



CITY OF TONTITOWN PLANNING OFFICE

201 E. Henri de Tonti Blvd.
479-361-2700
planning@tontitownar.gov

Meeting: **September 24, 2019**
Project: **NAPA Subdivision,**
Phase III
Planner: Rick Barry

AGENDA ITEM

G

PRELIMINARY LARGE-SCALE DEVELOPMENT PLAN APPROVAL REQUEST

Northeast Intersection of Ardemagni & Liberty Avenue

Parcel # 830-37795-000, 830-37795-001

SUMMARY: NorRho, LLC is requesting Preliminary Subdivision is requesting Preliminary Large-Scale Development (LSD) approval for 56 lots, 1 detention pond, and 2 roads to be constructed on 2 parcels, amounting to approx. 19.70 acres.

CURRENT ZONING: R-3 Single Family Residential

CITY WARD: 2 – Arthur Penzo, Larry Ardemagni

FLOODPLAIN: No

INFRASTRUCTURE SERVICE AREAS (not a guarantee of service availability):

Water: Tontitown Water, existing 8" line

Electric: Ozarks Electric

Sewer/Septic: Tontitown Sewer

Phone: Century Tel & AT&T

Natural Gas: SourceGas

Cable: Cox Communications

School District: Springdale

PROJECT SYNOPSIS:

NorRho, LLC is requesting Preliminary Subdivision is requesting Preliminary Large-Scale Development (LSD) approval for 56 lots, 1 detention pond, and 2 roads to be constructed on 2 parcels, amounting to approx. 19.70 acres.

TECHNICAL INFORMATION:

Utilities:

Water: Tontitown Water-According to the Water System information, there is an existing 6-inch water line along W. Henri de Tonti.

Electric: Ozarks Electric-No comments were received from OECC.

Sewer/Septic: Sewer- this project proposes to connect to the City of Tontitown sewer system. The connection must be approved prior to construction.

Phone: AT&T- No comments were received from ATT.

Natural Gas: SourceGas- No comments were received from SG.

Cable: Cox Communications- No comments were received from Cox.

It is the applicant's responsibility to coordinate any additional utility easements or connections as needed to service their property.

School District: Springdale school district was notified of this project, but submitted no comments.

Stormwater Pollution Prevention Plan (SWPPP):

The applicant has provided a grading a drainage plan. A SWPPP must be completed and posted on site prior to construction.

Police:

The Tontitown Chief of Police has no concerns with this project.

Fire:

There are six fire hydrants shown on the plans. The nearest offsite hydrant is on the West side of Ardemagni Drive, approximately 230 feet away from the proposed north entrance to the subdivision, with a fire flow of 1,313 gpm.

Each of the proposed roads, Brunello Avenue and Soldera Drive, have a 50' right-of-way and will be required to meet the compaction rating necessary to support emergency vehicles.

Drainage:

There is a detention pond proposed for this site. The applicant's engineer has submitted a drainage report for review.

The City Engineer has submitted comments addressing the resubmitted plans and drainage report. He is concerned about ensuring that the FFE of the lots on either side of the detention pond are included, as well as alterations to the gutters and inlets. Additional comments are noted and have been provided to the applicant's engineer. All remaining comments from the City Engineer must be addressed prior to Construction Plan approval.

Roads:

This project has access at two points on Ardemagni Drive, both of which are by way of the proposed road named Brunello Avenue. Additionally, there is a proposed road named Soldera Drive that runs parallel with Ardemagni Drive.

Site visibility appears to be adequate from both proposed access locations.

All interior drives must meet the required compaction rating to support emergency vehicles.

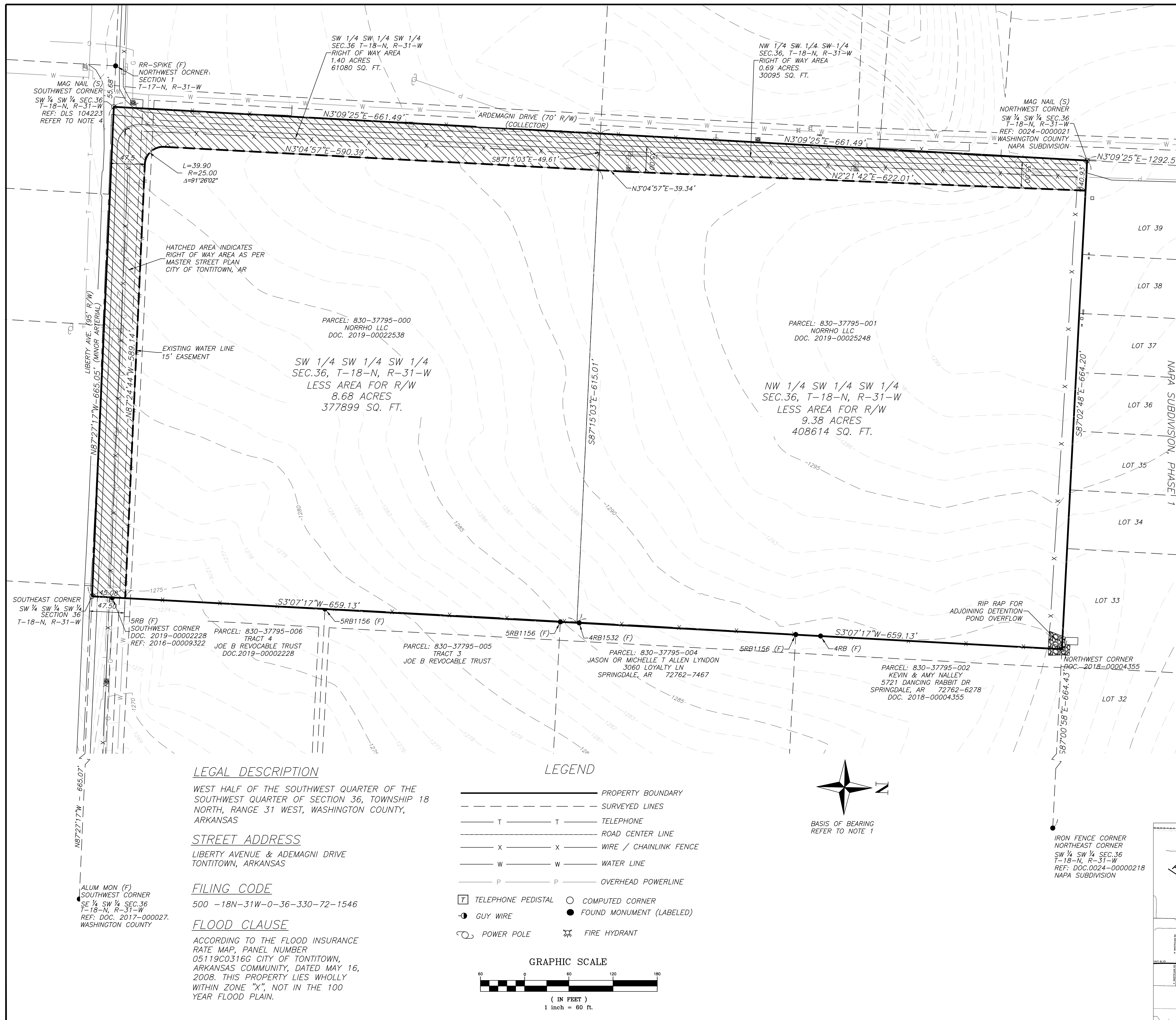
STAFF RECOMMENDATION: There are some details that remain to be addressed at the Construction Plan phase of plan review, but nothing that should significantly impact the overall design.

Therefore, staff recommends approval of NAPA Subdivision, Phase III Preliminary Large-Scale Development with conditions.

CONDITIONS RECOMMENDED FOR APPROVAL:

1. It is the applicant's responsibility to coordinate any additional utility easements or connections as needed to service their property.
2. The SWPPP must be completed and posted on site prior to construction.
3. All interior drives must meet the required compaction rating to support emergency vehicles.
4. Correct all comments from the City Engineer prior to Construction Plan approval.
5. Correct all comments from the City Public Works Director prior to Construction Plan approval.
6. The applicant must apply for all required permits prior to construction.





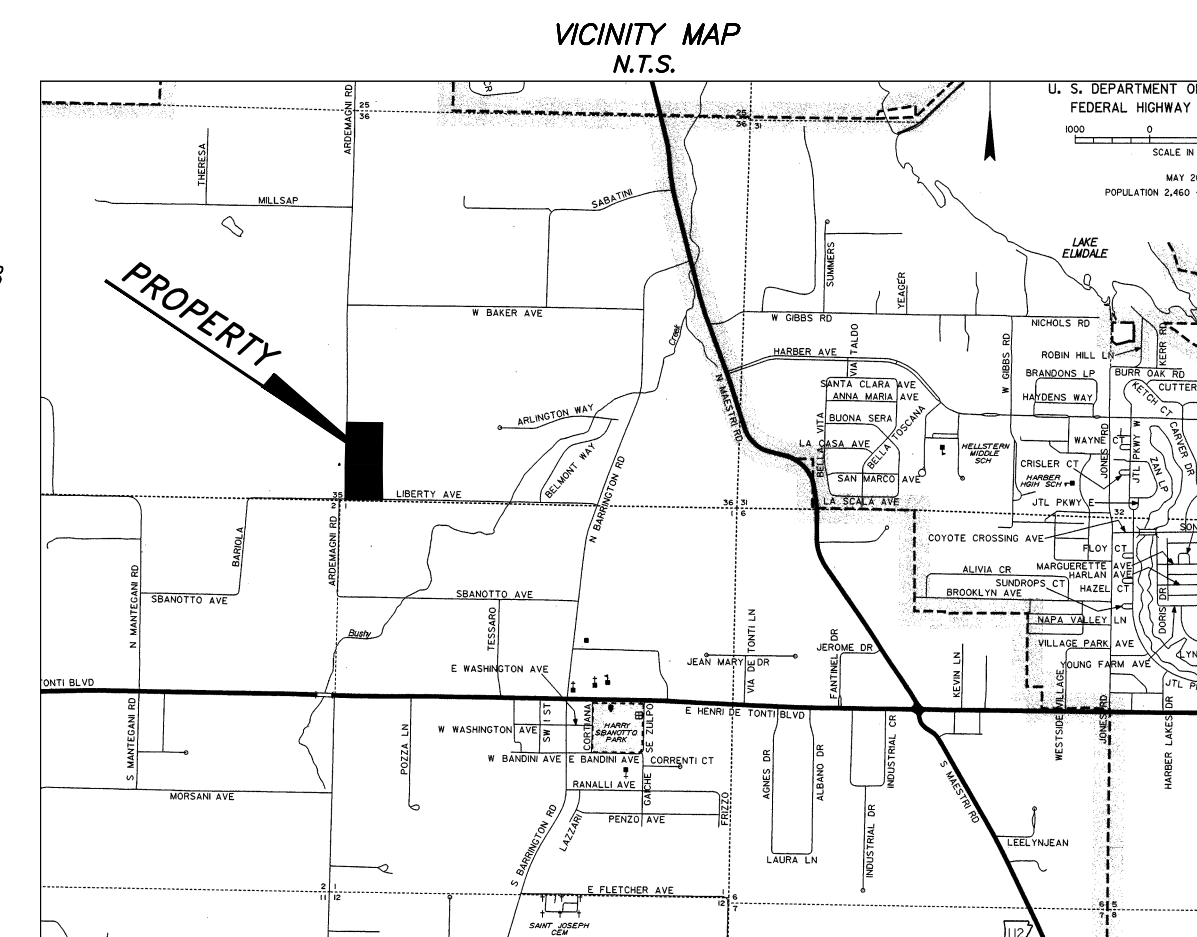
SURVEYORS NOTES:

1. BASIS OF BEARING FOR THIS SURVEY:
ARKANSAS STATE PLANE NAD83 NORTH GRID
2. VERTICAL DATUM: NAVD88 COMPUTED USING
GEOID12B WITH THE OPUS NETWORK
3. THE LOCATIONS OF THE UTILITY LINES ON THIS
SURVEY WERE DERIVED FROM EVIDENCE ON THE
SURFACE OF THE PROPERTY. UTILITY LOCATIONS ON
THIS MAP ARE FOR GENERAL REFERENCE THE
EXACT LOCATION MAY VARY. THE PRESENCE OF
ADDITIONAL UTILITY LINES ON THE PROPERTY IS A
POSSIBILITY. THEREFORE THIS FIRM ADVISES TO
HAVE ANY AND ALL UTILITY LOCATIONS CONFIRMED
AND LOCATED IN THE EVENT THEIR EXACT
LOCATION IS NEEDED.
4. WITNESS INFORMATION:
N 9°48'37" W 27.1' - 60D NAIL IN 10" POST
N 62°38'50" E 35.0' - INSIDE CORNER
CONCRETE RETAINING WALL

TITLE NOTE:

A TITLE SEARCH WAS NOT CONDUCTED BY THIS SURVEYOR, ALL DOCUMENTS ARE PROVIDED BY THE CLIENT AND/OR CLIENTS AND IS SUBJECT TO RECORDED AND/OR UNRECORDED EASEMENTS, ROAD RIGHTS OF WAY, COVENANTS, BUILDING SET BACK LINES, SUBDIVISION RESTRICTIONS, ZONING OR OTHER LAND USE REGULATIONS AND OTHER FACTS PROVIDED BY AN ACCURATE AND CURRENT TITLE SEARCH MAY ENCLOSE.

IT IS MY PROFESSIONAL OPINION THAT THIS
PLAT REPRESENTS A SURVEY CONDUCTED BY
ME OR UNDER MY DIRECT SUPERVISION. ALL
MONUMENTS SHOWN HEREON ACTUALLY EXIST
AND THEIR LOCATION, SIZE, TYPE, AND
MATERIAL ARE CORRECTLY SHOWN. THIS
SURVEY IS IN ACCORDANCE TO ARKANSAS
STANDARDS OF PRACTICE AS SET FORTH BY
THE ARKANSAS AGRICULTURE DEPARTMENT,
LAND SURVEY DIVISION.



BOUNDARY & TOPOGRAPHIC SURVEY
W $\frac{1}{2}$ OF THE SW $\frac{1}{4}$ OF THE SW $\frac{1}{4}$,
SECTION 36. T-18-N. R-31-W.

Prepared For:
NORRHO LLC
4825 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Scale: $1'' = 60'$	Date: $08/26/19$	No.	Revisions	Date
Sheet: f of 1				

CMN AND ASSOCIATES LLC
PROFESSIONAL SURVEYING
BOUNDARY • TOPOGRAPHICAL MAPPING
CONSTRUCTION DRAFTING & LAYOUT

5421 McGEE ROAD
BENTON, AR 72018
PHONE: (501) 860-5051

DETAILED PLANS:

NAPA SUBDIVISION

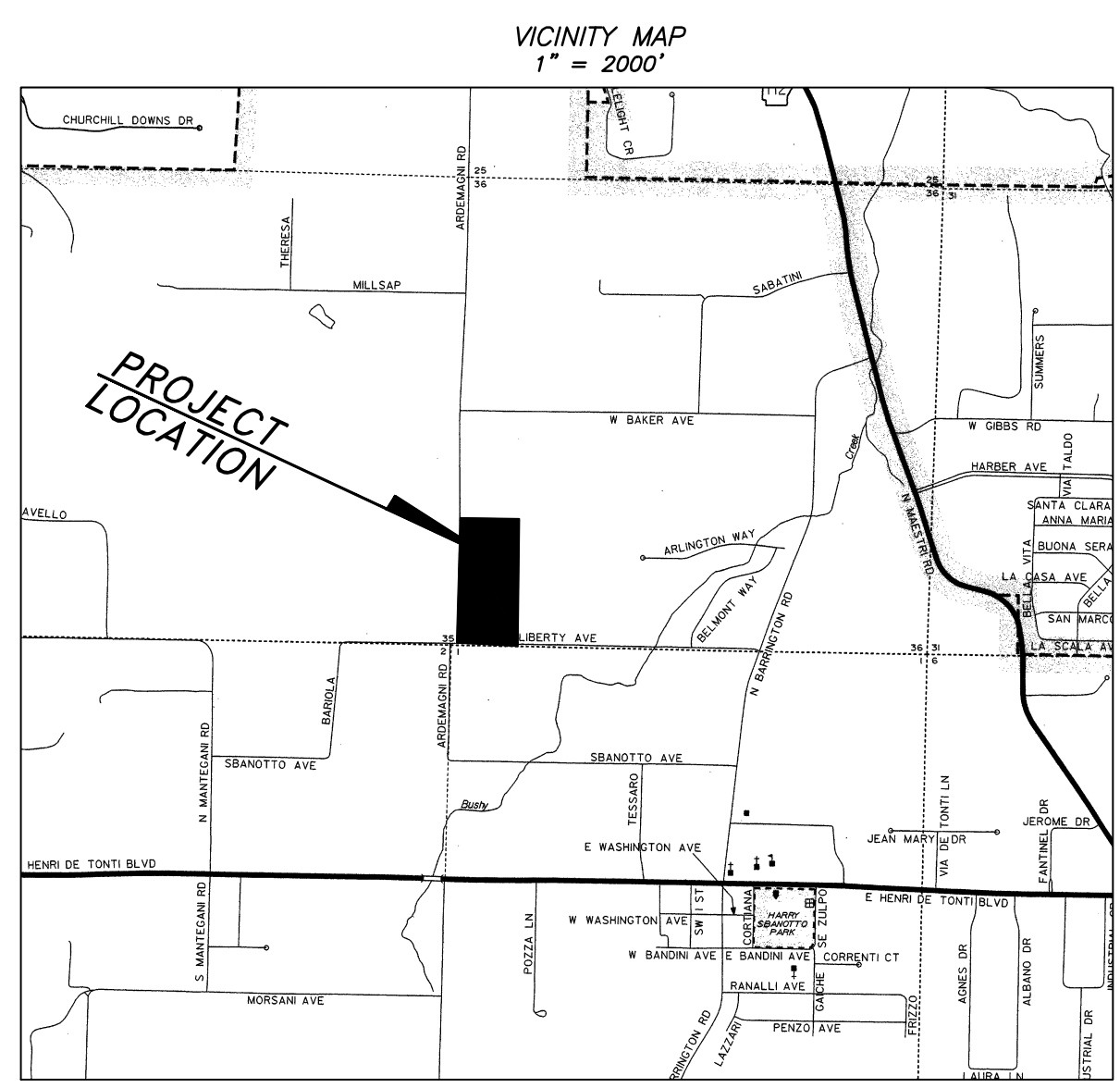
PHASE 3

PART OF THE SW $\frac{1}{4}$ OF THE
SW $\frac{1}{4}$, SECTION 36, T-18-N, R-31-W
WASHINGTON COUNTY, ARKANSAS

08/30/19
REV: 09/16/19

PREPARED FOR:

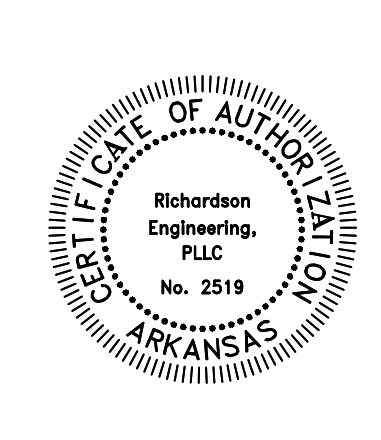
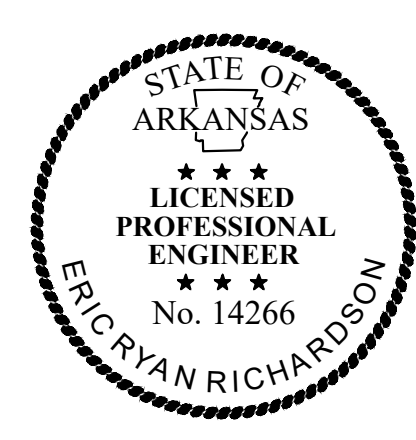
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703



Prepared By:



210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225



PLANNING PERMITS

PLANNING & ZONING DEPARTMENT
235 E. HENRI DE TONI BLVD.
TONTITOWN, AR 72270
CONTACT: COURTNEY McNAIR
PH. 479-361-2700

BUILDING DEPARTMENT
235 E. HENRI DE TONI BLVD.
TONTITOWN, AR 72270
CONTACT: JAMES CLARK
PH. 479-361-2700

UTILITIES

WATER & SEWER
TONTITOWN UTILITIES
201 E. HENRI DE TONI BLVD.
TONTITOWN, AR 72270
PH. 479-361-2700

TELEPHONE
AT&T
PH. 479-442-1963

GAS
BLACK HILLS ENERGY
PH. 888-890-5554

ELECTRIC
OZARKS ELECTRIC
PH. 479-684-4949

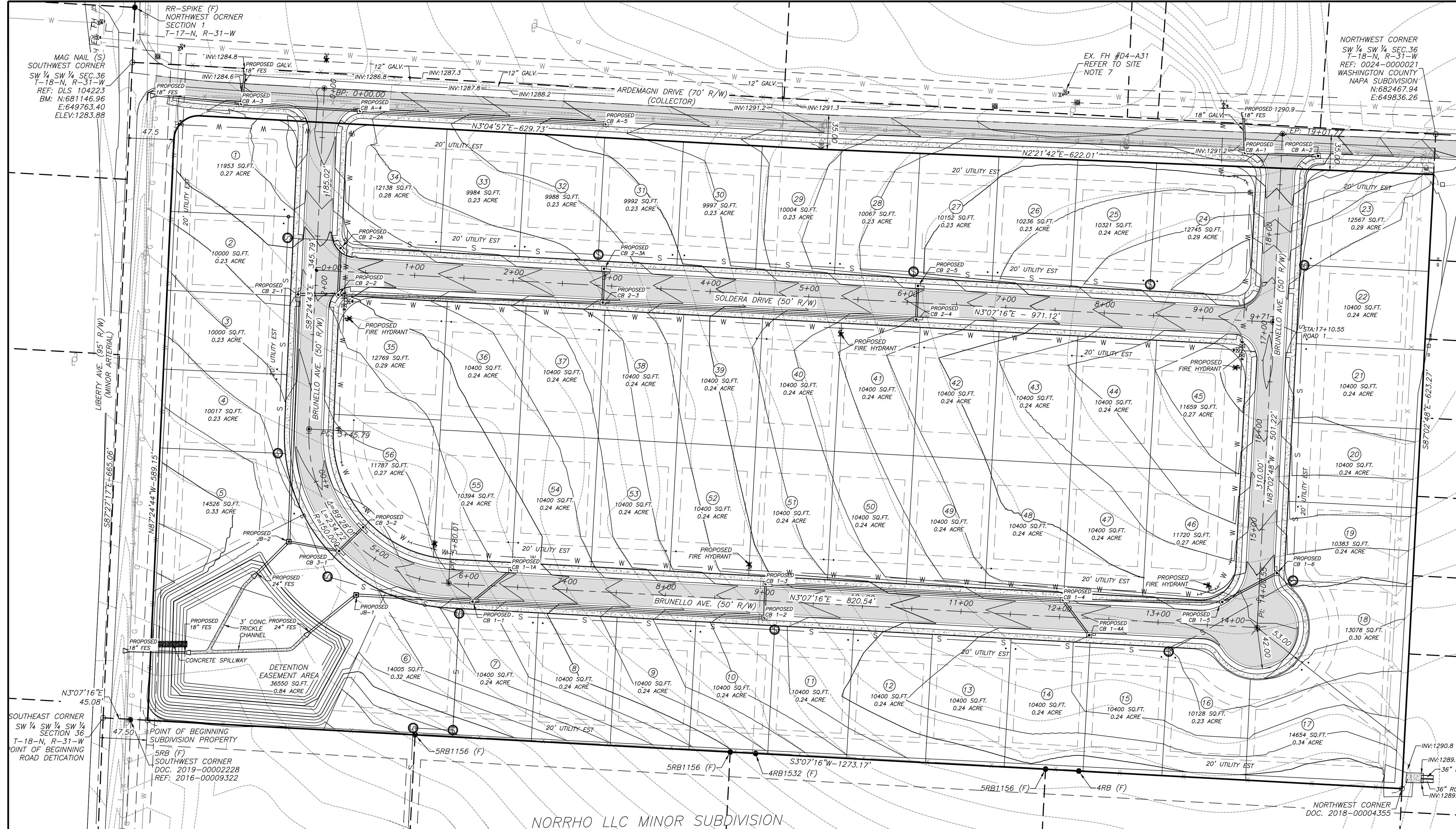
CABLE COMPANY
COX COMMUNICATION
4901 SOUTH 48TH STREET
SPRINGDALE, AR 72762
PH. 479-717-3730

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NOT FOR CONSTRUCTION
PRE-CONSTRUCTION COPY -

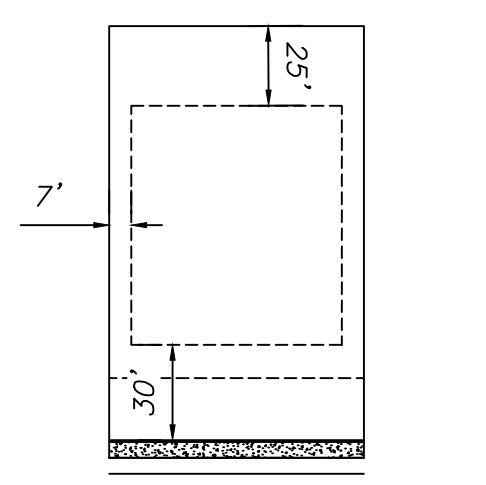
PLANS FOR BIDDING PURPOSES.
QUANTITIES TO BE VERIFIED PRIOR
TO CONSTRUCTION. CONTRACTOR
TO VERIFY GRADES WITH ENGINEER
PRIOR TO CONSTRUCTION.





OWNER / DEVELOPER
NORRHO LLC
4285 SHILOH DRIVE
FAYETTEVILLE, AR
DUANE RHODES 479-263-6243
CONTACT: KEVIN NALLEY
KINAXOFFICE@GMAIL.COM
479-200-2399

ENGINEER / SURVEYOR
RICHARDSON ENGINEERING
210 W. SEVIER STREET
BENTON, AR 72015
ENGINEER:
ERIC RICHARDSON PE#14266
501-249-3141
SURVEYOR:
MATT NALLEY PS#1546
501-860-5051



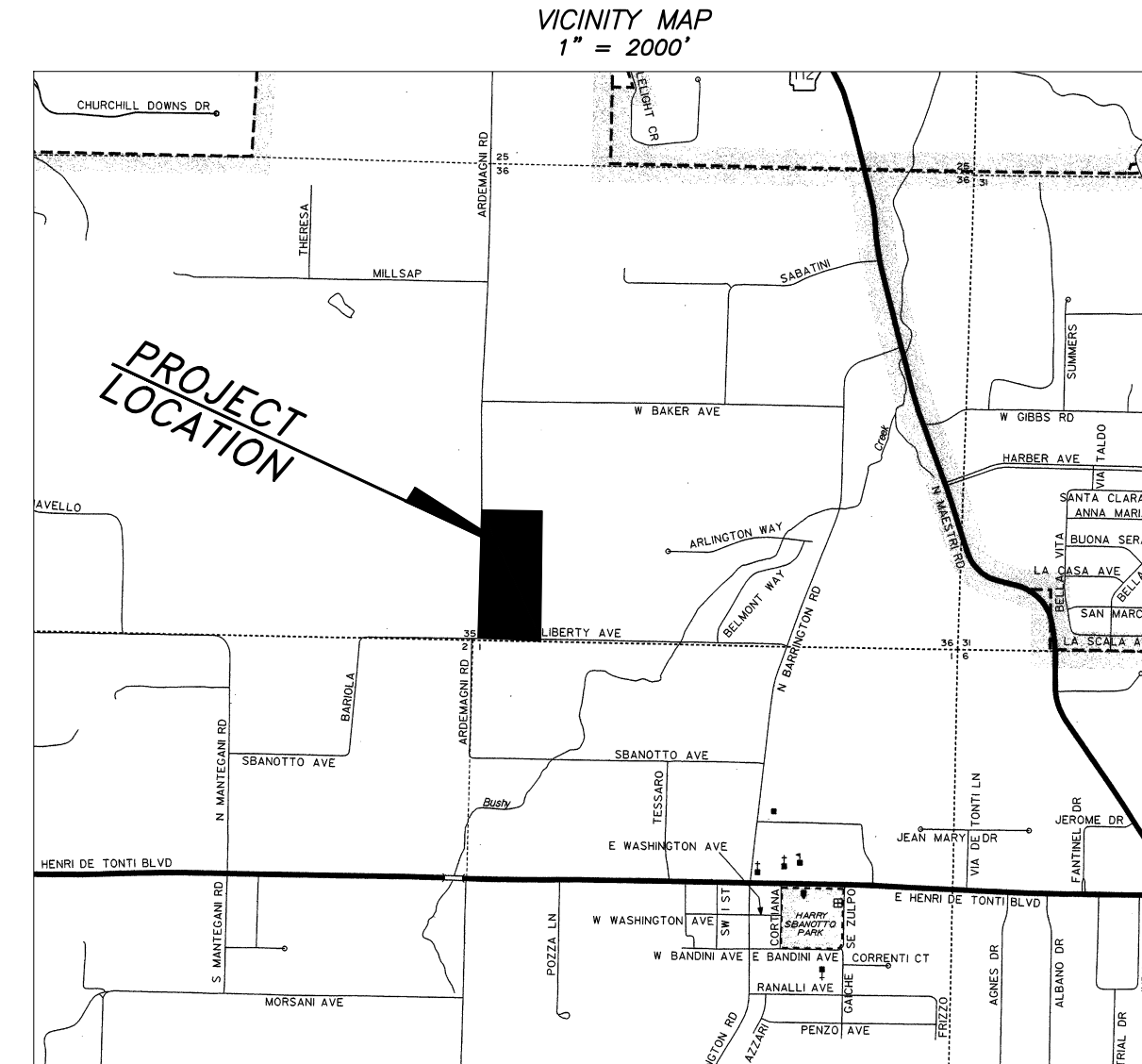
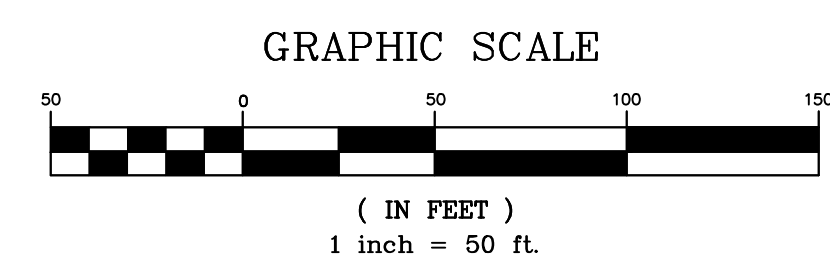
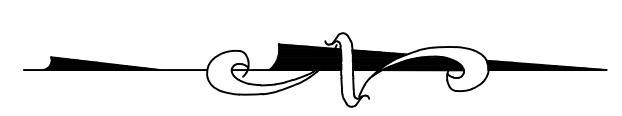
- LEGEND**
- PROPERTY BOUNDARY
 - SURVEYED LINES
 - TELEPHONE
 - ROAD CENTER LINE
 - WIRE / CHAINLINK FENCE
 - WATER LINE
 - OVERHEAD POWERLINE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - TELEPHONE PEDISTAL
 - GUY WIRE
 - POWER POLE
 - PROPOSED SANITARY SEWER MANHOLE
 - COMPUTED CORNER
 - FOUND MONUMENT (LABELED)
 - PROPOSED FIRE HYDRANT
 - PROPOSED CATCH BASIN

NORRHO LLC MINOR SUBDIVISION

- STREET ADDRESS**
LIBERTY AVENUE & ARDEMAGNI DRIVE
TONTOWN, ARKANSAS
- FILING CODE**
500 -18N-31W-0-36-330-72-1546
- FLOOD CLAUSE**
ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL NUMBER 05119C0316G CITY OF TONTOWN, ARKANSAS COMMUNITY, DATED MAY 16, 2008, THIS PROPERTY LIES WHOLLY WITHIN ZONE "X", NOT IN THE 100 YEAR FLOOD PLAIN.
- GENERAL NOTES:**
- BASIS OF BEARING FOR THIS SURVEY: ARKANSAS STATE PLANE NAD83 NORTH GRID BASIS OF BEARING FOR THIS SURVEY: ARKANSAS STATE PLANE NAD83 NORTH ZONE 0301 GRID CONVERGENCE ANGLE: -01°18'22" COMBINED SCALED FACTOR: 0.9999336 N: 681343.70 E: 649945.89
 - VERTICAL DATUM: NAVD83 COMPUTED USING ESTABLISHED BENCHMARK FOR NAPA SUBDIVISION, PHASE 1, TOP NUT OF FIRE HYDRANT LOCATED ON THE SOUTH SIDE AND ON THE MUTUAL PROPERTY LINE OF LOTS 58 AND 59. 1302.00' (NAVD 88)
 - THE LOCATIONS OF THE UTILITY LINES ON THIS SURVEY WERE DERIVED FROM EVIDENCE ON THE SURFACE OF THE PROPERTY. UTILITY LOCATIONS ON THIS MAP ARE FOR GENERAL REFERENCE THE EXACT LOCATION MAY VARY. THE PRESENCE OF ADDITIONAL UTILITY LINES ON THE PROPERTY IS A POSSIBILITY. THEREFORE THIS FIRM ADVISES TO HAVE ANY AND ALL UTILITY LOCATIONS CONFIRMED AND/OR LOCATED IN THE EVENT THEIR EXACT LOCATION IS NEEDED.
 - WITNESS INFORMATION FOR SECTION 36 SW CORNER:
N 9°48'37" W 27.1' - 600 NAIL IN 10" POST
N 62°38'50" E 35.0' - INSIDE CORNER CONCRETE RETAINING WALL

- SUBDIVISION INFORMATION**
- PROJECT IS ZONED R-3
 - SETBACK:
FRONT - 30'
SIDE - 7'
REAR - 25'
 - PROPOSED USE: SINGLE FAMILY RESIDENTIAL
 - LIGHT POLES SHALL BE PLACED AT ALL INTERSECTIONS AND SPACED 300' MAXIMUM THROUGHOUT THE DEVELOPMENT OR AS PER TONTOWN REQUIREMENTS. ALL STREET LIGHTING SHALL MEET CITY OF TONTOWN SPECIFICATIONS.
 - LOT CORNER RADI ARE TYPICAL 36' UNLESS OTHERWISE NOTED.
 - STORM DRAINAGE PIPES UNDER PROPOSED STREETS TO BE R.C.P.. STORM DRAINAGE OUTSIDE STREET LIMITS SHALL BE ADS-N12
 - ALL HOUSE SLABS MINIMUM FLOOR ELEVATIONS SHALL BE MINIMUM OF 6" ABOVE THE TOP OF CURB ON THE HIGH SIDE OF THE LOT.
- EASEMENTS:**
FRONT - 20'
SIDE - 5'
REAR - 20'

- SITE SPECIFIC INFORMATION**
- THERE IS NO VISUAL SURFACE EVIDENCE OF ABANDONED WATER WELLS, SUMPS, CESSPOOLS, SPRINGS, WATER IMPOUNDMENTS, AND UNDERGROUND STRUCTURES ON THIS PROJECT.
 - ACCORDING TO THE NATIONAL WETLANDS INVENTORY WEB SITE MAPPER, THERE ARE NO WETLANDS ON THIS PROJECT.
 - THERE ARE NO KNOWN POTENTIALLY DANGEROUS AREAS WITHIN THE PROJECT.
 - THERE ARE NO KNOWN GROUND LEASES OR ACCESS AGREEMENTS.
 - THERE ARE NO EXISTING EROSION PROBLEMS FOR THIS PROJECT.
 - DRIVEWAY LOCATIONS TO BE DETERMINED. CURB CUTS WILL NOT BE NECESSARY WITH MODIFIED CURB.
 - HYDRANT #04-A31: STATIC PSI=70, RESIDUAL=50, NOZZLE SIZE=2.5", GALLON PER MINUTE (GPM)= 1173



RICHARDSON ENGINEERING
Planning • Engineering • Development Consulting
210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225

PRELIMINARY PLAT
NAPA SUBDIVISION, PHASE 3
TO THE CITY OF TONTOWN,
WASHINGTON COUNTY, ARKANSAS
PART OF THE SW 1/4 OF THE SW 1/4, SECTION 36,
T-18-N, R-31-W

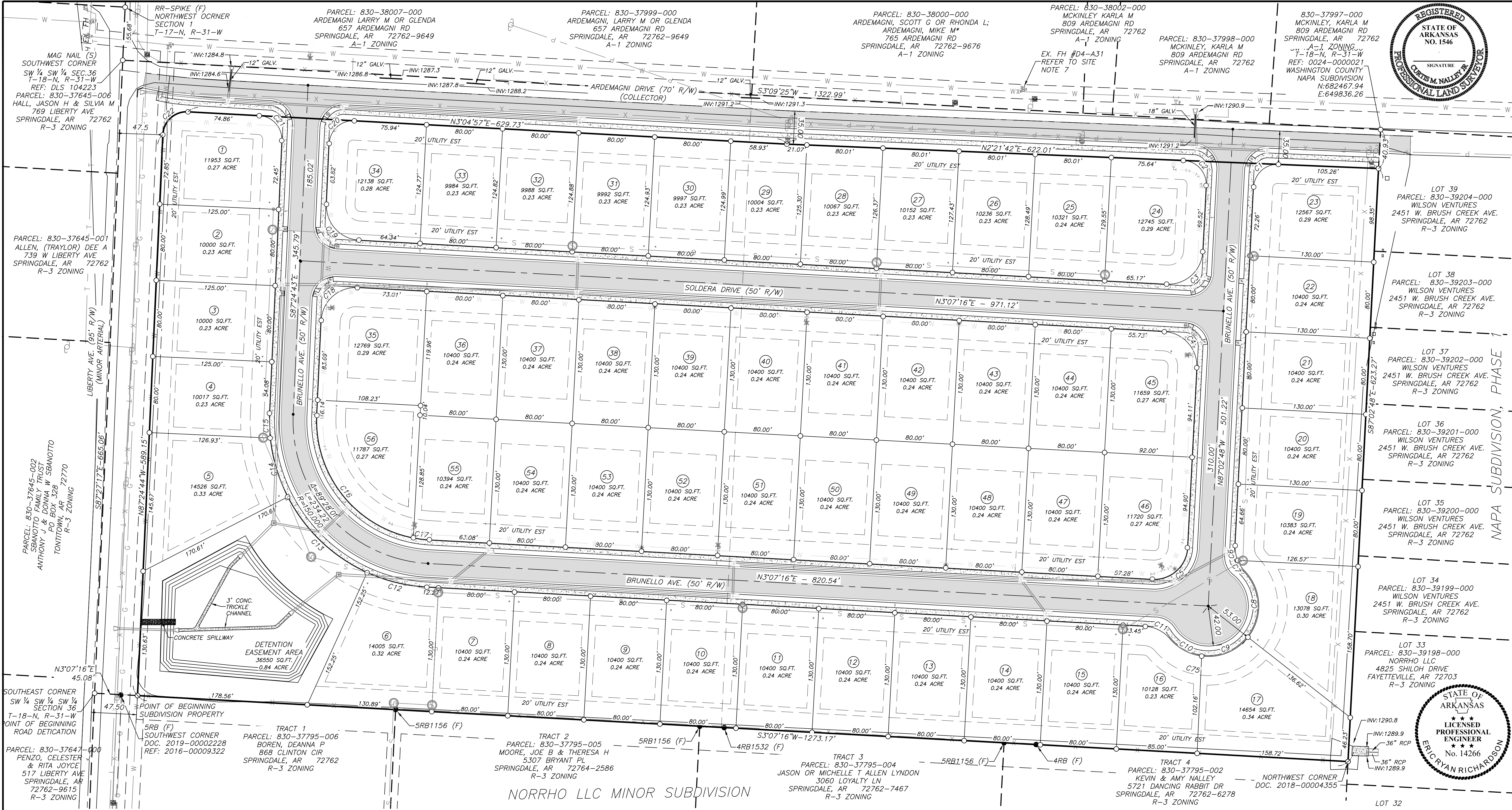
Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Date:
08/16/19

Revised:
08/30/19
REV 9/16/19

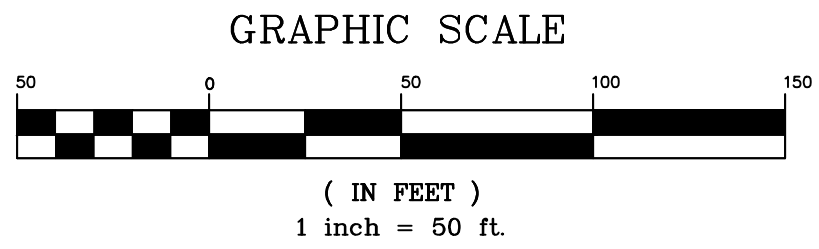
Scale:
1" = 50'

Sheet:
2 of 31



Curve Table				
Curve #	Length	Radius	Chord Direction	Chord Length
C1	39.01	25.00	N42° 20' 33"W	35.17
C2	39.53	25.00	N47° 39' 27"E	35.54
C3	56.65	36.00	S41° 57' 46"E	50.99
C4	56.44	36.00	N48° 02' 14"E	50.84
C5	55.08	35.00	S41° 57' 46"E	49.57
C6	15.84	36.00	S80° 20' 43"W	15.72
C7	13.52	36.00	S56° 58' 43"W	13.44
C8	75.76	53.00	S87° 10' 21"W	69.48
C9	54.91	53.00	N22° 11' 47"W	52.48
C10	39.20	53.00	N28° 40' 06"E	38.31
C11	29.36	36.00	N26° 29' 16"E	28.56
C12	64.91	175.00	N13° 44' 48"E	64.54
C13	117.43	175.00	N43° 35' 46"E	115.24

Curve Table				
Curve #	Length	Radius	Chord Direction	Chord Length
C14	64.90	175.00	N73° 26' 42"E	1285.51
C15	26.02	175.00	N88° 19' 45"E	1284.16
C16	178.22	125.00	S51° 44' 39"W	163.50
C17	16.97	125.00	S7° 00' 39"W	16.96
C18	56.88	36.00	N42° 08' 43"W	51.15
C19	56.21	36.00	S47° 51' 17"W	50.67
C20	39.50	25.00	N42° 09' 04"W	35.52
C21	39.04	25.00	N47° 50' 56"E	35.19
C22	39.90	25.00	N42° 15' 48"W	35.79



SUBDIVISION DESCRIPTION

THAT PART OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36, TOWNSHIP 18 NORTH, RANGE 31 WEST, WASHINGTON COUNTY, ARKANSAS MORE FULLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 36 AND RUN THENCE NORTH 87°27'17" WEST ALONG THE SOUTH LINE OF SAID SW ¼ SW ¼ A DISTANCE OF 665.07 FEET TO THE SOUTHEAST CORNER OF THE WEST HALF OF SAID SW ¼ SW ¼; THENCE NORTH ALONG THE EAST LINE OF SAID W ¼ SW ¼ SW ¼ A DISTANCE OF 45.08 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE OF LIBERTY AVE, BEING 47.5' NORTH OF THE CENTER LINE THEREOF; SAID POINT BEING THE POINT OF BEGINNING OF PROPERTY HERE IN DESCRIBED; THENCE NORTH 87°24'44" WEST ALONG THE NORTH RIGHT OF WAY OF SAID LIBERTY AVENUE A DISTANCE OF 589.15 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT A DISTANCE OF 39.90 FEET, SAID CURVE HAVING A CHORD BEARING OF NORTH 42°15'48" WEST, A CHORD DISTANCE OF 35.79 FEET, AND A RADIUS OF 25.0 FEET, TO A POINT ON THE EAST RIGHT OF WAY OF ARDEMAGNI DRIVE, SAID POINT BEING 35.0' EAST OF THE CENTERLINE THEREOF; THENCE NORTH 3°04'57" EAST ALONG THE RIGHT OF WAY OF SAID ARDEMAGNI DRIVE A DISTANCE OF 629.73 FEET; THENCE NORTH 2°21'42" EAST ALONG THE RIGHT OF WAY OF SAID ARDEMAGNI DRIVE A DISTANCE OF 622.01 FEET TO A POINT ON THE NORTH LINE OF SAID SW ¼ SW ¼; THENCE SOUTH 87°02'48" EAST ALONG THE NORTH LINE OF SAID SW ¼ SW ¼ A DISTANCE OF 623.27 FEET TO THE NORTHWEST CORNER OF PROPERTY DESCRIBED IN DOCUMENT 2018-00004355 OF THE WASHINGTON COUNTY, CIRCUIT CLERK OFFICE; THENCE SOUTH 3°07'16" WEST A DISTANCE OF 1273.17 FEET TO THE POINT OF BEGINNING, CONTAINING 18.06 ACRES MORE OR LESS.

RIGHT OF WAY DEDICATION DESCRIPTION FOR LIBERTY AVE. AND ARDEMAGNI DR.

THAT PART OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36, TOWNSHIP 18 NORTH, RANGE 31 WEST, WASHINGTON COUNTY, ARKANSAS MORE FULLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 36 AND RUN THENCE NORTH 87°27'17" WEST ALONG THE SOUTH LINE OF SAID SW ¼ SW ¼ A DISTANCE OF 665.07 FEET TO THE SOUTHEAST CORNER OF THE WEST HALF OF SAID SW ¼ SW ¼; THENCE NORTH ALONG THE EAST LINE OF SAID W ¼ SW ¼ SW ¼ A DISTANCE OF 45.08 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE OF LIBERTY AVE, BEING 47.5' NORTH OF THE CENTER LINE THEREOF; SAID POINT BEING THE POINT OF BEGINNING OF PROPERTY HERE IN DESCRIBED; THENCE NORTH 87°24'44" WEST ALONG THE NORTH RIGHT OF WAY OF SAID LIBERTY AVENUE A DISTANCE OF 589.15 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT A DISTANCE OF 39.90 FEET, SAID CURVE HAVING A CHORD BEARING OF NORTH 42°15'48" WEST, A CHORD DISTANCE OF 35.79 FEET, AND A RADIUS OF 25.0 FEET, TO A POINT ON THE EAST RIGHT OF WAY OF ARDEMAGNI DRIVE, SAID POINT BEING 35.0' EAST OF THE CENTERLINE THEREOF; THENCE NORTH 3°04'57" EAST ALONG THE RIGHT OF WAY OF SAID ARDEMAGNI DRIVE A DISTANCE OF 629.73 FEET; THENCE NORTH 2°21'42" EAST ALONG THE RIGHT OF WAY OF SAID ARDEMAGNI DRIVE A DISTANCE OF 622.01 FEET TO A POINT ON THE NORTH LINE OF SAID SW ¼ SW ¼; THENCE SOUTH 87°02'48" WEST ALONG THE NORTH LINE OF SAID SW ¼ SW ¼ A DISTANCE OF 40.93 FEET TO THE NORTHWEST CORNER OF SAID SW ¼ SW ¼; THENCE SOUTH 3°09'25" WEST ALONG THE WEST LINE OF SAID SW ¼ SW ¼ A DISTANCE OF 1322.99 FEET TO THE SOUTHWEST CORNER OF SAID SW ¼ SW ¼; THENCE SOUTH 87°27'17" EAST ALONG THE SOUTH LINE OF SAID SW ¼ SW ¼ A DISTANCE OF 665.05 FEET TO THE POINT OF BEGINNING, CONTAINING 2.09 ACRES

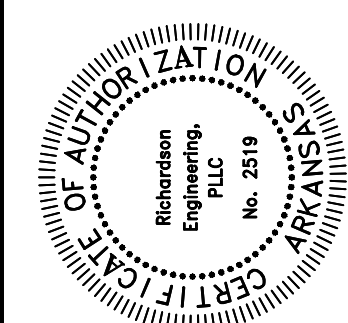
SOURCE OF TITLE FOR NORRHO LLC:
WASHINGTON COUNTY PUBLIC RECORDS, CIRCUIT CLERK:
TRUSTEE'S DEED DOC. 2019-00022538
TRUSTEE'S DEED DOC. 2019-00025248

LEGEND

- PROPERTY BOUNDARY
- SURVEYED LINES
- TELEPHONE
- ROAD CENTER LINE
- WIRE / CHAINLINK FENCE
- WATER LINE
- OVERHEAD POWERLINE
- TELEPHONE PEDISTAL
- GUY WIRE
- POWER POLE
- COMPUTED CORNER
- FOUND MONUMENT (LABELED)
- FIRE HYDRANT



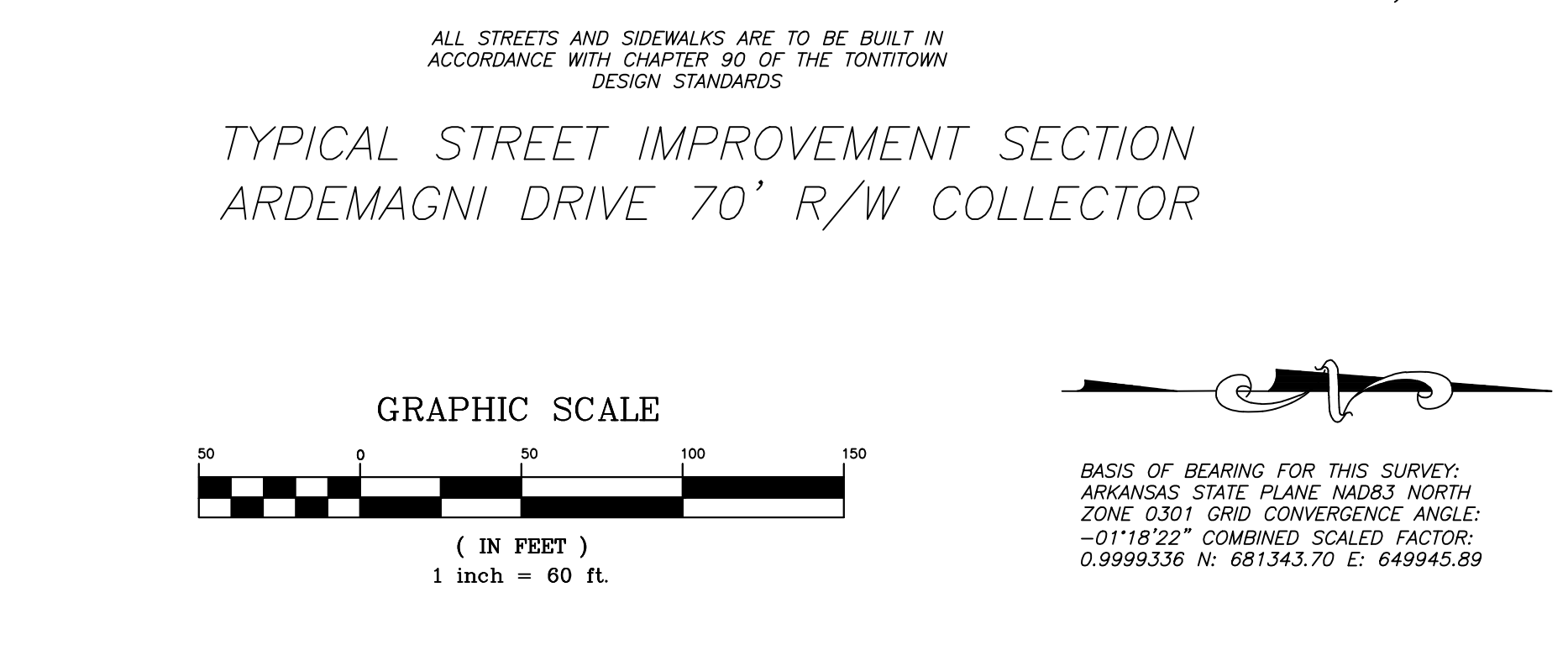
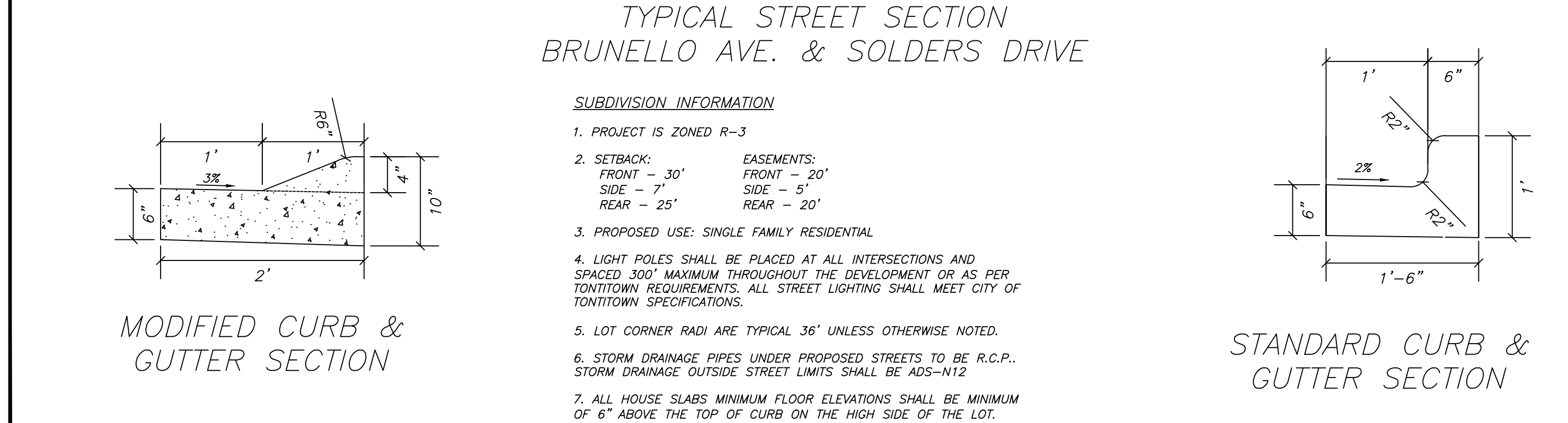
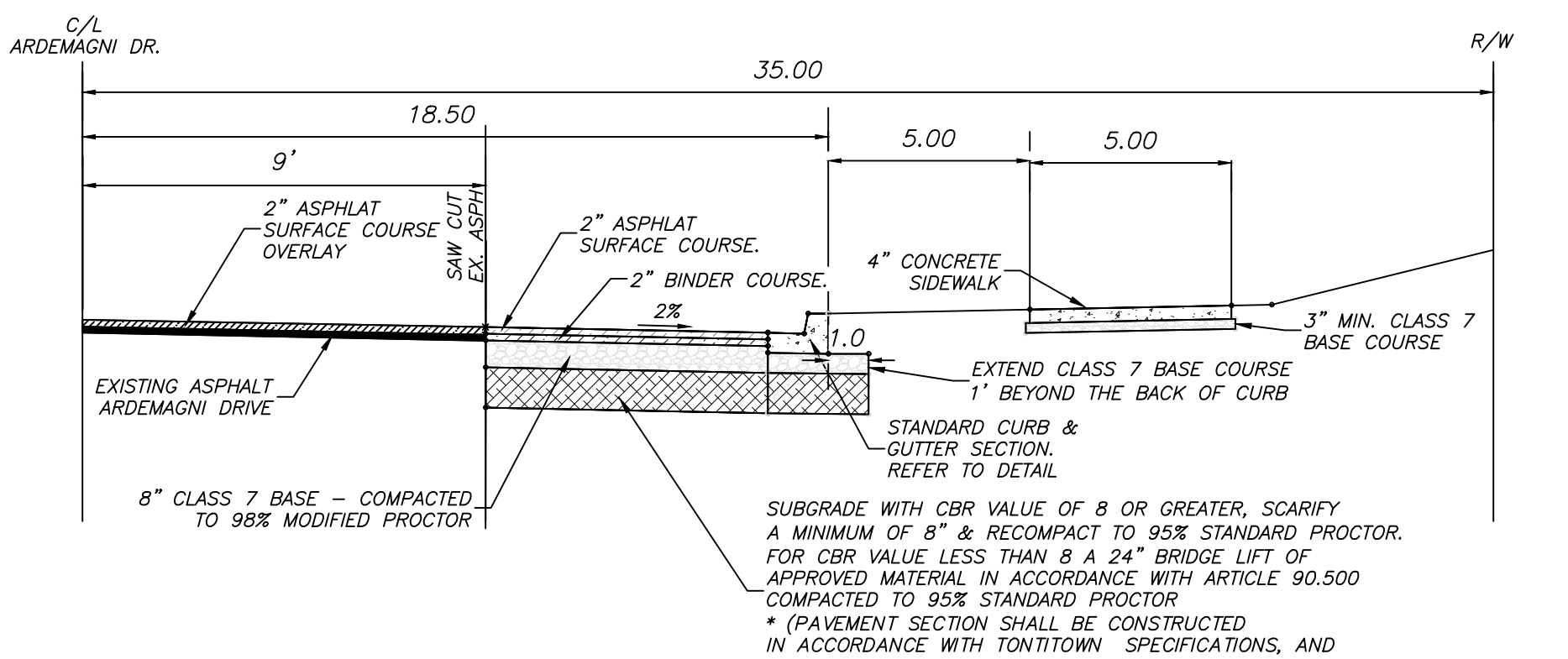
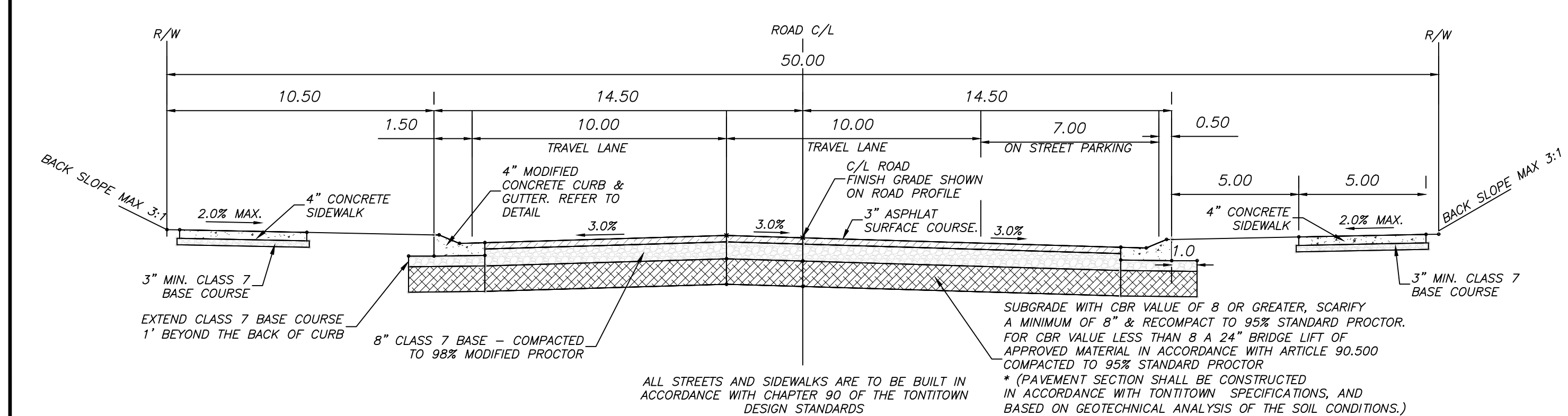
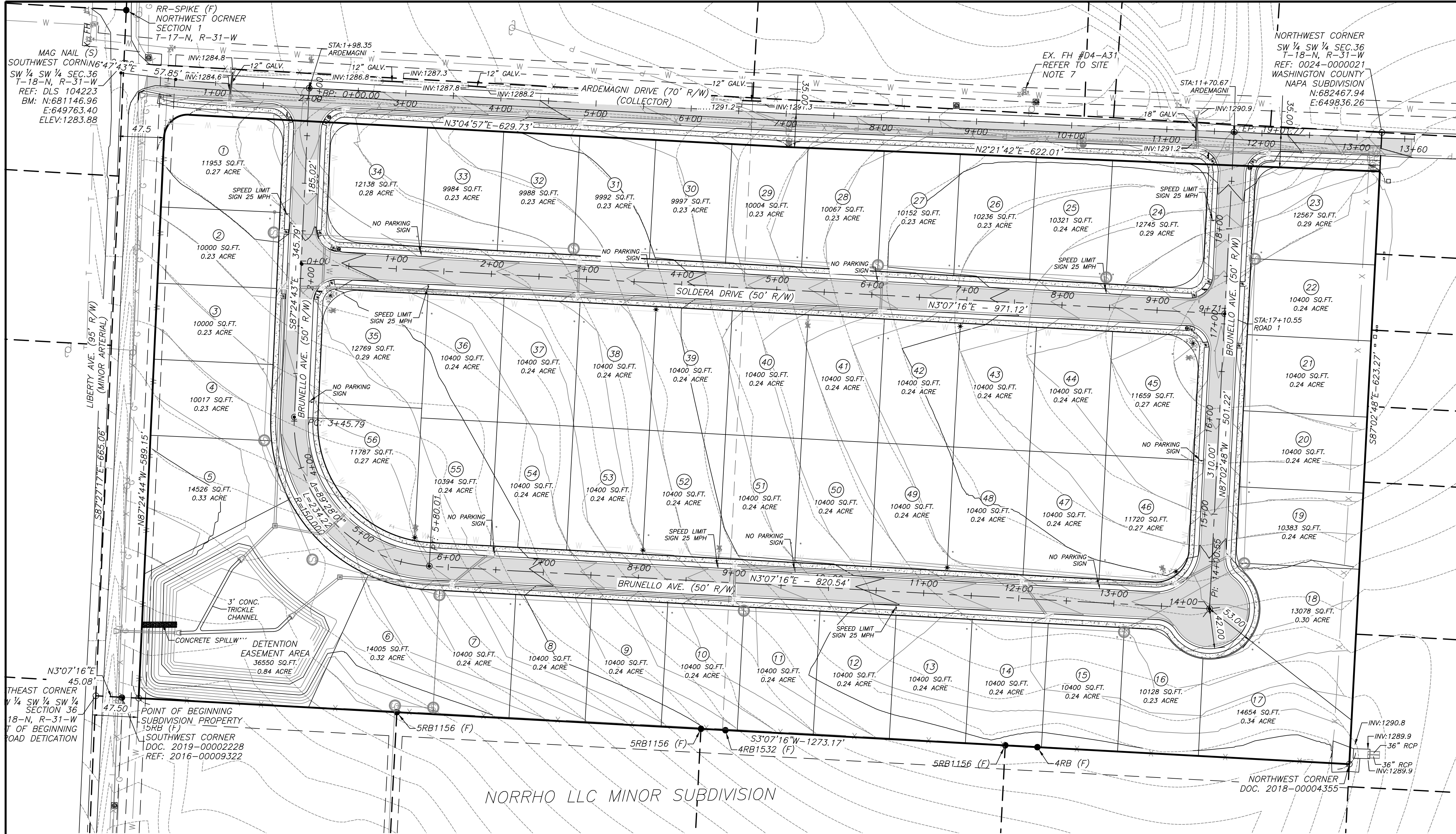
RICHARDSON ENGINEERING
Planning • Engineering • Development Consulting
210 W. SEVIER STREET, BENTON, AR 72015 (501)915-7225



PRELIMINARY PLAT LOT LAYOUT
NAPA SUBDIVISION, PHASE 3
TO THE CITY OF TONTOWN,
WASHINGTON COUNTY, ARKANSAS
PART OF THE SW ¼ OF THE SW ¼, SECTION 36,
T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Date	Revisions	Scale	Sheet
08/16/19	1	1" = 50'	3 of 31



SOIL SURVEY MAP INSET: SOURCE USDA

WASHINGTON COUNTY, ARKANSAS (AR143)

MAP UNIT SYMBOL	MAP UNIT NAME	ACRES IN AOI	PERCENT OF AOI
CaB	CAPTINA SILT LOAM TO 3 PERCENT SLOPES	9.9	53.8%
CaC2	CAPTINA SILT LOAM 3 TO 6 PERCENT SLOPES, ERODED	0.7	3.9%
NaC	NIKA VERY GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES	7.8	42.3%
TOTAL ACRES 18.4			

CERTIFICATE OF PRELIMINARY SURVEY ACCURACY

I, CURTIS MATHEW NALLEY JR, HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE BY ME AND ALL MONUMENTS SHOWN HEREON ACTUALLY EXIST AND THEIR LOCATION, SIZE, TYPE AND MATERIAL ARE CORRECTLY SHOWN.

