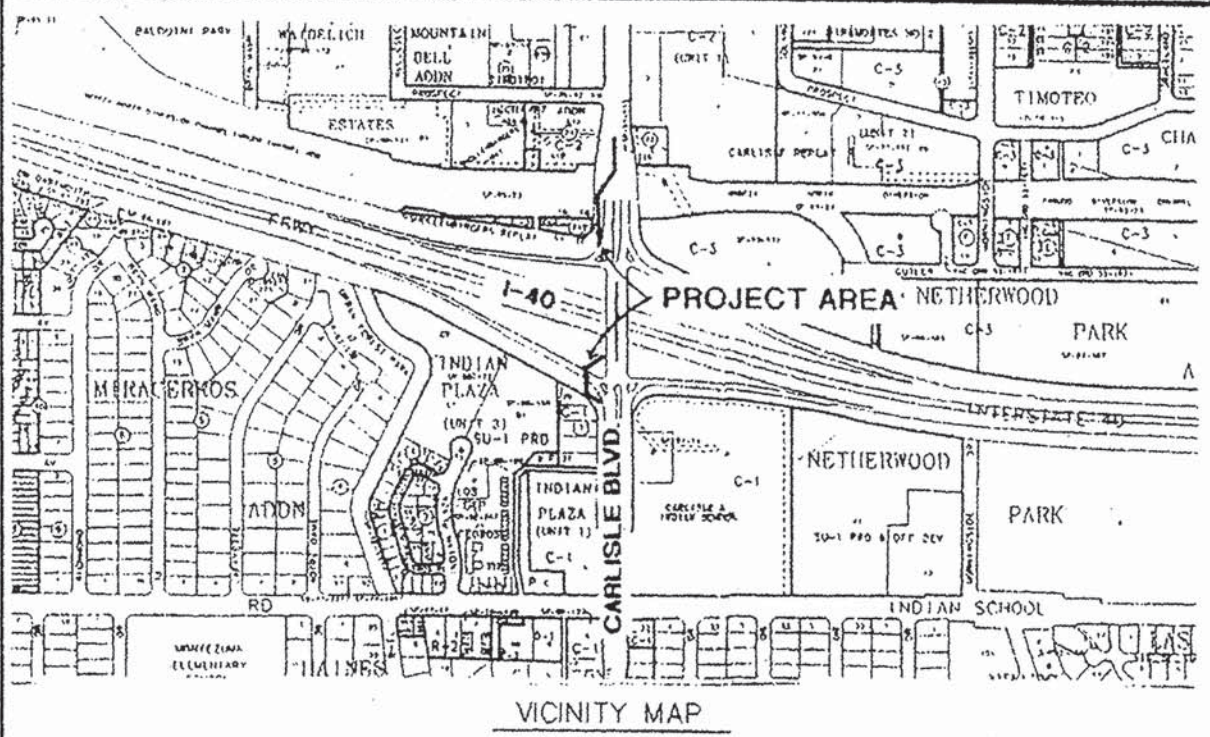


CONSTRUCTION PLANS
FOR
CARLISLE AND I-40
WATER LINE PROJECT
ALBUQUERQUE, NEW MEXICO



NOTICE TO CONTRACTORS

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND SHALL INCLUDE UPDATE No.6
- 2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 4. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2561) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- 6. 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. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. 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 SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
- 7. ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- 8. ALL UTILITY WORK SHALL BE DONE BY A CITY OF ALBUQUERQUE APPROVED CONTRACTOR.
- 9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☐ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

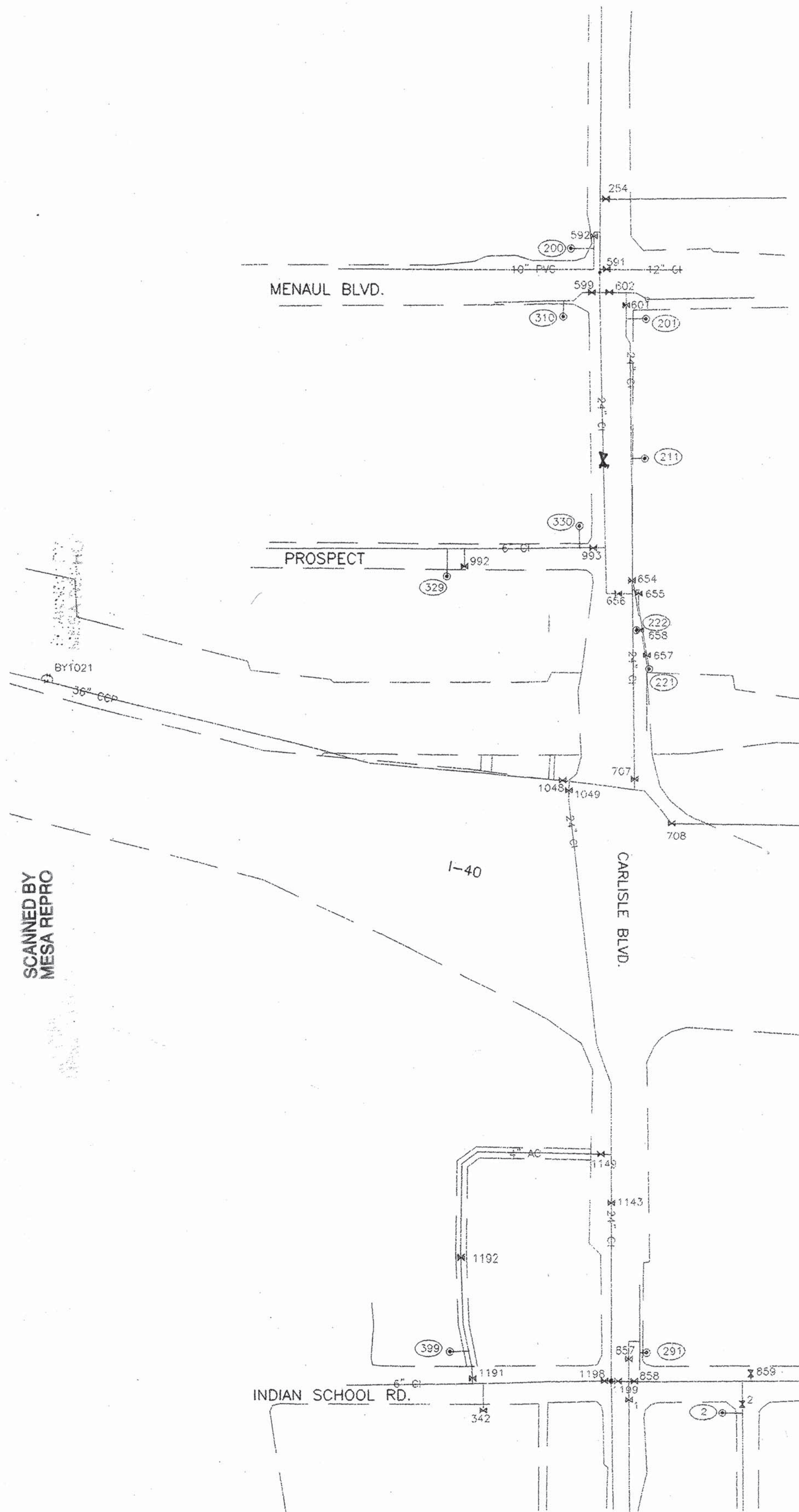
INDEX	
SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	WATER SHUT OFF PLAN
3	PLAN AND PROFILE SHEET
4a, 4b, 4c, 4d	PLAN AND PROFILE SHEET
5	VALVE PIT DETAILS
6	VALVE PIT DETAILS

