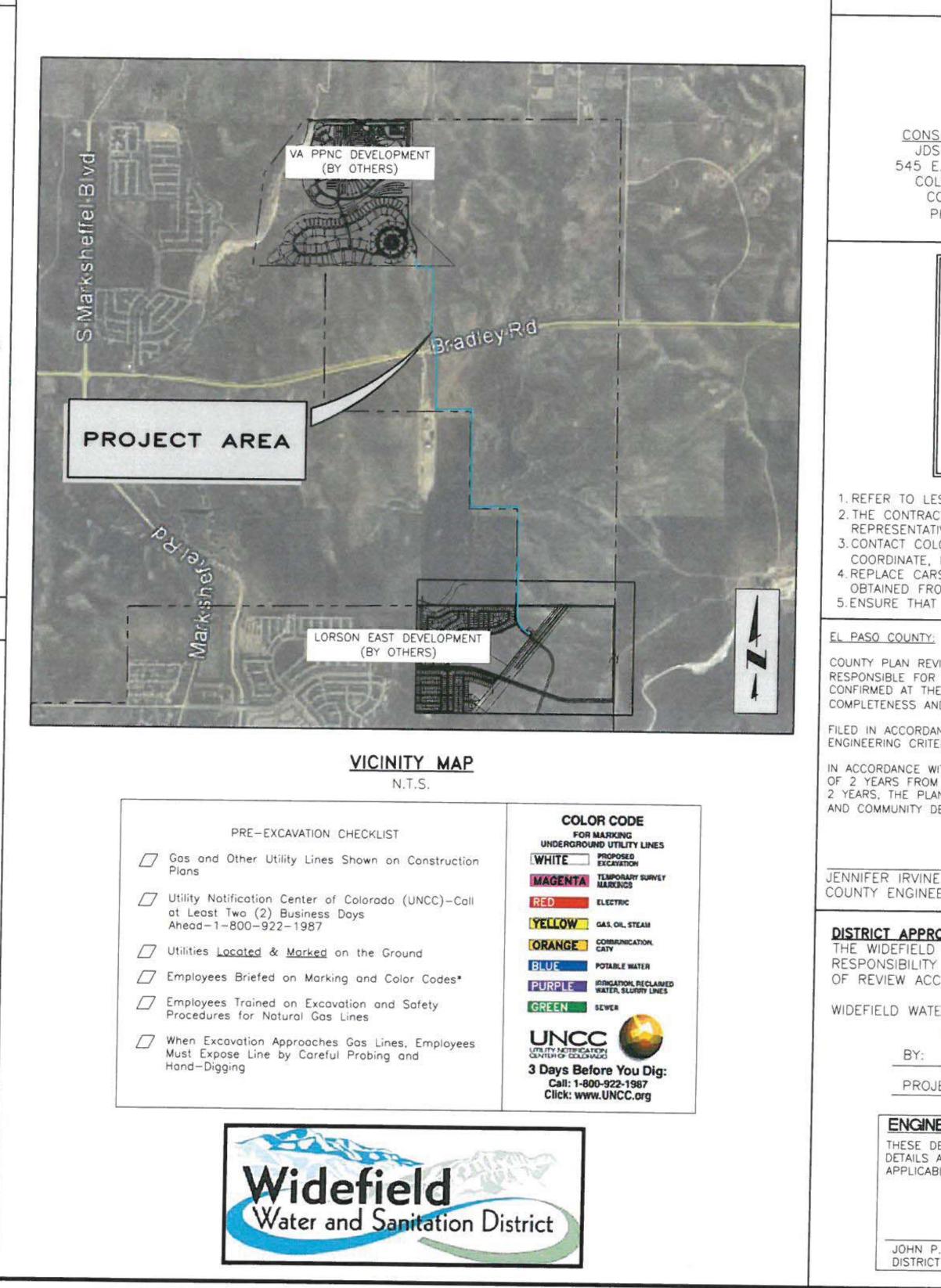
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PROPOSED CONTOURS-MAJOR POR EXISTING UTILITY POLE OE EXISTING OVERHEAD ELECTRIC LINE FOUND MONUMENT (SURVEY) BORE HOLE LOCATION (LORSON AREA) FO FO FO FO EXISTING FIBER OPTIC LINE WWW UTILITY MARKER UTILITY MARKER	RIGHT-OF-WAY WWSD BOUNDARY EXISTING EASEMENT PROPOSED EASEMENT PROPOSED EASEMENT (LORSON AREA) EXISTING FENCE EXISTING CONTOURS-MINOR EXISTING CONTOURS-MAJOR PROPOSED CONTOURS-MINOR PROPOSED CONTOURS-MAJOR		PROPOSED WATER LINE PROPOSED SILT FENCE PROPOSED EARTHEN BERM PROPOSED STRAW BALE BARRIER PROPOSED EROSION CONTROL LOG PROPOSED AIR/VAC VAULT EXISTING UTILITY POLE FOUND MONUMENT (SURVEY) BORE HOLE LOCATION

D WATER AND SANITATION DI AFFAIRS PIKES PEAK NATIONAL CEM WATER DELIVERY SYSTEM

EL PASO COUNTY, COLORADO



	*El Paso County Conditions: 1. These plans show some areas of "existing right-of-way" that have not yet been dedicated to or accepted by El Paso County. The District and the
STRICT	subdivider shall note that the future right-of-way shall be dedicated in accordance with all provisions of the EPC Land Development Code and the EPC Engineering Criteria Manual (please note that among other requirements,
IETERY	right-of-way dedications shall be free of any encumbrances per Section 8.5 of the El Paso County Land Development Code).
	2. Steel casing for the waterline bore across Bradley Road right-of-way shall extend the entire width of the ROW.
SIGNATURE E	3. The WWSD shall provide as-built drawings to EPC in accordance with the EPC Engineering Criteria Manual.
8 COLOR CONTACT: BRANDO	ATER AND SANITATION DISTRICT 495 FONTAINE BLVD ADO SPRINGS, CO 80925 ON BERNARD, WATER DEPT MANAGER NE: (719) 464-2051
SULTING/DESIGN/I&C ENGINEER S-HYDRO CONSULTANTS, INC. E. PIKES PEAK AVE., SUITE 300 LORADO SPRINGS, CO 80903 ONTACT: JOHN MCGINN, PE PHONE: (719) 227-0072	ELECTRICAL CHAVEZ, TIFFANY & AYERS 119 W CUCHARRAS ST COLORADO SPRINGS, CO 80903 CONTACT: JOSH AYERS, PE PHONE: (719) 636-0021×3
	RADO SPRINGS UTILITIES PLAN APPROVAL
APPROVED BY:	· / · · · · · · · · · · · · · · · · · ·
	<u>W194</u> WORK ORDER NUMBER: <u>3239354</u> 1 OF 3
APPROVAL EXPIRES ONE (1) YE THESE PLANS FOR REVIEW AND	AR FROM THE DATE ABOVE AND RESUBMITTAL OF APPROVAL IS REQUIRED IF CONSTRUCTION DOES GIN DURING THIS PERIOD.
ORADO SPRINGS UTILITIES PRIOR T PLEASE CALL (719) 668-4667. SONITE WATER MARKERS OVER PIP OM COLORADO SPRINGS UTILITIES	AN 48-HOUR PRIOR NOTICE AND A COLORADO SPRINGS UTILITIES' E ANY ACTIVITIES WITHIN SDS EASEMENT. O ANY POTHOLING OR CONSTRUCTION WITHIN SDS EASEMENT. TO ELINE AFTER CONSTRUCTION ADDITIONAL MARKERS CAN BE
	CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT
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ENA MANOAL AS AMENDED.	EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND
NS WILL NEED TO BE RESUBMITTED F	RUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE OR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING
By:Jennifer Irvine, Coun	ty Engineer *Conditions above
E, P.E Date:01/08/2018 ER El Paso County Department of I	Public Works
OVALS WATER AND SANITATION DISTRIC FOR THE DESIGN. THE WIDEFIE CORDINGLY.	T RECOGNIZES THE DESIGN ENGINEER AS HAVING LD WATER AND SANITATION DISTRICT HAS LIMITED ITS SCOPE
ER AND SANITATION DISTRICT DE	
IECT NO. 172221 P.	DATE: 12/20/2017
EER'S STATEMENT	ERE PREPARED CHIDER MY DIRECTION AND SUPERVISION. SAID
P. MCGINN, P.E. #19534	DATE DATE
/	

CDR 18-001

	SHEET INDEX
SHEET NUMBER	DESCRIPTION
	COVER
<u>GENERAL</u> G1	SHEET INDEX AND GENERAL NOTES
PROCESS P1 P2 P3	OVERALL HYDRAULIC PROFILE VA PUMP STATION: PROCESS AND INSTRUMENTATION DIAGRAM RH BOOSTER PUMP STATION: PROCESS AND INSTRUMENTATION DIAGRAM
$\begin{array}{c} \underline{CIVIL}\\ C1\\ C2\\ C3\\ C4\\ C5\\ C6\\ C7\\ C8\\ C8.1\\ C9\\ C10\\ C11\\ C12\\ C13\\ C14\\ C14.1\\ C15\\ C16\\ C17\\ C18\\ C18.1\\ C19\\ C20\\ C21\\ C22\\ C23\\ C24\\ C25\\ C26\\ C27\\ \end{array}$	OVERALL SITE PLAN PPNC EQ SURCE TANK: SITE, GRADING AND EROSION CONTROL PLAN RH BOOSTER PUMP STATION: SITE, GRADING AND EROSION CONTROL PLAN OVERALL EROSION CONTROL NOTES AND DETAILS SCHEDULE A: PLAN AND PROFILE STA 10+00 TO 19+50 SCHEDULE A: PLAN AND PROFILE STA 19+50 TO 29+50 SCHEDULE A: PLAN AND PROFILE STA 29+50 TO 40+50 SCHEDULE A: PLAN AND PROFILE STA 40+50 TO 53+34 SCHEDULE A: EROSION CONTROL PLAN SCHEDULE B: PLAN AND PROFILE STA 10+00 TO 36+50 SCHEDULE B: PLAN AND PROFILE STA 36+50 TO 56+50 SCHEDULE B: PLAN AND PROFILE STA 36+50 TO 108+50 SCHEDULE B: PLAN AND PROFILE STA 10+00 TO 134+50 SCHEDULE B: PLAN AND PROFILE STA 10+50 TO 134+50 SCHEDULE B: PLAN AND PROFILE STA 10+50 TO 134+50 SCHEDULE B: PLAN AND PROFILE STA 108+50 TO 134+50 SCHEDULE B: PLAN AND PROFILE STA 184+50 TO 188+00 SCHEDULE C: PLAN AND PROFILE STA 184+50 TO 198+50 SCHEDULE C: PLAN AND PROFILE STA 184+50 TO 198+50 SCHEDULE C: PLAN AND PROFILE STA 192+50 TO 198+50 SCHEDULE C: PLAN AND PROFILE STA 198+50 TO 203+87 SCHEDULE C: PLAN AND PROFILE STA 198+50 TO 203+87 SCHEDULE C: EROSION CONTROL PLAN PPNC EQ SURGE TANK SITE DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS CIVIL DETAILS
<u>MECHANICAL</u> M1 M2 M3 M4	VA PUMP STATION: MECHANICAL FLOOR PLAN/SCHEDULE VA PUMP STATION: MECHANICAL SECTIONS RH BOOSTER PUMP STATION: MECHANICAL PLAN/SECTIONS/SCHEDULE/DETAIL VA PUMP STATION: PIPE PENETRATION FLOOR PLAN AND SECTIONS
<u>ELECTRICAL</u> E1 E2 E3	VA PUMP STATION: ELECTRICAL PLAN RH BOOSTER PUMP STATION: ELECTRICAL PLAN VA PUMP STATION: CONDUIT PLAN

GENERAL NOTES

- 1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WIDEFIELD WATER AND SANITATION DISTRICT SPECIFICATIONS. COMPACTION REQUIREMENTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE WIDEFIELD WATER AND SANITATION DISTRICT OR A HIGHER STANDARD IS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION. CONTRACTOR IS ALSO REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE WIDEFIELD WATER AND SANITATION DISTRICT. THE WIDEFIELD WATER AND SANITATION DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS. WIDEFIELD WATER AND SANITATION DISTRICT CONSTRUCTION SPECIFICATIONS MAY BE OBTAINED FROM THEIR WEBSITE: www.wwsdonline.com
- 3. ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHEYLENE TUBING, BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.
- 4. ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING NO. 6 WIRE WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 1 LB. MAGNESIUM ANODES AT EVERY FITTING.
- 5. PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
- 6. THE CONTRACTOR IS REQUIRED TO NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY WWSD A WEEK IN ADVANCE OF ANY REQUIRED BASIN OR UTILITY SHUTDOWNS.
- 7. THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
- 8. THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE-INS. CONTRACTOR SHALL NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.
- 9. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
- 10. ANY WATER UTILITY MATERIAL REMOVED AND NOT REUSED SHALL BE RETURNED TO THE WIDEFIELD WATER AND SANITATION DISTRICT IF THE DISTRICT SO REQUESTS.
- 11. THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY EITHER THE CONTRACTOR OR THE WIDEFIELD WATER AND SANITATION DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
- 12. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING EFFORTS. ANY PUMPING OR BYPASS OPERATIONS MUST BE REVIEWED AND APPROVED PRIOR TO EXECUTION BY BOTH THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER. CONTRACTOR SHALL REFERENCE APPENDIX A OF THE TECHNICAL SPECIFICATIONS.
- 13. CONTRACTOR MUST REPLACE OR REPAIR ANY DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- 14. ALL SITE UTILITIES AND IMPROVEMENTS SHALL HAVE AS "AS-BUILT" PLANS PREPARED AND APPROVED PRIOR TO FINAL ACCEPTANCE BY THE WIDEFIELD WATER AND SANITATION DISTRICT.
- 15. PRIOR TO CONSTRUCTION, A <u>PRE-CONSTRUCTION CONFERENCE IS REQUIRED</u> A MINIMUM OF 72 HOURS IN ADVANCE OF COMMENCEMENT OF WORK.
- 16. EL PASO COUNTY STORMWATER AND/OR EROSION CONTROL PERMITS AND CDPHE STORMWATER CONSTRUCTION ACTIVITY AND DEWATERING PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PRIOR TO CONSTRUCTION.
- 17. WHERE EXISTING SANITARY SEWER OR WATER FACILITIES ARE SHOWN ON THE DRAWINGS TO BE ABANDONED, OR WHERE EXISTING ABANDONED FACILITIES ARE DISCOVERED DURING CONSTRUCTION, CONTRACTOR SHALL ABANDON THESE FACILITIES AS FOLLOWS:
 - A. SEAL PIPE ENDS WITH A MINIMUM 2-FOOT-THICK GROUT PLUG.

B. REMOVE EXISTING MANHOLES TO AT LEAST 2 FEET BELOW FINISHED GRADE. PROVIDE A MINIMUM 6-INCH HOLE IN THE BOTTOM OF THE STRUCTURE AND FILL THE REMAINING PORTION WITH 3/4" CRUSHED ROCK.

C. SALVAGE ALL CASTINGS, HYDRANTS, AND OTHER MATERIAL AND DELIVER THEM TO A LOCATION DETERMINED BY WWSD. MATERIAL NOT REQUESTED BY THE DISTRICT SHALL BE DISPOSED OF BY THE CONTRACTOR.

18. AERIAL BASEMAP IMAGERY, IF DEPICTED HEREIN, IS NOT TO SCALE AND IS SHOWN FOR CONCEPTUAL REFERENCE ONLY.

ABBREVIATIONS

WWSD VA PPNC RHBPS SDS

PP

ΕX

SCH

STA

FNPT

MNPT

FL

FΗ

ΤB

MJ

ΒV

GV

SOV

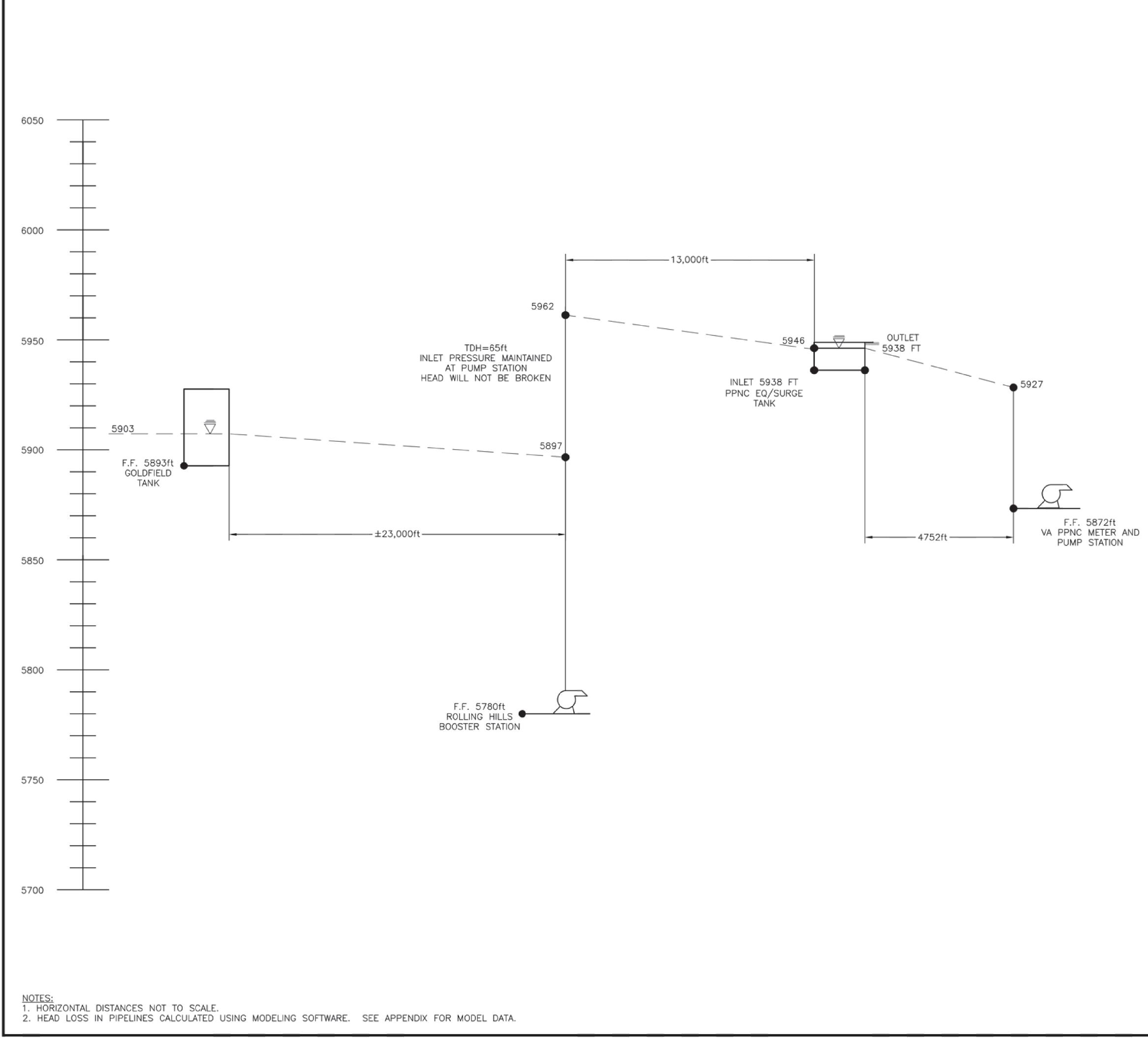
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WIDEFIELD WATER AND SANITATION DISTRICT VETERANS AFFAIRS PIKES PEAK NATIONAL CEMETERY ROLLING HILLS BOOSTER PUMP STATION SOUTHERN DELIVERY SYSTEM PROPOSED EXISTING SCHEDULE STATION FEMALE NATIONAL PIPE THREAD MALE NATIONAL PIPE THREAD FLANGE FIRE HYDRANT THRUST BLOCK MECHANICAL JOINT BUTTERFLY VALVE GATE VALVE SIDE OPERATED VALVE REDUCER

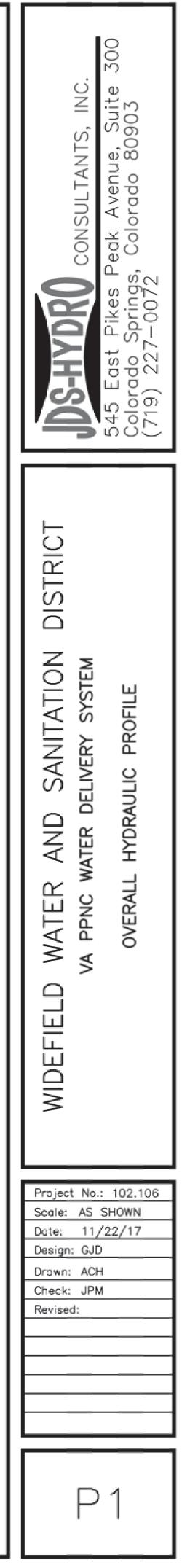


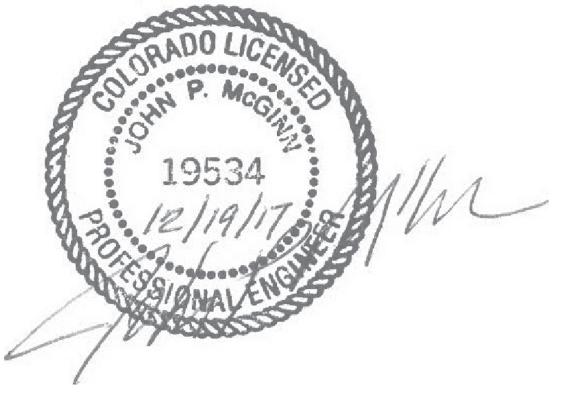
Colorado Springs, Colorado 80903 (719) 227-0072
WIDEFIELD WATER AND SANITATION DISTRICT va ppnc water delivery system sheet index and general notes
Project No.: 102.106 Scale: N.T.S. Date: 12/18/17 Design: GJD Drawn: GGM

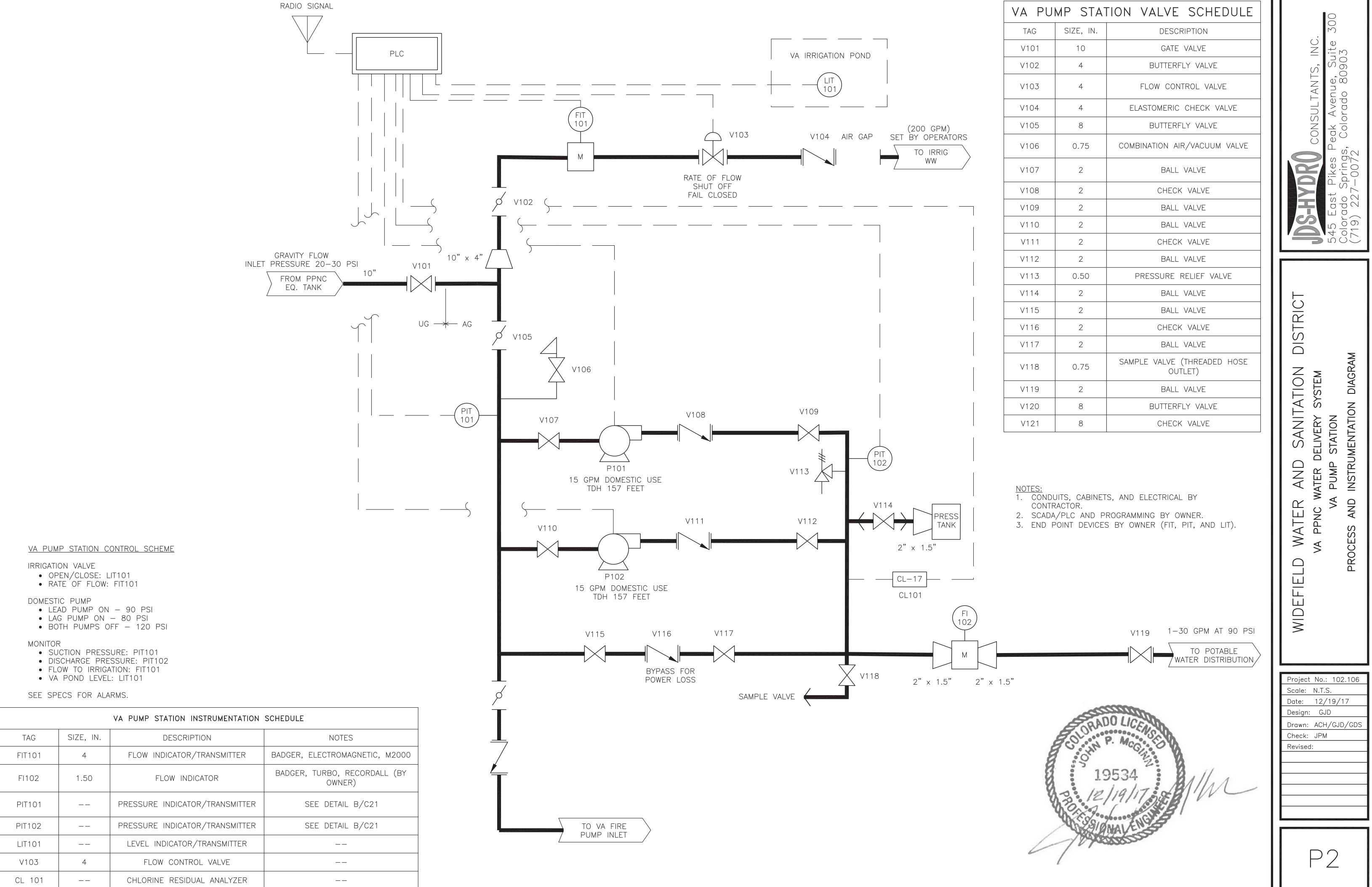
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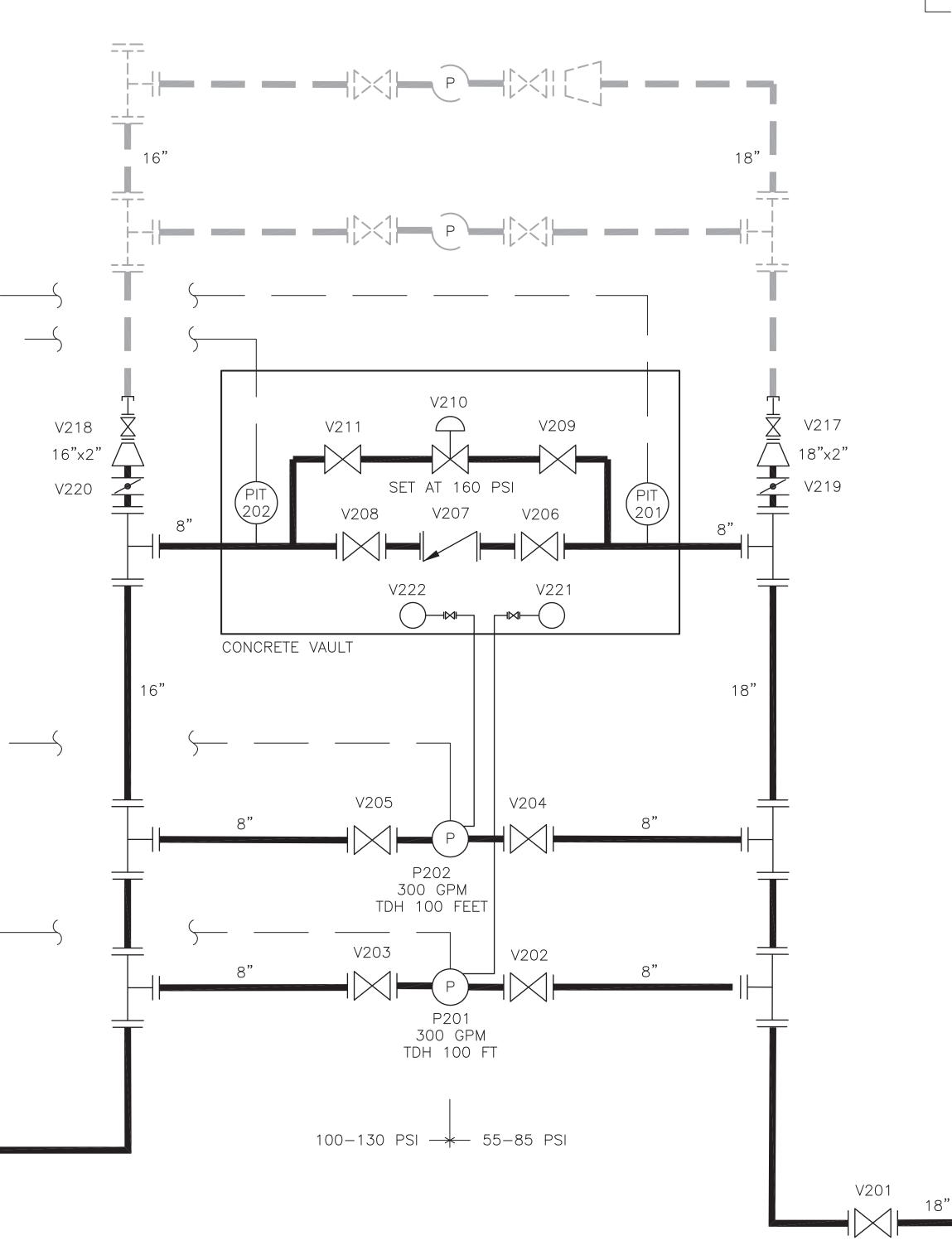
VA PU	MP STA	TION VALVE SCHEDULE
TAG	SIZE, IN.	DESCRIPTION
V101	10	GATE VALVE
V102	4	BUTTERFLY VALVE
V103	4	FLOW CONTROL VALVE
V104	4	ELASTOMERIC CHECK VALVE
V105	8	BUTTERFLY VALVE
V106	0.75	COMBINATION AIR/VACUUM VALVE
V107	2	BALL VALVE
V108	2	CHECK VALVE
V109	2	BALL VALVE
V110	2	BALL VALVE
V111	2	CHECK VALVE
V112	2	BALL VALVE
V113	0.50	PRESSURE RELIEF VALVE
V114	2	BALL VALVE
V115	2	BALL VALVE
V116	2	CHECK VALVE
V117	2	BALL VALVE
V118	0.75	SAMPLE VALVE (THREADED HOSE OUTLET)
V119	2	BALL VALVE
V120	8	BUTTERFLY VALVE
V121	8	CHECK VALVE