DATE OF EXECUTION: 08/30/2019

CURTIS MATHEW NALLEY JR, PLS
STATE OF ARKANSAS REGISTRATION NO. 1546

CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY

EACH SET OF STREET AND DRAINAGE PLANS MUST BE SUBMITTED IN ACCORDANCE WITH APPLICABLE STATE STATUTES AND ANY PLANS AND SPECIFICATIONS REQUIRED.

I, ERIC RYAN RICHARDSON, HEREBY CERTIFY THAT THIS PLAN CORRECTLY REPRESENTS A PLAN MADE UNDER MY DIRECTION AND ENGINEERING REQUIREMENTS OF THE TONTIOWN SUBDIVISION REGULATIONS HAVE BEEN COMPLIED WITH

DATE OF EXECUTION: 08/30/2019

ERIC RYAN RICHARDSON, PE
STATE OF ARKANSAS REGISTRATION NO. 14266

THIS PLAT HAS BEEN GIVEN PRELIMINARY PLAT APPROVAL ONLY AND HAS NOT BEEN APPROVED FOR RECORDING PURPOSES AS A PUBLIC RECORD. THIS CERTIFICATE SHALL EXPIRE ON _____

DATE OF EXECUTION: _____

SIGNED: _____

TONTIOWN PLANNING COMMISSION CHAIRMAN

LEGEND

- PROPERTY BOUNDARY
- SURVEYED LINES
- TELEPHONE
- ROAD CENTER LINE
- WIRE / CHAINLINK FENCE
- WATER LINE
- OVERHEAD POWERLINE
- GUY WIRE
- POWER POLE
- PROPOSED SANITARY SEWER MANHOLE
- STOP SIGN
- STREET NAME SIGN
- PROPOSED FIRE HYDRANT
- PROPOSED CATCH BASIN
- TRAFFIC SIGN
- STREET LIGHT
- ADA APPROVED HANDICAP RAMP

RICHARDSON ENGINEERING
Planning • Engineering • Development Consulting
210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225

PRELIMINARY PLAT STREET
NAPA SUBDIVISION, PHASE 3
TO THE CITY OF TONTIOWN,
WASHINGTON COUNTY, ARKANSAS
PART OF THE SW 1/4 OF THE SW 1/4, SECTION 36,
T-18-N, R-31-W

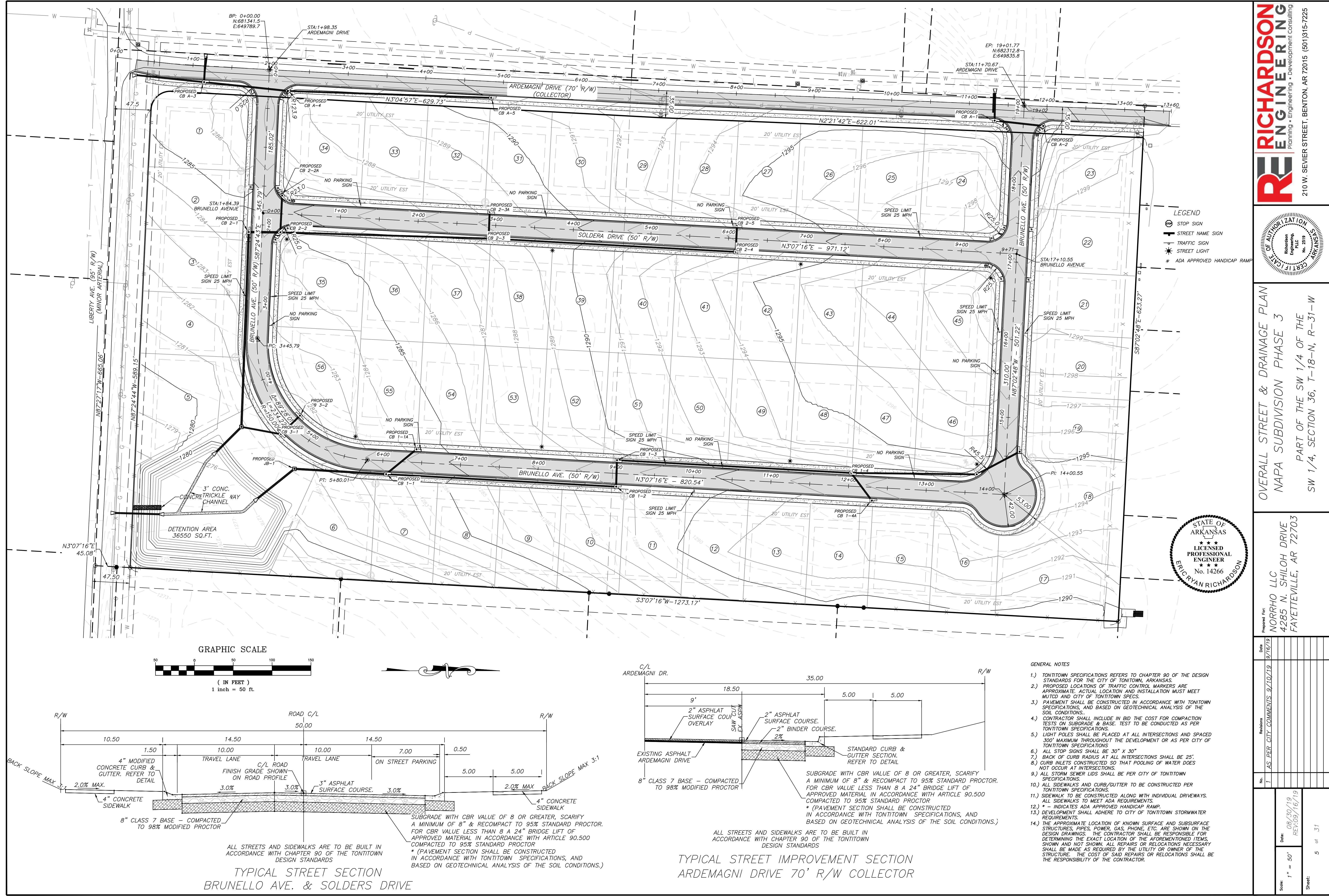
Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Date: 08/16/19

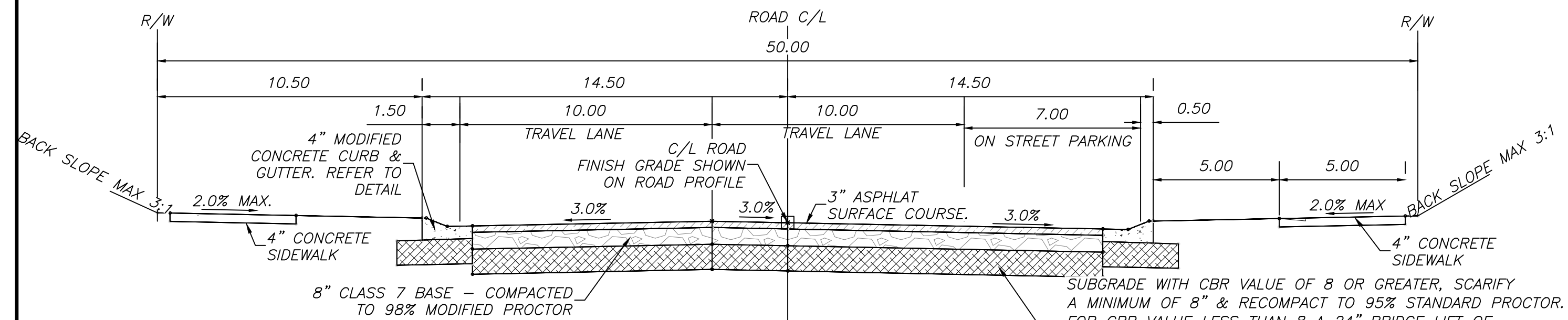
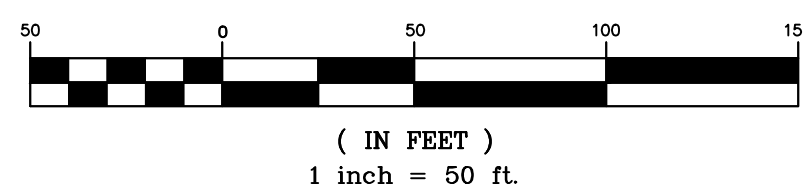
Revisions:
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Scale: 1" = 60'

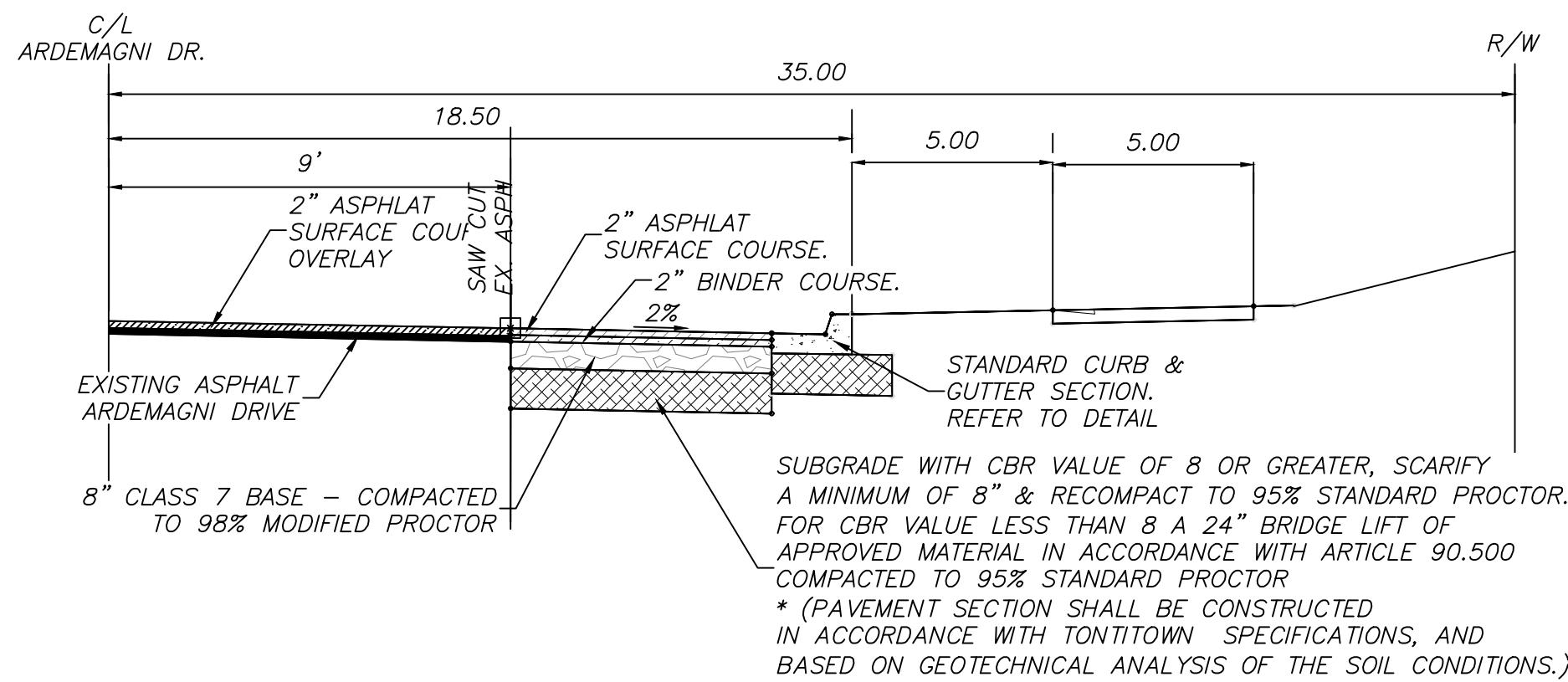
Sheet: 4 of 31



GRAPHIC SCALE



TYPICAL STREET SECTION
BRUNELLO AVE. & SOLDERS DRIVE



TYPICAL STREET IMPROVEMENT SECTION
ARDEMAGNI DRIVE 70' R/W COLLECTOR

GENERAL NOTES

- 1.) TONTOWN SPECIFICATIONS REFERS TO CHAPTER 90 OF THE DESIGN STANDARDS FOR THE CITY OF TONTOWN, ARKANSAS.
- 2.) PROPOSED LOCATIONS OF TRAFFIC CONTROL MARKERS ARE APPROXIMATE. ACTUAL LOCATION AND INSTALLATION MUST MEET MUTCD AND CITY OF TONTOWN SPECS.
- 3.) PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH TONTOWN SPECIFICATIONS, AND BASED ON GEOTECHNICAL ANALYSIS OF THE SOIL CONDITIONS.
- 4.) CONTRACTOR SHALL INCLUDE IN BID THE COST FOR COMPACTION TESTS ON SUBGRADE & BASE. TEST TO BE CONDUCTED AS PER TONTOWN SPECIFICATIONS.
- 5.) LIGHT POLES SHALL BE PLACED AT ALL INTERSECTIONS AND SPACED 300' MAXIMUM THROUGHOUT THE DEVELOPMENT OR AS PER CITY OF TONTOWN SPECIFICATIONS.
- 6.) ALL STOP SIGNS SHALL BE 30" X 30"
- 7.) BACK OF CURB RADIUS AT ALL INTERSECTIONS SHALL BE 25'.
- 8.) CURB INLETS CONSTRUCTED SO THAT POOLING OF WATER DOES NOT OCCUR AT INTERSECTIONS.
- 9.) ALL STORM SEWER LIDS SHALL BE PER CITY OF TONTOWN SPECIFICATIONS.
- 10.) ALL SIDEWALKS AND CURB/GUTTER TO BE CONSTRUCTED PER TONTOWN SPECIFICATIONS.
- 11.) SIDEWALK TO BE CONSTRUCTED ALONG WITH INDIVIDUAL DRIVEWAYS. ALL SIDEWALKS TO MEET ADA REQUIREMENTS.
- 12.) * INDICATES ADA APPROVED HANDICAP RAMP.
- 13.) DEVELOPMENT SHALL ADHERE TO CITY OF TONTOWN STORMWATER REQUIREMENTS.
- 14.) THE APPROXIMATE LOCATION OF KNOWN SURFACE AND SUBSURFACE STRUCTURES, PIPES, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE DESIGN DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE AFOREMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE UTILITY OR OWNER OF THE STRUCTURE. THE COST OF SAID REPAIRS OR RELOCATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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RE

210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225

SEAL

Professional Engineer
Richardson
Engineering
No. 2519
Arkansas

STATE OF ARKANSAS
LISCENSED PROFESSIONAL ENGINEER
No. 14266
ERIC RYAN RICHARDSON

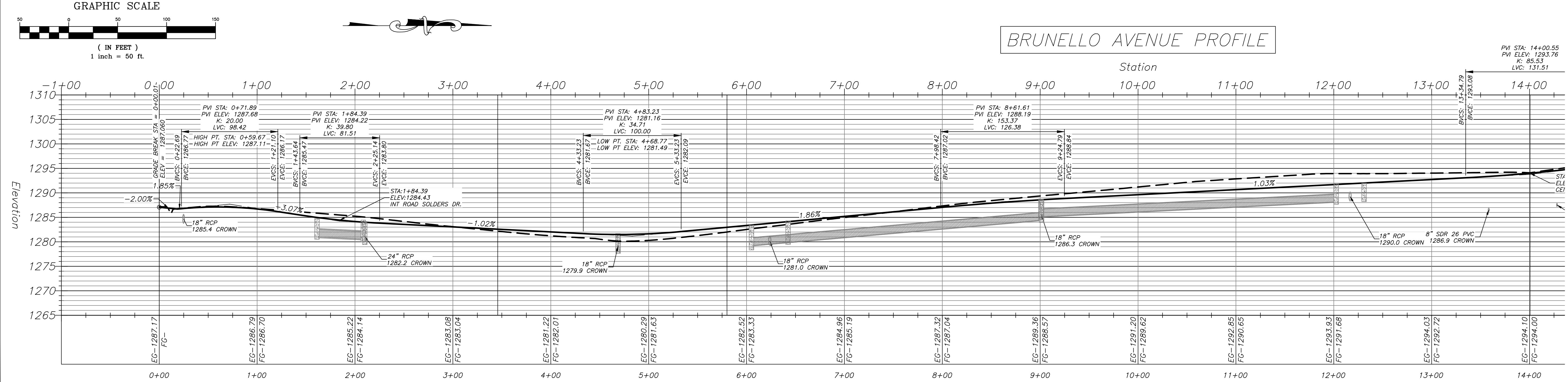
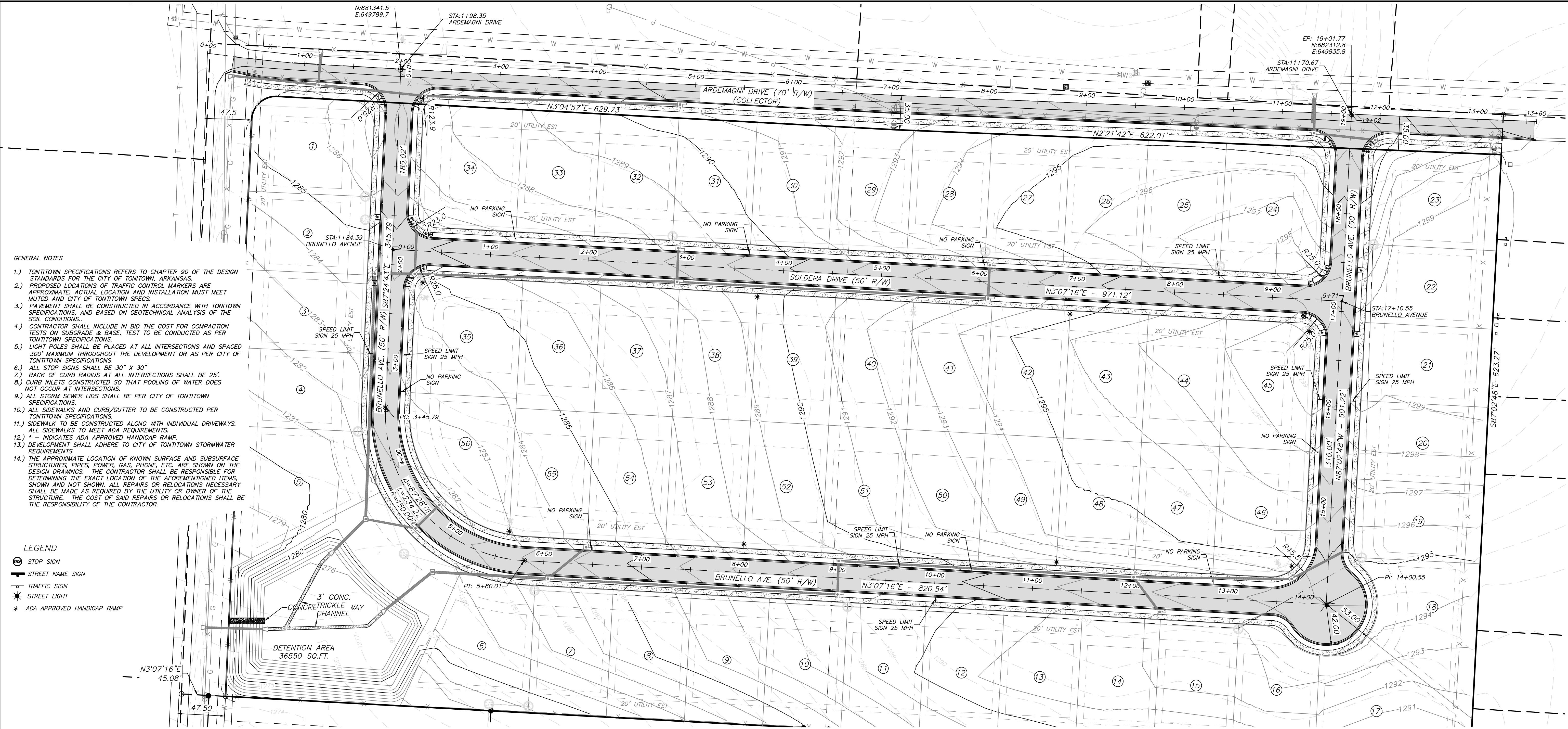
OVERALL STREET & DRAINAGE PLAN
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

AS PER CITY COMMENTS 9/10/19

Scale: 1" = 50'

Sheet: 5 of 31



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SEAL OF THE STATE OF ARKANSAS
JULIUS ROBERTSON
Professional Engineer
No. 2519

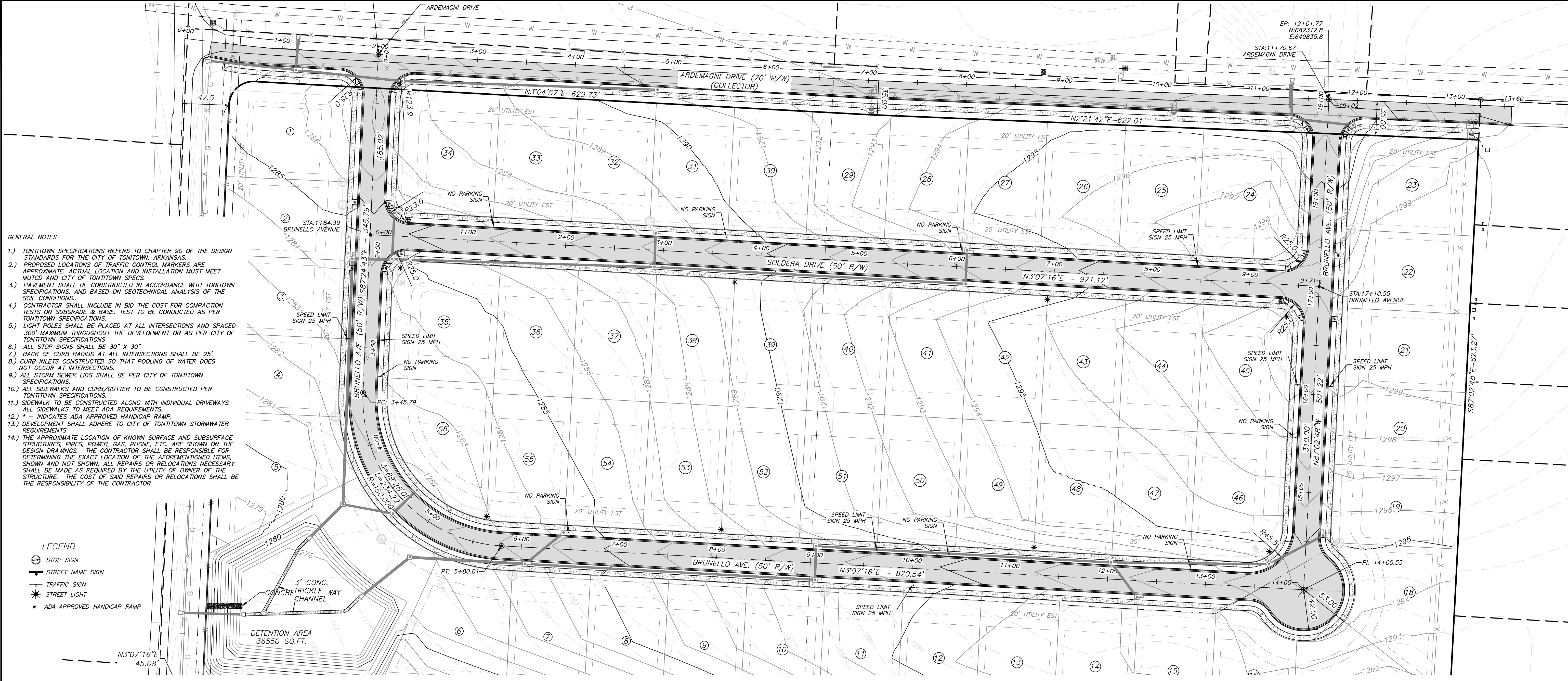
BRUNELLO AVE. PLAN & PROFILE
0+00 - 13+00
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

AS PER CITY COMMENTS: 9/10/19

DATE: 08/30/19
REV: 09/16/19

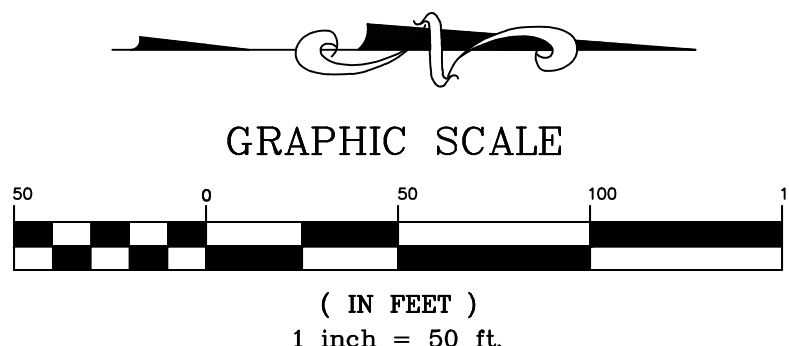
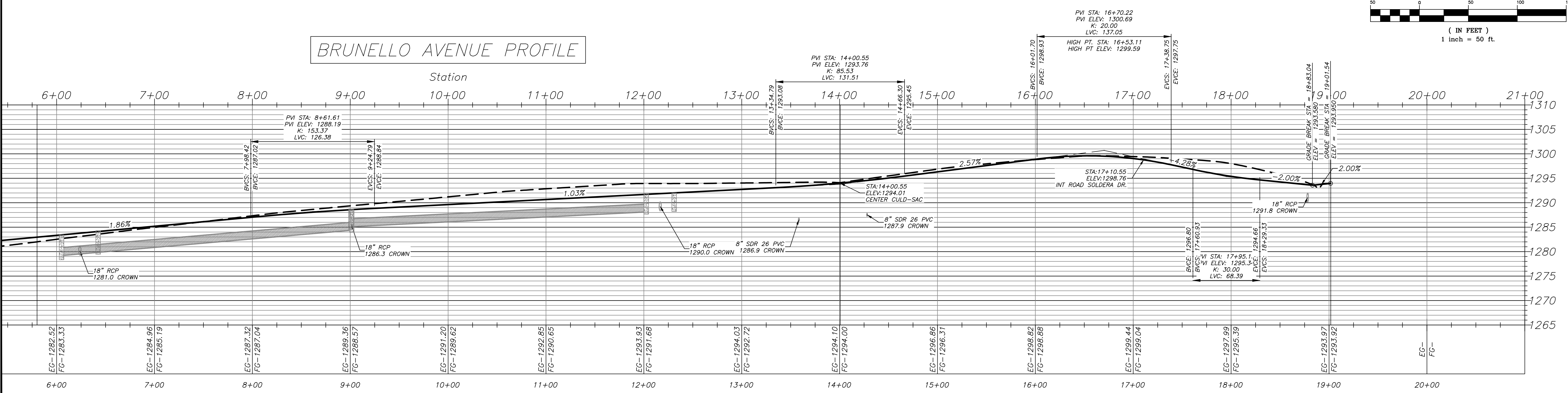
6 of 31



- GENERAL NOTES
- 1.) TONTIOWN SPECIFICATIONS REFERS TO CHAPTER 90 OF THE DESIGN STANDARDS FOR THE CITY OF TONTIOWN, ARKANSAS.
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- LEGEND
- STOP SIGN
 - STREET NAME SIGN
 - TRAFFIC SIGN
 - STREET LIGHT
 - ADA APPROVED HANDICAP RAMP

BRUNELLO AVENUE PROFILE



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SEAL

Professional Engineer
Richardson
No. 2519
Arkansas

BRUNELLO AVE. PLAN & PROFILE
13+00 – 19+01.77 (END)
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

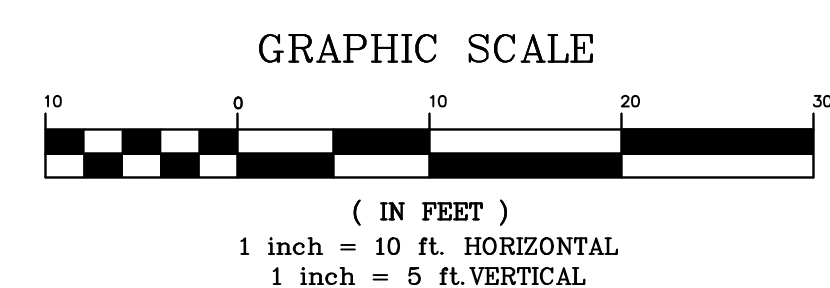
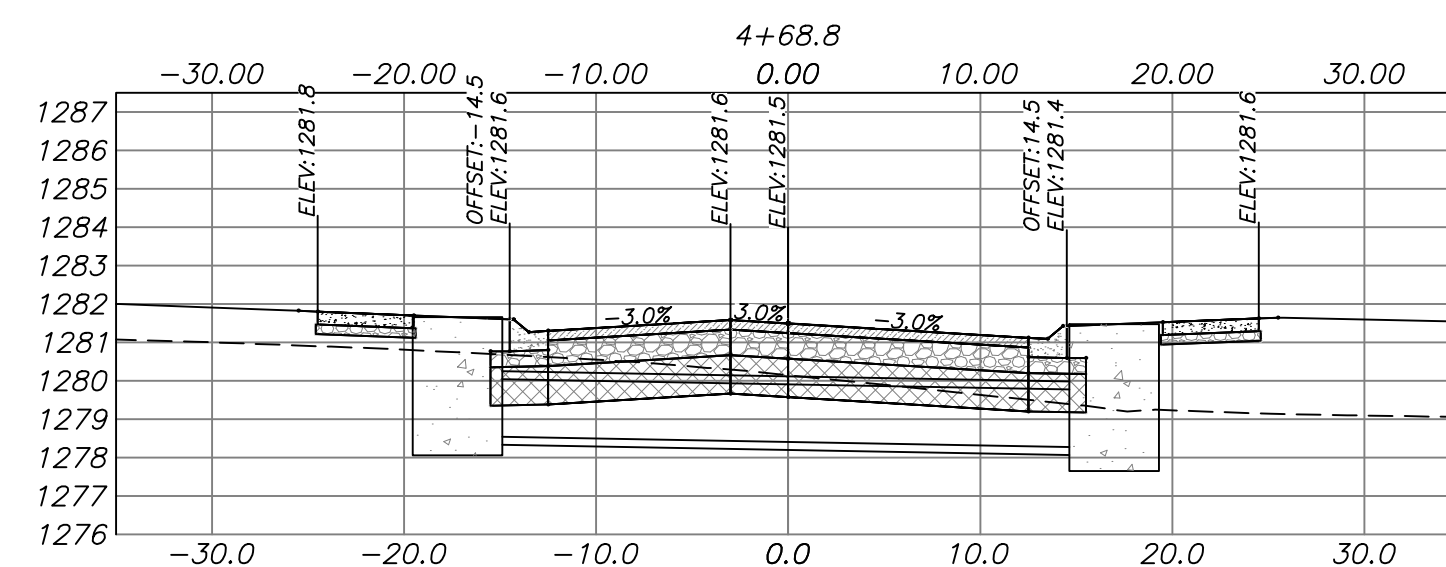
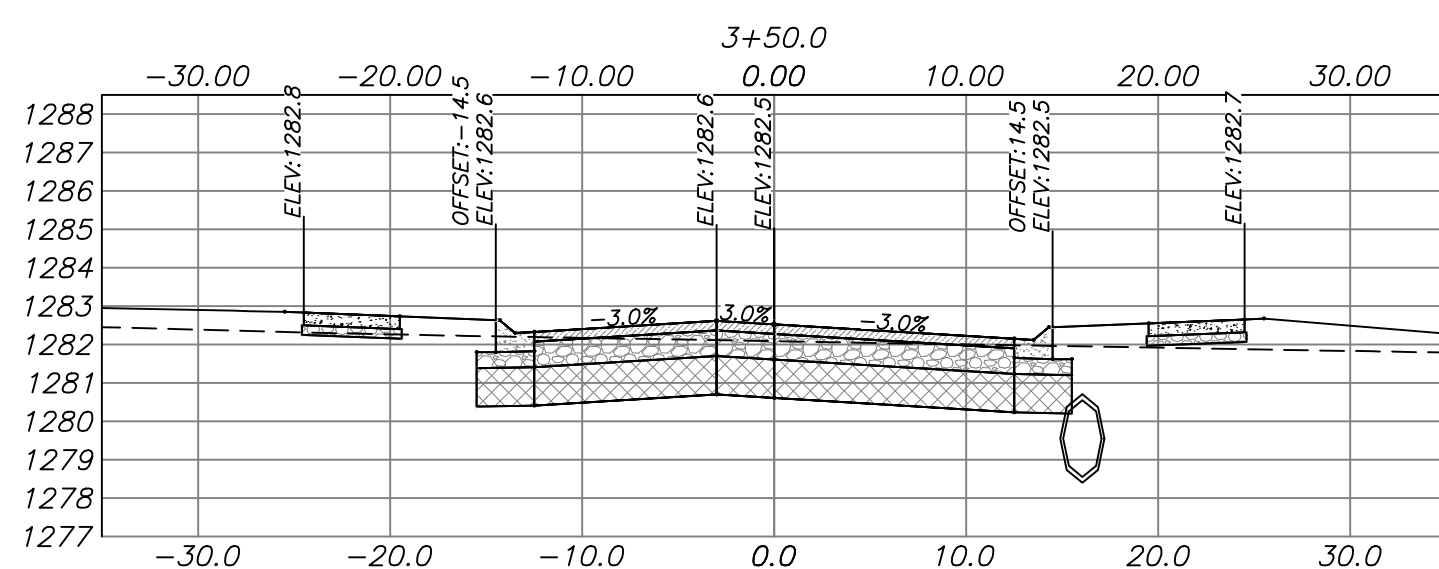
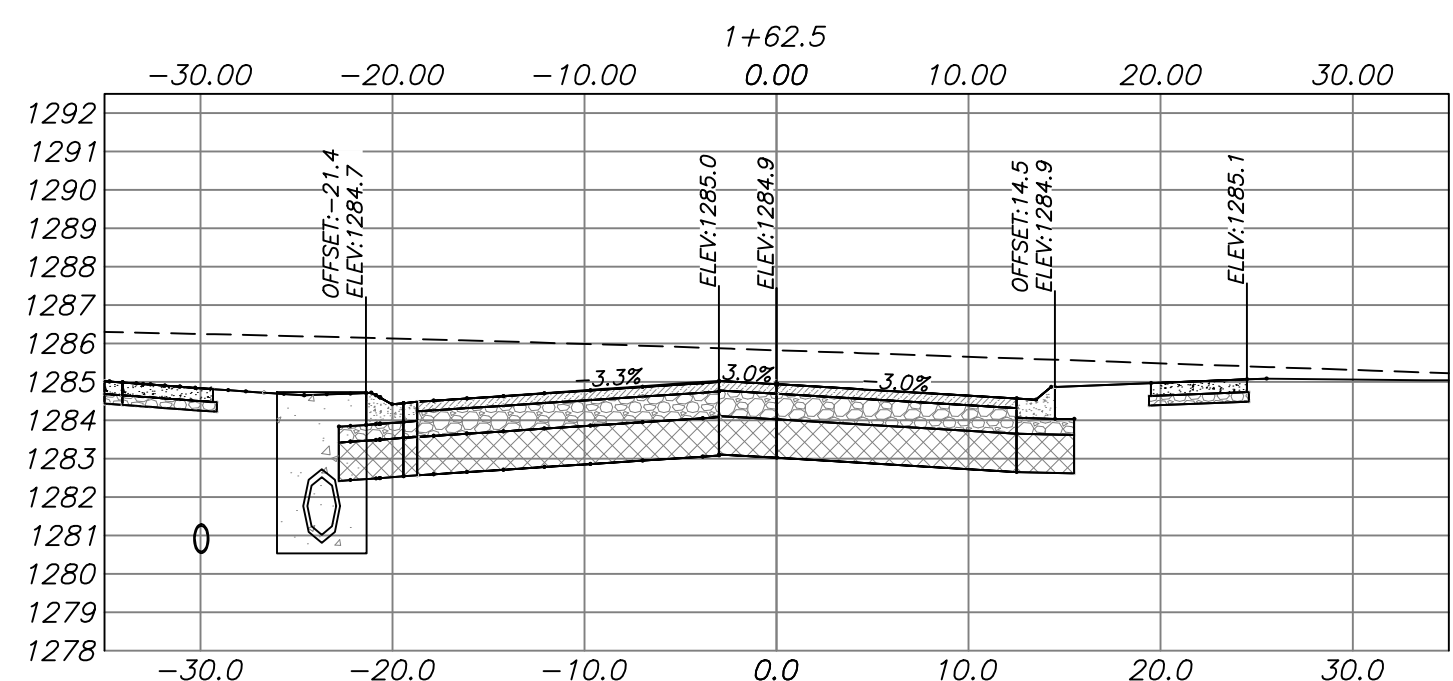
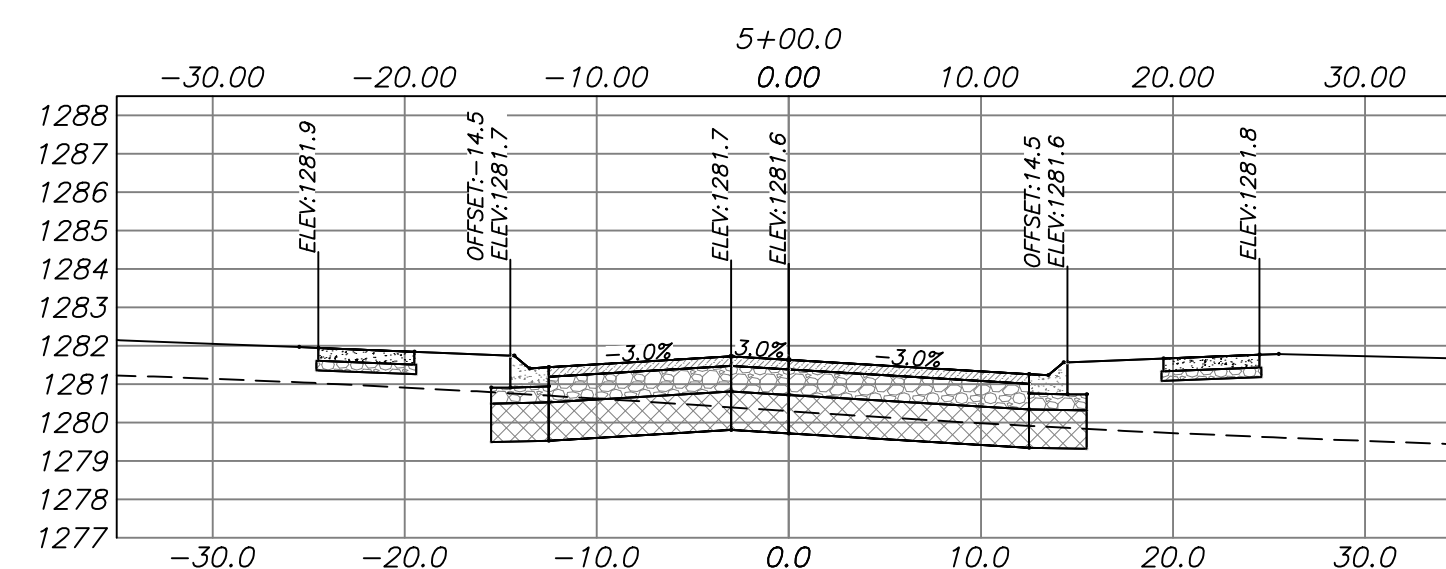
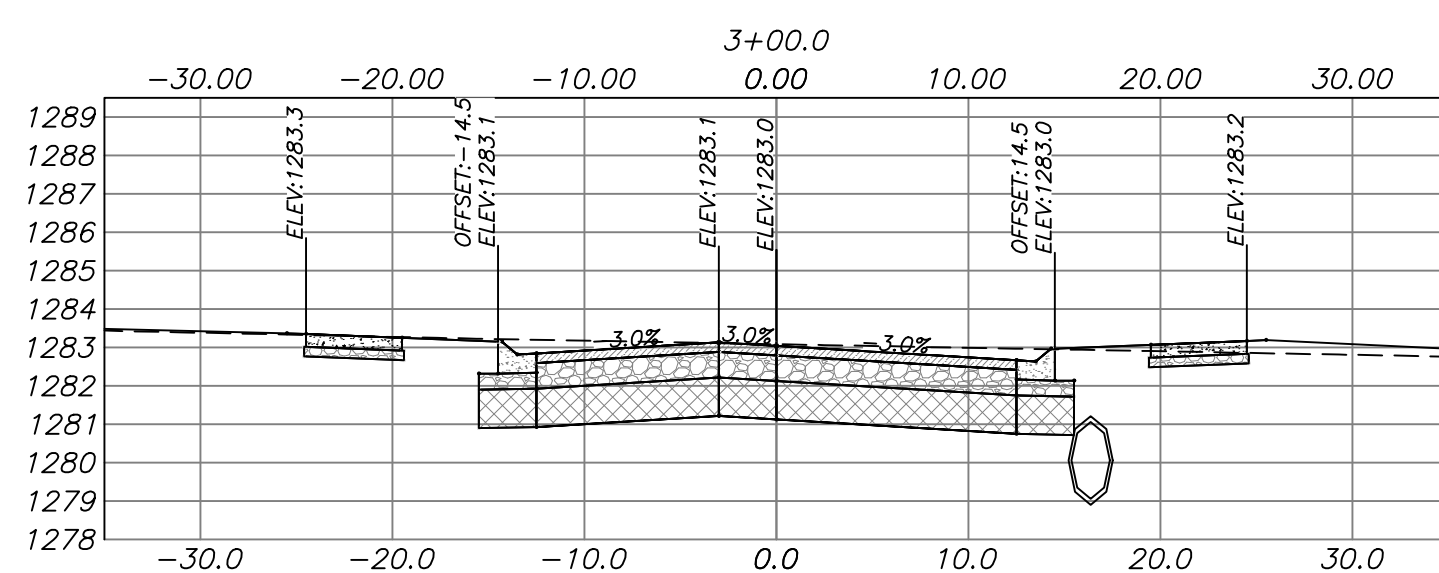
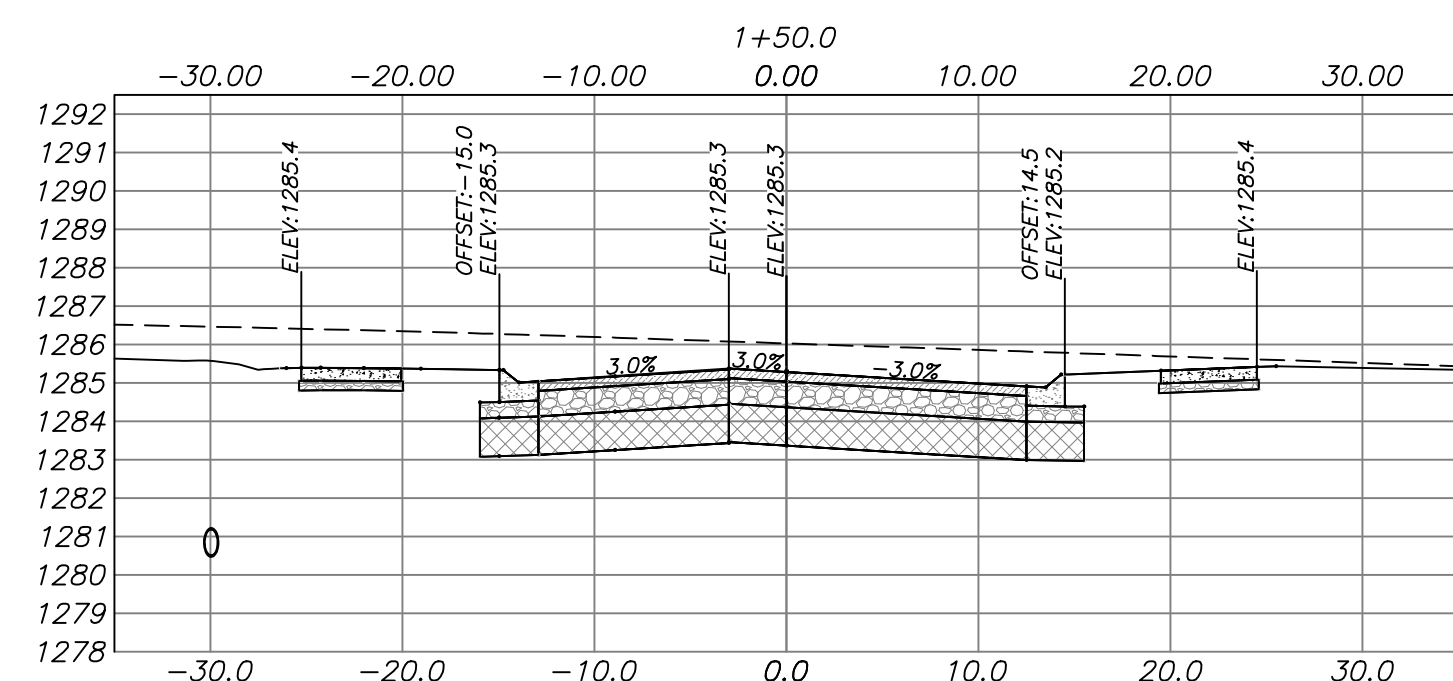
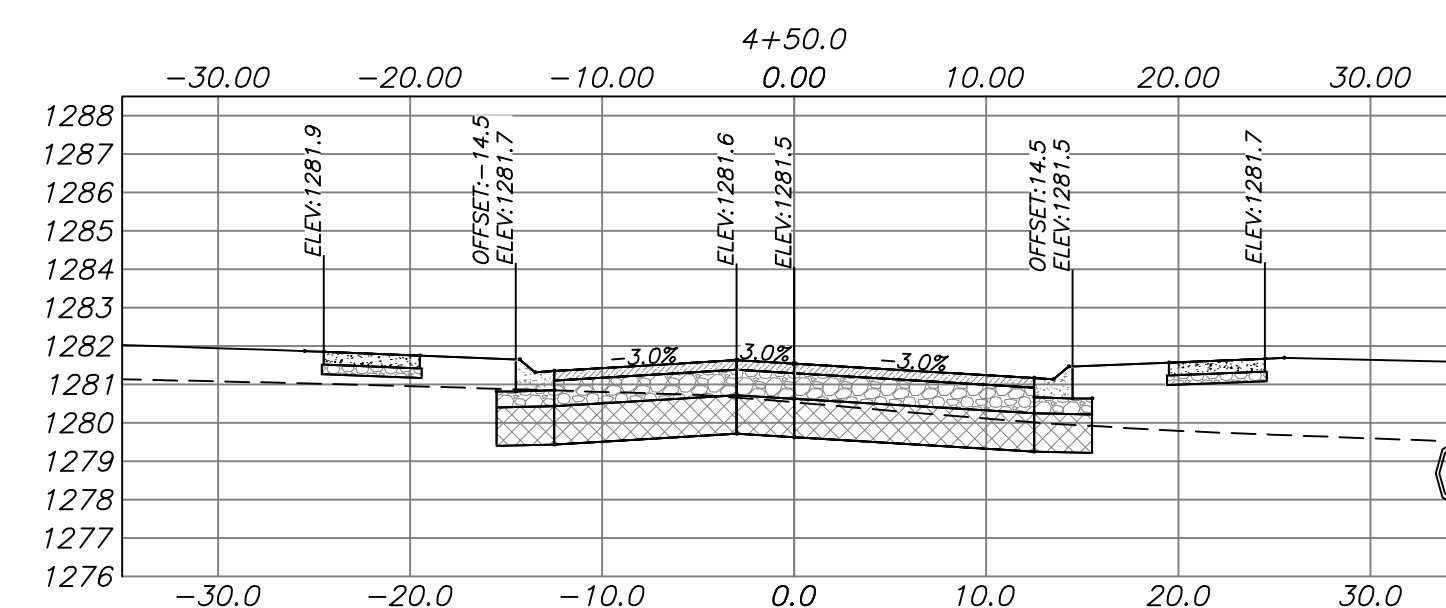
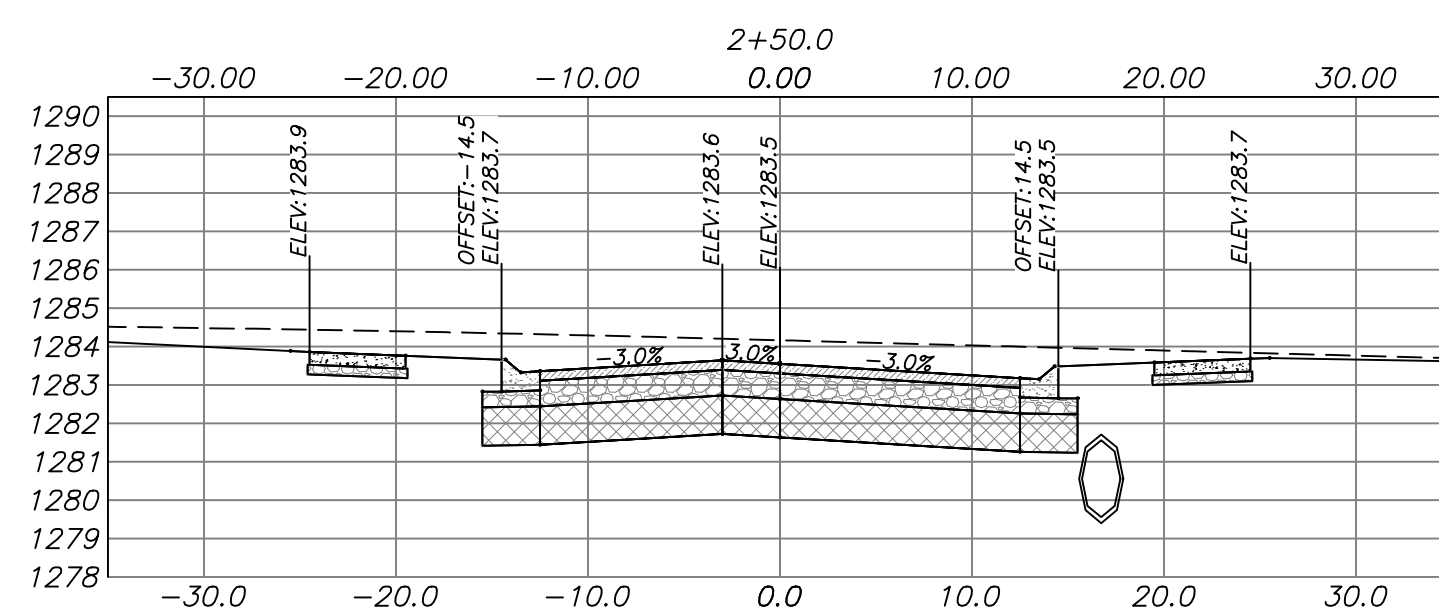
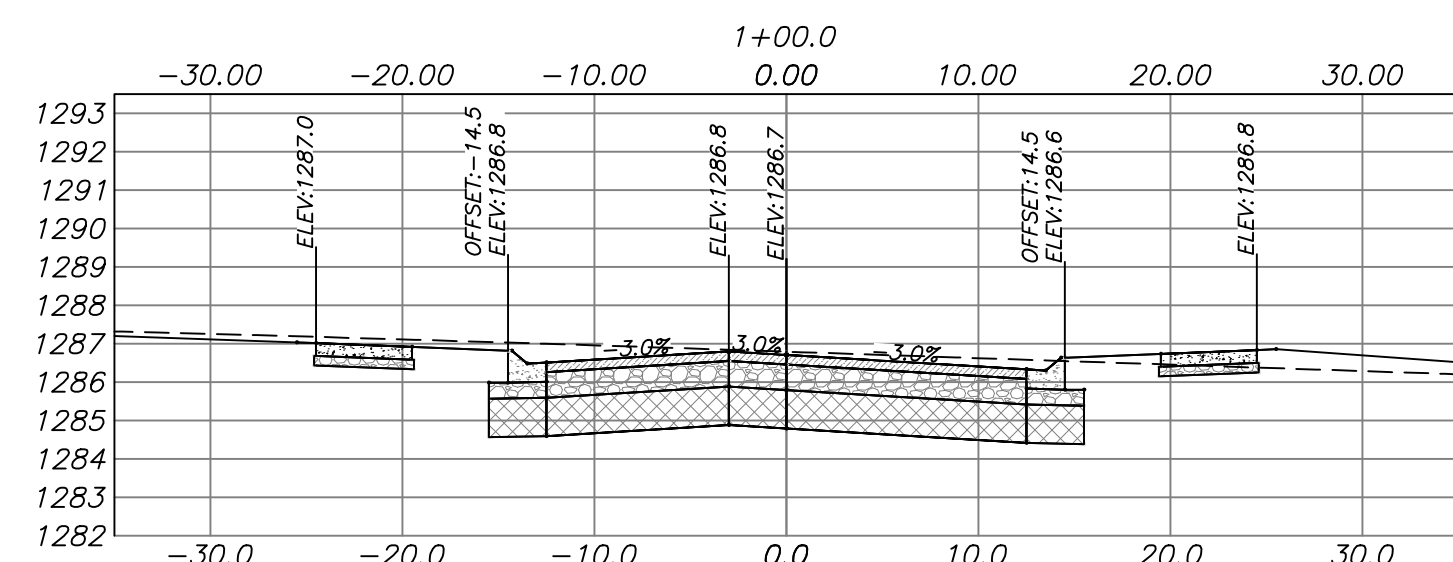
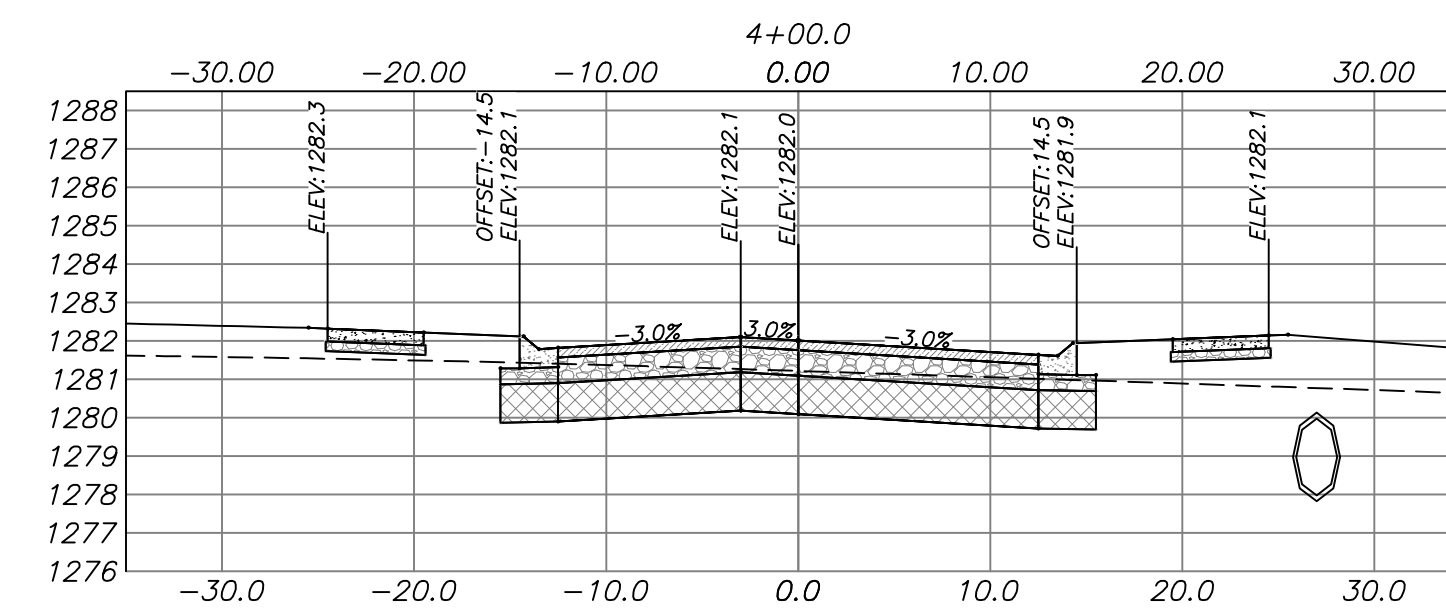
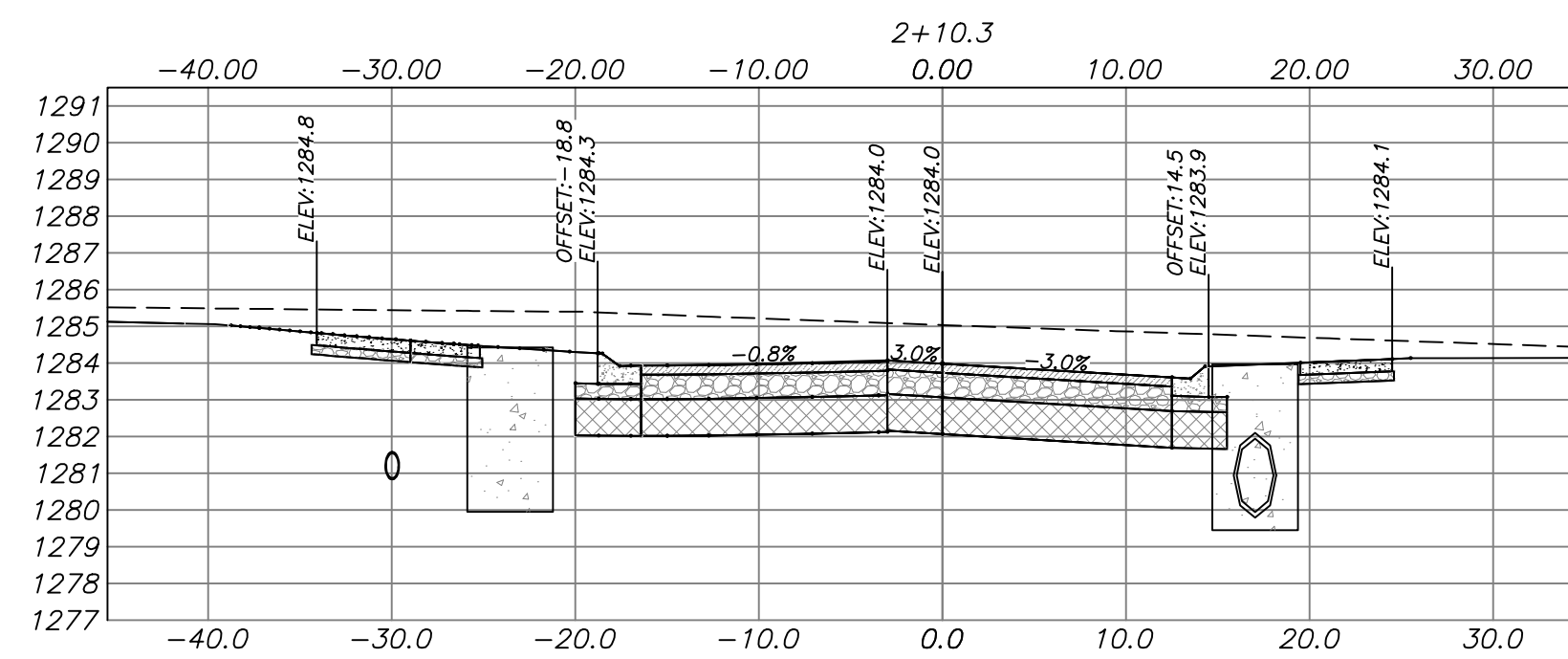
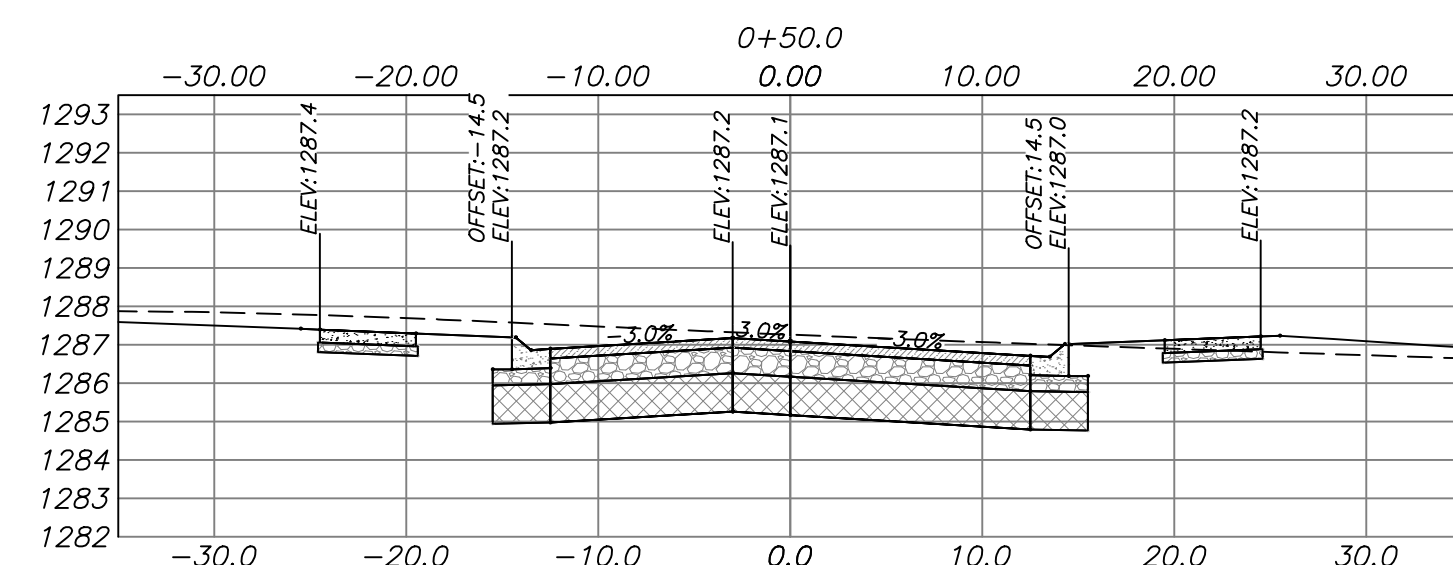
Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

