

LEGEND	
	RIGHT-OF-WAY
	CENTERLINE
	WATER LINE
	SANITARY SEWER LINE
	GAS LINE
	STORM DRAIN
	POWER LINE/POWER POLE
	TELEPHONE LINE
	FIRE HYDRANT
	WATER VALVE
	METERS/PULL BOXES/REDUCER
	MANHOLE
	CLEANOUT
	CONTOUR
	A.C. PAVING
	TYPE 'L' CURB & GUTTER
	TYPE 'A' CURB
	CONCRETE
	RETAINING WALL
	CHAIN LINK FENCE
	GRADE BREAK
	WIRE FENCE
	SAWCUT LINE
	FINISH FLOOR
	CLEANOUT INVERT ELEV.
	FLOW LINE
	FINISH GRADE
	TOP OF AC P.M.T.
	TOP OF FALL SURFACE
	TOP OF CURB
	TOP OF WALL
	GATE
	SIGN
	100 W.H.P.S.
	150 W.H.P.S.
	200 W.H.P.S.
	250 W.H.P.S.

EARTHWORK QUANTITIES

1. ESTIMATED EARTHWORK QUANTITIES TO ROUGH GRADE EXCLUDING SHRINKAGE AND SUBSIDENCE ARE AS FOLLOWS:
 18,265 C.Y. FILL
 10,930 C.Y. CUT
 7,335 C.Y. IMPORT

2. THE CONTRACTOR SHALL VERIFY ALL EARTHWORK CALCULATIONS AND BASE ALL BIDS ON HIS OWN CALCULATIONS.

GRADING NOTES

1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.

2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BASKET/COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

3. CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.

4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED.

5. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION.

6. REFER TO LANDSCAPING DRAWINGS FOR PLANTING, IRRIGATION, REMOVAL OF TREES, ETC.

LEGAL DESCRIPTION

BEING A PORTION OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTH HALF (NORTH 1/2) OF SECTION 31, TOWNSHIP 20 SOUTH, RANGE 62 EAST, M.D.M., CLARK COUNTY NEVADA.

AP.N. 140-31-601-001

BASIS OF BEARING

N 00° 40' 10" E BEING THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 31, TOWNSHIP 20 SOUTH, RANGE 62 EAST, M.D.M., SAID LINE ALSO BEING THE CENTERLINE OF LAMB BOULEVARD AS SHOWN ON ALTA/ACSM SURVEY PRODUCED BY CARTER-BURGESS, SIGNED AND STAMPED BY MARK A. BYRD ON 2-11-99.

BENCHMARK

BM #21, 21.02 32W/186, BEING A RIVET AND PLATE IN TOP OF CURB EAST CURB LINE 1386' NORTH OF STEWART AVE., ACROSS FROM CARPENTERS HALL LOCAL 1780. ELEV: 1771.61' (539.99 m) NAVD83

