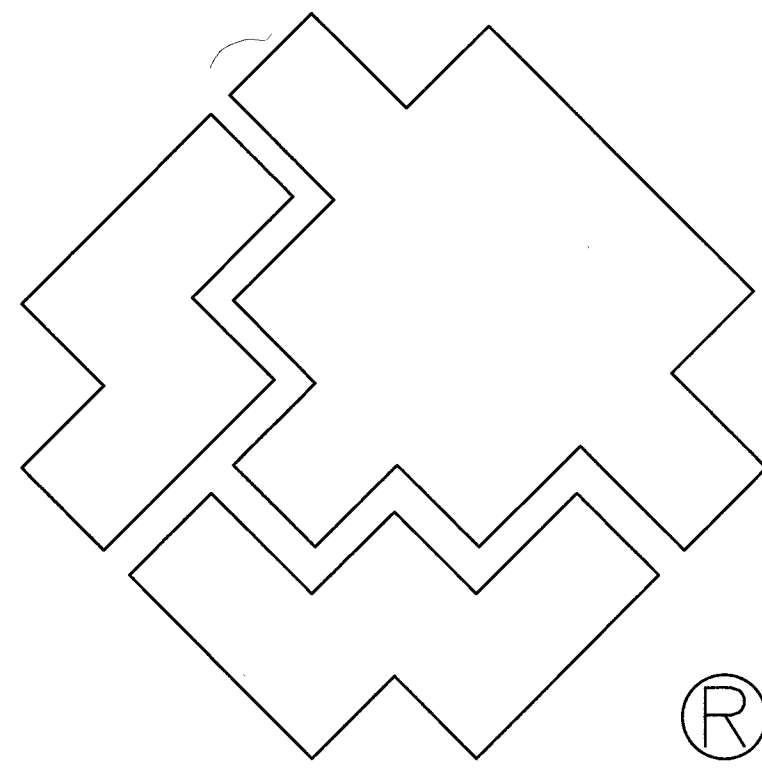




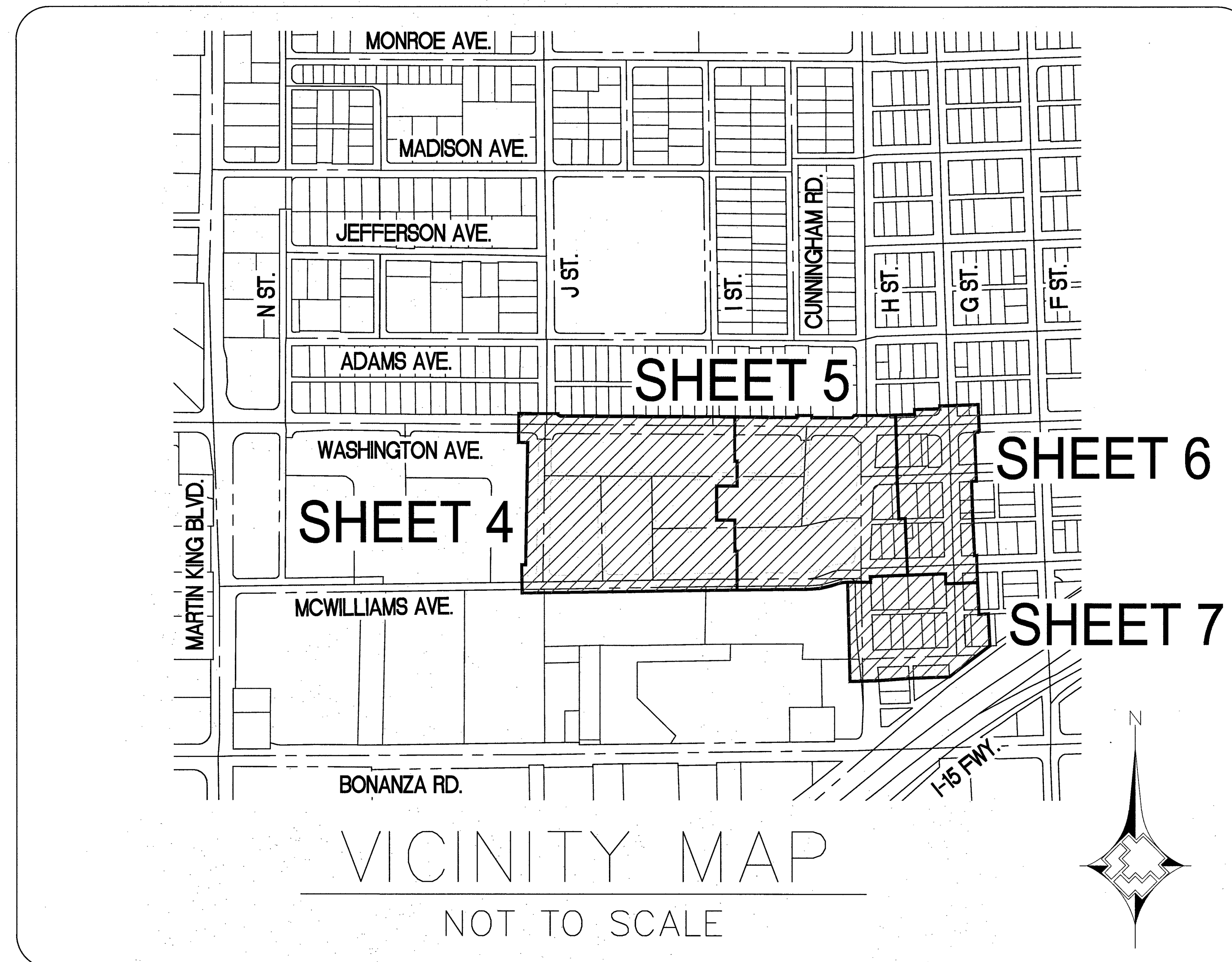
SOUTHWEST GAS CORPORATION

GIR 2016 - CLV - WASHINGTON & J STREET PART 2

CITY OF LAS VEGAS, NV

WR #3036598

LEGEND:	
	EXISTING GAS LINE
	GAS LINE TO BE ABANDONED
	EXISTING GAS SERVICE
	PROPOSED MAIN GAS LINE (NEW)
	PROPOSED SERVICE LATERAL (NEW)
	PROPOSED SERVICE LINE (NEW)
	RIGHT OF WAY LINE
	STREET CENTERLINE
	PROPERTY LINE
	PAVEMENT CUT AND REPAIR
	BACK OF CURB
	MATCHLINE
	EXISTING ANODELESS RISER
	EXISTING ANODE RISER
	EXISTING GAS LIGHT
	EXISTING GAS VALVE

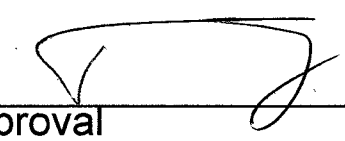


SHEET INDEX	
1.	COVER SHEET
2.	MATERIALS & SIGNATURE SHEET
3.	DETAIL SHEET - STEEL
4.	DESIGN PLAN
5.	DESIGN PLAN
6.	DESIGN PLAN
7.	DESIGN PLAN
8.	DETAIL SHEET

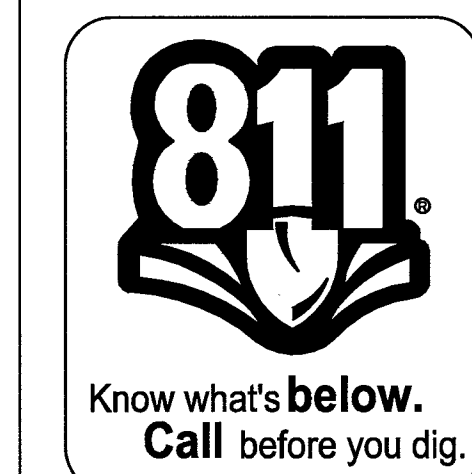
City of Las Vegas

Total footage located in Public ROW 342'

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

Approval  Date 2 11 16

HANSEN# 63300 DWG# 10N/6520-6A7



1. 2. 3. 4. NO. DESCRIPTION BY DATE APPVD.				AS-BUILT DRAWING-PRESSURE TEST DATA				VISUAL INSPECTION CERTIFICATION				CONSTRUCTION				ISOLATION AREA				W.R. NO.				ENGINEER/TECH: JACOB SAKAGUCHI				PHONE: 702-365-2409			
REVISIONS				TEST MEDIUM TEST METHOD				I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED				INSPECTOR				ISO_21_DIST_092				3036598				ACCOUNT REP:				PHONE:			
TAX CODES				PIPE DIA. PIPE LENGTH PIPE TYPE MIN. DURATION				NAME DATE				FOREMAN				LOCATION				T20S R61E S 28 M.D.M.				PROJECT CONTACT:				PHONE:			
UNIT NO.				TEST PRES. (PSIG) TIME DATE				PERMIT INFORMATION				ATLAS #/TITLE #				SHEET NO: 1 OF 8				SCALE: N.T.S.				DATE: 02/03/2016				APPVD. BY:			
PROPERTY UNITS				INSTL. RETIRED PROPOSED COMPLETED				CITY OF LAS VEGAS				x624y520 x627y520				CHKD. BY:				GIR 2016 - CLV - WASHINGTON & J STREET PART 2											

63300 2 8 26

PROPOSED FACILITIES:

- 1 PROPOSED 2" PE MAIN
- 2 PROPOSED 2" PE COUPLER #140-3504
- 3 PROPOSED 2" PE FULL FLOW TEE #140-3074
- 4 PROPOSED 2" PE CAP #140-3060
- 5 PROPOSED 2" X 1-1/4" REDUCER #140-3071
- 6 PROPOSED 2" X 2" TAPPING TEE #160-8171
- 7 PROPOSED 2" PE 90 DEGREE ELBOW #140-3067
- 8 PROPOSED 1-1/4" PE MAIN
- 9 PROPOSED 1-1/4" PE TEE #850-9343
- 10 PROPOSED 1-1/4" PE 90 DEGREE ELBOW #850-9060
- 11 PROPOSED 1-1/4" PE CAP #850-8696
- 12 PROPOSED 1-1/4" PE SERVICE
- 13 PROPOSED 1/2" PE SERVICE

ABANDONED FACILITIES:

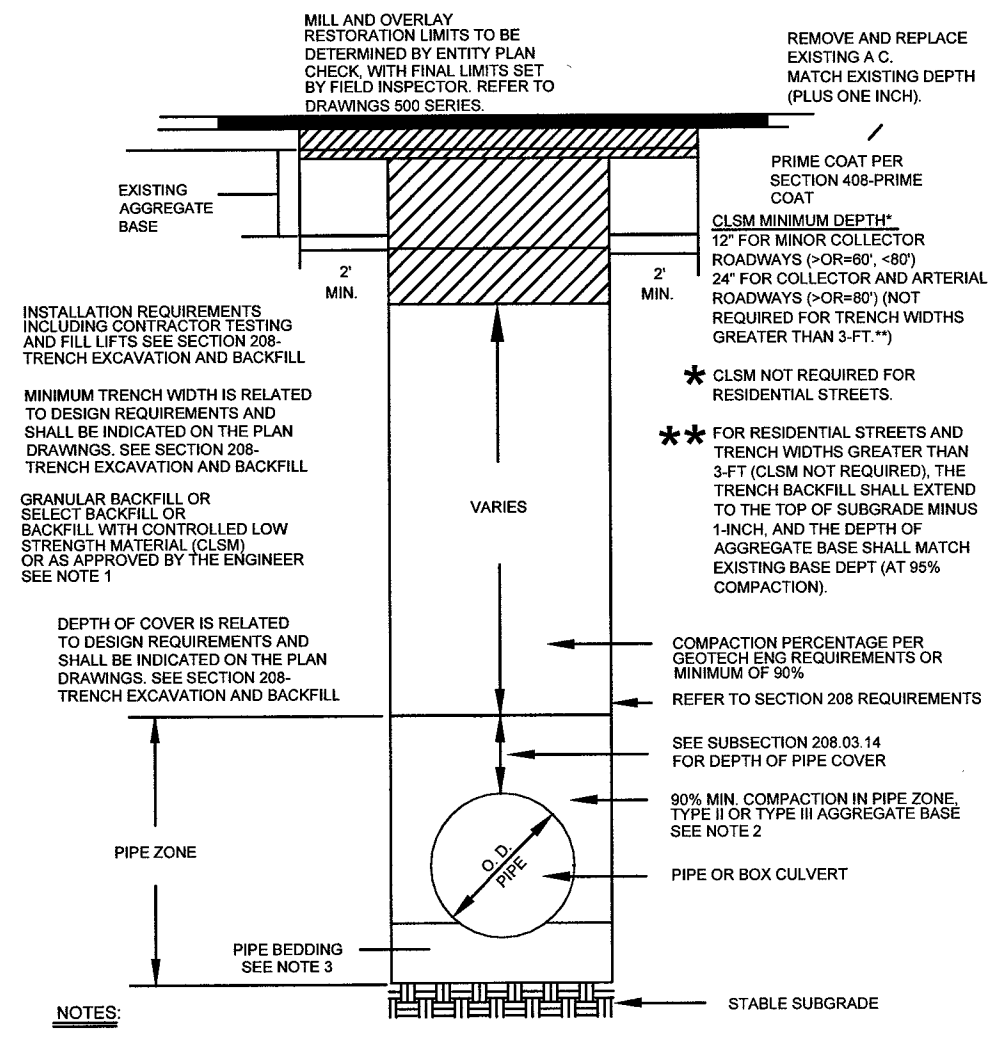
- 1 ABANDON EX. 2" PVC '73 MOP 43#
- 2 ABANDON EX. 1/2" PVC '73 MOP 43#
- 3 ABANDON EX. 1" PVC '73 MOP 43#
- 4 ABANDON EX. 3/4" PVC '73 MOP 43#
- 5 ABANDON EX. 1" PE '06 MOP 43#
- 6 ABANDON EX. 1" PE '01 MOP 43#
- 7 ABANDON EX. 2" PVC '64 MOP 43#
- 8 ABANDON EX. 1/2" PVC '63 MOP 43#
- 9 ABANDON EX. 1" PE '79 MOP 43#
- 10 ABANDON EX. 1/2" PVC '68 SVC
- 11 ABANDON EX. 1/2" PVC '55 SVC
- 12 ABANDON EX. 1/2" PVC '71 SVC
- 13 ABANDON EX. 3/4" PVC '66 SVC
- 14 ABANDON EX. 1/2" PVC '58 SVC
- 15 ABANDON EX. 2" ESSENTIAL BALL VALVE #2131103
- 16 ABANDON EX. 2" ESSENTIAL BALL VALVE #2131104
- 17 ABANDON EX. 2" ESSENTIAL BALL VALVE #2131105
- 18 ABANDON EX. 2" ESSENTIAL BALL VALVE #2131106
- 19 ABANDON EX. 1" NON-ESSENTIAL PLUG VALVE #NE00000
- 20 ABANDON EX. 2" PE '15 MOP 43#

QTY.

- 4,068'
- 459'
- 454'
- 1,553'
- 3'
- 2'
- 218'
- 123'
- 4'
- 50'
- 28'
- 6'
- 12'
- 5'
- 1
- 1
- 1
- 1
- 1
- 2'

CONSTRUCTION NOTES:

1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES LOCATE IN FIELD.
2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS. DO NOT SCALE THIS DRAWING.
3. SEE AC'S FOR SERVICE REPLACEMENT.
4. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
5. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
6. ABANDONED SERVICE NO ACTION REQUIRED.
7. REPLACE ALL ACTIVE SERVICES EXCEPT WHERE EXISTING PE SERVICES ARE VERIFIED, INSPECTED, AND APPROVED FOR TIE-OVER BY SWG INSPECTOR.
8. EXISTING PE SERVICE, PE VERIFICATION, AND INSPECTION REQUIRED FROM MAIN TO RISER. TIE INTO NEW MAIN IF APPROVED BY SWG INSPECTOR, OTHERWISE REPLACE SERVICE.
9. EXISTING SERVICE, UNKNOWN TYPE, SIZE, AND LOCATION TO BE VERIFIED.
11. EXISTING ANODE RISER.
12. EXISTING ANODELESS RISER.
13. REPLACEMENT SVCS TO BE SINGLE OR BRANCHED. NO CROSS-LOT REPLACEMENT SVCS PERMITTED.
14. REPLACE ALL ANODE RISERS WITH ANODELESS RISERS.
15. CITY OF LAS VEGAS PERMIT REQUIRED.
16. ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
17. CONTACT ENGINEERING FOR BYPASS INFORMATION.
18. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED.
19. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
20. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
21. THE FOLLOWING VALVE IS TO BE ABANDONED ON THIS WORK REQUEST:
2" ESSENTIAL BALL VALVE #2131103
2" ESSENTIAL BALL VALVE #2131104
2" ESSENTIAL BALL VALVE #2131105
2" ESSENTIAL BALL VALVE #2131106
1" NON-ESSENTIAL PLUG VALVE #NE00000
22. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 500.3 & 500.4
23. REPLACE EXISTING SERVICES WITH SIMILAR SIZE, UNLESS OTHERWISE NOTED.
24. PROTECT ALL EXISTING VALLEY GUTTERS IN PLACE WHEN CROSSING. BORE DO NOT CUT.



- NOTES:
1. NO STONES OR LUMPS GREATER THAN 2" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTRY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

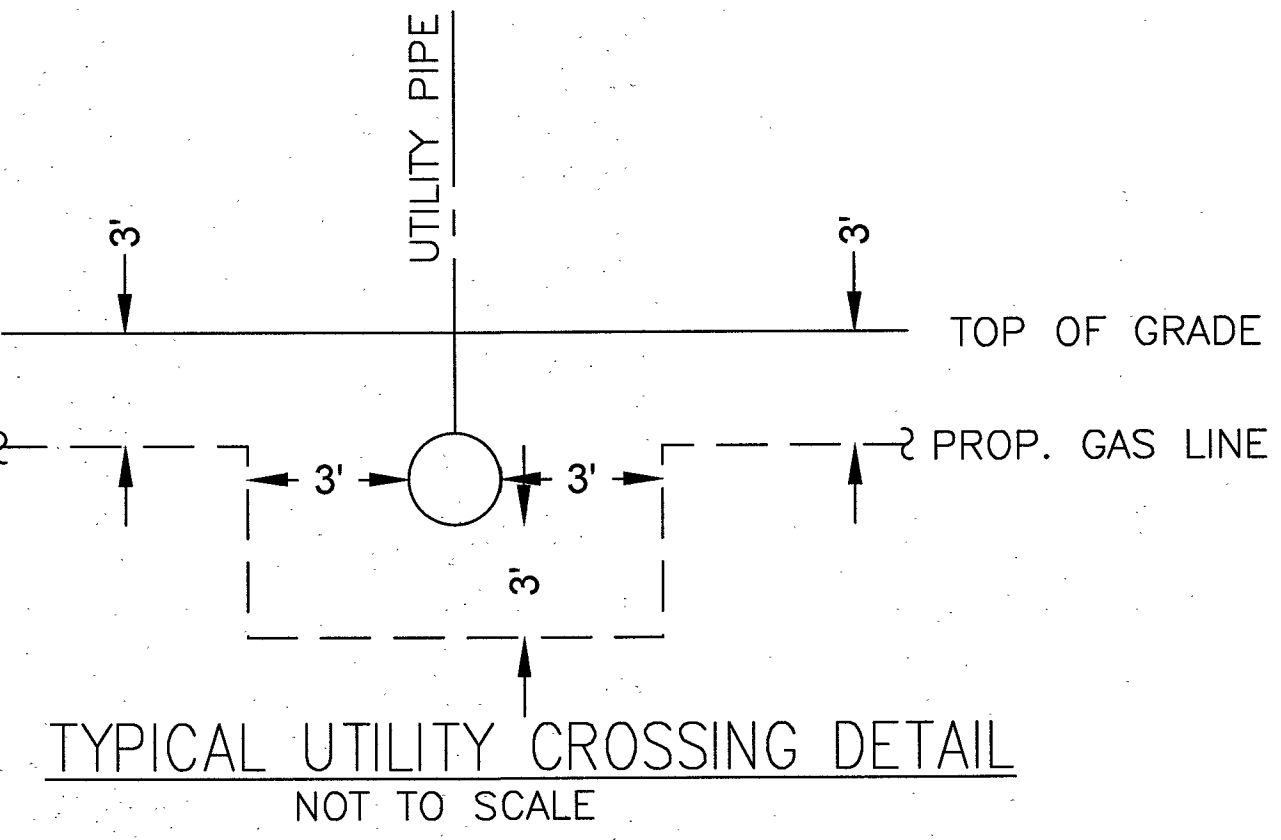
NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				
REVISIONS				



