIGNALIZED DRIVE.

INDEX OF SHEETS:

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LEGEND

•	5/8 REBAR W/HINTON CAP(#6270)	ANCHOR
o	FOUND UNLESS OTHERWISE NOTED	SIGN
o	1/2 INCH IRON BAR WITH H&A CAP SET	CATCH BASIN (C.B.)
o	CENTERLINE	MANHOLE (AS LABELED)
o	LOT LINE	TRAFFIC CONTROL BOX
o	R/W RIGHT-OF-WAY	FIRE HYDRANT
()	DENOTES RECORD BEARINGS AND DISTANCES	VALVE (AS LABELED)
---	WATER LINE	MAIL BOX
---	SANITARY SEWER LINE	GUARD POST
---	STORM SEWER LINE	SOIL BORING
---	GAS LINE	MONITORING WELL
---	UNDERGROUND ELECTRIC	CLEAN OUT
---	OVERHEAD ELECTRIC	DOWN SPOUT
---	UNDERGROUND TELEPHONE	EDGE OF PAVEMENT
---	OVERHEAD TELEPHONE	FLOOR DRAIN
---	OVERHEAD ELECTRIC, TELEPHONE & CABLE	FINISH FLOOR ELEVATION
x x	FENCE	YARD DRAIN
o	GAS LINE MARKER	FLAG POLE
o	TELEPHONE LINE MARKER	ROOF DRAIN
o	UTILITY POLE	GUARD RAIL



APPROVALS

Approved by the City of Massillon City Engineer this _____ Day of _____, 20____

KEITH A. DYLEWSKI, P.E.

Notes:

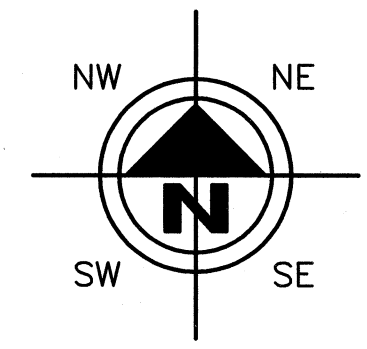
Only approved signed plans by the City Engineer are to be used for Construction.

The Contractor is to refer to the approved site civil plans for the Menards Inc. site.

PLAN PREPARED BY:

Mc COY ASSOCIATES, INC.
CONSULTING ENGINEERS

388 S. MAIN ST., SUITE 401
AKRON, OHIO 44311
PH: (330)564-9100
FAX: (330)564-9101



SCALE
1" = 1/4 MILE

DRAWN BY:	CHECKED BY:
CMK	SDH
DATE:	DATE:
DEC. 2006	DEC. 2006

TITLE SHEET

SEAL



REVISIONS:

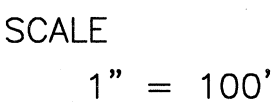
DATE	DESCRIPTION
3/07	DRIVE LOCATION
4/05/07	ODOT COMMENTS
10/07	CITY COMMENTS

FILE NAME:
06240_GTITLE.DWG

ACCOUNT NUMBER
06240

1 / 9

08 50 03



DRAWN BY:
CMK

DATE: DEC. 2006

CHECKED BY:
SDH

DATE: DEC. 2006

OVERALL OFFSITE PLAN

SEAL

REVISIONS:

FILE NAME:	06240_OVERALL PLAN.DWG
ACCOUNT NUMBER	06240

2 / 9

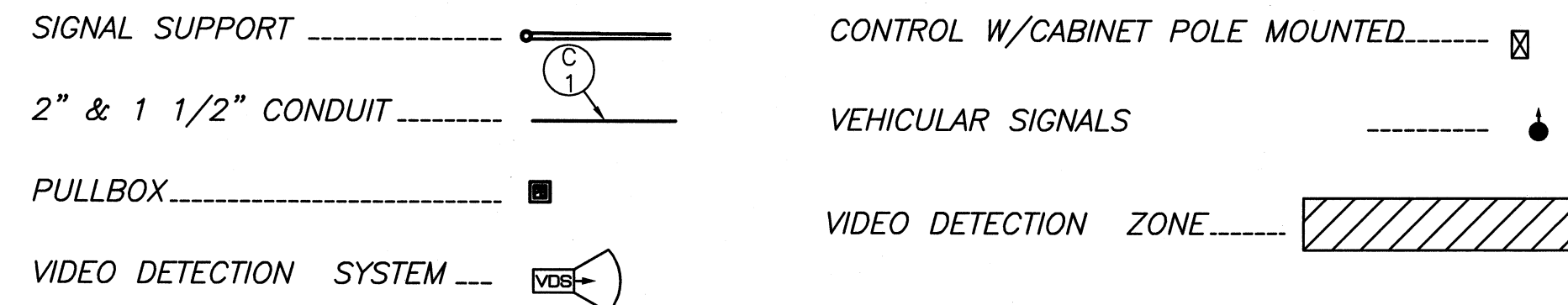
08 SD 03



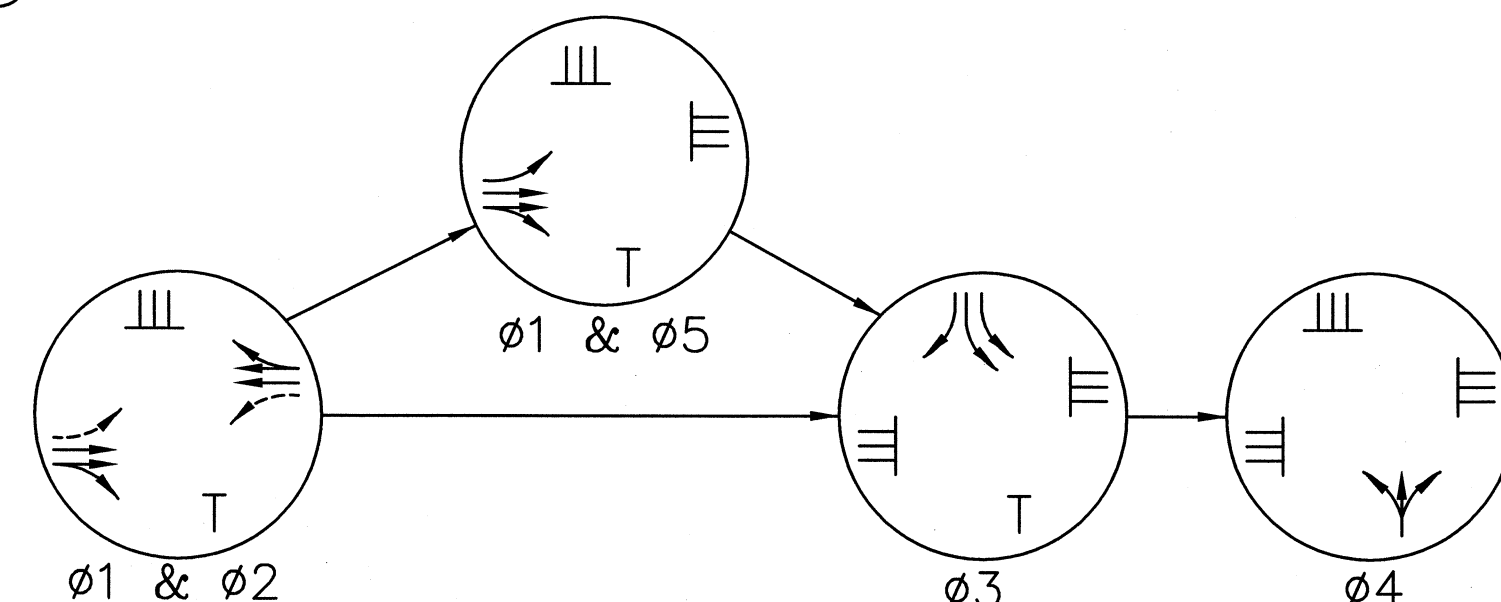
Q WARMINGTON ST. STATIONING BASED ON
100+00.00 AT MONUMENT AT INTERSECTION
OF U.S. 62 AND WARMINGTON ST.

LEGEND

- (S) - ITEM 644 - THERMOPLASTIC 24" STOP LINE (WHITE)
- (C) - ITEM 644 - THERMOPLASTIC SOLID WHITE CHANNELIZING LINE (8")
- (SY) - ITEM 644 - THERMOPLASTIC 4" CENTER LINE DOUBLE YELLOW, NO-PASSING MARKING
- (T) - ITEM 644 - THERMOPLASTIC TRANSVERSE/DIAGONAL LINE
- (A) - ITEM 644 - THERMOPLASTIC ARROWS
- (D) - ITEM 644 - THERMOPLASTIC 2' DOTTED LINES, WHITE



(C1) - 2 - 2" CONDUIT



SIGNAL PHASES

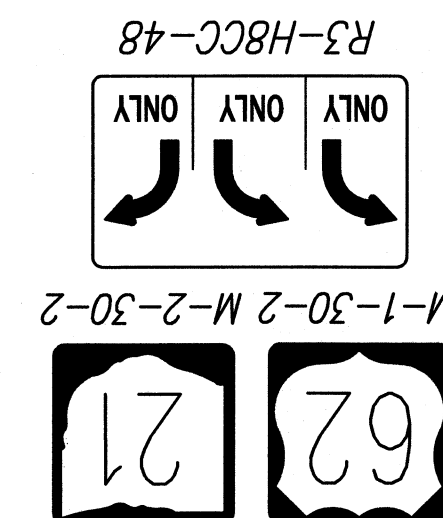
BENCHMARK SET
BOLT AT "O" OF OPEN
ON FIRE HYDRANT
STA. 22+21.44, 43.06' LT.
ELEV. 986.30

BENCHMARK SET
BOLT AT "O" OF OPEN
ON FIRE HYDRANT
STA. 27+20.62, 46.18' LT.
ELEV. 988.42

CURVE R-2 DATA
Δ = 91°41'37"
R = 50.00'
T = 51.50'
L = 80.02'
E = 21.78'

