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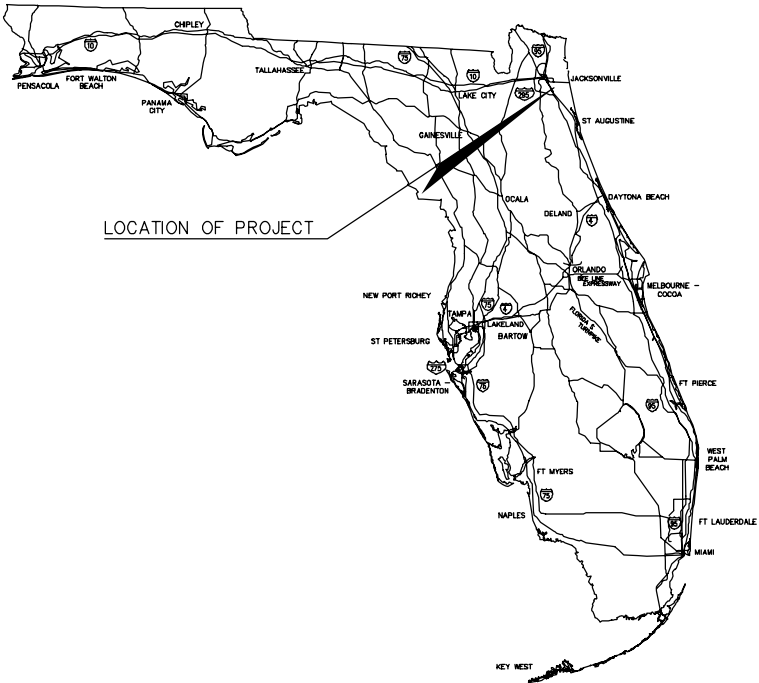
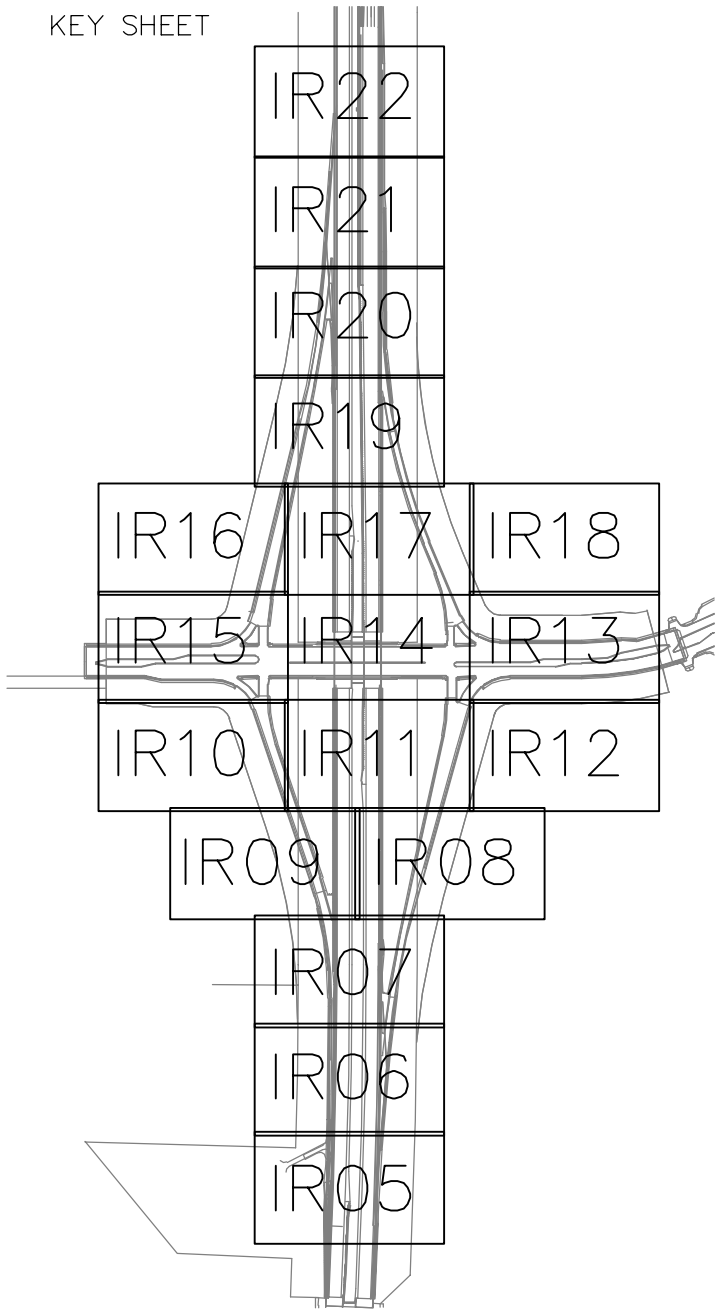
STATE ROAD 9B &  
E-TOWN INTERCHANGE

DUVAL COUNTY

ETM PROJECT NO.: 13-102-02

IRRIGATION PLANS

KEY SHEET



LANDSCAPE SHOP DRAWINGS  
TO BE SUBMITTED TO:  
  
KARL M. SODERHOLM, PLA.  
ENGLAND-THIMS & MILLER, INC.  
14775 OLD ST. AUGUSTINE ROAD  
JACKSONVILLE, FL 32258  
PHONE: 904-642-8990  
EMAIL: SODERHOLMK@ETMINC.COM

PLANS PREPARED BY:

**ETM**  
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Jacksonville, FL 32258  
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NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.














KEY SHEET REVISIONS		
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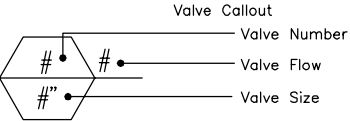
LANDSCAPE ARCHITECT  
OF RECORD: KARL M. SODERHOLM, PLA

RLA NO.: LA6666736

FISCAL YEAR	SHEET NO.
18	IR01

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	RD-12-SAM-P45-NP with R-1318	23	360	45	1.96	18'
	RD-12-SAM-P45-NP with R-1724	10	360	45	3.67	23'
	RD-12-SAM-P45-NP with RVAN18	261	Adj	45		18'
	RD-12-SAM-P45-NP with R-VAN14	354	Adj	45		14'
	RD-12-SAM-P45-NP with R-VAN-1724	276	Adj	45		24'
	RD-12-SAM-P45-NP with R-VAN Strip	2	LCS	40	0.22	5'x15'
	RD-12-SAM-P45-NP with R-VAN Strip	1	RCS	40	0.22	5'x15'
	RD-12-SAM-P45-NP with R-VAN Strip	27	SST	40	0.44	5'x30'
	Four Rain Bird 1401 bubbler	53x2	360	30	4x.25	3'
	Two Rain Bird PCT-07 bubbler	449x2	360	30	2x.07	3'
	Two Rain Bird 1401 bubbler	45x2	360	30	2x.25	3'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY				
	Rain Bird PESB-R in 12" Purple Valve Box with Hunter ICD decoder. Install a 2" Nibco T113 isolation valve prior to each group of valves in a 12" Purple Valve Box.	31				
	Point of Connection- Existing 6" mainline and Hunter ID control wire. See E Town Phase 1 plans	2				
	Irrigation Lateral Line: PVC Class 200 Purple	23,500 l.f.				
	Irrigation Mainline: PVC 3" Class 200 Purple Gasket Bell	5,200 l.f.				
	Directional Bore: HDPE 3608 IPS SDR11 Directional Bore. All 3" directional bores to have fused ends and be used as the mainline. All 1-1/2" directional bores with the mainline shall be used for a control wire sleeve. All 1" directional bores shall have fused ends and be used for lateral pipe. Fused ends shall be HPDE to Schedule 40 fittings. All directional bores shall be a minimum 36" deep and extend a minimum of 30" past pavement.					



IRRIGATION NOTES:

1. The plans and drawings are diagrammatic of the work to be performed. Some components may be shown outside the work area for clarity. The work shall be executed in a manner to avoid conflicts with utilities and other elements of construction, including landscape materials. All deviations from the plans shall be approved by the owner’s representative before being installed. The contractor shall not willfully install any aspect of the irrigation system as shown on the plans and drawings, when it is obvious in the field that obstructions, grade differences, or discrepancies exist that might not have been known during the design of the irrigation system. In the event that notification of the conflict is not approved by the owner’s representative, the contractor will assume full responsibility for all revisions.

2. The irrigation system shall be installed in accordance with the plans, irrigation system specifications and all contract documents. The contractor shall comply with all prevailing local codes, ordinances, and regulations.

3. Contractor shall verify all site conditions, including utility locations, before installation of the irrigation system. All utilities and structures may not be shown on the plans – contractor to verify. Coordinate all irrigation system construction with existing and new plantings to avoid conflict or interference with location of piping, sleeving, cables, and service utilities. The contractor is responsible for coordinating installation with all other construction on site, especially landscape installation. Irrigation system shall 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 or called out on the drawings will not be accepted. All piping and other components are to remain within the property of the owner.

4. 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 of an irrigation sprinkler’s pattern, the component and piping shall be relocated as necessary to obtain the proper coverage without damaging the obstruction. Owner’s representative shall determine whether an obstruction occurs or not.

5. Component spacing are maximum. Do not exceed spacing shown or noted on the plans. Component spacing may be adjusted to accommodate changes in terrain and planting layout as long as the modified spacing do not exceed the spacing shown in the plans. Unless shown otherwise, contractor shall provide 100% coverage.

6. All materials and equipment shown shall be new and 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 and instructions recommended by their manufacturer.

7. The location of the irrigation mainline shall be identified in the field and approved by the owner’s representative before installation.
8. Irrigation contractor shall adjust all sprinklers, controller and other devices to obtain specified operating parameters, including coverage, operating pressure, flow rates and operation time, as indicated on the drawings and in the irrigation system specifications.

9. Contractor to provide installation shop drawings and manufacturer product information for all irrigation components. All installations shall be as recommended by manufacturers. The quantities shown in the legends and symbol sheets shall not be used for bidding purposes. The contractor will be responsible for conducting a comprehensive materials takeoff to determine the actual quantities of material necessary to execute the work described in the documents.

10. 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.

11. All solvent welding shall be preceded by priming of the fittings and pipe as recommended by the manufacturer.

12. Irrigation contractor to install Christy zone tags with the corresponding controller zone number.

13. All changes of direction mainline fittings shall be accomplished via the use of ductile iron elbows and tees w/ proper thrust blocking. Install PVC gasket service tees at valve locations.

14. The irrigation contractor shall be directly responsible for all directional boring.

15. All unsized pipe shall be 3/4”.

16. Irrigation lateral lines to be buried at a depth of 12”.

17. Irrigation mainlines to be buried at a depth of 18”.

18. All components installed by the irrigation contractor, shall be located on the ”AS–BUILT” drawings. The mainline, control valves, isolation valves, ground rods and spliced boxes shall be located with a measurement from two fixed points.

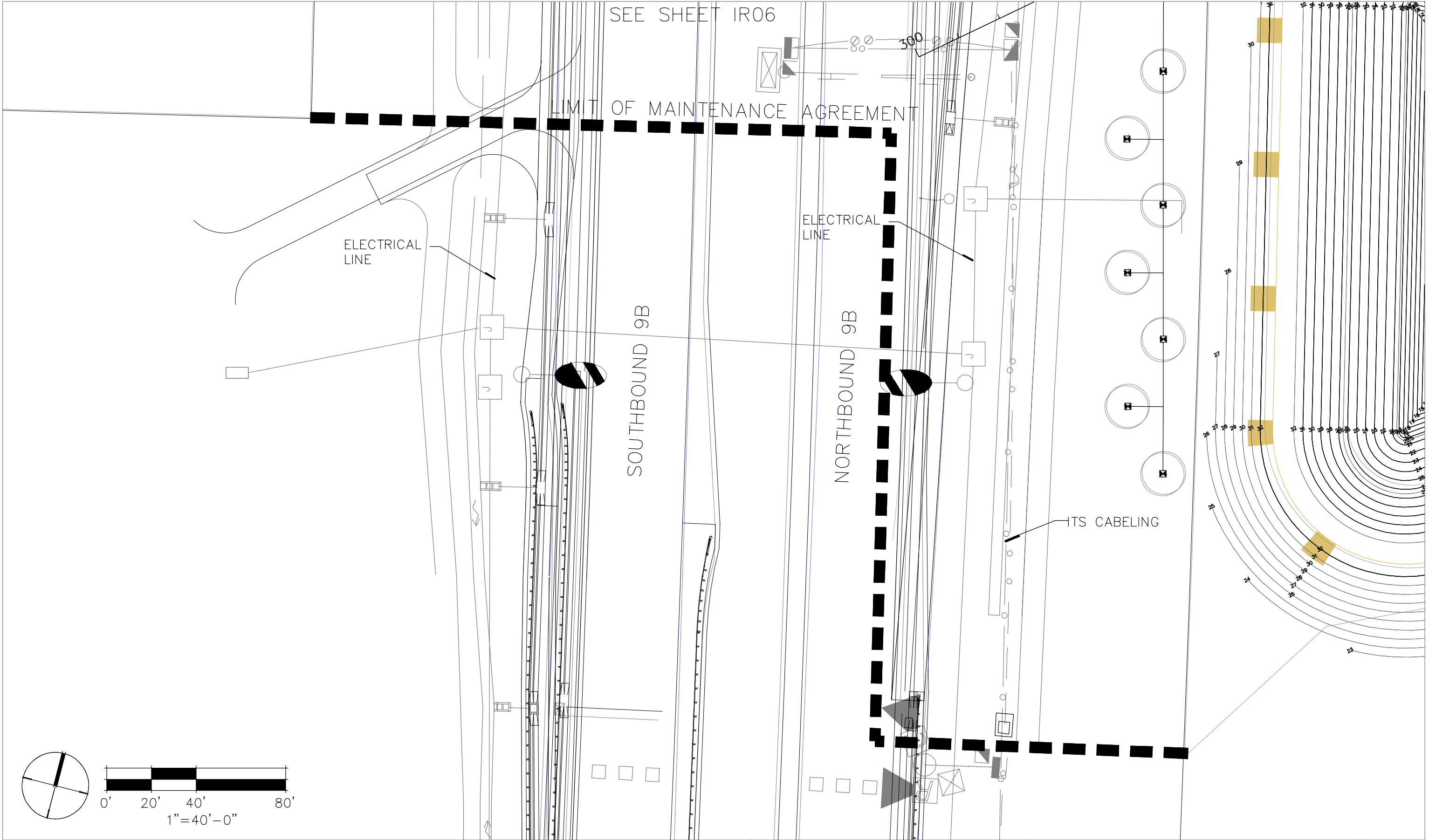
19. Irrigation contractor shall secure any and all necessary permits for the work prior to commencement of his operations on–site. Copies of the permits shall be sent to the landscape supervisor.