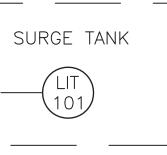
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MONITOR • SUCTI • DISCH • PUMP	PUMPS OFF ION PRESSUR IARGE PRESSI PS ON/OFF	E: PIT201	
• PUMP	? FAILÚRE S FOR ALARM	S.	
		TO VA PPNC	V216
	F	TO VA PPNC TO VA PPNC	V216
TAG	F SIZE, IN.	TO VA PPNC	V216
TAG PIT201		TO VA PPNC	
		TO VA PPNC	NOTES
PIT201		TO VA PPNC RHBPS INSTRUMENTATION SCHEDULE DESCRIPTION PRESSURE INDICATOR/TRANSMITTER	NOTES SEE DETAIL B/C21
PIT201 PIT202		TO VA PPNC TO VA PPNC RHBPS INSTRUMENTATION SCHEDULE DESCRIPTION PRESSURE INDICATOR/TRANSMITTER PRESSURE INDICATOR/TRANSMITTER	NOTES SEE DETAIL B/C21

RHBPS CONTROL SCHEME

<u>NOTES:</u> 1. MAX OUTLET DESIGN PRESSURE = 200 PSI FOR FUTURE







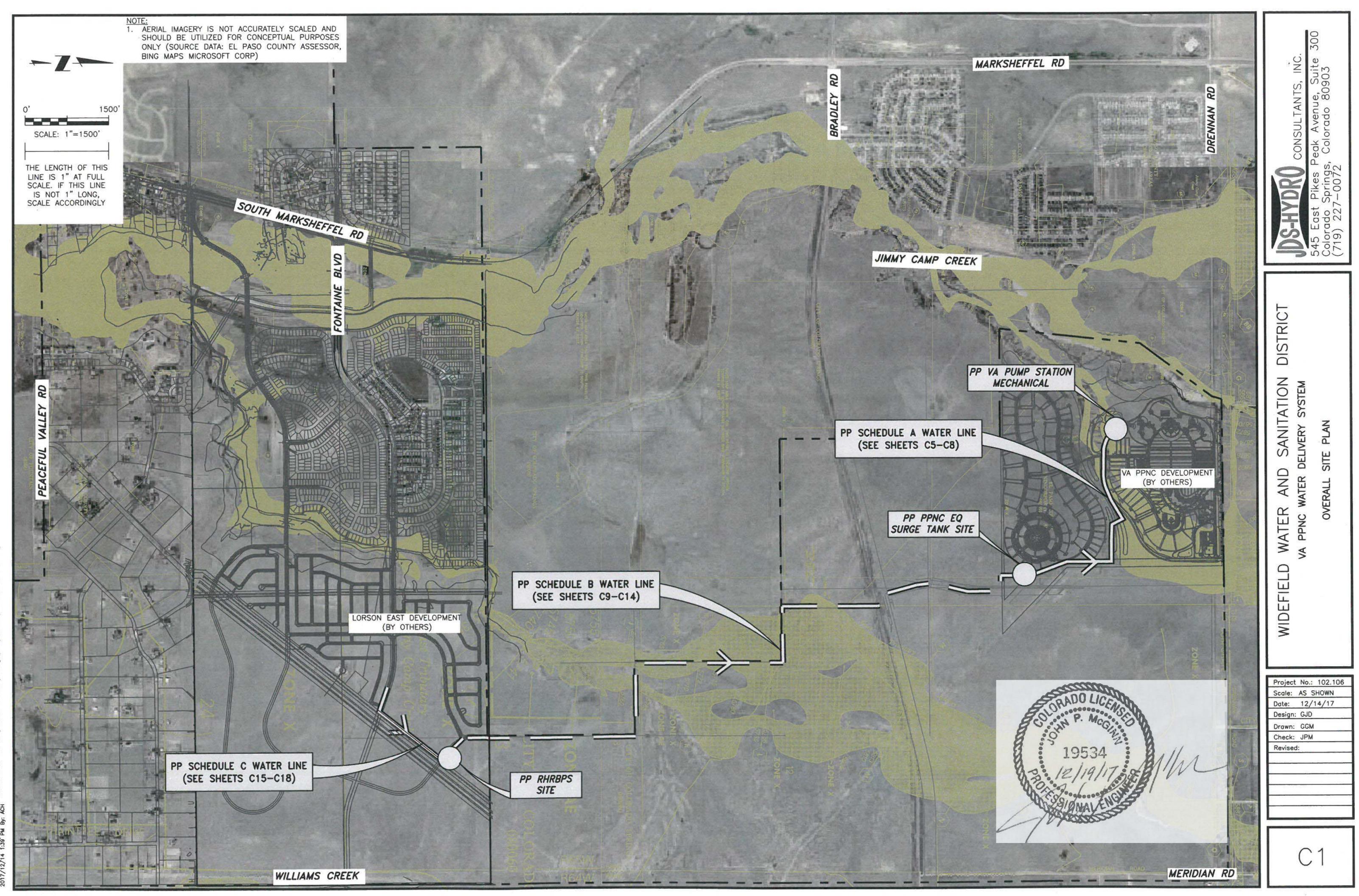
	RHBPS	S VALVE SCHEDULE
TAG	SIZE, IN.	DESCRIPTION
V201	18	SIDE OPERATED GATE VALVE
V202	8	GATE VALVE
V203	8	GATE VALVE
V204	8	GATE VALVE
V205	8	GATE VALVE
V206	8	GATE VALVE
V207	8	CHECK VALVE
V208	8	GATE VALVE
V209	1.50	GATE VALVE
V210	1.50	PRESSURE RELIEF VALVE
V211	1.50	GATE VALVE
V216	16	SIDE OPERATED GATE VALVE
V217	2	GATE VALVE
V218	2	GATE VALVE
V219	18	BUTTERFLY VALVE
V220	16	BUTTERFLY VALVE
V221	1	AIR/VAC RELIEF VALVE
V222	1	AIR/VAC RELIEF VALVE



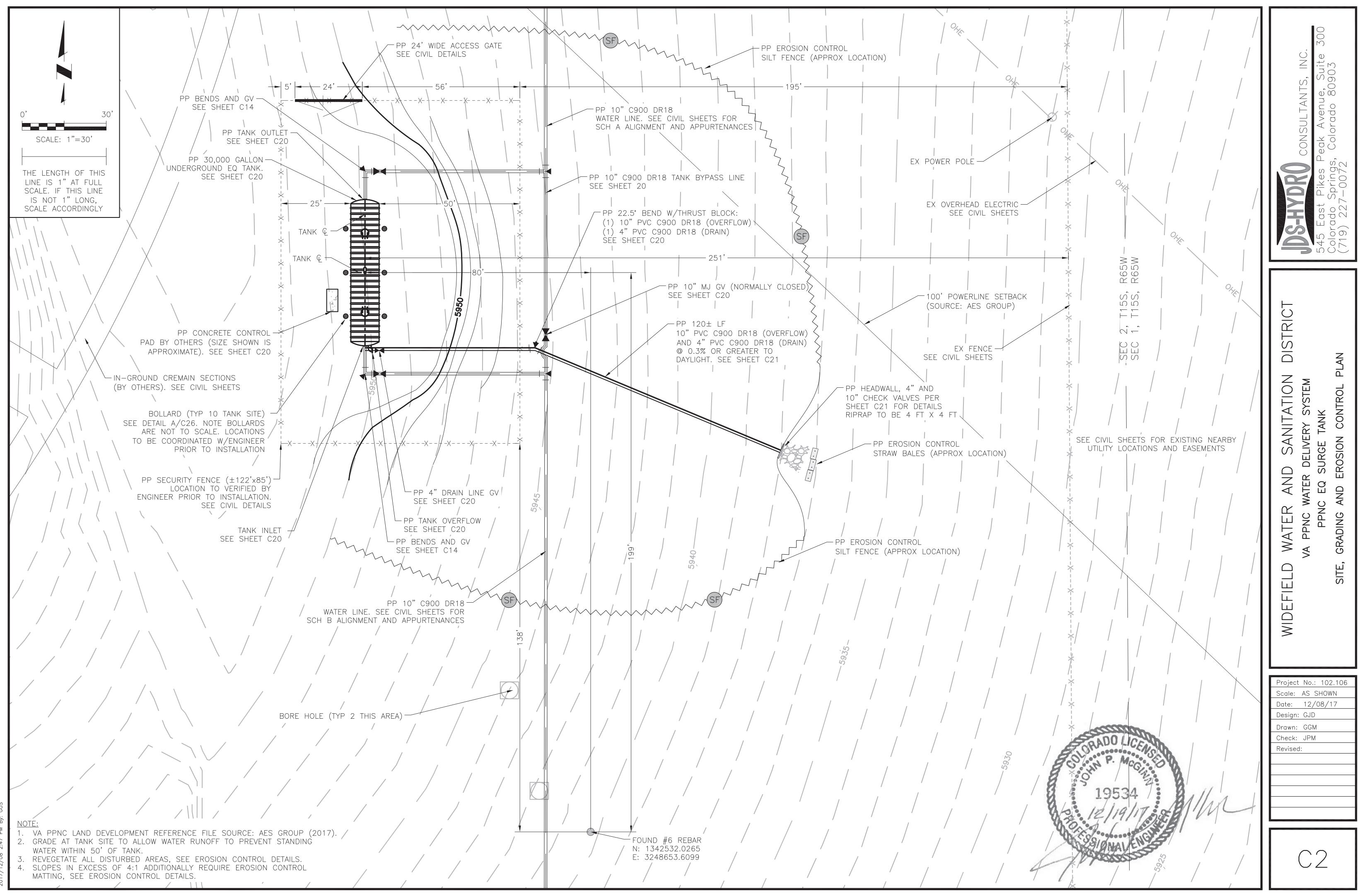




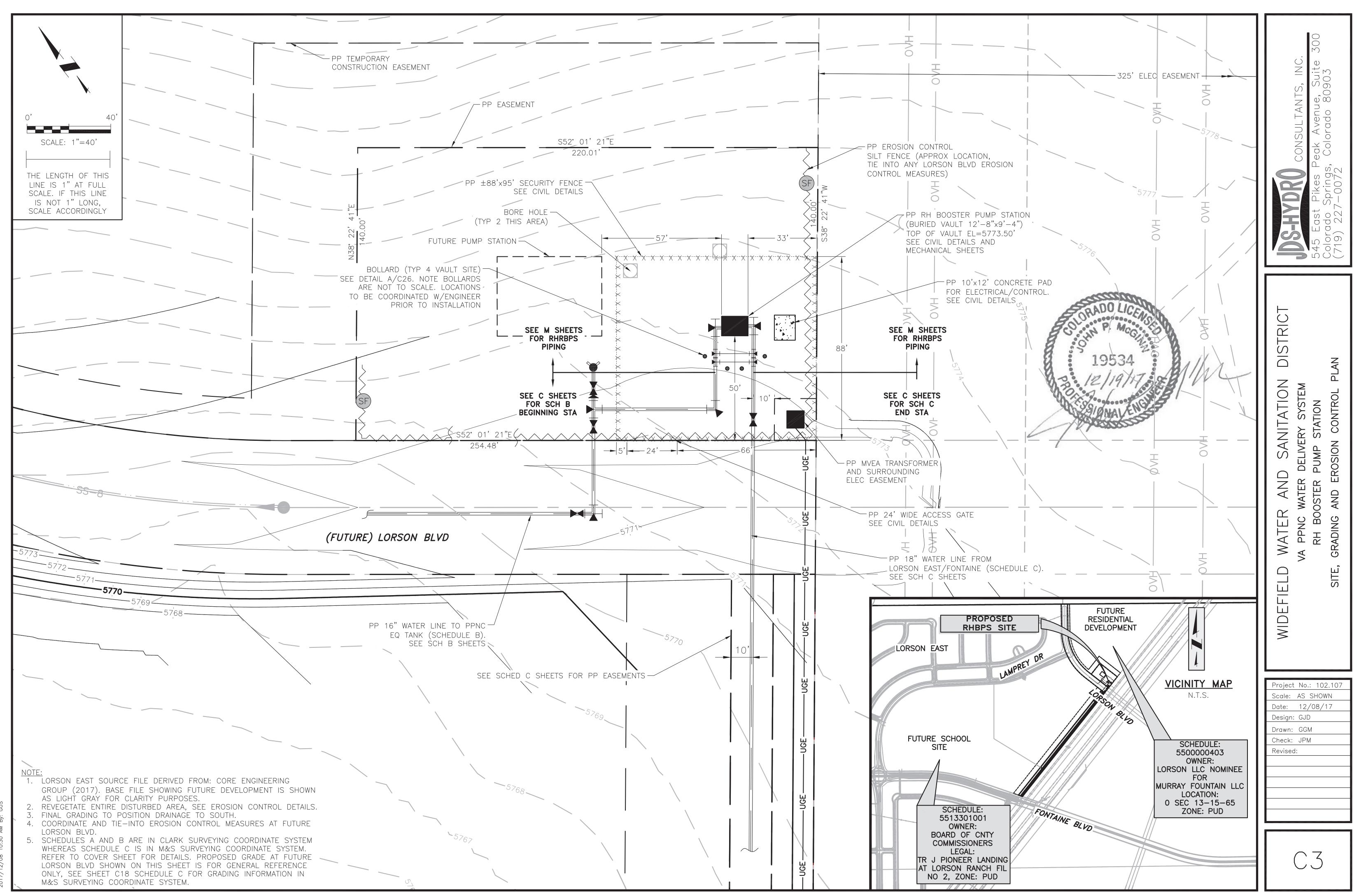
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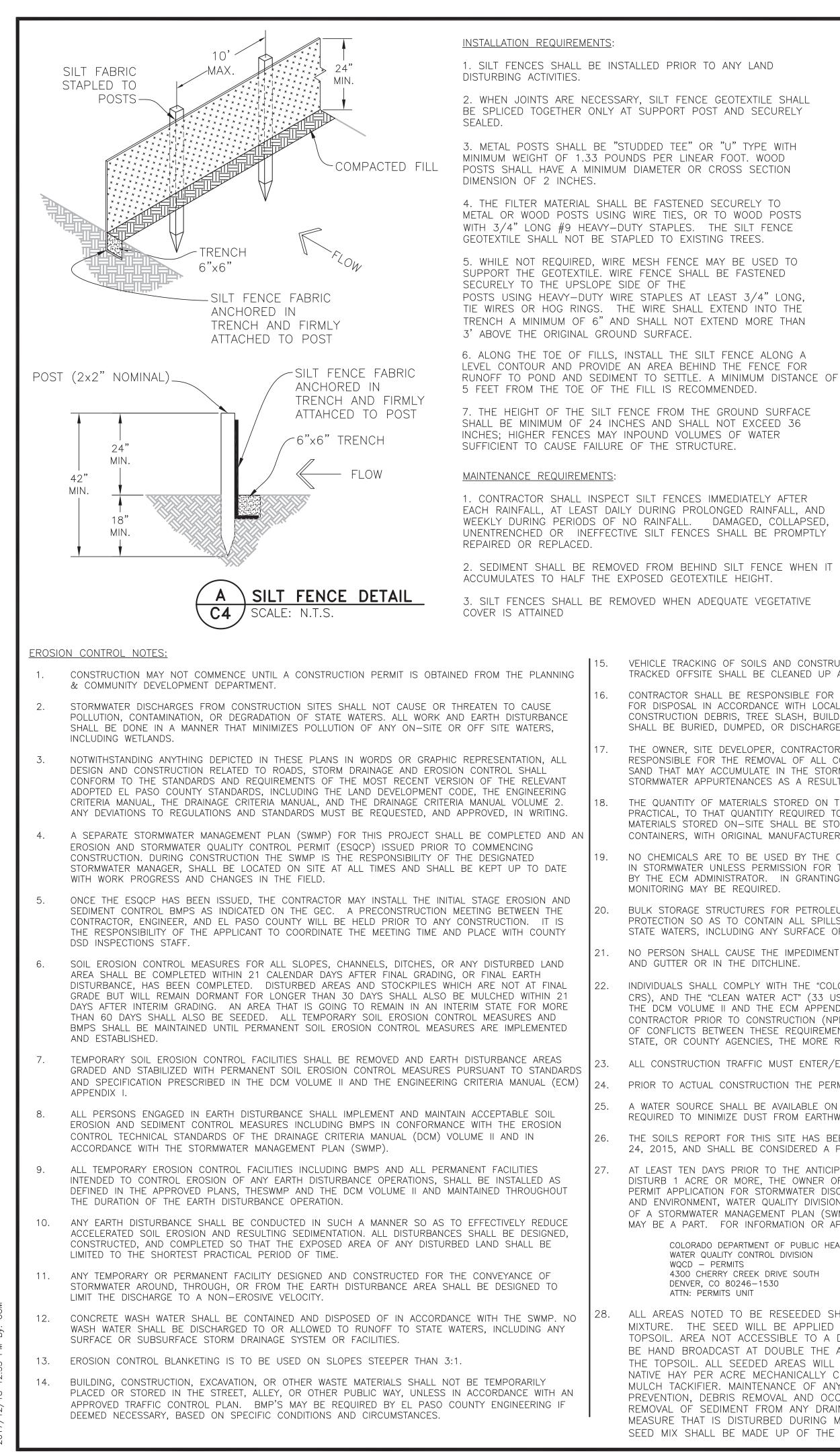
IS-Hydro/Project Files/102 Widefield Water And San/102.106 VA PPNC/Drawings/CAD/03_CIVIL/102106_0A_SITEPLAN.



S-Hydro\Project Files\102 Widefield Water And San\102.106 VA PPNC\Drawings\CAD\Addendum 3\102106_Tank_Site_location_rev.d



1. UDS-Hydro Project Files 102 Widefield Water And San 102.107 Lorson E Fontaine Pipeline Drawings CAD ADDENDUM 3 102107_PumpStationSite_Opt4.d



VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SIT FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.

INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8. CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS

25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS

26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL-THOMPSON, INC. DATED SEPTEMBER

27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

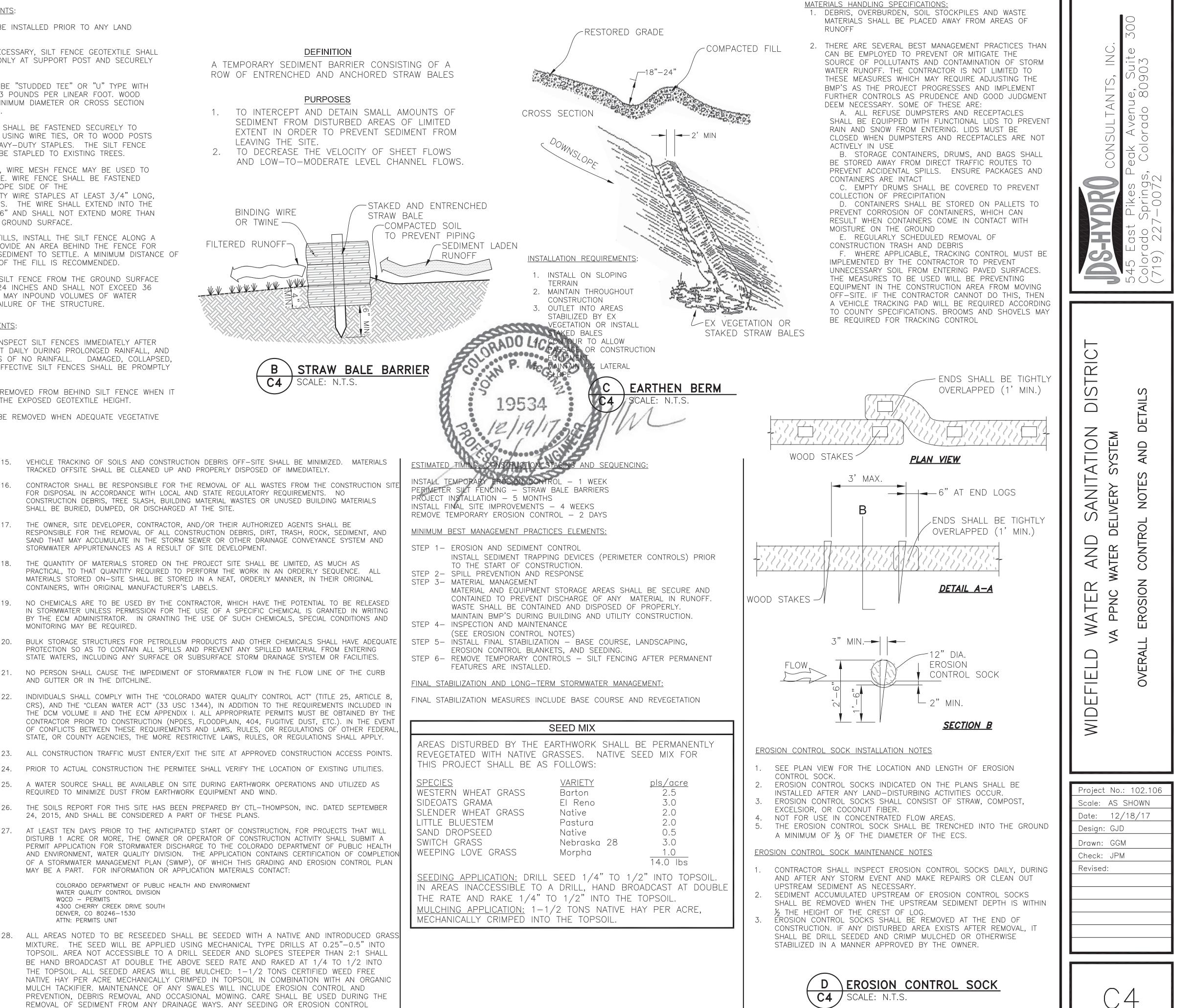
> COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION

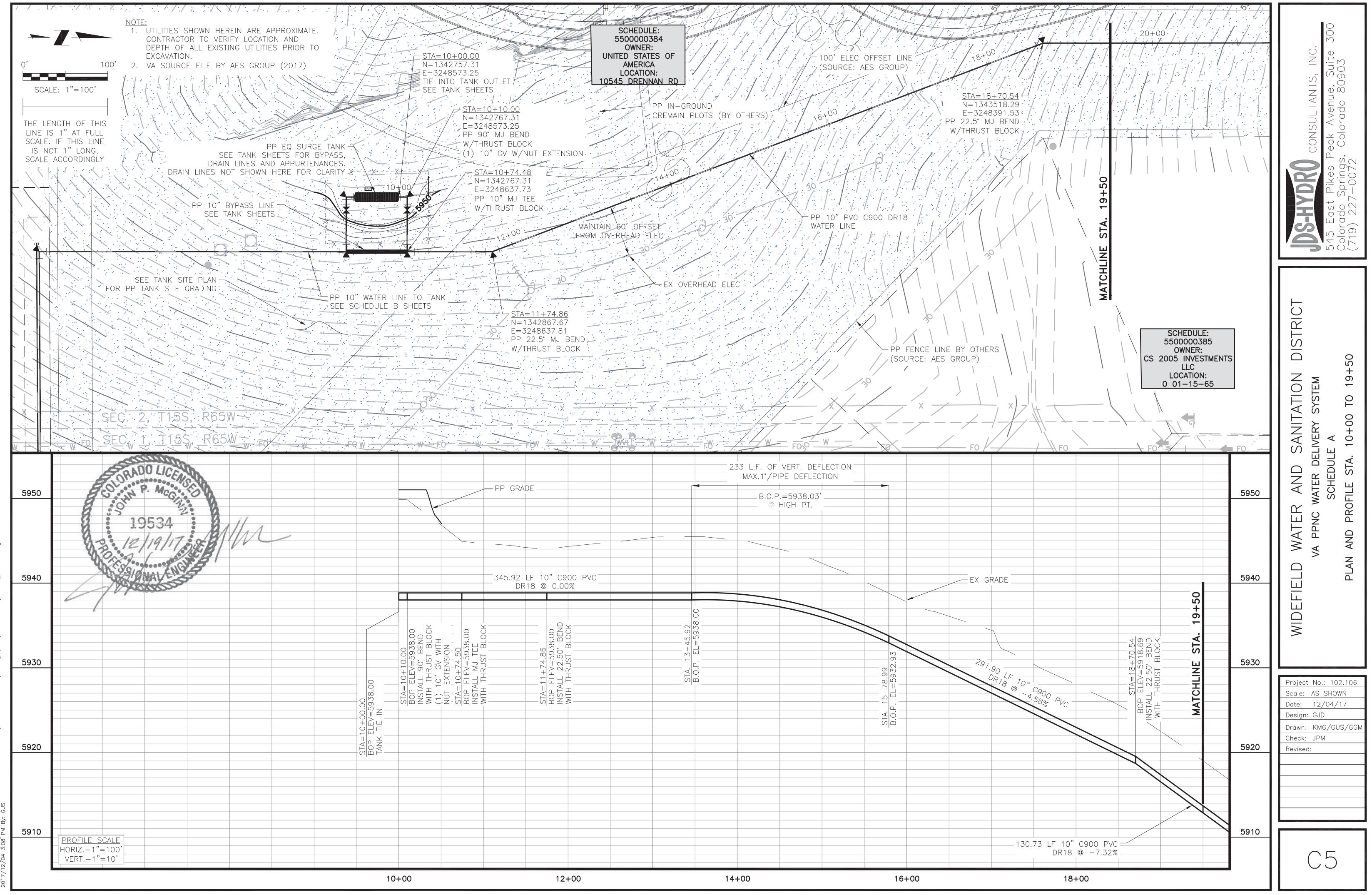
WQCD - PERMITS

4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530

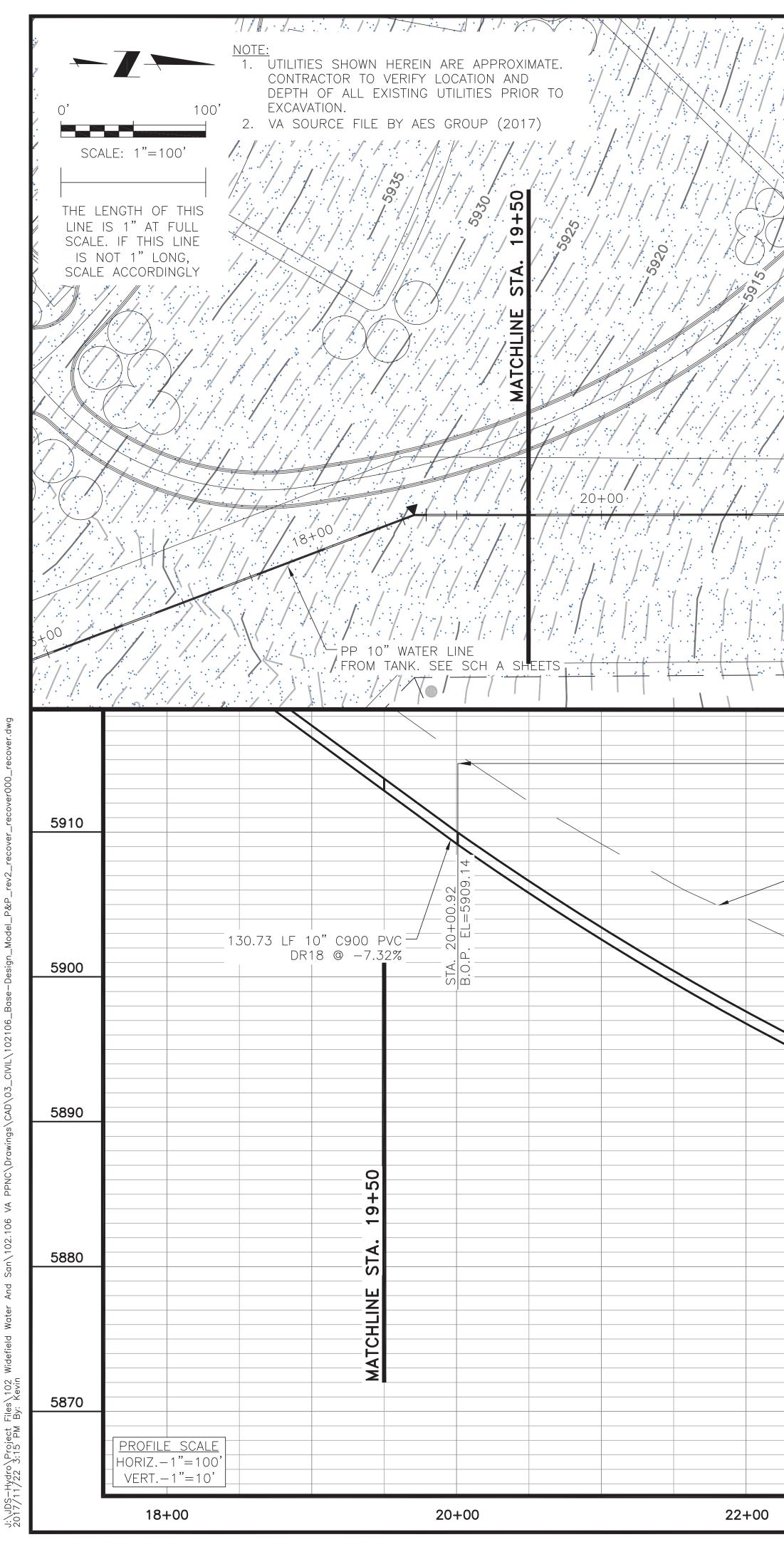
ATTN: PERMITS UNIT

ALL AREAS NOTED TO BE RESEEDED SHALL BE SEEDED WITH A NATIVE AND INTRODUCED GRASS MIXTURE. THE SEED WILL BE APPLIED USING MECHANICAL TYPE DRILLS AT 0.25"-0.5" INTO TOPSOIL. AREA NOT ACCESSIBLE TO A DRILL SEEDER AND SLOPES STEEPER THAN 2:1 SHALL BE HAND BROADCAST AT DOUBLE THE ABOVE SEED RATE AND RAKED AT 1/4 TO 1/2 INTO THE TOPSOIL. ALL SEEDED AREAS WILL BE MULCHED: 1-1/2 TONS CERTIFIED WEED FREE NATIVE HAY PER ACRE MECHANICALLY CRIMPED IN TOPSOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER. MAINTENANCE OF ANY SWALES WILL INCLUDE EROSION CONTROL AND PREVENTION, DEBRIS REMOVAL AND OCCASIONAL MOWING. CARE SHALL BE USED DURING THE REMOVAL OF SEDIMENT FROM ANY DRAINAGE WAYS. ANY SEEDING OR EROSION CONTROL MEASURE THAT IS DISTURBED DURING MAINTENANCE SHALL BE IMMEDIATELY REPAIRED. THE SEED MIX SHALL BE MADE UP OF THE MIX LISTED (SEE RIGHT).