STATIONING

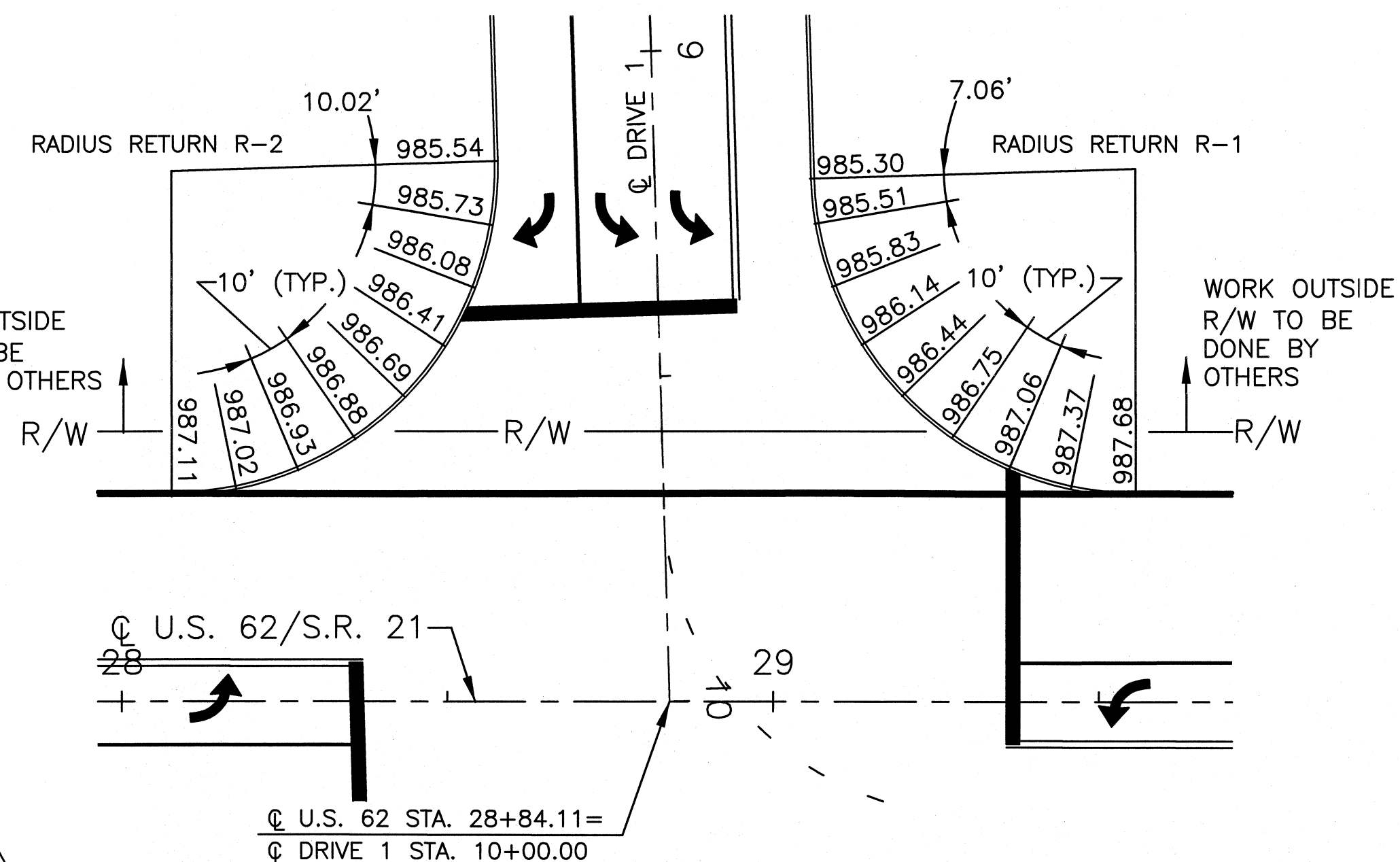
U.S. 62 STATIONING BASED ON 10+00.00 AT MONUMENT
AT INTERSECTION OF U.S. 62 AND WARMINGTON ST.



RECOMMENDED SIGNS TO BE
INSTALLED BY OTHERS 200'
FROM INTERSECTION

WORK OUTSIDE
R/W TO BE
DONE BY OTHERS

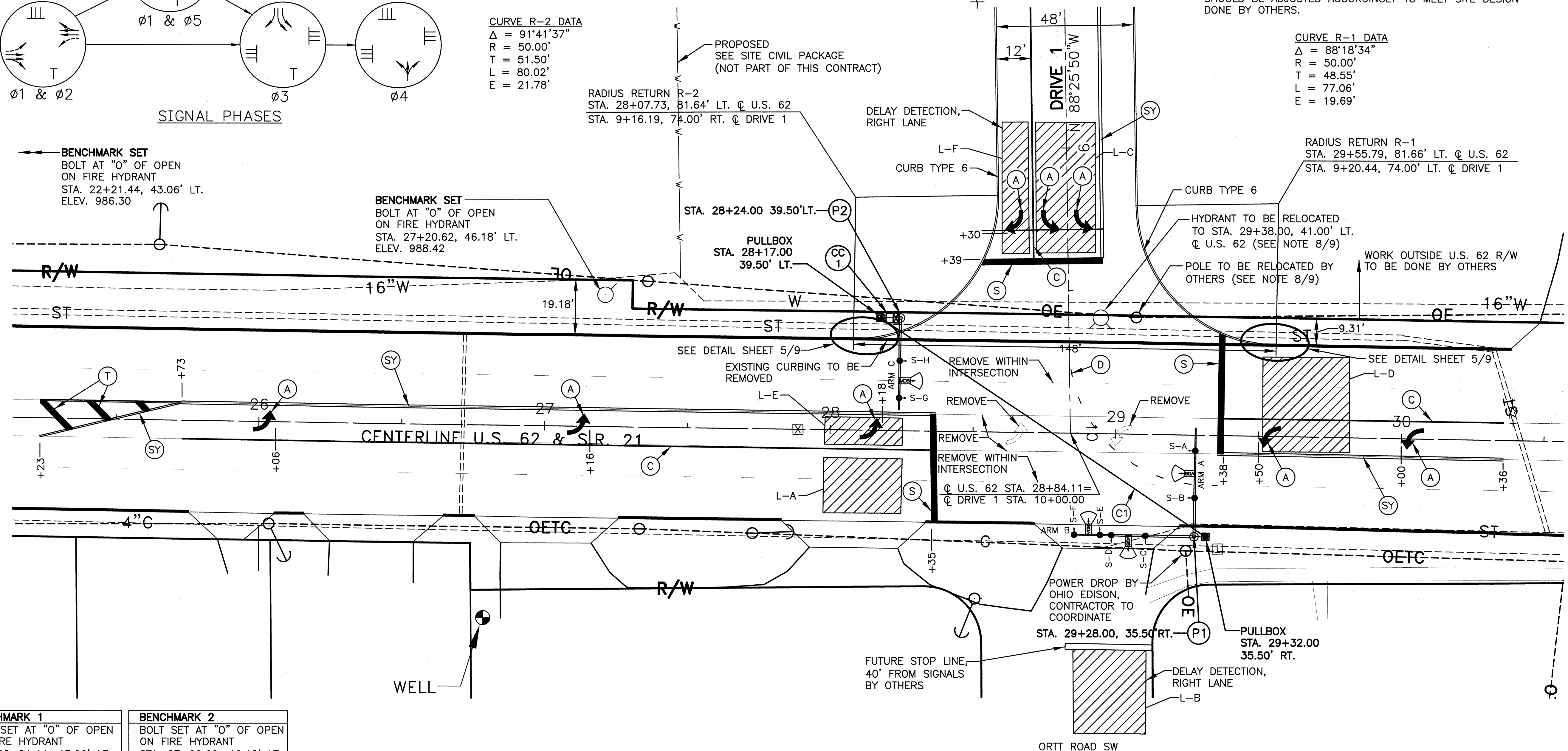
WORK OUTSIDE
R/W TO BE
DONE BY
OTHERS



NOTE: ALL ELEVATIONS SHOWN ARE EDGE OF PAVEMENT AT FACE
OF CURB. ALSO ALL GRADES SHOWN ARE PROPOSED AND
SHOULD BE ADJUSTED ACCORDINGLY TO MEET SITE DESIGN
DONE BY OTHERS.

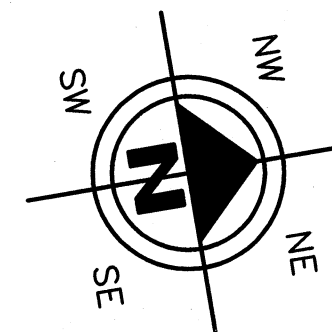
CURVE R-1 DATA
Δ = 88°18'34"
R = 50.00'
T = 48.55'
L = 77.06'
E = 19.69'

RADIUS RETURN R-1
STA. 29+55.79, 81.66' LT. U.S. 62
STA. 9+20.44, 74.00' RT. U.S. 62



BENCHMARK 1
BOLT SET AT "O" OF OPEN
ON FIRE HYDRANT
STA. 22+21.44, 43.06' LT.
ELEV. 986.30

BENCHMARK 2
BOLT SET AT "O" OF OPEN
ON FIRE HYDRANT
STA. 27+20.62, 46.18' LT.
ELEV. 988.42



HORIZONTAL
SCALE IN FEET

DRAWN BY: CMK
CHECKED BY: SDH
DATE: DEC., 2006
DATE: DEC., 2006

DRIVE 1 DETAILS Traffic Control City of Massillon Stark County, Ohio

REVISIONS:

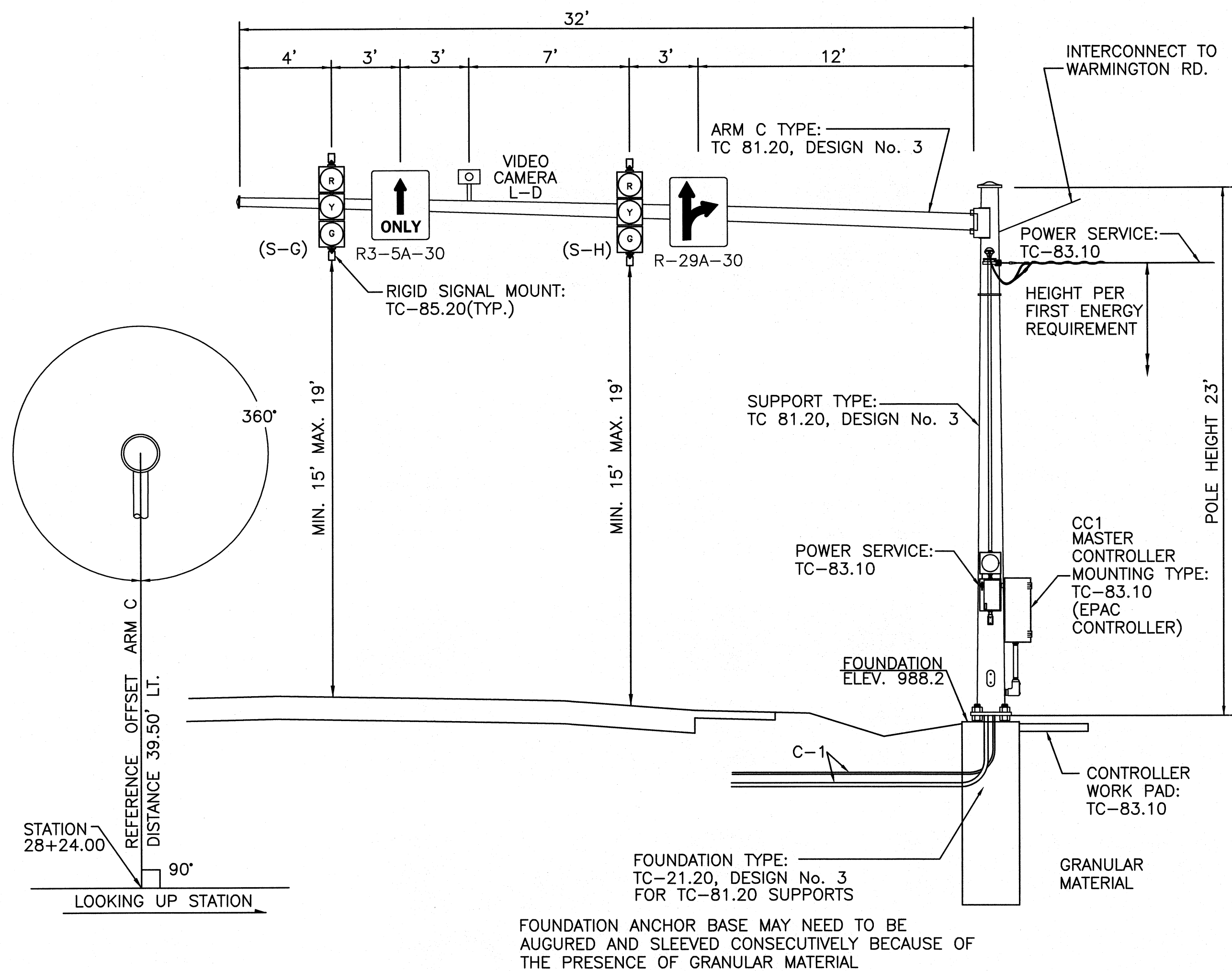
DATE	DESCRIPTION
3/07	DRIVE LOCATION
04/05/07	ODOT COMMENTS
04/17/07	ODOT COMMENTS
10/07	CITY COMMENTS

FILE NAME:
SIGNAL PLAN.DWG

ACCOUNT NUMBER
06240

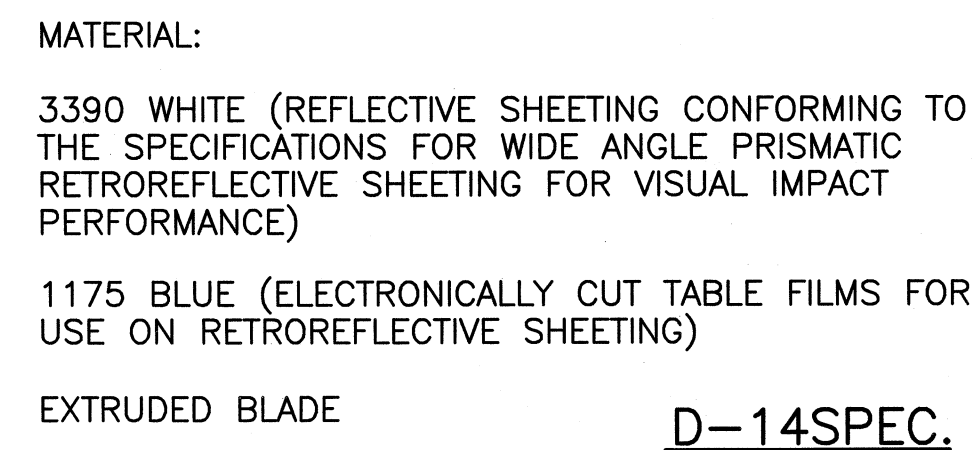
3 / 9

08 SD 03



SIGNAL TIMING IN SECONDS					
TIMING INTERVAL	NB	SB	EB	WB	NB LT
	Ø1	Ø2	Ø3	Ø4	Ø5
MINIMUM GREEN	4	4	4	4	4
ADDED INTIAL (SEC/ACT)	3	3	3	3	3
MAXIMUM INTIAL	NONE	NONE	4	4	4
PASSAGE TIME	3	3	3	3	3
TIME BEFORE REDUCTION	0	0	0	0	0
MINIMUM GAP	3	3	3	3	3
TIME TO REDUCE	0	0	0	0	0
MAXIMUM GREEN I	NONE	NONE	20	20	20
MAXIMUM GREEN II	NONE	NONE	20	20	20
YELLOW CHANGE	3	3	3	3	3
ALL RED CLEARANCE	2	2	2	2	2
WALK					
PEDESTRIAN CLEARANCE					
RECALL	NONE	NONE	NONE	NONE	NONE
MEMORY					

SIGNAL OPERATION																	FLASH
PHASE	ø1 & ø2				ø1 & ø5				ø3				ø4				
INTERVAL	R/W	R/W	C1	C2	R/W	R/W	C1	C2	R/W	R/W	C1	C2	R/W	R/W	C1	C2	
SIGNAL					G	G	Y										
A	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	Y
B	G	G	Y	R	G	G	Y	R	R	R	R	R					Y
C	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
D	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
E	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R
F	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R
G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
H	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	Y



MOUNTING:

ASTRO-SIGN BRACKET, CABLE MOUNT W/
DOUBLE MOUNT HARDWARE

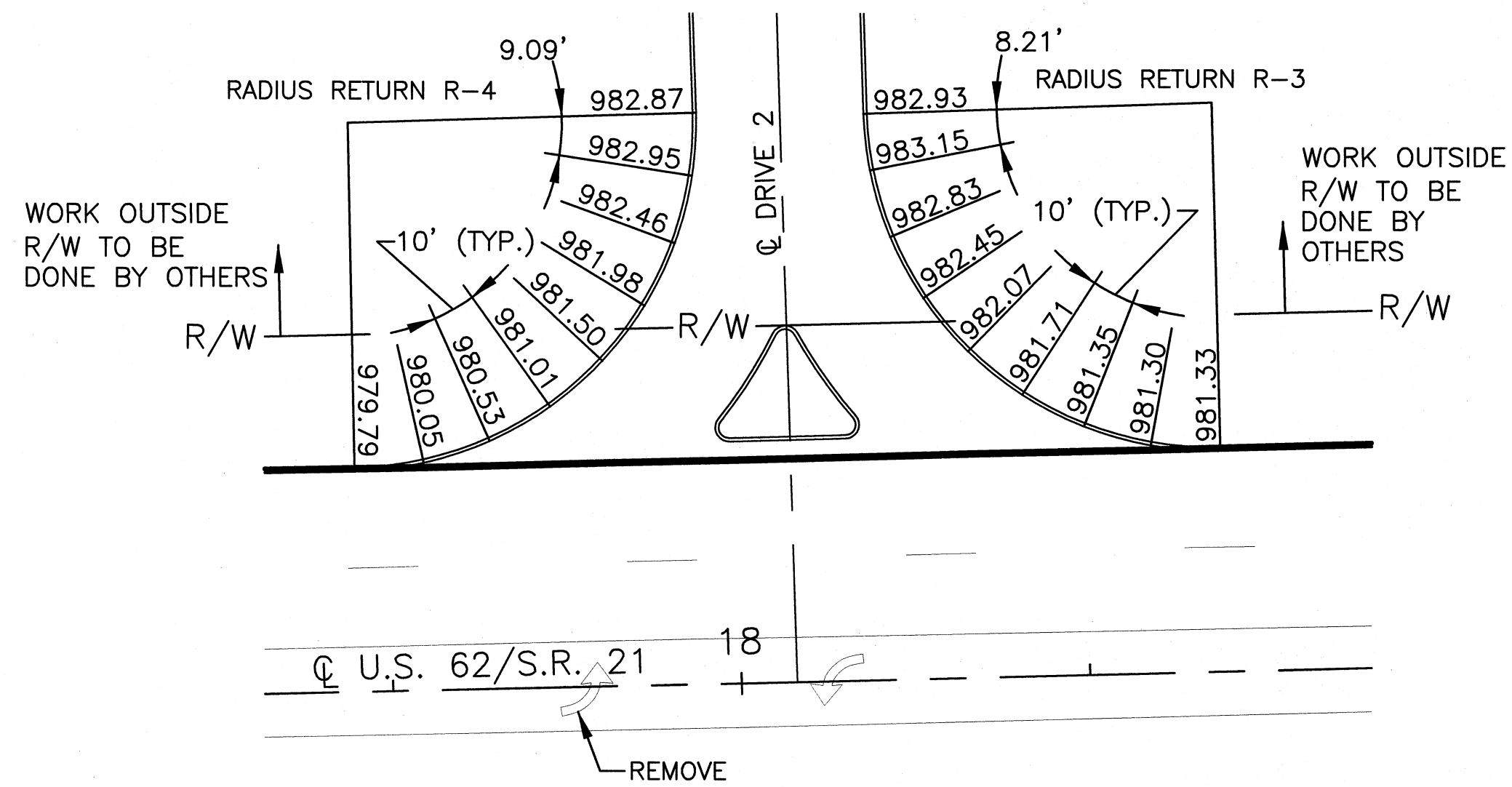
DRIVE 1 DETAILS
Traffic Control Detail
City of Massillon
Stark County, Ohio

REVISIONS:	
DATE	DESCRIPTION
3/07	DRIVE LOCATION
4/05/07	ODOT COMMENTS

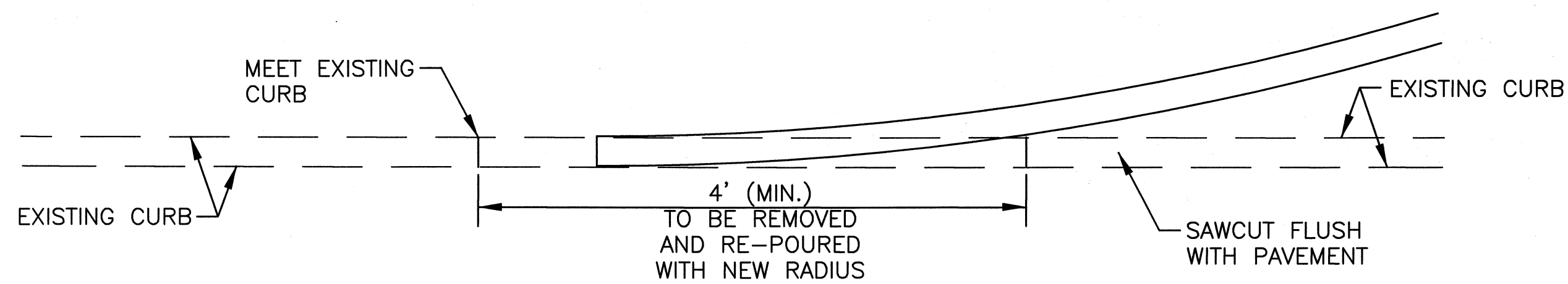
FILE NAME:	SIGNAL POLES.DWG
ACCOUNT NUMBER	06240

