DEVONSHIRE BOULEVARD

LANDSCAPE AND IRRIGATION REFURBISHMENT PLANS "COLLIER COUNTY LANDSCAPE BEAUTIFICATION MASTER PLAN"

100% SUBMITTAL PLANS

(06-06-11)

PURCHASE ORDER #4500124715

PREPARED FOR COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS 3301 EAST TAMIAMI TRAIL NAPLES, FLORIDA 34112

COORDINATING AGENCY: ALTERNATIVE TRANSPORTATION MODES, PAMELA J. LULICH, ASLA, LANDSCAPE OPERATIONS MANAGER DARRYL RICHARD. ASLA MSTU PROIECT MANAGER NAPLES, FLORIDA 34104 (239) 253-6291



PREPARED BY:



bonita springs, florida 34135 phone: 239,390,1936 fax: 239 390 1937 scott@windhamstudio.com

JAMES C. ABNEY & ASSOCIATES
IRRIGATION CONSULTING, SITE OBSERVATION, SYSTEM AUDITING & MANAGEMENT 2984 44th STREET SW NAPLES, FLORIDA 34116 PHONE: (239) 353-8724 FAX: (239)353-1850

E-MAIL: JAAIDC2@aol.com

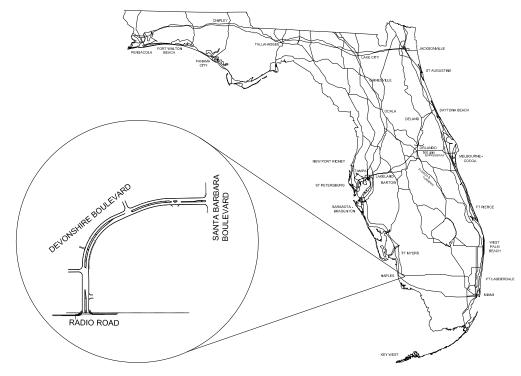


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Scott Windham, ASL/ Landscape Architect, RLA 0001516 WINDHAM

8891 brighton lane #112 bonita springs, florida 34135 phone: 239.390.1936 fax: 239.390.1937 scott @ windhamstudio.com

BOULEVAR **DEVONSHIRE**COLLIER COUNTY P.O. # 45

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UTILITY CONTRACT REFERENCES

GENERAL PROJECT DECLARATIONS:

and Collier County right-of-way ordinance .

. County will restrict construction during peak traffic hours. B. No clearing of any native vegetation will take place.

speed of 25mph using combination truck/trailer vehicles.

C. This project is in general compliance with Collier County Streetscape master plan

E. Intersection sight distance is in compliance with AASHTO guidelines for design

D. Collier County maintenance of traffic policy and FDOT "Roadway and Traffic Design Standards" index 600 series is located in the attached written contract documents.

Florida Power and Light Company 4105 15th Avenue SW Naples, Florida 34116 Mr. E. Hartley, Senior Designer

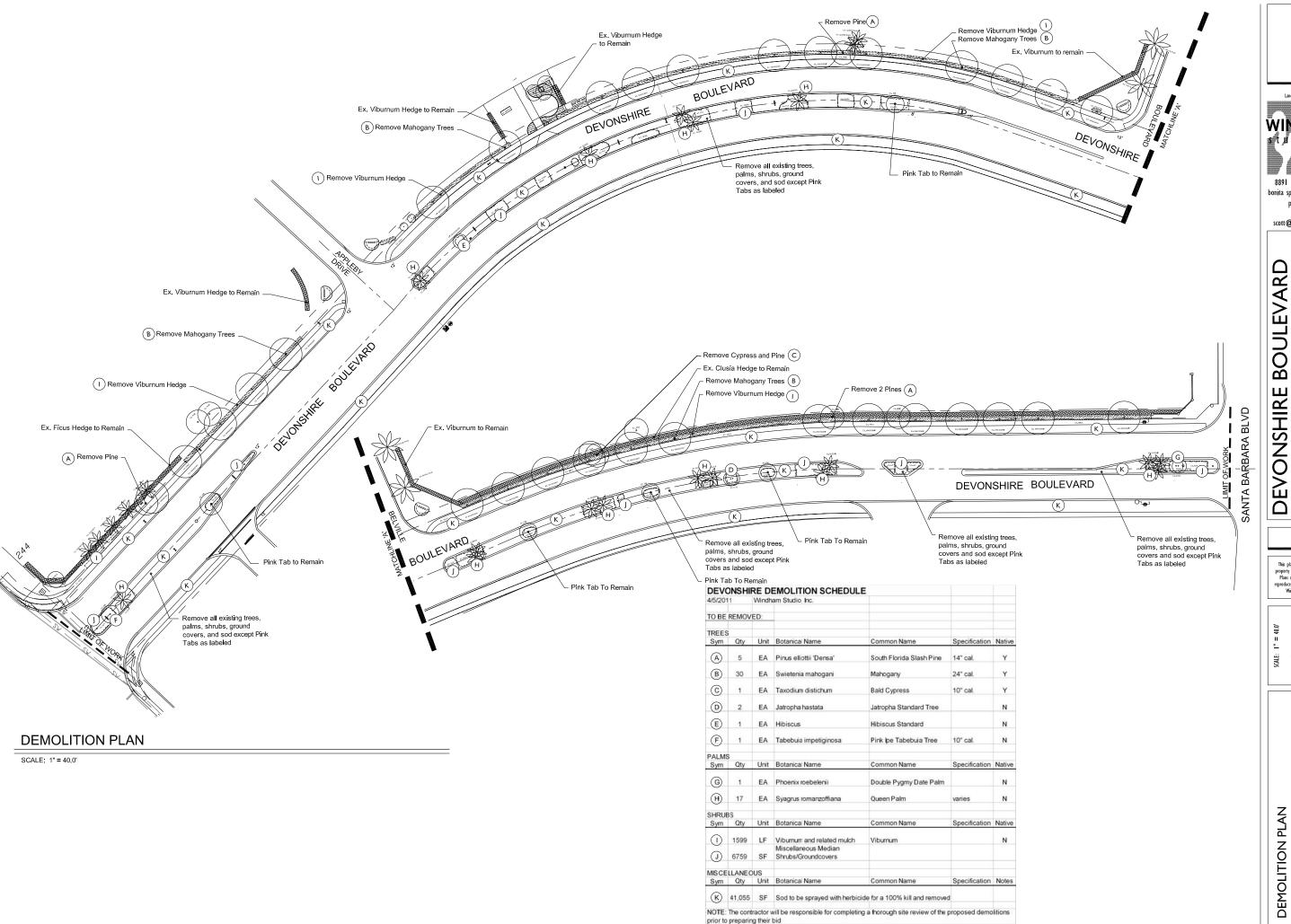
Collier County Public Utilities Division/ North Wastewater Plant Admin 6027 Shirley Street Naples, Florida 34109 George Yilmaz, Wastewater Department Director (239)597-5355

3301 East Tamiami Trail Naples, Florida 34112 Mr. Paul Mattausch, Water Department Director (239) 252-6112

Collier County Traffic Operations and Alternative Transportation Modes 2885 South Horseshoe Drive Naples, Florida 34104 Mr. Anthony Khawaia, Enginer-Traffic Operations (239) 252-8260

Investigate before you excavate, "Call Sunshine State One" Toll Free 1-800-432-4770,

Florida Statute 553.851 (1979) requires minimum of 2 days and maximum of 5 days notice before



Scott Windham, ASL Landscape Architect, RLA 0001510 WINDHAM 8891 brighton lane #112 bonita springs, florida 34135

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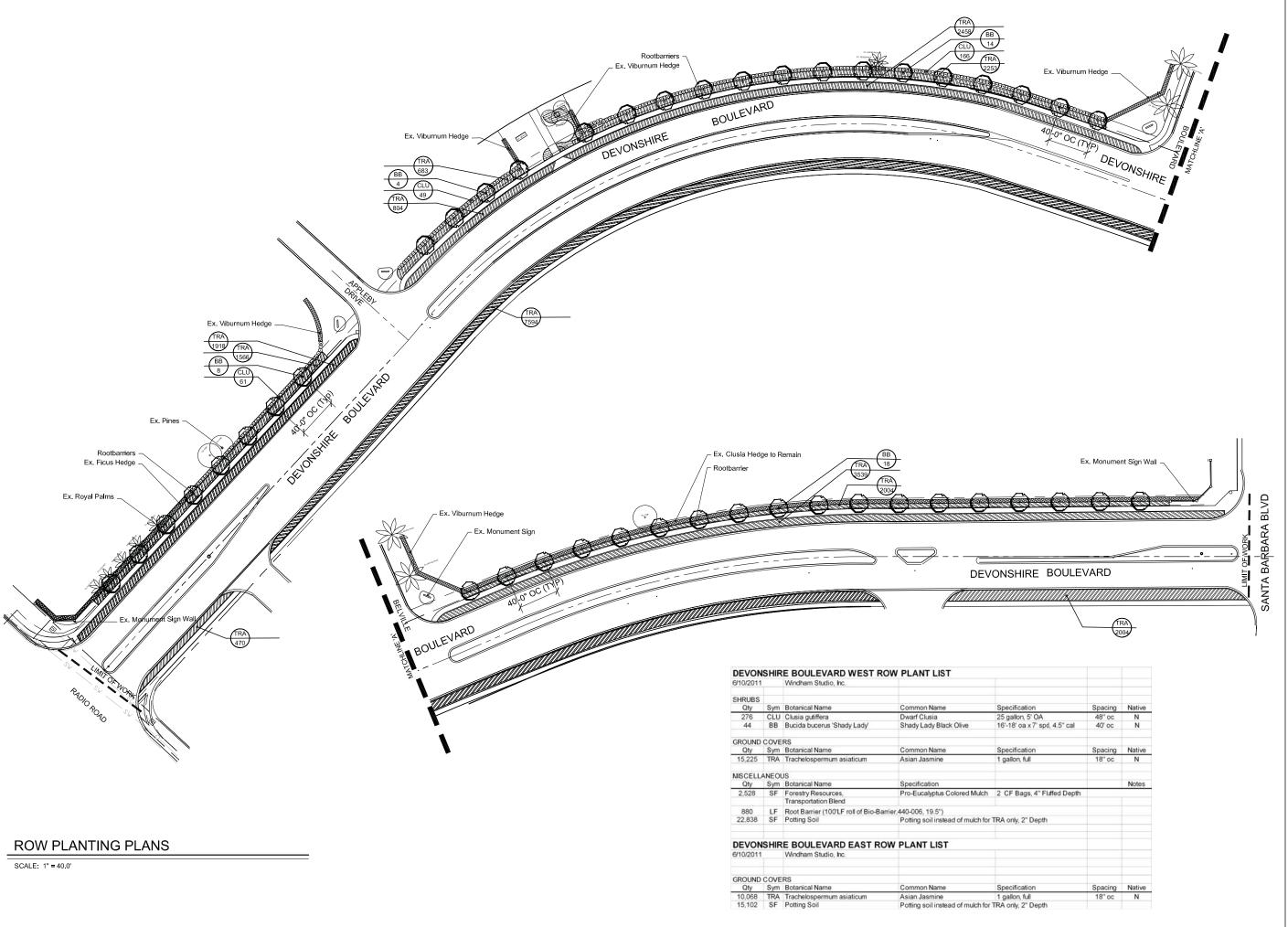
BOULEVARD

DEVONSHIRE BOU

JOB #: 013-10

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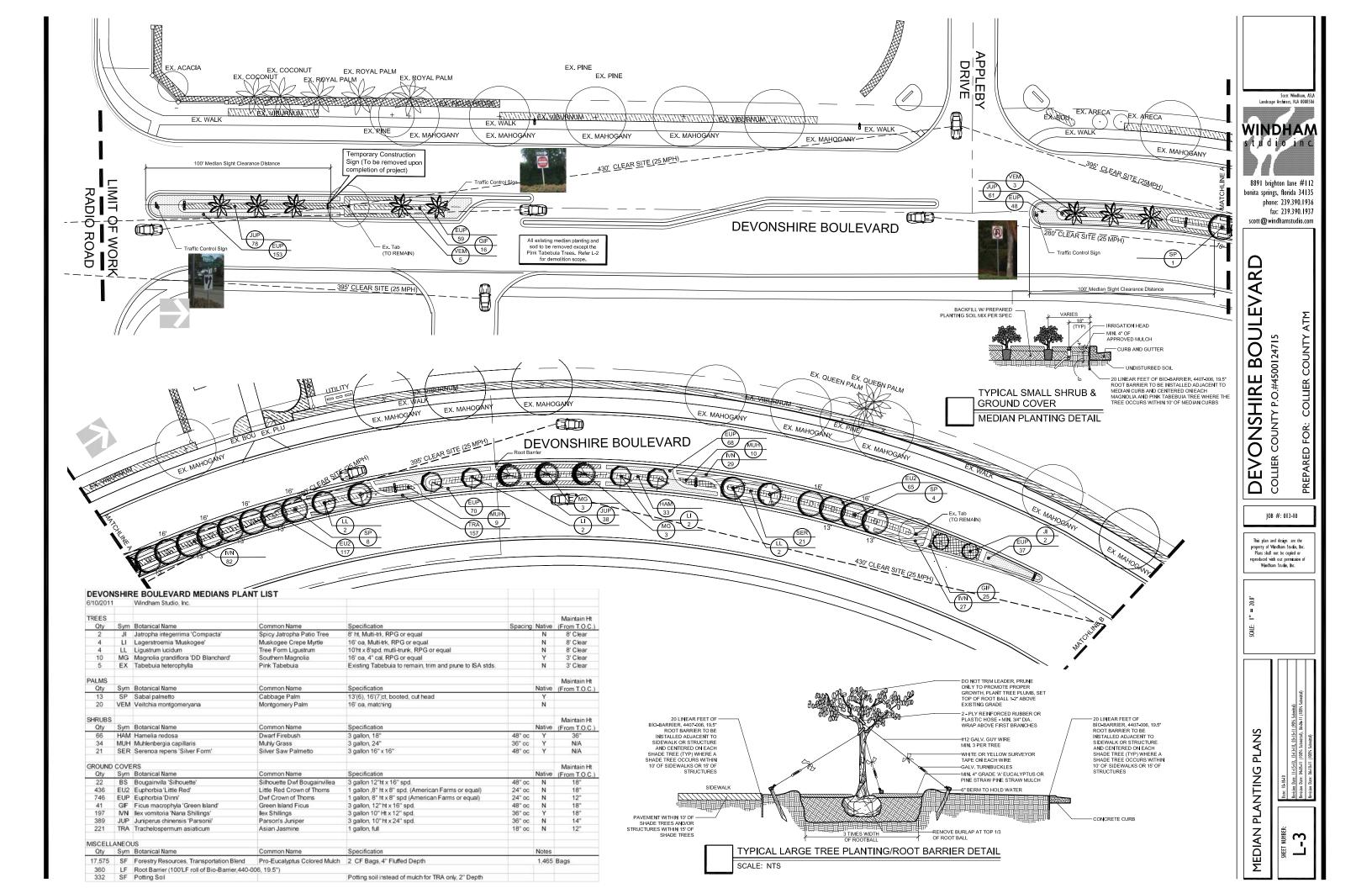
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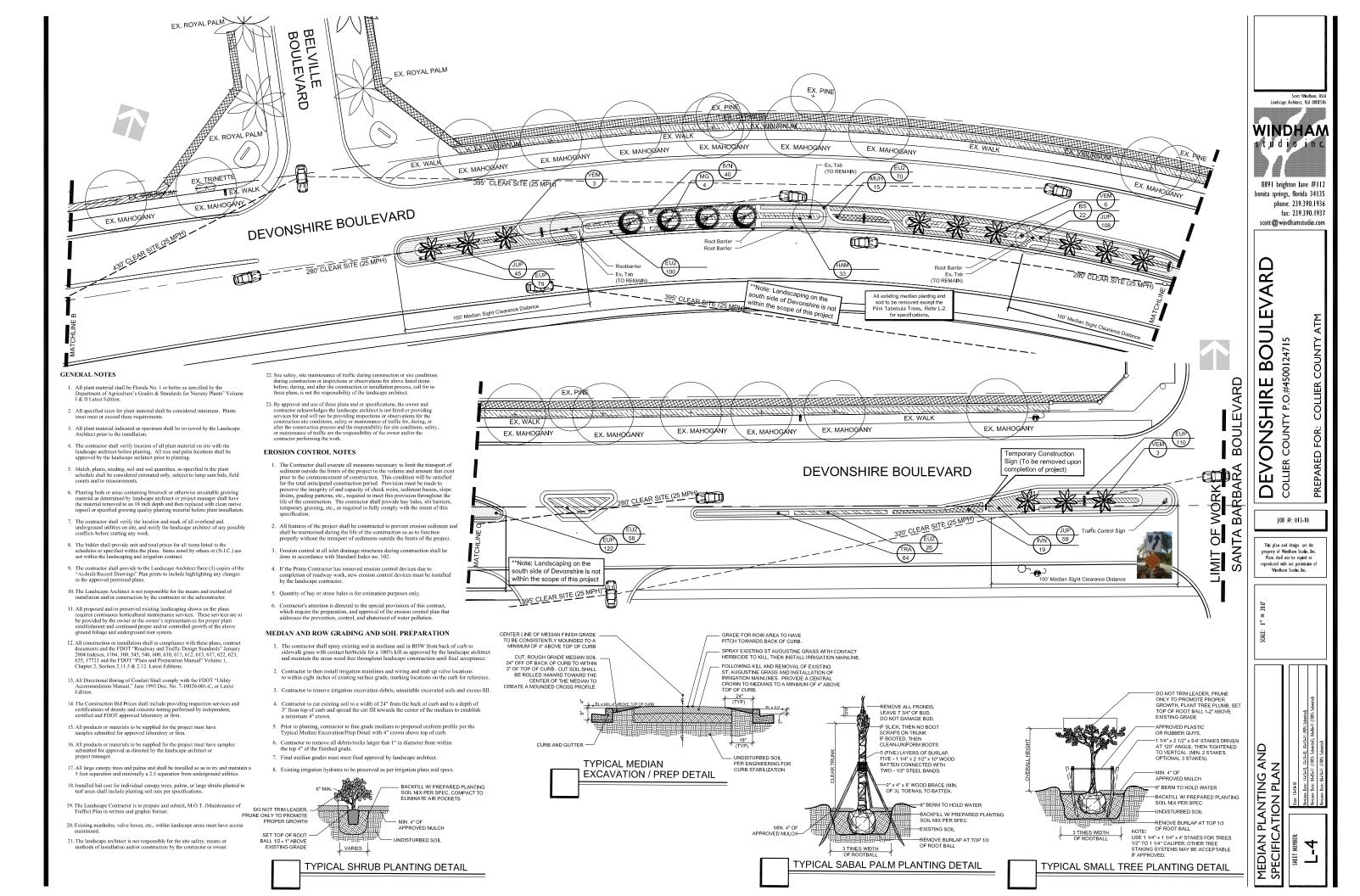


