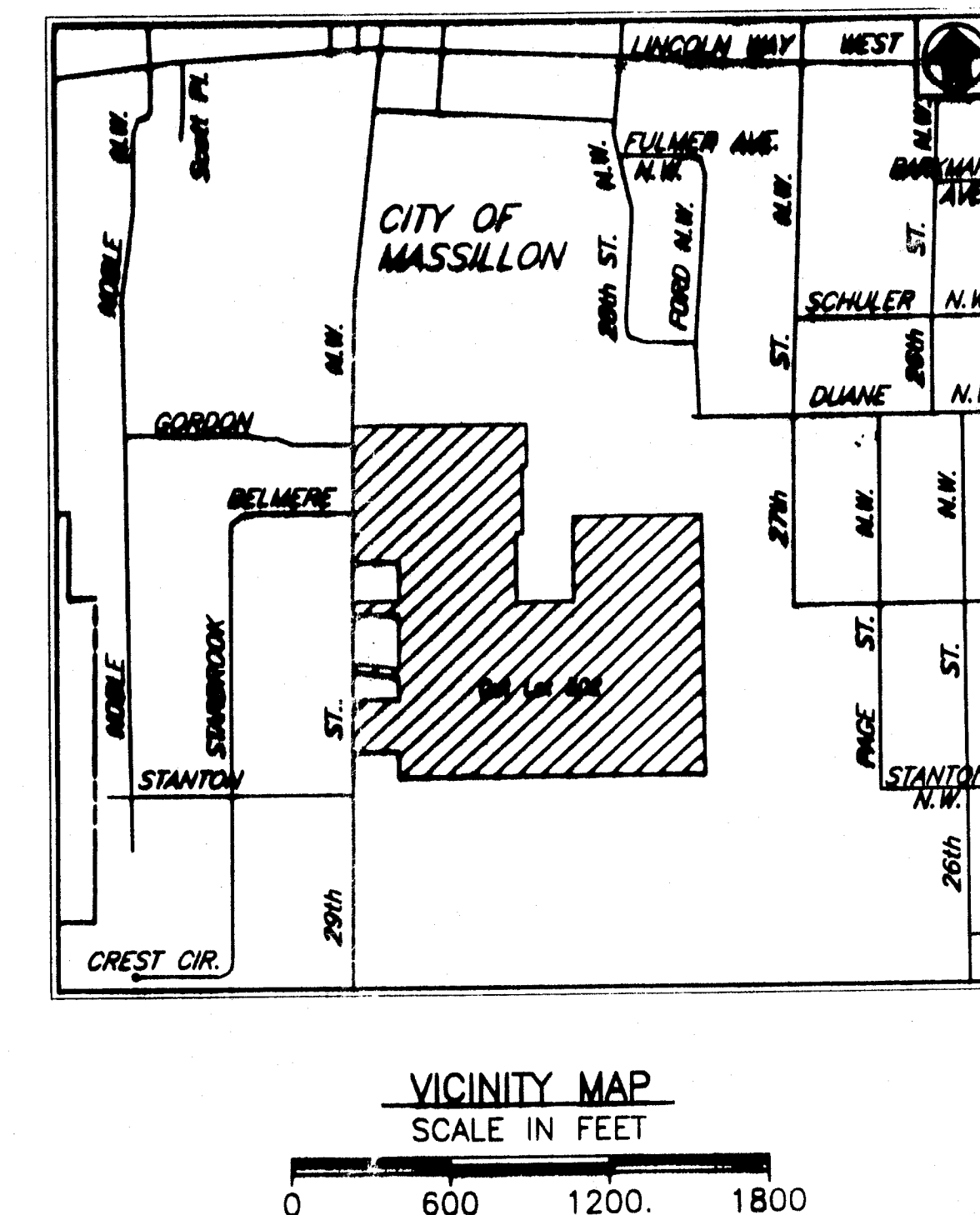


*AUTUMN RIDGE ESTATES
PHASE III
TITLE AND TYPICAL SECTION*

[illegible]

UNDERGROUND UTILITIES

TWO WORKING DAYS

BEFORE YOU DIG

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

OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS

MUST BE CALLED DIRECTLY

SEWERAGE
APPROVED
OHIO ENVIRONMENTAL PROTECTION AGENCY
AS EVIDENCE OF COPY OF
LETTER OF APPROVAL
HERETO ATTACHED

D.W.P.

OWNER:

NALEX
NALEX ENGINEERING, INC.
425 TERRY AVE. N.E.
MASSILLON, OHIO, 44646
PHONE 330-830-1452

PHASE MAP
SCALE IN FEET



PLAN PREPARED BY:
NALEX ENGINEERING INC.

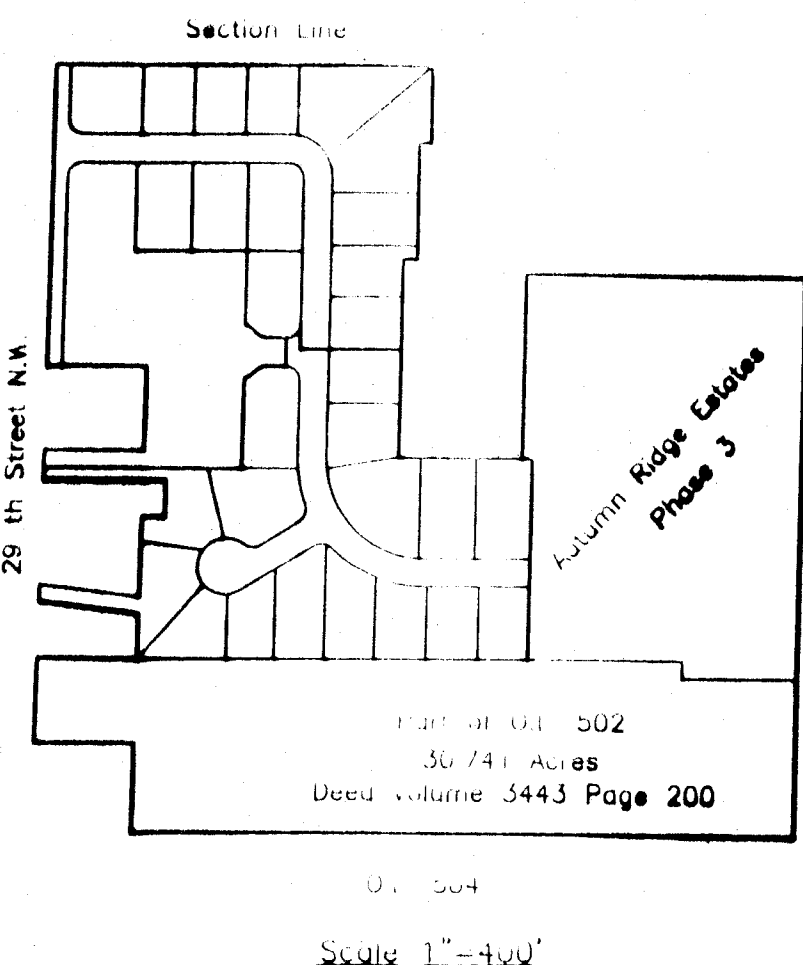
STEVEN D. HAMIT
E-81595
REGISTERED PROFESSIONAL ENGINEER

James J. Benekos 9-11-00
CITY ENGINEER JAMES J. BENEKOS, P.E., P.S. DATE

Donald L. Snyder 9-12-00
CONSUMERS OHIO WATER, INC. DONALD L. SNYDER DATE

[illegible]

Curve No.	Radius	Delta	Length	Chord	Bearing
C-4	50.00'	89°40'00"	78.25'	70.50'	N41°05'40"W
C-301	25.00'	89°40'20"	39.13'	35.25'	N45°09'50"W
C-302	25.00'	90°19'40"	39.41'	35.46'	N44°50'10"E
C-303	75.00'	39°06'23"	51.19'	50.20'	N15°48'54"W
C-304	75.00'	50°35'37"	66.18'	64.06'	N60°38'54"W
C-305	25.00'	59°58'05"	23.55'	22.69'	N58°56'37"W
C-306	60.00'	57°43'04"	39.50'	38.79'	N50°49'07"W
C-307	60.00'	60°00'00"	62.83'	60.00'	S80°19'21"W
C-308	60.00'	60°00'00"	62.83'	60.00'	S20°19'21"W
C-309	60.00'	60°00'00"	62.83'	60.00'	S39°40'39"E
C-310	60.00'	70°13'06"	73.53'	69.02'	N75°12'48"E
C-311	25.00'	53°58'05"	23.55'	22.69'	N67°05'18"E
C-312	25.00'	89°40'00"	39.12'	35.25'	S41°05'40"E



OHIO WATER DEVELOPMENT AUTHORITY
O.R. 96 PAGE 191

ACREAGE SUMMARY

LOTS = 6,223 AC.
ROADS = 1,244 AC.
TOTAL = 7,467 AC.

Notes of Bearing:

Bearings are based on the N 41°05'40" W along the west line of the 1/4 Section 13, Twp. 13 N., R. 13 E., which is also the centerline of 29th Street as per Deed Volume 3443, Page 200, Stark County Records.

NOTE: A STANDARD PROPERTY 5/8" BAR SHALL BE SET AT ALL INTERSECTIONS AND CURVES AS SHOWN ABOVE

■ DENOTES MONUMENT BOXES TO BE SET AT INTERSECTIONS AND CURVE POINTS WITH 5/8" BAR.