02-0203	3760102	2" PE		127'	0'		
02-0203	3760101	1" PE		0'	4'		
02-0203	3760601	1/2" PVC		0'	123'		
02-0203	3800101	1/2" PE		18'	0'		
02-0203	3800601	1/2" PVC		0'	5'		
02-0200	3760602	2" PVC		0'	4,286'		
02-0200	3760601	1" PVC		0'	454'		
02-0200	3760601	3/4" PVC		0'	1,553'		
02-0200	3760601	1/2" PVC		0'	459'		
02-0200	3760102	2" PE		4,821'	2'		
02-0200	3760101	1-1/4" PE		2,555'	459'		
02-0200	3760101	1" PE		0'	3'		
02-0200	3800101	1-1/4" PE8100		48'	0'		
02-0200	3800101	1/2" PE		83'	0'		
02-0200	3800601	3/4" PVC		0'	12'		
02-0200	3800601	1/2" PVC		0'	84'		
TAX CODES	UNIT NO.	UNIT TYPE	INSTL.	RETIRED	INSTL.	RETIRED	
			PROPOSED		COMPLETED		
PROPERTY UNITS							

EXISTING RISERS	QTY.
# OF ANODELESS RISERS	12
# OF ANODE RISERS	128

SYSTEM	D_VALLEY_WIDE
DR. NO.	21DR10002365
SEGMENT M.A.O.P.	N/A
SYSTEM M.A.O.P.	43 PSIG
SYSTEM M.O.P.	43 PSIG



PURGE PLAN WAS COMPLETED IN ACCORDANCE WITH THE OPERATIONS MANUAL GUIDELINES BY:

PRINT: _____ DATE: _____

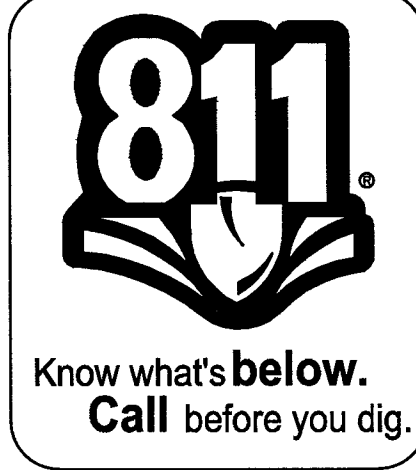
SIGNATURE: _____

AS-BUILT DRAWING-PRESSURE TEST DATA		VISUAL INSPECTION CERTIFICATION		CONSTRUCTION	
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED		INSPECTOR _____		FOREMAN _____	
TEST MEDIUM TEST METHOD		NAME _____		REVIEWED BY _____	
PIPE DIA. _____		DATE _____		PERMIT INFORMATION	
PIPE LENGTH _____		AS-BUILTS ACCEPTED BY _____		CITY OF LAS VEGAS	
PIPE TYPE _____		DATE _____		TAX CODE	
MIN. DURATION _____		POSTING QCD BY _____		02-0200 & 02-0203	
TEST PRES. (PSIG) _____		DATE _____		LOCATION	
TIME _____		DATE _____		T20S	
DATE _____		DATE _____		R61E	
PERFORMED BY _____		DATE _____		S 28	
				M.D.M.	

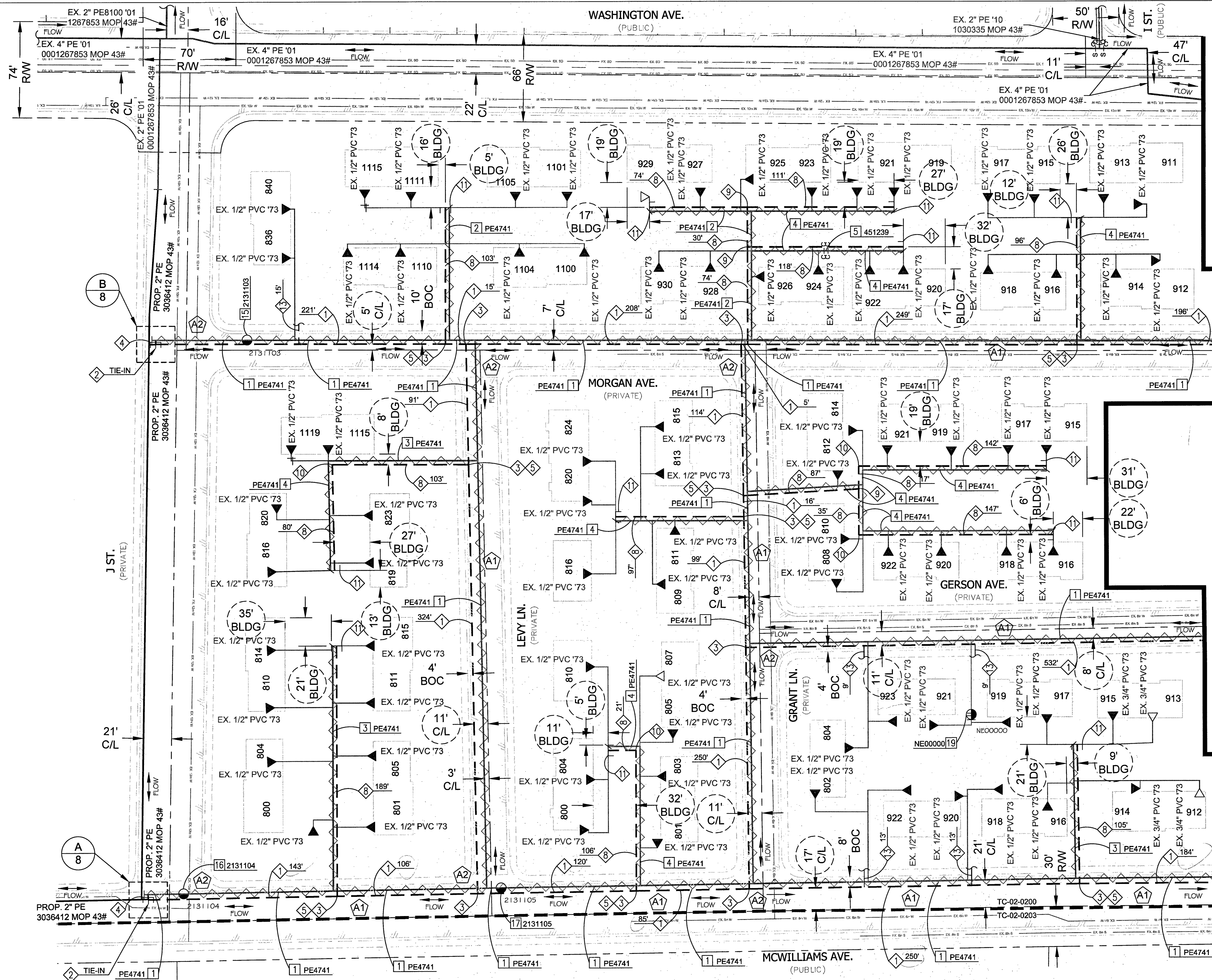
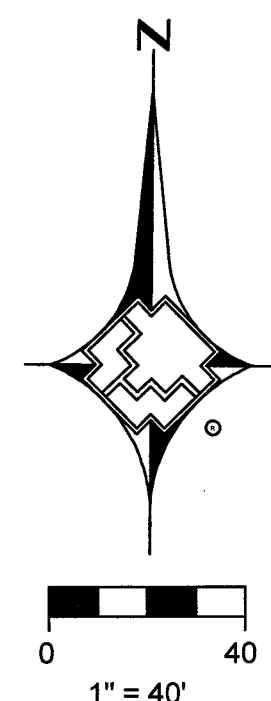
RTC NOTES:

PAVEMENT REPAIR AND / OR BACKFILL SHALL CONFORM TO RTC:

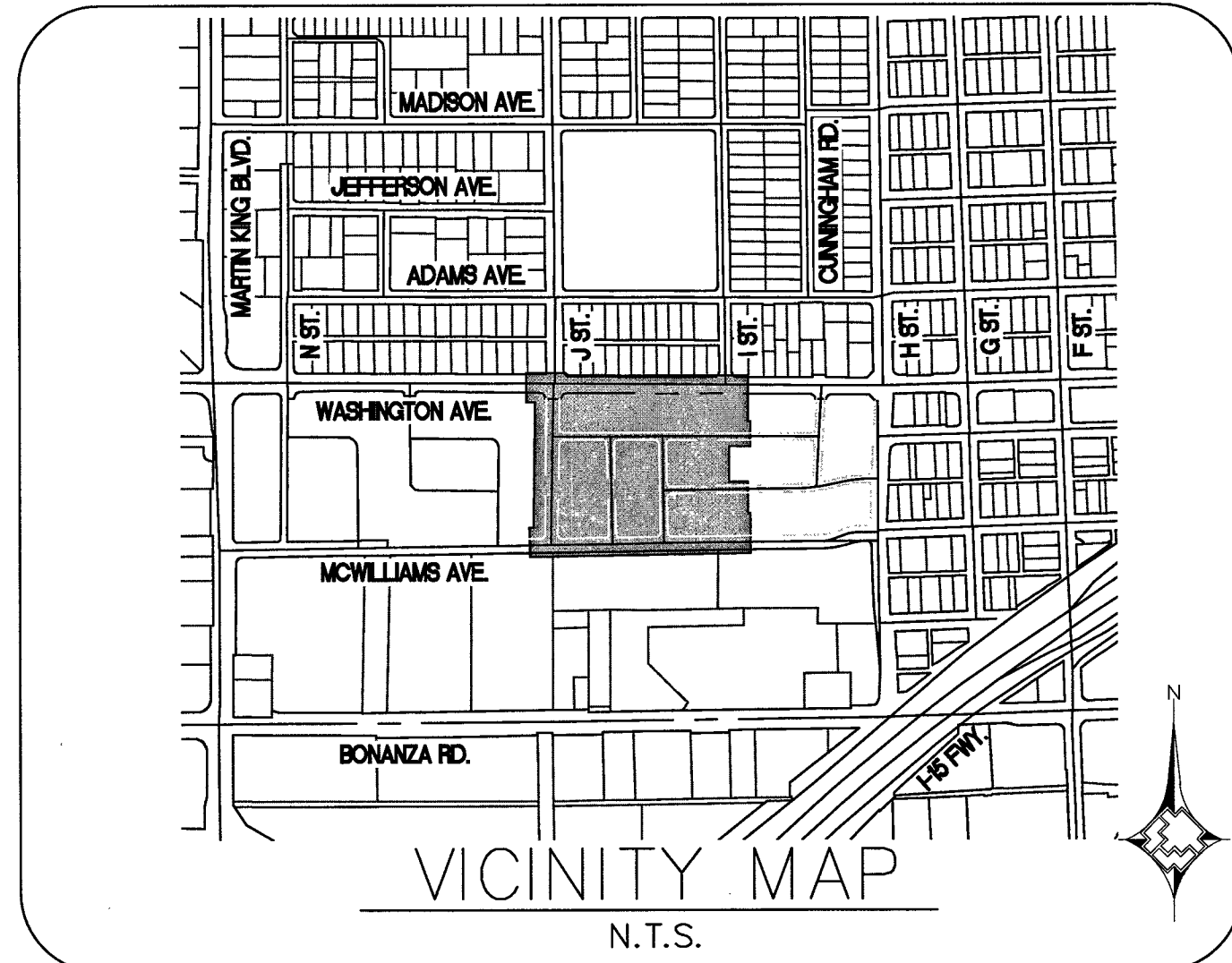
- A1 500.3
- A2 500.4



ENGINEER/TECH: JACOB SAKAGUCHI	PHONE: 702-365-2409
ACCOUNT REP.	PHONE:
PROJECT CONTACT:	PHONE:
SHEET NO: 2 OF 8	SCALE: N.T.S.
DWN. BY: SEI	CHKD. BY:
DATE: 02/03/2016	APPVD. BY:
TITLE	
GIR 2016 - CLV - WASHINGTON & J STREET PART 2	



MATCHLINE - SEE SHEET 5



LEGEND:

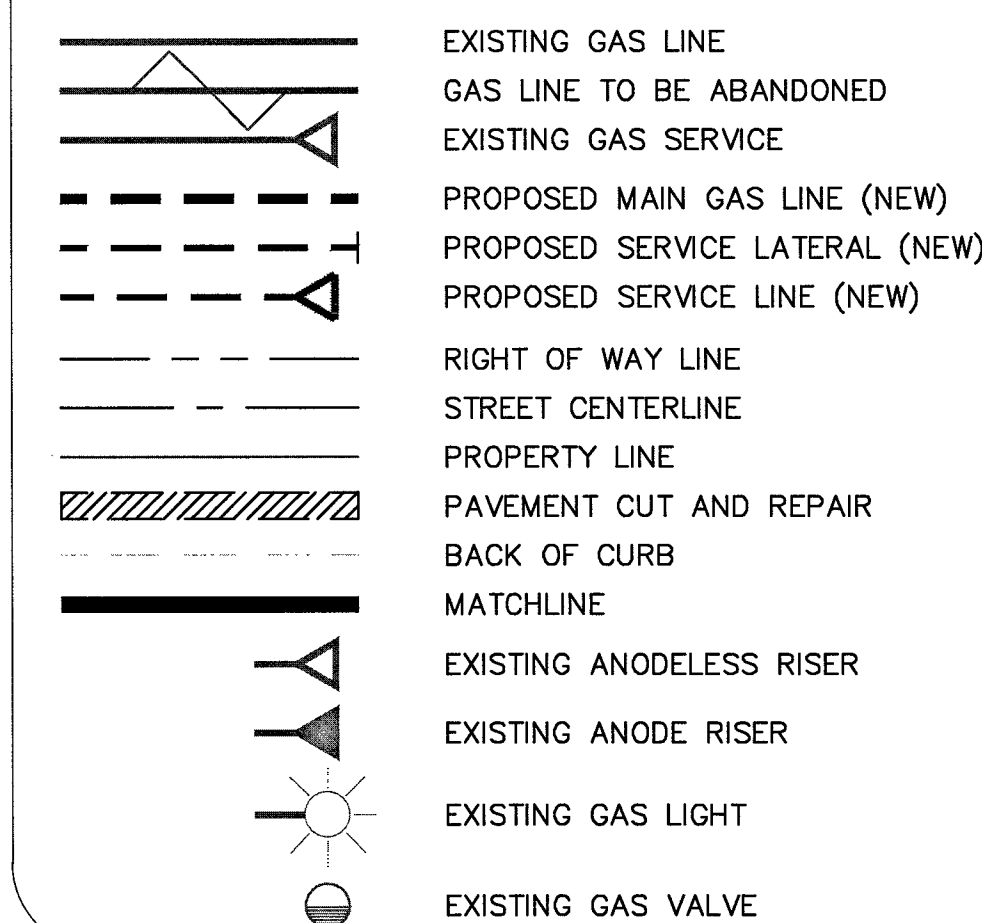
- EXISTING GAS LINE
- GAS LINE TO BE ABANDONED
- EXISTING GAS SERVICE
- PROPOSED MAIN GAS LINE (NEW)
- PROPOSED SERVICE LATERAL (NEW)
- PROPOSED SERVICE LINE (NEW)
- RIGHT OF WAY LINE
- STREET CENTERLINE
- PROPERTY LINE
- PAVEMENT CUT AND REPAIR
- BACK OF CURB
- MATCHLINE
- EXISTING ANODELESS RISER
- EXISTING ANODE RISER
- EXISTING GAS LIGHT
- EXISTING GAS VALVE

RTC NOTES:
PAVEMENT REPAIR AND / OR BACKFILL SHALL CONFORM TO RTC:

- A1 500.4
- A2 500.5



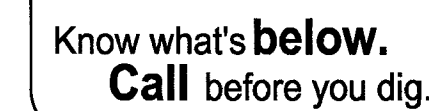
REVISIONS				PROPERTY UNITS				AS-BUILT DRAWING-PRESSURE TEST DATA				VISUAL INSPECTION CERTIFICATION				CONSTRUCTION				ISOLATION AREA				W.R. NO.				ENGINEER/TECH: JACOB SAKAGUCHI				PHONE: 702-365-2409																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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RTC NOTES:

PAVEMENT REPAIR AND / OR BACKFILL SHALL CONFORM TO RTC:

A1	500.4
A2	500.5

[illegible]

AS-BUILT DRAWING-PRESSURE TEST DATA

	TEST MEDIUM	TEST METHOD
PIPE DIA. _____	☐ AIR	☐ GAUGE
PIPE LENGTH _____	☐ NITROGEN	☐ CHART
PIPE TYPE _____	☐ WATER	☐ GAUGE/
MIN. DURATION _____	☐ SOAP	PRESS REC SN# _____
TEST PRES. (PSIG) _____	START _____	END _____
TIME _____		
DATE _____		
PERFORMED BY _____		

