

SHEET INDEX

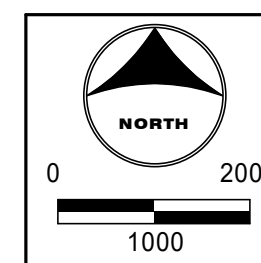
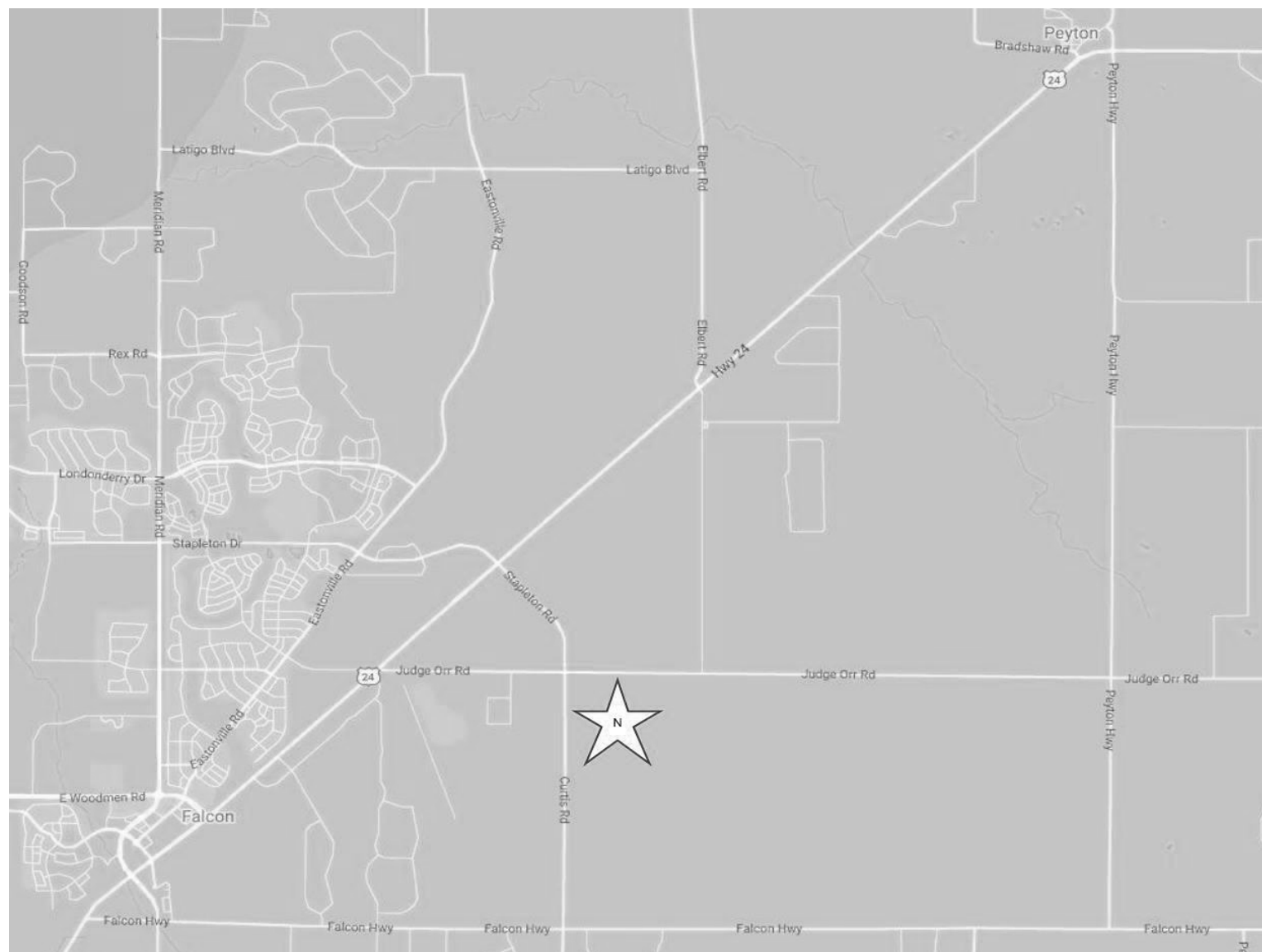
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S507 TYPICAL MASONRY DETAILS	IC501 P&ID - PROCESS
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S509 ROOF FRAMING DETAILS	IC600 CONTROL CIRCUIT SCHEDULES

TOTAL SHEETS: 80

D.R. HORTON - GRANDVIEW RESERVE SANITARY SEWER LIFT STATION DESIGN & PERMITTING SERVICES

EL PASO COUNTY
PEYTON, COLORADO
2024

LOCATION MAP



VICINITY MAP
1"=2000'
HORIZONTAL CONTROL
MODIFIED COORDINATE SYSTEM -
SEE SHEETS IN DRAWINGS
VERTICAL DATUM
NAVD88

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 MANUAL, VOLUMES 1 AND 2, 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 HAS 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.

JENNIFER IRVINE, P.E. _____ DATE _____
COUNTY ENGINEER / ECM ADMINISTRATOR

ENGINEER'S STATEMENT (FOR GEC PLAN WITHIN CONSTRUCTION DRAWING SET):

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

GREG PANZA, P.E. #37081 _____ DATE _____
FOR AND ON BEHALF OF HR GREEN, INC.

OWNER'S STATEMENT (FOR GEC PLAN WITHIN CONSTRUCTION DRAWING SET):

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.

OWNER'S SIGNATURE _____ DATE _____

ENGINEERS STATEMENT:

THE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE STATE OF COLORADO.

GREG PANZA, P.E. #37081 _____ DATE _____
FOR AND ON BEHALF OF HR GREEN, INC.

PROJECT CONTACTS:

OWNER/DEVELOPER
D.R. HORTON
9555 S. KINGSTON COURT, SUITE 200
ENGELWOOD, CO 80112
TELE: (303) 488-0081
ATTN: RILEY HILLEN, PE AND BRYAN REID, PE
EMAIL: RHILLEN@DRHORTON.COM AND BAREID1@DRHORTON.COM

APPLICANT
HR GREEN
5613 DTC PARKWAY | SUITE 950
GREENWOOD VILLAGE, CO 80111
TELE: (720) 602-4999
ATTN: GREGORY PANZA P.E.
EMAIL: GPANZA@HRGREEN.COM

CIVIL ENGINEER
HR GREEN
5613 DTC PARKWAY | SUITE 950
GREENWOOD VILLAGE, CO 80111
TELE: (720) 602-4999
ATTN: GREGORY PANZA P.E.
EMAIL: GPANZA@HRGREEN.COM

GEOTECHNICAL ENGINEER
COMPANY: CTL | THOMPSON
ADDRESS: 5170 MARK DABLING BLVD
COLORADO SPRINGS, CO 80918
TELE: (719) 528-8300
ATTN: JEFF JONES
EMAIL: COLORADOSPRINGS@CTLTHOMPSON.COM

TRAFFIC ENGINEER
LSC TRANSPORTATION CONSULTANTS INC.
2504 EAST PIKES PEAK AVENUE, SUITE 304
COLORADO SPRINGS, CO 80909
TELE: &719) 633-2868
ATTN: JEFFREY C. HODSON, P.E.
EMAIL: LSC@LSCTRANS.COM

SURVEYOR
EDWARD JAMES SURVEYING, INC.
926 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
TELE: (719) 576-1216
ATTN: JONATHAN W. TESSIN
EMAIL: JTessin@EJSURVEYING.COM

UTILITY CONTACTS:

WATER
GRANDVIEW RESERVE METROPOLITAN DISTRICT
1272 KELLY JOHNSON BLVD. SUITE 100
COLORADO SPRINGS, CO 80921
TELE: (719) 499-8416
ATTN: PAUL HOWARD
EMAIL: PAULINFINITY1@MSN.COM

WASTEWATER / WATER
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
TELE: (719) 495-2500
CONTACT: CODY RITTER
EMAIL: CODY@WHMD.ORG

ELECTRIC / FIBER
MOUNTAIN VIEW ELECTRIC ASSOCIATION
11140 E. WOODMEN RD.
FALCON, CO 80831
TELE: (800) 388-9881
ATTN: GINA PERRY
EMAIL: GINA.P@MVEA.COOP

NATURAL GAS
BLACK HILLS ENERGY
198 COUNTY LINE RD.
PALMER LAKE, CO 80133
TELE: (719) 332-5856
ATTN: BOB SWATEK
EMAIL: BOB.SWATEK@BLACKHILLSCORP.COM

FIRE
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN RD.
FALCON, CO 80831
TELE: (719) 495-4050
ATTN: TRENT HARWIG
EMAIL: THARWIG@FALCONFIREPD.ORG

COMMUNICATIONS
CENTURY LINK
ZAYO
USWEST

90% CONSTRUCTION DOCUMENTS

PCD #

I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.
GREGORY LOUIS PANZA, P.E. _____ DATE: 00/00/0000 LICENSE NUMBER: 37081 MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025. PAGES OR SHEETS COVERED BY THIS SEAL: - _____ - _____ - _____
I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.
JEREMY D. MIRONAS, P.E. _____ DATE: 00/00/0000 LICENSE NUMBER: 47175 MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025. PAGES OR SHEETS COVERED BY THIS SEAL: - _____ - _____ - _____
I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.
DOUGLAS A. SULLIVAN, P.E. _____ DATE: 00/00/0000 LICENSE NUMBER: 57977 MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025. PAGES OR SHEETS COVERED BY THIS SEAL: - _____ - _____ - _____

I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.
KEVIN S. SPARROW, P.E. _____ DATE: 00/00/0000 LICENSE NUMBER: 47762 MY LICENSE RENEWAL DATE IS OCTOBER 31, 2025. PAGES OR SHEETS COVERED BY THIS SEAL: - _____ - _____ - _____
I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.
NAME, P.E. _____ DATE: 00/00/0000 LICENSE NUMBER: 12345 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023. PAGES OR SHEETS COVERED BY THIS SEAL: - _____ - _____ - _____
I HEARBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.
NAME, P.E. _____ DATE: 00/00/0000 LICENSE NUMBER: 12345 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023. PAGES OR SHEETS COVERED BY THIS SEAL: - _____ - _____ - _____



1975 RESEARCH PARKWAY, SUITE 230 | COLORADO SPRINGS, CO 80920
Phone: 719.300.4140 | Toll Free: 800.728.7805 | Fax: 713.965.0044 | HRGreen.com

DRAWN BY: Author	JOB DATE: 2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS
APPROVED: Approver	JOB NUMBER: 201662.07	0 _____ 1"
CAD DATE: 6/24/2024 5:04:18 PM		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY
CAD FILE: C:\Users\kbargender\Documents\201662_07_MEP_v21_kbarg.rvt		

NO.	DATE	BY	REVISION DESCRIPTION

	HR GREEN - COLORADO SPRINGS 1975 RESEARCH PARKWAY SUITE 230 COLORADO SPRINGS, CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044
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D.R. HORTON - GRANDVIEW RESERVE SANITARY SEWER LIFT STATION EL PASO COUNTY PEYTON, COLORADO
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GENERAL
COVER SHEET

SHEET G000

HR GREEN Xrns: XV-Row; XV-Util; xgl-1-dh01-Ls; XC-Lift-Station; XC-Electrical; XC-Driveway; XC-Util; XC-Dgn; XC-Initial-EC; XV-Dgn; Legend; Erosion_Control_Key; 01-DC-San-Fm; XV-Fema; Plug Valve MH

BASIS OF BEARING:

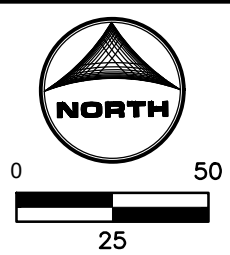
THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.

