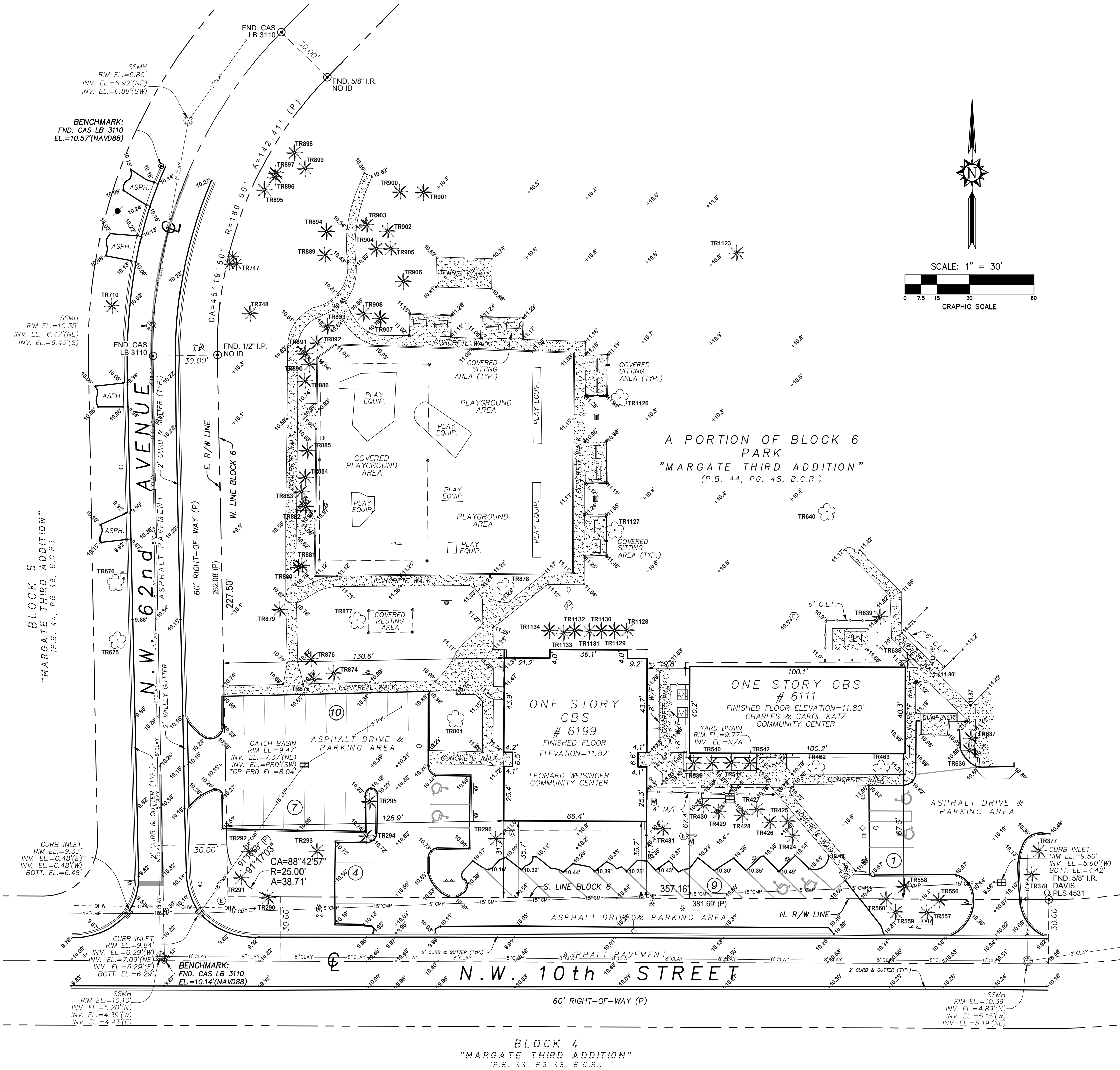


SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY

TREE TABLE			
TREE #	COMMON NAME	TREE DIAMETER (IN INCHES)	COMMENTS
290	COCONUT PALM	12	
291	COCONUT PALM	13	
292	COCONUT PALM	12	
293	COCONUT PALM	11	
294	CABBAGE PALM	9	
295	CABBAGE PALM	8	
296	CABBAGE PALM	13	
377	CABBAGE PALM	11	
378	CABBAGE PALM	12	
424	CABBAGE PALM	12	
425	CABBAGE PALM	10	
426	CABBAGE PALM	13	
427	CABBAGE PALM	13	
428	CABBAGE PALM	13	
429	CABBAGE PALM	11	
430	CABBAGE PALM	13	
431	CABBAGE PALM	12	
462	UNKNOWN TREE	5	
463	UNKNOWN TREE	5	
539	PHOENIX ROEBELENI PALM	3	
540	PHOENIX ROEBELENI PALM	3	
541	PHOENIX ROEBELENI PALM	3	
542	PHOENIX ROEBELENI PALM	3	
556	CABBAGE PALM	12	
557	CABBAGE PALM	12	
558	CABBAGE PALM	13	
559	CABBAGE PALM	13	
560	CABBAGE PALM	13	
636	CABBAGE PALM	12	
637	CABBAGE PALM	13	
638	CABBAGE PALM	11	
639	CABBAGE PALM	11	
640	OAK TREE	15	
675	MAHOGANY TREE	24	
676	MAHOGANY TREE	16	
710	ROYAL PALM	14	
747	PALM CLUSTER	N/A	
748	CABBAGE PALM	8	
801	OAK TREE	8	
874	CABBAGE PALM	12	
875	CABBAGE PALM	12	
876	CABBAGE PALM	12	
877	GUMBO LIMBO	18	
878	BOTTLE BRUSH	24	
879	CABBAGE PALM	10	
880	CABBAGE PALM	12	
881	CABBAGE PALM	12	
882	CABBAGE PALM	12	
883	CABBAGE PALM	9	
884	CABBAGE PALM	10	
885	CABBAGE PALM	10	
886	CABBAGE PALM	10	
889	CABBAGE PALM	12	
890	CABBAGE PALM	12	
891	CABBAGE PALM	12	
892	CABBAGE PALM	10	
893	CABBAGE PALM	15	
894	CABBAGE PALM	9	
895	CABBAGE PALM	10	
896	CABBAGE PALM	12	
897	CABBAGE PALM	8	
898	CABBAGE PALM	9	
899	CABBAGE PALM	11	
900	CABBAGE PALM	12	
901	CABBAGE PALM	14	
902	CABBAGE PALM	10	
903	CABBAGE PALM	10	
904	CABBAGE PALM	10	
905	CABBAGE PALM	11	
906	CABBAGE PALM	12	
907	CABBAGE PALM	10	
908	CABBAGE PALM	10	
1123	QUEEN PALM	10	
1126	GUMBO LIMBO	24	
1127	GUMBO LIMBO	30	
1128	CABBAGE PALM	9	
1129	CABBAGE PALM	11	
1130	CABBAGE PALM	12	
1131	CABBAGE PALM	11	
1132	CABBAGE PALM	11	
1133	CABBAGE PALM	10	
1134	CABBAGE PALM	12	



ABBREVIATIONS:

B.C.R.	BROWARD COUNTY RECORDS
P.B.	PLAT BOOK
D.B.B.	DEED BOOK
P.G.	PAGE
P.L.S.	PROFESSIONAL LAND SURVEYOR
L.B.	LICENSED BUSINESS
(P)	PER PLAT
(TYP.)	TYPICAL
INV.	INVERT
EL.	ELEVATION
FND.	FOUND
I.P.	IRON PIPE
I.R.	IRON ROD
SSMH.	STORM DRAINAGE MANHOLE
SSMH.	SANITARY SEWER MANHOLE
BOTT.	BOTTOM
CMP.	CORRUGATED METAL PIPE
PVC.	POLYVINYL CHLORIDE
EQUIP.	EQUIPMENT
C.L.F.	CHAIN LINK FENCE
W.F.	WOOD FENCE
M.F.	METAL FENCE
CA	CENTRAL ANGLE
R	RADIUS
A	ARC DISTANCE
CAS	CRAIG A. SMITH

LEGEND:

1	AIR CONDITIONING UNIT
2	ANCHOR OR GUY WIRE
3	CURB INLET OR CATCH BASIN
4	SANITARY SEWER MANHOLE
5	BACKFLOW PREVENTER
6	BENCH
7	BOLLARD OR GUARD POST
8	CABLE TV VAULT
9	GENERATOR
10	DOUBLE SUPPORT SIGN
11	SIGN
12	MAIL BOX
13	METAL POST
14	TRASH BIN
15	CONCRETE LIGHT POLE
16	FIRE HYDRANT
17	WATER VALVE
18	POLYETHYLENE GLASS REINFORCED PLASTIC
19	SEWER VALVE
20	WOODPOWER/LIGHT POLE
21	ELECTRIC WIRE PULL BOX
22	EXISTING SURFACE ELEVATION
23	NUMBER OF PARKING SPACES
24	HANDICAP SPACE

TREE LEGEND:

1	EXISTING PALM (REFER TO TREE TABLE)
2	EXISTING TREE (REFER TO TREE TABLE)
3	EXISTING TREE/PALM CLUSTER (REFER TO TREE TABLE)
4	TREE NUMBER (REFER TO TREE TABLE)

SURVEYOR'S REFERENCES:

1. THE PLAT OF "MARGATE THIRD ADDITION" RECORDED IN PLAT BOOK 44, PAGE 48 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TREE SURVEY NOTES:

1. THIS FIRM HAS IDENTIFIED THE VARIOUS TYPES OF TREES LOCATED ON THIS SITE BASED ON COMMON KNOWLEDGE OF TREE SPECIES. FOR POSITIVE IDENTIFICATION OF TREE SPECIES A QUALIFIED LANDSCAPE ARCHITECT OR BOTANIST SHOULD BE CONSULTED. TREES THREE (3") CALIPER INCHES OR LARGER, WHEN MEASURED AT BREAST HEIGHT, ARE SHOWN ON THE SURVEY DRAWING. HEDGES AND GROUND COVER ARE NOT SHOWN THE SURVEY DRAWING. EXOTIC TREES SUCH AS MELALEUCA, BRAZILIAN PEPPER, AND AUSTRALIAN PINE ARE NOT SHOWN ON THE SURVEY DRAWING.
2. EACH TREE LOCATED HAS BEEN TAGGED WITH A NUMBERED TAG THAT CORRESPONDS TO THE TREE LEGEND SHOWN HEREON.
3. CLUSTERS OF TREES ARE SHOWN GROUPED WITH AN APPROXIMATION OF THE TOTAL NUMBER OF TREES LOCATED WITHIN THE GROUP.
4. THE CANOPY DIAMETER AND SPREAD ARE NOT SHOWN HEREON, UNLESS INDICATED OTHERWISE.