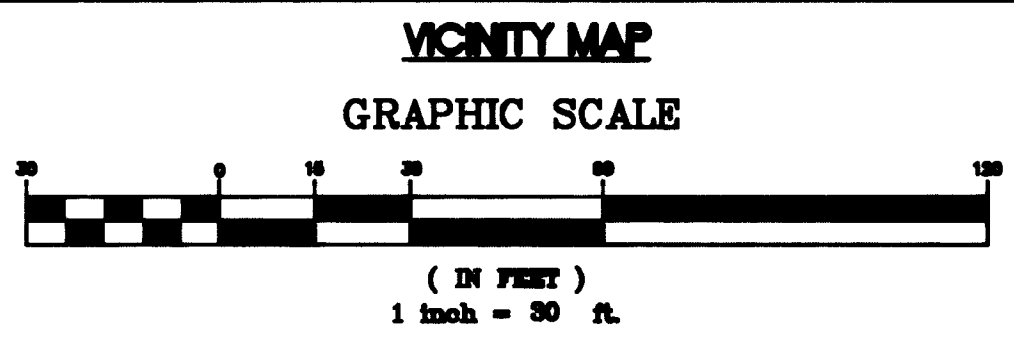
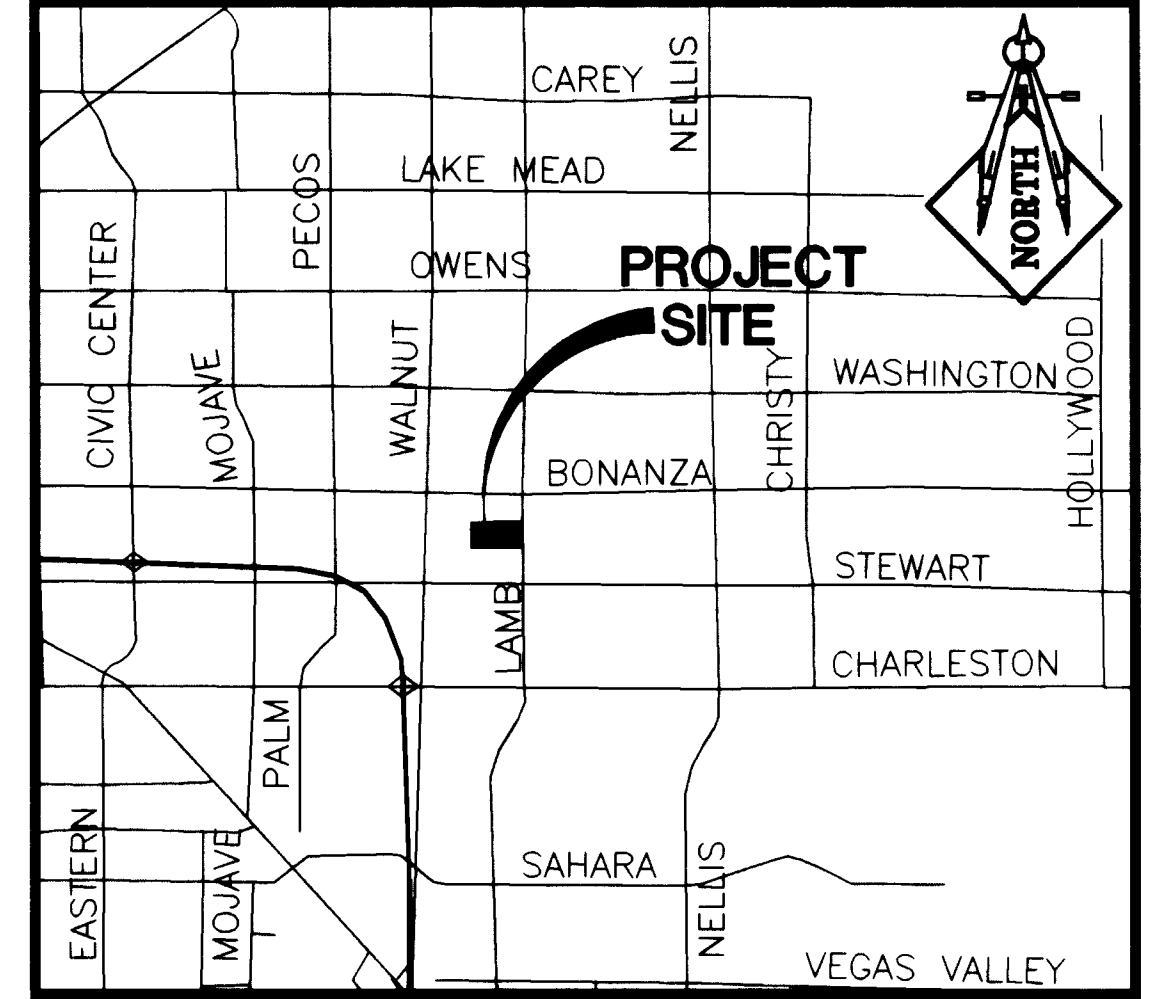
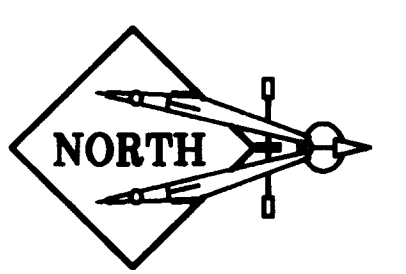
FLOOD ZONE

PROPERTY LIES WITHIN F.E.M.A. FLOOD ZONE "X". ZONE "X" IS DESCRIBED AS AREA TO BE OUTSIDE 500-YEAR FLOODPLAIN.

NOTE
 LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING 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, IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY!
 Call before you Dig - 1-800-227-2800 (NEVADA SERVICE UNIT 3344)

