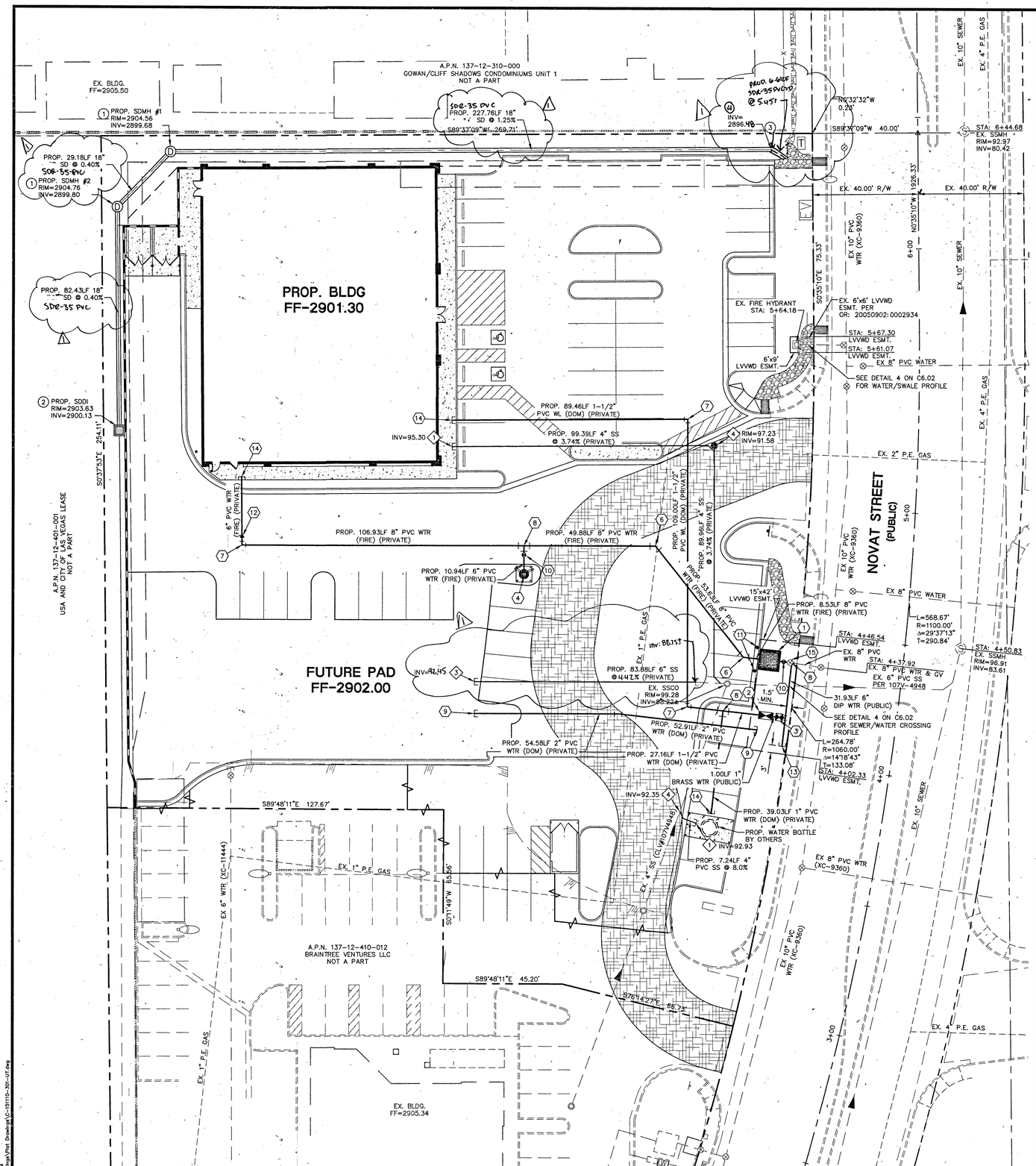


NOTE:

CONTRACTOR TO INCLUDE COST OF UNDERGROUND UTILITY DETECTION COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION OR EXCAVATION. ENGINEER TO BE PROVIDED WITH AS-BUILT SKETCH OF EXISTING UTILITIES, AND IS TO BE NOTIFIED IMMEDIATELY OF ANY POTENTIAL CONFLICTS WITH PROPOSED UTILITIES AND/OR FINISHED GRADES.

NOTE:

REMOVAL OF EXISTING ACTIVE UTILITIES TO BE PHASED AS DIRECTED BY OWNER.

