

5540 TECH CENTER DR., SUITE 100 COLORADO SPRINGS, COLORADO 80919

(719) 227-0072

S

PP HYDRANT ASSEMBLY

(ISOLATION VALVE INCLUDED

GWEN DALL, P.E. #51810 JDS-HYDRO CONSULTANTS

ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH

LAWS

SURVEY DATA
UCTED BY CLARK LAND SURVEYING (DATED 01/24/20). SEE SURVEY FOR ESTABLISHED CONTROL. E SYSTEM AND DATUM RECORD IS AS FOLLOWS:
ITAL DATUM: MODIFIED COLO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. SCALE FACTOR
1.000321070 DATUM: BASED ON OPUS SOLUTION RAN ON CONTROL POINT #100 (3-1/2" BRASS CAP IN CONCRETE, "EL PASO CALIBRATION BASELINE" "2003"). ELEVATION=5815.45' (NAVD1988)
SURVEY HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, EXISTING DRAWINGS AND/OR HE SURVEYOR NOR ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN SS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.
SIGNATURE BLOCKS
GRADING AND EROSION CONTROL PLAN APPROVALS
ND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID S HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE ADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, CIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, N MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS. MY DATURE
HAVE READ AND WILL COMPLY WITH ALL THE REQUIREMENTS SPECIFIED IN THESE
PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE BLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, L VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.
I SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR RIOD OF 2 YEARS FROM THE DATED SIGNED BY THE EL PASO COUNTY ENGINEER. T STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT
JNTY ENGINEER/ECM ADMINISTRATOR DATE
CONSTRUCTION PLAN APPROVALS
ANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE R AND SANITATION DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.
TION DISTANCE DESIGN & PROVAL
DATE:
SSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE. APPROVAL SIGN APPROVALOUTION OF UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND REPARED ACCORDING TO THE VERTERIA ESTABLISHED BY THE APPLICABLE GOVERNING AGENCIES.
DATE PROJECT NO. 102.121
PROJECT NO.

- 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
- ALL CARBON STEEL AND DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHEYLENE TUBING, BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED
- ALL CARBON STEEL AND 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.
- THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION 8. 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.
- 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, CDPHE STORMWATER CONSTRUCTION ACTIVITY AND DEWATERING PERMITS, AND CITY OF COLORADO SPRINGS WORK IN THE R.O.W. PERMIT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PRIOR TO CONSTRUCTION
- 17. ALL MAIN LINES (PVC AND DUCTILE IRON) SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE WITH TEST STATIONS EVERY 500 FT.
- 18. AERIAL BASEMAP IMAGERY, IF DEPICTED HEREIN, IS NOT TO SCALE AND IS SHOWN FOR CONCEPTUAL REFERENCE ONLY
- 19 SEE WIDEFIELD WATER AND WASTEWATER SYSTEM STANDARD SPECIFICATIONS FOR ALL GENERAL AND DESIGN STANDARDS/CIVIL DRAWINGS DETAILS.
- 20. WATER MAIN INSTALLATION:

THE UNIT PRICE SHALL INCLUDE ALL PIPE, PIPE INSTALLATION, TRENCHING, STABILIZATION, AND BEDDING AS SHOWN ON THE TYPICAL DETAIL, DEWATERING, BACKFILL, TRACER WIRE, COMPACTION, CLEAN-UP, REVEGETATION, FLUSHING, TESTING, GRADING AND ALL WORK INCIDENTAL THERTO TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HERFIN

- 21. CONTRACTOR IS TO COORDINATE WITH THE RANCHER WHO RUNS CATTLE ON THE PROPERTY TO ENSURE NO CATTLE ARE HARMED DURING CONSTRUCTION
- 22. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER COMPLETION OF ALL PRESSURE TESTING, DISINFECTION, AND COMPACTION TESTING.
- 23. SUBSURFACE UTILITY ENGINEERING

GENERAL NOTES

- 23.1. UTILITIES ARE DEPICITED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38. "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- 23.2. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.
- 24 DISINFECTION OF FACILITIES
- 24.1. THE CONTRACTOR SHALL DISINFECT ALL DOMESTIC WATER LINES ACCORDING TO AWWA C651-14 AND TANK ACCORDING TO AWWA C652-11
- 24.2. THE CONTRACTOR SHALL COLLECT SAMPLES FROM THE PIPELINE AND TANK AFTER FINAL FLUSHING AND PRIOR TO PLACING FACILITIES IN SERVICE AND TEST FOR COLIFORM ORGANISMS. THE NUMBER AND FREQUENCY OF SAMPLES SHALL CONFORM WITH THE REQUIREMENTS OF THE PUBLIC HEALTH AGENCY HAVING JURISDICTION.
- 24.3. REPEAT DISINFECTION UNTIL SATISFACTORY SAMPLES HAVE BEEN OBTAINED IF INITIAL OR SUBSEQUENT DISINFECTION FAILS TO PRODUCE SATISFACTORY SAMPLES

DESCRIPTION

SHEET

G2 G3

CIVIL

C1 C2 C3 C4 C5

C6

C7 C8 C9 C10 C11 C12 C13 C14

C15 C16

C17 C18

NUMBER

WWSD

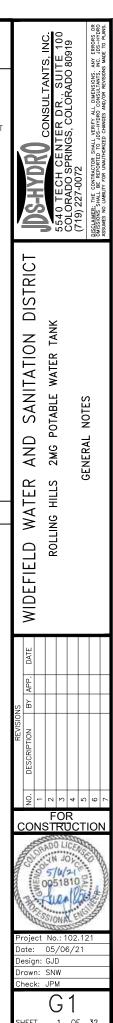
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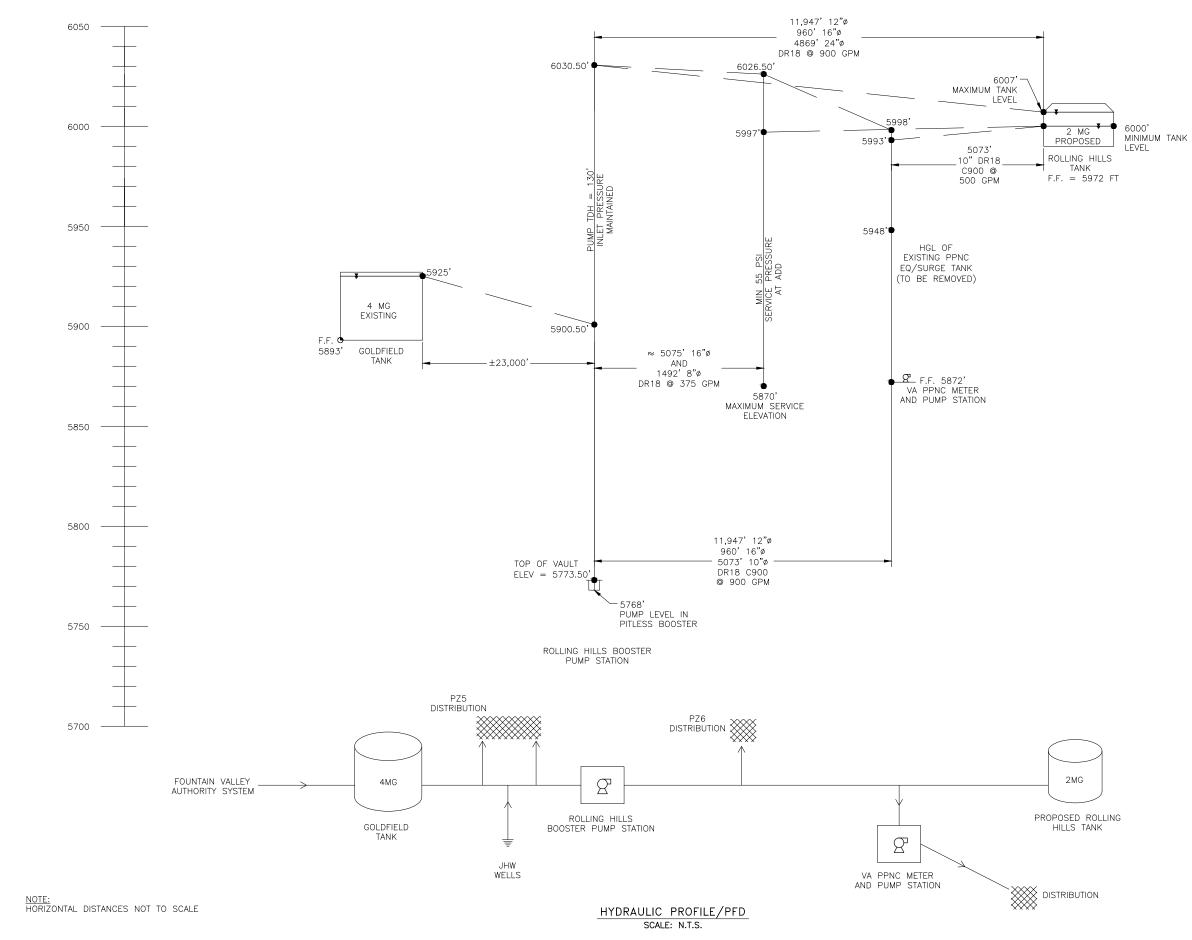
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ABBREVIATIONS

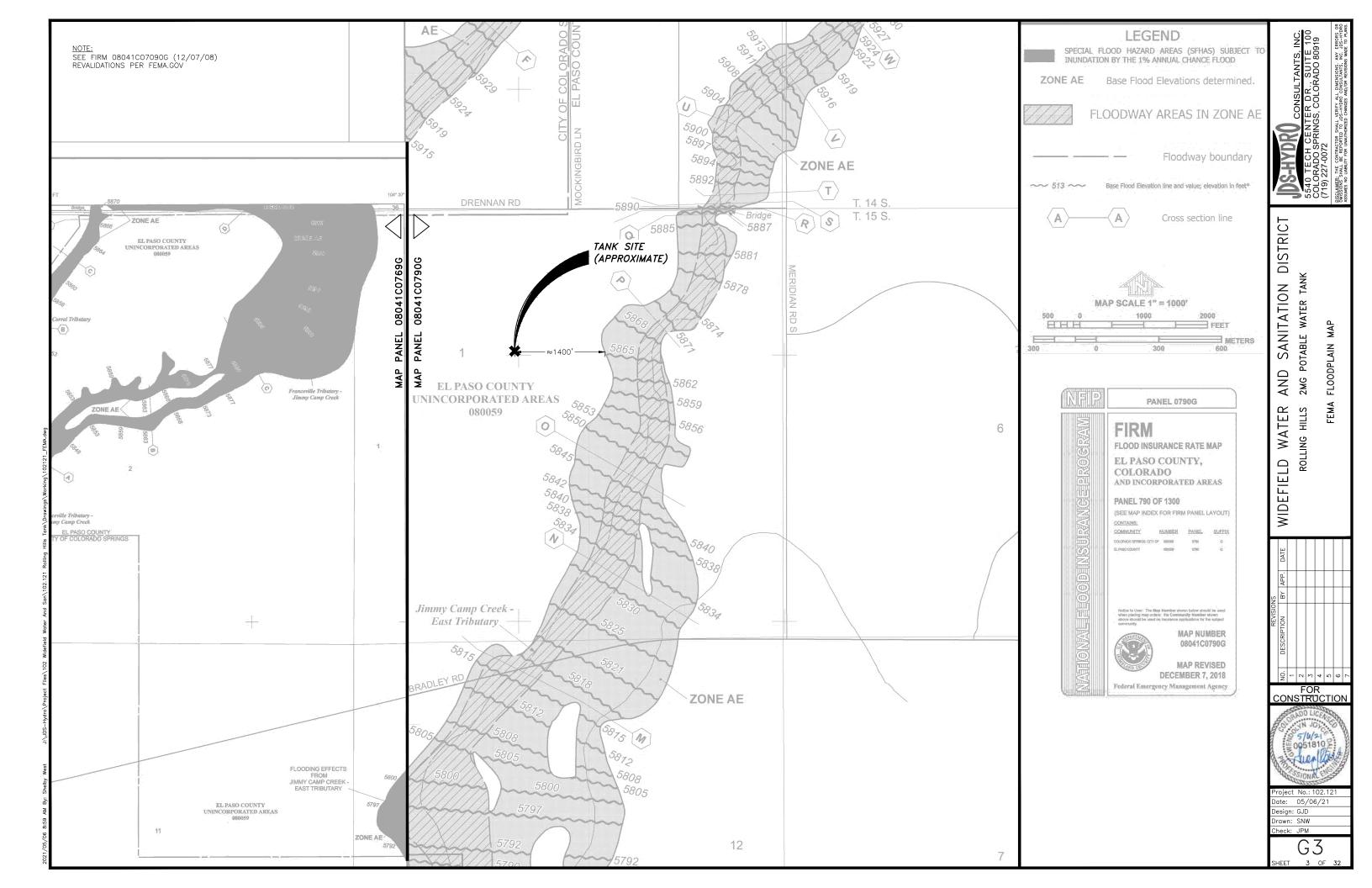
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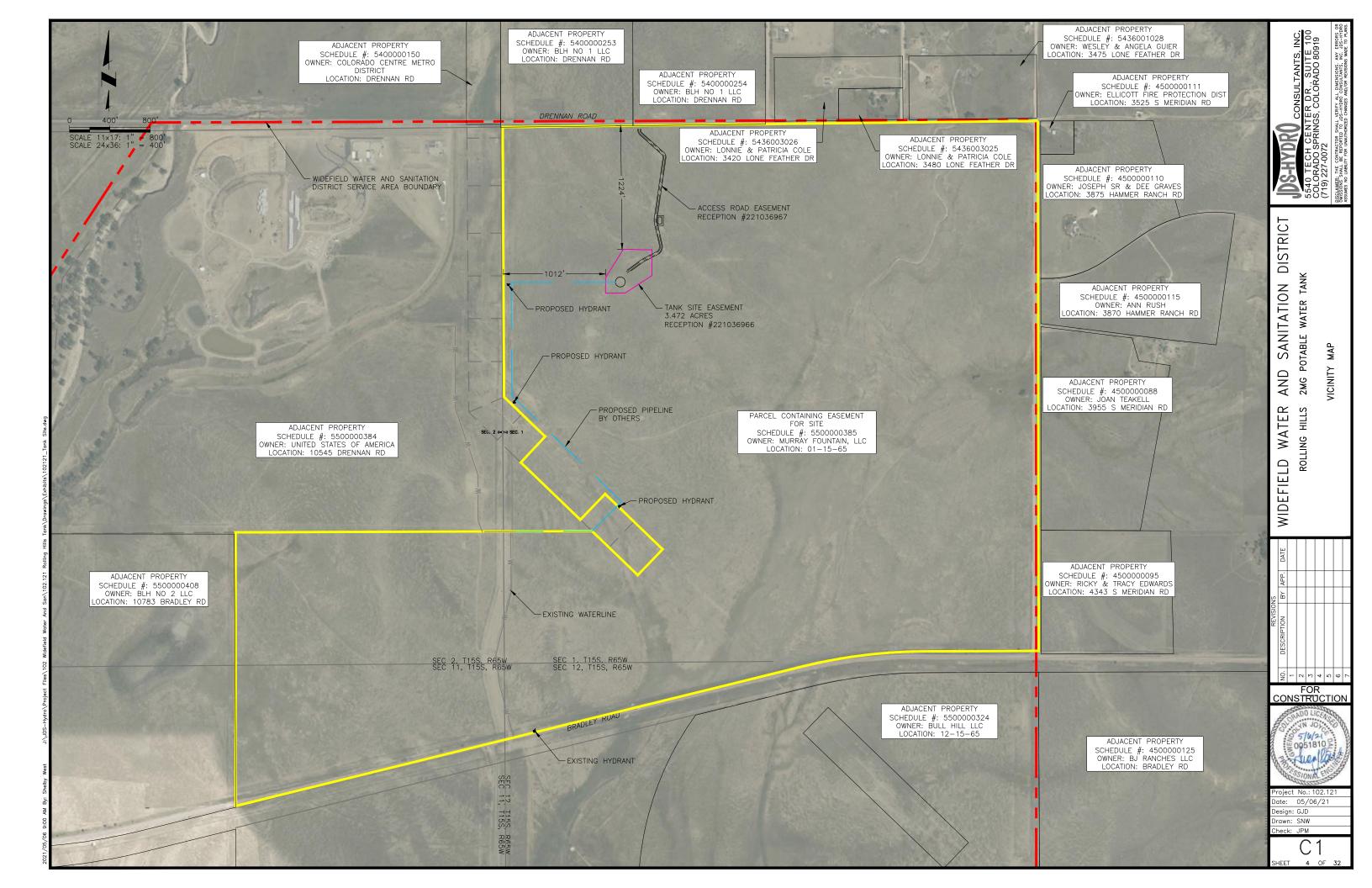
WIDEFIELD WATER AND SANITATION DISTRICT VETERANS AFFAIRS PIKES PEAK NATIONAL CEMETERY ROLLING HILLS BOOSTER PUMP STATION SOUTHERN DELIVERY SYSTEM PROPOSED EXISTING SCHEDULE STATION FEMALE NATIONAL PIPE THREAD MALE NATIONAL PIPE THREAD FLANGE FIRE HYDRANT THRUST BLOCK MECHANICAL JOINT BUTTERFLY VALVE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