HORIZONTAL CONTROL INFORMATION:

CP-30 #5 REBAR N 1409728.89 E 3269717.58 EL: 6783.61
 CP-239 #4 REBAR W/ CAP PLS22573 N 1410039.67 E 3269634.39 EL: 6788.26

VERTICAL CONTROL INFORMATION:

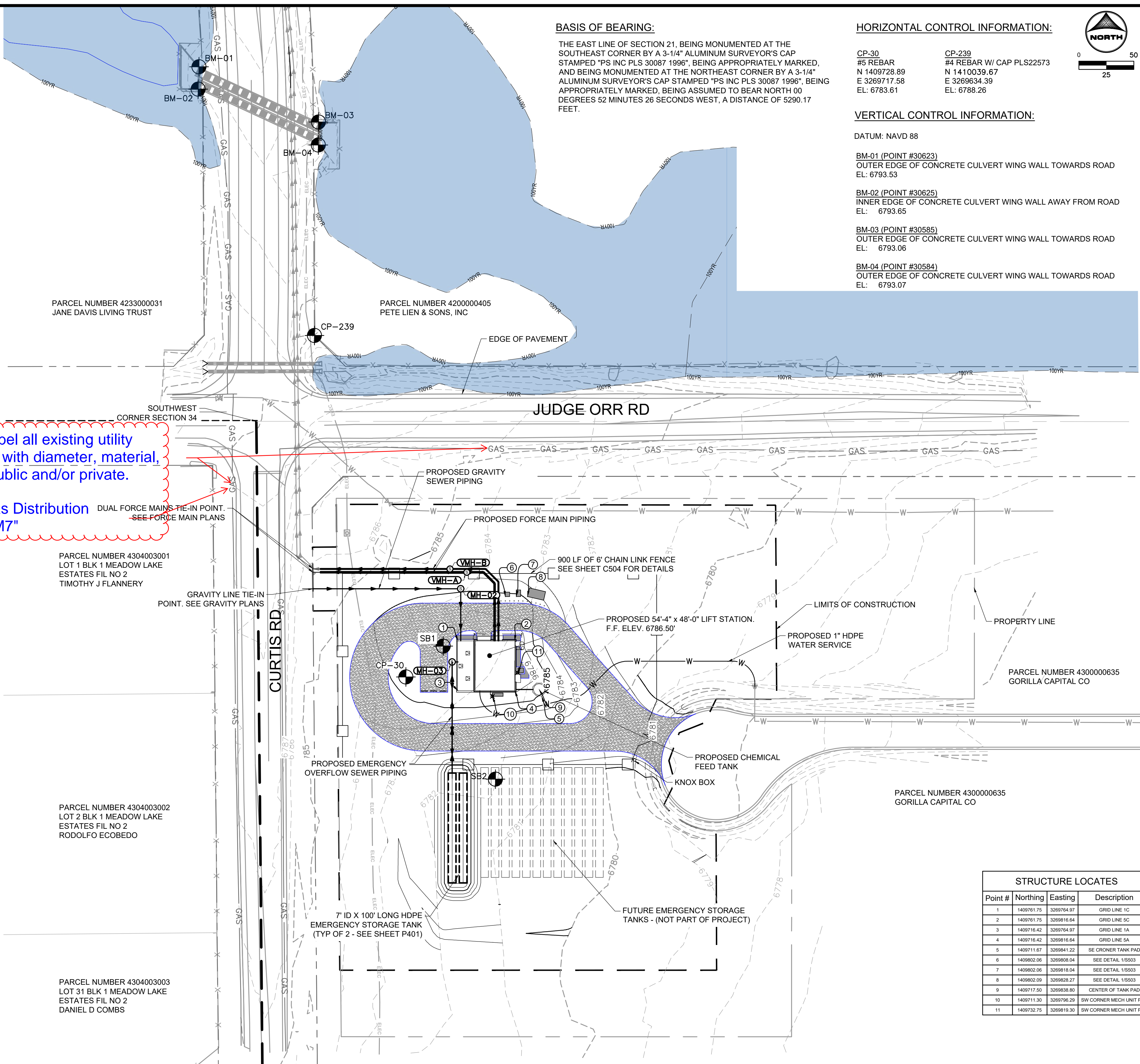
DATUM: NAVD 88
 BM-01 (POINT #30623) OUTER EDGE OF CONCRETE CULVERT WING WALL TOWARDS ROAD EL: 6793.53
 BM-02 (POINT #30625) INNER EDGE OF CONCRETE CULVERT WING WALL AWAY FROM ROAD EL: 6793.65
 BM-03 (POINT #30585) OUTER EDGE OF CONCRETE CULVERT WING WALL TOWARDS ROAD EL: 6793.06
 BM-04 (POINT #30584) OUTER EDGE OF CONCRETE CULVERT WING WALL TOWARDS ROAD EL: 6793.07



GENERAL NOTES:

- "SCREENED" (LIGHT) DELINEATION SHOWN IN THIS SHEET DENOTES EXISTING CONDITIONS. "SCREENED" INFORMATION WAS TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS AND FIELD SURVEY, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING OF MATERIALS AND BEGINNING CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
- ALL INFORMATION PROVIDED WAS TAKEN FROM SURVEYS AND/OR EXISTING PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL INFORMATION BEFORE BEGINNING ANY WORK.
- CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN EXISTING LEVEL OF SECURITY AT SITE AT ALL TIMES.
- OWNER IS NOT RESPONSIBLE FOR SECURED/UNSECURED STORED MATERIALS STORED ON SITE.
- ALL WORK INVOLVED IN THIS PROJECT SHALL BE CONSTRUCTED ON DEVELOPER OWNED LAND, EL PASO COUNTY OWNED RIGHT-OF-WAY, OR ON EASEMENTS OBTAINED BY THE DEVELOPER. CONTRACTOR SHALL RESTRICT CONSTRUCTION OPERATIONS TO WITHIN THE DESIGNATED RIGHT-OF-WAY OR CONSTRUCTION EASEMENTS. ACCESS TO ALL WORK AREAS SHALL BE BY ACCESS EASEMENTS DEFINED ON DRAWINGS. NO MATERIALS, EXCAVATED MATERIAL, OR MATERIAL, OR EQUIPMENT SHALL BE STORED ON, PARKED ON, DEPOSITED ON, OR DRIVEN OVER ANY PRIVATE PROPERTY UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE PROPERTY OWNER BY THE CONTRACTOR. A COPY OF SUCH WRITTEN AGREEMENT SHALL BE PROVIDED TO THE CITY AND THE ENGINEER. UPON COMPLETION, CONTRACTOR SHALL PROVIDE TO THE CITY AND THE ENGINEER A WRITTEN RELEASE SIGNED BY THE PROPERTY OWNER.
- CONTRACTOR SHALL MEASURE, RECORD, AND SUBMIT RECORD DRAWINGS AS REQUIRED IN CLOSEOUT SUBMITTALS SPECIFICATION SECTION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER DURING CONSTRUCTION AND SHALL PROVIDE ACCESS TO ALL UTILITIES PRIOR TO BEING BURIED; ALLOWING ACCURATE HORIZONTAL AND VERTICAL MEASUREMENTS TO BE ACQUIRED BY THE ENGINEER OR OWNER'S SURVEYOR. IN THE EVENT OF ANY DISCREPANCIES IDENTIFIED BY WOODMENHILLS METROPOLITAN DISTRICT (WHMD) AND AT NO COST TO WHMD, THE CONTRACTOR SHALL VERIFY THE LOCATION AND MEASUREMENTS OF ANY BURIED UTILITIES.
- THE CONTRACTOR SHALL VIDEO RECORD THE ENTIRE PROJECT PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS. THE CONTRACTOR SHALL PROVIDE ONE COPY TO THE OWNER AND ONE COPY TO THE ENGINEER PRIOR TO PROCEEDING WITH ANY FIELD WORK.
- 2023 WHMD WATER AND WASTEWATER STANDARD SPECIFICATIONS SHALL APPLY TO THIS PROJECT.
- TYPICAL WHMD STANDARDS AND SPECIFICATIONS ARE CALLED OUT PERIODICALLY THROUGHOUT PROJECT DOCUMENTS TO PROVIDE CLARIFICATION TO THE WHMD STANDARD SPECIFICATIONS OR FOR CONTRACTOR REFERENCE. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WHMD STANDARD SPECIFICATIONS. WHMD REFERENCE CALLOUTS DO NOT NEGATE CONTRACTOR FROM FOLLOWING ANY WHMD SPECIFICATIONS NOT EXPLICITLY CALLED OUT IN PROJECT DRAWINGS.
- CONTRACTOR SHALL CONTACT THE PRINCIPAL INSPECTOR 24 HOURS BEFORE BEGINNING CONSTRUCTION. CONTACT INFORMATION WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING.
- TEMPORARY FENCING: CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION FENCE AND PEDESTRIAN PROTECTION IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE FOR THE DURATION OF THE PROJECT. PROVIDE TEMPORARY FENCING AROUND ANY OPEN EXCAVATION DURING CONSTRUCTION TO PROHIBIT UNAUTHORIZED ENTRANCE. FENCES SHALL BE CLOSED AT NIGHT. TEMPORARY FENCE MINIMUM 6' TALL CHAIN LINK.
- DURING REMOVAL AND CONSTRUCTION THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS. DUST CONTROL MEASURES SHALL BE IN ACCORDANCE WITH COLORADO SPRINGS STORMWATER ENTERPRISE (SWENT) STORMWATER CONSTRUCTION MANUAL, BE APPROVED BY THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- CONTRACTOR RESPONSIBLE TO CLEAN ALL TRACKED DIRT FROM PAVED SURFACES AT END OF EACH WORK DAY. CONTRACTOR RESPONSIBLE TO SWEEP HAUL AND STAGING ROUTE AS NECESSARY TO KEEP CLEAR OF DIRT AND DEBRIS. WATER SHALL BE USED DURING STREET SWEEPING EXCEPT DURING FREEZING CONDITIONS.
- THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLANS REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