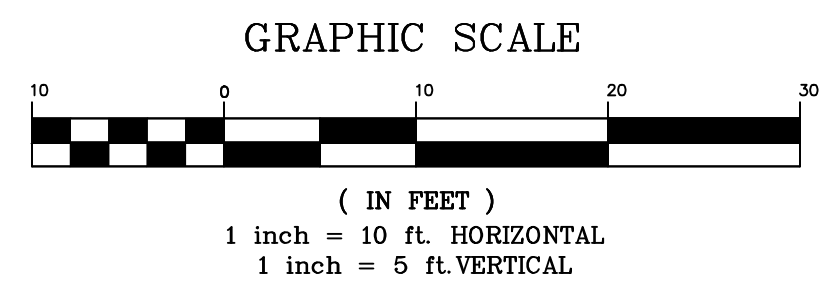
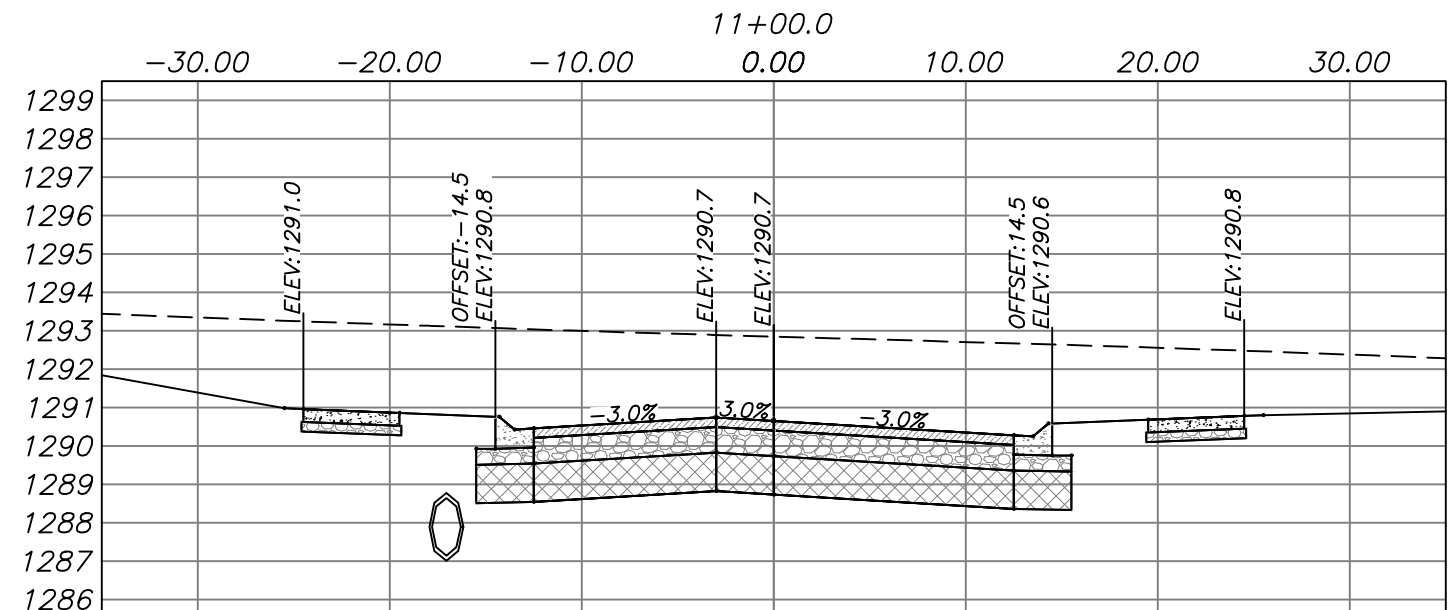
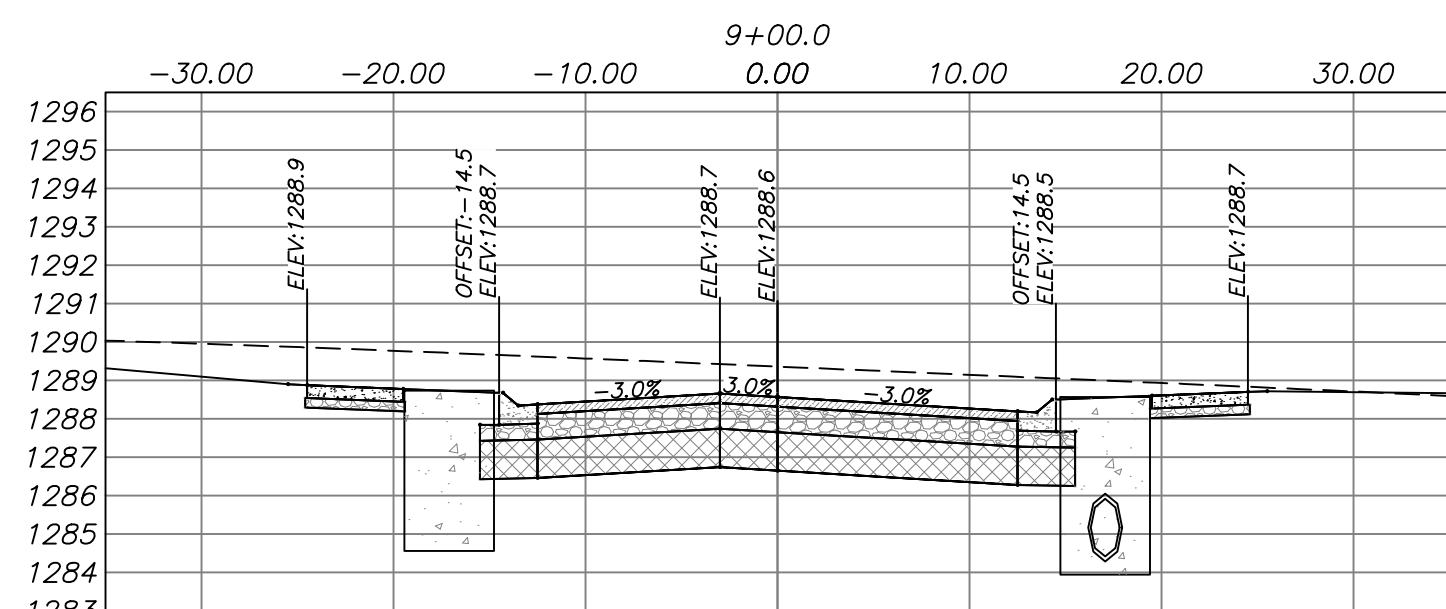
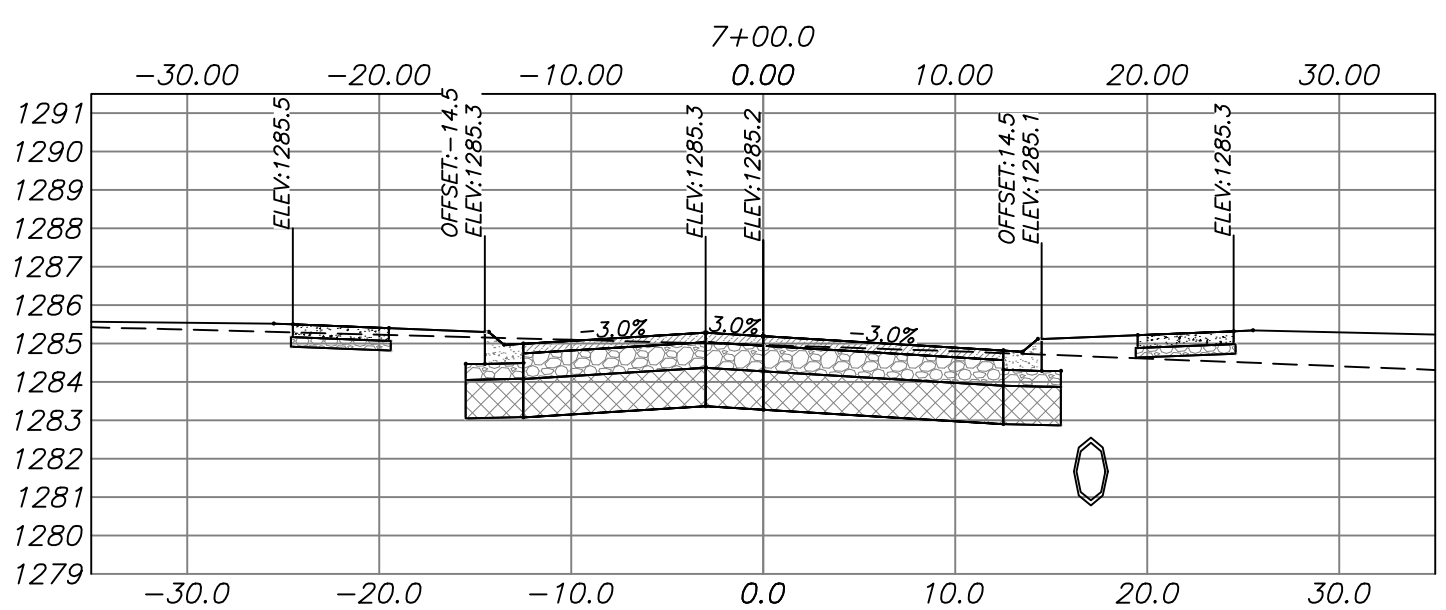
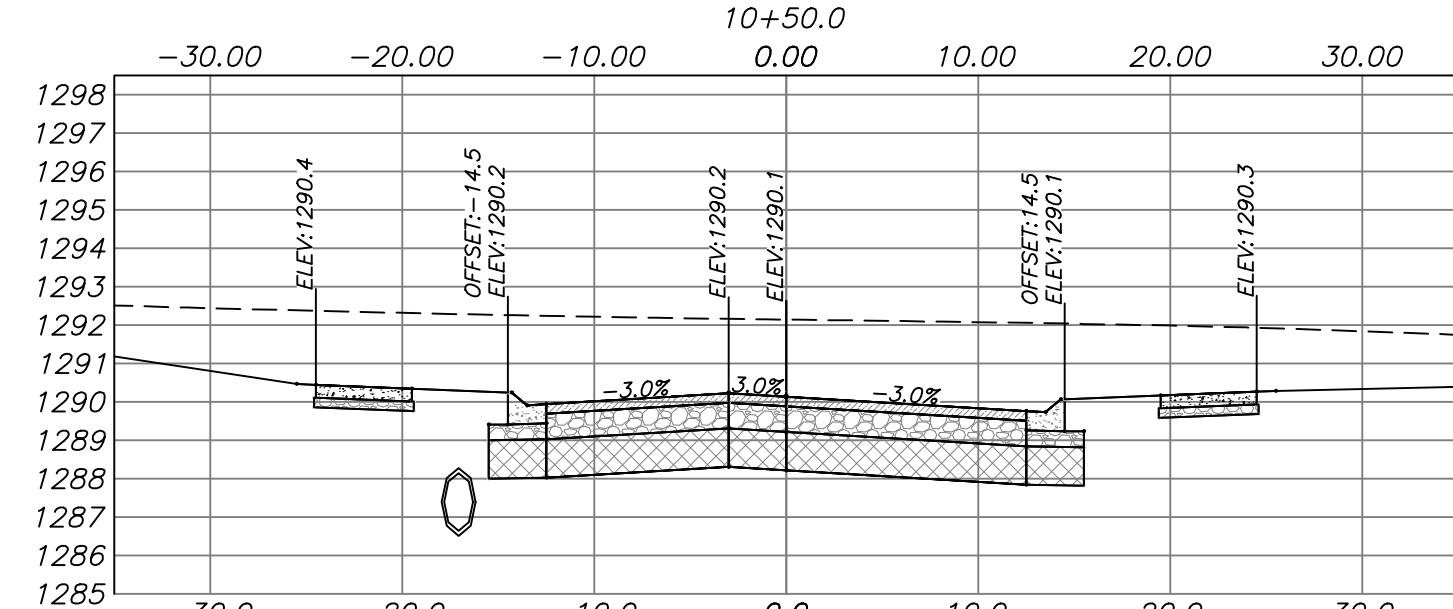
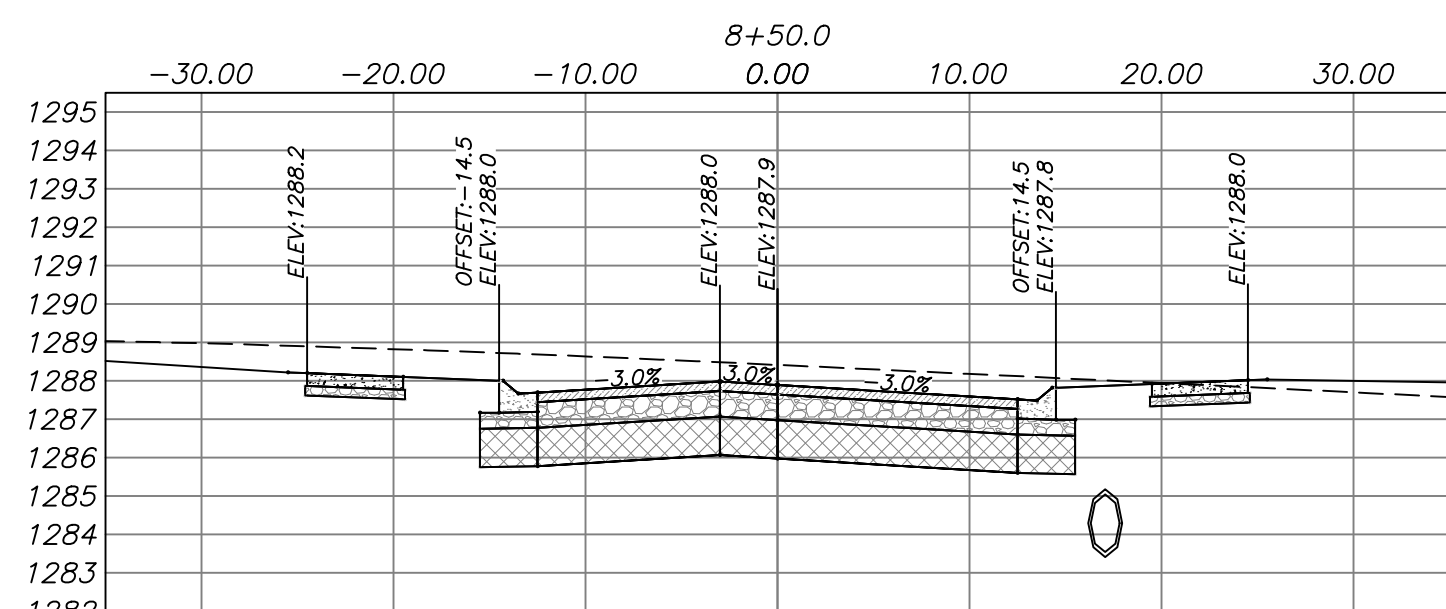
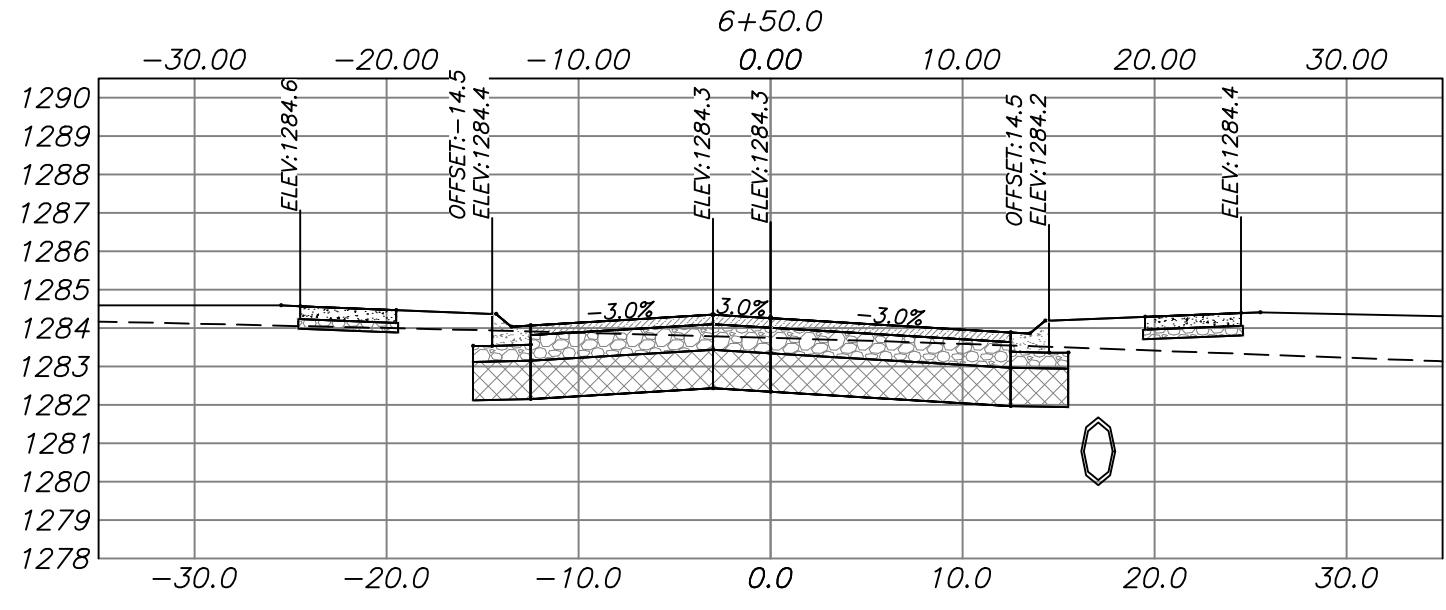
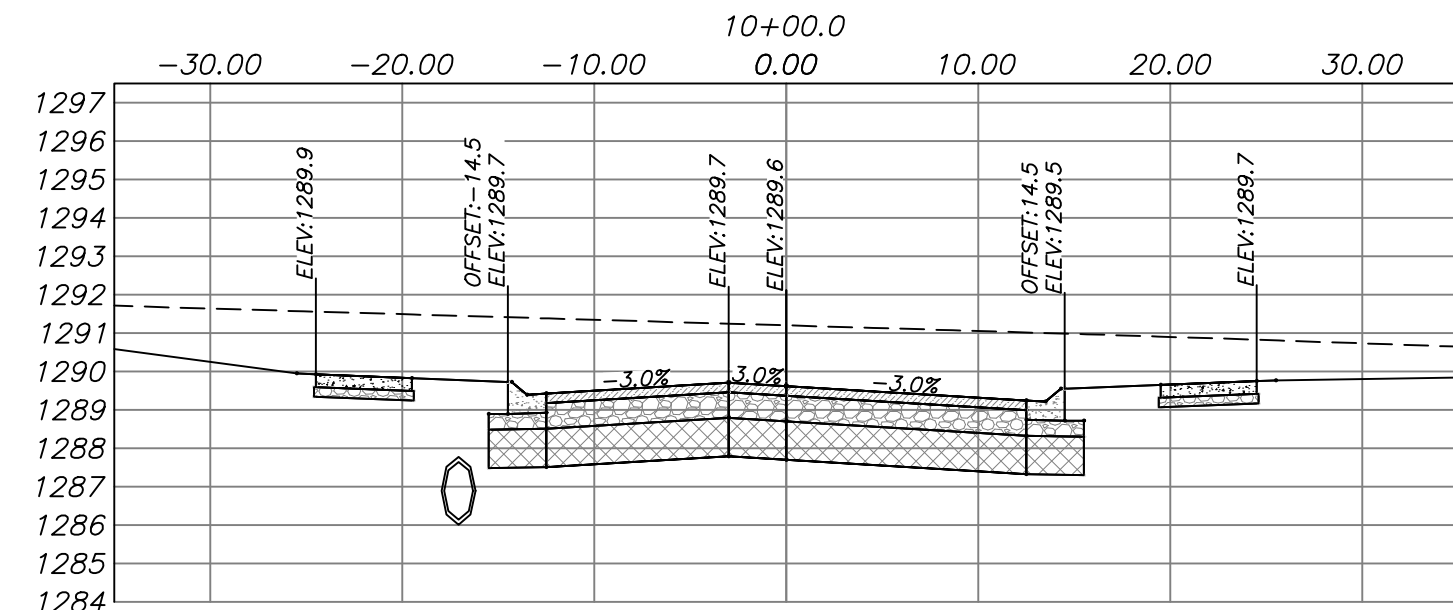
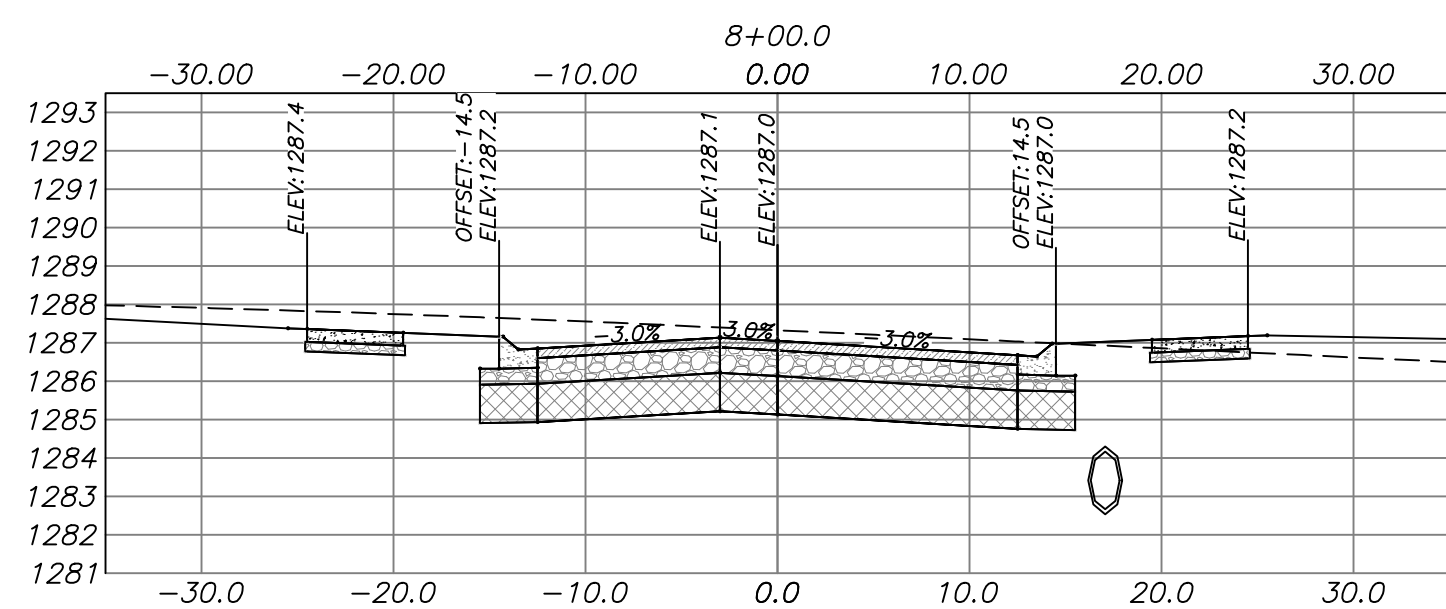
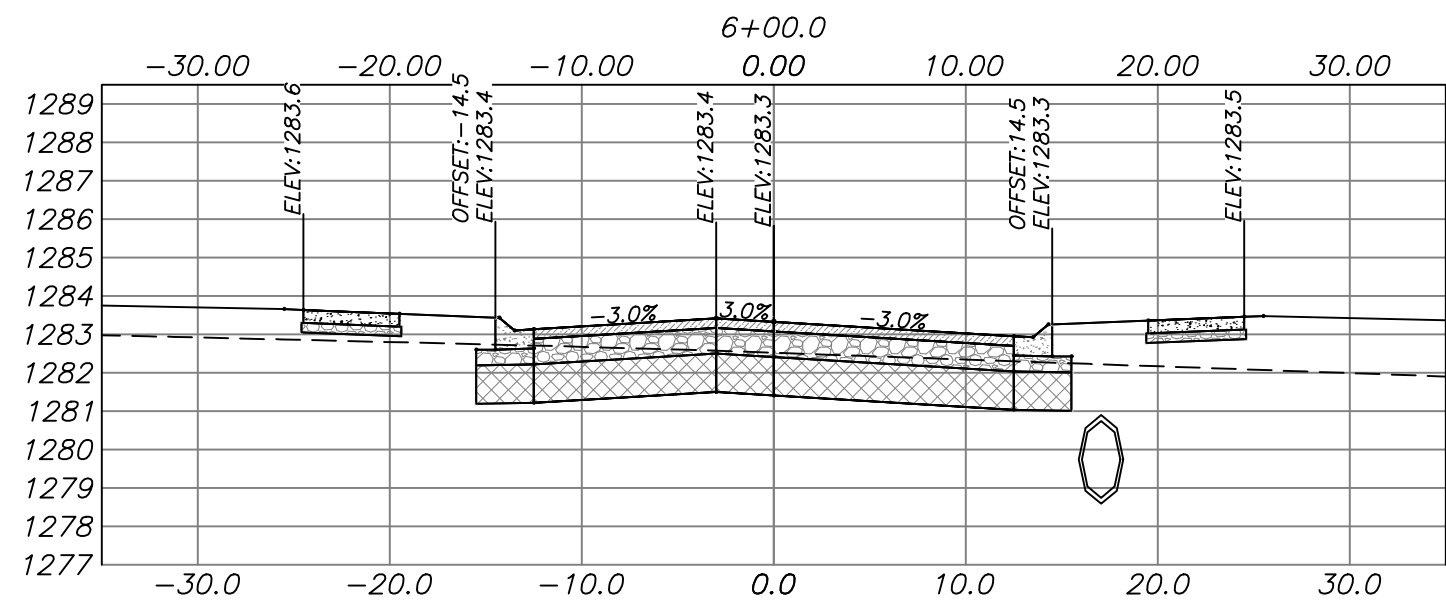
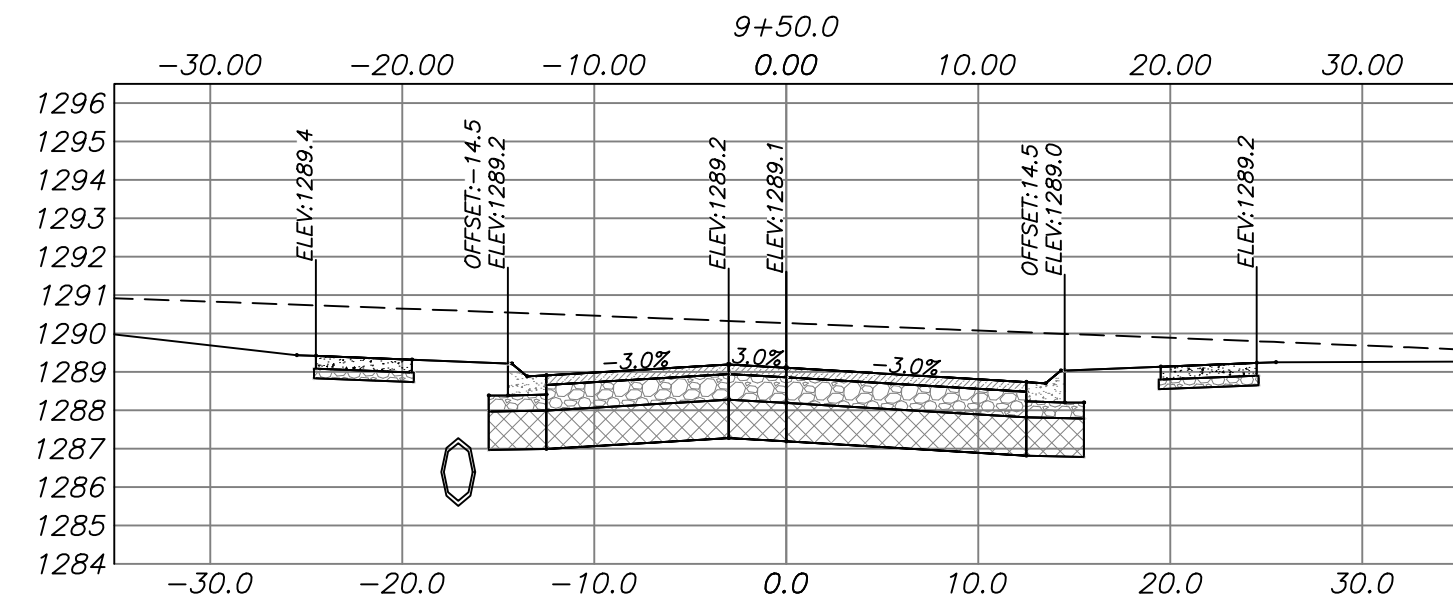
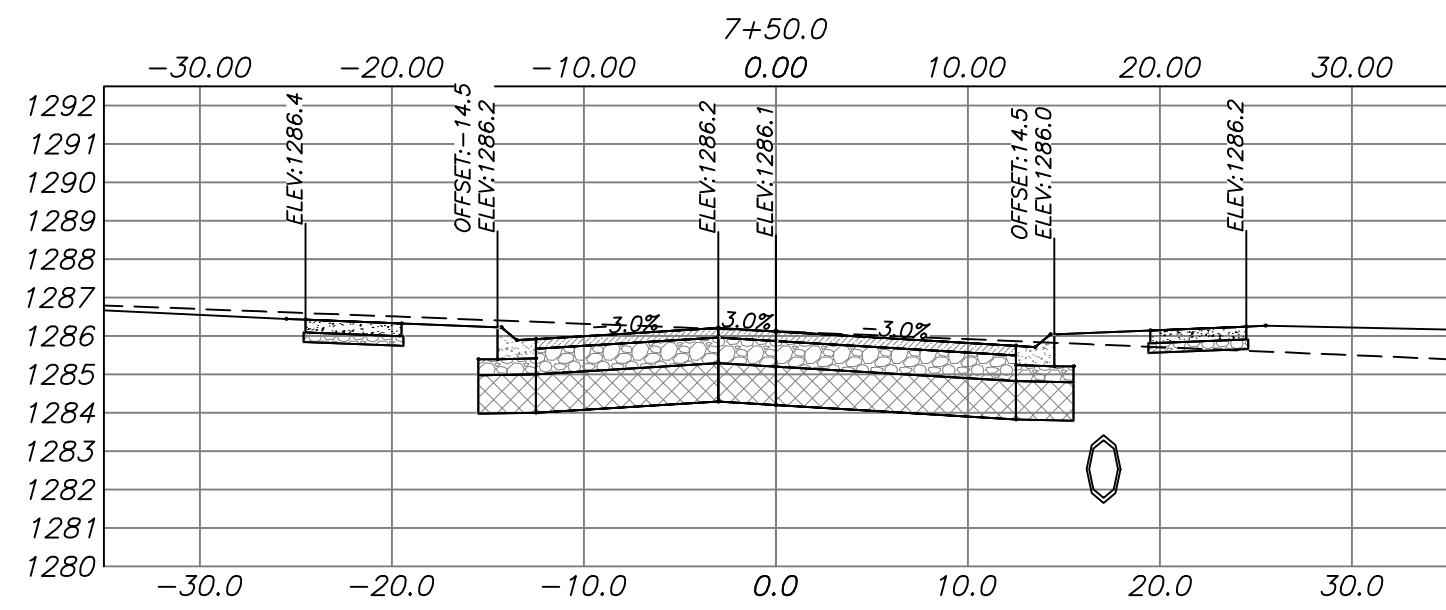
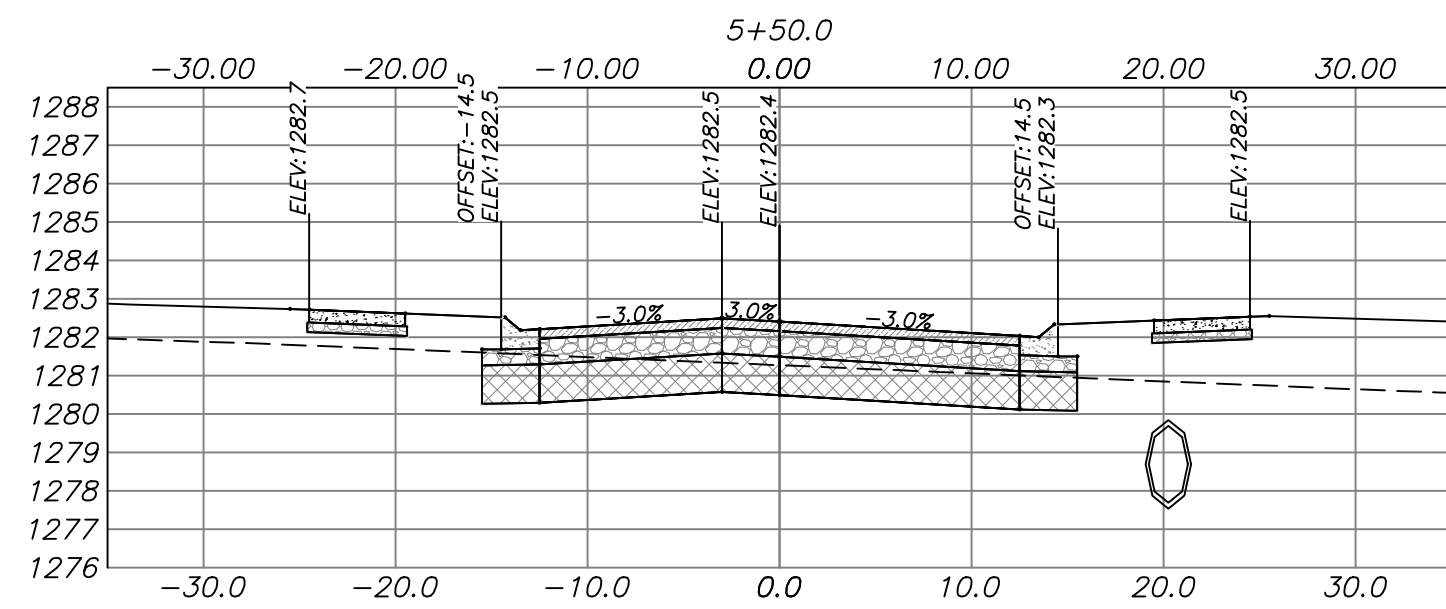
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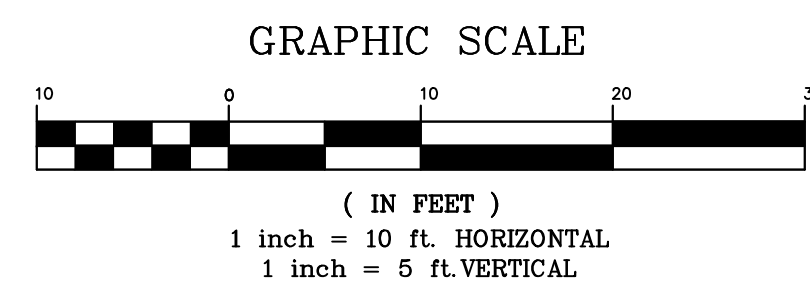
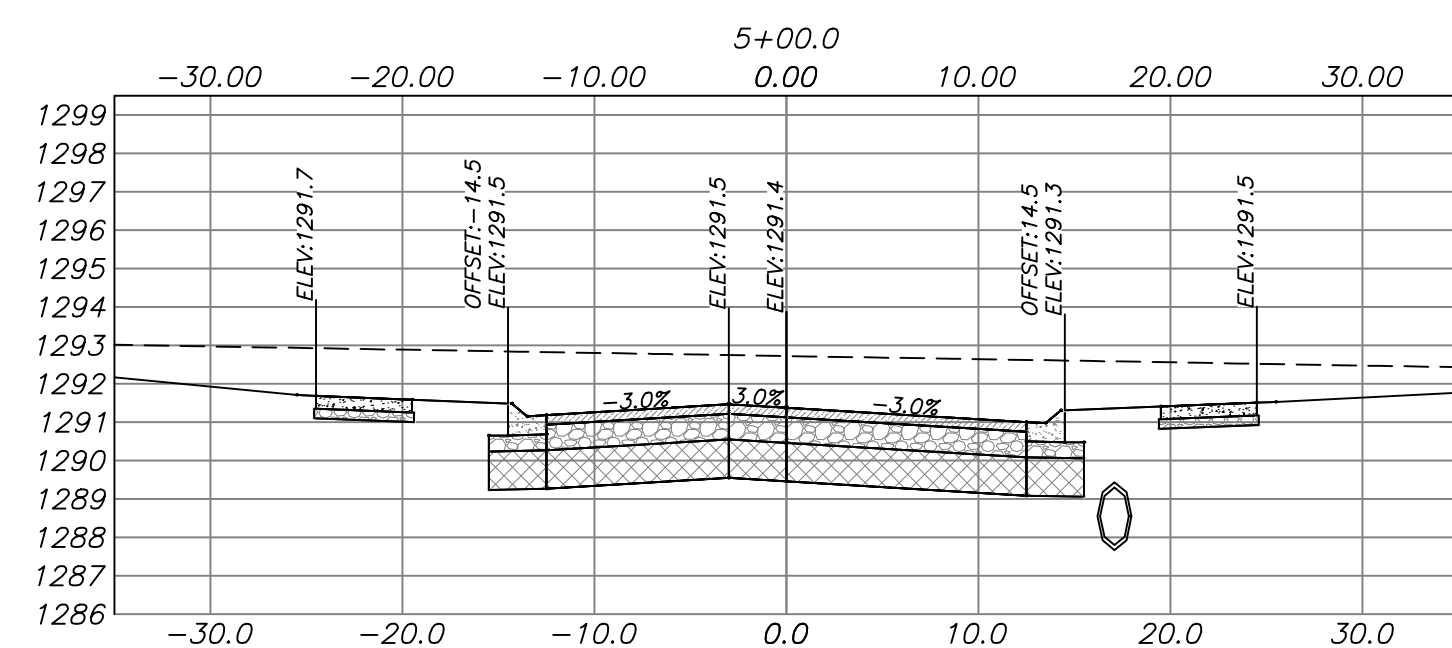
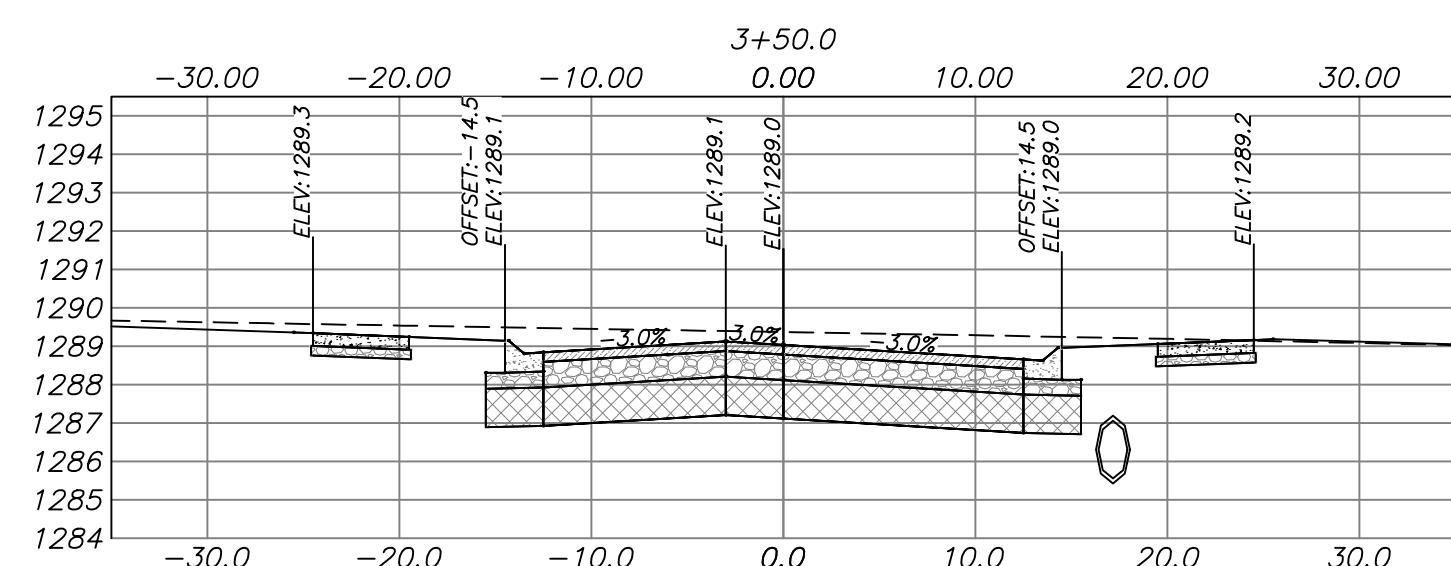
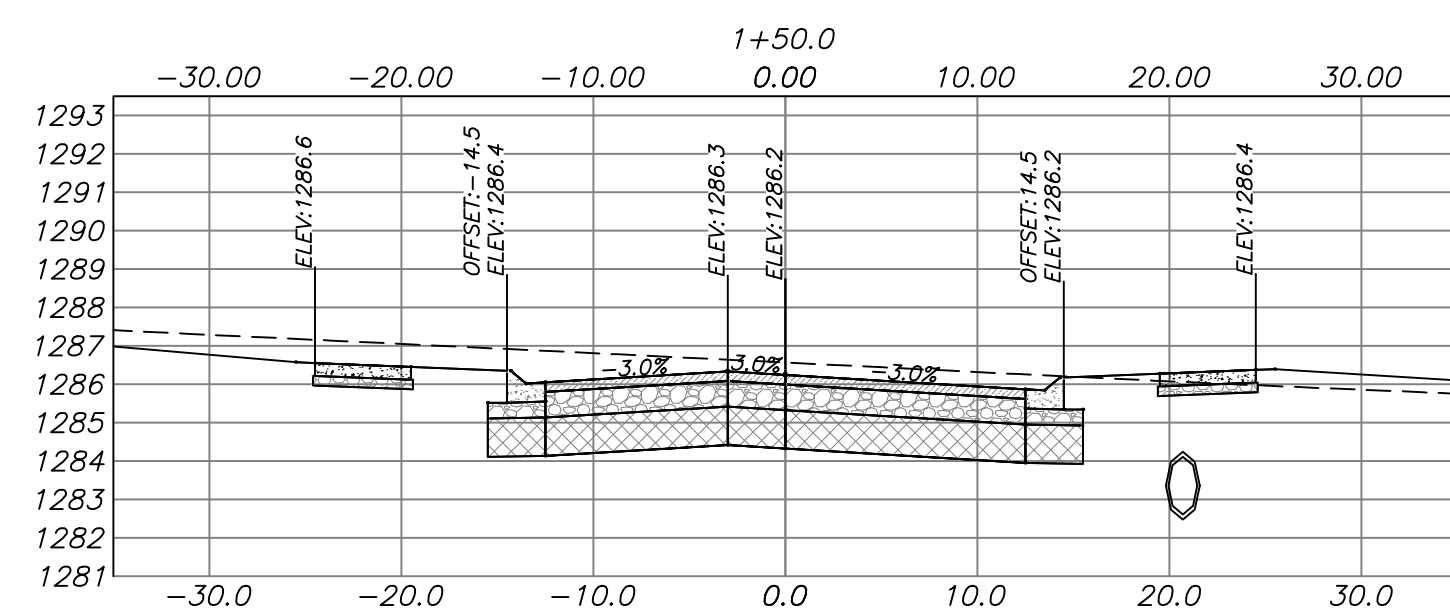
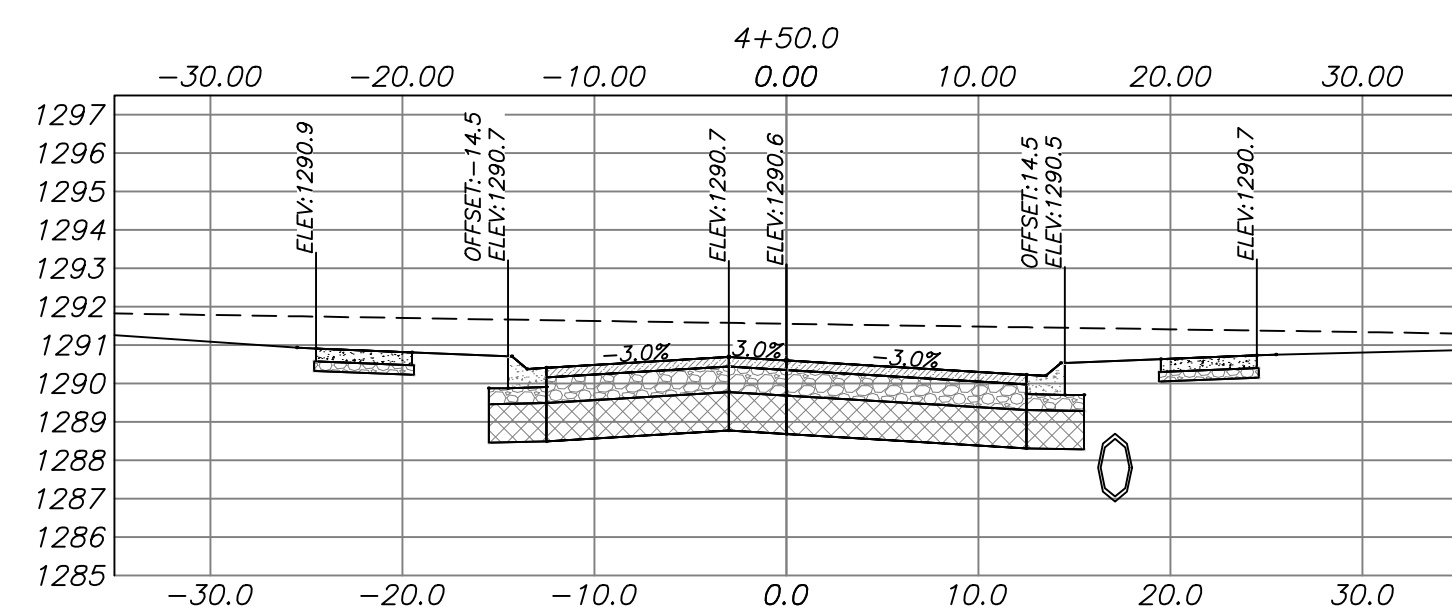
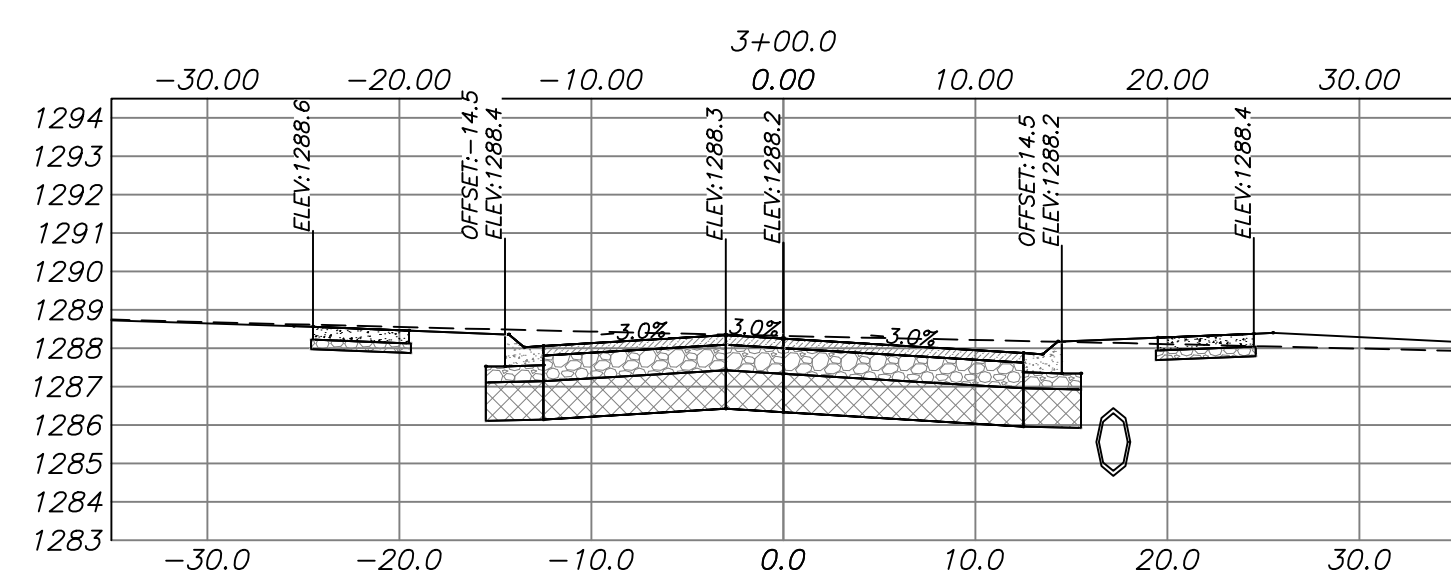
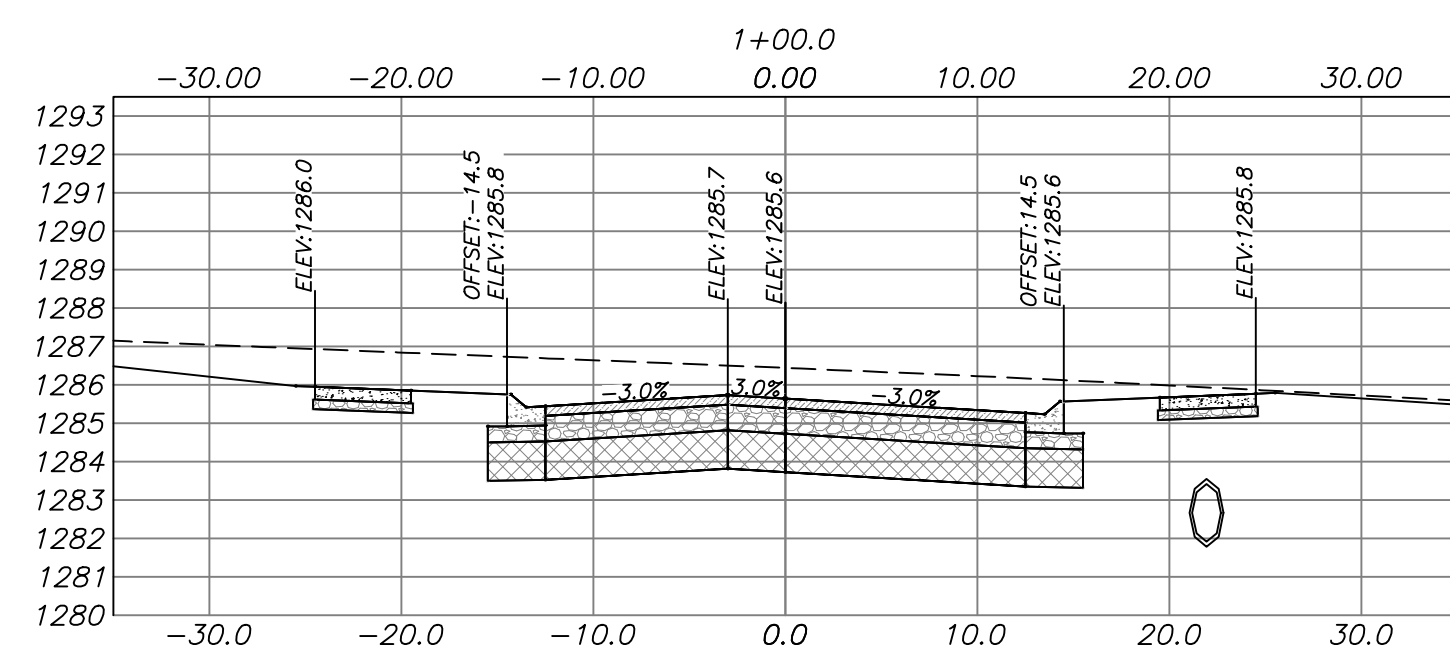
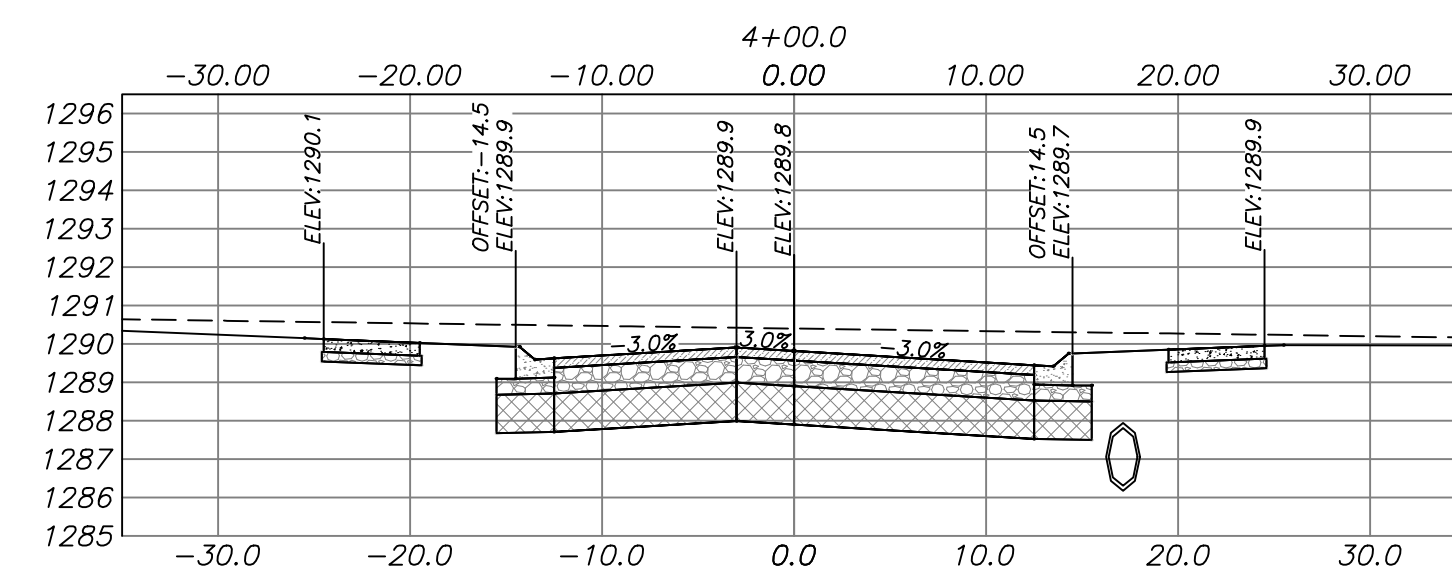
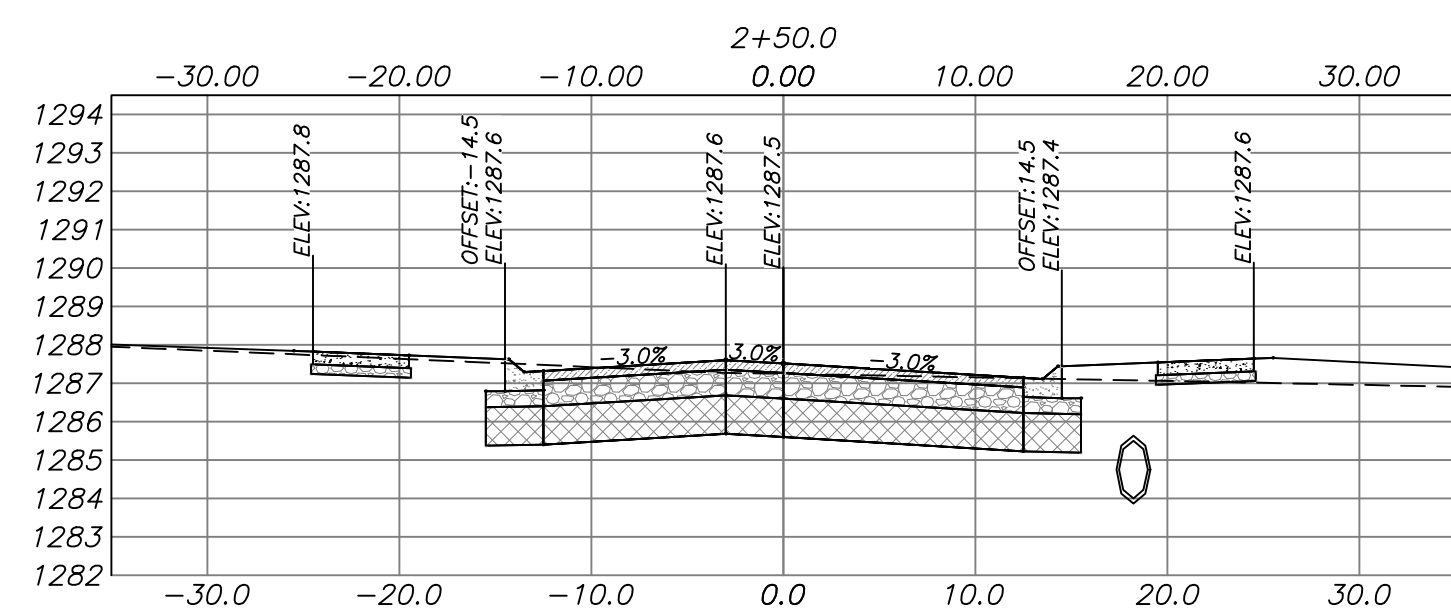
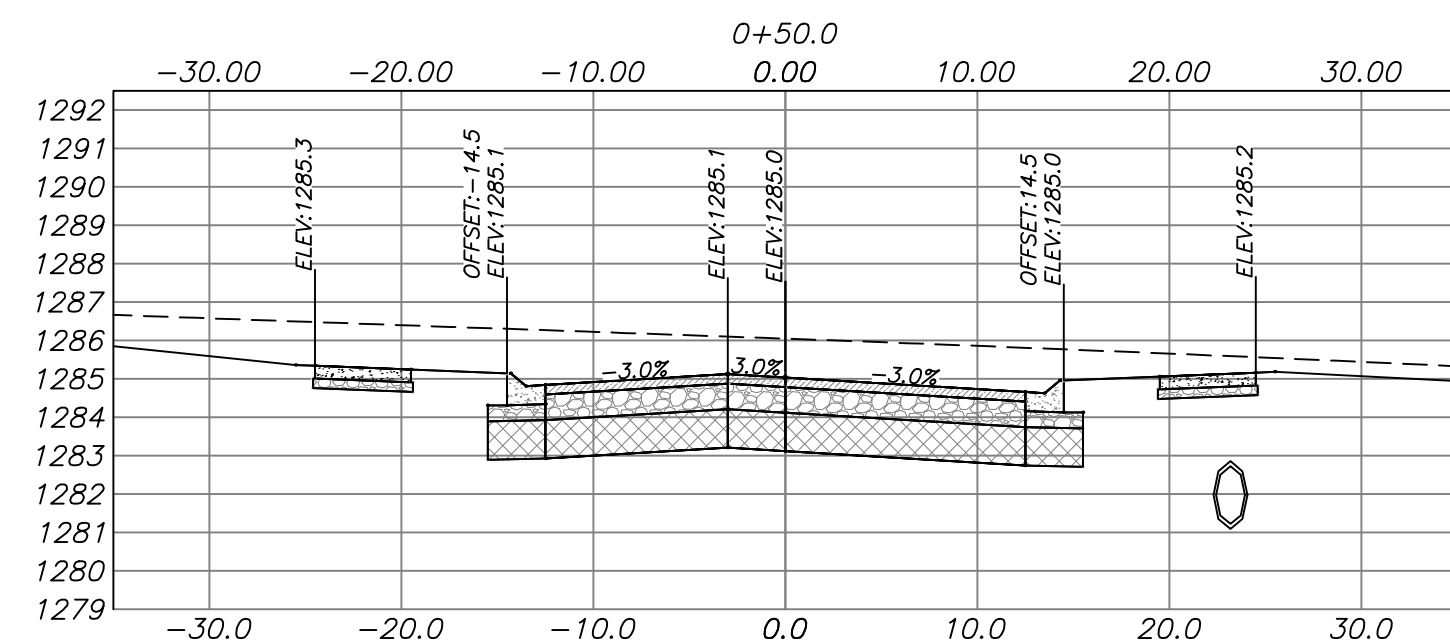
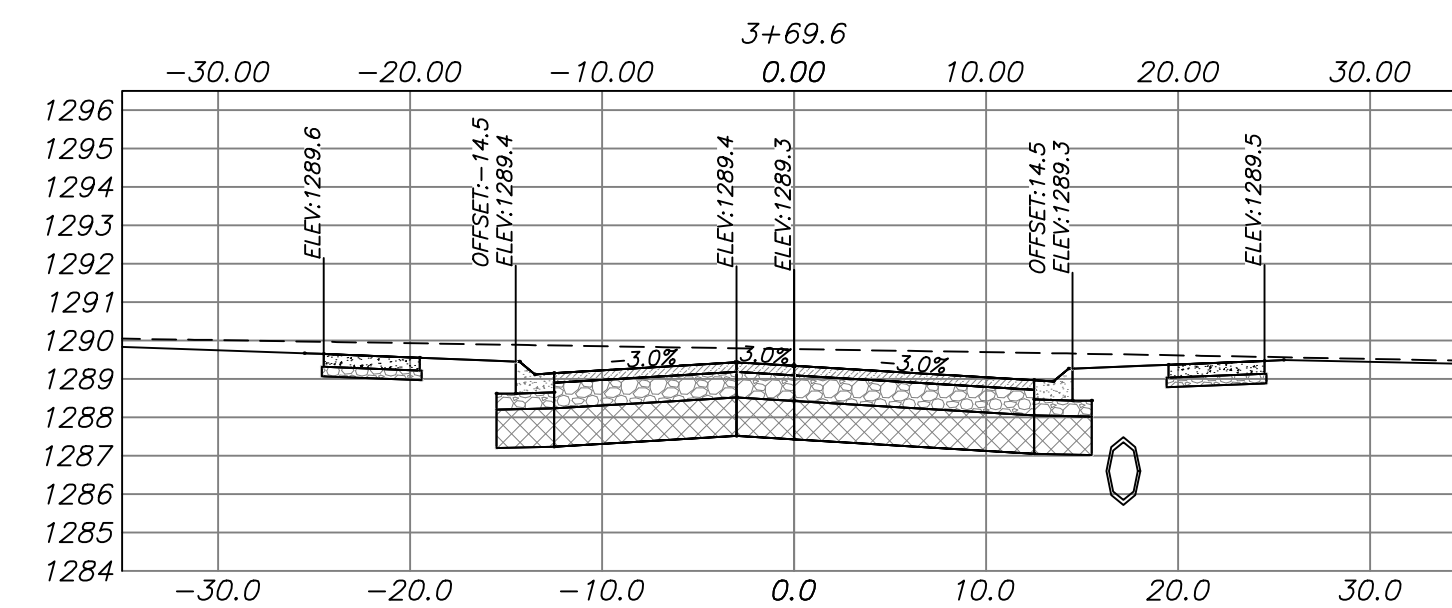
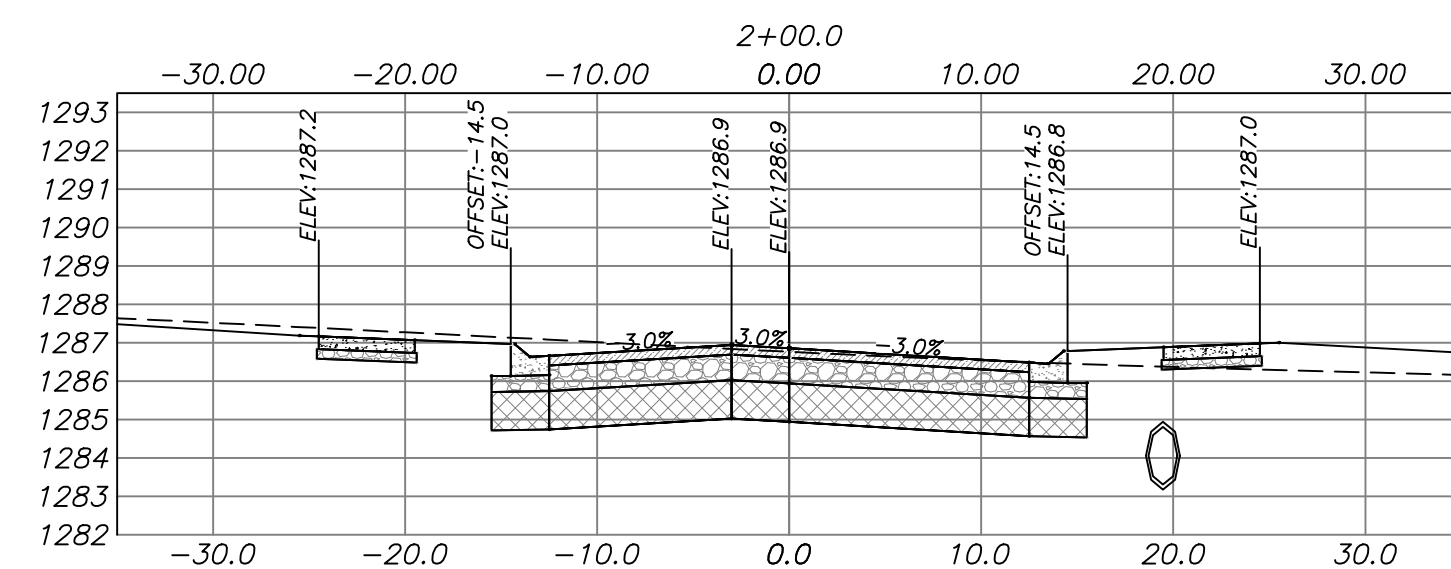
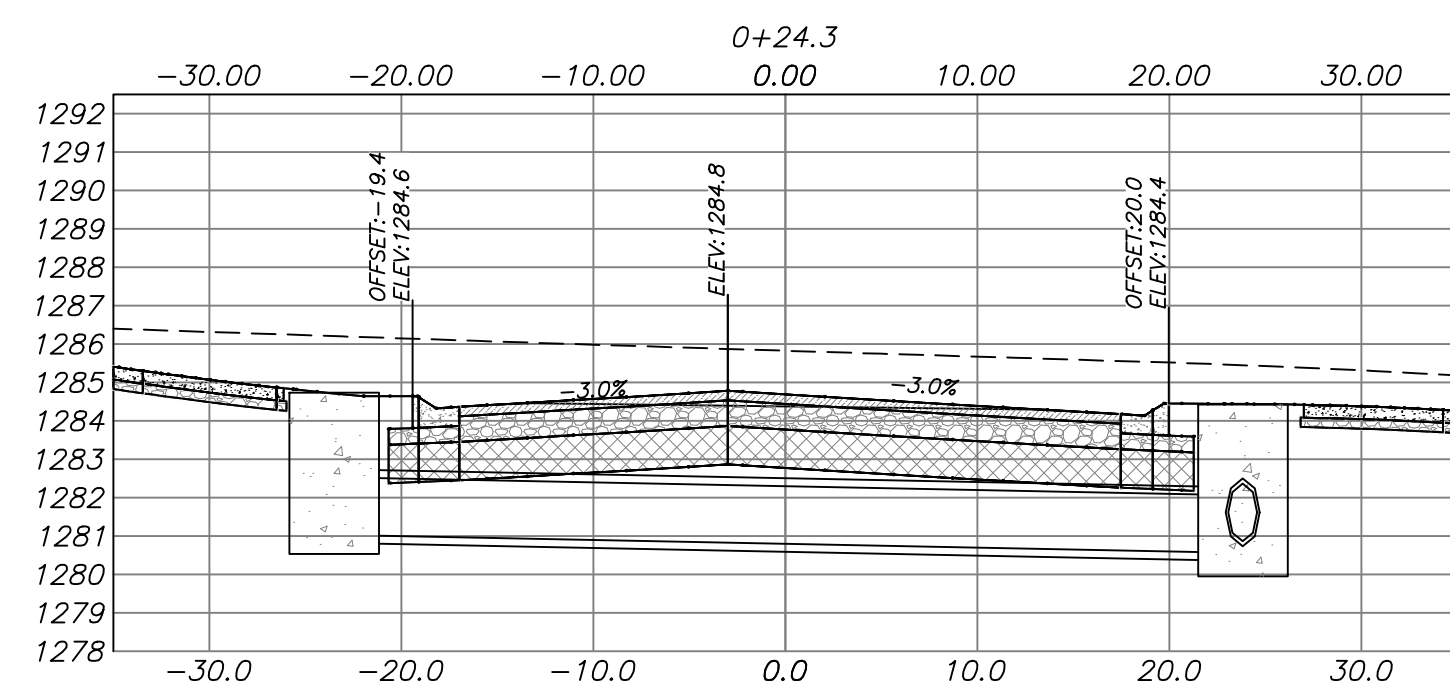
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Date:
08/30/19
REV 09/16/19

