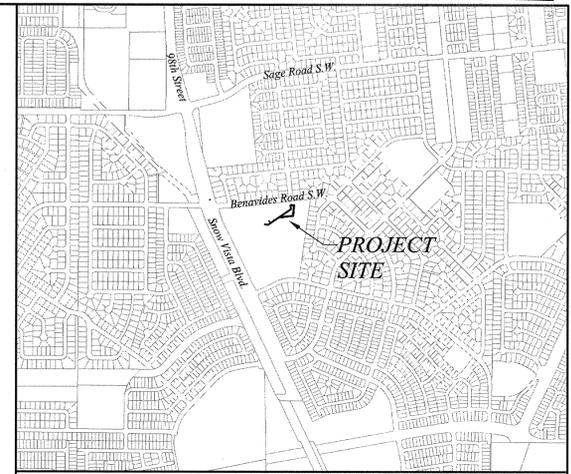


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 216-16456-179-2011

SCANNED BY
 PLANNING

CONSTRUCTION PLAN FOR TRUMAN MIDDLE SCHOOL WATERLINE IMPROVEMENTS ALBUQUERQUE, NEW MEXICO



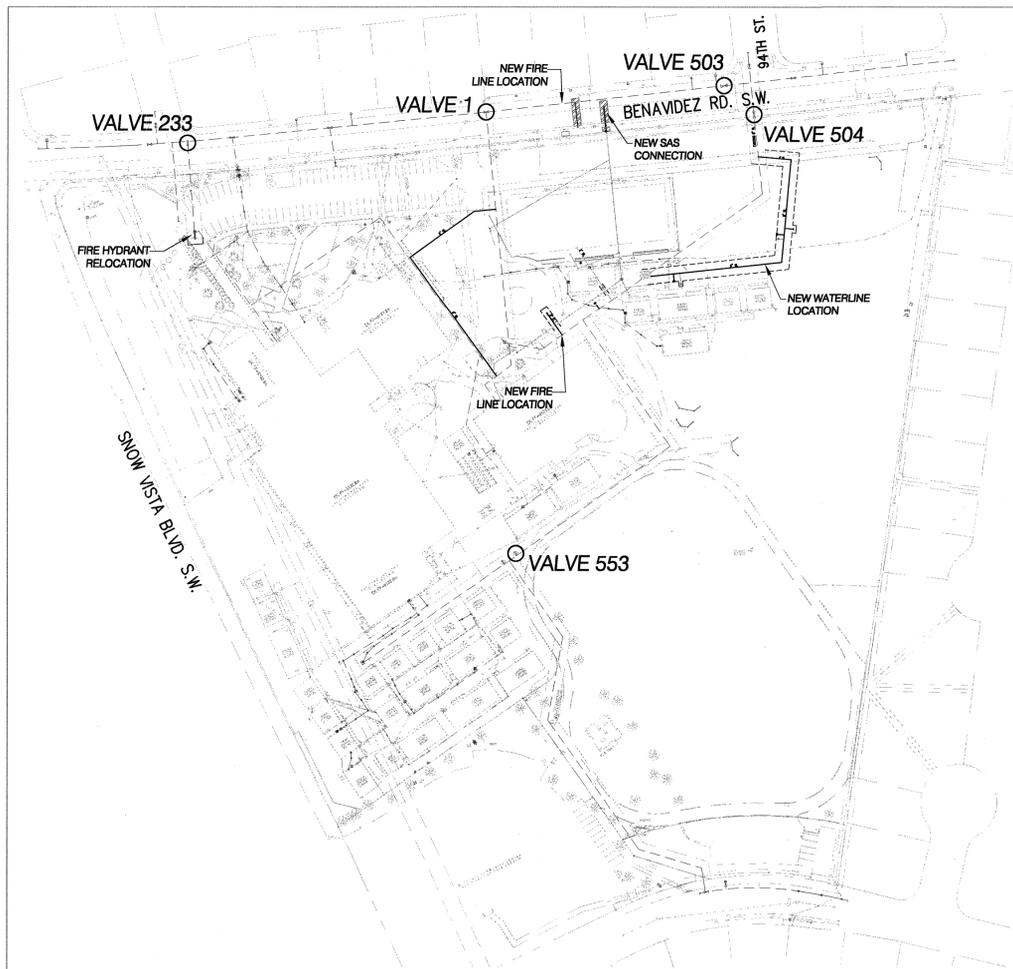
VICINITY MAP
 ZONE ATLAS MAP NO. M-9-Z

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7 INCLUDING AMENDMENT #1, AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- IN LIEU OF EMDs, ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE "STANDARD SPECIFICATIONS".

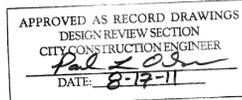
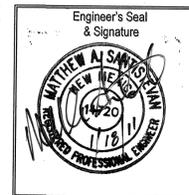
INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	OVERALL SITE PLAN AND SURVEY CONTROL
3-4	WATERLINE PLAN AND PROFILE SHEETS
5	FIRE HYDRANT RELOCATION, 6" FIRE LINE AND 6" SAS SERVICE CONNECTION



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Matthew A. Santistevan of the firm of Bohannan Huston, Inc., 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 shown on these drawings (Truman Middle School Waterline Improvements) 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 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 the contractor, T.A. Cole & Sons General Contractors, Inc. and their contractor, Will Plotner, Jr., NMPS 14271.