Show and label all existing utility service lines with diameter, material, and either Public and/or private.
 Label as "Gas Distribution Main: AE19M7"



Point #	Northing	Easting	Description
1	1409761.75	3269764.97	GRID LINE 1C
2	1409761.75	3269816.64	GRID LINE 1C
3	1409716.42	3269764.97	GRID LINE 1A
4	1409716.42	3269816.64	GRID LINE 1A
5	1409711.67	3269841.22	SEE CROKER TANK PAD
6	1409802.06	3269808.04	SEE DETAIL 1/S503
7	1409802.06	3269818.04	SEE DETAIL 1/S503
8	1409802.09	3269828.27	SEE DETAIL 1/S503
9	1409711.50	3269838.80	CENTER OF TANK PAD
10	1409711.30	3269796.29	SW CORNER MECH UNIT PAD
11	1409732.75	3269819.30	SW CORNER MECH UNIT PAD

90% CONSTRUCTION DOCUMENTS

DRAWN BY: BDB JOB DATE: 6/19/2024
 APPROVED: JPF JOB NUMBER: 201662.07
 CAD DATE: 6/21/2024
 CAD FILE: J:\2020\201662.07\CAD\Drawings\Civil_Station\LS_Civil

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 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION

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 HRGreen

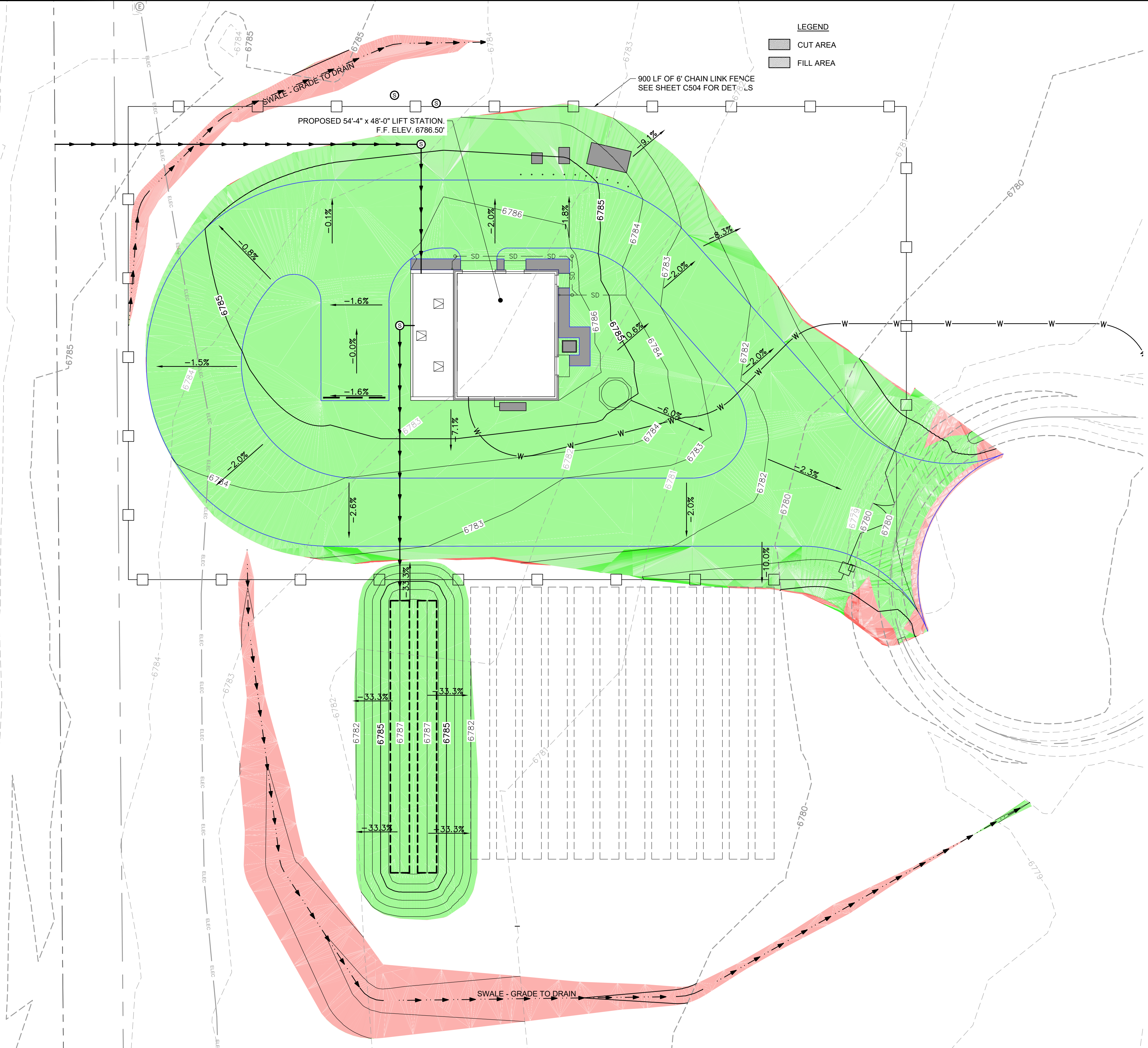
D.R. HORTON - GRANDVIEW RESERVE
 SANITARY SEWER LIFT STATION
 DESIGN & PERMITTING SERVICES
 EL PASO COUNTY
 PEYTON, CO

D-R HORTON
 America's Builder

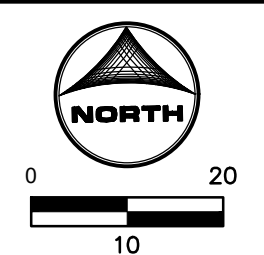
CIVIL
 SITE PLAN

SHEET
 C101

HR GREEN Xrefs: XC-Dwg; XC-Electrical; XC-Lift-Station; XC-Util; XY-Row; XV-Util; xg1-1-ph01-Ls; XC-Initial-EC



LEGEND
 CUT AREA
 FILL AREA



- GENERAL NOTES:**
 (GENERAL NOTES CONTAIN EXCERPTS FROM THE GEOTECHNICAL REPORT THAT ARE IN NO WAY MEANT TO RELIEVE CONTRACTOR FROM INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT.)
- REFER TO SHEET S.000 FOR ADDITIONAL GEOTECHNICAL REQUIREMENTS.
 - CONTRACTOR SHALL COMPLY WITH SPECIFICATION SECTION 31 5000 FOR SUPPORTS AND PROTECTION.
 - CONTRACTOR SHALL COMPLY WITH TECHNICAL SPECIFICATIONS AND WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS FOR DEWATERING, GRADING, EXCAVATION, FILL AND BACKFILL, AND TRENCHING. SEE GEOTECHNICAL INVESTIGATION REPORT FOR EARTHWORK RECOMMENDATIONS. INSTALL EARTHWORK ACCORDING TO WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS AND RECOMMENDATIONS FROM THE GEOTECHNICAL INVESTIGATION REPORT.
 - WATER LEVELS WERE OBSERVED WITHIN THE DEPTHS OF PLANNED EXCAVATION FOR THE PROPOSED STRUCTURES. DEWATERING WILL BE REQUIRED WHERE SEEPAGE IS ENCOUNTERED. GROUNDWATER LEVELS SHOULD BE MAINTAINED AT LEAST TWO FEET BELOW BOTTOM OF EXCAVATION UNTIL FOUNDATION SLABS ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR EMPLOYING APPROPRIATE DEWATERING METHODS TO CONTROL SEEPAGE INTO THE EXCAVATION. SEE GEOTECHNICAL REPORT AND SPECIFICATION SECTION 31 2319 FOR MORE INFORMATION ON DEWATERING.
 - IN AREAS TO ACCEPT FILL, THE TOP 12 INCHES OF THE GROUND SURFACE SHALL BE SCARIFIED AND COMPACTED TO ELIMINATE A PLANE OF WEAKNESS ALONG THE CONTACT SURFACE. EACH LIFT PLACED ABOVE THE FOUNDATION LEVEL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE SOIL'S STANDARD PROCTOR DENSITY (ASTM D698). THE MOISTURE CONTENT OF THE COHESIVE SOILS SHOULD BE MAINTAINED WITHIN A RANGE OF 0 PERCENT BELOW TO 4 PERCENT ABOVE THE MATERIALS STANDARD PROCTOR OPTIMUM MOISTURE CONTENT.
 - GENERAL FILL MATERIAL TO COMPLY WITH WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS AND SHALL BE FREE OF FOREIGN SUBSTANCE, DEBRIS, LARGE STONES, ROCKS, ROOTS, ORGANIC OR FROZEN MATERIAL, EXPANSIVE MATERIAL AND OTHER DELETERIOUS MATERIALS. UNSUITABLE SOILS SHALL BE DISPOSED OF BY THE CONTRACTORS.
 - FILL SHALL NOT BE FROZEN AND SHALL NOT BE PLACED ON A FROZEN SURFACE. ALL COHESIVE SOILS USED AS FILL AT THIS SITE SHALL HAVE A MAXIMUM LIQUID LIMIT OF 45 AND A MAXIMUM PLASTICITY INDEX OF 20.
 - ENSURE THAT PREVIOUSLY COMPACTED LIFTS ARE SCARIFIED 2 INCHES DEEP PRIOR TO COMPACTING THE NEXT LIFT.
 - REMOVE, STOCKPILE, AND REPLACE NATIVE MATERIAL 8 INCHES (TOP SOIL) BELOW EXISTING SURFACE FOR ALL AREAS DISTURBED (NOT SURFACED WITH GRAVEL, RIPRAP, OR OTHER DESIGNATED MATERIALS) WITHIN THE LIMITS OF CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR TOPSOIL OR MATERIAL THAT THE CONTRACTOR NEEDS TO IMPORT FROM OFFSITE.
 - SITE GRADING SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND FOUNDATIONS UNLESS NOTED OTHERWISE.