SOURCES USED:

- TAX MAP
- DEEDS:
 - D.V. 3443, PAGE 200
 - D.V. 2758, PAGE 452
 - D.V. 2303, PAGE 390
 - O.R. 58, PAGE 747
 - D.V. 3081, PAGE 501
 - D.V. 2758, PAGE 452
 - D.V. 2359, PAGE 41
 - D.V. 2090, PAGE 445
 - D.V. 1970, PAGE 213
 - D.V. 4300, PAGE 618
- SURVEYS:
 - O.R. 96, PAGE 191
 - O.R. 1202, PAGE 245
 - O.R. 1268, PAGE 878
 - O.R. 1268, PAGE 710
 - D.V. 4213, PAGE 782
 - C. G. DEIBEL DATED 5-98
 - G. G. DUNLAP SONS DATED 7-67
 - FAULHABER DATED 6-24-63
 - LANDIS DATED 1-62
- PLAT OF WEST VIEW HEIGHTS ALLOT.
PLAT BOOK 13, PAGE 24

Approved by the City of Massillon Planning Commission this 12th day of July, 2002.
Ron DeLeon Chairman
James J. Bunker Secretary

Accepted by the City Council of Massillon, Ohio, by Ordinance No. 160-2002 passed this 7th day of August, 2002.
James J. Bunker President
Shawn Hensell Clerk

I certify based on documents submitted to me, that to my knowledge no encumbrances exist on any of the lands herein offered for Dedication as public streets as of this 25 day of August, 2002.

John D. Sinner
Massillon City Law Director

Lot Numbers 16098 thru 16115
Assigned by the Massillon City Engineer
James J. Bunker
Massillon City Engineer

Entered for Transfer this _____ day of _____, 20____.

Stark County Auditor

Received for Record this _____ day of _____, 20____.

Recorded in Plat Book _____, Page _____.

Stark County Recorder

I hereby Certify that this plat of Autumn Ridge Estates Phase III located in the City of Massillon, County of Stark, and in the State of Ohio and being Part of Out Lot 502, represents a survey made by me which balances and closes, that the monuments shown herein exist or shall be set as shown and that all dimensional and geometric details are correct. I also will set 1/8" bars at all lot corner chain adjacencies.

Ronald C. Hinton
Surveyor
Ronald C. Hinton P.S.

Know all men by these presents, that the undersigned owners of the Land shown on this plat, do hereby acknowledge the making of the same to be their free act and deed, and do hereby dedicate the streets and public easements shown herein to public use forever.

Witness
David E. Daugherty
David E. Daugherty
President
Michael R. Wetling
Michael R. Wetling
Treasurer

STATE OF OHIO
COUNTY OF STARK
Before me a Notary Public, in and for said county and state, personally appeared the above signed owners of the land shown on this plat, who acknowledged that they did sign the foregoing instrument and that it was their free act and deed according to law. In testimony whereof, I have hereunto subscribed my name and affixed my seal at Massillon, Ohio, this 12 day of August, 2002.

Wendy L. Boyce
Notary Public
4-13-2005
My Commission Expires

EASEMENTS AND RESTRICTIONS

An easement, ten feet wide on the front and five feet wide on the sides and back of all lots, and ten feet on the exterior boundary of this subdivision is hereby dedicated and reserved to the subdivision to the City of Massillon, Ohio Water Service Co., East Ohio Gas Company, Ohio Edison Company, Ohio Bell Telephone Company, Massillon Cable Company, and any P.U.D. Regulated Utility for the purpose of construction, erection, and/or maintenance of any transmission lines, pipes, cables, conduits, buried wires, cables or other appurtenances for the transmission of power, electric, communications, steam, water, sanitary sewer, water, and/or any future developed public utility this easement gives all of the utilities the right to remove trees and landscaping without liability as required to maintain, operate, or construct the facilities.

HORIZONTAL SCALE IN FEET 50' 25' 0' 25' 50'	
DRAWN BY: SDH	CHECKED BY: RCH
DATE: April 2000	DATE: April 2000

Autumn Ridge Estates Phase III

D.W.P.

2853 Centre Hill Circle N.W.
Massillon, Ohio 44646
Phone 330-830-8807
Fax 330-830-8807

OWNER: 																					
REVISIONS: <table border="1"> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>		DATE	DESCRIPTION																		
DATE	DESCRIPTION																				

GENERAL NOTES

UTILITIES

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

AMERITECH 50 W.BOWERY, 6TH FLOOR AKRON, OH 44308 800-290-2242 RICK MARSILI	CONSUMER OHIO WATER COMPANY P.O. BOX 584 MASSILLON, OH 44648 (330) 833-4156	OHIO EDISON STARK DIVISION 2800 S. ERIE ST. MASSILLON, OH 44545 (330) 833-3141
MB OPERATING 104 6TH ST. S.W. CANTON, OH 44702 (330) 456-2454	AT&T COMMUNICATIONS 2535 E. 40TH AVE. DENVER, CO 80205-3601 (800) 852-3786	MASSILLON CABLE TV P.O. BOX 814 MASSILLON, OH 44648 (330) 8334134
CITY OF MASSILLON SANITARY SEWER ONE JAMES DUNCAN PLAZA MASSILLON, OH 44646 (330) 830-1722	THE EAST OHIO GAS COMPANY 4725 SOUTHWAY ST. S.W. CANTON, OH 44706 (330) 478-3142 NANCY KOVACH	NORTHEAST OHIO NATURAL GAS CORP. 1425 N. WOOSTER AVE. STRASBURG, OH 44680-9766 (330) 878-5589

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

NO LATER THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 TO ENSURE THE EXACT FIELD LOCATION OF ANY EXISTING UTILITIES ON SITE.

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.

STREET LIGHTS

STREET LIGHTING IS REQUIRED THE DEVELOPER SHOULD COORDINATE WITH LOCAL UTILITY FOR POLE LOCATION AND TYPE.

STATIONING

ALL STATIONING SHOWN IS REFERENCED TO THE BASELINE AS SHOWN.

PRE - CONSTRUCTION MEETING

THE CONTRACTOR SHALL NOTIFY THE CITY OF MASSILLON ENGINEERING DEPT. AT 830-1722. FOR A PRE- CONSTRUCTION MEETING TO BE HELD NO SOONER THAN 48 HOURS PRIOR TO THE INITIATION OF WORK ON THE SITE. PRESENT AT SAID MEETING SHALL BE THE OWNER, CONTRACTOR, AND THE CITY ENGINEER OR HIS APPOINTED.

CROSSING OR CONNECTING TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ITEM 651. TOPSOIL STOCKPILED

PROVISIONS OF 201.4. SOD AND INCIDENTAL TOPSOIL REMOVED ELSEWHERE ON THIS PROJECT FOR SALVAGE, FOR USE AS DESCRIBED IN 203.04(e), SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE VARIOUS 203 ITEMS.

NOTIFICATION OF SAFETY FORCES

THE CONTRACTOR SHALL NOTIFY THE CITY OF MASSILLON FIRE DEPARTMENT, MASSILLON POLICE DEPARTMENT, CITY ENGINEER AND LOCAL (MASSILLON, TUSLAW, JACKSON & PERRY) SCHOOL DISTRICT TRANSPORTATION SUPERVISOR, AND THE SAFETY & SERVICE DIRECTOR AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC PATTERN CHANGE.

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. SERVICE LATERALS ARE NOT SHOWN.

IT IS THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE CITY, PRIOR TO BID OPENING NON-CONFORMING OR CONFLICTING INFORMATION.

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.

CONTRACTOR AVAILABILITY

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

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.

ITEM 623. CONSTRUCTION STAKING

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND UPON COMPLETION OF PROJECT AS-BUILT DRAWINGS ARE REQUIRED.

THIS WORK IS TO BE UNDER ITEM 623 CONSTRUCTION STAKING.

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE BIDDER TO MAKE HIS OWN INVESTIGATIONS OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. THE BIDDER MAY EXAMINE THE RECORDS OF ALL BORINGS, TEST EXCAVATIONS AND OTHER SUBSURFACE INVESTIGATIONS, IF ANY, MADE SOLELY FOR DESIGN PURPOSES FOR THE OWNER. SAID BORINGS, TEST EXCAVATIONS AND OTHER SUBSURFACE INVESTIGATIONS, ARE NOT A PART OF THE CONTRACT DOCUMENTS, EXCEPT TO THE EXTENT THAT THE RESULTS THEREOF ARE SPECIFICALLY SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS AND ARE NOT WARRANTED TO SHOW THE ACTUAL SUBSURFACE CONDITIONS. THE CONTRACTOR AGREES THAT THEY WILL MAKE NO CLAIM AGAINST THE OWNER OR THE ENGINEER IF, IN CARRYING OUT THE WORK, HE FINDS THAT THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED DO NOT CONFORM TO THOSE INDICATED BY SAID BORINGS, TEST EXCAVATIONS AND OTHER SUBSURFACE INVESTIGATIONS.

RESTORATION

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

ALL SOIL AREAS DISTURBED BY THE CONTRACTOR SHALL BE TOP SOILED, SEEDED 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 BACK FILLING, 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 USE HOT APPLIED JOINT CRACK SEALER ON ASPHALT PAVEMENT AT ALL ENDS AND INTERSECTIONS.

ALL TRENCHES IN ROAD RIGHT OF WAY WILL RECEIVE FULL DEPTH PREMIUM GRANULAR BACK FILL.

PRESERVATION OF PRIVATE PROPERTY

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED 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.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED 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 TO 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 TO THE OWNER. UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS, ALONG WITH A LETTER FROM THE PROPOSED WASTE SITE OWNER PERMITTING SUCH AND HOLDING THE CITY HARMLESS.

MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL SUPPLY A MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF ENGINEER.

MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY CONSTRUCTION COMMENCING.

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 SANITARY SEWER 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.

