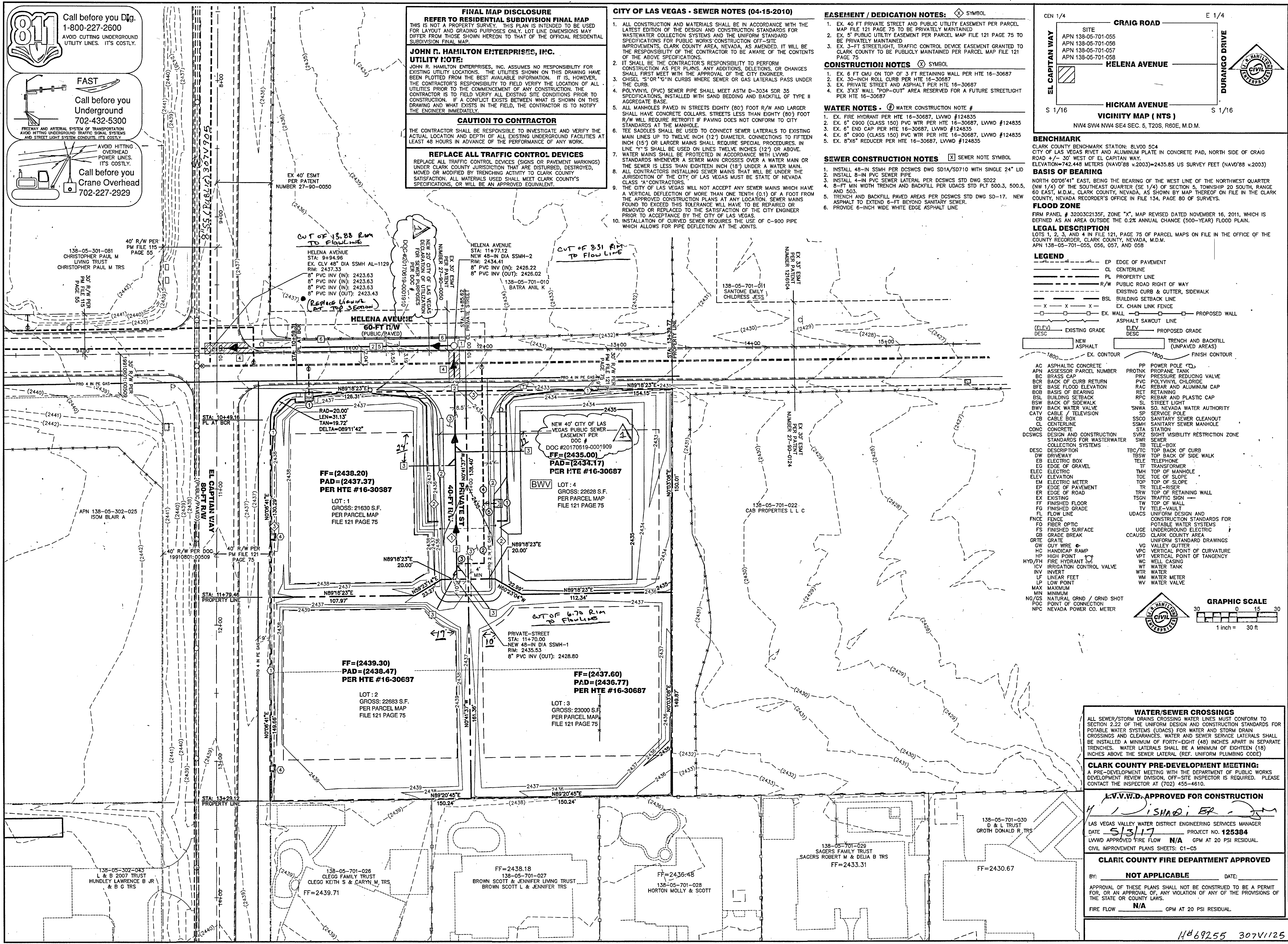




811 Call before you Dig.
1-800-227-2600
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

FAST
Call before you Undergo
702-432-5300
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

AVOID HITTING STREET LIGHT SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
Call before you Crane Overhead
702-227-2929

FINAL MAP DISCLOSURE
REFER TO RESIDENTIAL SUBDIVISION FINAL MAP
THIS IS NOT A PROPERTY SURVEY. THIS PLAN IS INTENDED TO BE USED FOR LAYOUT AND GRADING PURPOSES ONLY. LOT LINE DIMENSIONS MAY DIFFER FROM THOSE SHOWN HEREON TO THAT OF THE OFFICIAL RESIDENTIAL SUBDIVISION FINAL MAP.

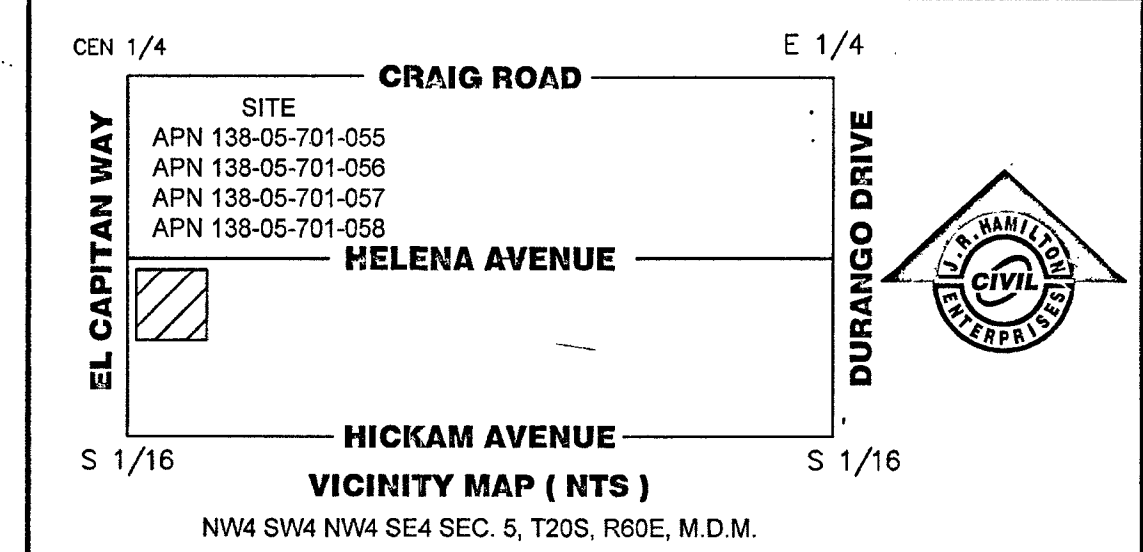
JOHN R. HAMILTON ENTERPRISES, INC.
UTILITY NOTE:
JOHN R. HAMILTON ENTERPRISES, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THIS DRAWING AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.

