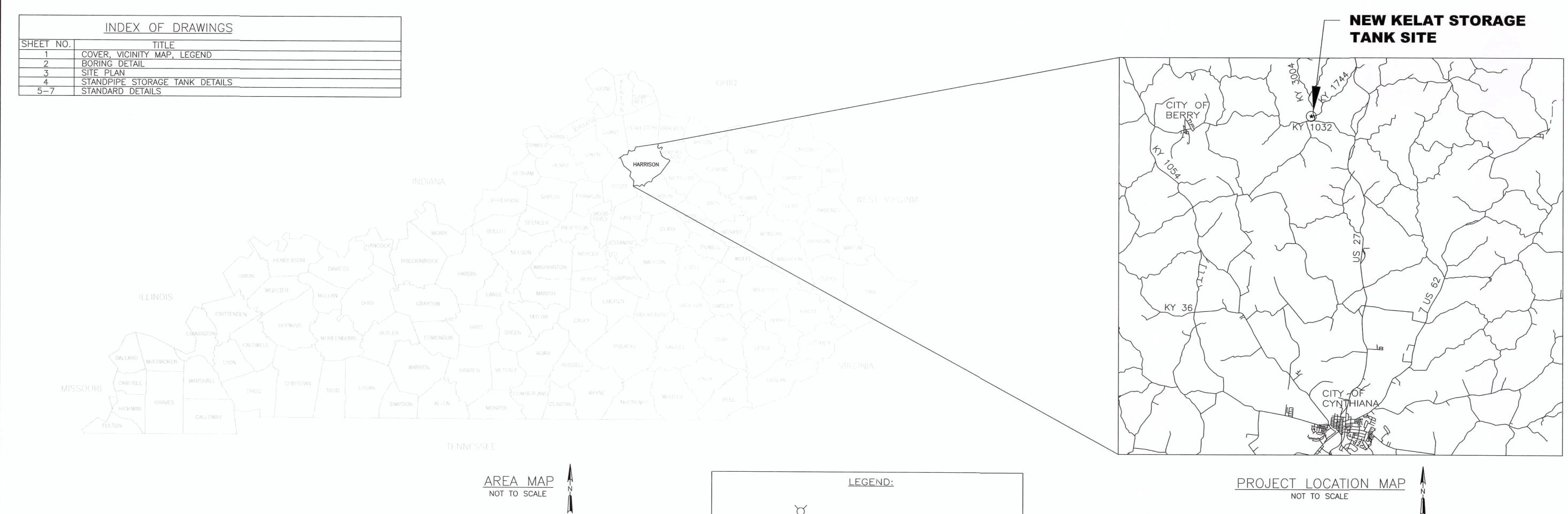
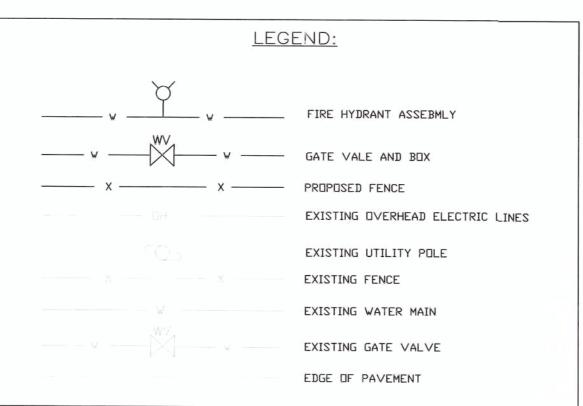
NEW KELAT STORAGE TANK FOR HARRISON COUNTY WATER ASSOCIATION HARRISON COUNTY, KENTUCKY JUNE 2017