90% CONSTRUCTION DOCUMENTS

DRAWN BY: ACH JOB DATE: 6/10/2024
 APPROVED: JF JOB NUMBER: 201662.07
 CAD DATE: 6/21/2024
 CAD FILE: J:\2020\201662.07\CAD\Dwgs\C\Lift_Station\Grading_Plan

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NO.	DATE	BY	REVISION DESCRIPTION

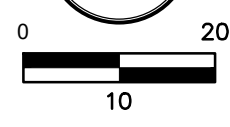
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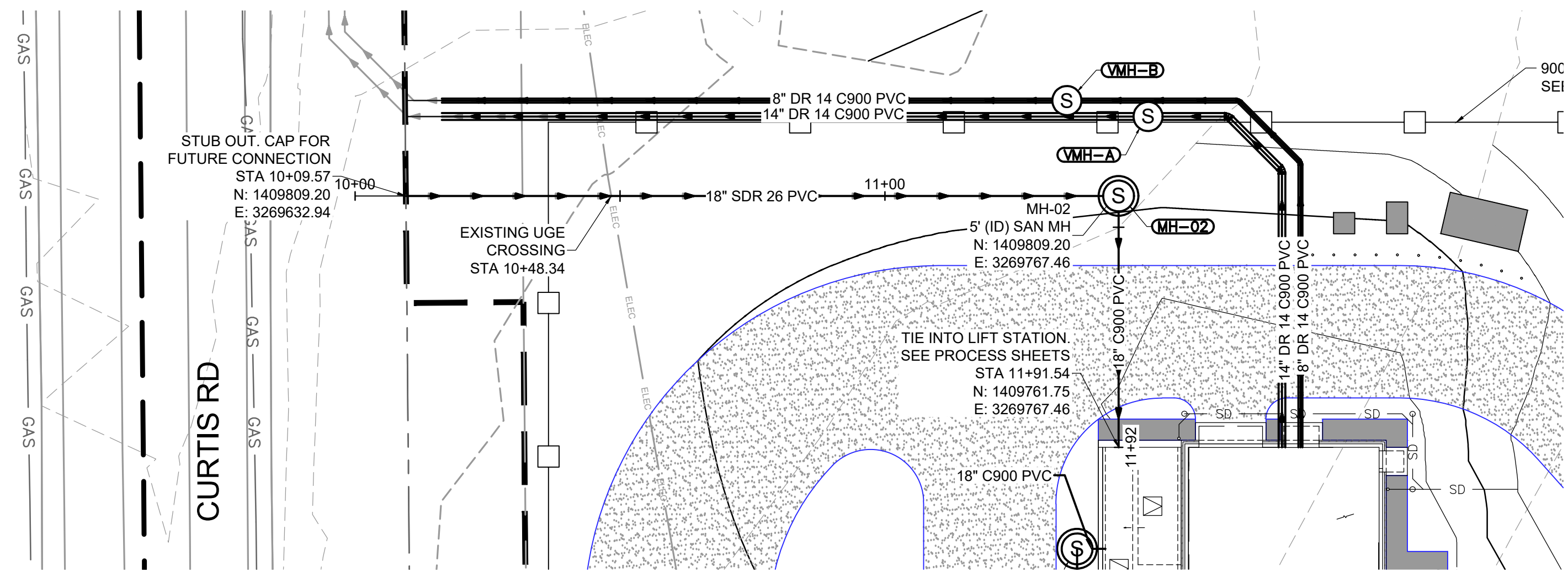
CIVIL
 SITE GRADING PLAN

SHEET
C102

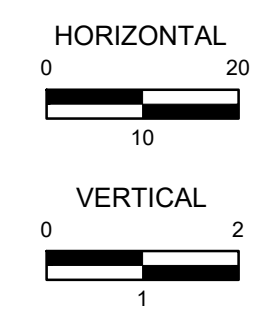
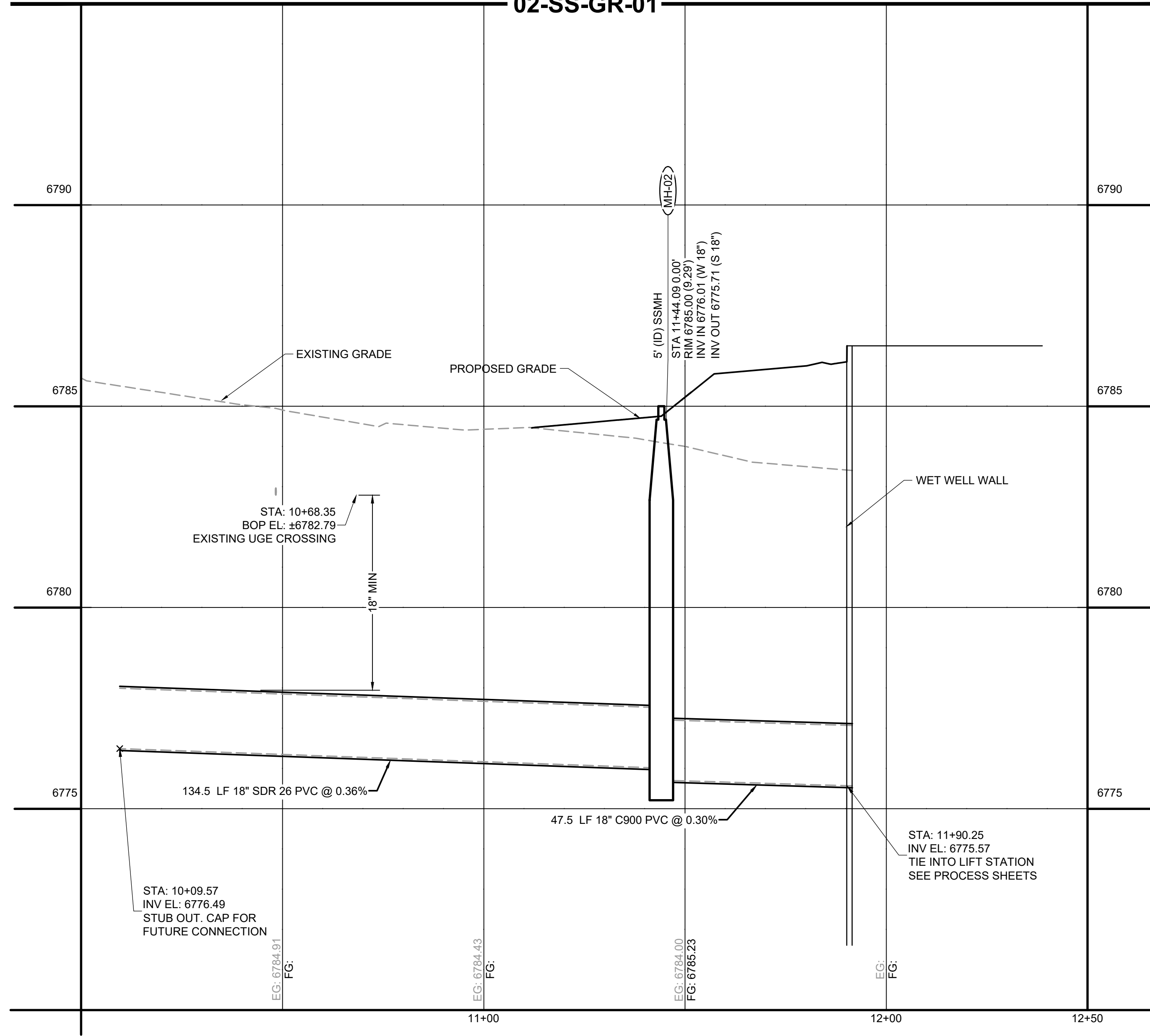


GENERAL NOTES:

1. SEE G.002 FOR WOODMEN HILLS WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.



02-SS-GR-01



90% CONSTRUCTION DOCUMENTS

HR GREEN Xrefs: XV-Row; XV-Util; xgl-1-dh01-Ls; XC-Lift-Station; XC-Electrical; XC-Driveway; XC-Util; XC-Dagn; XC-Initial-EC; XV-Dagn; Legend; Erosion_Control_Key; 01-DC-San-Fm; XV-Fema; Plug Valve MH

DRAWN BY: BDB JOB DATE: 6/19/2024
 APPROVED: JPF JOB NUMBER: 201662.07
 CAD DATE: 6/21/2024
 CAD FILE: J:\2020\201662.07\CAD\Drawings\Civil_Station\LS_Civil

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 0 1"
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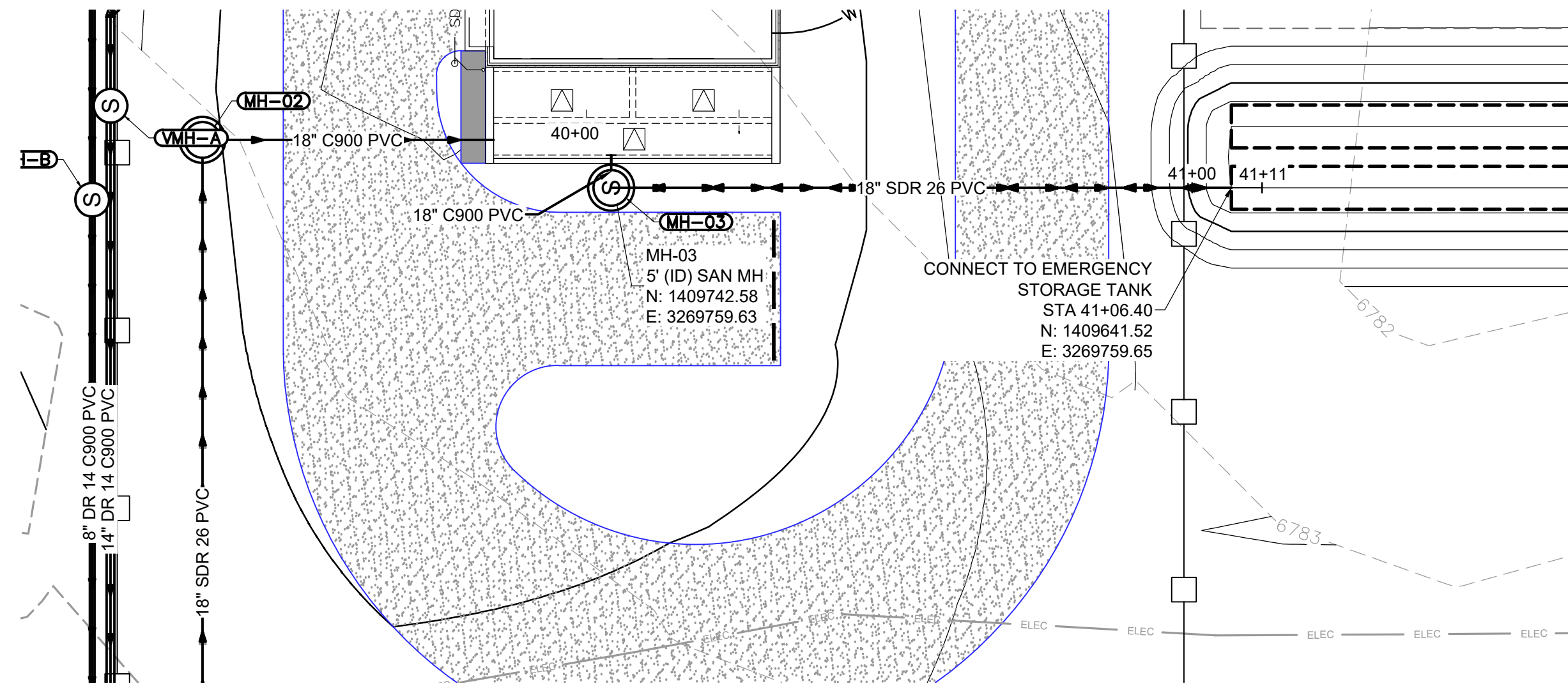
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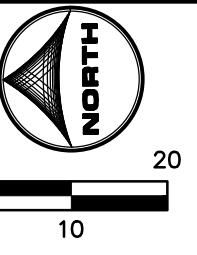
CIVIL
 GRAVITY LINE PLAN AND PROFILE