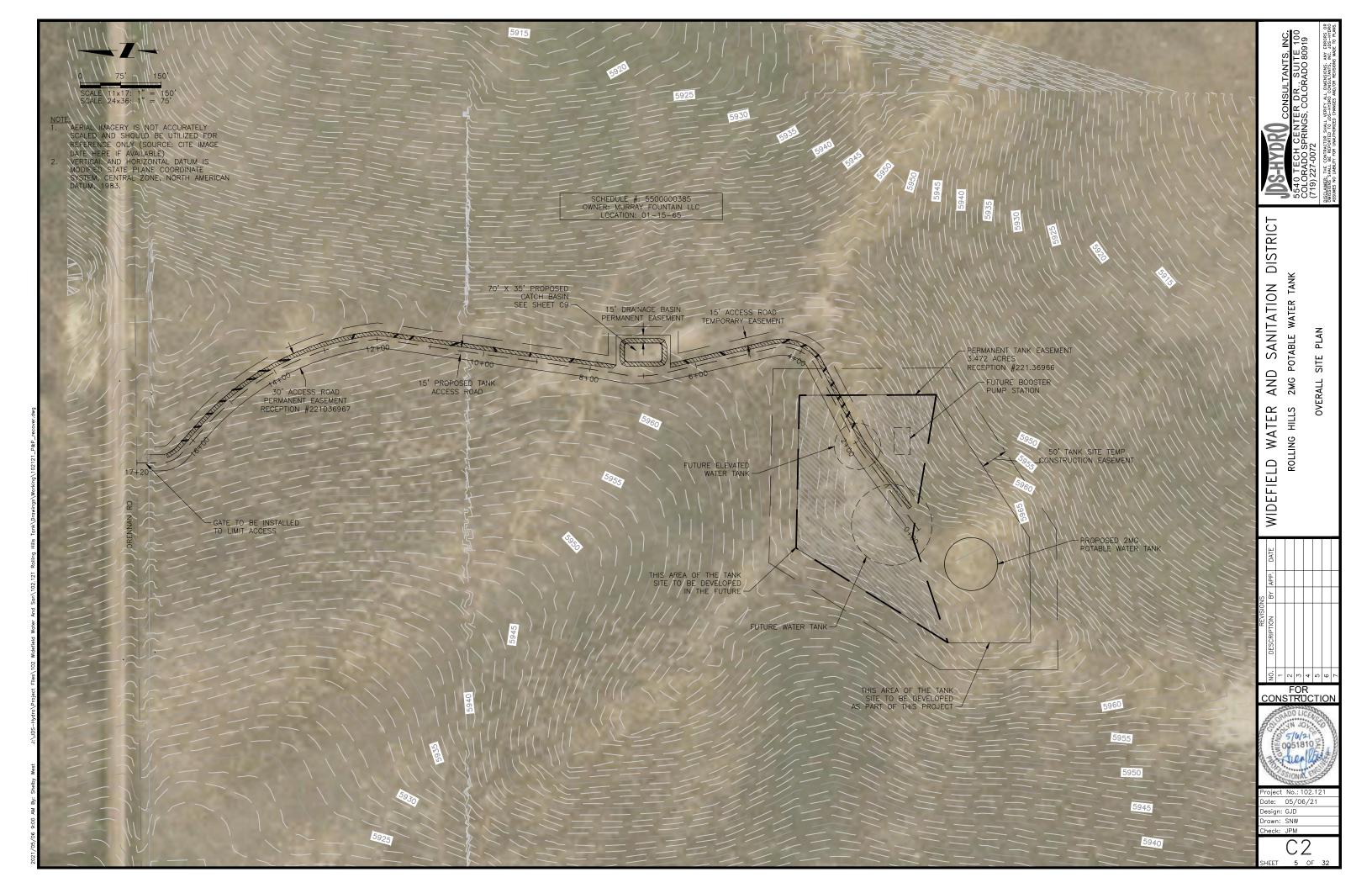


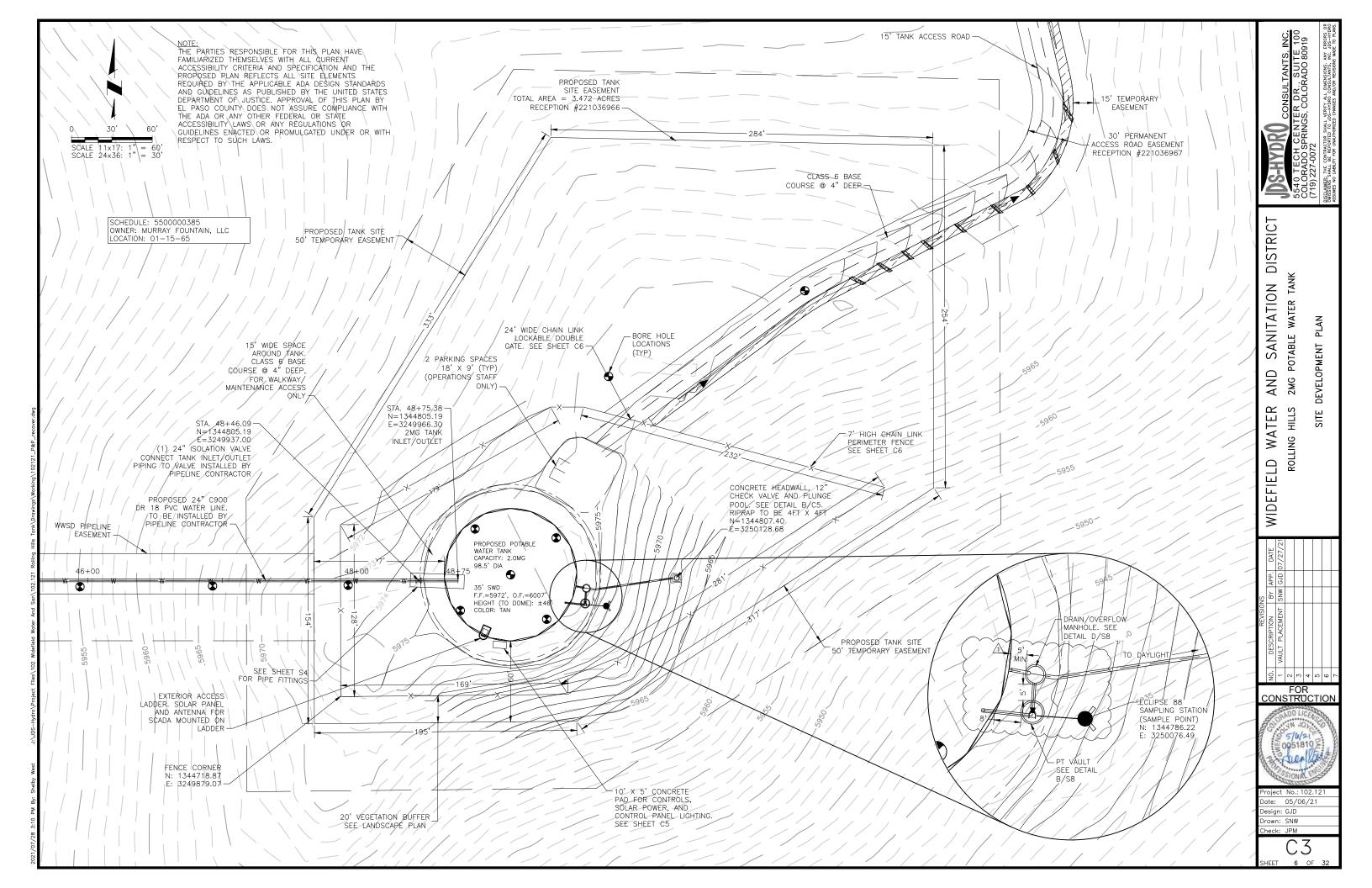


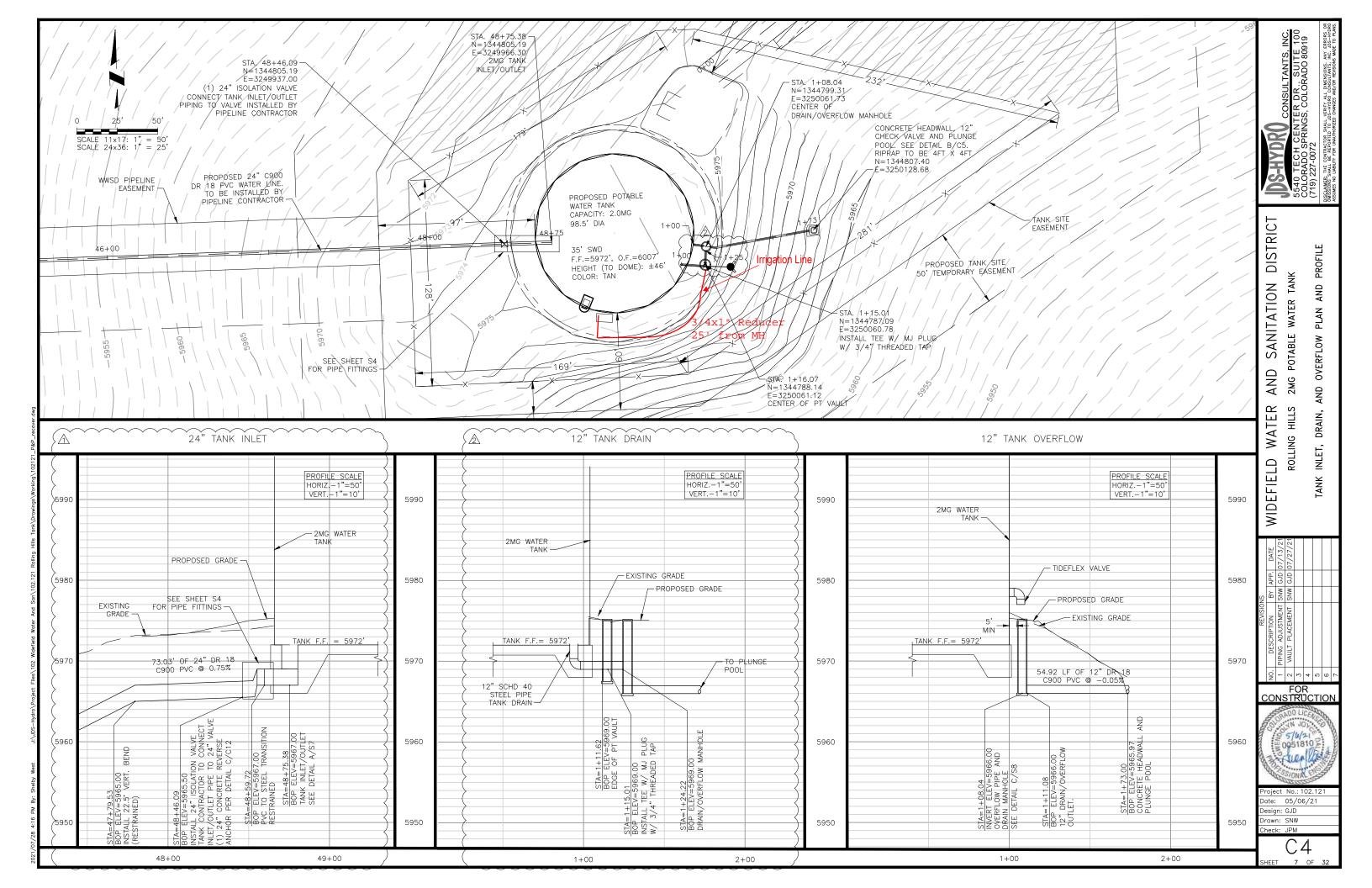


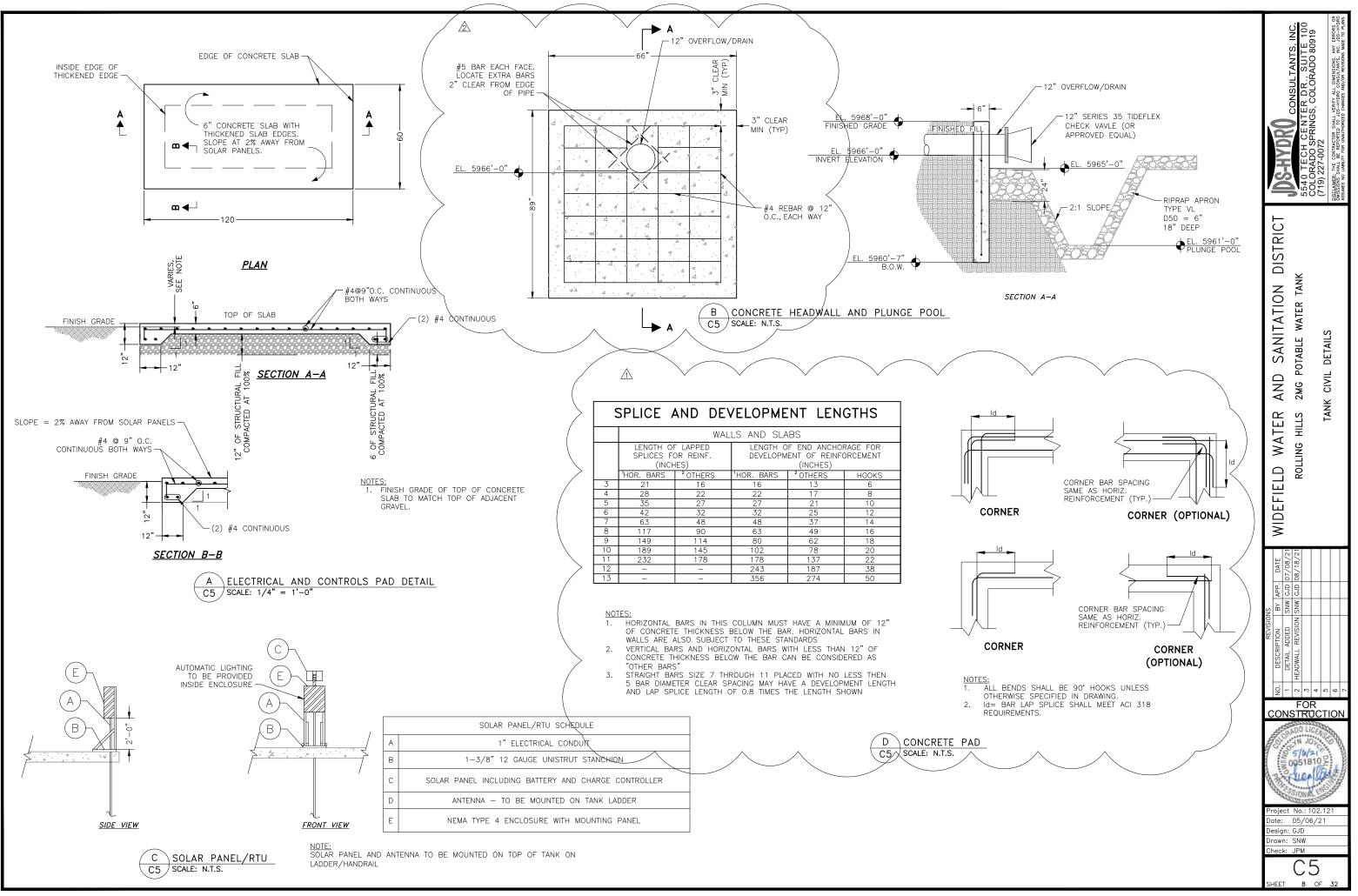




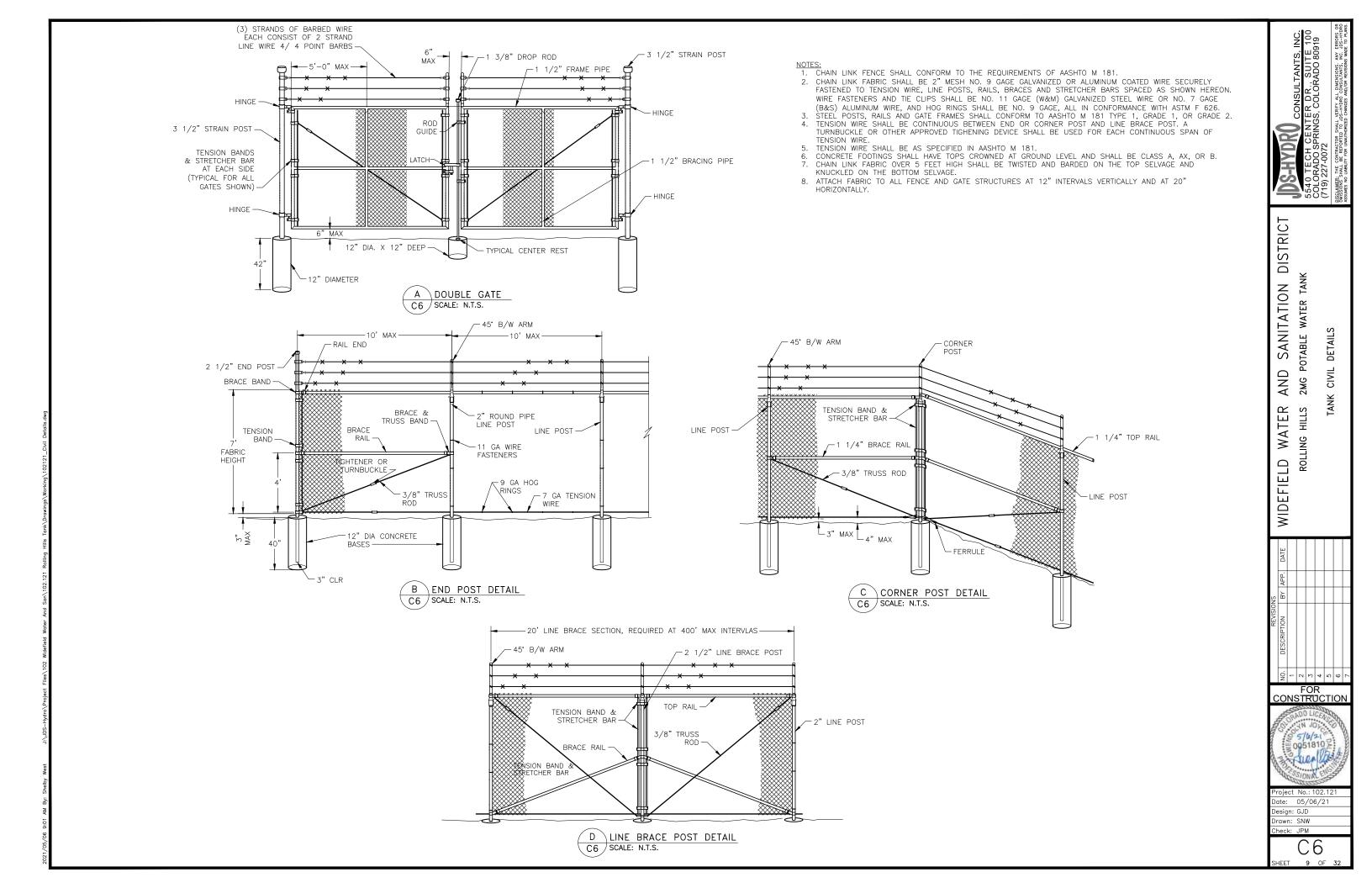


