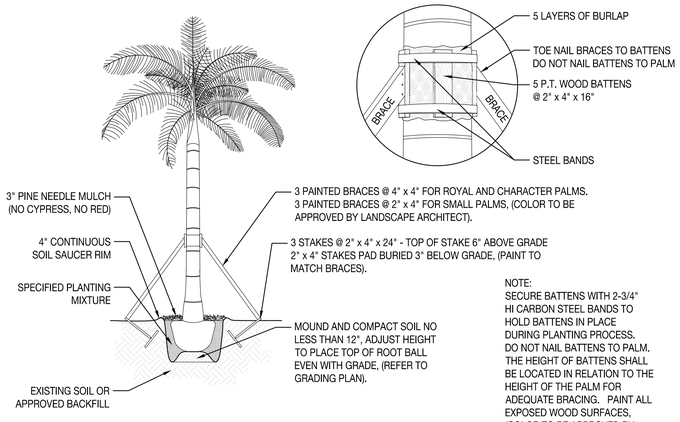
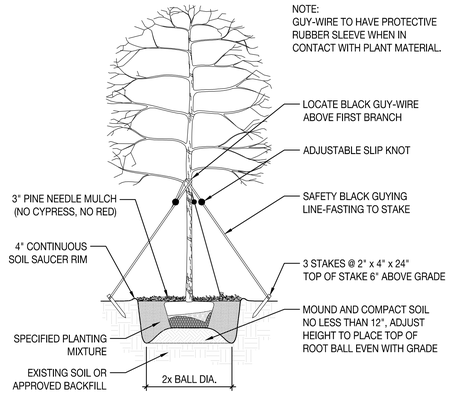
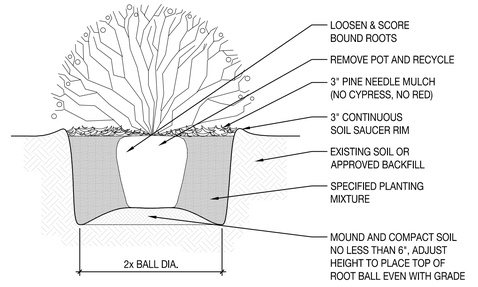


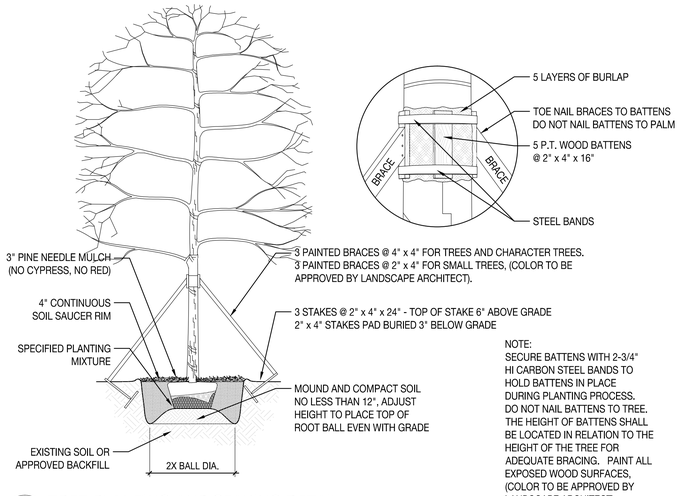
1 PALM PLANTING AND STAKING DETAIL
SCALE: 3/32" = 1'- 0"



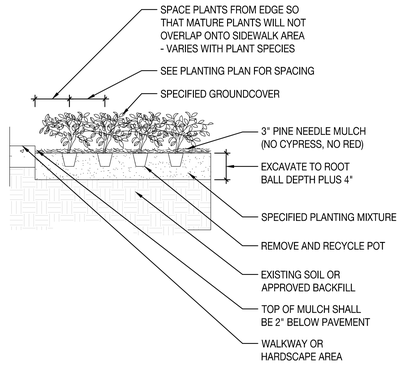
2 UNDERSTORY TREE PLANTING AND STAKING DETAIL
SCALE: 3/32" = 1'- 0"



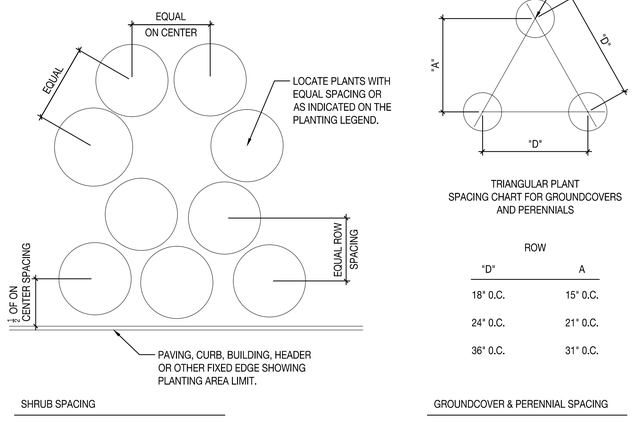
3 SHRUB PLANTING DETAIL
SCALE: 3/32" = 1'- 0"



4 TREE PLANTING AND STAKING DETAIL
SCALE: 3/32" = 1'- 0"



5 GROUND COVER PLANTING DETAIL
SCALE: 3/32" = 1'- 0"



TRIANGULAR PLANT
SPACING CHART FOR GROUNDCOVERS
AND PERENNIALS

ROW

"D"	A
18" O.C.	15" O.C.
24" O.C.	21" O.C.
36" O.C.	31" O.C.

GROUNDCOVER & PERENNIAL SPACING

6 PLANT & SHRUB SPACING DETAIL
SCALE: 3/32" = 1'- 0"

NIELSEN
landscape architects
1016 clare avenue, 5
west palm beach, fl
561.402.9414
www.nielsenlandarch.com

RETI
9537 HARDING AVENUE
SURFSIDE, FL 33154
305.867.6344
WWW.RETIMIAMI.COM

REVUELTA INTERNATIONAL
2950 SW 27TH STREET, 110
MIAMI, FL 33133
305.590.5000
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CLARO DEVELOPMENT
1035 N MIAMI AVENUE, 201
MIAMI, FL 33136
305.324.4700
WWW.CLAROCORP.COM

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333 NE 24TH STREET, 408
MIAMI, FL 33137
786.253.5252
WWW.OCEANENGINEERINGINC.COM

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7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN - LA6667067

