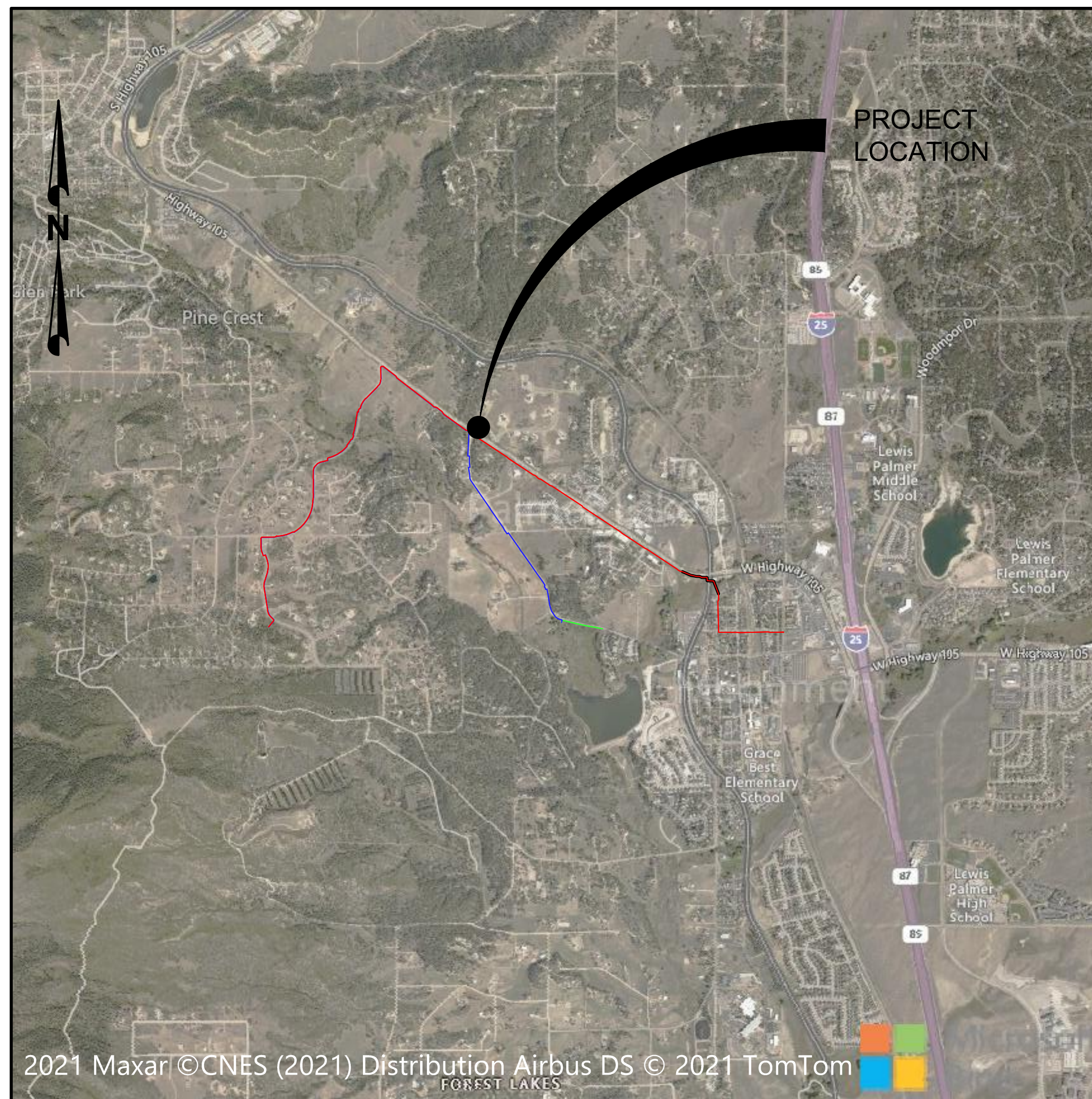


MONUMENT WATERLINE

MONUMENT, CO

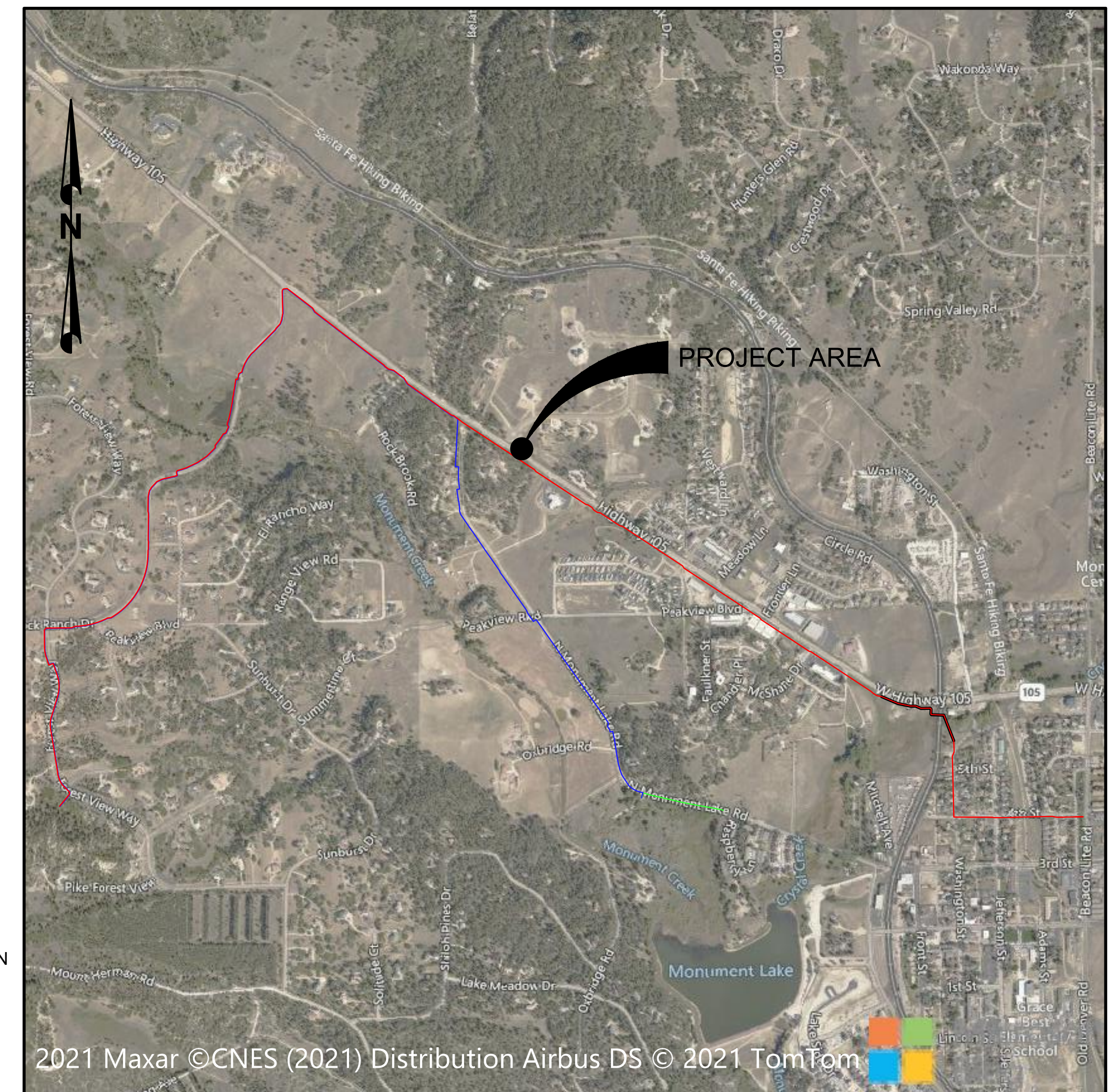
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24	C-19	PLAN AND PROFILE - STA 126+00 TO STA 133+00
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PROJECT LOCATION MAP

N.T.S.



VICINITY MAP

N.T.S.

FA PROJECT NO. 04-20-0153
MAY, 2022

ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

James Adams
JAMES ADAMS, PE #38375

6/22/22

DATE

OWNER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

Thomas A. Tharnish
TOM THARNISH, PUBLIC WORKS DIRECTOR

6-22-22

DATE

TOWN OF MONUMENT
645 BEACON LITE RD, MONUMENT, CO 80132

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION IS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

APPROVED
Engineering Department
07/28/2022 3:12:47 PM
dnjnkamp
EPC Planning & Community
Development Department
COUNTY ENGINEER / ECM ADMINISTRATOR

DATE

FORSGREN
Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



ISSUED
FOR BID

LEGEND

CIVIL ABBREVIATIONS

ANNOTATION

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	—□—
CHAIN LINK FENCE	—X—
BARBED WIRE FENCE	—X—
CONTOUR LINE	4250 [EL=4354.66]
SPOT ELEVATION	4250 [EL=4354.66]
BANK SLOPES	—
CANAL	—
OPEN DITCH	—
UNDERGROUND ELECTRIC	— UE —
OVERHEAD ELECTRIC	—
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(E)
GAS LINE	— NG —
GAS VALVE	—
GAS METER	—
IRRIGATION LINE	— IRR —
SANITARY SEWER LINE	— SS —
SANITARY SEWER CLEANOUT	—
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	— SW —
SECONDARY WATER VALVE	—
SECONDARY WATER VAULT	—
STORM DRAIN LINE	— SD —
STORM DRAIN CATCH BASIN	—
STORM DRAIN INLET(S)	—
STORM DRAIN COMBO BOX	—
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	—
STORM DRAIN VAULT	—
CULVERT	— SD —
TELEPHONE CABLE	— COMM —
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	—
WATER LINE	— PW —
FIRE HYDRANT	—
FIRE RISER	—
WATER VALVE	—
WATER AIR RELEASE VALVE	—
WATER METER	—
UTILITY POLE & ANCHOR	— OHE —
POWER POLE	—
STREET LIGHT	—
LIGHT	—
ASPHALT PAVING	—
CURB & GUTTER	—
SIDEWALK	—
RAILROAD TRACKS	—
GUARD RAIL	—
SIGN	—
STRUCTURE	—
LANDSCAPING (TREES ETC.)	12 11 4 3
SECTION CORNER	—
MONUMENT	—
BENCH MARK	—
SURVEY CONTROL POINT	△ CP800

REVISION TRIANGLE	← REVISION NO. 1
DETAIL CALLOUT	1 C-001 ← DETAIL # ← SHEET NO.
KEYNOTE CALLOUT	1 ← KEYNOTE REFERENCE
PIPE CALLOUT	← SYSTEM SS 18" PVC ← MATERIAL ← SIZE
SECTION CALLOUT	← DESIGNATION A G-001 ← SHEET NO. ← DETAIL NAME/DESCRIPTION 4' MANHOLE SCALE: 1/2"=1'-0"
DETAIL NAME	11 22 33 ← SPECIFICATION NO.
SECTION NAME	TYPICAL ROAD ← SECTION DESCRIPTION A ← DESIGNATION SCALE: 1"=1"
VIEW NAME	PLAN VIEW ← VIEW DESCRIPTION SCALE: 1"=1"
GENERAL CALLOUT	← GENERAL NOTE
PROPOSED CALLOUT	← CONSTRUCTION NOTE

ALT	ALTERNATE
APPROX	APPROXIMATELY
BDRY	BOUNDARY
BKFL	BACKFILL
BM	BENCH MARK
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CALC	CALCULATED
CB	CATCH BASIN
CCW	COUNTERCLOCKWISE
CEN	CENTER
CFS	CUBIC FEET PER SECOND
CL or CL	CENTERLINE/CONTROL LINE
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CU	CUBIC
CW	CLOCKWISE
°	DEGREE
DET	DETAIL
Ø, DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
ELEV	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EXC	EXCAVATION
EQUIP	EQUIPMENT
EXIST	EXISTING
FD	FOUND
FG	FINISH GRADE
FL OR F L	FLOW LINE
FPS	FEET PER SECOND
FT	FEET
GALV	GALVANIZED
GRD	GROUND

HDWL	HEADWALL
HORIZ	HORIZONTAL
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
L	LENGTH
LF	LINEAR FEET
LIN	LINEAR/LINEAL
LT	LEFT
MATL	MATERIAL
MAX	MAXIMUM
MKR	MARKER
MH	MANHOLE
MI	MILE
MISC	MISCELLANEOUS
MON	MONUMENT
N	NORTH
N/A	NO ACCESS or NOT APPLICABLE
NTS	NOT TO SCALE
No	NUMBER
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
O-O	OUTSIDE TO OUTSIDE
ORIG	ORIGINAL
PVMT	PAVEMENT
PC	POINT OF CURVATURE
PE	POLYETHELENE
PERF	PERFORATED
PROJ	PROJECT
PROP	PROPERTY
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY

RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
REV	REVISION
S	SOUTH
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	SANITARY SEWER
ST	STREET
STL	STEEL
STA	STATION
STD	STANDARD
TEMP	TEMPORARY
TEL	TELEPHONE/TELEGRAM
TP	TELEPHONE POLE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODES
UG	UNDERGROUND
UT	UNDERGROUND TELEPHONE
VB	VALVE BOX
VERT	VERTICAL
VOL	VOLUME
W	WEST/WATER
WM	WATER METER
WV	WATER VALVE
XING	CROSSING
W/	WITH
W/O	WITHOUT
△	DELTA
%	PERCENT

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\General\G-02 - LEGEND NOTES AND ABBREVIATIONS.dwg - 4/28/2022 2:06 PM

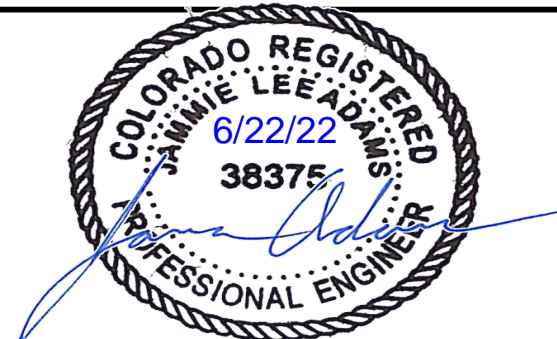
NO.	REVISIONS	BY	DATE

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID



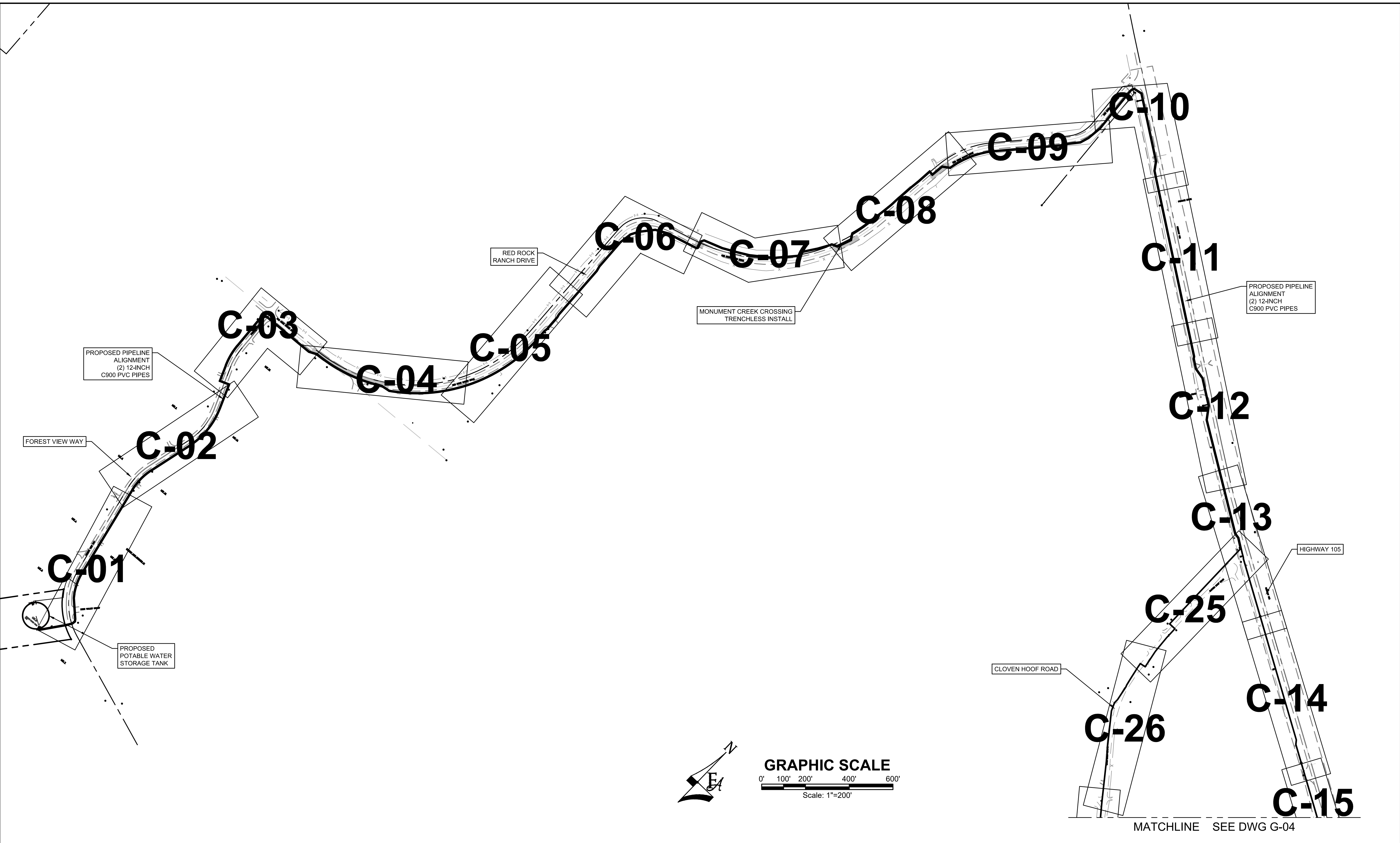
FORSYGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



MONUMENT WATERLINE
LEGEND, NOTES AND ABBREVIATIONS

PROJECT NO:	04-20-0153
SHEET NO:	G-02
DATE:	MAY, 2022
PAGE NO:	2 OF 45

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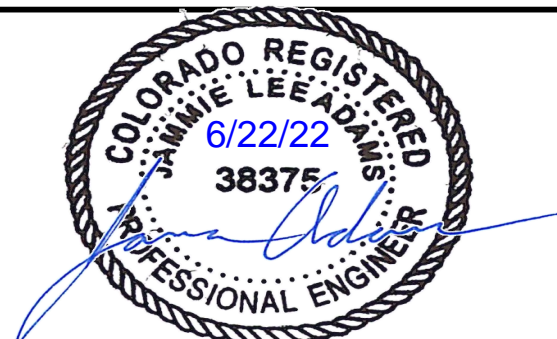
DRAWN	_____	S. CALE
DESIGNED	DESIGNED BY	_____
APPROVED	APPROVED BY	_____
QA	QA BY	_____

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

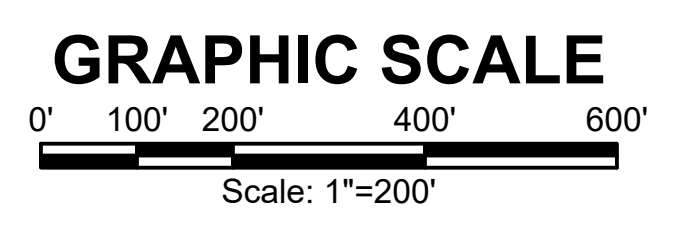
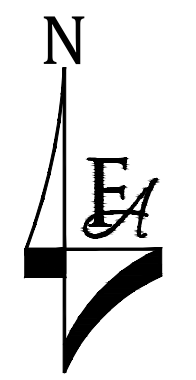
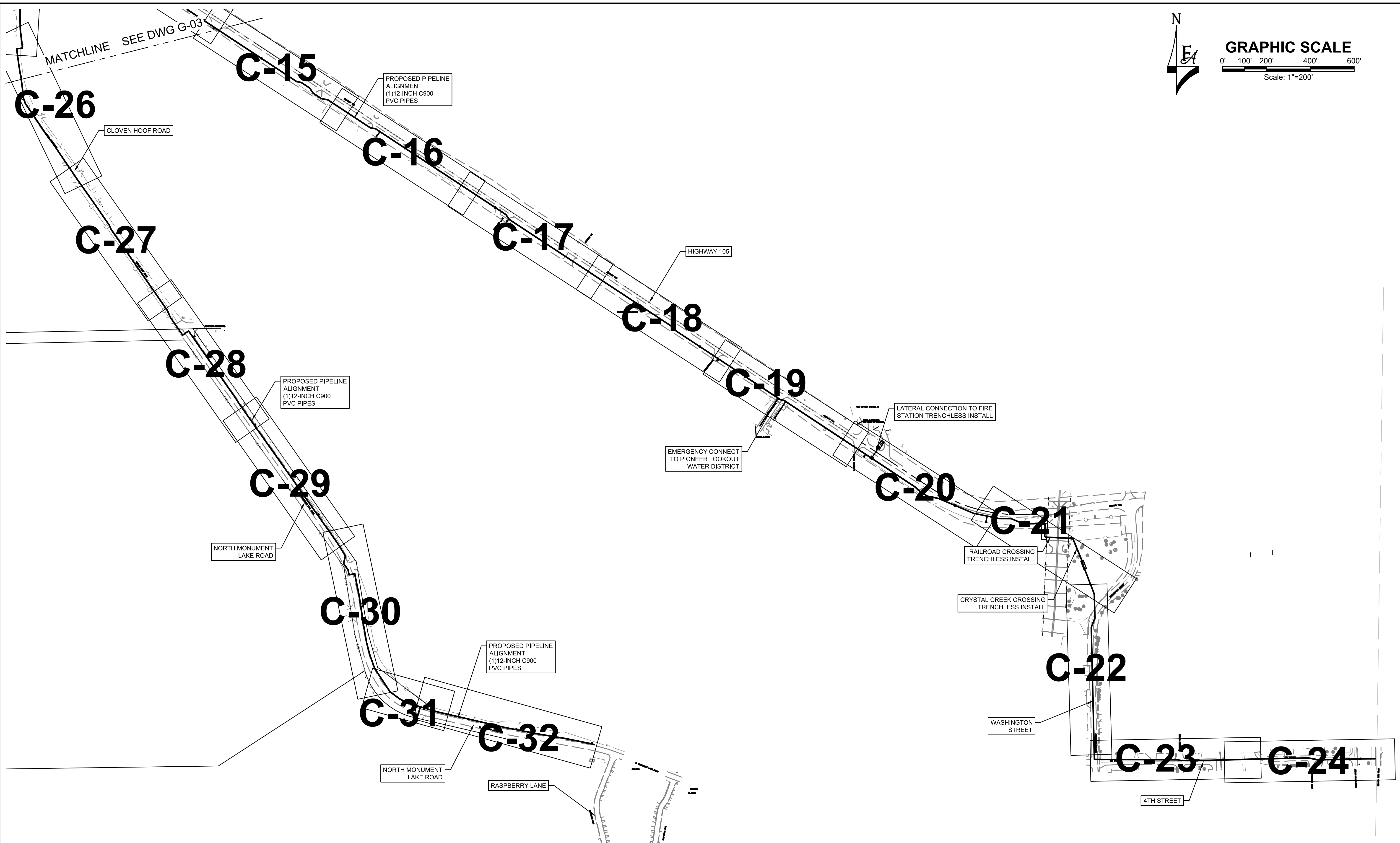


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PH: 720.232.6644



MONUMENT WATERLINE
KEY MAP - 1

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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\General\G-04 - KEY MAP - 2.dwg - 4/28/2022 2:47 PM

NO.	REVISIONS	BY	DATE

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DESIGNED	DESIGNED BY	_____
APPROVED	APPROVED BY	_____
QA	QA BY	_____

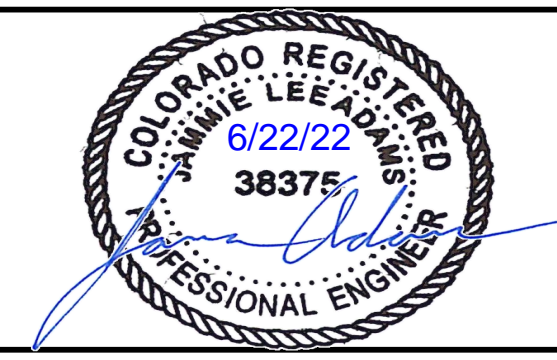
ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID



FORSGREN Associates Inc.

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



MONUMENT WATERLINE	
KEY MAP - 2	

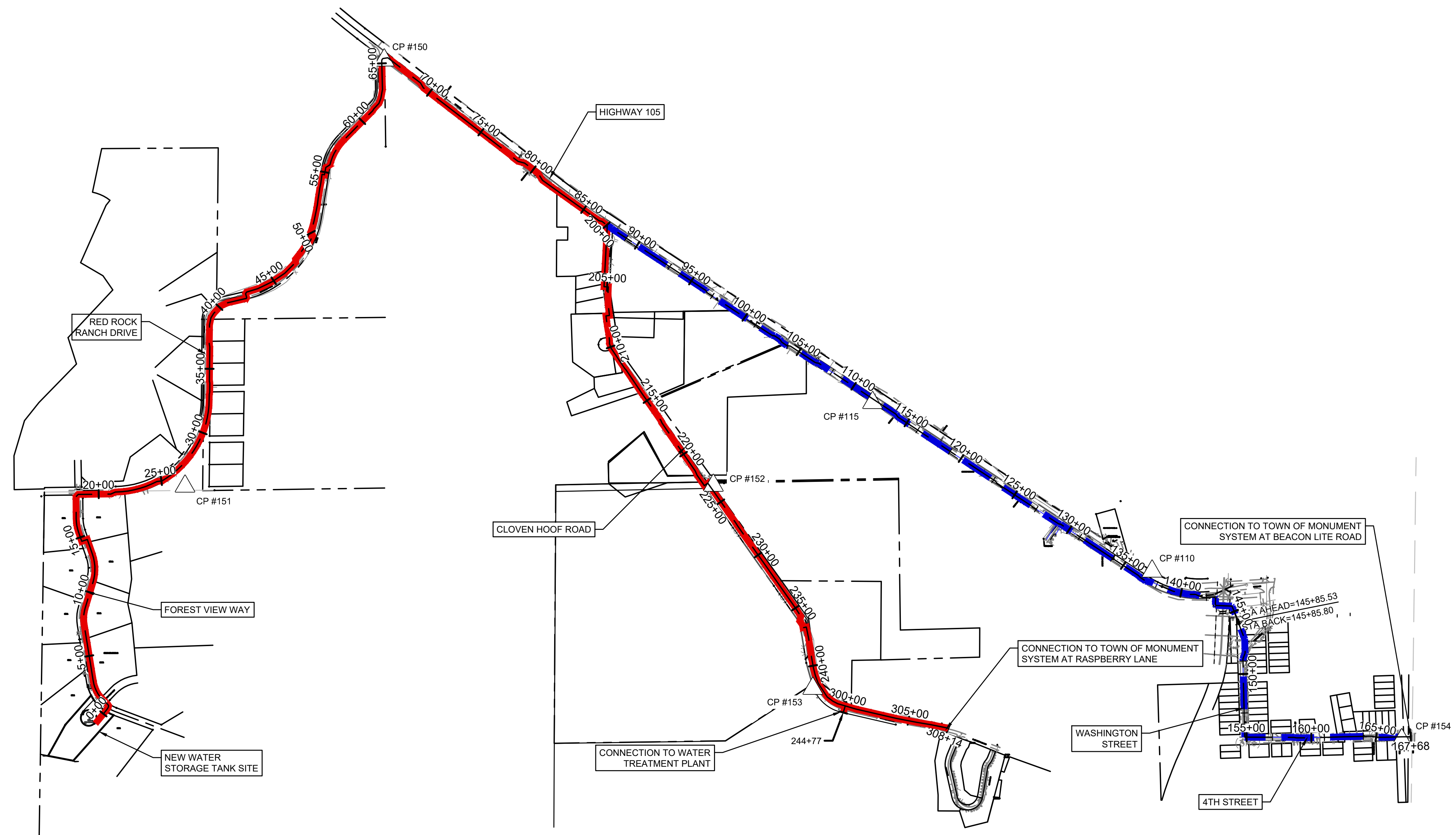
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PHASING LEGEND

- PHASE I
 PARALLEL PIPES
 STA 0+00 TO STA 87+00 ———
- SINGLE SUPPLY LINE
 STA 200+00 TO STA 247+00 ———
- STA 300+00 TO STA 308+14 ———
- PHASE II
 SINGLE RETURN LINE
 STA 87+00 TO STA 167+70 ———

PHASING NOTES:

1. PHASE 1 SHALL BE COMPLETED AND OPERATIONAL PRIOR TO START-UP AND COMMISSIONING OF THE NEW WATER STORAGE TANK (BY OTHERS). ANTICIPATED START-UP OF THE WATER STORAGE TANK IS JANUARY 30, 2023
2. CONTRACTOR SHALL COORDINATE WITH WATER STORAGE TANK CONTRACTOR FOR CONNECTION TO STORAGE TANK.
3. CONTRACTOR SHALL COORDINATE WITH WATER STORAGE TANK CONTRACTOR FOR COMMISSIONING AND START-UP OF THE NEW WATER STORAGE TANK.



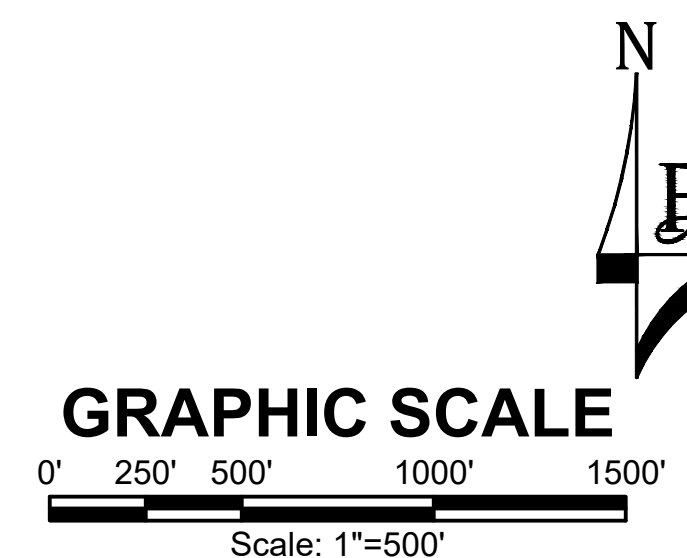
SURVEY CONTROL DATA

POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
150	1465758.075	3172710.430	7069.86 (NAVD 88)	3.25" ALUMINUM CAP "CDOT MP 7.4 #542"
151	1462473.388	3171175.657	7133.00 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
152	1462480.295	3175247.677	6947.57 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
153	1460915.673	3176013.847	6936.42 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
154	1460518.879	3180552.386	7018.01 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
115	1463118.253	3176474.552	6999.48 (NAVD 88)	3.25" ALUMINUM CAP "CDOT R.O.W."
110	1461819.218	3178628.362	6977.98 (NAVD 88)	3.25" ALUMINUM CAP "CDOT R.O.W."

COORDINATE SYSTEM: NAD83 (2011)
 STATE PLANE ZONE: COLORADO CENTRAL ZONE 0502
 UNITS: US SURVEY FEET
 GEOID MODEL: GEOID18

PROJECT COORDINATES SHOWN HEREON ARE MODIFIED STATE PLANE GROUND COORDINATES
 GRID TO GROUND COMBINED SCALE FACTOR: 1.0004129397
 GROUND TO GRID COMBINED SCALE FACTOR: 0.9995872307

FALSE NORTHING: 0.0
 FALSE EASTING: 0.0



GENERAL CONSTRUCTION NOTES:

1. INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
2. ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEDED.

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\General\PHASING MAP.dwg - 5/11/2022 2:20 PM

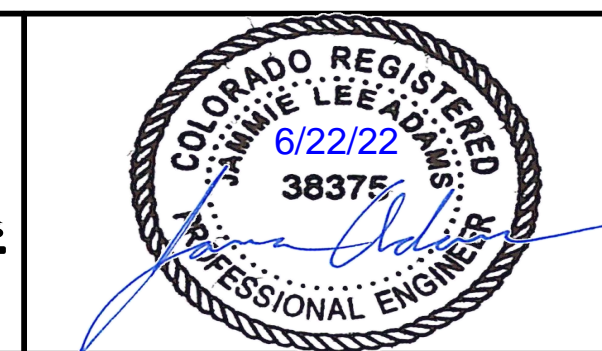
NO.	REVISIONS	BY	DATE

DRAWN S. CALE
 DESIGNED DESIGNED BY
 APPROVED APPROVED BY
 QA QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

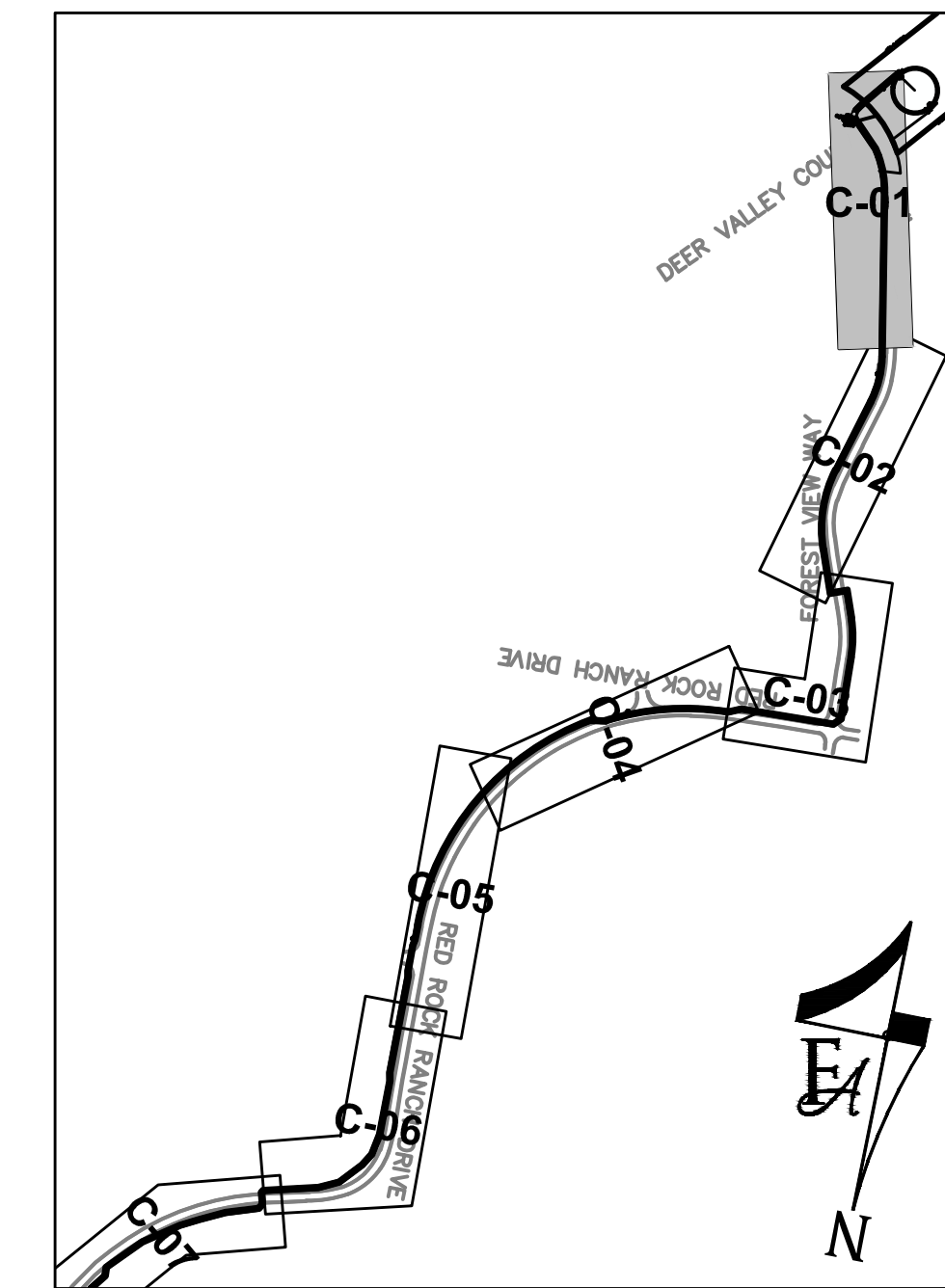
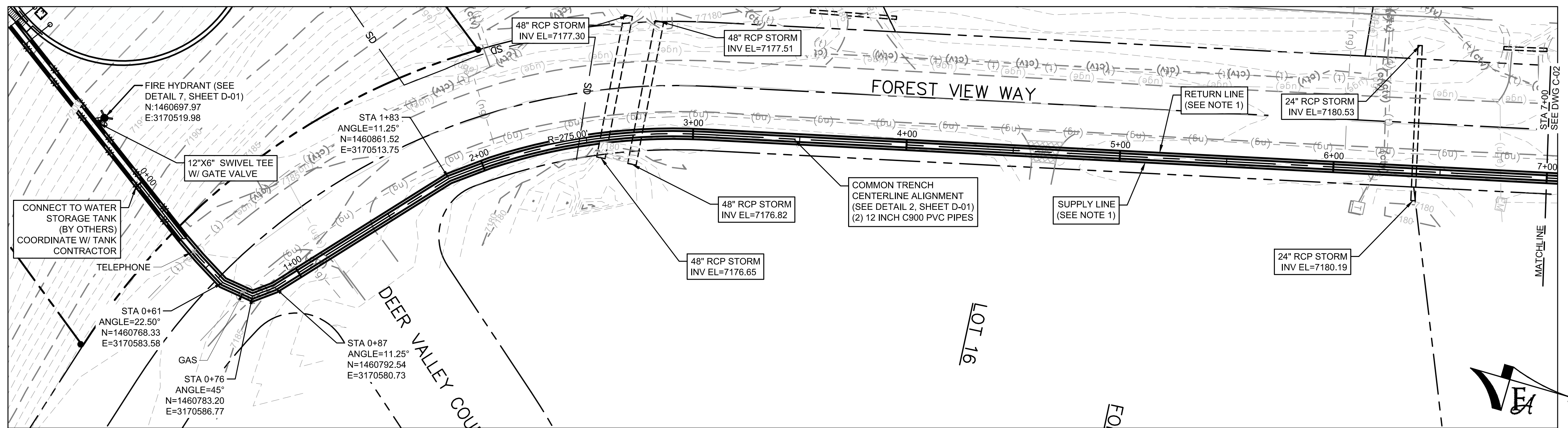


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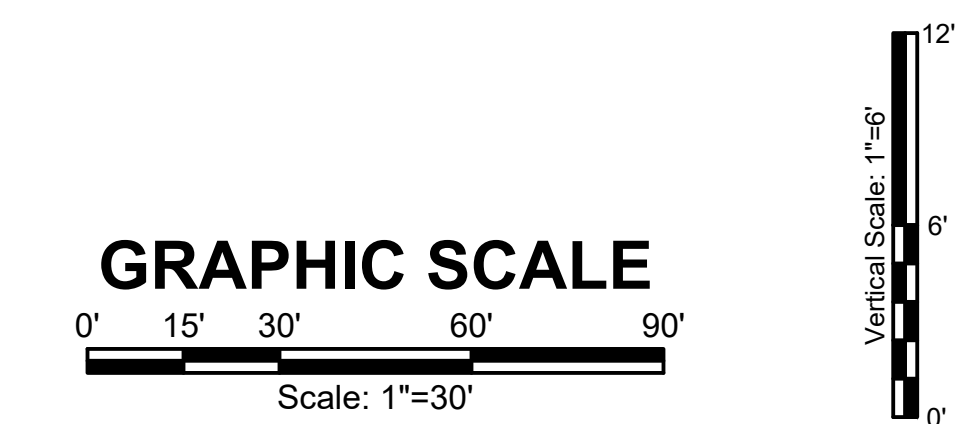
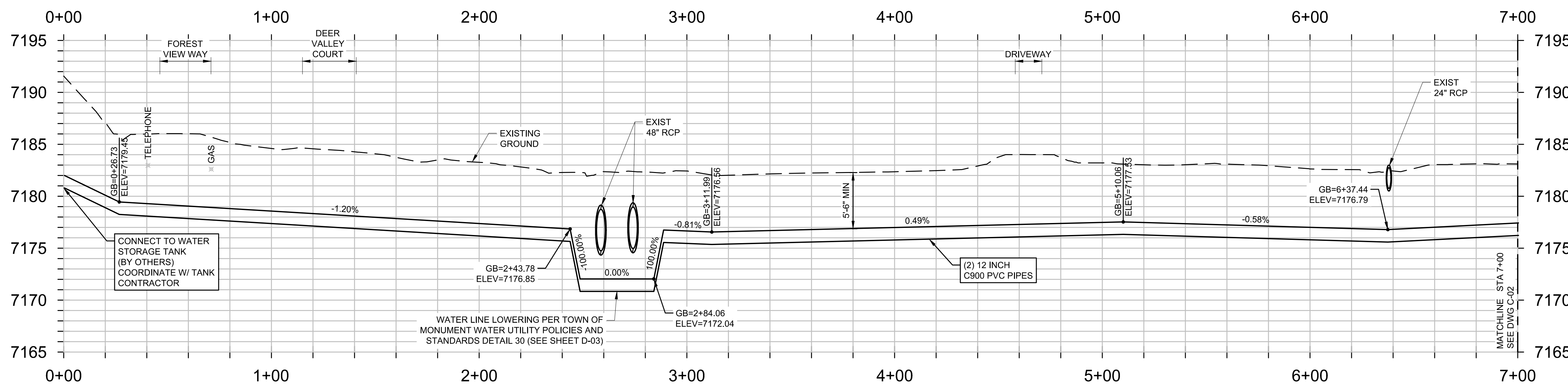
MONUMENT WATERLINE
PHASING MAP

PROJECT NO: 04-20-0153	PAGE NO: 5 OF 45
SHEET NO: G-05	DATE: MAY, 2022



GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
- CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED STORMWATER MANAGEMENT AND EROSION CONTROL PERMITS AND APPROVALS.
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NO.	REVISIONS	BY	DATE

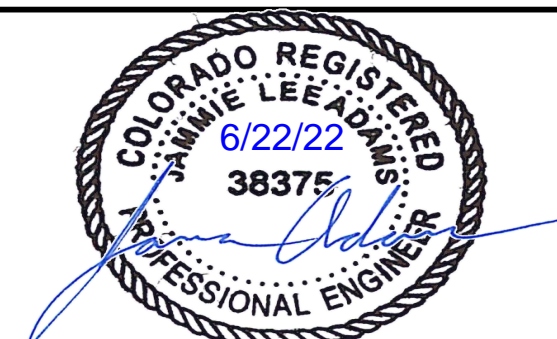
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DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

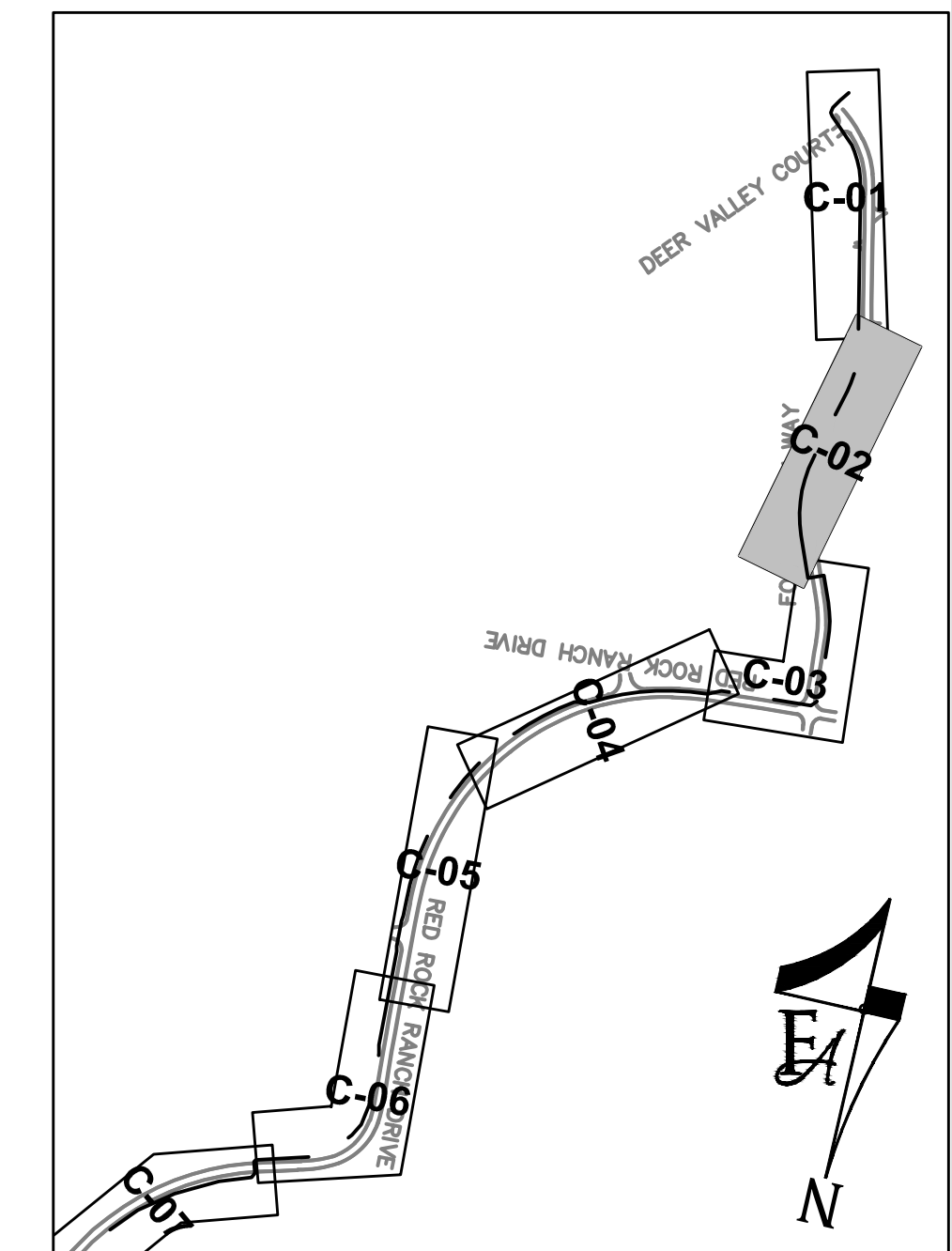
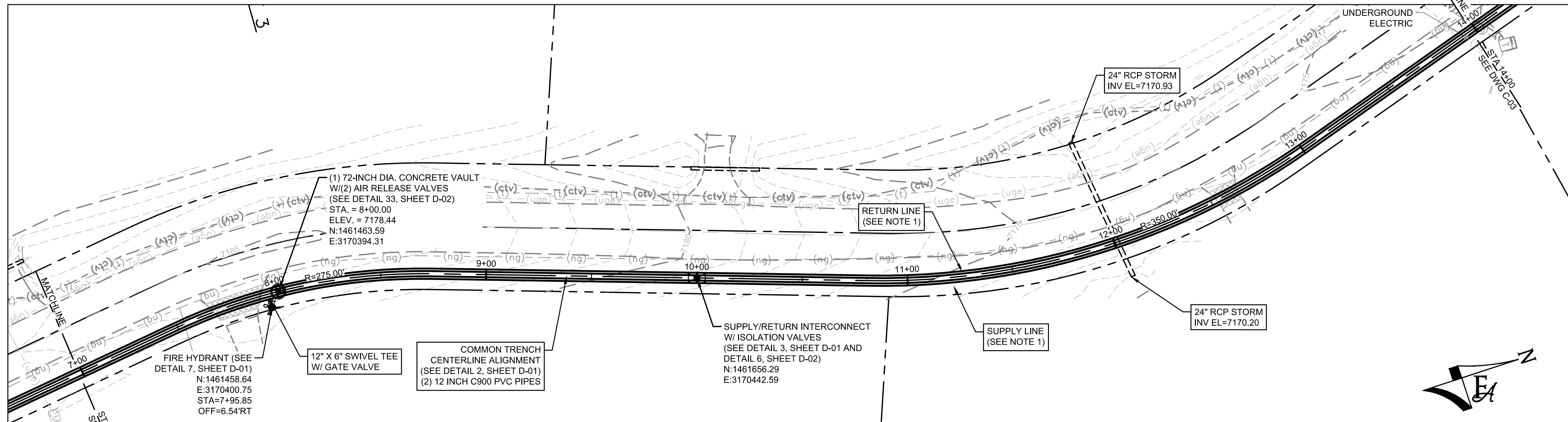


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PH: 720.232.6644

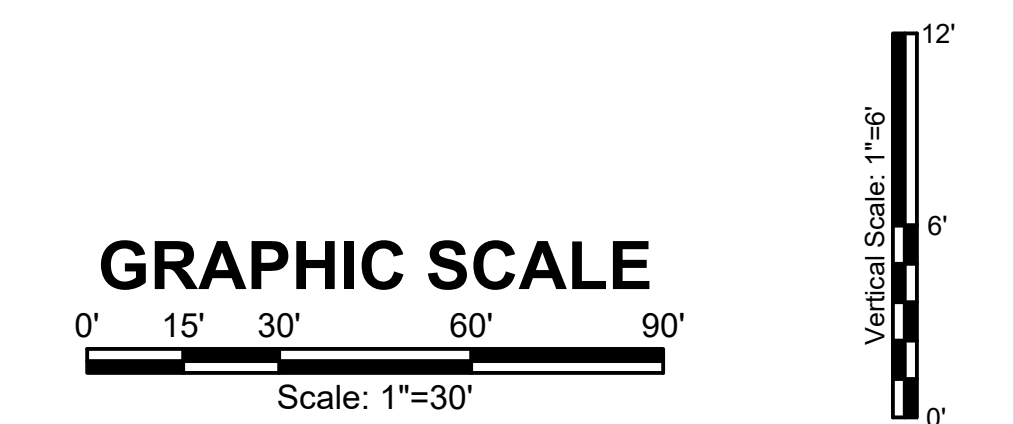
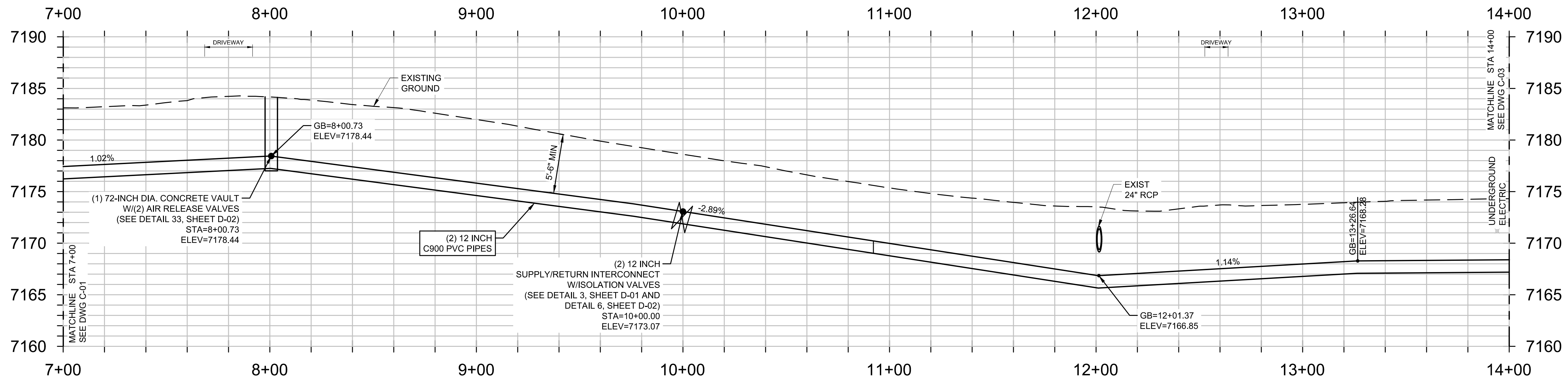


MONUMENT WATERLINE
PLAN AND PROFILE - STA 0+00 TO STA 7+00

PROJECT NO: 04-20-0153	PAGE NO: 6 OF 45
SHEET NO: C-01	DATE: MAY, 2022



- GENERAL CONSTRUCTION NOTES:**
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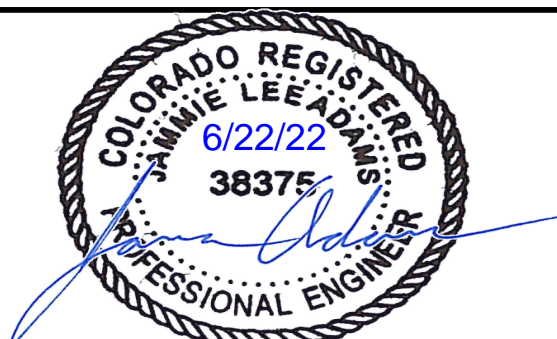
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
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AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

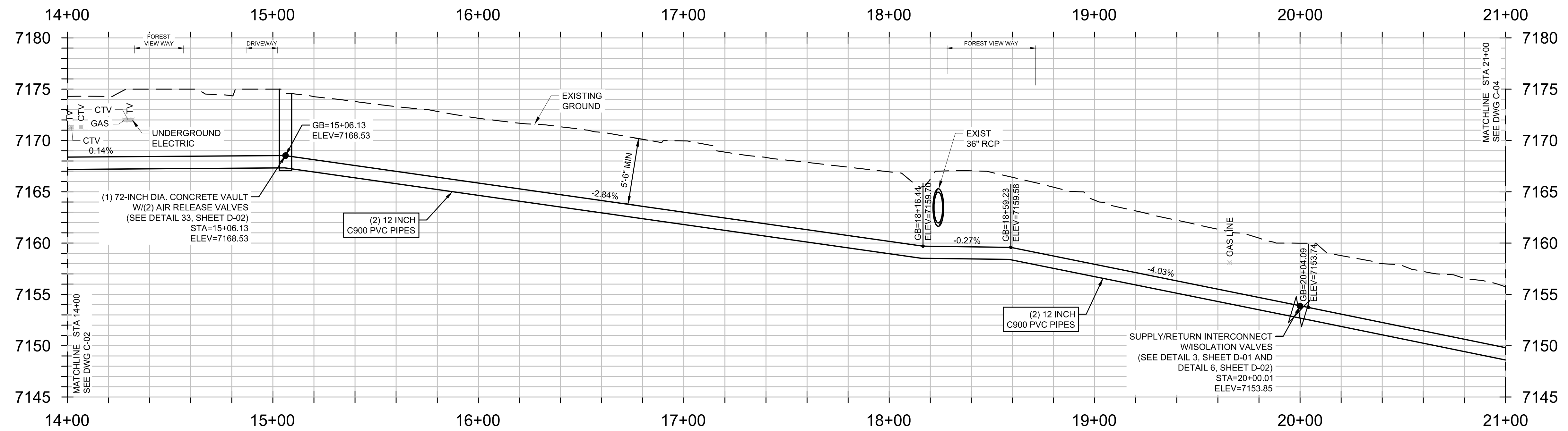
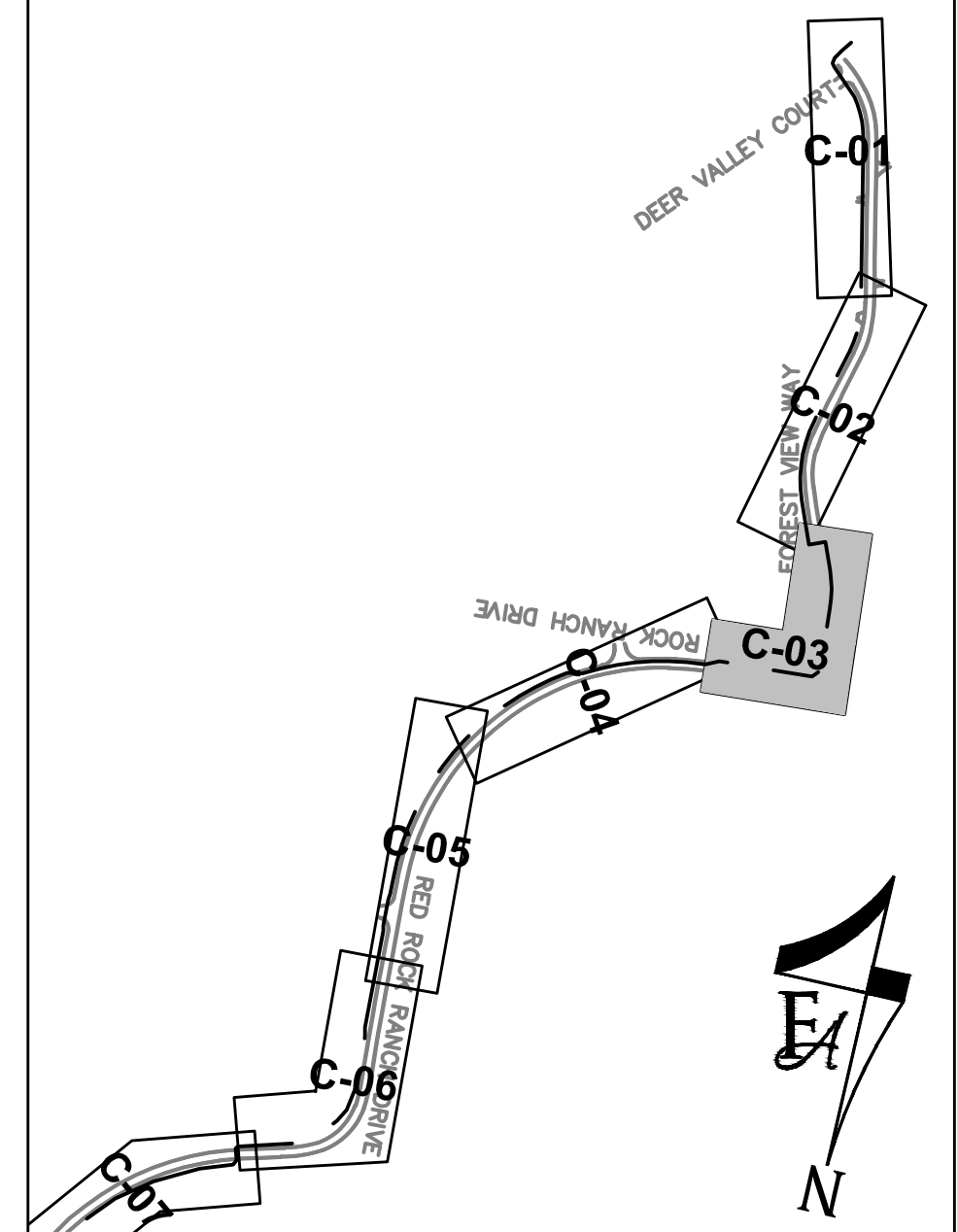
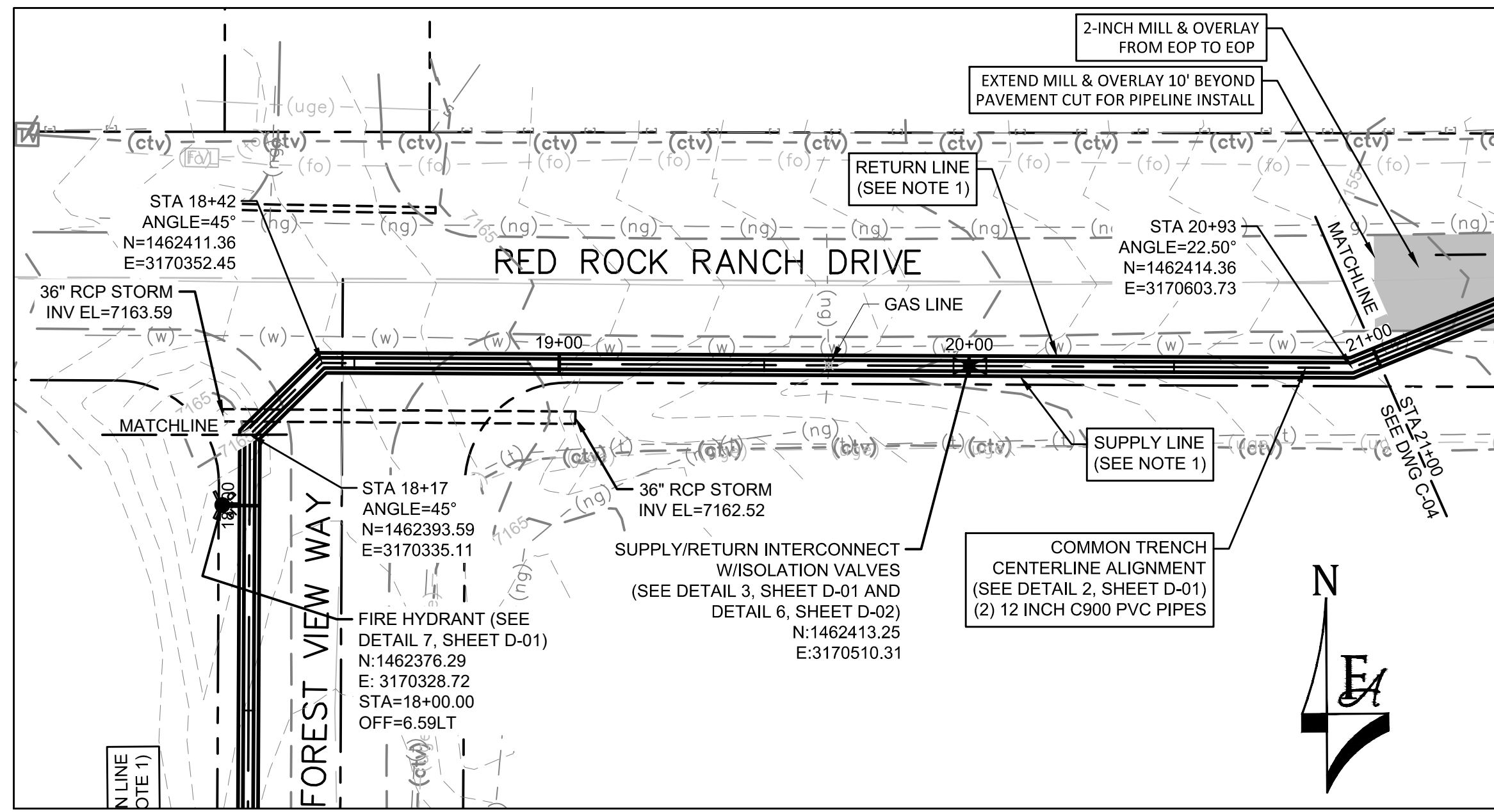
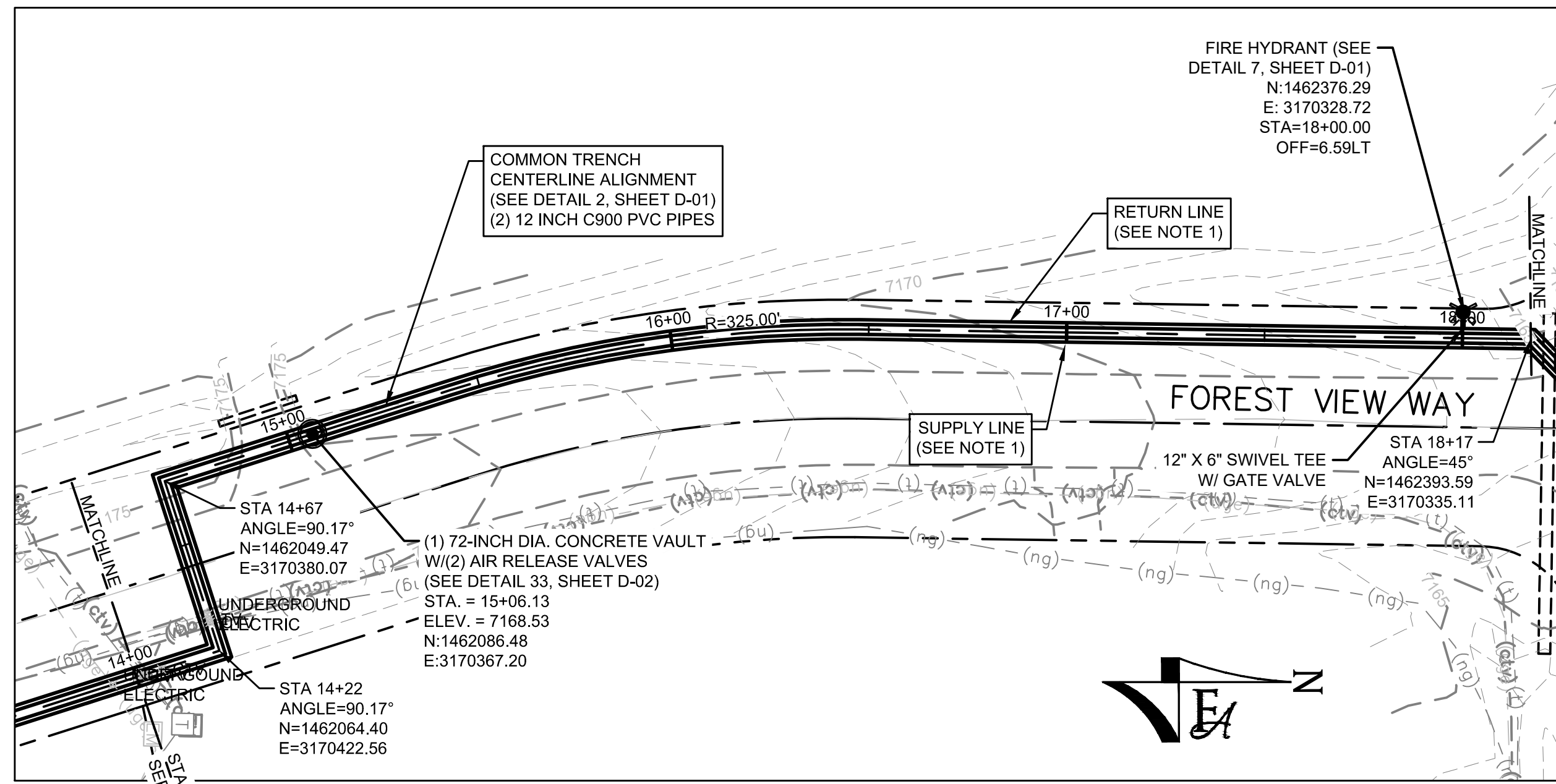


