

SHEET INDEX

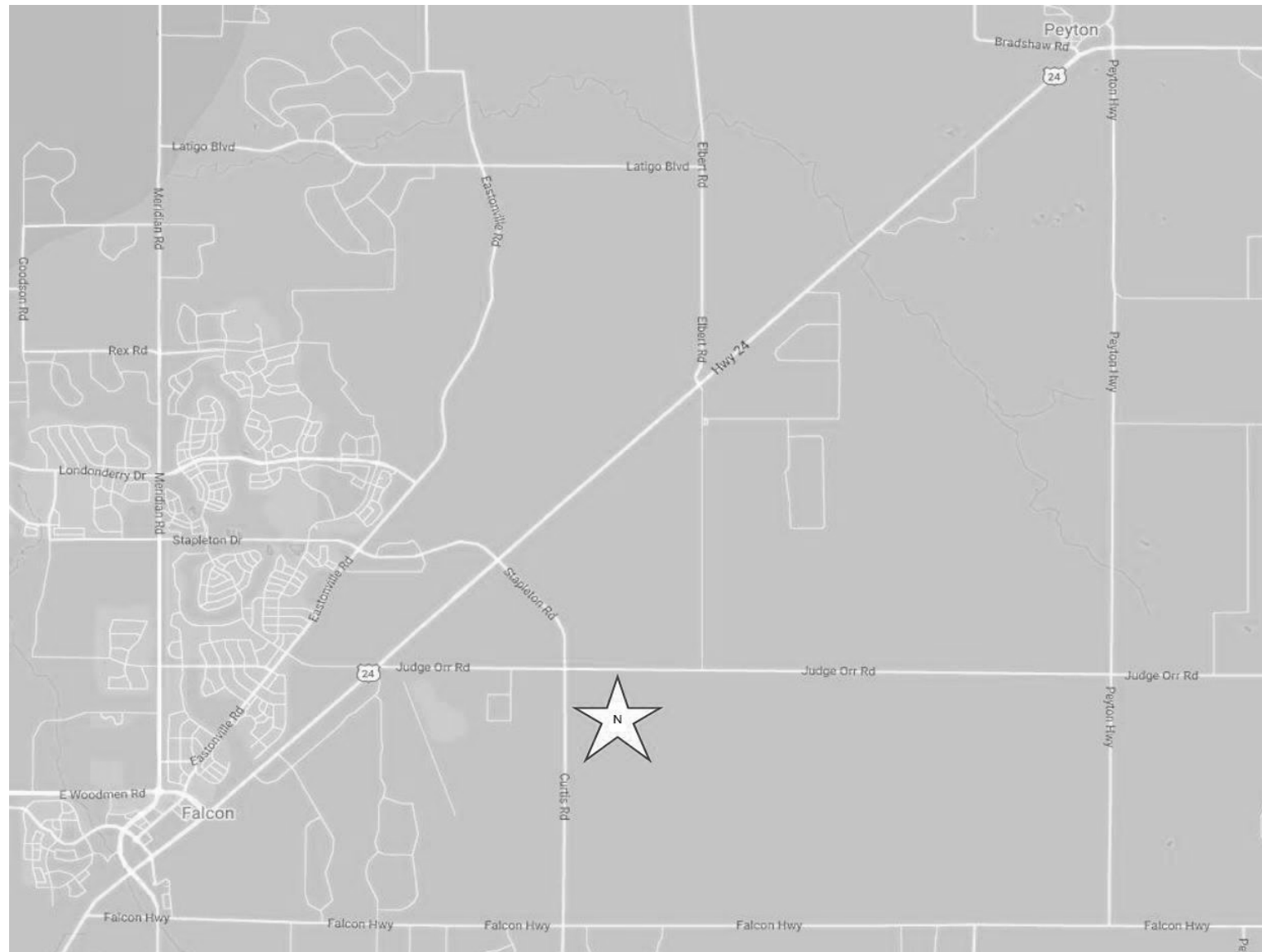
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S506	TYPICAL MASONRY DETAILS	IC501	P&ID - PROCESS
S507	TYPICAL MASONRY DETAILS	IC502	NETWORK CONNECTION DIAGRAM
S508	FRAMING DETAILS	IC600	CONTROL CIRCUIT SCHEDULES
S509	ROOF FRAMING DETAILS		

TOTAL SHEETS: 79

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



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

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

<p>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.</p> <p>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: - _____ - _____ - _____</p>
<p>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.</p> <p>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: - _____ - _____ - _____</p>
<p>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.</p> <p>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: - _____ - _____ - _____</p>

<p>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.</p> <p>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: - _____ - _____ - _____</p>
<p>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.</p> <p>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: - _____ - _____ - _____</p>
<p>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.</p> <p>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: - _____ - _____ - _____</p>

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CAD FILE: C:\Users\kbgander\Documents\201662_07_MEP_v21_kbarg.rvt		

NO.	DATE	BY	REVISION DESCRIPTION

<p>HR GREEN - COLORADO SPRINGS 1975 RESEARCH PARKWAY SUITE 230 COLORADO SPRINGS, CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044</p>

<p>D.R. HORTON - GRANDVIEW RESERVE SANITARY SEWER LIFT STATION EL PASO COUNTY PEYTON, COLORADO</p>
--



GENERAL
COVER SHEET

SHEET
G000

PCD #

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

LEGEND

	EXISTING	PROPOSED		
MATCH LINE				
PHASE LINE				
SECTION LINE				
PROPERTY LINE				
EASEMENT LINE				
RIGHT OF WAY				
CENTERLINE				
CHAIN LINK FENCE				
WOODEN FENCE				
ROD IRON FENCE				
GUARDRAIL				
CABLE TV				
U.G. ELECTRIC				
OVERHEAD ELECTRIC				
FIBER OPTIC				
GAS MAIN				
SANITARY SEWER				
STORM DRAIN				
TELEPHONE				
WATER MAIN				
SWALE				
TRAIL				
CURB & GUTTER				
DRAINAGE BASIN				
INDEX CONTOUR				
INTER. CONTOUR				
100-YR FLOODPLAIN				
FLOODWAY				
EDGE OF WETLANDS				
DRAINAGE				
	EXISTING	PROPOSED		
DRAINAGE BASIN				
BASIN TAG				
DESIGN POINT				
ASPHALT				
GRAVEL				
100 YR FLOOD				
PENDING 100 YR FLOOD				
WETLANDS				

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE		
STORM INLET		
FLARED END SECTION		
RIPRAP		
SANITARY SEWER		
CLEAN OUT		
MANHOLE		
PLUG		
WATER		
FIRE HYDRANT		
FIRE DEPT. CONNECTION		
GATE VALVE		
MANHOLE		
METER		
TEE		
REDUCER		

DRY UTILITIES		MISCELLANEOUS
ELECTRIC METER		SIGN
ELECTRIC PEDESTAL		BOLLARD
ELECTRICAL CABINET		ACCESSIBLE PARKING
ELECTRIC VAULT		
FIBER OPTIC PULL BOX		
FIBER OPTIC MANHOLE		
FIBER OPTIC PEDESTAL		
FIBER OPTIC SIGN		
FIBER OPTIC VAULT		
GAS METER		
GAS SIGN		
GAS VAULT		
TELEPHONE CABINET		
TELEPHONE MANHOLE		
TELEPHONE SIGNAL/MAST		
TELEPHONE SIGN		
TELEPHONE PEDESTAL		
TRANSFORMER		
LIGHT POLE		
FIBER OPTIC VAULT		

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/DISTURBANCE
	(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

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NO.	DATE	BY	REVISION DESCRIPTION

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 SANITARY SEWER LIFT STATION
 DESIGN & PERMITTING SERVICES
 EL PASO COUNTY
 PEYTON, CO

America's Builder

CIVIL
 LEGENDS

SHEET
 C100

BASIS OF BEARING:

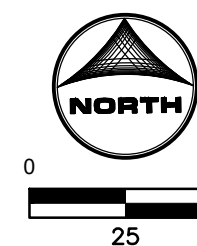
THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY 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

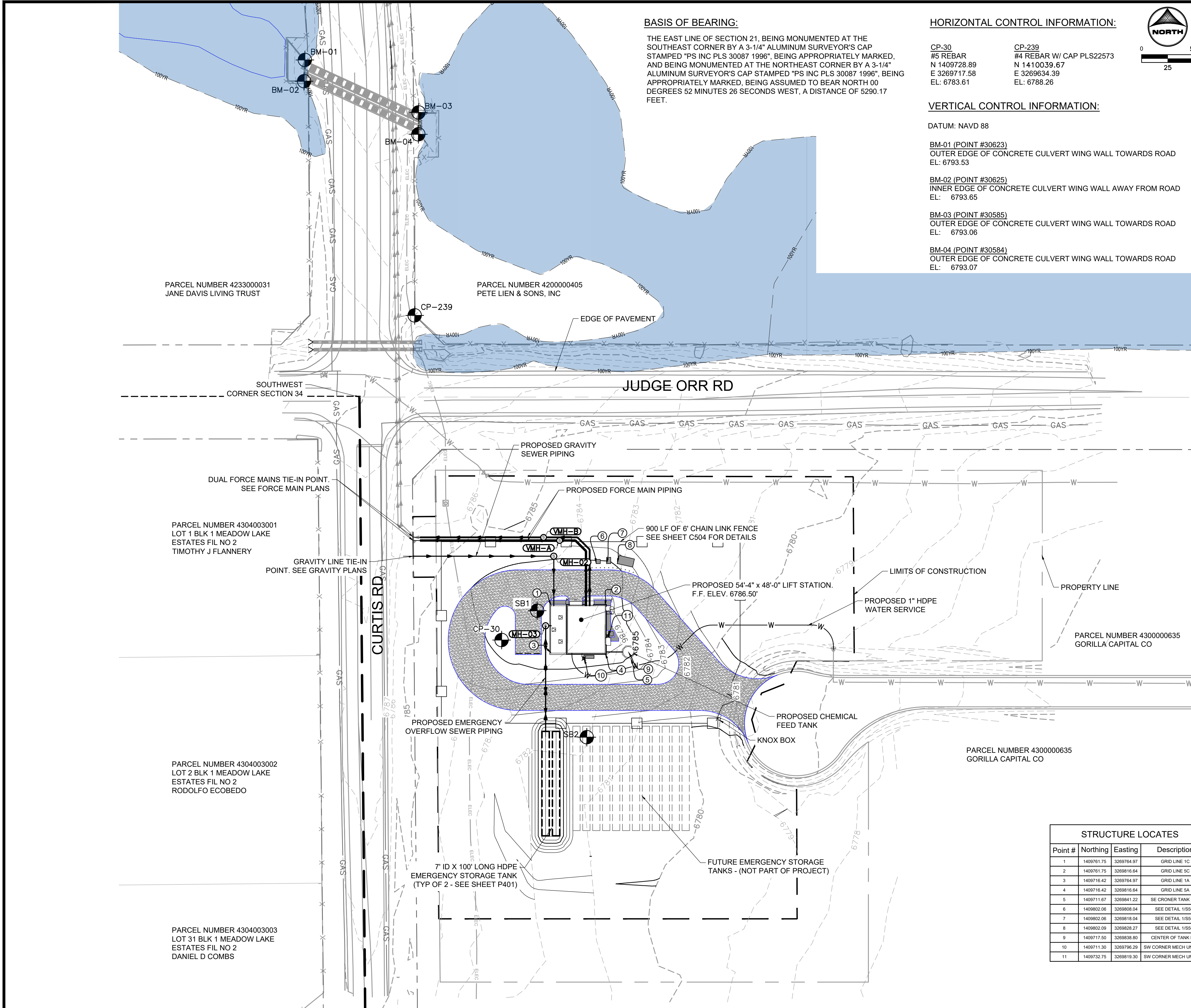
VERTICAL CONTROL INFORMATION:

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.



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	1409717.50	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

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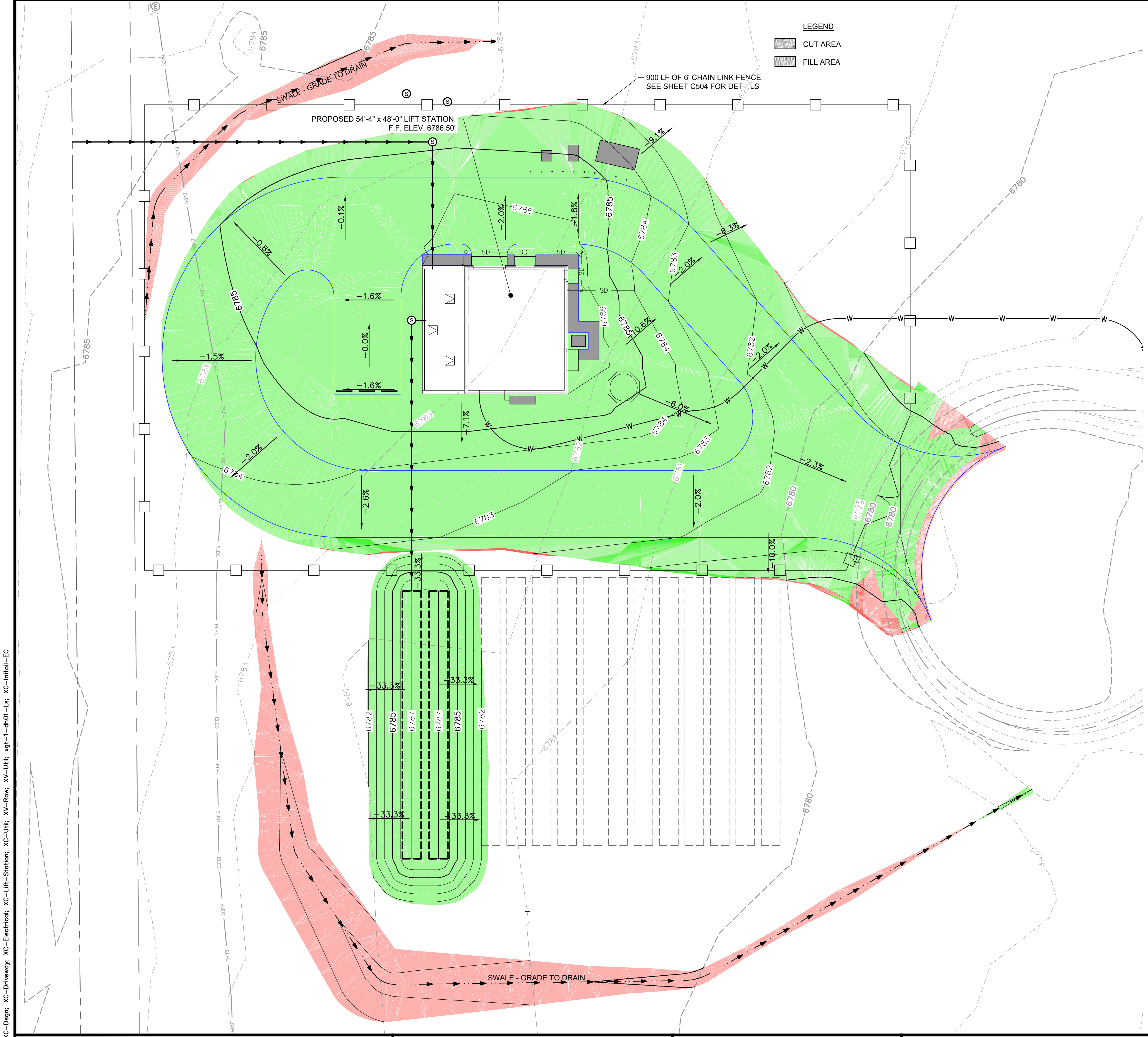
D.R. HORTON - GRANDVIEW RESERVE
 SANITARY SEWER LIFT STATION
 DESIGN & PERMITTING SERVICES
 EL PASO COUNTY
 PEYTON, CO

D-R HORTON
 America's Builder

CIVIL
 SITE PLAN

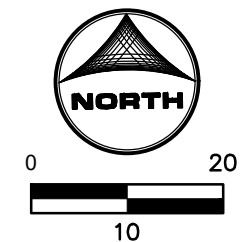
SHEET
 C101

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



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.)

1. REFER TO SHEET S.000 FOR ADDITIONAL GEOTECHNICAL REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH SPECIFICATION SECTION 31 5000 FOR SUPPORTS AND PROTECTION.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. ENSURE THAT PREVIOUSLY COMPACTED LIFTS ARE SCARIFIED 2 INCHES DEEP PRIOR TO COMPACTING THE NEXT LIFT.
9. 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.
10. SITE GRADING SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND FOUNDATIONS UNLESS NOTED OTHERWISE.

HR GREEN Xrefs: XC-Driveway, XC-Electrical, XC-Lift-Station, XC-Utit, XY-Rovr, XV-Utit, xgt-1-ph01-Ls, XC-Initial-EC

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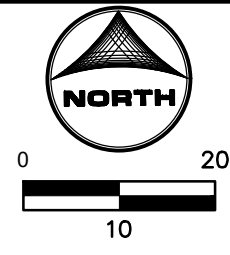
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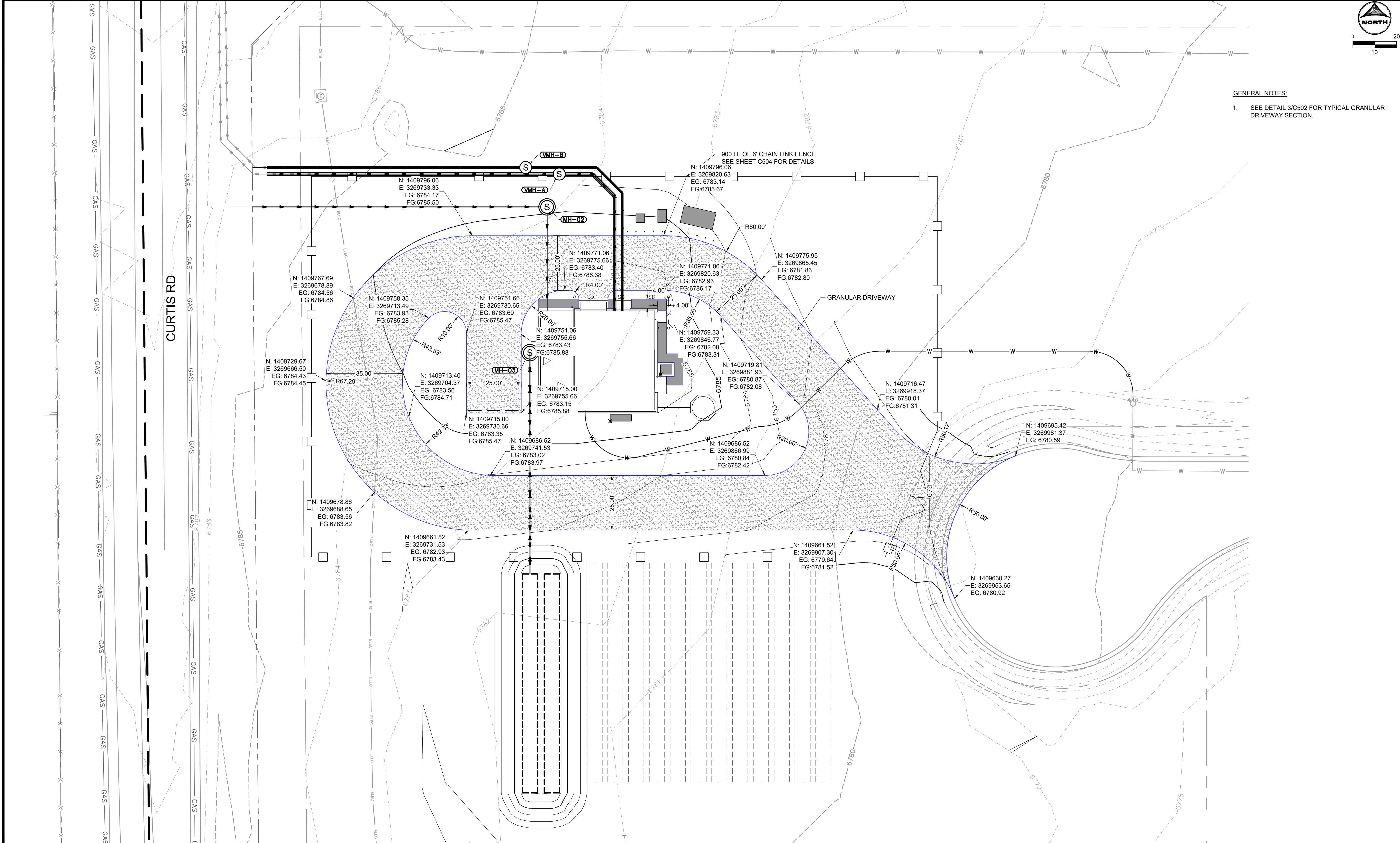


CIVIL
 SITE GRADING PLAN

SHEET
C102



GENERAL NOTES:
 1. SEE DETAIL 3/C502 FOR TYPICAL GRANULAR DRIVEWAY SECTION.



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

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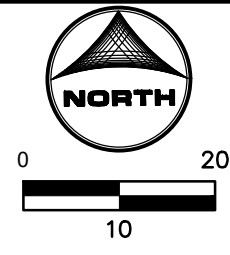
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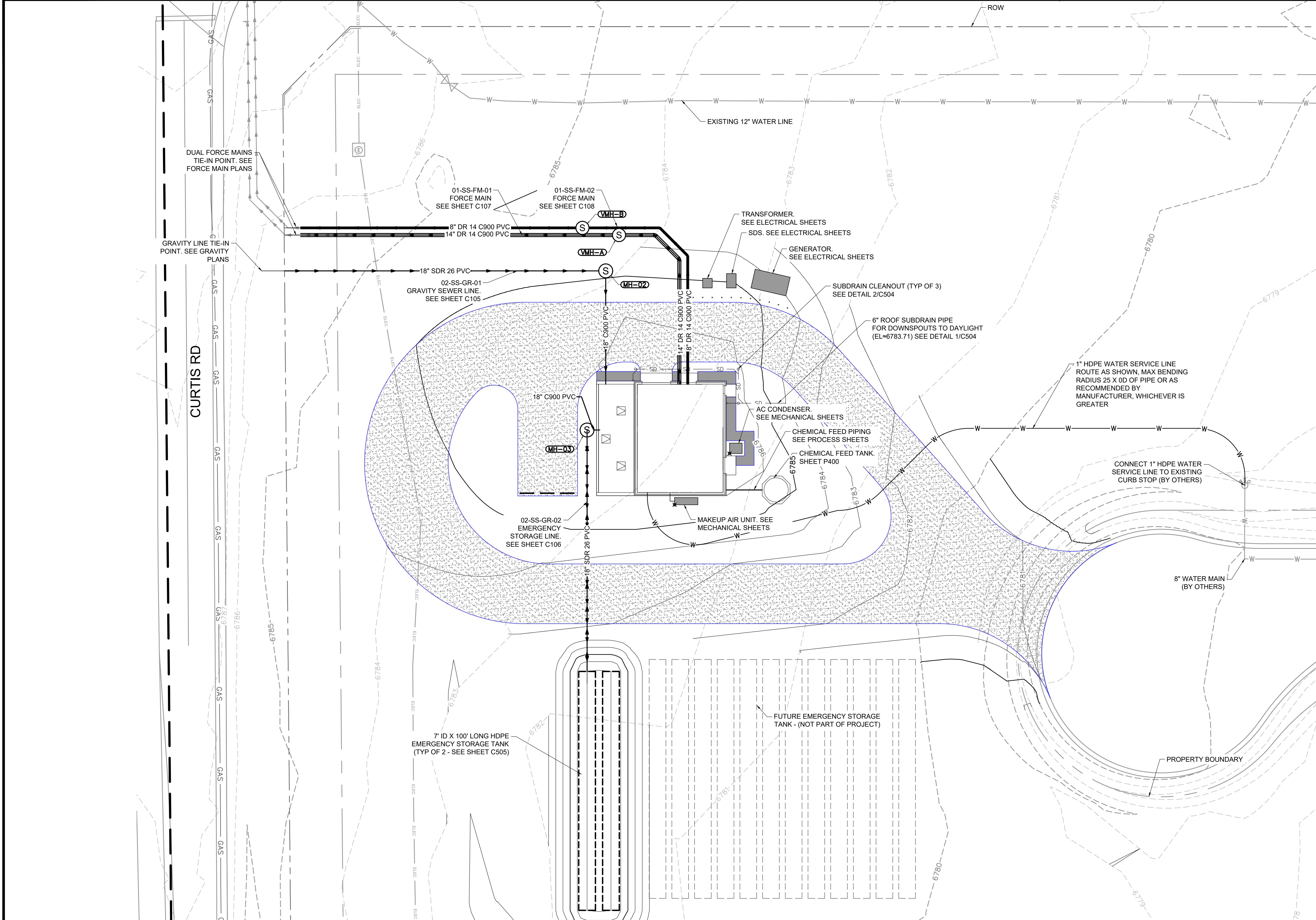
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CIVIL
 SITE DRIVEWAY PLAN

SHEET
 C103



- 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.



