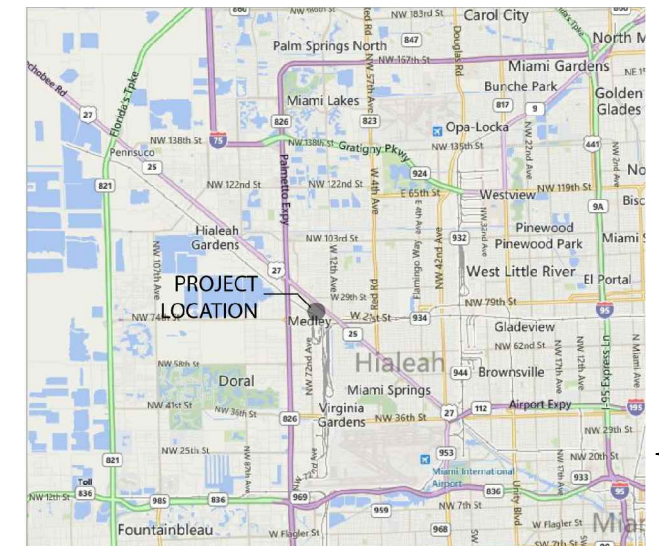


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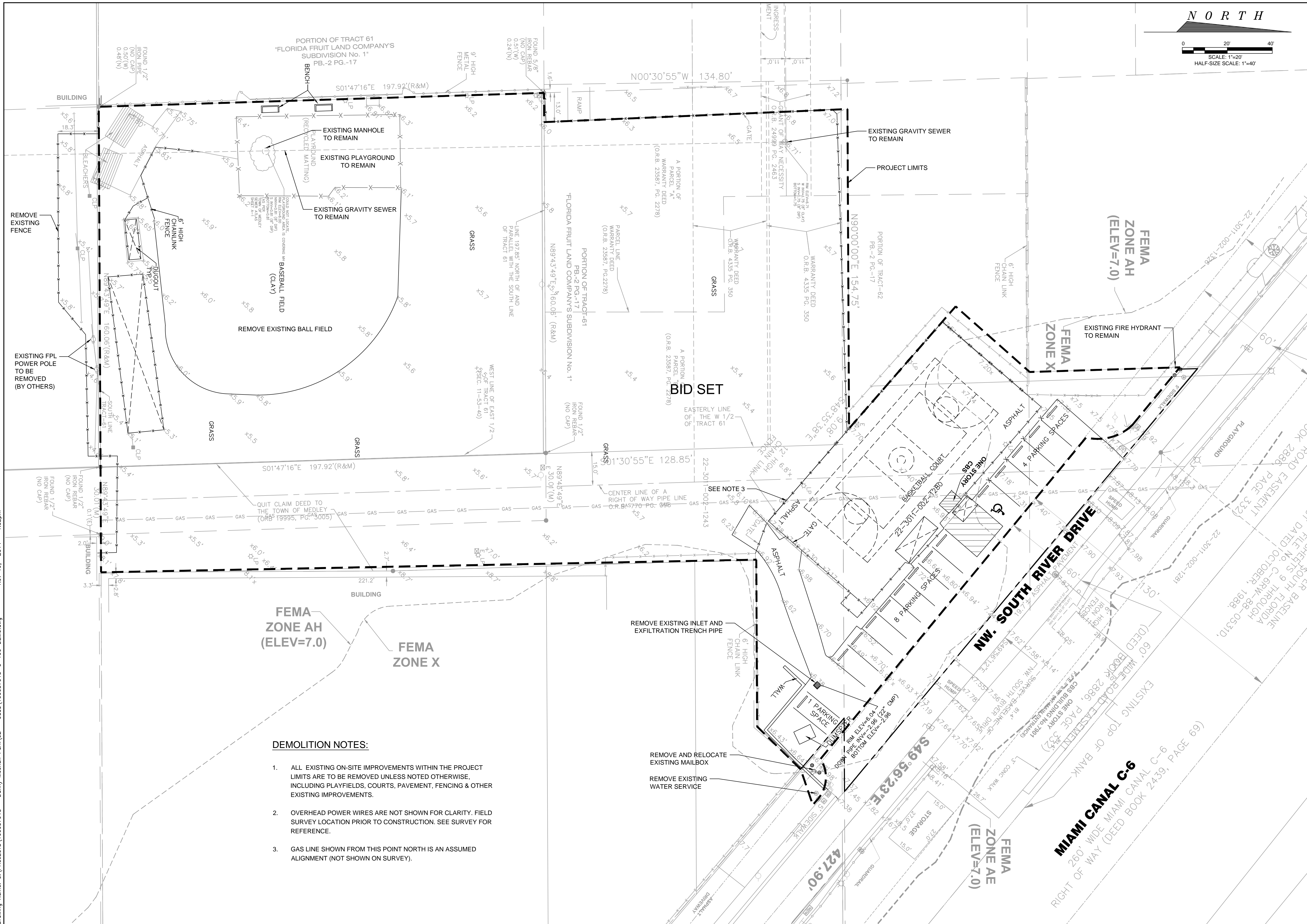
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5327 Loon Nest Court
Apollo Beach, FL 33572
ph: 813.645.8288
Reg. No. EB29566

SHEET #	SHEET NAME	60% SUBMITTAL	100% SUBMITTAL	100% RE-SUBMITTAL	ISSUE FOR BID
COVER	COVER	•	•	•	
ID001	SHEET INDEX	•	•	•	
C001	GENERAL NOTES, PAY ITEMS AND LEGEND	•	•	•	
C100	EXISTING CONDITIONS & DEMOLITION PLAN	•	•	•	
C200	SITE PLAN	•	•	•	
C300	PAVING, GRADING & DRAINAGE PLAN	•	•	•	
C400	UTILITY PLAN	•	•	•	
C500	SECTIONS		•	•	
C600	CONSTRUCTION DETAILS	•	•	•	
C601	CONSTRUCTION DETAILS	•	•	•	
C602	UTILITY DETAILS	•	•	•	
C603	UTILITY DETAILS	•	•	•	
C700	SWPPP CONTRACTORS REQUIREMENTS	•	•	•	
C701	STORMWATER POLLUTION PREVENTION PLAN	•	•	•	
C702	SWPPP DETAILS	•	•	•	
L001	GENERAL LANDSCAPE INFORMATION	•	•	•	
L101	HARDSCAPE PLAN	•	•	•	
L151	HARDSCAPE DETAILS	•	•	•	
L152	HARDSCAPE DETAILS	•	•	•	
L153	HARDSCAPE DETAILS	•	•	•	
L154	HARDSCAPE DETAILS		•	•	
L155	HARDSCAPE DETAILS			•	
L201	LANDSCAPE PLAN	•	•	•	
L251	LANDSCAPE DETAILS	•	•	•	
IR101	IRRIGATION PLAN	•	•	•	
IR151	IRRIGATION DETAILS	•	•	•	
E100	ELECTRICAL LEGEND, SCHEDULES & DETAILS	•	•	•	
E200	ELECTRICAL SITE PLAN	•	•	•	
E300	ELECTRICAL SINGLE-LINE DIAGRAM, & PANEL SCHEDULES	•	•	•	
PS100	PHOTOMETRIC LEGEND, SCHEDULES & DETAILS	•	•	•	
PS200	PHOTOMETRIC SITE PLAN - SPORTS FIELDS	•	•	•	
PS300	PHOTOMETRIC SITE PLAN - PEDESTRIAN & PARKING LOT (POLE MOUNTED OPTION)	•	•	•	

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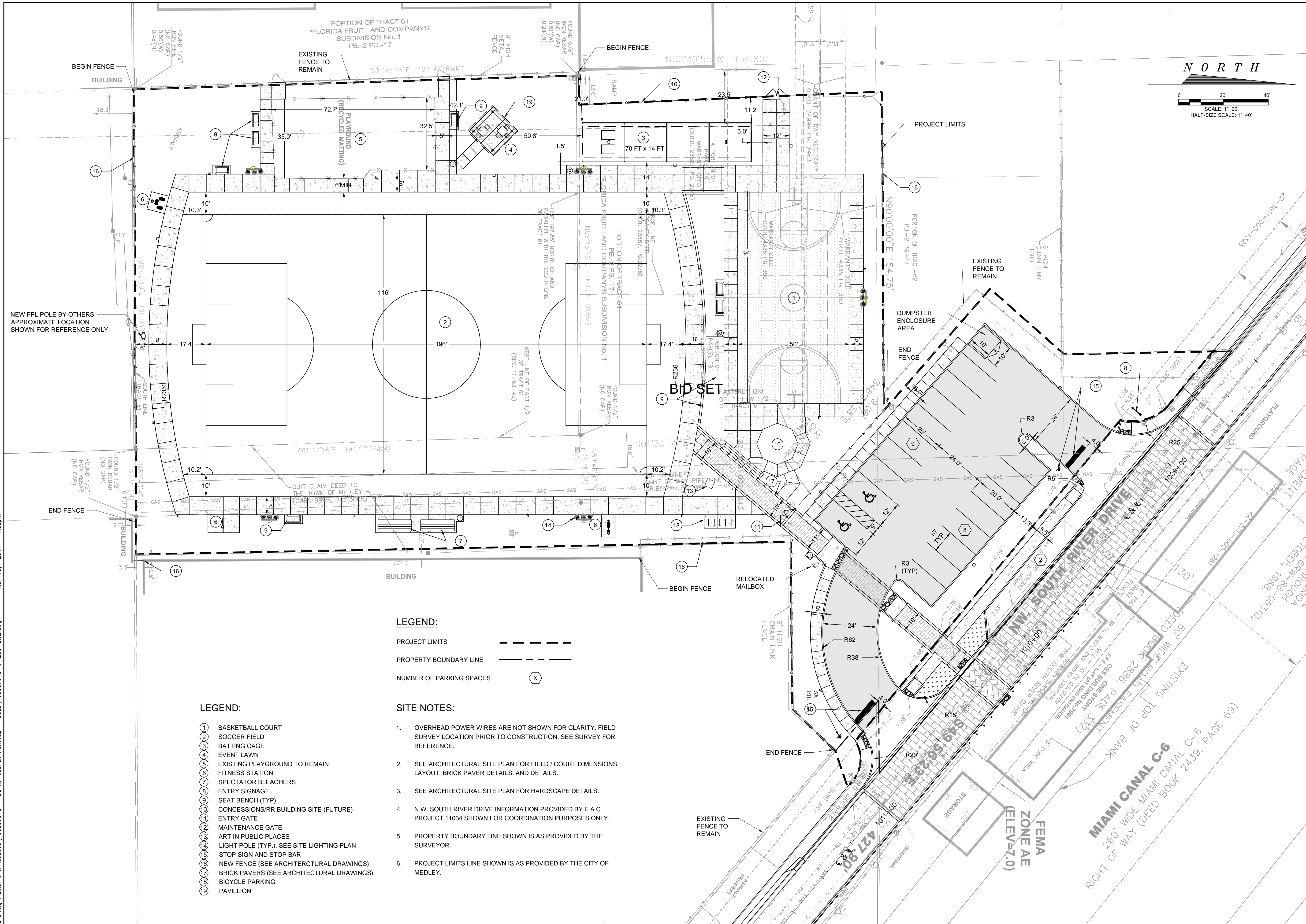
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CLIENT	TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166
PROJECT	DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS
TITLE	EXISTING CONDITIONS & DEMO PLAN

ATKINS	
CORPORATE OFFICE: 5300 W. BOY SCOUT BOULEVARD, FLORIDA 33607 FURN. CERTIFICATE OF AUTHORIZATION NO.24	LOCAL OFFICE: 482 SOUTH KELLER ROAD ORLANDO, FL 32810 TEL. 407.647.7275 FAX. 407.806.4500
www.atkinsglobal.com	
JOB NO.:	100037913
DRAWN:	
DESIGN:	
CHECKED:	
APPROVED:	
SHEET NO.	
C-100	
	REV. 




REV	DATE	DESCRIPTION
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JOHN H. WILT, PE
FLORIDA REG. NO. 53233

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CLIENT	TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166
PROJECT	DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS
TITLE	SITE PLAN

<h1>ATKINS</h1>	
CORPORATE OFFICE: 5500 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607	LOCAL OFFICE: 462 SOUTH KELLER ROAD ORLANDO, FL 32810
FIPS CERTIFICATE OF AUTHORIZATION NO.24	TEL. 407.867.7275 FAX. 407.806.4500
www.atkinsglobal.com	
JOB NO.:	100037913
DRAWN:	DRD
DESIGN:	JHW
CHECKED:	JHW
APPROVED:	JHW
SHEET NO.	C-200
	REV. 



1. OVERHEAD POWER WIRES ARE NOT SHOWN FOR CLARITY. FIELD SURVEY LOCATION PRIOR TO CONSTRUCTION. SEE SURVEY FOR REFERENCE.
2. SEE ARCHITECTURAL SITE PLAN FOR FIELD / COURT DIMENSIONS, LAYOUT, BRICK PAVER DETAILS, AND DETAILS. JOINT SPACING.
3. SEE ARCHITECTURAL SITE PLAN FOR HARDSCAPE DETAILS.
4. N.W. SOUTH RIVER DRIVE INFORMATION PROVIDED BY E.A.C. PROJECT 11034 SHOWN FOR COORDINATION PURPOSES ONLY.
5. PROJECT BOUNDARY LINE SHOWN IS AS PROVIDED BY THE SURVEYOR.
6. ALL FILL SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REQUIREMENTS.
7. SEE N.W. SOUTH RIVER DRIVE PLANS FOR GRADING INFORMATION.
8. GAS PIPELINE SHOWN EXTENDING NORTH FROM THE END OF PIPE SHOWN ON THE SURVEY IS BASED ON AN ASSUMED ALIGNMENT. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.

