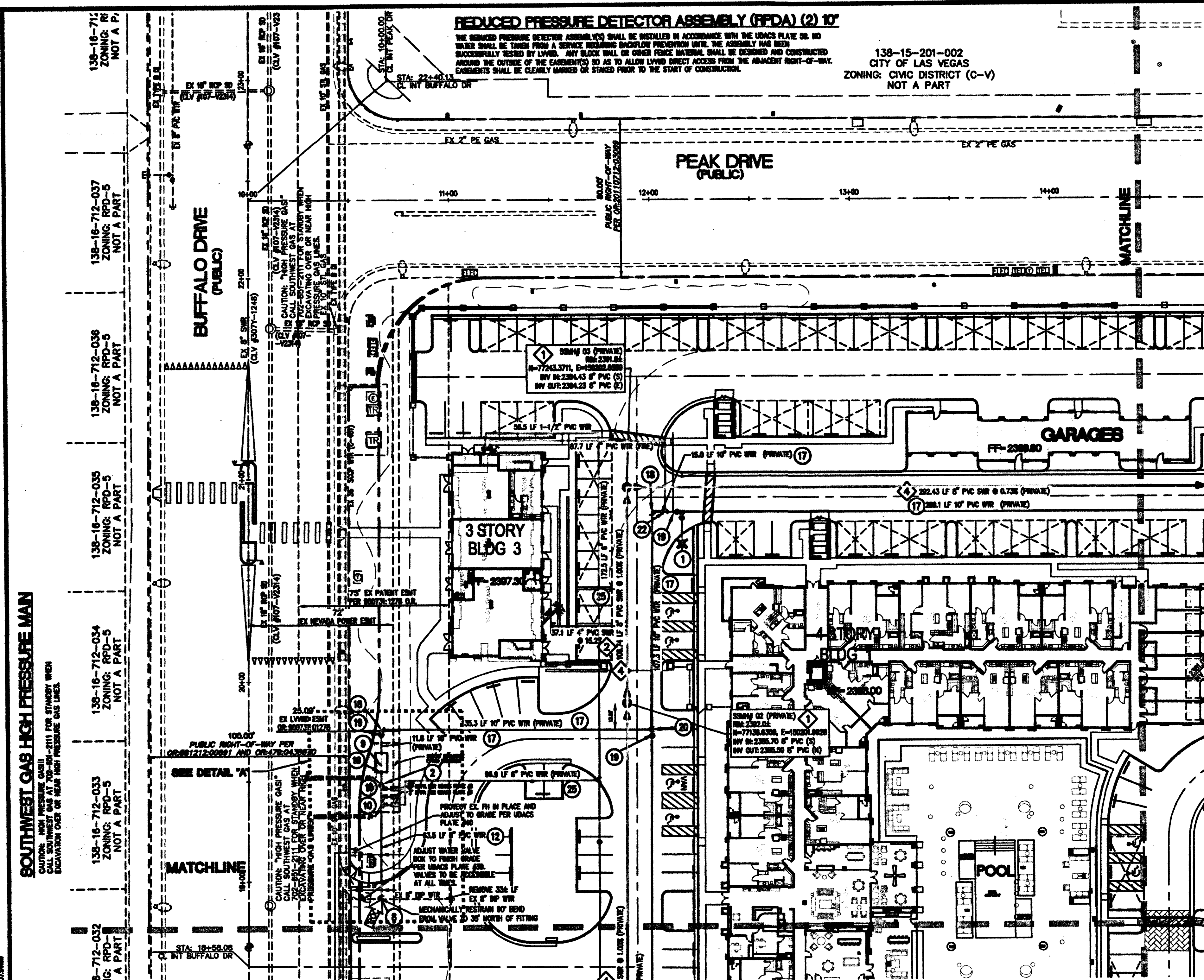
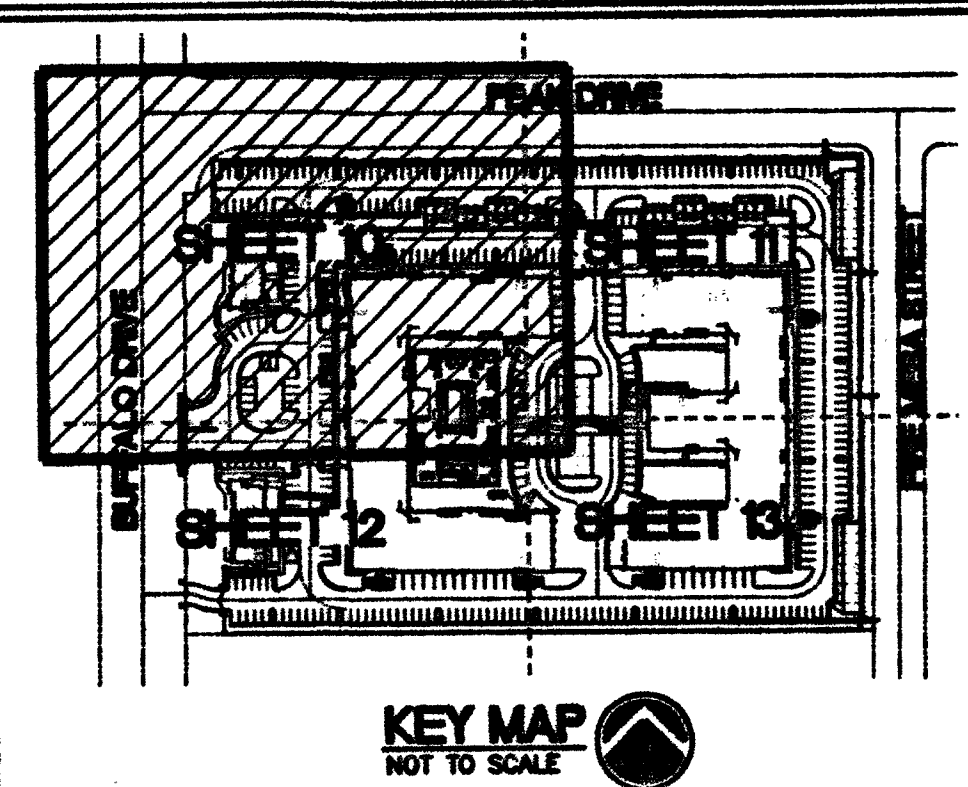




FIRE FLOW INFORMATION BLOCK

USE/OCCUPANCY	R-2 APARTMENT
TYPE OF CONSTRUCTION (BOC)	V-A
FIRE FLOW	4000 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS	YES
WPA 13	130
ESFR	NO
SQUARE FOOTAGE	200,000 SF
LARGEST AREA BETWEEN 4 HOURS WALLS	N/A
BUILDING HEIGHT	57
# OF STORIES INCLUDING BASEMENT	4
HIGH PILED COMBUSTIBLE STORAGE	NO
# OF HYDRANTS INSTALLED	6 (PVT)

SPRINKLER SYSTEM - 250 GPM
300 UNITS, 12.50 AC



WASTEWATER FLOW CALCULATION

APARTMENTS - 306 UNITS
WASTEWATER FLOW = 0.70 ERU
1 ERU = 250 GPD
PEAK FACTOR = 3.5

AVERAGE FLOW = 306 x 0.70 x 250 = 53,550 GPD
PEAK FLOW = 3.5 x 53,550 = 187,425 GPD = 0.18 MGD

COMMERCIAL PORTION - 8,000 SF - 57 GPD
WASTEWATER FLOW = 0.45 ERU
1 ERU = 250 GPD
PEAK FACTOR = 3.5

YOGA STUDIO - 9 GPD
1 DRINKING FOUNTAIN x 1 GPD = 1
1 WASH/SINK x 2 GPD = 2
1 WATER CLOSET x 4 GPD = 4
1 URINAL x 2 GPD = 2

PET WASH - 9 GPD
1 DRINKING FOUNTAIN x 1 GPD = 1
1 WASH/SINK x 2 GPD = 2
1 WATER CLOSET x 4 GPD = 4
1 URINAL x 2 GPD = 2
1 FLOOR DRAIN x 0 GPD = 0

RETAIL OFFICE/LEASING OFFICE x 3 UNITS - 27 GPD
1 DRINKING FOUNTAIN x 1 GPD = 1 x 3 UNITS = 3
1 WASH/SINK x 2 GPD = 2 x 3 UNITS = 6
1 WATER CLOSET x 4 GPD = 4 x 3 UNITS = 12
1 URINAL x 2 GPD = 2 x 3 UNITS = 6

MODEL UNIT - 12 GPD
1 BATHROOM x 2 GPD = 2
1 KITCHEN x 2 GPD = 2
1 CLOTHES WASHER x 3 GPD = 3
1 LAUNDRY x 1 GPD = 1
2 WASH/SINK x 2 GPD = 4

AVERAGE FLOW = 57 x 0.45 x 250 = 6,412.50 GPD
PEAK FLOW = 3.5 x 6,412.50 = 22,443.75 GPD = 0.02 MGD

TOTAL AVERAGE FLOW = 59,962.50 GPD
TOTAL PEAK FLOW = 0.18 + 0.02 = 0.20 MGD

LEGEND

SYMBOLS		DESCRIPTION
EXISTING	PROPOSED	
---	---	WATER LINE
---	---	SEWER LINE
---	---	STORM DRAIN LINE
---	---	GAS LINE
---	---	WATER SERVICE LATERAL
---	---	SEWER SERVICE LATERAL
---	---	FIRE HYDRANT W/ASSEMBLY
---	---	SEWER MANHOLE
---	---	STORM DRAIN MANHOLE
---	---	GATE VALVE
---	---	SEWER CLEANOUT
---	---	SAMESE FDC W/ 4" LINE TO RISER ROOM

- WATER CONSTRUCTION NOTE**
- INSTALL FIRE HYD W/ASSEMBLY PER UDCS PLATE #30
 - INSTALL 8" GATE VALVE PER UDCS PLATE #31
 - INSTALL 8" TEE PER UDCS PLATE #31
 - INSTALL 8" X 4" TEE PER UDCS PLATE #31
 - INSTALL 4" 45° BEND PER UDCS PLATE #31
 - INSTALL SAMESE FDC ON BUILDING
 - INSTALL 8" 90° BEND CONNECT TO EX 8" DIP
 - INSTALL 10" RPPA PER UDCS PLATE #30
 - INSTALL 2" METER AND 2" RPPA PER UDCS PLATES #4 & #5
 - INSTALL 2" METER AND 2" RPPA PER UDCS PLATES #6 & #7
 - INSTALL 8" PVC WATER
 - INSTALL 4" PVC WATER
 - INSTALL 1-1/2" PVC WATER
 - REMOVE CAP & BLOW-OFF AND CONNECT
 - INSTALL 10" 90° REDUCER PER UDCS PLATE #30
 - INSTALL 10" PVC WATER
 - INSTALL 10" 90° BEND PER UDCS PLATE #31
 - INSTALL 10" GATE VALVE PER UDCS PLATE #30 & #31
 - INSTALL 10" TEE PER UDCS PLATE #31
 - ABANDON VALVE, CUT & INSTALL CAP. SEE NOTE
 - INSTALL 10" X 4" TEE PER UDCS PLATE #31
 - INSTALL 8" 90° BEND PER UDCS PLATE #31
 - INSTALL 10" X 8" TEE PER UDCS PLATE #31
 - INSTALL 8" PVC WATER
 - INSTALL 1" RPPA (IRRIGATION) PER UDCS PLATE #8
- SEWER CONSTRUCTION NOTE**
- INSTALL 48" STANDARD PRE-CAST MANHOLE BASE PER DESIGN 101 - 800-1A, 50-1A (SINGLE COVER)
 - INSTALL 10" PVC SEWER LATERAL PER DESIGN 101 - 800-1A, 50-1A
 - INSTALL 10" PVC SEWER
 - INSTALL 8" PVC SEWER
 - STUB AND CAP ALL LATERALS 5' FROM BUILDING. SEE PLUMBING PLANS FOR CONTINUATION AND COMB. POINT.