FINAL APPROVAL

A VIDEO TAPE WILL BE MADE BY THE CONTRACTOR AND SUBMITTED TO THE CITY PRIOR TO THE PROJECT COMMENCING. AFTER THE FINAL INVOICE IS RECEIVED THE SITE WILL BE VIDEO TAPED AGAIN BY THE CONTRACTOR. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT.

COST OF THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

EROSION CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL AND SHALL MEET THE REQUIREMENTS OF 108.04.

DRAWN BY:	CHECKED BY:
S.D.H.	F.P.W.
DATE:	DATE:
8/17/99	8/17/99

AUTUMN RIDGE ESTATES
PHASE III
GENERAL NOTES

D.W.P.
2953 Centre Hill Circle N.W.
Massillon, Ohio 44646
Phone 330-830-9807
Fax 330-830-9807



NALEX
NALEX ENGINEERING, INC.
425 TERRY AVE. N.E.
MASSILLON, OHIO, 44646
PHONE 330-830-1452

REVISIONS:	
DATE	DESCRIPTION

SANITARY / STORM WORK

SANITARY / STORM WORK

THE FOLLOWING CONDUIT TYPES MAY BE USED FOR SANITARY SEWER: 707.44 SDR35, 706.08, 706.03, 706.02 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING CONDUIT TYPES MAY BE USED FOR STORM SEWER WITH MORE THAN (1) ONE FOOT OF COVER: 707.42, 706.08, 706.02, WITH JOINTS AS PER 706.10 OR 706.11.

THE FOLLOWING CONDUIT TYPES MAY BE USED FOR STORM SEWER WITH LESS THAN (1) ONE FOOT OF COVER: 706.02 WITH JOINTS AS PER 706.10 OR 706.11

CONNECTION TO EXISTING SEWERS

CONSTRUCTION OF THE NEW SEWER SHALL BE SCHEDULED AND PERFORMED SUCH THAT ALL NEW SEWER IS IN PLACE TESTED AND FOUND READY FOR ACCEPTANCE BEFORE THE ACTUAL CUTTING AND TIEING INTO THE EXISTING SEWER IS PERFORMED.

INTERNAL TELEVISION INSPECTION

ALL SANITARY SEWERS 8" DIAMETER AND LARGER, MUST PASS INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE, INTERNAL INSPECTION VIDEOTAPE TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT. THE VIDEOTAPING PROCEDURE MUST BE IN ACCORDANCE WITH SPECIFICATION SECTION 40.

SANITARY AND STORM LATERAL

ALL NEW LATERAL LOCATIONS TO BE FIELD CHECKED AND LOCATED BY THE CONTRACTOR PRIOR TO BACK FILLING.

LATERALS SHALL BE 6" CONDUIT TYPE B.

THE MINIMUM COVER OVER ALL LATERALS SANITARY OR STORM SHALL BE 4 FEET. LATERAL PRICE SHALL INCLUDE ALL APPURTENANCES NECESSARY

ALL ROOF DRAINS, OR YARD DRAINS, SHALL BE CONNECTED TO THE 6" STORM SEWER LATERAL. IT IS PROHIBITED TO CONNECT ANY CLEAN WATER CONDUIT TO THE SANITARY SEWER (i.e. ROOF DRAINS, FOUNDATION DRAINS, ETC.).

THE FOLLOWING WORK SHALL BE PAID FOR UNDER ITEM 603 6" CONDUIT TYPE B 707.42.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 ITEM.

REVIEW OF SANITARY AND DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY OF MASSILLON AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY OF MASSILLON.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BUT THE CITY OF MASSILLON.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EACH LOT SHALL BE SUPPLIED WITH A SINGLE 6" STORM LATERAL THAT WILL BE INSTALLED FROM THE MAIN TO THE PROPERTY LINE. SAID STORM LATERAL SHALL SE CONNECTED TO FOUNDATION DRAINS, SUMP DRAIN AND WHEN POSSIBLE AS PER ENGINEER'S DIRECTION THE DOWN SPOUT WILL BE CONNECTED.

THE FOLLOWING WORK SHALL BE PAID FOR UNDER ITEM 603 6" STORM LATERAL.

DOWN SPOUTS

ALL DOWN SPOUTS UNABLE TO BE CONNECTED TO THE STORM LATERAL SHALL BE PUT THROUGH THE CURB AS PER ENGINEERS DIRECTION.

CURB OPENING SHALL NOT GREATER THAN A 3 1/2" DIAMETER.

THE WORK ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 609.

ITEM 604. CATCH BASIN NO. 3. 3A

CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 604 EXCEPT THAT THE GRATES SHALL BE NEENAH NO. R-4859-C OR EAST JORDAN NO. 6730-2 OR APPROVED EQUALS.

AIR TESTING OF GRAVITY SANITARY SEWER

ALL NEW SANITARY SEWERS MUST PASS AN AIR TEST. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND COMPLETE THE AIR TEST TO THE SATISFACTION OF THE CITY OF MASSILLON. THE TESTING PROCEDURE MUST BE IN ACCORDANCE WITH SPECIFICATION SECTION APPENDIX 'B' AND GLUMRB SECTION 33.95.

DEFLECTION TESTING OF GRAVITY SANITARY SEWER

ALL NEW SANITARY SEWERS MUST PASS A DEFLECTION TEST. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND COMPLETE THE DEFLECTION TEST TO THE SATISFACTION OF THE CITY OF MASSILLON. THE TESTING PROCEDURE MUST BE IN ACCORDANCE WITH SPECIFICATION SECTION APPENDIX 'C' AND GLUMRB SECTION 33.85.

AIR TESTING OF SANITARY SEWER MANHOLES

ALL NEW SANITARY SEWER MANHOLES MUST PASS AN AIR TEST. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND COMPLETE THE TEST TO THE SATISFACTION OF THE CITY OF MASSILLON. THE TESTING PROCEDURE MUST IN ACCORDANCE WITH SPECIFICATION SECTION APPENDIX 'F' AND GLUMRB SECTION 34.6.

ROAD WORK

ITEM 609. CAST IN PLACE CONCRETE CURB AND GUTTER

ALL COMBINATION CONCRETE CURB AND GUTTER SHALL MEET CITY OF MASSILLON SPECIFICATIONS.

EXCAVATION FOR THE COMBINATION CURB AND GUTTER SHALL BE INCLUDED IN THE LINEAR FOOTAGE COST FOR SAID CURB AND GUTTER ALONG WITH ALL GRANULAR BEDDING, BACK FILLING AND CONCRETE CURB PLACEMENT ALONG WITH ALL APPURTENANCES ARE TO BE INCLUDED IN ITEM 609.

IF THE CONTRACTOR EXCAVATES DEEPER THAN NECESSARY THAN THE CONTRACTOR SHALL PLACE AT HIS EXPENSE CRUSHED BANK RUN AND TAMP TO THE SATISFACTION OF THE CITY'S INSPECTOR PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER IS CONSTRUCTED.

THE CURB SHALL BE BACK FILLED IMMEDIATELY AFTER THE CURB HAS BEEN IN PLACE FOR 48 HOURS

UNSUITABLE SOIL

IF SUB GRADE IS UNSUITABLE, THE CONTRACTOR SHALL EXCAVATED AND REPLACE SUCH MATERIAL WITH CRUSHED BANK RUN OR OTHER APPROVED MATERIAL UNDER THE DIRECTION OF THE CITY'S INSPECTOR.

SAID APPROVED FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM LABORATORY DRY WEIGHT BEFORE ANY ADDITIONAL LAYERS SHALL BE PLACED. THE CONTRACTOR SHALL BE PAID FOR SAID ADDITIONAL BACK FILL AND EXCAVATION.

THE ABOVE WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY'S INSPECTOR PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER.

MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON THE PLAT.

ITEM 407. TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 408. BITUMINOUS PRIME COAT

THE RATE OF APPLICATION OF THE 408 PRIME COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.40 GALLONS PER SQUARE YARD OF PRIME COAT FOR ESTIMATING PURPOSES ONLY.

WATER LINE

WATER LINES

ALL WATER LINES AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CONSUMERS OHIO WATER COMPANY SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF ALL WATER MAINS AND THE SERVICE CONNECTIONS FROM ALL 2" WATER MAINS. CONSUMER OHIO WATER COMPANY WILL BE RESPONSIBLE FOR CONSTRUCTION OF ALL WATER SERVICE CONNECTIONS FROM 8" WATER MAINS.

WATER MAIN MATERIALS SHALL CONFORM TO AWWA C151 FOR DUCTILE CAST IRON PIPE.

WATER MAIN SHALL BE INSTALLED AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C600.

WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651.

