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. CODE REQUIREMENTS : PRIVATE SMIMMING FOOL AND SPAS MUST COMPLY WITH CHAPTER 424 & R4101 FLORIDA BUILDING CODE 2001

MECHANICAL REQUIREMENTS:

ALL PIPING EQUIPMENT AND MATERIALS USED IN THE PLUMBING SYSTEM OF SWIMMING POOLS AND SPAS THAT ARE BUILT IN PLACE SHALL CONFORM TO THE FLORIDA BUILDING CODE, PLUMBING 4242.3 & R4101.3 . ALL PIPING MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION STANDARDS.

ALL MATERIALS, PIPING, VALUES, EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS-SPAS OR FORTIONS THEREOF SHALL BE OF A TYPE COMPLYING WITH THE CODE OR OF A TYPE RECOMMENDED AND APPROYED BY A NATIONALLY RECOGNIZED TESTING AGENCY OR CONFORMING TO OTHER RECOGNIZED STANDARDS ACCEPTABLE TO ADMINISTRATIVE AUTHORITY.

4- ENGINEERING DESIGN :
DESIGN, CONSTRUCTION AND MORKMANSHIP SHALL BE IN COFORMITY MITH ANSINSPI B, 4, 5 AND 6 2003, PUBLISHED BY THE INTERNATIONAL AQUATICS
FOUNDATION OR OTHER ACCEPTED ENGINEERING PRACTICES.

TESTING AND CERTIFICATION : ALL POOL AND SPA SUCTION INLETS SHALL BE PROVIDED WITH A COVER THAT HAS BEEN TESTED AND ACCEPTED BY A RECOGNIZED TESTING FACILITY AND COMPLY WITH ANS/ASME A112,19,8M." SUCTION FITTINGS FOR USE IN SWIMMING POOLS, SPAS, HOT TUBS AND WHIRPOOL BATHTUB APPLIANCES". EXCEPTION: SURPACE SKIMMERS.

6- SAFETY NOTE : DO NOT USE OR OPERATE POOL OR SPA IF THE SUCTION INLET FITTING IS BROKEN, MISSING OR LOOSE.

I-WATER VELOCITY PER ANSI/APSP-7 2006 #4.4

WATER VELOCITY IN FIELD FABRICATED PIPING IS BASED ON THE MAX. SYSTEM FLOW RATE, MAX. WATER VELOCITY IN BRANCH PIPING (THE PIPING BETWEEN THE DRAINS) SHALL BE LIMITED TO 6 FEET PER SECOND /FPS WHEN ONE OF A FAIR IS BLOCKED. IN NORMAL OPERATION THEN, THE BRANCH SUCTION PIPING VELOCITY IS 3 FEET PER SECOND /FPS, ALL OTHER SUCTION PIPING VELOCITY IS 3 FEET PER SECOND /FPS, ALL OTHER SUCTION PIPING VELOCITY IS 3 FEET PER SECOND /FPS, ALL OTHER SUCTION PIPING VELOCITY IS 5 FALL BE 6 FPS FOR PUBLIC POOLS OR 8 FPS FOR RESIDENTIAL POOLS.

5-MAX. SYSTEM FLOW RATE PER ANSWAPSP-7 2006 #4.4.1
THE MAXIMUM SYSTEM FLOW RATE SHALL BE DETERMINED BY ONE OF THE FOLLOWING:
- TIPH CALCULATION FOR THE CIRCULATION SYSTEM OF EACH PUMP, OR

- SIMPLIFIED TOH CALCULATION, OR
- THE MAX, FLOW CAPACITY (DETERMINE FROM PUMP FLOW CURVE) OF THE NEW OR REPLACEMENT PUMP (WHICH SHALL BE LIMITED BY THE CRITERIA OF ANSWAPSP-T #4.4