20. Install Leemco restraints for all mainline isolation valves per manufacture specifications.


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	ETM JOB NO.:		IR03
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IRRIGATION NOTES (continued):

21. The control wire shall be Hunter ID1pur. All splices into Hunter IDwire1 control wire to be made with 3M—dbr6 water proof connectors. All wire splices from the decoder to the control valve to be made with 3M—dby6 wire connectors. The control wire shall be grounded every 500’ along the wire path. Install Hunter ICD decoders at valve locations.
22. Multiple zones to operate at one time with total flow not to exceed 70 gpm on either side of E Town parkway off a 3” mainline.



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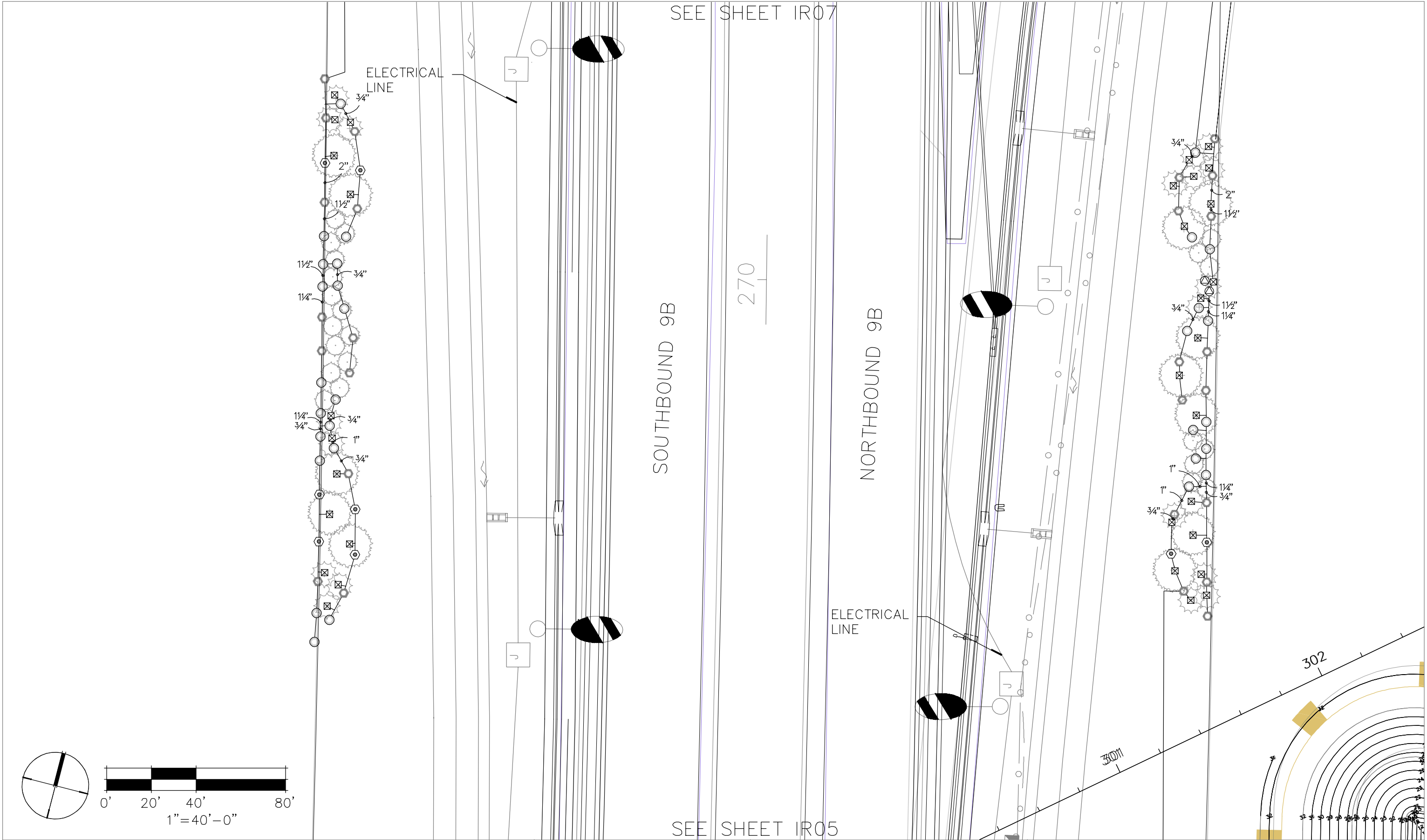
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ROAD NAME	COUNTY	ETM JOB NO.:
SR 9B & E-TOWN PKWY	DUVAL	13-102-02

S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

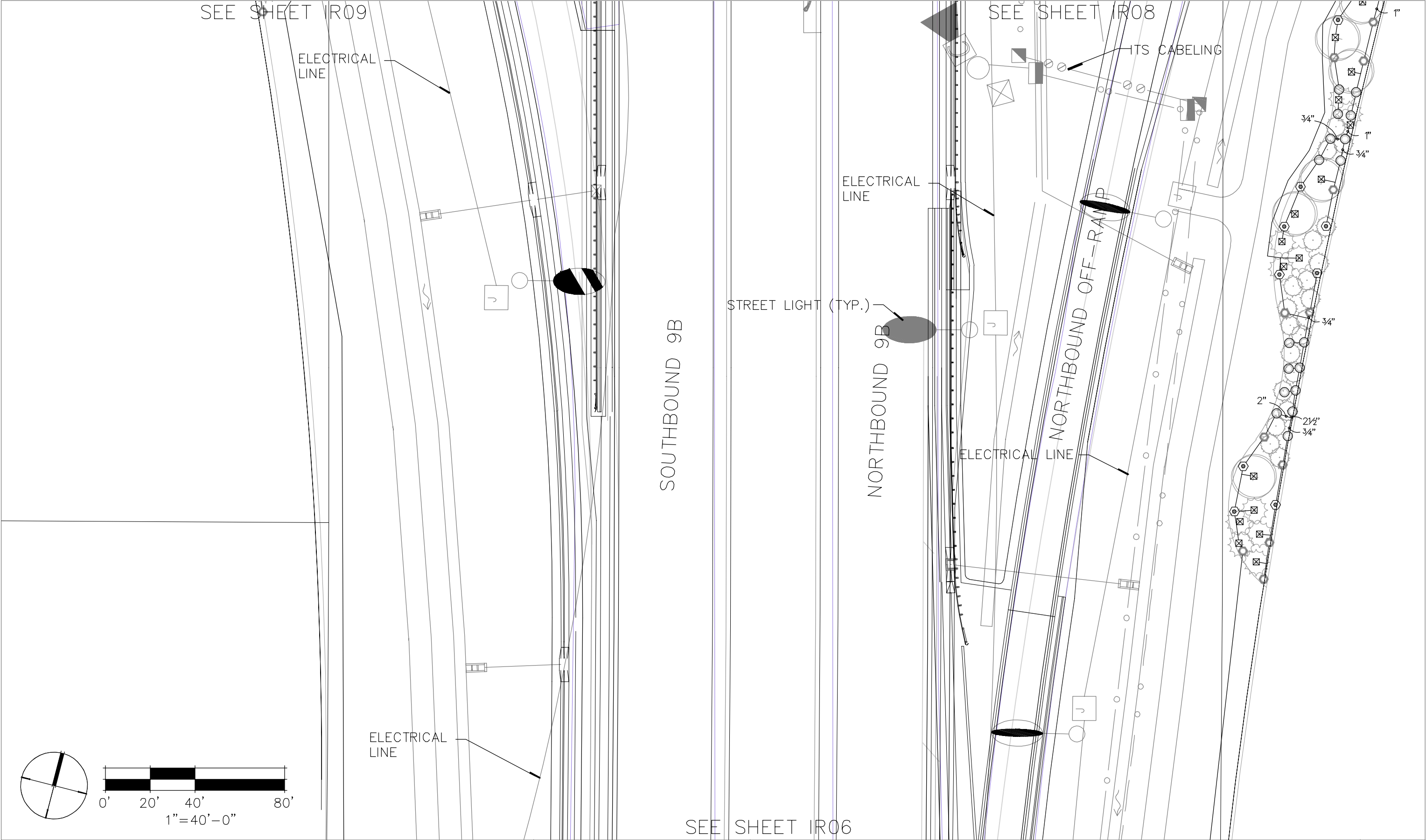
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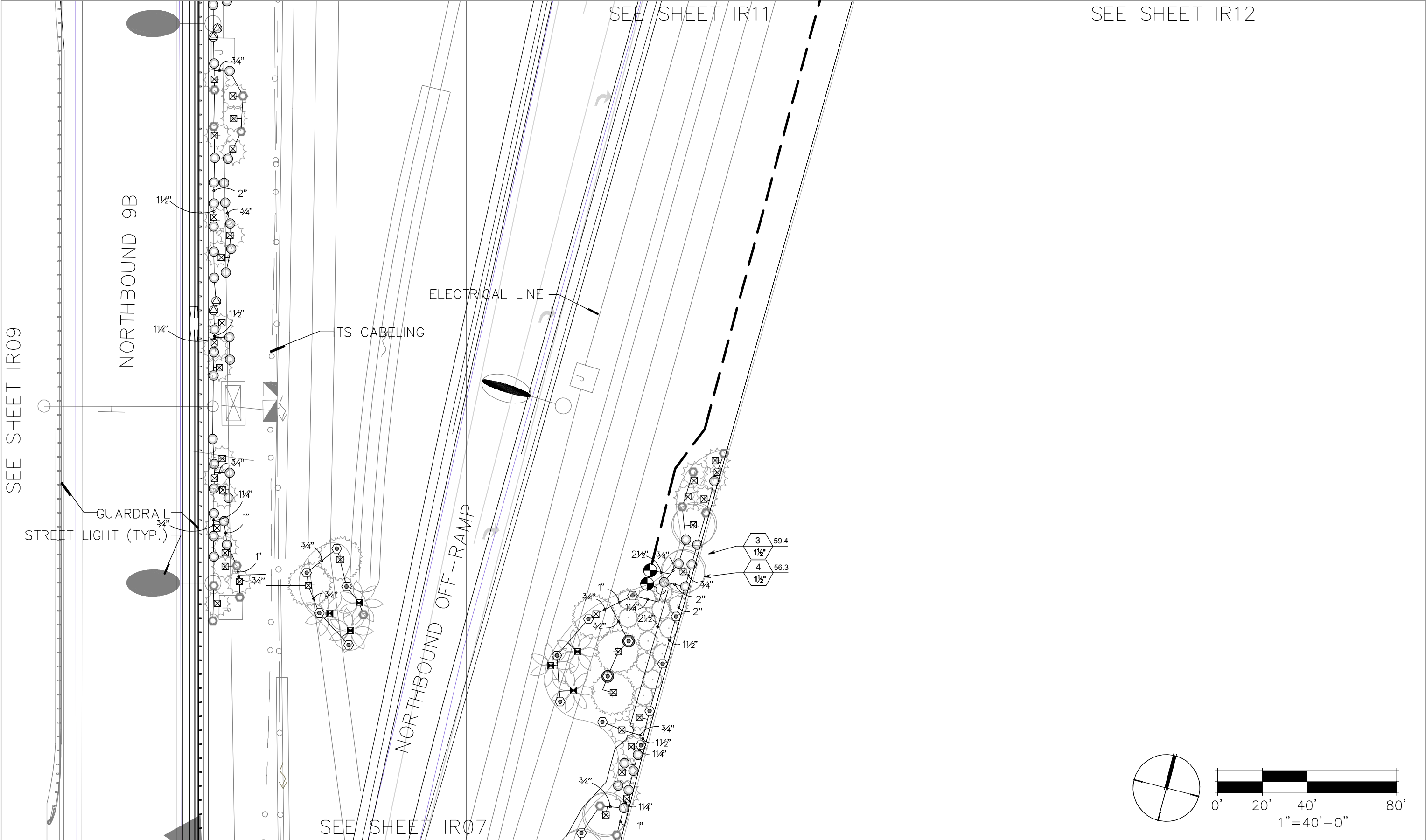
<b>S.R. 9B AND E-TOWN PKWY IRRIGATION PLAN</b>		SHEET NO. IR06
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ROAD NAME	COUNTY	ETM JOB NO.:													
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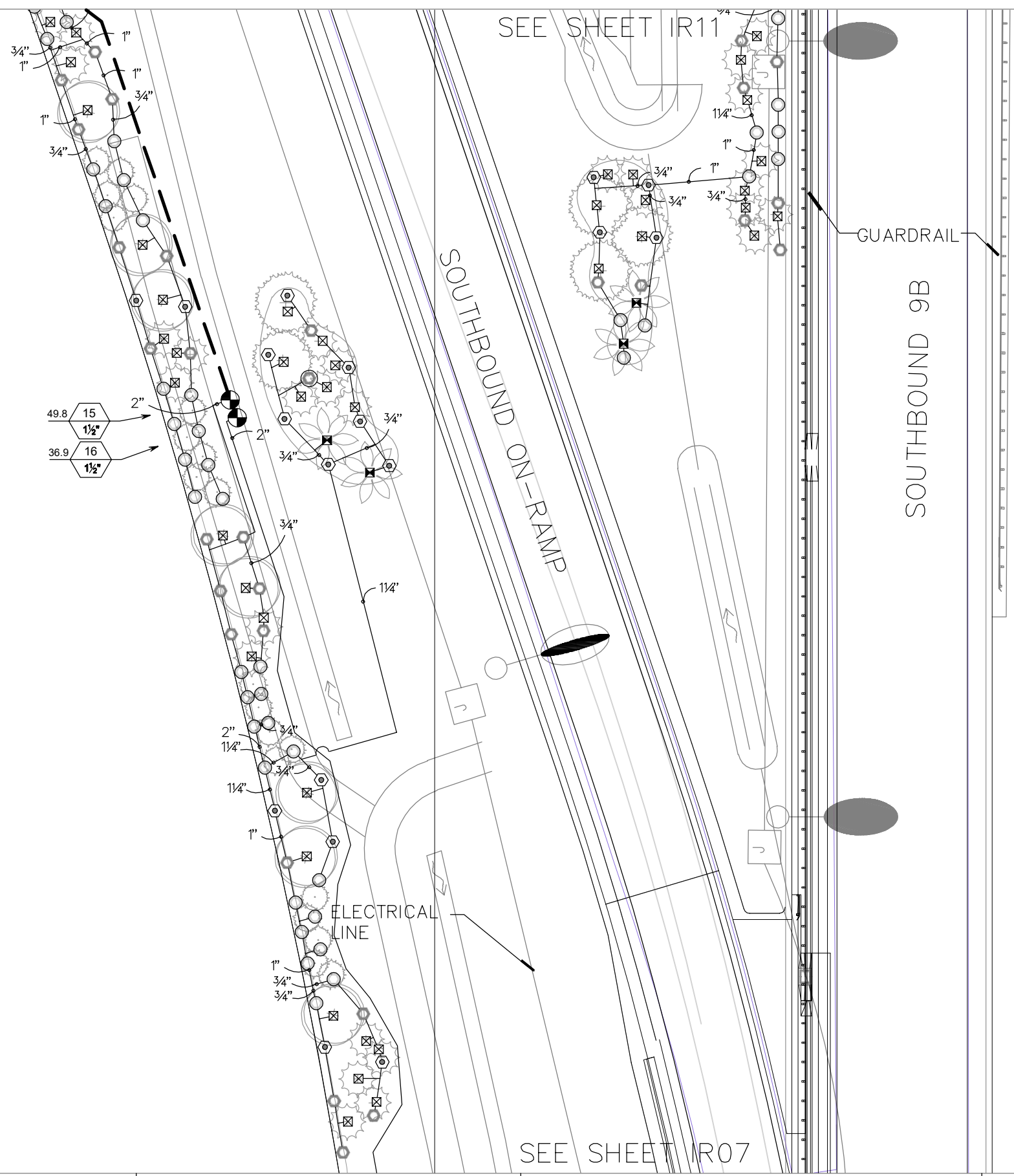
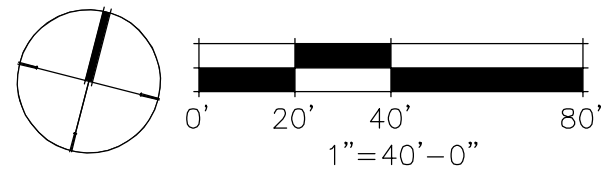
S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

