

AUTUMN RIDGE ESTATES PHASE IV

CITY OF MASSILLON

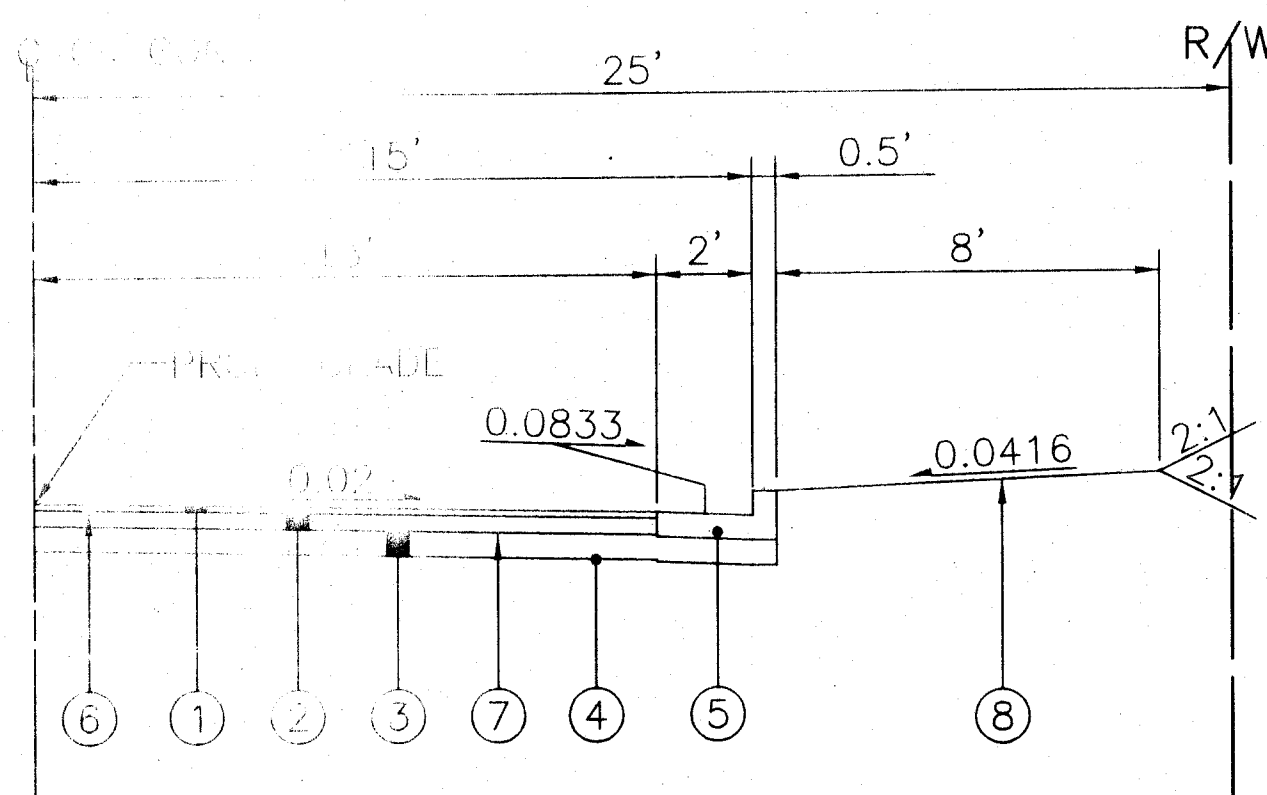
STARK COUNTY, OHIO

PART OF OUT LOT 502

24 LOTS

INDEX OF SHEETS:

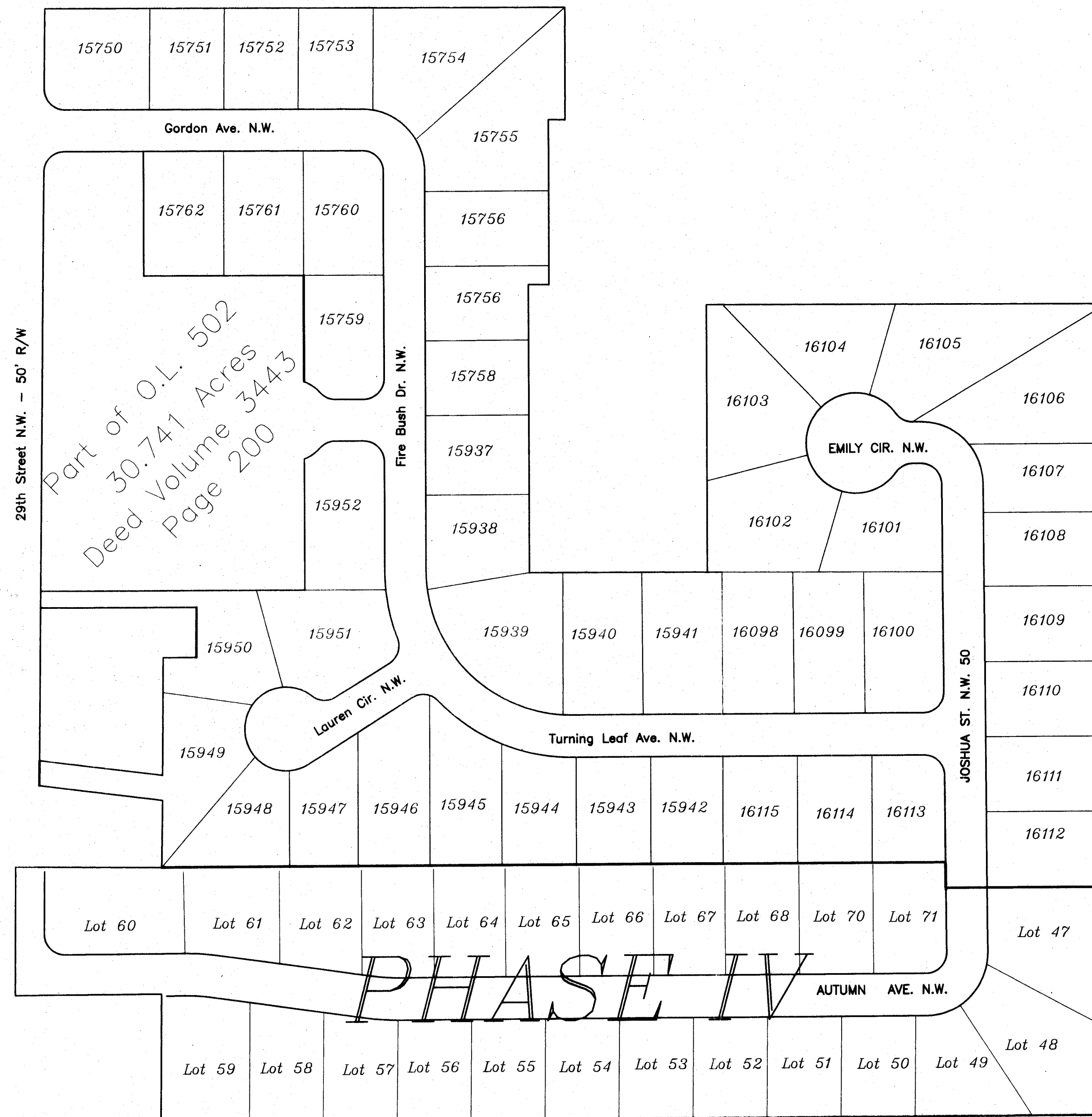
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PHASE 1 - PROPOSED TYPICAL SECTION
SYMMETRICAL

