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City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

Call Sunshine One-Call for FREE 800.432.4770 or Visit www.callsunshine.com



SITE DEVELOPMENT PLANS FOR MADISON STREET PARK CHANNEL DISTRICT

CONTRACT NO. 18-C-00036

HILLSBOROUGH COUNTY, FLORIDA

A DEVELOPMENT BY
CITY OF TAMPA

LEGEND

ABBREVIATIONS

BOC	BACK OF CURB or BACK OF GUTTER
EOP	EDGE OF PAVEMENT
DE	DRAINAGE EASEMENT
LME	LAKE MAINTENANCE EASEMENT
UE	UTILITY EASEMENT
CUE	COUNTY UTILITY EASEMENT
EL or ELEV	ELEVATION
INV	INVERT
LF	LINEAR FEET
NGVD	NATIONAL GEODETIC VERTICAL DATUM
PVI	POINT OF VERTICAL INTERSECTION
NIC	NOT IN CONTRACT
R/W or ROW	RIGHT OF WAY
SB	SOIL BORING
STA	STATION
UP	UTILITY POLE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
CATV	CABLE TELEVISION
FPL or FP&L	FLORIDA POWER & LIGHT
UTF	UNITED TELEPHONE OF FLORIDA
B	BASE LINE
C	CENTERLINE
F	FLOW LINE
P	PROPERTY LINE
CMP	CORRUGATED METAL PIPE
D.I.P.	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
MH	MANHOLE
STR	STORM SEWER STRUCTURE
X.XX' LT/X.XX' RT	FEET LEFT or FEET RIGHT

SYMBOLS

	AIR RELEASE VALVE, COMPLETE
	IN-LINE GATE VALVE W/ BOX
	IN-LINE PLUG VALVE W/ BOX
	FIRE HYDRANT, COMPLETE
	BLOW-OFF W/ BACTERIAL SAMPLE POINT
	BACTERIAL SAMPLE POINT
	BLOW-OFF
	PIPE PLUG
	WATER METER
	IRRIGATION METER
	REDUCER
	BACKFLOW PREVENTER/ABOVE GROUND METER
	SANITARY SEWER MANHOLE
	SANITARY SEWER LATERAL & CLEAN-OUT
	PUMP STATION
	STORM SEWER & STRUCTURE
	HEADWALL
	U-ENDWALL
	CONTROL STRUCTURE
	MITERED END/FLARED END SECTION
	PROPOSED ELEVATION
	PROPOSED PAVEMENT ELEVATION
	EXISTING ELEVATION
	EXISTING PAVEMENT ELEVATION
	DIRECTION OF DRAINAGE FLOW
	SWALE & DIRECTION OF FLOW
	HANDICAPPED PARKING SPACE

NOTE: OPEN SYMBOLS AND DASHED LINES DENOTE EXISTING IMPROVEMENTS

DESCRIPTION:

PARCEL 1

A portion of Lot 6, 30, and 31, Block 1, and a portion of the Platted former Railroad Right-of-way, Block 1, INTER-STATE INVESTMENT COMPANY'S PLAT No. 1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, being more particularly described as follows:

Begin at the Northeast corner of Lot 6, Block 1, INTER-STATE INVESTMENT COMPANY'S PLAT No. 1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, thence along the West face of an existing two story masonry building S.01°53'09"W., 115.13 feet, to the South boundary line of said Lot 6; thence along the South boundary line of said Lot 6, S.89°29'35"E., 0.12 feet, to the Southeast corner thereof; thence S.01°49'01"W., 12.96 feet, to the Northwest corner of Lot 30; thence S.00°30'15"W., 115.14 feet, to a point on the South boundary of Lot 30, said point lying 97.37 feet Westerly from the Southeast corner of Lot 29 of said Block 1; thence along the South boundary of Lots 30 and 31, N.89°29'25"W., 13.20 feet; thence departing said South boundary line, N.00°30'15"E., 243.20 feet, to the North boundary of Lot 6; thence along the North boundary of Lot 6, S.89°29'49"E., 16.15 feet to the POINT OF BEGINNING.

