CONDUCT	ORS:	PLUMBING:	:
Α.	WIRES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL SPLICES SHALL BE MADE IN JUNCTION, PULL, OR OUTLET BOXES. ALL WIRE SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR OTHER PROTECTIVE COVER SANCTIONED BY CODES.	А. В. С.	PROVIDE AN APPROVED WATER HAMMER ARRESTOR FO ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED I PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES
В. С.	CONDUCTORS FOR LIGHTING AND POWER SHALL BE COPPER, MINIMUM NO. 12 A.W.G., 600 VOLT. NO. 10 GAUGE AND SMALLER CONDUCTORS SHALL BE TYPE THWN (WET LOCATIONS) OR THHN (DRY LOCATIONS), SOLID CONDUCTOR, UNLESS OTHERWISE INDICATED.	D.	PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED
D. E.	NO. 8 GAUGE AND LARGER CONDUCTORS SHALL BE TYPE THWN (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED, UNLESS OTHERWISE INDICATED. SERVICE ENTRANCE AND PANEL FEEDER CONDUCTORS, NO. 3 GAUGE AND LARGER SHALL BE TYPE	E. 1)	ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHA INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FAL
WIRING DE	XHHW-2 (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED COPPER, UNLESS OTHERWISE INDICATED.	2) PIPING:	INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL.
A. I) 2) B. C. D. E. BOXES:	 WALL SWITCHES SHALL BE SPECIFICATION GRADE, QUIET TYPE, FLUSH TOGGLE SWITCH, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES. SINGLE POLE: HUBBELL #CS I 22 I -X, OR EQUAL. THREE WAY: HUBBELL #CS I 22 3-X, OR EQUAL. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX, GROUNDING, THREE-WIRE TYPE, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES. HUBBELL #CR5352-X, OR EQUAL. GROUND FAULT INTERRUPTER RECEPTACLES (GFI) SHALL BE HUBBELL #GF20-XL. DEVICE COVER PLATES SHALL BE AS HEREINBEFORE SPECIFIED. ISOLATED GROUND RECEPTACLES (IG) SHALL BE HUBBELL #CR5352IG, ORANGE COLOR. DEVICE COVER PLATES SHALL BE AS HEREINBEFORE SPECIFIED. RECEPTACLES OUTSIDE BUILDING AND WHERE NOTED AS WEATHERPROOF, SHALL BE LISTED 'WEATHERRESISTANT' HUBBEL #GFTR20-X OR EQUAL AND SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE WHICH SHALL BE INTERMATIC #WP I 0 I OMXD OR #WP I 0 I OHMXD DIECAST METAL WEATHERPROOF RECEPTACLE COVER SHALL BE WEATHER PROOF RATED WHILE IN USE. 	A. DOMEST	 IC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVE 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88. a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 /4 b)MECHANICAL PRESS COPPER FITTINGS FOR USE IN PI ASME B16.51, or ASME B16.18. MECHANICAL PRESS COF ASME B16.51. 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE T REQUIREMENTS OF ASTM F876 AND MEET THE STANDAN RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANC a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSI LEAD-FREE STANDARDS AND MUST BE MARKED WITH "F MARKING. ASTM F2023 FOR USE WITH CHLORINATED W/ b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FIT INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS A INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPI
	PANELBUARUS:		a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACHb) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACHc) TYPES:
DISCONNE	CTS: DISCONNECTS SHALL BE EXTERNALLY OPERATED, QUICK-MAKE, QUICK-BREAK, SAFETY, WITH PROVISIONS FOR PAD LOCKING. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE PROVIDED AS INDICATED. INDOOR SWITCHES SHALL BE NEMA I AND OUTDOOR SWITCHES SHALL BE NEMA 3R, UNLESS INDICATED OTHERWISE.		 GATE VALVE: JOMAR T/S-301G OR EQUAL. GLOBE VALVE: JOMAR TGG OR EQUAL. BALL VALVE: JOMAR JP100PxP OR EQUAL. UL842, CSA 3371-12 & 3371-92, FM, BALL VALVE: JOMAR T-100NE OR EQUAL.
10513:	FUSES PROTECTING CIRCUIT BREAKER PANELS SHALL BE CURRENT LIMITING U.L. CLASS RK-1 FUSES WITH 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE SILVER FOR RATINGS ABOVE 60 AMPERES. ALL OTHER FUSES SHALL BE U.L. CLASS RK-5. DUAL-ELEMENT WITH A MINIMUM TIME-DELAY OF 10		
	SECONDS AT 500% RATING. FUSES SHALL HAVE CURRENT-LIMITING SHORT-CIRCUIT LINKS AND 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE COPPER.		
LIGHT FIXTI	URES: WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES SHALL BE A MINIMUM OF I 2 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS. ALL FIXTURES SHALL CARRY UL AND ETL LABELS.		
	PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. INTERIOR PARTITIONS: I 6 GAGE GALVANIZED STEEL, PACK BETWEEN CONDUIT AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WEATHERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.		
GROUNDIN	IG: GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 250, AND ANY LOCAL REQUIREMENTS. INSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED. PROVIDE BONDING JUMPER INSIDE ALL FLEXIBLE CONDUIT. MC CABLE SHALL CONSIST OF INTERLOCK ARMORED CABLE MADE OF THREE OR FOUR TYPE THHN SOLID (#8 AWG AND LARGER MAY BE STRANDED) COPPER CONDUCTORS RATED 90°C AT GOO VOLTS, 90 DEG. C FOR DRY LOCATIONS AND 75 DEG. C FOR WET LOCATIONS. ARMORED WITH SPIRALLY WRAPPED INTERLOCKED ARMOR OF ALUMINUM OR GALVANIZED CABLES SHALL BE TESTED IN ACCORDANCE WITH UL STANDARD I 569 FOR TYPE MC CABLE AND RATED CONDUCTOR, SUITABLE FILLERS, AND WRAPPED IN BINDER TAPE. THE ASSEMBLY SHALL BE STEEL.		
MC CABLE	THE THREE CONDUCTORS SHALL BE TWISTED TOGETHER WITH THE COPPER GROUNDING : MC CABLE SHALL CONSIST OF INTERLOCK ARMORED CABLE MADE OF THREE OR FOUR TYPE. FOR DRY LOCATIONS		
	THE CADLE SHALL CONSIST OF INTERLOCK ARMORED CADLE MADE OF THREE OR FOOR THE FOR DRY LOCATIONS THEN SOLID (#8 AWG AND LARGER MAY BE STRANDED) COPPER CONDUCTORS RATED 90°C FOR DRY LOCATIONS, WITH NYLON OR EQUIVALENT UL LISTED JACKET, PER UL STANDARD 83 THE THREE CONDUCTORS SHALL BE TWISTED TOGETHER WITH THE COPPER GROUNDING CONDUCTOR, SUITABLE FILLERS, AND WRAPPED IN BINDER TAPE. THE ASSEMBLY SHALL BE ARMORED WITH SPIRALLY WRAPPED INTERLOCKED ARMOR OF ALUMINUM OR GALVANIZED STEEL	,	

