

PLANS FOR

W17-3 WATER EXTENSION AND

S17-2 SEWER EXTENSION

TO GREENE COUNTY REGIONAL AIRPORT

140 N VALLEY ROAD
GREENE COUNTY
XENIA, OHIO 45385

GS&P PROJECT NO. 42687.01

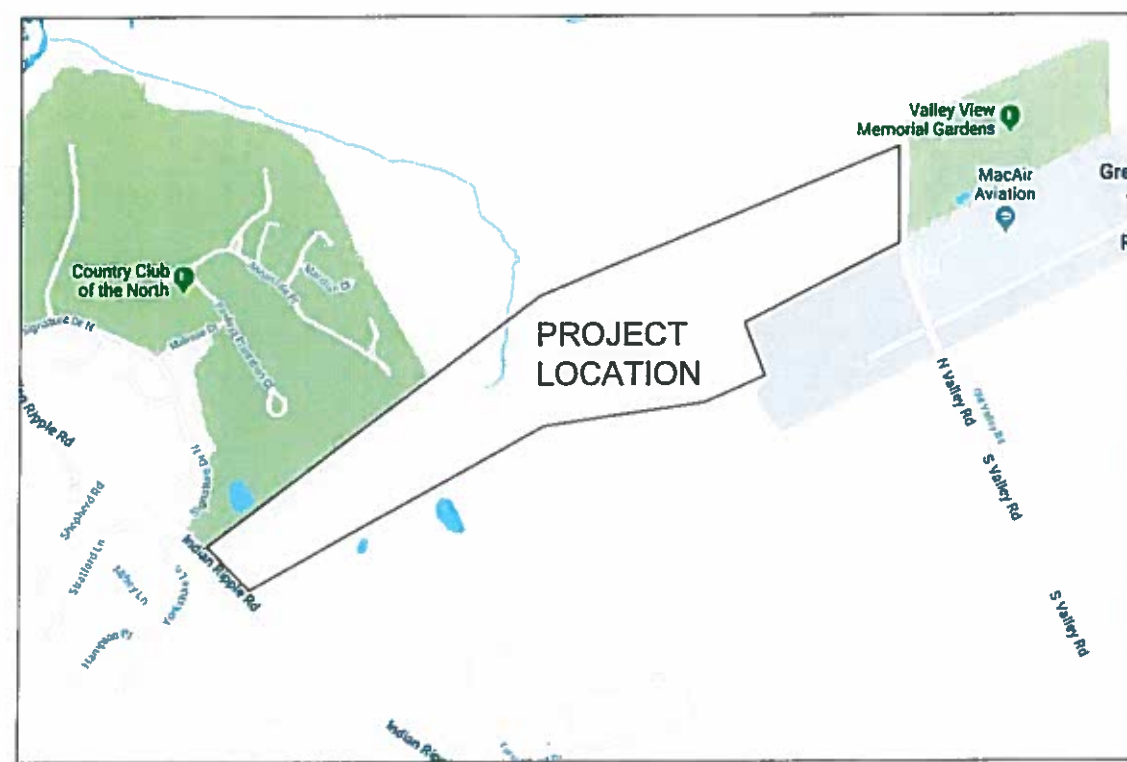
OWNER

GREENE COUNTY, OHIO
Department of Sanitary Engineering
667 Dayton-Xenia Road
Xenia, Ohio 45385-2665
Phone: (937) 562-7450
Fax: (937) 562-7465

CIVIL ENGINEER

GRESHAM SMITH AND PARTNERS
4555 Lake Forest Drive, Suite 100
Cincinnati, Ohio 45242

Civil Contact: Ken Roseman
Phone: (859) 333-9196
Email: ken_roseman@gspnet.com



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**W17-3 WATER AND
S17-2 SEWER
EXTENSION TO
GREENE COUNTY
REGIONAL
AIRPORT**
140 N VALLEY ROAD
GREENE COUNTY
XENIA, OHIO 45385

**NOT FOR
CONSTRUCTION**

Revision		
No.	Date	Description

COVER SHEET

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PRELIMINARY - NOT FOR CONSTRUCTION

ISSUE DATE:
JUNE 1, 2018

PROJECT: 42687.01
DATE: June 1, 2018
LINES 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 22"x34"

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Drawn By: JTS
Checked By: KAH
Approved By: JA

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Checked By: KAM
Approved By: JR

GENERAL NOTES

- ALL SANITARY SEWERS AND WATER LINES AND APPURTENANCES SHALL CONFORM TO THE CURRENT STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY AND THE GREENE COUNTY SANITARY ENGINEERING DEPARTMENT RULES AND REGULATIONS AND CONSTRUCTION SPECIFICATIONS.
- ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR, AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR RELATED ITEMS.
- EXISTING UTILITIES ARE SHOWN ON THE PLANS IN THEIR APPROXIMATE LOCATIONS AND ELEVATIONS ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION AND SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2784) AND EACH UTILITY COMPANY AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.
- WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT EXACT ELEVATIONS MAY BE DETERMINED AND THE NECESSARY ADJUSTMENT MADE. COST OF THE ABOVE, IF ANY, WILL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT ITEM.
- ALL TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED WITH ODOT ITEM 310.02. THE PIPE BEDDING SHALL BE AGGREGATE CONSISTING OF CRUSHED STONE OR GRAVEL, GRADED FROM FINE TO COARSE.
- ALL EXISTING SANITARY SEWER AND WATER LINE FACILITIES THAT ARE UTILIZED DURING CONSTRUCTION MUST BE REPAIRED AND BROUGHT TO FINAL GRADE.
- DUE TO SOIL TYPES AND/OR SHALLOW BEDROCK, SEASONAL SEEPS MAY OCCUR, SUCH SEEPAGE SHALL BE IDENTIFIED DURING CONSTRUCTION AND PIPED INTO THE STORM SEWER SYSTEM.
- ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS", COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 S. FRONT STREET, COLUMBUS, OHIO 43215.
- THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- EXISTING DRAIN TILE DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR CONNECTED TO THE STORM SEWER AS DIRECTED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR TILE REPLACEMENT.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH AND SUBMIT A CONSTRUCTION SCHEDULE TO THE GREENE COUNTY SANITARY ENGINEER, AND SECURE ALL NECESSARY LICENSES AND PERMITS. THE CONTRACTOR SHALL INFORM THE GREENE COUNTY SANITARY ENGINEER OF ANY AND ALL CHANGES IN HIS CONSTRUCTION SCHEDULE.
- DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE DRAINAGE AND PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL ADJACENT ROADS AND LAND.
- WHERE THE PLANS OR SPECIFICATIONS CALL FOR A SPECIFIC ITEM OR AN "APPROVED EQUAL", ONLY THE GREENE COUNTY SANITARY ENGINEER SHALL MAKE THE DETERMINATION AS TO WHETHER AN ALTERNATE ITEM IS AN "APPROVED EQUAL".
- WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT EXACT ELEVATIONS MAY BE DETERMINED AND THE NECESSARY ADJUSTMENT MADE. COST OF THE ABOVE, IF ANY, WILL BE INCLUDED IN THE BID PRICE FOR THE PERTINENT ITEM.
- SILT FENCE SHALL BE INSTALLED AROUND THE OUTSIDE PERIMETER OF ALL TOPSOIL AND EXCAVATED MATERIAL STOCKPILES.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE DONE TO ADJACENT PROPERTIES OR ANY PROPERTY AFFECTED BY THE CONSTRUCTION WORK. THE CONTRACTOR SHALL TAKE SPECIAL EFFORT TO PROTECT EXISTING TREES AND/OR SHRUBS.
- GREENE COUNTY SANITARY ENGINEERING DEPARTMENT INSPECTION SHALL BE NOTIFIED 24 HOURS BEFORE COMMENCEMENT OF CONSTRUCTION.
- NO ADDITIONS, DELETIONS OR REVISIONS TO THE SANITARY SEWER AND/OR WATER FACILITIES ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL.
- NO DIMENSIONS SHALL BE SCALED; REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAGING. CONSTRUCTION STAGING SHALL BE PERFORMED BY A LICENSED PROFESSIONAL SURVEYOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION ALL WORK WITH UTILITY COMPANIES.
- THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. GREENE COUNTY AND/OR THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE DEPTH OF THE UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS.
- SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE ITEMS.
- ALL CONSTRUCTION SHALL MEET THE CURRENT GREENE COUNTY SANITARY ENGINEERING DEPARTMENT, OHIO ENVIRONMENTAL PROTECTION AGENCY, OHIO BASIC BUILDING CODE, GREENE COUNTY BUILDING CODE, GREENE COUNTY GENERAL HEALTH DISTRICT, AND LOCAL TOWNSHIP REQUIREMENTS AND SPECIFICATIONS.
- ALL WORK INVOLVING PUBLIC ROADWAYS SHALL BE ACCEPTABLE TO THE GREENE COUNTY ENGINEERS.
- UPON COMPLETION AND FINAL BACKFILLING, THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL SURFACE RELATED ITEMS THAT MAY BE REMOVED OR DAMAGED DUE TO THE WORK. ITEMS INCLUDED BUT ARE NOT LIMITED TO FENCES, SIGNS, MAILBOXES, STORM PIPES, PROPERTY MARKERS, ETC. NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL EXERCISE DUE AND SUFFICIENT CARE SO THAT NO DAMAGE IS DONE TO TREES AND OTHER PLANTS. ROOT CUTTING SHALL BE KEPT TO A MINIMUM.
- EXISTING UNDERGROUND UTILITIES AND SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO KNOWN INFORMATION AVAILABLE. THE LOCATIONS SHOWN ARE INTENDED ONLY AS A GUIDE AND CANNOT BE GUARANTEED TO BE ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION AND ADVISING THEM OF THE WORK TO TAKE PLACE.
- SOLICITATING THEIR AID IN LOCATION AND PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
- EXCAVATING AND VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF EACH UTILITY.
- ALL DAMAGE TO ANY EXISTING UTILITY.
- CONTACTING THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2784) 48 HOURS PRIOR TO CONSTRUCTION.

THE FOLLOWING ARE KNOWN OWNERS OF THE UNDERGROUND UTILITIES IN THE PROJECT AREA, AND SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION TO FIELD LOCATE SAID UTILITIES:

DAYTON POWER & LIGHT (ELECTRIC)
1900 DRYDEN ROAD, P.O. BOX 1807
DAYTON, OH 45439
(800) 424-5578

CHARTER COMMUNICATIONS
3691 TURNER ROAD
DAYTON, OH 45415
(937) 425-8650

VECTREN ENERGY (GAS)
1335 EAST DAYTON-YELLOW SPRINGS ROAD
FAIRBORN, OH 45324
(937) 440-1918

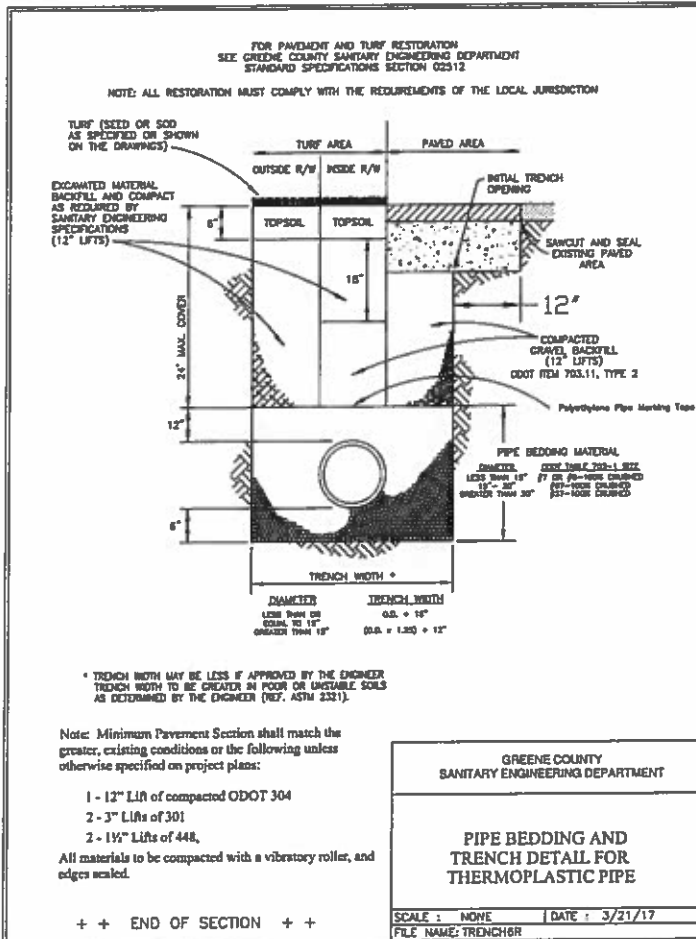
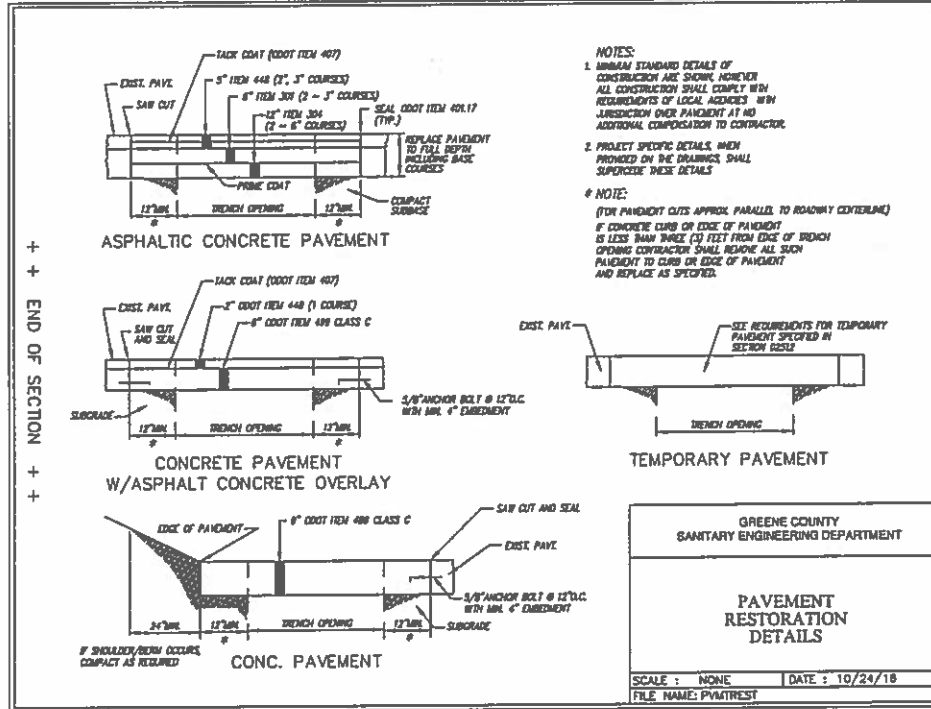
AT&T TRANSMISSION
METROPOLITAN COMMUNICATIONS GROUP
155 COMMERCE PARK DRIVE, SUITE 1
WESTERVILLE, OHIO 43082
(614) 362-2873