UTILITY NOTE
UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREIN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

NOTE:
INSTALL FIRE FLOW MARKER SHALL BE IN TRENCH ABOVE EACH HORIZONTAL ELONG FITTING, PER UDCS PLATE #30.

NOTE TO CONTRACTOR:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY OF LAS VEGAS AND THE CITY OF LAS VEGAS FIRE AND RESCUE ON ROAD CLOSURE AND TEMPORARY ACCESS ISSUES.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK (CLV) 1011.00
MARKET & PLATE IN TOP OF CURB WEST SIDE OF BUFFALO +/- 200 FEET NORTH OF PEAK DRIVE

CAUTION TO CONTRACTOR I
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREIN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CONSTRUCTION NOTES

- ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (E.G. BOX, MAN, ANCHOR BOX, IN, TO, BOX, ETC.)
- ALL UNDERGROUND UTILITIES ARE TO BE COVERED BY P.V.C. UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- SEWER CLEANOUTS IN PAVED AREAS SHALL HAVE VALVE BOXES WITH TRAFFIC BEARING LIDS AND CONCRETE COLLARS.
- ALL WATER PIPING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDCS), LATEST EDITION.
- THE CONTRACTOR IS TO INSTALL A PLASTIC LANDSCAPE METER BOX AT THE LOCATION WHERE THE WATER LATERAL TERMINATES TO EACH BUILDING.

TRENCH & BACKFILL NOTE

- TRENCH AND BACKFILL ALL SEWER MAIN PER UDCS PLATE #30-37.
- TRENCH AND BACKFILL ALL WATER MAINS PER UDCS PLATE #37.
- TRENCH AND PAVEMENT RESTORATION PER CO AREA STD DWS 5002, 5002L, AND 5003.

NOTE:
FOR QUANTITY ESTIMATES SEE OVER SHEET.

NOTE:
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM WITH THE REQUIREMENTS OF TITLE 10.00 & 10.05.

WATER MAIN JOINT DEFLECTION (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,100 FEET. PER UDCS 2.07(A) AND 2.07(B). FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (2) (2) (2)

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDCS PLATE #3. NO WATER SHALL BE TAKEN FROM A SERVICE RESERVING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE ASSEMBLY(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

SHUT OFF NOTE:
THE DISTRICT CANNOT GUARANTEE A WATERPROOF SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LATERALS AND EQUIPMENT IS AVAILABLE TO REMOVE FURTHER WATER THAT MAY INFLUENCE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TIE IN. SHUTDOWN CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

OVERATION

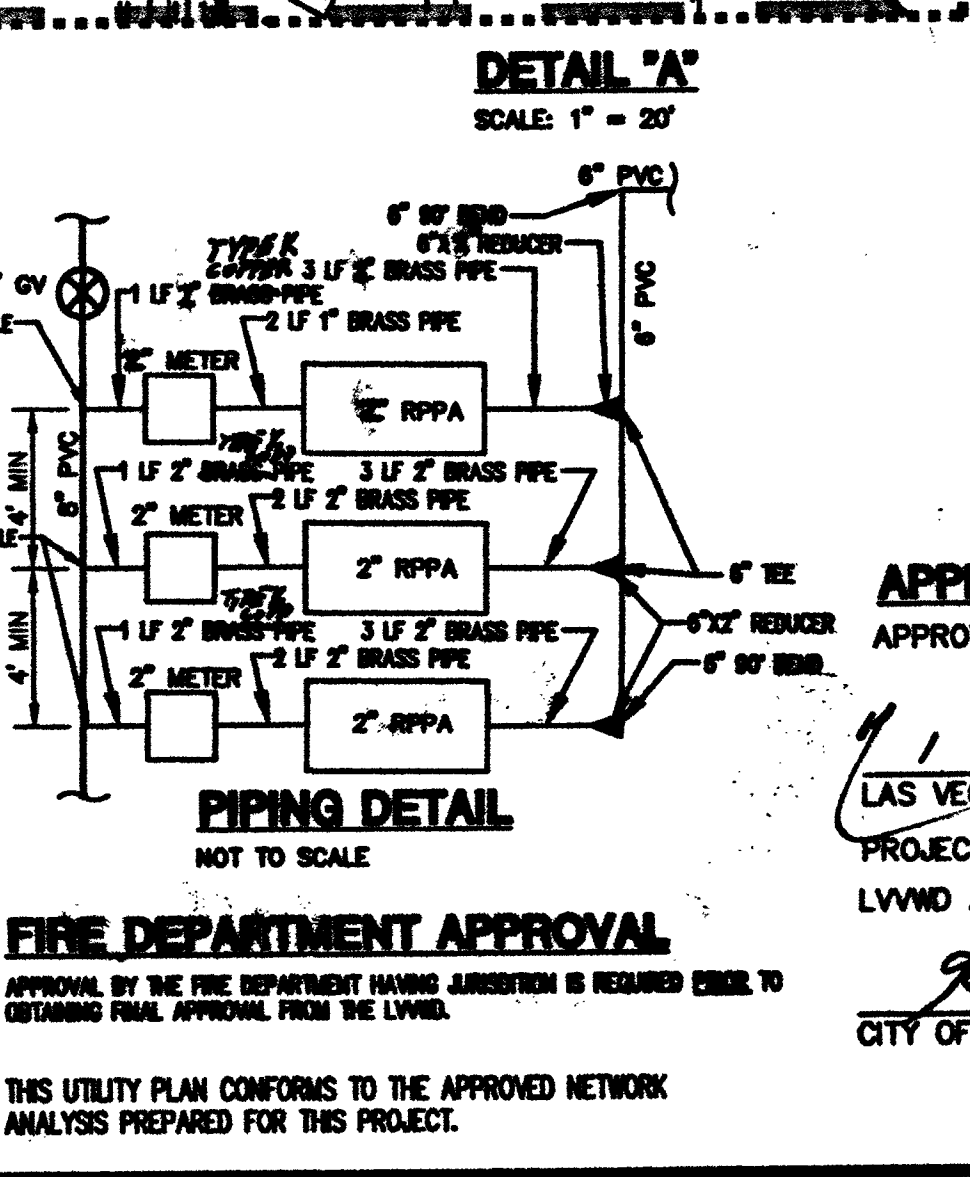
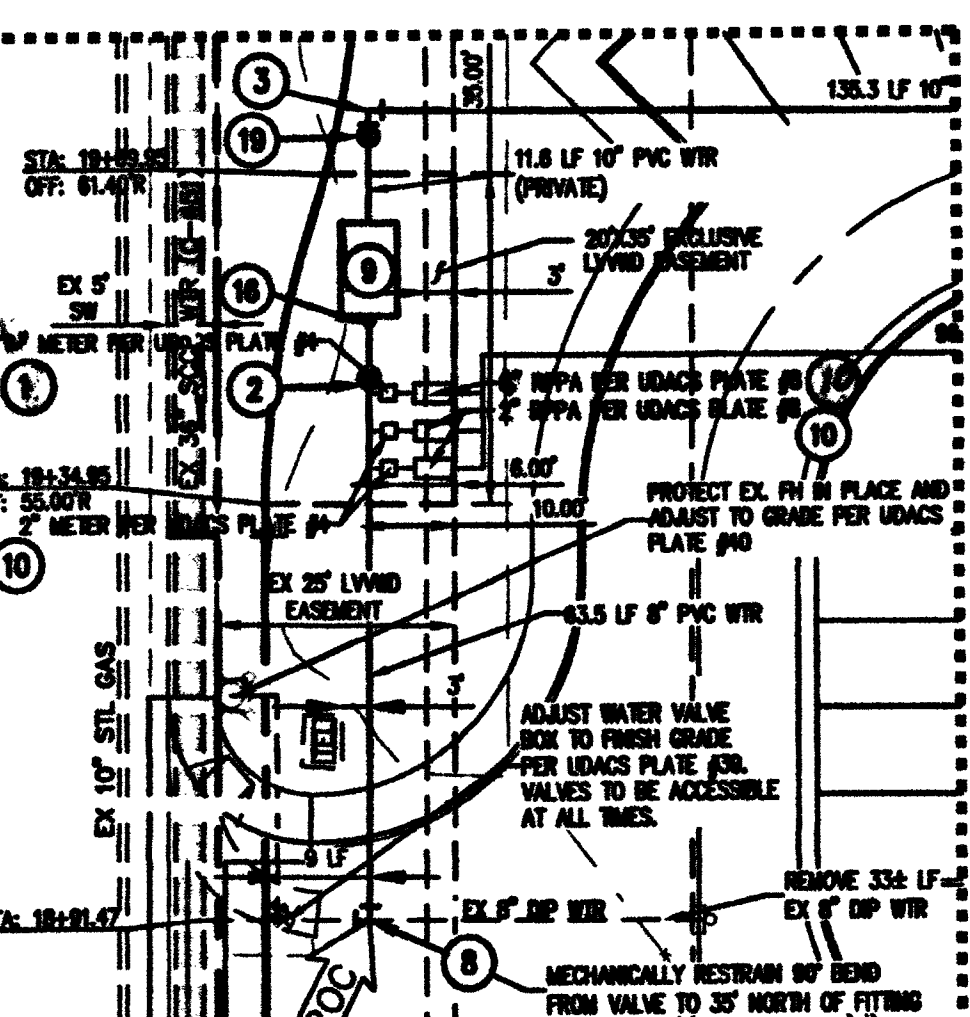
OVERATION DEVELOPMENT
6021 SOUTH FORT APACHE ROAD, #100
LAS VEGAS, NEVADA 89148

DEVELOPER
OVERATION DEVELOPMENT
6021 S. FORT APACHE ROAD #100
LAS VEGAS, NV 89148
702-990-2380 (PHONE)
702-990-2381 (FAX)

OWNER
BUFFALO PEAK APTS, LLC
C/O OVERATION DEVELOPMENT
6021 S. FORT APACHE ROAD, #100
LAS VEGAS, NV 89148
(702) 990-2380 (PHONE)
(702) 990-2381 (FAX)

EXCESSIVE PRESSURE
THIS PROPERTY DOES NOT HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEREVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE IS THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LVWD FACILITIES.

