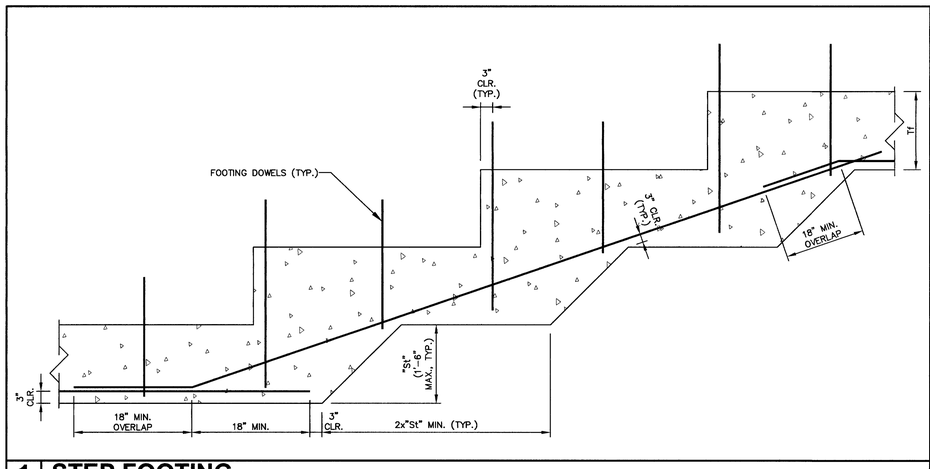
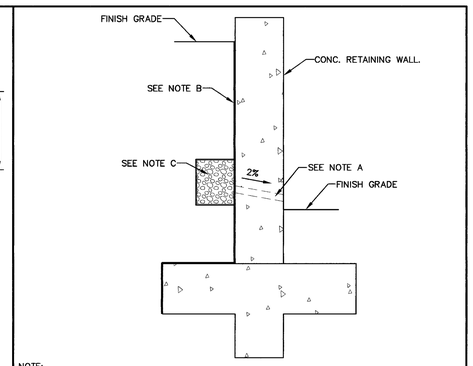


1 STEP FOOTING

N.T.S.



NOTE:

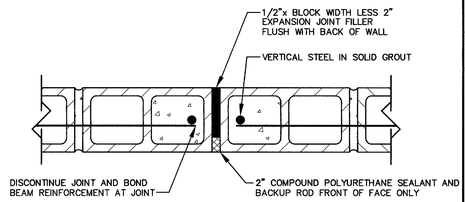
A. INSTALL 3" DIA. PVC PIPE DRAIN @ 6' MAX. O.C. EXPOSED WALL DRAINS SHALL BE LOCATED 3" ABOVE FINISH GRADE.

B. APPLY WATERPROOFING MEMBRANE AS SHOWN PER SPECIFICATIONS SECTION 07112 AT ALL RETAINING WALLS.

C. INSTALL 1 C.F. OF 3/4" CRUSHED ROCK AND WRAP W/NON-WOVEN FILTER FABRIC MIRAFI OR APPROVED EQUAL @ EACH WEEP HOLE, TYPICAL.

2 TYPICAL WEEP HOLE

N.T.S.



NOTE:

LOCATE CONTROL JOINTS IN CMU WALLS AT MAXIMUM SPACING OF 30'.

3 CMU WALL CONTROL JOINT DETAIL

N.T.S.