BENCHMARK 1
BOLT SET AT "O" OF OPEN
ON FIRE HYDRANT
STA. 22+21.44, 43.06' LT.
ELEV. 986.30

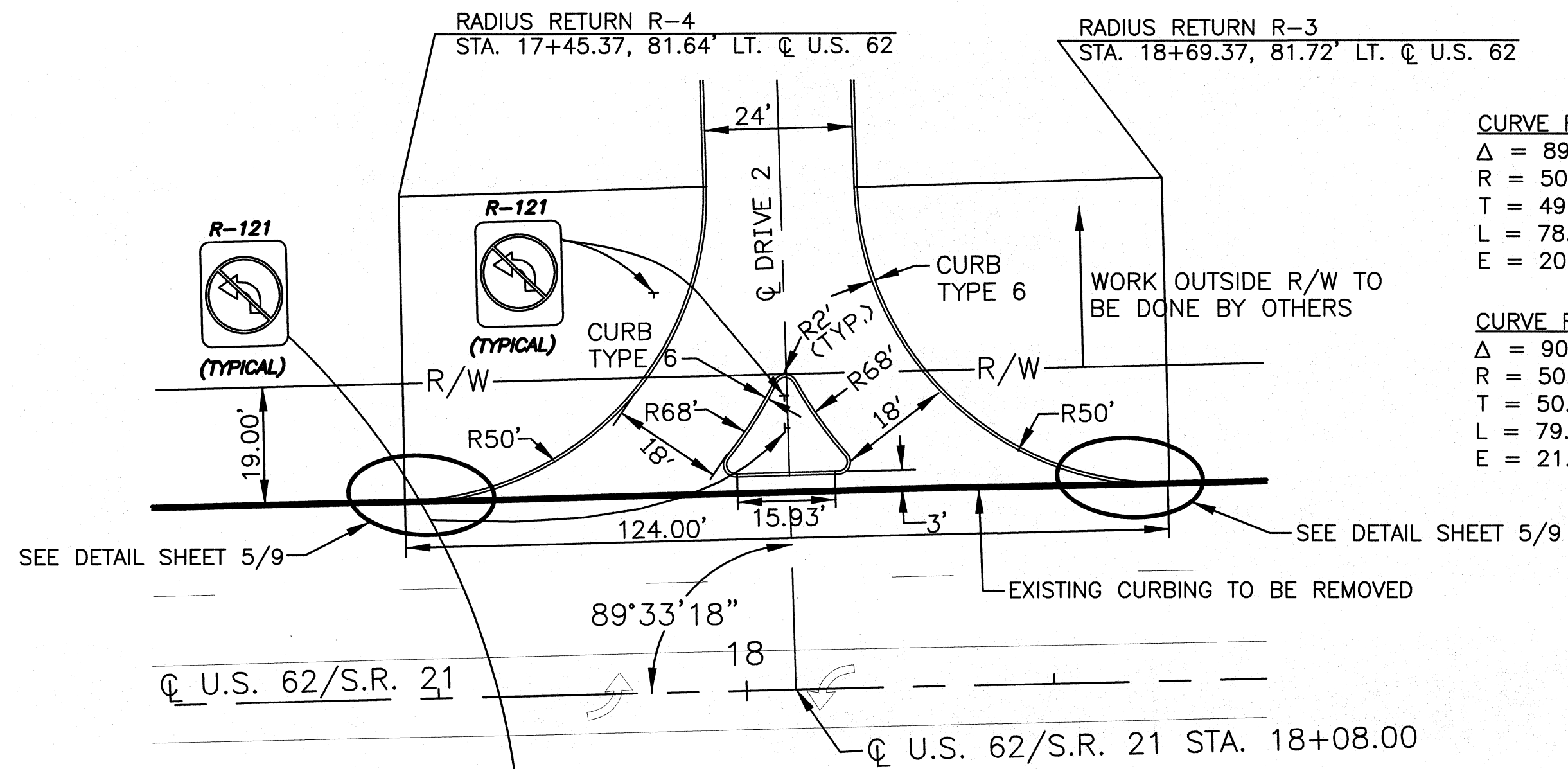
BENCHMARK 2
BOLT SET AT "O" OF OPEN
ON FIRE HYDRANT
STA. 27+20.62, 46.18' LT.
ELEV. 988.42



NOTE: ALL ELEVATIONS SHOWN ARE EDGE OF PAVEMENT AT FACE OF CURB. ALSO ALL GRADES SHOWN ARE PROPOSED AND SHOULD BE ADJUSTED ACCORDINGLY TO MEET SITE DESIGN DONE BY OTHERS.

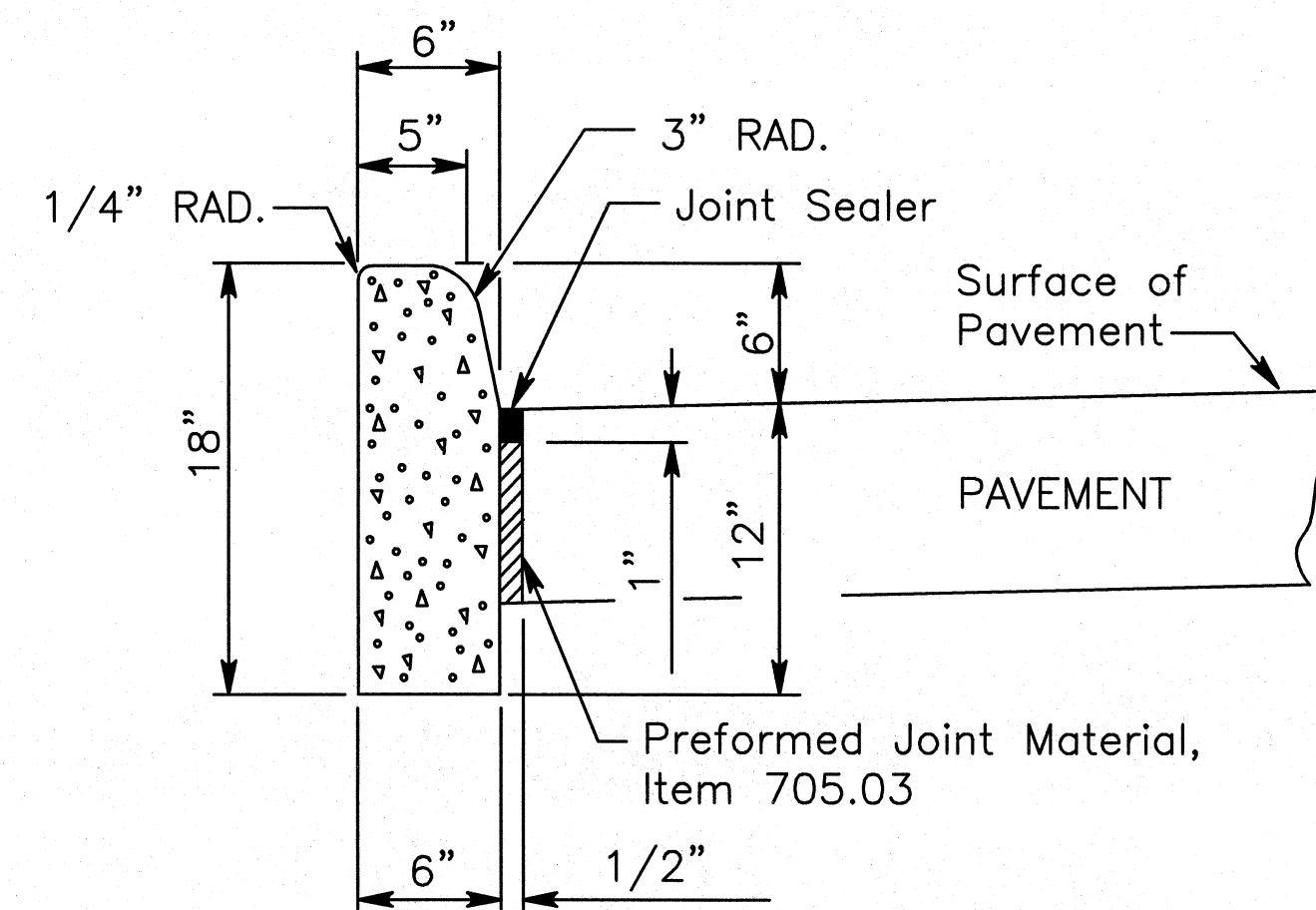


DETAIL



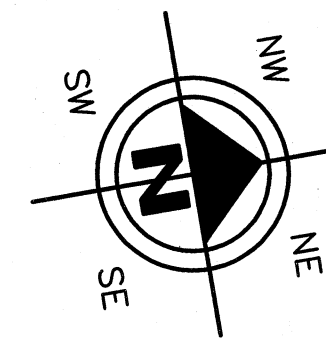
CURVE R-3 DATA
 $\Delta = 89^{\circ}37'30''$
 $R = 50.00'$
 $T = 49.67'$
 $L = 78.21'$
 $E = 20.48'$

CURVE R-4 DATA
 $\Delta = 90^{\circ}38'02''$
 $R = 50.00'$
 $T = 50.56'$
 $L = 79.09'$
 $E = 21.11'$



TYPE 6 CURB DETAIL

U.S. 62 STATIONING BASED ON 10+00.00
AT MONUMENT AT INTERSECTION OF U.S. 62
AND WARMINGTON ST.



