FRAMELESS HARMONIC CASCADE® SERIES

Large Features - 12' Wide by 16' Tall Minimum Dimensions

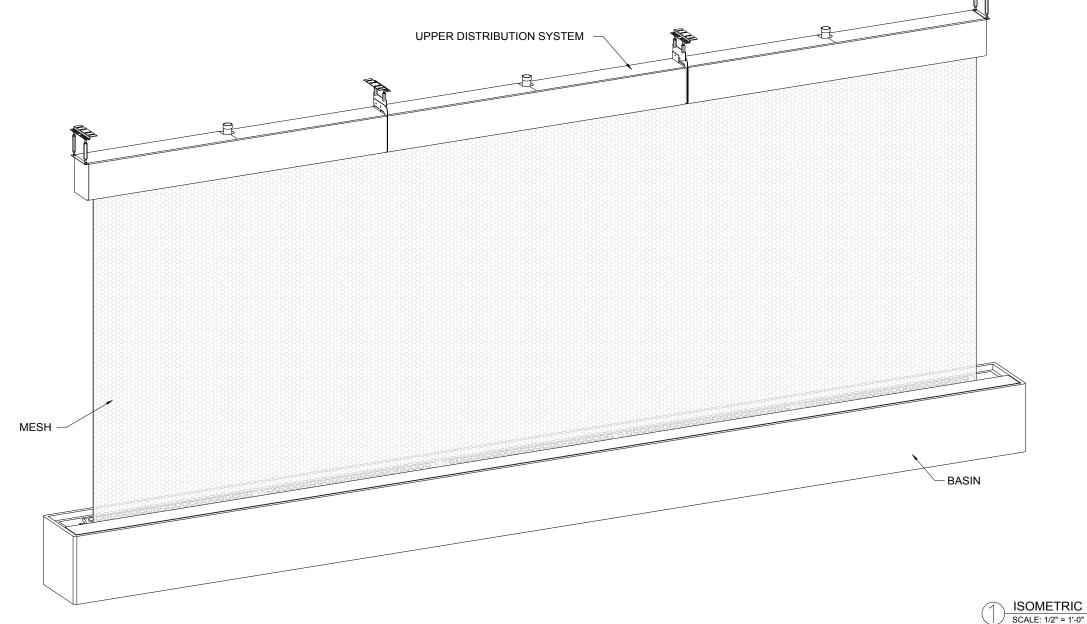
DESIGN CONSIDERATIONS -

- MINIMUM DIMENSIONS OF A LARGE FEATURE ARE 12 FEET WIDE BY 16 FEET TALL.
- STAINLESS STEEL MESH MAY BE A MAXIMUM OF 50' WIDE AND ANY HEIGHT (NO MAXIMUM) WITHOUT SEAM, AS ONE CONTINUOUS PANEL.
- OPEN POOL (BY OTHERS) MAY BE PROVIDED IN LIEU OF A CLOSED BASIN DESIGN.
- BASIN/OPEN POOL MAY BE INSTALLED BELOW GRADE, ABOVE GRADE, BUILT INTO SURROUNDING CASEWORK, ETC.
- UPPER DISTRIBUTION SYSTEM MAY BE CONCEALED BEHIND A SOFFIT, FASCIA, DROP CEILING, ETC.
- EQUIPMENT SPECS AND PIPE SIZES VARY AND WILL BE DETERMINED PER JOB.

