

PUBLIC IMPROVEMENT PLANS
FOR

JACKSON MIDDLE SCHOOL

10600 INDIAN SCHOOL RD. NE
ALBUQUERQUE, NM 87112

MAY 2017

PREPARED FOR
ALBUQUERQUE PUBLIC SCHOOLS
915 LOCUST ST SE
ALBUQUERQUE, NM 87106

PREPARED BY
SCOTT M. MCGEE PE, LLC
9700 TANOAN DRIVE NE
ALBUQUERQUE, NM 87111

INDEX TO DRAWINGS

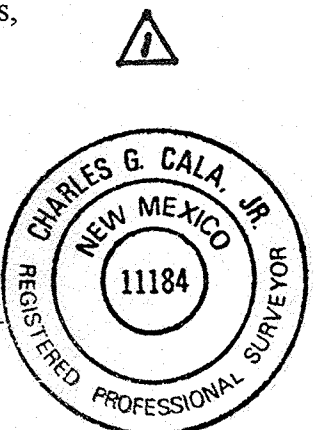
SHEET NO.	TITLE
1	COVER SHEET
2	SITE BOUNDARY
3	GRADING PLAN
4	EROSION CONTROL PLAN
5	UTILITY PLAN

WATER LINE PLAN AND PROFILE SHEETS:

6	WEST WATER LINE STA 1+00 TO 7+50
7	SOUTH WATER LINE STA 7+50 TO 15+00
8	TRACER WIRE SPECIFICATIONS AND DETAILS

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the "as-built" information shown on these drawings was obtained from field construction and "as-built" surveys performed by me or under my supervision, that the "as-built" information shown on these drawings was added by me or under my supervision, and that this "as-built" information is true and correct to the best of my knowledge and belief and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON RECORD DRAWINGS

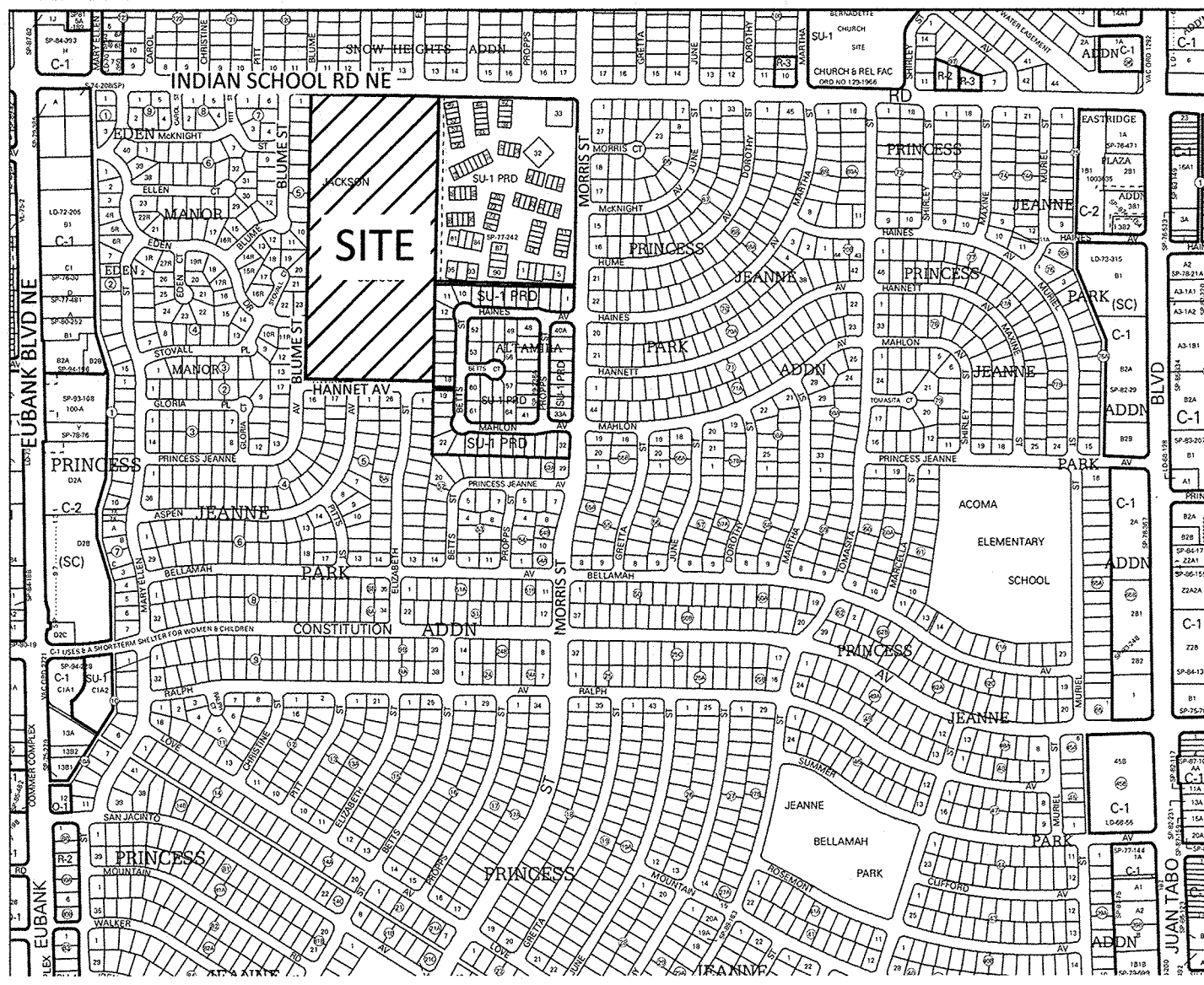
I, Scott M. McGee, of the firm of SCOTT M. MCGEE PE, LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by Charles G. Cala / High Mesa Consulting Group, NMPS number 11184.

Scott M. McGee
12-18-17



APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTIONS
CITY CONSTRUCTION ENGINEER

DATE: 2/9/2018



VICINITY MAP

J-21

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #9 AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY OR ABCWUA EASEMENTS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.
- SEVEN (7) WORKING DAYS PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO DMD CONSTRUCTION COORDINATION DIVISION (CCD) A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE DMD CCD. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH OTHER PROJECTS IN THE AREA.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- AT HIS OWN EXPENSE, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING CURB & GUTTER, PAVEMENT, SIDEWALKS, ACCESSIBLE RAMPS, STRIPING, AND SIGNAGE, DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE, PER STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ALL GRAFFITI FROM EQUIPMENT, EITHER PERMANENT OR TEMPORARY.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

WATER & SEWER

- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- THE CONTRACTOR SHALL COORDINATE WITH THE ABCWUA SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT AFFECTS PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCESURES.ASPX](http://abcwua.org/water_shut_off_and_turn_on_procedures.aspx).
- PROPOSED WATERLINE MATERIALS SHALL BE PVC PIPE MEETING AWWA C-900-D18 REQUIREMENTS (6" - 12"), DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6" - 64"), SEWER MATERIALS SHALL BE PVC SDR 35.
- ALL FITTINGS ON WATERLINE SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- ALL SANITARY SEWER LINE STATIONING REFERS TO SAS SEWER CENTERLINE STATIONING.
- ALL BACKFILL FOR TRENCHES WITHIN CITY R/W SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER STANDARD DRAWING NO. 2465.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED PER SECTION 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9.

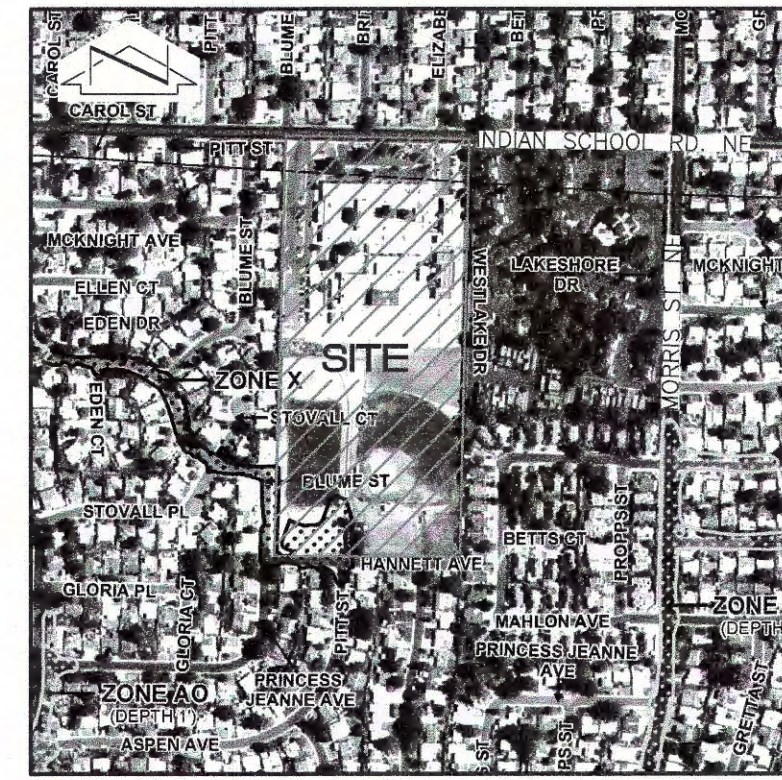
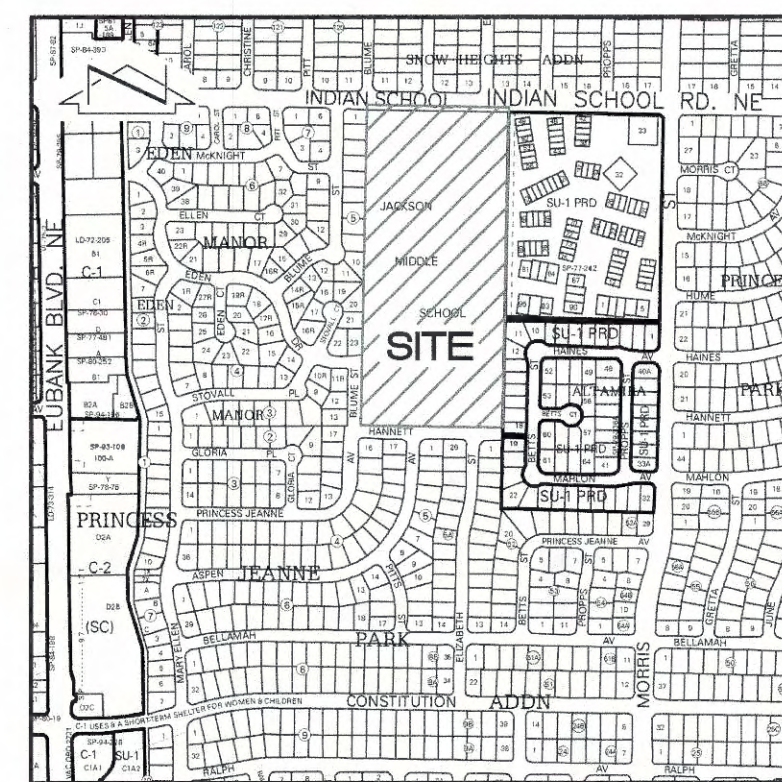
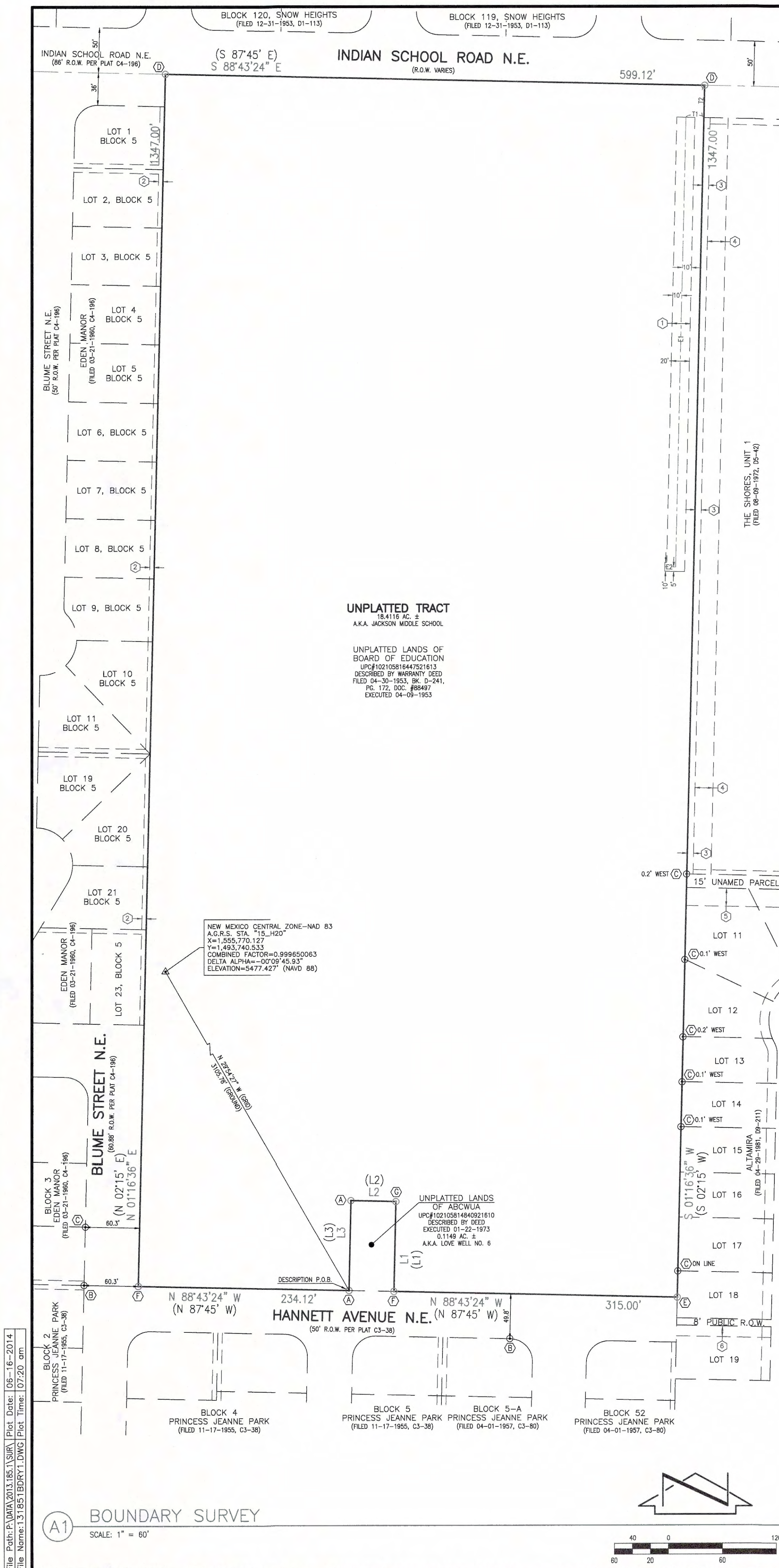
OTHER COMMON NOTES

- RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED

- MANUFACTURER'S RECOMMENDATION. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUDED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
- CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
 - CONTRACTOR SHALL DETERMINE IN ADVANCE OF HIS CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
 - PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH DAMAGING THE POLES AND CABLES DURING CONSTRUCTION.
 - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - EXISTING UTILITY LINE LOCATION ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.
 - THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ALL EXISTING UTILITIES.
 - CONTRACTOR SHALL SUPPORT ALL EXISTING UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
 - CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TV UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15 (MAXIMUM) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY

- OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
- CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC R/W OR ROADWAY EASEMENTS SO THAT EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
 - REMOVALS SHALL BE DISPOSED OF OFF-SITE LEGALLY BY THE CONTRACTOR.
 - CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.
 - CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC AND PEDESTRIAN PATHS INCLUDING ADA PATHWAYS.
 - WORK AFFECTING ARTERIAL ROADWAYS MAY REQUIRE 24-HOUR CONSTRUCTION.
 - ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
 - WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
 - REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT.
 - CURB & GUTTER, SIDEWALKS, AND DRIVE PADS SHALL MATCH ELEVATIONS OF ABUTTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
 - THE SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND THE FREE EDGE OF NEW CURB & GUTTER AND SIDEWALK.
 - OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN PUBLIC R/W.
 - CONTRACTOR SHALL TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IF R-VALUE < 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE > 50 OR CONTACT THE ENGINEER IMMEDIATELY SO PAVEMENT SECTION CAN BE MODIFIED.
 - TWO WEEKS PRIOR TO CONSTRUCTION CONTRACTOR SHALL NOTIFY TRANSIT DEPT OF ANY IMPACT THE PROPOSED WORK WILL HAVE ON TRANSIT SYSTEM SUCH AS CAUSING A DETOUR OR CAUSE THE CLOSING OR RELOCATION OF BUS STOP. CONTACT DOUGLAS GOFF (OFFICE) 724-3137 OR CELL 206-0151 OR AT DGoff@CABQ.GOV.

REV.	1, 6, 7	CITY ENGINEER	DATE	12-4-17	USER DEPARTMENT	DATE
ENGINEER'S STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	DATE	DATE	DATE
	DRC Chairman	<i>Scott McGee</i>	06/12/17			
	Transportation	<i>Tom Goff</i>	06/08/17			
	Water/Wastewater	<i>Tom Goff</i>	06/08/17			
	Hydrology	<i>Tom Goff</i>	06/08/17			
	C.I.P.					
Constr. Mngmt.						
City Project No.	902080	Sheet	1	Of	8	



BENCHMARKS

PROJECT BENCHMARK

AN ACS 3 1/4" ALUMINUM DISK STAMPED "15-H2O
1989", SET FLUSH WITH THE TOP OF CURB. THE
STATION IS LOCATED IN THE MEDIAN AT THE SOUTH
EDGE OF THE INTERSECTION OF EUBANK BOULEVARD
NE AND SNOW HEIGHTS BOULEVARD NE.
ELEVATION = 5477.43 FEET (NAVD 1988)

TEMPORARY BENCHMARK #1 (T.B.M.)
A MAG NAIL W/WASHER SET IN CONCRETE SIDEWALK
AS SHOWN ON SHEET 2.
ELEVATION = 5500.89 FEET (NAVD 1988)

TEMPORARY BENCHMARK #2 (T.B.M.)
A MAG NAIL W/WASHER SET IN CONCRETE CURB, AS
SHOWN ON SHEET 2.
ELEVATION = 5515.89 FEET (NAVD 1988)

TEMPORARY BENCHMARK #3 (T.B.M.)
A #5 REBAR W/CAP STAMPED "HMCG CONTROL
NMPS 11184" SET JUST SOUTH OF WESTERN
PARKING LOT, AS SHOWN ON SHEET 3.
ELEVATION = 5500.93 FEET (NAVD 1988)

TEMPORARY BENCHMARK #4 (T.B.M.)
A MAG NAIL W/WASHER SET IN ASPHALT PARKING
LOT, AS SHOWN ON SHEET 3.
ELEVATION = 5512.30 FEET (NAVD 1988)

TEMPORARY BENCHMARK #5 (T.B.M.)
A #5 REBAR W/CAP STAMPED "HMCG CONTROL
NMPS 11184" SET NEAR SOUTHWEST CORNER OF
CAMPUS, AS SHOWN ON SHEET 4.
ELEVATION = 5502.35 FEET (NAVD 1988)

TEMPORARY BENCHMARK #6 (T.B.M.)
A #5 REBAR W/CAP STAMPED "HMC CONTROL
NMP5 11184" SET NEAR SOUTHEAST CORNER OF
CAMPUS, AS SHOWN ON SHEET 4.
ELEVATION = 5514.68 FEET (NAVD 1988)

RECORD DRAWING
KEYED NOTES

- (W) UTILITIES DEPICTED BY AUGUST A. NEUNER ARCHITECT, LIBRARY CLASSROOM ADDITION, SHEETS 1 AND 7 OF 10. DATED APRIL, 1974
- (X) UTILITIES DEPICTED BY LOREN MASTIN ARCHITECT, ADDITIONS & ALTERATIONS, SHEETS A1 AND E1, DATED APRIL, 1980
- (Y) UTILITIES DEPICTED BY STANLEY & WRIGHT ARCHITECT, SITE & GRADING PLAN, SHEET 1 OF 30, DATED APRIL, 1957
- (Z) UTILITIES DEPICTED BY JAMES N. ROWLAND ARCHITECT, REMODELING & ADDITIONS, SHEETS 1, 4 AND 5 OF 5, DATED NOVEMBER, 1968