Approval of record drawings See SHT. 4C

Bohannon & Huston
7500 JEFFERSON NE
ALBUQUERQUE
NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS
SURVEYORS SOFTWARE DEVELOPERS

REV. SHEETS	2, 3	DATE	6-21-98	ENGINEER	K. H. H.	DATE	4/26/98
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRG Chairman		Billie J. Grochowski	4-17-98	APPROVED FOR CONSTRUCTION	
		Transportation		N. K. H.	4-14-98		
		Water/Wastewater		K. H. H.	4-17-98		
		Hydrology		Carol H. H.	4-14-98		
		Const. Mngmt.					
City Project No.		575891		Sheet		1	Of 6

SCANNED BY
MESA REPRO



WATER SHUT OFF PLAN
SCALE: 1" = 200'

WATER SHUT OFF REQUIREMENTS:

ONE MONTH PRIOR TO MAKING THE SHUT-OFF REQUEST THE CONTRACTOR SHALL MAKE A TRIAL SHUT-OFF REQUEST TO ALLOW THE WATER UTILITY DIVISION TO FIND AND EXERCISE VALVES NEEDED FOR THE ACTUAL SHUT-OFF.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF THE WATER SHUT-OFF. AT LEAST TEN (10) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN. IN ORDER TO COMPLETE THIS CONNECTION, THE FOLLOWING VALVES MUST BE CLOSED BY WATER SYSTEMS PERSONNEL:

- SOUTH OF I-40
1. CLOSE VALVES 1143, 1149 AND 1049 FOR BOTH CONNECTIONS OF NEW 610mm (24") WATER LINE SOUTH OF I-40 TO EXISTING 610mm (24") WATERLINE.
- NORTH OF I-40 (THIS WORK MUST BE DONE IN THIS SEQUENCE)
1. CLOSE VALVES 1143, 1149, 1021, 707 AND 708 FOR INSTALLATION OF VALVE PIT AND CONNECTION TO EXISTING 610mm (24") WATER LINE AND BOTH CONNECTIONS TO EXISTING 914mm (36") WATER LINE. KEEP VALVES CLOSED UNTIL CONNECTION OF NEW 610mm (24") WATER LINE IS MADE TO EXISTING 610mm (24") WATER LINE NORTH OF THE CHANNEL (NOTE 2). THIS WORK CAN ONLY BE DONE DURING THE MONTHS AS STATED BELOW.
 2. WHILE VALVES IN NOTE 1. ARE CLOSED ALSO CLOSE VALVES 654, 655 AND 656 FOR CONNECTION OF NEW 610mm (24") WATER LINE AND CAP TO THE EXISTING 610mm (24") WATER LINE NORTH OF THE CHANNEL. KEEP VALVE 707 CLOSED AFTER COMPLETION OF WORK. THIS WORK CAN ONLY BE DONE DURING THE MONTHS AS STATED BELOW.
 3. CLOSE VALVES 708 AND NEW VALVE ON 914mm (36") EAST OF THE NEW CROSS IN THE VALVE PIT OR REMOVAL OF VALVE 707 AND INSTALLATION OF BLIND FLANGE. THIS WORK CAN ONLY BE DONE DURING THE MONTHS AS STATED BELOW.
 4. CLOSE NEW VALVE ON 914mm (36") EAST OF THE NEW CROSS IN THE VALVE PIT, VALVES 748, 793, 1051 AND 1037 FOR REMOVAL OF VALVE GATES IN VALVE 708. THIS WORK CAN ONLY BE DONE DURING THE MONTHS AS STATED BELOW.

WATER SHUT-OFFS INVOLVING COLLECTOR, TRANSMISSION, AND MAJOR DISTRIBUTION LINES MAY NOT BE PERMITTED DURING THE MONTHS OF MAY THROUGH SEPTEMBER DUE TO THE DEMAND ON THE SYSTEM. CONSTRUCTION SCHEDULES WILL NEED TO BE COORDINATED WITH THE WATER UTILITY DIVISION WHEN THESE TYPES OF WATER LINES ARE TO BE WORKED ON.

THE CONTRACTOR WILL BE REQUIRED TO ARRANGE HIS CONSTRUCTION PROGRAM WITH A VIEW OF MAINTAINING CONTINUOUS SERVICE TO WATER USERS, FROM EXISTING FACILITIES, TO THE FULLEST EXTENT POSSIBLE. HE SHALL, AT ALL TIMES, WITHHOLD CONSTRUCTION WORK, WHERE ANY CONFLICT IN THE SERVICE REQUIREMENTS OCCUR. WATER SHUT-OFFS WILL BE LIMITED TO THE TIME REQUIRED FOR THE ACTUAL TIE IN TO THE EXISTING LINE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SERVICE TO IMPACTED USERS FOR SHUT-OFFS LISTING OVER TWO HOURS. TEMPORARY SERVICE SHALL REQUIRE THE APPROVAL OF THE WATER UTILITY DIVISION.