CERTIFIED TO:

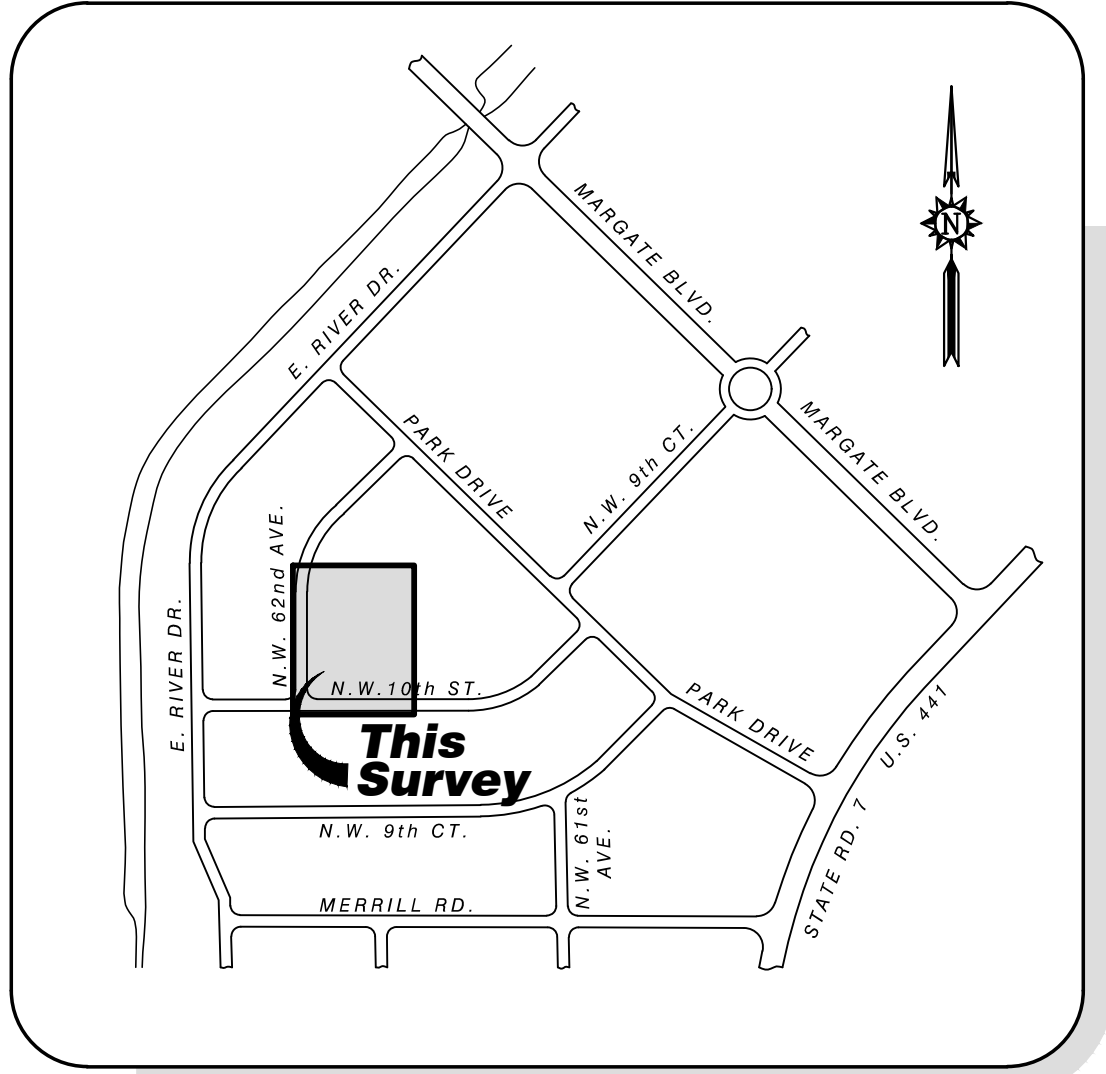
CPZ ARCHITECTS INC.

SURVEYOR'S CERTIFICATE:

THIS IS TO CERTIFY THAT THIS SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SKETCH MEETS THE STANDARDS OF PRACTICE, ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE OF SIGNATURE: 6/20/17

RICHARD G. CRAWFORD, JR.
PROFESSIONAL SURVEYOR AND MAPPER NO. 5371
STATE OF FLORIDA
STONER & ASSOCIATES, INC. L.B. 6633
rcrawford@stonersurveyors.com



Location Map

NOT TO SCALE

SURVEY NOTES:

1. THIS SKETCH OF TOPOGRAPHIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
3. A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS-OF-WAY, OR OTHER MATTERS OF RECORD WAS NOT PERFORMED BY STONER & ASSOCIATES, INC. THERE MAY BE ADDITIONAL INFORMATION RECORDED IN THE PUBLIC RECORDS THAT IS NOT SHOWN HEREON. FOR FURTHER INFORMATION, CONTACT A QUALIFIED TITLE COMPANY OR CONSULT THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
4. THE ANGLES AND DISTANCES SHOWN HEREON ARE BASED ON THE PLAT OF "MARGATE THIRD ADDITION", RECORDED IN PLAT BOOK 44, AT PAGES 48, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
5. THE ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88), BENCHMARK 3010, ESTABLISHED BY BROWARD COUNTY ENGINEERING DEPARTMENT, ELEVATION = 17.375'(N.A.V.D.88).
6. CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE. THE SYMBOLS HAVE BEEN PLOTTED AT THE APPROXIMATE CENTER OF THE FEATURE BASED UPON THE FIELD LOCATION.
7. THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1 INCH = 30 FEET.
8. THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS ONE-TENTH (0.1' ±) OF A FOOT, PLUS OR MINUS. THE VERTICAL (ELEVATIONS) ACCURACY FOR WELL DEFINED IMPROVEMENTS, FEATURES, AND SURFACES DEPICTED ON THIS SURVEY IS TWO-TENTHS (0.2' ±) OF A FOOT, PLUS OR MINUS.
9. HEDGES, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.
10. IRRIGATION FEATURES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.
11. FENCES AND WALL DIMENSIONS ARE APPROXIMATE. THE SURVEYOR DID NOT DETERMINE OWNERSHIP OF FENCES AND WALLS.
12. SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION, OR EXCAVATION CONTACT 811 AND/OR THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
13. THE EXTERIOR BUILDING DIMENSIONS SHOWN HEREON REPRESENT THE OVERALL SIZE OF THE BUILDING (FOOTPRINT). SUBSURFACE BUILDING FOOTINGS AND SUPPORTS WERE NOT LOCATED. CERTAIN ARCHITECTURAL FEATURES MAY NOT BE SHOWN ON THE SURVEY. ROOF OVERHANGS ARE NOT SHOWN UNLESS OTHERWISE NOTED. BUILDING DIMENSIONS AND BUILDING SETBACKS ARE SHOWN ROUNDED TO THE NEAREST ONE-TENTH (0.1') OF A FOOT. BEFORE DESIGN OF IMPROVEMENTS CRITICAL DIMENSIONS SHOWN BE CONFIRMED.
14. THE DIMENSIONS SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS THEREOF.
15. AREA COMPUTATIONS, WHEN SHOWN IN ACRES, ARE ROUNDED TO THE NEAREST ONE-HUNDREDTH OF AN ACRE, AND WHEN SHOWN IN SQUARE FEET ARE ROUNDED TO THE NEAREST SQUARE FOOT. THE AREA FIGURES SHOWN HEREON SHOULD NOT BE UTILIZED AS THE BASIS OF PURCHASE PRICE FOR A REAL ESTATE CLOSING, WITHOUT PRIOR VERIFICATION OF THE AREA FIGURES, IN WRITING FROM THE SIGNING SURVEYOR.
16. THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.
17. THE SANITARY SEWER AND STORM DRAINAGE AS-BUILT DATA SHOWN HEREON WAS COLLECTED FOR ENGINEERING DESIGN PURPOSES ONLY. THE AS-BUILT DATA IS LIMITED TO STRUCTURE RIM AND PIPE INVERT ELEVATIONS ONLY. PIPE SIZES AND PIPE MATERIAL TYPES SHOULD BE CONFIRMED BEFORE DESIGN OF IMPROVEMENTS. THE SURVEYORS DID NOT PHYSICALLY ENTER THE STRUCTURES AND ALL OF THE MEASUREMENTS AND ELEVATIONS WERE COLLECTED (WITH THE LID OF THE STRUCTURE REMOVED) BY VISUAL OBSERVATIONS IN ACTIVE FACILITIES WITH WATER AND EFFLUVIA PRESENT. THE CONNECTIONS BETWEEN STRUCTURES WERE VISUALLY INSPECTED OR VERIFIED AND THE CONDITION OF PIPING WAS NOT DETERMINED. CRITICAL ELEVATIONS AND DIMENSIONS SHOULD BE VERIFIED BEFORE DESIGN OF IMPROVEMENTS, WITH THE FACILITIES PUMPED DOWN AND PIPES CLEANED OUT. BEFORE ORDERING REPLACEMENT OR CONNECTING PIPES THE SIZE AND TYPE OF PIPES SHOULD BE CONFIRMED.
18. THE INFORMATION DEPICTED ON THIS SKETCH OF SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED ON THE BORDER OF THE DRAWING AND CAN ONLY BE CONSIDERED VALID FOR THIS DATE AND INDICATES THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE FIELD SURVEY.
19. THIS SKETCH OF SURVEY CANNOT BE RELIED UPON BY PERSONS OR ENTITIES OTHER THAN THOSE PERSONS OR ENTITIES CERTIFIED TO HEREON. ADDITIONS OR DELETIONS TO THIS SURVEY AND/OR REPORTS BY PEOPLE OR PERSONS OTHER THAN THE SIGNING PARTIES ARE PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
20. THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY STONER & ASSOCIATES, INC. (S&A). S&A HAS TAKEN PRECAUTIONS TO ENSURE THE ACCURACY OF THIS DOCUMENT AND THE DATA REFLECTED HEREIN. S&A CANNOT NOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE TO THE DATA CONTAINED IN THIS DOCUMENT BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. S&A MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT S&A FOR VERIFICATION OF ACCURACY.

SKETCH OF TOPOGRAPHIC AND
SPECIFIC PURPOSE (TREE) SURVEY

DAVID PARK

6199 NW 10th STREET, MARGATE, FLORIDA

LAST DATE OF 6/12/17	DRAWN: DRL	CHECKED: RGC	BOOK/PAGE(S) 945/71-75
FIELD SURVEY			& DATA COLLECTOR

SEAL

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AN EMBOSSED
SURVEYOR'S SEAL

PROJECT

17-8548

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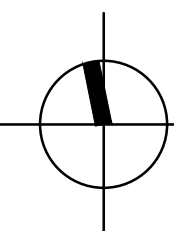
1 OF 1

DATE	BY
REVISION	
NO.	

TEL (954) 585-0897
www.stonersurveyors.com

STONER & ASSOCIATES, Inc.
SURVEYORS - MAPPERS
Florida Licensed Surveying
and Mapping Business No. 6633

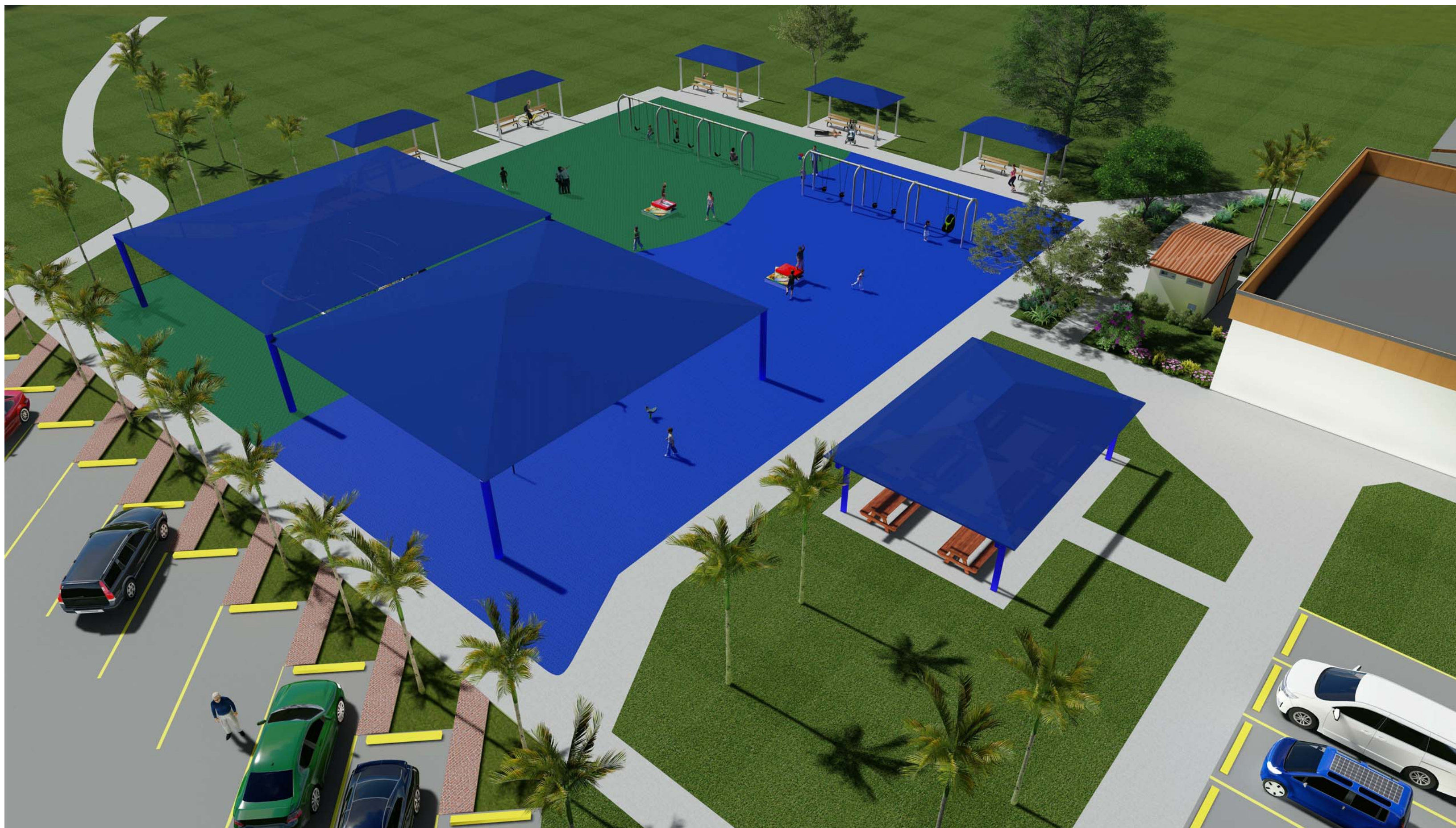
4341 S.W. 62nd AVENUE, TOWN OF DAVE, FLORIDA 33314



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DATE: 08.28.17

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DAVID PARK

6199 NW 10TH ST.
MARGATE, FL. 33063

CPZ ARCHITECTS, INC.