Sheet:
7 of 31



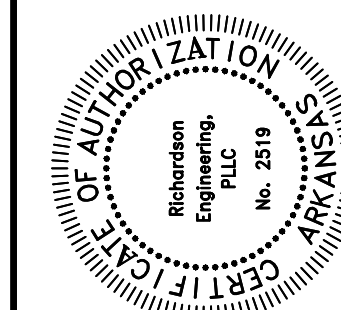




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RE

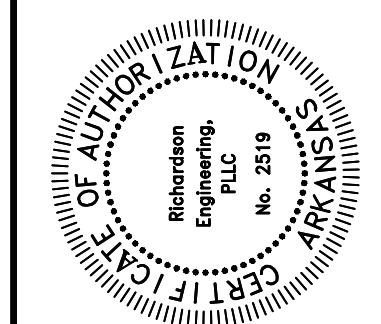
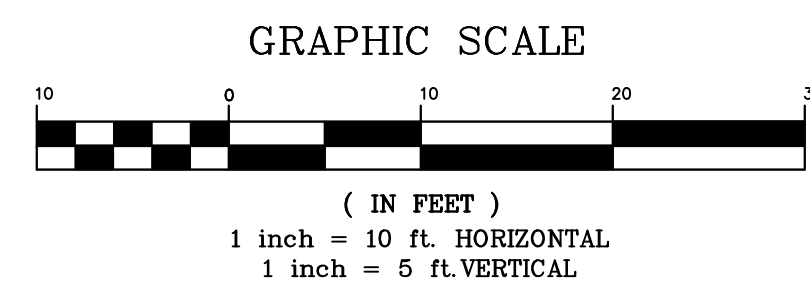
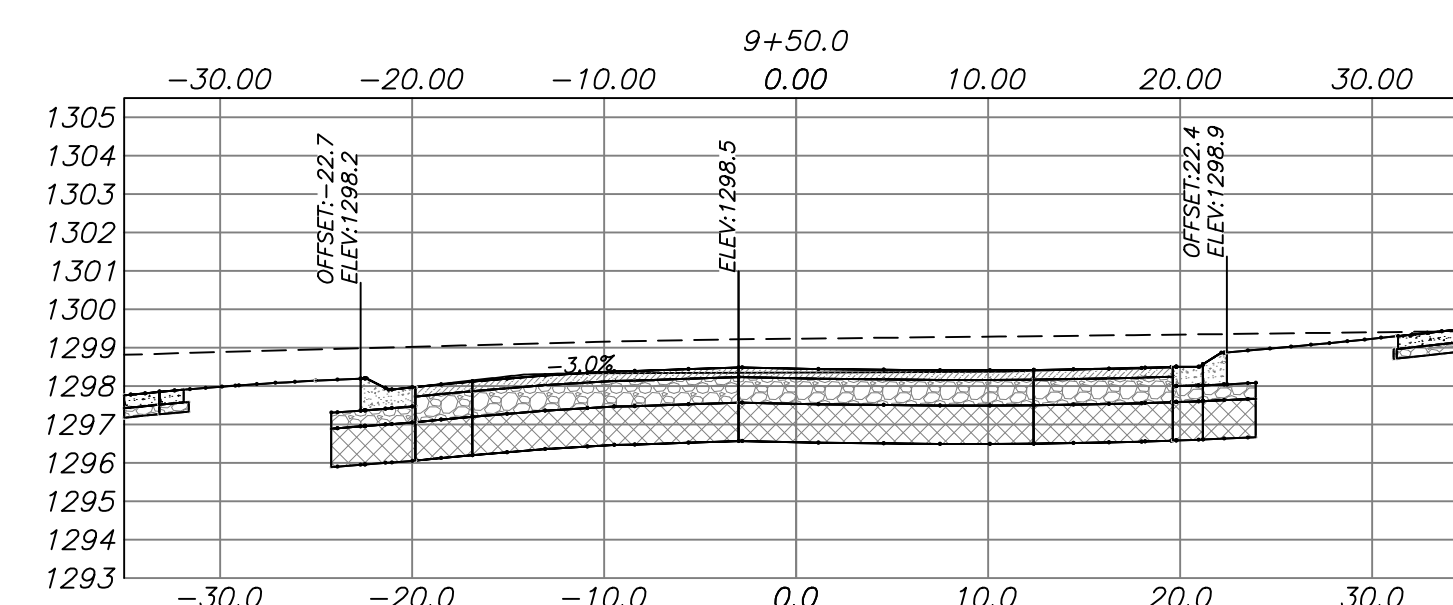
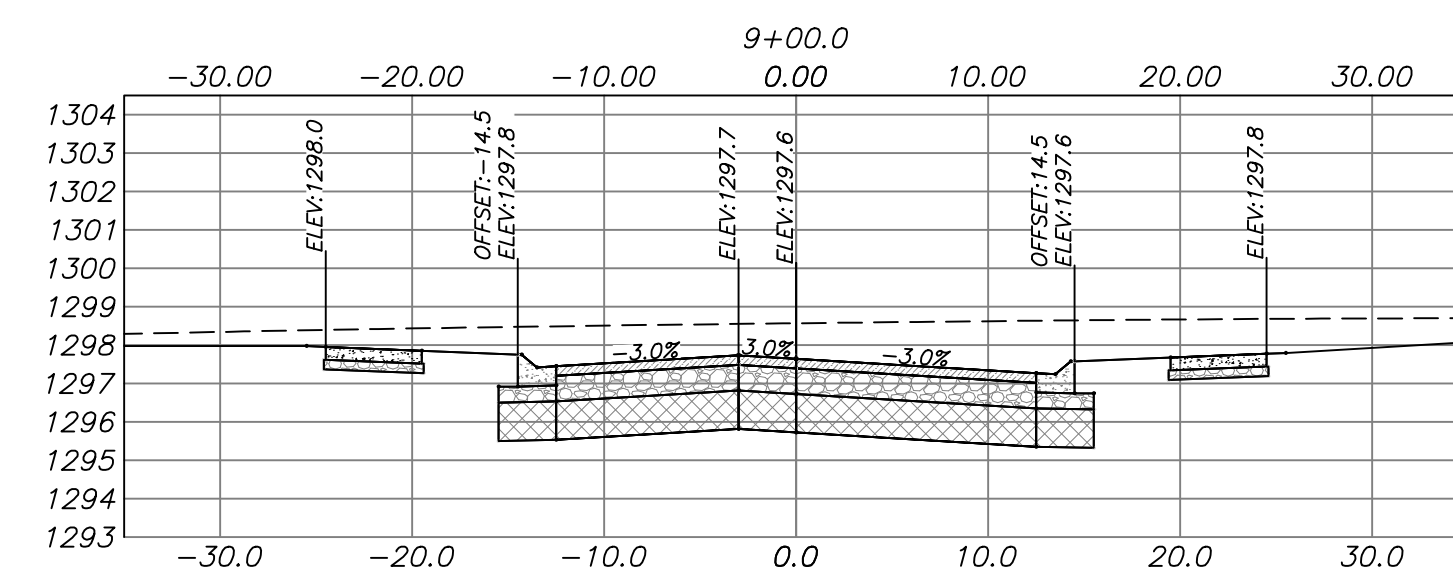
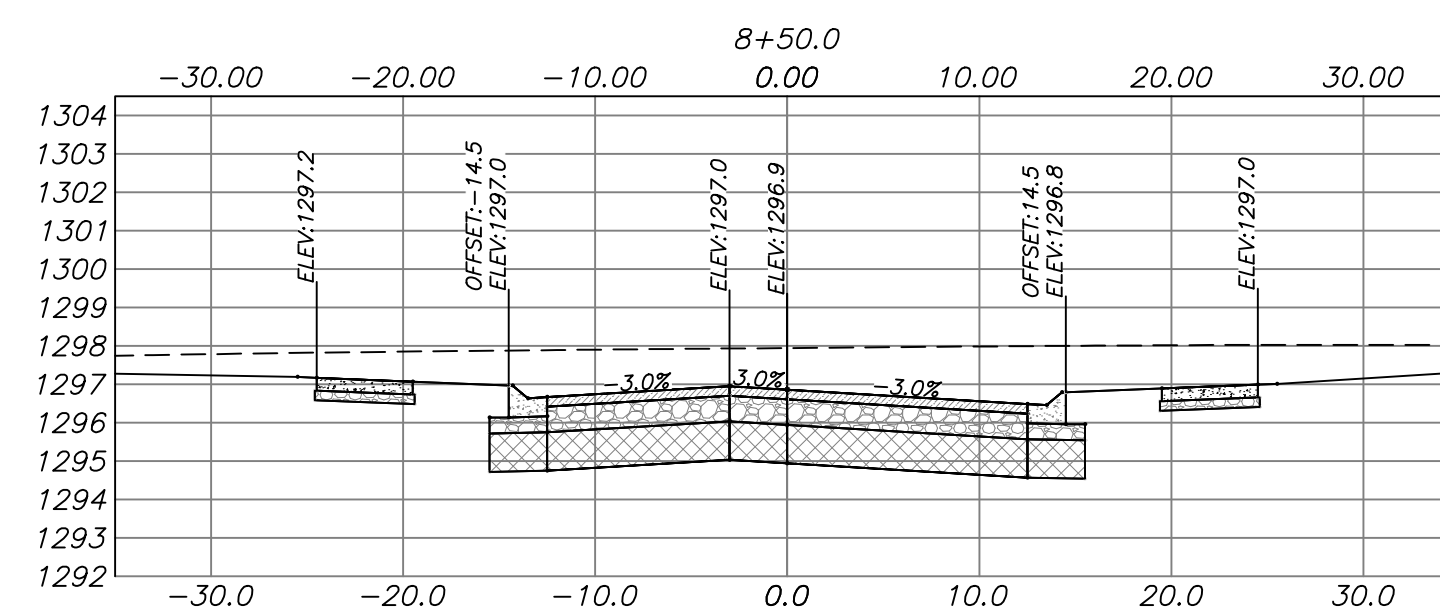
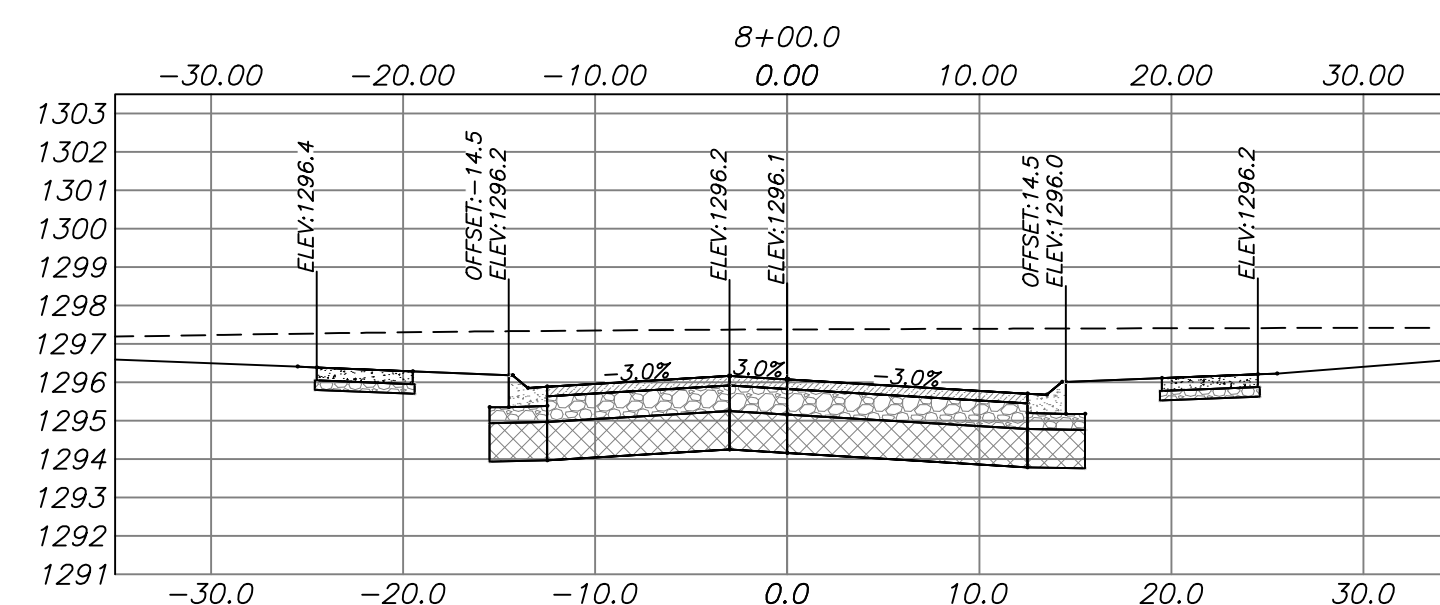
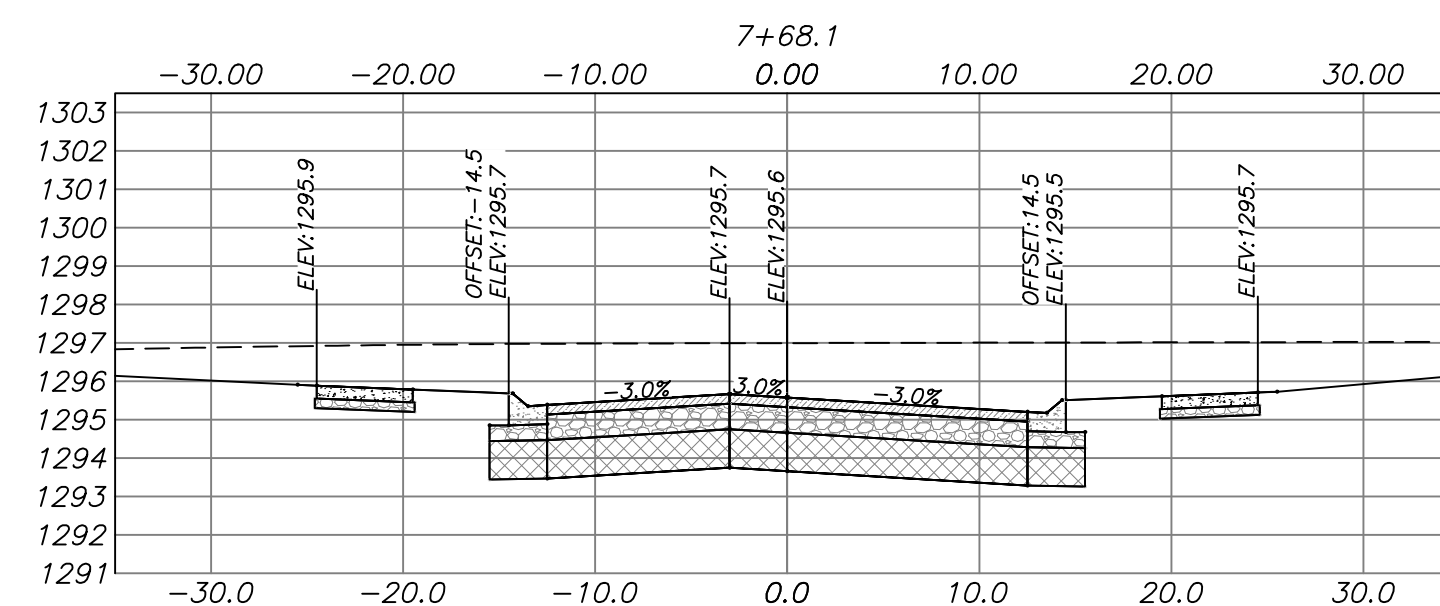
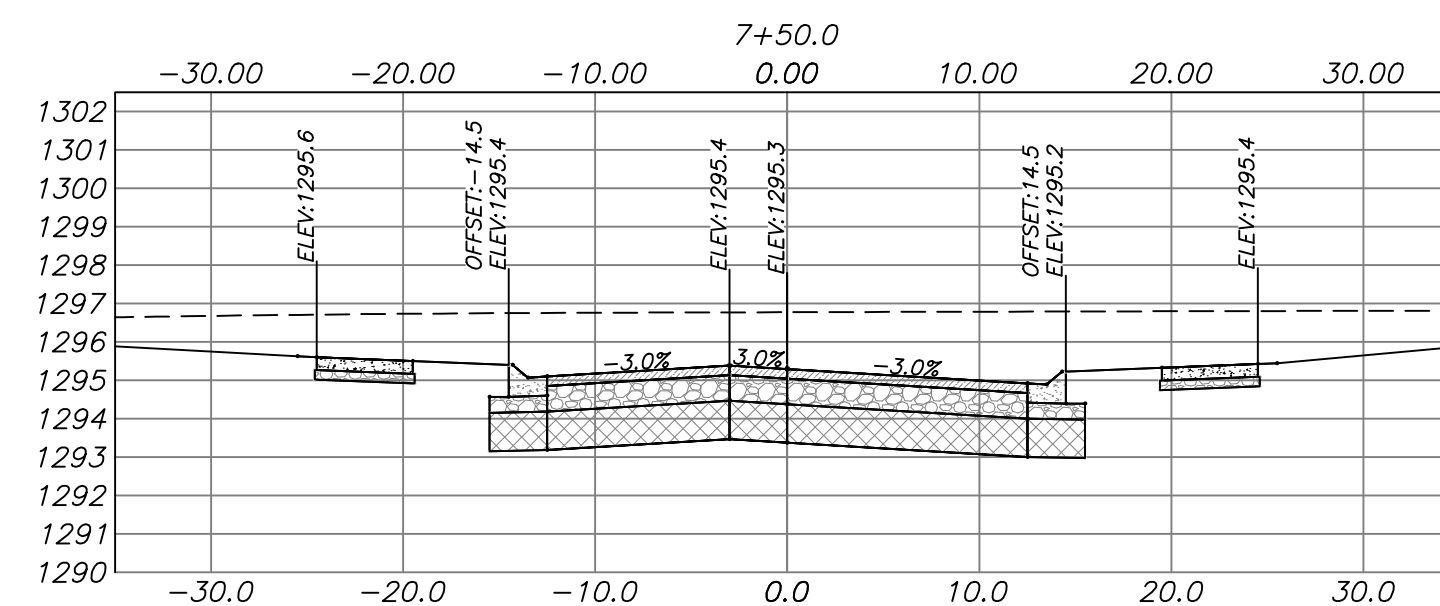
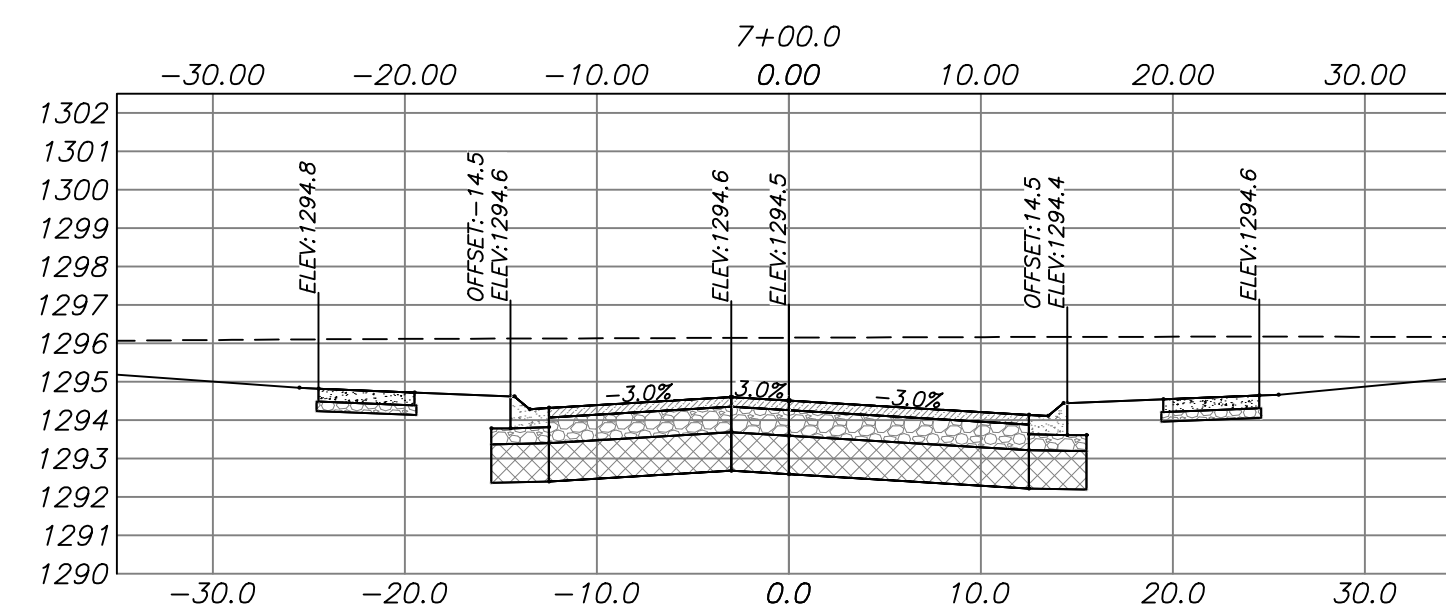
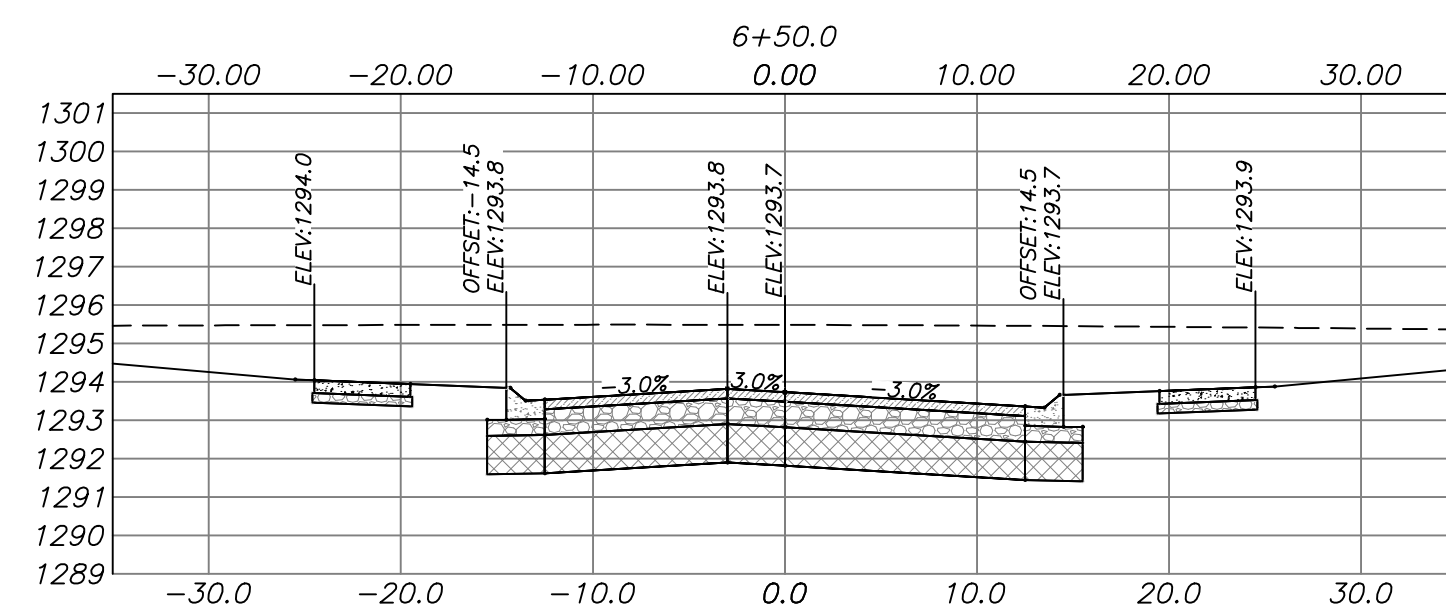
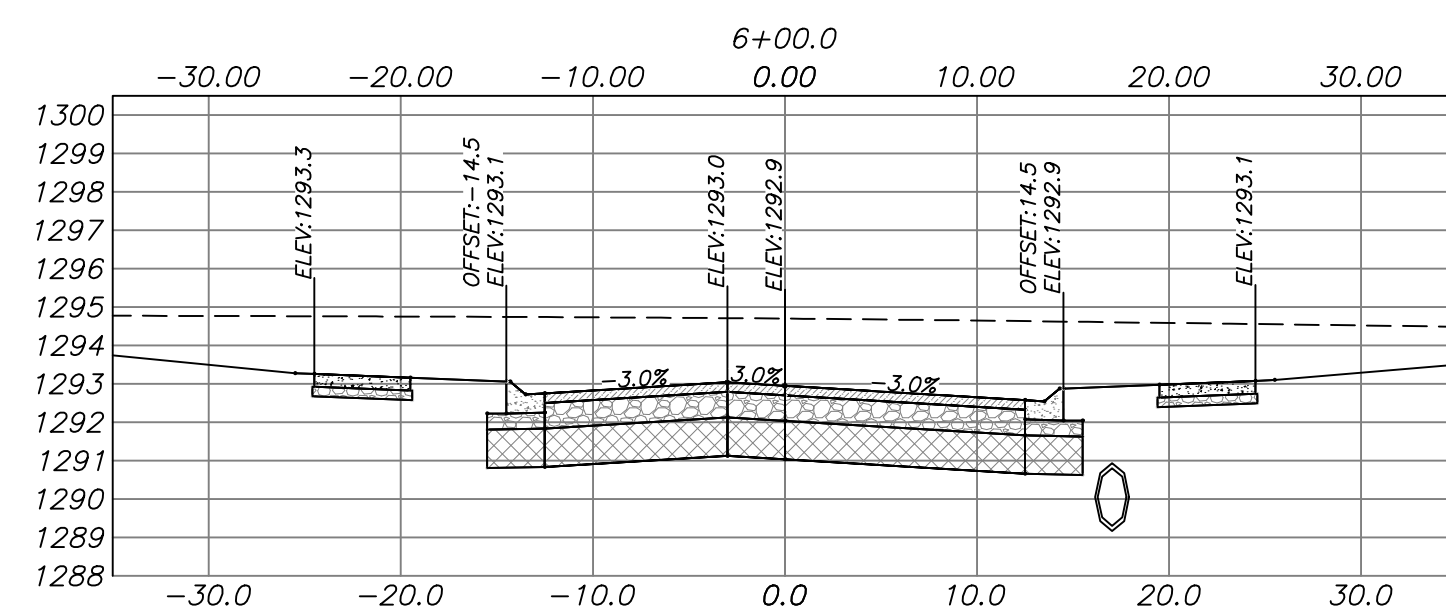
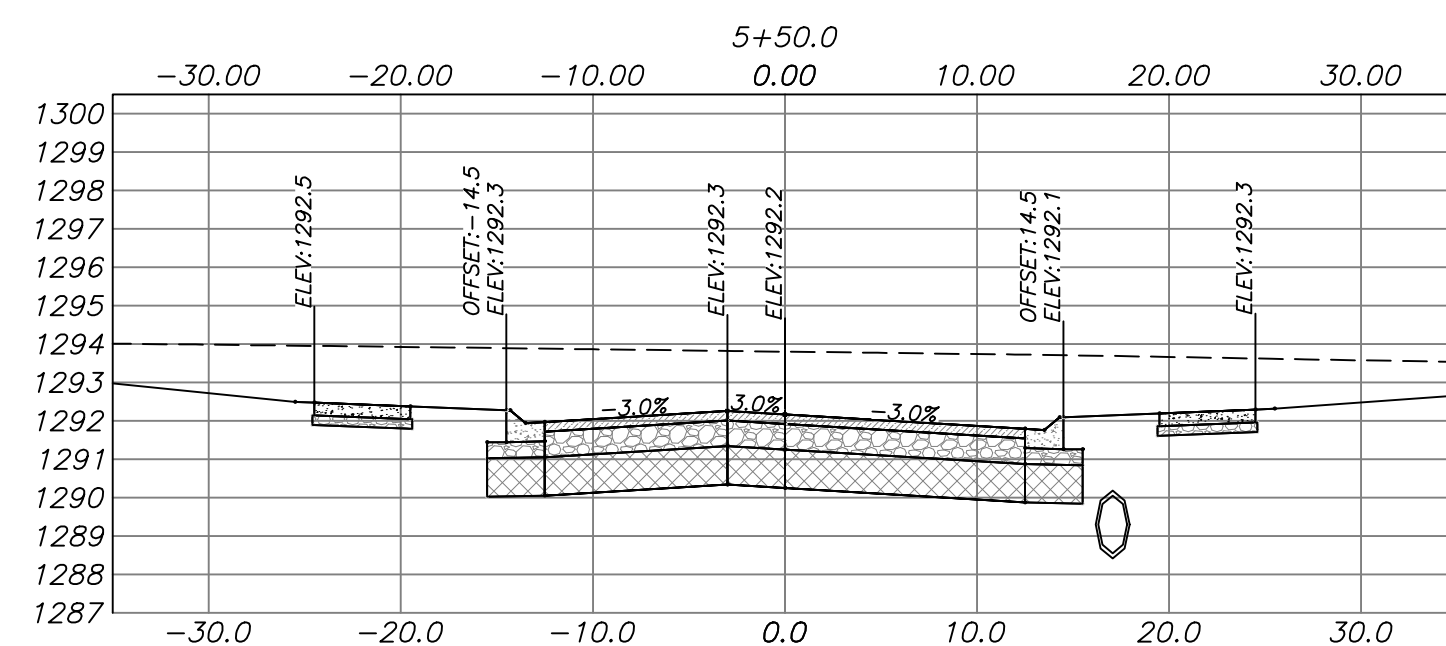
210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225



SOLDERA DRIVE CROSS SECTIONS
0+00 - 5+00
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For: NORRHO LLC
44285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Source:	AS SHOWN	Date:	08/30/19	No.	Revisions	Date
			REVISED 10/16/19			
Sheet:			12 of 31	1	AS PER CITY COMMENTS 9/10/19	9/16/19



SOLDERA DRIVE CROSS SECTIONS
5+50 - 9+50
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

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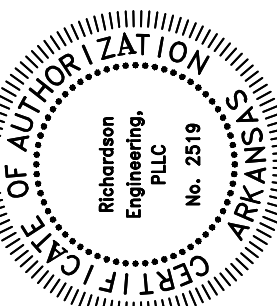
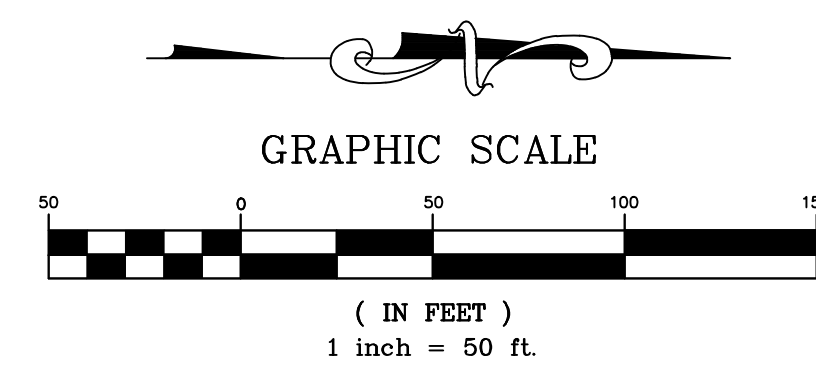


GENERAL NOTES

- 1.) TOWN/UNITY SPECIFICATIONS REFERS TO CHAPTER 90 OF THE DESIGN STANDARDS FOR THE CITY OF TOWN/UNITY, ARKANSAS.
- 2.) PROPOSED LOCATIONS OF TRAFFIC CONTROL MARKERS ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION MUST MEET MUTCD AND CITY OF TOWN/UNITY SPECS.
- 3.) PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH TOWN/UNITY SPECIFICATIONS, AND BASED ON GEOTECHNICAL ANALYSIS OF THE SITES.
- 4.) CONTRACTOR SHALL INCLUDE IN BID THE COST FOR COMPACTION TESTS ON SURGRADE & BASE. TEST TO BE CONDUCTED AS PER TOWN/UNITY SPECIFICATIONS.
- 5.) LUMBER POLES SHALL BE PLACED AT ALL INTERSECTIONS AND SPACED 300' MAXIMUM THROUGHOUT THE DEVELOPMENT OR AS PER CITY OF TOWN/UNITY SPECIFICATIONS.
- 6.) ALL STOP SIGNS SHALL BE 30" X 30"
- 7.) BACK OF CURB RADIUS AT ALL INTERSECTIONS SHALL BE 25'.
- 8.) CURB INLETS CONSTRUCTED SO THAT POOLING OF WATER DOES NOT OCCUR AT INTERSECTIONS.
- 9.) ALL STORM SEWER LIDS SHALL BE PER CITY OF TOWN/UNITY SPECIFICATIONS.
- 10.) ALL SIDEWALKS AND CURB/GUTTER TO BE CONSTRUCTED PER TOWN/UNITY SPECIFICATIONS.
- 11.) SIDEWALKS TO BE CONSTRUCTED ALONG WITH INDIVIDUAL DRIVEWAYS. ALL SIDEWALKS TO MEET ADA REQUIREMENTS.
- 12.) * - INDICATES ADA APPROVED HANDICAP RAMP.
- 13.) DEVELOPMENT SHALL ADHERE TO CITY OF TOWN/UNITY STORMWATER REQUIREMENTS.
- 14.) THE APPROXIMATE LOCATION OF KNOWN SURFACE AND SUBSURFACE STRUCTURES, PIPES, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE DESIGN DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF THE FOREMENTIONED ITEMS, SHOWN AND NOT SHOWN, ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE UTILITY OR OWNER OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF THE CONTRACTOR.