GENERAL NOTES

1. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
4. ALL ELECTRIC, TELEPHONE, CABLE TV AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.
6. ALL TRENCHES AND EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED ACCORDING TO OSHA (29 CFR 1926.650) CONSTRUCTION SAFETY AND HEALTH STANDARDS. JOB SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. RESTRAINED JOINTS SHALL ALSO BE PROVIDED AS SPECIFIED IN THE PLANS AND IN THE TABLES ON SHEETS 3&4.
8. THE CONTRACTOR SHALL KEEP OR DISPOSE OF ALL REMOVED WATER LINES AND FITTINGS. COST IS INCIDENTAL TO THE PROJECT.
9. THE CONTRACTOR SHALL PROVIDE TEN (10) WORKING DAYS NOTICE TO COA WATER UTILITY DIVISION BEFORE WATER SHUT OFF.
10. REPLACEMENT OF ARTERIAL ASPHALT SHALL BE IN ACCORDANCE WITH DETAIL ON SHEET 2-15. THIS WORK WILL BE MEASURED AND PAID FOR USING ITEM 405000-DETOUR PAVEMENT CONSTRUCTION.

EXISTING UTILITIES

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, POT-HOLING, UTILITY MAPS AND PREVIOUS CONSTRUCTION DRAWINGS PROVIDED TO OR OBTAINED BY THE ENGINEER. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES IN THE IMMEDIATE VICINITY OF THE PROJECT MAY BE SLIGHTLY DIFFERENT FROM THE LOCATIONS SHOWN ON THESE DRAWINGS. IF ADDITIONAL LINES ARE ENCOUNTERED THEY SHALL BE EXPOSED AND IDENTIFIED BY THE CONTRACTOR. WHERE ADDITIONAL LINES AND/OR DIFFERING LOCATIONS ARE ENCOUNTERED THE CONTRACTOR SHALL REQUEST THAT THE CONSTRUCTION OBSERVER MAKE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES. PNM (ELEC. AND GAS) US WEST AND/OR CABLE TV SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF THEIR EXISTING LINES. ALL LINES ENCOUNTERED THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED TO CLEAR CONSTRUCTION (IF ACTIVE) AND SHALL BE REMOVED (IF INACTIVE) BY THE CONTRACTOR UNDER THIS CONTRACT. ALL BIDDERS ARE CAUTIONED TO INVESTIGATE SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS. ALL EXISTING PIPING SHALL HAVE A MINIMUM EARTH COVERAGE AND DEPTHS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE MINIMUM COVERAGE DUE TO NEW GRADES OR CONSTRUCTION. CONTRACTOR SHALL PAY FOR ANY AND ALL COSTS OF PERMITS, ETC., AS REQUIRED BY LOCAL GOVERNING UTILITIES ENGINEERING OFFICIALS.

MEASUREMENT AND PAYMENT WILL BE AS INDICATED BY THE FOLLOWING ITEMS AND SECTION 663 OF THE NMSHD STANDARD SPECIFICATIONS. CONSTRUCTION OF THE WATERLINE ITEMS SHALL BE AS INDICATED ON SHEETS 3 THROUGH 6 OF 6.

ESTIMATED WATERLINE QUANTITIES				
	ITEM	UNIT	TOTAL	USE
210000	STRUCTURE EXCAVATION AND BACKFILL FOR BRIDGES	cu m	247	247
511000	STRUCTURAL CONCRETE, CLASS A	cu m	39	39
540065	REINFORCING BARS GRADE 420	kg	3060	3060
663524	DUCTILE IRON PIPE - 609.6 mm *	m	283.42	284
663536	DUCTILE IRON PIPE - 914.4 mm *	m	7	7
663550	CAST IRON OR DUCTILE IRON FITTINGS	kg	7389	7389
663747	BUTTERFLY VALVE - 609.6 mm	EACH	3	3
663749	BUTTERFLY VALVE - 914.4 mm	EACH	2	2
663781	TIE TO EXISTING 609.6 mm WATERLINE	EACH	4	4
663782	TIE TO EXISTING 914.4 mm WATERLINE	EACH	2	2
663870	BORING & JACKING	m	76.5	77
663885	CONCRETE BLOCKING	cu m	10.96	11
663898	GATE VALVE - 203.2 mm	EACH	3	3

* CONCRETE CYLINDER PIPE MAY BE SUBSTITUTED FOR DUCTILE IRON PIPE EXCEPT IN THE VALVE PIT. PAYMENT WILL STILL BE MADE UNDER THE RESPECTIVE DUCTILE IRON PIPE ITEM.

SPECIAL PROVISIONS

1. MODIFYING SECTION 128 (C.O.A.) - CONCRETE CYLINDER PIPE (2/5/98)
2. MODIFYING SECTION 710 (C.O.A.) - BORING, DRILLING AND JACKING (2/5/98)

INCIDENTAL WORK AND MATERIALS

1. SAFETY LADDER, FALL ARRESTOR, SAFETY HARNESS AND LADDER UP SAFETY POST
2. ALUMINUM ACCESS DOOR
3. SUMP, GRATE AND GRAVEL FILL AT SUMP
4. HOIST BEAM, TWO TROLLEYS, PULLING LUGS AND ANCHORS
5. ADJUSTABLE PIPE SUPPORTS
6. TAPPING SLEEVES
7. TRAFFIC SIGNAL BOX RELOCATION
8. REVISION TO PRIVATE LAWN SPRINKLER SYSTEM
9. WATERLINE REMOVAL OR GROUT FILL

ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MAY NOT BE COMPLETE. PARAGRAPH 104.1 OF THE STANDARD SPECIFICATIONS APPLIES. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIAL REQUIRED BY SPECIAL PROVISIONS, SERIALS (STANDARD DRAWINGS), SUPPLEMENTAL SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.



