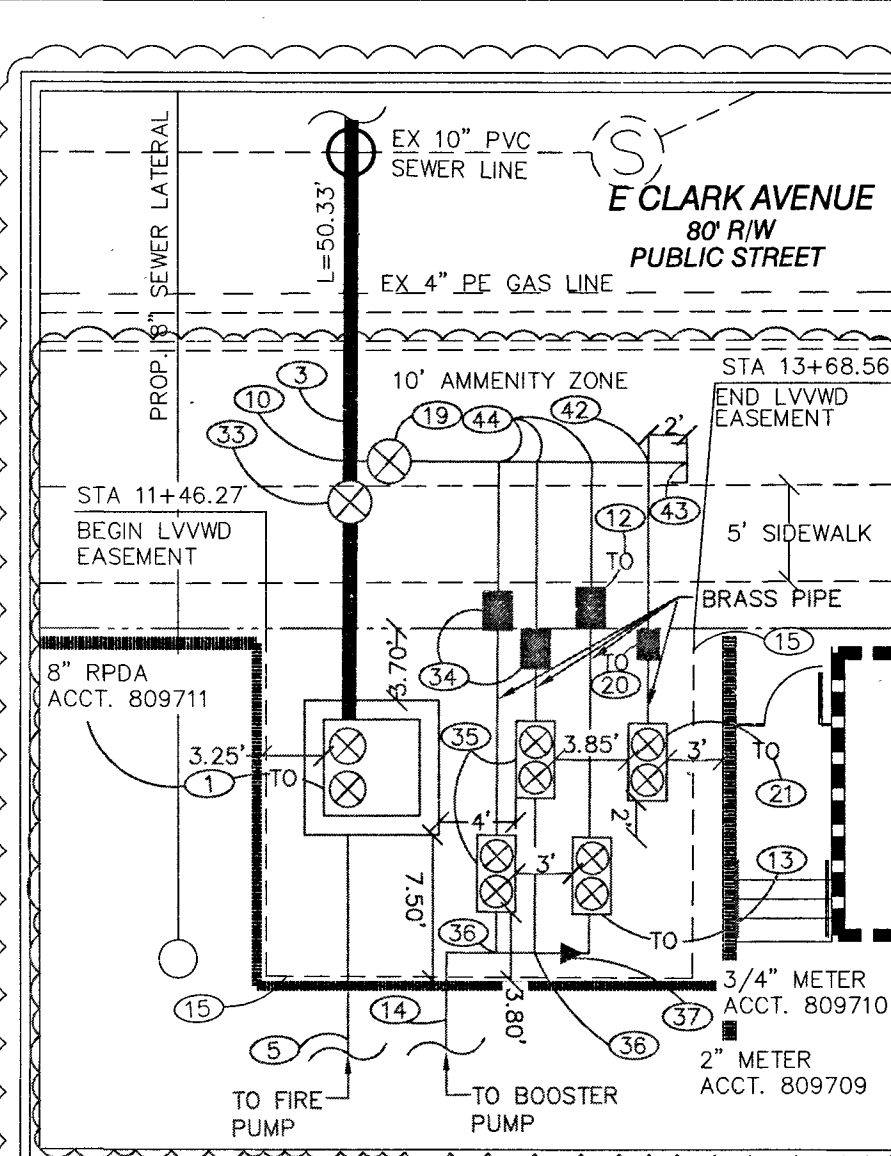
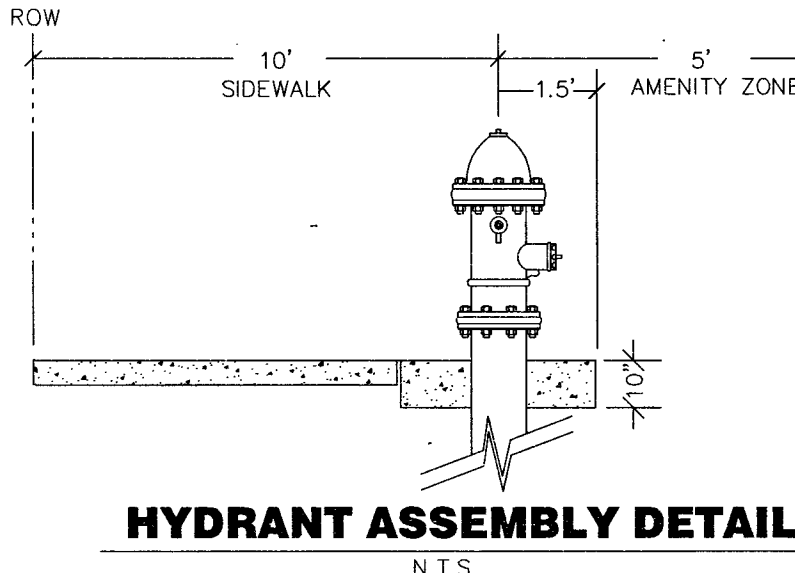