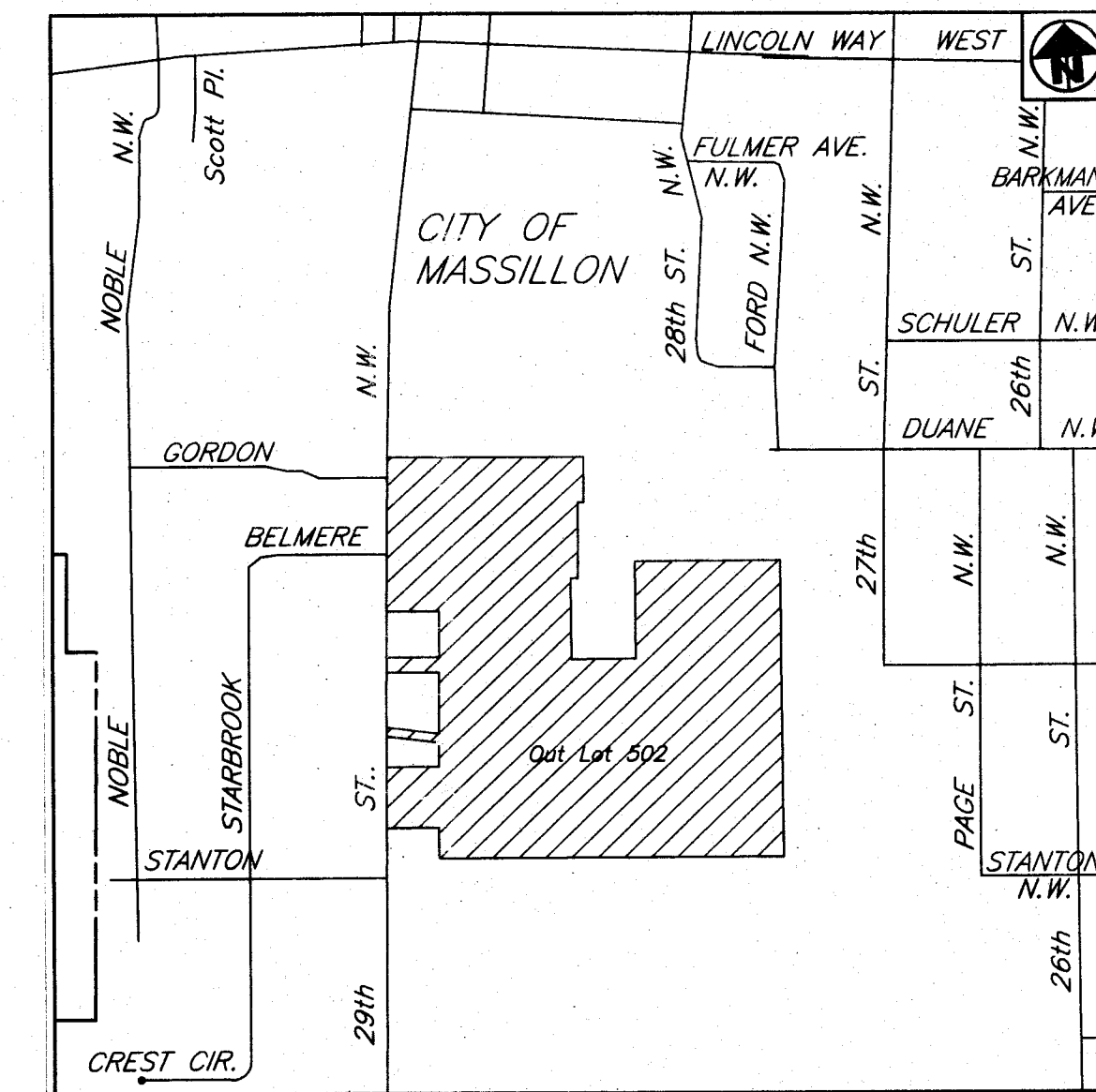
PROPOSED LEGEND

- ① - ITEM 404-1 1/2" ASPHALT CONCRETE
- ② - ITEM 501-4" BITUMINOUS AGGREGATE BASE
- ③ - ITEM 304-6" AGGREGATE BASE
- ④ - ITEM 203-13-COMPACTED SUBGRADE
- ⑤ - ITEM 609-MASSILLON STANDARD CURB AND GUTTER
- ⑥ - ITEM 407-TACK COAT
- ⑦ - ITEM 408-PRIME COAT
- ⑧ - ITEM 609-SEEDING AND MULCHING



PHASE MAP
SCALE IN FEET

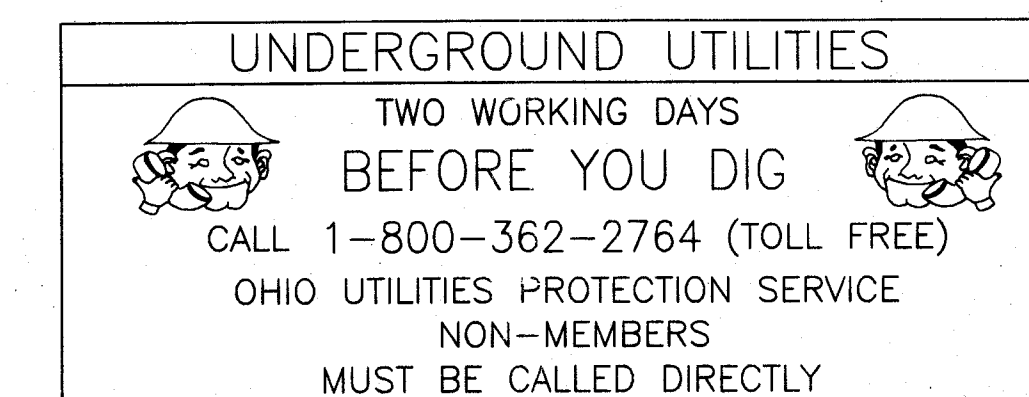
Total L.F. of Street Centerline This Phase 1254
Total L.F. of Sanitary Sewer Pipe This Phase 1073
Total L.F. of Storm Sewer Pipe This Phase 1375



VICINITY MAP
SCALE IN FEET

CONVENTIONAL SIGNS

RIGHT OF WAY EXISTING: ———, PROPOSED: ———
COUNTY LINE
TOWNSHIP LINE
CORPORATION LINE
FENCE LINE EXISTING: x x x, PROPOSED: x x x
GUARDRAIL EXISTING: o o o, PROPOSED: o o o
MANHOLES EXISTING: ○, PROPOSED: ●, ADJUSTED: ○
CATCH BASINS EXISTING: □, PROPOSED: ■, ADJUSTED: □
SIGNS 1-POST: +, 2-POST: +, 3-POST: +
EXISTING POLES POWER: ⚡, TELEPHONE: ⚡, LIGHT: ⚡, SPAN: ⚡
PROPOSED POLES POWER: ⚡, TELEPHONE: ⚡, LIGHT: ⚡, SPAN: ⚡
EXIST. UTILITIES VALVE: ⚡, HYDRANT: ⚡, METERS: ⚡, GUY: ⚡



PLAN PREPARED BY:
NALEX ENGINEERING INC.