DRAINAGE STRUCTURE TABLE					
STRUCTURE ID	STRUCTURE TYPE TOP / BOTTOM	RIM / FLOW ELEVATION	STRUCTURE INVERTS	SUMP	LOCATION
DS-1	TYPE 'C' INLET	RIM = 7.20	SE INV. = 2.50	EL. = -1.00	N.: 550055.0183 E.: 882400.8948
DS-2	TYPE 'C' INLET	RIM = 7.20	NW INV. = 2.50	EL. = -1.00	N.: 550031.8609 E.: 882442.4106
DS-3	TYPE 'C' INLET	RIM = 5.00	S INV. = 2.50	EL. = -1.00	N.: 549896.8604 E.: 882401.1031
DS-4	TYPE 'C' INLET	RIM = 5.00	N INV. = 2.50	EL. = -1.00	N.: 549806.7232 E.: 882401.1031
DS-5	12" YARD DRAIN	RIM = 7.40	W INV. = 2.88 E INV. = 2.90	EL. = 1.90	N.: 549970.5702 E.: 882332.1745
DS-6	TYPE 'C' INLET	RIM = 7.40	SW INV. = 3.00 E INV. = 2.50 NW INV. = 3.40 S INV. = 2.50	EL. = -1.00	N.: 549970.5702 E.: 882257.1132
DS-7	TYPE 'C' INLET	RIM = 5.60	N INV. = 2.50 S INV. = 3.00	EL. = -1.00	N.: 549895.6129 E.: 882235.0989
DS-8	12" YARD DRAIN	RIM = 5.50	SE INV. = 3.40	EL. = 2.50	N.: 550020.2740 E.: 882228.4486
DS-9	TYPE 'C' INLET	RIM = 5.00	S INV. = 2.50	EL. = -1.00	N.: 549754.9877 E.: 882219.8534

LEGEND:

- ① GAS PIPELINE SHOWN EXTENDING NORTH FROM THE END OF PIPE SHOWN ON THE SURVEY IS BASED ON AN ASSUMED ALIGNMENT. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
- ② STEPS, SEE HARDSCAPE PLANS.
- ③ RAMP, SEE HARDSCAPE PLANS.
- ④ SEGMENTED BLOCK RETAINING WALL, SEE HARDSCAPE PLANS. TOP OF WALL ELEVATION = 8.00, 8.25 AT STEPS.
- ⑤ MATCH EXISTING PLAYGROUND ELEVATION.
- ⑥ 40 LF SHALL BE PERFORATED PIPE WITH FILTER SOCK.
- ⑦ 5% MAX. SLOPE.

[illegible]

TOWN OF MEDLEY
7777 NW 72ND AVENUE

**DANNY MEEHAN RECREATIONAL FIELD
IMPROVEMENTS**

PAVING, GRADING & DRAINAGE PLAN

ATKINS

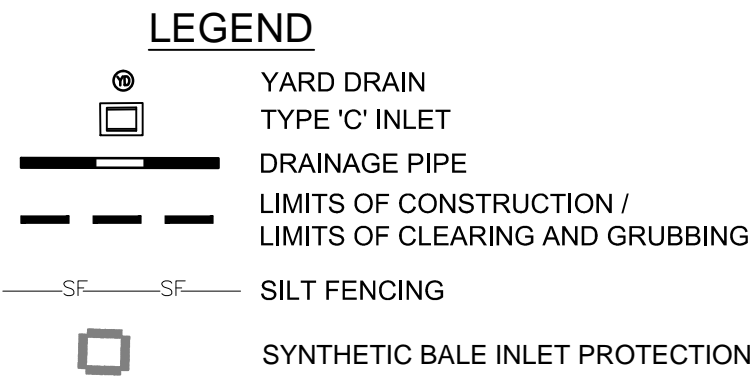
CORPORATE OFFICE:
1700 W. BOY SCOUT
BLVD TAMPA, FLORIDA
33617
FOR CERTIFICATE OF
INCORPORATION NO.24

LOCAL OFFICE:
482 SOUTH KEL
ROAD ORLANDO
32810
TEL. 407.647.72
FAX. 407.806.45


www.atkinsglobal.com

OB NO.:	100037913
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DESIGN:	JHW
CHECKED:	JHW
APPROVED:	JHW
SHEET NO.	C-300

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JOB NO.		atkins037913	
DRAWN:		DRD	
DESIGN:		JHW	
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APPROVED:		JHW	
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C-701			

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY

A PORTION OF TRACTS 18, 27, 28, 29, 30, AND 31 OF "FLORIDA FRUITLANDS COMPANY'S SUBDIVISION NO. 1", RECORDED IN PLAT BOOK 2, PAGE 17, MIAMI-DADE COUNTY RECORDS, LYING IN SECTION 5, TOWNSHIP 53 SOUTH, RANGE 40 EAST, TOWN OF MEDLEY, MIAMI-DADE COUNTY, FLORIDA

SURVEYOR'S NOTES:

SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of original field Survey was on April 02, 2014.

SECTION 2) GENERAL DESCRIPTION OF THE SURVEY AREA:

A Portion of Tracts 61 and 62 of FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION No 1 of Section 11, Township 53 South, Range 40 East as Recorded in Plat Book 2, Page 17 of the Public Records of Miami-Dade County, Florida, more particularly described as follows:

Commence at a the SW Corner of said Tract 61; thence run N 89°43'00" E a distance of 499.94 feet to the POINT OF BEGINNING of the herein described parcel of land; thence run N 01°47'16" W a distance of 197.92 feet to a point of intersection with a line that lies 197.85 feet North of and parallel with the South line of said Tract 61; thence run N 89°43'00" E along said line that lies 197.85 feet North of and parallel with the South line of Tract 61, for a distance of 12.98 feet; thence run N 02°27'42" W a distance of 134.89 feet; thence run N 89°42'50" E a distance of 141.95 feet; thence run N 48°52'48" W a distance of 72.01 feet; thence run N 41°31'51" E a distance of 44.39 feet; thence run N 01°22'26" W a distance of 74.28 feet to the Southwesterly Right-of-Way line of NW South River Drive; thence run S 50°08'31" E along the said Southwesterly Right-of-Way line of NW South River Drive a distance of 244.77 feet; thence run S 89°42'54" W a distance of 32.61 feet; thence run S 49°41'08" E a distance of 29.85 feet; thence run S 44°22'58" W a distance of 27.06 feet; thence run S 89°42'54" W a distance of 74.22 feet; thence run S 01°06'22" E a distance of 291.18 feet to a point of intersection with the South line of said Tract 61; thence run S 89°43'00" W a distance of 206.88 feet; to the POINT OF BEGINNING.

Said lands containing 86,021 Square Feet and 1.975 Acres more or less and lying and being in the Town of Medley, Miami Dade County, Florida.

Folio No.: 22-3011-002-1242, 22-3011-002-1323, 22-3011-002-1325, 22-3011-002-1243

SECTION 3) ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for this type of survey as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of 1"=40' or smaller.

SECTION 4) SOURCES OF DATA:

North arrow direction is based on an assumed Meridian.

Bearings as shown hereon are based upon the Florida State Plane Coordinates, Florida East Zone, North American Datum (NAD) of 1983 adjustment of National Geodetic Survey-Cors 1996 (NAD86/CORS96).

This property appears to be located in Flood Zones "X", "AH" (Base Flood Elevation =7.0) and "AE" (Base Flood Elevation=7.0) with a Base Flood Elevation of 7.0 Feet, as per Federal Emergency Management Agency (FEMA) Community Number 120649 (Town of Medley), Map Panels No. 12086C0281 and 12086C077 Suffix L, Map Revised Date: September 11, 2009.

Plat of "FLORIDA FRUIT LAND'S COMPANY SUBDIVISION", recorded in Plat Book 2, at Page 17, Public Records of Miami-Dade County Florida.

LEGEND:

DRWY	= DRIVEWAY	P.G.	= PAGE	①	= TELEPHONE MANHOLE
D.M.E.	= DRAINAGE MAINTENANCE EASEMENT	P.O.B.	= POINT OF BEGINNING	②	= DRAINAGE MANHOLE
C.M.E.	= CANAL MAINTENANCE EASEMENT	P	= PROPERTY LINE	③	= SANITARY SEWER MANHOLE
UE	= UTILITY EASEMENT	N.T.S.	= NOT TO SCALE	T.B.M.	= TEMPORARY BENCH MARK
A	= ARC DISTANCE	X-8-36	= ELEVATION	⚓	= PARKING METER
BLDG.	= BUILDING	BL	= BLOCK	⚓	= FLAG POLE
C.B.	= CATCH BASIN	⓪	= CLEANOUT	F.F.E.	= FINISH FLOOR ELEVATION
C.B.S.	= CONCRETE BLOCK STRUCTURE	M	= MONUMENT LINE	S.I.R.	= SET IRON REBAR
CH.	= CHORD DISTANCE	Δ	= DRAINAGE CATCH BASIN	P.O.C.	= POINT OF COMMENCEMENT
C	= CALCULATED VALUE	△	= CENTRAL ANGLE	F.N.	= FOUND NAIL
(C)	= CLEAR	⊠	= TRAFFIC SIGN	P.T.	= POINT OF TANGENCY
C	= CENTER LINE	⓪	= CATCH BASIN (INLET)	E.N.C.	= ENCROACHMENT
CONC.	= CONCRETE	⓪	= MAST ARM	F.H.	= FIRE HYDRANT
P.R.C	= POINT OF REVERSE CURVE	⓪	= CONCRETE LIGHT POLE	F.I.P.	= FOUND IRON PIPE
P.C.	= POINT OF CURVATURE	⓪	= CONCRETE POWER POLE	F.I.R.	= FOUND IRON REBAR
F.N.D.	= FOUND NAIL/DISK	⓪	= FIRE HYDRANT	L.F.E.	= LOWEST FLOOR ELEVATION
P.C.C.	= POINT OF COMPOUND CURVE	⓪	= ELECTRIC BOX	⓪	= LIGHT POLE
B	= BASELINE	⓪	= CABLE TV BOX	⓪	= MEASURED VALUE
N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM	⓪	= WATER VALVE	⓪	= RECORD VALUE
INV. EL.	= INVERT ELEVATION	⓪	= SEWER VALVE	⓪	= RIGHT OF WAY LINE
P.B.	= PLAT BOOK	⓪	= METAL LIGHT POLE	⓪	= PROPERTY LINE
P.C.P.	= PERMANENT CONTROL POINT	⓪	= WATER MANHOLE	⓪	= EASEMENT LINE
CMP	= CORRUGATED METAL PIPE	⓪		⓪	= IRON FENCE
P.I.	= POINT OF INTERSECTION	⓪		⓪	= WOOD FENCE
B/C	= BLOCK CORNER	⓪		⓪	= CHAIN LINK FENCE
R	= RADIUS	⓪		⓪	= OVERHEAD UTILITY LINE
RAD.	= RADIAL	⓪		⓪	
RES.	= RESIDENCE	⓪		⓪	
R/W	= RIGHT OF WAY	⓪		⓪	
SEC.	= SECTION	⓪		⓪	
S.I.P.	= SET IRON PIPE	⓪		⓪	
T.O.P.	= TOP OF PIPE	⓪		⓪	
SWK	= SIDEWALK	⓪		⓪	

BID SET

Plat of "MEDLEY GARDEN HEIGHTS", recorded in Plat Book 59, at Page 79, Public Records of Miami-Dade County Florida.

Centerline of Miami Canal C-6 per Baseline Control Survey prepared for SOUTH FLORIDA WATER MANAGEMENT DISTRICT, sheets 9 through 12 of 21 sheets in total, File No. C-6RW-88-0531D, Drawing NO. C-6-5, last dated OCTOBER, 1988.

All elevations shown hereon are based on the National Geodetic Vertical Datum of 1929, as per the following Miami-Dade County Benchmarks:

1. Benchmark: N-911. Elevation: + 13.80 feet.
Located at Dade County Brass Disk in sidewalk at NW corner of bridge over Miami River Canal C-6 (NW 72 Ave), Miami-Dade County, Florida.

2. Benchmark: H-335-1. Elevation: + 13.32 feet.
Located at Dade County Brass Bar in SE corner of bridge over Miami River Canal C-6
NW. 67 Avenue - Just East of and N Royal Poinciana Blvd - 15 feet North of Centerline, Miami-Dade County, Florida.

For Horizontal Control:

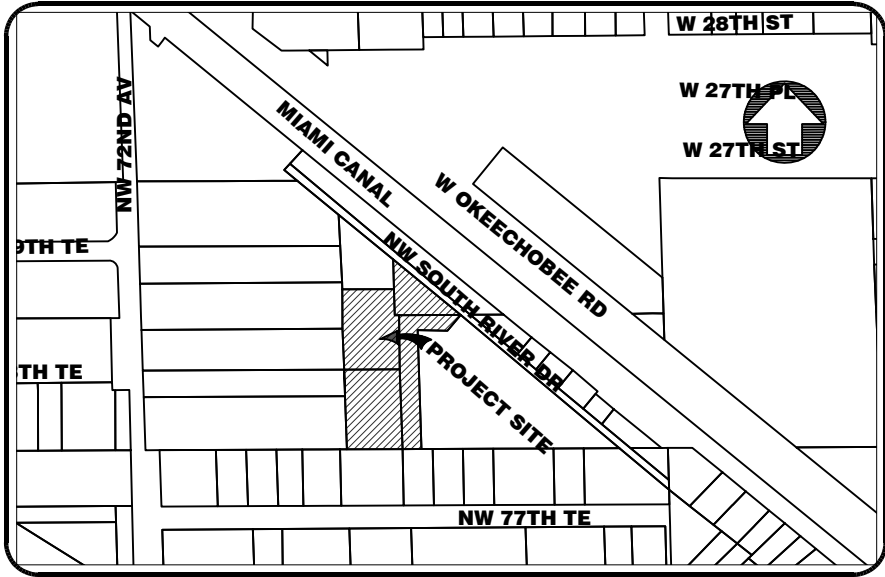
The following Horizontal Control Data were obtained from the Florida Permanent Network Web Site (a Florida Reference Station Service Provider, www.myfloridagps.com).