SURVEYOR'S CERTIFICATION

I, WILL PLOTNER 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. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS.

Will Plotner
 WILL PLOTNER JR., NMPS 14271



WATER SHUT-OFF PLAN:

FOR CONNECTION	VALVE CLOSED
BENAVIDEZ RD. ENTRANCE	VALVE # 504
INTERIOR OF SITE SW END	VALVE # 553
FIRE HYDRANT RELOCATION	VALVE #233
BENAVIDES NEW FIRE LINE	VALVES #1 & 503

CONTRACTOR WILL BE RESPONSIBLE FOR FLUSHING, DISINFECTING, AND TESTING THE LINES AS REQUIRED BY THE ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA).

WATER SHUT-OFF REQUIREMENTS:

CONTRACTOR WILL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF CONNECTIONS. AT LEAST SEVEN (7) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) 857-8200 TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN. CONTRACTOR SHALL NOT OPERATE VALVES ON THE PROJECT.

Bohannan Huston
 ENGINEERING ■ SPATIAL DATA ■ ADVANCED TECHNOLOGIES
 Courtyard | 7500 Jefferson St. NE | Albuquerque, NM 87109-4335

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
[Signature]		DRC Chairman	[Signature]	5/21/10	APPROVED FOR CONSTRUCTION		
		Transportation	[Signature]	05/20/10			
		Water/Wastewater	[Signature]	5-20-10			
		Hydrology	[Signature]	5/20/10			
		Parks					
		Const. Coord.					
City Project No.		645679			Sheet 1 of 5		