IF 50, THE TOTAL DYNAMIC HEAD TOH CALCULATION SHALL BE REQUIRED TO DETERMINE IF THE SYSTEM IS ACCEPTABLE. USING TOH, DETERMINE NEW MAX FLOW RATE FROM PUMP CURVE, IF IT IS GREATER THAN DRAIN FLOW RATE OR 8 FPS SUCTION FLOW RATE OR 10 FPS DISCHARGE FLOW RATE, THE SYSTEM IS NOT ACCEPTABLE. IMPORTANT NOTE : IF THE MAX, PUMP FLOW RATE GREATER THAN DRAIN FLOW RATE OR 8 FPS SUCTION FLOW RATE OR 10 FPS DISCHARGE FLOW RATE, THEN THE "MAX, FLOW FROM THE PUMP CURVE" OPTION HAS FALLED.

- IF A VARIABLE SPEED PUMP IS USED, USE THE MAX. PUMP FLOW IN CALCULATIONS
- FOR SIDE DRAINS, USE APPROPRIATE SIDE MALL DRAIN FLOW AS PUBLISHED BY VIOLENGED FOR STORES
- IN-FLOOR SUCTION OUTET COVERGRATE MUST CONFIRM TO MOST RECENT EDITION OF ASMEIANS) A112.19.8 AND BE EMBOSSED MITH THAT EDITION
- PUMP, FILTER & HEATER MAKE AND MODEL CANNOT CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL MITHOUT SUBMITTING A REVISED FLAN AND THE CANNOT CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL MITHOUT SUBMITTING A REVISED FLAN AND THE CANNOT CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL MITHOUT SUBMITTING A REVISED FLAN AND THE CANNOT CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL MITHOUT SUBMITTING A REVISED FLAN AND THE CANNOT CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL MITHOUT SUBMITTING A REVISED FLAN AND THE CONTROL MITHOUT SUBMITTING A REVISED FLAN AND THE MOVED CLOSER TO POOL MITHOUT SUBMITTING A REVISED FLAN AND THE CONTROL MITHOUT SUBMITTEN AND THE CONTROL MITHOUT SUBMITTING A REVISED FLAN AND THE CONTROL MITHOUT SUBMITTEN AND THE CONTROL MITHOUT SUBMITT

- MIN, SYSTEM FLOW BASED ON MI, FLOW PER SKIMMER OF 35 GPM - SYSTEM FLOW RATE MUST NOT EXCEED APPROVED COVER FLOW RATES - CENTER TO CENTER DISTANCE BETWEEN THE SUCTION PIPE OUTLETS SHALL BE 36 INCH MIN. - CHANNEL TYPE (MITH 2 OR 3 OUTLETS IN ONE PORT) SHALL BE AT LEAST S' MIDE BY 31" LONG

4. PUMP:

PER 1842.7.1 STRAINER, POOL CIRCULATING PUMPS SHALL BE EQUIPPED ON THE INLET SIDE WITH AN APPROVED TYPE HAIR AND LINT STRAINER WHEN PER 1842.7.1 STRAINER, POOL CIRCULATING PUMPS SHALL BE COMPLETED IN ACCORDANCE MANUPS RECOMMEDATIONS, PER 424.2.1.3 CAPACITY:

PUMPS SHALL HAVE DESIGN CAPACITY AT THE FOLLOWING HEADS; 1) PRESSURE DIATOMACEOUS EARTH-A LEAST 60 FEET, 2) VACUUM D.E. 20 INCH VACUUM PUMPS SHALL HAVE DESIGN CAPACITY AT THE FOLLOWING HEADS; 1) PRESSURE DIATOMACEOUS EARTH-A LEAST 60 FEET, PER 424.21.5 PUMP IMPELLERS, ON THE SUCTION SIDE AND 40 FEET TOTAL HEAD, 3) RAPID SAND -AT LEAST 45 FEET, 4)HIGH RATE -AT LEAST 60 FEET, PER 424.21.5 PUMP IMPELLERS, SHAFT, MEAR RINGS AND 6 THER WORKING PARTS SHALL BE CORRISION RESISTANT MATERIALS.

