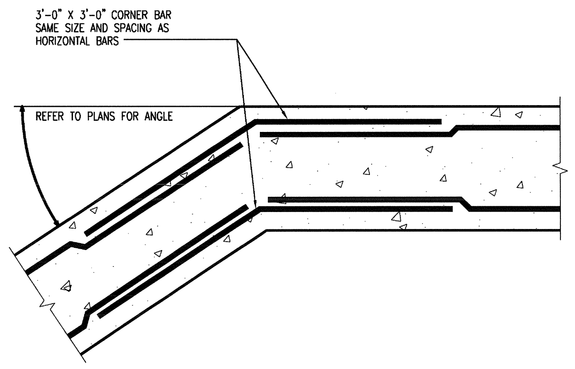
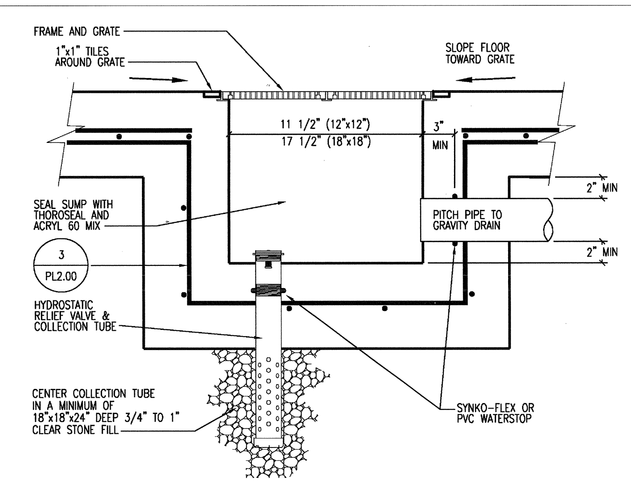
THIS SPACE NOT USED — PL2.00-15 — SCALE: NONE



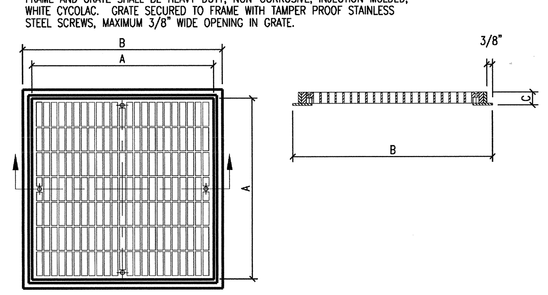
DOUBLE MAT REINFORCEMENT @ WALL BEND DETAIL — PL2.00-11 — SCALE: NONE



MAIN DRAIN WITH HYDROSTATIC RELIEF VALVE DETAIL — PL2.00-5 — SCALE: NONE

DIMENSIONS–MAIN DRAIN FRAME & GRATE							
ORDER NUMBER	SIZE	A	B	C	SECURING SCREWS	SQ. IN. OPEN AREA	MAX. GPM FLOW @ 1 1/2 FPS
54–2020	12"x12"	12"	13 13/16"	1"	4	85.86	401
54–0004	18"x18"	18"	18 1/2"	1.19"	4	115	535

FRAME AND GRATE SHALL BE HEAVY DUTY, NON–CORROSIVE, INJECTION MOLDED, WHITE CYCOLAC. GRATE SECURED TO FRAME WITH TAMPER PROOF STAINLESS STEEL SCREWS, MAXIMUM 3/8" WIDE OPENING IN GRATE.



NOTES:
1. SUMP SHALL BE POURED MONOLITHIC WITH POOL FLOOR.
2. WALLS AND BOTTOM OF SUMP SHALL BE SAME THICKNESS AS POOL FLOOR.
3. REINFORCING STEEL SHALL BE SAME SIZE AND SPACING AS POOL FLOOR, CENTERED IN SLAB, AND CONTINUOUS.
4. VERIFY FRAME AND GRATE DIMENSIONS WITH MANUFACTURER.