PROJECT BENCHMARK
A.C.S. "11_M9"
N=6,159.25
E=4,422.05
ELEV.=5139.30

T.B.M. #1
N=6,047.27
E=4,473.84
ELEV.=5138.72

T.B.M. #2
N=6,211.07
E=5665.40
ELEV.=5111.94

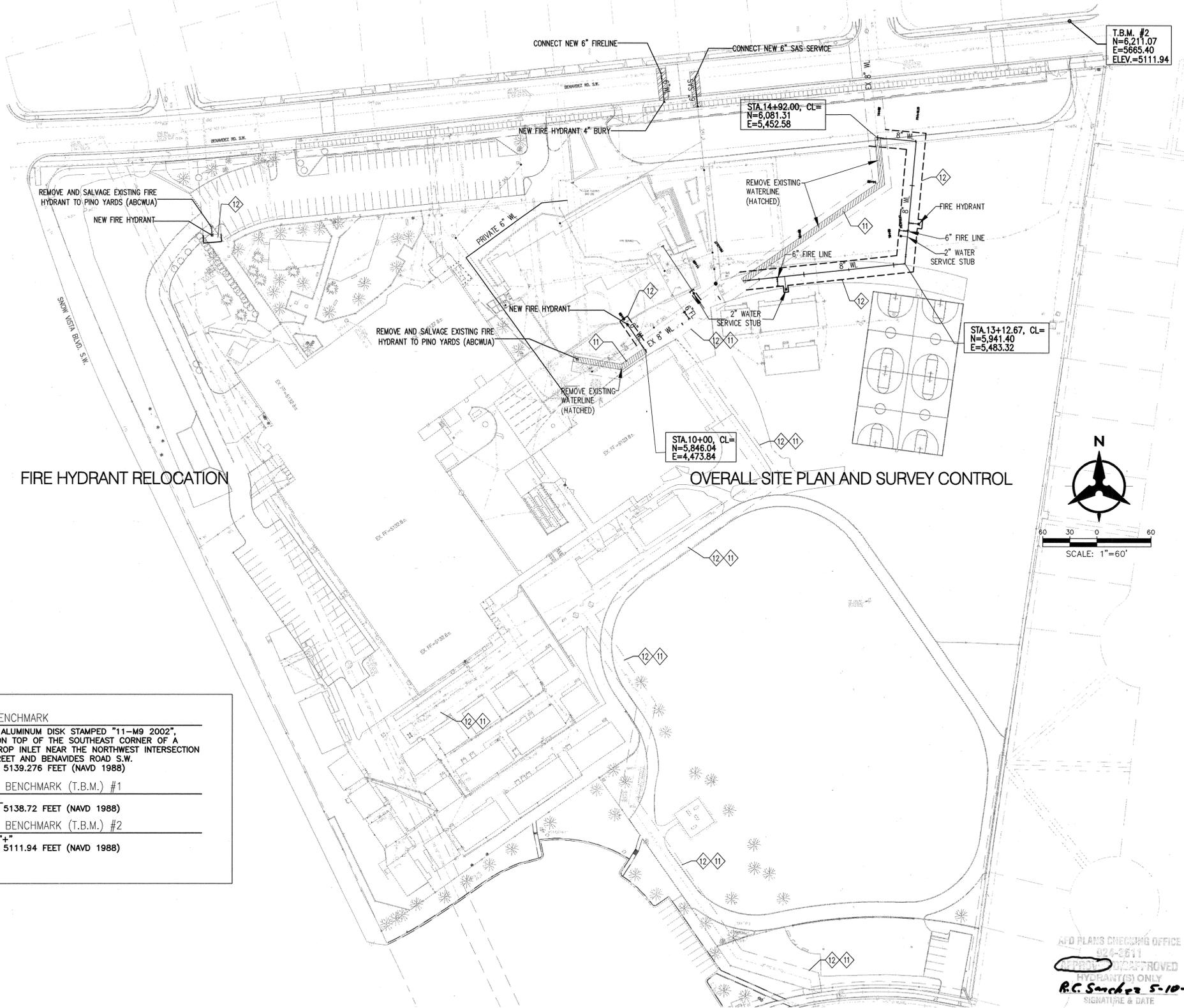
PROJECT BENCHMARK
ACS 3 1/4" ALUMINUM DISK STAMPED "11-M9 2002",
SET FLUSH ON TOP OF THE SOUTHEAST CORNER OF A
CONCRETE DROP INLET NEAR THE NORTHWEST INTERSECTION
OF 98TH STREET AND BENAVIDES ROAD S.W.
ELEVATION = 5139.276 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.) #1
SET P.K. NAIL
ELEVATION = 5138.72 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.) #2
A CHISELED "+"
ELEVATION = 5111.94 FEET (NAVD 1988)

FIRE HYDRANT RELOCATION

OVERALL SITE PLAN AND SURVEY CONTROL



GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SAS & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESES)
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9. MH RIMS & CATCH BASIN INLET ELEVATIONS, FIRE HYDRANT & FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT GRADES.
10. ALL WATERLINE APPURTENANCES SHALL USE JOINT RESTRAINTS.