10-CLEANER FITTINGS:

PER ANDIMOPI-5 9,12,10, THE VACUUM OR PRESSURE CLEANER FITTING(5) SHALL BE LOCATED IN AN ACCESSIBLE POSITION AT LEAST 6 INCHES AND NOT GREATER THAN 18 INCHES BELOW THE MINUMUM OPERATING WATER LEVEL, OR AS AN ATTACHMENT TO THE SKIMMER ALL CLEANER SUCTION INLETS SHALL BE PROTECTED BY AN APPROVED, PERMANENTLY INSTALLED, SELF CLOSING FLAPPER ASSEMBLY.

PER FEC 424.2.8.1 & R4101.8.1 VALVES SHALL BE MADE OF MATERIALS THAT ARE APPROVED IN THE FLORIDA BUILDING CODE, PLUMBING. VALVES LOCATED UNDER CONCRETE SLABS SHALL BE SET IN A PIT HAVING A LEAST DIMENSION OF FIVE PIPE DIAMETERS, MINIMUM 10 INCHES, FITTED WITH A SUITABLE COVER

11- WASTE MATER DISPOSAL:

THE FEC 424-21 OR REGION OFFICE OR INDIRECT CONNECTIONS CANNOT BE MADE TO EXISTING FACILITIES MITHOUT THE PRIOR APPROVAL OF THE ADMINISTRATIVE AUTHORITY.

19- WATER SERVICE:
PER FBC 424.2.4 & R4101.4 BACKFLOW PREVENTION DEVICE REQUIRED ON ALL POTABLE WATER SERVICE

ALL POOL PIPING SHALL BE INSPECTED AND APPROVED BEFORE COVER OR CONCEALMENT, IT SHALL BE TESTED ANDPROVED TIGHT UNDER A STATIC MATER OR AIR PRESSURE TEST OF NOT LESS THAN 35 PSI FOR 15 MINUTES, PER MANUFACTURER'S RECOMMENDATIONS, NO AIR TEST SHALL BE APPROVED FOR PVC PIPE AND FITTINGS. SECTION 424.2.12.1 & R4101.12.2 PRESSURE TESTS.

15- PARTER HEATING EQUIPMENT:

SWIMMING POOL, MATER HEATING EQUIPMENT SHALL CONFORM TO THE DESIGN CONSTRUCTION AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH SWIMMING POOL, MATER HEATING EQUIPMENT SHALL BEAR THE LABEL OF A RECOGNIZEDTESTING ACENCY, AND SHALL INCLUDE A CONSUBERATION OF COMBUSTION AIR, VENTING AND GAS SUPPLY REQUIREMENTS FOR WATER HEATERS SEC. 424.2.14.18 RA101.14.1 IT MUST CONTAIN A THERMOSTATIC OR HIGH PRESSURE LONTROL SWITCH SO THE POOL WATER DOES NOT EXCEED 104 DEGREES F. SEC. 424.2.14.4 & RA101.14.4 WATER HEATING EQUIPMENT SHALL BE INSTALLED WITH CONTROL SWITCH SO THE POOL WATER DOES NOT EXCEED 104 DEGREES F. SEC. 424.2.14.4 & RA101.14.4 WATER HEATING EQUIPMENT SHALL COMPLY WITH FLANGES OR UNION CONSECTIONS ADJACENT TO THE HEATER WATER HEATING EQUIPMENT SHALL COMPLY WITH FLANGES OR UNION CONSECTIONS ADJACENT TO THE HEATER WATER HEATING EQUIPMENT SHALL COMPLY WITH FEC. 412.1.4 HEATERS MUST HAVE AN INTERNAL CHECK VALE. PER FBC 13-61.1 ABC 2-3-2 THE FOOL AND SPA SHALL BE PROVIDED WITH A COVER TO REDUCE HEATEN SOME OF REQUIRED BY THE CITY)