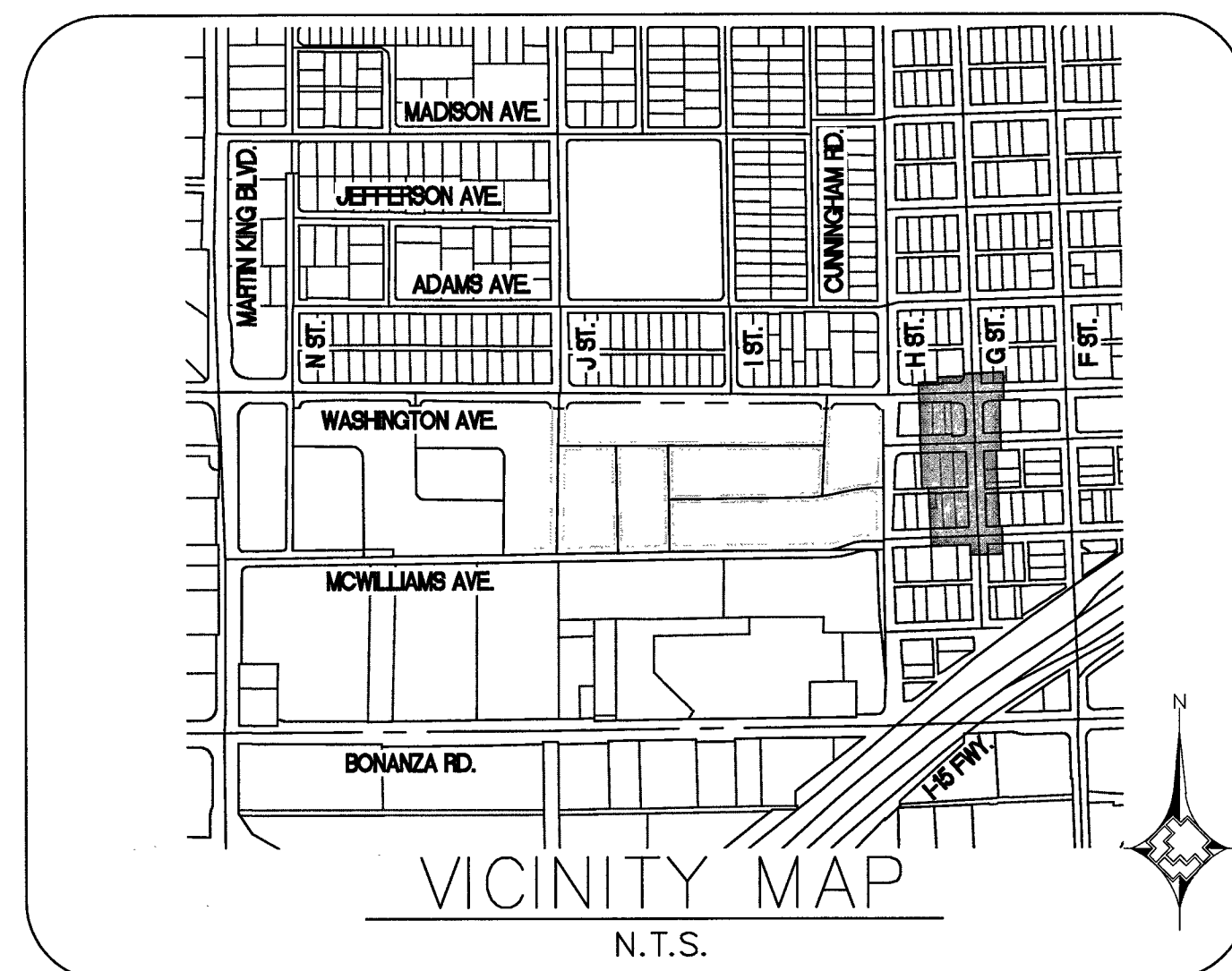
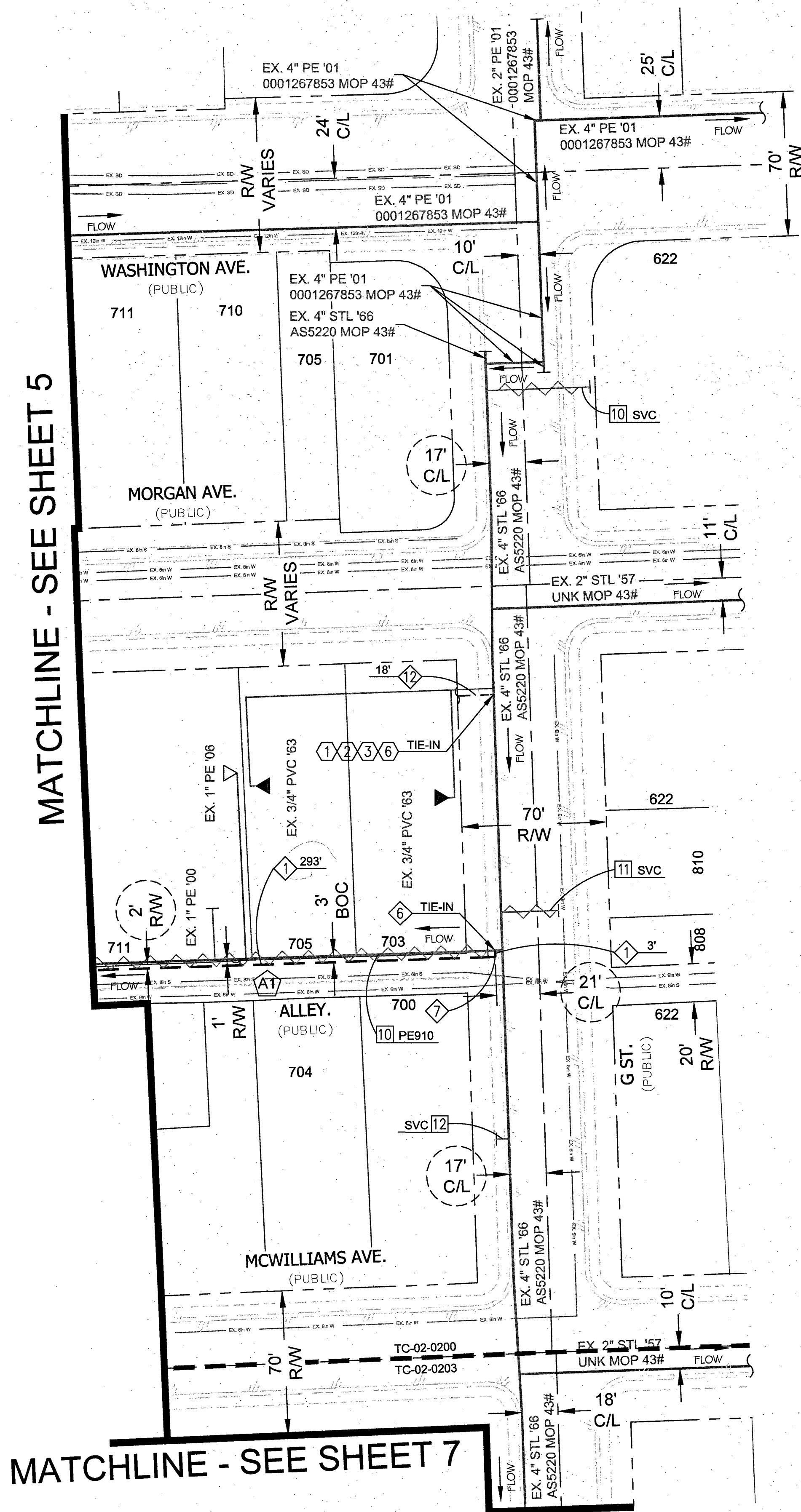
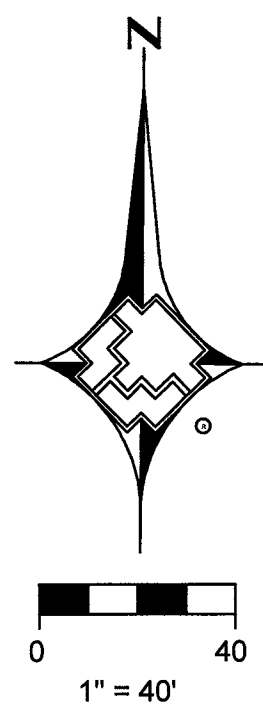
VISUAL INSPECTION CERTIFICATION	
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED	
NAME _____	DATE _____
SEE SHEET 2	
AS-BUILTS ACCEPTED BY _____	DATE _____
POSTED BY _____	DATE _____
POSTING QCD BY _____	DATE _____

CONSTRUCTION	
INSPECTOR	_____
FOREMAN	_____
REVIEWED BY	_____
SEE SHEET 2	
PERMIT INFORMATION	
CITY OF LAS VEGAS	
TAX CODE	
02-0200 & 02-0203	

	ISOLATION AREA
	ISO_21_DIST_092
	LOCATION
	T20S R61E S 28 M.D.M.