FOR THIS PROPERTY, THE STATIC PRESSURE IS 64.13 PSI. EXCESSIVE PRESSURE IS EXPERIENCED WHEN THE FINISHED FLOOR ELEVATION IS LESS THAN 2353.33, WHICH DOES NOT APPLY TO THIS PROJECT.



WARNING FIRE LINE (NON-POTABLE WATER)
ALL EXISTING WELDOVERS OR PROPOSED WELDOVERS SHALL BE INSTALLED TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE WATER AT ANY TIME.

ALL SEWER/STORM DRAININGS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDCS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARINGS.

APPROVALS
APPROVED FOR CONSTRUCTION

ASBUILT

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT# 123532 DATE: 3/21/16
LVWD APPROVED FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

CITY OF LAS VEGAS FIRE AND RESCUE

CLV#107V5035
H#57782

UTILITY PLAN 1

BUFFALO-PEAK APARTMENTS
CITY OF LAS VEGAS, NEVADA

Impulse
Civil Engineering & Planning

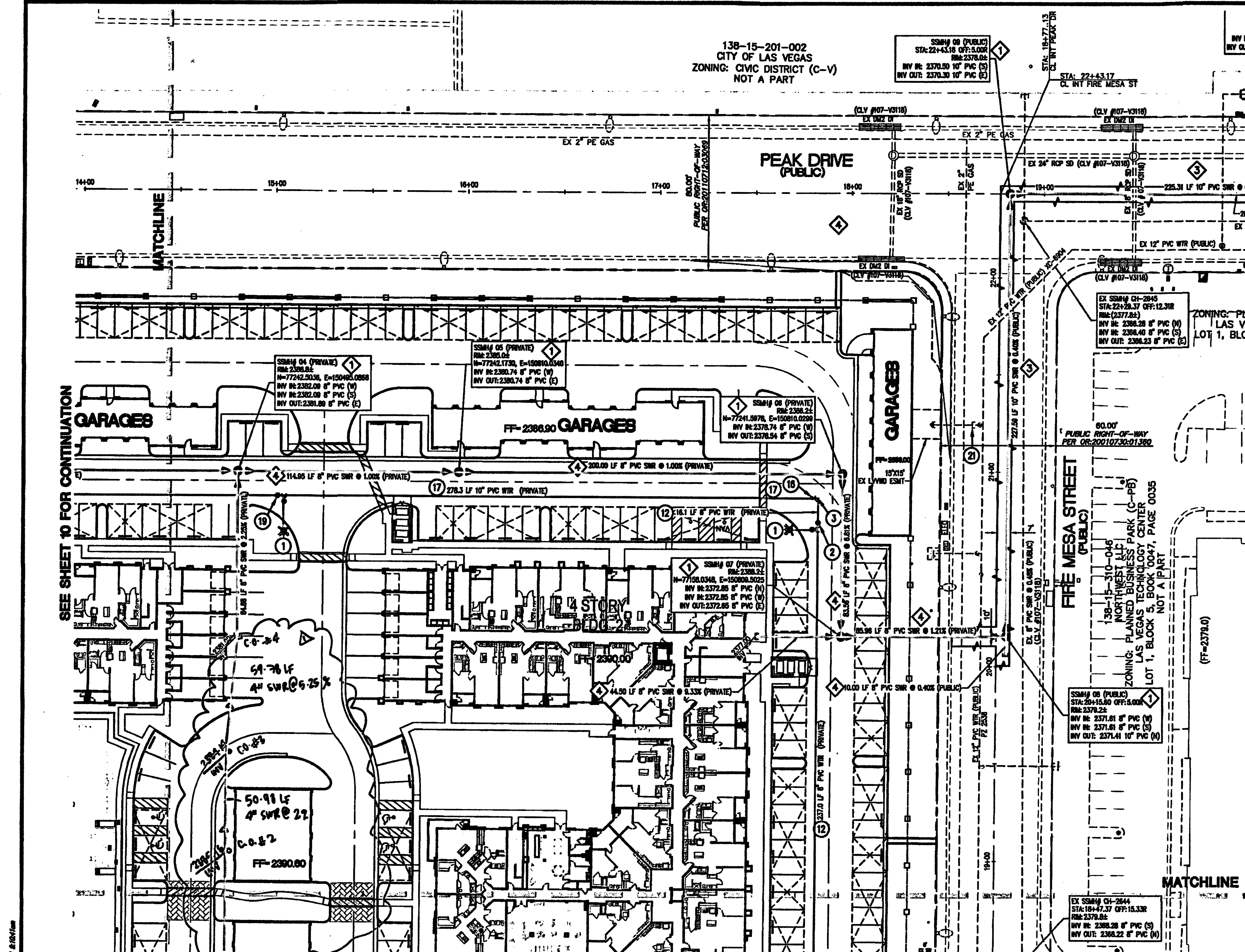
10 of 19 SHEETS

DATE: 3/21/16

SCALE: 1" = 20'

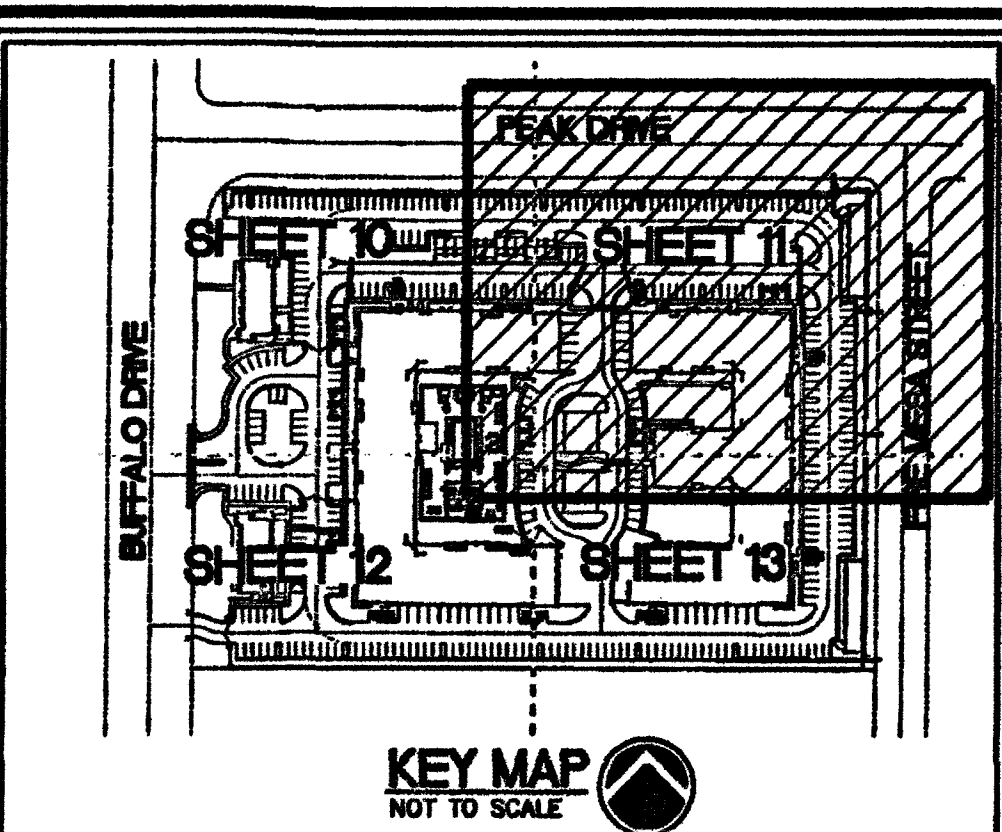
APP BY: [Signature]

APP DATE: [Signature]



FIRE FLOW INFORMATION BLOCK

USE/OCCUPANCY	R-2 APARTMENT
TYPE OF CONSTRUCTION (BOC)	Y-A
FIRE FLOW	4000 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS	YES
NFPA 13	X 13R 130
ESFR	NO
SQUARE FOOTAGE	200,000 SF
LARGEST AREA BETWEEN 4 HOURS WALLS	N/A
BUILDING HEIGHT	67
# OF STORES INCLUDING BASEMENT	4
HIGH PILED COMBUSTIBLE STORAGE	NO
# OF HYDRANTS INSTALLED	6 (PV7)
SPRINKLER SYSTEM - 250 GPM 308 UNITS, 1216 AC	



WASTEWATER FLOW CALCULATION

APARTMENTS - 308 UNITS
WASTEWATER FLOW = 0.70 ERU
1 ERU = 250 GPD
PEAK FACTOR = 3.5

AVERAGE FLOW = 308 x 0.70 x 250 = 53,550 GPD
PEAK FLOW = 3.5 x 53,550 = 187,425 GPD = 0.18 MGD

COMMERCIAL PORTION - 8,000 SF - 57 dFU
WASTEWATER FLOW = 0.45 ERU
1 ERU = 250 GPD
PEAK FACTOR = 3.5

YOGA STUDIO - 9 dFU
1 DRINKING FOUNTAIN x 1 dFU = 1
1 WASH/SINK x 2 dFU = 2
1 WATER CLOSET x 4 dFU = 4
1 URINAL x 2 dFU = 2

PEY WASH - 9 dFU
1 DRINKING FOUNTAIN x 1 dFU = 1
1 WASH/SINK x 2 dFU = 2
1 WATER CLOSET x 4 dFU = 4
1 URINAL x 2 dFU = 2
1 FLOOR DRAIN x 0 dFU = 0

RETAIL OFFICE/LEASING OFFICE x 3 UNITS - 27 dFU
1 DRINKING FOUNTAIN x 1 dFU = 1 x 3 UNITS = 3
1 WASH/SINK x 2 dFU = 2 x 3 UNITS = 6
1 WATER CLOSET x 4 dFU = 4 x 3 UNITS = 12
1 URINAL x 2 dFU = 2 x 3 UNITS = 6

MODEL UNIT - 12 dFU
1 BATHUB x 2 dFU = 2
1 DISHWASHER x 2 dFU = 2
1 CLOTHES WASHER x 3 dFU = 3
1 LAUNDRY x 1 dFU = 1
2 WASH/SINK x 2 dFU = 4