STRUCTURAL REINFORCEMENT NOTES — PL2.00-1 — SCALE: NONE

STRUCTURAL NOTES:

1. UNLESS OTHERWISE SHOWN, CONCRETE WALLS AND SLABS SHALL BE REINFORCED AS FOLLOWS: NO. 4'S @ 8" EACH WAY CENTER OF 8" SECTIONS; NO. 4'S @ 12" EACH WAY, EACH FACE OF 12" SECTIONS. SINGLE MAT REINFORCEMENT SHALL BE AT CENTER OF SECTION, UNLESS SHOWN OTHERWISE

2. MINIMUM CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE 3" WHEN PLACED ON GROUND; FOR SURFACES EXPOSED TO WATER, EARTH OR WEATHER– 1 1/2" CLEARANCE FOR NO. 4 BARS OR SMALLER AND 2" CLEARANCE FOR LARGER BARS; INTERIOR SLABS– 3/4" CLEARANCE, INTERIOR BEAMS 1 1/2" CLEARANCE.

3. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL IN GENERAL, THE WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE CALLED OUT ON THE PLANS AND REFERENCED TO THESE DETAILS AND THE TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH CORNER AND INTERSECTION REINFORCING.

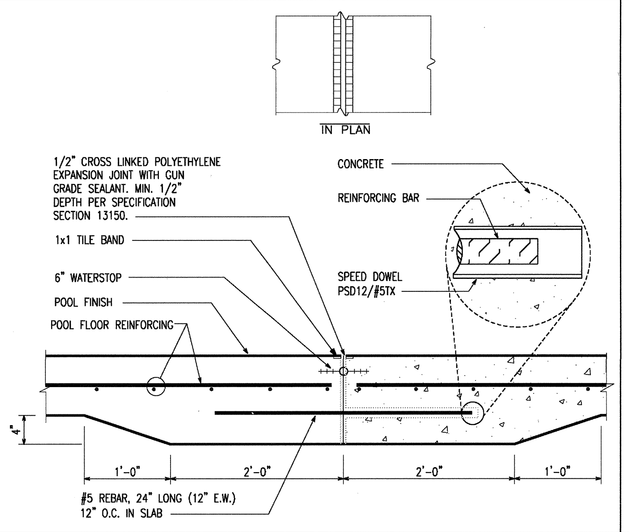
4. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE A 90 DEGREE STANDARD HOOK AS DEFINED IN LATEST EDITION OF ACI 318.

5. UNLESS OTHERWISE NOTED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS AS INDICATED ELSEWHERE ON THESE DRAWINGS. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLAB REINFORCEMENT. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDAL BEAM BARS AT LOCATIONS OF THERE CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIRMENTS. (SHOWN BELOW)

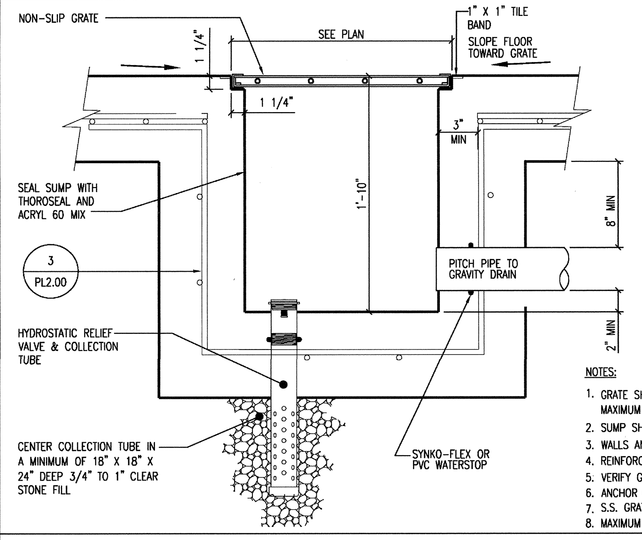
DETAIL OF REINFORCEMENT – LAP LENGTHS – CONC. DESIGN STRENGTH 4000 PSI									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
GR–60 TOP BAR	1'–8"	2'–2"	2'–8"	3'–2"	4'–6"	5'–2"	5'–10"	6'–6"	7'–3"
GR–60 OTHER BAR	1'–3"	1'–8"	2'–0"	2'–6"	3'–6"	4'–0"	4'–6"	5'–2"	5'–8"