Florida Permanent Network Control Stations:

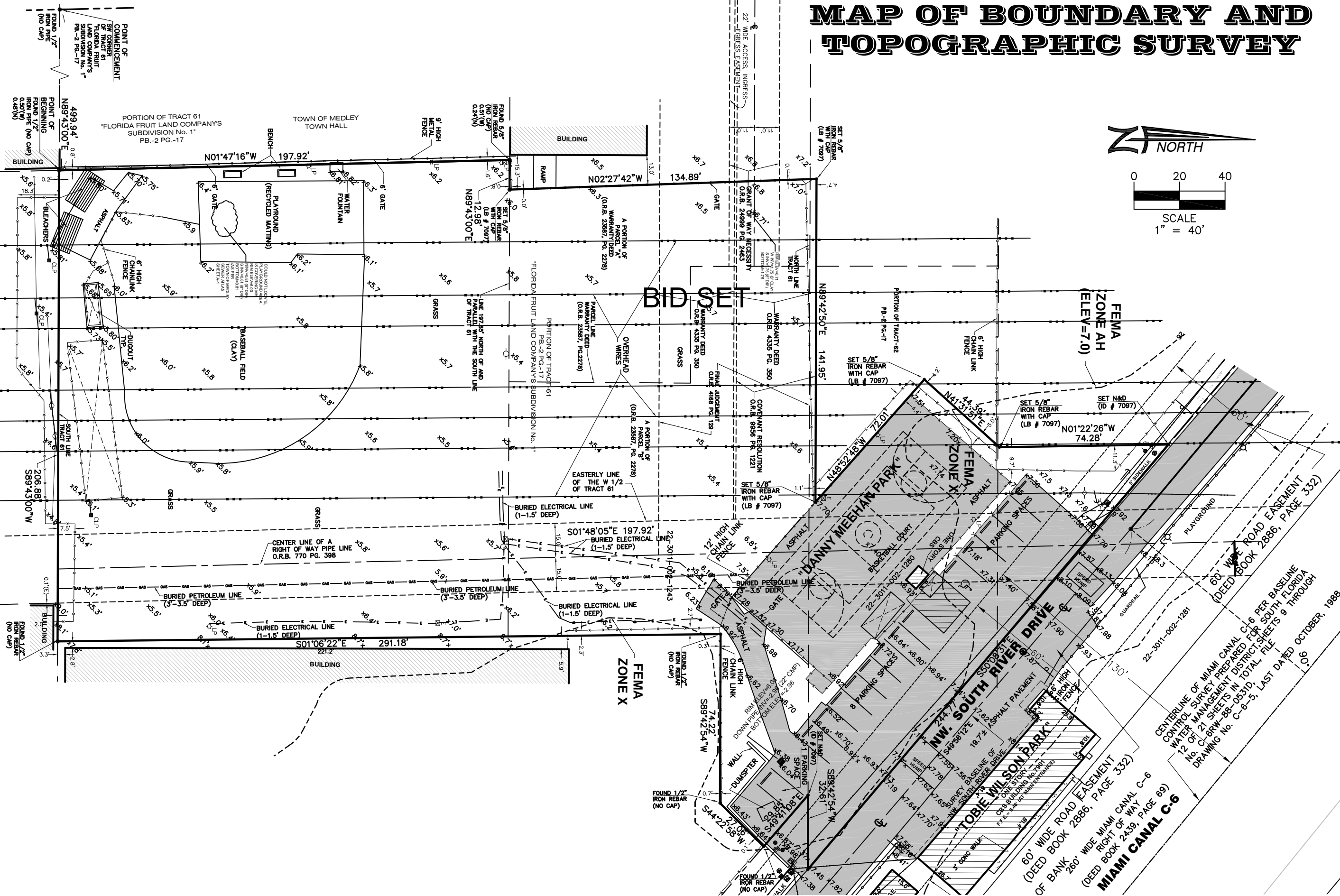
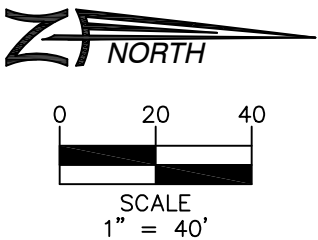
Name: MIAMI 6 (MIAMI)
Code: MIAMI
Geographic Coordinates:
Latitude: 25°30' 03.79601" N
Longitude: 80°33' 00.43281" W
State Plane Coordinates:
Northing: 509,427.49 US Feet
Easting: 931,640.11 US Feet
Creation Date: 08-02-2010
Receiver Type: TRIMBLE NETRS
Satellite System: GPS Only
Coverage Radius: 30 km

Name: MIAMI 3 (RICHMOND)
Code: RMND
Geographic Coordinates:
Latitude: 25°36' 49.58922" N
Longitude: 80°23' 02.14116" W
State Plane Coordinates:
Northing: 465,790.41 US Feet
Easting: 859,175.16 US Feet
Creation Date: 08-02-2010
Receiver Type: LEICA GRX1200PRO
Satellite System: GPS Only
Coverage Radius: 30 km

SECTION 5 - TOWNSHIP 53 SOUTH - RANGE 40 EAST



MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY

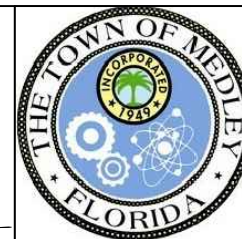
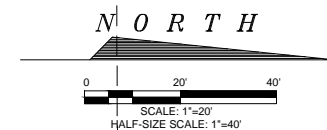


HADONNE
CORP.
PROFESSIONAL LAND SURVEYORS AND MAPPERS
8700 West Flagler Street, Suite 420, Miami, Florida, 33174
phone: 305.266.1188 fax: 305.207.6845 www.hadonne.com

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
for
TOWN OF MEDLEY
of
DANNY MEEHAN PARK, TOWN OF MEDLEY, FL, 33166

REVISIONS	
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Job No:	09041
Drawn:	MJM/MG
Checked:	RI
Scale:	AS SHOWN
Field Book:	88-24

NOTE:
1) CONTRACTOR TO ABUT SIDEWALK
FLUSH TO PERIMETER OF EXISTING
PLAYGROUND PAVING AS SHOWN. THE
ABUTMENT SHOULD PRESENT A
CLEAN, FINISHED EDGE.



DATE	DESCRIPTION
------	-------------

0477 0444-47 0044

THOMAS L. JOHNSON, RLA
EL OBIDA REG NO 6666742

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TOWN OF MEDLEY
7777 NW 72ND AVENUE
MEDLEY, FL 33166

DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS

SIDWALK JOINT LAYOUT & HARDSCAPE PLAN

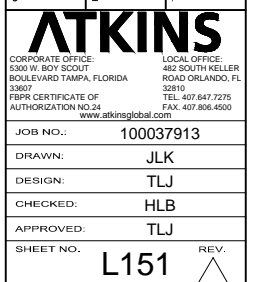
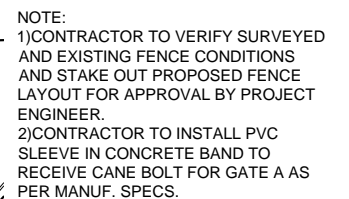
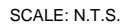
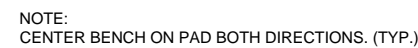
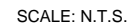
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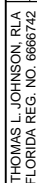
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BOULEVARD TAMPA, FLORIDA
33607
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FAX. 407.806.4500

JOB NO.:	100037913
DRAWN:	JLK
DESIGN:	TLJ
CHECKED:	HLB
APPROVED:	TLJ
SHEET NO.	L101

User Name: kees1810
Drawing Name: \\Susora1101\dp\$\Projects\Medley\Danny Meehan\CADD\L1101.dwg
Nov 19, 2014 - 11:00am



[illegible]

TOWN OF MEDLEY
7777 NW 72ND AVENUE

DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS

HARDSCAPE DETAILS

ATKINS

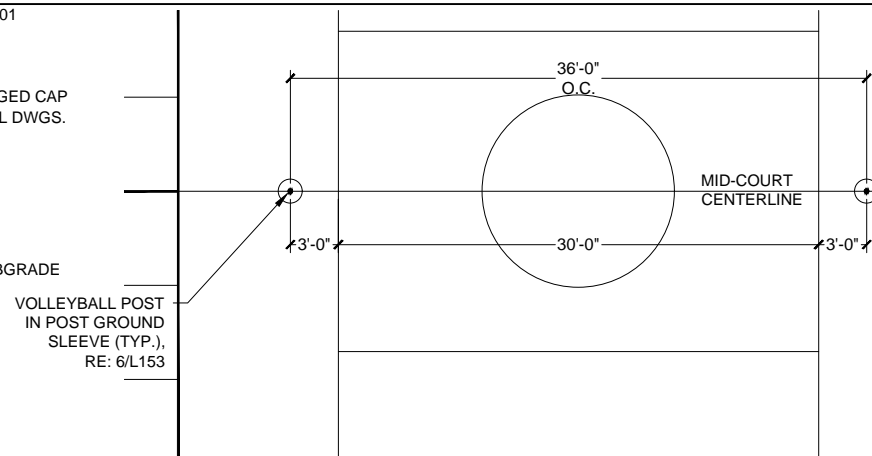
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JOB NO.:	100037913
DRAWN:	JLK
DESIGN:	TLJ
CHECKED:	HLB
APPROVED:	TLJ
SHEET NO.	152

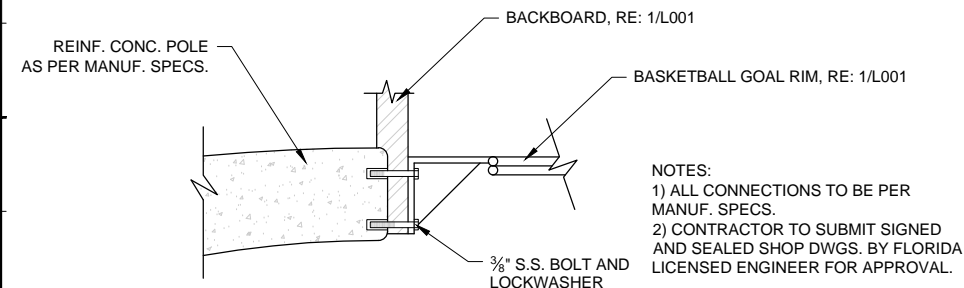
A technical cross-sectional diagram of a volleyball post foundation. The central element is a vertical "VOLLEYBALL POST, RE: 1/L001". It is encased in a concrete "POST GROUND SLEEVE HINGED CAP EXPANSION JOINT, SEE CIVIL DWGS.". This sleeve sits on a circular base labeled "1'-6\" DIA.". The entire assembly is embedded in a "PREPARED SUBGRADE". On either side of the sleeve, there are horizontal sections of material labeled "PAVING C". To the left of the paving, there is a dimensioned area of "2'-0\". A note at the top left states: "GIVE FINAL INSTALLATION AS PER [unclear] CS. FOOTING FINISH SHALL MATCH : 1/L001".

6 VOLLEYBALL REMOVABLE POST DETAIL
SCALE: N.T.S.



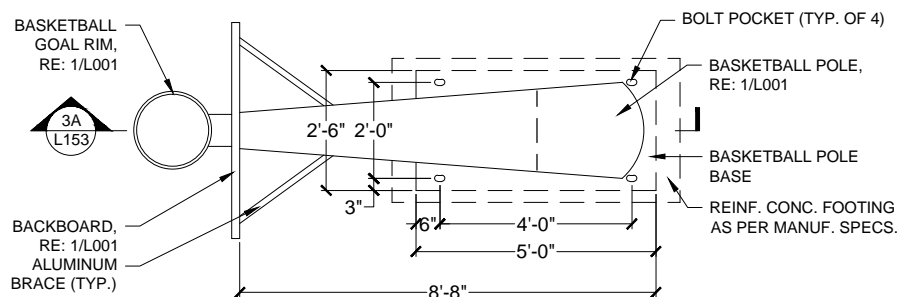
5 VOLLEYBALL POST LAYOUT PLAN

SCALE: N.T.S.

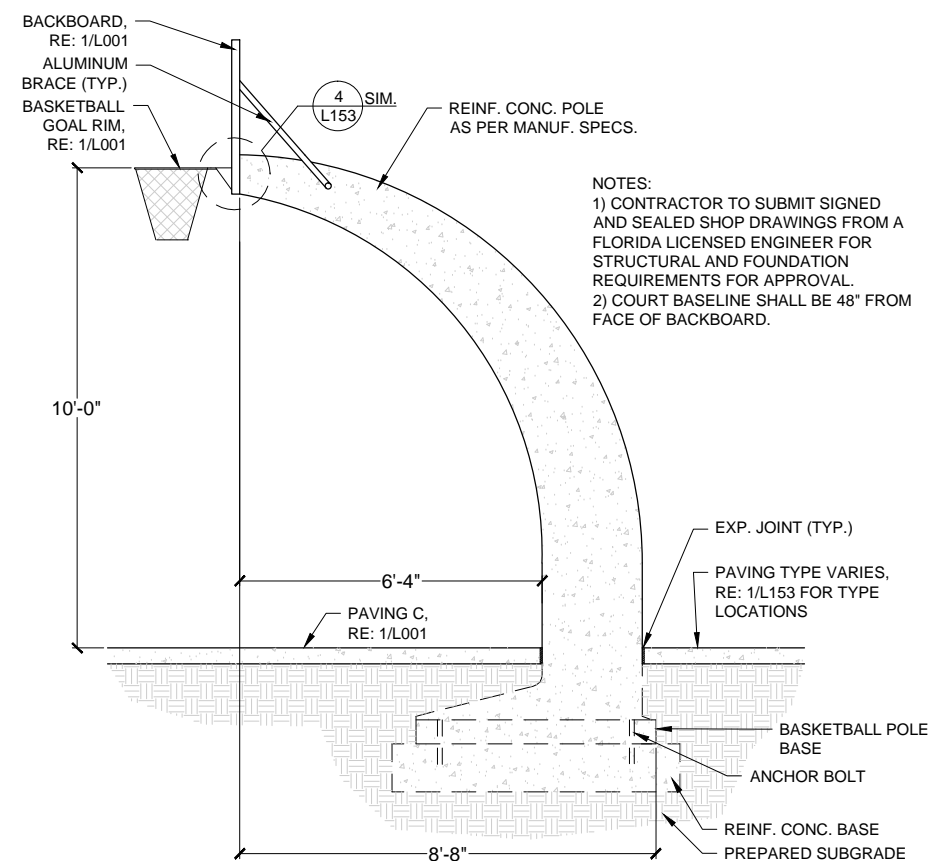


4 BASKETBALL GOAL CONNECTION DETAIL

SCALE: N.T.S.