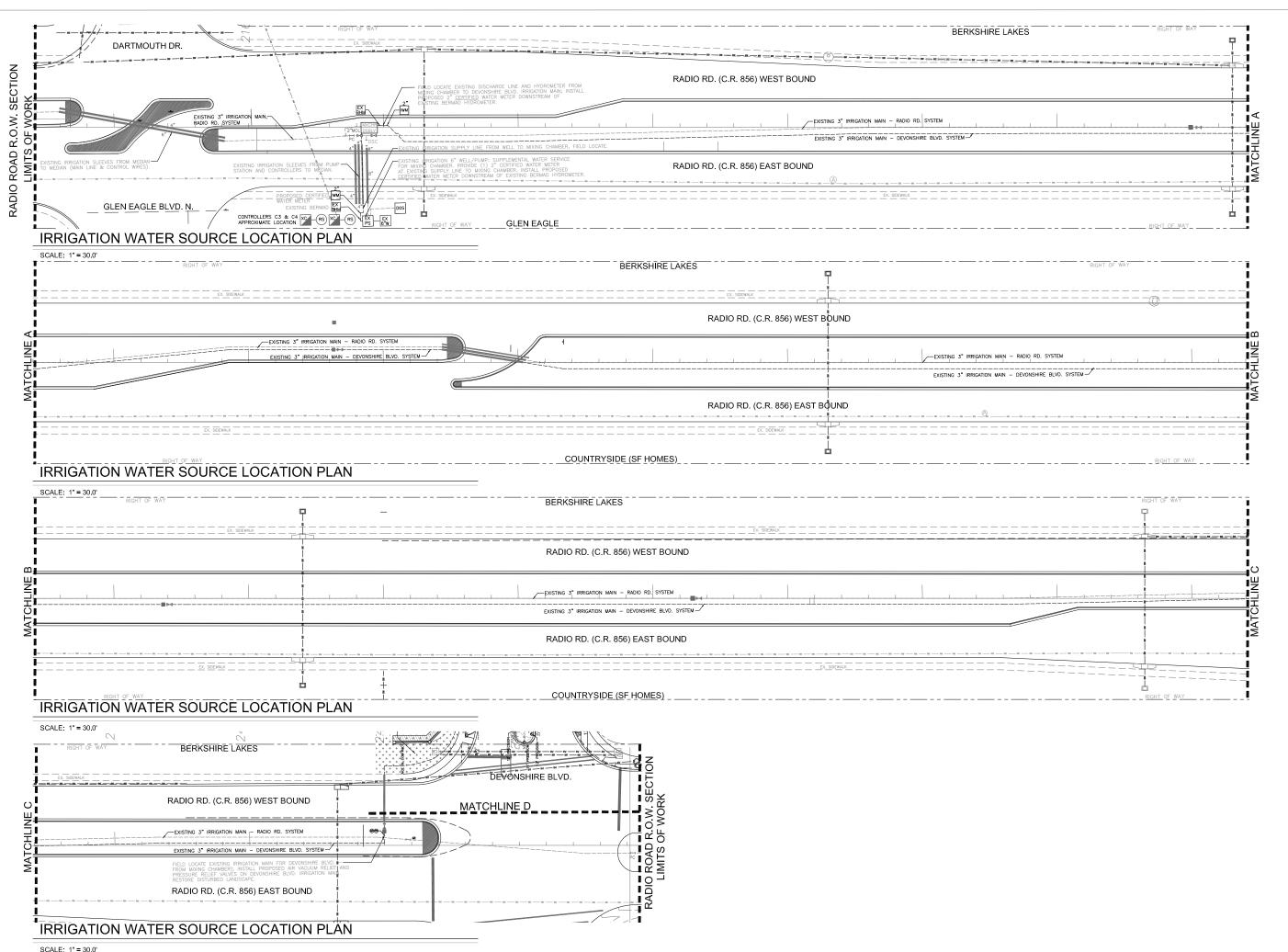


WAY PLANTING PLAN

RIGHT OF







Scott Windham, ASL Landscape Architect, RLA 0001514 WINDHAM studio inc

8891 brighton lane #112 bonita springs, florida 34135 phone: 239.390.1936 fax: 239.390.1937

scott@windhamstudio.com

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RRIGATION PLAN

IRRIGATION PLAN

SCALE: 1" = 20.0"

SYSTEM RENOVATION PHASING NOTES

- THE ENTIRE RIGHT OF WAY IRRIGATION SYSTEM PROPOSED FOR RENOVATION IS SHOWN FOR GRAPHIC CLARITY AND COMPLETE LAYOUT REFERENCE. THE WORK IS GOING TO BE DONE IN DIFFERENT PHASES. THE WORK TO BE DONE IN PHASES INCLUDES THE FOLLOWING ORDER
- INSTALL THE PROPOSED ZONE CONTROL VALVES; CONNECT THE PROPOSED ZONE CONTROL VALVES TO CONTROLLER CI, AND PROGRAM THE ZONES FOR ACTIVATION, PROVIDE THE LAKER BACK OF CURB, PRADVET THE NOZZLES FROM THE EXISTING PHORAMIS, AND REPUGACE WITH NOZZLES AS SPECIFED PER PLAN TORO PRECISION SERIES SPRAY NOZZLES. IT IS HIGHLY RECOMMENDED TO EXECUTE, WITHOUT, LOOKSTRUCT SMULTANEOUSLY PHASE 1 AND PHASE 1A
- RECOMMENDED TO EXECUTE/INISTALL/CONSTRUCT SMULTANEOUSLY PHASE 1 AND PHASE 1A.

 REMOVE ALL EXISTING ZONE CONTROL VALVES AND DUICK COUPLING VALVES, AND RETURN TO OWNER, PREPARE THE PROPOSED ZONE CONTROL VALVE CLUSTERS POINTS OF CONNECTION.

 CONSTRUCT AND INSTALL THE PROPOSED ZONE CONTROL VALVE SSEMBLY CLUSTERS; INSTALL THE NEW CONTROL WAS EXSEMBLY CLUSTERS; INSTALL THE NEW CONTROL WIRE FOR CONTROL WAS EXPENDED FOR PHASE 2 AND ALVES. AND CONNECT TO CONTROLLER C2; PROVIDE DIRECTIONAL BOAKS WORK REQUIRED FOR THE PHASE, PROVIDE THE PROVIDE DIRECTIONAL BOAKS WORK REQUIRED FOR THE PHASE, PROVIDE REMOVE THE CUSTING HYDRATIS AND REPLACE WITH 12 THEN PO-LIP WINDOWN SAY SEPCONDER, AND NOZIZIES SPECIFIED TORO PRECISION SERIES SPRAY NOZIZIES.

 SPECIFIED, AND NOZIZIES SPECIFIED TORO PRECISION SERIES SPRAY NOZIZIES.
- SPECIFIED, AND NOZZLES SPECIFED TORO PRECISION SERIES SPRAY NOZZLES.

 A. PREPARE THE PROPOSED SUBMAIN EXTENSION AND ZONE COXINED, VALVE POINTS OF CONNECTION; INSTALL THE PROPOSED 2° SUBMAIN EXTENSION SECTIONS, AND INTERCONNECT TO THE EXISTING SECTIONS, STEDULED FOR CONNECTION, ADSTRUCT AND INSTALL THE PROPOSED ZONE CONTROL WALVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED ZONE CONTROL WALVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED ZONE WALVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED ZONE WALVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED ZONE WALVE CONNECTION ASSEMBLES, CONNECT THE PROPOSED VALVES TO THE CONTROL WALVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED ZONE WALVE CONNECTION ASSEMBLES, CONNECT THE PROPOSED VALVES TO THE CONTROL WALVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED VALVES TO THE CONTROL WALVE CONNECTION ASSEMBLES, CONNECT THE PROPOSED VALVES TO THE CONTROL WALVE CONNECTION ASSEMBLES, CONNECT THE PROPOSED VALVES TO THE CONTROL WALVE CONNECTION ASSEMBLES, TO SHAPE ASSEMBLES ASSEMBLES

DISTURBED LANDSCAPE RESTORATION NOTE:
ALL EXISTING LANDSCAPE THAT IS DISTURBED BY THE PROPOSED CONSTRUCTION ACTIVITIES
SHALL BE RESTORED TO A CONDITION THAT IS ACCEPTABLE AND SATISFACTORY TO THE OWNER

GENERAL IRRIGATION NOTES

- PIPING AND OTHER IBRIGATION SYSTEM ELEMENTS ARE SHOWN ON PAMED OR OTHER NON-LANDSCAPE DESIGNATED AREAS FOR GRAPHIC CLASITY ONLY, ACTUAL LOCATION SHALL BE WITHIN LANDSCAPE DESIGNATED AREAS OR AS DRECTED BY LANDSCAPE ARCHITECT.

 THE IRRIGATION WATER SOURCE FOR THE ENTIRE SYSTEM IS AN EFFLUENT & WELL WATER MIXING CHAMBER THAT IS LOCATED ON THE RADIO RODA RIGHT OF WAY, IN FRONT OF THE GLE LEGLE EDVELOPMENT MORTH WITH WELL WATER THE REGROTION WATER WATER IS, PUMPED FROM THE MIXING CHAMBER LOCATION TO THE DEVONSHIRE BLVD. SYSTEM, WITH A CENTRICUCAL, 7.5 HP PLAMP THAT IS LOCATED ON TOP OF THE MIXING CHAMBER LOCATION TO THE MIXING CHAMBER LOCATION TO THE MIXING CHAMBER LOCATION TO THE MIXING SYSTEM, WITH A CENTRICUCAL, 7.5 HP PLAMP THAT IS LOCATED ON TOP OF THE MIXING SYSTEM SYSTEM, WITH A CENTRICUCAL, 7.5 HP PLAMP THAT IS LOCATED ON TOP OF THE MIXING SYSTEM SYSTEM WATER SOURCE TO THE DEVONSHIRE BLVD. SYSTEM THROUGH AND XESTING SYSTEM SYSTEM

GENERAL IRRIGATION NOTES

- PIRRICATION WATER IS COING TO BE PROVIDED TO THE PROPOSED SYSTEM RENOVATION ZONES BY VIRTUE OF (1) TAP, POC 41, AT THE EXISTING 3" EXISTING RIRICATION MAIN THAT OCCURS ALONG THE WEST SIDE OF THE DEVON-SHIPE EURO, (1) THE AST EXISTING ZONE CONTROL VALVE STUB—OUTS AS WELL AS EXISTING 2" SUBMAIN STUBDUTS DONE IN PIPING NETWORK MODIFICATIONS, AND (3) TAPS TO A PROPOSED 2" SUBMAIN STUBDUTS DONE IN PIPING NETWORK MODIFICATIONS, AND (3) TAPS TO A PROPOSED 2" SUBMAIN CONTROL TO COCUR ALONG THE DEVON-SHIPE BLUE. EAST SIDE RIGHT OF WAY, ALL CONNECTIONS TO THE DISTING MAIN AND SUBMAIN SHALL BE LEX-PROOF. MAIN AND SUBMAIN CONNECTIONS DONE WITH TAST SETTING SOLVENT WELD GLUE SHALL NOT BE ALLOWED, THEY WILL BE RESECTED.
- PROVIDE CLASS 150 SDR 11 HDPE CASINGS AS SIZED PER PLAN AT ALL EXISTING PAYED SURFACE CROSSINGS WHERE SUBMAIN, ZONE CONTROL WHEES AND LATERAL LINE PIPING ARE SCHEDULED TO OCCUR. USE 4" CASINGS FOR LATERAL LINE (FORSINGS, 2" CASINGS FOR CONTROL WER CROSSINGS. AT 4" CASINGS SCHEDULED FOR TWO LATERAL LINE TO GO THROUGH THE CASING DO NOT EXCED A SIZE OF 1-1/2" FOR EACH SECTION THAT GOES THROUGH THE CASING, USE ENTIRE PHIPM SECTIONS FOR GOING THROUGH CASINGS AT SIDEWALK CROSSINGS, DO NOT USE JOINTED PIPE SECTIONS WITHIN A CASING.
- PROVIDE CASING LOCATING BALLS AT EACH CASING END. IRRIGATION CASINGS SHALL EXTEND 7° BEYOND THE PAYEMENT LIMITS AT EDGE OF PAYEMENT WITH NO CURRING, 4° BEYOND THE EDGE OF PAYEMENT AT SIDEWALKS AND CROSSINGS WITH CURRING. SEAL ALL OPEN CASING OPENINIOS WITH SEALING FOAM.
- PROVIDE: (1) BUBBLER PER PROPOSED TREE/PAIM. THE BUBBLER SHALL BE PRESSURE COMPENSATIN FLOOD TYPE, ADJUSTABLE, ADJUST TO 1 GPM. THE BUBBLER SHALL BE PLACED AT THE EDGE OF THE COTTBALL, NOT NEXT TO THE TRUNK. BUBBLER HYDRANTS SHALL BE ZONGE SPEPARTE FROM OTHER
- IN THE EVENT THAT FIELD CHANGES HAVE TO BE MADE DUE TO CIRCUMSTANCES NOT KNOWN AND/OR FORESEEN AT THE TIME OF DESION, AND THE PROPOSED ZONES REDE TO BE MODIFIED, THE MAXIMUM FLOW DEBMON ALLOWABLE FOR ONE ZONE SHALL NOT EXCEED 35 GPM.
- FOR DC CONTROLLERS, PROVIDE (1) COMMON/GROUND SPARE WIRES PER SIX ZONE CONTROL VALVES AT EACH LEG OF THE ZONE CONTROL VALVES SECTION, PROVIDE (1) SPARE ACTIVE CONTROL WIRE AT EACH ZONE CONTROL VALVE CLUSTER, EXCEPT FOR THE FARTHEST CLUSTER (AT EACH LEG) WHERE (2) SPARE ACTIVE WIRES NEED TO BE PROVIDED.
- FOR AC CONTROLLER (C2) PROVIDE (2) COMMON/GROUND SPARE WIRES AT EACH LEG OF A ZONE CONTROL
 VALVES SECTION. THE SPARE COMMON/GROUND WIRES SHALL BE ACCESIBLE AT EVERY VALVE CLUSTER, PER
 DESIGNATE ID. E. PROVIDE (1) SPARE ACTIVE CONTROL WIRE AT EACH MEDIAN, AT EACH PHASE 3A VALVE
 LOCATION, AND (2) SPARE ACTIVE WIRES AT THE LAST MEDIANS OF EACH LEG. THE PROPOSED DC IRRIGATION CONTROLLER SHALL NOT BE INSTALLED MININ 100'± 0F AN OVERHEAD POWER LINE. A FACTORY TRANSHED TECHNICIAN SHALL REVIEW ALL CONNECTIONS DONE FRIOR TO THE INTIAL ACTIVATION, AND PERFORM THE INITIAL ACTIVATION. ALL CONTROLERS SHALL BE GROUNDED IN ACCORDANCE TO THE LATEST MANUFACTURES PSEPECHACIANS. THE PROPOSED CONTROLLER AND EXETING CONTROLLER SHALL BE REVIEWED BY THE TECHNICIAN. GROUNDING EQUIPMENT SHALL BE PROVIDED BY THE IRRIGATION CONTROLLER.
- DUE TO THE DISTANCE FROM THE EXISTING SYSTEM'S IRRIGATION WATER SQURCE AND THE LOCATION OF DISTONSHIRE BOULEVARD AS WELL AS THE HYDRAULD LIMITATIONS OF 3" HOPE & PIC PIPMIN REMONES IT IS NOT RECOMMENDED TO DESIGN/PROVIDE SQUES WITH FLOW DEMONS THAT EXCEED 35s OPH. THE SYSTEM MANAGER SHALL PROVIDE AN ACTIVATION SCHEDULING IN WHICH THE PROPOSED SCHES ARE ACTIVATED IN CONJUNCTION WITH THE EXISTING SOMES WITHOUT EXCEEDING A FLOW DEMAND OF 70-56 OPM.
- AT THE TIME OF DESIGN THERE WERE SOME DISTRING IRRIGATION ZONES AT THE DEPONSHIRE BOULEVARD
 EMIRES AND AT THE MEDIBEDIMHOOD EMIRES AND OTHER COMMON AREAS THAT ARE NOT PART OF THE
 EMISTING BUFFER/HEDGE ZONES AFFECTS THE COVERAGE TO THE EMIRES ZONES. THE PROPOSED DESIGN
 PROVIDES ASSIGNATION FOR ADDITIONAL ZONE CONTROL. VALVES THAT CAN BE INCORPORATED INTO THE
 PROPOSED SYSTEM ZEVANSION SO THAT THE ADDITIONAL ALTERNATE BID ZONES CAN BE DEDICATED TO
 PROVIDE THE COVERAGE NECESSARY FOR THE AREAS WHERE THE EXISTING COVERAGE MIGHT BE AFFECTED.
 DO NOT EXCELD A FLOW DEBAND OF 354 GPM FAIR ZONE.
- THE IRRICATION WHER METERS MUST BE CERTIFIED, AND BE AN EQUAL TO THE UNITS USED BY COLLER COUNTY UTILITIES. REFERENCE UNIT. E-MON C700 2" WATER METER WITH MASTER METE BOLAGO 30 IS INTERPRETER REGISTER. REFERENCE UNIT LOCATED AT WANDERBIL FRACH RODA, STATON 3004-39, EAST OF ISLAND WALL DEVELOPMENT. BIDDING CONTRACTORS MUST CONFIRM W/ COLLIER COUNTY UTILITIES FROM TO SUBMITTING BIOS.

REFERENCE IRRIGATION LEGEND

EX EX 6W 2" IWM

EXISTING DEVONSHIRE BLVD. IRRIGATION WATER SOURCE: EXISTING EFFLUENT/WELL WATER MIXING CHAMBER W/ PUME STATION LOCATED AT RADIO ROAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE. -D6S | MOXING CHAMBER RECHARGE SECONDARY WATER SOURCE: EXISTING 6" RRIGATION WELL W/ 7.5 HP PUMP, AND DISCHARGE GRAVEL SUMP. LOCATED AT RADIO ROAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE.

2° <u>Certified</u> irrigation water meter: install at existing pump station discharge line to mixing chamber, and at mixing chamber's discharge irrigation main. E-mon c700 2° water meter w/ master meter dialog 3g ds interpreter register Existing Bermad Hydrometer: Field locate and install proposed 2" certified water meters $5^{\circ}+/-$ downstream of existing Bermad Hydrometer. Refer to plan for location. Phase 1...

EXISTING RADIO ROAD IRRIGATION CONTROLLERS: LOCATED ADJACENT TO EXISTING IRRIGATION RECHARGE WELL AND PUMP STATION. SHOWN FOR REFERENCE ONLY. REFER TO PLAN FOR LOCATION GRAPHIC ILLUSTRATION. PHASE 1..

EXISTING IRRIGATION CONTROLLER: MOTORGLA AC SCORPIO CONTROLLER, WITH INVENTIONAL CONTROL WIRES TECHNOLOGY LOCATION SHOWN AS PER, McGEE & SOCIATES PLAN. CONTROLLER C2, TO BE USED FOR PHASE 2, MEDIAN ZONES ONLY ROPOSED IRRIGATION CONTROLLER C1: MOTOROLA DC "M" 36 STATION CONTROLLER TO E USED AS A SCORPIO UNIT. INCLUDE: SOLAR PANEL AND RECHARGABLE DEEP CYCLE ATTERY AND RAIN SENSOR. PHASE 1. REFER TO PLAN FOR PROPOSED LOCATION.

CONTROL WHE: AND SOLID COPPER INSULATED WIRE SUITABLE FOR DIRECT BURIAL APPLICATIONS. COMMON/GROUND, 12 GAUGE, SOLID WHITE PRIMARY COMMON/GROUND, 12 GAUGE, SOLID WHITE PRIMARY COMMON/GROUND, ACTIVE, 14 GAUGE, RED FOR PRIMARY LOWER OF THE PRANCE COMMON/GROUND, ACTIVE, 14 GAUGE, RED FOR PRIMARY COMMON/GROUND FOR EVERY SIX ZONE CONTROL VALVES; PREVISE (1) PRIMARY COMMON/GROUND FOR EVERY SIX ZONE CONTROL VALVES (PC) CONTROLLERS) INCLUDING THE PHASE A ZONE VALVES.

RADIO ROAD EXISTING 3" IRRIGATION MAIN: SHOWN FOR GRAPHIC REFERENCE ONLY.
LOCATION SHOWN PER PLAN IS APPROXIMATE, NOT CONFIRMED, FIELD LOCATE, PROTECT
AND PRESERVE DURING PHASE 1 EXCAVATION WORK. REPAIR IF DAMAGED DURING
PHASE 1 EXCAVATION WORK.

- DEVONSHIRE BLVO. EXISTING IRRIGATION MAIN & SUBMAIN: 3" FROM MIXING CHAMBER TO DEVONSHIRE BLVO. AND ALONG DEVONSHIRE BLVO. WEST R.O.W; 2" SUBMAIN AT DEVONSHIRE BLVO. SECTIONS THAT EXTEND INTO MEDIANS AND EAST ROW. REPET TO PLAN FOR LAYOUT — LAYOUT SHOWN IS APPROXIMATE, AS SHOWN PER MCGEE & ASSOCIATES FAIL. REPER TO PLAN FOR YIPES AND SIZES.

- DEVONSHIRE BLVD. PROPOSED 2" IRRIGATION SUBMAIN & ZONE CONTROL VALVE CLUSTER PIPING MANFOLD ASSEMBLES: CLASS 200 PANTONE PURPLE PVC FOR SUBMAIN EXTENSIONS; SCH 40 PVC FOR ZONE CONTROL VALVE CLUSTER MANFOLI ASSEMBLES. REFER TO PLAN AND NOTES FOR LAYOUT AND PHASING INFORMATION.