GENERAL RETAINING WALL NOTES:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ARCH WELDING OF REINFORCING STEEL SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARDS FOR REINFORCING STEEL.
2. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4,500psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150.
3. MASONRY UNITS SHALL BE ASTM C-90, GRADE N-1 HOLLOW CONCRETE UNITS. MASONRY DESIGN STRESS IS AS FOLLOWS: f'm=2000psi.
4. MORTAR SHALL BE ASTM C-270, TYPE "M" OR "S" WITH A MINIMUM STRENGTH OF 1,800psi AT 28 DAYS.
5. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2,500psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150.
6. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL CONFORM TO THE UNIFORM BUILDING CODE, LATEST EDITION.
7. SOLID GROUT ALL MASONRY UNITS.
8. ALL CORNERS SHALL BE TIED TOGETHER WITH REINFORCING STEEL.
9. WHERE VERTICAL GROUT POURS ARE NOT CONTINUOUS FOR THE ENTIRE HEIGHT OF THE WALL, TERMINATE LIFT 1-½" BELOW TOP BLOCK TO FORM A KEY FOR FUTURE LIFTS
10. LOCATE CONSTRUCTION JOINTS IN CMU RETAINING WALL AT A MAXIMUM SPACING OF 30'.
11. WALLS SHALL BE STEPPED IN INCREMENTS OF NOT MORE THAN 1'-4".
12. BACK FILL BEHIND WALLS SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY.
13. HEAVY CONSTRUCTION EQUIPMENT SHOULD MAINTAIN A MINIMUM DISTANCE OF 3' FROM THE WALL WHILE THE BACK FILL SOILS ARE PLACED. HAND COMPACTION EQUIPMENT SHOULD BE USED TO COMPACT THE BACK FILL SOILS WITHIN THE MIN 3' WIDE ZONE ADJACENT TO THE WALL.
14. REFER TO RECOMMENDATIONS OUTLINED IN THE SOILS REPORT FOR THIS PROJECT.
15. PROVIDE CONC. WALL CONTROL JOINTS @ 20'-0" O.C. MAX. CONSTRUCTION JOINTS MAY BE USED IN PLACE OF CONTROL JOINTS PER CONTRACTOR'S DISCRETION. THE REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT (CONSTRUCTION AND CONTROL). CONTROL JOINTS SHALL BE BOTH FACES OF WALL, 1/2" DEEP x 1" WIDE. (REVEAL 45°)

CMU RETAINING WALL SECTION "1" - SEE SHEET C6.00

H	T1	W	W1	W2	TF	S	L1	Y BARS	V BARS	X BARS	Z BARS	REMARKS
4'-0"	8"	4'-2"	3'-6"	8"	1'-2"	7"	26"	#4 @ 8" O.C.	#4 @ 8" O.C.	#4 @ 8" O.C.	#4 @ 18" O.C.	SPECIAL INSPECTION REQUIRED
3'-4"	8"	3'-5"	2'-9"	8"	1'-0"	7"	26"	#4 @ 8" O.C.	#4 @ 8" O.C.	#4 @ 8" O.C.	#4 @ 18" O.C.	SPECIAL INSPECTION REQUIRED
2'-4"	8"	2'-8"	2'-0"	8"	1'-0"	7"	26"	#4 @ 8" O.C.	#4 @ 16" O.C.	#4 @ 8" O.C.	#4 @ 18" O.C.	–

CMU RETAINING WALL SECTION "2" - SEE SHEET C6.00

H	H1	H2	T1	T2	W	W1	W2	TF	C	S	L1	Y BARS	V BARS	X BARS	Z BARS	REMARKS
7'-4"	4'-8"	2'-8"	16"	8"	7'-10"	5'-6"	1'-4"	2'-0"	11"	8"	41"	#5 @ 8" O.C.	#6 @ 8" O.C.	#5 @ 8" O.C.	#4 @ 18" O.C.	SPECIAL INSPECTION REQUIRED
6'-8"	4'-8"	2'-8"	16"	8"	6'-7"	4'-3"	1'-4"	1'-4"	8"	8"	41"	#5 @ 8" O.C.	#5 @ 8" O.C.	#5 @ 8" O.C.	#4 @ 18" O.C.	SPECIAL INSPECTION REQUIRED
6'-0"	4'-0"	2'-0"	12"	8"	7'-9"	5'-9"	1'-0"	1'-4"	10"	8"	26"	#4 @ 8" O.C.	#4 @ 8" O.C.	#5 @ 8" O.C.	#4 @ 18" O.C.	SPECIAL INSPECTION REQUIRED
5'-4"	3'-4"	2'-0"	12"	8"	5'-6"	3'-6"	1'-0"	1'-4"	10"	8"	26"	#5 @ 8" O.C.	#5 @ 8" O.C.	#5 @ 8" O.C.	#4 @ 18" O.C.	SPECIAL INSPECTION REQUIRED