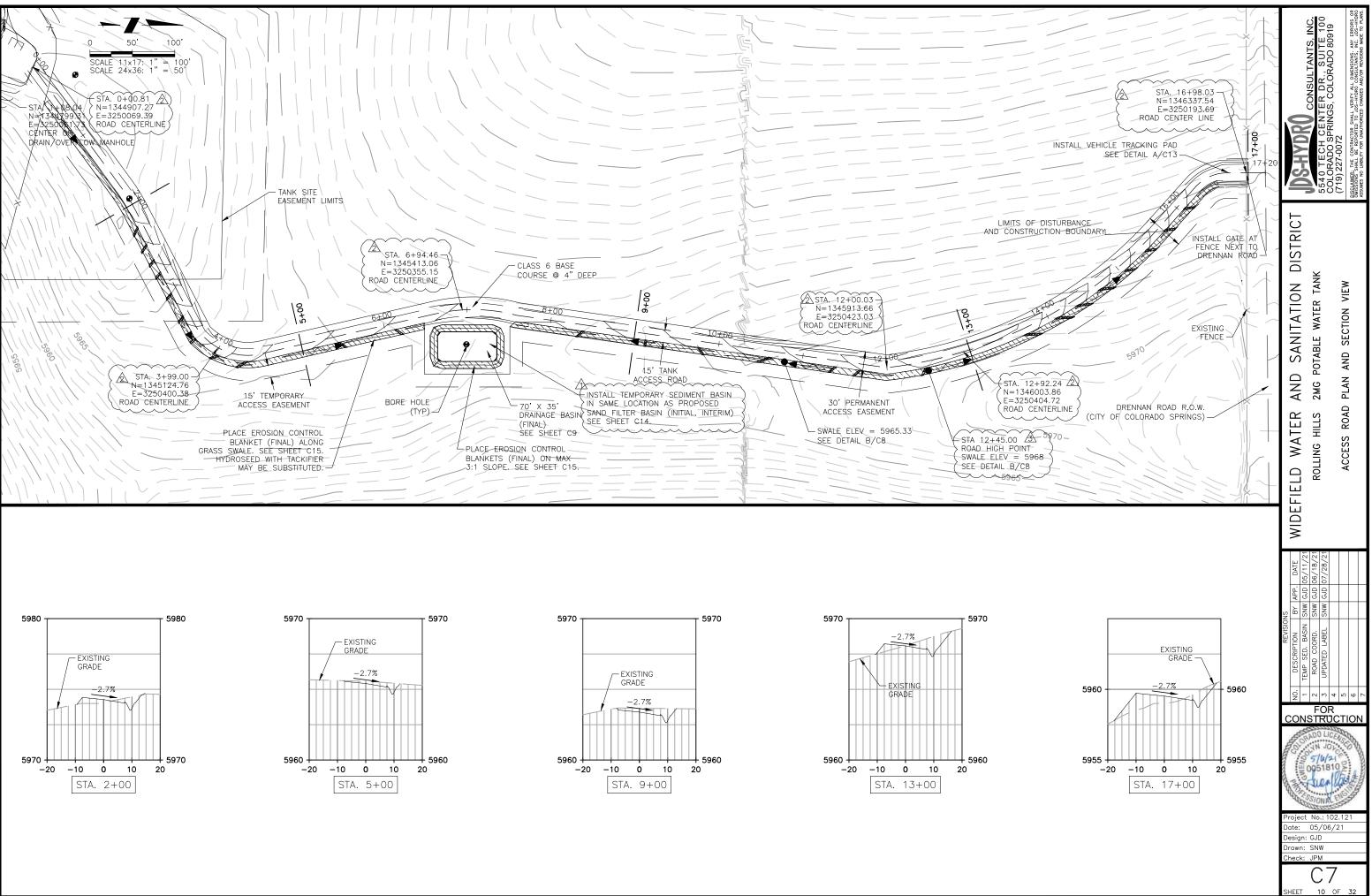


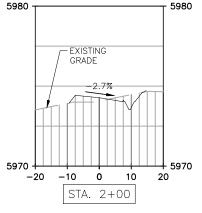


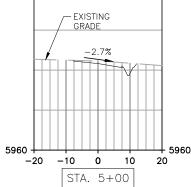


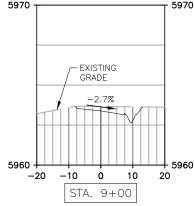
38 PM By: Shelby West J:\JDS-Hydro\Project Files\102 Widefield

