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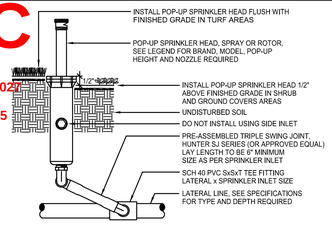
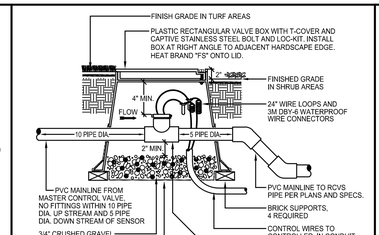


SECTION VIEW - N.T.S.

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.

A POP-UP SPRINKLER

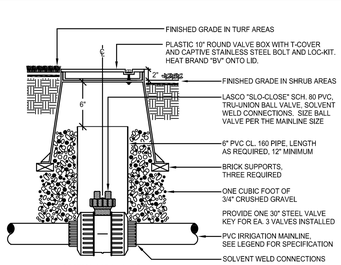


SECTION VIEW - N.T.S.

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

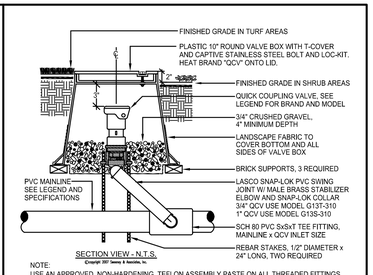
USE SCH 80 PVC 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH AS REQUIRED.

C FLOW SENSOR



SECTION VIEW - N.T.S.

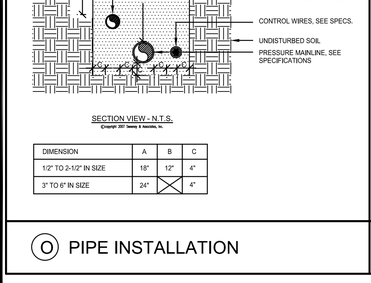
D BALL VALVE



SECTION VIEW - N.T.S.

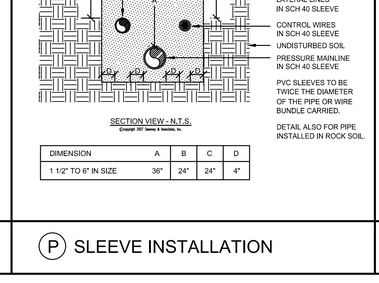
NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

E QUICK COUPLER VALVE



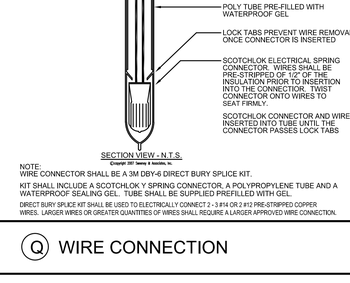
SECTION VIEW - N.T.S.

F REMOTE CONTROL VALVE



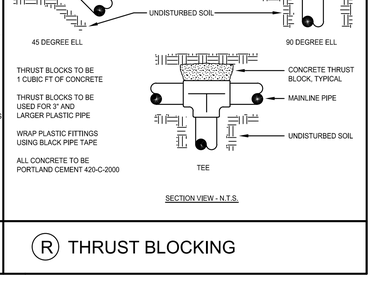
SECTION VIEW - N.T.S.

G DRIP RCV ASSEMBLY



SECTION VIEW

I GROUND ROD INSTALLTION



J DRIPLINE TUBING

SECTION VIEW - N.T.S.

RECOMMENDED INSTALLATION:

TO INSURE EVEN PARALLEL AND LEVEL TUBING ROWS IT IS RECOMMENDED THAT THE SOIL LEVEL IN THE PLANTER AREAS BE BROUGHT TO 4.5" BELOW FINISHED GRADE AND PROPERLY COMPACTED AS PER THE LANDSCAPED DRAWINGS PRIOR TO THE INSTALLATION OF THE TUBING.

INSTALL TUBING AS INDICATED ON THESE DRAWINGS AND SECURE TO GRADE USING WIRE HOOP STAKES AT 5 FEET ON CENTER SPACING.

BACKFILL FINAL 4.5" OF SOIL/BARK MULCH OVER THE TUBING AFTER INSTALLATION OF THE TUBING AND OBSERVATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

K DRIPLINE CONNECTION(SECTION)

INSTALL DRIP FLUSH VALVE PER DETAIL AT THE END OF EACH TUBING SECTION PER PLAN. INSTALL ARI RELIEF VALVES PER DETAIL, AT HIGH POINTS OF EACH TUBING SECTION PER PLAN. RUN ARI-VACUUM RELIEF BLANK TUBING LATERAL ALONG HIGH POINT OF MOUND OR BERM. ATTACH ALL IN-LINE DRIP TUBING TO BLANK LATERAL. MORE THAN TWO RELIEF VALVES MAY NEED TO BE INSTALLED PER SECTION

L DRIPLINE CONNECTION(PLAN)

SECTION VIEW - N.T.S.

M DRIP FLUSH VALVE

SECTION VIEW - N.T.S.

N DRIP AIR RELIEF VALVE

SECTION VIEW - N.T.S.

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

O PIPE INSTALLATION

SECTION VIEW - N.T.S.

DIMENSION	A	B	C	D
1 1/2" TO 6" IN SIZE	36"	24"	24"	4"

P SLEEVE INSTALLATION

SECTION VIEW - N.T.S.

NOTE:
WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

Q WIRE CONNECTION

SECTION VIEW - N.T.S.