SHEET NO.  
IR08




SEE SHEET IR10

SEE SHEET IR11



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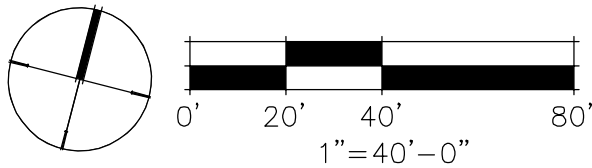
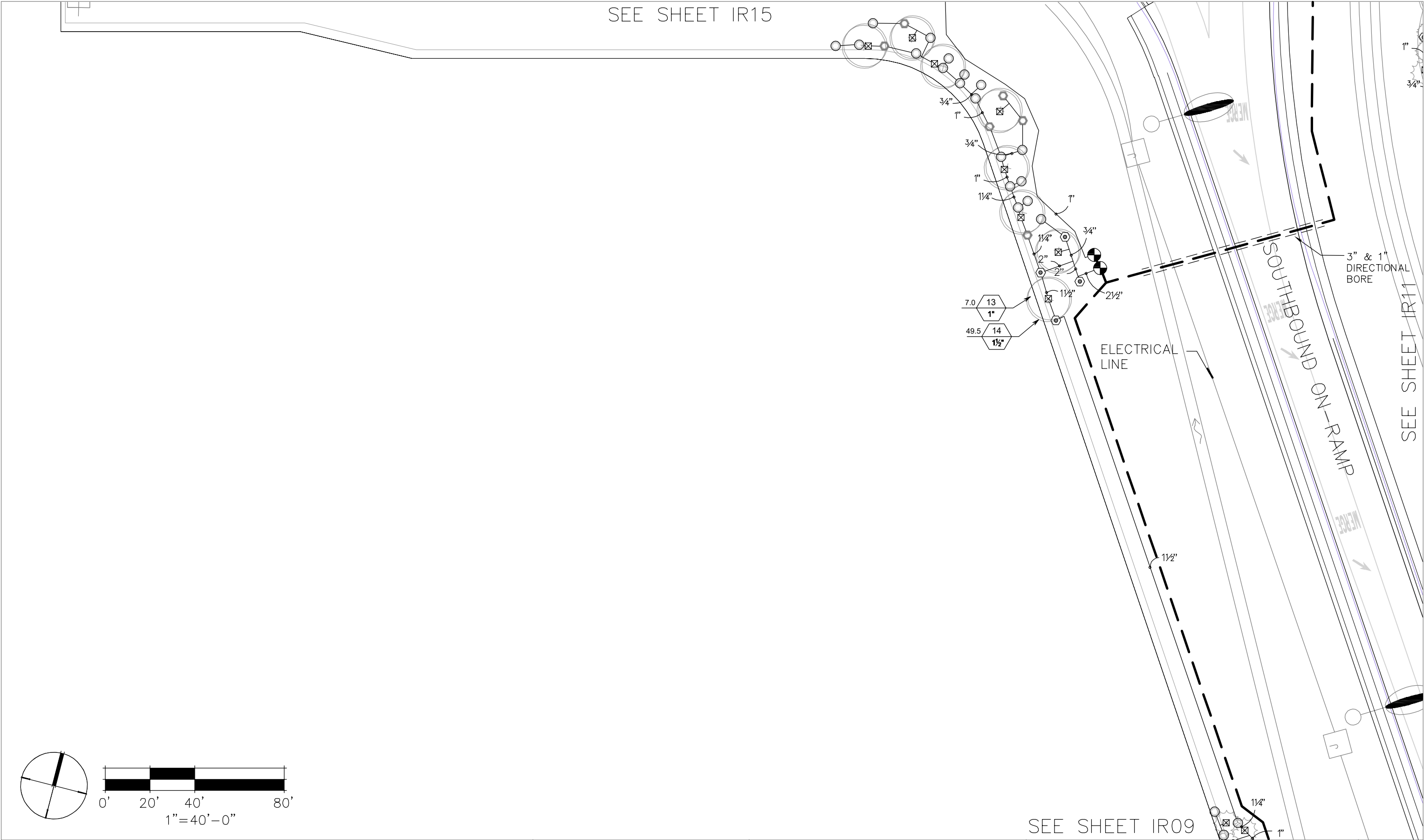
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SR 9B & E-TOWN PKWY	DUVAL	13-102-02

*S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN*

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IR11

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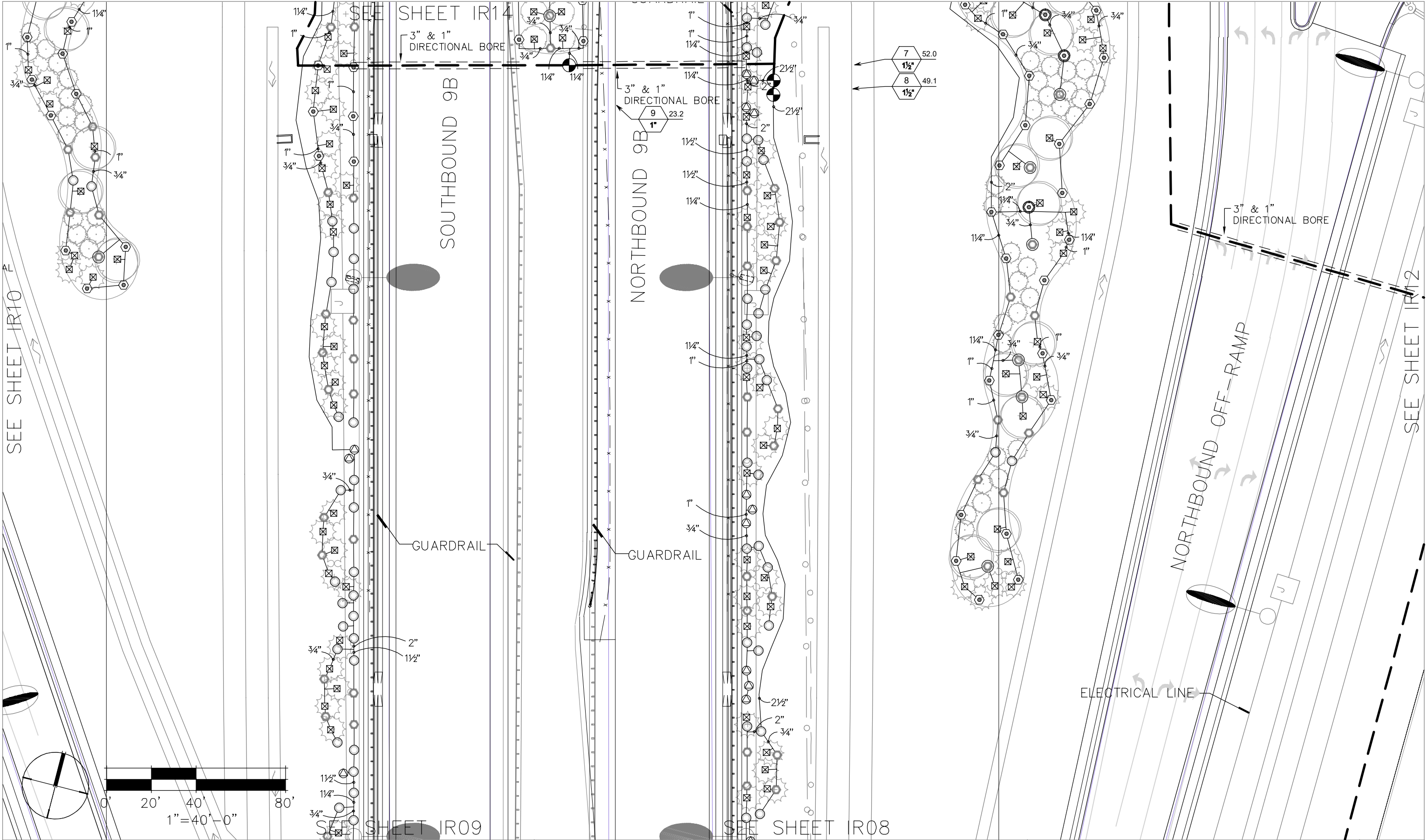
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S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

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IR10



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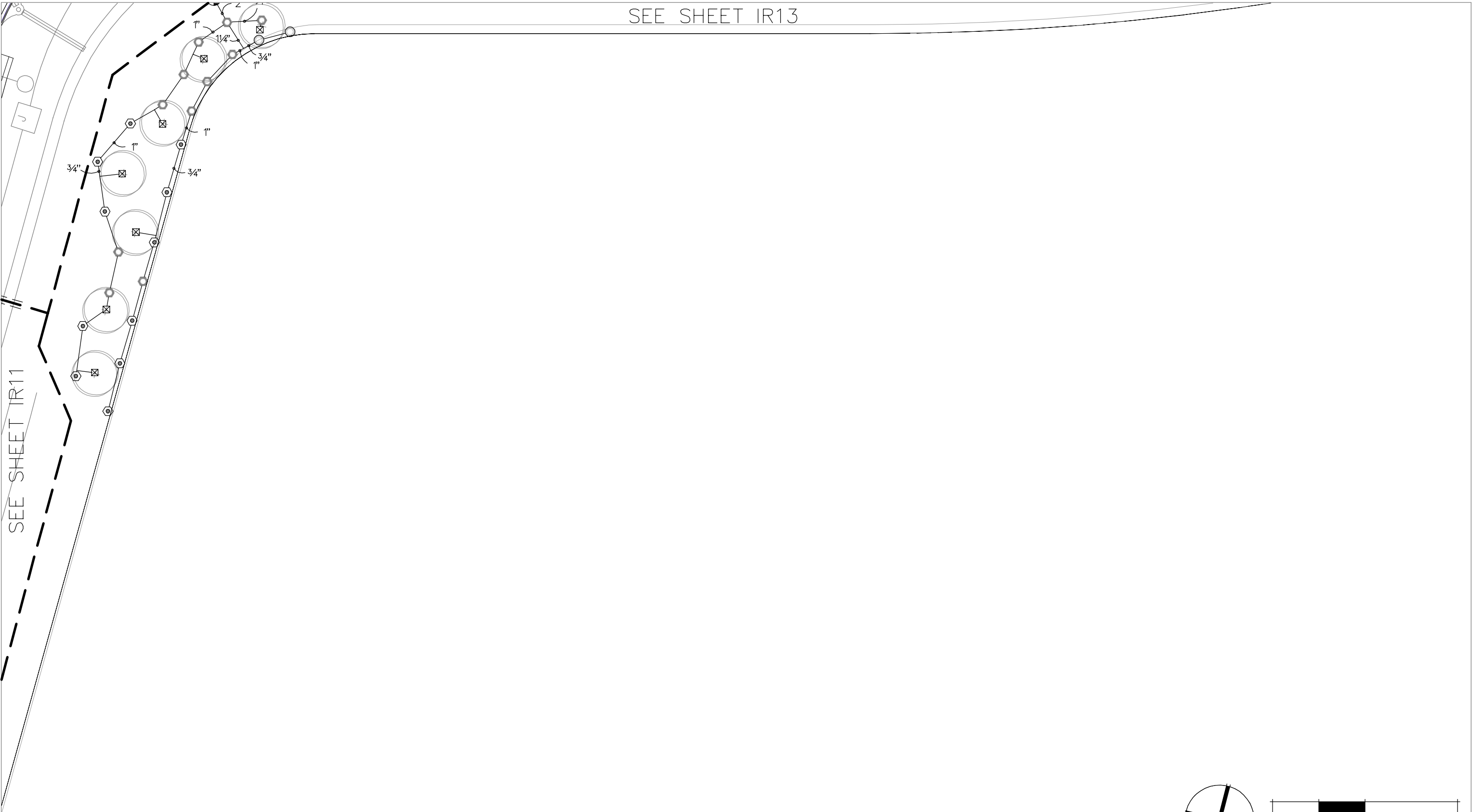
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S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