SHEET
 C105

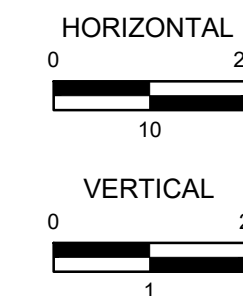
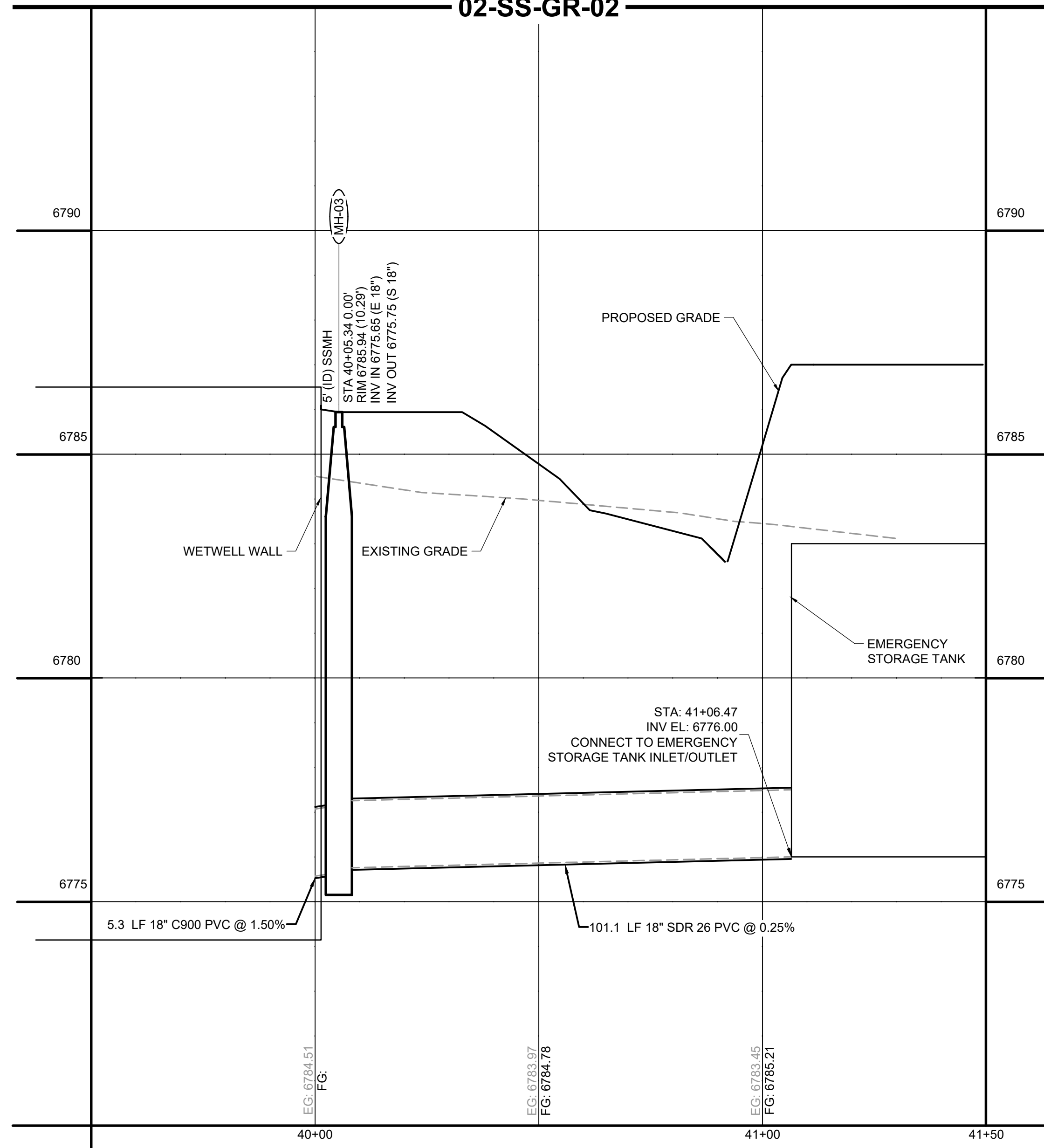
HR GREEN Xrns: XV-Row; XV-Util; xqt-1-dh01-Ls; XC-Lift-Station; XC-Electrical; XC-Driveway; XC-Utility; XC-Dagn; XC-Initial-EC; XV-Dagn; Legend; Erosion_Control_Key; 01-DC-San-Fm; XV-Fema; Plug Valve MH



- GENERAL NOTES:**
- SEE G.002 FOR WOODMEN HILLS WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
 - SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.



02-SS-GR-02



90% CONSTRUCTION DOCUMENTS

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NO.	DATE	BY	REVISION DESCRIPTION



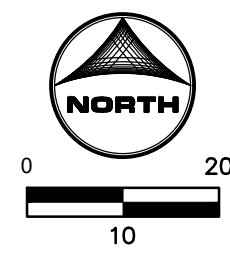
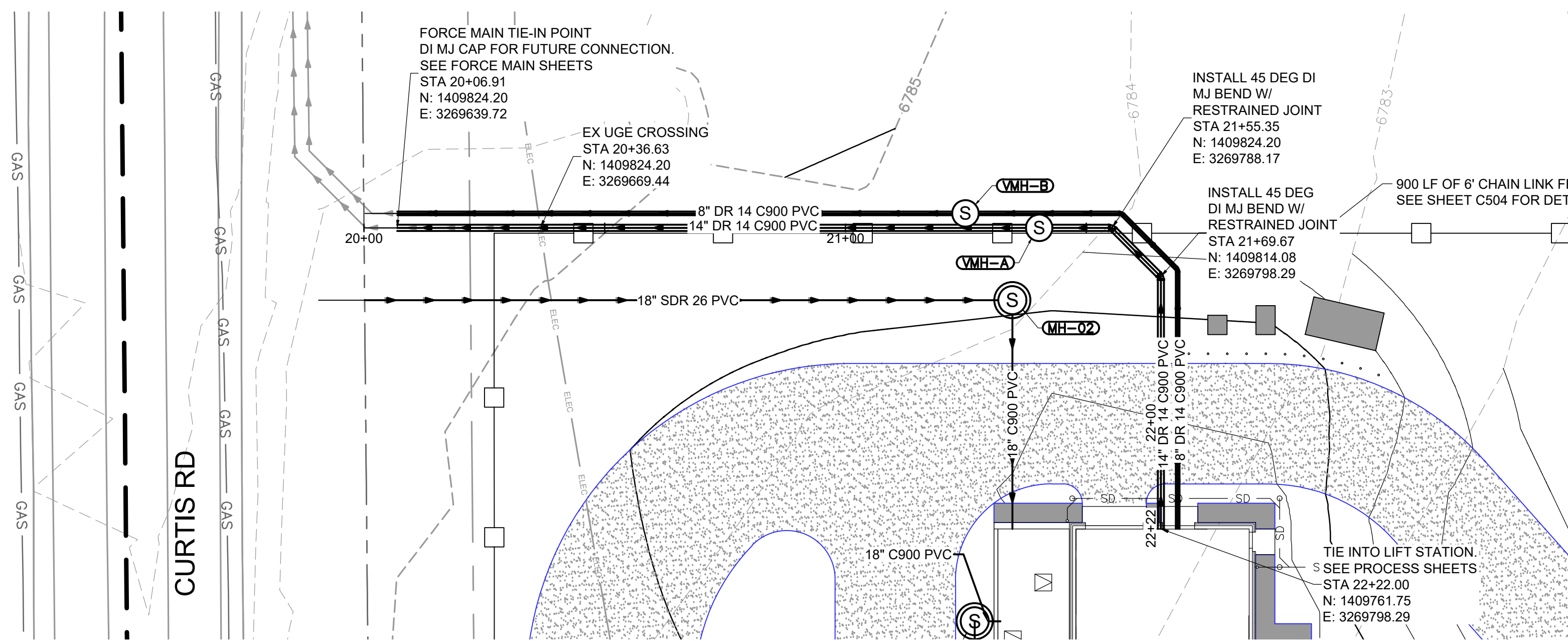
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 EL PASO COUNTY
 PEYTON, CO