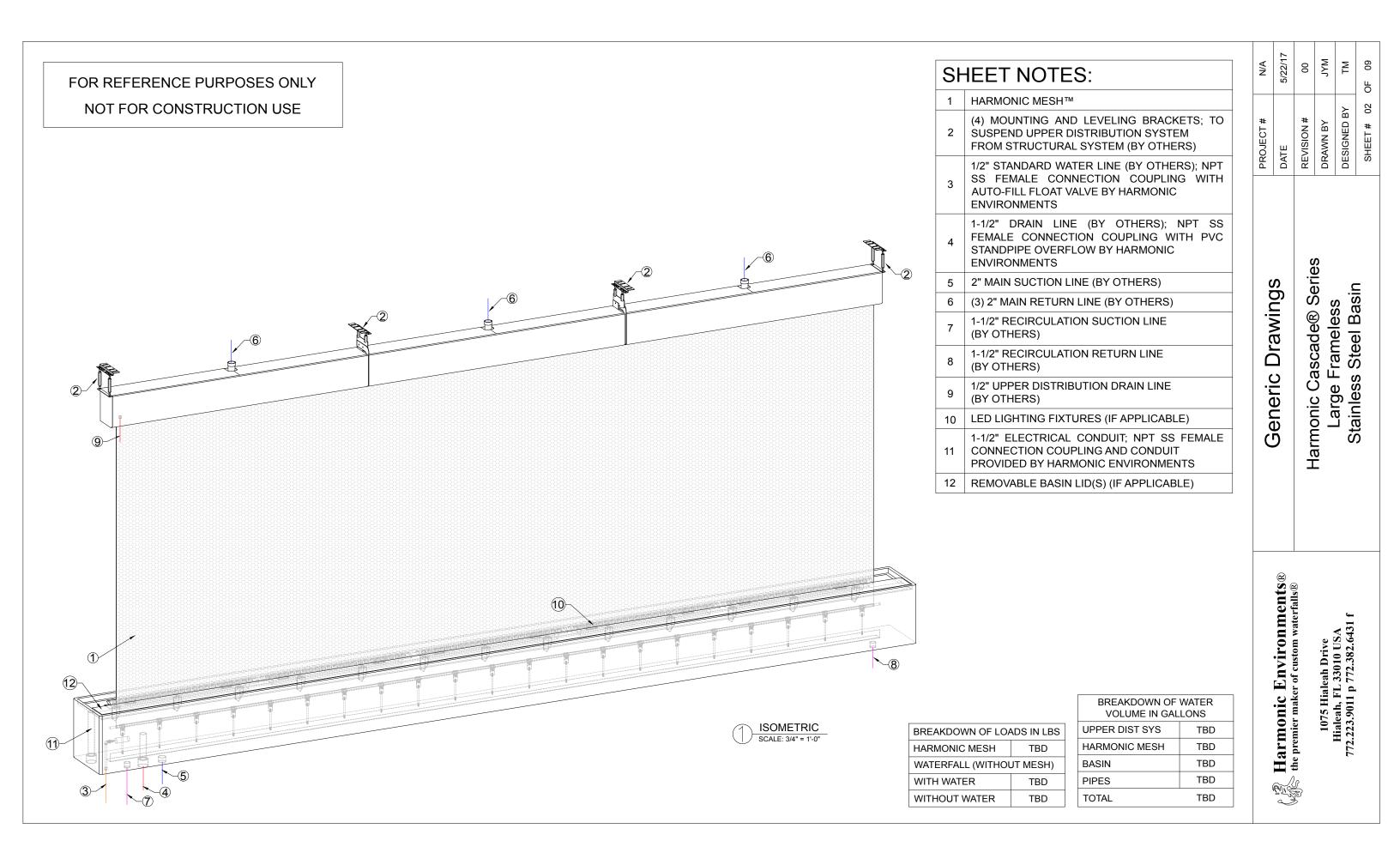
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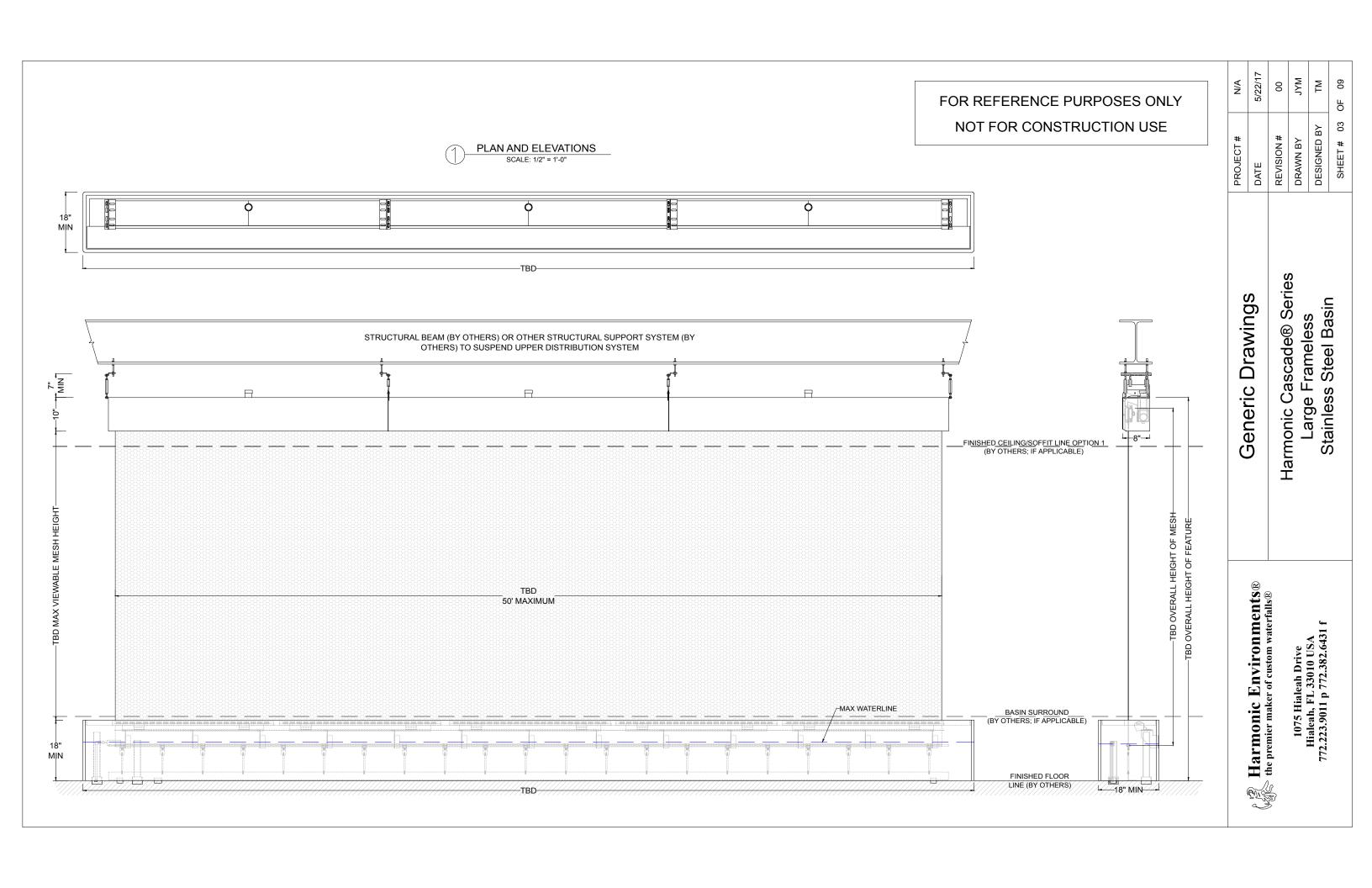