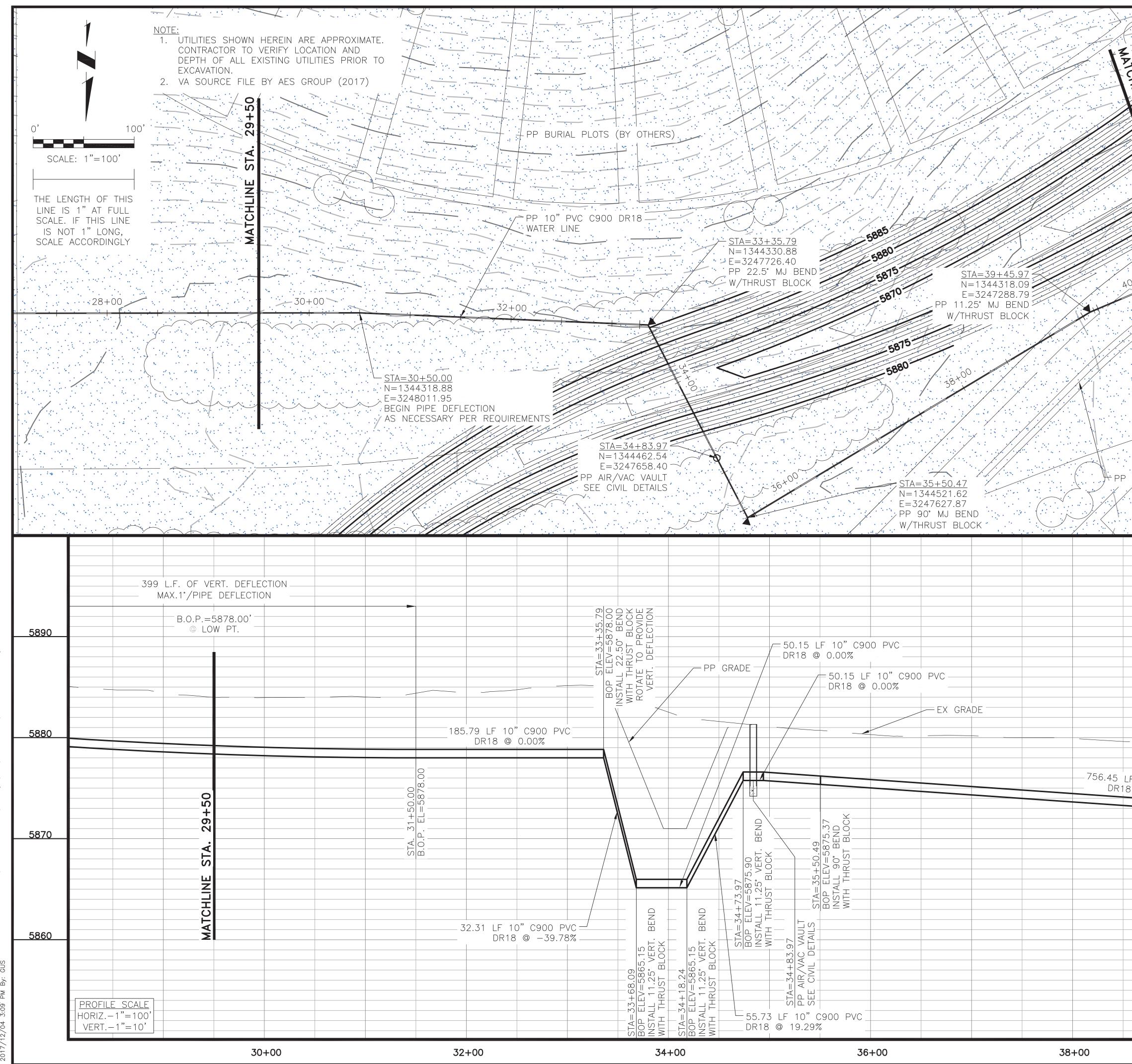




JDS-Hydro\Project Files\102 Widefield Water And San\102.106 VA PPNC\Drawings\CAD\Addendum 1\102106_C5-C14.dv 7/12/04 3:08 PM By: GUS

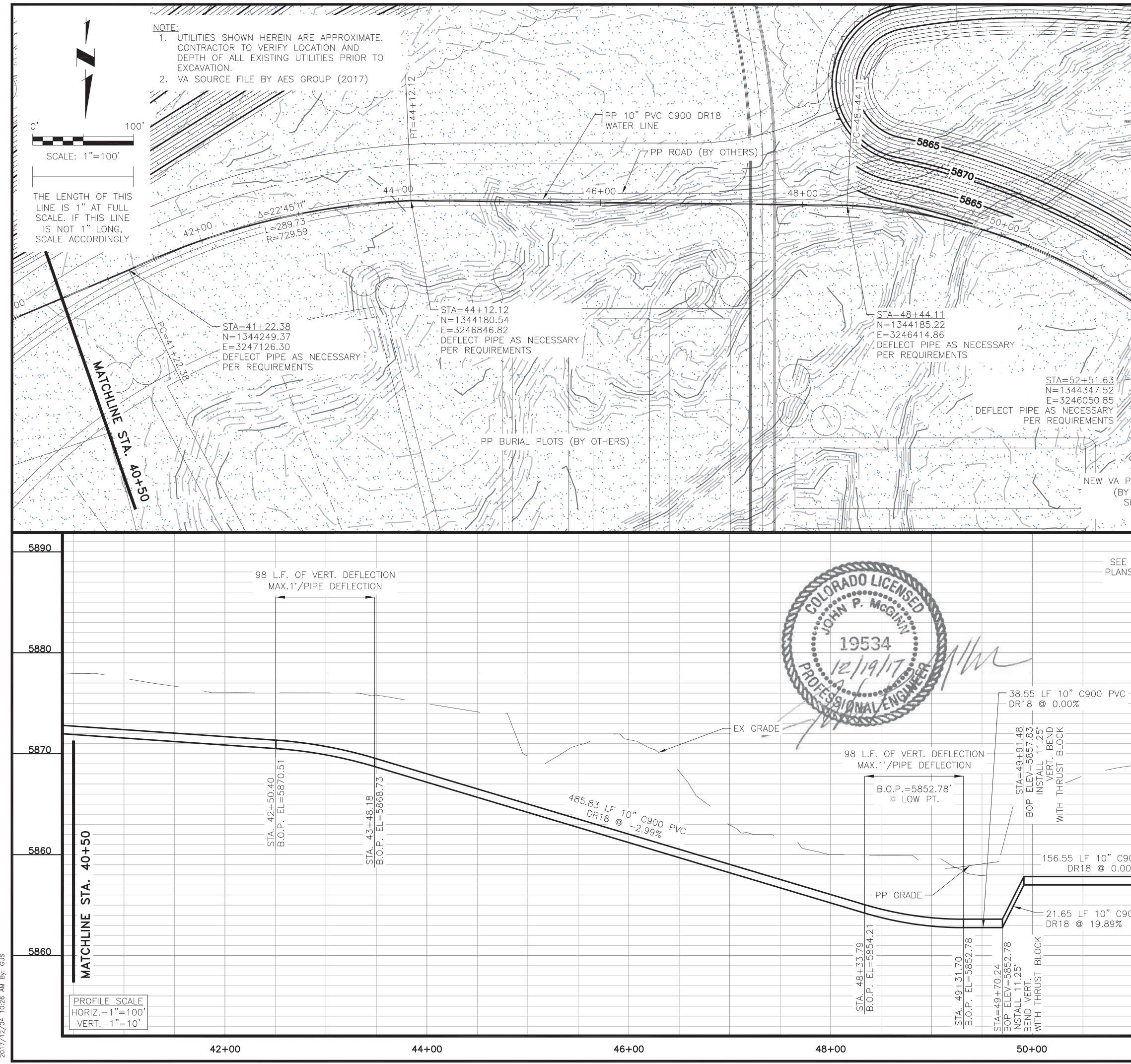


P ² BURIAL PLOTS (3Y OTHERS) (CTRSTT INF (SOURCE: AES OROUT) (2+05 (2+05) (2+05) (2+10)	80	RICT 545 East Pikes Peak Avenue, Suite 300 Colorado Springs, Colorado 80903 (719) 227-0072
HPP 10" PVC C800 DR18" WATER LINE APP FENCE LINE BY OTHERS (SOURCE: AES GROUP) P9 00" M. BEND W/THRUST BLOCK 19534 W/THRUST BLOCK 19534 1954 19534 19534 19534 1954 19	5910	WATER AND SANITATION DIST va ppnc water delivery system schedule a N AND PROFILE STA. 19+50 TO 29+50
79.00 LF 10° C900 PVC DR18 @75%	5890	Project No.: 102.106 Scale: AS SHOWN Date: 11/22/17 Design: GJD Drawn: KMG/GUS/GGM Check: JPM Revised:
24+00 26+00 26+00 28+00 30+00	5870	C6



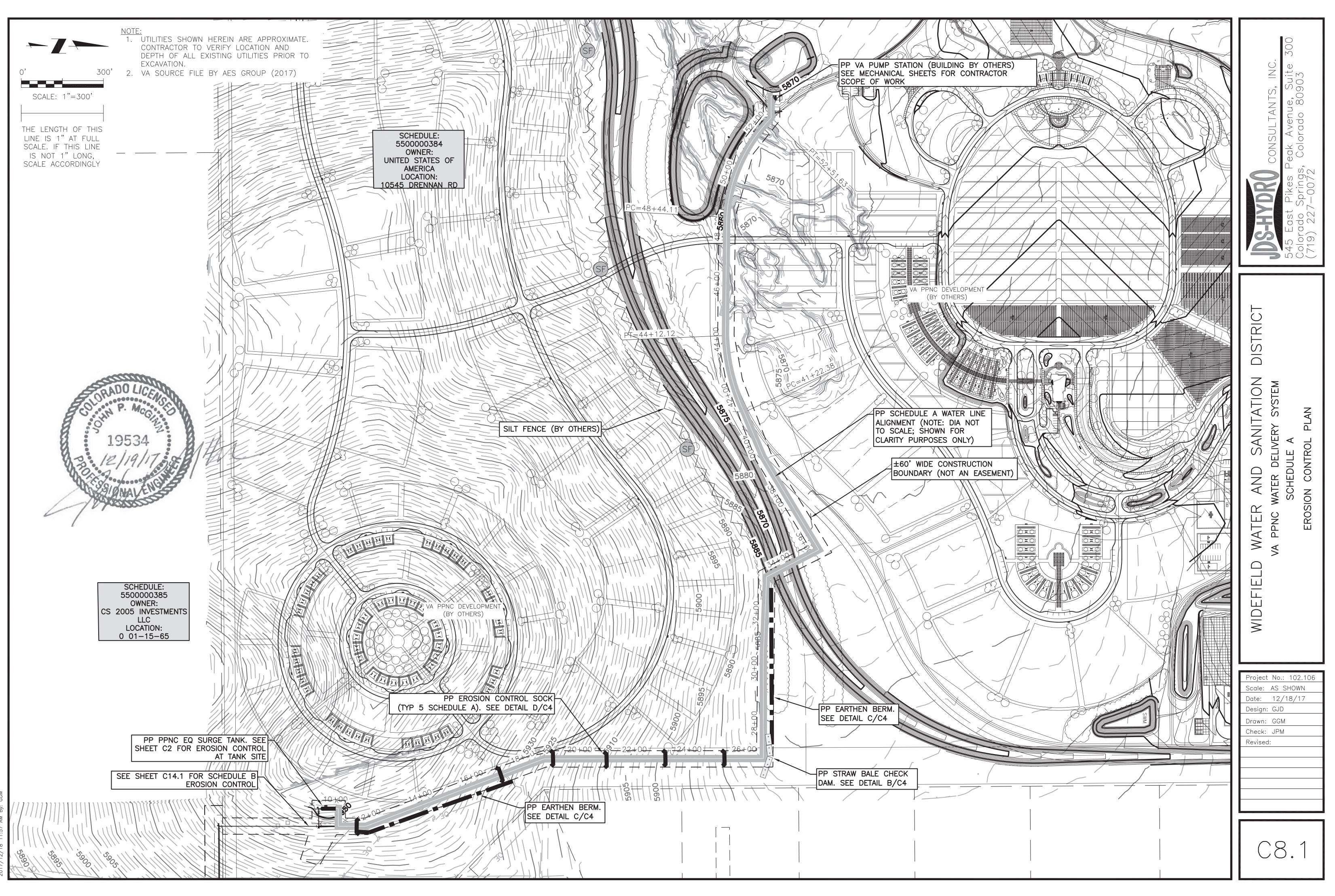
DS-Hydro\Project Files\102 Widefield Water And San\102.106 VA PPNC\Drawings\CAD\Addendum 1\102106_C5-C14 7/12/04 3:09 PM By: GUS

	545 East Pikes Peak Avenue, Suite 300 545 East Pikes Peak Avenue, Suite 300 545 East Pikes Peak Avenue, Suite 300 549 227-0072
ROAD (BY OTHERS)	AND SANITATION DISTRICT water delivery system schedule a File Sta. 29+50 to 40+50
Image: Normal state in the	LD WATER AND VA PPNC WATER SCHED PLAN AND PROFILE S
F 10" C900 PVC	Project No.: 102.106 Scale: AS SHOWN
STA=39+45.99 STA=39+45.99 BOP ELEV=5872.62 INSTALL 11.25* BEND WITH THRUST BLOCK WITH THRUST BLOCK	Date: 12/04/17 Design: GJD Drawn: KMG/GUS/GGM Check: JPM Revised:
H0+00	C7

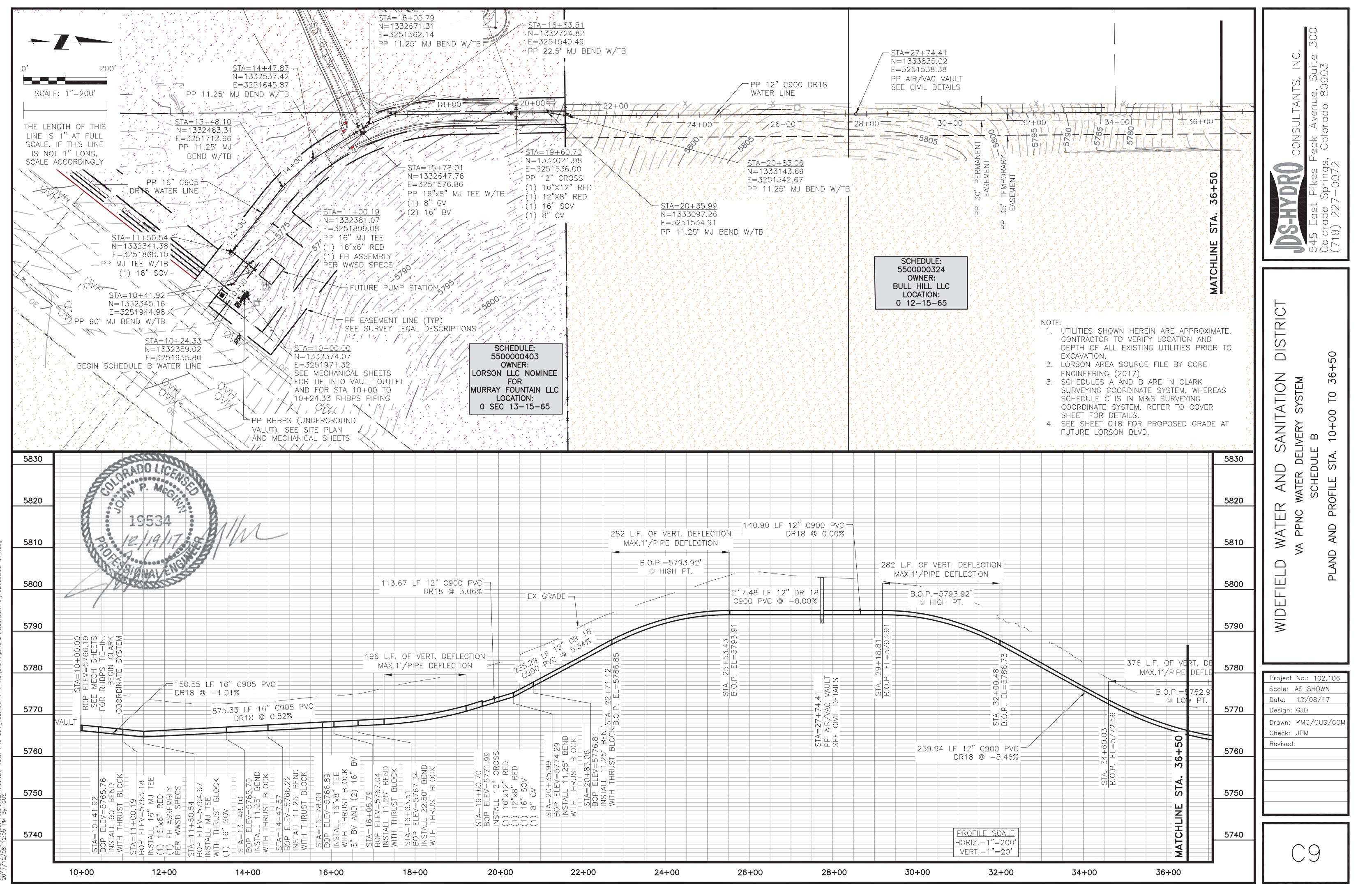


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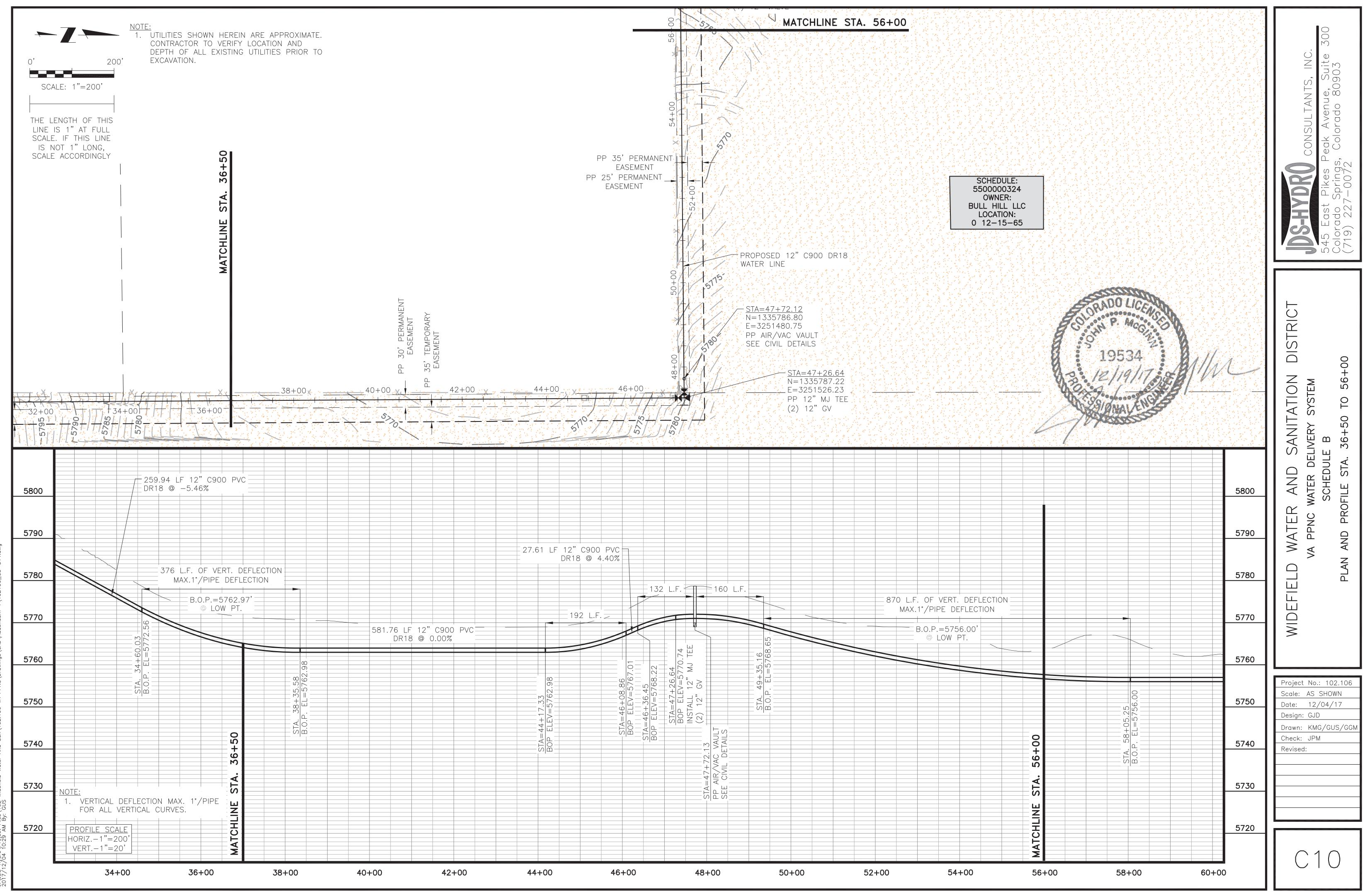
STA=52+51.63 N=1344347.52 E=3246050.85 PP 45' MJ BEND	545 East Pikes Peak Avenue, Suite 300 Colorado Springs, Colorado 80903 (719) 227-0072
S3 W/THRUST BLOCK STA=53+28.89 N=1344347.52 E=3245973.59 PP 90' MJ BEND W/THRUST BLOCK (1) GV S1A=53+33.86 N=1344352.49 E=3245973.71 THE INTO NEW VA PUMP STATION SEE MECHANICAL SCOPE OF WORK SFOR PP GRADE SURROUNDING THE VA PUMP STATION THE VA PUMP STATION SFOR PP GRADE SURROUNDING THE VA PUMP STATION THE VA PUMP STATION THE VA PUMP STATION THE VA PUMP STATION SFOR PP GRADE SURROUNDING THE VA PUMP STATION THE WA PUMP STATION THE VA PUMP STATION <td< td=""><td>IDEFIELD WATER AND SANITATIO va ppnc water delivery systen schedule a plan and profile sta. 40+50 to 5</td></td<>	IDEFIELD WATER AND SANITATIO va ppnc water delivery systen schedule a plan and profile sta. 40+50 to 5
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52+00	C8