PARCEL 2

Lot 29 and a portion of Lot 30, Block 1, INTER-STATE INVESTMENT COMPANY'S PLAT No.1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, being more particularly described as follows:

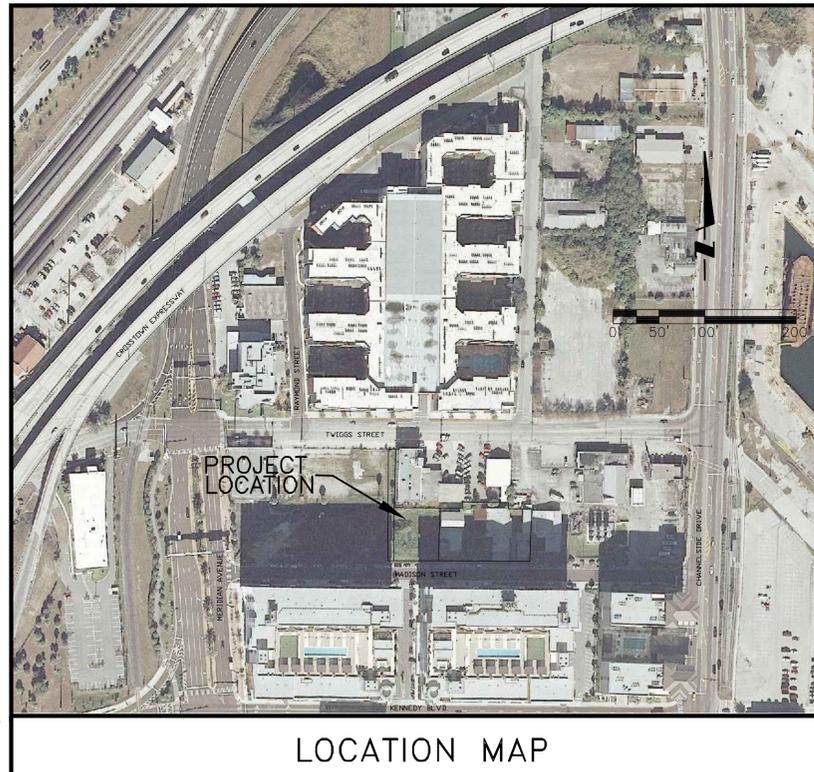
Begin at the Northeast corner of Lot 29, Block 1, INTER-STATE INVESTMENT COMPANY'S PLAT No. 1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, thence along the East boundary of said Lot 29, S.01°51'06"W., 115.17 feet(115.14 feet per Plat), to the Southeast corner of said Lot 29; thence along the South boundary of Lots 29 and 30 of said Block 1, N.89°29'25"W., 97.37 feet; thence departing the South boundary of said Lots, N.00°30'15"E., 115.14 feet, to the Northwest corner of Lot 30; thence along the North boundary of said Lots 29 and 30 S.89°29'35"E., 100.08 feet(100 feet per Plat) to the POINT OF BEGINNING.

PARCEL 3

Lots 25, 26, 27, and 28, in Block 1, of INTERSTATE INVESTMENT COMPANY'S PLAT #1, according to the Plat thereof, as recorded in Plat Book 11, at Page 54, of the Public Records of Hillsborough County, Florida;

AND

That part of railroad right-of-way lying North of and abutting Lots 26 and 27, of Block 1, of INTERSTATE INVESTMENT COMPANY'S PLAT #1, according to the Plat thereof, as recorded in Plat Book 11, at Page 54, of the Public Records of Hillsborough County, Florida, as further described in Deed recorded January 5, 1983, in Official Records Book 4048, Page 854.



LOCATION MAP

INDEX TO SHEETS

SHEET NO.	SHEET NAME
C1	COVER SHEET
C2	GENERAL NOTES
C3	EXISTING CONDITIONS MAP
C4	SITE/UTILITY PLAN
C5	DRAINAGE PLAN
C6	WASTEWATER & STORMWATER
C7	NOT USED
C8	WATER DETAILS
C9	CONSTRUCTION SURFACE WATER MANAGEMENT PLAN
E1.0	ELECTRICAL SITE PLAN
E1.1	PHOTOMETRIC SITE PLAN
E2.0	RISER DIAGRAM AND PANELS SCHEDULE
E3.0	ELECTRICAL SPECIFICATIONS
L110	MITIGATION PLAN
L120	HARDSCAPE PLAN
L130	LANDSCAPE PLAN
L140	IRRIGATION PLAN
L520	HARDSCAPE DETAILS
L521	HARDSCAPE DETAILS
L522	HARDSCAPE DETAILS
L523	HARDSCAPE DETAILS
L524	SHADE STRUCTURE DETAILS
L525	SHADE STRUCTURE DETAILS
L526	SHADE STRUCTURE DETAILS
L527	HARDSCAPE DETAILS
L530	LANDSCAPE DETAILS AND NOTES
L531	LANDSCAPE DETAILS AND NOTES
L540	IRRIGATION DETAILS AND NOTES

NO.	DATE	DESCRIPTION	BY

19-29-19	SEC-TWP-RGE	ISSUE DATE: 12-14-2018	PROJECT DESIGNER KEN JERNIGAN
		ISSUE DESCRIPTION: FINAL PLANS BID PLANS	PROJECT ENGINEER HAMID SAHEBKAR, P.E. FL LICENSE NO: 39991
		STATUS:	PROJECT SURVEYOR BAYSIDE

PROJECT NUMBER 215612562	
DATE 12-2018	INDEX NUMBER 1224 E. MADISON ST.