GREENE COUNTY SANITARY ENGINEERING
867 DAYTON-XENIA ROAD
XENIA, OH 45385-2865
(937) 562-7450

AT&T
3233 WOODMAN DRIVE
DAYTON, OH 45420
(937) 296-3558

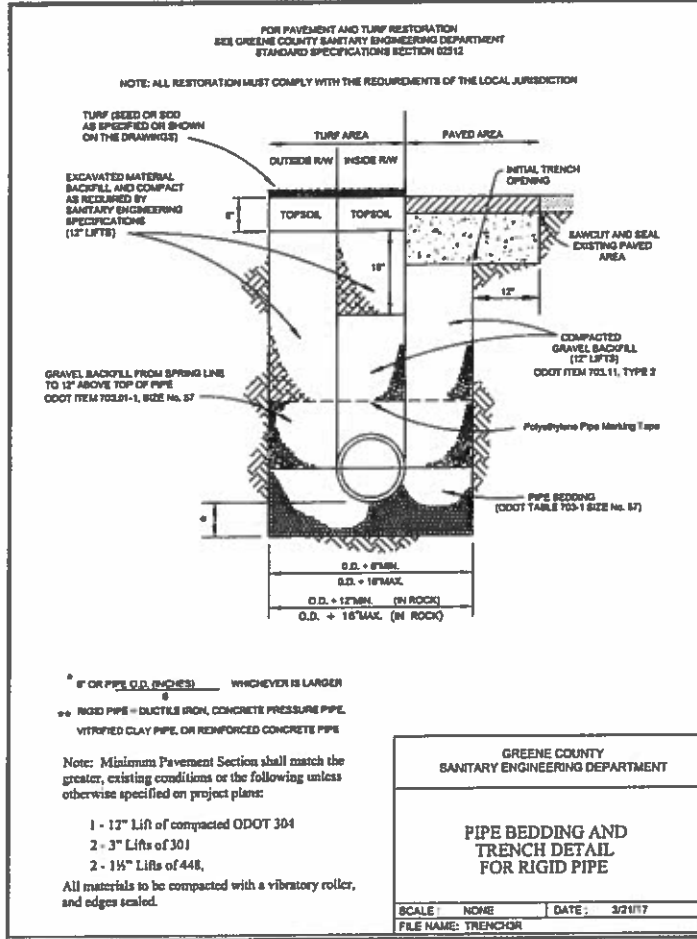
WATER NOTES

- ALL WATER MAINS SHALL HAVE A MINIMUM OF FOUR AND ONE-HALF FEET (4'-0") OF COVER, SHALL BE LAID WITH AT LEAST A TEN FOOT (10') HORIZONTAL SEPARATION FROM ANY SANITARY SEWER LINE AND SHALL BE LAID AT LEAST EIGHTEEN INCHES (18") VERTICAL SEPARATION FROM ANY SANITARY IN ACCORDANCE WITH THE "TEN STATE STANDARDS." NO MAIN LINE WATER VALVES OR FIRE HYDRANTS SHALL BE INSTALLED AT A FINISH DEPTH OF GREATER THAN SIX FEET.
- ALL WATER VALVES AND FIRE HYDRANTS SHALL OPEN TO THE RIGHT.
- ALL TEE ASSEMBLIES OFF THE MAINLINE WATER MAIN, INCLUDING VALVES, SPOOL PIECES & FIRE HYDRANTS, SHALL HAVE FULLY RESTRAINED JOINTS FOR THE FULL LENGTH OF THE ASSEMBLY.
- THE CONTRACTOR SHALL SUBJECT THE COMPLETED WATER LINE TO A LEAKAGE TEST IN ACCORDANCE WITH THE GREENE COUNTY SANITARY ENGINEERING DEPARTMENT AND AWWA C600. THE TEST PRESSURE FOR THE TEST SHALL BE ONE HUNDRED-FIFTY POUNDS PER SQUARE INCH (150 PSI) UNLESS OTHERWISE APPROVED AND SHALL BE MAINTAINED FOR TWO HOURS.
- A FIRE HYDRANT ASSEMBLY INCLUDES VALVE, SPOOL PIECES, FIRE HYDRANT, ANCHOR PIPE AND OTHER FITTINGS TO MEET THE PLAN REQUIREMENTS.



SANITARY SEWER NOTES

- ALL SANITARY MANHOLES, UNLESS OTHERWISE NOTED, SHALL BE PRECAST CONFORMING TO ASTM D-478 OR MONOLITHIC CONSTRUCTION OF CLASS "A" 4200 CONCRETE.
- SANITARY MANHOLE BOTTOMS TO BE CHanneled.
 - JOINTS BETWEEN SANITARY MANHOLE SECTIONS SHALL CONFORM TO ASTM C-443.
 - SANITARY LATERALS TO BE INSTALLED AT MINIMUM TWO PERCENT (2%) GRADE.
 - ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
 - THE SANITARY SEWER (WHEN CROSSING OVER A WATER MAIN) SHALL BE ENCASED OR CONSTRUCTED OF MATERIALS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN. THE SEWER SHALL BE CONSTRUCTED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS AND THE SEWER SHALL HAVE ADEQUATE STRUCTURAL SUPPORT TO PREVENT DAMAGE TO THE WATER MAIN.
 - THE CONTRACTOR SHALL NOT MAKE ANY PHYSICAL CONNECTION TO THE EXISTING SANITARY SEWER, UNTIL THE REMAINING SEWERS, EXCLUDING THE FIRST SPAN, HAS BEEN TESTED, INSPECTED AND RELEASED.
 - THE EXTERIOR OF ALL MANHOLES SHALL BE WATERPROOFED WITH A HEAVY-DUTY CEMENT-BASED MATERIAL TO FILL AND SEAL PORES AND VOIDS. MATERIAL SHALL BE "THOROSEAL" OR APPROVED EQUAL.
 - MANHOLE TOP ELEVATIONS SHOWN INDICATE PROPOSED MANHOLE LID ELEVATIONS.



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140 N VALLEY ROAD
GREENE COUNTY
XENIA, OHIO 45385

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Revision		
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GENERAL NOTES AND DETAILS

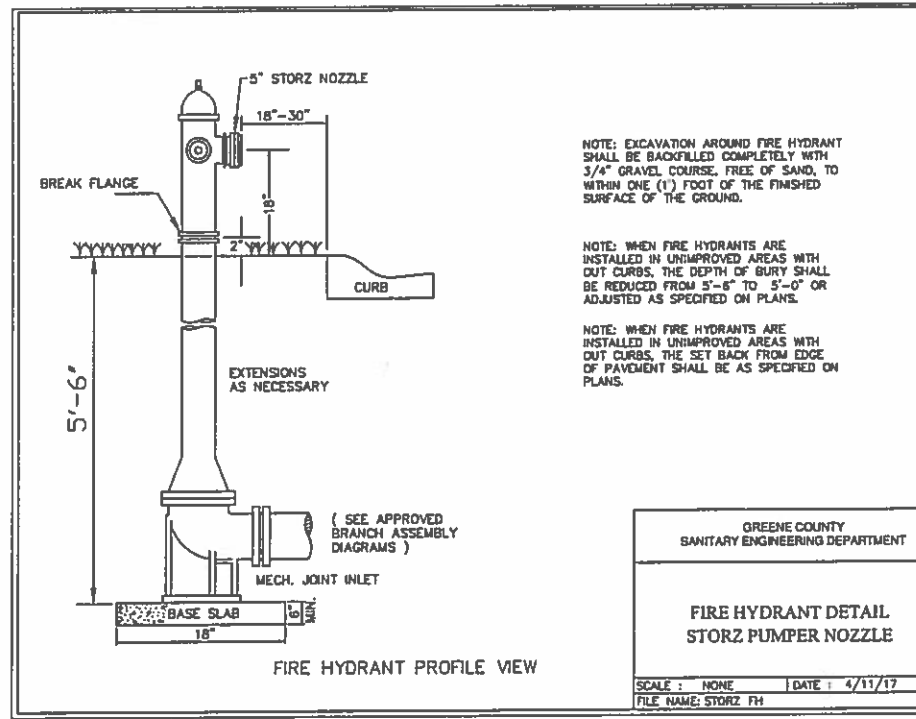
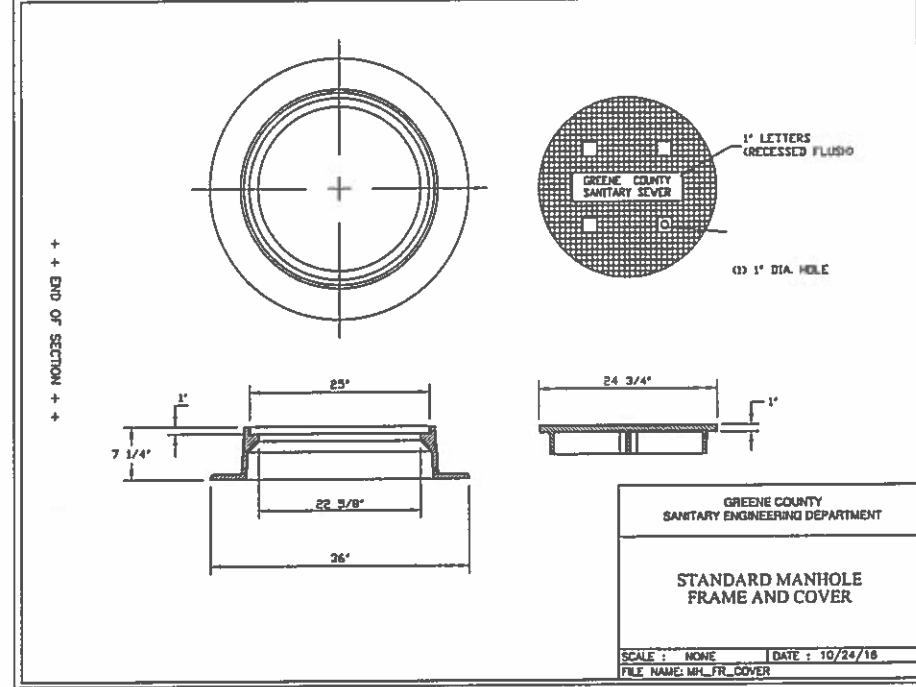
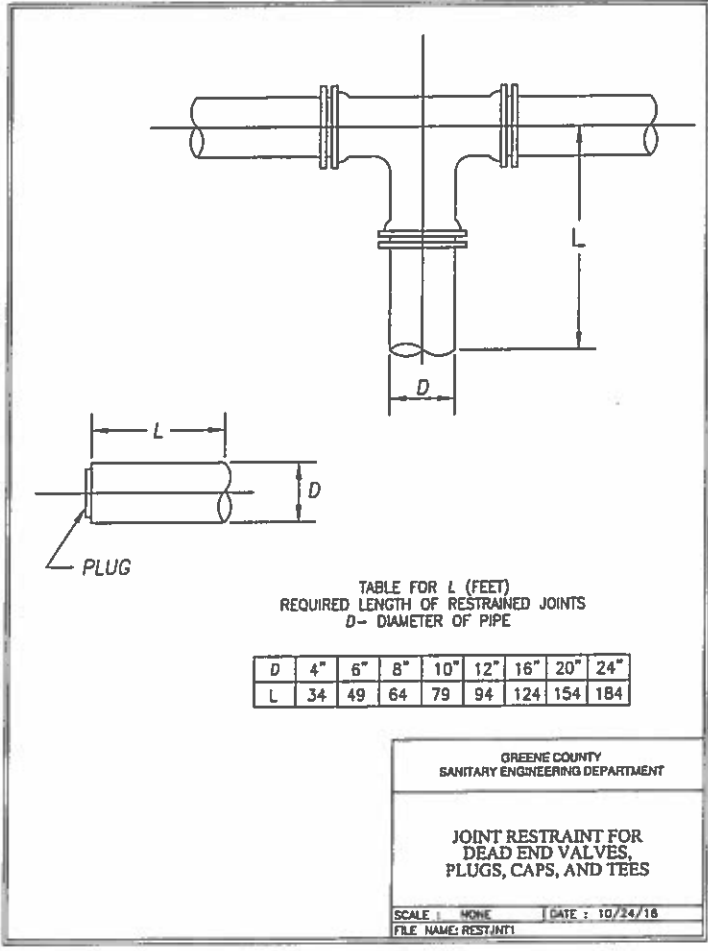
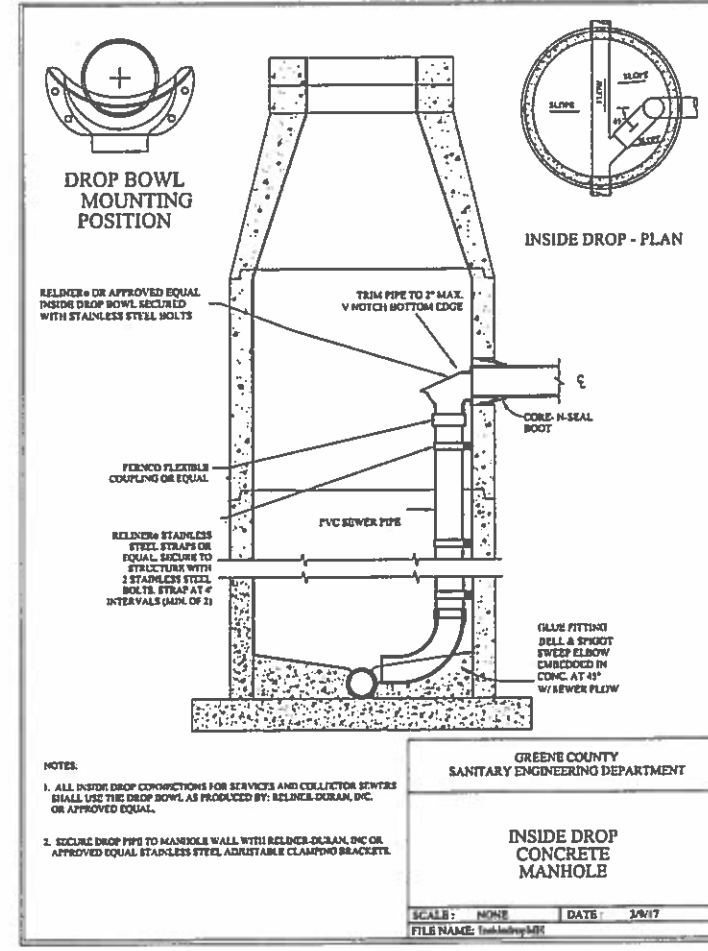
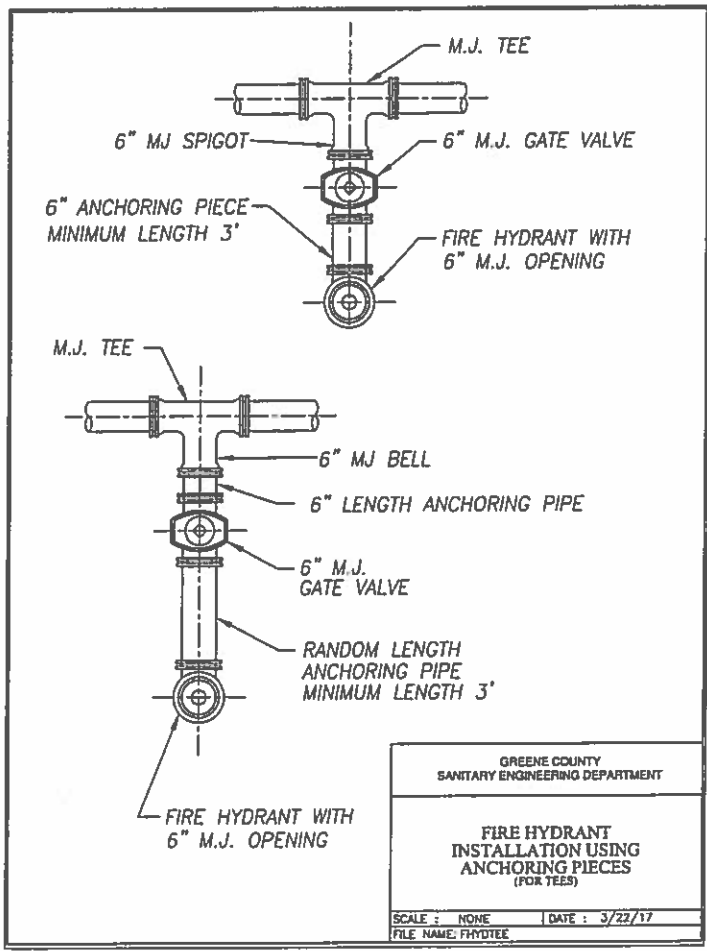
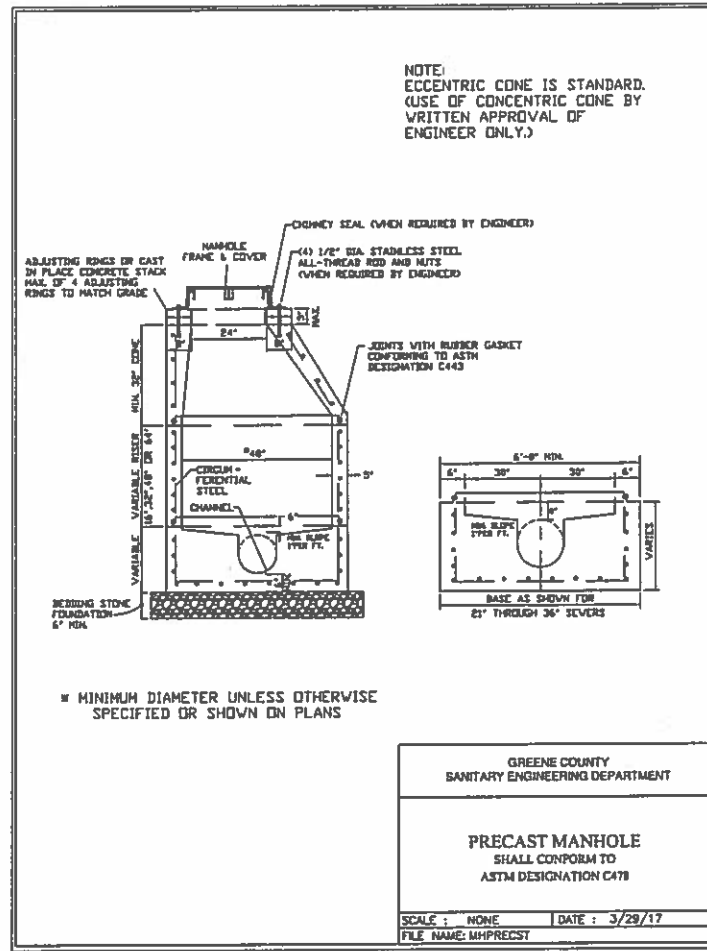
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PROJECT: 42687.01
DATE: June 1, 2018