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IR13



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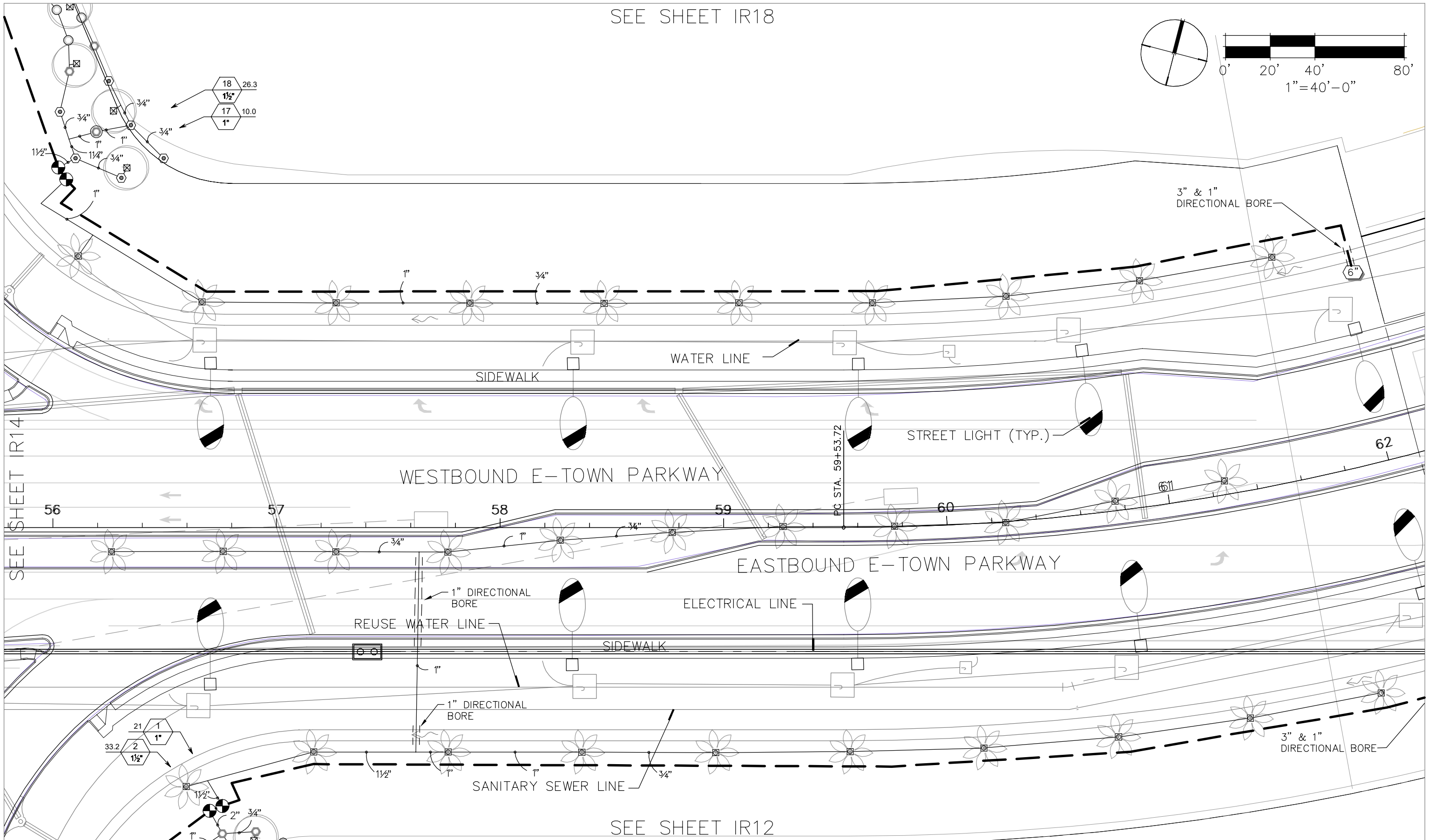
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IRRIGATION PLAN

SHEET NO.
IR12





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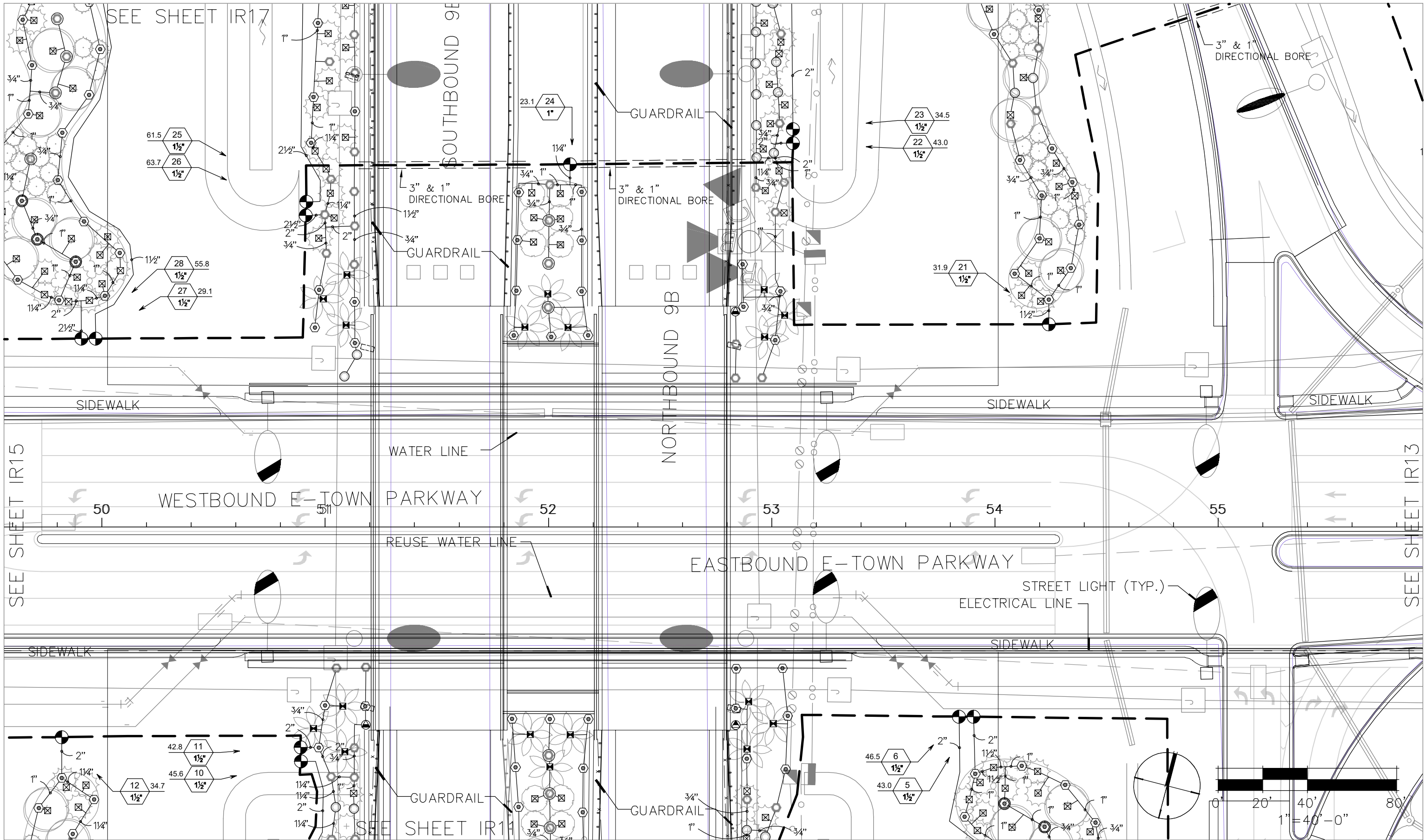
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<b>THE PARC GROUP</b>		ROAD NAME	COUNTY
SR 9B & E-TOWN PKWY		DUVAL	ETM JOB NO.:
			13-102-02

S.R. 9B AND E-TOWN PKWY IRRIGATION PLAN		SHEET NO. IR13
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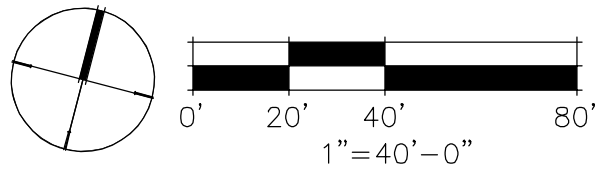
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S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

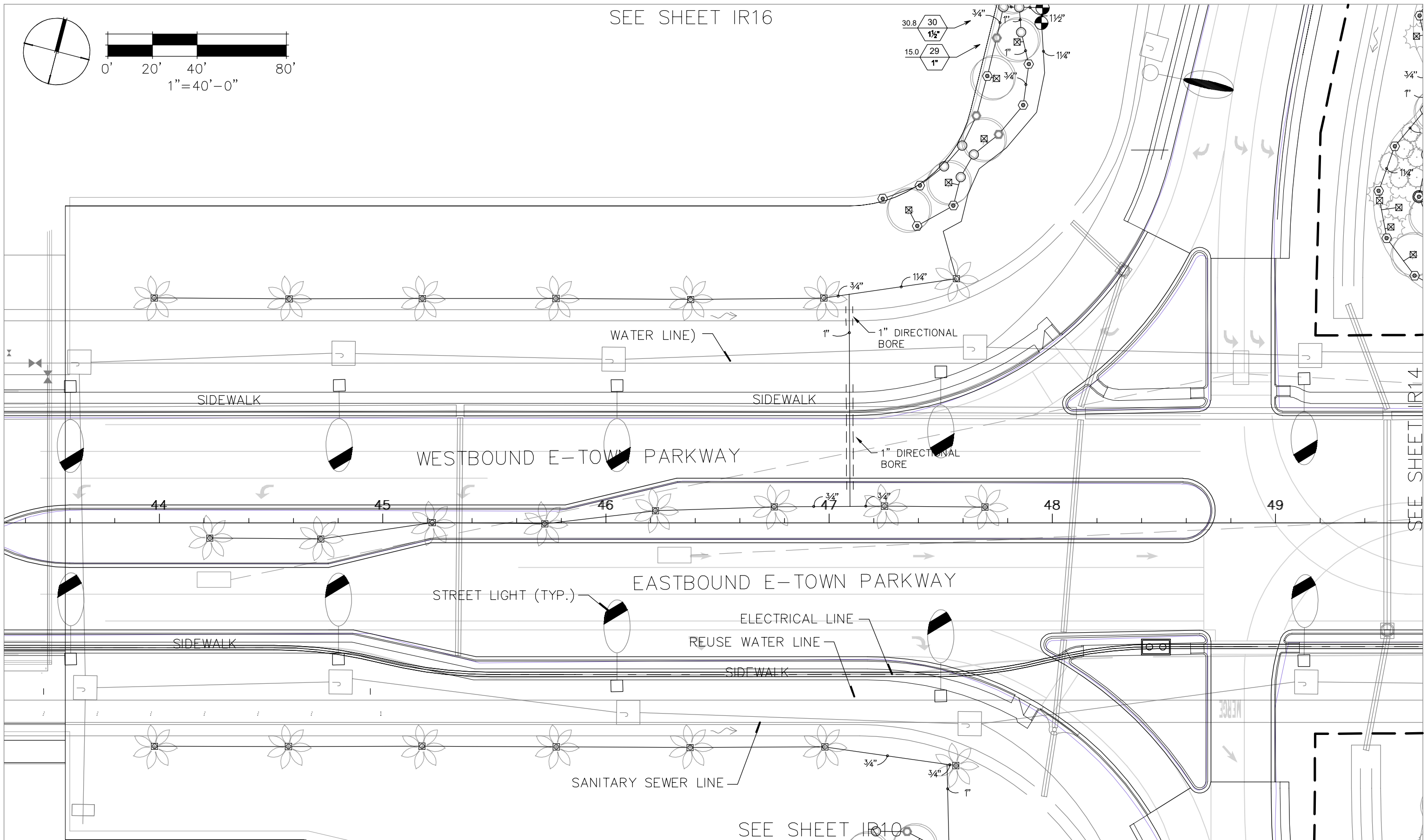
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S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