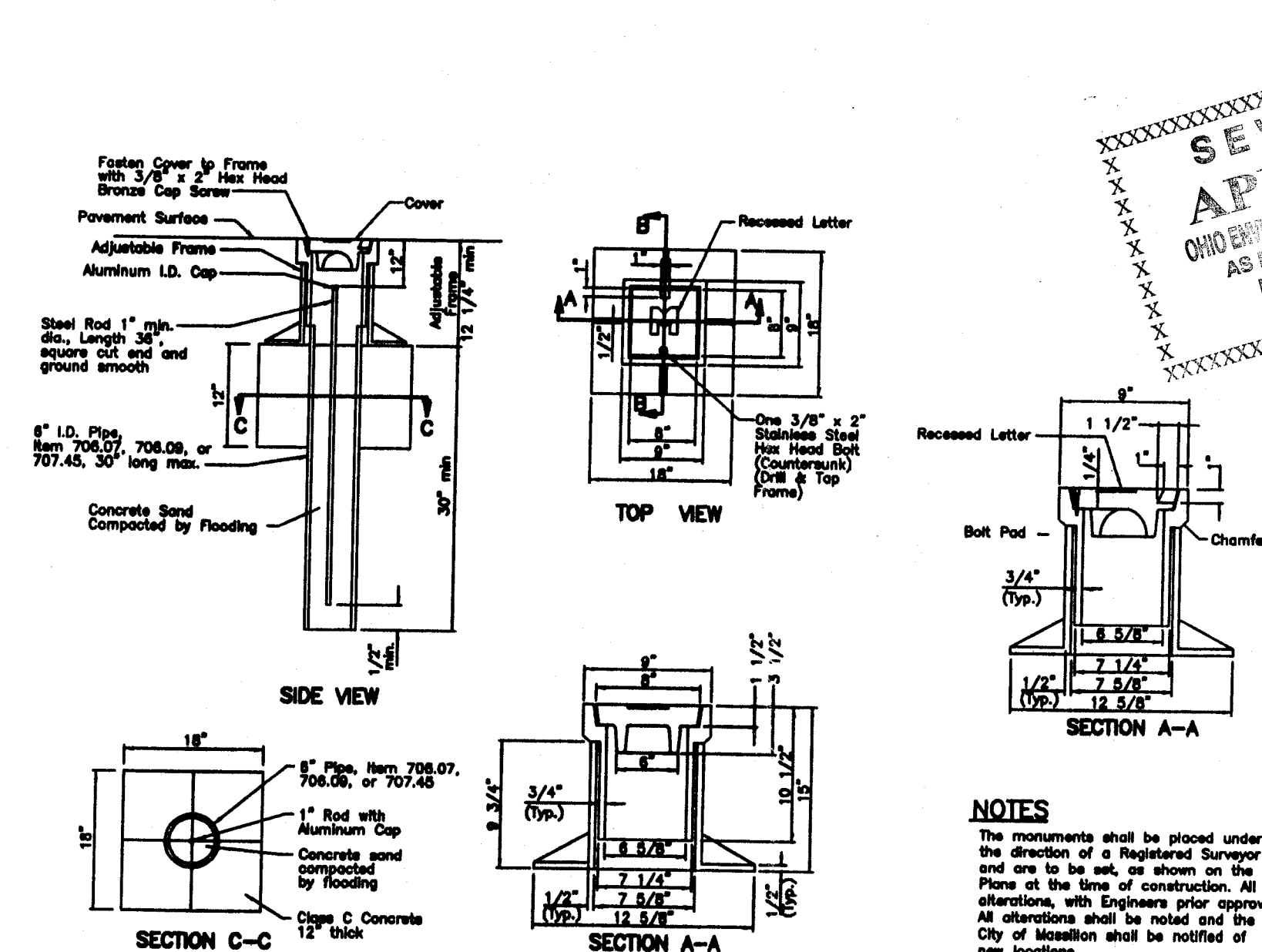
A MINIMUM OF 35 PSI SHALL BE MAINTAINED TO THE CURB STOP DURING NORMAL OPERATION CONDITIONS.

BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE CITY OF MASSILLON MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES AND HIGHER.

WATER LINE CLEARANCE

THE CONTRACTOR MUST CONSTRUCT ALL WATER LINES AND WATER SERVICE LINES SUCH THAT A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN SAID WATER LINES AND THE SANITARY SEWER. THE HORIZONTAL CLEARANCE SHALL BE A MINIMUM OF 10'.

THE TOTAL VERTICAL CLEARANCE BETWEEN THE STORM SEWER AND SAID WATER LINES SHALL BE NO LESS THAN 12".



ADJUSTABLE CENTERLINE MONUMENT DETAILS

AUTUMN RIDGE ESTATES

PHASE III
GENERAL NOTES

D. W. P.

2953 Corrie Hill Circle N.W.
Massillon, Ohio 44646
Phone 330-830-8607
Fax 330-830-8607

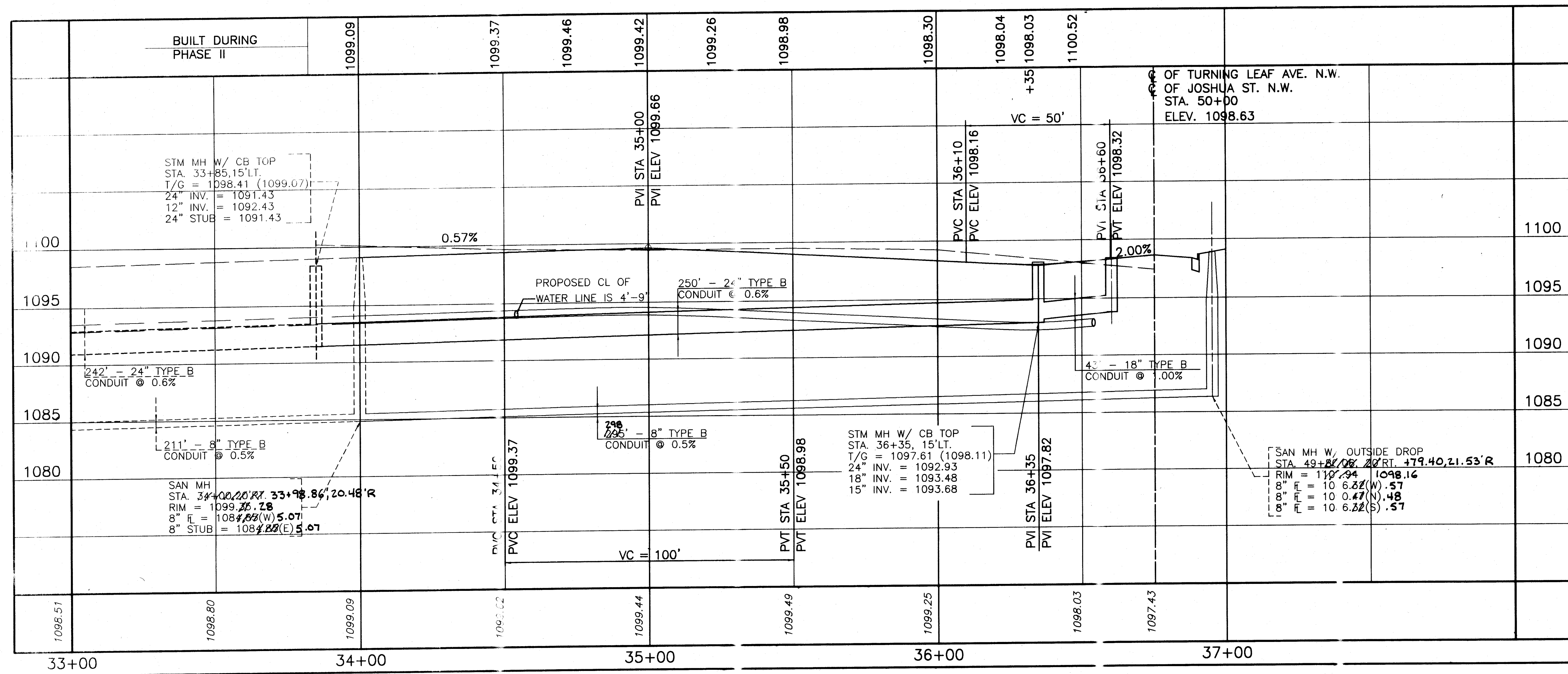
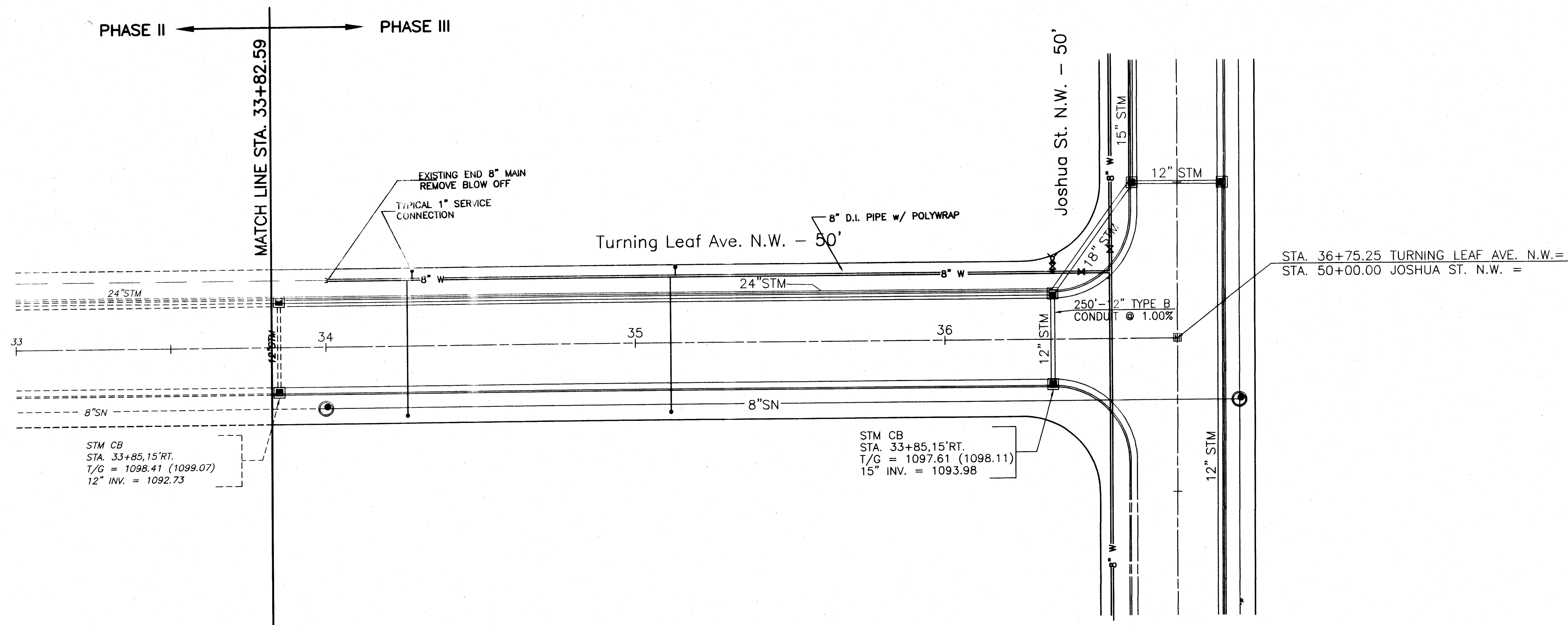
NALEX