1" B C PROPOSED IRRIGATION LATERAL LINE PIPING: CLASS 200 PVC, PANTONE PURPLE 522C. REFER TO PLAN FOR PIPE SIZES. B = 1-1/4", BZ = 1-1/4" BUBBLER ZONE LATERAL LINE; C = 1-1/2", 15" MINIMUM DEPTH ACCEPTABLE. EXISTING IRRIGATION SYSTEM SLEEVE; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLANS FOR RADIO ROAD PHASE I AND DEVONSHIRE BOULEVARD, REFER TO AS-BUILT DIRECTIONAL BORES LOG FOR SIZE, DEPTH AND LENGTH CONFIRMATION. LOG IS IN CC DOT ARCHIVES.

■■■■ PROPOSED IRRIGATION SYSTEM SLEEVE; CLASS 150 SDR 11 HDPE EXTRAMOLECULAR STRENGTH HDPE CASING. DIRECTIONAL BORE INSTALLATION. RFFER TO PLAN FOR SIZES AND LOCATIONS.

REFERENCE IRRIGATION LEGEND

EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POINT OF DISCONNECTION - SEVER EXISTING MAIN/SUBMAIN PIPING STUB-OUT; REMOVE THE ELEMENT TO BE REMOVED; CAP THE OPEN PIPING STUB-OUT.

POC A EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: LATERAL LINE POINT OF CONNECTION — SEVER EXISTING LATERAL LINE PIPING DISCONNECTION — SEVER EXISTING LATERAL LINE PIPING DISCONNECT

DEXISTING IRRIGATION SYSTEM LATERAL LINE PIPING; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLAN, OR AS ASSUMED IF NOT SHOWN PER MCGCE & ASSOCIATES PLAN AS-BUILT PLAN AND/OR OTHER DATA THAT CONFIRMS EXISTING LATERAL LINE PIPE SIZES USED WAS NOT AVAILABLE AT THE TIME OF WIS DESIGN.

MEXISTING IRRIGATION MAIN & SUBMAIN ISOLATION VALVES TO REMANI.

R EXISTING RADIO ROAD IRRIGATION MAIN AIR VACUUM RELIEF VALVE TO REMANI PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN AIR VACUUM RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.

PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN PRESSURE RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST. EXISTING DEVONSHIRE BLVD. PRESSURE GAUGE TO REMAIN IF WORKING PROPERLY, AND NOT AFFECTED BY MAIN OR SUBMAIN PIPING RENOVATION.

EXISTING IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY TO REMAIN.

EXISTING DEVONSHIRE BLVD. 3" IRRIGATION MAIN SINGLE VALVE BLOW-OFF ASSEMBLY TO REMOVE AND RETURN TO THE OWNER. PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN DOUBLE VALVE BLOW-OFF ASSEMBLY. REFER TO INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND ELEMENTS

EXISTING COVERAGE REFERENCE LEGEND

PROPOSED DEVONSHIRE BLVD. QUICK COUPLING VALVE TO BE INSTALLED. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST. INSTALL AT THE END OF THE VALVES' ASSEMBLY CLUSTER FOR FLUSHING PURPOSES.

PROPOSED DEVONSHIRE BLVD. MEDIANS HYDRANT: TORO 570Z SERIES 12" HIGH POP-UP SPRAY HEAD WITH TORO PRECISION SERIES SPRAY NOZZLE. REFER TO PLAN AND NOTES FOR HYDRANT AND NOZZLE SPECIFICATIONS. PHASE 2.

PROPOSED DEVONSHIRE BLVD. R.O.W. EXISTING HYDRANT NOZZLE REPLACEMENT: TORI PROPOSED DEVONSHIRE BLVD. R.O.W. EXISTING HYDRANT NOZZLE REPLACEMENT: TOR PRECISION SERIES SPRAY NOZZLES, REMOVE EXISTING NOZZLES AND REPLACE WITH NOZZLES SPECIFIED. REFER TO PLAN FOR NOZZLE SIZES AND PATTERNS. PHASE 1A & 3A (HYDRANTS BETWEEN BACK OF CURB AND SIDEWALK, R.O.W. JASMINE ZONES).

PROPOSED DEVONSHIRE BLVD. SUPPLEMENTAL IRRIGATION BUBBLERS FOR PROPOSED TREES AND PALMS: TORO 53692, 0–2 GPM ADJUSTABLE FLOOD BUBBLER NOZZLE. (1) UNIT FER PROPOSED TREE & PAUM, AUSIST 10 TO FEW SETTING DURING INSTALLAND CONNECT BUBBLER HYDRANT ASSEMBLES TO 1–1/4* LATERAL LINE PIPING, REFER TO BUBBLER HYDRALIATION DETAIL FOR ASSEMBLY ILLUSTRATION AND PLACEMENT SPECIFICATIONS, PHASE 1, 2 & 3B.

PROPOSED DEVONSHIRE BLVD. MEDIANS SPRAY HYDRANT TO BE REMOVED. REMOVE EXISTING SPRAY HYDRANT, AND REPLACE WITH PROPOSED 12" SPRAY HYDRANT AND NOZZLE SPECIFIED. PHASE 2.

PHASE 2—INSTALLATION PHASE. --PROPOSED ZONE CONSTRUCTION PHASE C1-3 ——CONTROLLER NUMBER - VALVE NUMBER.

1.25" ——ZONE CONTROL VALVE SIZE. PHASE.

SLEEVE/HDPE MAIN
SECTION NUMBER.
SLEEVE/HDPE MAIN
SECTION LENGTH.

PR .50" — ESTIMATED APPLICATION RATE,
IN INCHES PER HOUR
WEST — PROPOSED ZONE HYDRATION AREA. -SLEEVE/HDPE MAIN RED ------DESIGNATED CONTROL WIRE COLOR.

1-28 ——FUTURE PHASE BID POTENTIAL ZONE INFORMATION BOX.
1.25" ——ZONE CONTROL VALVE SIZE.

-HYDRANT TYPE APPLICATION, TO BE DETERMINE POR EXISTING DEVONSHIRE BLVD. ZONE CONTROL AND QUICK COUPLING VALVE TO REMOVE AND RETURN TO THE OWNER. —ESTIMATED APPLICATION RATE, TO BE DETERMINED, IN INCHES PER HOUR
 —PROPOSED ZONE HYDRATION AREA.

PROPOSED DEVONSHIRE BLVD. ZONE CONTROL VALVE TO BE INSTALLED IN FUTURE PHASE(S). REFER TO PLAN AND SPECIFICATIONS FOR INSTALLATION COMPONENTS LIST.

EXISTING DEVELOPMENT ENTRIES AND RESIDENTIAL AREAS ENTRY/COMMON AREA
IRRIGATION COVERAGE APPROXIMATE AREA, DESIGN LAYOUT RECORD DRAWNIGS SIT
AVAILABLE OF ROYEW AT THE MIC OF DESIGN, AND "INCORPORATE INTO PROPTHE REMOVAL OF THE EXISTING HEDGE/BUFFER ZONES, AND THE OWNER APPR
FOR ADDITIONAL DESIGN AND STSTEM ZONE/EXISTING INSTALLATION.

EVONSHIR

JOB #: 013-10

COLLIER

COUNTY P.O.#45001247

Scott Windham, ASL Landscape Architect, RLA 0001510

WINDHAM

studio in c

8891 brighton lane #112

bonita springs, florida 34135

scott @ windhamstudio com

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phone: 239.390.1936

fax: 239.390.1937

COLLIER COUNTY

PREPARED FOR:

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PLAN

RRIGATION

IR-2

SCALE: 1" = 20.0'

SYSTEM RENOVATION PHASING NOTES

- THE ENTIRE RIGHT OF WAY IRRIGATION SYSTEM PROPOSED FOR RENOVATION IS SHOWN FOR GRAPHIC CLARTY AND COMPLETE LAYOUT REFERENCE. THE WORK IS GOING TO BE DONE IN DIFFERENT PHASES. THE WORK TO BE DONE IN PHASES INCLUDES THE FOLLOWING ORDER:
- PHASE 1A: INSTALL THE PROPOSED ZONE CONTROL. VALVES, CONNECT THE PROPOSED ZONE CONTROL.

 WILES TO CONTROLLER CI. AND PROPOSAN THE ZONES FOR ACTIVATION. BYONDE THE LATENAL LINE PIPMS MODIFICATIONS FOR THE PHASE ZONES (TURF ZONES BETWEEN THE SIDEMAK AND BACK OF CURB), REMOVE THE NOZZES FROM THE EXTRING HYDRANS, AND REPLACE WITH NOZZLES AS SPECIFIED PER PLAN TORO PRECISION SERIES SPRAY NOZZLES, IT IS HIGHELY RECOMMENDED TO SECULIFICATION, CONSTRUCT SIMULTANEOUSLY PHASE 1 AND PHASE 1.
- RECOMMENDED TO EXECUTE/INISTAL/CONSTRUCT SIMULTANEOUSLY PHASE 1 AND PHASE 1A RELOVED ALL EXISTING ZONE CONTROL VALVES AND QUICK COUPLING WAVES, AND REFURN TO OWNER, PREPARE THE PROPOSED ZONE CONTROL VALVE CLUSTERS POINTS OF CONNECTION, CONSTRUCT AND INISTALL THE PROPOSED ZONE CONTROL VALVE SESSIMILY CLUSTERS; INSTALL THE NEW CONTROL WAVE SESSIMILY CLUSTERS; INSTALL THE NEW CONTROL WAVE SESSIMILY CLUSTERS; INSTALL THE NEW CONTROL WAVE STAND CONNECTION CONTROL WAVE ALVES, AND CONNECTION CONTROL WAVE ALVES, AND CONNECT TO CONTROLLER C.S. PROVIDED RECEIVONAL BROSES MORE REQUIRED FOR THE PHASE, PROVIDE TRANSPORT OF THE PHASE, PROVIDE THE PHASE SESSIMILY CLUSTERS OF T
- SPECIFIED, AND NOZZLES SPECIFED TORO FRECISION SERIES SPRAY NOZZLES, RR-REPARE THE REPOPOSED SUBMIN EXTENSION AND ZONE CONTROL VALVE POINTS OF
 CONNECTION, INSTALL THE PROPOSED 2" SUBMIN EXTENSION SECTIONS, AND INTERCONNECT
 TO THE EXISTING SECTIONS SCHOULED FOR CONNECTION, SCHOOL SECTIONS, AND INTERCONNECT
 THE PROPOSED ZONE CONTROL WAVE CONNECTION ASSEMBLES, INSTALL THE PROPOSED ZONE
 VALVE CONNECTION ASSEMBLY, CONNECT THE PROPOSED VALVES TO THE CONTROL WIRE
 (INSTALLED DURING PHASE 2); PROVIDE THE LATERAL LINE PIPING MODIFICATIONS FOR THE
 PHASE ZONES, CUTIEF ZONES EXTENSIVE THE LATERAL LINE PIPING MODIFICATIONS FOR THE
 PHASE ZONES, CUTIEF ZONES SETWENT HE SISTEMAL AND BACK OF CUTIEF), REMOVE THE
 PHASE TO THE PHASE STATEMAN SET OF THE SECTION INSTALL THE THE PHASE AND SET OF THE
 PHASE TO THE PHASE STATEMAN SET OF THE SECTION INSENTITE OF THE SECTION INSENTITE
 SYSTEM WAS EXPERIENCIAND VERY HIGH PRICHON (PRESSURE) LOSSES DUE TO THE SIZE OF
 THE EMISTING SOURCES, MEPROVARDISTS FOR THE SECTION THE
 EXISTING SOURCES, MEPROVARDISTS FOR THE SECTION AS ZONE ARE SHOWN TO PROVIDE
 EXCESSIVE FRICTION LOSSES, AND PRESSIVE SURGE POTENTIAL WITHIN THE EXISTING SYSTEM.

DISTURBED LANDSCAPE RESTORATION NOTE:
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- DESIGNATION AREA OF AS DIRECTED BY DUDUCIONE ARCHITECT.

 HE RIRIGATION WATER SOURCE FOR THE ENTIRE SYSTEM IS AN EFFLUENT & WELL WATER MIXING CHAMBER THAT IS LOCATED ON THE RADIO ROAD RIGHT OF WAY, IN FRONT OF THE GERN EAGLE DEVLLOPMENT NORTH ENTRY. THE MIXING CHAMBER SERVES THE PURPOSES OF MIXING STORNO EFFLUENT WATER AND MIXING TWITH WELL WATER. THE IRRIGATION WATER WATER IS DUMBED FROM THE MIXING CHAMBER LOCATION TO THE DEVONSHIRE BLOY, SYSTEM, WITH A CENTRICULAR 7.5 HP PUMP THAT IS LOCATED ON TOP OF THE MIXING CHAMBER. THE IRRIGATION WATER IS DULYRED TO THE DEVONSHIRE BLOY, BLOY SUPPLY LIKE SOURCE TO THE OFFICE OF THE IRRIGATION WATER IS DULYRED TO THE OFFICE OF THE IRRIGATION WATER SOURCE TO DEVONSHIRE BLOY, BLOY SUPPLY LIKE SOURCE TO DEVONSHIRE BLOY, BLOY SUPPLY LIKE SOURCE TO DEVONSHIRE BLOY, BLOY SUPPLY LIKE SOURD TO DEVONSHIRE BLOY, BLOY SUPPLY LIKE SOUND DEVONSHIRE BLOY, BLOY SUPPLY LIKE SOUND DEVONSHIRE BLOY THE MIXING SAFE PLOW DEBAND FOR THE IRRIGATION TO TRAVEL THROUGH THE

GENERAL IRRIGATION NOTES

- IRRIGATION WATER IS GOING TO BE PROVIDED TO THE PROPOSED SYSTEM RENOVATION ZONES BY VIRTUE OF (1) TAP, POC. \$1, AT LEE EXISTING 3° EXISTING IRRIGATION MAIN THAT OCCURS ALONG THE WEST SIDE OF THE EDVONSHIPE RUD., (1) TAPS AT EXISTING Z'ONE CONTRIO, VALVE STUB-OUTS A WELL AS EXISTING Z'S SUBMAIN STUBOUTS DONE IN PIPING NETWORK MODIFICATIONS, AND (3) TAPS TO A PROPOSED Z'S SUBMAIN STUBOUTS DONE IN PIPING EXTENSION DESIGNATED TO OCCUR ALONG THE DEVONSHIRE BUYO. EAST SIGE RIGHT OF WAY. ALL CONNECTIONS TO THE EXISTING MAIN AND SUBMAIN SHALL BE LEXPEROUP. THEY MILE BE REJECTED.
- PROVIDE CLASS 150 SER 11 HDPE CASINGS AS SIZED PER PLAN AT ALL EXISTING PAVED SURFACE
 CROSSINGS WHERE SUBMAN, ZONE CONTROL WRIES AND LITERAL LINE PIPING ARE SCHEDULED TO OCCUR.
 AT 4" CASINGS SCHEDULED FOR TWO LITERAL LINE TO CO THROUGH THE CASING. DON'T EXCEED A SIZE
 OF 1-/2" FOR EACH SECTION THAT GOES THROUGH THE CASING. USE ENTIRE PIPING SECTIONS FOR
 COINT THROUGH CASINGS AT SUSPEMAL KORSSINGS, DO NOT USE COINTED PIPE SECTIONS WITHIN A CASING.
- PROVIDE: (1) BUBBLER PER PROPOSED TREE/PALM. THE BUBBLER SHALL BE PRESSURE COMPENSATING FLOOD TYPE, ADJUSTABLE, ADJUST TO 1 GPM. THE BUBBLER SHALL BE PLACED AT THE EDGE OF THE ROOTBALL, NOT NEXT TO THE TRUNK. BUBBLER HYDRANTS SHALL BE ZONDD SEPARATE FROM OTHER
- IN THE EVENT THAT FIELD CHANGES HAVE TO BE MADE DUE TO CIRCUMSTANCES NOT KNOWN AND/OR FORESEEN AT THE TIME OF DESION, AND THE PROPOSED ZONES NEED TO BE MODIFIED, THE MAXIMUM FLOW DEMAND ALLOWAGE FOR ONE ZONE SHALL NOT EXCEED 35 GPM.
- FOR DC CONTROLLERS, PROVIDE (1) COMMON/GROUND SPARE WIRES PER SIX ZONE CONTROL VALVES AT EACH LEG OF THE ZONE CONTROL VALVES SECTION, PROVIDE (1) SPARE ACTIVE CONTROL WIRE AT EACH ZONE CONTROL VALVE CLUSTER, EXCEPT FOR THE FARTHEST CLUSTER (AT EACH LEG) WHERE (2) SPARE ACTIVE WIRES NEED TO BE PROVIDED.
- FOR AC CONTROLLER (C2) PROVIDE (2) COMMON/GROUND SPARE WIRES AT EACH LEG OF A ZONE CONTROL
 WAVES SECTION. THE SPARE COMMON/GROUND WIRES SHALL BE ACCESSIBLE AT EVERY VALVE CLUSTER, PER
 DESIGNATED LEG PROVIDE (1) SPARE ACTIVE CONTROL WIRE A EACH MEDIAN, AT EACH PHASE 3A VALVE
 LOCATION, AND (2) SPARE ACTIVE WIRES AT THE LAST MEDIANS OF EACH LEG.
- THE PROPOSED DC IRRIGATION CONTROLLER SHALL NOT BE INSTALLED WITHIN 100'± OF AN OVERHEAD POWER LINE. A FACTORY TRAINED TECHNICIAN SHALL REVIEW AL CONNECTIONS DONE PRIOR TO THE INITIAL ACTIVATION, AND PERFORM THE INITIAL ACTIVATION, ALL CONTROLLERS SHALL BE GROUNDED IN ACCORDANCE TO THE LATEST MANUFACTURES PSECHICATIONS. THE PROPOSED CONTROLLER AND EXISTING CONTROLLER SHALL BE REVIEWED BY THE TECHNICIAN. GROUNDING EQUIPMENT SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
- DUE TO THE DISTANCE FROM THE EXISTING SYSTEM'S IRRIGATION WATER SOURCE AND THE LOCATION OF DEVOISHIRE BOULZMAND AS WELL AS THE HYDRAULU SIMILATIONS OF 37 HIPPE & PIOC PIPMON INTHONESS IT IS NOT RECOMMENDED TO DESIGN/PROVIDE 2016S WITH FLOW DEWNOS THAT DESCEED 35± GPM. THE SYSTEM MANAGER SHALL PROVIDE AN ACTIVATION SCHEDULING IN WHICH THE PROPOSED ZONES ARE ACTIVATED IN CONJUNCTION WITH THE EXISTING ZONES WITHOUT EXCEEDING A TUDO DEWNNO OF DEWNNO OF
- AT THE TIME OF DESIGN THERE WERE SOME DISTING PRICES WITHOUT EXCELLING A FLOW DEMAND OF US 47 THE TIME OF DESIGN THERE WERE SOME DISTING RIGIGATION, JONES AT THE DEVONSHIER BOULEARAD ENTRIES AND AT THE NICHHORNHOOD ENTRIES AND OTHER COMMON AREAS THAT ARE NOT PART OF THE EXIST OF WAY SYSTEM DESIGNED BY MEGET AND ASSOCIATES. IN THE EVENT THAT THE REMOVAL OF THE EXISTING BUFFER/HEDGE ZONES AFFECTS THE COVERAGE TO THE ENTRIES ZONES, THE PROPOSED DESIGN PROVIDES ASSOCIATION FOR ADDITIONAL ZONE CONTRIOL WALVES THAT CAN BE INCOPPORATED INTO THE PROPOSED SYSTEM EXPANSION SO THAT THE ADDITIONAL ALTERNATE BID ZONES CAN BE DEDICATED TO PROVIDE THE COVERAGE NICESSEAY FOR THE AREAS WHERE THE EXISTING COVERAGE MIGHT BE AFFECTED DO NOT EXCEED A FLOW DEMAND OF 35± GPM PER ZONE.
- THE IRRIGATION WATER METERS MUST BE CERTIFIED, AND BE AN EQUAL TO THE UNITS USED BY COLLIER COUNTY UTILITIES. REFERENCE UNIT: E-MON C700 Z "WATER WETER WITH MASTER METER DIALGO SO DS INTERPRETER REGISTER. REFERENCE UNIT LOCATED AT VANDERBIL FEACH AROA, STATION 3904-29, STAT OF SILAND WALK DEVICE/PRENT, BIDDING CONTRACTORS MUST CONFIRM W/ COLLIER COUNTY UTILITIES PRIOR TO SUBMITTING BIDS.