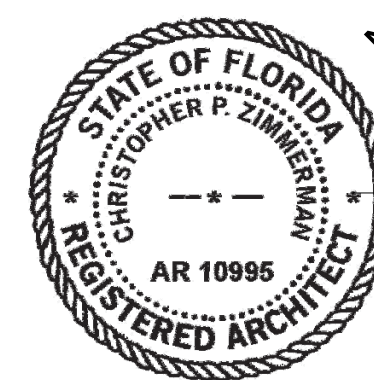
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #2600685 WWW.CFZARCHITECTS.COM



SITE PLAN RENDERING

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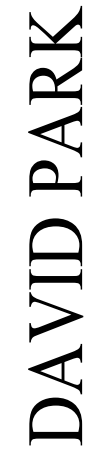
SP-2



CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO.
10,995
STATE OF FLORIDA

DATE: 08/28/17

CONSULTANT:

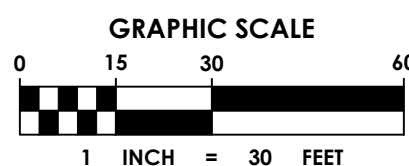


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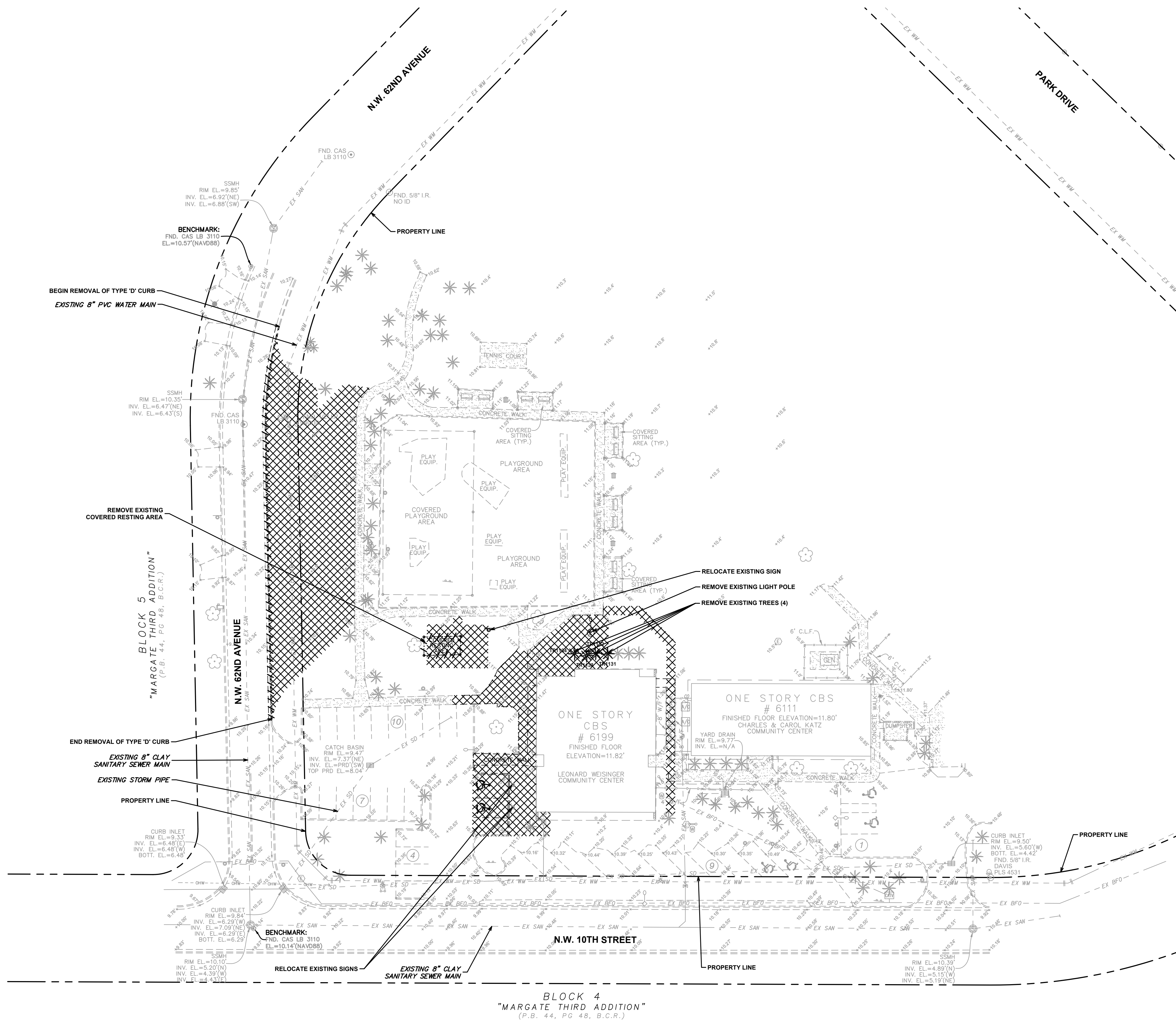


+/+/+/+/+/- REMOVE ITEM AS INDICATED ON PLAN

 AREA TO BE CLEARED FOR IMPROVEMENTS

1. EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY STONER AND ASSOCIATES PERFORMED ON 6/20/17. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
2. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
2. BEGINNING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
3. MINIMIZE VIBRATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. IF ANY EXISTING STRUCTURES, UTILITIES, OR OTHER ADJACENT OCCUPIED OR IN USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TRIBE AND AUTHORITIES HAVING JURISDICTION, PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFICWAYS.
5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
6. ENSURE SAFE PASSAGE OF SCOPED TRAFFIC THROUGH AREA.
7. PROTECT PEDESTRIAN TRAVEL SUCH AS WALKS, FENCE BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
8. PROTECT ON-SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
9. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. CURB ADJACENT TO DEMOLITION EXISTING BEFORE START OF DEMOLITION.
10. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DAMAGE TO REMAINING CONSTRUCTION, USE SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHIPPING. TEMPORARILY COVER OPENINGS TO REMAIN
11. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JOINTS WITH CONCRETE SAW. REMOVE CONCRETE IN SMALLER PORTIONS MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
12. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PRIOR TO UTILITIES, THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCAL GOVERNMENT RECORD OFFICE TO OBTAIN ALL NECESSARY UTILITIES.
13. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
14. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
15. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND CONTRACTOR SHALL MAINTAIN CONSTRUCTION OPERATIONS. CONTRACTOR SHALL USE CARE TO ENSURE EXISTING.



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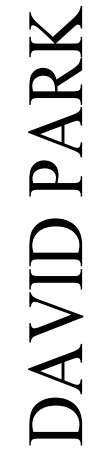
ANDREW SAVAGE P.E.
 LICENSE NO. 82408
 STATE OF FLORIDA

100% DRC SUBMITTAL

DATE: 06.23.17

CONSULTANT:

CONSULTANT:



6199 NW 10TH ST.
MARGATE, FL 33063

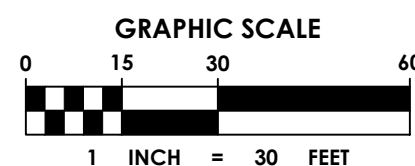
CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359

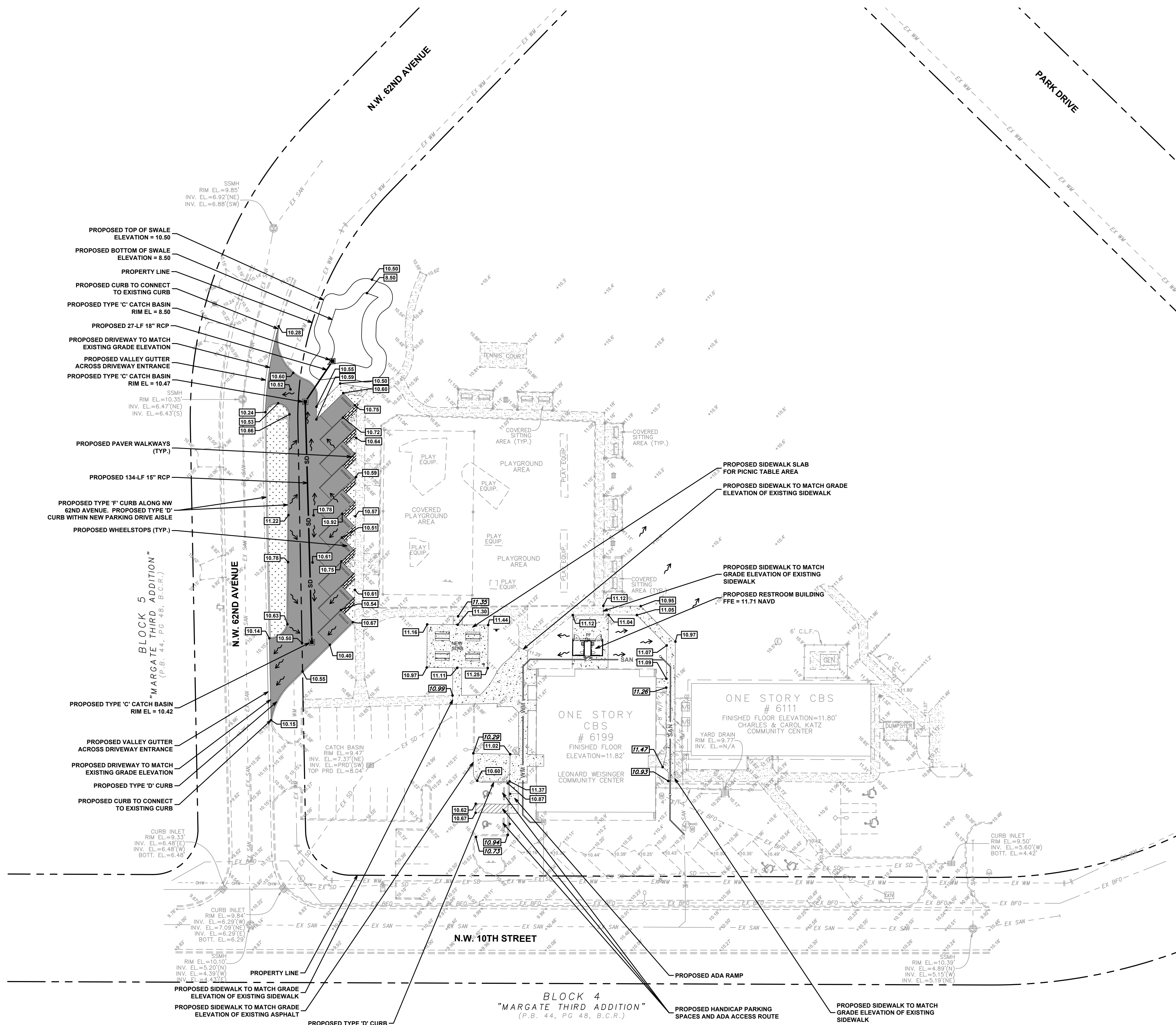


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1. MINIMUM FINISHED FLOOR ELEVATION +11.32' N.A.D. ACTUAL BUILDING ELEVATIONS WILL BE DETERMINED AND SUBMITTED FOR PERMITS PRIOR TO CONSTRUCTION.
2. ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
3. ALL INLETS SHALL BE TYPE "C" AND MANHOLES SHALL BE TYPE "P-7" AND, ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
4. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM 176-79, TABLE III, WALL B, OR LATEST EDITION. ALL RCP SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
5. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
6. ALL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
7. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
8. ALL EXISTING UTILITIES SHALL BE REPAIRED PRIOR TO ENGINEER'S ACCEPTANCE.
9. CONTRACTOR TO PROVIDE DETAILLED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SNALE ELEVATIONS TO DETERMINE GRADE, ALL EXISTING AND PROPOSED DRIVEWAY ELEVATIONS, EXISTING AND PROPOSED DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.