NALEX ENGINEERING, INC.
425 TERRY AVE. N.E.
MASSILLON, OHIO, 44646

PHONE 330-830-1452

REVISIONS:

DATE	DESCRIPTION
11/2/2000	TEST NOTES



20 0 20

HORIZONTAL SCALE IN FEET

DRAWN BY: FPW CHECKED BY: SDH

DATE: 12/1/00 DATE: 12/1/00

0 5 10 15 20

VERTICAL SCALE IN FEET

AUTUMN RIDGE ESTATES

PHASE III

TURNING LEAF AVE. NW PLAN AND PROFILE

D. W. P.

2953 Carrie Hill Circle N.W.
Massillon, Ohio 44846
Phone 330-830-5607 Fax 330-830-5607

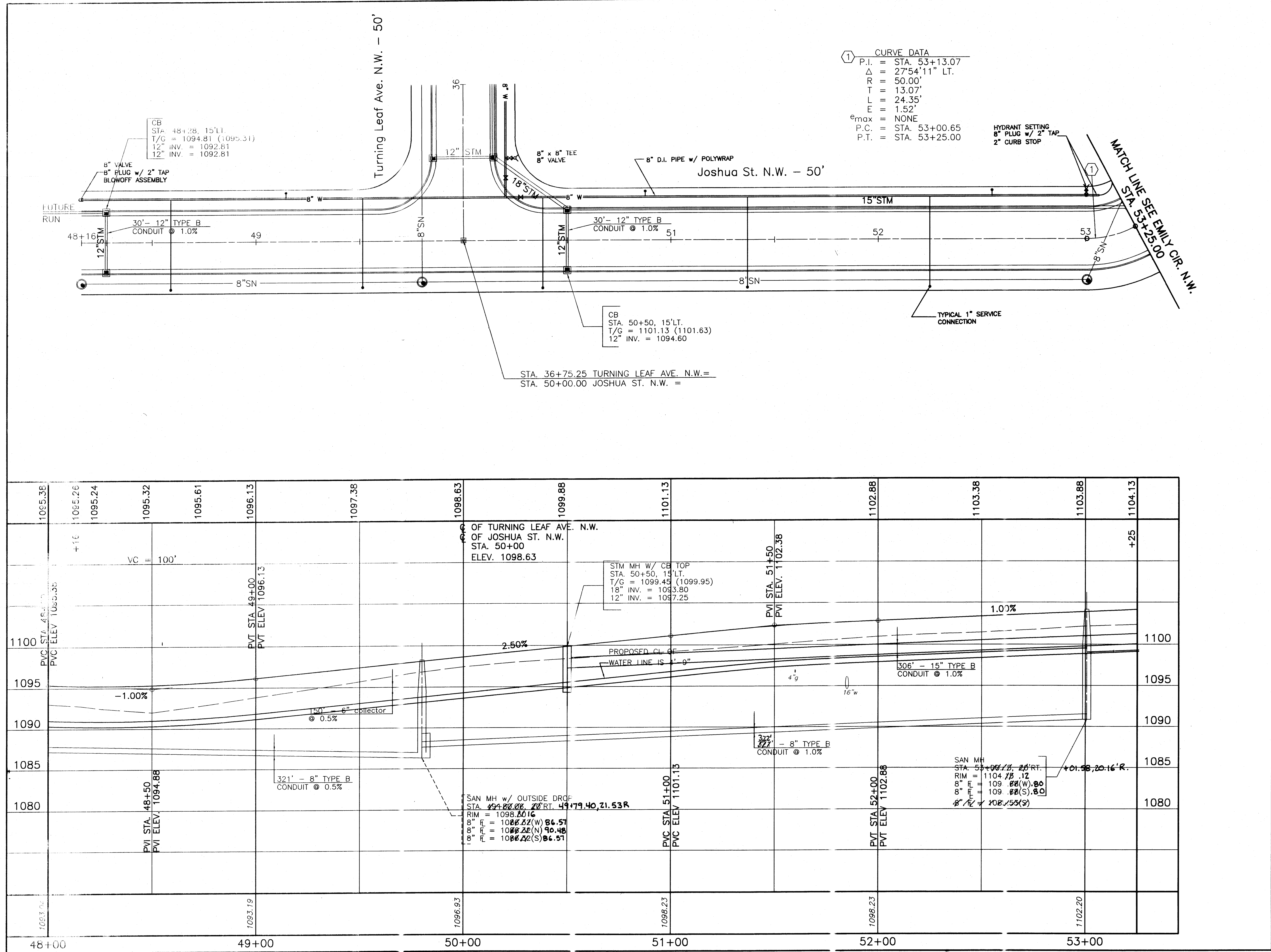
NALEX

NALEX Engineering
425 Terry Ave. N.E. ~ Massillon, Ohio, 44846
Phone 330-830-1452 ~ Email: NALEx@nalex.com

REVISONS:	
DATE	DESCRIPTION
12/12/00	Lower Profile

2
5

995001



OWNER:

D.W.P.