CAUTION TO CONTRACTOR
THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.

REPLACE ALL TRAFFIC CONTROL DEVICES
REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.

- CITY OF LAS VEGAS - SEWER NOTES (04-15-2010)**
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
 - CHISEL "S" OR "O" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
 - POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
 - ALL MANHOLES PAVED IN STREETS EIGHTY (80) FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80) FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
 - TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
 - WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD STANDARDS. WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN, ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
 - THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (1/10) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
 - INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

- EASEMENT / DEDICATION NOTES:**
- EX. 40 FT PRIVATE STREET AND PUBLIC UTILITY EASEMENT PER PARCEL MAP FILE 121 PAGE 75 TO BE PRIVATELY MAINTAINED.
 - EX. 5' PUBLIC UTILITY EASEMENT PER PARCEL MAP FILE 121 PAGE 75 TO BE PRIVATELY MAINTAINED.
 - EX. 3-FT STREETLIGHT, TRAFFIC CONTROL DEVICE EASEMENT GRANTED TO CLARK COUNTY TO BE PUBLICLY MAINTAINED PER PARCEL MAP FILE 121 PAGE 75.
- CONSTRUCTION NOTES**
- EX. 6 FT CMU ON TOP OF 3 FT RETAINING WALL PER HTE 16-30687
 - EX. 30-INCH ROLL CURB PER HTE 16-30687
 - EX. PRIVATE STREET AND ASPHALT PER HTE 16-30687
 - EX. 3'X3' WALL "POP-OUT" AREA RESERVED FOR A FUTURE STREETLIGHT PER HTE 16-30687
- WATER NOTES**
- EX. FIRE HYDRANT PER HTE 16-30687, LVWD #124835
 - EX. 6" C900 (CLASS 150) PVC WTR PER HTE 16-30687, LVWD #124835
 - EX. 6" END CAP PER HTE 16-30687, LVWD #124835
 - EX. 8" C900 (CLASS 150) PVC WTR PER HTE 16-30687, LVWD #124835
 - EX. 8"X6" REDUCER PER HTE 16-30687, LVWD #124835
- SEWER CONSTRUCTION NOTES**
- INSTALL 48-IN SSMH PER DCSWCS DWG SD1/SD710 WITH SINGLE 24" LD
 - INSTALL 8-IN PVC SEWER PIPE
 - INSTALL 4-IN PVC SEWER LATERAL PER DCSWCS STD DWG SD22
 - 8-FT MIN WIDTH TRENCH AND BACKFILL PER UDACS STD PLT 500.3, 500.5, AND 503.
 - TRENCH AND BACKFILL PAVED AREAS PER DCSWCS STD DWG SD-17, NEW ASPHALT TO EXTEND 6-FT BEYOND SANITARY SEWER.
 - PROVIDE 6-INCH WIDE WHITE EDGE ASPHALT LINE.



BENCHMARK
CLARK COUNTY BENCHMARK STATION: BLV00 5C4
CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN CONCRETE PAD, NORTH SIDE OF CRAIG ROAD +/- 30' WEST OF EL CAPITAN WAY.
ELEVATION=742.448 METERS (NAV'D'88 v.2003)=2435.85 US SURVEY FEET (NAV'D'88 v.2003)

BASIS OF BEARING
NORTH 00°08'41" EAST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREON ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN FILE 134, PAGE 80 OF SURVEYS.

FLOOD ZONE
FIRM PANEL # 32003C2135F, ZONE "X", MAP REVISED DATED NOVEMBER 16, 2011, WHICH IS DEFINED AS AN AREA OUTSIDE THE 0.2% ANNUAL CHANCE (500-YEAR) FLOOD PLAIN.

LEGAL DESCRIPTION
LOTS 1, 2, 3, AND 4 IN FILE 121, PAGE 75 OF PARCEL MAPS ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, M.D.M.
APN 138-05-701-055, 056, 057, AND 058

LEGEND

EP	EDGE OF PAVEMENT
CL	CENTERLINE
PL	PROPERTY LINE
R/W	PUBLIC ROAD RIGHT OF WAY
BSL	BUILDING SETBACK LINE
EX	EXISTING CURB & GUTTER, SIDEWALK
EX	CHAIN LINK FENCE
EX	WALL
ASPH	ASPHALT SAWCUT LINE
PRO	PROPOSED WALL
EX	EXISTING GRADE
PRO	PROPOSED GRADE
NEW	NEW ASPHALT
EX	EX. CONTOUR
FIN	FINISH CONTOUR