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 22"x34"



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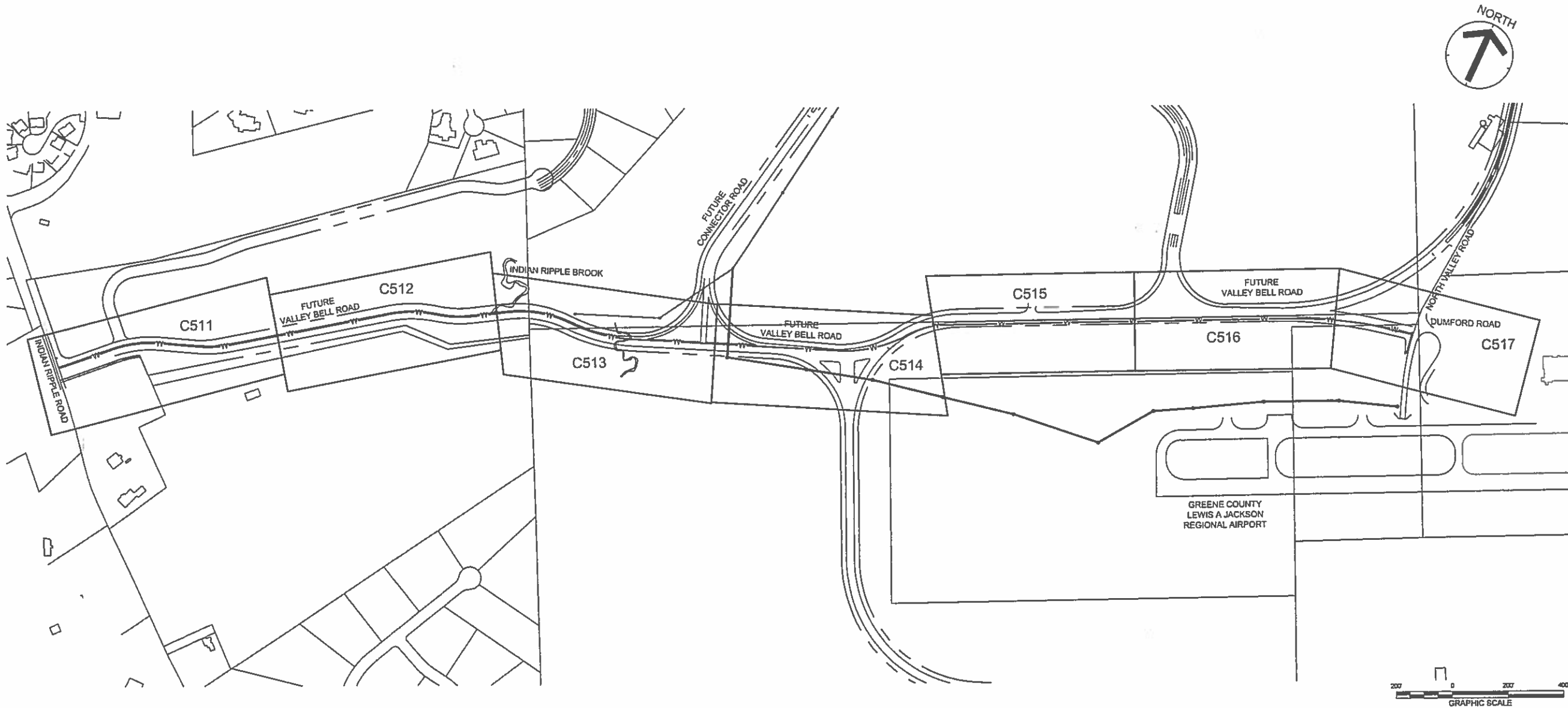
GENERAL NOTES AND DETAILS



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The sheet has been revised, updated and dated as follows:

Revision		
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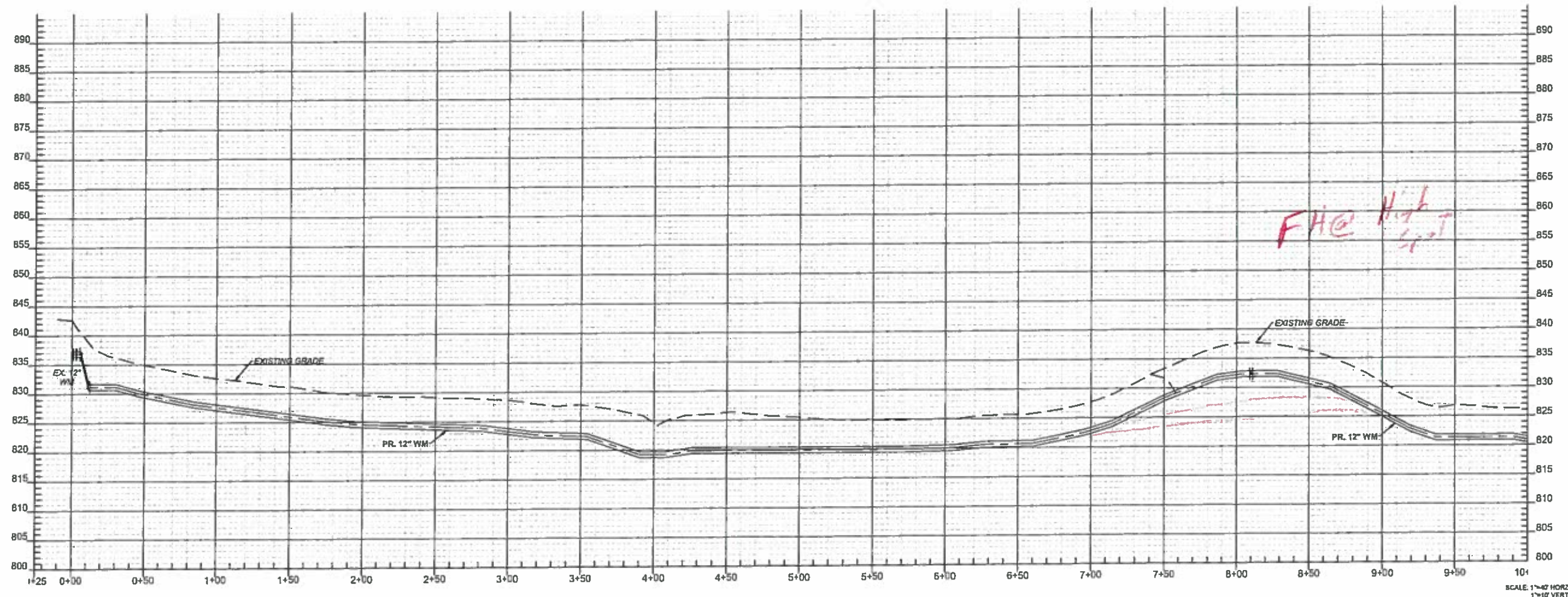
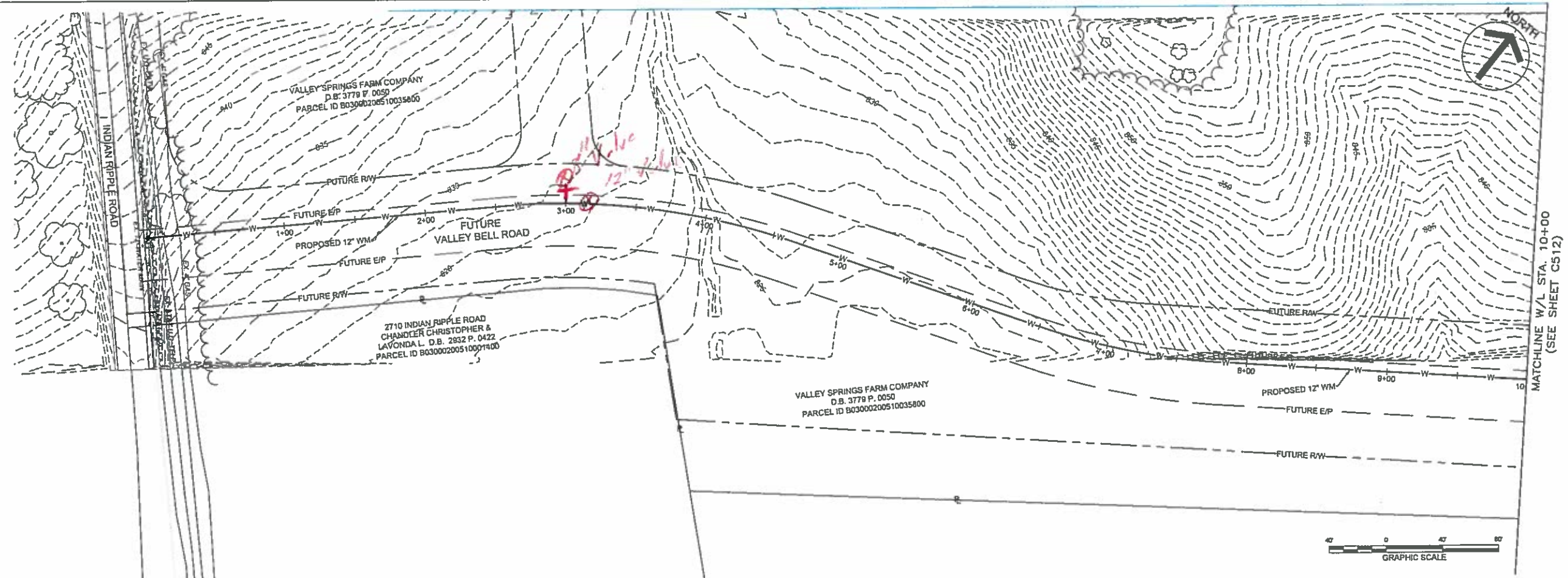
WATER LINE
INDEX SHEET