AVERAGE FLOW = 57 x 0.45 x 250 = 6,412.50 GPD
PEAK FLOW = 3.5 x 6,412.50 = 22,443.75 GPD = 0.02 MGD

TOTAL AVERAGE FLOW = 59,962.50 GPD
TOTAL PEAK FLOW = 0.18 + 0.02 = 0.20 MGD

LEGEND

SYMBOLS		DESCRIPTION
EXISTING	PROPOSED	
---	---	WATER LINE
---	---	SEWER LINE
---	---	STORM DRAIN LINE
---	---	GAS LINE
---	---	WATER SERVICE LATERAL
---	---	SEWER SERVICE LATERAL
---	---	FIRE HYDRANT W/ASSEMBLY
---	---	SEWER MANHOLE
---	---	STORM DRAIN MANHOLE
---	---	GATE VALVE
---	---	SEWER CLEANOUT
---	---	SIAMSE FDC W/ 4" LINE TO RISER ROOM

- WATER CONSTRUCTION NOTE**
- 1. INSTALL FIRE HYD. W/ASSEM. PER UDACS PLATE #40
 - 2. INSTALL 8" GATE VALVE PER UDACS PLATE #30 & #39
 - 3. INSTALL 8" 90° BEND PER UDACS PLATE #31
 - 4. INSTALL 8" TEE PER UDACS PLATE #31
 - 5. INSTALL 8" 45° BEND PER UDACS PLATE #31
 - 6. INSTALL SIAMSE FDC ON BUILDING
 - 7. INSTALL 8" 90° BEND CONNECT TO EX 8" DIP
 - 8. INSTALL 10" RPDA PER UDACS PLATE #50
 - 9. INSTALL 2" METER AND 2" RPDA PER UDACS PLATES #4 & #5
 - 10. INSTALL 1" METER AND 1" RPDA PER UDACS PLATES #4 & #5
 - 11. INSTALL 8" PVC WATER
 - 12. INSTALL 4" PVC WATER
 - 13. INSTALL 1-1/2" PVC WATER
 - 14. REMOVE CAP & BLOW-OFF AND CONNECT
 - 15. INSTALL 10" 90° REDUCER PER UDACS PLATE #30
 - 16. INSTALL 10" PVC WATER
 - 17. INSTALL 10" 90° BEND PER UDACS PLATE #31
 - 18. INSTALL 10" GATE VALVE PER UDACS PLATE #30 & #39
 - 19. INSTALL 10" TEE PER UDACS PLATE #31
 - 20. ABANDON VALVE, CUT & INSTALL CAP, SEE NOTE
 - 21. INSTALL 10" x 8" TEE PER UDACS PLATE #31
 - 22. INSTALL 8" 90° BEND PER UDACS PLATE #31
 - 23. INSTALL 10" x 8" TEE PER UDACS PLATE #31
 - 24. INSTALL 8" PVC WATER
 - 25. INSTALL 1" RPDA (IRRIGATION) PER UDACS PLATE #4

EXCESSIVE PRESSURE

THIS PROPERTY DOES NOT HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE, PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LVWD FACILITIES.

FOR THIS PROPERTY, THE STATIC PRESSURE IS 64.13 PSI. EXCESSIVE PRESSURE IS EXPERIENCED WHEN THE FINISHED FLOOR ELEVATION IS LESS THAN 2333.30, WHICH DOES NOT APPLY TO THIS PROJECT.

NEW MANHOLE #6 SHALL CONTAIN CORROSION PROTECTION, SEE DCSMS SECTION 4.9.9.A FOR FACTORY INSTALLED OR 4.9.9.B FOR FIELD INSTALLED CORROSION PROTECTION.

- SEWER CONSTRUCTION NOTE**
- 1. INSTALL 48" STANDARD PRE-CAST MANHOLE BASE PER DCSMS 09 - #20-1A, SD-1B, (SINGLE COVER)
 - 2. INSTALL 6" PVC SEWER LATERAL AS PER DCSMS 09 - #20-22 & SD-23
 - 3. INSTALL 10" PVC SEWER
 - 4. INSTALL 8" PVC SEWER
 - 5. STUB AND CAP ALL LATERALS 6" FROM BUILDING. SEE PLUMBING PLANS FOR CONTINUATION AND CONN. POINT.

OVATION

OVATION DEVELOPMENT
6021 SOUTH FORT APACHE ROAD, #100
LAS VEGAS, NEVADA 89148

DEVELOPER
OVATION DEVELOPMENT
6021 S. FORT APACHE ROAD #100
LAS VEGAS, NV 89148
702-990-2390 (PHONE)
702-990-2391 (FAX)

OWNER
BUFFALO PEAK APTS, LLC
C/O OVATION DEVELOPMENT
6021 S. FORT APACHE ROAD, #100
LAS VEGAS, NV 89148
(702) 990-2390 (PHONE)
(702) 990-2391 (FAX)

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

NOTE

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.

NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY OF LAS VEGAS AND THE CITY OF LAS VEGAS FIRE AND RESCUE ON ROAD CLOSURE AND TEMPORARY ACCESS ISSUES.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # 01001824
INLET & PLATE IN TOP OF CURB WEST SIDE OF BUFFALO +/- 200 FEET NORTH OF PEAK DRIVE

NAVD 83 DATUM
ELEVATION = 728.145 METERS
ELEVATION = 3382.20 U.S. SURVEY FEET

BASIS OF BEARINGS:

BEING A PORTION OF LOT 1, BLOCK 5 OF "LAS VEGAS TECHNOLOGY CENTER" AS SHOWN BY MAP THEREOF ON FILE IN BOOK 47, PAGE 35 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA, LIVING WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 15, TOWNSHIP 20 SOUTH, RANGE 30 EAST, NAD 83, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

CAUTION TO CONTRACTOR!

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CONSTRUCTION NOTES

1. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. W/IN, W/IN, ANKOR BOX, FL, TEL. BOX, ETC.)
2. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. SEWER CLEANOUTS IN PAVED AREAS SHALL HAVE VALVE BOXES WITH TRAFFIC BEARING LIDS AND CONCRETE COLLARS.
5. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEM" (UDACS), LATEST EDITION.
6. THE CONTRACTOR IS TO INSTALL A PLASTIC LANDSCAPE METER BOX AT THE LOCATION WHERE THE WATER LATERAL TERMINATES TO EACH BUILDING.

TRENCH & BACKFILL NOTE:

1. TRENCH AND BACKFILL ALL SEWER MAIN FEED DRAINAGES 30"-12".
2. TRENCH AND BACKFILL ALL WATER MAINS PER UDACS PLATE 17.
3. TRENCH AND PAVEMENT RESTORATION PER CC AREA STD DWG 5000T, 5000L2, AND 5003

Call Before You Dig
CALL 811
1-800-221-2600
1-800-455-6000
CLARK COUNTY TRAFFIC OPERATIONS
1-800-455-6000

Call Before You UnderGround
1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

SEE SHEET 13 FOR CONTINUATION

ABANDONED VALVES CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF SIX (6) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS. THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

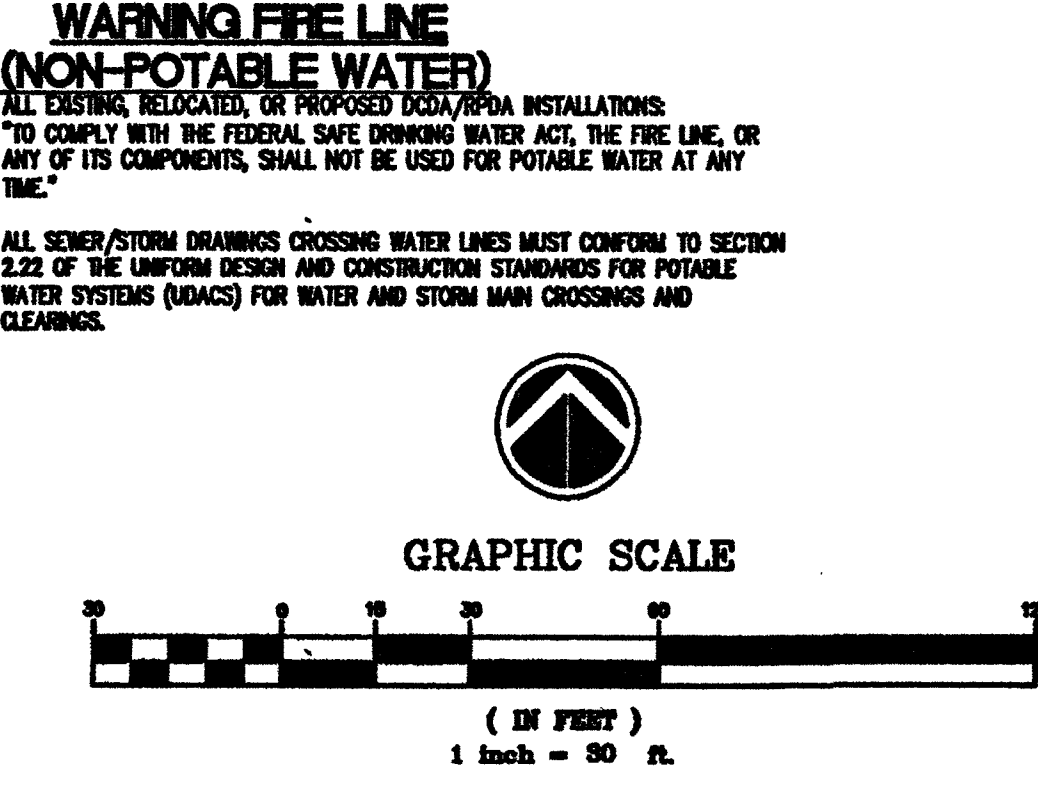
WARNING FIRE LINE (NON-POTABLE WATER)

ALL EXISTING, RELOCATED, OR PROPOSED DCA/PPDA INSTALLATIONS TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE WATER AT ANY TIME.

ALL SEWER/STORM DRAININGS CROSSING WATER LINES MUST CONFORM TO SECTION 2.2.2 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARINGS.

WATER MAIN JOINT DEFLECTION (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE 1,100 FEET, PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.



NOTE

ALL ABOVE GROUND UTILITY APPOINTMENTS SHALL CONFORM WITH THE REQUIREMENTS OF TILES 15.03 & 15.05

NOTE

FOR QUANTITY ESTIMATES SEE COVER SHEET

ASBUILT

APPROVALS

APPROVED FOR CONSTRUCTION

Y. Disha
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT# 123532 DATE: 3/21/16
LVWD APPROVED FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL
K. Jia
CITY OF LAS VEGAS FIRE AND RESCUE
DATE: 3/14/16

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

THIS UTILITY PLAN CONFORMS TO THE APPROVED NETWORK ANALYSIS PREPARED FOR THIS PROJECT.