777 S Harbour Island Blvd, Suite 600, Tampa, Florida 33602

813-223-9500 - F 813.223.0009

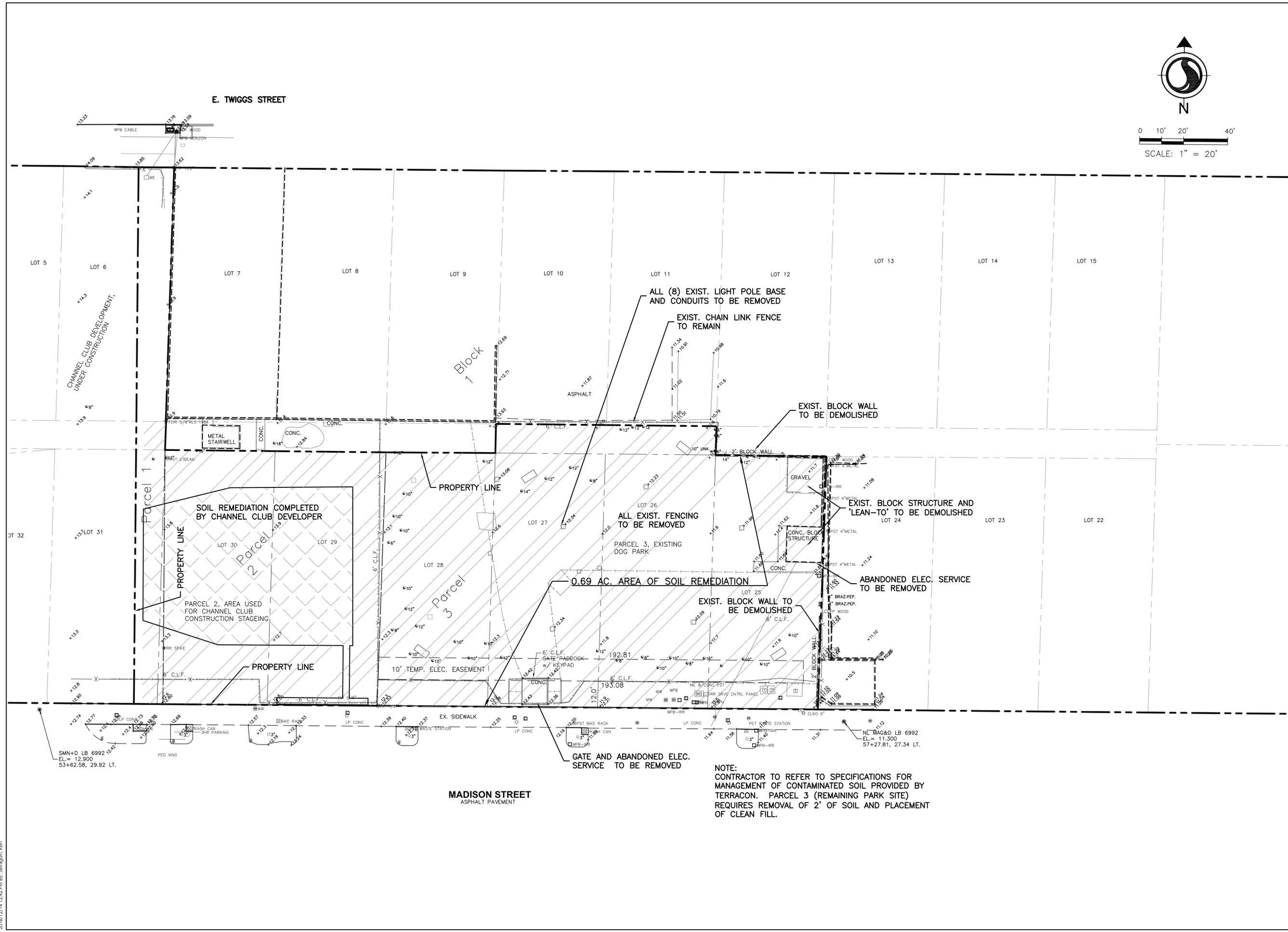
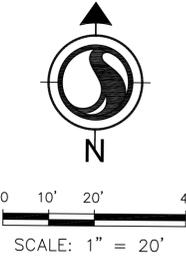
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Revision	By	Appd.	Y/M/MD	
5	FINAL PLAN / BID PLAN	OJ	HS	18.12.14
4	100% CD	OJ	HS	18.10.08
3	90% CD CITY REVIEW	OJ	HS	18.07.02
2	90% FWD SUBMITTAL	KMJ	HS	18.05.22
1	100% CD CLIENT REVIEW	KMJ	HS	18.05.15
	ISSUED			Y/M/MD