- E VALVE: JOMAR TGG OR EQUAL. ALVE: JOMAR JP100PxP OR EQUAL SA 3371-12 & 3371-92, FM, VALVE: JOMAR T-100NE OR EQUAL.

	REMOI	DELING WORK:	
OR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER.	Α.	DEMOLITION: DISCONNECT, DEMOLISH AND REMOVE ABANDONED ELECTRICAL MATERIALS AND EQUIPMENT	
BRASS PIPE, NO FERROUS PIPE.		INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN.	
S AND TRAPS.	В.	EQUIPMENT TO BE SALVAGED:	
)	DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED AND	
CONNECTIONS TO MATCH THE PIPE SYSTEM IN		SALVAGED. DELIVER EQUIPMENT TO THE LOCATION DESIGNATED BY THE OWNER FOR STORAGE.	
D).	2)	ALL MATERIALS AND EQUIPMENT DESIGNATED TO BE REUSED OR RELOCATED SHALL BE CAREFULLY	
		REMOVED, AND STORED UNTIL NEEDED FOR REMODELING WORK. ALL ITEMS SHALL BE RESTORED TO	
ALL BE INSTALLED WITH THE FOLLOWING SLOPES.		"LIKE NEW" CONDITION WITH RUST OR CORROSION REMOVED, SURFACE PAINT TOUCHED UP OR	
L.		REPAINTED AS REQUIRED TO MATCH NEW CONSTRUCTION, AND THOROUGHLY CLEANED AND INSPECTED.	
		ANY ITEMS WHICH BECOME DAMAGED BEYOND REPAIR AS A RESULT OF CONSTRUCTION OR DEMOLITION	
		ACTIVITY SHALL BE REPLACED WITH NEW MATERIAL EQUIVALENT IN EVERY RESPECT.	
	C.	DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND	
EGROUND).		EQUIPMENT NOT INDICATED TO BE SALVAGED.	
	D.	PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE	
ALLOY C12200. ANSI B16.22. MSS SP-104.		BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE	
LUMBING OR MECHANICAL APPLICATIONS. ASME B16.22,		PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE.	
PPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR	E.	PROVIDE ALL ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED FOR THE PROPER INSTALLATION	
		AND OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, INTEGRATING THE NEW AND EXISTING AREAS.	
UBING SHALL BE MANUFACTURED TO THE		LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND	
RD GRADE HYDROSTATIC PRESSURE		SERVING OTHER AREAS OUTSIDE THE REMODELING LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE	
CE WITH TR-4/03.		REMODELING LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR	
F372 STANDARDS FOR POTABLE WATER SAFETY AND		AFFECTED AREAS.	
PW-G", "NSF-61-G" OR OTHER NSF-APPROVED)	ABANDONED CONDUIT SHALL HAVE WIRE REMOVED AND SHALL BE CAPPED. ABANDONED OUTLETS IN	
ATER.		WALLS OR PARTITIONS SHALL HAVE DEVICES AND WIRE REMOVED, AND SHALL BE COVERED.	
TINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S			
RE NOMINAL COPPER PIPE SIZE,			
PER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.			
PLUMBING FIXTURE.			
ACH APPLIANCE OR MECHANICAL EQUIPMENT.			_
LEAD-FREE NSF 61, ANSI B1.20.1.)
COMPACT LEAD FREE BRASS BALL VALVE.			
			-
UL042, FIVI, USA, NSF 01-8, NISS SF-11U			-







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

CASEWORK DETAILS