DCSWCS DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS

DESC DESCRIPTION

AC	ASPHALTIC CONCRETE	PP	POWER POLE
APN	ASSESSOR PARCEL NUMBER	PRV	PROPERLY TANK
BC	BRASS CAP	PRV	PRESSURE REDUCING VALVE
BCR	BACK OF CURB RETURN	PVC	POLYVINYL CHLORIDE
BFE	BASE FLOOD ELEVATION	RAC	REBAR AND ALUMINUM CAP
BOB	BASIS OF BEARING	RET	RETAINING
BSL	BUILDING SETBACK	RPC	REBAR AND PLASTIC CAP
BSW	BACK OF SIDEWALK	SL	STREET LIGHT
BWV	BACK WATER VALVE	SNWA	SO. NEVADA WATER AUTHORITY
CATV	CABLE / TELEVISION	SP	SERVICE POLE
CB	CABLE BOX	SSCO	SANITARY SEWER CLEANOUT
CL	CENTERLINE	SSMH	SANITARY SEWER MANHOLE
CONC	CONCRETE	STA	STATION
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	SVRZ	SIGHT VISIBILITY RESTRICTION ZONE
DESC	DESCRIPTION	TB	TELE-BOX
DW	DRIVEWAY	TBC/TC	TOP BACK OF CURB
EB	ELECTRIC BOX	TBW	TOP BACK OF SIDE WALK
EG	EDGE OF GRAVEL	TELE	TELEPHONE
ELEV	ELECTRIC	TF	TRANSFORMER
ELEV	ELEVATION	TH	TOP OF MANHOLE
EM	ELECTRIC METER	TOE	TOE OF SLOPE
EP	EDGE OF PAVEMENT	TOP	TOP OF SLOPE
ER	EDGE OF ROAD	TRW	TOP OF RETAINING WALL
EX	EXISTING	TSN	TRAFFIC SIGN
FT	FINISHED FLOOR	TV	TELE-VAULT
FG	FINISHED GRADE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS
FLOW	FLOW LINE	USE	UNDERGROUND ELECTRIC
FENCE	FENCE	CLARK	CLARK COUNTY AREA
FO	FIBER OPTIC	UNIFORM	UNIFORM STANDARD DRAWINGS
FR	FINISHED SURFACE	VARY	VARIETY BUTTER
GB	GRADE BREAK	VPC	VERTICAL POINT OF CURVATURE
GRTE	GRATE	VPT	VERTICAL POINT OF TANGENCY
GW	GUTTER	WC	WELL CASING
HC	HANDICAP RAMP	WTR	WATER
HP	HIGH POINT	WV	WATER VALVE
HYD	FIRE HYDRANT	WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE		
INV	INVERT		
LF	LINEAR FEET		
LP	LOW POINT		
MIN	MINIMUM		
MAX	MAXIMUM		
NO/GS	NATURAL GRND / GRND SHOT		
POC	POINT OF CONNECTION		
NPC	NEVADA POWER CO. METER		

GRAPHIC SCALE
1 inch = 30 ft

WATER/SEWER CROSSINGS
ALL SEWER/STORM DRAIN 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 DRAIN CROSSINGS AND CLEARANCES. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE SEWER LATERAL (REF. UNIFORM PLUMBING CODE)

CLARK COUNTY PRE-DEVELOPMENT MEETING:
A PRE-DEVELOPMENT MEETING WITH THE DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW DIVISION, OFF-SITE INSPECTOR IS REQUIRED. PLEASE CONTACT THE INSPECTOR AT (702) 455-4610.

L.V.W.D. APPROVED FOR CONSTRUCTION
Shadi ER
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/3/17 PROJECT NO. 125384
LVWD APPROVED FIRE FLOW N/A GPM AT 20 PSI RESIDUAL.
CIVIL IMPROVEMENT PLANS SHEETS: C1-C5

CLARK COUNTY FIRE DEPARTMENT APPROVED

NOT APPLICABLE DATE: _____

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 N/A GPM AT 20 PSI RESIDUAL.

UTILITY PLAN

HELENA AVE / EL CAPITAN WAY
SEWER EXTENSION PLANS
CLARK COUNTY, NEVADA 89129
138-05-701-055, 056, 057, AND 058

DR HORTON
1081 WHITNEY RANCH DRIVE • HENDERSON • NEVADA • 89014
PH: (702) 635-5600 CONTACT: MICHAEL CUDDY

JOHN R. HAMILTON ENTERPRISES, INC.
3846 PEBBLE CREEK AVENUE, LAS VEGAS, NEVADA 89147
PH: (702) 590-9555 WWW.JRHAMILTONENTERPRISES.COM

PROJECT
PROJECT NO. 125384
SHEET NO. 3 OF 5

DATE
DATE 5/3/17

REVISIONS
REVISION NO. 1 DATE 5/3/17 BY SHADI ER

CLARK COUNTY FIRE
CLARK COUNTY FIRE: N/A
CITY TRAFFIC STUDY: N/A
CITY DRILL: N/A
CITY SOLS REPORT: N/A
CITY SOLS: N/A
CITY CIVIL IMP PLANS: 17-9028
CITY HANDBOOK: 69255

CLARK COUNTY FIRE DEPARTMENT
CLARK COUNTY FIRE DEPARTMENT: N/A
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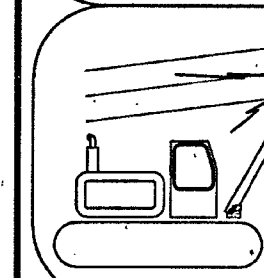
CLARK COUNTY FIRE DEPARTMENT
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AS BUILTS

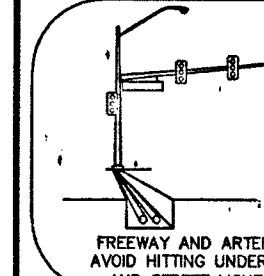


Call before you Dig.
1-800-227-2600

AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.



Call before you
Crane Overhead
702-227-2929



FAST
Call before you
Underground
702-432-5300

PREPARE AND AERIAL SYSTEM OF TRANSPORTATION
AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS
AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.