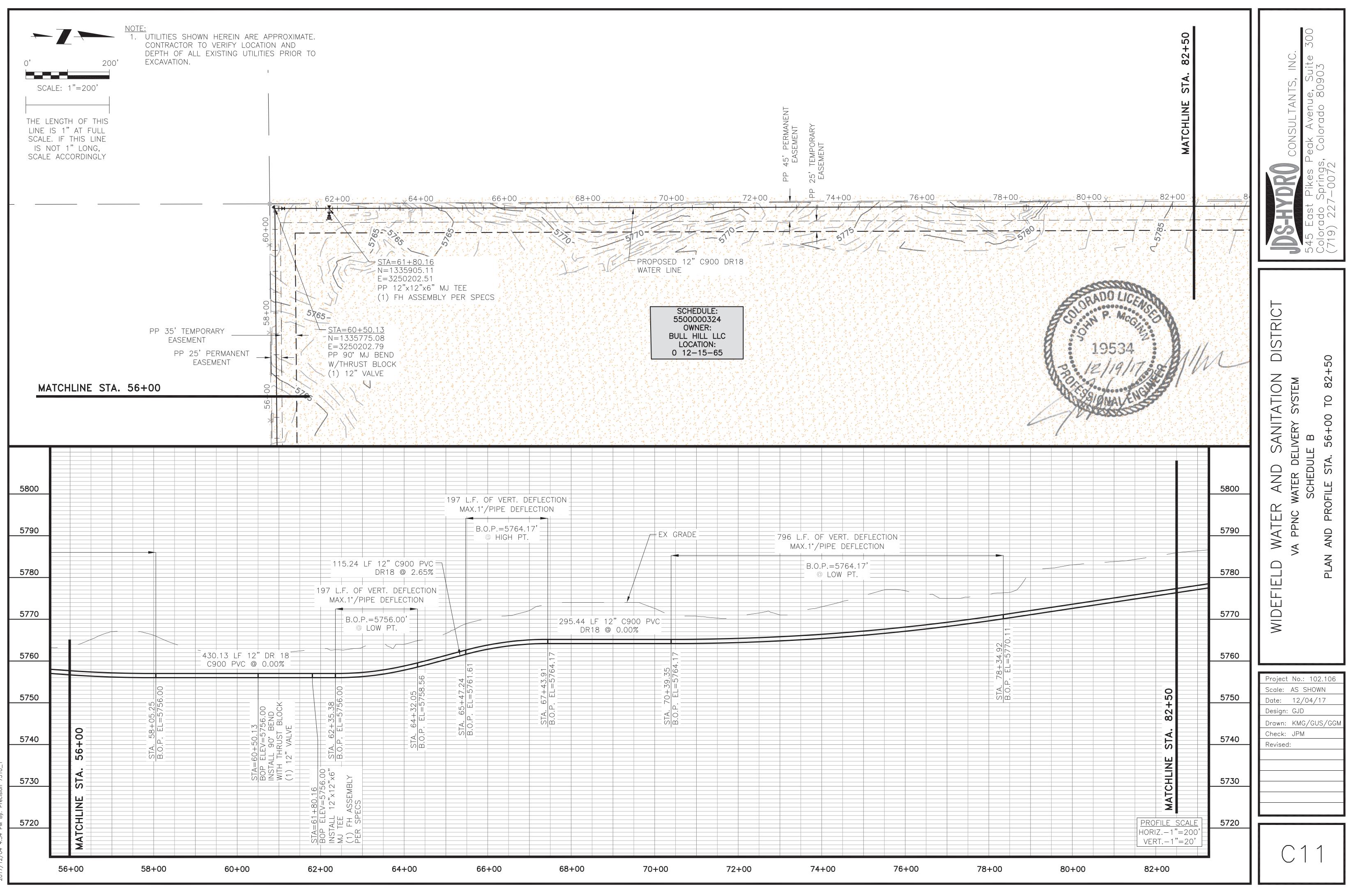
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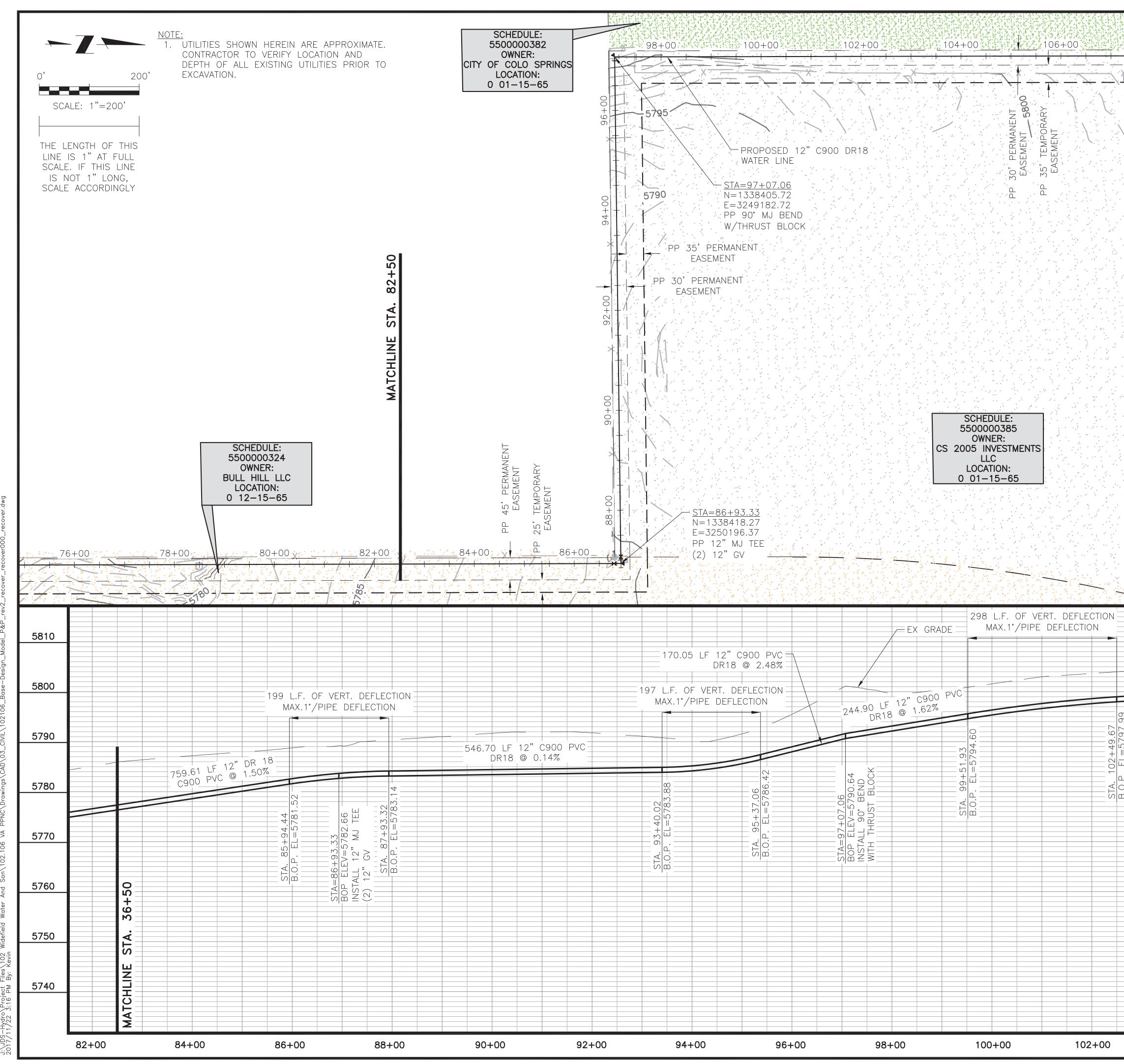
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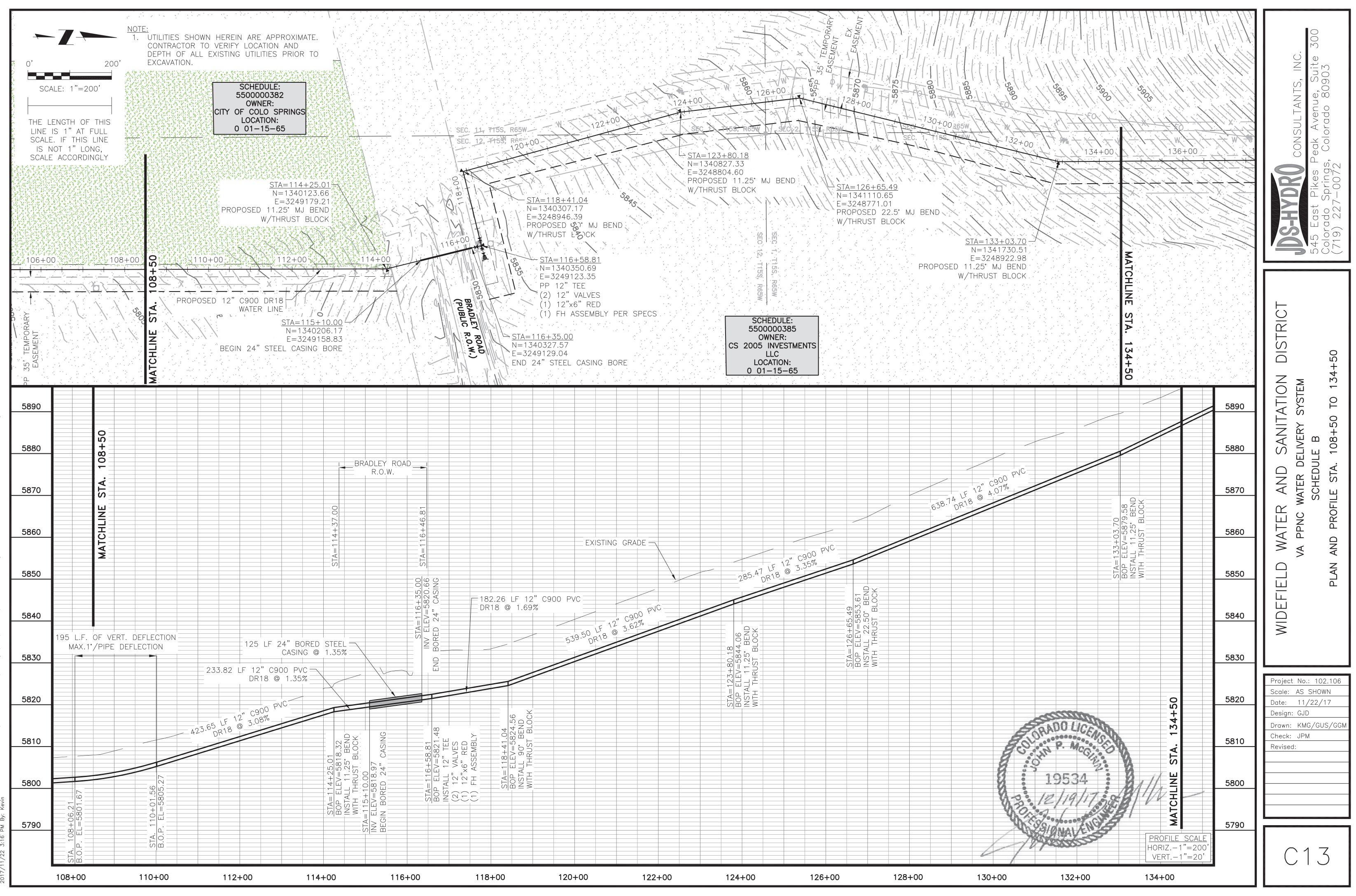
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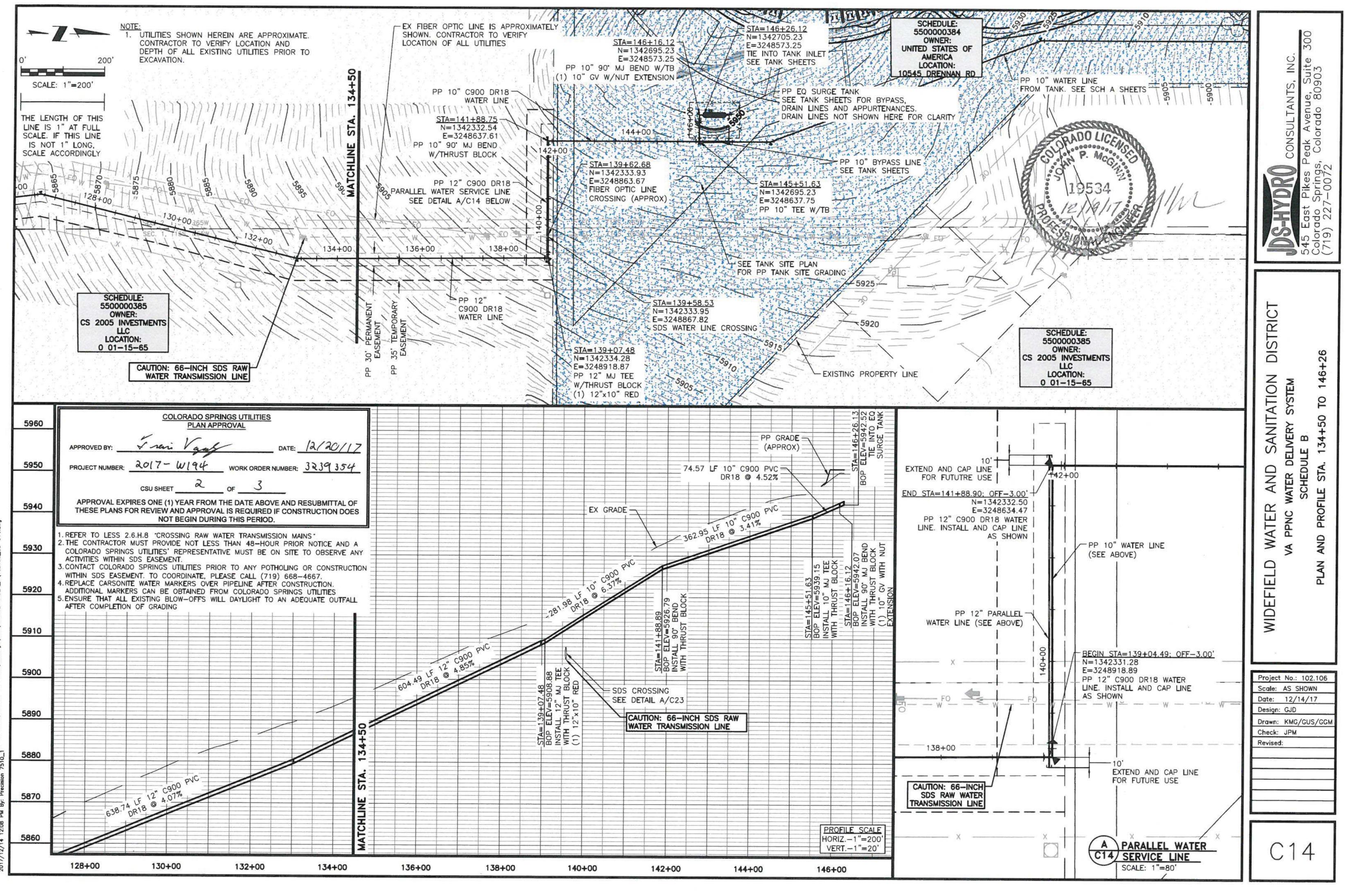
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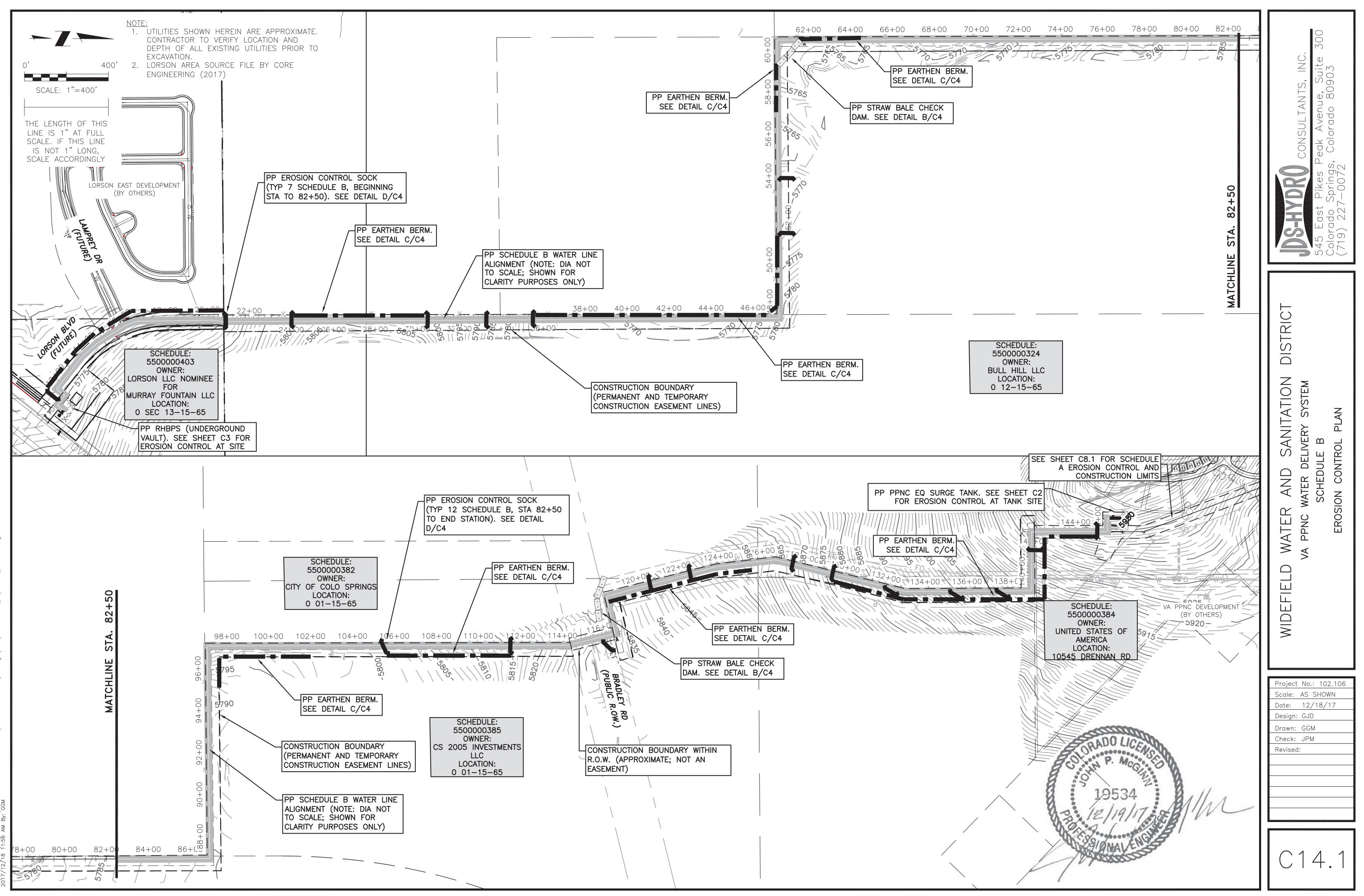
108+00 5800 MATCHLINE STA. 108				DescriptionConsultants, INC.545 East Pikes Peak Avenue, Suite 300545 East Pikes Peak Avenue, Suite 300545 (719) 227-0072(719) 227-0072
08+50 	COLORADO COLORADO 195 12/19 195 12/19	A TONICOLOGICAL		R AND SANITATION DISTRICT Water delivery system Schedule B File STA. 82+50 TO 108+50
556.55 L 576.55 L 	F 12" C900 PVC	21.67	5810 5800	FIELD WATER ANI VA PPNC WATER SCHEI PLAN AND PROFILE S
Image: sector	Image: section of the sectio		5790 5780	WIDEFIE
Image: sector	Image: set of the set	108+50	5770	Project No.: 102.106 Scale: AS SHOWN Date: 11/22/17 Design: GJD Drawn: KMG/GUS/GGM Check: JPM
Image: constraint of the sector of	Image: constraint of the sector of	MATCHLINE STA.	5760 5750	Revised:
104+00	106+00	PROFILE SCALE HORIZ1"=200' VERT1"=20' 108+00	5740	C12



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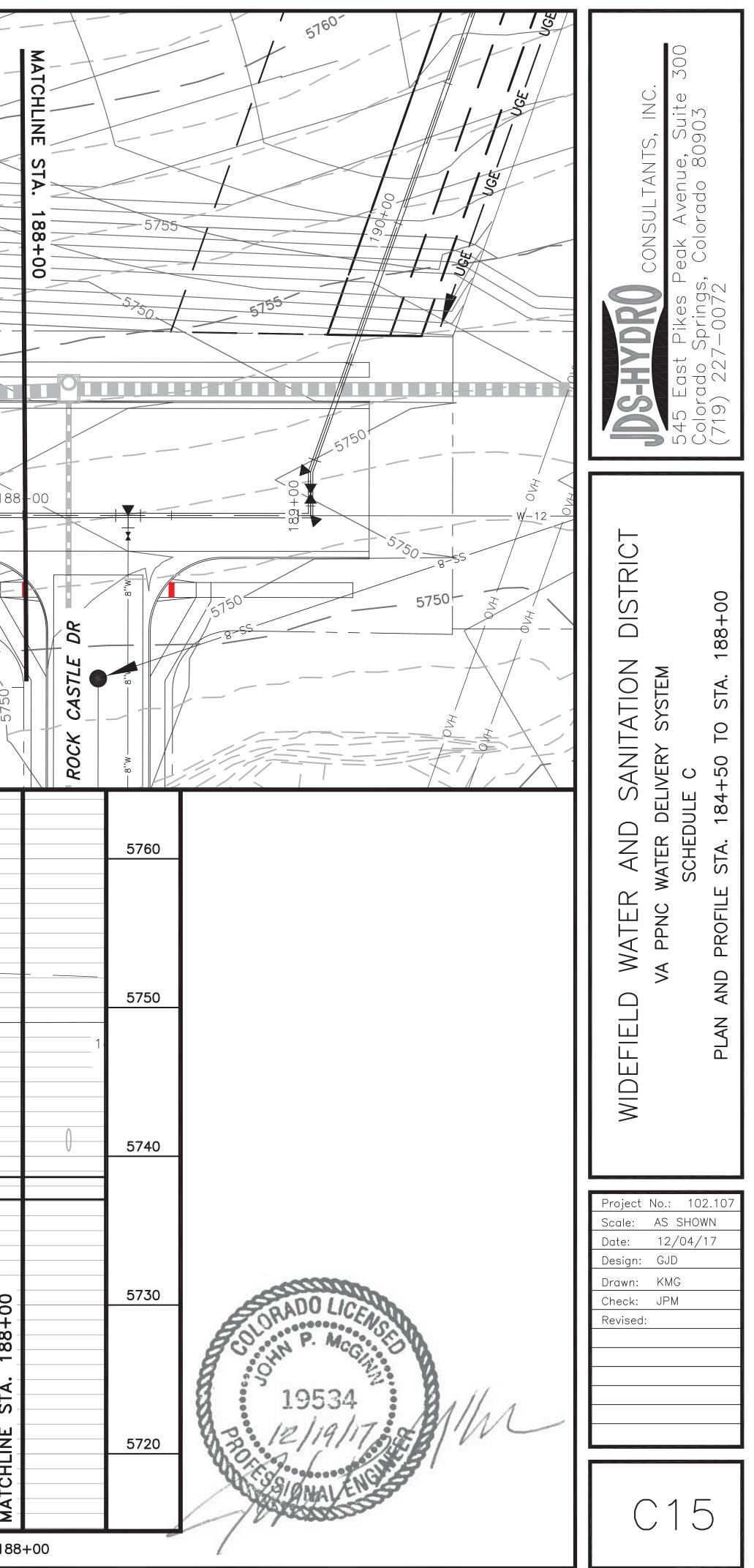
Hydro Project Files 102 Widefield Water And San 102.106 VA PPNC Drawings CAD CHANGE ORDER 1/102106_C5-C14.

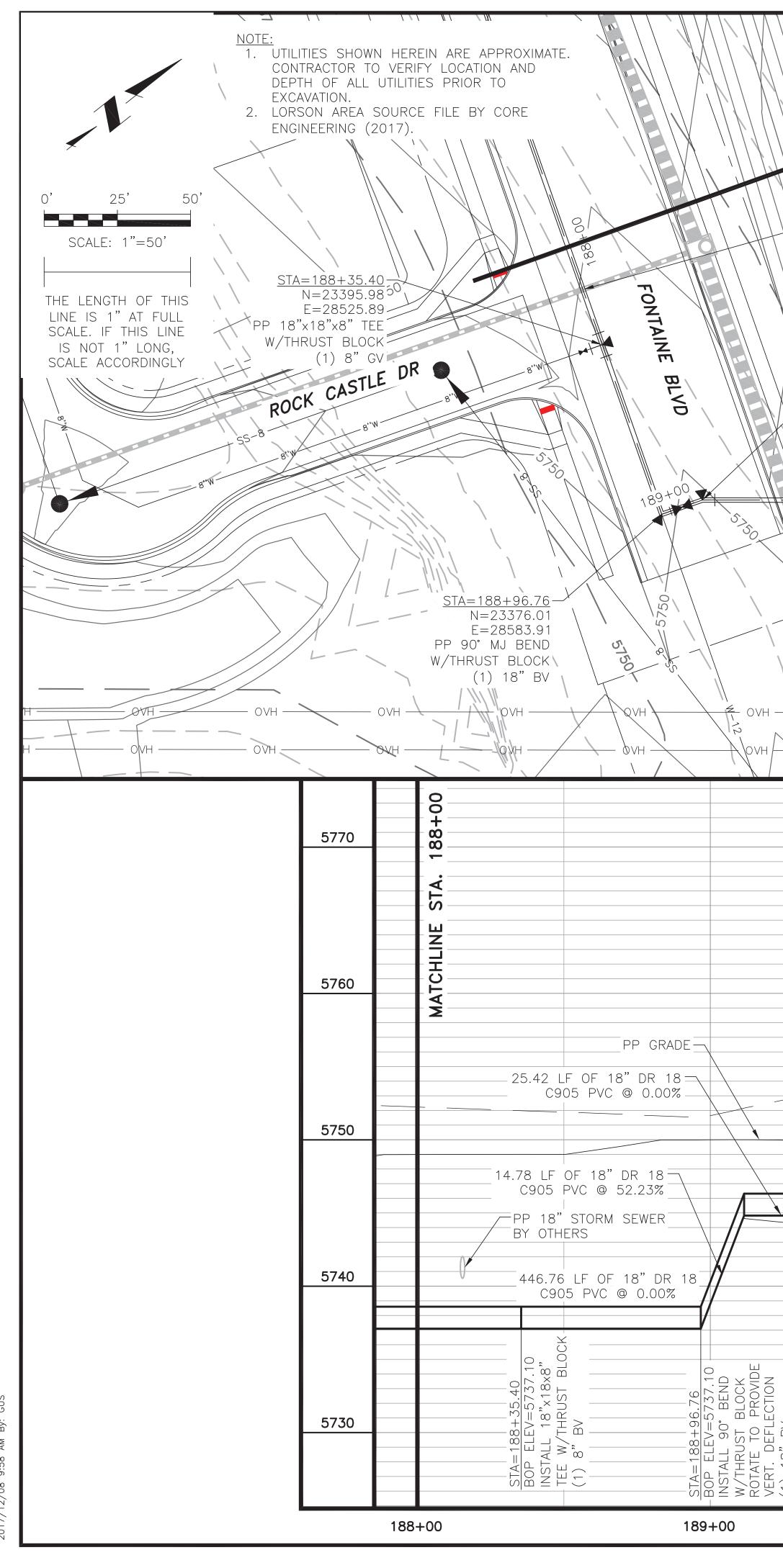


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		576	so			CO	MMISSIONERS			
0' 25' 50'						TRJ F	POINEER LANDING			
SCALE: 1"=50'		- 5750				NO 2	2, ZQNE: PUD			
					<u>STA=186+1</u>		100	X		
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SCALE. IF THIS LINE										
IS NOT 1" LONG, SCALE ACCORDINGLY										
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						PP 18	3"			
						PP 18	3"		18	
		5750				PP 18	3"	6.76 LF OF 18" DR C905 PVC @ 0.00%		
		5750				PP 18	3"			
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		5750				PP 18	3"			
		5750		STA=184+50.00 STA=184+50.00 BOP ELEV=5737.10 TIE INTO 18" WATER LINE BY OTHERS) (1) 18" SOV		PP 18	3"			
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		5750				PP 18	3"			
		5750		STA=184+50.00 BOP ELEV=5737.10 TIE INTO 18" WATER LINE (SOURCE WATER LINE BY OTHERS) (1) 18" SOV		PP 18	3"			
		5750	PROFILE SCALE HORIZ 1"=50'	STA=184+50.00 STA=184+50.00 BOP ELEV=5737.10 TIE INTO 18" WATER LINE (SOURCE WATER LINE BY OTHERS) (1) 18" SOV		PP 18	3"			
		5750	PROFILE SCALE HORIZ1"=10"	STA=184+50.00 STA=184+50.00 BOP ELEV=5737.10 TIE INTO 18" WATER LINE (SOURCE WATER LINE BY OTHERS) (1) 18" SOV		PP 18	3"			
		5750	PROFILE SCALE HORIZ1"=10"	STA=184+50.00 STA=184+50.00 BOP ELEV=5737.10 TIE INTO 18" WATER LINE (SOURCE WATER LINE BY OTHERS) (1) 18" SOV			3"	6.76 LF OF 18" DR C905 PVC @ 0.00%	18 18 18	

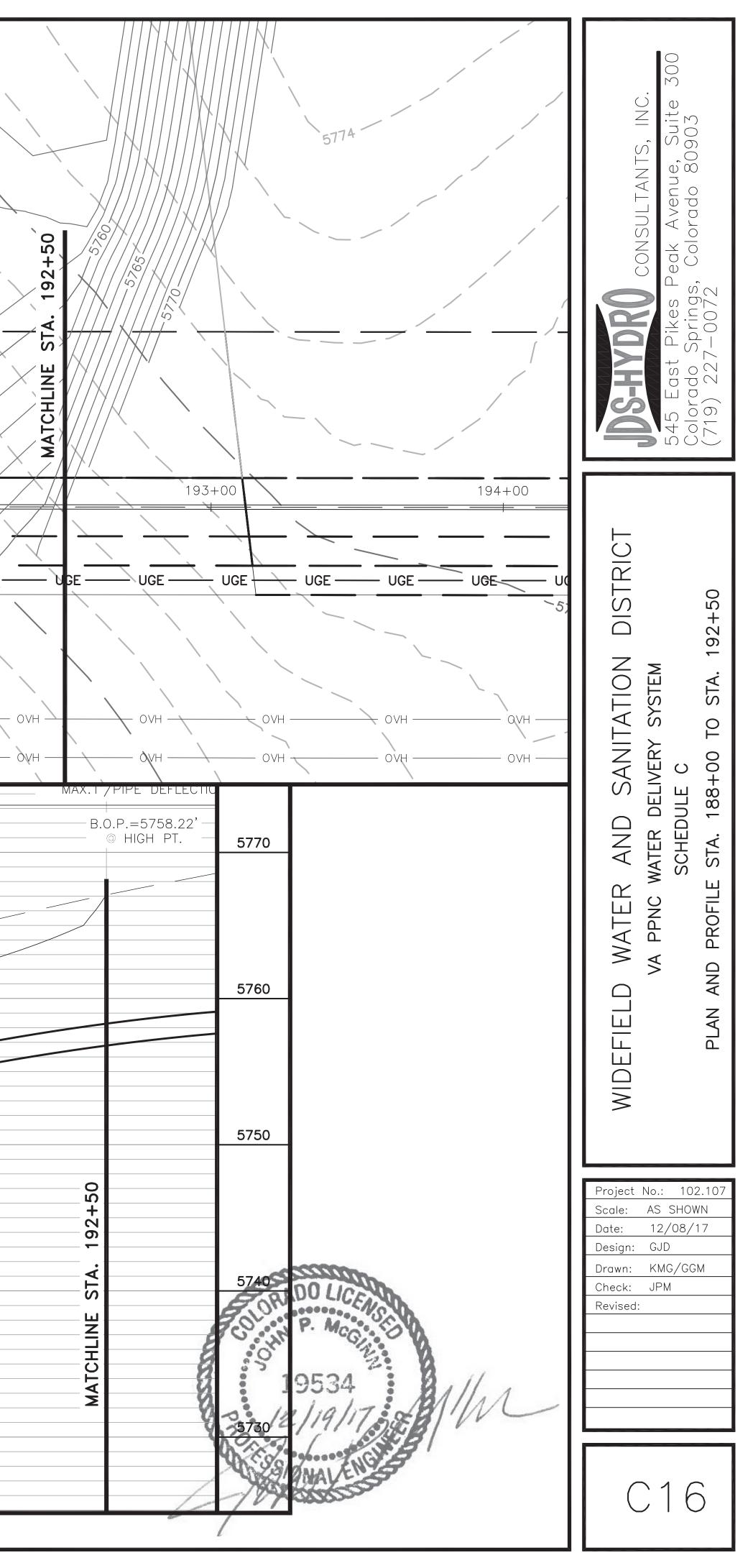
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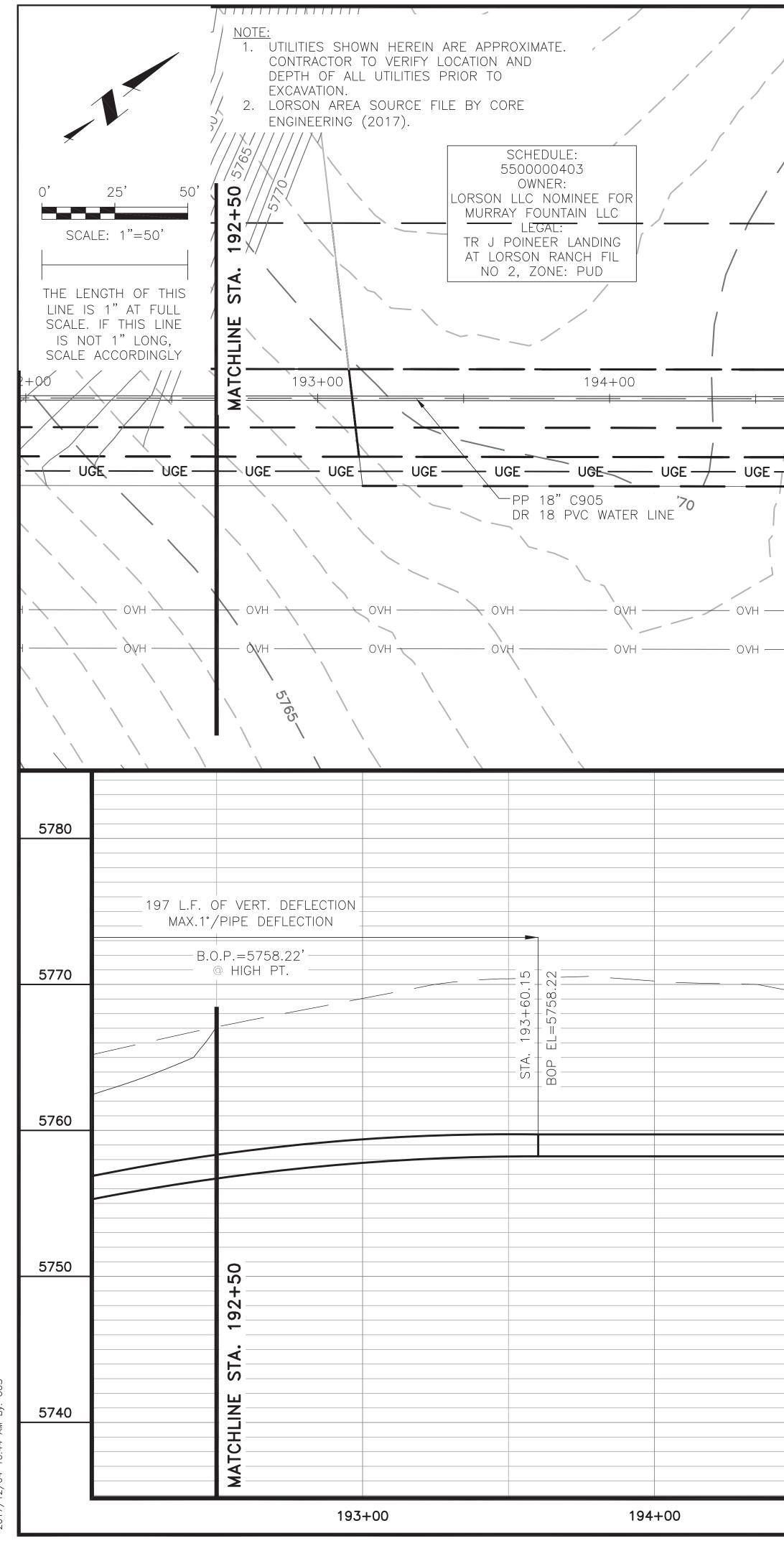




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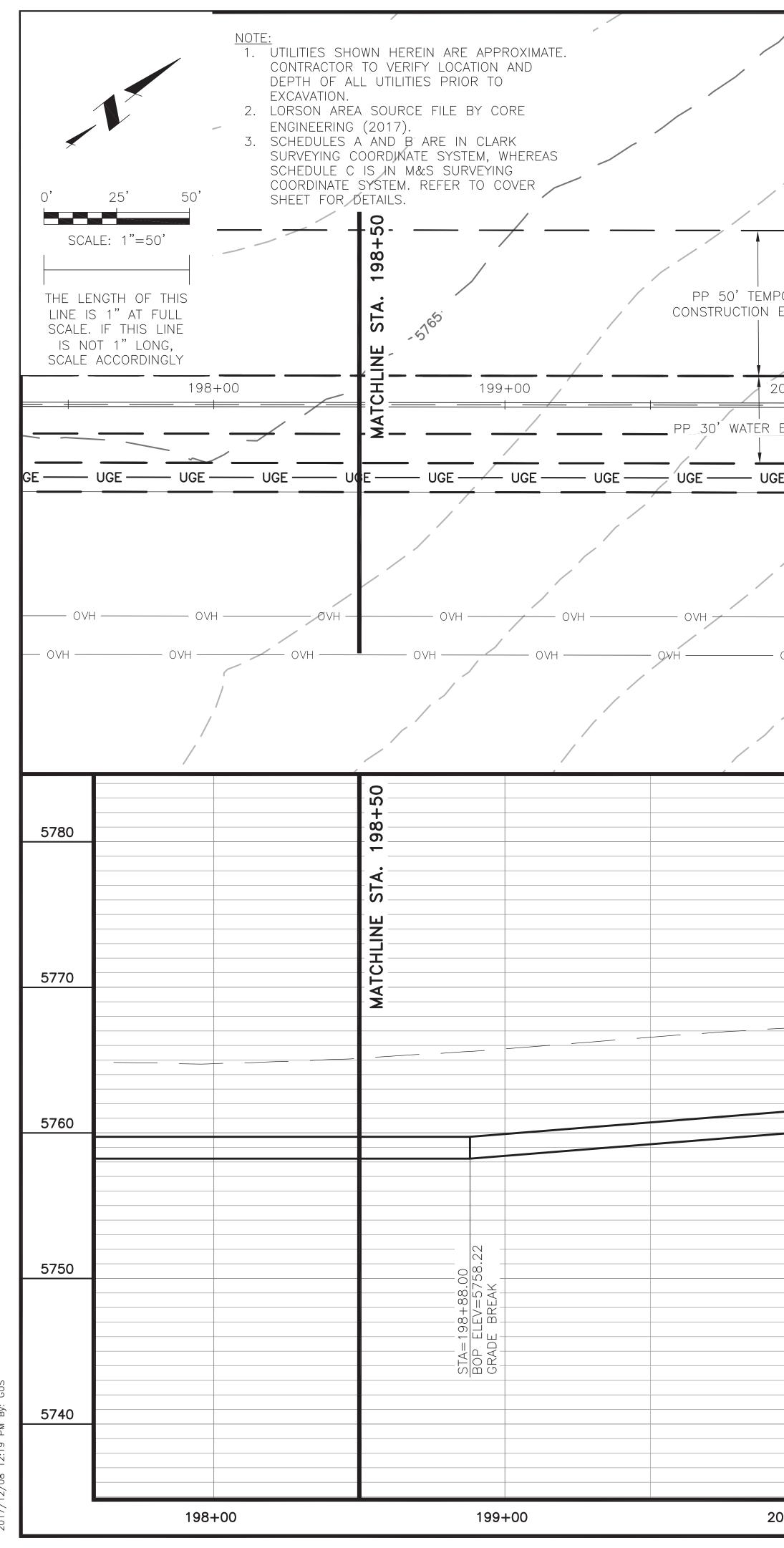
	(1) 18" BV			
	STA=189+11.54	STA. 189+36.95		
	ELEV= LL 22		STOF 'ER (
	W/THRUST BLOCK ROTATE TO PROVIDE VERT. DEFLECTION	MAX.1°,	3+15.40 RM CROSSIN SEWER RS) 	.5
19	-PP STORM CROSSING (SEWER LINE	DF_VERT. DEF /PIPE_DEFLEC D.P.=5744.82 @ LOW PT.	D NG LINE A=189+11.5 =23389.98 =28588.72 22.5 MJ B THRUST BLO 190+00 190+00 UGE STA=1 PP STO SEWER	ATCHLINE
90+00	STORM BY OTH		4 END CK F VGE 89+40.93 ORM CROSSIN	5TA. 18
	ERS) <u> PROFILE SCALE</u> HORIZ1"=50 VERT1"=10'	· + 🖬	PP 50' TEMP CONSTRUCTION	38+00
	2		PORARY EASEMENT	
191-		RADE	BC CC TR J AT LC NO 91+00	
+00		PP GRAD	PP 10' SH ELEC EASE PP 10' ELEC	
			S IDING I FIL JD U 18" C9 R 18 PVC ARED MENT	
		STA. 191+65.47 BOP EL=5753.68	WATER	
1			192+00 UGE	
92+00			STITO	