REFERENCE IRRIGATION LEGEND

ATER MIXING CHAMBER W/ PUMP STATION LOCATED AT RADIO ROAD. REFER TO PLAN OR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE. EXISTING MIXING CHAMBER RECHARGE SECONDARY WATER SOURCE: EXISTING 6" IRRIGATION WELL W/ 7.5 HP PUMP, AND DISCHARGE GRAVEL SUMP, LOCATED AT ROAD, REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE

2" CERTIFIED IRRIGATION WATER METER: INSTALL AT EXISTING PUMP STATION DISCHARGE

EXISTING RADIO ROAD IRRIGATION CONTROLLERS: LOCATED ADJACENT TO EXISTING IRRIGATION RECHARGE WELL AND PUMP STATION. SHOWN FOR REFERENCE ONLY. REFER TO PLAN FOR LOCATION GRAPHIC ILLUSTRATION. PHASE 1...



EXISTING IRRIGATION CONTROLLER: MOTOROLA AC SCORPIO CONTROLLER, WITH CONVENTIONAL CONTROL WIRES TECHNOLOGY. LOCATION SHOWN AS PER, MAGGE & ASSOCIATES PLAN. CONTROLLER C2, TO BE USED FOR PHASE 2, MEDIAN ZONES ONLY.



PROPOSED IRRIGATION CONTROLLER C1: MOTOROLA DC "M" 36 STATION CONTROLLER TO SE USED AS A SCORPIO UNIT. INCLUDE: SOLAR PANEL AND RECHARCABLE DEEP CYCLE SATTERY AND RAIN SENSOR. PHASE 1. REFER TO PLAN FOR PROPOSED LOCATION. CONTROL WIRE AWS SOULD COPPER INSULATED WIRE SUITABLE FOR DIRECT BURIAL APPLICATIONS. COMMON/ROROUND, 12 GAUGE. SOULD WHITE PRIMARY COMMON/ROROUND, WHITE WYCOLD STRIPE SPARE COMMON/ROROUND, CATUE: 14 CAUGE, RED FOR PHASE 1 & 2 ZONE CONTROL WALVES: DRAWEE; PHASE IA & 3A ZONE CONTROL WALVES: BUILE AND GREEN ACTVE SPARES, PROVIDE (1) PRIMARY COMMON/ROROUND FOR EXERT SIX ZONE CONTROL WALVES (DC CONTROLLERS) INCLUDING THE PHASE A ZONE VALVES.

RADIO ROAD EXISTING 3" IRRIGATION MAIN: SHOWN FOR GRAPHIC REFERENCE ONLY. LOCATION SHOWN PER PLAN IS APPROXIMATE, NOT CONFIRMED. FIELD LOCATE, PROTECT AND PRESENCE DURING PHASE 1 EXCAVATION WORK. REPAIR IF DAMAGED DURING PHASE 1 EXCAVATION WORK.

DEVONSHIRE BLVD. EXISTING IRRIGATION MAIN & SUBMAIN: 3" FROM MIXING CHAMBER TO DEVONSHIRE BLVD. AND ALONG DEVONSHIRE BLVD. WEST R.O.W.; 2" SUBMAIN EVONSHIRE BLVD. SECTIONS THAT EXTEND INTO MEDIMEN AND EXT. R.O.W. REFER TO PLAN FOR LAYOUT - LAYOUT SHOWN IS APPROXIMATE, AS SHOWN PER MCGEE & ASSOCIATES PLAN. REFER TO PLAN FOR TYPES AND SIZES.

DEVONSHIRE BLVD. PROPOSED 2" IRRIGATION SUBMAIN & ZONE CONTROL VALVE CLUSTER PIPING MANIFOLD ASSEMBLIES: CLASS 200 PANTONE PURPLE PVC FOR SUBMAIN EXTENSIONS; SCH 40 PVC FOR ZONE CONTROL VALVE CLUSTER MANIFOLD ASSEMBLIES. REFER TO PLAN AND NOTES FOR LAYOUT AND PHASING INFORMATION. PROPOSED IRRIGATION LATERAL LINE PIPING: CLASS 200 PVC, PANTONE PURPLE 522C. REFER TO PLAN FOR PIPE SIZES. B = 1-1/4°, BZ = 1-1/4° BUBBLER ZONE LATERAL LINE; C = 1-1/2°. 15" MINIMUM DEPTH ACCEPTABLE.

EXISTING IRRIGATION SYSTEM SLEEVE; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLANS FOR RADIO ROAD PHASE I AND DEVONSHIRE BOULEVARD. REFER TO AS-BUILT DIRECTIONAL BORES LOG FOR SIZE, DEPTH AND LENGTH CONFIRMATION. LOG IS IN CC DOT ARCHIVES.

REFERENCE IRRIGATION LEGEND

SYMBOL	DESCRIPTION
POC #	DEVONSHIRE BLVD. EXISTING IRRIGATION SYSTEM POINT OF CONNECTION: TAP
	AND TAP INTO IT WITH TAPPING SADDLE (POC #1); ZONE CONTROL VALVE TO BE REMOVED, AND TAP INTO MAIN OR SUBMAIN STUBOUT (POC #2 THROUGH POC #13.
O CAP	EXISTING IRRICATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POD, POINT OF DISCONNECTION — SEVER EXISTING PIPING BETWEEN EXISTING HYDRANTS (DASHED LINE), AND CAP OPEN PIPING SECTIONS.
CAP	EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POINT OF DISCONNECTION — SEVER EXISTING MAIN/SUBMAIN PIPING STUB—OUT REMOVE THE ELEMENT TO BE REMOVED; CAP THE OPEN PIPING STUB—OUT.

| COI | COI | AEXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: LATERAL LINE POINT OF CONNECTION SEVER EXISTING LATERAL LINE PIPING PROVIDE LASTING LATERAL LINE SIZED SCH 40 PVC TEE; INTERCONNECTI PROPOSED LATERAL LINE SIZED SCH 40 PVC TEE; INTERCONNECTI PROPOSED

DEXISTING IRRIGATION SYSTEM LATERAL LINE PIPING; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLAN. OR AS ASSUMED IF NOT SHOWN PER MCGEE & ASSOCIATES PLAN. AS-BUILT PLAN AND/OR OTHER DATA THAT CONFIRMS EXISTING LATERAL LINE PIPE SIZES USED WAS NOT AVAILABLE AT THE TIME OF WIS DESIGN.

INTERISTING IRRIGATION MAIN & SUBMAIN ISOLATION VALVES TO REMANI.

PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN AIR VACUUM RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.

PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN PRESSURE RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.

EXISTING DEVONSHIRE BLVD. PRESSURE GAUGE TO REMAIN IF WORKING PROPERLY, AND NOT AFFECTED BY MAIN OR SUBMAIN PIPING RENOVATION.

EXISTING IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY TO REMAIN.

DH(U)

EXISTING COVERAGE REFERENCE LEGEND

SYMBOL	DESCRIPTION
0	PROPOSED DEVONSHIRE BLVD. QUICK COUPLING VALVE TO BE INSTALLED. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST. INSTAL AT THE END OF THE VALVES' ASSEMBLY CLUSTER FOR FLUSHING PURPOSES.

PROPOSED DEVONSHIRE BLVD. MEDIANS HYDRANT: TORO 570Z SERIES 12" HIGH POPUP SPRAY HEAD WITH TORO PRECISION SERIES SPRAY NOZZLE. REFER TO PLAN AND NOTES FOR HYDRANT AND NOZZLE SPECIFICATIONS. PHASE 2.

PROPOSED DEVONSHIRE BLVD. R.O.W. EXISTING HYDRANT NOZZLE REPLACEMENT: TORO PRECISION SERIES SPRAY NOZZLES: REMOVE EXISTING NOZZLES AND REPLACE WITH NOZZLES SPECIFICED. REFER TO PLAN FOR NOZZLE SZES AND PATERNS. PHASE 1A & 3A (HYDRANTS BETWEEN BACK OF CURB AND SIDEWALK, R.O.W. JASMINE ZONES).

PROPOSED DEVONSHIRE BLVD. SUPPLEMENTAL IRRIGATION BUBBLERS FOR PROPOSED TREES AND PALLS: TORO 53692, 0-2 GPM ADJUSTABLE FLOOD BUBBLER NOZIZE. (1) CHUIT FER PROPOSED TITEE & PAUM, AUSIST 10 1 GPM SETTING DURING INSTALLATION. CONNECT BUBBLER HYDRANT ASSEMBLES TO 1-1/4" LATERAL LINE PPING. REFER TO BUBBLER INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND PLACEMENT SPECIFICATIONS. PHASE 1, 2 & 3B.

PROPOSED DEVONSHIRE BLVD. MEDIANS SPRAY HYDRANT TO BE REMOVED. REMOVE EXISTING SPRAY HYDRANT, AND REPLACE WITH PROPOSED 12" SPRAY HYDRANT AND NOZZLE SPECIFIED. PHASE 2.

PHASE 2—INSTALLATION PHASE.

-SLEEVE/HDPE MAIN DIAMETER/SIZE.

PHASE 1	PROPOSED ZONE CONSTRUCTION PHASE
C1-3	CONTROLLER NUMBER - VALVE NUMBER.
1.25"	ZONE CONTROL VALVE SIZE.
20 GPM	ESTIMATED FLOW DEMAND.
ROTORS	
PR .50"	ESTIMATED APPLICATION RATE,
WEST -	IN INCHES PER HOUR PROPOSED ZONE HYDRATION AREA.

PHASE.

SLEEVE/HDPE MAIN SECTION NUMBER.

4" 45' SLEEVE/HDPE MAIN SECTION LENGTH.

HASE 1 — PROPOSED ZONE CONSTRUCTION PHASE

1-29 — FUTURE PHASE BID POTEINIAL ZONE INFORMATION BOX.

1,25° — ZONE CONTROL VALVE SIZE.

50° GPM — MANIMAR FLOW DEMAND FLOW DEMAND FOR ZONE.

1100 — HYDRANT TYPE APPLICATION, TO BE DETERMINED.

1100 — STANDER PROPOSED ZONE HYDRATION AREA. TO BE DETERMINED,

1100 — STANDER PROPOSED ZONE HYDRATION AREA.

-DESIGNATED CONTROL WIRE COLOR.

EXISTING DEVELOPMENT ENTRIES AND RESIDENTIAL AREAS ENTRY/COMMON AREAS IRRIGATION COVERAGE APPROXIMATE AREA DESIGN LAYOUT RECORD DEARNINGS NO AVAILABLE FOR REVIEW AT THE TIME OF DESIGN, MAY INCORPORATE INTO PROPROSI AND ANALIZED FOR REVIEW AT THE TIME OF DESIGN AND INCORPORATE INTO PROPROSI AND ANALIZED FOR THE PROPROMINED AND ANALIZED FOR THE PROPROSI AND ANALIZED FOR THE DESIGN AND STREET ZONE/ELBERTS INSTALLATION.

BOUL COUNTY P.O.#4500124715 **EVONSHIRE**

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EVAI

JOB #: 013-10

COLLIER $\overline{\Box}$

Scott Windham, ASL Landscape Architect, RLA 0001510

WINDHAM studio in c

8891 brighton lane #112 bonita springs, florida 34135 phone: 239.390.1936

scott @ windhamstudio.com

fax: 239.390.1937

COLLIER COUNTY

PREPARED FOR:

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PLAN

RRIGATION

R-3

SCALE: 1" = 20.0'

SYSTEM RENOVATION PHASING NOTES

- THE ENTIRE RICHT OF WAY IRRIGATION SYSTEM PROPOSED FOR RENOVATION IS SHOWN FOR GRAPHIC CLARITY AND COMPLETE LAYOUT REFERENCE. THE WORK IS GOING TO BE DONE IN DIFFERENT PHASES THE WORK TO BE DONE IN PHASES INCLUDES THE FOLLOWING ORDER:
- TO BE DONE IN PHASES INCLUDES THE FOLLOWING ORDER:

 INSTALL (2) 2", C'ESTIFIEN MARTER METERS NEAR THE MATER SOURCE (MIXING CHAMBER);
 INSTALL THE PROPOSED AIR VACCIUM RELIEF, AND PRESSURE RELIEF VALVES AT THE RADIO
 ROAD AND DEVONSHIRE BLUO, CLOATIONS, REMOVE THE SINGLE VALVE MAN LINE LEUM—OFF
 AT THE END OF DEVONSHIRE BLUO, INSTALL THE PROPOSED DOUBLE VALVE MAN LINE
 BLUM—OFF ASSEMENT, REMOVE ALL EUSTING ZOUE CONTROL VALVE AND LINES COUPLING
 REMOVE ALL HYDRAM'S LOCATED WEST OF OF THE WEST SIDE SIDE RIGHT OF WAY, RETURN TO
 CONSTRUCT AND INSTALL THE PROPOSED ZONE CONTROL VALVE ASSEMBLY CLUSTERS; INSTALL
 THE CONNESSONORN PHASE SOME CONTROL VALVE ASSEMBLY CLUSTERS; INSTALL
 CONTROL WIRE, INCLUDING THE WIRE FOR PHASES IA & 18: INSTALL THE PROPOSED
 CONTROL WIRE, INCLUDING THE WIRE FOR PHASES IA & 18: INSTALL THE PROPOSED
 PROVIDE ANY TYPE OF PIPHING WORK NECESSARY TO KEEP EXISTING ZONES TO REMAIN WORKNEY
 PROVIDE MAY TYPE OF PIPHING WORK NECESSARY TO KEEP EXISTING ZONES TO REMAIN WORKNEY
 PROVIDE ANY TYPE OF PIPHING WORK NECESSARY TO KEEP EXISTING ZONES TO REMAIN WORKNEY
 PROVIDE ALL DIRECTIONAL BORE AND SLEEVING WORK NECESSARY FOR THE PHASE IC 20NES,
 PROVIDE ALL DIRECTIONAL BORE AND SLEEVING WORK NECESSARY FOR THE PHASE.
- A: INSTALL THE PREPOSED ZONE CONTROL VALVES, COMMECT THE PROPOSED ZONE CONTROL

 AND STATE OF COMPOSITE OF THE PROPOSED PROPOSED TO THE CONTROL

 LIKE PIPMIC MODIFICATIONS FOR THE PHASE ZONES (THEY ZONES BETWEEN THE SERWALK AND

 BACK OF CURP), REMOVE THE NOZIZES FROM THE EDISTRICH HOPMAINS, AND REPLACE WITH

 NOZIZES AS SPECIFIED PER PLAN TORO PRECISION SERIES SPRAY NOZIZES. IT IS HIGHLY

 RECOMMENDED TO DECEUTE/RIGHTAL/CONSTRUCT SWALLTAKEOUSEY PHASE T AND PHASE TA
- RECOMMENDED TO EXECUTE/INISTRALL/CONSTRUCT SINULIAR/COST. PHASE I AND PHASE I A
 REMOVE ALL ESTINIOS ZONE CONTINOL VALVES AND DOUGHC COUPLING VALVES, AND RETURN TO
 OWNER, PREPARE THE PROPOSED ZONE CONTROL VALVE CLUSTERS POINTS OF CONNECTION.
 CONSTRUCT AND INSTALL. THE PROPOSED ZONE CONTROL VALVES SESSIMELY CLUSTERS; INSTALL THE
 CONTROL WIRE FOR CONTROLLER C2, INCLUDING FOR PHASE AS A VALVES, AND CONNECT TO
 COMPROLLER C2, PROVIDE DIRECTIONAL BIORES WORK FOR PHASE AS A VALVES, AND CONNECT TO
 CONTROLLER C2, PROVIDE DIRECTIONAL BIORES WORK FOR PHASE AS A VALVES, AND CONNECT TO
 CONTROLLER C2, PROVIDE DIRECTIONAL BIORES WORK FOR PHASE AND LAUSES, AND CONNECT TO
 CONTROLLER C3, PROVIDE DIRECTIONAL BIORES WORK FOR PHASE TAKES, CLAIM LEDIAN ZONES);
 REPLATED, LER PHASE MODIFICATIONS FOR THE PHASE ZONES (CLAIM LEDIAN ZONES);
 REPLATED, LER PHASE MODIFICATIONS FOR THE PHASE ZONES (CLAIM LEDIAN ZONES);
 REPLATED, LER PHASE MODIFICATIONS FOR THE PHASE ZONES SPECIFICATION CONTROLLER CASES PHASE NOZICLES.

 SPECIFICATION ON DOZICLES SPECIFIED TORD PRECISION SERIES PHASE NOZICLES.

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- DESIGNATED AREA OR AS DIRECTED BY LANDSCAPE, ARCHITECT.

 HE RIRCATION WATER SOURCE FOR THE ENRIES SYSTEM IS AN EFFLUENT & WELL WATER MINING CHAMBER THAT IS LOCATED ON THE RADIO ROAD RIGHT OF WAY, IN FRONT OF THE GLEN EAGLE DEVELOPMENT NORTH ENTITY. THE MINING CHAMBER SEVENS THE PURPOSES OF MINING STORMO EFFLUENT WATER AND MINING THE WITH WATER AND MINING THE WATER AND MINING THE WATER THE RIRCATION WATER WATER IS PUMPED FROM THE MINING CHAMBER LOCATION TO THE EVONOSHINE BLOV, SYSTEM, WITH A CENTRIGUGAL 15.5 HEP PUMP THAT IS LOCATED ON TOP OF THE MINING CHAMBER. THE RIRCATION WATER IS DELIVERED TO THE DEVONSHINE BLVO. SYSTEM THROUGH AN EXISTING 3" CLASS 200 PCC SUPPLY LINE DUE TO THE OISTANCE FROM THE RIRCATION WATER SOURCE TO DEVONSHIRE BLVO. THE MINING MARE FLOW DEMAND FOR THE RIRCATION TO TRAVEL THROUGH THE 3" EXISTING TO SUPPLY LINE SHOULD NOT EXCEED 804/- GPM.