APPROVALS

CITY ENGINEER James J. Benekos 12/8/00
JAMES J. BENEKOS, P.E., P.S. DATE
CONSUMERS OHIO WATER, INC. Donald L. Snyder 12/8/2000
DONALD L. SNYDER DATE

DRAWN BY: S.D.H. CHECKED BY: F.P.W.
DATE: NOV. 2000 DATE: NOV. 2000

AUTUMN RIDGE ESTATES
PHASE IV
TITLE AND TYPICAL SECTION

D. W. P.
2953 Carrie Hill Circle N.W.
Massillon, Ohio 44646
Phone 330-830-6807
Fax 330-830-6807

OWNER:

#02-4570

SEWERAGE
APPROVED
OHIO ENVIRONMENTAL PROTECTION AGENCY
AS EVIDENCED BY COPY OF
LETTER OF APPROVAL
HEREIN ATTACHED

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

REVISIONS:	
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
2600 S. ERIE ST.
MASSILLON, OH 44545
(330) 833-3141

MB OPERATING
104 6TH ST. S.W.
CANTON, OH 44602
(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.

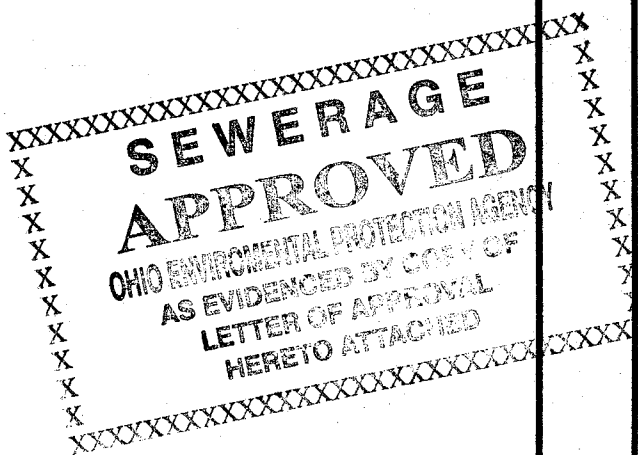
FINAL APPROVAL

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.



AUTUMN RIDGE ESTATES
PHASE IV
GENERAL NOTES

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2953 Corrie Hill Circle N.W.
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Phone 330-830-6607
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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.

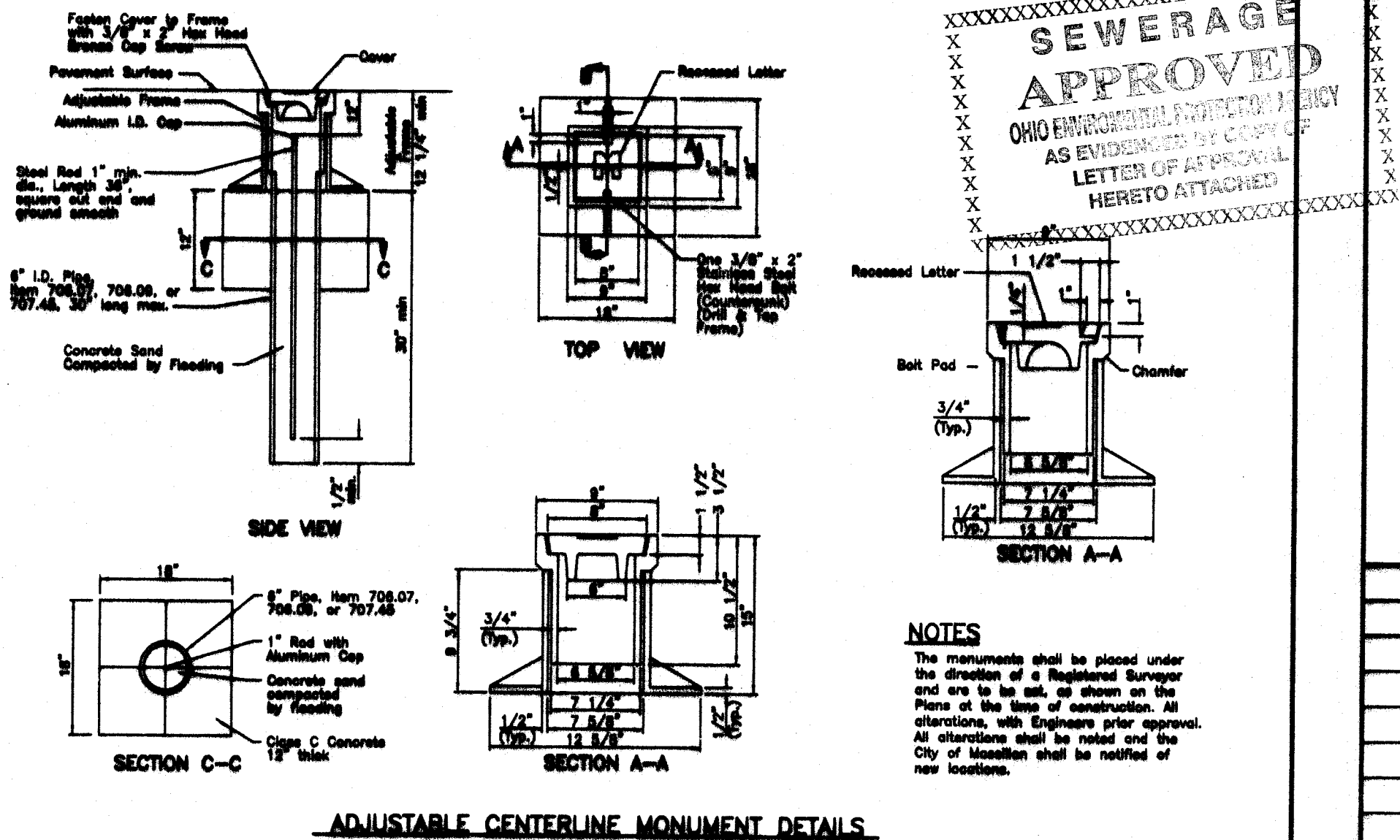
A MINIMUM OF 35 PSI SHALL BE MAINTAINED TO THE CURB STOP DURING NORMAL OPERATION CONDITIONS.