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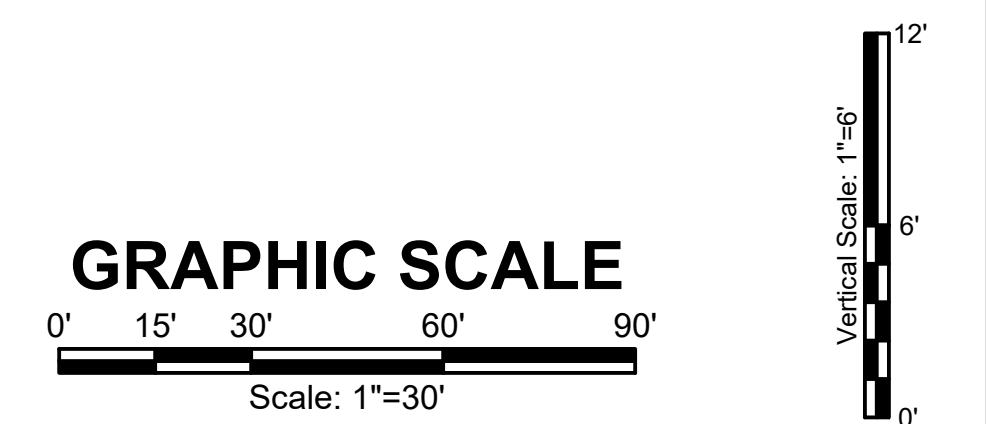


MONUMENT WATERLINE
PLAN AND PROFILE - STA 7+00 TO STA 14+00

PROJECT NO: 04-20-0153
SHEET NO: C-02
DATE: MAY, 2022
PAGE NO: 7 OF 45



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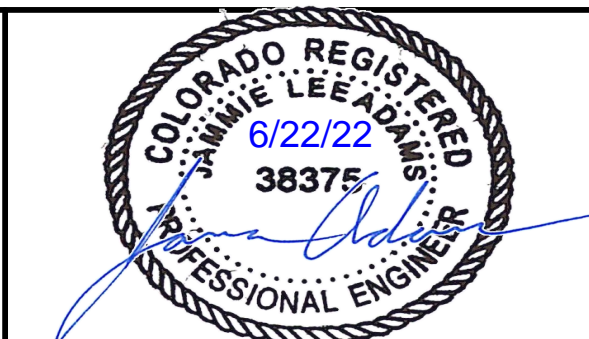
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NO.	REVISIONS	BY	DATE

DRAWN _____ S. CALE
 DESIGNED _____ DESIGNED BY
 APPROVED _____ APPROVED BY
 QA _____ QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID



MONUMENT WATERLINE

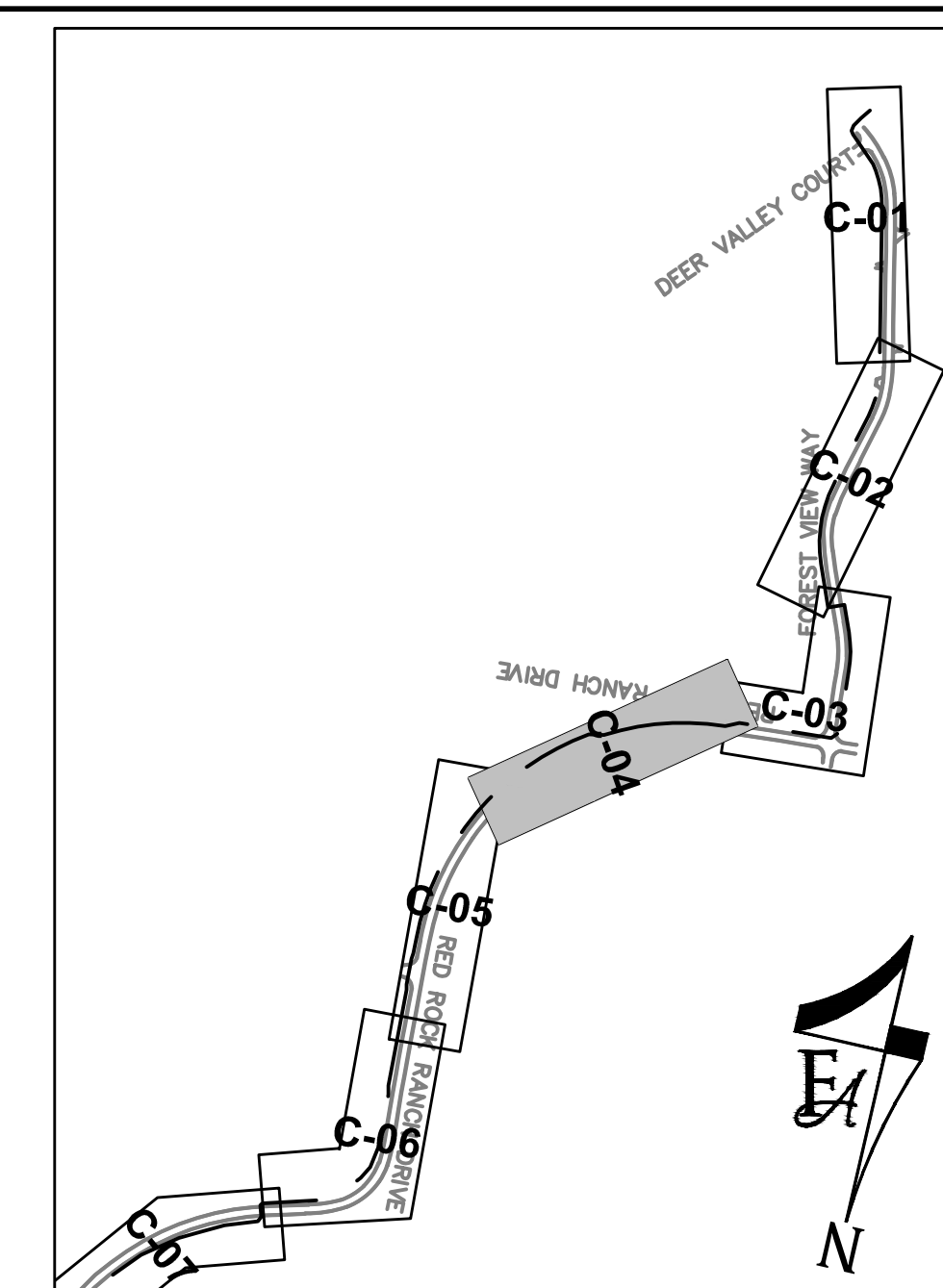
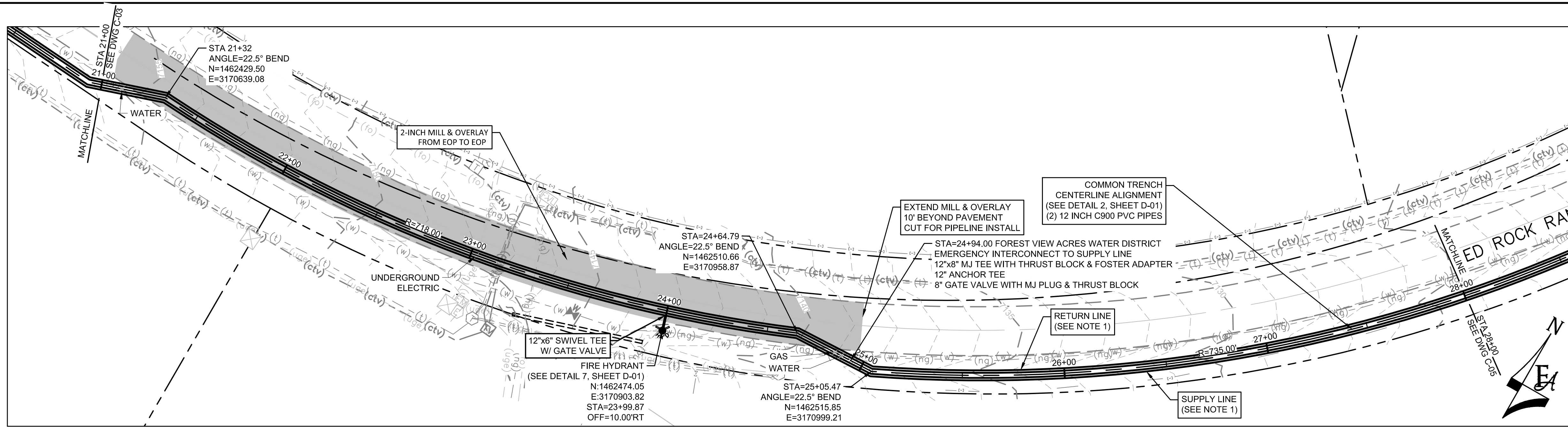
PLAN AND PROFILE -
STA 14+00 TO STA 21+00

PROJECT NO:
04-20-0153

SHEET NO:
C-03

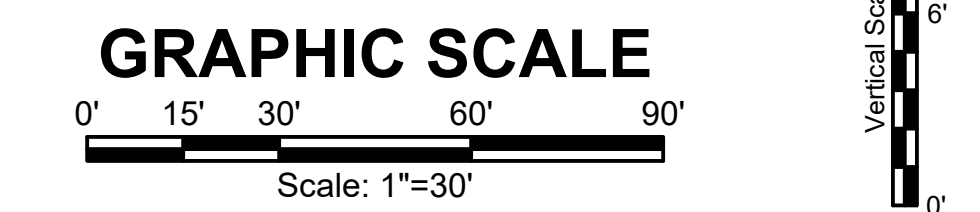
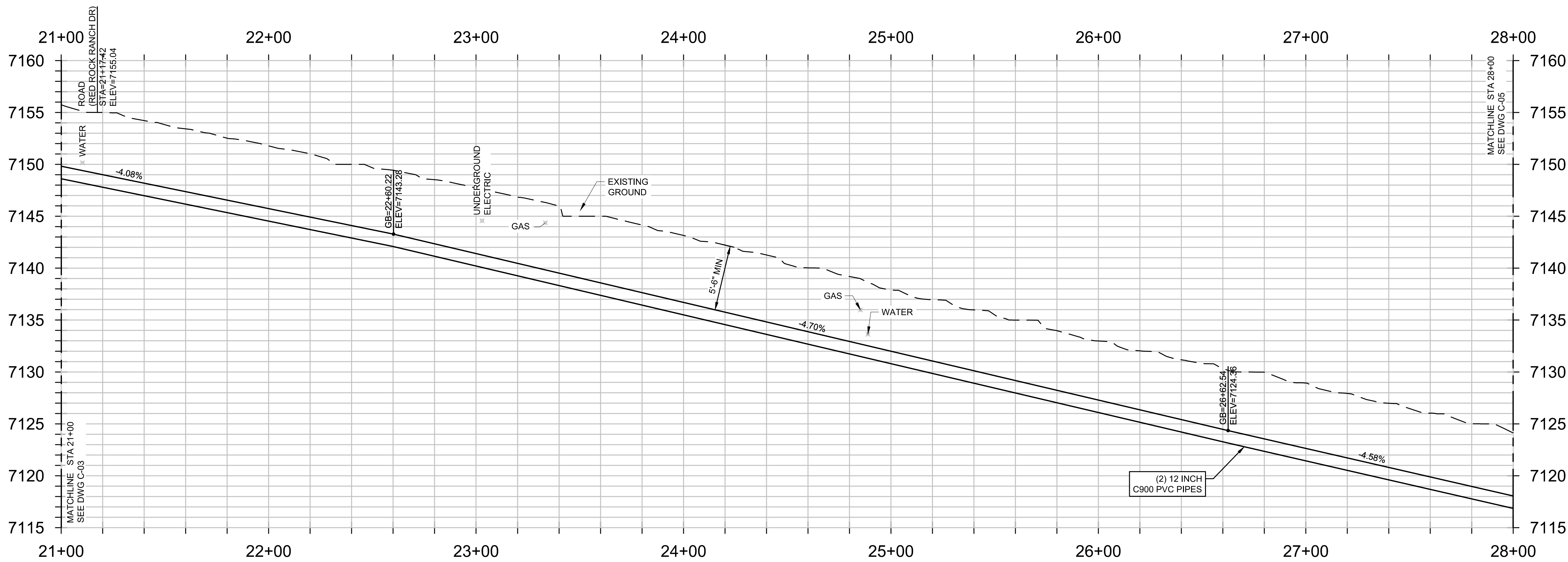
DATE:
 MAY, 2022

PAGE NO:
 8 OF 45



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

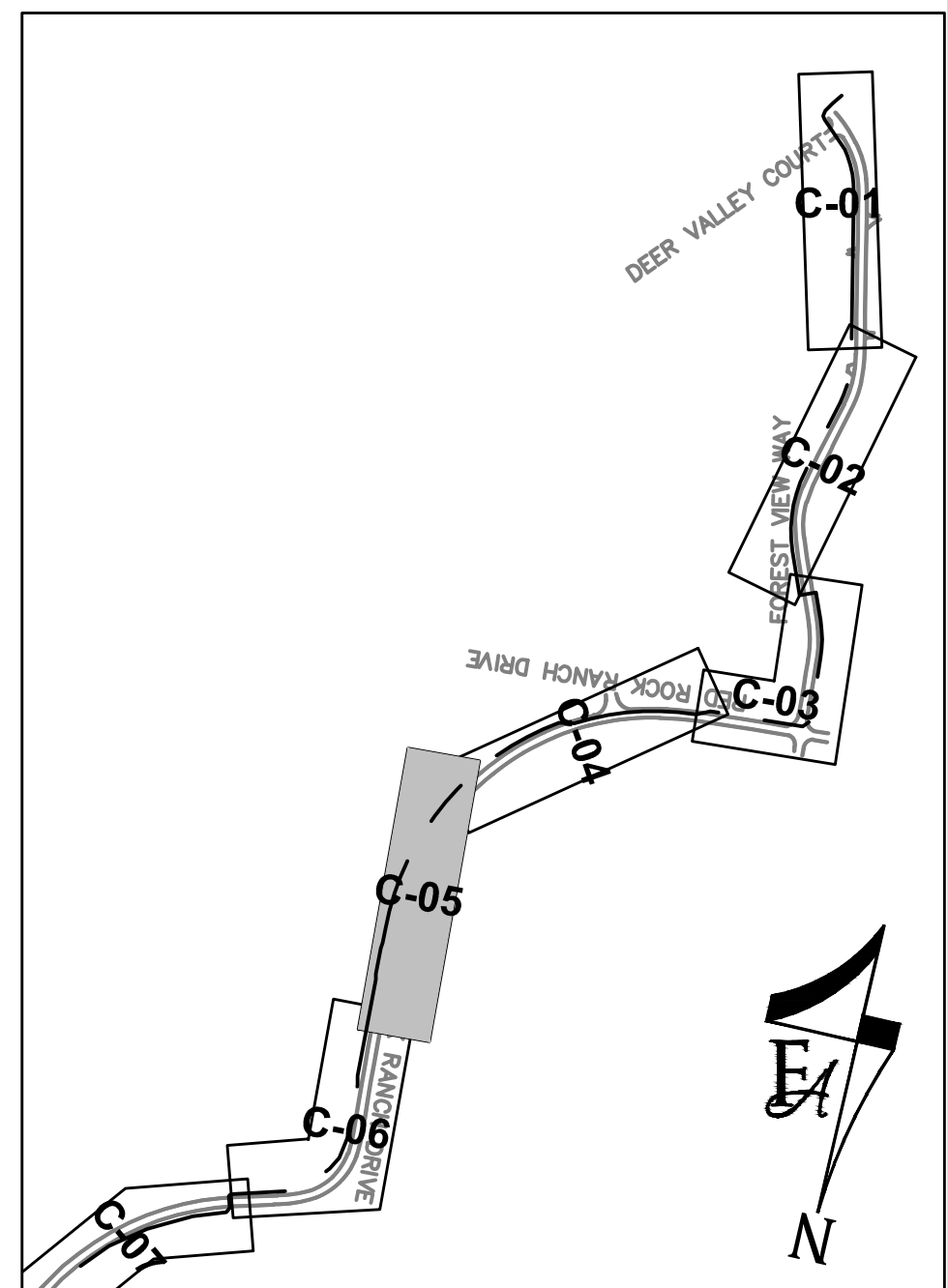
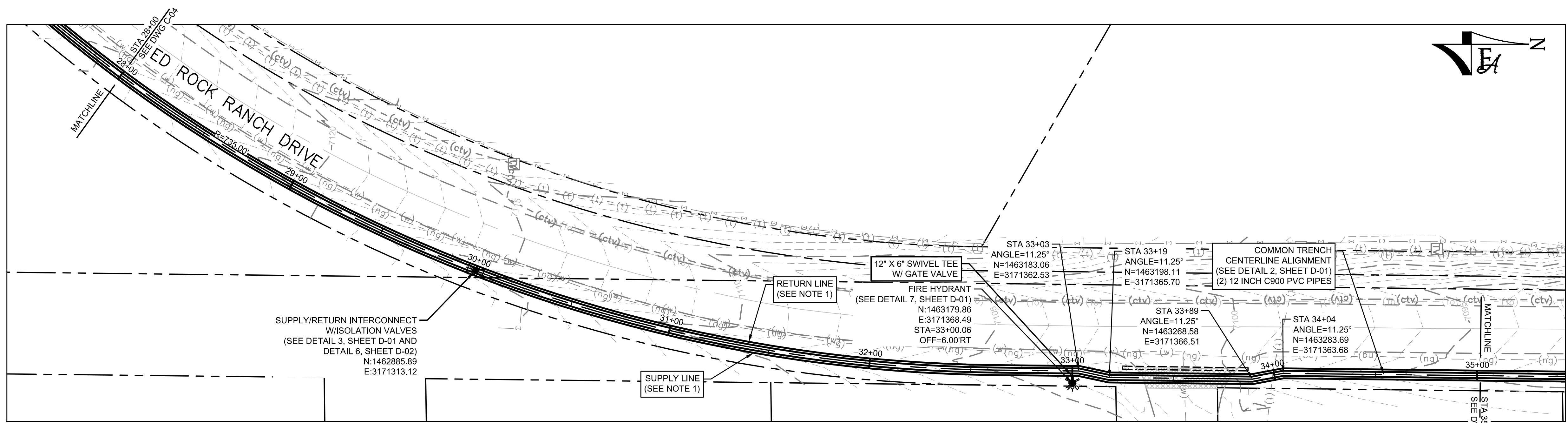


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PH: 720.232.6644



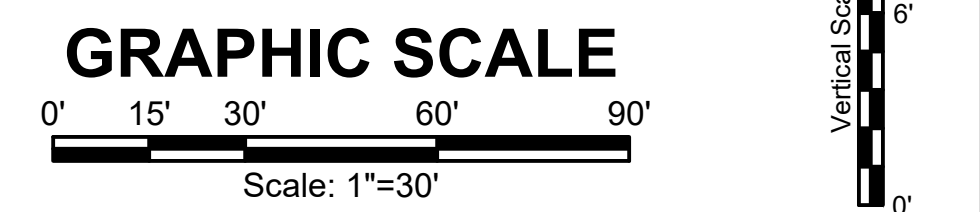
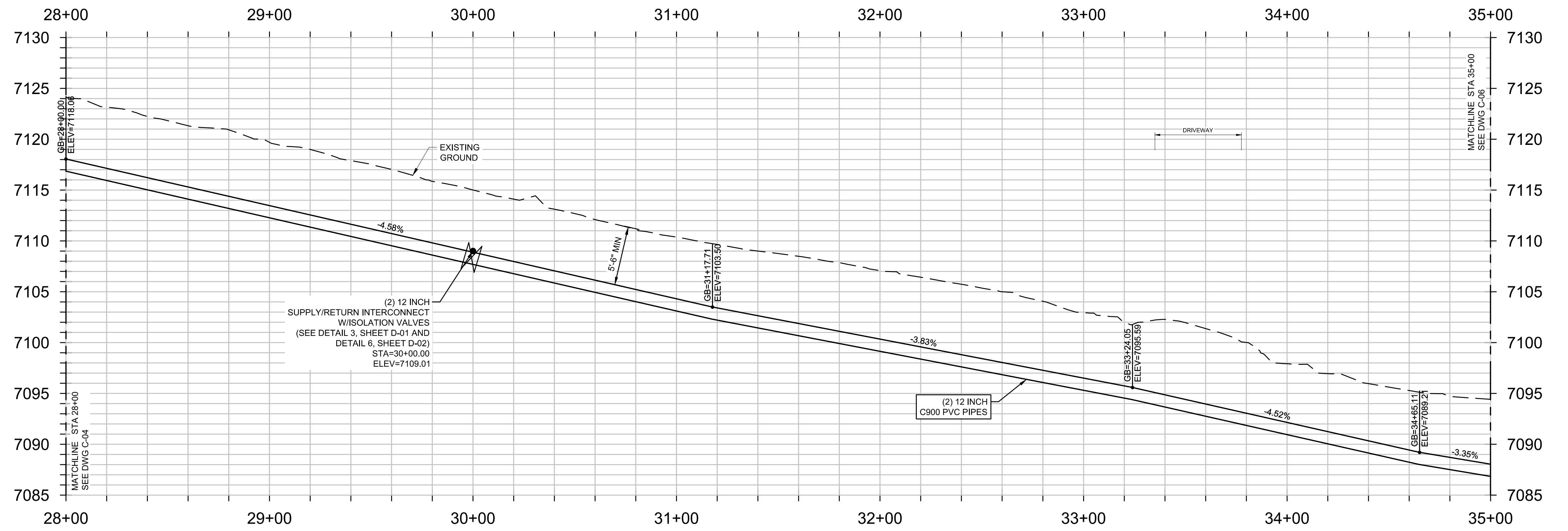
MONUMENT WATERLINE
PLAN AND PROFILE - STA 21+00 TO STA 28+00

PROJECT NO: 04-20-0153	PAGE NO: 9 OF 45
SHEET NO: C-04	DATE: MAY, 2022



GENERAL CONSTRUCTION NOTES:

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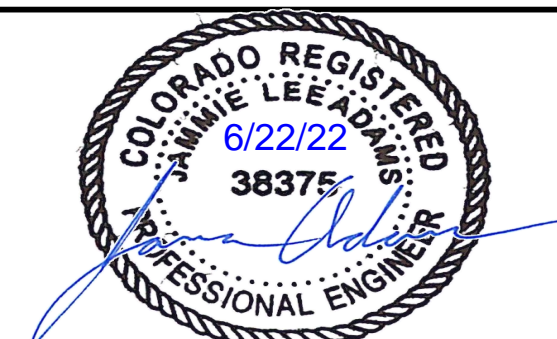
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
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AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

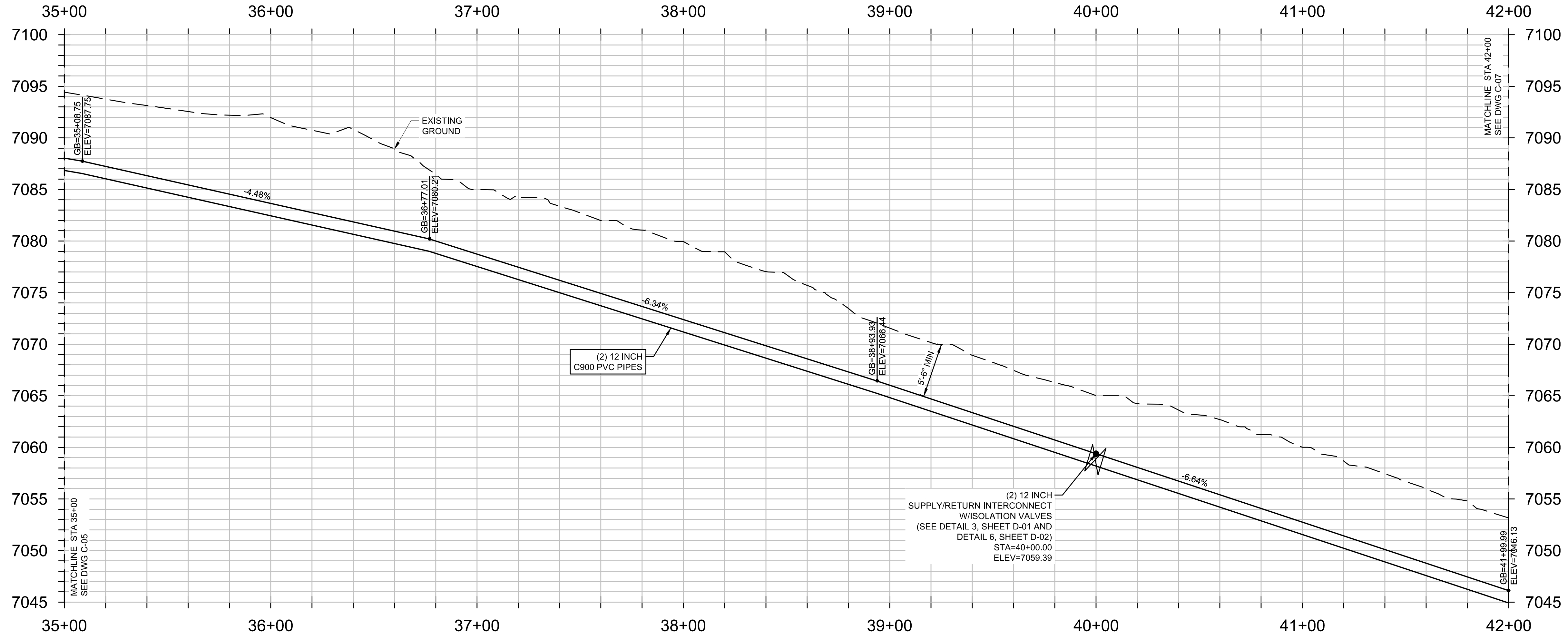
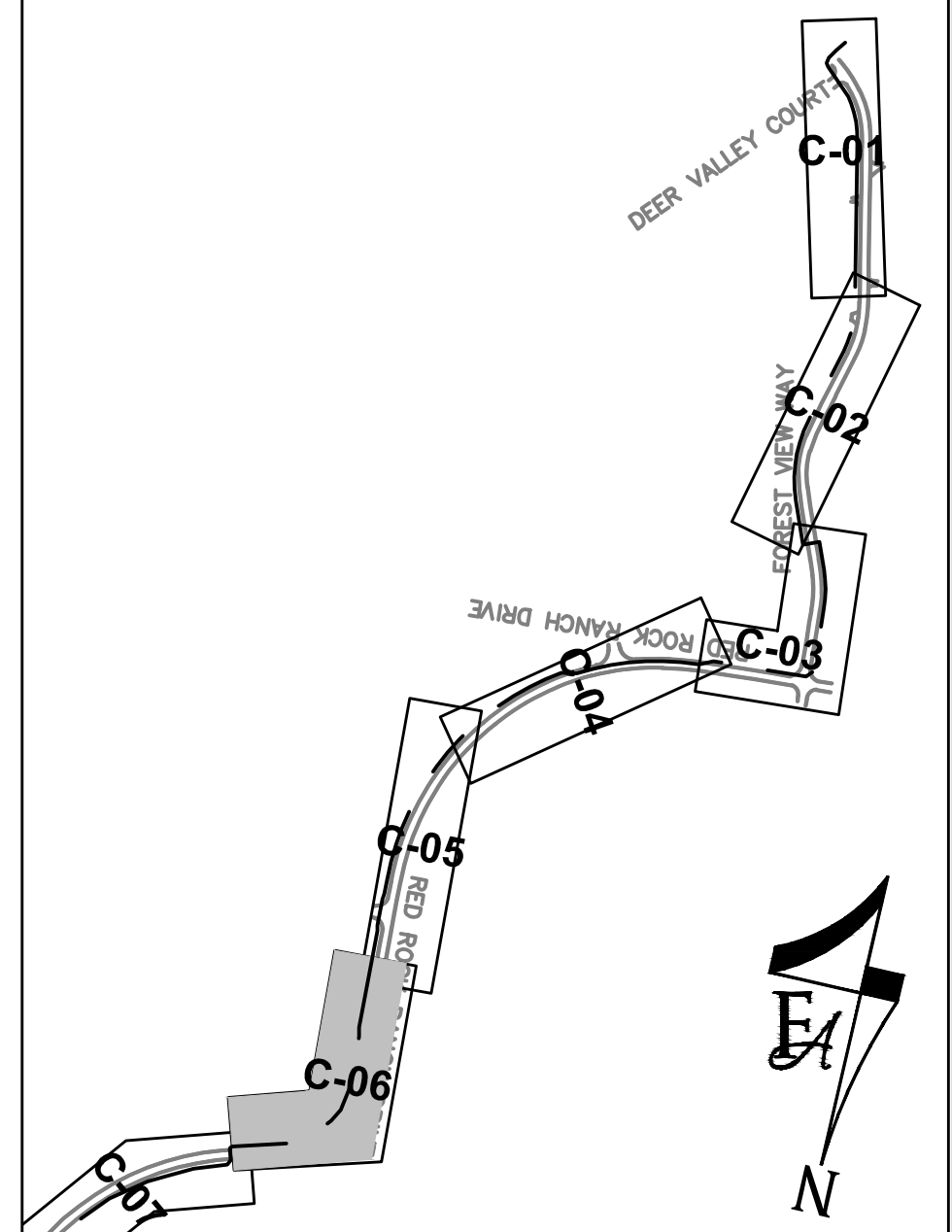
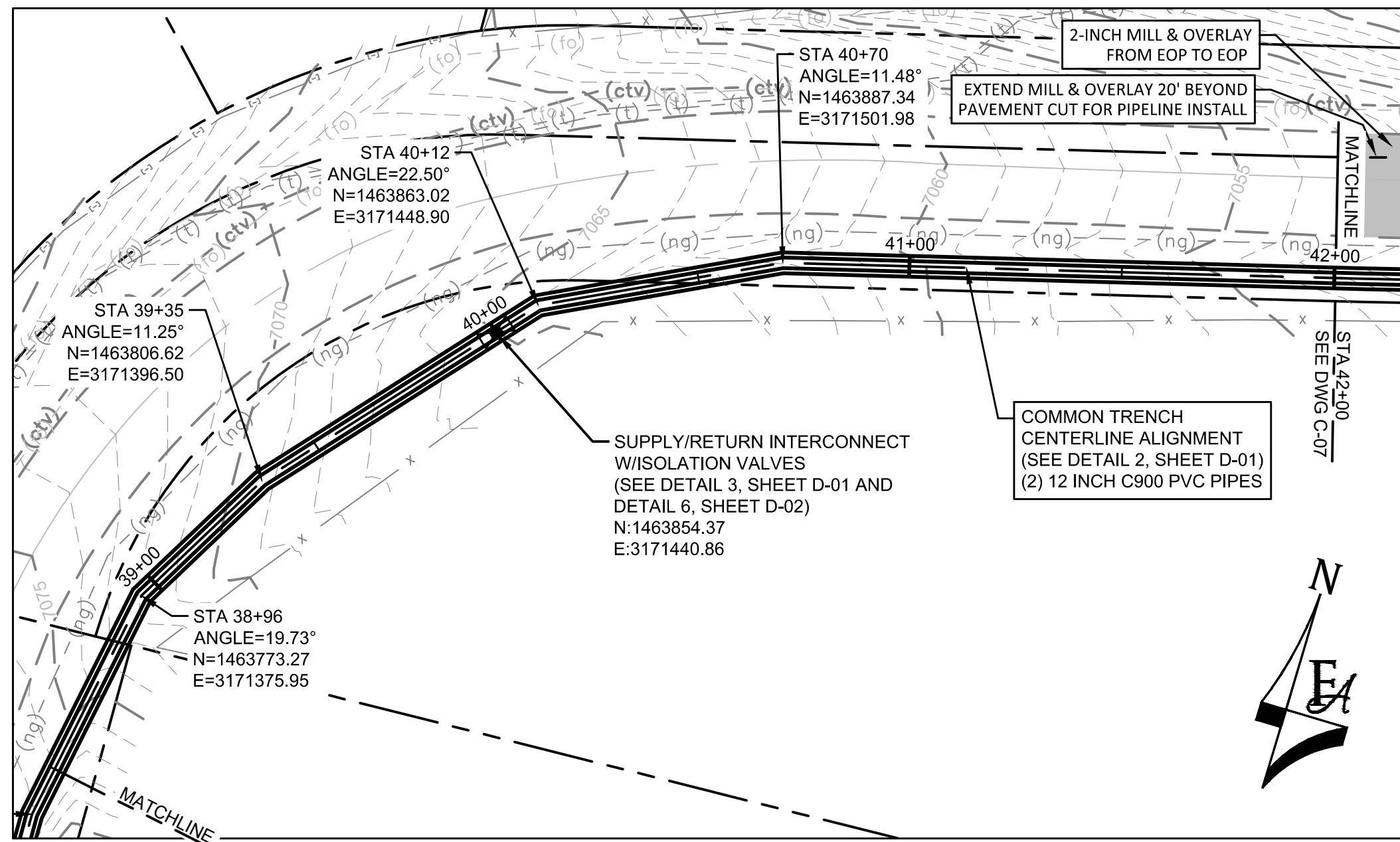
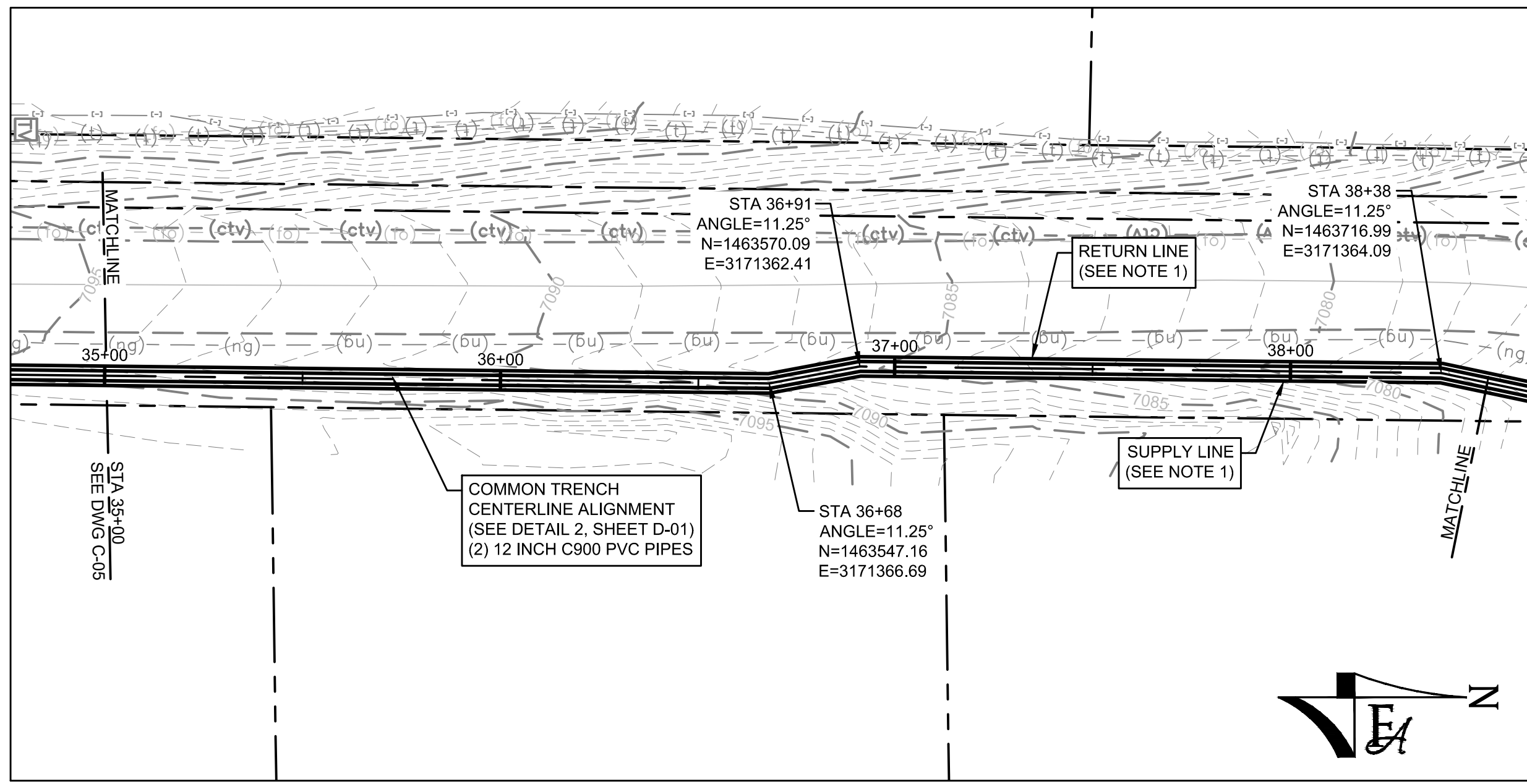


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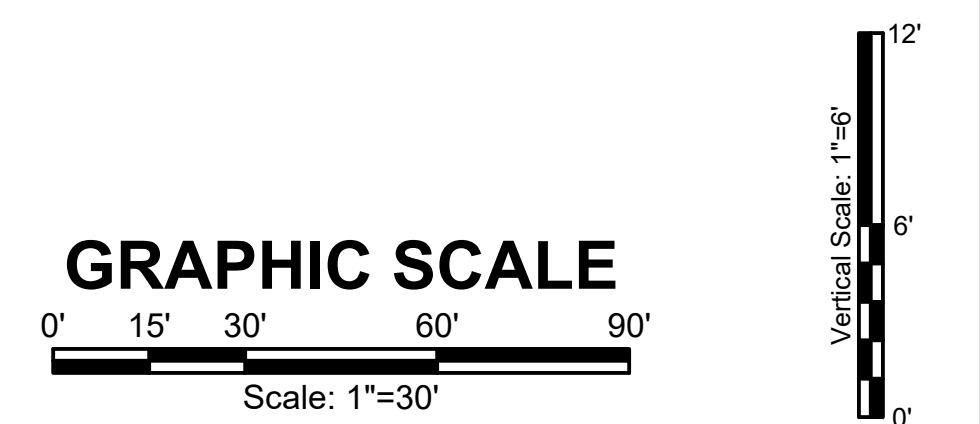


MONUMENT WATERLINE
PLAN AND PROFILE - STA 28+00 TO STA 35+00

PROJECT NO: 04-20-0153	PAGE NO: 10 OF 45
SHEET NO: C-05	DATE: MAY, 2022



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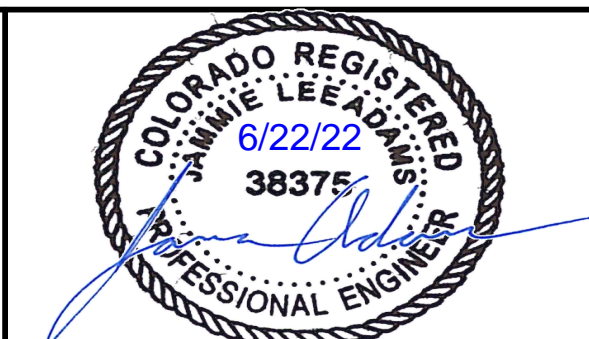
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NO.	REVISIONS	BY	DATE

DRAWN _____ S. CALE
 DESIGNED _____ DESIGNED BY
 APPROVED _____ APPROVED BY
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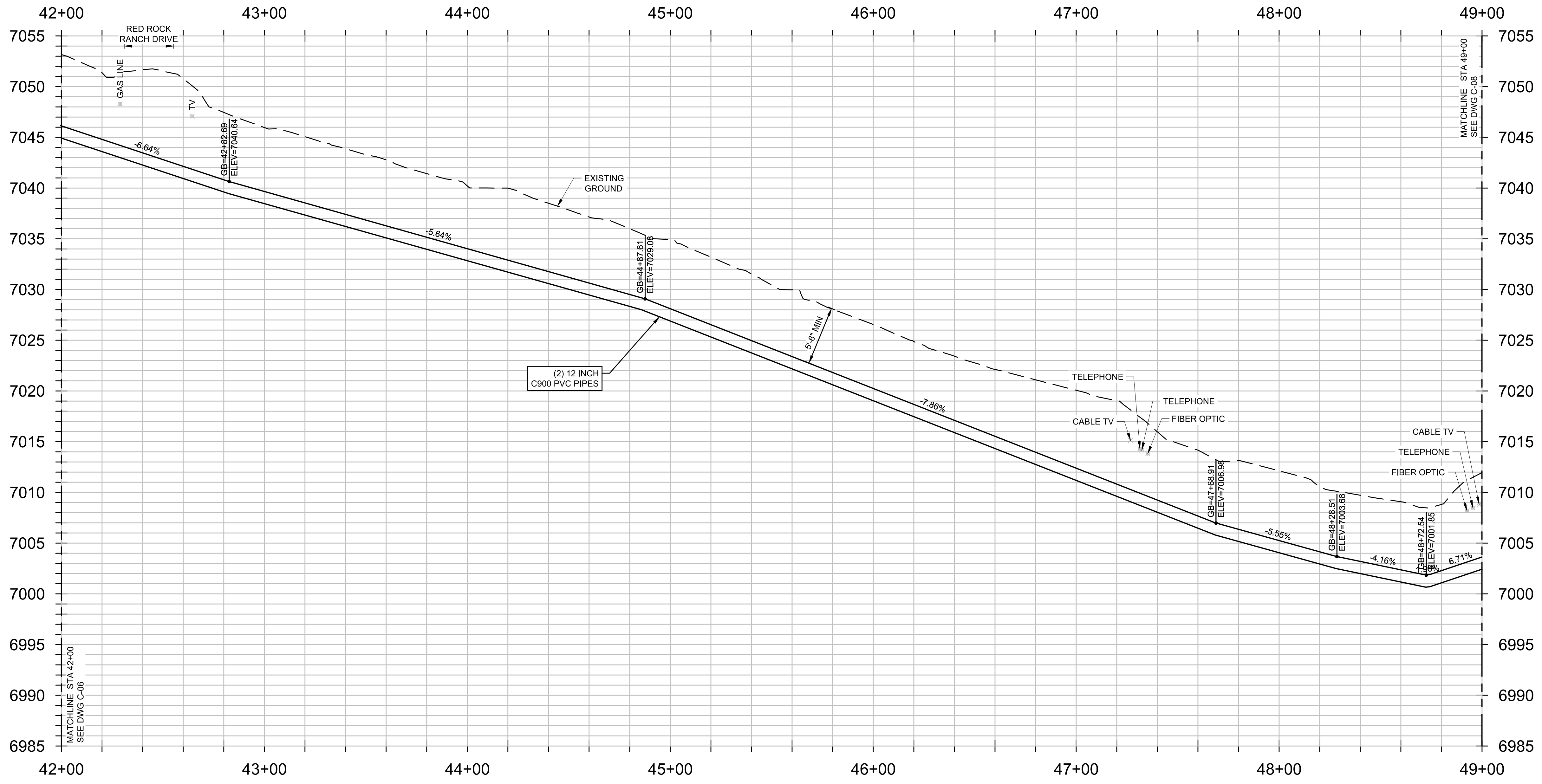
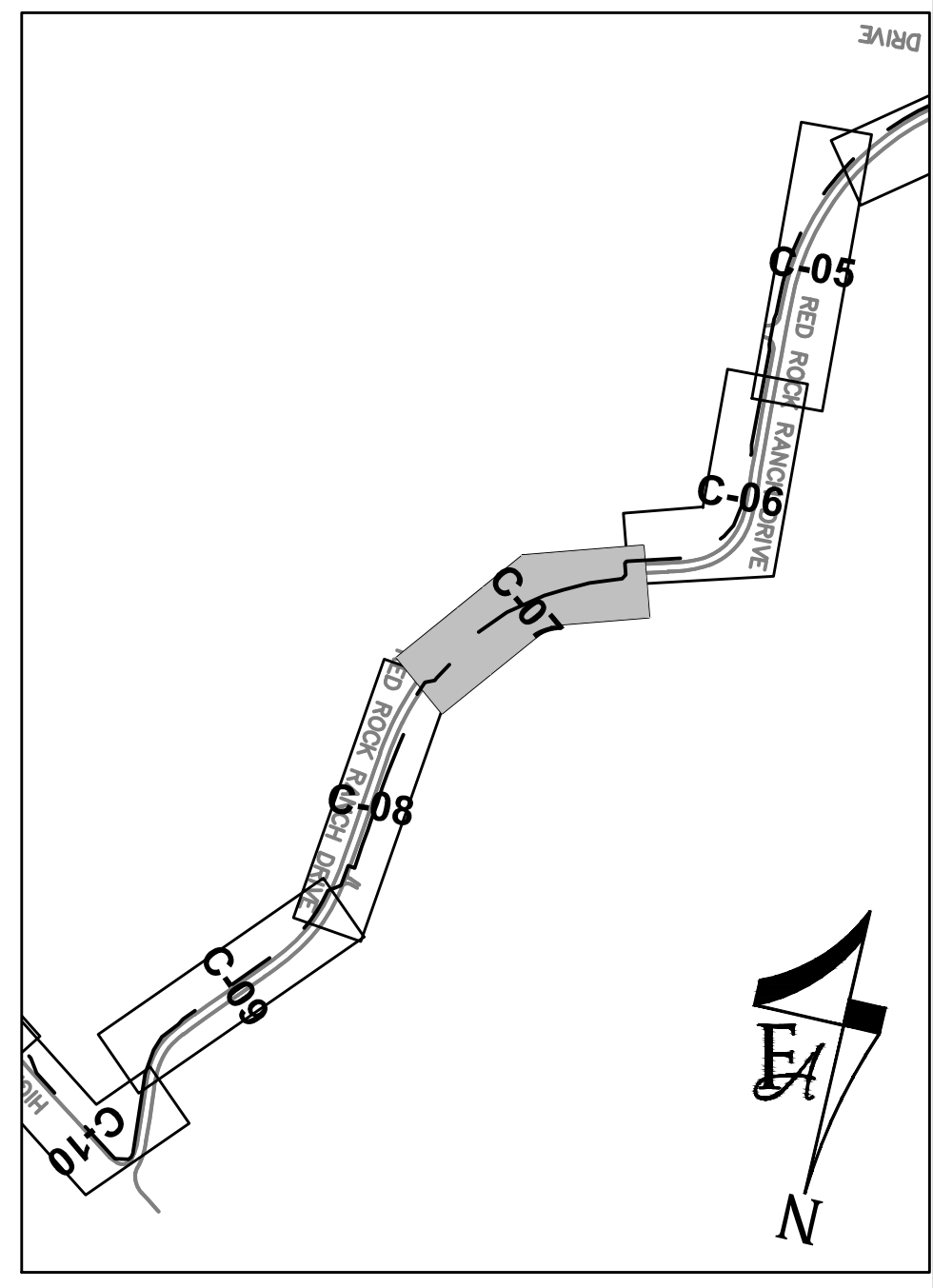
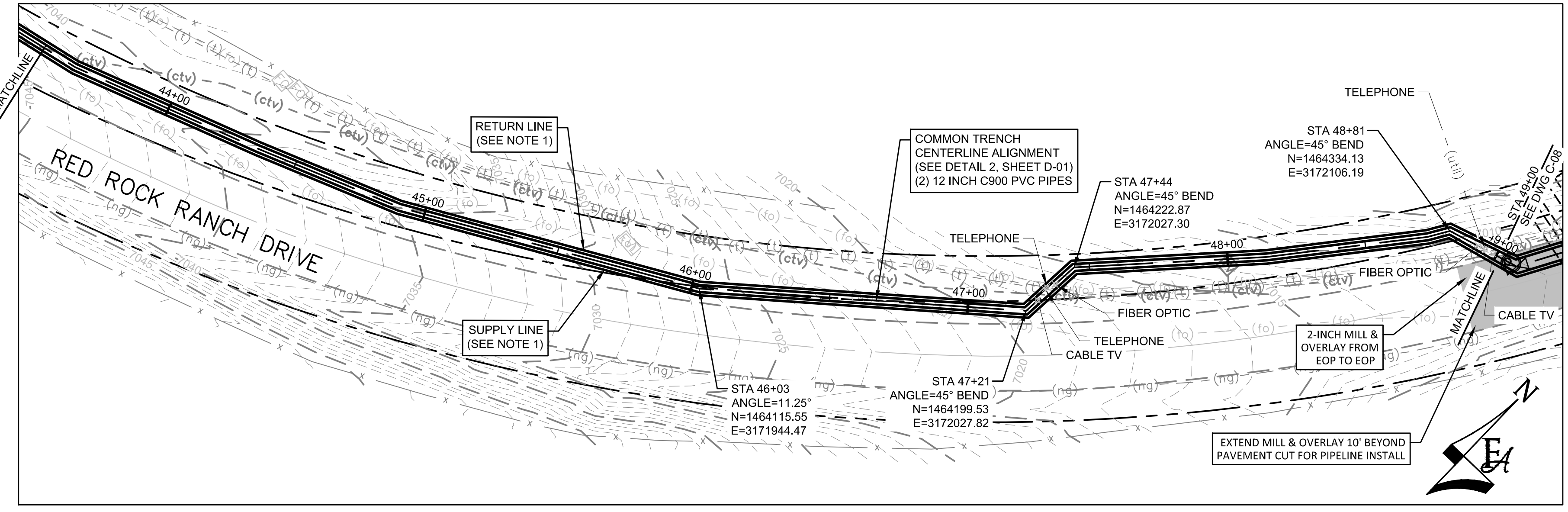
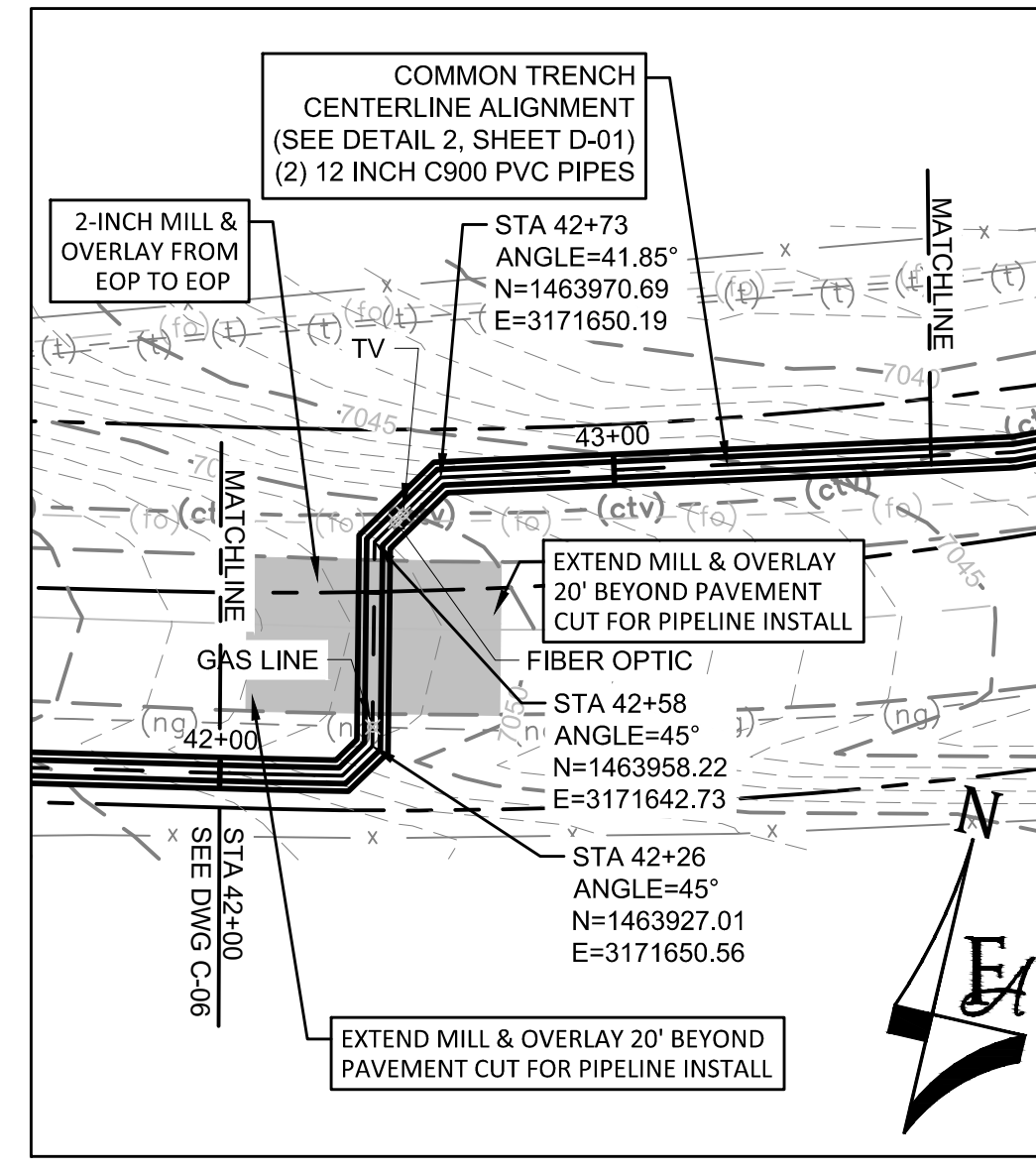


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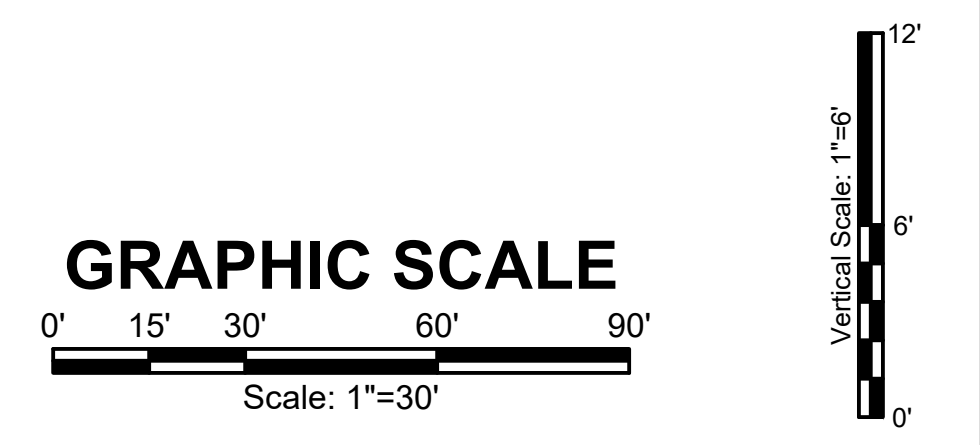


MONUMENT WATERLINE
PLAN AND PROFILE - STA 35+00 TO STA 42+00

PROJECT NO: **04-20-0153**
 SHEET NO: **C-06**
 DATE: MAY, 2022
 PAGE NO: 11 OF 45



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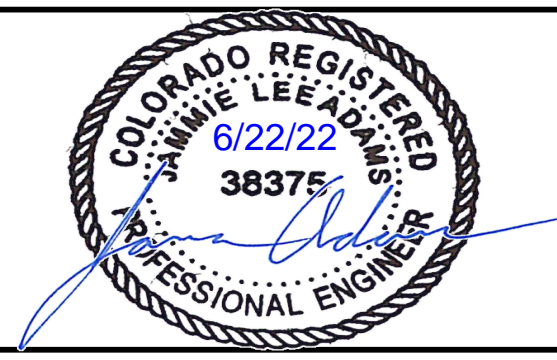
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 APPROVED _____ APPROVED BY
 QA _____ QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

**ISSUED
 FOR BID**

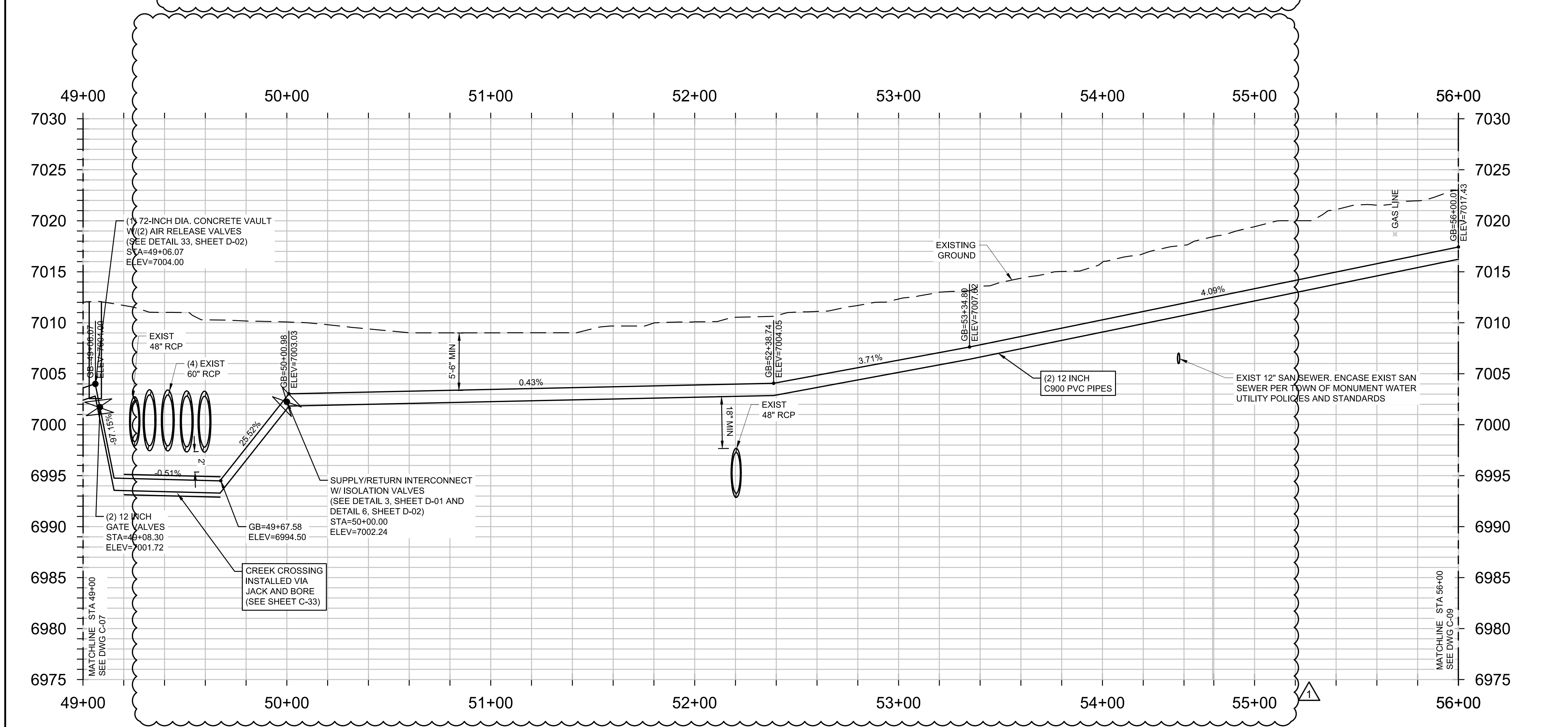
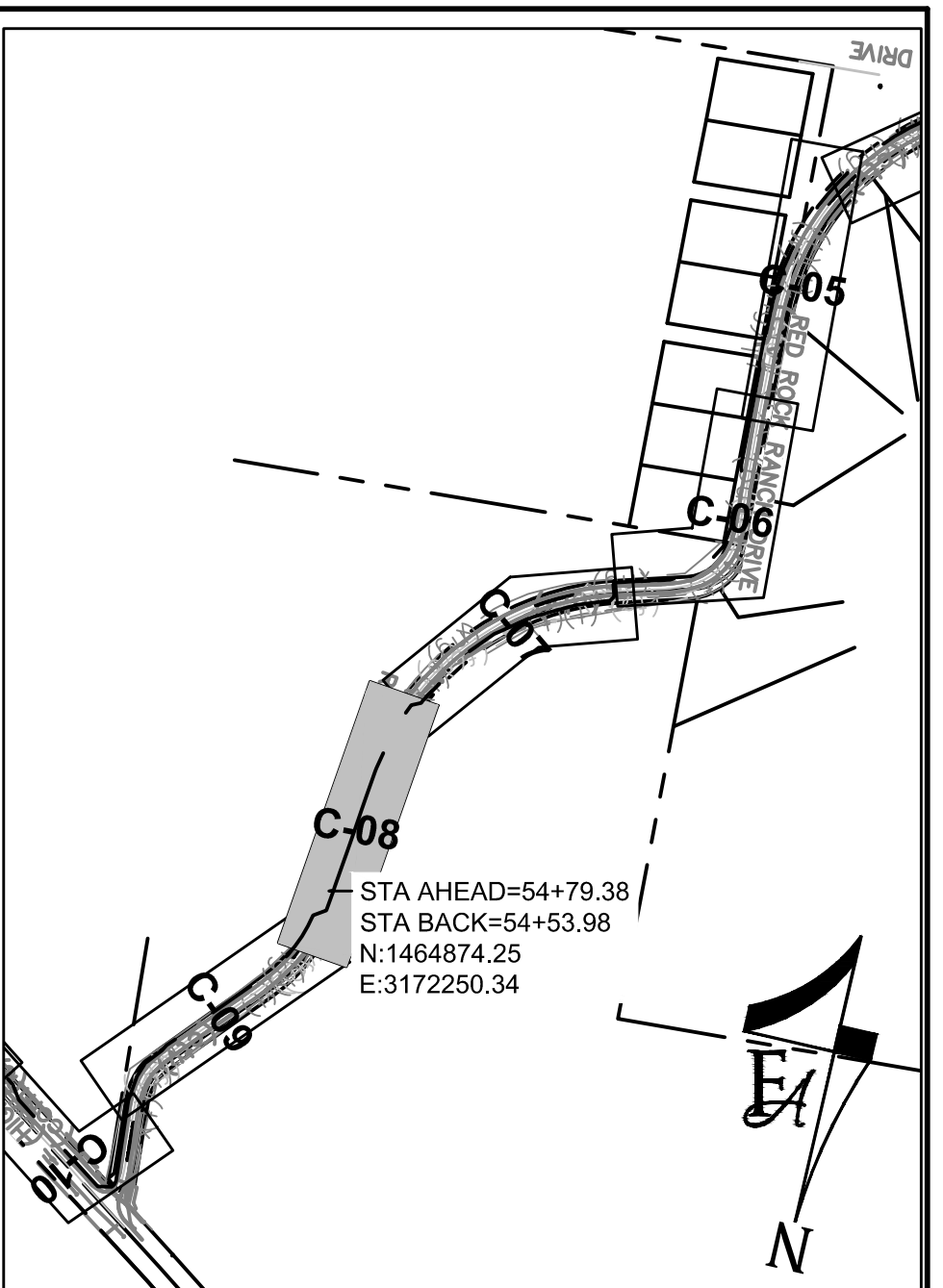
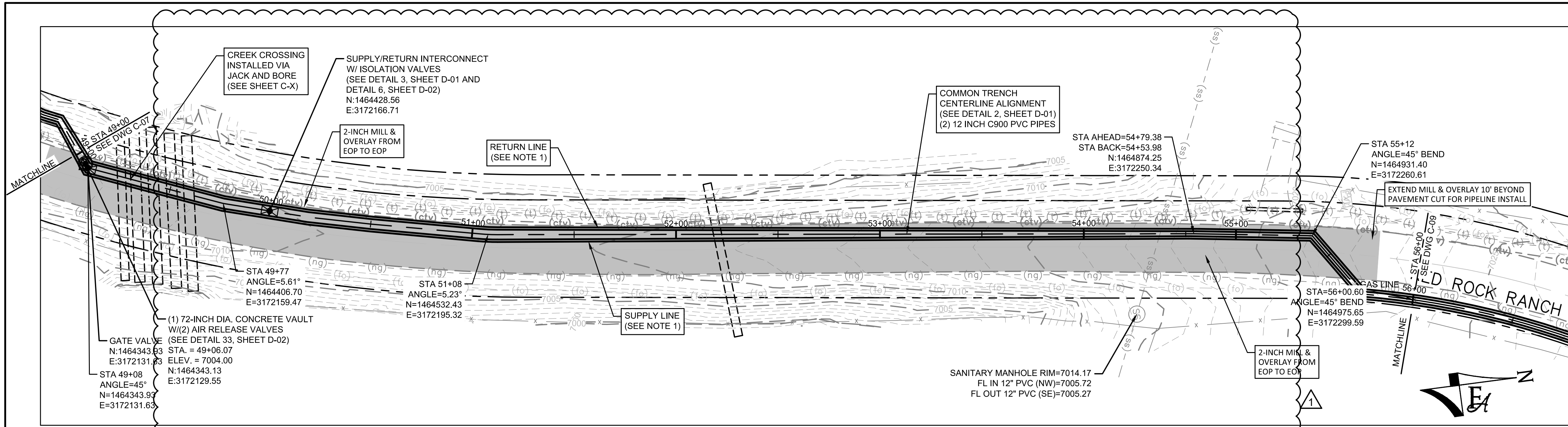


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MONUMENT WATERLINE
**PLAN AND PROFILE -
 STA 42+00 TO STA 49+00**

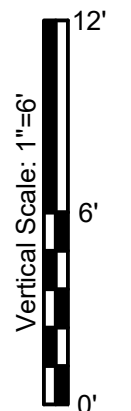
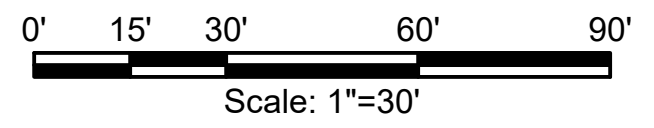
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04-20-0153
 SHEET NO:
C-07
 DATE:
 MAY, 2022
 PAGE NO:
 12 OF 45



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- CONTRACTOR RESPONSIBLE FOR REPAIR OF ASPHALT AND/OR CONCRETE DAMAGED DURING CONSTRUCTION TO ACCOMMODATE WATERLINE INSTALLATION.
- ALL VERTICAL DEFLECTIONS SHALL BE DONE VIA JOINT DEFLECTION WITHIN RECOMMENDED MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.