GENERAL IRRIGATION NOTES

- IRRIGATION WATER IS GOING TO BE PROVIDED TO THE PROPOSED SYSTEM RENOVATION ZONES BY VIRTUE OF (1) TAP, POC. §1, AT THE EXISTING 3" EXISTING IRRIGATION MAIN THAT OCCURS ALONG THE WEST SIDE OF THE DEVONSHIPE BUILD, (1.5) TAPS AT EXISTING 2'ONE, CONTROL VIAUE STUDE-OUTS A WELL AS EXISTING 2'S SUBMAN STUBBUTS DONE IN PIPMO NETWORK MODIFICATIONS, AND (3) TAPS TO A PROPOSED 2" SUBMAN PIPMO DETERMON DESIGNATED TO OCCUR ALONG THE DEVONSHIPE BUILD. ESTS TO KENGT OF WAY. ALONG AL
- PROVIDE CLASS 150 SDR 11 HDPE CASINGS AS SIZED PER PLAN AT ALL EXISTING PAVED SURFACE CROSSINGS WHERE SUBMAIN, ZONE CONTRIOL WIRES AND LATERAL LINE PIPHIG ARE SCHEDULED TO OCCUR. USE 4" CASINGS FOR LATERAL LINE CROSSINGS. 2" CASINGS FOR CONTRIOL WIRE CROSSINGS. AT 4" CASINGS SCHEDULED FOR TWO LATERAL LINE TO GO THROUGH THE CASING DO NOT EXCEED A SIZE OF 1-1/2" FOR EACH SECTION THAT GOES THROUGH THE CASING, USE ENTIRE PIPMS SECTIONS FOR GOING THROUGH CASINGS AT SIDEWALK CROSSINGS, DO NOT USE JOINTED PIPE SECTIONS WITHIN A CASING.
- PROVIDE: (1) BUBBLER PER PROPOSED TREE/PAIM. THE BUBBLER SHALL BE PRESSURE COMPENSATING FLOOD TYPE, ADJUSTABLE, ADJUST TO 1 OPM. THE BUBBLER SHALL BE PLACED AT THE EDGE OF THE ROOTBALL, NOT NEXT TO THE TRUNK. BUBBLER HYDRANTS SHALL BE ZONED SEPARATE FROM OTHER HYDRANTS.
- IN THE EVENT THAT FIELD CHANGES HAVE TO BE MADE DUE TO CIRCUMSTANCES NOT KNOWN AND/OR FORESEEN AT THE TIME OF DESIGN, AND THE PROPOSED ZONES NEED TO BE MODIFIED, THE MAXIMUM FLOW DEMAND ALLOWABLE FOR ONE ZONE SHALL NOT EXCEED 35 GPM.
- FOR DC CONTROLLERS, PROVIDE (1) COMMON/GROUND SPARE WRISE PER SIX ZONE CONTROL VALVES AT EACH LEG OF THE ZONE CONTROL VALVES SECTION. PROVIDE (1) SPARE ACTIVE CONTROL WRIE AT EACH ZONE CONTROL VALVE CLUSTER, EXCEPT FOR THE FARTHEST CLUSTER (AT EACH LEG) WHERE (2) SPARE ACTIVE WIRES NEED TO BE PROVIDED.
- FOR AC CONTROLLER (C2) PROVIDE (2) COMMON/GROUND SPARE WIRES AT EACH LEG OF A ZONE CONTROL
 VALVES SECTION. THE SPARE COMMON/GROUND WIRES SHALL BE ACCESSIBLE AT EVERY VALVE CLUSTER, PER
 DESIGNATED LEG. PROVIDE (1) SPARE ACTIVE CONTROL WIRES AT EACH MEDIAN, AT EACH PHYSE 3A VALVE
 LOCATION, NO (2) SPARE ACTIVE WIRES AT THE LAST WEDIANS OF EACH LEG.
- THE PROPOSED DC IRRIGATION CONTROLLER SHALL NOT BE INSTALLED WITHIN 100'± OF AN OVERHEAD POWER LINE. A FACTORY TRANED TECHNICIAN SHALL REVIEW AL CONNECTIONS DONE PRIOR TO THE INITIAL ACTIVATION, AND PERFORM THE INITIAL ACTIVATION. ALL CONTROLLERS SHALL BE GROUNDED IN ACCORDANCE TO THE LINEST MANAFACTURES PSECUPICATIONS. THE PROPOSED CONTROLLER AND ESTIME CONTROLLER SHALL BE PROVIDED BY THE TECHNICIAN. GROUNDING EQUIPMENT SHALL BE PROVIDED BY THE IRRIGATION CONTROLLER.
- THE PROPOSED RAIN SENSORS SHALL BE INSTALLED IN OPEN AREAS CLEAR OF STRUCTURAL AND/OR VEGETATIVE OBSTRUCTION AND IRRIGATION COVERAGE. SET THE RAIN SENSOR SHUT OFF SENSING MARK TO 25° AS THE SHUT OFF POINT.
- DUE TO THE DISTANCE FROM THE EXISTING SYSTEM'S IRRIGATION WATER SOURCE AND THE LOCATION OF DEVONSHIRE BOULEVARD AS WELL AS THE HYDRAULIC LIMITATIONS OF 3" HOPE & PVC PIPINN NETWORKS IT IS NOT RECOMMENDED TO DESIGN/PROVIDE ZONES WITH FLOW BOANDS THAT EXCEED 35± 0PM. THE SYSTEM MANAGER SHALL PROVIDE AN ACTIVATION SCHEDULING IN WHICH THE PROPOSED ZONES ARE ACTIVATED IN CONJUNCTION WITH THE EXISTING ZONES WITHOUT EXCEEDING A FLOW DEMAND OF 70± 0PM.
- ACTIVATED IN CONJUNCTION WITH THE EXISTING ZONES WITHOUT EXCEEDING A FLOW DEMAND OF 70± GPM AT THE TIME OF DESIGN THESE WRIES GAME GIVENING REPROATION. ZONES AT THE DEVONSHIPS BOULLEARD ENTIRES AND AT THE INECHEDOPHOOD ENTIRES AND OTHER COMMON AFERS THAT ARE NOT PART OF THE BIGHT OF WAY SYSTEM DESIGNED BY MOSE AND ASSOCIATES. IN THE EMPORTH THIS REMOVAL OF THE EXISTING BUFFER/HEDGE ZONES AFFECTS THE COVERAGE TO THE ENTIRES ZONES, THE PROPOSED DESIGN PROVIDES ASSOCIATION FOR ADDITIONAL ZONE CONTROL VALUES THAT CAN DE INCORPORATED INTO THE PROPOSED SYSTEM EXPANSION SO THAT THE ADDITIONAL ALTERNATE BID ZONES CAN BE DEDICATED TO PROVIDE THE COVERAGE NECESSARY FOR THE AREAS WHERE THE EXISTING COVERAGE MIGHT BE AFFECTED. DO NOT EXCEED A FLOW DEMAND OF 35± GPM PER ZONE.
- THE IRRIGATION WATER METERS MUST BE CERTIFIED, AND BE AN EQUAL TO THE UNITS USED BY COLLIER COUNTY UTILINES. REFERENCE UNIT: E-MON 0700 2° WATER METER WITH MASTER METER DALGO GO DS INTERPRETER REGISTER. REFERENCE UNIT LOCATED AT VANDERBIL PEACH PAGA, STATION 3904-29, EAST OF ISLAND WALK DEVILOPMENT. BIDDING CONTRACTORS MUST CONFIRM W/ COLLIER COUNTY UTILITIES PRIOR TO SUMMITTING BIDS.

REFERENCE IRRIGATION LEGEND

EXISTING DEVONSHIRE BLVD. IRRIGATION WATER SOURCE: EXISTING EFFLUENT/WELL WATER MIXING CHAMBER W/ PUMP STATION LOCATED AT RADIO ROAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE.

2" IWM

FOR LOCATION AND PHOSE 1 IMPROVEMENTS TO BE DONE.

EXISTING MIXING CHAMBER RECHARGE SECONDARY WATER SOURCE: EXISTING 6"

EXISTING MIXING CHAMBER RECHARGE SECONDARY WATER SOURCE: EXISTING 6"

RIGIGATION WILL W/ 7.5 HP PUMP, AND DISCHARGE GRAVEL SUMP. LOCATED AT RADIO

ROAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE. 2" <u>Certified</u> irrigation water meter: install at existing pump station discharge line to mixing chamber, and at mixing chamber's discharge irrigation main. E-mon c700 2" water meter w/ master meter dialog 3g ds interpreter register

EXISTING BERMAD HYDROMETER: FIELD LOCATE AND INSTALL PROPOSED 2" CERTIFIED WATER METERS 5"+/- DOWNSTREAM OF EXISTING BERMAD HYDROMETER. REFER TO PLAN FOR LOCATION, PMSE 1..

EXISTING RADIO ROAD IRRIGATION CONTROLLERS: LOCATED ADJACENT T IRRIGATION RECHARGE WELL AND PUMP STATION. SHOWN FOR REFERENCE ONLY. REFER TO PLAN FOR LOCATION GRAPHIC ILLUSTRATION. PHASE 1..

EXISTING IRRIGATION CONTROLLER: MOTOROLA AC SCORPIO CONTROLLER, WITH CONVENTIONAL CONTROL WIRES TECHNOLOGY, LOCATION SHOWN AS PER, McGEE & ASSOCIATES PLAN. CONTROLLER C2, TO BE USED FOR PHASE 2, MEDIAN ZONES ONLY. PROPOSED IRRIGATION CONTROLLER C1: MOTOROLA DC "M" 36 STATION CONTROLLER TO BE USED AS A SCORPIO UNIT. INCLUDE: SOLAR PANEL AND RECHARCABLE DEEP CYCLE BATTERY AND RAIN SENSOR. PHASE 1. REFER TO PLAN FOR PROPOSED LOCATION.

CONTROL WIRE: AWG SOLID COPPER INSULATED WIRE SUITABLE FOR DIRECT BURIAL APPLICATIONS. COMMON/GROUND, 12 GAUGE. SOLID WHITE FRHMARY COMMON/GROUND, WHITE WYCOLOG STRIPE SPARE COMMON/GROUND, CATURE, 14 GAUGE. RED FOR PRICE 1 & 2 ZONE CONTROL WALVES; GRANGE, PHASE IA & 33 ZONE CONTROL WALVES; BULL AND GREEN ACTURE SPARES. PROVIDE (1) PRIMARY COMMON/GROUND FOR EVERY SIX ZONE CONTROL VALVES (DC CONTROLLERS) INCLUDING THE PHASE A ZONE VALVES.

RADIO ROAD EXISTING 3" IRRIGATION MAIN: SHOWN FOR GRAPHIC REFERENCE ONLY.
LOCATION SHOWN PER PLAN IS APPROXIMATE, NOT COMPIRMED. FIELD LOCATE, PROTECT
AND PRESERVE DURING PHASE 1 EXCAVATION WORK. REPAIR IF DAMAGED DURING

DEVONSHIRE BLVD. EXISTING IRRIGATION MAIN & SUBMAIN: 3" FROM MIXING CHAMBER TO DEVONSHIRE BLVD. AND ALONG DEVONSHIRE BLVD. WEST R.O.W.; 2" SUBMAIN EVONSHIRE BLVD. W.O. SECTIONS THAT EXTEND INTO MEDIANS AND EAST R.O.W. REFER TO PLAN FOR LAYOUT — LAYOUT SHOWN IS APPROXIMATE, AS SHOWN PER MOGEE & ASSOCIALIES PLAN. REFER TO PLAN FOR THESE AND SIZES.

DEVONSHIRE BLVO, PROPOSED 2° IRRIGATION SUBMAIN & ZONE CONTROL VALVE CLUSTER PIPHO MANIFOLD ASSEMBLIES: CLASS 200 PANTONE PURPLE PVC FOR SUBMAIN EXTENSIONS; SCH 40 PVC FOR ZONE CONTROL VALVE CLUSTER MANIFOLD ASSEMBLIES. REFER TO PLAN AND NOTES FOR LAYOUT AND PHASING INFORMATION.

PLANS FOR RADIO ROAD PHASE I AND DEVONSHIRE BOULEVARD, REFER TO AS-BUILD DIRECTIONAL BORES LOG FOR SIZE, DEPTH AND LENGTH CONFIRMATION. LOG IS IN CC DOT ARCHIVES. EXISTING IRRIGATION SYSTEM SLEEVE; SIZE AS SHOWN PER MCGEE & ASSOCIATES

PROPOSED IRRIGATION SYSTEM SLEEVE: CLASS 150 SDR 11 HDPE EXTRAMOLECULA STRENGTH HDPE CASING, DIRECTIONAL BORE INSTALLATION, RFFER TO PLAN FOR SIZES AND LOCATIONS.

REFERENCE IRRIGATION LEGEND

	SIMBOL	DESCRIPTION
_	200 "	
	POC #	DEVONSHIRE BLVD. EXISTING IRRIGATION SYSTEM POINT OF CONNECTION: TAP
		CONNECTION INTO EXISTING MAIN OR SUBMAIN PIPING, FIELD LOCATE EXISTING: MAIN
		AND TAP INTO IT WITH TAPPING SADDLE (POC #1); ZONE CONTROL VALVE TO BE
		REMOVED, AND TAP INTO MAIN OR SUBMAIN STUBOUT (POC #2 THROUGH POC #13.

POD EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POD, POINT OF DISCONNECTION — SEVER EXISTING PIPING BETWEEN EXISTING HYDRAM'S (DASHELD LINE), AND CAP OPEN PIPING SECTIONS.

EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POINT OF DISCONNECTION — SEVER EXISTING MAIN/SUBMAIN PIPING STUB-OUT REMOVE THE ELEMENT TO BE REMOVED; CAP THE OPEN PIPING STUB-OUT. POC SERVICE: LATERAL LINE BOILT OF CONTROL ON THE CONTROL OF CONTR ALASTING IRRUGATION STSTEM PIPING DISCONNECTION, INTERCONNECTION POINT OF SERVICE LATERAL LINE POINT OF CONNECTION — SEVER EXISTING LATERAL LINE PIPING; PROVIDE EXISTING LATERAL LINE SIZED SCH 40 PVC TEE; INTERCONNECT PROPOSED LATERAL LINE.

OEXISTING IRRIGATION SYSTEM LATERAL LINE PIPING; SIZE AS SHOWN PER MCGEE & ASSOCIATES PILAN, OR AS ASSUMED IF NOT SHOWN PER MCGEE & ASSOCIATES PILAN AS-BUILT PILAN AND/OR OTHER DATA THAT CONFIRMS EXISTING LATERAL LINE PIPE SIZES USED WAS NOT AVAILABLE AT THE TIME OF WSI DESIGN.

EXISTING RADIO ROAD IRRIGATION MAIN AIR VACUUM RELIEF VALVE TO REMANI.

EXISTING DEVONSHIRE BLVD. PRESSURE GAUGE TO REMAIN IF WORKING PROPERLY, AND NOT AFFECTED BY MAIN OR SUBMAIN PIPING RENOVATION. EXISTING IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY TO REMAIN

PROPOSED IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.

EXISTING DEVONSHIRE BLVD. 3" IRRIGATION MAIN SINGLE VALVE BLOW-OFF ASSEMBLY TO REMOVE AND RETURN TO THE OWNER. PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN DOUBLE VALVE BLOW-OFF ASSEMBLY. REFER TO INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND ELEMENTS

POR existing devonshire blvd. Zone control and quick coupling valve to remove and return to the owner.

 $\ensuremath{\Phi^{\text{PROPOSED}}}$ devonshire blvd. Zone control valve to be installed. Refer to Plan and specifications for installation components list. Phase 1, 1a, 2 & 3a.

PROPOSED DEVONSHIRE BLVD. ZONE CONTROL VALVE TO BE INSTALLED IN FUTURE PHASE(S). REFER TO PLAN AND SPECIFICATIONS FOR INSTALLATION COMPONENTS LIST. PHASE 1B & 3B.

EXISTING COVERAGE REFERENCE LEGEND

SYMBOL DESCRIPTION PROPOSED DEVONSHIRE BLVD. QUICK COUPLING VALVE TO BE INSTALLED. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST. INSTALL AT THE END OF THE VALVES' ASSEMBLY CLUSTER FOR FLUSHING PURPOSES.

PROPOSED DEVONSHIRE BLVD. RESIDENTIAL BUFFER HYDRANT: HUNTER I-20 SERIES 6° POP-UP ROTOR HEAD. REFER TO PLAN AND NOTES FOR HYDRANT SPECIFICATIONS.

PROPOSED DEVONSHIRE BLVD. MEDIANS HYDRANT: TORO 570Z SERIES 12" HIGH POP-UP SPRAY HEAD WITH TORO PRECISION SERIES SPRAY NOZZLE. REFER TO PLAN AND NOTES FOR HYDRANT AND NOZZLE SPECIFICATIONS. PHASE 2.

PROPOSED DEVONSHIRE BLVD. R.O.W. EXISTING HYDRANT NOZZLE REPLACEMENT: TORO PRECISION SERIES SPRAY NOZZLES. REMOVE EXISTING NOZZLES AND REPLACE WITH NOZZLES SPECIFIED. REFER TO PLAN FOR NOZZLE SIZES AND PATTERNS. PHASE 1A & 3A (HYDRANTS BETWEEN BACK OF CURB AND SICEWALK, R.O.W. JASMINE ZONES).

PROPOSED DEVONSHIRE BLVD. SUPPLEMENTAL IRRIGATION BUBBLERS FOR PROPOSED TREES AND PALMS: TORO 5.5892, 0-2 OPM ADJUSTABLE FLOOD BUBBLER NOZIZE. (1) UNIT PER PROPOSED TREE & PAM, AUSTS TO 1 OPM SETTING DURING INSTALLATION, CONNECT BUBBLER HYDRAMT ASSEMBLES TO 1-1/4" LATERAL LINE PIPHIG. REFER TO BUBBLER HISTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND PLACEMENT SPECIFICATIONS. PHASE 1, 2 & 38.

PROPOSED DEVONSHIRE BLVD. MEDIANS SPRAY HYDRANT TO BE REMOVED. REMOVE EXISTING SPRAY HYDRANT, AND REPLACE WITH PROPOSED 12" SPRAY HYDRANT AND NOZZLE SPECIFIED. PHASE 2.

PHASE 2—INSTALLATION PHASE. 21 SLEEVE/HDPE MAIN SECTION NUMBER.

4" 45' SLEEVE/HDPE MAIN SECTION LENGTH. C1-3 ——CONTROLLER NUMBER — VALVE NUMBER.

1.25" ——ZONE CONTROL VALVE SIZE. ---ESTIMATED FLOW DEMAND. HYDRANT TYPE APPLICATION. -SLEEVE/HDPE MAIN DIAMETER/SIZE. PR .50* —ESTIMATED APPLICATION RATE, IN INCHES PER HOUR —PROPOSED ZONE HYDRATION AREA.

 FUTURE PHASE BID POTENTIAL ZONE INFORMATION BOX.
 ZONE CONTROL VALVE SIZE.
 MAXIMUM FLOW DEMAND FLOW DEMAND FOR ZONE. -HYDRANT TYPE APPLICATION, TO BE DETERMINED

PR-TBD

ESTIMATED APPLICATION RATE, TO BE DETERMINED, IN INCHES PER HOUR
EIGHBORHOOD — PROPOSED ZONE HYDRATION AREA.

EXISTING DEVELOPMENT ENTRIES AND RESIDENTIAL AREAS ENTRY/COMMON AREAS INFRIGATION COVERAGE APPROXIME ARTHUR MESOLUTION, MESO

WINDHAM studio in c

Scott Windham, ASL Landscape Architect, RLA 0001510

8891 brighton lane #112 bonita springs, florida 34135 phone: 239.390.1936 fax: 239.390.1937 scott @ windhamstudio com

AR OULEV

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DEVONSHIRE

COLLIER COUNTY P.O.#4500124715 COUNTY COLLIER PREPARED

JOB #: 013-10

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IRRIGATION

PLAN

HEDGE

7

PHASE

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SYSTEM RENOVATION PHASING NOTES

- THE ENTIRE RIGHT OF WAY IRRIGATION SYSTEM PROPOSED FOR RENOVATION IS SHOWN FOR GRAPHIC CLARITY AND COMPLETE LYYOUT REFERENCE. THE WORK IS GOING TO BE DONE IN DIFFERENT PHASES. THE WORK TO BE DONE IN PHASES INCLUDES THE FOLLOWING ORDER:

- PROVIDE ALL DIRECTIONAL BORE AND SLEENING WORK NECESSARY FOR THE PHASE.

 PHASE IA. WASTALL THE REPORSOSED ZONE CONTROL, WALVES, TONGET THE PROPOSED ZONE CONTROL.

 WALVES TO COMPROLER CI. AND PROGRAM THE ZONES FOR ACTIVATION. PROVIDE THE LATERAL

 LINE PHASE DOES PERMANDED THE MOZZILES FROM THE EXISTING HYDRANTS, AND REPLACE WITH

 NOZZILES AS SPICITIED PER PLAN TORO PRECISION SERIES SPRAY NOZZILES. IT IS HIGHLY

 RECOMMENDED TO EXECUTE/INISTALL/CONSTRUCT SMULTAMEDUSLY PHASE I AND PHASE TAND

 PHASE 2: REMOVE ALL EXISTING ZONE CONTROL, WALVES AND RETURN TO

 OWNER, PREPARE THE PROPOSED ZONE CONTROL WALVE CAUSTERS PROMIST CULSTERS; INSTALL

 THE CORRESPONDING PHASE ZONE CONTROL WAND CAUSTAL THE WALVES, MICH RETURN TO

 CONTROLLER CL. PROVIDE EMPECADOM, EDRES TORK REQUIRED FOR THE PHASE, PROVIDE

 CONTROLLER CL. PROVIDE DIRECTIONAL, BORES TORK REQUIRED FOR THE PHASE, PROVIDE

 THE LATERAL LINE PIPING MODIFICATIONS FOR THE PHASE ZONES (ALL MEDIAN ZONES);

 REMOVE THE EXISTING HYDRANT AND REPLACE WITH 27 HIGH POP-LP HYDRANTS AS

 SPECIFIED, AND NOZZIES SPECIFED TORO PRECISION SERIES SPRAY NOZZIES. S
- SPECIFIED, AND DOZIES SPECIFIED TORO FRECISION SERIES SPRAY NOZZIES.