HORIZONTAL
SCALE IN FEET

DRAWN BY: CMK
CHECKED BY: SDH
DATE: DEC., 2006
DATE: DEC., 2006

DRIVE 2 DETAILS

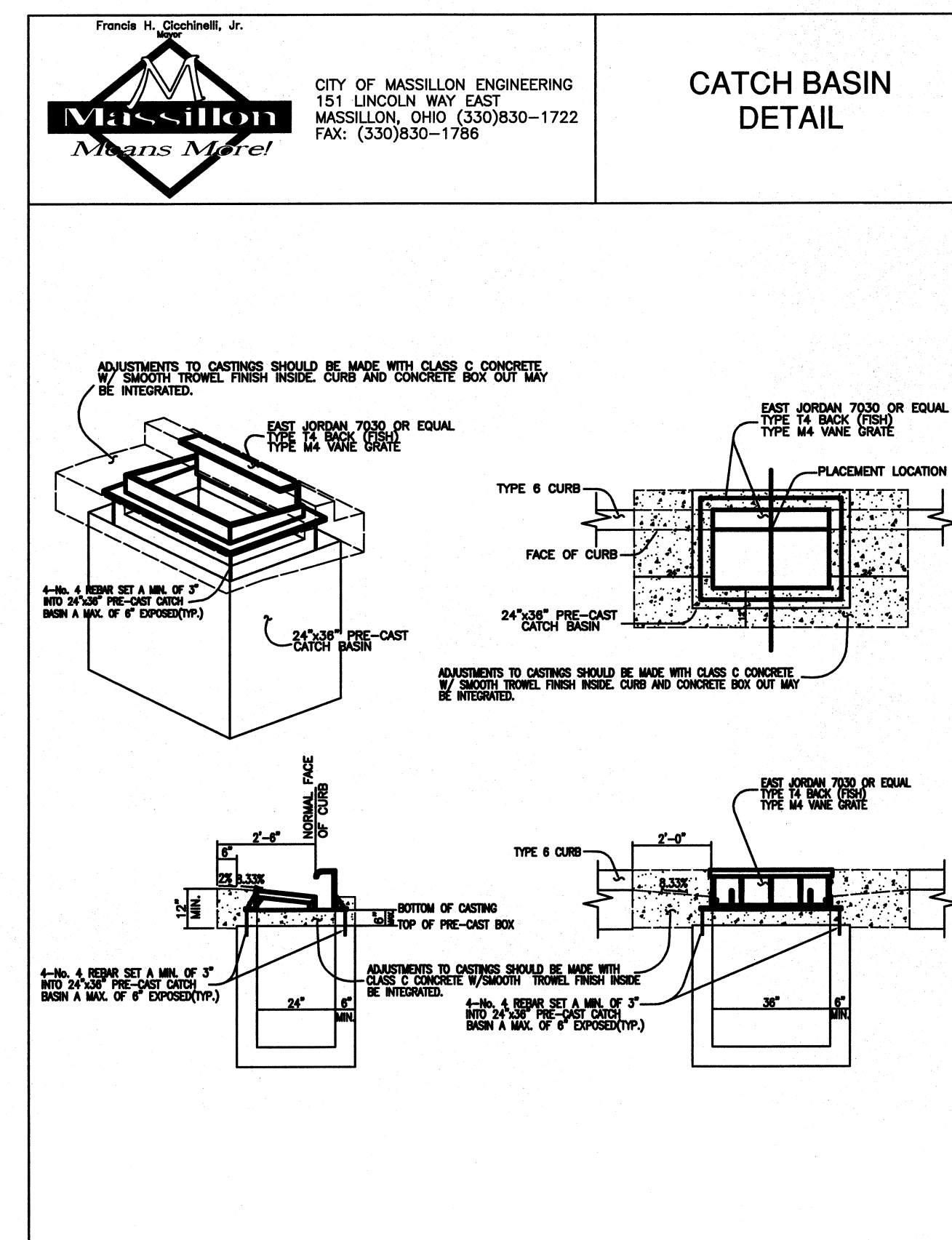
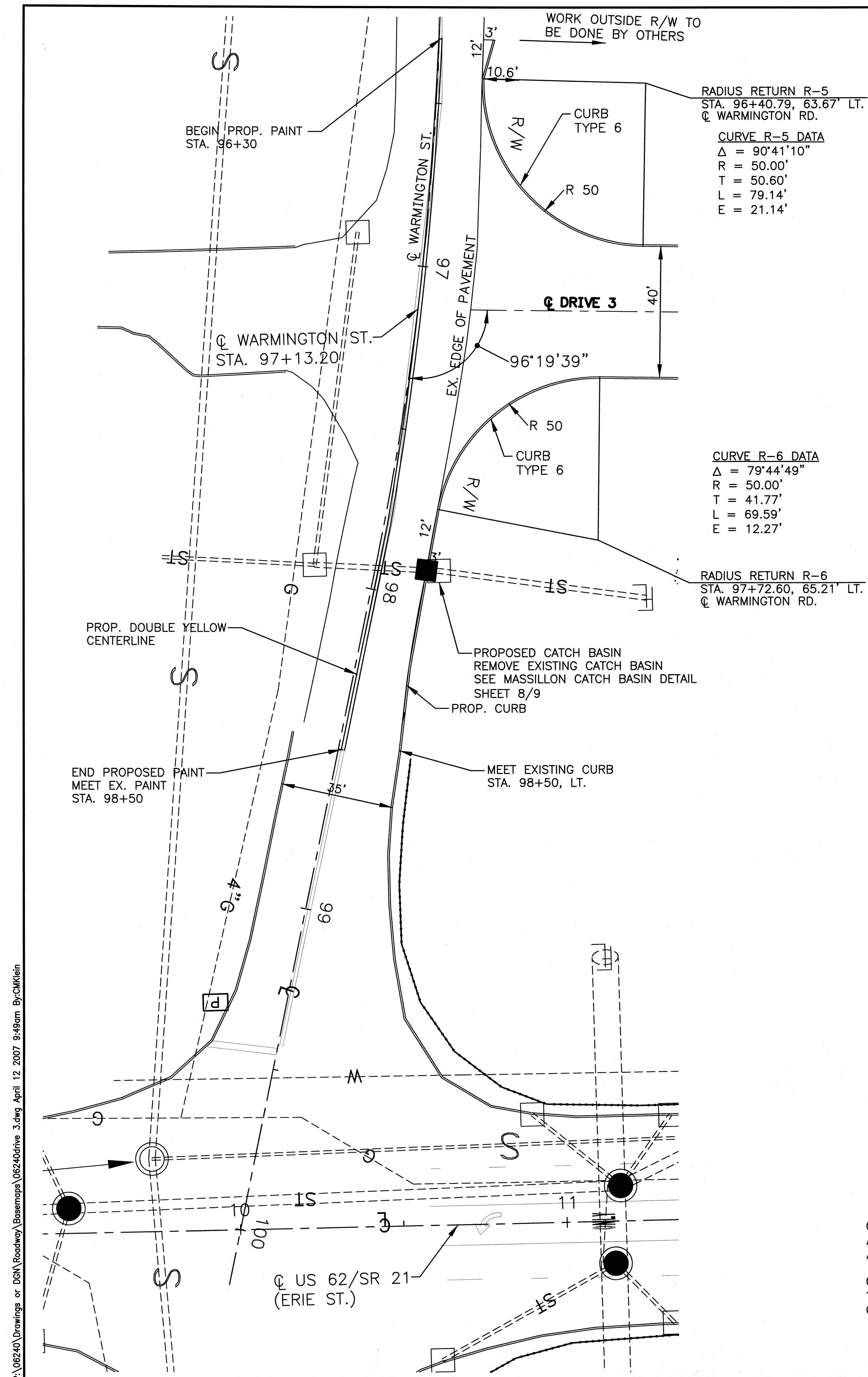
City of Massillon
Stark County, Ohio

REVISIONS:

DATE	DESCRIPTION
3/07	DRIVE LOCATION
10/07	CITY COMMENTS

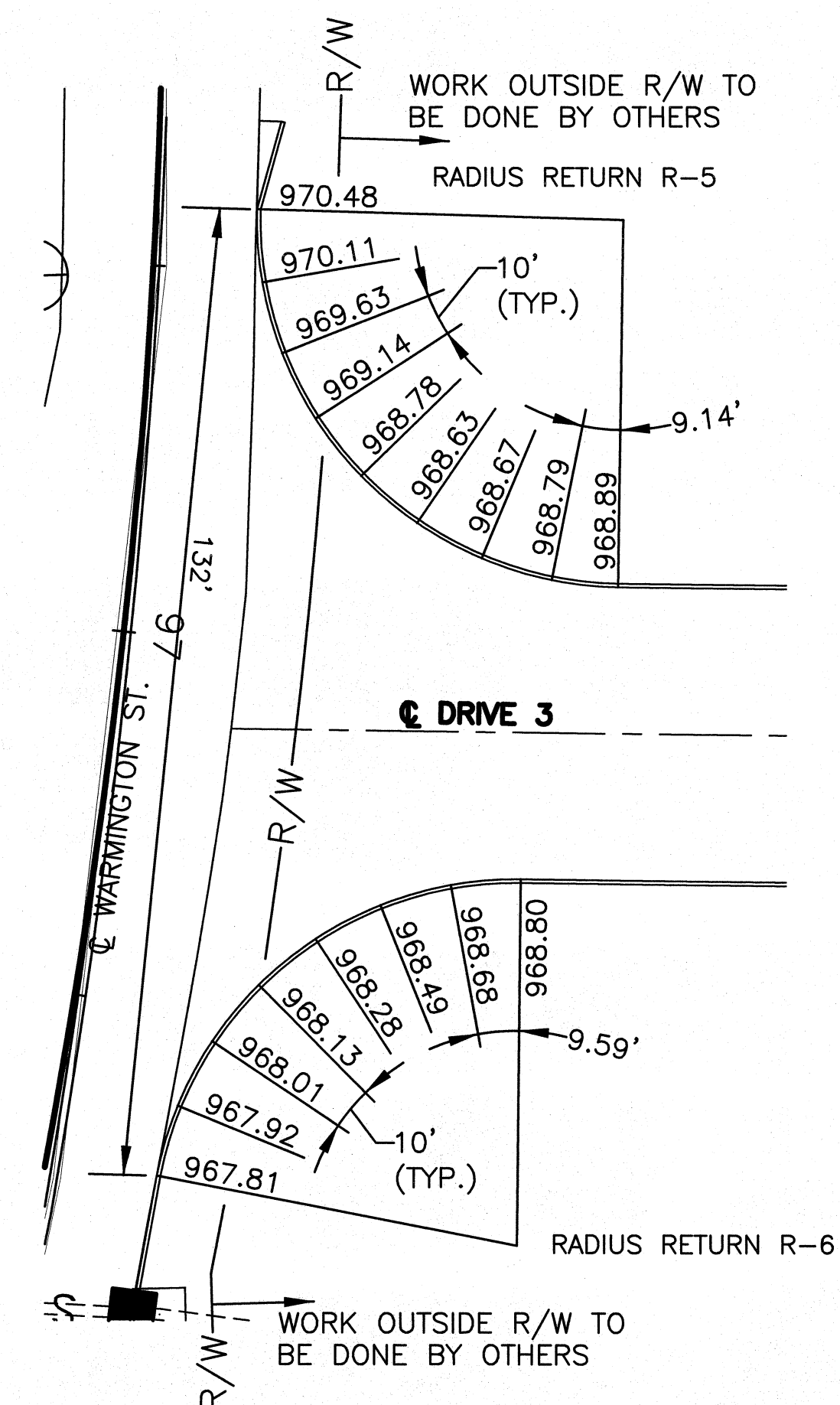
FILE NAME:
06240DRIVE 2.DWG

ACCOUNT NUMBER
06240



U.S. 62 STATIONING BASED ON 10+00.00
AT MONUMENT AT INTERSECTION OF U.S. 62
AND WARMINGTON ST.