GAS PIPING SHALL COMPLY WITH FBC, FUEL GAS SEC. 424.2.15 & R4101.15

17- ELECTRICAL :
POOLLOCATION AND ELECTRICAL MIRING AND EQUIPMENT SHALL COMPLY MITH THE NATIONAL ELECTRICAL CODE 2005, SPECIFICALLY SECTION 680

16-LADDERS AND STEPS: WHERE WATER DEPTH EXCEEDS 5 FEET, THERE SHALL BE PROVIDED WITH A LADDER OR STEPS INTHE SHALLOW END WHERE WATER EXCEEDS 4 INCHES. WHERE WATER DEPTH EXCEEDS 5 FEET, THERE SHALL BE LADDERS, STAIRS OR UNDERWATER BENCHESSINOMOUTS IN THE DEEP END.

14- FILTERS PER FBC 424.220 8 R4101.20 THE ENTIRE DESIGN OF WATCHED COMPONENTS SHALL HAVE SUFFICENT CAPACITY TO PROVIDE A COMPLETE TURNOVER OF POOL WATER IN 12 HOURS OR LESS.

20- POOL FITTINGS :

PER FBC 424.2.21 & R4101.21 POOL FITTINGS SHALL BE OF AN APPROYED TYPE AND DESIGN AS TO BE APPROPRIATE FOR THE SPECIFIC APPLICATION, PER FBC 424.2.13.2 LOINTS AND C CONNECTIONS, FBC PLUMBING SEC, 605.21, PURPLE PRIMER REQUIRED ON PYC PIPING

PER FBC 424.2.21.2 & R4101.21.4 SKIMMERS SHALL BE INSTALLED ON THE BASIS OF ONE PER 800.5F OF SURFACE AREA OR FRACTION THEREOF.
22. HYDROSTATIC RELIEF DEVICE:
PER FBC 424.2.21.4 & R4101.21.4 IN AREAS OF ANTICIPATED WATER TABLE, AN APPROVED HYDROSTATIC RELIEF DEVICE SHALL BE INSTALLED.
EXCEPTION IS PLASTIC LINER POOLS.
23. CONCRETE / STEEL:

CONCRETE IS TO BE A MIX DESIGNED IN ACCORDENCE WITH ASTA C.44 BY A RECOGNIZED TESTING LABORATORY TO ACHIEVE A STRENGTH OF 3000 PSI, AT 28 DAYS (UNLESS OTHERWISE NOTED) WITH A PLASTIC AND WORKABLE MIX PNEUMATICALLY APPLIED CONCRETE AND/OR SHOTCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304.224, RESPECTIVELY, ALL OTHER CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304.244, ACERTIFICATE OF MANUFACTURERS HIX AND STRENGTH IS TO BE PROVIDED, NO WATER IS TO BE ADDED AFTER TRUCK LEAVES PLANT WITHOUT APPROVAL OF ENGINEER PLANT CONTROL IS REQUIRED. MAXIMUM MIX TIME AT POINT OF DEPOSIT IS 90 MINUTES, CONCRETE WORK SHALL BE AS FER REQUIREMENTS AND RECOMMENDATIONS OF ACI 301-04, REINFORCING, DEFORMED STEEL BAYS SHALL BE AS SEADLE 60 (INLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST, REINFORCING, DEFORMED STEEL BAYS SHALL BE AS SEADLE 60 (INLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST, REINFORCING, DEFORMED STEEL BAYS SHALL BE AS SEADLE 60 (INLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST, REINFORCING, DEFORMED STEEL BAYS SHALL BE AS SEADLE 60 (INLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST, REINFORCING, DEFORMED STEEL BAYS SHALL BE AS SEADLE 60 (INLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST, REINFORCING, DEFORMED STEEL BAYS SHALL BE BELL BAYS SHALL BE AS SEADLE 60 (INLESS OTHERWISE NOTED). FOR REINFORCING CONCRETE (ACI 318-04). IN CASE OF CONFLICT, THE MORE CONSERVATIVE VALUE(S) SHALL BE USED