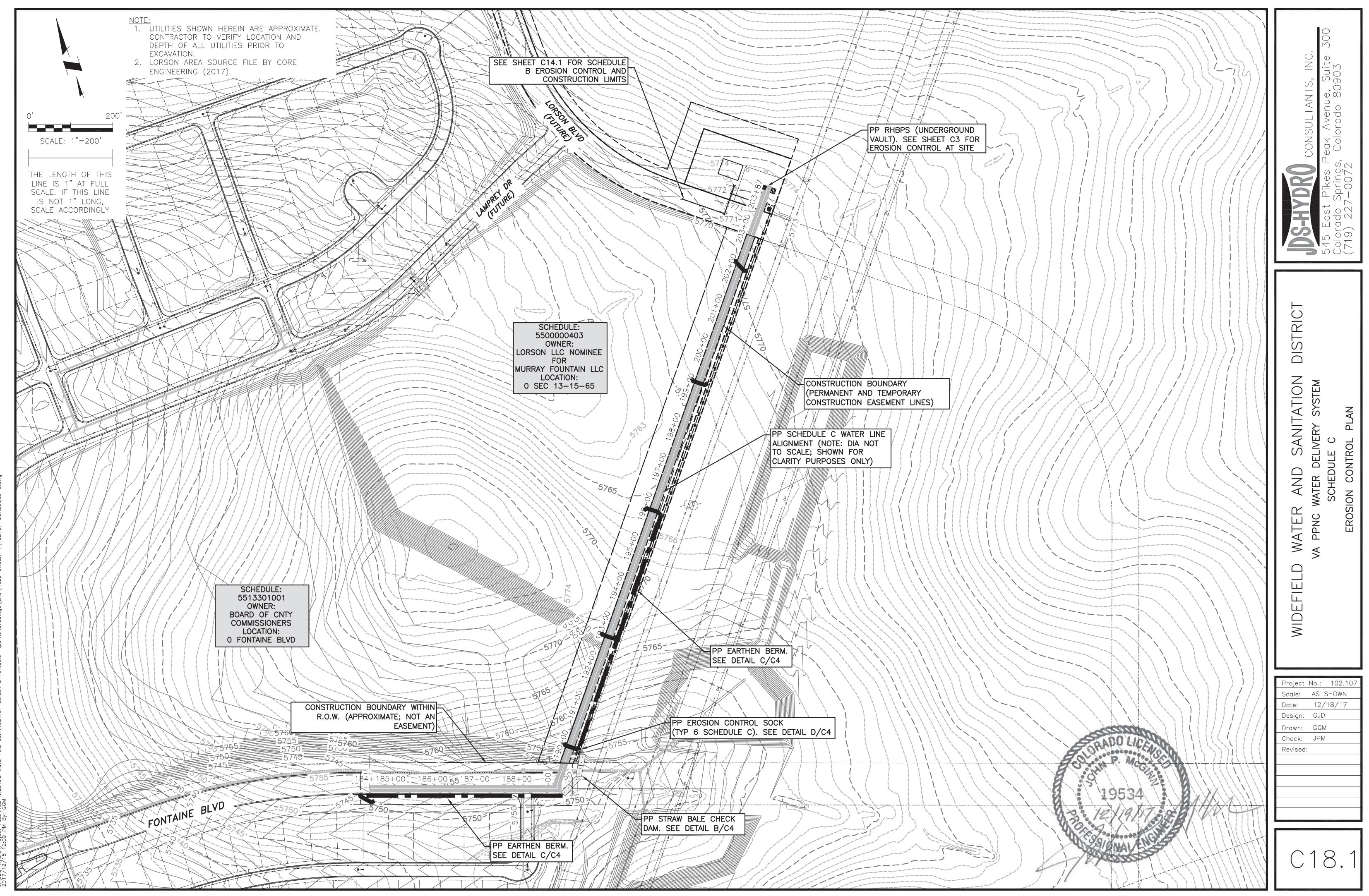
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PP 50' TEMPORARY CONSTRUCTION EASEMENT	196+00	197+00		MATCHLINE STA. 198+50 -20169- 100		Colorado Springs, Colorado 80903 (719) 227-0072
	PP 10' SHARED ELEC EASEMENT PP 10' ELEC EASEMENT	OVHOVH	OVH ØV	VH OVH	OVH	WIDEFIELD WATER AND SANITATION DISTRICT va ppnc water delivery system schedule c plan and profile STa. 192+50 to STA. 198+50
195+00 195+00	PROFILE SCALE HORIZ1"=50' VERT1"=10'	197+00	Image:		5750	Project No.: 102.107 Scale: AS SHOWN Date: 12/04/17 Design: KMG Drawn: KMG Check: JPM Revised:

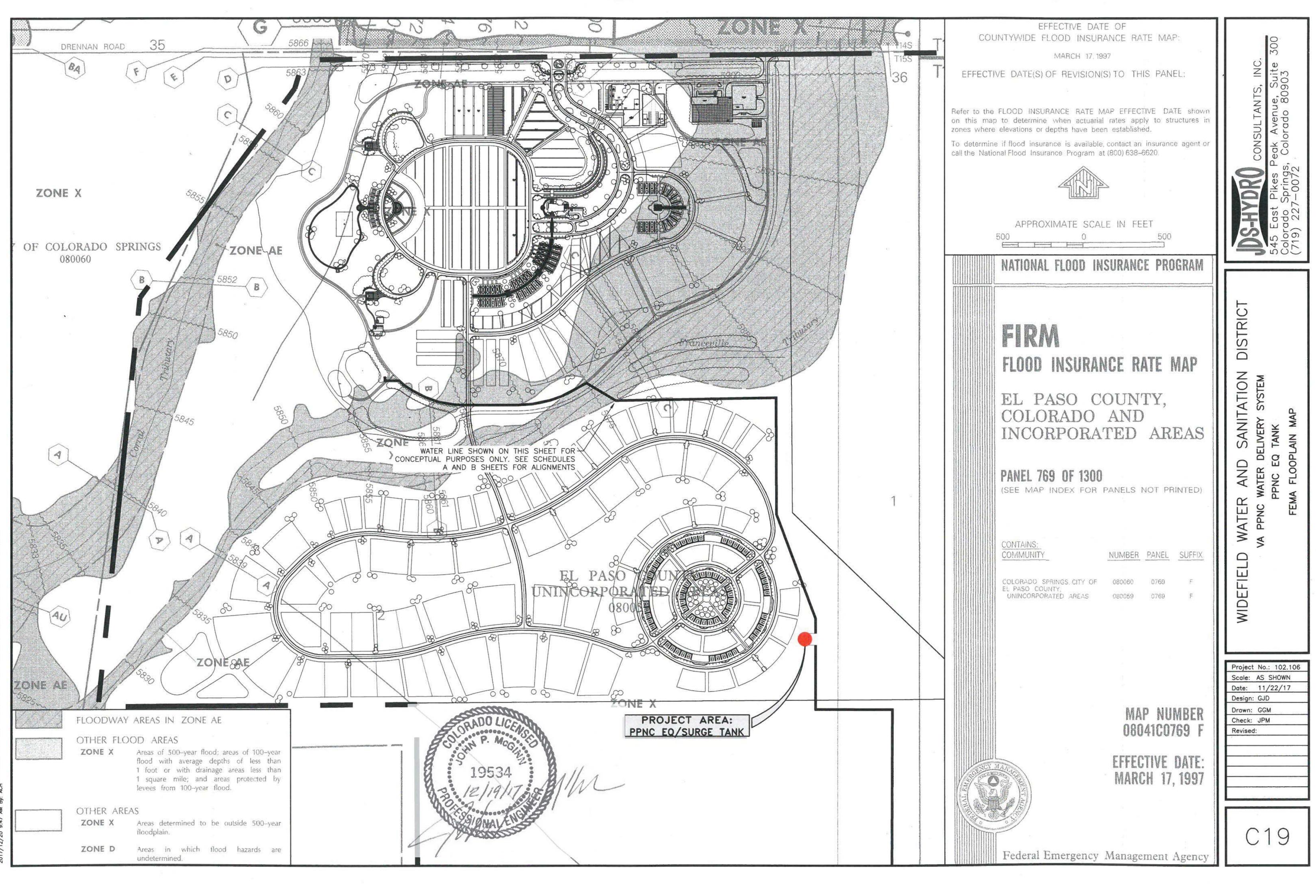


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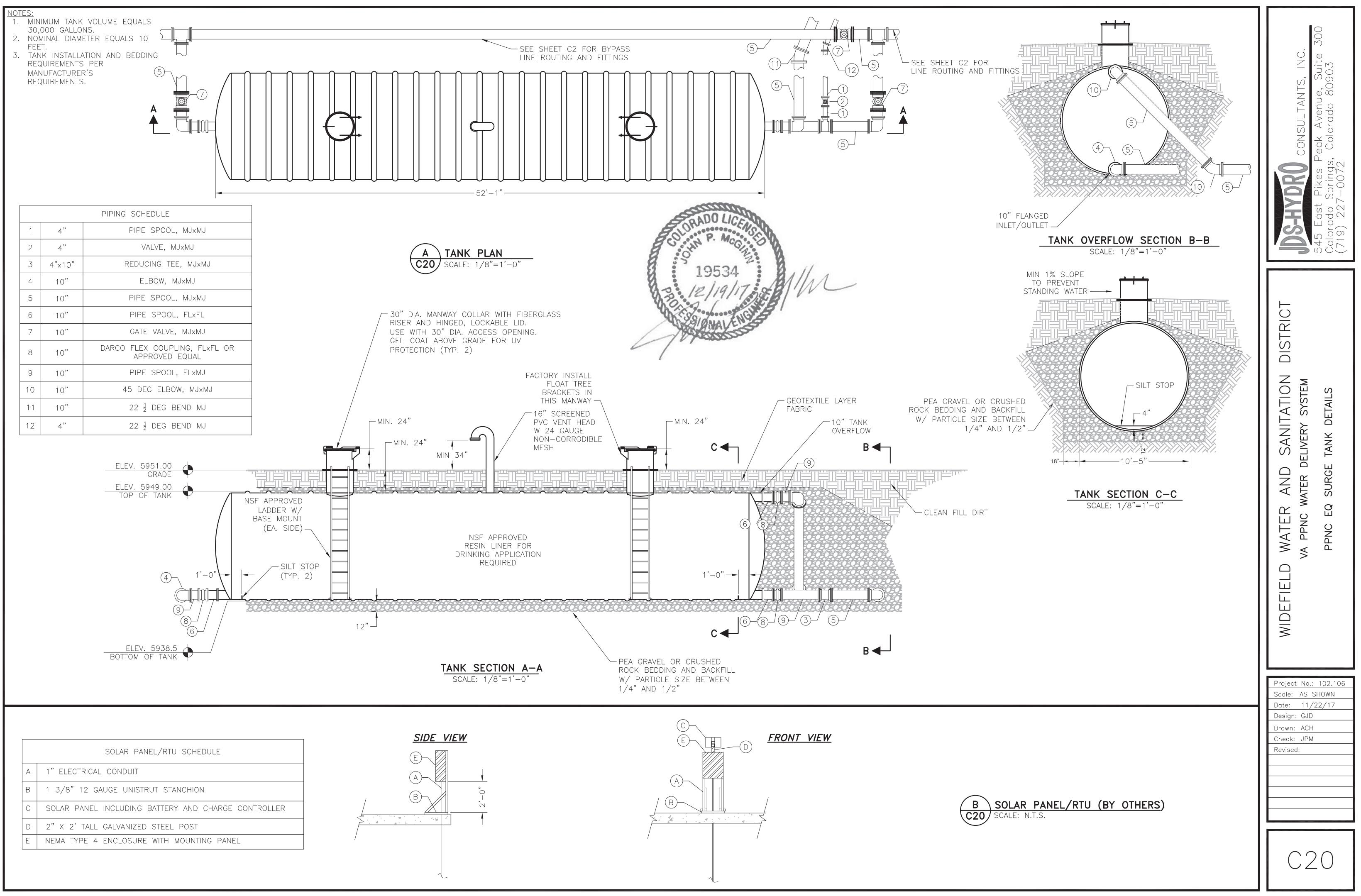
PORARY EASEMENT	SCHEDULE: 550000403 OWNER: LORSON LLC NOMINEE FO MURRAY FOUNTAIN LLC LEGAL: TR J POINEER LANDING AT LORSON RANCH FIL NO 2, ZONE: PUD	PP 16		C SHEETS DR SCH B BINNING STA DIPING		East Pikes Peak Avenue, Suite 300 227-0072
EASEMENT	UGE UGE UGE UGE UGE UGE UGE UGE UGE UGE 510 510 510 510 510 510 510 510		PP 18" SOV	OV SEE M SHEETS FOR RHRBPS		SANITATION DISTRICT IVERY SYSTEM C +50 TO STA. 203+87
	GRADE				5780	EFIELD WATER AND S va ppnc water del schedule Plan and profile Sta. 198
				STA=203+87.16 STA=203+87.16 BOP ELEV=5766.19 TIE INTO RHBPS PIPING MECH. SHEET C3 AND MECH. SHEET C3 AND MECH. SHEETS. END M&S COORDINATE SYSTEM	5760	Project No.: 102.107 Scale: AS SHOWN Date: 12/08/17 Design: GJD Drawn: KMG/GGM Check: JPM Revised:
00+00	19534 19534 12/19/17 4/1/1 201+00	202+00	203+00	PROFILE SCALE HORIZ1"=50' VERT1"=10' 204+00	5740	C18

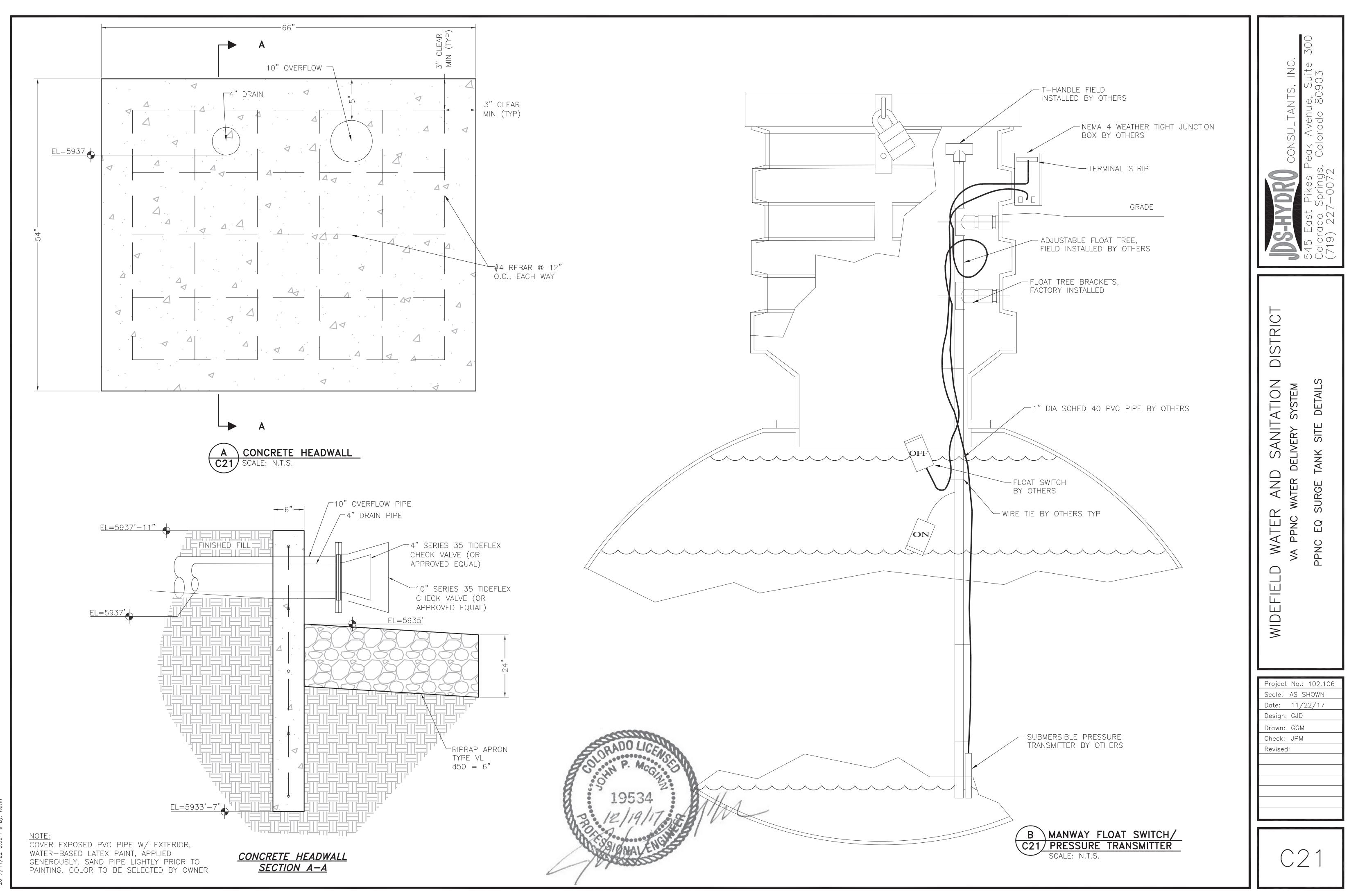


3-Hydro\Project Files\102 Widefield Water And San\102.107 Lorson E Fontaine Pipeline\Drawings\CAD\FIELD 0RDER_1\102107_SCHEDULI



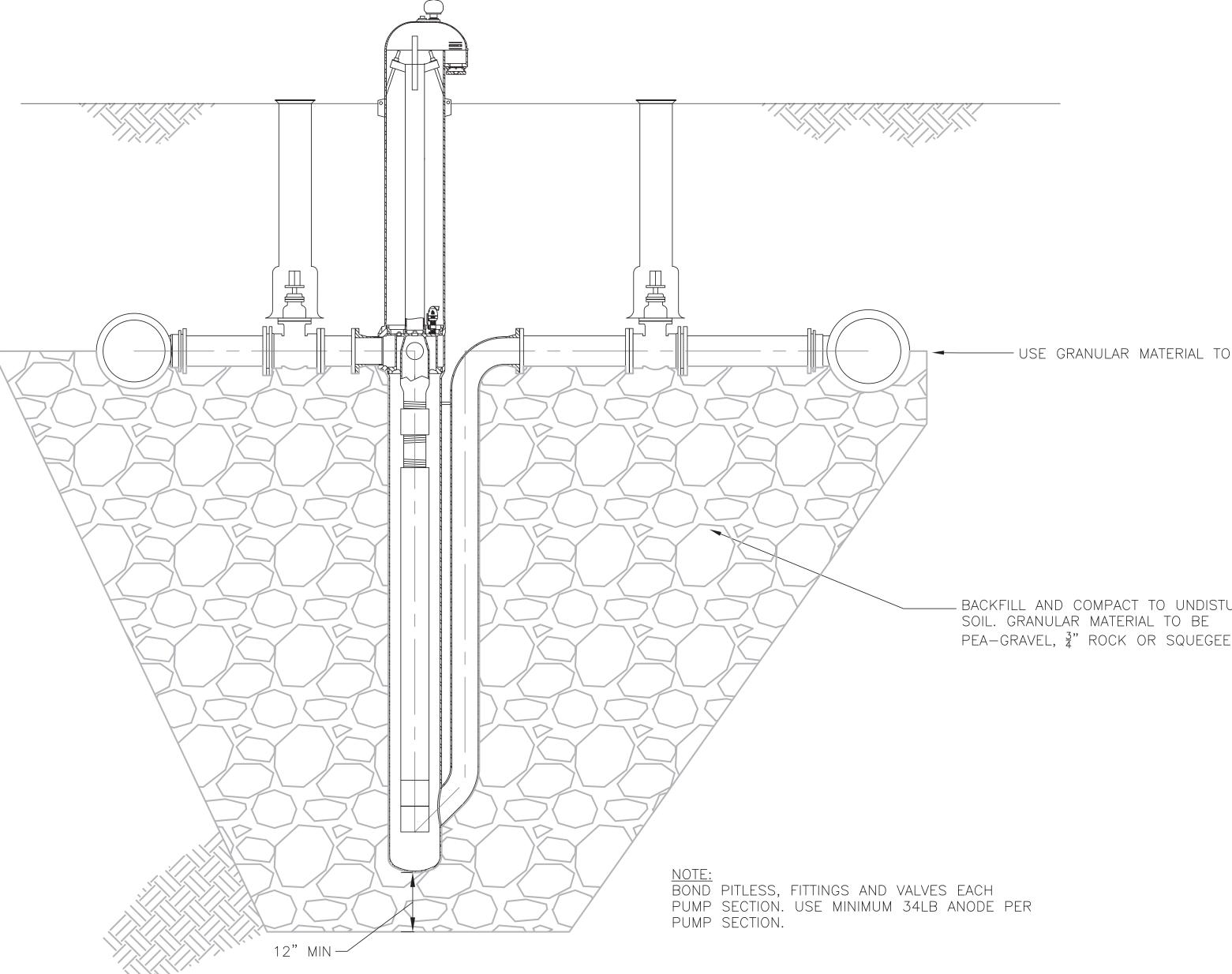
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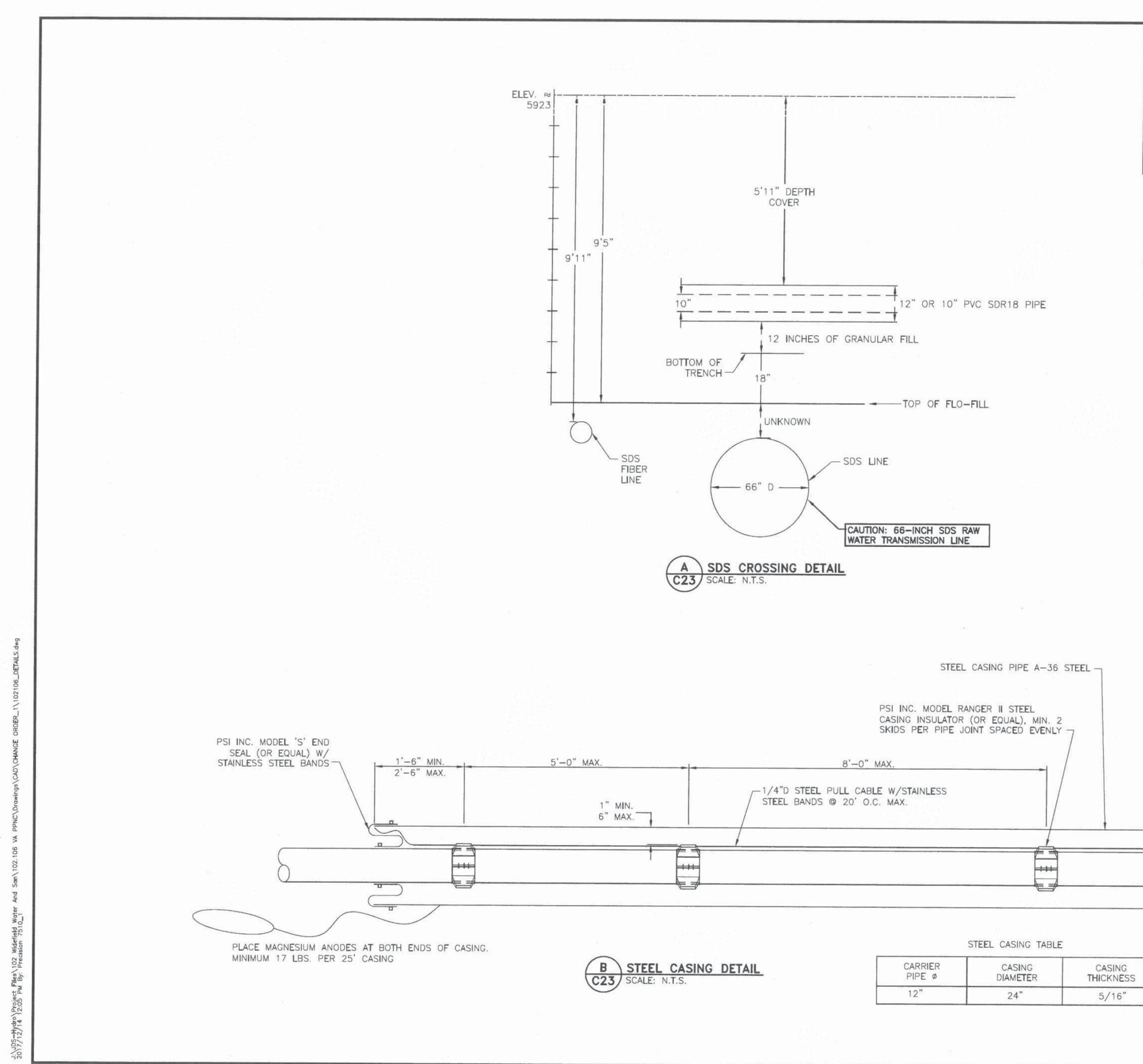
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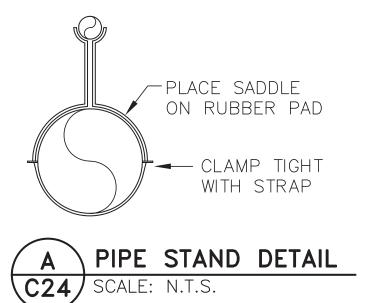
	DescriptionConsultants, INC.545 East Pikes Peak Avenue, Suite 300545 East Pikes Peak Avenue, Suite 300545 Undo Springs, Colorado 80903(719) 227-0072
TURBED TE	WIDEFIELD WATER AND SANITATION DISTRICT va ppnc water delivery system civil details
SOLUTION P. MCG SOLUTION P. MCG 19534 12/19/17	Project No.: 102.106 Scale: AS SHOWN Date: 11/22/17 Design: GJD Drawn: GUS/TLM Check: JPM Revised:
Signal/Ellipson	C22



COLORADO SPRINGS UTILITIES PLAN APPROVAL APPROVED BY: Jan	DSHADRO DSHADRO CONSULTANTS, INC. 545 East Pikes Peak Avenue, Suite 300 Colorado Springs, Colorado 80903 (719) 227–0072
	WIDEFIELD WATER AND SANITATION DISTRICT va ppnc water delivery system civil details
19534 Barrier P. McGiner 19534 Barrier Manuelland	Project No.: 102.106 Scale: AS SHOWN Date: 12/14/17 Design: GJD Drawn: TLM Check: JPM Revised:

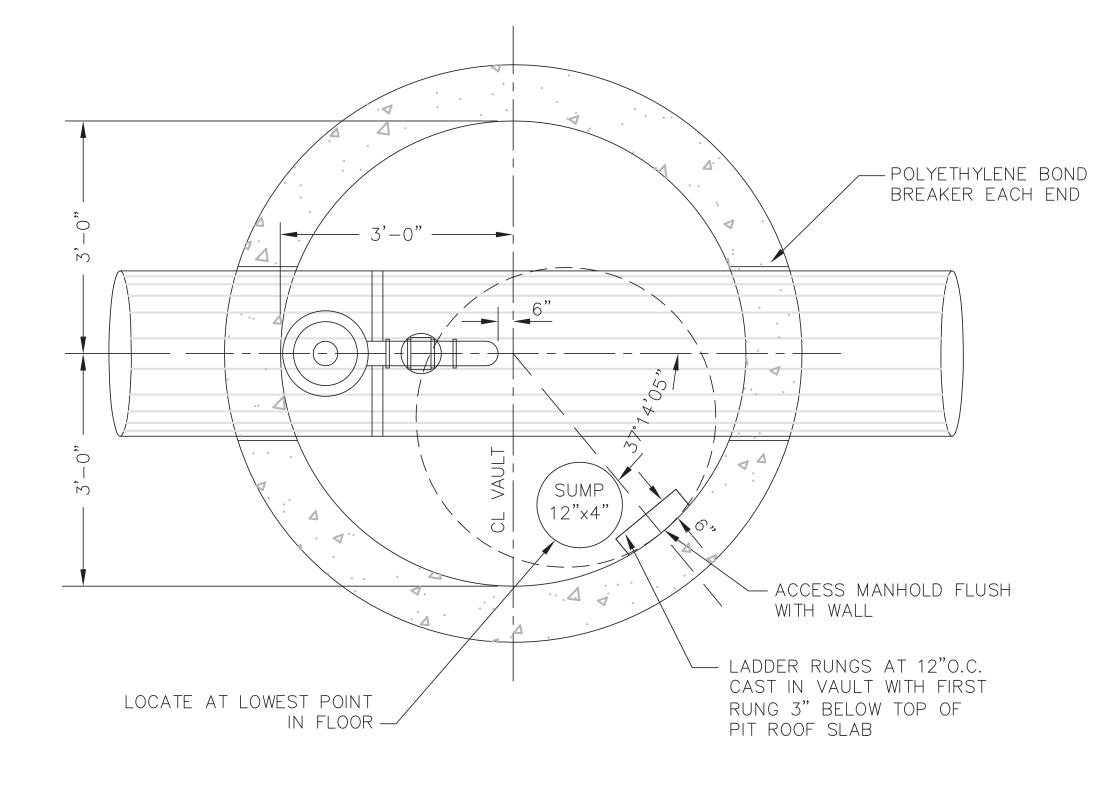
<u>NOTES:</u>

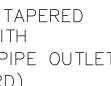
1. ALL CONCRETE WORK SHALL COMPLY WITH LATEST ACI-318 SPECIFICATIONS. 2. AIR VALVE ASSEMBLY LARGER THAN 2" SIZE OR FOR MAINS LARGER THAN 16" SHALL BE SPECIALLY DESIGNED AND MEET WATER DISTRICT REQUIREMENTS. 3. ALL SUPPORT MATERIALS SHALL BE GIVEN 2 COATS OF RUST INHIBITIVE PAINT. 4. ALL LADDER RUNGS MUST LINE UP BOTH HORIZONTALLY AND VERTICALLY. 5. ALL SMALL DIAMETER PIPE AND AIR RELEASE VALVE SHALL BE WRAPPED WITH INSULATION AND TAPED.