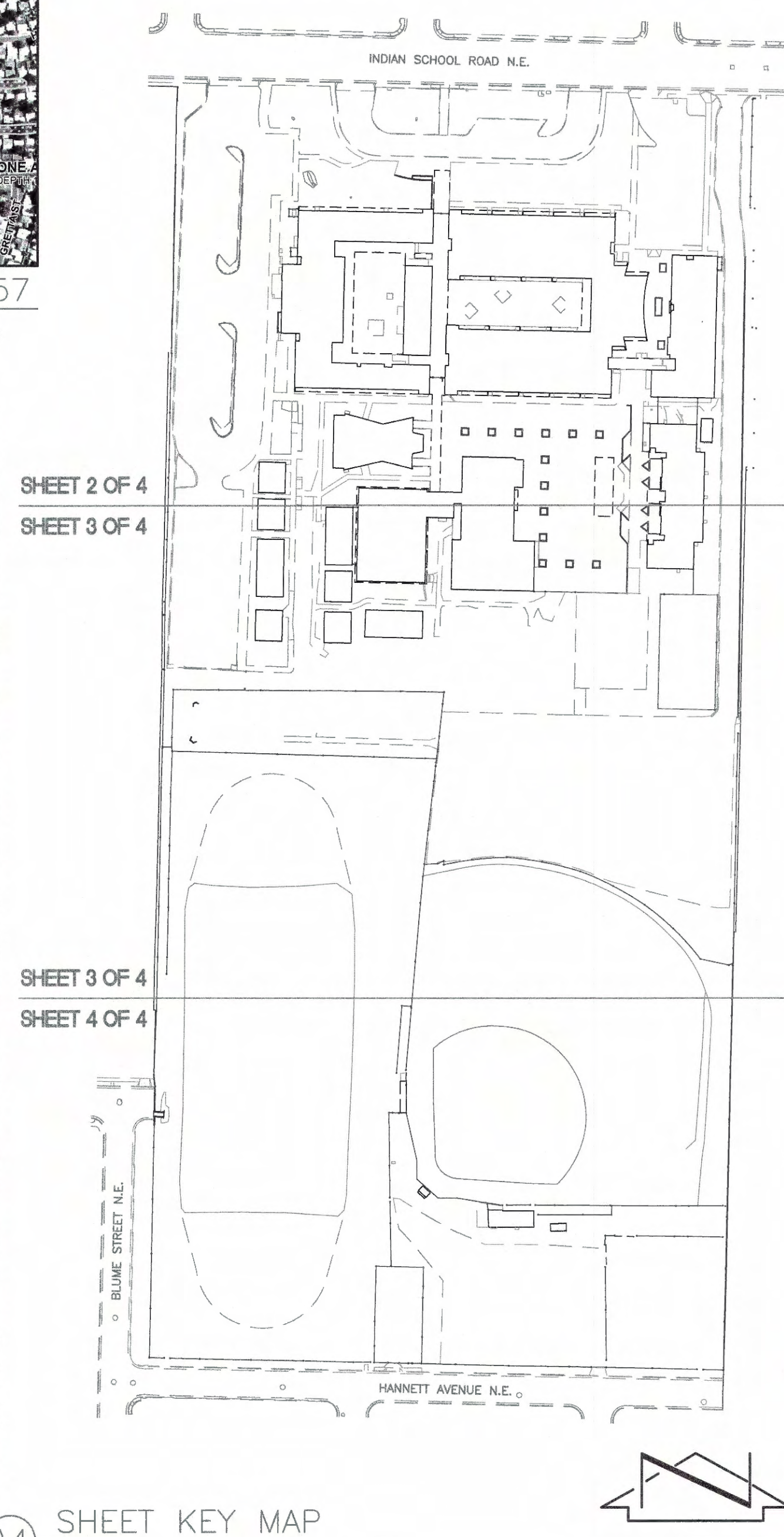
LEGAL DESCRIPTION

A CERTAIN TRACT OF LAND LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF ALBUQUERQUE, NEW MEXICO, COMPRISING THE UNPLATTED PARCEL (UPC #102105816447521613), AS DESCRIBED BY WARRANTY DEED FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 30, 1953, BOOK D-241, PAGE 172, DOCUMENT #88497, EXCEPTING THEREFROM THAT PORTION OF AN UNPLATTED PARCEL (UPC #102105814840921610), DESCRIBED BY AN UNRECORDED DEED EXECUTED ON JANUARY 22, 1973, SAID UNPLATTED PARCEL (UPC #102105816447521613) ALSO KNOWN AS JACKSON MIDDLE SCHOOL, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A SOUTHWEST CORNER OF THE PARCEL HEREIN DESCRIBED, BEING THE SOUTHWEST CORNER OF SAID UNPLATTED PARCEL (UPC #102105814840921610), ALSO BEING A POINT ON THE NORTH RIGHT-OF-WAY LINE OF HANNETT AVENUE N.E., WHENCE THE AGRS CONTROL STATION 15°-120° BEARS N 29°54'27" W A DISTANCE OF 3105.78 FEET, THENCE N 88°43'24" W A DISTANCE OF 1347.00 FEET TO THE NORTHEAST CORNER OF THE PARCEL HEREIN DESCRIBED, BEING THE POINT OF INTERSECTION OF SAID NORTH RIGHT-OF-WAY LINE WITH THE EAST RIGHT-OF-WAY LINE OF BLUME STREET N.E.; THENCE N 01°16'36" E A DISTANCE OF 1347.00 FEET TO THE NORTHWEST CORNER OF THE PARCEL HEREIN DESCRIBED, BEING THE LINE INTERSECTION OF SAID NORTHWEST CORNER OF THE PARCEL HEREIN DESCRIBED WITH THE LINE INTERSECTION OF SAID NORTHWEST CORNER OF THE PARCEL HEREIN DESCRIBED WITH THE LINE INTERSECTION OF SAID NORTHWEST CORNER OF THE PARCEL HEREIN DESCRIBED WITH THE LINE INTERSECTION OF SAID NORTHWEST CORNER OF THE PARCEL HEREIN DESCRIBED, BEING A POINT ON THE WEST PROPERTY LINE OF LOT 18, ALTAMIRA, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERKELEY COUNTY, NEIGHBORING TO THE WEST OF HANNETT PLAT BOOK D9, PAGE 211, ALSO BEING THE NORTHWEST CORNER OF THE RIGHT-OF-WAY OF HANNETT AVENUE N.E.; THENCE S 88°43'24" W A DISTANCE OF 315.00 FEET ALONG THE NORTH RIGHT-OF-WAY LINE OF HANNETT AVENUE N.E. TO A SOUTHERN CORNER OF THE PARCEL HEREIN DESCRIBED, BEING THE SOUTHEAST CORNER OF SAID UNPLATTED PARCEL (UPC #102105814840921610); THENCE N 01°16'36" E A DISTANCE OF 100.00 FEET TO THE NORTHEAST CORNER OF SAID UNPLATTED PARCEL (UPC #102105814840921610); THENCE S 88°43'24" W A DISTANCE OF 30.04 FEET TO THE NORTHWEST CORNER OF SAID UNPLATTED PARCEL (UPC #102105814840921610); THENCE S 01°15'09" W A DISTANCE OF 100.11 FEET TO THE POINT OF BEGINNING AND CONTAINING 18.4116 ACRES MORE OR LESS.

CONTROL SURVEY NOTE

A CONTROL SURVEY WAS CONDUCTED AT THE SITE ON MAY 12, 2014. CONTROL WAS PROJECTED ONTO THE SURVEY SUBJECT USING RTK GPS OBSERVATIONS COMBINED WITH GEOID COAJOLU08 TO ESTABLISH HORIZONTAL AND VERTICAL POSITIONS BASED UPON NAD 83/NAVD 88 DATUM. THE RTK OBSERVATIONS WERE USED TO ESTABLISH THE TEMPORARY BENCHMARKS AT THE PROJECT SITE. THE POINTS OBSERVED HAVE BEEN QUALITY CONTROLLED FOR RELATIVE ACCURACY. AN AGRS CONTROL STATION AND A SEPARATE HORIZONTAL CONTROL STATION IN THE VICINITY OF THE PROJECT WERE OBSERVED IN ORDER TO PROVIDE REFERENCE TIES TO THE SITE. THE AGRS CONTROL STATION USED TO PROJECT FROM GRID TO GROUND IS "15-H20".



GENERAL NOTES

1. A BOUNDARY, TOPOGRAPHIC AND UTILITY SURVEY WAS PERFORMED IN MAY, 2014. PROPERTY CORNERS WERE FOUND OR SET AS INDICATED.
2. ALL DISTANCES ARE GROUND DISTANCES.
3. SITE LOCATED WITHIN SECTION 16, TOWNSHIP 10 NORTH, RANGE 4 EAST, N.M.P.M.
4. BEARINGS SHOWN HEREON ARE NEW MEXICO STATE PLANE GRID BEARINGS, CENTRAL ZONE (NAD 83). THESE BEARINGS ARE POSITIONED FROM A.G.R.S. CONTROL STATION "15-H20".
5. RECORD BEARINGS AND DISTANCES ARE SHOWN IN PARENTHESIS.
6. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, AERIAL DISTRIBUTION MAPS AND UTILITY LINE-SPOTS PROVIDED BY ONPOINT UTILITY LOCATING SERVICES. SITE UTILITY DIAGRAM (BOTH PUBLIC AND PRIVATE) DATED MAY 15, 2014. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET # 2014191188). UTILITY LINES SHOWN ON THIS DRAWING ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES DO NOT EXIST UNLESS SHOWN BY SUCH SERVICE. IF ANY SUCH LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE INFORMATION CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREOF. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FURTHER RESPONSIBLE FOR ADDRESSING ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
7. THE FOLLOWING DOCUMENTS AND INSTRUMENTS WERE USED FOR THE PERFORMANCE AND PREPARATION OF THIS SURVEY:
 - A. REAL PROPERTY FILES OF THE ALBUQUERQUE PUBLIC SCHOOLS, REAL ESTATE DIRECTOR.
 - B. WARRANTY DEED, FILED 04-30-1953, BOOK D-241, PAGE 172, DOC. #89497- RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
 - C. DEED, EXECUTED 01-22-1973 (UNRECORDED).
 - D. PLAT OF EDEN MANOR, FILED 03-21-1960, PLAT BOOK C4, PAGE 196, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
 - E. PLAT OF PRINCESS JEANNE PARK, FILED 11-17-1955, PLAT BOOK C3, PAGE 36, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
 - F. PLAT OF PRINCESS JEANNE PARK, FILED 04-01-1957, PLAT BOOK C3, PAGE 80, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
 - G. PLAT OF ALTAMIRA, FILED 04-29-1981, PLAT BOOK D8, PAGE 211, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
 - H. PLAT OF THE SHORES, UNIT 1, FILED 08-09-1972, PLAT BOOK D5, PAGE 42, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
 - I. PLAT OF SNOW HEIGHTS, FILED 12-31-1953, PLAT BOOK D1, PAGE 113, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
8. THIS TOPOGRAPHIC AND UTILITY SURVEY HAS BEEN PREPARED BASED UPON NAVD 88 DATUM. PREVIOUS SURVEYS OF THIS AREA CONDUCTED BY OUR FIRM AND OTHER CONSULTANTS HAVE BEEN CONDUCTED BASED UPON NAVD 29 DATUM. SPECIAL CARE SHOULD BE EXERCISED WHEN COMPARING ELEVATIONS FROM THIS SURVEY TO CURRENT AND PREVIOUS SURVEYS, PLANS AND AS-BUILT DOCUMENTS.
9. AN AREA IN THE SOUTHWESTERN PORTION OF THE PROPERTY SURVEYED HEREON HAS A SHADED ZONE X DESIGNATION WHICH IS FURTHER DESCRIBED AS "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DAMAGED AREAS OF 1% ANNUAL CHANCE FLOOD PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD"; THE REMAINING PORTION OF THE PROPERTY SURVEYED HEREON HAS A ZONE X DESIGNATION WHICH IS FURTHER DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" BASED UPON REVIEW OF THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAPS, PLAN. 357 OF 625, DATED AUGUST 16, 2012.
10. THE PROPERTY SURVEYED HEREON MAY BE SUBJECT TO A QUILTCAM DEED BETWEEN ALBUQUERQUE PUBLIC SCHOOLS AND THE CITY OF ALBUQUERQUE FOR A WELL SITE PER DOCUMENT EXECUTED APRIL 1974.
11. THE PROPERTY SURVEYED HEREON MAY BE SUBJECT TO A LICENSE AGREEMENT BETWEEN ALBUQUERQUE PUBLIC SCHOOLS AND MILE HIGH LITTLE LEAGUE FOR PLAYING FIELDS BY DOCUMENT EXECUTED OCTOBER 01, 1998 AND APRIL 12, 1999 (LICENSE EXPIRED OCTOBER 01, 2008).
12. THE PROPERTY SURVEYED HEREON MAY BE SUBJECT TO A RIGHT-OF-WAY GRANTED TO AMERICAN TELEPHONE AND TELEGRAPH COMPANY OF WYOMING PER DOCUMENT FILED JULY 06, 1937, BOOK 152, PAGE 83, RECORDS OF BERNALILLO COUNTY, NEW MEXICO. THE LOCATION OF THE UTILITY LINE IS DEPICTED SOUTH OF THE SUBJECT SITE BY MAPPING PREPARED BY ROSS-BEVER ENGINEERING OFFICE DATED JANUARY 26, 1951.
13. THE PROPERTY SURVEYED HEREON IS SUBJECT TO AN INTERGOVERNMENTAL SUB-LEASE PARK IMPROVEMENT AGREEMENT BETWEEN ALBUQUERQUE PUBLIC SCHOOLS AND THE CITY OF ALBUQUERQUE FOR PARK IMPROVEMENTS PER DOCUMENT EXECUTED ON NOVEMBER 20, 1996 (TWO-YEAR AGREEMENT).
14. PUBLIC ROADWAY/SIDEWALK AND PUBLIC UTILITIES ALONG INDIAN SCHOOL ROAD N.E. ENCRGOACH ONTO THE SURVEYED PROPERTY, SEE SHEET 2 OF 4.