GRAPHIC SCALE



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NO.	REVISIONS	BY	DATE
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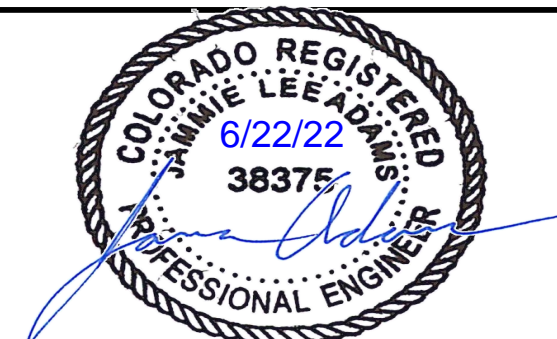
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

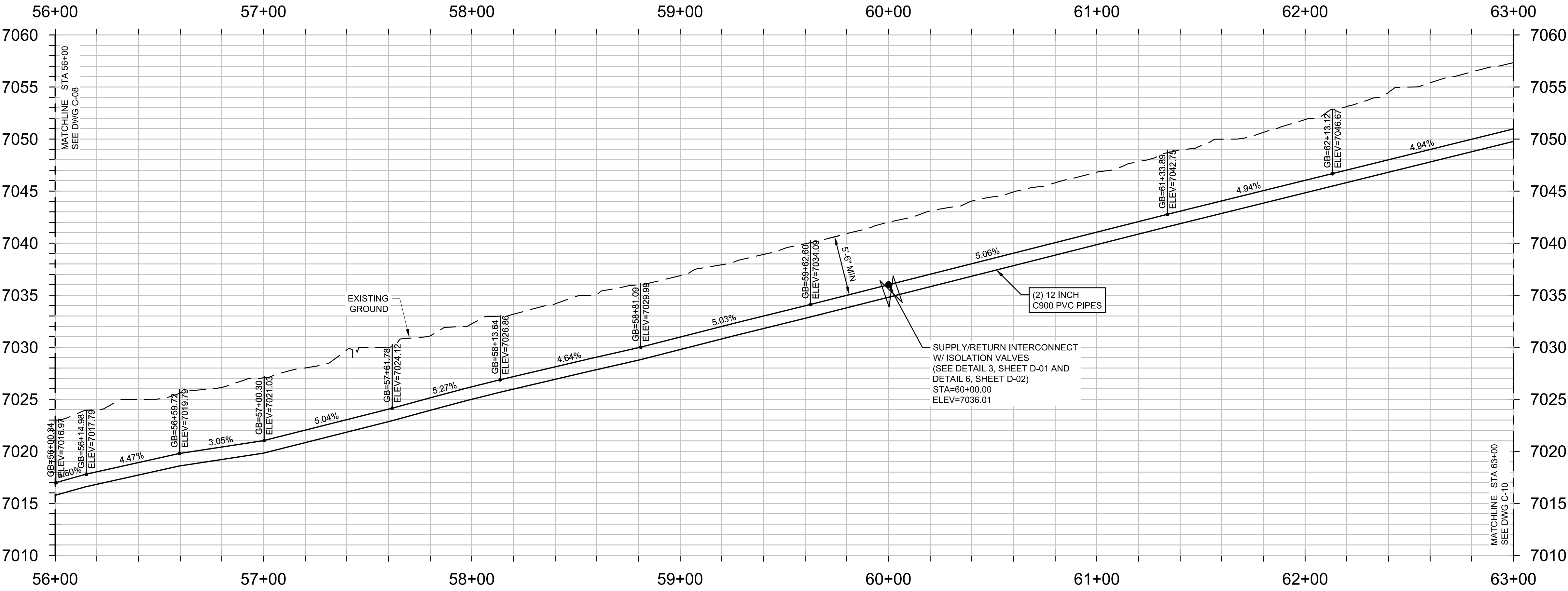
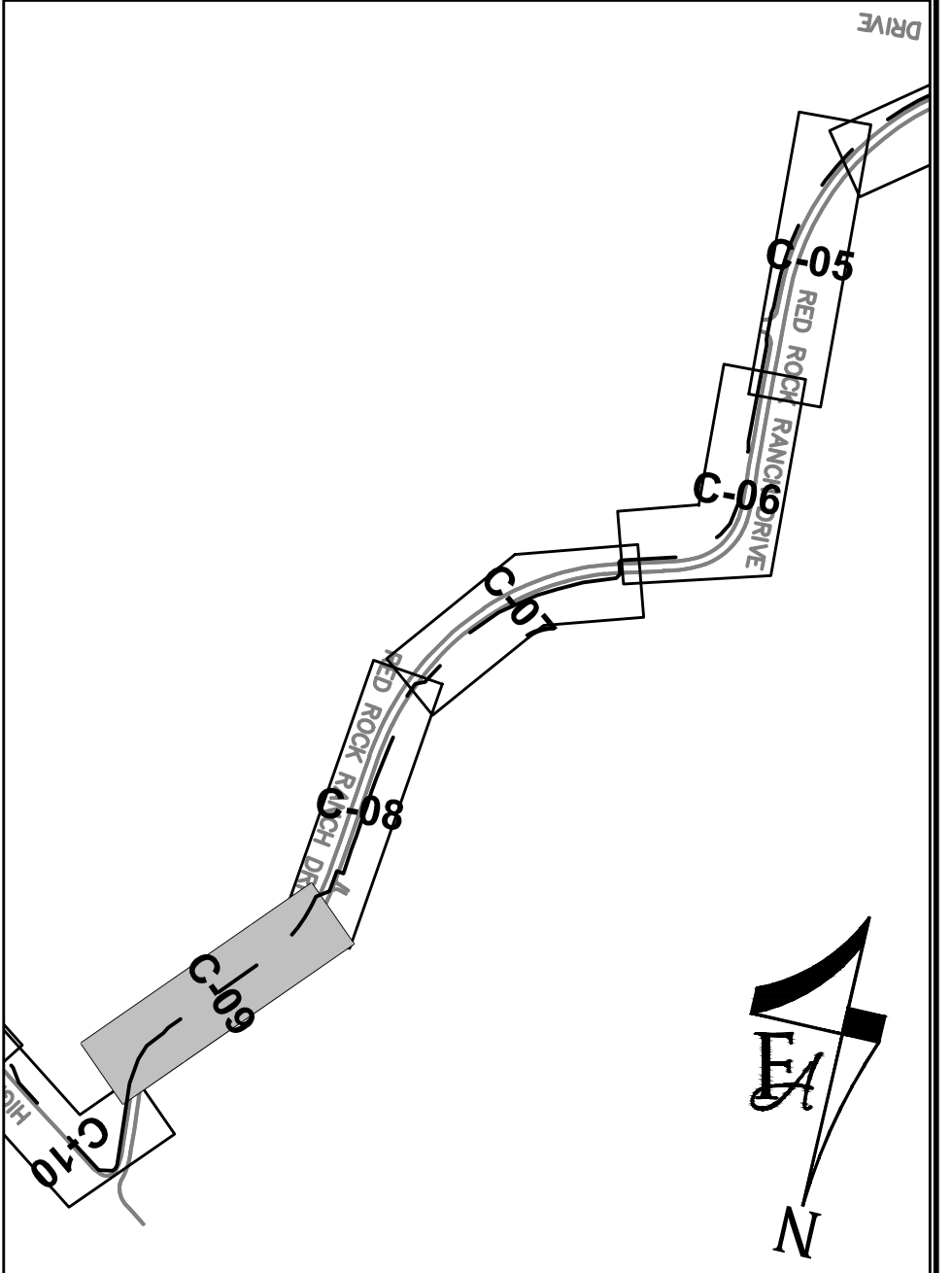
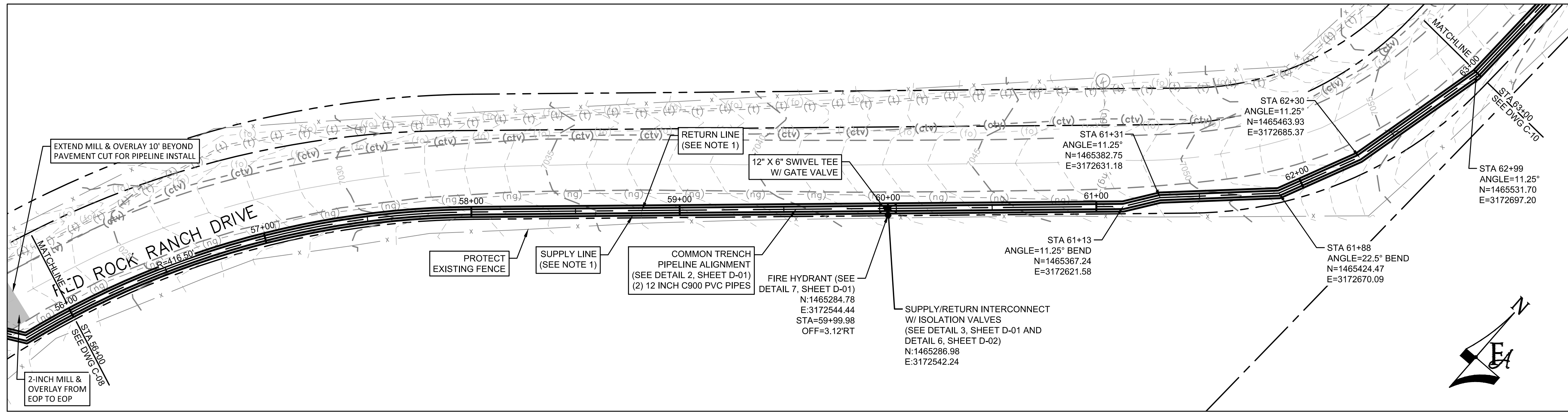


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56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

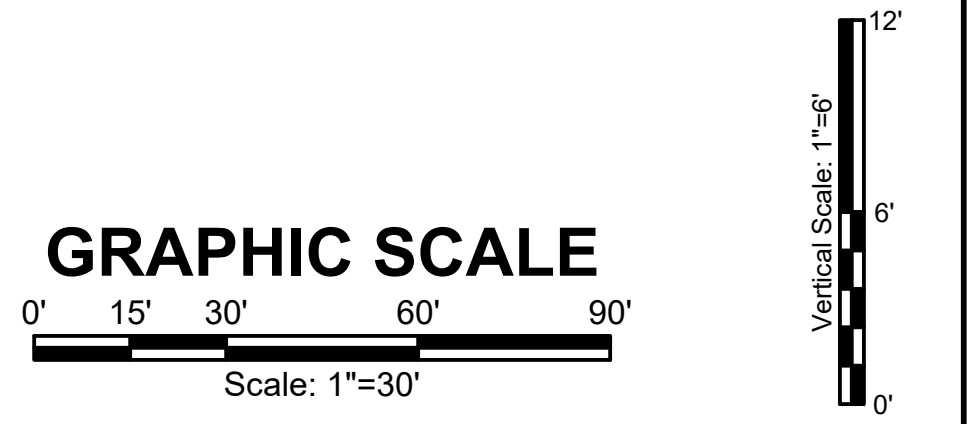


MONUMENT WATERLINE
PLAN AND PROFILE -
STA 49+00 TO STA 56+00

PROJECT NO: 04-20-0153	PAGE NO: 13 OF 45
SHEET NO: C-08	
DATE: MAY, 2022	



- GENERAL CONSTRUCTION NOTES:**
- CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
 - CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
 - CONTRACTOR SHALL OBTAIN ALL REQUIRED STORMWATER MANAGEMENT AND EROSION CONTROL PERMITS AND APPROVALS.
 - CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES, AND UTILITY VAULTS TO FINISHED GRADE AS NECESSARY.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES.
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 - CONTRACTOR SHALL POLYWRAP ALL FITTINGS.
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 - PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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NO.	REVISIONS	BY	DATE

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

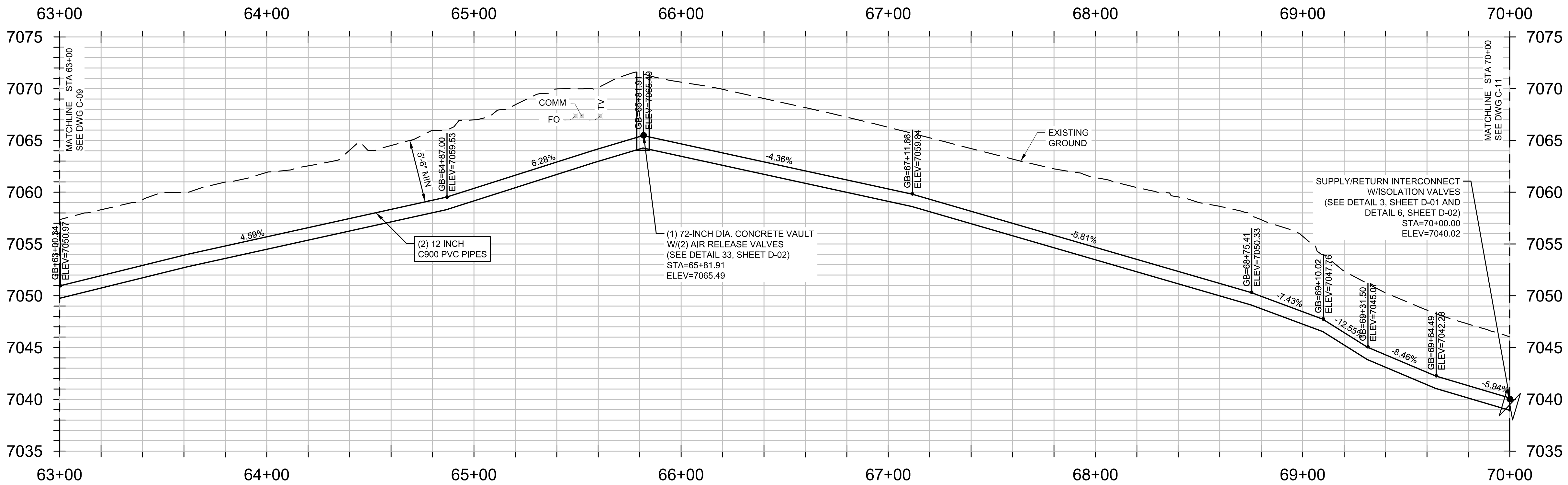
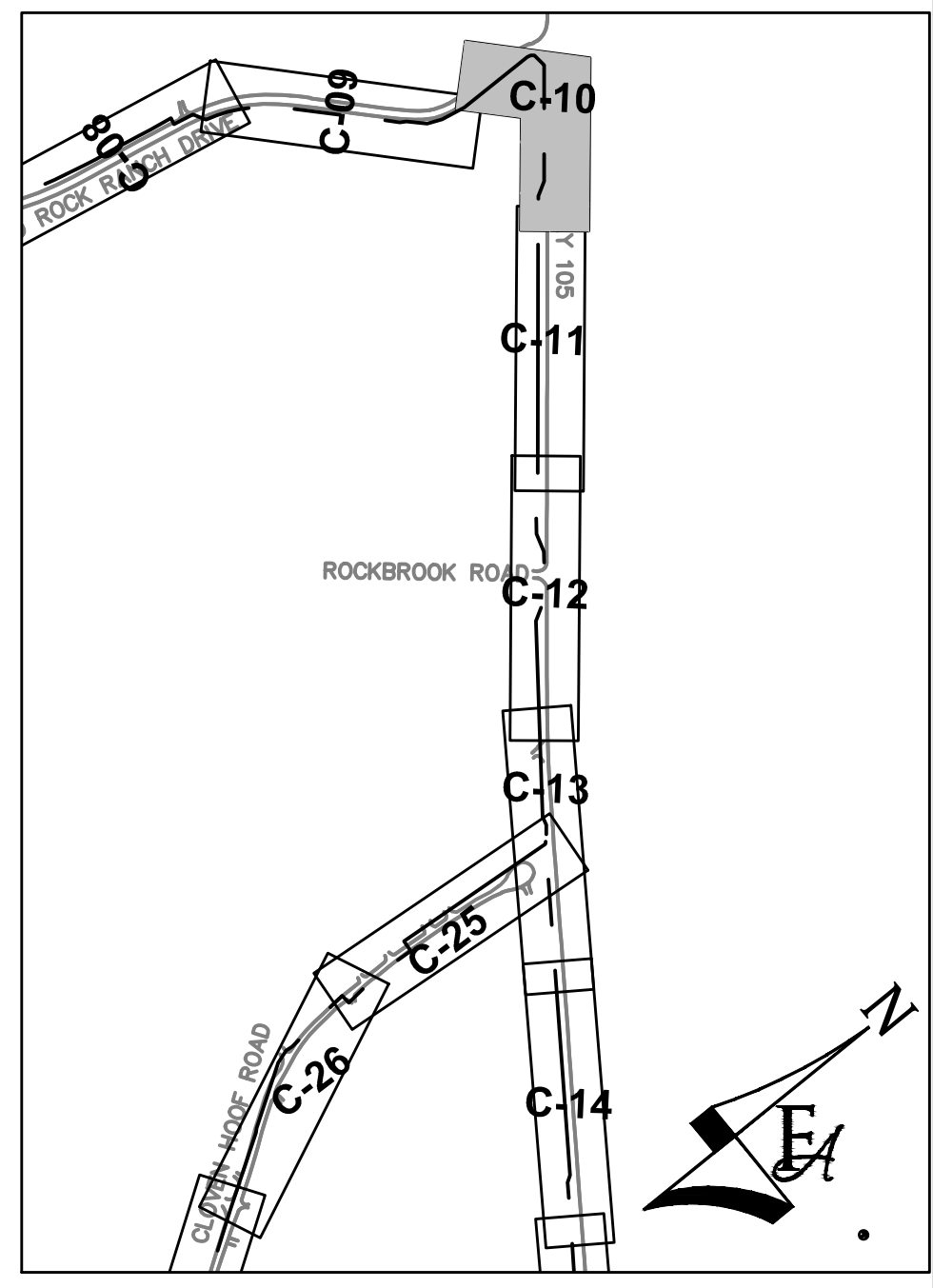
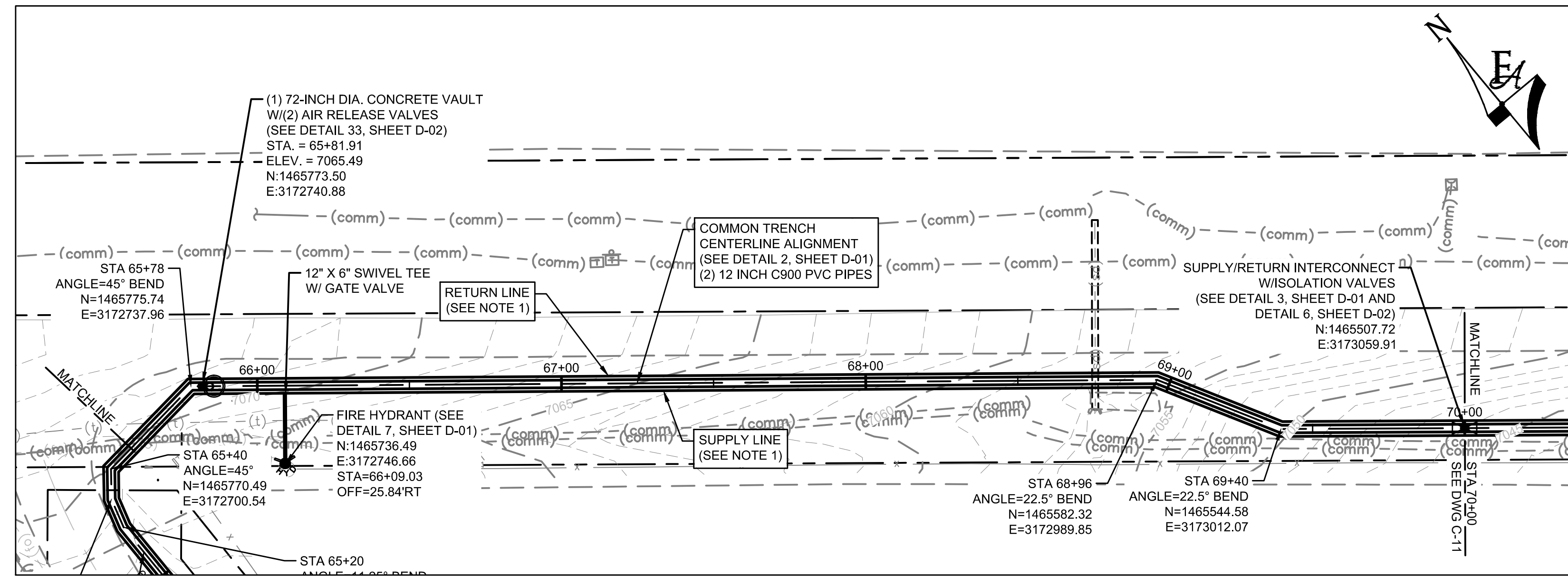
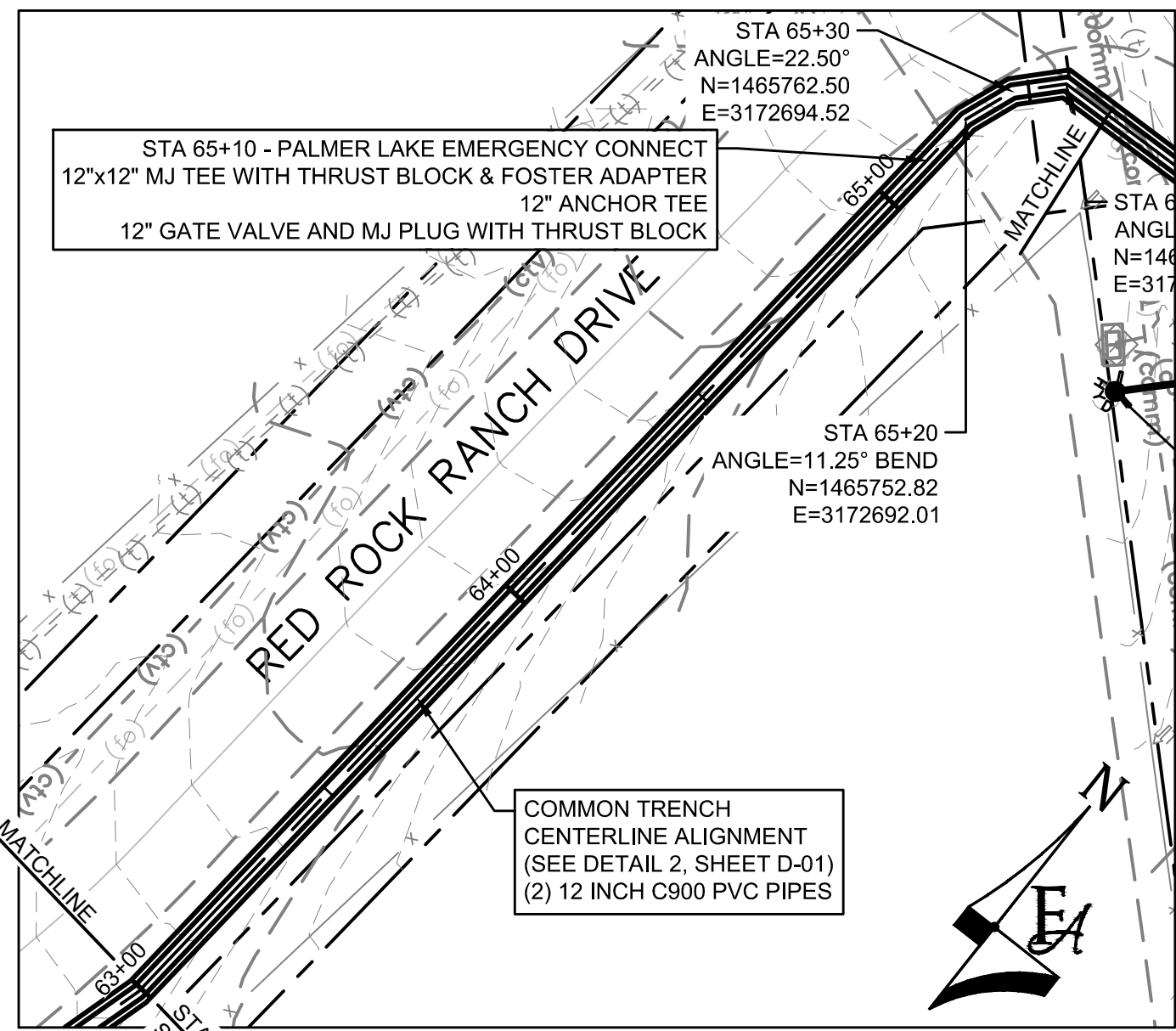


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PH: 720.232.6644

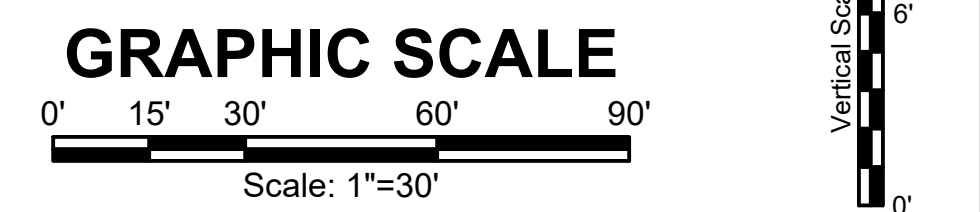


MONUMENT WATERLINE
**PLAN AND PROFILE -
STA 56+00 TO STA 63+00**

PROJECT NO:
04-20-0153
SHEET NO:
C-09
DATE:
MAY, 2022
PAGE NO:
14 OF 45



- GENERAL CONSTRUCTION NOTES:**
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 - CONTRACTOR SHALL VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
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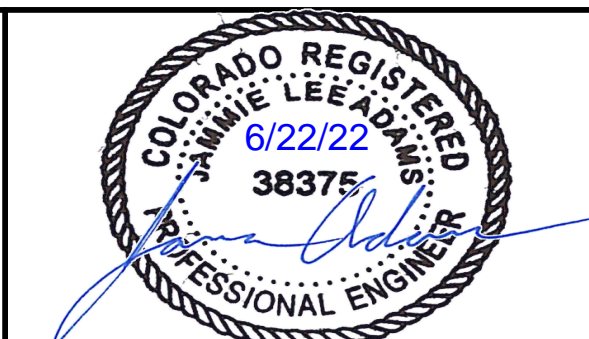
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NO.	REVISIONS	BY	DATE

DRAWN _____ S. CALE
 DESIGNED DESIGNED BY _____
 APPROVED APPROVED BY _____
 QA _____ QA BY _____

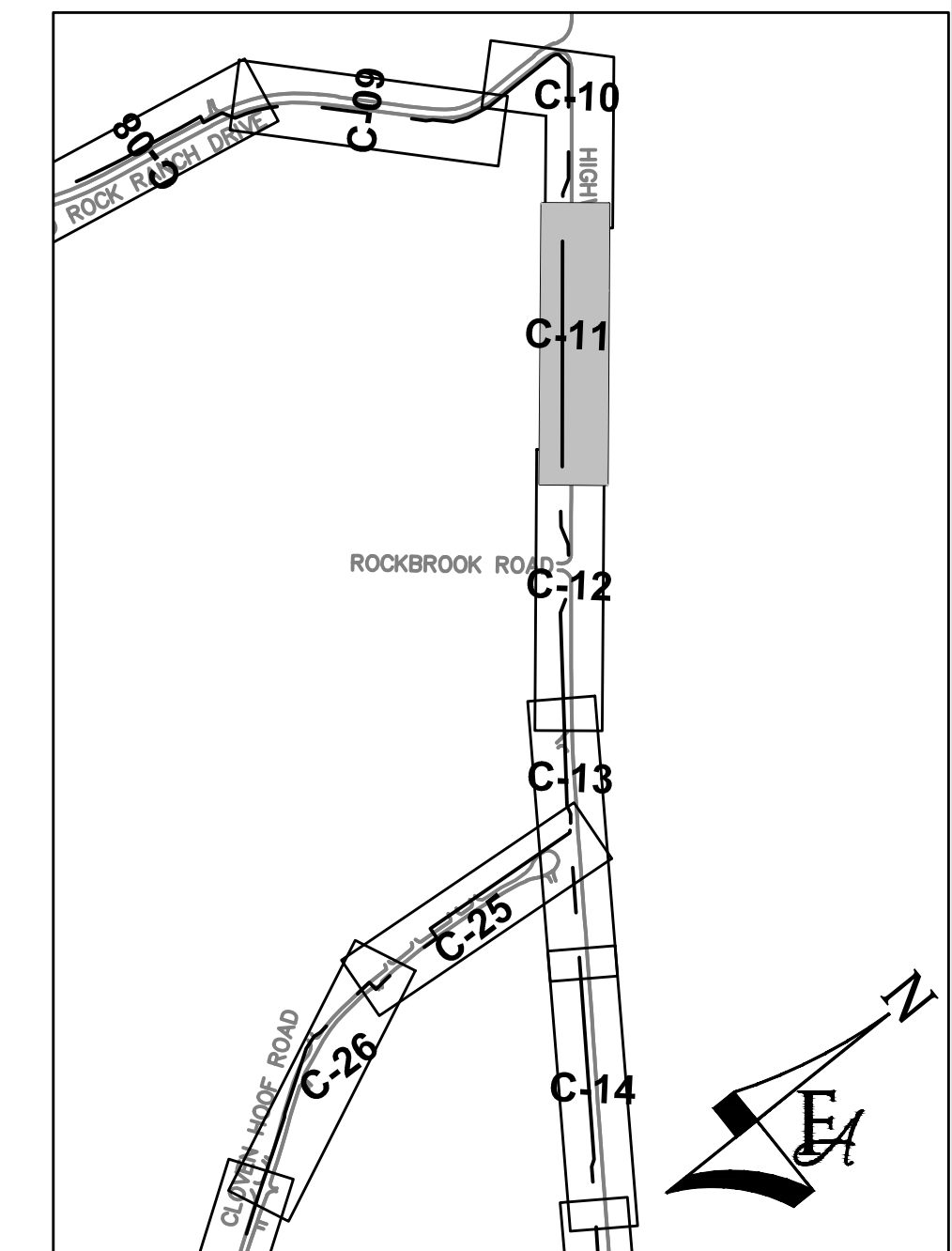
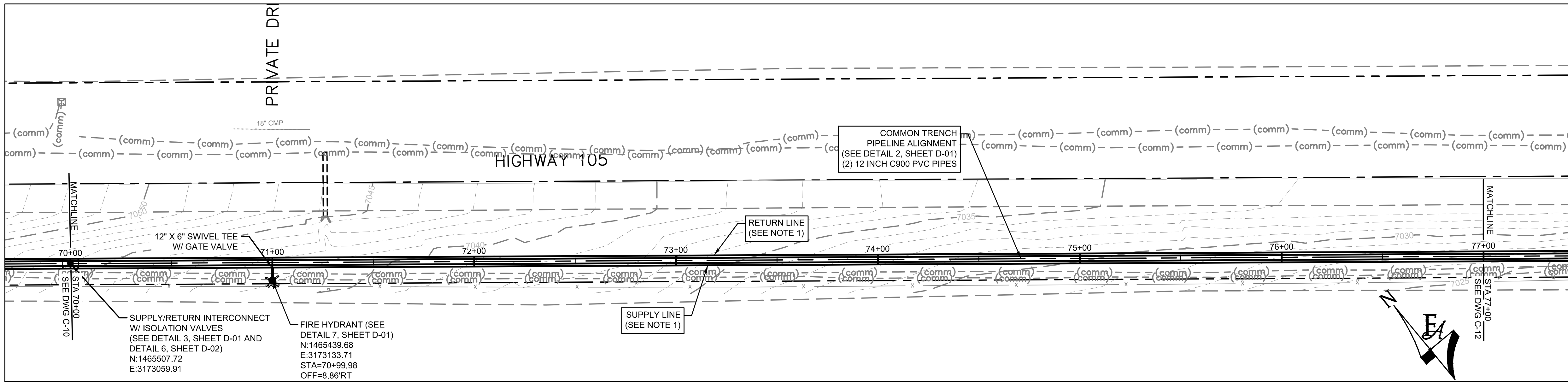


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 PH: 720.232.6644



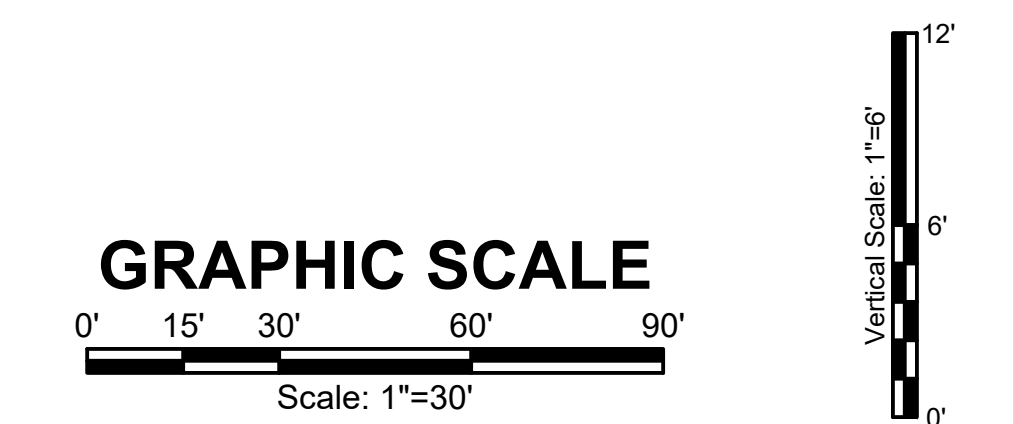
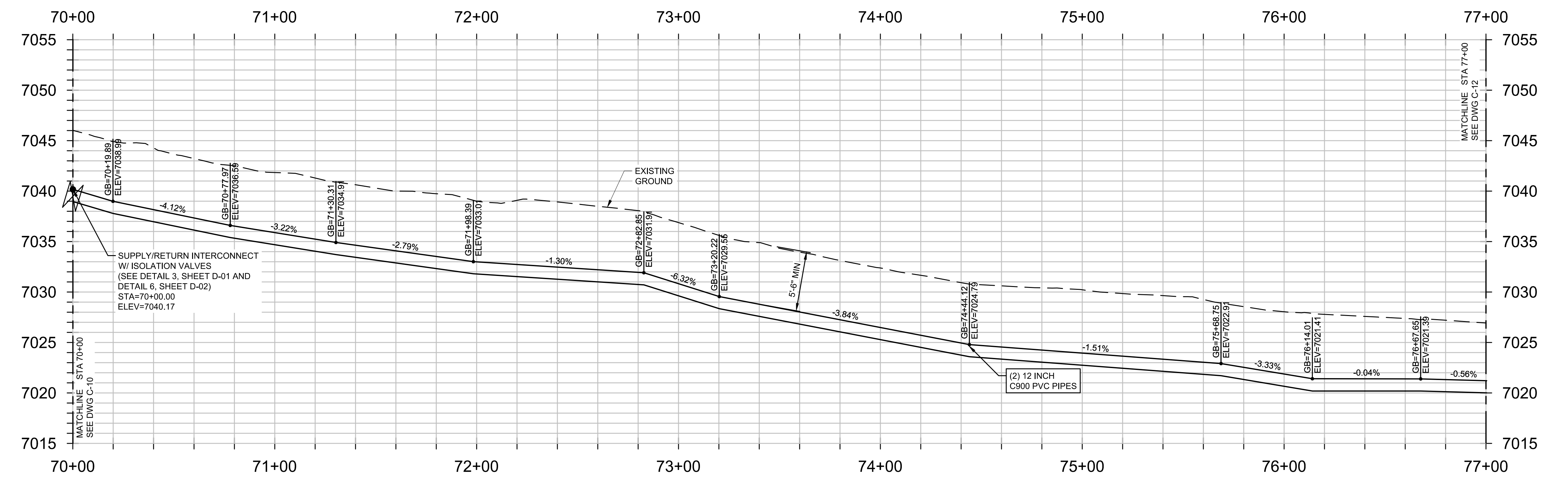
MONUMENT WATERLINE
PLAN AND PROFILE -
STA 63+00 TO STA 70+00

PROJECT NO:
04-20-0153
 SHEET NO:
C-10
 DATE:
 MAY, 2022
 PAGE NO:
 15 OF 45



GENERAL CONSTRUCTION NOTES:

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10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



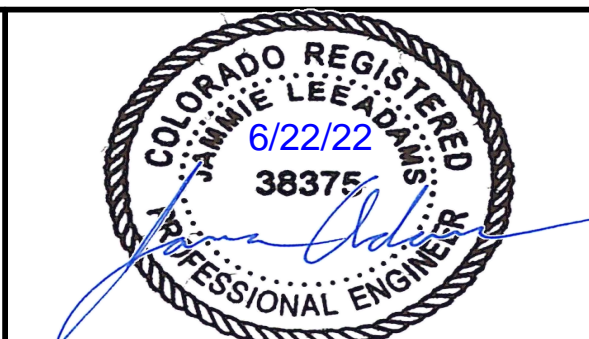
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NO.	REVISIONS	BY	DATE

DRAWN _____ S. CALE
 DESIGNED _____ DESIGNED BY
 APPROVED _____ APPROVED BY
 QA _____ QA BY

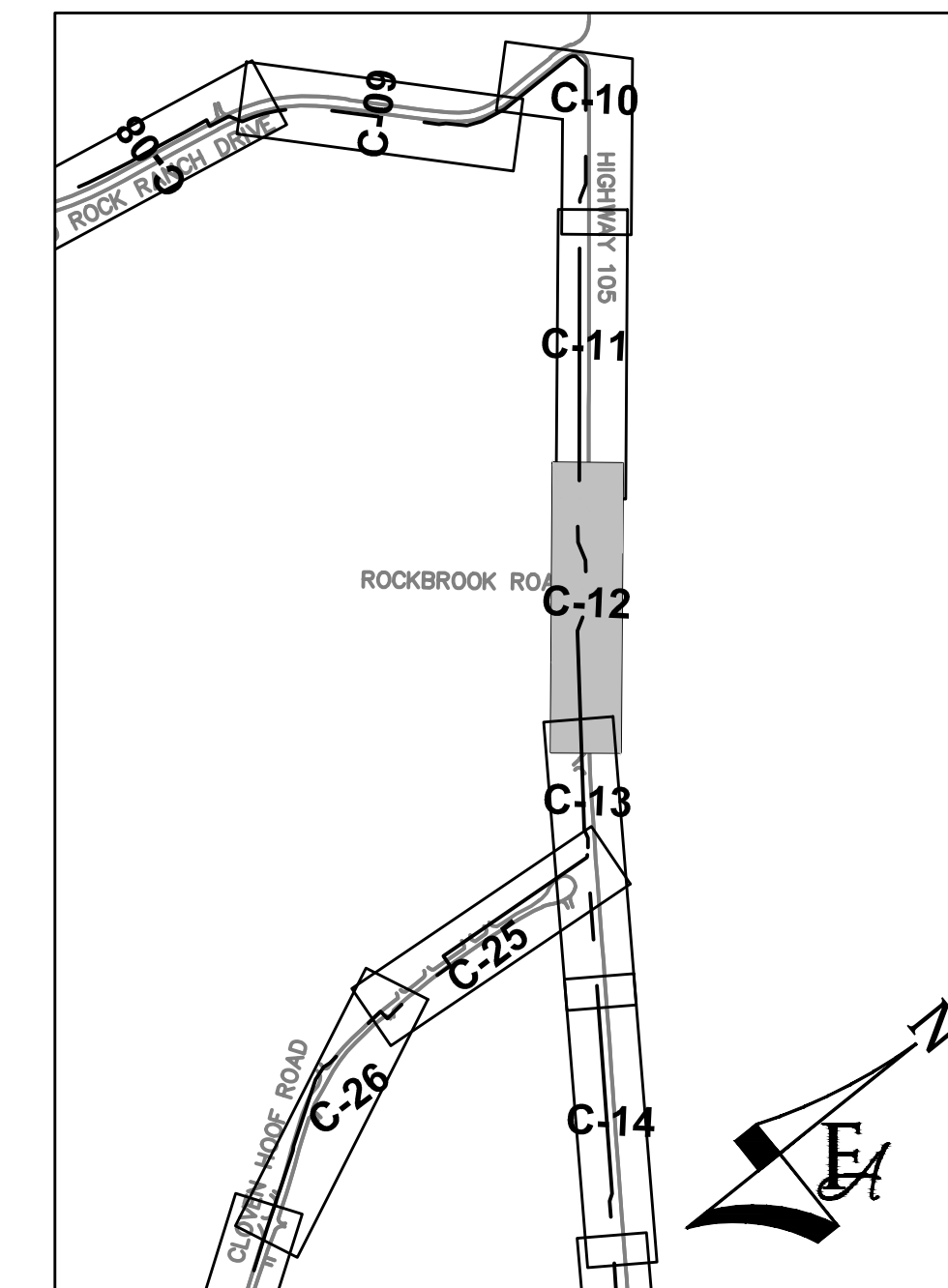
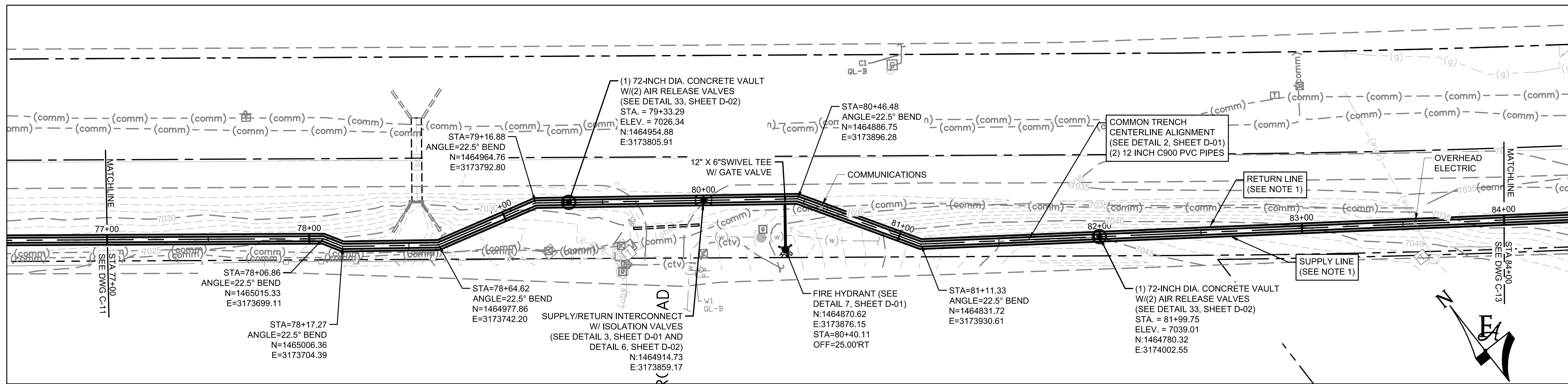


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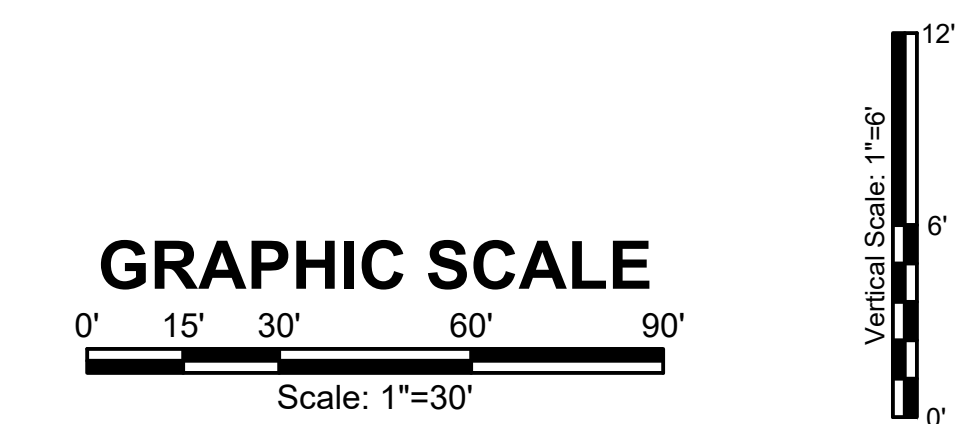
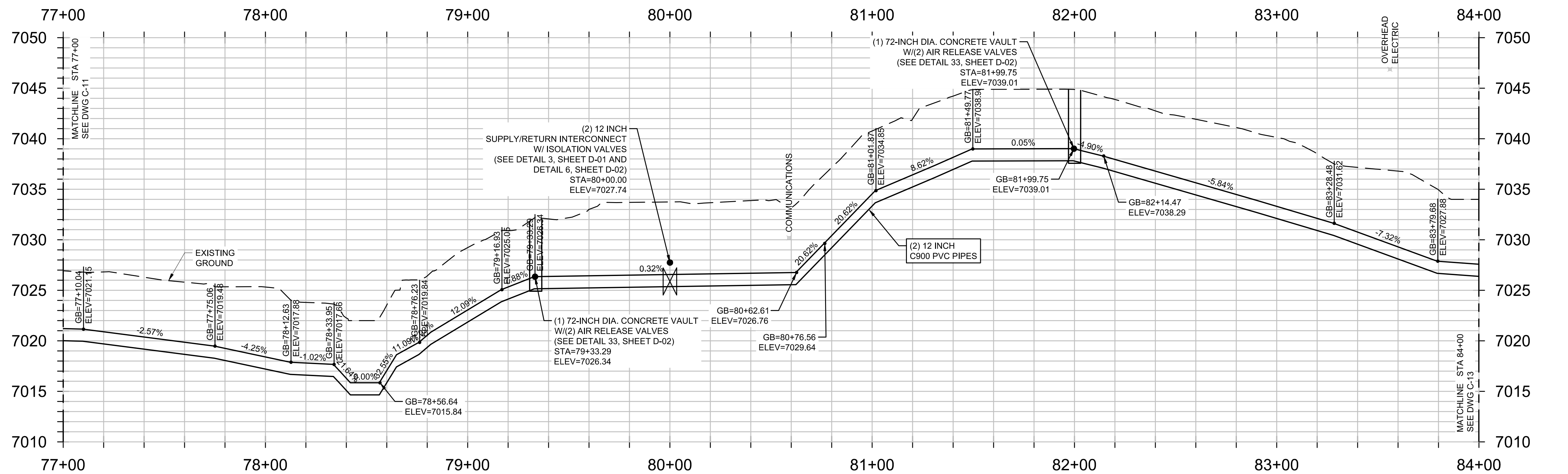
MONUMENT WATERLINE
PLAN AND PROFILE -
STA 70+00 TO STA 77+00

PROJECT NO:
04-20-0153
 SHEET NO:
C-11
 DATE:
 MAY, 2022
 PAGE NO:
 16 OF 45



GENERAL CONSTRUCTION NOTES:

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10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

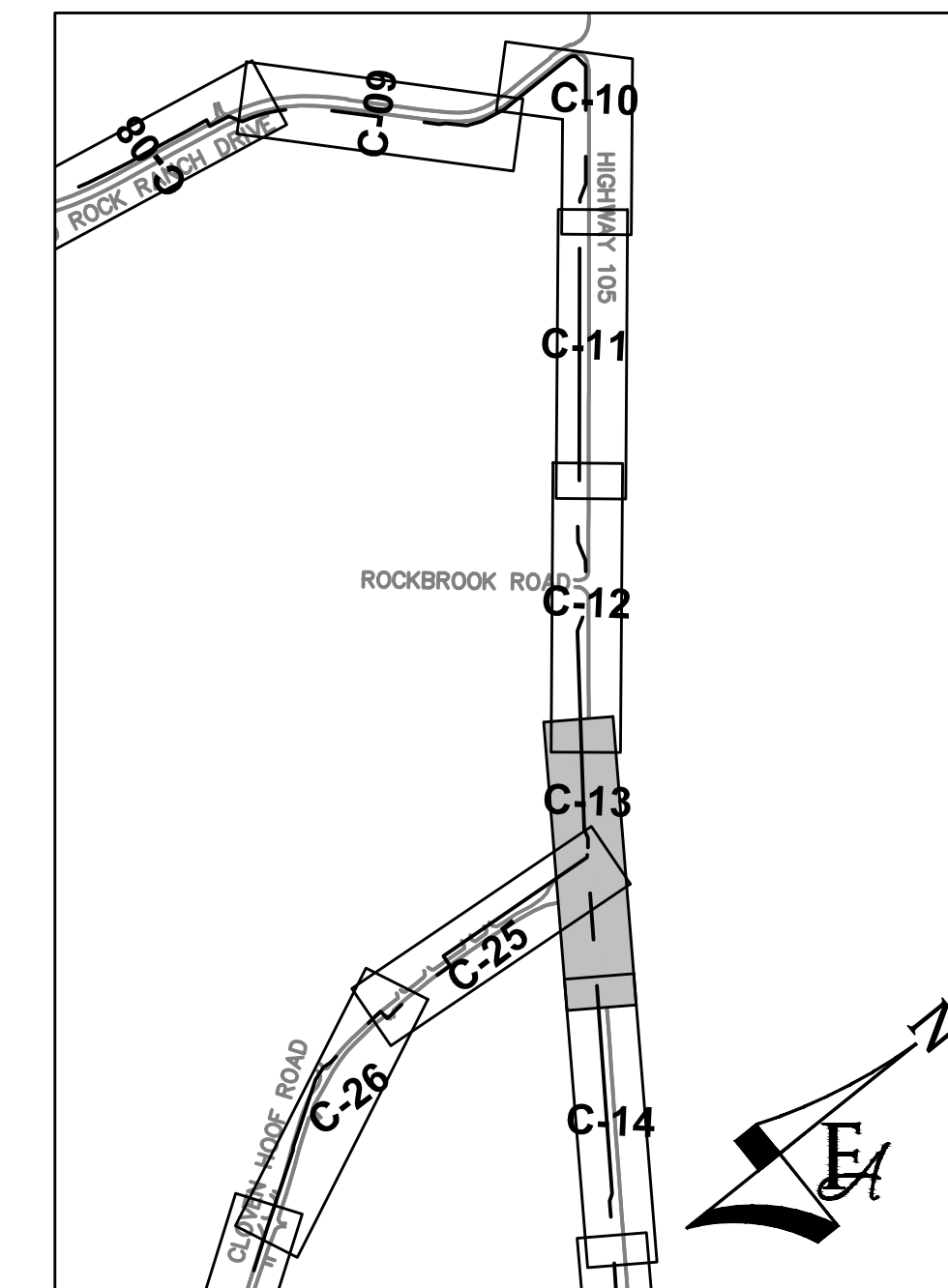
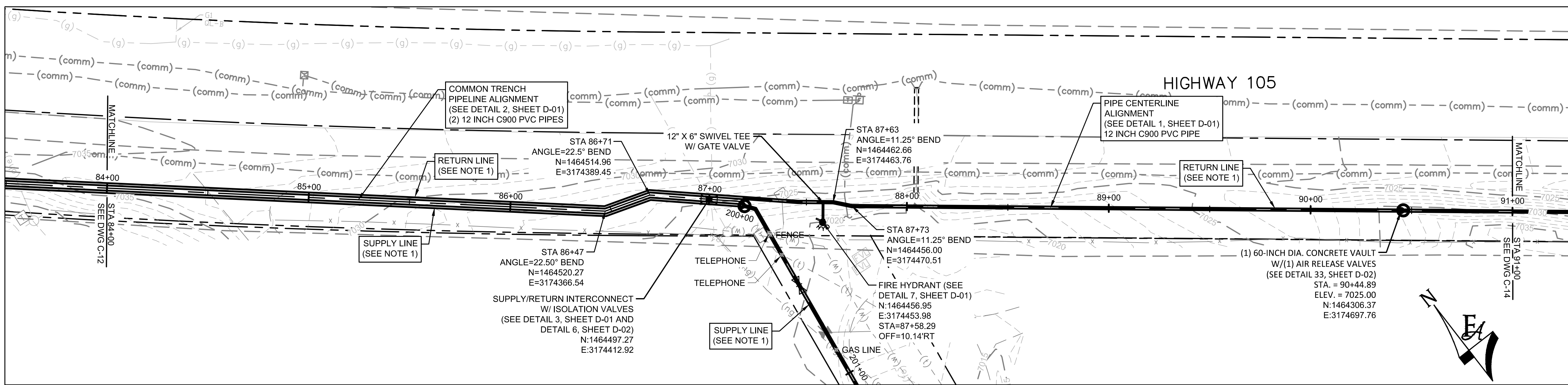


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PH: 720.232.6644

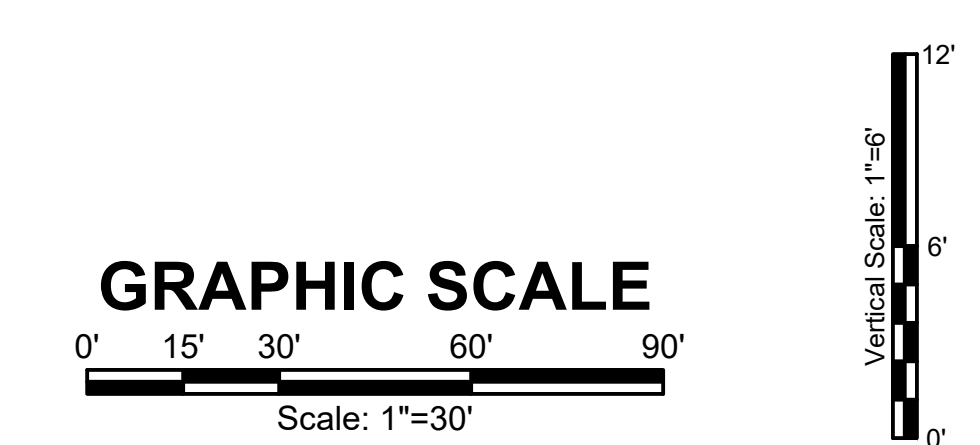
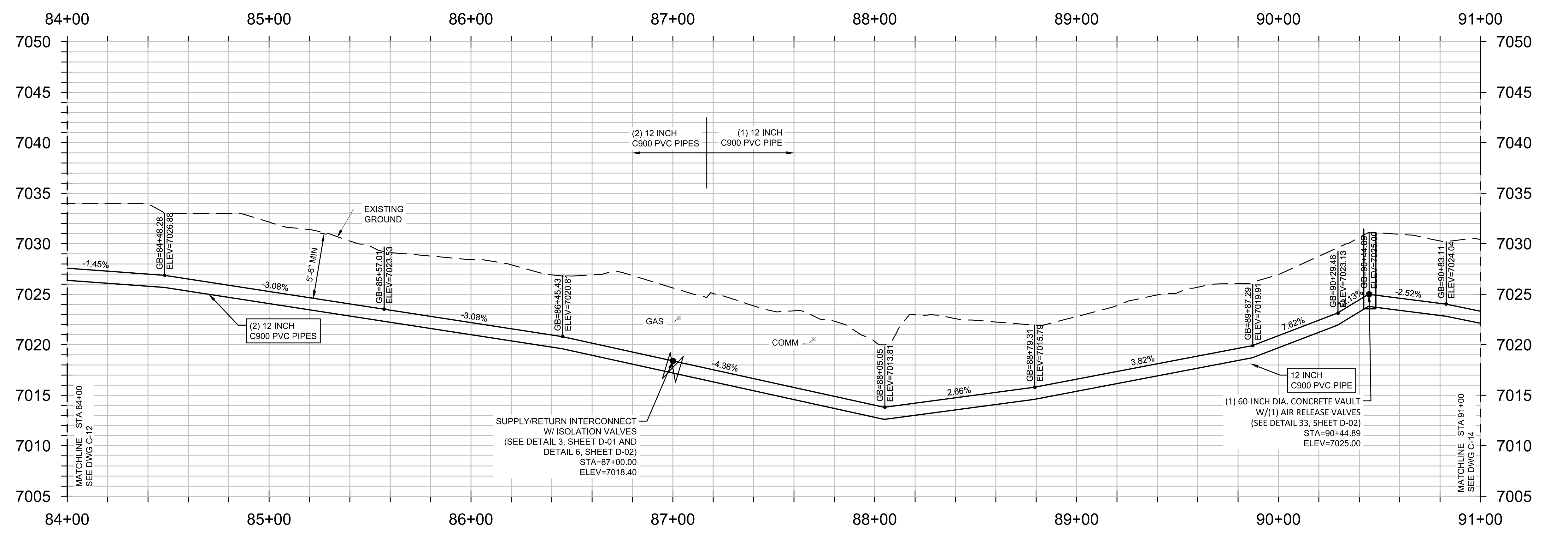


MONUMENT WATERLINE
PLAN AND PROFILE -
STA 77+00 TO STA 84+00

PROJECT NO:	04-20-0153
SHEET NO:	C-12
DATE:	MAY, 2022
PAGE NO:	17 OF 45



- GENERAL CONSTRUCTION NOTES:**
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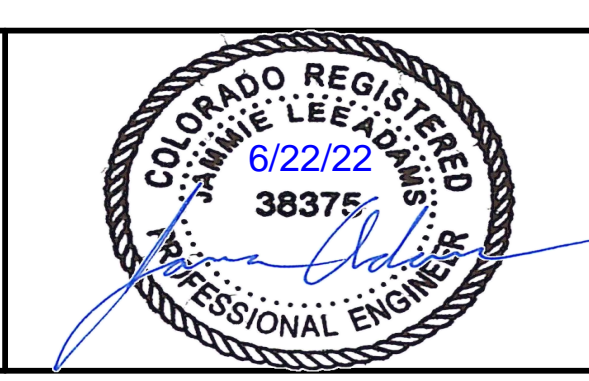
NO.	REVISIONS	BY	DATE

ATTENTION
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AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

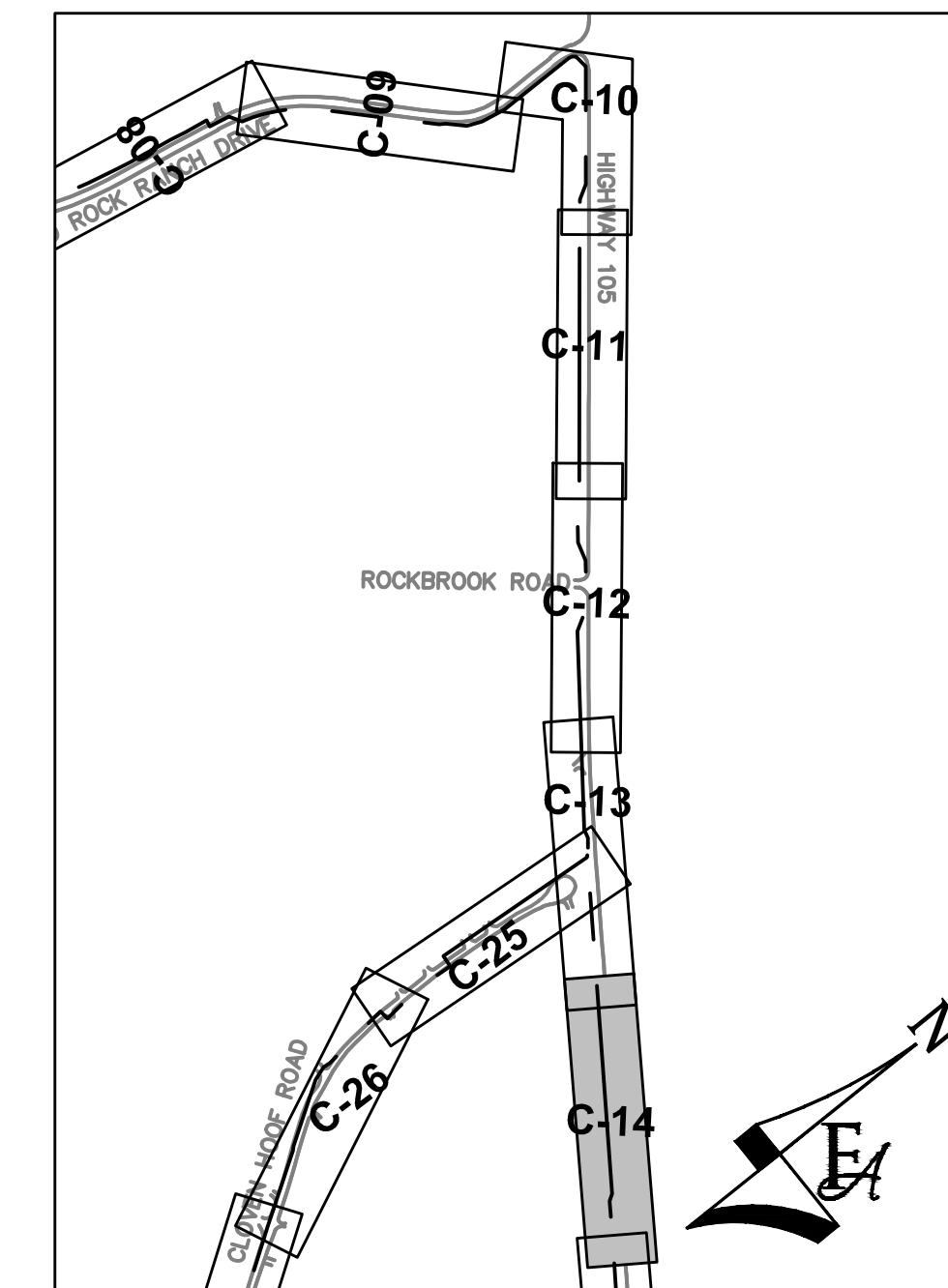
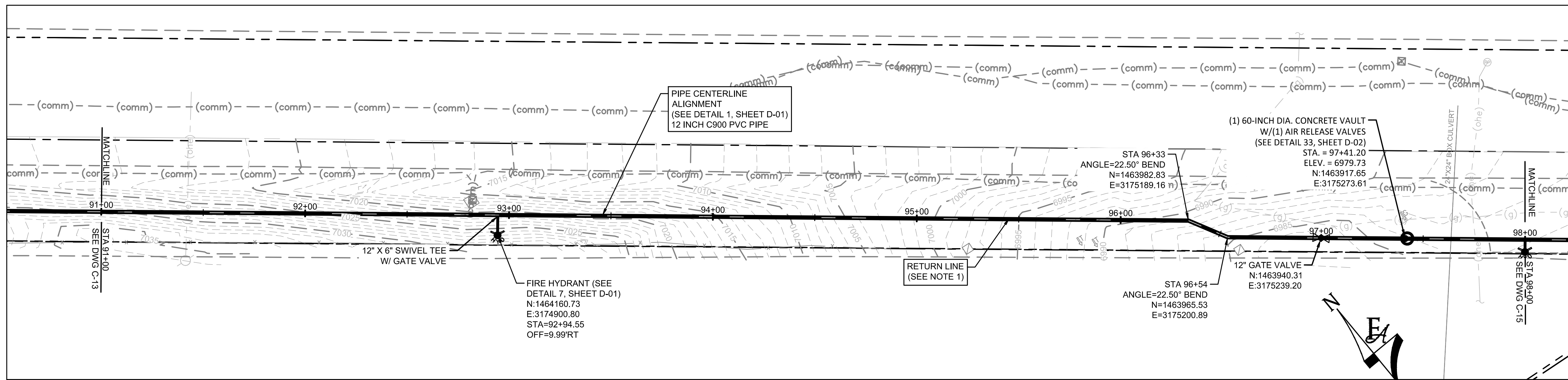


