BUREAU OF INDIAN AFFAIRS NAVAJO REGIONAL OFFICE

COVE DAY SCHOOL

VOLUME 1 OF 4

RED VALLEY, AZ 86544



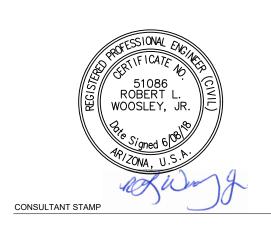
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NEW INTERMEDIATE CONTOUR





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Cove Day School

VOLUME 1 OF 4

DOI, BIA NRO

Highway 13 Red Valley, AZ 68544

June 8, 2018
Project No. 15-2200

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Civil and Phasing Title Sheet

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GENERAL NOTES

- 1. ALL DIMENSIONS SHOWN ARE IN ENGLISH UNITS, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING ELEVATIONS PRIOR TO START OF CONSTRUCTION.
- 2. MUTCD: ALL SIGNS AND CODING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR STREETS AND HIGHWAY, CURRENT EDITION, PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. THE MANUAL SHALL BE MADE PART OF THIS CONTRACT.
- 3. OSHA: ALL CONSTRUCTION PRACTICES AND PROCEDURES SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS ACT (OSHA), (TITLE 29, CODE OF FEDERAL REGULATIONS), PUBLISHED BY OSHA, DEPARTMENT OF LABOR.
- 4. DISTURBED AREAS: AREAS DISTURBED BY THE CONTRACTOR'S ACTIVITIES SHALL BE SEEDED, STRAWED AND/OR MULCHED & PROTECTED FROM EROSION PER THE SPECIFICATIONS.
- 5. EXISTING UTILITIES: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ANY AND ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OPERATIONS NEAR THEIR LOCATIONS. CONSTRUCTION WORK SHALL NOT INTERFERE WITH EXISTING UTILITIES. ANY DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONSTRUCTION OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. AND WILL BE REPARED OR REPLACED AT NO COST TO THE OWNER.
- 6. UNSUITABLE MATERIAL: THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL OR REMOVALS NOT IDENTIFIED FOR SALVAGE, IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION APPROVED BY THE CONTRACTING OFFICER.
- 7. EXISTING STRUCTURES: ALL EX. STRUCTURES, PIPES, UTILITIES, ETC. DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND UNLESS PLANS CALL FOR THAT ITEM TO BE DEMOLISHED, REPLACED OR RELOCATED. PRIOR TO STATING DEMOLITION OPERATIONS, ENGINEERING SURVEY(S) TO BE MADE, BY COMPETENT PERSON(S), OF THE STRUCTURES TO DETERMINE THE CONDITION OF THE FRAMING, FLOORS AND WALLS, AND THE POSSIBILITY OF UNPLANNED COLLAPSE OF ANY PORTION. THERE SHALL BE EVIDENCE IN WRITING THAT SUCH A SURVEY HAS BEEN PERFORMED. (29CFR1910.850(a)).
- 8. REMOVAL OF EXISTING STRUCTURES AND OBSTRUCTIONS: THE LOCATION OF THE CONTRACTOR'S STOCKPILE OF SALVAGEABLE MATERIALS IS SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.
- 9. EQUIPMENT MAINTENANCE: NO EQUIPMENT MAINTENANCE OR REFUELING SHALL BE CONDUCTED WITHIN 100 FEET OF A WATER COURSE OF THE UNITED STATES. LEAKING EQUIPMENT WILL NOT BE ACCEPTED ON THE PROJECT. SPILLED OIL OR FUEL WILL BE CONTRACTOR'S RESPONSIBILITY TO CLEANUP. THE CONTRACTOR SHALL PREPARE A SPILL PREVENTION, CONTROL AND COUNTERMEASURE (SPCC) PLAN AND SUBMIT TO THE OWNER FOR REVIEW/APPROVAL IF REFUELING OPERATIONS ARE CONDUCTED ON SITE.
- 10. MAINTAINING FLOW: CONTRACTOR SHALL MAINTAIN FLOW TO EXISTING WASTEWATER PLANT AT ALL TIMES. ANY PROPOSED INTERRUPTIONS TO PLANT OPERATION MUST BE COORDINATED WITH THE CONTRACTING OFFICER. 48 HOURS NOTICE MUST BE GIVEN PRIOR TO ANY FLOW INTERRUPTIONS. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEWAGE TREATMENT AS NEEDED IF FLOW IS INTERRUPTED.
- 11. DO NOT DISTURB EXISTING R/W MONUMENTS.
- 12. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR DISPOSAL OF TRASH AND/OR CONSTRUCTION DEBRIS AND UNSUITABLE EXCAVATION MATERIAL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT.
- THE CONTRACTOR SHALL READ AND MAKE CAREFUL EXAMINATION OF THE PLANS, SPECIFICATIONS, QUANTITIES AND MATERIAL ESTIMATES AND VISIT THE SITE OF THE PROPOSED CONSTRUCTION TO BECOME FAMILIAR WITH THE SITE CONDITIONS AND LIMITATIONS BEFORE MAKING A BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ERRORS RESULTING FROM THE FAILURE TO MAKE SUCH AN EXAMINATION. ANY INFORMATION DERIVED FROM THE MAPS, PLANS, SPECIFICATIONS, PROFILES, DRAWINGS OR FROM THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM ANY RISK OR FROM FULFILLING THE TERMS OF THE CONTRACT.
- 14. NO WORK SHALL BE PERFORMED OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS WITHOUT THE APPROVAL OF THE ENGINEER. NO WORK SHALL BE PERFORMED OUTSIDE THE DESIGNATED RIGHT—OF—WAY OR CONSTRUCTION EASEMENTS WITHOUT PRIOR APPROVAL FROM THE NAVAJO NATION AND CONSULTATION WITH BIA.
- 15. IF DURING CONSTRUCTION OPERATIONS ANY HUMAN REMAINS, FUNERARY OBJECTS, SACRED OBJECTS OR OBJECTS OF CULTURAL PATRIMONY AS DEFINED IN THE NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT (P.L. 101-601; STAT. 3048; 25 U.S.C. 3001) ARE DISCOVERED, THE CONTRACTOR SHALL STOP OPERATIONS IN THE IMMEDIATE AREA OF THE DISCOVERY, PROTECT THE REMAINS AND OBJECTS, AND IMMEDIATELY NOTIFY THE TRIBAL HISTORIC PRESERVATION OFFICE, AND CONTRACTING OFFICER OF THE DISCOVERY BY TELEPHONE AND WITH WRITTEN CONFIRMATION. THE CONTRACTOR SHALL CONTINUE TO PROTECT THE IMMEDIATE AREA OF THE DISCOVERY UNTIL NOTIFIED BY THE CONTRACTING OFFICER, IN CONSULTATION WITH TRIBAL OFFICIALS THAT OPERATIONS MAY RESUME.
- 16. CONTRACTOR SHALL PROVIDE NECESSARY WATER FOR CONSTRUCTION PURPOSES. CONTRACTOR MAY BE ABLE TO UTILIZE LOCAL WATER SUPPLY IF APPROVED BY CONTRACTING OFFICER. CONTRACTOR SHALL PROVIDE ANY NECESSARY METERING FOR THE USE OF ANY WATER AND SHALL PAY A RATE AGREED UPON BY THE CONTRACTING OFFICER. CONTRACTOR SHALL OBTAIN ANY PERMITS OR PAY ANY FEES REQUIRED BY THE NAVAJO NATION FOR THE USE OF ANY LOCALLY SOURCED WATER.
- 17. THE NAVAJO NATION EPA, DOMESTIC WASTEWATER PROGRAM REQUIRES AN APPLICATION FOR APPROVAL TO CONSTRUCT A DOMESTIC WASTEWATER SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THIS APPLICATION AND PAYING THE REQUIRED FEES FOR CONSTRUCTION. INFORMATION CAN BE OBTAINED AT www.navajopublicwater.org
- 18. THE NAVAJO NATION EPA, PUBLIC WATER SYSTEMS SUPERVISION PROGRAM REQUIRES AN APPLICATION FOR APPROVAL TO CONSTRUCT DRINKING WATER FACILITIES.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THIS APPLICATION AND PAYING THE REQUIRED FEES FOR CONSTRUCTION. INFORMATION CAN BE
 OBTAINED AT www.navajopublicwater.org
- 19. CONCRETE FOR SIDEWALKS, CURBS AND ROADWAYS SHALL BE CLASS A, 3,500 PSI MINIMUM 28-DAY COMPRESSIVE STRENGTH. ALL STRUCTURAL CONCRETE SHALL BE CLASS A, 4,000 PSI MINIMUM 28-DAY COMPRESSIVE STRENGTH.

GENERAL NOTES - UTILITIES

- 1. LOCAL UTILITY AUTHORITY IS THE BIA SHIPROCK AGENCY, NATAANI NEZ COMPLEX BUILDING, 2ND FLOOR, HIGHWAY 491 SOUTH, SHIPROCK, NM 87420, 505-368-3347.
- 2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH THE LOCAL UTILITY AUTHORITY. COORDINATION WITH THE NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) WILL BE REQUIRED FOR OFFSITE CONNECTION TO WATER AND ELECTRIC UTILITY SERVICES. NTUA STANDARD DETAILS WILL APPLY TO THESE ACTIVITIES.
- 3. THE CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY AUTHORITY OF INTENT TO BEGIN CONSTRUCTION AT LEAST TWO WORKING DAYS IN ADVANCE.
- 4. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS. THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THERFORE. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITES, AND EXISTING PIPELIES. THE CONTRACTOR IS URGED TO COMPLY WITH STATE AND TRIBAL SATUTES, PERTAINING TO THE LOCATION OF THESE LINES, IN PLANNING AND CONDUCTING EXCAVATION WORK.
- 5. CONTACT ARIZONA 811 PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

GENERAL NOTES - SEWER

- 1. UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL PERFORM PRESSURE AND OTHER TESTING OF THE SANITARY SEWER SYSTEM IN ACCORDANCE WITH THE LOCAL UTILITY AUTHORITY.
- 2. CONTRACTOR SHALL INCLUDE THE LOCATIONS OF THE SEWER LINES AND CLEANOUTS ON THE AS-BUILT DRAWINGS.
- 3. CONTRACTOR SHALL CONFORM TO NTUA STANDARD DETAILS AND SPECIFICATIONS UNLESS NOTED OTHERWISE.

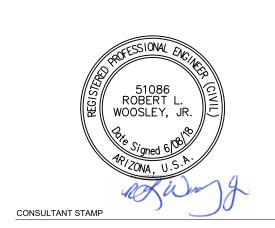
GENERAL NOTES - DEMOLITION

- 1. AFTER CONTRACTOR COMPLETES ASBESTOS ABATEMENT, THE BIA AGENCY STAFF WILL PERFORM VISUAL INSPECTIONS TO COMMENCE AFTER THE 3RD PARTY FINAL AIR CLEARANCE RESULTS HAVE BEEN PROVIDED.
- 2. DEMOLITION ACTIVITIES MAY OCCUR WHILE SCHOOL IS IN SESSION, THEREFORE, ALL DEMOLITION ACTIVITIES MUST BE ISOLATED BY CHAIN LINK FENCING. GATES SHALL BE INSTALLED AS REQUIRED FOR ACCESS TO THE WORK AREAS. ALL GATES SHALL BE PROPERLY SECURED DURING ALL DEMOLITION ACTIVITIES. SECURITY FENCING SHALL BE ROUTINELY INSPECTED AND REPAIRED AS NEEDED.
- 3. PRIOR TO STARTING DEMOLITION OPERATIONS, ENGINEERING SURVEY(S) TO BE MADE, BY COMPETENT PERSON(S), OF THE STRUCTURES TO DETERMINE THE CONDITION OF THE FRAMING, FLOORS AND WALLS, AND THE POSSIBILITY OF UNPLANNED COLLAPSE OF ANY PORTION. THERE SHALL BE EVIDENCE IN WRITING THAT SUCH A SURVEY HAS BEEN PERFORMED. (29CFR1910.850(a))





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Cove Day School

VOLUME 1 OF 4

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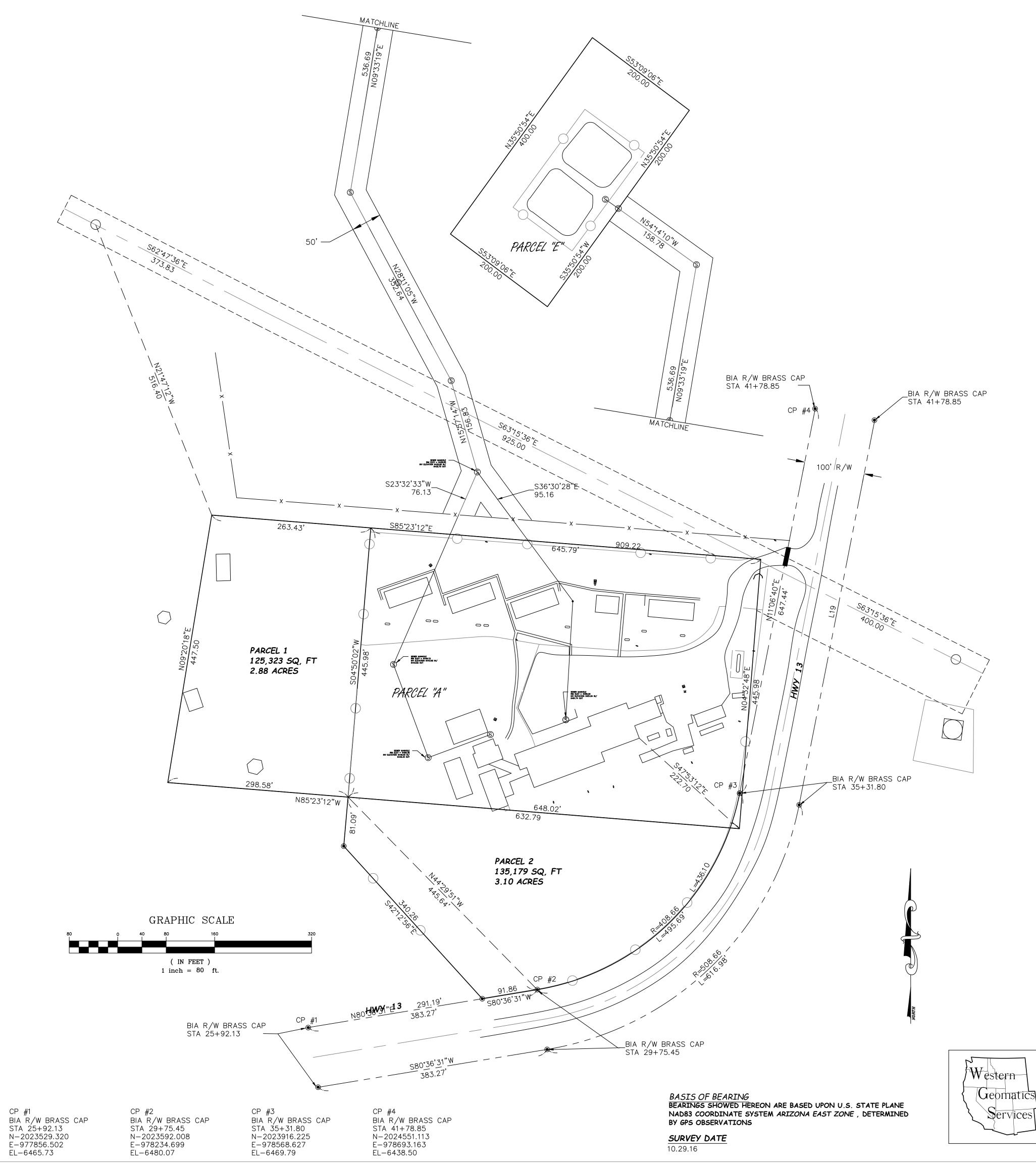
June 8, 2018
Project No. 15-2200

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REVISIONS
1 DSRM COMMENTS 6/8/18

General Notes

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COVE DAY SCHOOL EXISTING BOUNDARY

(PER 1959 LEGAL AND BOUNDARY)

A PORTION OF SECTIONS 3 & 4 OF TOWNSHIP 36 NORTH, RANGE 29 EAST AND A PORTION OF SECTION 34 OF TOWNSHIP 37 NORTH 29 EAST

OF THE GILA AND SALT RIVER BASE AND MERIDIAN APACHE COUNTY, ARIZONA

LEGAL DESCRIPTION OF PORTION WITHDRAWN FROM PARCEL A (PARCEL 1)

A PORTION OF THE LAND DESCRIBED AS PARCEL "A" COVE SCHOOL PROPERTY AS DESCRIBED IN PROPERTY DESCRIPTION NO. 35-8-3 DATED MARCH 31,1959, TO BE WITHDRAWN FROM THE COVE SCHOOL PROPERTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMENCING AT A BUREAU OF INDIAN AFFAIRS HIGHWAY 13 RIGHT OF WAY MONUMENT, STATION 29+75.45 ALONG THE NORTHERLY RIGHT OF WAY OF SAID HIGHWAY 13 THAT IS LOCATED IN THE NORTHEAST QUARTER OF SECTION 4, TOWNSHIP 36 NORTH, RANGE 29 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, FROM WHICH THE NORTHERLY BUREAU OF INDIAN AFFAIRS RIGHT OF WAY MONUMENT AT STATION 25+92.13 BEARS SOUTH 80 DEGREES 36 MINUTES 31 SECONDS WEST. A

THENCE FROM SAID POINT OF COMMENCEMENT, NORTH 44 DEGREES 29 MINUTES 51 SECONDS WEST, A DISTANCE OF 445.64 FEET TO A POINT ON THE SOUTH LINE OF SAID PARCEL "A" AND BEING THE POINT

"A", A DISTANCE OF 298.58 FEET TO THE SOUTHWESTERLY CORNER OF SAID PARCEL "A"; THENCE NORTH 9 DEGREES 20 MINUTES 18 SECONDS EAST, ALONG THE WESTERLY LINE OF SAID PARCEL "A", A DISTANCE OF 447.50 FEET TO THE NORTHWESTERLY CORNER OF SAID PARCEL "A"; THENCE SOUTH 85 DEGREES 23 MINUTES 12 SECONDS EAST, ALONG THE NORTHERLY LINE OF SAID PARCEL "A", A DISTANCE OF 263.43 FEET;

THENCE DEPARTING SAID NORTHERLY LINE, SOUTH 4 DEGREES 50 MINUTES 02 SECONDS WEST, A DISTANCE OF 445.98 FEET TO THE POINT OF BEGINNING.

AN AREA CONTAINING 125,323 SQ, FT OR 2.88 ACRES MORE OR LESS.

LEGAL DESCRIPTION OF PORTION SCHOOL USED OUTSIDE OF PARCEL A (PARCEL 2)

A PORTION OF THE LAND SITUATED IN THE NORTHEAST QUARTER OF SECTION 4, TOWNSHIP 36 NORTH, RANGE 29 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, APACHE COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A "BUREAU OF INDIAN AFFAIRS" HIGHWAY 13 RIGHT OF WAY MONUMENT AT STATION 25+92.13 ALONG THE NORTHERLY RIGHT OF WAY OF SAID HIGHWAY 13, FROM WHICH THE NORTHERLY "BUREAU OF INDIAN AFFAIRS" RIGHT OF WAY MONUMENT AT STATION 29+75.45 BEARS NORTH 80 DEGREES 36 MINUTES 31 SECONDS EAST, A DISTANCE OF 383.27 FEET;

THENCE FROM SAID POINT OF COMMENCEMENT, ALONG SAID NORTHERLY RIGHT OF WAY, NORTH 80 DEGREES 36 MINUTES 31 SECONDS EAST, A DISTANCE OF 291.19 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG SAID NORTHERLY RIGHT OF WAY, NORTH 80 DEGREES 36 MINUTES 31 SECONDS EAST, A DISTANCE OF 91.86 FEET TO THE "BUREAU OF INDIAN AFFAIRS" RIGHT OF WAY MONUMENT AT STATION 29+75.45, BEING A POINT OF CURVATURE OF A CURVE CONCAVE NORTWEST WITH A RADIUS OF 408.65 FEET; THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 61 DEGREES 08 MINUTE 37 SECONDS FOR A LENGTH OF 436.10 FEET TO A POINT ON THE SOUTH LINE OF PARCEL "A" COVE SCHOOL PROPERTY AS DESCRIBED IN PROPERTY DESCRIPTION NO. 35-8-3 DATED MARCH 31,1959, IN WHICH THE SOUTHEAST CORNER OF SAID PARCEL A BEARS SOUTH 85 DEGREES 23 MINUTES 12 SECONDS EAST AT A DISTANCE OF 15.23 FEET;

THENCE FROM SAID POINT, DEPARTING THE SAID NORTHERLY RIGHT OF WAY AT A NON TANGENT BEARING ALONG THE SOUTH LINE OF SAID PARCEL "A" NORTH 85 DEGREES 23 MINUTES 12 SECONDS WEST, A DISTANCE OF 632.79 FEET;

THENCE DEPARTING THE SOUTH LINE OF SAID PARCEL "A", SOUTH 04 DEGREES 50 MINUTES 02 SECONDS WEST, A DISTANCE OF 81.09 FEET; THENCE SOUTH 42 DEGREES 12 MINUTES 56 SECONDS EAST, A DISTANCE OF 340.26 FEET TO THE POINT

AN AREA CONTAINING 135,179 SQ, FT OR 3.10 ACRES MORE OR LESS.

SURVEYOR'S NOTES

2925 E RIGGS RD.

CHANDLER, AZ 85249

Suite 8-191

(480) 656-7912

1) HEREBY CERTIFY THAT THIS DRAWING IS BASED ON A SURVEY PERFORMED BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

2) THE SURVEYOR HAS OBTAINED NO INFORMATION RELATING TO, AND HAS NO KNOWLEDGE OF ANY PROPOSED RIGHT OF WAYS, EASEMENTS, OR DEDICATIONS THAT ANY MUNICIPALITY OR GOVERNMENTAL AGENCY MAY REQUIRE.

3) USE OF THIS INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY WESTERN GEOMATICS SERVICES. WESTERN GEOMATICS SERVICES SHALL HAVE NO LIABILITY FOR ANY SUCH UNAUTHORIZED USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

4) A TITLE REPORT WAS NOT PROVIDED, SURVEY IS BASED UPON PROVIDED DOCUMENTATION AND FIELD EVIDENCE TO ESTABLISH BOUNDARY.



| 11.24.16 | SUBMITTAL BY CHK APE **REVISIONS** DATE WGS6223 SCALE AS SHOWN



HERITAGE ENGINEERING, LLC
603 North Shore
642 South Fourth



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Cove Day School

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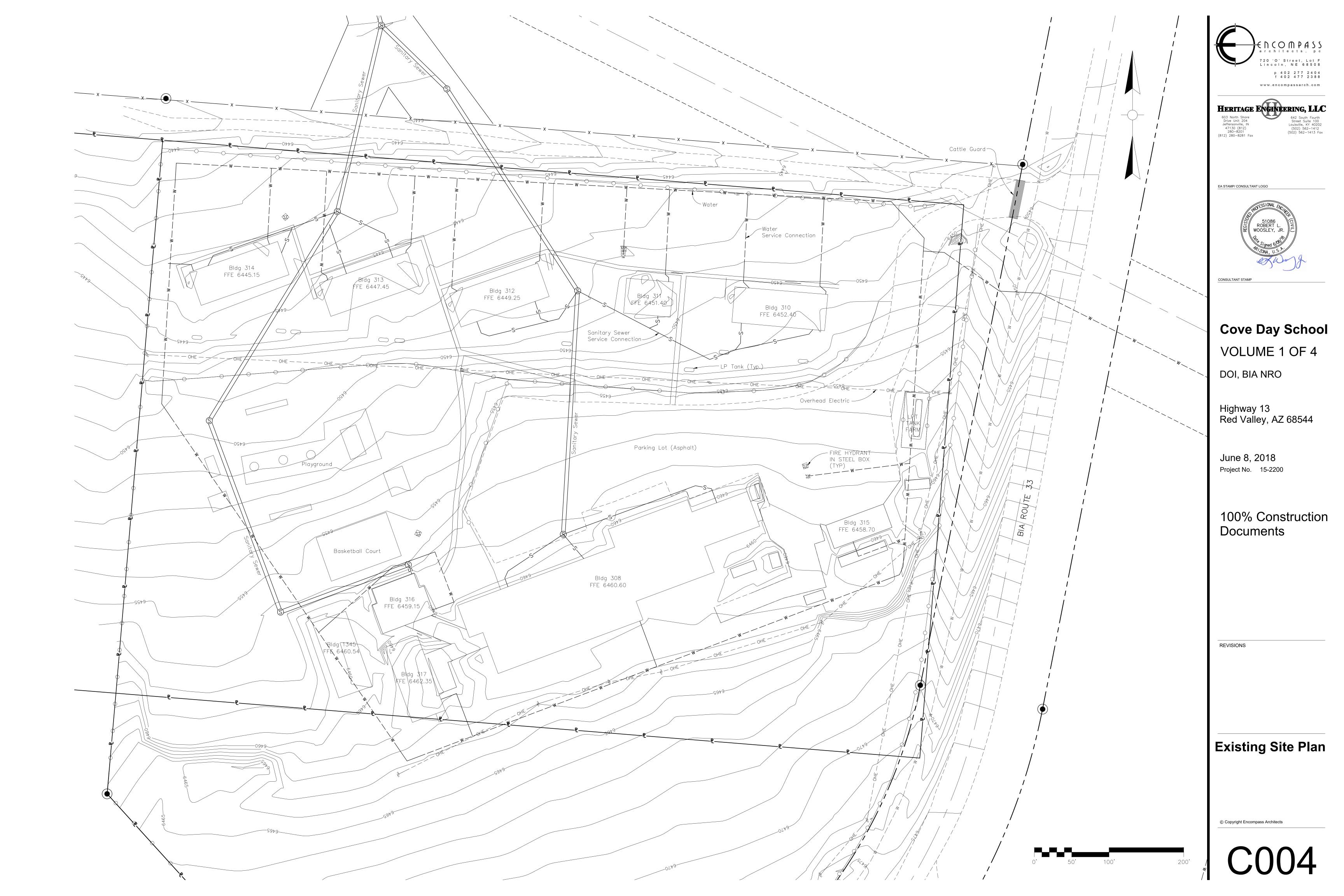
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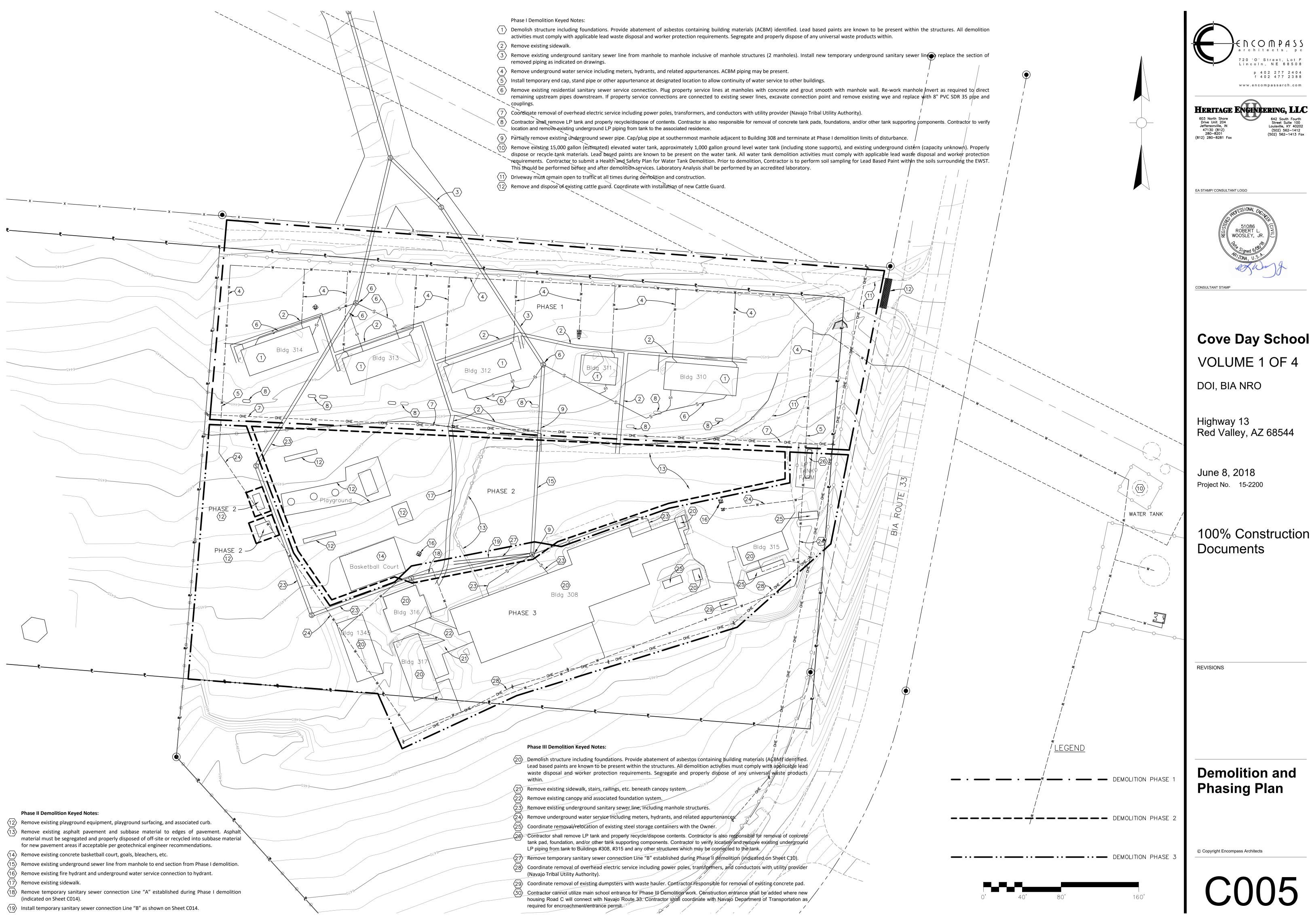
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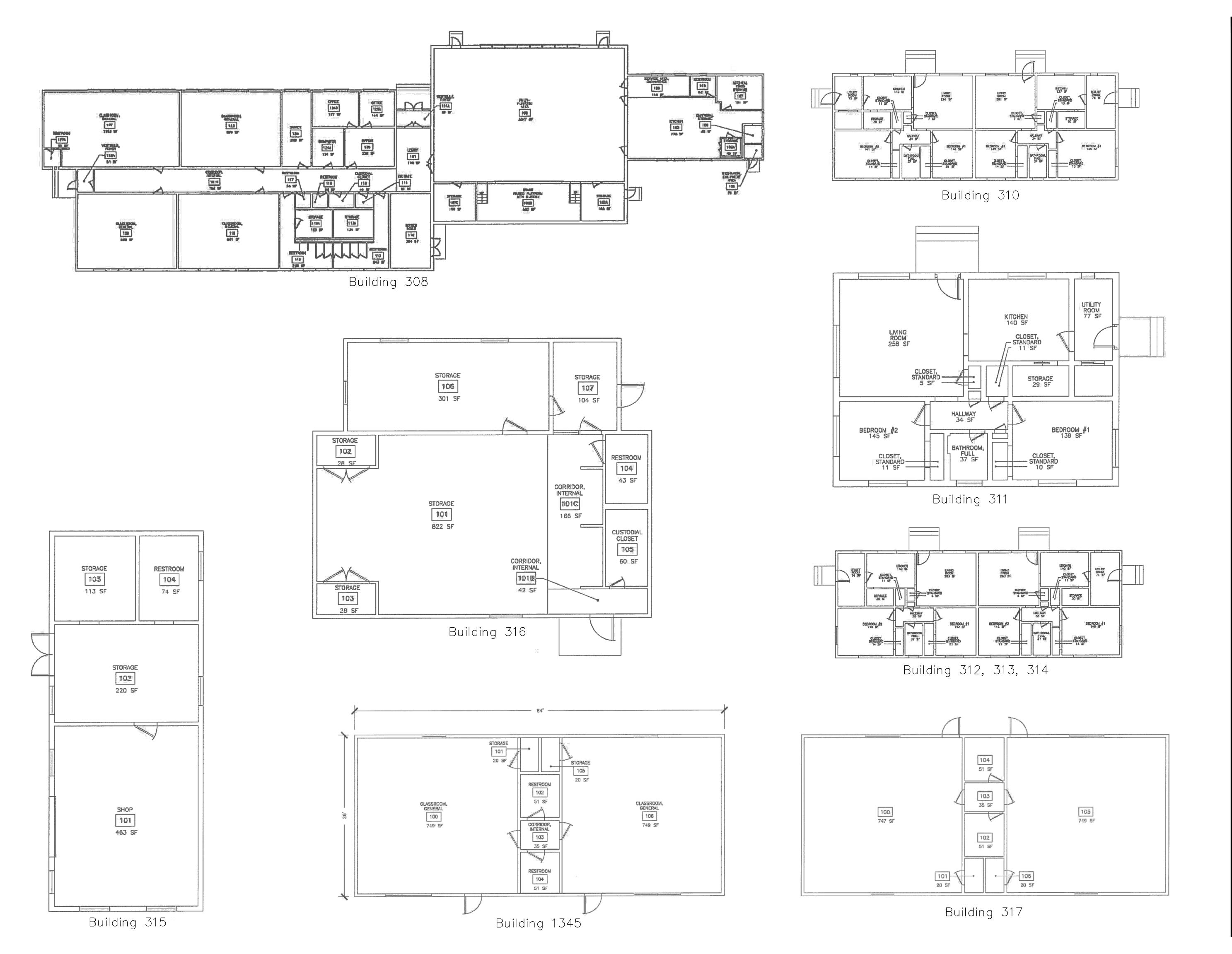
Existing Survey

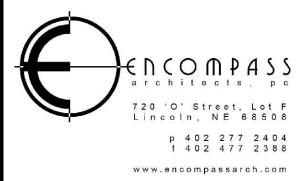


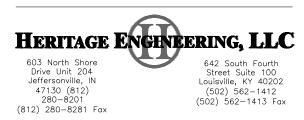


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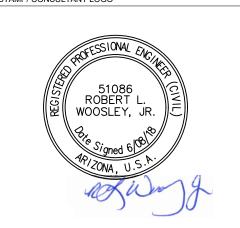
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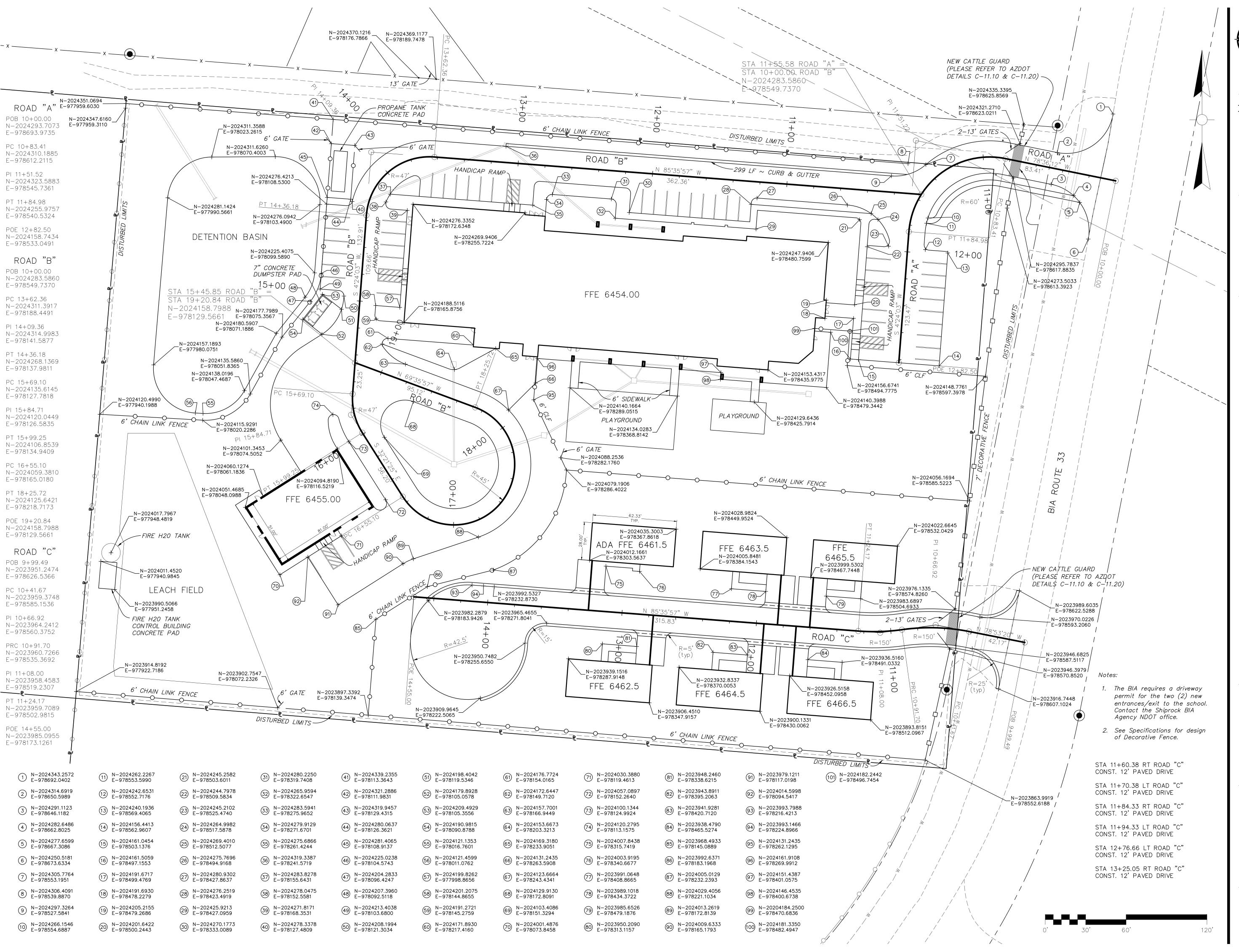
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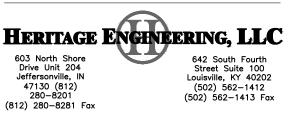
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Demolition - Existing Building Floor Plans

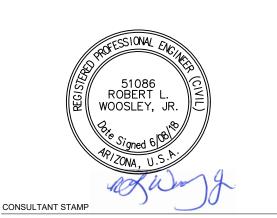
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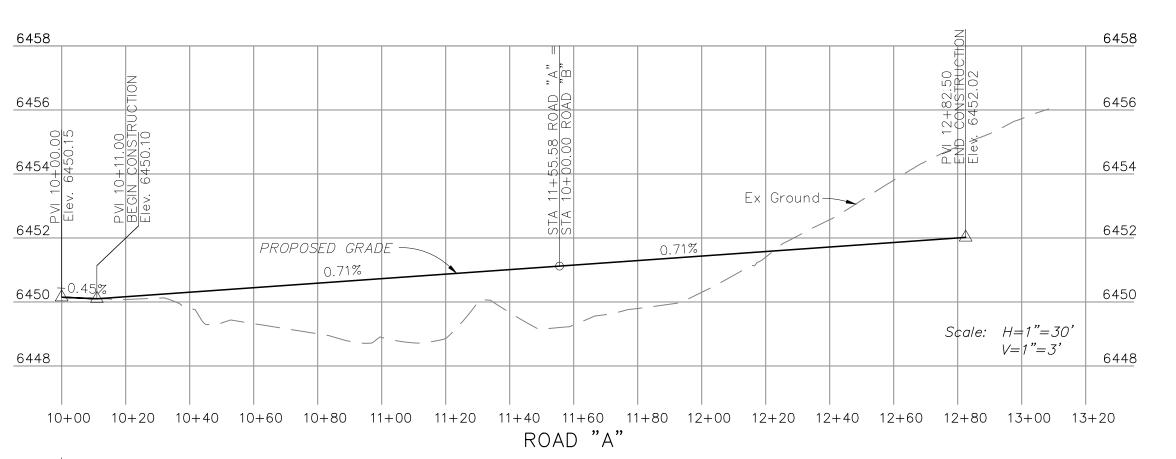
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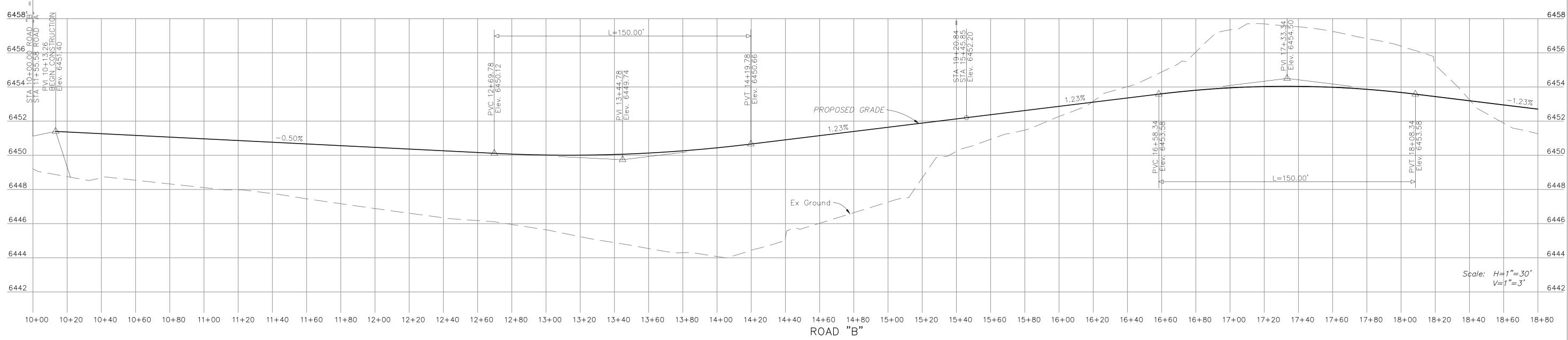
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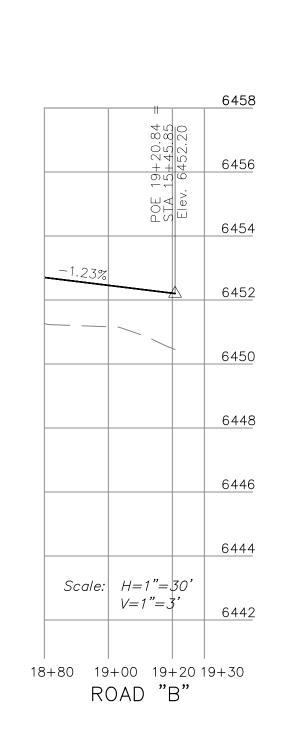
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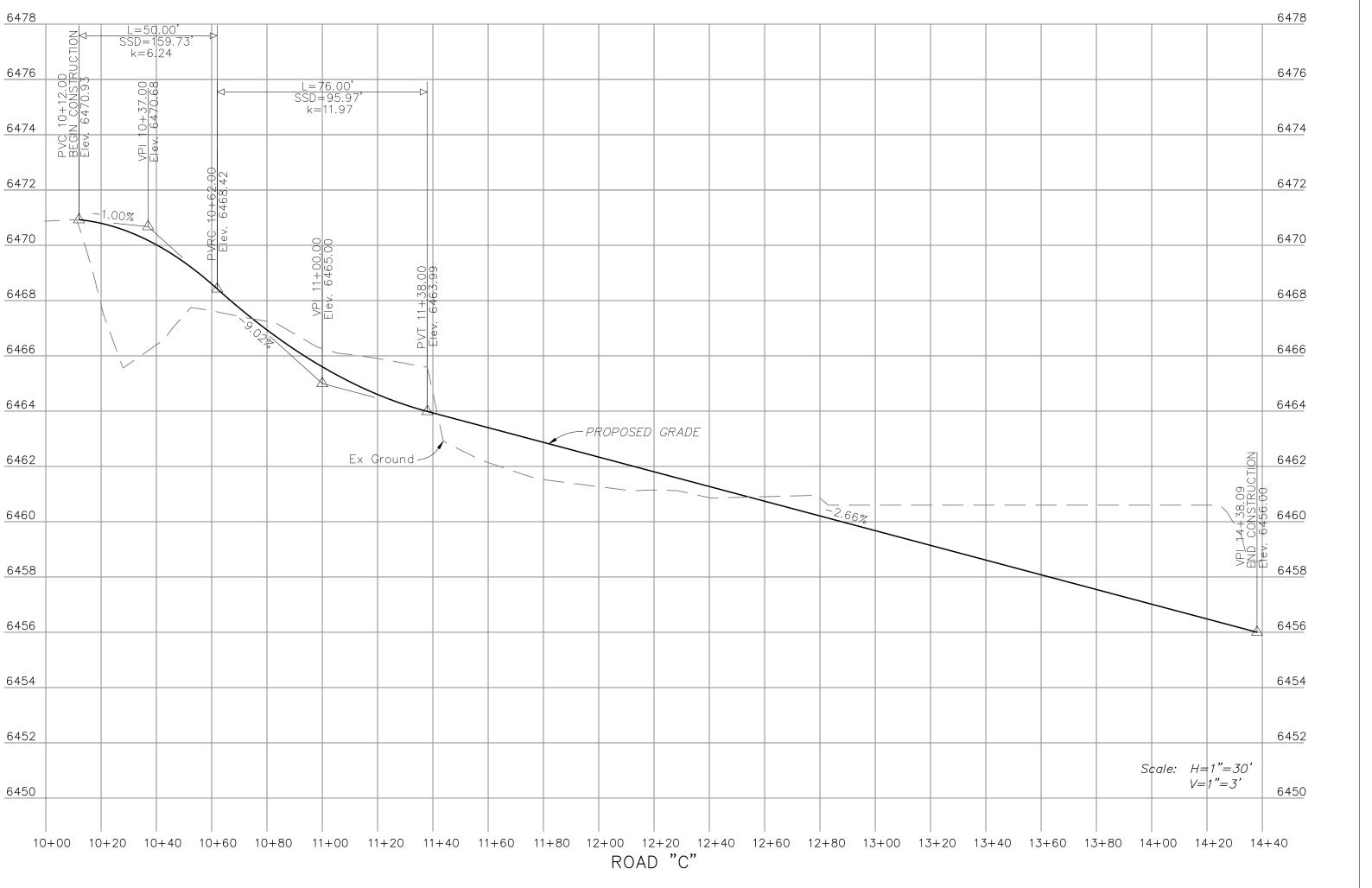
Proposed Site Plan

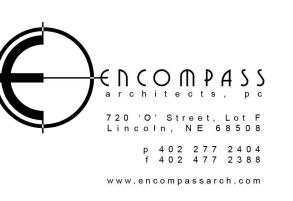
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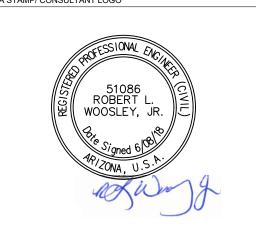












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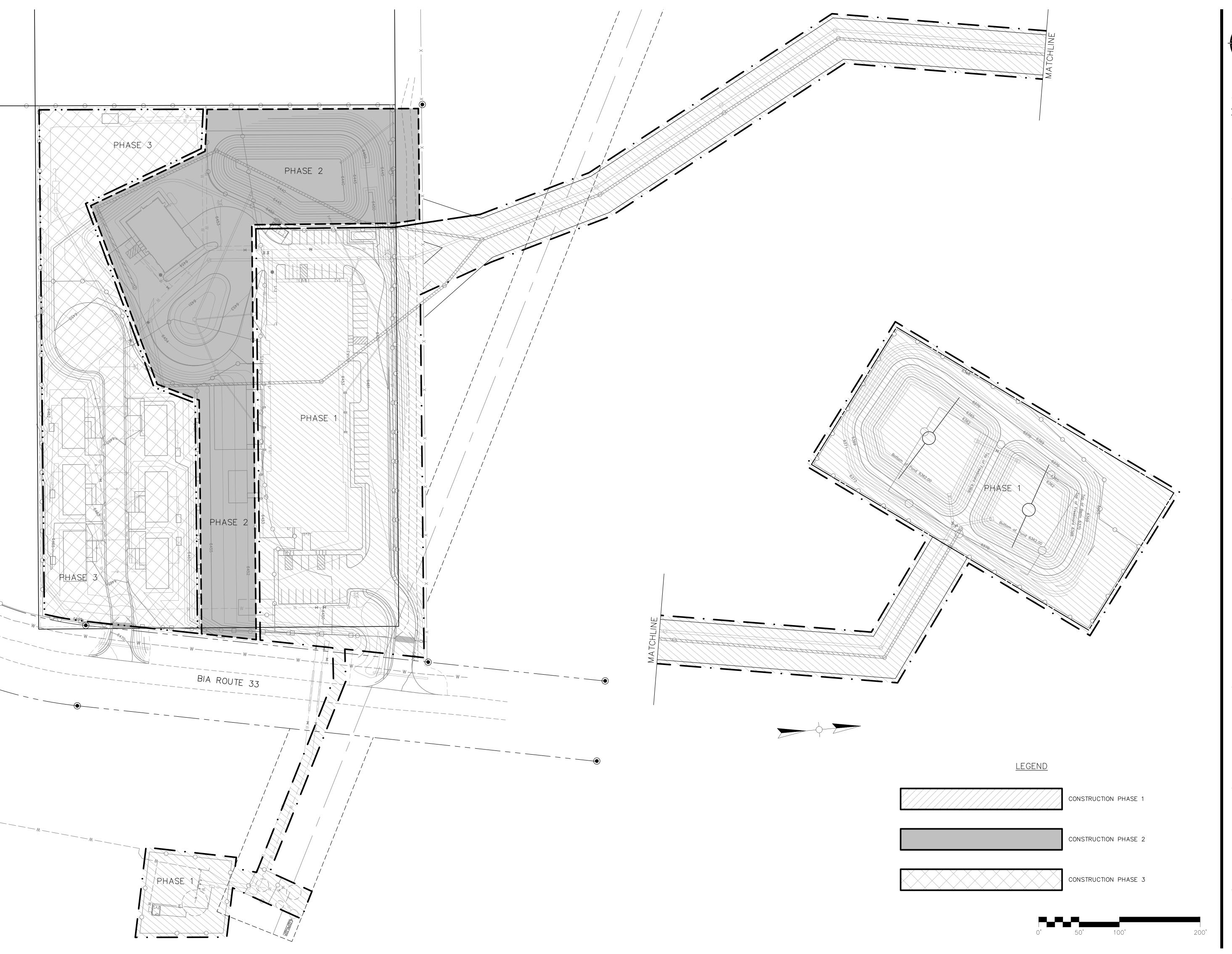
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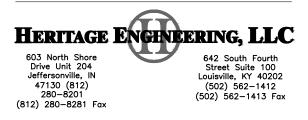
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Proposed Road Profiles

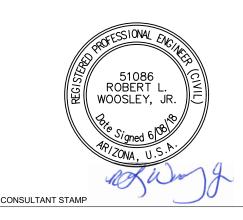
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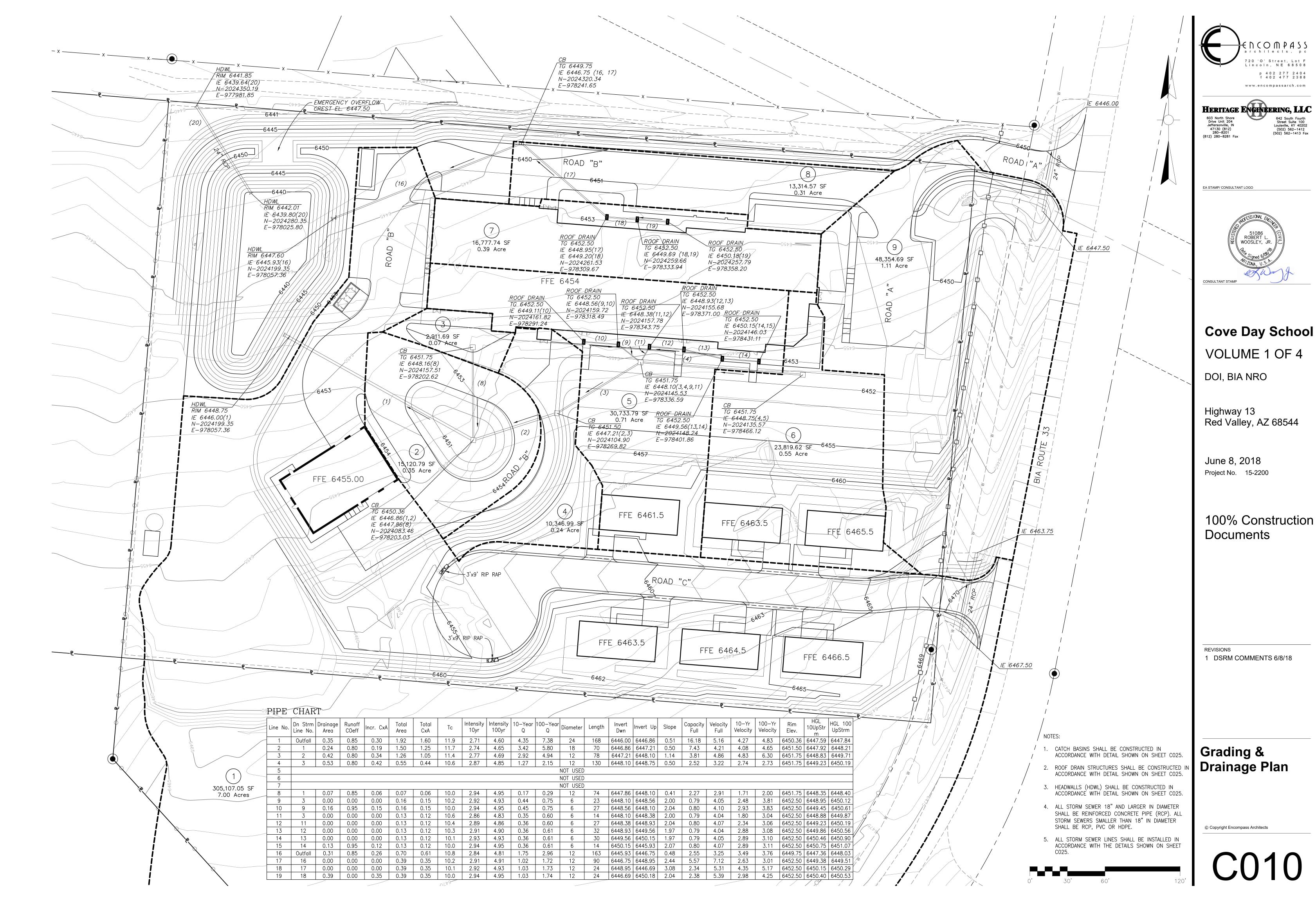
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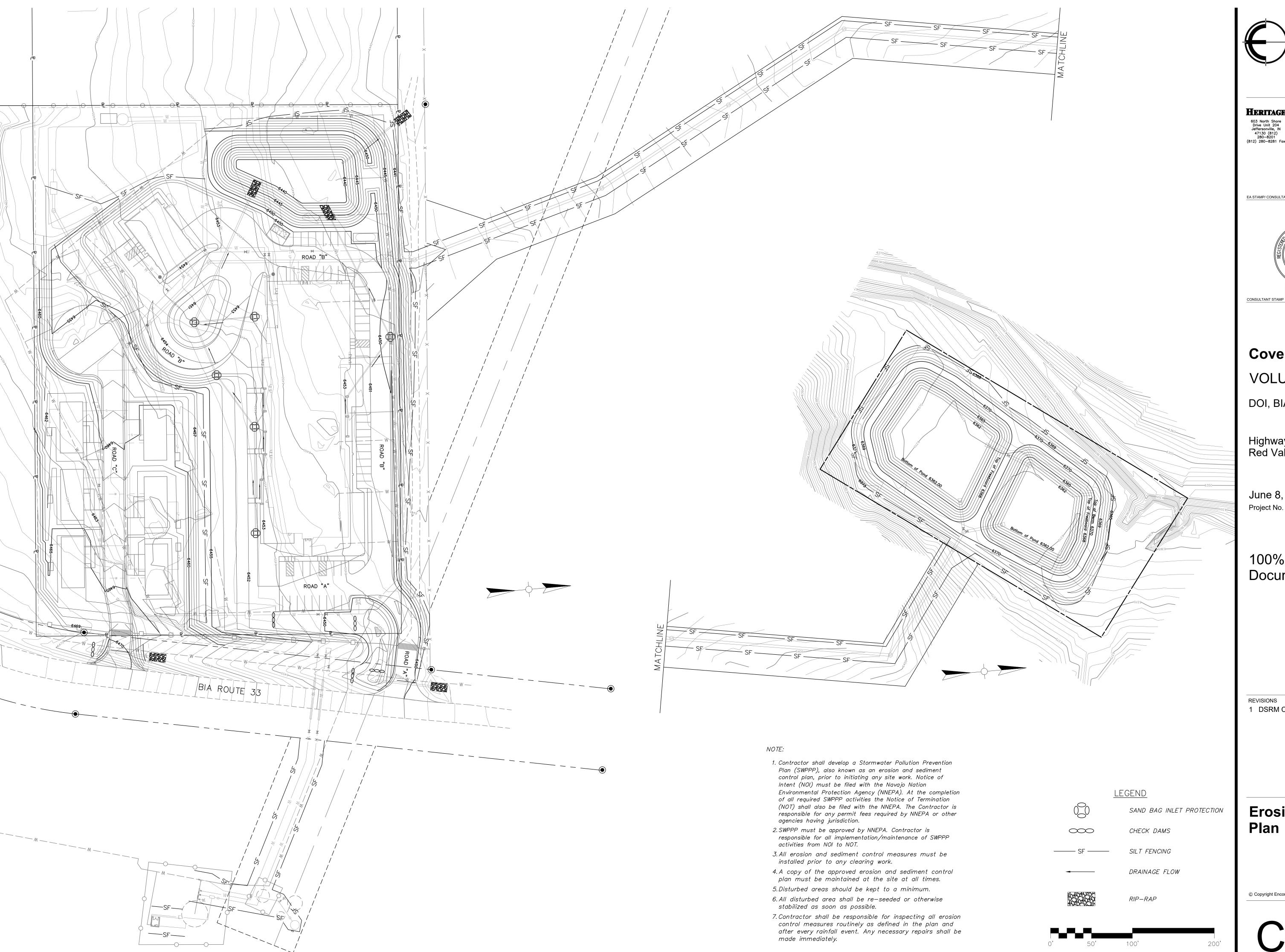
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Construction Phasing Plan

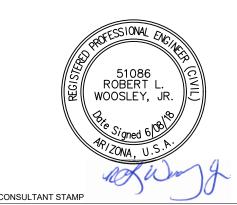
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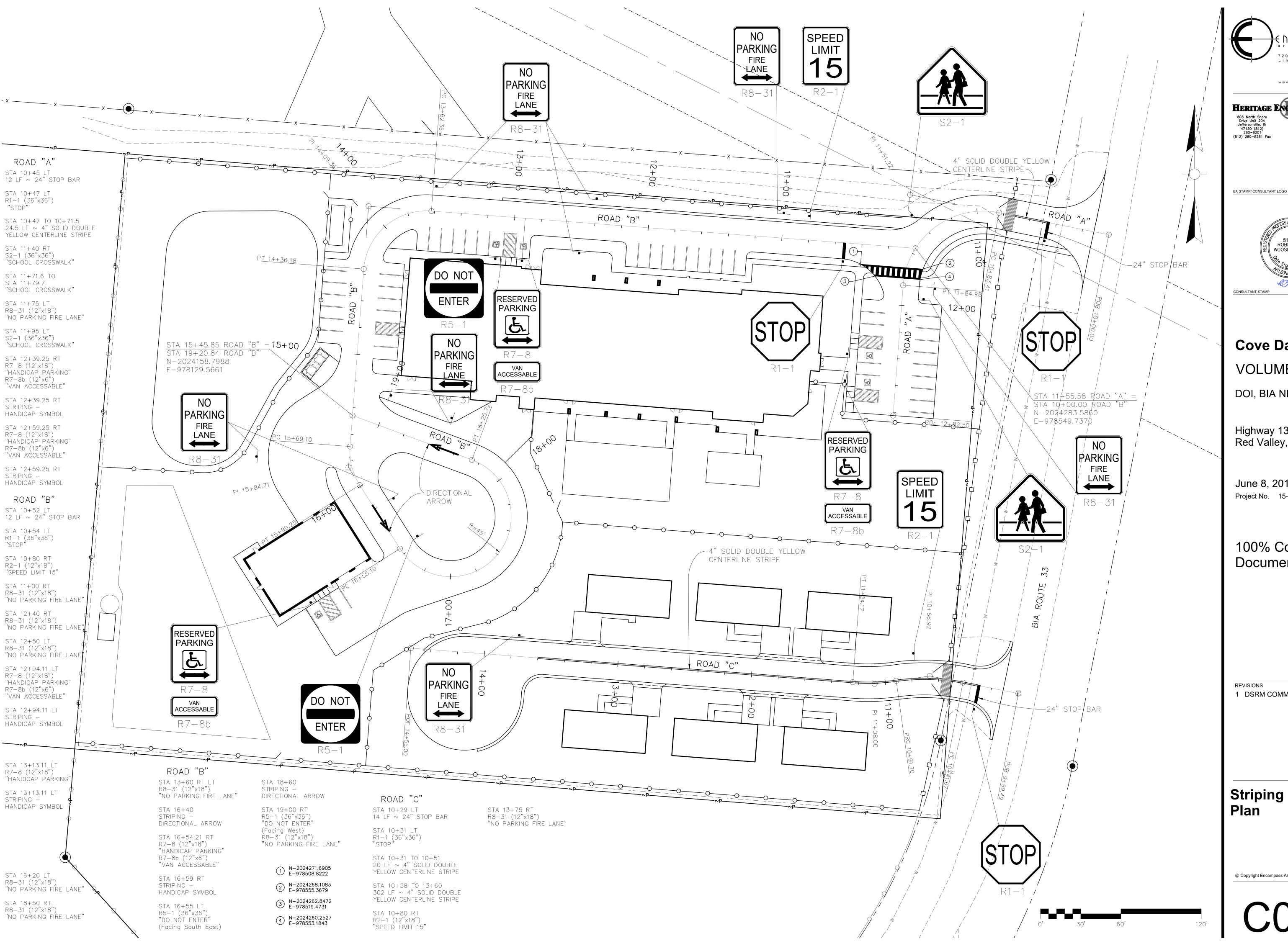
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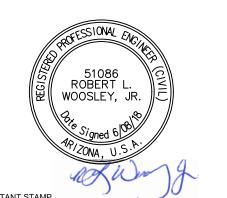
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Erosion Control



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Striping & Signing

WATER STORAGE TANK MIXING SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope: 1. Contractor shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish, install, calibrate and place into satisfactory operation one potable water mixing system for mixing water in the 75,000 Elevated Storage Tank located at Cove Day School in Red Valley, Arizona.
- 2. The Contract Documents illustrate and specify functional and general construction requirements a water mixing system for a water storage tank and do not necessarily show or specify all components, wiring, piping and accessories required to make a completely integrated system. Contractor shall provide all components, piping, wiring, accessories and labor required for a complete, workable and integrated system.
- B. Coordination: Coordinate the installation of all items specified herein and required to ensure the complete and proper interfacing of all the components and systems.

1.02 QUALITY ASSURANCE

- A. Acceptable Manufacturers:
- 1. Furnish water mixer system equal to model ETM-2002 mixing system as manufactured by Pulsair Systems, Inc. Represented by DW Squared. Phone 371-410-9078.
- B. Manufacturer's Responsibilities and Services:
- 1. Design and manufacture the potable water mixing equipment for a standpipe water storage tank shall be a package kit in accordance with the applicable general design requirements and the detailed specifications herein.
- 2. Field supervision, inspection, start-up and training in accordance with the requirements of these specifications
- 3. Equipment supplier shall provide a one-day startup & inspection on the air mixing system and air compressor once the system has been installed, wired and plumbed.

1.03 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Comply with the requirements of these specifications.
- B. Potable water mixing equipment shall not be delivered to the site until all product information and system shop drawings have been approved.

1.04 SUBMITTALS

A. Comply with the requirements of these specifications.

PART 2 - PRODUCTS

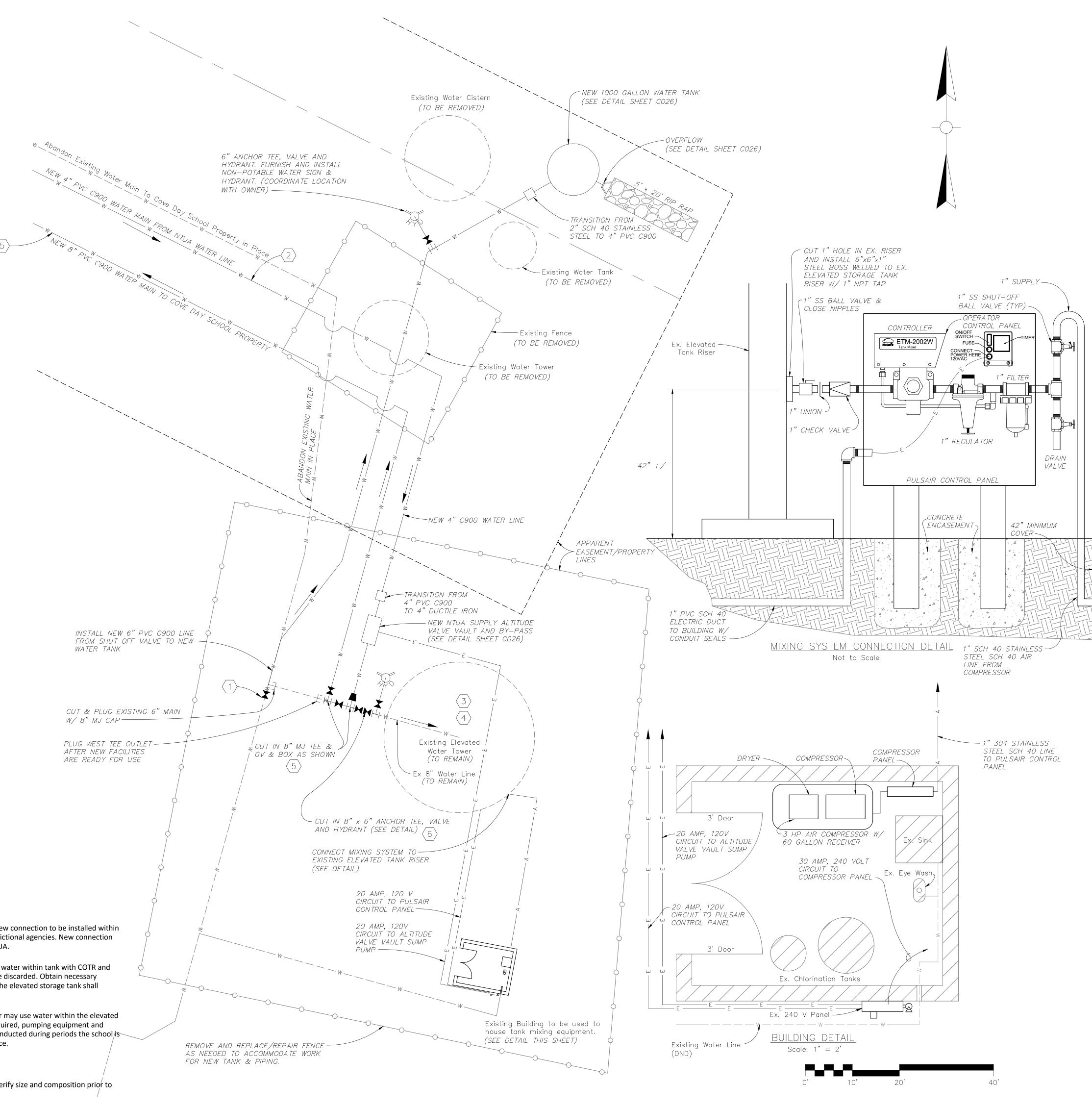
2.01 Potable Water Mixing System

- A. General: Potable water mixing system for a standpipe water storage tank shall be a package kit engineered mixing system for a single water storage tank.
- B. Required features and components for potable water mixing system:
- 1. Type: sequentially injection of clean compressed air into water storage tank
- 2. Mixing of water to be accomplished with no moving parts
- 3. One-inch (1") air injection valve 4. One (1) pre-plumbed NEMA 4X rated stainless steel secondary valve enclosure
- 5. Two (2) stainless steel check valves 1" diameter
- 6. One (1) air compressor package
 - 3 HP 100% oil-free scroll pump compressor with ISO 8573-1:2010 Class O
 - rating for oil free content • Integrated 60-gallon air receiver with FDA approved internal tank liner meeting 21 CFR
 - 175.300 requirement
 - Integrated & pre-plumbed refrigerated air dryer Pre-wired for single electrical hookup
- 7. Installation drawings and instructions
- 8. Operation and maintenance instructions
- 9. One (1) day onsite startup of air compressor and Pulsair mixer
- C. Required features for the water mixing system for water tank:
- 1. The mixing system shall be designed to operate the tank in an adjustable continuous mode.
- 2. Operator shall have the ability to manually adjust the individual settings for the timing functions (speed) and air pressure (power) parameters on the mixer.
- 3. Pulse rate shall be adjustable by the operator at any time during operation of mixing system. 4. Injection pressure of air shall be set by means of a pressure regulator and shall be adjustable
- at any time. Injection pressure shall be variable between 1 psi and maximum available line air pressure.
- 5. Power for Pulsair mixer: 110 V ± 10 %, 60 Hz.
- 6. Enclosure housing the controller shall be NEMA 4X stainless steel.
- D. Product shall be equal Pulsair Systems, Inc ETM-2002. water mixing system or equal.

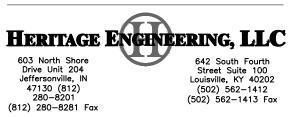
PART 3 - EXECUTION

3.01 INSTALLATION

- A. Contractor shall install the engineered kit and furnish the services of qualified factory-trained servicemen to startup and approve the installation of the instrumentation and control system
- B. Install each item in accordance with Manufacturer's recommendations and in accordance with the Contract Documents. All equipment that requires access for periodic calibration or maintenance shall be mounted so they are accessible while standing on the floor.
- C. All items shall be mounted and anchored using stainless steel hardware unless otherwise noted. E. All instruments shall be rigidly secured to walls, stands or brackets as required by the
- Manufacturer and as shown. F. Conform to all applicable provisions of the NEMA standards, NEC and local, State and Federal
- codes when installing the equipment and interconnecting wiring. G. Provide power to the unit and 4-20mA signals to the SCADA panel for reporting operational status of compressor component of mixing equipment.
- **ELEVATED WATER TANK KEYED NOTES:**
- 1 \rightarrow Install shutoff valve on existing water supply line to school site from artesian water source.
- $\langle \, 2 \, \rangle$ Coordinate with water utility provider and install new connection to existing 4" NTUA service line. New connection to be installed within existing easement and right-of-way using jack and bore method unless approved otherwise by jurisdictional agencies. New connection to be encased in steel per NTUA. Contractor to obtain all permits and entry rights as required by NTUA.
- (3) Drain, clean and disinfect existing 75,000-gallon elevated water storage tank. Coordinate removal of water within tank with COTR and School Personnel to minimize loss of water and maximize consumptive use of water to potentially be discarded. Obtain necessary permits from NNEPA and implement SWPPP for any runoff if required. Disinfection procedures for the elevated storage tank shall follow AWWA Standard C652-86 Disinfection of Water Storage Facilities.
- Contractor shall provide temporary water source while elevated tank is being disinfected. Contractor may use water within the elevated tank as the source and shall provide the necessary temporary storage tank(s), additional water if required, pumping equipment and temporary connections to the existing water distribution system. It is recommended this work be conducted during periods the school is not operating (over summer or during winter break) to minimize the need for temporary water source.
- $\langle 5 \rangle$ Install new 8" water supply line from 75,000 gallon elevated water tower to site.
- \langle 6 \rangle Existing 6" water line from existing well. Contractor shall excavate line at all connection points and verify size and composition prior to ordering materials.







EA STAMP/ CONSULTANT LOGO



Cove Day School

VOLUME 1 OF 4

DOI, BIA NRO

Highway 13

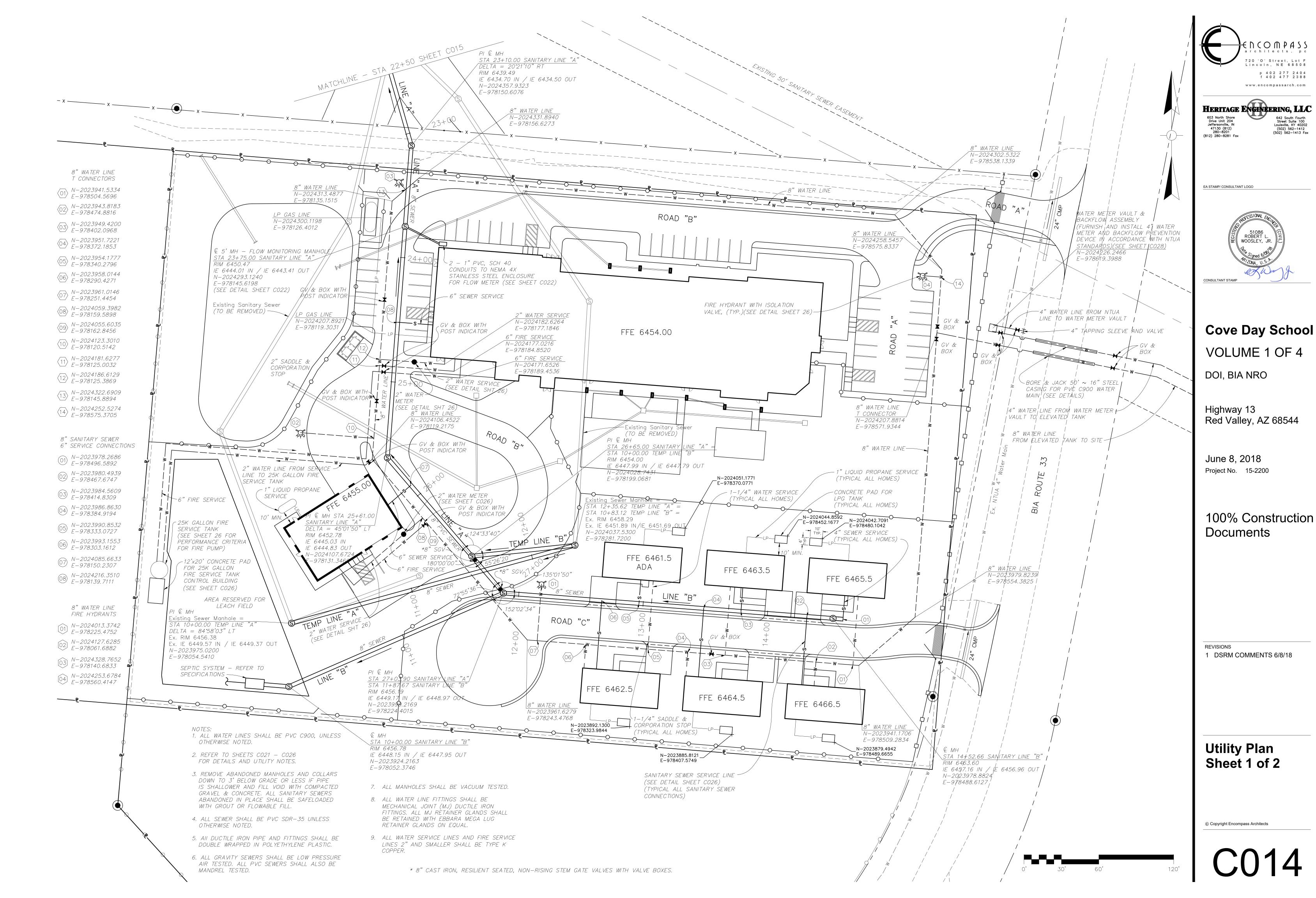
Red Valley, AZ 68544

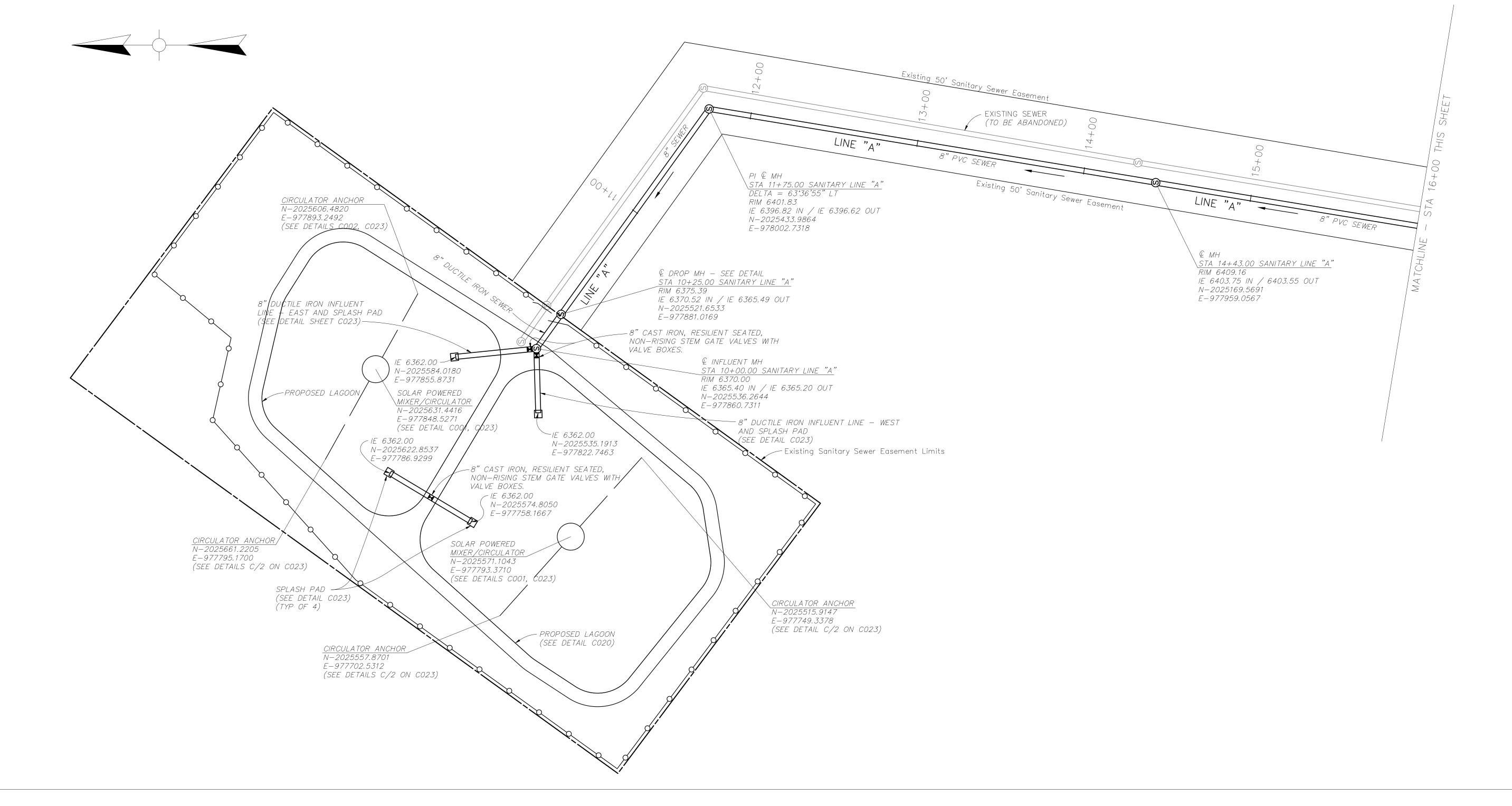
June 8, 2018 Project No. 15-2200

100% Construction Documents

REVISIONS

Elevated Water Tower **Modifications**





LINE "A"

STA 20+65.00 SANITARY LINE "A"

DELTA = 12°21'36" RT

IE 6424.78 IN / 6424.58 OUT

RIM 6429.55

N-2024593.4981

E-978083.2742

EXISTING SEWER (TO BE ABANDONED)—

STA 17+11.00 SANITARY LINE "A" DELTA = 37°41'28" LT

IE 6410.70 IN / 6410.50 OUT

RIM 6415.76

N-2024905.1519 E-977915.3816 STA 18+80.00 SANITARY LINE "A"

IE 6416.53 IN / 6416.33 OUT

RIM 6422.50

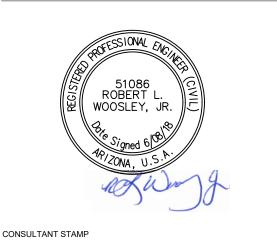
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E-977995.5337





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June 8, 2018
Project No. 15-2200

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REVISIONS

Utility Plan Sheet 2 of 2

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C015



8" CASILIRON, RESILIENT SEATED,
NON-RISING STEM GATE VALVES WITH

VALVE BOXES.

8" SEWER

- 1. REFER TO SHEETS CO20, CO22, CO23 & CO24 FOR DETAILS AND UTILITY NOTES.
- 2. REMOVE ABANDONED MANHOLES AND COLLARS
 DOWN TO 3' BELOW GRADE OR LESS IF PIPE
 IS SHALLOWER AND FILL VOID WITH COMPACTED
 GRAVEL & CONCRETE. ALL ABANDONED SEWERS
 SHALL BE SAFELOADED WITH GROUT OR FLOWABLE
- 3. ALL SEWER SHALL BE PVC SDR-35 UNLESS
- 4. All DUCTILE IRON PIPE SHALL BE DOUBLE WRAPPED IN POLYETHYLENE PLASTIC.

OTHERWISE NOTED.

- 5. ALL GRAVITY SEWERS SHALL BE LOW PRESSURE AIR TESTED. ALL PVC SEWERS SHALL ALSO BE MANDREL TESTED.
- 6. ALL MANHOLES SHALL BE VACUUM TESTED.