2953 Carrie Hill Circle N.W.
 Atlanta, Georgia 30328
 Phone 330-830-6607
 Fax 330-830-6607

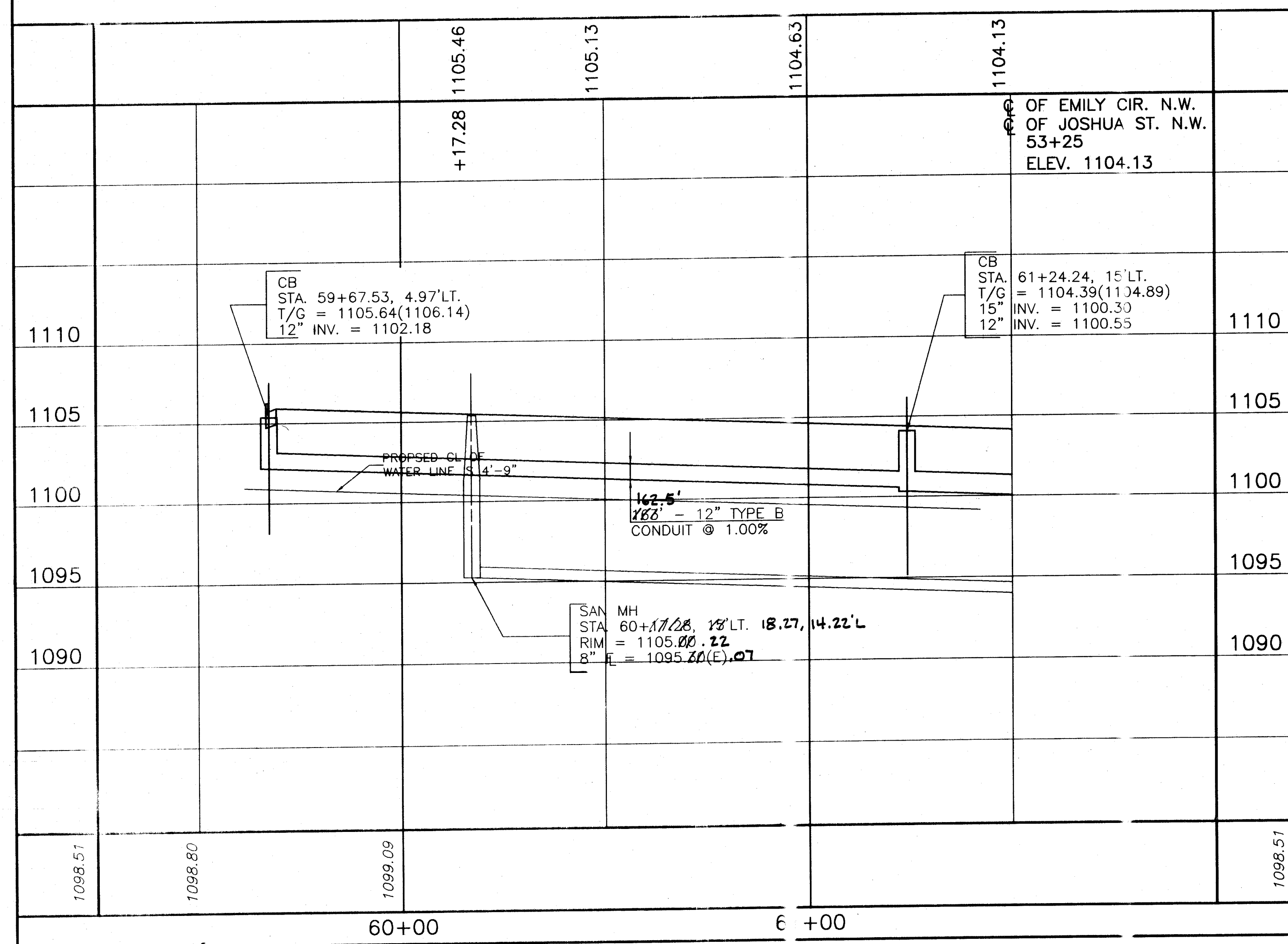
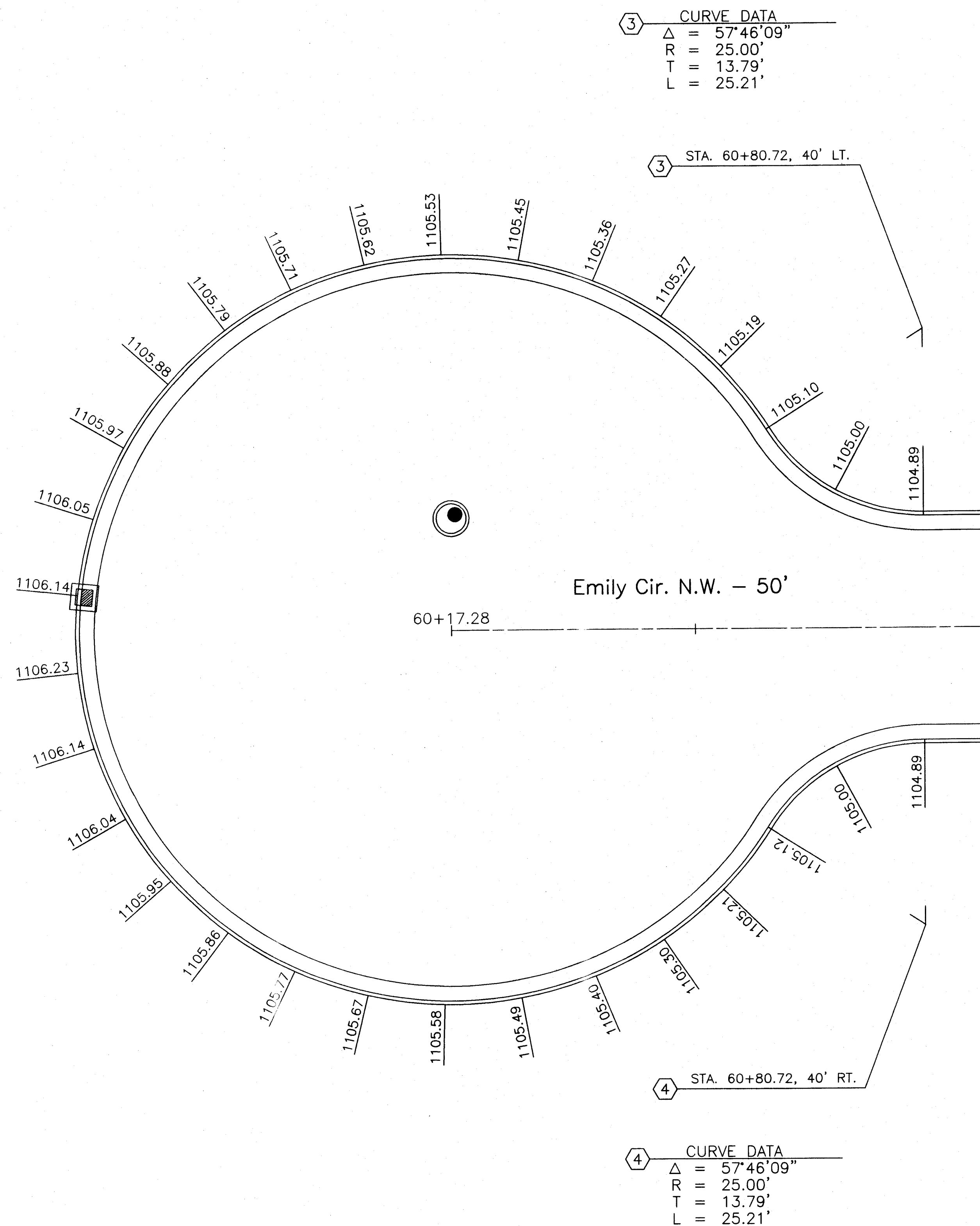
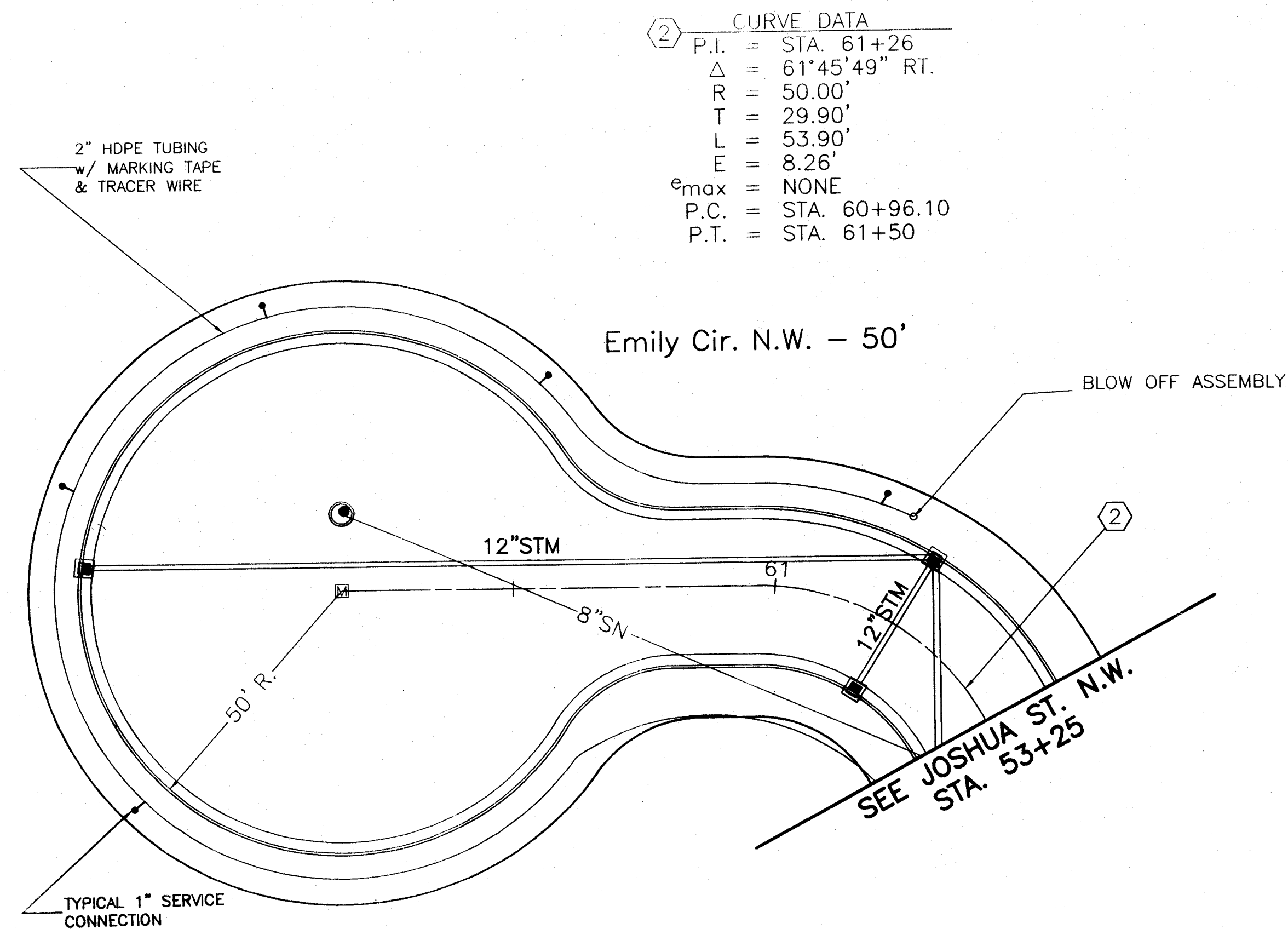
MALEX

MALEX Engineering, Inc.
 425 Terry Ave. N.E.
 Atlanta, Georgia 30312
 Phone 330-830-1452 ~ Email MALEX@malex.com

REVISIONS:

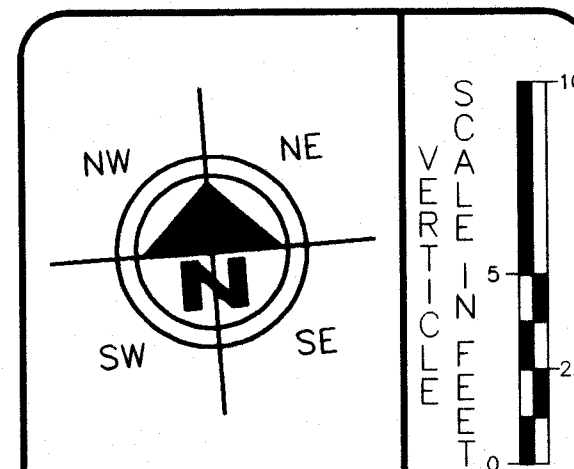
DATE	DESCRIPTION
12/12/00	Lower Profile

3 / 5



CUL-DE-SAC DETAIL

1=10
ALL ELEVATION ARE AT TOP OF CURB



HORIZONTAL
SCALE IN FEET

DRAWN BY: FPW
CHECKED BY: SDH
DATE: 8/1/00
DATE: 8/4/00

AUTUMN RIDGE ESTATES
PHASE III
EMILY CIR. NW PLAN AND PROFILE

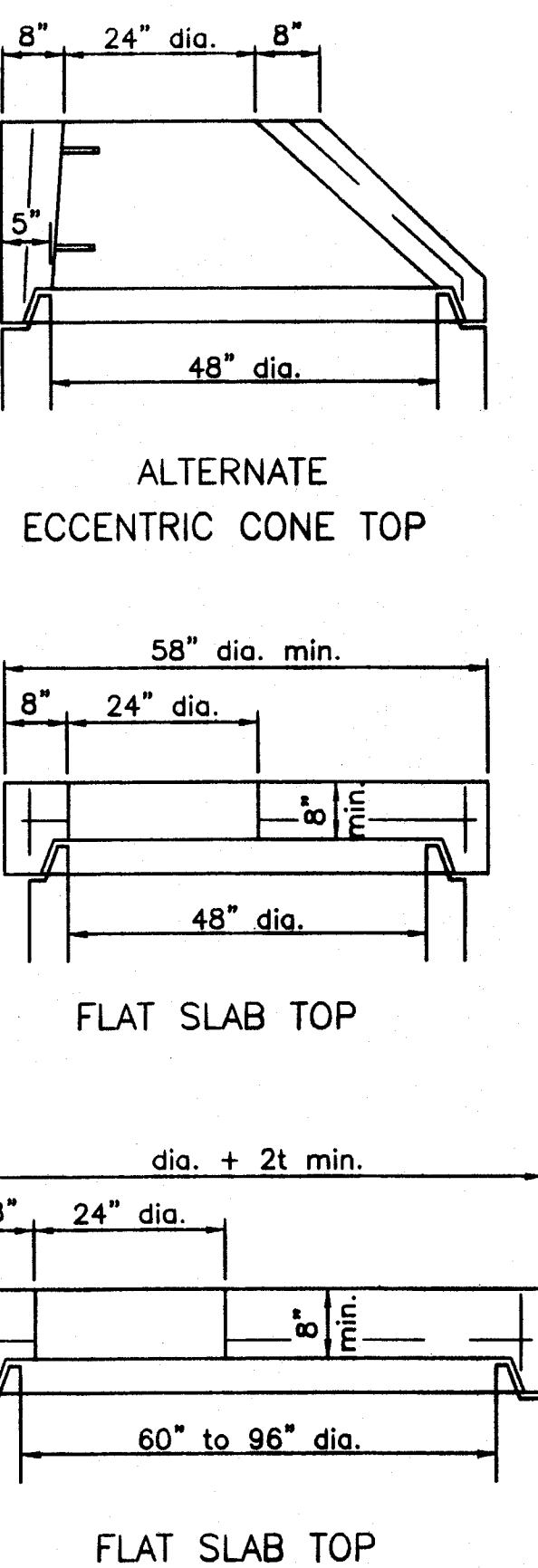
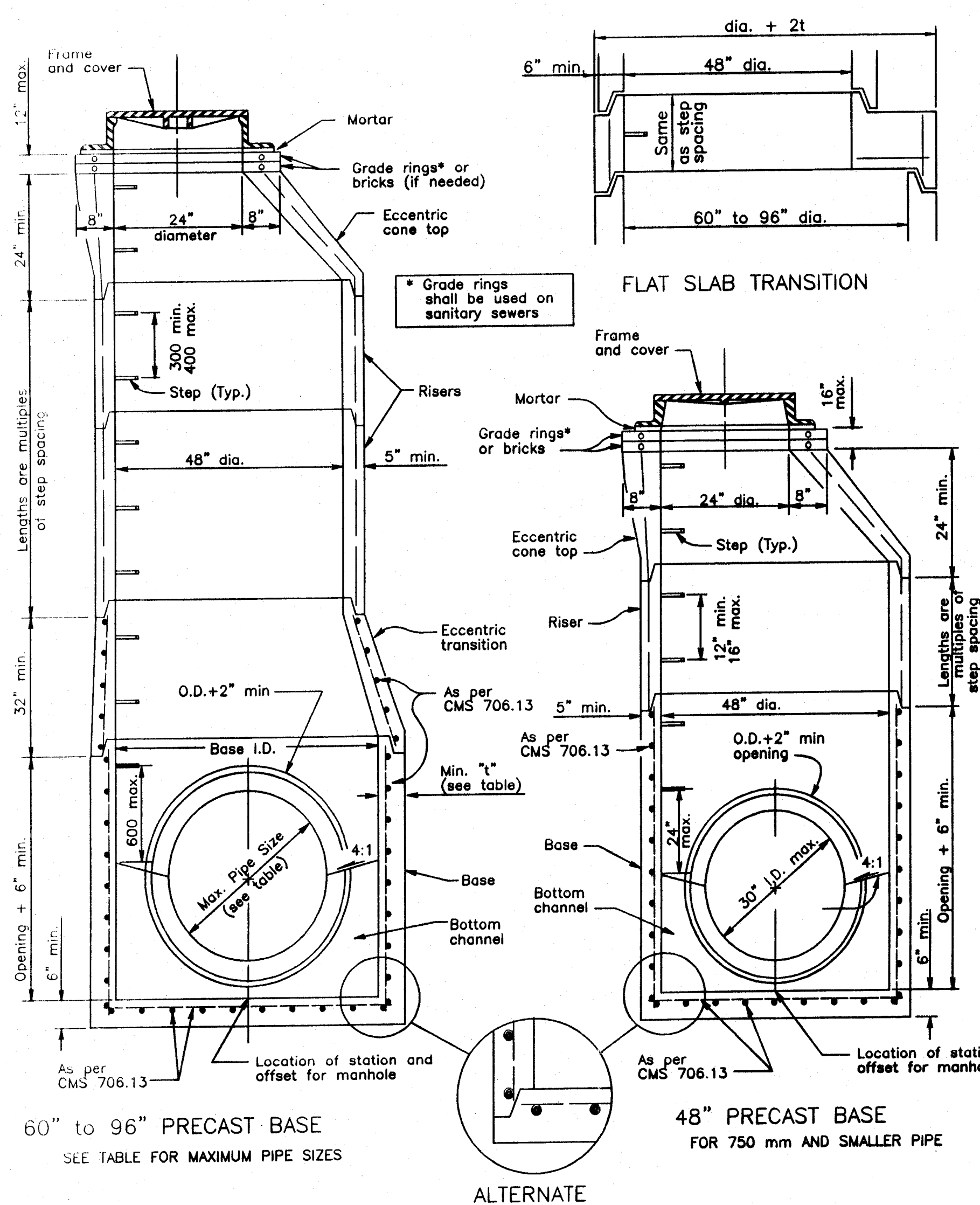
D. W. P.

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Massillon, Ohio 44646
Phone 330-850-8607
Fax 330-850-8607