FIRE FLOW CALCULATIONS

BASED ON:

SQUARE FOOTAGE:	10,025
LARGEST AREA BETWEEN SEPARATION WALL:	N/A
BUILDING HEIGHT:	24'-3"
NUMBER OF STORIES:	1 STORY
TYPE OF CONSTRUCTION:	VB
EXPOSURES:	N/A
SPRINKLER SYSTEM:	YES
OCCUPANCY:	SHELL - FUTURE M
ROOF CONSTRUCTION:	TPO INSULATED WOOD TRUSSES W/ DESK
FLOW REQUIRED @ 20 PSI RESIDUAL:	1500 GPM
MAX. STORAGE HEIGHT:	10'

EX. STATIC WATER PRESSURE IS 83± psi IN STREET.

NOTE:

PROPERTY SITUATED IN PRESSURE ZONE 3090. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 psi. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 psi. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF L.V.V.W.D. FACILITIES. ESN.041

NOTE:

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM DRAIN CROSSING AND CLEARANCES.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 3/10/16 PROJECT No. 124039

LVVWD APPROVED FIRE FLOW = 1500 GPM AT 20 PSI RESIDUAL

SHEETS: C1.01, C1.02, C3.01, C6.02

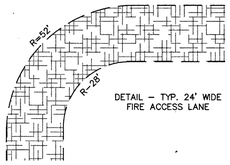
CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: _____ DATE: 2/23/16

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL OR FENCE

TREE'S , SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT OF WAY.



DETAIL - TYP. 24' WIDE FIRE ACCESS LANE

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

WATER CONSTRUCTION NOTES:

- ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS)" LATEST EDITION.
- NOT ALL NOTES USED ON THIS SHEET -

1. INSTALL 8" RPDA PER UDACS PLATE NO. 56. SEE DETAIL 6/C6.02 FOR SECTION.
2. INSTALL 1" RPPA PER UDACS PLATE NO. 8. SEE DETAIL 5/C6.02 FOR SECTION.
3. INSTALL 1" WATER SERVICE & METER PER UDACS PLATE No. 4.
4. INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40 WITH BOLLARDS PER DETAIL 8 ON C6.01.
5. INSTALL 8"x2" SERVICE SADDLE WITH 2" CORP STOP PER UDACS PLATE NO. 4.
6. INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
7. INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
8. INSTALL TEE (SAME SIZE AS PIPES) PER UDACS PLATE NO. 31.
9. INSTALL CAP (SAME SIZE AS PIPE).
10. INSTALL GATE VALVE (SAME SIZE AS PIPE) PER UDACS PLATE NO. 30 AND 39.
11. INSTALL BOLLARDS PER UDACS PLATE NO. 75.
12. INSTALL REDUCER (SAME SIZE AS PIPES) W/ANCHOR BLOCK PER UDACS PLATE NO. 30.
13. INSTALL CAP (SAME SIZE AS PIPE).
14. STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
15. REMOVE EX. BLOW OFF.

STORM DRAIN CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET -

1. INSTALL TYPE I STORM DRAIN MANHOLE PER C.C.A.U.S.D. NO. 403 WITH CONCRETE COLLAR PER C.C.A.U.S.D. NO. 408. REFER TO C.C.A.U.S.D. NO. 409 FOR MANHOLE COVER AND RING.
2. INSTALL 36"X36" DROP INLET PER 6 ON C6.01.
3. BEVEL END OF PIPE TO DAYLIGHT.
4. INSTALL 22.5° BEND

SEWER CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET -

1. STUB SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
2. INSTALL SEWER CLEAN-OUT PER DETAIL 2 ON C6.02.
3. INSTALL SANITARY SEWER CAP.
4. INSTALL SEWER CLEAN-OUT PER DETAIL 3 ON C6.02.
5. INSTALL WYE.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (1) 8"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (1) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

A.P.N.:

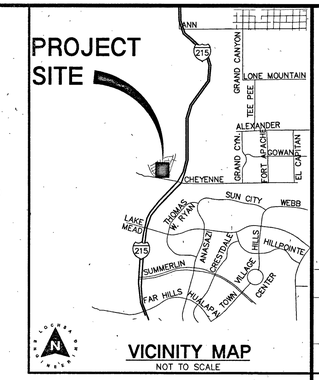
137-12-410-011

BASIS OF BEARINGS:

SURVEY BASED ON RECORD OF SURVEY FILE 183 PAGE 81.