LEGEND

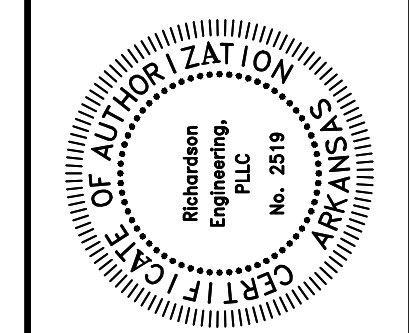
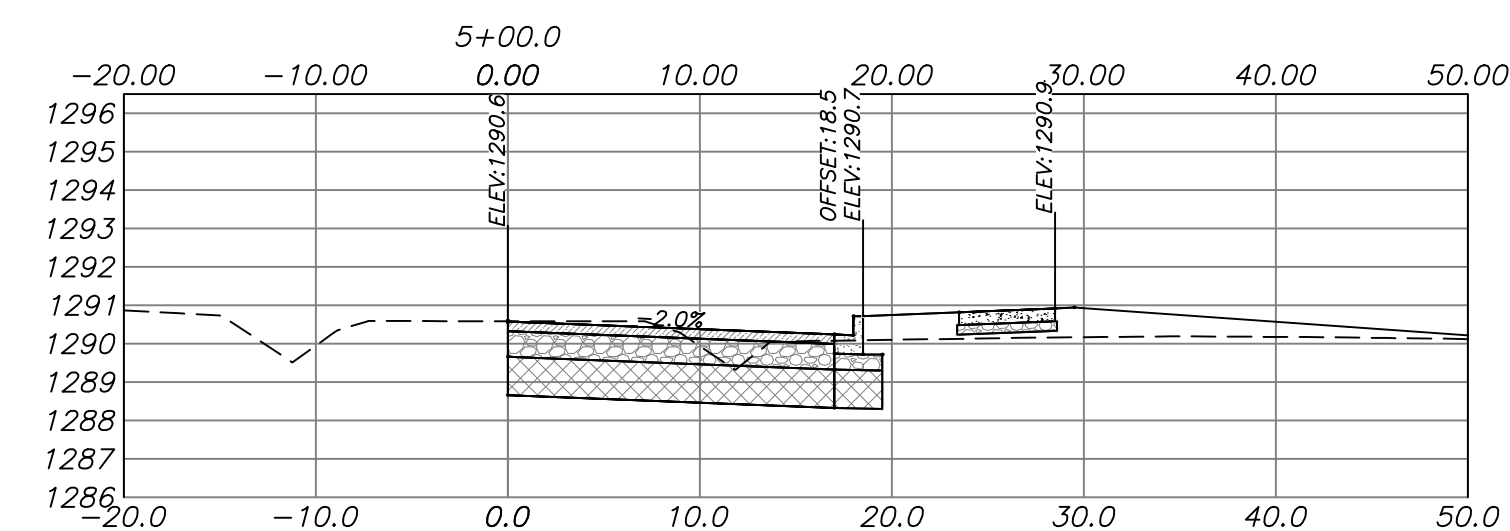
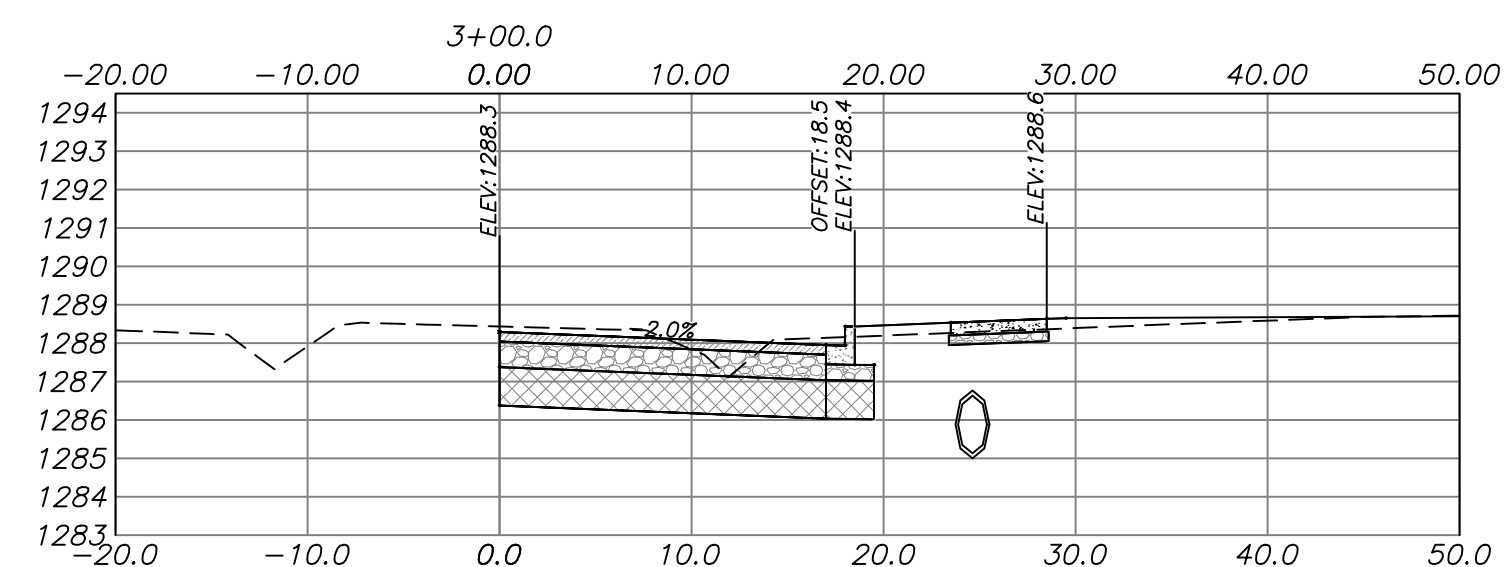
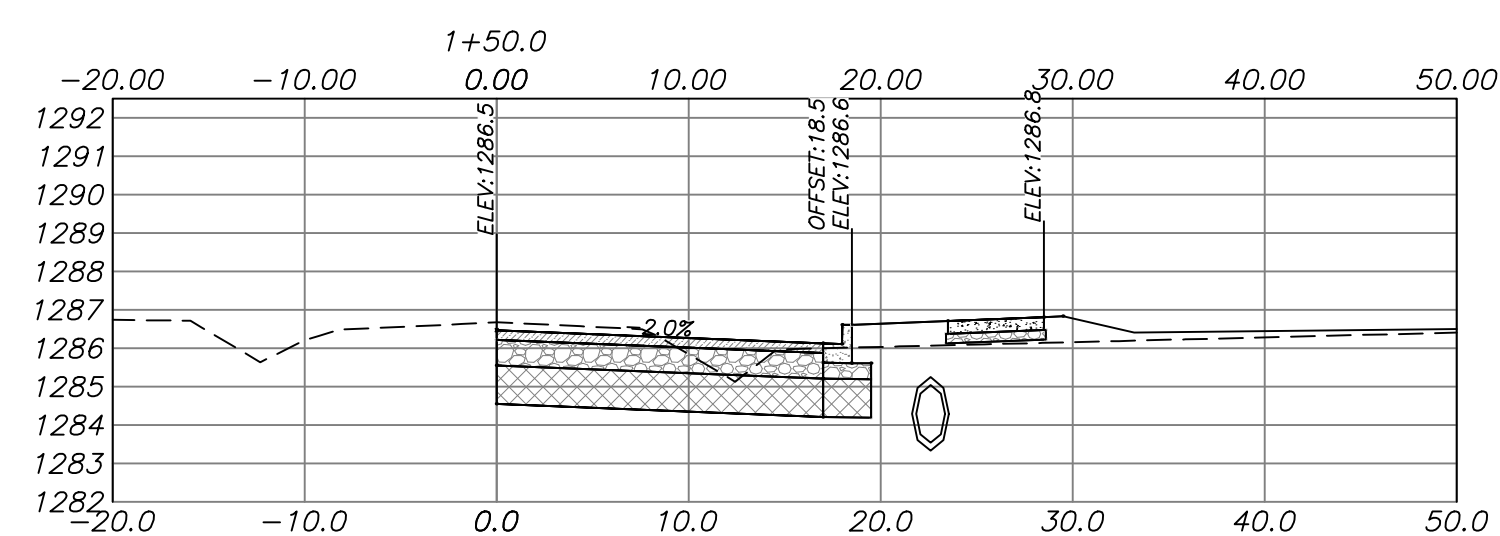
-  STOP SIGN
-  STREET NAME SIGN
-  TRAFFIC SIGN
-  STREET LIGHT
- * ADA APPROVED HANDICAP RAMP



ARDEMAGNI DR. PLAN & PROFILE
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

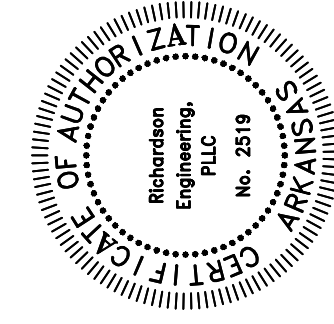
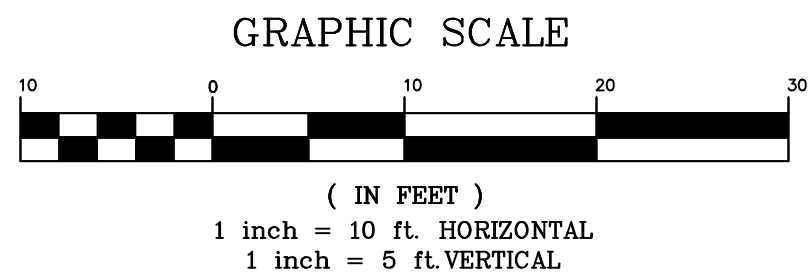
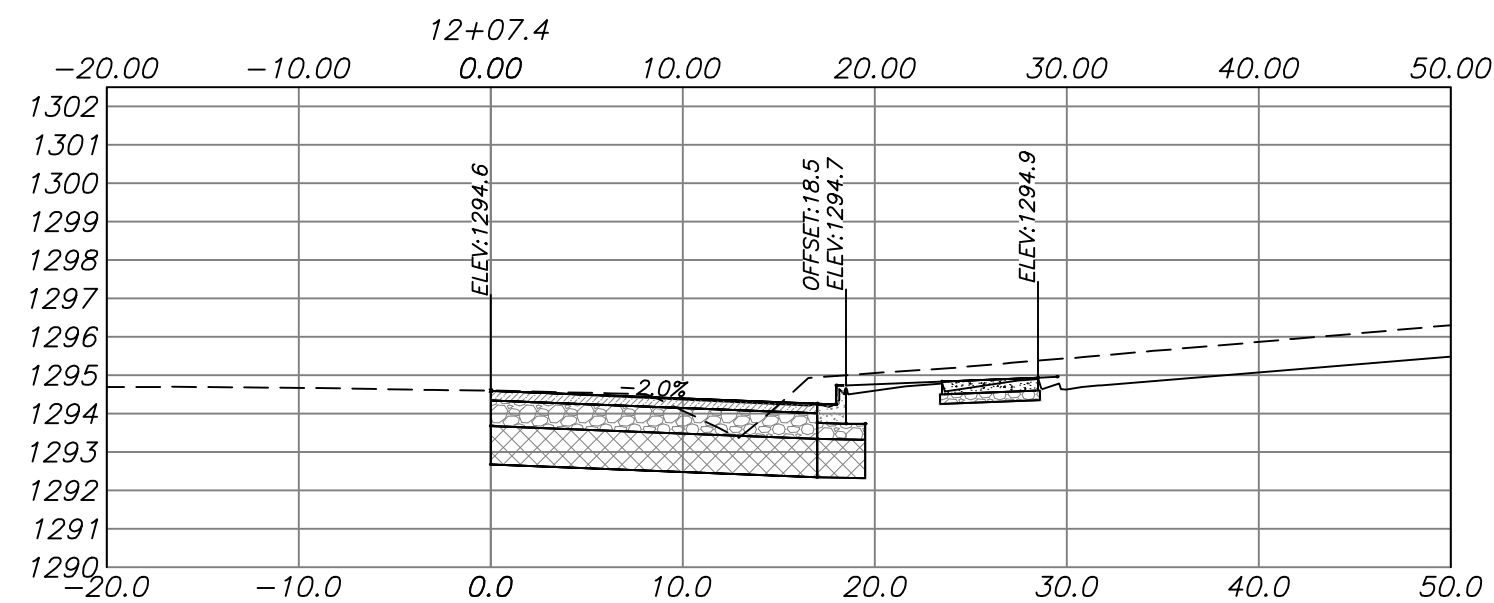
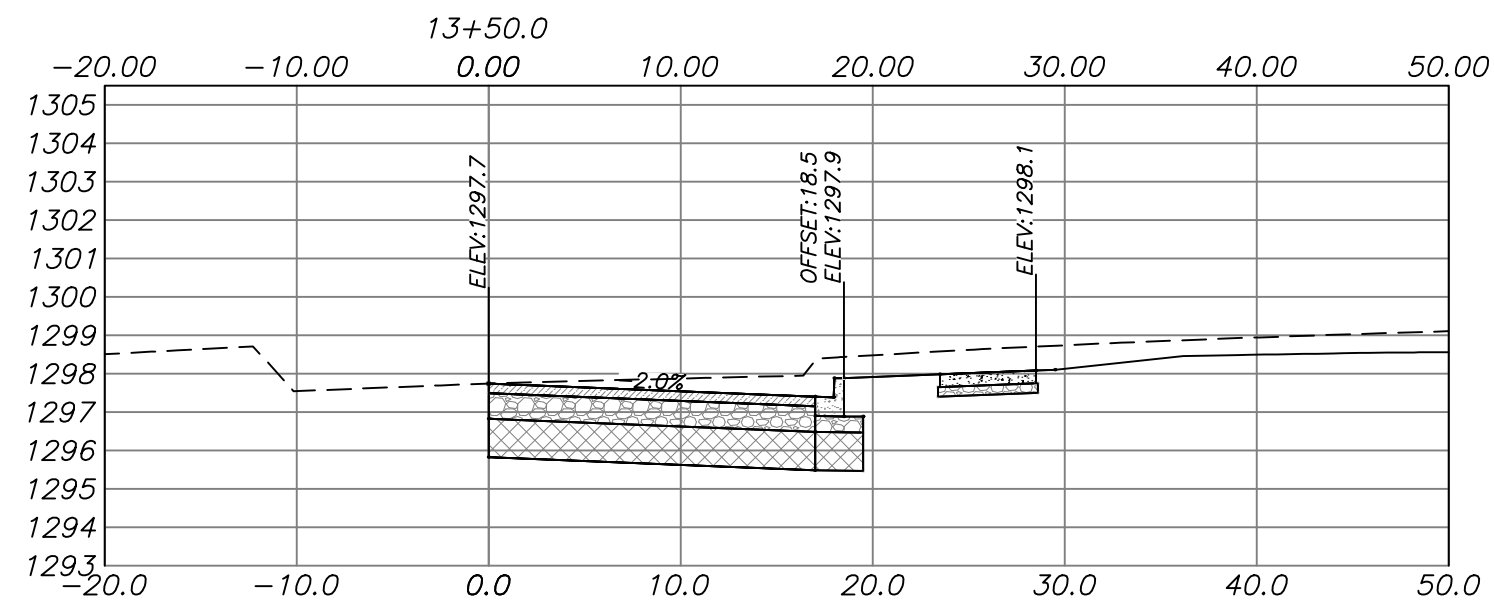
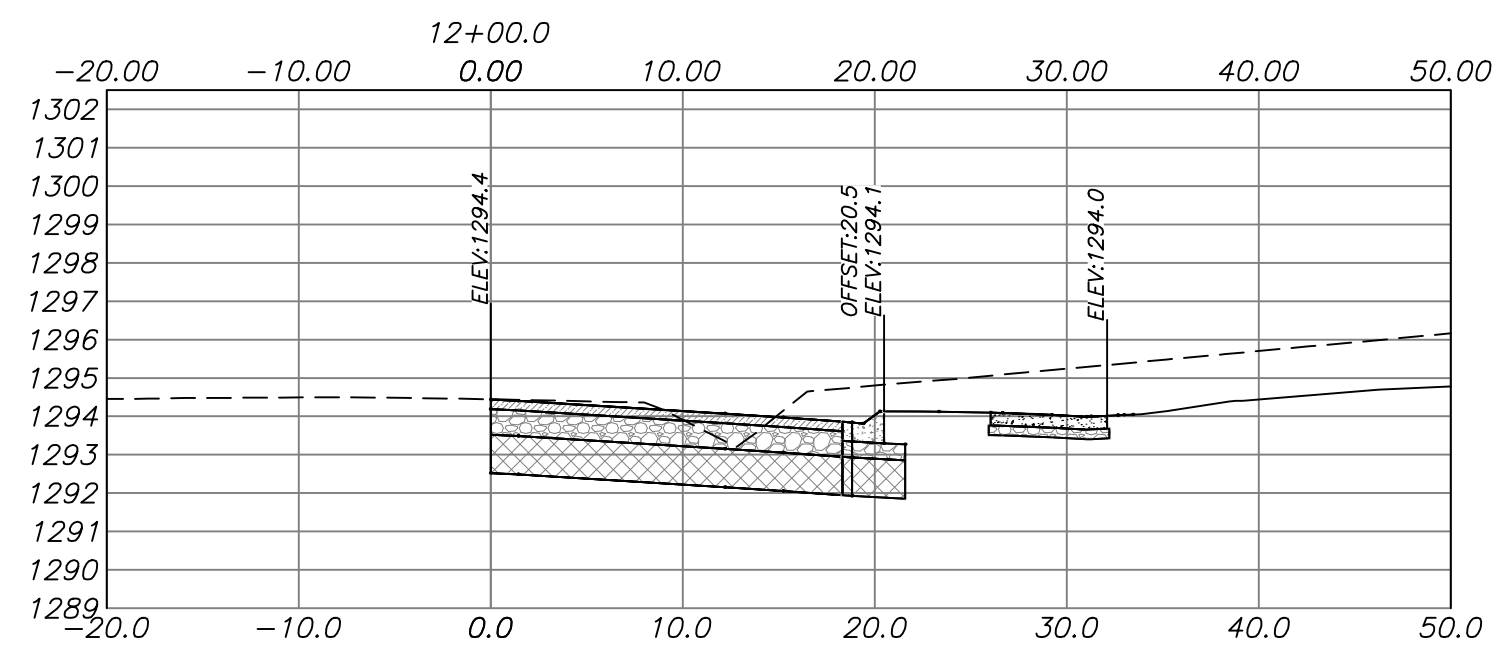
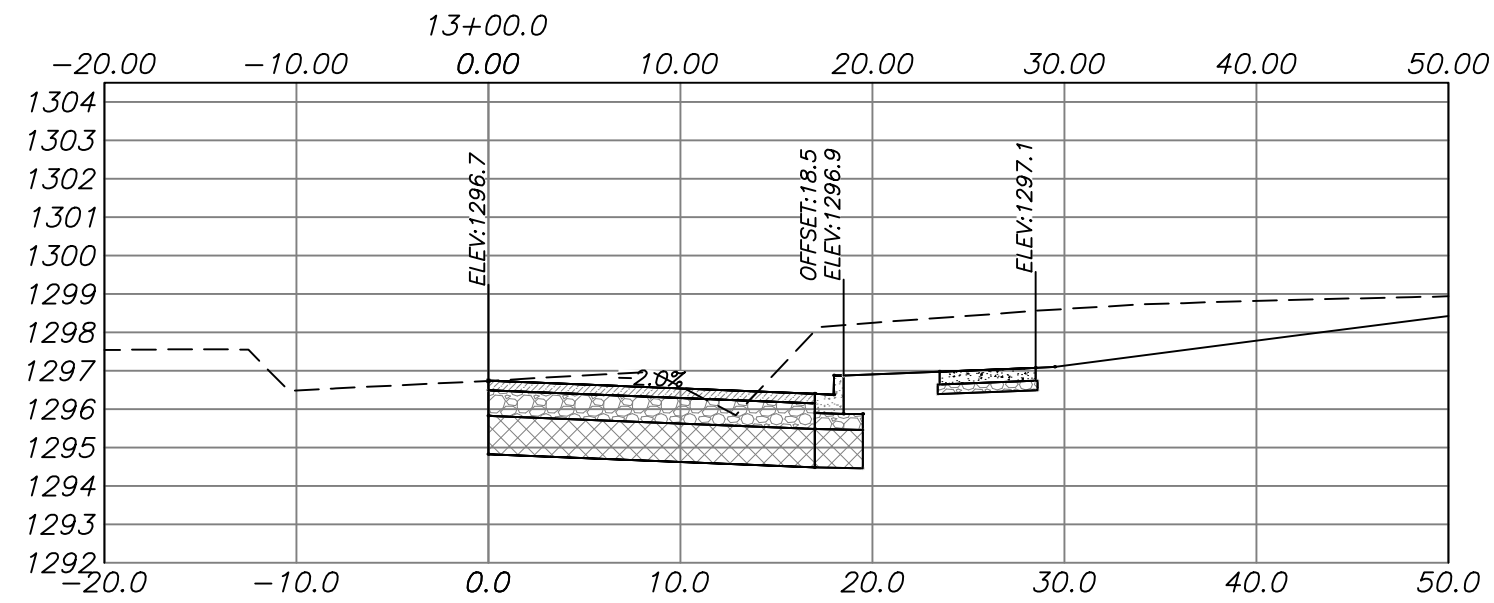
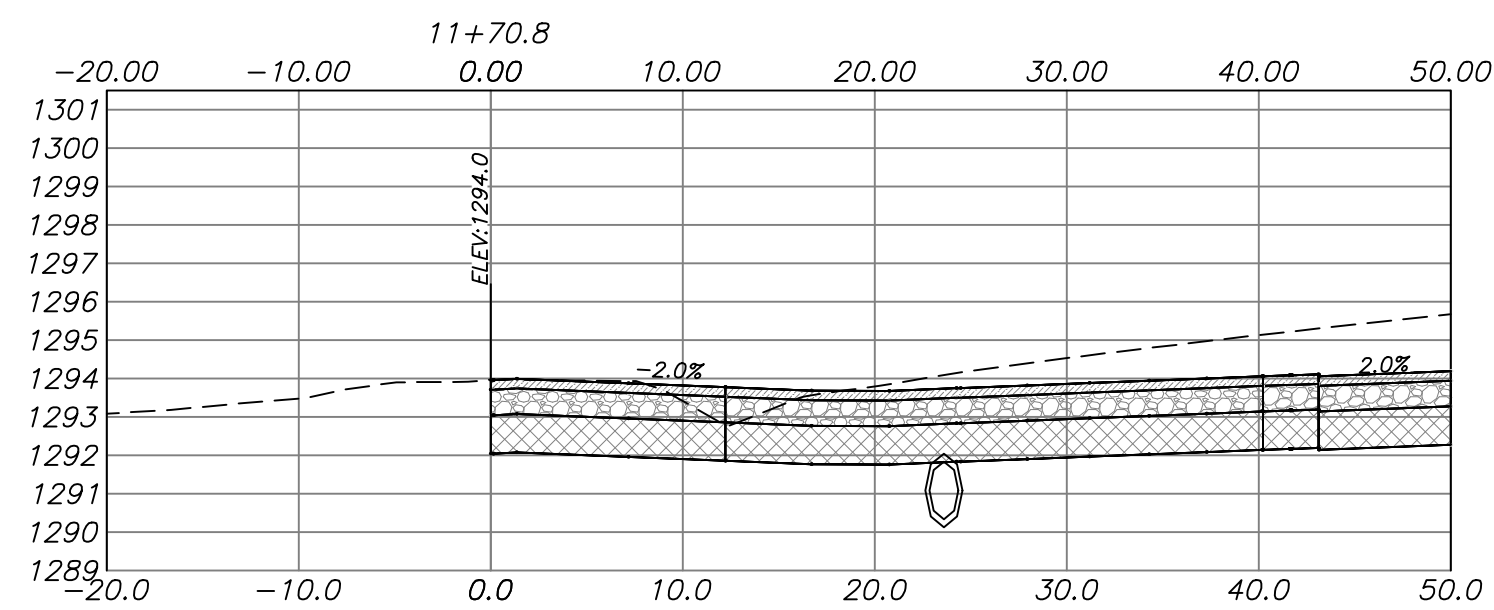
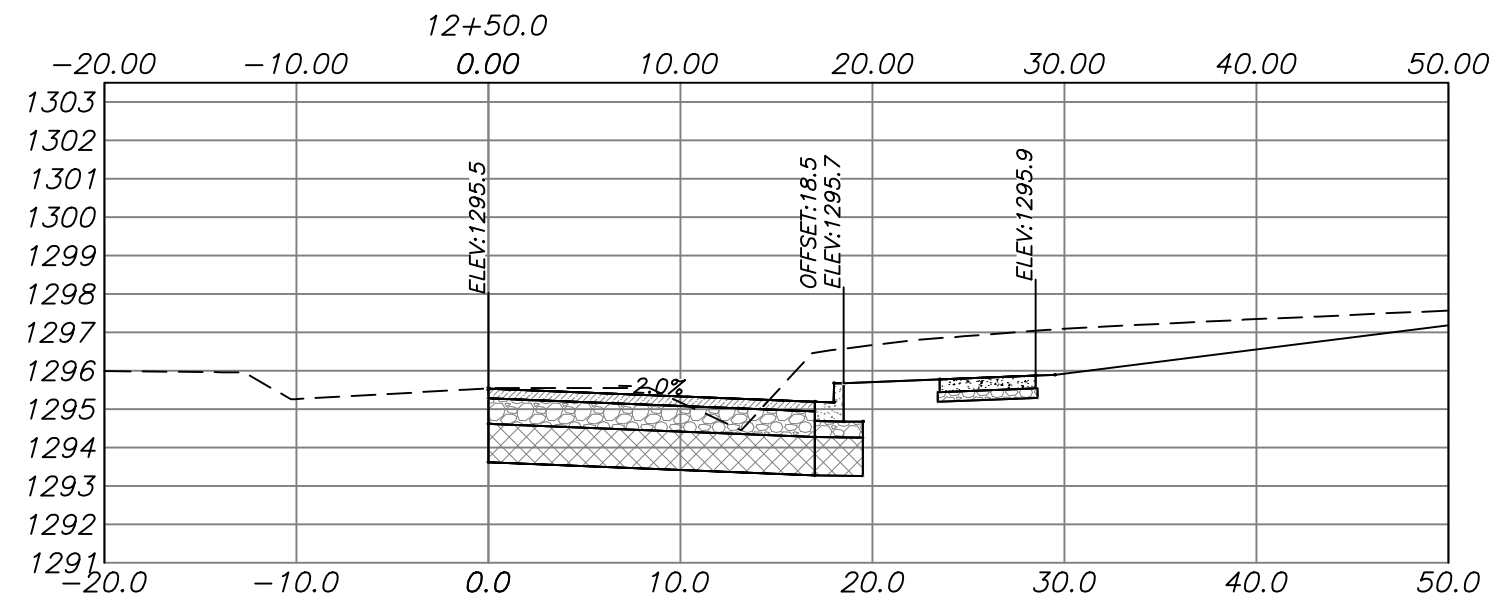
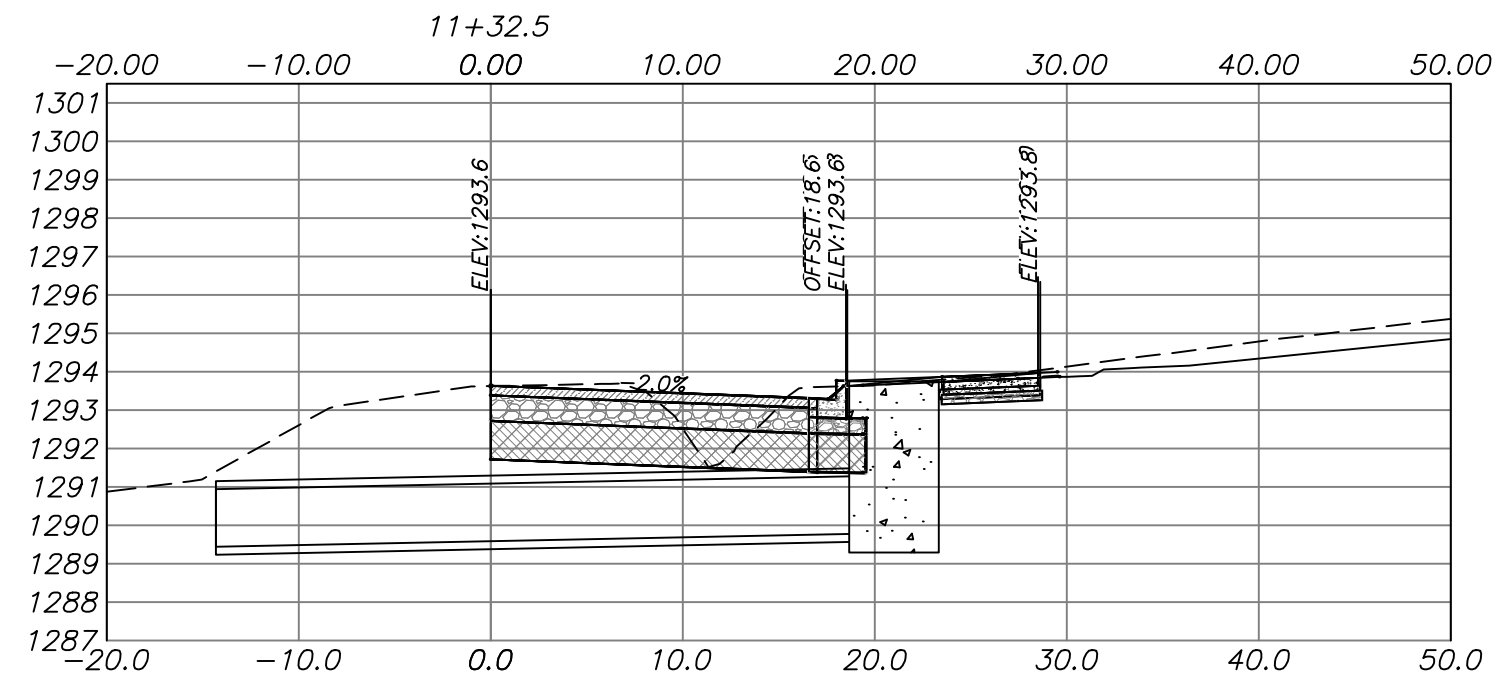
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ARDEMAGNI HALF STREET
CROSS SECTIONS 0+00-5+00
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

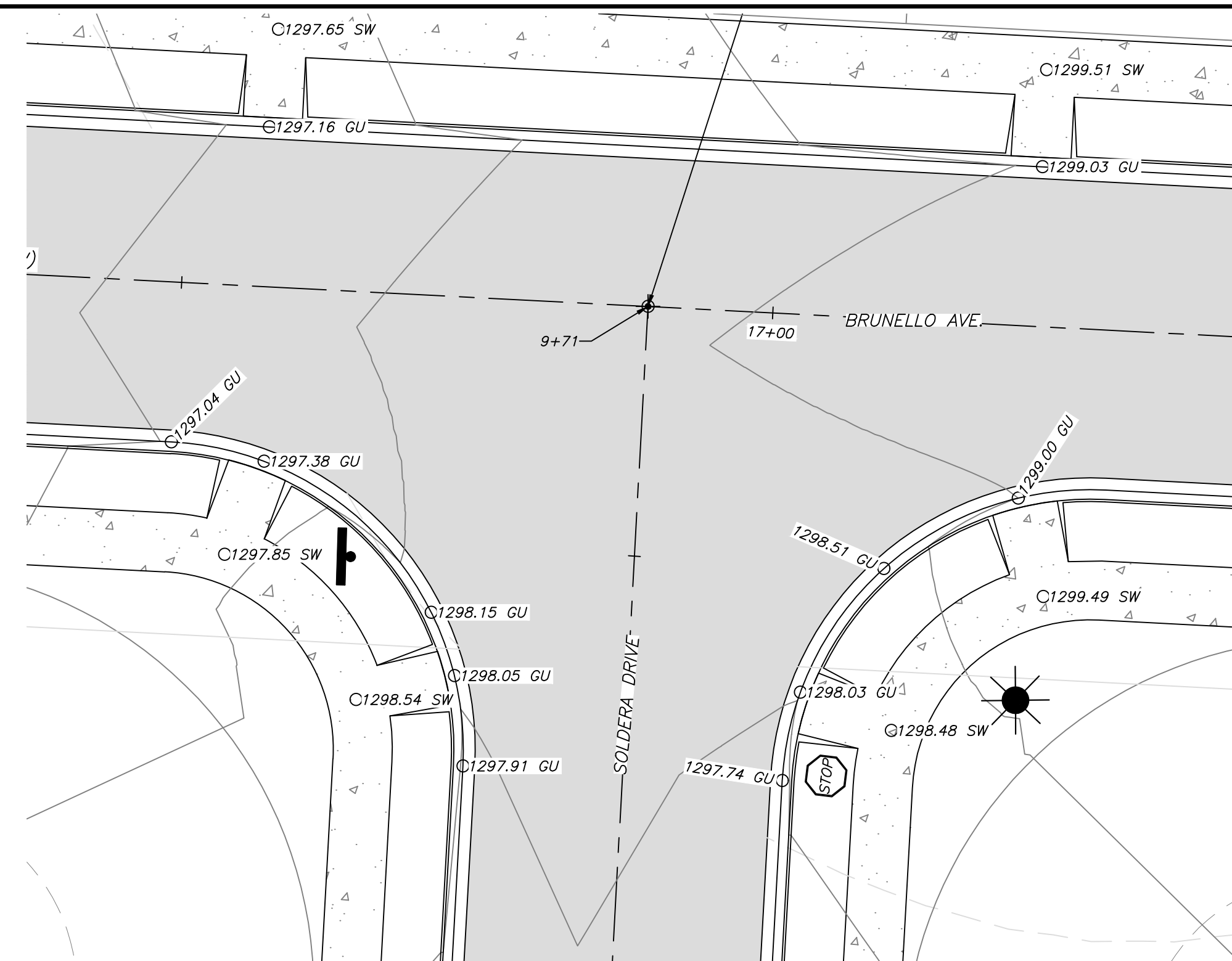
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ARDEMAGNI HALF STREET
CROSS SECTIONS 11+50-13+50
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

No.	Revisions	Date	Scale	Sheet
			AS SHOWN	17 of 31
			08/30/19	



GRAPHIC SCALE



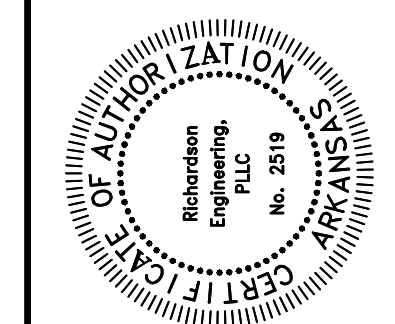
(IN FEET)
1 inch = 10 ft.

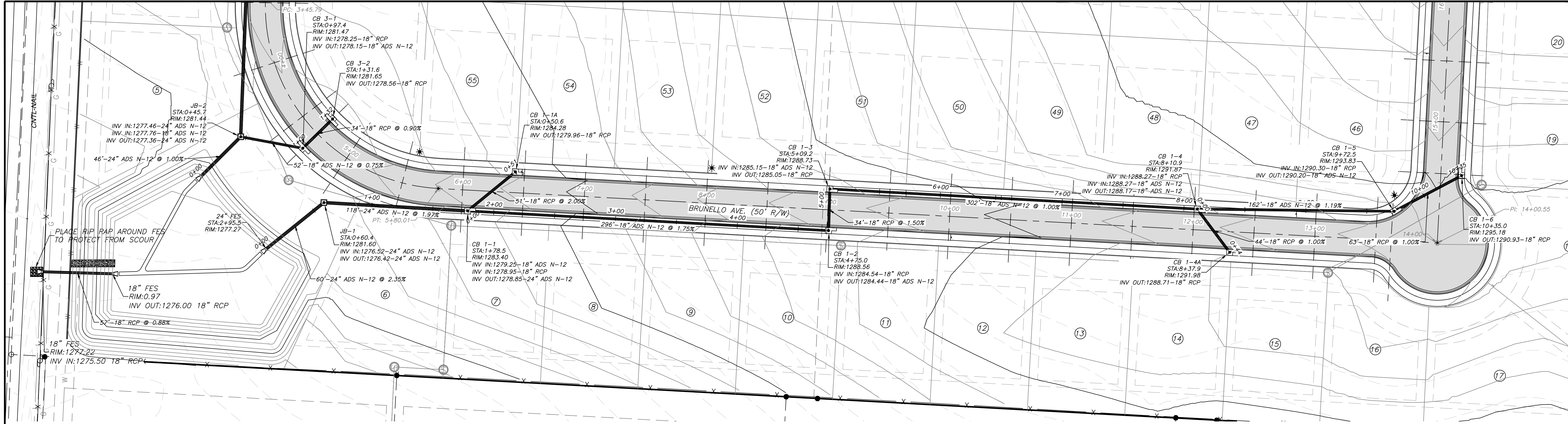
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- 3) PAYEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH TONITOWN SPECIFICATIONS, AND BASED ON GEOTECHNICAL ANALYSIS OF THE PROPOSED AREAS.
- 4) CONTRACTOR SHALL INCLUDE IN BID THE COST FOR COMPACTION TESTS ON SUBGRADE & BASE. TEST TO BE CONDUCTED AS PER TONITOWN SPECIFICATIONS.
- 5) LIQUID CURB SHALL BE PLACED AT ALL INTERSECTIONS AND SPACED 300' MAXIMUM THROUGHOUT THE DEVELOPMENT OR AS PER CITY OF TONITOWN SPECIFICATIONS
- 6) ALL STOP SIGNS SHALL BE 30" X 30"
- 7) BAGG OF CURB SHALL BE PLACED AT ALL INTERSECTIONS SHALL BE 25'.
- 8) CURB INLETS CONSTRUCTED SO THAT POOLING OF WATER DOES NOT OCCUR AT INTERSECTIONS.
- 9) ALL STORM SEWER SLEDS SHALL BE PER CITY OF TONITOWN SPECIFICATIONS
- 10) ALL SIDEWALKS AND CURB/GUTTER TO BE CONSTRUCTED PER TONITOWN SPECIFICATIONS.
- 11) SIDEWALK TO BE CONSTRUCTED WITH INDIVIDUAL DRIVEWAYS. ALL SIDEWALKS TO MEET ADA REQUIREMENTS.
- 12) - - INDICATES ADA APPROVED HANDICAP RAMP.
- 13) - - - - - INDICATES CONTRACTOR ADHERE TO CITY OF TONITOWN STORMWATER REQUIREMENTS.
- 14) APPROXIMATE LOCATION OF KNOWN SURFACE AND SUBSURFACE STRUCTURES, PIPES, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE DESIGN DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF THE AFOREMENTIONED ITEMS SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE UTILITY OR OWNER OF THE STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



Prepared For: **NORRHO LLC**
4285 N. SHILOH DRIVE
FAYETTEVILLE AR 72703

Scale: 1" = 10'	Date: 08/30/19 REV: 09/10/19	No. 1	Revisions AS PER CITY COMMENTS 9/10/19	Date 9/16/19
Sheet: 17A of 31				



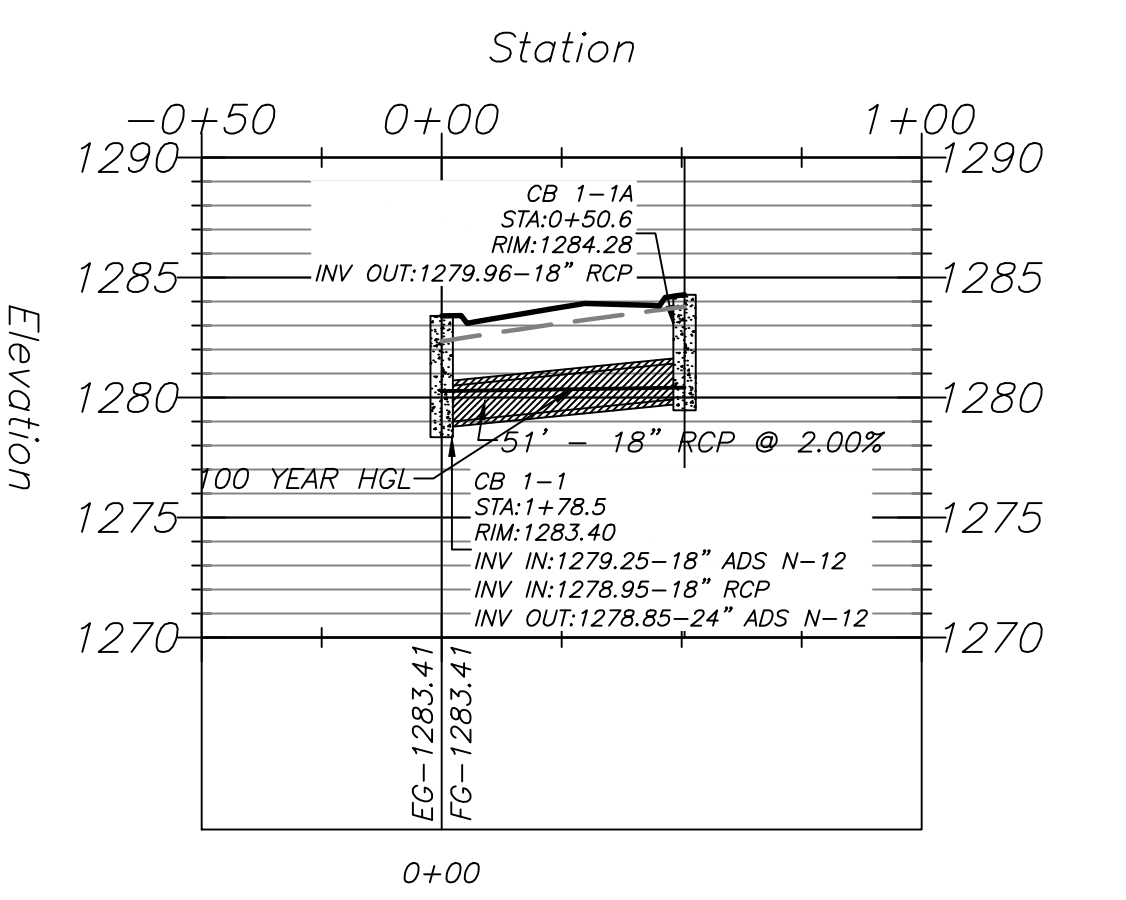


LEGEND

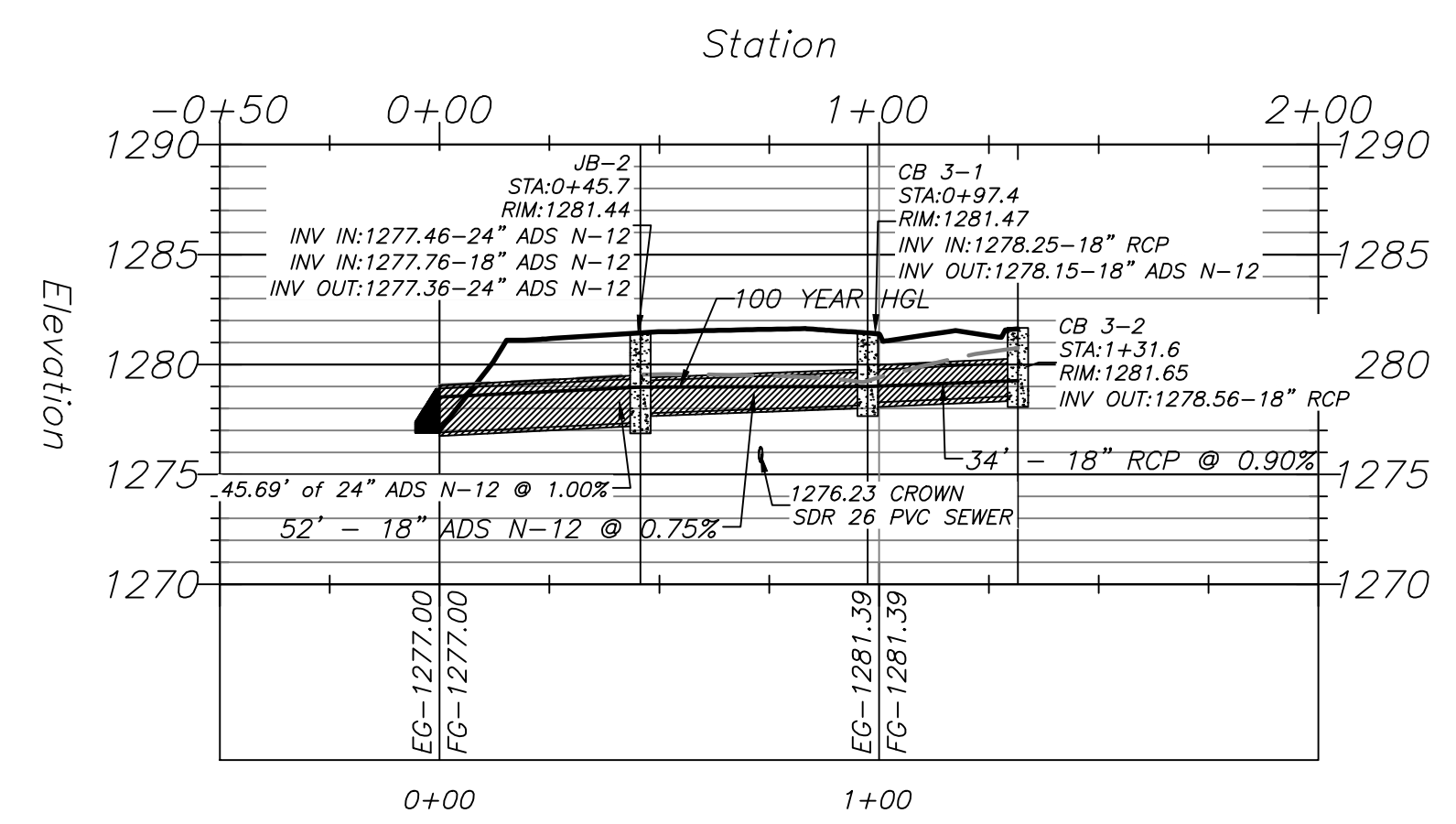
— S —	SANITARY SEWER
— W —	SEWER FORCEMAIN
— W —	WATER LINE
— S —	STORM DRAIN
— S —	DITCH OR SWALE
— E —	POWER LINE (OVERHEAD)
□	PROPOSED WATER METER BOX
○	EXISTING MANHOLE
○	PROPOSED MANHOLE
●	GATE VALVE
●	BLOW-OFF
●	FIRE HYDRANT
○	CURB INLET
○	FES
○	POWER POLE

- GENERAL NOTES:**
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 - 2) ALL STORM DRAINAGE SHALL BE AS SHOWN ON THE PLAN.
 - 3) ATTENTION IS CALLED TO WATER, SEWER, AND STREET LAYOUT FOR ADDITIONAL INFORMATION.
 - 4) ATTENTION IS CALLED TO CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
 - 5) ALL UTILITIES TO BE LOCATED PRIOR TO CONSTRUCTION (ONE CALL, CITY, ETC.).
 - 6) DEVELOPMENT SHALL ADHERE TO CITY OF TONTOWN STORMWATER REQUIREMENTS.
 - 7) CONTRACTOR TO ADHERE TO CURRENT OSHA EXCAVATION & TRENCH SAFETY REGULATIONS.
 - 8) BACKFILL MATERIAL FOR STREET CROSSINGS SHALL BE ACCORDING TO TONTOWN STREET DEPT SPECS AND COMPACTED TO 95% M.P. UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND UTILITY OWNER.
 - 9) THIS SHEET IS INTENDED TO SHOW ONLY THE GENERAL LOCATION OF THE PROPOSED UTILITIES AND ASSIST IN COORDINATING UTILITY CROSSINGS. CONTRACTOR SHALL USE WATER, SEWER, AND STREET LAYOUT SHEETS FOR DETERMINING ACTUAL LOCATION OF INLETS, JUNCTION BOXES, VALVES, FIRE HYDRANTS, MANHOLES, ETC..
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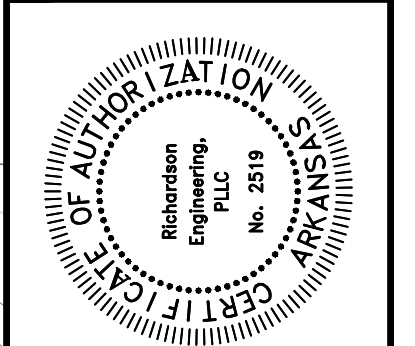
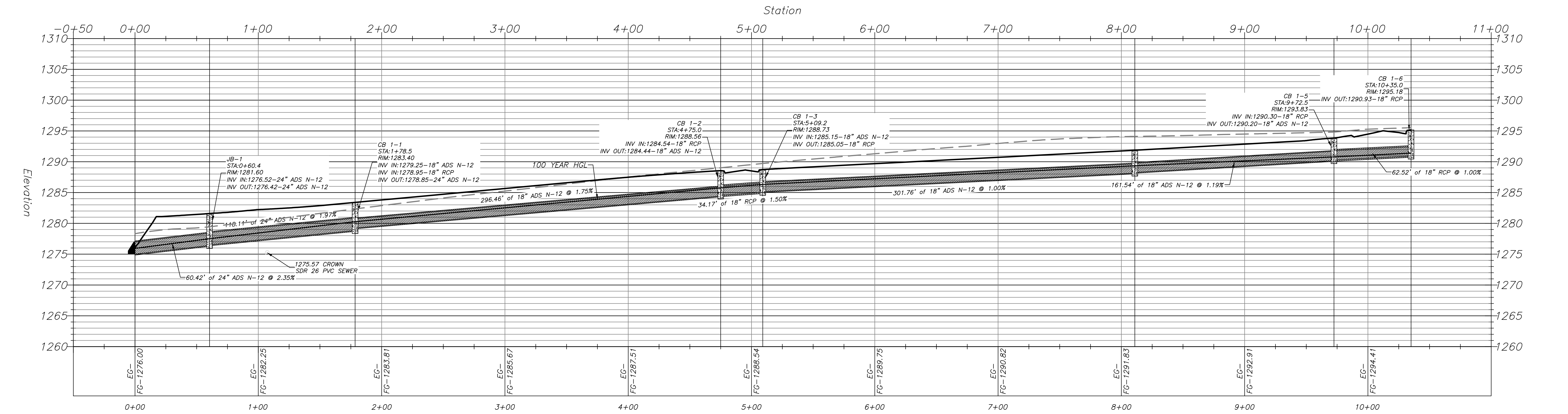
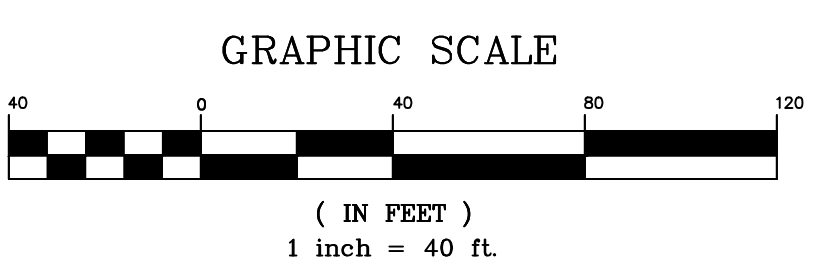
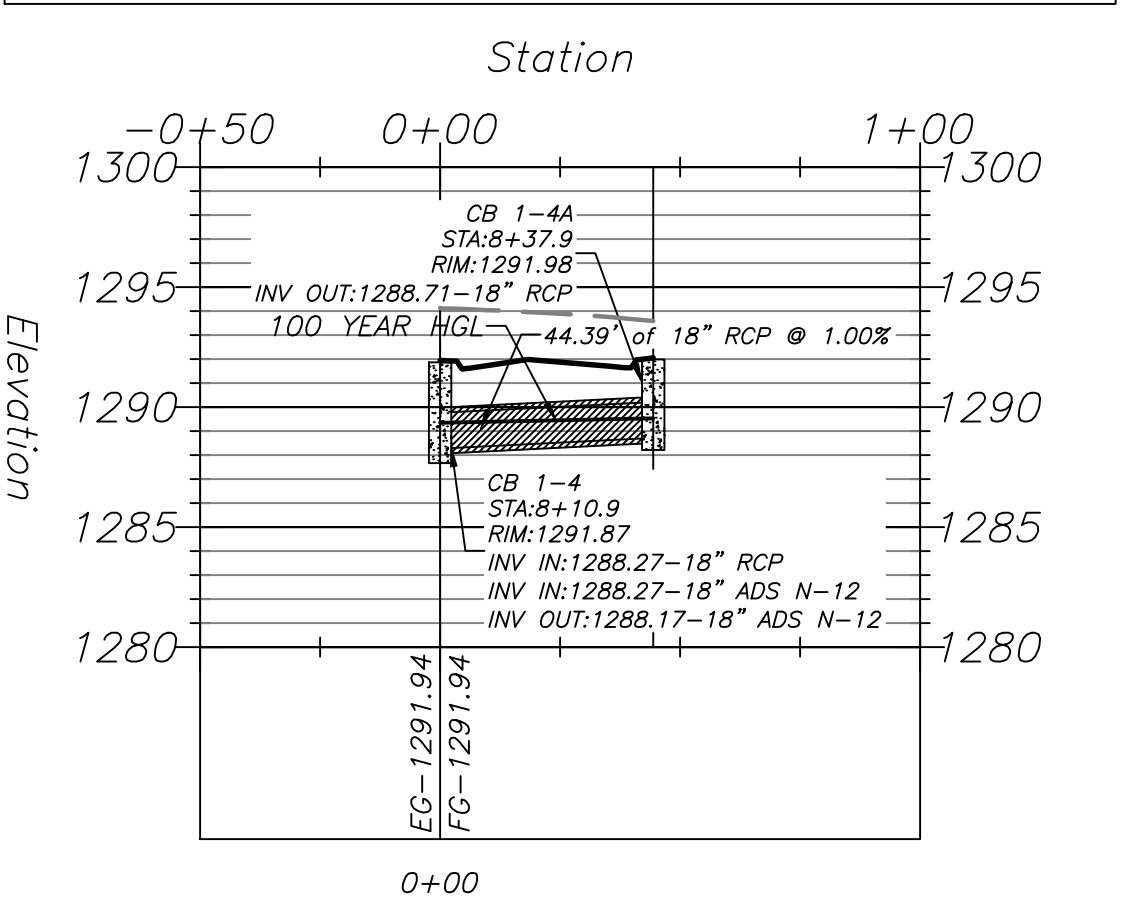
STORM SEWER 1-2 PROFILE



STORM SEWER 1-3 PROFILE



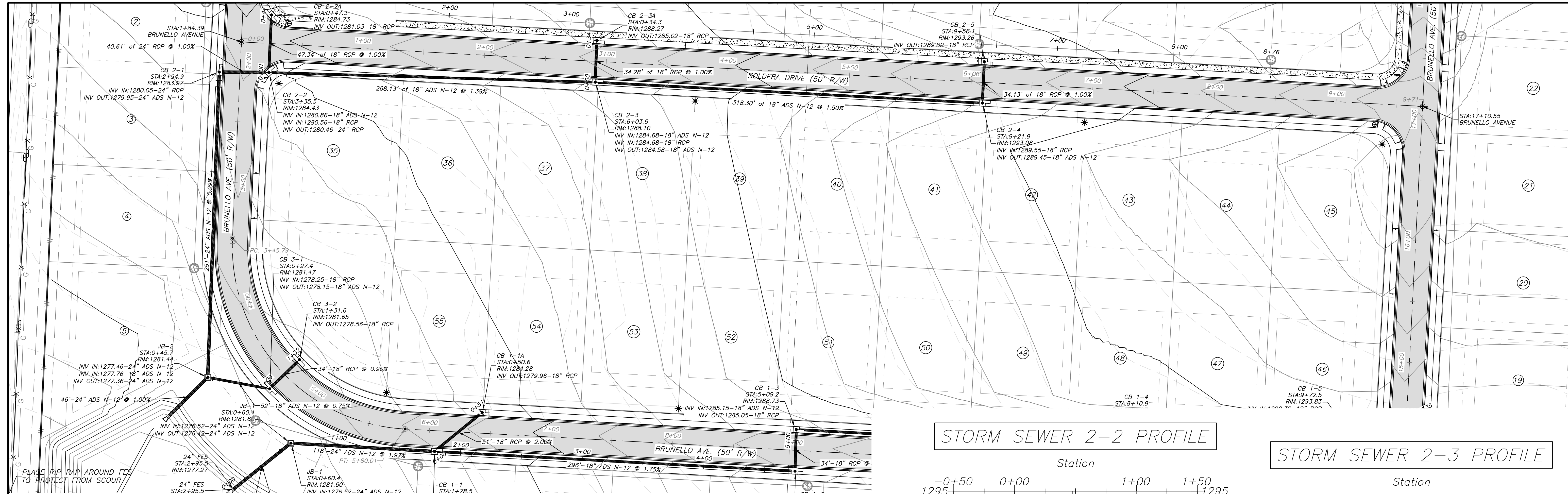
STORM SEWER 1-4 PROFILE



STORM SEWER 1 PLAN & PROFILE
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