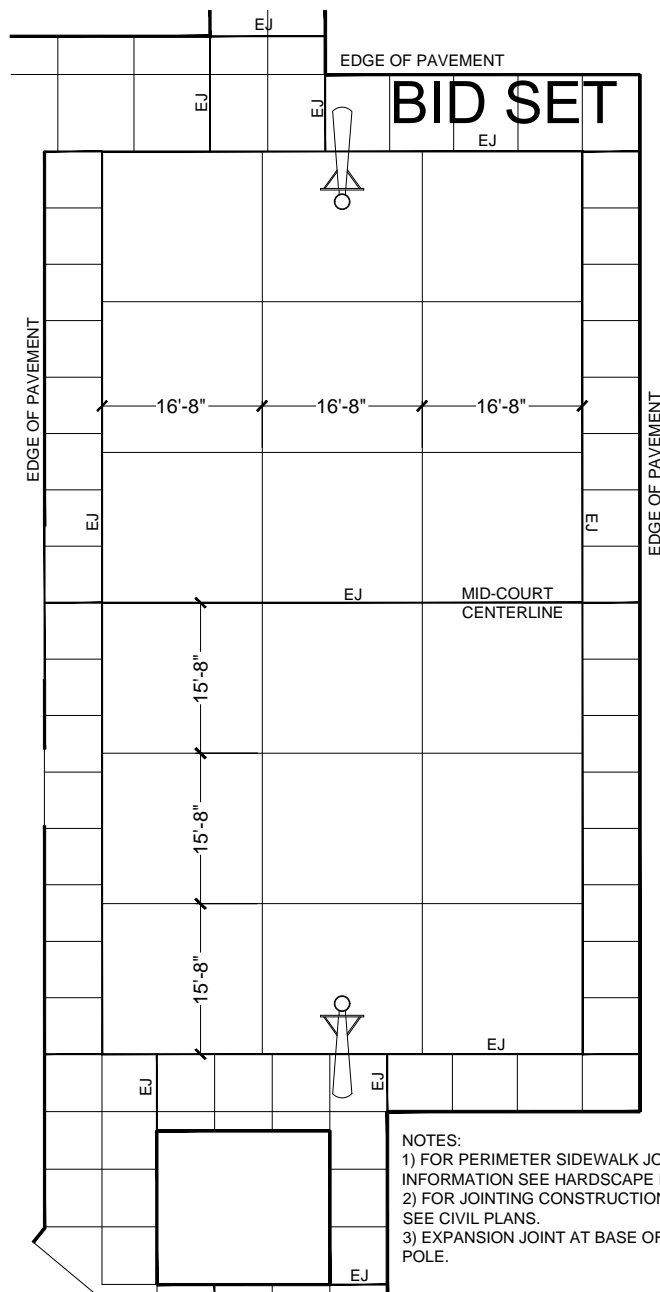
B. PLAN



A. SECTION

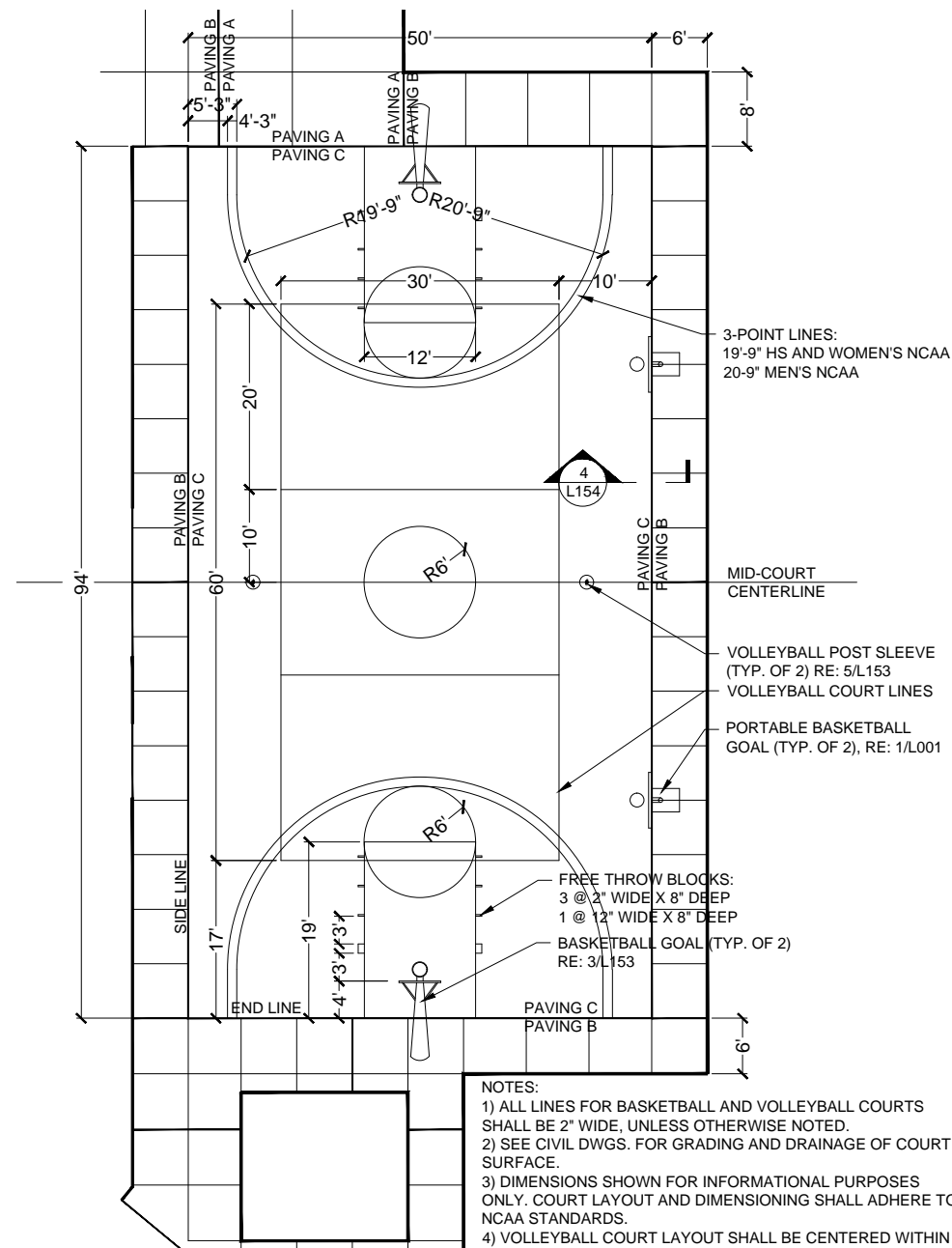
3 BASKETBALL GOAL DETAIL

SCALE: N.T.S.



2 BASKETBALL JOINTING PLAN

SCALE: N.T.S.



1 BASKETBALL ENLARGEMENT PLAN

[illegible]

THOMAS L. JOHNSON, RLA
FLORIDA REG NO 6666742

DATE: October 17, 2014

[illegible]

TOWN OF MEDLEY
7777 NW 72ND AVENUE
MEDLEY, FL 33166

DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS

HARDSCAPE DETAILS

CLIENT

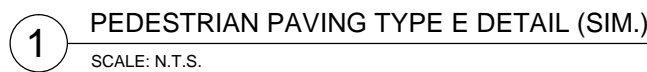
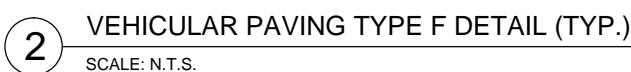
TITLE	DATE	BY	REMARKS
1. The first part of the report is a general introduction to the project.	10/10/2023	John Doe	Completed
2. The second part of the report is a detailed description of the methodology.	10/10/2023	John Doe	Completed
3. The third part of the report is a detailed description of the results.	10/10/2023	John Doe	Completed
4. The fourth part of the report is a detailed description of the conclusions.	10/10/2023	John Doe	Completed
5. The fifth part of the report is a detailed description of the recommendations.	10/10/2023	John Doe	Completed

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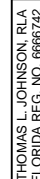
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JOB NO.:	100037913
DRAWN:	JLK
DESIGN:	TLJ
CHECKED:	HLB
APPROVED:	TLJ
SHEET NO.	REV.



NOTES:
1) FOR PAVING PATTERN SEE PLANS
2) FOR INFORMATION ON PAVING TYPES AND FINISHES,
RE: 1/L001



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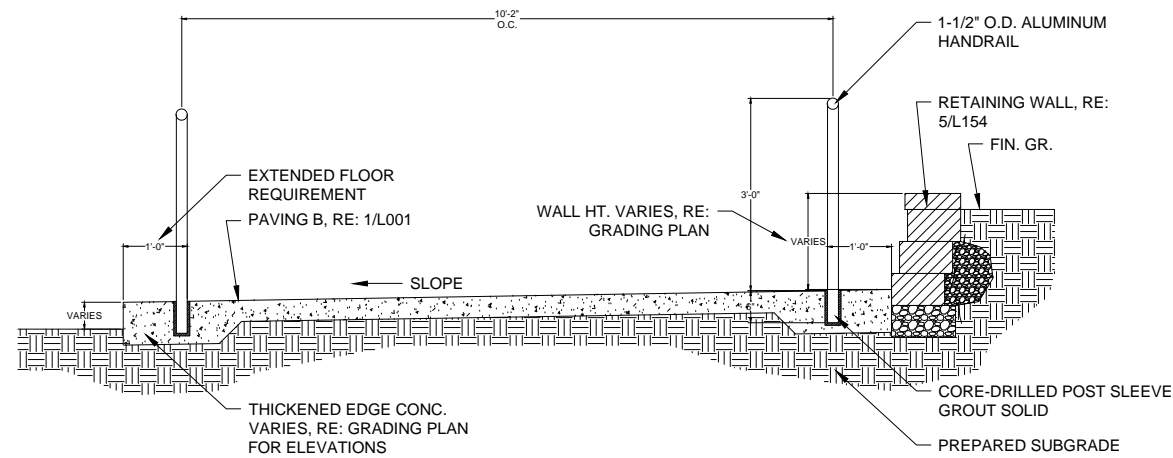
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JOB NO.:	100037913
DRAWN:	JLK
DESIGN:	TLJ
CHECKED:	HLB
APPROVED:	TLJ
SHEET NO.	L154

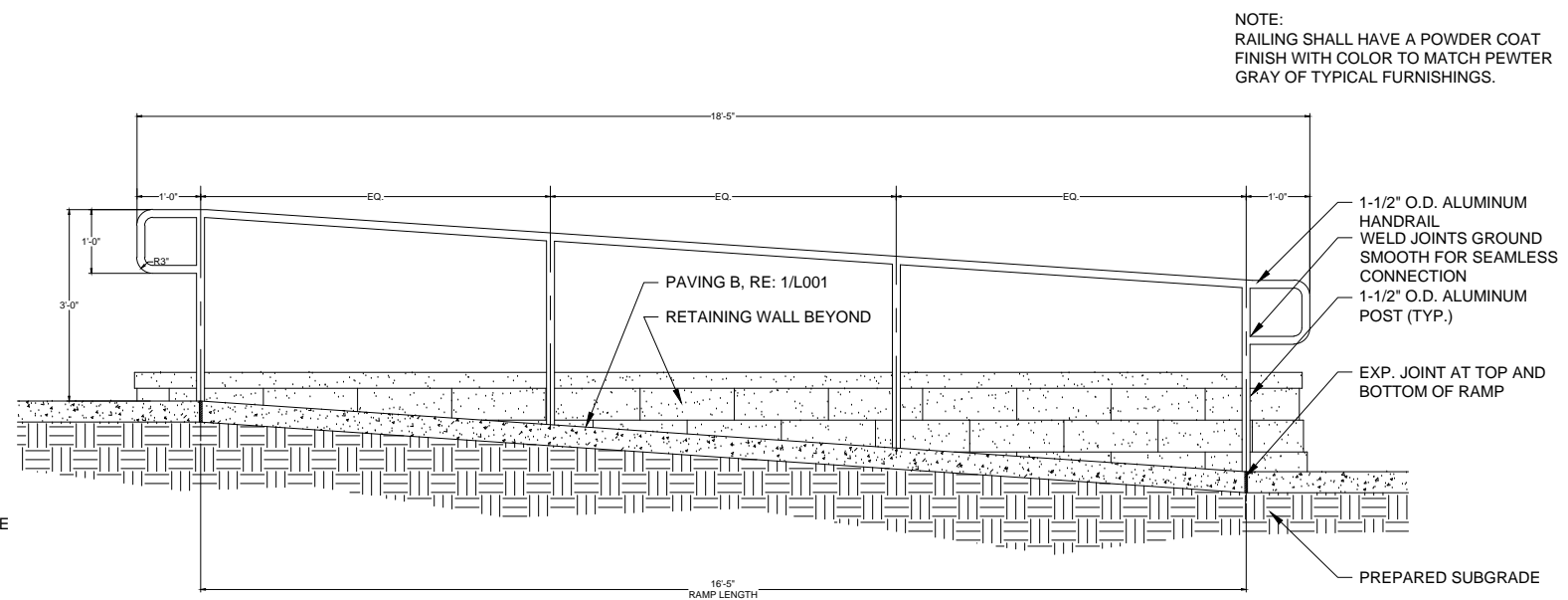
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BID SET



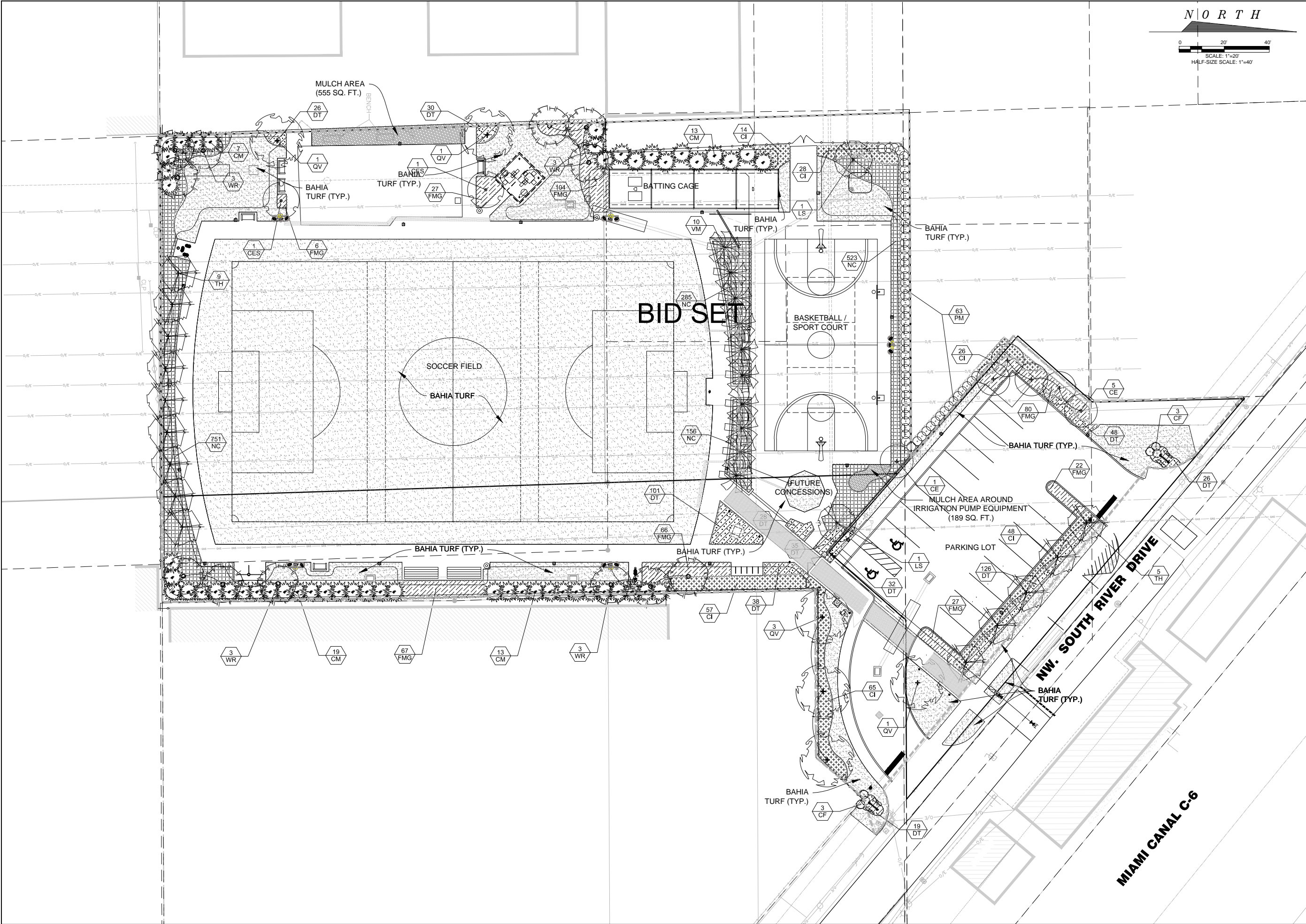
2 PEDESTRIAN RAMP CROSS SECTION


SCALE: N.T.S.