ANDREW SAVAGE P.E.
 LICENSE NO. 82408
 STATE OF FLORIDA

DATE: 06.23.17

100% DRC SUBMITTAL

CONSULTANT:

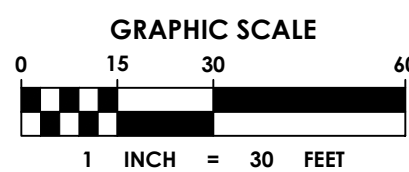


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 WM **PROPOSED WATER MAIN**
 PROPOSED WATER METER AND SERVICE LATERAL
 PROPOSED BACKFLOW PREVENTER
 SAN **PROPOSED SANITARY SEWER MAIN**
 EX WM **EXISTING WATER MAIN**
 EX SAN **EXISTING SANITARY SEWER MAIN**

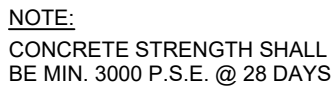
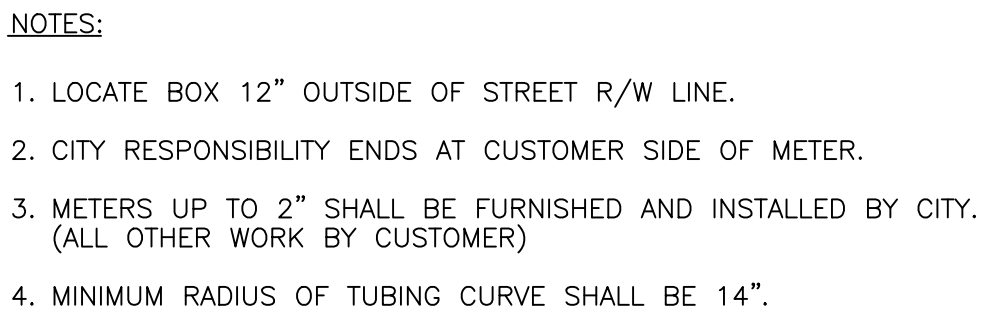
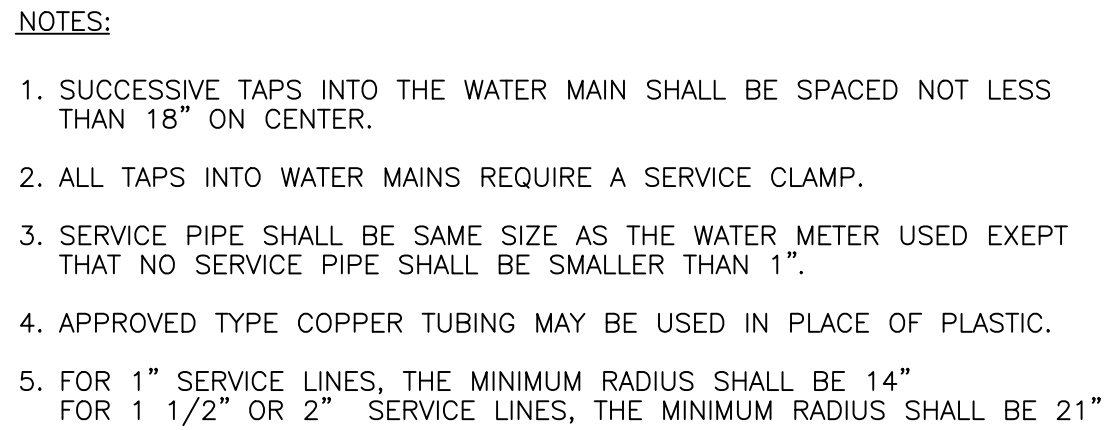
1. CONTRACTOR SHALL PLAN ALL UTILITY CROSSINGS TO CONFORM HORIZONTAL AND VERTICAL SEPARATIONS PERMITTED TO CONSTRUCTION.
2. ALL EXISTING LINES SHALL MAINTAIN A MINIMUM SIX (6) FOOT LATERAL SEPARATION FROM OBSTRUCTIONS (I.E. CULVERTS, STRUCTURES, ETC.) AND A MINIMUM TEN (10) FOOT CLEARANCE FROM TREES. FIRE HYDRANTS SHALL HAVE A 7.5' CLEARANCE FROM OBSTRUCTIONS.
3. WATER MAIN SHALL CROSS OVER DRAINAGE & SEWER LINES UNLESS OTHERWISE SPECIFIED IN PLAN. 10' MINIMUM HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER MAIN AND FORCE MAIN.
4. ALL EXISTING WATER MAINS AND FIRE HYDRANTS THAT ARE TO BE REMOVED SHALL REMAIN ACTIVE UNTIL A CLEARANCE LETTER HAS BEEN ISSUED AND THE NEW WATER MAINS AND FIRE HYDRANTS ARE ACTIVATED.
5. CONTRACTOR TO CONDUCT PRELIMINARY SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO TOP OF PIPE ELEVATION, TOP OF ALL FITTINGS, ETC.
6. ALL NEW LATERALS SHALL BE INSTALLED WITH JOINTS WITH EPOXY LINING IF GROUND COVER IS LESS THAN 2 FEET, OTHERWISE THE SEWER LATERAL WILL BE SDR 26 PVC.



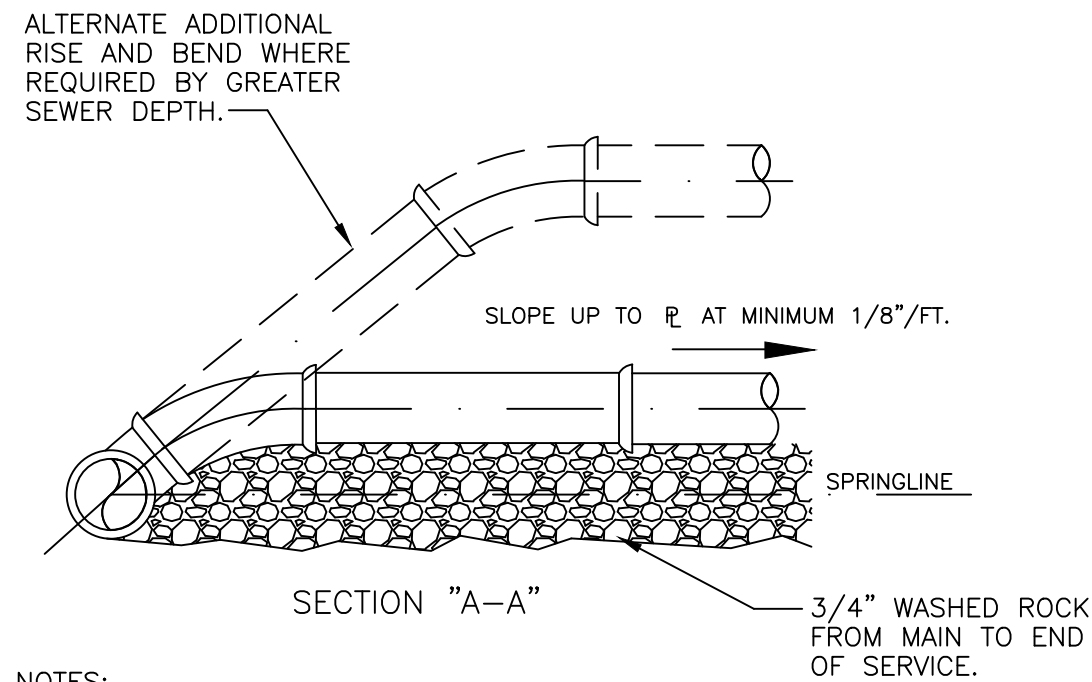
DATE: 06.23.17

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1. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
2. WHERE SANITARY SEWERS OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (D.I.P.) AT THE CROSSING. SUFFICIENT LENGTHS OF D.I.P. MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSING.
3. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON CROSSING).
4. WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
5. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF D.I.P. AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF D.I.P. WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
8. ALL D.I.P. SHALL BE CLASS 50 OR HIGHER, ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.



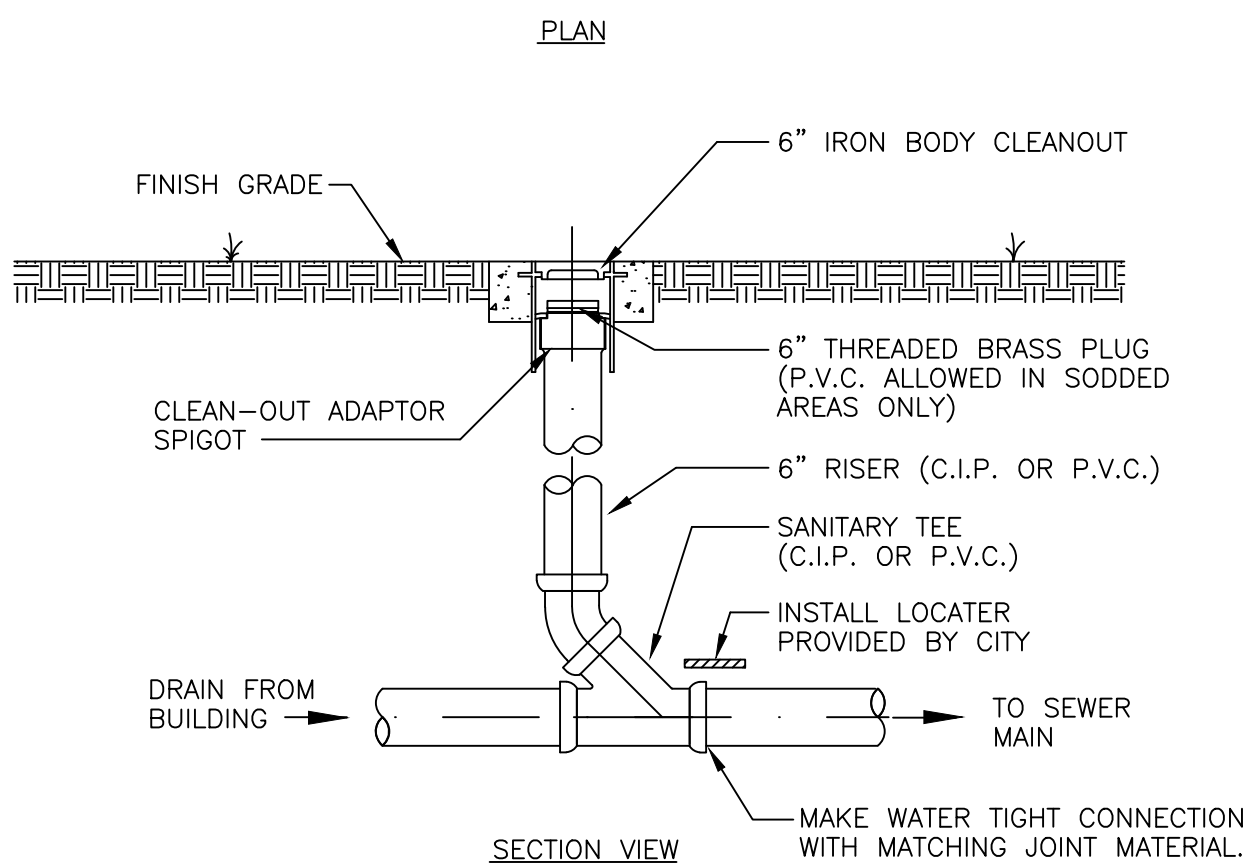
N.T.S. CITY OF MARGATE



- NOTES:
1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
 2. DOUBLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
 3. USE RISER CONNECTION WHEN INV. OF SEWER IS MORE THAN 7'-0" DEEP.