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PH: 720.232.6644



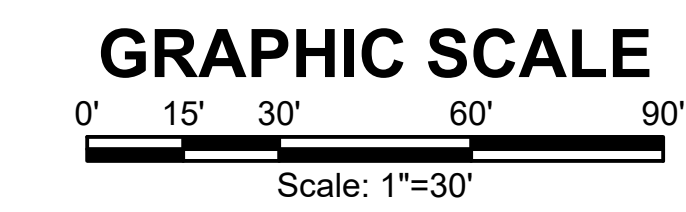
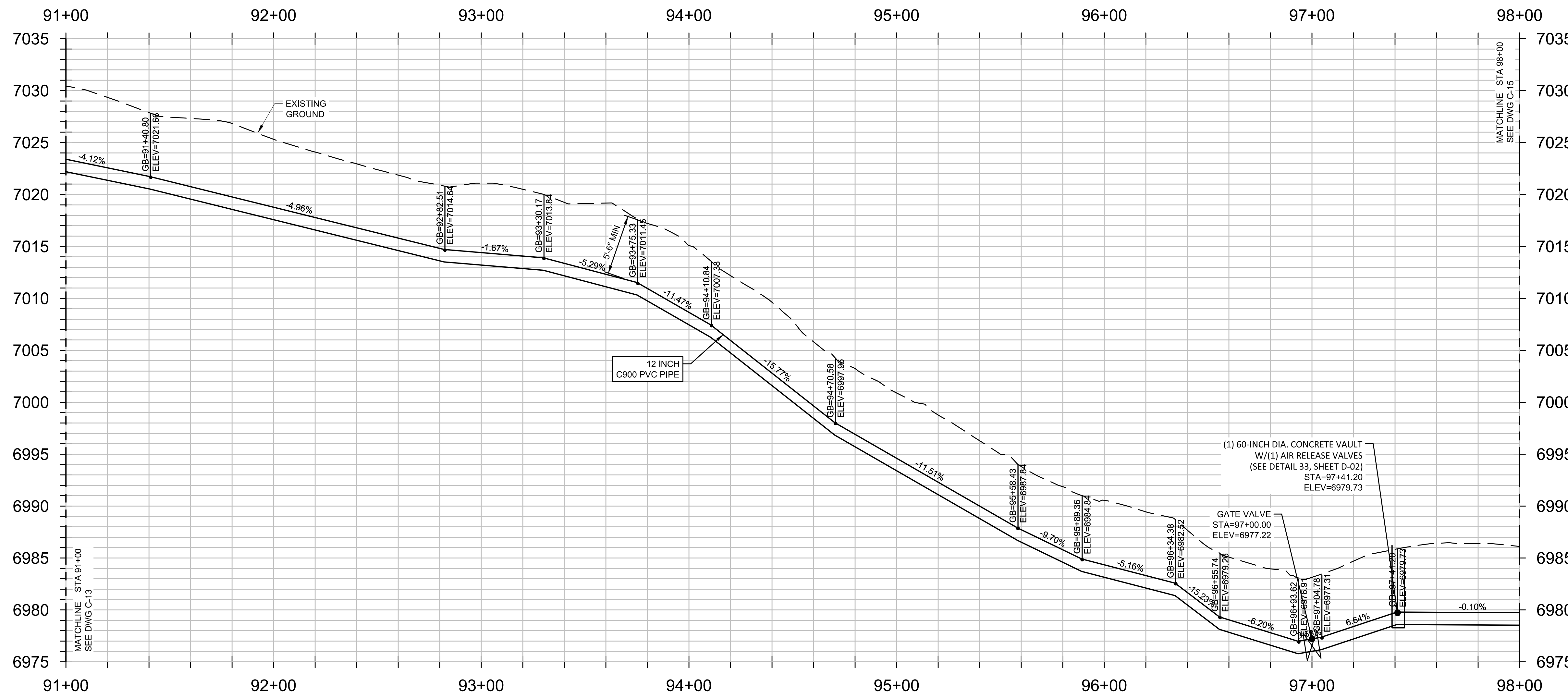
MONUMENT WATERLINE
PLAN AND PROFILE - STA 84+00 TO STA 91+00

PROJECT NO: **04-20-0153**
SHEET NO: **C-13**
DATE: MAY, 2022
PAGE NO: 18 OF 45



GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
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NO.	REVISIONS	BY	DATE

DRAWN: S. CALE
 DESIGNED: DESIGNED BY
 APPROVED: APPROVED BY
 QA: QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

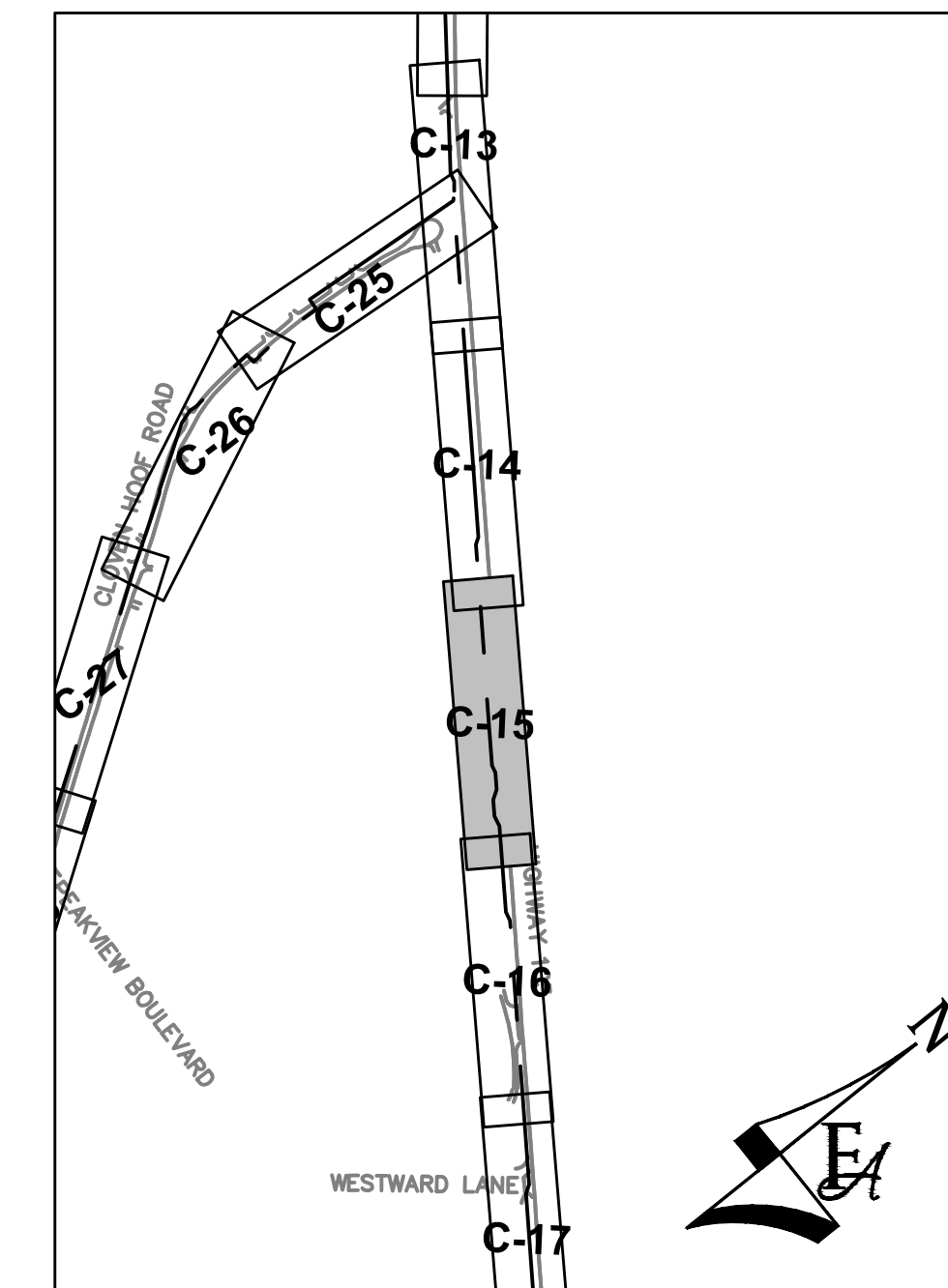
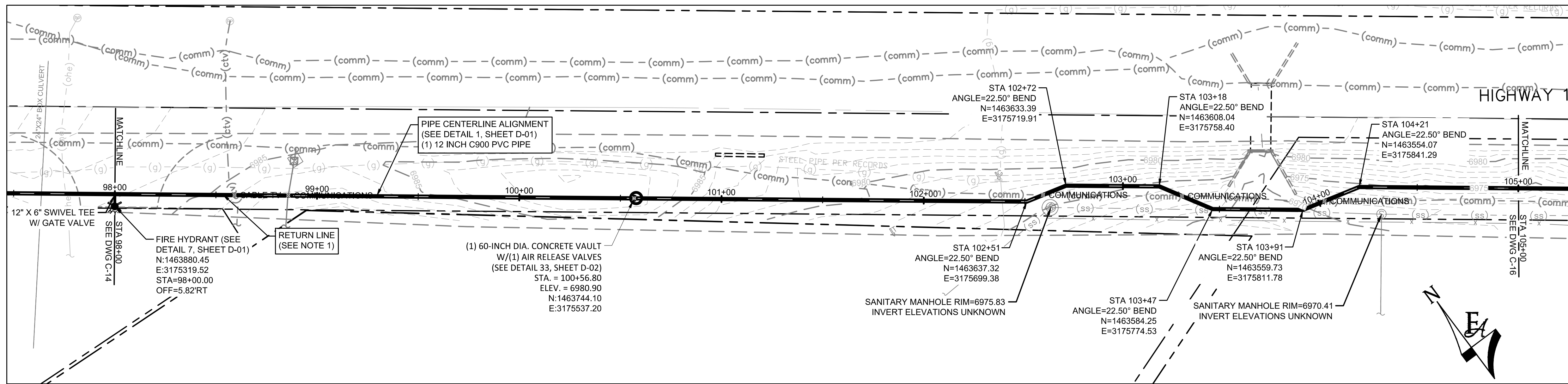


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 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720.232.6644



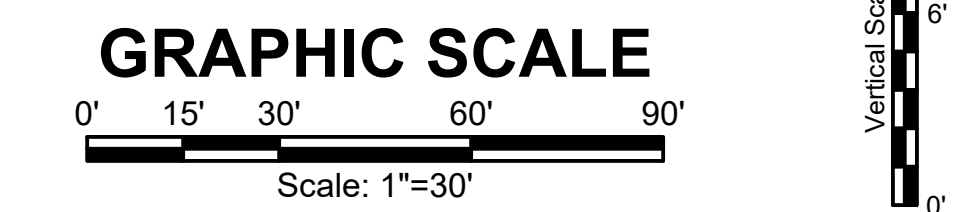
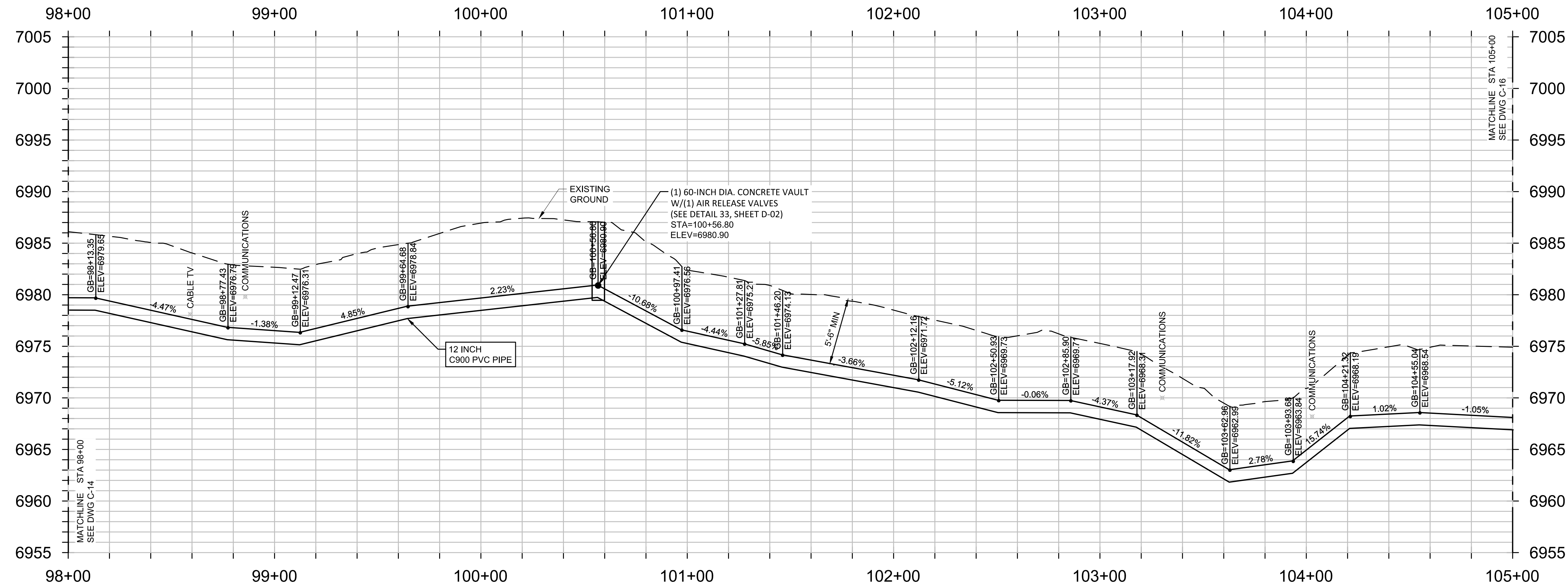
MONUMENT WATERLINE
PLAN AND PROFILE -
STA 91+00 TO STA 98+00

PROJECT NO: 04-20-0153	PAGE NO: 19 OF 45
SHEET NO: C-14	DATE: MAY, 2022



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NO.	REVISIONS	BY	DATE

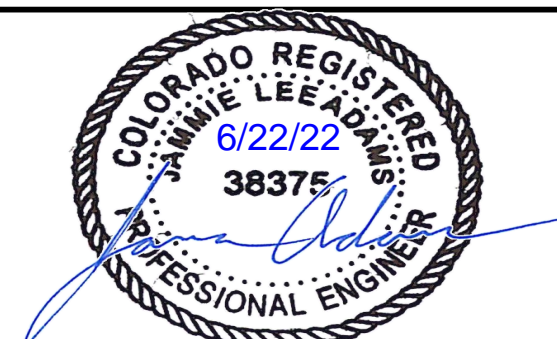
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
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AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

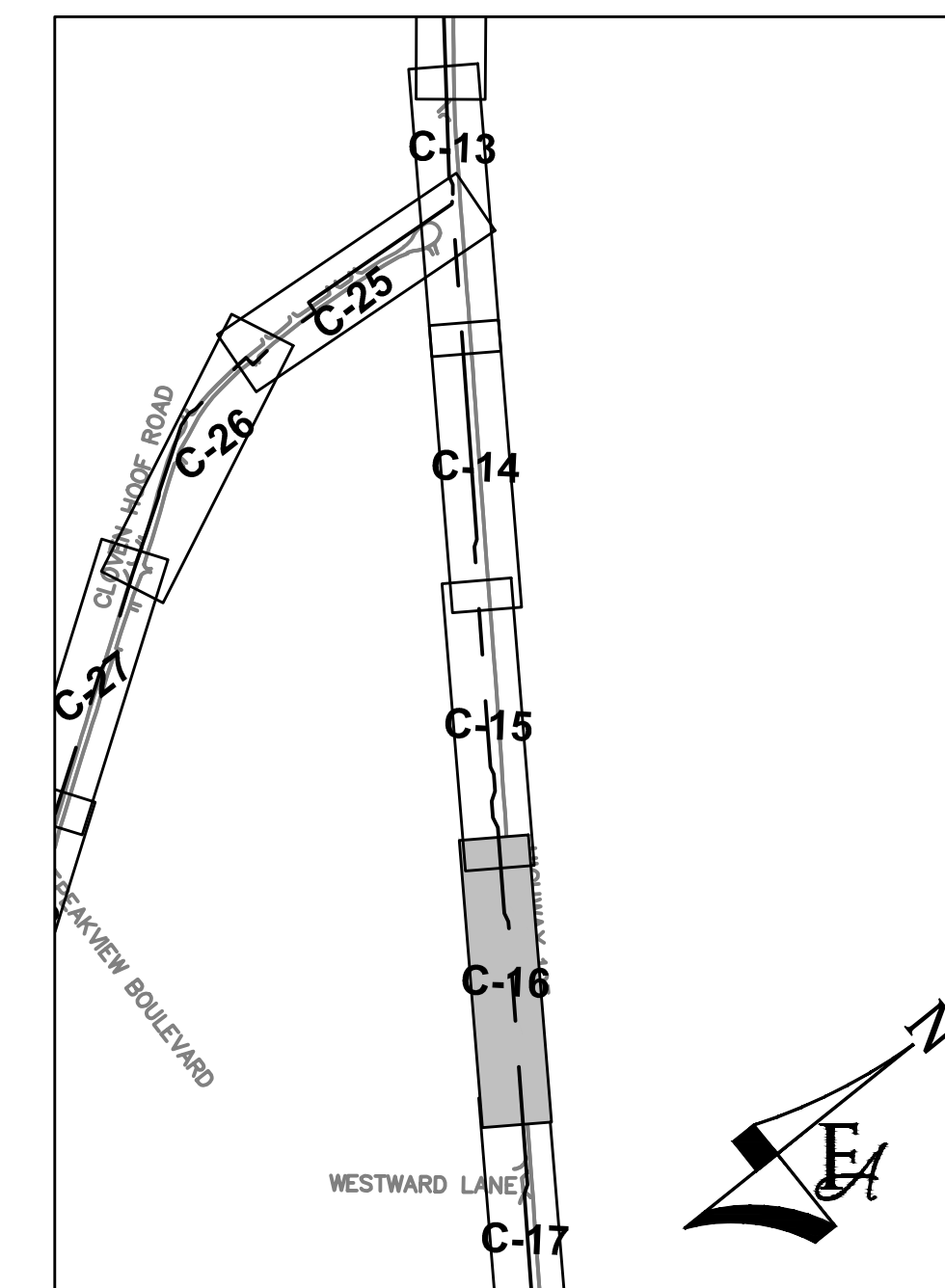
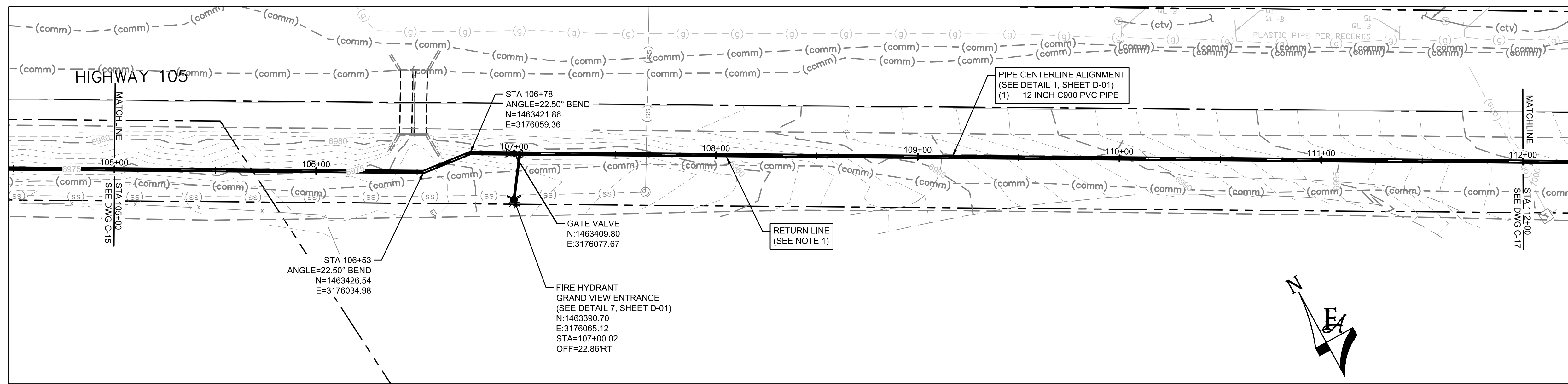


FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



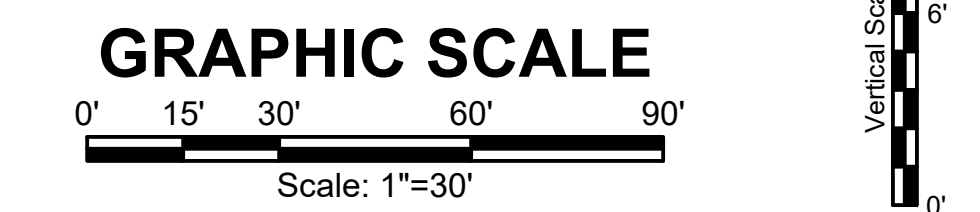
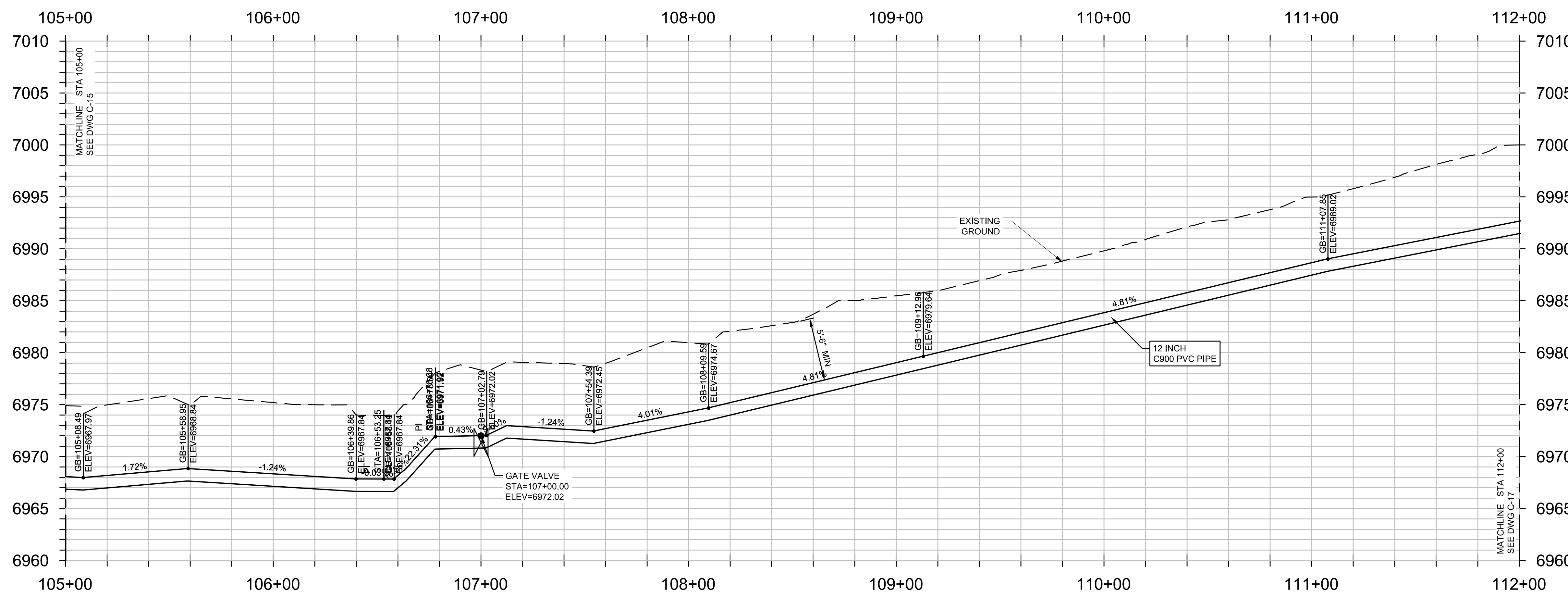
MONUMENT WATERLINE
PLAN AND PROFILE -
STA 98+00 TO STA 105+00

PROJECT NO: 04-20-0153	PAGE NO: 20 OF 45
SHEET NO: C-15	DATE: MAY, 2022



GENERAL CONSTRUCTION NOTES:

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10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-16 PLAN AND PROFILE - 16.dwg - 5/5/2022 3:22 PM

NO.	REVISIONS	BY	DATE

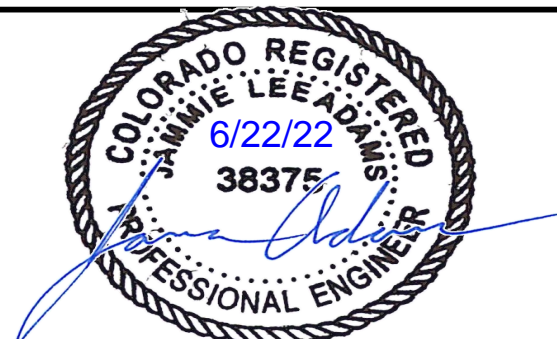
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

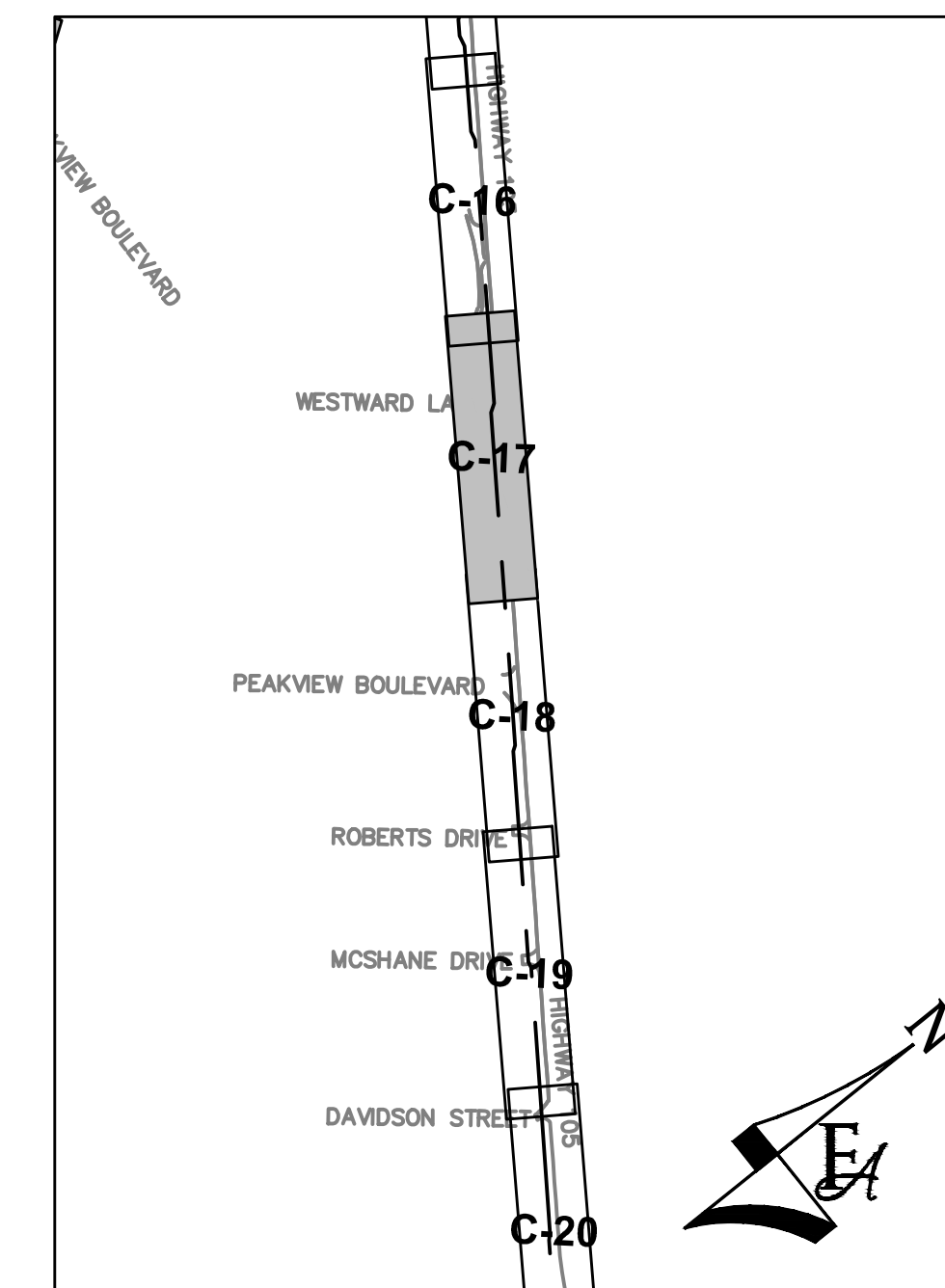
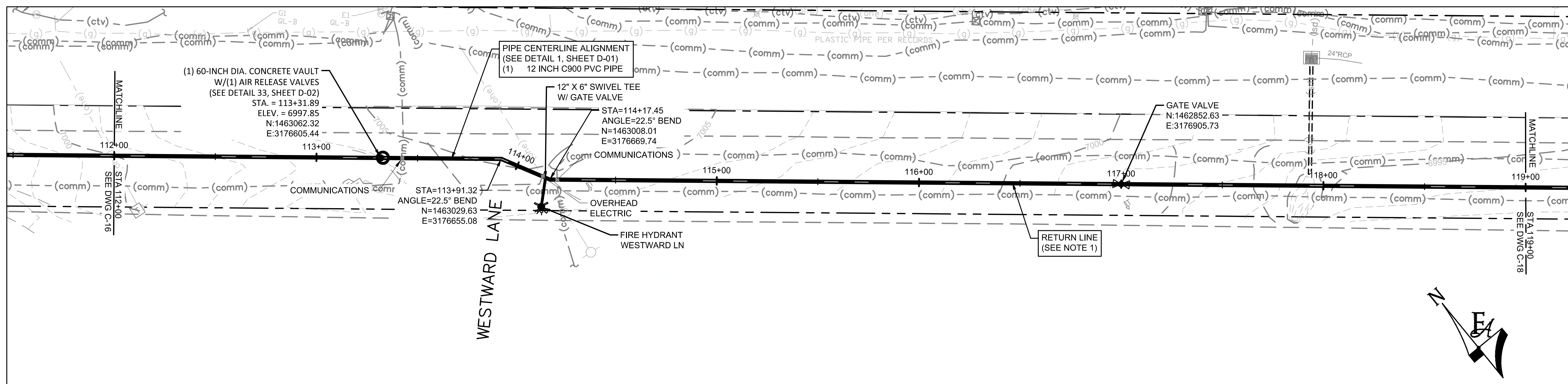


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PH: 720.232.6644



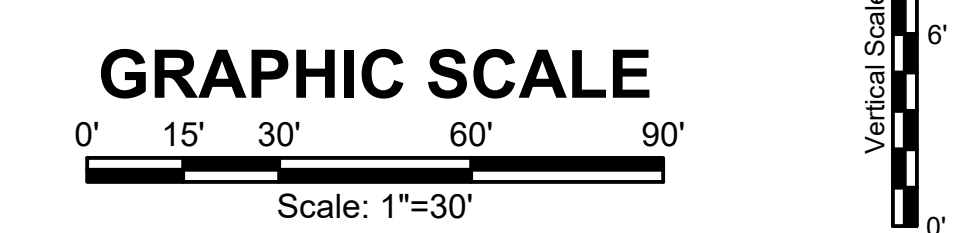
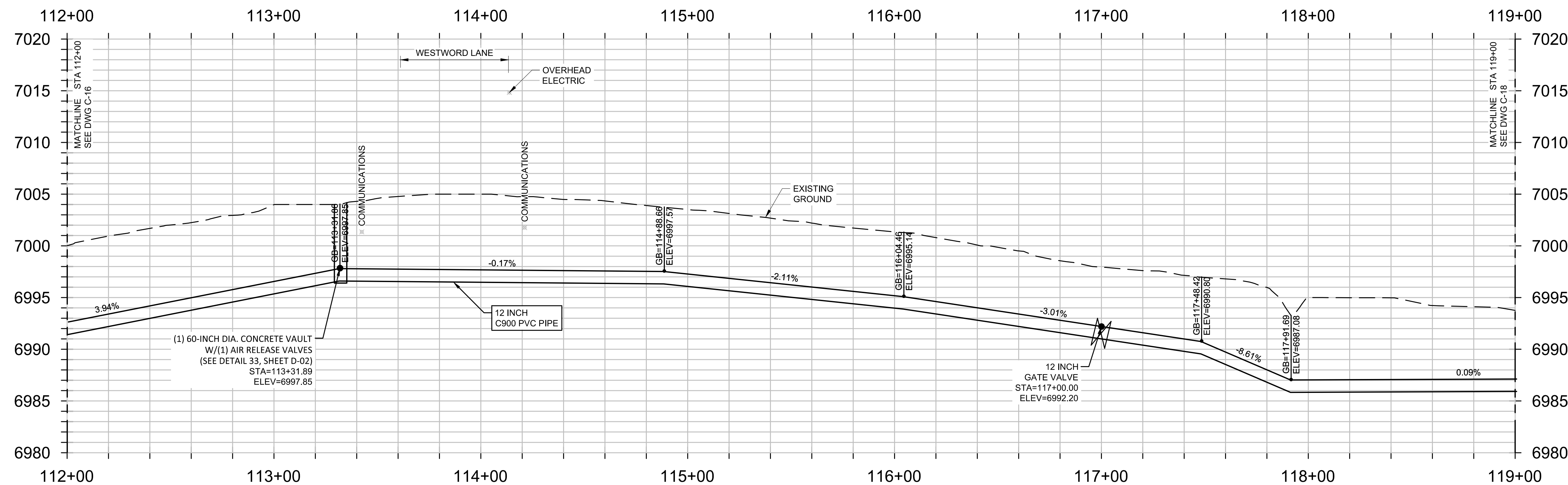
MONUMENT WATERLINE
PLAN AND PROFILE - STA 105+00 TO STA 112+00

PROJECT NO: 04-20-0153
SHEET NO: C-16
DATE: MAY, 2022
PAGE NO: 21 OF 45



GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED STORMWATER MANAGEMENT AND EROSION CONTROL PERMITS AND APPROVALS.
4. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES, AND UTILITY VAULTS TO FINISHED GRADE AS NECESSARY.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES.
6. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING LANDSCAPING AND IRRIGATIONS SYSTEMS. CONTRACTOR SHALL RESTORE/REPAIR LANDSCAPING WHERE NECESSARY.
7. CONTRACTOR SHALL POLYWRAP ALL FITTINGS.
8. CONTRACTOR RESPONSIBLE FOR REPAIR OF ASPHALT AND/OR CONCRETE DAMAGED DURING CONSTRUCTION TO ACCOMMODATE WATERLINE INSTALLATION.
9. ALL VERTICAL DEFLECTIONS SHALL BE DONE VIA JOINT DEFLECTION WITHIN RECOMMENDED MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE NOTED.
10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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NO.	REVISIONS	BY	DATE

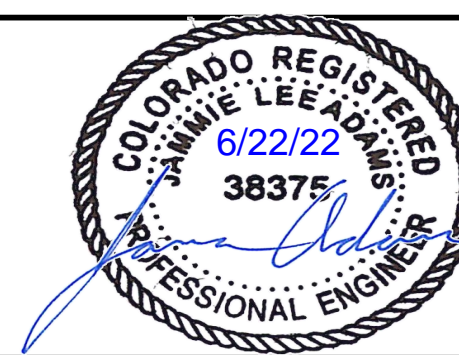
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

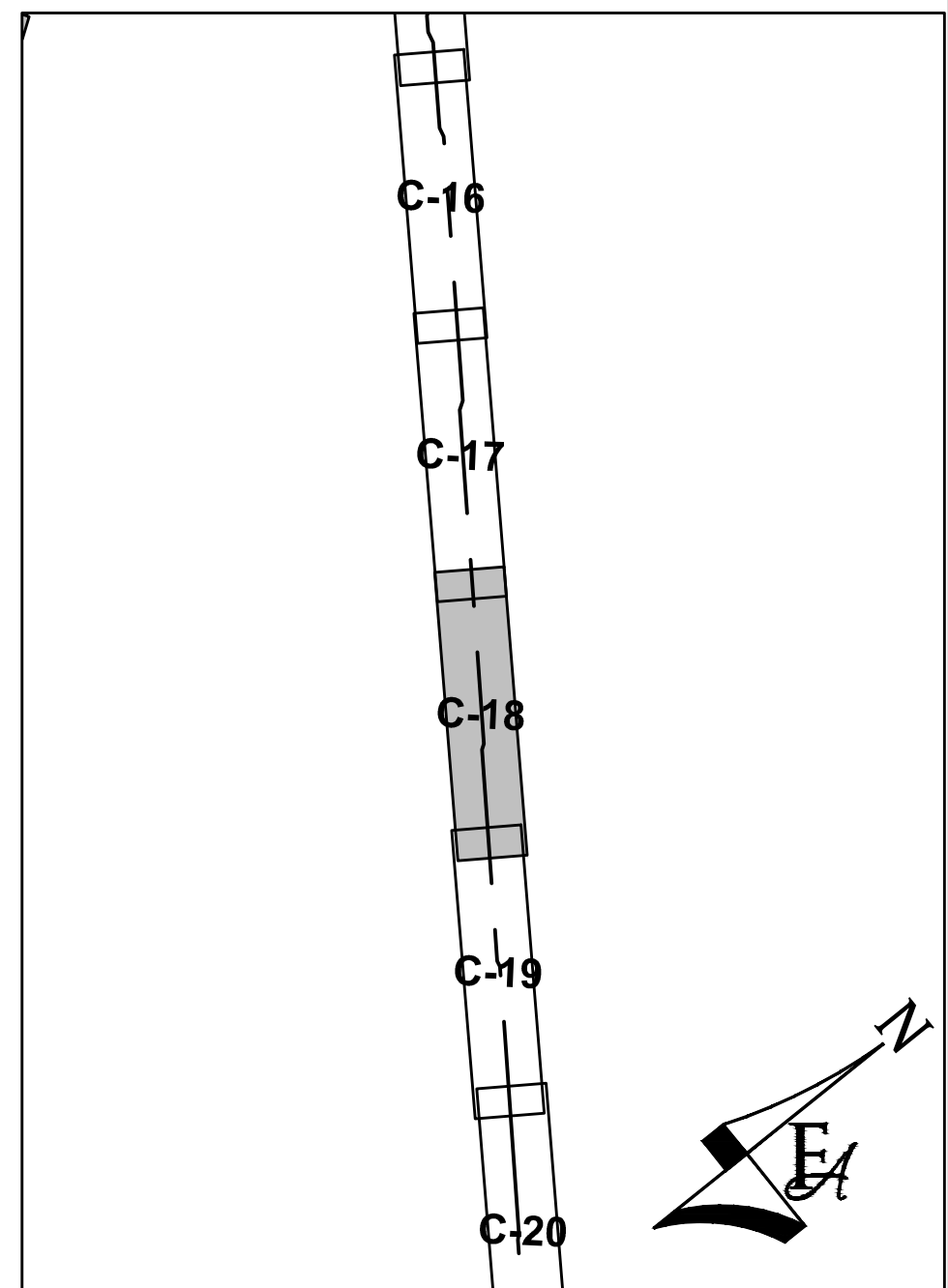
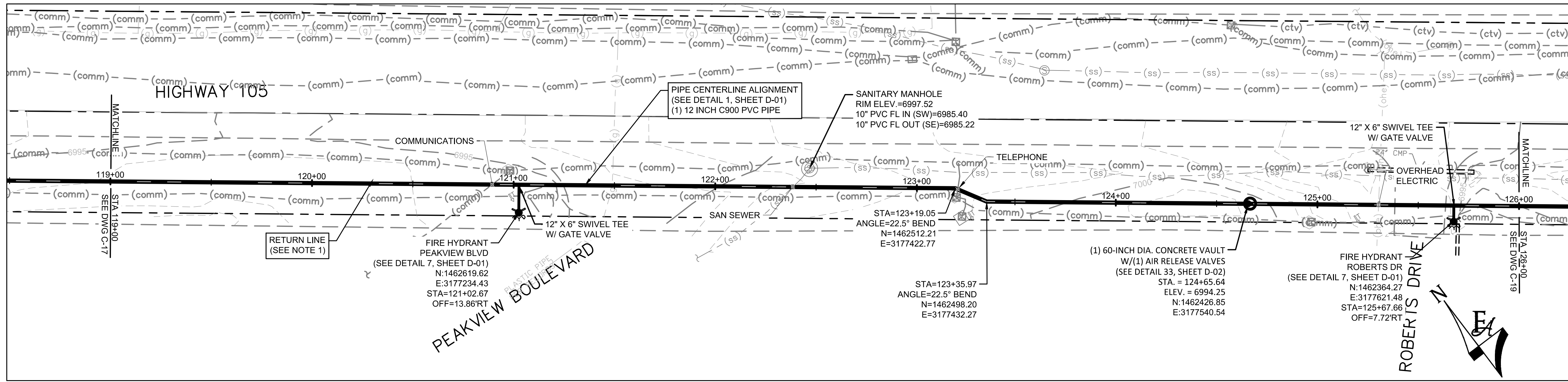


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PH: 720.232.6644



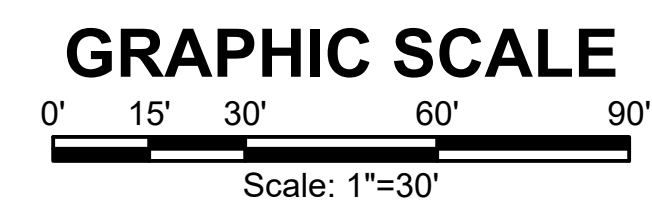
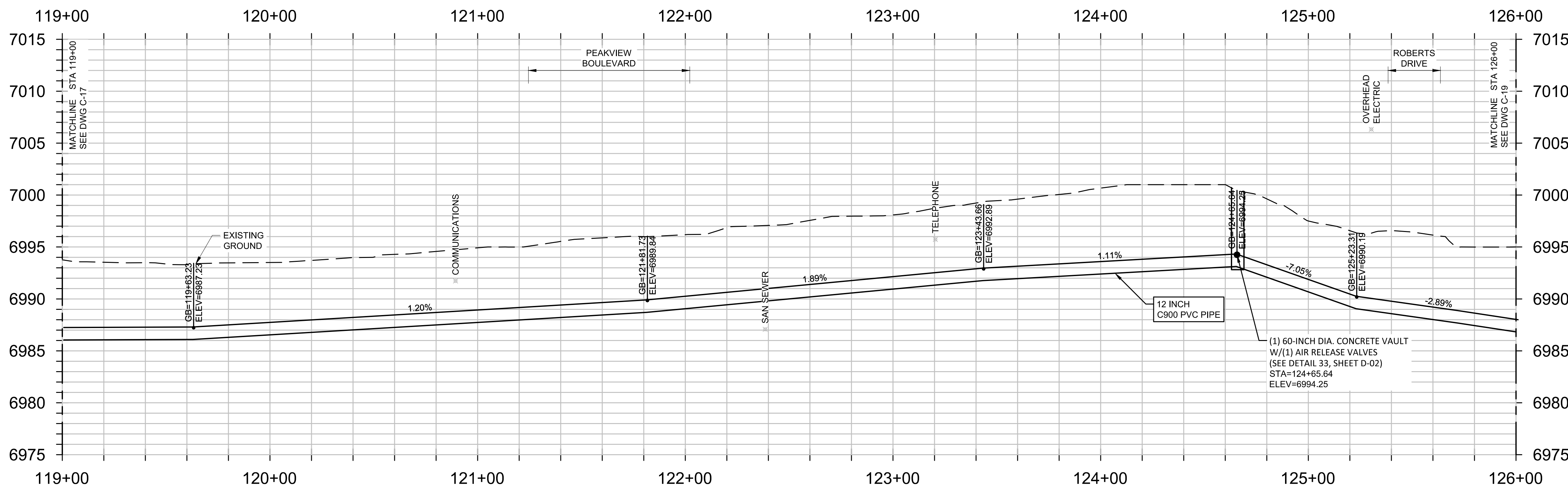
MONUMENT WATERLINE
PLAN AND PROFILE - STA 112+00 TO STA 119+00

PROJECT NO:	04-20-0153
SHEET NO:	C-17
DATE:	MAY, 2022
PAGE NO:	22 OF 45



GENERAL CONSTRUCTION NOTES:

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10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

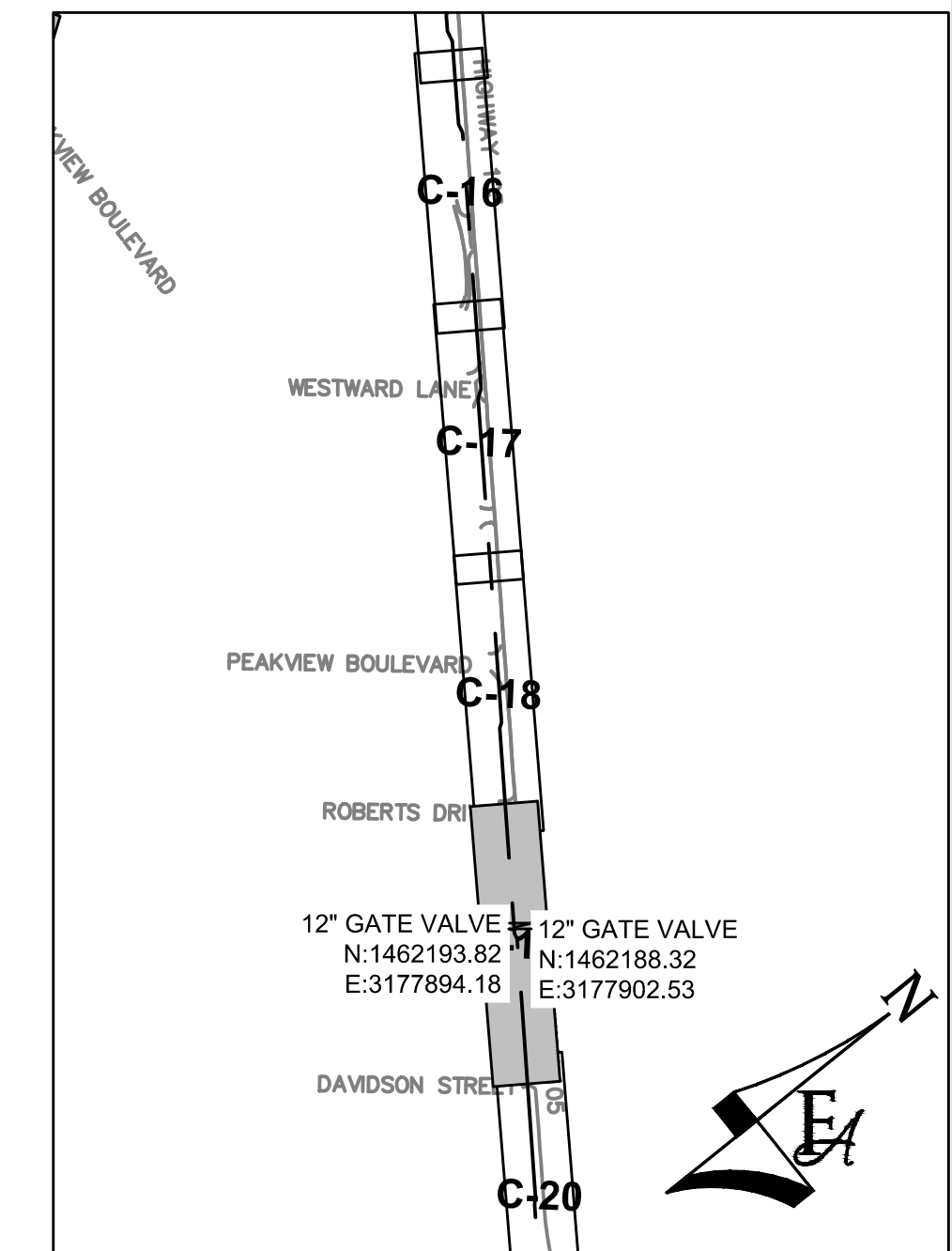
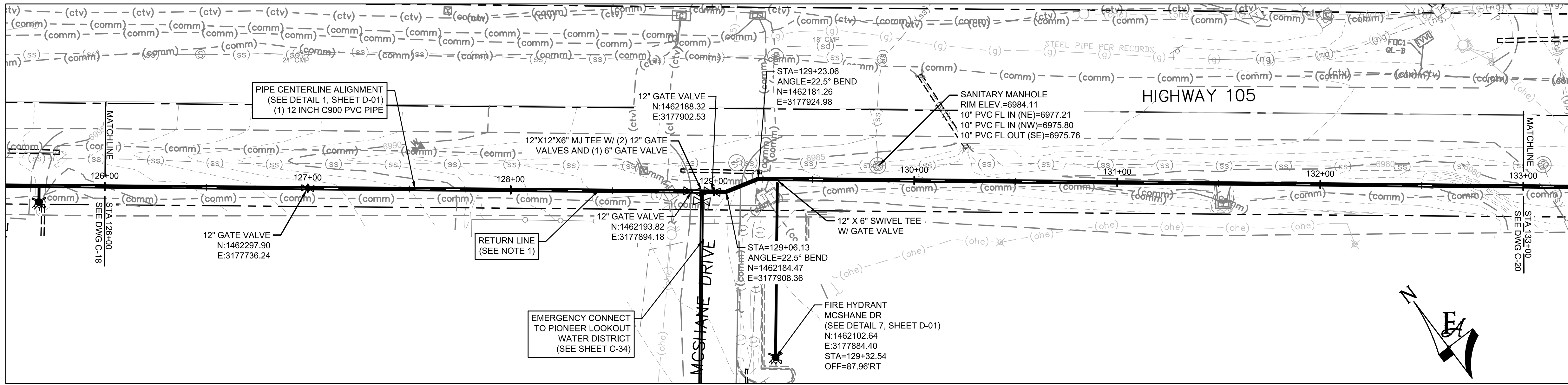


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PH: 720.232.6644

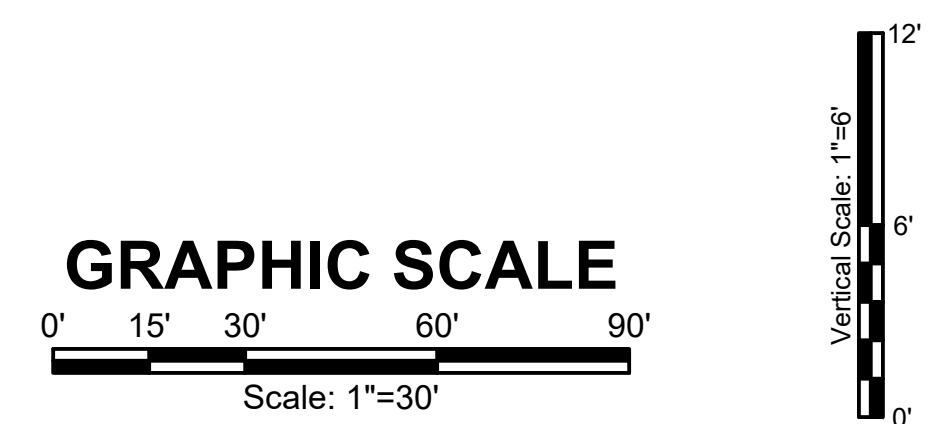
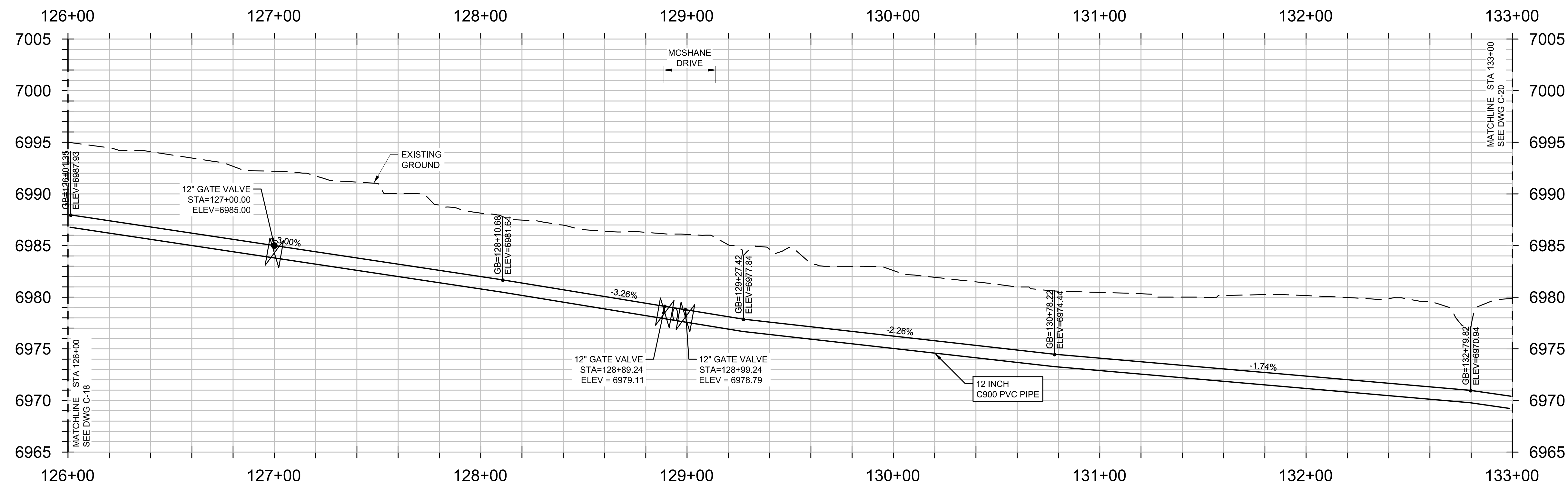


MONUMENT WATERLINE
PLAN AND PROFILE - STA 119+00 TO STA 126+00

PROJECT NO:	04-20-0153
SHEET NO:	C-18
DATE:	MAY, 2022
PAGE NO:	23 OF 45



- GENERAL CONSTRUCTION NOTES:**
1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
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NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

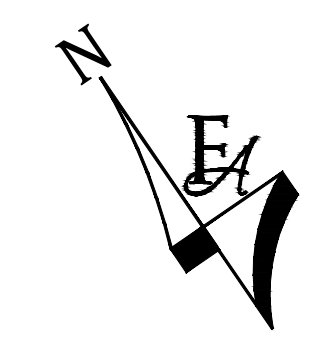
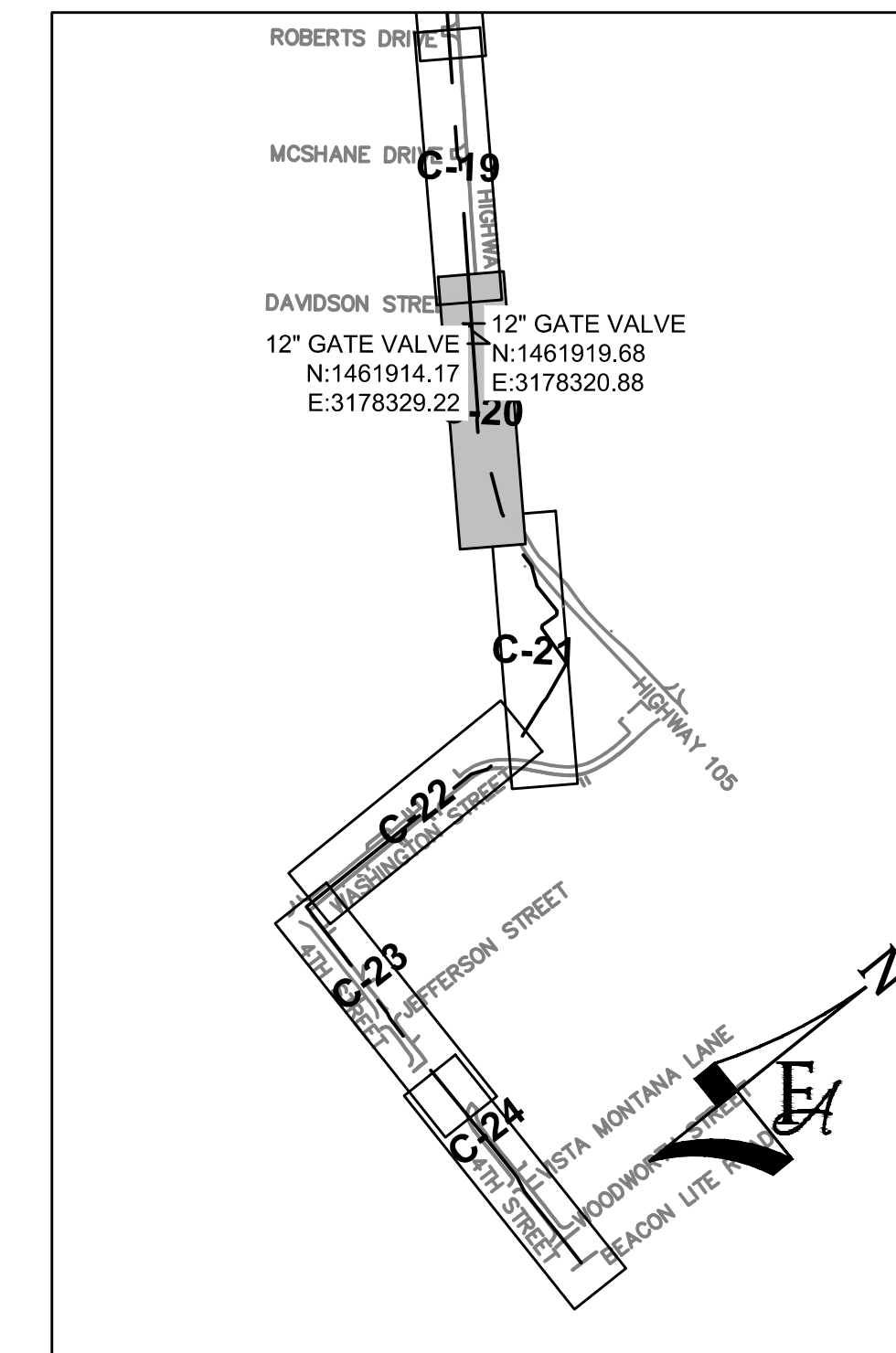
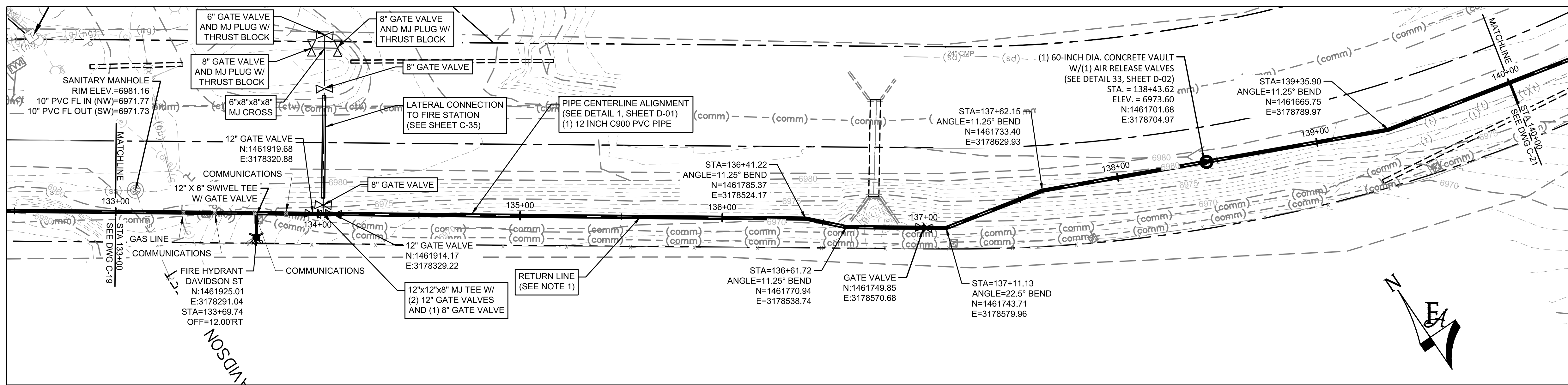


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PH: 720.232.6644

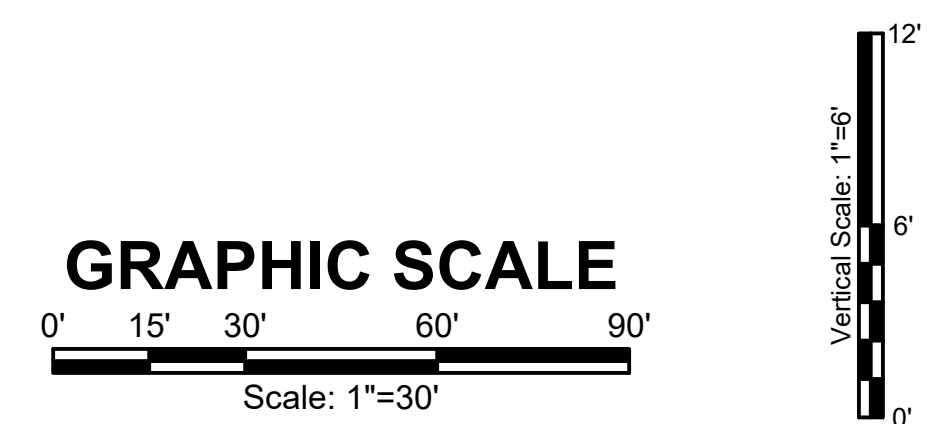
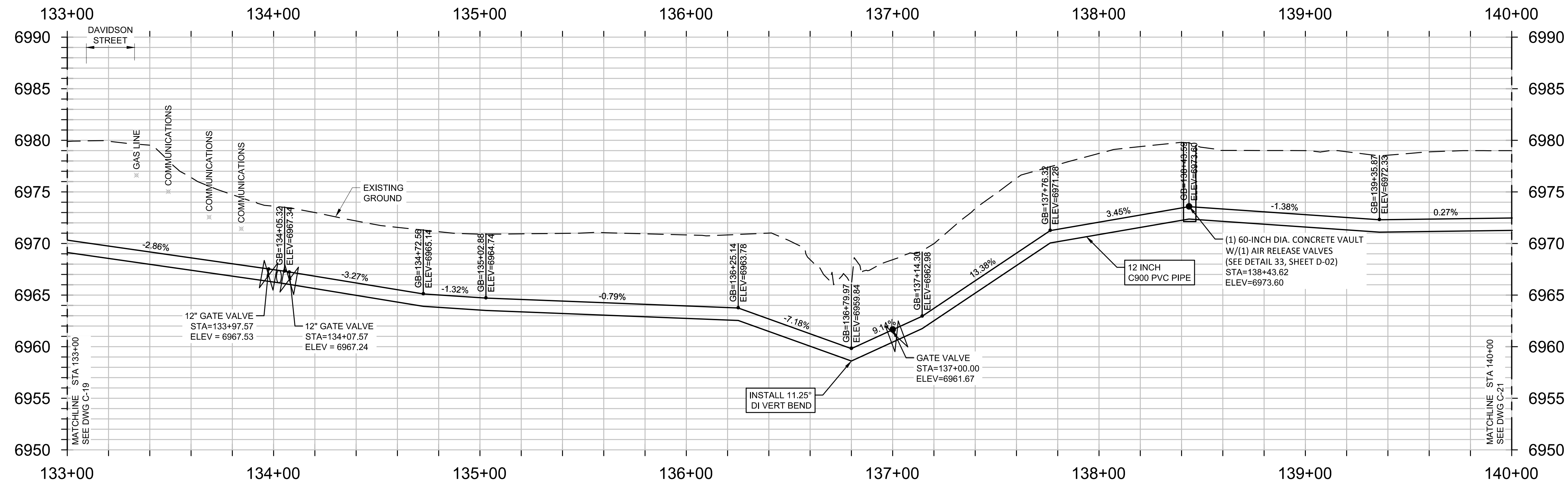