REGISTERED LANDSCAPE ARCHITECT
TYLER NIELSEN
LA 6667067
STATE OF FLORIDA

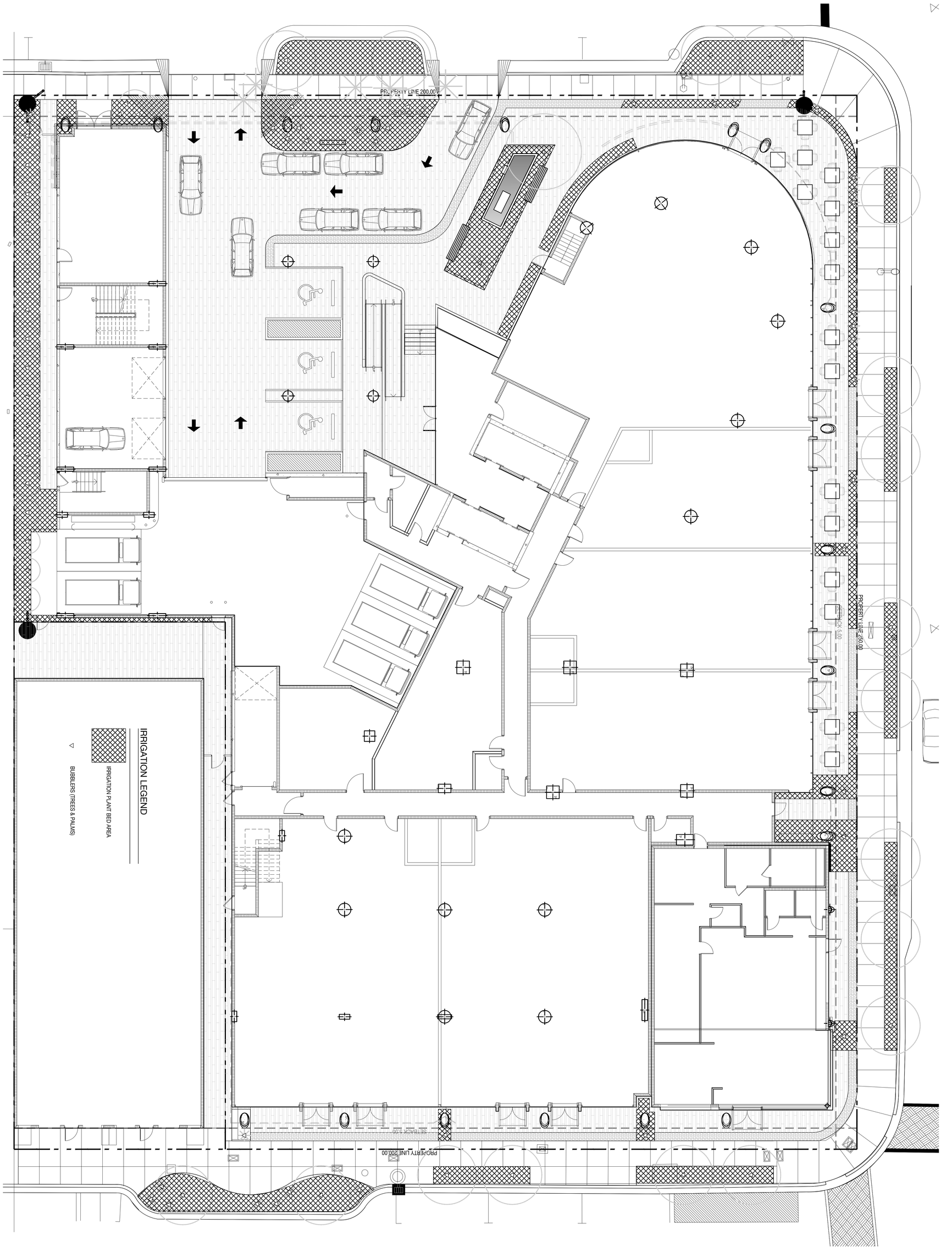
03.23.2018

GENERAL PLANTING DETAILS

DATE	
10.17.2016	PLANNING BOARD
10.28.2016	M. BEACH DRB
11.02.2016	M. BEACH REVIEW
11.27.2016	50% SCHEMATIC
12.21.2016	100% SCHEMATIC
06.22.2017	80% D.DEVELOPMENT
07.20.2017	100% D.DEVELOPMENT
09.01.2017	30% CD
12.21.2017	PERMIT DRAWINGS
03.23.2018	MB PLANNING FINAL
04.06.2018	DRB FINAL SUBMITTAL

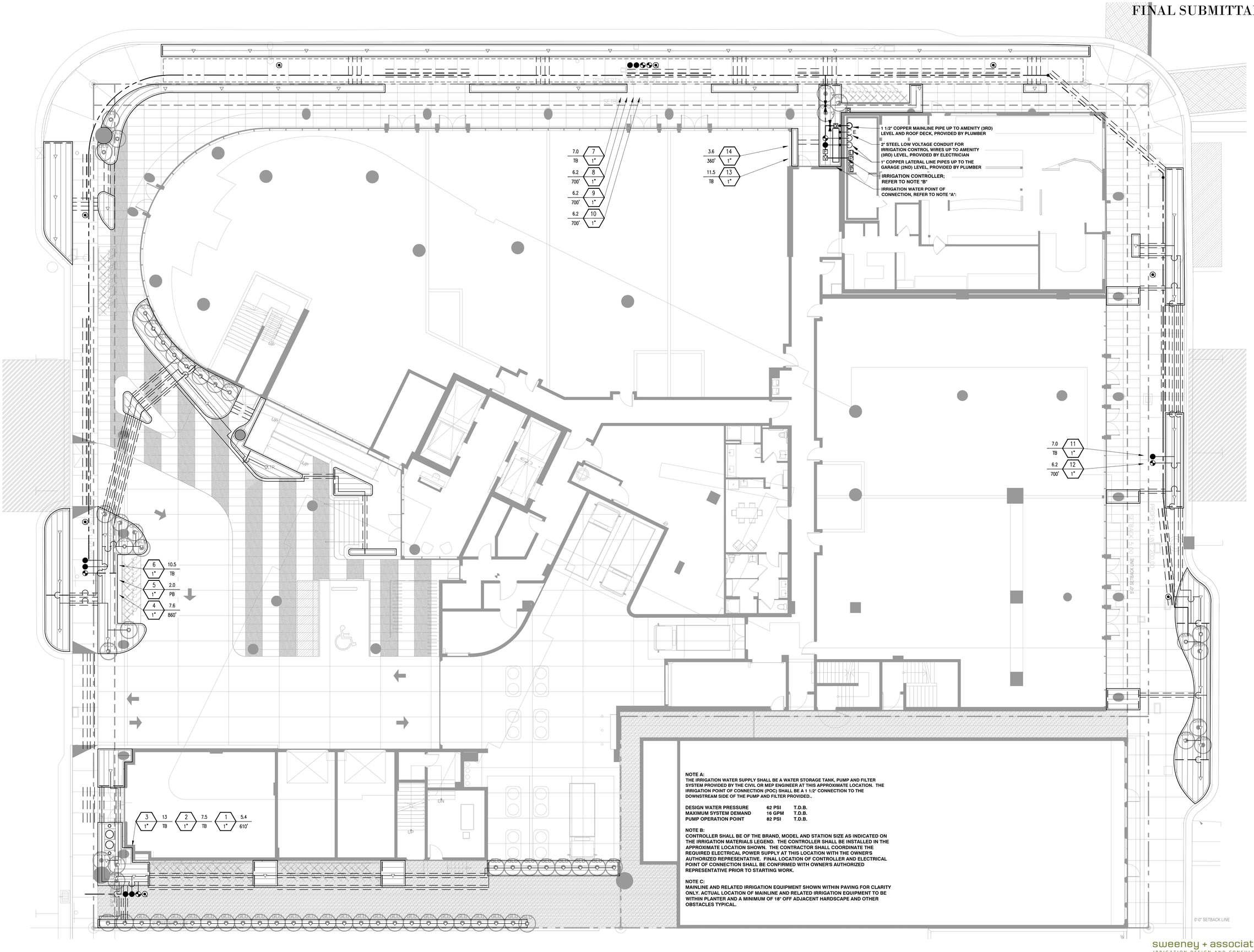
SCALE AS NOTED:

L709



ORIGINAL DESIGN SUBMITTED FOR REVIEW

FINAL SUBMITTAL



NOTE A:
THE IRRIGATION WATER SUPPLY SHALL BE A WATER STORAGE TANK, PUMP AND FILTER SYSTEM PROVIDED BY THE CIVIL OR MEP ENGINEER AT THIS APPROXIMATE LOCATION. THE IRRIGATION POINT OF CONNECTION (POC) SHALL BE A 1 1/2" CONNECTION TO THE DOWNSTREAM SIDE OF THE PUMP AND FILTER PROVIDED..

DESIGN WATER PRESSURE	**62 PSI**	**T.D.B.**
MAXIMUM SYSTEM DEMAND	**16 GPM**	**T.D.B.**
PUMP OPERATION POINT	**82 PSI**	**T.D.B.**

NOTE B:
CONTROLLER SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
MAINLINE AND RELATED IRRIGATION EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT TO BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYPICAL.

NIELSEN
landscape architects
1016 clare avenue, 5
west palm beach, fl
561.402.9414
www.nielsenlandarch.com

RETI
9537 HARDING AVENUE
SURFSIDE, FL 33154
305.867.6344
WWW.RETIMIAMI.COM

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110
MIAMI, FL 33133
305.590.5000
WWW.REVUELTA-ARCHITECTURE.COM

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201
MIAMI, FL 33136
305.324.4700
WWW.CLAROCORP.COM

OCEAN ENGINEERING, INC.
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408
MIAMI, FL 33137
786.253.5252
WWW.OCEANENGINEERINGINC.COM

7140 COLLINS HOTEL

7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN – LA6667067

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT STEVEN TYLER NIELSEN ILA 6667067 STATE OF FLORIDA

02.22.2018

IRRIGATION PLAN – GROUND LEVEL

DATE	
10.17.2016	PLANNING BOARD
10.28.2016	M. BEACH DRB
11.02.2016	M. BEACH REVIEW
11.27.2016	50% SCHEMATIC
12.21.2016	100% SCHEMATIC
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07.20.2017	100% D.DEVELOPMENT
09.01.2017	30% CD
12.21.2017	PERMIT DRAWINGS
02.22.2018	COORDINATION
04.06.2018	DRB FINAL SUBMITTAL

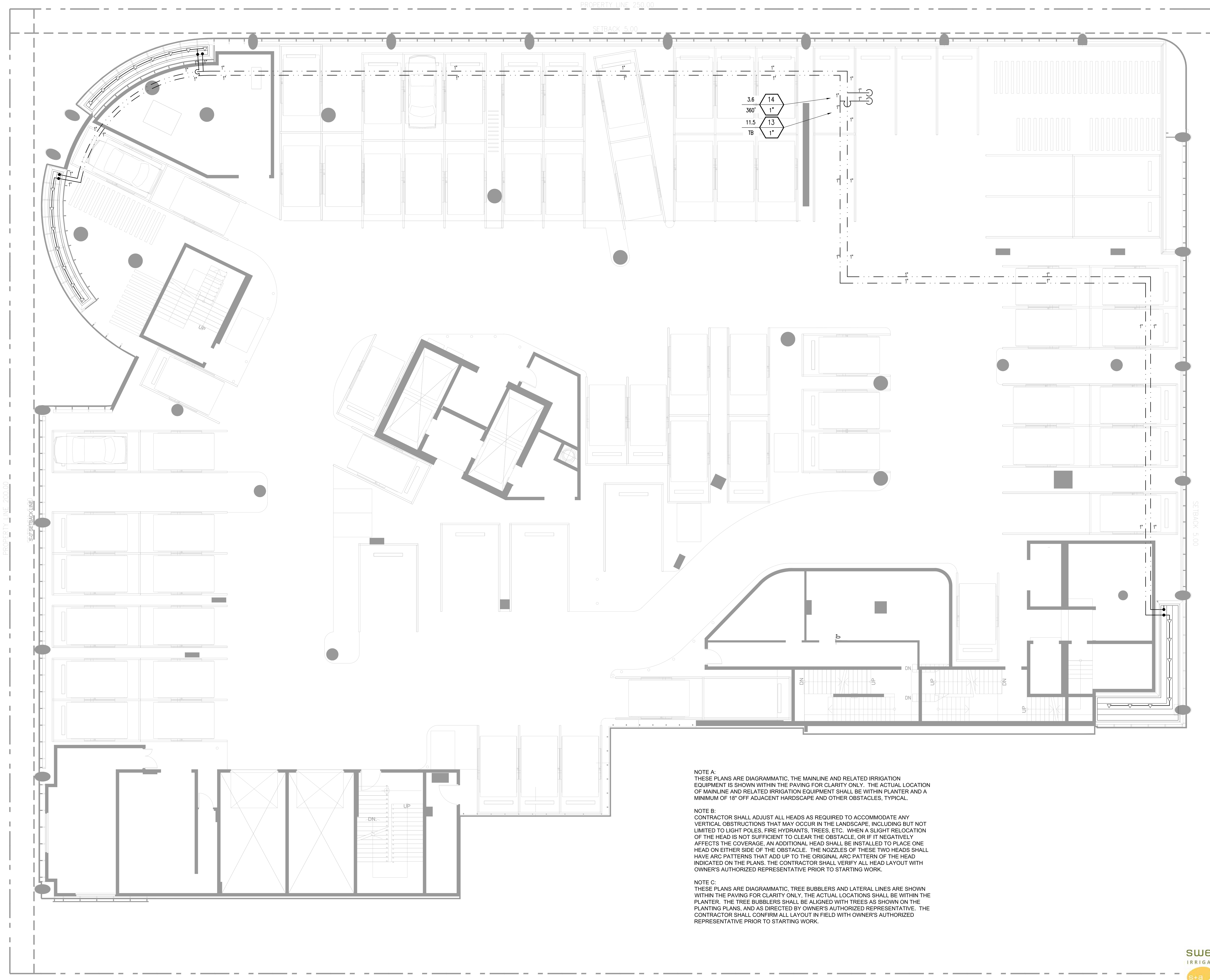
NORTH

0 4' 8'

L801

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6850
w: www.sweeneyassoc.com f: (951) 461-6850

FINAL SUBMITTAL



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NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

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sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com | t: (951) 461-6830
w: www.sweeneyassoc.com | f: (951) 461-6850
s+a

NIELSEN
landscape architects
1016 clare avenue, 5
west palm beach, fl
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www.nielsenlandarch.com