WATER/SEWER CROSSINGS
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SEWER CONSTRUCTION NOTES ☒ SEWER NOTE SYMBOL

1. INSTALL 48-IN SSMH PER DCSWS DWG SD1A/SD710 WITH SINGLE 24" LID
2. INSTALL 8-IN PVC SEWER PIPE
3. EX. 5" PUBLIC UTILITY EASEMENT PER PARCEL MAP FILE 121 PAGE 75 TO BE PRIVATELY MAINTAINED
4. 8'-FT MIN WIDTH TRENCH AND BACKFILL PER UDACS STD PLT 500.3, 500.5, AND 503.
5. TRENCH AND BACKFILL PAVED AREAS PER DCSWS STD DWG SD-17. NEW ASPHALT TO EXTEND 6'-FT BEYOND SANITARY SEWER.
6. PROVIDE 6-INCH WIDE WHITE EDGE ASPHALT LINE.

EASEMENT / DEDICATION NOTES: ☒ SYMBOL

1. EX. 40 FT PRIVATE STREET AND PUBLIC UTILITY EASEMENT PER PARCEL MAP FILE 121 PAGE 75 TO BE PRIVATELY MAINTAINED
2. EX. 5" PUBLIC UTILITY EASEMENT PER PARCEL MAP FILE 121 PAGE 75 TO BE PRIVATELY MAINTAINED
3. EX. 3'-FT STREETLIGHT, TRAFFIC CONTROL DEVICE EASEMENT GRANTED TO CLARK COUNTY TO BE PUBLICLY MAINTAINED PER PARCEL MAP FILE 121 PAGE 75

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1. EX. 6 FT CMU ON TOP OF 3 FT RETAINING WALL PER HTE 16-30687
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3. EX. PRIVATE STREET AND ASPHALT PER HTE 16-30687
4. EX. 3'X3' WALL "TOP-OUT" AREA RESERVED FOR A FUTURE STREETLIGHT PER HTE 16-30687

WATER NOTES ☒ WATER CONSTRUCTION NOTE #

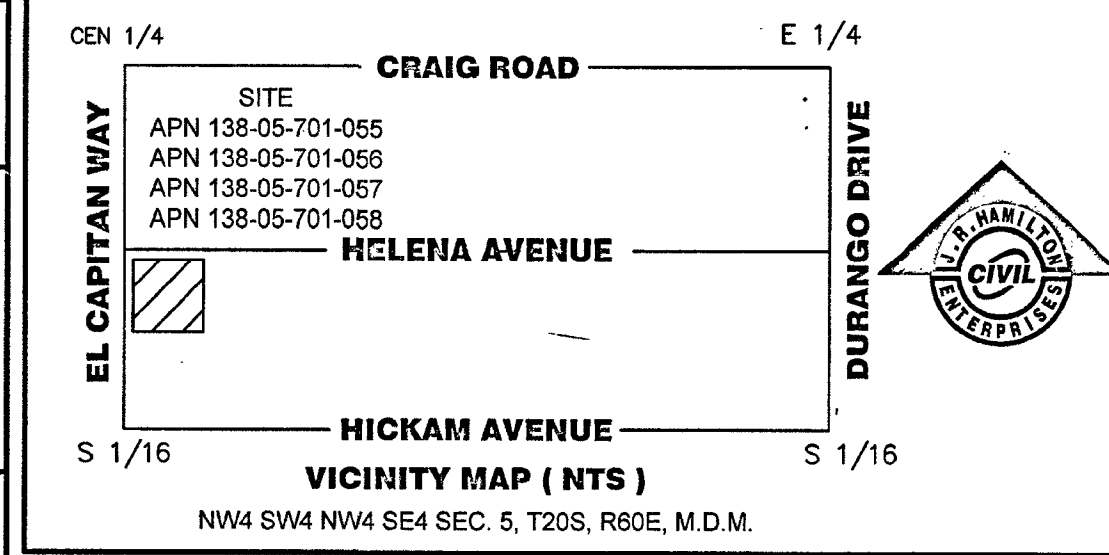
1. EX. FIRE HYDRANT PER HTE 16-30687, LVWD #124835
2. EX. 6" C900 (CLASS 150) PVC WTR PER HTE 16-30687, LVWD #124835
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FINAL MAP DISCLOSURE
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JOHN R. HAMILTON ENTERPRISES, INC.
UTILITY NOTE:
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CAUTION TO CONTRACTOR
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REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAYMENT MARKINGS) UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.