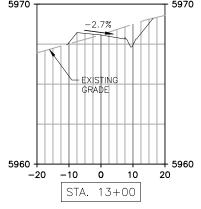


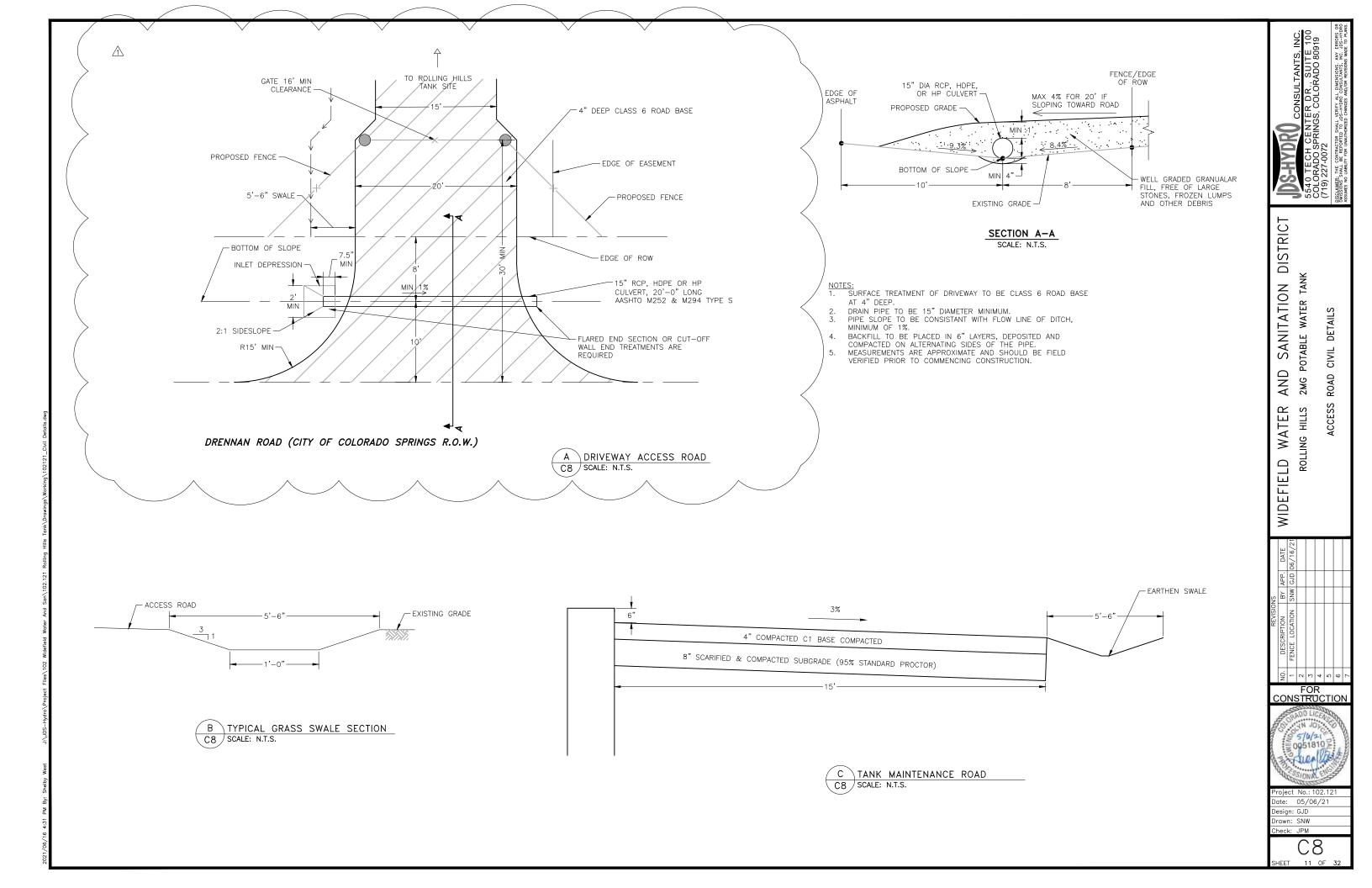


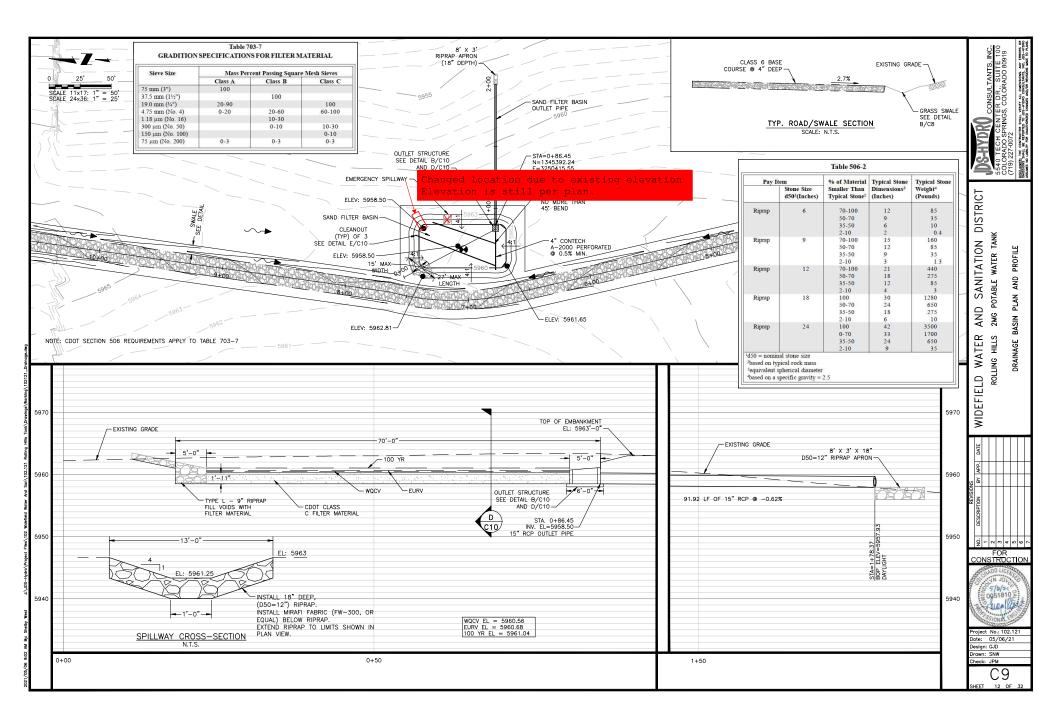


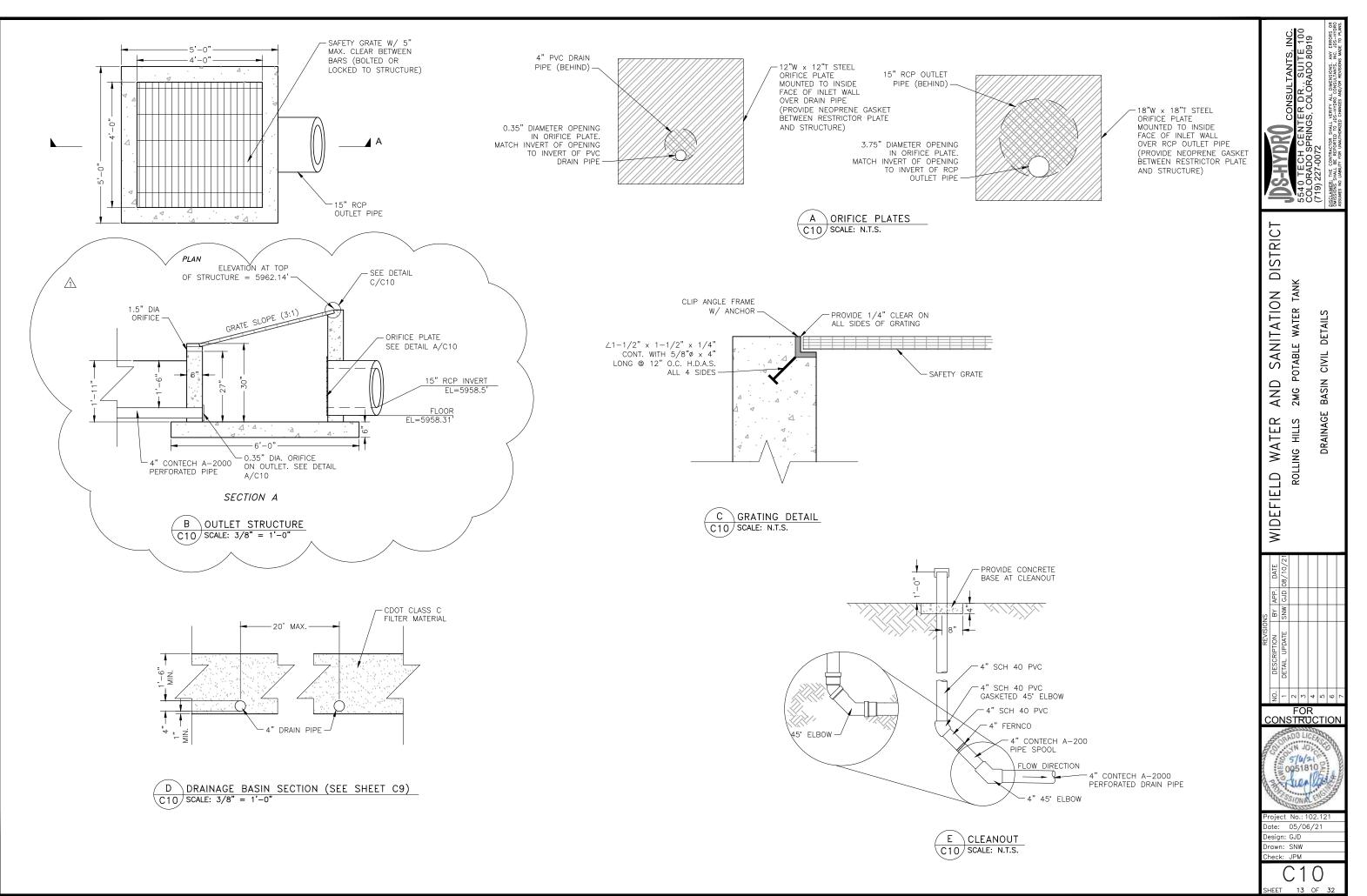


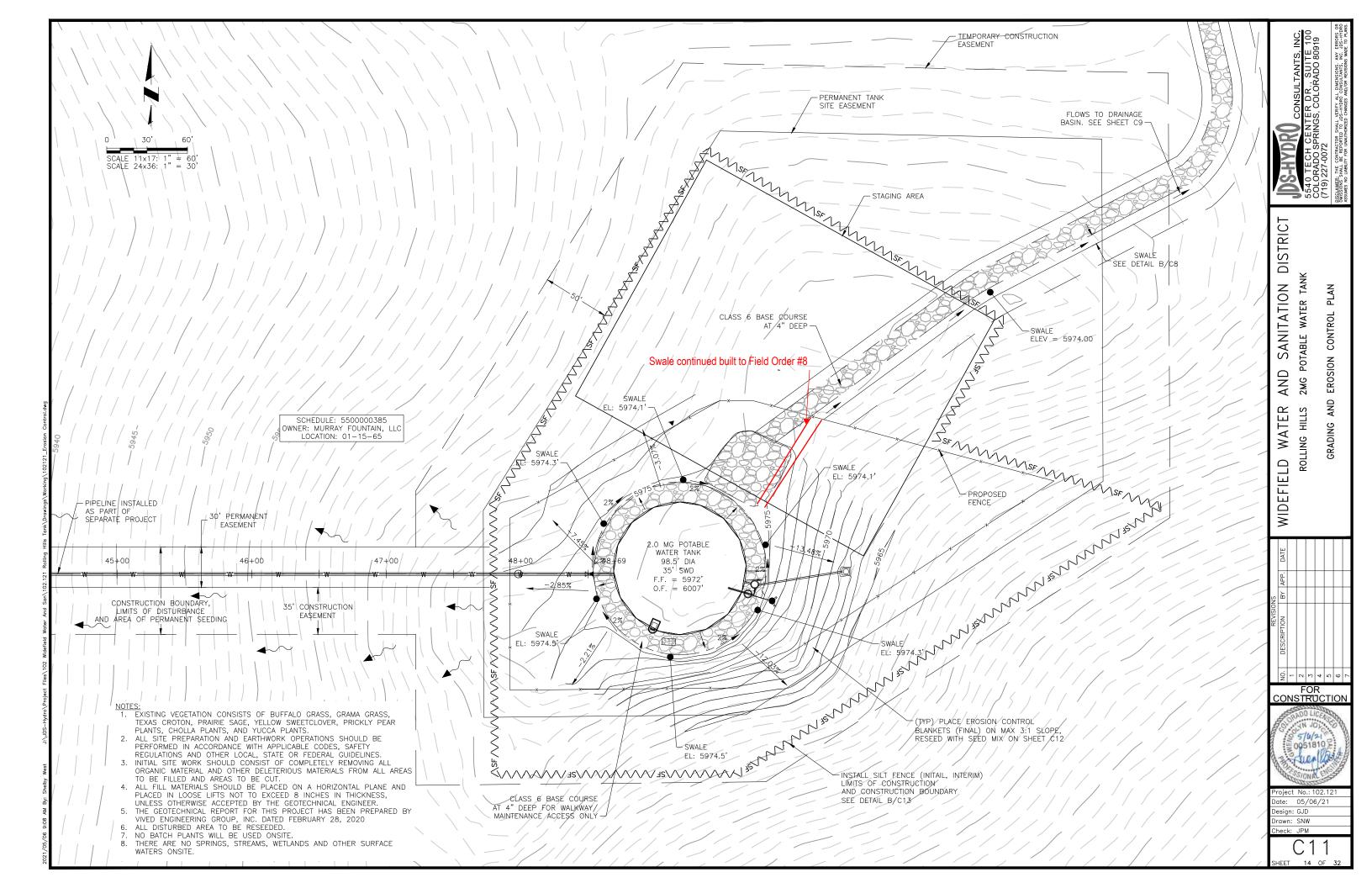












EROSION CONTROL NOTES

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OF GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE, AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWO) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFE
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE 6. MAINTAINED AND REMAIN IN EFFECTIVE OPERATION CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURE ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED NTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABLIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS, ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED
- 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATION COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S)
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- 13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- 14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- 15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE 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
- 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET. ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY
- 19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

- 20. 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.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 24. OWNER/DEVELOPER AND THEIR AGENTS 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 OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041. NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OR OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, IN THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES
- 27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY VIVID ENGINEERING GROUP AND SHALL BE CONSIDERED A PART OF THESE PLANS. (REV 2: 01/07/21)
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ON (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

ESTIMATED TIMING, CONSTRUCTION STAGING AND SEQUENCING:

INSTALL TEMPORARY EROSION CONTROL - 1 WEEK PERIMETER SILT FENCING – STRAW BALE BARRIERS PROJECT INSTALLATION – 5 MONTHS INSTALL FINAL SITE IMPROVEMENTS - 4 WEEKS REMOVE TEMPORARY EROSION CONTROL - 2 DAYS

MINIMUM BEST MANAGEMENT PRACTICES ELEMENTS:

- STEP 1- FROSION AND SEDIMENT CONTROL
- INSTALL SEDIMENT TRAPPING DEVICES (PERIMETER CONTROLS) PRIOR TO THE START OF CONSTRUCTION.
- 2- SPILL PREVENTION AND RESPONSE STEP 3- MATERIAL MANAGEMENT MATERIAL AND EQUIPMENT STORAGE AREAS SHALL BE
 - SECURE AND CONTAINED TO PREVENT DISCHARGE OF ANY MATERIAL IN RUNOFF. WASTE SHALL BE CONTAINED AND DISPOSED OF PROPERLY. MAINTAIN BMP'S DURING BUILDING AND UTILITY CONSTRUCTION.
- STEP 4- INSPECTION AND MAINTENANCE (SEE EROSION CONTROL NOTES)
- STEP 5- INSTALL FINAL STABILIZATION BASE COURSE, LANDSCAPING, EROSION CONTROL BLANKETS, AND SEEDING.
- STEP 6- REMOVE TEMPORARY CONTROLS SILT FENCING AFTER PERMANENT FEATURES ARE INSTALLED.

FINAL STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT:

FINAL STABILIZATION MEASURES INCLUDE BASE COURSE AND REVEGETATION

EARTHWORK SUMMARY

- PROPOSED SITE CUT - 1210.22 CY FILL - 580.23 (*1.15) = 667.26 CYNET = 542.96 CY CUT
- PROPOSED ACCESS ROAD CUT - 316.29 CY -323.09 (*1.15) = 317.55 CY = 1.26 CY FILL

PROPOSED DRAINAGE BASIN CUT - 469.66 CY FILL - 2.35 (*1.15) = 2.70 CY= 466.96 CUT

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS
 ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
 CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITY NOTIFICATION ON THE PLANS OR NOT, DEFORE BEGINNING CONSTRUCTION. CALL 811 TO CONTRACTOR SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO
 CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRAING AND EROSION CONTROL PLAN. THE STORMATER MANACEMENT BY AND (SMARD) THE SOLIS AND CEDETCHNICAL REPOSITION THE

- PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE
- FOLLOWING A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- BRIDGE CONSTRUCTION.
- D. CDOT M & S STANDARDS
- RECTIEY.