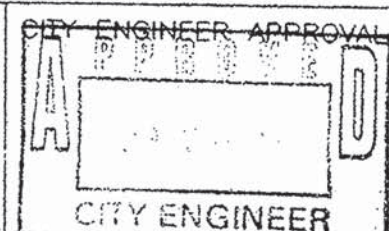
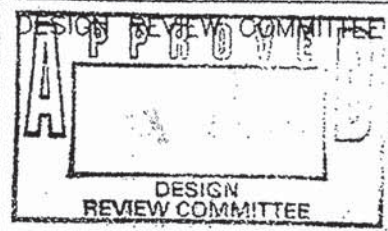
Bohman + Huston

Contract No.
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109

DIVISIONS: PLANNING, PHOTOGRAPHIC
SURVEYS, SURVEYING, DESIGN

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

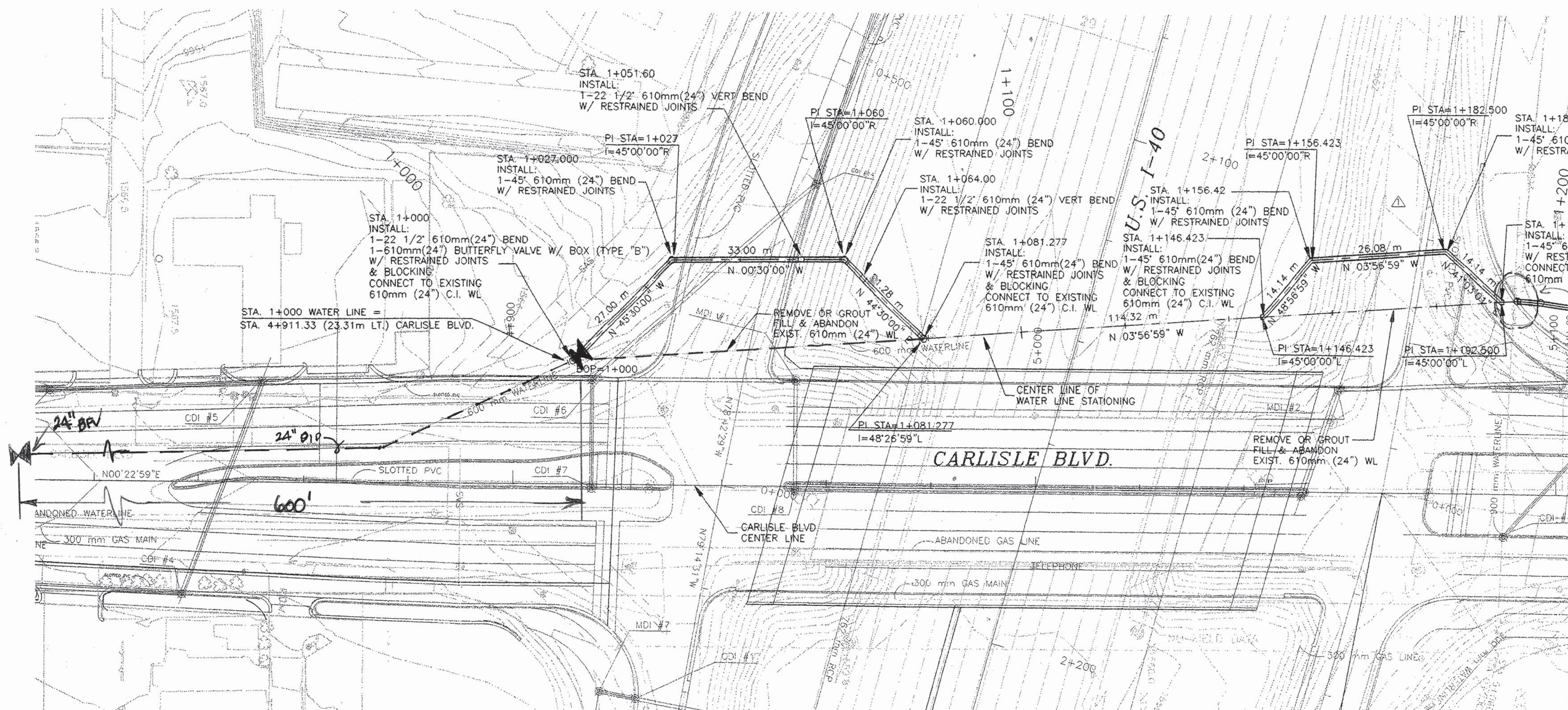
CARLISLE & I-40 WATER LINE
WATER SHUT OFF PLAN, GENERAL NOTES & QUANTITIES



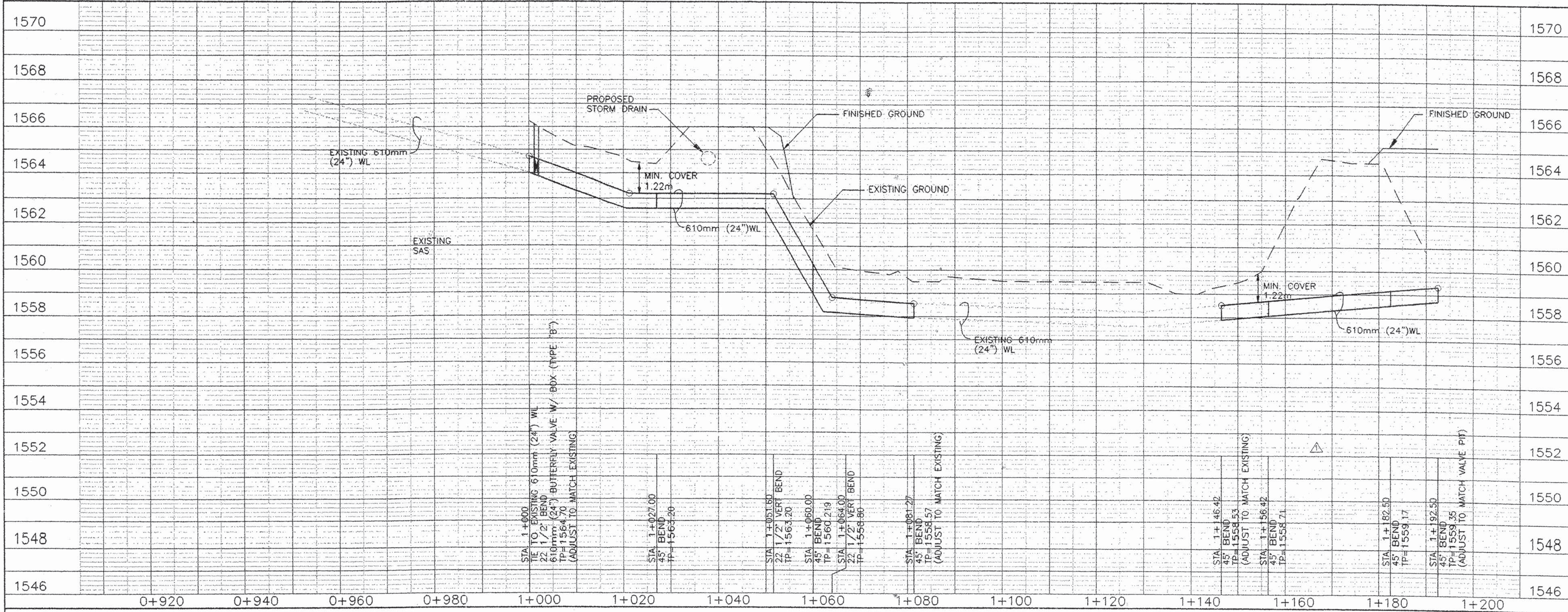
LAST DESIGN
UPDATE

CITY PROJECT NO. 575891 ZONE MAP NO. H-16 SHEET 2 OF 6

SCANNED BY
MESA REPRO



CARLISLE & I-40 WATER LINE



- NOTES:
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF BUSINESSES OR OTHER CONTRACTORS ON SITE.
 - CONTRACTORS SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
 - ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION, AS AMENDED THROUGH UPDATE NO. 6.
 - ALL VALVES DESIGNATED AS BEING REMOVED BY THE PLANS SHALL BE KEPT OR DISPOSED OF BY THE CONTRACTOR.

RESTRAINED JOINT TABLE				
STA.	FITTING	Δ	LENGTH *	
1+000.000	H BEND	22 1/2"	2.44 m	
1+027.000	H BEND	45"	6.40 m	
1+051.600	V BEND(DOWN)	22 1/2"	5.49 m	
1+060.000	H BEND	45"	5.18 m	
1+064.000	V BEND(UP)	22 1/2"	2.74 m	
1+081.277	H BEND	45"	8.23 m	
1+146.423	H BEND	45"	2.44 m	
1+156.423	H BEND	45"	4.27 m	
1+182.500	H BEND	45"	2.44 m	
1+192.500	H BEND	45"	6.10 m	

* ALL JOINTS WITHIN THIS DISTANCE OF THE FITTING MUST BE RESTRAINED.

THRUST BLOCKING DIMENSIONS TO BE ADDED TO CITY OF ALBUQUERQUE STD. DWG. 2320				
STA.	FITTING	b	h	
1+000.000	22 1/2" BEND	1.19 m	2.32 m	