24- SOIL STATEMENT:
IN ACCORDANCE WITH FBC SECTION 1818, HYMZ BEARING CAPACITY OF SOIL; BASED UPON RATIONAL ANALYSIS AND KNOWN VALUES IN THE VICINITY, THE IN-PLACE BEARING CAPACITY OF THE SOIL BENEATH THE FOOL AND RELATED STRUCTURES SHOWN WITHIN THESE PLANS IS 2000 PSF AFTER EXCANATION AND COMPACTION IN ACCORDANCE WITH CURRENT EDITION OF THE SOIL BENEATH THE FOOL AND MICK, MARLOR OTHER ORGANIC SOILS BE DISCOVERED ON EXCANATION, THEY SHOULD BE REMOVED IN THEIR ENTIRETY. ALL CONSTRUCTION SHALL STOP AND THE ENGINEER OF RECORD SHALL BE CONTACTED TO CONDUCT AN INSPECTION, STRUCTURAL ELEMENTS ARE DESIGNED WITH A REQUIRED BEARING CAPACITY OF 2000 PSF, UNLESS

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25- POOL STAKING:

THIS DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR POOL CONSTRUCTION IN EASEMENT OR REQUIRED SETBACKS AREAS, PLOT PLANS NOT PREPARED FROM LEGAL SURVEYS OF

THE ENSTING LOT AND RESIDENCE ARE SO INDICATED. THE POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND ESTABLISH LOT LINES & LOCATION OF UTILITIES AT THE

SITE AND CONTACT THE H.C.E. IF DIFFERENT THAN INDICATED ON PLAN, MINIMUM CLEARENCE DIMENSIONS SHALL BE HELD AS REQUIRED BY THE LOCAL REGULATORY AGENCY.

26- EXISTING STRUCTURES:

THE POOL CONTRACTOR SHALL ALWAYS TAKE ALL PRECAUTIONS TO POOTECT EXISTING STRUCTURES FROM FAILURE BY SHEETING AND/OR SHORING OR OTHER

METHODS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE SAFETY OF EXISTING STRUCTURES.

IN CASE OF FOOTINGS UNDERNINING, CONTRACTOR SHALL POUR CONCRETE BETWEEN POOL AND FOOTING. TOP OF CONCRETE SHALL BE BOTTOM OF FOOTING, MIDTH OF

POURED CONCRETE SHALL BE FOOTING WIDTH AT A MINUMUM

27- PIPING:
PIPING 59HALL BE 5CH, 40 BEARING N5F APPROVAL PER FBC 2007 R4101, PIPING CAN BE (IF NEEDED) ENCASED IN THE CONCRETE OF THE POOL SHELL 28- CONCRETE SLABS :

ALL POOL EQUIPMENT SLABS SHALL COMPLY WITH SECTION 1820.3 OF FBC 2007

29- HANDHOLD :
ANSI-NSPI-S ARTICLE XV SECTION 15.13: A SECURED ROPE OR CERAMIC HANDHOLDS MUST BE PLACED AT OR NO MORE THAN 12" ABOVE THE NORMAL MATERLINE OF THE POOL

30- POWER LINE RHEAD ELECTRIC LINES MUST BE LOCATED 10 FEET AND UNDERGROUND ELECTRIC LINES MUST BE LOCATED 5 FEET FROM POOL WATER

51- BACKFILL & COMPACTION AREAS TO PROPER ELEVATION, IF NEEDED USING CLEAN GRANULAR MATERIAL FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS AND PLACED IN BACKFILL CONSTRUCTION AREAS TO PROPER ELEVATION, IF NEEDED TO 95% OF THE ASTM D-1957 MODIFIED PROCTOR METHOD. BACKFILLING SHALL COMMENCE ONLY FOLLOWING LIFTS NOT TO EXCELD 12 INCHES IN THICKNESS AND COMPACTED TO 95% OF THE ASTM D-1957 MODIFIED PROCTON SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. REMOVAL FROM EXCAVATION OF ALEXEM MODIFIED TO SOIL BEING COMPACTED. MODIFIED AND ELECTRICAL FROM EXCAVATION OF THAT WHICH WILL READILY MODIFIED OF THAT PROPERTY OF THAT WHICH WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. ENSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS HAS BEEN MAINTAINED PRIOR TO PLACING NEW LAYERS. AFTER INSTALLATION OF ANY PLUMBING AND ELECTRICAL FIFING DISTURBED AREAS SHALL BE RECOMPACTED.