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

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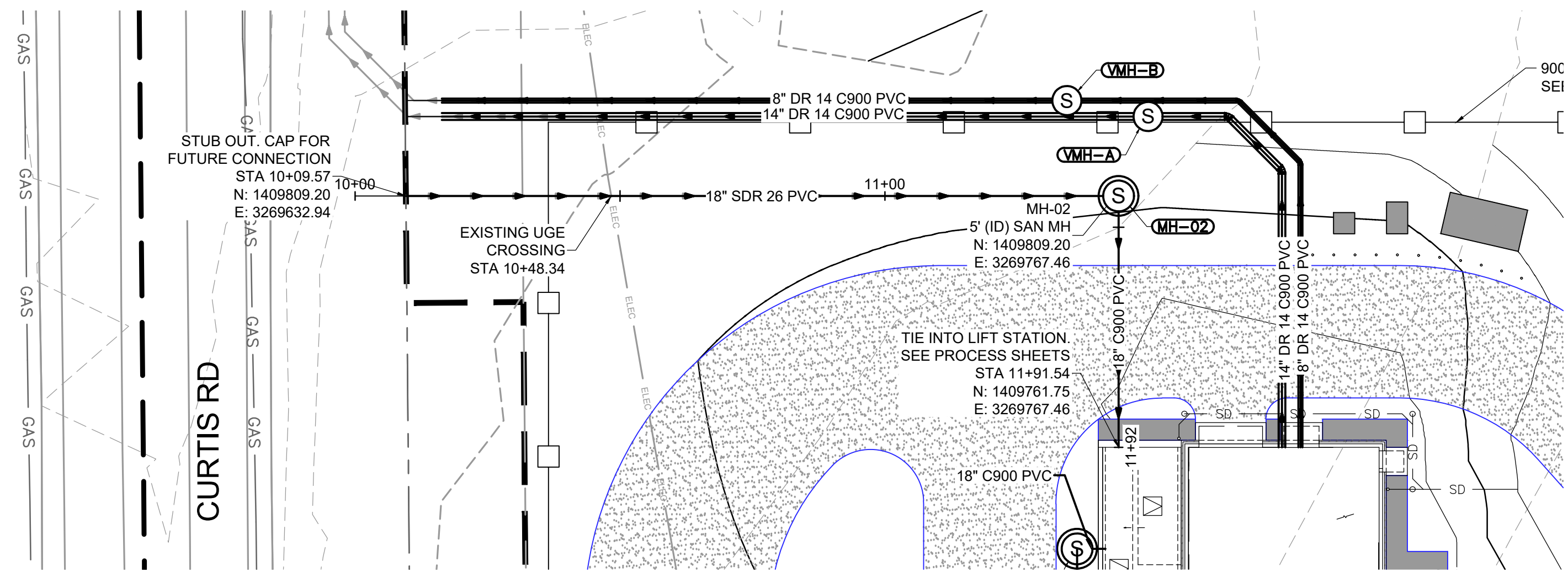
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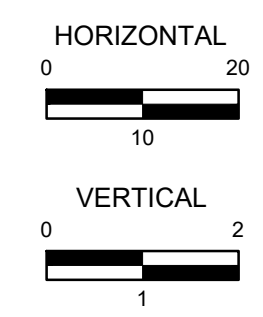
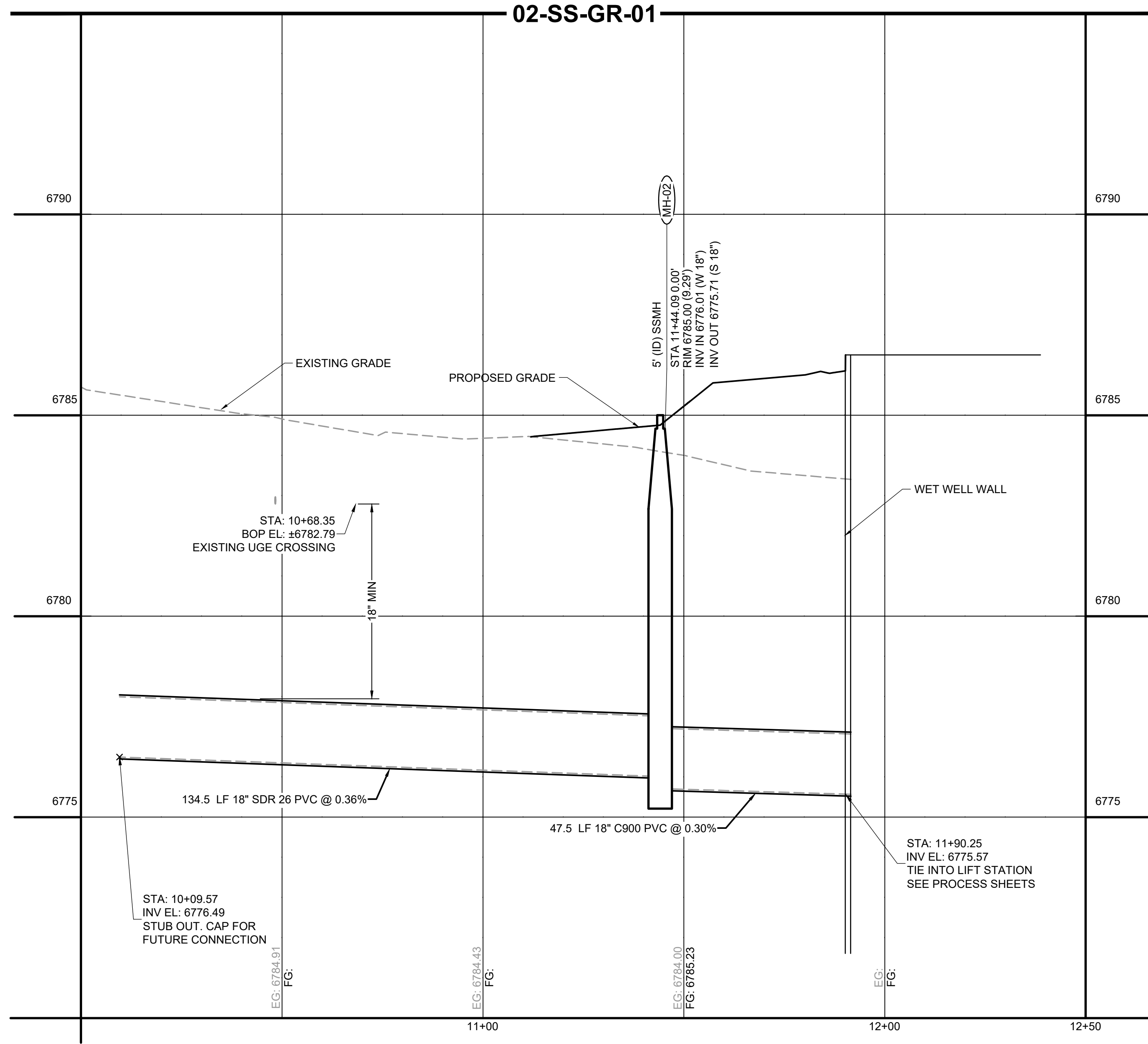
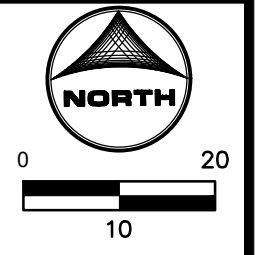
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CIVIL
 YARD PIPING PLAN

SHEET
C104



- 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.



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

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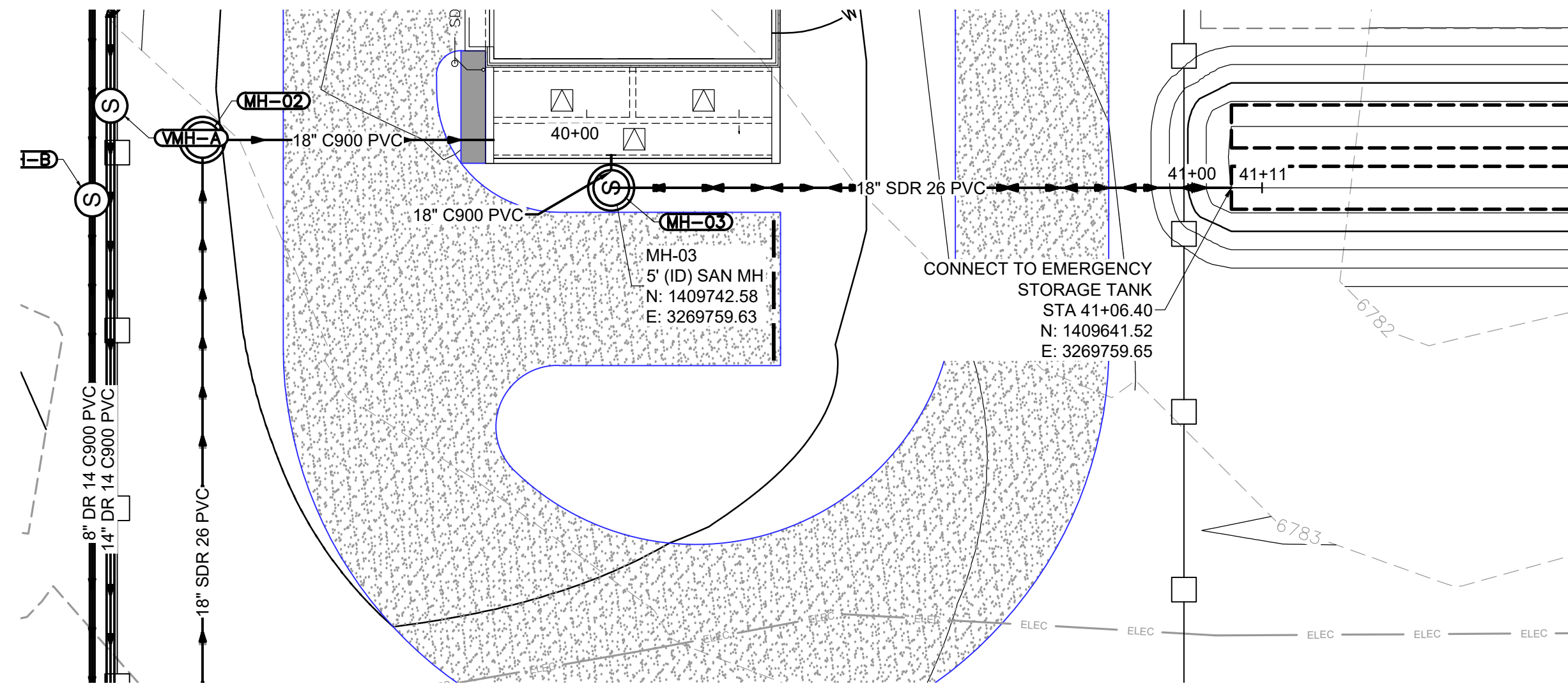
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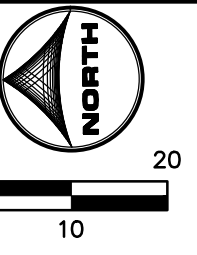
CIVIL
 GRAVITY LINE PLAN AND PROFILE

SHEET
C105

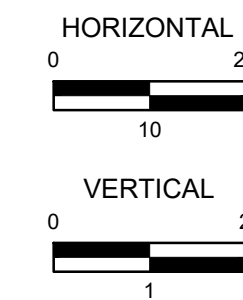
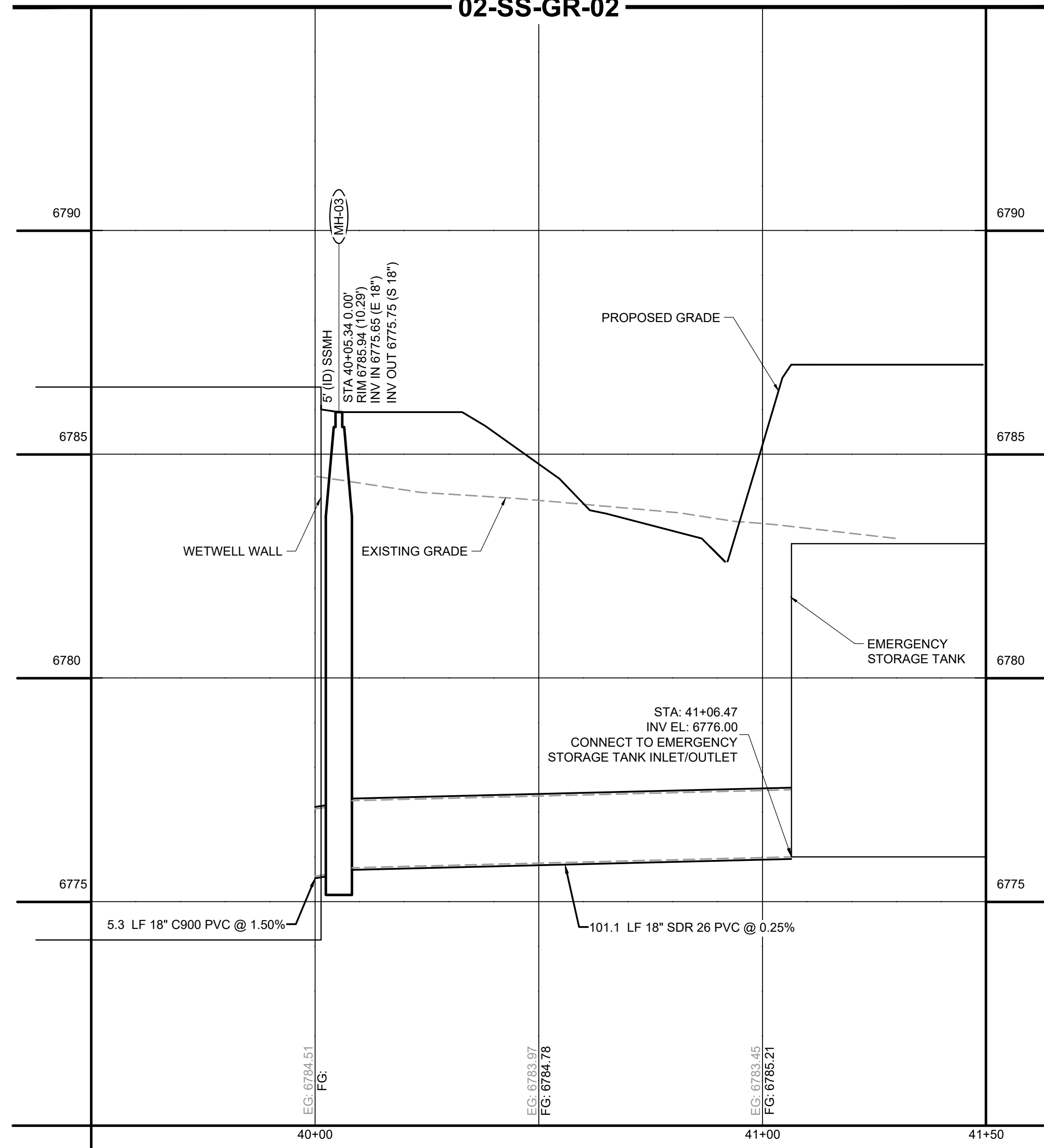
HR GREEN Xrns: XV-Row; XV-Util; xqt-1-dh01-Ls; XC-Lift-Station; XC-Electrical; XC-Driveway; XC-Utility; XC-Dagn; XC-Initial-EC; XV-Dagn; Legend; Erosion_Control_Key; 01-DC-San-Fm; XV-Fema; Plug Valve MH



- 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



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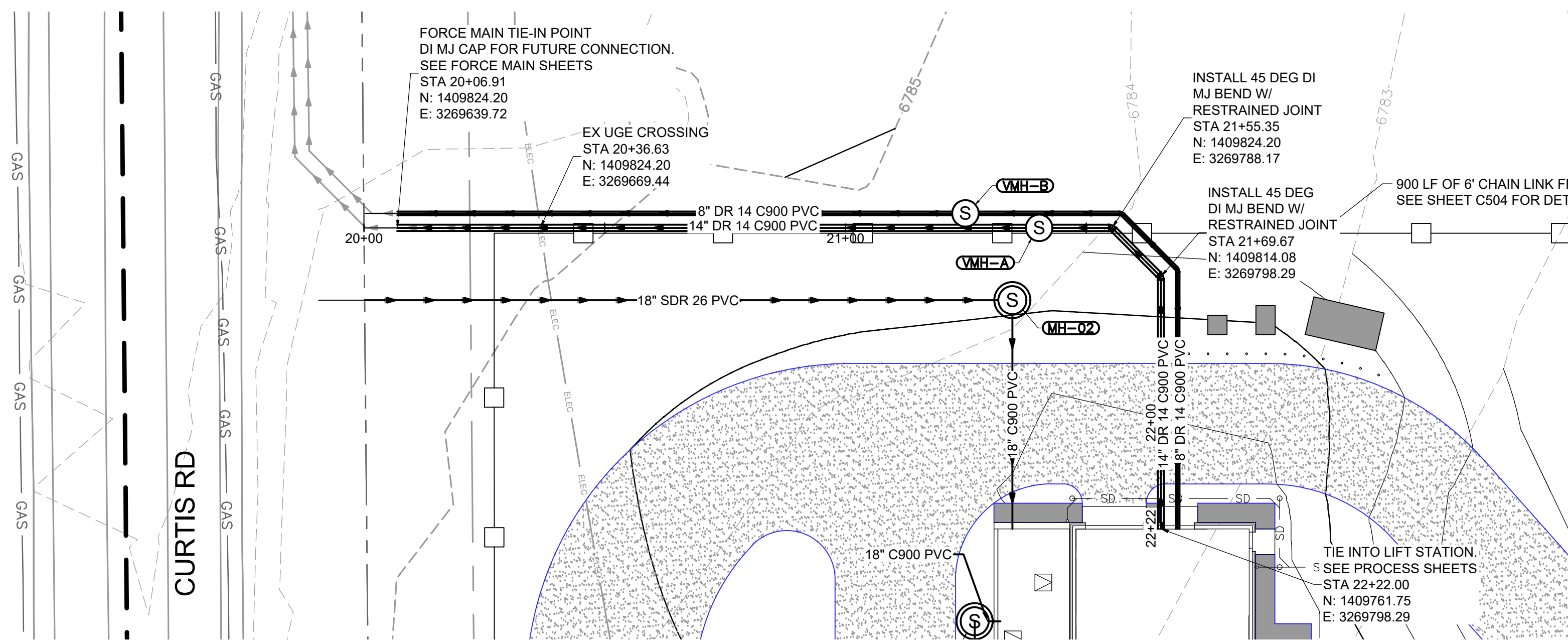
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 EMERGENCY STORAGE PLAN AND PROFILES

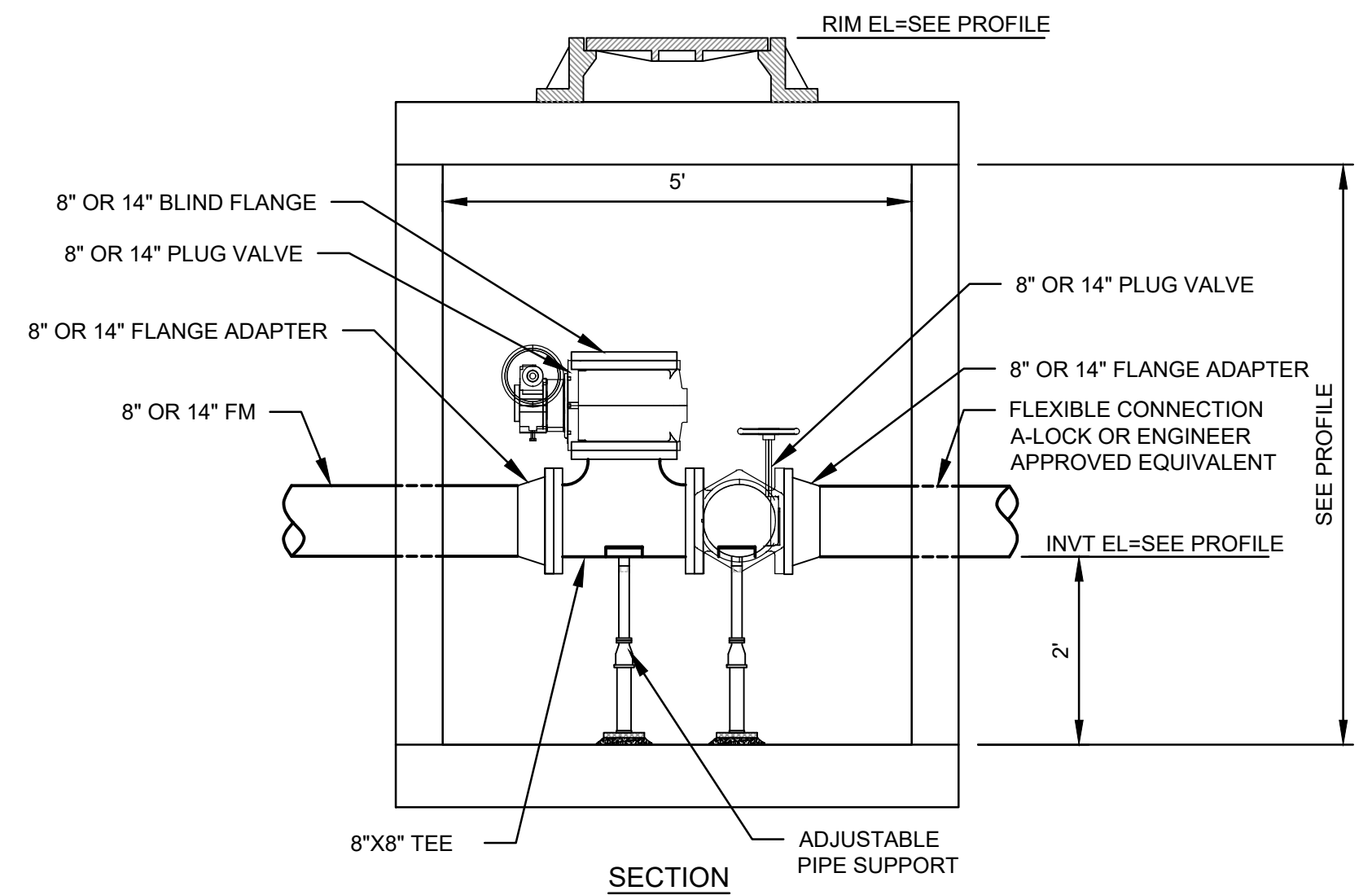
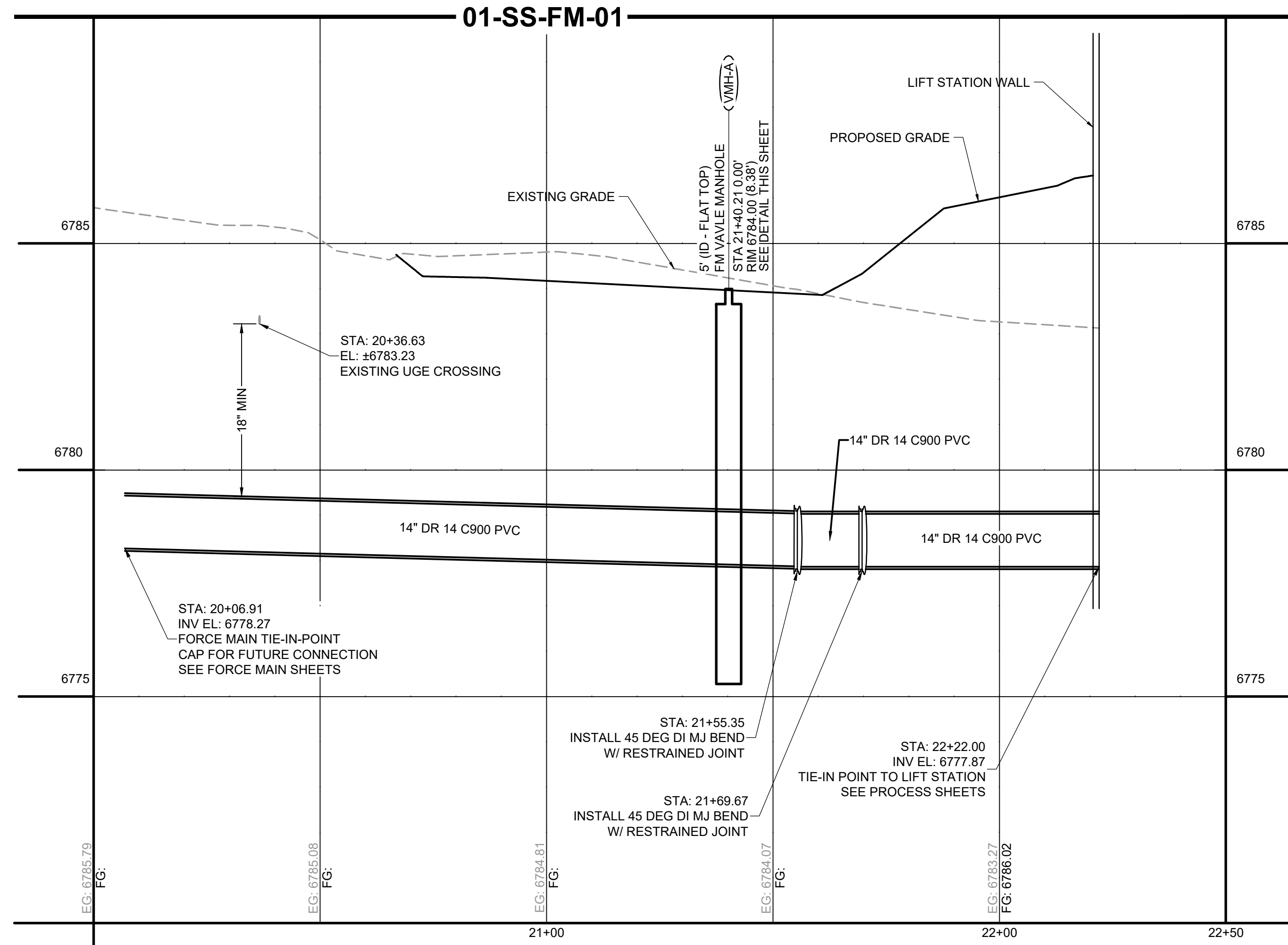
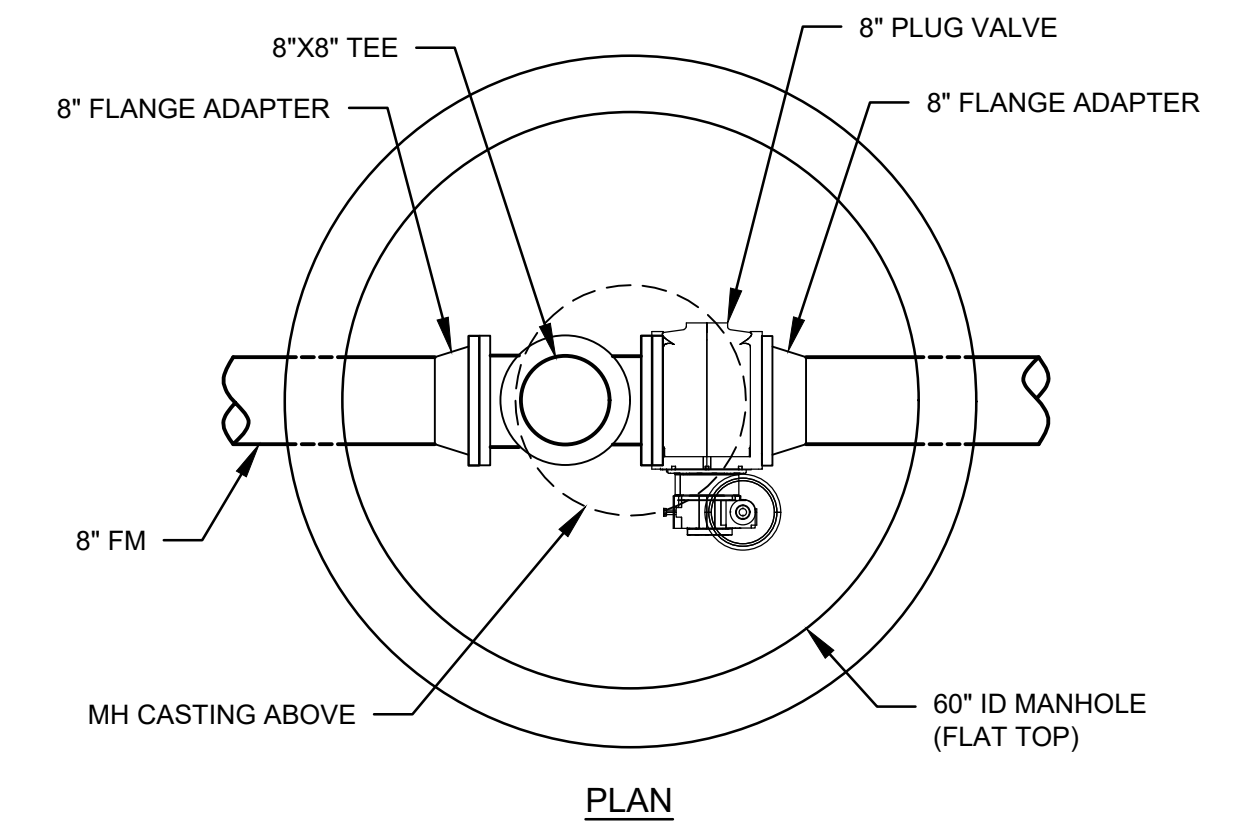
SHEET
C106