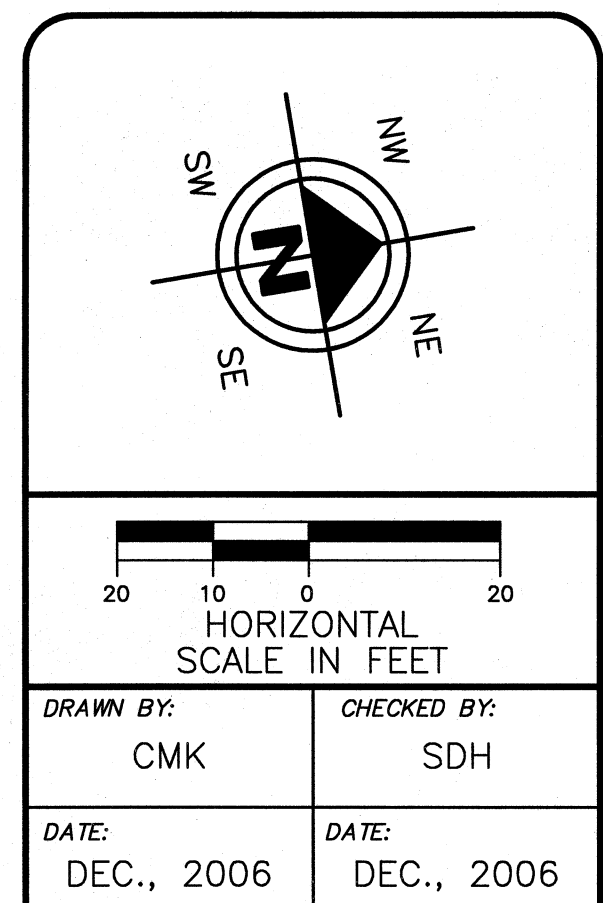
© WARMINGTON ST. STATIONING BASED ON
100+00.00 AT MONUMENT AT INTERSECTION
OF U.S. 62 AND WARMINGTON ST.



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BENCHMARK 1	BENCHMARK 2
BOLT SET AT "O" OF OPEN ON FIRE HYDRANT STA. 22+21.44, 43.06' LT. ELEV. 986.30	BOLT SET AT "O" OF OPEN ON FIRE HYDRANT STA. 27+20.62, 46.18' LT. ELEV. 988.42

BENCHMARK 2
BOLT SET AT "O" OF OPEN
ON FIRE HYDRANT
STA. 27+20.62, 46.18' LT.
ELEV. 988.42



DRIVE 3 DETAILS

City of Massillon
Stark County, Ohio

REVISIONS:	
DATE	DESCRIPTION
3/07	DRIVE LOCATION
10/07	CITY COMMENTS

FILE NAME:
06240DRIVE_3.DWG

ACCOUNT NUMBER 06240

P:\06240\Drawings or DGN\Roadway\Bismarck\GENERAL NOTES.dwg October 17 2007 3:10pm By:HMdlasz

UTILITIES

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

AT&T/AMERITECH
50 W. BOWERY, 6TH FLOOR
AKRON, OH 44308
800-384-8057

AQUA OHIO WATER
P.O. BOX 584
MASSILLON, OH 44648
(330) 833-4156

OHIO EDISON
STARK DIVISION
2600 S. ERIE ST.
MASSILLON, OH 44545
(330) 833-3141

MASSILLON CABLE TV
P.O. BOX 814
MASSILLON, OH 44648
(330) 833-4134

GREAT LAKES
104 6TH ST. S.W.
CANTON, OH 44702
(330) 456-2454

CITY OF MASSILLON
SANITARY SEWER
151 LINCOLN WAY EAST
MASSILLON, OH 44646
(330) 830-1722

DOMINION EAST OHIO GAS COMPANY
4725 SOUTHWAY ST. S.W.
CANTON, OH 44706
(330) 478-3142

NORTHEAST OHIO NATURAL
GAS CORP.
9081 S.R. 250
STRASBURG, OH 44680-9766
(330) 878-5589

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES 48 HOURS PRIOR TO WORK.

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

OUPS - 1-800-362-2764
OGUPUPS - 1-800-925-0988

DATUM ELEVATION

ALL BENCHMARKS ARE BASED ON REFERENCE BENCHMARKS PROVIDED BY MENARD, INC.

STATIONING

ALL STATIONING SHOWN IS REFERENCED TO THE CENTERLINE OF CONSTRUCTION AS SHOWN AND PROVIDED BY MENARD, INC..

NOTIFICATION OF SAFETY FORCES AND BUS GARAGES

THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE AGENCIES LISTED BELOW AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.

MASSILLON SAFETY SERVICE 330-830-1702	MASSILLON FIRE DEPARTMENT 330-833-1053
TUSCARAWAS TOWNSHIP HALL 330-832-4337	JACKSON FIRE DEPARTMENT 330-834-3950
JACKSON TOWNSHIP HALL 330-832-7416	PERRY FIRE DEPARTMENT 330-833-3865
PERRY POLICE DEPARTMENT 330-478-5121	PERRY SCHOOL BUS GARAGE 330-477-1300
SARTA 330-454-5333	PERRY TOWNSHIP HALL 330-833-2141
NORTH LAWRENCE FIRE DEPT. 330-832-6347	MASSILLON POLICE DEPARTMENT 330-830-1735
MASSILLON SCHOOL BUS GARAGE 330-830-1849	JACKSON POLICE DEPARTMENT 330-834-3960
JACKSON SCHOOL BUS GARAGE 330-830-8042	STARK COUNTY SHERIFF 330-430-3800
TUSCARAWAS SCHOOL BUS GARAGE 330-837-7805	

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKES HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING BID. PROSPECTIVE BIDDERS ARE TO COORDINATE WITH THE OWNER FOR ACCESS TO THE SITE FOR INSPECTIONS AND EXPLORATORY EXCAVATION. THE BIDDER SHALL CONTACT THE OWNER AT LEAST 72 HOURS IN ADVANCE OF THE DESIRED INSPECT OR EXCAVATION. THE BIDDER SHALL CONTACT O.U.P.S. AND OBTAIN LOCATIONS OF OTHER UTILITIES.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS & STANDARDS

ALL CONSTRUCTION TO BE CITY OF MASSILLON SPECIFICATIONS AND STANDARDS, THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND FOLLOW ALL OSHA AND ADA REGULATIONS AND REQUIREMENTS, SEDIMENT EROSION STANDARDS.

MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL SUPPLY A MAINTENANCE OF TRAFFIC PLAN TO THE CITY ENGINEER. MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE CITY ENGINEER AND STARK COUNTY ENGINEER PRIOR TO ANY CONSTRUCTION COMMENCING SAID APPROVED DETOUR SHALL BE FORWARDED TO THE LOCAL NEWSPAPER BY THE CONTRACTOR. MATERIALS AND LABOR SHALL BE INCLUDED IN LUMP SUM BID.

CONTRACTOR AVAILABILITY

THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A 24 HOUR PHONE NUMBER WHERE THE CONTRACTOR SHALL BE AVAILABLE FOR EMERGENCIES.

PRESERVATION OF PRIVATE & PUBLIC PROPERTY

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING, ADDITIONAL PAVEMENT, ETC. ANY ITEM DAMMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS ANY TYPE OF LAND MONUMENT. HE SHALL HAVE ALL LAND MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. HE SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY AN OHIO REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

CONDITIONS OF WORK

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT, STATE, COUNTY, AND CITY OF MASSILLON LAWS AND REGULATIONS. ALL WORK, AT ALL TIMES SHALL BE SUBJECT TO OBSERVATION BY THE OWNER AND/OR ENGINEER. ALL WORK SHALL COMPLY WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS AND OHIO EPA, AND STANDARDS OF THE CITY OF MASSILLON ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, AND APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES TO THE PROJECT SITE. ADJACENT ROADS SHALL BE MAINTAINED AND KEPT CLEAN OF MUD AND OTHER DEBRIS THAT MAY BE CAUSED BY TRAFFIC EXITING THE WORK SITE. THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL NECESSARY TRAFFIC CONTROL. TRAFFIC CONTROL SHALL FOLLOW THE MORE STRINGENT GUIDELINES OF THE CITY OF MISSION OR ODOT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN FACILITIES FOR A CONSTRUCTION OFFICE, EMPLOYEE PARKING, AND EMPLOYEE SANITARY FACILITIES. ON STREET PARKING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE FOR THE LAWFUL OFF-SITE DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE.

RESTORATION

FOR EXCAVATION COMPLETED, INSTALLED, TESTED, AND ACCEPTED UP TO MAY 15TH OF ANY CALENDAR YEAR, RESTORATION SHALL BE COMPLETE BY JUNE 30th OF THAT YEAR. FOR INSTALLATION OF SANITARY SEWER TESTED AND ACCEPTED FROM MAY 15th TO SEPTEMBER 30th OF ANY CALENDAR YEAR,

RESTORATION SHALL BE COMPLETE BY NOVEMBER 15th OF THAT CALENDAR YEAR. FOR ANY IMPROVEMENT INSTALLED, TESTED, AND ACCEPTED AFTER NOVEMBER 15TH OF ANY CALENDAR YEAR. RESTORATION SHALL BE COMPLETE BY MAY 15th OF THE NEXT CALENDAR YEAR.

AND MULCHED. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM OF AFFECTED WORK. TOPSOIL, SEEDING AND MULCHING SHALL NOT BE A SEPARATE PAY ITEM. THIS INCLUDES BACKFILLING, SEEDING AND MULCHING ALONG THE EDGE OF ALL PAVEMENT RESTORATION. PAVEMENT CROSSINGS WILL RECEIVE TYPE C PAVEMENT REPLACEMENT WITH FULL WIDTH PAVEMENT OVERLAY. CONTRACTOR TO REPLACE ALL PAVEMENT MARKINGS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT CONTRACTOR TO REPLACE ALL PAVEMENT MARKINGS. COST TO BE INCLUDED CONTRACTOR TO USE HOT APPLIED JOINT CRACK SEALER ON ASPHALT PAVEMENT AT ALL JOINTS. ALL TRENCHES IN ROAD RIGHT OF WAY WILL RECEIVE FULL DEPTH PREMIUM GRANULAR BACKFILL.