- FROSION AND STORMWATER QUALITY CONTROL PERMIT (ESOCP), REGIONAL BUILDING ELOODPLAIN

- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
 CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN
- THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS. 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE

AREAS DISTURBED BY THE EARTHWORK SHALL BE PERMANENTLY REVEGETATED WITH NATIVE GRASSES. NATIVE SEED MIX FOR THIS PROJECT SHALL BE AS FOLLOWS:

COMMON NAME	RECOMMENDED CULTIVAR	% OF SEED MIX	RATE	RIGATED PLS PER ACRE BROADCAST
BIG BLUESTEM, NATIVE	KAW, BISON, CHAMP	20.00%	5.5	11.0
BLUE GRAMA, NATIVE	LOVINGTON, HACHITA, ALMA	10.00%	1.5	3.0
GREEN NEEDLEGRASS, NATIVE	LODORM	10.00%	5.0	10.0
WESTERN WHEATGRASS, NATIVE	ARRIBA, BARTON	20.00%	8.0	16.0
SIDEOATS GRAMA, NATIVE	VAUGHN, BUTTE, EL RENO, NINER	10.00%	4.5	9.0
SWITHGRASS, NATIVE	BLACKWELL, GREENVILLE	10.00%	2.0	4.0
PRAIRIE SANDREED, NATIVE	GOSHEN, PRONGHORN	10.00%	3.5	7.0
YELLOW INDIANGRASS, NATIVE	CHEYENNE, HOLT, LLANO	10.00%	5.0	10.0

THE RATE AND RAKE 1/4" TO 1/2" INTO THE TOPSOIL. MULCHING APPLICATION: 2 TONS NATIVE HAY PER ACRE, MECHANICALLY CRIMPED INTO THE TOPSOIL.

. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2 . COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND

D. CDOT M & S STANDARDS. NOTWITHSTANDING ANTIHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING, ANY MODIFICIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO PECTEV

IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITION WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY. CONTRACTOR SHALL SCHEDULE A RE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) – INSPECTION, PRIOR TO STARTING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY

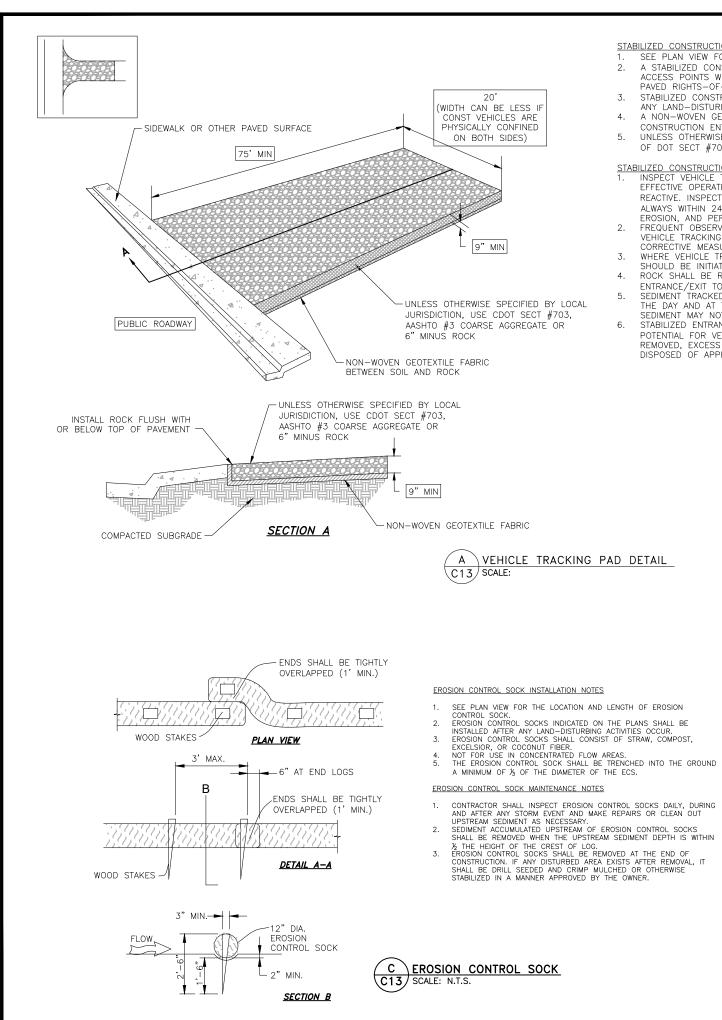
EROSION AND STORWMATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB XAND GUTTER AND PAVEMENT.
ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT THE APPROVED CONSTRUCTION ACCESS POINTS.
SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SITE TRIANGLES.

OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SEED MIX

SEEDING APPLICATION: DRILL SEED 1/4" TO 1/2" INTO TOPSOIL IN AREAS INACCESSIBLE TO A DRILL, HAND BROADCAST AT DOUBLE

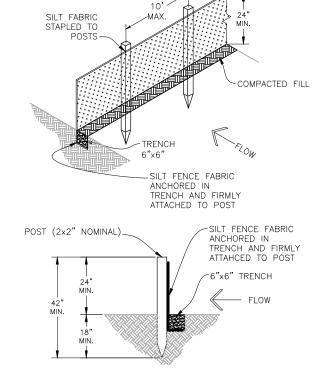
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	SN JPI	05 GJI	SIL	SE 7 50	F ST	2			ROLLING HILLS 2MG POTARLE WATER TANK	CONSULIANTS, INC.
1		D		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 Rl	r)				5540 TECH CENTER DR., SUITE 100
2	_	572	02	ICE 020	R JC	4				CULURADU SPRINGS, CULURADU 80919
2		21	.12	ASS & DA	т	2			FROSION CONTROL NOTES	(113) 221-0012
			1	8	0	9				DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO CONSULTANTS, INC. JDS-HYDRO
			E STAT	ALCON T	N	7				ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.



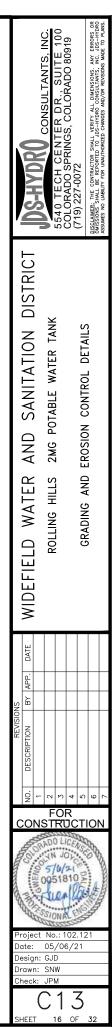
STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES:

- SEE PLAN VIEW FOR LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL 2.
- ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHTS-OF-WAY. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO 3.
- ANY LAND-DISTURBING ACTIVITIES. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED 4.
- CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- 5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES: 1. INSPECT VEHICLE TRACKING PAD EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT VEHICLE TRACKING PAD AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE
- EROSION, AND PERFORM NECESSARY MAINTENANCE. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN 2. VEHICLE TRACKING PAD IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY
- WHERE VEHICLE TRACKING PAD HAVE FAILED. REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 3.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- STABILIZED ENTRANCE IS TO BE REMOVED WHEN THERE IS NO LONGER THE POTENTIAL FOR VEHICLE TRACKING. WHEN A CONSTRUCTION ENTRANCE/EXIT IS REMOVED, EXCESS SEDIMENT FOR THE AGGREGATE TO BE REMOVED AND DISPOSED OF APPROPRIATELY.



 $B \setminus SILT FENCE DETAIL$ C13 SCALE: N.T.S.



INSTALLATION REQUIREMENTS:

1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY BE SPLICE SEALED.

3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.

4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH $3/4^{\circ}$ LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.

5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.

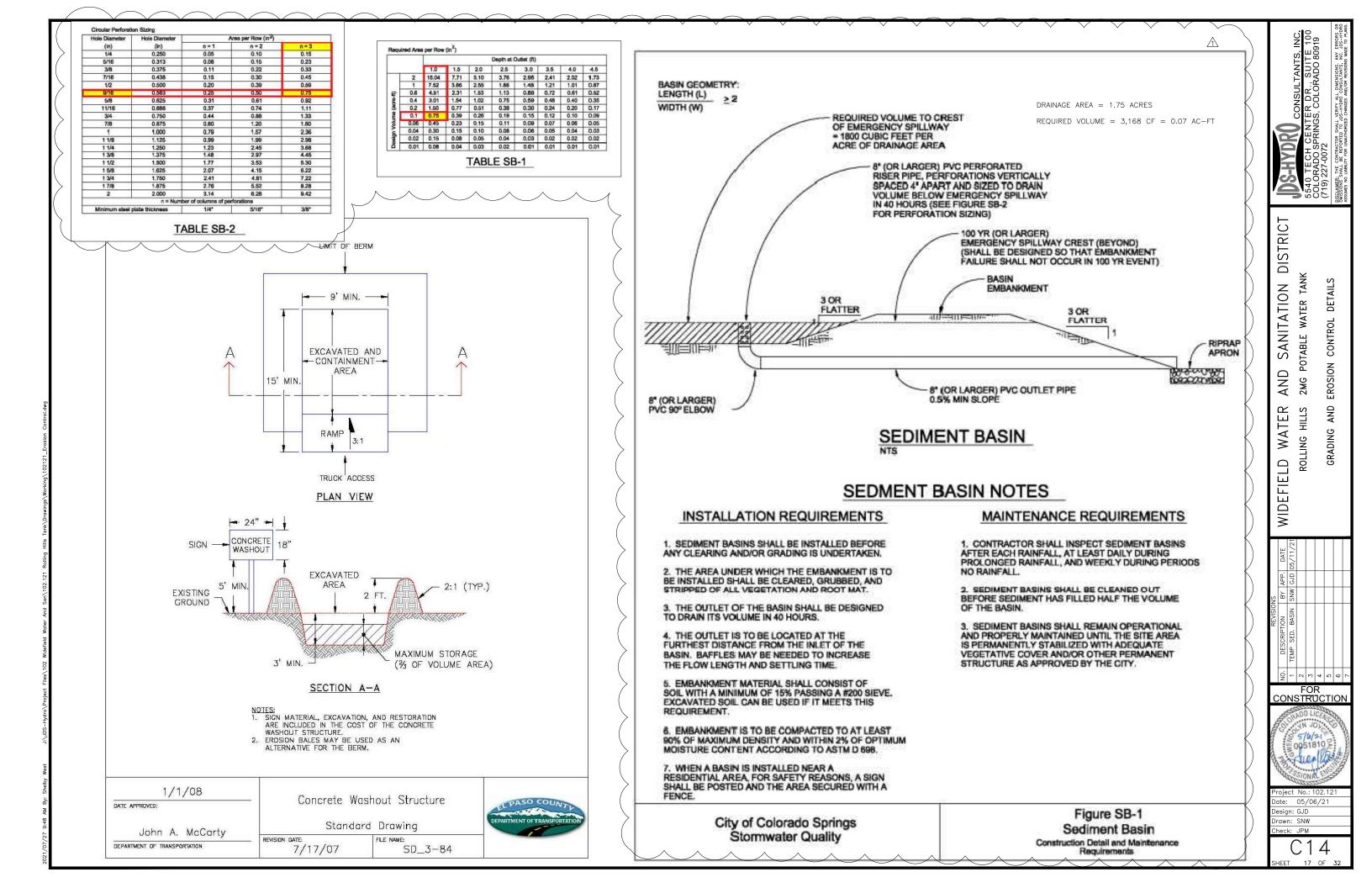
7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE

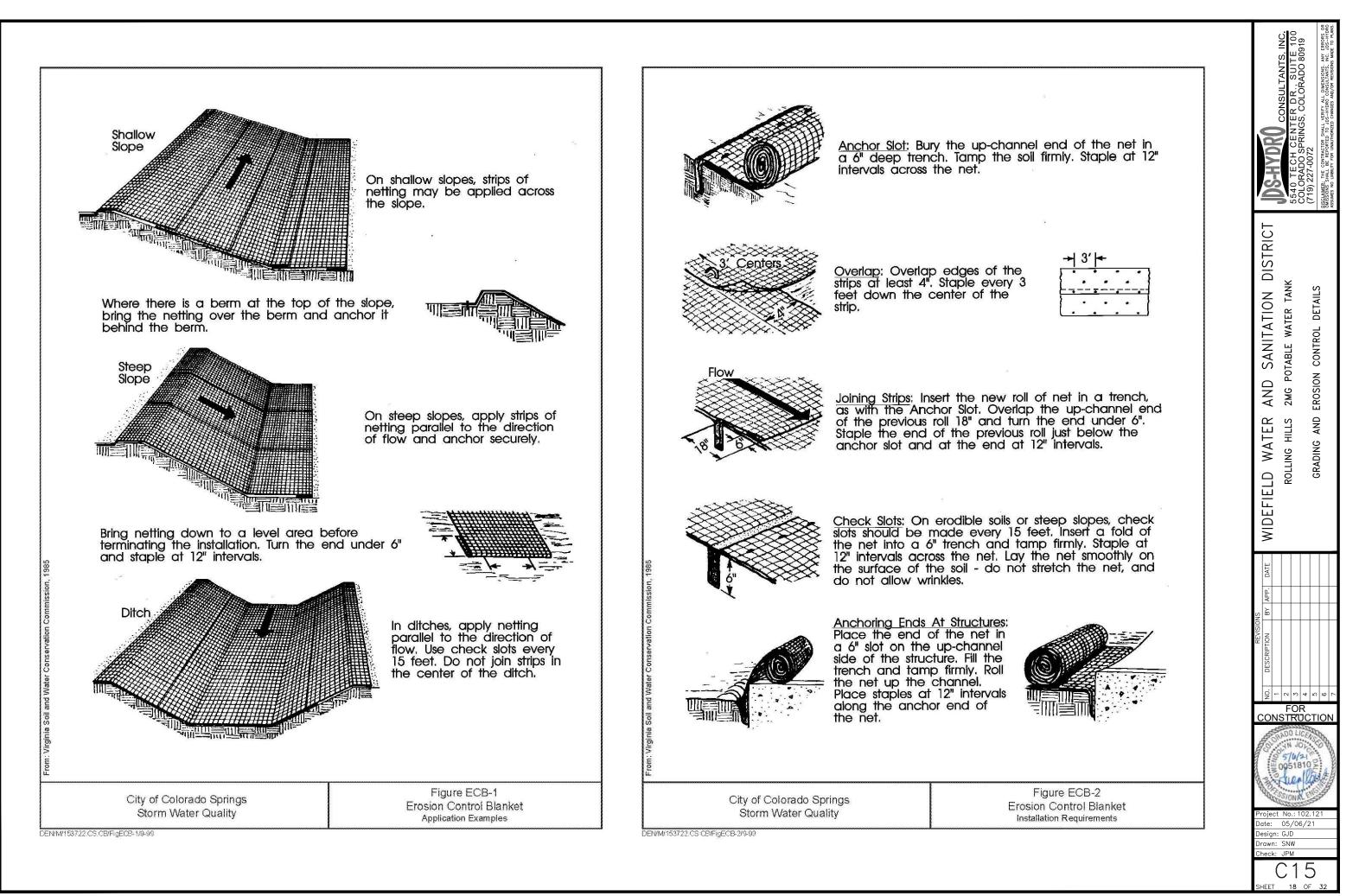
MAINTENANCE REQUIREMENTS:

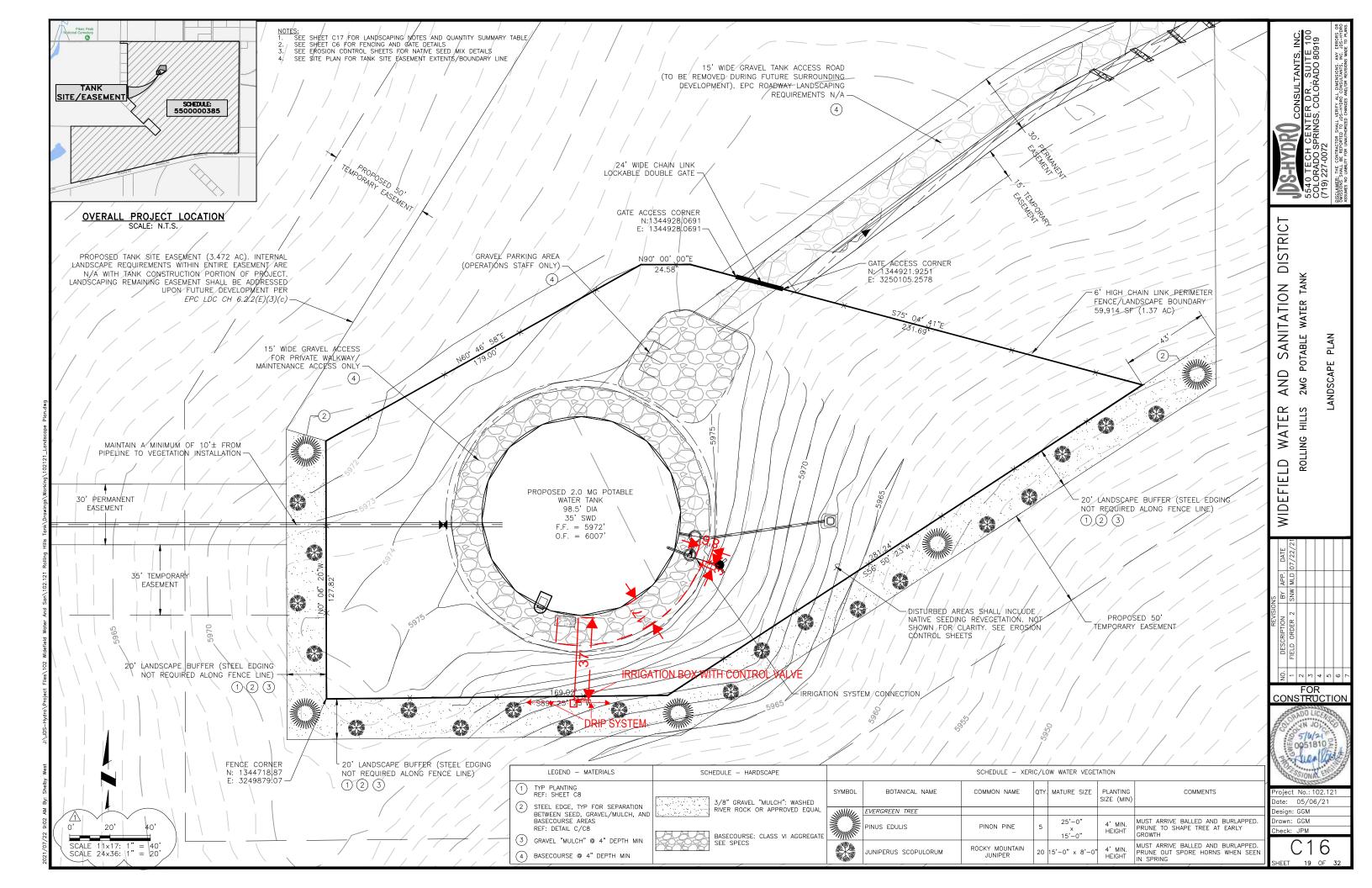
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INFFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.

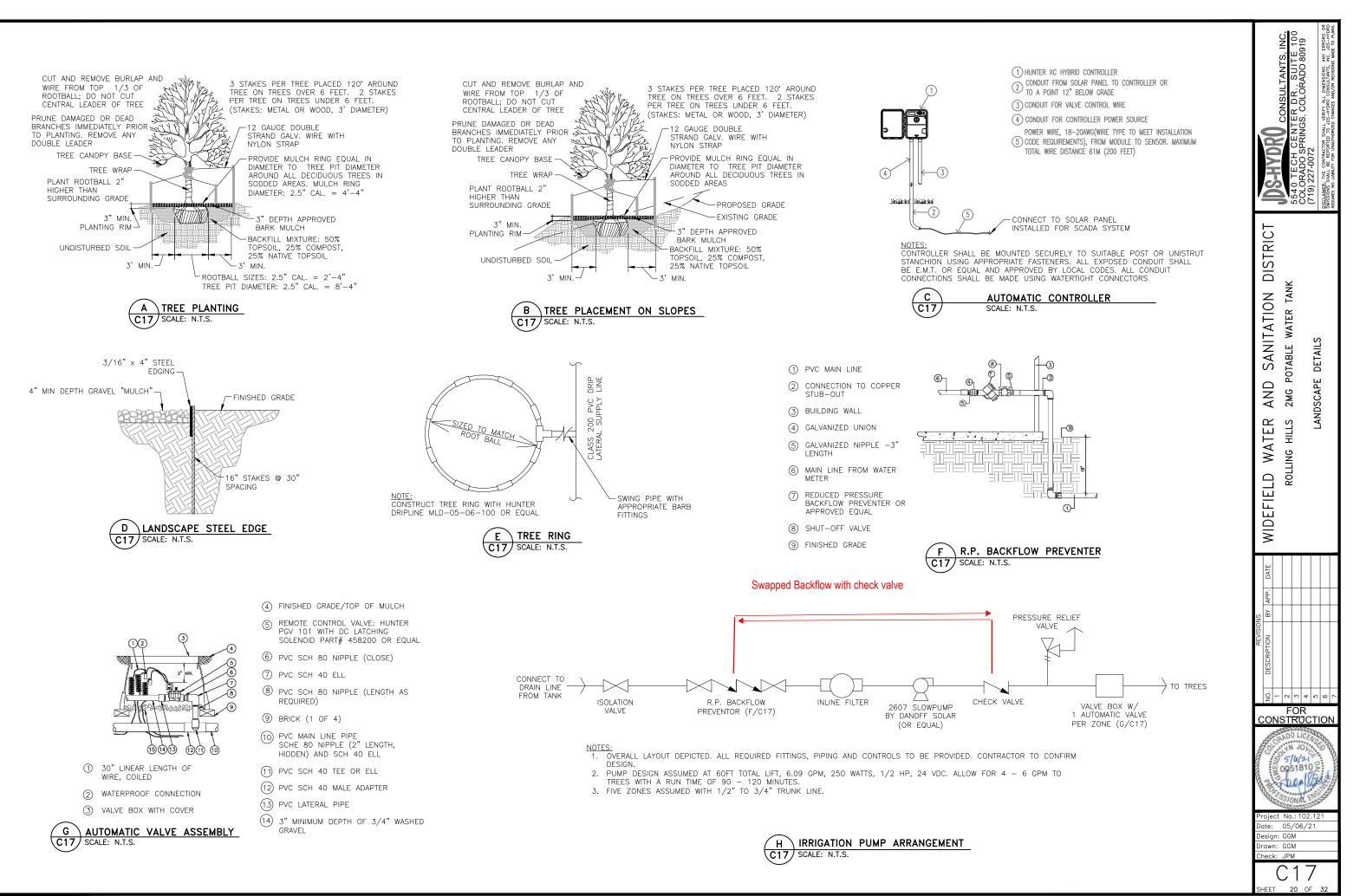
2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED









LANDSCAPE MAINTENANCE

- 1. THE OWNER IS RESPONSIBLE FOR ALL REGULAR AND NORMAL MAINTENANCE OF REQUIRED LANDSCAPING INCLUDING WEEDING, IRRIGATION, FERTILIZING, PRUNING, AND MOWING.
- 2. REPLACEMENT OF DEAD, DISEASED, OR SUBSTANTIALLY DAMAGED PLANT MATERIALS SHALL OCCUR WITHIN 6 MONTHS FROM WHEN THE PLANT MATERIAL DIED, OR WHEN THE INSPECTION DETERMINED THE PLANT MATERIAL WAS DEAD OR DAMAGED. REPLACEMENT SHALL BE OF THE SAME OR SIMILAR TYPE AS ORIGINALLY APPROVED. AN ALTERNATIVE TYPE OF SPECIES SHALL REQUIRE APPROVAL BY THE PCD DIRECTOR.
- 3. MAINTENANCE INSPECTIONS MAY BE PERFORMED PERIODICALLY, FAILURE TO MAINTAIN THE LANDSCAPING IN COMPLIANCE WITH THE APPROVAL IS CONSIDERED A ZONING VIOLATION.

LANDSCAPE PLANTINGS/INSTALLATIONS:

- <u>PLANT QUANTITY AND SUBSTITUTION:</u> IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT TABLE AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLANTING PLAN SHALL GOVERN. THE MINIMUM ACCEPTABLE SIZES OF PLANTS MEASURED BEFORE 1. PRUNING WITH BRANCHES IN NORMAL POSITION SHALL CONFORM TO THE PLANTING SIZES AS SPECIFIED IN THE SCHEDULE. ANY SUBSTITUTION OF PLANT SIZE OR SPECIES MUST BE SUBMITTED TO THE ENGINEER IN WRITING FOR APPROVAL PRIOR TO INSTALLATION.
- 2. ACCEPTABLE PLANT MATERIAL: ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET BY THE "COLORADO NURSERY ASSOCIATION," AND THE "AMERICAN STANDARD OF NURSERY STOCK." ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES, HEALTHY, FREE OF DISEASE, INSECT PESTS, MECHANICAL INJURIES, AND HAVE ADEQUATE ROOT SYSTEMS. ALL PLANTINGS SHALL BE INSTALLED PER PLANTING DETAILS. ALL PLANT MATERIAL SHALL BE INSPECTED BY THE ENGINEER OR OWNER PRIOR TO INSTALLATION. STAKING/CONTRACTOR INSPECTION NOTE: ALL PLANTING LOCATIONS TO BE STAKED AND INSPECTED BY CONTRACTOR PRIOR TO INSTALLATION. ALL PLANTS TO BE INSPECTED AT NURSERY LOCATION PRIOR TO TRANSPORTING TO THE SITE.
- 3. SITE DISTURBANCE: ALL AREAS OF SITE DISTURBANCE DUE TO CONSTRUCTION SHALL BE RENOVATED OR PLANTED PER THIS PLAN UNLESS OTHERWISE NOTED.
- 4. <u>SOIL AMENDMENTS:</u> CONTRACTOR SHALL AMEND PLANTING AREAS AS FOLLOWS: -ADD MINIMUM OF 3 CUBIC YARDS OF WELL-COMPOSTED, AGED MANURE OR PREMIUM COMPOST
 - PER 1000 S.E. -ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO PLANTING. -3 CUBIC YARDS PER 1000 S.F. OF WELL-COMPOSTED, AGED MANURE OR PREMIUM COMPOST. -ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO PLANTING.
- 5. <u>SEEDED TURF:</u> ALL SEEDED OR HYDRO-MULCHED AREAS SHALL DEMONSTRATE 95% GERMINATION PRIOR TO FINAL ACCEPTANCE
- 6. IRRIGATION: OWNER TO HAND WATER FOR ONE TO TWO GROWING SEASONS UNTIL ESTABLISHED AND ON AN AS-NEEDED BASIS THEREAFTER. DISTURBED AREA SEED/GRASS MIXTURE MUST BE IRRIGATED BY OWNER UNTIL ESTABLISHED AND IN TIMES OF DROUGHT. THE ON-GOING MAINTENANCE OF THE NATIVE GRASS IS THE RESPONSIBILITY OF OWNER.
- 7. INORGANIC MULCH AND FABRIC: ALL PLANTINGS TO RECEIVE 3-INCH DEPTH OF INORGANIC MULCH. MULCH RINGS TO BE 15-INCH DIA. FOR (5) GALLON SHRUBS/GRASSES. HIGH QUALITY COMMERCIAL-GRADE (SPUN-BONDED POLYPROPYLENE OR EQUAL) LANDSCAPING FABRIC SHALL BE APPLIED UNDER ALL ROCK BASES.
- 8. <u>STEEL EDGE:</u> ALL EDGER SHALL BE ACME 4" <u>PERFORATED</u> STEEL EDGER "SELF COLORING" 14 GAUGE OR APPROVED EQUAL.
- 9. APPROVAL: ANY FIELD CHANGES OR DEVIATIONS TO THESE PLANS WITHOUT PRIOR APPROVAL OF AN AMENDED DEVELOPMENT PLAN MAY RESULT IN A DELAY OF FINAL APPROVAL AND THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 10. FINAL TREE AND SHRUB LOCATIONS: ALL TREE LOCATIONS SHALL BE STAKED FOR APPROVAL BY OWNER REPRESENTATIVE/ENGINEER PRIOR TO PLANTING. SHRUBS SHALL BE PLACED IN THEIR LOCATIONS PER THIS PLAN AND APPROVED BY OWNER REPRESENTATIVE/ENGINEER. THE FINAL LOCATION OF TREES TO BE PLANTED MAY REQUIRE ADJUSTMENT BASED ON APPROVAL OF THE FINAL UTILITIES PLANS AND ASSOCIATED FINAL PLAT AND EASEMENTS.

REVEGETATED WIT	SEED D BY THE EARTHWC H NATIVE GRASSES HALL BE AS FOLLO RECOMMENDED CULTIVAR	ORK SHALL I . NATIVE S	EED MIX F					DS-HYDRO CONSULTANTS, INC.	5540 TECH CENTER DR., SUITE 100 COLORADO SPRINGS, COLORADO 80919 (719) 227-0072
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NATIVE BLUE GRAMA, NATIVE	CHAMP LOVINGTON, HACHITA, ALMA	10.00%	1.5	3.0	_			DISTRICT	
GREEN NEEDLEGRASS, NATIVE	LODORM	10.00%	5.0	10.0	_				ANK
WESTERN WHEATGRASS, NATIVE	ARRIBA, BARTON	20.00%	8.0	16.0	_			ATIO	AIEK
SIDEOATS GRAMA, NATIVE	VAUGHN, BUTTE, EL RENO, NINER	10.00%	4.5	9.0	_			SANITATION	.S 2MG POTABLE WATER TANK LANDSCAPF NOTFS
SWITHGRASS, NATIVE	BLACKWELL, GREENVILLE	10.00%	2.0	4.0	-				A PF N
PRAIRIE SANDREED, NATIVE	GOSHEN, PRONGHORN	10.00%	3.5	7.0				AND	2MG NDSCAF
YELLOW INDIANGRASS, NATIVE	CHEYENNE, HOLT, LLANO	10.00%	5.0	10.0				WATER	ROLLING HILLS
								WIDEFIELD V	KULLIN
TIVE LANDSCAPI	NG DATA:							>	
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TIVE LANDSCAPI AREA (LESS FU BETWEEN NON-F	iture easeme Residential &			,			ł	DATE	
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ALTERNATIVE COUNT OF AUDITION COUNT OF AUDITION BURELUSTEN, KAW, BISON, 20:00% 5.5 11.0 MEREDUBRASS, LOCORM 10:00% 5.3 10.0 MEREDUBRASS, LOCORM 10:00% 5.0 16.0 SIDECATS GRAMA, WURHA, BURTE, 10:00% 2.0 4.0 SIDECATS GRAMA, WURHA, BURTE, 10:00% 3.5 7.0 SWITHGRASS, MATIVE BUCKNICUL 10:00% 3.6 10.0 SWITHGRASS, MATIVE BUCKNICUL 10:00% 3.6 10.0 VINITY RANDEL 10:00% 3.6 10.0 SWITHGRASS, MATIVE BUCKNICUL 10:00% 3.6 10.0 VINITY RANDEL 10:00% 3.6 10.0 SUITH REASS, MATIVE LANDO 59,914 39,914 BUFFER BETWEEN NON-RESIDENTIAL & FUTURE RESIDENTAL 59,914 39,12 </th <th>REVEGETATED</th> <th>SEED RBED BY THE EARTHWO WITH NATIVE GRASSES SHALL BE AS FOLLO RECOMMENDED CULTIVAR</th> <th>ORK SHALL . NATIVE S</th> <th>EED MIX F</th> <th>OR IGATED PLS PER ACRE</th> <th></th> <th></th> <th>DS-HYDRO 5540 TECH CENTER DR., SUITE 100 COLORADO SPRINGS, COLORADO 80919</th> <th>(719) 227-0072 DESLAMMER. THE CONTRACTOR SHALL VEHTY ALL DIMENSIONS. ANY ERRORS OR DUSSIONS SHALL WE REPORTED to DIS-THORD CONSULTANTS IN: DIS-THORD ASSURDS TO LIVERING FOR INTELNOOPED CLARKER AND FOR PRIVANCE FOR INCOME</th>	REVEGETATED	SEED RBED BY THE EARTHWO WITH NATIVE GRASSES SHALL BE AS FOLLO RECOMMENDED CULTIVAR	ORK SHALL . NATIVE S	EED MIX F	OR IGATED PLS PER ACRE			DS-HYDRO 5540 TECH CENTER DR., SUITE 100 COLORADO SPRINGS, COLORADO 80919	(719) 227-0072 DESLAMMER. THE CONTRACTOR SHALL VEHTY ALL DIMENSIONS. ANY ERRORS OR DUSSIONS SHALL WE REPORTED to DIS-THORD CONSULTANTS IN: DIS-THORD ASSURDS TO LIVERING FOR INTELNOOPED CLARKER AND FOR PRIVANCE FOR INCOME
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SWITHGRASS, NATIVE BLACKWILLE 10.007 2.0 4.0 PRAIRIE SANDREED, GOSHEN, 10.007 3.5 7.0 VELLOW INDIANGRASS, CHEYENNE, 10.007 5.0 10.0 ALTERNATIVE LANDSCAPING DATA: NATIVE NONT EXECURED CONTACT 59,914 BUFFER AREA (LESS FUTURE EASEMENT DEVELOPMENT) 59,914 BUFFER KEQUIRED/PROVIDE 15'/20' TREES REQUIRED (© 1/25 LF)/PROVIDE/ 25/25 LVE GROUND COVERAGE REQUIRED/PROVIDE/ 59,707 OTHER FUNCTAGE LANDSCAPE (N/A) RAKING LOT LANDSCAPE (N/A) India	NATIVE	CHAMP LOVINGTON,				_		STRIG	
SWITHGRASS, NATIVE BLACKWILLE 10.007 2.0 4.0 PRAIRIE SANDREED, GOSHEN, 10.007 3.5 7.0 VELLOW INDIANGRASS, CHEYENNE, 10.007 5.0 10.0 ALTERNATIVE LANDSCAPING DATA: NATIVE NONT EXECURED CONTACT 59,914 BUFFER AREA (LESS FUTURE EASEMENT DEVELOPMENT) 59,914 BUFFER KEQUIRED/PROVIDE 15'/20' TREES REQUIRED (© 1/25 LF)/PROVIDE/ 25/25 LVE GROUND COVERAGE REQUIRED/PROVIDE/ 59,707 OTHER FUNCTAGE LANDSCAPE (N/A) RAKING LOT LANDSCAPE (N/A) India	GREEN NEEDLEGRASS,	HACHITA, ALMA				_		N DIS TANK	
SWITHGRASS, NATIVE BLACKWELLE 10.007 2.0 4.0 PRAIRE SANDREED, RATIVE COSHEN, PRONCHORN 10.007 3.5 7.0 VELLOW INDANGRASS, MATIVE CHEYENNE, HOLT, LLANO 10.007 5.0 10.0 ALTERNATIVE LANDSCAPING DATA: NET SITE AREA (LESS FUTURE EASEMENT DEVELOPMENT) 59,914 BUFFER BETWEEN NON-RESIDENTIAL & FUTURE ERSIDENTIAL 59,914 BUFFER BETWEEN NON-RESIDENTIAL & FUTURE ERSIDENTIAL 15'/20' TREES REQUIRED (@ 1/25 LF)/PROVIDED 25/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 55/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER PARKING LOT LANDSCAPE (N/A) RAND FONTAGE LANDSCAPE (N/A) India		VE ARRIBA, BARTON	20.00%	8.0	16.0	_		ATIO 'ater	
SWITHCRASS, NATIVE BLACKWELLE 10.007 2.0 4.0 PRAIRIE SANDREED, NATIVE GOSHEN, PRONHORN 10.007 3.5 7.0 YELLOW INDIANGRASS, NATIVE CHEYENNE, HOLT, LLANO 10.007 5.0 10.0 ALTERNATIVE LANDSCAPING DATA:		EL RENO,	10.00%	4.5	9.0	-		SANIT Able w	NOTES
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VELLOW INDIANGRASS. CHEYENNE, ALTERNATIVE LANDSCAPING DATA: NET SITE AREA (LESS FUTURE EASEMENT DEVELOPMENT) 59,914 BUFFER BETWEEN NON-RESIDENTIAL & FUTURE RESIDENTIAL DEPTH REQUIRED/PROVIDED 15'/20' TREES REQUIRED (@ 1/25 LF)/PROVIDED 25/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER PARKING LOT LANDSCAPE (N/A) ROAD FRONTAGE LANDSCAPE (N/A)			10.00%	3.5	7.0				NDSC
ALTERNATIVE LANDSCAPING DATA: NET SITE AREA (LESS FUTURE EASEMENT DEVELOPMENT) 59,914 BUFFER BETWEEN NON-RESIDENTIAL & FUTURE RESIDENTIAL DEPTH REQUIRED/PROVIDED 15'/20' TREES REQUIRED (@ 1/25 LF)/PROVIDED 25/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER PARKING LOT LANDSCAPE (N/A) ROAD FRONTAGE LANDSCAPE (N/A)			10.00%	5.0	10.0			TER	LA
BUFFER BETWEEN NON-RESIDENTIAL & FUTURE RESIDENTIAL DEPTH REQUIRED/PROVIDED 15'/20' TREES REQUIRED (@ 1/25 LF)/PROVIDED 25/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER PARKING LOT LANDSCAPE (N/A) ROAD FRONTAGE LANDSCAPE (N/A)	ALTERNATIVE LANDSCA	PING DATA:						WIDEFIELD M	
BUFFER BETWEEN NON-RESIDENTIAL & FUTURE RESIDENTIAL DEPTH REQUIRED/PROVIDED 15'/20' TREES REQUIRED (@ 1/25 LF)/PROVIDED 25/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER PARKING LOT LANDSCAPE (N/A) ROAD FRONTAGE LANDSCAPE (N/A)	NET SITE AREA (LESS	FUTURE EASEME	INT DEVE	LOPMEN	IT)	59,914		DATE	
TREES REQUIRED (@ 1/25 LF)/PROVIDED 25/25 LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER 9 PARKING LOT LANDSCAPE (N/A) 9 ROAD FRONTAGE LANDSCAPE (N/A) 9			: FUTURE	e reside	ENTIAL	, / ,			+++
LIVE GROUND COVERAGE REQUIRED/PROVIDED 75%/70% OTHER PARKING LOT LANDSCAPE (N/A) ROAD FRONTAGE LANDSCAPE (N/A)									
PARKING LOT LANDSCAPE (N/A)								REVIS	
PARKING LOT LANDSCAPE (N/A)								DESCR	
ROAD FRONTAGE LANDSCAPE (N/A)	PARKING LOT LANDSCA	PE (N/A)						A 10.	6 5
INTERNAL LANDSCAPE (N/A)	ROAD FRONTAGE LAND	SCAPE (N/A)							
INTERNAL LAND SCALE (N/A)	INTERNAL LANDSCAPE	(N/A)						ANDO LIC	ANSCO NO

GENERAL DESIGN CRITERIA:

1.BUILDING CODES:

- A. THESE GENERAL NOTES APPLY TO ALL STRUCTURAL DRAWINGS. THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, THE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7), AND THE PIKES PEAK REGIONAL BUILDING CODE, 2017 EDITION.
- B.ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE CODES SPECIFIED ABOVE.
- 2.FOUNDATION DESIGN IN ACCORDANCE WITH SUBSURFACE SOIL INVESTIGATION BY VIVID ENGINEERING GROUP, DATED MARCH 5, 2020. (VIVID PROJECT NO. D20-2-282, REV 1)
- 3. TANK DESIGN SHALL CONFORM TO AWWA D110 TYPE III.
- 4. TANK DATA:
- NOMINAL CAPACITY 2,000,000 GALLONS
- INSIDE DIAMETER 98.5 FEET
- 35 FEET WALL HEIGHT
- OVERFLOW ELEV. 6007.00 FEET
- FINISH FLOOR ELEV. 5972.00 FEET
- DRAIN PIPE SIZE 12 INCHES
- INLET/OUTLET PIPE SIZE 24 INCHES
- ROOF VENT SHALL HAVE SUFFICIENT CAPACITY TO PASS 267.4 CFM OF AIR DURING FILLING AND 668.4 CFM WHILE EMPTYING SO THAT EXCESSIVE PRESSURE/VACUUM WILL NOT DEVELOP.
- THE MAXIMUM DESIGNED FLOWRATE INTO THE TANK IS 2,700 GPM
- THE MAXIMUM DESIGN FLOWRATE OUT OF THE TANK IS 45,000 GPM TO ACCOUNT FOR A PIPE BREAK.
- THE VENT SHALL BE CONSTRUCTED TO PREVENT THE ENTRANCE OF BIRDS, INSECTS, OR CONTAMINATING MATERIALS. THE VENT SHALL BE EASILY DISMANTLED FOR CLEANING.
- THE VENT SHALL BE SCREENED WITH FIBERGLASS 24 MECH SCREEN.
- 5.NO BACKFILLING OPERATIONS SHALL BE PERFORMED AGAINST FOUNDATION WALLS UNTIL THE CONCRETE HAS BEEN ALLOWED TO SUFFICIENTLY CURE.
- 6.SIZE AND LOCATION OF ALL EXISTING FACILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- 7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT ADJACENT PROPERTIES AND PUBLIC FACILITIES FROM ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF EARTHWORK AND CONSTRUCTION ACTIVITIES WITHIN THE PROJECT SITE.
- 8.REFER TO THE GEOTECHNICAL REPRT FOR LEVELING BASE SPECIFICATION, COMPACTION REQUIREMENTS, AND FOUNDATION PREPARATION. LEVELING BASE MATERIAL SHALL BE PROVIDED BENEATH THE TANK FLOOR, FOOTING, AND BOTTOM OF PIPE ENCASEMENTS.
- 9. THE GEOTECHNICAL ENGINEER SHALL EVALUATE THE SUBGRADE PRIOR TO PLACEMENT OF THE LEVELING BASE TO DETERMINE CONFIRMATION WITH THE GEOTECHNICAL REPORT.
- 10. REFER TO THE GEOTCHNICAL REPORT FOR SULFATE CONTENT FOR SOILS. ASSUME A CLASS 2 EXPOSURE OF SULFATE ATTACK.

TANK MATERIAL SPECIFICATIONS:

	28 DAY COMPRESSIVE	MAXIMUM AGGREGATE	TANK DESIGN
LOCATION OF CONCRETE	STRENGTH	<u>SIZE</u> 3/4	
PRECAST DOME PANELS	4,000 PSI		 GOVERNING E
CIP CONCRETE DOME	4,000 PSI	3/8	
DOME SLOTS	4,000 PSI	3/8	 ADDITIONAL (
DOME RING	4,000 PSI	3/8	
PRECAST WALL PANELS	4.000 PSI	3/4	
WALL SLOTS	4.000 PSI	#4 SIEVE	
WALL ENCASEMENT	4.000 PSI	3/4	
COVE	4,000 PSI	3/8	
FOUNDATION & FLOOR	4.000 PSI	1-1/4	
FLOOR PIPE ENCASEMENTS	4,000 PSI	1-1/4	STRUCTURAL
		MIX PROPORTIONS	R
COREWALL SHOTCRETE	4,500 PSI	1:3	
WIRE COVER SHOTCRETE	4,500 PSI	1:3	
COVERCOAT SHOTCRETE	4,500 PSI	1:4	
TEMPORARY OPENING SHOTCRETE	4,500 PSI	1:3	

- CONCRETE: SHALL CONFORM TO ACI 301 & 372R.
- SHOTCRETE: SHALL CONFORM TO ACI 506.
- REINFORCING BARS: SHALL BE ASTM A615, GRADE 60, DEFORMED, UNCOATED.
- REINFORCING MESH: SHALL BE ASTM A1064.
- PRESTRESS WIRE: SHALL BE ASTM A821, MIN. TENSILE STRENGTH = 210 ksi
- STEEL DIAPHRAGM: SHALL BE ASTM A1008, MIN. THICKNESS = 0.017 in
- WALL SLOT PLATE (IF REQUIRED): SHALL BE ASTM A569, 10 GAUGE, LOW CARBON STEEL, NOT PICKLED OR OILED.
- TANK WALL PVC WATERSTOP: SHALL BE 9" RIBBED CENTER BULB WATERSTOP #718 AS MANUFACTURED BY GREENSTREAK OR EQUAL.
- PIPE ENCASEMENT PVC WATERSTOP: SHALL BE 6" FLATSTRIP WATERSTOP #783 AS MANUFACTURED BY GREENSTREAK OR EQUAL.
- DUROMETER PAD: SHALL BE NEOPRENE WITH ASTM D2000 CALLOUT M2 BC 410 A14 B14
 OR NEOPRENE ASTM D2000 CALLOUT M 2 BC 414 A14 B14 C12 E014 E034 F17 OR
 NATURAL RUBBER WITH ASTM D2000 CALLOUT M4 AA 414 A13
- SPONGE FILLER PAD: SHALL BE CLOSED CELL NEOPRENE, CONFORMING TO ASTM D1056, TYPE 2 CLASS A, GRADE 1.
- POLYSULFIDE: SHALL BE PSI-275 BY POLYMERIC SYSTEMS INC., T-2235-M BY POLYSPEC, OR EQUAL.
- NON-SHRINK GROUT: SHALL BE QUICKCRETE 1585-01 GROUT, NON-SHRINK, NON-STAIN, NON-METALLIC, OR EQUAL.
- ADEKA: SHALL BE UNTRASEAL P-201, OR EQUAL.
- EXTERIOR TANK COATING: CAST-IN-PLACE DOME SURFACE SHALL RECEIVE ONE COAT OF TAMOSEAL W/AKKRO-7T, OR EQUAL FOLLOWED BY ONE COAT OF TAMMSCOAT, OR EQUAL. THE EXPOSED TANK WALL SURFACE SHALL RECEIVE TWO COATS OF TAMMSCOAT SMOOTH, OR EQUAL. THE COATING IS MANUFACTURED BY THE EUCLID CHEMICAL COMPANY, OR EQUAL.
- LADDER SAFETY CLIMBING DEVICE SHALL BE S.S. LAD-SAF CABLE SYSTEM AS MANUFACTURED BY DBI-SALA, INC., OR APPROVED EQUAL.