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

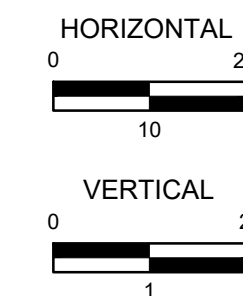


GENERAL NOTES:

- 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**



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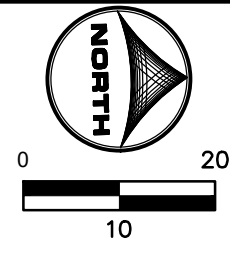


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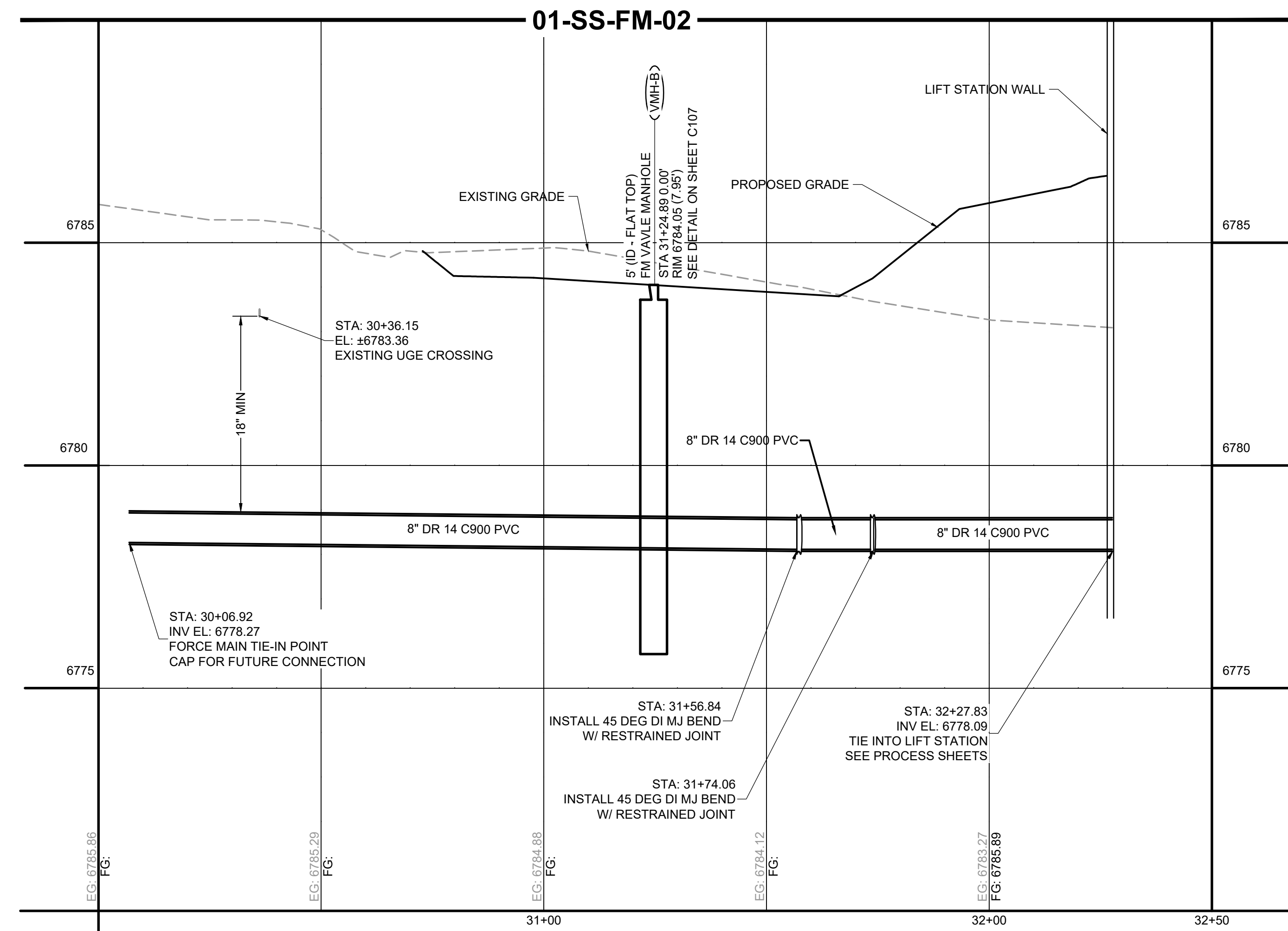
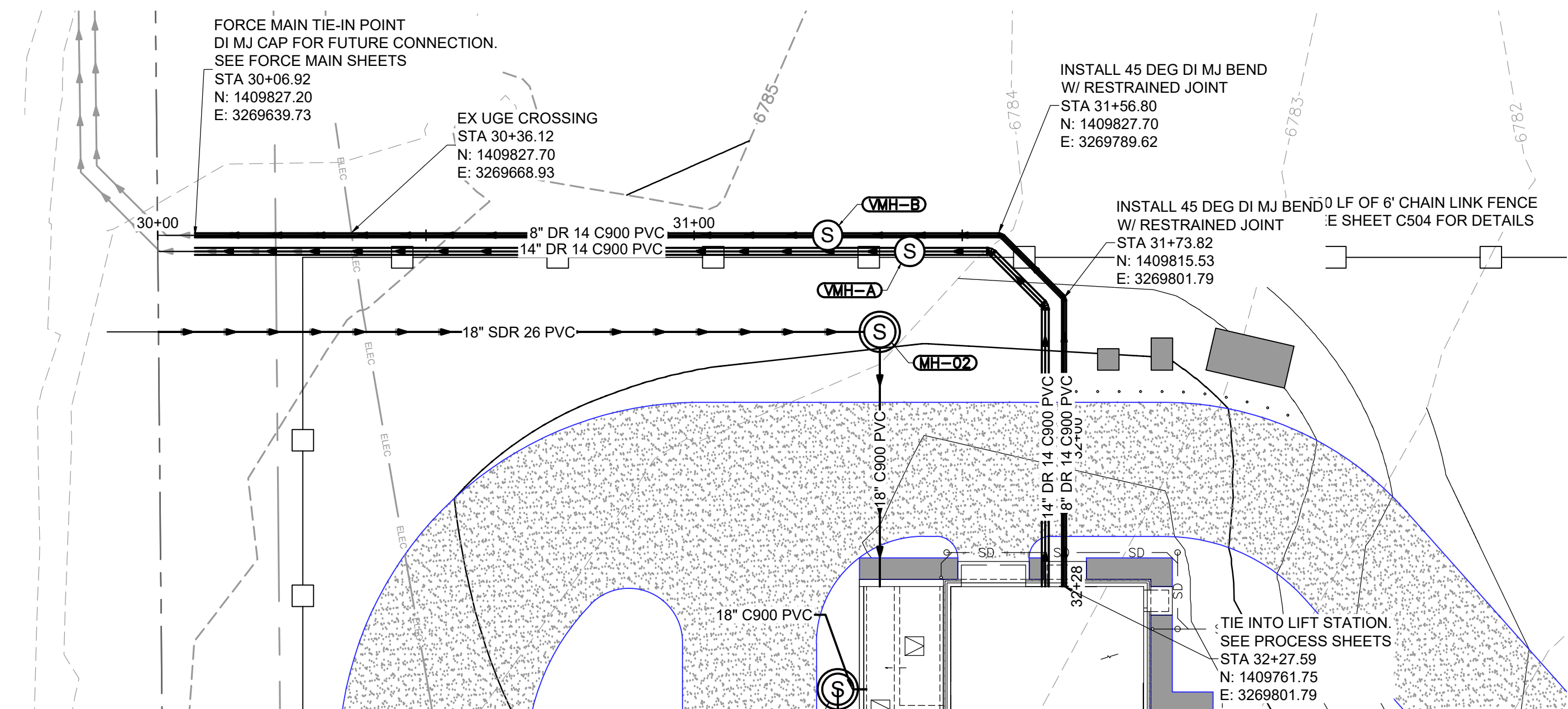


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14-INCH FORCE MAIN PLAN AND PROFILE

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.



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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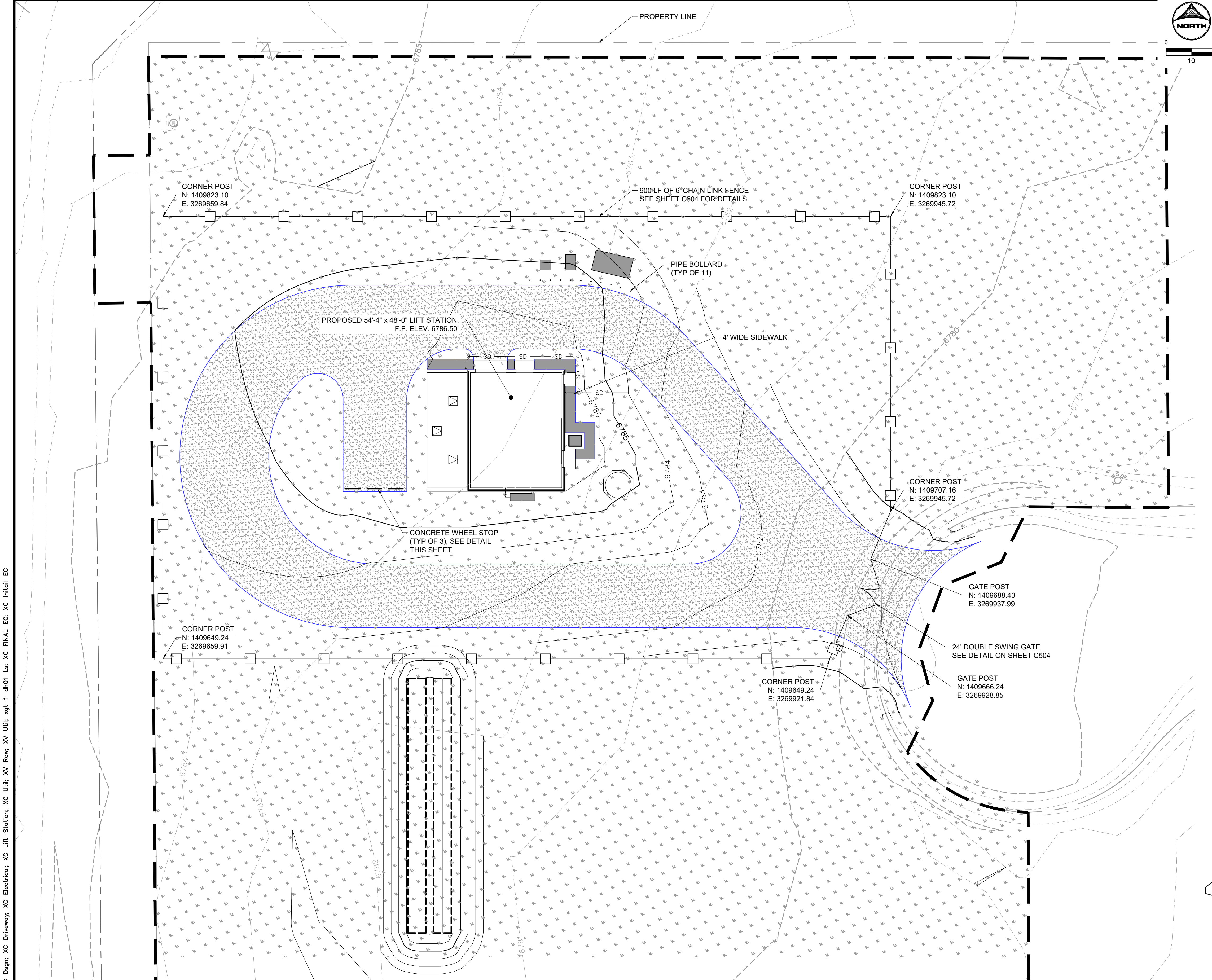
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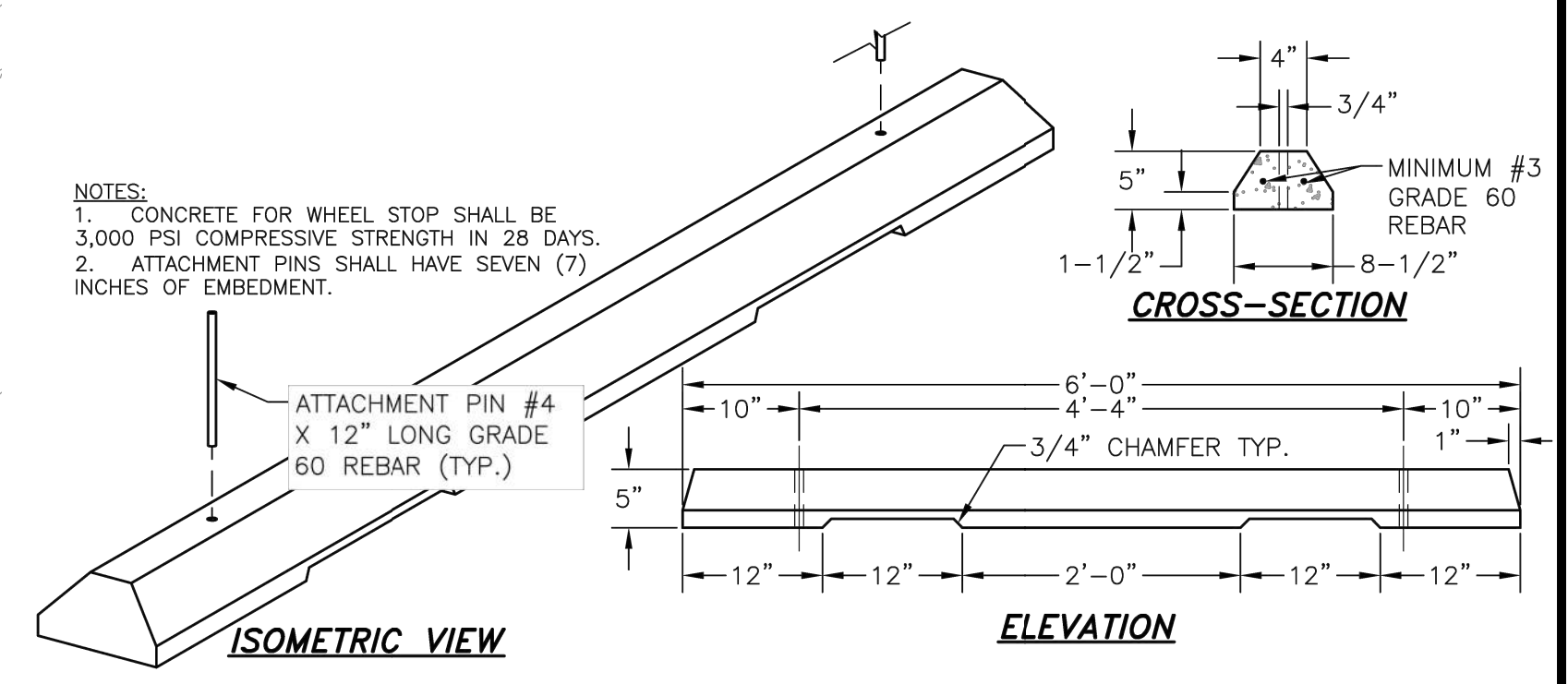
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CIVIL
 8-INCH FORCE MAIN PLAN AND PROFILE

SHEET
 C108



- LANDSCAPE IMPROVEMENTS**
1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE AND BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE LANDSCAPE LEGEND.
 2. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING, OR AFTER INSTALLATION.
 3. NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
 4. ALL PLANTING STOCK SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK," ANSI-Z60, LATEST EDITION, OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS.
 5. EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED TO THE DRIP LINE FROM ALL CONSTRUCTION TRAFFIC, STORAGE MATERIALS, ETC. WITH 4' HT. ORANGE PLASTIC SAFETY FENCING ADEQUATELY SUPPORTED BY STEEL FENCE POSTS 6' O.C. MAXIMUM SPACING.
 6. ALL PLANT MATERIAL LOCATIONS SHOWN ARE APPROXIMATE. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIALS PRIOR TO INSTALLATION.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN. THESE QUANTITIES ARE INCIDENTAL AND THE CONTRACTOR SHALL VERIFY.
 8. LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.
 9. ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
 10. ALL PLANTS SHALL BE GUARANTEED FOR ONE COMPLETE GROWING SEASON (APRIL 1 - NOVEMBER 1), UNLESS OTHERWISE SPECIFIED. THE GUARANTEE SHALL COVER THE FULL COST OF REPLACEMENT INCLUDING LABOR AND PLANTS.
 11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 3 DAYS PRIOR TO PLANNED DELIVERY. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 24 HOURS IN ADVANCE OF BEGINNING PLANT INSTALLATION.
 12. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PORTION OF THE WORK IS IN PLACE. PLANT MATERIAL SHALL BE PROTECTED AND MAINTAINED UNTIL THE INSTALLATION OF THE PLANTS IS COMPLETE. INSPECTION HAS BEEN MADE, AND PLANTINGS ARE ACCEPTED EXCLUSIVE OF THE GUARANTEE. MAINTENANCE SHALL INCLUDE WATERING, CULTIVATING, MULCHING, REMOVAL OF DEAD MATERIALS, RE-SETTING PLANTS TO PROPER GRADE AND KEEPING PLANTS IN A PLUMB POSITION. AFTER ACCEPTANCE, THE OWNER SHALL ASSUME MAINTENANCE RESPONSIBILITIES. HOWEVER, THE CONTRACTOR SHALL CONTINUE TO BE RESPONSIBLE FOR KEEPING TREES PLUMB THROUGHOUT THE GUARANTEE PERIOD.
 13. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL LANDSCAPE LEGEND SPECIFICATIONS.
 14. WATERING: MAINTAIN A WATERING SCHEDULE WHICH WILL THOROUGHLY WATER ALL PLANTS ONCE A WEEK IN EXTREMELY HOT, DRY WEATHER. WATER MORE OFTEN AS REQUIRED BY INDICATIONS OF HEAT STRESS SUCH AS WILTING LEAVES. CHECK MOISTURE UNDER MULCH PRIOR TO WATERING TO DETERMINE NEED. CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR WATER.
 15. CONTRACTOR SHALL REQUEST, IN WRITING, A FINAL ACCEPTANCE INSPECTION.
 16. ALL DISTURBED AREAS TO BE SEEDED, ARE TO RECEIVE 8" TOP SOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. SEEDING SHALL BE AS PER EL PASO COUNTY STANDARDS.
 17. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE LANDSCAPE LEGEND.
 18. ALL PLANTS WILL BE APPROPRIATELY MAINTAINED TO MEET THE WATERING, MAINTENANCE, ACCEPTANCE, AND WARRANTY REQUIREMENTS.
 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AND OTHER CONTRACTORS OF RELATED TRADES, AS REQUIRED, TO ACCOMPLISH THE PLANTING AND RELATED OPERATIONS.
 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES.
 21. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED BY OPERATION OF OR RELATED TO THE CONTRACTOR'S WORK.



NOTES:
 1. CONCRETE FOR WHEEL STOP SHALL BE 3,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
 2. ATTACHMENT PINS SHALL HAVE SEVEN (7) INCHES OF EMBEDMENT.

WHEEL STOP DETAIL
 SCALE: NTS

HR GREEN Xrefs: XC-Dwg; XC-Driveway; XC-Electrical; XC-Lift-Station; XC-Utit; XY-Rov; XY-Utit; xg1-1-gh01-Ls; XC-FINAL-EC; XC-Initial-EC

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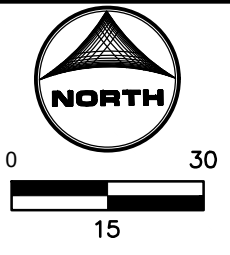
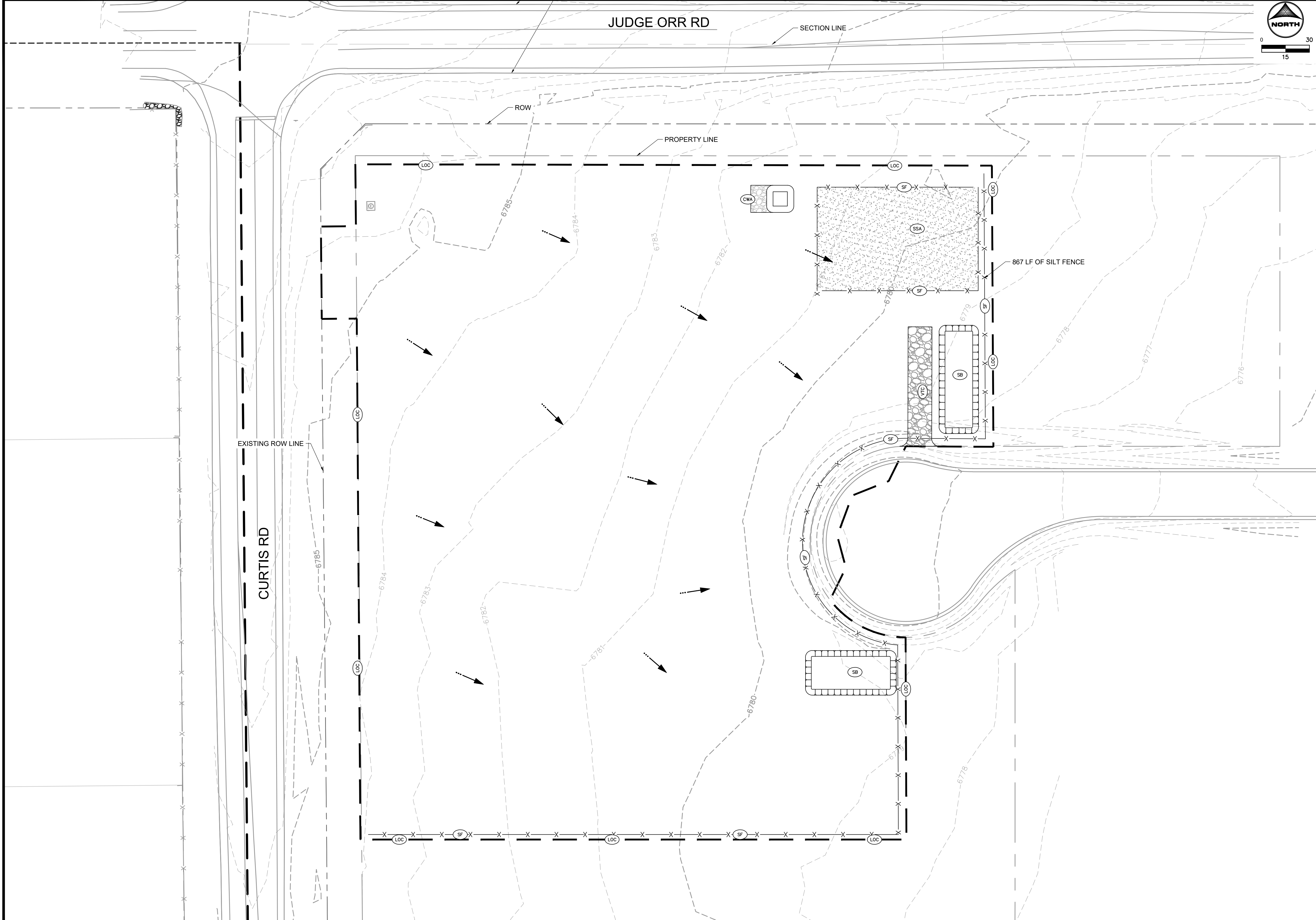


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CIVIL
 LANDSCAPING PLAN

SHEET
C109



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

HR GREEN Xr:ris 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

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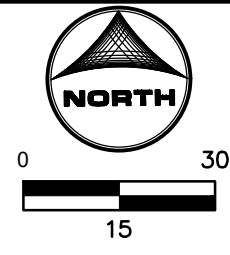


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CIVIL
 INITIAL-INTERIM EROSION CONTROL

SHEET
 C110



JUDGE ORR RD

SECTION LINE

ROW

PROPERTY LINE

EXISTING ROW LINE


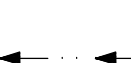
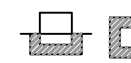
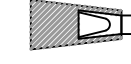
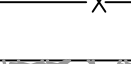
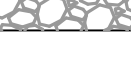



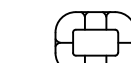







CURTIS RD

GRANULAR DRIVEWAY
SEE SHEET C103

GENERAL NOTES:

1. SEE LANDSCAPING PLAN ON C109 FOR SEEDING REQUIREMENTS.
2. 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

DRAWN BY: ACH JOB DATE: 6/12/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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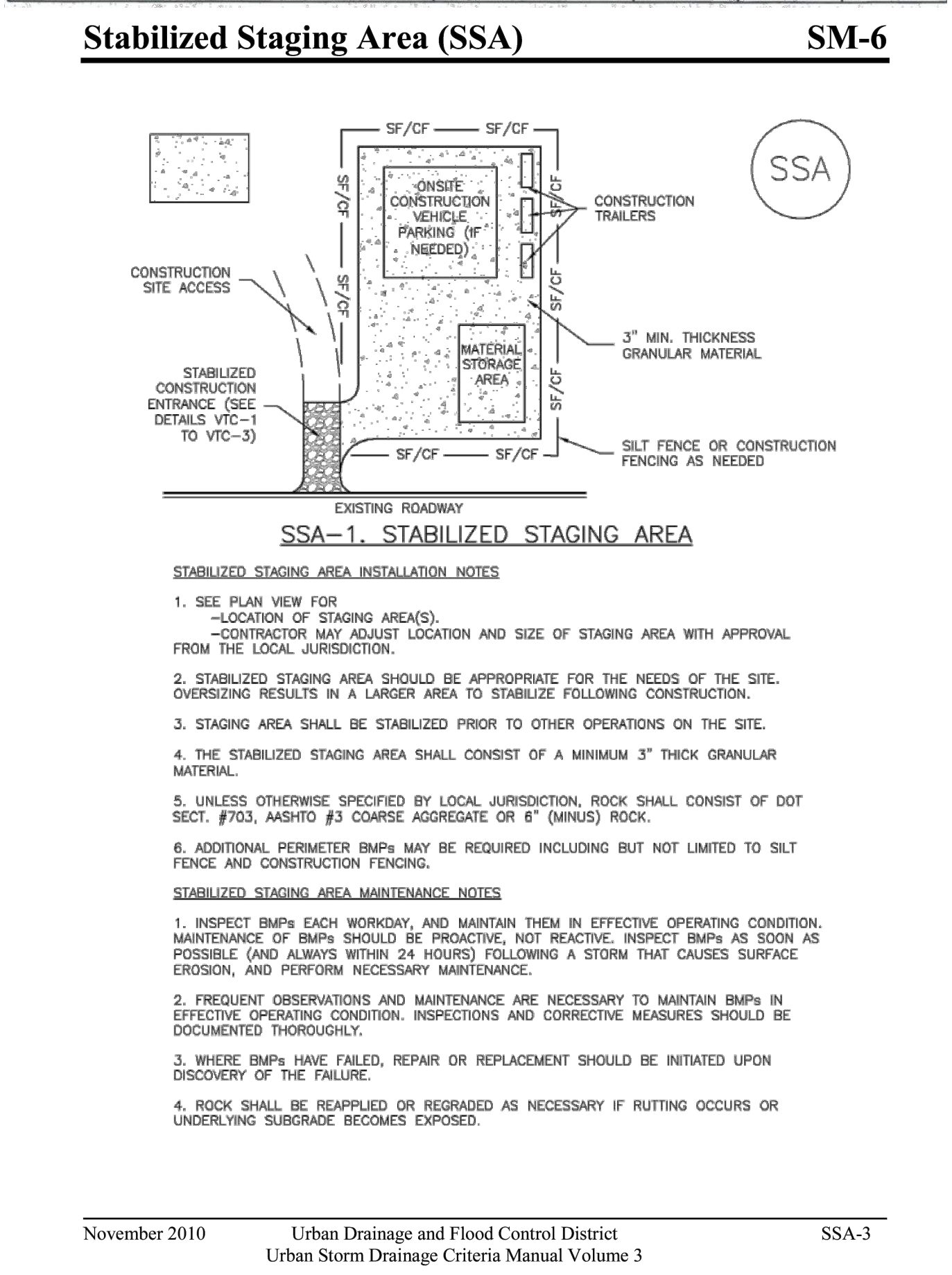
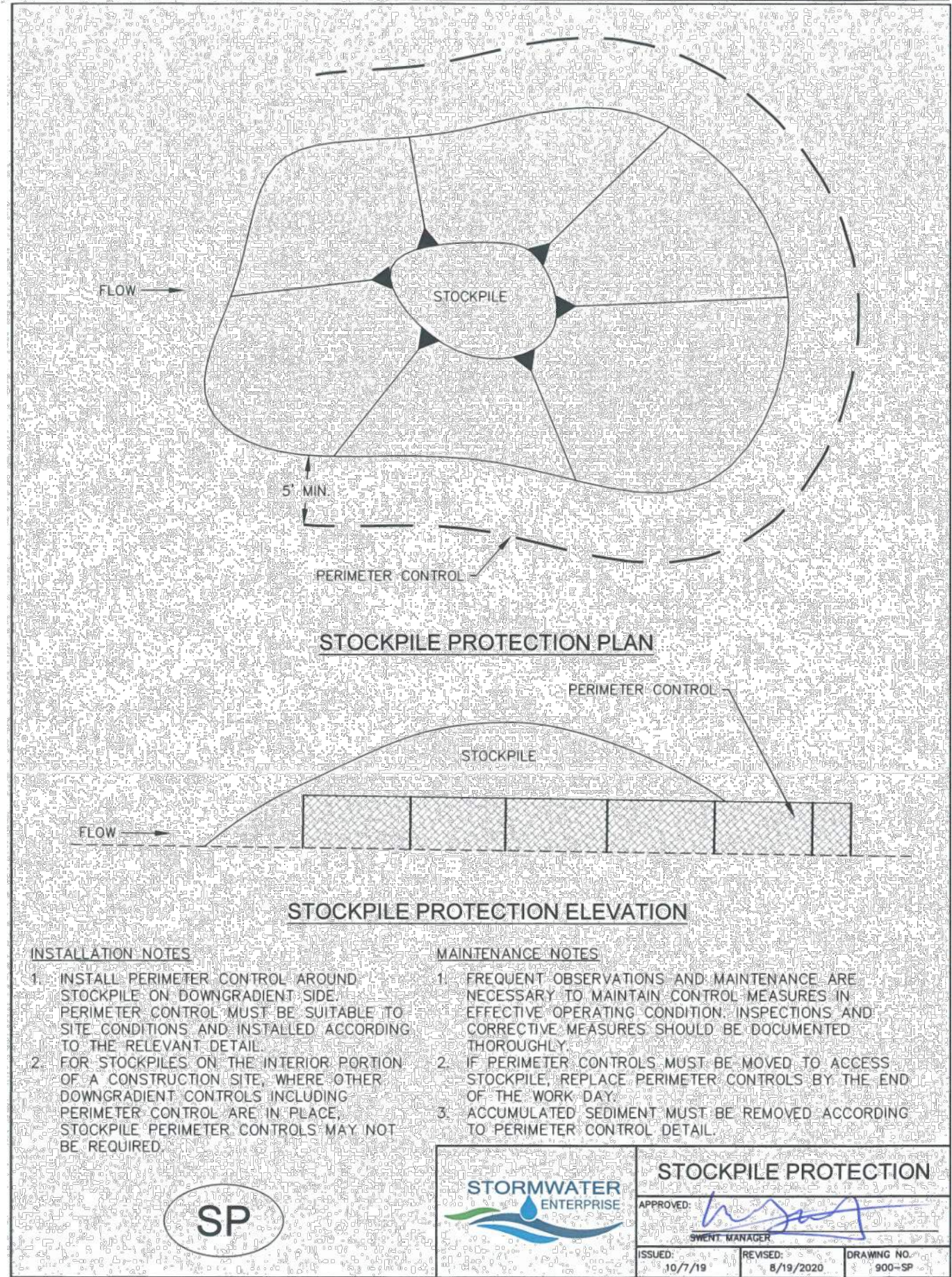
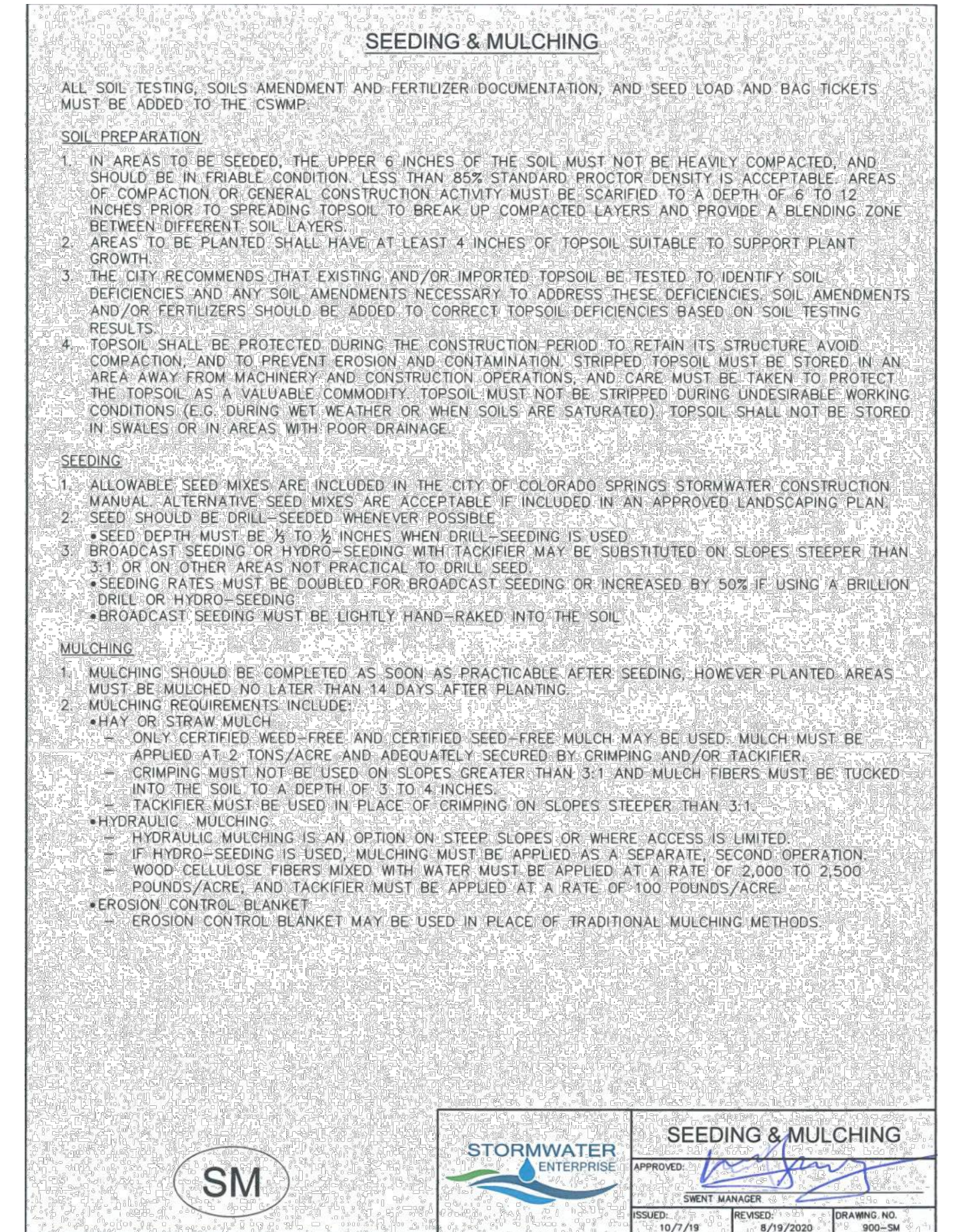
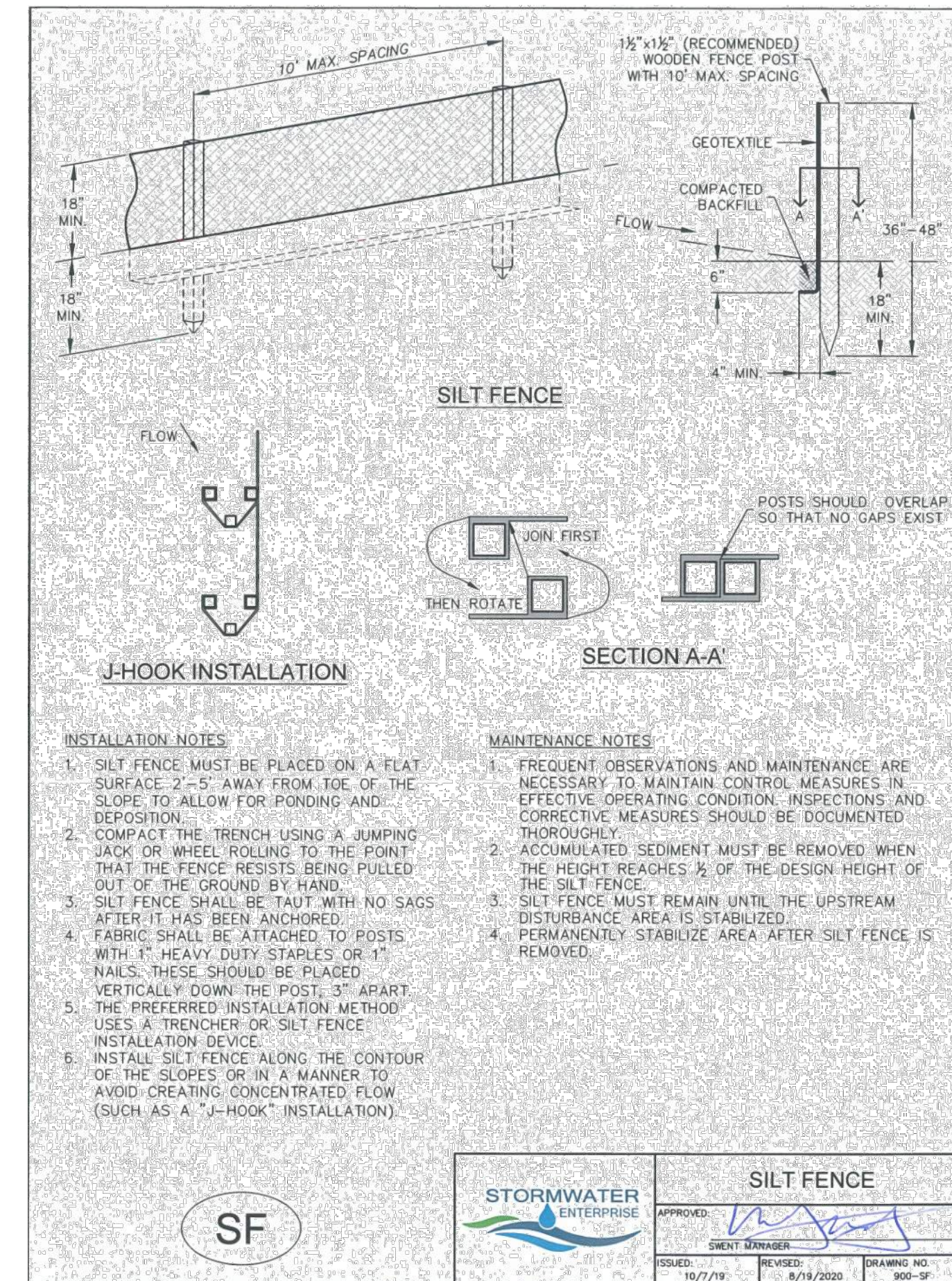
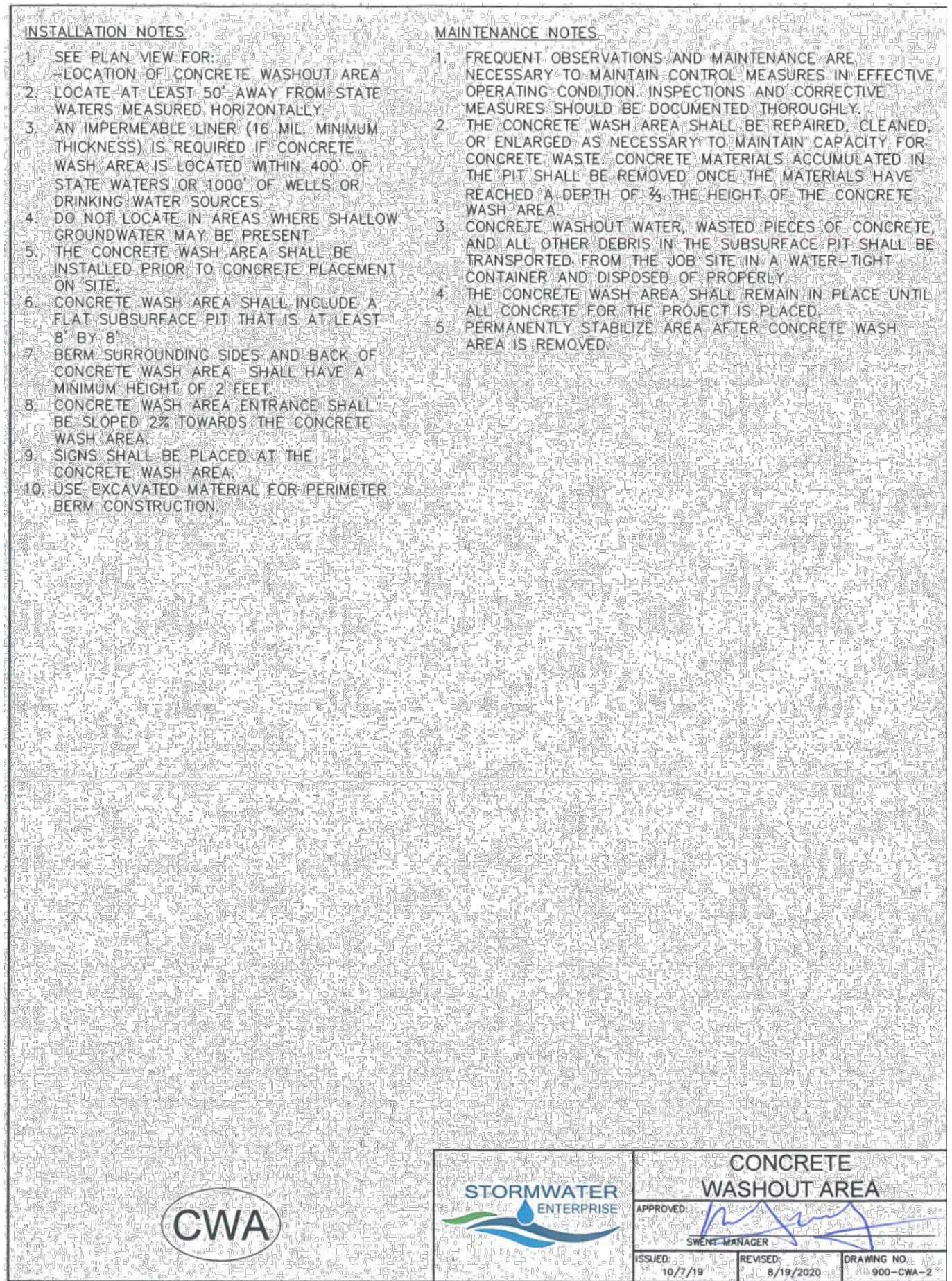
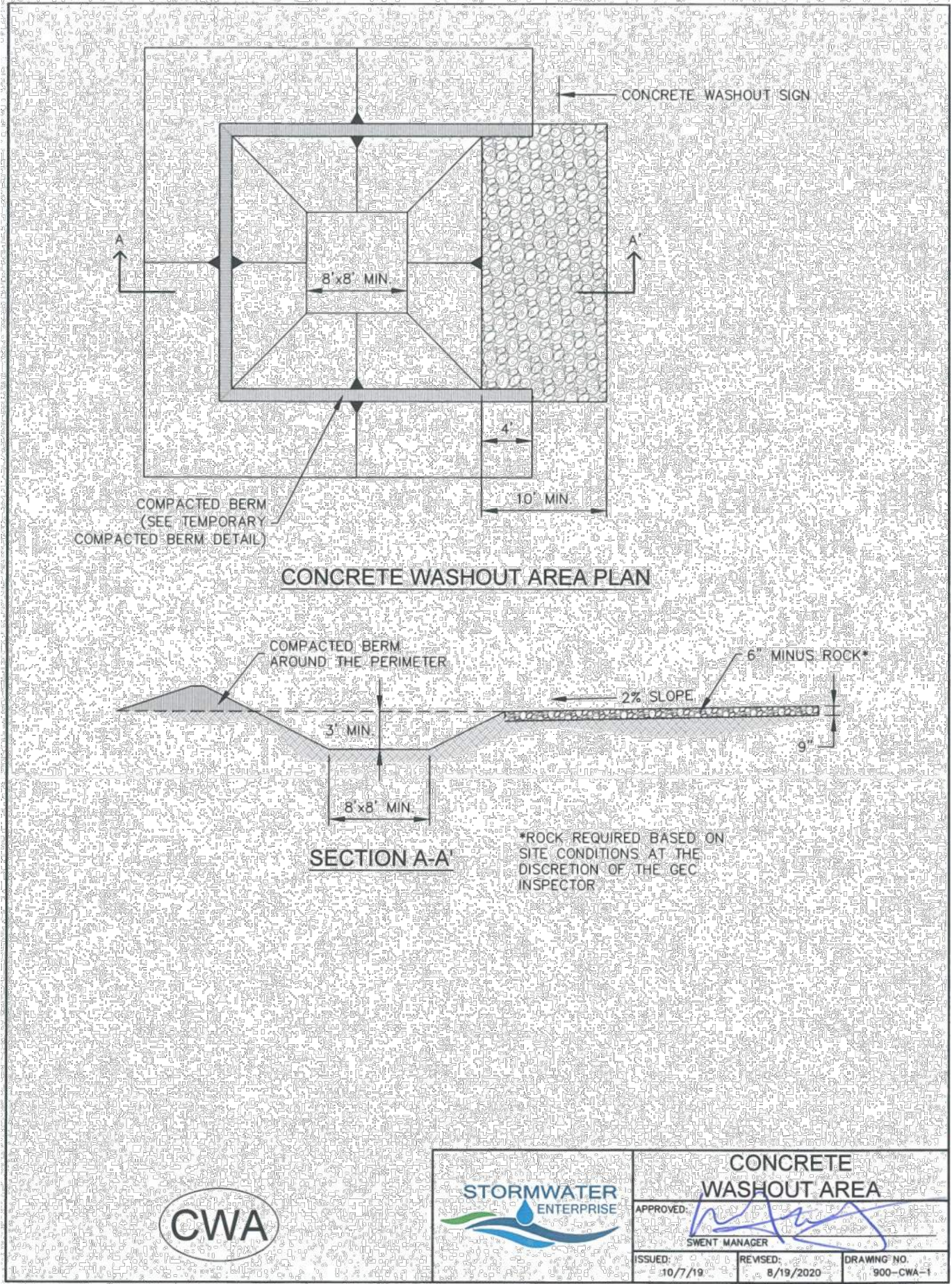
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 DESIGN & PERMITTING SERVICES
 EL PASO COUNTY
 PEYTON, CO



CIVIL
 FINAL EROSION CONTROL

SHEET
 C111

HR GREEN Xr:ris XV-Row XV-Utili xgl-1-dh01-Ls XC-Driveway XC-Lift-Station XC-Electrical XC-Utili XC-initial-EC XC-FINAL-EC XV-Design



HR GREEN Xcel: xgl-dh01-LLS

DRAWN BY: BDB JOB DATE: 6/19/2024
 APPROVED: JPF JOB NUMBER: 201662.07
 CAD DATE: 6/21/2024
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November 2010 Urban Drainage and Flood Control District SSA-3
 Urban Storm Drainage Criteria Manual Volume 3

SSA-4 Urban Drainage and Flood Control District November 2010
 Urban Storm Drainage Criteria Manual Volume 3

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 EL PASO COUNTY
 PEYTON, CO

CIVIL
 CIVIL DETAILS

SHEET
 C500

Synthetic Stabilized Construction Entrance FODS TRACKOUT CONTROL SYSTEM INSTALLATION GUIDE

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE). THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AROUND THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES:

- A. FODS TRACKOUT CONTROL SYSTEM MAT.
- B. FODS SAFETY SIGN.
- C. ANCHOR POINT.
- D. SILT OR ORANGE CONSTRUCTION FENCE.

INSTALLATION:

1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
2. CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN ADVANCE OF THE FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT #11.
3. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELLED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, SUDDEN ABRUPT CHANGES IN ELEVATION, AND SIMILAR. FODS WILL SPAN AND SUPPORT OVER MOST OBSTACLES, BUT THE FLATTER AND SMOOTHER THE TERRAIN UNDER THE FODS TRACKOUT CONTROL SYSTEM WILL BE MORE EFFICIENT AND SAFER.
4. NEXT THE INDIVIDUAL MATS CAN START TO BE PLACED IN POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE PAVED SURFACE AND/OR CURB AT THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE TO THE PAVED SURFACE, FROM THE SITE TO THE PAVED SURFACE.
5. AFTER THE FIRST MAT IS PLACED DOWN IN ITS PROPER LOCATION, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT. BEFORE ANOTHER MAT IS POSITIONED ADJACENT TO THE FIRST MAT.
6. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS.
7. NEXT, THE CONNECTOR STRAP SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
8. AFTER THE FIRST MAT IS PLACED DOWN IN ITS PROPER LOCATION, IT SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. NEXT ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
9. ONCE THE FIRST MAT IS ANCHORED DOWN, THE SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM.
10. UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
11. AFTER INSTALLATION OF THE FODS TRACKOUT CONTROL SYSTEM, FODS SAFETY SIGNS SHOULD BE PLACED AT THE ENTRANCE AND EXIT SIDES OF THE FODS TRACKOUT CONTROL SYSTEM.
12. A SILT FENCE OR ORANGE CONSTRUCTION FENCE SHOULD ALSO BE INSTALLED ON THE SIDES OF THE FODS TRACKOUT CONTROL SYSTEM TO DIRECT VEHICLES DOWN THE MATS AND BARRICADE PEDESTRIANS FROM CROSSING THE MATS. PEDESTRIANS SHOULD ALSO USE EXTREME CAUTION WHEN CROSSING THE MATS AS THE SURFACE IS UNEVEN AND MAY BE DIFFICULT TO WALK ON.

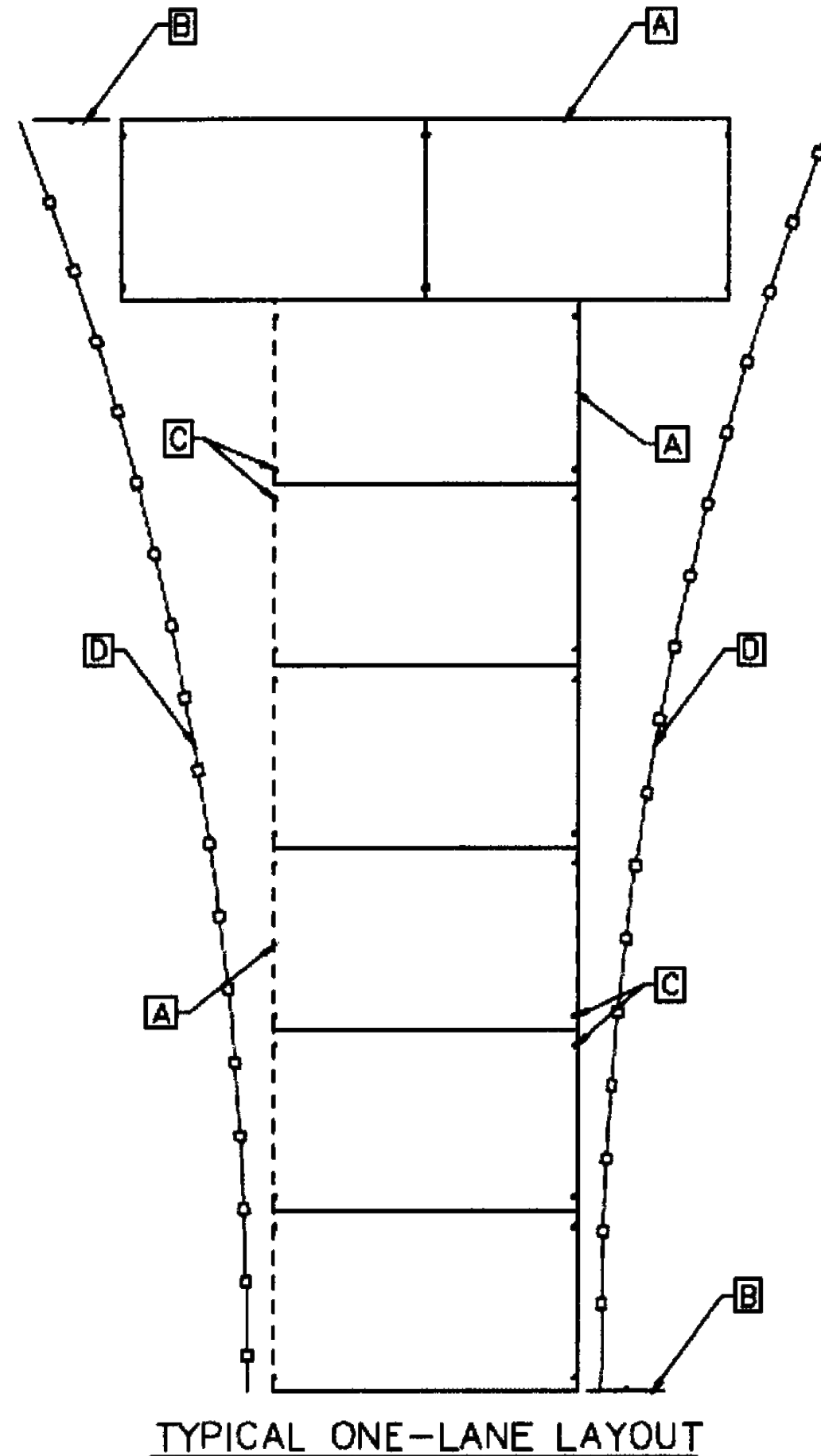
USE AND MAINTENANCE:

1. VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
2. DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL TAKE A SERPENTINE ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM.
3. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE MATS BECOME FULL OF SEDIMENT. TYPICALLY THIS TASK WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
4. THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DEICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT.