EXISTING DATA

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND BECOME THOROUGHLY FAMILIARIZED WITH THE SITE PRIOR TO BID SUBMISSION.

EXISTING STRUCTURES, GRADES, PIPING, ETC. ARE INDICATED IN APPROXIMATE LOCATION ON THE PLAN. INFORMATION SHOWN IS NOT GUARANTEED TO BE CORRECT AND COMPLETE. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK. EXISTING UNDERGROUND UTILITIES SHOWN ARE RECORDS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. EXISTING UNDERGROUND UTILITIES SHOWN ARE RECORDS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. SERVICE LATERALS ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE CITY, PRIOR TO BID OPENING NON-CONNFORMING OR CONFLICTING INFORMATION.

ACCESSIBILITY TO PRIVATE PROPERTY

ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES EXCEPT WHILE LAYING THE CONDUIT ACROSS THE DRIVE. THE TRENCH SHALL BE BACKFILLED AT THE END OF EACH WORK DAY TO PROVIDE ACCESS. THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CUTTING THEIR DRIVEWAY.

PRESERVATION OF EXISTING UTILITY SERVICES

ANY EXISTING WATER LINE, SANITARY SEWER, STORM SEWER, GAS LINE OR OTHER UTILITY IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THAT CONTRACTORS EXPENSE.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED AND STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS OR OTHER CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS TO BE COMPLETED. SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL PILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, AS DIRECTED BY THE ENGINEER. THE WASTE SITE IS TO BE PROVIDED BY THE CONTRACTOR AT NO COST, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS. ALONG WITH A LETTER FROM THE PROPOSED WASTE SITE OWNER PERMITTING SUCH AND HOLDING THE OWNER AND THE CITY HARMLESS.

GENERAL NOTES

SEAL:

REVISIONS:

DATE	DESCRIPTION
3/07	DRIVE LOCATION
10/07	CITY COMMENTS
ELECTRONIC FILE NAME: GENERAL NOTES.DWG	
ACCOUNT NUMBER 06240	

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08 SD 03

P:\06240\Drawings or DGN\Roadway\Basemaps\GENERAL NOTES.dwg October 17 2007 3:10pm By:HMD\ejz

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P:\06240\Drawings or DGN\Roadway\Bosemaps\TRAFFIC NOTES.dwg October 17, 2007 11:07am By:JHDeisz

ITEM 625 – POWER SUPPLY FOR TRAFFIC SIGNALS
ELECTRIC POWER SHALL BE OBTAINED FROM THE OHIO EDISON COMPANY AT THE LOCATION INDICATED ON THE PLANS. POWER SUPPLIED SHALL BE 120 VOLTS.

OHIO EDISON COMPANY–AKRON DIVISION
FAIRLAWN BUILDING #1
1910 W. MARKET STREET
AKRON, OHIO 44313–6912
PHONE 800–633–4766

ITEM 632 – POWER SERVICE, AS PER PLAN
IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHARGES MADE BY THE POWER COMPANY FOR WORK BY THE COMPANY IN CONJUNCTION WITH THE ESTABLISHMENT OF THE REQUIRED SERVICE.

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

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

ALL NEW OR RELOCATED ELECTRIC SERVICE ENCLOSURES ARE TO BE INSPECTED BY A LICENSED INSPECTOR PRIOR THE CONNECTION TO A UTILITY DISTRIBUTION LINE. THE CONTRACTOR SHALL APPLY FOR ALL INSPECTION(S): PAY THE APPROPRIATE FEE(S) AND ADVISE THE PROJECT ENGINEER OF THE TIME OF THE INSPECTION(S). SO THAT THEY MAY HAVE A REPRESENTATIVE IN ATTENDANCE. INSPECTION IS NOT A SUBSTITUTE FOR THE CITY'S FINAL INSPECTION, NOR DOES IS SUPERSEDE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE COST OF ALL NECESSARY INSPECTIONS SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE PER EACH 632 – POWER SERVICE, AS PER PLAN.

ITEM 625 – GROUND ROD, AS PER PLAN
IN ADDITION TO CMS 625.16, THIS ITEM SHALL CONSIST OF FURNISHING AND RUNNING OF A SEVEN (7) STRAND #4 COPPER WIRE FROM THE TOP OF THE GROUND ROD AND ATTACHING IT TO THE NEUTRAL BAR IN THE CABINET.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH.

ITEM 632 – POWER SERVICE, AS PER PLAN
POWER SERVICE SHALL BE AS PER CMS ITEM 632 AND SCD TC–83.10 WITH THE FOLLOWING EXCEPTIONS:
1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN 5 FEET (1.5 METERS) HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND.
2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES.
3. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL HAVE A LEVER OPERATED BYPASS.

DISCONNECT SWITCH ENCLOSURES FURNISHED IN ACCORDANCE WITH CMS ITEM 632, POWER SERVICE, AS PER PLAN, SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF THE POWER COMPANY FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE SIGNAL IS ACCEPTED BY THE MAINTAINING AGENCY.

GUARANTEE
THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF ONE YEAR FOLLOWING THE COMPLETION OF THE 10–DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY. EQUIPMENT, MATERIAL, AND LABOR COSTS INCURRED IN THE CORRECTION OF AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLERS AND ASSOCIATED EQUIPMENT, VIDEO DETECTION SYSTEM, INTERCONNECTION SYSTEMS, MASTER CONTROL EQUIPMENT, AND PREEMPTION EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE CITY OF AKRON, DIVISION OF TRAFFIC ENGINEERING FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

ITEM 632 – VEHICULAR SIGNAL HEAD WITH LED LAMP UNITS, BY TYPE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:

LAMPS:
LED, (LIGHT EMITTING DIODE), SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF STATE SUPPLEMENTAL SPECIFICATION 872. ALL LAMP UNITS SHALL BE THE 12 INCH SIZE. LED SIGNAL LAMP UNITS SHALL BE PROVIDED FOR ALL SIGNAL LENS TYPES. THE WATTAGE FOR EACH UNIT SHALL NOT EXCEED 6 WATTS FOR RED, 14 WATTS FOR GREEN AND 12 WATTS FOR YELLOW.

SIGNAL SECTIONS:
1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF CAST ALUMINUM AND MEET ITE SPECIFICATIONS. THE SIGNAL HEADS SHALL BE FEDERAL YELLOW IN COLOR WITH TUNNEL HOODS.
2. PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
3. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
MOUNTING HARDWARE:
1. ALL SIGNAL HEADS SHALL BE RIGIDLY MOUNTED TO THE MAST ARM WITH THE YELLOW LENS LOCATED IN FRONT OF THE MAST ARM. EXCEPT AT THE S. MAIN ST. AND WATERLOO RD. INTERSECTION WHERE DROP PIPES SHALL BE USED FOR THE DESIGNED VERTICAL CLEARANCE.

THE CONTRACTOR SHALL PROVIDE THE CITY OF MASSILLON, IN WRITING, THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS TO BE USED IN THE TRAFFIC SIGNAL HEADS PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES. THE INFORMATION SHALL BE SENT TO THE FOLLOWING LOCATION:

CITY OF MASSILLON, CITY ENGINEER
ATTN.: KEITH DYLEWSKI, P.E.
151 LINCPLN WAY EAST
MASSILLON, OHIO 44646

THE ITEM "VEHICULAR SIGNAL HEAD WITH LED LENSES, BY TYPE, AS PER PLAN" WILL BE MEASURED BY THE NUMBER OF COMPLETE UNITS FURNISHED AND INSTALLED, AND WILL INCLUDE ALL SUPPORT AND MOUNTING HARDWARE, DISCONNECT HANGERS, CLOSURE CAPS, DIMMERS, AND LAMPS AS SPECIFIED.

ITEM 632 – INTERCONNECT CABLE, MISC.: (BY SIZE), WITH SUPPORT MESSENGER, AS PER PLAN
THE CONTRACTOR WILL BE PERMITTED TO USE EITHER OF TWO TYPES OF INTERCONNECT CABLE CONSTRUCTION AND INSTALLATION UNDER THIS ITEM AS FOLLOWS:

1. INTEGRAL MESSENGER TYPE INTERCONNECT CABLE MEETING THE REQUIREMENTS OF CMS 732.19. UNDER THIS METHOD ANY SECTIONS OF CABLE SHOWN IN THE PLANS TO BE CONTAINED IN CONTROLLERS, CABINETS, POLES, CONDUITS OR SUPPORTED ON MESSENGER WIRE INSTALLED FOR OTHER PURPOSES SHALL HAVE THE SUPPORTING MESSENGER AND JACKET WEB NEATLY REMOVED BY THE USE OF A TOOL SPECIFICALLY DESIGNED AND SIZED FOR THIS PURPOSE. DEVIATIONS FROM THE CABLE ROUTING SHOWN IN THE PLAN, FOR THE SOLE PURPOSE OF REDUCING THE AMOUNT OF MESSENGER TO BE REMOVED, WILL NOT BE PERMITTED. THE CABLE SHALL BE INSTALLED WITH APPROXIMATELY ONE TWIST FOR EACH 15 FEET (4.5 METERS) OF SPAN LENGTH.

2. SEPARATE INTERCONNECT CABLE MEETING THE REQUIREMENTS OF CMS 732.19 PLUS A 1/4 INCH (6 MILLIMETERS) MESSENGER WIRE AND LASHING MEETING THE REQUIREMENTS OF CMS 732.18. UNDER THIS METHOD THE CONTRACTOR WILL INSTALL A SEPARATE 1/4 INCH (6 MILLIMETERS) MESSENGER TO SUPPORT THE SPANS OF INTERCONNECT CABLES IN ALL LOCATIONS WHERE THE PLANS SHOW INTERCONNECT CABLE WHICH IS NOT OTHERWISE SUPPORTED BY A SIGNAL MESSENGER WIRE OR OTHER SUITABLE SUPPORT. UTILIZATION OF EXISTING MESSENGER WIRE, NOT PROVIDED BY THE PROJECT OR DESIGNATED THEREIN AS AVAILABLE FOR USE, IS PROHIBITED. DEVIATION FROM THE CABLE ROUTING SHOWN IN THE PLANS, FOR THE PURPOSE OF REDUCING THE NEED FOR SEPARATE MESSENGER WIRE, WILL NOT BE PERMITTED. IN EITHER CASE THE NUMBER OF SPLICE LOCATIONS SHALL BE KEPT TO A MINIMUM. MEASUREMENT WILL BE BASED UPON THE NUMBER OF FEET (METERS) OF CMS ITEM 632, "INTERCONNECT CABLE, MISC.: (BY SIZE), WITH SUPPORT MESSENGER, AS PER PLAN" IN PLACE IN ACCORDANCE WITH THE METHOD DESCRIBED IN CMS 632.29 AND NO SEPARATE PAYMENT WILL BE PROVIDED FOR ANY SEPARATE MESSENGER WIRE USED TO SUPPORT INTERCONNECT CABLES.