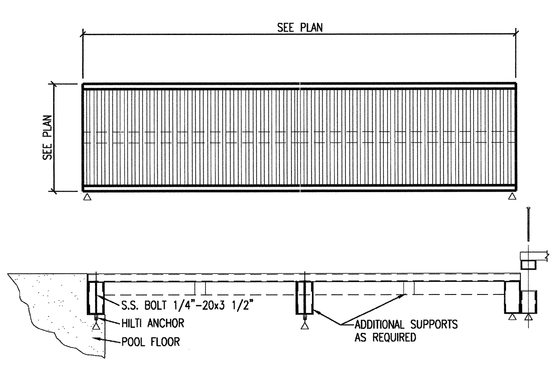
THIS SPACE NOT USED — PL2.00-16 — SCALE: NONE

POOL FLOOR EXPANSION JOINT DETAIL — PL2.00-12 — SCALE: NONE



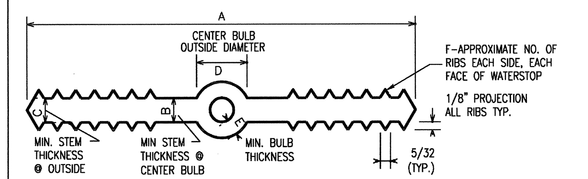
SUCTION PIT WITH HYDROSTATIC RELIEF — PL2.00-6 — SCALE: NONE





NOTES:
1. GRATE SHALL BE 3/8"W x 3/4" TALL x 0.150" PVC TUBING. ALL CONNECTIONS SHALL BE MADE WITH STAINLESS STEEL HARDWARE. MAXIMUM 3/8" WIDE OPENINGS IN GRATE. OPEN AREA = 22%. MFGR: GRATE IDEAS, OR EQUAL OPEN AREA
2. SUMP SHALL BE POURED MONOLITHIC WITH POOL FLOOR.
3. WALLS AND BOTTOM OF SUMP SHALL BE SAME THICKNESS AS POOL FLOOR.
4. REINFORCING STEEL SHALL BE SAME SIZE AND SPACING AS POOL FLOOR, CENTERED IN SLAB, AND CONTINUOUS.
5. VERIFY GRATE DIMENSIONS WITH MANUFACTURER.
6. ANCHOR GRATE TO CONCRETE WITH STAINLESS STEEL HARDWARE AT MINIMUM 2'–0" ON CENTER SPACING.
7. S.S. GRATE REINFORCEMENT TO MEET OR EXCEED ALL STATE AND LOCAL HEALTH DEPT. REGULATIONS.
8. MAXIMUM CONCENTRATED LOAD (300 LBS./SQ.FT.) DEFLECTION NOT TO EXCEED 1/8".

WATERSTOP DETAIL — PL2.00-2 — SCALE: NONE



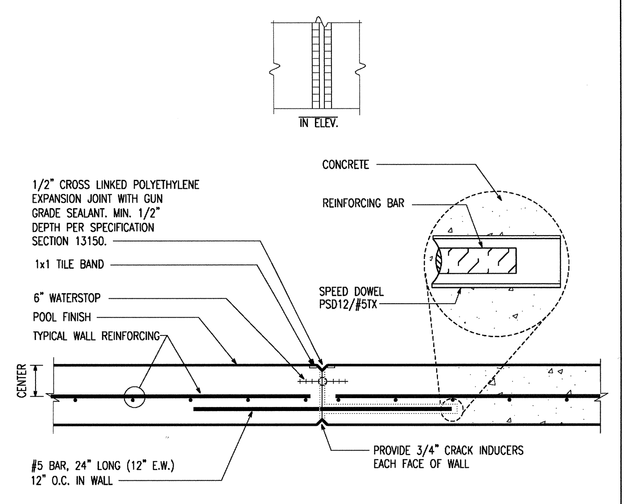
SIZE	A	B	C	D	E	F
WALLS & FLOOR 6"x3/8"	6"	3/8"	3/8"	7/8"	1/4"	6

CONSULT WATERSTOP MANUFACTURER FOR SPLICING METHODS.