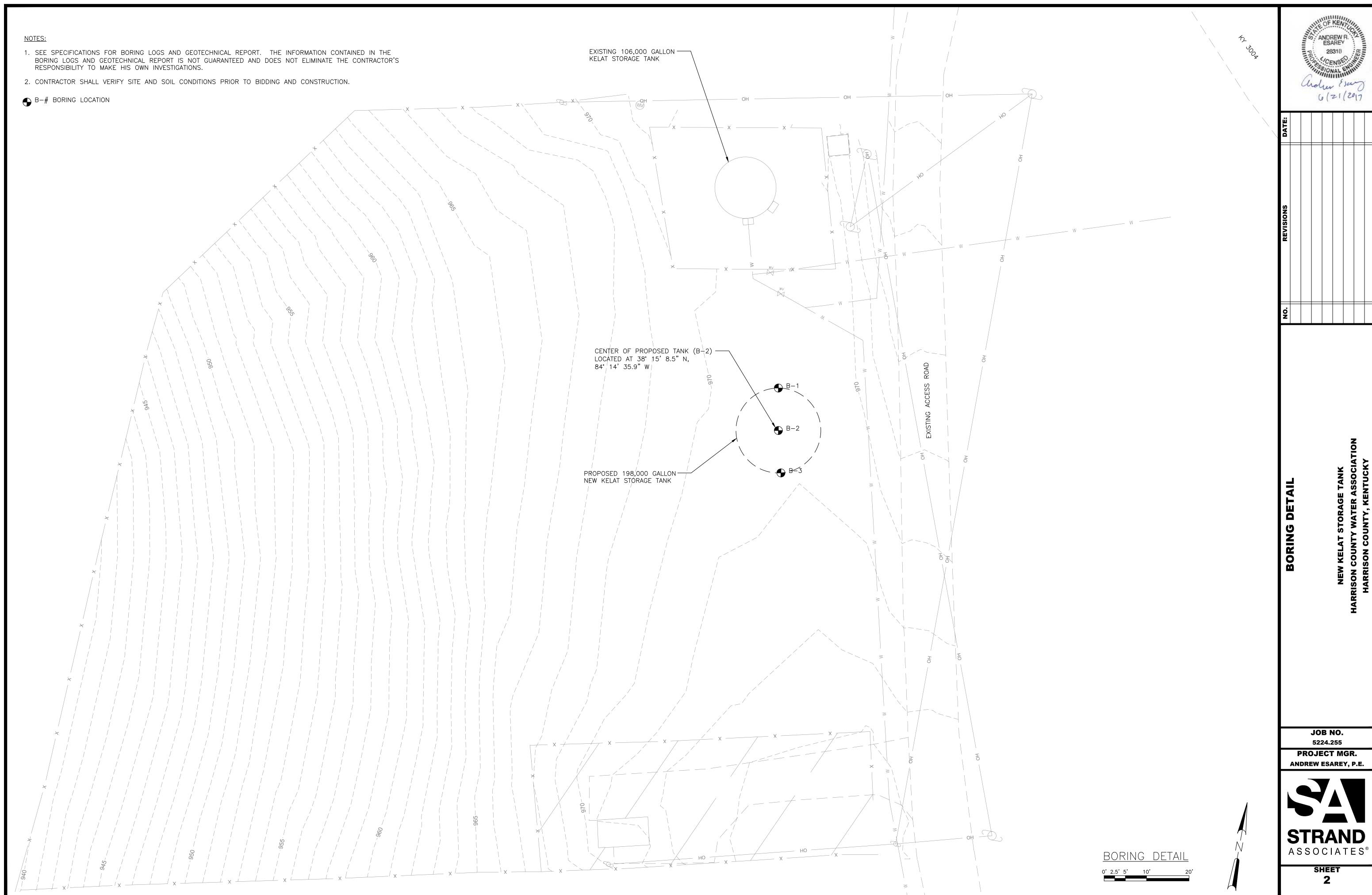
325 WEST MAIN STREET, SUITE 710 LOUISVILLE, KY 40202 502-583-7020 502-583-7026 FAX WWW.STRAND.COM