 A PREPARE THE PROPOSED SUBMAN EXTENSION AND ZONE CONTROL WAVE POINTS OF CONNECTION; INSTALL THE PROPOSED 2°S JUBMAN EXTENSION SECTIONS, AND INTERCONNECT TO THE EXISTING SECTIONS SCHOOLIDE FOR CONNECTION; SIGNALL THE PROPOSED ZONE CONTROL WAVE CONNECTION ASSEMBLES; INSTALL THE PROPOSED ZONE CONTROL WAVE CONNECTION ASSEMBLES; INSTALL THE PROPOSED DAVIES TO THE CONTROL WHEE (INSTALLED DURING PHASE 2); PROVIDE THE LAYERAL LINE PIPHING MODIFICATIONS FOR THE PHASE ZONES (UHP ZONES BETWEEN THE SIDNARY AND BACK OF CURB); REMOVE THE PROPOSED VALVES TO THE CONTROL WHEE (INSTALLED DURING PHASE 2); PROVIDE THE LAYERAL LINE PIPHING MODIFICATIONS FOR THE PHASE ZONES (UHP ZONES BETWEEN THE SIDNARY AND BACK OF CURB); REMOVE THE STORM AND THE PROPOSED VALVES TO THE CONTROL WHEE PHASE ZONES (UMP ZONES BETWEEN THE SIDNARY AND BACK OF CURB); REMOVE THE STORM WAS EXPERIENCIAND STRENGT THE LAYERAL LINE PIPHING MODIFICATIONS FOR THE SYSTEM WAS EXPERIENCIAND VARIED AT THE TIME OF DESIGNAL THE TIME OF DESIGN THE TIME OF DESIGNAL THE MUST SHOWN TO PROVIDE ADDRESSES DUE TO THE SIZE OF THE EXISTING SUBSEMBLE SU
 - DISTURBED LANDSCAPE RESTORATION NOTE:
 ALL EXISTING LANDSCAPE THAT IS DISTURBED BY THE PROPOSED CONSTRUCTION ACTIVITIES
 SHALL BE RESTORED TO A CONDITION THAT IS ACCEPTABLE AND SATISFACTORY TO THE OWNER

GENERAL IRRIGATION NOTES

- PIPING AND OTHER IRRIGATION SYSTEM ELEMENTS ARE SHOWN ON PAVED OR OTHER NON-LANDSCAPE DESIGNATED AREAS FOR GRAPHIC CLARITY ONLY. ACTUAL LOCATION SHALL BE WITHIN LANDSCAPE DESIGNATED AREA OR AS DIRECTED BY LANDSCAPE ARCHITECT.
- DESIGNATION AREA OF AS DIRECTED BY LANGUAGE. ANCHITICAT.

 HE RIRRIGATION WATER SOURCE FOR THE ENTIRE SYSTEM IS AN EFFLUENT & WELL WATER MIXING CHAMBER THAT IS LOCATED ON THE RADIO ROAD RIGHT OF WAY, IN FRONT OF THE RIGHT ENDE DEVELOPMENT NORTH ENTRY. THE MIXING CHAMBERS SERVES THE PURPOSES OF MIXING TO THE MIXING FOR WATER AND MIXING IT WITH WELL WATER. THE IRRIGATION WATER WATER IS PURPED FROM THE MIXING CHAMBER LOCATION TO THE EVONSHIRE BLUY, SYSTEM, WITH A CENTRICULAR, TS. HE PURP THAT IS LOCATED ON TOP OF THE MIXING CHAMBER. THE IRRIGATION WATER IS DELYCRED TO THE DEVONSHIRE BLUY SYSTEM. WHAT EXSTRICT STATEMENT OF SUPPLY LIKE, DUE TO THE DISTRICE FROM THE RIRRIGATION WATER SOURCE TO DEPONSHIRE BLUY. THE WAXMMAM SAFE FLOW DELAWARD FROM THE IRRIGATION TO TRAVEL THROUGH THE

GENERAL IRRIGATION NOTES

- IRRIGATION WATER IS COING TO BE PROVIDED TO THE PROPOSED SYSTEM RENOVATION ZONES BY VIPTUE OF (1) TAP, POC §1, AT THE EXISTING 3" EXISTING RIRICATION MAIN THAT OCCURS ALONG THE WEST SIDE OF THE DEVON-SHEE BLVD., (13) THES AT EXISTING ZONE CONTROL VALVE STUB—OUTS AS WELL AS EXISTING 2" SUBMAIN STUBDUTS DONE IN PIPING NETWORK MODIFICATIONS, AND (3) TAPS TO A PROPOSED 2" SUBMAIN PIPING EXTENSION DESIGNATED TO OCCUR ALONG THE DEVON-SHIE BLVD. EAST SIDE GRIFT OF WAY, ALL CONNECTIONS TO THE DISTING MAIN AND SUBMAIN SHALL BE LEAFROOF. MAIN AND SUBMAIN CONNECTIONS DONE WITH FAST SETTING SOLVENT WELD GLUE SHALL NOT BE ALLIDORS, THEY MILE BREEDETED.
- PROVIDE CLASS 150 SDR 11 HDPE CASINGS AS SIZED PER PLAN AT ALL EXISTING PAVED SURFACE
 CROSSINGS WHERE SUBMAIN, ZONE CONTROL WRIES AND LATERAL LINE PIPING ARE SCHEDULED TO OCCUR.
 CONSINGS SOMEDULED FOR TWO LATERAL LINE TO CO. THROUGH THE CASING. DO NOTE DECEED A SIZE
 OF 1-1/2" FOR EACH SECTION THAT GOES THROUGH THE CASING. USE ENTIRE PIPING SECTIONS FOR
 COMIN THROUGH CASINGS AT SIDEMALK PROSSINGS, DO NOT USE OWITED PIPE SECTIONS WITHIN A CASING.
- PROVIDE: (1) BUBBLER PER PROPOSED TREE/PALM. THE BUBBLER SHALL BE PRESSURE COMPENSATING FLOOD TYPE, ADJUSTABLE, ADJUST TO 1 GPM. THE BUBBLER SHALL BE PLACED AT THE EDGE OF THE ROOTBALL, NOT NEXT TO THE TRUNK. BUBBLER HYDRANTS SHALL BE ZONDD SEPARATE FROM OTHER
- IN THE EVENT THAT FIELD CHANGES HAVE TO BE MADE DUE TO CIRCUMSTANCES NOT KNOWN AND/OR FORESEEN AT THE TIME OF DESION, AND THE PROPOSED ZONES NEED TO BE MODIFIED, THE MAXIMUM FLOW DEMAND ALLOWAGE FOR ONE ZONE SHALL NOT EXCEED 35 GPM.
- FOR DC CONTROLLERS, PROVIDE (1) COMMON/GROUND SPARE WIRES PER SIX ZONE CONTROL VALVES AT EACH LEG OF THE ZONE CONTROL WAVES SECTION, PROVIDE (1) SPARE ACTIVE CONTROL WIRE AT EACH ZONE CONTROL VALVE CLUSTER, EXCEPT FOR THE FARTHEST CLUSTER (AT EACH LEG) WHERE (2) SPARE ACTIVE WIRES NEED TO BE PROVIDED.
- FOR AC CONTROLLER (C2) PROVIDE (2) COMMON/GROUND SPARE WIRES AT EACH LEG OF A ZONE CONTROL
 WAVES SECTION. THE SPARE COMMON/GROUND WIRES SHALL BE ACCESSIBLE AT EVERY VALVE CLUSTER, PER
 DESIGNATED LEG PROVIDE (1) SPARE ACTIVE CONTROL WIRE A EACH MEDIAN, AT EACH PHASE 3A VALVE
 LOCATION, AND (2) SPARE ACTIVE WIRES AT THE LAST MEDIANS OF EACH LEG.
- THE PROPOSED DC IRRIGATION CONTROLLER SHALL NOT BE INSTALLED WITHIN 100'± OF AN OVERHEAD POWER LINE. A FACTORY TRAINED TECHNICAN SHALL REVIEW AL CONNECTIONS DONE PRIOR TO THE INITIAL ACTIVATION, AND PERFORM THE INITIAL ACTIVATION, ALL CONTROLLERS SHALL BE GROUNDED IN ACCORDANCE TO THE LISTS MAURIFICATION SEFCICIFATIONS. THE PROPOSED CONTROLLER AND ESTIME CONTROLLER SHALL BE REVIEWED BY THE TECHNICIAN. GROUNDING EQUIPMENT SHALL BE PROVIDED BY THE TRRIGATION CONTRACTOR.
- DUE TO THE DISTANCE FROM THE EXISTING SYSTEM'S IRRIGATION WATER SOURCE AND THE LOCATION OF DEVONSHIRE BOULEVARD AS WELL AS THE HYDRAULIC LIMITATIONS OF 3" THOPE, & PYC PIPMO NETWORKS IT IS NOT RECOMMENDED TO DESIGN/PROVIDE ZOURS WITH FLOW DEWINDS THAT EXCEED 354 GPM. THE SYSTEM MANAGER SHALL PROVIDE AN ACTIVATION SCHEDULING IN WHICH THE PROPOSED ZONES ARE ACTIVATED IN CONJUNCTION WITH THE EXISTING ZONES WITHOUT EXCEEDING A TLOW DEMAND OF 70-02 GPM.
- AT THE TIME OF DESIGN THERE WERE SOME SIXTING PRINCIPLE ONCES AT THE DEWOOD OF 7.03 CM AT THE TIME OF DESIGN THERE WERE SOME SIXTING REPROTECT ONCES AT THE DEVONSHIRE BOULEVARD ENTRIES AND AT THE NICHOROPHOOD ENTRIES AND OTHER COMMON AREAS THAT ARE NOT PART OF THE EXISTING SYSTEM DESIGNED BY MOSEE AND ASSOCIATES. IN THE EVENT THAT THE REMOVAL OF THE EXISTING BUFFER/HEDGE ZONES AFFECTS THE COVERAGE TO THE ENTRIES ZONES, THE PROPOSED ESSION PROVIDES ASSIGNATION FOR ADMITCHALLY STATEMENT OF THE PROPOSED SYSTEM EXPANSION SO THAT THE ADDITIONAL ALTERNATE BID ZONES CAN BE DEDICATED TO PROVIDE THE COVERAGE NICESSARY FOR THE AREAS WHERE THE EXISTING COVERAGE MIGHT BE AFFECTED. DO NOT EXCEED A FLOW DEMAND OF 35± GPM PER ZONE.
- THE IRRIGATION WATER METERS MUST BE CERTIFIED, AND BE AN EQUAL TO THE UNITS USED BY COLLIER COUNTY UTILITIES. REFERENCE UNIT: E-MON C700 2° WATER WETER WITH MASTER METER DIALGO GO DS INTERPRETER REGISTER. REFERENCE UNIT LOCATED AT VANDERBILE BEACH ROAD, STATION 3904-29, EAST OF ISLAND WALK DEVILOPMENT. BIDDING CONTRACTORS MUST CONFIRM W/ COLLIER COUNTY UTILITIES PRIOR TO SUBMITTING BIDS.

REFERENCE IRRIGATION LEGEND

SYMBOL WATER MIXING CHAMBER W/ PUMP STATION LOCATED AT RADIO ROAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE. EXISTING MIXING CHAMBER RECHARGE SECONDARY WATER SOURCE: EXISTING 6" IRRIGATION WELL W/ 7.5 HP PUMP, AND DISCHARGE GRAVEL SUMP, LOCATED AT ROAD, REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE EX EX 6 W

2" CERTIFIED IRRIGATION WATER METER: INSTALL AT EXISTING PUMP STATION DISCHARGE LINE TO MIXING CHAMBER, AND AT MIXING CHAMBER'S DISCHARGE IRRIGATION MAIN. E-MON C700 2" WATER METER W/ MASTER METER DIALOG 3G DS INTERPRETER REGISTER

EXISTING RADIO ROAD IRRIGATION CONTROLLERS: LOCATED ADJACENT TO EXISTING IRRIGATION RECHARGE WELL AND PUMP STATION. SHOWN FOR REFERENCE ONLY. REFER TO PLAN FOR LOCATION GRAPHIC ILLUSTRATION. PHASE 1...

EXISTING IRRIGATION CONTROLLER: MOTOROLA AC SCORPIO CONTROLLER, WITH CONVENTIONAL CONTROL WIRES TECHNOLOGY, LOCATION SHOWN AS PER, McGEE & ASSOCIATES PLAN. CONTROLLER C2, TO BE USED FOR PHASE 2, MEDIAN ZONES ONLY. OPOSED IRRIGATION CONTROLLER C1: MOTOROLA DC "M" 36 STATION CONTROLLER TO

CONTROL WIRE: AWS SOUD COPPER INSILATED WIRE SUITABLE FOR DIRECT BURIAL APPLICATIONS. COMMON/RORUND, 12 GAUGE. SOUD WHITE PRIMARY COMMON/RORUND, WHITE WYCOLOR STRIPE SPARE COMMON/RORUND, ACTIVE. 14 GAUGE. RED FOR PHASE 1 & 2 ZONE CONTROL WALVES: BULL AND GREEN ACTVE SPARES, PROVIDE (1) PHASE IA & 3A ZONE CONTROL WALVES. SUIL AND GREEN ACTVE SPARES, PROVIDE (1) PHASE IA ZONE VALVES. SIX ZONE CONTROL VALVES (ID: CONTROLLERS) INCLUDING THE PHASE A ZONE VALVES.

RADIO ROAD EXISTING 3" IRRIGATION MAIN: SHOWN FOR GRAPHIC REFERENCE ONLY. LOCATION SHOWN PER PLAN IS APPROXIMATE, NOT CONFIRMED. FIELD LOCATE, PROTECT AND PRESENCE DURING PHASE 1 EXCAVATION WORK. REPAIR IF DAMAGED DURING PHASE 1 EXCAVATION WORK.

DEVONSHIRE BLVD. EXISTING IRRIGATION MAIN & SUBMAIN: 3" FROM MIXING CHAMBER TO CONCINENTE BLVD. AND ALONG DEVONSHIRE BLVD. WEST R.O.W; 2" SUBMAIN TO DEVONSHIRE BLVD. SECTIONS THAT EXTEND INTO MEDIMAS AND EAST R.O.W. REFER TO PLAN FOR LAYOUT — LAYOUT SHOWN IS APPROXIMATE, AS SHOWN PER MCGEE & SECOLATES PLAN. REFER TO PLAN FOR TYPES AND SZES.

DEVONSHIRE BLVD. PROPOSED 2" IRRIGATION SUBMAIN & ZONE CONTROL VALVE DEVOLUTION OF THE DEVOLUTION ASSEMBLES: CLASS 200 PANTONE PURPLE PVC FOR SUBMAIN EXTENSIONS; SCH 40 PVC FOR ZONE CONTROL VALVE CLUSTER MANIFOLD ASSEMBLES. REFER TO PLAN AND NOTES FOR LAYOUT AND PHASING INFORMATION.

EXISTING IRRIGATION SYSTEM SLEEVE; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLANS FOR RADIO ROAD PHASE I AND DEVONSHIRE BOULEVARD. REFER TO AS-BUILT DIRECTIONAL BORES LOG FOR SIZE, DEPTH AND LENGTH CONFIRMATION. LOG IS IN CC DOT ARCHIVES.

REFERENCE IRRIGATION LEGEND

	SYMBOL	DESCRIPTION
_	POC #	DEVONSHIRE BLVD. EXISTING IRRIGATION SYSTEM POINT OF CONNECTION: TAP **GONNECTION INTO EXISTING MAIN OR SUBMAIN PIPING. FIELD LOCATE EXISTING: MAIN AND TAP INTO IT WITH TAPPING SADDLE (POC #1): ZONE CONTROL VALVE TO BE REMOVED, AND TAP INTO MAIN OR SUBMAIN STUBOUT (POC #2 THROUGH POC #13.
	POD	EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POD, POINT OF DISCONNECTION — SEVER EXISTING PIPING BETWEEN EXISTING HYDRANTS (DASHED LINE), AND CAP OFEN PIPING SECTIONS.
R	CAP	EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POINT OF DISCONNECTION — SEVER EXISTING MAIN/SUBMAIN PIPING STUB-OUT; REMOVE THE ELEMENT TO BE REMOVED; CAP THE OPEN PIPING STUB-OUT.

DIPOC SENSITING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: LATERAL LINE POINT OF CONNECTION - SEVER EXISTING LATERAL LINE PIPING; PROVIDE EXISTING LATERAL LINE SIZED SCH 40 PVC TEE; INTERCONNECT PROPOSED LATERAL LINE.

OEXISTING IRRIGATION SYSTEM LATERAL UNE PIPING; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLAN, OR AS ASSUMED IF NOT SHOWN PER MCGEE & ASSOCIATES PLAN, AS-BULT PLAN AND/OR OTHER DATA THAT CONFIRMS EXISTING LATERAL LINE PIPE SIZES USED WAS NOT AVAILABLE AT THE TIME OF WS DESIGN.

INTERISTING IRRIGATION MAIN & SUBMAIN ISOLATION VALVES TO REMAN.

PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN AIR VACUUM RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.

EXISTING DEVONSHIRE BLVD. PRESSURE GAUGE TO REMAIN IF WORKING PROPERLY, AND NOT AFFECTED BY MAIN OR SUBMAIN PIPING RENOVATION.

EXISTING IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY TO REMAIN.

DH(U)

EXISTING COVERAGE REFERENCE LEGEND

SYMBOL	DESCRIPTION									
	PROPOSED DEVONSHIRE BLVD. QUICK COUPLING VALVE TO BE INSTALLED. REFER TO									
	THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST. INST AT THE END OF THE VALVES' ASSEMBLY CLUSTER FOR FLUSHING PURPOSES.									

PROPOSED DEVONSHIRE BLVD. MEDIANS HYDRANT: TORO 570Z SERIES 12" HIGH POP-UP SPRAY HEAD WITH TORO PRECISION SERIES SPRAY NOZZLE. REFER TO PLAN AND NOTES FOR HYDRANT AND NOZZLE SPECIFICATIONS. PHASE 2.

PROPOSED DEVONSHIRE BLVD. SUPPLEMENTAL IRRIGATION BUBBLERS FOR PROPOSED TREES AND PALLIS: TORO 53502, 0-2 OPM ADJUSTABLE FLODO BUBBLER NOZZLE. (1) UNIT PER PROPOSED TREE & PAUM, AUSIT TO 1 GIVE SETTING DURING INSTALLATION. CONNECT BUBBLER HYDRAMT ASSTMBLES TO 1-1/4" LATERAL LINE PIPING, REFER TO BUBBLER INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND PLACEMENT SPECIFICATIONS. PHASE 1, 2 & 3B.

PROPOSED DEVONSHIRE BLVD. MEDIANS SPRAY HYDRANT TO BE REMOVED. REMOVE EXISTING SPRAY HYDRANT, AND REPLACE WITH PROPOSED 12" SPRAY HYDRANT AND NOZZLE SPECIFIED. PHASE 2.

-SLEEVE/HDPE MAIN DIAMETER/SIZE.



PHASE 1 ----PROPOSED ZONE CONSTRUCTION PHASE

PRIMES 1 — PROPOSED ZONE CONSTRUCTION PHASE
1-28 — FUTURE PHASE BID POTENTIAL ZONE INFORMATION BOX.
1.25° — ZONE CONTROL VALVE SIZE.
1.25° — HORANIM FLOW BEAMON FLOW DEMAND FOR ZONE.
180 — HYDRANT TYPE APPLICATION, TO BE DETERMINED.
PR-TBD — STAMMED APPLICATION RATE, TO BE DETERMINED,
IN INCHES PER HOUR TO RETERMINED,
IN ORDER SPER HOUR TO BE DETERMINED,
IN ORDER SPER HOUR TO AREA.

-- DESIGNATED CONTROL WIRE COLOR.