CLV# 107V5035
H#57782

UTILITY PLAN 2

BUFFALO-PEAK APARTMENTS
CITY OF LAS VEGAS, NEVADA

Impulse
Civil Engineering & Planning

Professional Engineer
PETER J. LAS
Exp: 12/21/17
CIVIL
No. 14444 NVEN 40
3/11/16

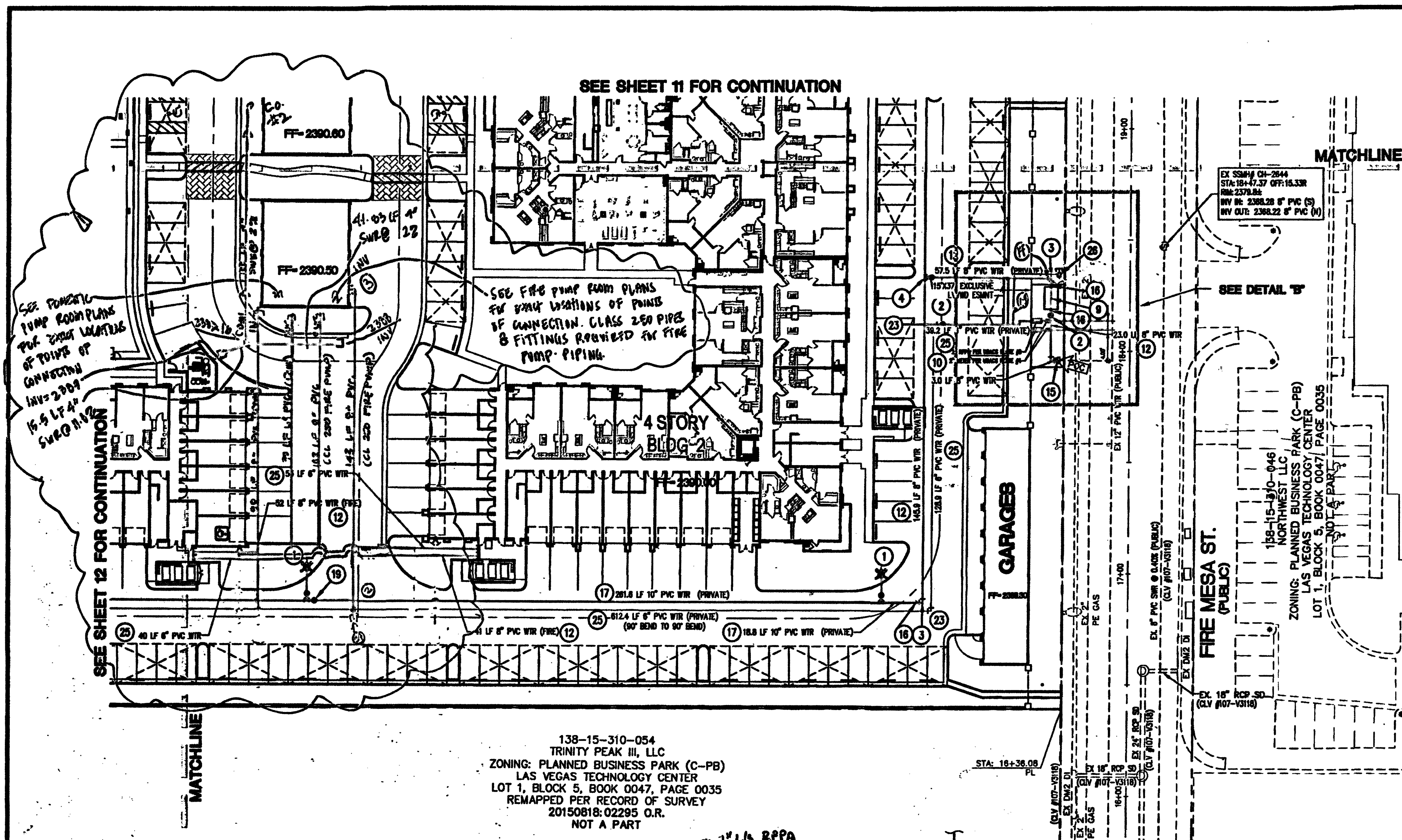
ASBUILT

Impulse
Civil Engineering & Planning

11 of 19 SHEETS

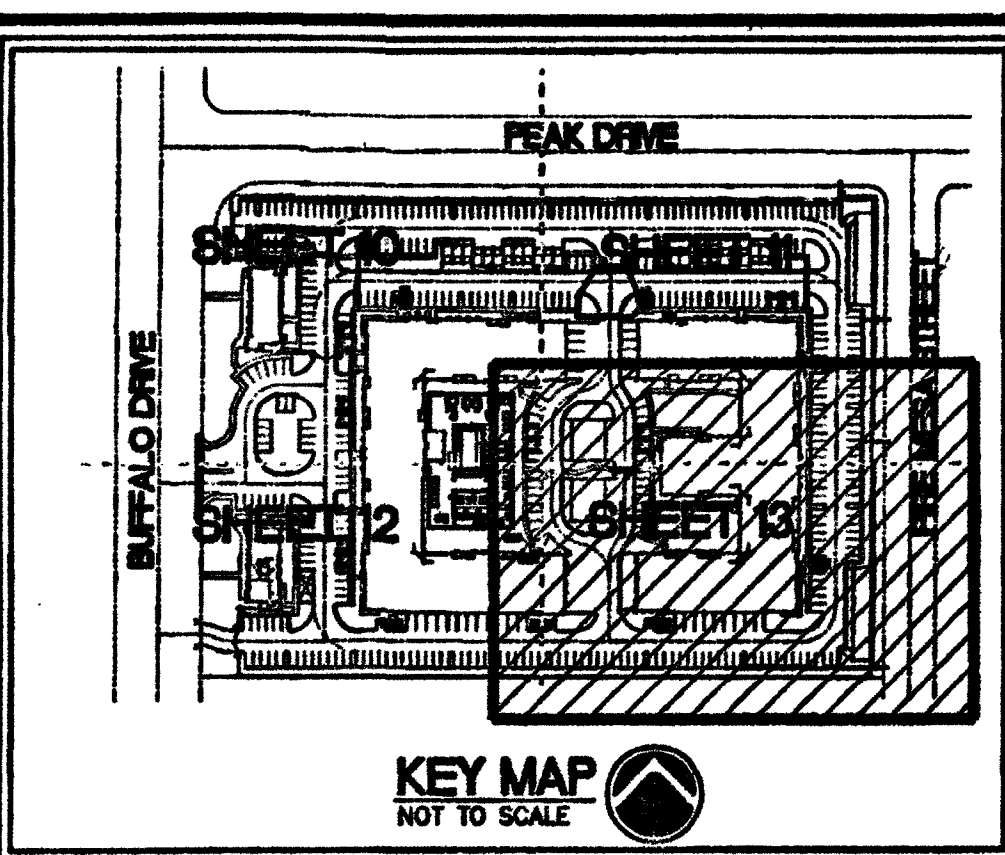
DATE: 3/21/16

SCALE: 1" = 30'



FIRE FLOW INFORMATION BLOCK

USE/OCCUPANCY: R-2 APARTMENT
 TYPE OF CONSTRUCTION (IBC): V-A
 FIRE FLOW: 4,000 GPM @ 20 PSI
 AUTOMATIC FIRE SPRINKLERS: YES
 NFPA 13: X 13R 13D
 ESFR: NO
 SQUARE FOOTAGE: 200,888 SF
 LARGEST AREA BETWEEN 4 HOURS WALLS: N/A
 BUILDING HEIGHT: 57'
 # OF STORIES INCLUDING BASEMENT: 4
 HIGH PILED COMBUSTIBLE STORAGE: NO
 # OF HYDRANTS INSTALLED: 6 (PVT)
 SPRINKLER SYSTEM: 250 GPM
 308 UNITS, 12.18 AC



WASTEWATER FLOW CALCULATION

APARTMENTS - 308 UNITS
 WASTEWATER FLOW = 0.70 ECU
 1 ECU = 250 GPD
 PEAK FACTOR = 3.5
 AVERAGE FLOW = 308 x 0.70 x 250 = 53,550 GPD
 PEAK FLOW = 3.5 x 53,550 = 187,425 GPD = 0.18 MGD

COMMERCIAL PORTION - 0,000 SF - 57 dFU
 WASTEWATER FLOW = 0.45 ECU
 1 ECU = 250 GPD
 PEAK FACTOR = 3.5
 AVERAGE FLOW = 57 x 0.45 x 250 = 6,412.50 GPD
 PEAK FLOW = 3.5 x 6,412.50 = 22,443.75 GPD = 0.02 MGD

YOGA STUDIO - 9 dFU
 1 DRINKING FOUNTAIN x 1 dFU = 1
 1 WASH/SINK x 2 dFU = 2
 1 WATER CLOSET x 4 dFU = 4
 1 URINAL x 2 dFU = 2
 1 FLOOR DRAIN x 0 dFU = 0

PET WASH - 3 dFU
 1 DRINKING FOUNTAIN x 1 dFU = 1
 1 WASH/SINK x 2 dFU = 2
 1 WATER CLOSET x 4 dFU = 4
 1 URINAL x 2 dFU = 2
 1 FLOOR DRAIN x 0 dFU = 0

RETAIL OFFICE/LEASING OFFICE x 3 UNITS - 27 dFU
 1 DRINKING FOUNTAIN x 1 dFU = 1
 1 WASH/SINK x 2 dFU = 2
 1 WATER CLOSET x 4 dFU = 4
 1 URINAL x 2 dFU = 2
 1 FLOOR DRAIN x 0 dFU = 0

MODEL UNIT - 12 dFU
 1 BATHROOM x 2 dFU = 2
 1 DISHWASHER x 2 dFU = 2
 1 CLOTHES WASHER x 3 dFU = 3
 1 LAVATORY x 1 dFU = 1
 2 WASH/SINK x 2 dFU = 4

AVERAGE FLOW = 57 x 0.45 x 250 = 6,412.50 GPD
 PEAK FLOW = 3.5 x 6,412.50 = 22,443.75 GPD = 0.02 MGD

TOTAL AVERAGE FLOW = 59,962.50 GPD
 TOTAL PEAK FLOW = 0.18 + 0.02 = 0.20 MGD

LEGEND

SYMBOLS		DESCRIPTION
EXISTING	PROPOSED	
---	---	WATER LINE
---	---	SEWER LINE
---	---	STORM DRAIN LINE
---	---	GAS LINE
---	---	SEWER SERVICE LATERAL
---	---	SEWER SERVICE LATERAL
---	---	FIRE HYDRANT W/ASSEMBLY
---	---	SEWER MANHOLE
---	---	STORM DRAIN MANHOLE
---	---	GATE VALVE
---	---	SEWER CLEANOUT
---	---	SIAMSE FDC W/ 4" LINE TO RISER ROOM