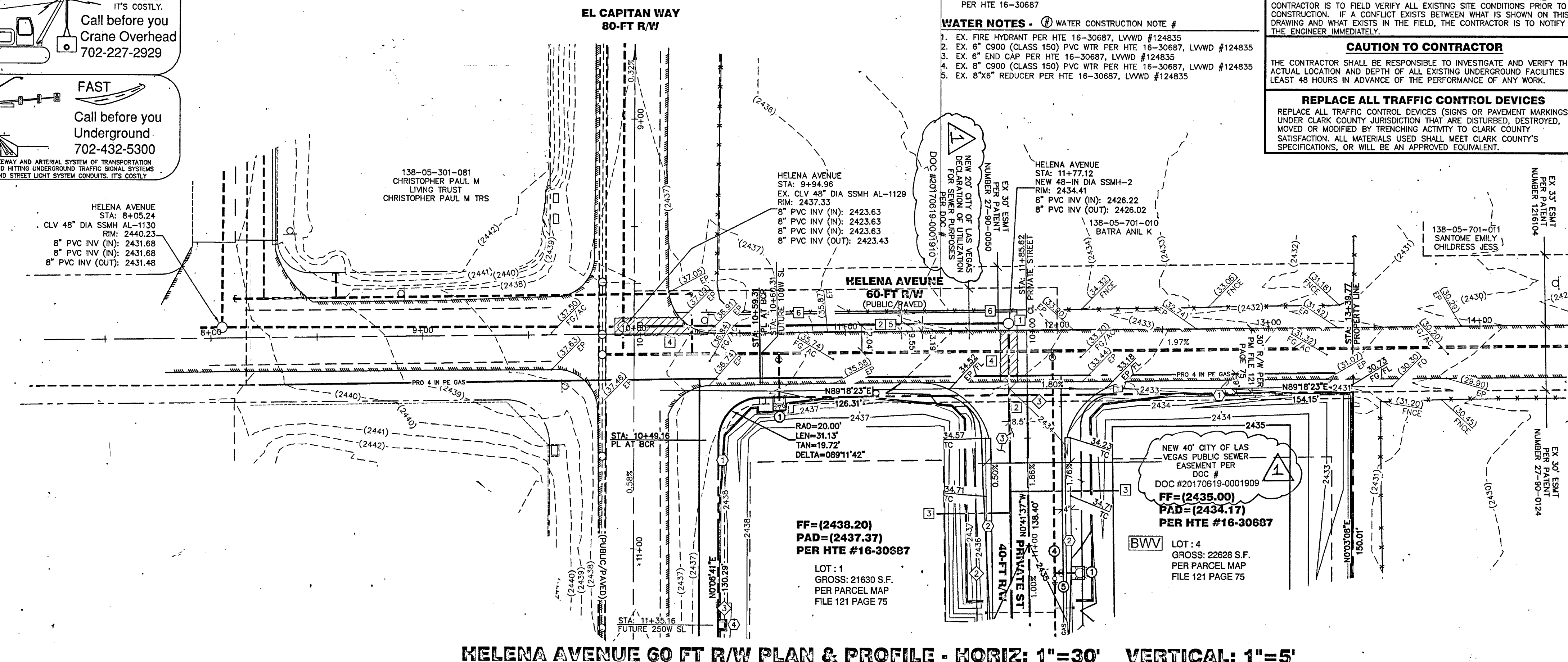
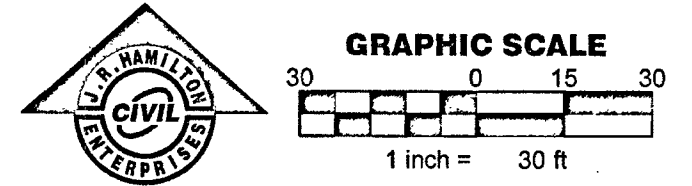
BENCHMARK
CLARK COUNTY BENCHMARK STATION: BLV00 SC4
CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN CONCRETE PAD, NORTH SIDE OF CRAIG ROAD +/- 30' WEST OF EL CAPITAN WAY.
ELEVATION=742.448 METERS (NAVD'83 v.2003)=2435.85 US SURVEY FEET (NAVD'83 v.2003)

BASIS OF BEARING
NORTH 00°04'41" EAST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, N.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREON ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN FILE 134, PAGE 80 OF SURVEYS.

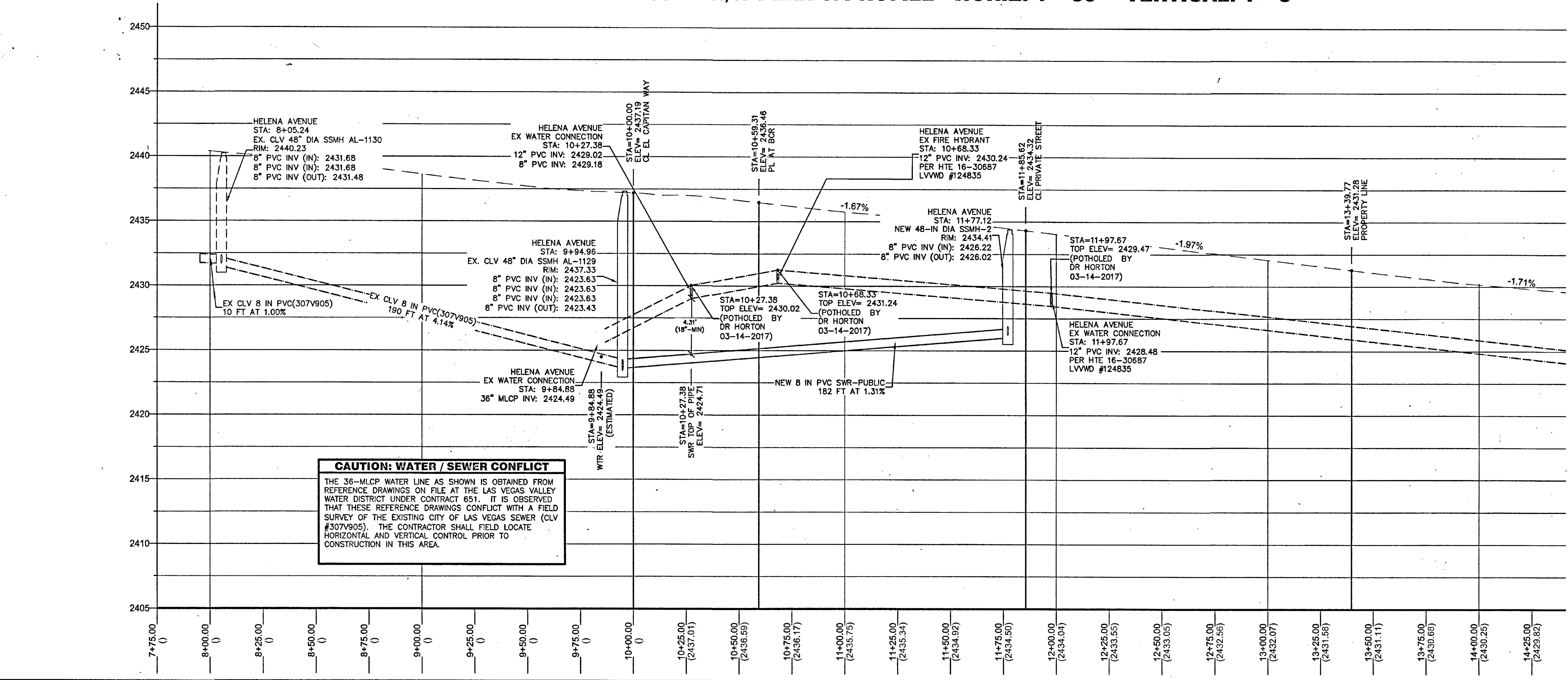
FLOOD ZONE
FIRM PANEL # 32003C2135F, ZONE "X", MAP REVISED DATED NOVEMBER 16, 2011, WHICH IS DEFINED AS AN AREA OUTSIDE THE 0.2% ANNUAL CHANCE (500-YEAR) FLOOD PLAIN.