Client/Project
 CITY OF TAMPA
 MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
 EXISTING CONDITIONS MAP

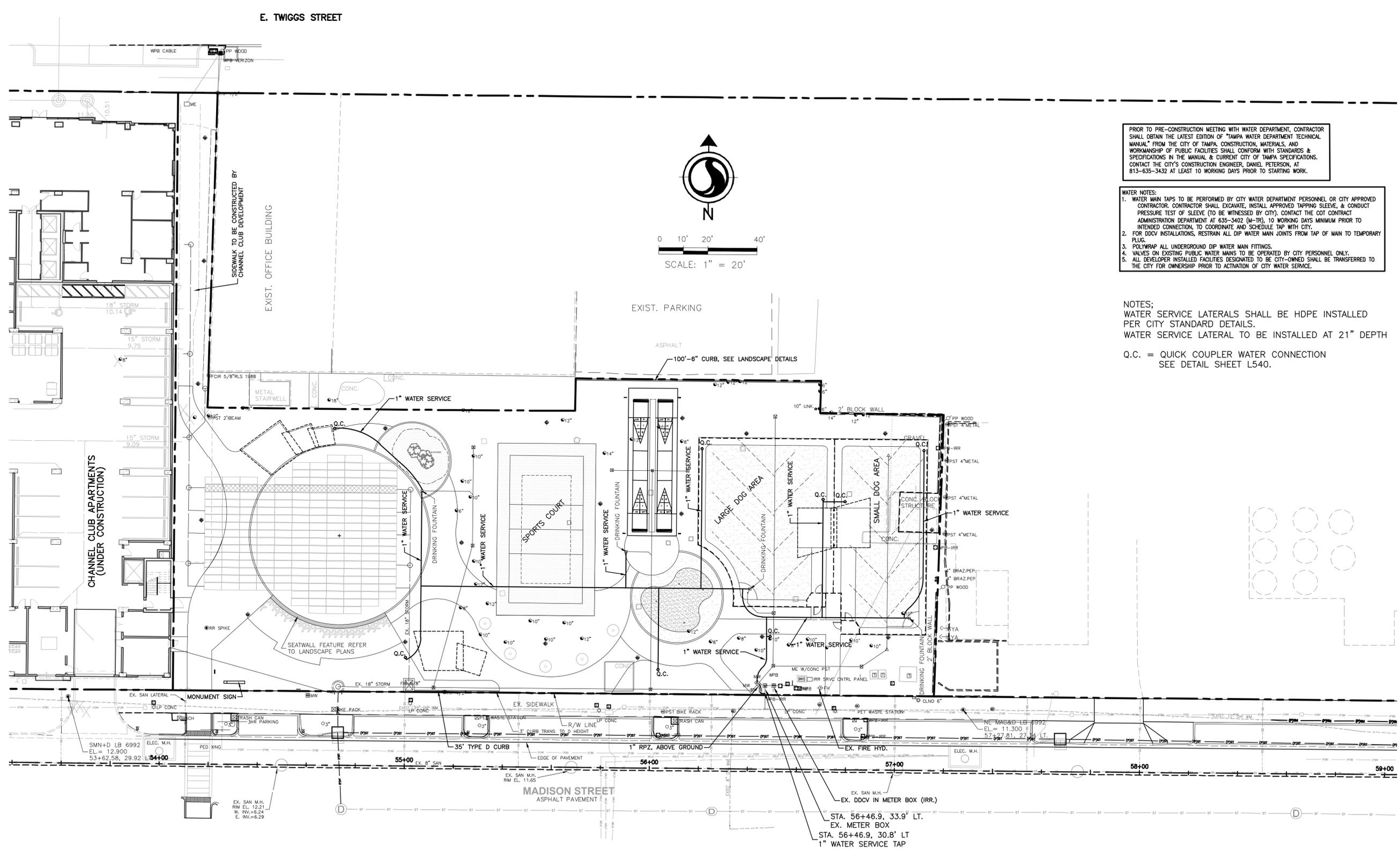
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HAMIDREZA SAHEBKAR P.E.
 FLORIDA CERTIFICATE NO. 39991
 Project Number: 215612562
 SCALE: 1"=20'
 FILE NAME: 12562-01C-101DP.DWG
 Dwn. Chkcd. Dsgn. Y/M/MD

