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DUNKIN'

dunkin'
 STORE #357281
 JEFFERSON DAVIS HWY
 DUMFRIES, VA

REVISION		
No.	DATE	DESCRIPTION

DWG DATE: 06-29-2018
 DRAWN BY: STAFF
 PROJECT No.: 17157

DWG TITLE:
WATER FILTRATION SYSTEM DETAIL

SHEET No.
P-4

DUNKIN' DONUTS WATER SPECIFICATION & TREATMENT REQUIREMENTS					
CHARACTERISTIC	UNITS	DUNKIN' DONUTS SPECIFICATION		WATER TREATMENT SOLUTIONS	
		TYPICAL RANGE	LIMIT	A) WATER FILTER	B) REVERSE OSMOSIS
HARDNESS	PPM	80-120	< 200	> 200	NA
ALKALINITY	PPM	70-110	0-150	> 150	NA
TOTAL DISSOLVED SOLIDS (TDS)	PPM	100-175	< 250	NA	> 250
pH		6.7-7.4	6.7-7.4	< 6.7 OR > 7.4	NA
SODIUM	PPM	0-20	< 40	> 40	NA
CHLORIDE	PPM	0	< 40	> 40	NA
CHLORAMINES	PPM	0	0	> 0	NA
CHLORINE	PPM	0	0	> 0	NA
TURBIDITY	NTU	0-1	< 1	> 1	NA
PRESSURE	PSI	> 65 PSI	BOOSTER PUMP IS REQUIRED		

■ IN ADDITION TO THE ABOVE SPECIFICATIONS, WATER MUST MEET NSF42 AND NSF53 STANDARDS
 PPM = PARTS PER MILLION
 100 PPM = 5.8 GRAINS PER GALLON

NOTES:
 1) PRIOR TO CONSTRUCTION, GC SHALL PROVIDE A WATER QUALITY TEST, PERFORMED IN THE CITY IN WHICH THE STORE WILL BE RECEIVING WATER. TESTING TO BE DONE ON A LIVE LINE CONNECTED TO THE SAME SUPPLY LINE FEEDING THE FUTURE STORE.
 2) UPON RECEIPT OF THE WATER QUALITY TEST, THE GC SHALL PROVIDE A FILTRATION SYSTEM OR RO SYSTEM THAT WILL TREAT THE INCOMING WATER TO ALLOW IT TO MEET THE REQUIREMENTS IN THE TABLE ABOVE.
 3) UPON COMPLETE OF CONSTRUCTION, GC SHALL SUBMIT A SECOND WATER QUALITY TEST TAKEN FROM A TREATED WATER OUTLET TO VERIFY THE PROPER WATER QUALITY IS BEING ACHIEVED.

SYMBOL LEGEND	
DESCRIPTION	SYMBOL
COLD WATER PIPING (UNFILTERED)	CW
FILTERED WATER	FW
RO WATER	RO
BALL VALVE	BV
UNION	U
STRAINER	S
CHECK VALVE	CV

- UTILITY WATER CONNECTIONS**
 - HOP SINK - HAND SINKS
 - 3-CDMP SINK - LAVATORY
- UTILITY WATER CONNECTIONS**
 - RESTROOMS - SILL COCKS
 - 3-CDMP SINK - IRRIGATION
 - DIPPER WELLS - HAND SINKS
 - HOSE BIBB - COFFEE SPRAYERS
 - CARBONATOR (OPTIONAL)

SERVICE ENTRANCE NOTE:
 CW FROM INCOMING WATER SERVICE

OPTIONAL BOOSTER PUMP
 MCANN'S: 16-2173-DD
 WATER BOOSTER
 W/ INTEGRAL PRESSURE GAUGE & BYPASS. VERIFY PUMP SPEC WITH NATIONAL ACCOUNTS