CIVIL
 EMERGENCY STORAGE PLAN AND PROFILES

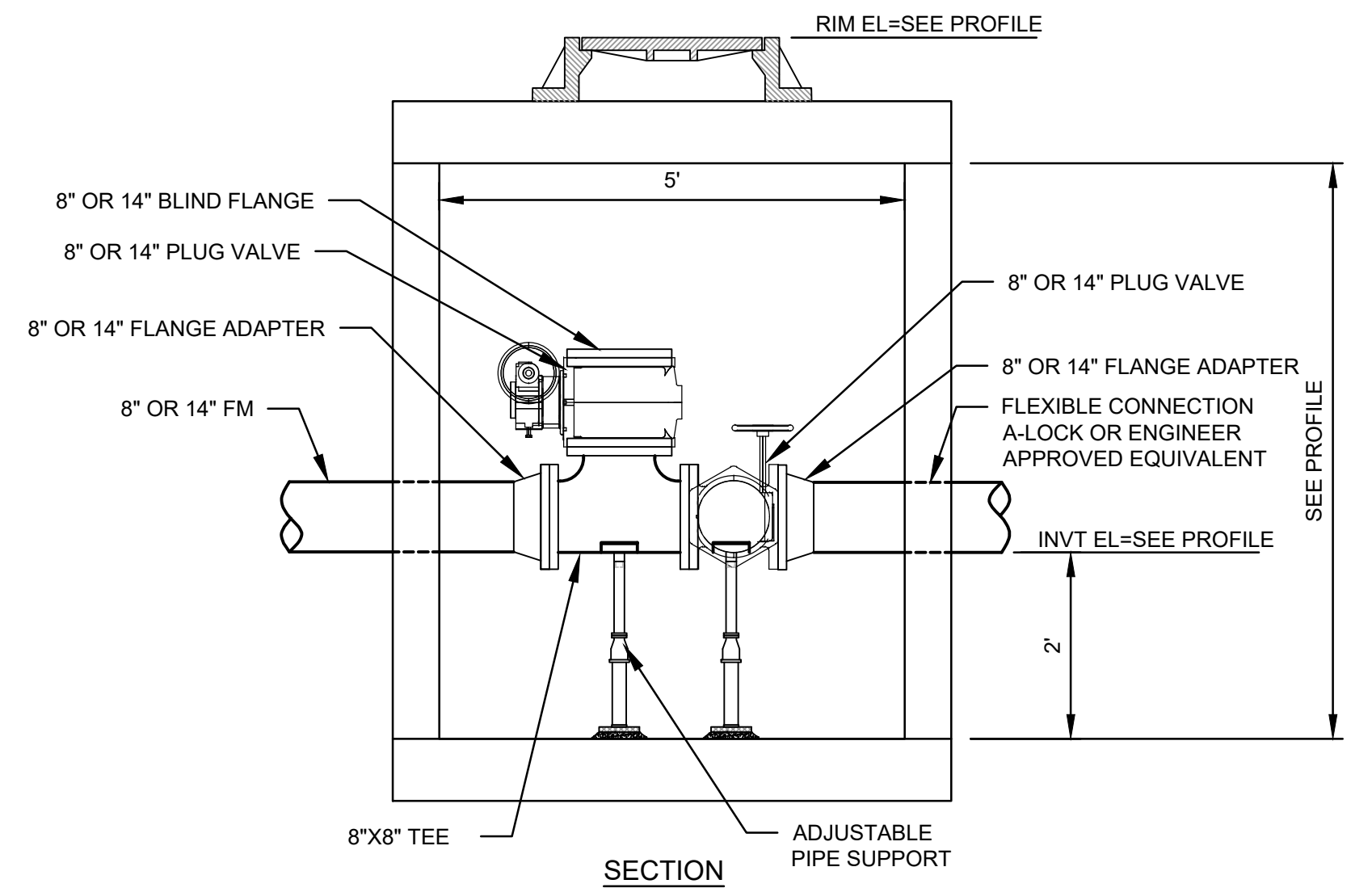
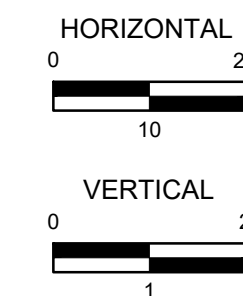
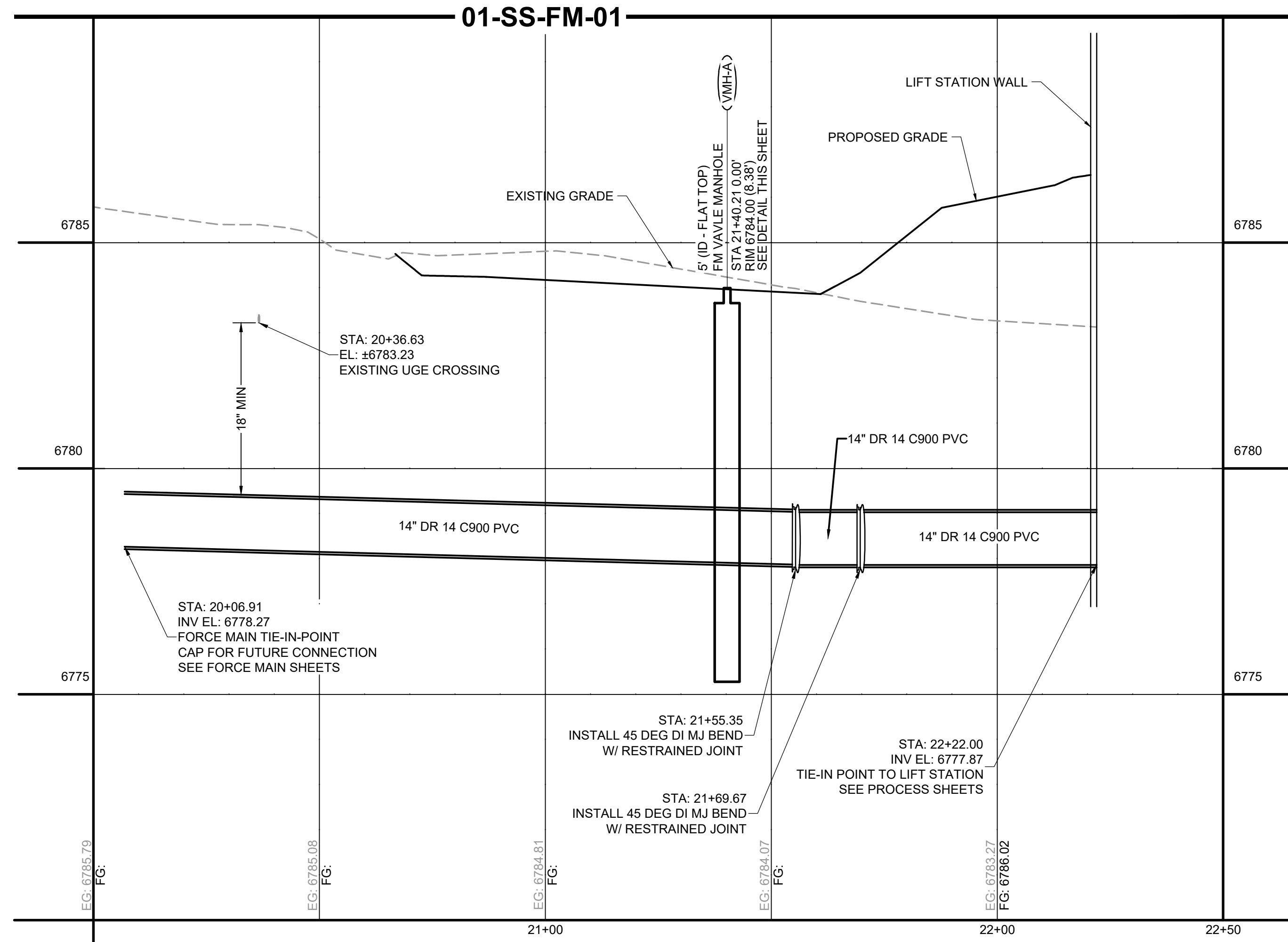
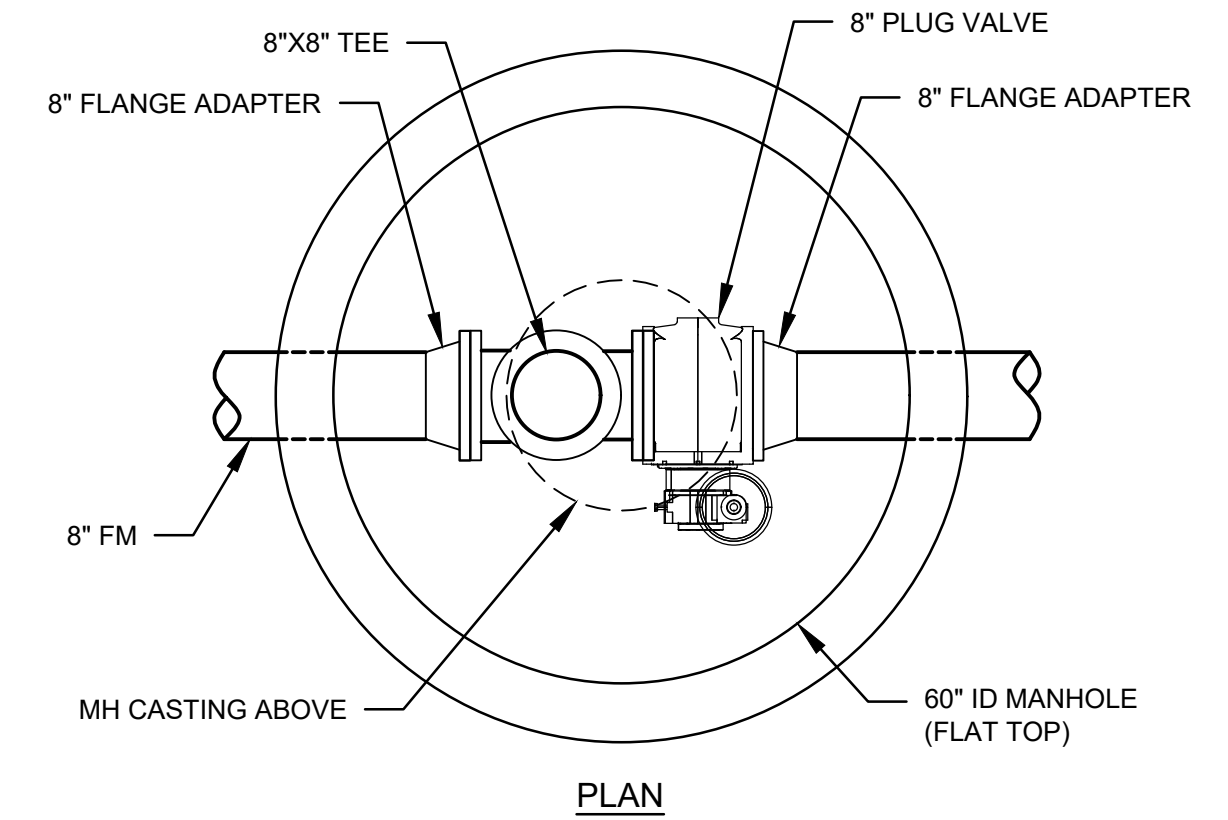
SHEET
C106

HR GREEN Xrns: XV-Row; XV-Util; xqt-1-dh01-Ls; XC-Lift-Station; XC-Electrical; XC-Driveway; XC-Util; XC-Dgn; XC-Initial-EC; XV-Dgn; Legend; Erosion_Control_Key; 01-DC-San-Fm; XV-Fema; Plug Valve MH



GENERAL NOTES:

- SEE G.002 FOR WOODMEN HILLS WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
- SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.