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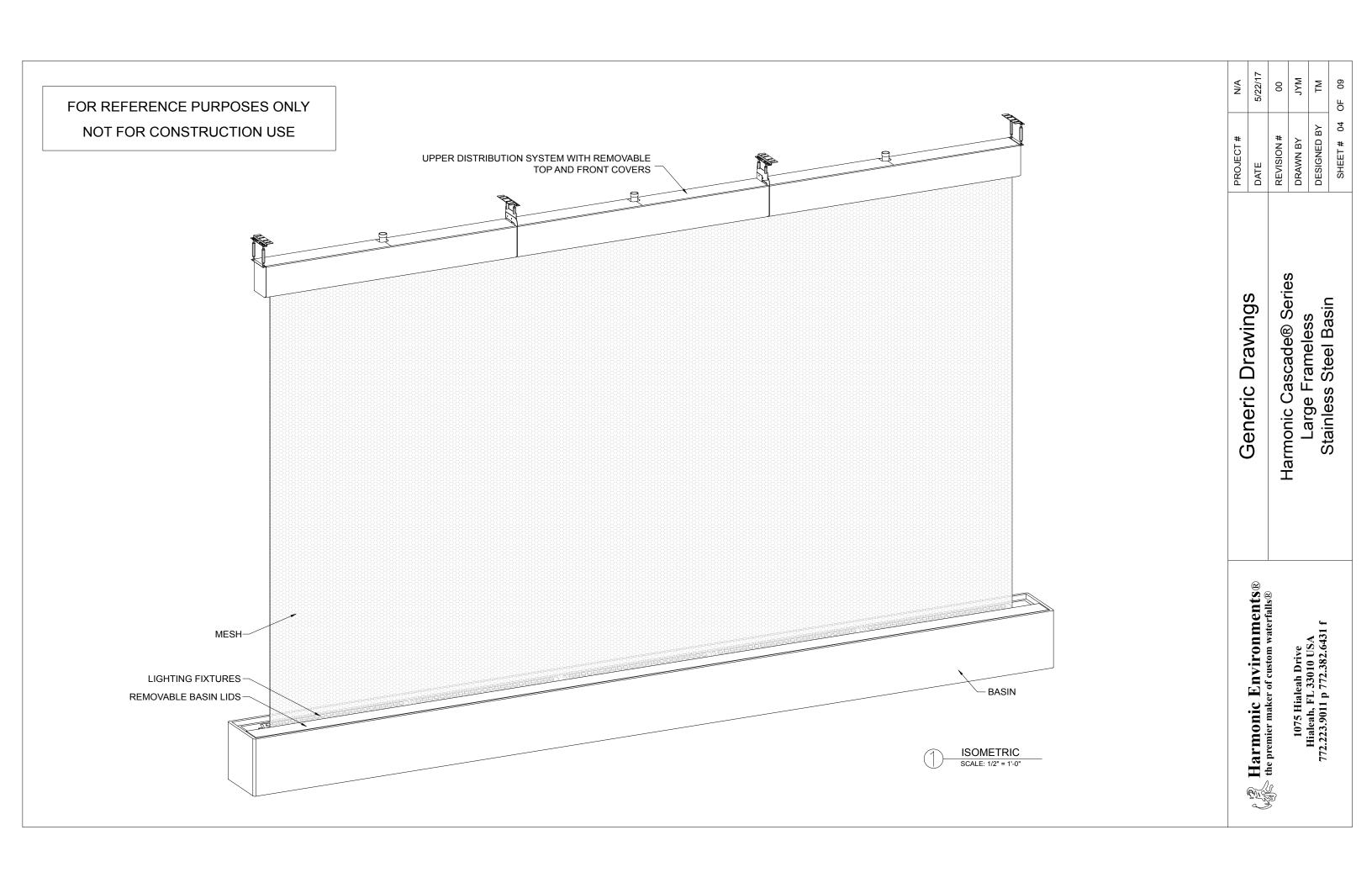
Drawings