WATER QUALITY INSTALLATION CHECKLIST:	
FRONT OF HOUSE (FOH)	
<input type="checkbox"/>	COFFEE EQUIPMENT (FRONT LINE)
<input type="checkbox"/>	COFFEE EQUIPMENT (DRIVE THRU)
<input type="checkbox"/>	WATER SPRAYERS
<input type="checkbox"/>	ESPRESSO
<input type="checkbox"/>	HOT CHOCOLATE
<input type="checkbox"/>	ICED COFFEE / TEA
<input type="checkbox"/>	ISLAND OASIS
BACK OF HOUSE (BOH)	
<input type="checkbox"/>	ICE MAKERS (IN RO SYSTEM)
<input type="checkbox"/>	BASKET
<input type="checkbox"/>	NETT
<input type="checkbox"/>	ADAMATIC
<input type="checkbox"/>	PROC.

ICE MAKER NOTE:
 RO WATER SHALL NEVER BE CONNECTED TO THE ICE MACHINE.

ICE MAKER FILTER
 3M MODEL # ICE-160-S
 PART NO: 56163-03
 VERIFY ICE MAKER FILTER SPEC WITH NATIONAL ACCOUNTS

RO SYSTEM NOTE:
 A WATER QUALITY TEST SHALL BE PERFORMED TO DETERMINE IF RO SYSTEM IS NEEDED. RO SYSTEM IS REQUIRED IF TDS > 300 PPM

IMPORTANT NOTE:
 COPPER PIPE CANNOT BE USED DOWNSTREAM ON AN RO SYSTEM

REVERSE OSMOSIS SYSTEM
 W/ AUTOMATIC BYPASS
 3M: TFS450-40 R.O.S.
 VERIFY RO SYSTEM SPEC WITH NATIONAL ACCOUNTS

REVERSE OSMOSIS TANK STORAGE / BLADDER TANKS
 ** STORAGE TANK NOTE:
 IF COFFEE USAGE > 250 GAL PER DAY A SECOND TANK WILL BE REQUIRED. COORDINATE STORAGE TANK SIZE AND QUANTITY REQUIREMENTS WITH VENDOR AND NATIONAL ACCOUNTS.

FOH EQUIPMENT LAYOUT TYPICAL FOR ALL COMBOS W/ DUNKIN' DONUTS PRESENT AND AT ALL DUNKIN' DONUTS INDIVIDUAL STORES. QUANTITY & TYPES OF EQUIPMENT MAY VARY BASED ON DUNKIN' DONUTS FIXTURE LAYOUT.

SEE 3M RO INSTALLATION GUIDELINES ON THE NATIONAL ACCOUNTS PORTION OF THE DBI CONSTRUCTION EXTRANET.

SEPARATE PURCHASE OF A MCANN'S BOOSTER PUMP IS REQUIRED IN ALL STORES WITH TWO EXCEPTIONS:
 1. STORES INSTALLING AN EVERPURE RO SYSTEM ARE NOT REQUIRED TO PURCHASE THE PUMP, AS THERE IS A BOOSTER PUMP INTEGRAL TO EVERPURE'S SYSTEM.
 2. STORES WITH AN INCOMING WATER PRESSURE DOCUMENTED TO BE GREATER THAN 65 P.S.I. ARE NOT REQUIRED TO HAVE A BOOSTER PUMP INSTALLED.

BOH EQUIPMENT LAYOUT TYPICAL FOR ALL COMBOS W/ DUNKIN' DONUTS PRESENT AND AT ALL DUNKIN' DONUTS INDIVIDUAL STORES. QUANTITY & TYPES OF EQUIPMENT MAY VARY BASED ON DUNKIN' DONUTS FIXTURE LAYOUT.

NOTE: OVEN IS OPTIONAL IN THE SUPPORT AREA.
 MUST PROVIDE A PRESSURE REDUCING VALVE, PRESSURE GAUGE & SHUT-OFF VALVE AT PLEMBING CONNECTION TO ADAMATIC OVEN (TYP.)