DETAIL "A"
SCALE 1" = 10'



HYDRANT ASSEMBLY DETAIL

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS 1 / CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19.

ALL EXISTING SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM. SEE UDACS STD PLATES 16, 17, AND 19, FOR BEDDING AND BACKFILL REQUIREMENTS.

SINGLE WATER SOURCED PROJECT INVOLVING A METER, VAULT, OR WATER SERVICE UPGRADE WILL REQUIRE THE WATER TO BE SHUT OFF FOR A SUFFICIENT LENGTH OF TIME TO ACCOMPLISH THE WORK PER THE PLANS. THE ENGINEER MAY BE REQUIRED TO PROVIDE FOR A DISTRICT APPROVED TEMPORARY BY-PASS TO SUPPLY THE PROJECT WHILE THE WORK IS BEING COMPLETED.

ALL PIPELINES TO BE ABANDONED SHALL BE CUT AND SECURELY CAPPED (ALL ENDS). THE CUT AND CAP LOCATION ON THE MAIN TO BE ABANDONED SHALL BE A MAXIMUM OF ONE (1) FOOT FROM THE VALVE OR POINT OF TERMINATION. ANY ABANDONED PIPELINE LARGER THAN TWELVE (12) INCHES MUST BE FILLED WITH CLSM 1 MATERIAL.

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 EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH A MINIMUM OF TWO INCHES OF SAND OR TYPE II AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE PLANS. IF THE EXISTING PIPE IS NOT SHOWN TO BE 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 CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PREVIOUS OF UDACS PLATE 31.

ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM. SEE UDACS STD PLATES 16, 17, 18, AND 19, FOR BEDDING AND BACKFILL REQUIREMENTS.

INSTALL WATERLINE IN STEEL CASING PER UDACS STD PLATES 22 AND 23. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.

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

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS STANDARD PLATE 15

"UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

CUT & CAP:

THE WATER LINE 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 AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDAC'S PLATE 31.

LOCHSA ENG. 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.

CONTRACTOR 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, CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.