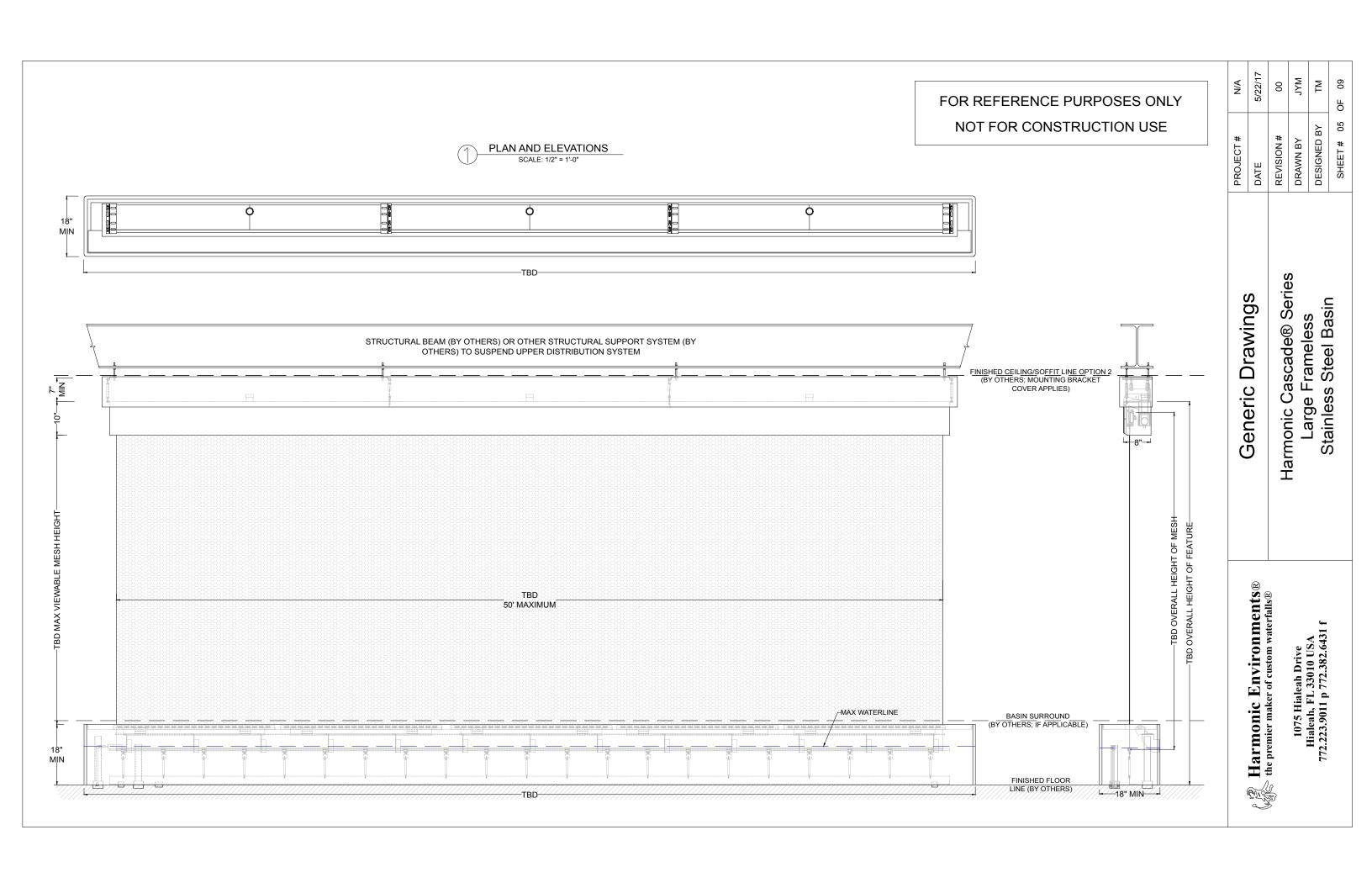


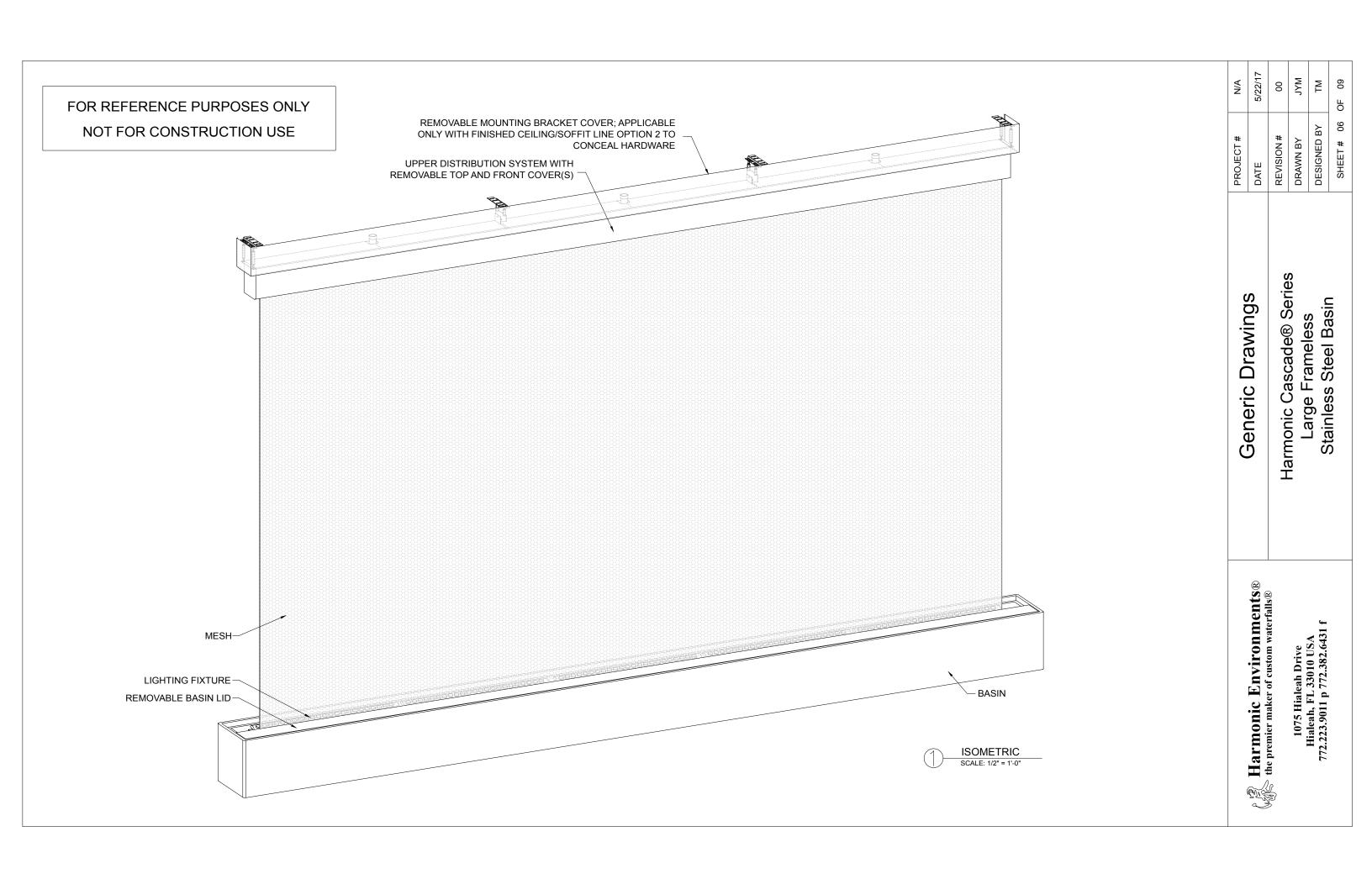
® Generic Drawings	Harmonic Cascade® Series Large Frameless Stainless Steel Basin
armonic Environments®	1075 Hialeah Drive Hialeah, FL 33010 USA 772.223.9011 p 772.382.6431 f