C510

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WATER LINE
PLAN AND PROFILE

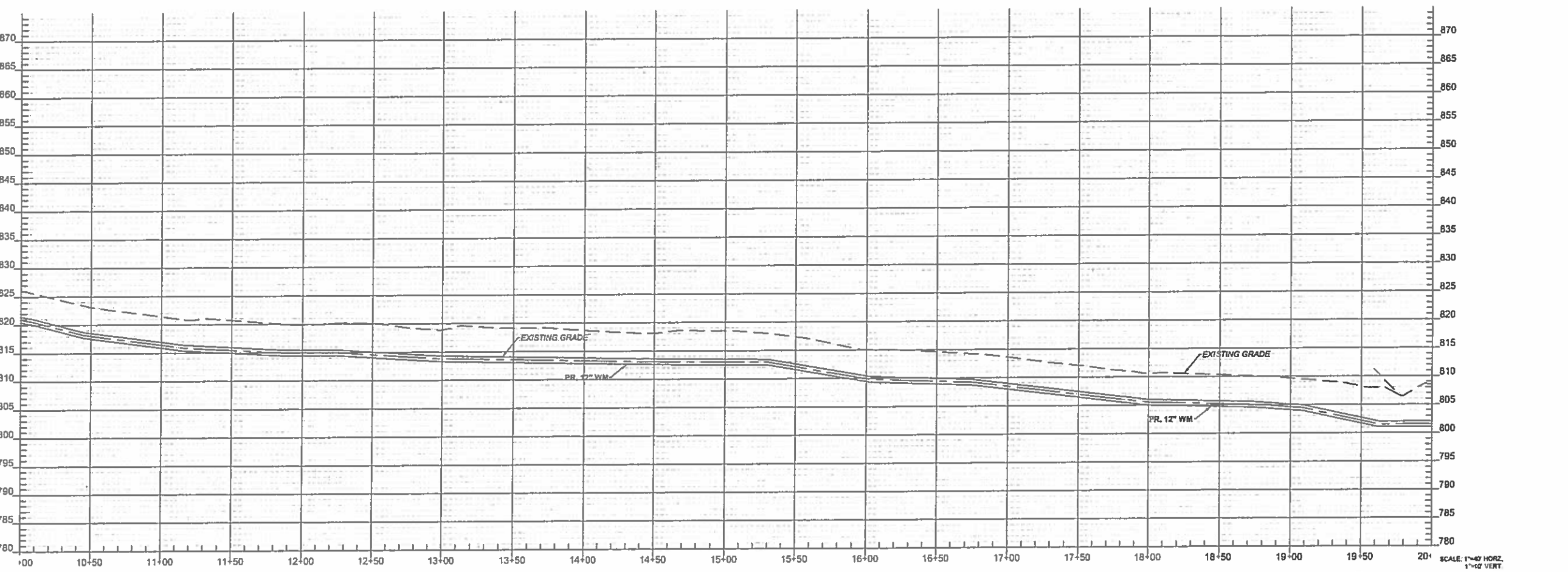
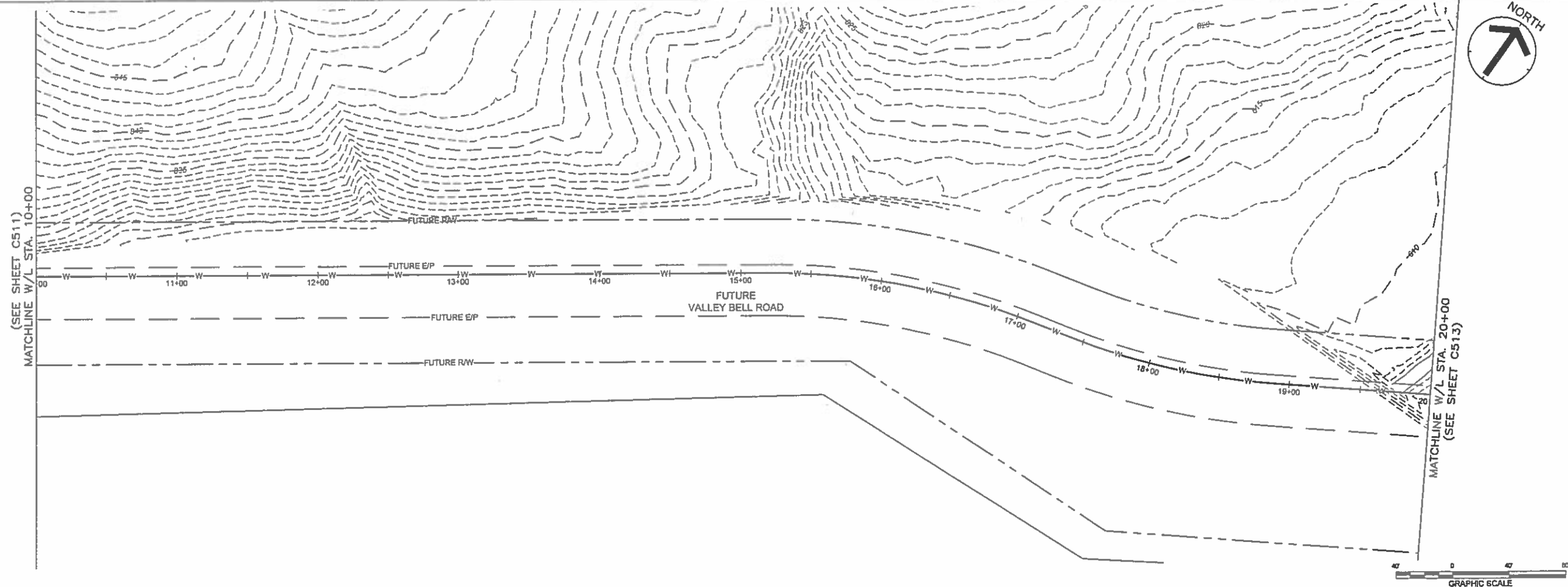
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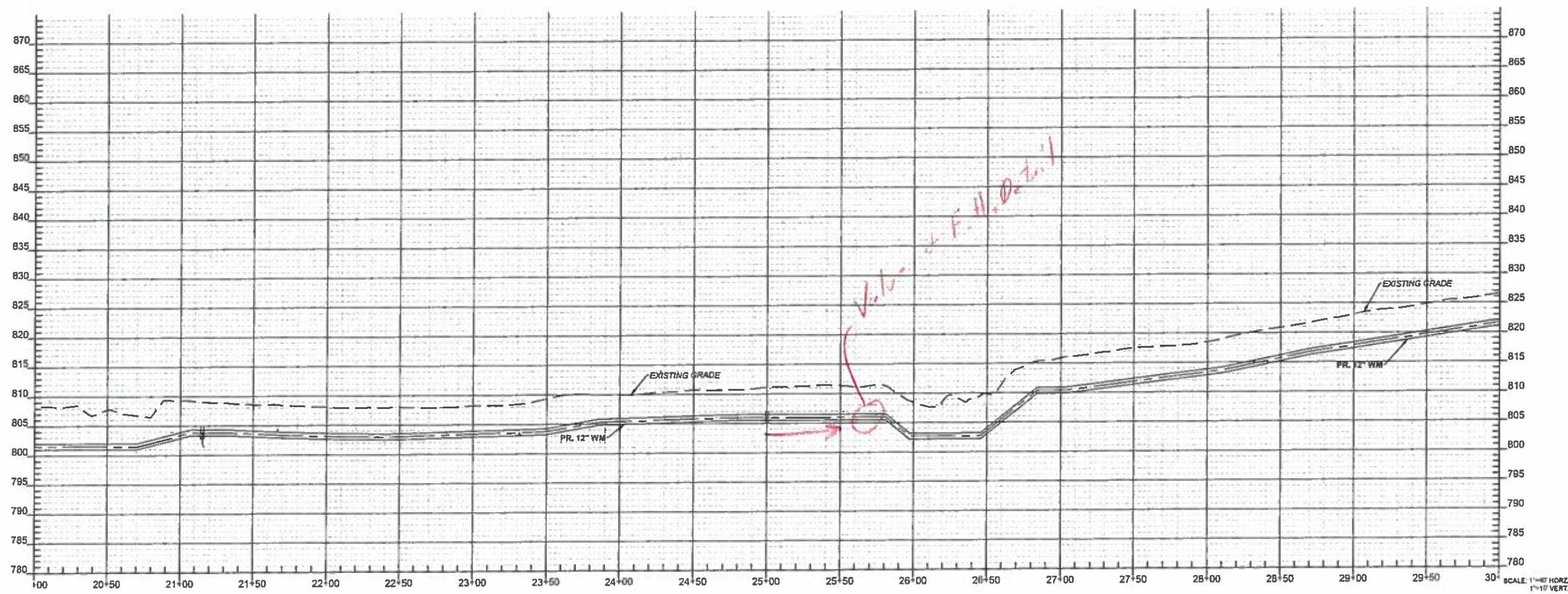
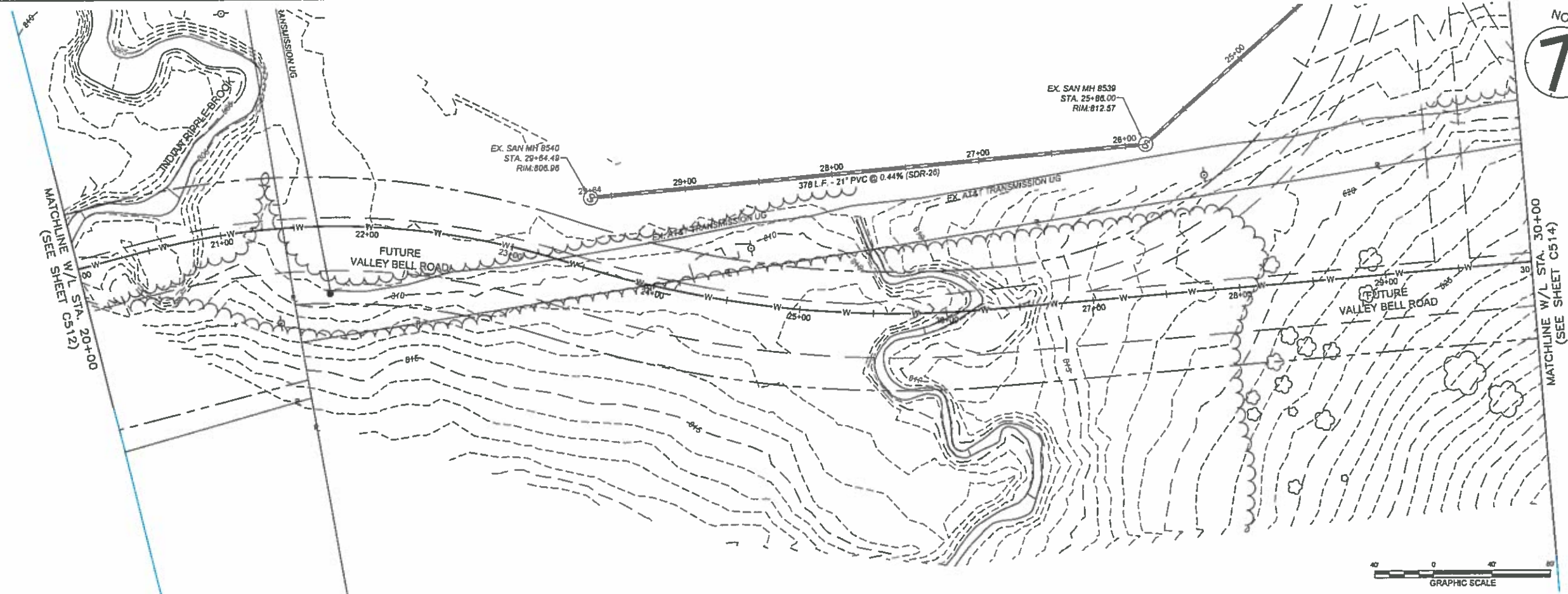
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WATER LINE
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C512