RETI
9537 HARDING AVENUE
SURFSIDE, FL 33154
305.867.6344

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2950 SW 27TH STREET, 110
MIAMI, FL 33133
305.590.5000

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CLARO DEVELOPMENT
1035 N MIAMI AVENUE, 201
MIAMI, FL 33136
305.324.4700

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OCEAN ENGINEERING, INC.
333 NE 24TH STREET, 408
MIAMI, FL 33137
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7140 COLLINS HOTEL

7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN – LA6667067

REGISTERED LANDSCAPE ARCHITECT
STEVEN TYLER NIELSEN
RLA 6667067
STATE OF FLORIDA

02.22.2018

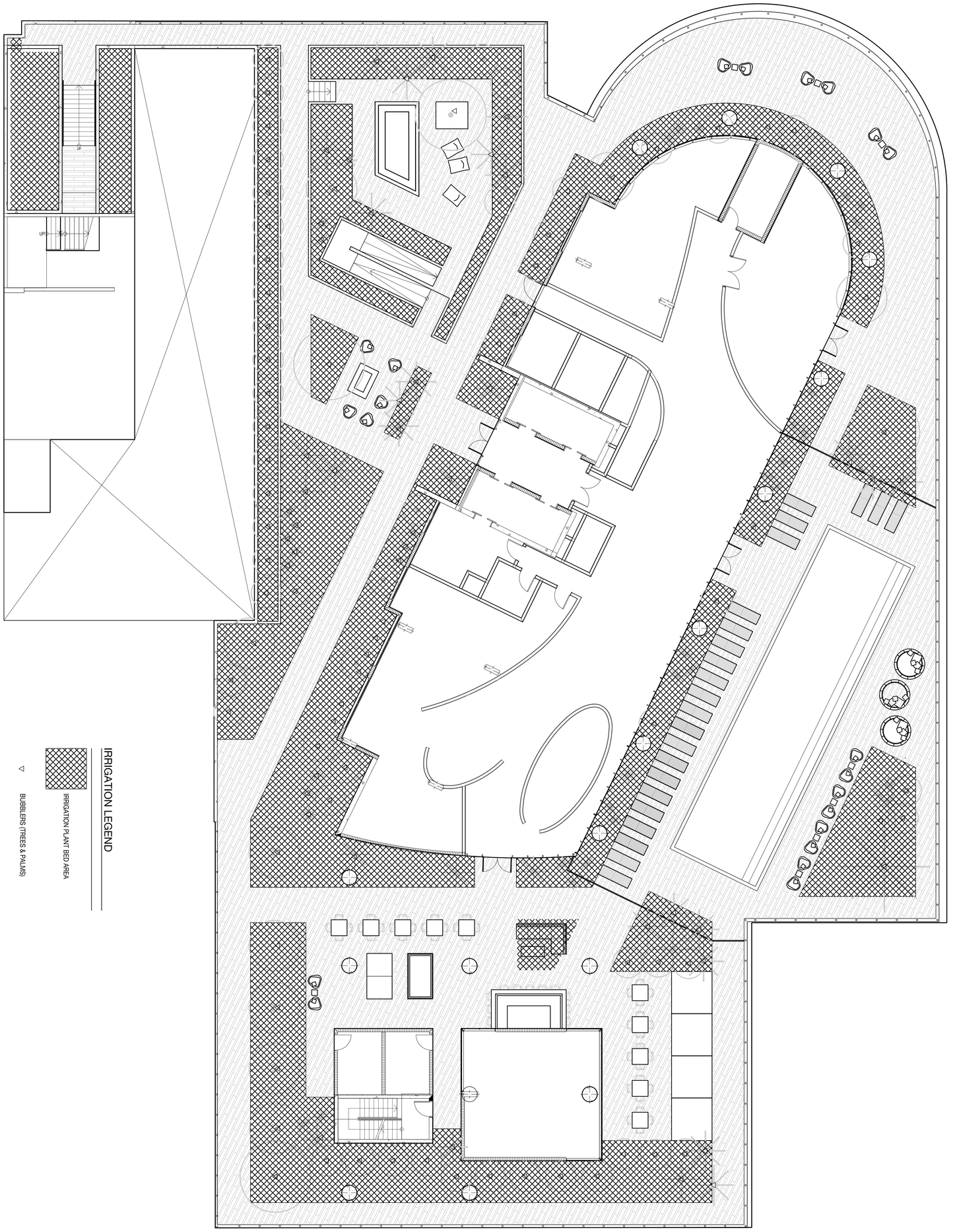
IRRIGATION PLAN–GARAGE

DATE	
10.17.2016	PLANNING BOARD
10.28.2016	M. BEACH DRB
11.02.2016	M. BEACH REVIEW
11.27.2016	50% SCHEMATIC
12.21.2016	100% SCHEMATIC
06.22.2017	80% D.DEVELOPMENT
07.20.2017	100% D.DEVELOPMENT
09.01.2017	30% CD
12.21.2017	PERMIT DRAWINGS
02.22.2018	COORDINATION
04.06.2018	DRB FINAL SUBMITTAL