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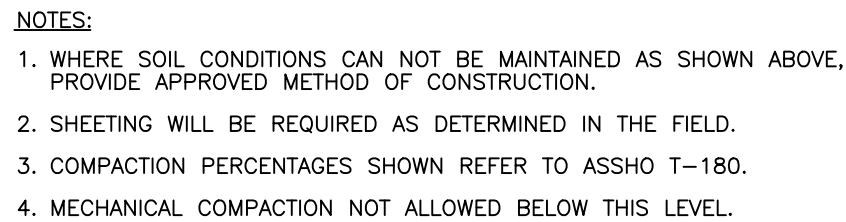
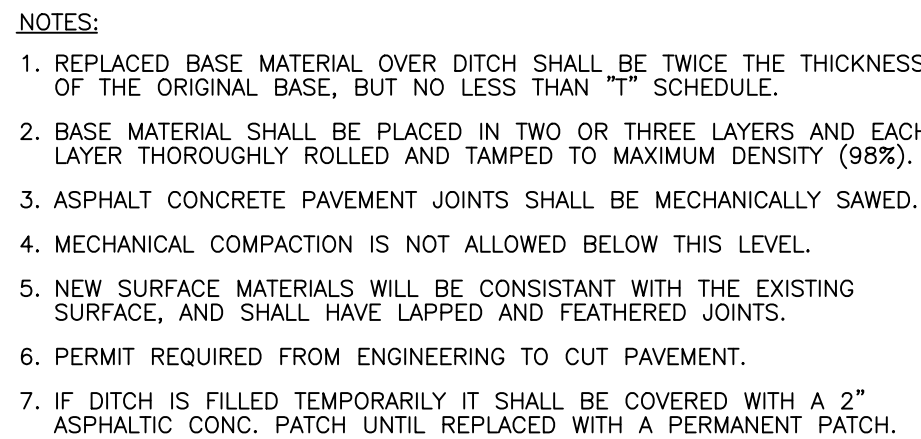
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ANDREW SAVAGE P.E.
 LICENSE NO. 82408
 STATE OF FLORIDA

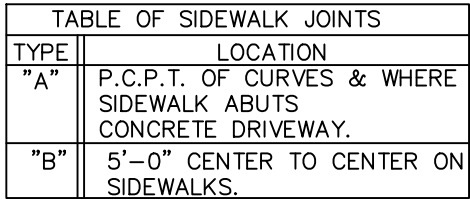
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DATE: 06.23.17

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1. CONCRETE TO BE CLASS 1, 3000 P.S.I.
2. THE USE OF REINFORCEMENT IS NOT PERMITTED
3. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
4. RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS IN ACCORDANCE WITH FDOT INTERSECT 304.
5. FOR VERTICAL CURBS, THE MAXIMUM SLOPE SHALL NOT BE MORE THAN 1/2" PER 1'-0"
6. THE VERTICAL DEVIATION FOR A NEW MAINTENANCE ACCESS STRUCTURES COVER SHALL NOT BE MORE THAN 1/4"
7. SUBGRADE MATERIAL SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-99.
8. STAMPED CONCRETE IS NOT ALLOWED IN LIEU OF TRUNCATED DOMES.
9. SEE HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION APPROVED PRODUCT LIST FOR ACCEPTABLE MATERIALS FOR TRUNCATED DOMES.
10. WHEN THE REMOVAL OF CURBS, CURBS OR GUTTERS IS NECESSARY FOR CONSTRUCTION, THEY SHALL BE REMOVED IN FULL SECTIONS OR A MINIMUM OF FIVE (5) FEET IN LENGTH, AND ALL BROKEN EDGES CUT STRAIGHT, CLEAN AND SMOOTH BY APPROPRIATE MEANS; IF THE ROAD PAVEMENT IS DAMAGED DURING THE REMOVAL, REPAIR SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAYS OF THE BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION MINIMUM STANDARDS.

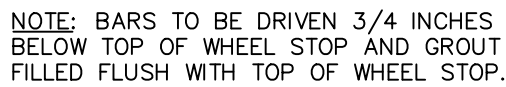
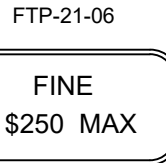
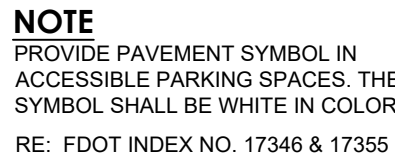


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ANDREW SAVAGE P.E.
 LICENSE NO. 82408
 STATE OF FLORIDA

[illegible]

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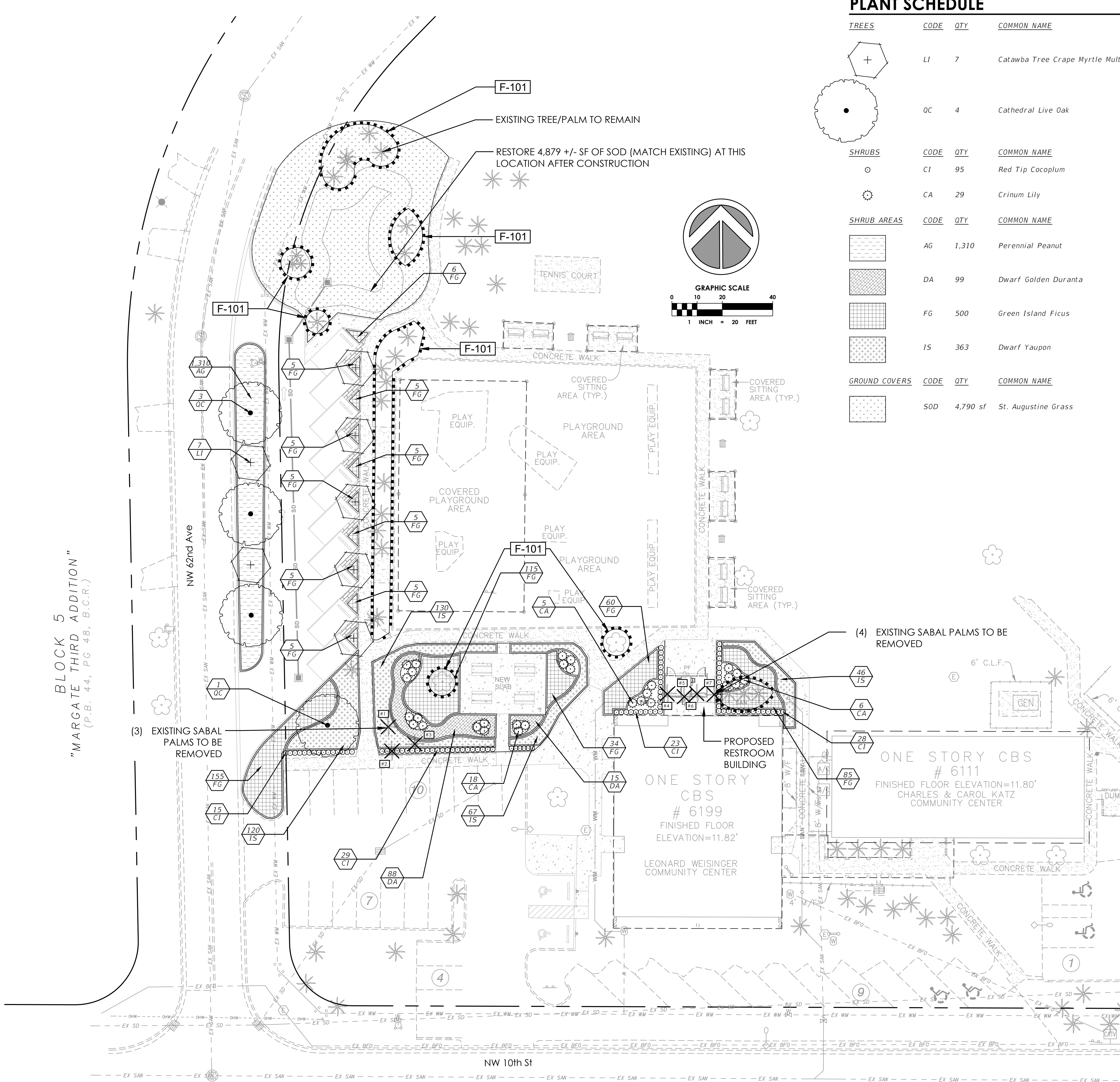
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SCALE	AS NOTED
PROJECT NO. 1559A	
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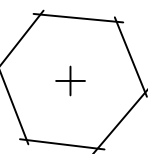
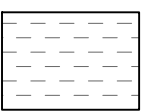
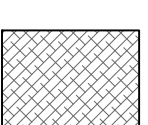
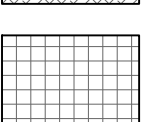
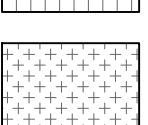
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DATE: 06.23.17

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PLANT SCHEDULE

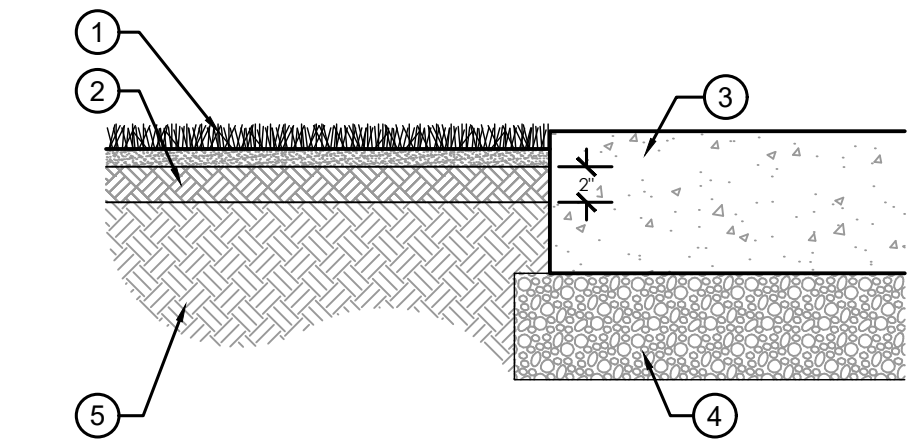
TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS	
	LI	7	Catawba Tree Crape Myrtle Multi-Trunk	Lagerstroemia indica `Catawba`	FG	5-6' OAH	No	Multi-Stem, Matched	
	QC	4	Cathedral Live Oak	Quercus virginiana `Cathedral`	FG	18"-20" OAH., 8-10" SPR., 5" CAL.	Yes	Category 1 Mitigation Tree	
SHRUBS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	SPACING	REMARKS
	CI	95	Red Tip Cocoplum	Chrysobalanus icaco `Red Tip`	3 gal	24" HT, 24" SPRD	Yes	24" o.c.	
	CA	29	Crinum Lily	Crinum augustum	10 gal	3' HT, 3' SPRD	No	48" o.c.	
SHRUB AREAS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	SPACING	REMARKS
	AG	1,310	Perennial Peanut	Arachis glabrata	See Size	6"x6"	No	12" o.c.	
	DA	99	Dwarf Golden Duranta	Duranta repens aurea	3 gal	18" HT, 18" SPRD	No	24" o.c.	
	FG	500	Green Island Ficus	Ficus microcarpa `Green Island`	See Size	18"x18"	No	24" o.c.	
	IS	363	Dwarf Yaupon	Ilex vomitoria `Stokes Dwarf`	3 gal	12" HT, 12" SPRD	Yes	24" o.c.	
GROUND COVERS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS	
	SOD	4,790 sf	St. Augustine Grass	Stenotaphrum secundatum	Sod				

PLANT DISPOSITION CHART/CALC'S

Tree Number	Botanical / Common Name	Trunk Diameter (in)	Canopy Spread (ft)	Overall Height (ft)	Clear Trunk (ft)	Condition Rating (%)	Disposition	Specimen Tree	Tree Canopy Replacement (SF)	Tree Appraised Value (Specimen Only)
1	Sabal Palmetto - Cabbage Palm	14			18	100	Remove			
2	Sabal Palmetto - Cabbage Palm	12			16	100	Remove			
3	Sabal Palmetto - Cabbage Palm	11			14	100	Remove			
4	Sabal Palmetto - Cabbage Palm	14			18	100	Remove			
5	Sabal Palmetto - Cabbage Palm	12			16	100	Remove			
6	Sabal Palmetto - Cabbage Palm	11			14	100	Remove			
7	Sabal Palmetto - Cabbage Palm	11			14	100	Remove			
		85		= SF REMOVED						
SEC.23-20 TREE REMOVAL (NON-SPECIMEN TREES)										
CITY OF MARGATE, FL										
TOTAL SF OF NON-SPECIMEN TREE CANOPY PROPOSED FOR REMOVAL										
				37						
CATEGORY TREE	CREDIT (SF)	PROPOSED CANOPY PROVIDED		TOTAL (SF) REMOVED						
CATEGORY 1	300	300		85			-1 CAT. 1 TREE PROVIDED ON PLAN			
CATEGORY 2	150	0		0						
CATEGORY 3	100	0		0						
CATEGORY 4	50	0		0						
TOTAL NON- SPECIMEN CANOPY REPLACEMENT REQUIRED (SF)										
				85						
TOTAL CANOPY REPLACEMENT PROVIDED (SF)										
				300						
NET DIFFERENCE										
				215						
GENERAL NOTES: TREE REPLACEMENT REQUIREMENTS										
*CATEGORY 1 MIN 12' OAH 2" DBH										
*CATEGORY 2 MIN 8' OAH										
*CATEGORY 3 MIN. 6' OAH										
*CATEGORY 4 REPLACEMENT PALM TREES, MIN 6' CT/OR GW										