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WATER LINE
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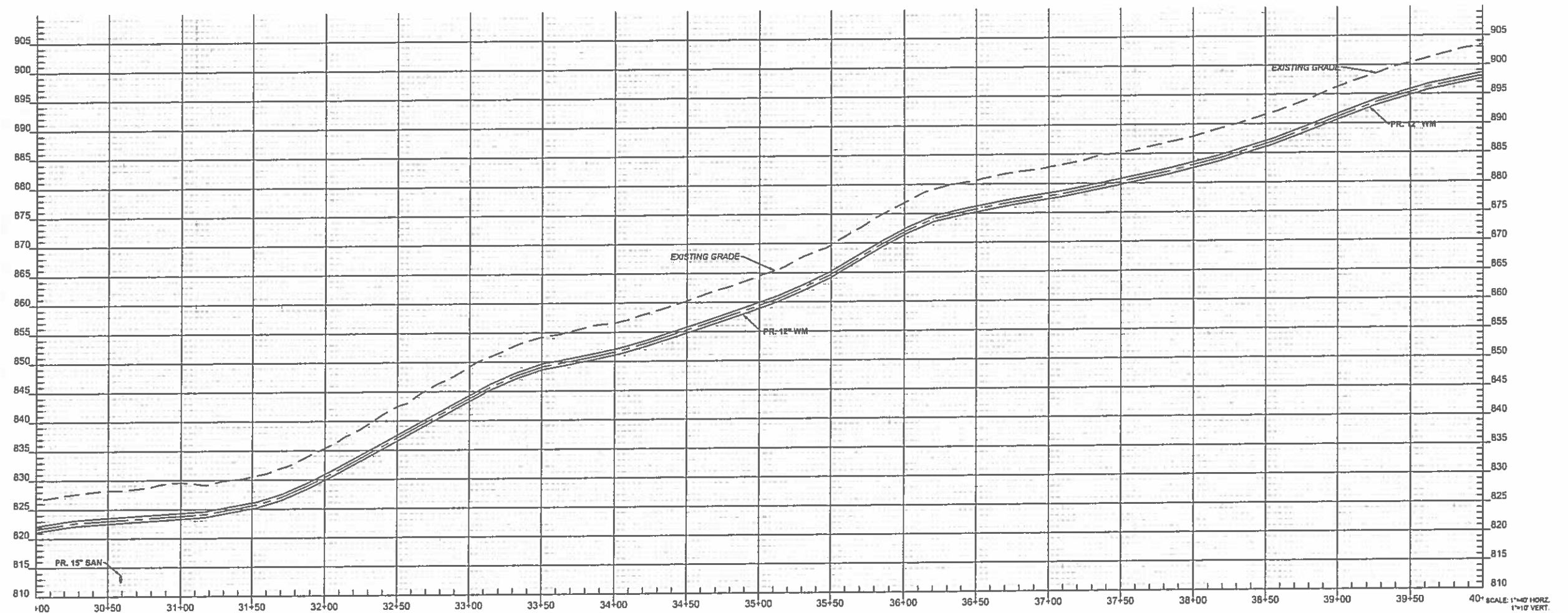
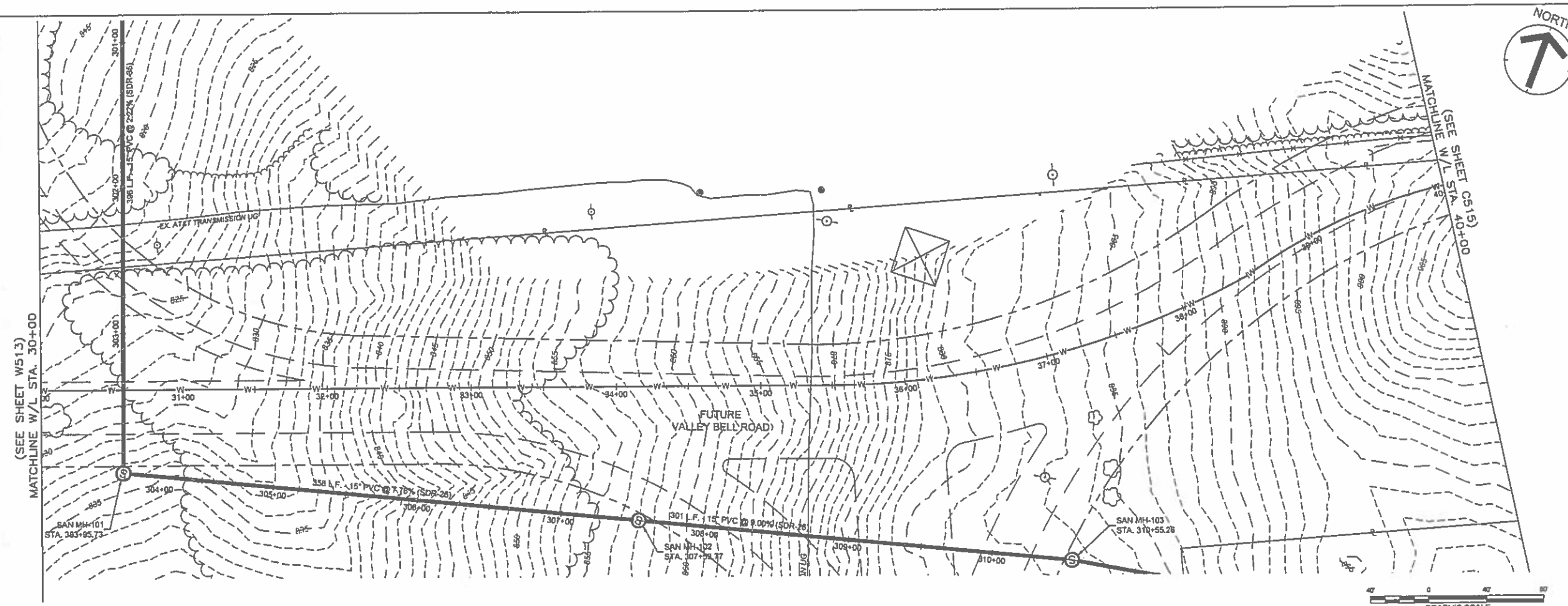
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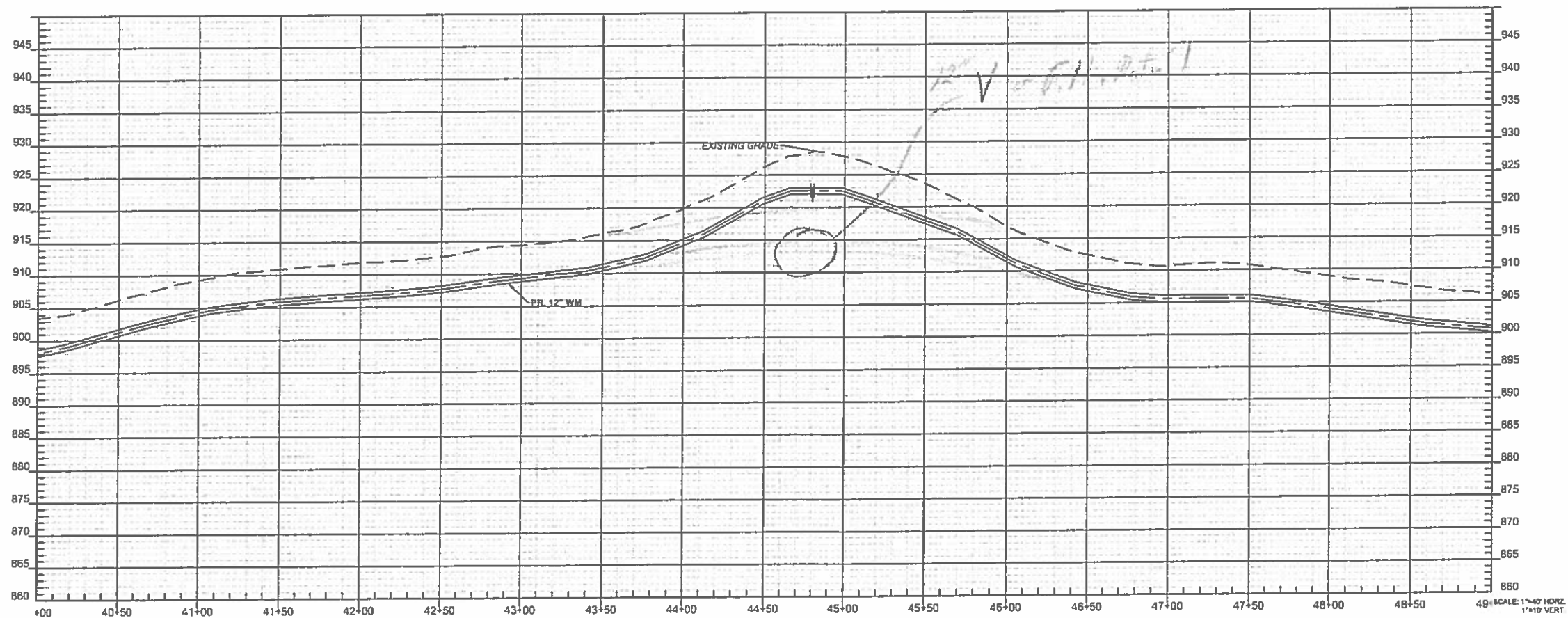
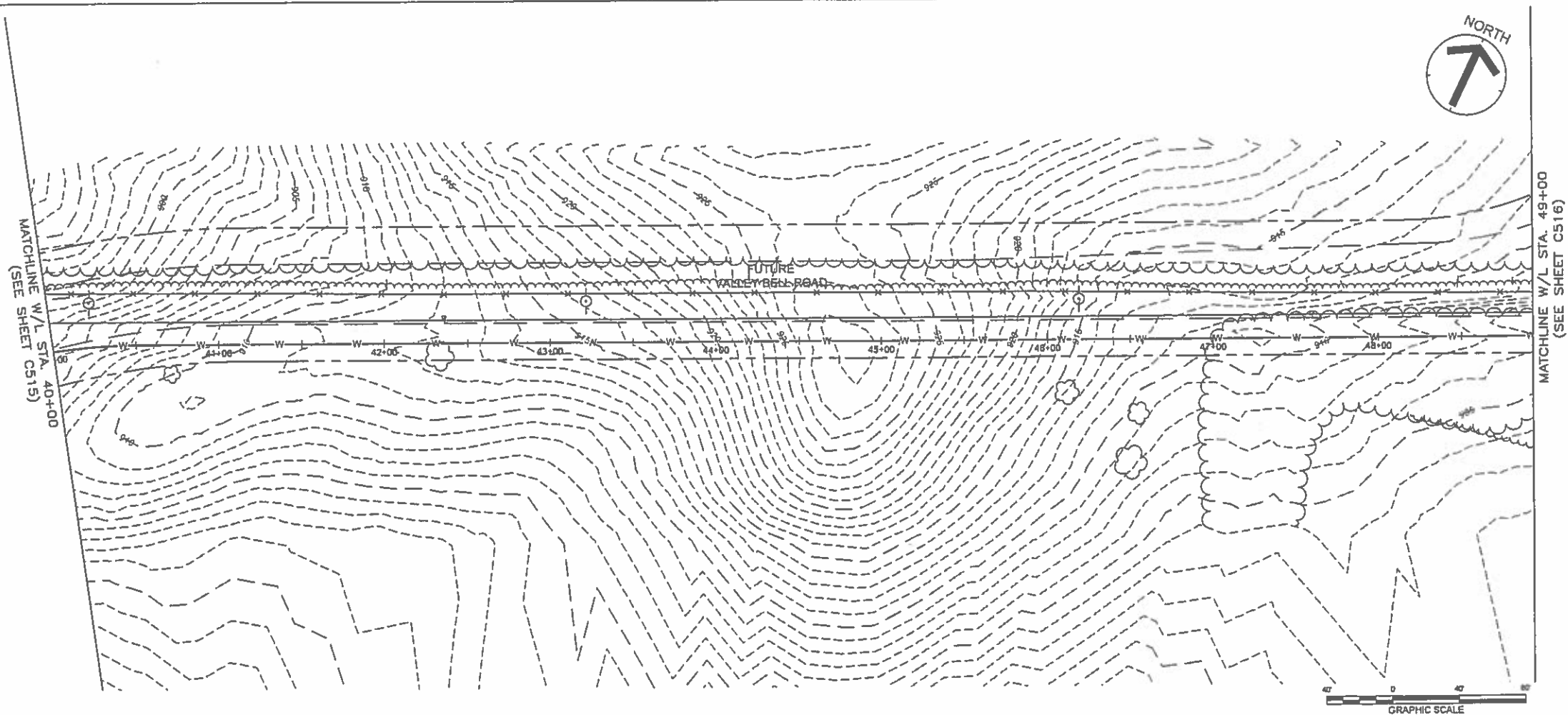
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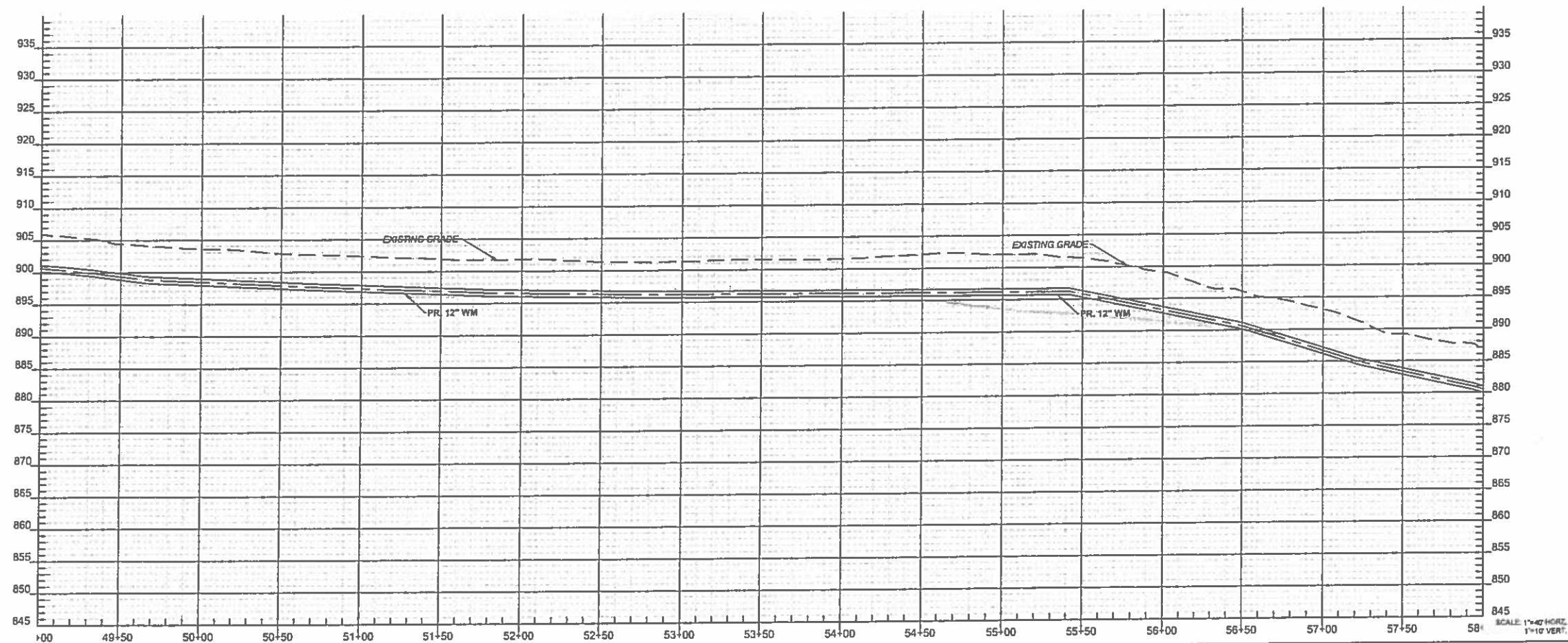
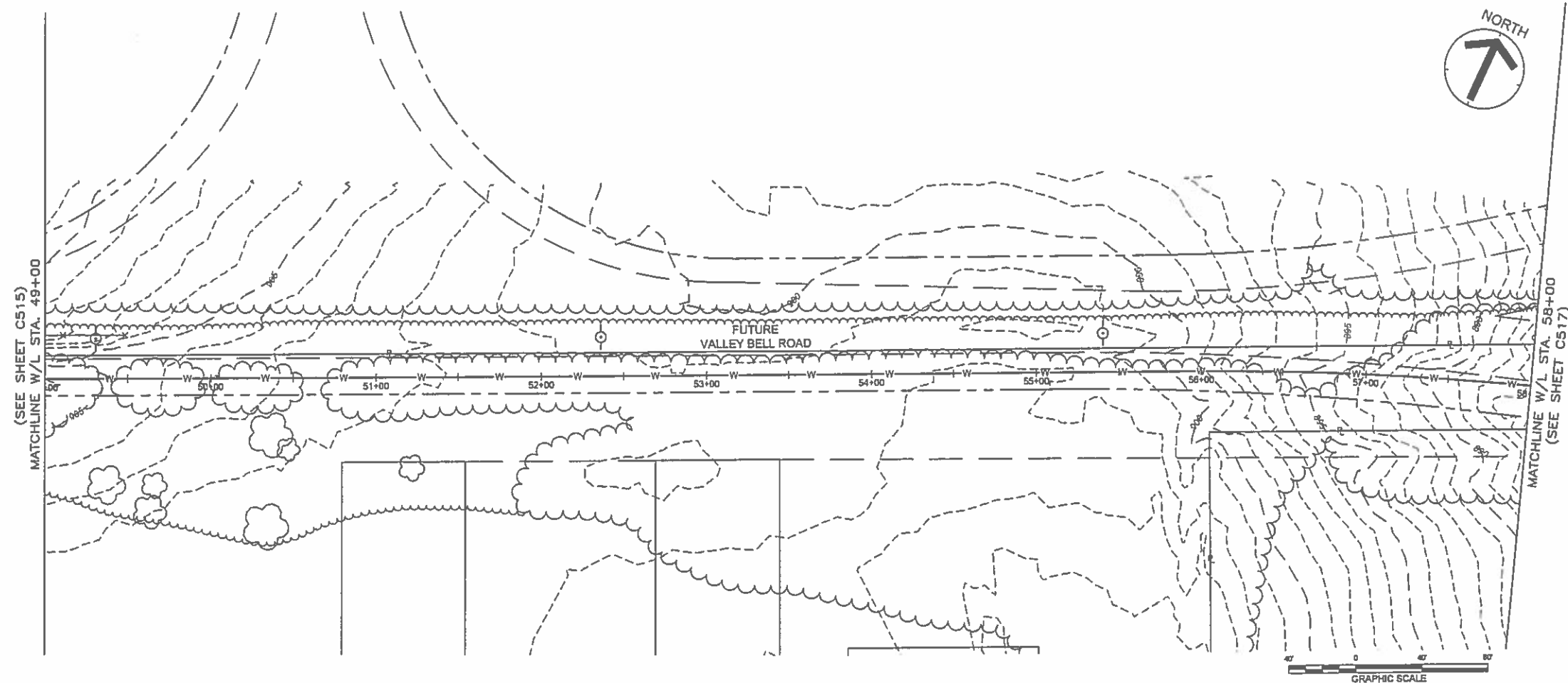
WATER LINE
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W17-3 WATER AND S17-2 SEWER EXTENSION TO GREENE COUNTY REGIONAL AIRPORT