REMOVAL:

1. REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS THE REVERSE ORDER OF THE INSTALLATION.
2. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST.
3. THE CABLE ANCHORS SHOULD BE CUT WITH WIRE ROPE CUTTERS.
4. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM.
5. STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLUFT OR EXCAVATOR ON TO A TRUCK FOR REMOVAL FROM THE SITE.

CALL UTILITY NOTIFICATION CENTER
811
CALL 24 HOURS AHEAD TO ARRANGE
FOR THE SERVICE OF UNDERGROUND
MEMBER UTILITIES.



TYPICAL ONE-LANE LAYOUT

FIG. 1

Single Lot Access Vehicle Tracking Control Mats

Single Lot Access VTC (Mud Mats)

Description and Purpose

A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Suitable Applications

Use at construction sites:

- Where dirt or mud can be tracked onto public roads.
- Where a single family lot needs a temporary access point.

Limitations

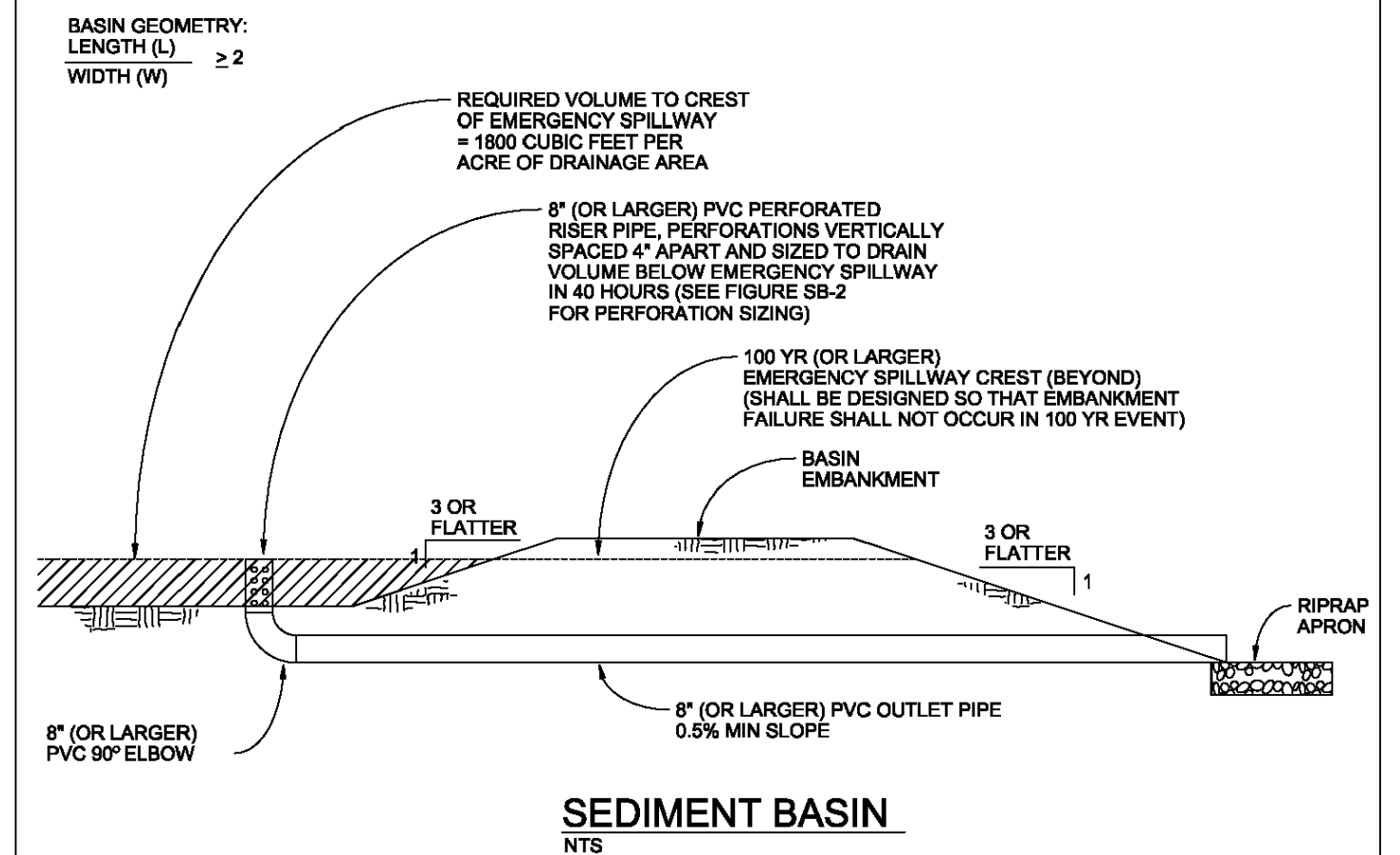
- Entrances and exits require periodic cleaning and maintenance.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way
- Entrances and exits should be constructed on level ground only or sloping away from paved surfaces.

Implementation

- Construct on level ground or sloping down and away from paved surfaces where possible.
- For individual lots VTC perimeter may be reduced to minimum 8' x 15' due to space limitation. This is for access to single family lots only.)
- Limit the points of entrance/exit to the construction site.
- Properly grade each construction entrance/exit to prevent runoff from leaving the construction site.
- Route runoff from stabilized entrances/exits through a sediment trapping device before discharge.
- Require that all employees, subcontractors, and suppliers to utilize the stabilized construction access when lot access is necessary.
- Educate all employees, subcontractors, and suppliers on keeping vehicles off-site whenever possible.
- Limit access to only access that is absolutely necessary.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMPs are under way, inspect in accordance with the specified inspection schedule in the site SWMP.
- Visually inspect local roads adjacent to the site daily. Sweep or vacuum to remove visible accumulated sediment.
- Check for damage and repair as needed.
- Remove accumulated sediment as needed.
- Reset and restake as needed.
- Remove any sediment deposited on paved roadways immediately.



SEDIMENT BASIN
NTS

SEDIMENT BASIN NOTES

INSTALLATION REQUIREMENTS

1. SEDIMENT BASINS SHALL BE INSTALLED BEFORE ANY CLEARING AND/OR GRADING IS UNDERTAKEN.
2. THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
3. THE OUTLET OF THE BASIN SHALL BE DESIGNED TO DRAIN ITS VOLUME IN 40 HOURS.
4. THE OUTLET IS TO BE LOCATED AT THE FURTHEST DISTANCE FROM THE INLET OF THE BASIN. BAFFLES MAY BE NEEDED TO INCREASE THE FLOW LENGTH AND SETTLING TIME.
5. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
6. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 688.
7. WHEN A BASIN IS INSTALLED NEAR A RESIDENTIAL AREA, FOR SAFETY REASONS, A SIGN SHALL BE POSTED AND THE AREA SECURED WITH A FENCE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT SEDIMENT BASINS AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
2. SEDIMENT BASINS SHALL BE CLEANED OUT BEFORE SEDIMENT HAS FILLED HALF THE VOLUME OF THE BASIN.
3. SEDIMENT BASINS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs
Stormwater Quality

Figure SB-1
Sediment Basin
Construction Detail and Maintenance
Requirements

Design Volume (acre-ft)	Required Area per Row (in ²)							
	Depth at Outlet (ft)							
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
2	15.04	7.71	5.10	3.76	2.95	2.41	2.02	1.73
1	7.52	3.86	2.55	1.88	1.48	1.21	1.01	0.87
0.6	4.51	2.31	1.53	1.13	0.89	0.72	0.61	0.52
0.4	3.01	1.54	1.02	0.75	0.59	0.48	0.40	0.35
0.2	1.50	0.77	0.51	0.38	0.30	0.24	0.20	0.17
0.1	0.75	0.39	0.26	0.19	0.15	0.12	0.10	0.09
0.06	0.45	0.23	0.15	0.11	0.09	0.07	0.06	0.05
0.04	0.30	0.15	0.10	0.08	0.06	0.05	0.04	0.03
0.02	0.15	0.08	0.05	0.04	0.03	0.02	0.02	0.02
0.01	0.08	0.04	0.03	0.02	0.01	0.01	0.01	0.01

TABLE SB-1

Hole Diameter (ft)	Hole Diameter (in)	Area per Row (in ²)		
		n = 1	n = 2	n = 3
1/4	0.250	0.05	0.10	0.15
5/16	0.313	0.08	0.15	0.23
3/8	0.375	0.11	0.22	0.33
7/16	0.438	0.15	0.30	0.45
1/2	0.500	0.20	0.39	0.59
9/16	0.563	0.25	0.50	0.75
5/8	0.625	0.31	0.61	0.92
11/16	0.688	0.37	0.74	1.11
3/4	0.750	0.44	0.88	1.33
7/8	0.875	0.60	1.20	1.80
1	1.000	0.79	1.57	2.36
1 1/8	1.125	0.99	1.99	2.98
1 1/4	1.250	1.23	2.45	3.68
1 3/8	1.375	1.48	2.97	4.45
1 1/2	1.500	1.77	3.53	5.30
1 5/8	1.625	2.07	4.15	6.22
1 3/4	1.750	2.41	4.81	7.22
1 7/8	1.875	2.76	5.52	8.28
2	2.000	3.14	6.28	9.42

n = Number of columns of perforations

Minimum steel plate thickness: 1/4" (n=1), 5/16" (n=2), 3/8" (n=3)

TABLE SB-2

City of Colorado Springs
Stormwater Quality

Figure SB-2
Outlet Sizing
Application Techniques and Maintenance
Requirements

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CAD DATE: 6/21/2024 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662.07\CAD\DWG\CILift_Station\Is_Details

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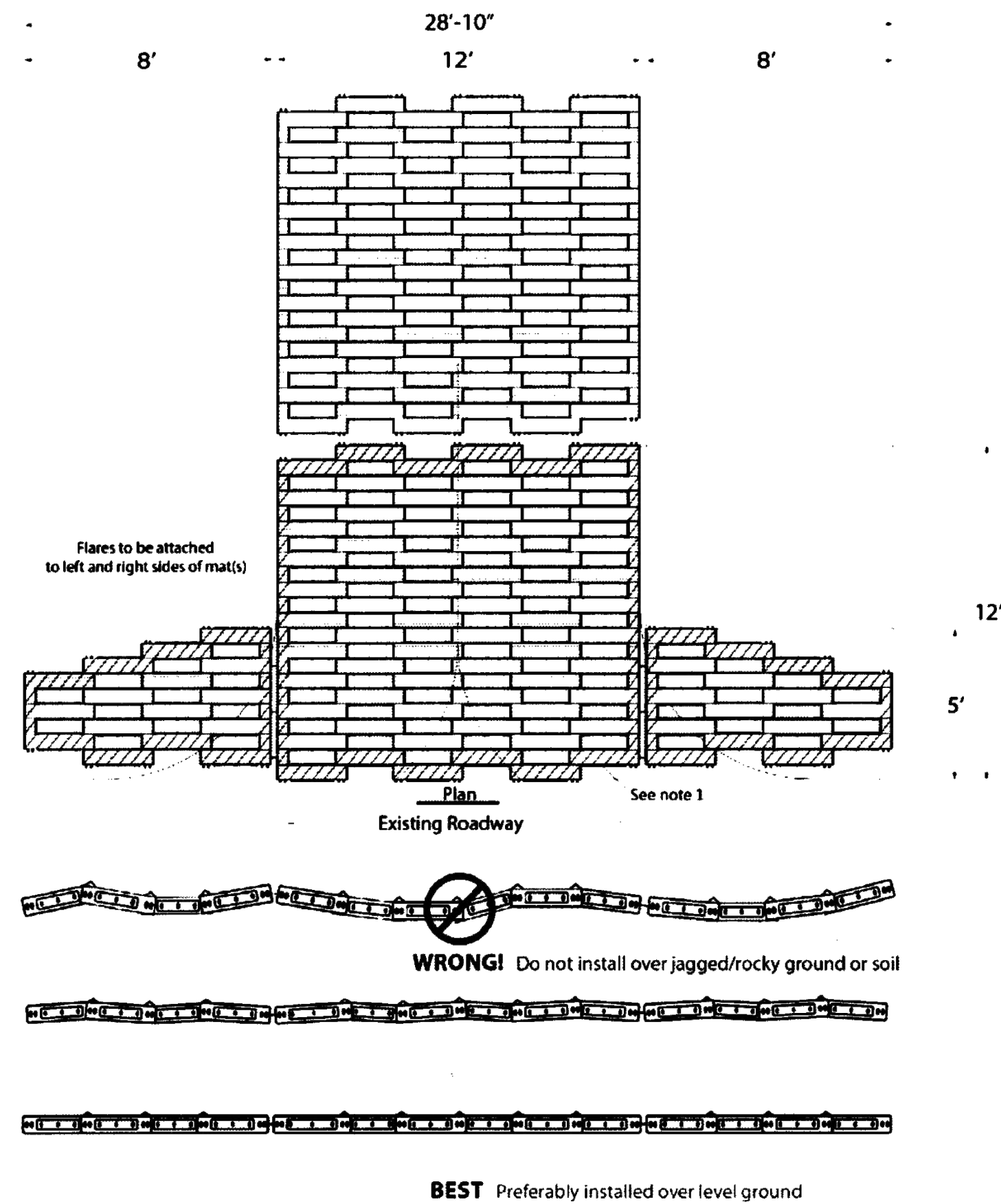
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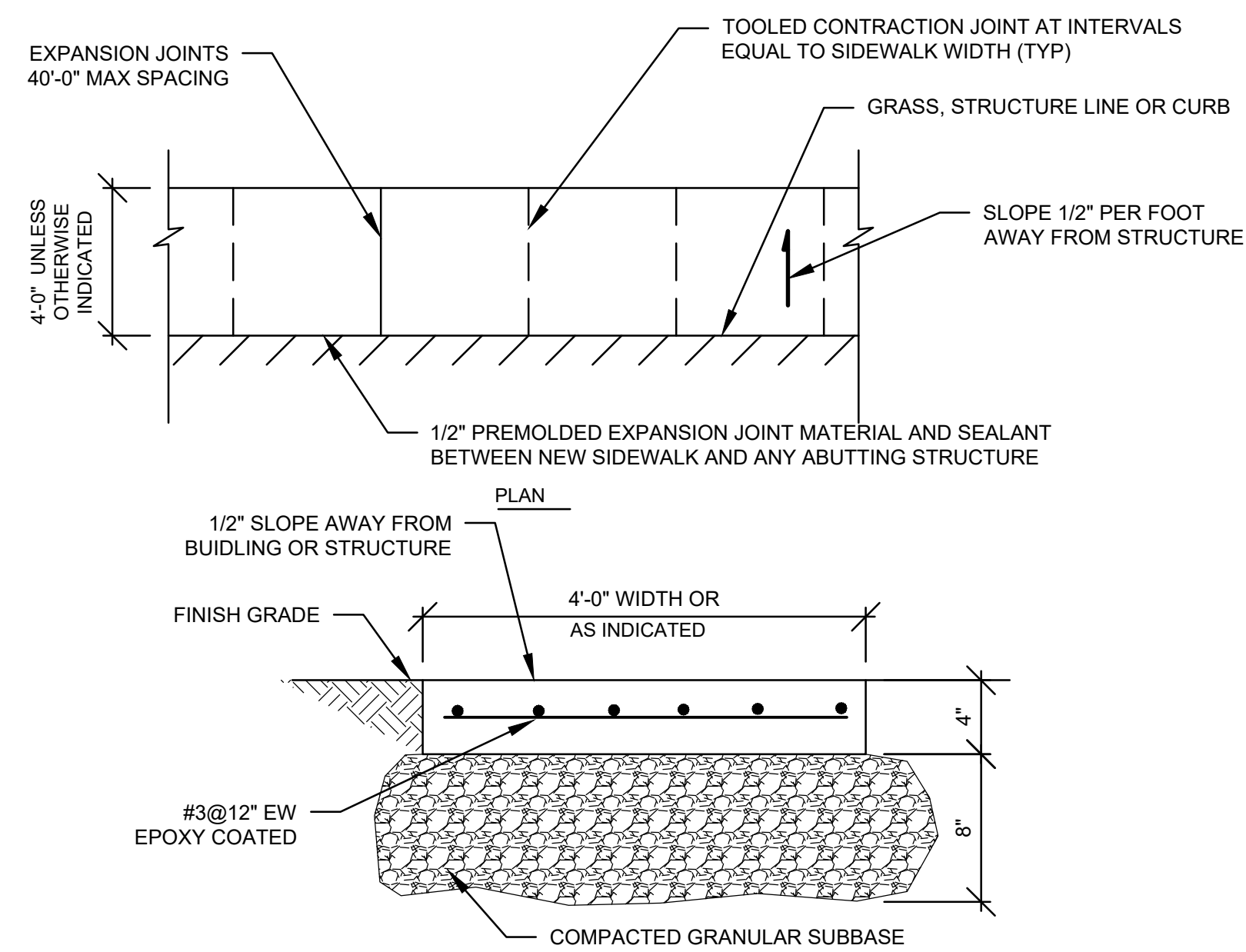
SHEET
C501

Rubber Vehicle Tracking Control Pads



- NOTES**
1. ~~NO PICK (ROWS)~~
 2. INSTALL MAT RAISED TAB SIDE UP
 3. EXPANDABLE AS NECESSARY

Tracking Pad Details		
8111 Parker St Commerce City, CO 80222	Date: 10/28/2016	Sheet: 1 of 1



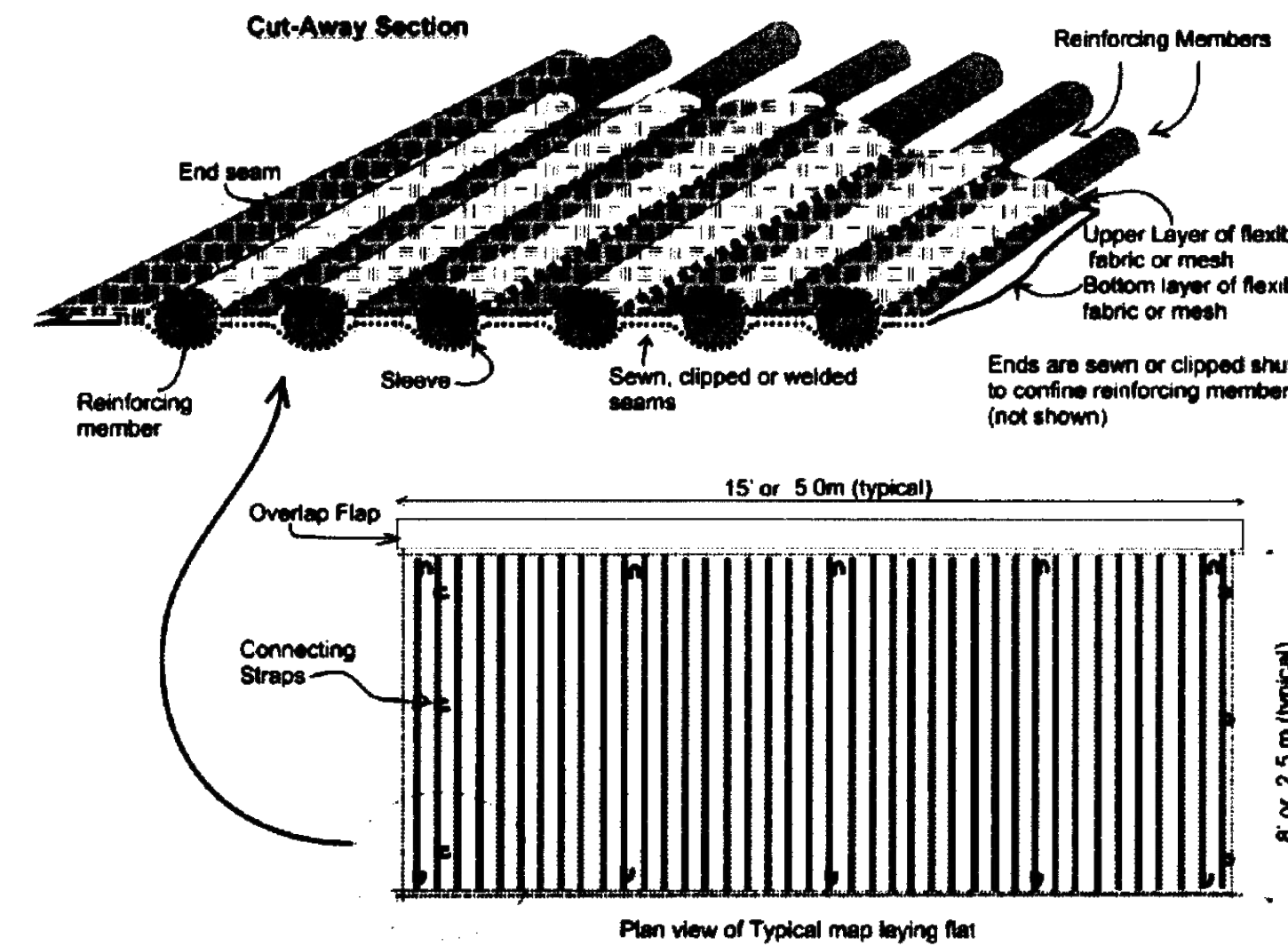
2 SIDEWALK DETAILS

SCALE: NTS

Lot Access-VTC (mud mats)

AGES Mud Mat Specifications

Each mat is made up of a double layer of high strength woven fabric that is stitched in such a way to encapsulate the reinforcing members that run perpendicular to the direction of traffic. These reinforcing ribs are secured individually within each pocket. There are approx. 24-26 pockets that each holds 1 bamboo post of approx. 2" diameter. This combination of reinforcing member and confining fabric result in a portable mat that can be rolled up for transport and ease of deployment. AGES Mud Mats can be used in construction site access, agriculture, golf & parks, other soft or sensitive ground condition areas where vehicle access is required.

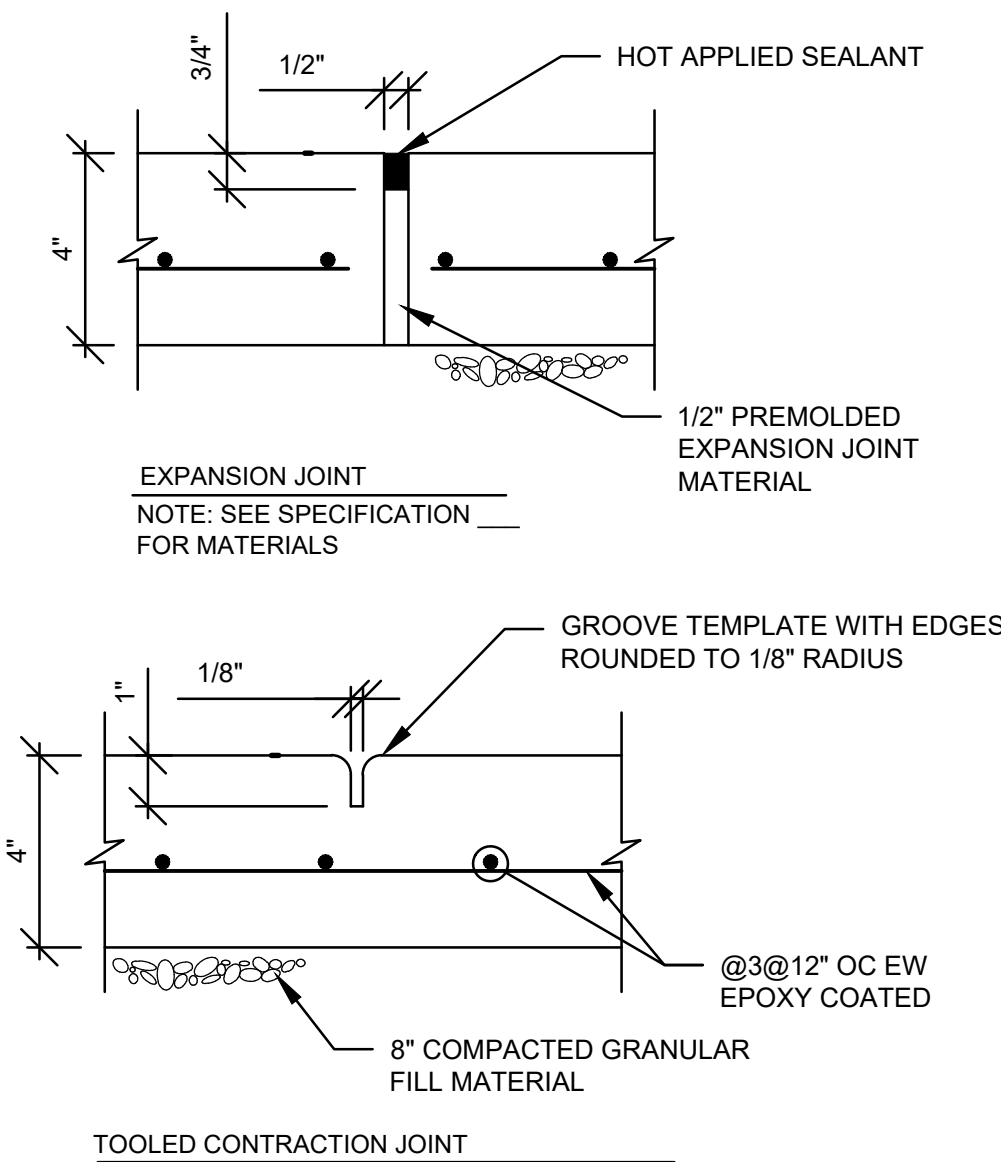


PROPERTY	TEST PROCEDURE	VALUE
Grab Tensile Strength	ASTM D4832	802.0 lbs
Apparent Breaking Elongation	ASTM D4832	25% / 18%
Trapezoid Tearing Strength	ASTM D4833	807 lbs
Puncture Resistance	ASTM D4833	374.3 lbs
Mullen Burst	ASTM D3795	466.85 PSI
Apparent Opening Size	ASTM D4751	70 US Sieve # 0.212mm
Constant Head Permeability	ASTM D4891	20.15 gpm/ft ²
Wick Wicks Tensile	ASTM D4895	688.7 lbs/ft
Material	Woven Geotextile	100% Polypropylene