REFERENCE NOTES SCHEDULE

SYMBOL	FENCE DESCRIPTION	QTY	DETAIL
F-101	TREE PRESERVATION FENCING	607 lf	



1 SOD PLANTING
1 1/2" = 1'-0"

100% DRC SUBMITTAL

ERIC HARRISON, R.L.A.
LICENSE NO. 6667129
STATE OF FLORIDA

DATE: 08.28.17

NO.	REVISION	DATE
001	SUBMITTAL	08-28-17

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DRAWING TITLE:

LANDSCAPE PLAN

DRAWN	
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DATE	06.23.17
SCALE	AS NOTED
PROJECT NO.	1559A
SHEET:	

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DRAWING TITLE:

IRRIGATION PLAN

PLAN

DRAWN

CHECKED

DATE 06.23.1

SCALE AS NOTE

PROJECT NO. 1559

SHEET:

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ERIC HARRISON, RLA
 LICENSE NO. 6667129
 STATE OF FLORIDA

LICENSE NO. 6667129
STATE OF FLORIDA

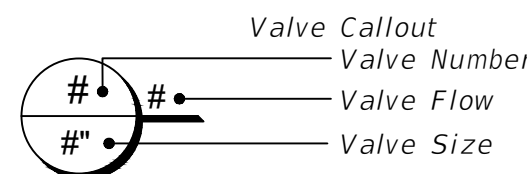
STATE OF FLORIDA

DATE: 08.28.17

IRRIGATION SCHEDULE

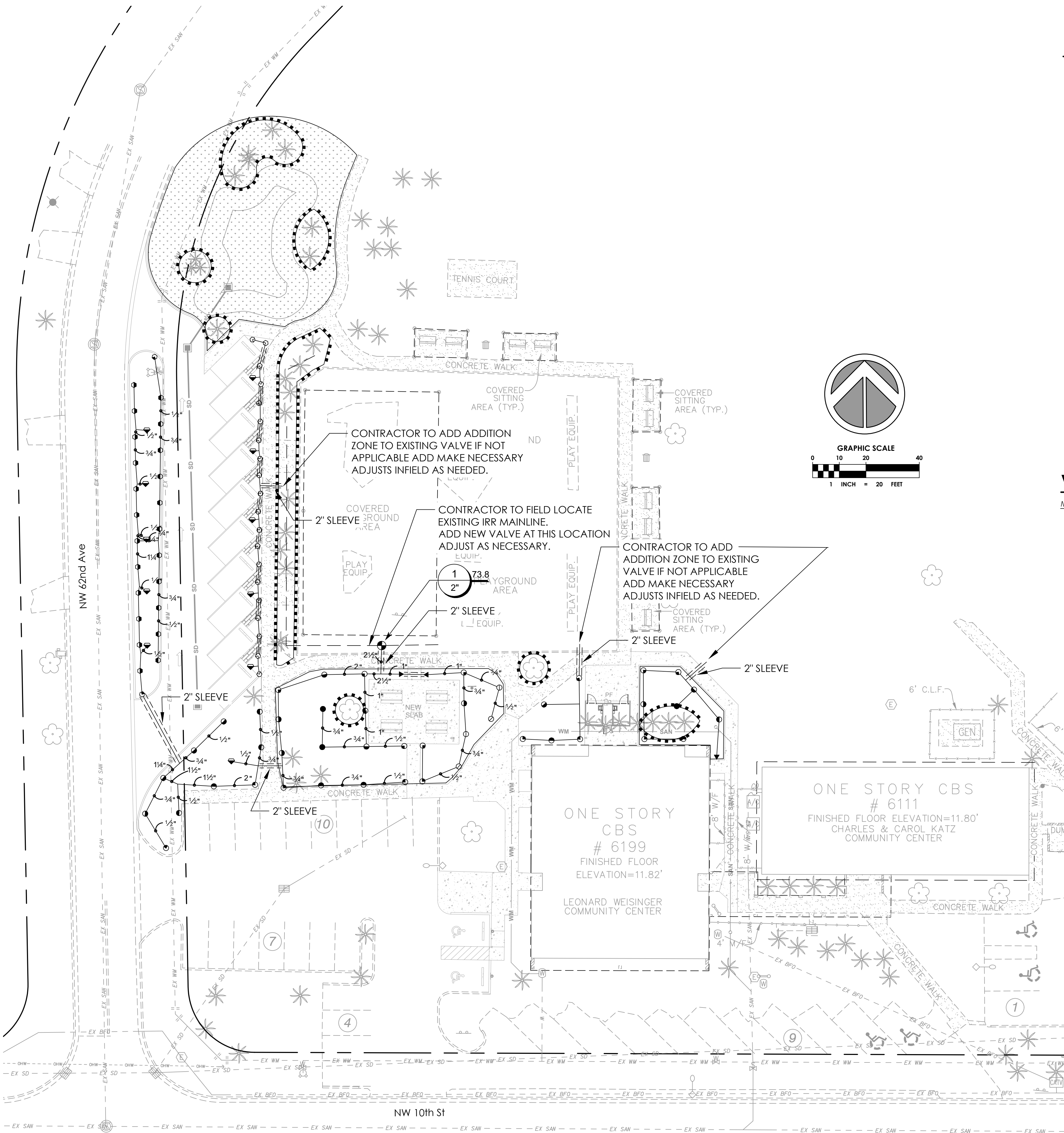
<i><u>SYMBOL</u></i>	<i><u>MANUFACTURER/MODEL</u></i>	<i><u>QTY</u></i>	<i><u>ARC</u></i>	<i><u>PSI</u></i>	<i><u>GPM</u></i>	<i><u>RADIUS</u></i>
◀	Rain Bird RD-06-S-NP-U 15 Strip Series	3	EST	30	0.61	4'x15'
⊗	Rain Bird RD-06-S-NP-U U8 Series	20	90	30	0.26	8'
⦿	Rain Bird RD-06-S-NP-U U10 Series	23	180	30	0.82	10'
⦿	Rain Bird RD-06-S-NP-U U10 Series	2	90	30	0.41	10'
①	Rain Bird RD-06-S-NP-U U12 Series	4	180	30	1.30	12'
●	Rain Bird RD-06-S-NP-U U15 Series	3	360	30	3.70	15'
⦿	Rain Bird RD-06-S-NP-U U15 Series	22	180	30	1.85	15'
⦿	Rain Bird RD-06-S-NP-U U15 Series	16	90	30	0.92	15'

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>
	Rain Bird PEB-NP-HAN 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability. Globe Configuration. With Purple Handle for Non-Potable Water Use.	1
=====	Irrigation Lateral Line: PVC Class 200 SDR 21	1,131 l.f.
=====	Irrigation Mainline: PVC Class 160 SDR 26-NP	150.3 l.f.
=====	Pipe Sleeve: PVC Schedule 40	143.0 l.f.



VALVE SCHEDULE

<u>NUMBER</u>	<u>MODEL</u>	<u>SIZE</u>	<u>TYPE</u>	<u>GPM</u>	<u>WIRE</u>
1	Rain Bird PEB-NP-HAN	2"	Turf Spray	73.80	



100% DRC SUBMITTAL

1. GENERAL

1. GENERAL

- THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
- 1.2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
- 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- 1.4. CONTRACTOR SHALL BE RESPONSIBLE TO DISRUPT AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
- 1.5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
- 1.6. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.
2. SCOPE OF WORK
- 2.1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, CONTACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
- 2.2. ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS, ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A HANDBOOK PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.
- 2.3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 2.4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 2.5. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
- 2.6. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. SUBMITTALS
- 3.1. THE CONTRACTOR SHALL PROVIDE FOR APPROVAL PRIOR TO INSTALLATION, MANUFACTURER'S PRODUCT DESCRIPTION SHEETS/SPECIFICATIONS FOR ALL MAJOR COMPONENTS OF THE IRRIGATION SYSTEM. MODEL NUMBERS SHALL BE HIGHLIGHTED OR CIRCLED.
- 3.2. NO SUBSTITUTIONS OR DEVIATIONS FROM THE SPECIFIED BRANDS, MODELS, OR SIZES SHALL BE PERMITTED, EXCEPT WITH WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF RECORD.
- 3.3. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK. DESIGN CHANGES, SUBSTITUTIONS, OR DEVIATIONS NOT APPROVED BY THE LANDSCAPE ARCHITECT OF RECORD WILL RESULT IN REJECTION AND REPLACEMENT OF MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
4. POST CONSTRUCTION DOCUMENTATION
- 4.1. DOCUMENTATION:
- 4.1.1. PROVIDE THE MANUFACTURER'S RECOMMENDED OPERATING INSTRUCTIONS FOR ALL MAJOR COMPONENTS INCORPORATED INTO THE IRRIGATION SYSTEM.
- 4.1.2. PROVIDE SYSTEM OPERATION MANUALS, MAINTENANCE SCHEDULES, RECOMMENDED SCHEDULE OF OPERATION INCLUDED AVERAGE APPLICATION RATES WITH SEASONAL ADJUSTMENTS FOR EACH ZONE.
- 4.1.3. PROVIDE ALL REQUIRED TESTING AND INSPECTION CERTIFICATES TO THE OWNER OR OWNER'S REPRESENTATIVE.
- 4.2. AS-BUILT DRAWINGS: PROVIDE RECORD DRAWINGS AND PLANS SHOWING ALL CHANGES IN THE DESIGN TO INDICATE THE ACTUAL INSTALLATION AND LOCATION OF ALL EQUIPMENT AND MATERIALS. THE FOLLOWING SPECIFIC ITEMS MUST BE INCLUDED:
- 4.2.1. LOCATION AND SIZE OF MAINLINE PIPING, LATERAL PIPING, AND PIPE SLEEVING.
- 4.2.2. ISOLATION VALVES
- 4.2.3. REMOTE CONTROL VALVE LOCATIONS, SIZES, NUMBER, AND AREA OF COVERAGE SHOWN USING DIFFERENT COLORS.
- 4.2.4. SPLICE BOXES AND LOW VOLTAGE WIRING PATH.
- 4.2.5. CONTROLLER AND RAIN SHUTOFF DEVICES.
- 4.2.6. POINT OF CONNECTION INCLUDING THE TYPE OF WATER SOURCE, SIZE, FLOW RATE, AND OPERATING PRESSURE.
- 4.2.7. DATE AND SCALE.
- 4.2.8. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER.
- 4.2.9. THE AS-BUILT DRAWINGS SHALL BE SIGNED BY A FLORIDA REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER.
- 4.3. CONTRACTOR SHALL FURNISH FIVE EXTRA UNITS OF EACH TYPE OF POPUP SPRAY AND EMITTER THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. INCLUDE TOOLS TO SERVICE THESE PRODUCTS.
5. FINAL ACCEPTANCE
- 5.1. FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.
- 5.1.1. FINAL WALK-THROUGH AND CORRECTION OF ALL PUNCH LIST ITEMS.
- 5.1.2. COMPLETION AND ACCEPTANCE OF AS-BUILT RECORD DRAWINGS.
- 5.1.3. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
6. GUARANTEE
- 6.1. FULLY WARRANT THE LANDSCAPE IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE WRITTEN FINAL ACCEPTANCE.
- 6.2. DURING THE WARRANTY PERIOD, ENFORCE MANUFACTURER'S AND SUPPLIER'S WARRANTIES, MALFUNCTIONS, DEFICIENCIES, BREAKS, DAMAGES, DISREPAIR OR OTHER DISORDERS DUE TO MATERIALS, WORKMANSHIP, OR INSTALLATION BY THE CONTRACTOR AND HIS SUPPLIERS SHALL BE IMMEDIATELY AND PROPERLY CORRECTED.
- 6.3. REPAIR DAMAGES PROMPTLY WHICH ARE CAUSED BY SYSTEM MALFUNCTION.
7. POINT OF CONNECTION (P.O.C.)
- 7.1. THE POC IS ASSUMED TO BE A MUNICIPAL SOURCE ON A SEPARATE WATER METER. CONTRACTOR TO VERIFY THAT THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 60 GPM AT 45 PSI. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION.
- 7.2. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.
8. PIPING
- 8.1. MAINLINE PIPE: PVC SCHEDULE 40, NON-GASKETED, SOLVENT WELD, WITH PVC SCHEDULE 40 FITTINGS.
- 8.2. LATERAL PIPE: PVC SCHEDULE 40, NON-GASKETED, SOLVENT WELD, WITH PVC SCHEDULE 40 FITTINGS.
- 8.3. THREADED PIPE: PVC SCHEDULE 80.
- 8.4. PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROPERTY BOUNDARY.
- 8.5. PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
- 8.6. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
- 8.7. CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.
- 8.8. PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUIVALENTS.
- 8.9. MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
- 8.10. LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.
9. LAYOUT
- 9.1. LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
- 9.2. STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE

100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.