R THRUST BLOCKING

NOTE: SUCTION PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FROM THE PUMP TO THE WELL TEE. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE

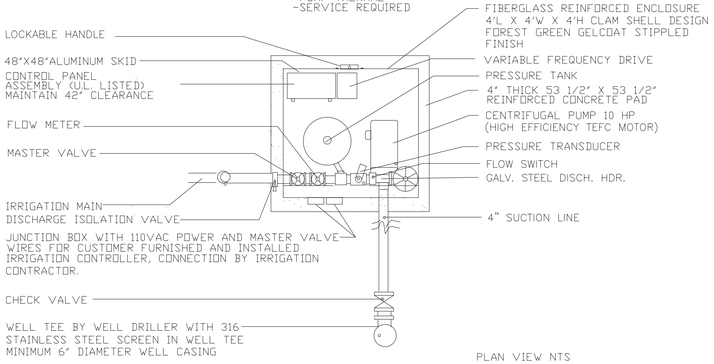
PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM

* FEATURES ARE INCLUDED IF MARKED WITH AN "X"
X VARIABLE FREQUENCY DRIVE
__ IRRIGATION CONTROLLER WITH RAIN SENSOR ON 8' POLE.
X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

B.C.H.C.E.D. REF. NO. 200617002 H

DRC
PZ22-12000027
12/03/2025

SAFETY FEATURES
PRESSURE DEMAND:
-TRANSIENT SURGE
-LOSS OF PRIME
-HIGH FLOW
-PUMP THERMAL
-SERVICE REQUIRED



PLAN VIEW NTS

ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE:
460V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 WYE 3-PHASE, 230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE.

PUMP PERFORMANCE
150 GPM @ 165 TDH, 60 PSI

HOOVER PUMPING MODEL: HCF-10PDV-230/3-M,W,Z
Pompano Beach, Florida, Tel: 954-971-7350

FILE PN15079.DWG 11/18

CENTRIFUGAL PUMP SYSTEM DETAIL

FIBERGLASS ENCLOSED SINGLE WELL SUCTION PRESSURE DEMAND VARIABLE FREQUENCY DRIVE HOOVER GREEN

*OR APPROVED EQUAL

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. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. 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.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED, SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 80 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.
11. 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.
12. 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.
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.
14. CONTRACTOR TO RECERTIFY EXISTING PUMP AND PVB IF APPLICABLE.
15. SYSTEM IS TO USE LOWEST QUALITY WATER AVAILABLE AT TIME OF INSTALLATION.
16. CONTROL SYSTEM TO PROVIDE ABILITY TO BE PROGRAMMED IN MINUTES, WEEKDAY, SEASON, AND TIME OF DAY.
17. IRRIGATION SYSTEM SHALL MAINTAIN AND OPERATE A RAIN SENSOR DEVICE OR SWITCH WITH 100% COVERAGE AND 50% OVERLAP THAT WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL OCCURS.
18. CHECK VALVES MUST BE INSTALLED AT IRRIGATION HEADS AS NEEDED TO PREVENT LOW HEAD DRAINAGE AND PUDDLING.
19. IRRIGATED AREAS SHALL NOT BE LESS THAN FOUR FEET WIDE, EXCEPT WHEN USING MICRO OR DRIP IRRIGATION.
20. NOZZLE PRECIPITATION RATES FOR ALL HEADS WITHIN EACH VALVE CIRCUIT MUST BE MATCHED TO WITHIN 20% OF ONE ANOTHER.
21. ALL IRRIGATION LINES - MAINLINE OR LATERAL LINES - SHALL BE SCHEDULE 40 PVC OR BETTER.

Michael D Grosswirth

Digitally signed by Michael D Grosswirth
DN: c=US, o=THOMAS ENGINEERING GROUP LLC, ou=A01410C00000172OE31831F0000EFAC, cn=Michael D Grosswirth
Date: 2022.08.22 09:07:34 -04'00'

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____

DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
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TAMPA, FL 33609
P: 813-379-1100
125 W INDIANTOWN RD.
SUITE 206
JUPITER, FL 33458
P: 561-203-7903

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REVISIONS:

REV:	DATE:	COMMENT:	BY:

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BUILDING PERMIT

PROJECT No.:	F190044
DRAWN BY:	JV
CHECKED BY:	MDG
DATE:	05-23-19
CAD I.D.:	F190044 - IRRIGATION PLAN-RETAIL & RACETRAC

PROJECT:

FESTIVAL MARKETPLACE POMPANO BEACH, FL

FOR

URBN DESIGN
696 NE 125TH STREET MORTH MIAMI, FL 33415

THOMAS ENGINEERING GROUP
6300 NW 31ST AVENUE
FORT LAUDERDALE, FL 33309
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH — LA 6666871 — STATE — REGISTERED LANDSCAPE ARCHITECT — August 22, 2022 — LICENSE NO. 6666871 — FLORIDA BUSINESS CERTIFICATE OF AUTH. No. 27528

SHEET TITLE:

IRRIGATION NOTES & DETAILS

SHEET NUMBER:

L-3.2

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MICHAEL D. GROSSWIRTH, LA6666871 ON 2022-08-19

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10/1/2025

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PZ22-12000027
10/5/2022

Plotted on Aug 22, 2022, 8:43 AM by Lauri Rayner
URBN DESIGN\PROJECTS\F190044 - FESTIVAL MARKETPLACE\CWD\SITE PLANS\2021-06-04 RETAIL AND RACETRAC\LANDSCAPE\RETAIL & RACETRAC - 08-18-2022\F190044 - IRRIGATION PLAN-RETAIL & RACETRAC------3x\LAYOUT: L-3.2 IRRIGATION NOTES & DETAILS