LEGAL DESCRIPTION
LOTS 1, 2, 3 AND 4 IN FILE 121, PAGE 75 OF PARCEL MAPS ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, N.D.M.
APN 138-05-701-055, 056, 057, AND 058

LEGEND	
EP	EDGE OF PAVEMENT
CL	CENTERLINE
PL	PROPERTY LINE
R/W	PUBLIC ROAD RIGHT OF WAY
BSL	EXISTING CURB & GUTTER, SIDEWALK
BSL	BUILDING SETBACK LINE
EX	EX. CHAIN LINK FENCE
EX	EX. WALL
AS	ASPHALT SAWCUT LINE
ELEV	EXISTING GRADE
DESC	DESC
NEW	NEW ASPHALT
EX	EX. CONTOUR
PP	POWER POLE
PROTKV	PROPANE TANK
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
RAC	REBAR AND ALUMINUM CAP
RET	RETAINING
RPC	REBAR AND PLASTIC CAP
SL	STREET LIGHT
SP	SERVICE POLE
SNWA	SO. NEVADA WATER AUTHORITY
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STA	STATION
SVRZ	SIGHT VISIBILITY RESTRICTION ZONE
SW	SEWER
TE	TELEPHONE
TBC/TC	TOP BACK OF CURB
TBSW	TOP BACK OF SIDE WALK
TELE	TELEPHONE
TF	TRANSFORMER
TMH	TOP OF MANHOLE
TOE	TOE OF SLOPE
TR	TOP OF SLOPE
TRW	TOP OF RETAINING WALL
TSGN	TRAFFIC SIGN
TV	TELE-VAULT
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS
UOE	UNDERGROUND ELECTRIC
CCAUSD	CLARK COUNTY AREA
CAUSD	CLARK COUNTY AREA
GRTE	GRATE
GW	GUY WIRE
HC	HANDICAP RAMP
HP	HIGH POINT
HP	FIRE HYDRANT
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
NG/GS	NATURAL GRND / GRND SHOT
PCC	POINT OF CONNECTION
NPC	NEVADA POWER CO. METER



HELENA AVENUE 60 FT R/W PLAN & PROFILE - HORIZ: 1"=30' VERTICAL: 1"=5'



CAUTION: WATER / SEWER CONFLICT
THE 36"-MLCP WATER LINE AS SHOWN IS OBTAINED FROM REFERENCE DRAWINGS ON FILE AT THE LAS VEGAS VALLEY WATER DISTRICT UNDER CONTRACT 651. IT IS OBSERVED THAT THESE REFERENCE DRAWINGS CONFLICT WITH A FIELD SURVEY OF THE EXISTING CITY OF LAS VEGAS SEWER (CLV #307V905). THE CONTRACTOR SHALL FIELD LOCATE HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION IN THIS AREA.

CLARK COUNTY DEPT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING BY
WAM 9/1/17
3/23/17

ACCEPTANCE OF THESE PLANS FOR FILING 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 AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

L.V.V.W.D. APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 5/3/17 PROJECT NO. 125384
LVWD APPROVED FIRE FLOW N/A GPM AT 20 PSI RESIDUAL
CIVIL IMPROVEMENT PLANS SHEETS: C1-C5

DR HORTON
1081 WHITNEY RANCH DRIVE • HENDERSON • NEVADA • 89014
PH (702) 635-9900 CONTACT: MICHAEL CUDDY

JOHN R. HAMILTON ENTERPRISES, INC.
3945 PEBBLE CREEK AVENUE, LAS VEGAS, NEVADA 89147
PH (702) 550-3959 WWW.JRHAMILTONENTERPRISES.COM

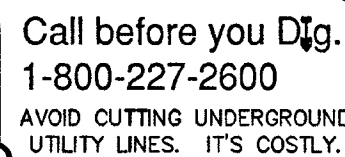
HELENA AVENUE
PLAN & PROFILE

HELENA AVE / EL CAPITAN WAY
SEWER EXTENSION PLANS
CLARK COUNTY, NEVADA 89129
138-05-701-055, 056, 057, AND 058

PROJECT NO. 16-200-002
HORIZ: 30
VERT: 5

CLARK COUNTY FIRE N/A
CITY TRAFFIC STDY N/A
CITY DRAINAGE STDY N/A
CORVCD N/A
CITY SOILS REPORT N/A
CCWRD N/A
LVWD 125384
CITY CIVIL MP PLANS 17-9028
CLV HANSEN 69255