EXISTING DEVELOPMENT ENTRIES AND RESIDENTIAL AREAS ENTRY/COMMON AREAS IRRIGATION COVERAGE APPROXIMATE AREA DESIGN LAYOUT RECORD DRAWNISS NOT AVAILABLE FOR REVIEW AT THE TIME OF DESIGN, MAY INCORPORATE INTO PROPOSE AVAILABLE FOR REVIEW AT THE TIME OF DESIGN AND THE OWNER APPROVE FOR ADDITIONAL DESIGN AND SYSTEM ZONES, AND THE OWNER APPROVE FOR ADDITIONAL DESIGN AND SYSTEM ZONES, EVELENTS INSTALLABLE.



phone: 239.390.1936 fax: 239.390.1937 scott @ windhamstudio.com

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2 COUNTY COUNTY P.O.#45001247 COLLIER COLLIER

JOB #: 013-10

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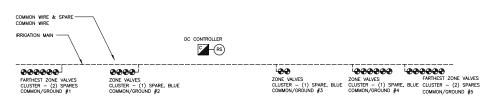
PLAN

RRIGATION

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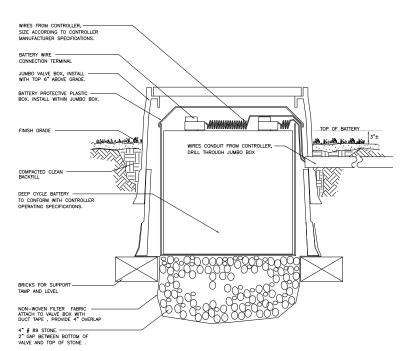
NO SPRINKLER HEADS SHALL OCCUR WITHIN 9" OF SIDEWALKS, PAVED AREAS, BEDLINES, AND 15" FROM BUILDINGS, OR OTHER STRUCTURES.

POP-UP SPRINKLER INSTALLATION DETAIL



- THE WIRE TYPE, SIZE, QUANTITIES AND LENGTH LIMIT SHALL BE IN ACCORDANCE TO THE DC CONTROLLER MANUFACTURER SPECIFICATIONS.
- PROVIDE (1) COMMON WIRE SHALL BE PROVIDED PER (6) ZONE CONTROL VALVES, OR AS SPECIFIED BY THE DC CONTROLLER MANUFACTURER SPECIFICATIONS

DC CONTROLLER COMMON WIRE SCHEMATIC PLAN VIEW DETAIL



- THE BATTERY SHALL BE IN ACCORDANCE TO THE CONTROLLER MANUFACTURER SPECIFICATIONS.

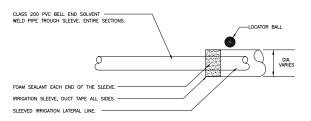
 THE PIT SHALL BE EXCAMATED TO A DEPTH THAT EMBELS THE TOP OF THE BATTERY TO BE AT AN ELEVATION OF 3"\$\pm\$ ABOVE FINISH GRADE.

 THE ELECTRIC WRES AND INTERCONNECTION EMADAMEE SHALL BE IN ACCORDANCE TO THE CONTROLLER AND BATTERY MANUFACTURER SPECIFICATIONS.

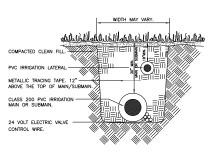
 THE BATTERY AND VALVE BOX INSTALLATION SHALL BE DONE AS DIRECTED BY THE CC DOT IRRIGATION MANAGER DIRECTIONS.

DC CONTROLLER EXTERNAL BATTERY INSTALLATION DETAIL





IRRIGATION SLEEVE SEALING DETAIL



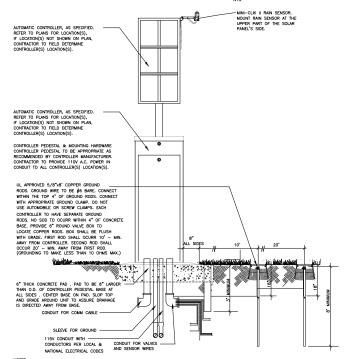
METALLIC TRACING TAPE MUST BE INSTALLED 12" ABOVE THE MAIN/SUBMAIN LINE. ARE NOT MET, THE TRENCHES SHALL BE RE-EXCAVATED.

DEPTH MEASUREMENTS ARE TO BE DONE FROM FLUSH GRADE TO TOP OF PIPE. PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAIN LINE(S) AND LATERAL LINE(S)

ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED TO A 90% STANDARD PROCTOR DENSITY, ASTMD698-78.

EFFLUENT SUPPLY LINE DEPTH, 42"± MINIMUM; 3" MAIN & 2" SUBMAIN DEPTH, 30"± MINIMUM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR TREE LOCATIONS TO AVOID CONFLICT WITH TREE LOCATIONS PRIOR TO THE INSTALLATION. OFFSET AND/OR FIELD ADJUST PIPING LOCATIONS AS NEEDED.

TYPICAL TRENCHING DETAIL



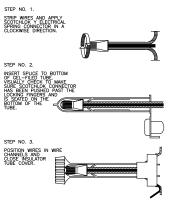
CONCRETE BASE SHALL BE IN ACCORDANCE TO CONTROLLER MANUFACTURER SPECIFICATIONS.

IRRIGATION CONTROLLER SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE TO LATEST MANUFACTURER SPECIFICATIONS.

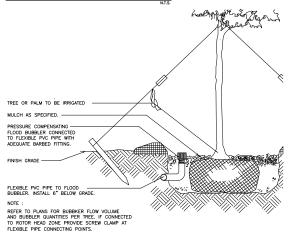
CONTROLLER WIRE CONNECTIONS AND GROUNDING TO BE REVIEWED AND APPROVED BY A MANUFACTURER TRAINED TECHNICIAN PRIOR TO INITIAL ACTIVATION. INITIAL ACTIVATION TO BE DONE BY MANUFACTURER TRAINED TECHNICIAN.

PEDESTAL MOUNTED DC CONTROLLER

INSTALLATION DETAIL

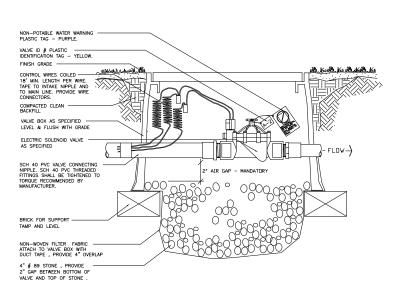


24 VOLT WIRE CONNECTION DETAIL



TREE IRRIGATION FLOOD BUBBLER

INSTALLATION DETAIL



IRRIGATION CONTRACTOR SHALL FIELD DETERMINE NIPPLE LENGTHS.
MAINLINE OUTLET TEE, INTERCONNECTING NIPPLES AND ALL OTHER INTERCONNECTING
FITTINGS SHALL BE SIZED TO THE VALVES INLET OPENINGS, COORDINATE WITH UTILITIES CONT

ZONE CONTROL VALVE INSTALLATION DETAIL



8891 brighton lane #112 bonita springs, florida 34135 phone: 239.390.1936 fax: 239.390.1937

scott@windhamstudio.com

BOULEVAR COLLIER COUNTY P.O.#4500124715 **DEVONSHIRE**

COLLIER COUNTY

JOB #: 013-10

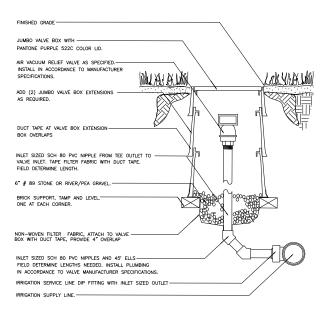
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PLAN

DETAILS

RRIGATION

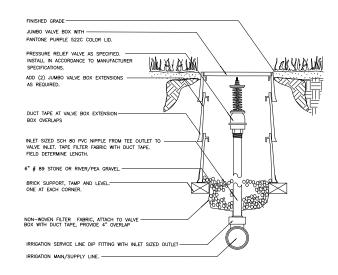
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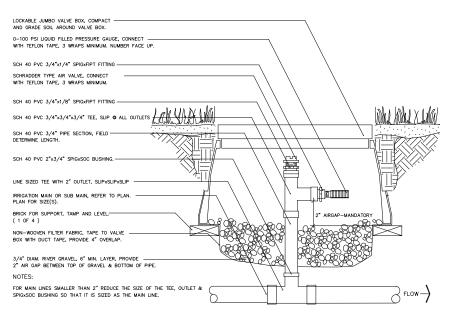
MAIN LINE AIR VACUUM RELIEF VALVE INSTALLATION DETAIL

JUMBO VALVE BOX WITH LOCKABLE LID WITH 6" EXTENSION.
SET ON BRICK SUPPORTS (4), PROVIDE NON-WOOVEN FILTER
FABRIC WITH 4" LAYER OF PEA GRAVEL ON TOP OF FILTER
FABRIC TAPE, FILTER FABRIC TO EXTENSIOR OF VALVE BOX WITH
DUCT TAPE, PROVIDE A 4" F.F. OVERLAP FROM BOTTOM OF BOX.
BOX SHALL BE SET FLUSH AND LEVEL WITH GRADE. 1-1/4" MANUAL BRASS GATE VALVE. PROVIDE 6" LONG NIPPLE AT OUTLET VALVE INLET SIZED SCH 40 PVC THREADED NIPPLE CONNECTED TO VALVE. CUT OFF THREADED END AT FLANGED CONNECTION END AND SOLVENT WELD TO FLANGE. LHOW AN YEAR INT WHY X THE 1-1/4" SCH 80 PVC NIPPLE CONNECTED TO FLANGE SCH 80 PVC 1-1/4"X3" REDUCER BUSHING. LINE SIZED SCH 80 PVC 45' FLANGED ELBOW CONNECTED TO FLANGED VALVE AND 3" SCH 80 PVC FLANGE. LINE SIZED SCH 80 PVC FLANGED CONNECTIONS. ALL PVC MATERIAL SHALL BE SCH 80 PVC. SOLVENT WELD JOINING WELDING SHALL BE DONE WITH A SLOW SETTING SOLVENT WELD GLUE. OPEN AND CLOSE SLOWLY THE VALVES DURING FLUSHING.
OPEN 1-1/4" VALVE FIRST, THEN OPEN LARGER VALVE. USE
A MINIMUM TIME OF 20 SECONDS FOR OPENING OR CLOSING
EACH VALVE UNDER PRESSURE.

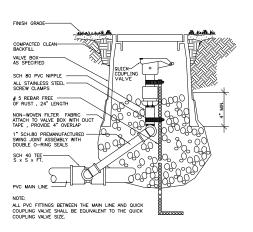
IRRIGATION MAIN DOUBLE VALVE BLOW-OFF ASSEMBLY INSTALLATION DETAIL



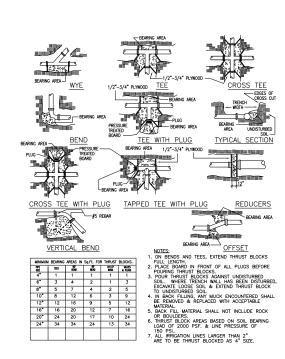
MAIN LINE PRESSURE RELIEF VALVE INSTALLATION DETAIL



IRRIGATION MAIN LINE PRESSURE CHECK UNIT INSTALLATION DETAIL



QUICK COUPLING VALVE INSTALLATION DETAIL



TYPICAL THRUST BLOCKS INSTALLATION DETAIL

Scott Windham, ASL Landscape Architect, RLA 0001514 WINDHAM studio inc

8891 brighton lane #112 bonita springs, florida 34135

phone: 239.390.1936 fax: 239.390.1937 scott@windhamstudio.com

BOULEVAR DEVONSHIRE

COLLIER COUNTY P.O.#4500124715

COLLIER COUNTY

JOB #: 013-10

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PLAN

DETAILS

IRRIGATION

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IRRIGATION SLEEVES& BORES TABLE

IRRIGATION LEGEND

EXISTING DEVONSHIRE BLVD. IRRIGATION WATER SOURCE: EXISTING EFFLUENT/WELL WATER MIXING CHAMBER W/ PUMP STATION LOCATED AT RADIO ROAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE.

EXISTING MIXING CHAMBER RECHARGE SECONDARY WATER SOURCE: EXISTING 6"
IRRIGATION WELL W/ 7.5 HP PUMP, AND DISCHARGE GRAVE, SUMP, LOCATED AT RADIO
XX
N CAD. REFER TO PLAN FOR LOCATION AND PHASE 1 IMPROVEMENTS TO BE DONE.

2" <u>Certified</u> irrigation water meter: install at existing pump station discharge line to mixing chamber, and at mixing chamber's discharge irrigation main. E—mon c700 2" water meter by /master meter dialog 3g os interpreter register

existing bermad hydrometer: Field locate and install proposed 2" certified water meters $5^{\rm +}+/-$ downstream of existing bermad hydrometer. Refer to plan for location. Phase 1..

EXISTING RADIO ROAD IRRIGATION CONTROLLERS: LOCATED ADJACENT TO EXISTING IRRIGATION RECHARGE WELL AND PUMP STATION, SHOWN FOR REFERENCE ONLY, REFER

EXISTING IRRIGATION CONTROLLE: MOTOROLA AC SCORPIO CONTROLLER, WITH CONVENTIONAL CONTROL WIRES TECHNOLOGY. LOCATION SHOWN AS PER, McGEE & ASSOCIATES PLAN. CONTROLLER C2, TO BE USED FOR PHASE 2, MEDIAN ZONES C

CONTROL WIRE: AWG SOUID COPPER INSULATED WIRE SUITABLE FOR DIRECT BURIAL APPLICATIONS. COMMON/RODUND, 12 GAUGE, SOLID WHITE PRIMARY COMMON/RODUND, WHITE WYCOLOG STRIPE SPARE COMMON/RODUND, CARDIE, 14 A SUNE CONTROL VALVES; ORANGE, PHASE IA & 3X ZONE CONTROL VALVES; ORANGE, PHASE IA & 3X ZONE CONTROL VALVES; ORANGE, PHASE IA & 3X ZONE CONTROL VALVES; OR CONTROL VALVES; OR CONTROL VALVES (OR CONTROL VALVES) OR CONTROL VALVES (OR CONTROL VALVES) OR CONTROL VALVES (OR CONTROL VALVES) OR CONTROL VALVES (OR CONTROL VALVES)

RADIO ROAD EXISTING 3" IRRIGATION MAIN: SHOWN FOR GRAPHIC REFERENCE ONLY. LOCATION SHOWN PER PLAN IS APPROXIMATE, NOT COMFIRMED. FIELD LOCATE, PROTE AND PRESERVE DURING PHASE 1 EXCAVATION WORK. REPAIR IF DAMAGED DURING PHASE 1 EXCAVATION WORK.

DEVONSHIRE BLVD. EXISTING IRRIGATION MAIN & SUBMAIN: 3" FROM MIXING CHAMBER TO DEVONSHIRE BLVD. AND ALONG DEVONSHIRE BLVD. WEST R.O.W; 2" SUBMAIN AT DEVONSHIRE BLVD. SECTIONS THAT EXTEND INTO MEDIANS AND EAST R.O.W. REFER TO PLAN FOR LAYOUT — LAYOUT SHOWN IS APPROXIMATE, AS SHOWN PER MCGEE & ASSOCIATES FLVM. REFER TO PLAN FOR TYPES AND SZESS.

DEVONSHIRE BLVD. PROPOSED 2" IRRIGATION SUBMAIN & ZONE CONTROL VALVE

CLUSTER PIPING MANIFOLD ASSEMBLIES: CLASS 200 PANTONE PURPLE PVC FOR SUBMAIN EXTENSIONS; SCH 40 PVC FOR ZONE CONTROL VALVE CLUSTER MANIFOLD ASSEMBLIES. REFER TO PLAN AND NOTES FOR LAYOUT AND PHASING INFORMATION

EXISTING IRRIGATION SYSTEM SLEEVE; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLANS FOR RADIO ROAD PHASE I AND DEVONSHIRE BOULEVARD. REFER TO AS—BUILT DIRECTIONAL BORES LOG FOR SIZE, DEPTH AND LENGTH CONFIRMATION. LOG IS IN CC DOT ARCHIVES.

== PROPOSED IRRIGATION SYSTEM SLEEVE; 2" CLASS 150 SDR 11 HDPE EXTRAMOLECULAR

DEVONSHIRE BLVD. EXISTING IRRIGATION SYSTEM POINT OF CONNECTION: TAP

DEVONSHIRE BLYD. EXISTING INNIGATION SYSTEM POINT OF CONNECTION: TAP
CONNECTION INTO EXISTING MAIN OR SUBMAIN PIPING. FIELD LOCATE EXISTING: MAIN
AND TAP INTO IT WITH TAPPING SADDLE (POC #1); ZONE CONTROL VALVE TO BE
REMOVED, AND TAP INTO MAIN OR SUBMAIN STUBOUT (POC #2 THROUGH POC #13.

EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POINT OF DISCONNECTION — SEVER EXISTING MAIN/SUBMAIN PIPING STUB—OUT; REMOVE THE ELEMENT TO BE REMOVED; CAP THE OPEN PIPING STU—BOUT.

EGI_CO EXISTING IRRIGATION SYSTEM PIPHNG DISCONNECTION/INTERCONNECTION POINT OF SEE BID SERVICE LATERAL LINE POINT OF CONNECTION — SEVER EXISTING LATERAL LINE SHEPPING; SCHEDULE PROPOSED DISCONNECTION — SEVER EXISTING LATERAL LINE SEVER DISCONNECTION — SEVER DISCO

EXISTING IRRIGATION SYSTEM LATERAL LINE PIPING; SIZE AS SHOWN PER MCGEE & ASSOCIATES PLAN, OR AS ASSUMED IF NOT SHOWN PER MCGGE & ASSOCIATES PLAN. SIZES USED DATA WAS NOT AVAILABLE AT THE TIME OF WSI DESIGN

INTERIOR INTERIOR MAIN & SUBMAIN ISOLATION VALVES TO REMANI. EXISTING RADIO ROAD IRRIGATION MAIN AIR VACUUM RELIEF VALVE TO REMANI.

PROPOSED IRRIGATION SYSTEM SLEEVE; 4* CLASS 150 SDR 11 HDPE EXTRAMOLECULAR STEENGTH HDPE CASING. DIRECTIONAL BORE INSTALLATION, RFFER TO PLAN FOR SIZES SCHEDULE AND LOCATIONS, REFER TO BID SCHEDULE FOR QUANTITIES PER PHASE.

PROPOSED IRRIGATION SYSTEM SLEEVE; 2" SCH 40 PVC SLEEVE. JET BORE INSTALLATION. SEE BID RFFER TO PHAN FOR SIZES AND LOCATIONS. LIMIT TO SIDEWALK CROSSINGS ONLY. REFER SCHEDULI OF BID SCHEDULE FOR QUANTITIES PER PHASE.

EXISTING IRRIGATION SYSTEM PIPING DISCONNECTION/INTERCONNECTION POINT OF SERVICE: POD, POINT OF DISCONNECTION — SEVER EXISTING PIPING BETWEEN EXISTING FURDAMIST GOARDEL LINE), AND CAP OPEN PIPING SECTIONS.

PROPOSED IRRIGATION CONTROLLER C1: MOTOROLA DC M 24 STATION CONTROLLER TO BE USED AS A SCORPIO UNIT. INCLUDE: SOLAR PANEL AND RECHARGABLE DEEP CYCLE SHATEY AND RAN SENSOR, PHASE I. REPER TO PLAN FOR PROPOSED LOCATION.

O PLAN FOR LOCATION GRAPHIC ILLUSTRATION. PHASE 1...

SYMBOL DESCRIPTION

EX EX 6°W

XC RS

)rig. #	Rev.	Length	Location**	Sheet	Existing / Proposed	Size	Туре	Measured Length	Date Measured	Found	Utilized	Use	Phase	Notes
		12'±	SW	IR-2	PR	4"	HDPE					LATERAL LINES	1	
		12'±	SW	IR-2	PR	4"	HDPE					LATERAL LINE & WIRES	1	
		50'±	ST	IR-2	PR	2"	HDPE					CONTROL WIRES	1	
		12'±	SW	IR-3	PR	4"	HDPE					LATERAL LINE & WIRES	1	
		20'±	DR	IR-3	PR	4"	HDPE					LATERAL LINES	1	
		20'±	DR	IR-3	PR	2"	HDPE					CONTROL WIRES	1	
		12'±	SW	IR-3	PR	2"	PVC					CONTROL WIRES	1	
		12'±	SW	IR-3	PR	4"	HDPE					LATERAL LINES	1	
		12'±	SW	IR-3	PR	4"	HDPE					LATERAL LINE & WIRES	1	
0		65'±	ST	IR-4	PR	2"	HDPE					CONTROL WIRES	1	
1		12'±	SW	IR-4	PR	4"	HDPE					LATERAL LINE & WIRES	1	
2		12'±	SW	IR-5	PR	4"	HDPE					LATERAL LINE & WIRES	1	
3		12'±	SW	IR-5	PR	4"	HDPE					LATERAL LINES	1	
4		50'±	ST	IR-2	PR	2"	HDPE					CONTROL WIRES	2	
5		45'±	ST	IR-2	PR	4"	HDPE					LATERAL LINE & WIRES	2	
6		12'±	SW	IR-2	PR	2"	HDPE					CONTROL WIRES	2	
7		40'±	ST	IR-3	PR	2"	HDPE					CONTROL WIRES	2	
8		40'±	ST	IR-4	PR	2"	HDPE					CONTROL WIRES	2	
9		12'±	SW	IR-5	PR	2"	PVC					CONTROL WIRES	2	
0		70°±	ST	IR-5	PR	2"	HDPE					CONTROL WIRES	2	
1		12'±	SW	IR-5	PR	2"	PVC					CONTROL WIRES	2	
2		40'±	ST	IR-5	PR	2"	HDPE					CONTROL WIRES	2	
\neg														

EST. QTY.