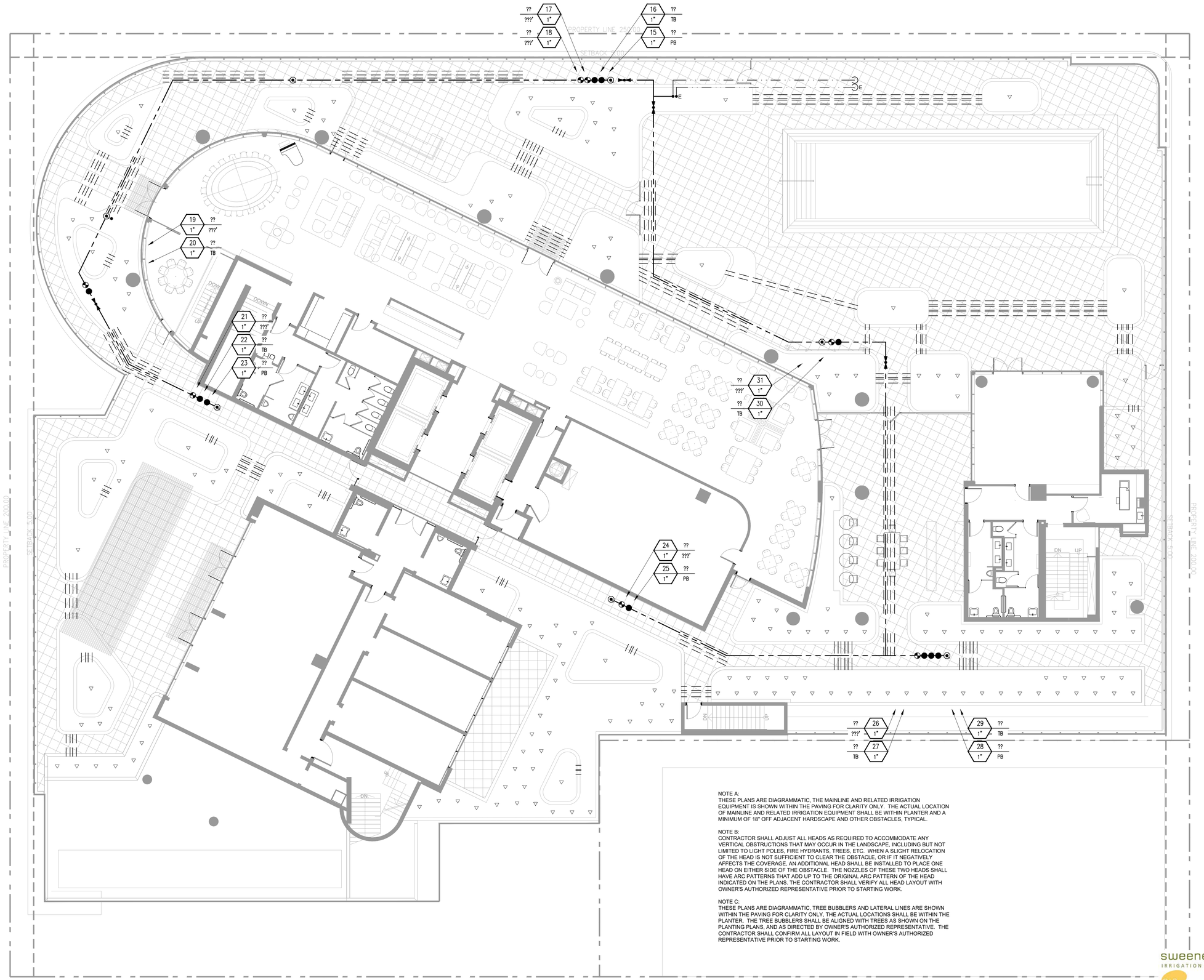
NORTH

0 4' 8'

L802



ORIGINAL DESIGN SUBMITTED FOR REVIEW



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Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
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NIELSEN
landscape architects
1016 clare avenue, 5
west palm beach, fl
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SURFSIDE, FL 33154
305.867.6344
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305.324.4700
WWW.CLAROCORP.COM

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408
MIAMI, FL 33137
786.253.5252
WWW.OCEANENGINEERINGINC.COM

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7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN –
LA6667067

02.22.2018

IRRIGATION PLAN–AMENITY

DATE	
10.17.2016	PLANNING BOARD
10.28.2016	M. BEACH DRB
11.02.2016	M. BEACH REVIEW
11.27.2016	50% SCHEMATIC
12.21.2016	100% SCHEMATIC
06.22.2017	80% D.DEVELOPMENT
07.20.2017	100% D.DEVELOPMENT
09.01.2017	30% CD
12.21.2017	PERMIT DRAWINGS
02.22.2018	COORDINATION
04.06.2018	DRB FINAL SUBMITTAL

NORTH
0 4' 8'

L803

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NIELSEN
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201
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333 NE 24TH STREET,
408
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786.253.5252
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7140 COLLINS HOTEL
7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN – LA6667067

02.22.2018

IRRIGATION PLAN–ROOF

DATE	
10.17.2016	PLANNING BOARD
10.28.2016	M. BEACH DRB
11.02.2016	M. BEACH REVIEW
11.27.2016	50% SCHEMATIC
12.21.2016	100% SCHEMATIC
06.22.2017	80% D.DEVELOPMENT
07.20.2017	100% D.DEVELOPMENT
09.01.2017	30% CD
12.21.2017	PERMIT DRAWINGS
02.22.2018	COORDINATION
04.06.2018	DRB FINAL SUBMITTAL

NORTH
0 4' 8'

L804

FINAL SUBMITTAL

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
9. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING 2.5 TIMES THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
10. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
11. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
12. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
13. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

IRRIGATION SYSTEM DESCRIPTION

THE IRRIGATION SYSTEM SHALL BE A FULLY AUTOMATIC SYSTEM AS DESCRIBED BELOW:

APPLICATION METHODS:

ALL TURF AREAS SHALL BE IRRIGATED WITH POP-UP SPRINKLER HEADS THAT PROVIDE HEAD-TO-HEAD (100%) COVERAGE OF THE TURF AREA. POP-UP HEADS SHALL BE 6" TYPE. NOZZLES USED ON SPRINKLER HEADS SHALL BE ADJUSTABLE ARC SPRAY HEADS WITH MATCHED PRECIPITATION RATES. HEADS SHALL BE INSTALLED ON SWING JOINTS.

ALL SHRUB AND GROUND COVER AREAS SHALL BE IRRIGATED WITH SUB-SURFACE DRIP TUBING IRRIGATION SYSTEMS. DRIP TUBING SYSTEMS SHALL BE BURIED 2" BELOW FINISHED SOIL GRADE. DRIP TUBING SHALL BE SPACED 16" APART AT A MAXIMUM WITH THE PERIMETER ROWS OF TUBING NO FARTHER THAN 4" FROM HARDSCAPE EDGES.

ALL TREES TO BE IRRIGATED WITH POP-UP STREAM BUBBLER HEADS. POP-UP HEADS SHALL BE 6" TYPE. HEADS SHALL BE INSTALLED ON SWING JOINTS

VALVES:

MASTER VALVE SHALL BE NORMALLY CLOSED TYPE, ELECTRICALLY OPERATED, PLASTIC BODY, INSTALLED BELOW GRADE IN A VAVE BOX.
FLOW SENSOR SHALL BE A PVC BODIED IMPELLER TYPE INSTA;ED BELOW GRADE IN A VALVE BOX.
MAINLINE ISOLATION VALVES SHALL BE PVC BALL TYPE INSTALLED BELOW GRADE IN A VALVE BOX.
QUICK COUPLER VALVES SHALL BE 3/4" SIZE INSTALLED BELOW GRADE IN A VALVE BOX.
REMOTE CONTROL VALVES SHALL BE ELECTRICALLY OPERATED, PLASTIC BODY, INSTALLED BELOW GRADE IN A VALVE BOX.
DRIP CONTROL VALVES SHALL BE INSTALLED WITH PLASTIC FILTER AND PRESSURE REGULATOR.

CONTROLS:

THE IRRIGATION CONTROLLER (TIME CLOCK) SHALL BE A SOLID STATE CONTROLLER WITH THE CAPABILITY OF READING A FLOW SENSOR AND AUTOMATICALLY ADJUSTING THE PROGRAM BASED ON CURRENT WEATHER CONDITIONS.
WIRES FOR CONTROL SYSTEM TO THE VALVES SHALL BE #14UF AWG DIRECT BURIAL TYPE.
WIRES INSTALLED INSIDE LOW VOLTAGE WIRE CONDUITS IN BUILDING MAY BE #14 THHN TYPE.
ALL WIRE CONNECTIONS SHALL BE WATERPROOF TYPE.