Drawing No. C-3
 Revision Sheet
 0 3 of 23

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 ORIGINAL SHEET - ANSI D

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 2018/12/20 7:27 PM B\Johnson_Corbo



PRIOR TO PRE-CONSTRUCTION MEETING WITH WATER DEPARTMENT, CONTRACTOR SHALL OBTAIN THE LATEST EDITION OF "TAMPA WATER DEPARTMENT TECHNICAL MANUAL" FROM THE CITY OF TAMPA. CONSTRUCTION, MATERIALS, AND WORKMANSHIP OF PUBLIC FACILITIES SHALL CONFORM WITH STANDARDS & SPECIFICATIONS IN THE MANUAL & CURRENT CITY OF TAMPA SPECIFICATIONS. CONTACT THE CITY'S CONSTRUCTION ENGINEER, DANIEL PETERSON, AT 813-635-3432 AT LEAST 10 WORKING DAYS PRIOR TO STARTING WORK.

- WATER NOTES:**
1. WATER MAIN TAPS TO BE PERFORMED BY CITY WATER DEPARTMENT PERSONNEL OR CITY APPROVED CONTRACTOR. CONTRACTOR SHALL EXCAVATE, INSTALL APPROVED TAPPING SLEEVE, & CONDUCT PRESSURE TEST OF SLEEVE (TO BE WITNESSED BY CITY). CONTACT THE CITY CONTRACT ADMINISTRATION DEPARTMENT AT 635-3402 (M-F), 10 WORKING DAYS MINIMUM PRIOR TO INTENDED CONNECTION, TO COORDINATE AND SCHEDULE TAP WITH CITY.
 2. FOR DDCV INSTALLATIONS, RESTRAIN ALL DIP WATER MAIN JOINTS FROM TAP OF MAIN TO TEMPORARY PLUG.
 3. POLYWRAP ALL UNDERGROUND DIP WATER MAIN FITTINGS.
 4. VALVES ON EXISTING PUBLIC WATER MAINS TO BE OPERATED BY CITY PERSONNEL ONLY.
 5. ALL DEVELOPER INSTALLED FACILITIES DESIGNATED TO BE CITY-OWNED SHALL BE TRANSFERRED TO THE CITY FOR OWNERSHIP PRIOR TO ACTIVATION OF CITY WATER SERVICE.

NOTES:
 WATER SERVICE LATERALS SHALL BE HDPE INSTALLED PER CITY STANDARD DETAILS.
 WATER SERVICE LATERAL TO BE INSTALLED AT 21" DEPTH
 Q.C. = QUICK COUPLER WATER CONNECTION
 SEE DETAIL SHEET L540.

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 F.L.C. # LC-C000170
The Contractor and its employees are responsible for all dimensions, DO NOT scale the drawings - no errors or omissions shall be reported to Stantec, without delay. The Contractor shall design and construct the project in accordance with the specifications and standards of the City of Tampa and the State of Florida.

Revision	By	App'd	Y/M/DD
5	FINAL PLAN / BID PLAN	OJ HS	18.12.14
4	100% CD	OJ HS	18.10.08
3	100% CD CITY REVIEW	OJ HS	18.07.02
2	30% FWD QUBRITAL	KMJ HS	18.03.22
1	100% DD CLIENT REVIEW	KMJ HS	18.03.15