- 11. 20' PUBLIC WATERLINE EASEMENT GRANTED BY DOCUMENT FILED 09-21-1990, BOOK 90-15, PAGES 7122-7125, DOC. #9073815 TO BE RELEASED
- 12. WATERLINE EASEMENT GRANTED BY DOCUMENT FILED: DATE: _____

LEGEND

- DOUBLE WATER METER
- SINGLE WATER METER
- WATER LINE SHUTOFF VALVE
- WATER LINE TEE
- SAS LATERAL
- SAS MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER LINE TO BE REMOVED AREA

MATERIALS:

SAS LINE: SDR-35 PVC
WATER LINE: C900-PVC DR18

RESTRAINED JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS		
	(4')	(6')	(8')
11.25' H BEND	2'	2'	3'
22.50' H BEND	4'	4'	5'
45' H BEND	8'	8'	11'
90' H BEND	18'	20'	26'
GATE VALVE/CAP	39'	55'	72'

NOTE:

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Bohannon & Huston

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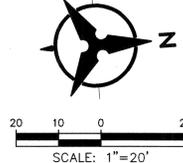
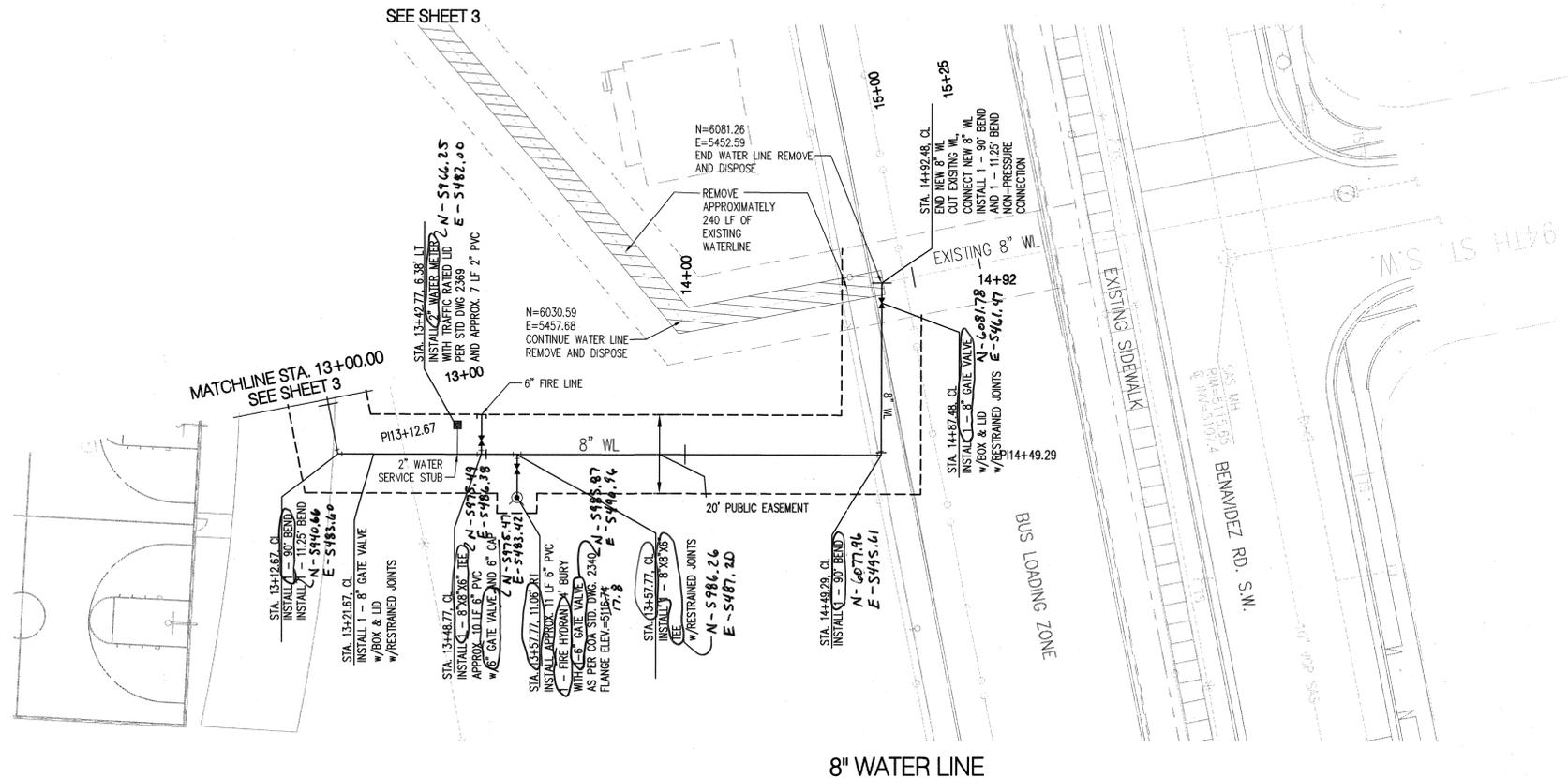
CITY OF ALBUQUERQUE
DEPARTMENT OF
MUNICIPAL DEVELOPMENT