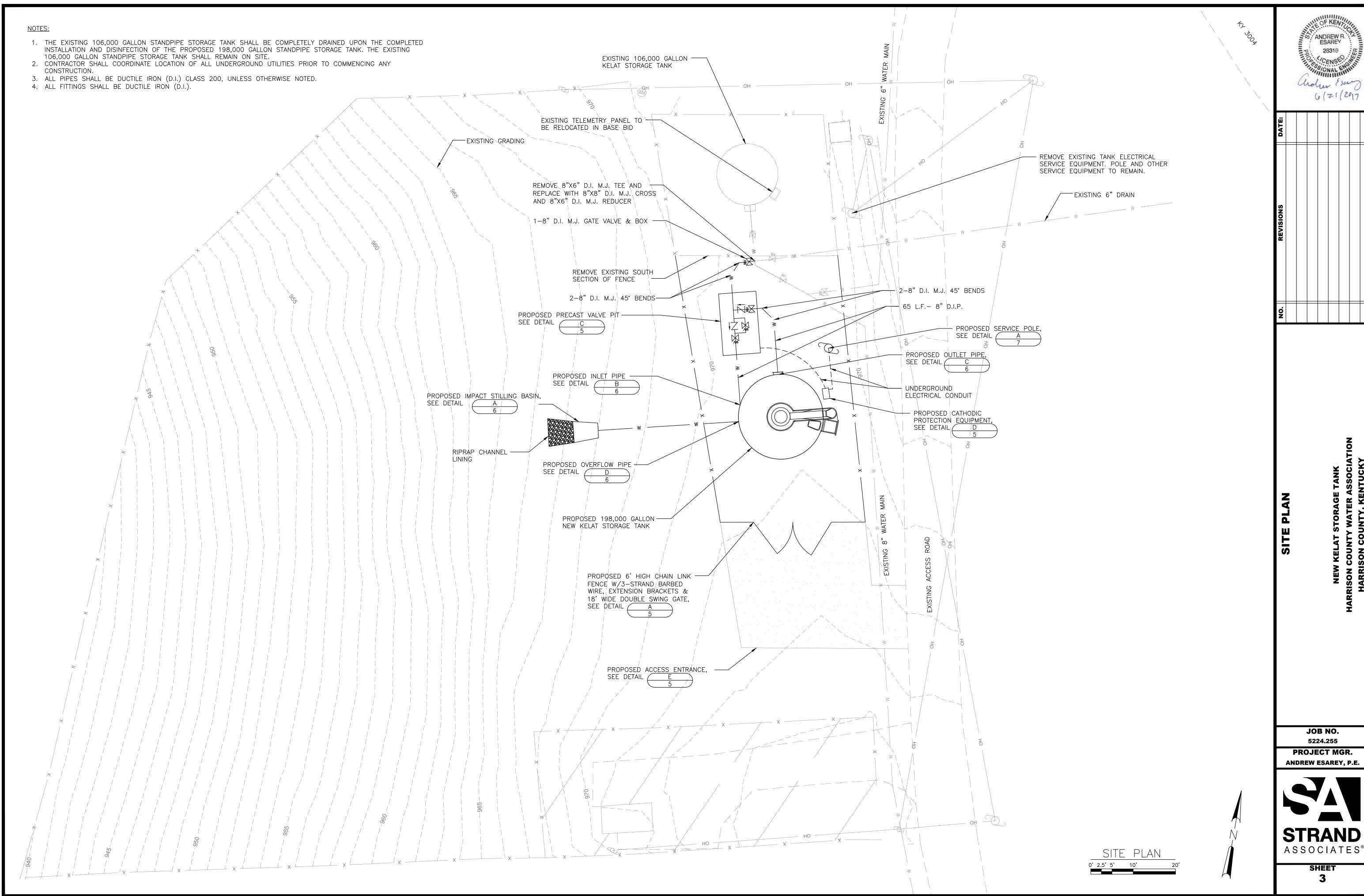
CONTRACT 1-2016