- WATER CONSTRUCTION NOTE**
1. INSTALL FIRE HYD W/ASSEM PER UDACS PLATE #40
 2. INSTALL 8" GATE VALVE PER UDACS PLATE #30 & #31
 3. INSTALL 4" 90° BEND PER UDACS PLATE #31
 4. INSTALL 8" TEE PER UDACS PLATE #31
 5. INSTALL 8"x4" TEE PER UDACS PLATE #31
 6. INSTALL 4" 45° BEND PER UDACS PLATE #31
 7. INSTALL SIAMSE FDC ON BUILDING
 8. INSTALL 8" 90° BEND CONNECT TO EX 8" DIP
 9. INSTALL 10" RPOA PER UDACS PLATE #30
 10. INSTALL 2" METER AND 2" RPPA PER UDACS PLATES #4 & #5
 11. INSTALL 1" METER AND 1" RPPA PER UDACS PLATES #4 & #5
 12. INSTALL 8" PVC WATER
 13. INSTALL 4" PVC WATER
 14. INSTALL 1-1/2" PVC WATER
 15. REMOVE CAP & BLOW-OFF AND CONNECT
 16. INSTALL 10"x8" REDUCER PER UDACS PLATE #30
 17. INSTALL 10" PVC WATER
 18. INSTALL 10" 90° BEND PER UDACS PLATE #31
 19. INSTALL 10" GATE VALVE PER UDACS PLATE #30 & #31
 20. INSTALL 10" TEE PER UDACS PLATE #31
 21. ABANDON VALVE, CUT & INSTALL CAP, SEE NOTE
 22. INSTALL 10" x 4" TEE PER UDACS PLATE #31
 23. INSTALL 8" 90° BEND PER UDACS PLATE #31
 24. INSTALL 10" x 8" TEE PER UDACS PLATE #31
 25. INSTALL 8" PVC WATER
 26. INSTALL 1" RPPA (IRRIGATION) PER UDACS PLATE #5

- EXCESSIVE PRESSURE**
- THIS PROPERTY DOES NOT HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE DEVELOPERS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF THE LVND FACILITIES.
- FOR THIS PROPERTY, THE STATIC PRESSURE IS 84.13 PSI. EXCESSIVE PRESSURE IS EXPERIENCED WHEN THE FINISHED FLOOR ELEVATION IS LESS THAN 3353.30, WHICH DOES NOT APPLY TO THIS PROJECT.
- SEWER CONSTRUCTION NOTE**
- 1. INSTALL 48" STANDARD PRE-CAST MANHOLE BASE PER UDACS #9 - #50-1A, SD-1B, (SINGLE COVER)
 - 2. INSTALL 8" PVC SEWER LATERAL AS PER UDACS #9 - #50-22 & SD-23
 - 3. INSTALL 10" PVC SEWER
 - 4. INSTALL 8" PVC SEWER
 - 5. STUD AND CAP ALL LATERALS 8' FROM BUILDING. SEE PLUMBING PLANS FOR CONTINUATION AND CONN. POINT.

WARNING FIRE LINE (NON-POTABLE WATER)

ALL EXISTING, RELOCATED, OR PROPOSED DCA/ADPA INSTALLATIONS TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE WATER AT ANY TIME.

ALL SEWER/STORM DRAININGS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARINGS.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) 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OVATION

OVATION DEVELOPMENT
6021 SOUTH FORT APACHE ROAD, #100
LAS VEGAS, NEVADA 89148

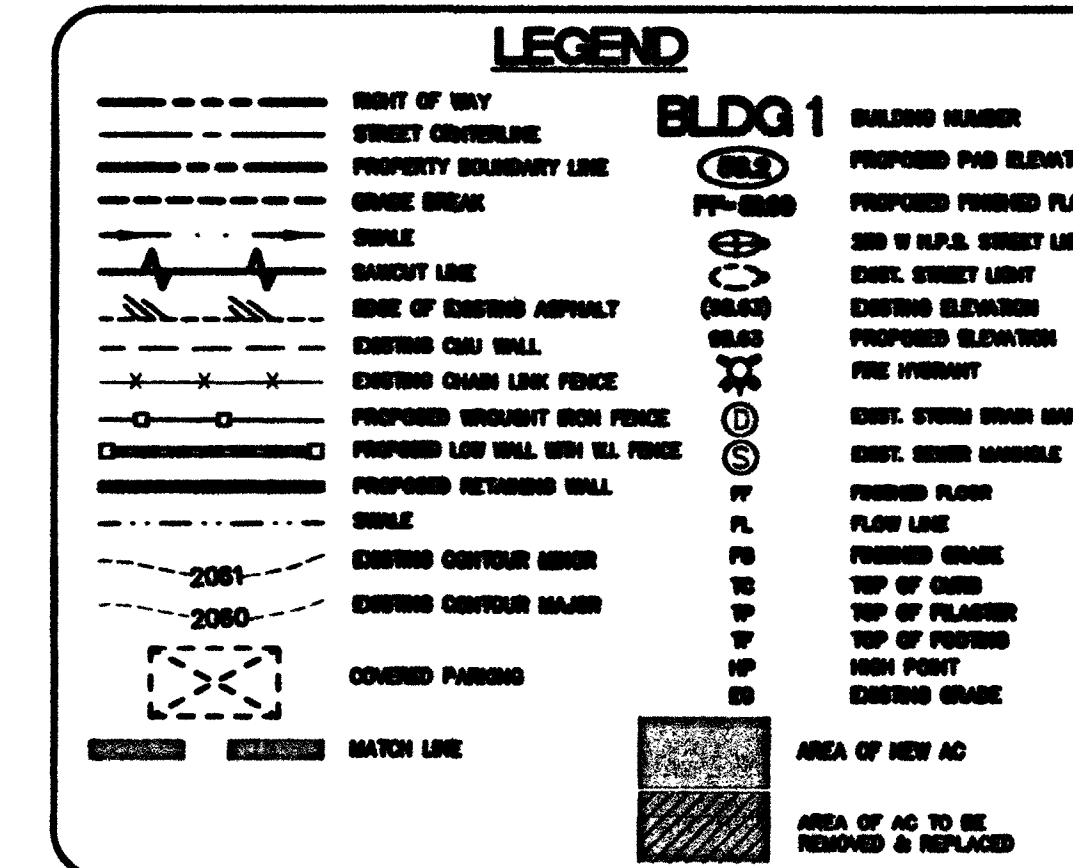
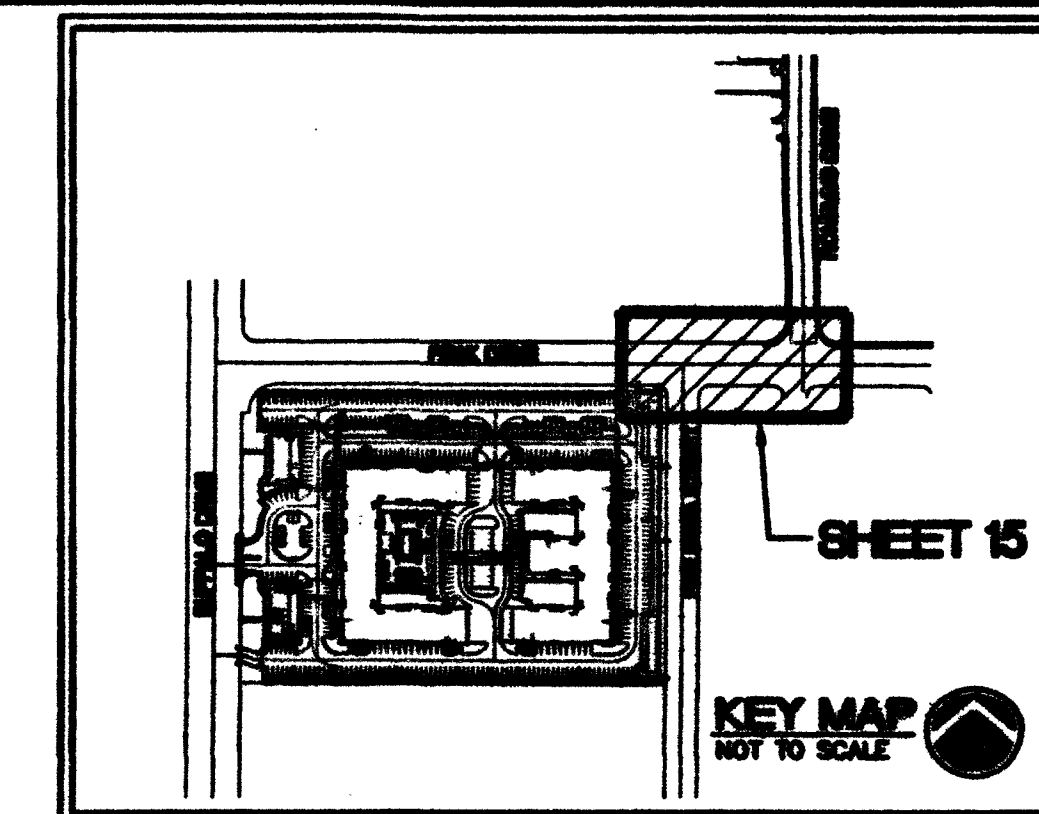
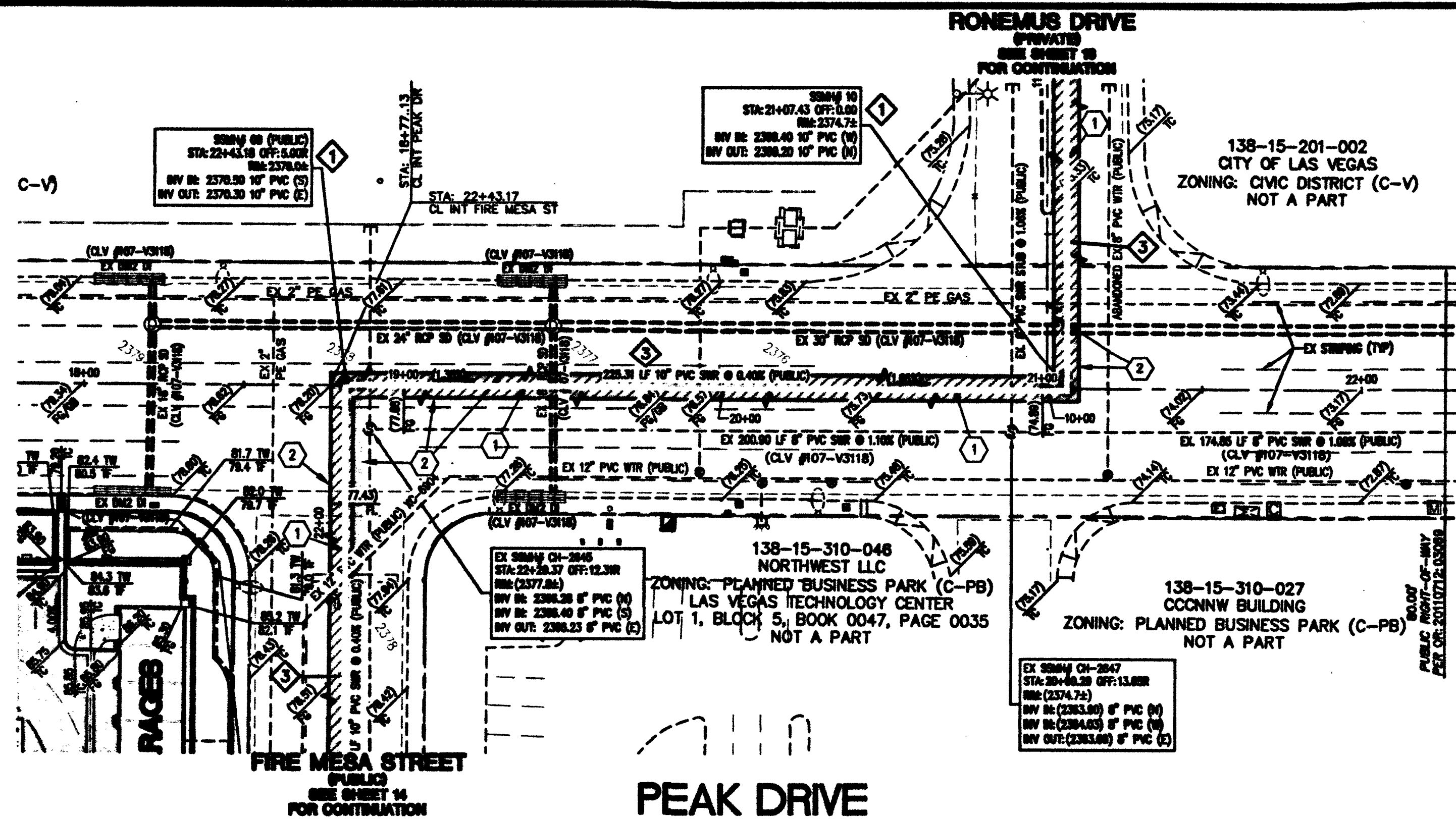
DEVELOPER