CONCRETE/CMU RETAINING WALL SECTION "3" - SEE SHEET C6.00

H	H1	H2	H3	T1	T2	T3	W	W1	W2	TF	C	S	L1	L2	U BARS	Y BARS	V BARS	X BARS	Z BARS	H BARS	K BARS	REMARKS
10'-0"	6'-0"	2'-8"	2'-8"	12"	12"	8"	13'-6"	10'-7"	1'-0"	1'-10"	28"	10"	36"	26"	#5 @ 8" O.C.	#4 @ 16" O.C.	#4 @ 16" O.C.	#5 @ 8" O.C.	#6 @ 13" O.C.	3 #5	#4 @ 12" O.C.	SPECIAL INSPECTION REQUIRED
9'-0"	4'-0"	2'-8"	2'-8"	12"	12"	8"	10'-6"	7'-9"	1'-0"	1'-10"	24"	8"	36"	26"	#4 @ 8" O.C.	#4 @ 16" O.C.	#4 @ 16" O.C.	#5 @ 8" O.C.	#6 @ 13" O.C.	3 #5	#4 @ 12" O.C.	SPECIAL INSPECTION REQUIRED

Call before you UnderGround 1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS and 1-702-229-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Avoid overhead power line contact. It's costly. Call before you OVERHEAD 1-702-593-6111

Avoid cutting underground utility lines. It's costly. Call before you Dig 1-800-227-2600

LEGEND

CL OR SURVEY LINE · PROPERTY LINE · ROW LINE · EASEMENT LINE · SAWCUT LINE · SCARP LINE · HEAVY AC PV. · LIGHT AC PV. · HEAVY CONC. PV. · LIGHT CONC. PV.

MANHOLES & DESCRIPTIONS: (S) = SANITARY SEWER; (D) = STORM DRAIN; (E) = ELECTRICAL; (T) = TELEPHONE

CAP · DESCRIPTION: EXISTING: PROPOSED: · BO VALVE · CLEAN OUT · FDC · FIRE HYDRANT · GATE VALVE · REDUCER · 100w HPS STREETLIGHT · 150w HPS STREETLIGHT · 200w HPS STREETLIGHT · 250w HPS STREETLIGHT · 400w HPS STREETLIGHT · 5' CONTOUR LINE (2210) 2210 · 1' CONTOUR LINE 2211 · EDGE OF PVMT. · "A" TYPE CURBS · "L" TYPE CURBS · WALLS · FENCES · SPOT ELEVATIONS (12.3±) BC, 12.34 BC · SIGNS

Nevada By Design
ENGINEERING CONSULTANTS
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Las Vegas, NV 89121
Phone: (702) 939-1525 - Fax: (702) 939-1530
www.nvbydesign.com

96140

CLAYTON L. NEILSEN, EXP: 12/31/07, CIVIL, No. 14132, STATE OF NEVADA, PROFESSIONAL ENGINEER
STAMP: 9/7/06

1 REVISIONS PER BUILDING DEPARTMENT 9/01/06 CLN

REVISIONS:

ARCHITECT:
WELLES· PUGSLEY ARCHITECTS L.L.P.
2480 EAST TOMPKINS AVE. SUITE 222, LAS VEGAS NEVADA, 89121
ph. 702.455.1151 fax. 702.455.7699 e-mail. wpp@wellespugsleyarchitect.com

AUTOMATION - DESERT BMW OF LAS VEGAS
6900 W. SAHARA AVENUE
LAS VEGAS, NEVADA

RETAINING WALL DETAILS AND SCHEDULES

SHEET TITLE/PROJECT NAME:

JRJ INVESTMENT, INC. C/O AUTOMATION
110 S.E. 6TH STREET
FT. LAUDERDALE, FL 33301

PROJECT OWNER:

MUNICIPALITY: CITY OF LAS VEGAS

STATE: NEVADA

SUBMITTAL: PLAN CHECK

PROJECT LOCATION:

PROJECT NUMBER: WP-0504

DRAWN BY: DMZ

CHECKED BY: CLN

DATE: 3/27/2006

C6.01

SHEET: 12 OF 13

107V4667

REPLOT