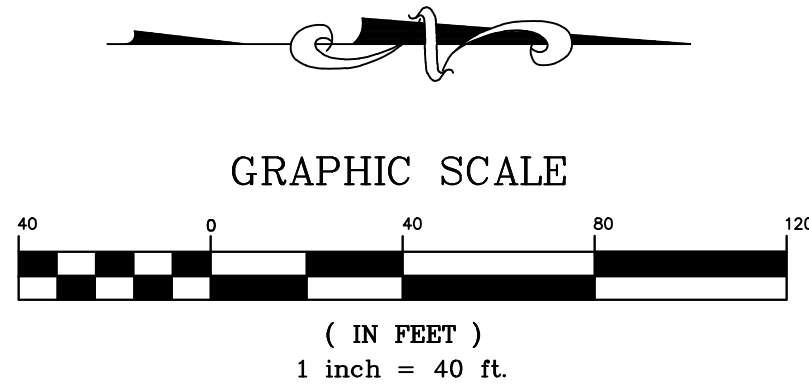
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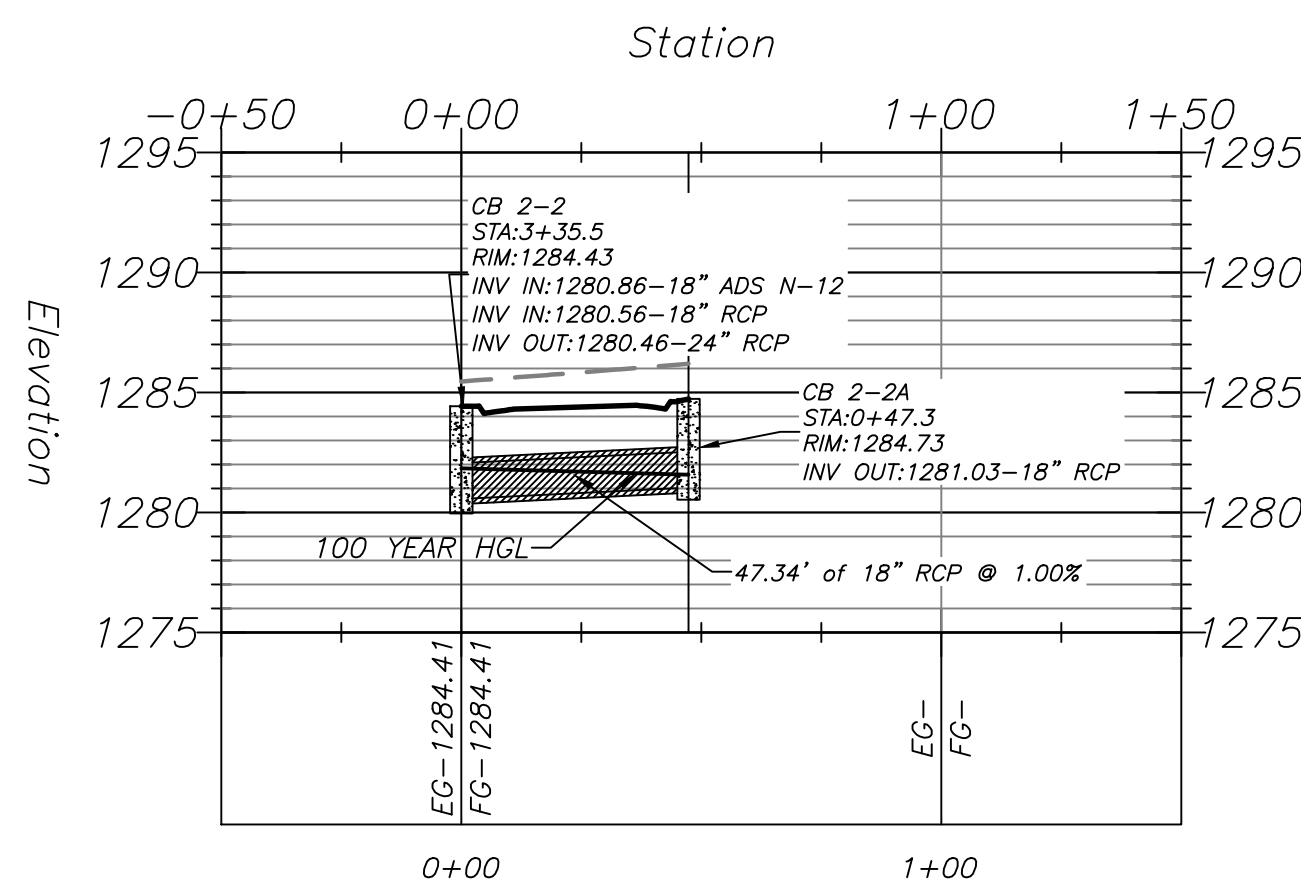
LEGEND

S	SANITARY SEWER
—	SEWER FORCEMAIN
W	WATER LINE
---	STORM DRAIN
---	DITCH OR SWALE
E	POWER LINE (OVERHEAD)
W	PROPOSED WATER METER BOX
⊙	EXISTING MANHOLE
⊙	PROPOSED MANHOLE
W	GATE VALVE
W	BLOW-OFF
W	FIRE HYDRANT
⊙	CURB INLET
⊙	FES
⊙	POWER POLE

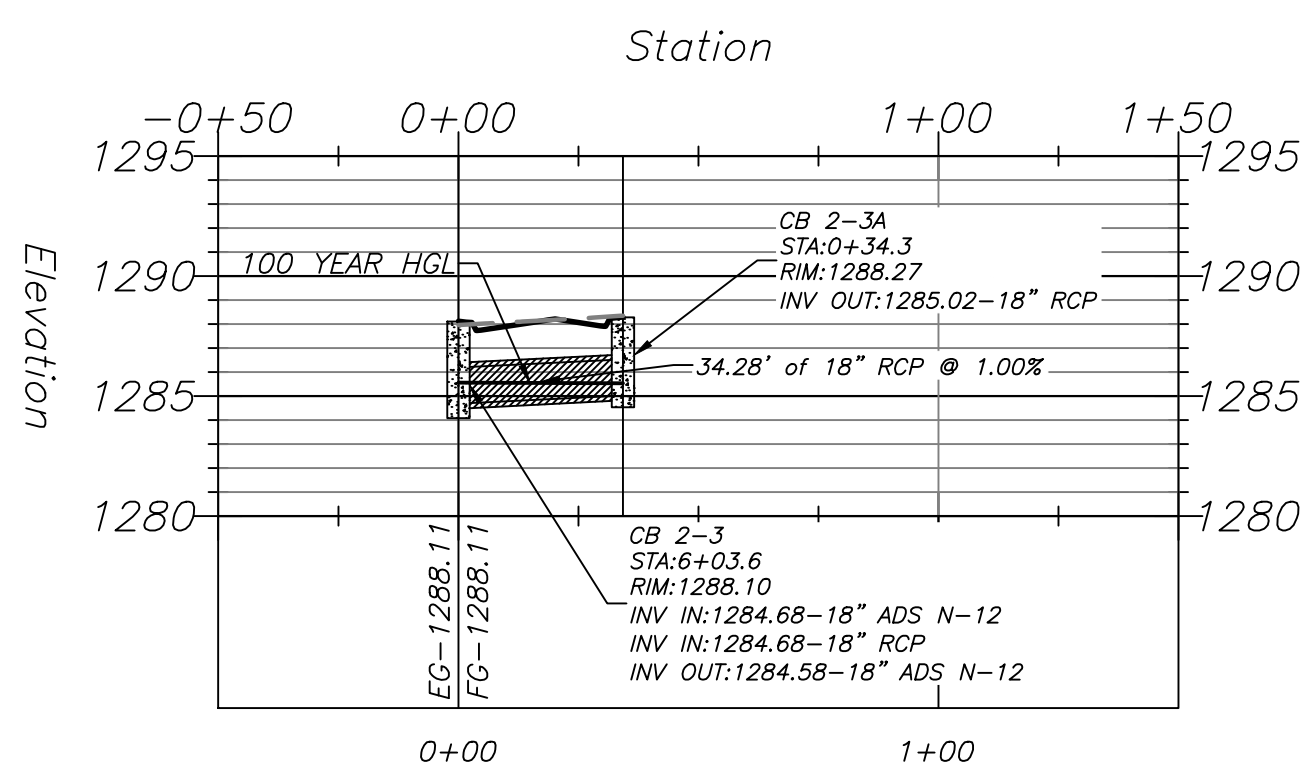
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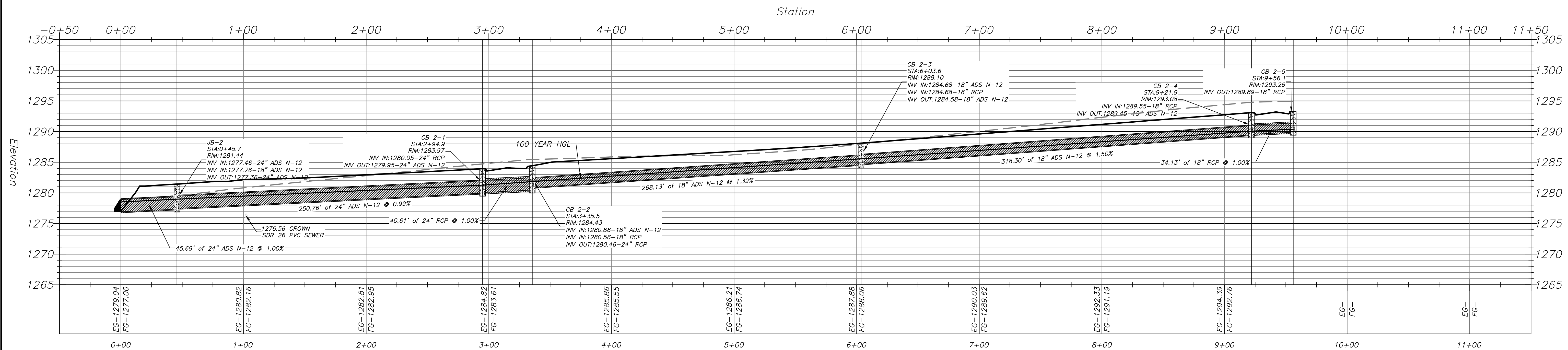
STORM SEWER 2-2 PROFILE



STORM SEWER 2-3 PROFILE



STORM SEWER 2 PROFILE



RICHARDSON ENGINEERING
Planning • Engineering • Development Consulting

210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225

PROFESSIONAL ENGINEER
Richardson
Engineering
No. 2519

STORM SEWER 2 PLAN & PROFILE
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

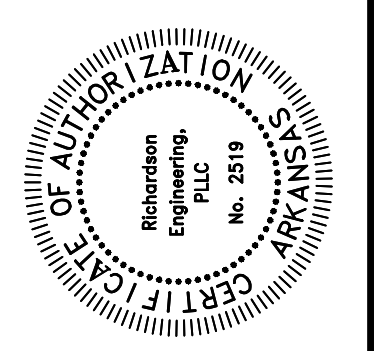
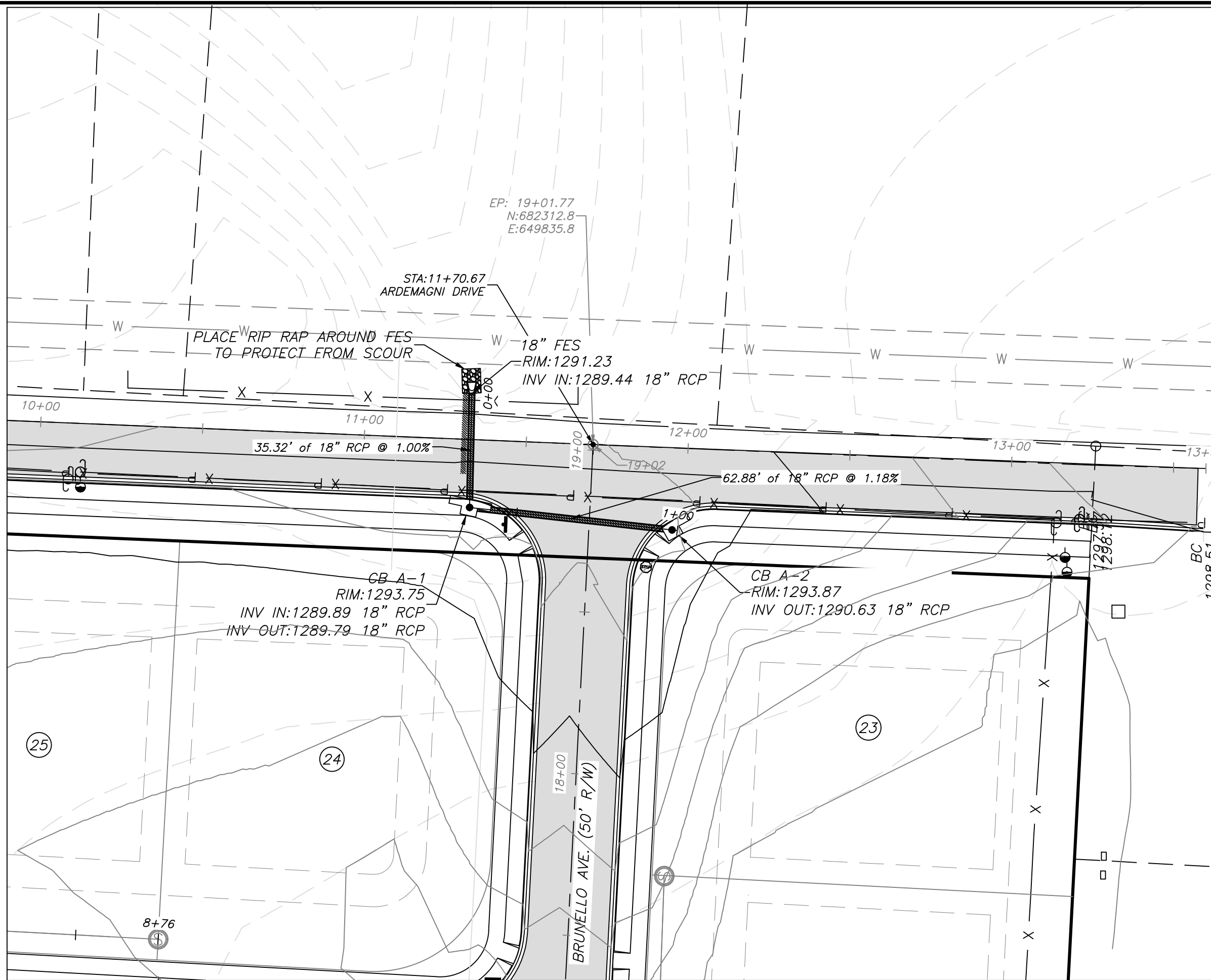
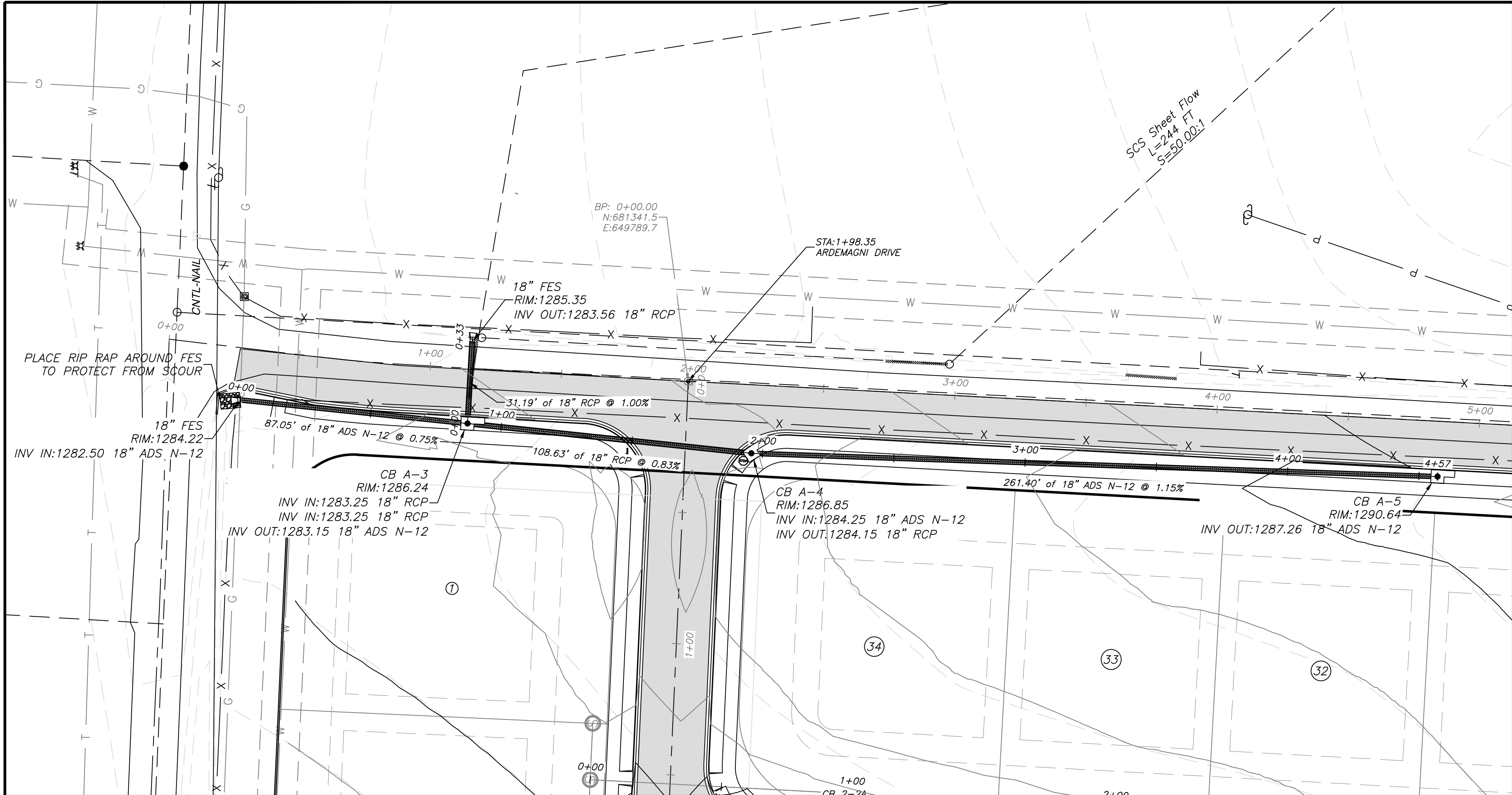
Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Date:
9/16/19

Revisions:
AS PER CITY COMMENTS 09/10/19

Scale:
1" = 40'

Sheet:
19 of 31



STORM SEWER A PLAN & PROFILE
NAPA SUBDIVISION PHASE 3
PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

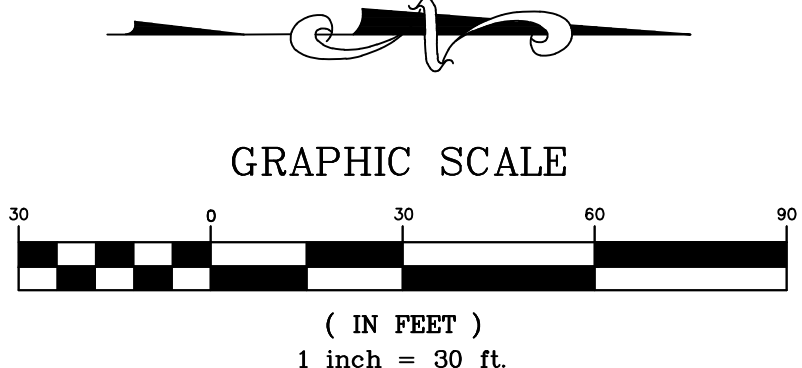
Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

No.	Date	Revision	Comments	Scale	Sheet
1	08/30/19		AS PER CITY COMMENTS 08/10/19	1" = 30'	20 of 31

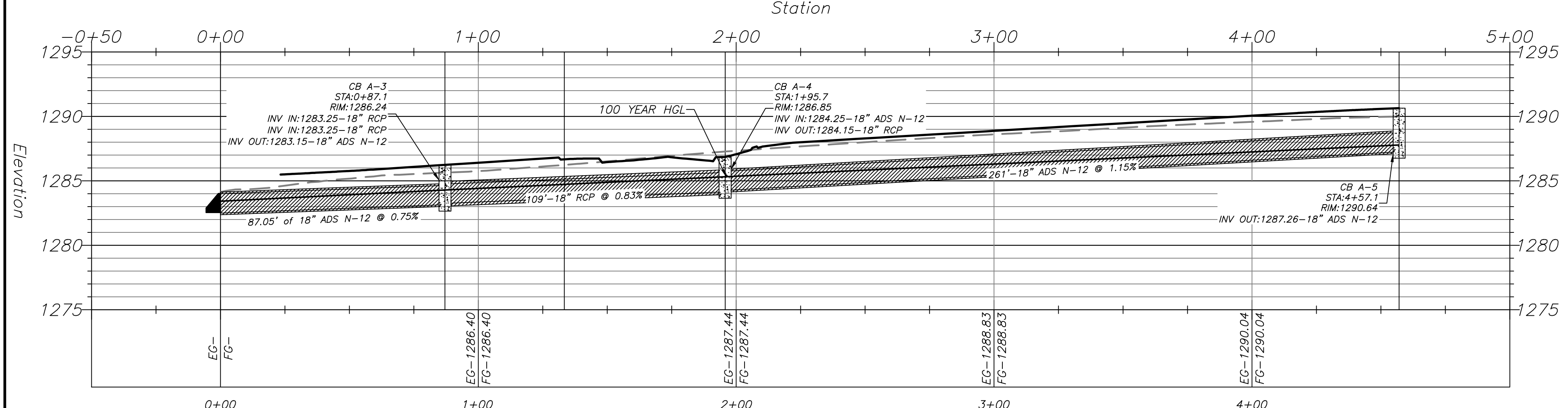
LEGEND

S	SANITARY SEWER
—	SEWER FORCEMAIN
W	WATER LINE
—	STORM DRAIN
---	DITCH OR SWALE
E	POWER LINE (OVERHEAD)
SW	PROPOSED WATER METER BOX
⊙	EXISTING MANHOLE
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⊙	CURB INLET
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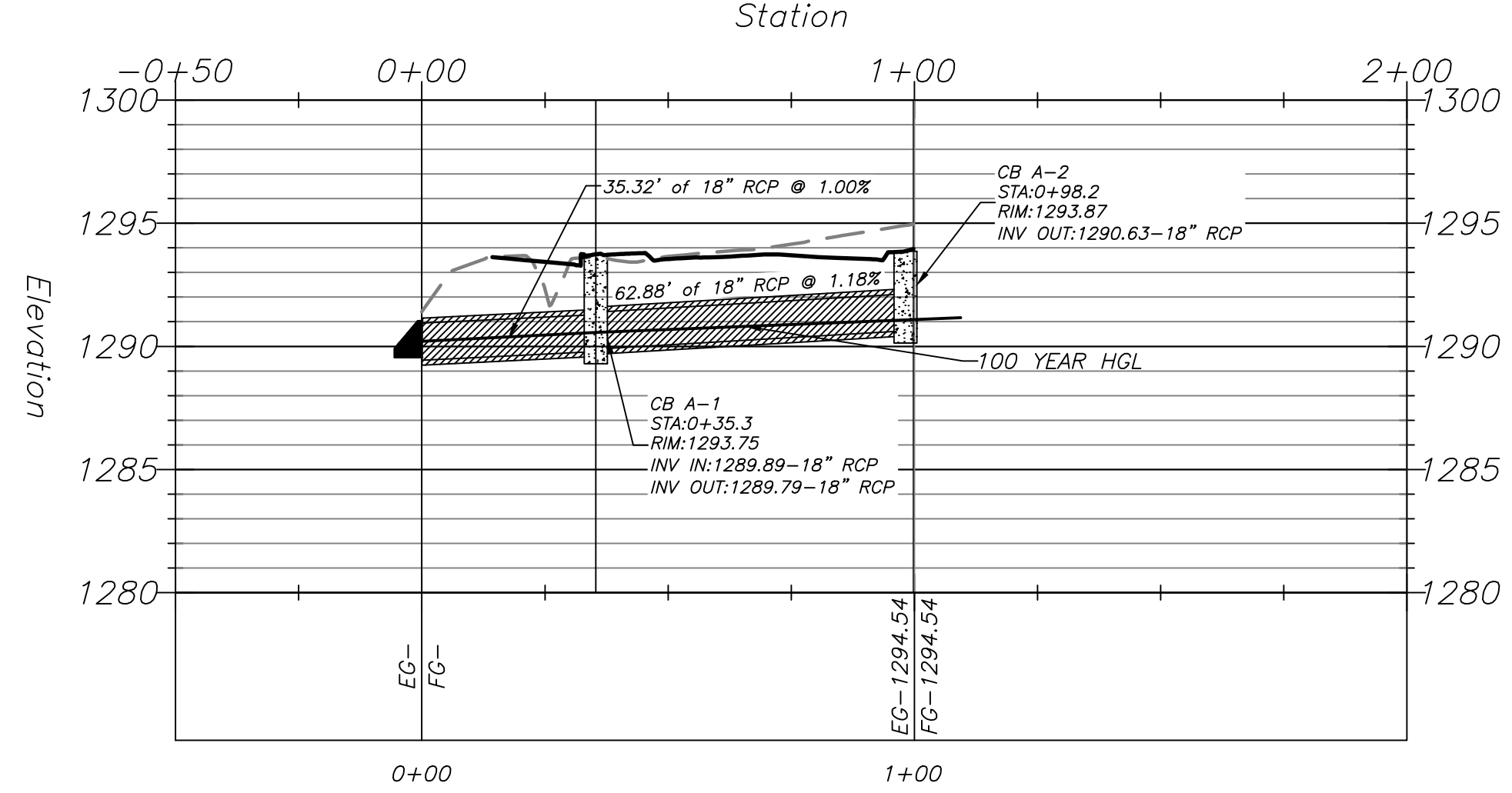
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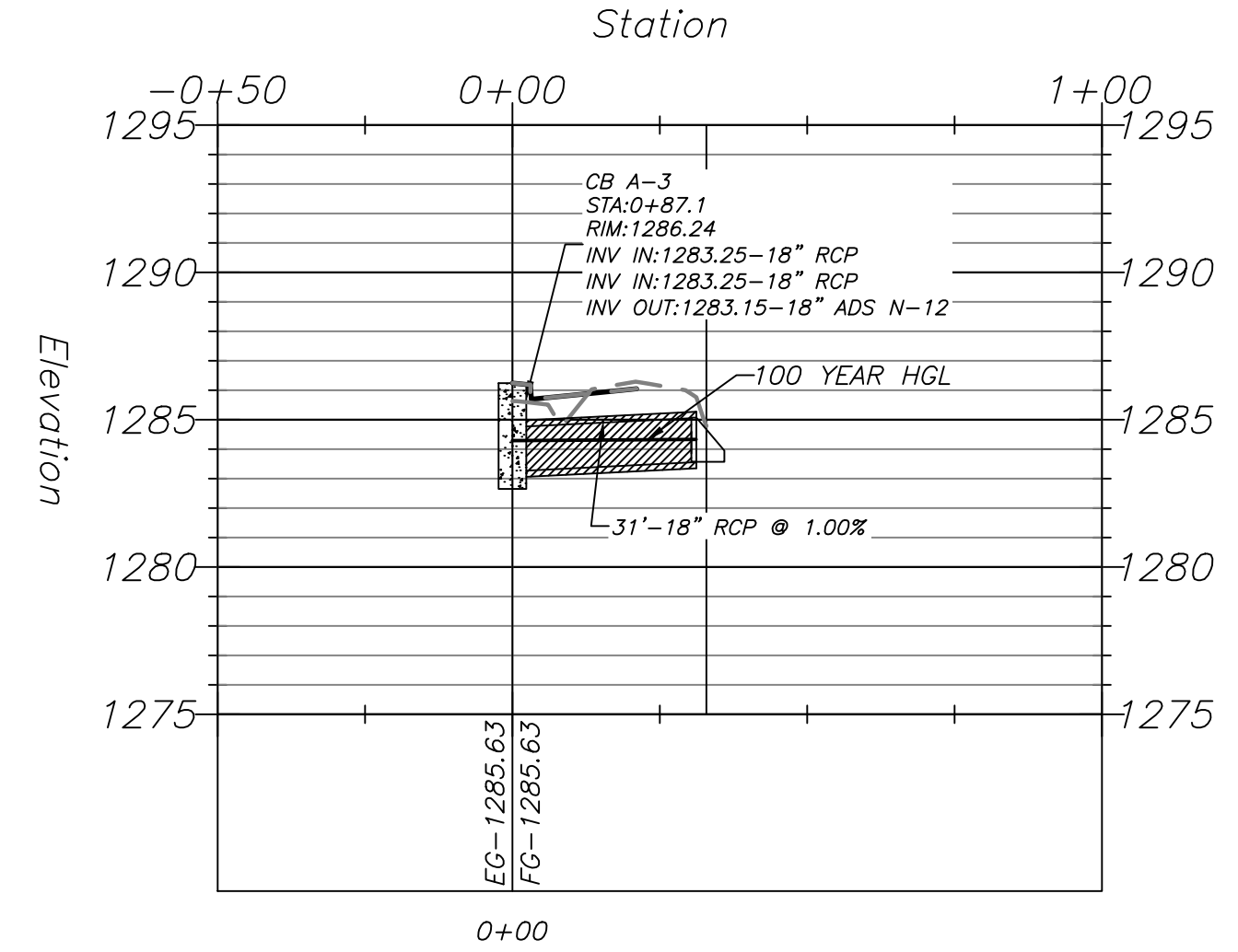
STORM SEWER A-2 PROFILE



STORM SEWER A-1 PROFILE



STORM SEWER A-3 PROFILE





- PROVIDE
BY THE
6" (150mm)

CAPE AREAS)
ED TO
AMETER PIPE
FLEXIBLE
FOUR FEET
L.

THIS DRAWING IS
NOT VALID FOR THIS
PROJECT UNLESS THE
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ERALLY PRIOR TO
REVISION 1.0. IF THE
REVISIONS EXCEEDS THE
REVISIONS ACCEPTABLE FOR T

**NATIVE
SOIL**

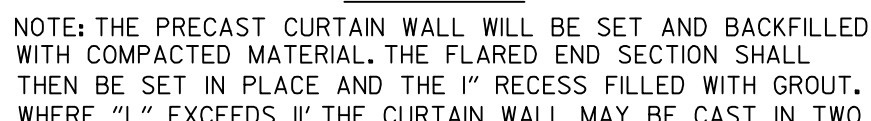
**TIE DOWN
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OTHERS**

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TO ADS. THE
ENGINEERING OR C
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SECTION A-A



- WHERE "E" EXCEEDS IF THE CURTAIN WALL MAY BE CAST IN TWO OR MORE SECTIONS, THE METHOD OF JOINING THE SECTIONS FOR INSTALLATION SHALL BE APPROVED BY THE ENGINEER. R

ALL REINFORCING STEEL #4 BARS @ 6" O.C.

[illegible]

- NOTE:
1. REFERS TO ASTM D2921 / CSM 918.111 AND 926.6 FOR MORE COMPLETE BOD. DESCRIPTIONS.
 2. CLASS 8 MATERIALS ALLOW FOR A BROADER RANGE OF FINES THAN PREVIOUS VERSIONS OF D2921 / 918.111, WHEN SPECIFYING CLASS 8 MATERIAL FOR INFILTRATION SYSTEMS, THE ENGINEERING SHALL INCLUDE A REQUIREMENT FOR AN ACCEPTABLE PERCENT OF FINES.
 3. ALL PARTICLES MUST BE FLAT AND NOT SPHERICAL.
 4. AGGREGATES LESS THAN 10% PASSING THE 30# SIEVE.
 5. CLASS 9 MATERIALS REQUIRE A GEOTECHNICAL CONSULTANT PRIOR TO USE, AND SHOULD ONLY BE USED AS BACKFILL UNDER THE GUIDANCE OF A QUALIFIED ENGINEER. UNLESS THE FINES RANGE IS MORE THAN 10% PASSING A 100 SIEVE BEHIND LINE BELTS AND SHOULD BE TREATED AS CLASS 8 SHOULD BE ALLOWED.
 6. CLASS 9 MATERIALS SHALL NOT BE PERMITTED AS SECOND AND BACKFILL MATERIAL.

CLASSES OF EMBEDMENT AND
AND BACKFILL MATERIALS

ENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS	DRAWING NUMBER: STD-109	ADVANCED DRAINAGE SYSTEMS
---	-------------------------	---------------------------



- ## APPENDIX C DRAIN INLET
- NOT TO SCALE
- NOTES:
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
 2. ALL REINFORCING BARS SHALL BE GRADE 60 AND SHALL HAVE A MINIMUM 1-1/2" COVER UNLESS OTHERWISE NOTED.
 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.
 - a. TOP 10" SHALL BE CAST-IN-PLACE.
 - b. CURS INLET BACK OPENING LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - c. CURS INLET IS PLACED AGAINST CONCRETE PAVEMENT; THE OUTTER DEPRESSION SHALL BE FORMED IN CONCRETE PAVEMENT.
 4. PIPES MAY ENTER BOX FROM ANY ANGLE OF ELEVATION AS DIRECTED BY THE ENGINEER. REINFORCING BARS SHALL BE 1" TO CLEAR PIPE BY 1/2".
 5. THE EXPANSION JOINT SHALL HAVE A THICKNESS OF 1-1/2" AND CONFORM TO ASHITO M213.
 6. REFER TO JOINT AND JOINT DETAILS FOR APPROPRIATE CURS CONFIGURATION AND GUTTER DIMENSIONS.
 7. REFER TO PLAN AND PROFILE SHEETS TO DETERMINE EXTENSIONS AND SIZE (IF ANY) ACCOMPANYING DROP INLETS.
 8. DRAINAGE AND DURING CONSTRUCTION, THE DRAINAGE SHALL BE MAINTAINED TO PREVENT ANY POSITIVE DRAINAGE AT ALL TIMES. THE METHODS USED FOR THIS WORK SHALL BE APPROVED BY THE ENGINEER.
 9. LIMIT DEFLECTION TO 60 DEGREES; IF GREATER, USE NEXT LARGER MANHOLE DRAINAGE SIZE.
 10. ALL INLETS SHALL BE WITH LID ON THE TOP OF THE INLET ON THE SIDE OF THE BOX. MAKE INSIDE DEPTH DIMENSIONS AS STATED ON DETAILS UNLESS OTHERWISE NOTED.
 11. CONCRETE FOR REINFORCED CONCRETE DRAIN INLETS SHALL BE CLASS 4, 3000 PSI, 5.5 BAG MIX WITH 4-7% AIR ENTRAINMENT.
 12. ALL REINFORCING TO BE #5 BAR GRID @ 10" O.C., EXC. WHERE OTHER ALLOWANCES MUST BE MADE FOR PIPES, MANHOLES, OR MANHOLE TEES.
 13. NEOPRENE-CREATED STEEL STEPS ARE TO BE INSTALLED IN ALL DROP INLETS AND JUNCTION BOXES WITH A DEPTH OF 4" OR GREATER. STEP SPACING TO BE 12".
 14. DRAINAGE BOX TO BE 0.25 MINIMUM SLOPE FROM INLET TO OUTLET.

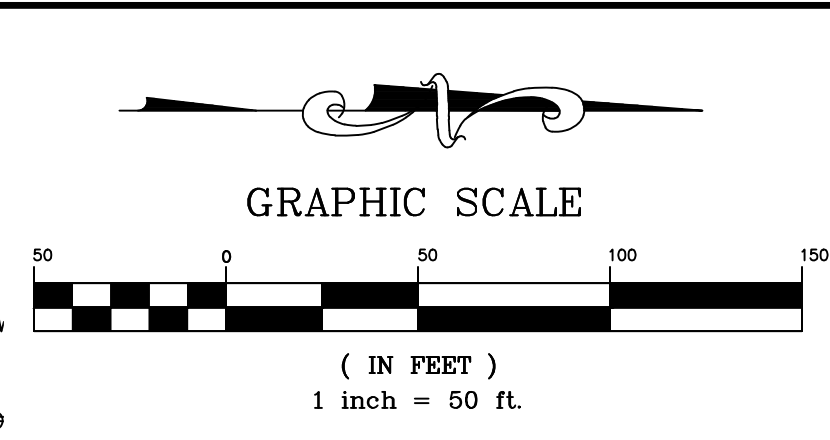
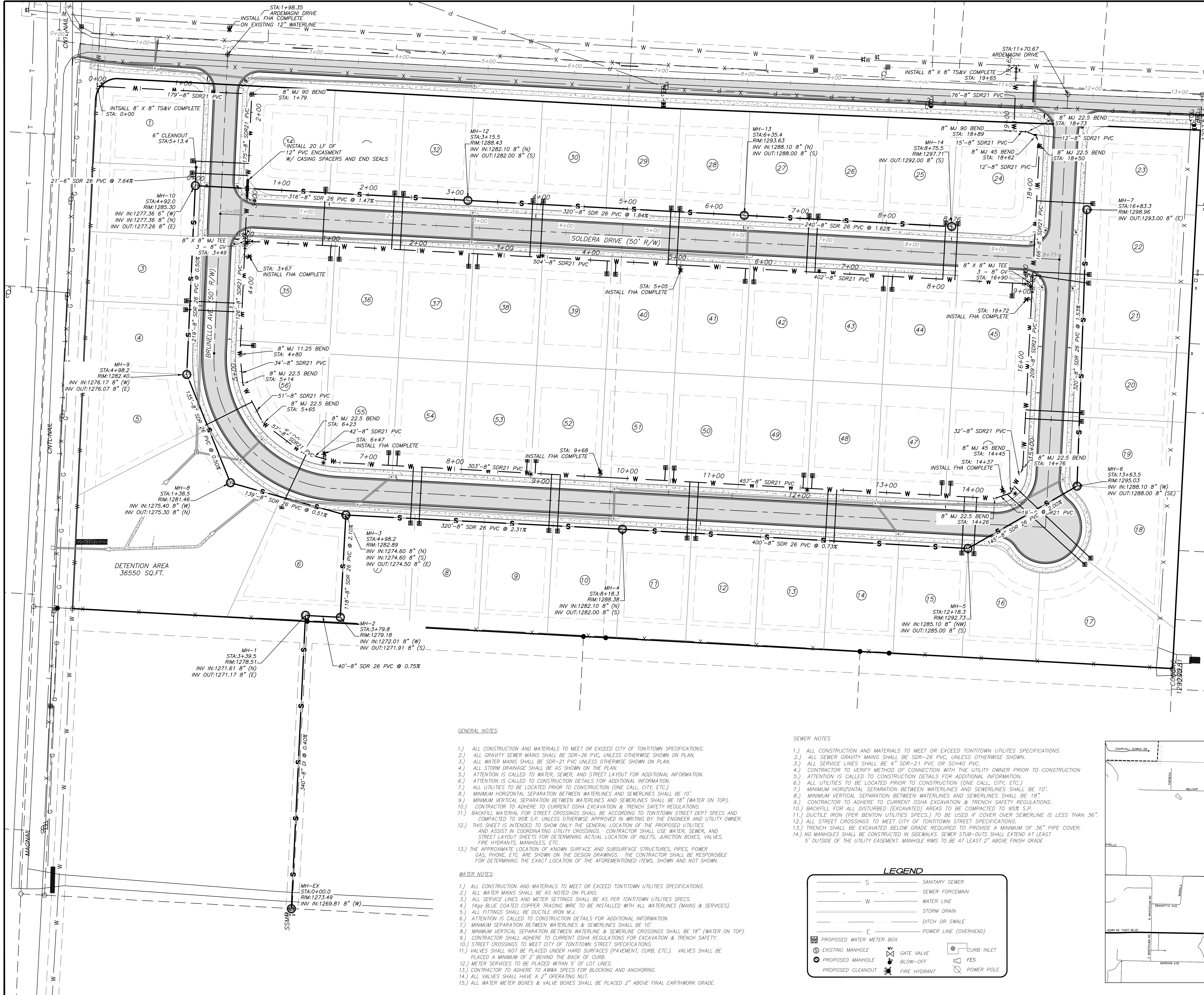


- | | |
|---|----------|
| 1) THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. | SIDEWALK |
| 2) THE NORMAL GUTTER SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. | |
| 3) THE MINIMUM THICKNESS FOR THE RAMP, WALK & LANDING SHALL BE 4". | |
| 4) DETECTABLE WARNING DEVICES SHALL BE PLACED AT THE LOCATIONS WHERE RAMP CROSS A CURB. | |

HANDICAP RAMP DETAILS



TABLET	PROJECT NO.
TEXTILE MARKING SERVICE	243610DAV1
REVENUE INC COMPOSITE	
PROJECT	
CAST-IN-DOE PATTERN MARKING SURFACE UNIT 1.670" IN LINE TRACED DOME PATTERN PART SIZE: 24" x 36" PLANS AND DETAILS	
DRAWING NO.	DATE
ADA-CIP2436 1	06-11-12
 ADA SOLUTIONS, INC. OFFICIAL MARKING SERVICES FOR FOOTBALL CHANGES WWW.ADATILE.COM PHONE: (800)372-0519 EMAIL: INFO@ADATILE.COM	



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210 W. SEVIER STREET, BENTON, AR 72015 (501)315-7225

UTILITY PLAN
NAPA SUBDIVISION PHASE 3

PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Prepared For:

AS PER CITY COMMENTS 09/10/19

Revision: 08/30/19
REV 09/16/19

Date: 9/26/19

Scale: 1" = 50'

Sheet: 22 of 31

GENERAL NOTES:

- 1.) ALL CONSTRUCTION AND MATERIALS TO MEET OR EXCEED TONTOWN UTILITIES SPECIFICATIONS.
- 2.) ALL GRAVITY SEWER MAINS SHALL BE SDR-26 PVC, UNLESS OTHERWISE SHOWN ON PLAN.
- 3.) ALL WATER MAINS SHALL BE SDR-21 PVC UNLESS OTHERWISE SHOWN ON PLAN.
- 4.) ALL STORM DRAINAGE SHALL BE AS SHOWN ON THE PLAN.
- 5.) ATTENTION IS CALLED TO WATER, SEWER, AND STREET LAYOUT FOR ADDITIONAL INFORMATION.
- 6.) ATTENTION IS CALLED TO CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
- 7.) ALL UTILITIES TO BE LOCATED PRIOR TO CONSTRUCTION (ONE CALL, CITY, ETC.)
- 8.) MINIMUM HORIZONTAL SEPARATION BETWEEN WATERLINES AND SEWERLINES SHALL BE 10'.
- 9.) MINIMUM VERTICAL SEPARATION BETWEEN WATERLINES AND SEWERLINES SHALL BE 18" (WATER ON TOP).
- 10.) CONTRACTOR TO ADHERE TO CURRENT OSHA EXCAVATION & TRENCH SAFETY REGULATIONS.
- 11.) BACKFILL MATERIAL FOR STREET CROSSINGS SHALL BE ACCORDING TO TONTOWN STREET DEPT SPECS AND COMPACTED TO 95% S.P. UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND UTILITY OWNER.
- 12.) THIS SHEET IS INTENDED TO SHOW ONLY THE GENERAL LOCATION OF THE PROPOSED UTILITIES AND ASSIST IN COORDINATING UTILITY CROSSINGS. CONTRACTOR SHALL USE WATER, SEWER, AND STREET LAYOUT SHEETS FOR DETERMINING ACTUAL LOCATION OF INLETS, JUNCTION BOXES, VALVES, FIRE HYDRANTS, MANHOLES, ETC..
- 13.) THE APPROXIMATE LOCATION OF KNOWN SURFACE AND SUBSURFACE STRUCTURES, PIPES, POWER GAS, PHONE, ETC. ARE SHOWN ON THE DESIGN DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE AFOREMENTIONED ITEMS, SHOWN AND NOT SHOWN.

WATER NOTES:

- 1.) ALL CONSTRUCTION AND MATERIALS TO MEET OR EXCEED TONTOWN UTILITIES SPECIFICATIONS.
- 2.) ALL WATER MAINS SHALL BE AS NOTED ON PLANS.
- 3.) ALL SERVICE LINES AND METER SETTINGS SHALL BE AS PER TONTOWN UTILITIES SPECS.
- 4.) 14ga BLUE COATED COPPER TRACING WIRE TO BE INSTALLED WITH ALL WATERLINES (MAINS & SERVICES).
- 5.) ALL FITTINGS SHALL BE DUCTILE IRON M.J.L.
- 6.) ATTENTION IS CALLED TO CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
- 7.) MINIMUM SEPARATION BETWEEN WATERLINES & SEWERLINES SHALL BE 10'.
- 8.) MINIMUM VERTICAL SEPARATION BETWEEN WATERLINE & SEWERLINE CROSSINGS SHALL BE 18" (WATER ON TOP).
- 9.) CONTRACTOR SHALL ADHERE TO CURRENT OSHA REGULATIONS FOR EXCAVATION & TRENCH SAFETY.
- 10.) STREET CROSSINGS TO MEET CITY OF TONTOWN STREET SPECIFICATIONS.
- 11.) VALVES SHALL NOT BE PLACED UNDER HARD SURFACES (PAVEMENT, CURB, ETC.). VALVES SHALL BE PLACED A MINIMUM OF 2' BEHIND THE BACK OF CURB.
- 12.) METER SERVICES TO BE PLACED WITHIN 5' OF LOT LINES.
- 13.) CONTRACTOR TO ADHERE TO AWWA SPECS FOR BLOCKING AND ANCHORING.
- 14.) ALL VALVES SHALL HAVE A 2" OPERATING NUT.
- 15.) ALL WATER METER BOXES & VALVE BOXES SHALL BE PLACED 2" ABOVE FINAL EARTHWORK GRADE.

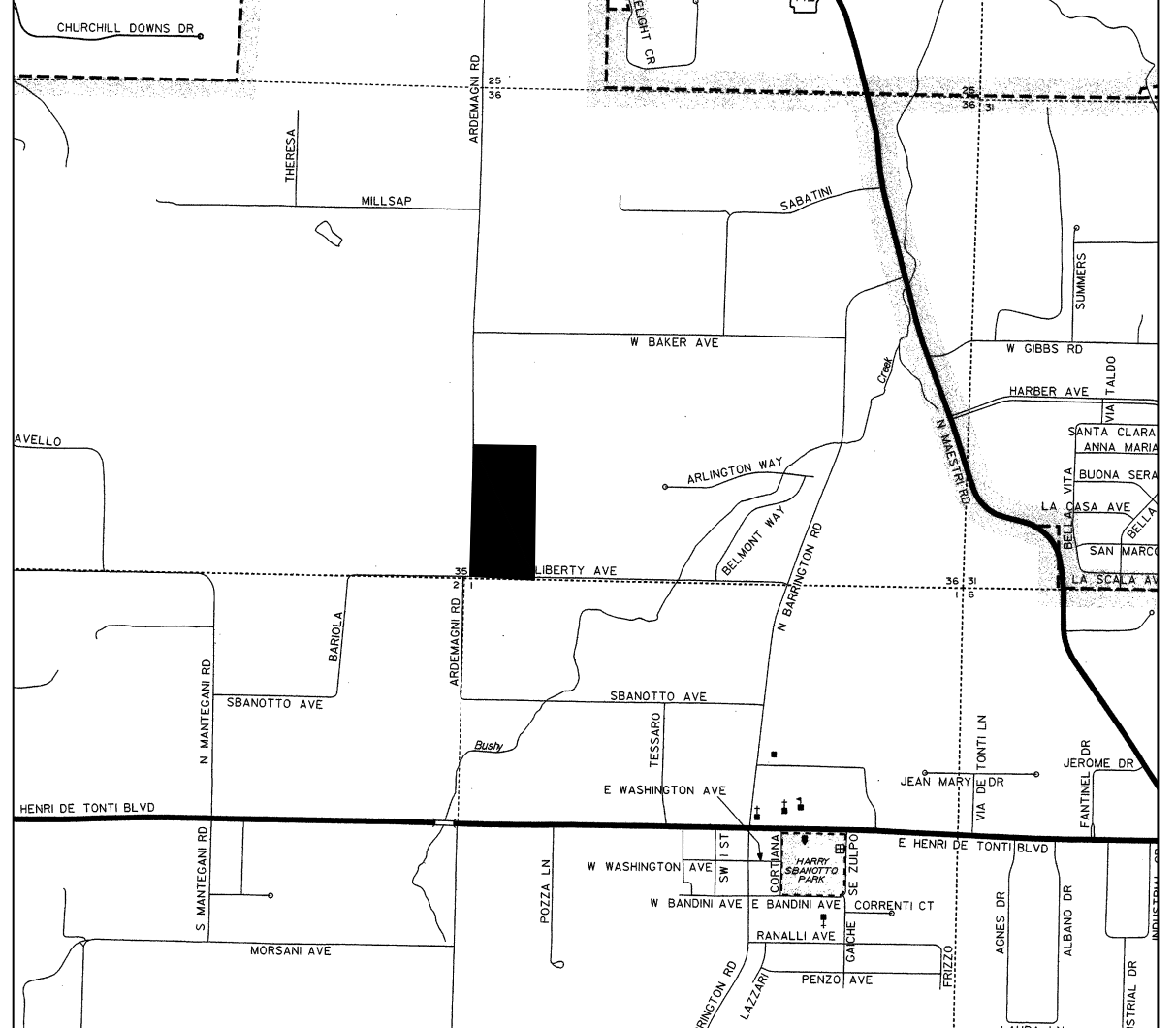
SEWER NOTES

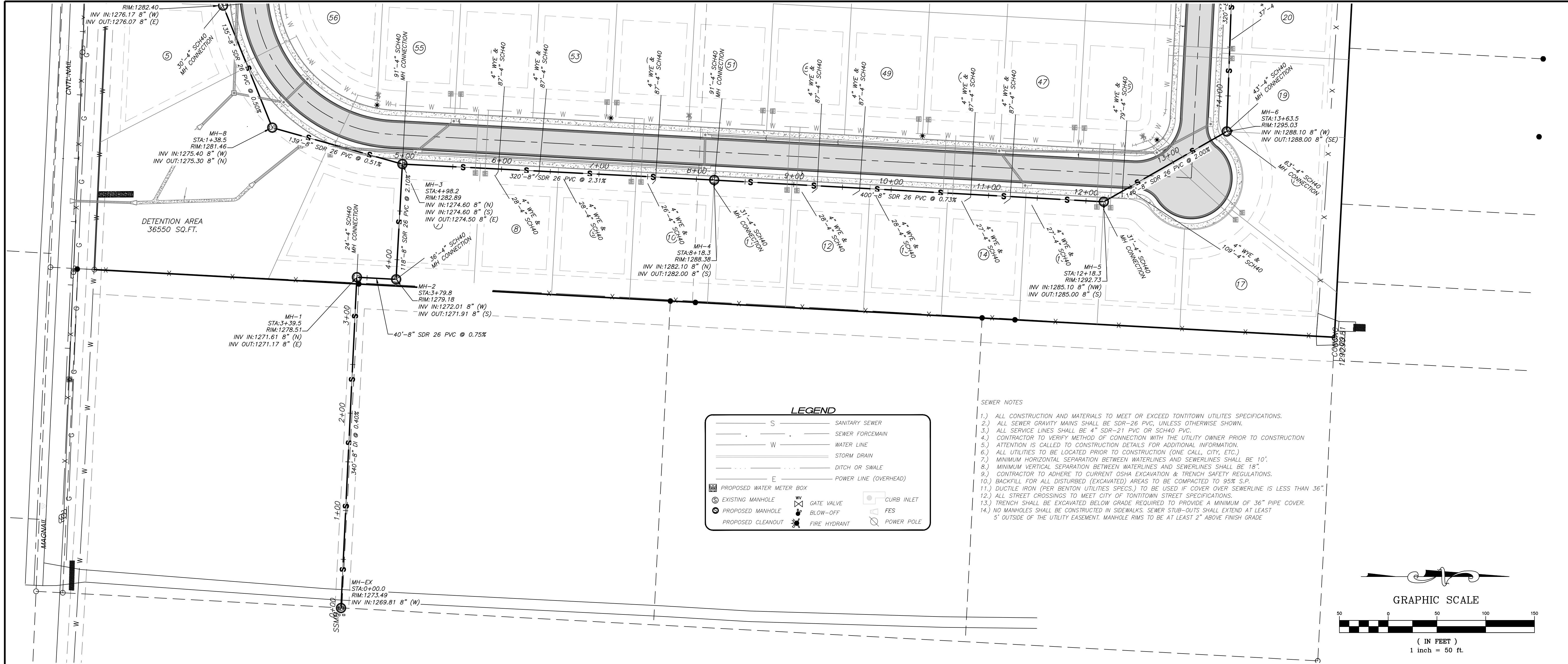
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- 11.) DUCTILE IRON (PER BENTON UTILITIES SPECS.) TO BE USED IF COVER OVER SEWERLINE IS LESS THAN 36".
- 12.) ALL STREET CROSSINGS TO MEET CITY OF TONTOWN STREET SPECIFICATIONS.
- 13.) TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM OF 36" PIPE COVER.
- 14.) NO MANHOLES SHALL BE CONSTRUCTED IN SIDEWALKS. SEWER STUB-OUTS SHALL EXTEND AT LEAST 5' OUTSIDE OF THE UTILITY EASEMENT. MANHOLE RIMS TO BE AT LEAST 2" ABOVE FINISH GRADE.