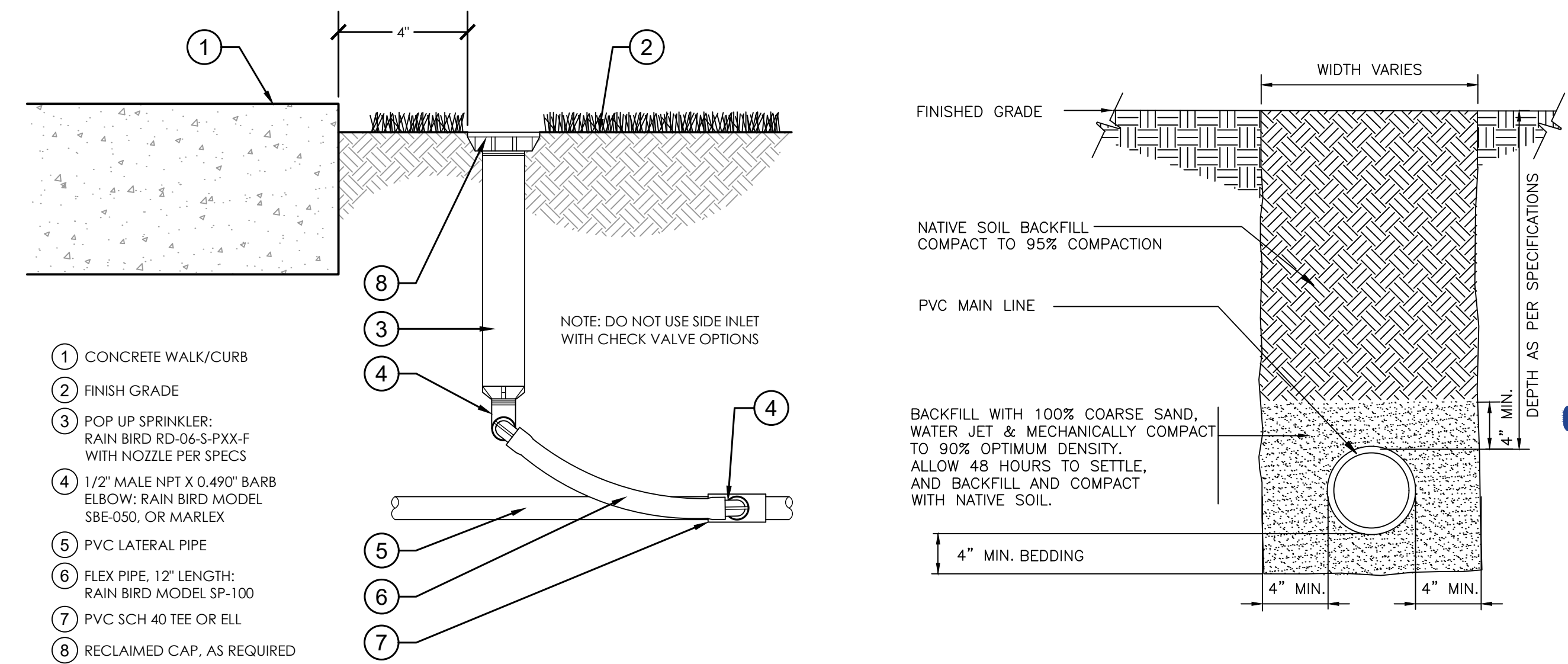
3. SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURRED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURRED ROADWAYS.
- 9.4. SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDCAPPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC RISERS.
- 9.5. LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES WITHIN A SPORTS FIELD OR DESIGNATED PLAY AREA.
8. ELECTRICAL POWER SUPPLY
 - 8.1. ELECTRICAL SUPPLY FOR PUMP AND CONTROLLER SHALL TO BE PROVIDED BY THE IRRIGATION CONTRACTOR. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF AND CONNECTION TO AVAILABLE SITE POWER SUPPLY FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN THE 100% IRRIGATION PLANS.
 - 8.2. ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY AND ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS.
9. CONTROL WIRING
 - 9.1. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
 - 9.2. ALL CONTROL WIRING SHALL BE PLACED IN PVC SCHEDULE 40 GRAY ELECTRICAL CONDUIT, AT TURNS IN DIRECTION UTILIZE JUNCTION BOXES.
 - 9.3. TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY-DBR CONNECTORS.
 - 9.4. NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.
 - 9.5. WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
 - #14 WHITE FOR COMMON
 - #14 SPARE BLACK COMMON
 - #14 RED FOR HOT WIRES
 - #14 SPARE YELLOW HOT WIRE
10. CONTROLLER GROUNDING
 - 10.1. CONTRACTOR TO UTILIZE 4"X8X5/8" COPPER GROUNDING PLATES, 5/8X10" COPPER CLAD GROUNDING RODS, "ONE STRIKE" CAD WELLS AT ALL CONNECTION POINTS, #6 BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.

11. VALVES

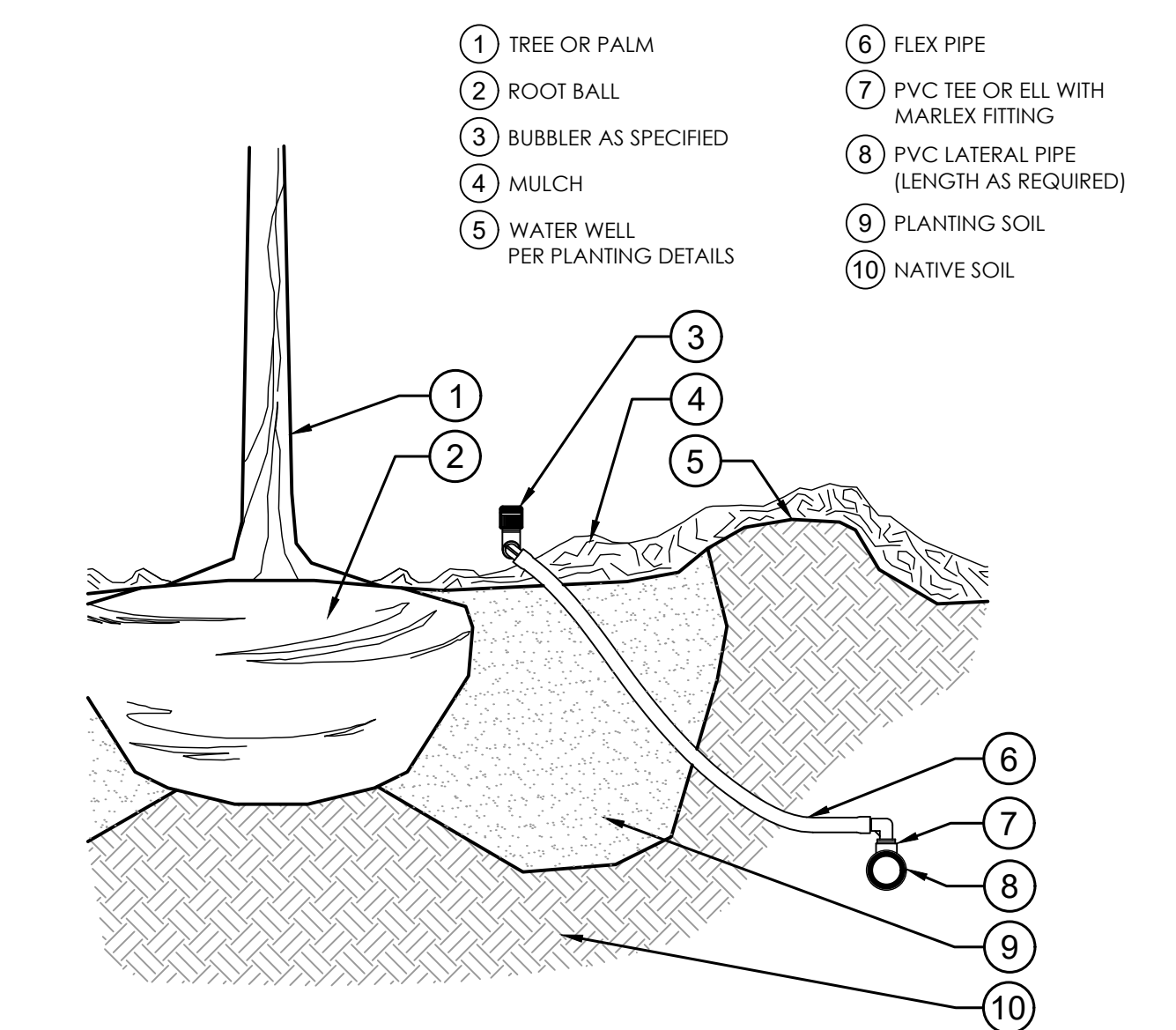
- 11.1. SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.
- 11.2. ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.
- 11.3. USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE BOX.
12. EQUIPMENT
 - 12.1. BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.
 - 12.2. ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS.
 - 12.3. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE LAWS.
13. TRENCHING
 - 13.1. EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL SHEET.
 - 13.2. PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNERS REPRESENTATIVE.
14. INSTALLATION
 - 14.1. CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE, THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING. THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESNT REcede FROM THE FITTING. IF THE PIPE ISNT AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.
 - 14.2. PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURERS SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.
15. BACKFILLING
 - 15.1. THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRENCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.
 - 15.2. CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2" ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