PIPE:

MAINLINE PIPE WITHIN PLANTERS SHALL BE SCHEDULE 40 PVC, 1 1/2" SIZE.
LATERAL LINE PIPE WITHIN PLANTERS SHALL BE SCHEDULE 40 PVC, 3/4" TO 1 1/2" SIZE.
SLEEVES BETWEEN PLANTERS SHALL BE SCHEDULE 40 PVC, 2" MINIMUM SIZE.
MAINLINE PIPE WITHIN BUILDING SHALL BE TYPE K COPPER, 1 1/2" SIZE.
LATERAL PIPE WITHIN BUILDING SHALL BE TYPE K COPPER, 1" TO 1 1/2" SIZE.
LOW VOLTAGE WIRE CONDUIT WITHIN BUILDING SHALL BE STEEL, 2" SIZE.

IRRIGATION SYSTEM SHALL BE SERVED FROM WATER IN A STORAGE TANK AND PUMPED TO THE THREE LEVELS OF PLANTING. WATER TANK AND PUMP SHALL BE AS PROVIDED BY THE CIVIL OR MEP ENGINEER WITH PUMP REQUIREMENTS (FLOW AND PRESSURE) AS PROVIDED BY THE IRRIGATION CONSULTANT.

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	PR (TRI.)	DETAIL
	HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 5Q/5H NOZZLES	.12, .23	30	5 FT	2.05 IN./HR.	A
	HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 8Q/8T/8H/8F NOZZLES	.24, .32, .47, .97	30	8 FT	1.69 IN./HR.	A
	HUNTER	PROS-06-PRS30-CV 6" POP-UP TURF HEAD WITH 10Q/10T/10H/10F NOZZLES	.42, .57, .88, 1.59	30	10 FT	1.77 IN./HR.	A
	HUNTER	PROS-04-CV 4" POP-UP BUBBLER HEAD WITH A MSBN-50Q PRESSURE COMPENSATING STREAM BUBBLER NOZZLE. EACH SYMBOL REPRESENTS ONE (1) BUBBLER PER PALM. PLACE THE BUBBLER HEADS 6" FROM THE EDGE OF THE ROOT BALL OF THE TREE OR PALM AND ON OPPOSITE SIDES OF THE TREE OR PALM, TYPICAL. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE PALM.	.50	30	N/A	N/A	A,B
	HUNTER	PROS-04-CV 4" POP-UP BUBBLER HEAD WITH A MSBN-50Q PRESSURE COMPENSATING STREAM BUBBLER NOZZLE. EACH SYMBOL REPRESENTS TWO (2) BUBBLERS TO PROVIDE TWO (2) BUBBLERS PER TREE. PLACE THE BUBBLER HEADS 6" FROM THE EDGE OF THE ROOT BALL OF THE TREE OR PALM AND ON OPPOSITE SIDES OF THE TREE OR PALM. TYPICAL. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE.	.50 (1.0)	30	N/A	N/A	A,B
	NETAFIM	TLHCVXR5-12 SUBSURFACE DRIP TUBING WITH 0.53 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER OXIDE INFUSED EMITTERS AND A PHYSICAL BARRIER TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP EMITTERS SHALL BE CONTINUOUS FLUSHING TYPE AND EQUIPPED WITH A CHECK VALVE AND ANTI-SIPHON FEATURE. DRIP TUBING SHALL BE INSTALLED 2" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE SPACING REQUIREMENTS ABOVE AND IN DETAILS.					C,D
	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					C
NO SYMBOL	NETAFIM	CONNECTION BETWEEN HCVXR DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING TL DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A TL050MA 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) TL050MA 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					C,D
NO SYMBOL	NETAFIM	TL SERIES 17mm BARBED FITTINGS FOR CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). NO HEATING OF TUBING SHALL BE ALLOWED.					D
	GPH IRRIGATION/ HUNTER	GDFN-R DRIP FLUSH / INDICATOR NOZZLE, INSTALLED ONTO A HUNTER PROS-12-R 12" POP-UP SPRINKLER BODY. THE FLUSH NOZZLE SHALL BE ORIENTED TO SEND FLUSH WATER INTO THE PLANTER AREA AND CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					E
	G.P.S.	IRRIGATION PUMP SYSTEM. CONTRACTOR SHALL CONTACT DARYL GREEN AT GREEN PRODUCT SERVICES. (949) 584-7311, FOR PRICE AND ORDERING. REFER TO DESIGN SPECIFICATIONS BELOW AND CONFIRM SYSTEM PARAMETERS WITH GPS PRIOR TO ORDERING. POINT OF OPERATION #1: 16 GPM, 82 PSI BOOST					N/A
	BUCKNER	3200 1 1/2" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE CONDUIT WITH FLOW SENSOR WIRE. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					F
	N/A	ELECTRICAL POWER FOR PUMP SYSTEM, PROVIDED BY ELECTRICIAN. VERIFY ACTUAL LOCATION IN FIELD. MINIMUM REQUIRED 230 VOLT (THREE) PHASE.					N/A
	N/A	KC-XXX-S SPRING CHECK VALVE, SIZE PER MAINLINE, INSTALL WITHIN A 10" ROUND VALVE BOX					N/A
	RAIN BIRD	FS150P SERIES FLOW SENSOR IN A 1 1/2" PVC TEE, INSTALL PER MANUFACTURER'S RECOMMENDATION AND WIRE TO CONTROLLER					G
	HUNTER	ICV-101G-FS-AS-ADJ 1" PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SET AS-ADJ PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD TO THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE. INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					H
	HUNTER/ TORO/ SENNINGER	ICV-101G-FS 1" SERIES DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN, INSTALL TORO T-ALFD75150-L, 3/4" DISC FILTER AND SENNINGER PRESSURE REGULATOR PMR-40MF FOR DEMANDS LESS THAN 18 GPM. TORO T-ALFD10150-L 1" DISC FILTER AND SENNINGER PR-40HF PRESSURE REGULATOR FOR DEMANDS GREATER THAN 18 GPM. INSTALL BOTH ON THE DOWNSTREAM SIDE OF EACH DRIP RCV					I
	HUNTER	HQ-33DLRC 3/4" QUICK COUPLER VALVE, INSTALL WITHIN A RECTANGULAR VALVE BOX WITH ISOLATION VALVE.					J
	LASCO	V1710N-SC 1 1/2" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					K
	HUNTER	IC-600-PL CONTROLLER WITH FIVE (5) ICM-600 EXPANSION MODULES TO MAKE IT AN 36 STATION CONTROLLER, INSTALLED WITHIN PLASTIC WALL MOUNT ENCLOSURE AS PART OF MODEL					L,M
NO SYMBOL	PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND ROD, A #182005 CAST BRONZE ROD CLAMP AND THE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INSIDE A 10" ROUND VALVE BOX.					M
	HUNTER	MINI-CLIK RAIN SENSOR, MOUNT ON EXTERIOR OF BUILDING AND WIRE TO CONTROLLER WITHIN CONDUIT, PAINT CONDUIT TO MATCH BUILDING COLOR					M
	N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
	AS APPROVED	PVC PIPE 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					N,O,P
	AS APPROVED	PVC PIPE 3/4" - 1 1/4" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					N,O,P
	AS APPROVED	TYPE 'K' COPPER PIPING ROUTED BETWEEN PLANTERS, AND THROUGH BUILDING AND GARAGES. COPPER PIPING SHALL BE DESIGNED BY THE PLUMBING ENGINEER AND BE SHOWN ON THE PLUMBING PLANS. COPPER PIPING SHALL BE INSTALLED BY THE PLUMBER. COPPER PIPING SHOWN IS FOR REFERENCE ONLY. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
	AS APPROVED	SYMBOL REPRESENTS PENETRATION THROUGH WALLS WITH FEMALE ADAPTERS, DESIGNED BY PLUMBING ENGINEER AND SUPPLIED BY PLUMBER					N/A
	AS APPROVED	CONNECTION POINT BETWEEN COPPER PIPING (PROVIDED BY PLUMBER) AND PVC IRRIGATION PIPING. COPPER PIPE STUB-OUT SHALL HAVE A LINE SIZED SWEAT X FIPT COPPER ADAPTER PROVIDED FOR CONNECTION TO THE IRRIGATION PIPING. USE A LINE SIZED X 6" SCH. 80 T.O.E. PVC NIPPLE AND A LINE SIZED PVC COUPLING FOR THE CONNECTION. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.					O
E E	AS APPROVED	2" STAINLESS STEEL CONDUIT FOR WIRES, INSTALL PARALLEL TO COPPER LINE CONNECTING GROUND AND AMENITY LEVELS					N/A
NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)					N,O,P
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED)					P
NO SYMBOL	K.B.I.	KSC-XXX-S SWING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER THAN THE SPRINKLERS INSTALL WITHIN SPRINKER/DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD/EMITTER DRAINAGE.					N/A
NO SYMBOL	K.B.I.	KC-XXX-S SPRING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV IMMEDIATELY ABOVE FIRST LATERAL LINE TEE WHEN RCV IS HIGHER THAN THE SPRINKLERS, INSTALL WITHIN SPRINKER/DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD/EMITTER DRAINAGE.					N/A
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BODIED CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	RAIN BIRD	ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE BLACK IN COLOR. LIDS FOR BOXES IN TURF AREAS SHALL BE GREEN. LIDS FOR VALVE BOXES IN SHRUB AREAS SHALL BE BLACK. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP. BOXES SHALL BE AS SHOWN BELOW:					N/A