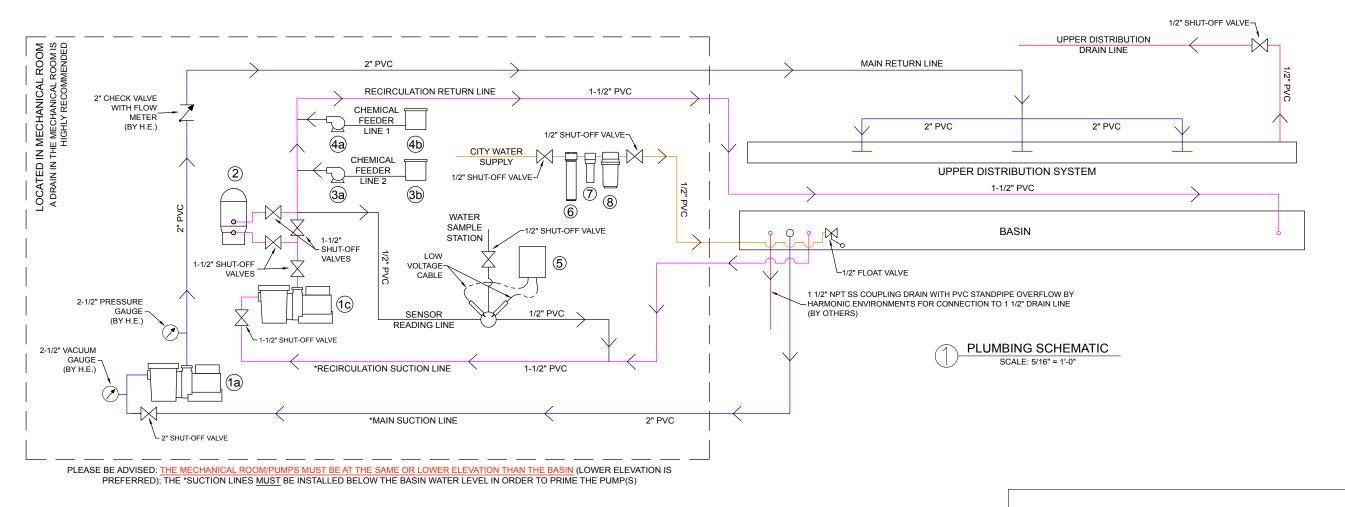






SH	IEET NOTES:	
1a	MAIN PUMP Model Number: TBD Design Flow Rate: 220 GPM @ 105 ft of head	Power: 208-230/460V,3HP,3Ph,9.5-9.4/4.7A,50/60Hz
1c	RECIRCULATION PUMP Model Number: TBD Design Flow Rate: 190 GPM @ 90 ft of head	Power: 208-230/460V,2HP,3Ph,7.1-7.2/3.8A,50/60Hz
2	FILTER Product Number: TBD Design Flow Rate: 56 GPM	Effective Filtration Area: 150 ft ²
3a	UTILITY PUMP #1 Product Number: TBD	Power: 120V,1.7A,50/60Hz
3 b	CHEMICAL VAT #1	

4 a	UTILITY PUMP #2 Product Number: TBD	Power: 120V,1.7A,50/60Hz		
4 b	CHEMICAL VAT #2			
5	CONTROL PANEL AND PROBE TESTER ASSEMBLY Product Number: TBD Power: 120V/240V,9.25A,50/60Hz			
6	WATER CONDITIONER FILTER Product Number: TBD	Design Flow Rate: 15 GPM		
7	PRE FILTER Product Number: TBD	Design Flow Rate: 6 GPM		
8	BIOLOGICAL FILTER Product Number: TBD	Design Flow Rate: 25 GPM		