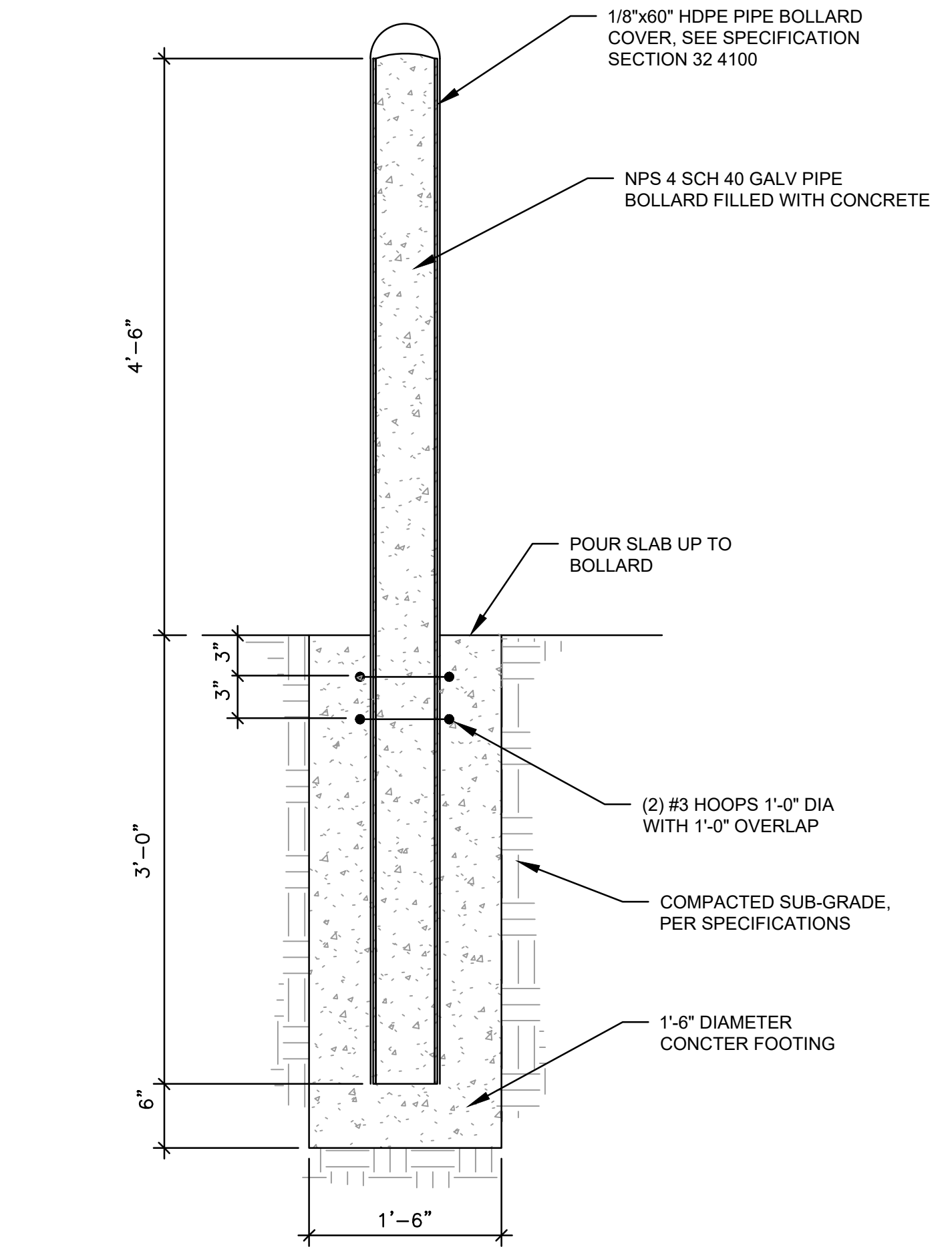
APPROXIMATE DIMENSIONS PER MAT	
Size Deployed (approx.)	15' x 8'
Shipping Size (rolled)	1.5 dia x 8.5 long
Weight (approx.)	100 lbs

*3' constant slope for each mat (Side connection and end connection straps)

Source: AGES Mud Mats

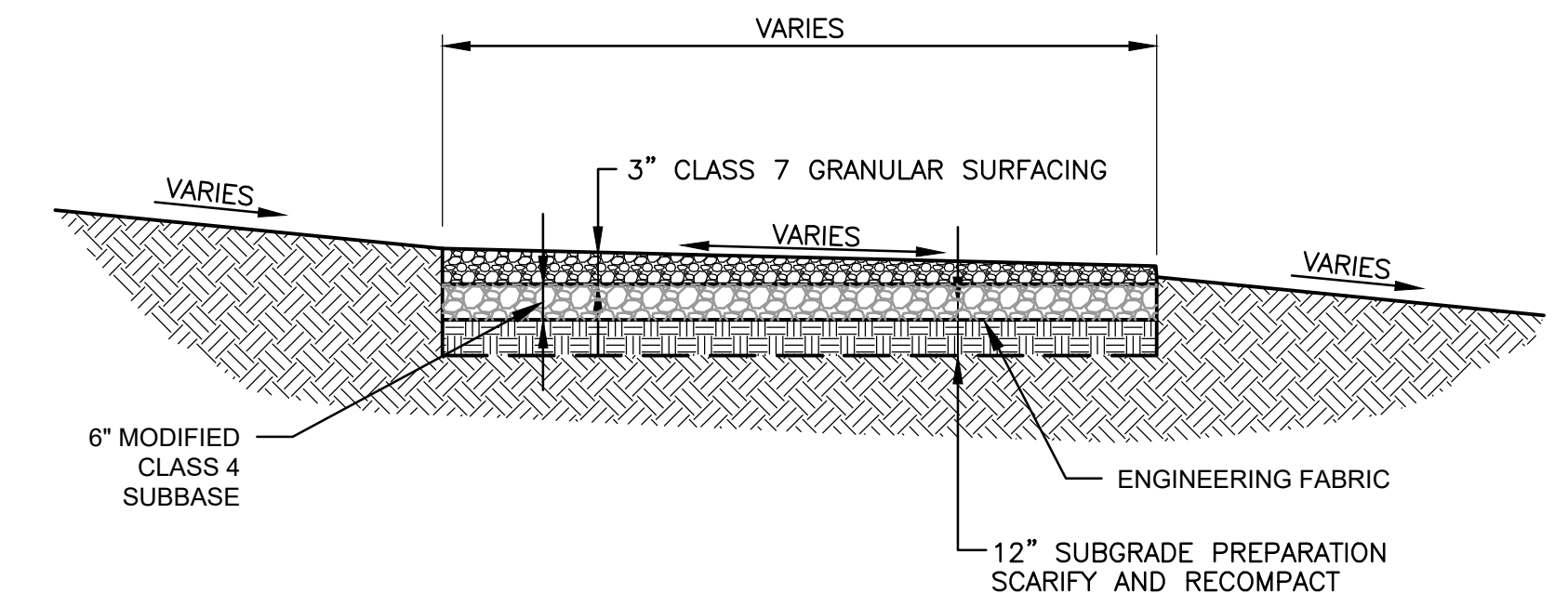


TOOLED CONTRACTION JOINT



PIPE BOLLARD DETAIL AT GRADE

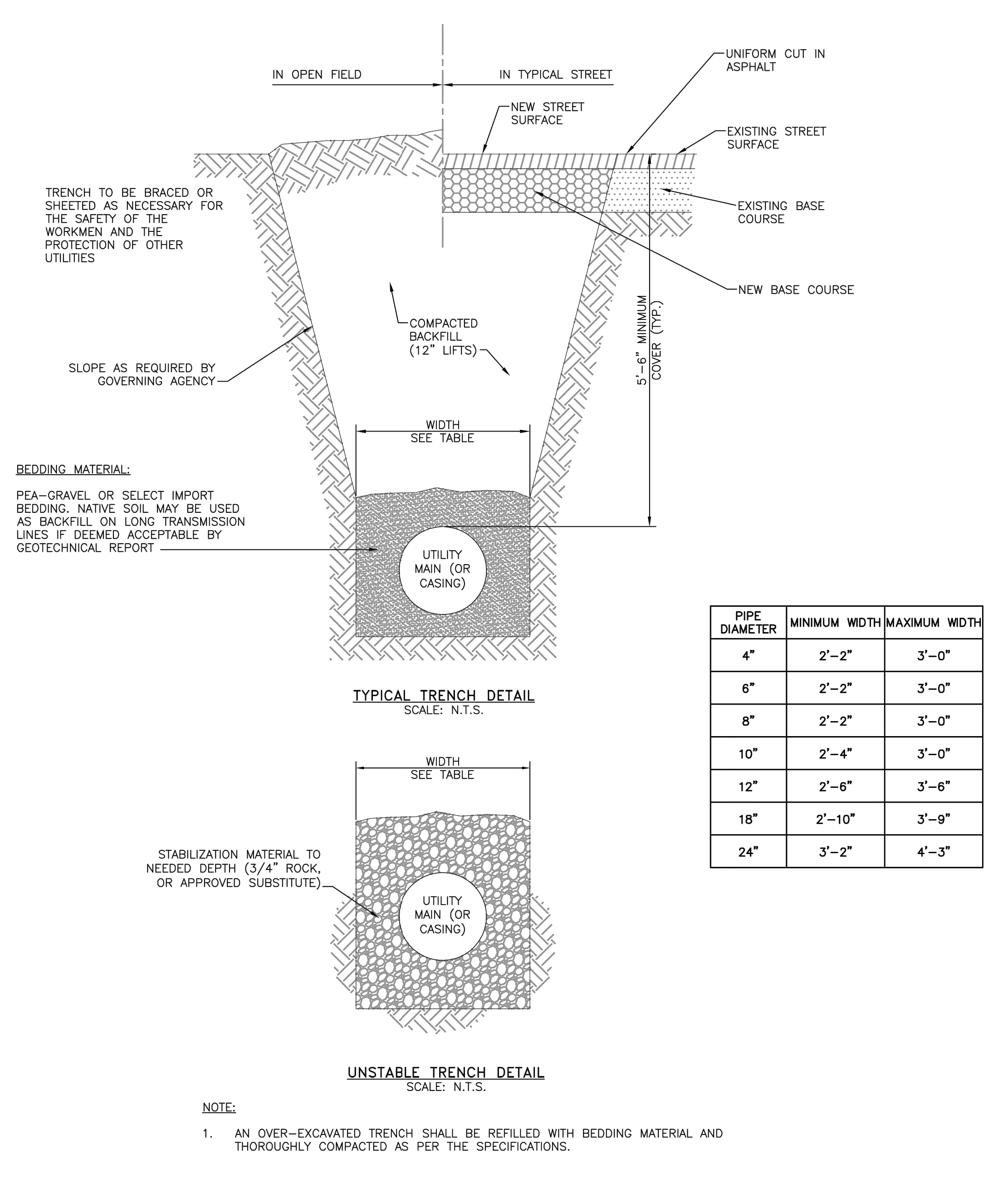
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- NOTE:**
- 1) 6" MODIFIED CLASS 4 SUBBASE SHALL BE PLACED AND COMPACTED IN TWO (2) 3" LIFTS.

3 TYPICAL GRAVEL DRIVEWAY SECTION

NO.	DATE	BY	REVISION DESCRIPTION

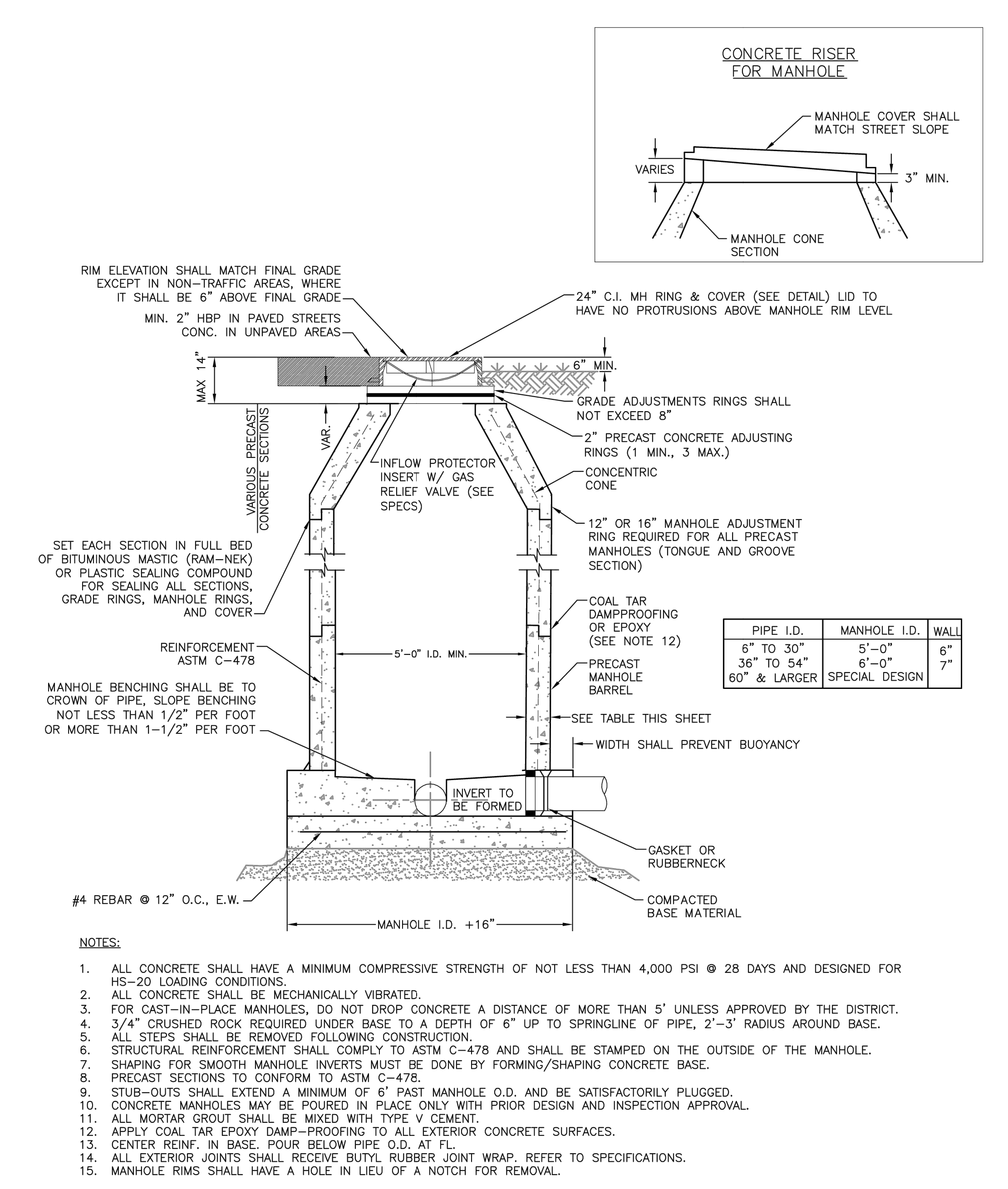


PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	2'-2"	3'-0"
6"	2'-2"	3'-0"
8"	2'-2"	3'-0"
10"	2'-4"	3'-0"
12"	2'-6"	3'-6"
18"	2'-10"	3'-9"
24"	3'-2"	4'-3"

NOTE:
1. AN OVER-EXCAVATED TRENCH SHALL BE REFILLED WITH BEDDING MATERIAL AND THOROUGHLY COMPACTED AS PER THE SPECIFICATIONS.

TYPICAL TRENCH CROSS SECTION

Drawn: GGM/SKG	Revised: DECEMBER 2021		WW-1
Date: MARCH 2011	Revised:		
Scale: N.T.S.	Revised:		



PIPE I.D.	MANHOLE I.D.	WALL
6" TO 30"	5'-0"	6"
36" TO 54"	6'-0"	7"
60" & LARGER	SPECIAL DESIGN	

- NOTES:**
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI @ 28 DAYS AND DESIGNED FOR HS-20 LOADING CONDITIONS.
 - ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
 - FOR CAST-IN-PLACE MANHOLES, DO NOT DROP CONCRETE A DISTANCE OF MORE THAN 5' UNLESS APPROVED BY THE DISTRICT.
 - 3/4" CRUSHED ROCK REQUIRED UNDER BASE TO A DEPTH OF 6" UP TO SPRINGLINE OF PIPE, 2'-3' RADIUS AROUND BASE.
 - ALL STEPS SHALL BE REMOVED FOLLOWING CONSTRUCTION.
 - STRUCTURAL REINFORCEMENT SHALL COMPLY TO ASTM C-478 AND SHALL BE STAMPED ON THE OUTSIDE OF THE MANHOLE.
 - SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING/SHAPING CONCRETE BASE.
 - PRECAST SECTIONS TO CONFORM TO ASTM C-478.
 - STUB-OUTS SHALL EXTEND A MINIMUM OF 6" PAST MANHOLE O.D. AND BE SATISFACTORILY PLUGGED.
 - CONCRETE MANHOLES MAY BE POURED IN PLACE ONLY WITH PRIOR DESIGN AND INSPECTION APPROVAL.
 - ALL MORTAR GROUT SHALL BE MIXED WITH TYPE V CEMENT.
 - APPLY COAL TAR EPOXY DAMP-PROOFING TO ALL EXTERIOR CONCRETE SURFACES.
 - CENTER REINF. IN BASE. POUR BELOW PIPE O.D. AT FL.
 - ALL EXTERIOR JOINTS SHALL RECEIVE BUTYL RUBBER JOINT WRAP. REFER TO SPECIFICATIONS.
 - MANHOLE RIMS SHALL HAVE A HOLE IN LIEU OF A NOTCH FOR REMOVAL.

PRECAST MANHOLE

Drawn: GGM/SKG	Revised: DECEMBER 2021		WW-2
Date: MARCH 2011	Revised:		
Scale: N.T.S.	Revised:		

HR GREEN Xref: xg-1-dh01-LS

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CAD DATE: 6/21/2024		
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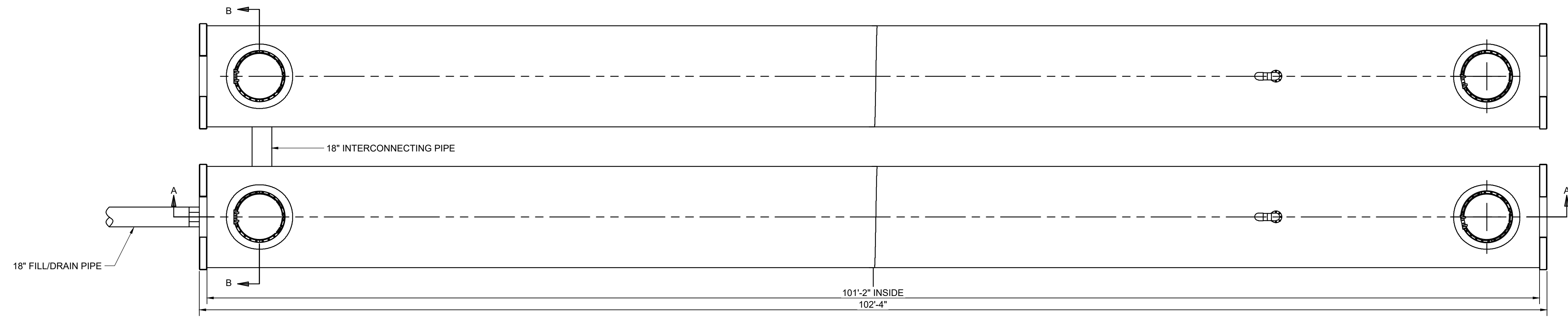
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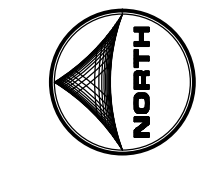
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SANITARY SEWER LIFT STATION
DESIGN & PERMITTING SERVICES
EL PASO COUNTY
PEYTON, CO

CIVIL
CIVIL DETAILS

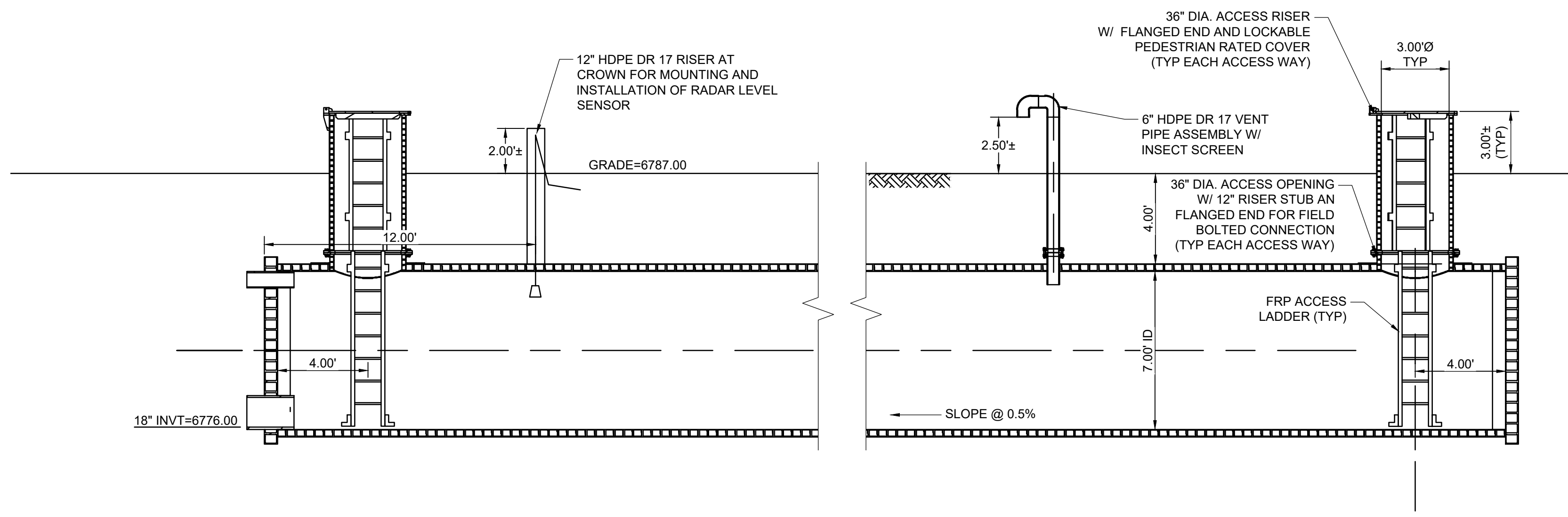
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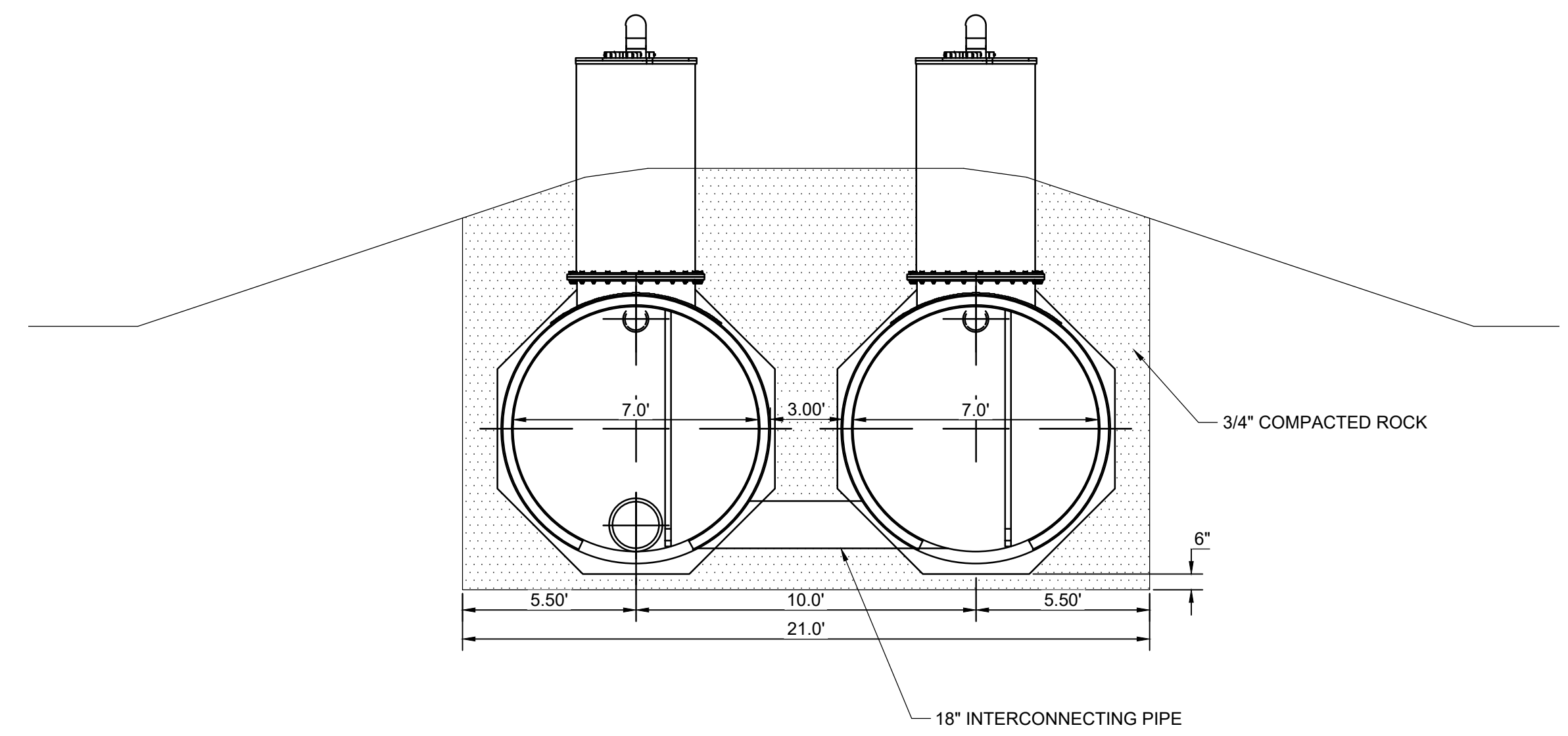
**1 PLAN VIEW
EMERGENCY STORAGE TANKS**
SCALE: NTS



- EMERGENCY STORAGE TANK NOTES:**
- EMERGENCY STORAGE TANKS SHALL BE HIGH DENSITY POLYETHYLENE, WEHOLITE RSC250 VESSELS MANUFACTURED BY INFRA PIPE SOLUTIONS OR ENGINEER APPROVED EQUAL.
 - EMERGENCY STORAGE TANKS SHALL HAVE A COMBINED MINIMUM USABLE VOLUME OF 51,600 GALLONS.
 - EACH TANK SHALL BE SHIPPED AS (2)-UNITS AND SHALL BE BUTT-END CONNECTED AND FIELD WELDED.
 - EMERGENCY STORAGE TANKS SHALL BE TESTED AND INSTALLED ACCORDING TO MANUFACTURER'S STANDARD INSTALLATION MANUAL AND OPERATING GUIDELINES.
 - MANUFACTURER SHALL PROVIDE QUALIFIED SERVICE REPRESENTATIVE TO PERFORM FUNCTIONS DESCRIBED IN SPECIFICATION 01 4000 AND TO SIGN THE CERTIFICATION OF PROPER INSTALLATION ATTACHED TO SECTION 01 4000.