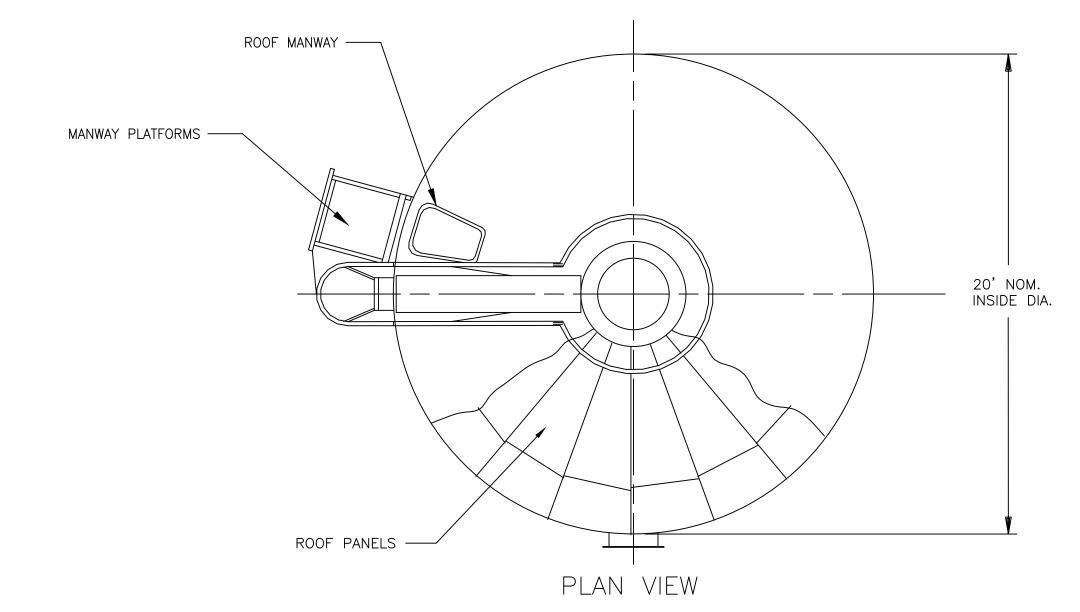


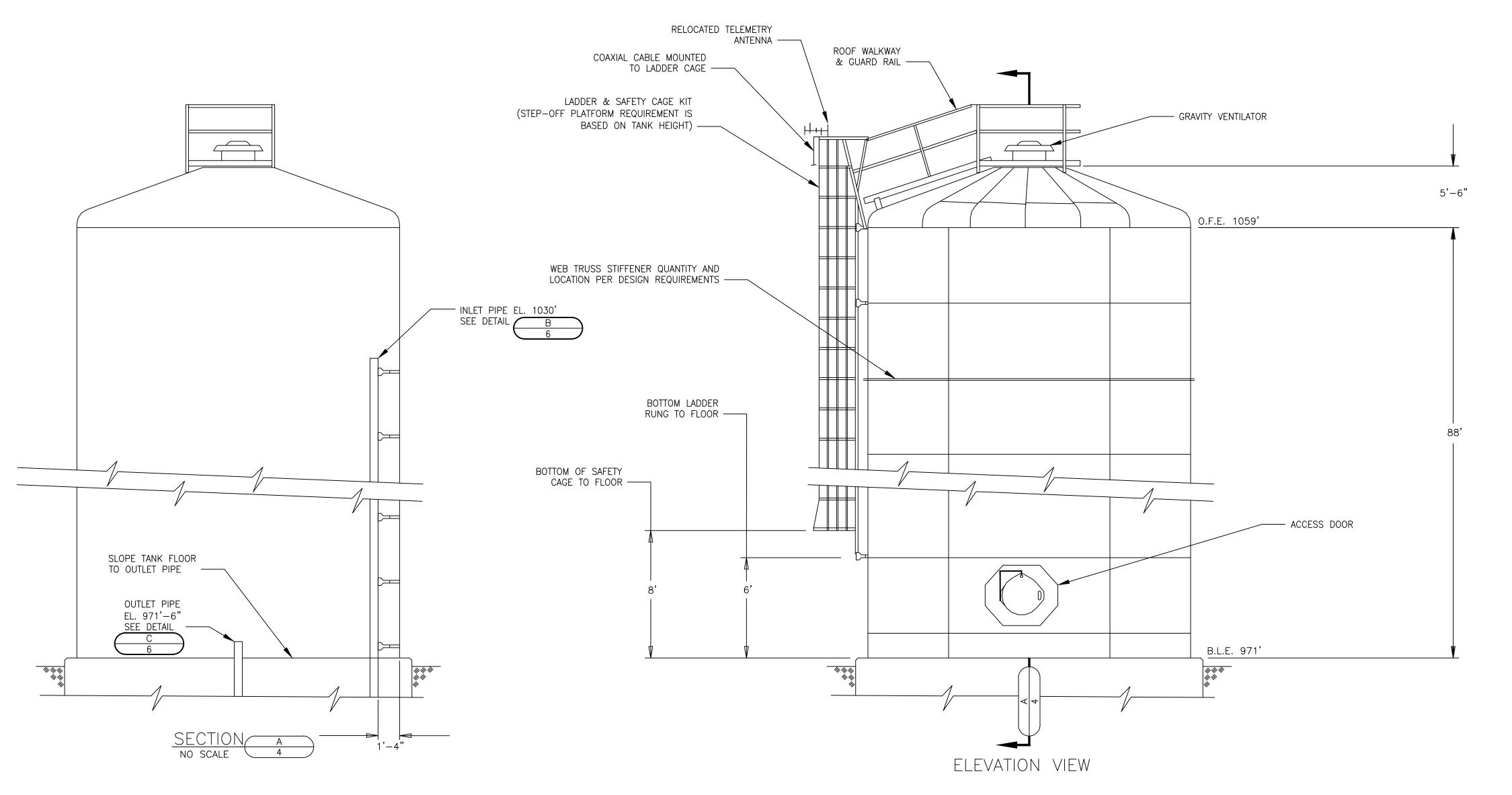


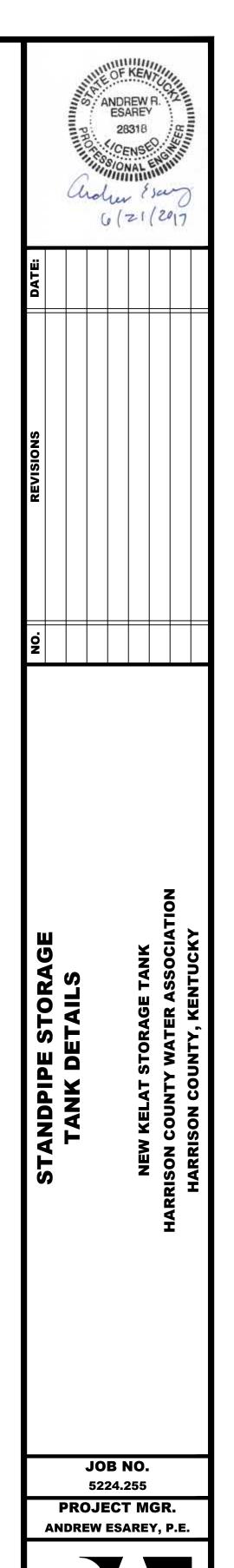


GENERAL NOTES:

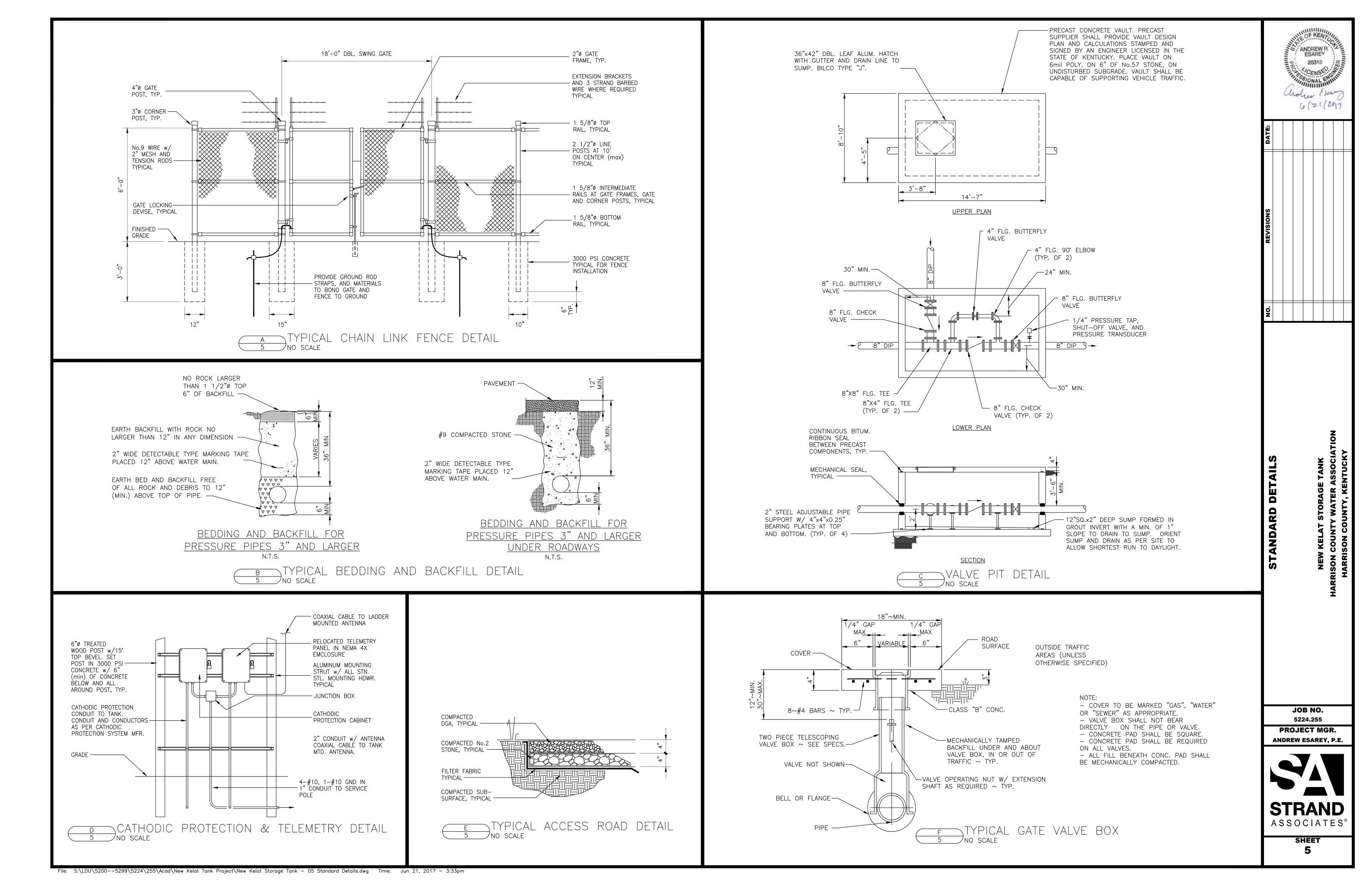
- 1. UNLESS OTHERWISE NOTED, SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. FITTINGS INCLUDE, BUT ARE NOT LIMITED TO, TEES, PLUGS, BENDS, REDUCERS, SLEEVES, COUPLINGS, ETC. THE CONTRACTOR SHALL INCLUDE THE COST OF FITTINGS IN THE LUMP SUM BID PRICE
- 2. FINAL LOCATIONS OF VALVES, BLOWOFFS, HYDRANTS, METERS, ETC ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE OWNER.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN HIS CONSTRUCTION LIMITS AND TO PROTECT SAME FROM ANY AND ALL DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY HIS CONSTRUCTION ACTIVITY UNDER THIS CONTRACT. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY AGENCIES AND COORDINATE WITH SAME TO PRECLUDE DAMAGE TO EXISTING UTILITIES.
- 4. THE CONTRACTOR SHALL USE ALL REASONABLE CARE DURING CONSTRUCTION UNDER THIS CONTRACT, TO PREVENT ANY AND ALL DAMAGE TO EXISTING UTILITIES, WHETHER INDICATED ON THE PLANS OR NOT, ANY DAMAGE TO SAID UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE CONTRACTOR SHALL CONFINE HIS CONSTRUCTION ACTIVITIES TO THE AREA WITHIN APPROPRIATE EASEMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- 6. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENT FOR THIS PROJECT.
- 7. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION INTERRUPTING OPERATION OF THE WATER SYSTEM.
- 8. ALL EXPOSED FINISHED SURFACES DISTURBED BY CONSTRUCTION OR DEMOLITION ACTIVITIES PERFORMED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE RESTORED TO MEET OR EXCEED THE CONDITION OF THE EXISTING ADJACENT SURFACE.
- 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY, SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 10. THE CONTRACTOR SHALL PERFORM ALL PRESSURE TESTING, STERILIZATION, AND FLUSHING OF THE PROPOSED TANK AND RELATED LINES PRIOR TO CONNECTION TO THE EXISTING
- 11. THE CONTRACTOR SHALL PROVIDE SLOPE TO 8-INCH OUTLET PIPE.
- 12. SEE TANK FOUNDATION AND TANK GENERAL NOTES SHEET 6.

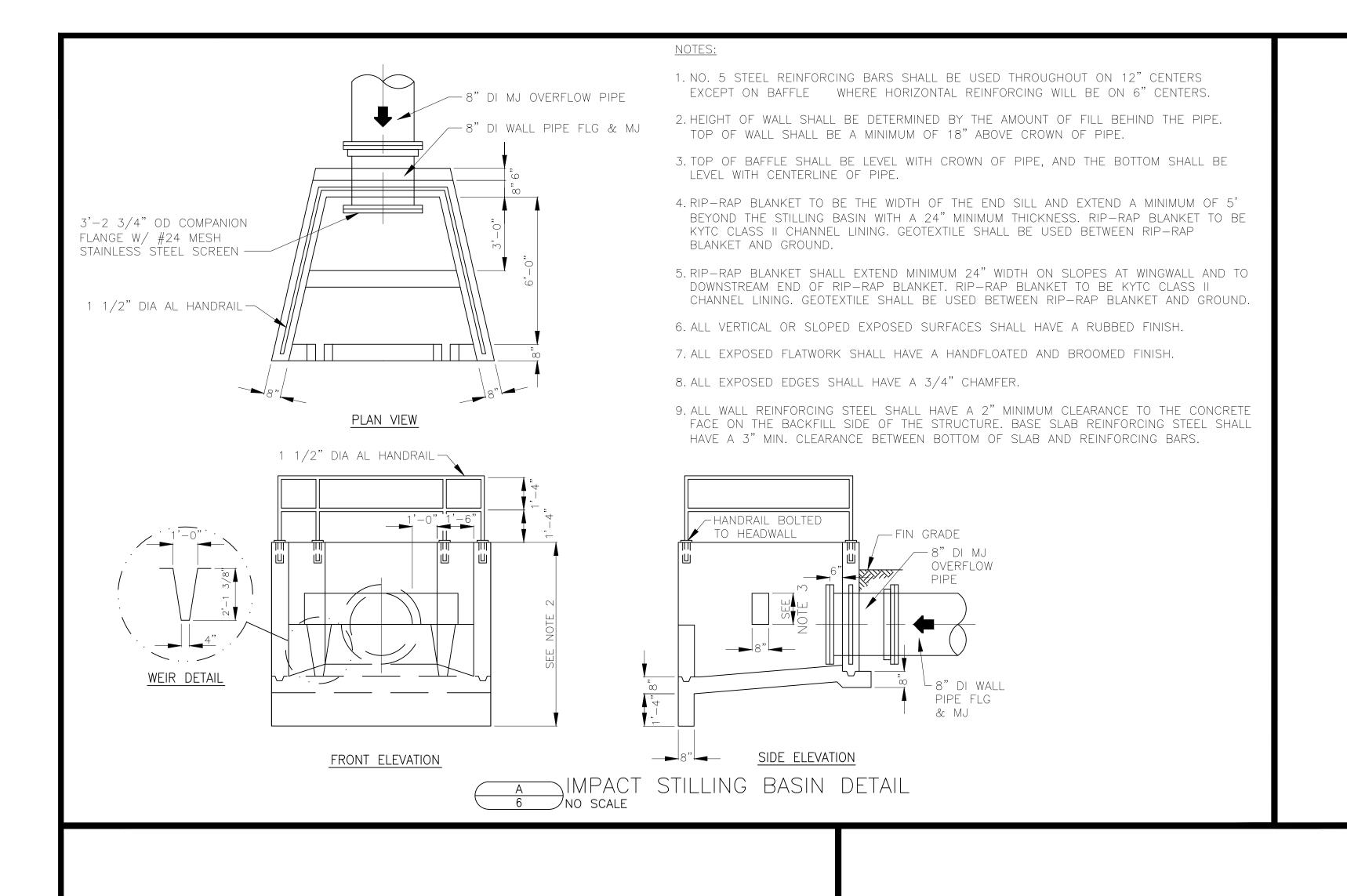






ASSOCIATES®





TANK FOUNDATION NOTES:

- 01 THE TANK MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TANK FOUNDATION.
- 02 THE TANK FOUNDATION SHALL BE BASED ON THE GEOTECHNICAL REPORT ASSOCIATED WITH THIS PROJECT. THE REPORT TITLED REPORT OF GEOTECHNICAL EXPLORATION KELAT GROUND STORAGE TANK, HARRISON COUNTY, KY, BY AMERICAN ENGINEERS, INC. AND DATED JULY 2016 SHOULD BE CONSULTED BY THE CONTRACTOR & TANK MANUFACTURER.
- 03 ALL SHOP DRAWINGS SHALL BEAR THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KENTUCKY. ALL STAMPED DOCUMENTS SHALL INCLUDE THE SIGNATURE OF THE ENGINEER STAMPING THE SUBMITTED DRAWINGS.
- 04 THE CONTRACTOR SHALL INCLUDE DESIGN AND LOAD CALCULATIONS WITH THE TANK FOUNDATION SHOP DRAWING SUBMITTAL.
- 05 THE TANK AND FOUNDATION SHALL BE DESIGNED FOR EARTHQUAKE LOADINGS AS PER THE ASSOCIATED GEOTECHNICAL REPORT RECOMENDATIONS.
- 06 THE TANK FOUNDATION SHALL BE DESIGNED FOR A NET ALLOWABLE BEARING PRESSURE AS PER THE ASSOCIATED GEOTECHNICAL REPORT RECOMENDATIONS.
- 07 ALL CONCRETE UTILIZED FOR THE TANK FOUNDATION SHALL HAVE A MINIMUM OF 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
- 08 ALL REINFORCING STEEL UTILIZED FOR THE TANK FOUNDATION SHALL CONFORM TO GRADE 60.
- 09 ALL EXCAVATION IS UNCLASSIFIED. COMPENSATION FOR ALL EXCAVATION SHALL BE INCLUDED IN THE LUMP SUM BID.

TANK GENERAL NOTES:

OVERFLOW ENTRANCE

LONG RADIUS

PIPE BRACKETS

@ 10 FT. ON CENTER (max)

8" STANDARD ALUMINUM PIPE OVERFLOW

45° BEND -

MECHANICALLY

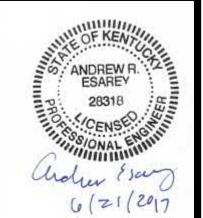
EXTERIOR OVERFLOW PIPE DETAIL

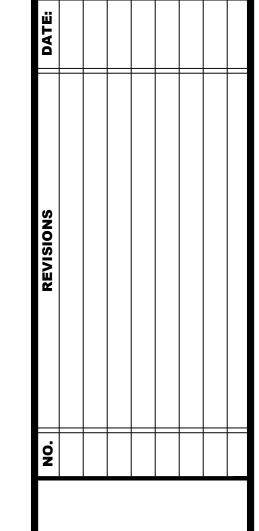
RESTRAINED

TRANSITION COUPLING

90° BEND -

- G-01 ANCHOR BOLT SIZE, STRENGTH, MATERIAL, PLACEMENT PROJECTION, EMBEDMENT, ETC. SHALL BE IN STRICT ACCORDANCE WITH THE TANK MANUFACTURER'S REQUIREMENTS.
- G-02 ALL PIPING SHALL BE RESTRAINED AS NECESSARY TO PREVENT ANY AND ALL MOVEMENT RESULTING FROM SYSTEM OPERATION. ALL PIPING SHALL BE SUPPORTED AS PER INDUSTRY STANDARD PRACTICE AND/OR THE SPECIFICATIONS WITH CORRECTLY SIZED HANGERS AND/OR SUPPORTS.
- G-03 REFER TO THE TANK SITE PLAN FOR ACTUAL ORIENTATION OF THE TANK, PIPING AND APPURTENANCES. THE DETAILS ON SOME SHEETS ARE SCHEMATIC ONLY AND DO NOT NECESSARLLY INDICATE ALL ITEMS IN THEIR CORRECT LOCATIONAL RELATIONSHIP.





JOB NO. 5224.255

PROJECT MGR. ANDREW ESAREY, P.E.

STRAND ASSOCIATES®

-SIDE OF TANK GRADE BENTONITE WATERSTOP ----8" D.I. OUTLET PIPE CONCRETE -ENCASEMENT STANDPIPE STORAGE TANK OULET PIPING DETAIL

8" PVC DR18 — PR. CL. 235 8" SLEEVE --SIDE OF TANK GRADE BENTONITE WATERSTOP -8" D.I. INLET PIPE CONCRETE ENCASEMENT STANDPIPE STORAGE TANK INLET PIPING DETAIL

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