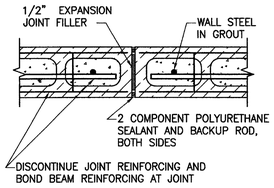
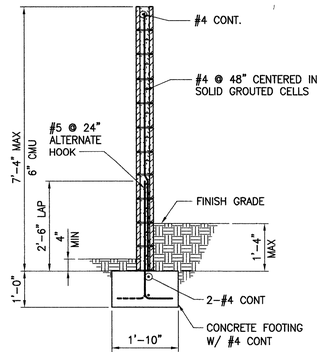


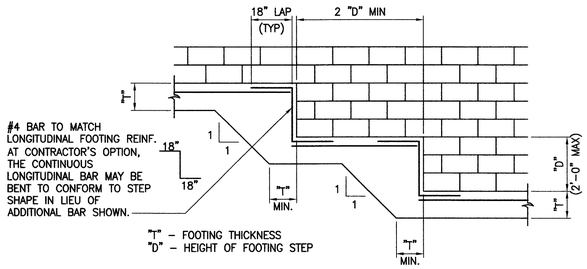
5 TYPICAL CONSTRUCTION JOINT DETAIL

SCALE: NONE



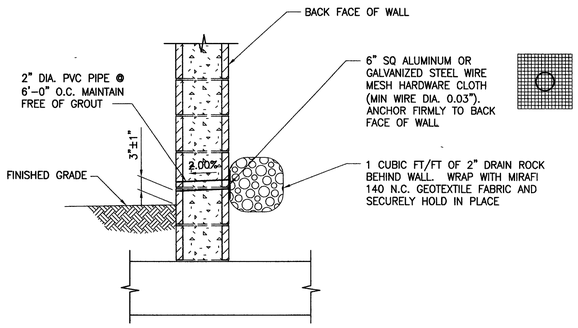
2 CMU SCREEN WALL

SCALE: 1/2" = 1'-0"



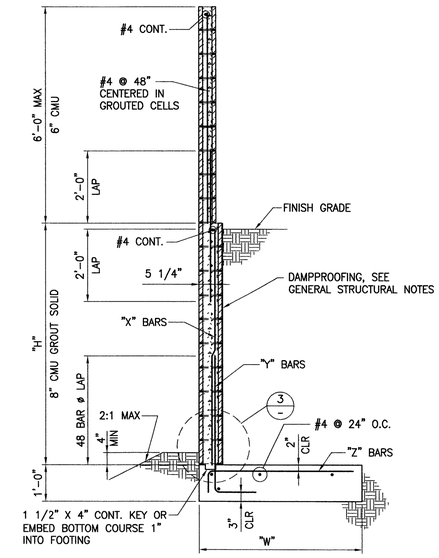
4 STEPPED FOOTING

SCALE: NONE



3 WEEPHOLE DETAIL

SCALE: NONE



DIMENSIONS		"X"	"Y"	"Z"
H	W	BARS	BARS	BARS
2'-0"	2'-6"	#4 @ 48"*	#4 @ 48"	#4 @ 24"
2'-8"	2'-6"	#4 @ 48"*	#4 @ 48"	#4 @ 24"
3'-4"	2'-6"	#4 @ 48"*	#5 @ 48"	#4 @ 24"
4'-0"	2'-9"	#4 @ 48"	#5 @ 24"	#4 @ 24"
4'-8"	3'-0"	#4 @ 48"	#5 @ 24"	#4 @ 24"
5'-4"	3'-6"	#4 @ 48"	#5 @ 16"	#4 @ 24"
6'-0"	4'-0"	#5 @ 48"	#5 @ 16"	#4 @ 16"
6'-8"	4'-6"	#5 @ 48"	#6 @ 8"	#4 @ 16"

* FOR THIS HEIGHT WALL THE "X" BARS MAY BE ELIMINATED BY EXTENDING THE "Y" BARS TO THE TOP OF THE WALL

1 RETAINING WALL DETAIL & SCHEDULE

SCALE: 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
2. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 2500 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150, NO SPECIAL INSPECTION IS REQUIRED.
3. MASONRY UNITS SHALL BE ASTM C-90, GRADE N-1 HOLLOW CONCRETE UNITS. MASONRY DESIGN STRESS IS AS FOLLOWS: f'm=1,500 psi. SPECIAL INSPECTION PER THE 2000 IBC SECTION 1704 SHALL BE PROVIDED.