OVATION DEVELOPMENT
6021 S. FORT APACHE ROAD #100
LAS VEGAS, NV 89148
702-990-2390 (PHONE)
702-990-2391 (FAX)

OWNER

BUFFALO PEAK APTS, LLC
0/20 OVATION DEVELOPMENT
6021 S. FORT APACHE ROAD, #100
LAS VEGAS, NV 89148
(702) 990-2390 (PHONE)
(702) 990-2391 (FAX)

CLV# 107V505
H#57782



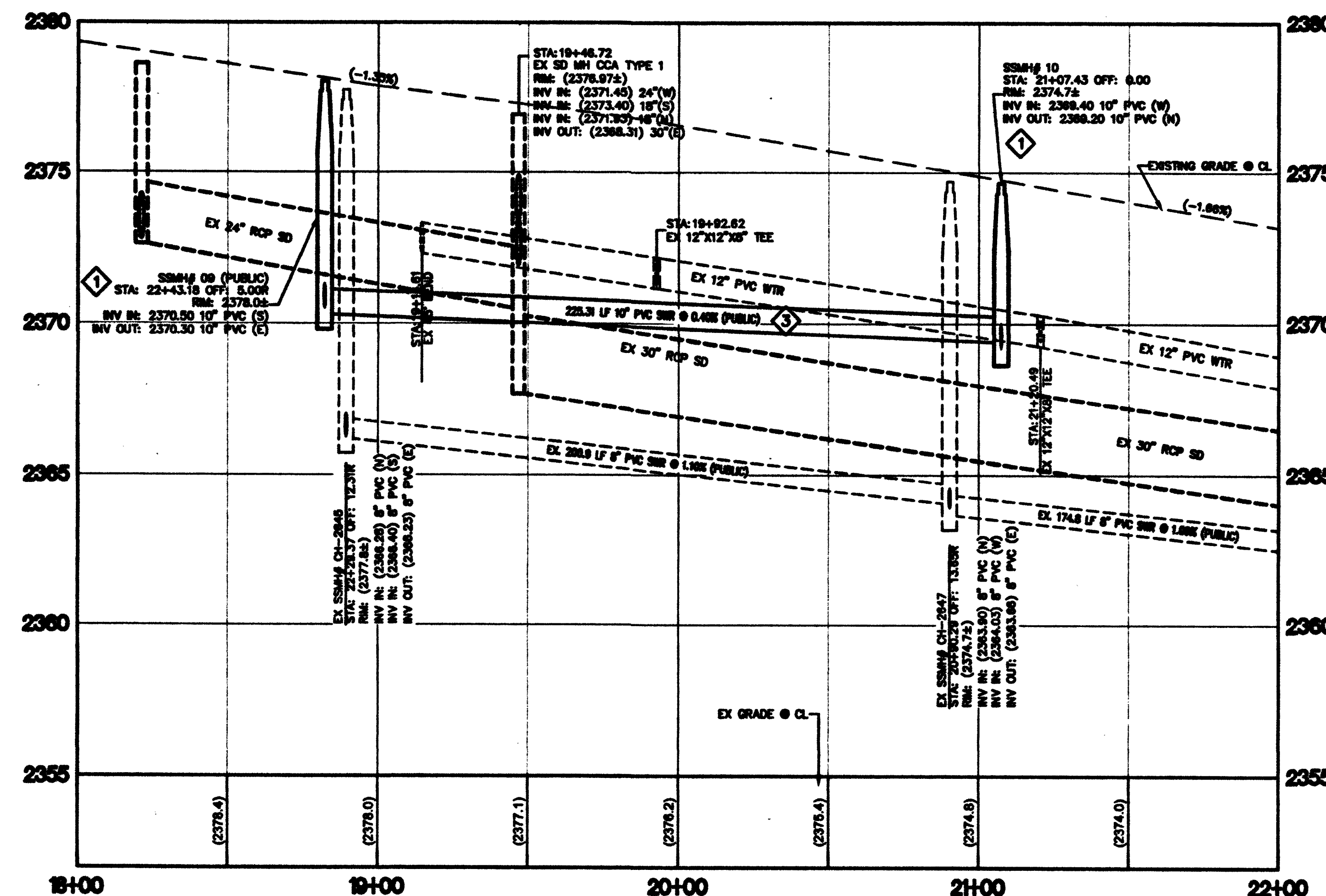
- SEWER CONSTRUCTION NOTE**
- 1. INSTALL 48" STANDARD PRE-CAST MANHOLE BASE PER DESIGN, 18" DIA. SD-18 (SMALL COVER)
 - 2. CONNECT TO EX 48" MANHOLE
 - 3. INSTALL 10" PVC SEWER MAIN
 - 4. INSTALL 6" PVC SEWER MAIN

- CONSTRUCTION NOTES**
- 1. TRENCH BACKFILL AND AC PAVEMENT RESTORATION PER COUNTY # 503, 503.3, 503.4 AND 503.5
 - 2. SAWCUT AND MATCH

ASBUILT

APPROVED FOR CONSTRUCTION

Y. Pisharpor
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT# 123532 DATE: 3/21/16
LVVWD APPROVED FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL



TRENCH & BACKFILL NOTE

- 1. TRENCH AND BACKFILL ALL SEWER MAIN PER BACKFILL 10-17.
- 2. TRENCH AND BACKFILL ALL WATER MAIN PER BACKFILL 17.
- 3. TRENCH AND PAVEMENT RESTORATION PER CC AREA STD DUG OUT, CORREL, AND 503

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREIN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK (CLIMBER) SET & PLATE IN TOP OF CURB WEST SIDE OF BUFFALO +/- 200 FEET NORTH OF PEAK DRIVE

BASIS OF BEARINGS

BEING A PORTION OF LOT 1, BLOCK 5 OF "LAS VEGAS TECHNOLOGY CENTER" AS SHOWN BY MAP THEREOF ON FILE IN BOOK 47, PAGE 30 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, BEING A PORTION OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 15, TOWNSHIP 20 SOUTH, RANGE 60 EAST, N.M.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.



Ovation

Ovation Development
6021 SOUTH FORT APACHE ROAD, #100
LAS VEGAS, NEVADA 89148

DEVELOPER

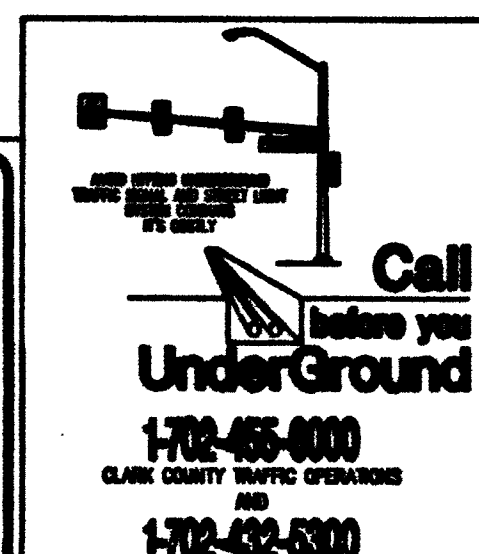
Ovation Development
6021 S. FORT APACHE ROAD #100
LAS VEGAS, NV 89148
702-880-2380 (PHONE)
702-880-2381 (FAX)

OWNER

BUFFALO PEAK APTS, LLC
C/O OVATION DEVELOPMENT
6021 S. FORT APACHE ROAD, #100
LAS VEGAS, NV 89148
(702) 880-2380 (PHONE)
(702) 880-2381 (FAX)

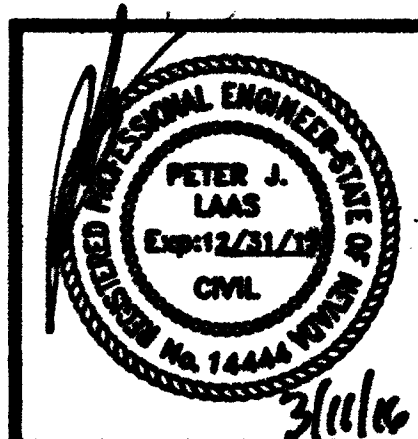
CAUTION TO CONTRACTOR!