MONUMENT WATERLINE
PLAN AND PROFILE - STA 126+00 TO STA 133+00

PROJECT NO:	04-20-0153
SHEET NO:	C-19
DATE:	MAY, 2022
PAGE NO:	24 OF 45



- GENERAL CONSTRUCTION NOTES:**
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NO.	REVISIONS	BY	DATE

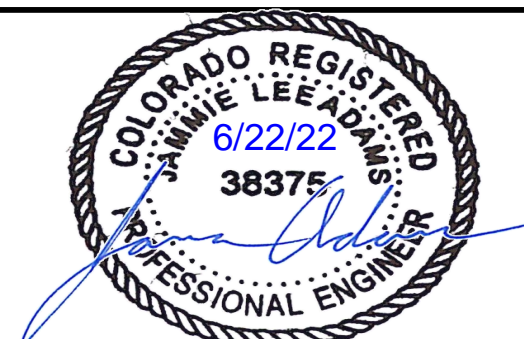
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

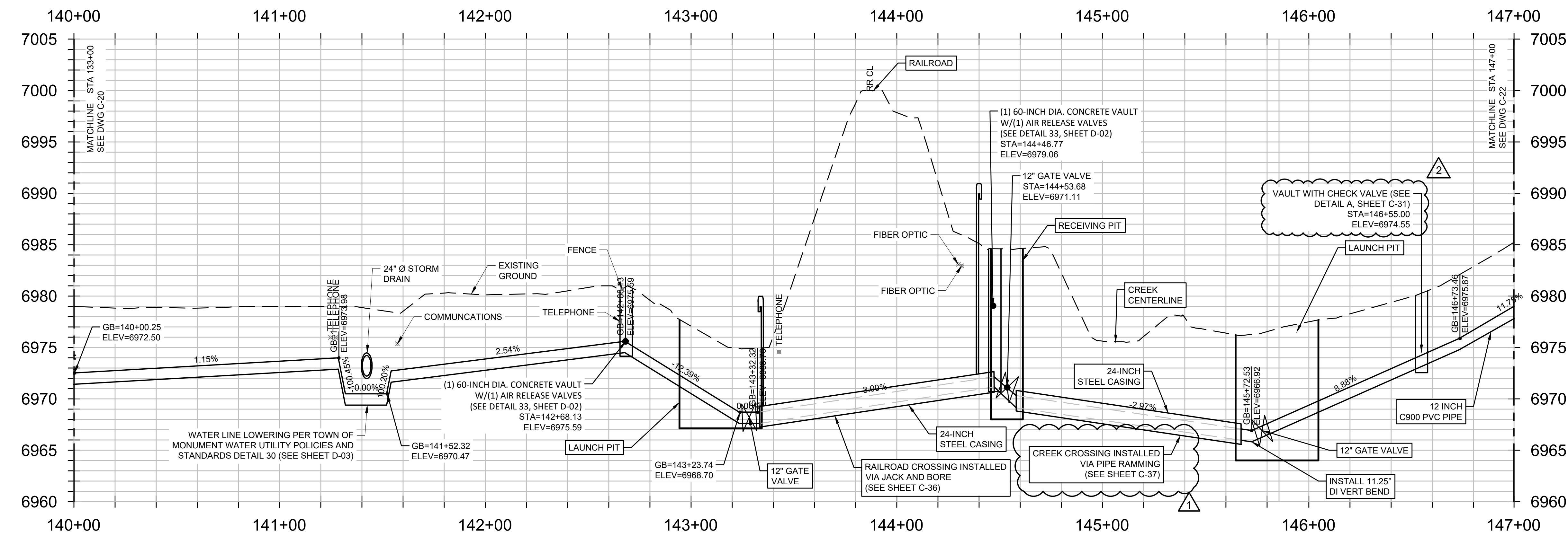
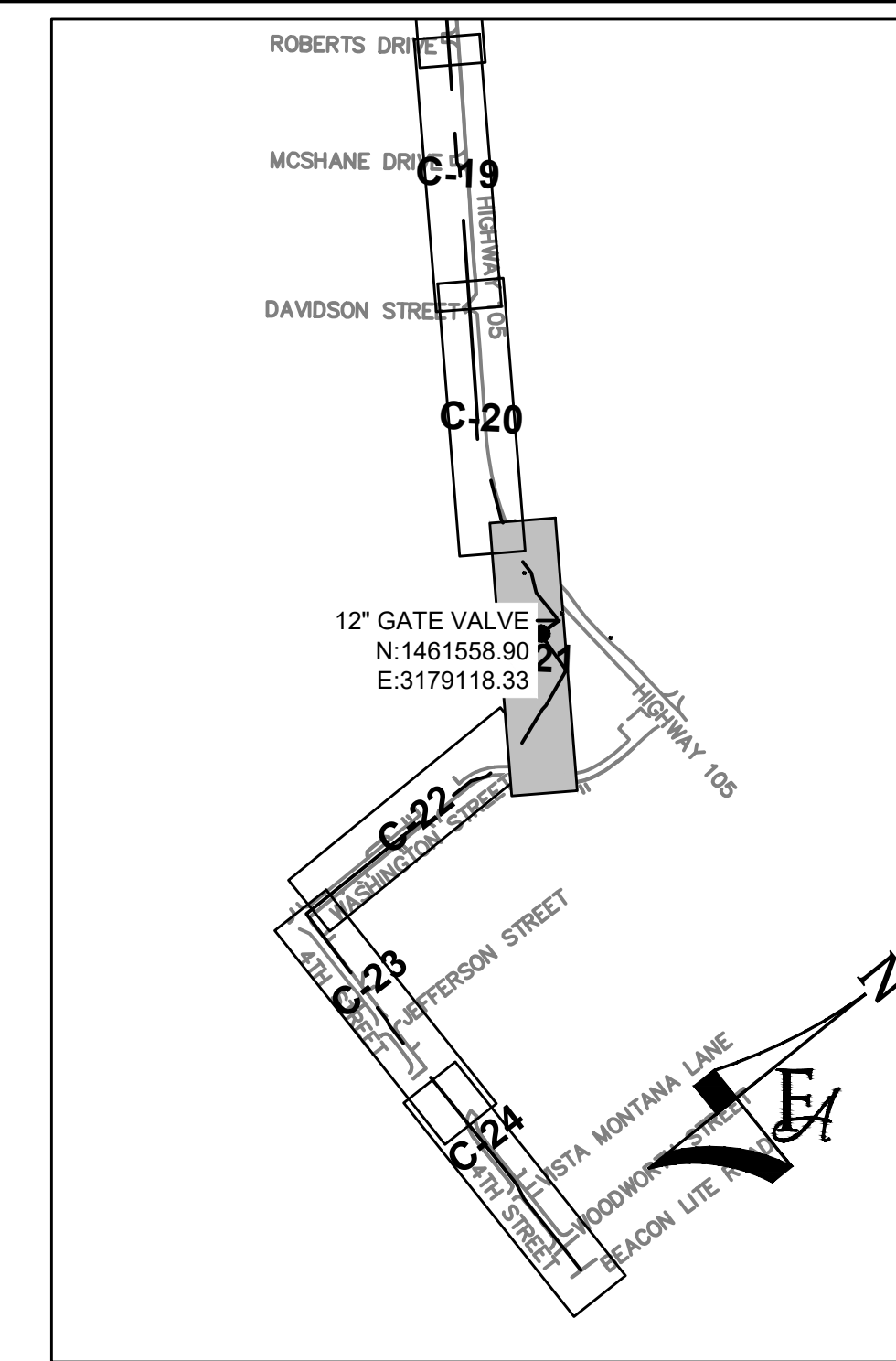
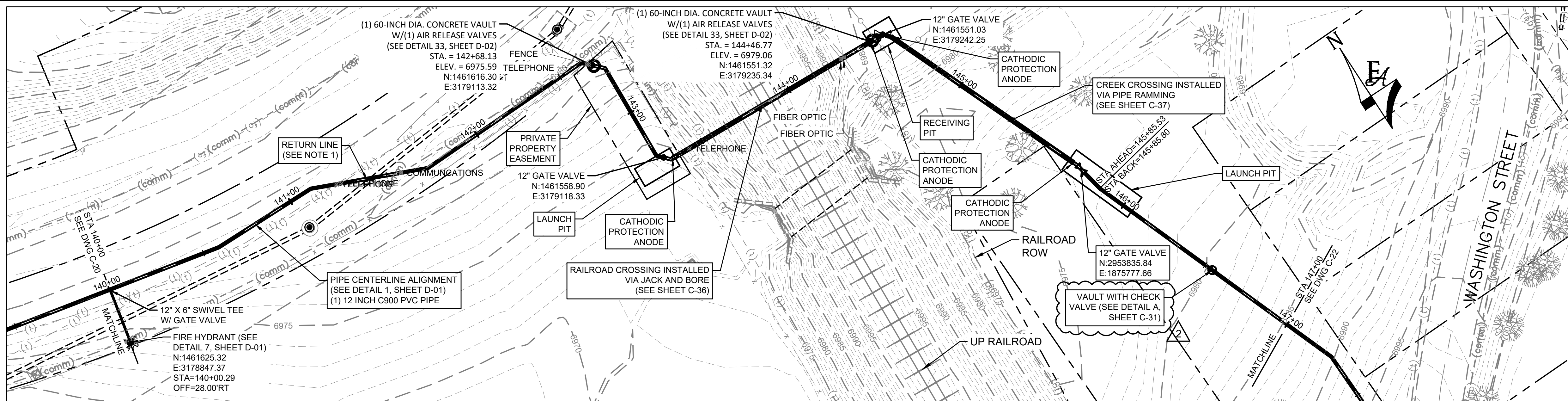


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PH: 720.232.6644

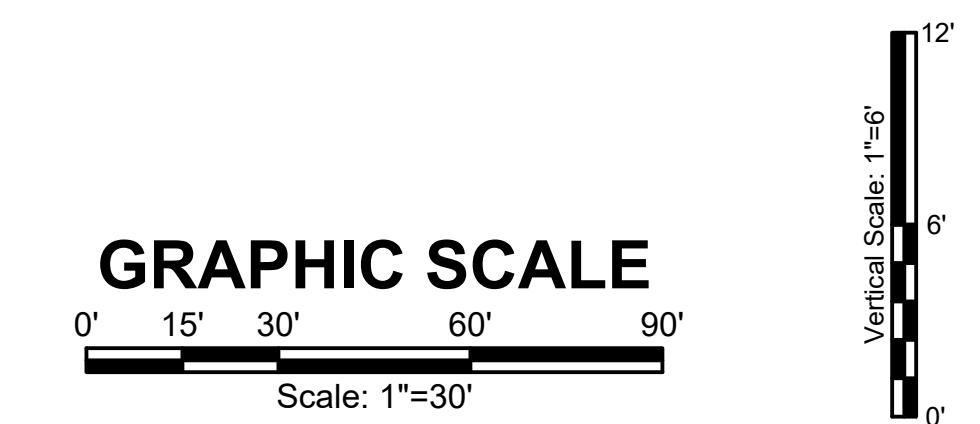


MONUMENT WATERLINE
PLAN AND PROFILE - STA 133+00 TO STA 140+00

PROJECT NO:	04-20-0153
SHEET NO:	C-20
DATE:	MAY, 2022
PAGE NO:	25 OF 45



- GENERAL CONSTRUCTION NOTES:**
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NO.	REVISIONS	BY	DATE
2	CHECK VALVE VAULT ADDED	CPB	06/22
1	ADDENDUM 2	JA	06/22

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

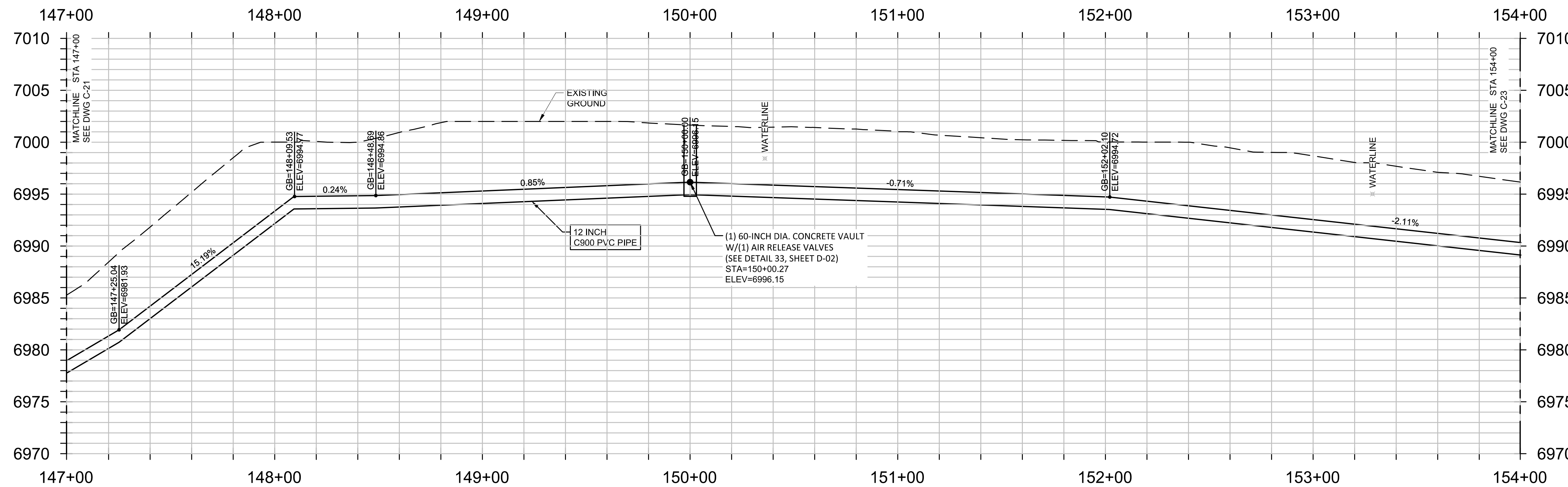
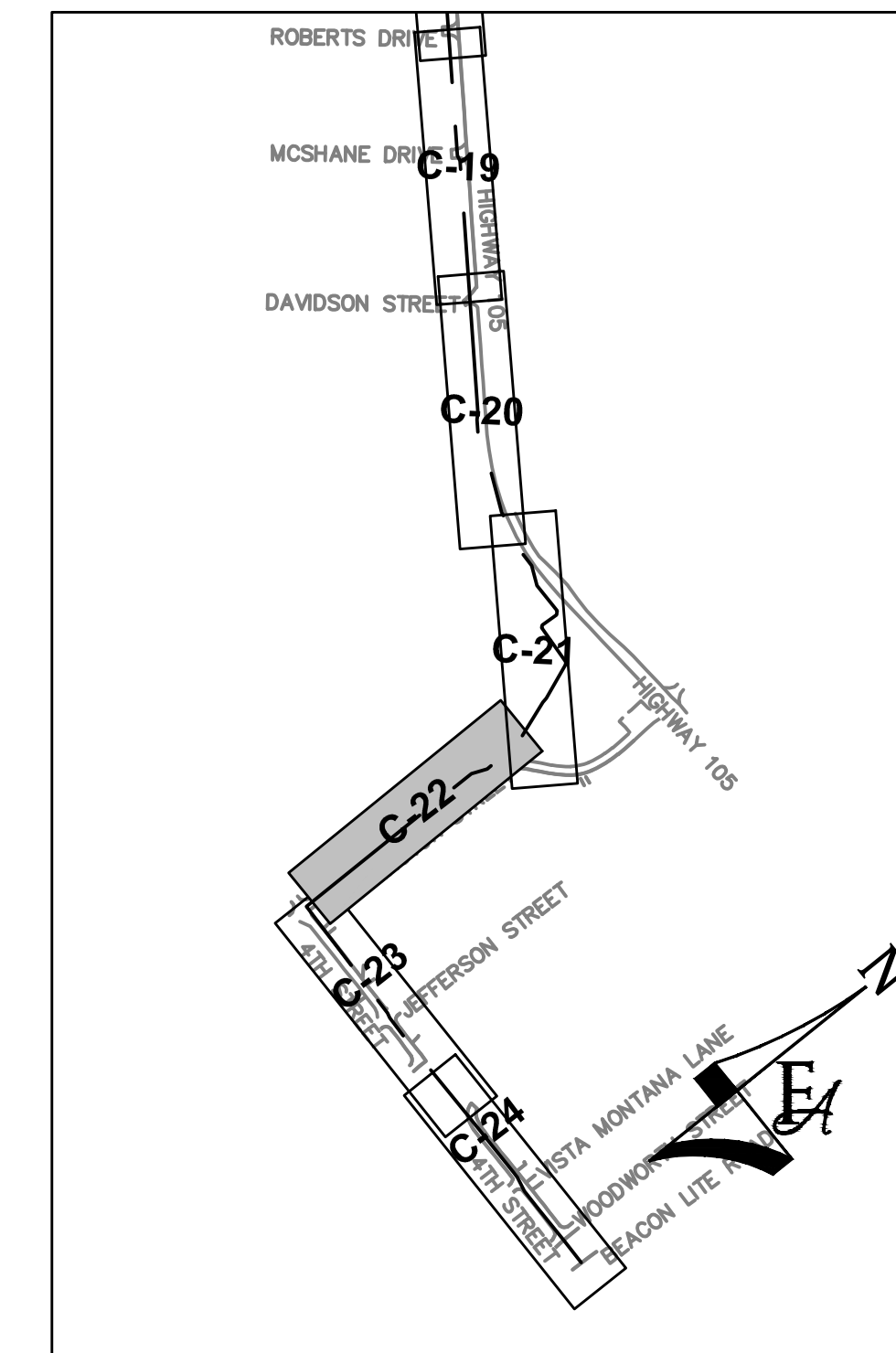
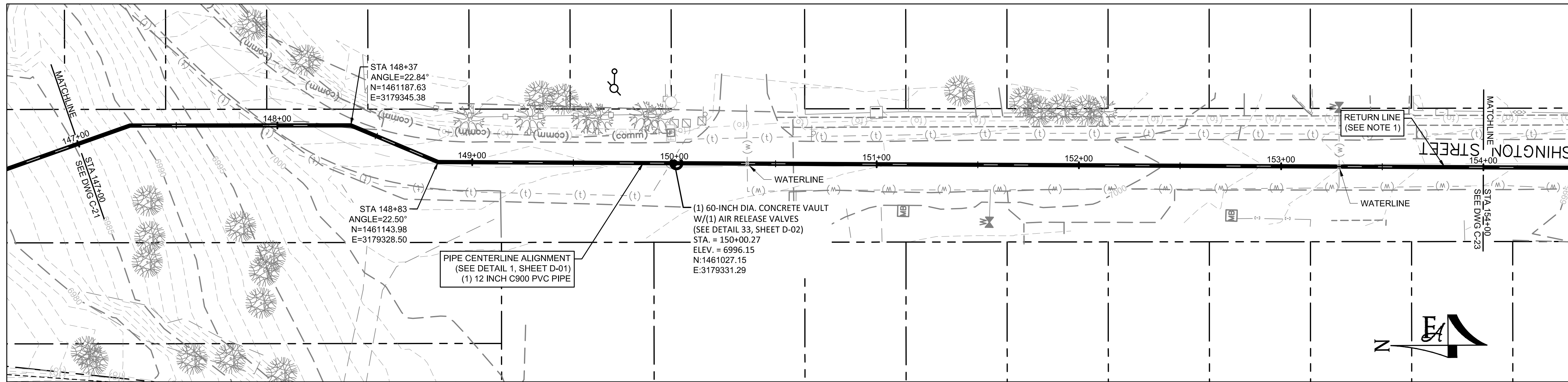


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PH: 720.232.6644

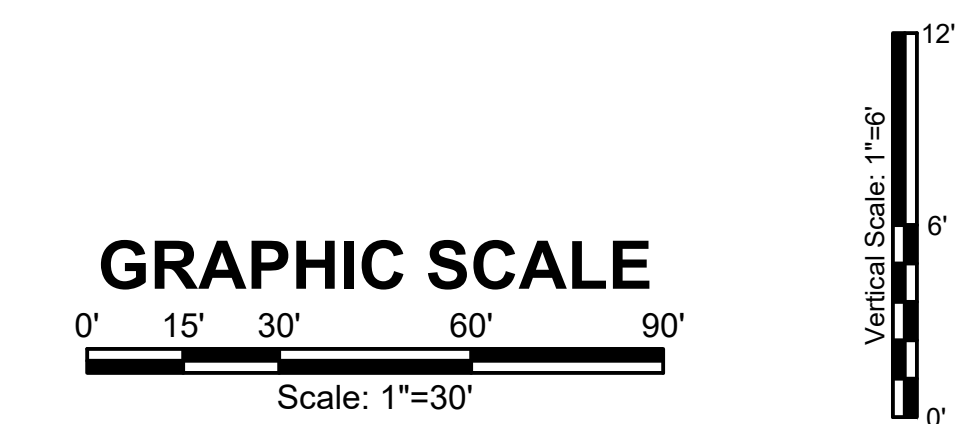


MONUMENT WATERLINE
PLAN AND PROFILE - STA 140+00 TO STA 147+00

PROJECT NO:	04-20-0153
SHEET NO:	C-21
DATE:	MAY, 2022
PAGE NO:	26 OF 45



- GENERAL CONSTRUCTION NOTES:**
- CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
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NO.	REVISIONS	BY	DATE

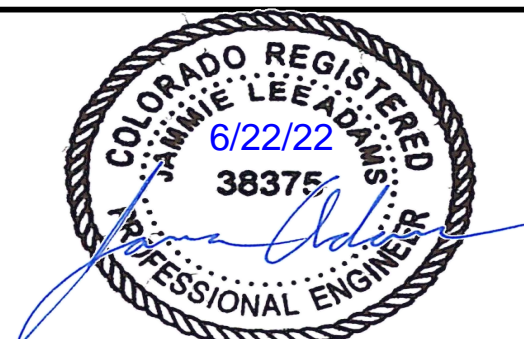
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

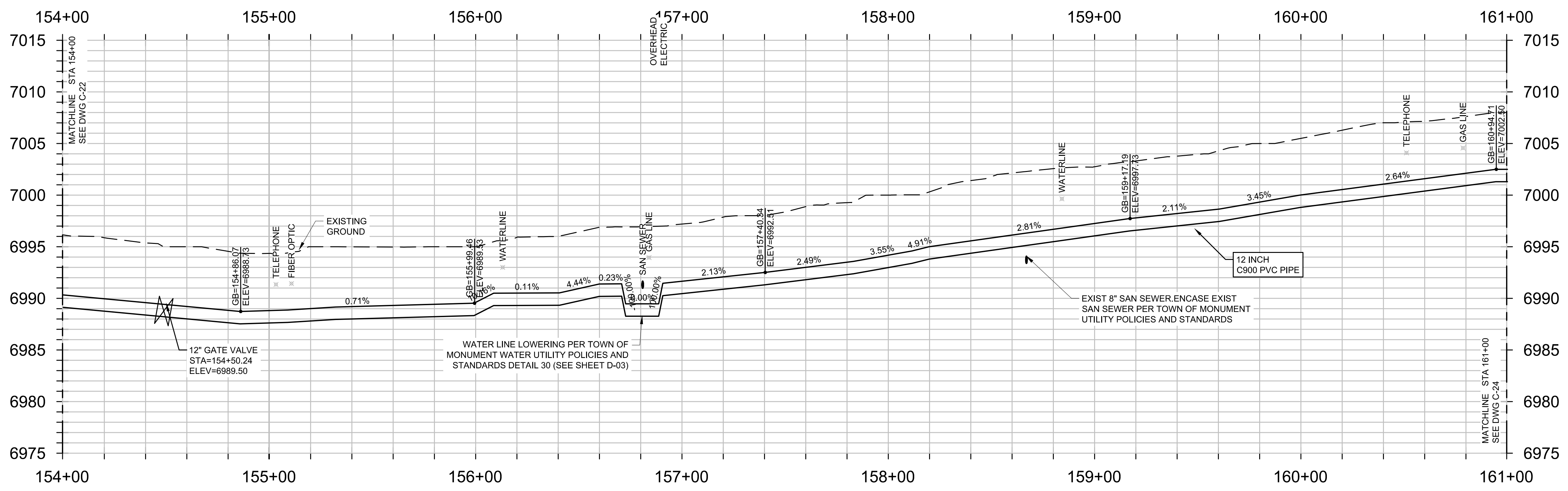
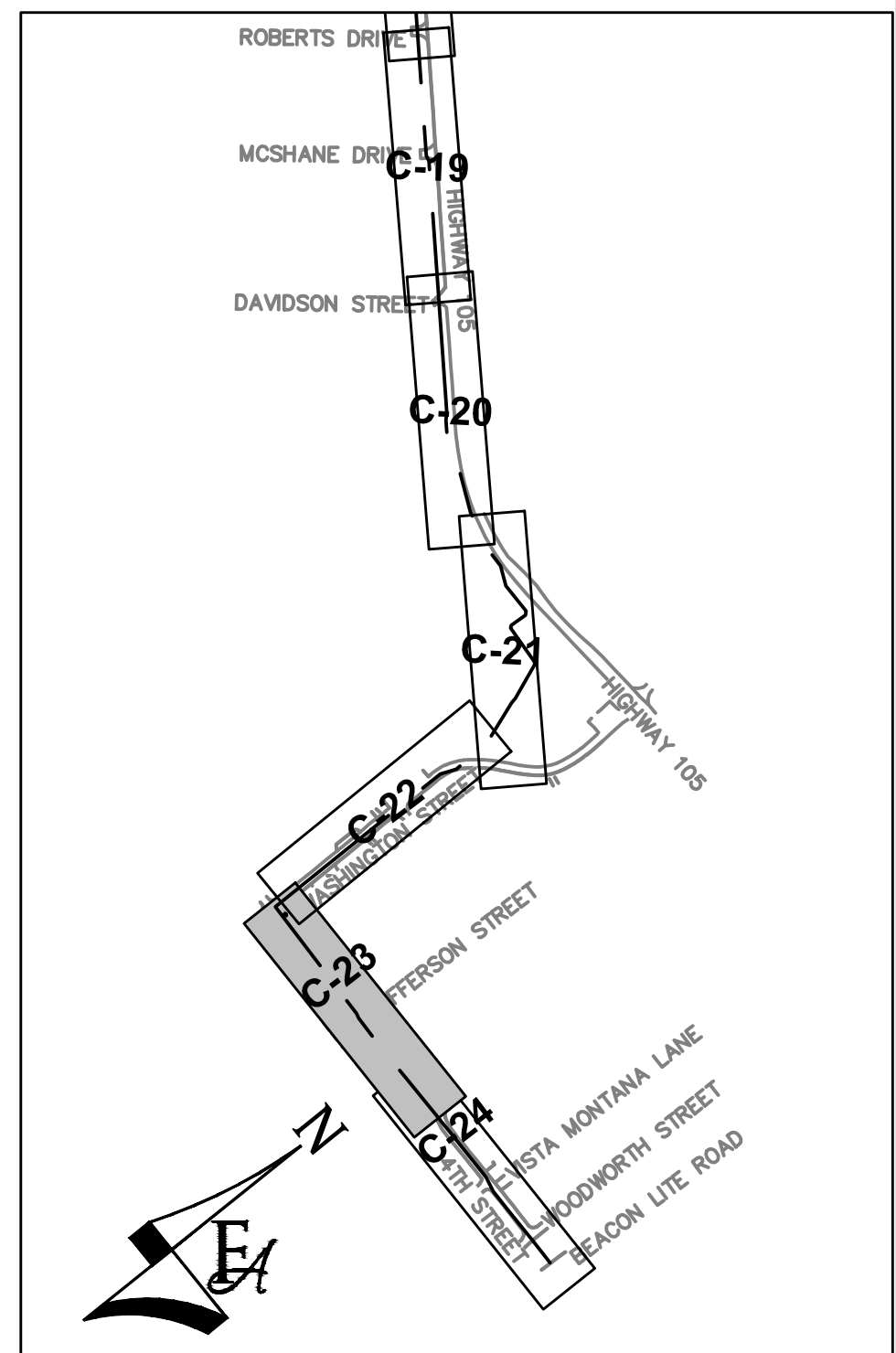
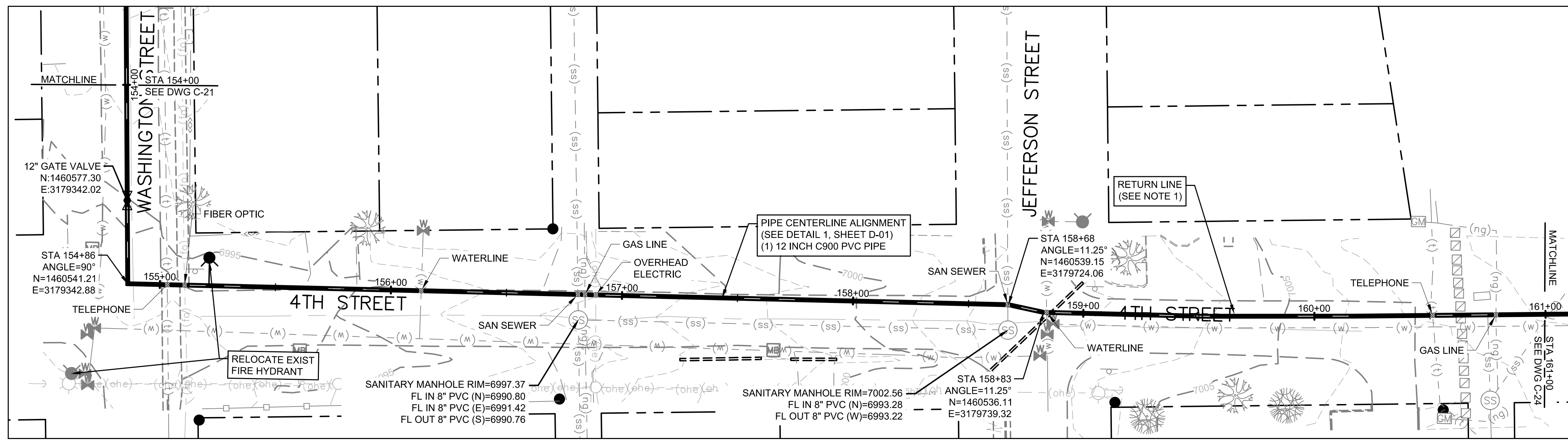


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PH: 720.232.6644

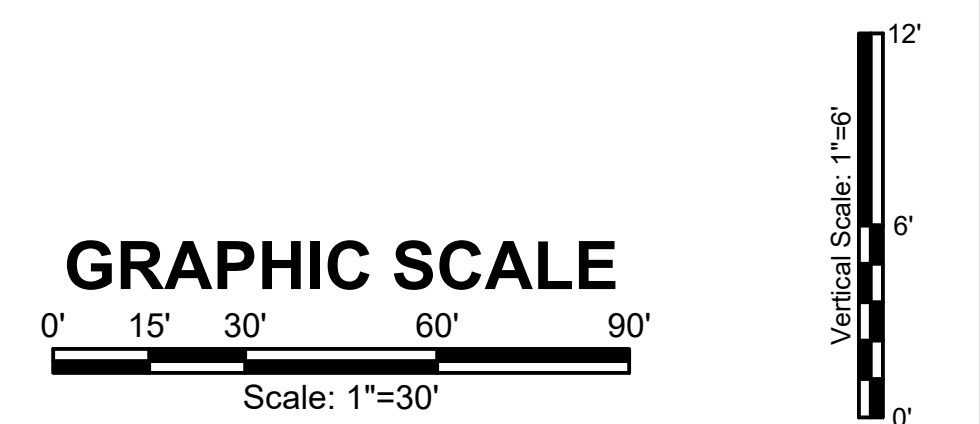


MONUMENT WATERLINE
PLAN AND PROFILE - STA 147+00 TO STA 154+00

PROJECT NO: 04-20-0153	PAGE NO: 27 OF 45
SHEET NO: C-22	DATE: MAY, 2022



- GENERAL CONSTRUCTION NOTES:**
1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
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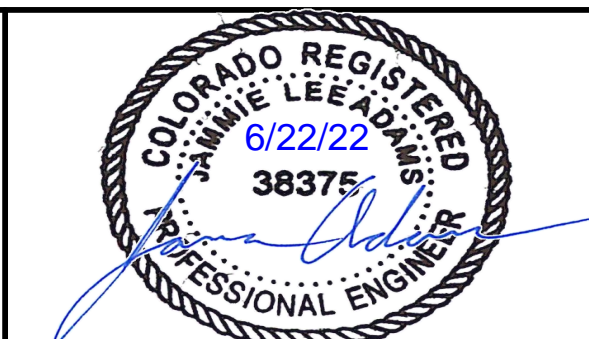
P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-23 PLAN AND PROFILE - 23.dwg - 5/10/2022 4:43 PM

NO.	REVISIONS	BY	DATE

DRAWN _____ S. CALE
 DESIGNED _____ DESIGNED BY
 APPROVED _____ APPROVED BY
 QA _____ QA BY

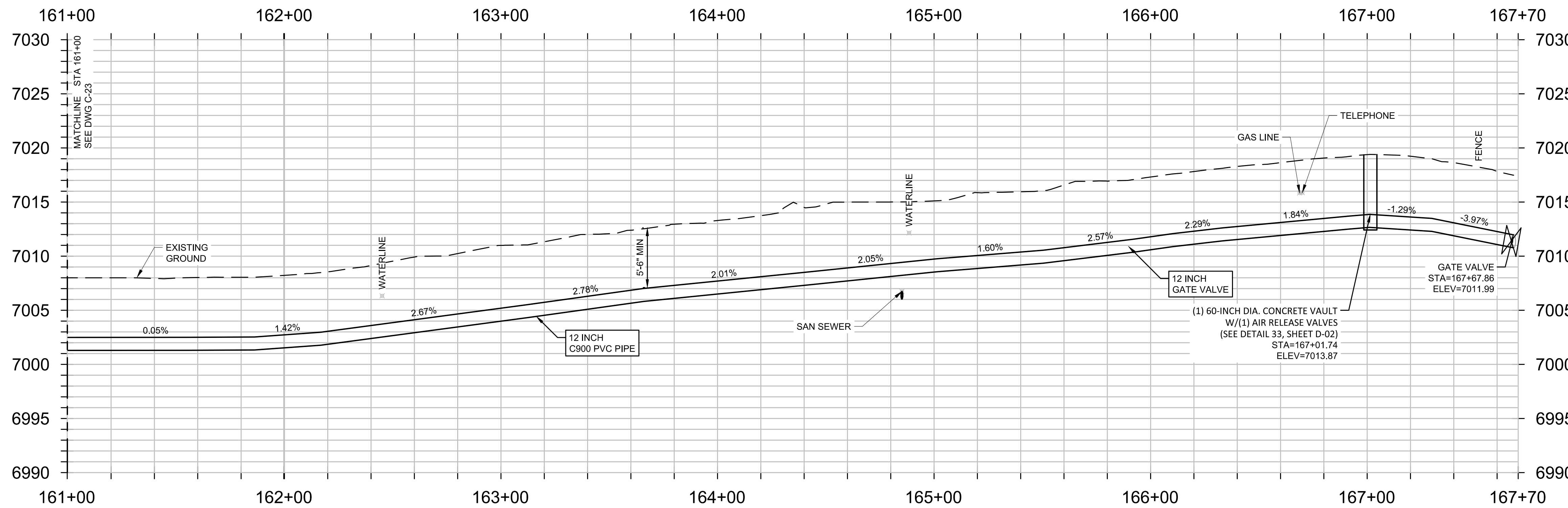
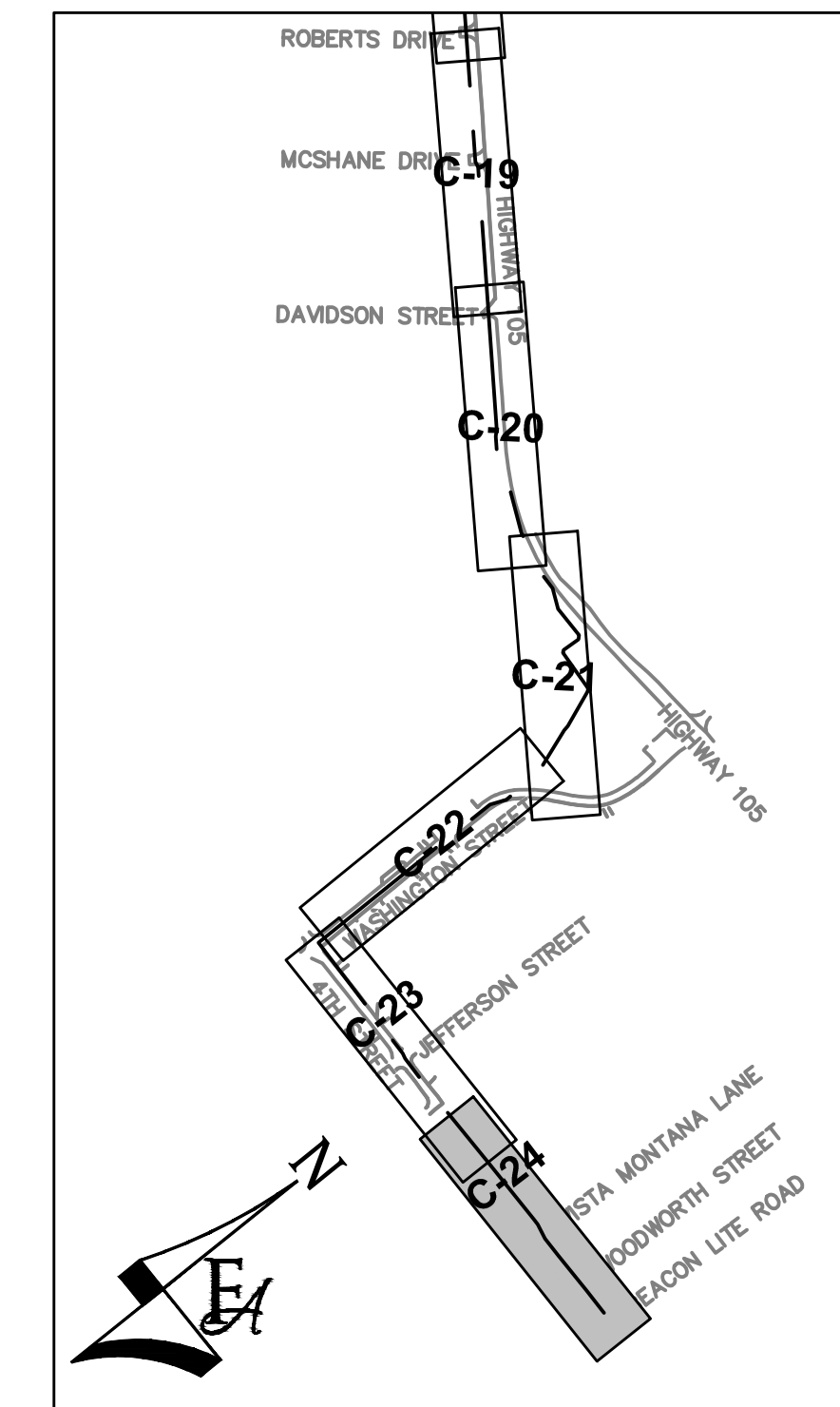
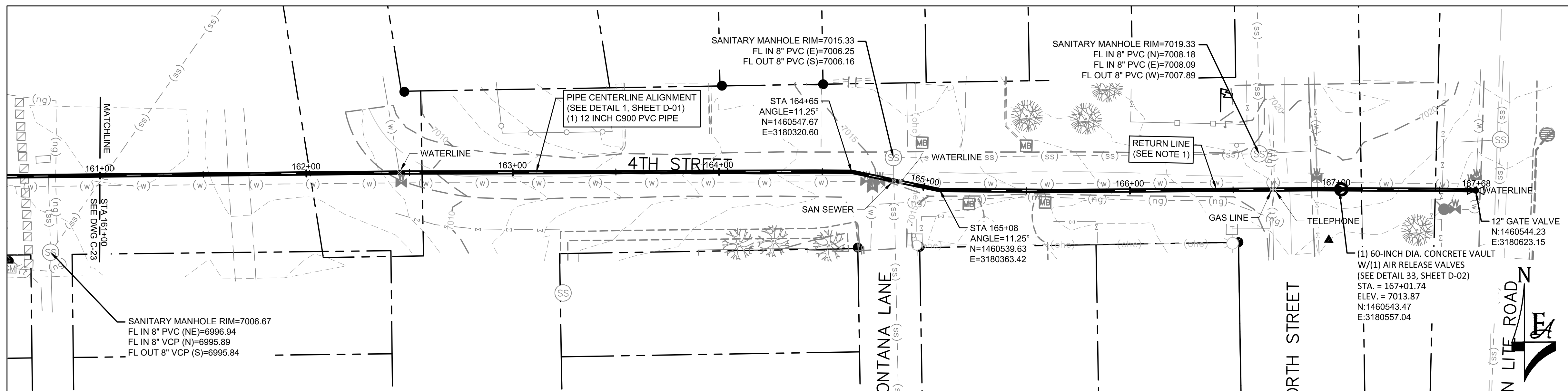


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 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720.232.6644

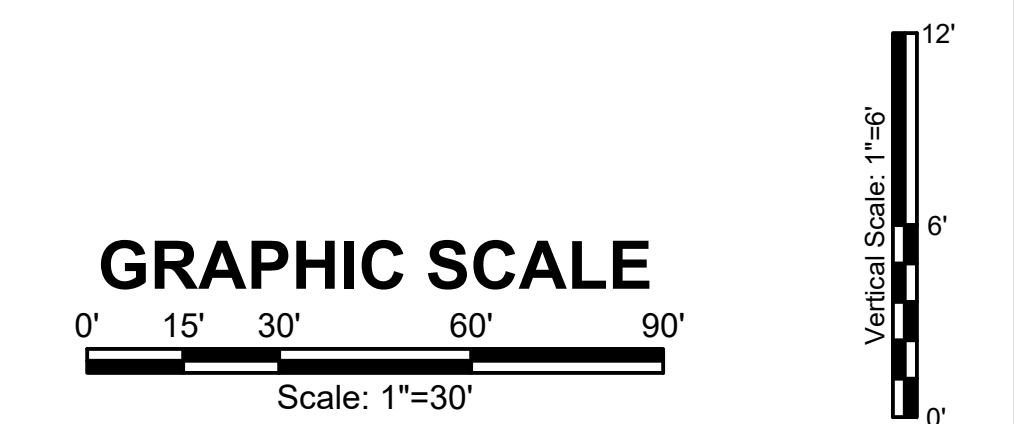


MONUMENT WATERLINE
PLAN AND PROFILE - STA 154+00 TO STA 161+00

PROJECT NO: **04-20-0153**
 SHEET NO: **C-23**
 DATE: MAY, 2022
 PAGE NO: 28 OF 45



- GENERAL CONSTRUCTION NOTES:**
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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-24 PLAN AND PROFILE - 24.dwg - 5/5/2022 4:09 PM

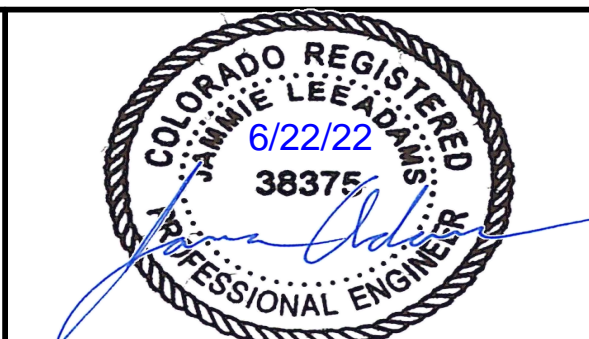
NO.	REVISIONS	BY	DATE

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

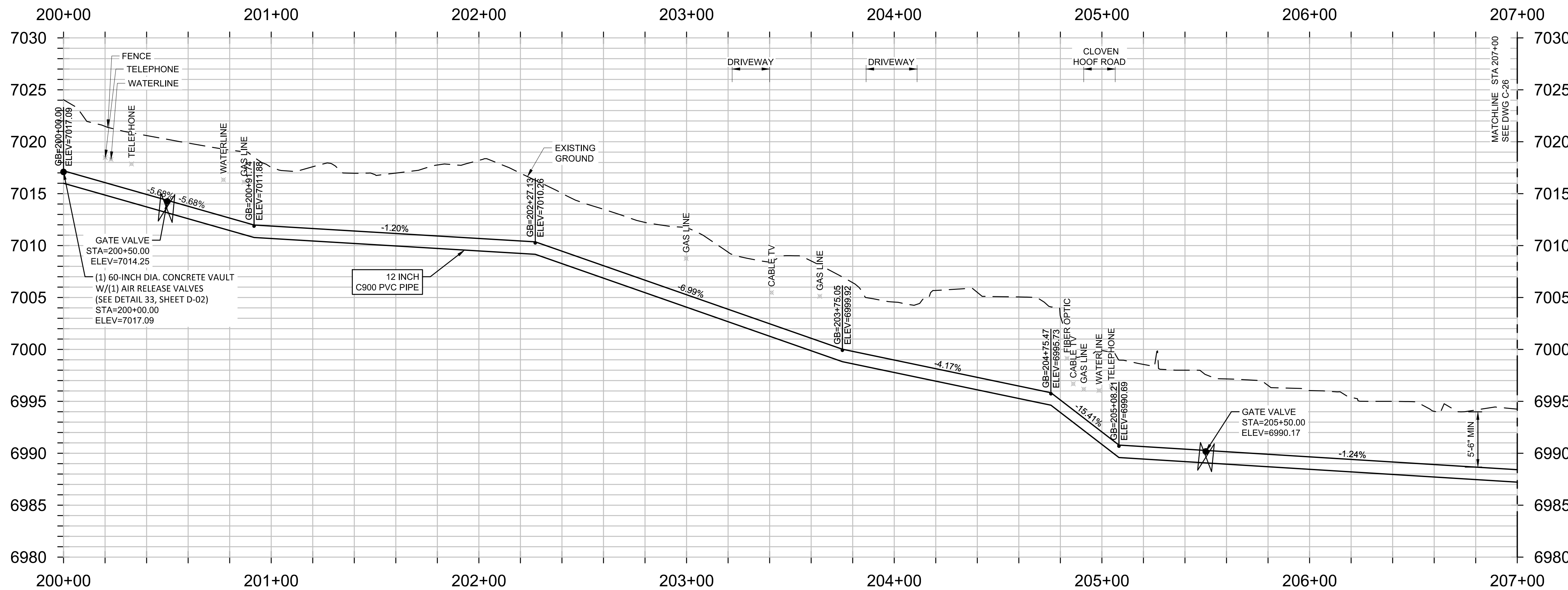
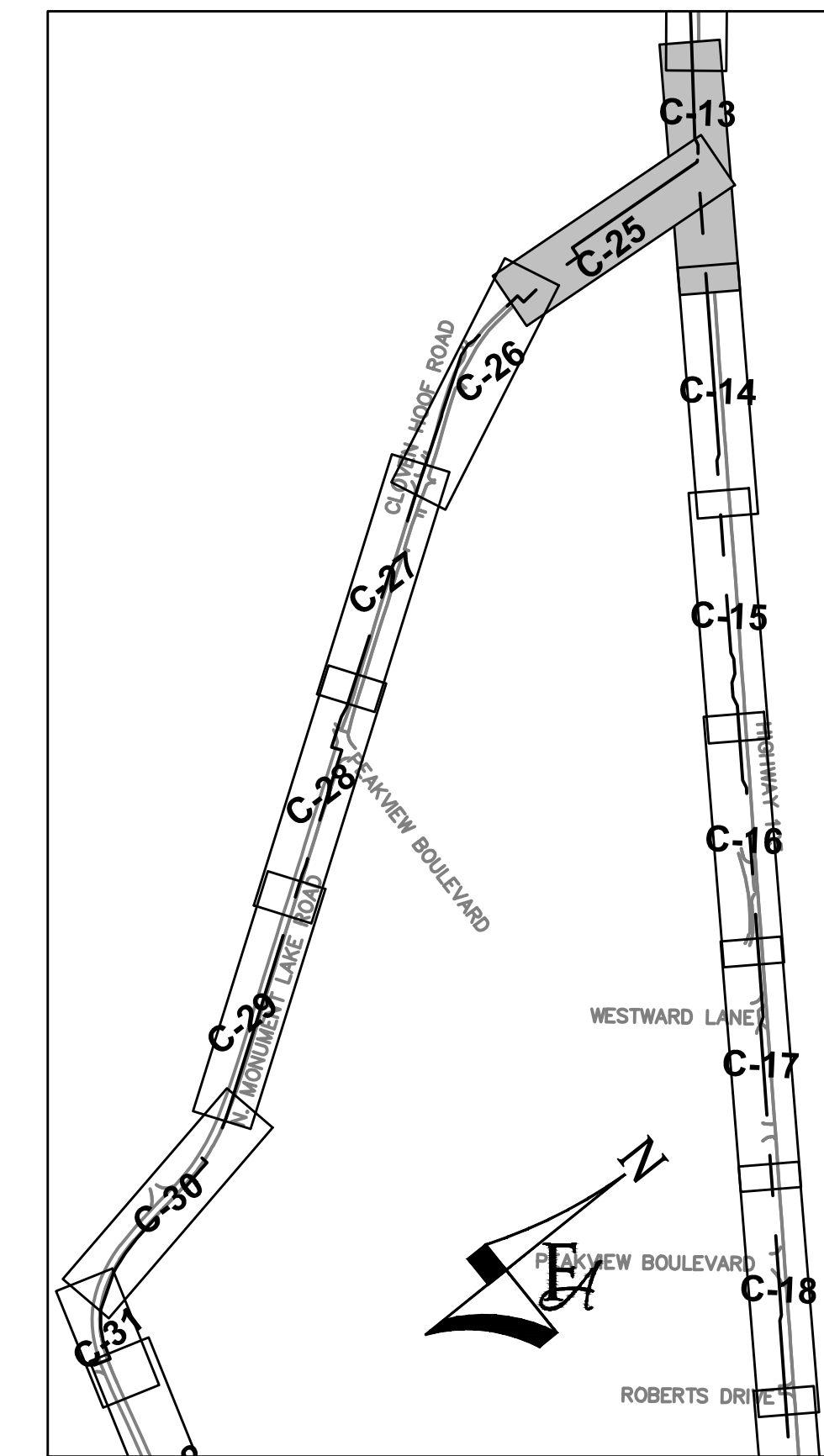
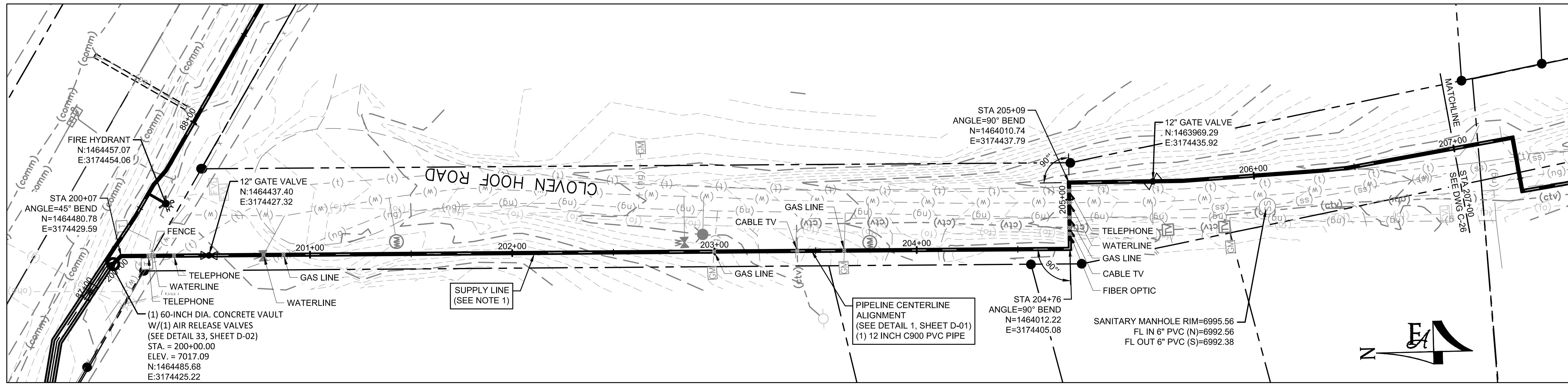


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PH: 720.232.6644



MONUMENT WATERLINE
PLAN AND PROFILE - STA 161+00 TO STA 168+00

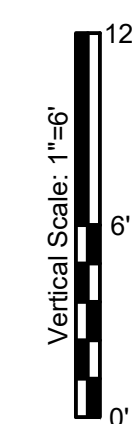
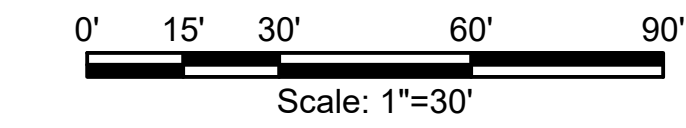
PROJECT NO: **04-20-0153**
SHEET NO: **C-24**
DATE: MAY, 2022
PAGE NO: 29 OF 45



GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED STORMWATER MANAGEMENT AND EROSION CONTROL PERMITS AND APPROVALS.
4. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES, AND UTILITY VAULTS TO FINISHED GRADE AS NECESSARY.
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7. CONTRACTOR SHALL POLYWRAP ALL FITTINGS.
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10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.