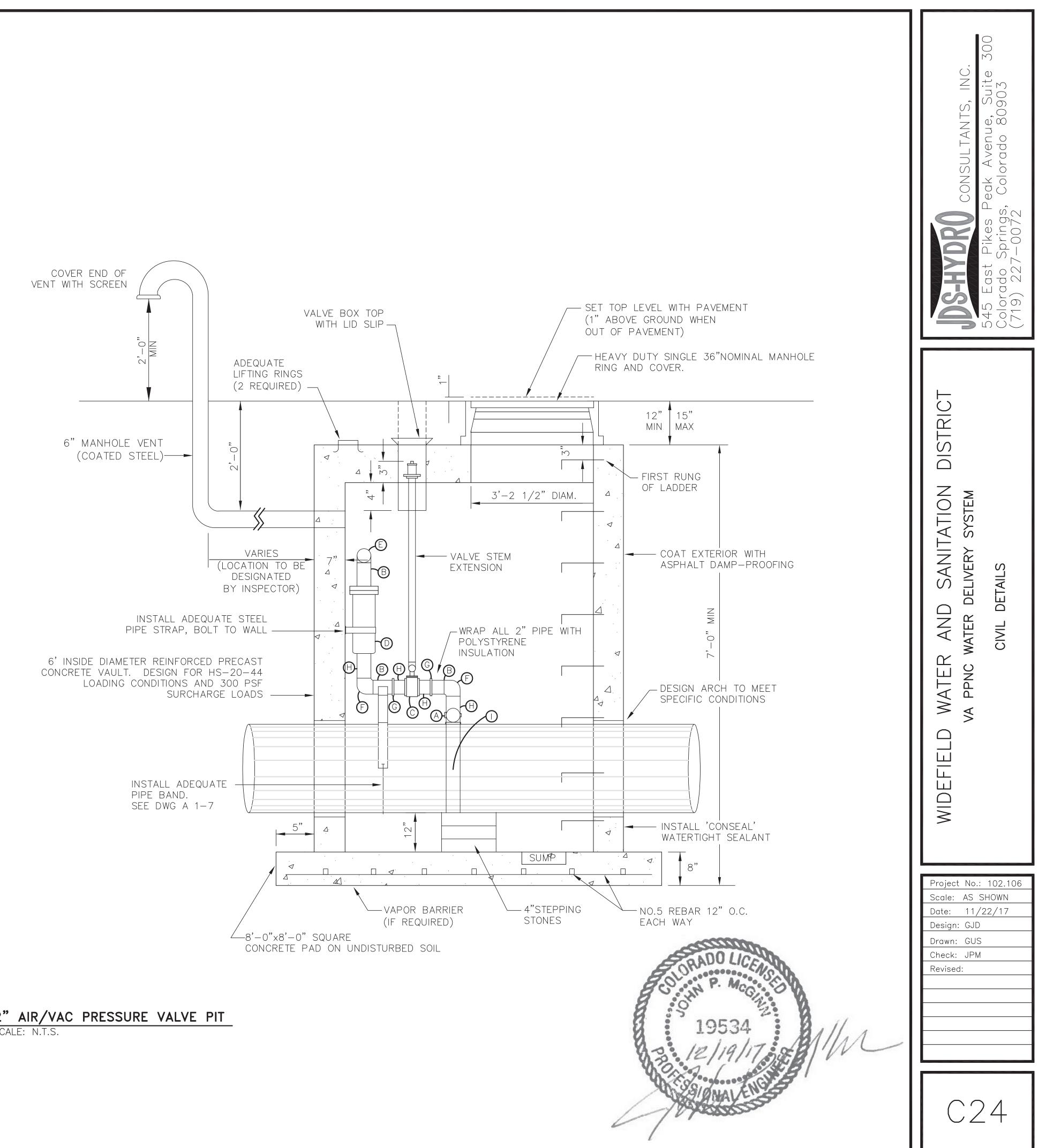




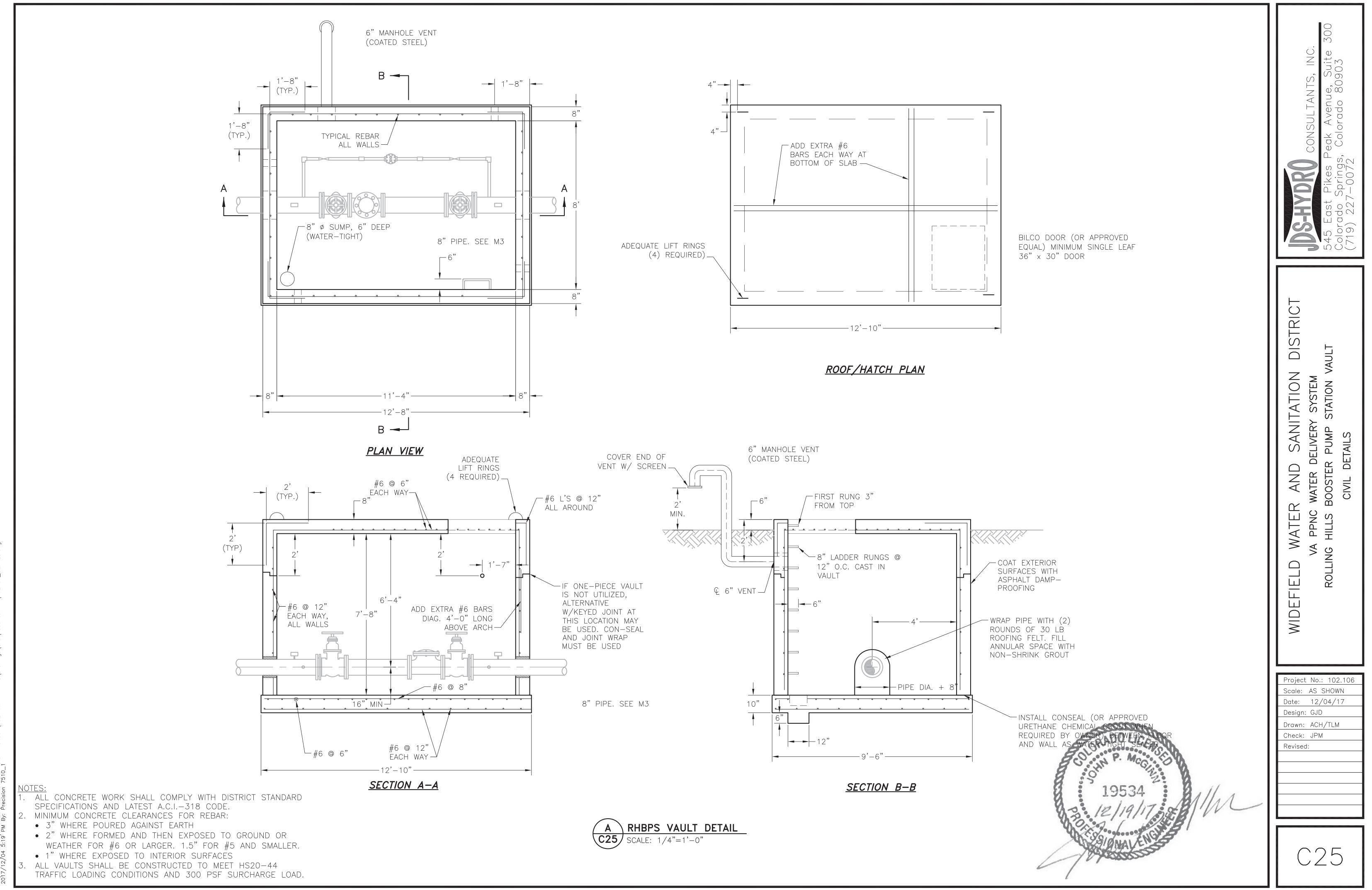
- A 2" CORPORATION TAPERED THREADS INLET WITH 2" FEMALE IRON PIPE OUTLET (MUELLER OR FORD)
- B 2" CLOSE THREADED BRASS NIPPLE
- 2" THREADED GATE VALVE WITH (C)STANDARD OPENING NUT
- (D) 2" THREADED INLET VAL-MATIC AIR/VACUUM COMBINATION AIR VALVE, MODEL 202C
- (E) 2"x90° PLASTIC ELBOW
- (F) 2"x90° BRASS THREADED ELBOW
- G 2" QUICK COUPLER
- (H) 2" THREADED BRASS NIPPLE
- 2" ROMAC MODEL 202BS TAPPING SADDLE



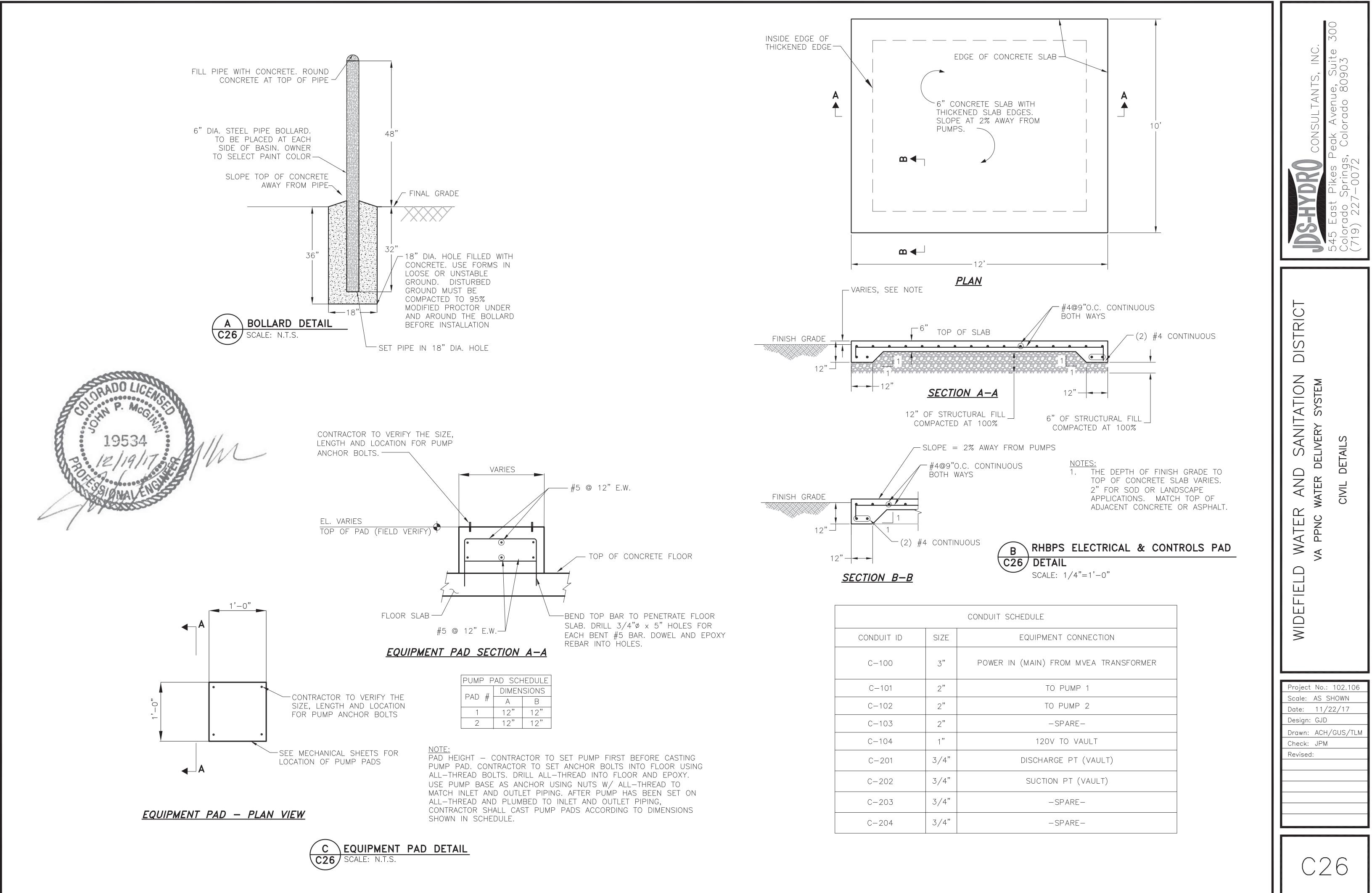




2" AIR/VAC PRESSURE VALVE PIT B C24 SCALE: N.T.S.

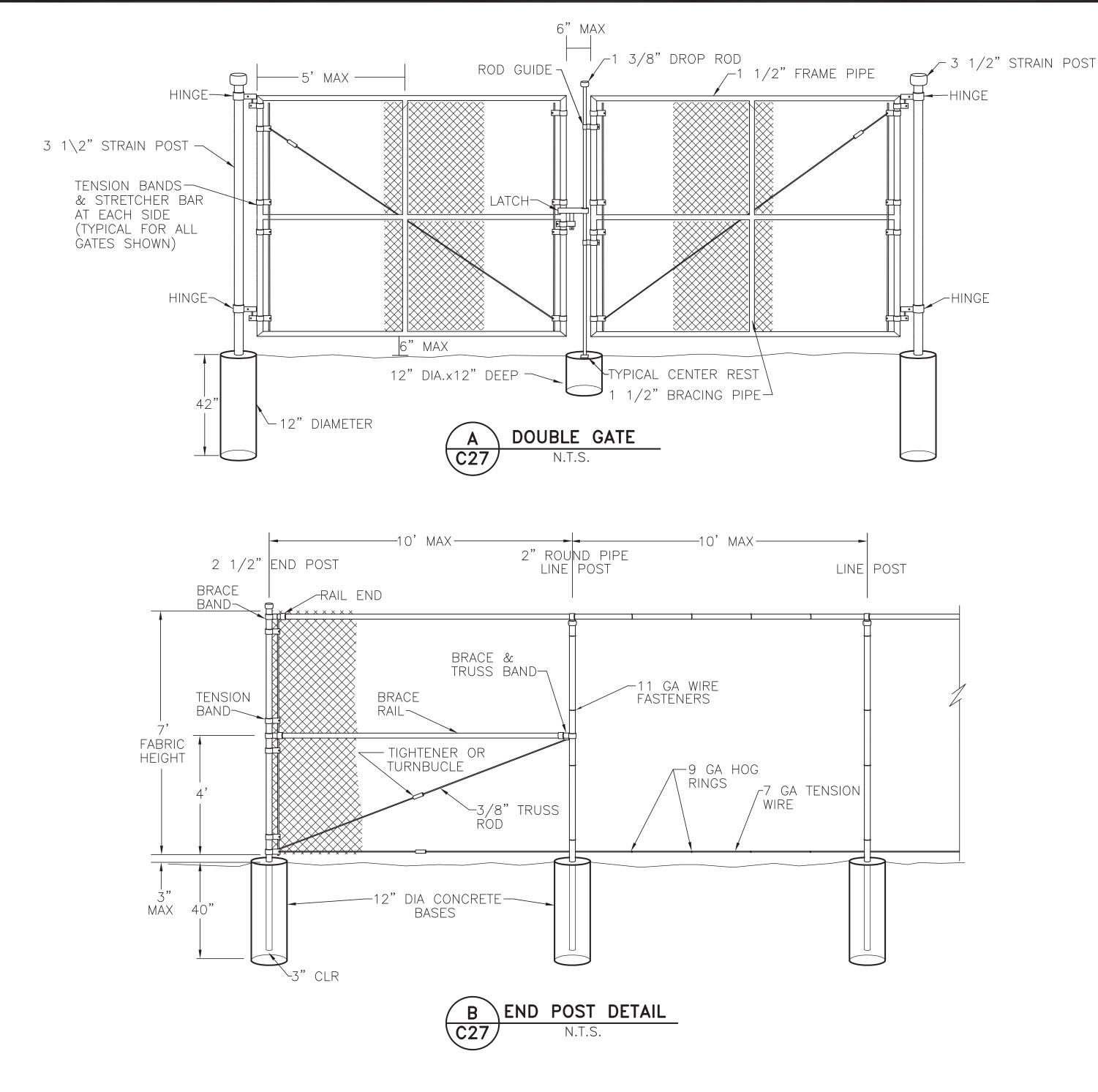


JDS-Hydro\Project Files\102 Widefield Water And San\102.106 VA PPNC\Drawings\CAD\Addendum 1\102106_DETAILS.



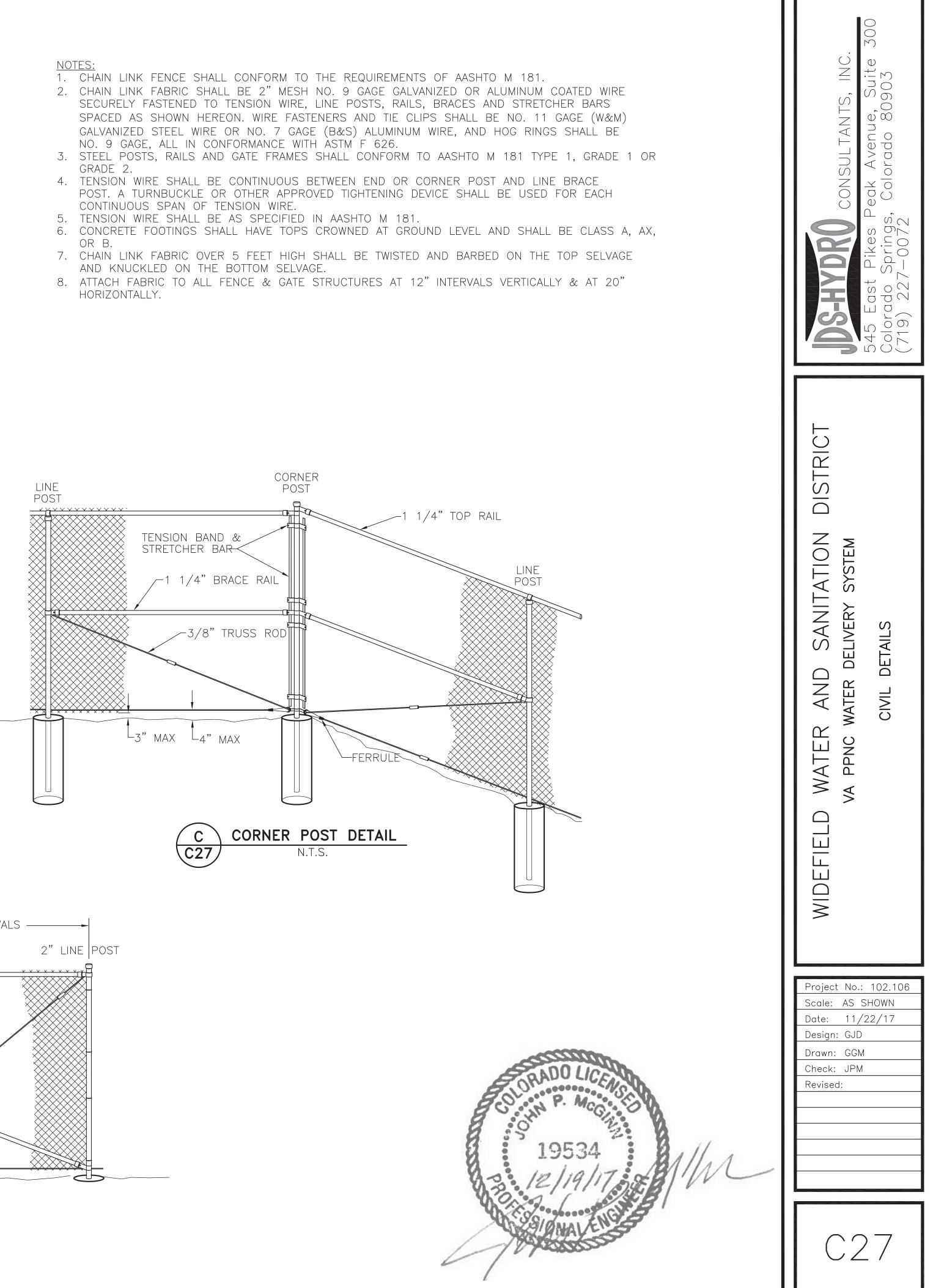
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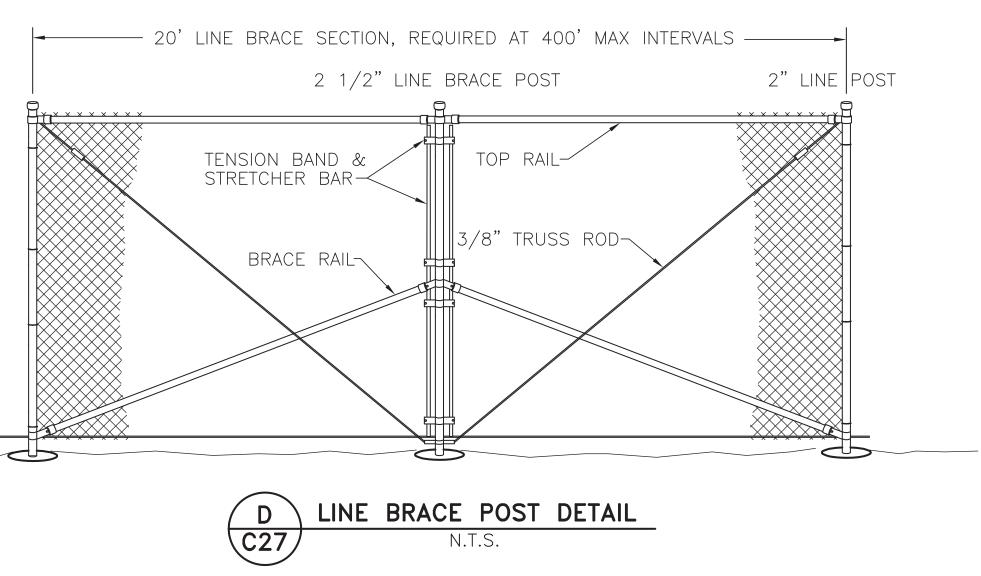
PUMP P	AD SCH	IEDULE				
	DIMENSIONS					
PAD #	А	В				
1	12"	12"				
2	12"	12"				

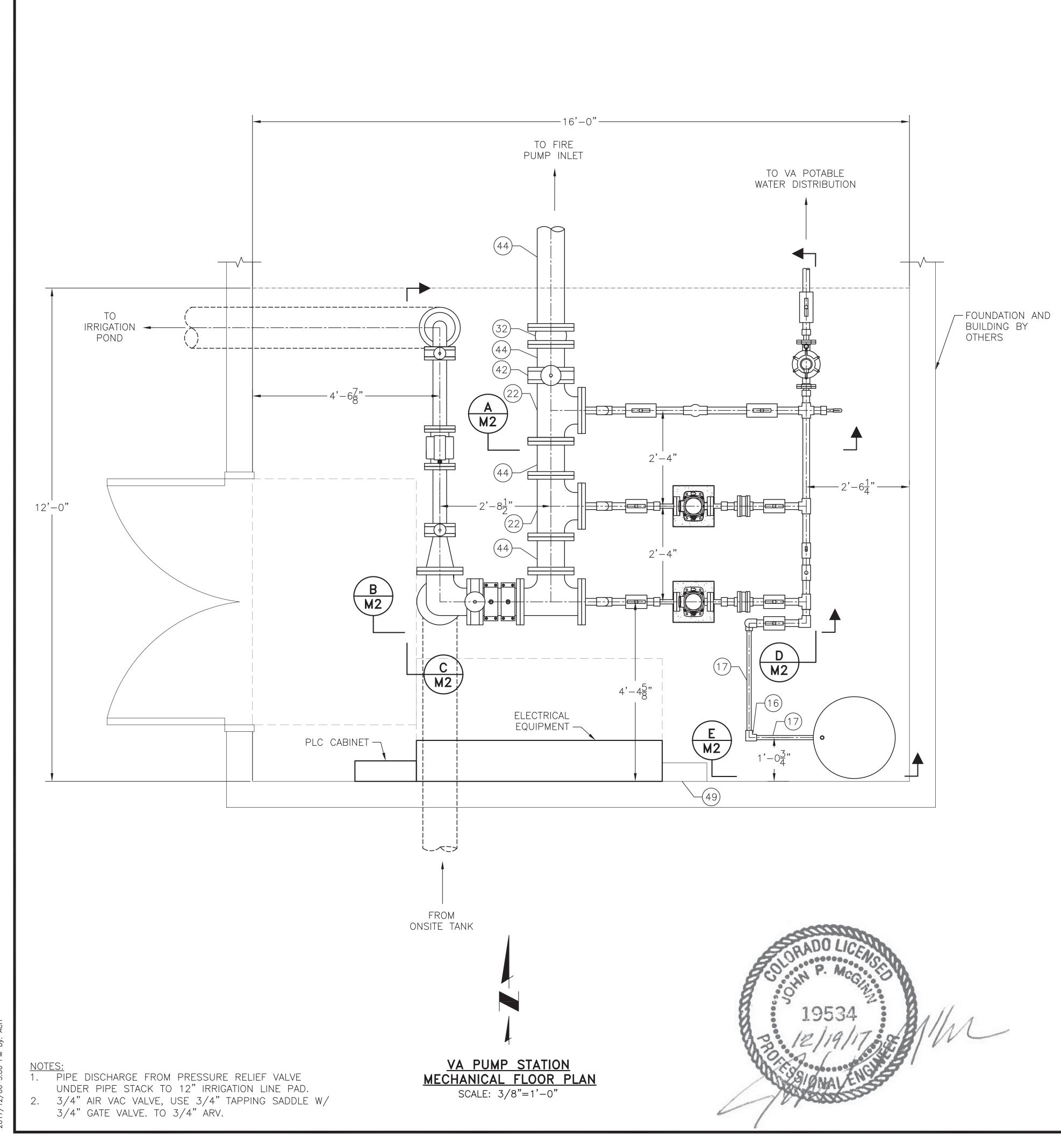


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- GRADE 2.
- CONTINUOUS SPAN OF TENSION WIRE.
- OR B.
- HORIZONTALLY.