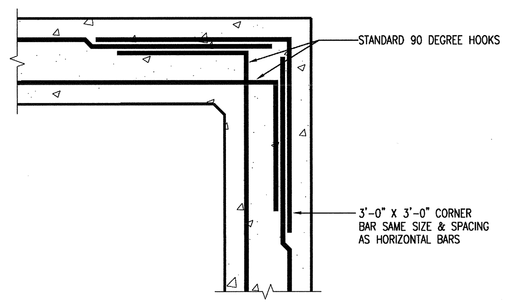
NOTES:
1. MATERIAL QUALITY PER SPECIFICATIONS SECTION 13150
2. DIM. REQUIREMENTS INDICATED SHOULD BE GIVEN TO SUPPLIERS PRIOR TO PLACING ORDERS
3. NON–ROUND CENTER BULBS SHALL HAVE A MIN. OUTSIDE DIM. OF "D"
4. PROVIDE A MINIMUM OF 1 1/2" CONCRETE COVERAGE OVER WATERSTOP UNDER ALL CIRCUMSTANCES.

THIS SPACE NOT USED — PL2.00-17 — SCALE: NONE

POOL WALL EXPANSION JOINT DETAIL — PL2.00-13 — SCALE: NONE

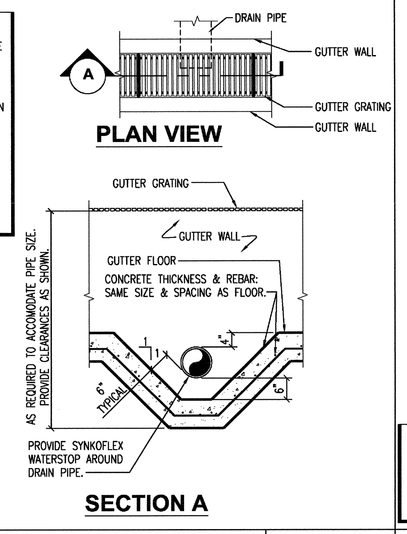


DOUBLE MAT REINFORCING @ CORNER DETAIL — PL2.00-9 — SCALE: NONE

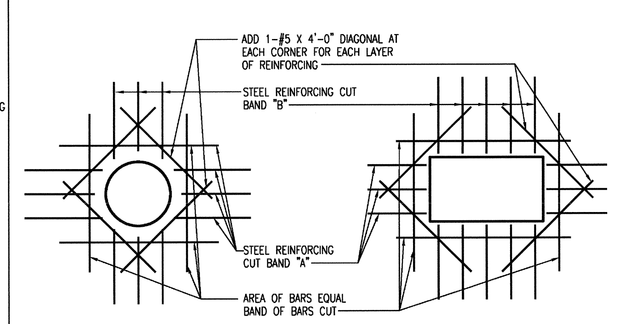


GUTTER DRAIN PIPE PENETRATION DETAIL — PL2.00-7 — SCALE: NONE

NOTES:
1. LOWER GUTTER FLOOR WHERE DRAIN PIPE PENTRATES WALL SO THAT COMPLETE DRAINAGE OF GUTTER IS PROVIDED.
2. PROVIDE SYNKOFLEX WATERSTOP AROUND DRAIN PIPE AT GUTTER WALL PENETRATION
3. PROVIDE 6" PVC BULB–TYPE WATERSTOP AT INTERSECTION OF GUTTER FLOOR AND GUTTER WALLS.
4. PROVIDE CLEARANCES AROUND DRAIN PIPE AS INDICATED ON SECTION.
5. SEAL GUTTER WALLS AND FLOOR WITH ACRYL–60 AND THORO–SEAL.