PAGE: 4 OF 5 SHEETS

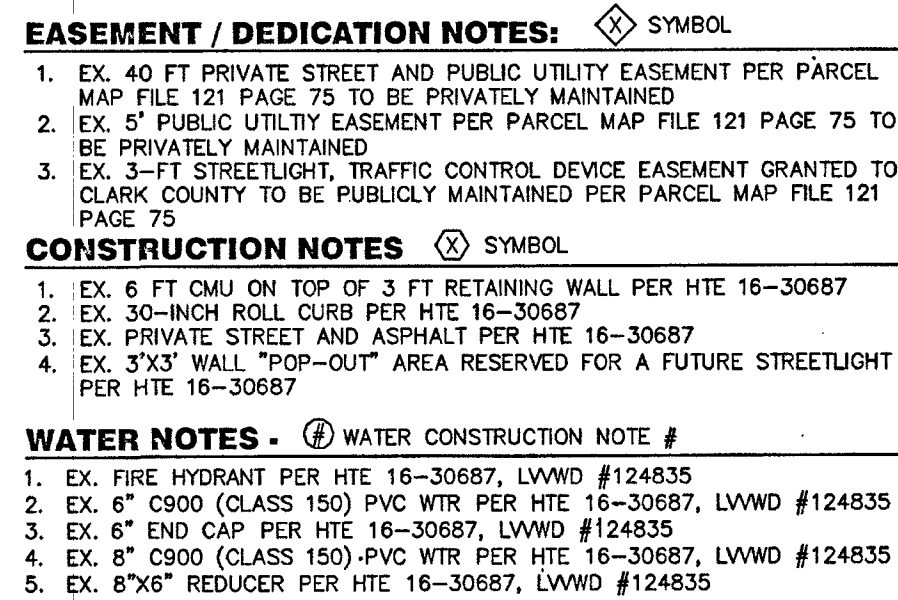


A diagram showing a crane lifting a rectangular load. Several horizontal lines represent overhead power lines. Arrows point from the text 'AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.' to the power lines. Below the crane, the text 'Call before you Crane Overhead' and the phone number '702-227-2929' are displayed.

AVOID HITTING
OVERHEAD
POWER LINES.
IT'S COSTLY.

Call before you
Crane Overhead

702-227-2929



SEWER CONSTRUCTION NOTES **X** SEWER NOTE SYMBOL

1. INSTALL 48-IN SSMH PER DCSCWS DWG SD1A/SD710 WITH SINGLE 24" LID
2. INSTALL 8-IN PVC SEWER PIPE
3. INSTALL 4-IN PVC SEWER LATERAL PER DCSCWS STD DWG SD22
4. 8-FT MIN WIDTH TRENCH AND BACKFILL PER UDACS STD PLT 500.3, 500.5 AND 503.
5. TRENCH AND BACKFILL PAVED AREAS PER DCSCWS STD DWG SD-17. NEW ASPHALT TO EXTEND 6-FT BEYOND SANITARY SEWER.
6. PROVIDE 6-INCH WIDE WHITE EDGE ASPHALT LINE

FINAL MAP DISCLOSURE
REFER TO RESIDENTIAL SUBDIVISION FINAL MAP
 THIS IS NOT A PROPERTY SURVEY. THIS PLAN IS INTENDED TO BE USED
 FOR LAYOUT AND GRADING PURPOSES ONLY. LOT LINE DIMENSIONS MAY
 DIFFER FROM THOSE SHOWN HEREON TO THAT OF THE OFFICIAL RESIDENTIAL
 SUBDIVISION FINAL MAP.

JOHN R. HAMILTON ENTERPRISES, INC.
UTILITY NOTE:
JOHN R. HAMILTON ENTERPRISES, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN FIELD VERIFIED TO THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THIS DRAWING AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.

CAUTION TO CONTRACTOR

THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.

REPLACE ALL TRAFFIC CONTROL DEVICES
 REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS)
 UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED,
 MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY
 SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S
 SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.

WATER/SEWER CROSSINGS
ALL SEWER/STORM DRAINS 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 DRAIN CROSSINGS AND CLEARANCES. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE SEWER LATERAL (REF. UNIFORM PLUMBING CODE)

CLARK COUNTY PRE-DEVELOPMENT MEETING:
A PRE-DEVELOPMENT MEETING WITH THE DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW DIVISION, OFF-SITE INSPECTOR IS REQUIRED. PLEASE
CONTACT THE INSPECTOR AT (702) 455-4610.

VICINITY MAP (NTS)

APN 138-05-701-055
 APN 138-05-701-056
 APN 138-05-701-057
 APN 138-05-701-058

CRAIG ROAD

HELENA AVENUE

HICKAM AVENUE

EL CAPITAN WAY

DURANGO DRIVE

U.S. NAVAL FACILITY
CHV
ENTERPRISES

U.S. NAVAL FACILITY
CHV
ENTERPRISES

BENCHMARK
CLARK COUNTY BENCHMARK STATION: 8LV00 5C4
CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN CONCRETE PAD, NORTH SIDE OF CRAIG
ROAD +/- 30' WEST OF EL CAPITAN WAY.
ELEVATION=742.448 METERS (NAVD'88 v2003)=2435.85 U.S. SURVEY FEET (NAVD'88 v2003)

BASIS OF BEARING

NORTH 00°06'41" EAST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN FILE 134, PAGE 80 OF SURVEYS.

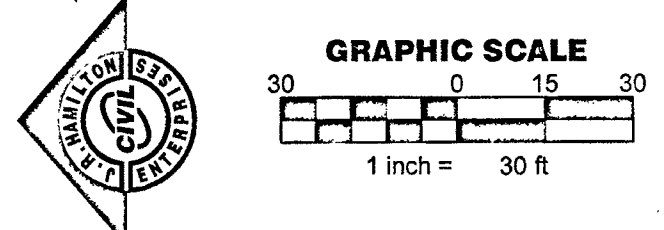
FLOOD ZONE
FIRM PANEL # 32003C2135F, ZONE "X", MAP REVISED DATED NOVEMBER 16, 2011, WHICH IS
DEFINED AS AN AREA OUTSIDE THE 0.2% ANNUAL CHANCE (500-YEAR) FLOOD PLAIN.