**2 SECTION A-A
EMERGENCY STORAGE TANKS**
SCALE: NTS



**3 SECTION B-B
EMERGENCY STORAGE TANKS**
SCALE: NTS

HR GREEN Xref: xg1-1-dh01-Ls

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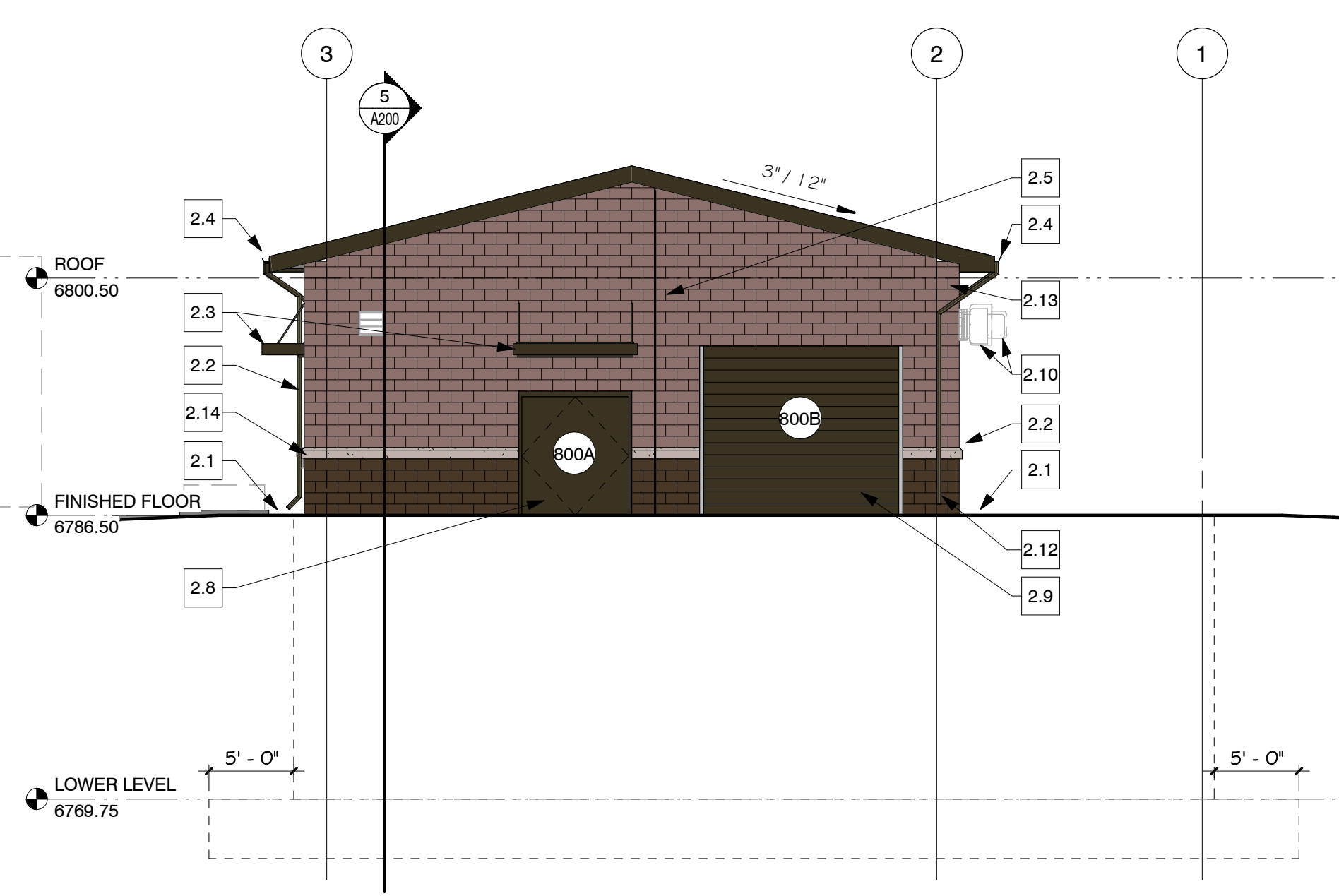


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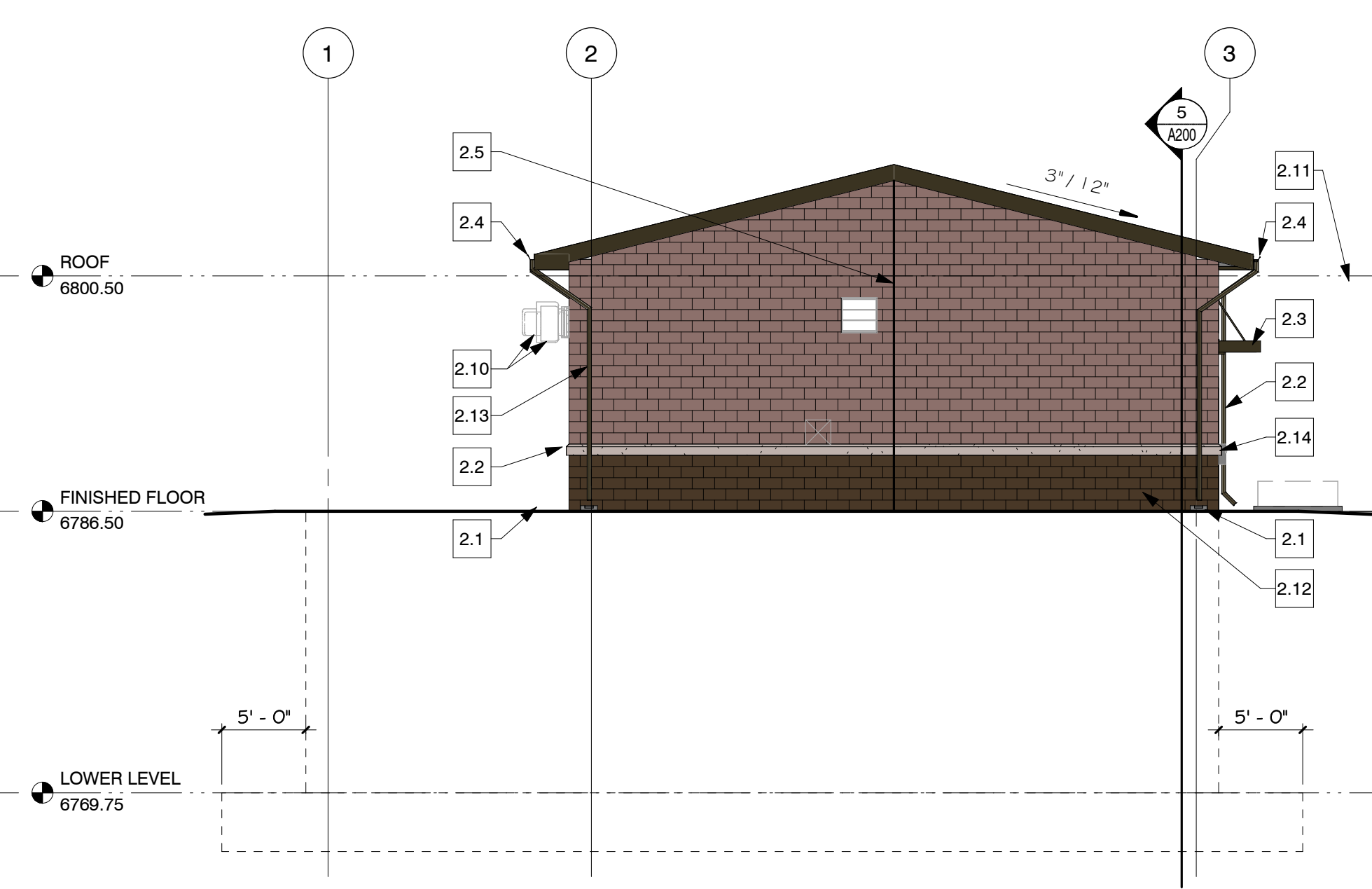


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EMERGENCY STORAGE TANK DETAILS

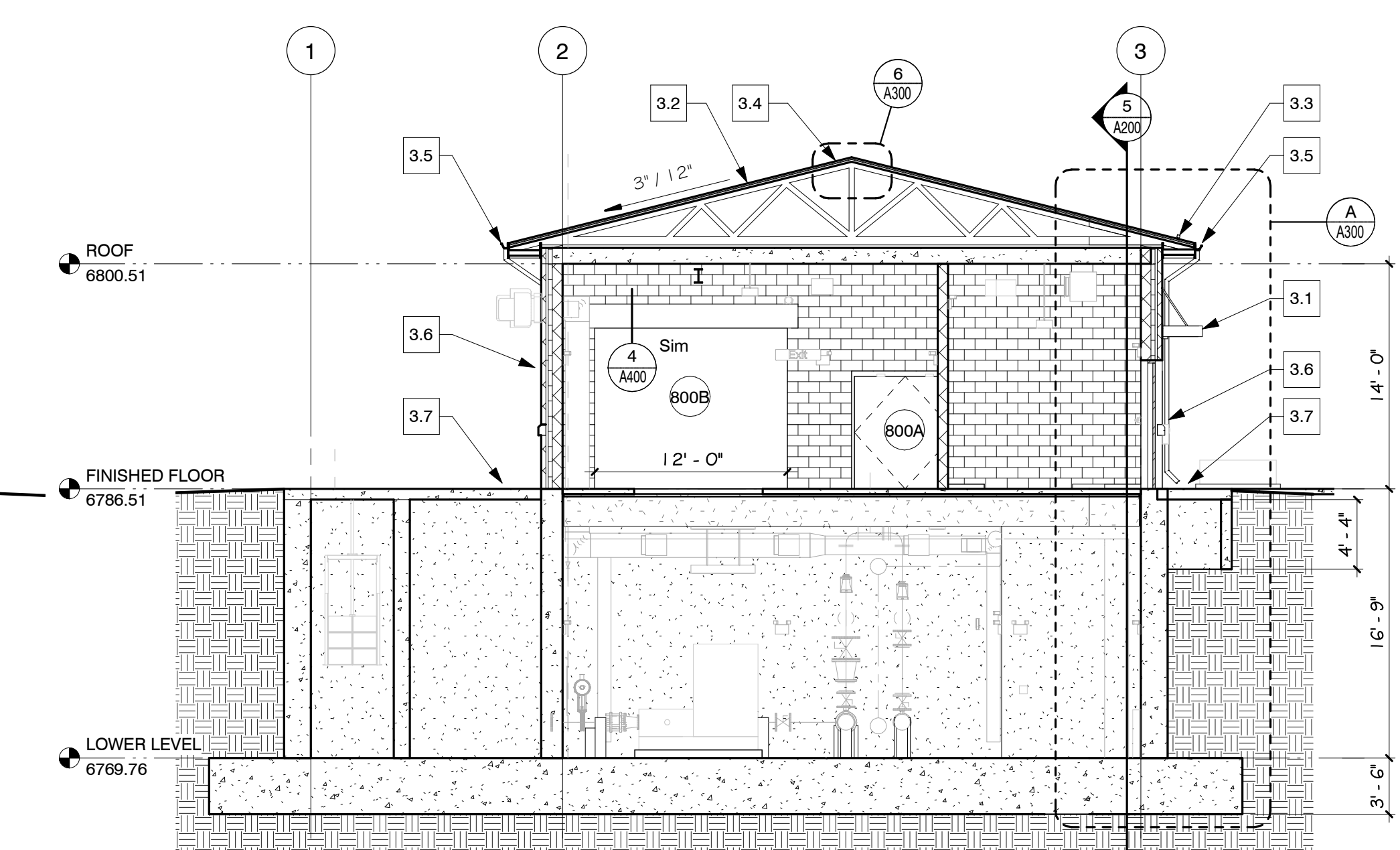
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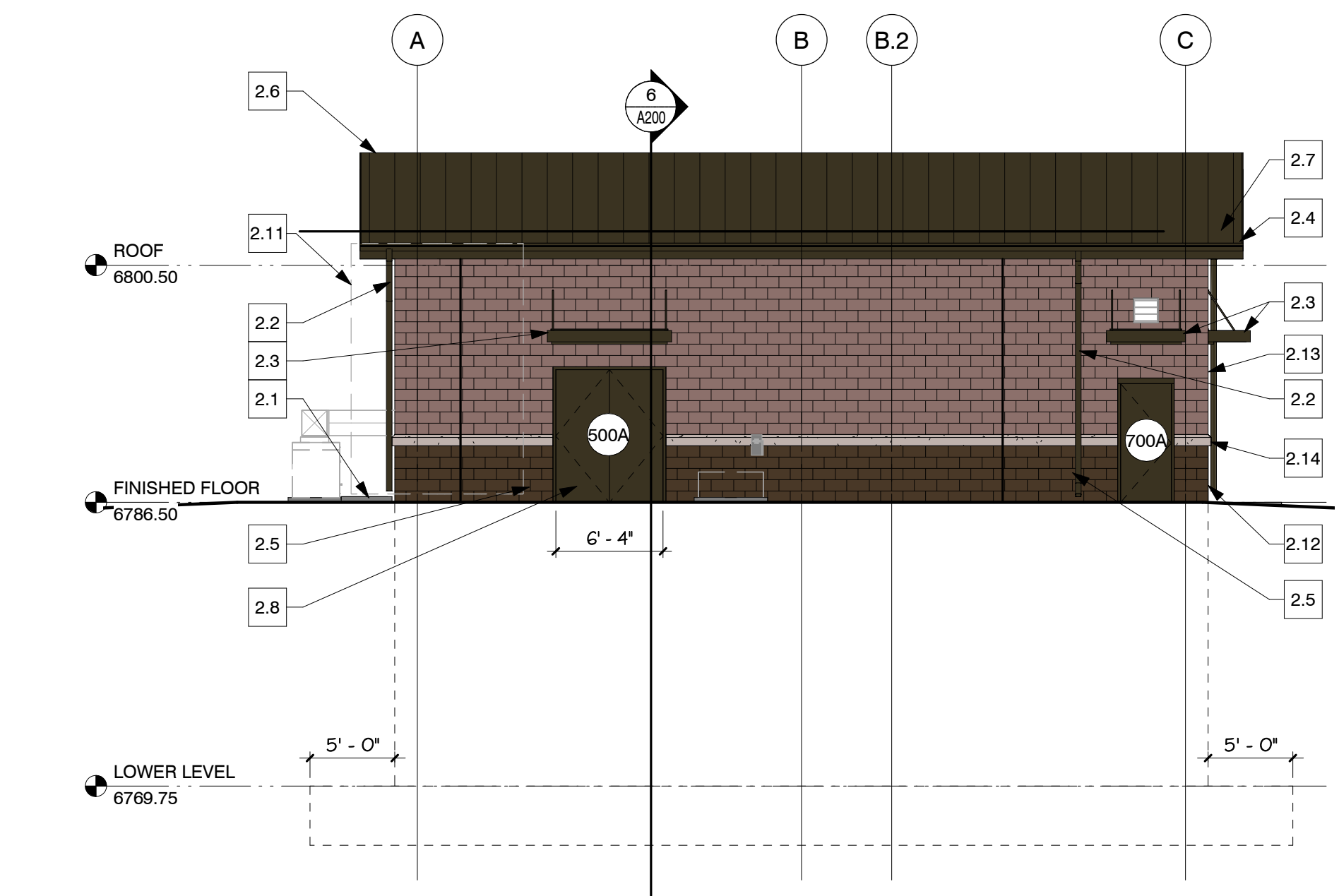
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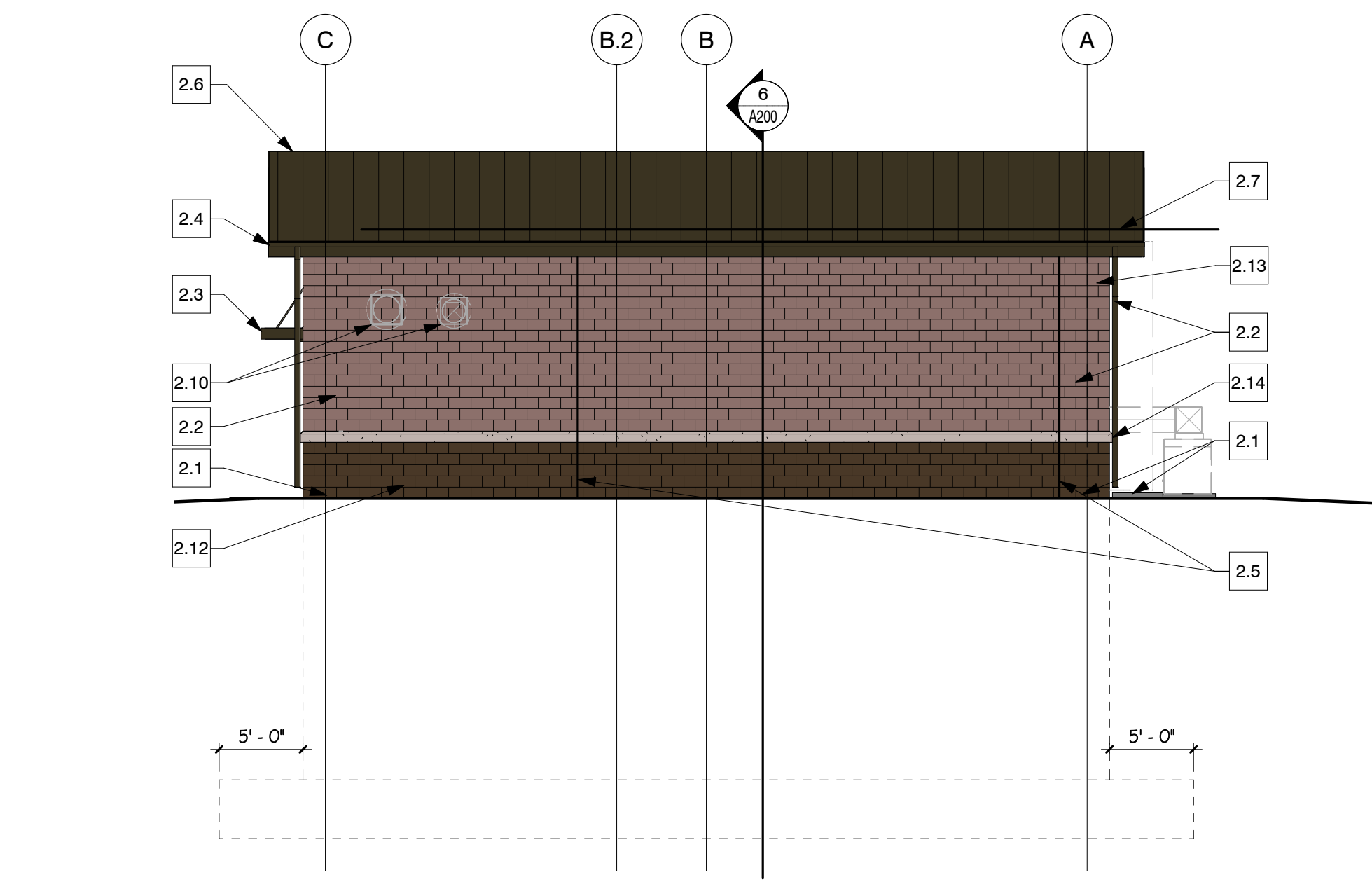
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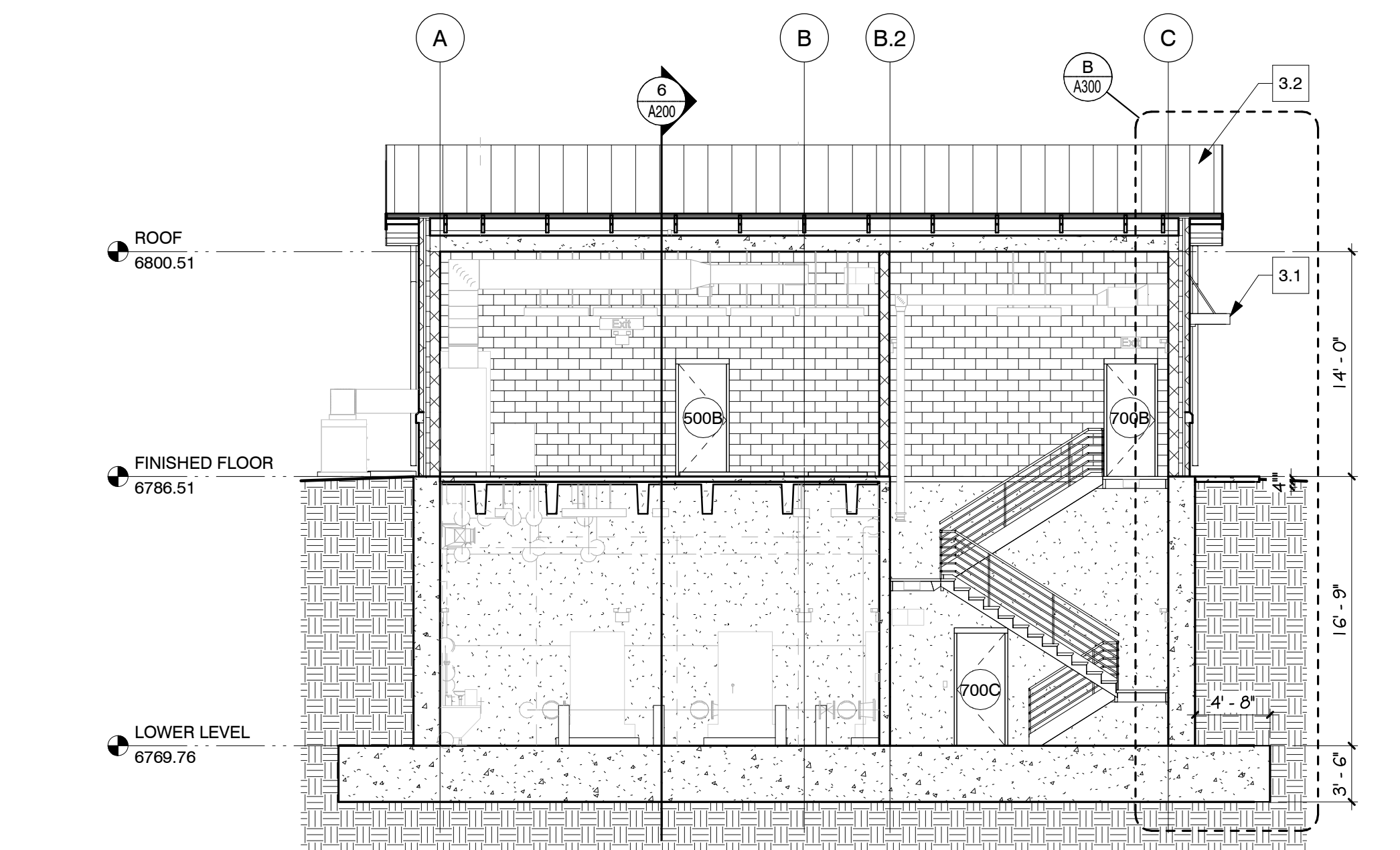
6. Building Section
1/8" = 1'-0"



2. East Elevation
1/8" = 1'-0"



4. West Elevation
1/8" = 1'-0"



5. Building Section
1/8" = 1'-0"

Keynote Legend - Elevations

2.1	PRE-CAST CONC. SPLASHBLOCK AT ALL DOWNSPOUT LOCS.
2.2	PRE-FIN. MTL. DOWNSPOUT
2.3	PRE-ENG. ALUM. CANOPY
2.4	PRE-FIN. MTL. GUTTER, SLOPE TO DOWNSPOUTS
2.5	VENEER CONTROL JOINT
2.6	PRE-FIN. STANDING SEAM MTL. ROOF
2.7	SNOW GUARD RAIL

Keynote Legend - Elevations

2.8	H.M. DOOR AND FRAME - FT.
2.9	PRE-FIN., CUSTOM COLOR, COILING OVERHEAD DOOR
2.10	WALL FANS - RE: MECH.
2.11	TRIOXYN STORAGE TANK - RE: PROCESS
2.12	CMU VENEER BLOCK TYPE ; 90% CDs
2.13	CMU VENEER BLOCK TYPE ;
2.14	CMU VENEER BLOCK TYPE ;

FILE: C:\Users\rmiller\Documents\2017 Grandview Reserve Lift Station_A21_Central_miller\VRMK.rvt
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DRAWN BY:	RM
APPROVED:	LH
JOB DATE:	02/02/24
JOB NUMBER:	22017

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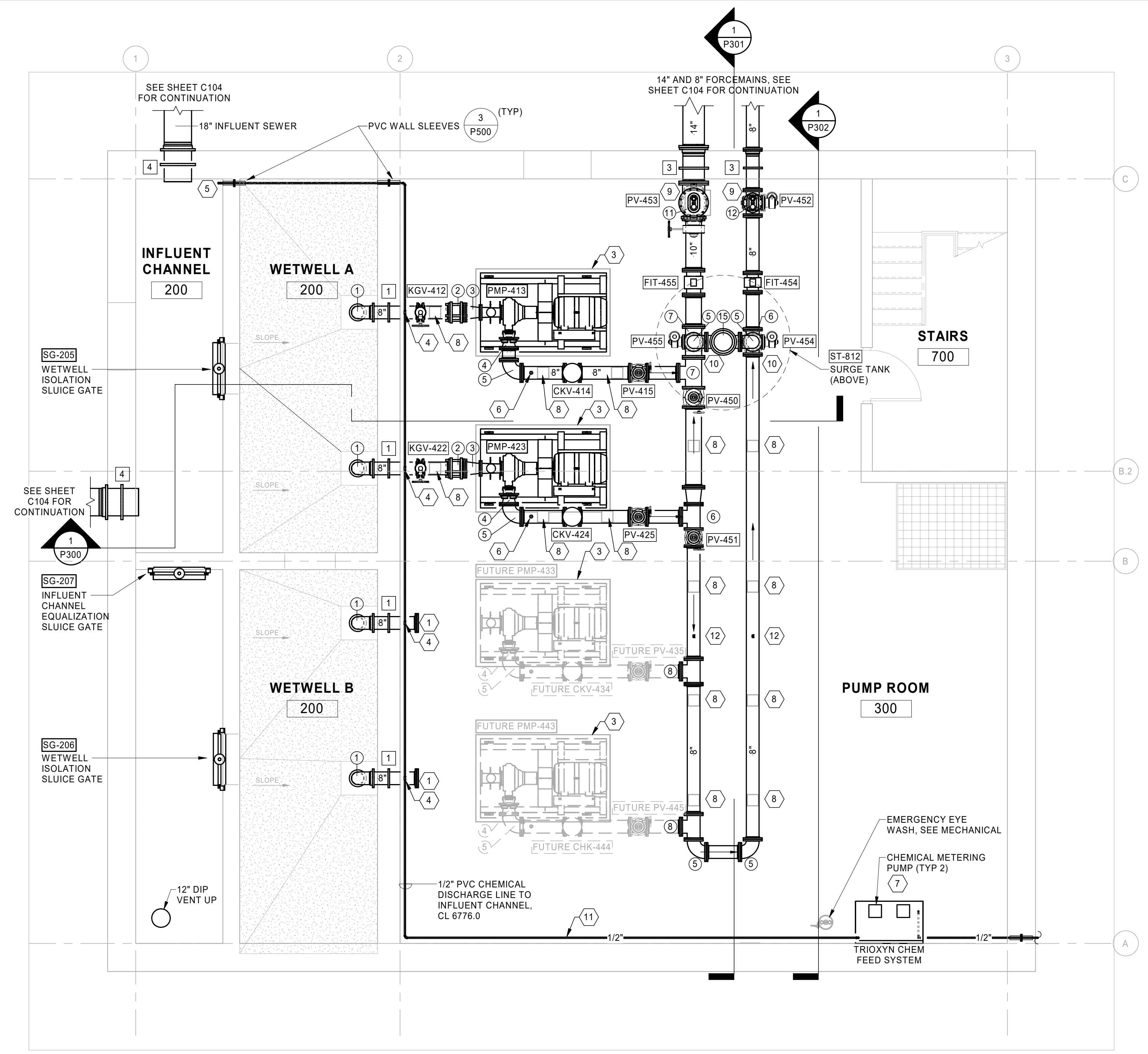
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D.R. HORTON
COLORADO SPRINGS, CO

ARCHITECTURAL
Exterior Elevations & Building Sections

SHEET NO.
A200



1 LOWER LEVEL PROCESS PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- EQUIPMENT SHOWN SHALL BE INSTALLED BY CONTRACTOR WITH ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION. COORDINATE LOCATION AND MOUNTING OF EQUIPMENT WITH EQUIPMENT MANUFACTURER. ALL ITEMS SHALL BE CONFIRMED WITH SHOP DRAWINGS.
- ALL INTERIOR SUCTION AND DISCHARGE PIPING SHALL BE PRESSURE TESTED TO 250 PSIG PER 22 1117. AFTER THE PIPING HAS BEEN CLEANED, EACH LEAK WHICH IS DISCOVERED WITHIN THE MAINTENANCE BONDING PERIOD SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

KEYNOTES: (#)

- PREPARE PIPING FOR FUTURE PUMP. INSTALL WALL SLEEVE CAST IN WETWELL WALL WITH SUCTION ELBOW AND FLARED PIPE INSTALLED 6" A.F.F. INSTALL 8" BLIND FLANGE ON DRYWELL SIDE OF WALL.
- PREPARE PIPING FOR FUTURE PUMP. INSTALL 8" BLIND FLANGE ON HEADER TEE.
- SEE STRUCTURAL FOR EQUIPMENT PADS.
- BRANCH OFF 1/2" PVC CHEMICAL DISCHARGE PIPE TO TIE INTO PUMP SUCTION LINE BELOW.
- 1/2" PVC CHEMICAL DISCHARGE PIPE PENETRATING WALL AT CL 6776.0. DOWN TURN 90-DEGREE ELBOW AND END OF PIPE TERMINATES AT EL 6773.50. SEE DETAIL SHEET P500 FOR CHEMICAL DISCHARGE CONNECTION TO SUCTION PIPING.
- 1/2" NPT WITH BALL VALVE FOR MANUAL BLOWOFF.
- METERING PUMPS, PIPING, AND ACCESSORIES TO BE SKID MOUNTED ON SHELF SKID WITH BACK PANEL FOR MOUNTING PIPING. REFER TO DETAIL ON P400 FOR SCHEMATIC.
- ADJUSTABLE PIPE SUPPORT. SEE SHEET S504.
- BASE BEND PIPE SUPPORT. SEE SHEET S504.
- CONCRETE PIPE SUPPORT. SEE SHEET S504.
- SEE HORIZONTAL PIPE SUPPORT DETAIL ON SHEET S504 FOR THE CHEMICAL LINE.
- PRESSURE GAUGE / TRANSDUCER. SEE DETAIL SHEET P500.