GRAPHIC SCALE



P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-25 PLAN AND PROFILE - 25.dwg - 5/5/2022 6:39 PM

NO.	REVISIONS	BY	DATE

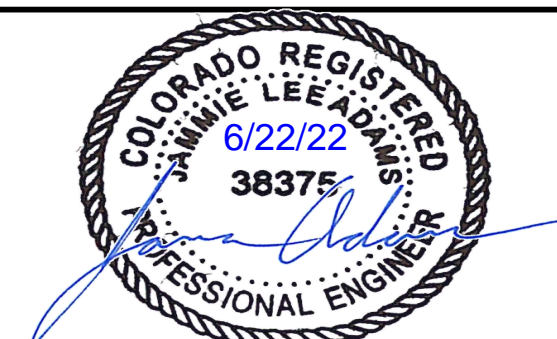
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID



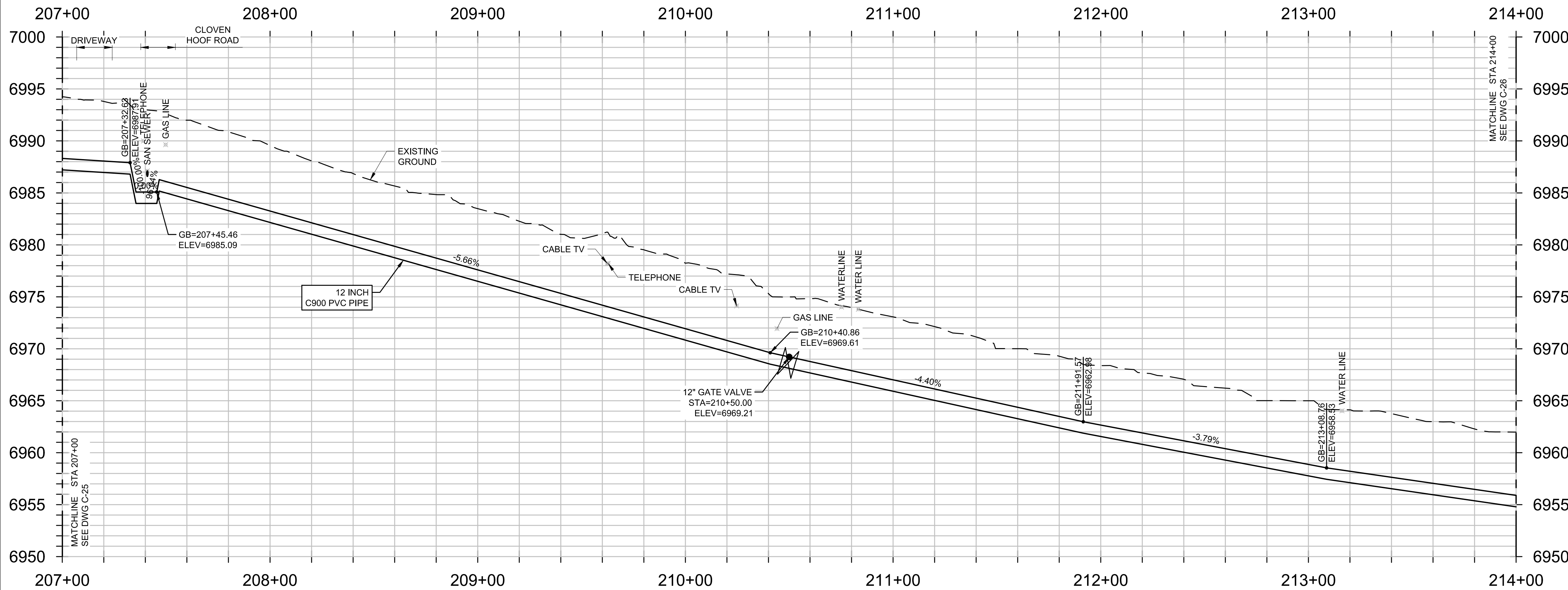
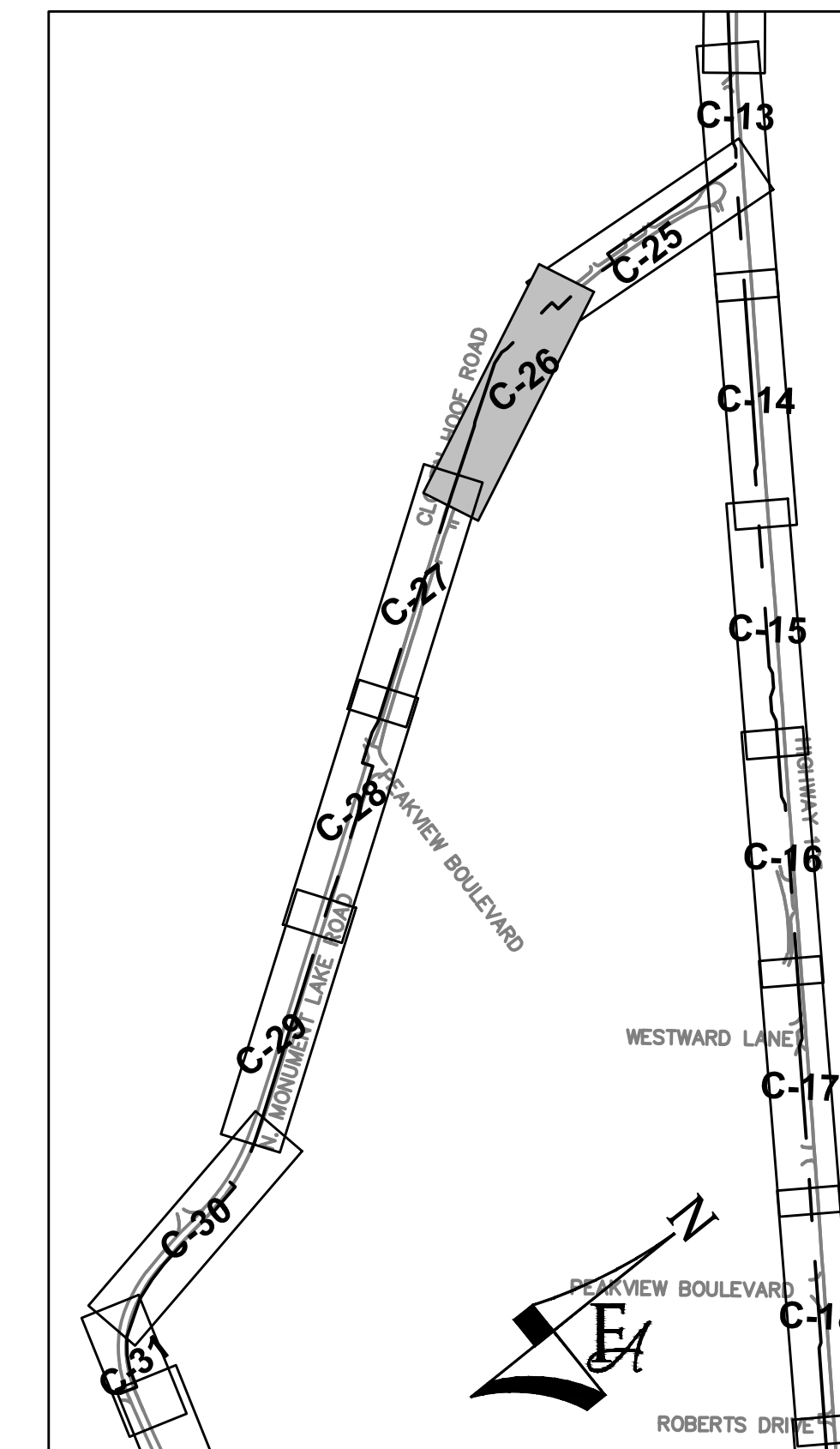
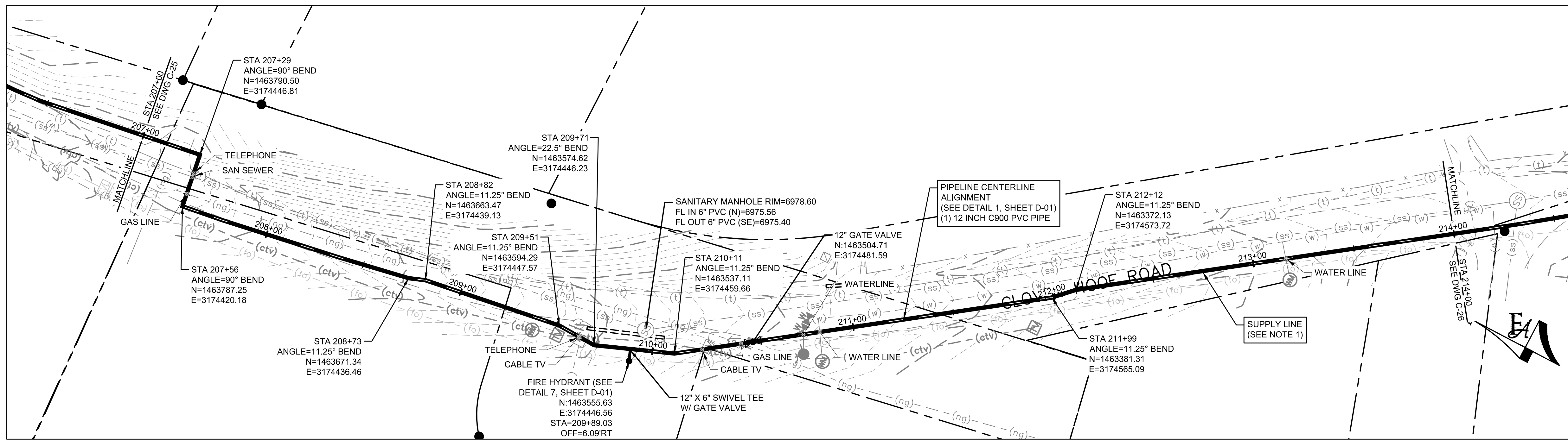
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56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



MONUMENT WATERLINE

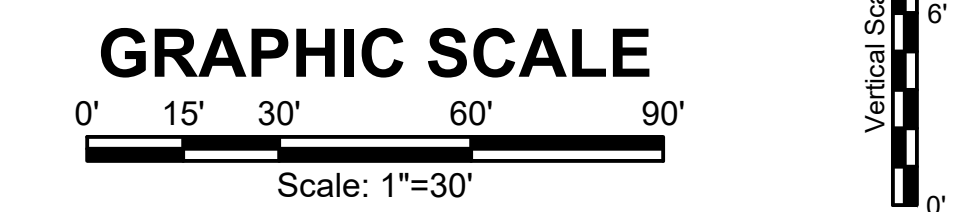
PLAN AND PROFILE - STA 200+00 TO STA 207+00

PROJECT NO:	04-20-0153
SHEET NO:	C-25
DATE:	MAY, 2022
PAGE NO:	30 OF 45



GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-26 PLAN AND PROFILE - 26.dwg - 6/22/2022 6:33 PM

NO.	REVISIONS	BY	DATE

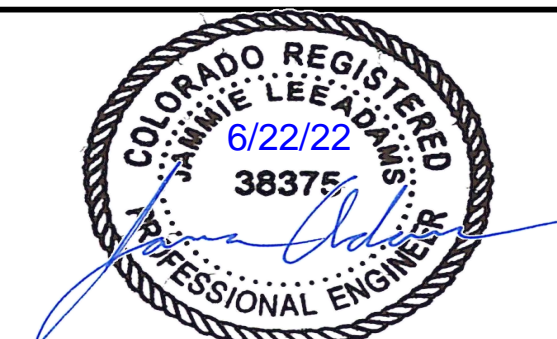
DRAWN S. CALE
 DESIGNED DESIGNED BY
 APPROVED APPROVED BY
 QA QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

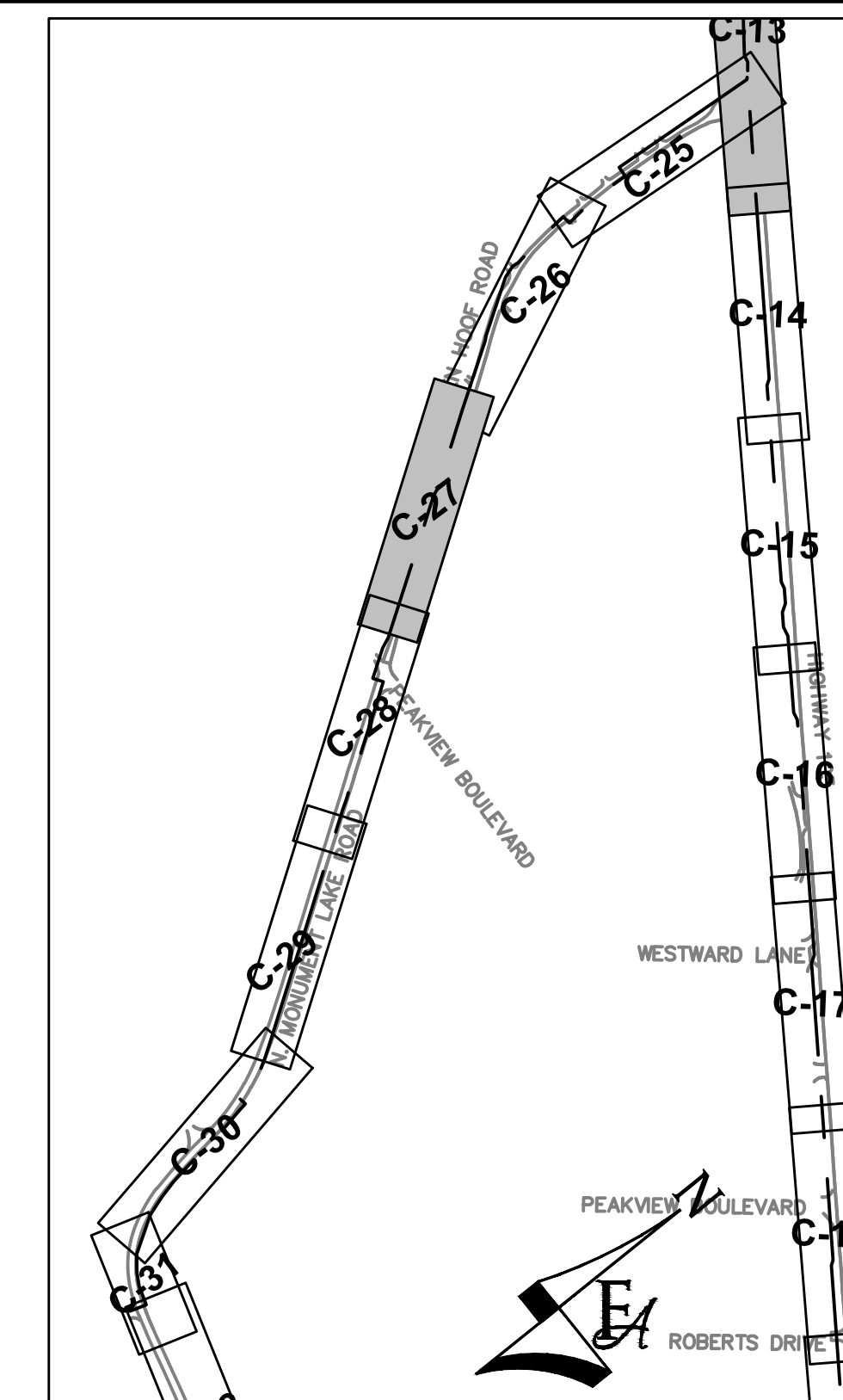
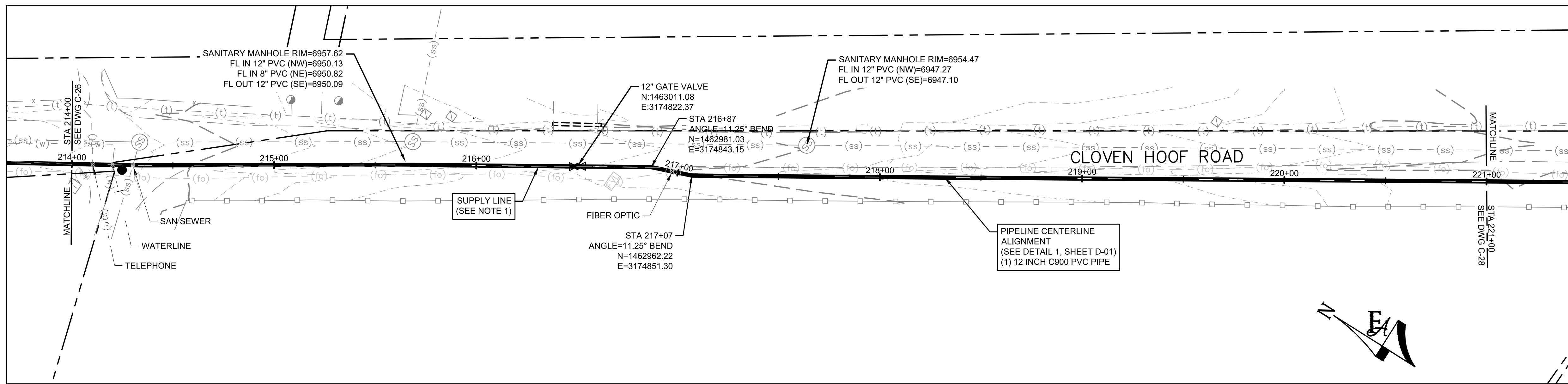


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 PH: 720.232.6644



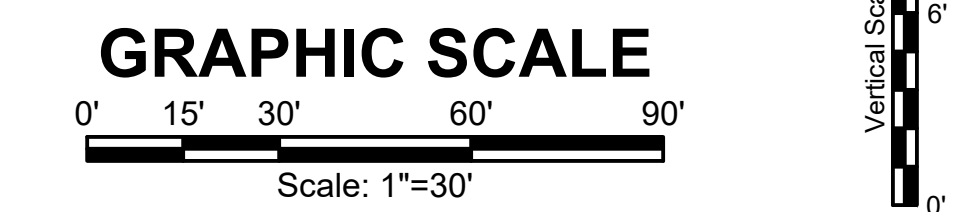
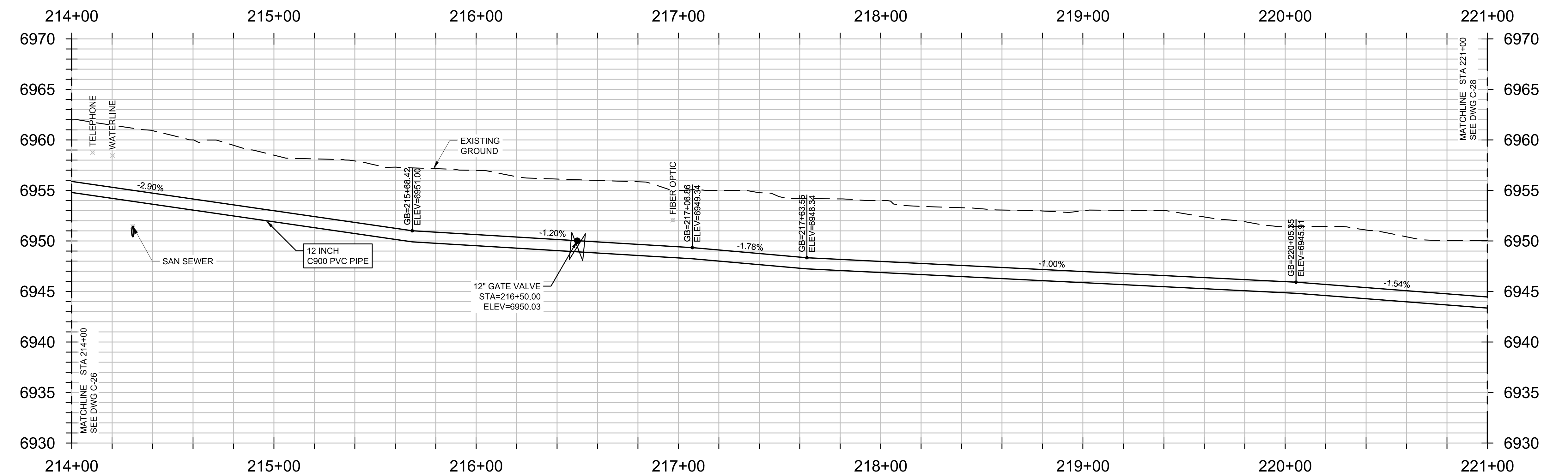
MONUMENT WATERLINE
PLAN AND PROFILE - STA 207+00 TO STA 214+00

PROJECT NO:
04-20-0153
 SHEET NO:
C-26
 DATE:
 MAY, 2022
 PAGE NO:
 31 OF 45



GENERAL CONSTRUCTION NOTES:

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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-27 PLAN AND PROFILE - 27.dwg - 5/5/2022 6:25 PM

NO.	REVISIONS	BY	DATE

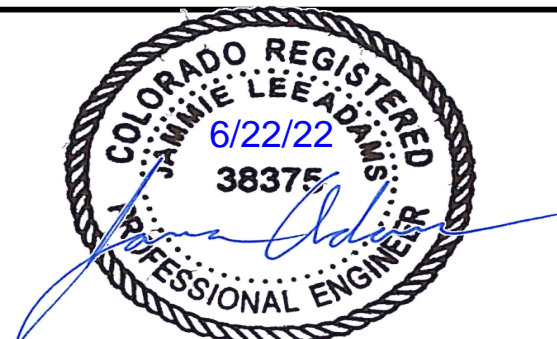
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

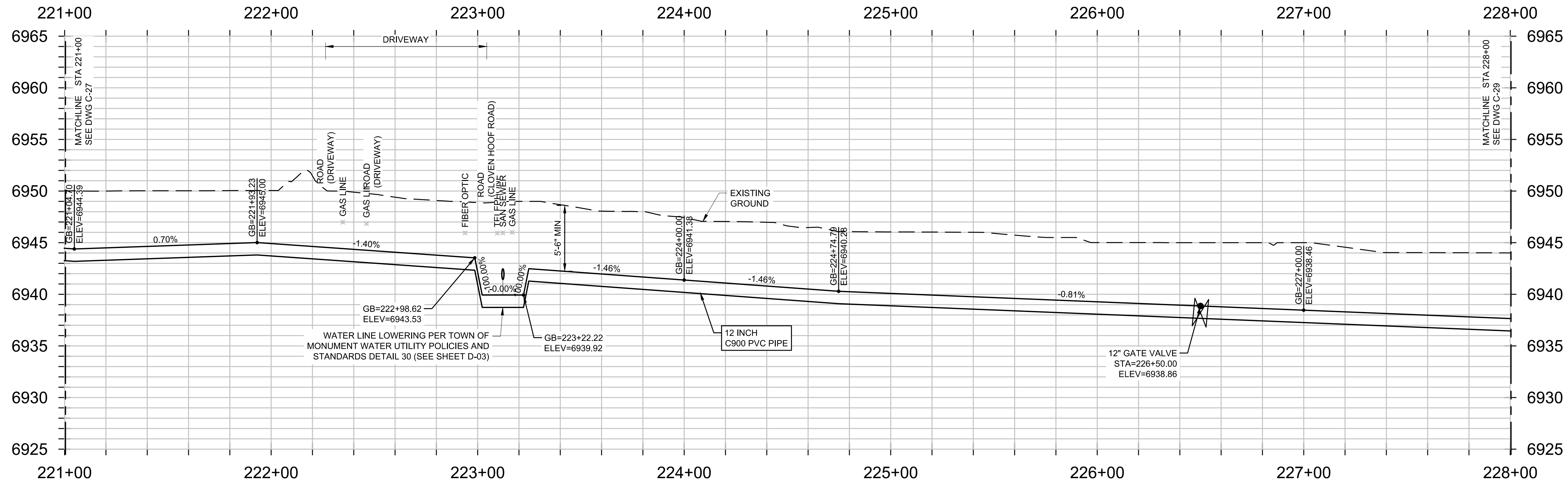
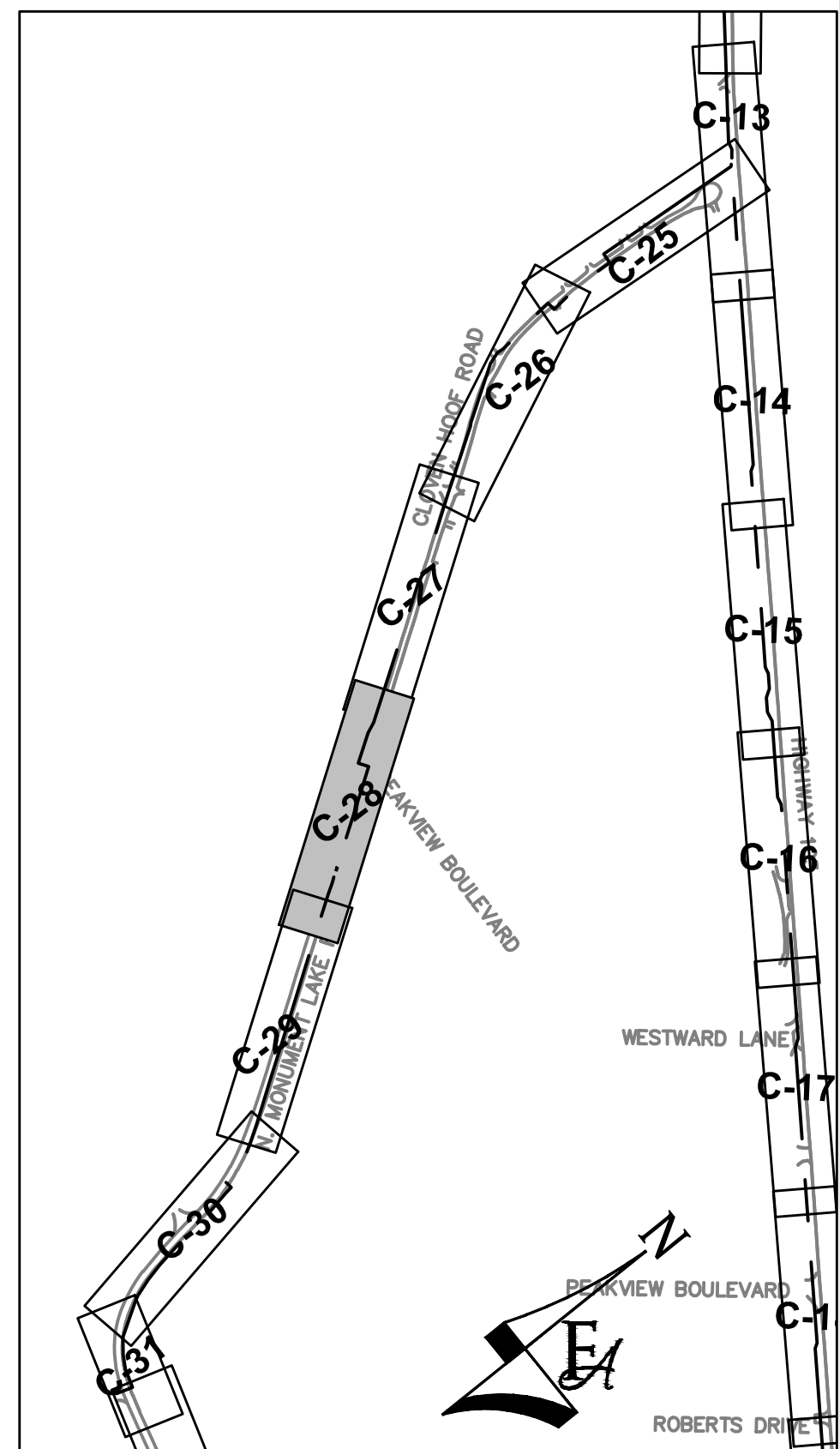
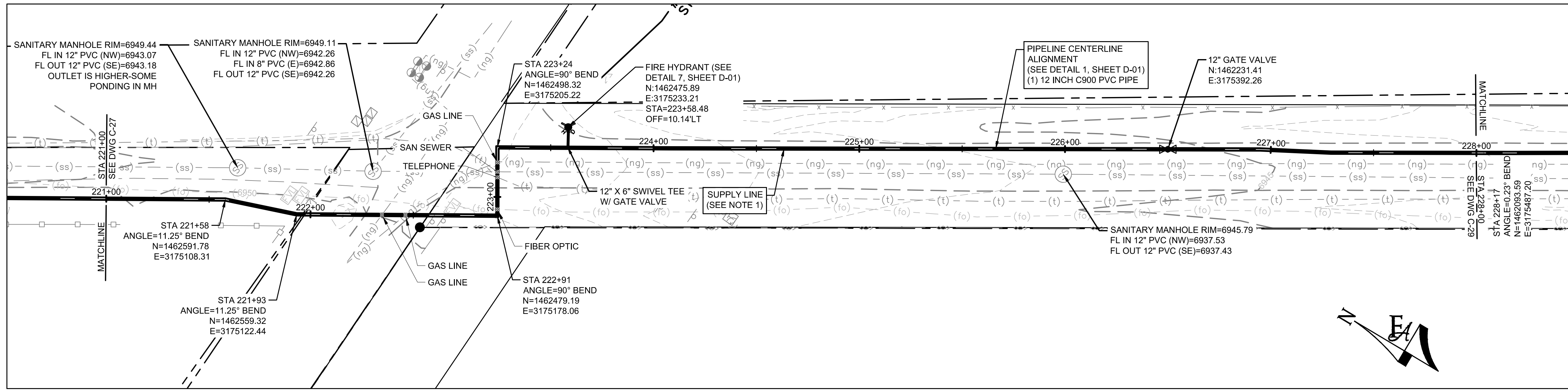


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PH: 720.232.6644

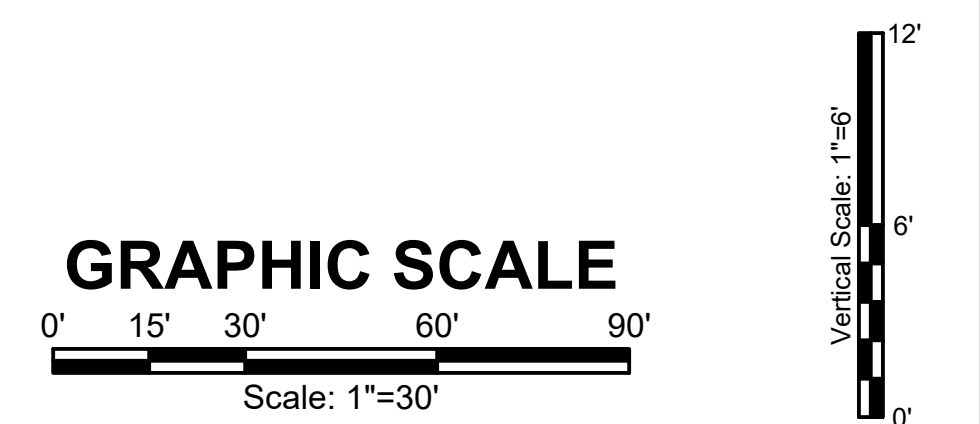


MONUMENT WATERLINE
PLAN AND PROFILE - STA 214+00 TO STA 221+00

PROJECT NO: 04-20-0153	PAGE NO: 32 OF 45
SHEET NO: C-27	DATE: MAY, 2022



- GENERAL CONSTRUCTION NOTES:**
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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-28 PLAN AND PROFILE - 28.dwg - 5/5/2022 6:23 PM

NO.	REVISIONS	BY	DATE

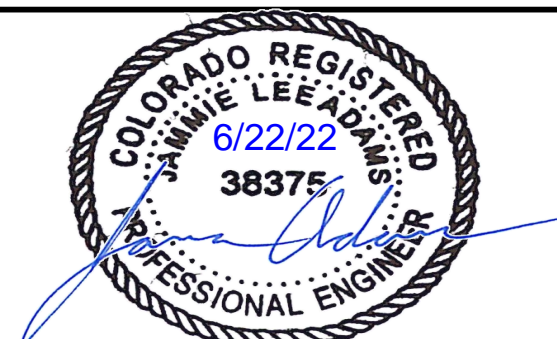
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

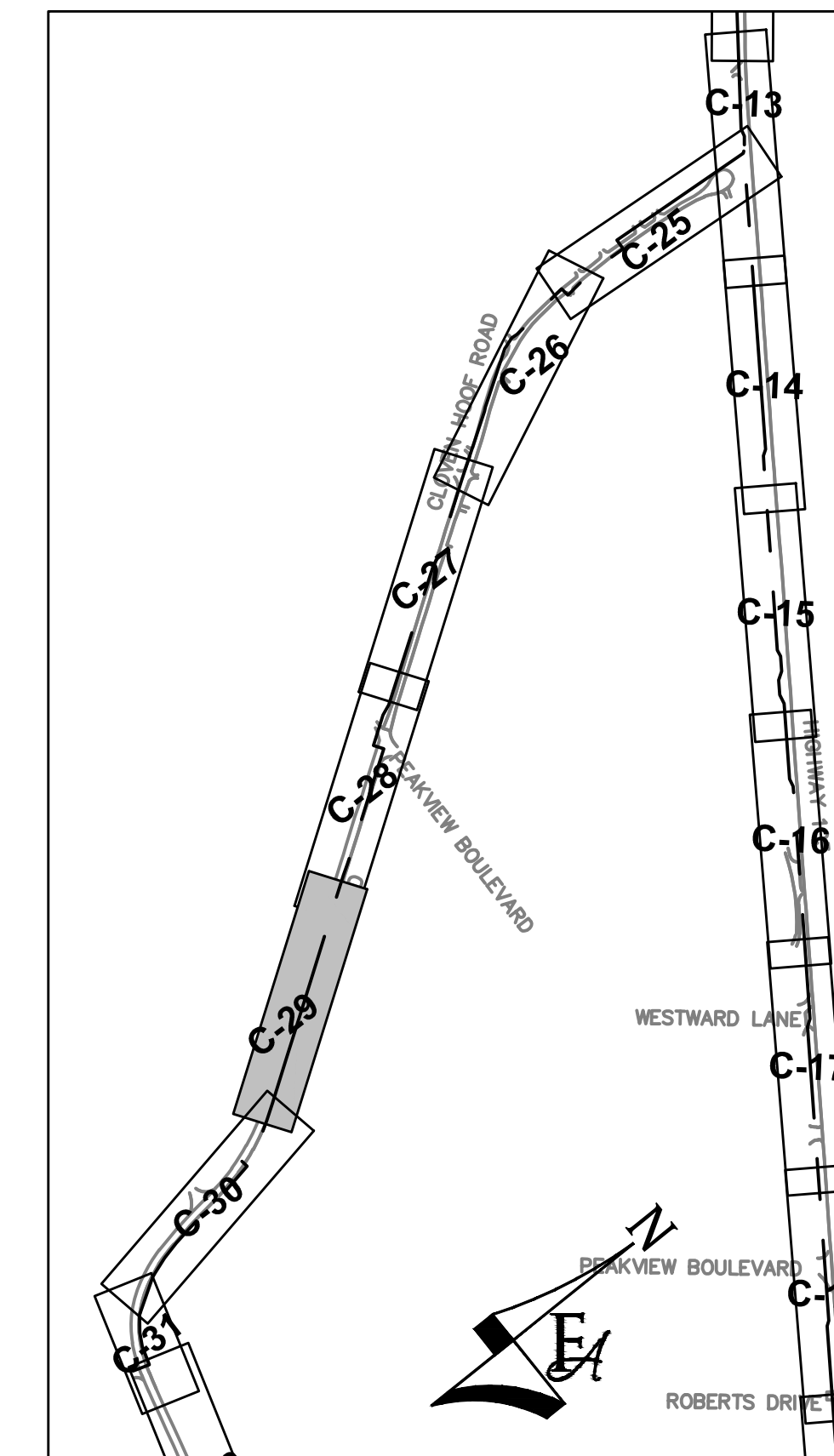
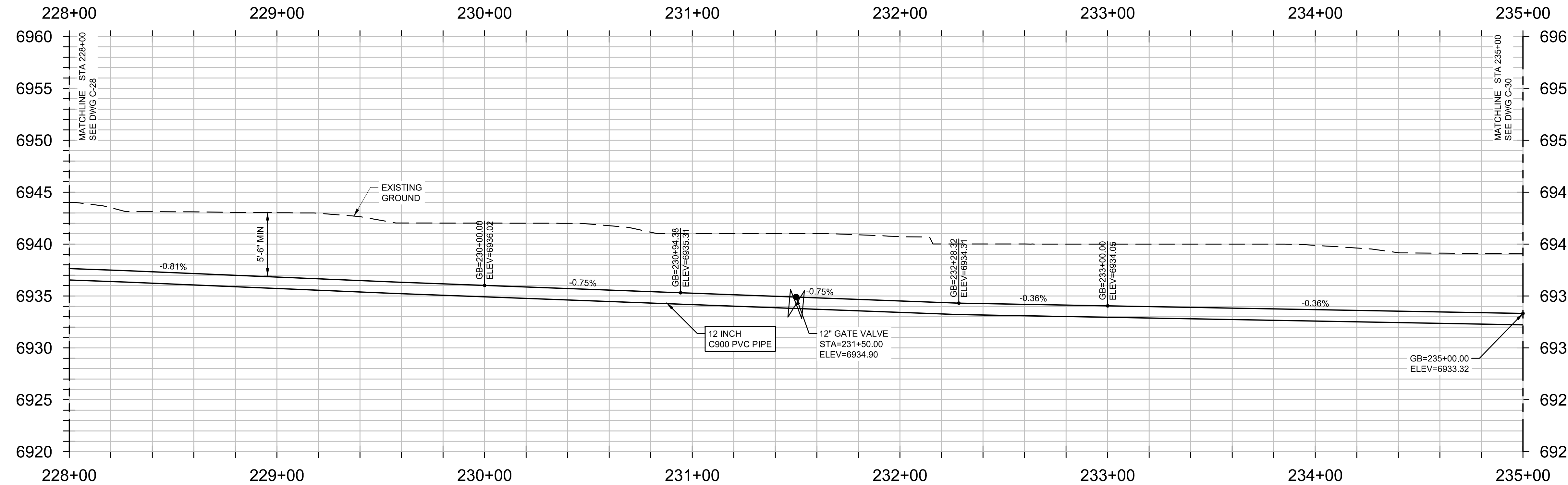
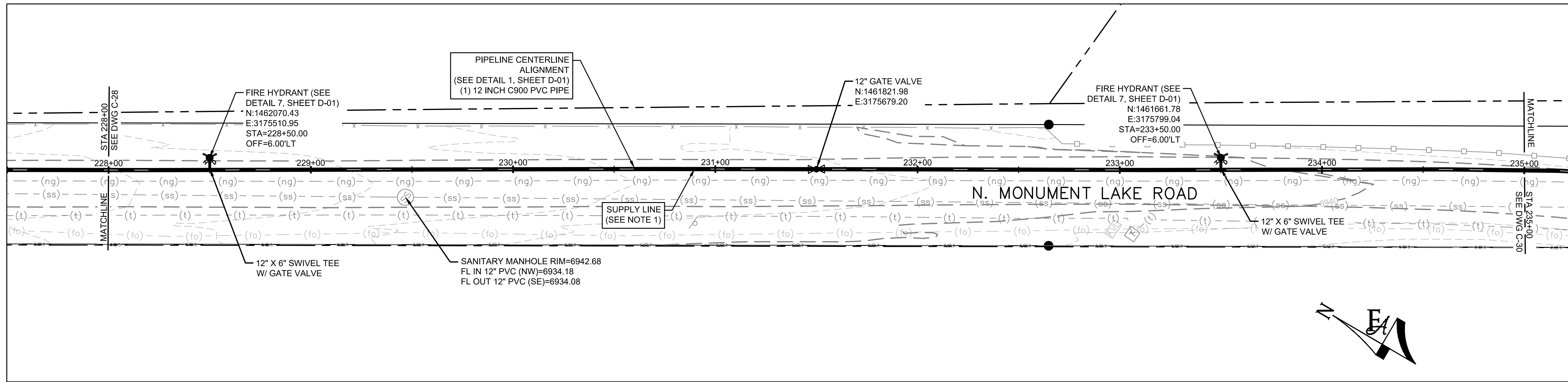


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PH: 720.232.6644



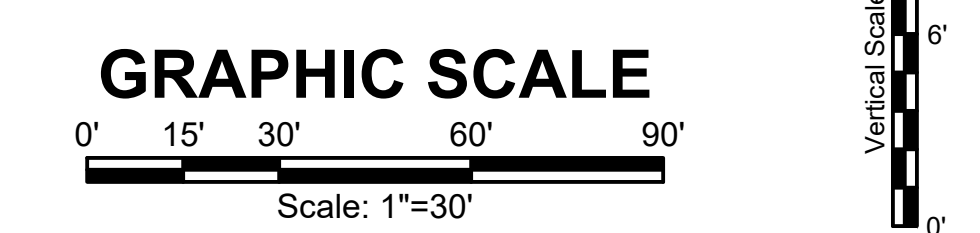
MONUMENT WATERLINE
PLAN AND PROFILE - STA 221+00 TO STA 228+00

PROJECT NO: 04-20-0153
SHEET NO: C-28
DATE: MAY, 2022
PAGE NO: 33 OF 45



GENERAL CONSTRUCTION NOTES:

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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-29 PLAN AND PROFILE - 29.dwg - 5/5/2022 6:16 PM

NO.	REVISIONS	BY	DATE

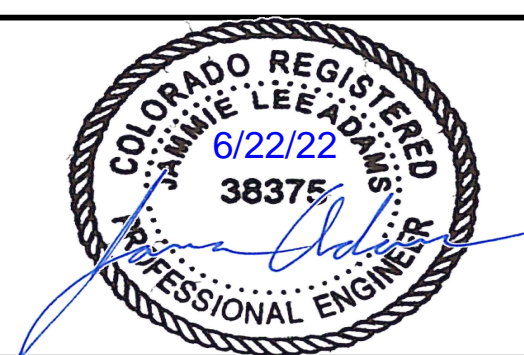
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

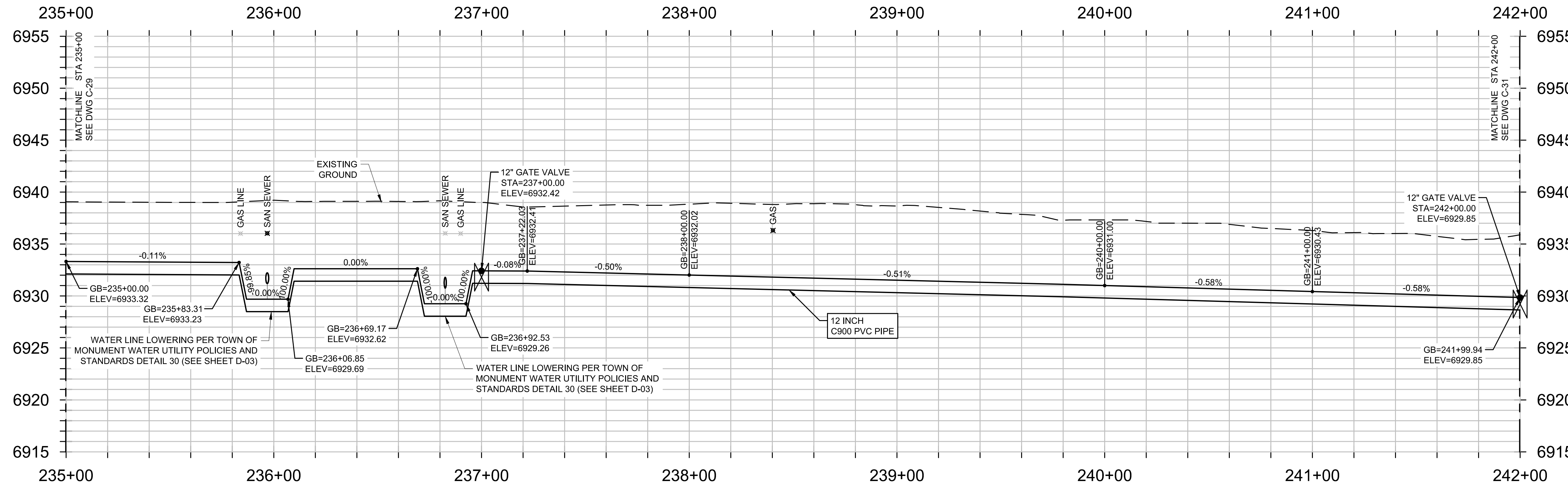
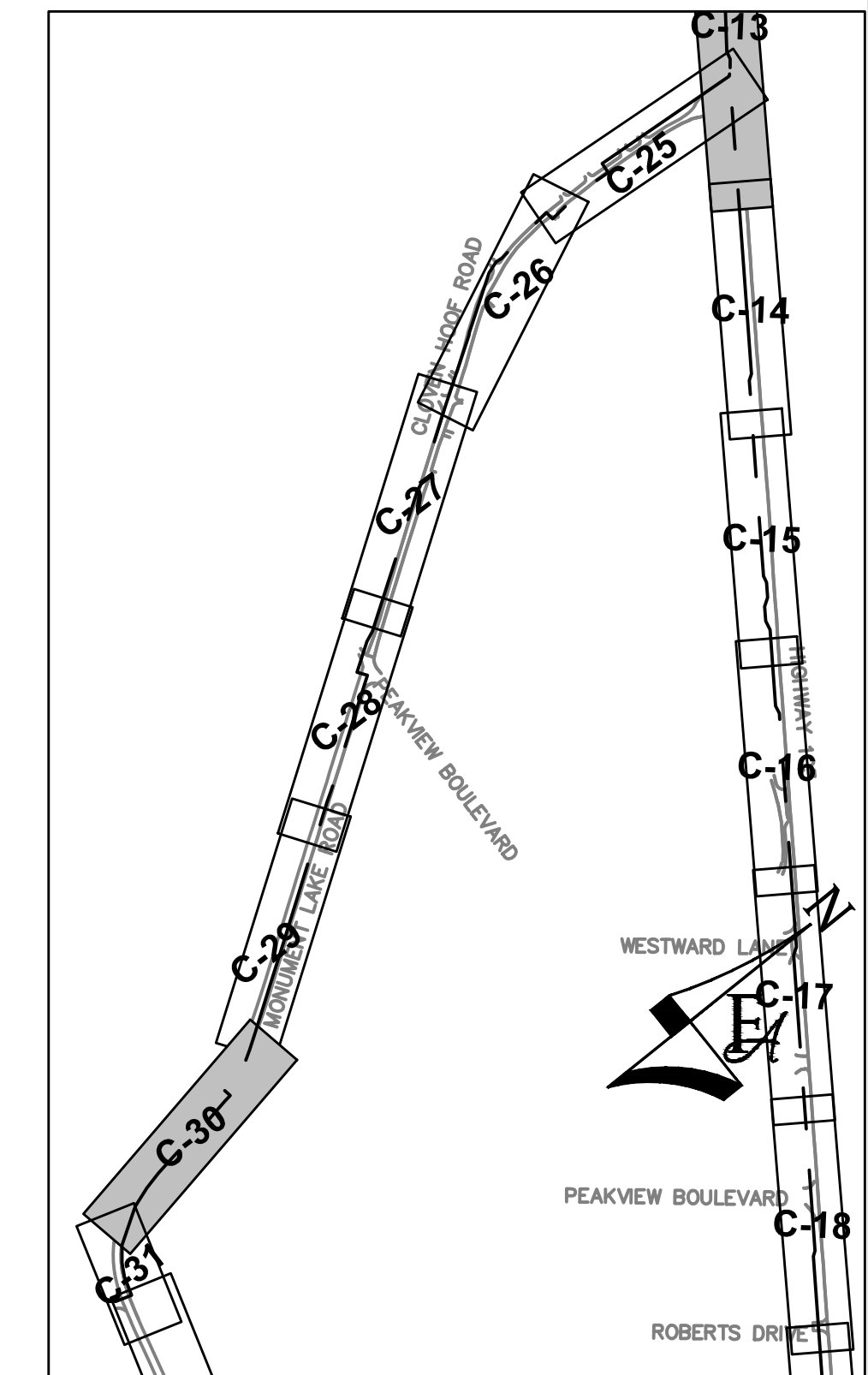
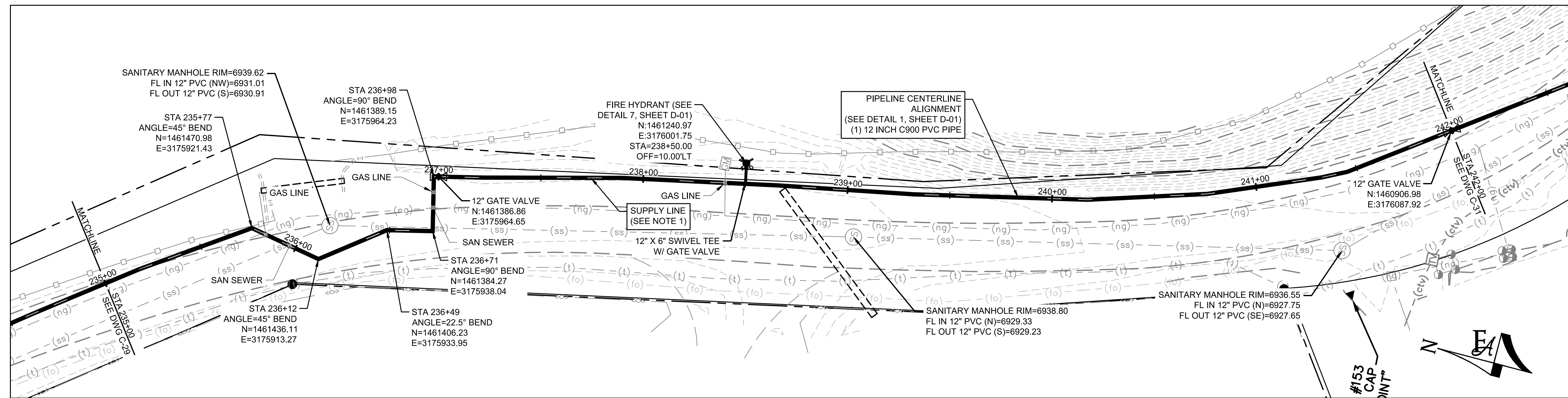


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PH: 720.232.6644

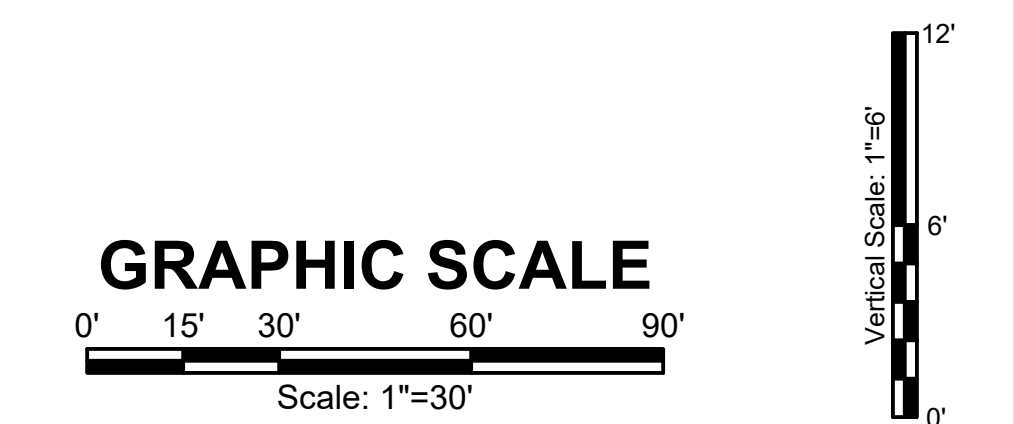


MONUMENT WATERLINE
PLAN AND PROFILE - STA 228+00 TO STA 235+00

PROJECT NO: 04-20-0153	PAGE NO: 34 OF 45
SHEET NO: C-29	DATE: MAY, 2022



- GENERAL CONSTRUCTION NOTES:**
- CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-30 PLAN AND PROFILE - 30.dwg - 5/5/2022 6:00 PM

NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

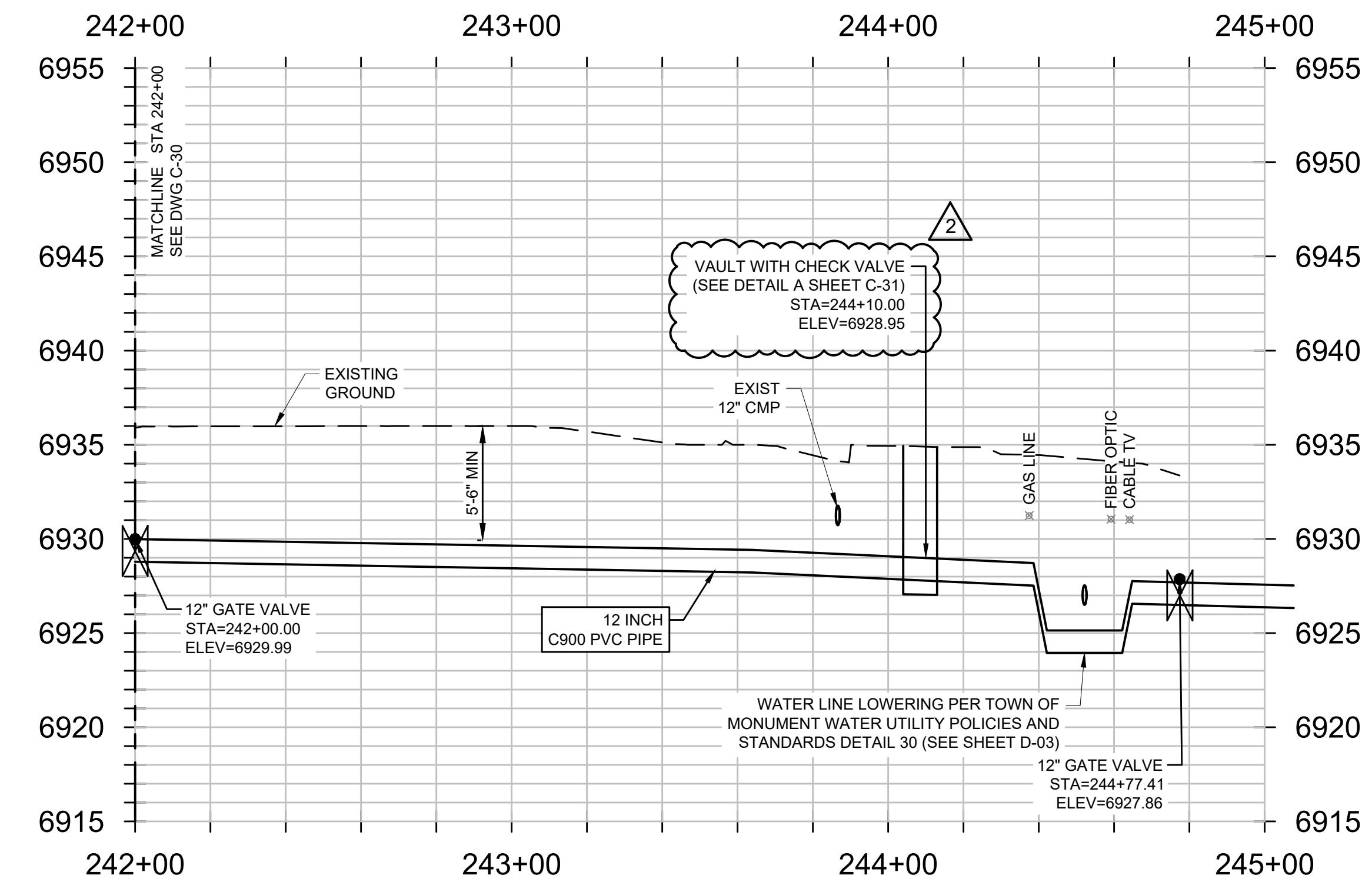
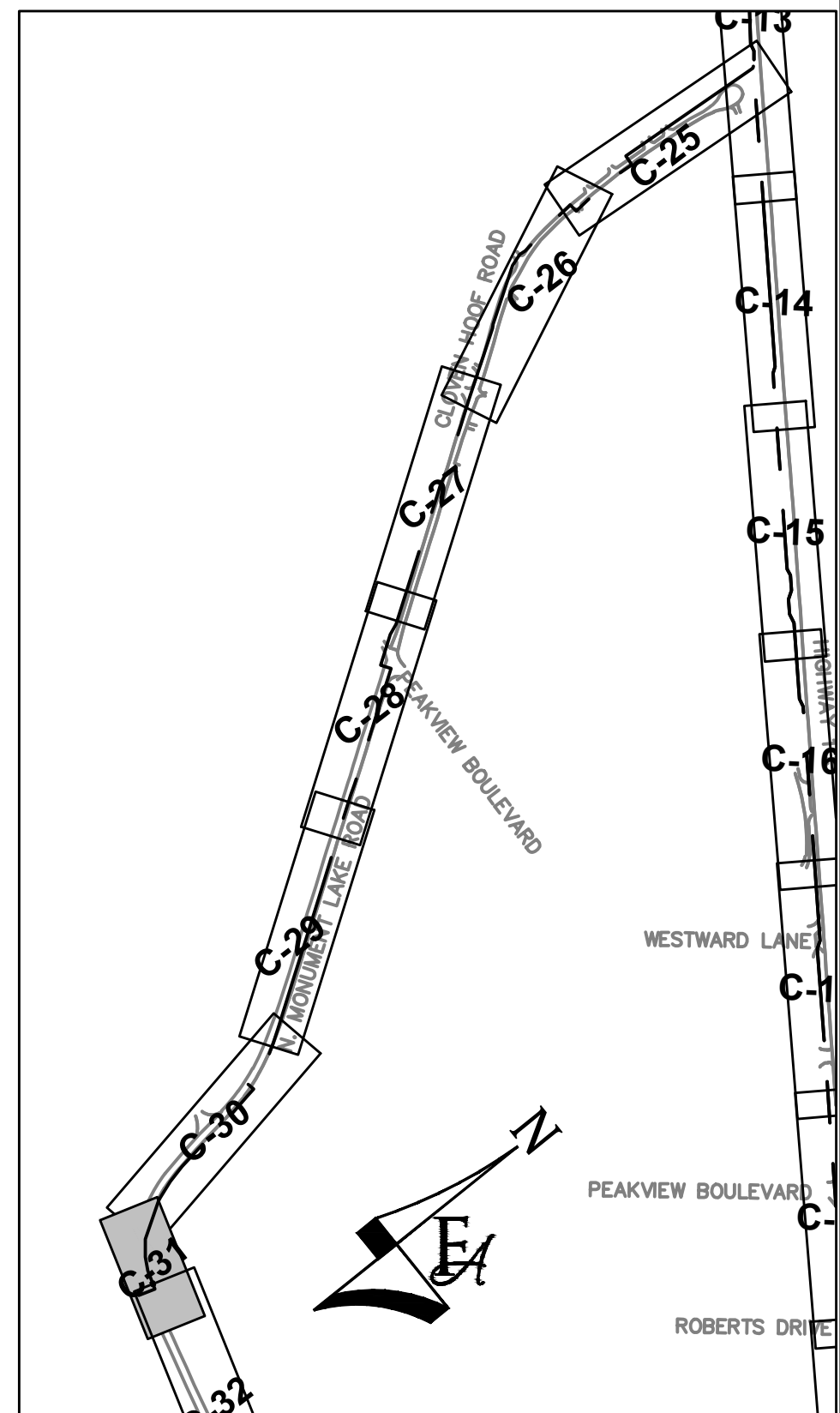
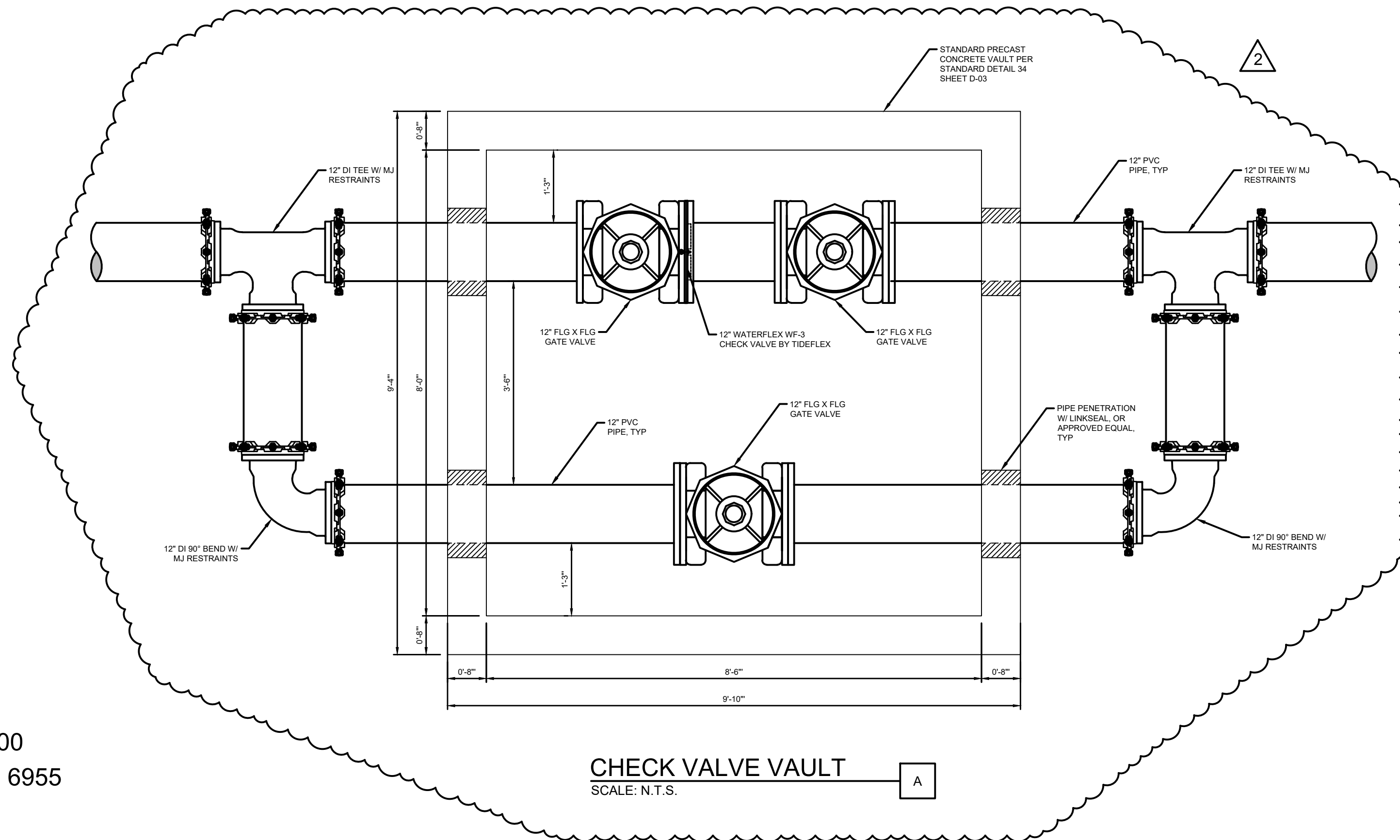
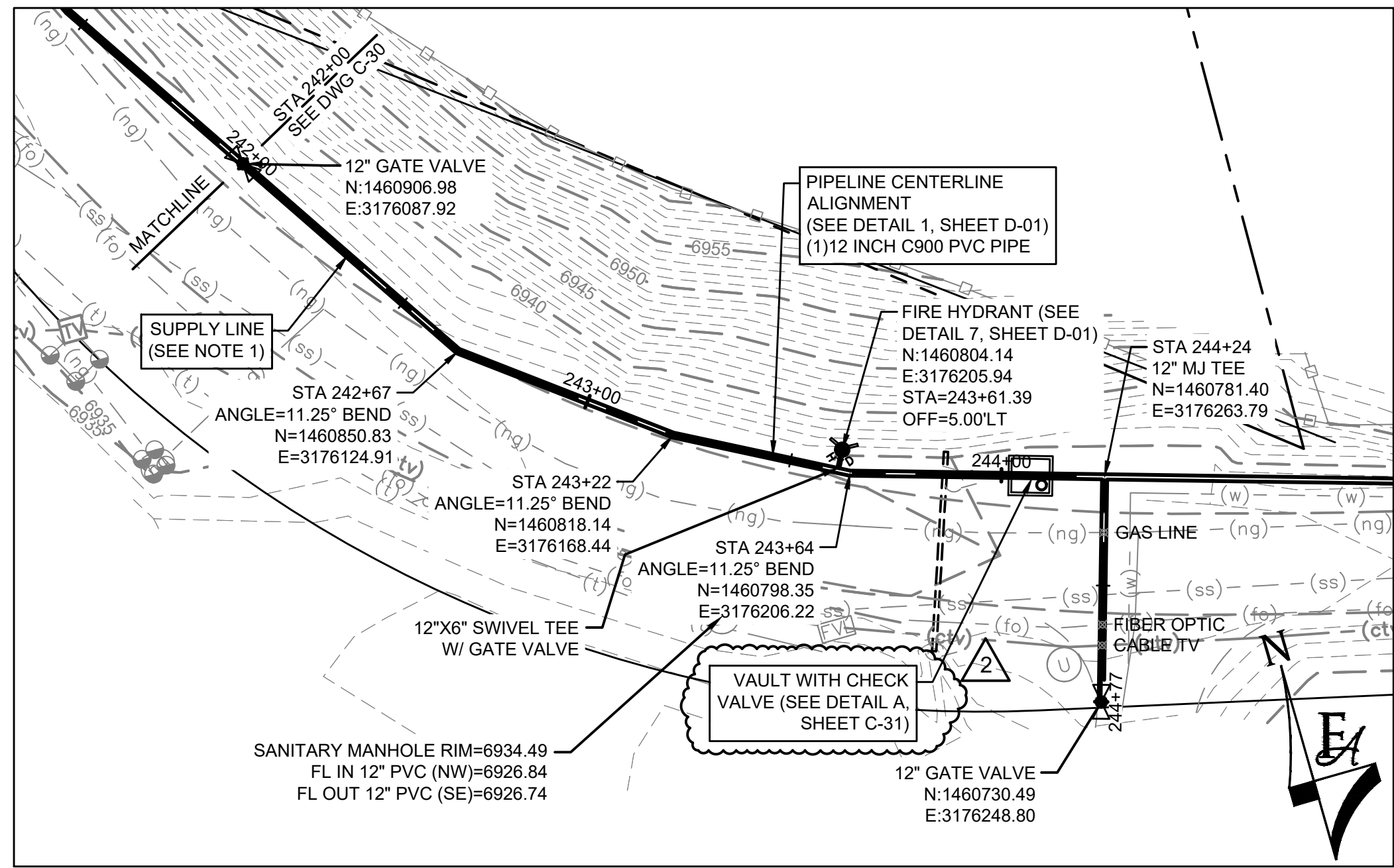


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56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

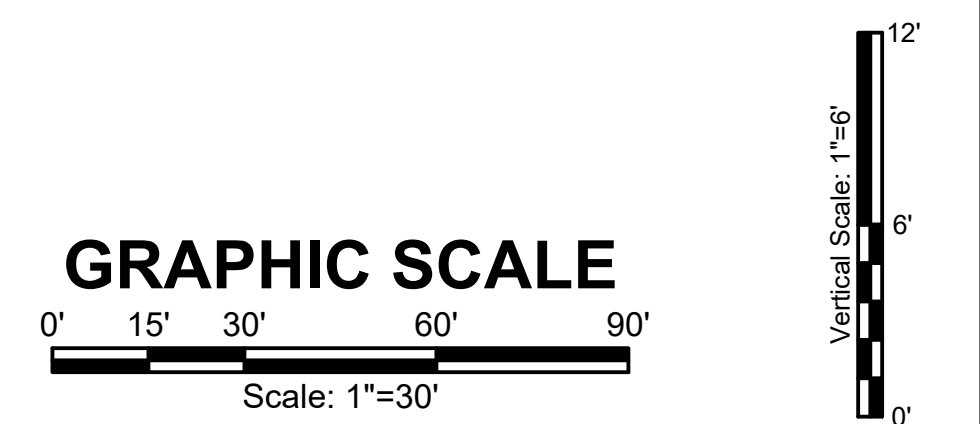


MONUMENT WATERLINE
PLAN AND PROFILE - STA 235+00 TO STA 242+00

PROJECT NO: 04-20-0153	PAGE NO: 35 OF 45
SHEET NO: C-30	DATE: MAY, 2022



- GENERAL CONSTRUCTION NOTES:**
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P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\C-31 PLAN AND PROFILE - 31.dwg - 6/22/2022 2:32 PM

NO.	REVISIONS	BY	DATE
2	CHECK VALVE VAULT ADDED	CPB	06/22

DRAWN: S. CALE
 DESIGNED: DESIGNED BY
 APPROVED: APPROVED BY
 QA: QA BY

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID

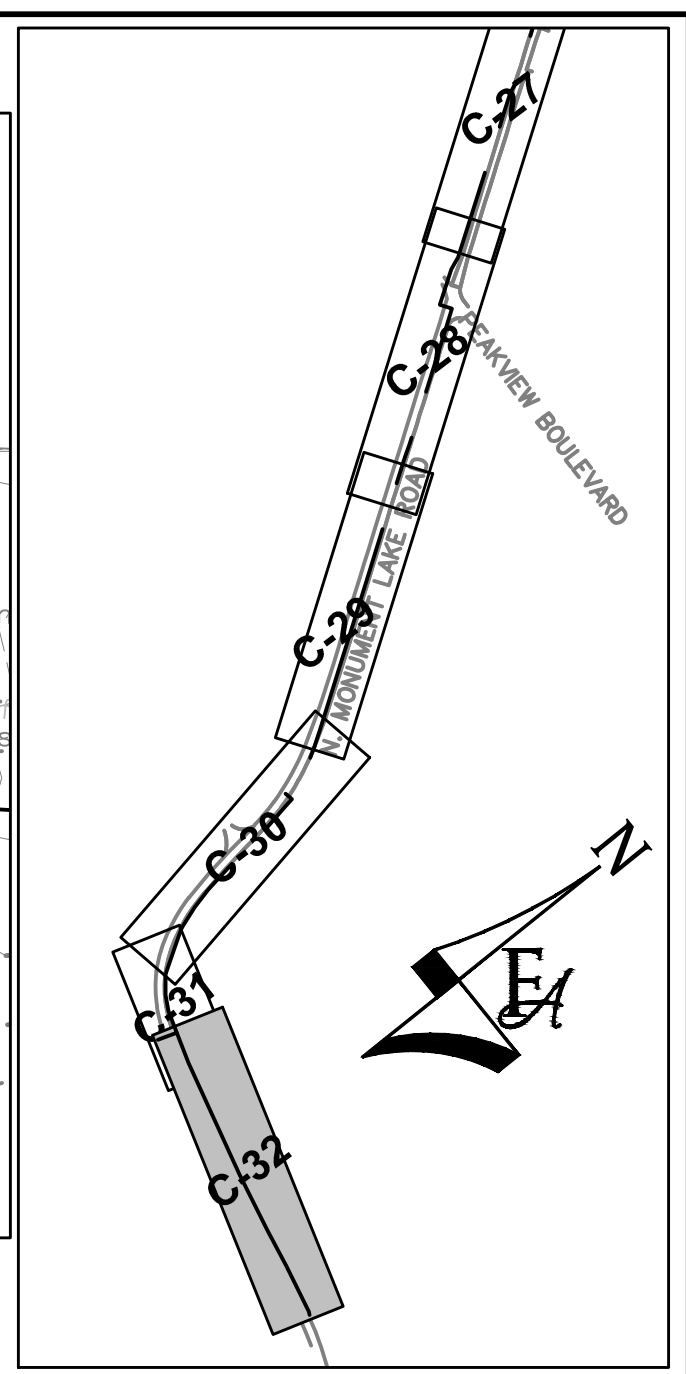
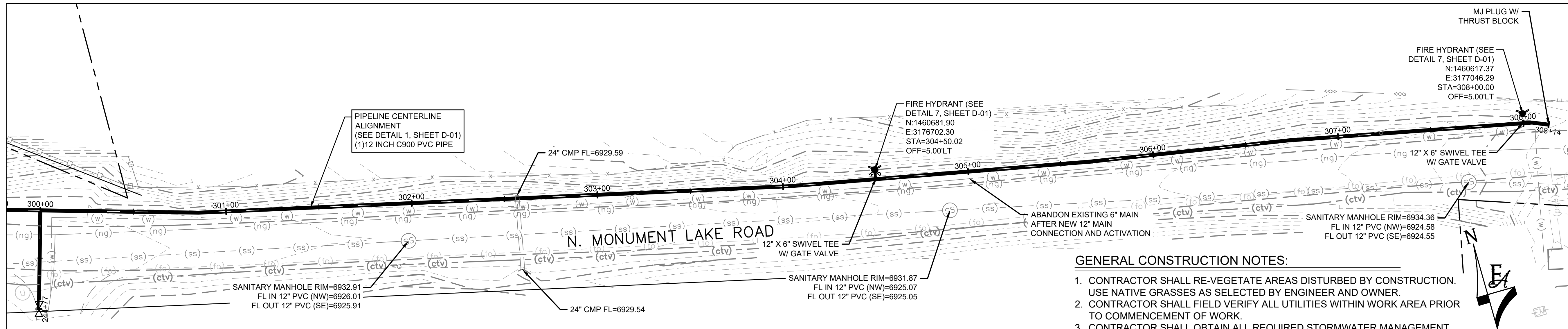


FORSGREN Associates Inc.
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720.232.6644