	W.R. NO.
	3036598
	ATLAS #/TILE #
	x624y520
	x627y520

ENGINEER/TECH: JACOB SAKAGUCHI		PHONE: 702-365-2409
ACCOUNT REP:		PHONE:
PROJECT CONTACT:		PHONE:
SHEET NO: 5 OF 8	SCALE: 1" = 40'	DATE: 02/03/2016
DWN. BY: SEI	CHKD. BY:	APPVD. BY:
TITLE		
GIR 2016 - CLV - WASHINGTON & J STREET PART 2		



LEGEND:

- EXISTING GAS LINE
- GAS LINE TO BE ABANDONED
- EXISTING GAS SERVICE
- PROPOSED MAIN GAS LINE (NEW)
- PROPOSED SERVICE LATERAL (NEW)
- PROPOSED SERVICE LINE (NEW)
- RIGHT OF WAY LINE
- STREET CENTERLINE
- PROPERTY LINE
- PAVEMENT CUT AND REPAIR
- BACK OF CURB
- MATCHLINE
- EXISTING ANODELESS RISER
- EXISTING ANODE RISER
- EXISTING GAS LIGHT
- EXISTING GAS VALVE

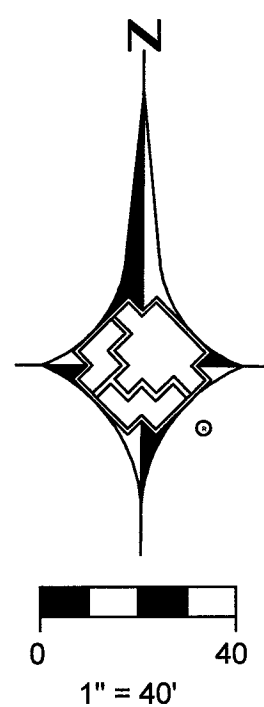
RTC NOTES:
PAVEMENT REPAIR AND / OR BACKFILL SHALL CONFORM TO RTC:

- A1 500.4
- A2 500.5

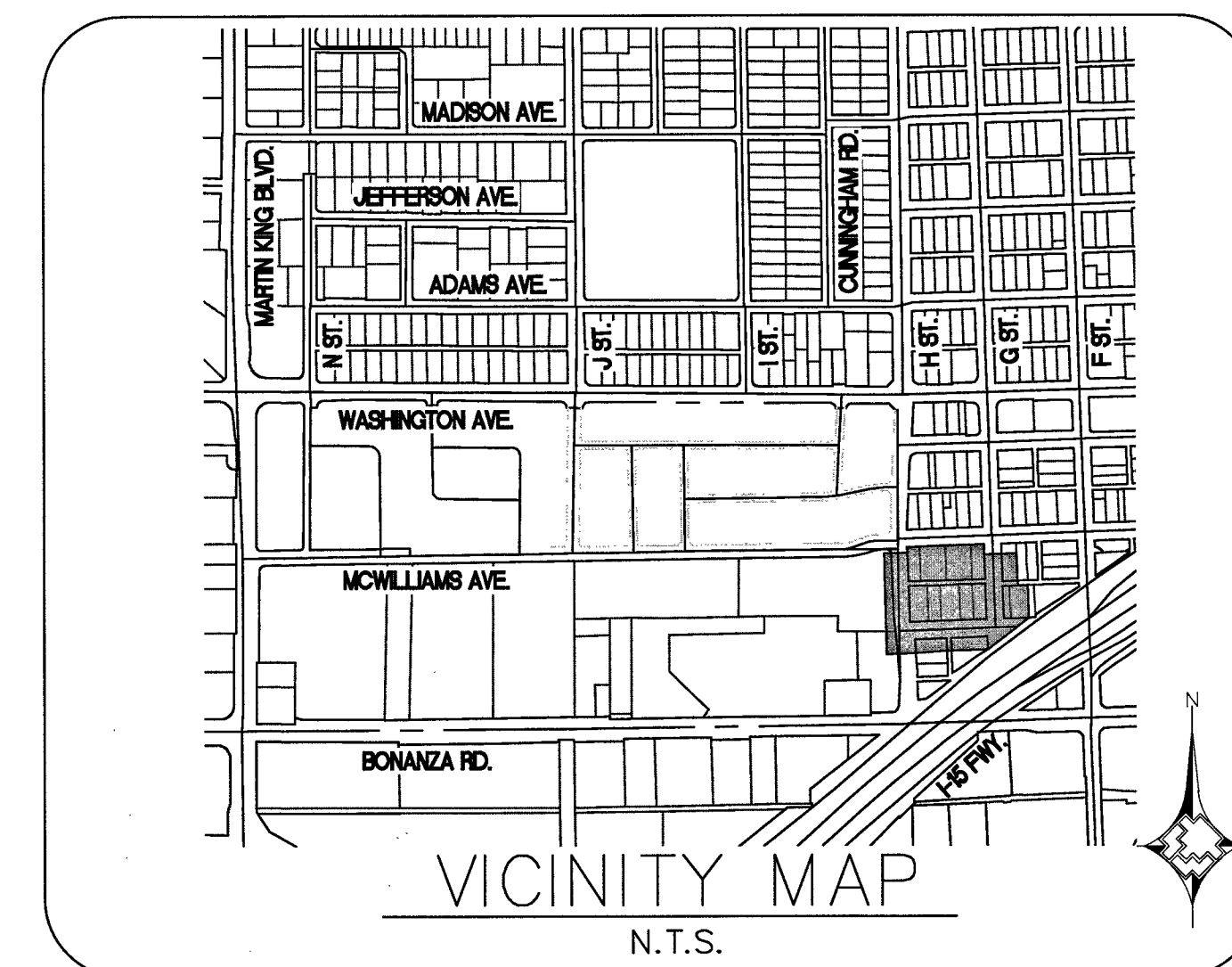
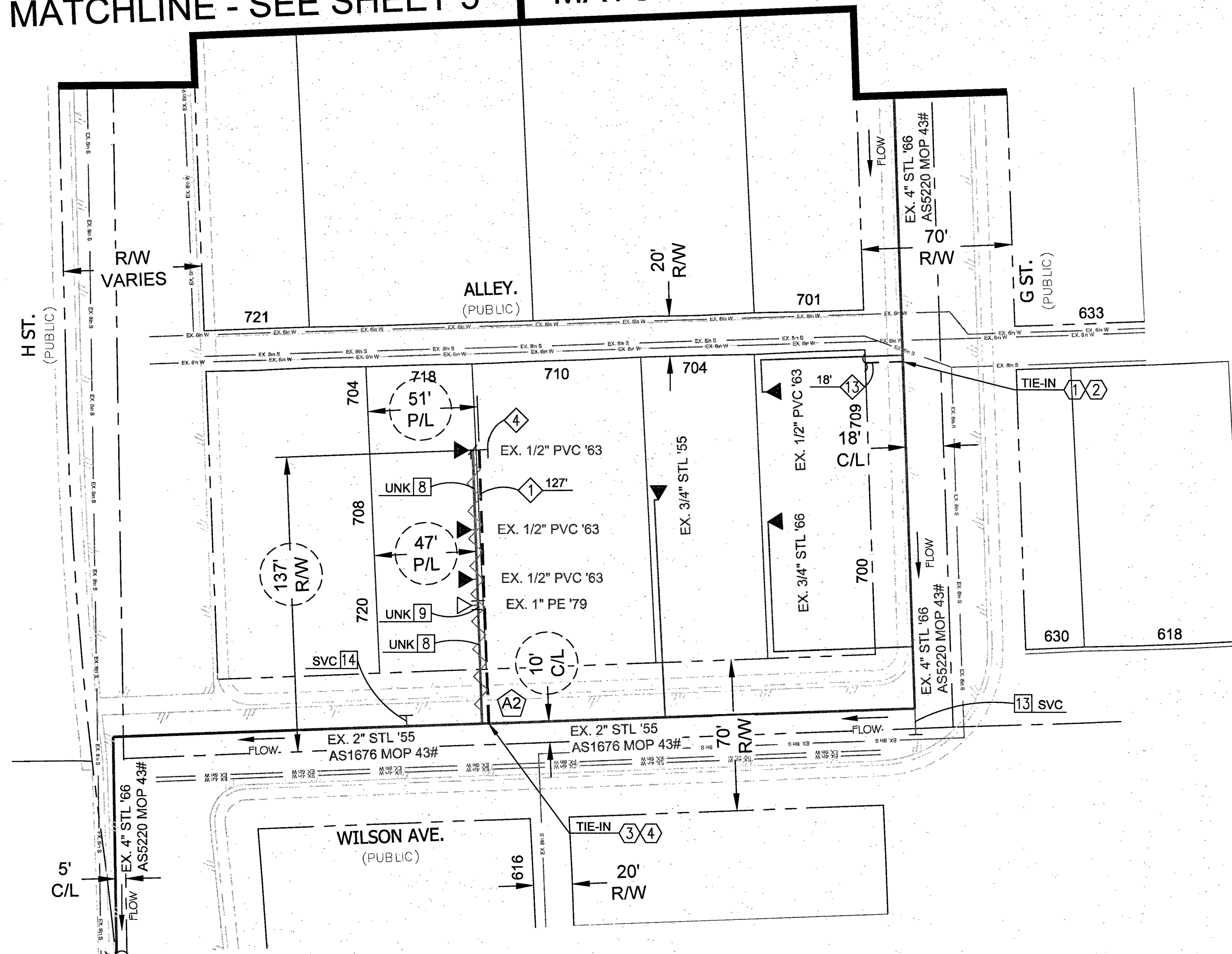


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NO. DESCRIPTION BY DATE APPVD				AS-BUILT DRAWING-PRESSURE TEST DATA				VISUAL INSPECTION CERTIFICATION				CONSTRUCTION				ISOLATION AREA		W.R. NO.		ENGINEER/TECH: JACOB SAKAGUCHI				PHONE: 702-365-2409																																							
REVISIONS				PROPERTY UNITS				I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED				INSPECTOR				ISO_21_DIST_092		3036598		ACCOUNT REP:				PHONE:																																							
								NAME				FOREMAN								PROJECT CONTACT:				PHONE:																																							
								DATE				REVIEWED BY				SEE SHEET 2				SHEET NO: 6 OF 8		SCALE: 1" = 40'		DATE: 02/03/2016																																							
								PERFORMED BY				AS-BUILTS ACCEPTED BY				DATE				LOCATION		ATLAS #/TITLE #		TITLE																																							
								TIME				POSTED BY				DATE				T20S		x624y520		GIR 2016 - CLV - WASHINGTON & J STREET PART 2																																							
								DATE				POSTING OCC'D BY				DATE				R61E		x627y520																																									
								PERFORMED BY				POSTING OCC'D BY				DATE				S 28																																											
																				M.D.M.																																											