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

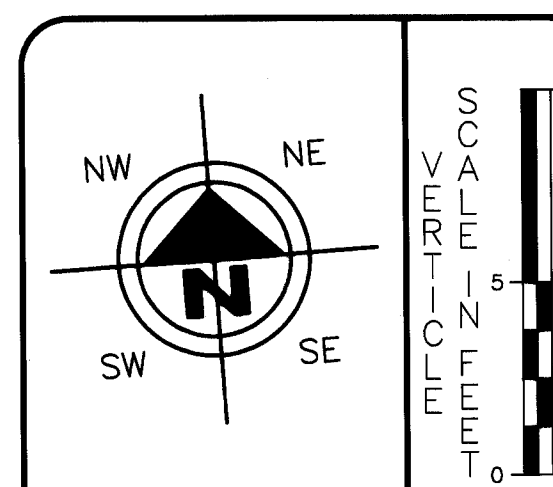
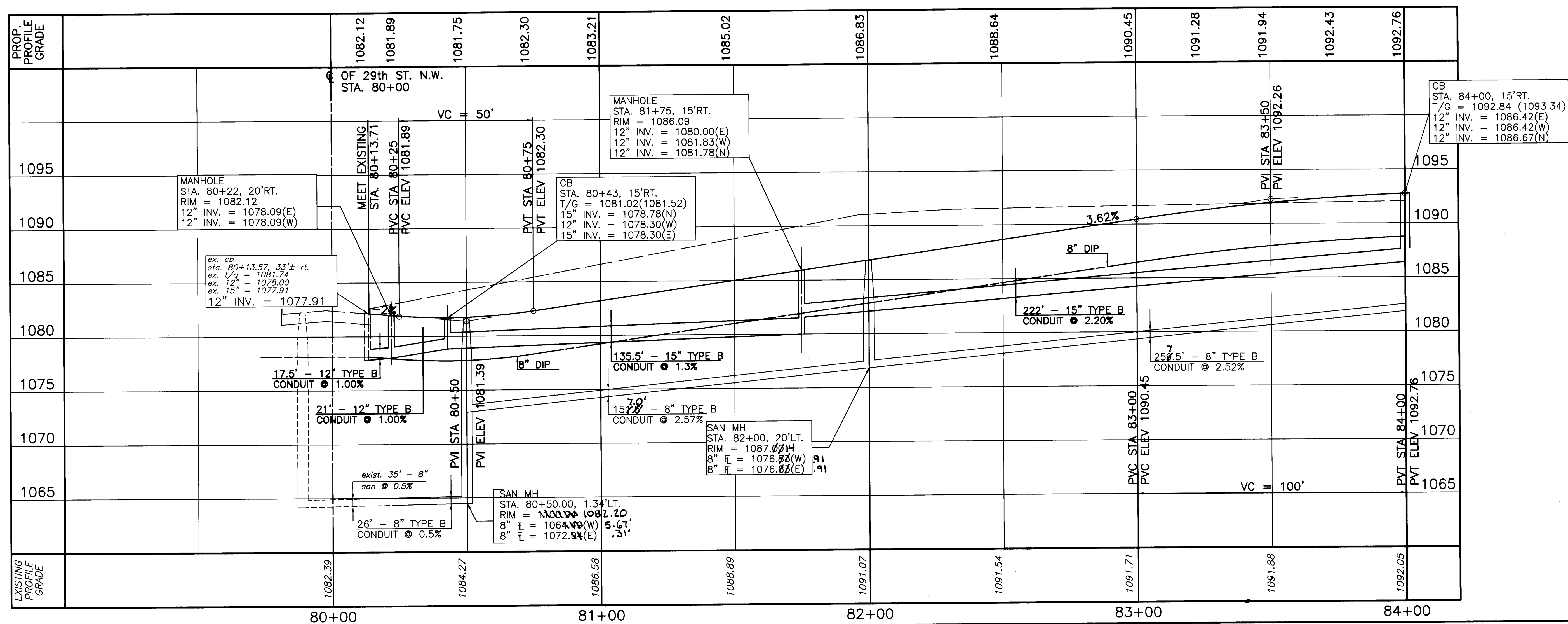
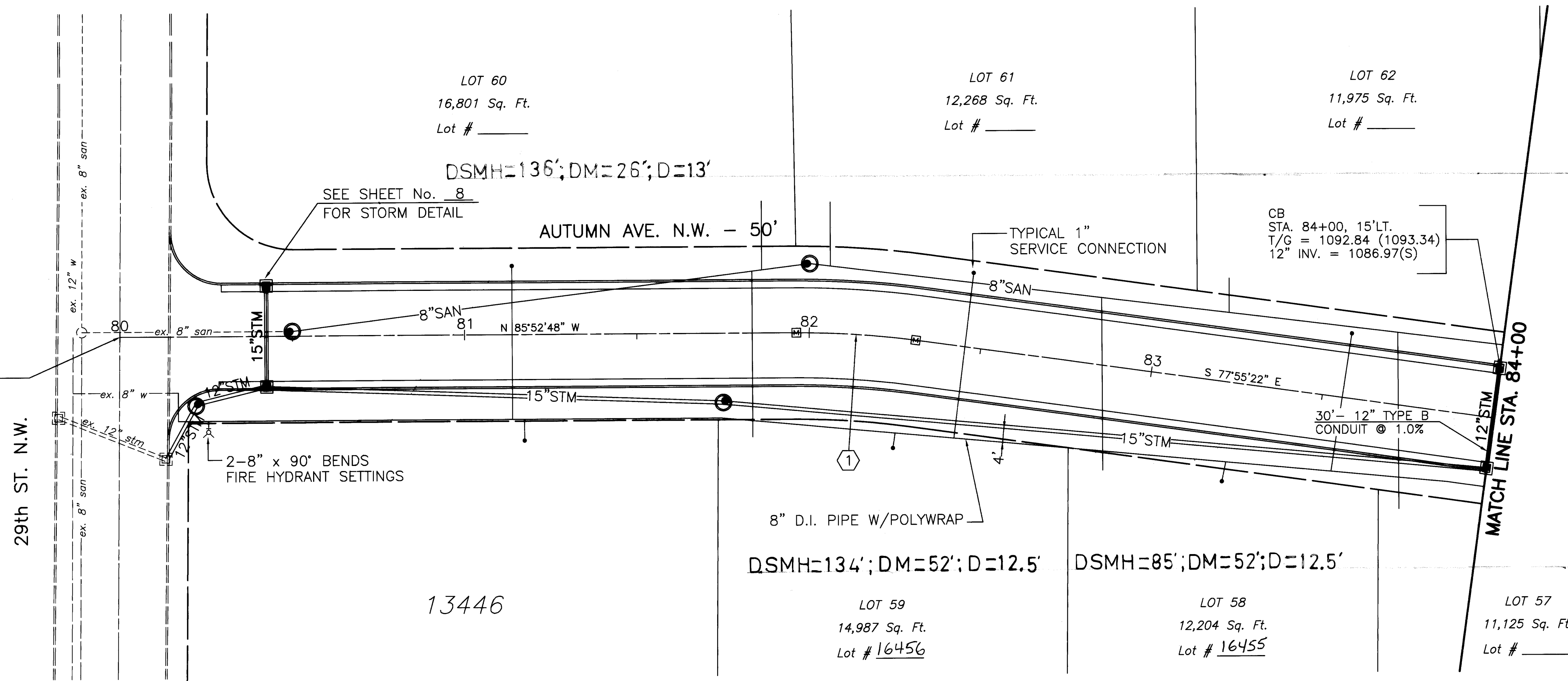
AUTUMN RIDGE ESTATES
PHASE IV
GENERAL NOTES

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PHONE 330-830-1452

REVISIONS:	
DATE	DESCRIPTION

STA. 80+00.00 AUTUMNAL AVE. N.W.=
29th ST. N.W.