INTERCONNECT
THE CONTRACTOR SHALL PROVIDE AND INSTALL AN INTERCONNECT BETWEEN THE NEW MASTER CONTROLLER AT THE NORTH DRIVEWAY INSTALLED AS PART OF THIS PROJECT AND THE EXISTING 2 PHASE CONTROLLER AT THE INTERSECTION OF US 62/SR21 AND WARMINGTON ROAD APPROXIMATELY 2,600 FEET SOUTH. THIS WORK SHALL BE ALL INCLUSIVE INCLUDING THE WIRE, INSTALLATION, INTERFACE WITH EXISTING AND NEW CONTROLLERS AND THE COORDINATION OF THE LIGHTS. THIS WORK SHALL BE DONE TO THE SATISFACTION OF MENARD, INC. AND THE CITY OF MASSILLON. THIS INTERCONNECT IS TO BE EITHER BY RADIO LINK OR HARD WIRED.

CITY SUPERVISION REQUIRED
THE CONTRACTOR SHALL DURING ALL PHASES OF WORK NOTIFY THE CITY OF MASSILLON DURING THE INSTALLATION OF THE SIGNAL AND THE MODIFICATION OF THE EXISTING CONTROLLER. THE CONTRACTOR SHALL CONTACT THE SAFETY DEPARTMENT OF AND DISCUSS THIS WITH JOHN HAUSER (330) 832–1176. IT IS REQUIRED THAT MR. HAUSER BE ON SITE DURING ALL ASPECTS OF THIS WORK.

ITEM 633 – CONTROLLER ITEM, MISC.: VIDEO DETECTION SYSTEM, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A VIDEO DETECTION SYSTEM CAPABLE OF INTERSECTION DETECTION CONTROL, FREEWAY MANAGEMENT DETECTION, INCIDENT VERIFICATION, TRAFFIC SURVEY DATA COLLECTION AND TEMPORARY DETECTION DURING CONSTRUCTION. REAL–TIME POLLING, DIAL–OUT OR STORED TRAFFIC DATA TO INCLUDE: VOLUME, OCCUPANCY, SPEED, DENSITY, HEADWAY AND 5 VEHICLE CLASSIFICATIONS EITHER BY PHASE OR PROGRAMMED TIMED INTERVALS RANGING FROM 1 SECOND TO 60 MINUTES. EXTENSIVE BOOLEAN LOGIC CAPABILITIES SHALL BE PROVIDED FOR FLEXIBLE DETECTOR LAYOUTS AND CAN BE USED TO HELP VALIDATE AN EVENT OR INCIDENT. THE DETECTION SYSTEM SHALL INCLUDE THE FOLLOWING LIST OF FEATURES AND CAPABILITIES:

PROVIDE A DETECTION SYSTEM THAT INCLUDES AN INTEGRATED COLOR CAMERA, 22XZOOM LENS, AND MACHINE VISION PROCESSOR IN ONE UNIT.

PROVIDE A SYSTEM THAT INCORPORATES SIMPLE SETUP AND CONFIGURATION OF THE INTERSECTION STOP BAR DETECTION APPLICATIONS WITH MINIMAL NUMBER OF DETAILED STEP–BY–STEP INSTRUCTIONS.

PROVIDE A COMMUNICATIONS PANEL THAT FULLY SUPPORTS AN ETHERNET IEEE 802.3 COMPLIANT 10/100BASE T AUTO SENSING PORT FOR ADVANCED SYSTEMS COMMUNICATIONS. THE ETHERNET PORT SHALL PROVIDE AN UPSTREAM CONNECTION TO OTHER ETHERNET DEVICES IN THE CABINET. AN INDUSTRY STANDARD RJ–45 TYPE CONNECTOR SHALL BE INCLUDED THAT SUPPORTS A SIMPLE CATSE PATCH CABLE INTERFACE. THE ETHERNET PORT SHALL SUPPORT HIGH SPEED SERIAL COMMUNICATIONS UP TO 230,400 BPS. THE ETHERNET PORT SHALL BE CONFIGURED USING A STATIC IP OR DHCP AND SHALL BE FACTORY PRE–CONFIGURED WITH A PRIVATE IP ADDRESS AND CALLS C SUBNET MASK.

PROVIDE A DETECTOR STATION THAT COLLECTS AND REPORTS TRAFFIC DATA GATHERED OVER SPECIFIC TIME INTERVALS.

PROVIDE CONTRACT LOSS DETECTORS THAT MONITOR THE QUALITY OF THE VIDEO IMAGE THAT IS BEING PROCESSED.

PROVIDE 24 VAC/DC POWER TO OPERATE THE DETECTOR.

PROVIDE A COMMUNICATIONS PORT THAT WILL ALLOW THE USER TO UPDATE THE EMBEDDED SOFTWARE WITH A NEW SOFTWARE RELEASE AND INTERACT WITH A PC CLIENT/SERVER APPLICATION FOR ALL OF THE VARIOUS DETECTION REQUESTS THAT ARE SUPPORT BY THE SENSOR.

PROVIDE A COMMUNICATIONS PROTOCOL OVER THE SUPERVISOR COMMUNICATIONS PORT WHICH INCLUDES UDP/IP MESSAGE PACKET AND ROUTING STANDARD, AND CAN BE USED THROUGHOUT THE FIELD OF SENSORS, HUBS AND THE HOST PC SERVER APPLICATION.

PROVIDE A CAMERA AND PROCESSOR THAT WILL CONSUME A MAXIMUM OF 10 WATTS, AND AN ENCLOSURE HEATER THAT WILL CONSUME 15 WATTS.

THE DETECTOR SYSTEM SHALL MAINTAIN A NON–VOLATILE OPERATIONS LOG WHICH MINIMALLY CONTAINS: REVISION NUMBERS FOR THE CURRENT DETECTOR HARDWARE AND SOFTWARE COMPONENTS IN OPERATION; TITLE AND COMMENTS FOR THE DETECTOR CONFIGURATION; DATE AND TIME THE LAST DETECTOR CONFIGURATION WAS DOWNLOADED TO THE SENSOR; DATE AND TIME THE OPERATION LOG WAS LAST CLEARED; DATE AND TIME COMMUNICATIONS WERE OPENED OR CLOSED WITH THE SENSOR; DATE AND TIME OF THE LAST POWER–UP; AND TIME–STAMPED, SELF–DIAGNOSED HARDWARE AND SOFTWARE ERRORS THAT AID IN SYSTEM MAINTENANCE AND TROUBLESHOOTING.

PROVIDE EXTENSION ARM AND CAMERA JUNCTION BOX AS PER COLOR AND TYPE PROVIDED UNDER SPECIFICATION FOR ALL DECORATIVE TRAFFIC SIGNAL SUPPORTS.

PROVIDE A VIDEO SYSTEM THAT WILL ALLOW FOR COMPLETE CONTROL OF THE CAMERAS, DETECTION PROGRAMMING, ZOOM CAPABILITIES, AND VIEWING A LIVE VIDEO IMAGE.

PROVIDE AN ETHERNET VIDEO SERVER THAT CONNECTS DIRECTLY TO A 10/100BT ETHERNET NETWORK THAT ACCOMMODATES FOUR ANALOG VIDEO STREAMS. THE VIDEO SERVER SHALL PRODUCE LIVE HIGH QUALITY MOTION–JPEG IMAGES AT SPEEDS UP TO 30 FRAMES PER SECOND USING STANDARD TCP/IP NETWORKS. PROVIDE A SUFFICIENT QUANTITY OF VIDEO SERVERS SUCH THAT THE ANALOG VIDEO OUTPUTS FROM ALL VIDEO DETECTION CAMERAS SHALL BE CONNECTED TO THE VIDEO SERVER FOR REMOTE VIEWING AND MONITORING.

CONNECT THE ETHERNET PORTS FROM BOTH THE COMMUNICATIONS INTERFACE PANEL AND THE VIDEO SERVERS TO THE OPTICAL ETHERNET TRANSCEIVER INSTALLED IN THE CONTROLLER USING PROPERLY RATED CATSE CABLES AND RJ45 CONNECTORS.

THE VIDEO DETECTION SYSTEM SHALL BE WARRANTED BY ITS SUPPLIER FOR A MINIMUM OF TWO YEARS. ONGOING SOFTWARE SUPPORT BY THE SUPPLIER SHALL INCLUDE UPDATES OF THE SENSOR AND APPLICATIONS OF THE SOFTWARE. THESE UPDATES SHALL BE PROVIDED FREE OF CHARGE DURING THE WARRANTY PERIOD.

CONSTRUCTION – LOCATE AND MOUNT DETECTOR IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS. PROVIDE SUFFICIENT NUMBER OF VIDEO CAMERAS TO PROCESS VEHICLE PRESENCE, PASSAGE, AND SYSTEM DETECTOR ZONES AS INDICATED IN THE PLANS. RELOCATION OF DETECTORS, ADDITIONAL JUNCTION BOXES, CONDUIT, AND CABLE NEEDED TO DETECT PULSE, PASSAGE AND SYSTEM DETECTION ZONES ARE INCIDENTAL TO THE COST OF THE PROJECT.

THE VIDEO DETECTION EQUIPMENT SHALL BE MANUFACTURED BY ECONOLITE CONTROL PRODUCTS, ITERIS, QUIXOTE TRAFFIC CORPORATION, OR APPROVED EQUAL.

ALL ITEMS NECESSARY TO PROVIDE A COMPLETE VIDEO DETECTION SYSTEM FOR ALL APPROACHES AT EACH INTERSECTION SHALL BE INCLUDED IN THE PAY ITEM. PAYMENT SHALL BE MADE AT THE THE CONTRACTOR UNIT PRICE FOR EACH ITEM 633, CONTROLLER MISC.: VIDEO DETECTION SYSTEM, AS PER PLAN IN PLACE AND FULLY OPERATIONAL AS SHOWN IN THE PLANS FOR EACH INTERSECTION.

TRAFFIC NOTES

SEAL

REVISIONS:

DATE	DESCRIPTION
3/07	DRIVE LOCATION

FILE NAME:

TRAFFIC NOTES.DWG

ACCOUNT NUMBER

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