ST = Street Crossing; DR = Driveway Crossing; EX = Existing Sleeve; PR = Proposed Sleeve; * Assumed existing PVC sleeve, submit an alternate bid for SDR 11 HDPE

SYMBOL	DESCRIPTION	EST. QTY
®	PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN AIR VACUUM RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.	SEE BID SCHEDULE
®	PROPOSED DEVONSHIRE BLVD. 3" IRRIGATION MAIN PRESSURE RELEIF VALVE. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.	SEE BID SCHEDULE
6	EXISTING DEVONSHIRE BLVD. PRESSURE GAUGE TO REMAIN IF WORKING PROPERLY, AND NOT AFFECTED BY MAIN OR SUBMAIN PIPING RENOVATION.	N.A.
	EXISTING IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY TO REMAIN.	N.A.
	PROPOSED IRRIGATION MAIN & SUBMAIN PRESSURE CHECK ASSEMBLY. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST.	SEE BID SCHEDULE
POR	EXISTING DEVONSHIRE BLVD. 3" IRRIGATION MAIN SINGLE VALVE BLOW-OFF ASSEMBLY TO REMOVE AND RETURN TO THE OWNER.	N.A.
MH®)	PROPOSED DEVONSHIRE BLVO. 3" IRRIGATION MAIN DOUBLE VALVE BLOW-OFF ASSEMBLY. REFER TO INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND ELEMENTS LIST/DESCRIPTION.	SEE BID SCHEDULE
POR	EXISTING DEVONSHIRE BLYD. ZONE CONTROL AND QUICK COUPLING VALVE TO REMOVE AND RETURN TO THE OWNER.	N.A.
•	PROPOSED DEVONSHIRE BLVD. ZONE CONTROL TO BE INSTALLED. REFER TO PLAN AND SPECIFICATIONS FOR INSTALLATION COMPONENTS LIST. PHASE 1, 1A, 2 & 3A	SEE BID SCHEDULI
•	PROPOSED DEVONSHIRE BLVD. ZONE CONTROL VALVE TO BE INSTALLED IN FUTURE PHASE(S). REFER TO PLAN AND SPECIFICATIONS FOR INSTALLATION COMPONENTS LIST. PHASE 18 & 3B.	SEE BID SCHEDULI
0	PROPOSED DEVONSHIRE BLVD. QUICK COUPLING VALVE TO BE INSTALLED. REFER TO THE INSTALLATION DETAIL FOR ASSEMBLY ILLUSTRATION AND COMPONENTS LIST. INSTALL AT THE END OF THE VALVES' ASSEMBLY CLUSTER FOR FLUSHING PURPOSES.	SEE BID SCHEDULI
1−20 #2.0⊖_	PROPOSED DEVONSHIRE BLVD. RESIDENTIAL BUFFER HYDRANT: HUNTER I-20 SERIES 6" POP-UP ROTOR HEAD. REFER TO PLAN AND NOTES FOR HYDRANT SPECIFICATIONS. PHASE 1.	SEE BID SCHEDULI
PRECISION 12'	PROPOSED DEVONSHIRE BLVD. MEDIANS HYDRANT: TORO 570Z SERIES 12* HIGH POPUP SPRAY HEAD WITH TORO PRECISION SERIES SPRAY NOZZLE. REFER TO PLAN AND NOTES FOR HYDRANT AND NOZZLE SPECIFICATIONS. PHASE 2.	SEE BID SCHEDULI
PRECISION 10	PROPOSED DEVONSHIRE BLVD. R.O.W. EXISTING HYDRANT MOZZLE REPLACEMENT: TORO PRECISION SERIES SPRAY MOZZLES, REMORE EXISTING MOZZLES AND REPLACE WITH MOZZLES SPECIFIED. REFER TO PLAN FOR NOZZLE SIZES AND PATTERNS, PHASE IA A 4/HYDRANT'S BETWEEN BACK OF CURB AND SIDEWALK, R.O.W. TURF ZONES).	SEE BID SCHEDULI
<u>_BZ</u>	PROPOSED DEVONSHIRE BLVD. SUPPLEMENTAL IRRIGATION BUBBLERS FOR PROPOSED TREES AND PALMS: TORO 53892, 0-2 GPM ADJUSTABLE FLOOD BUBBLER NOZILE. (1) UNIT PER PROPOSED TREE & PAUM, AUJOT TO 1 GPM SETTING DURING INSTALLAND. CONNECT BUBBLER HYDRANT ASSEMBLES TO 1-1/4" LATERAL LINE PIPHING. REFER TO BUBBLER HYDRALATION DETAIL FOR ASSEMBLY ILLUSTRATION AND PLACEMENT SPECIFICATIONS. PHASE 1, 2 & 3B.	SEE BID SCHEDULI
O 32	PROPOSED DEVONSHIRE BLVD. MEDIANS SPRAY HYDRANT TO BE REMOVED. REMOVE EXISTING SPRAY HYDRANT, AND REPLACE WITH PROPOSED 12" SPRAY HYDRANT AND NOZZLE SPECIFIED. PHASE 2.	SEE BID SCHEDULI
SEE BID SCHEDULE	REFER TO BID SCHEDULE FOR ELEMENT MANUFACTRER & MODEL SPECIFICATION, DESCRIPTION, AND QUANTITIES PER PHASE.	

PHASE 2—INSTALLATION PHASE.

SLEEVE/HDPE MAIN SECTION NUMBER.
4" 45' SLEEVE/HDPE MAIN

-SLEEVE/HDPE MAIN SECTION LENGTH.

-SLEEVE/HDPE MAIN

PHASE +	
C1-3-	
1.25" —	ZONE CONTROL VALVE SIZE.
20 GPM-	ESTIMATED FLOW DEMAND.
ROTORS	
PR .50**	ESTIMATED APPLICATION RATE,
WEST	
BUFFER	IN INCHES PER HOUR
RED	

PHASE 4-PROPOSED ZONE CONSTRUCTION PHASE

C1-28 TURBE PHASE BIO PREMIAL ZONE INFORMATION BOX.

1.25" ZONE CONTROL VALVE SIZE.

C35 GPM MAXIMUM FLOW DEMAND FLOW DEMAND FOR ZONE.

TBO HOPART TYPE APPLICATION, TO BE DETERMINED,

PR-TBO ESTIMATED APPLICATION RATE, TO BE DETERMINED.

NEIGHBORHOOD-PROPOSED ZONE HYDRATION AREA.
S. ENTRY IN INCHES PER HOUR
YELLOW—DESIGNATED CONTROL WIRE COLOR.

IRRIGATION SYSTEM SEASONAL WATER BUDGETING FEATURE ADJUSTING TABLE

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
48%	57%	84%	94%	100%	96%	91%	88%	74%	67%	52%	48%

THE SEASONAL ADJUSTMENTS SCHEDULING TABLE SHOWN ABOVE IS BASED ON HISTORICAL ETO RATES. IT ASSUMES THAT SYSTEM WILL HAVE ADEQUATE MAINTENANCE WITH NO ALTERATIONS TO THE ZONES DESIGNED BY JCA&A. AND THAT PLANT MATERIAL SELECTION WILL BE AS SPECIFIED BY WINDHAM STUDIO, Inc.

IRRIGATION APPLICATION CONTROL PARAMETERS

- CROPS TO IRRIGATE: XERIC PLANTINGS, TREES, PALMS, SHRUBS AND GROUND COVERS.
- REQUIRED WEEKLY APPLICATION REQUIRED AT PEAK TIME OF THE YEAR: PLANTINGS 1.0" PER WEEK.
- ACREAGE TO IRRIGATE & REQUIRED FLOW DEMAND: 2± ACRES; 80+/- GPM. INCLUDES A 20% ALLOWANCE FOR POTENTIAL LANDSCAPE AREAS INCORPORATION IN THE FUTURE.
- RECOMMENDED OPERATING SCHEDULE: 3 NIGHTS PER WEEK, 8+/- HOURS PER NIGHT PER SYSTEM.
- IRRIGATION WATER SOURCE & FLOW CAPACITY AVAILABLE: CONNECTIONS TO EXISTING 3" MAIN, DO NOT EXCEED 35± GPM FLOW DEMAND PER PROPOSED ZONE.
- ESTIMATED PROPOSED ZONES APPLICATION RATES: SPRAY HEADS IN FULL COVERAGE, 1.0" PER HOUR: SPRAY & ROTOR HEADS IN SINGLE ROW COVERAGE, .50± PER HOUR.
- RECOMMENDED RUN TIME: FULL COVERAGE SPRAY HEADS ZONES AT PLANTING AREAS (MEDIANS), 3 NIGHTS PER WEEK, 20± MINUTES PER NIGHT; SINGLE ROW COVERAGE SPRAY HEAD ZONES AT TURF AREAS (R.O.W.), 3 NIGHTS PER WEEK, 50± MINUTES PER NIGHT; SINGLE ROW COVERAGE SPRAY HEAD ZONES AT PLANTING AREAS, 3 NIGHTS PER WEEK, 40± MINUTES PER NIGHT; ROTOR HEAD ZONES FOR BUFFER PLANTING AREAS, 3 NIGHTS PER WEEK, 40± MINUTES PER NIGHT; BUBBLERS AT TREES/PALMS, 3 NIGHTS PER WEEK, 20 MINUTES PER NIGHT;
- THE IRRIGATION MAMAGER SHALL SCHEDULE THE PROPOSED ZONES TO OPERATE IN A FASHION THAT DOES NOT CREATE CONFLICT WITH THE EXISTING ZONES UNTIL THE ENTIRE
 SYSTEM IS RENOVATED. AT THE TIME OF DESIGN THERE WAS NO INFORMATION AVAILABLE ON THE CURRENT SCHEDULING OF THE EXISTING SYSTEM ZONES, AND THE APPLICATION
 MANAGEMENT MODIFICATIONS THAT WERE DONE AFTER THE DESIGN PROVIDED BY MICEGA PAION ASSOCIATES WAS IMPLEMENTED.
- THE TORO PRECISION SERIES SPRAY NOZZLES ARE BEING SPECIFIED DUE TO THEIR LOWER FLOW DEMAND (34% ±) IN COMPARISON TO STANDARD FLOW SPRAY NOZZLES, AND A SUPERIOR CLOCGING RESISTANCE. THE ESTIMATED FLOW DEMANDS COMMONNY EXPERIENCED IN THE USE OF STANDARD SPRAY NOZZLES. HE FLOW DEMANDS WERE CALCULATED IN THAT FASHION IN THE EVENT THAT THE TORO PRECISION SERIES SPRAY NOZZLES BECOME NOT AVAILABLE IN THE FUTURE, AND THE STANDARD FLOW NOZZLES HAVE TO BE USED.
- THE TORO PRECISION SERIES SPRAY NOZZLES LOWER FLOW DEMAND WILL PRESENT AN APPLICATION RATE LOWER THAN STANDARD FLOW SPRAY NOZZLES, THEREFORE,
 THE SPRAY HYDRANT ZONES WILL HAVE TO OPERATE FOR LONGER PERIODS OF TIME.

IRRIGATION NOTES

IRRIGATION NOTES CONTENT

A. GENERAL NOTES

- The plans and drawing one apparential of the sext to be performed. The work shall be associated in a manner to model confident with utilities and other elements of construction, including inducement materials aby and all deviations shall be brought to the attention of the owner or owners. The contractor shall not willfully install any appact of the irrigation system as shown on the plans and drawings when it is obvious in the field that obstruction, group differences, or alterepancies exist that might not have been known during the design of the irrigation system of the conflict is not given to the representation, the conforcar will assume that
- Irrigation system shall be installed in accordance with the plans, Irrigation System Specifications and all contract documents. Contractor shall comply with all prevailing local codes, ordinances and regulations.
- Check and verify all site conditions, including service utility locations, prior to trenching or digging. Coordinate all irrigation system construction with existing and/or new plantings to avoid conflict or interference with location fpiping, sleeving, cobies and service utilities. The irrigation contractor is responsible for coordinating installation with all other construction on site, especially landscape installation, irrigation system is to be relocated at no additional cost for any conflict with landscape installation or any other site construction or existing conditions. All components that are not contained within the specific areas shown on the drawings will not be accepted. All piping and other components are to remain within the property of the OMEAT.
- Where existing or new trees, light standards, signs, electronic controllers and/or other objects are an obstruction to an irrigation sprinkler's pattern, the component and piping shall be relocated as necessary to obtain proper coverage without damaging the obstruction. Landscape architect or representative to determine whether obstruction occurs or not.
- Component spacings are maximum. Do not exceed spacings shown or noted on the plans. Component spacings may be adjusted to accommodate changes in terrain and planting layout as long as the modified spacings do not exceed the spacings shown in the plans. Unless shown otherwise, irrigation contractor shall provide 100% coverage.
- All materials and equipment shown shall be installed as detailed on the plans. If the drawings do not thoroughly describe the techniques to be used, the installer shall follow the installation methods/instructions recommended

- Contracts to provide installation app, grayings and aparticuture, product information for all irrigation emponents, and receivables to the provide installation and provide
- All trenches shall be backfilled with clean, debris—free materials. Clean sand shall be used for bedding material if parent soil cannot be adequately rid of rock and other extraneous debris, Pulling pipe shall be prohibited.
- All solvent welding shall be preceded by priming of the fittings and pipe as recomended by the manufacturer.
- Contractor to label/number all zone valve covers with corresponding controller zone number and isolation valve box covers with record drawing numbers. Provide tags to all valves as shown per details.
- MAINLINE & PIPING
- All irrigation main(s) & submain(s) shall be 1120-1220 class 200 PVC gasketted pipe with gasketted fittings. All pipes used downstream of each remote controll valve shall be class 160 PVC solvent weld pipe. Unless shown otherwise.
- The depth of all lines shall be as specified per plans and details. Measurements shall be from top of pipe(s) to finish grade. Contractor will be responsible for retrenching and relaying any pipe not meeting specified depth(s).
- All mainlines will be installed with a tracing tape labeled "Non-potable Irrigation Main "
- All piping stubouts for future zone expansions shall have the end capped, and be located using a 6" valve box. SLEEVING
- All codeway crossings on existing surfaces not scheduled for renoution, whether shown or not shall be made using SDR11 PE casing, installed using directions bornig technology. All crossings scheduled for construction or renovations, shall be made using SDR1 PE casing piping or as specified by the project's engineer. A second steeve dedicated for controller wires shall occur disjoint to the mainty submain line. Refer to glass hetest for the size of the sleeves of the crossings.
- Irrigation contractor shall coordinate with general contractor for the location of sleeve crossings whether shown or not. At no time will wiring share the same sleeve with main(s) or other piping. Wiring sleeves shall be dedicated only for wiring.
- All sleeving shall extend: 36" for main/submain; 12" for laterals, beyond the edge of of the surface requiring sleeving.
- All sleeves shall be two sizes larger than the piping within, or as sized per plan.
- ISOLATION VALVES
- All isolation valves shall be brass . Isolation valves shall be sized as identified by symbols on the drawings, or by matching the of the pipes they occurr within. Valves of 3/4" through 2-1/2" shall be threaded, valves 3" and larger shall be flanged.
- All isolation valves installed along the mainline shall be installed with a valve box. Refer to details and specifications for valve box sizes . Contractor shall provide valve box extensions when necessary. Extensions may be made with black plastic corrugated pipe.
- All quick coupler valves shall be brass . Quick coupler valves shall occurr at locations shown on the plans, if applicable. Quick coupler valves shall be installed in 10" round valve boxes and as detailed on the drawings.
- The contractor shall furnish one (1) key and swivel assembly per (4) quick coupler valves
- CONTROL SYSTEM
- All controller(s) (each if applicable) will be installed in areas designated by the Irrigation Consultant . In the event that no areas are designated, the irrigation contractor shall determine and field locate all controller(s) and rain sensor(s) location(s). Controller(s) shall be installed in areas accessible to maintenance personnel. Rain sensor(s) shall be installed in open areas as per manufacturer recommendations. General contractor to provide dedicated 120 V . power in conduit to all controller locations and provide electron contractor to connect 120 V . power from source to timer. All hardware necessary must be included as part of connection service.
- troller(s) (each if applicable) will be grounded using two eight foot (8') copper clad rods with #6 solid copper wire. Copper s will be used to attach the wire to the rods. If another controller is utilized, an earth ground of five (10) ohms or less
- All controller(s) (each if applicable) will have a Rain sensor and by-pass switch installed to meet state and local codes. Rain sensors and by-pass switches also will be installed in accordance to manufacturer's guidelines. Rain sensors to be manufactur Mini-Click II unless otherwise specified.
- It shall be the responsibility of the irrigation centrator to coordinate with other trades on sits. Program or schedule the irrigation september of the regions system during construction and normal operation until mill and operation shall be the irrigation Sessalidati. Controller & volve operation shall be chronological. Schedule (1) multiple start time per (3) minutes of Spray head single row coverage operation; (1) Minutes of rotary ger drive head operation.
- REMOTE CONTROL VALVES
- All control valves shall be installed as close as possible to the mainline(s) or submain(s) piping as possible. Control valves shall be type and size as specified herein and indicated on the drawings.
- Wire sizes for control valve connections to the controller will be as specified per plan and specific notes. Red wire will be used for activation, white wire for common, blue wire for future expansions, and green wire for spore. The contractor shall furnish sufficient wires to allow for (1) spore and (1) future expansion, at volves located forthest distances away from the controller, and at all other designated locations. Contractor shall provide spare and future expansion wire splices in a 6" round box valve box.
- All electrical splices shall be made using 3M-DBY and 3M-3570 Scotchlock Seal Pack Connectors as detailed herein
- VALVE & SPLICE BOXES
- All valve boxes shall meet specifications, be sized & installed as shown and detailed herein. Top of valve boxes shall be flush and level with grade when installed. Contractor to reinstall and relevel boxes if soil settling occurs.
- Where possible and feasable install valve boxes within planting bedlines. No valve boxes shall be installed within: 3' of a sidewalk of other pedestrian used surface, 5' from any vehicular roadways, Do NOT install at the bottom of swale(s) or any other low point.
- POP-UP SPRAYHEADS, TURF GEAR DRIVE HEADS, TURF BUBBLERS & TREE BUBBLERS
- All sprinkler heads will be installed and connected to lateral lines as per details. The smallest pipe size allowed to connect sprinkler sprinkler heads shall be 1° or as specified per plan.
- All pop-up spray heads occurring in turf areas shall be 6° sprayheads. Rotor heads shall be those as specified herein. All sprinkler heads occurring within low plantings (24° or lower average mature height) shall be 12° high pop-up sprinklers. All sprinkler heads occurring within plantings (24° or greater average mature height) shall be installed on sch . 80 PVC risers and "shrub" designated sprinkler adapters or 12" high pop-ups, unless otherwise shown on the drawings .
- All trees and palms designated to have supplemental irrigation shall have it in the form of pressure compensating flood type bubblers. The discohrge rate shall be: (1) 1 GPM nozzie per tree or palm. Bubbler hydrants is shall be zoned separate from other hydrants, in conse dedicated exclusively for bubbler supplemental hydration for trees and polms.
- Symphotic rozze conce shall be selected based on the pacings shown on the plan(s). The following guids incree shall be considered them selectes projected considered ranges; 1-4 across use fields after considered and projected considered and projected for the project state of the pr
- Small narrow irregular shaped turf areas with minimal (<10%) or no slope shall be irrigated with Nibco's Wick Irrigation Turf Bubline turf bubblers shall be installed in accordance to the manufacturer specifications. The spacings shall not exceed 5' and the leavest shall be triggered.



8891 brighton lane #112 bonita springs, florida 34135 phone: 239.390.1936 fax: 239.390.1937

scott @ windhamstudio com 坙

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