SHEET NO.  
IR17

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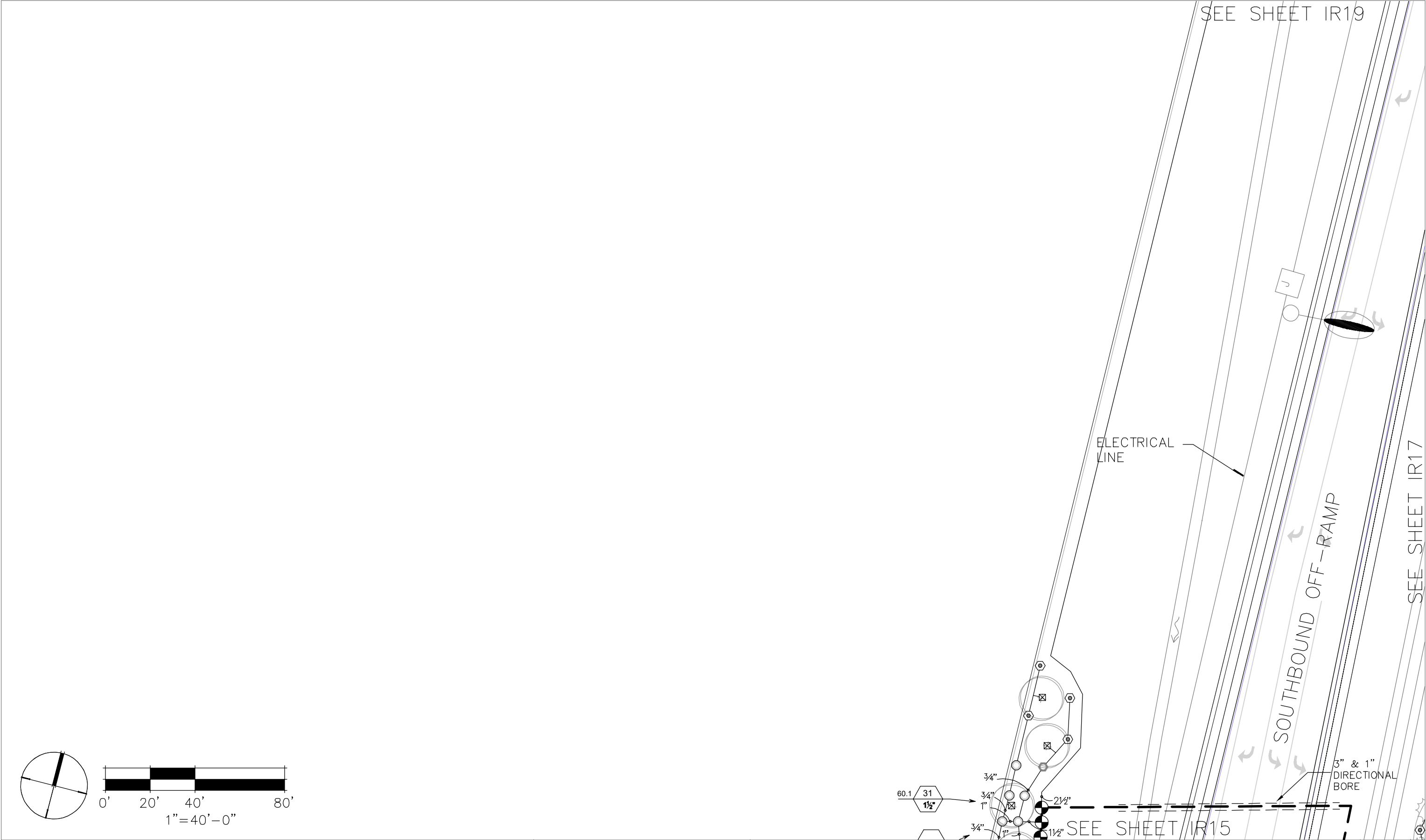
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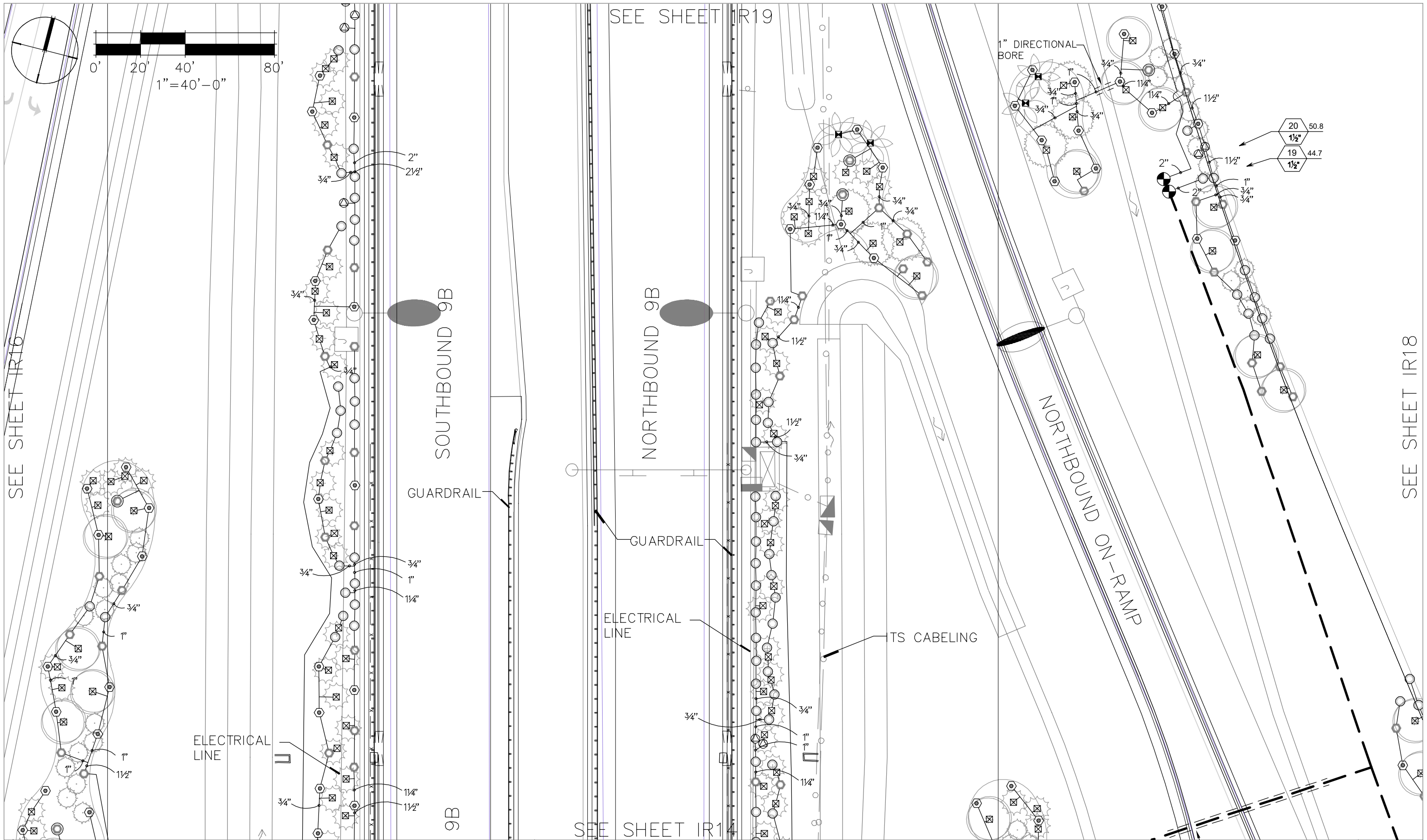


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SR 9B & E-TOWN PKWY	DUVAL	13-102-02

S.R. 9B AND E-TOWN PKWY IRRIGATION PLAN		SHEET NO. IR18
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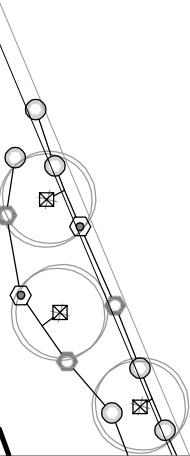
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S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

SHEET NO.  
IR17

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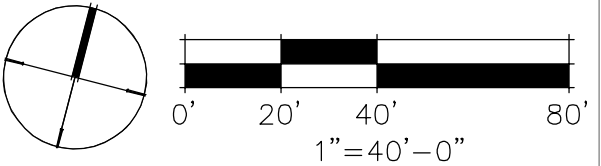
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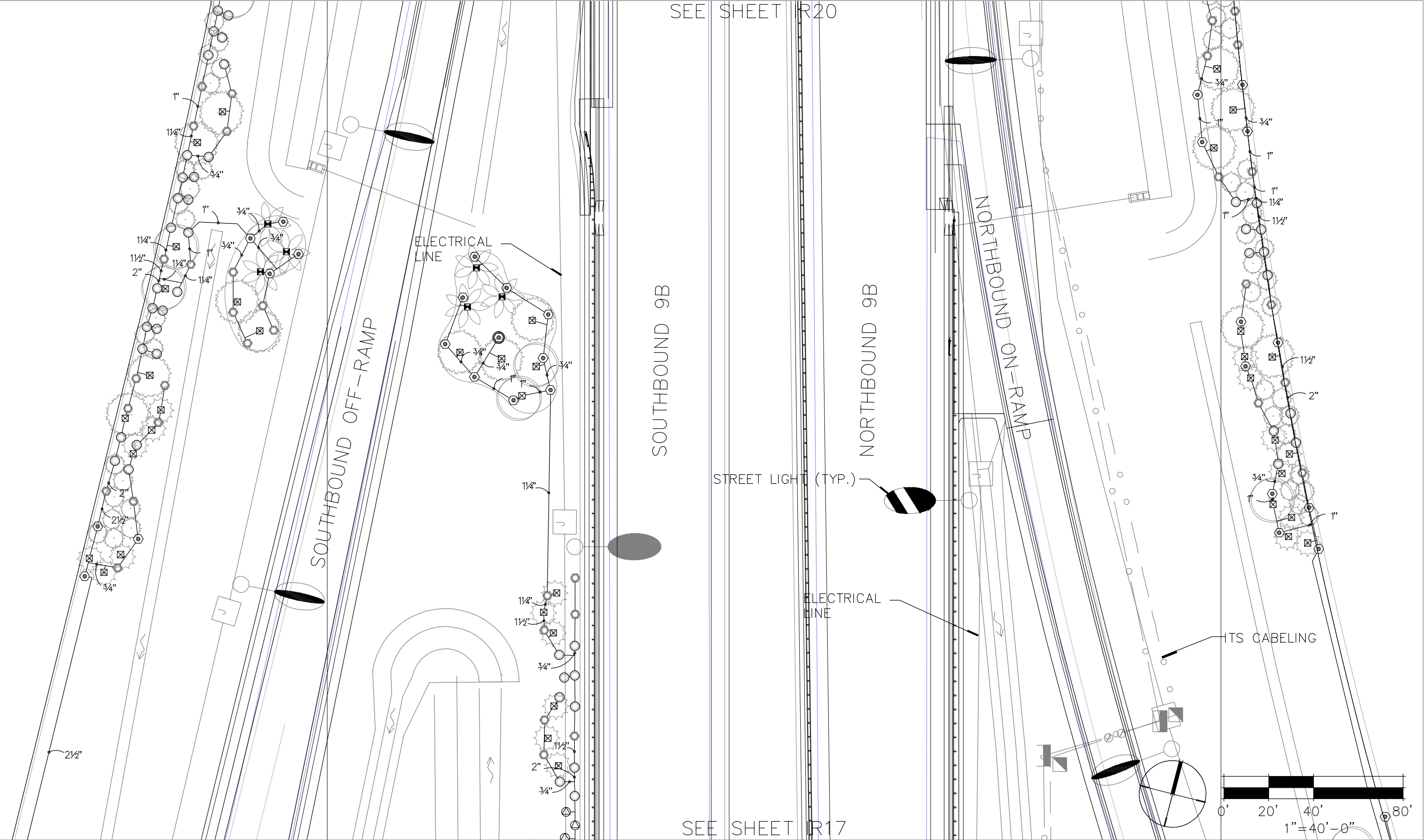
THE PARC GROUP		
ROAD NAME	COUNTY	ETM JOB NO.:
SR 9B & E-TOWN PKWY	DUVAL	13-102-02

S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

SHEET NO.
IR18







R E V I S I O N S			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ETM**  
VISION • EXPERIENCE • RESULTS  
KARL M. SODERHOLM, PLA