DESCRIPTION	TURF AREAS (GREEN LIDS)	SHRUB AREAS (BLACK LIDS)
7" ROUND BOXES	VB-7RND	VB-7RNDBK (RB ITEM ID #11484)
10" ROUND BOXES	VB-10RND	VB-10RNDBK (RB ITEM ID #61461)
STANDARD RECTANGULAR BOXES	VB-STD	VB-STDBK (RB ITEM ID #61411)
JUMBO RECTANGULAR BOXES	VB-JMB	VB-JMBBK (RB ITEM ID #A61441)

NIELSEN
landscape architects
1016 clare avenue, 5
west palm beach, fl
561.402.9414
www.nielsenlandarch.com

RETI
9537 HARDING AVENUE
SURFSIDE, FL 33154
305.867.8344
WWW.RETIMIAMI.COM

REVUELTA INTERNATIONAL
2950 SW 27TH STREET,
110
MIAMI, FL 33133
305.590.5000
WWW.REVUELTA-ARCHITECTURE.COM

CLARO DEVELOPMENT
1035 N MIAMI AVENUE,
201
MIAMI, FL 33136
305.324.4700
WWW.CLAROCORP.COM

OCEAN ENGINEERING, INC.
333 NE 24TH STREET,
408
MIAMI, FL 33137
786.253.5252
WWW.OCEANENGINEERINGINC.COM

7140 COLLINS HOTEL

7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN – LA6667067

NOT FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
S. TYLER NIELSEN
RLA 6667067
STATE OF FLORIDA

02.22.2018

IRRIGATION LEGEND & NOTES

DATE	
10.17.2016	PLANNING BOARD
10.28.2016	M. BEACH DRB
11.02.2016	M. BEACH REVIEW
11.27.2016	50% SCHEMATIC
12.21.2016	100% SCHEMATIC
06.22.2017	80% D.DEVELOPMENT
07.20.2017	100% D.DEVELOPMENT
09.01.2017	30% CD
12.21.2017	PERMIT DRAWINGS
02.22.2018	COORDINATION
04.06.2018	DRB FINAL SUBMITTAL

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
30700 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461 6830
w: www.sweeneyassoc.com f: (951) 461 6850

L805

FINAL SUBMITTAL

NIELSEN
landscape architects
1016 clare avenue, 5
west palm beach, fl
561.402.9414
www.nielsenlandarch.com

RETI
9537 HARDING AVENUE
SURFSIDE, FL 33154
305.867.6344
WWW.RETIMIAMI.COM

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110
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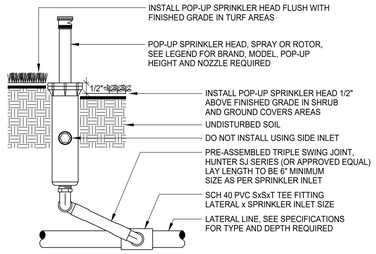
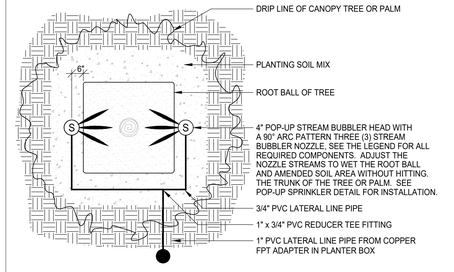


NOTE:
INSTALL SPRINKLER HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRINKLER HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.
INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN TURF AREAS.

INSTALL SPRINKLER HEADS PLUMB. ADJUST SPRAYS OR NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

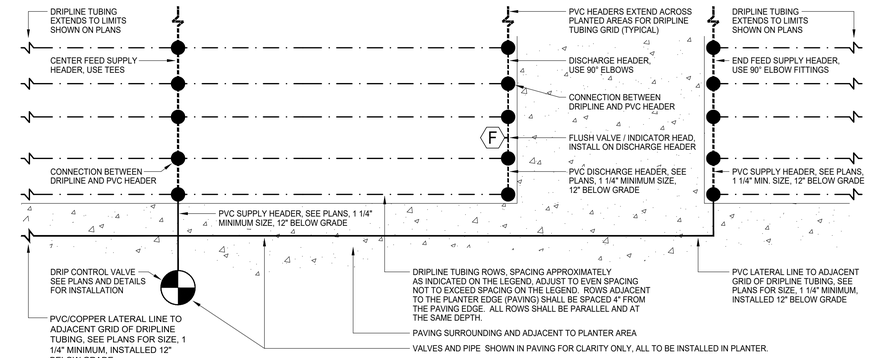
A POP-UP BUBBLER HEAD



NOTE:
POSITION MSBN-50Q STREAM BUBBLER HEADS 6" FROM THE ROOT BALL.