1+081.277	45" BEND	2.01 m	3.99 m	
1+146.423	45" BEND	2.01 m	3.99 m	

Δ



Bohannon & Huston
Civil Engineers
7500 JEFFERSON NE
ALBUQUERQUE, NM 87109
DESIGNER: PLANNING, PROJECTS/ARCHITECTS
CONSULTING: SURVEY, UTILITIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

CARLISLE & I-40 WATER LINE
PLAN AND PROFILE SHEET

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO. 575891 ZONE MAP NO. H-16 SHEET 3 OF 6

STA. 1+195.59
INSTALL:
2-915 mm (36") BUTTERFLY VALVES
1-610 mm (24") BUTTERFLY VALVE
1-915 mm X 610 mm CROSS
REMOVE EXISTING 915 mm (36") VALVE (WEST)
CONNECT TO EXISTING 915 mm (36") FLANGE
REMOVE EXISTING 610 mm (24") VALVE (SOUTH)
CONNECT TO EXISTING 610 mm (24")
CONNECT TO EXISTING 915 mm (36") (EAST)
ALL FITTINGS THAT ARE NOT FLANGED
SHALL HAVE RESTRAINED JOINTS
SEE SHEET 5 FOR
VALVE PIT DETAILS
CONNECTION TO EXISTING
915 mm (36") (EAST) SHALL
BE PER C.O.A. STD.
DWG. NO. 2351

SEE INSET DETAIL

U.S. 1-40

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MESA REPRO

STA. 1+67.60, 78.88 m RT.
REMOVE GATES FROM VALVES
TO TAKE VALVES OUT OF
SERVICE WITHOUT REMOVING VALVES

STA. 1+200.00
INSTALL:
1-45° 610 mm (24") VERT. BEND
W/ RESTRAINED JOINTS
STA. 1+210.00
INSTALL:
1-45° 610 mm (24") VERT. BEND
W/ RESTRAINED JOINTS

DOVE & JACK 1.5 m (20' 7")
915 mm (36") STEEL CASING
W/ WALL THICKNESS = 9.525 mm
COORDINATE SPRINKLER
RELOCATION WITH
PROPERTY OWNER

STA. 1+286.50
INSTALL:
1-45° 610 mm (24") VERT. BEND
W/ RESTRAINED JOINTS
STA. 1+290.71
INSTALL:
1-45° 610 mm (24") VERT. BEND
W/ RESTRAINED JOINTS