TRUMAN MIDDLE SCHOOL
OVERALL SITEPLAN AND SURVEY CONTROL

DESIGN REVIEW COMMITTEE APPROVE MAY 21 2010	CITY ENGINEER APPROVAL APPROVE NOV 09 2010	MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	DESIGN REVIEW COMMITTEE	LAST DESIGN UPDATE	

CITY PROJECT NO. 645679	ZONE MAP NO. M-9-Z	DRAWING NO.	SHEET 2	OF 5
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AS-BUILT INFORMATION CONTRACTOR: ZLC DATE: 1-13-11	BENCH MARKS A.C.S. CONTROL SURVEY MONUMENT "11_M9" NEW MEXICO STATE PLANE COORDINATES CENTRAL ZONE (NAD 83) AS PUBLISHED ELEVATION = 5139.276 (NAVD 88)	SURVEY INFORMATION FIELD NOTES NO. _____ DATE _____ BY _____	ENGINEER'S SEAL 	REVISIONS NO. DATE BY DESIGN	DATE 05/2010 DATE 05/2010 DATE 05/2010
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LEGEND

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- SINGLE WATER METER
- ⊗ WATER LINE SHUTOFF VALVE
- ⊥ WATER LINE TEE
- ⊥ SAS LATERAL
- SAS MANHOLE
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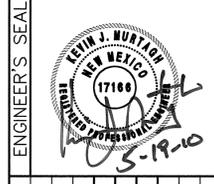
MATERIALS:
SAS LINE: SDR-35 PVC
WATER LINE: C900-PVC DR18

RESTRAINED JOINT TABLE

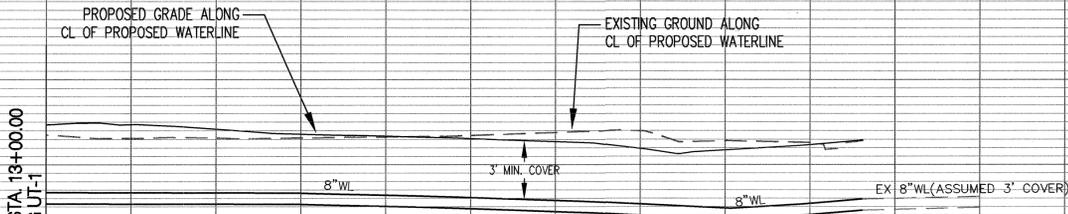
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AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	AC.S. CONTROL SURVEY MONUMENT	DATE	NO.	BY
CONTRACTOR: TAC	DATE: 1/21/10	NEW MEXICO STATE PLANE COORDINATES	DATE: 1/21/10		
INSPECTOR: BHI	DATE: 1/21/10	CENTRAL ZONE (NAD 83) AS PUBLISHED	DATE: 1/21/10		
VERIFICATION BY: BHI	DATE: 1/21/10	ELEVATION = 5139.276 (NAVD 88)	DATE: 1/21/10		
DRAWINGS BY: BHI	DATE: 1/21/10				
SURVEYED BY: BHI	DATE: 1/21/10				
MICRO-FILM INFORMATION					
NO.	DATE	NO.	DATE	NO.	DATE