140 N VALLEY ROAD
GREENE COUNTY
XENIA, OHIO 45385

NOT FOR
CONSTRUCTION

Revision		
No.	Date	Description

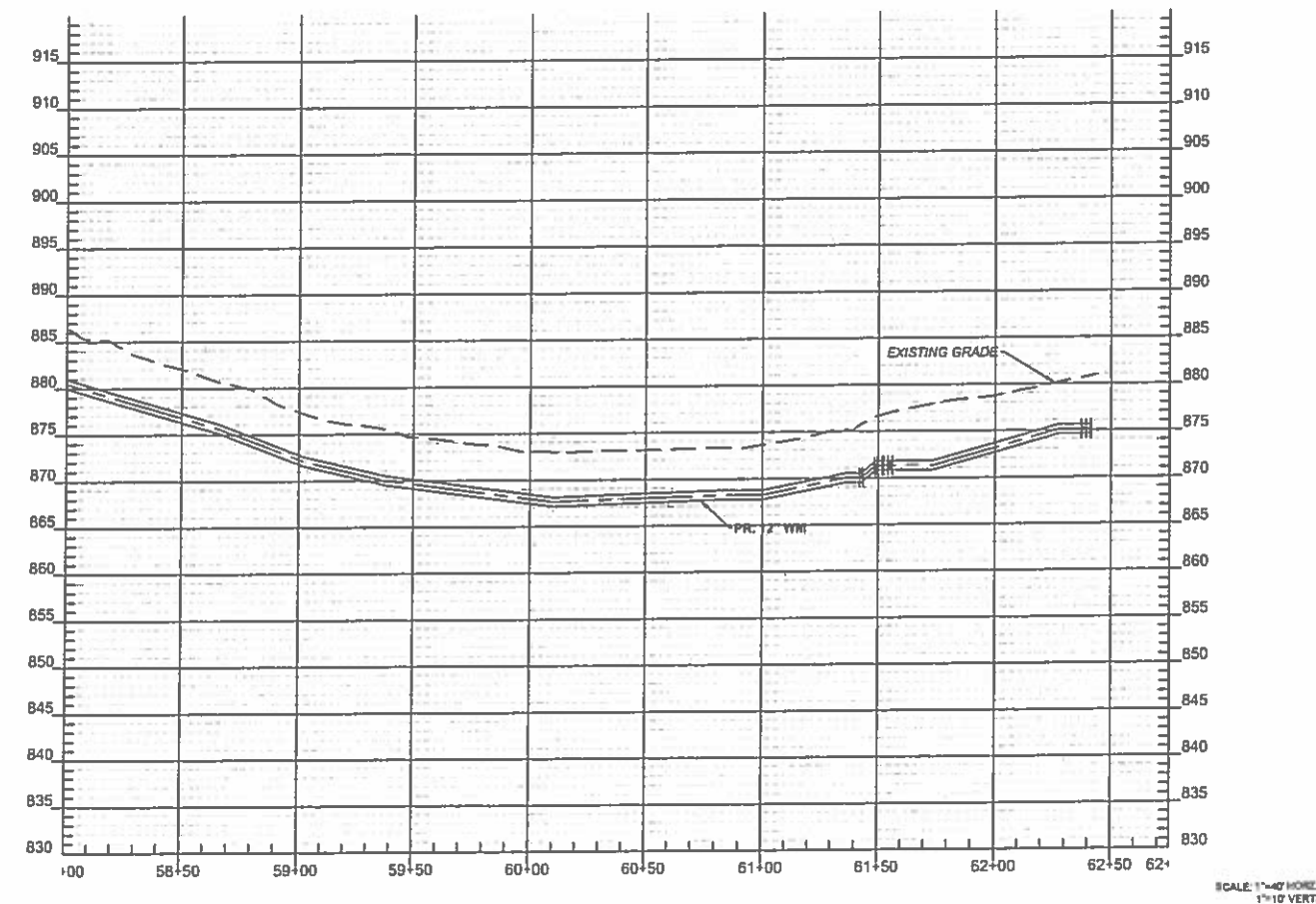
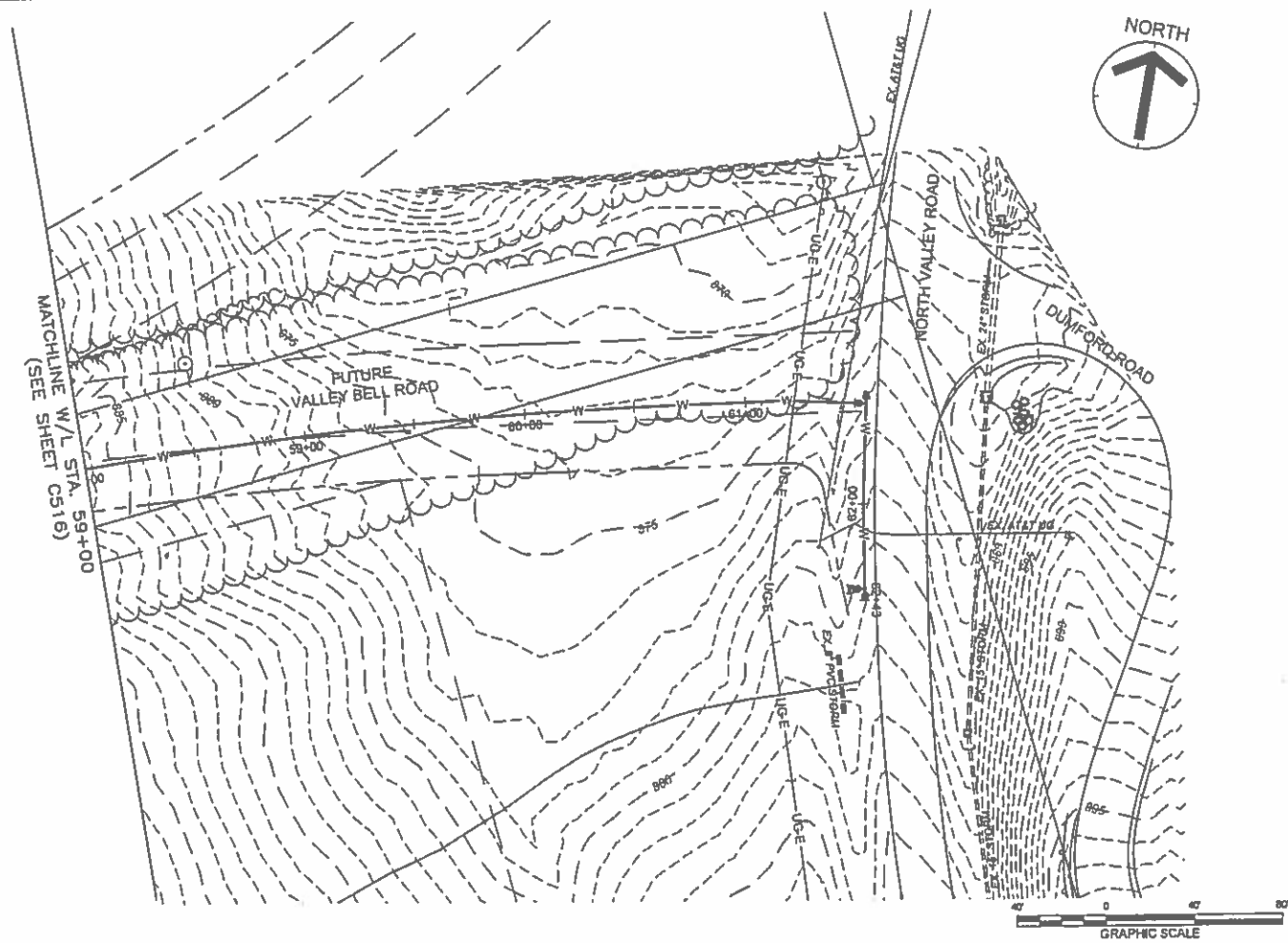
WATER LINE
PLAN AND PROFILE

C516

PROJECT: 42687.01
DATE: June 1, 2018

ONE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 22"X34"

Drawn By: JTS
Checked By: MAM
Approved By: JR



P:\268701\wSheet\C510-C516s.dwg - Strobl, Jeff - 4/17/2018 10:48:58 AM



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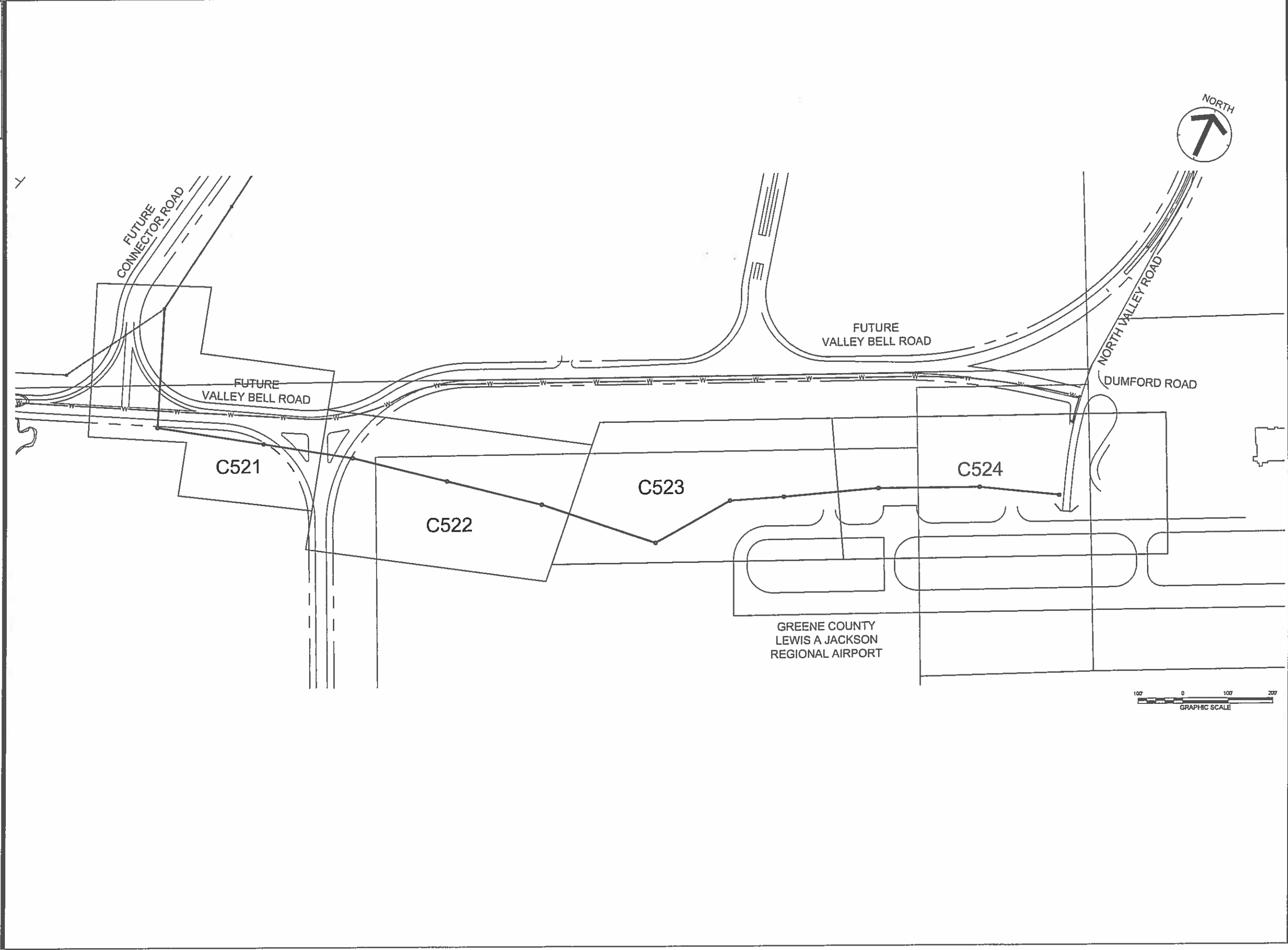
WATER LINE
PLAN AND PROFILE

C517

PROJECT: 42687.01
DATE: June 1, 2018

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REGIONAL
AIRPORT

140 N VALLEY ROAD
GREENE COUNTY
XENIA, OHIO 45385

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This sheet has been revised, updated, and added details.