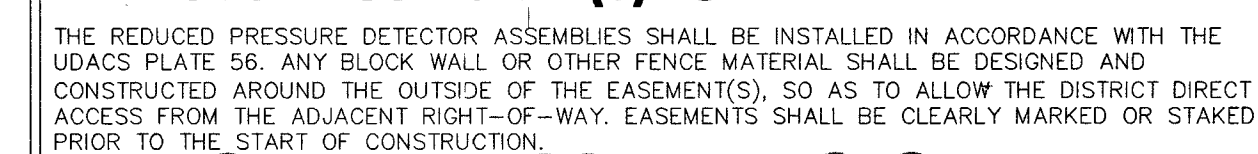
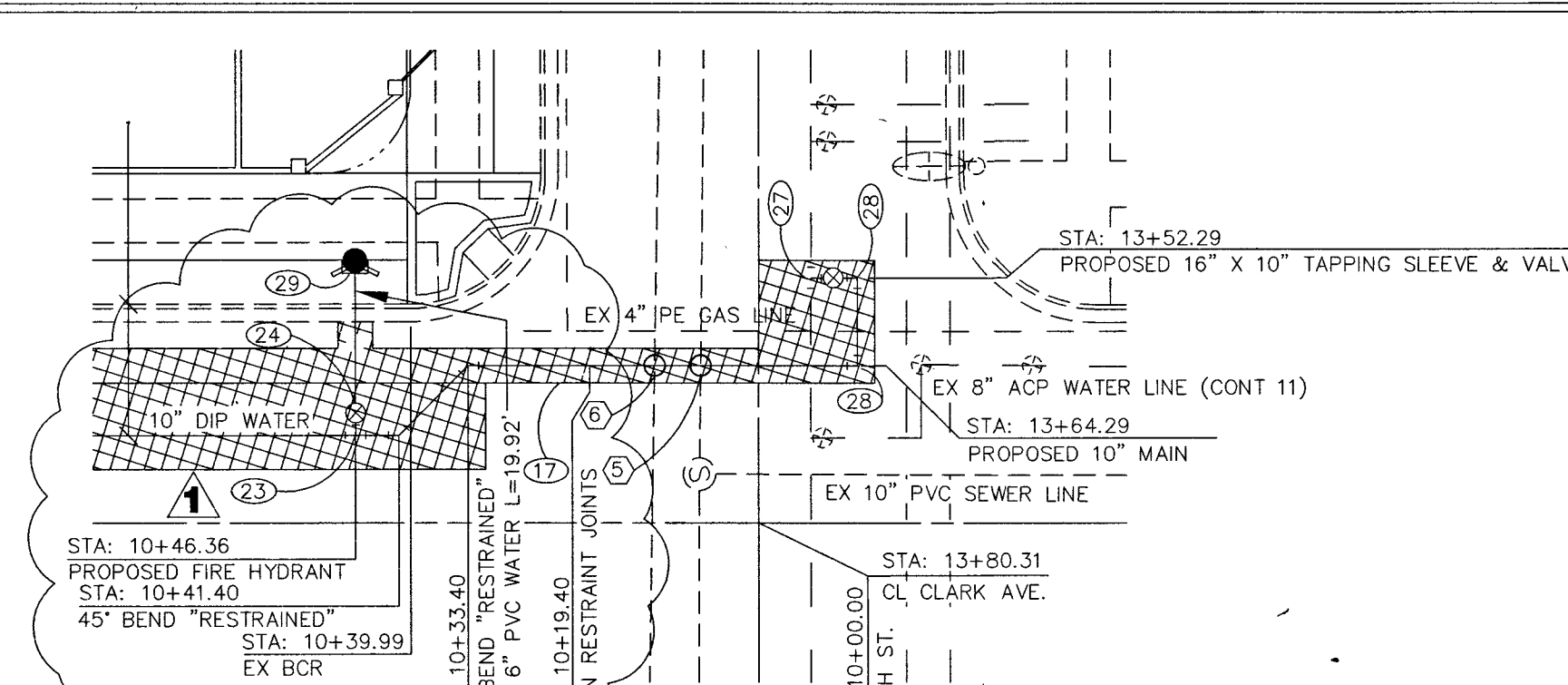
ALL EXISTING ASBESTOS CEMENT (ACP) WATERLINES CROSSINGS A TRENCH EXCAVATION GREATER THEN SIX (6) FEET WIDE SHALL BE REPLACED WITH DUCTILE IRON PIPE (DIP).

ALL WATERLINES CROSSING TRENCH WIDTHS GREATER THAN SIX (6) SHALL HAVE A PIPE SUPPORT DETAIL SUBMITTED TO THE DISTRICT FOR APPROVAL PRIOR TO EXCAVATION