**TYPICAL FORCE MAIN
PLUG VALVE MANHOLE
(VMH-A & VMH-B)
NTS**

90% CONSTRUCTION DOCUMENTS

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APPROVED: JPF	JOB NUMBER: 201662.07	0 1"
CAD DATE: 6/21/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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NO.	DATE	BY	REVISION DESCRIPTION

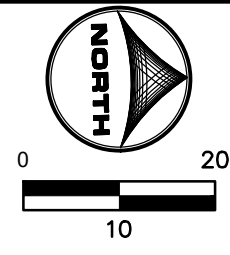


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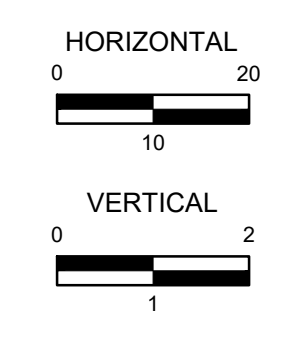
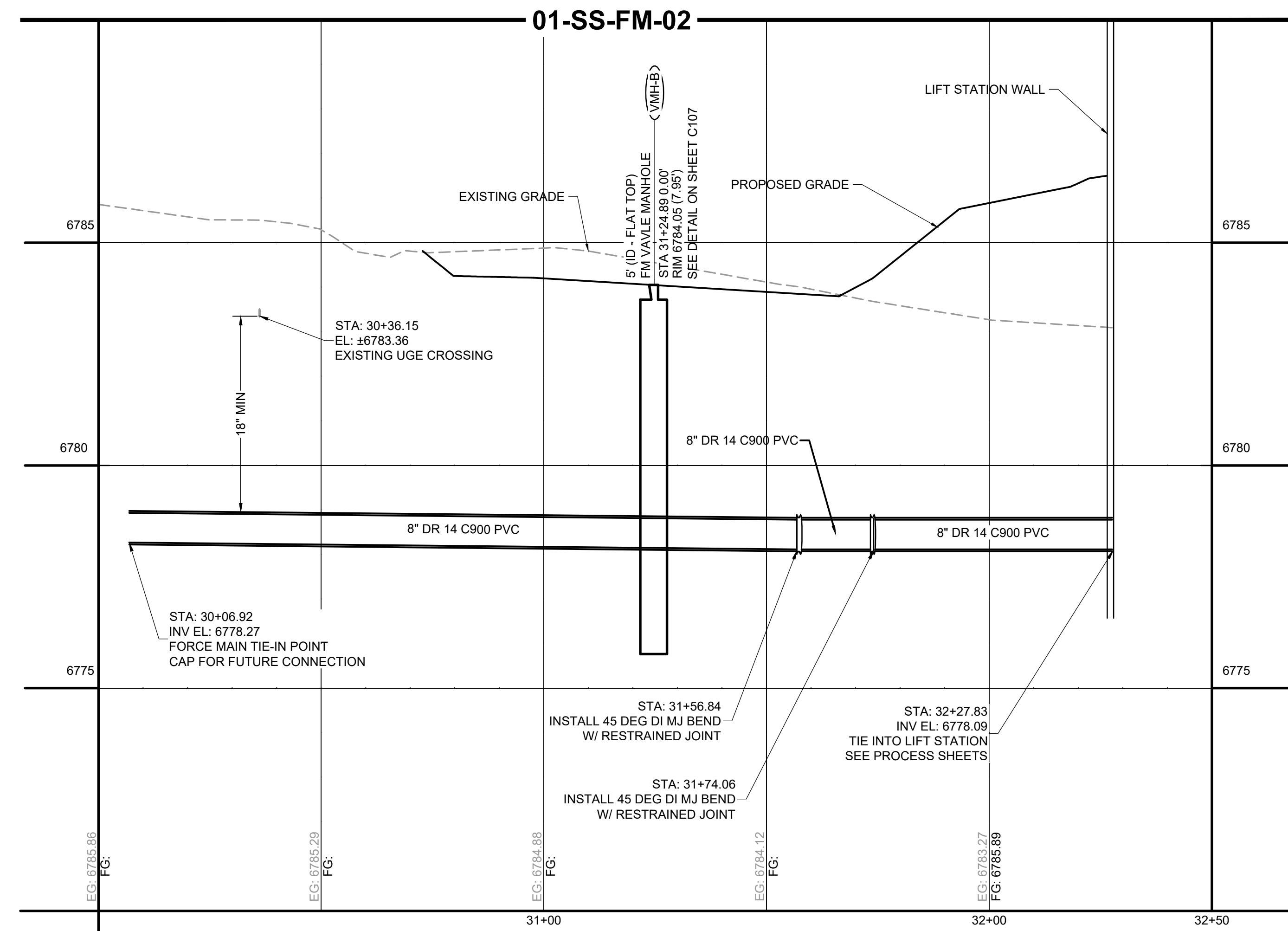
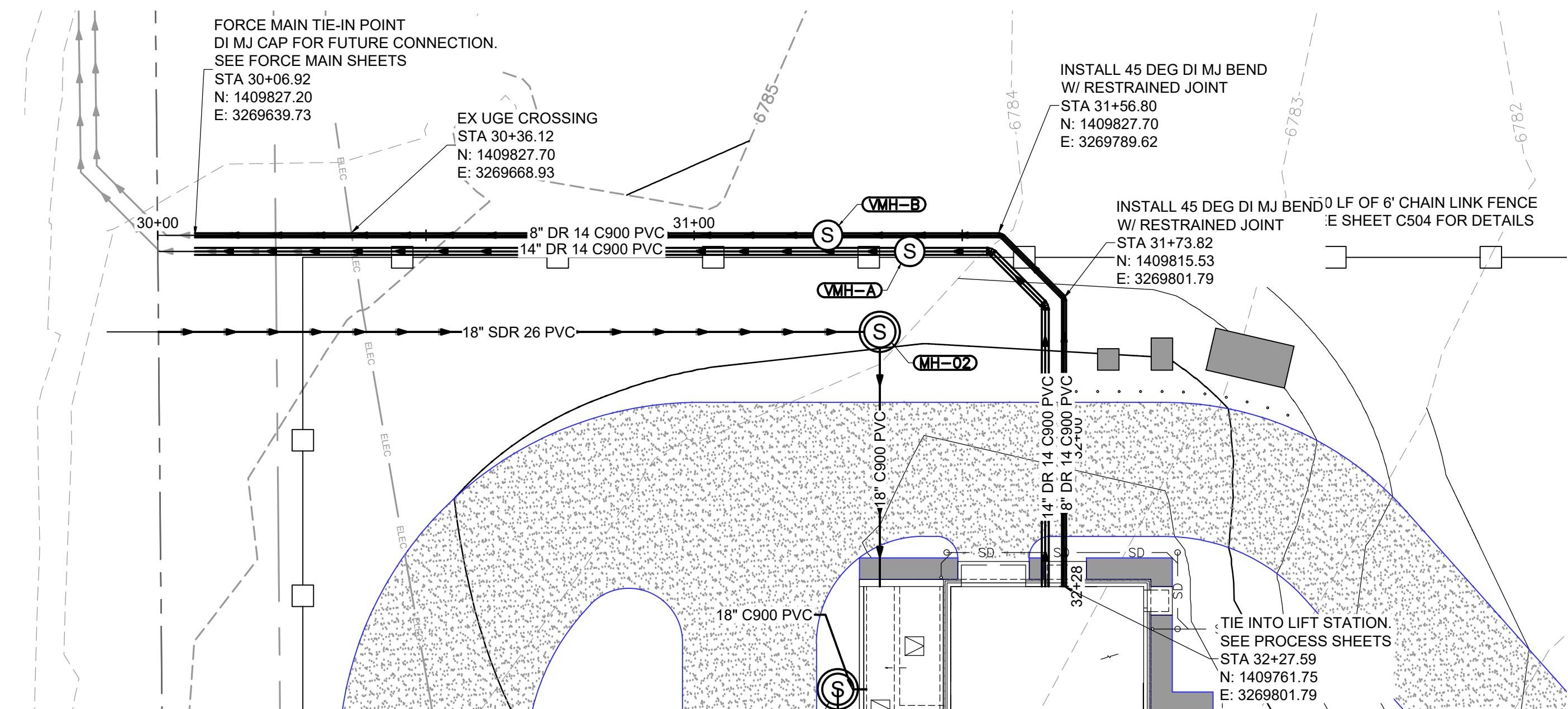


CIVIL
 14-INCH FORCE MAIN PLAN AND PROFILE

SHEET
C107



- GENERAL NOTES:
- SEE G.002 FOR WOODMENHILLS WATER AND WASTEWATER SYSTEM STANDARDS AND INSTALLATION NOTES.
 - SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL WATER AND WASTEWATER SPECIFICATIONS.