   ONE-HALF ALLOWABLE MASONRY STRESSES ARE USED FOR THE DESIGN OF RETAINING WALLS WITH H = 4'-0" OR LESS AND A HEIGHT OF COMBINATION RETAINING AND FENCE WALLS NOT EXCEEDING 10'-0". THIS IS IN ACCORDANCE WITH CLARK COUNTY BUILDING DEPARTMENT CODE INTERPRETATION NO. 15.2.28, DATED AUGUST 22, 2003.
4. MORTAR SHALL BE ASTM C270, TYPE "M" OR "S" WITH A MINIMUM STRENGTH OF 1900 psi AT 28 DAYS.
5. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2000 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150.
6. PROVIDE 9-GA. LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER THROUGHOUT ALL MASONRY CONSTRUCTION, LAP SPLICES OF 12" MINIMUM, INCLUDING CORNERS.
7. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL CONFORM TO THE UNIFORM BUILDING CODE, LATEST EDITION, AND PER STANDARD SPECIFICATIONS FOR THE CLARK COUNTY, NEVADA, BUILDING DEPARTMENT.
8. ALL WALLS ARE SUBJECT TO APPROVAL BY THE CLARK COUNTY, NEVADA, BUILDING DEPARTMENT.
9. SOLID GROUT ALL MASONRY UNITS THAT ARE BELOW THE HIGHEST FINISH GRADE AT THE WALL.
10. SOLID GROUT ALL MASONRY UNITS CONTAINING STEEL REINFORCEMENT.
11. ALL CORNERS OR ANGLES SHALL BE TIED TOGETHER WITH REINFORCING STEEL AND GROUTED SOLID.
12. WHERE VERTICAL GROUT POURS ARE NOT CONTINUOUS FOR THE ENTIRE HEIGHT OF THE WALL, TERMINATE LIFT 1 1/2" BELOW TOP OF TOP BLOCK TO FORM A KEY FOR FUTURE LIFTS.
13. LOCATE CONSTRUCTION JOINT IN RETAINING WALL AT A MAXIMUM SPACING OF 24'-0".
14. BOND BEAMS AND JOINT REINFORCING SHALL NOT BE CONTINUOUS THROUGH WALL CONSTRUCTION JOINTS.
15. WALLS SHALL BE STEPPED ONLY AS SHOWN ON THE PLANS.
16. IF ACTUAL HEIGHT OF WALL IS NOT LISTED IN TABLE, USE STEEL AND DIMENSIONS FOR NEXT HIGHEST WALL LISTED.
17. DAMPPROOFING: DAMPPROOFING SHALL BE AS FOLLOWS:

    A. APPLY 40-MIL KOCH WATCHDOG DAMPPROOFING MEMBRANE, AS MANUFACTURED BY KOCH MATERIALS COMPANY, OVER SOIL SIDE OF RETAINING WALL. APPLICATION OF THE WATCHDOG DAMPPROOFING MEMBRANE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

    B. INSTALL A 24-MIL DIMPLED HDPE MEMBRANE OVER KOCH WATCHDOG MEMBRANE. PROVIDE DELTA-DRAIN AS MANUFACTURED BY COSELLA - DORKEN. APPLICATION OF THE DELTA-DRAIN SYSTEM SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS, AND MATERIALS.
18. BACKFILL BEHIND WALLS SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
19. WHERE RETAINING WALLS ARE SHOWN ON PERIMETER STREETS, USE DECORATIVE BLOCK TO MATCH THOSE OF THE PERIMETER WALLS.
20. SOILS REPORT PREPARED BY OWENS GEOTECHNICAL, INC., PROJECT NO.: E-04-296 DATED OCTOBER 11, 2004:

    ALLOWABLE SOILS BEARING PRESSURE = 2000 psf (1/3 INCREASE FOR WIND OR SEISMIC)
    SOIL ACTIVE PRESSURE = 35 psf/ft (LEVEL)
    SOIL PASSIVE PRESSURE = 250 psf/ft
    COEFFICIENT OF FRICTION = 0.40
    SEISMIC SITE CLASS = C

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — RIMAH NAZZAL — No. 12871 — CIVIL/STRUCTURAL — DATE 6/29/05

REV	DATE	DESCRIPTION
	DATE	AGEN. APP
	DATE	GOV. APP

DESIGN: DAT
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PLOT TIME: 10:37:54

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1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299
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PINNACLE HOMES
SABLE CREEK
GENERAL STRUCTURAL NOTES AND DETAILS

DRAWING
S-1