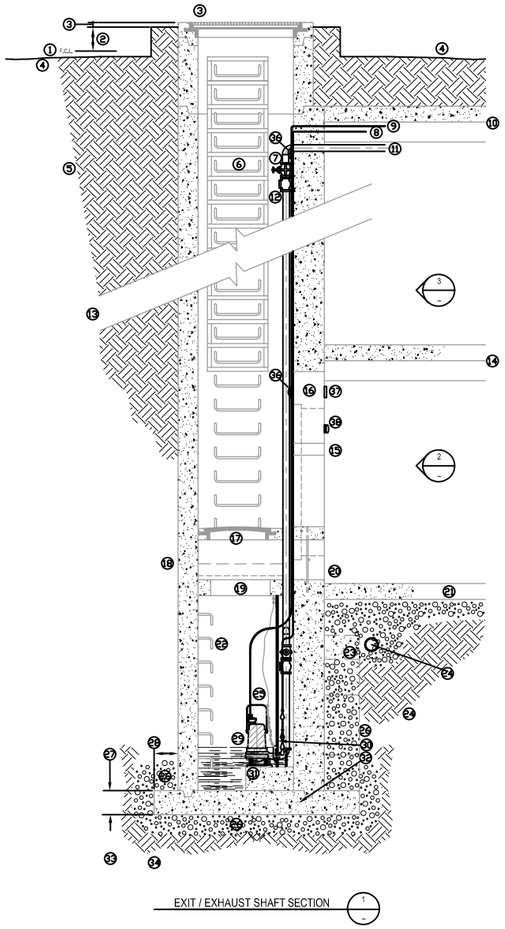
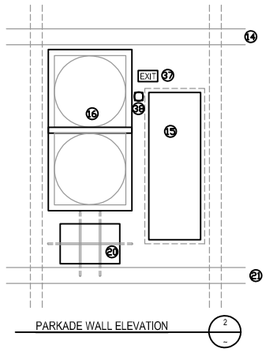
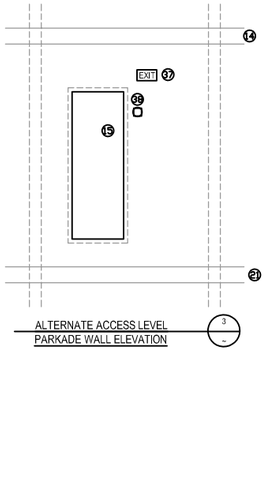






KEYNOTES:

1. FLOOD CONSTRUCTION LEVEL (F.C.L.) AS ESTABLISHED FOR LOCATION.
2. LANDSCAPE FEATURE (OR SIMILAR) TO MIN. 18" ABOVE F.C.L.
3. EXHAUST GRATE (*); TO SUIT LOADING CONDITIONS. SURFACE OF FRAME TO EXTEND 2" ABOVE SURROUNDING SURFACES. GRATE TO BE FITTED WITH ESCAPE HATCH C/W MAG LOCK AND MANUAL LATCH, BOTH ONLY RELEASABLE FROM WITHIN THE SHAFT. ALLOW CLEARANCES ABOVE SHAFT TO PERMIT FUTURE EXTENSION OF THE SHAFT, TO COMPENSATE FOR INCREASES IN F.C.L.
4. AVERAGE GRADE (REFER TO LANDSCAPE DWGS); MAY BE BELOW OR ABOVE F.C.L.,
5. COMPACTED FILL AND/OR UNDISTURBED SOIL.
6. LADDER C/W SAFETY CAGE.
7. ISOLATION VALVE
8. WEATHERTIGHT CONTROL WIRING TO CONTROL PANEL
9. WEATHERTIGHT POWER CONDUIT FROM CONTROL PANEL.
10. SUSPENDED SLAB/SLABBAND
11. SANITARY FORCE MAIN.
12. CHECK VALVE.
13. HEIGHT TO SUIT PROJECT CONDITIONS. PROVIDE ALTERNATE ACCESS EXITS AT ALL LEVELS BELOW F.C.L., WHERE ACCESS TO ESCAPE SHAFT IS POSSIBLE. MAINTAIN SIMILAR RISE FROM TOP OF SLAB TO BASE OF DOOR.
14. SUSPENDED SLAB/SLABBAND.
15. EXIT DOOR (OPENS INTO SHAFT)
16. EXHAUST FAN OPENING(S) (DESIGN ALLOWS FOR UP TO 2@MAX 36" FANS)
17. ACCESS COVER TO PUMP CHAMBER.
18. BASE OF EXIT SHAFT (MIN 12" ABOVE SLAB).
19. 30"x30" OPENING INTO PUMP CHAMBER.
20. 30"x 10" OVERFLOW OUTLET C/W MAXIMUM 10"x10" SECURITY BARS.
21. PARKADE SLAB-ON-GRADE (**), SLOPED AWAY FROM SHAFT, TOWARD CONVENTIONAL PARKADE DRAINAGE SYSTEM.
22. MANHOLE LADDER - RUNGS 12" ON CENTRE.
23. CONVENTIONAL FOOTING HEIGHT (STEPS DOWN) (**).
24. CONVENTIONAL INTERIOR DRAIN TILE, IF REQUIRED (**).
25. CONTROL FLOATS (QUANTITY TO SUIT).
26. FREE-DRAINING FILL, OR UNDISTURBED SOIL, AS REQUIRED (**).
27. FOUNDATION BASE (MIN. 8" THICK, REFER TO STRUCTURAL) (**).
28. FOOTING TO EXTEND BEYOND WALL, IF REQUIRED (REFER TO STRUCTURAL) (**).
29. SUMP PUMP FOR POST-FLOOD DE-WATERING (QUANTITY TO SUIT DESIRED DE-WATERING DURATION. DESIGN ALLOWS FOR UP TO 3 PUMPS).
30. LIFT-OUT RAIL ASSEMBLY, COMPATIBLE WITH HATCH SIZE..
31. CONCRETE PUMP PEDESTAL.
32. DROP FOOTING FOR PUMP CHAMBER (**).
33. DRAINAGE LAYER, IF REQUIRED (**).
34. UNDISTURBED SOIL.
35. PUMP CHAMBER.
36. WEATHERPROOF EMERGENCY LIGHTING IN SHAFT (UPS POWER, ONLY ILLUMINATES WHEN ACTIVATED).
37. WEATHERPROOF EXIT SIGN (UPS POWER, ONLY ILLUMINATES WHEN ACTIVATED).
38. WEATHERPROOF EMERGENCY RELEASE BUTTON. PROVIDE WARNING SIGN "ALARM WILL SOUND IF THIS BUTTON IS PUSHED."
39. OPENING IN CAGE FOR ACCESS TO LADDER FROM ALTERNATE LEVEL EXIT(S).
40. OPERABLE "HATCH" (*) FOR EXITING SHAFT ABOVE GRADE. RELEASE OF MAG-LOCK (EMERGENCY OR CONTROL RELEASE) AND MANUAL LATCH REQUIRED TO OPEN "HATCH". LATCHING DEVICES SHALL BE PROTECTED FROM ACCESS FROM ABOVE.
41. CATWALK GRATE. FOR FOOT TRAFFIC LOADING; NOT ANTICIPATED TO BE "HEEL-PROOF" (POST WARNING SIGN ON ACCESS DOOR), TO MINIMIZE IMPACT ON EXHAUST AIRFLOW.

SYSTEM NOTES:

TO MAINTAIN BUILDING SECURITY, ALL "ESCAPE" EXITS SHALL BE FITTED WITH MAG-LOCKS (ON UNINTERRUPTED POWER SUPPLY (UPS)) THAT WILL ONLY DE-ENERGIZE UPON SENSING OF ACCUMULATED MOISTURE WITHIN THE PARKADE. OVERRIDE BUTTONS SHALL BE PROVIDED WITHIN THE PARKADE AT HIGH LEVEL (NEAR THE TOP OF THE DOOR), ON ALL LEVELS EQUIPPED WITH "ESCAPE" EXITS; AND IN THE SHAFT (ONE LEVEL BELOW THE EXIT GRATE) FOR EMERGENCY USE. ACTIVATION OF ANY BUTTON WILL RELEASE ALL THE MAG-LOCKS AND INITIATE AN ALARM THAT WILL CONTINUE TO SOUND UNTIL IT IS MANUALLY RESET, AT THE CONTROL PANEL.
WHEN ACCUMULATED MOISTURE IS IDENTIFIED BY THE CONTROL SYSTEM, ALL "ESCAPE" MAG-LOCKS WILL BE RELEASED, THE EMERGENCY LIGHTING IN THE SHAFT WILL ILLUMINATE, AND THE EXIT SIGNS ADJACENT TO THE ENTRY DOORS WILL ILLUMINATE; THE EXIT ALARM WILL NOT SOUND.

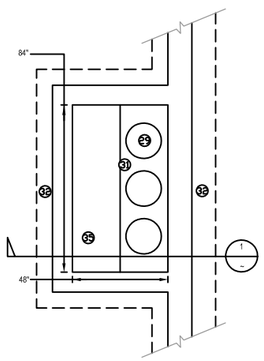
SYSTEM REQUIRES ANNUAL TESTING TO ENSURE OPERABILITY. ACTIONS TO INCLUDE FLOODING OF THE CHAMBER, TO ENSURE SENSOR AND FLOAT OPERATION, AS WELL AS PUMP START/OPERATION, IS CONFIRMED.

PUMPS TO BE ON EMERGENCY POWER, WHERE AVAILABLE.

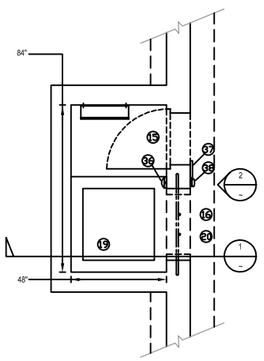
PUMPS MAY BE AUTOMATIC (FLOAT CONTROLLED), TO START AS SOON AS SUFFICIENT FLUID ACCUMULATION IN THE SUMP OCCURS, OR MANUALLY INITIATED (HUMAN INTERVENTION REQUIRED), TO START AFTER SITE HAS BECOME FULLY FLOODED AND REMEDIATION ACTION HAS COMMENCED. AUTOMATIC OPERATION WILL INCREASE THE AVAILABLE "ESCAPE TIME" FOR THE LEVEL BEING FLOODED.

* OUTLET MAY BE ADAPTED TO A LOUVERED OUTLET; THE LISTED MINIMUM DIMENSIONS WOULD APPLY TO THE BASE OF THE LOUVER.

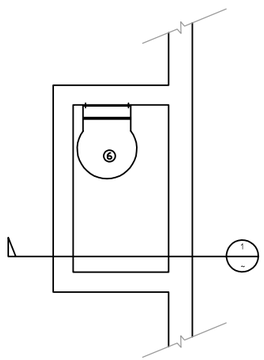
** FOUNDATION CONDITIONS OF PROJECT MAY VARY (STRIP FOOTINGS, PILES, RAFT SLAB, ECT.); REFER TO STRUCTURAL DESIGN. ADAPTATION OF CONDITIONS/REQUIREMENTS MAY BE REQUIRED.



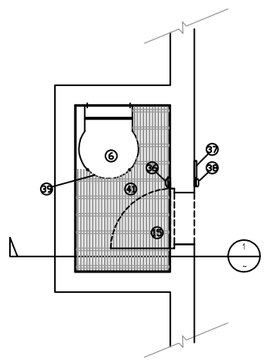
PUMP CHAMBER BASE



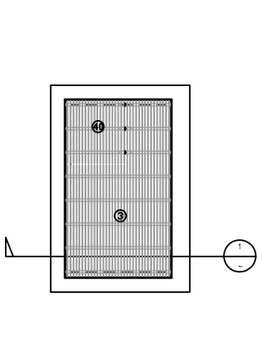
SLAB-ON-GRADE



SUSPENDED SLAB



SUSPENDED SLAB
ALTERNATE LEVEL ACCESS



EXIT GRATE