STA. 1+293.34
INSTALL:
1-90° 610 mm (24") BENDS
W/ RESTRAINED JOINTS

STA. 1+340.37
INSTALL:
1-90° 610 mm (24") BEND
W/ RESTRAINED JOINTS

INSTALL:
1-610 mm X 610 mm (24") TEE
W/ RESTRAINED JOINTS
2-610 mm (24") BUTTERFLY VALVES
W/ RESTRAINED JOINTS
CONNECT TO EXISTING 610 mm (24") (NORTH)
REMOVE OR ABANDON & GROUT FILL SOUTH WL

INSTALL:
1-90° 610 mm (24") BEND
W/ RESTRAINED JOINTS

INSTALL:
1-610 mm X 610 mm (24") TEE
W/ RESTRAINED JOINTS
1-610 mm (24") BUTTERFLY VALVE W/ RESTRAINED JOINTS
CONNECT TO EXISTING 610 mm (24") (EAST)
REMOVE EXISTING 610 mm (24") VALVE BOX
REMOVE OR ABANDON & GROUT FILL WEST WL

STA. 1+340.37
DISCONNECT 610 mm (24") WL
INSTALL:
1-610 mm (24") 90° BEND AND
1-610 mm (24") BUTTERFLY VALVE W/ BOX (TYPE "B")
ON NORTH WL W/ RESTRAINED JOINTS AND BLOCKING
REMOVE OR ABANDON & GROUT FILL SOUTH WL

CARLISLE & I-40 WATER LINE

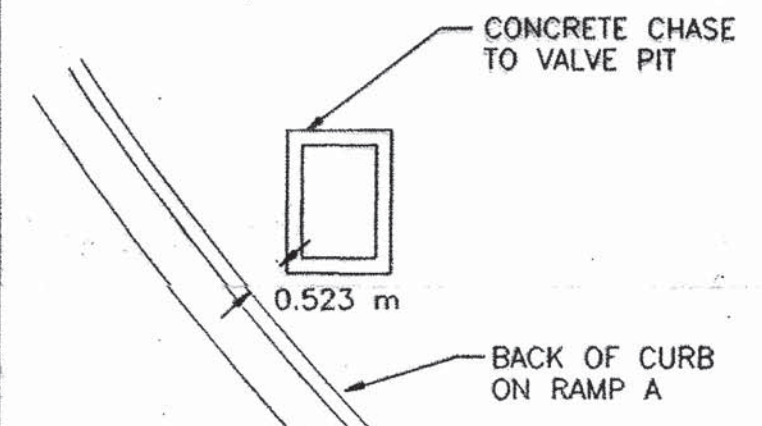
NOTE CONCERNING STATION 1+195.59

THE CONTRACTOR SHALL VERIFY THAT THE HATCH
LOCATION IS OUTSIDE OF THE ROADWAY BY
DETERMINING, IN THE FIELD, THE LOCATION OF THE
WATER LINE CROSS WITH RESPECT TO THE RAMP
CURB AND GUTTER. IN THE EVENT OF A CONFLICT,
THE CONTRACTOR SHALL NOTIFY THE PROJECT
MANAGER IMMEDIATELY AND PRIOR TO BEGINNING
WORK IN THIS AREA.

RESTRAINED JOINT TABLE			
STA.	FITTING	θ	LENGTH
1+205.000	V BEND (DOWN)	45°	12.50 m
1+210.000	V BEND (UP)	45°	1.52 m
1+286.500	V BEND (UP)	45°	1.21 m
1+290.710	V BEND (DOWN)	45°	1.31 m
1+293.340	H BEND	90°	14.63 m
1+326.580	H BEND	11 1/4°	1.22 m
1+340.370	H BEND	90°	13.72 m

* ALL JOINTS WITHIN THIS DISTANCE OF
THE FITTING MUST BE RESTRAINED.

THRUST BLOCKING DIMENSIONS TO BE ADDED TO CITY OF ALBUQUERQUE STD. DWG. 2320			
STA.	FITTING	b	h
1+340.370	90° BEND BLIND FLANGE	2.38 m	4.75 m



NOTE:
CONTRACTOR SHALL VERIFY IN THE FIELD
THE DIMENSION SHOWN ABOVE (0.523 m).
NOTIFY PROJECT MANAGER IF FOUND TO
BE LESS THAN NOTED.

INSET DETAIL

N.T.S.



Bohannon & Huston



7500 BROADWAY
ALBUQUERQUE
NEW MEXICO 87109
ENGINEERS, PLANNERS, PHOTOGRAMMETRISTS
SURVEYORS, SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

CARLISLE & I-40 WATER LINE PLAN AND PROFILE SHEET

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

MO./DAY/YR.

APR 7 2004

APR 17 2004

LAST
UPDATE

CITY PROJECT NO.

575891

ZONE MAP NO.