32. ENTRAPMENT TESTING AND CERTIFICATION:
ALL POOL AND SPA SUCTION INLETS SHALL BE PROVIDED WITH A COVER THAT
ANSIASME A112.19.8 "SUCTIONETTINGS FOR USE IN SWIMMING POOLS, SPAS, I T HAS BEEN TESTED AND ACCEPTED BY A RECOGNIZED TESTING FACILITY AND COMPLY WITH HOT TUBS AND WHIRLPOOL BATHTUB APPLIANCES." EXCEPTION : BURFACE SKIMMERS.

33- WARNING

94- NOTE 1:

TO EMPTY POOL AFTER CONSTRUCTION, FOR REPAIRS OR ANY OTHER REASON, THE HYDROSTATIC UPLIFT PRESSURES BENEATH THE POOL MUST BE ELIMINATED TO PREVENT THE FOOL FROM FLOATING UPYARD, THE OWNER MUST CONSULT A POOL CONTRACTOR OR POOL REPAIR CONTRACTOR EXPERIENCED IN ELIMINATING UPLIFT PRESSURES.

THIS PLAN IS NOT TRANSFERABLE FROM ONE CONTRACTOR TO ANOTHER

95- NOTE 2: UNLESS OTHERWISE SPECIFIED, ALL DETAILS SHOWN ARE NOT TO SCALE.

36- NOTE 3:
POOL WALL SHALL BE REINFORCED WITH #3@6" O.C.E.M. WHERE LESS THAN 5 FEET FROM ANY EXISTING STRUCTURE OR PATIO (SEE SHEETING & SHORING DETAIL)

NOTE 4 :

38- NOTE 5:

THERE IS ALVAYS THE POSSIBILITY THAT CONDITIONS IN THE FIELD MAY BE DIFFERENT FROM THOSE INDICATED IN AN ENGINEERING PERMIT DRAWINGS; THEREFORE, IF DIFFERENT CONDITIONS ARE ENCOUNTERED BEFORE OR DURING CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED TO REVIEW THE FINDINGS AND MAKE RECOMMENDATIONS AS

94. NOTE 6:

STRUCTURAL ENGINEER MUST CERTIFY OR DESIGN REPLACEMENT ANCHOR AND DEADMAN SYSTEM FOR SEAVALL MITH IN 15 FEET OF POOL SEAVALL ANCHOR SYSTEM INSTALLATION MUST BE COMPLETE PRIOR TO START OF POOL CONSTRUCTION.

41- BONDING 40- NOTE T : NO DIVING BOARD AND NO DIVING IS ALLOW ON ANY POOL LESS THAN 8 FEET DEEP AND SPECIFIALLY DESIGN FOR DIVING

CONTINUOUS SINGLE 45 ANG BARE COPPER WIRE SHALL BE BURIED TO A MIN. 4" TO 6" BELOW SUBGRADE, 18" TO 24" FROM INSIDE THE WALL OF SWIMMING POOL-SPA AROUND THE SWIMMING POOL-SPA PERIMETER, AND SHALL BE CONNECTED TO THE POOL STEEL REINFORCEMENT AT A MIN. 4 DIFFERENT LOCATIONS, EQUALLY SPACED,

42- NOTE 6:
IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE THE ENGINEER WITH A
REPRESENTS THE EXISTING FIELD CONDITIONS, I.E. ADDITIONS, TREES, AC F AN ACCURATE SURVEY AND DRAWINGS THAT PADS, MALKWAYS, ETC.