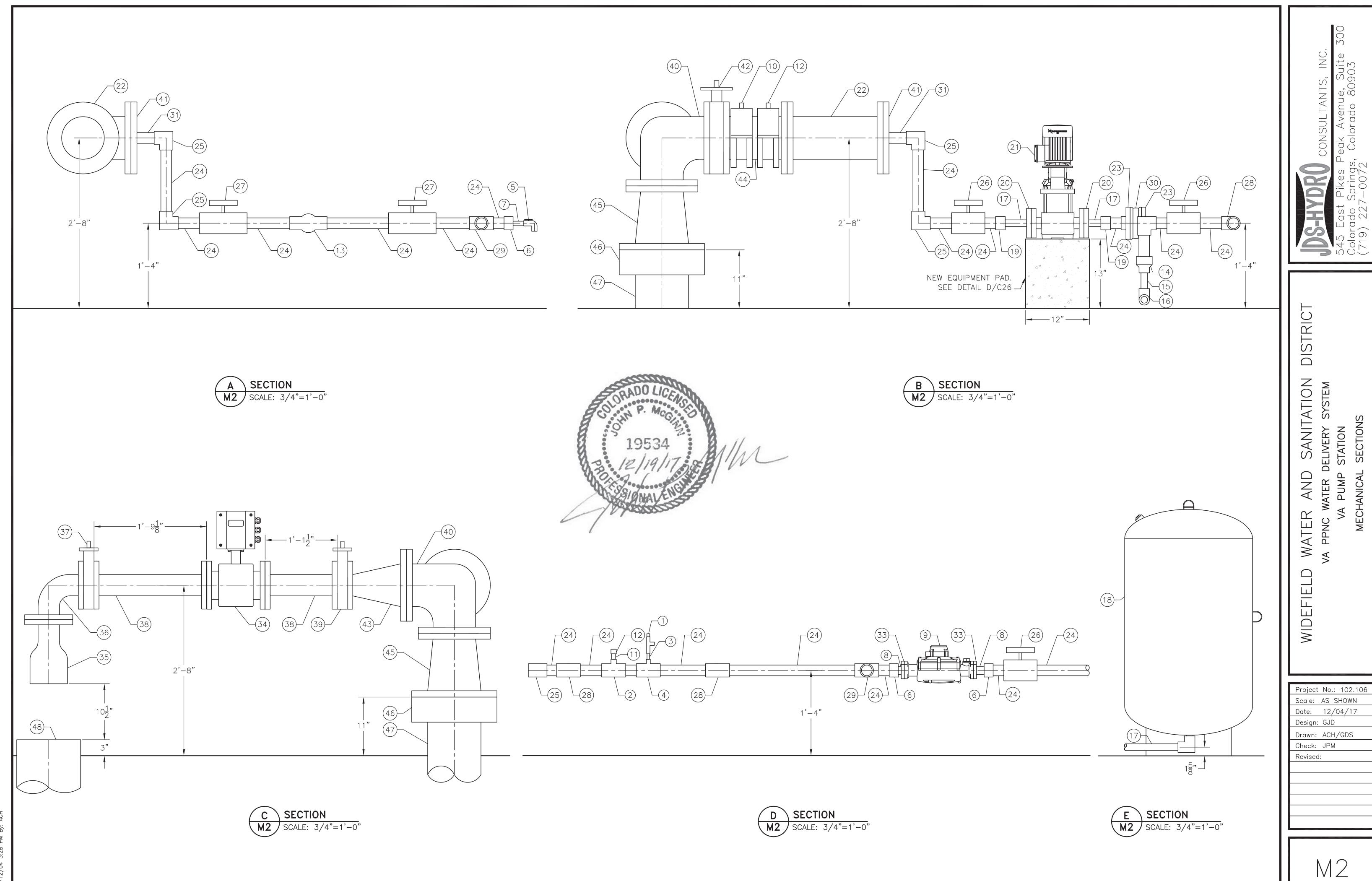




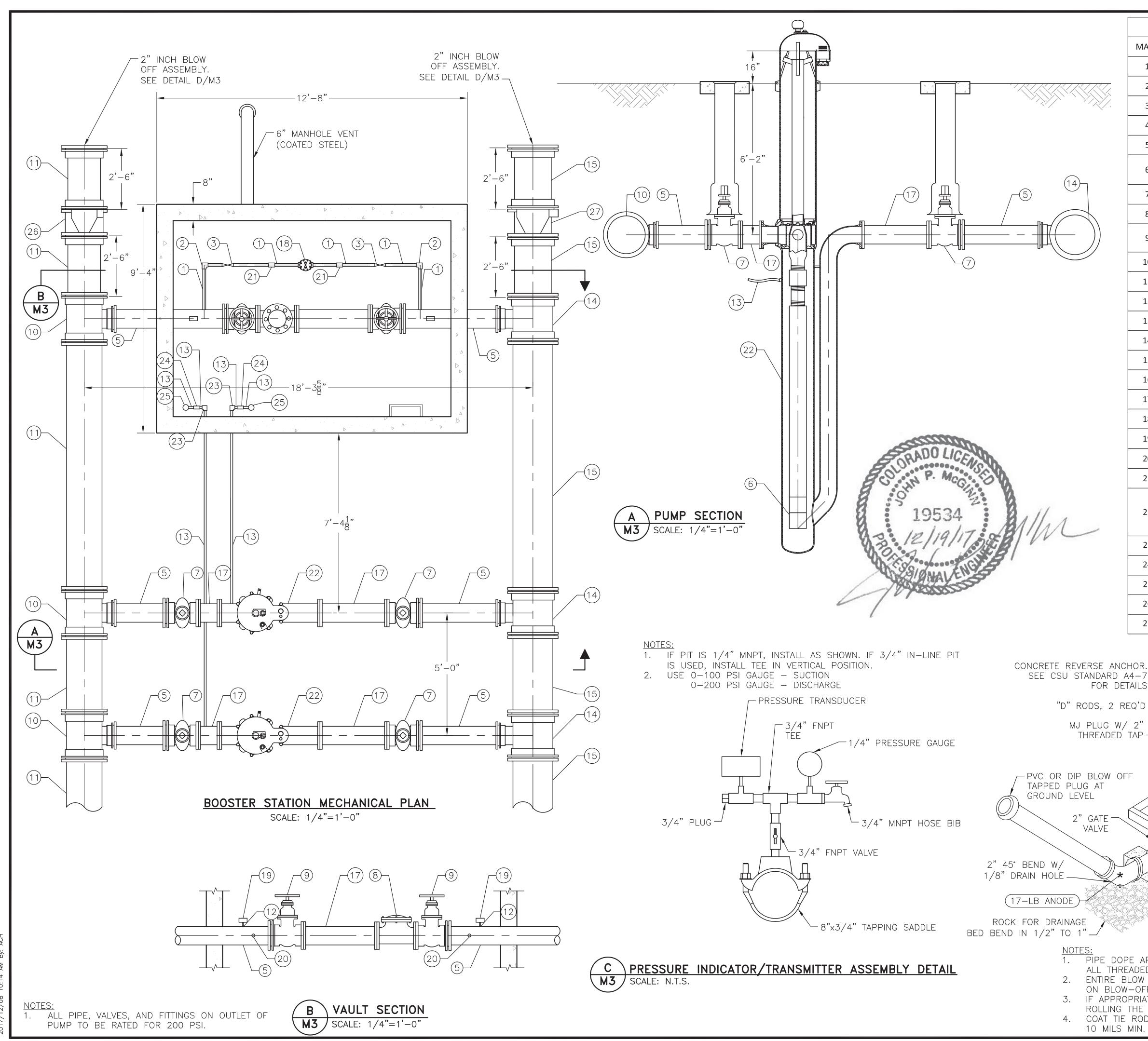


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		SCHEDULE	
MARK	SIZE	DESCRIPTION	00 200
1	1/2"	PRESSURE RELIEF VALVE, SET AT 125 PSI. SEE NOTE 1	υŪ
2	3/4"x2"	TEE, S80 PVC	
3	1/2"	PIPE SPOOL, SOCKET X MNPT	e, Su 8090.
4	1/2" X 2"	TEE, S80 PVC	Enue do 8
5	3/4"	SAMPLE VALVE, BRASS, FNPT (THREADED HOSE OUTLET)	CONSULTANTS, eak Avenue, S Colorado 809
6	1-1/2" X 2"	BUSHING, REDUCING, S80 PVC, SOCKET X FNPT	
7	3/4"	PIPE SPOOL, MNPT X MNPT	
	1-1/2"	PIPE SPOOL, MNPT X MNPT	ings 072
9	1-1/2"	METER, BADGER, TURBO, RECORDALL (BY OWNER)	Sprike
10	3/4"	COMBINATION AIR/VACUUM RELIEF VALVE. SEE NOTE 2	
10	3/4"	PIPE SPOOL, SOCKET X MNPT	
	3/4"	PIT TAP (SEE DETAIL C/M3)	19 19 19
12		· · · ·	
13	2"		
14	1-1/4" X 2"		
15	1-1/4"	PIPE SPOOL, S80 PVC, SOCKET X SOCKET	
16	1-1/4"	ELBOW, S80 PVC, SOCKET X FNPT	DISTRIC
17	1-1/4"	PIPE SPOOL, MNPT X MNPT	
18	1-1/4"	WELLX-TROL WX404 WITH FNPT ELBOW	
19	1-1/4" X 2"	BUSHING, REDUCING, S80 PVC, SOCKET X FNPT	
20	1-1/4"	FLANGE, W/1-1/4" THREADED TAP, BLACK, 250# GRUNDFOS OR EQUAL TO MATCH PUMP	SANITATION CLIVERY SYSTEM STATION PLAN/SCHEDULE
21	1-1/4"	PUMP, CENTRIFUGAL, VERTICAL GRUNDFOS MODEL # CR3-9	ATI YS1
22	8"	TEE, DUCTILE IRON	Scr Scr
23	2"	FLANGE, S80 PVC, SOCKET	
24	2"	PIPE SPOOL, S80 PVC, SOCKET X SOCKET) SANI ⁻ delivery station r plan/s
25	2"	ELBOW, S80 PVC, SOCKET	
26	2"	VALVE, BALL, FULL BORE, S80 PVC, SOCKET X SOCKET	AND ATER D PUMP FLOOR
27	2"	VALVE,TRUE UNION, BALL, FULL BORE, S80 PVC, SOCKET X SOCKET	
28	2"	TEE, S80 PVC	ATEF PPNC
29	2"	CROSS, S80 PVC	WATER va ppnc v va Mechanical
30	2"	VALVE, CHECK, DUAL DISC, WAFER, DUCTILE IRON	VA VA
31	2"	PIPE SPOOL, S80 PVC, MNPT X SOCKET	
32	8"	VALVE, CHECK, DUAL DISC, WAFER, DUCTILE IRON	
33	1-1/2"	ELIPTICAL FLANGE, 1-1/2" FNPT	
34	4"	METER, BADGER, ELECTROMAGNETIC, M2000 (BY OWNER)	MIDEFIEL
35	4"	VALVE, CHECK, FLANGED, TIDEFLEX SERIES 35	
36	4"	ELBOW, DUCTILE IRON	
37	4"	VALVE, BUTTERFLY, ELECTRONICALLY ACTUATED	
38	4"	PIPE SPOOL, FLANGE X FLANGE, DUCTILE IRON	Project No.: 102.106 Scale: AS SHOWN
39	4"	VALVE, BUTTERFLY, LUG STYLE	Date: 12/06/17
40	8"	ELBOW, SIDE OUTLET, DUCTILE IRON, FLANGED	Design: GJD Drawn: GGM/ACH/GDS
41	8"	FLANGE W/ 2" FNPT	Check: JPM
42	8"	VALVE, BUTTERFLY, LUG STYLE	Revised:
43	8" X 4"	REDUCER, CONCENTRIC, DUCTILE IRON	
44	8"	PIPE SPOOL, DUCTILE IRON	
45	10" X 8"	REDUCER, CONCENTRIC, DUCTILE IRON	
46	10"	FLANGE ADAPTER, RESTRAINED TO CONNECT TO PLAIN END DUCTILE IRON	
47	10"	PIPE SPOOL, DUCTILE IRON	
48	12"	PIPE SPOOL, DUCTILE IRON	Ν <i>1</i>
49		HACH CHLORINE RESIDUAL ANALYZER (BY OWNER)	

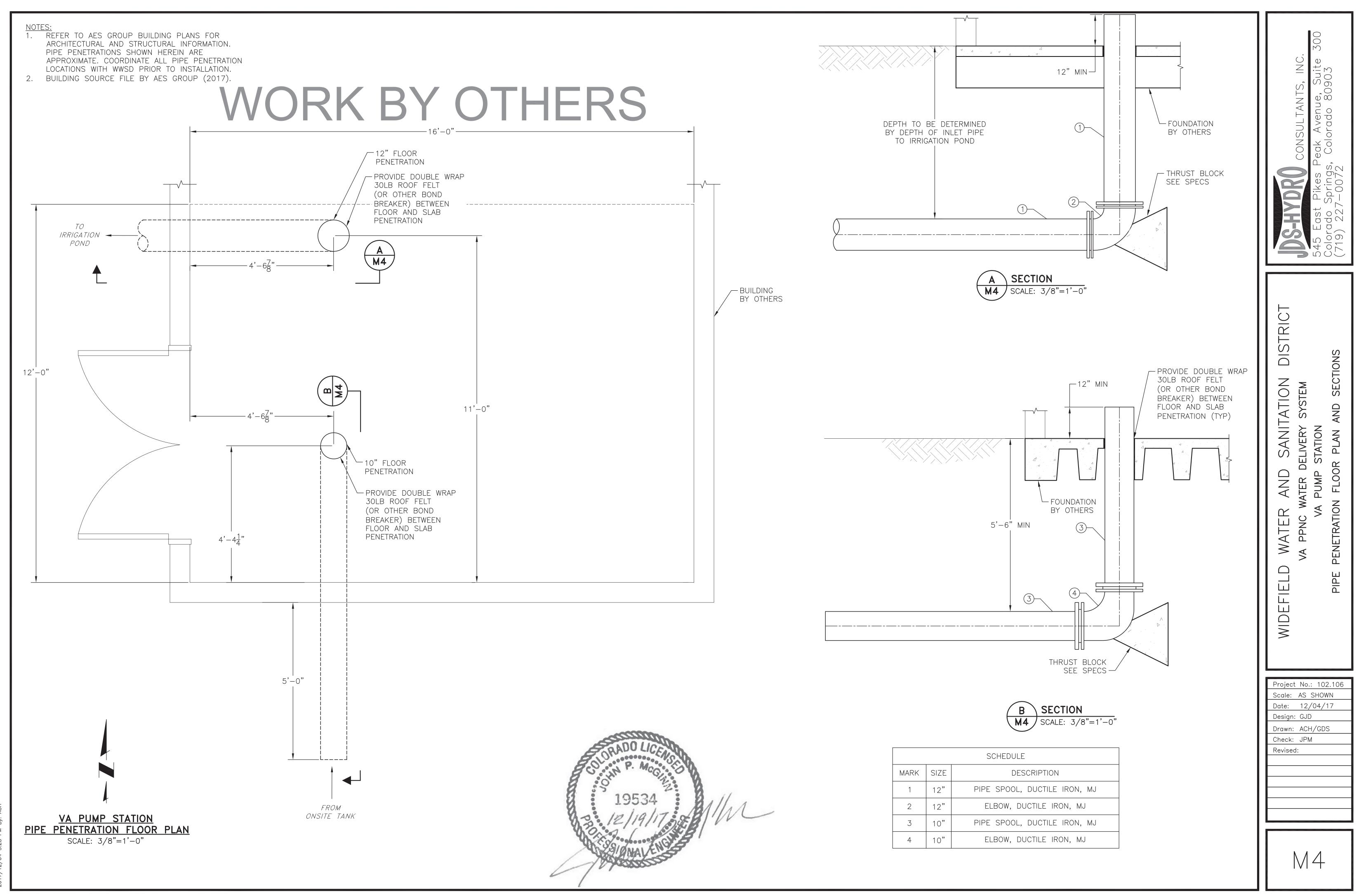


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			SCHEDULE	
	MARK	SIZE	DESCRIPTION	300
	1	1-1/2"	PIPE SPOOL, MNPT X MNPT S40, HOT DIP GALVANIZED STEEL	
	2	1-1/2"	ELBOW, GALV, FNPT	Mit IN
	3	1-1/2"	GATE VALVE, GALV, FNPT	TS, 3090
	4	1-1/2"	PRESSURE CONTROL VALVE, FNPT	TANTS, enue, S do 809
	5	8"	PIPE SPOOL, DUCTILE IRON, MJ X MJ	Ave rad
\frown	6	8"	PUMP, GOULDS, STAINLESS STEEL SUBMERSIBLE PUMP W/ 15 HP 3PH MOTOR, 6" DIA MODEL 320L15	Colora
(14)	7	8"	VALVE, GATE, RESILENT, FL X MJ W/ 2" SQUARE HEAD	Si D
	8	8"	CHECK VALVE, FLANGED	kes 00700
	9	8"	VALVE, GATE, RESILENT, FL X MJ W/ HANDWHEEL, OPEN RIGHT	st Pij 27-0
	10	16" X 8"	REDUCING TEE, DUCTILE IRON, MJ X MJ	
	11	16"	PIPE SPOOL, PVC C905, PE X PE	19)
	12	1/2"	THREADED TAP	
	13	1"	HDPE PIPE	
	14	18" X 8"	REDUCING TEE, DUCTILE IRON, MJ X MJ	
	15	18"	PIPE SPOOL, PVC C905, PE X PE	
	16	18"	TEE, DUCTILE IRON, MJ X MJ	SIC
	17	8"	PIPE SPOOL, DUCTILE IRON, PE X PE	DISTRIC ⁻
	18	1-1/2"	CLA-VAL 50-01, PRESSURE RELIEF ANSI 150, THRD, 20-200 PSI	AIL AIL
	19	1/2"	PRESSURE INDICATOR/TRANSMITTER (SEE DETAIL C/M3)	E
	20	1-1/2"		
	20	1-1/2"	UNION, THREADED	TI(VST ON DUL
1	21	8"	MONITOR 5.5 PS1618WBWX18F8138FE2 PITLESS, (5.5' BURY DISCHARGE AND INLET, 16" DIA X 13" LONG TANK, 8" DROP PIPE, 8" F; DISCHARGE AND INLET CONNECTION, SEALED	AND SANITATION Mer delivery system Mer Pump station Sections/schedule/d
C			CONDUIT CONNECTION) SA DELIVE PUMP FIONS/
	23	1"	ELBOW, THREADED	R D CTI
	24	1"	VALVE, BALL	
	25	1"	AIR VAC	ER AN[NC WATER BOOSTER PLAN/SEC
	26 27	16"	VALVE, BUTTERFLY, MJ X MJ VALVE, BUTTERFLY, MJ X MJ	
	27	10		WAT VA PPI RH NICAL
E REVERSE AND CSU STANDARD FOR DE "D" RODS, 2 R MJ PLUG W THREADED	A4-7 TAILS REQ'D / 2" TAP			WIDEFIELD WA va pr Rh Rh
D PLUG AT ND LEVEL 2" GATE VALVE NODE RAINAGE ' TO 1"			Image: marked bit with the second	Project No.: 102.106 Scale: AS SHOWN Date: 12/08/17 Design: GJD Drawn: ACH/GDS Check: JPM Revised:
NOTES:				
ALL THR 2. ENTIRE E ON BLOV 3. IF APPRO ROLLING	EADED JO BLOW OFF W-OFF PIF OPRIATE L THE BEN E RODS, E	INTS. ASSEMBLY PING. OCATION F D, ADDITION	USE IN POTABLE WATER SYSTEMS MUST BE USED ON 7 MUST BE FULLY SUPPORTED SO NO LOAD BEARS OR DISCHARGED WATER CANNOT BE REACHED BY NAL BENDS MAY BE REQUIRED. 9 BLACK IRON PIPE WITH EPOXY POLYAMIDE COATING,	M3



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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURES	_	SPECIAL SYSTEM SYMBOLS
	RECESSED FLUORESCENT LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		PUSHBUTTON OPERATOR. CEILING MOUNTED SPEAKER
		୍ ତ୍ର ସ	WALL MOUNTED SPEAKER
0	SURFACE FLUORESCENT LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	e. M	NURSE/EMERGENCY CALL BUTTON NURSE/EMERGENCY CALL BUTTON
_ ●	FLUORESCENT STRIP LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		COMMUNICATION SYSTEM SYMBOLS
Ř	WALL BRACKET FLUORESCENT LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	▼	TELEPHONE OUTLET. WIRING BY OTHERS
ς Τ	WALL MOUNTED LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	▼w ▽	TELEPHONE OUTLET. WIRING BY OTHERS DATA OUTLET. WIRING BY OTHERS, UNO.
0	RECESSED CEILING MOUNTED DOWNLIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	V	DATA/TELEPHONE OUTLET, WIRING BY O
Φ	SURFACE MOUNTED CEILING DOWNLIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	TV	AV/DATA OUTLET FOR TV/MONITOR CONF WIRING BY OTHERS, UNO. MOUNT 18" AFI
\bigcirc	PENDANT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	T	LINE VOLTAGE THERMOSTAT. PROVIDED
-⊲	TRACK HEAD FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		FIRE ALARM SYMBOLS
₽₹	SPOTLIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	E<	HORN ONLY HORN AND STROBE
	BOLLARD OR POST LIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	Ē	STROBE ONLY MANUAL PULL STATION
●-□	PARKING LOT POLE LIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	©	SMOKE DETECTOR HEAT DETECTOR
		() (5)	DUCT SMOKE DETECTOR
	LIGHT FIXTURE WITH EMERGENECY BALLAST, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		MAGNETIC DOOR HOLD OPEN FIRE/SMOKE DAMPER
4_4	EMERGECY LIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	FACP FAA	FIRE ALARM CONTROL PANEL ANNUNCIATION PANEL
⊗	EXIT SIGN, WITH TYPE NOTED IN PLAN, SEE PLAN FOR ARROWS AND FACE OF EXIT NEEDED. SEE FIXTURE SCHEDULE FOR DETAILS.		ONE-LINE SYMBOLS
	SWITCHES		CIRCUIT BREAKER, FRAME AND TRIP AS I
S	TOGGLE SWITCH, 20A, SINGLE POLE, VOLTAGE AS REQUIRED. MOUNTED AT 48" ABOVE FINISHED FLOOR.	ulu	,
05) 06) PC	OCCUPANCY SENSOR, WALL MTD., 48" AFF. SENSOR SWITCH WSD PDT, OR EQUAL OCCUPANCY SENSOR, CEILING MTD. SENSOR SWITCH CMR PDT OR EQUAL		POWER TRANSFORMER, RATING AS INDIC
PC	PHOTOCELL SWITCH, MOUNT ON NORTH FACING EXTERIOR WALL, UNO.	÷	GROUND ELECTRODE
	SUBSCRIPTS FOR SWITCHES	З	CURRENT TRANSFORMER (CT)
3	THREE-WAY TOGGLE SWITCH FOUR-WAY TOGGLE SWITCH	~	NON-FUSIBLE SWITCH, RATING AS INDICA
4 D	0 - 10 VOLT ELECTRONIC DIMMER SWITCH, 1000W, 120V LUTRON DIVA OR EQUAL, UNO. COORDINATE COMPATIBLE DIMMER WITH LIGHTING MANUFACTURER.	~	FUSIBLE SWITCH, RATING AND FUSE SIZE
М	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD	<u>م</u>	FEEDER SCHEDULE KEY TAG
	RECEPTACLES	뮤	UTILITY TRANSFORMER
φ #±	DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO., MOUNT 18" AFF.	[M]	UTILITY ELECTRIC METER
‡ Φ	QUAD RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO., MOUNT 18" AFF. SIMPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO. MOUNT 18" AFF.		
P	SPECIAL RECEPTACLE, 220V, TYPE AS INDICATED OR MATCH EQUIPMENT CAP., MOUNT AT HEIGHT AS REQUIRED PER EQUIPMENT.	Ъý	MOTOR WITH DISCONNECT
¶ Ψ	DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO., WITH TIE-BAR REMOVED FOR SWITCHING., MOUNT 18" AFF. SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS INDICATED., MOUNT AT HEIGHT AS REQUIRED PER EQUIPMENT.	ටිෂුර	MOTOR WITH CONTROLLER AND DISCON
Ď	FLOOR BOX DUPLEX RECEPTACLE, FLUSH MOUNTED, PROVIDE COVER AS REQUIRED.		
⊕	FLOOR BOX QUAD RECEPTACLE, FLUSH MOUNTED, PROVIDE COVER AS REQUIRED.	Ø	GENERATOR
	SUBSCRIPTS FOR RECEPTACLES	$\mathbf{\nabla}$	TRANSFER SWITCH
С	CLOCK RECEPTACLE	0	WEATHERHEAD
CE IG	CEILING FLUSH MOUNTED ISOLATED GROUND	ID AMPS	PANELBOARD OR LOADCENTER, IDENTIF
GFI	GROUND FAULT INTERRUPTER	VOLTS	
WR	WEATHER RESISTANT WITH GROUND FAULT INTERRUPTER IN WEATHER PROOF BOX		ABBREVIATIONS
	OVER COUNTER, MOUNT RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH.	UNO	
UC USB	UNDER COUNTER DUPLEX RECEPTACLE WITH TWO USB CHARGER PORTS (HUBBELL USB20X2W OR EQUAL)	TVSS	UNLESS NOTED OTHERWISE. TRANSIENT VOLTAGE SURGE SUPPRESS
	POWER SYMBOLS	EWC	ELECTRIC WATER COOLER, PROVIDE GFI EXISTING DEVICE TO REMAIN.
00	JUNCTION BOX, FLUSH/SURFACE MTD.	N H	NEW DEVICE TO BE INSTALLED MOUNT DEVICE 6" AFF, HORIZONTALLY.
	POWER POLE WITH COMM AND POWER.	TP SWD	TAMPER-PROOF SWITCH RATED BREAKERS
\mathcal{N}	MOTOR	NL	NIGHTLIGHT WIRED FIXTURE
	NON FUSIBLE DISCONNECT SWITCH, RATING AS INDICATED.		
\Box_1	FUSIBLE DISCONNECT SWITCH, RATING AS INDICATED.		
	PANELBOARD/LOADCENTER.		
Ł	CEILING MOUNTED PAD FAN.		
\mathcal{O}	NOTE: NOT ALL SYMBOLS ARE USED. VERIFY ALL CONNECTIONS AND RECEPTACLE TYPES FOR EQUIPMENT FROM APPROVED MECHANICAL AND	D EQUIPMENT SUBMITTALS PRIO	R TO INSTALLATION.

NOTE: NOT ALL SYMBOLS ARE USED. VERIFY ALL CONNECTIONS AND RECEPTACLE TYPES FOR EQUIPMENT FROM APPROVED MECHANICAL AND EQUIPMENT SUBMITTALS PRIOR TO INSTALLATION.

ERS, UNO. MOUNT 18" AFF. ERS, UNO., WALL PHONE, MOUNT 48" AFF. NO. MOUNT 18" AFF. Y OTHERS UNO. MOUNT 18" AFF. ONNECTION. WIRING BY OTHERS,

DED BY MECHANICAL., INSTALLED BY ELECTRICIAN.

PANEL 05-NL1 VOLTAGE (L-N): ENCLOSURE TYPE NEMA1 VOLTAGE (L-L): MOUNTING: SURFACE 208 PHASES, WIRES: 3 φ 4 W AIC RATING (A) 10000 MINIMUM BUS CAPACITY (A): NOTES: FULLY RATED 100 A MAIN O.C. DEVICE (A): 50 A PHASE LOADS (VA) TRIP AMPS TRIIP CKT NO DESCRIPTION POLE POLE AMPS 1 EXISTING- RECEPTACLE 20 360 0 3 EXISTING- IT RACK 20 1000 0 5 EXISTING- FAN 20 1 0 | 787 20 1 54 1667 7 LIGHTS 9 GFI RECEPTACLE 180 1667 20 1 PANEL RECEP AND PLC 11 20 180 | 1667 20 1 0 0 13 15 0 0 20 17 20 0 0 20 0 0 19 21,23 PUMP [21] 1.5HP 21,23 PUMP [21] 1.5HP 20 20 1144 1144 1144 1144 2
 CONNECTED
 LOAD
 PHASE
 TOTALS
 (VA)

 5135
 4922
 2081 CONNECTED LOAD DEMAND LOAD (KVA) (KVA) DEMAND FACTOR 5.0 Heatina 1.00 5.0 Lighting 0.1 1.25 0.1 Motors 3.0 1.00 3.0 Motors (Largest) 2.3 1.25 2.9 Receptacles (0 - 10 KVA) 0.7 1.00 0.7 1.00 1.1 Standard 1.1 12.7 TOTAL: 12.1 LOAD (AMPS): 33.7 35.3

AS INDICATED.

NDICATED.

DICATED.

SIZE AS INDICATED.

ONNECT

TIFICATION, AMPERES AND VOLTAGE.

ESSOR GFI PROTECTION

GENERAL NOTES

GENERAL: THESE DRAWINGS REMAIN THE SOLE PROPERTY OF CHAVEZ, TIFFANY AND AYERS ENGINEERING CORPORATION AND MAY BE USED ONLY FOR THE PROJECT AS INDICATED BY NAME AND LOCATION. ANY OTHER USE REQUIRES PRIOR, WRITTEN PERMISSION. THE CONTRACTOR WILL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, LICENSES, FEES, PERMITS, ETC. TO COMPLETE THE ELECTRICAL WORK DESCRIBED ON THE DRAWINGS. THE CONTRACTOR WILL WARRANT EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. WARRANTY SHALL INCLUDE REPLACEMENTS OR REPAIRS WITHOUT COST TO THE OWNER DURING THE WARRANTY PERIOD.

ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2014 AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

USE OF DRAWINGS: DO NOT SCALE FROM THE ELECTRICAL DRAWINGS. FOR EXACT LOCATIONS USE ARCHITECT'S DIMENSIONED DRAWINGS, SHOP DRAWINGS AND FIELD MEASUREMENTS. VERIFY ALL LOCATIONS WITH THE ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN.

WIRING METHODS: ALL WIRING FOR LIGHTING AND POWER SYSTEMS WILL BE IN CONDUIT OR CABLE ASSEMBLIES APPROVED BY THE GOVERNING AUTHORITIES. ALL EXPOSED CABLING SHALL BE IN CONDUIT. CONDUCTOR SIZES SHOWN ARE BASED ON AMPACITIES FOR COPPER CONDUCTORS, UNLESS OTHERWISE NOTED. WHEN APPROVED BY ENGINEER, FEEDERS MAY BE ALUMINUM CONDUCTORS OF EQUIVALENT AMPACITIES. GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN ON THE DRAWINGS. PROVIDE BLOCKING AND OTHER NECESSARY SUPPORTS IN WALLS AND CEILINGS FOR MATERIAL AND EQUIPMENT TO BE PROVIDED. BRANCH CIRCUIT NUMBERS SHOWN ON THE DRAWINGS MAY BE REARRANGED WITHIN A GIVEN PANELBOARD TO SUIT THE NEEDS OF THE INSTALLATION. ELECTRICAL BRANCH CIRCUITS SHALL BE BALANCED BETWEEN LINES AND PHASES. MULTIWIRE BRANCH CIRCUITS SHALL HAVE A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNDERGROUNDED CONDUCTORS AT THE POINT WHERE BRANCH CIRCUITS ORIGINATE (HANDLE TIES ARE AN APPROVED MEANS). THE GROUNDED AND UNDERGROUNDED CONDUCTOR OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES AT ONE LOCATION IN PANELBOARD. ALL PATIENT CARE AREAS SHALL COMPLY WITH NEC 517.13(A)(B) TO INCLUDE LUMINAIRES AND NEC 250.118, CAN NOT BE IN PVC.

UTILITY COORDINATION: PROVIDE ALL COORDINATION WITH THE UTILITY INCLUDING LOAD DATA FORMS AND APPLICATION FOR SERVICE AS APPLICABLE. INSTALLATION OF SERVICE, PRIMARY OR SECONDARY FEEDERS AND METERING SHALL BE PERFORMED IN ACCORDANCE WITH THE UTILITIY REQUIREMENTS.

GROUNDING: PROVIDE A COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE NEC AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL BRANCH CIRCUITS SHALL INCLUDE A GROUND CONDUCTOR. USE OF RACEWAY FOR GROUNDING IS NOT PERMITTED. GALVANIZED GROUND RODS ARE NOT PERMITTED.

PANELBOARDS: PROVIDE MINIMUM INTEGRATED EQUIPMENT SHORT CIRCUIT RATING AS INDICATED ON PANEL SCHEDULES. PROVIDE BOLT-ON BREAKERS UNLESS OTHERWISE NOTED. PROVIDE CIRCUIT BREAKERS SHOWN ON THE PANELBOARD SCHEDULES. ALL TERMINATIONS AND LUGS SHALL BE RATED FOR 75-DEGREE CONDUCTORS. PROVIDE TYPEWRITTEN CIRCUIT SCHEDULES TO IDENTIFY PANELBOARD AND EACH BRANCH BREAKER. ACCEPTABLE MANUFACTURERS ARE SQUARE D, SIEMENS AND EATON.

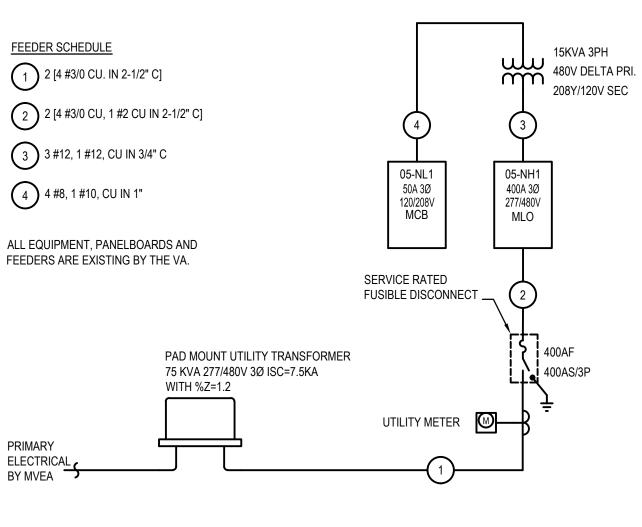
WIRING DEVICES: PROVIDE SPECIFICATION GRADE 15 AND 20- AMPERE SWITCH AND RECEPTACLE DEVICES, AS APPLICABLE. OTHER DEVICES SHALL BE PROVIDED AS INDICATED AND SHALL MATCH PLUG-CONNECTED EQUIPMENT FURNISHED FOR THE PROJECT. DEVICE WALL PLATES SHALL BE SMOOTH, NYLON TYPE AND SHALL BE OFFICE WHITE IN COLOR OR AS OTHERWISE SPECIFIED. DEVICE COLOR SHALL MATCH WALL PLATES. RECEPTACLES IN PATIENT CARE AREAS MUST BE HOSPITAL GRADE.