H-16

SHEET

OF

4A

6

SCALES: 1M = 500 m HOR
1M = 100 m VER

TPU-040-3(119)160

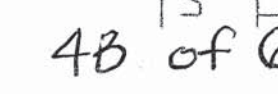
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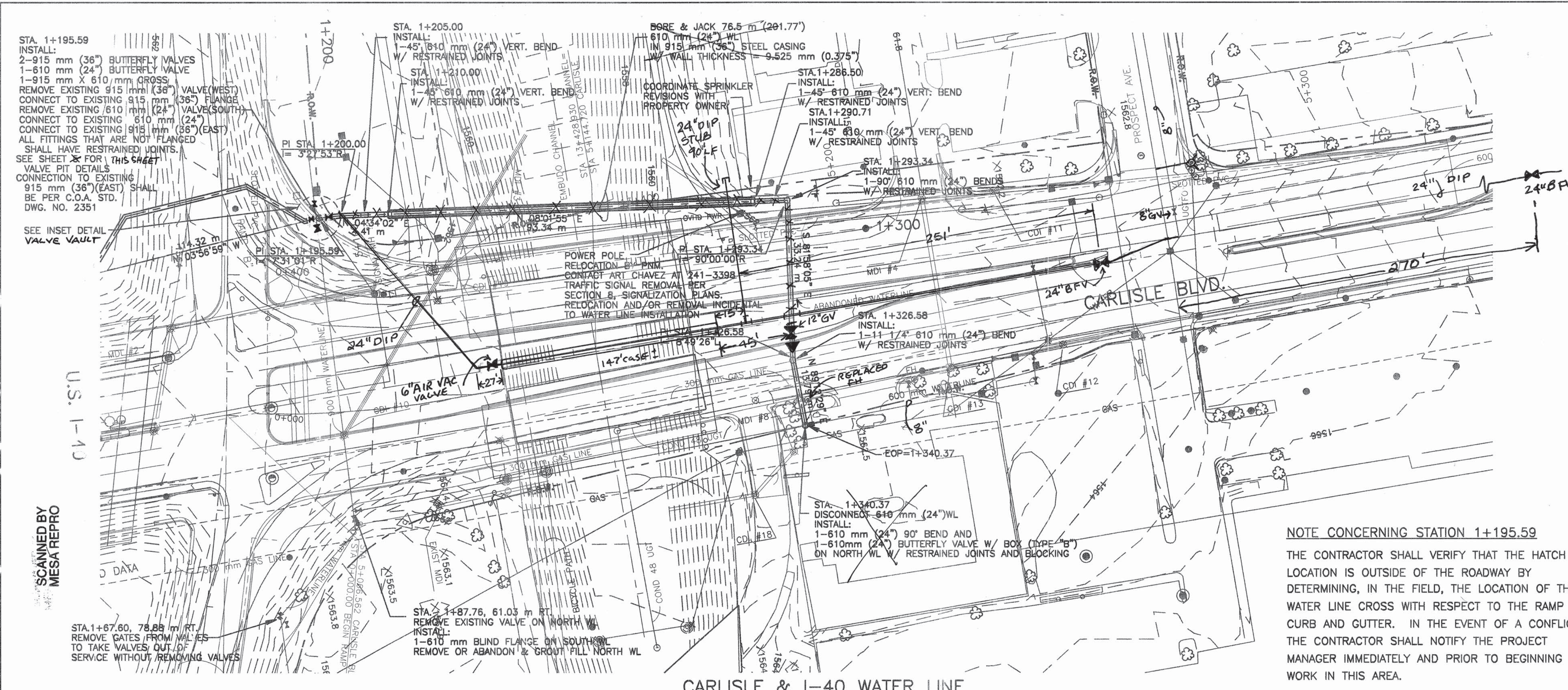


U.S. 1-40

SCANNED BY
MESA REPRO

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP
CARLISLE & I-40 WATER LINE PLAN AND PROFILE SHEET	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
	LAST DESIGN UPDATE 48 of 6
MO./DAY/YR.	MO./DAY/YR.





NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
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- CONTRACTORS SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
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- ALL VALVES DESIGNATED AS BEING REMOVED ON THE PLANS SHALL BE KEPT OR DISPOSED OF BY THE CONTRACTOR.

STA.	FITTING	LENGTH *
1+205.000	V BEND(DOWN)	45'
1+210.000	V BEND(UP)	45'
1+286.500	V BEND(UP)	45'
1+290.710	V BEND(DOWN)	45'
1+293.340	H BEND	90'
1+326.580	H BEND	1 1/4'
+340.370	H BEND	90'

* ALL JOINTS WITHIN THIS DISTANCE OF THE FITTING MUST BE RESTRAINED.

STA.	FITTING	b	h
1+340.370	90° BEND	2.38 m	4.75 m

NOTE CONCERNING STATION 1+195.59

THE CONTRACTOR SHALL VERIFY THAT THE HATCH LOCATION IS OUTSIDE OF THE ROADWAY BY DETERMINING, IN THE FIELD, THE LOCATION OF THE WATER LINE CROSS WITH RESPECT TO THE RAMP CURB AND GUTTER. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY AND PRIOR TO BEGINNING WORK IN THIS AREA.

INSET DETAIL

N.T.S.

CONCRETE CHASE TO VALVE PIT

BACK OF CURB ON RAMP A

NOTE: CONTRACTOR SHALL VERIFY IN THE FIELD THE DIMENSION SHOWN ABOVE (0.523 m). NOTIFY PROJECT MANAGER IF FOUND TO BE LESS THAN NOTED.

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Go Chong
DATE: 10/18/04

Bohannon & Huston
7500 JEFFERSON NE
ALBUQUERQUE
NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAPHICISTS
SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