Revision		
No.	Date	Description
#	####	
#	####	
#	####	
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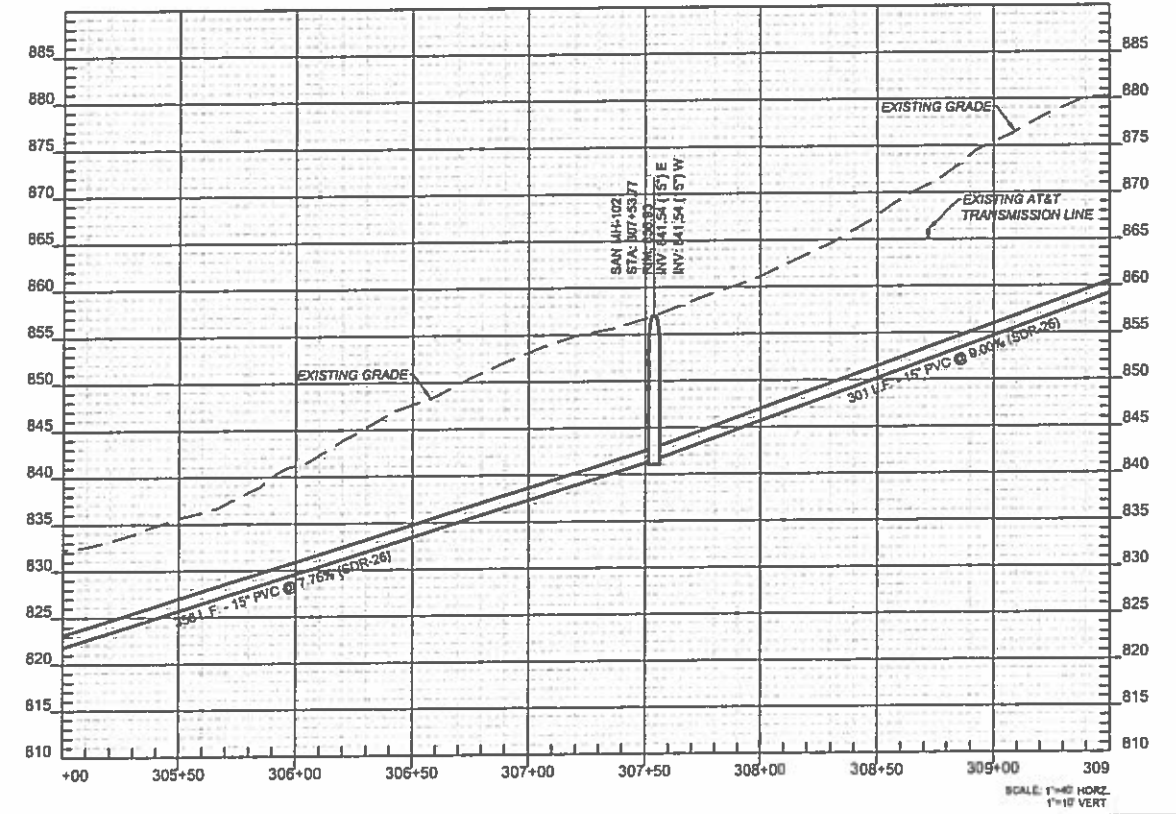
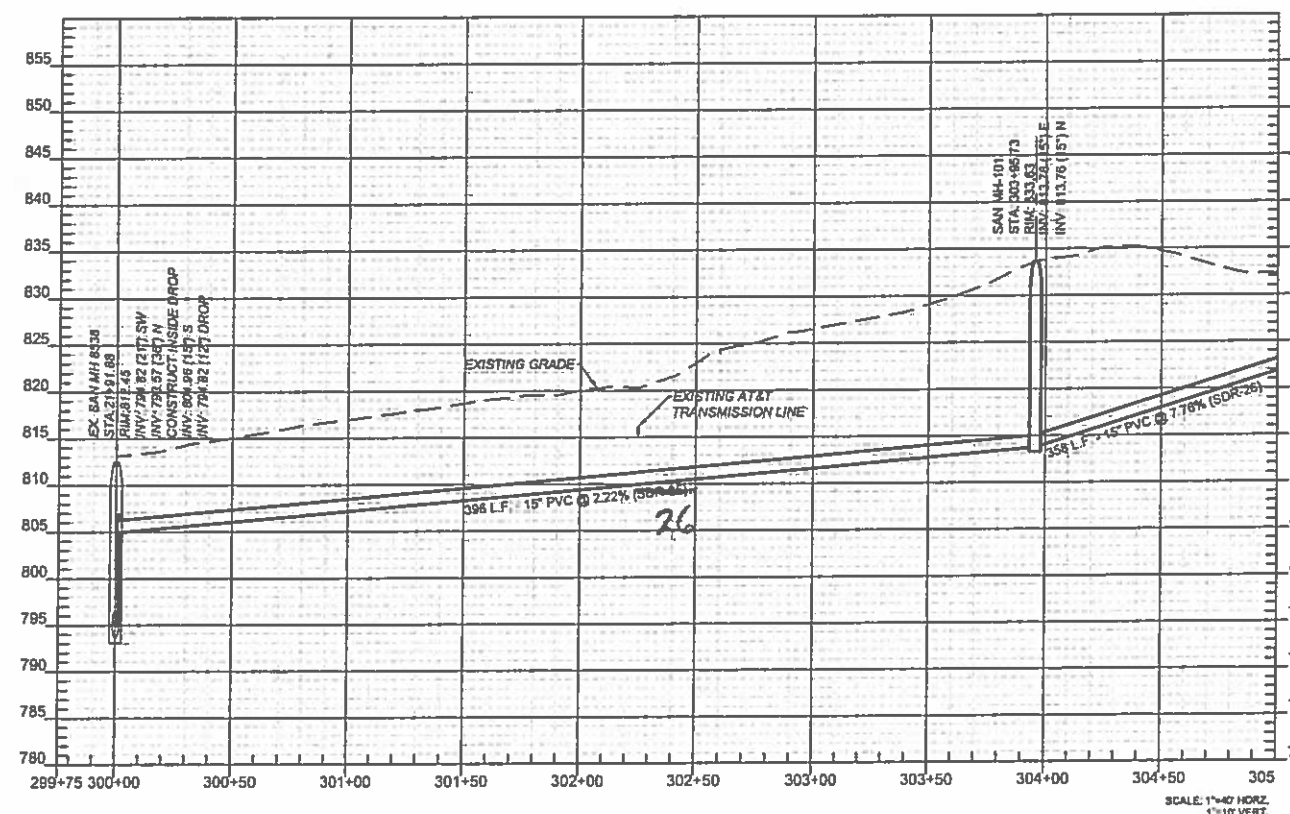
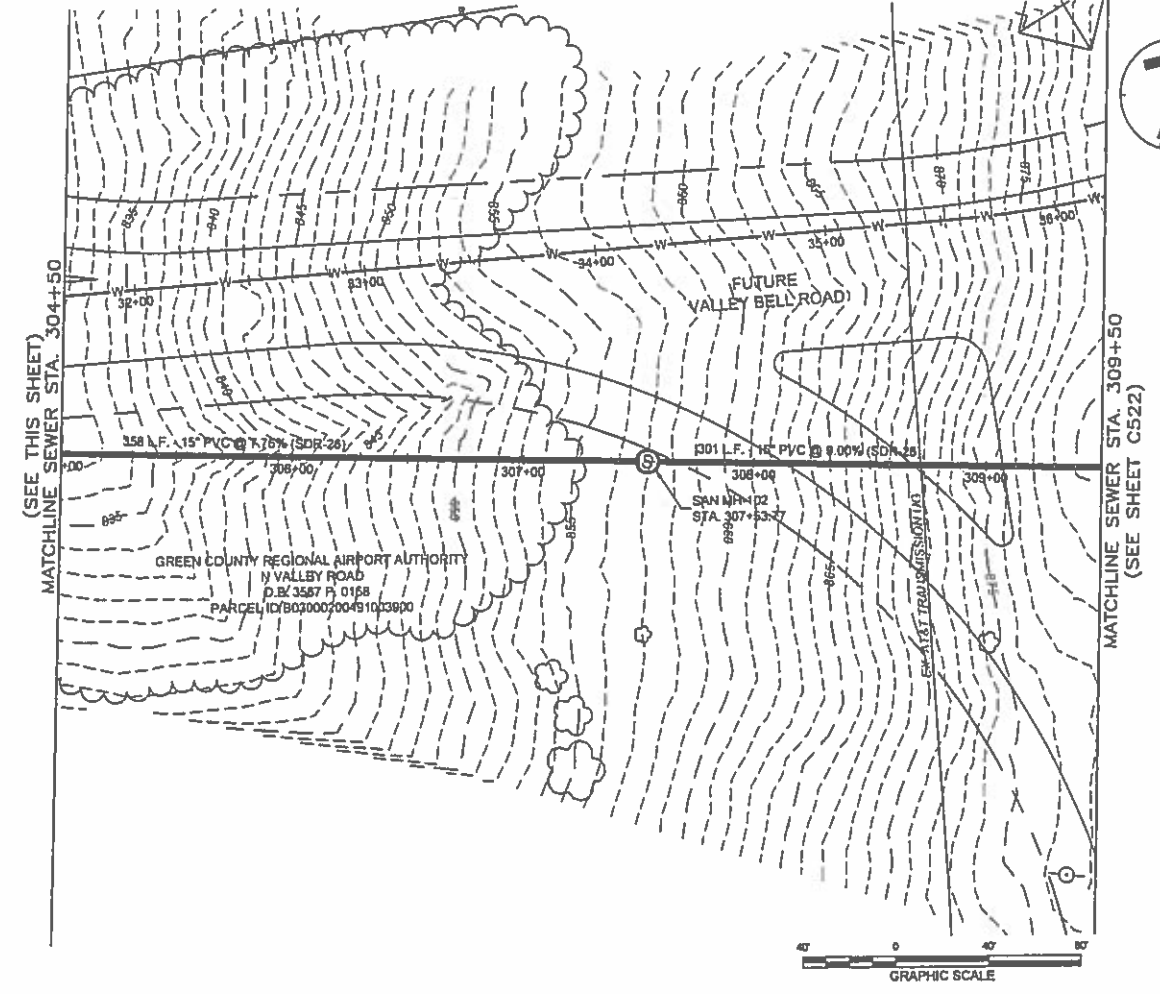
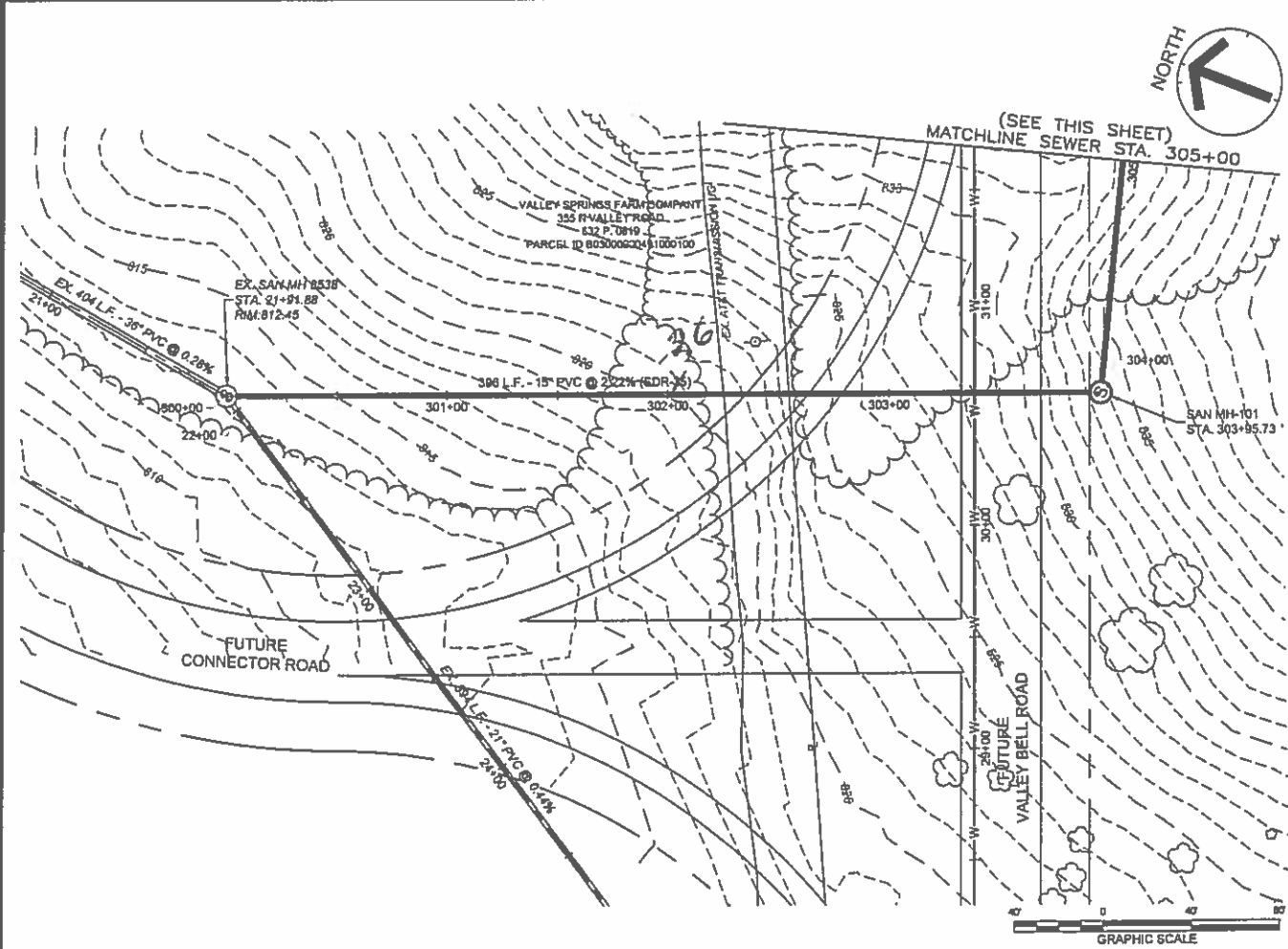
SANITARY SEWER
INDEX SHEET

C520

PROJECT: 42687.01
DATE: June 1, 2018

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FULL SHEET SIZE = 22"x34"

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REGIONAL
AIRPORT

140 N VALLEY ROAD
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XENIA, OHIO 45385

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CONSTRUCTION

The project has been prepared, verified, and sealed properly.

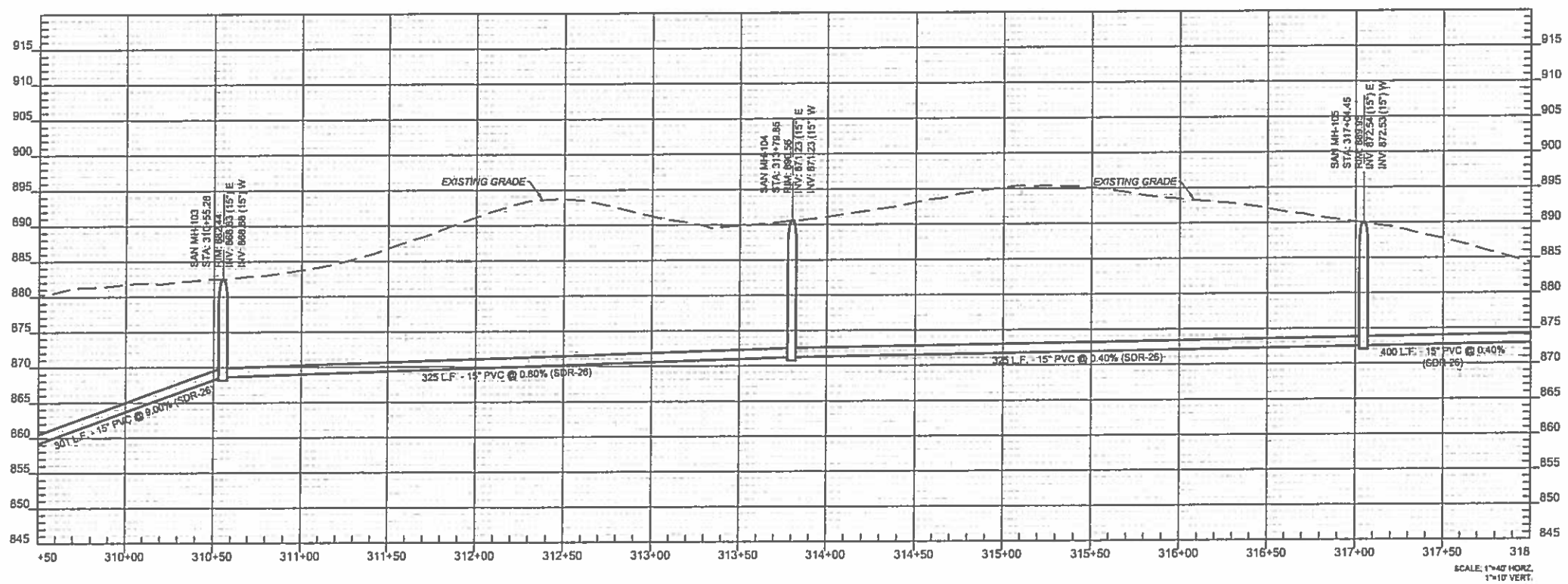
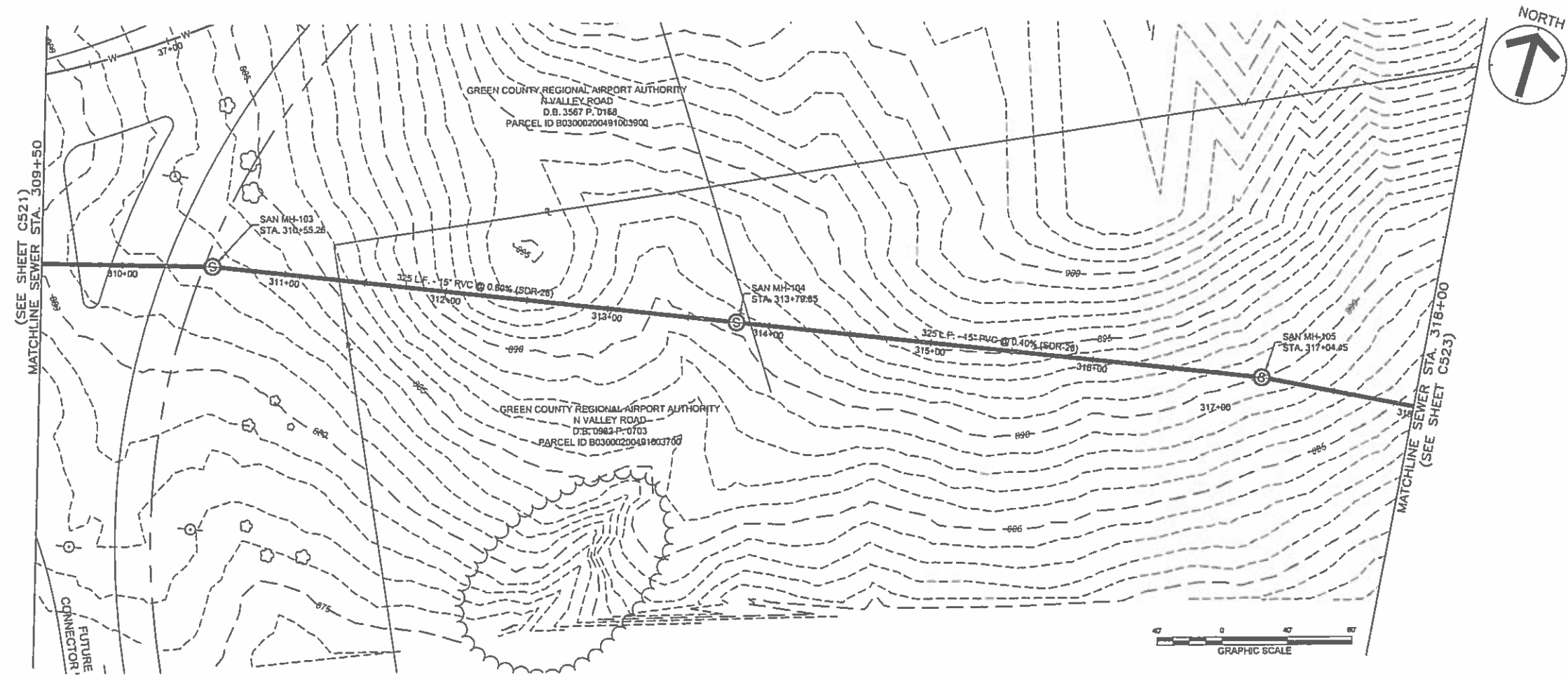
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No.	Date	Description
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SANITARY SEWER
PLAN AND PROFILE