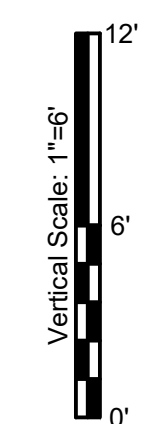
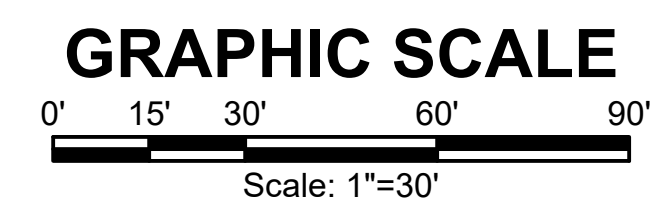
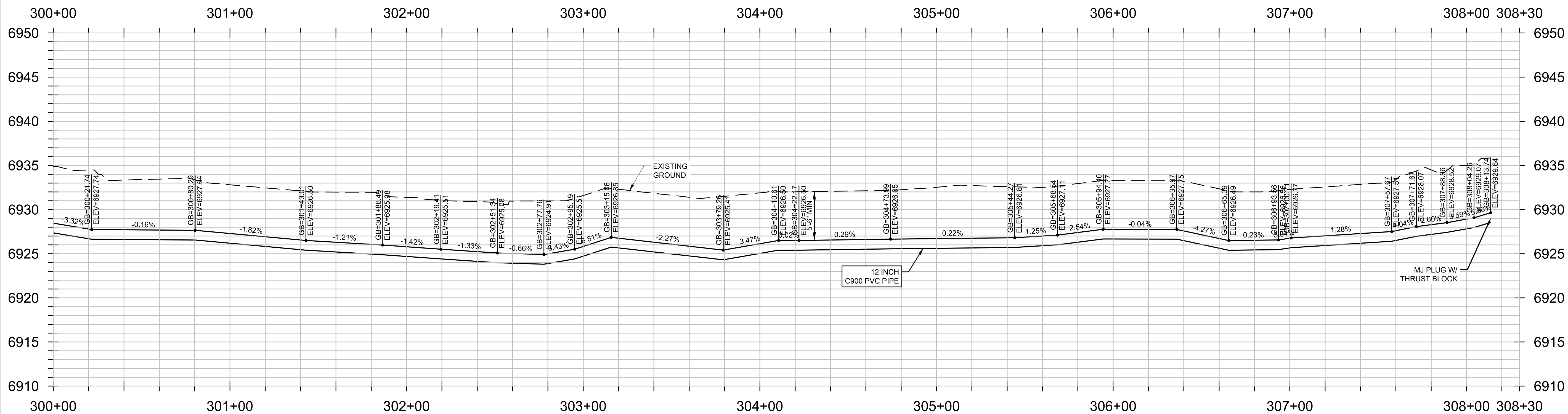
MONUMENT WATERLINE
PLAN AND PROFILE - STA 242+00 TO STA 255+00

PROJECT NO: **04-20-0153**
 SHEET NO: **C-31**
 DATE: MAY, 2022
 PAGE NO: 36 OF 45



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6. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING LANDSCAPING AND IRRIGATION SYSTEMS. CONTRACTOR SHALL RESTORE/REPAIR LANDSCAPING WHERE NECESSARY.
7. CONTRACTOR SHALL POLYWRAP ALL FITTINGS.
8. CONTRACTOR RESPONSIBLE FOR REPAIR OF ASPHALT AND/OR CONCRETE DAMAGED DURING CONSTRUCTION TO ACCOMMODATE WATERLINE INSTALLATION.
9. ALL VERTICAL DEFLECTIONS SHALL BE DONE VIA JOINT DEFLECTION WITHIN RECOMMENDED MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE NOTED.
10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



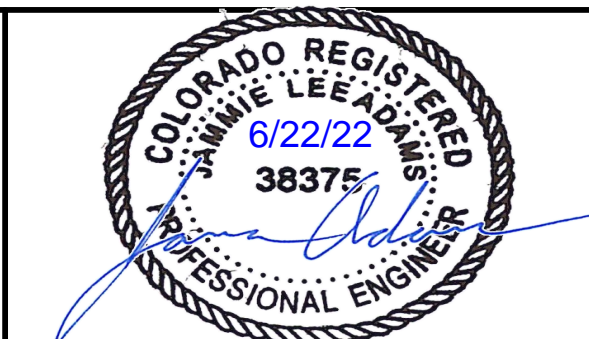
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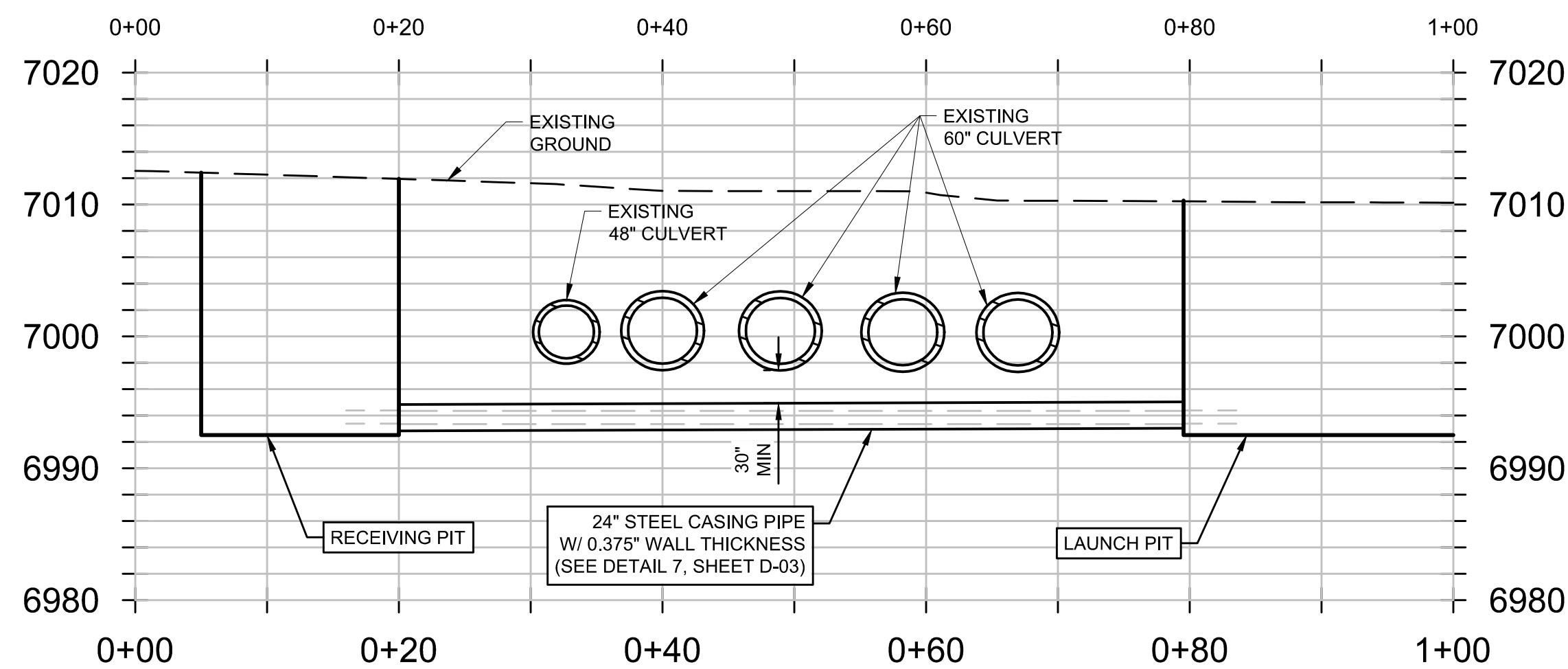
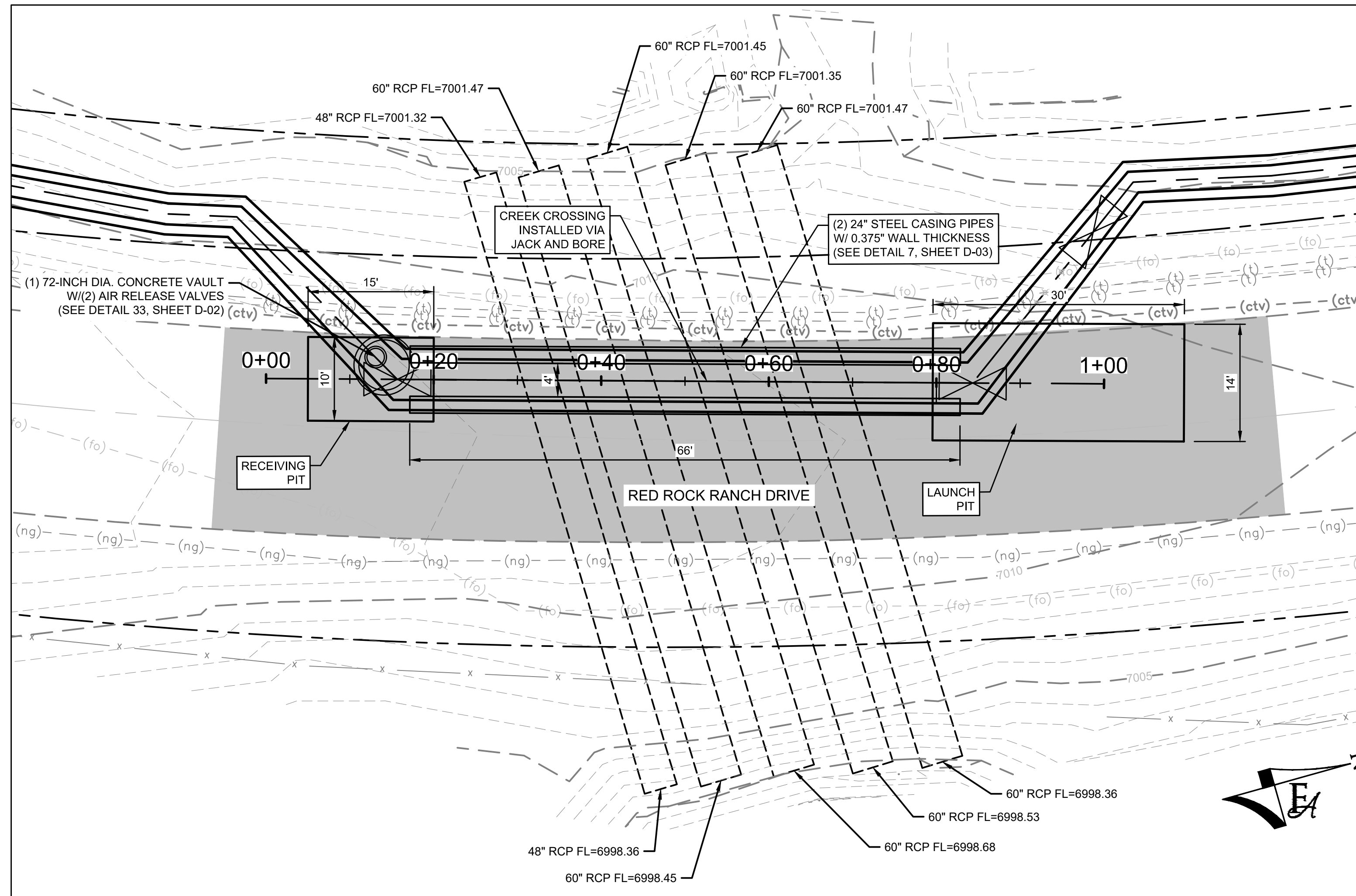


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 PH: 720.232.6644



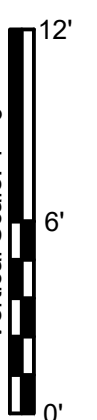
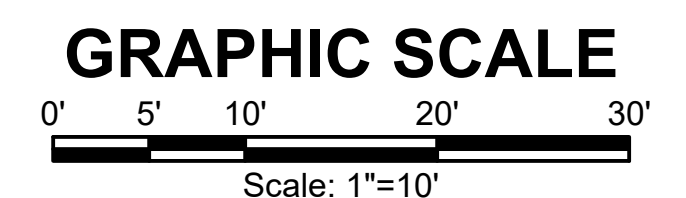
MONUMENT WATERLINE
PLAN AND PROFILE - STA 300+00 TO STA 308+15

PROJECT NO: 04-20-0153	PAGE NO: 37 OF 45
SHEET NO: C-32	DATE: MAY, 2022



GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED STORMWATER MANAGEMENT AND EROSION CONTROL PERMITS AND APPROVALS.
4. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES, AND UTILITY VAULTS TO FINISHED GRADE AS NECESSARY.
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6. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING LANDSCAPING AND IRRIGATIONS SYSTEMS. CONTRACTOR SHALL RESTORE/REPAIR LANDSCAPING WHERE NECESSARY.
7. CONTRACTOR SHALL POLYWRAP ALL FITTINGS.
8. CONSTRUCTION EASEMENTS WILL BE REQUIRED IF ENCROACHING INTO PRIVATE PROPERTY DURING THE CONSTRUCTION PROCESS.
9. ECM CRITERIA K.1.2.A STATES THAT CUTS WILL NOT BE ALLOWED IN ROADS THAT ARE LESS THAN THREE YEARS OLD. THE PROPOSAL OF AN ALTERNATE METHOD OF INSTALLATION WILL BE REQUIRED WHEN APPLYING FOR A WORK IN THE ROW PERMIT.
10. CONTRACTOR RESPONSIBLE FOR REPAIR OF ASPHALT AND/OR CONCRETE DAMAGED DURING CONSTRUCTION TO ACCOMMODATE WATERLINE INSTALLATION.
11. ALL VERTICAL DEFLECTIONS SHALL BE DONE VIA JOINT DEFLECTION WITHIN RECOMMENDED MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE NOTED.
12. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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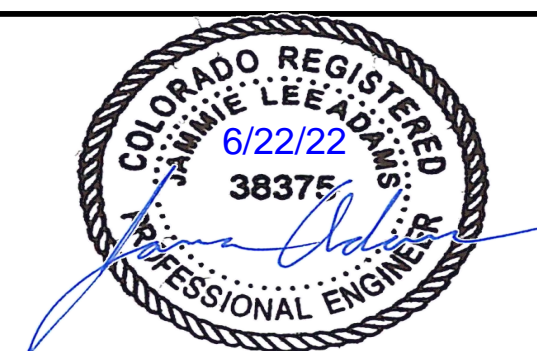
DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

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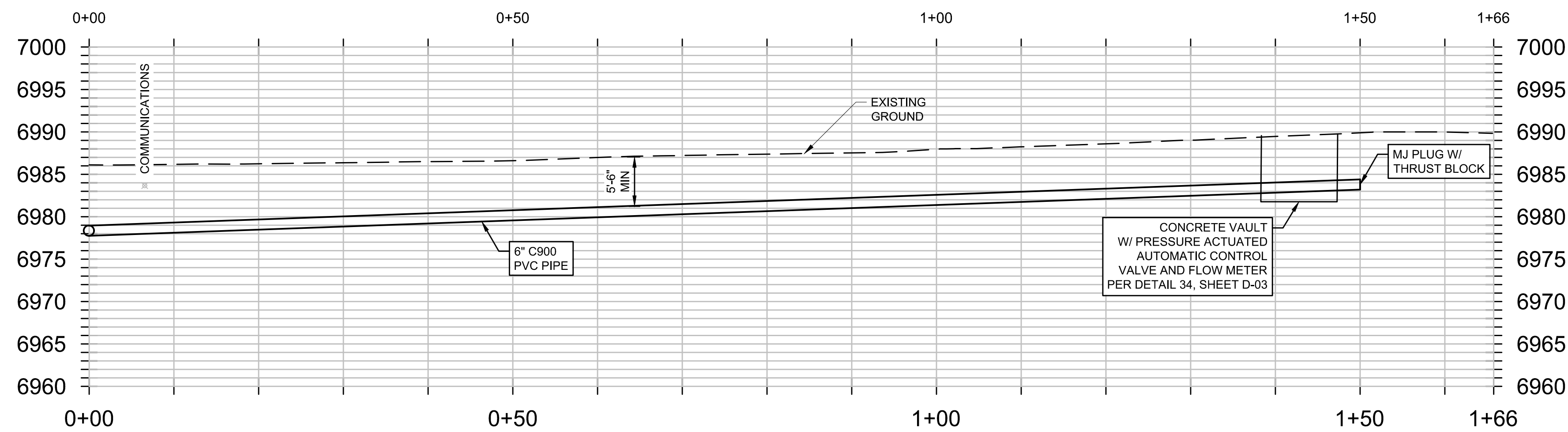
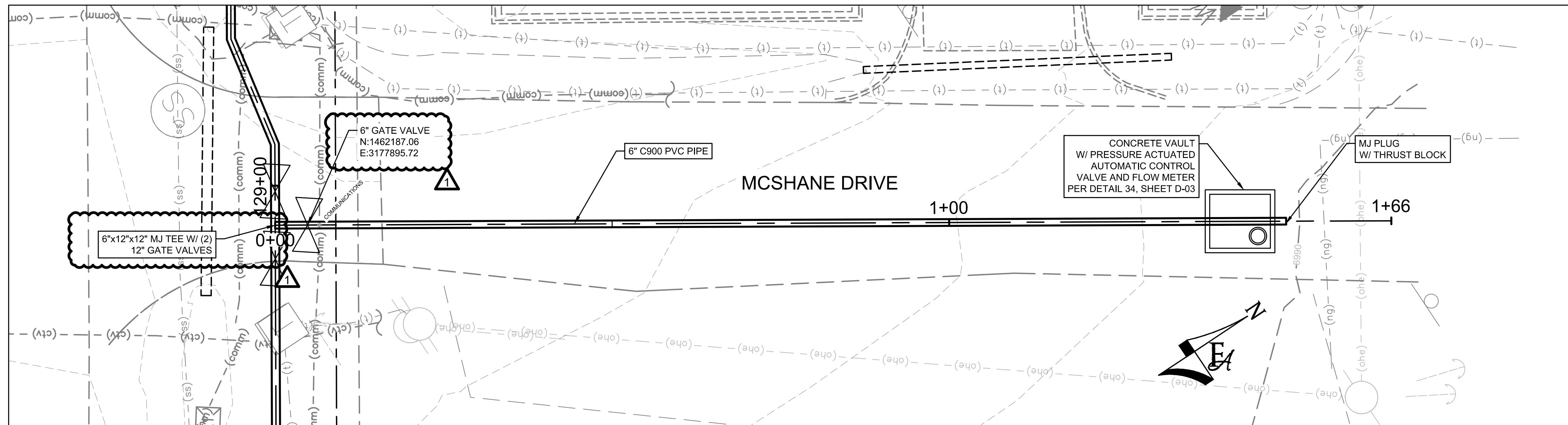


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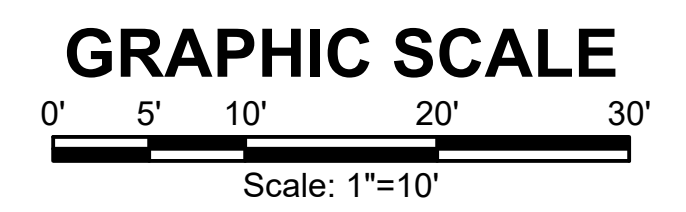


MONUMENT WATERLINE
**RED ROCK RANCH DRIVE
CULVERT CROSSING**

PROJECT NO: 04-20-0153
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DATE: MAY, 2022
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- GENERAL CONSTRUCTION NOTES:**
1. CONTRACTOR SHALL RE-VEGETATE AREAS DISTURBED BY CONSTRUCTION. USE NATIVE GRASSES AS SELECTED BY ENGINEER AND OWNER.
 2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK.
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 10. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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NO.	ADDENDUM 2	BY	DATE
1		JA	06/22

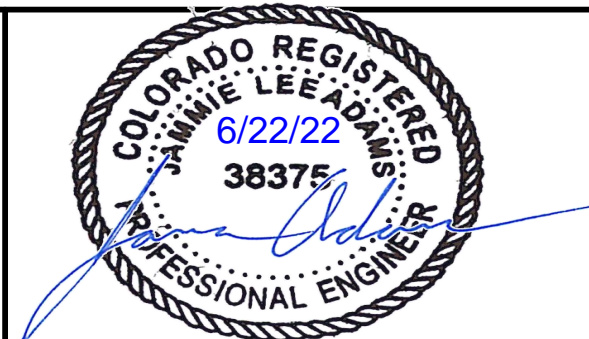
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ATTENTION
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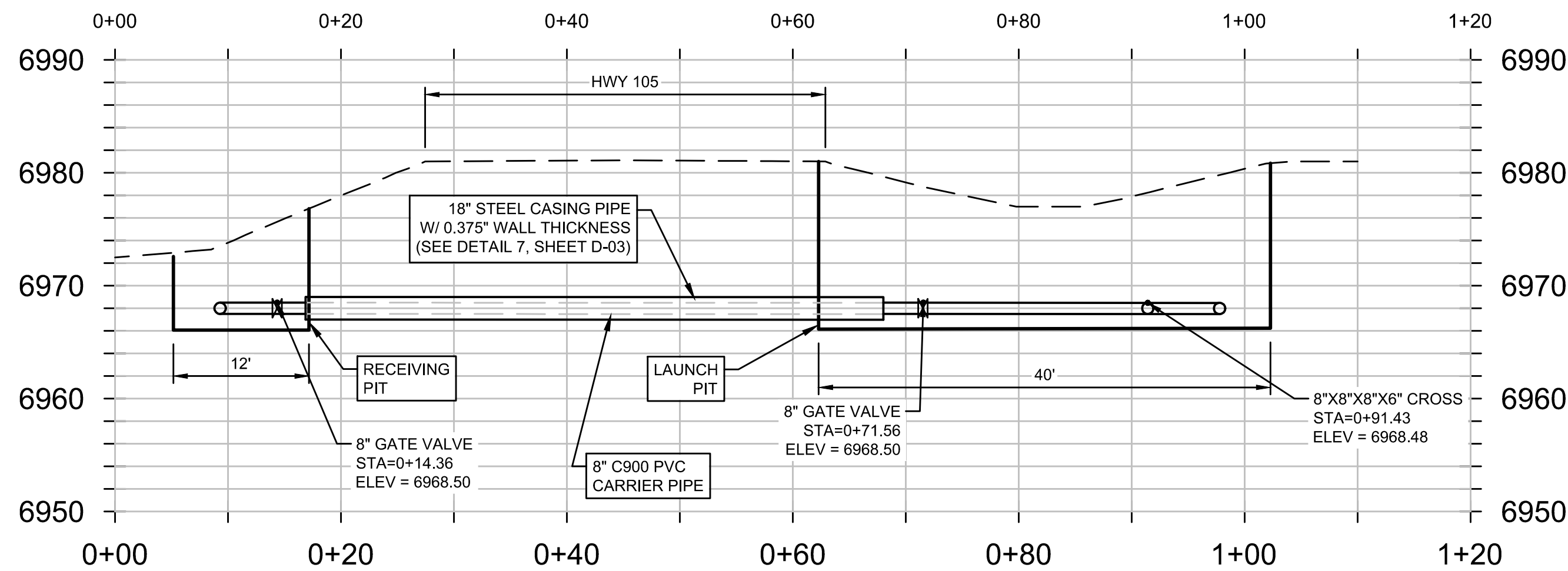
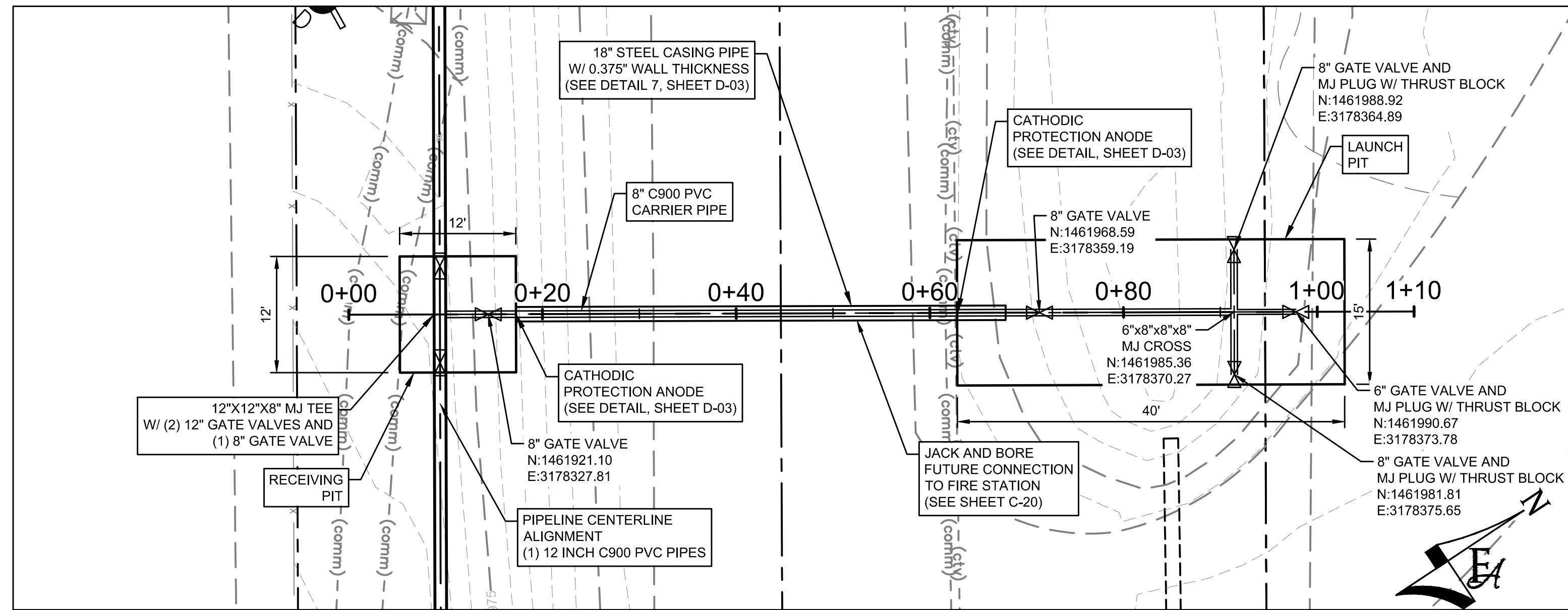


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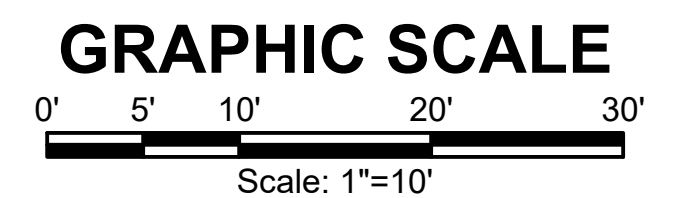
MONUMENT WATERLINE
PIONEER LOOKOUT WATER DISTRICT CONNECTION

PROJECT NO:
04-20-0153
 SHEET NO:
C-34
 DATE: MAY, 2022
 PAGE NO: 39 OF 45



GENERAL CONSTRUCTION NOTES:

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8. PVC PIPING SHALL BE C900 DR-14 UNLESS OTHERWISE NOTED.



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ATTENTION
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MONUMENT WATERLINE

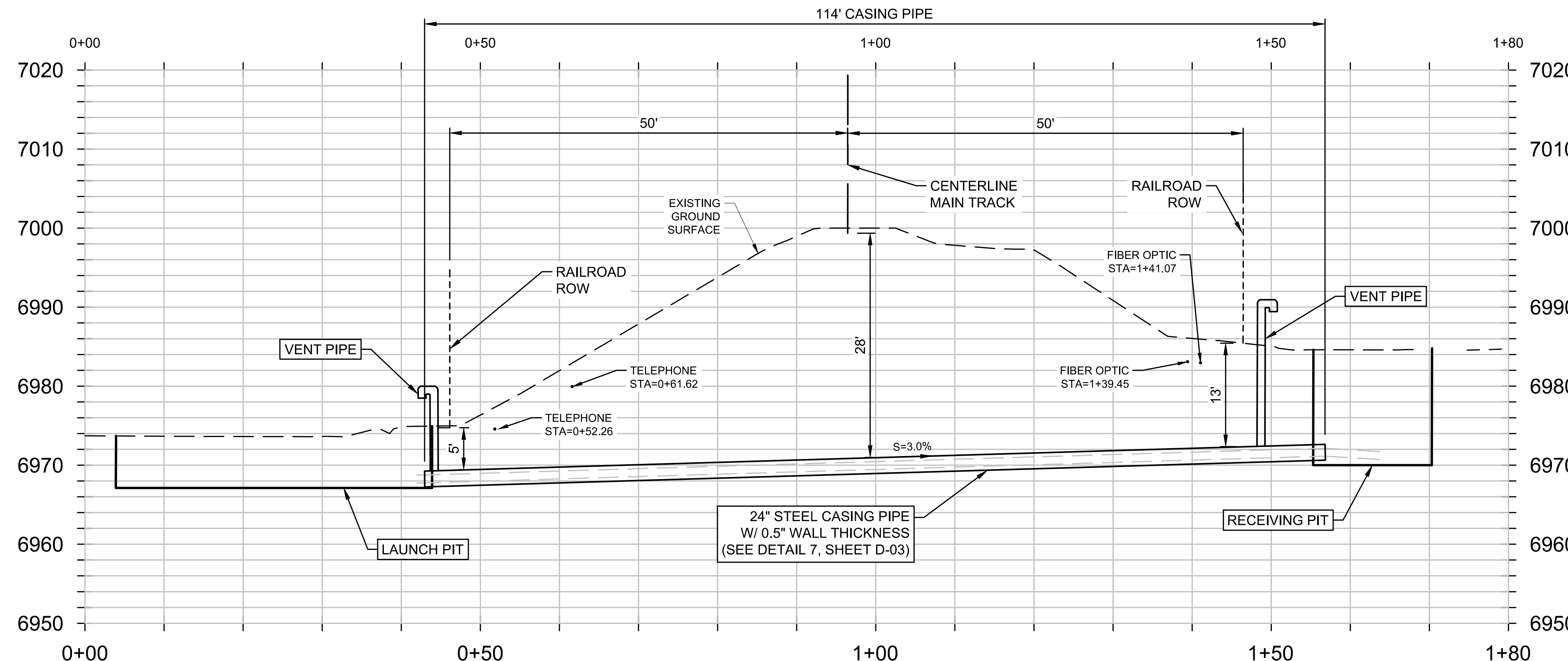
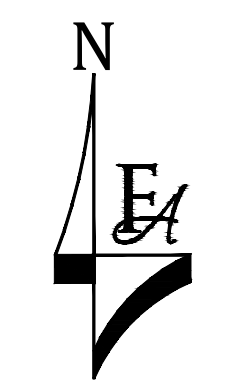
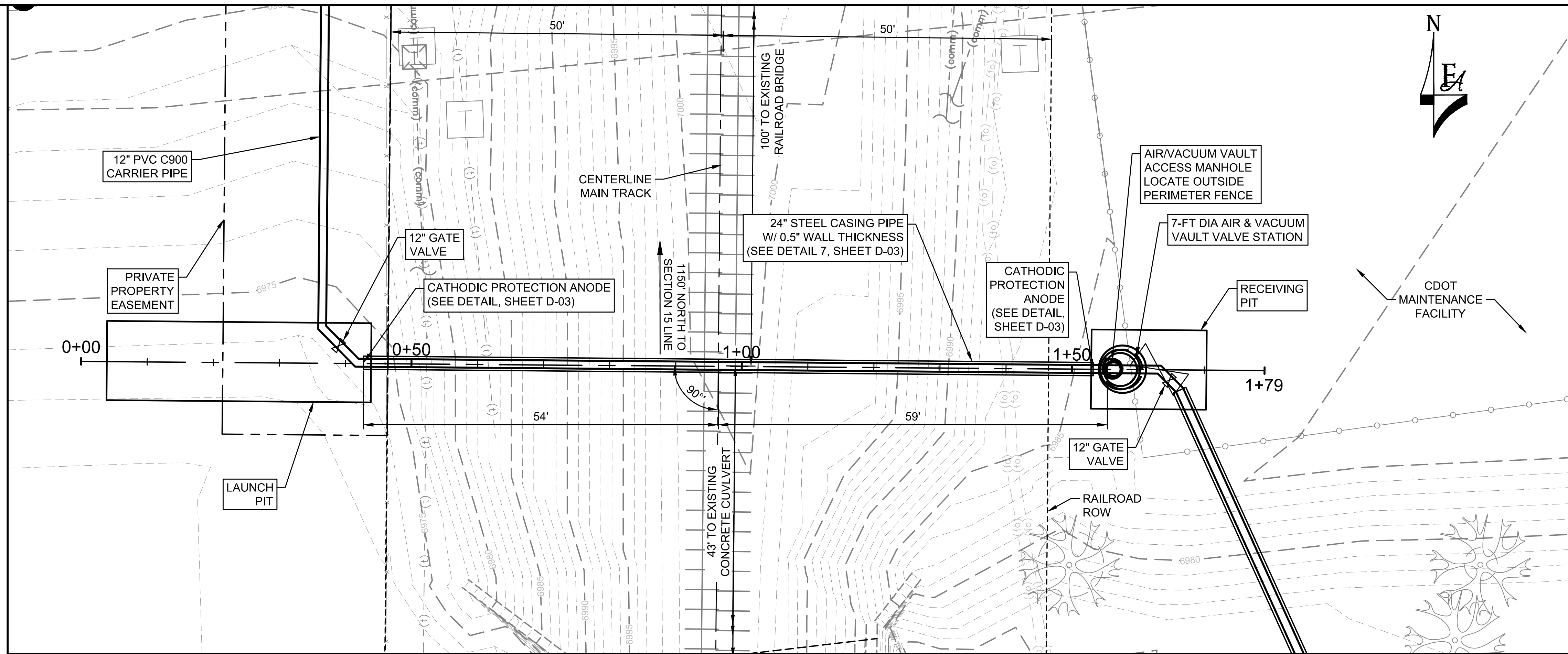
MONUMENT FIRE STATION CONNECTION CROSSING

PROJECT NO:
04-20-0153

SHEET NO:
C-35

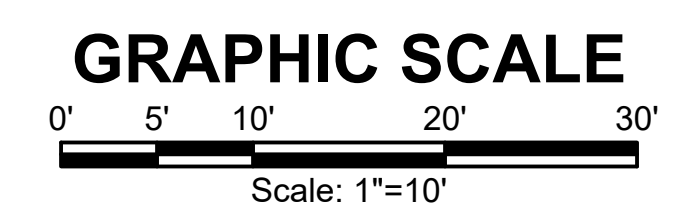
DATE:
 MAY, 2022

PAGE NO:
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PLAN DATA		
	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	POTABLE WATER	CARRIER PIPE
OUTSIDE DIAMETER	13.2-INCHES	24-INCHES
PIPE MATERIAL, MINIMUM YIELD STRENGTH	PVC, CL 200	STEEL, 35,000 PSI
SPECIFICATION AND GRADE	CL 200 DR14 C900	ASTM A53 GRADE B STEEL
WALL THICKNESS	0.733 INCHES	0.50 INCHES
ACTUAL WORKING PRESSURE	90 PSI	N/A
TYPE OF JOINT, BUTT WELDED, FUSION WELDED, INTERLOCKING, COUPLING OR BAND, BOLTED, STAB JOINT, GLUED OR CHEMICALLY BONDED	STAB JOINT	FULL PENETRATION WELD
COATING	NONE	NONE
METHOD OF INSTALLATION	CASING PIPE	BORED & JACKED
SEALS: BOTH ENDS: X ONE END: TYPE: PSI INC. MODEL C		
BURY: BASE OF RAIL TO TOP OF CASING	25 FEET INCHES (METERS)	
BURY: (NOT BENEATH TRACKS)	5 FEET INCHES (METERS)	
BURY: (ROADWAY DITCHES)	N/A FEET INCHES (METERS)	
TYPE, SIZE AND SPACING OF INSULATORS OR SUPPORTS	SEE DETAIL THIS SHEET	
DISTANCE C.L. TRACK TO FACE OF JACKING/RECEIVING PITS	53 FEET INCHES (METERS)	
BURY: BASE OF RAIL TO BOTTOM JACKING/RECEIVING PITS	20.5 FEET INCHES (METERS)	
CATHODIC PROTECTION? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		

NOTE:
RIGHT-OF-WAY LIMITS ARE BASED ON
50-FOOT OFFSET FROM SURVEYED
RAILROAD CENTERLINE.



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APPROVED _____ APPROVED BY
QA _____ QA BY

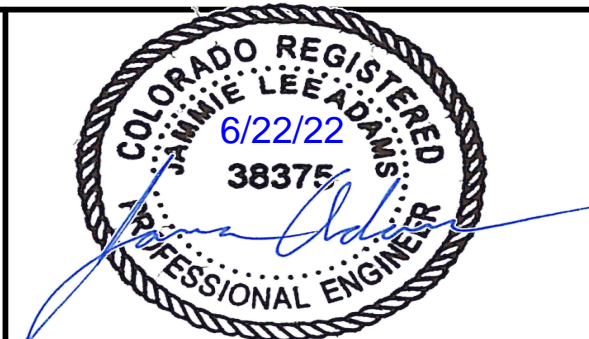
ATTENTION
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AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

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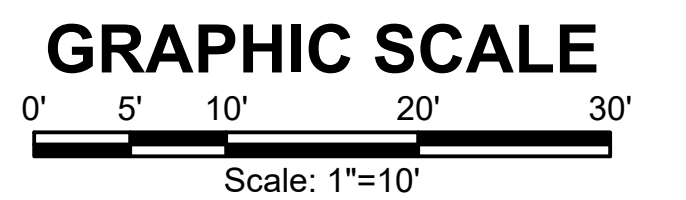
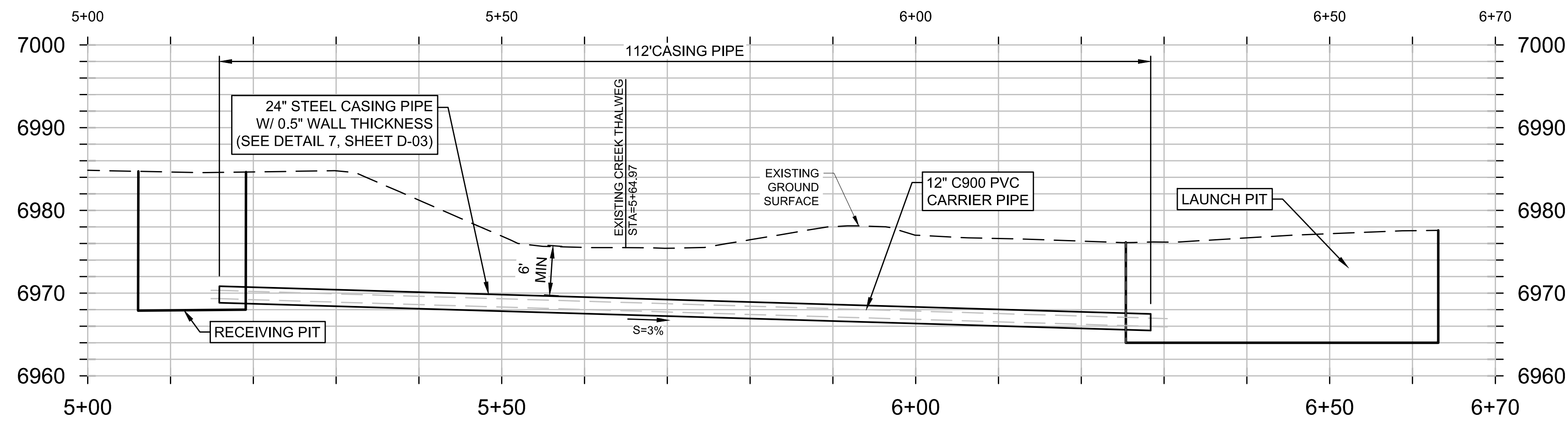
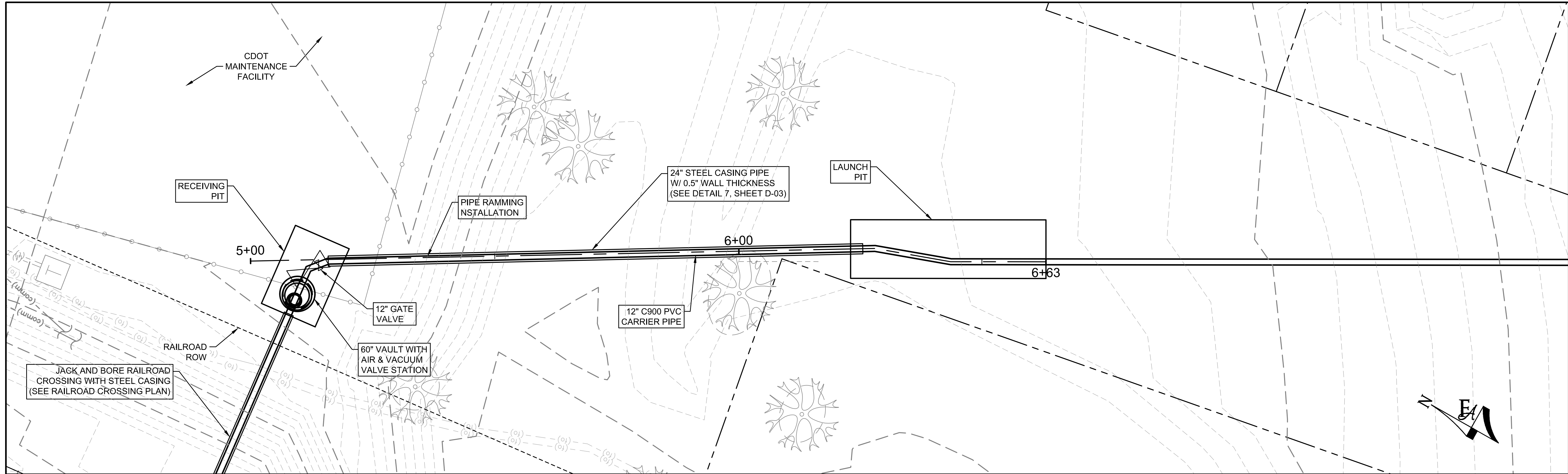
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MONUMENT WATERLINE

RAILROAD CROSSING

PROJECT NO: 04-20-0153
SHEET NO: C-36
DATE: MAY, 2022
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ATTENTION
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MONUMENT WATERLINE

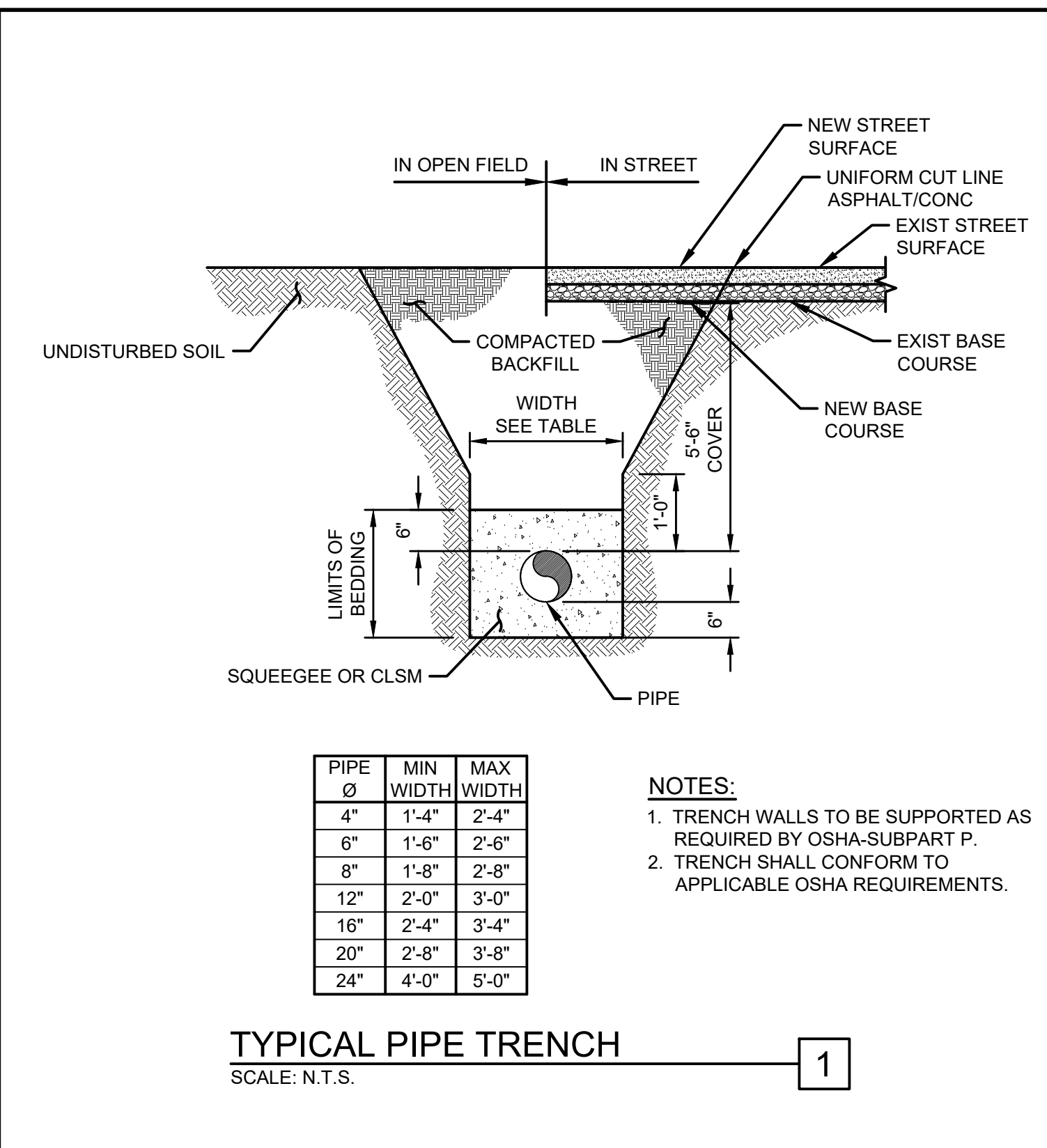
CRYSTAL CREEK CROSSING

PROJECT NO:
04-20-0153

SHEET NO:
C-37

DATE:
 MAY, 2022

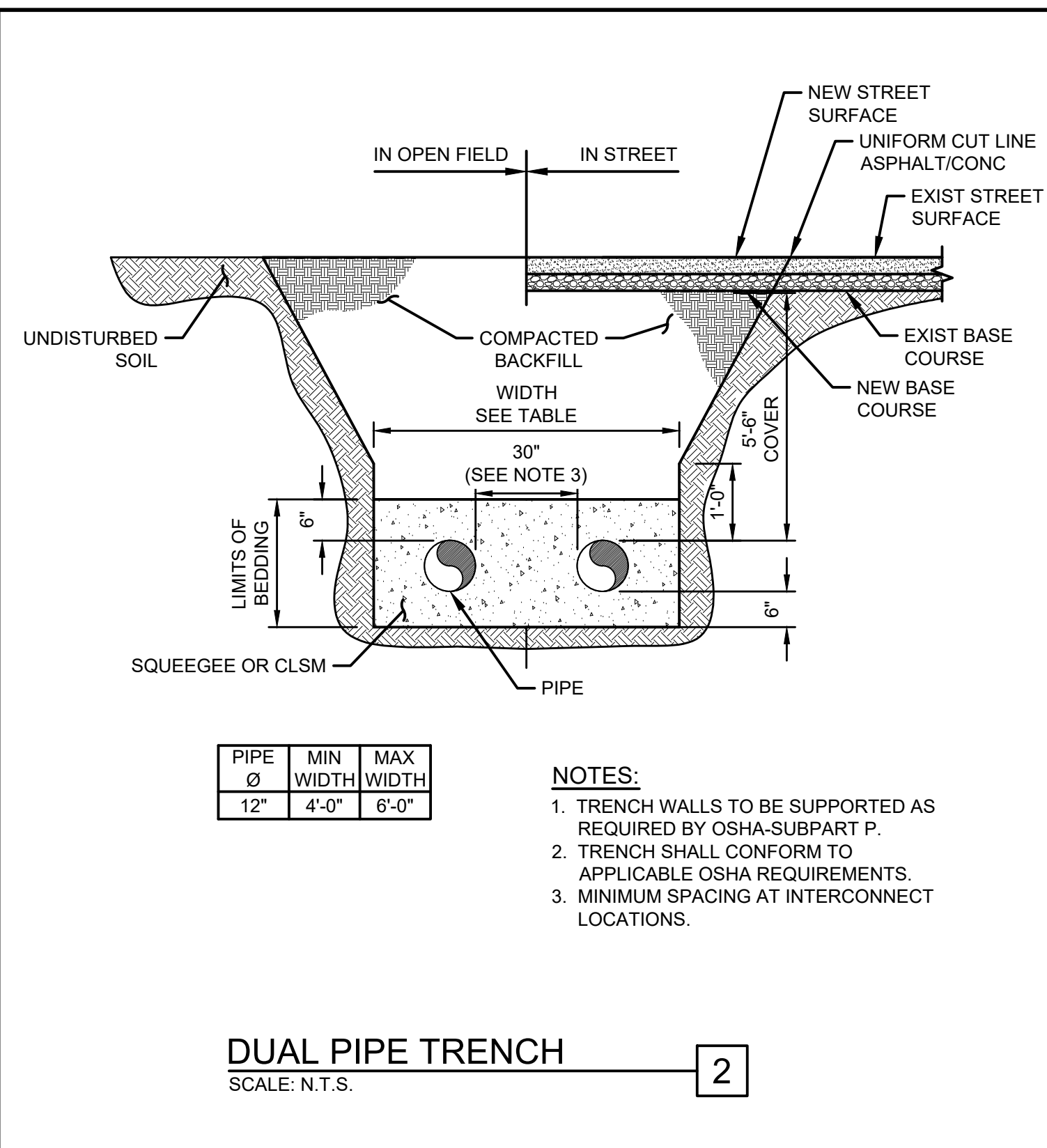
PAGE NO:
 42 OF 45



PIPE Ø	MIN WIDTH	MAX WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"
24"	4'-0"	5'-0"

NOTES:
 1. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA-SUBPART P.
 2. TRENCH SHALL CONFORM TO APPLICABLE OSHA REQUIREMENTS.

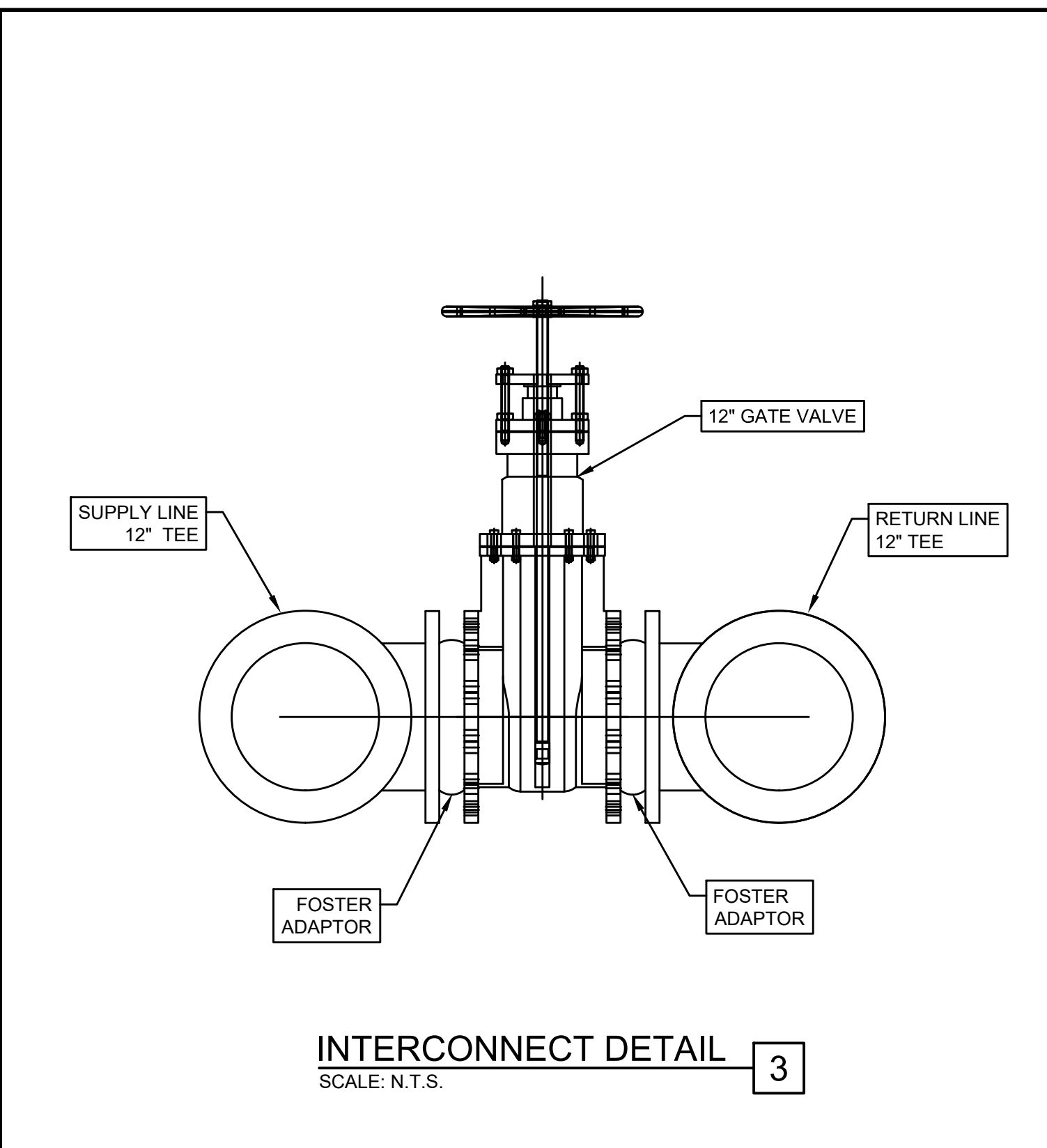
TYPICAL PIPE TRENCH
 SCALE: N.T.S. 1



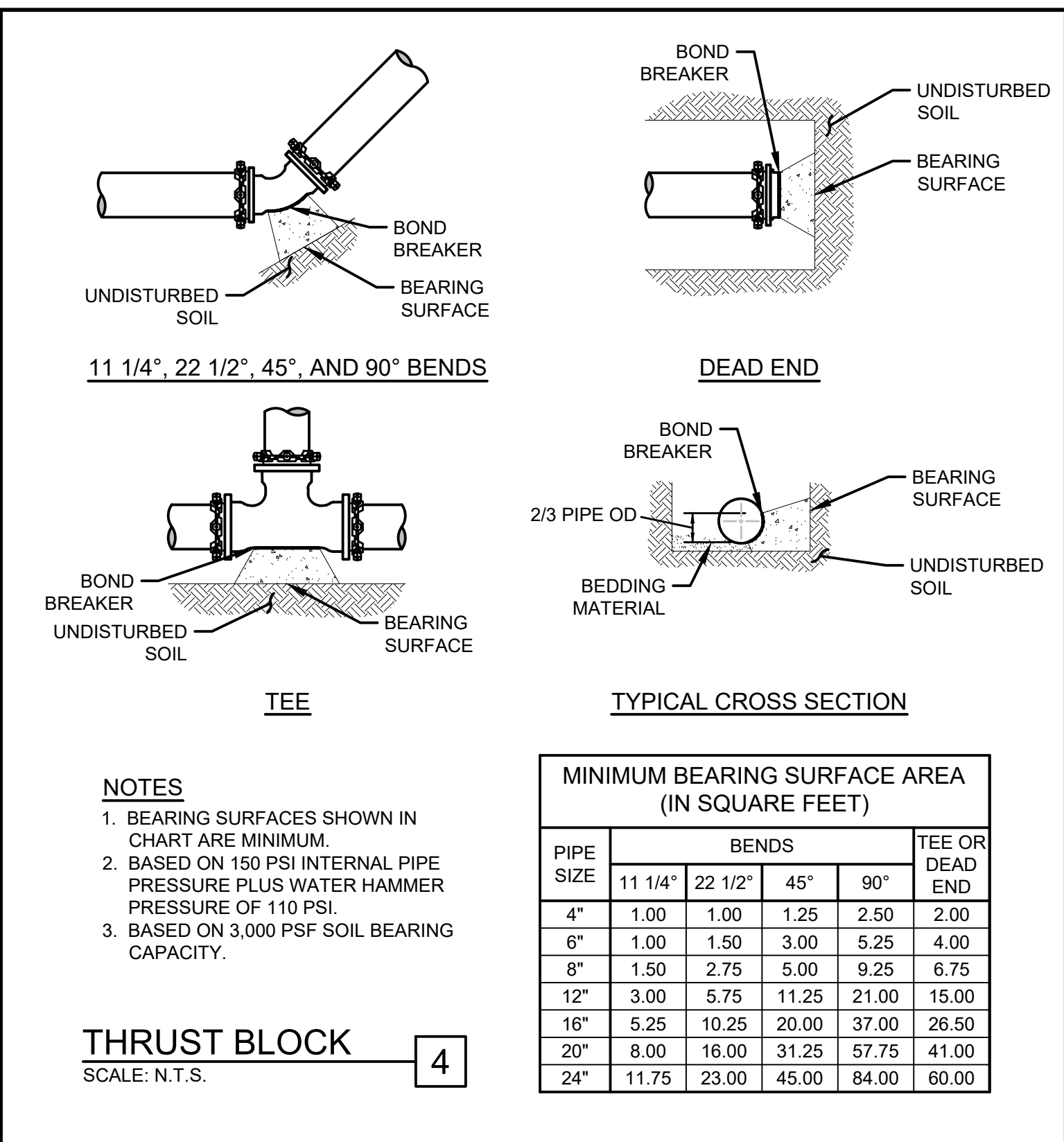
PIPE Ø	MIN WIDTH	MAX WIDTH
12"	4'-0"	6'-0"

NOTES:
 1. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA-SUBPART P.
 2. TRENCH SHALL CONFORM TO APPLICABLE OSHA REQUIREMENTS.
 3. MINIMUM SPACING AT INTERCONNECT LOCATIONS.

DUAL PIPE TRENCH
 SCALE: N.T.S. 2



INTERCONNECT DETAIL
 SCALE: N.T.S. 3

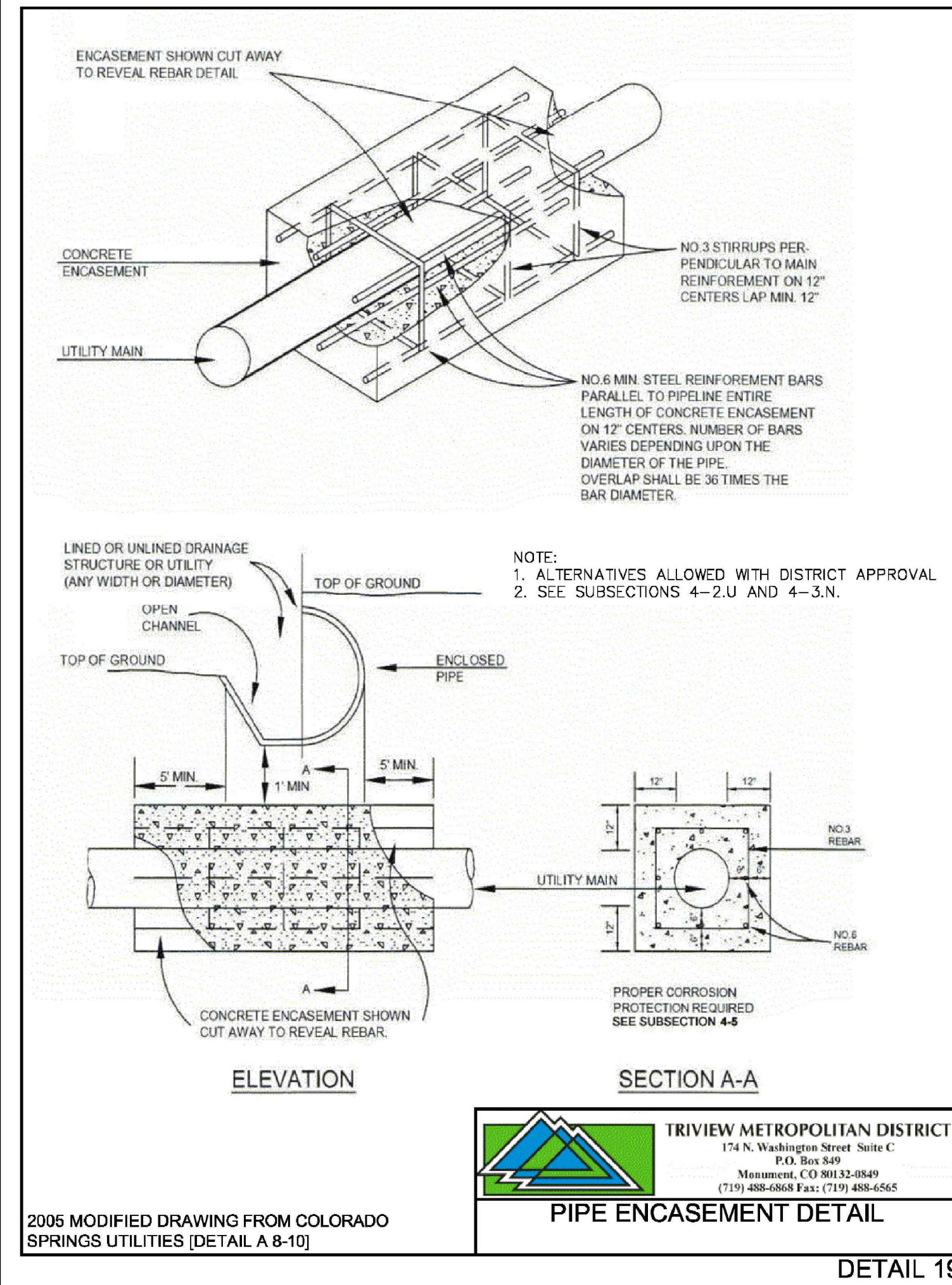


MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)

PIPE SIZE	BENDS				TEE OR DEAD END
	11 1/4"	22 1/2"	45"	90"	
4"	1.00	1.00	1.25	2.50	2.00
6"	1.00	1.50	3.00	5.25	4.00
8"	1.50	2.75	5.00	9.25	6.75
12"	3.00	5.75	11.25	21.00	15.00
16"	5.25	10.25	20.00	37.00	26.50
20"	8.00	16.00	31.25	57.75	41.00
24"	11.75	23.00	45.00	84.00	60.00

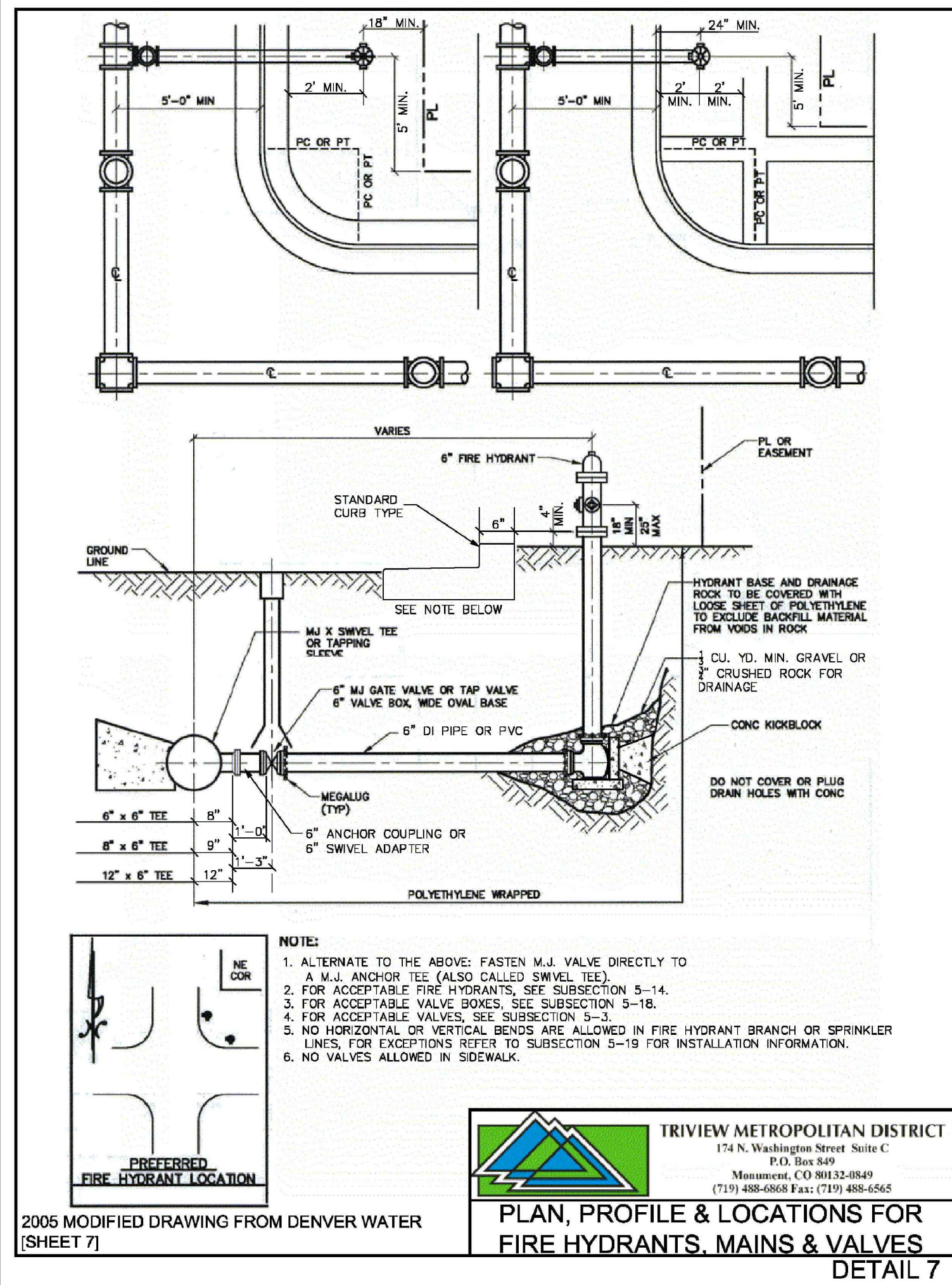
NOTES:
 1. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
 2. BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER PRESSURE OF 110 PSI.
 3. BASED ON 3,000 PSF SOIL BEARING CAPACITY.