LEGEND

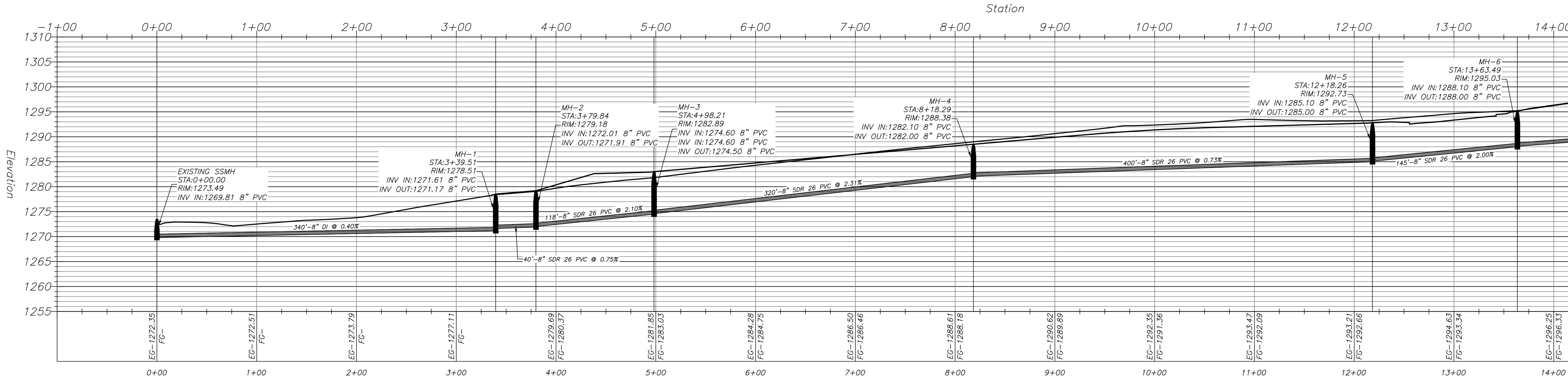
— S —	SANITARY SEWER	— W —	WATER LINE
— F —	SEWER FORCEMAIN	— SD —	STORM DRAIN
— E —	POWER LINE (OVERHEAD)	— D —	DITCH OR SWALE
⊙	PROPOSED WATER METER BOX	⊙	PROPOSED MANHOLE
⊙	EXISTING MANHOLE	⊙	PROPOSED CLEANOUT
⊙	GATE VALVE	⊙	BLOW-OFF
⊙	FIRE HYDRANT	⊙	CURB INLET
⊙	FES	⊙	POWER POLE

VICINITY MAP
1" = 2000'





SEWER MAIN 1 PROFILE



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SEWER MAIN 1 PLAN & PROFILE

NAPA SUBDIVISION PHASE 3

PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Prepared For:

AS PER CITY COMMENTS 09/10/19

Scale:

1" = 50'

Sheet:

23 of 31

DATE: 08/30/19
REV: 09/16/19

NO. 1

REVISIONS

DATE: 09/10/19

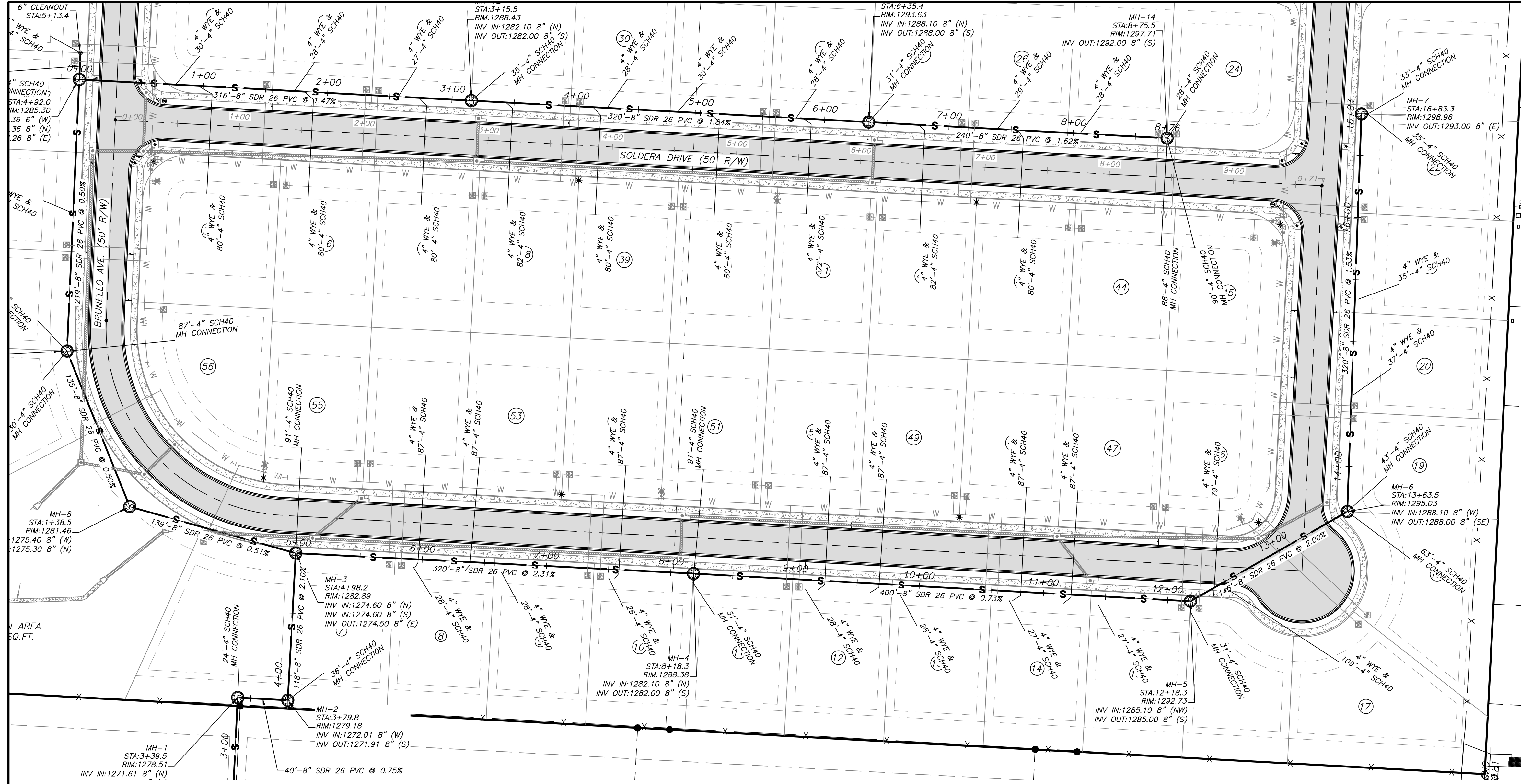
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AS PER CITY COMMENTS 09/10/19

DATE: 09/10/19

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AS PER CITY COMMENTS 09/10/19



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LEGEND

S	SANITARY SEWER
W	SEWER FORCEMAIN
W	WATER LINE
---	STORM DRAIN
- - -	DITCH OR SWALE
E	POWER LINE (OVERHEAD)

PROPOSED WATER METER BOX

EXISTING MANHOLE

PROPOSED MANHOLE

PROPOSED CLEANOUT

GATE VALVE

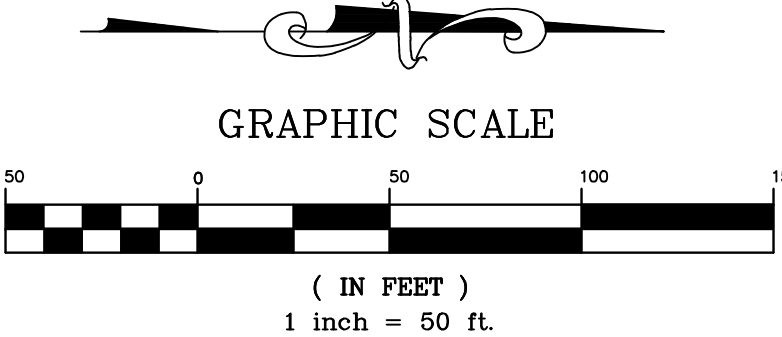
BLOW-OFF

FIRE HYDRANT

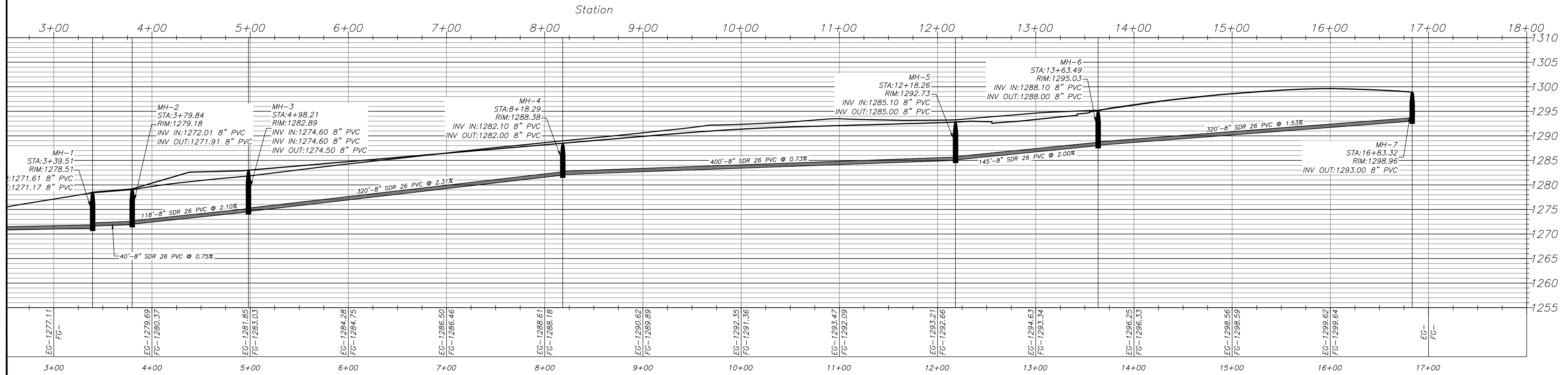
CURB INLET

FES

POWER POLE



SEWER MAIN 1 PROFILE



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SEWER MAIN 1 PLAN & PROFILE
NAPA SUBDIVISION PHASE 3

PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Prepared For:

Date: 9/26/19

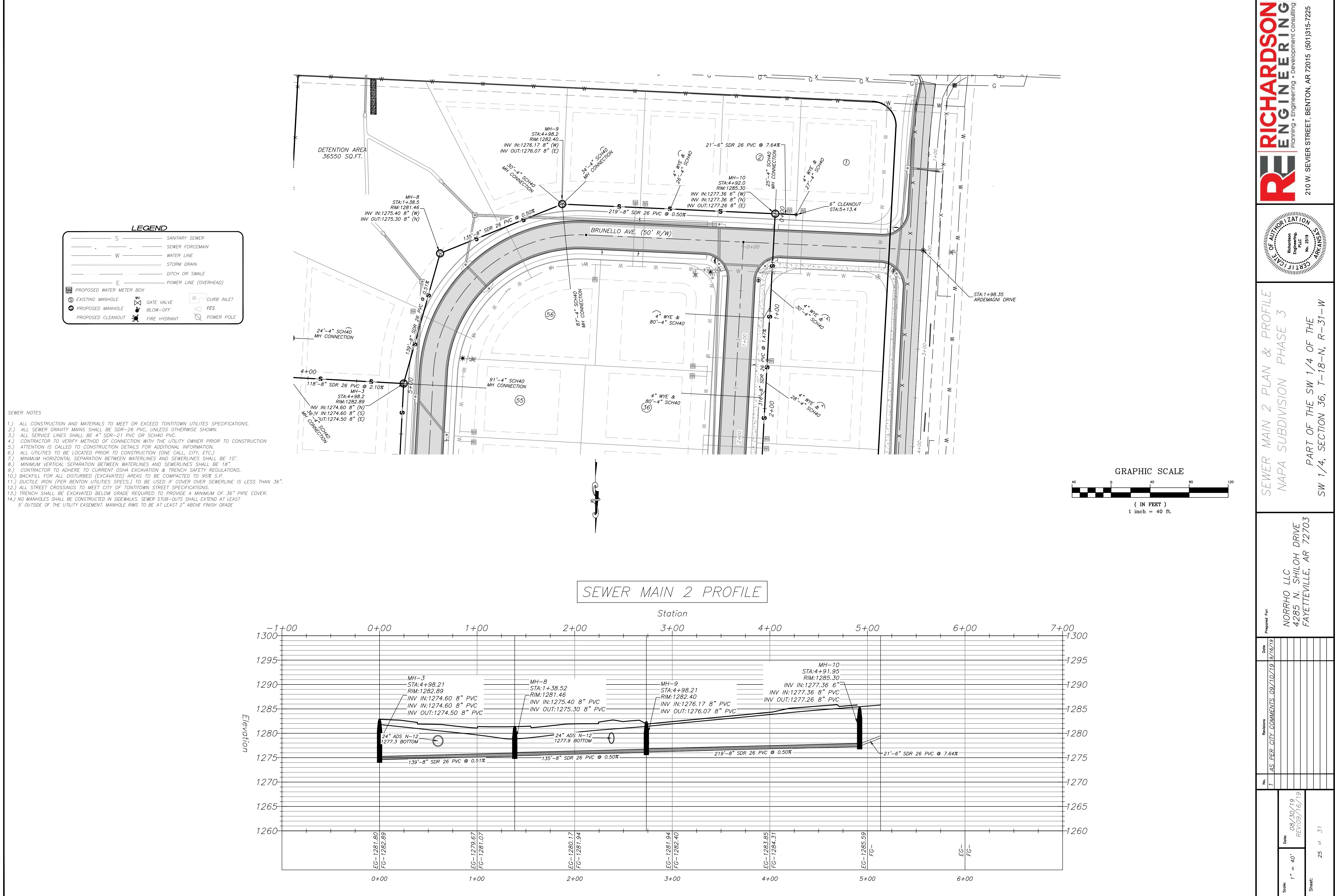
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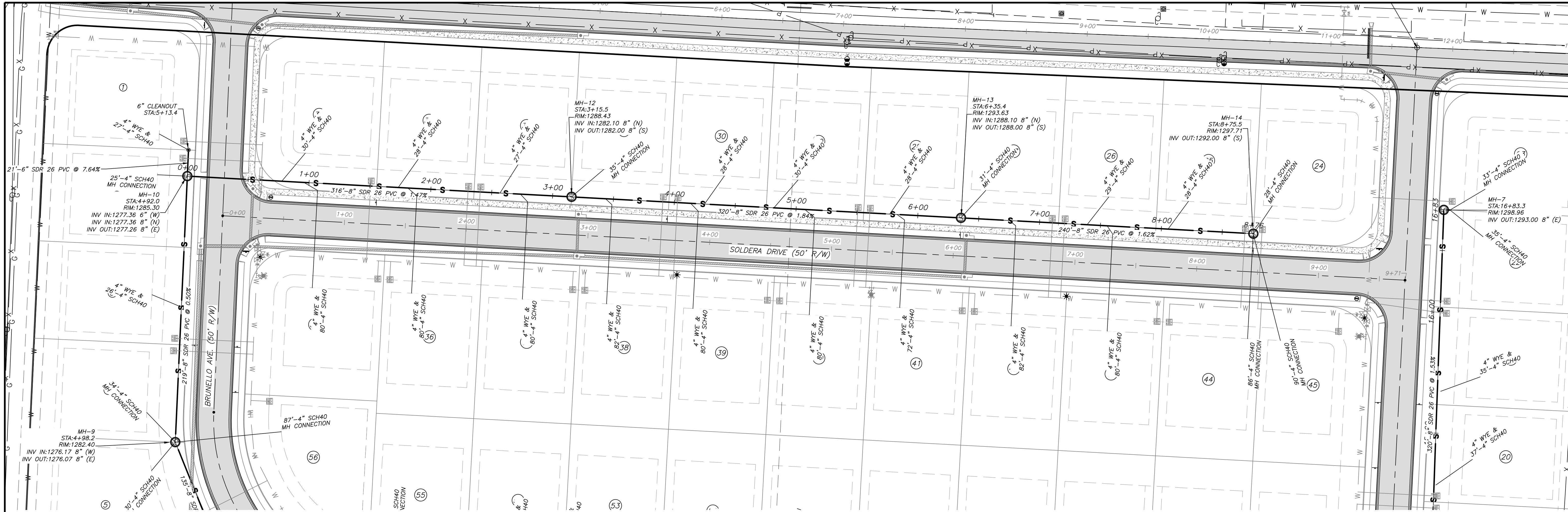
AS PER CITY COMMENTS

Scale: 1" = 50'

Date: 08/30/19
REV: 09/16/19

Sheet: 24 of 31

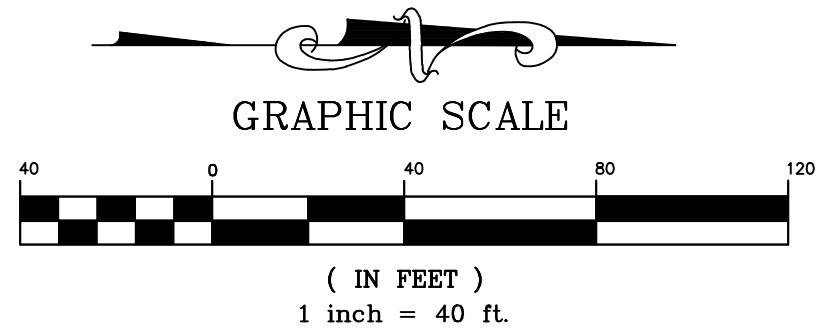




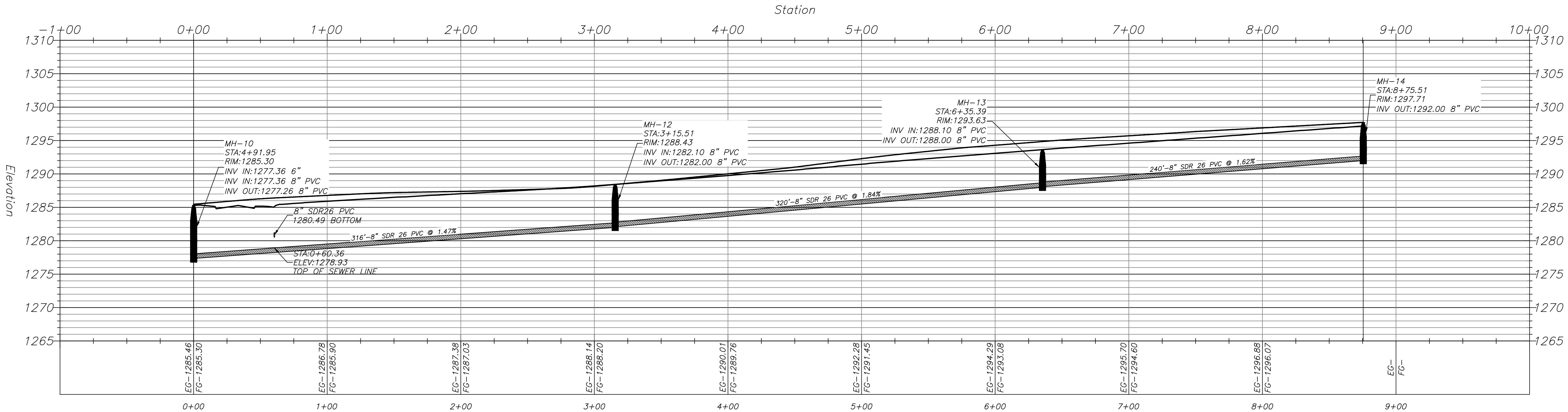
LEGEND

S	SANITARY SEWER
W	SEWER FORCEMAIN
W	WATER LINE
---	STORM DRAIN
---	DITCH OR SWALE
E	POWER LINE (OVERHEAD)
WM	PROPOSED WATER METER BOX
⊙	EXISTING MANHOLE
⊙	PROPOSED MANHOLE
⊙	PROPOSED CLEANOUT
⊙	GATE VALVE
⊙	BLOW-OFF
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SEWER MAIN 3 PROFILE



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SEWER MAIN 3 PLAN & PROFILE
NAPA SUBDIVISION PHASE 3

PART OF THE SW 1/4 OF THE
SW 1/4, SECTION 36, T-18-N, R-31-W

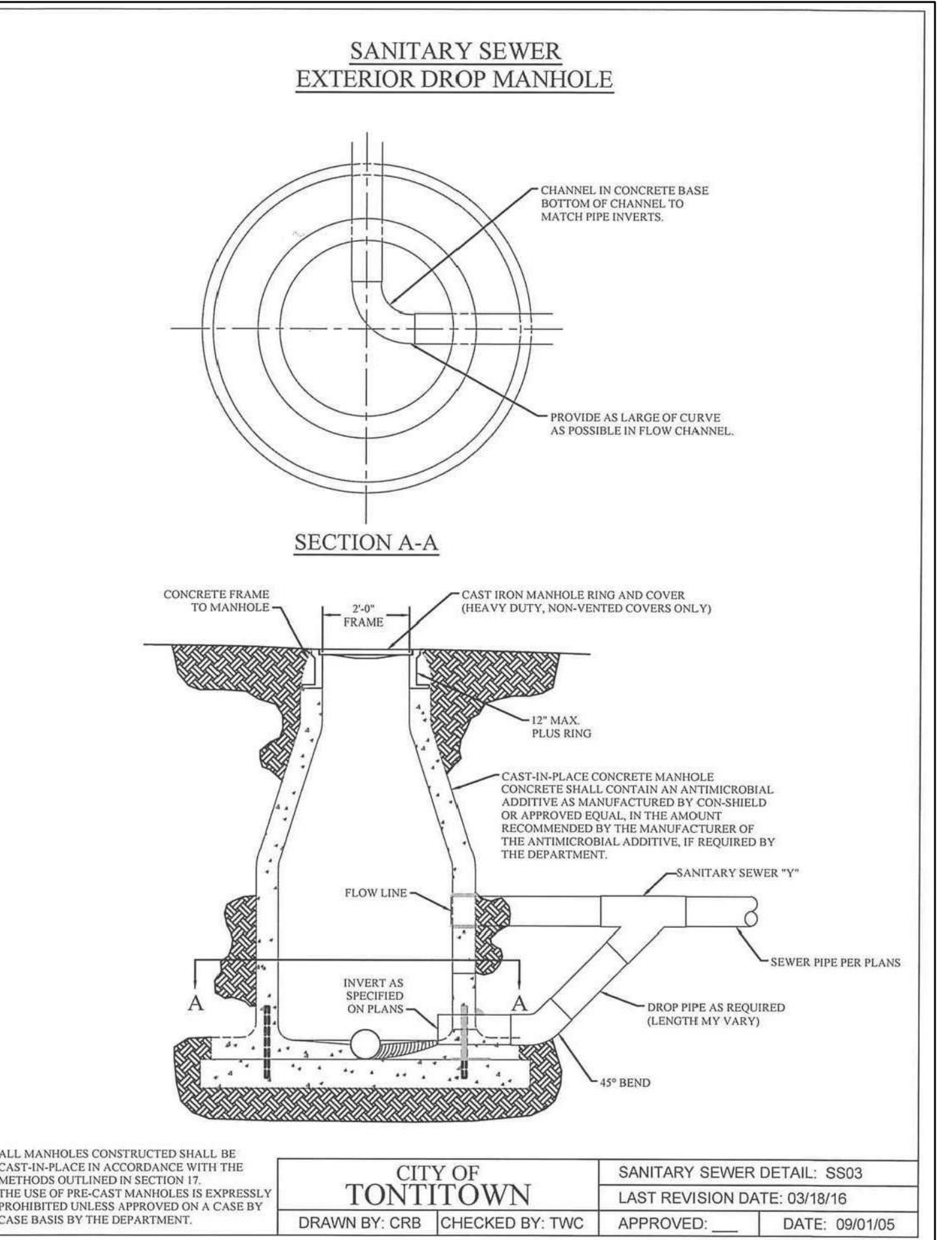
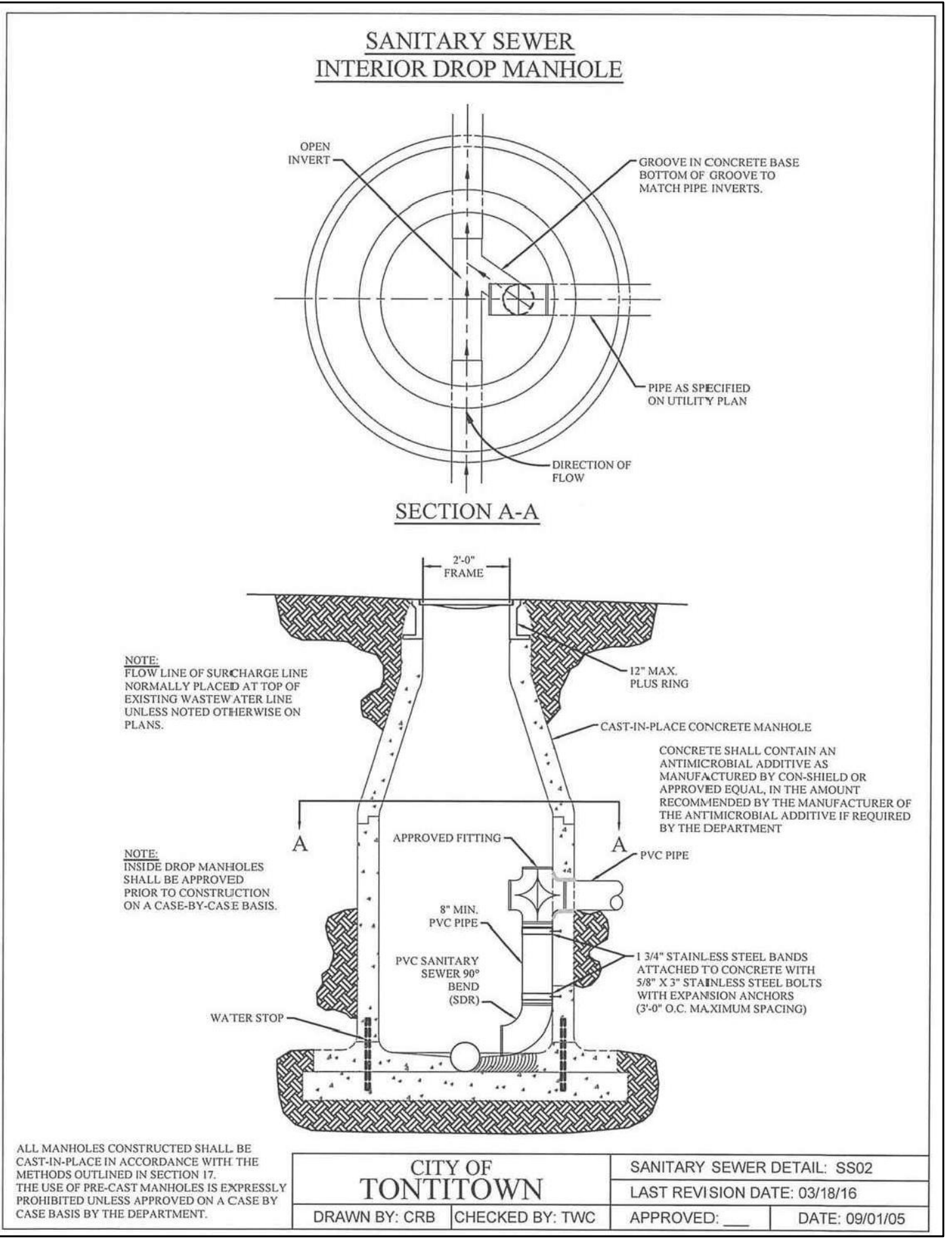
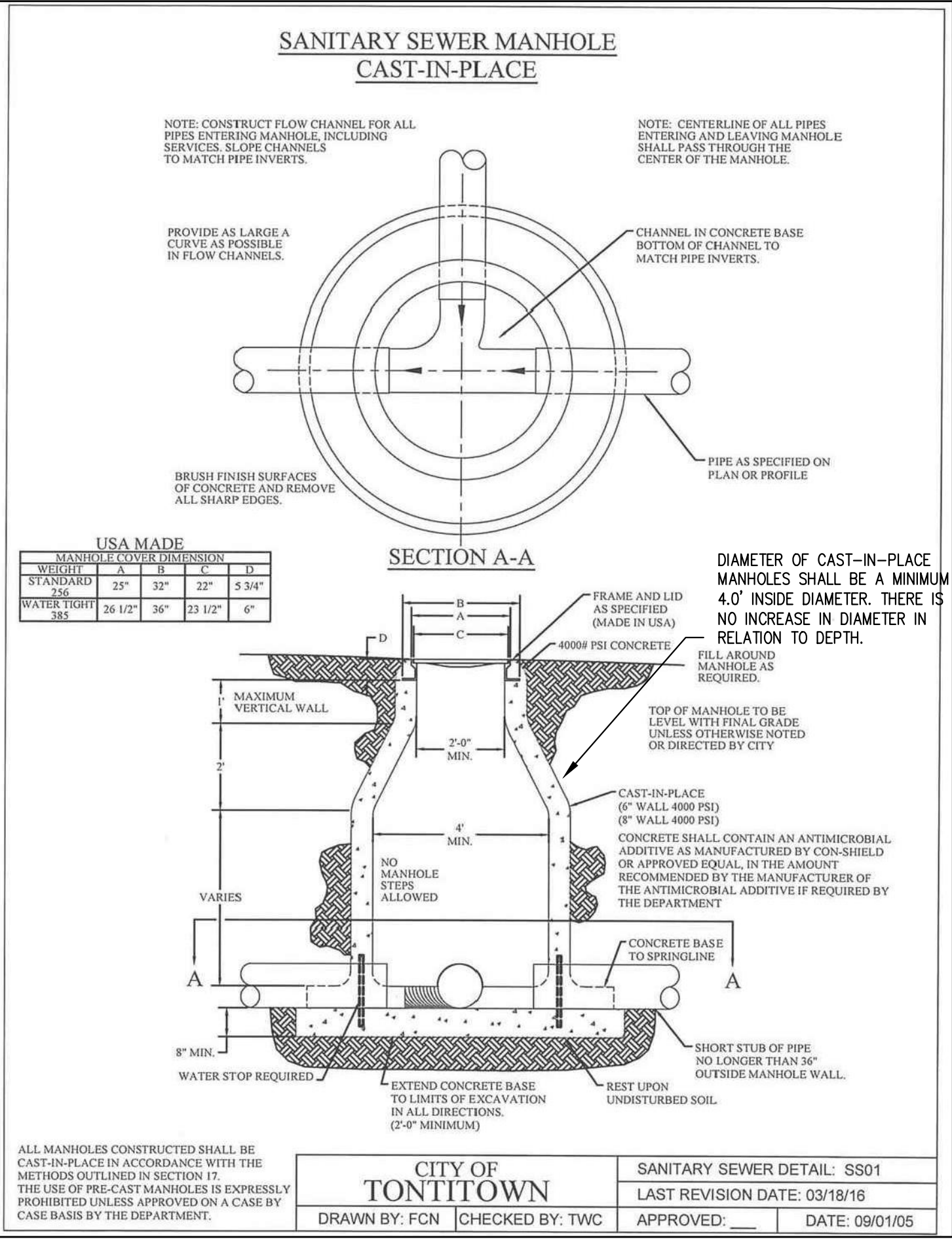
Prepared For:
NORRHO LLC
4285 N. SHILOH DRIVE
FAYETTEVILLE, AR 72703

Date:
9/16/19

Revisions:
08/10/19
08/30/19
REV 09/16/19

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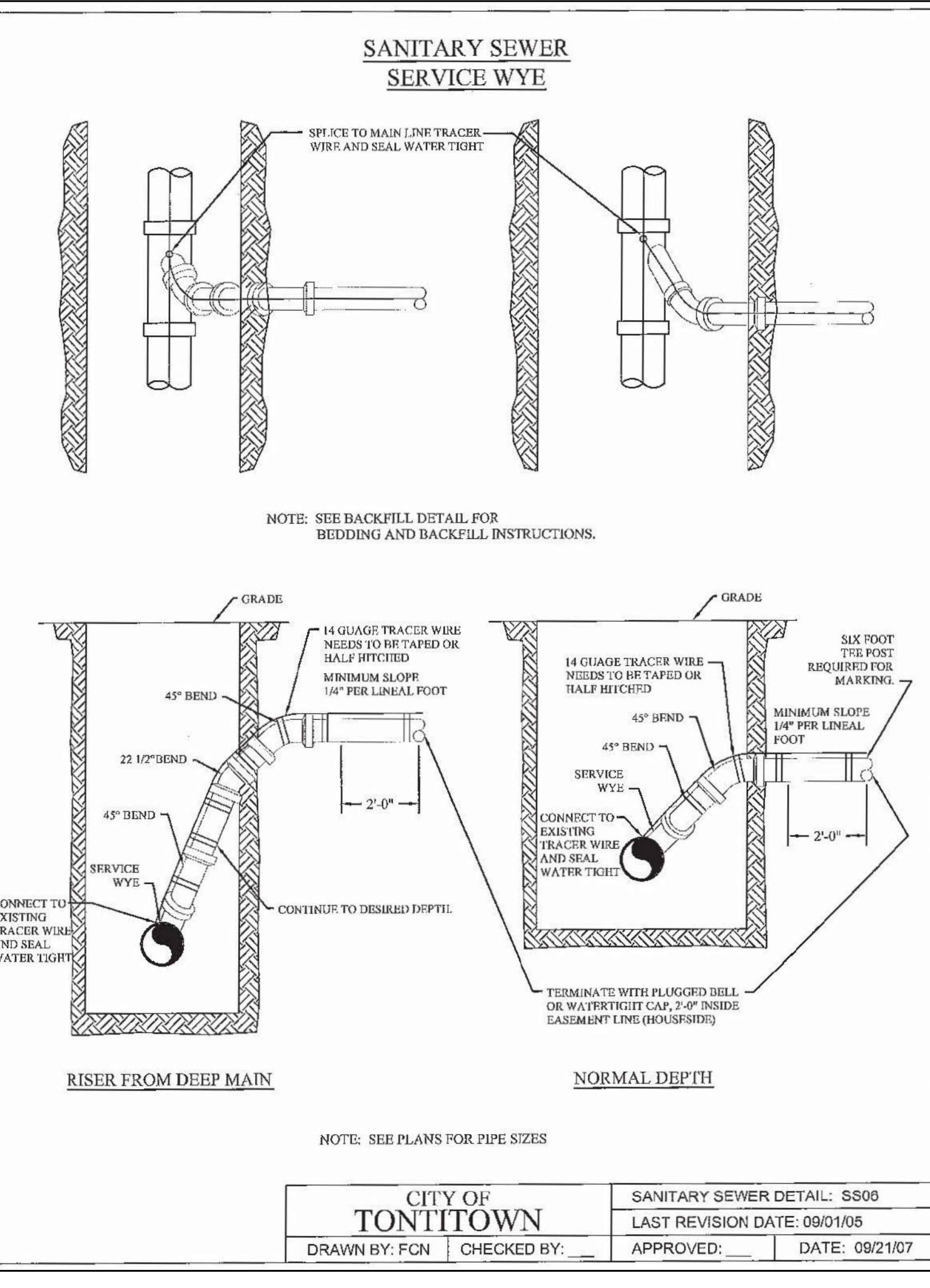
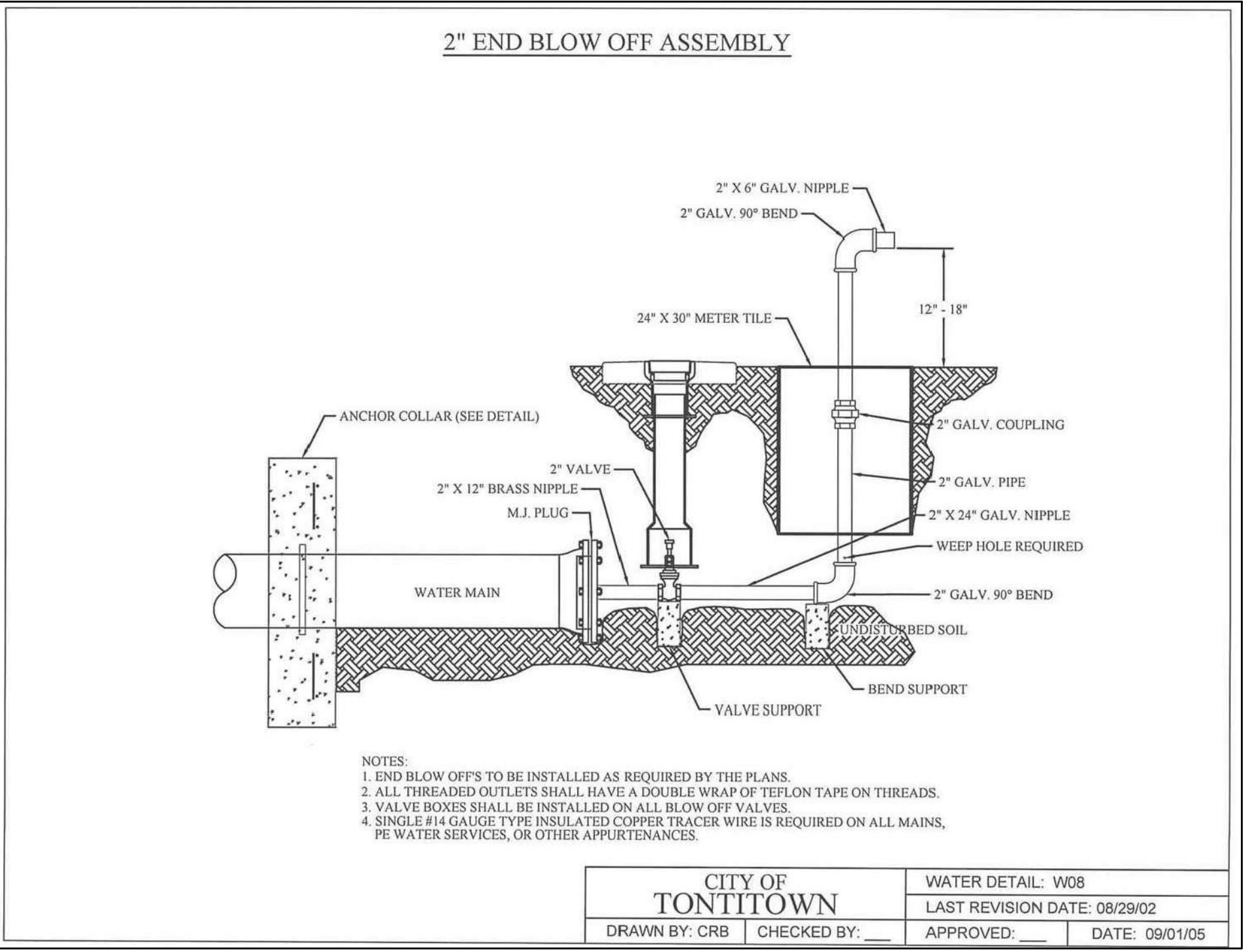
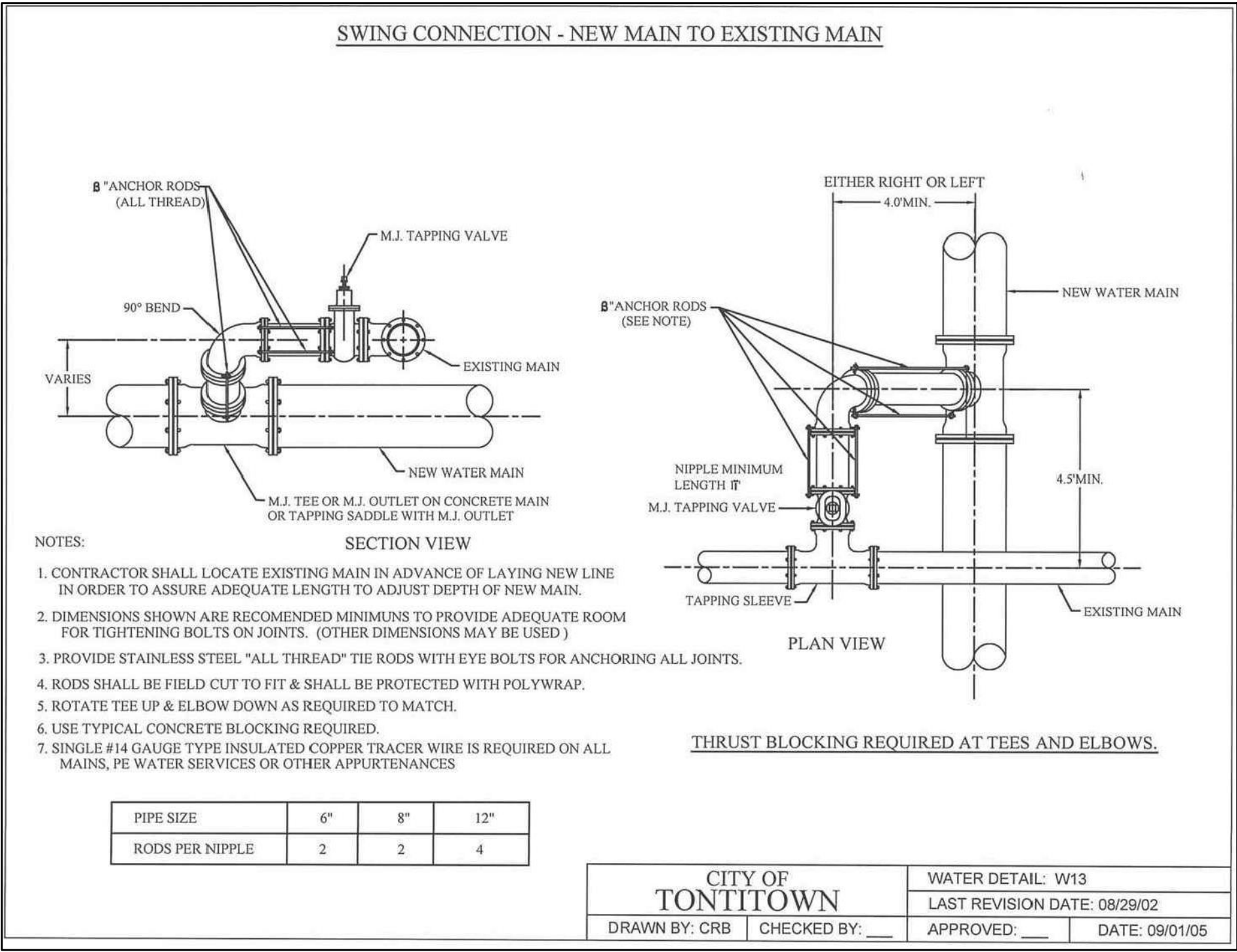
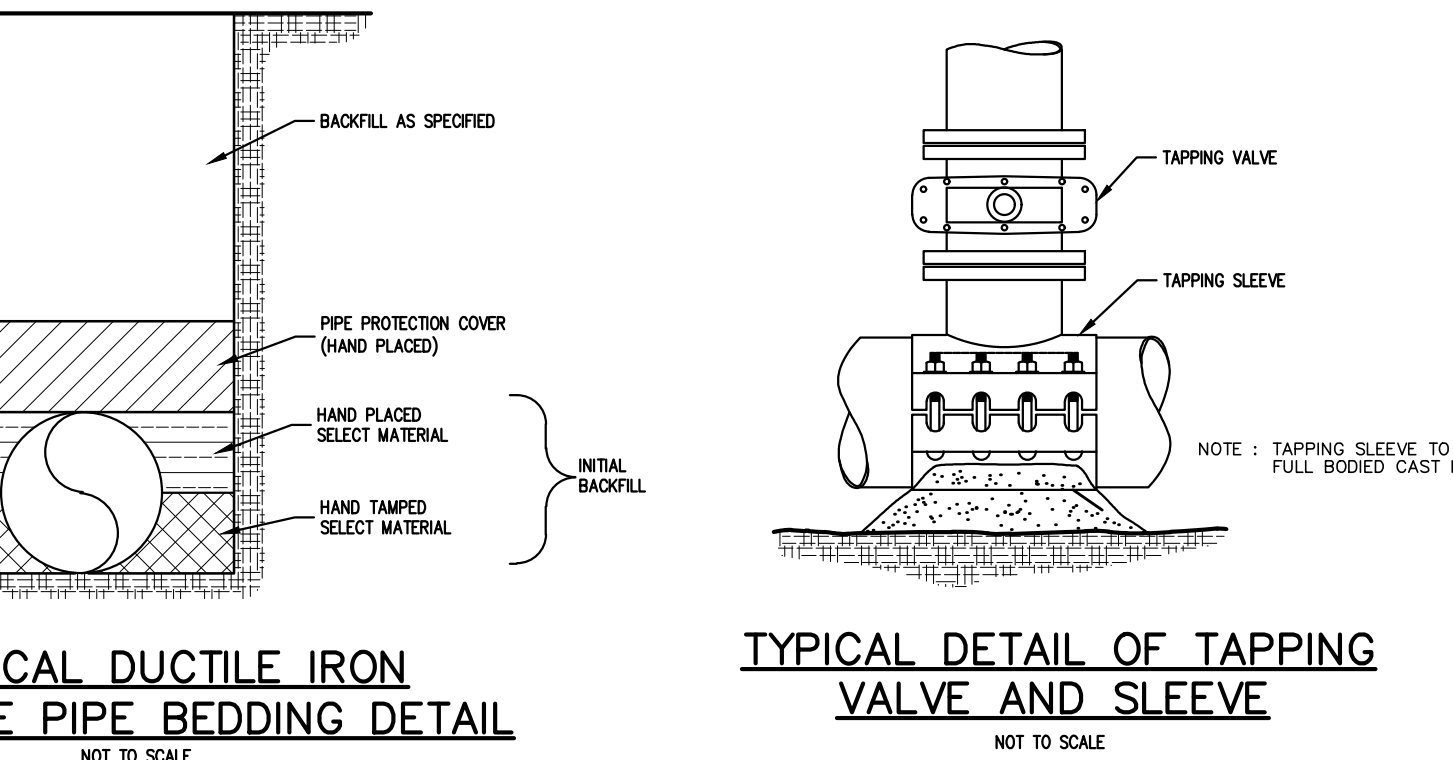
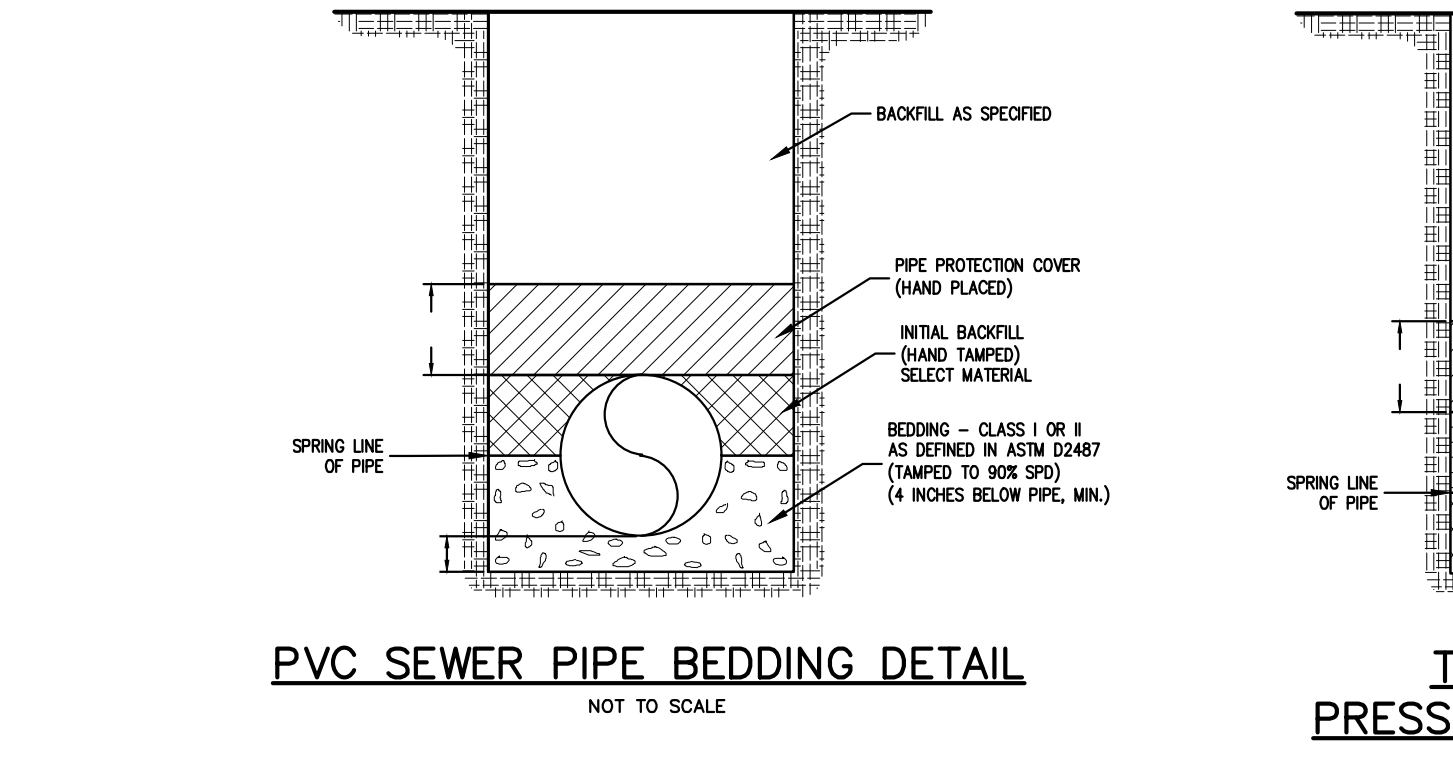
REACTION BACKING TABLE

SIZE	REQUIRED SQ. FT. OF UNDISTURBED EARTH WALL FOR REACTION BACKING					
	TYPE OF FITTINGS					
	TEE	90°	45°	22 1/2°	11 1/4°	PLUG
2"	1	1	1	1	1	1
3"	1	1	1	1	1	1
4"	1	2	1	1	1	2
6"	3	3	2	1	1	3
8"	4	6	3	2	1	4
10"	6	8	5	3	1	6
12"	8	12	6	3	2	8
14"	11	16	9	4	2	11
16"	14	20	11	6	3	14
18"	18	25	14	7	4	18
20"	22	31	17	9	4	22
24"	32	45	24	12	6	32
30"	48	68	37	19	10	48
36"	69	98	53	27	14	69

NOTES:

- ALL FITTINGS SHALL BE MECHANICAL JOINTS.
- DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
- WRAP ALL FITTINGS WITH POLY WRAP.
- BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
- BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
- ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL, SHALL BE BACKED.
- REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 2,000 LB/SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS REQUIRED BY CITY WATER DEPARTMENT.

CITY OF TONTITOWN		GEN. WATER/SEWER DETAIL: GWS10	
DRAWN BY: CRB CHECKED BY:		LAST REVISION DATE: 08/29/02	
APPROVED:		DATE: 09/01/05	



RICHARDSON ENGINEERING

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WATER & SANITARY SEWER DETAILS

NAPA SUBDIVISION PHASE 3

PART OF THE SW 1/4 OF THE SW 1/4, SECTION 36, T-18-N, R-31-W

NORRHO LLC

4285 N. SHILOH DRIVE

FAYETTEVILLE, AR 72703

Prepared For:

AS PER CITY COMMENTS 09/10/19

Date:

09/26/19

Revision:

08/30/19

09/16/19

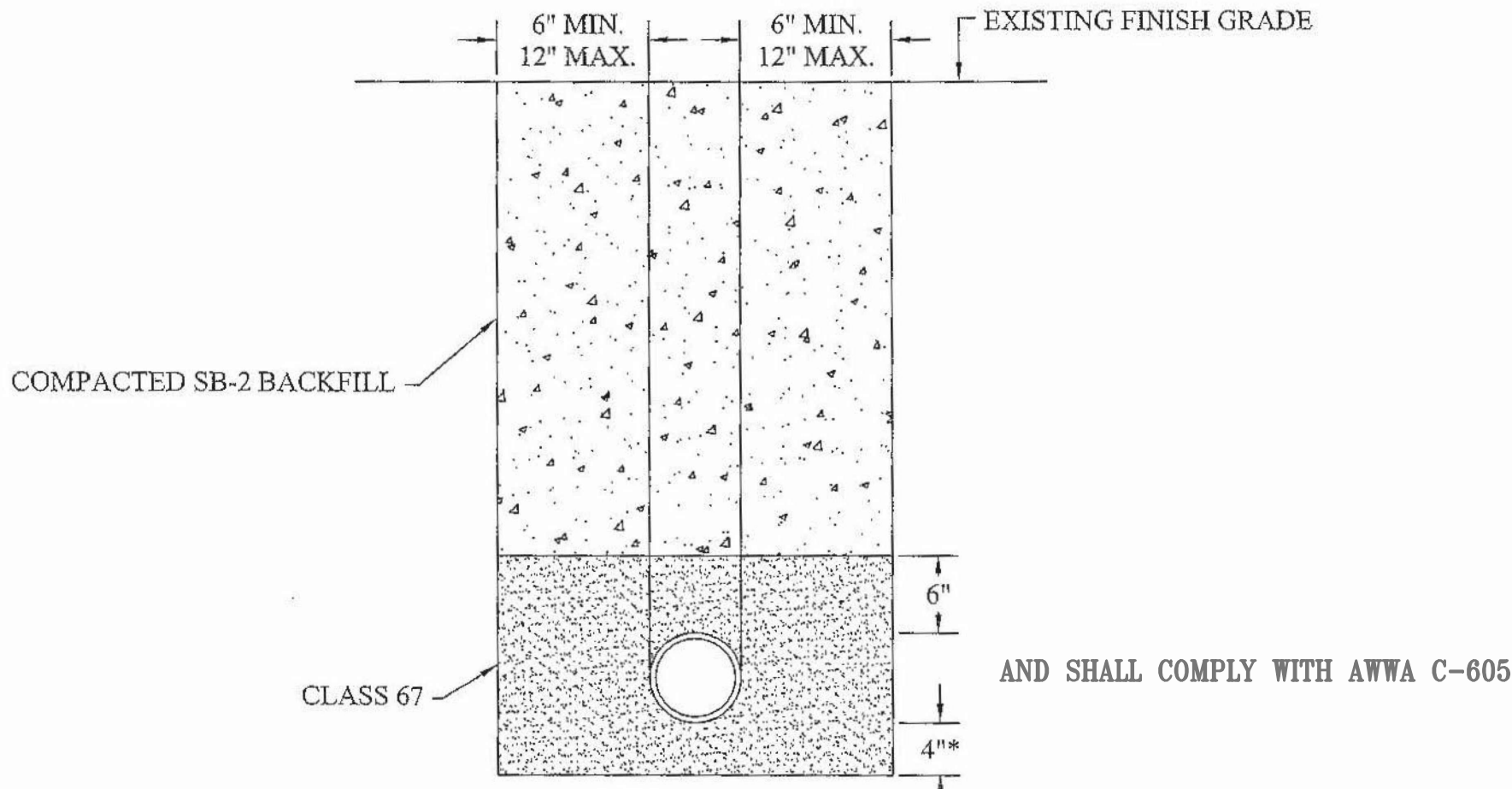
Scale:

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Sheet:

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UNIMPROVED ROADS & DRIVEWAYS-PRIVATE DRIVEWAYS & PARKING AREAS

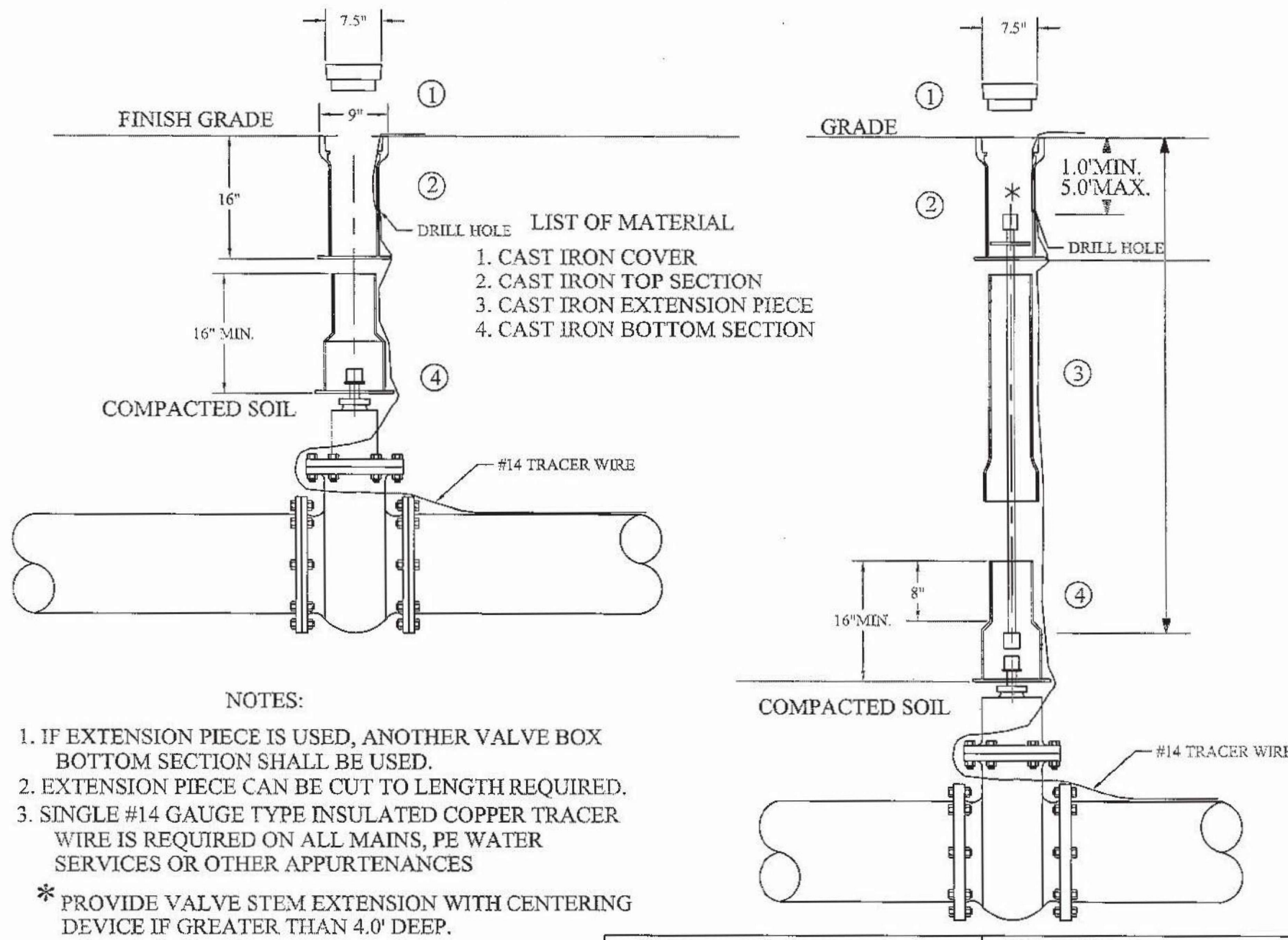


* IF IN ROCK 6" MIN. CLASS #67 STONE REQUIRED.
** IMPROVED PRIVATE DRIVEWAYS AND PARKING AREAS BACKFILLED AS SHOWN ABOVE.
SUBSURFACE MATERIAL TO EQUAL OR EXCEED EXISTING SURFACE.
ASPHALTIC CONCRETE WALKS - MINIMUM THICKNESS 4"
CONCRETE DRIVES OR PARKING AREAS - MINIMUM THICKNESS 6".