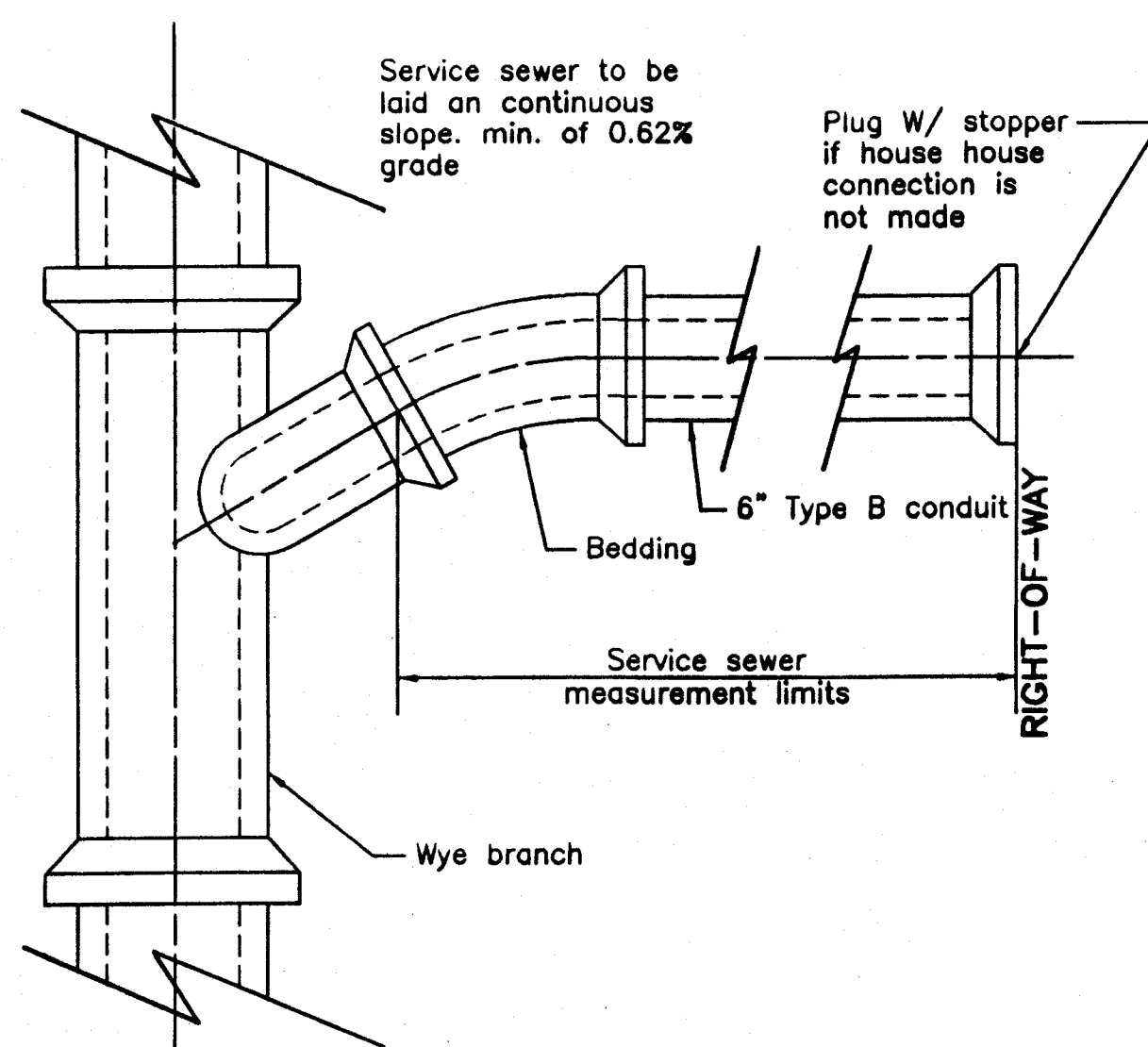
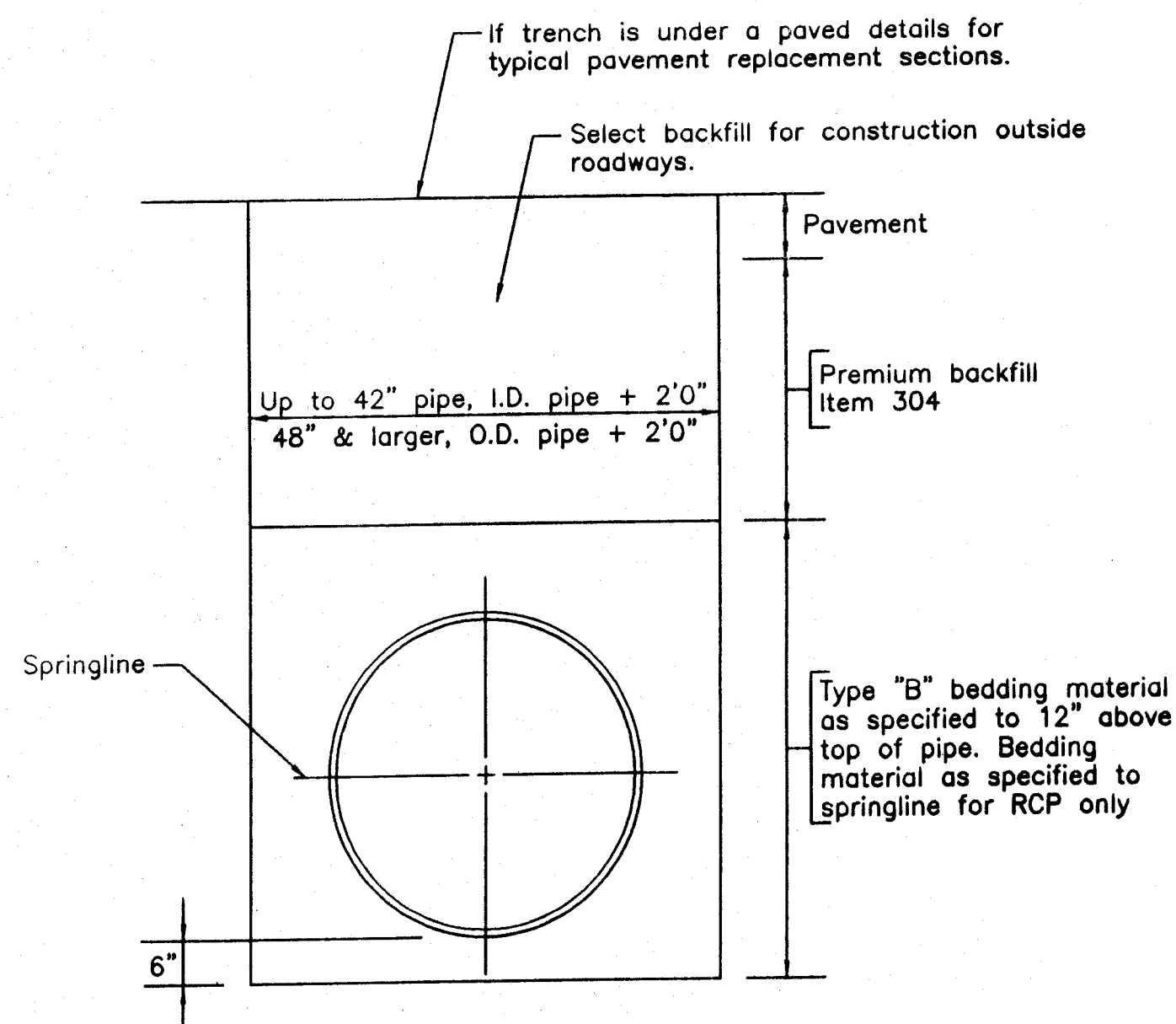
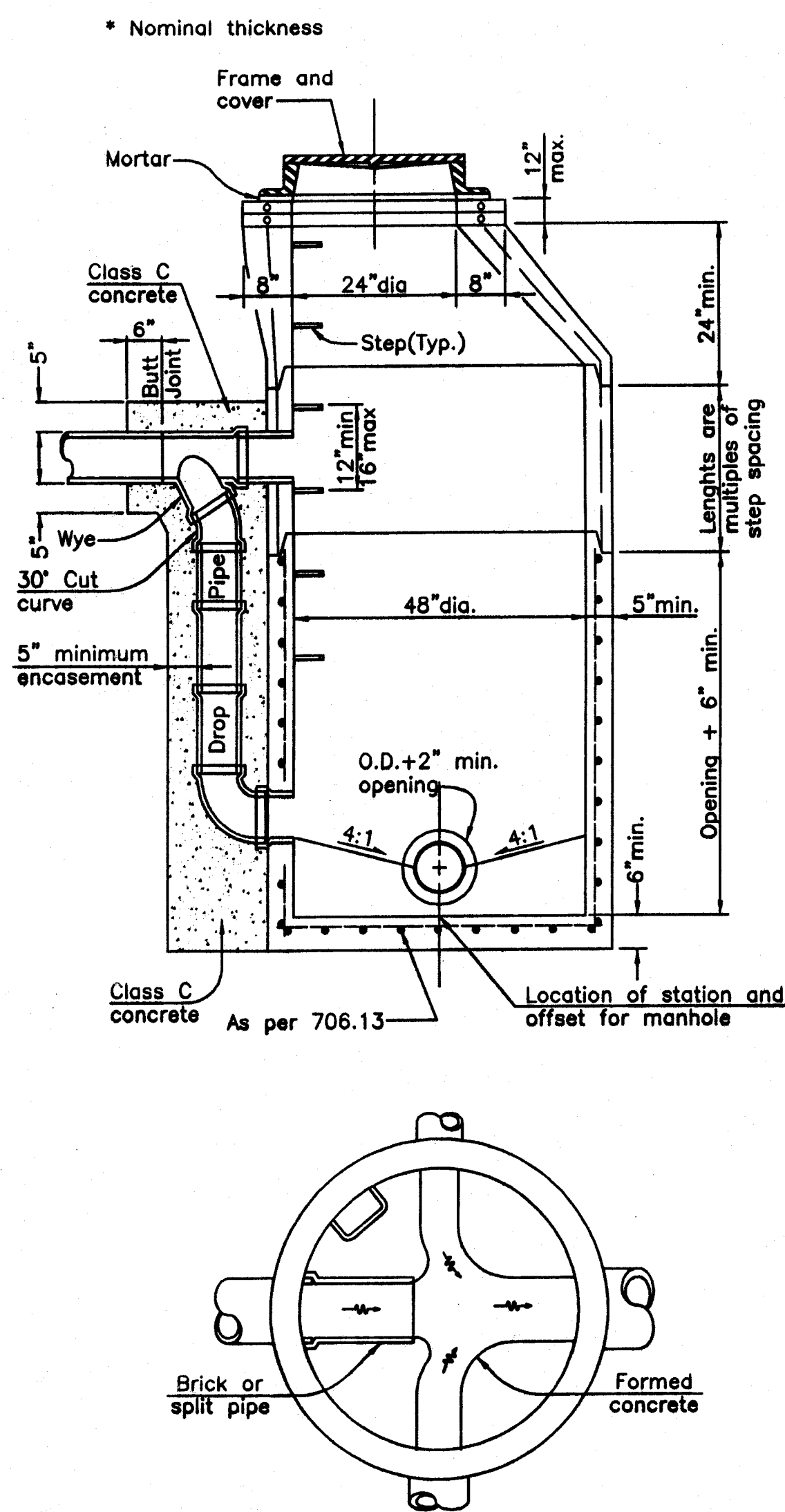
NALEX

NALEX Engineering
425 Terry Ave. N.E. ~ Massillon, Ohio, 44646
Phone 330-830-1452 ~ Email NASHENG@aol.com

REVISIONS:
DATE DESCRIPTION
12/12/00 Lower Profile



Base I.D.	Min. "t"	Max. Pipe Size
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	60"



NOTES

GENERAL: With normal soil and site conditions this standard precast manhole may be used for any required manhole depth.

Sections of the precast manhole shall be cast and assembled with either all tongue or all groove ends up. Lift holes may be provided in each section for handling.

TOP AND TRANSITION (OR REDUCER): This section shall be a flat slab unless an eccentric cone is specified.

BASE: Manhole No. 3 is shown with a monolithic floor and riser which may be cast in one or two operations. A permissible alternate is to cast and ship the floor and barrel separately. Openings for inlet and outlet pipes shall be provided, either when

Bottom channels may be formed of concrete, precast in the base or field constructed as shown

RISER SECTIONS: Openings for 18" and smaller inlet pipes may be either prefabricated, or cut in the field provided the sides of the pipe at the springline do not project into the manhole.

CONNECTIONS: Connections between precast manhole sections and pipes on sanitary sewers may be sealed with resilient connectors conforming to ASTM C 923.

JOINT SEAL: Seal between precast manhole sections on sanitary sewers shall be resilient and flexible gasket joints per CMS 706.11.

MATERIALS: Materials for bases and other precast sections, including reinforcement not specified herein, shall comply with the requirements of CMS 706.13.

DROP PIPE: When specified on the plans, drop pipe shall be constructed as shown on MH-3.1M.

STEPS, FRAMES AND COVERS: Shall comply with the requirements set forth on MH-1.1M.