DISCONNECT SWITCHES: HEAVY DUTY QUICK-MAKE, QUICK-BREAK TYPE, NON-FUSED UNLESS OTHERWISE NOTED. PROVIDE MEANS TO LOCK SWITCH IN OFF POSITION WITH PAD-LOCK. ENCLOSURES SHALL BE NEMA TYPE 1 OR NEMA TYPE 3R FOR OUTDOOR INSTALLATION. PROVIDE PERMANENT LABELS FOR DISCONNECTS TO INDICATE EQUIMENT SERVED.

LIGHTING FIXTURES: SEE LIGHT FIXTURE SCHEDULE. PROVIDE ALL FIXTURES WITH LAMPS AS INDICATED. WHERE REQUIRED, FIXTURES SHALL BE WET OR DAMP LOCATION LABELED. VERIFY MOUNTING HEIGHTS PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE ALL REQUIRED MOUNTING ACCESSORIES REQUIRED FOR PROPER MOUNTING TO SURFACES SUCH ACCESSORIES TO INCLUDE BUT NOT LIMITED TO SLOPE ADAPTORS. CANOPIES, AND VAULTED CEILING CANOPIES, ETC. PROVIDE DISCONNECTING MEANS FOR LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND BALLASTS(S) IN ACCORDANCE WITH NEC 410.130(G)(1). ALTERNATES NOT ACCEPTABLE UNLESS NOTED AS "OR EQUAL" ON LIGHT FIXTURE SCHEDULE.

VOICE/DATA: RACEWAY SYSTEM BY CONTRACTOR. ALL RACEWAYS SHALL BE PROVIDED WITH PULLSTRINGS OF MINIMUM OF 400-LB. TEST STRENGTH. ALL EQUIPMENT, RECEPTACLES AND CABLING BY OTHERS. PROVIDE BLANK COVERS OVER ALL UNUSED OUTLETS. CABLES, DEVICES AND CABLE TERMINATION IS BY OTHERS.

FIRE ALARM: DESIGN BUILD CONTRACTOR TO PROVIDE AS REQUIRED PER FIRE AND LOCAL CODES.



ONE-LINE DIAGRAM SCALE: NTS

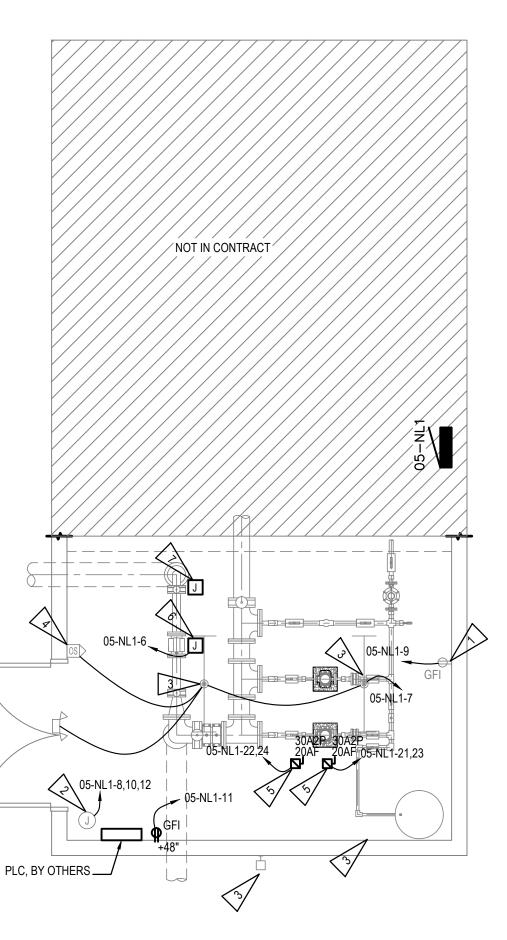
		1
DESCRI	PTION	CKT NO
PARE		2
PARE		4
ETER [34]		6
ATER		8,10,12
ATER		8,10,12
ATER		8,10,12
		14
		16
		18
		20
JMP [21] 1.5HP		22,24
JMP [21] 1.5HP		22,24
MAND LOAD	12.7 KVA	
PARE CAPACITY	23.3 KVA	
PARE CAPACITY	64.7 AMPS	
PARE CAPACITY	65 %	
ASE BALANCE	4 4 67	
TO B	41%	
TO C	96 %	
ΤΟ Α	42 %	

SHEET NOTES:

1. VA SHALL PROVIDE LIGHTING AND DEVICES AS SHOWN. 2. ALL NEW WORK BY ELECTRICIAN UNDER WIDEFIELD WATER CONTRACT. CONNECT ALL NEW DEVICES AND EQUIPMENT TO EXISTING PANEL 05-NL1 PROVIDED BY THE VA.

FLAG NOTES:

- 1. EXISTING DEVICE BY VA.
- 2. EXISTING CONNECTION FOR HEATER BY VA. EXISTING LIGHT BY VA.
- 4. EXISTING SWITCH BY VA. 5. PROVIDE FUSIBLE DISCONNECT FOR 1.5HP PUMP, ITEM 21. MOUNT AS REQUIRED TO
- MEET NEC WORKING CLEARANCES.
- 6. 120V CONNECTION FOR METER, ITEM 34. 7. 24V CONNECTION FOR SHUT-OFF VALVE, ITEM 37

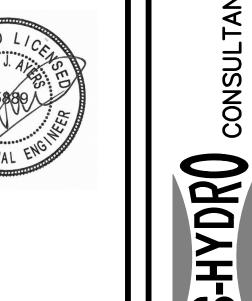






Engineering Corporation 119 West Cucharras Street Colorado Springs, Colorado 80903 P (719)636-0021





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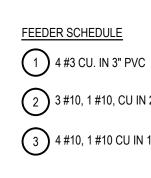
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DISTRIC 'ATION \geq Ш ST Ś SANIT, DELIVERY **TATION** ST $\overline{\triangleleft}$ AND TER МU \cong ()WAT Ω Ω \triangleleft $\bigcup \bigcup$ Project No.: 102.106 Scale: **AS NOTED** 12/06/2017 Date: Design: **JJA** Drawn: **JJA** Check: **JJA** Revised:

of

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURES	_	SPECIAL SYSTEM SYMBOLS
			PUSHBUTTON OPERATOR.
	RECESSED FLUORESCENT LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	S A	CEILING MOUNTED SPEAKER WALL MOUNTED SPEAKER
0	SURFACE FLUORESCENT LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	S F	NURSE/EMERGENCY CALL BUTTON
•	FLUORESCENT STRIP LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	\square	NURSE/EMERGENCY CALL BUTTON
·			COMMUNICATION SYSTEM SYMBOLS
Ř	WALL BRACKET FLUORESCENT LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	▼	TELEPHONE OUTLET. WIRING BY OTHERS, UNO. MOUNT 18" AFF.
γŢ	WALL MOUNTED LIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	W	TELEPHONE OUTLET. WIRING BY OTHERS, UNO., WALL PHONE, MOUNT 48" AFF
0	RECESSED CEILING MOUNTED DOWNLIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	\ ▼	DATA OUTLET. WIRING BY OTHERS, UNO. MOUNT 18" AFF. DATA/TELEPHONE OUTLET, WIRING BY OTHERS UNO. MOUNT 18" AFF.
¢	SURFACE MOUNTED CEILING DOWNLIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	TV	AV/DATA OUTLET FOR TV/MONITOR CONNECTION. WIRING BY OTHERS, WIRING BY OTHERS, UNO. MOUNT 18" AFF.
\bigcirc	PENDANT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	Ū	LINE VOLTAGE THERMOSTAT. PROVIDED BY MECHANICAL., INSTALLED BY ELE
-	TRACK HEAD FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		FIRE ALARM SYMBOLS
Ργ	SPOTLIGHT FIXTURE, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	E< <p>□<</p>	HORN ONLY HORN AND STROBE
ф	BOLLARD OR POST LIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	Ē	STROBE ONLY MANUAL PULL STATION
' ●□	PARKING LOT POLE LIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		SMOKE DETECTOR
•	PARKING LOT POLE LIGHT, WITH TTPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	() ©	HEAT DETECTOR DUCT SMOKE DETECTOR
	LIGHT FIXTURE WITH EMERGENECY BALLAST, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.		MAGNETIC DOOR HOLD OPEN FIRE/SMOKE DAMPER
4	EMERGECY LIGHT, WITH TYPE NOTED IN PLAN. SEE FIXTURE SCHEDULE FOR DETAILS.	FACP	FIRE ALARM CONTROL PANEL
⊗	EXIT SIGN, WITH TYPE NOTED IN PLAN, SEE PLAN FOR ARROWS AND FACE OF EXIT NEEDED. SEE FIXTURE SCHEDULE FOR DETAILS.	FAA	ANNUNCIATION PANEL
	SWITCHES		ONE-LINE SYMBOLS
S	TOGGLE SWITCH, 20A, SINGLE POLE, VOLTAGE AS REQUIRED. MOUNTED AT 48" ABOVE FINISHED FLOOR.	(°	CIRCUIT BREAKER, FRAME AND TRIP AS INDICATED.
0S) ()S)	OCCUPANCY SENSOR, WALL MTD., 48" AFF. SENSOR SWITCH WSD PDT, OR EQUAL OCCUPANCY SENSOR, CEILING MTD. SENSOR SWITCH CMR PDT OR EQUAL		POWER TRANSFORMER, RATING AS INDICATED.
PC	PHOTOCELL SWITCH, MOUNT ON NORTH FACING EXTERIOR WALL, UNO.	÷	GROUND ELECTRODE
	SUBSCRIPTS FOR SWITCHES	З	CURRENT TRANSFORMER (CT)
3	THREE-WAY TOGGLE SWITCH	~-	NON-FUSIBLE SWITCH, RATING AS INDICATED.
4 D	FOUR-WAY TOGGLE SWITCH 0 - 10 VOLT ELECTRONIC DIMMER SWITCH, 1000W, 120V LUTRON DIVA OR EQUAL, UNO. COORDINATE COMPATIBLE DIMMER WITH LIGHTING MANUFACTURER.	~-	FUSIBLE SWITCH, RATING AND FUSE SIZE AS INDICATED.
М	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD	۲	FEEDER SCHEDULE KEY TAG
	RECEPTACLES	무	UTILITY TRANSFORMER
Φ	DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO., MOUNT 18" AFF.		
\$ Φ	QUAD RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO., MOUNT 18" AFF. SIMPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO. MOUNT 18" AFF.	\odot	UTILITY ELECTRIC METER
∲ ¶	SPECIAL RECEPTACLE, 220V, TYPE AS INDICATED OR MATCH EQUIPMENT CAP., MOUNT AT HEIGHT AS REQUIRED PER EQUIPMENT.	Ъф	MOTOR WITH DISCONNECT
Ϋ́ Φ	DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED, NEMA 5-20R, UNO., WITH TIE-BAR REMOVED FOR SWITCHING., MOUNT 18" AFF. SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS INDICATED., MOUNT AT HEIGHT AS REQUIRED PER EQUIPMENT. FLOOR BOX DUPLEX RECEPTACLE, FLUSH MOUNTED, PROVIDE COVER AS REQUIRED.	<u>ф</u> мд	MOTOR WITH CONTROLLER AND DISCONNECT
	FLOOR BOX DUPLEX RECEPTACLE, FLUSH MOUNTED, PROVIDE COVER AS REQUIRED.	Ś	GENERATOR
	SUBSCRIPTS FOR RECEPTACLES	71	TRANSFER SWITCH
С	CLOCK RECEPTACLE	7	WEATHERHEAD
CE IG	CEILING FLUSH MOUNTED ISOLATED GROUND	ID AMPS V0.15	PANELBOARD OR LOADCENTER, IDENTIFICATION, AMPERES AND VOLTAGE.
GFI	GROUND FAULT INTERRUPTER		
WR	WEATHER RESISTANT WITH GROUND FAULT INTERRUPTER IN WEATHER PROOF BOX		ABBREVIATIONS
OC UC	OVER COUNTER, MOUNT RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH. UNDER COUNTER	UNO	UNLESS NOTED OTHERWISE.
USB	DUPLEX RECEPTACLE WITH TWO USB CHARGER PORTS (HUBBELL USB20X2W OR EQUAL)	TVSS EWC	TRANSIENT VOLTAGE SURGE SUPPRESSOR ELECTRIC WATER COOLER, PROVIDE GFI PROTECTION
	POWER SYMBOLS	Е	EXISTING DEVICE TO REMAIN.
0 0	JUNCTION BOX, FLUSH/SURFACE MTD.	N H	NEW DEVICE TO BE INSTALLED MOUNT DEVICE 6" AFF, HORIZONTALLY.
	POWER POLE WITH COMM AND POWER.	TP SWD	TAMPER-PROOF SWITCH RATED BREAKERS
\mathcal{N}	MOTOR	NL	NIGHTLIGHT WIRED FIXTURE
	NON FUSIBLE DISCONNECT SWITCH, RATING AS INDICATED.		
\Box_{1}	FUSIBLE DISCONNECT SWITCH, RATING AS INDICATED.		
	PANELBOARD/LOADCENTER.		15HP

NOTE: NOT ALL SYMBOLS ARE USED. VERIFY ALL CONNECTIONS AND RECEPTACLE TYPES FOR EQUIPMENT FROM APPROVED MECHANICAL AND EQUIPMENT SUBMITTALS PRIOR TO INSTALLATION.



WITH %Z=1.2

PRIMAR ELECTRICAL BY MVEA

			[PANEL		PL	IPS						
			I	ANLL									
VOLTAGE ((L-N):	120					ENCLOSUR	E TYPE:	NEMA1				
VOLTAGE ((L-L):	208					MOUNTING		SURFACE				
PHASES, V		3φ4	W				AIC RATIN		10000				
	BUS CAPACITY (A):	25 A					NOTES:	FULLY RAT	ED				
MAIN O.C.	DEVICE (A):	25 A	-										
CKT NO	DESCRIPTION	TRIP	POLE			PHASE L	DADS (VA)		POLE	TRIIP	DESCRIPTION		CKT NO
		AMPS			A		В	C		AMPS			
1	HEATER	20	1	200	60				1	20	EXHAUST FAN		2
3	UTILITY RECEPTACLE	20	1	-		180	180		1	20	PLC		4
						CTED LOAD			1				
				Z	60		60	0					
				CONNEC	TED LOAD						DEMAND LOAD	0.6 KVA	
					VA)) FACTOR	DEMAND LOAD (KVA)			SPARE CAPACITY	8.4 KVA	
	Heating				0.2		.00	0.2			SPARE CAPACITY	23.2 AMPS	
	Motors				0.0		.00	0.0			SPARE CAPACITY	93 %	
	Motors (Largest)				0.1		.25	0.1			PHASE BALANCE		
	Receptacles (0 - 10 KVA)				0.4		.00	0.4			A TO B	72 %	
											B TO C	0 %	
											C TO A	0%	
	TOTAL					_			-				
	TOTAL:).6 7			0.6					
	LOAD (AMPS):			1	.7			1.8					

GENERAL NOTES

GENERAL: THESE DRAWINGS REMAIN THE SOLE PROPERTY OF CHAVEZ, TIFFANY AND AYERS ENGINEERING CORPORATION AND MAY BE USED ONLY FOR THE PROJECT AS INDICATED BY NAME AND LOCATION. ANY OTHER USE REQUIRES PRIOR, WRITTEN PERMISSION. THE CONTRACTOR WILL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, LICENSES, FEES, PERMITS, ETC. TO COMPLETE THE ELECTRICAL WORK DESCRIBED ON THE DRAWINGS. THE CONTRACTOR WILL WARRANT EQUIPMENT. MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. WARRANTY SHALL INCLUDE REPLACEMENTS OR REPAIRS WITHOUT COST TO THE OWNER DURING THE WARRANTY PERIOD.

ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) 2014 AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

USE OF DRAWINGS: DO NOT SCALE FROM THE ELECTRICAL DRAWINGS. FOR EXACT LOCATIONS USE ARCHITECT'S DIMENSIONED DRAWINGS, SHOP DRAWINGS AND FIELD MEASUREMENTS. VERIFY ALL LOCATIONS WITH THE ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN.

WIRING METHODS: ALL WIRING FOR LIGHTING AND POWER SYSTEMS WILL BE IN CONDUIT OR CABLE ASSEMBLIES APPROVED BY THE GOVERNING AUTHORITIES. ALL EXPOSED CABLING SHALL BE IN CONDUIT. CONDUCTOR SIZES SHOWN ARE BASED ON AMPACITIES FOR COPPER CONDUCTORS, UNLESS OTHERWISE NOTED. WHEN APPROVED BY ENGINEER, FEEDERS MAY BE ALUMINUM CONDUCTORS OF EQUIVALENT AMPACITIES. GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN ON THE DRAWINGS. PROVIDE BLOCKING AND OTHER NECESSARY SUPPORTS IN WALLS AND CEILINGS FOR MATERIAL AND EQUIPMENT TO BE PROVIDED. BRANCH CIRCUIT NUMBERS SHOWN ON THE DRAWINGS MAY BE REARRANGED WITHIN A GIVEN PANELBOARD TO SUIT THE NEEDS OF THE INSTALLATION. ELECTRICAL BRANCH CIRCUITS SHALL BE BALANCED BETWEEN LINES AND PHASES. MULTIWIRE BRANCH CIRCUITS SHALL HAVE A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNDERGROUNDED CONDUCTORS AT THE POINT WHERE BRANCH CIRCUITS ORIGINATE (HANDLE TIES ARE AN APPROVED MEANS). THE GROUNDED AND UNDERGROUNDED CONDUCTOR OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES AT ONE LOCATION IN PANELBOARD. ALL PATIENT CARE AREAS SHALL COMPLY WITH NEC 517.13(A)(B) TO INCLUDE LUMINAIRES AND NEC 250.118, CAN NOT BE IN PVC.

UTILITY COORDINATION: PROVIDE ALL COORDINATION WITH THE UTILITY INCLUDING LOAD DATA FORMS AND APPLICATION FOR SERVICE AS APPLICABLE. INSTALLATION OF SERVICE, PRIMARY OR SECONDARY FEEDERS AND METERING SHALL BE PERFORMED IN ACCORDANCE WITH THE UTILITIY REQUIREMENTS.

GROUNDING: PROVIDE A COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE NEC AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL BRANCH CIRCUITS SHALL INCLUDE A GROUND CONDUCTOR. USE OF RACEWAY FOR GROUNDING IS NOT PERMITTED. GALVANIZED GROUND RODS ARE NOT PERMITTED.

PANELBOARDS: PROVIDE MINIMUM INTEGRATED EQUIPMENT SHORT CIRCUIT RATING AS INDICATED ON PANEL SCHEDULES. PROVIDE BOLT-ON BREAKERS UNLESS OTHERWISE NOTED. PROVIDE CIRCUIT BREAKERS SHOWN ON THE PANELBOARD SCHEDULES. ALL TERMINATIONS AND LUGS SHALL BE RATED FOR 75-DEGREE CONDUCTORS. PROVIDE TYPEWRITTEN CIRCUIT SCHEDULES TO IDENTIFY PANELBOARD AND EACH BRANCH BREAKER. ACCEPTABLE MANUFACTURERS ARE SQUARE D, SIEMENS AND EATON.

WIRING DEVICES: PROVIDE SPECIFICATION GRADE 15 AND 20- AMPERE SWITCH AND RECEPTACLE DEVICES, AS APPLICABLE. OTHER DEVICES SHALL BE PROVIDED AS INDICATED AND SHALL MATCH PLUG-CONNECTED EQUIPMENT FURNISHED FOR THE PROJECT. DEVICE WALL PLATES SHALL BE SMOOTH, NYLON TYPE AND SHALL BE OFFICE WHITE IN COLOR OR AS OTHERWISE SPECIFIED. DEVICE COLOR SHALL MATCH WALL PLATES. RECEPTACLES IN PATIENT CARE AREAS MUST BE HOSPITAL GRADE.

DISCONNECT SWITCHES: HEAVY DUTY QUICK-MAKE, QUICK-BREAK TYPE, NON-FUSED UNLESS OTHERWISE NOTED. PROVIDE MEANS TO LOCK SWITCH IN OFF POSITION WITH PAD-LOCK. ENCLOSURES SHALL BE NEMA TYPE 1 OR NEMA TYPE 3R FOR OUTDOOR INSTALLATION. PROVIDE PERMANENT LABELS FOR DISCONNECTS TO INDICATE EQUIMENT SERVED.

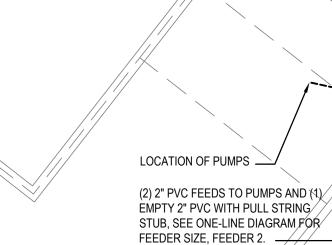
LIGHTING FIXTURES: SEE LIGHT FIXTURE SCHEDULE. PROVIDE ALL FIXTURES WITH LAMPS AS INDICATED. WHERE REQUIRED, FIXTURES SHALL BE WET OR DAMP LOCATION LABELED. VERIFY MOUNTING HEIGHTS PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE ALL REQUIRED MOUNTING ACCESSORIES REQUIRED FOR PROPER MOUNTING TO SURFACES SUCH ACCESSORIES TO INCLUDE BUT NOT LIMITED TO SLOPE ADAPTORS. CANOPIES, AND VAULTED CEILING CANOPIES, ETC.

PROVIDE DISCONNECTING MEANS FOR LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND BALLASTS(S) IN ACCORDANCE WITH NEC 410.130(G)(1). ALTERNATES NOT ACCEPTABLE UNLESS NOTED AS "OR EQUAL" ON LIGHT FIXTURE SCHEDULE.

VOICE/DATA: RACEWAY SYSTEM BY CONTRACTOR. ALL RACEWAYS SHALL BE PROVIDED WITH PULLSTRINGS OF MINIMUM OF 400-LB. TEST STRENGTH. ALL EQUIPMENT, RECEPTACLES AND CABLING BY OTHERS. PROVIDE BLANK COVERS OVER ALL UNUSED OUTLETS. CABLES, DEVICES AND CABLE TERMINATION IS BY OTHERS.

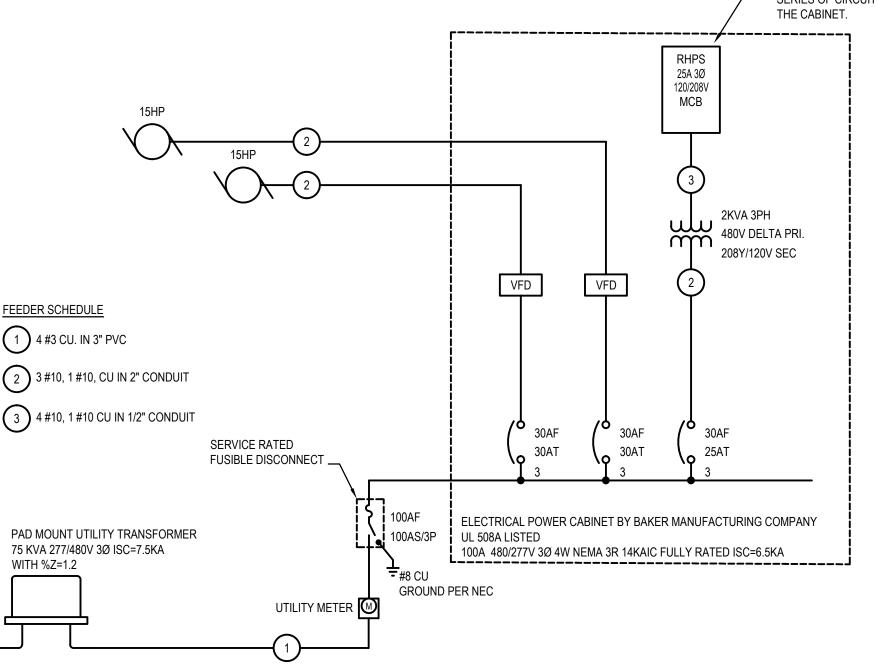
FIRE ALARM: DESIGN BUILD CONTRACTOR TO PROVIDE AS REQUIRED PER FIRE AND LOCAL CODES.

PANEL SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. THIS WILL BE A SERIES OF CIRCUIT BREAKERS IN THE CABINET.



UTILITY TRANSFORMER

BY MVEA



ONE-LINE DIAGRAM SCALE: NTS

Chavez Tiffany & Ayers		

Engineering Corporation 119 West Cucharras Street Colorado Springs, Colorado 80903 P (719)636-0021



SHEET NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL REFER TO WIRING DIAGRAMS PROVIDED BY BAKER
- MANUFACTURING COMPANY. 2. PROVIDE ROUND JACKETED THW/PVC SUBMERSIBLE PUMP CABLE FOR ALL PUMP
- RUNS. 3. ELECTRICAL CONTRACTOR SHALL MAKE ALL SPLICES AT PUMP FACTORY LEAD SO THAT LEAD IS SUBMERSED. MAKE ALL SUBMERSIBLE SPLICES USING SUBMERSIBLE
- SPLICE CONNECTORS. 4. PANEL SCHEDULE IS FOR LOAD INFORMATION ONLY. ALL CIRCUIT BREAKERS AND TRANSFORMER RESIDE IN POWER CABINET.

PROVIDE (1) EMPTY 1" PVC WITH PULL STRING FOR 120-VOLT, (2) 3/4" PVC WITH PULL STRING FOR TRANSDUCERS AND (2) EMPTY 3/4" PVC WITH PULL STRING TO VAULT. COORDINATE TRANSDUCER CABLING TYPE AND SIZE WITH WIDEFIELD.

> . POWER CABINET, VFD'S AND PLC BY BAKER MANUFACTURIÑG COMPANY

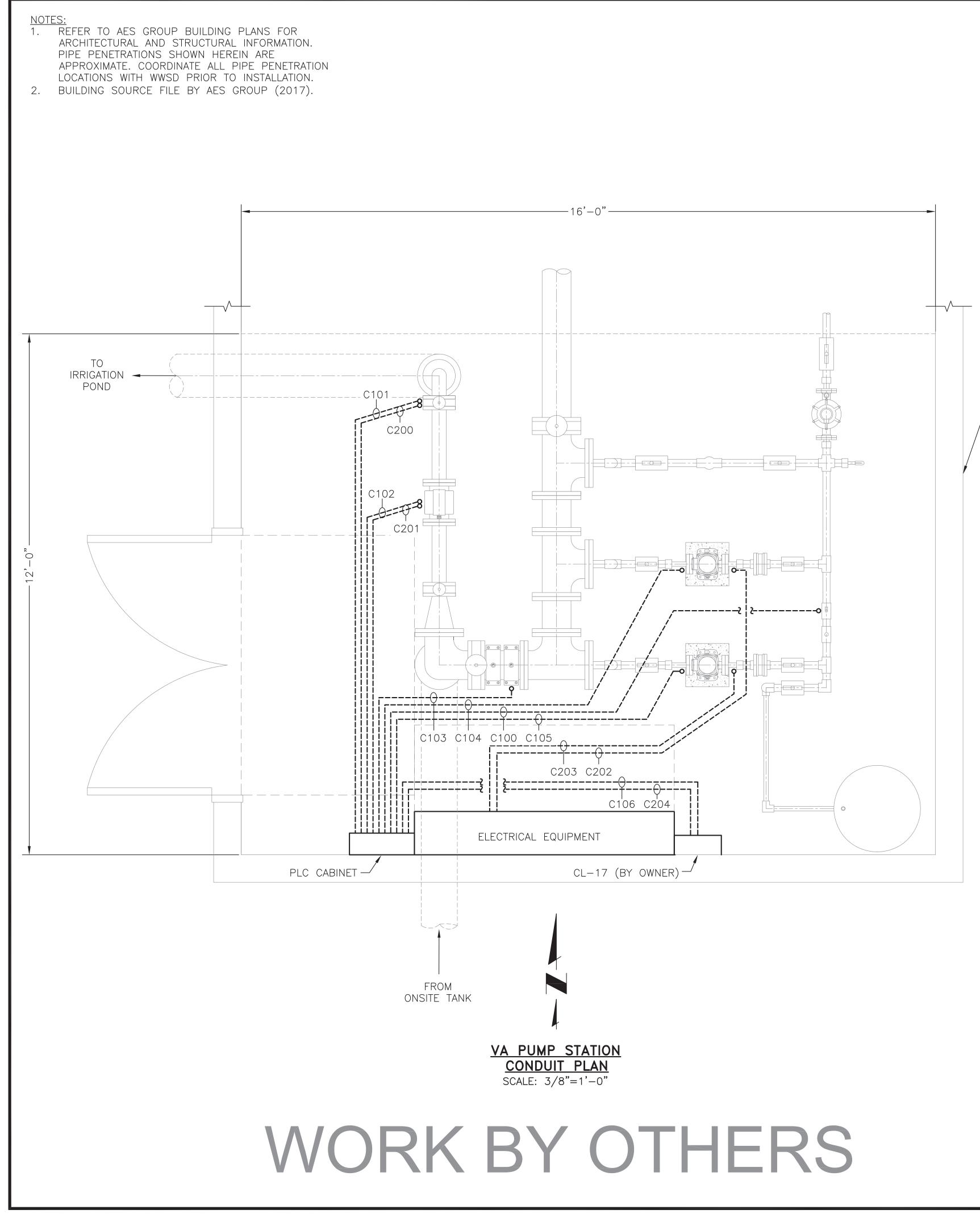
. UNDERGROUND ELECTRICAL SECONDARY, SEE ONE, LINE DIAGRAM FOR FEEDER SIZE, FEEDER 1.

ELECTRICAL SITE PLAN SCALE: 1"=10'-0"

SÉRVICE DISCONNECT AND UTILITY

METER PER UTILITY STANDARDS ___





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FOUNDATION BY OTHERS

CONDU C10 C10 C10 C10 C10 C10 C10 C20 C20 C20 C20 C2C

CONDUIT SCHEDULE			
UIT ID	SIZE	EQUIPMENT CONNECTED	
00	1/2"	PRESSURE TRANSMITTER	
01	1/2"	CONTROL VALVE TO IRRIGATION POND	
02	1/2"	IRRIGATION METER – CONTROLS	
03	1/2"	PRESSURE TRANSMITTER	
04	3/4"	PUMP MOTOR	
05	3/4"	PUMP MOTOR	
06	1/2"	CL-17 CONTROLS	
.00	3/4"	POWER 120V CONTROL VALVE	
201	3/4"	POWER 120V 4" METER	
.02	1 "	PUMP POWER	
03	1 "	PUMP POWER	
.04	1/2"	CL-17 POWER	







Check: JPM

Revised: