CONSTRUCTION PLANS

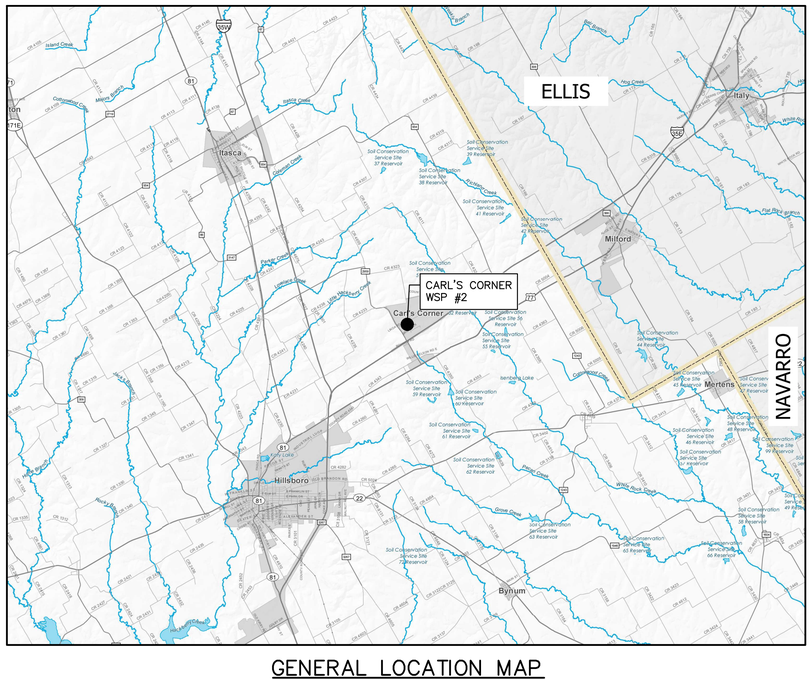
for

WATER SUPPLY PLANT #2

serving the

THE CITY OF CARL'S CORNER

HILL COUNTY, TEXAS



GENERAL LOCATION MAP
NOT TO SCALE

Wasteline Engineering Project No. 21820

June 2026

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Texas Registered Engineering Firm #F-1669

BEFORE YOU DIG CALL @ 1-800-344-8377

June 08, 2026
STATE OF TEXAS
GLENN BREISCH
47346
REGISTERED
PROFESSIONAL ENGINEER

GENERAL UTILITY NOTE

ALL UTILITIES MAY NOT BE SHOWN ON THE PLANS. LOCATION OF EXISTING UTILITIES DEPICTED ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. UTILITIES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION (LATEST–EDITIONS) UNLESS OTHERWISE NOTED.

2. ALL TRENCH BACKFILL UNDER PROPOSED STREETS SHALL BE TYPE "B" OR "C" BACKFILL NOT HAVING A PLASTICITY INDEX GREATER THAN 12. TRENCH BACKFILL UNDER PROPOSED PAVED AREAS SHALL BE PLACED IN 8" UNCOMPACTED LIFTS AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY ASTM D 698 BETWEEN –2 AND +4 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. COMPACTING DENSITY REPORTS SHALL BE REQUIRED FOR EVERY 200 LINEAR FEET OF TRENCH PER LIFT AND AT CROSSINGS DESIGNATED BY ENGINEER OR FIELD SERVICES INSPECTOR

3. CONCRETE COMPRESSIVE STRENGTH REPORTS ARE REQUIRED FOR EVERY 100 CUBIC YARDS OF CONCRETE PLACED.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIALS AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS, AND REQUIREMENTS. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THIS PROJECT.

5. THE CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITY COMPANIES TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSIONS.

6. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, POWER POLES, SIGNS, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THIS PROJECT.

7. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR.

8. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.

9. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO AVOID INTERRUPTION OF WATER, SANITARY SEWER AND PRIVATE UTILITY SERVICES TO SURROUNDING AREAS.

10. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER OR IRRIGATION SYSTEMS AT NO COST TO THE OWNER.

11. THE CONTRACTOR SHALL REMOVE SURPLUS MATERIAL FROM THE PROJECT AREA.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.

13. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP WITH INSPECTION REPORTS, AND THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS.

14. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

15. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS SHALL BE SENT TO THE ENGINEER, CONTRACTOR AND OWNER DIRECTLY FROM THE TESTING AGENCY.

16. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO PROJECT ACCEPTANCE AND THE FINAL CONNECTION OF SERVICES.

17. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.

18. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.

19. HORIZONTAL DIMENSIONS GIVEN ARE TO BACK–OF–CURB, EDGE OF PAVEMENT OR TO PIPE CENTERLINE UNLESS OTHERWISE NOTED ON PLANS.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

21. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER, A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.

22. CONTRACTOR SHALL GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

23. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PROVIDE AN INSTALLATION COMPLETE IN EVERY RESPECT. IF THE CONTRACT DOCUMENTS DO NOT SUFFICIENTLY DESCRIBE THE FINAL PRODUCT, THE CONTRACTOR SHALL BRING SUCH TO THE ATTENTION OF THE ENGINEER. UNLESS OTHERWISE SPECIFIED, IT IS THE CONTRACTOR'S RESPONSIBILITY FOR METHODOLOGY OF CONSTRUCTION TO COMPLETE THE WORK INDICATED OR SPECIFIED. CONTRACTOR IS TO PROVIDE SAME AND PROVIDE MATERIALS AND EQUIPMENT USUALLY FURNISHED WITH SUCH SYSTEMS OR REQUIRED TO COMPLETE THE INSTALLATION, WHETHER SPECIFICALLY MENTIONED OR NOT.

24. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AND REGULATIONS, AS WELL AS ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL HEALTH AND SAFETY STANDARDS, LAWS, OR REGULATIONS. FAILURE TO COMPLY WITH THE REQUIREMENTS SPECIFIED SHALL BE CONSIDERED JUST AND SUFFICIENT CAUSE FOR OWNER TO STOP WORK.

25. CONTRACTOR SHALL COMPLY WITH TEXAS HOUSE BILL 1569, EFFECTIVE SEPTEMBER 1, 1989, TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES AS WELL AS THE U.S. DEPARTMENT OF LABOR, OSHA, "CONT. SAFETY AND HEALTH REGULATIONS", COL 29, SUB PART P, AND AMENDMENTS THERETO.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR REVIEW AT THE PRECONSTRUCTION MEETING. THE TRAFFIC CONTROL PLAN SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS.

2. ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST VERSION.

3. THE CONTRACTOR SHALL COVER EXISTING SIGNS AND OBLITERATE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE INTENT OF TRAFFIC CONTROL PLANS TO AVOID CONFUSION TO THE TRAVELING PUBLIC.

4. ALL TEMPORARY SIGNS, BARRICADES, WARNING LIGHTS AND OTHER MISCELLANEOUS TRAFFIC CONTROL MEASURES SHALL BE REMOVED AND ORIGINAL PERMANENT SIGNS AND PAVEMENT MARKINGS REPLACED AT THE END OF THE CONTRACTOR'S CONSTRUCTION OPERATIONS.

5. CONTRACTOR SHALL COVER STREET EXCAVATIONS WITH ADEQUATE ANCHORED STEEL PLATES DURING NONWORKING HOURS AND OPEN LANES OF TRAFFIC FLOW.

6. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE AT ALL TIMES.

WATER NOTES

1. ALL 4"–12" PIPE MUST BE PVC, AWWA C900, DR–14 (MINIMUM) OR HDPE AWWA C906 DR–11 (MINIMUM). CLASS 200 PSI PIPE, BLUE IN COLOR WITH GASKETS MEETING ASTM F477 AND JOINTS IN COMPLIANCE WITH ASTM D3139.

2. ALL WATER SERVICE PIPE SHALL BE 1" OR 1–1/2" POLYETHYLENE.

3. ALL VALVES 2" THROUGH 12" MUST BE RESILIENT SEAT GATE VALVE, AND MUST MEET ALL AWWA AND FIRE PROTECTION STANDARDS.

4. VALVE BOXES ARE TO BE ADJUSTABLE CAST IRON TWO PIECE WITH LIDS MARKED "WATER".

5. ALL MECHANICAL TYPE FITTINGS MUST BE DUCTILE IRON TYPE THAT MEETS ALL C110/A21–10 ANSI/AWWA STANDARDS. ALL FITTINGS SUBJECT TO THRUST SHALL BE THRUST BLOCKED AS SHOWN ON DETAILS. ADDITIONALLY, FITTINGS SHALL HAVE MECHANICAL JOINT RESTRAINTS, EBAA IRON SERIES 2000 PV OR APPROVED EQUAL

6. ALL DUCTILE IRON FITTINGS MUST BE WRAPPED WITH 2 LAYERS OF 6 MIL PLASTIC WRAP AND SECURELY TAPED.

7. ALL DUCTILE IRON TEES MUST BE ANCHOR TYPE.

8. PRIOR TO BEING PLACED INTO SERVICE, ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NCTCOG STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.

9. 10 TO 12 GAUGE TRACING WIRE (SOLID CORE) WILL BE INSTALLED ON ALL WATER MAINS.

10. TAPPING SLEEVES SHALL BE STAINLESS STEEL OR EPOXY COATED STEEL NUTS AND BOLTS SHALL BE STAINLESS STEEL

11. ALL WATER MAINS 2"–12" DIA. SHALL MAINTAIN A MINIMUM COVER OF 48" UNDER UNPAVED FINISHED GRADE AND 42" UNDER PROPOSED OR EXISTING PAVEMENT.

12. ALIGNMENT CHANGES SHALL BE LIMITED TO LESS THAN 85% OF THE PIPE MANUFACTURER'S ALLOWABLE JOINT DEFLECTION OR SHALL BE MADE USING DUCTILE IRON FITTINGS. ALIGNMENT DEFLECTIONS OTHER THAN AT PIPE JOINTS SHALL NOT BE MADE.

13. EXISTING AND/OR PROPOSED WATER MAINS SHALL BE LOWERED BELOW OR ABOVE PROPOSED SANITARY AND STORM SEWER LINES TO MAINTAIN A MINIMUM OF 2.0 FEET OF VERTICAL SEPARATION. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 9–FEET (OUTSIDE TO OUTSIDE) SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS

14. ALL PIPING BENEATH ANY SLAB SHALL BE DUCTILE IRON PIPE UNLESS SHOWN OTHERWISE.

GAS, ELECTRIC, TELEPHONE NOTES

1. CONTRACTOR SHALL CONTACT NECESSARY FRANCHISE UTILITY COMPANIES PRIOR TO CONSTRUCTION, IN ORDER TO LOCATE AND/OR DISCONNECT EXISTING SERVICES, AND TO COORDINATE NEW SERVICE.

2. ANY FRANCHISE UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE CONCEPTUAL ONLY. THE CONTRACTOR SHALL COORDINATE THE EXACT DESIGN, ALIGNMENT, INSTALLATION REQUIREMENTS AND COST SHARING ARRANGEMENTS WITH THE INDIVIDUAL UTILITY PROVIDERS AND THE PROJECT OWNER. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID, ALL ASSOCIATED COSTS TO INSTALL FRANCHISE UTILITY (GAS, ELEC, PHONE, CABLE) SERVICE TO PROPOSED BUILDINGS. THE CONTRACTOR SHALL ESTABLISH ADEQUATE LEAD TIME IN THEIR CONSTRUCTION SCHEDULE FOR COORDINATING AND PROCURING FRANCHISE UTILITY SERVICES.

WARNING TO CONTRACTOR

CALL 1–800–344–7377 (DIG TESS) OR OTHER UTILITY LOCATION SERVICES 48–HOURS PRIOR TO CONSTRUCTION ACTIVITY. NEITHER THE OWNER NOR THE ENGINEER IS RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS ON ALL DRAWINGS.

NOTES TO CONTRACTOR:

1. PLEASE CONTACT THE CITY'S CHIEF INSPECTOR AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

2. PLEASE NOTE THAT THE STANDARD CONSTRUCTION HOURS ARE FROM 7 AM– 8 PM, MONDAY–FRIDAY AND 9 AM – 8 PM, SATURDAY & SUNDAY. WORK OUTSIDE OF THOSE HOURS MUST HAVE SPECIAL AUTHORITY.

3. A SURVEY OF THE FINISHED PADS WILL BE REQUIRED SHOWING THE ELEVATION IS WITHIN 0.3' OF THE DESIGN FINISH FLOOR PRIOR TO SUBSTANTIAL ACCEPTANCE AND BUILDING PERMIT.

4. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR ALL DRAINAGE SWALES, CHANNELS, DETENTION POND, BORROW DITCHES, ETC.

TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

1. This water distribution system must be constructed in accordance with the current Texas Commission on Environmental Quality (TCEQ) Rules and Regulations for Public Water Systems 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D. When conflicts are noted with local standards, the more stringent requirement shall be applied. At a minimum, construction for public water systems must always meet TCEQ's "Rules and Regulations for Public Water Systems."

2. All newly installed pipes and related products must conform to American National Standards Institute (ANSI)/NSF International Standard 61 and must be certified by an organization accredited by ANSI [§290.44(a)(1)].

3. Plastic pipe for use in public water systems must bear the NSF International Seal of Approval (NSF–pw) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less [§290.44(a)(2)].

4. No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply [§290.44(a)(3)].

5. All water line crossings of wastewater mains shall be perpendicular [§290.44(e)(4)(B)].

6. Water transmission and distribution lines shall be installed in accordance with the manufacturer's instructions. However, the top of the water line must be located below the frost line and in no case shall the top of the water line be less than 24 inches below ground surface [§290.44(a)(4)].

7. The maximum allowable lead content of pipes, pipe fittings, plumbing fittings, and fixtures is 0.25 percent [§290.44(b)].

8. The contractor shall install appropriate air release devices with vent openings to the atmosphere covered with 16–mesh or finer, corrosion resistant screening material or an acceptable equivalent [§290.44(d)(1)].

9. The contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation [§290.44(f)(1)].

10. When waterlines are laid under any flowing or intermittent stream or semi–permanent body of water the waterline shall be installed in a separate watertight pipe encasement. Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested [§290.44(f)(2)].

11. Pursuant to 30 TAC §290.44(a)(5), the hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA formulas for PVC pipe, cast iron and ductile iron pipe. Include the formulas in the notes on the plans.

   o The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C–605 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

   Where:
   - Q = the quantity of makeup water in gallons per hour,
   - L = the length of the pipe section being tested, in feet,
   - D = the nominal diameter of the pipe in inches, and
   - P = the average test pressure during the hydrostatic test in pounds per square inch (psi).

   o The hydrostatic leakage rate for ductile iron (DI) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C–600 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

   Where:
   - L = the quantity of makeup water in gallons per hour,
   - S = the length of the pipe section being tested, in feet,
   - D = the nominal diameter of the pipe in inches, and
   - P = the average test pressure during the hydrostatic test in pounds per square inch (psi).

12. The contractor shall maintain a minimum separation distance in all directions of nine feet between the proposed waterline and wastewater collection facilities including manholes. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet §290.44(e)(1)–(4).

13. The separation distance from a potable waterline to a wastewater main or lateral manhole or cleanout shall be a minimum of nine feet. Where the nine–foot separation distance cannot be achieved, the potable waterline shall be encased in a joint of at least 150 psi pressure class pipe at least 18 feet long and two nominal sizes larger than the new conveyance. The space around the carrier pipe shall be supported at five–foot intervals with spacers or be filled to the springline with washed sand. The encasement pipe shall be centered on the crossing and both ends sealed with cement grout or manufactured sealant [§290.44(e)(5)].

14. Fire hydrants shall not be installed within nine feet vertically or horizontally of any wastewater line, wastewater lateral, or wastewater service line regardless of construction [§290.44(e)(6)].

15. Suction mains to pumping equipment shall not cross wastewater mains, wastewater laterals, or wastewater service lines. Raw water supply lines shall not be installed within five feet of any tile or concrete wastewater main, wastewater lateral, or wastewater service line [§290.44(e)(7)].

16. Waterlines shall not be installed closer than ten feet to septic tank drainfields [§290.44(e)(8)].

17. The contractor shall disinfect the new waterlines in accordance with AWWA Standard C–651–14 or most recent, then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer [§290.44(f)(3)].

18. Dechlorination of disinfecting water shall be in strict accordance with current AWWA Standard C655–09 or most recent.

June 08, 2026
STATE OF TEXAS
GLENN BREISCH
47346
REGISTERED PROFESSIONAL ENGINEER

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY	REVISION

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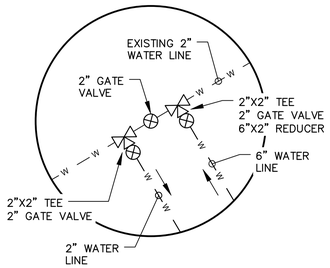
WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

GENERAL CONSTRUCTION NOTES

PROJECT NO. 21820

DRAWING NO. - of 9



DETAIL 'A'
NOT TO SCALE

NOTES:
1. ALL PIPE LENGTHS ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR TO CONFIRM ALL DIMENSIONS IN THE FIELD BEFORE CONSTRUCTION BEGINS.

LEGEND

Over Head Electric = —— —— —— ——

Chain-Link Fence = — — — — — — —

Barbed Wire = ——·——·——·——

Water Meter = WM

Electric Meter = EM

Power Pole =

Guy Anchor =

TBM 1/2" IR red cap "Control Point" =

NOTES:

1) ELEVATIONS DERIVED BY THE USE OF GPS EQUIPMENT NAVD88 - CONTROL POINTS/TEMPORARY BENCHMARKS AS SHOWN.

2) NO ATTEMPT WAS MADE TO LOCATE UNDERGROUND PIPELINES OR UTILITIES. THERE MAY BE UNDERGROUND UTILITY FEATURES NOT SHOWN ON THIS SURVEY.

3) THIS IS NOT A BOUNDARY SURVEY AND SHALL NOT BE USED AS SUCH.

4) THIS SURVEY IS BEING PROVIDED AND CERTIFIED FOR USE BY THE CURRENT PARTIES ONLY. USE OF THIS SURVEY FOR OTHER PURPOSES OR BY OTHER PARTIES SHALL BE AT THEIR OWN RISK.

5) TOPOGRAPHIC SURVEY FIELD WORK PERFORMED JUNE 10, 2025.

6) THIS TOPOGRAPHIC SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. THERE MAY BE EASEMENTS OR OTHER MATTERS OF RECORD NOT SHOWN. NO RECORD SEARCH OR ABSTRACTING WAS PERFORMED BY THE SURVEYOR IN THE COMPLETION OF THIS TOPOGRAPHIC SURVEY.

LINDA DRIVE

CONNECT TO EXISTING WATER DISTRIBUTION SYSTEM.
2"X2" TEE
2" GATE VALVE
(GATE VALVE TO REMAIN CLOSED UNTIL THE WATER WELL IS CONSTRUCTED.)
N-6716895.88
E-2415703.12

REFER TO THIS SHEET FOR DETAIL 'A'.

EXISTING 2" WATER DISTRIBUTION SYSTEM. CONTRACTOR TO FIELD VERIFY WATER LINE LOCATION.

CONNECT TO EXISTING WATER DISTRIBUTION SYSTEM.
2"X2" TEE
2" GATE VALVE
6"X2" REDUCER
(GATE VALVE TO REMAIN CLOSED UNTIL THE WATER WELL IS CONSTRUCTED.)
N-6716897.66
E-2415706.13

TBM CP 6603: 1/2" IR red cap
"Sandy Creek Surveying Control Point"
Elevation: 836.41'

PROPOSED CHAIN LINK FENCE, REFER TO SHEETS 7 & 9 FOR DETAILS.

6" WATER LINE TO DISTRIBUTION SYSTEM

2" WATER LINE FROM DISTRIBUTION SYSTEM

FLOW METER BOX

EXISTING PRESSURE TANK

EXISTING METAL BUILDING FF.=837.04'

EXISTING GENERATOR

6" WATER LINE

EXISTING 23'X16' GROUND STORAGE TANK (50,000 GALLON CAPACITY)

EXISTING POWER POLE

3"X3" TEE
3" GATE VALVE
3"X2" REDUCER

3" WATER WELL LINE

GROUND STORAGE TANK (160,000 GALLON CAPACITY), REFER TO SHEET 6 FOR DETAILS.
N-6716661.39
E-2415902.86

TBM CP 6602: 1/2" IR red cap
"Sandy Creek Surveying Control Point"
Elevation: 834.92'

TBM CP 6601: 1/2" IR red cap
"Sandy Creek Surveying Control Point"
Elevation: 836.09'

J.J. LEE SURVEY
A-543

LEGEND
800 EXISTING CONTOURS
800 PROPOSED CONTOURS

0 20 40 60
GRAPHIC SCALE IN FEET

BEFORE YOU DIG CALL @ 1-800-344-8377

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DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

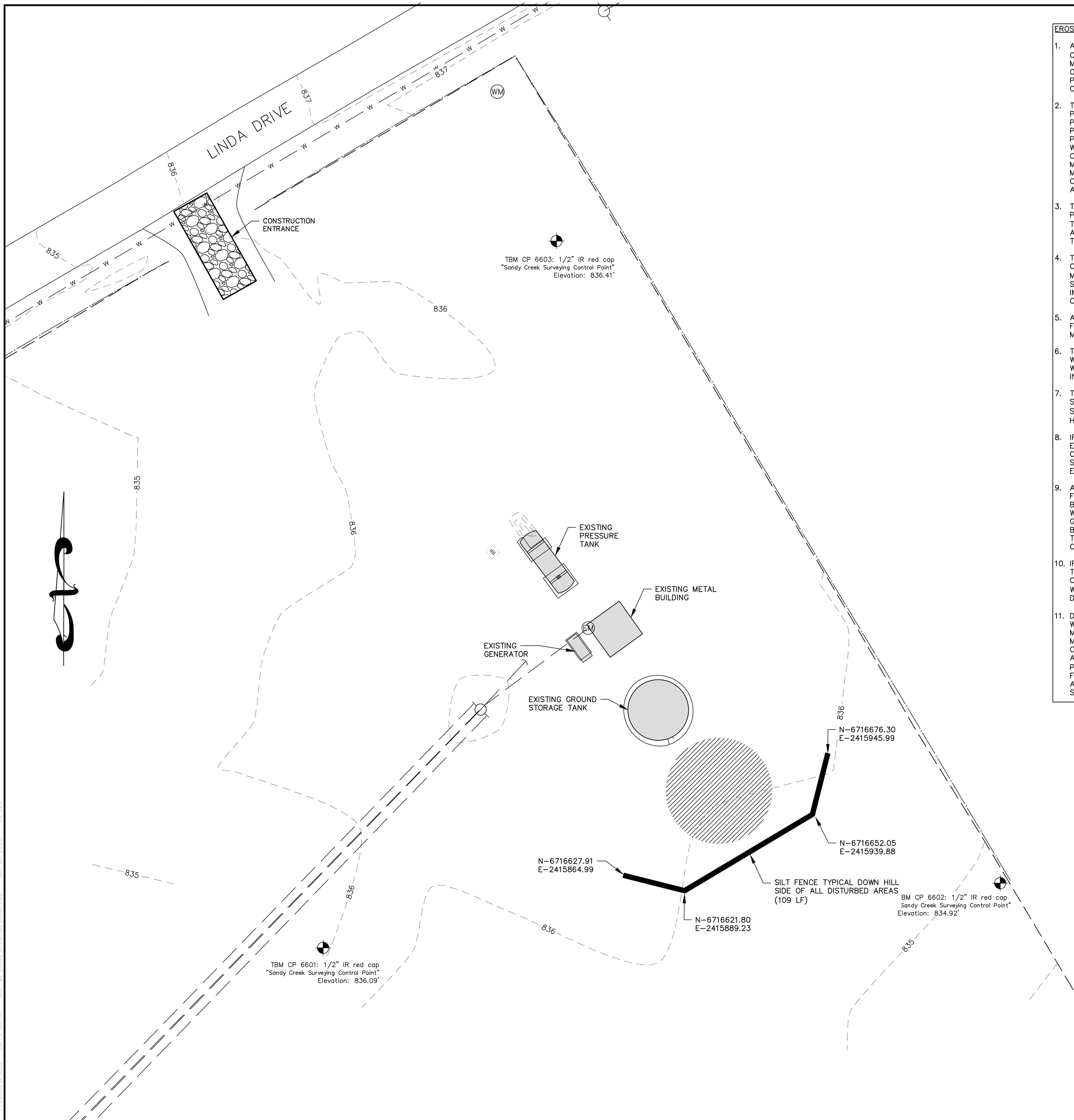
No.	DATE	BY	REVISION

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

SITE PLAN

PROJECT NO. 21820

DRAWING NO. 1 of 9



EROSION AND POLLUTION CONTROL NOTES:

1. ALL CONTRACTORS SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) MANUAL FOR BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AS IT RELATES TO PREVENTING POLLUTANTS IN STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITIES.

2. THE CONTRACTOR SHALL INSTALL EROSION AND POLLUTION CONTROL MEASURES AS INDICATED ON THE PLANS AND AS FIELD CONDITIONS WARRANT TO PREVENT OFFSITE MIGRATION OF SOILS OR OTHER POLLUTANTS BY VEHICULAR TRACKING OR IN STORM WATER RUNOFF. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, INSTALLATION OF CONTROL MEASURES, REPAIRS OR MODIFICATIONS TO THE MEASURES WILL BE MADE BY THE CONTRACTOR IF THE CONTROL MEASURES PROVE INEFFECTIVE OR IF ADDITIONAL CONTROL MEASURES ARE NECESSARY.

3. THE CONTRACTOR SHALL CAUSE AN SWPPP TO BE PREPARED, SUBMITTED TO, AND APPROVED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). A COPY OF THE APPROVED PLAN SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER.

4. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION EXIT AND SHALL TAKE APPROPRIATE MEASURES TO PREVENT TRACKING OF MUD AND/OR SOILS TO OFFSITE PAVEMENT. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY OFFSITE TRACKING THAT OCCURS.

5. ALL STOCKPILED SOILS WILL BE SURROUNDED BY A SILT FENCE, SEDIMENT CONTROL SWALE OR EQUIVALENT MEASURE TO PROPERLY CONTROL SEDIMENT RUNOFF.

6. THE CONTRACTOR SHALL DESIGNATE A CONCRETE TRUCK WASHOUT AREA. WASTE CONCRETE AND ASSOCIATED WATER AND MATERIAL WILL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH THE APPLICABLE REGULATIONS.

7. THE CONTRACTOR SHALL CONSTRUCT A BERM OR OTHER SPILL PROTECTION MEASURE FOR ANY TEMPORARY FUEL STORAGE TANK(S) ON SITE TO CONTAIN AT LEAST ONE HALF (1/2) OF THE CAPACITY OF EACH TANK.

8. IF SUMP PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, THE DISCHARGE SHALL BE FILTERED OR DISCHARGED TO A SETTLING BASIN TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER ENTERS A STORM DRAIN OR LEAVES THE SITE.

9. AT A MINIMUM, PERIMETER CONTROLS SUCH AS SILT FENCE SHALL BE INSTALLED AT ALL DOWN SLOPE BOUNDARIES OF DISTURBED AREAS AND AS WARRANTED WHERE PAVEMENT REMOVAL, UTILITY CONSTRUCTION, GRADING OR OTHER CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED. THE CONTRACTOR SHALL AT ALL TIMES TAKE SUCH MEASURES AS NECESSARY TO PREVENT OFFSITE MIGRATION OF SEDIMENT AND DEBRIS.

10. IF DISCHARGE OF SOIL OR OTHER POLLUTANTS OCCURS, THE CONTROL MEASURES SHALL BE EVALUATED AND CHANGES OR ADDITIONAL MEASURES IMPLEMENTED WITHIN SEVEN (7) DAYS TO PREVENT FUTURE DISCHARGES.

11. DAMAGE TO ADJACENT PROPERTY AND/OR TO RECEIVING WATER CAUSED BY IMPROPERLY INSTALLED OR POORLY MAINTAINED EROSION AND POLLUTION CONTROL MEASURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY INCLUDES REMOVAL AND DISPOSAL OF ANY SILTATION, DEBRIS OR OTHER POLLUTANTS CAUSED BY HIS/HER OPERATIONS AND/OR FAILURE OF THE CONTROL MEASURES. FAILURE TO ADDRESS THE CAUSES OF DAMAGES MAY RESULT IN A STOP WORK ORDER.

12. ALL EROSION CONTROL DEVICES SHOWN ON THE PLANS RELEASED FOR CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE PLAN SEQUENCING PRIOR TO COMMENCING ANY EARTH DISTURBING ACTIVITIES. FAILURE TO INSTALL THE EROSION CONTROL DEVICES BEFORE STARTING THE EARTH DISTURBING ACTIVITIES MAY RESULT IN SANCTIONS INCLUDING, BUT NOT LIMITED TO, WITHHOLDING OF RELEASE OF CONSTRUCTION PERMITS, INSPECTIONS, SUSPENSION OF CONSTRUCTION ACTIVITIES, OR CITATIONS. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH THE PROJECT PLANS, CITY STORM WATER ORDINANCE AND/OR SWPPP AND GENERAL PERMIT.

13. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT IN ACCORDANCE WITH THE SWPPP, AND BEFORE IT REACHES A DEPTH OF SIX (6) INCHES OR IMPAIRS THE EFFECTIVENESS OF THE CONTROL MEASURE.

14. ALL EROSION, SEDIMENT, AND WATER POLLUTION CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. THE CONTRACTOR AND OWNER WILL INSPECT THE ENTIRE PROJECT TO DETERMINE THE CONDITION OF THE CONTROL MEASURES USING ONE OF THE FOLLOWING INSPECTION SCHEDULES: (1) A RAIN GAUGE PROVIDED BY THE CONTRACTOR WILL BE LOCATED AT THE PROJECT SITE. INSPECTION WILL OCCUR EVERY FOURTEEN (14) CALENDAR DAYS, AND ALSO WITHIN 24-HOURS OF A RAINFALL EVENT OF 0.5-IN. OR MORE AS MEASURED BY THE PROJECT RAIN GAUGE. (2) INSPECTION WILL OCCUR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS ON A SPECIFICALLY DEFINED DAY, REGARDLESS OF WHETHER OR NOT THERE HAS BEEN A RAINFALL EVENT SINCE THE PREVIOUS INSPECTION. A WRITTEN INSPECTION REPORT, SIGNED BY THE PERSON MAKING THE INSPECTION, WILL BE FILED WITH ONSITE POLLUTION CONTROL PLAN AND A COPY OF THE REPORT SENT TO THE CITY FOR THEIR RECORDS. THIS INSPECTION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR INSPECTION AND MAINTENANCE OF THE CONTROL MEASURES. FAILURE TO FILE REPORTS MAY RESULT IN A STOP WORK ORDER.

15. THE CONTRACTOR SHALL STABILIZE, WITH SOME FORM OF GROUND COVER, ANY AREA WHERE CONSTRUCTION ACTIVITY IS TO BE CEASED (TEMPORARILY OR PERMANENTLY) FOR MORE THAN TWENTY-ONE (21) DAYS.

16. AT THE CONCLUSION OF THE PROJECT, ALL CHANNELS, DRAINAGE WAY AND BORROW DITCHES IN THE WORK ZONE SHALL BE CLEARED OF ANY SEDIMENT AND DEBRIS GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF THE EROSION AND POLLUTION CONTROL MEASURES.

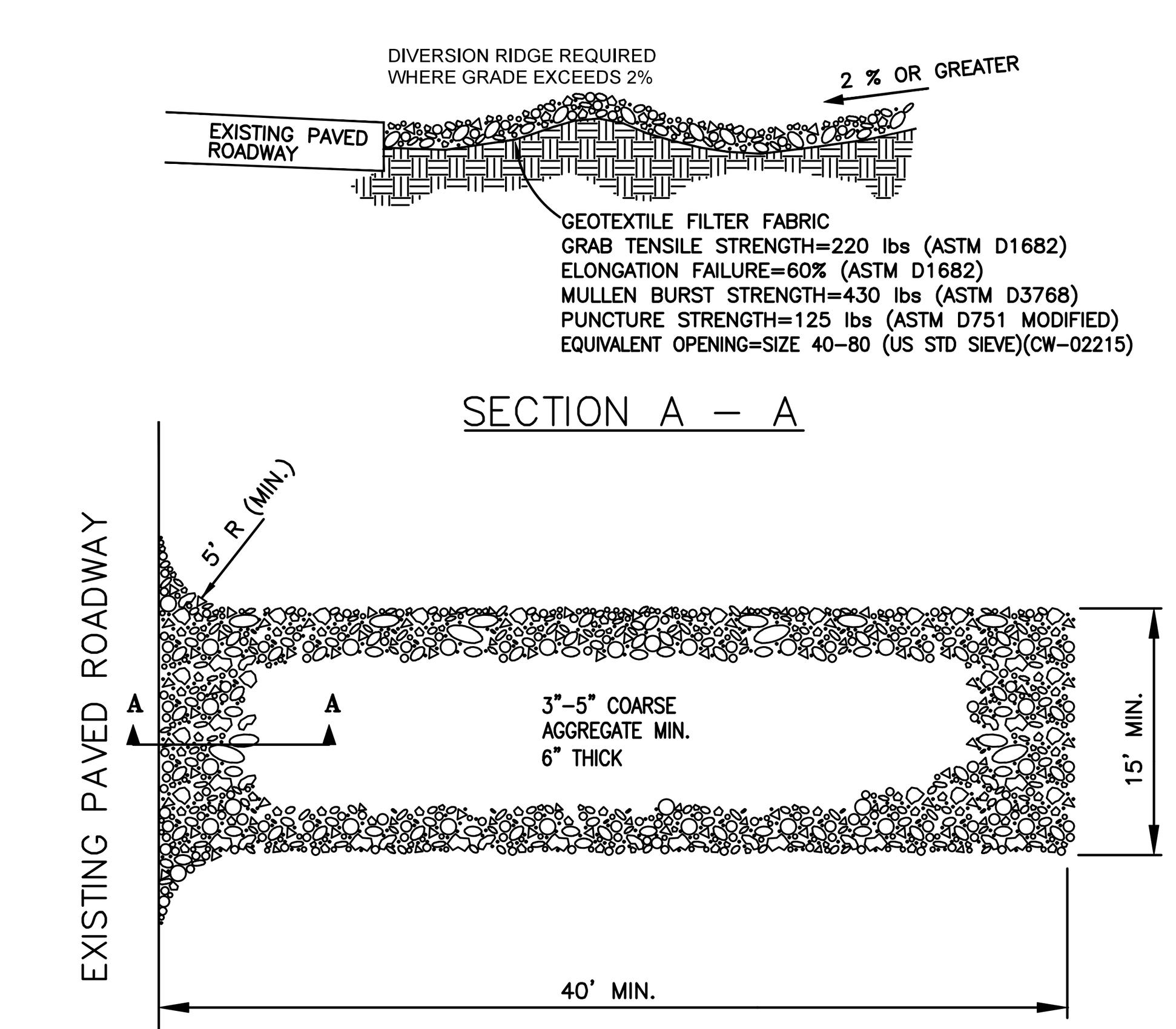
17. REVEGETATION OF ALL DISTURBED SOIL SHALL BE INITIATED WITHIN TWENTY-ONE (21) DAYS OF FINAL CONSTRUCTION OPERATIONS.

18. IN ADDITION TO THE EROSION CONTROL MEASURES SHOWN, THE CONTRACTOR SHALL USE APPROPRIATE MEASURES AS NECESSARY TO COMPLY WITH SECTION 1.04 THIS SHEET.

19. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

20. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

21. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



CONSTRUCTION ENTRANCE

NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.

2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.

3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.

4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

0 20 40 60

GRAPHIC SCALE IN FEET

WASTELINE ENGINEERING, INC.
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www.wasteline-eng.com
Texas Registered Engineering Firm #F-1669

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY	REVISION

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

EROSION CONTROL PLAN

PROJECT NO. 21820

DRAWING NO. 2 of 9

EROSION AND POLLUTION CONTROL NOTES:

1. ALL CONTRACTORS SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) MANUAL FOR BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AS IT RELATES TO PREVENTING POLLUTANTS IN STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL INSTALL EROSION AND POLLUTION CONTROL MEASURES AS INDICATED ON THE PLANS AND AS FIELD CONDITIONS WARRANT TO PREVENT OFFSITE MIGRATION OF SOILS OR OTHER POLLUTANTS BY VEHICULAR TRACKING OR IN STORM WATER RUNOFF. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, INSTALLATION OF CONTROL MEASURES, REPAIRS OR MODIFICATIONS TO THE MEASURES WILL BE MADE BY THE CONTRACTOR IF THE CONTROL MEASURES PROVE INEFFECTIVE OR IF ADDITIONAL CONTROL MEASURES ARE NECESSARY.
3. THE CONTRACTOR SHALL CAUSE AN SWPPP TO BE PREPARED, SUBMITTED TO, AND APPROVED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). A COPY OF THE APPROVED PLAN SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER.
4. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION EXIT AND SHALL TAKE APPROPRIATE MEASURES TO PREVENT TRACKING OF MUD AND/OR SOILS TO OFFSITE PAVEMENT. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY OFFSITE TRACKING THAT OCCURS.
5. ALL STOCKPILED SOILS WILL BE SURROUNDED BY A SILT FENCE, SEDIMENT CONTROL SWALE OR EQUIVALENT MEASURE TO PROPERLY CONTROL SEDIMENT RUNOFF.
6. THE CONTRACTOR SHALL DESIGNATE A CONCRETE TRUCK WASHOUT AREA. WASTE CONCRETE AND ASSOCIATED WATER AND MATERIAL WILL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH THE APPLICABLE REGULATIONS.
7. THE CONTRACTOR SHALL CONSTRUCT A BERM OR OTHER SPILL PROTECTION MEASURE FOR ANY TEMPORARY FUEL STORAGE TANK(S) ON SITE TO CONTAIN AT LEAST ONE HALF (1/2) OF THE CAPACITY OF EACH TANK.
8. IF SUMP PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, THE DISCHARGE SHALL BE FILTERED OR DISCHARGED TO A SETTLING BASIN TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER ENTERS A STORM DRAIN OR LEAVES THE SITE.
9. AT A MINIMUM, PERIMETER CONTROLS SUCH AS SILT FENCE SHALL BE INSTALLED AT ALL DOWN SLOPE BOUNDARIES OF DISTURBED AREAS AND AS WARRANTED WHERE PAVEMENT REMOVAL, UTILITY CONSTRUCTION, GRADING OR OTHER CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED. THE CONTRACTOR SHALL AT ALL TIMES TAKE SUCH MEASURES AS NECESSARY TO PREVENT OFFSITE MIGRATION OF SEDIMENT AND DEBRIS.
10. IF DISCHARGE OF SOIL OR OTHER POLLUTANTS OCCURS, THE CONTROL MEASURES SHALL BE EVALUATED AND CHANGES OR ADDITIONAL MEASURES IMPLEMENTED WITHIN SEVEN (7) DAYS TO PREVENT FUTURE DISCHARGES.
11. DAMAGE TO ADJACENT PROPERTY AND/OR TO RECEIVING WATER CAUSED BY IMPROPERLY INSTALLED OR POORLY MAINTAINED EROSION AND POLLUTION CONTROL MEASURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY INCLUDES REMOVAL AND DISPOSAL OF ANY SILTATION, DEBRIS OR OTHER POLLUTANTS CAUSED BY HIS/HER OPERATIONS AND/OR FAILURE OF THE CONTROL MEASURES. FAILURE TO ADDRESS THE CAUSES OF DAMAGES MAY RESULT IN A STOP WORK ORDER.
12. ALL EROSION CONTROL DEVICES SHOWN ON THE PLANS RELEASED FOR CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE PLAN SEQUENCING PRIOR TO COMMENCING ANY EARTH DISTURBING ACTIVITIES. FAILURE TO INSTALL THE EROSION CONTROL DEVICES BEFORE STARTING THE EARTH DISTURBING ACTIVITIES MAY RESULT IN SANCTIONS INCLUDING, BUT NOT LIMITED TO, WITHHOLDING OF RELEASE OF CONSTRUCTION PERMITS, INSPECTIONS, SUSPENSION OF CONSTRUCTION ACTIVITIES, OR CITATIONS. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH THE PROJECT PLANS, CITY STORM WATER ORDINANCE AND/OR SWPPP AND GENERAL PERMIT.
13. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT IN ACCORDANCE WITH THE SWPPP, AND BEFORE IT REACHES A DEPTH OF SIX (6) INCHES OR IMPAIRS THE EFFECTIVENESS OF THE CONTROL MEASURE.
14. ALL EROSION, SEDIMENT, AND WATER POLLUTION CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. THE CONTRACTOR AND OWNER WILL INSPECT THE ENTIRE PROJECT TO DETERMINE THE CONDITION OF THE CONTROL MEASURES USING ONE OF THE FOLLOWING INSPECTION SCHEDULES: (1) A RAIN GAUGE PROVIDED BY THE CONTRACTOR WILL BE LOCATED AT THE PROJECT SITE. INSPECTION WILL OCCUR EVERY FOURTEEN (14) CALENDAR DAYS, AND ALSO WITHIN 24–HOURS OF A RAINFALL EVENT OF 0.5–IN. OR MORE AS MEASURED BY THE PROJECT RAIN GAUGE. (2) INSPECTION WILL OCCUR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS ON A SPECIFICALLY DEFINED DAY, REGARDLESS OF WHETHER OR NOT THERE HAS BEEN A RAINFALL EVENT SINCE THE PREVIOUS INSPECTION. A WRITTEN INSPECTION REPORT, SIGNED BY THE PERSON MAKING THE INSPECTION, WILL BE FILED WITH ONSITE POLLUTION CONTROL PLAN AND A COPY OF THE REPORT SENT TO THE CITY FOR THEIR RECORDS. THIS INSPECTION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR INSPECTION AND MAINTENANCE OF THE CONTROL MEASURES. FAILURE TO FILE REPORTS MAY RESULT IN A STOP WORK ORDER.
15. THE CONTRACTOR SHALL STABILIZE, WITH SOME FORM OF GROUND COVER, ANY AREA WHERE CONSTRUCTION ACTIVITY IS TO BE CEASED (TEMPORARILY OR PERMANENTLY) FOR MORE THAN TWENTY–ONE (21) DAYS.
16. AT THE CONCLUSION OF THE PROJECT, ALL CHANNELS, DRAINAGE WAY AND BORROW DITCHES IN THE WORK ZONE SHALL BE CLEARED OF ANY SEDIMENT AND DEBRIS GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF THE EROSION AND POLLUTION CONTROL MEASURES.
17. REVEGETATION OF ALL DISTURBED SOIL SHALL BE INITIATED WITHIN TWENTY–ONE (21) DAYS OF FINAL CONSTRUCTION OPERATIONS.

GENERAL NOTES:

1. IN ADDITION TO THE EROSION CONTROL MEASURES SHOWN, THE CONTRACTOR SHALL USE APPROPRIATE MEASURES AS NECESSARY TO COMPLY WITH SECTION 1.04.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.
4. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
5. SILT FENCE SHALL FOLLOW EXTERIOR LOT LINES, WHEN POSSIBLE.

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY	REVISION

WASTELINE ENGINEERING, INC.
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Texas Registered Engineering Firm #F-1669

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

EROSION CONTROL NOTES

PROJECT NO. 21820

DRAWING NO. 3 of 9

SILT FENCE GENERAL NOTES

(1) STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT, AND HAVE SAFETY CAPS INSTALLED.

(2) THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

(3) THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

(4) SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

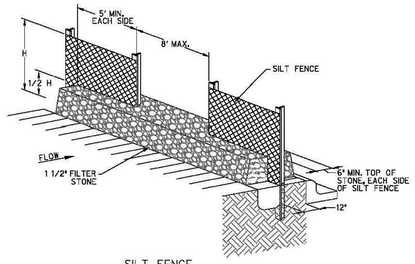
(5) INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH ½" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

(6) SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED, PER NOTE 1 ON THE EROSION CONTROL DETAILS (SHEET 2 OF 2), SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

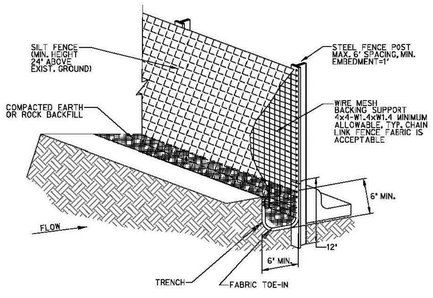
(7) ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

(8) CONTRACTOR IS FULLY RESPONSIBLE FOR ALL SWPPP, PERMITTING, APPROVAL, INSPECTIONS, MAINTENANCE, AND REMOVAL.

NOTE:
STONE OVERFLOW STRUCTURES OF OTHER OUTLET CONTROL DEVICES SHALL BE INSTALLED AT ALL LOW POINTS ALONG THE FENCE OR EVERY 300 FEET IF THERE IS NO APPARENT LOW POINT



SILT FENCE
STONE OVERFLOW STRUCTURE
N.T.S.



ISOMETRIC PLAN VIEW
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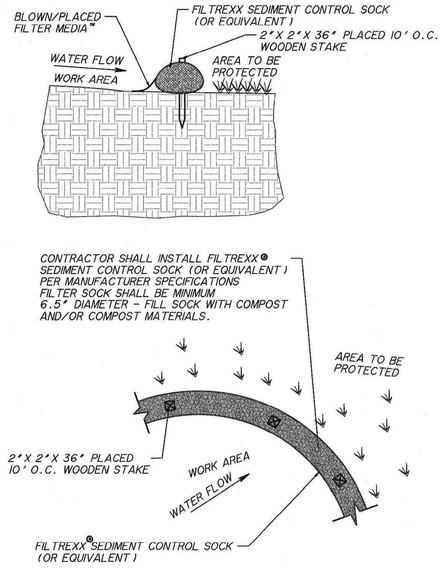
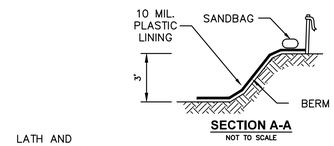


SEDIMENT CONTROL FILTER SOCK



SECTION A-A
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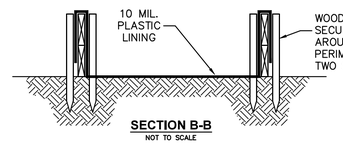

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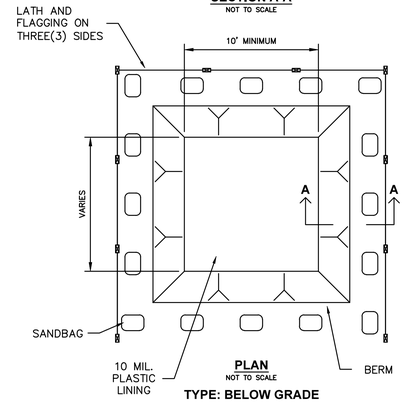
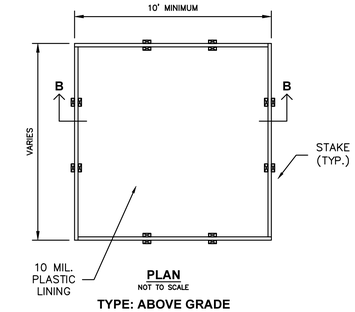


PLAN
NOT TO SCALE

TYPE: BELOW GRADE

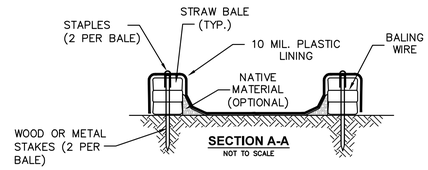


PLAN
NOT TO SCALE

TYPE: ABOVE GRADE WITH WOOD PLANKS

NOTES
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN (SEE CONCRETE WASHOUT DETAIL #1) SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL #2
BELOW GRADE AND ABOVE GRADE WITH WOOD PLANK



SECTION A-A
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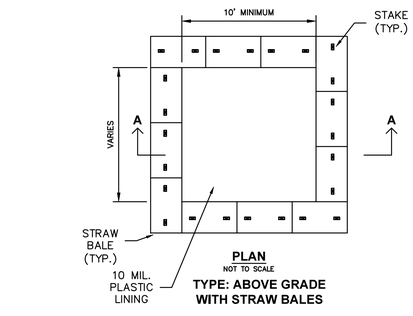
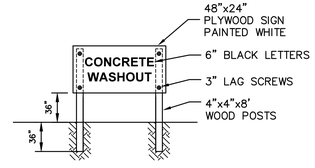
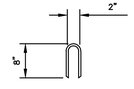


PLAN
NOT TO SCALE

TYPE: ABOVE GRADE WITH STRAW BALES



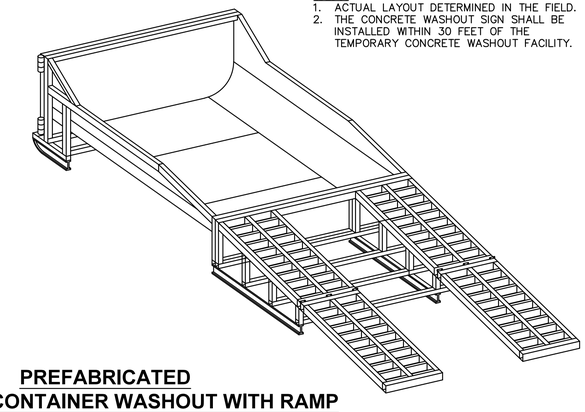
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



STAPLE DETAIL

NOTES
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL #1
ABOVE GRADE STRAW BALE



PREFABRICATED
CONCRETE CONTAINER WASHOUT WITH RAMP

WASTELINE ENGINEERING, INC.
Texas Registered Engineering Firm #F-1669
5064 E I-20 Service Rd South
Willow Park, TX 76087
(817) 441-1300
www.wasteline-eng.com

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

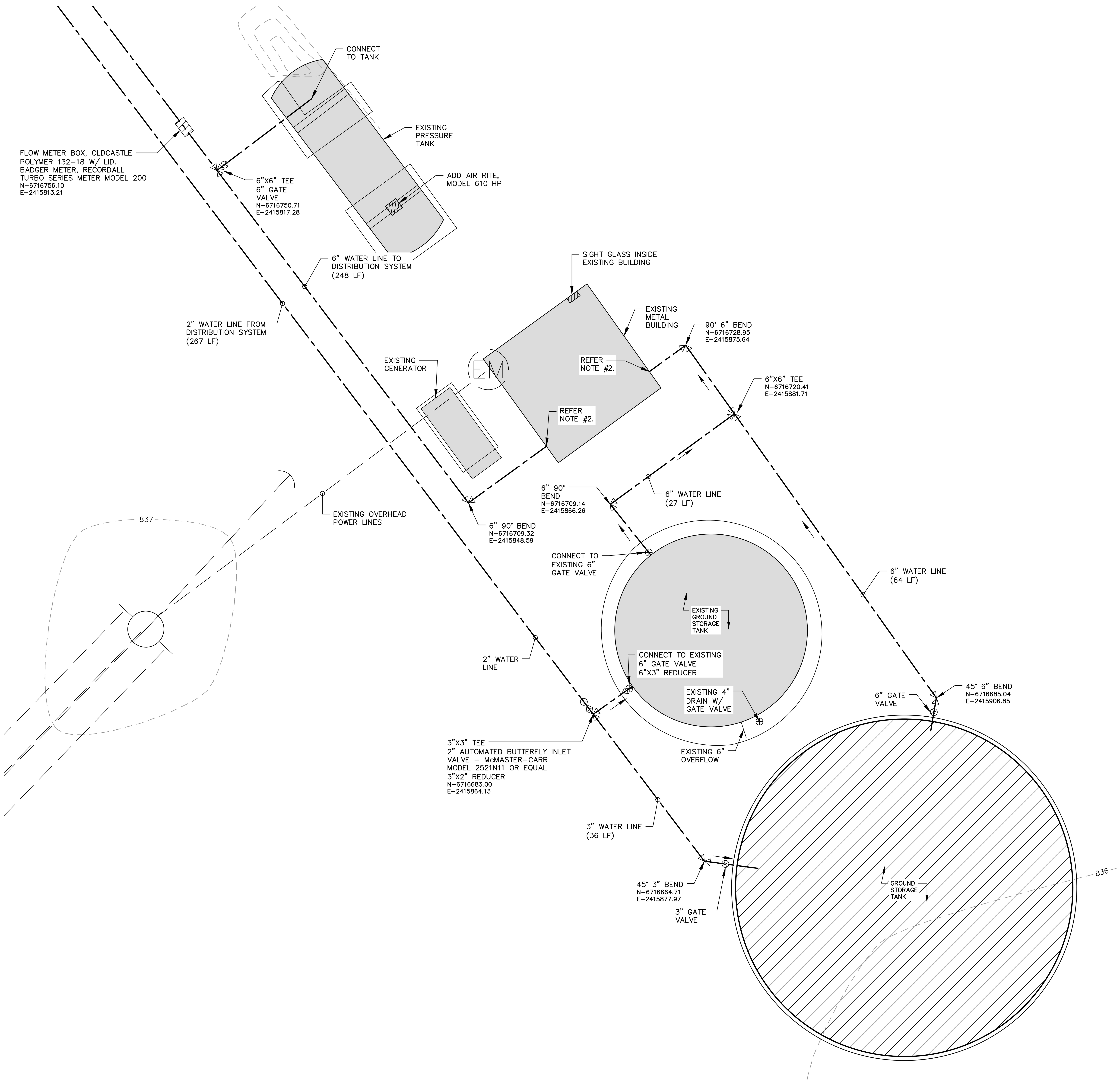
No.	DATE	BY	REVISION

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

EROSION CONTROL DETAILS

PROJECT NO. 21820

DRAWING NO. 4 of 9

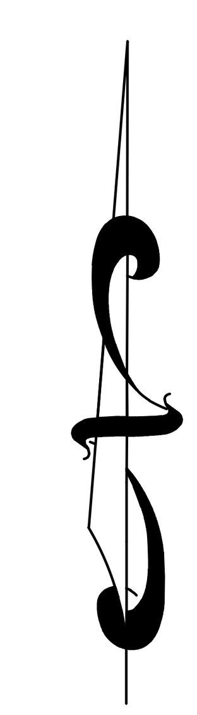


NOTES:

1. ALL PIPE LENGTHS ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR TO CONFIRM ALL DIMENSIONS IN THE FIELD BEFORE CONSTRUCTION BEGINS.
2. CONTRACTOR TO VERIFY LOCATION OF PIPE OPENING AT BUILDING, BOTH FOR INLET AND OUTLET.
3. CONTRACTOR TO VERIFY LOCATION OF NEW SITE GLASS, PUMPS ARE NOT WIRED IN OR PLUMBED AT INLET OR OUTLET.
4. CONTRACTOR TO USE EITHER PVC OR HDPE FOR YARD PIPING MATERIAL. REFER TO SHEET 'GENERAL CONSTRUCTION NOTES' FOR WATER NOTES.

LEGEND

— 800 —	EXISTING CONTOURS
——800——	PROPOSED CONTOURS



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BEFORE YOU DIG Texas811.com
BEFORE YOU DIG CALL @ 1-800-344-8377

June 08 2026
STATE OF TEXAS
GLENN BREISCH
47346
REGISTERED PROFESSIONAL ENGINEER

DATE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
June, 2026	G.B.	J.I.R.	G.B.

No.	DATE	BY	REVISION
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WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

YARD PIPING PLAN

PROJECT NO.
21820

DRAWING NO.
5 of 9

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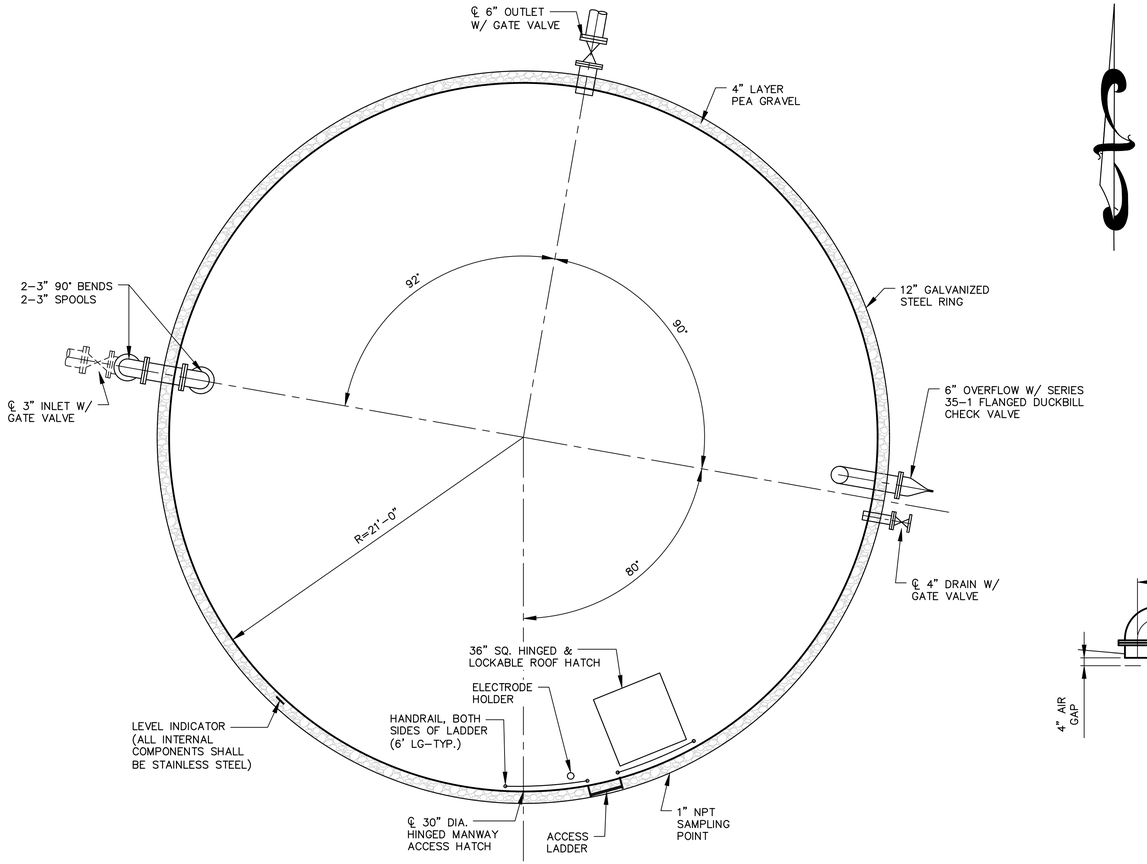
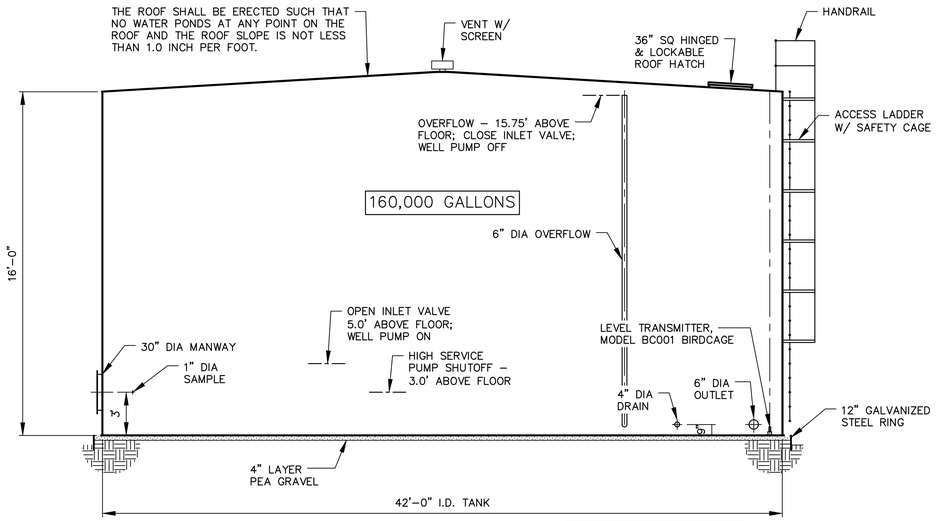


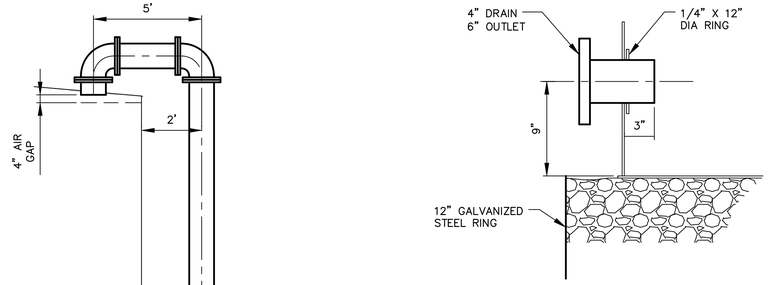
TOP VIEW – TANK
NOT TO SCALE

SECTION THRU RING
NOT TO SCALE

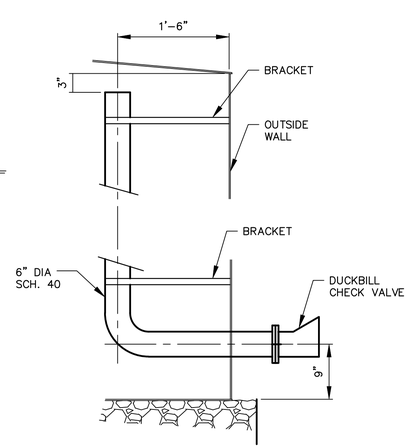


ELEVATION
NOT TO SCALE

NOTE:
PIPING AND OTHER EQUIPMENT ROTATED FOR CLARITY.



DRAIN/OUTLET



6" OVERFLOW

3" INLET
NOT TO SCALE

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5064 E I-20 Service Rd South
Willow Park, TX 76087
(817) 441-1300
www.wasteline-eng.com
Texas Registered Engineering Firm #F-1669

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY	REVISION

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

GROUND STORAGE TANK DETAILS

PROJECT NO. 21820

DRAWING NO. 6 of 9

BEFORE YOU DIG Texas811.com
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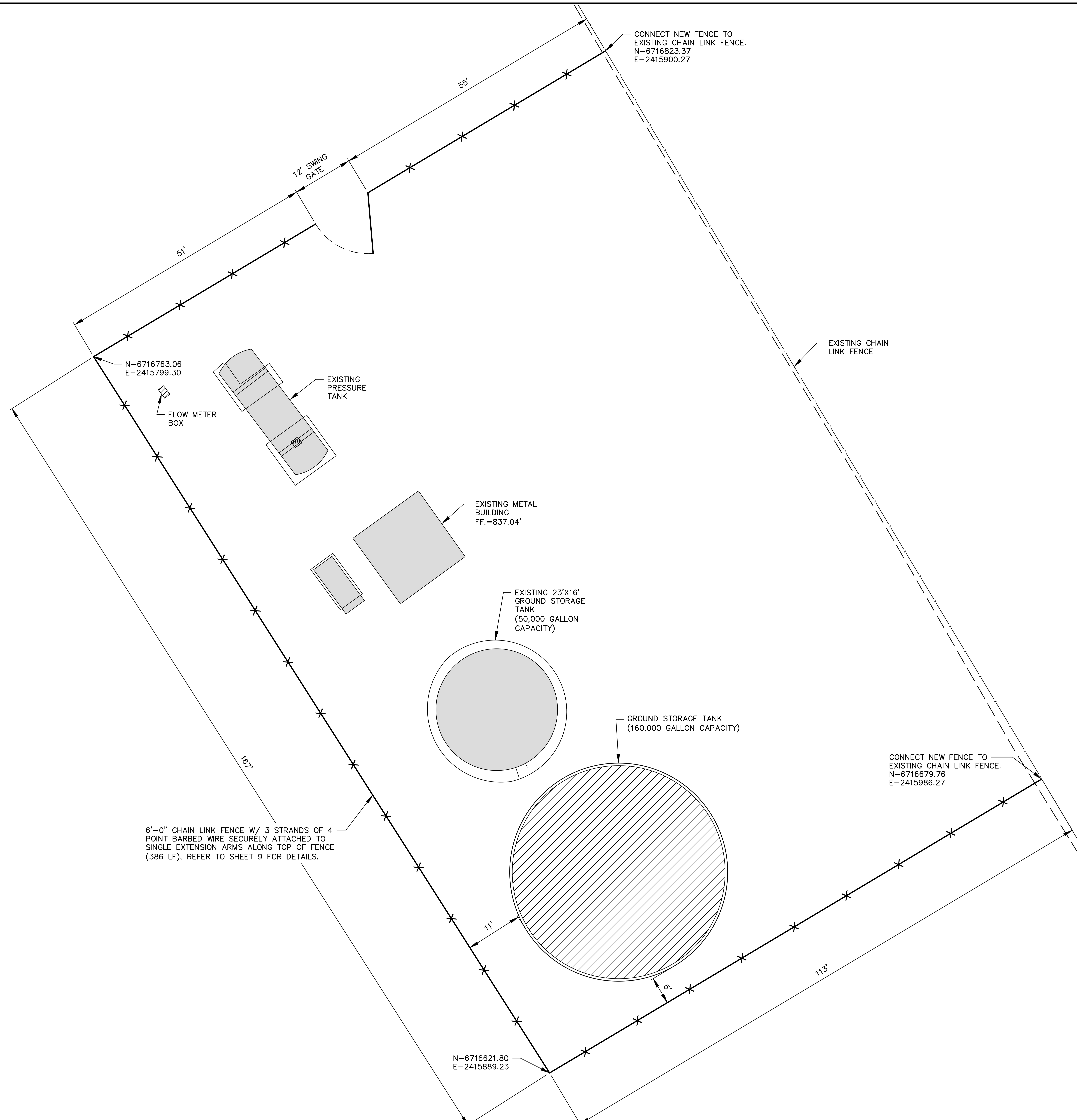
NOTE:
ALL PIPE LENGTHS ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR TO CONFIRM ALL DIMENSIONS IN THE FIELD BEFORE CONSTRUCTION BEGINS.



FENCE LAYOUT PLAN

NOT TO SCALE

LEGEND
— 800— — EXISTING CONTOURS
——800—— PROPOSED CONTOURS

0 10 20 30
GRAPHIC SCALE IN FEET

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BEFORE YOU DIG CALL @ 1-800-344-8377

STATE OF TEXAS
GLENN BREISCH
47346
REGISTERED PROFESSIONAL ENGINEER
June 08, 2026

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY	REVISION

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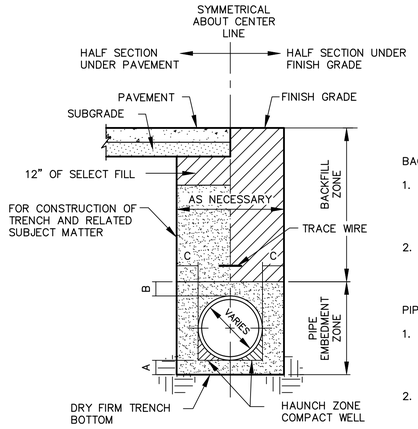
WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

FENCE LAYOUT PLAN

PROJECT NO. 21820

DRAWING NO. 7 of 9



DIMENSIONAL REQUIREMENTS

PIPE SIZE	A	B	C
20" AND SMALLER	6"	12"	9"
21" THRU 48"	6"	12"	12"
54" THRU 66"	9"	12"	15"
72" AND LARGER	12"	18"	15"

MATERIAL REQUIREMENTS

BACKFILL ZONE

1. IN PAVED AREAS, USE CEMENT STABILIZED SAND, PLACE IN 6" LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY, TO WITHIN 12" OF SUBGRADE.
2. IN UNPAVED AREAS, USE SOIL EXCAVATED FROM TRENCH, PLACE IN 6" LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY.

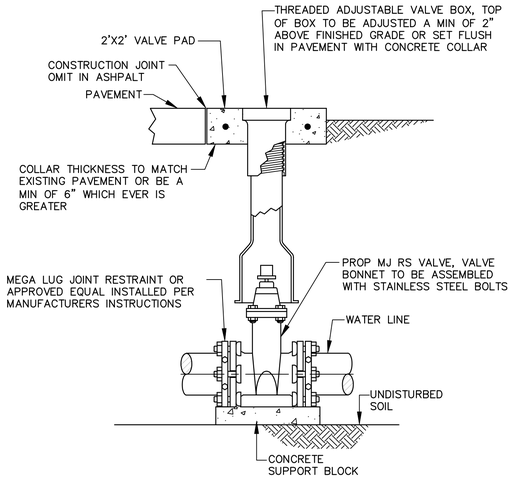
PIPE EMBEDMENT ZONE

1. FOR STORM AND SANITARY SEWERS, USE CEMENT STABILIZED SAND, PLACE IN 6" LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY.
2. FOR WATER LINES, USE SAND. PLACE IN 6" LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY.

SPECIAL NOTE:
ANY EXCAVATION WITHIN 3' OR LESS OF HIGHWAY PAVEMENT EDGE OR CITY STREET SHALL REQUIRE 1-1/2 SACK CEMENT STABILIZED BACKFILL UP TO ROAD BASE. COMPACTED IN 8" LIFTS WITH VIBRATORY PLATE.

BEDDING & BACKFILL FOR DRY STABLE TRENCH

NOT TO SCALE



WATER VALVE AND BOX DETAIL

NOT TO SCALE

90° BEND	
PIPE SIZE	BEARING AREA
4"	2 S.F.
6"	4 S.F.
8"	8 S.F.
10"	12 S.F.
12"	16 S.F.
14"	22 S.F.
16"	29 S.F.
18"	36 S.F.
20"	44 S.F.
24"	64 S.F.
30"	100 S.F.
36"	103 S.F.

45° BEND	
PIPE SIZE	BEARING AREA
4"	1 S.F.
6"	3 S.F.
8"	4 S.F.
10"	6 S.F.
12"	9 S.F.
14"	12 S.F.
16"	16 S.F.
18"	20 S.F.
20"	24 S.F.
24"	36 S.F.
30"	54 S.F.
36"	72 S.F.

22 1/2° BEND	
PIPE SIZE	BEARING AREA
4"	1 S.F.
6"	1 S.F.
8"	2 S.F.
10"	3 S.F.
12"	5 S.F.
14"	6 S.F.
16"	8 S.F.
18"	10 S.F.
20"	12 S.F.
24"	18 S.F.
30"	28 S.F.
36"	38 S.F.

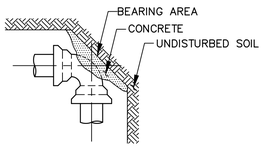
11 1/4° BEND	
PIPE SIZE	BEARING AREA
4"	1 S.F.
6"	1 S.F.
8"	1 S.F.
10"	2 S.F.
12"	2 S.F.
14"	3 S.F.
16"	4 S.F.
18"	5 S.F.
20"	6 S.F.
24"	9 S.F.
30"	12 S.F.
36"	15 S.F.

TEE	
PIPE SIZE	BEARING AREA
4"	2 S.F.
6"	3 S.F.
8"	5 S.F.
10"	8 S.F.
12"	12 S.F.
14"	15 S.F.
16"	20 S.F.
18"	25 S.F.
20"	32 S.F.
24"	45 S.F.
30"	71 S.F.
36"	77 S.F.

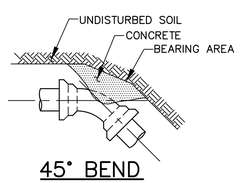
PLUG	
PIPE SIZE	BEARING AREA
4"	2 S.F.
6"	3 S.F.
8"	5 S.F.
10"	8 S.F.
12"	12 S.F.
14"	15 S.F.
16"	20 S.F.
18"	25 S.F.
20"	32 S.F.
24"	45 S.F.
30"	71 S.F.
36"	77 S.F.

THRUST BLOCKING NOTES:

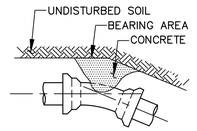
1. PLACE CONCRETE AGAINST UNDISTURBED SOIL AND FITTING ONLY, CLEAR OF THE JOINT.
2. ALL IRON FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE FILM 8 MILS MIN THICKNESS MEETING ANSI 21.5 (AWWA C105) WITH ALL EDGES AND LAPS TAPED SECURELY TO PROVIDE A CONTINUOUS AND WATERTIGHT WRAP.
3. DIMENSIONS ARE BASED ON 150 PSI TEST PRESSURE AND SAFE SOIL BEARING LOAD OF 1100 PSI.



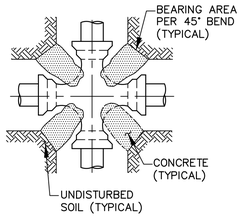
90° BEND



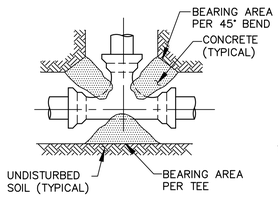
45° BEND



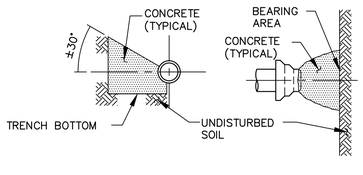
11 1/4° & 22 1/2° BEND



CROSS



TEE



CROSS SECTION PLUG

HORIZONTAL THRUST BLOCKING DETAILS

NOT TO SCALE

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY	REVISION

WASTELINE ENGINEERING, INC.
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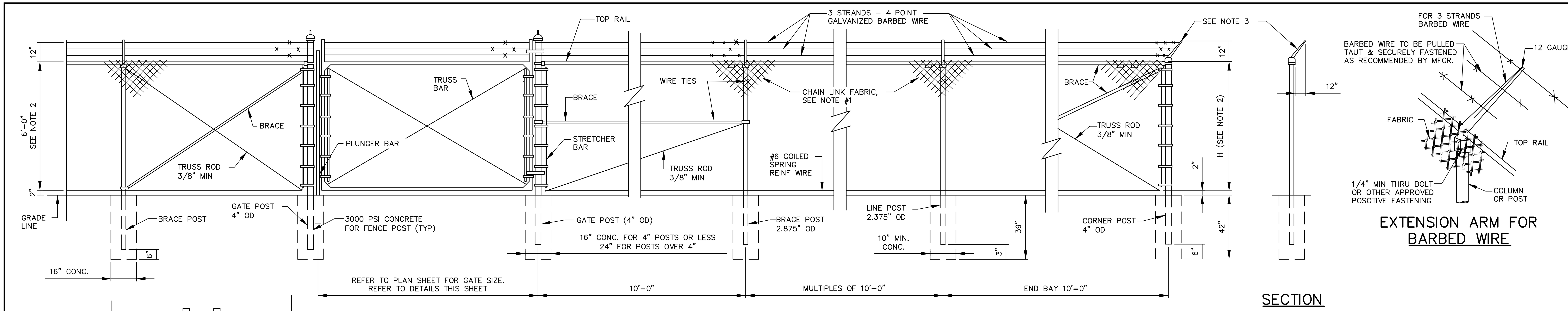
Texas Registered Engineering Firm #F-1669

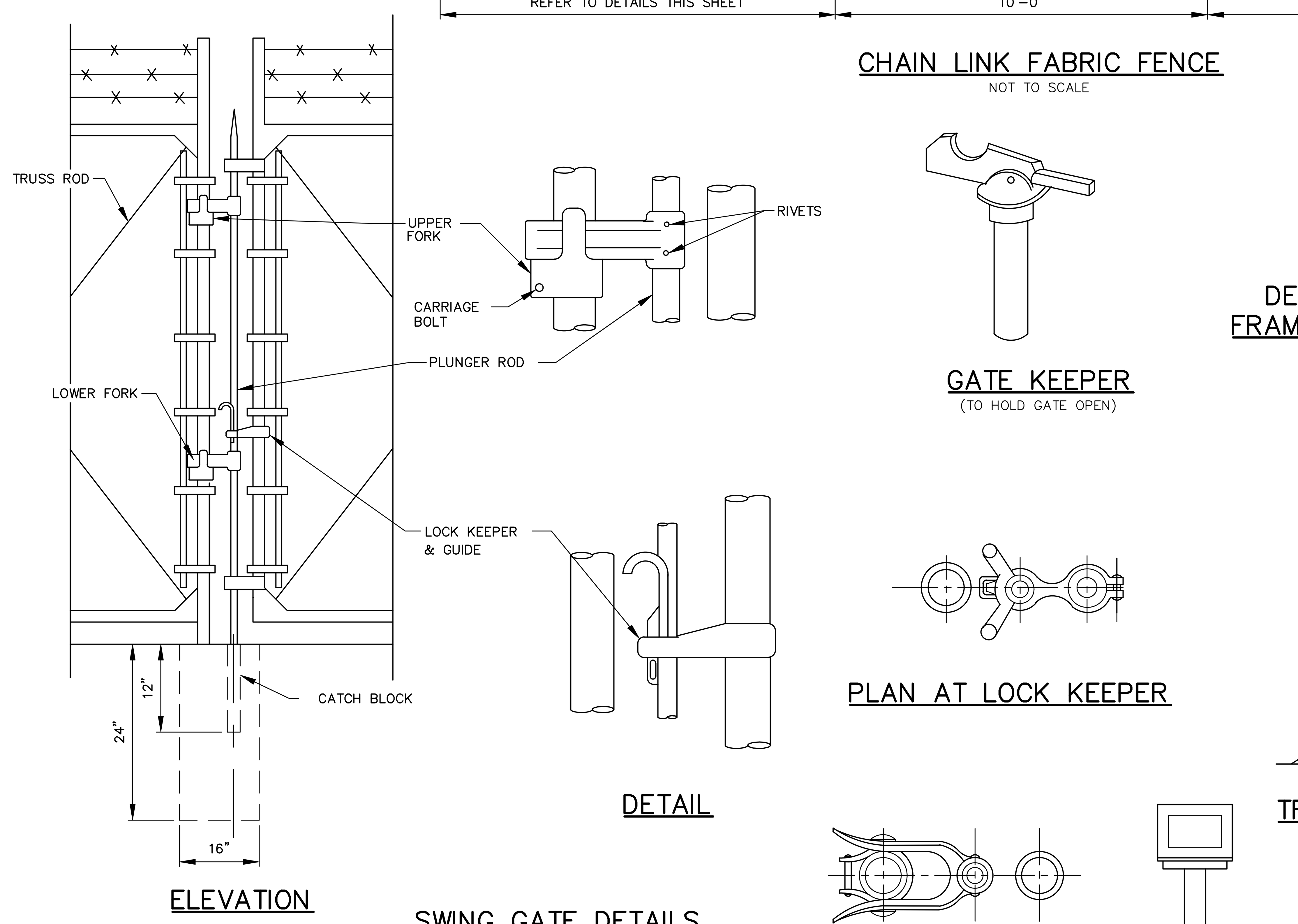
WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

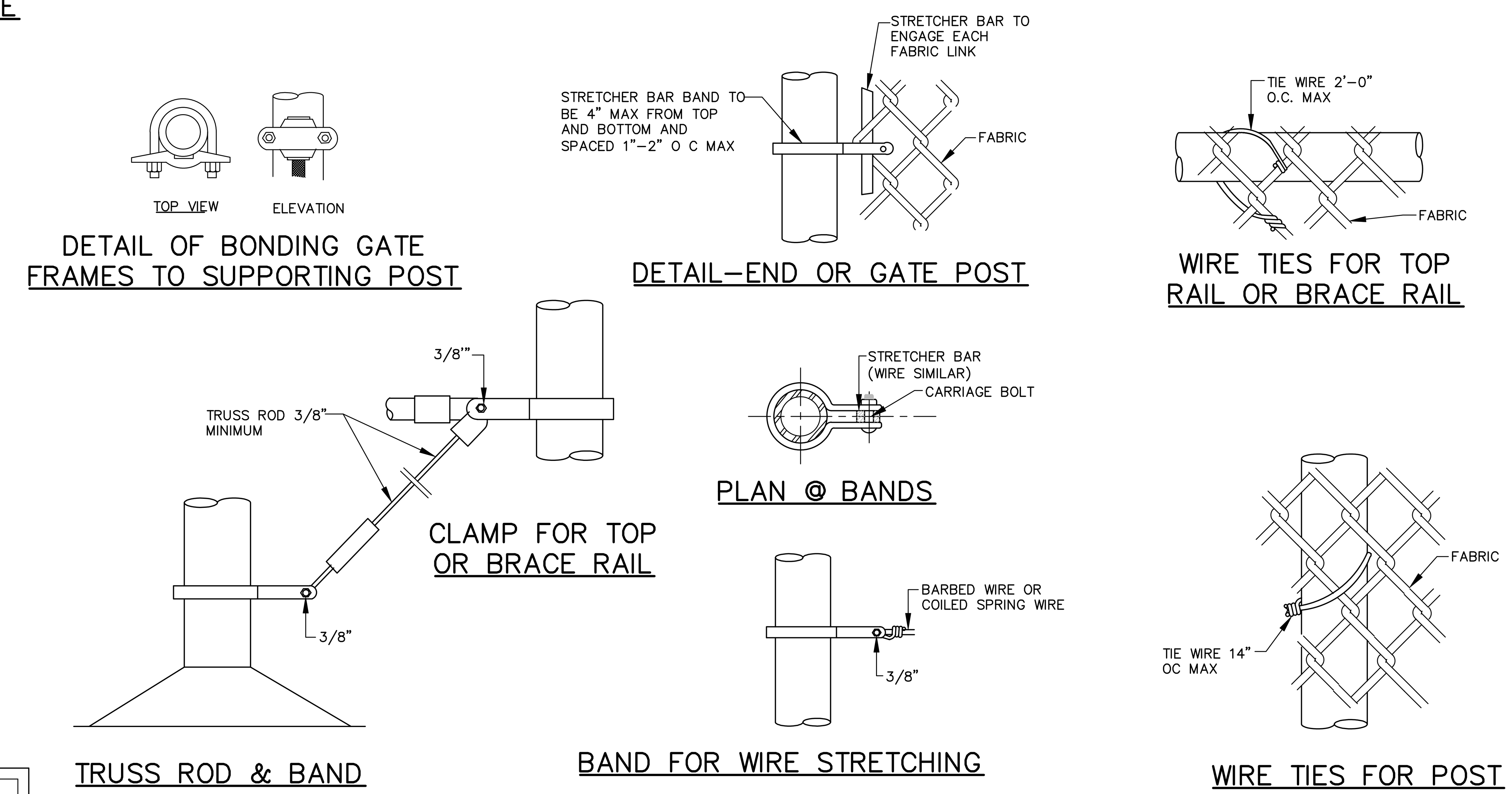
MISC DETAILS

PROJECT NO. 21820

DRAWING NO. 8 of 9





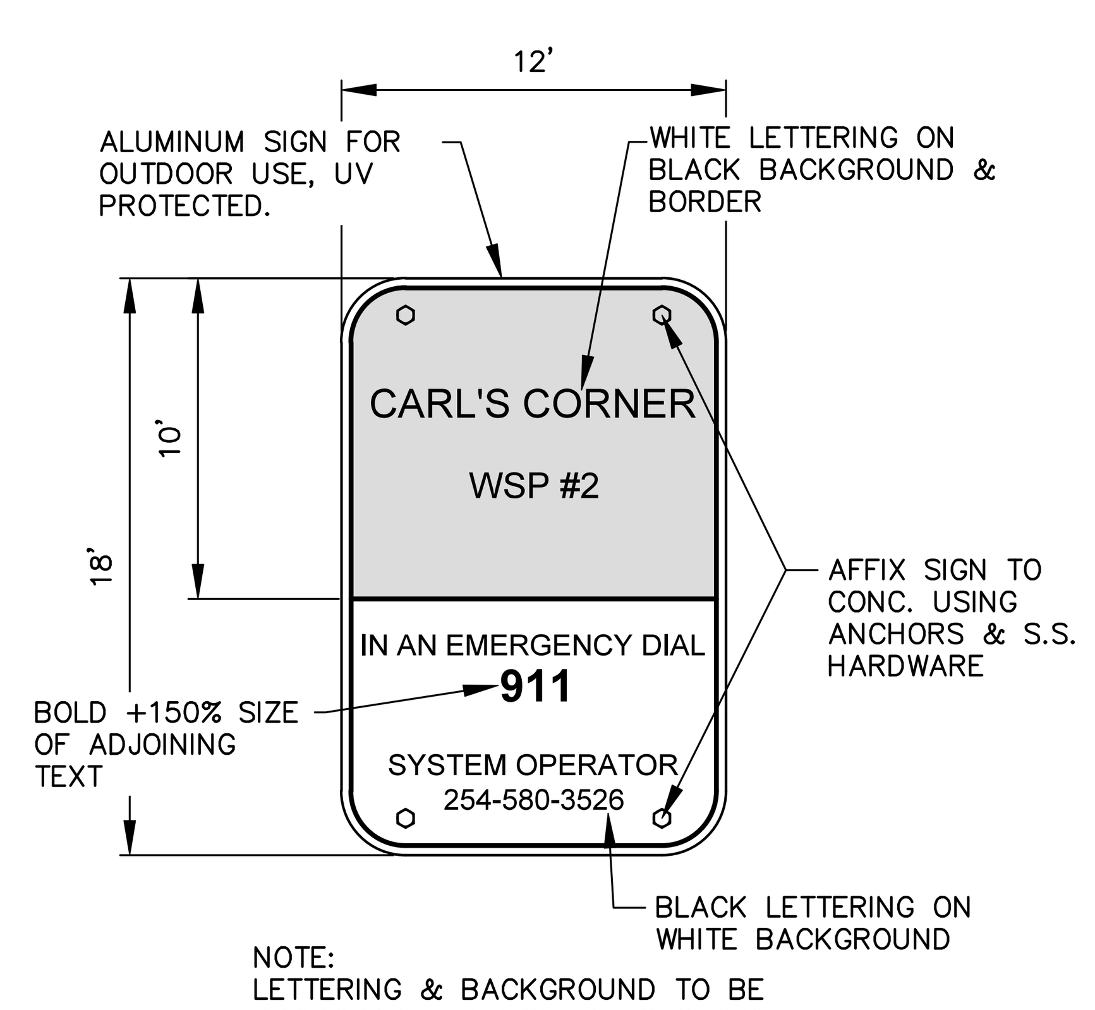


GENERAL NOTES:

1. ALL FABRIC TO BE #9 GAGE WIRE, WOVEN IN A 2" MESH. TOP AND BOTTOM EDGES TO BE TWISTED AND BANDED.

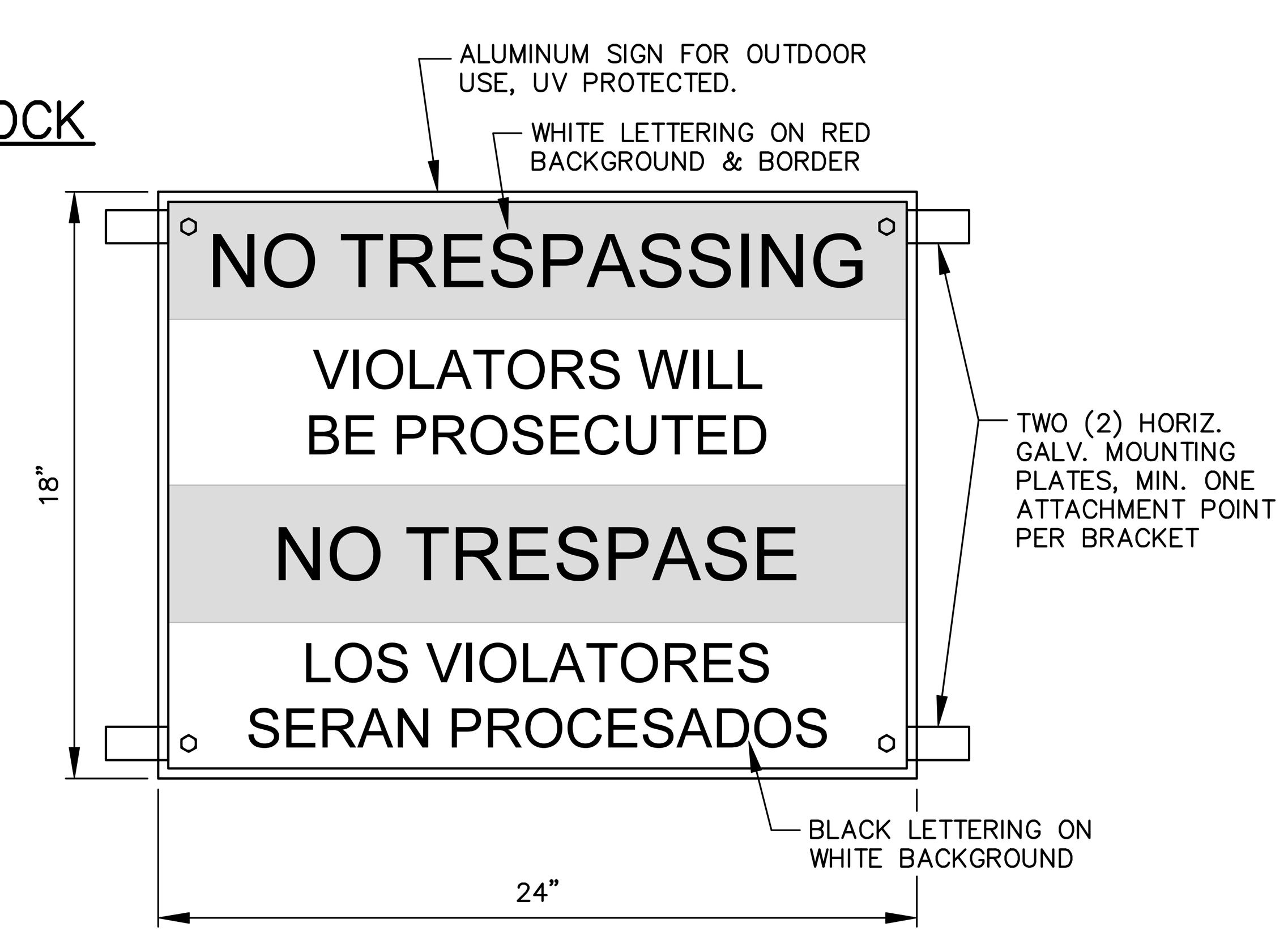
2. HEIGHT (H) OF FENCE TO BE 6'-0" WITH 3 STRANDS OF 4 POINT BARBED WIRE SECURELY ATTACHED TO SINGLE EXTENSION ARMS ALONG TOP OF FENCE, TOP STRAND TO BE 1'-0" ABOVE.

3. SINGLE EXTENSION ARMS SHALL POINT OUTWARD AT AN ANGLE OF 45.



EMERGENCY CONTACT SIGN

NOT TO SCALE



NO TRESPASSING SIGN

NOT TO SCALE

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DATE: June, 2026

DESIGNED BY: G.B.

DRAWN BY: J.I.R.

CHECKED BY: G.B.

No.	DATE	BY	REVISION

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Willow Park, TX 76087
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(817) 441-1033 fax

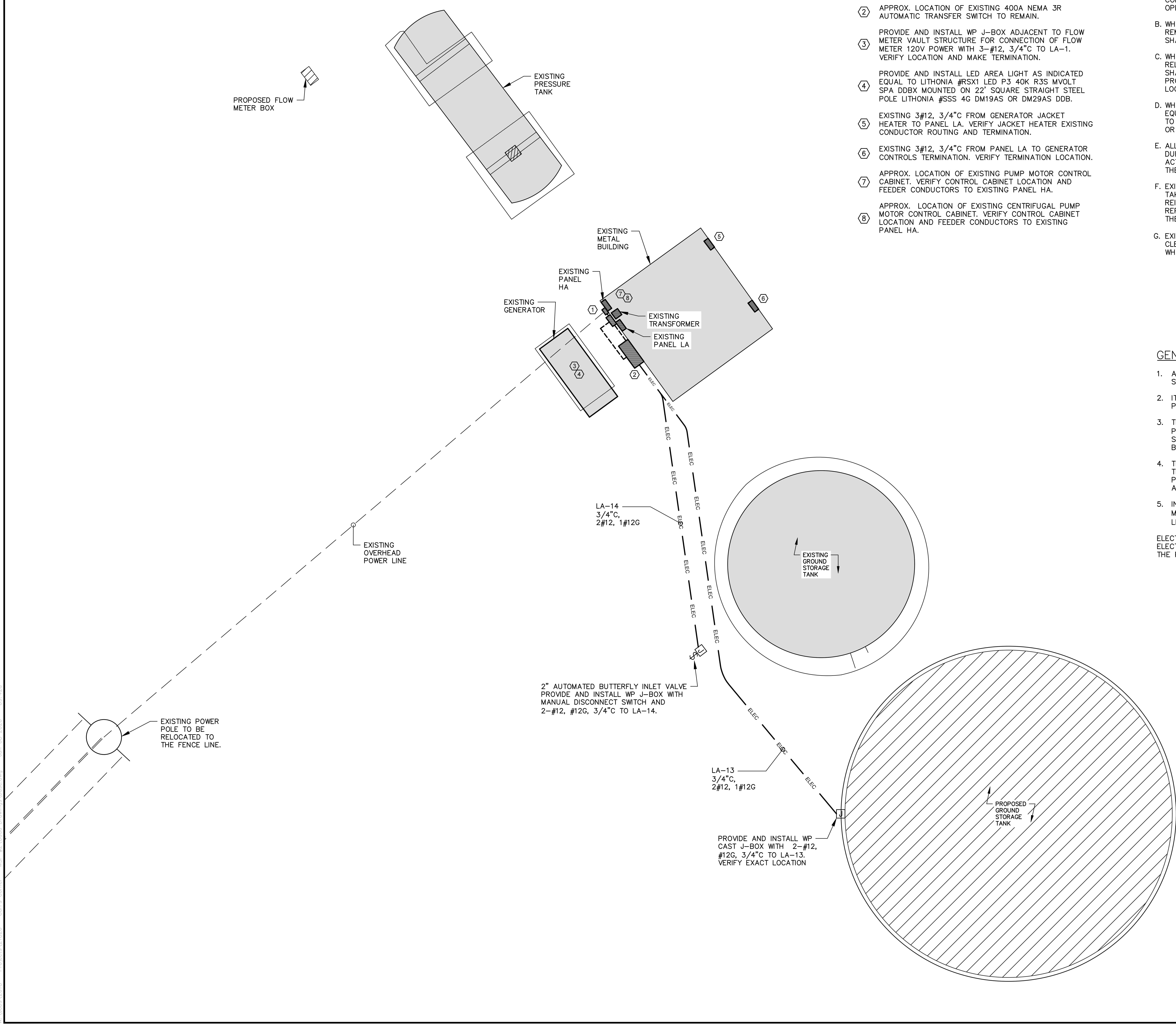
Texas Registered Engineering Firm #F-1669

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

CHAIN LINK FENCE DETAILS

PROJECT NO. 21820

DRAWING NO.



NOTES BY SYMBOL

1. APPROX. LOCATION OF EXISTING SERVICE EQUIPMENT MAIN DISCONNECT AND SERVICE METER
2. APPROX. LOCATION OF EXISTING 400A NEMA 3R AUTOMATIC TRANSFER SWITCH TO REMAIN.
3. PROVIDE AND INSTALL WP J-BOX ADJACENT TO FLOW METER VAULT STRUCTURE FOR CONNECTION OF FLOW METER 120V POWER WITH 3-#12, 3/4"C TO LA-1. VERIFY LOCATION AND MAKE TERMINATION.
4. PROVIDE AND INSTALL LED AREA LIGHT AS INDICATED EQUAL TO LITHONIA #RSX1 LED P3 40K R3S MVOLT SPA DDBX MOUNTED ON 22' SQUARE STRAIGHT STEEL POLE LITHONIA #SSS 4G DM19AS OR DM29AS DDB.
5. EXISTING 3#12, 3/4"C FROM GENERATOR JACKET HEATER TO PANEL LA. VERIFY JACKET HEATER EXISTING CONDUCTOR ROUTING AND TERMINATION.
6. EXISTING 3#12, 3/4"C FROM PANEL LA TO GENERATOR CONTROLS TERMINATION. VERIFY TERMINATION LOCATION.
7. APPROX. LOCATION OF EXISTING PUMP MOTOR CONTROL CABINET. VERIFY CONTROL CABINET LOCATION AND FEEDER CONDUCTORS TO EXISTING PANEL HA.
8. APPROX. LOCATION OF EXISTING CENTRIFUGAL PUMP MOTOR CONTROL CABINET. VERIFY CONTROL CABINET LOCATION AND FEEDER CONDUCTORS TO EXISTING PANEL HA.

GENERAL DEMOLITION NOTES:

A. PROVIDE ALL WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATON OF ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUCTORS, CONDUIT, BOXES, ETC. TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.

B. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE.

C. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO A CONCEALED J-BOX AND NEW PRODUCTS SHALL BE USED TO EXTEND THE SERVICE TO THE NEW LOCATION.

D. WHERE THE REMOVAL OF DEVICES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICE SHALL BE EXTENDED TO THE DOWNSTREAM DEVICE OR EQUIPMENT SO THAT THE DEVICE OR EQUIPMENT IS LEFT IN OPERATING CONDITION.

E. ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRING REMOVED DURING CONSTRUCTION NO LONGER REQUIRED AS PART OF AN ACTIVE SYSTEM AND NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER.

F. EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

G. EXISTING DEVICES AND/OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ENGINEER WHERE APPLICABLE.

GENERAL SITE NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH CITY & STATE STANDARD SPECIFICATIONS.
2. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE JOB SITE PRIOR TO BIDDING.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING PRIVATE AND PUBLIC FEATURES/UTILITIES FROM DAMAGES. THE CONTRACTOR SHALL BE HELD FINANCIALLY RESPONSIBLE FOR ANY DAMAGE DONE BY HIS CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC AT ALL TIMES AND PROVIDE ACCESS TO ALL DRIVES. A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
5. INSTALL LONG SWEEP 90° ELBOWS ON PHONE LINES. MAINTAIN A MINIMUM OF 24" SEPARATION BETWEEN POWER LINES AND PHONE LINES. BURY PHONE LINES A MINIMUM OF 24" DEEP.

ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE WITH ELECTRIC COMPANY, VERIFY COST METERING AND WHAT IS SUPPLIED BY THE POWER CO.

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Texas Registered Engineering Firm #F-1669
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(817) 441-1300
www.wasteline-eng.com

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

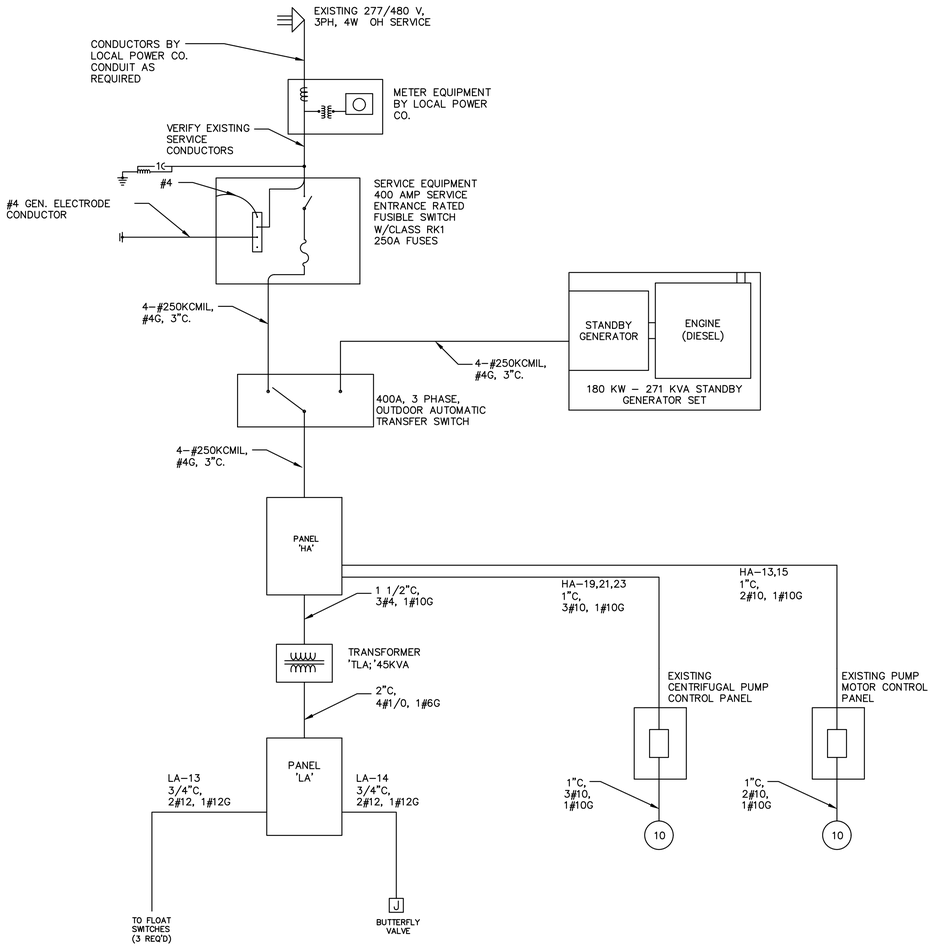
No.	DATE	BY	REVISION

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

SITE ELECTRICAL PLAN

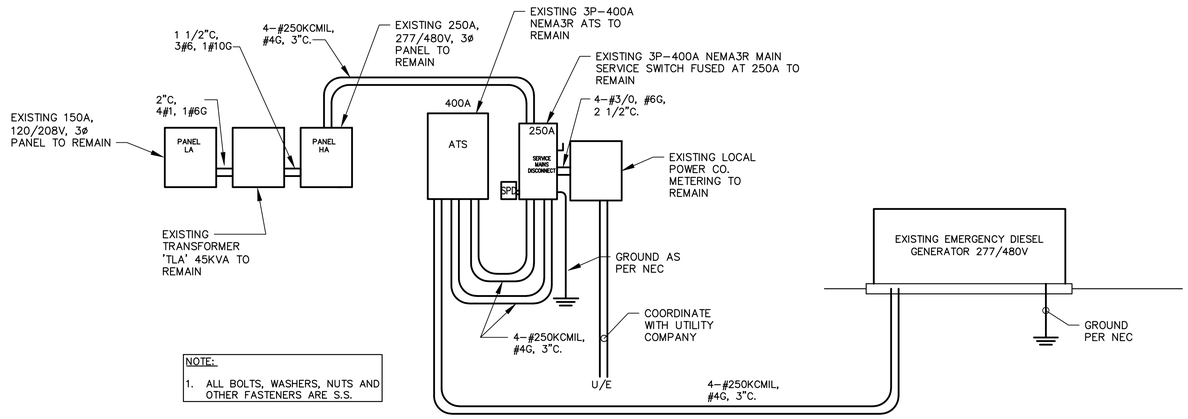
PROJECT NO. 21820

DRAWING NO. E1



1 E2 ELECTRICAL RISER DIAGRAM

NO SCALE

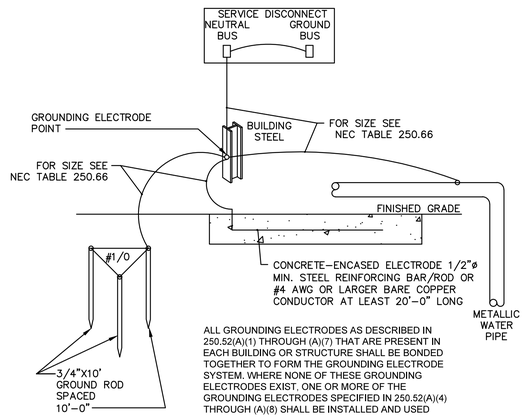


NOTE:

1. ALL BOLTS, WASHERS, NUTS AND OTHER FASTENERS ARE S.S.

3 E2 ELECTRICAL SERVICE DETAIL

NO SCALE



ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT IN EACH BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(8) SHALL BE INSTALLED AND USED

TABLE 250.66 GROUNDING ELECTRODE CONDUCTOR FOR ALTERNATING–CURRENT SYSTEMS

SIZE OF LARGEST UNGROUNDED SERVICE–ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS*(AWG/kcmil)		SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/kcmil)	
COPPER	ALUMINUM OR COPPER–CLAD ALUMINUM	COPPER	ALUMINUM OR COPPER–CLAD ALUMINUM
2 OR SMALLER	1/0 OR SMALLER	8	6
1 OR 1/0	2/0 OR 3/0	6	4
2/0 OR 3/0	4/0 OR 250	4	2
OVER 3/0 THRU 350	OVER 250 THRU 500	2	1/0
OVER 350 THRU 600	OVER 500 THRU 900	1/0	3/0
OVER 600 THRU 1100	OVER 900 THRU 1750	2/0	4/0
OVER 1100	OVER 1750	3/0	250

NOTES:

1. IF MULTIPLE SETS OF SERVICE–ENTRANCE CONDUCTORS CONNECT DIRECTLY TO A SERVICE DROP, SET OF OVERHEAD SERVICE CONDUCTORS, SET OF UNDERGROUND SERVICE CONDUCTORS, OR SERVICE LATERAL, THE EQUIVALENT SIZE OF THE LARGEST SERVICE–ENTRANCE CONDUCTOR SHALL BE DETERMINED BY THE LARGEST SUM OF THE AREA OF THE CORRESPONDING CONDUCTORS OF EACH SET.
2. WHERE THERE ARE NO SERVICE–ENTRANCE CONDUCTORS, THE GROUNDING ELECTRODE CONDUCTOR SIZE SHALL BE DETERMINED BY THE EQUIVALENT SIZE OF THE LARGEST SERVICE–ENTRANCE CONDUCTOR REQUIRED FOR THE LOAD TO BE SERVED

* THIS TABLE ALSO APPLIES TO THE DERIVED CONDUCTORS OF SEPARATELY DERIVED AC SYSTEMS.
* SEE INSTALLATION RESTRICTIONS IN 250.64(A)

2 E2 SERVICE ENTRANCE GROUNDING DETAIL

NO SCALE

STATE OF TEXAS
JAMES R. WASTELINE
REGISTERED PROFESSIONAL ENGINEER
47346
June 26, 2026

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

No.	DATE	BY
	REVISION	

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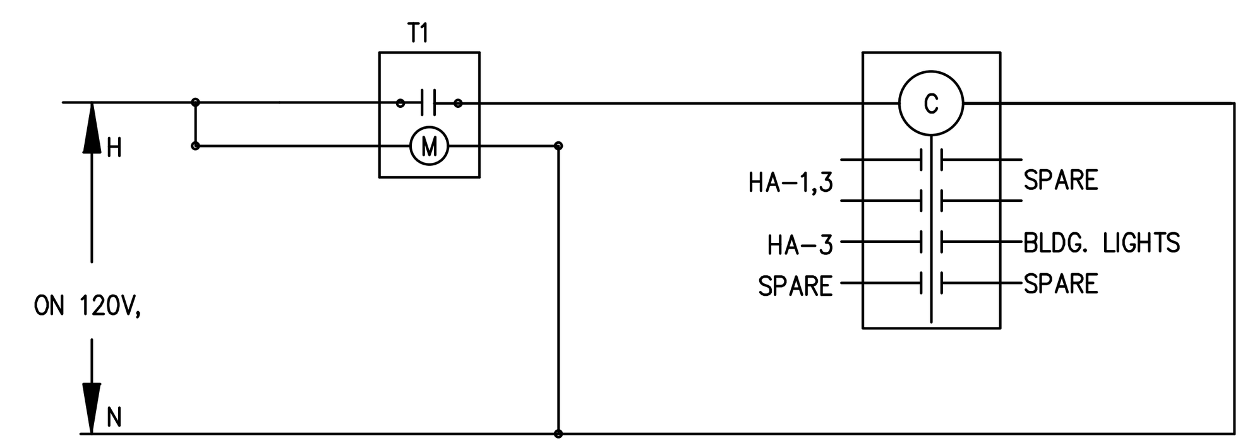
Willow Park, TX 76087
(817) 441-1300
www.wasteline-eng.com
WASTELINE ENGINEERING, INC.
Texas Registered Engineering Firm #F-1669

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

ELECTRICAL RISER DIAGRAM

PROJECT NO. 21820

DRAWING NO. E2



NOTE:
A. TIMECLOCK SHALL BE TORK DIGITAL SERIES MODEL EW101 OR APPROVED EQUAL.
B. CONTACTORS SHALL BE ELECTRICALLY HELD SQUARE D MODEL 8903 WITH POLE QUANTITIES AS INDICATED. INSTALL IN NEMA 3R ENCLOSURE.

LIGHTING CONTROL SCHEMATIC

NOT TO SCALE

PANEL HA

SERVICE: 277/480 VOLTS 3 ø 4 W
MAINS: 250 (AMPS) MLO
CABINET: SURFACE MOUNTED

LOAD		WIRE	BKR.	CKT	CKT	BKR.	WIRE	LOAD	
–	–	–		1	2			SPACE	–
–	200		20	3	4			SPACE	–
SPACE	–	12	20	5	6			SPACE	–
SPACE	–	6		7	8	20		SPACE	–
SPACE	–		20	9	10	20		SPACE	–
SPACE	–	12	20	11	12	20		SPACE	–
EX. PUMP MOTOR	2928	12		13	14	20		SPACE	–
	2928		20	15	16	20		SPACE	–
SPACE	–			17	18	20		SPACE	–
EX. PUMP MOTOR	3878	12		19	20			SPACE	–
	3878			21	22			SPACE	–
	3878		20	23	24			SPACE	–
PANEL LA	2500	6		25	26		4	EXISTING	17500
	1000			27	28				17500
	2500		60	29	30	80			17500
				31	32				
				33	34				
				35	36				
				37	38				
				39	40				
				41	42				

TOTAL CONNECTED LOAD= 76,390 VA

PANEL LA

SERVICE: 120/208 VOLTS 3 ø 4 W
MAINS: 125 (AMPS) BREAKER
CABINET: SURFACE MOUNTED

LOAD		WIRE	BKR.	CKT	CKT	BKR.	WIRE	LOAD	
SPACE	–			1	2			SPACE	–
SPACE	–			3	4			SPACE	–
EXISTING	1000		20	5	6	20	12	EXISTING	500
EXISTING	1500	12		7	8	20	12	EXISTING	500
EXISTING	500	12		9	10	20	12	EXISTING	500
–	500		20	11	12	20	12	EXISTING	500
SPACE	–			13	14			SPACE	–
SPACE	–			15	16			SPACE	–

TOTAL CONNECTED LOAD= 6,000 VA

BEFORE YOU DIG Texas811.com
BEFORE YOU DIG CALL @ 1-800-344-8377

STATE OF TEXAS
GLENN BREISCH
47346
REGISTERED PROFESSIONAL ENGINEER

DATE: June, 2026
DESIGNED BY: G.B.
DRAWN BY: J.I.R.
CHECKED BY: G.B.

REVISION
No. DATE BY

WASTELINE ENGINEERING, INC.
Texas Registered Engineering Firm #F-1669
5064 E I-20 Service Rd South
Willow Park, TX 76087
(817) 441-1300
www.wasteline-eng.com

WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

ELECTRICAL DETAILS

PROJECT NO.
21820

DRAWING NO.
E3

ELECTRICAL – GENERAL REQUIREMENTS

GENERAL:
CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR AS INDICATED ON PLANS AND AS REQUIRED FOR A COMPLETE LIGHTING AND POWER SYSTEM.

EXAMINATION OF PREMISES:
CONTRACTOR SHALL VISIT THE JOB SITE AND BE AWARE OF CONDITIONS UNDER WHICH HE MUST WORK.

PERMITS AND FEES:
CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES.

CODES:
ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRIC CODE, THE CODES OF O.S.H.A. BARRIER FREE, A.D.A. AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.

UTILITY COMPANY REQUIREMENTS:
COMPLY WITH CONSTRUCTION STANDARDS AND RULES OF LOCAL UTILITY COMPANIES. CONTRACTOR SHALL CONTACT UTILITY COMPANIES AND VERIFY ALL SERVICE REQUIREMENTS. INCLUDE IN BASE BID, ALL UTILITY COMPANY CHARGES.

GROUNDING:
CABINETS, MOTOR FRAMES, STARTERS, CONDUIT SYSTEMS, PANELS, ETC., SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST N.E.C. AND LOCAL CODES. PROVIDE SERVICE GROUND AND GROUND MAT AT PAD MOUNTED TRANSFORMER.

MATERIALS:
MATERIALS SHALL BE NEW AND BEAR THE U.L. LABEL OR LISTING, WHEREVER STANDARDS HAVE BEEN ESTABLISHED.

AS-BUILT DRAWINGS:
CONTRACTOR SHALL PREPARE AND MAINTAIN ACCURATE RECORD DRAWINGS OF ALL UNDERGROUND AND CONCEALED WORK AND SHALL SUBMIT THESE DRAWINGS TO OWNER UPON FINAL ACCEPTANCE OF THE WORK OR UPON OWNER'S REQUEST.

DRAWINGS AND MEASUREMENTS:
THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN, MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS. FIELD MEASUREMENTS NECESSARY FOR ORDERING MATERIALS AND FITTING THE INSTALLATION TO THE BUILDING CONSTRUCTION AND ARRANGEMENT SHALL BE TAKEN BY THIS CONTRACTOR.

SHOP DRAWINGS:
COMPLETE SHOP DRAWINGS FOR ALL ELECTRICAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION OF THE WORK. SEVEN (7) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ITEMS OF ELECTRICAL EQUIPMENT, PANELS, LIGHT FIXTURES, SPECIALTIES, ETC.

CLEANING AND FINISHING:
AFTER ALL TESTS HAVE BEEN MADE THE CONTRACTOR SHALL CAREFULLY MAKE A THOROUGH INSPECTION OF THE ENTIRE INSTALLATION AND HAVE THE ENTIRE WORK THOROUGHLY CLEANED, ALL RUBBISH REMOVED, AND LEAVE ALL WORK SATISFACTORY TO THE OWNER.

COORDINATION WITH OTHER WORK:
CONSULT THE PLANS COVERING THE WORK FOR THE VARIOUS OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THESE TRADES, AND THEIR SHOP DRAWINGS. THE CONTRACTOR SHALL BE AWARE AND RESPONSIBLE IN LAYING OUT THE ELECTRICAL WORK.

DAMAGE TO OTHER WORK:
THE ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE TO WORK CAUSED BY HIS WORK OR THROUGH THE NEGLECT OF HIS WORKMEN. ALL PATCHING AND REPAIRING OF DAMAGED WORK SHALL BE DONE BY THE GENERAL CONTRACTOR, BUT THE COST OF SAME SHALL BE PAID BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.

TESTING:
AFTER ALL ELECTRICAL WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER THAT THE ENTIRE INSTALLATION IS IN WORKING ORDER. ANY DEFECTIVE WORK OR EQUIPMENT, OR ANY WORK THAT IS NOT IN COMPLIANCE WITH THE SPECIFICATIONS, SHALL BE PROMPTLY CORRECTED BY THE CONTRACTOR.

CUTTING AND PATCHING:
CUTTING, CORE DRILLING, INSERTS AND CONDUIT OR CABLE SLEEVES AND PATCHING REQUIRED IN THE GENERAL CONSTRUCTION FOR COMPLETION OF THE WORK, SPECIFIED HEREIN, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

CONDUIT SLEEVES:
PROVIDE CONDUIT SLEEVES WHERE CONDUITS PASS THRU FLOORS, WALLS, ETC. AS REQUIRED. ALL VOIDS BETWEEN SLEEVES OR HOLES AND CONDUITS PASSING THRU SHALL BE FIRESTOPPED. SPECSEAL 100 FIRE STOP SEALANT OR EQUAL.

EXCAVATION AND BACK FILLING:
ALL EXCAVATING, TRENCHING AND BACK FILLING TO INSTALL ELECTRICAL WORK SHALL BE BY THE ELECTRICAL CONTRACTOR.

EQUIPMENT FOUNDATIONS:
CONCRETE BASES SHALL BE PROVIDED FOR SITE LIGHTING FIXTURES. CONCRETE PADS SHALL BE PROVIDED FOR UTILITY COMPANY PAD MOUNTED TRANSFORMER. CONCRETE HOUSEKEEPING PAD SHALL BE PROVIDED FOR FREE STANDING PANELS.

MOUNTING HEIGHTS:

LIGHTING SWITCHES	4'-0" TO CENTERLINE
RECEPTACLES	1'-6" TO BOTTOM
TELEPHONE/DATA	1'-6" TO BOTTOM
LIGHTING PANELS	6'-6" TO TOP
DISTRIBUTION PANELS	7'-0" TO TOP
MOTOR STARTERS/DISCONNECTS	5'-6" TO TOP

CERTIFICATE OF APPROVAL:
WHEN THE JOB IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE ARCHITECT/ENGINEER WITH CERTIFICATE OF APPROVAL FROM THE LOCAL ELECTRICAL INSPECTION AUTHORITY. THE CONTRACTOR SHALL GIVE THE OWNER A WRITTEN GUARANTEE THAT HE WILL MAKE GOOD, AT HIS OWN EXPENSE, ANY DEFECTS IN MATERIALS OR WORKMANSHIP WHICH MAY DEVELOP WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.

ELECTRICAL – BASIC MATERIALS

WIRING:
FEEDERS SHALL BE TYPE "THWN" OR "XHHW". BRANCH CIRCUIT WIRING SHALL BE TYPE "THWN/THHN", #12 MINIMUM. ALL WIRE SHALL BE COPPER, HAVE 600 VOLT INSULATION AND BE INSTALLED IN CONDUIT.

SECONDARY SERVICE FEEDERS SHALL BE TYPE "XHHW", PER UTILITY COMPANY REQUIREMENTS.

GROUNDING:
PROVIDE GROUND MAT AT PAD MOUNTED TRANSFORMER PER UTILITY COMPANY REQUIREMENTS.

PROVIDE GROUND RODS AT SERVICE ENTRANCE (3-3/4"x10' LG.) AND CONNECT TO COLD WATER SERVICE. USE #3/0 CU. GRD. CONDUCTOR.

CABINETS, MOTOR FRAMES, STARTERS, CONDUIT SYSTEMS, PANELS, ETC., SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST N.E.C. AND LOCAL CODES.

PROVIDE SEPARATE FULL SIZE GROUND WIRE IN ALL CONDUITS SERVING ALL PANELS, LIGHTING, MOTORS, AND RECEPTACLES.

CONDUIT:
CONDUIT SHALL BE MC, THINWALL (EMT) R.G.S. OR PVC CONDUIT INSTALLED IN OR UNDER FLOOR SHALL BE 3/4" MINIMUM, R.G.S. OR PVC. CONDUIT INSTALLED IN FINISHED AREAS SHALL BE CONCEALED.

PRIMARY SERVICE, TELEPHONE SERVICE AND SITE LIGHTING CONDUITS SHALL BE PVC HEAVY WALL SCHEDULE 40.

SECONDARY SERVICE CONDUIT SHALL BE RIGID GALVANIZED STEEL.

FLEXIBLE METAL CONDUIT WITH GROUND WIRE SHALL BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MOTORS, ETC., 1/2" MINIMUM.

MC CABLE MAY BE USED IN PARTITION WALL OR ABOVE ACCESSIBLE CEILINGS.

NO PVC CONDUIT WILL BE ALLOWED IN BUILDING. ALL CONDUITS TURNING UP FROM UNDERGROUND SHALL BE STEEL ELLS.

SWITCHES:
SWITCHES SHALL BE 20A., 120/277V., 1 POLE, 3 AND 4 WAY AS INDICATED, IVORY FINISH, HUBBELL #1221-I SERIES, COOPER WIRING DEVICES OR LEVITON.

MOTION SENSORS:
WALL MOUNTED MOTION SENSORS SHALL BE 1200 VA, 277 VOLT OR 800 VA, 120 VOLT FOR UP TO 300 SQUARE FEET COVERAGE, 15 SECOND TO 30 MINUTE TIME ADJUSTMENT, ZERO CROSSING TECHNOLOGY, SELF ADJUSTING SENSITIVITY. NOVITAS #01-250, (SUPERSWITCH MINI WALL SWITCH), OR WATT STOPPER.

RECEPTACLES:
RECEPTACLES SHALL BE DUPLEX, GROUNDING TYPE 20A., 125V., IVORY FINISH, HUBBELL #5362-I OR EQUAL. SPECIAL PURPOSE RECEPTACLES 30A., 40A., 50A., 2P. OR 3P., ETC., SHALL BE SPECIFICATION GRADE, HUBBELL, COOPER WIRING DEVICES, OR LEVITON.

G.F.I. RECEPTACLES SHALL BE DUPLEX GROUNDING TYPE, 20A., 125V, HUBBELL #GF5362-I, COOPER WIRING DEVICES OR LEVITON.

WEATHERPROOF COVER. THE ENCLOSURE SHALL HAVE CORD PORTS CAPABLE OF ALLOWING AN ELECTRICAL CORD TO PASS THROUGH WHEN COVER IS CLOSED, TAYMAC #20310 OR EQUAL.

WALL PLATES:
WALL PLATES FOR SWITCHES, AND RECEPTACLE OUTLETS SHALL BE SUPER STAINLESS STEEL, ANSI 302, HUBBELL #97000 SERIES, COOPER WIRING DEVICES, OR LEVITON.

OUTLETS:
OUTLET BOXES FOR CONCEALED WORK SHALL BE PRESSED STEEL BOXES, GALVANIZED, #12 GAUGE. WALL OR CEILING BOXES SHALL BE 4" ROUND OR OCTAGONAL, AS REQUIRED. SURFACE MOUNTED BOXES SHALL BE CAST TYPE "FS" OR "FD".

MOTOR STARTERS:
SINGLE PHASE MOTOR STARTERS SHALL HAVE MANUAL TOGGLE SWITCH WITH THERMAL OVERLOADS, FLUSH MOUNTED WITH PILOT LIGHT, SQUARE D, CLASS 2510, CUTLER HAMMER, G.E., OR SIEMONS I.T.E.

THREE PHASE MOTOR STARTERS SHALL BE MAGNETIC TYPE, WITH FUSED CONTROL TRANSFORMER WITH 3 OVERLOADS, HAND-OFF AUTO SWITCH, AUXILIARY CONTACTS AND PILOT LIGHT AS REQUIRED, SQUARE D, CLASS 8536, CUTLER HAMMER, G.E., OR SIEMENS I.T.E.

COMBINATION THREE PHASE MOTOR STARTERS SHALL BE THE SAME AS ABOVE EXCEPT WITH NON-FUSED DISCONNECT.

DISCONNECT SWITCHES:
DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 250 VOLT OR 480 VOLT, FUSED OR NON-FUSED AS INDICATED, IN A NEMA I ENCLOSURE. DISCONNECT SWITCHES INSTALLED OUTDOORS SHALL BE IN A NEMA 3R ENCLOSURE. SQUARE D, CUTLER HAMMER, G.E., OR SIEMENS I.T.E.

FUSES:
601 AMPERE AND LARGER SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN HI-CAP TIME DELAY FUSES KRP-C, 250 VOLT OR 480 VOLT.

0 TO 600 AMPERE SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK DUAL ELEMENT FUSES LPN/LPS, 250 VOLT OR 480 VOLTS.

MOTOR CIRCUITS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN/LPS, 250 VOLT OR 480 VOLTS.

MAIN DISTRIBUTION PANEL:
MAIN DISTRIBUTION PANEL SHALL BE 277/480V., 3 PHASE, 4 WIRE CIRCUIT BREAKER TYPE, CLASS I CONSTRUCTION, BRACED FOR 50,000 A.I.C., SERVICE ENTRANCE LABELED, SQUARE D, CUTLER HAMMER, G.E. OR SIEMENS I.T.E.

LIGHTING PANELS:
PANELS SHALL BE 277/480V., 3 PHASE, 4 WIRE, WITH BOLT-ON CIRCUIT BREAKERS, RATED 25,000 A.I.C., SWITCH DUTY RATED, 20" WIDE CABINET MINIMUM. SQUARE D "NEHB", CUTLER HAMMER, G.E. OR SIEMENS I.T.E. PROVIDE TYPEWRITTEN DIRECTORY INDICATING EACH ITEM SERVED.

BRANCH CIRCUIT PANELS:
PANELS SHALL BE 277/480V., 3 PHASE, 4 WIRE, WITH BOLT-ON CIRCUIT BREAKERS RATED 25,000 A.I.C. SWITCH DUTY RATED, 20" WIDE CABINET MINIMUM. SQUARE D "NQOD", CUTLER HAMMER, G.E. OR SIEMENS I.T.E. PROVIDE TYPEWRITTEN DIRECTORY INDICATING EACH ITEM SERVED.

STEP DOWN TRANSFORMERS:
STEP DOWN TRANSFORMERS SHALL BE DRY TYPE, 115° C. RISE, CLASS 220 INSULATION WITH ELECTROSTATIC SHIELD (K4), 480V., 3 PHASE, 3 WIRE, (6) 2-1/2% TAPS (2 ABOVE AND 4 BELOW NORMAL). SQUARE D 7400 NL, CUTLER HAMMER, G.E. OR SIEMENS I.T.E.

NAMEPLATES:
PROVIDE NAMEPLATES ON EACH INDIVIDUAL SAFETY SWITCH, CONTROL STATION, PANEL BOARD, MOTOR STARTER, ETC. NAMEPLATES SHALL BE WHITE LAMINATED PLASTIC WITH BLACK ENGRAVED LETTERS AND A SELF-ADHESIVE BACK.

LIGHTING

LAMPS:
THE LED DRIVER SHALL:
1. BE CONTAINED INSIDE THE LUMINAIRE.
2. BE RATED FOR A MIN. LIFE EXPECTANCY EQUAL TO OR GREATER THAN THE MIN. OPERATION LIFE OF THE LUMINAIRE.
3. NOT HAVE ITS CASE TEMPERATURE RISE BY MORE THAN 10° C WITH NO ADDITIONAL HEAT SINKS.

SYSTEMS

TELEPHONE SERVICE (IF REQUIRED):
PROVIDE TELEPHONE SERVICE AS REQUIRED, INCLUDING PLYWOOD BACKBOARD, OUTLETS, COVERPLATES, CONDUITS WITH PULL WIRES, ETC., FOR A COMPLETE INSTALLATION.

TELEPHONE AND DATA OUTLETS SHALL CONSIST OF A SINGLE GANG OUTLET BOX WITH A 3/4" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE AND INSTALL BLANK STAINLESS STEEL COVERPLATES FOR ALL FUTURE TELEPHONE AND DATA OUTLETS NOT USED.

DATA SYSTEMS (IF REQUIRED)
ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL HANDI-BOX AT WALL FOR DATA TERMINATION. IF METAL STUDS ARE USED A 1" CONDUIT SHALL EXTEND INTO THE ATTIC SPACE, THE END OF WHICH SHALL BE PROTECTED WITH A PLASTIC GROMET.

CATAGORY 6 DATA WIRE SHALL BE INSTALLED EQUAL TO STANDARDS ANSI/TIA/EIA-568-B.2-1, FOR USE IN 1000BASE-T SYSTEMS.

ELECTRICAL CONTRACTOR SHALL INSTALL DATA WIRE AND LEAVE 18" LOOSE IN HANDI-BOX AND 3' LOOSE AT DATABOARD. FINAL TERMINATIONS OF DATAWIRE SHALL BE PERFORMED BY THE OWNNER'S I.T. PROFESSIONIAL.

EMERGENCY GENERATOR:
QUALITY ASSURANCE:
EXISTING DIESEL GENERATOR TO REMAIN WITH SERVICE BY A LOCAL REPRESENTATIVE WITH FACTORY-TRAINED SERVICEMAN. THE LOCAL GENERATOR DISTRIBUTOR SHALL HAVE BEEN IN BUSINESS A MINIMUM OF TEN (10) YEARS IN THE STATE OF THE PROJECT LOCATION.

MANUFACTURERS:
BASIS OF DESIGN -BLUE STAR POWER SYSTEN INC.
ENGINE GENERATOR:
THE ENGINE GENERATOR SET SHALL BE VOLTAGE AS INDICATED, 3-PHASE, 4-WIRE, .8 POWER FACTOR CONTINUOUSLY FOR STAND-BY POWER APPLICATIONS. VIBRATION ISOLATORS SHALL BE PROVIDED FOR THE ENGINE/GENERATOR.

GENERATOR: EXISTING BLUE STAR POWER SYSTEMS INC. PD180-01

CONTROLLER:
VERIFY EXISTING CONTROLLER WITH MICROPROCESSOR BASED DIGITAL DISPLAY FOR MONITIRING LEVEL 1 NFPA110 SAFETIES, UL-508 LISTED, DIGITAL AND ANALOG AC VOLTMETER, AC AMPMETER, PHASE SELECTOR SWITCH, VOLTAGE ADJUSTING BUMO SWITCH PLUS/MINUS 5 PERCENT FREQUENCY, METER, RUNNING TIME METER, AUTOMATIC BATTERY LOAD TEST SYSTEM, FULLY PROGRAMMABLE MOLDED CASE CIRCUIT BREAKER. THE CONTROL/PROTECTION SYSTEM SHALL MONITOR THE CURRENT LEVEL AND VOLTAGE. THE CONTROLS SHALL SHUT DOWN AND LOCK OUT THE GENERATOR SET WHEN OUTPUT CURRENT LEVELS APPROACHES THE THERMAL DAMAGE POINT OF THE ALTERNATOR (SHORT CIRCUIT SHUTDOWN) WITH KEY TYPE RUN-OFF-AUTO SWITCH, RFI SHIELDED CONTROL IN ACCORDANCE WITH MIL-STD 461C PART 9 FOR RADIATED EMISSIONS. COMPLETE TWO WIRE START/STOP CONTROL WHICH SHALL OPERATE ON CLOSURE OF A REMOTE CONTACT. CRANKING CYCLER WITH TEN SECOND ON AND OFF CRANKING PERIODS. CIRCUITRY TO SHUT DOWN THE ENGINE WHEN SIGNAL FOR HIGH COOLANT TEMPERATURE, LOW OIL PRESSURE, OR OVER SPEED ARE RECEIVED. INDICATING LIGHTS TO SIGNAL: SWITCH 'OFF'-FLASHING RED, OVERCRANK-RED, EMERGENCY STOP-RED, HIGH WATER TEMPERATURE-RED, OVER SPEED-RED, LOW OIL PRESSURE-RED, HIGH BATTERY VOLTAGE-RED, AND LOW BATTERY VOLTAGE-RED. ALARM HORN WITH SILENCER SWITCH.

ACCESSORIES:
EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.

WASTELINE ENGINEERING, INC.
Texas Registered Engineering Firm #F-1669
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WATER SUPPLY PLANT #2
THE CITY OF CARL'S CORNER

ELECTRICAL SPECIFICATIONS

PROJECT NO.
21820

DRAWING NO.
E4