KEYED NOTES

EASEMENT

① ABCWUA WATER LINE EASEMENT GRANTED BY DOCUMENT FILED
06-03-1993, BOOK 93-14, PAGES 5253-5256, DOC.
#1993058098

EASEMENTS - OFFSITE

② 5' UTILITY EASEMENT GRANTED BY PLAT C4-196

③ 7' TELEPHONE AND POWER EASEMENT GRANTED BY PLAT D5-42

④ 20' GAS AND WATER EASEMENT GRANTED BY PLAT D5-42

⑤ 20' PRIVATE SEWER EASEMENT GRANTED BY PLAT D9-211

⑥ 12' WATER AND SEWER EASEMENT GRANTED BY PLAT D9-211

BOUNDARY TABLE

LINE	DIRECTION	DISTANCE
L1	N 01°16'36" E	100.00'
(L1)	N 02°15' E	100.00'
L2	N 88°35'59" W	50.04'
(L2)	N 87°45' W	50.00'
L3	S 01°15'09" W	100.11'
(L3)	S 02°15' W	100.00'

EASEMENT TABLE

LINE	DIRECTION	DISTANCE
E1	S 02°15'00" W	500.00'
E2	N 87°45'00" W	12.00'
T1	S 87°45'00" E	20.00'
T2	N 02°15'00" E	36.00'

SURVEYORS CERTIFICATION

I, CHARLES G. CALA, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 11184, DO HEREBY CERTIFY; THAT THIS BOUNDARY, TOPOGRAPHIC AND UTILITY SURVEY AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE _____

FOR INFORMATION ONLY

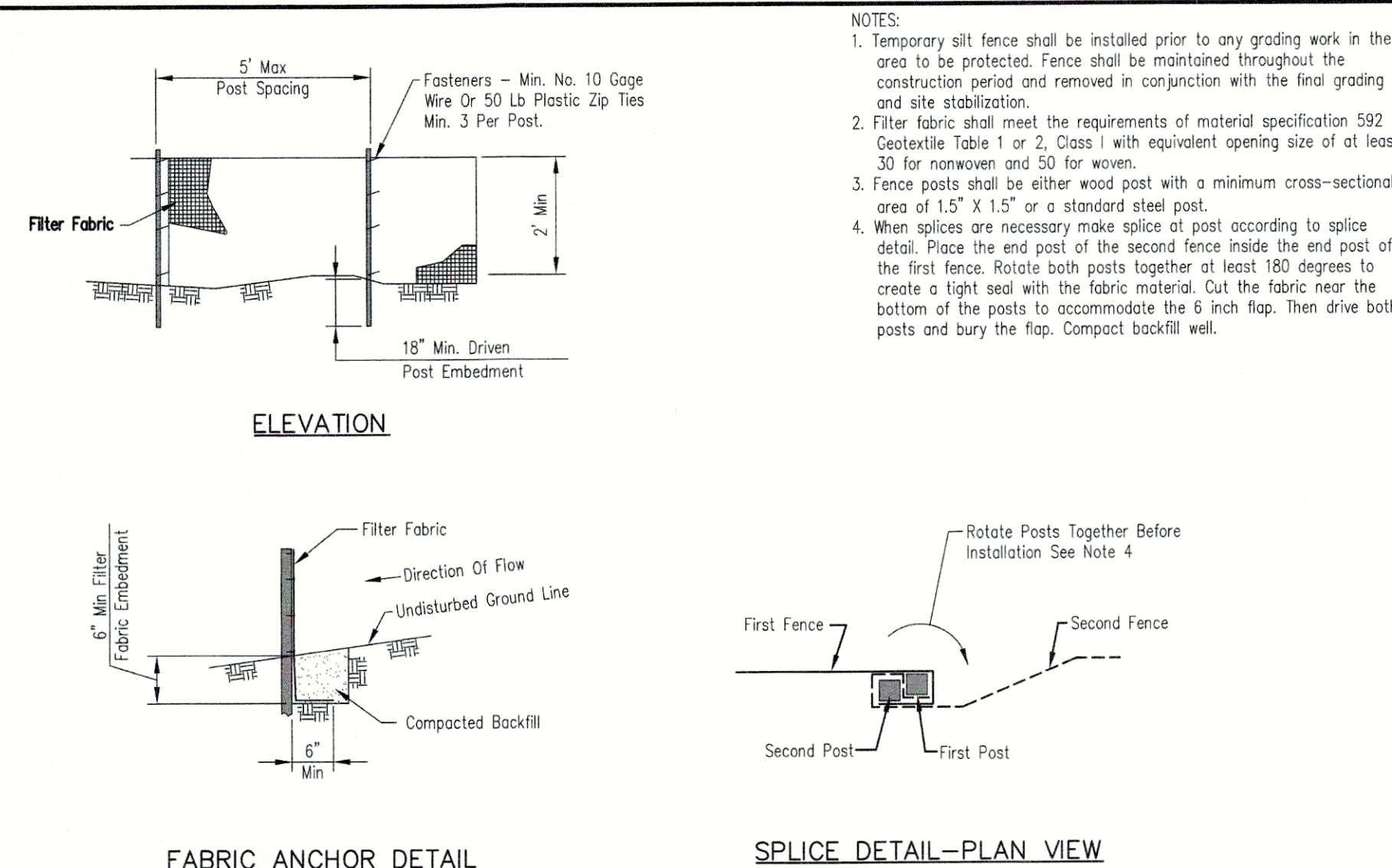
JACKSON MIDDLE SCHOOL

REVISIONS

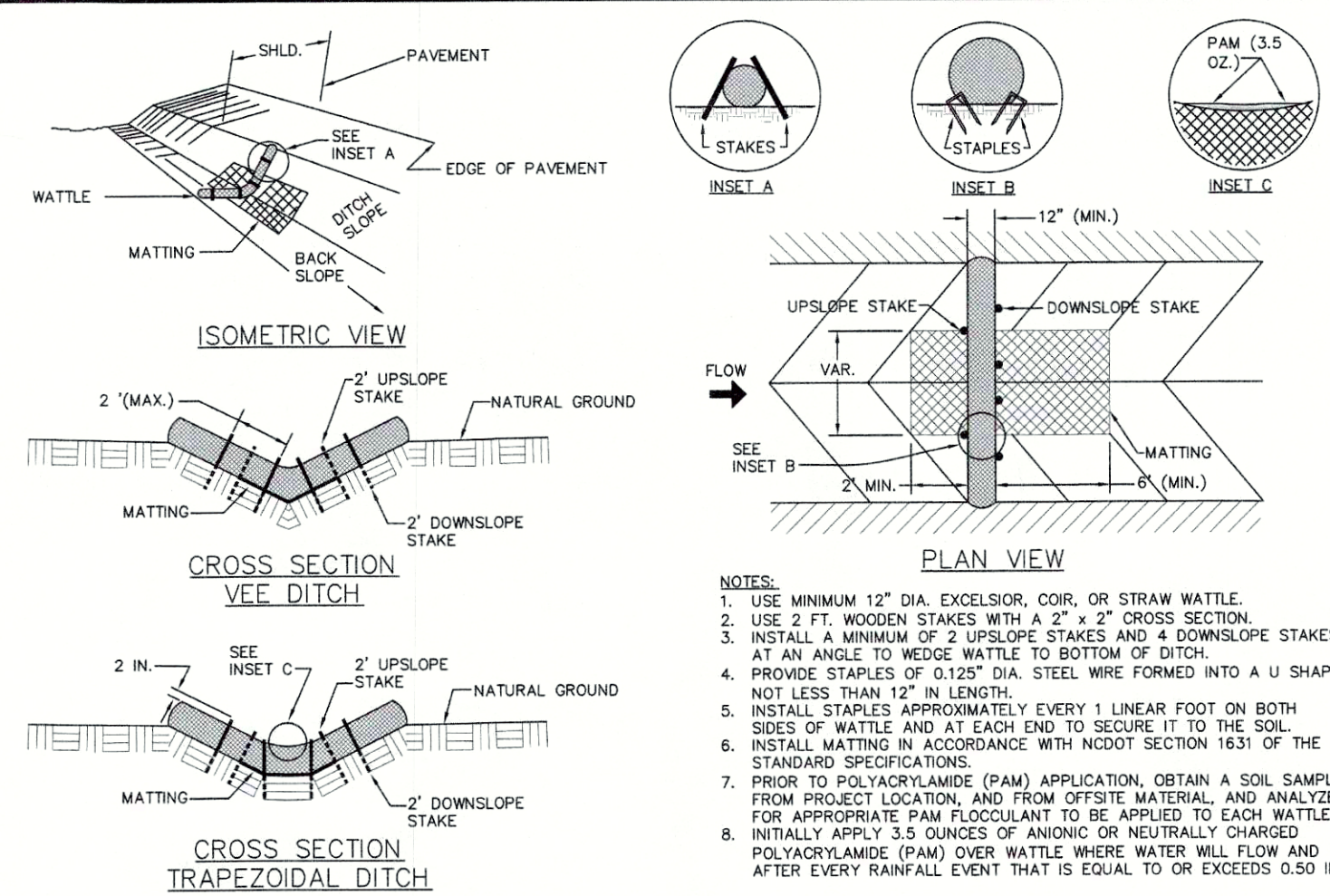
NO.						
DATE						
BY						
PROJECT No.		2013.185.1				
SURVEYED BY		M.V.Z./E.J.S.				
DRAWN BY		T.N.T.				
APPROVED BY		C.G.C.				
SHEET TITLE						

BOUNDARY SURVEY

VF-101
SHEET 2* OF 8*



- NOTES:
1. Temporary silt fence shall be installed prior to any grading work in the area to be protected. Fence shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class 1 with equivalent opening size of at least 30 for nonwoven and 50 for woven.
 3. Fence posts shall be either wood post with a minimum cross-sectional area of 1.5" x 1.5" or a standard steel post.
 4. When splices are necessary make splice at post according to splice detail. Place the end post of the second fence inside the end post of the first fence. Rotate both posts together at least 180 degrees to create a tight seal with the fabric material. Cut the fabric near the bottom of the posts to accommodate the 6 inch flap. Then drive both posts and bury the flap. Compact backfill well.



WATTLE DETAIL

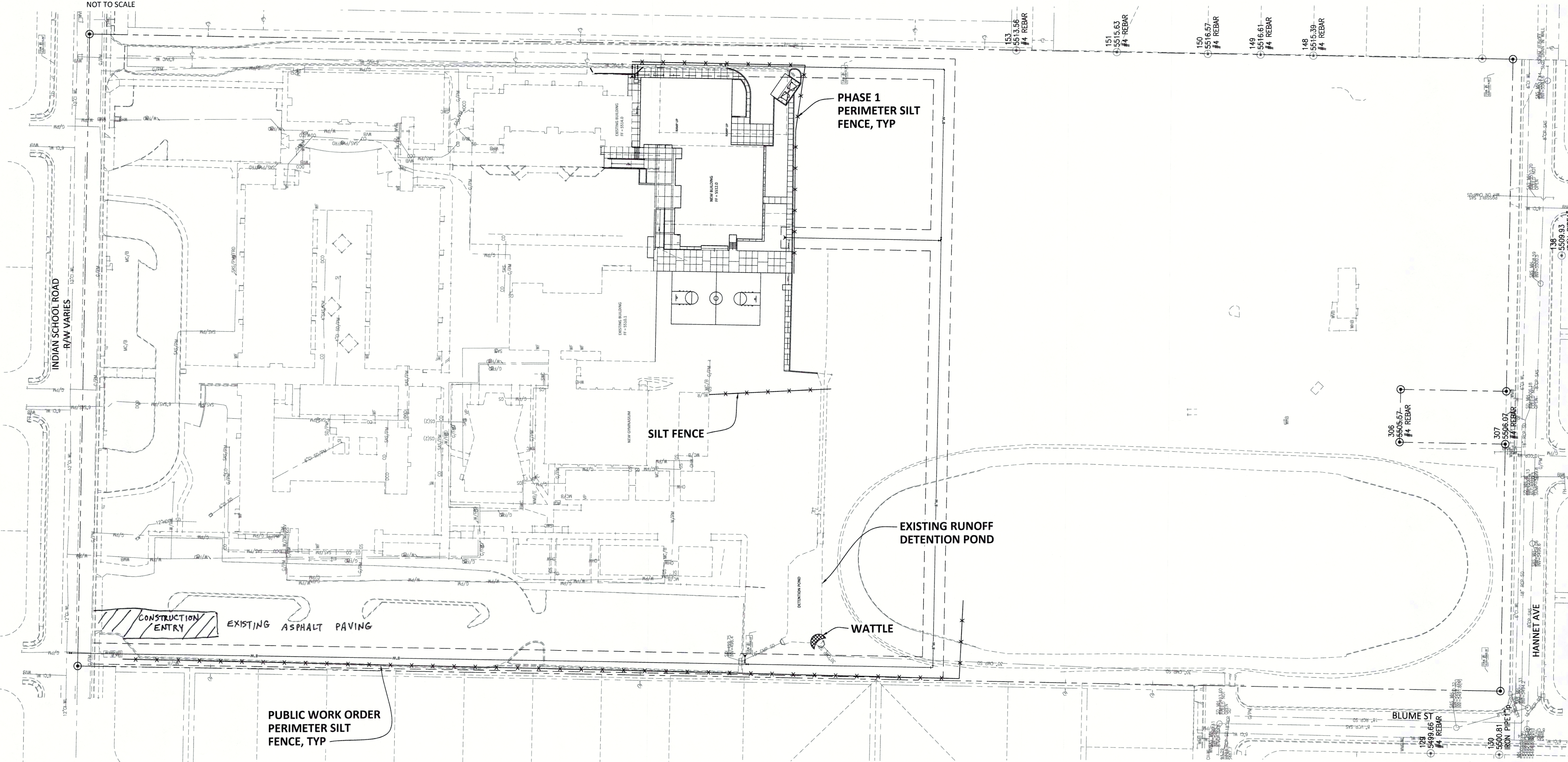
NOT TO SCALE

EROSION CONTROL PLAN & POLLUTION PREVENTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MANAGING ALL SEDIMENT AND EROSION WITHIN THE EXISTING RIGHTS OF WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR IN COMPLIANCE WITH THE SWPPP FOR THIS SITE.
5. ALL EXPOSED EARTH SURFACES SHALL BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.
6. ALL DISTURBED AREAS OUTSIDE PAVED ROADWAYS MUST BE REVEGETATED.
7. PROJECT IS REQUIRED TO MAINTAIN A REGIMENT OF BMP MAINTENANCE TO MINIMIZE AND PREVENT OFFSITE CONVEYANCES DURING CONSTRUCTION.
8. CONTRACTOR SHALL PLACE EXCAVATED EARTH PILE ON UPHILL SIDE OF ALL TRENCHES.