HORIZONTAL
SCALE IN FEET

DRAWN BY: FPW	CHECKED BY: SDH
DATE: 11/25/00	DATE: 11/27/00

AUTUMN RIDGE ESTATES

PHASE IV
AUTUMN AVE. N.W. PLAN AND PROFILE (Sta. 80+00 to Sta. 84+00)

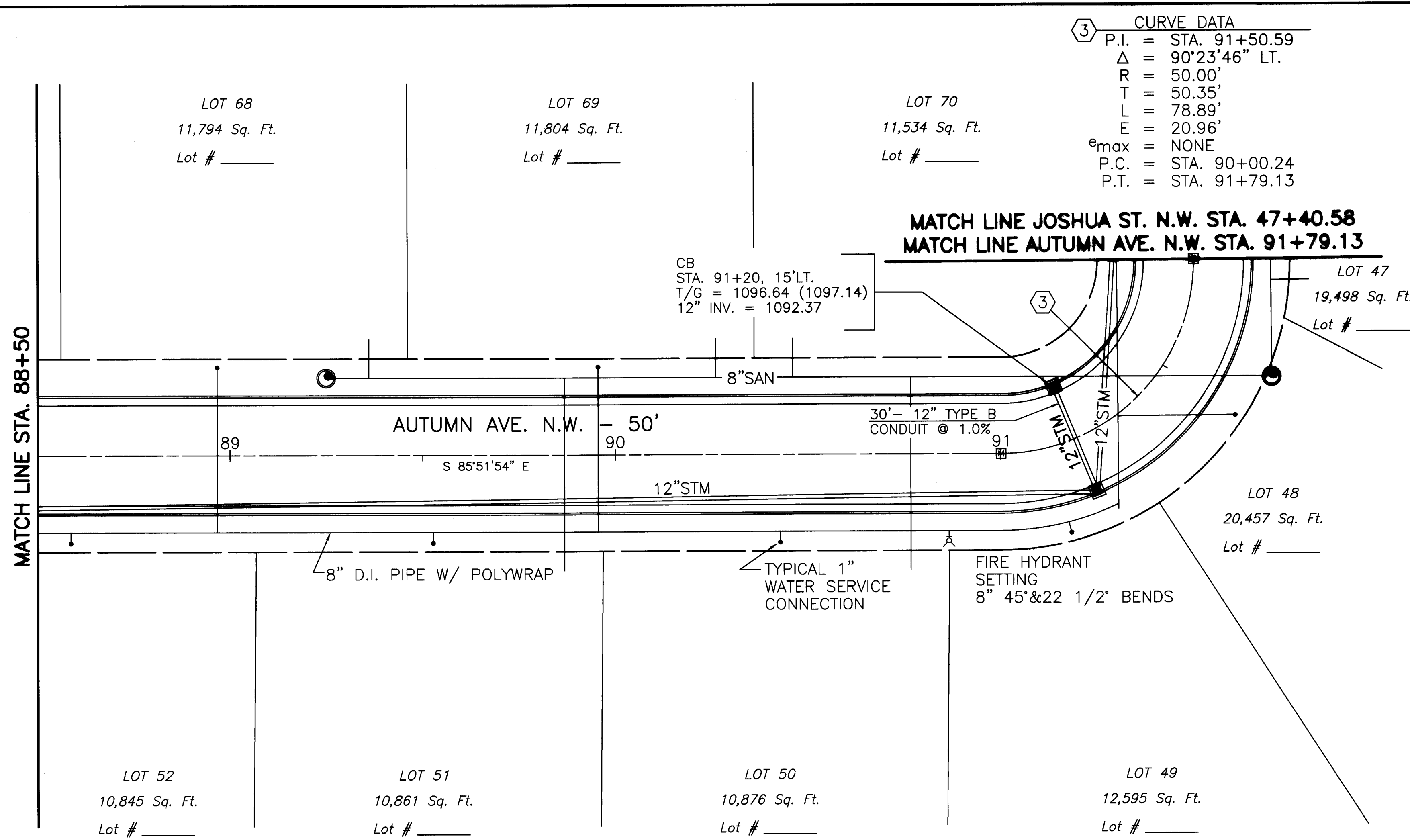
D. W. P.

2953 Carrie Hill Circle N.W.
Massillon, Ohio 44646
Phone 330-830-6607
Fax 330-830-6607

OWNER.