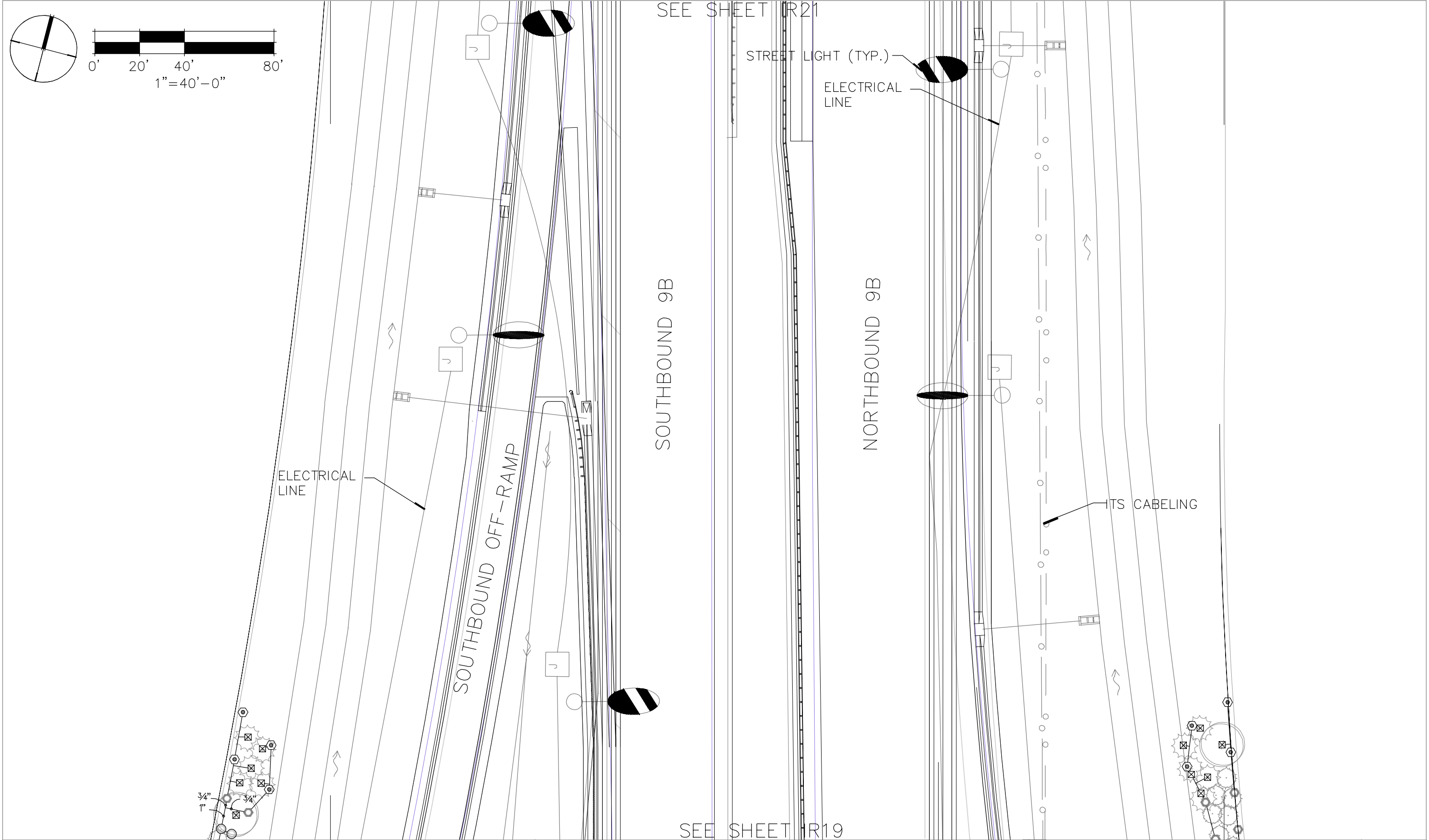
England-Thing & Miller, Inc.  
14775 Old St. Augustine Road  
Jacksonville, FL 32258  
TEL: (904) 642-8990  
FAX: (904) 646-9485  
CA - 00002584 LC - 0000316  
LICENSE NO. LA6666736

**THE PARC GROUP**

ROAD NAME	COUNTY	ETM JOB NO.:
SR 9B & E-TOWN PKWY	DUVAL	13-102-02

S.R. 9B AND E-TOWN PKWY  
IRRIGATION PLAN

SHEET NO.
IR19



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ETM

VISION • EXPERIENCE • RESULTS

England-Thing & Miller, Inc.

14775 Old St. Augustine Road  
Jacksonville, FL 32258

TEL: (904) 642-8990  
FAX: (904) 646-9485  
CA - 00002584 LC - 0000316

KARL M. SODERHOLM, PLA

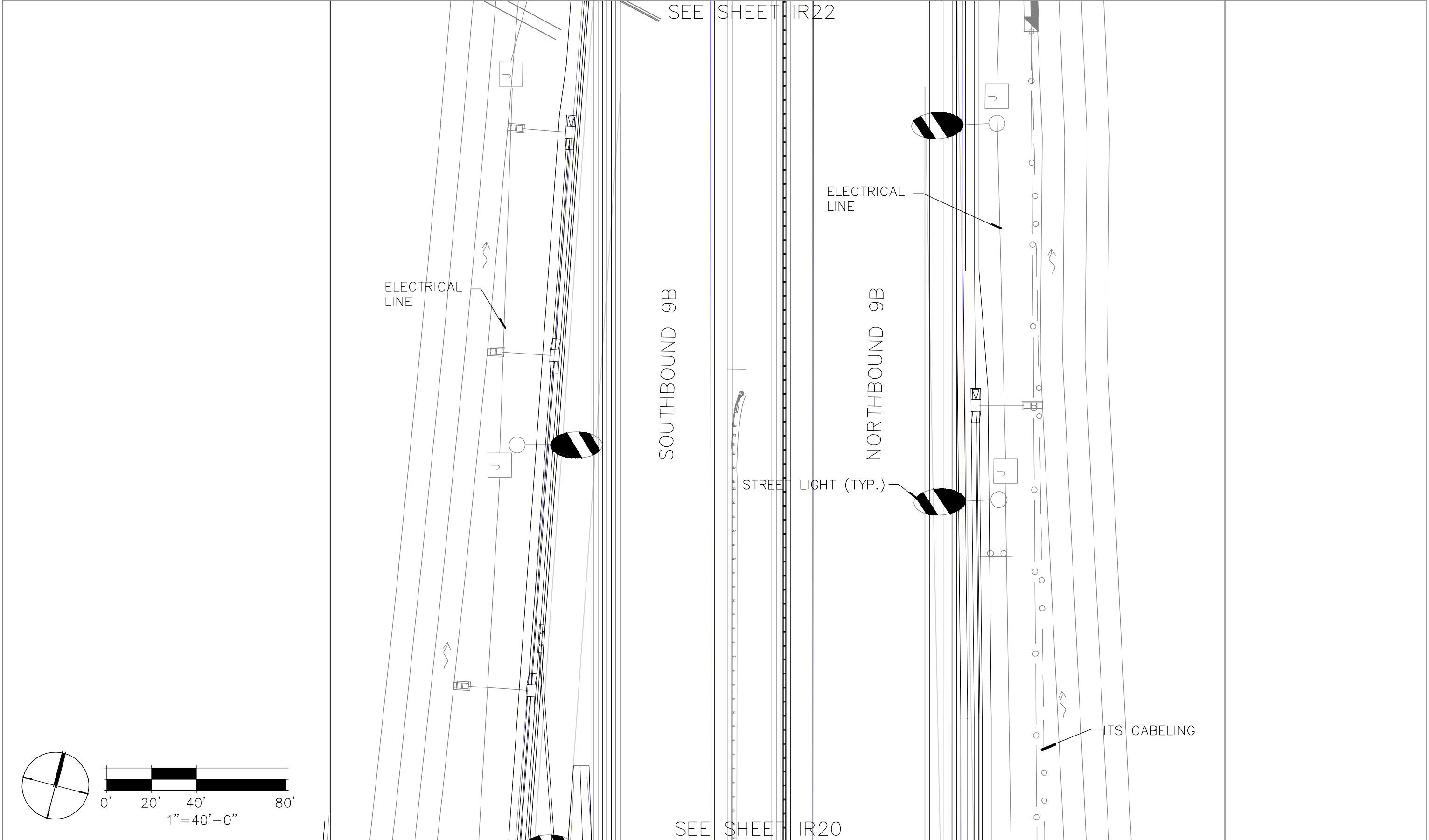
LICENSE NO. LA6666736

THE PARC GROUP		
ROAD NAME	COUNTY	ETM JOB NO.:
SR 9B & E-TOWN PKWY	DUVAL	13-102-02

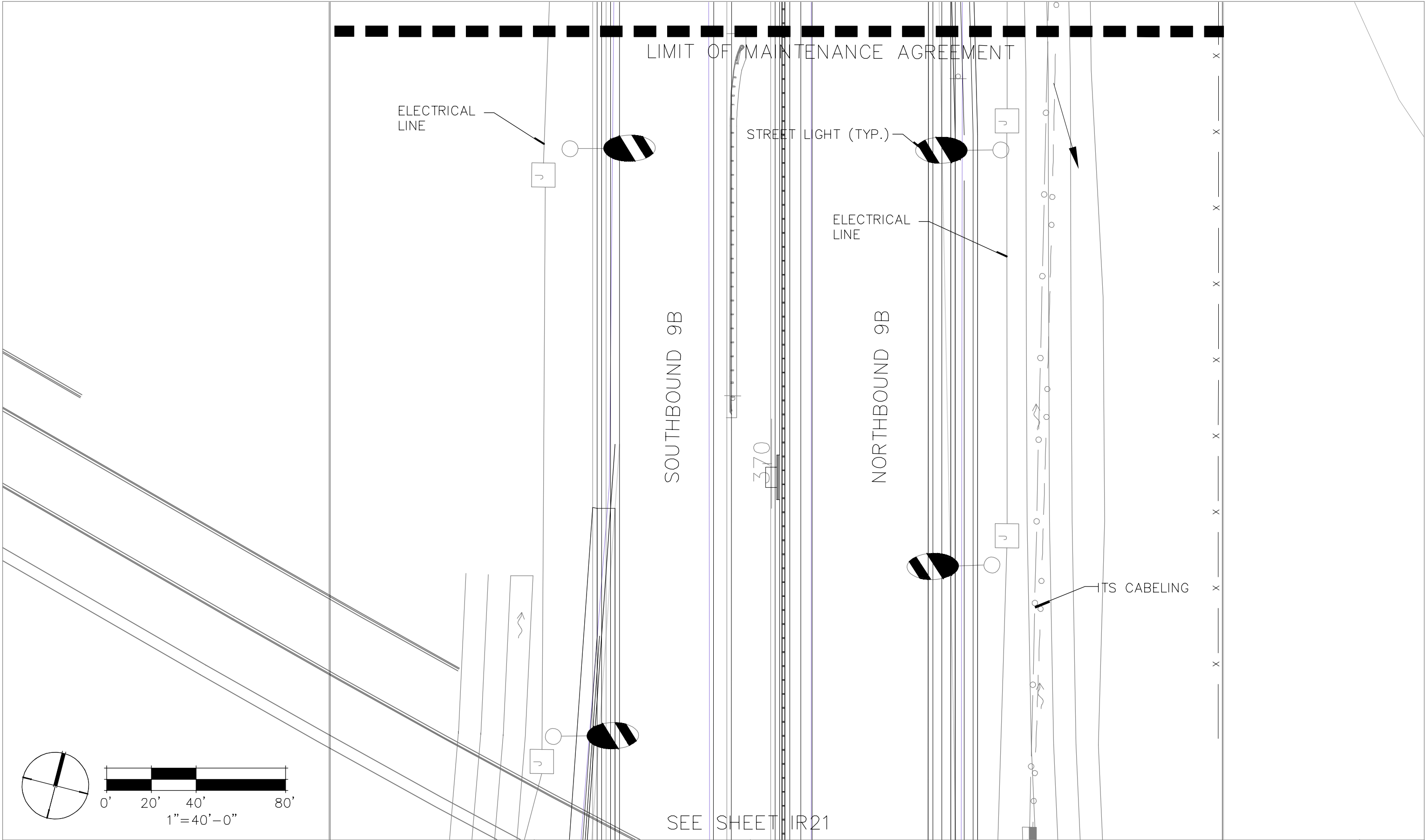
S.R. 9B AND E-TOWN PKWY  
LANDSCAPE PLAN

SHEET NO.  
  