N.T.S

	PROPERTY LINE
RIGHT OF WAY	RIGHT OF WAY
SENTINEL	SENTINEL
ADJUSTED SCALE	ADJUSTED SCALE
EXISTING CURB	EXISTING CURB
PROPOSED CURB	PROPOSED CURB
EXISTING EDGE OF PAVEMENT	EXISTING EDGE OF PAVEMENT
PROPOSED EDGE OF PAVEMENT	PROPOSED EDGE OF PAVEMENT
EXISTING BLOCK WALL	EXISTING BLOCK WALL
PROPOSED BLOCK WALL	PROPOSED BLOCK WALL
200'	200'
CONTOUR LINE	CONTOUR LINE
OHP	OHP
EXISTING OVER HEAD POWER	EXISTING OVER HEAD POWER
ASPHALTIC CONCRETE	ASPHALTIC CONCRETE
BACK OF CURB	BACK OF CURB
BEGINNING OF CURB RADIUS	BEGINNING OF CURB RADIUS
BACK OF WALK	BACK OF WALK
CURB & GUTTER	CURB & GUTTER
CENTERLINE	CENTERLINE
CONCRETE	CONCRETE
ELECTRICAL	ELECTRICAL
END OF CURB RADIUS	END OF CURB RADIUS
EDGE OF PAVEMENT	EDGE OF PAVEMENT
EXISTING	EXISTING
FINISH GRADE	FINISH GRADE
FLOW LINE	FLOW LINE
GRADE BREAK	GRADE BREAK
HIGH POINT	HIGH POINT
INVERT	INVERT
LINEAR FEET	LINEAR FEET
LOW POINT	LOW POINT
NATURAL GROUND	NATURAL GROUND
PROPERTY LINE	PROPERTY LINE
POLYVINYL CHLORIDE	POLYVINYL CHLORIDE
POLYETHYLENE	POLYETHYLENE
STREET LIGHT	STREET LIGHT
SEWER MANHOLE	SEWER MANHOLE
SANITARY SEWER CLEANOUT	SANITARY SEWER CLEANOUT
STATION	STATION
SIDEWALK	SIDEWALK
TOP OF CURB	TOP OF CURB
TRASH ENCLOSURE	TRASH ENCLOSURE
TOP OF FOOTING	TOP OF FOOTING
TOP OF SLOPE	TOP OF SLOPE
TOE OF SLOPE	TOE OF SLOPE
TELEPHONE VAULT	TELEPHONE VAULT
TOP OF RETAINING WALL	TOP OF RETAINING WALL
TOP OF WALL	TOP OF WALL
EXISTING GRADE	EXISTING GRADE
PROPOSED GRADE	PROPOSED GRADE
EXISTING 250W STREET LIGHT	EXISTING 250W STREET LIGHT



APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS
 PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SOURCE REQUIRING 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 EASEMENT(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.

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

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN
IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

NORTH 27°54'3" EAST, BEING THE CENTERLINE OF SIXTH STREET
AS SHOWN UPON RECORD OF SURVEY FILE 134 PAGE 52,
OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

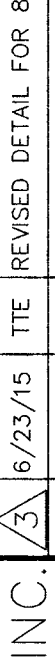
CITY OF LAS VEGAS BENCHMARK 8LV01 34SW6
RIVET & PLATE IN TOP OF CURB, NORTHEAST CORNER OF
LAS VEGAS BOULEVARD AND GARCES AVENUE.

612.858 METER
2010.68 FEET
(NAVD 88)

APPROVED FOR CONSTRUCTION 1ST APP'D 5/3/12

4, DISHARI FOR, JSM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 116894 DATE: 12/8/15

CLV PROJECT # 42943

		SHEET No. C5 SHEET 5 OF 11 CLV DWG No.	
CHECKED BY: _____ DESIGNED BY: _____ DRAWN BY: _____ SCALE: 1" = 20' DATE: 10/13/2014 PROJECT No.: 141098		TITLE FEDERAL JUSTICE TOWER SE CORNER CLARK AVE AND LAS VEGAS BLVD CITY OF LAS VEGAS, NV	
LVMWD NOTES/DETAILS			
LAS VEGAS ICE, LLC C/O SDA, INC. 5655 S. YOSEMITE ST. SUITE 301 GREENWOOD VILLAGE, CO 80111 PHONE: (303) 220-0540 FAX: (303) 220-0556		344 South Jones Blvd Las Vegas, NV 89118 Phone: (702) 555-5117 Fax: (702) 555-5117 www.lochsa.com	
TITE 6/23/15 & DETAIL A. ADD LVMWD STANDARD NOTE <i>See notes</i> & DETAIL A. ADD LVMWD STANDARD NOTE <i>See notes</i>		TITE 10/7/15 & DETAIL A DUE TO ADDING 2-2" METERS <i>See notes</i>	
REVISED DETAIL FOR 8" DOMESTIC WATER CROSSING		REVISED DETAIL FOR 8" DOMESTIC WATER CROSSING	