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REVISION# DRAWN BY SHEET # Harmonic Cascade® Series Large Frameless Stainless Steel Basin Generic Drawings

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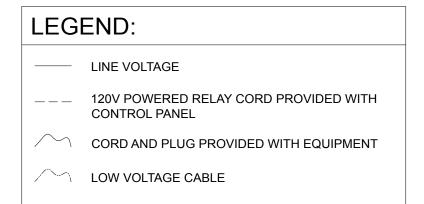
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Harmonic Environments® the premier maker of custom waterfalls® 1075 Hialeah Drive Hialeah, FL 33010 USA 772.223.9011 p 772.382.6431 f

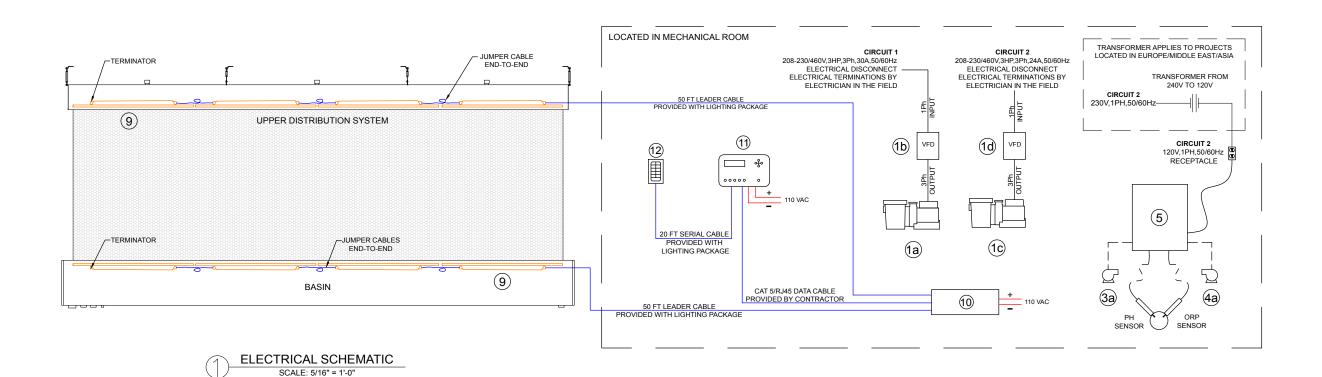
SHEET NOTES: LABELS CORRESPOND WITH PLUMBING DON PREVIOUS SHEET			
CIRCUIT 1 - 230V,1Ph,30A circuit,50/60Hz (EXAMPLE; MAY VARY)			
	PUMP CONTROL PANEL		
1 _b	Product Number: TBD	Input: 208/230V,3HP,1Ph,max 24A,50/60Hz	
	Max Input Amp: 24 amp	Output: 230V,3HP,3Ph,50/60Hz	
	MAIN PUMP		
1a	Model Number: TBD Design Flow Rate: 220 GPM @ 105 ft of hea	Power: 208-230/460V,3HP,3Ph,9.5-9.4/4.7A,50/60Hz ad	
	Design Flow Rate. 220 GPM @ 105 it of flea	au	

CIRCUIT 2 - 120V,45A circuit,50/60Hz (EXAMPLE; MAY VARY)					
1 d	PUMP CONTROL PANEL Product Number: TBD Max Input Amp: 24 amp	Input: 208/230V,2HP,1Ph,max 17.8A,50/60Hz Output: 208/230V,2HP,3Ph,max 7.5A,50/60Hz			
1c	RECIRCULATION PUMP Model Number: TBD Design Flow Rate: 190 GPM @ 90 ft of head	Power: 208-230/460V,2HP,3Ph,7.1-7.2/3.8A,50/60Hz			
3a	UTILITY PUMP #1 Product Number: TBD	Power: 120V,1.7A,50/60Hz			
4a	UTILITY PUMP #2 Product Number: TBD	Power: 120V,1.7A,50/60Hz			
5	CONTROL PANEL AND PROBE TESTER ASSEMBLY Product Number: TBD Power: 120V/240V,9.25A,50Hz/60Hz				