IR20

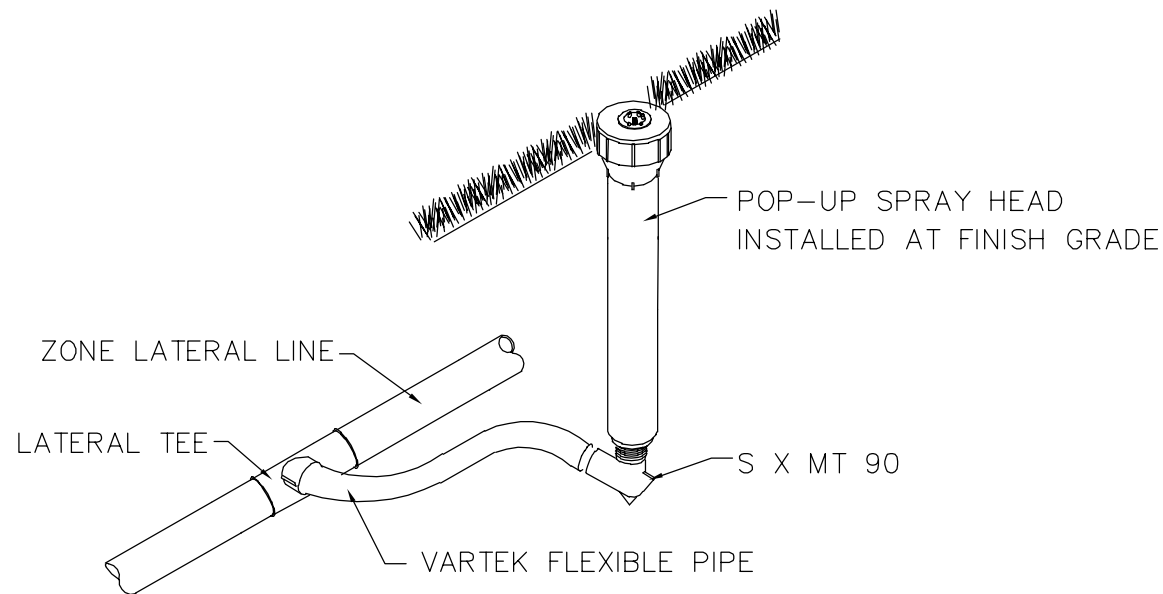
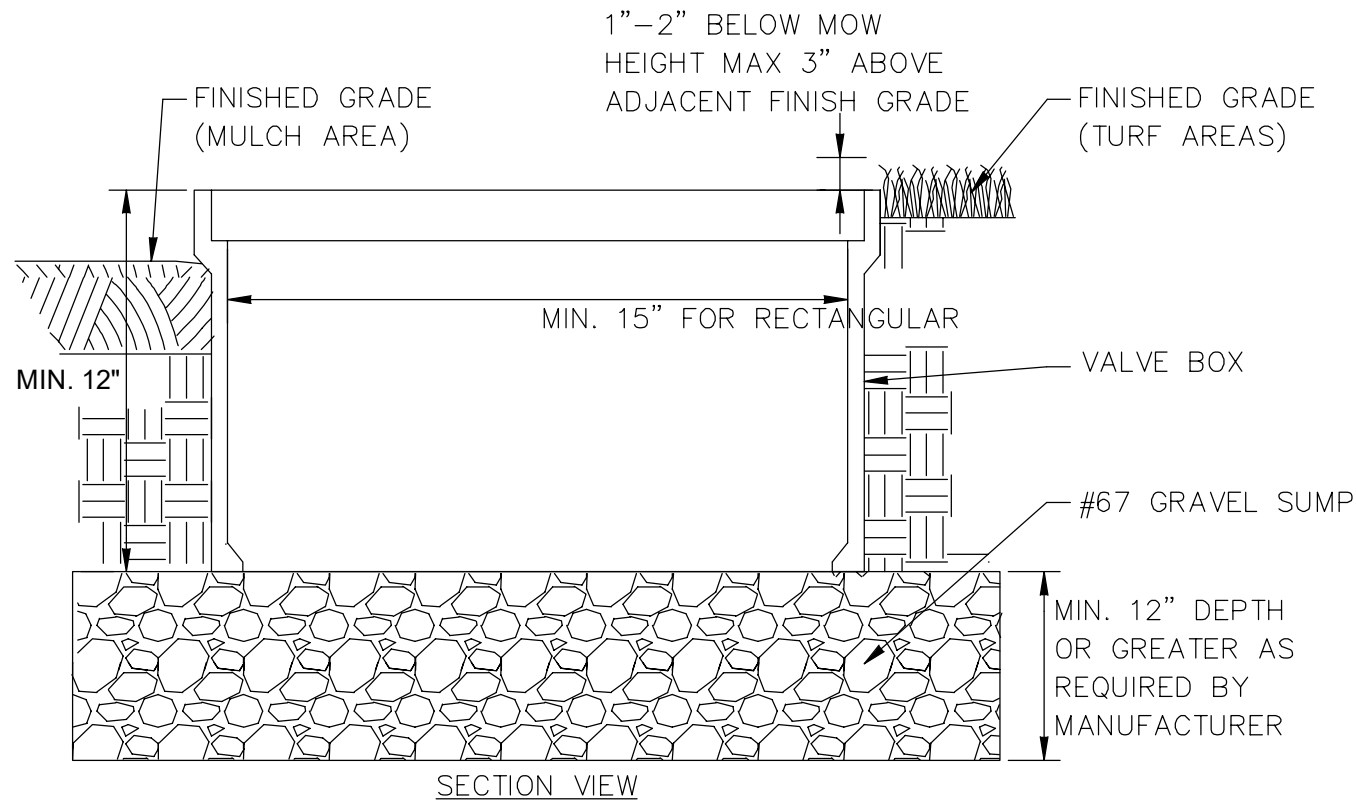




R E V I S I O N S				<div>ETMEngland-Thing &amp; Miller, Inc.14775 Old St. Augustine RoadJacksonville, FL 32258TEL: (904) 642-8990FAX: (904) 646-9485CA - 00002584 LC - 0000316KARL M. SODERHOLM, PLA LICENSE NO. LA6666736</div>	THE PARC GROUP		S.R. 9B AND E-TOWN PKWY LANDSCAPE PLAN	SHEET NO.  IR21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY		
					SR 9B & E-TOWN PKWY	DUVAL	ETM JOB NO.: 13-102-02	



REVISIONS				<div><div>ETM</div><div>England, Thibault &amp; Miller, Inc.</div><div>14775 Old St. Augustine Road Jacksonville, FL 32258 TEL: (904) 642-8990 FAX: (904) 646-9485 CA - 00002584 LC - 0000316</div></div>	THE PARC GROUP			S.R. 9B AND E-TOWN PKWY IRRIGATION PLAN	SHEET NO. IR22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	ETM JOB NO.:		
				KARL M. SODERHOLM, PLA LICENSE NO. LA6666736	SR 9B & E-TOWN PKWY	DUVAL	13-102-02		

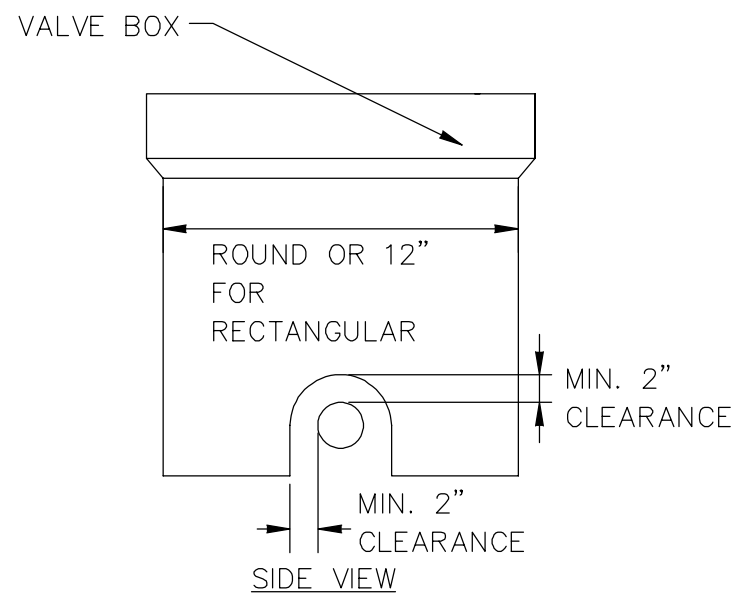


## SPRAY HEAD INSTALLATION DETAIL

SCALE: NTS

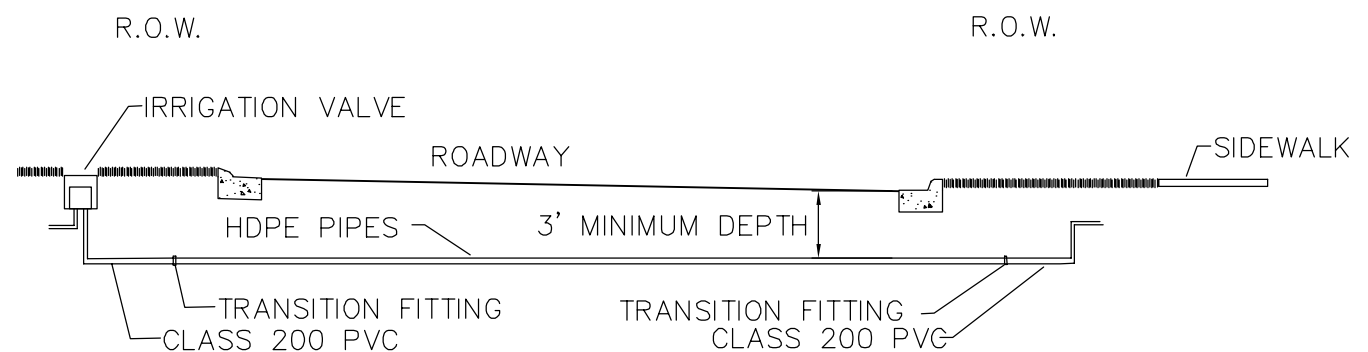
### NOTES:

1. INSTALL BOX TOP BETWEEN 1"–2" BELOW MOW HEIGHT IN TURF AREAS. INSTALL BOX 2" ABOVE MULCH IN MULCHED SHRUB AREAS.
2. INSTALL ALL VALVES, WIRE SPECS, ETC., IN LANDSCAPED BEDS WHEREVER POSSIBLE AND AS FAR AWAY FROM VEHICULAR TRAVEL LANES AS FEASIBLE.
3. INSTALL ONE VALVE PER VALVE BOX.
4. SEE PLANS FOR BOX LOCATION, SIZE, AND SHAPE.



## VALVE BOX DETAIL

SCALE: NTS



## CROSS SECTION

SCALE: NTS

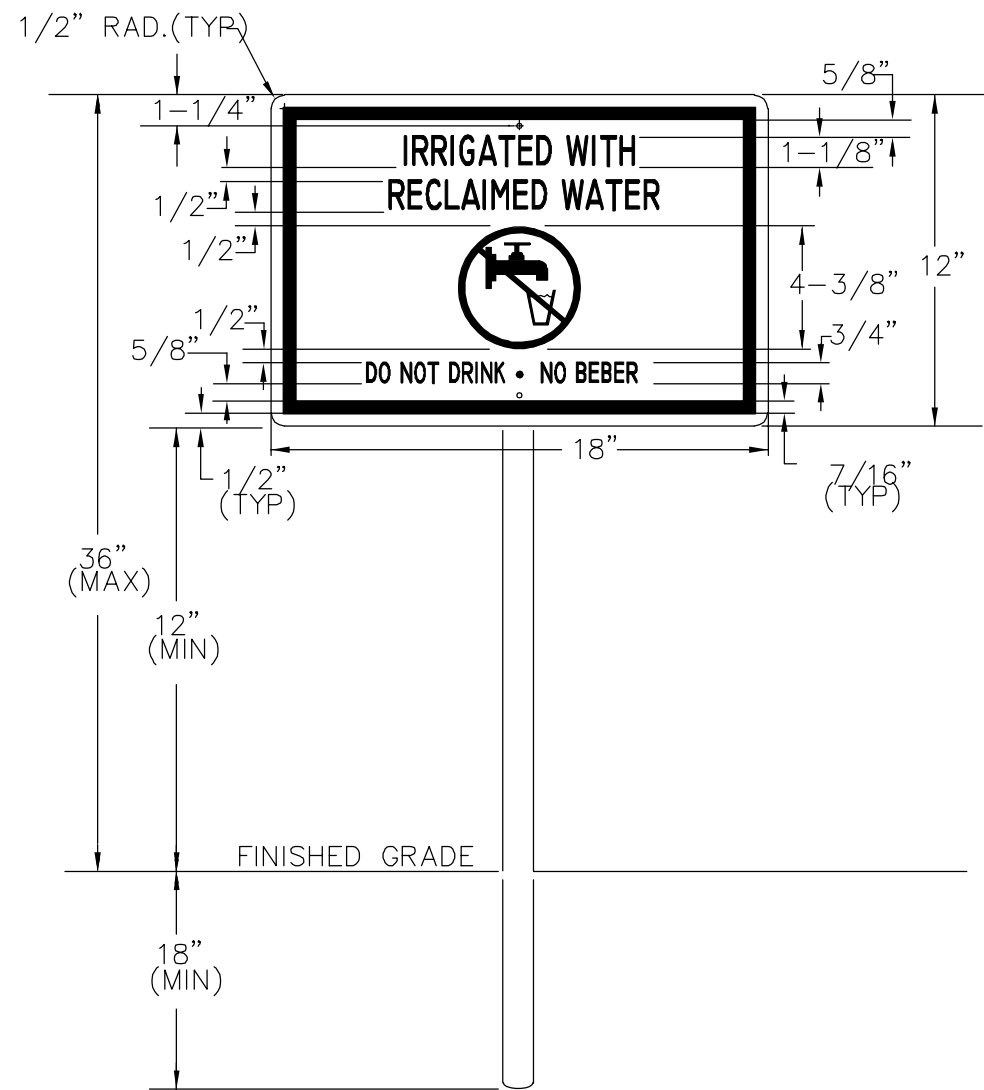
REVISIONS				<div> <b>ETM</b> </div> <div> <b>England-Thins &amp; Miller, Inc.</b>  <small>14775 Old St. Augustine Road Jacksonville, FL 32258</small>  <small>TEL: (904) 642-8990 FAX: (904) 646-9485 CA - 00002584 LC - 0000316</small> </div> <div> <small>KARL M. SODERHOLM, PLA</small> </div> <div> <small>LICENSE NO. LA6666736</small> </div>	<div> <b>THE PARC GROUP</b> </div> <div> <small>ROAD NAME</small> COUNTY <small>ETM JOB NO.:</small> </div> <div> <small>SR 9B &amp; E-TOWN PKWY</small> DUVAL <small>13-102-02</small> </div>	<div> <b>S.R. 9B AND E-TOWN PKWY</b>  <b>IRRIGATION DETAILS</b> </div>	<div> <b>SHEET NO.</b>  <b>IR23</b> </div>
DATE	DESCRIPTION	DATE	DESCRIPTION				

ClarkR

1/31/20

12:18:43 pm

G:\13-102\13-102-02\Landscape\Plot\13-102-02 IRR-plot.dwg



NOTE:  
1. INSTALL ALL WIRE SPLICES  
IN 10" VALVE BOX.