16. TESTING & FLUSHING

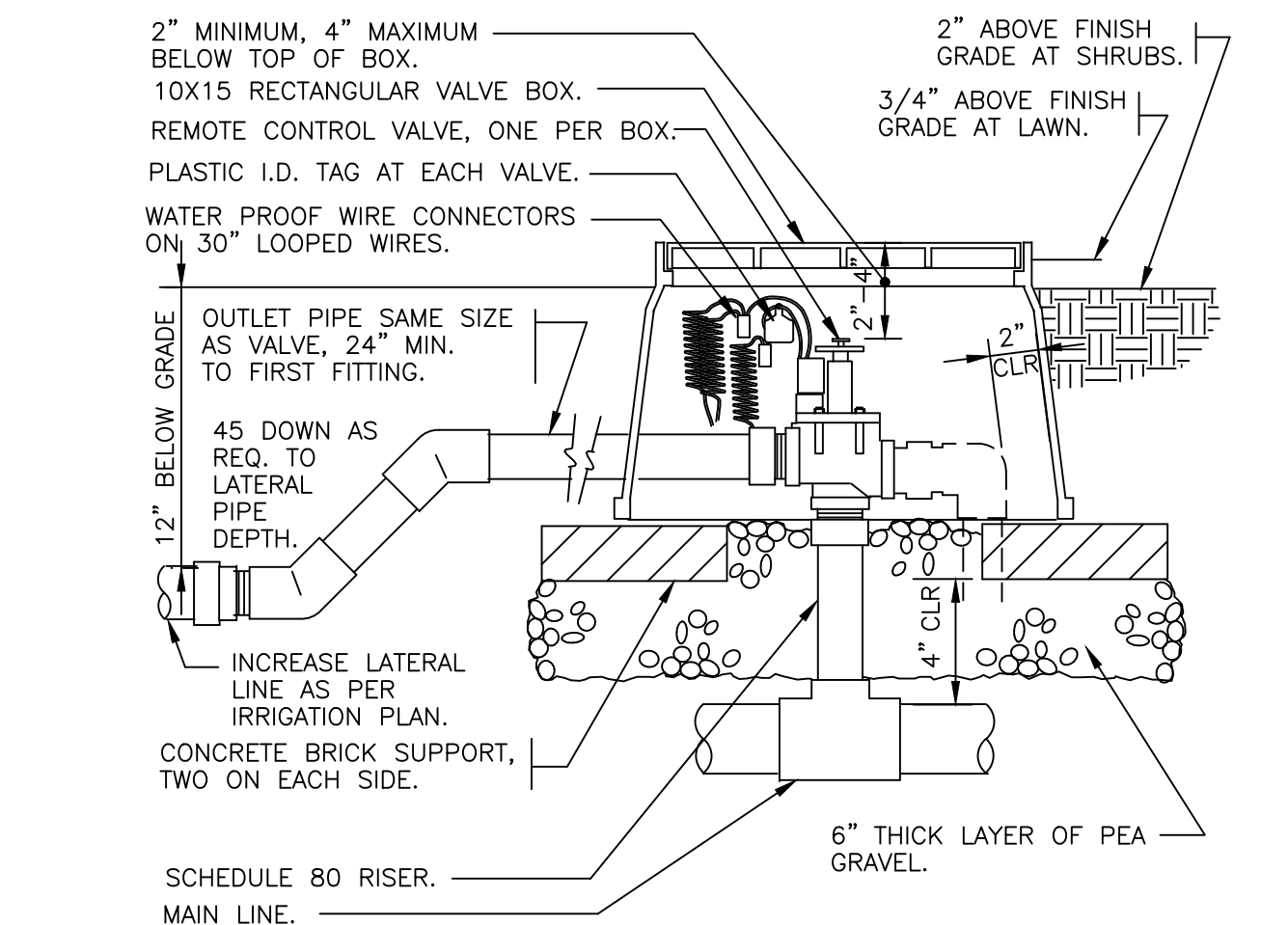
- 16.1. LEAKAGE TESTING
- 16.1.1. REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 125 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAGE LOCATIONS; THE GAGED LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE WITH THE SAME RESPECTIVE PRESSURE. MONITOR THE GAGES FOR THREE HOURS.
- 16.1.2. PVC SOLVENT-WELD PIPE CONNECTIONS SHALL HAVE NO LEAKS; THE GASKETED LAYOUT SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX "P". REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME.
- 16.1.3. REPAIR ALL LEAKS AND RETEST MAINLINE PIPE UNTIL THE TEST IS SUCCESSFUL.
- 16.1.4. LATERAL PIPE MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.
- 16.2. FLUSHING:
- 16.2.1. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.
- 16.2.2. WASH SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.
- 16.3. OPERATIONAL TESTING:
- 16.3.1. UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVES. RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR IN THESE CASES. CALCULATE THE REQUIRED RUN TIMES.
- 16.3.2. THE MAINLINE AND LATERAL LINES MUST MEET THEIR RESPECTIVE TESTS AND THE SYSTEM IS COMPLETELY OPERATIONAL. A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER OR HIS/HER REPRESENTATIVE THAT PROPER COVERAGE IS OBTAINED AND THAT THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THE DEMONSTRATION REQUIRES THAT EACH ZONE BE TURNED ON IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION WILL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.


$$3'' = 1'-0''$$

328403.13-03

 $1\ 1/2'' = 1'-0''$

328403.53-06



1

 $1\ 1/2'' = 1'-0''$

328406.13-01

100% DRC SUBMITTAL

[illegible]

CONSULTANT:



DAVID PARK

6199 NW 10TH ST.

CPZ ARCHITECTS, INC.

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PHONE: (954) 792-8525 FAX: (954) 337-0359
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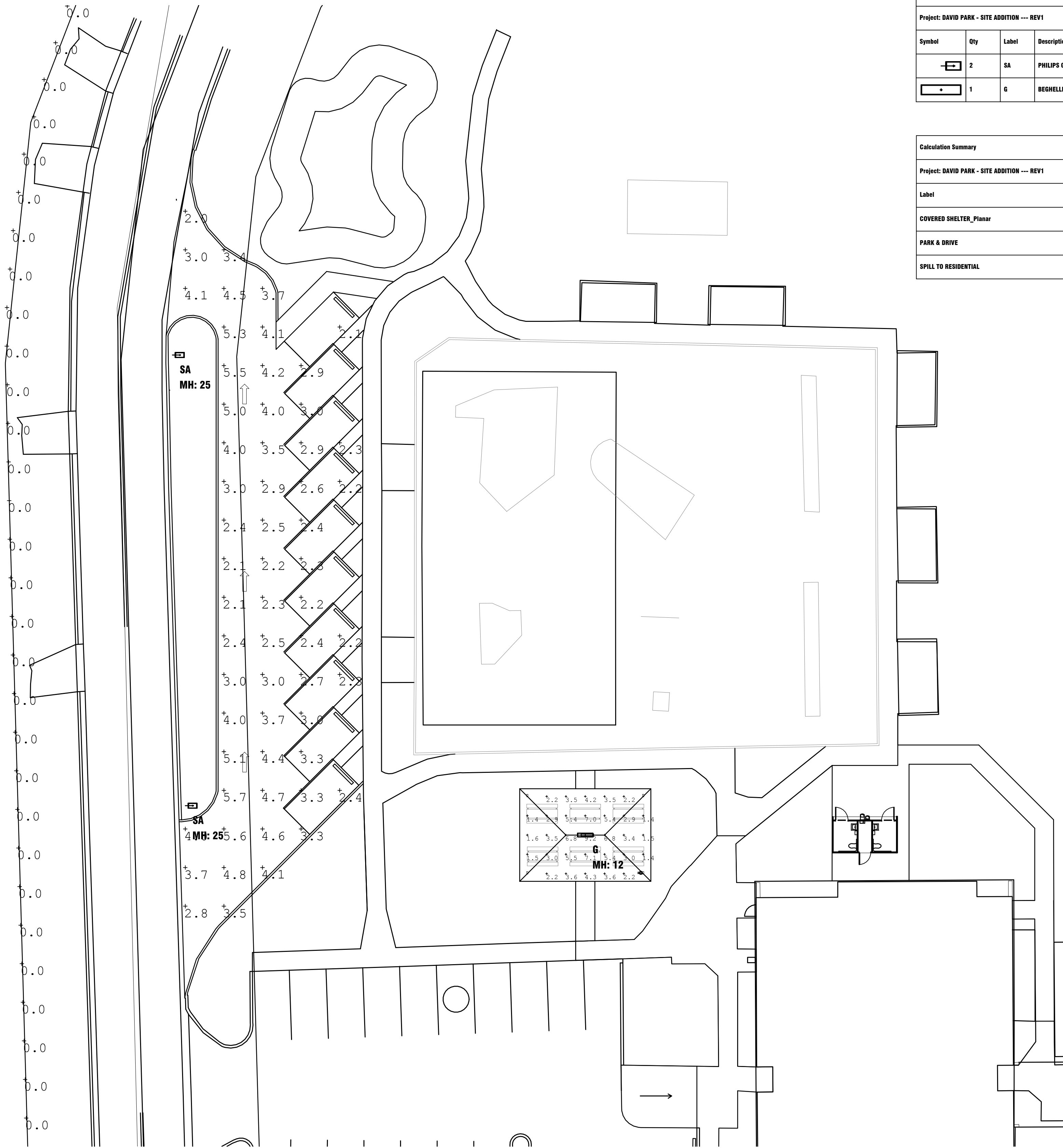
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PROJECT NO.	1559A
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ERIC HARRISON, RLA

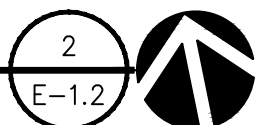
ERIC HARRISON, RLA
 LICENSE NO. 6667129
 STATE OF FLORIDA

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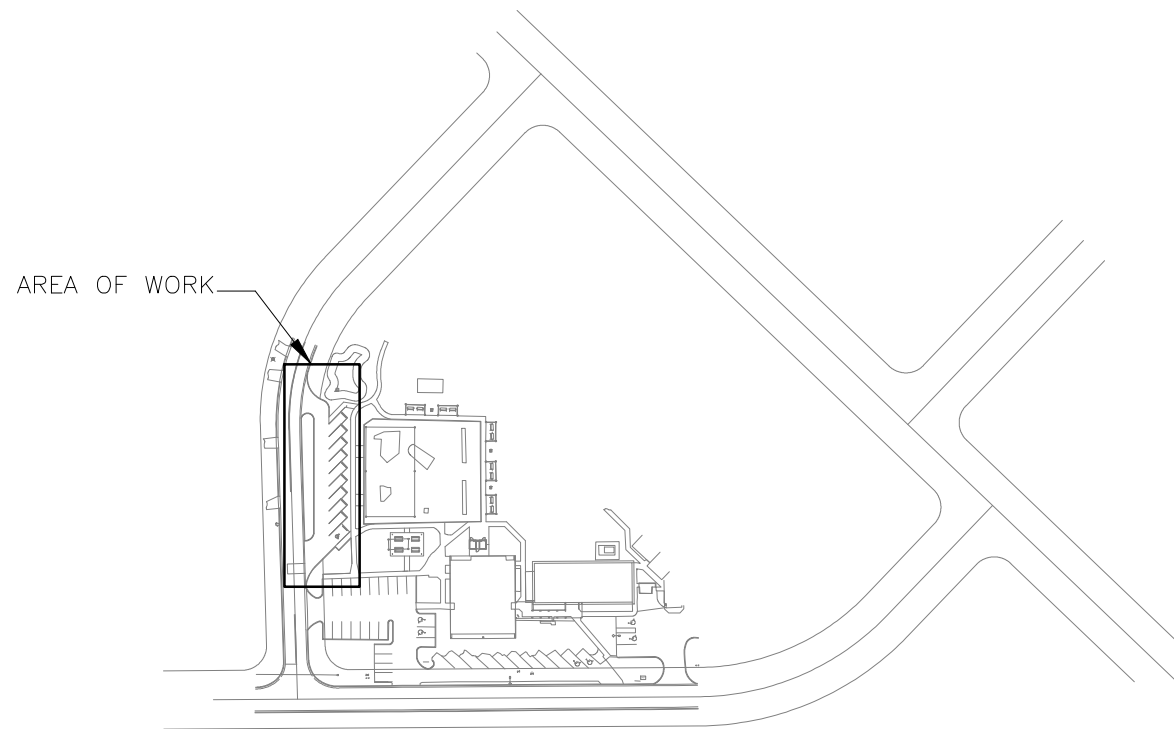


ELECTRICAL PHOTOMETRICS
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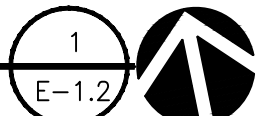


Luminaire Schedule								
Project: DAVID PARK - SITE ADDITION --- REV1								
Symbol	Qty	Label	Description	LLD	LDD	LLF	Lum. Watts	Total Watts
	2	SA	PHILIPS GARDCO ECF-I-9BL-1A-NW-62-3-HIS POLE MOUNT 25' A.F.G.	0.900	0.900	0.810	313.6667	627.3334
	1	G	BEGHELLI RS100 LED - PARKING GARAGE RS100LEDPGHT00WWT35 AT SURFACE 12FT AFG	1.000	1.000	0.850	67.848	67.848

Calculation Summary					
Project: DAVID PARK - SITE ADDITION --- REV1					
Label	Avg	Max	Min	Avg/Min	Max/Min
COVERED SHELTER_Planar	3.79	8.2	1.4	2.71	6.57
PARK & DRIVE	3.34	5.7	2.0	1.87	2.85
SPILL TO RESIDENTIAL	0.00	0.0	0.0	N.A.	N.A.



KEY PLAN
SCALE: N.T.S.



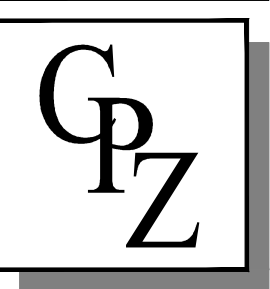
NO.	REVISION	DATE
DRC	SUBMITTAL	08.28.17

CONSULTANT:



DAVID PARK
6199 NW 10TH ST.
MARGATE, FL 33063

CPZ ARCHITECTS, INC.

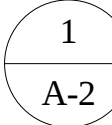


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PHOTOMETRICS

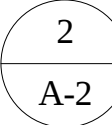
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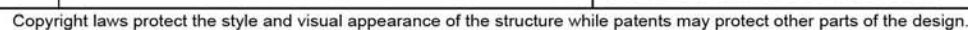
CONSULTANT:

SCALE: 1/8" = 1'-0"

ROOF COLOR: ROMAN BLUE



SCALE: 1/4" = 1'-0"



STATE OF FLORIDA
CHRISTOPHER P. ZIMMERMANN
— * —
REGISTERED ARCHITECT
AR 10995

DATE: 08/28/17

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CPZ

DRAWING TITLE:

PAVILLION STRUCTURE

DRAWN: Autho

CHECKED: Checker

DATE: 08/28/17

SCALE: As indicated

PROJECT NO. 1559A

SHEET:

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