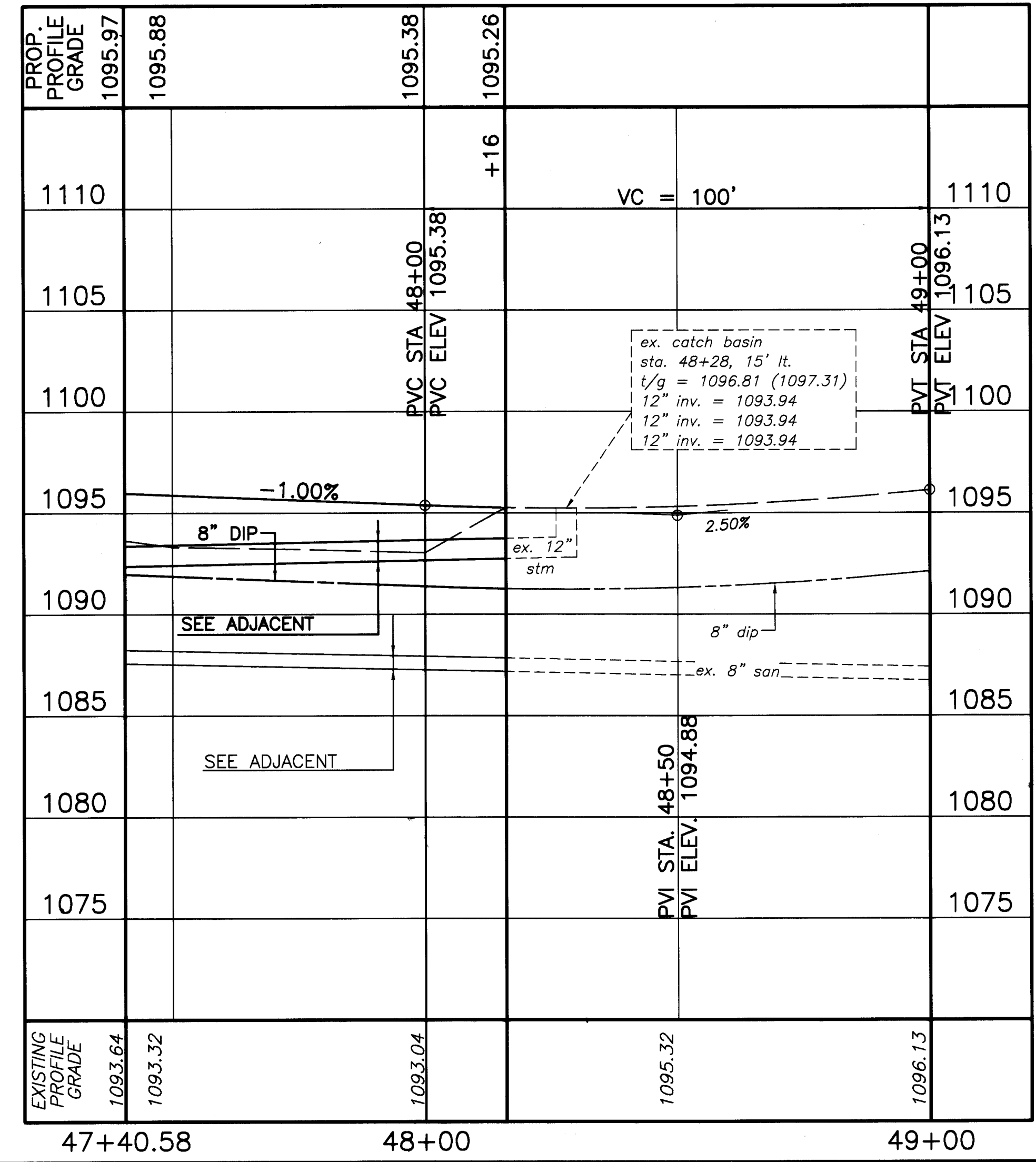
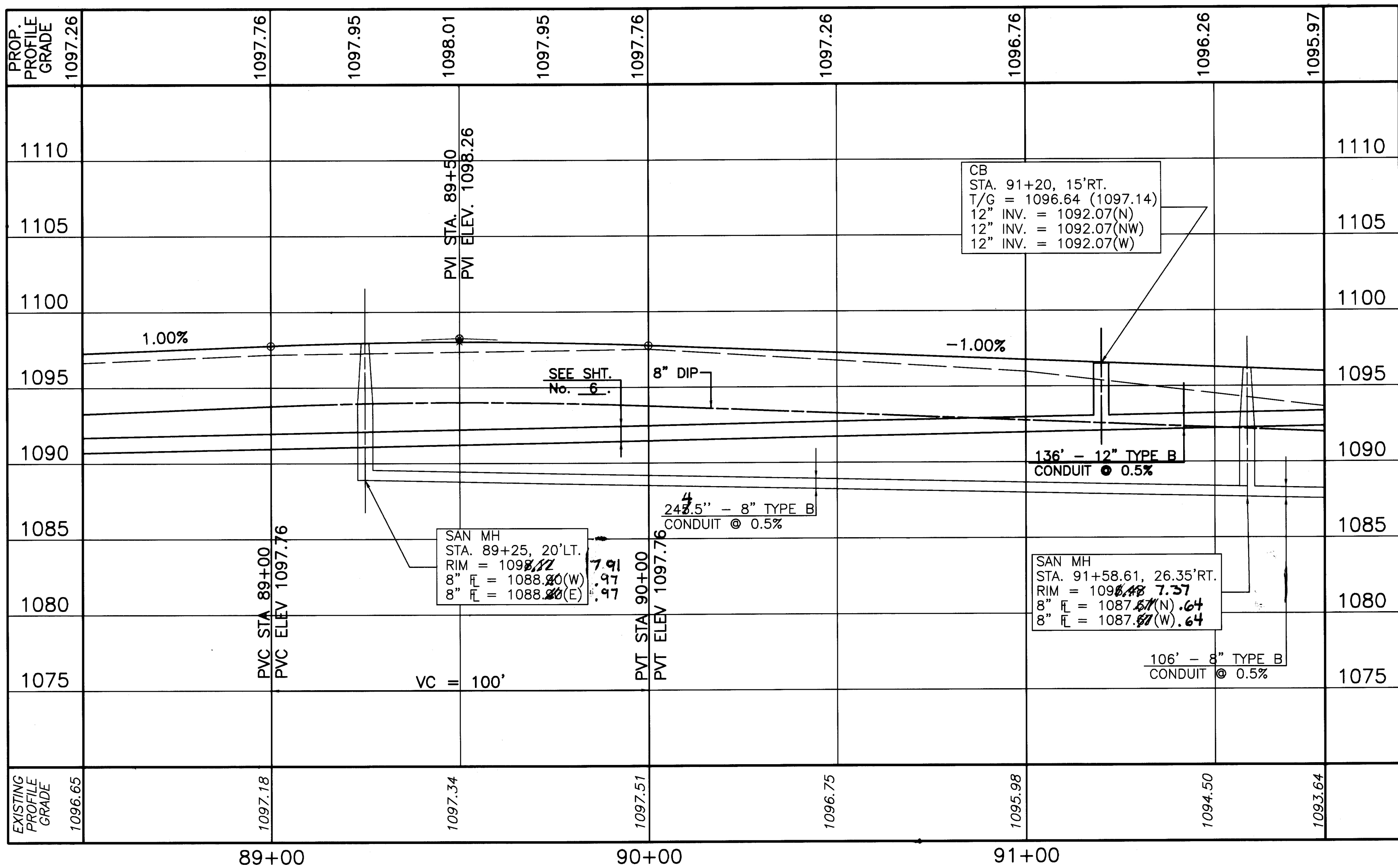
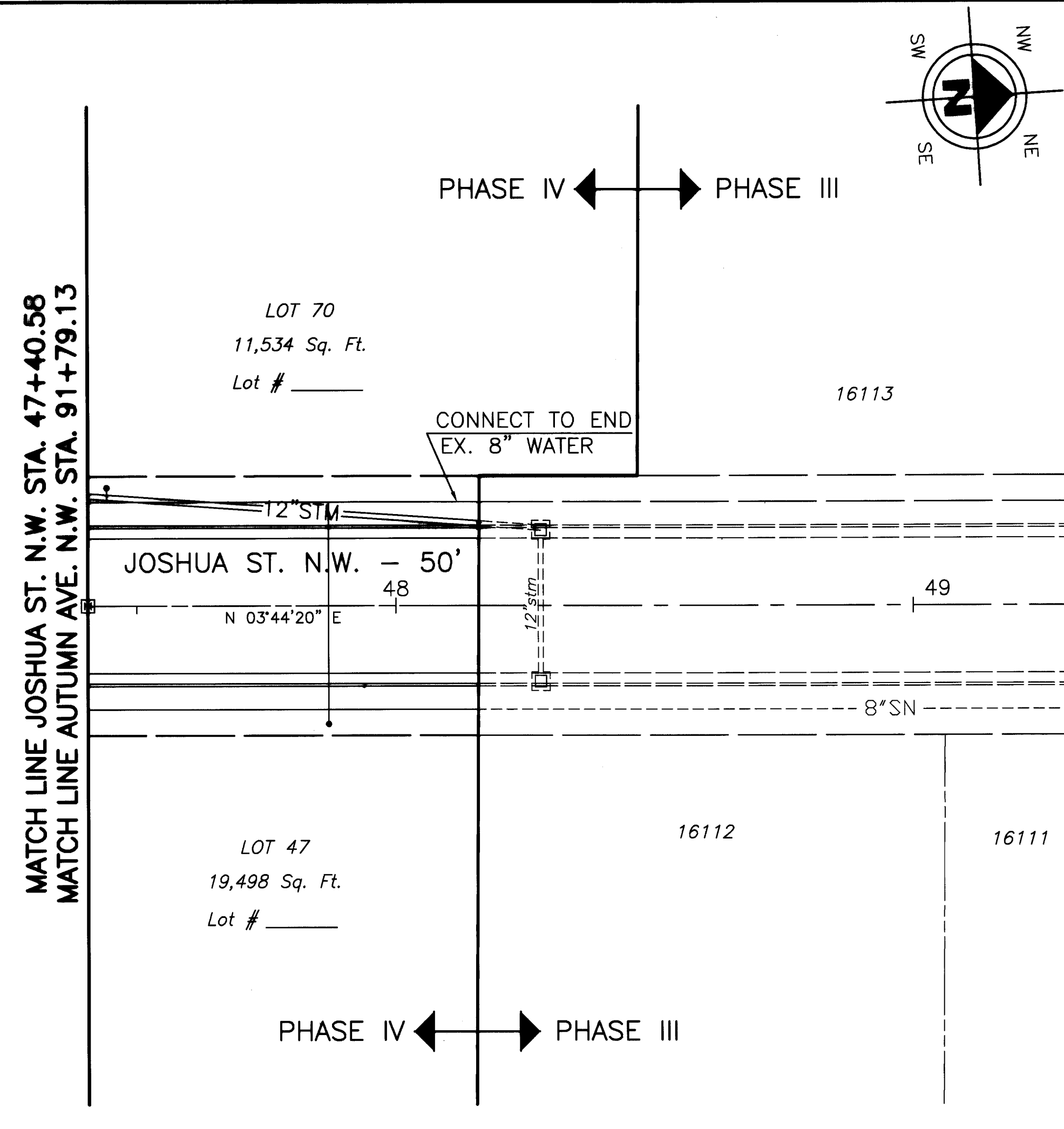
NALEX
NALEX ENGINEERING, INC.
425 TERRY AVE. N.E.
MASSILLON, OHIO, 44646
PHONE 330-830-1452