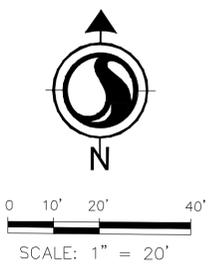
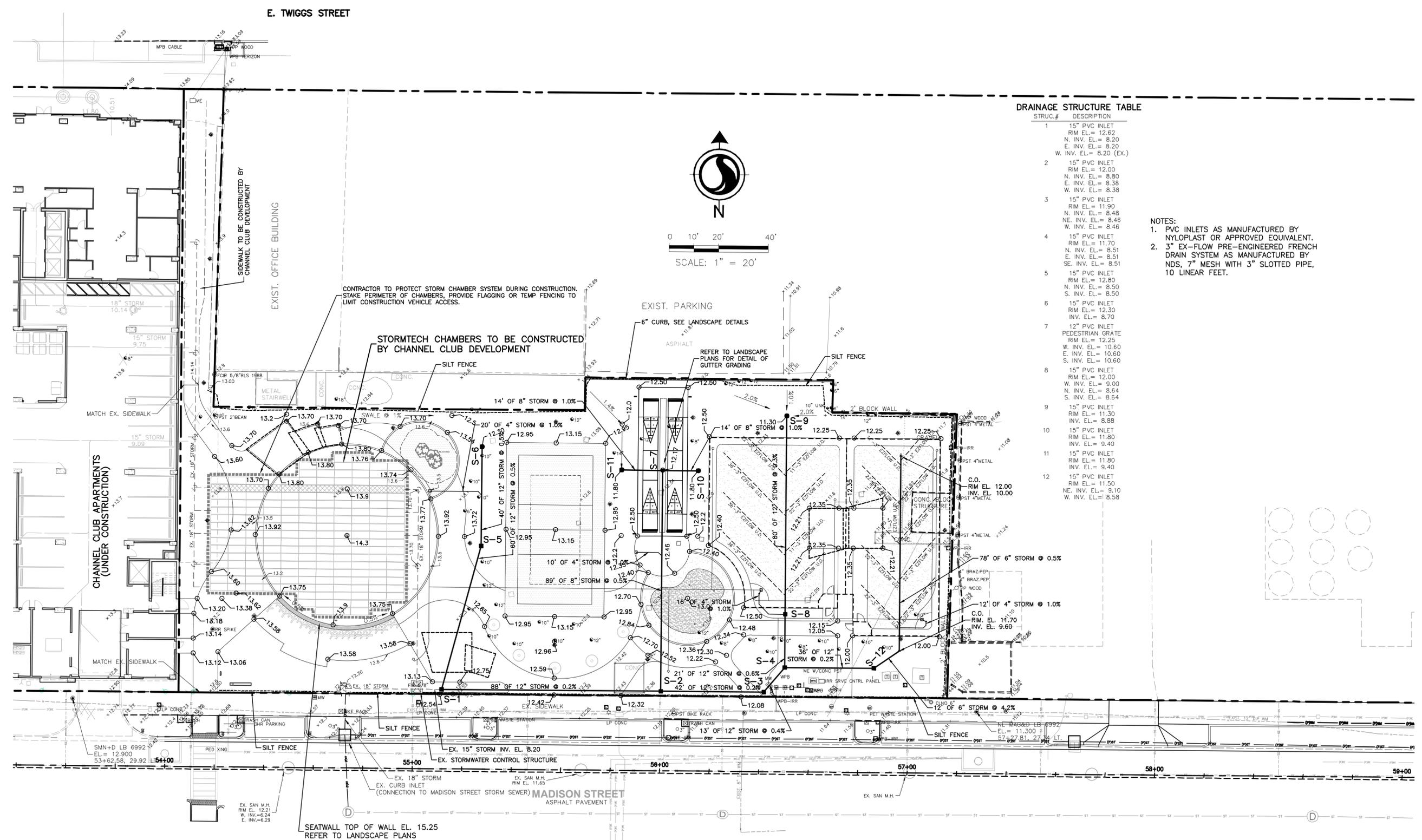
Issued

Client/Project
 CITY OF TAMPA
 MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
 SITE & UTILITIES PLAN

Permit-Seal
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 FLORIDA CERTIFICATE NO. 39991
 Project Number: 215612562
 SCALE: 1"=20'
 FILE NAME: 12562-01-C-101SP.DWG
 KJ HS KJ 2018/12/14
 Dwn. Chkcd. Dsgn. Y/M/M/DD
 Drawing No. C-4
 Revision Sheet
 0 4 of 23

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DRAINAGE STRUCTURE TABLE

STRUC.#	DESCRIPTION
1	15" PVC INLET RIM EL. = 12.62 N. INV. EL. = 8.20 E. INV. EL. = 8.20 W. INV. EL. = 8.20 (EX.)
2	15" PVC INLET RIM EL. = 12.00 N. INV. EL. = 8.80 E. INV. EL. = 8.38 W. INV. EL. = 8.38
3	15" PVC INLET RIM EL. = 11.90 N. INV. EL. = 8.48 E. INV. EL. = 8.46 W. INV. EL. = 8.46
4	15" PVC INLET RIM EL. = 11.70 N. INV. EL. = 8.51 E. INV. EL. = 8.51 S. INV. EL. = 8.51
5	15" PVC INLET RIM EL. = 12.80 N. INV. EL. = 8.50 S. INV. EL. = 8.50
6	15" PVC INLET RIM EL. = 12.30 INV. EL. = 8.70
7	PEDESTRIAN GRATE RIM EL. = 12.25 W. INV. EL. = 10.60 E. INV. EL. = 10.60 S. INV. EL. = 10.60
8	15" PVC INLET RIM EL. = 12.00 W. INV. EL. = 9.00 N. INV. EL. = 8.64 S. INV. EL. = 8.64
9	15" PVC INLET RIM EL. = 11.30 INV. EL. = 8.88
10	15" PVC INLET RIM EL. = 11.80 INV. EL. = 9.40
11	15" PVC INLET RIM EL. = 11.80 INV. EL. = 9.40
12	15" PVC INLET RIM EL. = 11.50 NE. INV. EL. = 9.10 W. INV. EL. = 8.58