C521

PROJECT: 42687.01
DATE: June 1, 2018
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FULL SHEET SIZE = 22"x34"

Drawn By: JTS
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XENIA, OHIO 45385

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This sheet has been signed, sealed, and dated properly.

Revision		
No.	Date	Description
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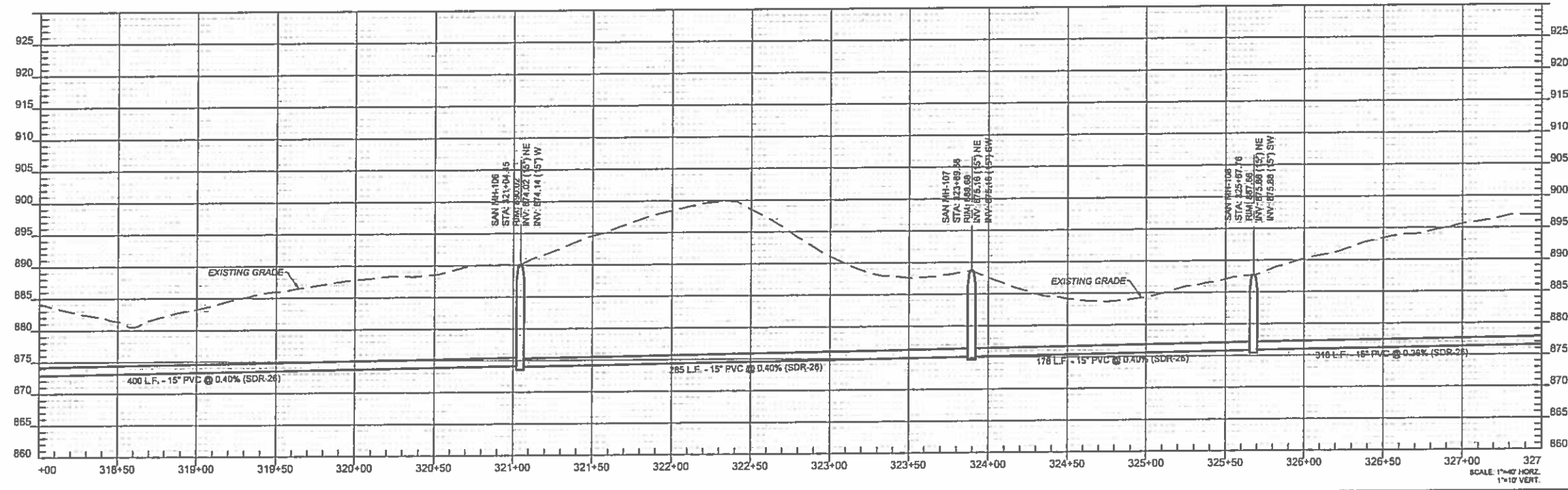
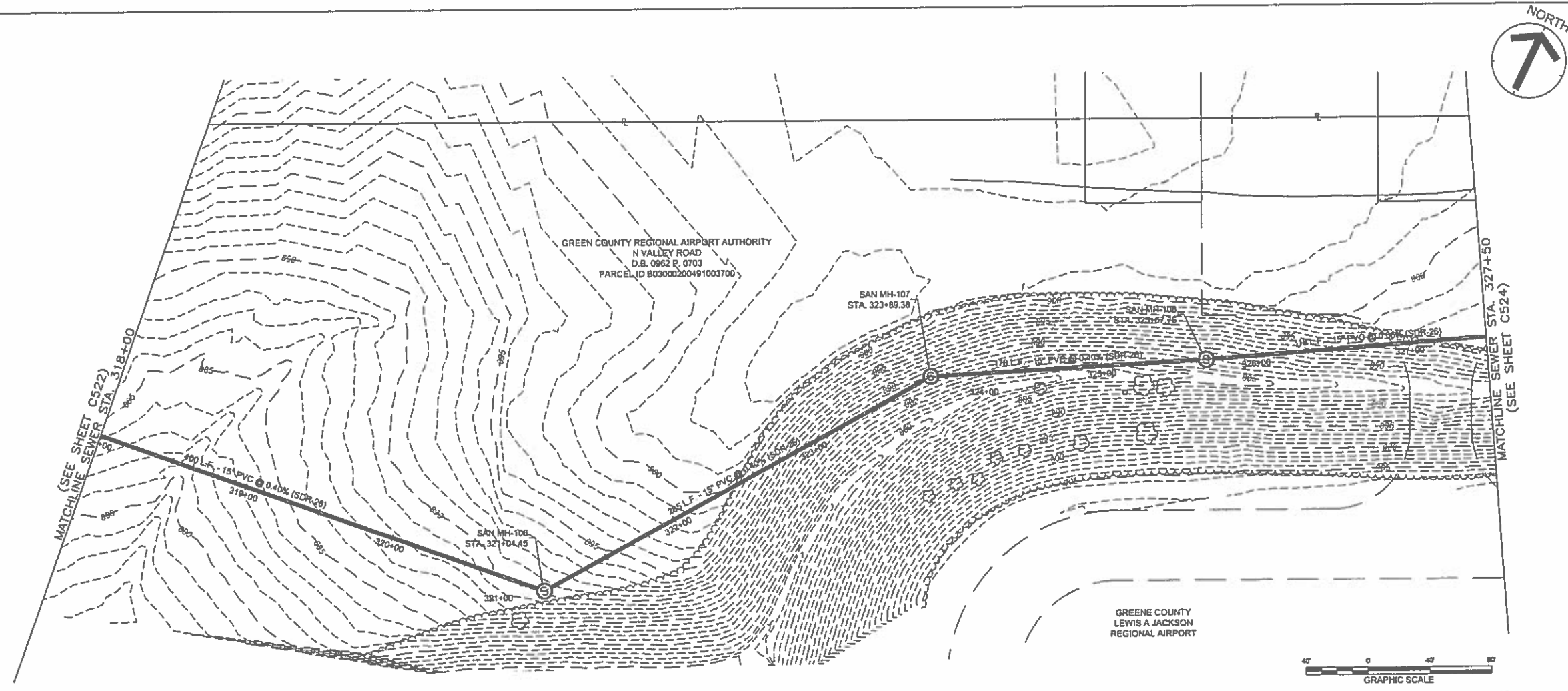
SANITARY SEWER
PLAN AND PROFILE

C522

PROJECT: 42587.01
DATE: June 1, 2018

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FULL SHEET SIZE = 22" X 34"

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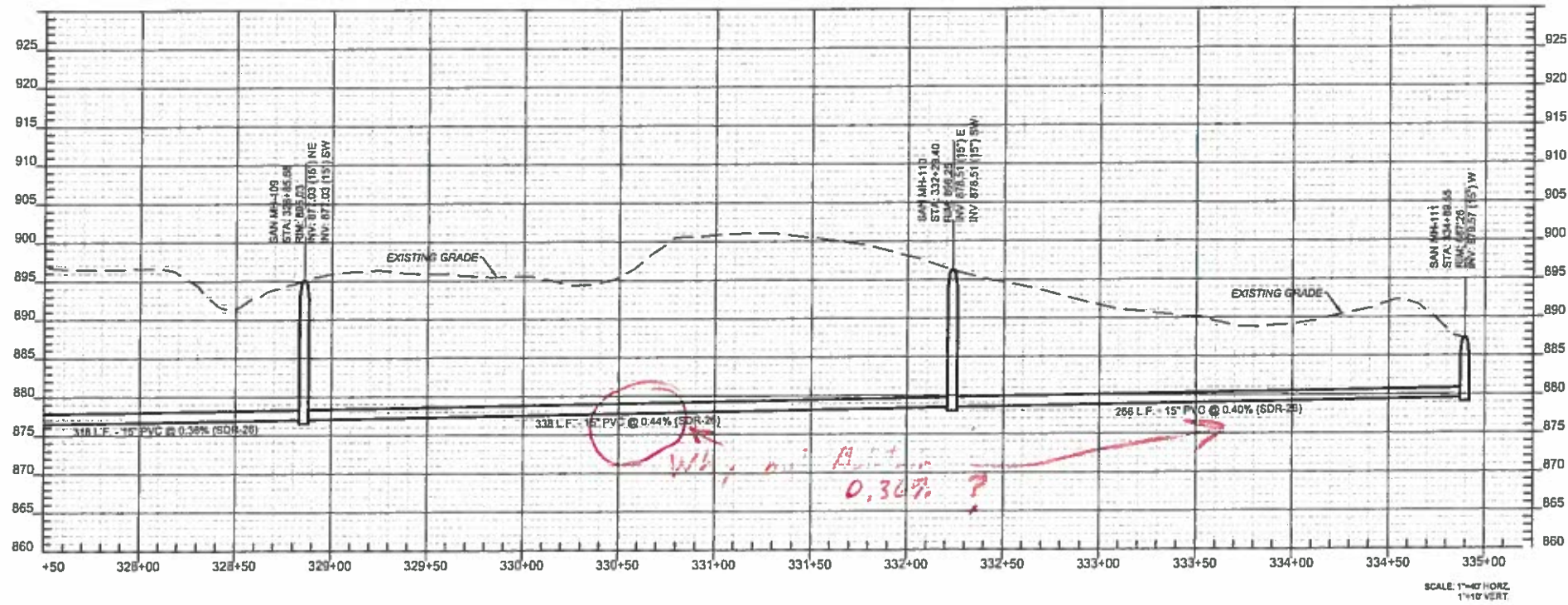
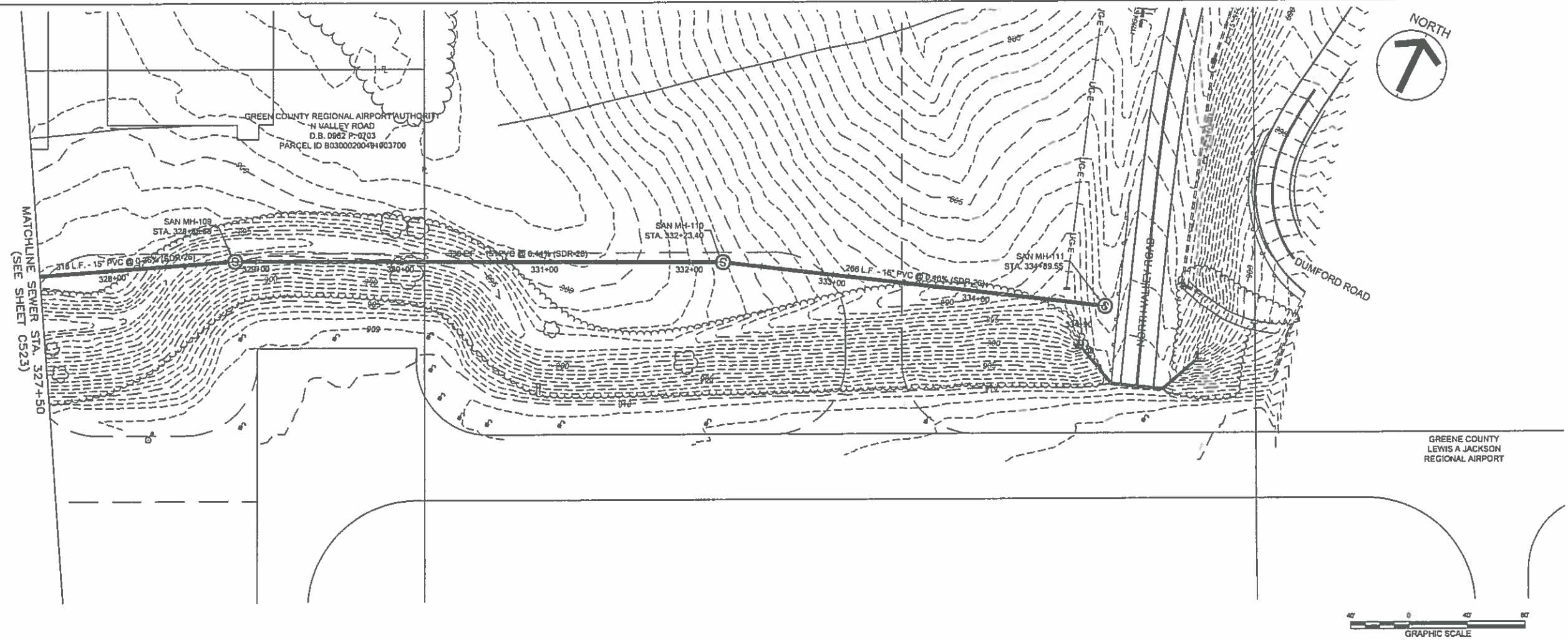
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Revision		
No.	Date	Description
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SANITARY SEWER
PLAN AND PROFILE

C523
PROJECT: 42687.01
DATE: June 1, 2018
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FULL SHEET SIZE = 22"x34"

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PLAN AND PROFILE

C524
PROJECT: 42687.01
DATE: June 1, 2018
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