REVISIONS:	
DATE	DESCRIPTION



CURVE DATA

P.I.	= STA. 91+50.59
Δ	= 90°23'46" LT.
R	= 50.00'
T	= 50.35'
L	= 78.89'
E	= 20.96'
e _{max}	= NONE
P.C.	= STA. 90+00.24
P.T.	= STA. 91+79.13



20 0 20

HORIZONTAL SCALE IN FEET

DRAWN BY: FPW
CHECKED BY: SDH
DATE: 11/25/00
DATE: 11/27/00

20 0 20

HORIZONTAL SCALE IN FEET

DRAWN BY: SDH
CHECKED BY: FPW
DATE: 11/27/00
DATE: 11/25/00

AUTUMN RIDGE ESTATES

PHASE IV
AUTUMN AVE. N.W. PLAN AND PROFILE (Sta. 88+50 to Sta. 91+79.13)
JOSHUA ST. N.W. PLAN AND PROFILE (Sta. 47+40.58 to Sta. 49+16)

D.W.P.

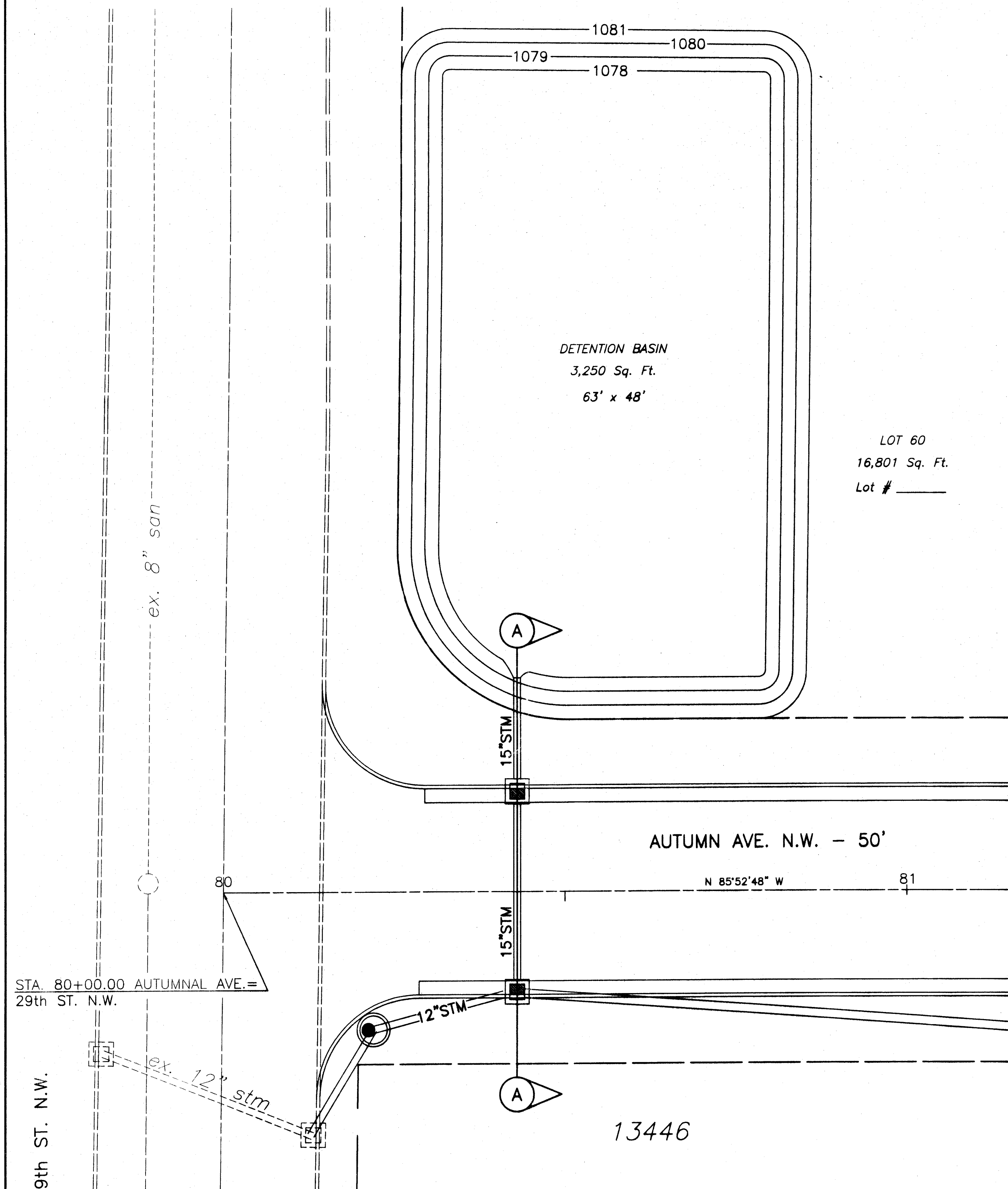
2853 Corrie Hill Circle N.W.
Buckeye, Ohio 43086
Phone 330-830-6607
Fax 330-830-6607