- NOTES:**
- PVC INLETS AS MANUFACTURED BY NYLOPLAST OR APPROVED EQUIVALENT.
 - 3" EX-FLOW PRE-ENGINEERED FRENCH DRAIN SYSTEM AS MANUFACTURED BY NDS, 7" MESH WITH 3" SLOTTED PIPE, 10 LINEAR FEET.

GENERAL NOTES

- ALL NECESSARY AND NEEDFUL EROSION / SILTATION CONTROL BARRIERS SHALL BE IN PLACE THROUGHOUT THE COURSE OF CONSTRUCTION.
- CONTRACTOR SHALL EVALUATE THE PROJECT AREA AND CONSTRUCTION STAGING TO DETERMINE IF ADDITIONAL EROSION CONTROL BARRIERS ARE NECESSARY ON A WEEKLY BASIS.

PROJECT IS PART OF A MASTER PLANNED COMMUNITY WITH CONCEPTUAL ERP PERMIT #49001660.041, AND WEST SIDE OF THE PARK IS INCLUDED IN CHANNEL CLUB BUILDING ERP PERMIT #44001660.049. THE EAST SIDE OF THE PARK IS TO RECEIVE CREDIT FROM CHANNEL DISTRICT VAULT FOR 0.55 ACRE AREA WITH 0.22 ACRE IMPERVIOUS.
 FEMA FLOOD MAP 12057C0354H, ZONE X, DATE; AUG. 28, 2008

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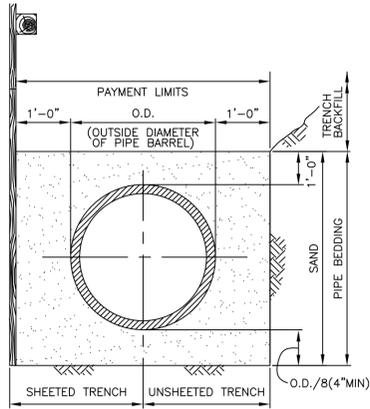
Revision	By	App'd	Y/M/DD
5	KMJ	HS	18.12.14
4	KMJ	HS	18.10.08
3	KMJ	HS	18.06.18
2	KMJ	HS	18.03.22
1	KMJ	HS	18.03.15

Client/Project: CITY OF TAMPA
 MADISON STREET PARK
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title: DRAINAGE PLAN

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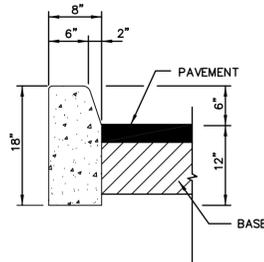
HAMIDREZA SAHEBKAR P.E.
 FLORIDA CERTIFICATE NO. 39991
 Project Number: 215612562
 SCALE: 1"=20'
 KMJ HS 17.08.15
 Dwn. Chkd. Dsgn. Y/M/M/DD
 Drawing No. C-5
 Revision Sheet
 0 5 of 23



CLASS C BEDDING

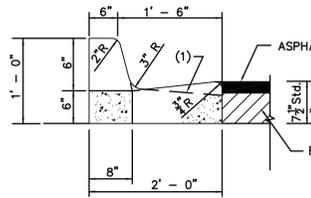
- NOTES:
1. ALL TYPES OF PIPE BEDDING SHALL EXTEND TO UNDISTURBED EARTH AT SIDES AND BOTTOM OF THE TRENCH.
 2. SAND AND CRUSHED STONE PIPE BEDDING SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.

CITY OF TAMPA WASTEWATER DEPT.
TRENCH BACKFILL DETAIL
N.T.S.



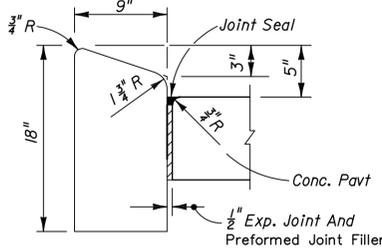
TYPE D CURB

N.T.S.