NOTE: PRIVATE PARKING AREAS, DRIVEWAYS & WALKS-SEE UNIMPROVED ROADS

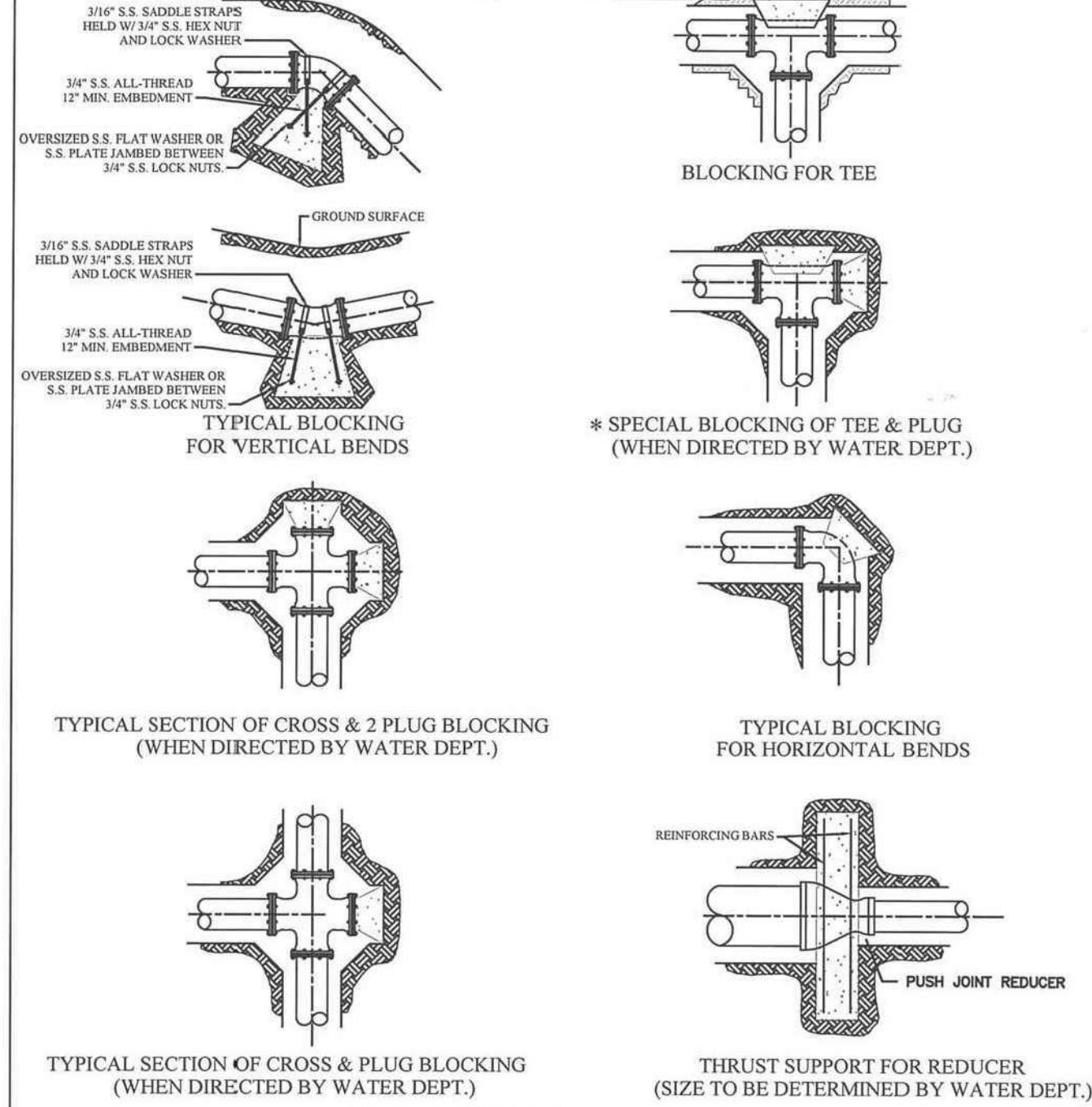
CITY OF TONTITOWN		GEN. WATER/SEWER DETAIL: GWS09	
DRAWN BY: CRB		LAST REVISION DATE: 08/29/02	
CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05	

VALVE BOX INSTALLATION



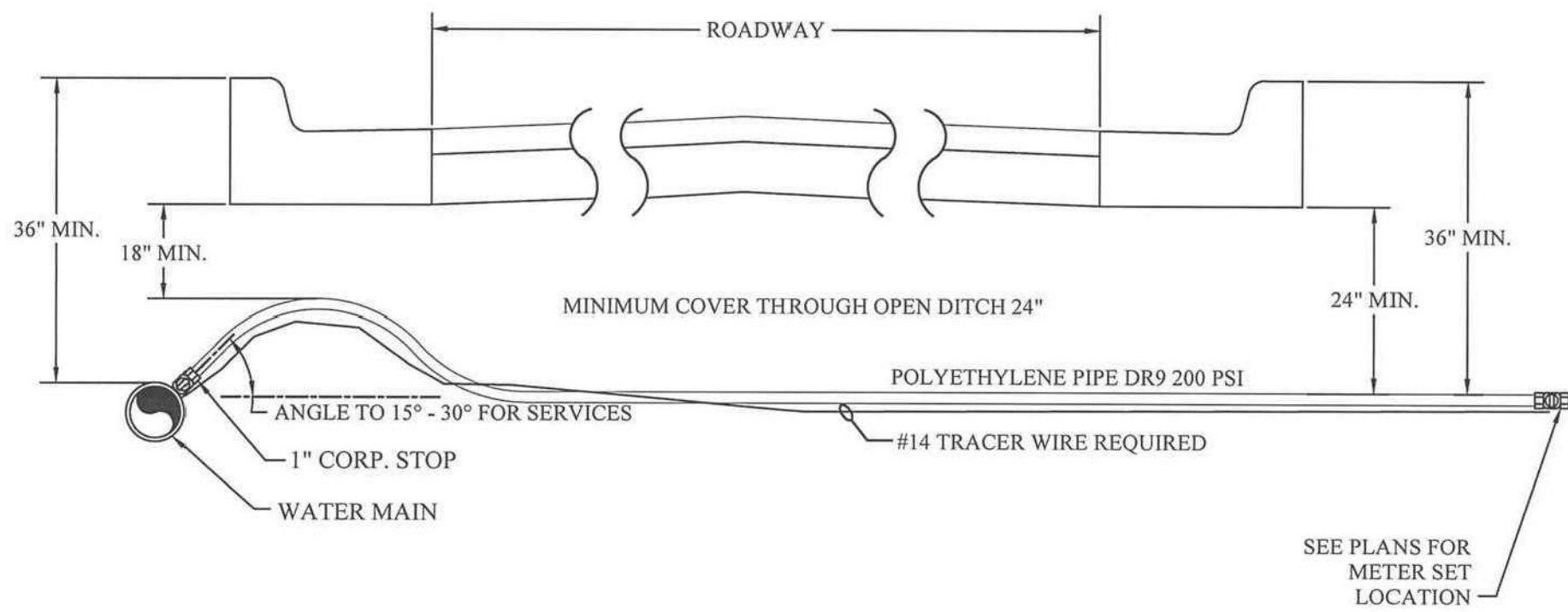
CITY OF TONTITOWN		WATER DETAIL: W07	
DRAWN BY: CRB		LAST REVISION DATE: 08/29/02	
CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05	

THRUST BLOCKING



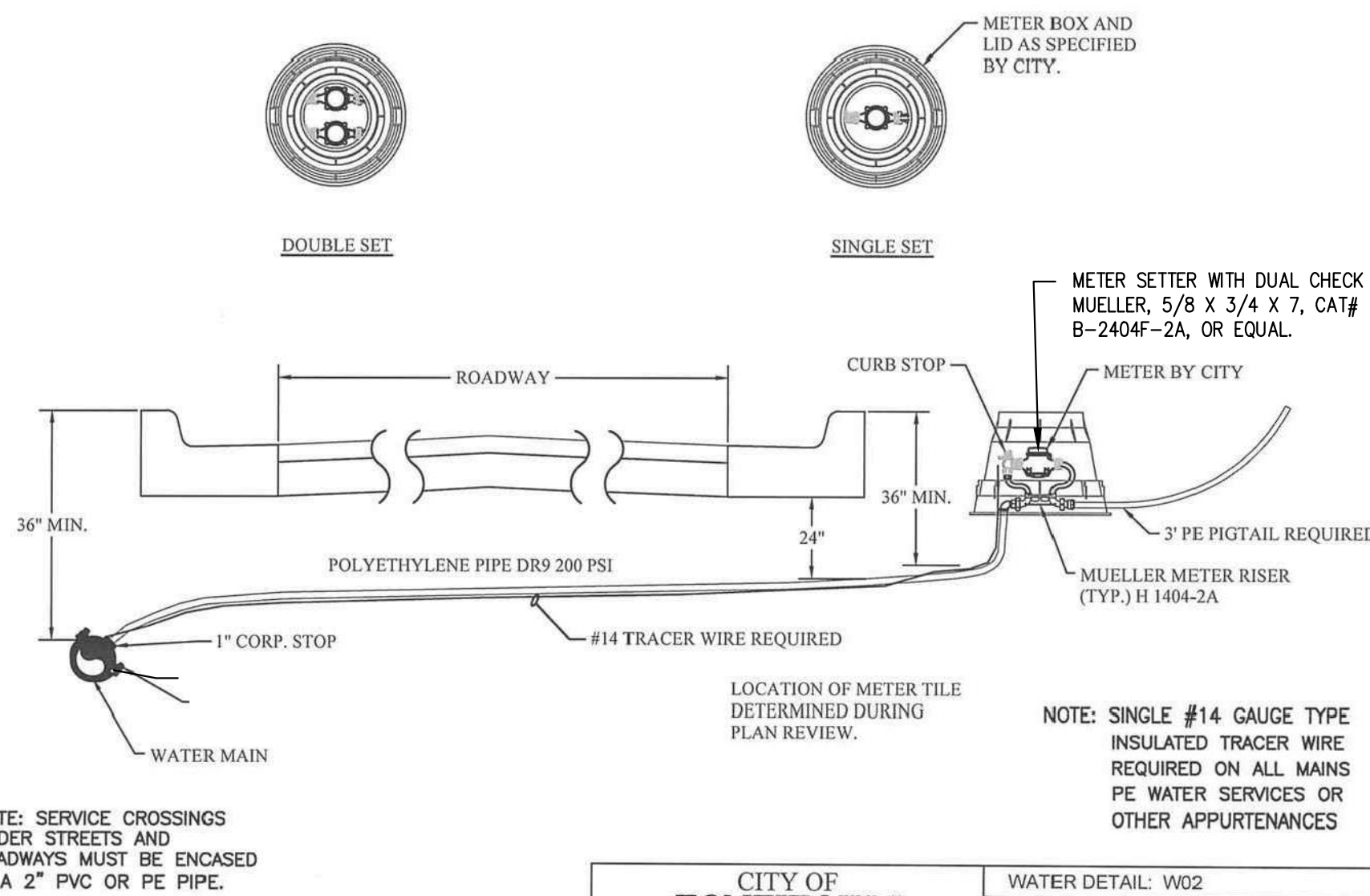
CITY OF TONTITOWN		GEN. WATER/SEWER DETAIL: GWS02	
DRAWN BY: CRB		LAST REVISION DATE: 08/29/02	
CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05	

1" SERVICE CONNECTIONS



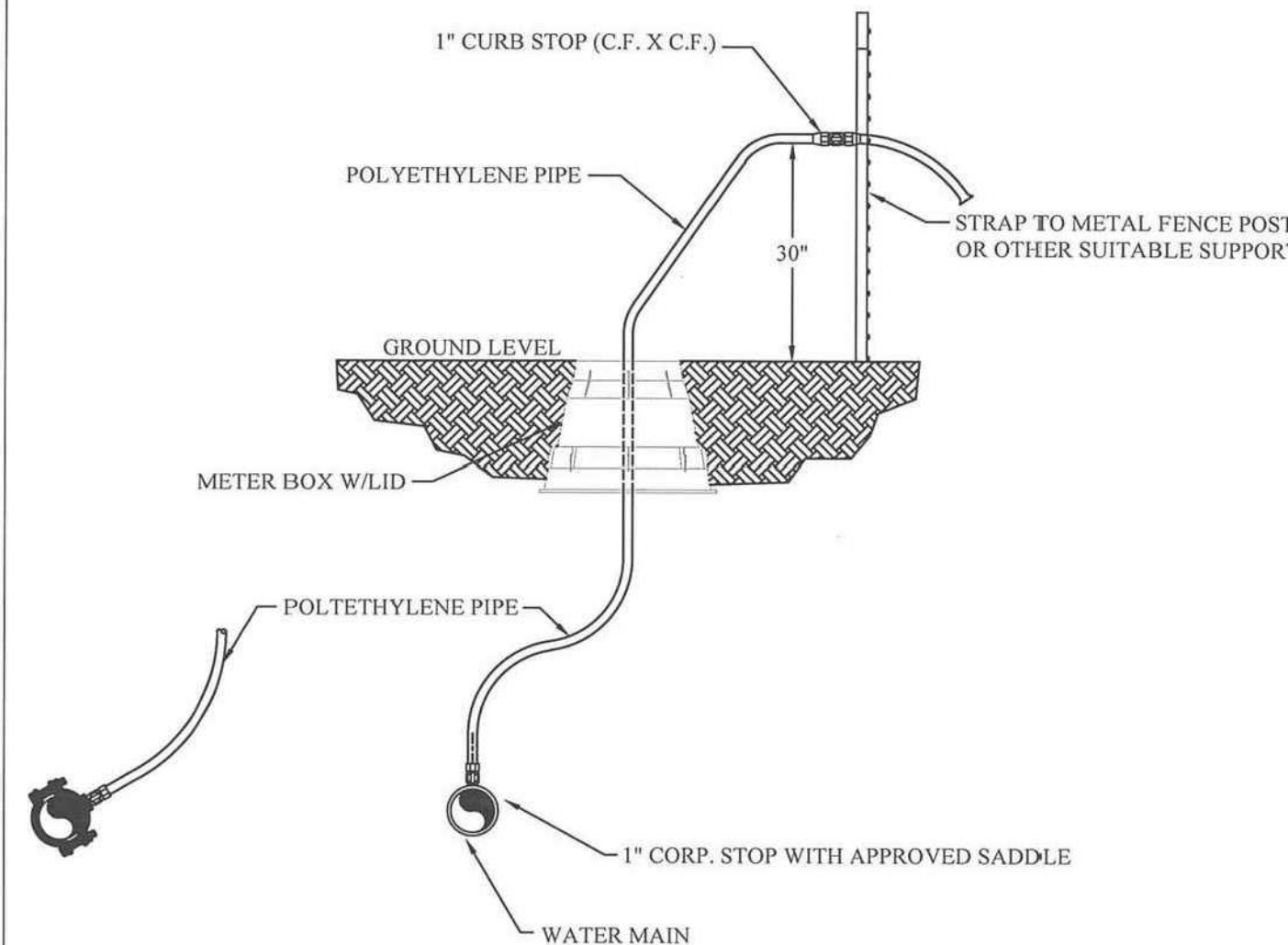
CITY OF TONTITOWN		WATER DETAIL: W03	
DRAWN BY: CRB		LAST REVISION DATE: 03/18/16	
CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05	

WATER SERVICE DETAIL 1"

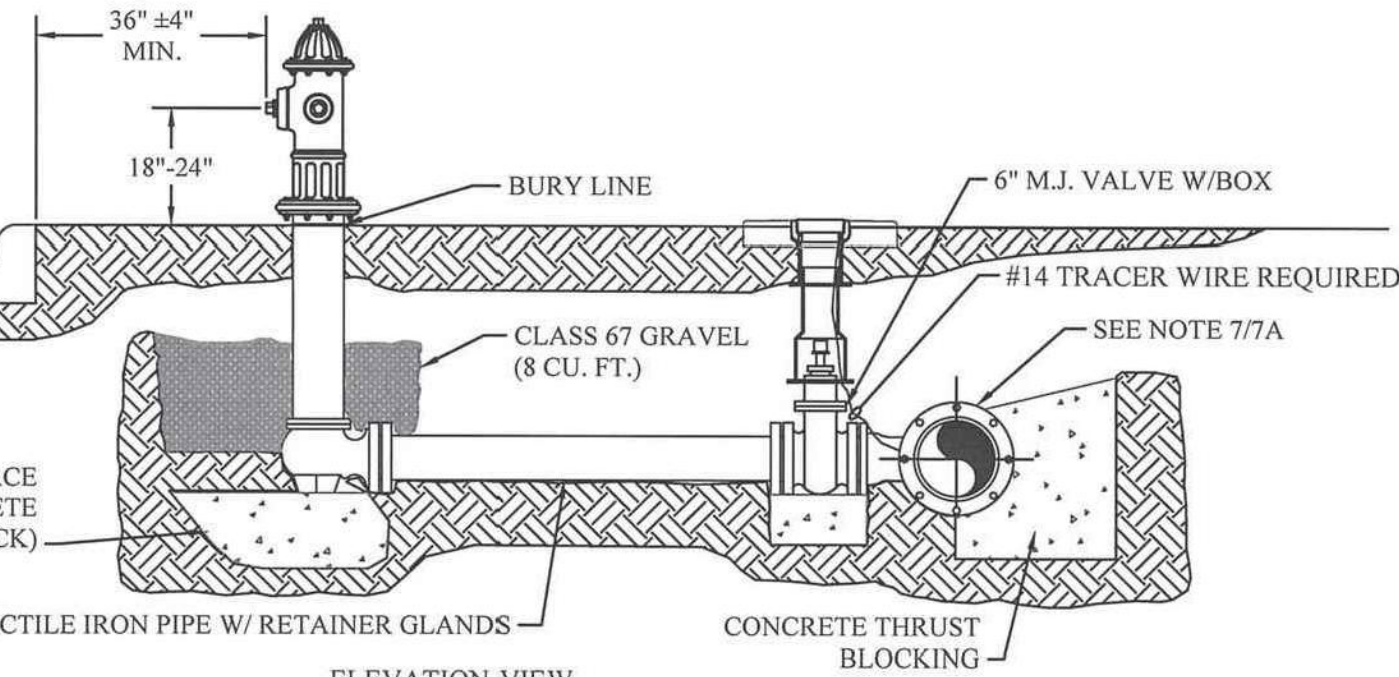


CITY OF TONTITOWN		WATER DETAIL: W02	
DRAWN BY: CRB		LAST REVISION DATE: 03/18/16	
CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05	

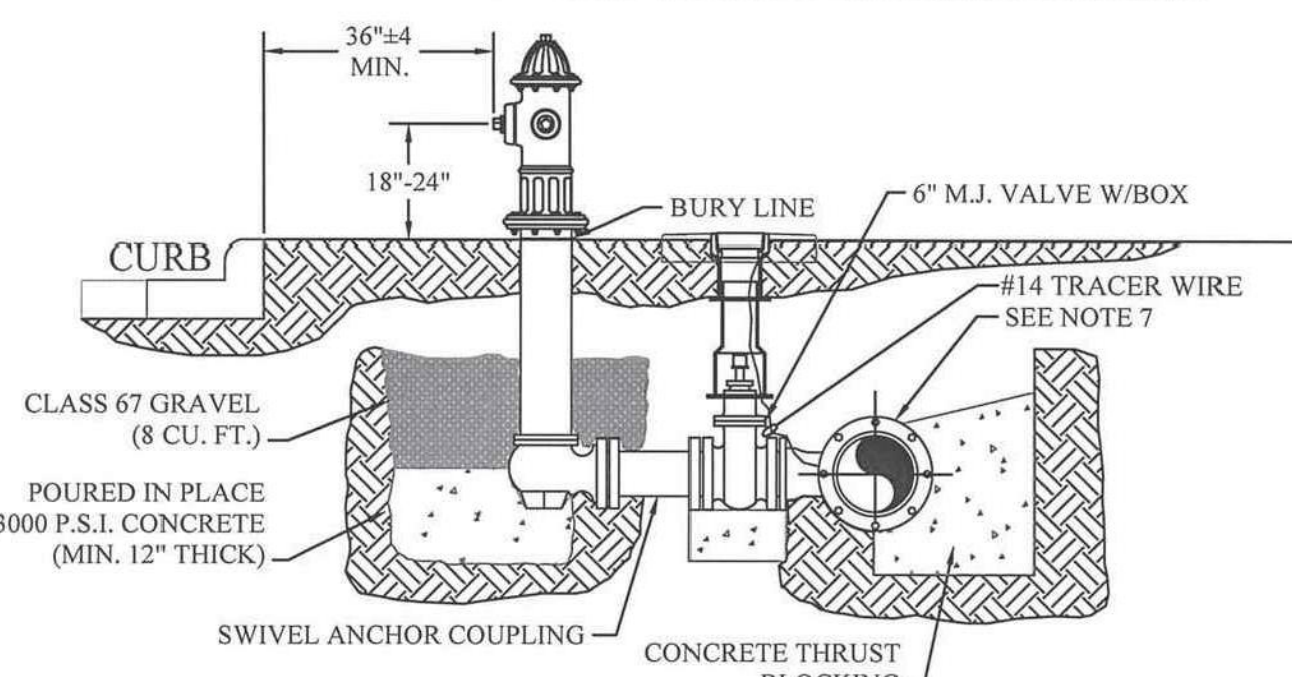
TEMPORARY 1" BLOW OFF ASSEMBLY / SAMPLE POINTS



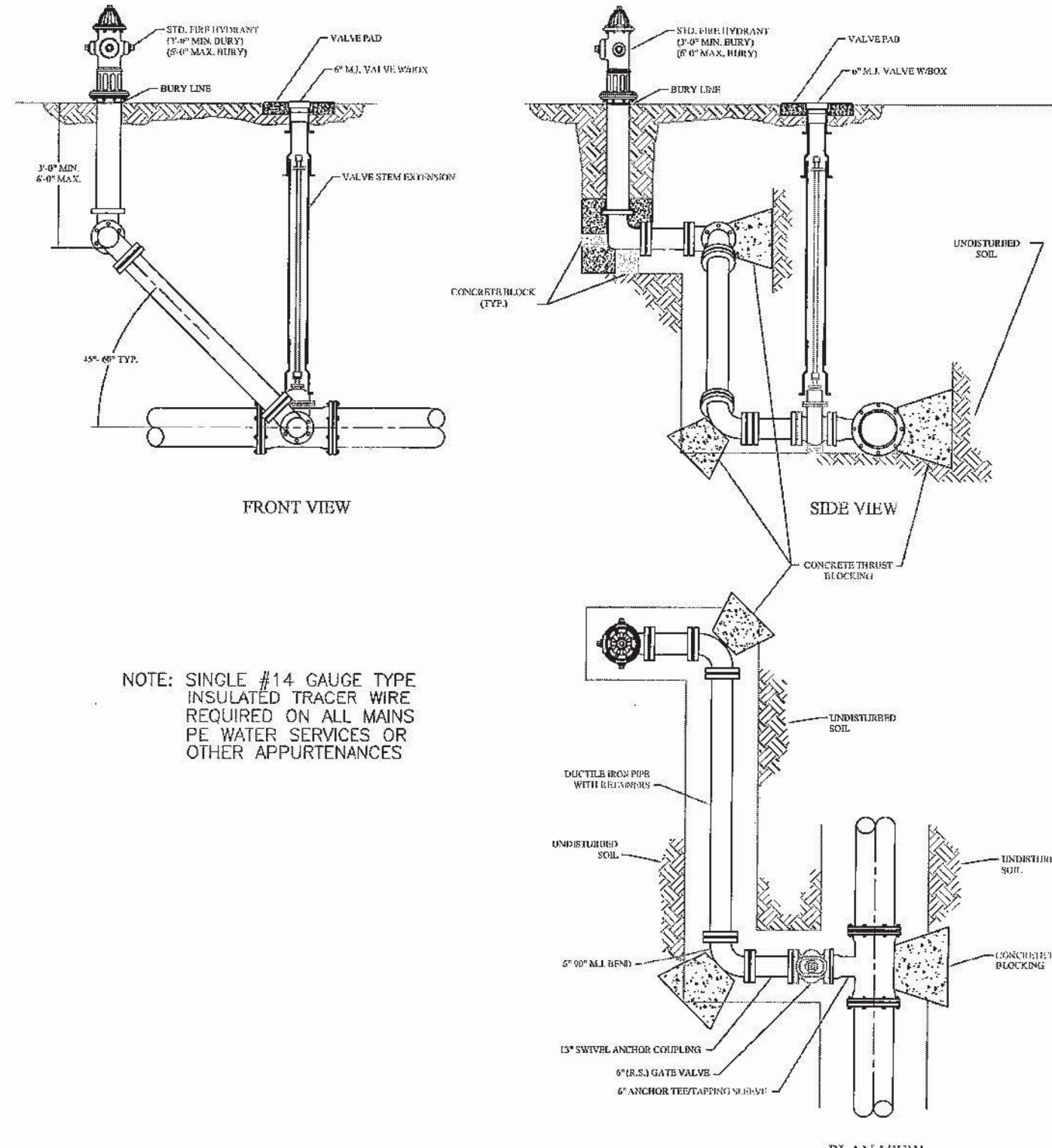
CITY OF TONTITOWN		WATER DETAIL: W01	
DRAWN BY: CRB		LAST REVISION DATE: 08/29/02	
CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05	



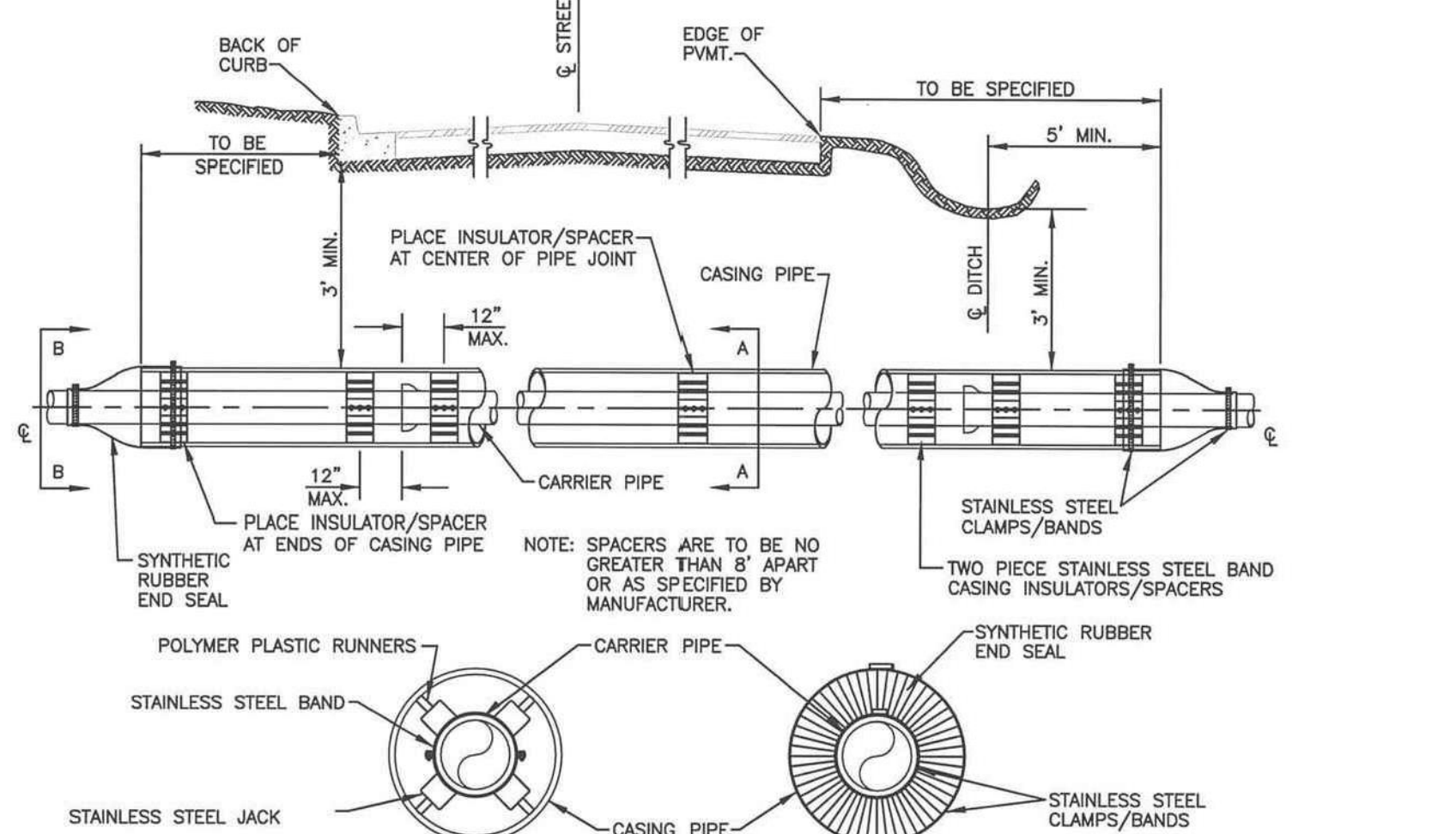
- | | | | |
|----------------------|-------------------|------------------------------|----------------|
| CITY OF
TONTITOWN | | WATER DETAIL: W04 | |
| | | LAST REVISION DATE: 08/29/02 | |
| DRAWN BY: CRB | CHECKED BY: _____ | APPROVED: _____ | DATE: 09/01/05 |



- | | | | |
|----------------------|-------------------|------------------------------|----------------|
| CITY OF
TONTITOWN | | WATER DETAIL: W05 | |
| | | LAST REVISION DATE: 08/29/02 | |
| DRAWN BY: CRB | CHECKED BY: _____ | APPROVED: _____ | DATE: 09/01/05 |

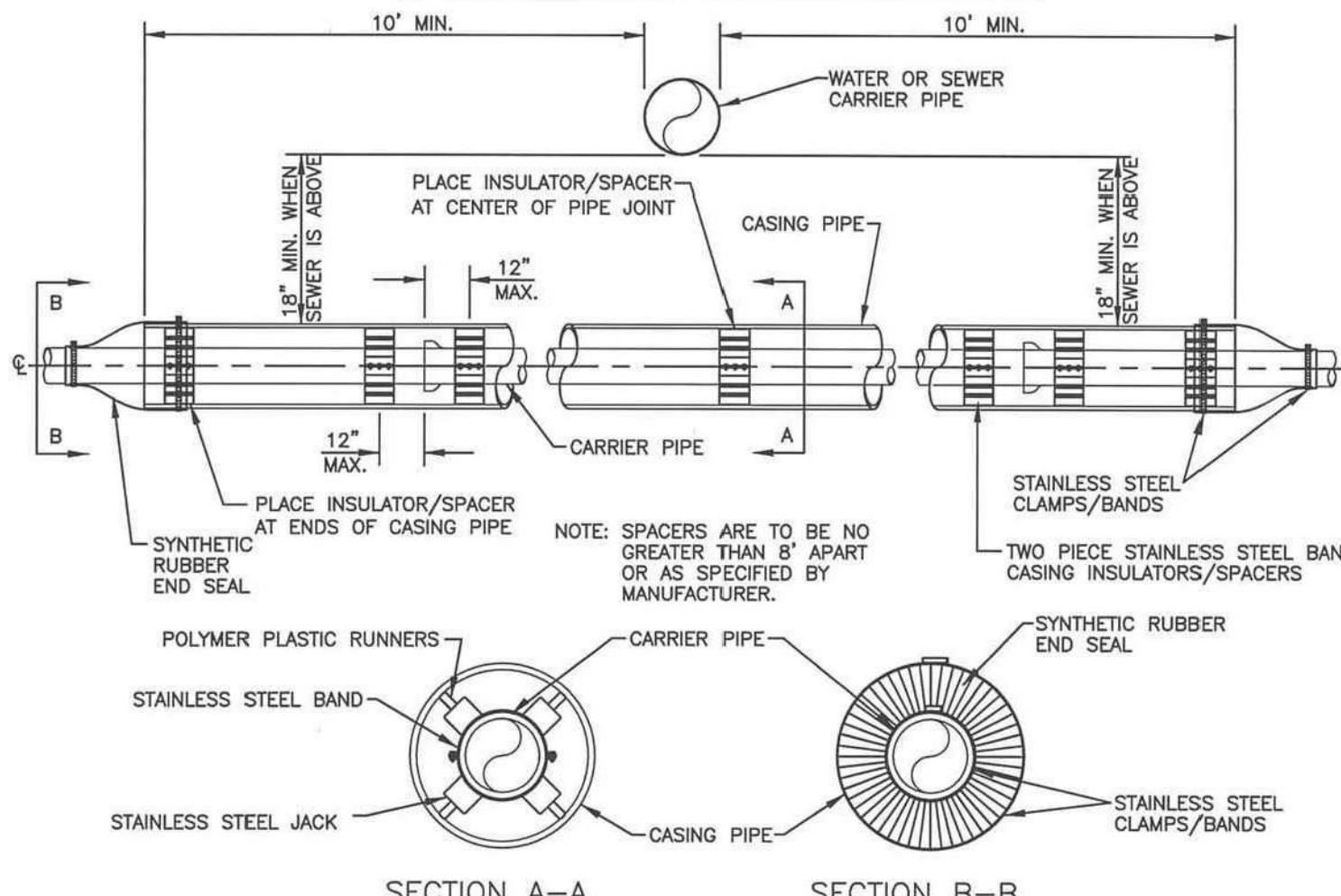


CITY OF TONTITOWN		WATER DETAIL: W06	
		LAST REVISION DATE: 08/29/02	
DRAWN BY: CRB	CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05



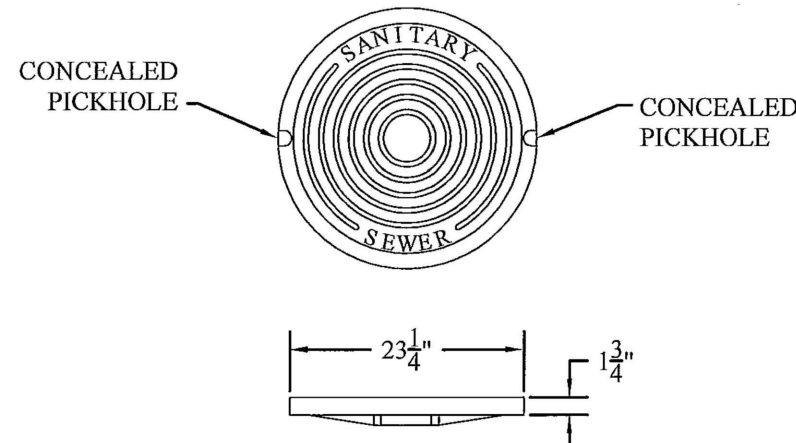
NOTE: SINGLE #14 GAUGE TYPE
INSULATED TRACER WIRE
REQUIRED ON ALL MAINS
PE WATER SERVICES OR
OTHER APPURTENANCES

CITY OF TONTITOWN		WATER, OR SEWER.	
		GEN. WATER/SEWER DETAIL: GWS01	
		LAST REVISION DATE: 08/29/02	
DRAWN BY: CRB	CHECKED BY: _____	APPROVED: _____	DATE: 09/01/05



NOTE: SINGLE #14 GAUGE TYPE
INSULATED TRACER WIRE
REQUIRED ON ALL MAINS
PE WATER SERVICES OR
OTHER APPURTENANCES

CITY OF TONTITOWN		GEN. WATER/SEWER DETAIL: GWS#4	
		LAST REVISION DATE: 08/29/02	
DRAWN BY: CRB	CHECKED BY:	APPROVED:	DATE: 09/01/05



CONCRETE MANHOLE FRAME
TO MANHOLE AT SAME
TIME MANHOLE IS CAST.
(SEE CAST-IN-PLACE
SANITARY SEWER
MANHOLE DETAIL.)

25"

22"

32"

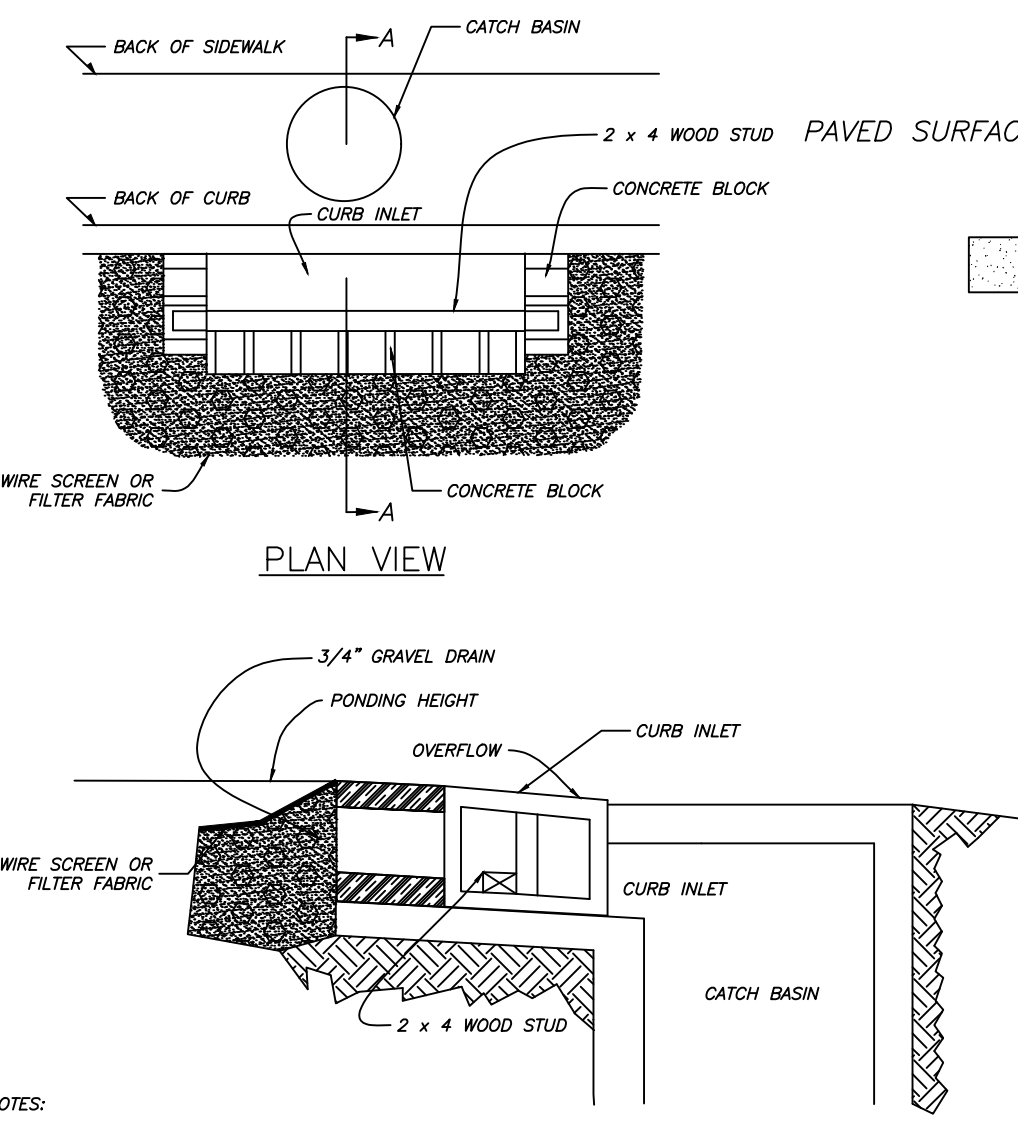
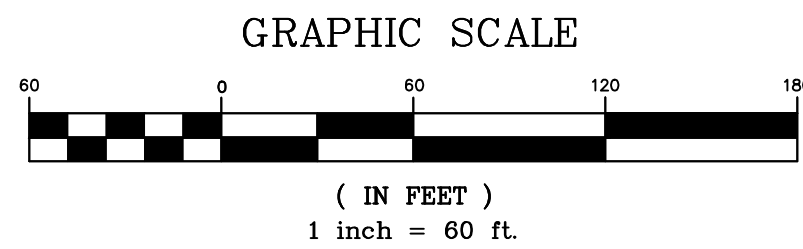
STANDARD MANHOLE
CONSTRUCTION PER DETAIL

The diagram shows two cross-sections of a manhole. The left section shows a manhole with a frame cast in place with the walls, with dimensions of 25" for the top width, 22" for the opening width, and 32" for the depth of the frame. The right section shows a standard manhole construction with a separate frame and walls, with a depth dimension of 32".

CITY OF TONTITOWN		SANITARY SEWER DETAIL: SS04	
		LAST REVISION DATE: 03/27/13	
DRAWN BY: FCN	CHECKED BY: TWC	APPROVED: _____	DATE: 09/01/05

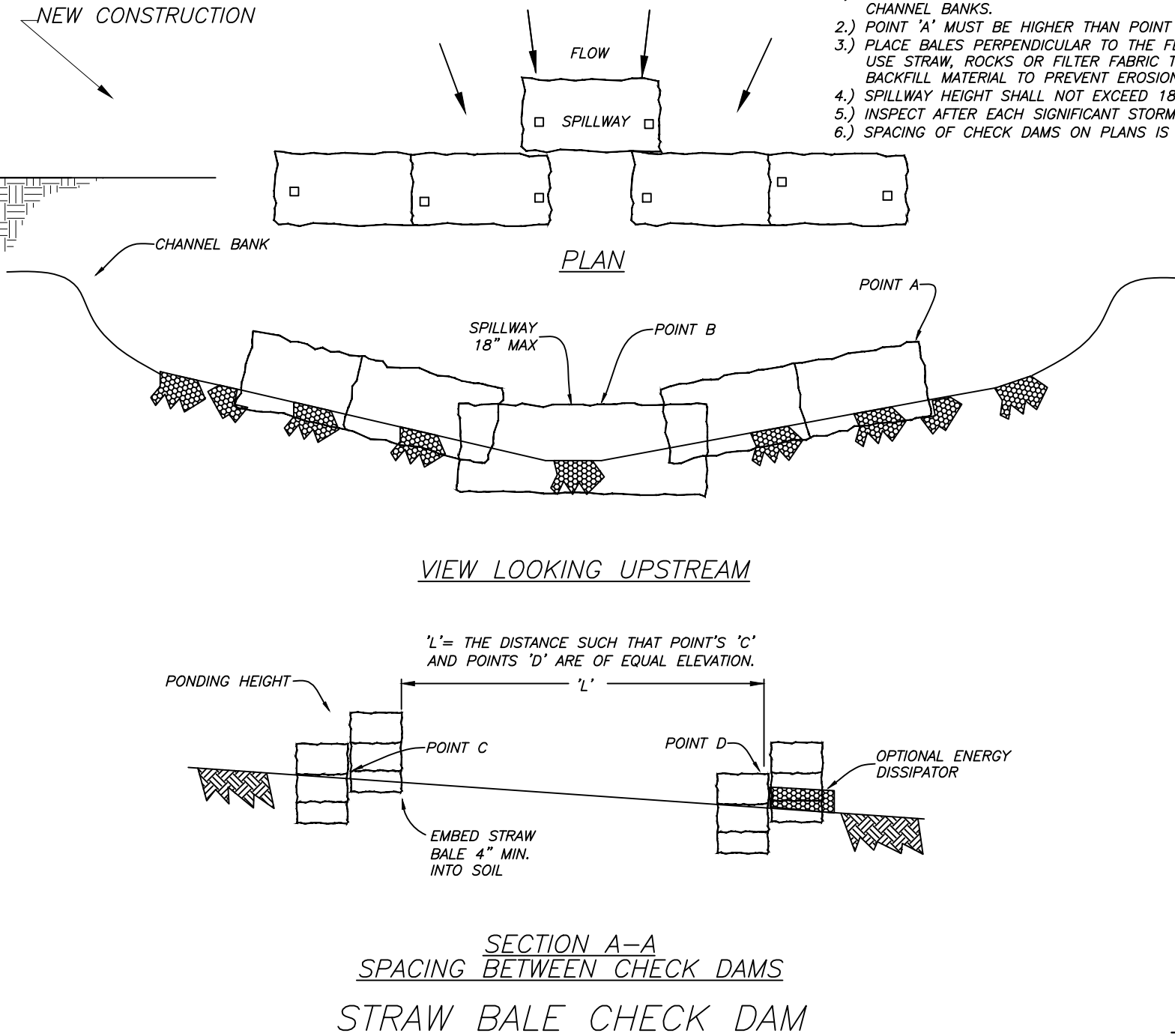
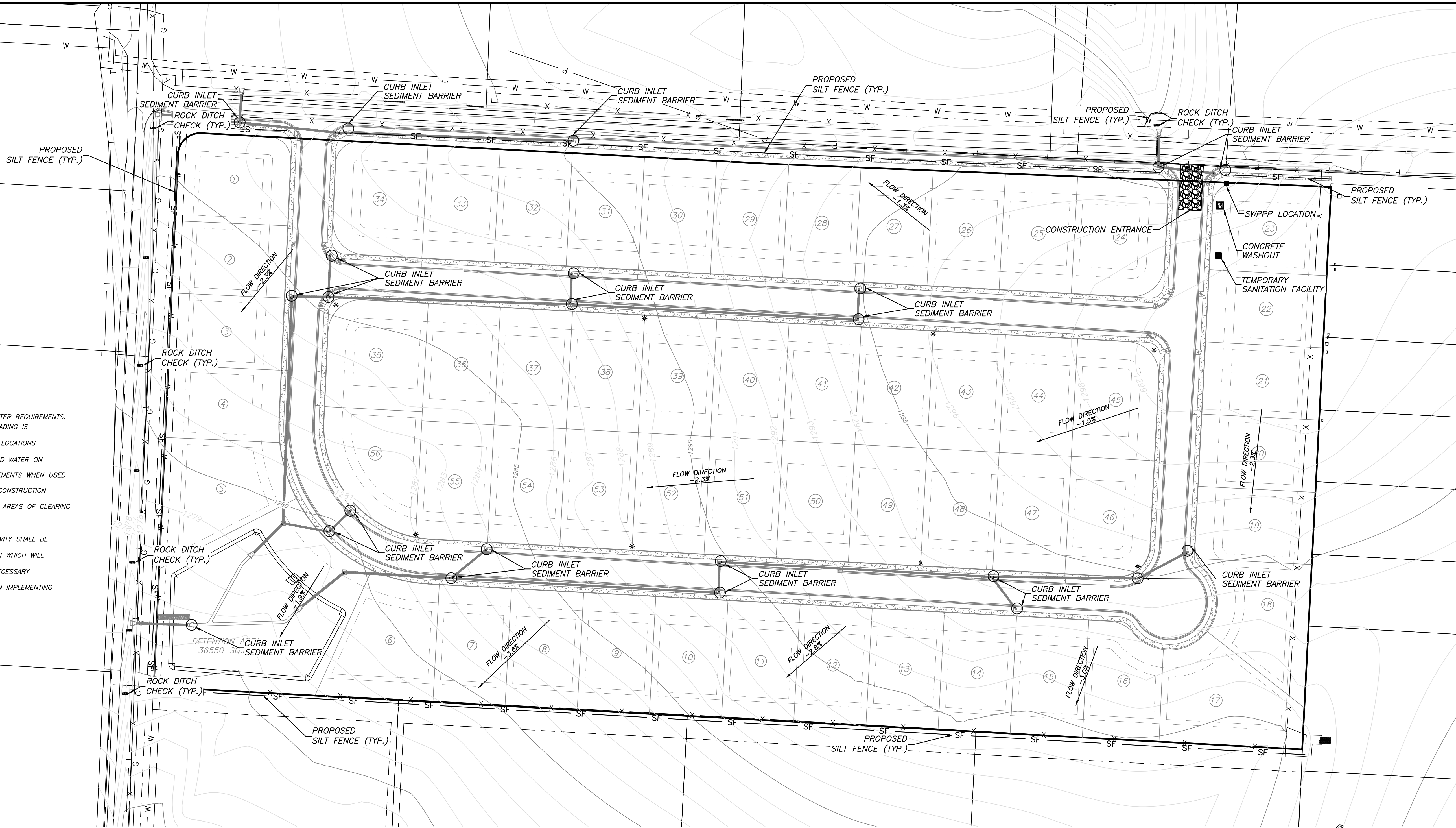


- GENERAL NOTES:
- 1.) DEVELOPMENT SHALL ADHERE TO CITY OF BENTON AND ADEQ STORMWATER REQUIREMENTS.
 - 2.) SEDIMENT BARRIERS SHALL BE CONSTRUCTED AT EACH INLET UNTIL GRADING IS COMPLETE AND TOP SOIL IS STABILIZED.
 - 3.) A SILT FENCE AND STRAW BALE DIKE SHALL BE PLACED AT POTENTIAL LOCATIONS OF HEAVY EROSION.
 - 4.) TEMPORARY STRAW BALE DIKES ARE TO BE CONSTRUCTED NOT TO POND WATER ON ADJACENT PROPERTY.
 - 5.) ROCK DIKE CHECK DAMS TO BE CONSTRUCTED TO MEET ADEQ REQUIREMENTS WHEN USED IN LIEU OF STRAW BALE DIKES.
 - 6.) ALL TEMPORARY EROSION CONTROLS SHALL BE MAINTAINED UNTIL ALL CONSTRUCTION IS COMPLETE & PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
 - 7.) ONE OF THE FOLLOWING GROUND COVER METHODS SHALL BE USED AT AREAS OF CLEARING OTHER THAN FUTURE PAVEMENT SURFACES.
STRAW OR HAY-LOOSE 2.0 TONS/ACRE
STRAW OR HAY-TIED, ANCHORED, OR TACKED 1.5 TONS/ACRE
 - 8.) SOIL EXPOSED FOR MORE THAN 21 DAYS WITH NO CONSTRUCTION ACTIVITY SHALL BE SEEDED OR RESEED.
 - 9.) CONSTRUCTION ENTRANCES/EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF MUD ON TO PUBLIC RIGHT-OF-WAY.
 - 10.) ADDITIONAL EROSION CONTROL MEASURES TO BE EMPLOYED WHERE NECESSARY BY SITE CONDITIONS.
 - 11.) CONTRACTOR SHALL USE "BEST MANAGEMENT PRACTICES" (BMP'S) WHEN IMPLEMENTING & MAINTAINING SEDIMENT & RUN-OFF CONTROLS.

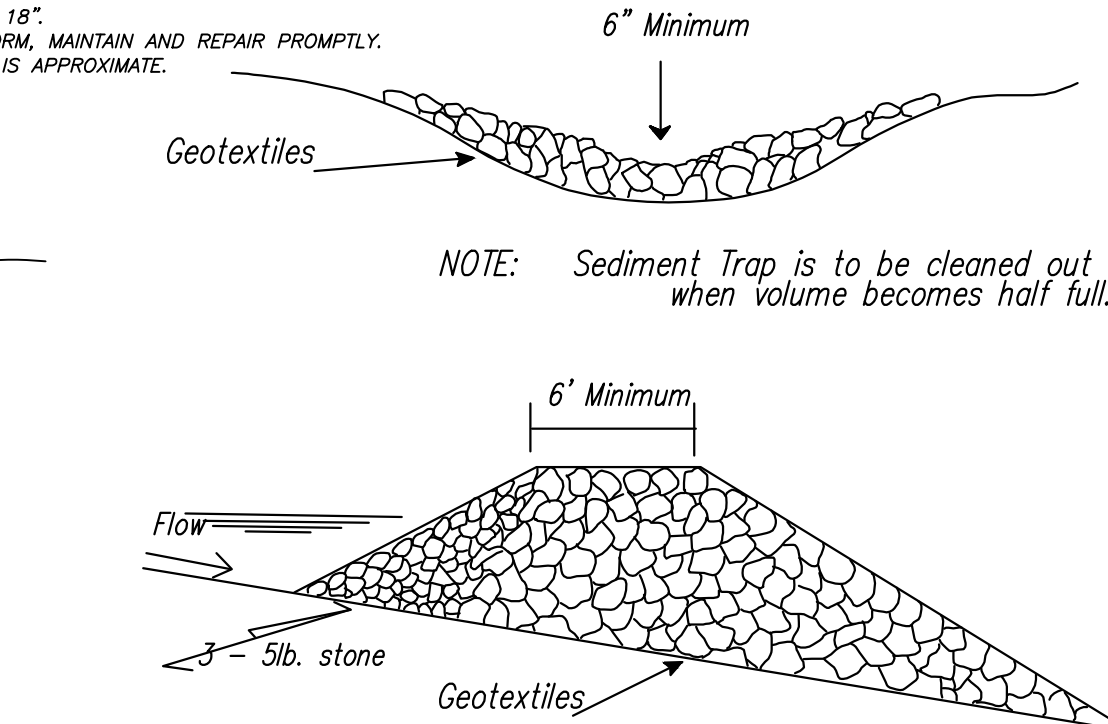


- NOTES:
- 1.) USE BLOCK AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 - 2.) BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
 - 3.) INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

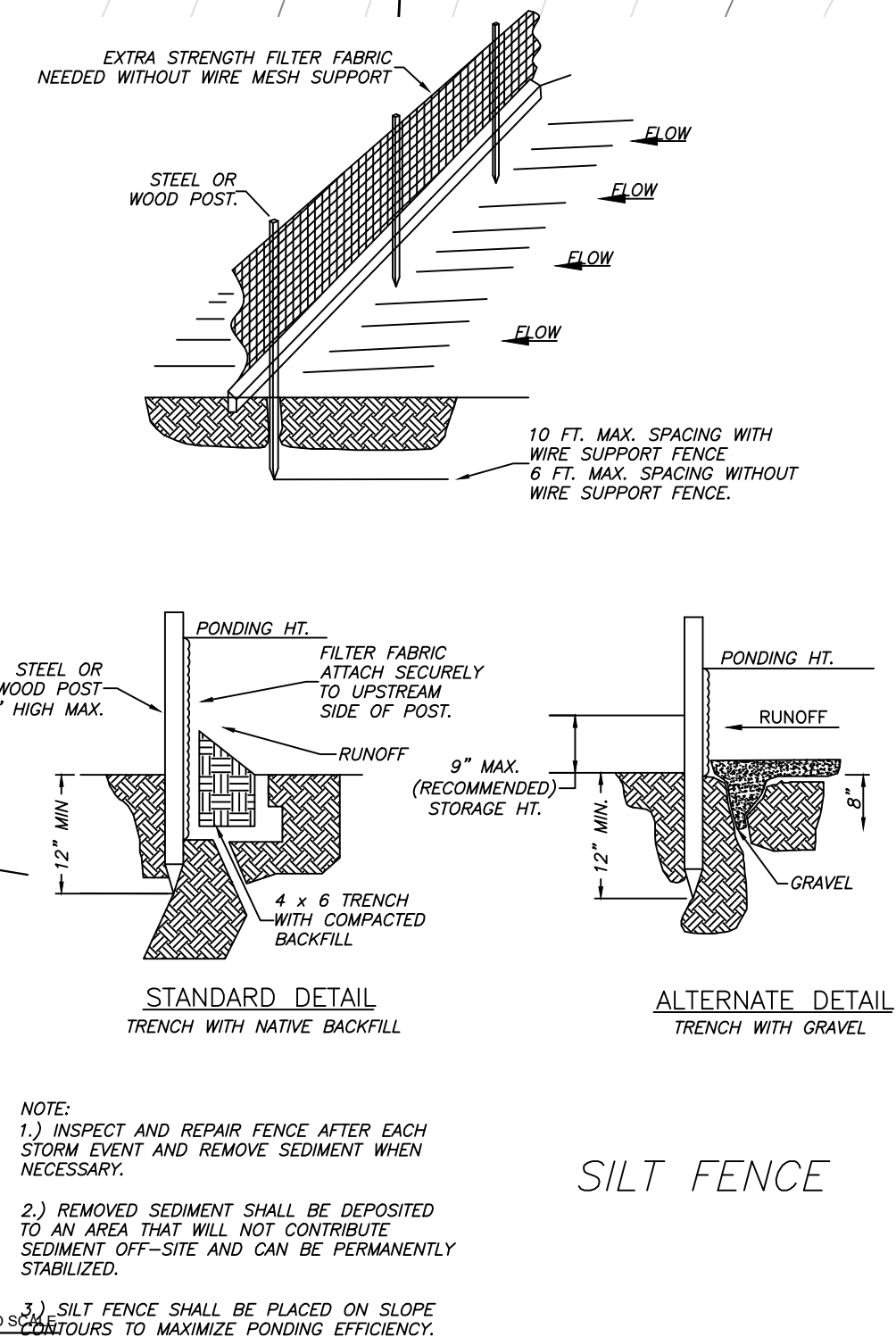
CONSTRUCTION ENTRANCE
NOT TO SCALE



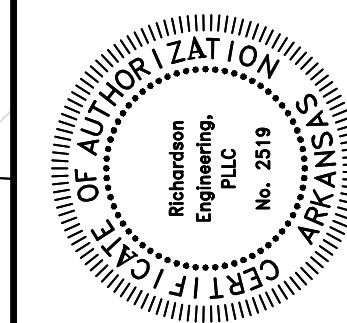
- NOTES:
- 1.) EMBED BALES 4" INTO THE SOIL AND 'KEY' BALES INTO THE CHANNEL BANKS.
 - 2.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT).
 - 3.) PLACE BALES PERPENDICULAR TO THE FLOW WITH ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE BALES.
 - 4.) SPILLWAY HEIGHT SHALL NOT EXCEED 18".
 - 5.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.
 - 6.) SPACING OF CHECK DAMS ON PLANS IS APPROXIMATE.



- NOTES:
- 1.) FOR USE IN SMALL CHANNELS WITH DRAINAGE AREAS OF 50 ACRES OR LESS.
 - 2.) MUST BE USED IN CONJUNCTION WITH OTHER APPROPRIATE SEDIMENT CONTROL MEASURES.
 - 3.) USE BELOW DELIVERY INSTALLATIONS, DAM CONSTRUCTION, OR ANY PROJECT THAT MAY INVOLVE GRADING ACTIVITY DIRECTLY IN A STREAM.
 - 4.) NOT INTENDED TO SUBSTANTIALLY IMPOUND WATER.
 - 5.) USE AT THE UPSTREAM END OF POND OR LAKE.
 - 6.) EDGES SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS.
 - 7.) CENTER SHOULD BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES OF THE DAM AT THE CHANNEL BANKS.
 - 8.) HEIGHT SHOULD NOT EXCEED ELEVATION OF UPSTREAM PROPERTY LINE.
 - 9.) SIDE SLOPES SHOULD BE 3:1 OR FLATTER.
 - 10.) TOP WIDTH SHOULD BE GREATER THAN 6 FEET.
 - 11.) EXTEND COMPLETELY ACROSS THE CHANNEL, AND SECURELY TIE INTO BOTH CHANNEL BANKS.
 - 12.) REQUIRES PERIODIC INSPECTION AND MAINTENANCE.
 - 13.) SEDIMENT REMOVED WHEN IT REACHES ONE-HALF OF THE ORIGINAL DAM HEIGHT.



- NOTES:
- 1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 - 2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - 3.) SILT FENCE SHALL BE PLACED ON SLOPE NOT TO STABILIZE TO MAXIMIZE PONDING EFFICIENCY.



Prepared For:

Date:

Revisions:

No.:

Date: 08/31/19

Scale: 1" = 60'

Sheet: 30 of 31

Rick Barry

From: Philip Arends
Sent: Friday, September 13, 2019 10:04 AM
To: Rick Barry
Subject: NAPA Phase III

Follow Up Flag: Follow up
Flag Status: Flagged

Rick, What concerns me is MORE traffic on an already overloaded collector street. Is the developer willing to ad resources to upgrade the street at some point?
Dump trucks and cement trucks are destroying Ardemagni.
Philip Arends - PW Foreman

Sent from my iPhone