CIRCUIT 3 - 120V,15A,50/60Hz (EXAMPLE; MAY VARY)				
9	LIGHTING FIXTURES Product Number: TBD Beam Angle: 10° x 60°	Power: 120V,5.6A,50/60Hz		
10	LIGHTING ENABLER Product Number: TBD			
11	LIGHTING CONTROLLER Product Number: TBD			
12	LIGHTING CONTROLLER KEYPAD Product Number: TBD			



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5/22/17

DATE

Generic Drawings

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Harmonic Cascade® Series Large Frameless Stainless Steel Basin

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SHEET #

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GENERAL NOTES

OWNER/GENERAL CONTRACTOR TO PROVIDE THE FOLLOWING:

- 1. MANPOWER AND EQUIPMENT REQUIRED TO UNLOAD THE CRATED PRODUCTS DELIVERED TO THE JOB AND PERFORM INSTALLATION. HARMONIC ENVIRONMENTS WILL PERFORM INSTALLATION CONSULTATION ONLY.
- 2. PLUMBING CONNECTIONS TO MINIMIZE CLEANING AND MAINTENANCE.
 - a. STANDARD 1/2" WATER LINE (BY OTHERS); NPT SS FEMALE CONNECTION COUPLING WITH AUTO-FILL FLOAT VALVE BY HARMONIC ENVIRONMENTS.
 - b. 1-1/2" DRAIN LINE (BY OTHERS); NPT SS FEMALE CONNECTION COUPLING WITH STANDPIPE OVERFLOW BY HARMONIC ENVIRONMENTS.
 - c. 1/2" UPPER DISTRIBUTION SYSTEM DRAIN LINE (BY OTHERS; IF APPLICABLE); NPT SS FEMALE CONNECTION COUPLING BY HARMONIC ENVIRONMENTS.
 - d. A DRAIN IN THE MECHANICAL ROOM IS HIGHLY RECOMMENDED (IF APPLICABLE).
- 3. LEVEL SURFACE FOR THE BASIN (IF APPLICABLE).
- 4. STRUCTURAL SUPPORTS AS NECESSARY.
- 5. IF WATER FEATURE TOWER EXTENDS UP BEHIND A SOFFIT OR FASCIA, SOFFIT OR FASCIA SHOULD BE INSTALLED AFTER WATER FEATURE IS IN PLACE.
- 6. IF THERE IS TO BE A SURROUND AT THE WATER FEATURE BASIN, IT SHOULD BE INSTALLED AFTER WATER FEATURE IS IN PLACE.
- 7. VERIFY THAT SITE FACILITIES (I.E ELEVATORS, DOORWAYS, ETC.) WILL ALLOW CLEAR ACCESS FOR ALL WATERFALL COMPONENTS TO BE DELIVERED AND MOVED INTO PLACE AS NEEDED.
- 8. ALLOW 6" MINIMUM ACCESS BEHIND AND AT LEAST 3" ON EACH SIDE OF THE MESH, UNLESS CLEAR ACCESS IS AVAILABLE FROM THE BACK OF THE MESH FOR MAINTENANCE.
- 9. MINIMUM 7" CLEARANCE REQUIRED ABOVE UPPER DISTRIBUTION SYSTEM FOR REMOVAL OF TOP COVER(S) AND 4" CLEARANCE IN FRONT AND BACK OF UPPER DISTRIBUTION SYSTEM FOR REMOVAL OF FRONT COVER(S) (IF APPLICABLE) AND ACCESS TO LIGHTING (IF APPLICABLE).
- 10. ACCESSIBLE AREA TO ACCOMMODATE EQUIPMENT PER PLUMBING & ELECTRICAL SCHEMATIC AND LED POWER SUPPLY COMPONENTS PER LIGHTING SPECIFICATIONS, WITHIN 50 FT OF WATER FEATURE (IF APPLICABLE).
- 11. PLUMBING PER PLUMBING SCHEMATIC ON SHEETS 07.
- 12. ELECTRICAL SERVICES AND OUTLETS PER ELECTRICAL SCHEMATIC ON SHEETS 08.

ABBREVIATIONS FOUND IN THIS DOCUMENT REPRESENT THE FOLLOWING -

- TBD: TO BE DEFINED
- LBS: POUNDS (WEIGHT)
- UPPER DIST SYS: UPPER DISTRIBUTION SYSTEM
- NPT SS: NOMINAL PIPE SIZE STAINLESS STEEL
- VFD: VARIABLE FREQUENCY DRIVE

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PROJECT # N/A	DATE 5/22/17	REVISION # 00	DRAWN BY JYM	DESIGNED BY TM	SHEET# 09 OF 09
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