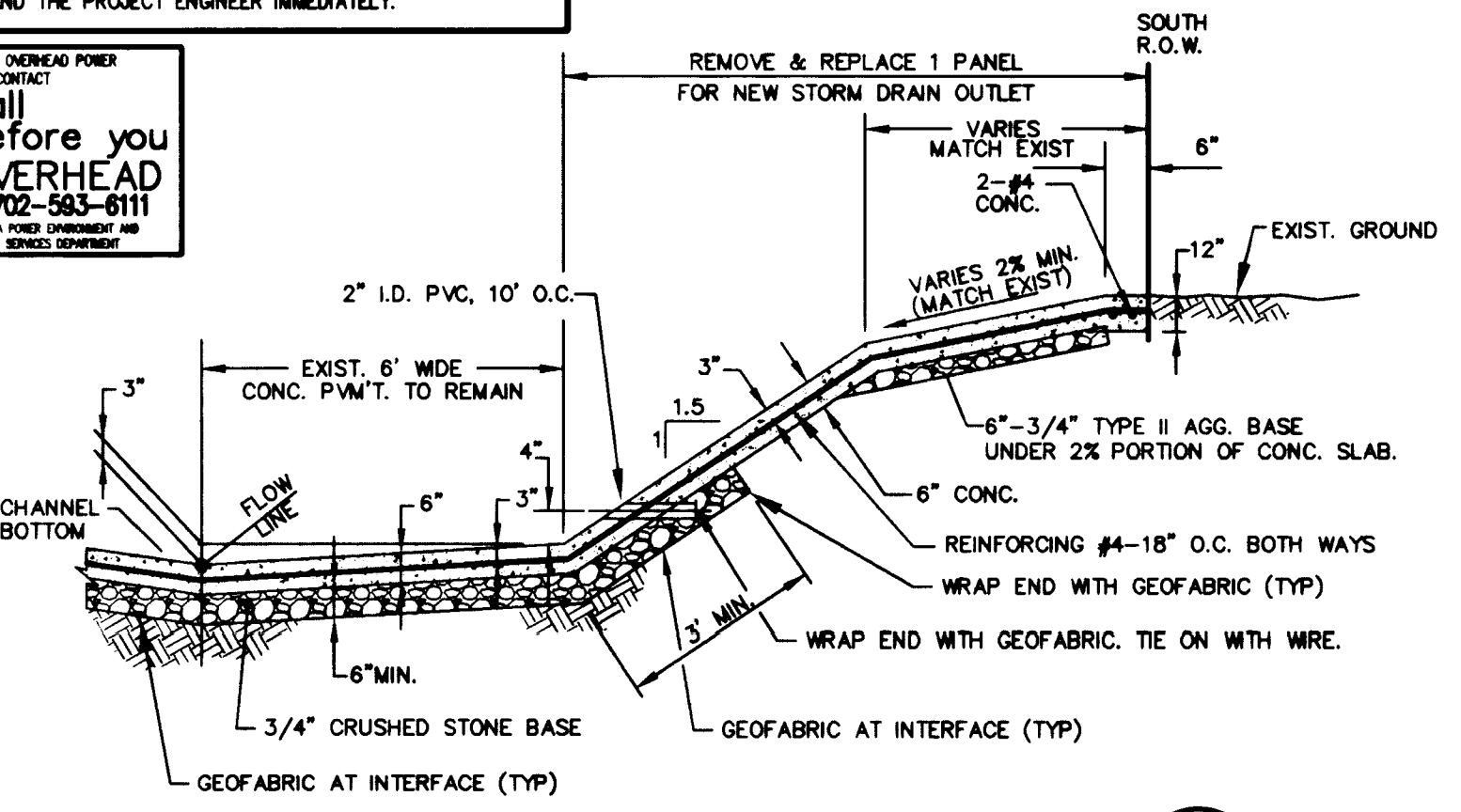
AVOID OVERHEAD POWER LINES. IT'S COSTLY!
 Call before you Overhead - 1-702-583-8111 (NEVADA POWER COMPANY SAFETY SERVICE DEPARTMENT)