1 PEDESTRIAN RAMP SECTION ELEVATION
SCALE: N.T.S.

[illegible]





THE TOWN OF MEDLEY
FLORIDA

REV.	DATE	DESCRIPTION
1	10/17/2014	ORIGINAL ISSUED DATE

THOMAS L. JOHNSON, R.L.A.
FLORIDA REG. NO. 6666742

NOTICE: The Town of Medley, Florida, has selected the design services of Atkins for the design of the Danny Meehan Recreational Field Improvements. The design services include the preparation of a landscape plan, site plan, and construction documents. The design services shall be completed within the time frame specified in the contract. The design services shall be completed within the time frame specified in the contract. The design services shall be completed within the time frame specified in the contract.

CLIENT: TOWN OF MEDLEY
7777 NW 72ND AVENUE
MEDLEY, FL 33166

PROJECT: DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS

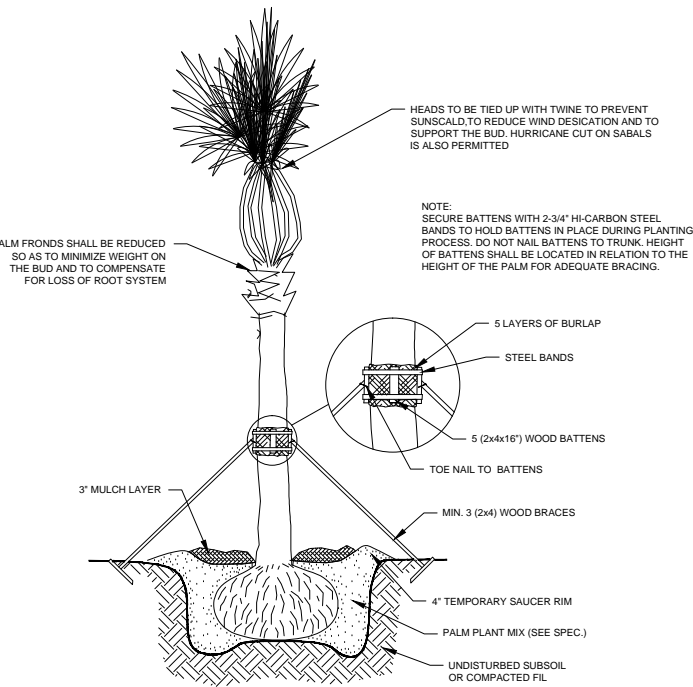
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ATKINS

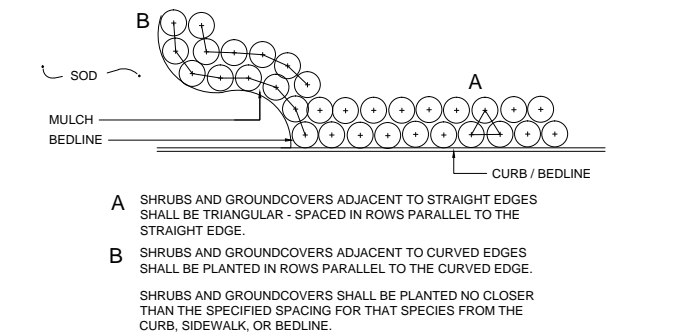
CORPORATE OFFICE: 5300 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607
FPR CERTIFICATE OF AUTHORIZATION NO. 34
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TEL: 407.647.7275
FAX: 407.866.4900

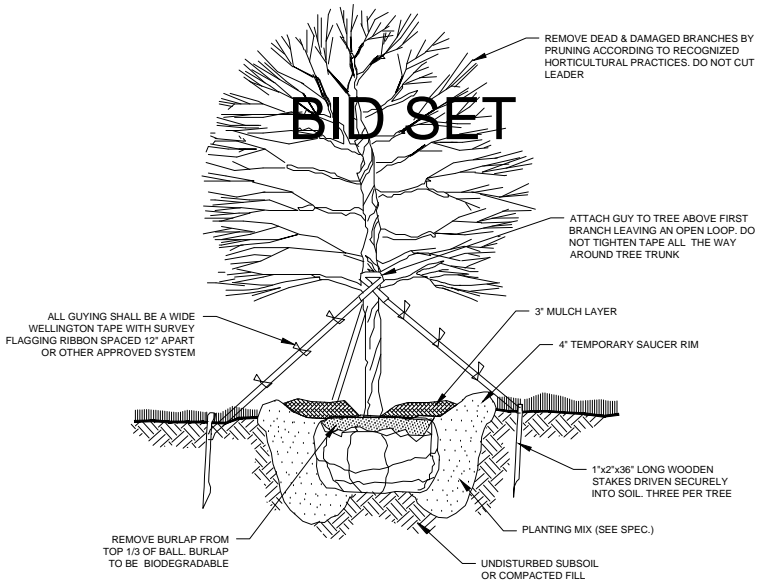
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DESIGN: TLJ
CHECKED: HLB
APPROVED: TLJ
SHEET NO. L201



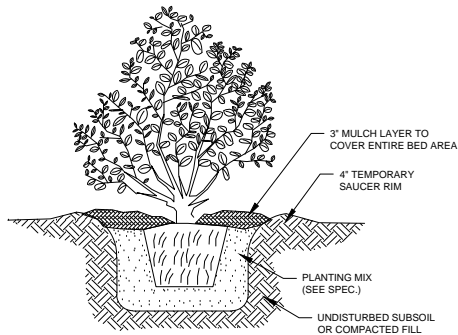
6 TYPICAL SINGLE TRUNK PALM PLANTING
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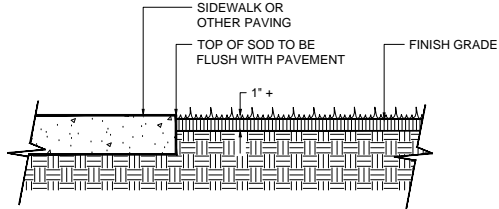
3 TYPICAL SHRUB & GROUNDCOVER SPACING
SCALE: N.T.S.



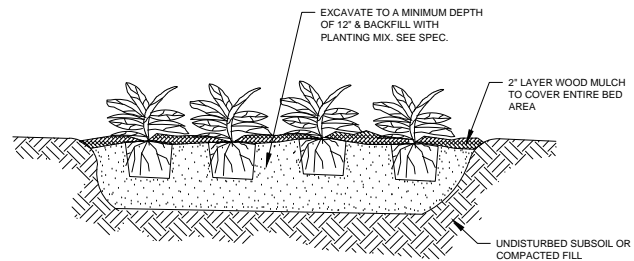
5 TYPICAL TREE PLANTING
SCALE: N.T.S.




2 TYPICAL SHRUB PLANTING
SCALE: N.T.S.



4 SOD PLACEMENT DETAIL
SCALE: N.T.S.



1 TYPICAL GROUNDCOVER PLANTING
SCALE: N.T.S.



THOMAS L. JOHNSON, R.L.A.
FLORIDA REG. NO. 6666742

DATE: October 17, 2014

REV. / BY

DESCRIPTION

ORIGINAL ISSUED DATE :

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CLIENT
TOWN OF MEDLEY
7777 NW 72ND AVENUE
MEDLEY, FL 33166

PROJECT
DANNY MEEHAN RECREATIONAL FIELD
IMPROVEMENTS

TITLE
LANDSCAPE NOTES & DETAILS

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JOB NO.: 100037913


DRAWN: JLK

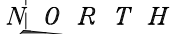
DESIGN: TLJ

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APPROVED: TLJ

SHEET NO. L251

REV. 

DESCRIPTIONDATE: October 17, 2014

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DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS

IRRIGATION PLAN

ATKINS

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32810
TEL. 407.647.7272
FAX. 407.806.4522

OB NO.: 100037913

DESIGN: TLJ

CHECKED: HLB

APPROVED: TLJ

SHEET NO. REV.

IR101

$$\wedge$$

7 ROTARY & BUBBLER NOZZLE
ON 6" SPRAY BODY INSTALLATION
SCALE: N.T.S.

6 ROTARY NOZZLE ON 12" SPRAY BODY INSTALLATION

SCALE: N.T.S.

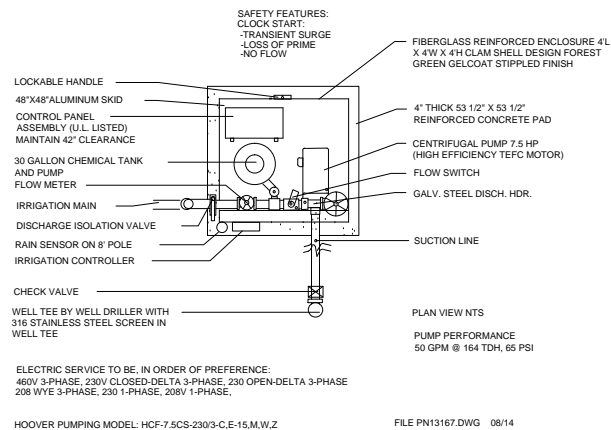
5 TRENCHING DETAIL
SCALE: N.T.S.

4 FIELD ROTOR INSTALLATION

SCALE: N.T.S.

NOTE:
SUCTION PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FROM THE PUMP TO THE WELL TEE. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. MAXIMUM VERTICAL LIFT FROM WELL PUMPING LEVEL TO PUMP PAD ELEVATION IS 10'. PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEMS

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"
 — PRESSURE CONTROL VALVE
 X HUNTER PRO C IRRIGATION CONTROLLER 15 STATIONS WITH RAIN SENSOR ON 8' POLE
 — PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS



TOWN OF MEDLEY DANNY MEEHAN PARK
CENTRIFUGAL PUMP SYSTEM DETAIL
FIBERGLASS ENCLOSED SINGLE WELL SUCTION
CLOCK START

3 QUICK COUPLER VALVE INSTALLATION

1 IRRIGATION VALVE INSTALLATION




























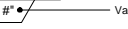








IRRIGATION NOTES :

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE. CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO EXCAVATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR THE PUMP REQUIRED FOR THE PROPOSED IRRIGATION SYSTEM. THE FINALIZED PUMP LOCATION SHALL BE IN CLOSE PROXIMITY TO THE LOCATION PROVIDED IN THE IRRIGATION PLANS AND SHALL BE APPROVED BY THE MAINTAINING AGENCY PRIOR TO CONSTRUCTION.
9. ZONE LINES ARE DESIGNED TO PERFORM AT 30 PSI AT THE LAST HEAD FOR BUBBLER AND SPRAY ZONES AND 60 PSI AT THE LAST HEAD FOR ROTOR ZONES. APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN THE PLANS.
10. ZONE LINE PIPING SHALL BE SCHEDULE 40 PVC PLASTIC PIPE OR APPROVED EQUAL.
11. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 80 PVC INSTALLED 18" BELOW THE FINISHED GRADE OF MEDIANS AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
12. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 80 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE PIPE TO BE SET IN IT.
13. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.

14. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING.
15. INCLUDE INSTALLATION OF 'TRACE WIRE' ALONG THE MAINLINE.
16. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
17. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
18. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF PRESSURE OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
19. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
20. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
21. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
 - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
 - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
 - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
22. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FIELD. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
23. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

BID SET^{9.}

IRRIGATION SCHEDULE

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL</u>	<u>QTY</u>	<u>ARC</u>	<u>PSI</u>	<u>GPM</u>	<u>RADIUS</u>	<u>SYMBOL</u>	<u>MANUFACTURER/MODEL</u>	<u>QTY</u>
	Hunter MP1000 PROS-06-PRS40-CV	3	210-270	40		14"		Hunter ICV-G 1"	1
	Hunter MP1000 PROS-06-PRS40-CV	29	45-210	40		14"		Hunter ICV-G 1-1/2"	5
	Hunter MP1000 PROS-06-PRS40-CV	1	360	40	0.75	14"		Hunter HQ-44LRC-AW 1"	5
	Hunter MP2000 PROS-06-PRS40-CV	9	45-210	40		19"		Hoover Irrigation	1
	Hunter MP3000 PROS-06-PRS40-CV	4	45-210	40		30"		Point of Connection 3"	1
	Hunter MP800SR PROS-06-PRS40-CV	29	90-210	40		10"		Irrigation Lateral Line: PVC Schedule 40 3/4"	1,555 l.f.
	Hunter MP Corner PROS-06-PRS40-CV	1	Adj	40		13"		Irrigation Lateral Line: PVC Schedule 40 1"	493.5 l.f.
	Hunter MP Strip PROS-06-PRS40-CV	4	LCS	40	0.22	5'x15'		Irrigation Lateral Line: PVC Schedule 40 1 1/4"	545.8 l.f.
	Hunter MP Strip PROS-06-PRS40-CV	3	RCS	40	0.22	5'x15'		Irrigation Lateral Line: PVC Schedule 40 1 1/2"	55.1 l.f.
	Hunter MP Strip PROS-06-PRS40-CV	4	SST	40	0.44	5'x30'		Irrigation Lateral Line: PVC Schedule 40 2"	73.7 l.f.
	Hunter MP1000 PROS-12-PRS40-CV	2	210-270	40		14"		Irrigation Mainline: PVC Schedule 40 2"	1,121 l.f.
	Hunter MP1000 PROS-12-PRS40-CV	17	45-210	40		14"		Pipe Sleeve: PVC Schedule 80 2"	43.3 l.f.
	Hunter MP1000 PROS-12-PRS40-CV	1	360	40	0.75	14"		Pipe Sleeve: PVC Schedule 80 4"	53.9 l.f.
	Hunter MP2000 PROS-12-PRS40-CV	1	210-270	40		19"			
	Hunter MP2000 PROS-12-PRS40-CV	2	45-210	40		19"			
	Hunter MP2000 PROS-12-PRS40-CV	2	360	40	1.47	19"			
	Hunter MP3000 PROS-12-PRS40-CV	1	45-210	40		30"			
	Hunter MP800SR PROS-12-PRS40-CV	27	90-210	40		10"			
	Hunter MP Strip PROS-12-PRS40-CV	1	SST	40	0.44	5'x30'			
	Rain Bird 5 Series Stream on Hunter PROS-06-PRS30	12	360	30	1.50	5'			
	Rain Bird 5 Series Stream on Hunter PROS-06-PRS30	82	180	30	1.00	5'			
	Rain Bird 5 Series Stream on Hunter PROS-06-PRS30	26	90	30	0.50	5'			

THE QUANTITIES SHOWN ARE APPROXIMATE. SOME QUANTITIES WILL VARY BY METHOD OF INSTALLATION. ALL METHODOLOGY WILL BE WITH THE APPROVAL OF THE ENGINEER.

THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND FPL SERVICE CONNECTION.



REV	DATE	DESCRIPTION
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7		
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THOMAS L. JOHNSON, RLA
FLORIDA REG. NO. 6666742

DATE: October 17, 2014


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CLIENT	TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166
PROJECT	DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS
TITLE	IRRIGATION NOTES & DETAILS

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FAX. 407.806.4500

JOB NO.:	100037913	
DRAWN:	JLK	
DESIGN:	TLJ	
CHECKED:	HLB	
APPROVED:	TLJ	
SHEET NO.	IR151	REV. 

ELECTRICAL CONTRACTORS ARE ADVISED THAT THIS PROJECT SHALL BE BID INTO (2) TWO SEPARATE CATEGORIES AS FOLLOWS:

- OWNER ELECTRICAL CONTRACTORS (OEC) SCOPE OF WORK:

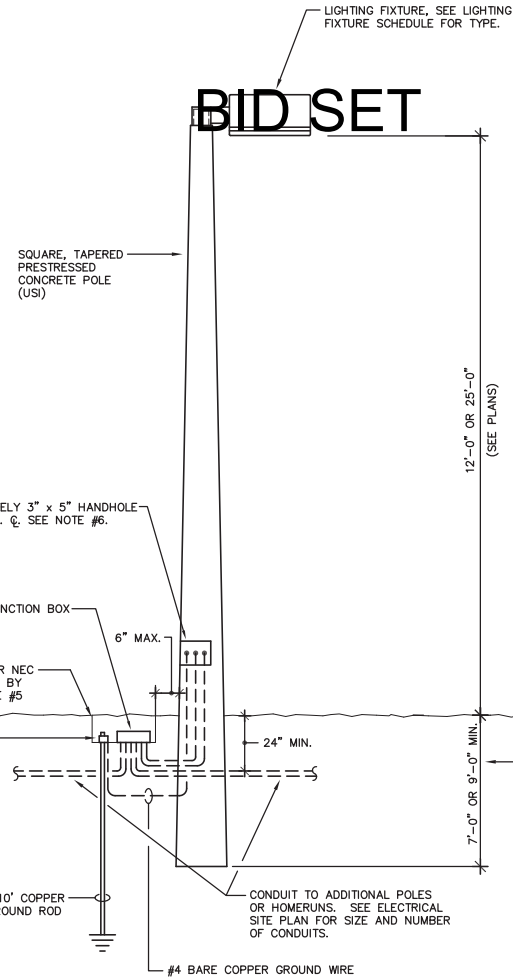
- SITE ELECTRICAL CONTRACTOR (SEC) SCOPE OF WORK:

- THE FOLLOWING IS EXCLUDED AND SHALL BE PROVIDED BY OTHER DISCIPLINES AS DETERMINED BY THE GENERAL CONTRACTOR:

- | LIGHTING FIXTURE SCHEDULE | | | | REMARKS | INPUT WATTS |
|---------------------------|-----------------------------------|-------|---------------------|--|-------------|
| | MOUNTING | VOLT. | LAMP | | |
| COLOR | POLE MOUNTED
25'-0" AFG | 277 | LED WITH
FIXTURE | 4000K, 70CRI, LED POLE MOUNTED
FIXTURE, VERIFY FINISH. TYPE III
DISTRIBUTION. SEE DETAIL THIS SHEET. | 107 |
| ON - | DIRECT BURIAL | --- | --- | 34" SQUARE TAPERED DIRECT BURIAL
CONCRETE POLE BURIED 7 BFG
MINIMUM. | --- |
| COLOR | CONCRETE BASE
FLUSH WITH GRADE | 277 | LED WITH
FIXTURE | 42" AFG, 4000K, 75CRI, ROUND FULL
CUTOFF LED BOLLARD. 180 DEGREE
DISTRIBUTION. ARM TOWARD WALKWAY. | 18 |
| LOR BY | POLE MOUNTED
12'-0" AFG | 277 | LED WITH
FIXTURE | 4000K, 70CRI, LED POLE MOUNTED
FIXTURE, VERIFY FINISH. TYPE II
DISTRIBUTION. SEE DETAIL THIS SHEET. | 52 |
| ON - | DIRECT BURIAL | --- | --- | 19" SQUARE TAPERED DIRECT BURIAL
CONCRETE POLE BURIED 5 BFG
MINIMUM. | --- |
| LOR BY | POLE MOUNTED
12'-0" AFG | 277 | LED WITH
FIXTURE | 4000K, 70CRI, LED POLE MOUNTED
FIXTURE, VERIFY FINISH. TYPE V
DISTRIBUTION. SEE DETAIL THIS SHEET. | 52 |
| ON - | DIRECT BURIAL | --- | --- | 19" SQUARE TAPERED DIRECT BURIAL
CONCRETE POLE BURIED 5 BFG
MINIMUM. | --- |
| LOR BY | ARM MOUNTED 18"
ARM | 277 | (2) 32W T8 | 4' LINEAR SIGN LIGHT WITH SOLID VISOR
AND PRISMATIC ACRYLIC LENS. | 62 |
| NPK-TP- | 6" DOUBLE
PENDANT MOUNT | 120 | (2) 32W T8 | WEATHERPROOF VAPORITITE FIXTURE. | 62 |

NOTE:

1. FURNISH AND INSTALL FUSES IN ALL FIXTURES. LOCATE FUSES AT POLE HANDLE.
2. CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE IN ALL RESPECTS ALL ITEMS LISTED NO SUBSTITUTIONS.
3. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS OF ALL THE FIXTURES TO THE ENGINEER FOR APPROVAL.
4. ALL FIXTURES SHALL BE FURNISHED WITH BIRD DETERRENT WIRES.
5. ALL FIXTURES SHALL BE CLEAN AT THE TIME OF FINAL INSPECTION.
6. ALL FIXTURES SHALL BE FURNISHED WITH A (10) YEAR FACTORY WARRANTY. SUBMIT WARRANTY WITH CATALOG CUTS

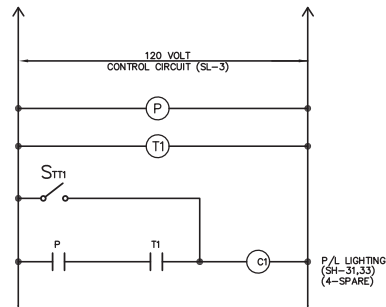


N.T.S.

GENERAL NOTES:

1. CONTRACTOR TO SUBMIT DESIGN WIND LOAD CALCULATIONS CERTIFYING CONFORMANCE OF POLE ASSEMBLY AS DICTATED BY THE 2011 FLORIDA BUILDING CODE. EACH CALCULATION SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER.
2. FURNISH AND INSTALL BUSSMAN "TRON" TYPE "HEB" IN-LINE WATERPROOF FUSE HOLDERS. FUSE WITH BUSSMAN TYPE "FNM" FUSES, FUSED AT 1.0A. LOCATE FUSES IN POLE HAND HOLE.
3. COORDINATE ALL WORK WITH CIVIL AND LANDSCAPE SITE PLANS.
4. POLES SHALL BE FACTORY EQUIPPED WITH GROUNDING STUDS. EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED TO THE GROUND STUD.
5. PULLBOX MANUFACTURED BY QUAZITE W/15,000 LBS DESIGN LOAD TO HAVE HEAVY-DUTY COPOLYMER FULB D.O.T. TRAFFIC RATED HANDLE WITH COVER (COVER TO READ "ELECTRICAL"). FURNISH AND INSTALL GRAVEL (1FT) IN BOTTOM OF PULLBOX FOR DRAINAGE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. ROUTE CONTINUOUS CONTINUOUS THRU POLE ASSEMBLY AND TERMINATE WITH INSULATION BUSHING AT HAND-HOLE WINDOW.

SYMBOL		DESCRIPTION	MOUNTING
	SINGLE POLE MOUNTED LIGHT FIXTURE		SEE FIXTURE SCHEDULE
	SINGLE POLE MOUNTED LIGHT FIXTURE		SEE FIXTURE SCHEDULE
	4' LINEAR FLUORESCENT FIXTURE		SEE FIXTURE SCHEDULE
	BOLLARD		SEE FIXTURE SCHEDULE
	DUPLEX RECEPTACLE (20A., 125V.)		M.H. 18" TO CENTERLINE UNLESS OTHERWISE NOTED
	POWER PANELBOARD		SURFACE 6'-6" A.F.F. TO TOP MAX
'GFI'	DENOTES GROUND FAULT INTERRUPTER TYPE RECEPTACLE.		
WP	'WP' DENOTES WEATHERPROOF IN-USE COVER		
	HOMERUN TO PANEL, LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT.		SEE GENERAL NOTES
	SITE LIGHTING POLE #. '##' INDICATES POLE NUMBER.		SEE POLE IDENTIFICATION DETAIL THIS SHEET



S_{TM} = 0-2HR. TWIST-TIMER FOR PHOTOCELL/TIMECLOCK OVERRIDE.
 LABEL "PHOTOCELL/TIMECLOCK OVERRIDE". LABEL "P/L LGT."
 P = 120V PHOTOCELL, TORK OR INTERMATIC. MOUNT ON 3/4"
 RGS 6" ABOVE TOP OF POST. AIM NORTH.
 T₁ = ASTRONOMICAL, 120V TIMECLOCK. TORK OR INTERMATIC.
 C₁ = 30A FULLY-RATED, 6-POLE NORMALLY OPEN ELECTRICALLY
 HELD LIGHTING CONTACTOR WITH 120 VOLT HOLDING COIL.
 SQUARE-D TYPE 8903.

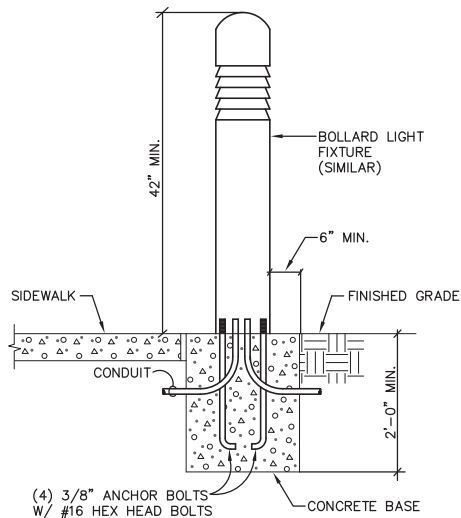
NOT TO SCALE

LIGHTING CONTROL GENERAL NOTES:

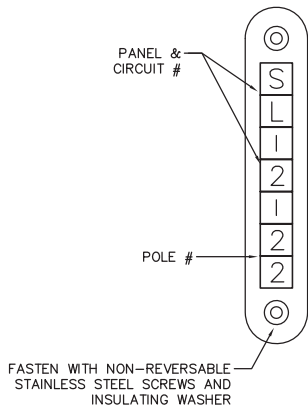
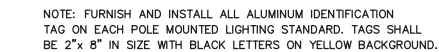
1. LIGHT CONTROL SHALL BE PHOTOCELL "ON", TIMECLOCK "OFF".
2. MOUNT ALL COMPONENTS SHOWN IN A NEMA 3R ENCLOSURE, U.L. 50 LABELED. ARRANGE ENCLOSURE TO HOUSE ALL COMPONENTS EXCEPT PHOTOCELL. SUBMIT DIMENSIONED DETAIL OF ENCLOSURE SHOWING PLACEMENT OF TERMINAL STRIPS, TIMECLOCKS, LIGHTING CONTACTORS AND TWIST-TIMERS TO THE ELECTRICAL ENGINEER FOR APPROVAL.
3. LAMINATE ONE COPY OF THIS DETAIL AND SECURE IT TO THE INSIDE DOOR OF THE ENCLOSURE.
4. MOUNT CONTACTOR ENCLOSURE ADJACENT TO PANEL 'SH'.



5327 Loon Nest Court
Apollo Beach, FL 33572
ph: 813.645.8288
Reg. No. EB29566



N.T.S.



N.T.S.



REV	DATE	DESCRIPTION
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DATE: November 19, 2014

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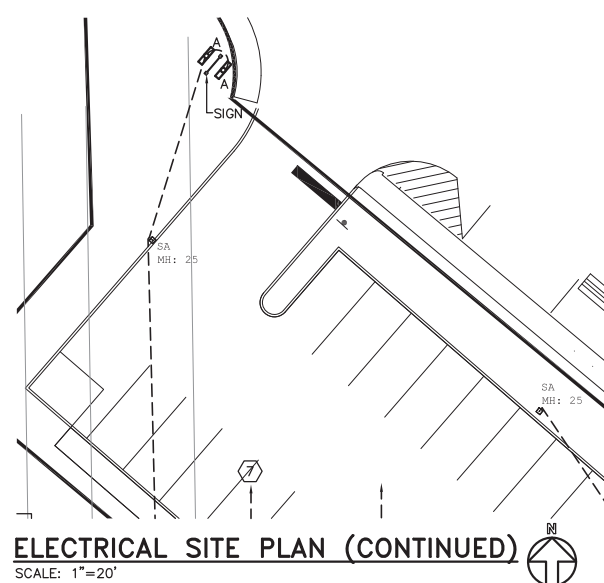
CLIENT	TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166
PROJECT	DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS
TITLE	ELECTRICAL LEGEND, SCHEDULES & DETAILS

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JOB NO.:	22010
DRAWN:	RJ
DESIGN:	RJ/RBJ
CHECKED:	RBJ
APPROVED:	RBJ
SHEET NO.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: 2em; font-weight: bold;">E-100</div> <div style="text-align: right;"> REV. </div> </div>



BID SET

ELECTRICAL SITE PLAN (CONTINUED)

SCALE: 1"=20'

GENERAL NOTES:

1. CONTRACTOR TO ROUTE ALL UNDERGROUND CONDUITS AROUND BUILDING FOUNDATION, WHERE FEASIBLE.
2. ALL CONDUITS SHALL BE BURIED AT 36" BGF UNLESS OTHERWISE NOTED.
3. CONDUIT RUNS TO SHARE COMMON TRENCH WHERE FEASIBLE.
4. COORDINATE ALL WORK WITH CIVIL, LANDSCAPE, AND IRRIGATION PLANS.
5. ALL EMPTY CONDUITS SHALL BE FURNISHED WITH PULLSTRING.
6. ALL WORK SHALL BE COORDINATED WITH FPL REPRESENTATIVE MR. WALTER RUMIE ☎ 305-599-4081 OR WALTER.RUMIE@FPL.COM.
7. CONTRACTOR SHALL INCLUDE ANY CONTRIBUTION IN AID IMPOSED BY UTILITY COMPANIES IN HIS/HER BID.
8. CONTRACTOR TO PROVIDE TRAFIC RATED PULLBOXES AS/IF REQUIRED BY UTILITY COMPANY.
9. COORDINATE ALL UNDERGROUND ROUTING WITH UTILITIES.
10. REFER TO SHEET E-300 FOR PANELBOARD SCHEDULES.
11. REFER TO SHEET E-300 FOR SINGLE-LINE DIAGRAM.