BENCHMARK:

CITY OF LAS VEGAS BM # SLV0912SWW6 RIVET AND PLATER IN THE TOP OF CURB EAST SIDE OF CLIFF SHADOWS AND BUCKSKIN ELEVATION: 2924.27 FEET



VICINITY MAP

NOT TO SCALE

FUTURE USE LATERALS:

(1" THROUGH 2")

IF ANY OF THE SERVICE LATERALS TO BE INSTALLED FOR FUTURE LOTS ARE INCORRECTLY LOCATED OR ARE NOT USED FOR ANY REASON WHEN THE LOTS ARE DEVELOPED, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE AGENCY'S STANDARDS AT THE DEVELOPER'S EXPENSE.

INSTALLATION OF SERVICE LATERALS 2 INCHES IN DIAMETER AND SMALLER FOR FUTURE LOTS SHALL INCLUDE THE SERVICE LATERAL WITH ALL THE FITTINGS PER AGENCY STANDARD PLATE No. 1 OR 2. THE AGENCY MAY LOCK THESE SERVICES TO PREVENT UNAUTHORIZED WATER USE.

FIRE DEPARTMENT APPROVAL:

APPROVAL BY THE FIRE DEPARTMENTS HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.

GENERAL UTILITY NOTES:

1. STATIC WATER PRESSURE IN ZONE 2745 = 63 PSI±.
2. THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
3. TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER UDACS PLATE NO. 17, EXCEPT WITHIN NDOT RIGHT OF WAYS, TRENCH BACKFILL TO BE CONSTRUCTED PER UDACS PLATE NO. 18.
4. ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE DCSWCS SECTION 2.2.18 (TYPICAL).
5. WATER AND SEWER TO BE INSTALLED IN SEPERATE TRENCHES WITH AT LEAST 10' MINIMUM SEPERATION FROM EXTERIOR PIPE WALLS (TYPICAL). SEE UDACS SECTION 2.22.
6. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
7. THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
9. CONTRACTOR/OWNER TO OBTAIN CITY OF LAS VEGAS OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
10. CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
11. ALL EXISTING STREET LIGHTS INDICATED ON THESE PLANS ARE SHOWN FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE UNLESS NOTED WITH STATION AND OFFSET.
12. ALL EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY. PROPOSED GAS LINES SHOWN ON THESE PLANS ARE FOR COORDINATION ONLY. SEE SOUTHWEST GAS PLANS FOR CONSTRUCTION.
13. ALL DIMENSIONS TO UTILITIES LINES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
14. ALL LINEAR FEET OF STORM DRAIN AND SANITARY SEWER PIPE NOTED ON PLANS IS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
15.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

Call Before You Overhead

AVOID BUYING UNDERGROUND TRAFFIC CONTROL EQUIPMENT DUE TO ACCIDENTAL DAMAGES ITS COSTLY

Call before you UnderGround

Call 811

Call before you dig
Avoid cutting underground utility lines. It's costly.

1-702-432-5300 or 1-702-227-2929 FOR NON MEMBER UTILITY COMPANIES 1-800-227-2600

REV.:	DATE:	BY:	DESCRIPTION:
1	6/1/16	JLI	REVISED SD PER NATIONAL LEASED SECTION. REVISED SEWER. UNITERIL. INVERTS. APPROV. JLI.

Lochsa engineering
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Las Vegas, NV 89118
Phone (702) 362-9312
Fax (702) 362-9317
www.lochsa.com

UTILITY PLANS
UTILITY PLAN

DOLLAR TREE
NORTHWEST CORNER OF NOVAT STREET AND CLIFF SHADOWS PARKWAY

SHEET
TITLE

PROJECT No.: 151110

DATE: 02-22-2016

SCALE: 1"=20'

DRAWN BY: JLI

DESIGNED BY: JLI

CHECKED BY: GMM

SEAL: GUY M. MORRIS, EXP. 12-31-17, CIVIL, No. 14526, STATE OF NEVADA, PROFESSIONAL ENGINEER, 02-22-2016

SHEET No. C3.01
SHEET 4 OF 8

HTE No. 63383

H# 107V6616

PROJ#: 124039 AGR#: 115658 QS: 137-12-SW

LEGEND

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)								(12.34) BC 12.34 BC			Ⓢ = SANITARY SEWER						BWV				
ROW LINE	SCARP LINE	PROPOSED:	2122											Ⓓ = STORM DRAIN						BWV				
														Ⓔ = ELECTRICAL										
														Ⓣ = TELEPHONE										

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