PIPE FITTING SCHEDULE (#)

NUMBER	DESCRIPTION
1	8" FLANGE AND FLARE
2	8" DISMANTLING JOINT
3	8"x6" ECCENTRIC REDUCER
4	8"x4" CONCENTRIC REDUCER
5	8" 90 DEGREE BEND
6	8"x8" TEE
7	10"x10"x8" REDUCING TEE
8	8"x8" TEE WITH BLIND FLANGE
9	10"x8" CONCENTRIC REDUCER
10	14"x10" CONCENTRIC REDUCER
11	14"x14" TEE WITH BLIND FLANGE AND 2" TAP FOR COMBINATION AIR VALVE
12	8"x8" TEE WITH BLIND FLANGE AND 2" TAP FOR COMBINATION AIR VALVE
13	8" SQUARE 90 DEGREE BASE BEND
14	10" SQUARE 90 DEGREE BASE BEND
16	12"x8" REDUCING TEE

WALL FITTING SCHEDULE

PLAN DESIGNATION	LOCATION	REMARKS
1	FLG x WS x FLG	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
2	FLG x WS x PE	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
3	FLG x WS x MJ	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
4	MJ x WS x PE	
5	MJ x WS x MJ	

- SCHEDULE NOTES:** PLANS CALL OUT FITTING NUMBER AS A BOX [] SYMBOL.
- A. ALL PIPING CONNECTIONS TO MJ SHALL BE RESTRAINED WITH APPROVED RETAINER GLAND.
 - B. ALL FLANGES SHALL BE SET OUT OF THE WALL WITH PROPER CLEARANCE TO INSTALL FLANGE BOLTS UNLESS SPECIFICALLY SHOWN ON DRAWINGS AS FLUSH WITH WALL. CONTRACTOR WILL NEED TO MODIFY FORMWORK APPROPRIATELY TO ACCOMMODATE WALL FITTINGS THAT EXTEND THROUGH WALL.
 - C. PLAIN END TO EXTEND 2" BEYOND WALL UNLESS NOTED OTHERWISE.

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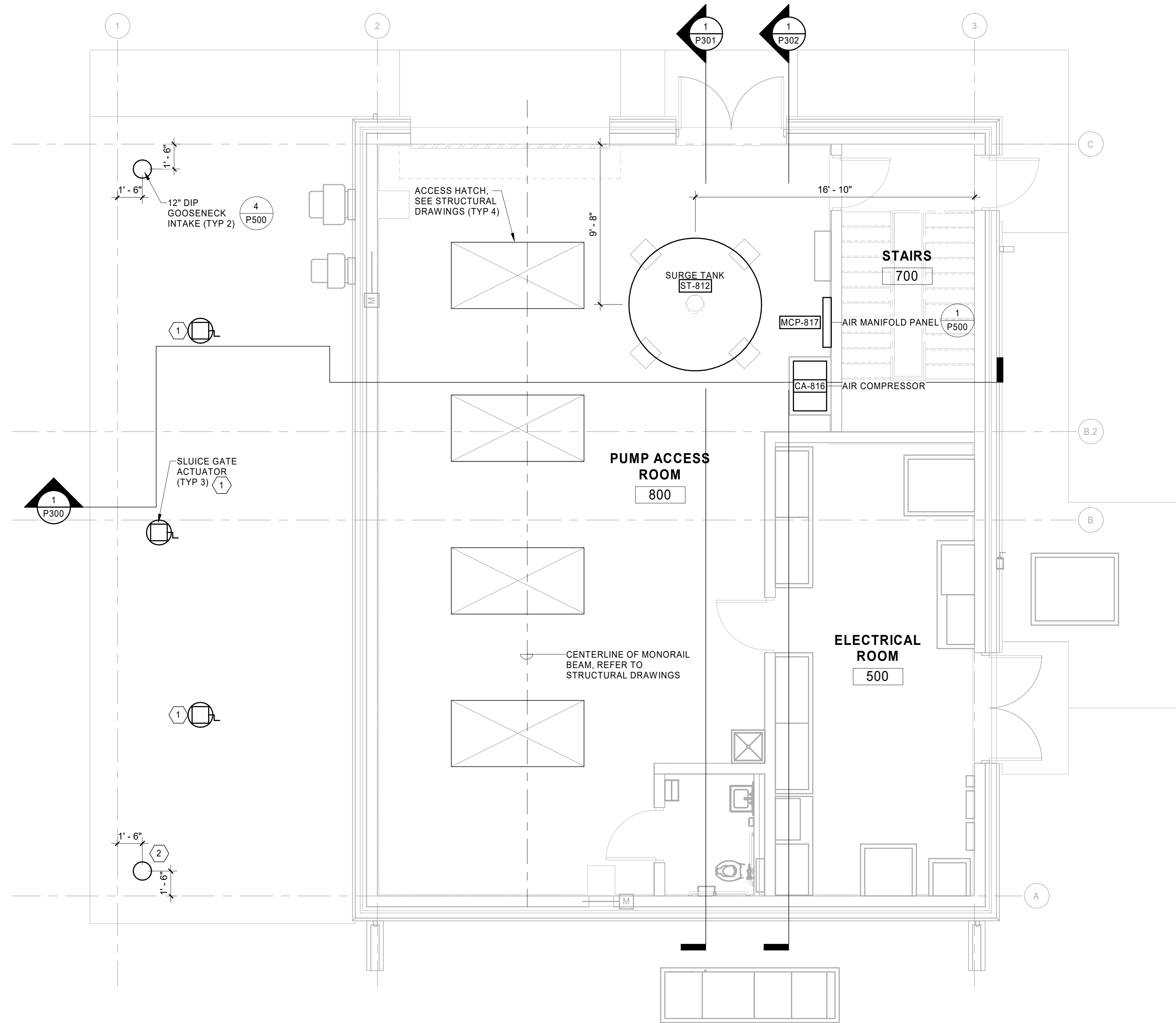
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 COLORADO SPRINGS, CO 80920
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 FAX: 713.965.0044

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PROCESS
 PUMP LEVEL PLAN

SHEET
P101

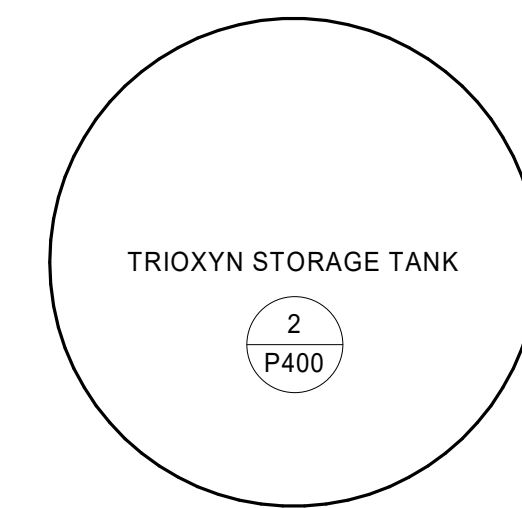


GENERAL NOTES:

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- ALL INTERIOR SUCTION AND DISCHARGE PIPING SHALL BE PRESSURE TESTED TO 250 PSIG PER 22 1117. AFTER THE PIPING HAS BEEN CLEANED, EACH LEAK WHICH IS DISCOVERED WITHIN THE MAINTENANCE BONDING PERIOD SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

KEYNOTES: (#)

- SLUICE GATE OPERATOR STANDS WITH HAND WHEEL. REFER TO SPECIFICATION SECTION 35 0610 AND 35 2016.29.
- FOR GOOSENECK VENT ON SOUTH OF INFLUENT CHANNEL, EXTEND PIPE DOWN INTO CHANNEL AND TERMINATE AT EL 6777.0.



1 GROUND LEVEL PROCESS PLAN
SCALE: 1/4" = 1'-0"



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PROCESS
 GROUND LEVEL PLAN

SHEET
P102

GENERAL NOTES:

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KEYNOTES: (#)

- SLUICE GATE OPERATOR STANDS WITH HAND WHEEL. REFER TO SPECIFICATION SECTION 35 2016.29.
- SEE STRUCTURAL DRAWINGS FOR EQUIPMENT PADS.
- 1/2" PVC CHEMICAL DISCHARGE LINE. SEE DETAIL FOR CHEMICAL DISCHARGE CONNECTION TO SUCTION PIPING.
- 1/2" NPT WITH BALL VALVE FOR MANUAL BLOWOFF.

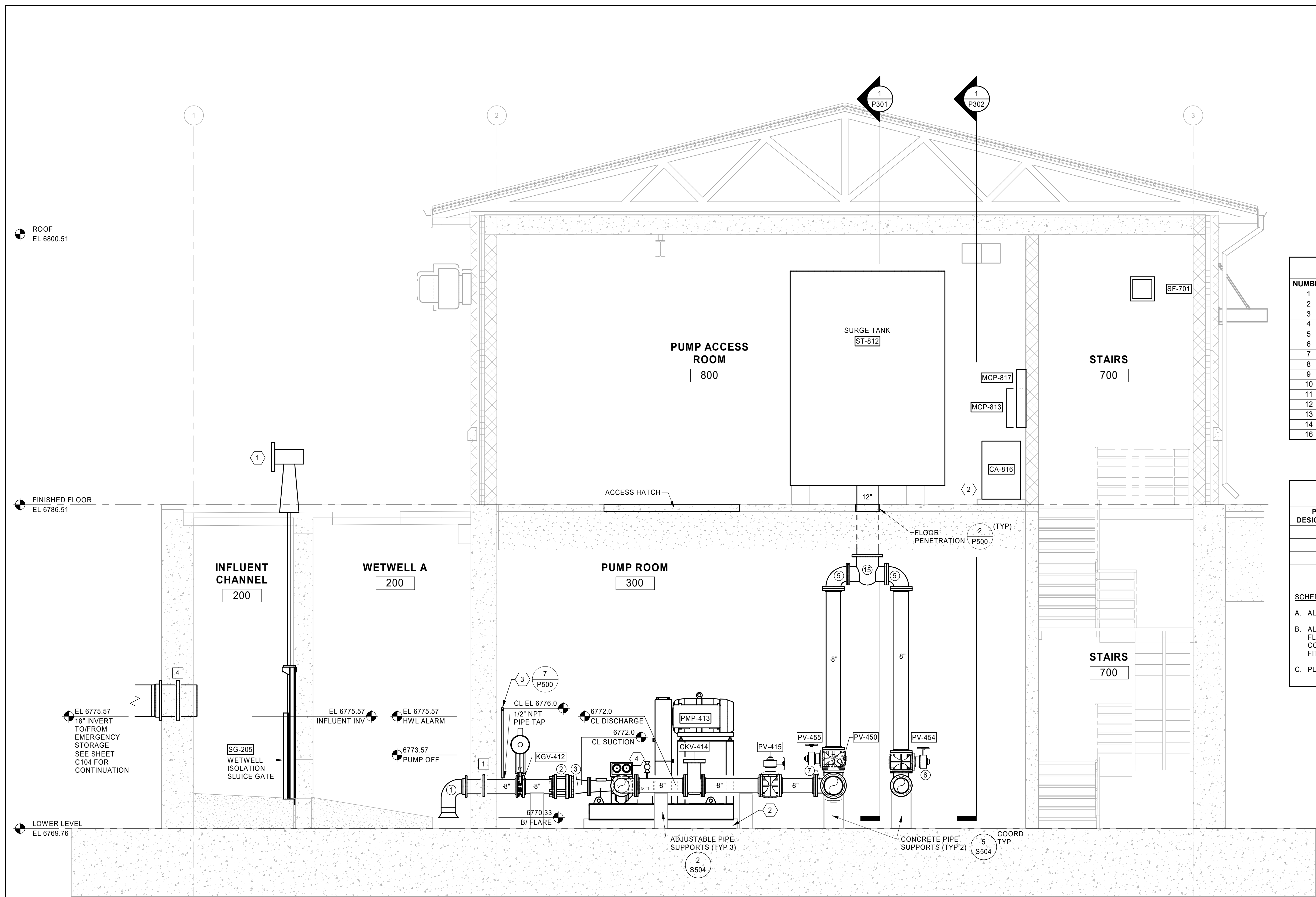
PIPE FITTING SCHEDULE (#)

NUMBER	DESCRIPTION
1	8" FLANGE AND FLARE
2	8" DISMANTLING JOINT
3	8"x6" ECCENTRIC REDUCER
4	8"x4" CONCENTRIC REDUCER
5	8" 90 DEGREE BEND
6	8"x8" TEE
7	10"x10"x8" REDUCING TEE
8	8"x8" TEE WITH BLIND FLANGE
9	10"x8" CONCENTRIC REDUCER
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13	8" SQUARE 90 DEGREE BASE BEND
14	10" SQUARE 90 DEGREE BASE BEND
16	12"x8" REDUCING TEE

WALL FITTING SCHEDULE

PLAN DESIGNATION	LOCATION	REMARKS
1	FLG x WS x FLG	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
2	FLG x WS x PE	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
3	FLG x WS x MJ	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
4	MJ x WS x PE	
5	MJ x WS x MJ	

- SCHEDULE NOTES:** PLANS CALL OUT FITTING NUMBER AS A BOX SYMBOL.
- ALL PIPING CONNECTIONS TO MJ SHALL BE RESTRAINED WITH APPROVED RETAINER GLAND.
 - ALL FLANGES SHALL BE SET OUT OF THE WALL WITH PROPER CLEARANCE TO INSTALL FLANGE BOLTS UNLESS SPECIFICALLY SHOWN ON DRAWINGS AS FLUSH WITH WALL. CONTRACTOR WILL NEED TO MODIFY FORMWORK APPROPRIATELY TO ACCOMMODATE WALL FITTINGS THAT EXTEND THROUGH WALL.
 - PLAIN END TO EXTEND 2" BEYOND WALL UNLESS NOTED OTHERWISE.



1 INFLUENT CHANNEL, WETWELL, AND PUMP ROOM SECTION
SCALE: 3/8" = 1'-0"

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 FAX: 713.965.0044

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PROCESS
 PROCESS SECTIONS

SHEET
P300

GENERAL NOTES:

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KEYNOTES: (#)

- SEE STRUCTURAL FOR EQUIPMENT PADS.
- PRESSURE GAUGE / TRANSDUCER. SEE DETAIL SHEET P500.

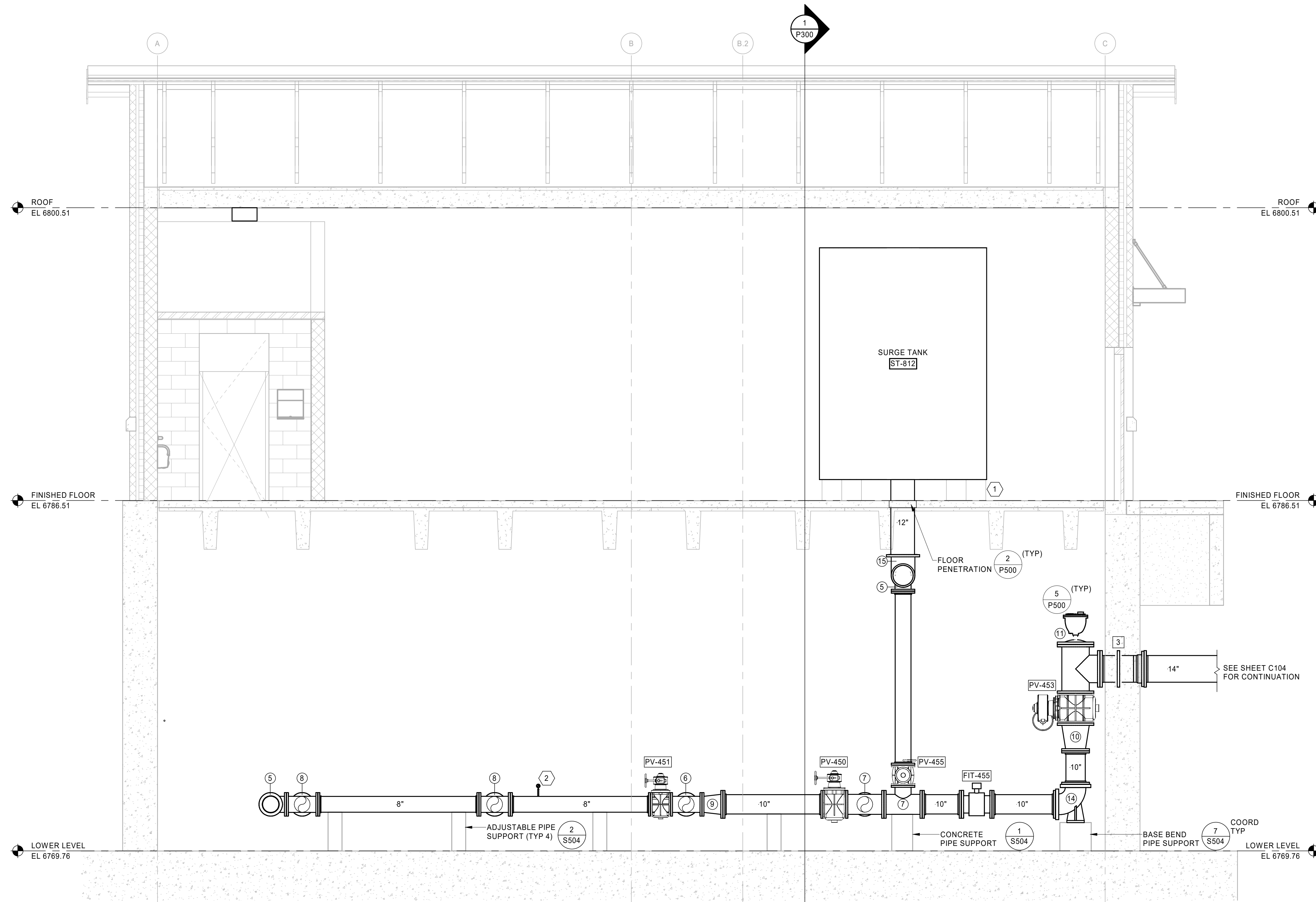
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WALL FITTING SCHEDULE

PLAN DESIGNATION	LOCATION	REMARKS
1	FLG x WS x FLG	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
2	FLG x WS x PE	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
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5	MJ x WS x MJ	

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1 PUMP ROOM PIPING SECTION - 14" HEADER
SCALE: 3/8" = 1'-0"

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 1975 RESEARCH PARKWAY | SUITE 230
 COLORADO SPRINGS, CO 80920
 PHONE: 719.300.4140
 FAX: 713.965.0044

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 PEYTON, COLORADO



PROCESS
 PROCESS SECTIONS

SHEET
P301

GENERAL NOTES:

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KEYNOTES: (#)

- SEE STRUCTURAL FOR EQUIPMENT PADS.
- PRESSURE GAUGE / TRANSDUCER. SEE DETAIL SHEET P500.

PIPE FITTING SCHEDULE (#)

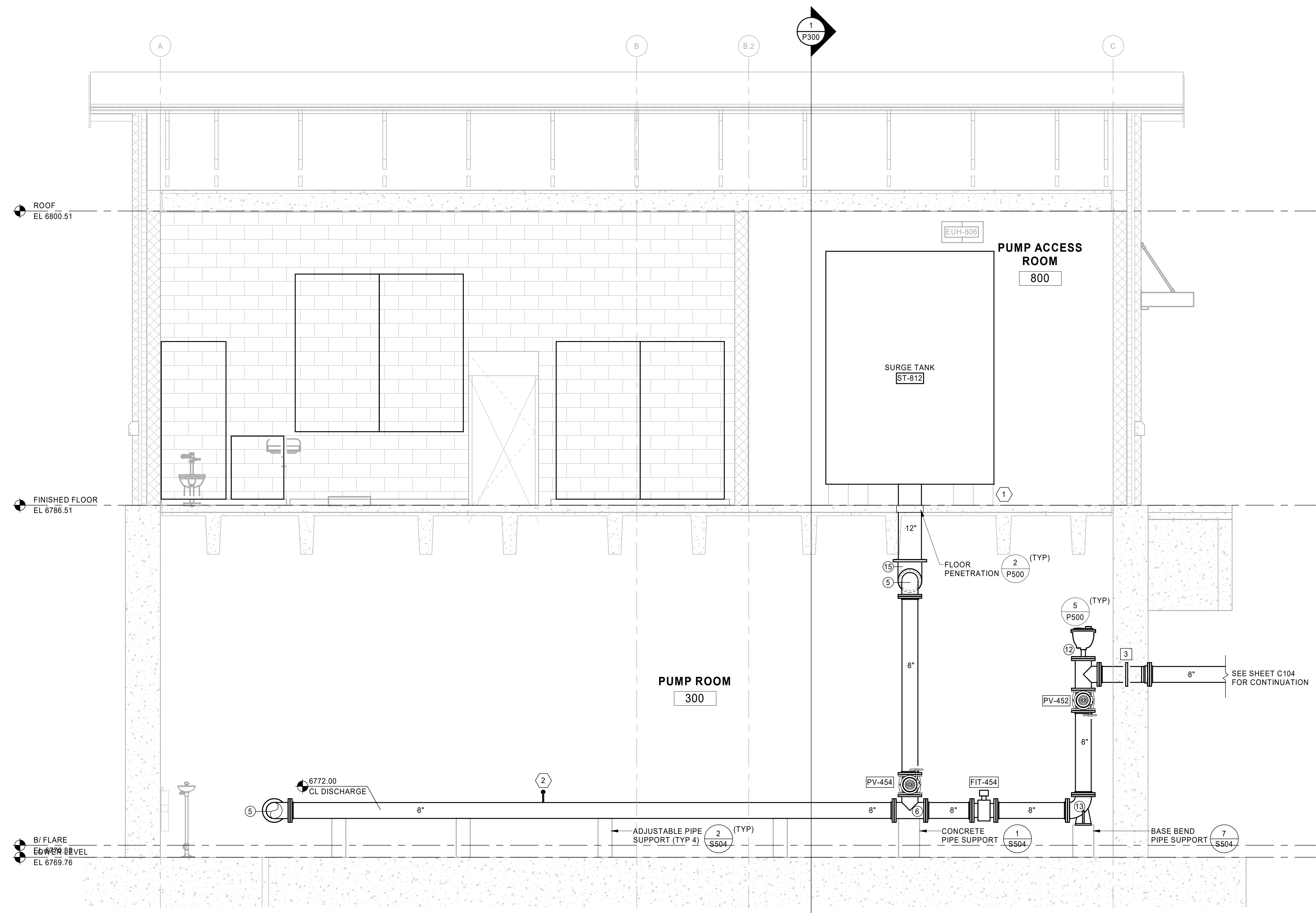
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16	12"x8" REDUCING TEE

WALL FITTING SCHEDULE

PLAN DESIGNATION	LOCATION	REMARKS
1	FLG x WS x FLG	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
2	FLG x WS x PE	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
3	FLG x WS x MJ	SET FLG TO ALLOW CLEARANCE TO INSTALL FLANGE BOLTS
4	MJ x WS x PE	
5	MJ x WS x MJ	

SCHEDULE NOTES: PLANS CALL OUT FITTING NUMBER AS A BOX SYMBOL.

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1 PUMP ROOM PIPING SECTION - 8" HEADER
SCALE: 3/8" = 1'-0"

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 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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SHEET
P302