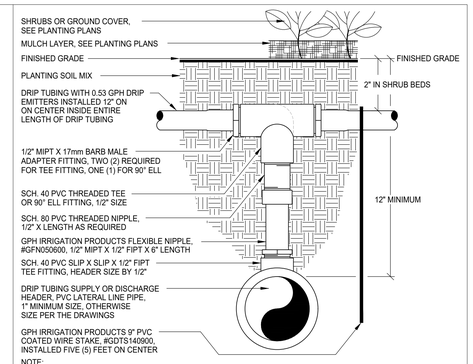
PLAN VIEW - N.T.S.

B TREE BUBBLER LAYOUT



PLAN VIEW - N.T.S.

C DRIP TUBING LAYOUT

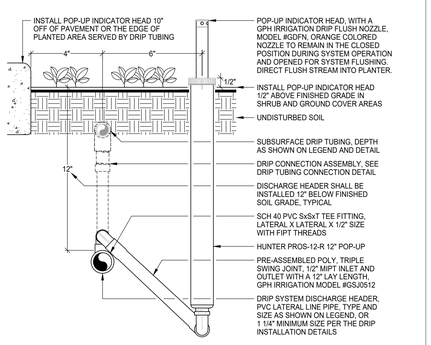


NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.

FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.

SECTION VIEW - N.T.S.

D DRIP TUBING CONNECTION



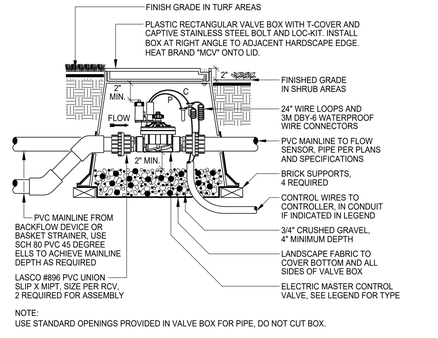
NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

FOR RECYCLED WATER USE A GPH IRRIGATION GDFN-R, PURPLE COLOR CODED FLUSH NOZZLE.

SECTION VIEW - N.T.S.

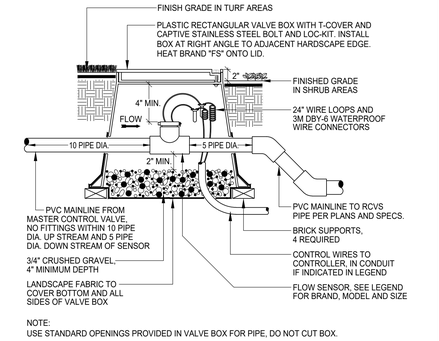
E DRIP FLUSH / INDICATOR HEAD



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

SECTION VIEW - N.T.S.

F MASTER CONTROL VALVE

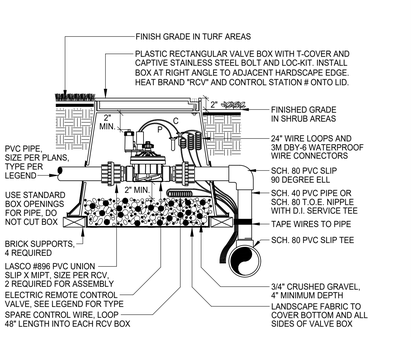


NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

USE SCH 80 PVC 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH AS REQUIRED.

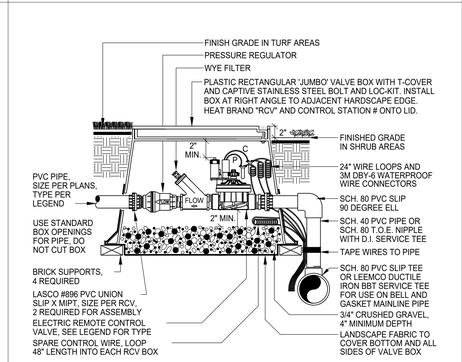
SECTION VIEW - N.T.S.

G FLOW SENSOR



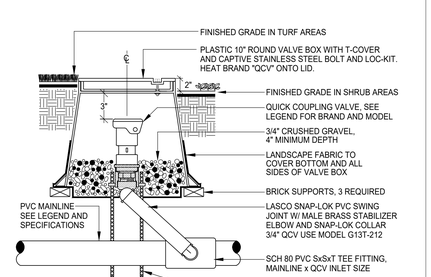
SECTION VIEW - N.T.S.

H REMOTE CONTROL VALVE



SECTION VIEW - N.T.S.

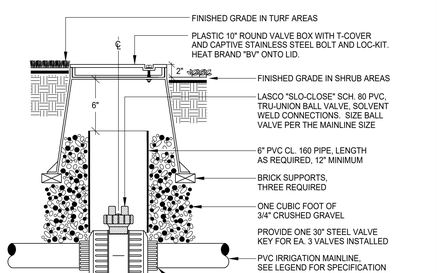
I DRIP RCV ASSEMBLY



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

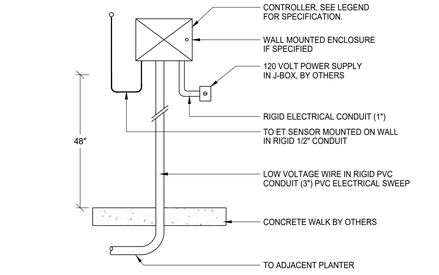
SECTION VIEW - N.T.S.

J QUICK COUPLER VALVE



SECTION VIEW - N.T.S.

K BALL VALVE

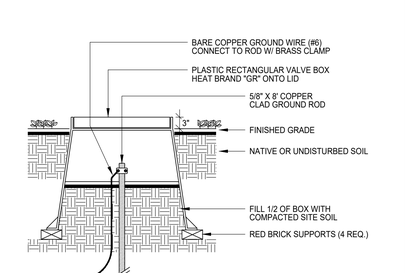


NOTE:
INSTALL ENCLOSURE AS INDICATED BY CITY STAFF & MANUFACTURER'S RECOMMENDATION.

ROUTE WIRES AND SLEEVE THROUGH WALL AS PER LANDSCAPE ARCHITECT'S RECOMMENDATION.

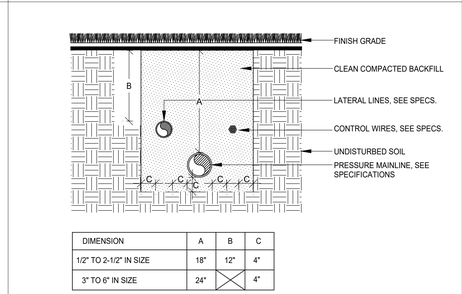
SECTION VIEW - N.T.S.

L WALL MOUNTED CONTROLLER



SECTION VIEW - N.T.S.

M GROUND ROD INSTALLATION



DIMENSION	A	B	C
1/2" TO 2-1/2" IN SIZE	18"	12"	4"
3" TO 6" IN SIZE	24"		4"

SECTION VIEW - N.T.S.

N PIPE UNDER SOFTSCAPE

7140 COLLINS
7140 COLLINS AVENUE | MIAMI BEACH, FLORIDA 33141

S. TYLER NIELSEN – LA6667067
NOT FOR CONSTRUCTION

IRRIGATION DETAILS

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02.22.2018	COORDINATION
04.06.2018	DRB FINAL SUBMITTAL

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
30730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

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