NALEX

NALEX ENGINEERING, INC.
4225 TERRY AVE. N.E.
MASSILLON, OHIO 44846
PHONE 330-830-1452

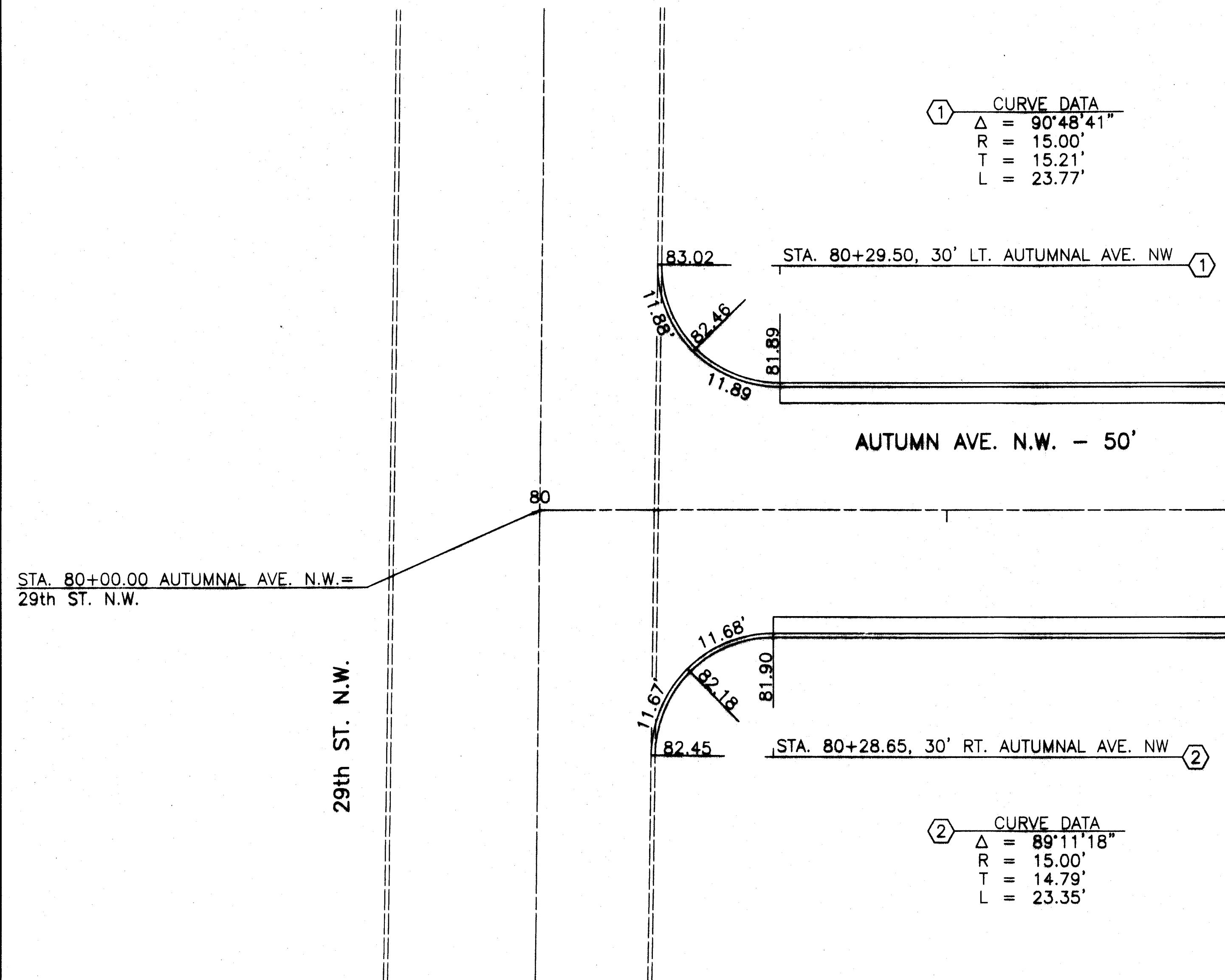
REVISIONS:	
DATE	DESCRIPTION

7
8



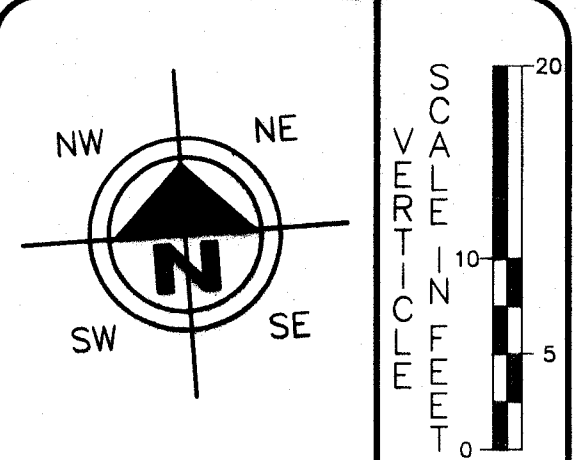
		CB STA. 80+43, 15' LT. T/G = 1081.02 15" INV. = 1078.93 15" INV. = 1078.93	Q OF AUTUMN AVE. N.W. STA. 80+43	CB SEE SHEET No. 5		
1080		STA. 80+43, 31' LT. 15" INV. = 1078.95				1080
1070		16' - 15" TYPE B CONDUIT @ 0.10%				1070
		30' - 15" TYPE B CONDUIT @ 0.50%				

DETAIL A-A



NOTES

- ALL ELEVATION ARE ON THE TOP OF CURB
- () DENOTES PAVEMENT ELEVATION



HORIZONTAL
SCALE IN FEET

DRAWN BY: FPW
CHECKED BY: SDH
DATE: 11/25/00
DATE: 11/27/00

AUTUMN RIDGE ESTATES
PHASE IV
DETAILS

D. W. P.

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REVISIONS:

DATE	DESCRIPTION