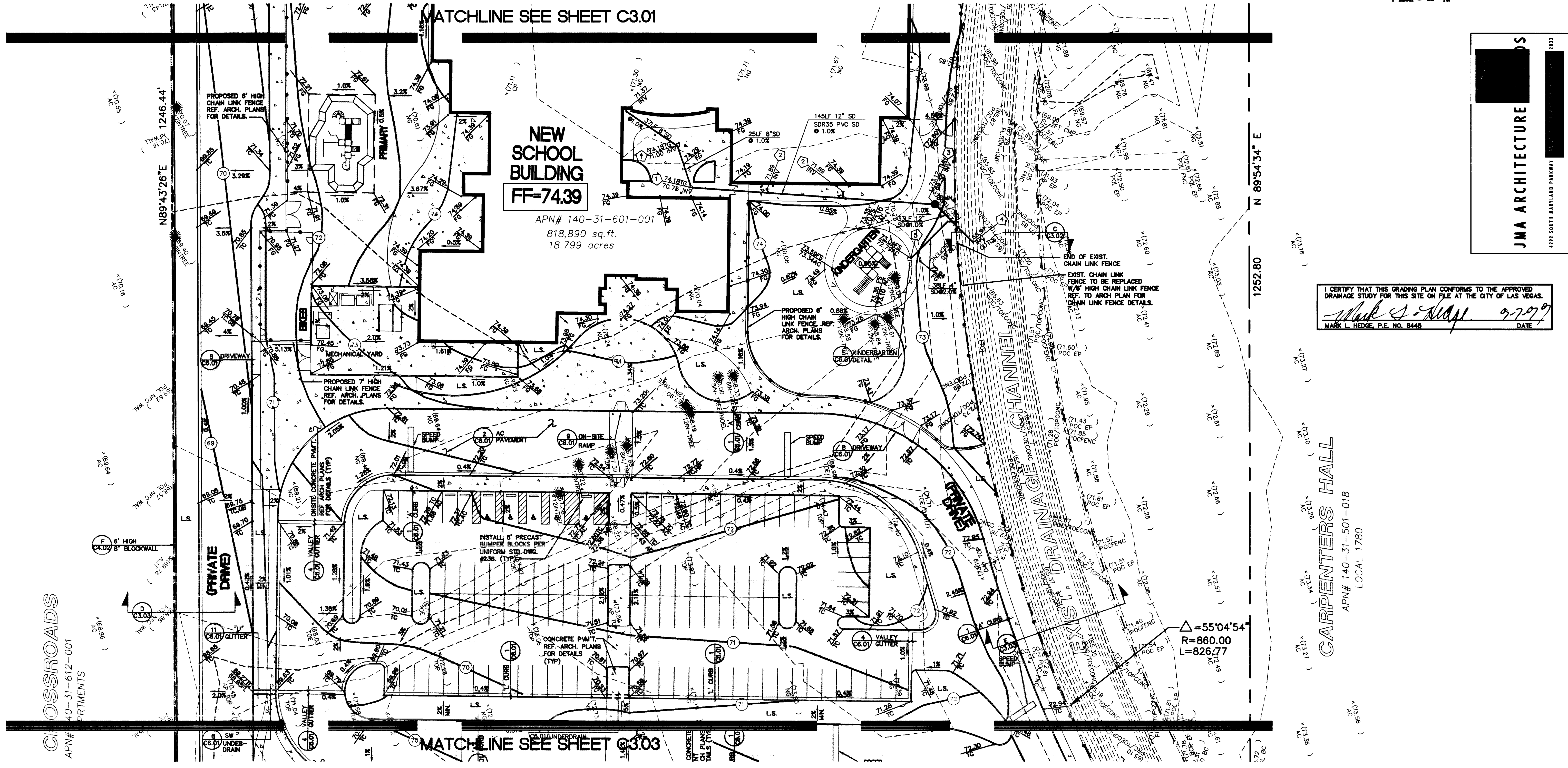
NOTE:
 PROPOSED FINISH GRADES FOR MOW STRIP, A.C. PAVEMENT, VALLEY GUTTER, ETC. AROUND PLAYGROUND AREA ARE BASED ON 3-INCH THICK FALL SURFACE AND ARE TO BE ADJUSTED AS NECESSARY BY THE CONTRACTOR WHEN THE THICKNESS OF THE FALL SURFACE IS VERIFIED. IF THE ADJUSTMENT WOULD CAUSE A TRIP HAZARD SITUATION, DRAINAGE PROBLEM, ETC., CONTRACTOR TO CONTACT OWNER'S REPRESENTATIVE, PROJECT ARCHITECT AND PROJECT ENGINEER PRIOR TO COMMENCEMENT OF WORK. ALSO REFERENCE DETAILS OF PLAY SURFACE, ETC. ON ARCHITECTURAL DRAWING.

STORM DRAIN CONSTRUCTION NOTES:

- INSTALL JENSEN PRECAST DROP INLET MODEL 2424SD1 OR APPROVED EQUAL.
- CONNECT 4" ROOF DRAIN TO STORM DRAIN.
- CONSTRUCT STD. 48" MH (STORM DRAIN) PER UNIFORM STANDARD DWG.
- INSTALL PIPE END SECTION PER DETAIL (7) (8) (9).
- INSTALL DRAINAGE STRUCTURE PER DETAIL (2) (3) (4).



CHANNEL SECTION
 N.T.S. (C3.02)



CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS.

Mark L. Hedge 9/7/99
 MARK L. HEDGE, P.E. NO. 8445 DATE

JMA ARCHITECTURE
 4792 SOUTH MARYLAND PARKWAY
 70333

LOCHSA ENGINEERING
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 Suite 308
 Las Vegas, Nevada, 89146
 Phone (702) 385-8312
 Fax (702) 385-8317

DESIGNED BY: M.M.B.	9/1/99
CHECKED BY: M.L.H.	9/1/99
PROJECT NO.:	512
SCALE:	1" = 30'
SHEET C3.02 7 OF 15 SHEETS DRAWING NO. 715-121	
SHEET GRADING PLAN 2	
TITLE WILLIAM K. MOORE ELEMENTARY SCHOOL	