LEGEND

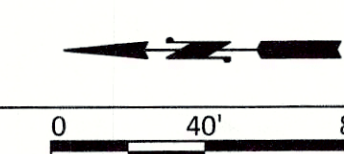
- WATTLE. PLACE AT INLET END OF CULVERT TO PREVENT SEDIMENT FROM ENTERING STORM DRAIN.



RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

EROSION AND SEDIMENT CONTROL PLAN

1" = 40'



PROJECT TITLE

JACKSON MIDDLE SCHOOL CLASSROOM ADDITION

ALBUQUERQUE
NEW MEXICO



REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DATE: MAY 2017

PROJECT NUMBER: A1401

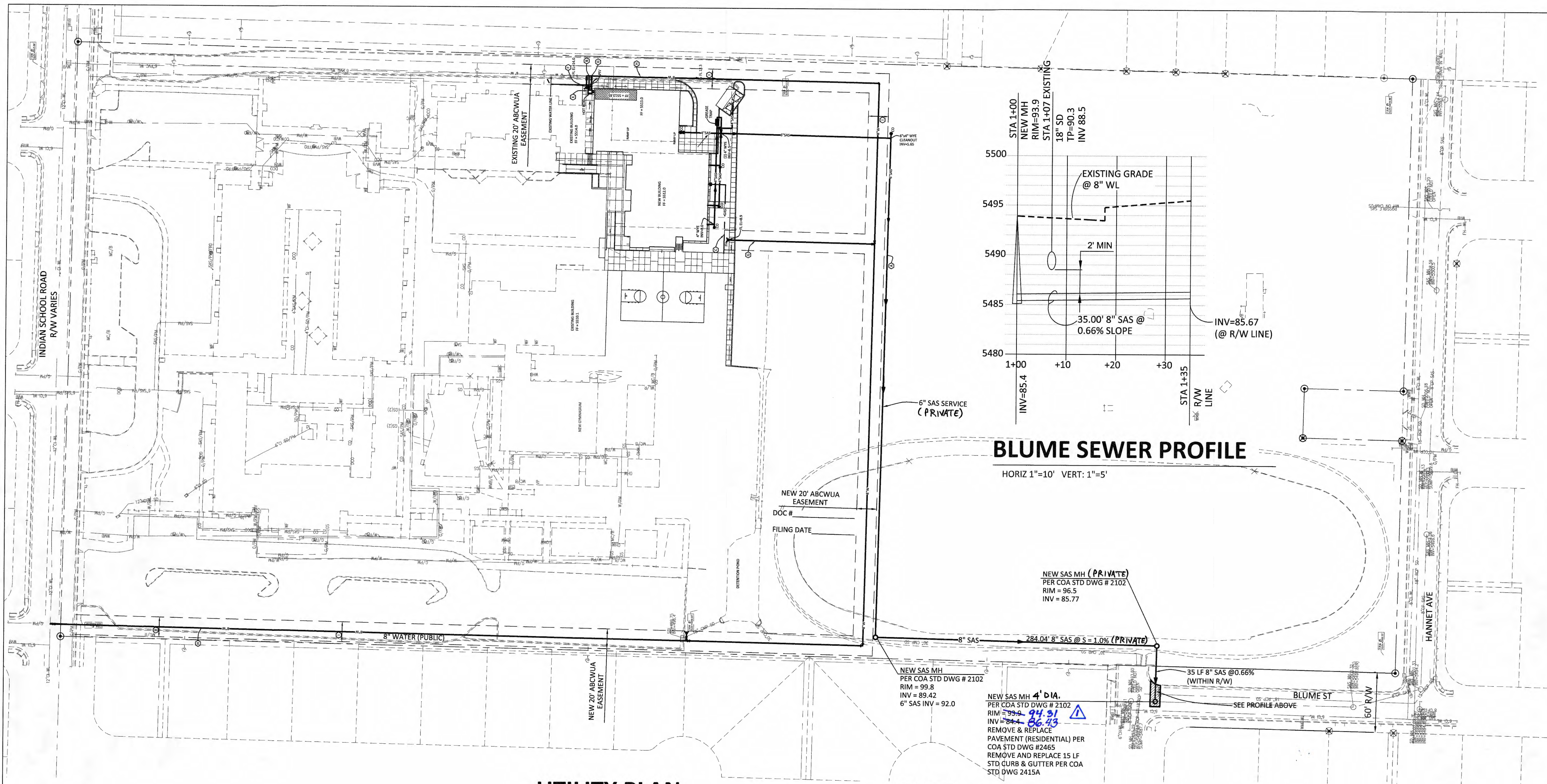
DRAWN BY: CB

CHECKED BY: SMM

SHEET TITLE: JACKSON MIDDLE SCHOOL

EROSION AND SEDIMENT CONTROL PLAN

SHEET NO: 4 OF 8

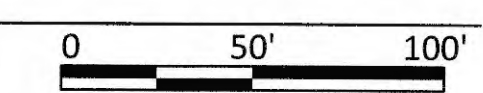


BLUME SEWER PROFILE

HORIZ 1"=10' VERT: 1"=5'

UTILITY PLAN

1" = 50'



RESTRAINED JOINT LENGTHS, L _T , FOR TEES, (FT.) ALL JOINTS AT THE TEE MUST BE RESTRAINED.		
SIZE	RUN	BRANCH
8x8x8	9	20
8x8x6	5	17
8x8x4	2	15
6x6x6	6	20
6x6x4	2	20

THIS TABLE IS BASED UPON THE FOLLOWING CRITERIA:

DEPTH OF BURY	3.0 FT. MINIMUM
FACTOR OF SAFETY	1.25
SOIL TYPE:	GM/SM - SILTY GRAVELS AND SILTY SANDS GRAVEL-SAND-SILT MIXTURES
TEST PRESSURE	150 PSI
TRENCH TYPE 4:	PIPE BEDDED IN SAND, GRAVEL, OR STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4
INCH	MINIMUM: BACKFILL COMPACTED TO TOP
OF PIPE.	

DIFFERENT CRITERIA, E.G., DUCTILE IRON PIPE, GREATER DEPTH OF BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT

RESTRAINED JOINT LENGTHS, L _T , FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)					
SIZE	90°	45°	22 1/2°	11 1/4°	VALVES & DEAD ENDS
12	30	12	6	3	85
10	26	11	5	3	72
8	22	9	4	2	60
6	17	7	3	2	46
4	12	5	2	1	32

RESTRAINED JOINT LENGTHS, L _T , FOR REDUCERS, (FT.) MINIMUM UNOBSTRUCTED, STRAIGHT-RUN LENGTH: RESTRAIN EITHER LARGE PIPE, OR SMALL PIPE					
SIZE	LARGE SIDE	SMALL SIDE	SIZE	LARGE SIDE	SMALL SIDE
12x10	25	30	10x6	44	73
12x8	45	68	10x4	58	141
12x6	62	121	8x6	25	33
12x4	74	213	8x4	43	83
10x8	24	30	6x4	24	35

- NOTES:
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
 - THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
 - THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

LEGEND	
---	EXISTING CONSTRUCTION
---	EXISTING WATER LINE
---	NEW WATER LINE
---	EXIST GAS LINE
---	NEW GAS LINE
---	EXISTING SAS LINE
---	NEW SANITARY SEWER LINE WITH SIZE
---	NEW WATER LINE WITH SIZE
○	CLEANOUT
▲	NEW FIRE HYDRANT
FF=5512.0	FINISH FLOOR ELEV

RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

SURVEY INFORMATION		BENCH MARK		AS BUILT INFORMATION	
FIELD NOTES		ACCS BM '15-H20 1989 AN ALUMINUM DISK		CONTRACTOR	
BY		SET FLUSH WITH THE TOP OF CURB.		WORK STAKED BY	
High Mesa Consulting Group		THE STATION IS LOCATED IN THE MEDIAN AT		INSPECTOR'S APPROVAL	
May 2014		THE SOUTH EDGE OF THE INTERSECTION OF		FIELD VERIFICATION BY	
		EUBANK BLVD NE AND SNOWHEIGHTS BLVD. NE		DRAWING CORRECTED BY	
		ELEV = 5477.43 FEET (NAVD 1988)		DATE	
				MICRO-FILM INFORMATION	
				RECORDED BY	
				NO.	

SCOTT M. MCREE
NEW MEXICO
10519
Professional Engineer
5/23/17

REVISIONS/REMARKS		BY		DATE	
12/17 AS BUILT SURVEY		CNC		05/2017	
				05/2017	
				05/2017	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: JACKSON MIDDLE SCHOOL
SITE UTILITY PLAN
Albuquerque, New Mexico

Design Review Committee

APPROVED
JUN 12 2017
DESIGN REVIEW COMMITTEE

City Engineer Approval

APPROVED
JUN 26 2017
CITY ENGINEER

Last Design Update

MO. / DAY / YR.

City Project No.

902080

Zone Map No.

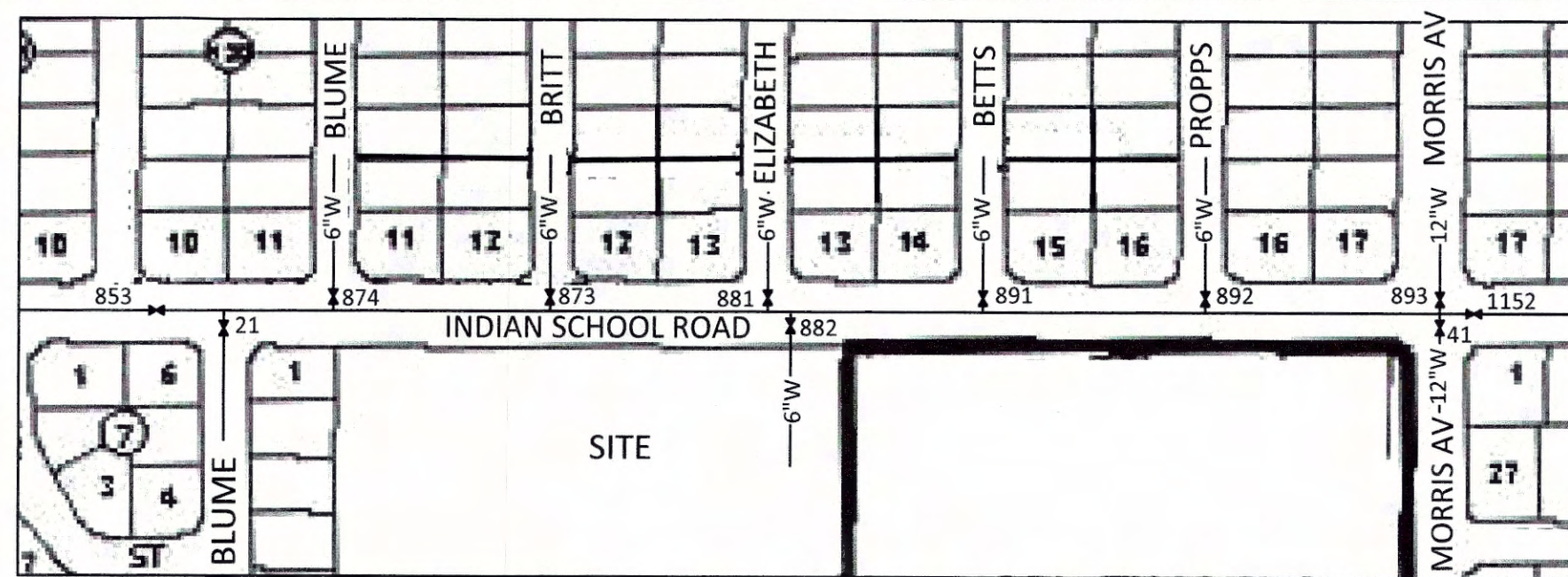
J-21

Sheet:

5

Of

8



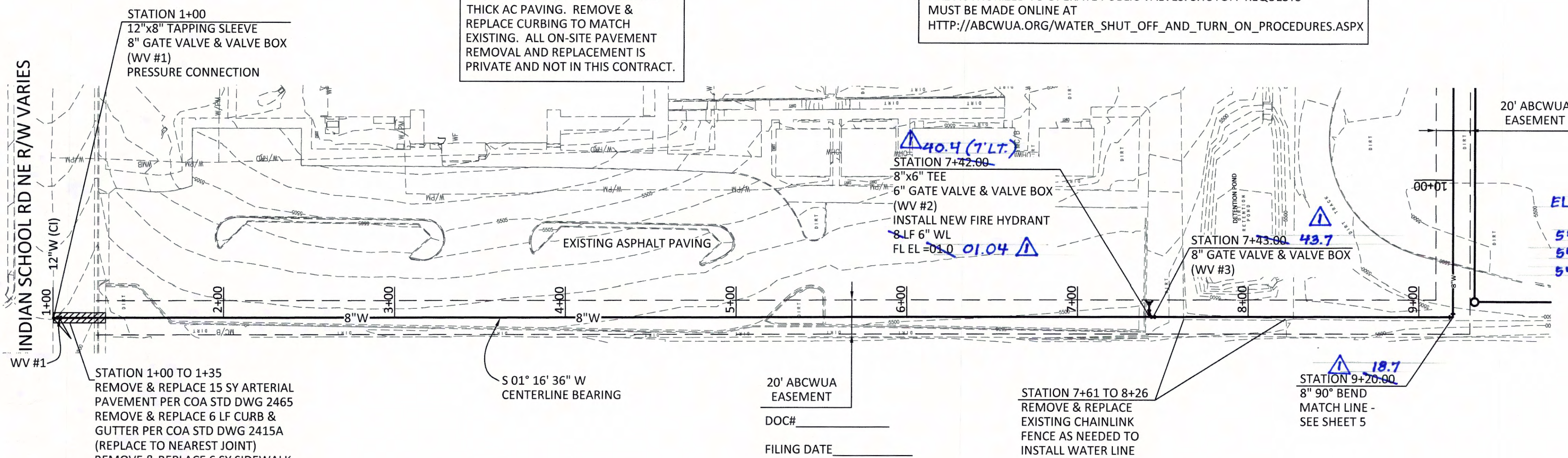
WATER VALVE SHUT-OFF PLAN

NO SCALE

OPERATE WATER VALVE NOS. 853, 21, 874, 873, 881, 882, 891, 892, 893, 41 & 1152 TO ISOLATE THE WATER LINE.

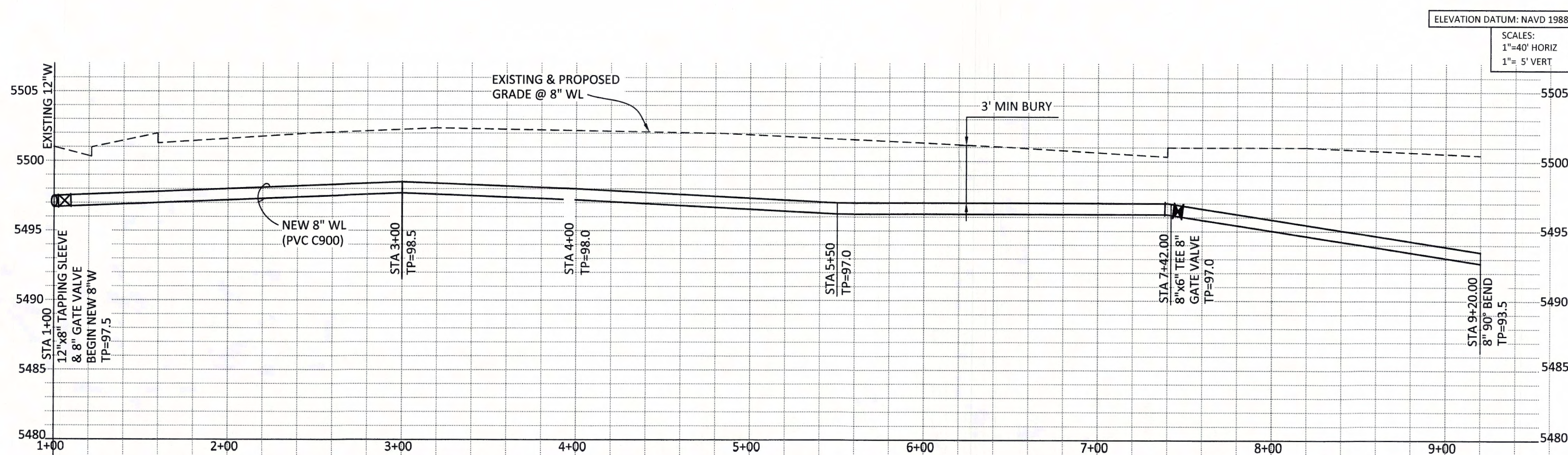
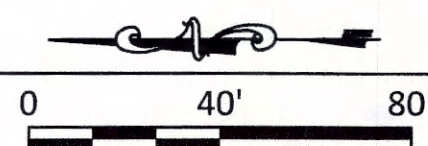
THE CONTRACTOR SHALL COORDINATE WITH THE ABCWUA SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT AFFECTS PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX](http://abcwua.org/water_shut_off_and_turn_on_procedures.aspx)

NOTE: REMOVE & REPLACE EXISTING ASPHALT PAVING WITH 3" THICK AC PAVING. REMOVE & REPLACE CURBING TO MATCH EXISTING. ALL ON-SITE PAVEMENT REMOVAL AND REPLACEMENT IS PRIVATE AND NOT IN THIS CONTRACT.



WEST WATER LINE

1" = 40 FT



LEGEND

- FH FIRE HYDRANT
- PIV POST INDICATOR VALVE
- HB HOT BOX WITH REDUCED PRESSURE BACKFLOW VALVES

GENERAL NOTES

- WATER VALVES AND VALVE BOXES SHALL BE PER ABCWUA STD DWG NOS. 2326 & 2328
- FIRE HYDRANTS SHALL BE INSTALLED PER ABCWUA STD DWG NO. 2340.

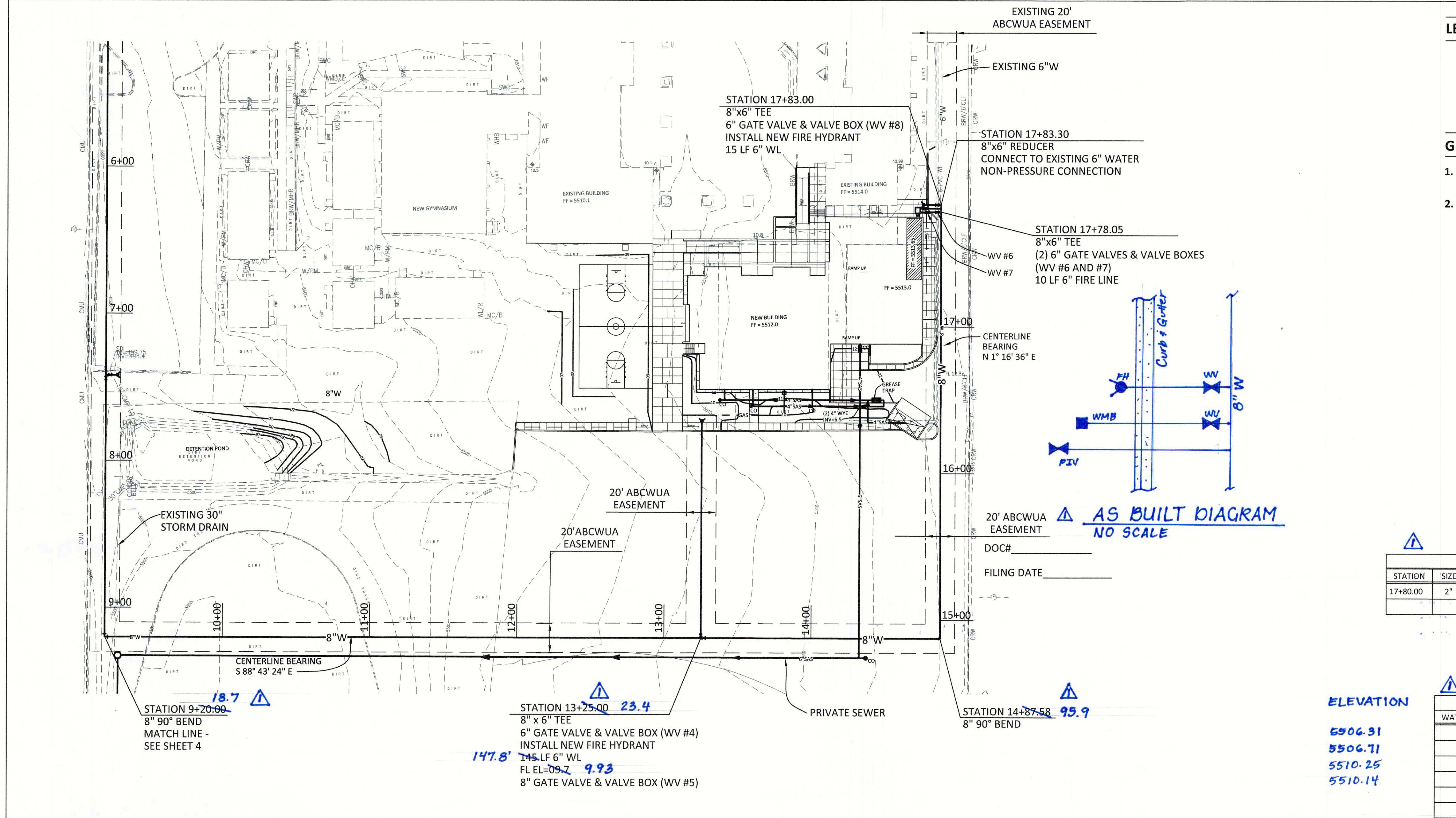
GPS TABLE FOR WATER VALVES	WATER VALVE	X	Y	NORTHING	EASTING
				AS-BUILT	AS-BUILT
	WV #1	492,410.53	557,127.06	1,492,409.43	1,557,121.48
	WV #2	491,768.69	557,112.75	1,491,769.51	1,557,115.19
	WV #3	491,766.44	557,112.70	1,491,766.05	1,557,112.78

AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION			
CONTRACTOR	DATE:	ACS BM 15-H20 1989 AN ALUMINUM DISK	SET FLUSH WITH THE TOP OF CURB.	FIELD NOTES	BY		
WORK STAKED BY	DATE:	THE STATION IS LOCATED IN THE MEDIAN AT THE SOUTH EDGE OF THE INTERSECTION OF EUBANK BLVD NE AND SNOWHEIGHTS BLVD. NE		High Mesa Consulting Group	May 2014		
INSPECTOR'S APPROVAL	DATE:	ELEV = 5477.43 FEET (NAVD 1988)					
FIELD VERIFICATION BY	DATE:	N: 1,493,740.533					
DRAWING CORRECTED BY	DATE:	E: 1,555,770.127		SCOTT M. MOORE			
MICRO-FILM INFORMATION		RECORDED BY		NO.			