KEYED NOTES:

1. ROUTE CONDUIT AND CONDUCTORS VIA MUSCO FURNISHED/CONTRACTOR INSTALLED FIELD LIGHTING CONTROL CABINET 'LCC'.
2. ROUTE CONDUIT AND CONDUCTORS VIA SITE LIGHTING CONTROL PANEL 'LCP'. REFER TO DETAIL ON SHEET E-100.
3. JUNCTION BOX WITH TOP SET AT 2" A.F.G. (ALLOW FOR SOD). 11"W x 18"L x 12"D HEAVY DUTY COPOLYMER FULL TRAFFIC RATED HANDHOLE WITH COVER. QUAZITE #PG1118BA12/PG1118HA00-17. (COVER LOGO TO READ "ELECTRICAL"). LOCATE JUNCTION BOX WITHIN 10' OF FIELD LIGHT POLE. DO NOT DIMENSION FROM DRAWINGS. USE FIELD LIGHT POLE DIMENSIONS SHOWN WITH REFERENCE POINT SHOWN FOR EACH FIELD. ONCE MUSCO FURNISHES AND INSTALLS POLE EXTEND CONDUIT AND CONDUCTORS FROM JUNCTION BOX UNDERGROUND TO POLE, UP POLE TO MUSCO FURNISHED BALLAST BOX (APPROX. 20' AFG). LEAVE SUFFICIENT CONDUCTOR AT JUNCTION BOX TO AVOID SPLICES. CONDUCTORS SHALL BE RUN CONTINUOUS FROM 'LCC' TO MUSCO FURNISHED BALLAST BOX VIA JUNCTION BOX. FINAL TERMINATION AT BALLAST BOX BY MUSCO.
4. 2" SECONDARY EMPTY CONDUIT WITH PULLSTRING FROM PANEL 'SL' STUBBED UP 2'-0" AFG AT FUTURE CONCESSION BUILDING FOR FUTURE POLE TO FUTURE CONCESSION BUILDING. USE LONG SWEEP ELBOWS.
5. JUNCTION BOX 'HH-1' WITH TOP SET AT 2" A.F.G. (ALLOW FOR SOD) FOR FUTURE POWER FOR EVENTS. 11"W x 18"L x 12"D HEAVY DUTY COPOLYMER FULL TRAFFIC RATED HANDHOLE WITH COVER. QUAZITE #PG1118BA12/PG1118HA00-17. (COVER LOGO TO READ "ELECTRICAL"). ROUTE 1" EMPTY CONDUIT WITH PULLSTRING TO PANEL 'SH'.
6. PROPOSED LOCATION OF FPL'S NEW PAD MOUNTED TRANSFORMER. SEE SINGLE-LINE DIAGRAM ON SHEET E-300.
7. (2) 4" PRIMARY CONDUITS WITH 36" LONG SWEEP ELBOWS, SEE SINGLE-LINE DIAGRAM ON SHEET E-300. BURY CONDUITS @ 42" B.F.G. MINIMUM. PROVIDE PLASTIC WARNING TAPE @ 18" B.F.G. DIRECTLY ABOVE CONDUIT. COORDINATE SPECIFIC REQUIREMENTS, ROUTING, AND TERMINATION POINT WITH FPL.
8. SECONDARY CONDUIT(S) AND CONDUCTORS. SEE SINGLE-LINE DIAGRAM ON SHEET E-300. BURY CONDUIT(S) @ 42" B.F.G. MINIMUM. PROVIDE PLASTIC WARNING TAPE @ 18" B.F.G. DIRECTLY ABOVE CONDUIT(S).
9. APPROXIMATE LOCATION OF MAIN ELECTRICAL SERVICE, PANELS, AND LIGHTING CONTROL PANELS. SEE SINGLE-LINE DIAGRAM ON SHEET E-300.
10. (2) 2" CONDUITS WITH 36" LONG SWEEP ELBOWS FOR FUTURE TELEPHONE AND CABLE. BURY CONDUITS @ 36" B.F.G. MINIMUM. STUB-UP, CAP, AND MARK CONDUITS 6" AFG IN FRONT OF THE FUTURE 'ITB'. COORDINATE EXACT ROUTING AND TERMINATION POINTS WITH TELEPHONE AND CABLE COMPANIES PRIOR TO BID.
11. MOUNT PUMP STATION CONTROL PANEL AND DISCONNECT ON (2) 10' x 6' PRECAST CONCRETE POSTS SET 3'-0" INTO EARTH WITH A 6" DEEP CONCRETE FOOTER AT BASE OF POST. MOUNT EQUIPMENT TO POSTS WITH 3/4" UNI-STRUT. DISCONNECT TO BE A 600V/NEMA 4X/30A/3P/FUSED TO CONTROL PANEL NAMEPLATE DATA. REFER TO SINGLE-LINE DIAGRAM ON SHEET E-300.
12. 3/4" EMPTY CONDUIT STUBBED UP AT 2'-0" AFG FOR FUTURE LIGHTING OF FUTURE SCULPTURE.
13. 120V PHOTOCELL. ROUTE LIGHTING CIRCUIT VIA PHOTOCELL. PHOTOCELL SHALL OVERRIDE OCCUPANCY SENSOR OFF. MOUNT PHOTOCELL 6" ABOVE ROOF ON 3/4" RGS CONDUIT. AIM NORTH.
14. 120V LINE-VOLTAGE PASSIVE INFRARED OCCUPANCY SENSOR RATED FOR WET LOCATIONS. WATT STOPPER NO. HB350W-L3. MOUNT TO BOTTOM OF STRUCTURE.

[illegible][illegible]

CLIENT	TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166
PROJECT	DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS
TITLE	ELECTRICAL SITE PLAN

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 AUTHORIZATION NO.24
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JOB NO.:	22010
DRAWN:	RJ
DESIGN:	RJ/RBJ
CHECKED:	RBJ
APPROVED:	RBJ
SHEET NO.	<div style="display: flex; justify-content: space-between; align-items: center;"> E-200 REV.  </div>



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Reg. No. EB29566

SERVICE ENTRANCE RATED PANEL	NOTE	REMARKS	SH	VOLTAGE	277 / 480	V	SIZE	225A MCB	CABINET	SURFACE	NEMA-3R	AIC RATED	NOTE				
PHASE	3	PH	4	W	BUS	CKT #	A	B	C	CKT #	A	B	C	AMPS	P	REMARKS	NOTE
CKT #	A	B	C	CKT #	A	B	C	AMPS	P	REMARKS	NOTE						
AMPS	P	A	B	C	CKT #	A	B	C	AMPS	P	REMARKS	NOTE					
AMPS	P	A	B	C	CKT #	A	B	C	AMPS	P	REMARKS	NOTE					
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SERVICE ENTRANCE RATED PANEL

SL VOLTAGE 120 / 208 V SIZE 225A MCB CABINET SURFACE NEMA-3R

PHASE 3 PH 225A BUS RATING 10,000 AIC RATED

4 W

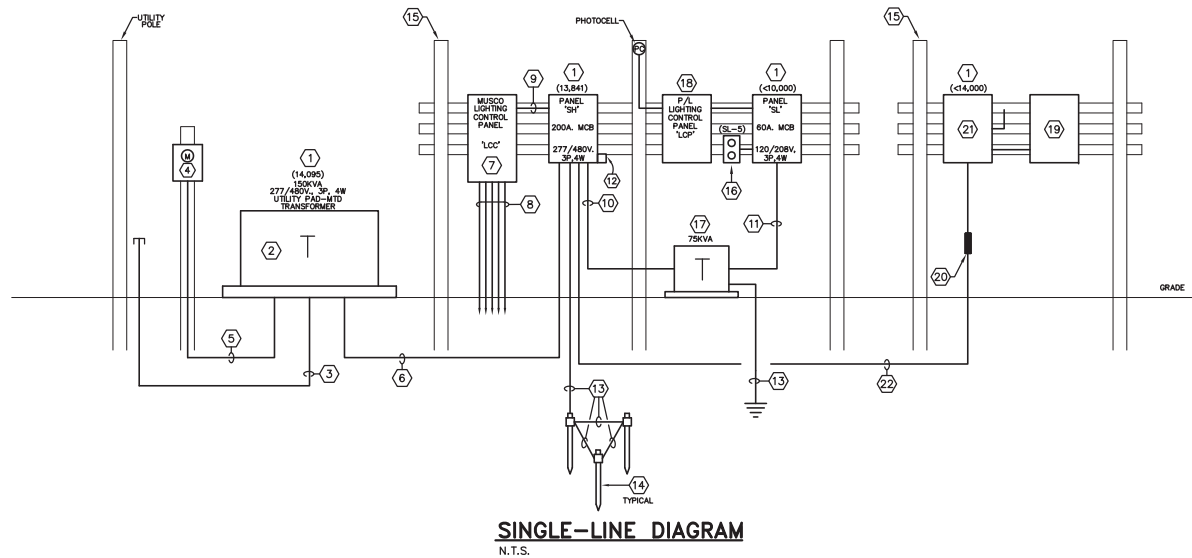
NOTE	REMARKS	CKT.BKR.		VA PHASE LOAD				BUS			VA PHASE LOAD			CKT.BKR.		REMARKS	NOTE		
		AMPS	P	A	B	C	CKT #	A	B	C	CKT #	A	B	C	AMPS			P	
	MUSCO 'LCC'	20	1		221			1	X		2		484			20	1	PICNIC SHELTER	
	P/L 'LCP'	20	1			200		3	X		4					20	1	SPARE	
	RECEPTACLE	20	1				180	5		X	6					20	1	SPARE	
	SPARE	20	1					7	X		8					20	1	SPARE	
	SPARE	20	1					9		X	10					20	1	SPARE	
	SPARE	20	1					11			X	12				20	1	SPARE	
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	SPARE	20	1					15		X		16				20	1	SPARE	
	SPARE	20	1					17			X	18				20	1	SPARE	
	SPARE	20	1					19	X			20				20	1	SPARE	
	SPARE	20	1					21		X		22				20	1	SPARE	
	SPARE	20	1					23			X	24				20	1	SPARE	
	SPARE	20	1					25	X			26				20	1	SPARE	
	SPARE	20	1					27		X		28				20	1	SPARE	
	SPARE	20	1					29			X	30				20	1	SPARE	
	SPARE	20	1					31	X			32				20	1	SPARE	
	SPARE	20	1					33		X		34				20	1	SPARE	
	SPARE	20	1					35			X	36				20	1	SPARE	
	FUTURE CONCESSION BUILDING	100	3		9600			37	X			38							
					9600			39		X		40							
						9600		41			X	42						3	SPACE
	TOTAL			9821		9800		9780					484			TOTAL			

NOTES:

BID SET

NOTE:
CONTRACTOR IS RESPONSIBLE FOR UPDATING ALL PANEL SCHEDULES
WITH CURRENT DESCRIPTIONS OF ALL BRANCH CIRCUIT DESIGNATIONS.

TABULATION	TOTAL LOAD	DEMAND FACTOR	DEMAND LOAD
MEASURED			
LIGHTING	545	1.25	681
COOLING			
HEATING			
RECEPTACLE	540	1.00	540
MISCELLANEOUS	28800	1.00	28800
LARGEST MOTOR			
TOTAL DEMAND LOAD	30021 VA		
TOTAL DEMAND AMPS	83.3 A		



SINGLE-LINE GENERAL NOTES:

1. ALL WORK SHALL BE COORDINATED WITH FPL REPRESENTATIVE MR. WALTER RUMIE @ 305-599-4081 OR WALTER.RUMIE@FPL.COM.

SINGLE-LINE KEYED NOTES:

1. MAXIMUM SYMMETRICAL RMS FAULT CURRENT. ALL PANELBOARDS AND BREAKERS SHALL BE CAPABLE OF WITHSTANDING THE MOMENTARY FAULT CURRENT SHOWN. SERIES RATING SHALL NOT BE PERMITTED.
2. 277/480V., 3P., 4W., PAD MOUNTED UTILITY TRANSFORMER. CONCRETE PAD PER FPL'S SPECIFICATIONS BY CONTRACTOR. CT'S LOCATED ON THE SECONDARY SIDE OF THE UTILITY TRANSFORMER BY FPL.
3. (2) 4" PRIMARY CONDUITS. REFER TO SHEET E-200. TURN AND CAP CONDUITS AT UTILITY POLE USING 36" LONG SWEEP ELBOWS. PROVIDE PULLSTRING. COORDINATE SPECIFIC REQUIREMENTS WITH UTILITY COMPANY.
4. METER SOCKET FURNISHED AND INSTALLED BY CONTRACTOR PER FPL'S SPECIFICATIONS. METER BY FPL. MOUNT METER SOCKET TO 10'x6" PRECAST CONCRETE POST SET 3'-0" INTO EARTH WITH A 6" DEEP CONCRETE FOOTER AT BASE OF POST. LOCATE WITHIN 10' OF UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH FPL.
5. 1 1/2" RGS CONDUIT, BY CONTRACTOR, FOR METERING CONDUCTORS, BY FPL.
6. 4 NO. 4/0 CU - 2°C. EACH.
7. FIELD LIGHTING CONTROL CABINET. FURNISHED BY MUSCO, INSTALLED BY CONTRACTOR. ROUTE 2 NO. 12 CU AND 1 NO. 12 CU EG - 1/2" TO 'SL-1' FOR MUSCO LIGHTING CONTROL PANEL CONTROL CIRCUIT.
8. BRANCH CIRCUIT CONDUITS AND CONDUCTORS TO FIELD LIGHTING POLES.
9. (2) 2°C. WITH BRANCH CIRCUIT CONDUCTORS.
10. 3 NO. 1 CU & 1 NO. 6 CU EG - 1 1/2°C.
11. 4 NO. 4/0 CU & 1 NO. 2 CU EG - 2 1/2°C.
12. SPD UNIT. ATLANTIC SCIENTIFIC #16404.
13. NO. 2 AWG CU. GROUNDING ELECTRODE CONDUCTOR.
14. 3/4" X 10'-0" COPPER CLAD DRIVEN GROUND ROD. PLACE A MINIMUM OF 10'-0" APART. GROUNDING SYSTEM MUST BE TESTED AND BE 5 OHMS OR LESS. ADD ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE.
15. 10' x 6" PRECAST CONCRETE POSTS SET 3'-0" INTO EARTH WITH A 6" DEEP CONCRETE FOOTER AT BASE OF POST. MOUNT SHOWN EQUIPMENT TO POSTS WITH 3/4" UNI-STRUT. PAINT UNI-STRUT. COLOR BY ARCHITECT OR OWNER.
16. 120V, 20A-1P, GFCI, RECEPTACLE WITH WEATHERPROOF COVER. CONNECT TO INDICATED CIRCUIT WITH 2 NO. 12 CU & 1 NO. 12 CU EG - 3/4°C.
17. 480V-120/208V., 3-PHASE, 80 DEGREE C RISE, DRY-TYPE, STEP-DOWN TRANSFORMER IN WEATHERPROOF ENCLOSURE. KVA INDICATED. LIMIT SECONDARY CONDUCTOR LENGTH TO 10'-0" MAX. PROVIDE FLEXIBLE CONNECTION TO FINAL 2'-0" PRIMARY AND SECONDARY CONDUIT. DO NOT STUB CONDUIT INTO BOTTOM OF TRANSFORMER. CONDUIT ENTRIES SHALL BE MADE ON SIDES BELOW MANUFACTURER'S MAXIMUM ALLOWABLE HEIGHT. GROUND AND BOND 'XO' VIA INDICATED CONDUCTOR TO SERVICE ENTRANCE GROUNDING ELECTRODE CONDUCTOR VIA EXOTHERMAL WELD. FURNISH AND INSTALL TRANSFORMER ON 8" CONCRETE HOUSEKEEPING PAD.
18. EXTERIOR SITE LIGHTING CONTROL PANEL. FURNISHED AND INSTALLED BY CONTRACTOR. ROUTE 2 NO. 12 CU AND 1 NO. 12 CU EG - 1/2" TO 'SL-3' FOR TIMECLOCK AND CONTACTOR CONTROL. REFER TO DETAIL ON SHEET E-100.
19. PUMP STATION CONTROL PANEL FURNISHED BY OTHERS INSTALLED BY CONTRACTOR.
20. PROVIDE SEAL-OFFS AS/IF REQUIRED. COORDINATE WITH PUMP STATION SUPPLIER.
21. PUMP STATION DISCONNECT SWITCH 600V/NEMA 4X/30A/3P/FUSED TO CONTROL PANEL NAMEPLATE DATA.
22. 3 NO. 10 CU & 1 NO. 10 CU EG - 3/4°C.



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ORIGINAL ISSUED DATE :					
DATE: November 19, 2014					

[illegible]

CLIENT	TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166
PROJECT	DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS
TITLE	ELECTRICAL SINGLE -LINE DIAGRAM, & PANEL SCHEDULES

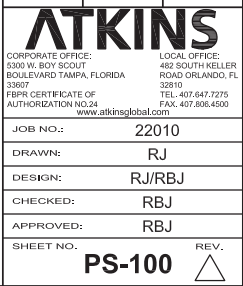
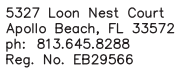
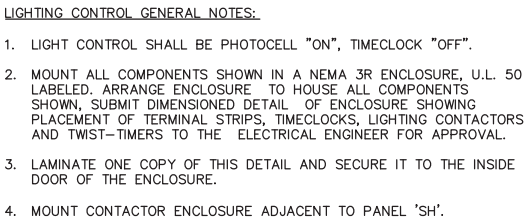
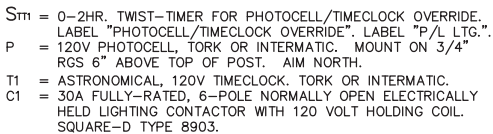
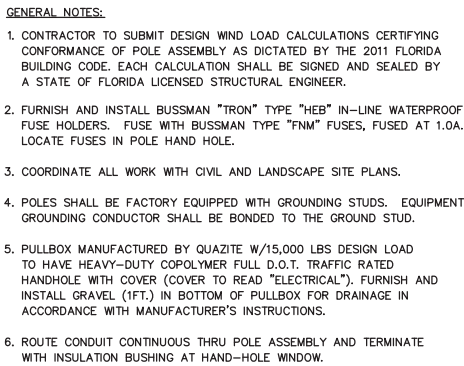
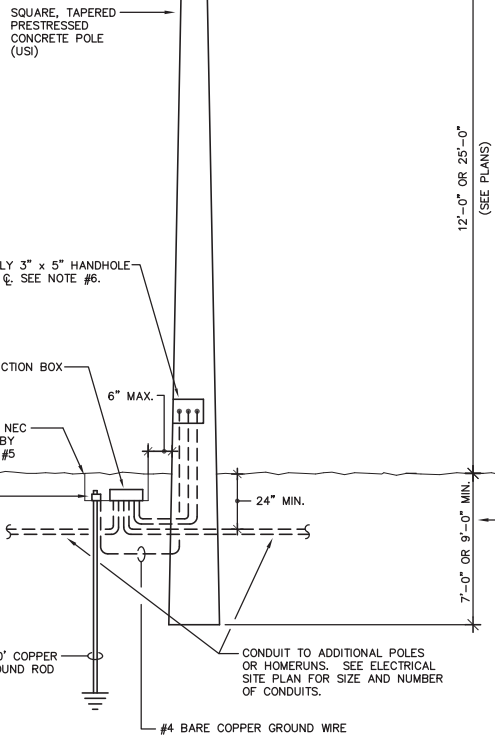
ATKINS	
CORPORATE OFFICE: 5100 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607 FBPR CERTIFICATION NO.24 www.atkinsglobal.com	LOCAL OFFICE: 482 SOUTH KELLER ROAD ORLANDO, FL 32810 TEL. 407.647.7275 FAX 407.606.4500
JOB NO.:	22010
DRAWN:	RJ
DESIGN:	RJ/RBJ
CHECKED:	RBJ
APPROVED:	RBJ
SHEET NO.	REV.
E-300	

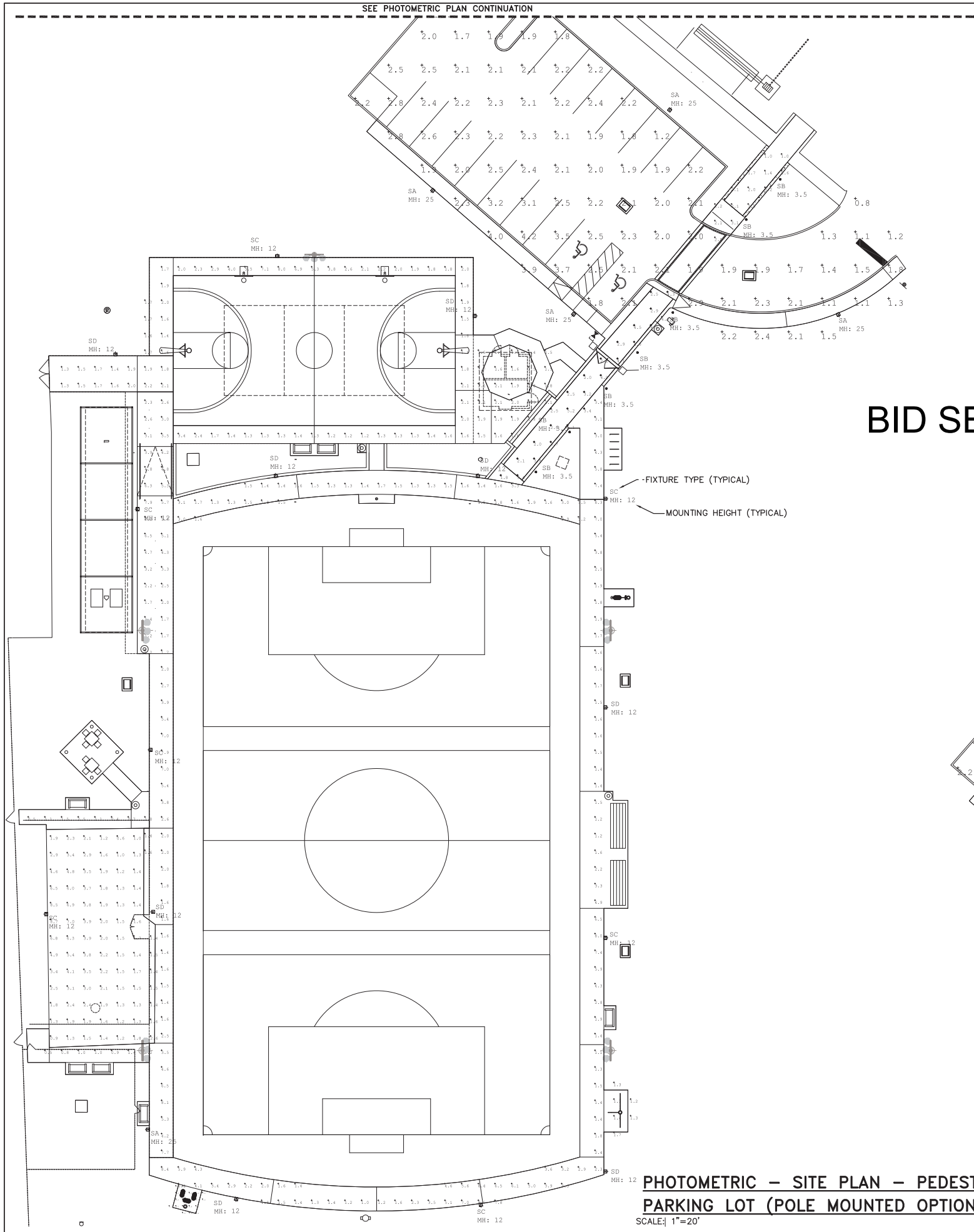
 **Spectrum**
consulting engineers, inc.

5327 Loon Nest Court
Apollo Beach, FL 33572
ph: 813.645.8288
Reg. No. EB29566

NOTE:

1. FURNISH AND INSTALL FUSES IN ALL FIXTURES. LOCATE FUSES AT POLE HANDHOLE.
2. CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE IN ALL RESPECTS ALL ITEMS LISTED. NO SUBSTITUTIONS.
3. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS OF ALL THE FIXTURES TO THE ENGINEER FOR APPROVAL.
4. ALL FIXTURES SHALL BE FURNISHED WITH BIRD DETERRENT WIRES.
5. ALL FIXTURES SHALL BE CLEAN AT THE TIME OF FINAL INSPECTION.
6. ALL FIXTURES SHALL BE FURNISHED WITH A (10) YEAR FACTORY WARRANTY. SUBMIT WARRANTY WITH CATALOG CUTS.





Danny Meehan Recreational Fields Alternate Revised 10/15/14
Foot candles at grade, no reflectances

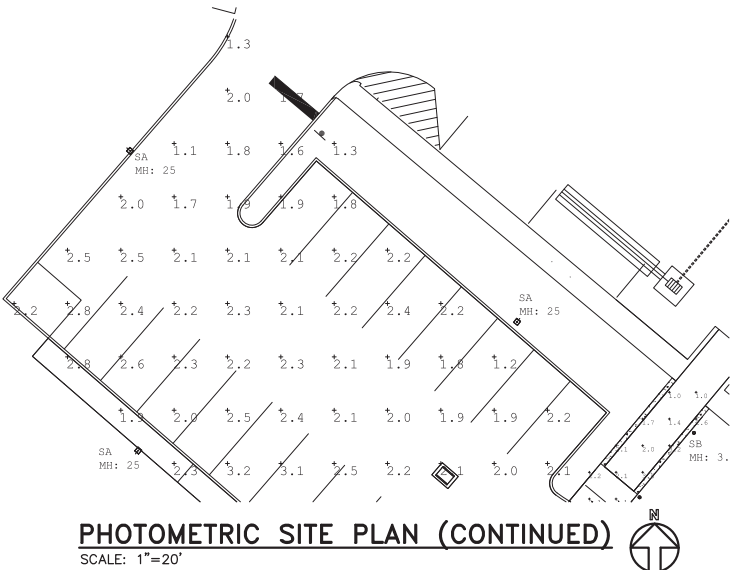
Luminaire Schedule							
Symbol	Qty	Label	Description	Arrangement	Delivered Lumens	Lum. Watts	LLF
	6	SA	ECF-1-3-105LA-321A-NW-UNV-FINISH-IS	SINGLE	7693	106.6	0.820
	7	SB	BR840-42-CWL-NW-180-18-UNIV-FINISH	SINGLE	371	17.1	0.820
	7	SC	ECF-1-2-55LA-3253-NW-UNV-FINISH	SINGLE	5994	51.6	0.820
	8	SD	ECF-1-5-55LA-3253-NW-UNV-FINISH	SINGLE	5588	51.6	0.820

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Fitness Station 1	Illuminance	Fc	1.25	1.8	0.5	2.50	3.60
Fitness Station 2	Illuminance	Fc	1.37	1.7	1.2	1.14	1.42
Fitness Station 3	Illuminance	Fc	4.08	5.5	3.4	1.20	1.62
Parking and Bus drop off	Illuminance	Fc	2.12	4.2	0.8	2.65	5.25
Parking Area to Fields Walkway	Illuminance	Fc	3.32	5.2	1.8	1.84	2.89
Parking Area to Street Walkway	Illuminance	Fc	2.15	3.6	1.0	2.15	3.60
Paths	Illuminance	Fc	2.71	8.5	0.4	6.78	21.25
Playground	Illuminance	Fc	2.59	8.7	0.6	4.32	14.50

GENERAL NOTES:

1. BALL FIELD PHOTOMETRIC VALUES CALCULATED AND PRODUCED BY MUSCO LIGHTING AND ARE SHOWN FOR REFERENCE ONLY.
2. REFER TO MUSCO LIGHTING PLANS FOR ADDITIONAL INFORMATION AND GUARANTEED PERFORMANCE ILLUMINATION SUMMARY.
3. ALL BALL FIELD LIGHTING PHOTOMETRIC VALUES ARE CALCULATED AT 3'-0" A.F.G.
4. ALL PEDESTRIAN AND PARKING LOT PHOTOMETRIC VALUES ARE CALCULATED AT GRADE.
5. ALL NUMBERS REPRESENT PHOTOMETRIC VALUES IN FOOTCANDLES.
6. BALL FIELD LIGHTING DOES NOT CONTRIBUTE TO ROADWAY AND PARKING PHOTOMETRIC VALUES. BALL FIELD LIGHTING, AND PEDESTRIAN AND PARKING LIGHTING ARE RUN INDEPENDANTLY FROM ONE ANOTHER.
7. SEE LIGHTING FIXTURE SCHEDULE ON SHEET PS-100 FOR FIXTURE TYPES AND MOUNTING HEIGHTS.

BID SET



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