WIRE NUT UL SIZED\_ AND RATED FOR NUMBER OF WIRES  
AND VOLTAGE

STEP 1  
STRIP WIRES ACCORDING TO MANUFACTURER'S  
INSTRUCTIONS, TWIST TOGETHER TO FORM SOLID  
CONNECTION

STEP 2

TWIST WIRE NUT ONTO WIRE  
ENDS

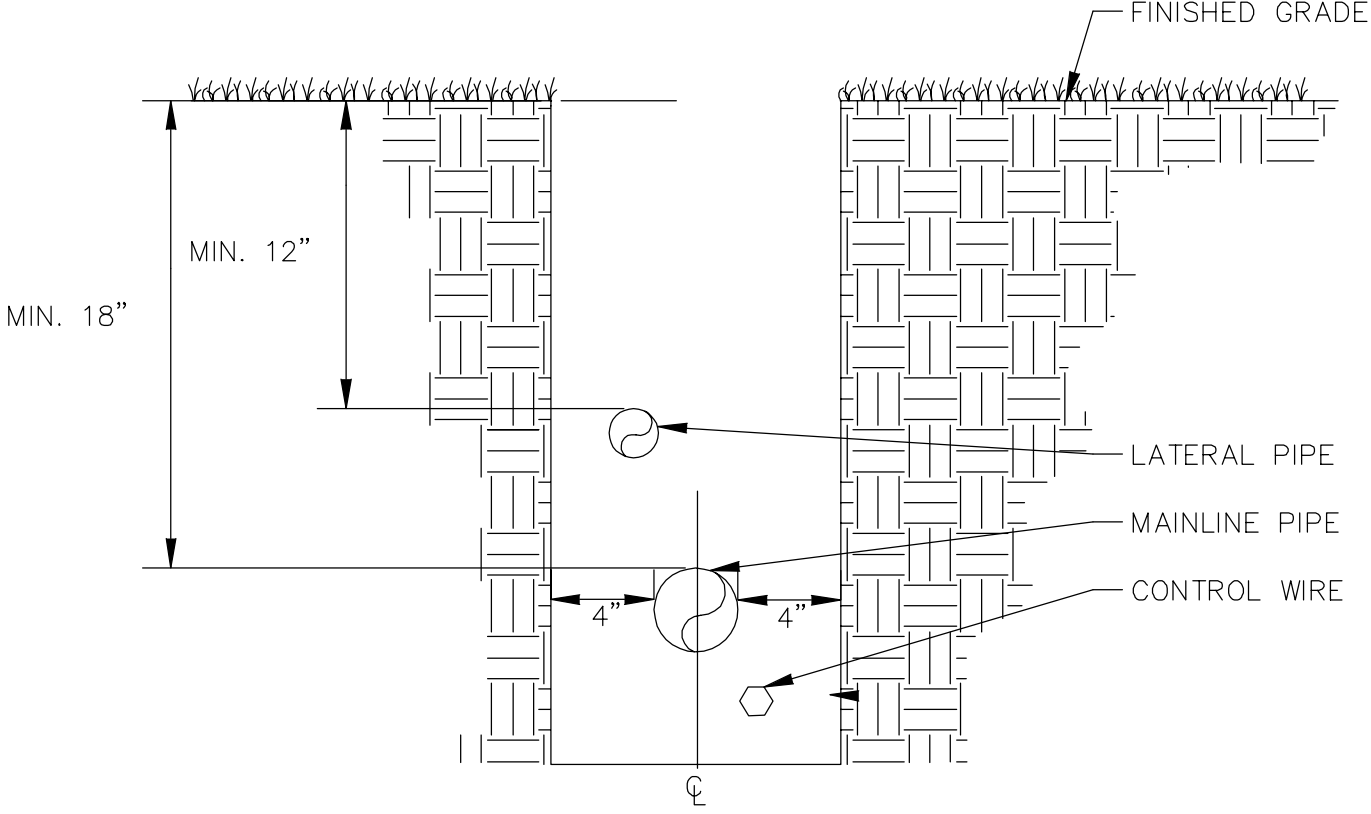
STEP 3  
INSERT WIRE  
NUT INTO  
CONNECTOR  
AS REQUIRED  
BY  
MANUFACTURER

STEP 4  
SNAP LID  
CLOSED

STRAIN RELIEF  
SYSTEM

STEP 5  
VERIFY WIRE  
POSITION AND  
SECURE LID  
CONNECTION

HIGH IMPACT UV  
RESISTANT TUBE  
PREFILLED WITH  
MOISTURE  
RESISTANT GEL



- NOTES:
- ALL TRENCHING TO BE OUTSIDE OF EXISTING TREE DRIP LINE.
  - NO ROCKS, BOULDERS, OR SHAPR OBJECTS TO BE IN TRENCH BACKFILL.
  - ALL PIPE TO BE INSTALLED AS RECOMMENDED BY MANUFACTURER.
  - AT EACH CHANGE IN MAINLINE DIRECTION INSTALL A 30" LOOP OF EXTRA WIRE.
  - BUNDLE WIRE WITH ELECTRICAL TAPE EVERY 10'.

WATERPROOF WIRE CONNECTION

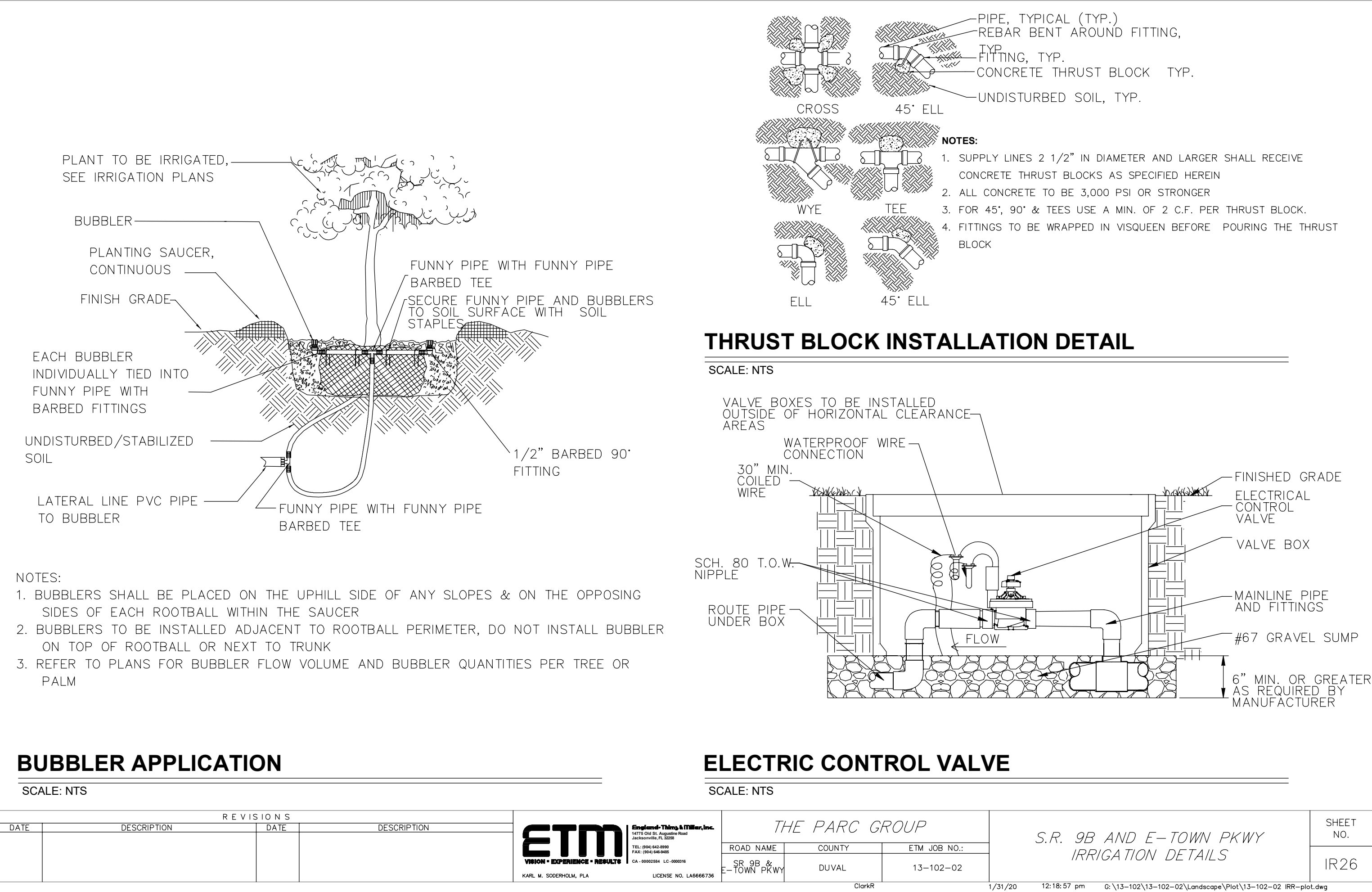
SCALE: NTS

TRENCH, PIPE, AND WIRE DETAIL

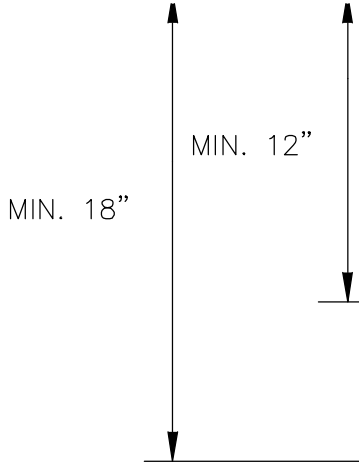
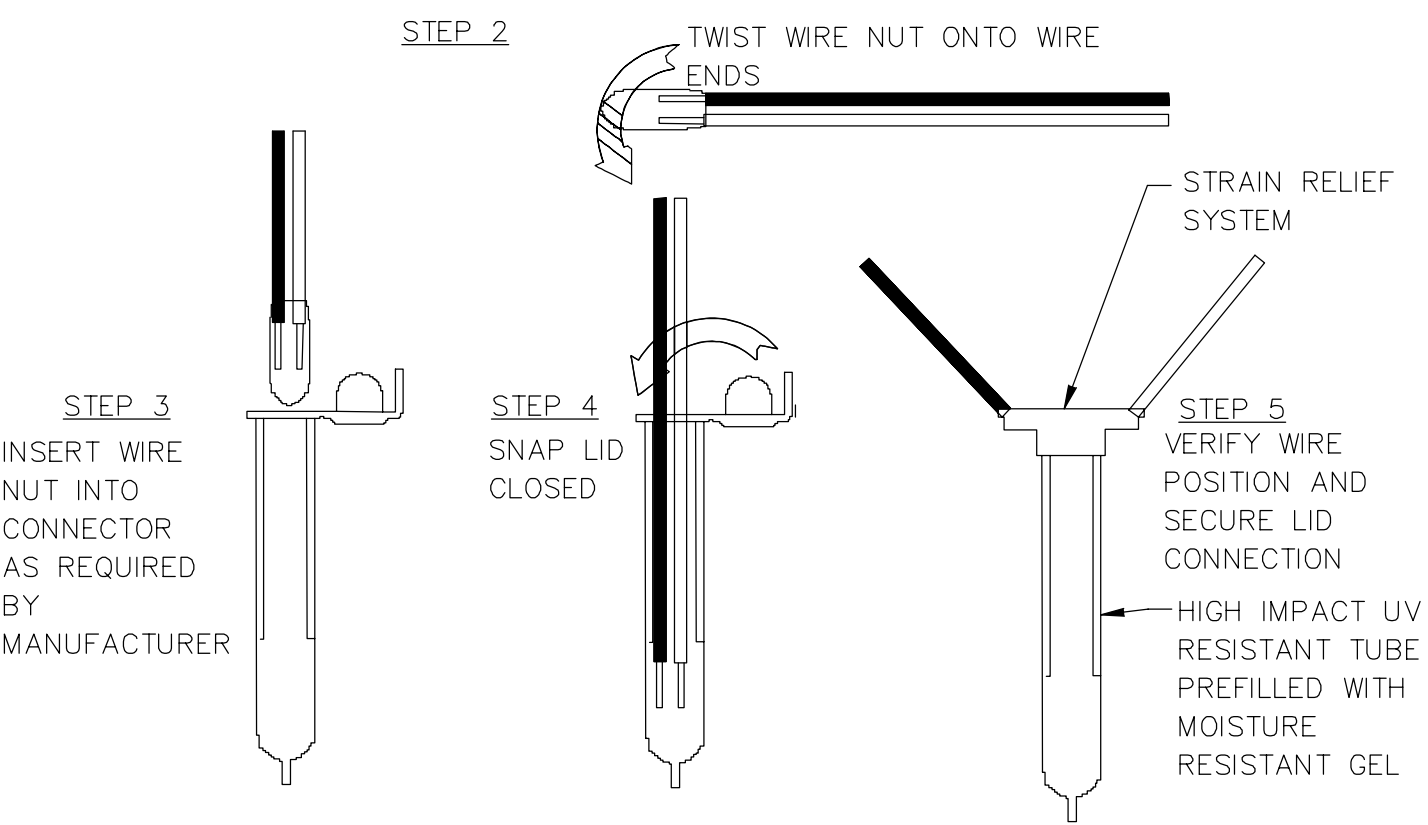
SCALE: NTS

R E V I S I O N S				<div>ETMEngland-Thing &amp; Miller, Inc.14775 Old St. Augustine RoadJacksonville, FL 32258TEL: (904) 642-8990FAX: (904) 646-9485CA - 00002584 LC - 0000316KARL M. SODERHOLM, PLA LICENSE NO. LA6666736</div>	THE PARC GROUP			S.R. 9B AND E-TOWN PKWY IRRIGATION DETAILS	SHEET NO.  IR25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	ETM JOB NO.:		
					SR 9B & E-TOWN PKWY	DUVAL	13-102-02		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.







- NOTES:
1. ALL TRENCHING
  2. NO ROCKS, BOU
  3. ALL PIPE TO BE
  4. AT EACH CHANG
  5. BUNDLE WIRE WI

**WATERPROOF WIRE CONNECTION**

SCALE: NTS

**TRENCH, PIPE, /**

SCALE: NTS