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: JACKSON MIDDLE SCHOOL WATER LINE P & P Albuquerque, New Mexico	
Design Review Committee APPROVE JUN 12 2017 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVE JUN 26 2017 CITY ENGINEER
City Project No. 902080	Zone Map No. J-21
Sheet: 6	Of 8



LEGEND

FH	FIRE HYDRANT
PIV	POST INDICATOR VALVE
HB	HOT BOX WITH REDUCED PRESSURE BACKFLOW VALVES

- GENERAL NOTES**
- WATER VALVES AND VALVE BOXES SHALL BE PER ABCWUA STD DWG NOS. 2326 & 2328
 - FIRE HYDRANTS SHALL BE INSTALLED PER ABCWUA STD DWG NO. 2340.

WATER SERVICE TABLE

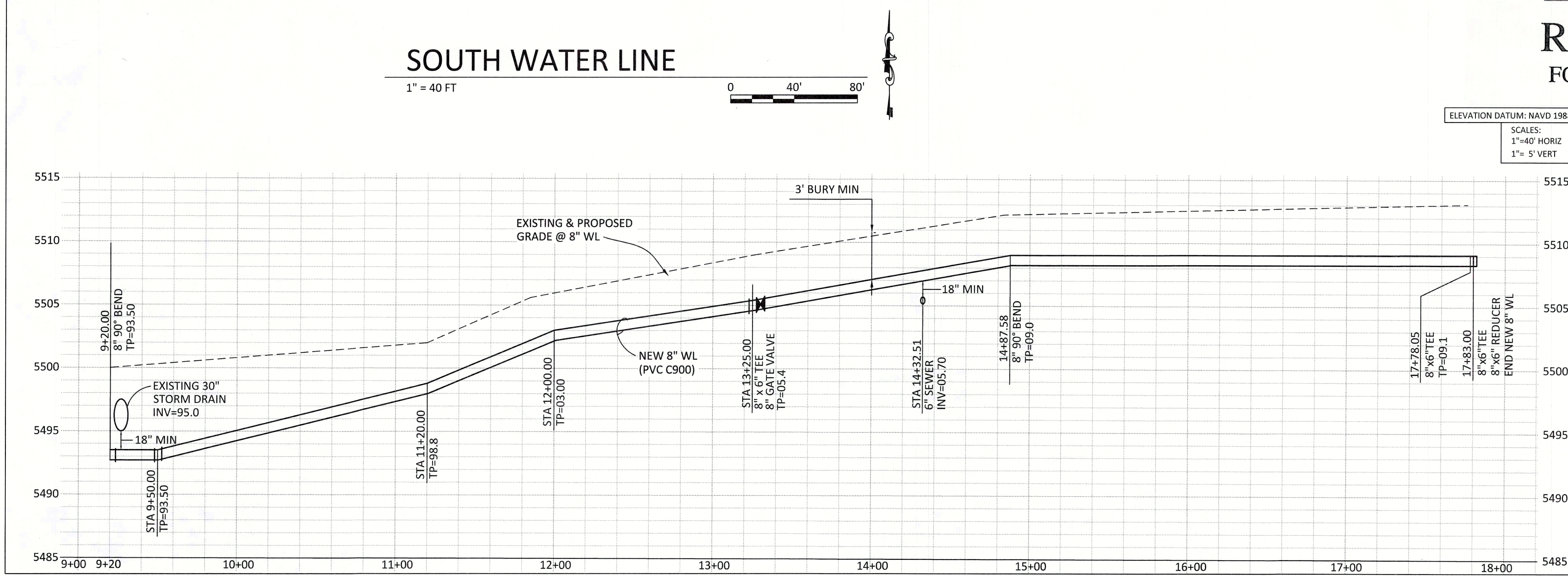
STATION	SIZE	NORTHING		EASTING		COMMENT
		X	Y	AS-BUILT	AS-BUILT	
17+80.00	2"	492410.53	557,127.06	1,491,870.11	1,557,668.95	DOMESTIC

GPS TABLE FOR WATER VALVES

WATER VALVE	NORTHING		EASTING	
	X	Y	AS-BUILT	AS-BUILT
WV #4	491,581.71	557,513.69	1,491,586.48	1,557,513.27
WV #5	491,581.66	557,515.74	1,491,582.67	1,557,517.22
WV #6	491,868.50	557,682.09	1,491,886.34	1,557,686.96
WV #7	491,868.69	557,672.69	1,491,890.84	1,557,686.99
WV #8	491,870.75	557,682.21	1,491,885.87	1,557,666.81

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: JACSON MIDDLE SCHOOL WATER LINE P & P Albuquerque, New Mexico	
Design Review Committee APPROVED JUN 12 2017 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUN 26 2017 CITY ENGINEER
City Project No. 902080	Zone Map No. J-21
Sheet: 7	Of 8

AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION		FIELD NOTES		NO. DATE REVISIONS/REMARKS		BY	
CONTRACTOR	DATE:	ACS BM '15-H20 1989' AN ALUMINUM DISK	SET FLUSH WITH THE TOP OF CURB.	BY	High Mesa Consulting Group	May 2014		12/17	AS BUILT SURVEY	CAC	
WORK STAKED BY	DATE:	THE STATION IS LOCATED IN THE MEDIAN AT THE SOUTH EDGE OF THE INTERSECTION OF EUBANK BLVD NE AND SNOWHEIGHTS BLVD. NE									
INSPECTOR'S APPROVAL	DATE:	ELEV = 5477.43 FEET (NAVD 1988)									
FIELD VERIFICATION BY	DATE:	N: 1,493,740.533									
DRAWING CORRECTED BY	DATE:	E: 1,555,770.127									
MICRO-FILM INFORMATION	DATE:										
RECORDED BY	DATE:										
NO.	NO.										



SECTION 33 05 26.23
UTILITY IDENTIFICATION TRACE WIRE

PART 1 GENERAL
1.1 SUMMARY

- A. This technical specification covers the requirements for the installation of a conductive trace wire during the installation of water distribution, sewer and effluent (reuse) pipelines and appurtenances. The trace wire will be used for locating the pipelines, laterals, services and appurtenances with an electronic trace wire locator after installation.

1.2 MEASUREMENT AND PAYMENT

- A. Payment for the work in this section shall be considered incidental to the pipeline being traced.

1.3 REFERENCES

- A. Where all or part of a Federal, ASTM, ANSI, AWWA, City of Albuquerque Standard Specifications for Public Works Construction, etc. is incorporated by reference in these specifications, the reference standard shall be the latest edition and revision.

1.4 SUBMITTALS

- A. The Contractor shall submit the manufacturer's data on materials furnished that indicate compliance with the specifications regarding materials used.

1.5 QUALITY ASSURANCE

- A. The products shown in this specification shall be used as approved on the Albuquerque Bernalillo County Water Utility Authority's Approved Product List (APL), or Engineer approved equal.

PART 2 PRODUCTS

2.1 TRACE WIRE

- A. Open Trench Installation - #12 AWG high strength copper clad steel (CCS) wire with minimum 450 pound break load and minimum 30 mil HDPE insulation thickness.
- B. Directional Drilling/Boring Installation - #12 AWG high strength CCS wire with minimum 1,150 pound break load, with minimum 30 mil HDPE insulation thickness.
- C. Pipe Bursting/Slip Lining Installation - High strength 7 x 7 stranded CCS wire with 4,700 pound break load, with minimum 50 mil HDPE insulation thickness.

2.2 CONNECTORS

- A. Tee Connections - Single 3-way locking waterproof connector for 12 AWG. Connectors shall be approved by manufacturer for direct burial.
- B. Cross Connections - Single 4-way locking waterproof connector for 12 AWG or two 3-way locking waterproof connectors for 12 AWG with a short jumper wire. Connectors shall be approved by manufacturer for direct burial.
- C. Necessary Splices - Single 3-way direct bury lug connector or twist connector rated up to 50 volts filled with dielectric silicone sealant to seal out moisture and corrosion and prevent uninsulated wire exposure. Connectors shall be approved by manufacturer for direct burial.
- D. Non-locking friction fit, twist on or taped connectors are prohibited.

2.3 TEST STATIONS

- A. All trace wire test stations shall be made of corrosion-resistant materials and shall be equipped with 2-terminals, a flange to prevent the test station from sinking, and a locking cast iron cap with an encapsulated magnet for ease of locating the test station. The test station shall be specifically manufactured for trace wire access/testing.
- B. All trace wire test stations must include a manually interruptible conducting/connection link between the terminal(s) for the trace wire connection and terminal for the grounding anode wire connection.

2.4 GROUNDING ANODE

- A. All grounding anodes shall be made of magnesium, with a pointed end to enable direct driving into the ground, specifically manufactured for this purpose. The anode shall come factory equipped with an HDPE cap and 20 feet of factory installed #12 AWG CCS wire with 30 mil HDPE coating (minimum 20 ft.) rated for direct burial at 30 volts with 21% conductivity. The wire shall have a minimum 282 pound break load.

2.5 COLOR CODING

- A. Trace wire and test station caps shall be color coded per APWA standards for the specific utility being marked.

PART 3 EXECUTION

3.1 OVERVIEW

- A. Trace wire shall be installed in such a manner as to be able to properly trace all pipelines and services, as applicable, without loss or deterioration of signal or without the transmitted signal migrating off the trace wire in the locations outlined below.
- Water: The wire on all water mains and services and hydrants per the Standard Drawings.
 - Sewer: On all sewer mains per the Standard Drawings.
 - Effluent (Reuse): On all effluent mains per the Standard Drawings.

3.2 INSTALLATION

- A. Trace Wire:
- Trace wire shall be installed in the same trench and inside bored holes and casing with pipe during pipe installation.
 - The trace wire shall be securely bonded together at all wire joints with an approved watertight connector to provide electrical continuity, and it shall be accessible at all trace wire access points.
 - Trace wire connectors shall be installed in a manner to prevent any uninsulated wire exposure.
 - Except for approved spliced-in repair or replacement connections, trace wire shall be continuous and without splices between each trace wire access point. For required splices, either 3-way direct bury lug or twist connectors, both filled with dielectric silicone sealant, shall be used. Spliced wires must be knotted prior to being inserted in the connector to prevent separation from the connector in case the trace wires are stretched during backfilling operations.
 - Trace wire systems must be installed as a single continuous wire, except where using approved connectors. No looping or coiling of wire is allowed.
 - No breaks or cuts in the trace wire or trace wire insulation shall be permitted.
 - Trace wire installation shall be performed in such a manner that allows proper access for connection of line tracing equipment, proper locating of wire without loss or deterioration of low frequency (512 Hz) signal for distances in excess of 1,000 linear feet, and without distortion of signal caused by multiple wires being installed in close proximity to one another.
 - Any damage occurring during installation of the trace wire must be immediately repaired by removing the damaged wire, and installing a new section of wire with approved connectors. Taping and/or spray coating shall not be allowed.
 - Trace wire shall be laid flat on top of the pipe and securely affixed in 6-foot intervals with tape or plastic ties so as not to shift or be damaged during backfilling and excavation operations.
 - In occurrences where an existing trace wire is encountered on an existing utility that is being extended or tied into, the new trace wire and existing trace wire shall be connected using approved splice connectors, and shall be properly grounded at the splice location as specified.
 - Trace wire shall be attached to all appurtenances on the north or east side.
 - At service saddles, the trace wire shall not be allowed to be placed between the saddle and the main.
 - For sanitary sewer systems, lay mainline trace wire continuously, by-passing around the outside of manholes/structures on the north or east side.
 - For main line intersections and for service line connections, the main line trace wire shall not be cut.
 - All main line trace wires must be interconnected in intersections, at main line tees and main line crosses. At tees, the three wires shall be joined using a single 3-way locking connector. At crosses, the four wires shall be joined using a 4-way locking connector. Use of two 3-way connectors with a short jumper wire between them is an acceptable alternative.
 - All conductive and non-conductive water service lines shall include trace wire with a grounding anode installed in the meter box.
 - At the point of connection between a conductive main with a non-conductive main, the trace wire shall be properly connected to the conductive pipe with a cad weld or approved equivalent. Trace wire welds shall be completely sealed with the use of an approved mastic type sealer specifically manufactured for underground use. Mastic shall be applied in a thick coat a minimum of one-quarter inch (1/4") thick and shall be protected from contamination by the backfill material with the use of a plastic membrane.
 - Attach trace wire to PEX service piping per the manufacturer's recommendations.
 - Trace wire termination points on all mains must terminate at an approved grade level/inground trace wire test station.
 - Trace wire termination points on all service laterals/stubs must terminate at an approved trace wire test station located directly above the utility, at the edge of the road right-of-way.