90% CONSTRUCTION DOCUMENTS

HR GREEN Xrefs: XV-Row; XV-Util; xgt-1-dh01-Ls; XC-Lift-Station; XC-Electrical; XC-Driveway; XC-Util; XC-Dagn; XC-Initial=EC; XV-Dagn; Legend; Erosion_Control_Key; 01-DC-San-Fm; XV-Fema; Plug Valve MH

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APPROVED: JPF	JOB NUMBER: 201662.07	0 1"
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CAD FILE: J:\2020\201662.07\CAD\Drawings\Civil_Lift_Station\Ls_Civil		

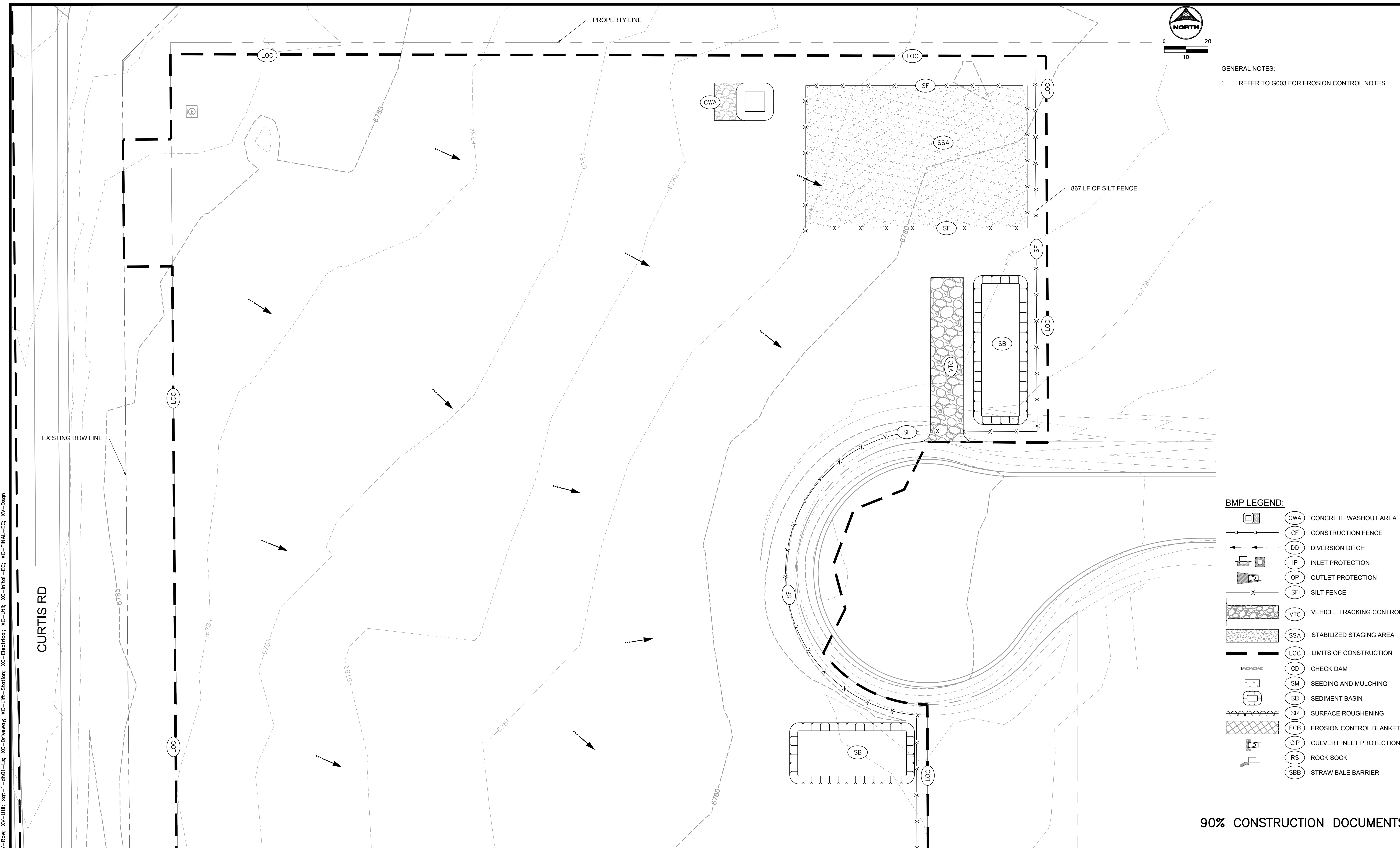
NO.	DATE	BY	REVISION DESCRIPTION

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CIVIL
 8-INCH FORCE MAIN PLAN AND PROFILE

SHEET
 C108



GENERAL NOTES:
 1. REFER TO G003 FOR EROSION CONTROL NOTES.

BMP LEGEND:

	(CWA)	CONCRETE WASHOUT AREA
	(CF)	CONSTRUCTION FENCE
	(DD)	DIVERSION DITCH
	(IP)	INLET PROTECTION
	(OP)	OUTLET PROTECTION
	(SF)	SILT FENCE
	(VTC)	VEHICLE TRACKING CONTROL
	(SSA)	STABILIZED STAGING AREA
	(LOC)	LIMITS OF CONSTRUCTION
	(CD)	CHECK DAM
	(SM)	SEEDING AND MULCHING
	(SB)	SEDIMENT BASIN
	(SR)	SURFACE ROUGHENING
	(ECB)	EROSION CONTROL BLANKET
	(CIP)	CULVERT INLET PROTECTION
	(RS)	ROCK SOCK
	(SBB)	STRAW BALE BARRIER

90% CONSTRUCTION DOCUMENTS

DRAWN BY: ACH JOB DATE: 6/12/2024
 APPROVED: JPF JOB NUMBER: 201662.07
 CAD DATE: 6/21/2024
 CAD FILE: J:\2020\201662.07\CAD\Drawings\CILift_Station\LS_Erosion-Control

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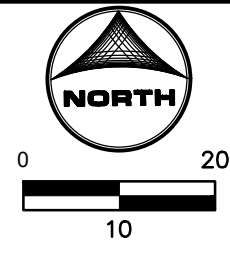


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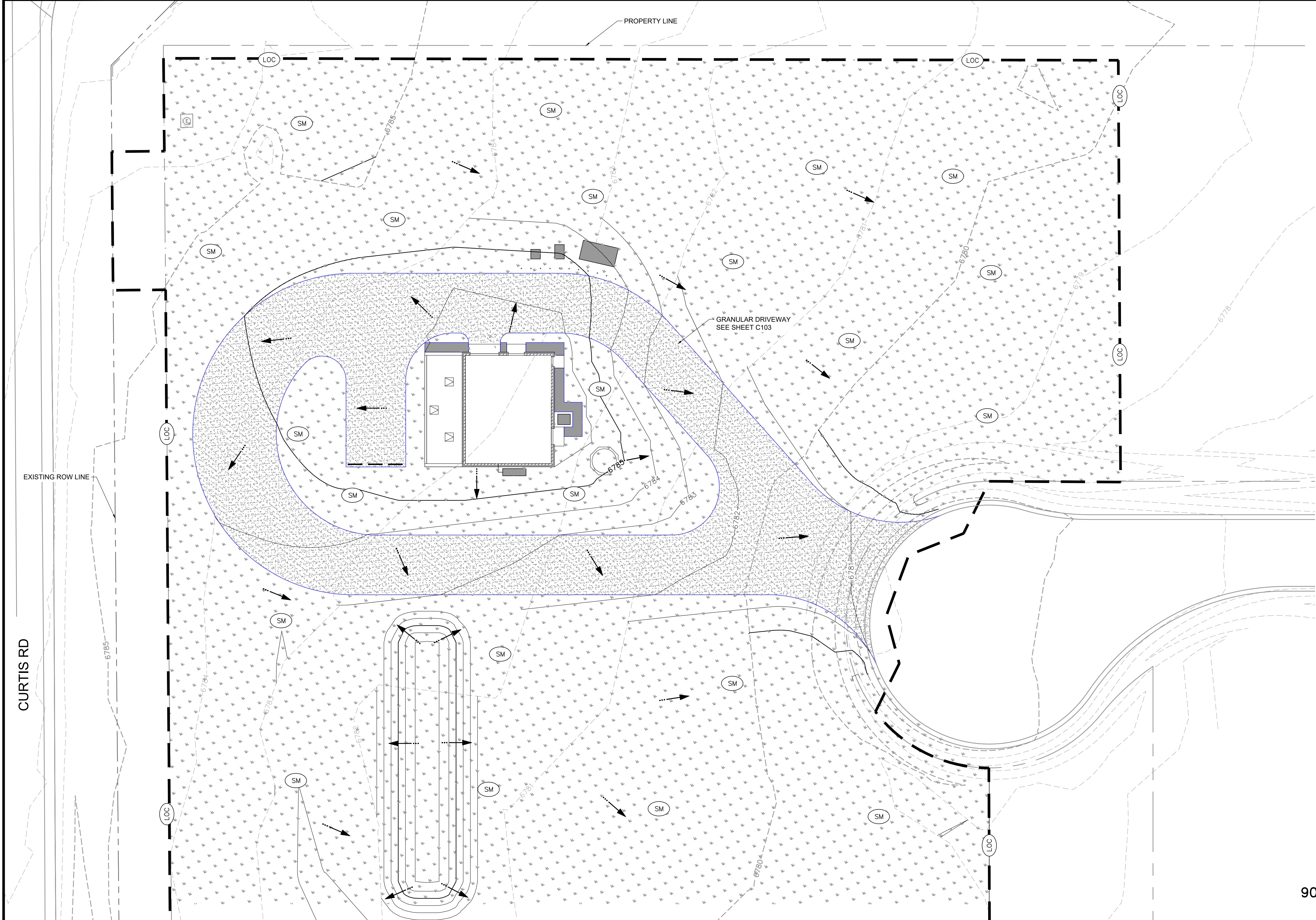
CIVIL
 INITIAL-INTERIM EROSION CONTROL

SHEET
C110

HR GREEN Xrefs: XV-Row; XV-Util; xgt-1-dh01-Ls; XC-Driveway; XC-Lift-Station; XC-Electrical; XC-Util; XC-Initial-EC; XC-FINAL-EC; XV-Dagn



- GENERAL NOTES:**
- SEE LANDSCAPING PLAN ON C109 FOR SEEDING REQUIREMENTS.
 - SEE SHEET G003 FOR EROSION CONTROL NOTES.



BMP LEGEND:

	(CWA) CONCRETE WASHOUT AREA
	(CF) CONSTRUCTION FENCE
	(DD) DIVERSION DITCH
	(IP) INLET PROTECTION
	(OP) OUTLET PROTECTION
	(SF) SILT FENCE
	(VTC) VEHICLE TRACKING CONTROL
	(SSA) STABILIZED STAGING AREA
	(LOC) LIMITS OF CONSTRUCTION
	(CD) CHECK DAM
	(SM) SEEDING AND MULCHING
	(SB) SEDIMENT BASIN
	(SR) SURFACE ROUGHENING
	(ECB) EROSION CONTROL BLANKET
	(CIP) CULVERT INLET PROTECTION
	(RS) ROCK SOCK
	(SBB) STRAW BALE BARRIER

90% CONSTRUCTION DOCUMENTS

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 PEYTON, CO



CIVIL
 FINAL EROSION CONTROL

SHEET
 C111

HR GREEN Xrefs: XV-Row; XV-Util; xgl-1-dh01-Ls; XC-Driveway; XC-Lift-Station; XC-Electrical; XC-Util; XC-Initial-EC; XC-FINAL-EC; XV-Dagn

CURTIS RD