LEGAL DESCRIPTION
 LOTS 1, 2, 3, AND 4 IN FILE 121, PAGE 75 OF PARCEL MAPS ON FILE IN THE OFFICE OF THE
 COUNTY RECORDER, CLARK COUNTY, NEVADA, M.D.M.
 APN 138-05-701-055, 056, 057, AND 058

LEGEND

	EP	EDGE OF PAVEMENT
	CL	CENTERLINE
	PL	PROPERTY LINE
	R/W	PUBLIC ROAD RIGHT OF WAY
		EXISTING CURB & GUTTER, SIDEWALK
	BSL	BUILDING SETBACK LINE
		EX. CHAIN LINK FENCE
	EX. WALL	EXISTING WALL
		PROPOSED WALL
		ASPHALT SAWCUT LINE
	(ELEV)	EXISTING GRADE
	ELEV	PROPOSED GRADE

NEW ASPHALT		TRENCH AND BACKFILL (UNPAVED AREAS)	
1600' EX. CONTOUR		1800' FINISH CONTOUR	
AC	ASPHALTIC CONCRETE	PP	POWER POLE
APN	ASSESSOR PARCEL NUMBER	PPRVK	PROPANE TANK
BC	BRASS CAP	PPR	PRESSURE REDUCING VALVE
BCK	BACK OF CURB RETURN	PC	POLYVINYL CHLORIDE
BFE	BASE FLOOD ELEVATION	RCR	REBAR AND ALUMINUM CAP
BFB	BASIS OF BEARING	RET	RETAINING
BUL	BUILDING SETBACK	REGR	REBAR AND PLASTIC CAP
BWS	BACK OF SIDEWALK	SL	STREET LIGHT
CA	CABLE WATER VALVE	SNWA	NO. NEVADA WATER AUTHORITY
CL	CABLE / TELEVISION	SSCO	SANITARY SEWER CLEANOUT
CB	CABLE BOX	SSWH	SANITARY SEWER MANHOLE
CL	CENTERLINE	STN	STATION
CONC	CONCRETE	SVR	SIGHT VISIBILITY RESTRICTION ZONE
CSWCS	DESIGN AND CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS	SWZ	SEWER
DESC	DESCRIPTION	TB	TELE-BOX
DR	DRIVEWAY	TBC/TC	TOP BACK OF CURB
EB	ELECTRIC BOX	TBSW	TOP BACK OF SIDE WALK
EG	EDGE OF GRAVEL	TE	TELEPHONE
ELEC	ELECTRIC	TF	TRANSFORMER
ELEV	ELEVATION	TMH	TOP OF MANHOLE
EM	ELECTRIC METER	TS	TOP OF SLOPE
EP	EDGE OF PAVEMENT	TOP	TOP OF SLOPE
ER	EDGE OF ROAD	TR	TELE-RESEP
EX	EXISTING	TRW	TOP OF RETAINING WALL
FF	FINISHED FLOOR	TSGN	TRAFFIC SIGN
FG	FINISHED GRADE	TV	TELE-VAULT
FL	FLOW LINE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS
FNC	FENCE	UG	UNDERGROUND
FO	FIBER OPTIC	UC/ASU	CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS
FS	FINISHED SURFACE	VG	VERTICAL CURVATURE
GR	GRADE	VPT	VERTICAL POINT OF TANGENCY
GRT	GRATE	VC	VERTICAL CURVATURE
GW	GW	VV	VALLEY OUTLET
H	HANDICAP RAMP	W	WATER TANK
HP	HIGH POINT	WPC	VERTICAL POINT OF TANGENCY
HYD	FIRE HYDRANT	WC	WELL CASING
ICV	IRRIGATION CONTROL VALVE	WT	WATER TANK
IN	INVERT	WTR	WATER
LF	LINEAR FEET	WW	WATER WARE
LP	LOW POINT		
MAX	MAXIMUM		
MIN	MINIMUM		
NG/OS	NATURAL GRND / GRND SHOT		
POC	POINT OF CONNECTION		
PPC	POWER POINT		



CLARK COUNTY DEPT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING BY

WAM 5/23/17

ACCEPTANCE OF THESE PLANS FOR FILING 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 AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CLARK COUNTY.

L.V.V.W.D. APPROVED FOR CONSTRUCTION

15402, ER, 5

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 5/3/11 PROJECT NO. **125384**
LVWD APPROVED FIRE FLOW **N/A** GPM AT 20 PSI RESIDUAL.
CIVIL IMPROVEMENT PLANS SHEETS: C1-C5

15# 1005- 3071/10

H[#] 69255 307V1125

[illegible]

DR HORTON
1001 081 WHITNEY RANCH DRIVE • HENDERSON • NEVADA • 89014
TEL: (702) 635-3600 CONTACT: MICHAEL CUDDY

JOHN R. HAMILTON ENTERPRISES, INC.
4946 PEBBLE CREEK AVENUE, LAS VEGAS, NEVADA 89147
TEL: (702) 580-9558 WWW.JRHAMILTONENTERPRISES.COM

PRIVATE STREET
PLAN & PROFILE - NORTH
HELENA AVE / EL CAPITAN WAY
SEWER EXTENSION PLANS
CLARK COUNTY, NEVADA 89129
138-05-701-055, 056, 057, AND 058

SHEET

	HORIZ: 30 VERT: 5
--	----------------------

0-002

PROJECT N
6-200

JOHN R.
HAMILTON

Exp: 06/30/2017
CIVIL

REF ID: A66017
No. 015732
4/27/11

CLARK CNTY FIRE:	N/A
CNTY TRAFFIC STDY:	N/A
CNTY DRAINAGE STDY:	N/A

CCRCD:	N/A
CNTY SOILS REPORT:	N/A
CCWRD:	N/A

LVWD:	125384
CNTY CIVIL IMP PLANS:	17-9028
PLAN NUMBER:	00055

PAGE: **C5**

AS BUILDS