THRUST BLOCK
 SCALE: N.T.S. 4



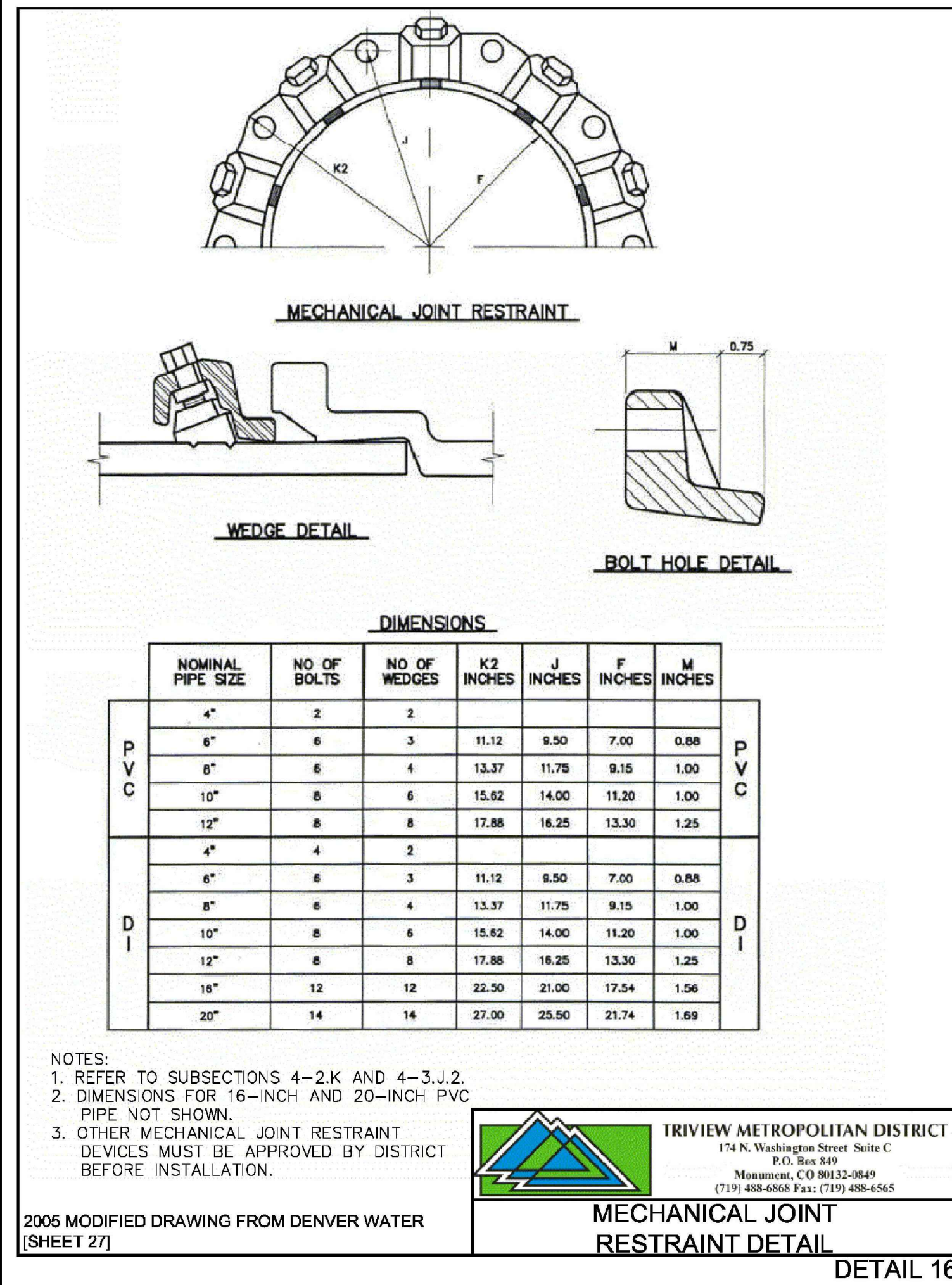
TRIVIEW METROPOLITAN DISTRICT
 174 N. Washington Street Suite C
 P.O. Box 849
 Monument, CO 80132-0849
 (719) 488-6868 Fax: (719) 488-6565

2005 MODIFIED DRAWING FROM COLORADO SPRINGS UTILITIES (DETAIL A 8-10)
PIPE ENCASUREMENT DETAIL
 DETAIL 19



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2005 MODIFIED DRAWING FROM DENVER WATER (SHEET 7)
PLAN, PROFILE & LOCATIONS FOR FIRE HYDRANTS, MAINS & VALVES
 DETAIL 7



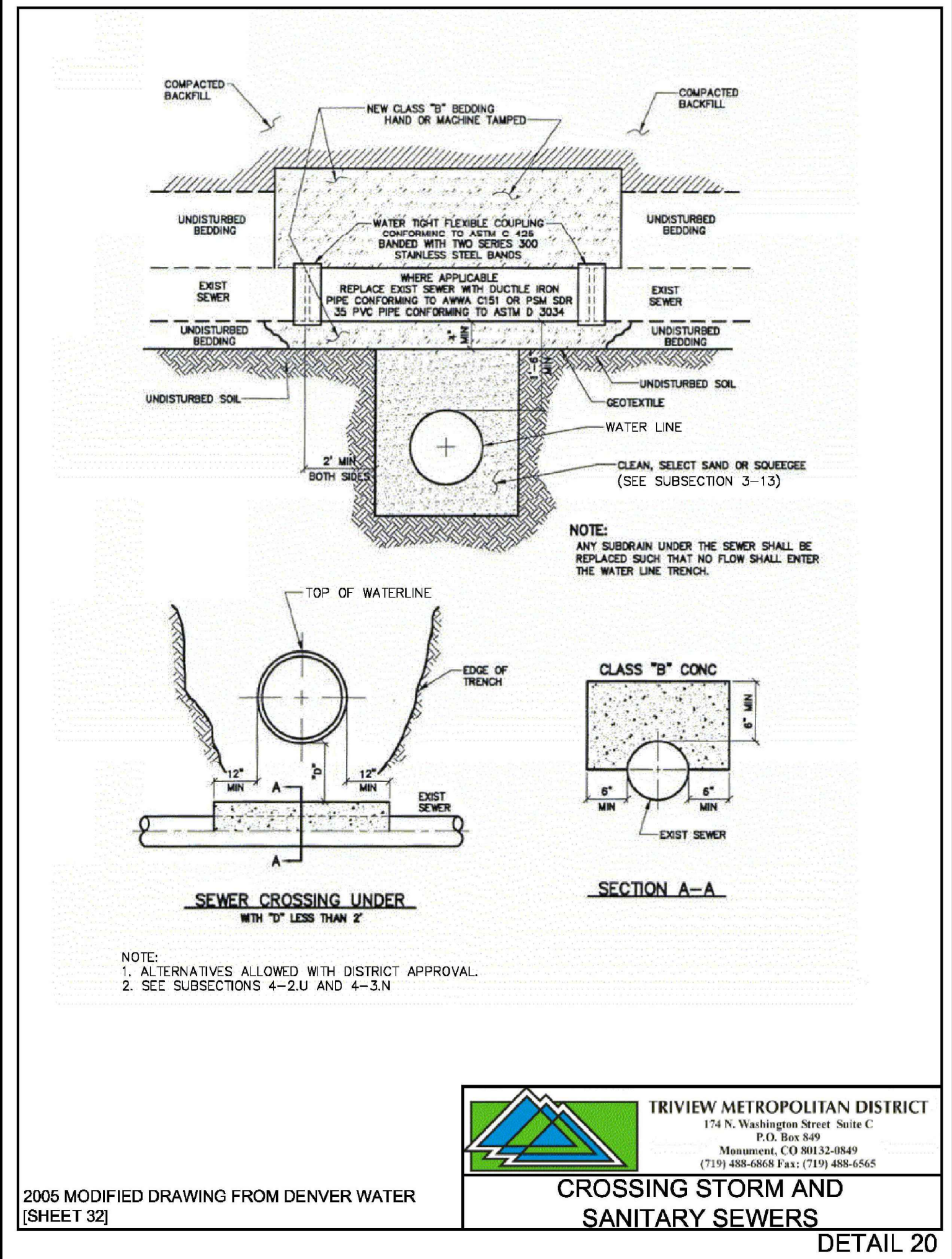
DIMENSIONS

NOMINAL PIPE SIZE	NO OF BOLTS	NO OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES
4"	2	2				
6"	4	4	11.12	9.50	7.00	0.88
8"	6	6	13.37	11.75	9.15	1.00
10"	8	8	15.62	14.00	11.20	1.00
12"	8	8	17.88	16.25	13.30	1.25
16"	12	12	22.50	21.00	17.54	1.56
20"	14	14	27.00	25.50	21.74	1.89

NOTES:
 1. REFER TO SUBSECTIONS 4-2.K AND 4-3.J.2.
 2. DIMENSIONS FOR 16-INCH AND 20-INCH PVC PIPE NOT SHOWN.
 3. OTHER MECHANICAL JOINT RESTRAINT DEVICES MUST BE APPROVED BY DISTRICT BEFORE INSTALLATION.

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2005 MODIFIED DRAWING FROM DENVER WATER (SHEET 27)
MECHANICAL JOINT RESTRAINT DETAIL
 DETAIL 16



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2005 MODIFIED DRAWING FROM DENVER WATER (SHEET 32)
CROSSING STORM AND SANITARY SEWERS
 DETAIL 20

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 APPROVED: APPROVED BY
 QA: QA BY

ATTENTION
 LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" SCALE ACCORDINGLY)

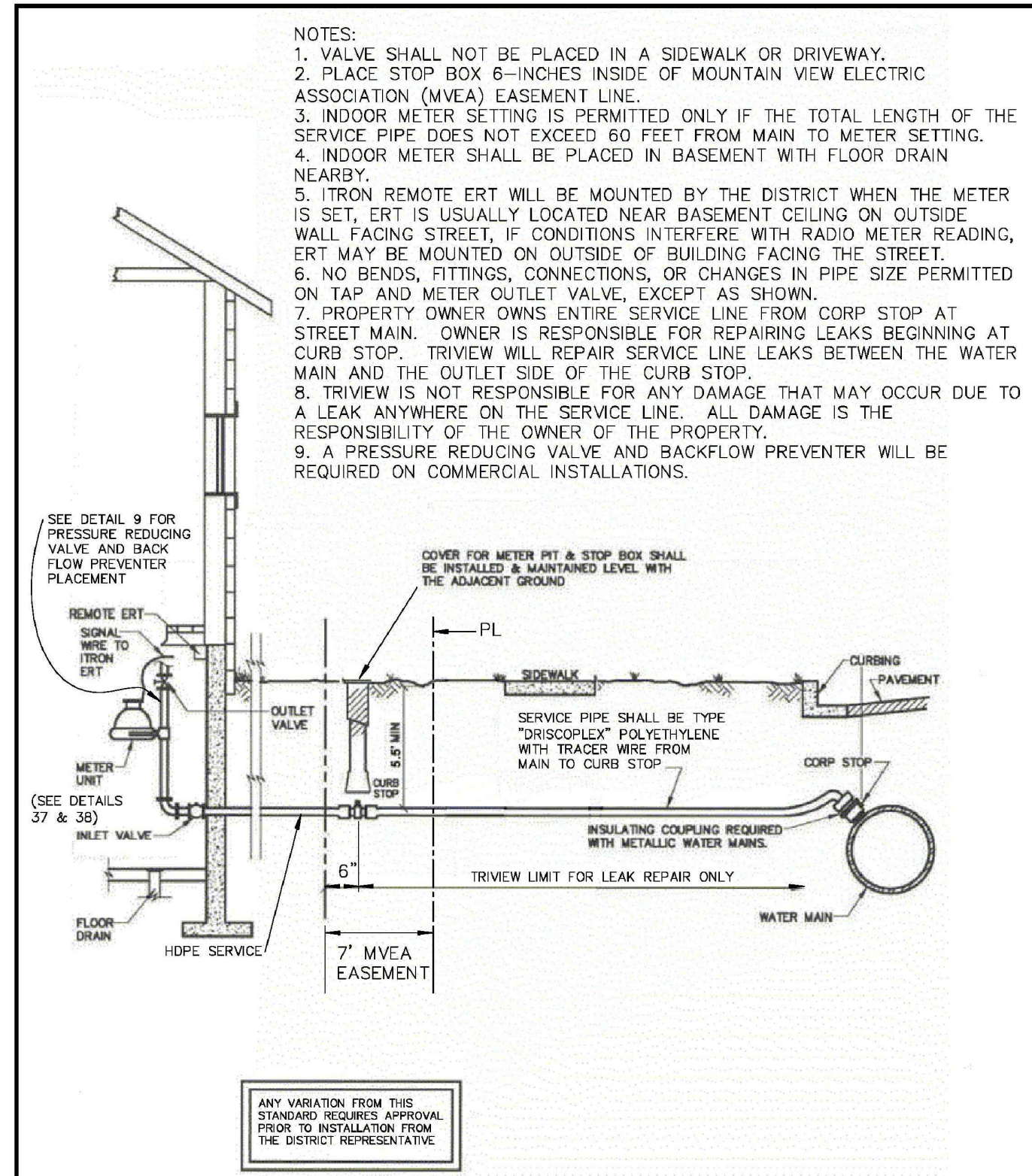
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 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720.232.6644

MONUMENT WATERLINE

DETAILS - 1

PROJECT NO: **04-20-0153**
 SHEET NO: **D-01**
 DATE: MAY, 2022
 PAGE NO: 43 OF 45

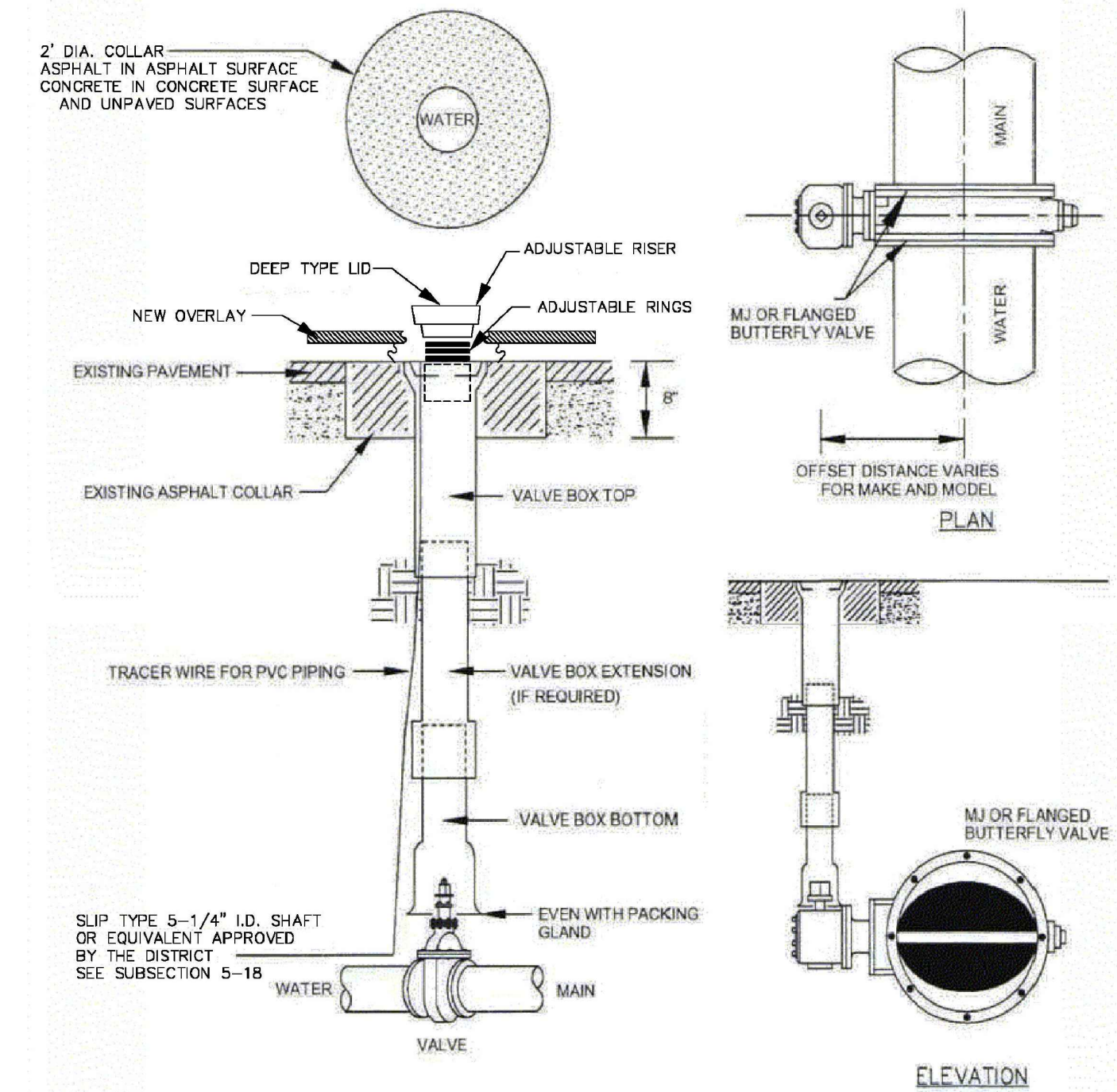


- NOTES:
1. VALVE SHALL NOT BE PLACED IN A SIDEWALK OR DRIVEWAY.
 2. PLACE STOP BOX 6-INCHES INSIDE OF MOUNTAIN VIEW ELECTRIC ASSOCIATION (MVEA) EASEMENT LINE.
 3. INDOOR METER SETTING IS PERMITTED ONLY IF THE TOTAL LENGTH OF THE SERVICE PIPE DOES NOT EXCEED 60 FEET FROM MAIN TO METER SETTING.
 4. INDOOR METER SHALL BE PLACED IN BASEMENT WITH FLOOR DRAIN NEARBY.
 5. ITRON REMOTE ERT WILL BE MOUNTED BY THE DISTRICT WHEN THE METER IS SET. ERT IS USUALLY LOCATED NEAR BASEMENT CEILING ON OUTSIDE WALL FACING STREET. IF CONDITIONS INTERFERE WITH RADIO METER READING, ERT MAY BE MOUNTED ON OUTSIDE OF BUILDING FACING THE STREET.
 6. NO BENDS, FITTINGS, CONNECTIONS, OR CHANGES IN PIPE SIZE PERMITTED ON TAP AND METER OUTLET VALVE, EXCEPT AS SHOWN.
 7. PROPERTY OWNER OWNS ENTIRE SERVICE LINE FROM CORP STOP AT STREET MAIN. OWNER IS RESPONSIBLE FOR REPAIRING LEAKS BEGINNING AT CURB STOP. TRIVIEW WILL REPAIR SERVICE LINE LEAKS BETWEEN THE WATER MAIN AND THE OUTLET SIDE OF THE CURB STOP.
 8. TRIVIEW IS NOT RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR DUE TO A LEAK ANYWHERE ON THE SERVICE LINE. ALL DAMAGE IS THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.
 9. A PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER WILL BE REQUIRED ON COMMERCIAL INSTALLATIONS.

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2005 MODIFIED DRAWING FROM DENVER WATER [SHEET 50]

SERVICE LINE, STOP BOX, & INSIDE INSTALLATION FOR 3/4" & 1" METER
DETAIL 8



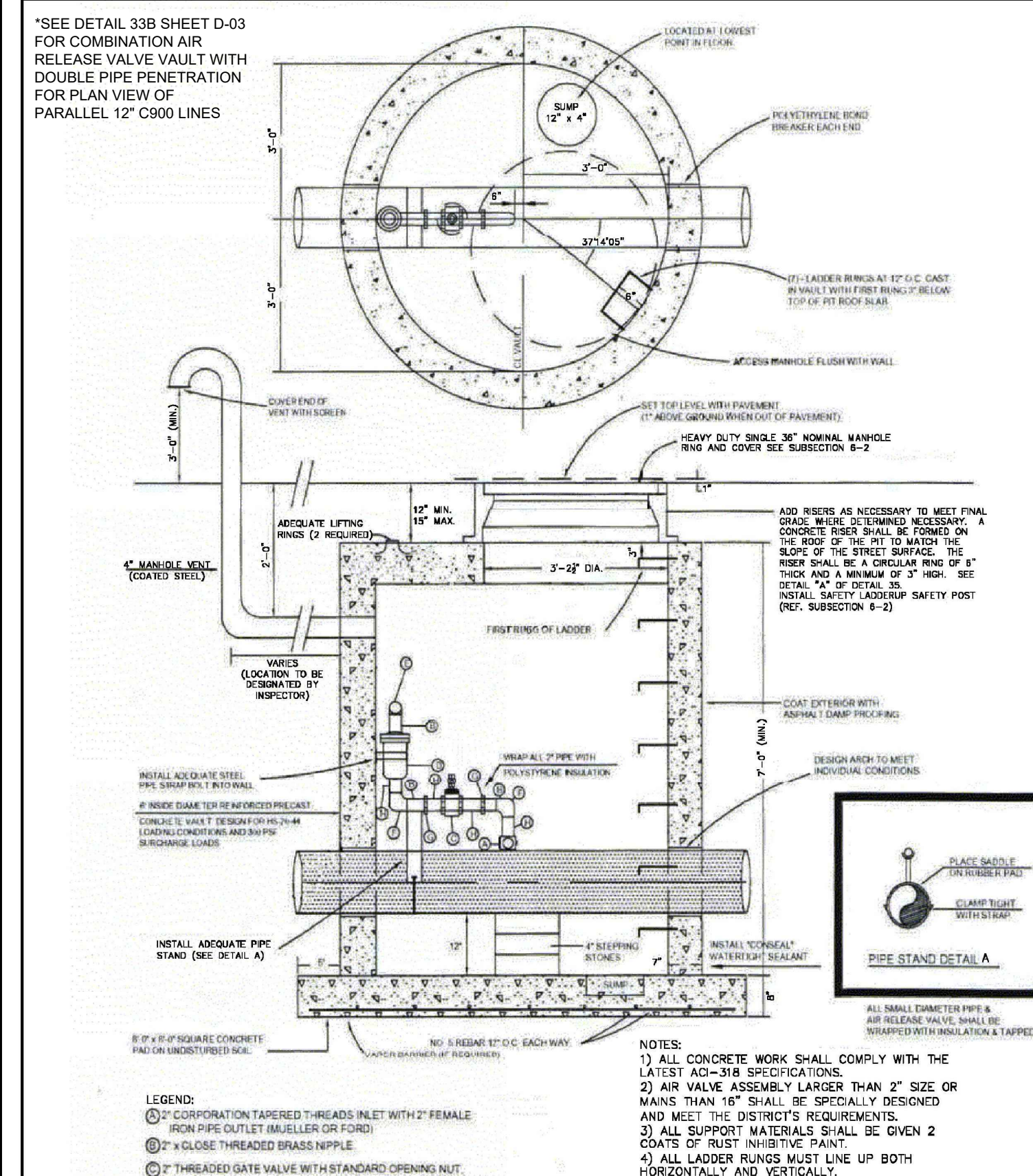
NOTE: MAIN AND FIRE HYDRANT VALVES AND VALVE BOXES SHALL BE LOCATED IN THE PAVEMENT SURFACE OF THE STREET, AND SHALL NOT BE IN THE CURB PAN, CURB OR SIDEWALK.

NOTE: MAKE AND MODEL MAY VARY FROM SCHEMATIC SHOWN IN DETAIL. CONTROL VALVE MAY BE LOCATED ON THE TOP OR SIDE.

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2005 MODIFIED DRAWING FROM COLORADO SPRINGS UTILITIES [DETAIL A 9-2]

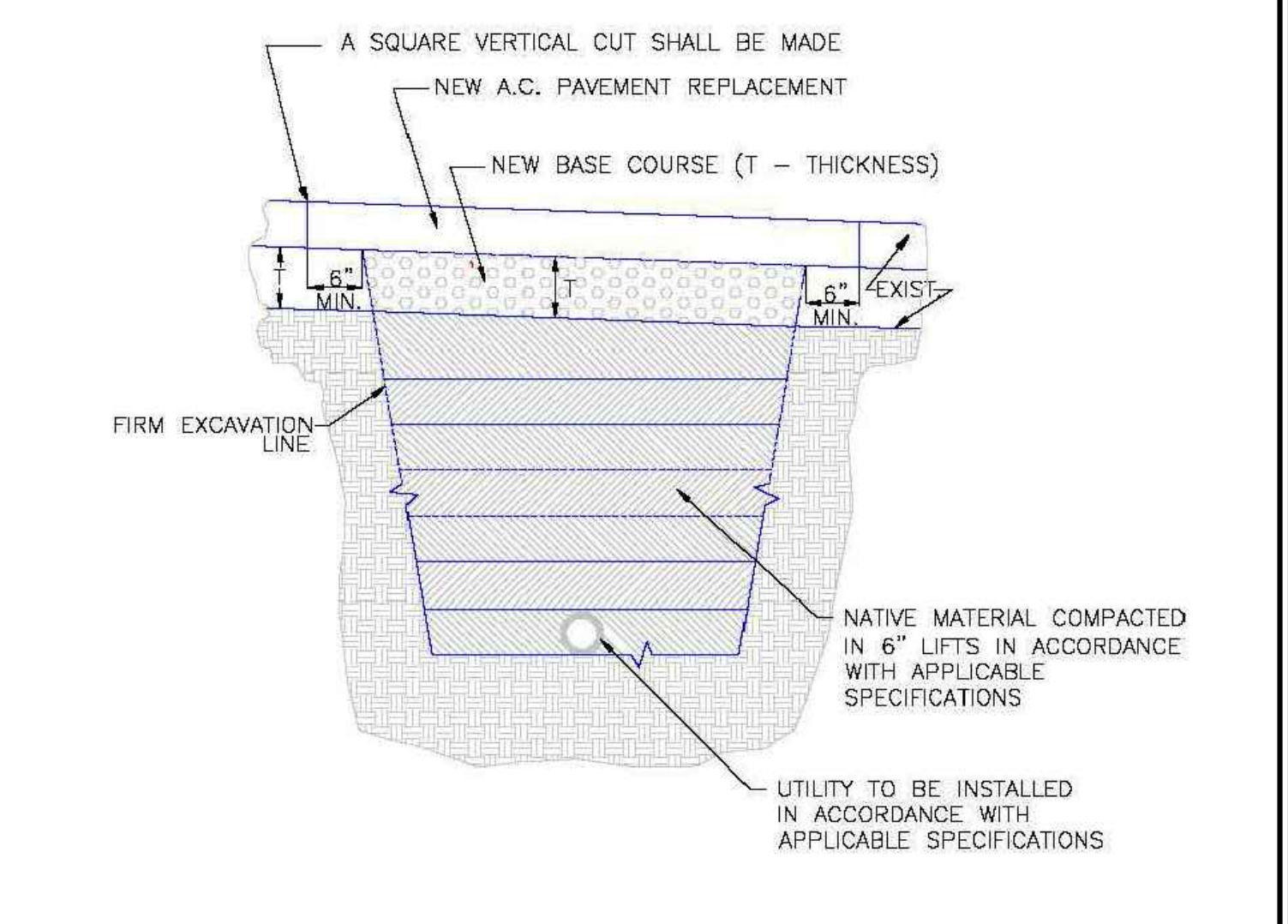
VALVE BOX INSTALLATION
DETAIL 27



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2005 MODIFIED DRAWING FROM COLORADO SPRINGS UTILITIES [DETAIL A 1-7]

2-INCH AIR AND VACUUM VALVE STATION
DETAIL 33



- NOTES:
1. THIS DETAIL MAY BE USED FOR PAVEMENT CUTS LESS THAN 200 SQ. FT.
 2. EXISTING PAVEMENT MAY BE ROUGH CUT INITIALLY IN CONJUNCTION WITH TRENCHING.
 3. A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
 4. THICKNESS OF NEW A.C. PAVEMENT REPLACEMENT SHALL MATCH EXISTING (4\"/>
- SCALE: NOT TO SCALE

DATE APPROVED: 8/11/11

APPROVED: André P. Brackin

Utility Trench Repair Detail
Asphalt Pavement
Standard Drawing

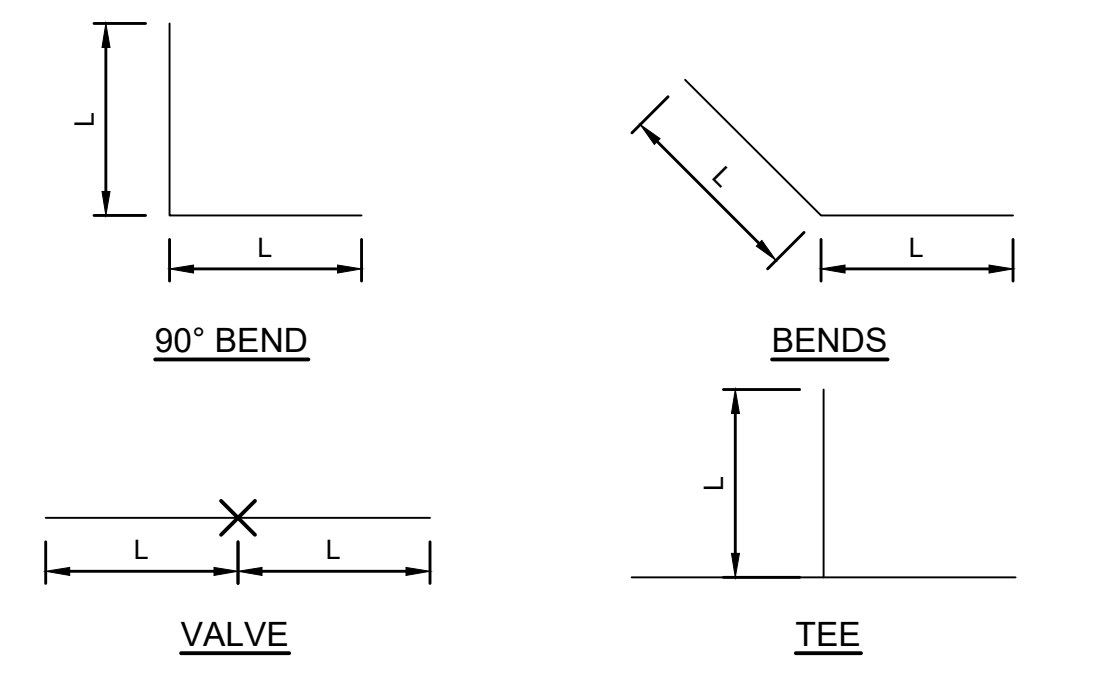
REVISION DATE: 11/10/04

FILE NAME: SD_4-20

DEPARTMENT OF TRANSPORTATION

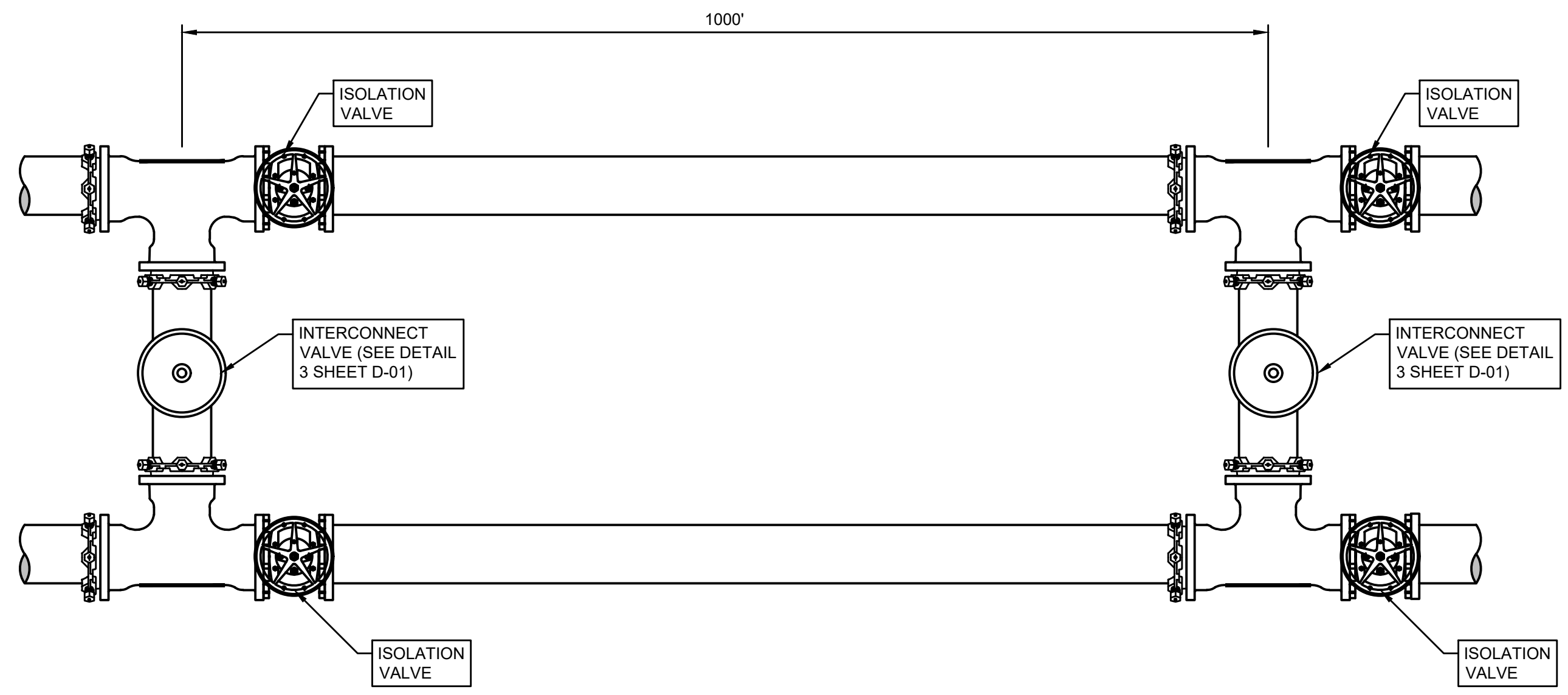
PASO COUNTY DEPARTMENT OF TRANSPORTATION

- NOTES
1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
 2. D = DIAMETER, L = LENGTH, G = GRADE OF STEEL, L1 = LENGTH ON SMALL SIDE, L2 = LENGTH ON LARGE SIDE
 3. MINIMUM 5.5' GROUND COVER REQUIRED.
 4. BASED ON 150 PSI WORKING PRESSURE, FOR L AND PRESSURES LISTED ON DETAIL 4b OF THE "TOWN OF MONUMENT & TRIVIEW METROPOLITAN DISTRICT WATER UTILITY POLICIES AND STANDARDS".
 5. MS = MILD STEEL ROD ASTM A36
 6. HS = HIGH STRENGTH ROD ASTM A193 GRADE B7.
 7. NUTS SHALL BE ASTM A307 GRADE A OR B HEXAGON HEAVY SERIES. HS NUTS SHALL BE ASTM A194, GRADE 2H.
 8. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
 9. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
 10. 12-INCH AND SMALLER IN-LINE VALVES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE.
 11. A SECOND VALVE WILL BE REQUIRED TO BE CLOSED WHEN EXCAVATING NEXT TO AN EXISTING VALVE.
 12. ON ALL BENDS, THRUST BLOCKS SHALL BE USED IN ADDITION TO RESTRAINT.
 13. WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS, THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE, NOT THE SIZE OF THE VALVE.



ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE									
PIPE SIZE	6"			8"			12"		
FITTING	D	L	G	D	L	G	D	L	G
90° BEND	N/A	N/A	N/A	3/4"	60'	MS	3/4"	86'	HS
45° BEND	N/A	N/A	N/A	3/4"	18'	MS	3/4"	25'	HS
22.5° BEND	N/A	N/A	N/A	3/4"	5'	MS	N/A	N/A	N/A
11.25° BEND	N/A	N/A	N/A	3/4"	1'	MS	N/A	N/A	N/A
VALVE/TEE	3/4"	45'	MS	3/4"	60'	MS	N/A	N/A	N/A

LENGTH OF RESTRAINED PIPE
SCALE: N.T.S.



INTERCONNECT VALVE SPACING DETAIL
SCALE: N.T.S.

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NO.	REVISIONS	BY	DATE

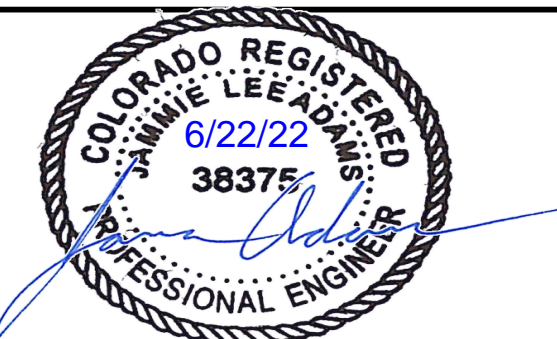
DRAWN: S. CALE
DESIGNED: DESIGNED BY
APPROVED: APPROVED BY
QA: QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID



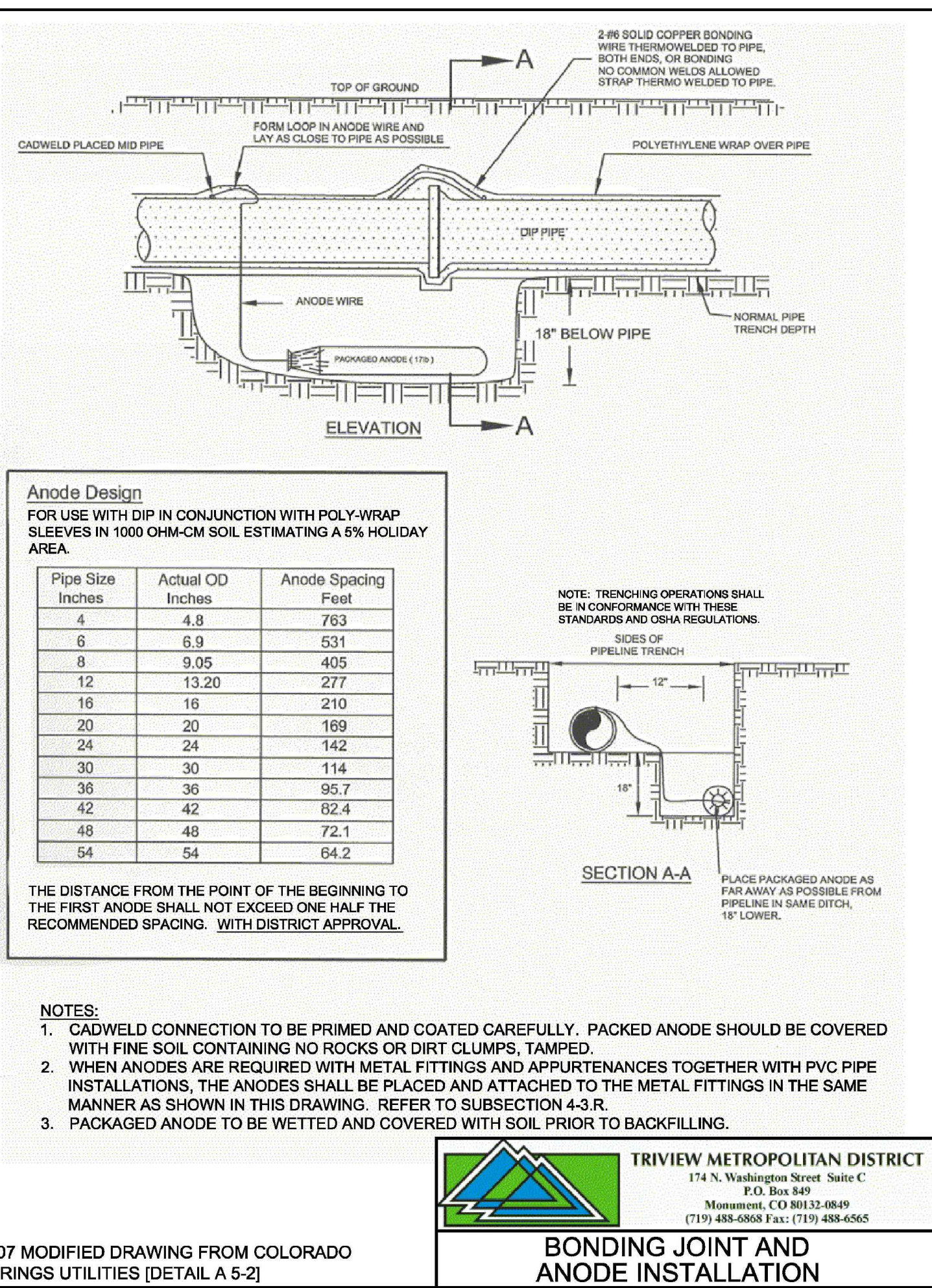
FORSYGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



MONUMENT WATERLINE

DETAILS - 2

PROJECT NO: 04-20-0153	PAGE NO: 44 OF 45
SHEET NO: D-02	DATE: MAY, 2022



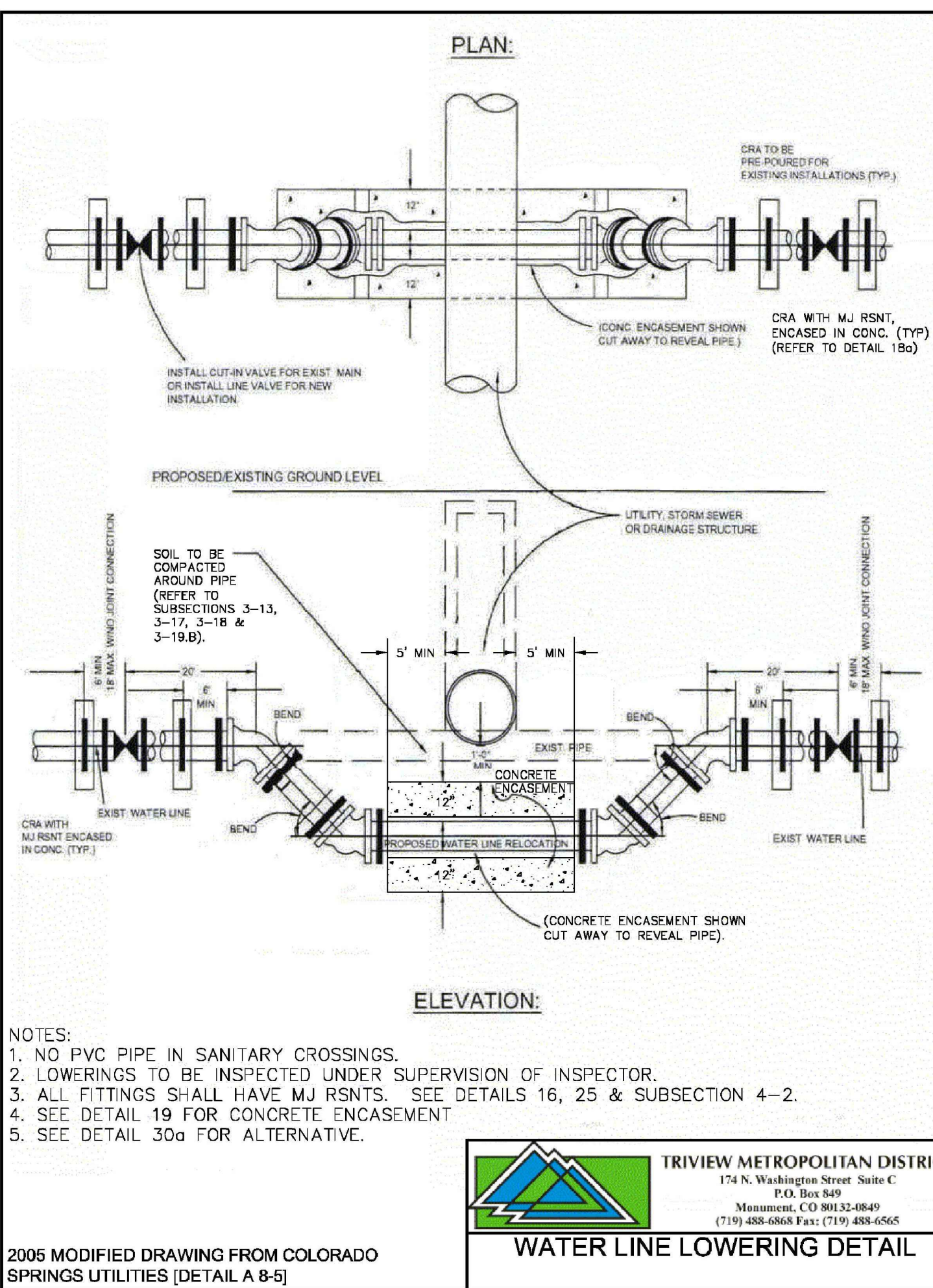
Anode Design
FOR USE WITH DIP IN CONJUNCTION WITH POLY-WRAP SLEEVES IN 1000 OHM-CM SOIL ESTIMATING A 5% HOLIDAY AREA.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet
4	4.8	763
6	6.9	531
8	9.05	405
12	13.20	277
16	16	210
20	20	169
24	24	142
30	30	114
36	36	95.7
42	42	82.4
48	48	72.1
54	54	64.2

- NOTES:**
- CADWELD CONNECTION TO BE PRIMED AND COATED CAREFULLY. PACKED ANODE SHOULD BE COVERED WITH FINE SOIL CONTAINING NO ROCKS OR DIRT CLUMPS, TAMPED.
 - WHEN ANODES ARE REQUIRED WITH METAL FITTINGS AND APPURTENANCES TOGETHER WITH PVC PIPE INSTALLATIONS, THE ANODES SHALL BE PLACED AND ATTACHED TO THE METAL FITTINGS IN THE SAME MANNER AS SHOWN IN THIS DRAWING. REFER TO SUBSECTION 4-3.R.
 - PACKAGED ANODE TO BE WETTED AND COVERED WITH SOIL PRIOR TO BACKFILLING.

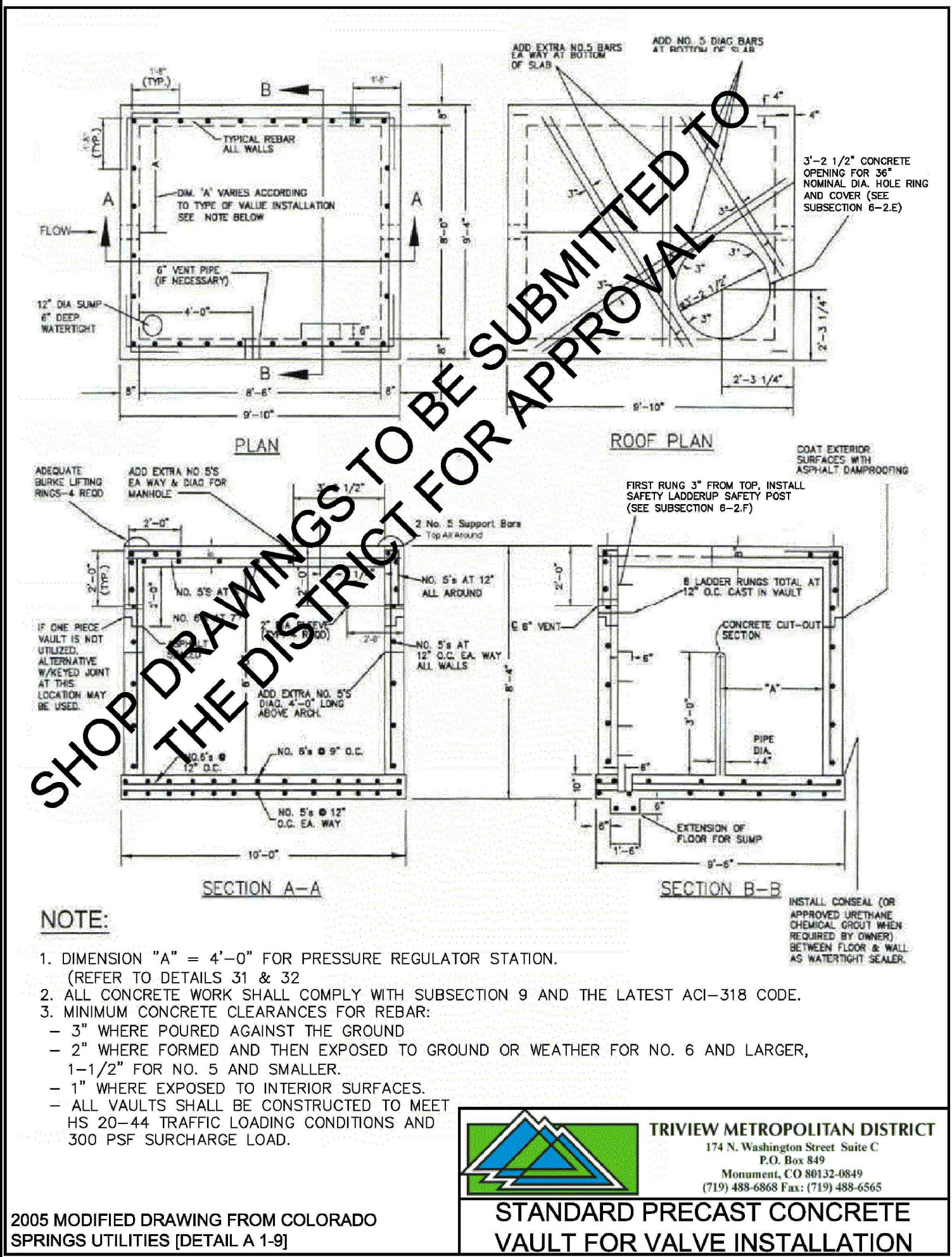
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BONDING JOINT AND ANODE INSTALLATION
DETAIL 39



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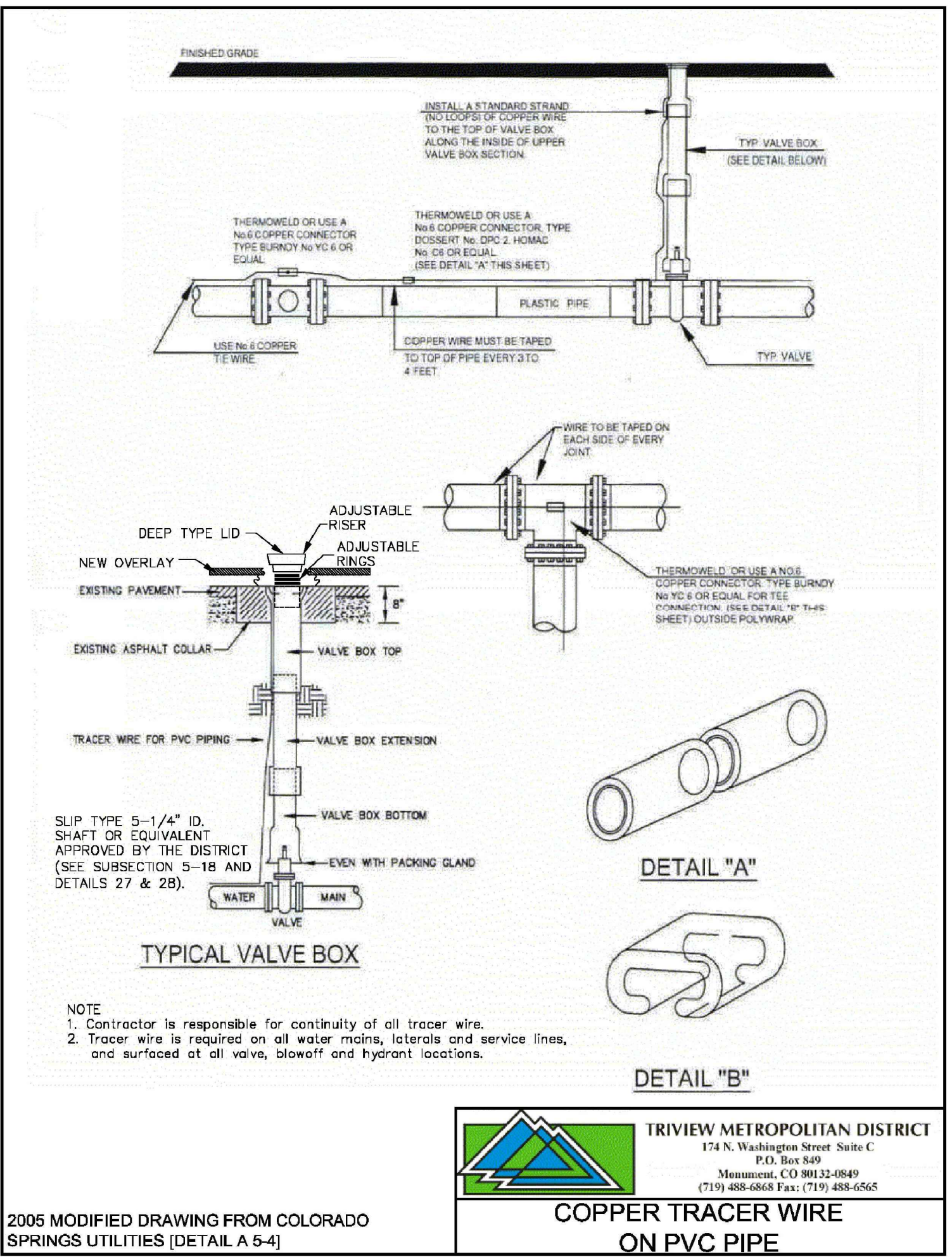
WATER LINE LOWERING DETAIL
DETAIL 30



- NOTE:**
- DIMENSION "A" = 4'-0" FOR PRESSURE REGULATOR STATION. (REFER TO DETAILS 31 & 32)
 - ALL CONCRETE WORK SHALL COMPLY WITH SUBSECTION 9 AND THE LATEST ACI-318 CODE.
 - MINIMUM CONCRETE CLEARANCES FOR REBAR:
 - 3" WHERE FORMED AND THEN EXPOSED TO GROUND OR WEATHER FOR NO. 6 AND LARGER, 1-1/2" FOR NO. 5 AND SMALLER.
 - 1" WHERE EXPOSED TO INTERIOR SURFACES.
 - ALL VAULTS SHALL BE CONSTRUCTED TO MEET HS 20-44 TRAFFIC LOADING CONDITIONS AND 300 PSF SURCHARGE LOAD.

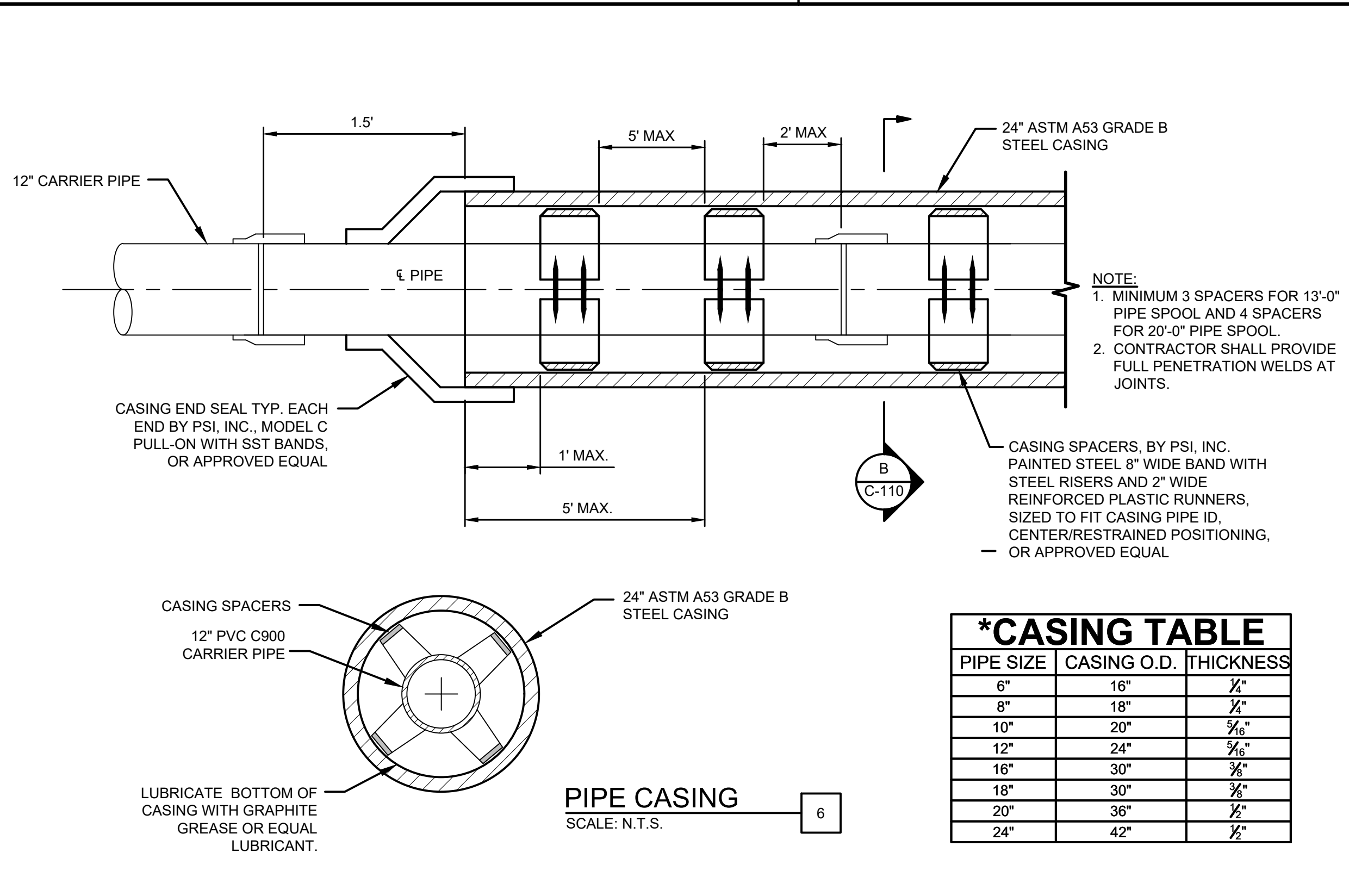
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STANDARD PRECAST CONCRETE VAULT FOR VALVE INSTALLATION
DETAIL 34



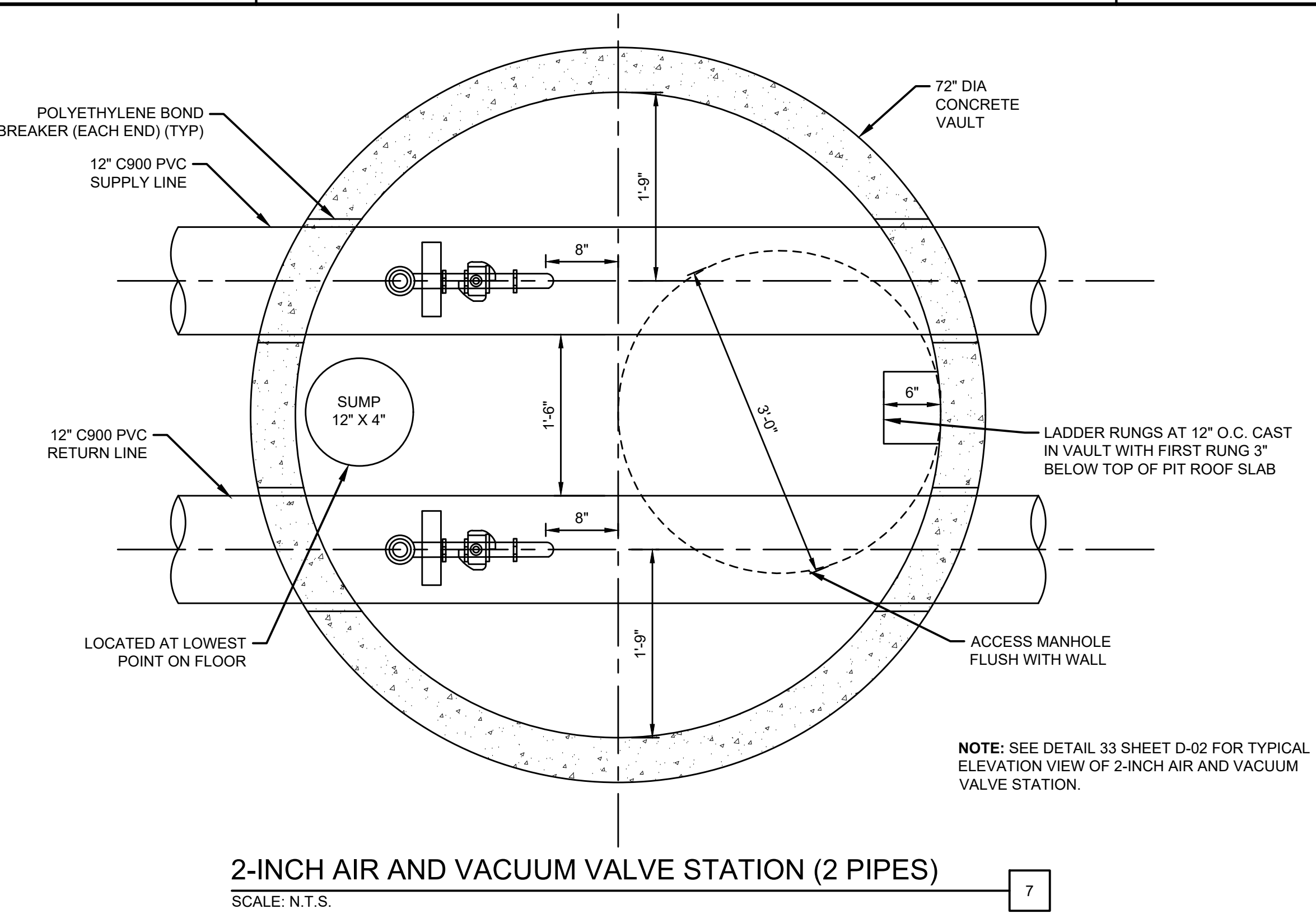
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COPPER TRACER WIRE ON PVC PIPE
DETAIL 6



***CASING TABLE**

PIPE SIZE	CASING O.D.	THICKNESS
6"	16"	3/4"
8"	18"	3/4"
10"	20"	5/8"
12"	24"	3/4"
16"	30"	3/4"
18"	30"	3/4"
20"	36"	3/4"
24"	42"	3/4"



2-INCH AIR AND VACUUM VALVE STATION (2 PIPES)
SCALE: N.T.S.

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644



MONUMENT WATERLINE

DETAILS - 3

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DRAWN: S. CALE
 DESIGNED: DESIGNED BY
 APPROVED: APPROVED BY
 QA: QA BY

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

ISSUED FOR BID



FORSYGREN Associates Inc.



MONUMENT WATERLINE

DETAILS - 3

PROJECT NO: **04-20-0153**
SHEET NO: **D-03**
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