CARLISLE & I-40 WATER LINE
PLAN AND PROFILE SHEET

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

CITY PROJECT NO. 575891

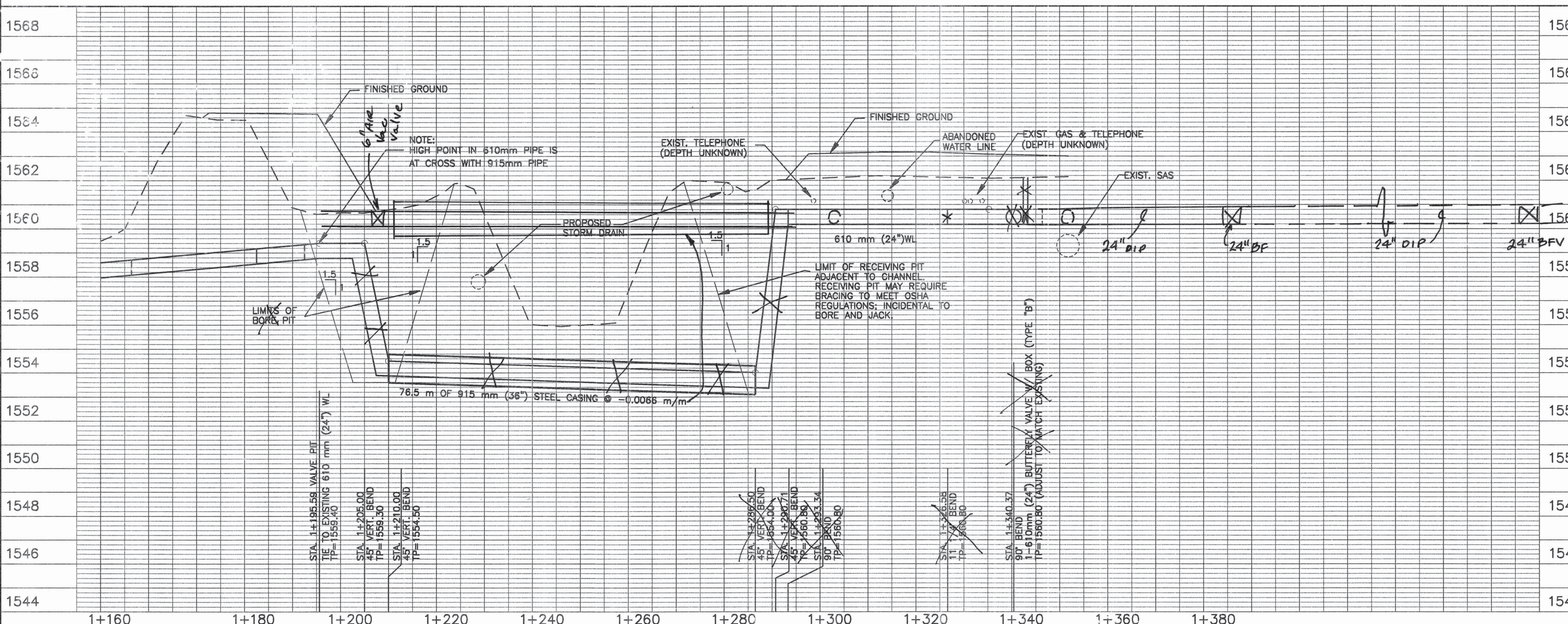
ZONE MAP NO. H-13

SHEET 4C

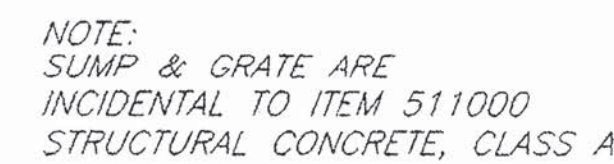
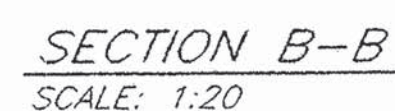
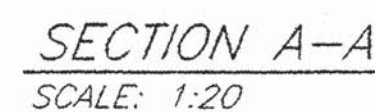
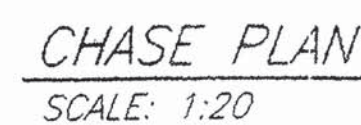
6

SCALES: 1" = 500 m HOR
1" = 100 m VER

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DATE: FEBRUARY 6, 1998



SCANNED BY
MESA REPRO



TYP. WALL PENETRATION DETAIL
N.T.S. SHOWING ADDITIONAL REINFORCING

TYPE 1

TYPE 2

TYPE 3

LOC	MARK	SIZE	NO. REQ'D	LENGTH	TYPE	REMARKS
VAULT	19M-B1	19	35	4.30	1	
	13M-B2	13	15	5.30	1	
	13M-B3	13	15	5.30	1	
	13M-B4	13	18	4.30	1	
	13M-B5	13	6	0.83	2	A=0.43, B=0.40
	16M-B6	16	62	1.35	2	A=1.00, B=0.35
	13M-T1	13	14	4.00	1	
	13M-T2	13	3	2.20	1	
	13M-T3	13	9	5.00	1	
	13M-T4	13	5	3.70	1	
	19M-T5	19	18	4.00	1	
	22M-T6	22	5	4.00	1	
	19M-T7	19	6	2.20	1	
	13M-T8	13	11	5.00	1	
	13M-T9	13	5	3.70	1	
	13M-T10	13	20	1.2	2	A=0.90, B=0.30
	13M-T11	13	28	1.6	1	
	16M-W1	16	32	5.14	3	A=3.94, B=0.60
	16M-W2	16	62	3.90	2	A=3.55, B=0.35
	16M-W3	16	32	4.00	1	
	16M-W4	16	56	3.15	1	
	16M-W5	16	64	5.00	1	
	16M-W6	16	32	1.35	1	BEND AS REQUIRED
	19M-W7	19	16	1.40	1	
CHASE	13M-C1	13	20	3.40	1	
	13M-C2	13	24	1.80	3	A=1.20, B=0.30
	13M-C3	13	24	1.70	1	

1. SPECIFICATIONS:
NMSHTD STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE
CONSTRUCTION, 1996 EDITION.
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
16TH EDITION.
2. SOIL PRESSURE:
EFP AT REST: 8.7 kN/m³
UNIT WT.: 18.9 kN/m³
3. MATERIALS:
CONCRETE: CLASS A $f'_c = 27.6 \text{ MPa}$ (CLASS F FLY ASH)
REINFORCING BARS: GRADE 420 REINFORCEMENT

THE FOLLOWING ITEMS ARE INCIDENTAL TO ITEM 511000, STRUCTURAL CONCRETE CLASS A:

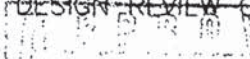
1. SAFETY LADDER, FALL ARRESTOR, SAFETY HARNESSSES, AND LADDER UP SAFETY POST.
2. ALUMINUM ACCESS DOOR
3. SUMP, GRATE AND GRAVEL FILL AT SUMP
4. HOIST BEAM, TWO TROLLEYS, PULLING LUGS, AND ANCHORS

210000	STRUCTURE EXCAVATION AND BACKFILL FOR BRIDGES	247 cu. m
511000	STRUCTURAL CONCRETE, CLASS A ($f'_c = 27.6 \text{ MPa}$)	39 cu. m
540060	REINFORCING BARS, GRADE 420	3105 kg.


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ENGINEERS PLANNERS PHOTOGRAMMETRISTS
SURVEYORS LANDSCAPE ARCHITECTS

CARLISLE & I-40 WATER LINE
VALVE PIT DETAILS

DESIGN REVIEW COMMITTEE		DESIGN UPDATE		MO./DAY/YR.		MO./DAY/YR.	
							
DESIGN REVIEW COMMITTEE		CITY ENGINEER					
CITY PROJECT NO.		ZONE MAP NO.		SHEET		OF	
5758.91		H-16				6 6	