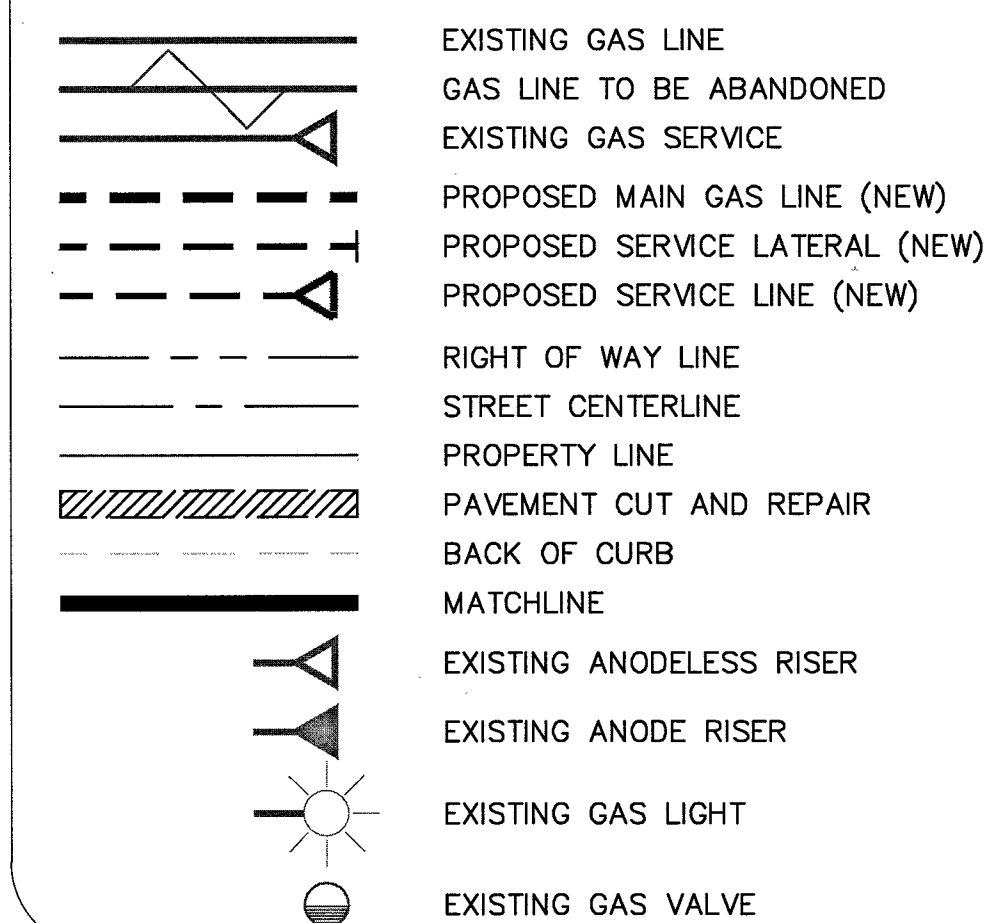




MATCHLINE - SEE SHEET 5 | MATCHLINE - SEE SHEET 6



LEGEND:



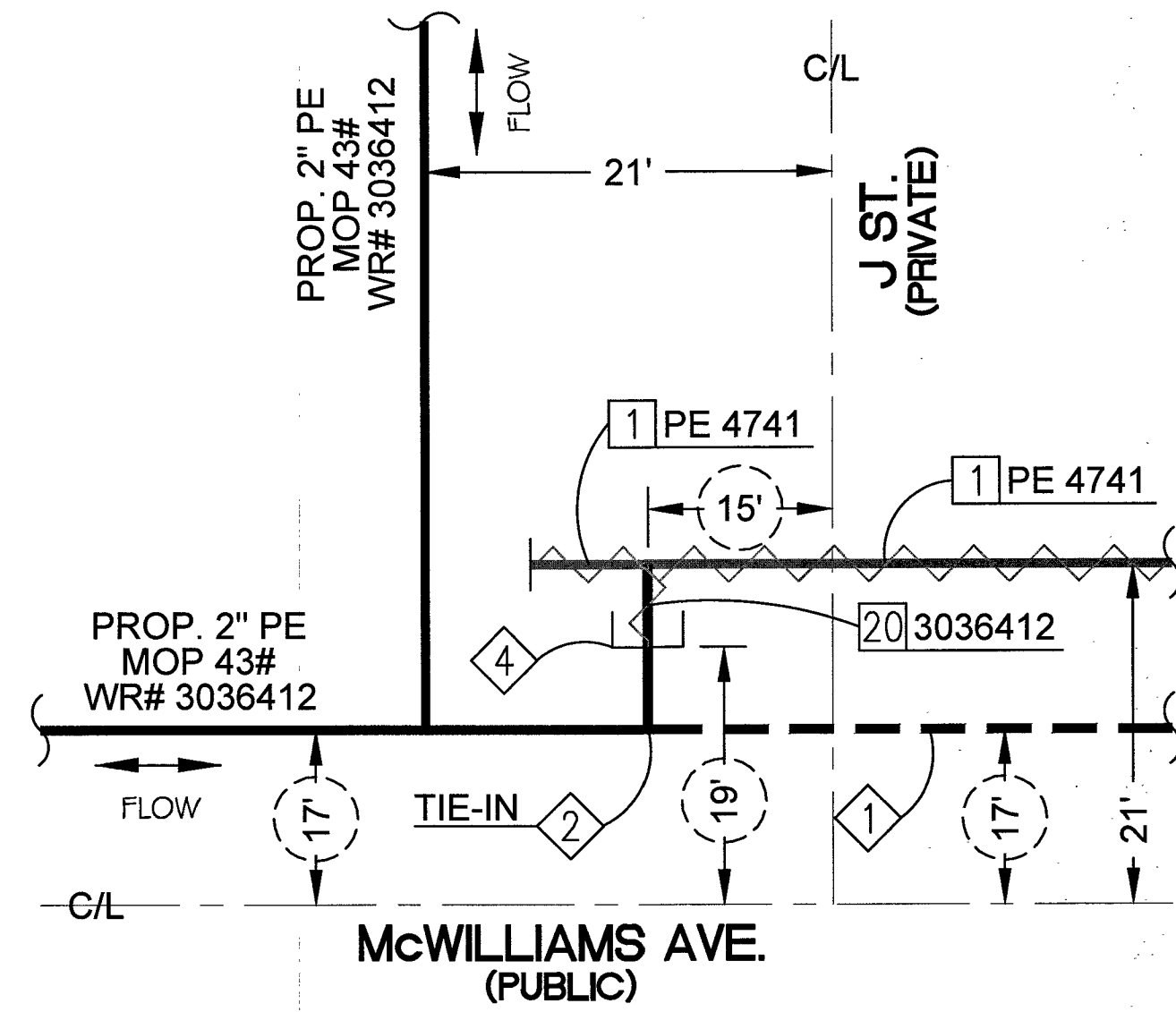
RTC NOTES:

PAVEMENT REPAIR AND / OR BACKFILL SHALL CONFORM TO RTC:

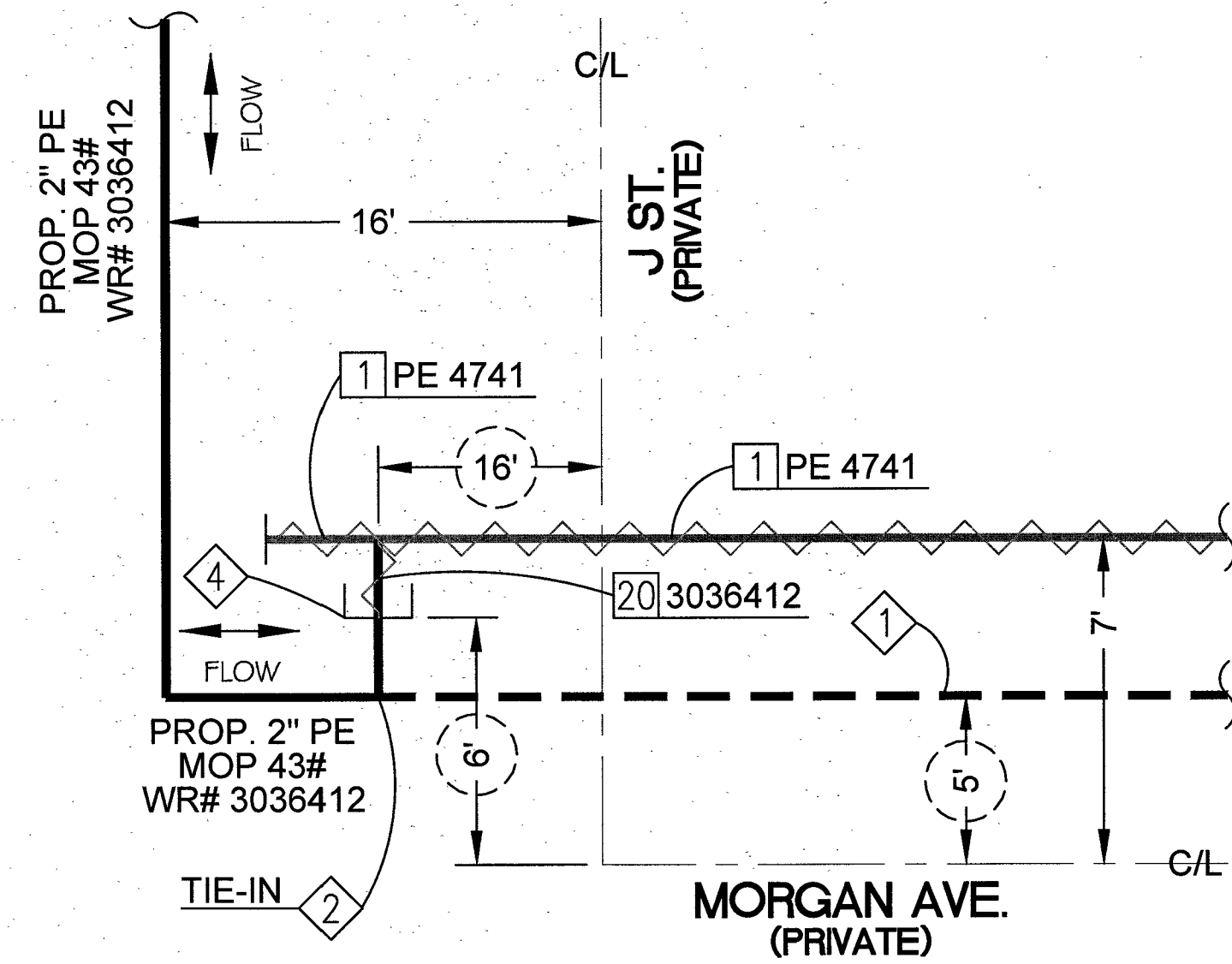
- A1 500.4
A2 500.5



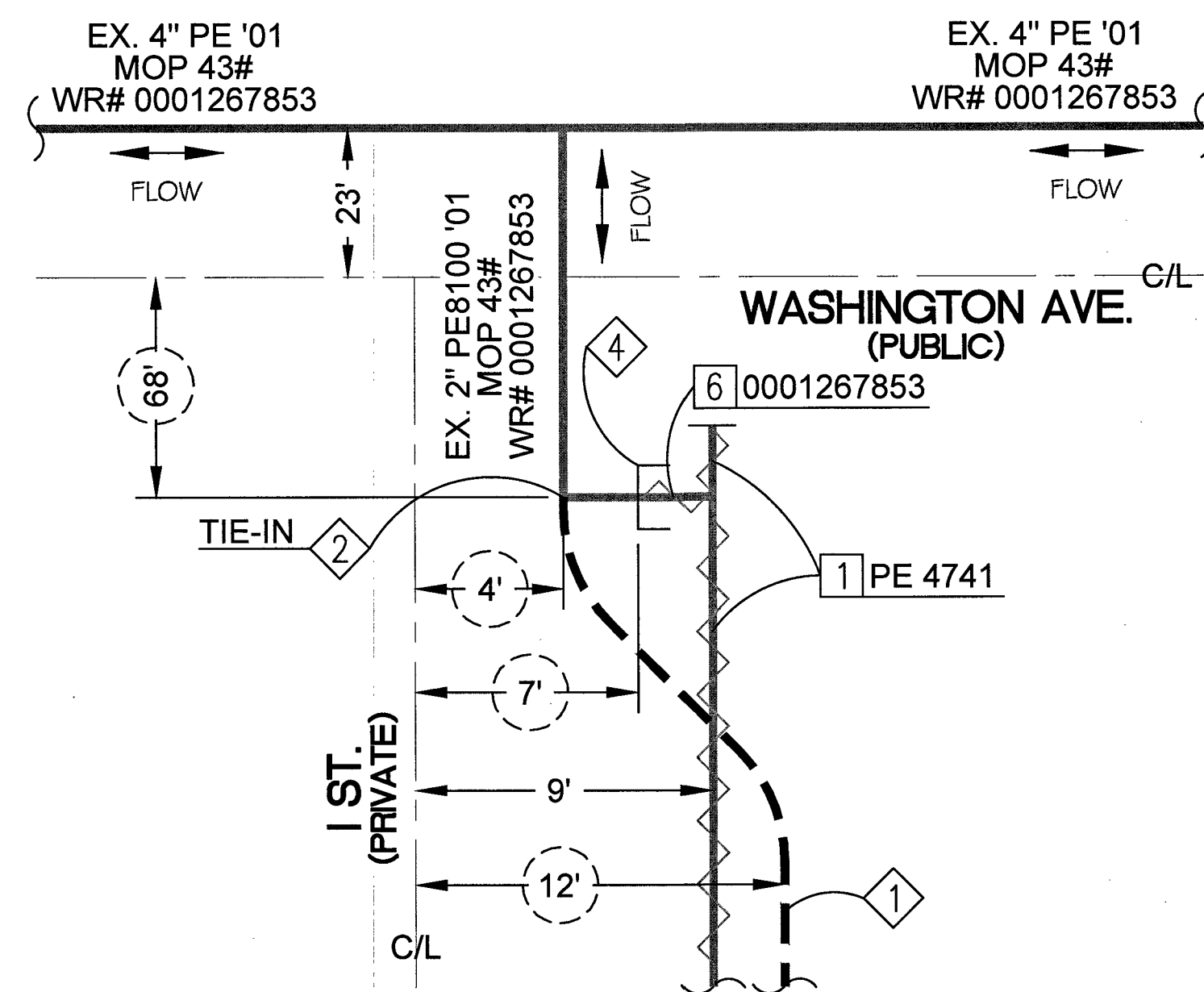
1. 2. 3. 4. NO. DESCRIPTION BY DATE APPVD. REVISIONS					SEE SHEET 2					AS-BUILT DRAWING-PRESSURE TEST DATA PIPE DIA. _____ TEST MEDIUM _____ TEST METHOD _____ PIPE LENGTH _____ ☐ AIR ☐ GAUGE ☐ NITROGEN ☐ CHART PIPE TYPE _____ ☐ WATER GAUGE/ PRESS REC SN# _____ MIN. DURATION _____ TEST PRES. (PSIG) _____ START _____ END _____ TIME _____ DATE _____ PERFORMED BY _____					VISUAL INSPECTION CERTIFICATION I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED. NAME _____ DATE _____ INSPECTOR _____ FOREMAN _____ REVIEWED BY _____ SEE SHEET 2					CONSTRUCTION INSPECTOR _____ FOREMAN _____ REVIEWED BY _____ SEE SHEET 2					ISOLATION AREA ISO_21_DIST_092					W.R. NO. 3036598					ENGINEER/TECH: JACOB SAKAGUCHI ACCOUNT REP. _____ PROJECT CONTACT: _____ SHEET NO: 7 OF 8 SCALE: 1" = 40' DATE: 02/03/2016 DWN. BY: SEI CHKD. BY: _____ APPVD. BY: _____					PHONE: 702-365-2409 PHONE: _____ PHONE: _____				
SOUTHWEST GAS CORPORATION					PROPERTY UNITS TAX CODES UNIT NO. UNIT TYPE INSTL. RETIRED INSTL. RETIRED PROPOSED COMPLETED					PERMIT INFORMATION CITY OF LAS VEGAS TAX CODE 02-0200 & 02-0203					LOCATION T20S R61E S 28 M.D.M.					ATLAS #/TILE # x624y520 x627y520					GIR 2016 - CLV - WASHINGTON & J STREET PART 2																			



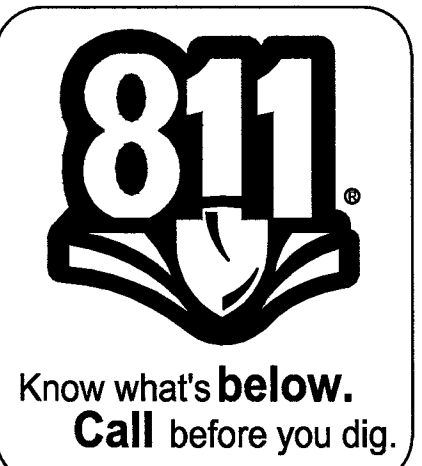
TIE-IN DETAIL
(SEE SHEET 4)
N.T.S.



TIE-IN DETAIL
(SEE SHEET 4)
N.T.S.



TIE-IN DETAIL
(SEE SHEET 5)
N.T.S.



REVISIONS NO. DESCRIPTION BY DATE APPVD.				PROPERTY UNITS TAX CODES UNIT NO. UNIT TYPE INSTL. RETIRED INSTL. RETIRED PROPOSED COMPLETED				AS-BUILT DRAWING-PRESSURE TEST DATA PIPE DIA. _____ TEST MEDIUM _____ TEST METHOD _____ PIPE LENGTH _____ ☐ AIR ☐ GAUGE PIPE TYPE _____ ☐ NITROGEN ☐ CHART MIN. DURATION _____ ☐ WATER ☐ GAUGE/ _____ ☐ SOAP PRESS REC SN# _____ TEST PRES. (PSIG) _____ START _____ END _____ TIME _____ DATE _____ PERFORMED BY _____				VISUAL INSPECTION CERTIFICATION I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT WELDING, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED. NAME _____ DATE _____ INSPECTOR _____ FOREMAN _____ REVIEWED BY _____ AS-BUILTS ACCEPTED BY _____ DATE _____ POSTED BY _____ DATE _____ POSTING QC'D BY _____ DATE _____				CONSTRUCTION INSULATION AREA ISO_21_DIST_092 W.R. NO. 3036598 LOCATION T20S R61E S 28 M.D.M. ATLAS #/TILE # x624y520 x627y520 CITY OF LAS VEGAS TAX CODE 02-0200 & 02-0203				PERMIT INFORMATION ENGINEER/TECH: JACOB SAKAGUCHI ACCOUNT REP. _____ PROJECT CONTACT: _____ SHEET NO: 8 OF 8 SCALE: N.T.S. DATE: 02/03/2016 DWN. BY: SEI CHKD. BY: _____ APPVD. BY: _____ TITLE				PHONE: 702-365-2409 PHONE: _____ PHONE: _____			
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