SN CRITERIA:

- CODES USED:
- L DESIGN LOADS
 - ROOF LIVE LOADS: SITE ELEVATION .
 - WIND LOAD: ULTIMATE DESIGN WIND SPEED (Vult) 140 MPH NOMINAL DESIGN WIND SPEED (Vasd) 101 MPH

SEISMIC DESIGN:



- BUILDING CODES: 2015 INTERNATIONAL BUILDING CODE
 - AWWA D110 "STANDARD FOR WIRE AND STRAND-WOUND, CIRCULAR, PRESTRESSED CONCRETE WATER TANKS"
 - ACI 350 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES AND COMMENTARY"
 - ACI 350.03 "SEISMIC DESIGN OF LIQUID-CONTAINING CONCRETE STRUCTURES AND COMMENTARY"

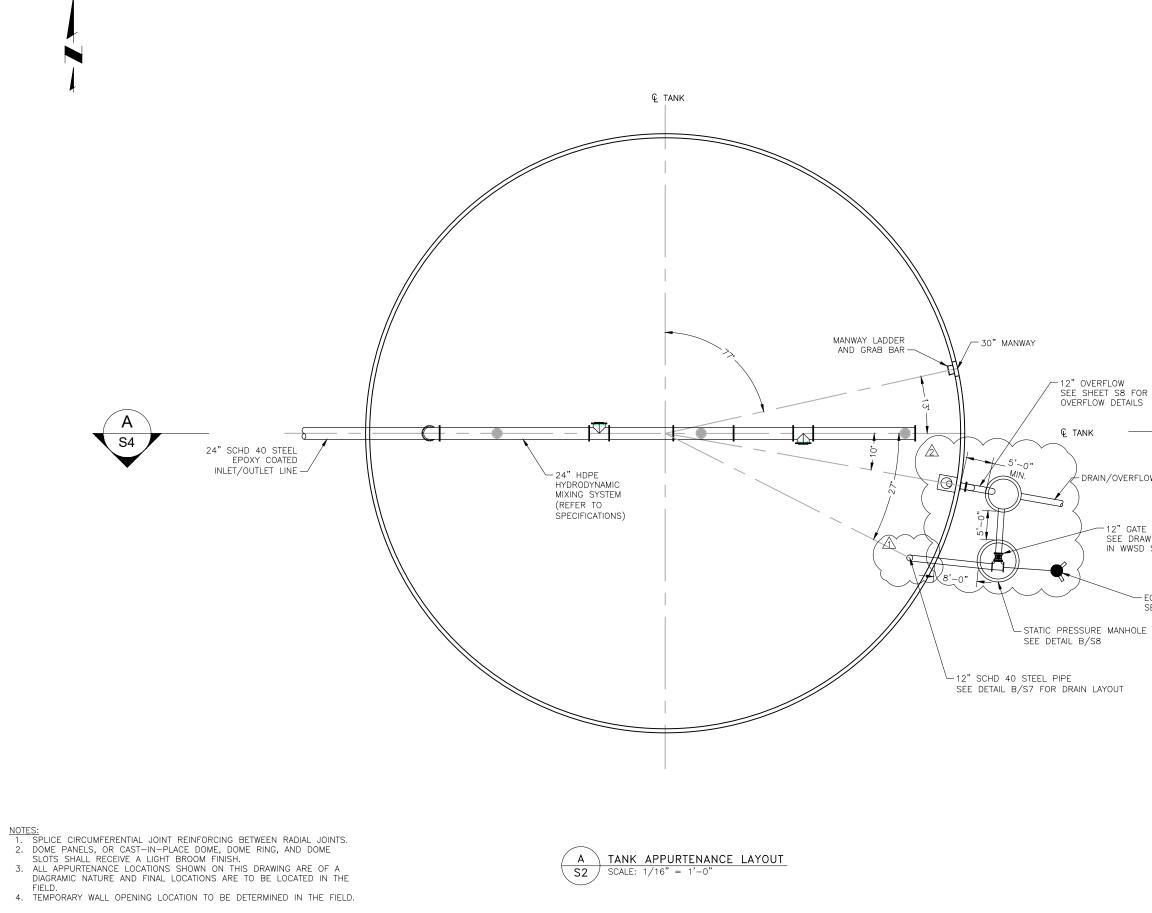
- SEISMIC ZONE
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 (AWWA D110)

 IMPORTANCE FACTOR
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 1.2
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 SITE CLASSIFICATION
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 C (ASCE 7 & D110)

 IMPORTANCE FACTOR
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 1.5 (ASCE 7 & D110)
 RESPONSE MODIFICATION FACTORS: MAPPED SPECTRAL RESPONSE ACCELERATIONS:
- SFISMIC RESPONSE COEFFICIENTS:
 - AWWA D110 Cs = 0.091 FOR IMPULSIVE AWWA D110 Csc = 0.028 FOR CONVECTIVE



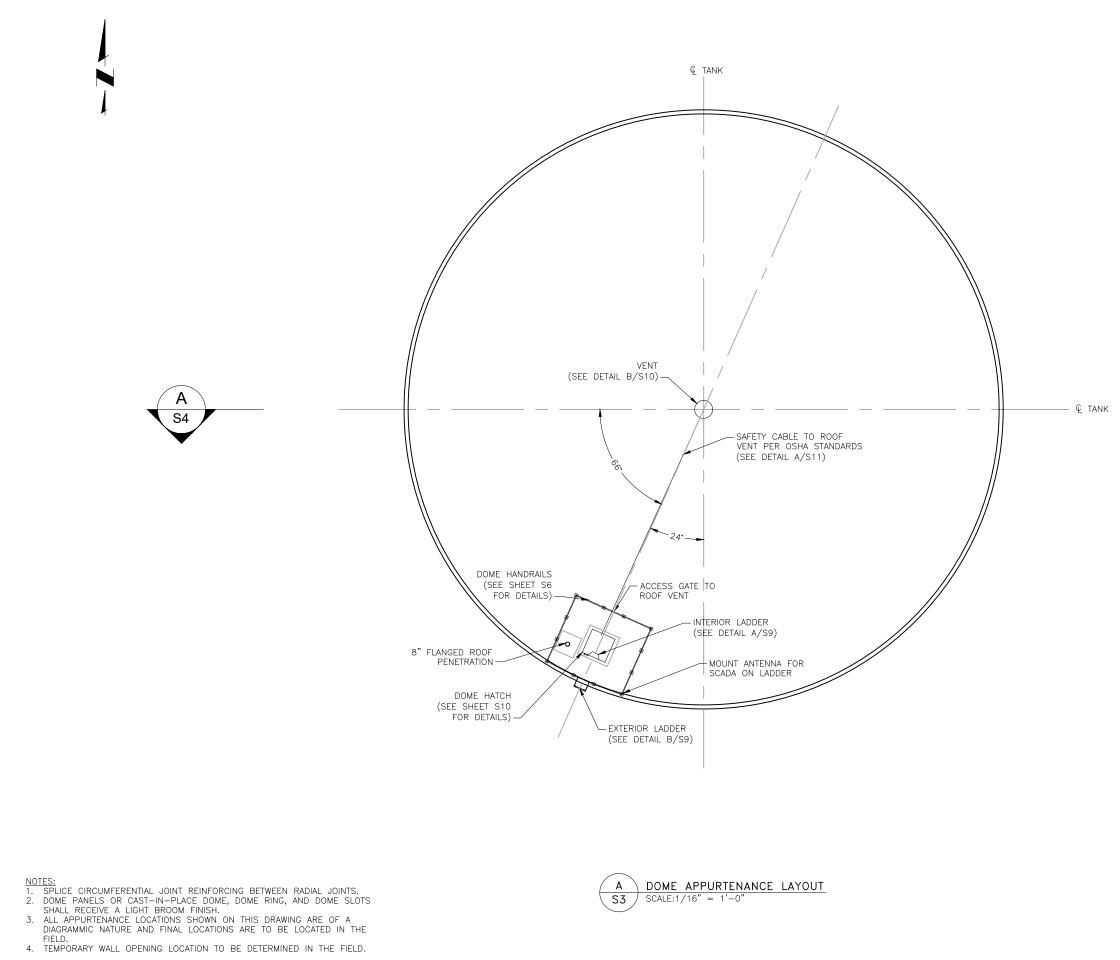
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WIDEFIELD WATER AND SANITATION DISTRICT ROLLING HILLS 2MG POTABLE WATER TANK TANK APPURTENANCE LAYOUT	
VS BY APP. DATE SNW CJD 07/27/21 SNW CJD 07/27/21	
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SHEET 23 OF 32	

-12"OVERFLOW SEE SHEET S8 FOR OVERFLOW DETAILS

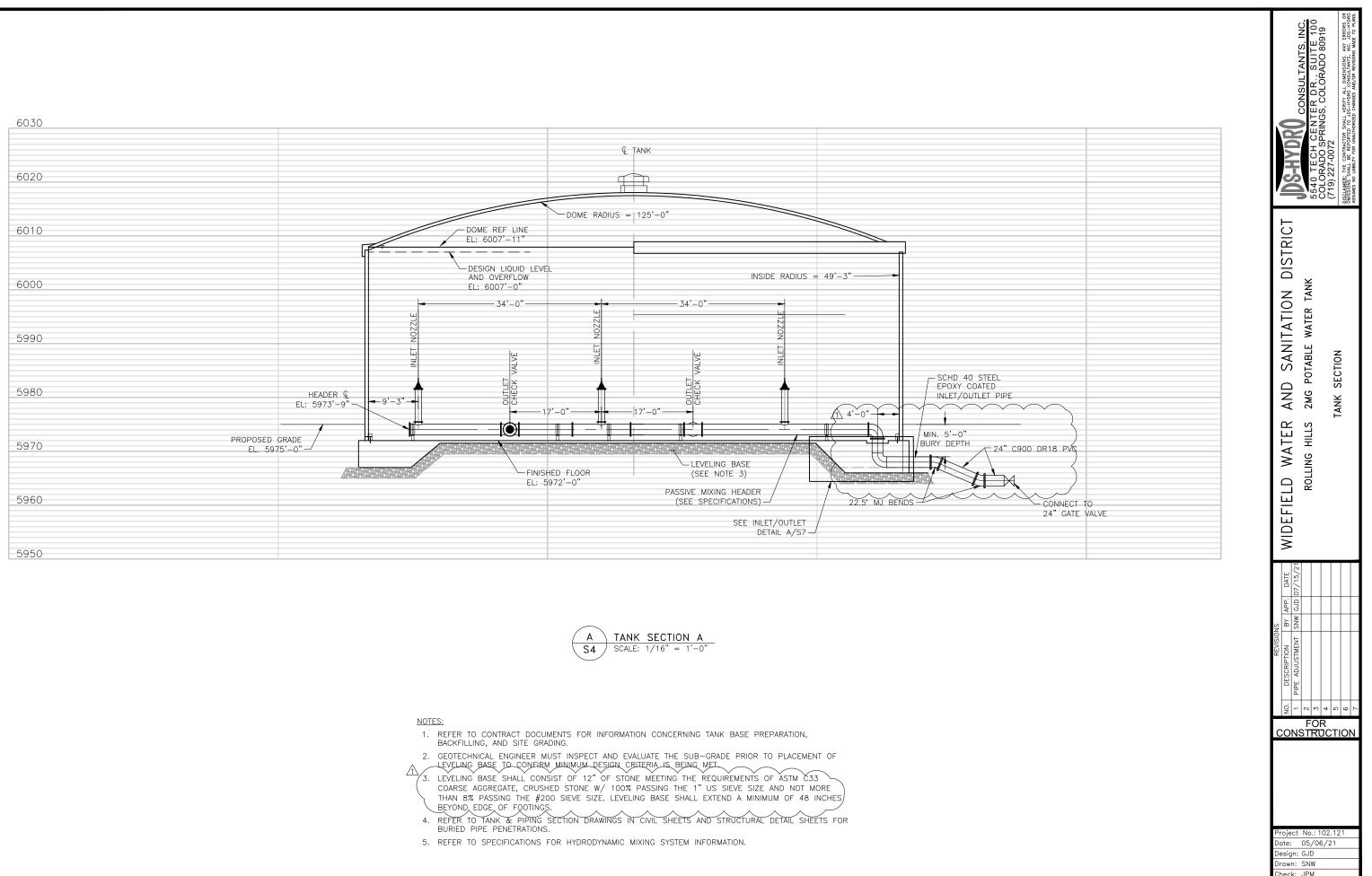
DRAIN/OVERFLOW LINE

–12" GATE VALVE SEE DRAWING W–5 IN WWSD STANDARD DRAWINGS

ECLIPSE 88 SAMPLING STATION SEE SHEET C3 FOR LOCATION



DESTINATE ON SULTANTS, INC. 5540 TECH CENTER DR., SUITE 100 colorado SPRINGS, COLORADO 80919 (719) 227-0072 DESLAMAGE, THE CONFERCING SMALL, VERTICAL, DIMENSIONS, ANY FRONS. ON	ASSUMES NO LABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS
WIDEFIELD WATER AND SANITATION DISTRICT ROLLING HILLS 2MG POTABLE WATER TANK DOME APPURTENANCE LAYOUT	
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SHEET 24 OF 32	





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