ELEVATIONS ARE IN NAVD 88	
5140	5140
5135	5135
5130	5130
5125	5125
5120	5120
5115	5115
5110	5110
5105	5105
5100	5100
5095	5095

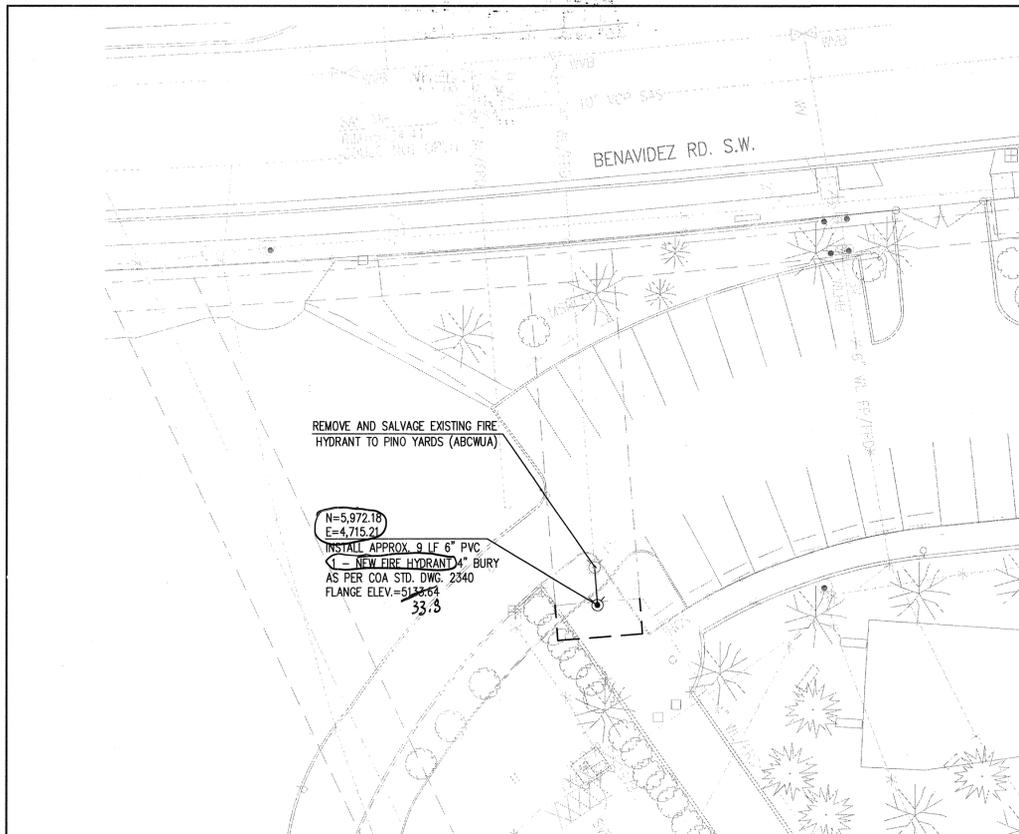


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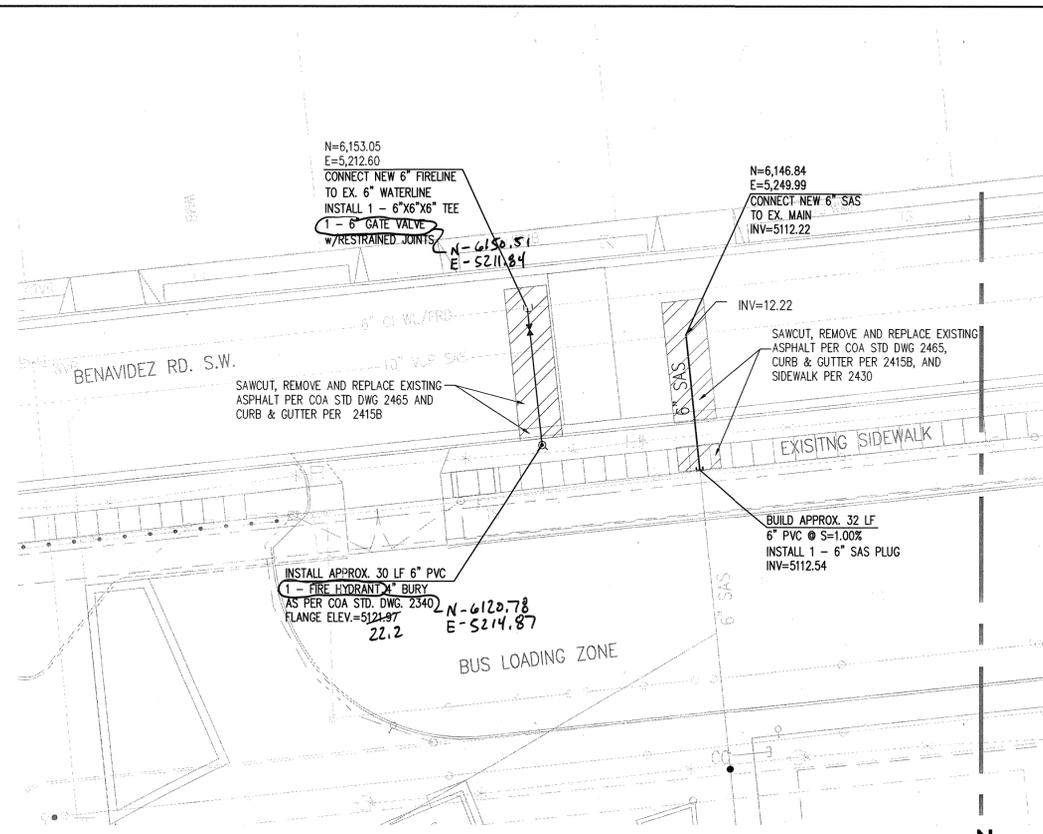
CITY OF ALBUQUERQUE
 DEPARTMENT OF MUNICIPAL DEVELOPMENT

TRUMAN MIDDLE SCHOOL
 8" WATER LINE
 PLAN AND PROFILE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE MAY 21 2010	APPROVE NOV 09 2010		
DESIGN REVIEW COMMITTEE	REVIEW COMMITTEE		



FIRE HYDRANT RELOCATION



NEW 6" FIRE LINE AND 6" SAS CONNECTION

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Will R. ...

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Bohannon & Huston
Engineering & Spatial Data & Advanced Technologies
1700 Jefferson St. NE Albuquerque, NM 87109-4335

CITY OF ALBUQUERQUE
DEPARTMENT OF
MUNICIPAL DEVELOPMENT

TRUMAN MIDDLE SCHOOL
FIRE HYDRANT RELOCATION, 6" FIRE LINE
AND 6" SAS CONNECTION

DESIGN REVIEW COMMITTEE APPROVE MAY 21 2010 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVE NOV 09 2010 DESIGN REVIEW COMMITTEE	MO./DAY/YR.	MO./DAY/YR.
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CITY PROJECT NO. 645679	ZONE MAP NO. M-9-Z	DRAWING NO.	SHEET 5 OF 5
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