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

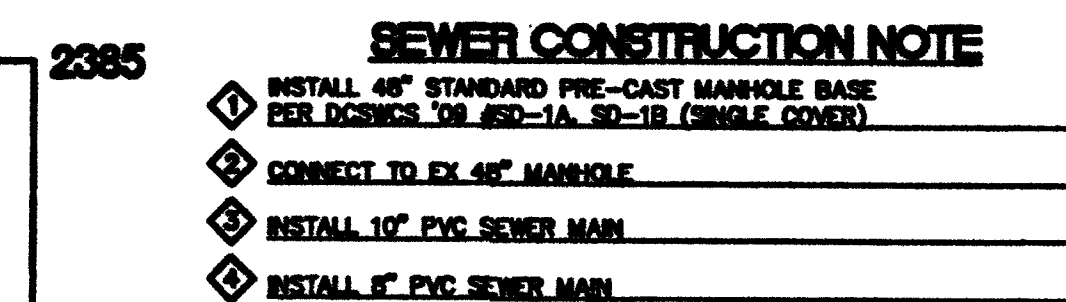
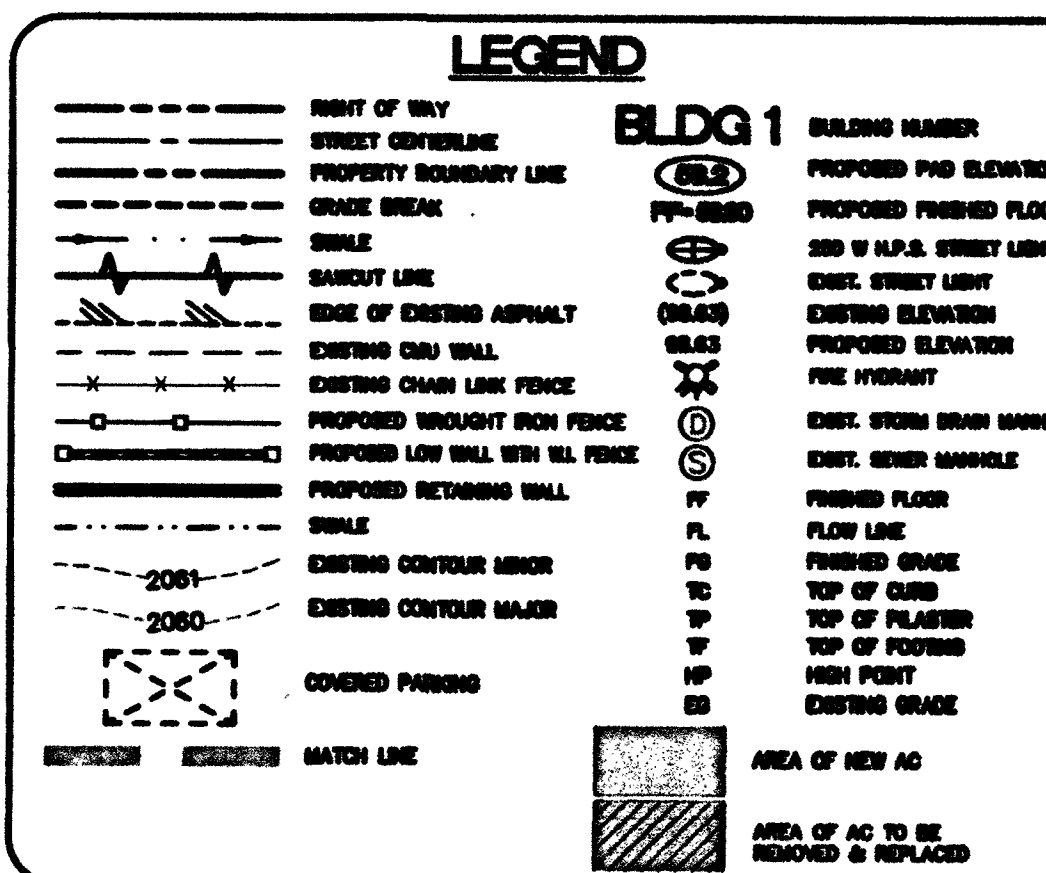
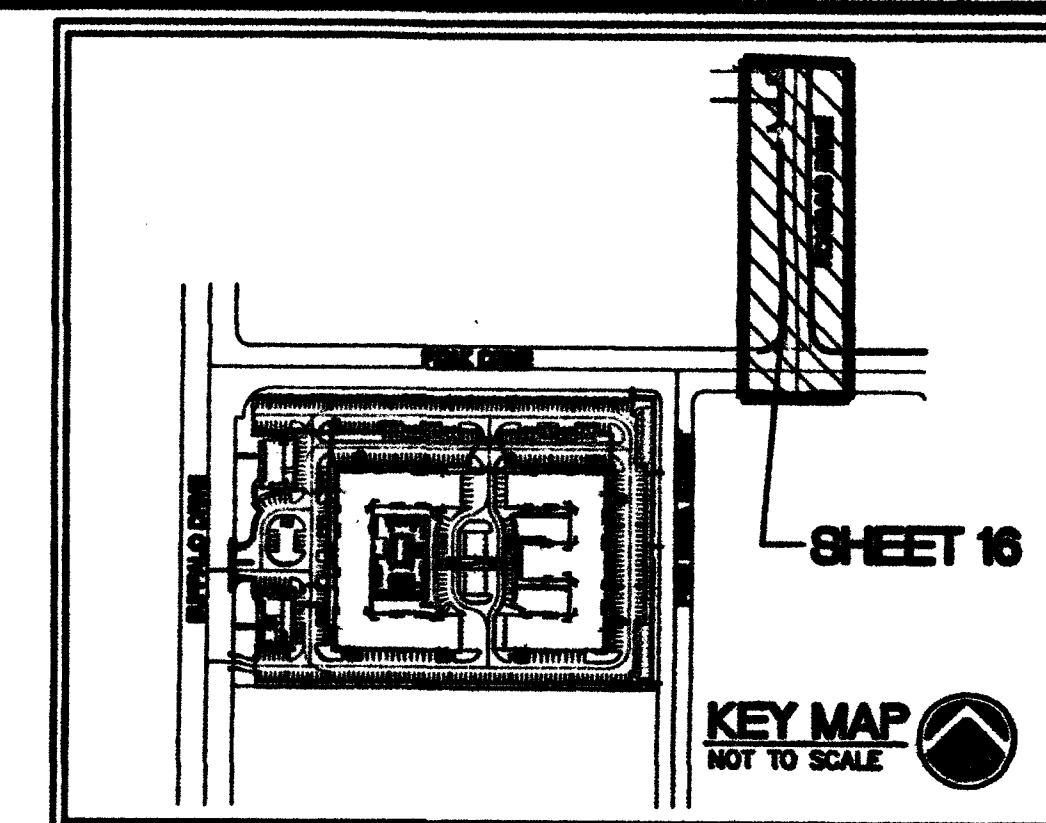


OFF-SITE SEWER PLAN AND PROFILE
PEAK DRIVE

BUFFALO-PEAK APARTMENTS
CITY OF LAS VEGAS, NEVADA



Impulse
Civil Engineering & Planning
15 of 19
SHEET 15 of 19
DATE: 3/21/16
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]



CONSTRUCTION NOTES

① TRENCH BACKFILL AND AC PAVEMENT RESTORATION
PER CCAUSD § 803, 800.3, 800.4 AND 800.5

② SAWCUT AND MATCH



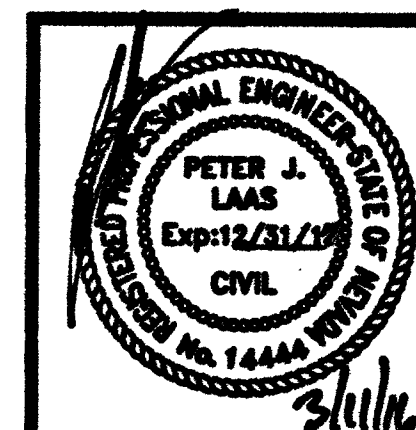
OVATION DEVELOPMENT
6021 SOUTH FORT APACHE ROAD, #100
LAS VEGAS, NEVADA 89148

DEVELOPER

OVATION DEVELOPMENT
8021 S. FORT APACHE ROAD
LAS VEGAS, NV 89148
702-990-2380 (PHONE)
702-990-2381 (FAX)

OWNER

00 **BUFFALO PEAK APTS, LLC**
C/O OVATION DEVELOPMENT
8021 S. FORT APACHE ROAD, #100
LAS VEGAS, NV 89148
(702) 890-2380 (PHONE)
(702) 890-2381 (FAX)



$I = \int F \cdot dt$
CIVIL ENGINEERS • PLANNERS
5135 CHINO AL WYDE, SUITE 204
NORTH LAS VEGAS, NEVADA 89101
PHONE (702) 853-6702
FAX (702) 853-6703

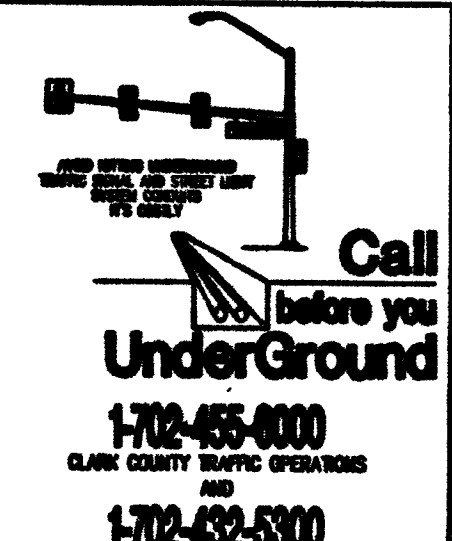
CAUTION TO CONTRACTOR !

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



Call Before You Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.
CALL

1-800-227-2600
AND
CLARK COUNTY TRAFFIC OPERATIONS



BENCHMARK

CITY OF LAS VEGAS BENCHMARK # CLV00084
NINETEEN & PLATE IN TOP OF CURB WEST SIDE OF BUFFALO +/- 200 FEET NORTH OF PEAK DRIVE

NAVD 88 DATUM
ELEVATION = 729.145 METERS
ELEVATION = 2392.30 U.S. SURVEY FEET

BASIS OF BEARINGS:

BEING A PORTION OF LOT 1, BLOCK 5 OF "LAS VEGAS TECHNOLOGY CENTER" AS SHOWN BY MAP THEREOF ON FILE IN BOOK 47, PAGE 35 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA, LYING WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 15, TOWNSHIP 20 SOUTH, RANGE 00 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

TRENCH & BACKFILL NOTE:

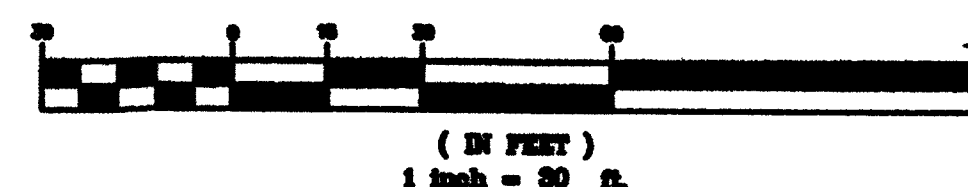
1. TRENCH AND BACKFILL ALL SEWER MAIN PER DACSWS 90-17.
2. TRENCH AND BACKFILL ALL WATER MAINS PER UDACS PLATE 17.
3. TRENCH AND PAVEMENT RESTORATION PER CC AREA STD DWS 500BT, 500BL2 AND 6033.

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



GRAPHIC SCALE



APPROVED FOR CONSTRUCTION

4. Disraeli, Jr. DM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT# 123532 DATE: 3/21/16
LWWD APPROVED FIRE FLOW 4,000 GPM AT 20 PSI RESIDUAL

CLV# 107VS03S
H#57782

Impulse

Civil Engineering & Planning

LET 16 of 19 SHEETS