REINFORCEMENT @ OPENINGS DETAIL — PL2.00-3 — SCALE: NONE

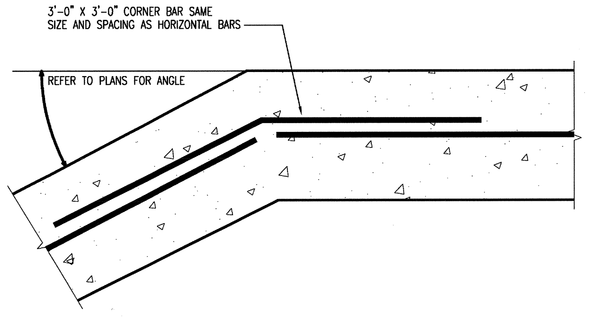


NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLAB INCLUDING DRAINS UNLESS INDICATED OTHERWISE ON PLANS
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS
3. ALL OPENINGS THROUGH WATERTIGHT TANK REQUIRE WATERSTOPS

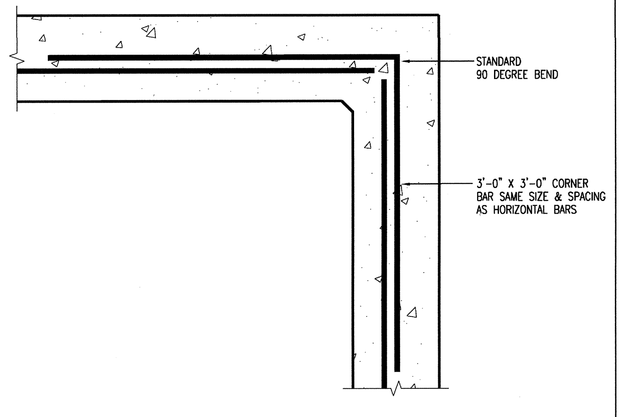
THIS SPACE NOT USED — PL2.00-18 — SCALE: NONE

THIS SPACE NOT USED — PL2.00-14 — SCALE: NONE

SINGLE MAT REINFORCEMENT @ WALL BEND DETAIL — PL2.00-10 — SCALE: NONE

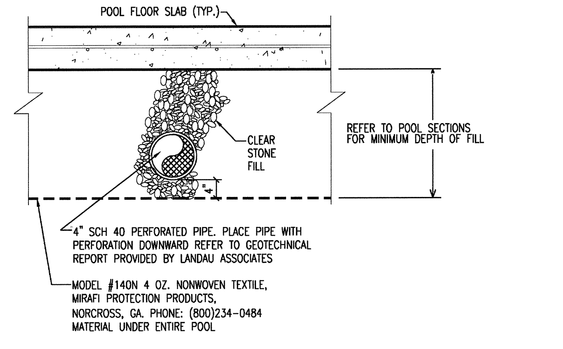


SINGLE MAT REINFORCING @ CORNER DETAIL — PL2.00-8 — SCALE: NONE



POOL UNDER DRAINAGE DETAIL — PL2.00-4 — SCALE: NONE

COMPACTION NOTE:
3/4" – 1" CLEAR GRANULAR STONE WITH NO FINES SHALL BE PLACED IN MAXIMUM 6" LOOSE THICKNESS LIFTS. EACH LIFT SHALL BE COMPACTED WITH A COMPACTOR APPROVED BY THE SOILS ENGINEER. COMPACTION SHALL BE IN ACCORDANCE WITH ASTM.D.1557. INSTALLATION AND TESTING SHALL CONFORM TO DIVISION 2.



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Date: 4 / 25 / 2005

Revision / Date:
PERMIT ISSUE 2/7/05
Q.A. ISSUE 3/18/05
BID ISSUE 4/25/05

Sheet Title:
STRUCTURAL DETAILS

PL2.00

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