B. Test Stations:

- All trace wire termination points must utilize an approved trace wire test station and be properly grounded (See Grounding).
- Termination points include water meter boxes/vaults, fire hydrants, sewer wet wells, force main discharge manholes, force main cleanouts, force main valve locations and low pressure sewer main appurtenances (i.e. manholes).
- All grade level/in-ground test stations shall be appropriately identified with "water", "sewer" or "reuse" cast into the cap and APWA color coded.
- A minimum of 2 ft. of excess/slack wire is required in all trace wire test stations after meeting final elevation. Group and zip-tie excess wire. Do not coil.
- Test stations shall not be spaced greater than 2,500 feet apart.
- At hydrants, the trace wire must terminate at an approved grade level/in-ground trace wire test station in hydrant concrete pad.

C. Grounding:

- Trace wire must be properly grounded at all termination points/dead ends.
- Grounding of trace wire shall be achieved by use of a drive-in magnesium grounding anode rod buried at the same depth as the trace wire.
- The grounding anode shall be installed in a direction 180 degrees opposite of the trace wire, at the maximum possible distance.
- The grounding anode wire shall be connected to the identified (or bottom) terminal on all test stations.
- Where the grounding anode wire will be connected to a trace wire test station, a minimum of 2 ft. of excess/slack wire is required after meeting final depth.
- When grounding the trace wire in areas where the trace wire is continuous and neither the mainline trace wire nor the grounding anode wire will be terminated at/above grade, install grounding anode directly beneath and in-line with the trace wire. Do not coil excess wire from grounding anode. In this installation method, the grounding anode wire shall be trimmed to an appropriate length before connecting to trace wire with a mainline to lateral lug connector.

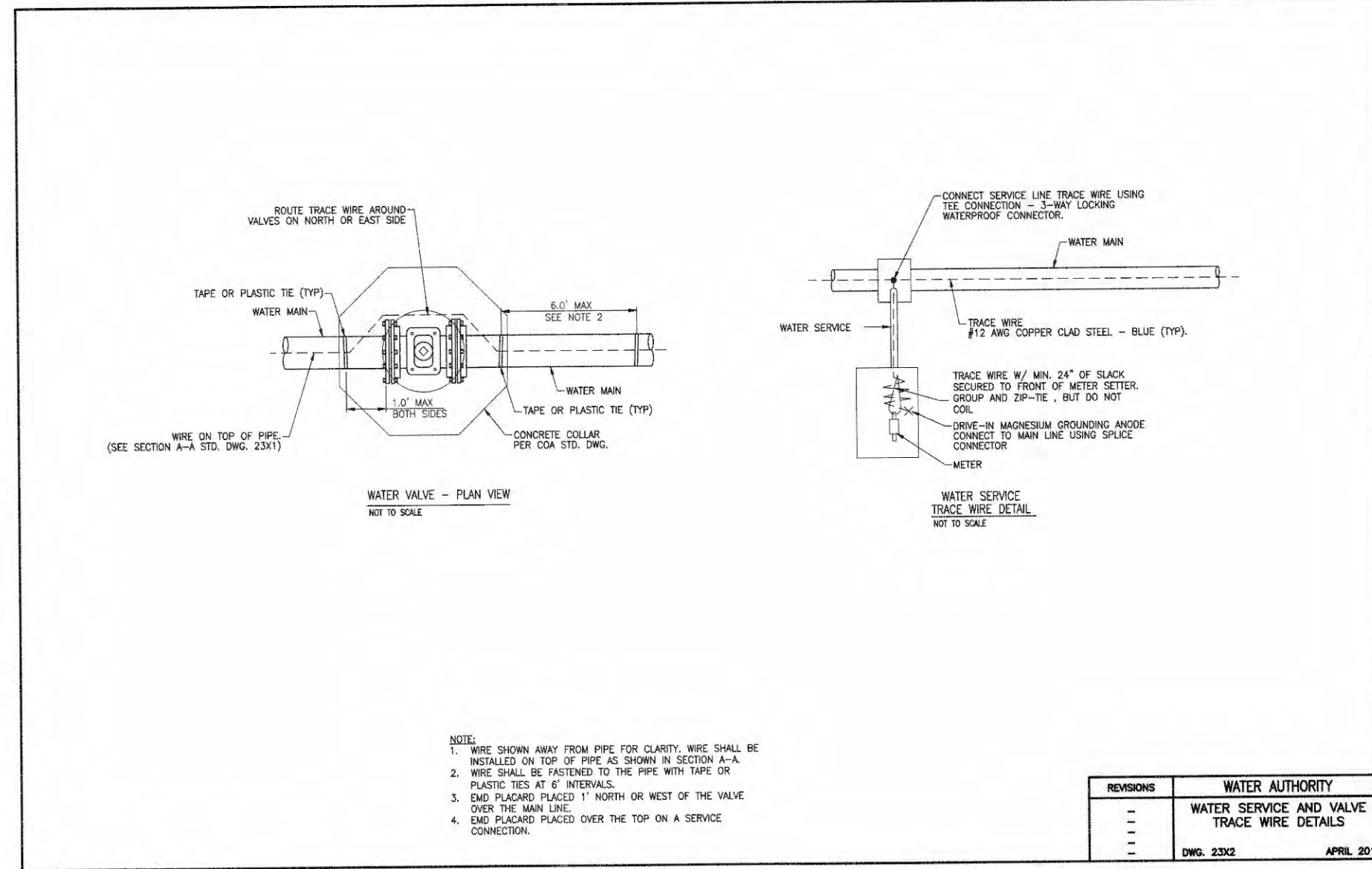
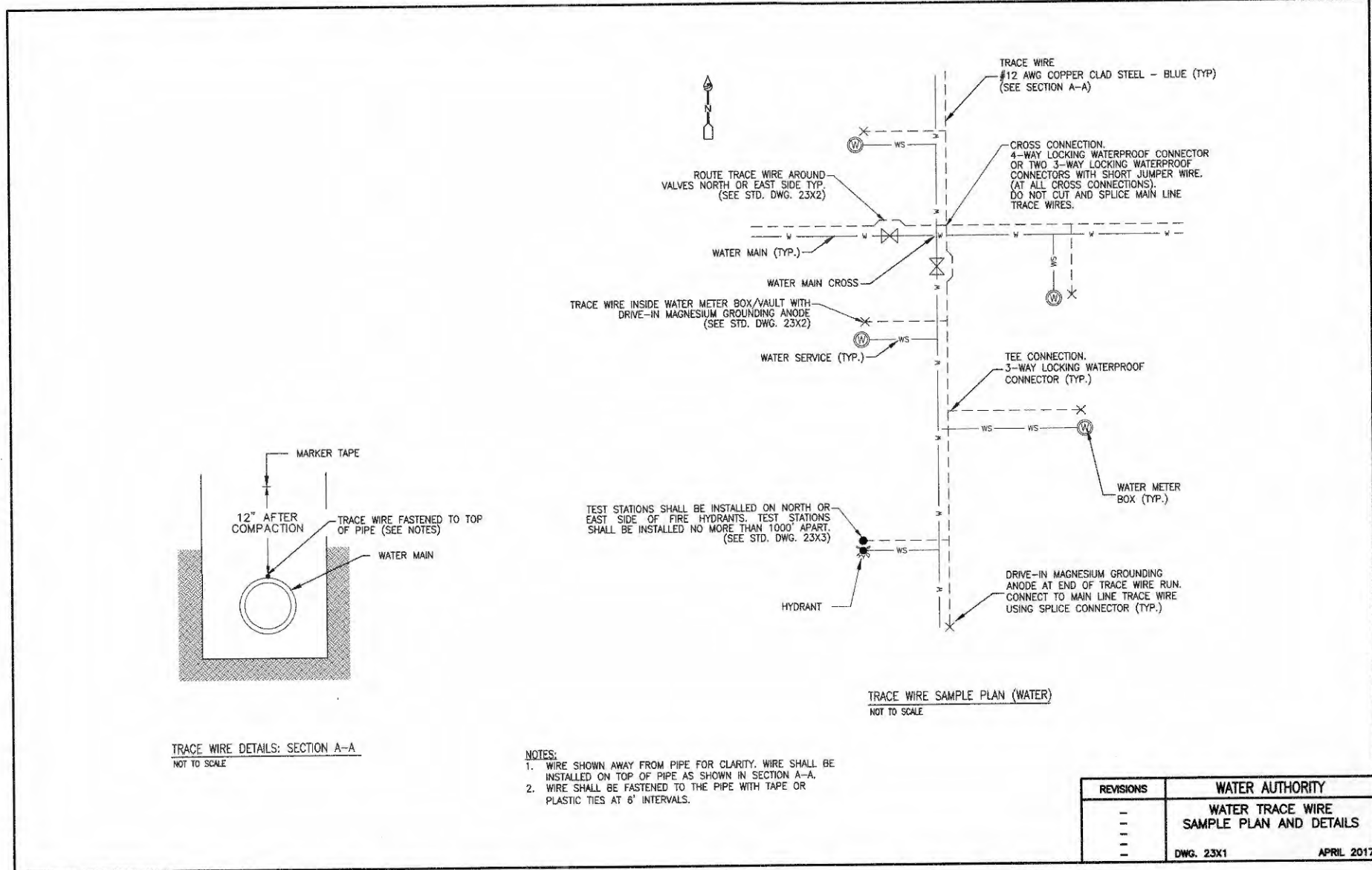
3.3 TESTING REQUIREMENTS

- A. Contractor shall perform a continuity test on all trace wire in the presence of the Engineer or the Engineers' representative. If the trace wire is found to be not continuous upon testing, the Contractor shall repair or replace the failed segment of the wire, and shall be responsible for the cost of any trenching, backfill, repaving and other improvements necessary to complete the trace wire repair. Contractor is encouraged to test trace wire prior to backfill so any issues can be addressed prior to backfill. Passing test results shall be provided for all pipe segments within the Engineer of Record's as-built data and plan set. To pass the continuity test, the following conditions must be met:
- Continuity test shall be performed by using a metallic locator with audible tone and numeric values for certification of the facility locations and shall be identifiable between access points.
 - The wire shall be accessible at all access points and be identifiable between access points.
 - Depth readings must be accurate and consistent to within 15 (depth to diameter ratio).

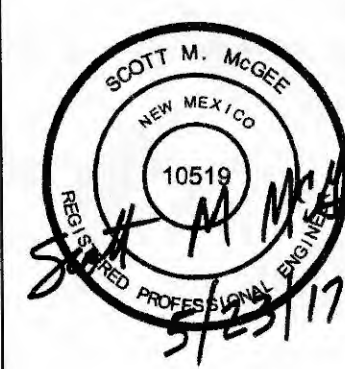
3.4 WARRANTY

- A. The product(s) and work shall be warranted against defects in material and workmanship for a period of one year. The warranty period shall begin after final inspection and acceptance by the Engineer and Owner.

END OF SECTION



AS BUILT INFORMATION		BENCH MARK		SURVEY INFORMATION		BY		REVISIONS/REMARKS		DESIGNED BY:		DATE:	
CONTRACTOR	DATE:	WORK STAKED BY	DATE:	INSPECTOR'S APPROVAL	DATE:	FIELD VERIFICATION BY	DATE:	DRAWING CORRECTED BY	DATE:	MICRO-FILM INFORMATION	RECORDED BY	DATE:	NO.
BM '7-G17' BEING A BRASS CAP		ELEV = 55125.716 (NAVD 1988)		Cartesian Surveying, Inc.		July 2016				SM		DATE:	
										CB		DATE:	
										SM		DATE:	



RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY			
TITLE: JACKSON MIDDLE SCHOOL TRACER WIRE SPECIFICATIONS & DETAILS Albuquerque, New Mexico 87107			
Design Review Committee	City Engineer Approval	MO. / DAY / YR.	MO. / DAY / YR.
APPROVED JUN 1 2 2017 DESIGN REVIEW COMMITTEE	APPROVED JUN 2 6 2017 CITY ENGINEER		
City Project No.	Zone Map No.	Sheet:	Of
902080	J-21	8	8