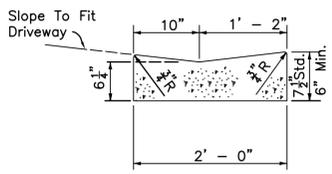
TYPE F CURB

N.T.S.



TYPE B CURB

N.T.S.

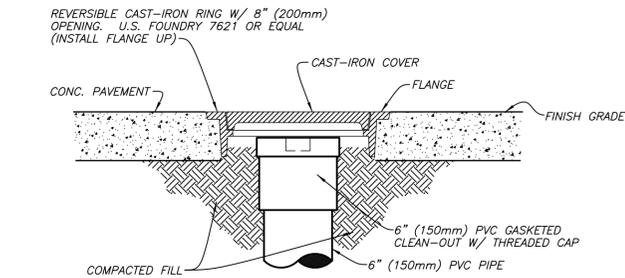


DROP CURB

N.T.S.

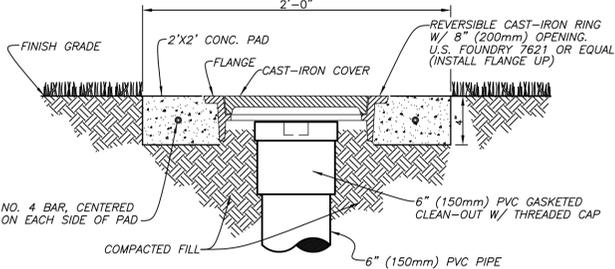
CURB NOTES:

1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON PLANS.
2. FOR CURB, GUTTER AND TRAFFIC SEPARATORS PROVIDE 1/8" - 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION
3. JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. WHEN USED ON LOW SIDE OF ROADWAYS, LIP OF GUTTERS SHALL BE INSTALLED 1/4" BELOW THE EDGE OF ASPHALT.



CLEAN-OUT W/ COVER FOR CONCRETE PAVED AREAS

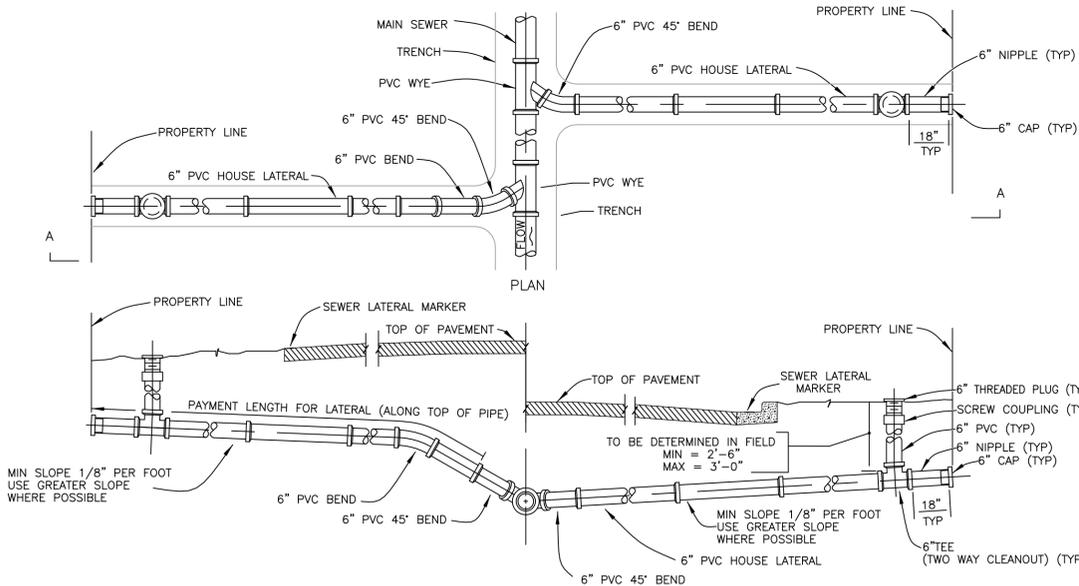
Not to Scale



CLEAN-OUT W/COVER FOR GRASSED AREAS W/VEHICULAR TRAFFIC

NOTES:

1. Contractor shall adjust the clean-out and cast iron ring and cover or HDPE box and cover so that the cover is seated securely and the top of the cover is flush with the finish grade. The PVC cap of the clean-out shall be no more than 4 inches deeper than the finish grade.
2. PVC cap may be provided with recessed nut.
3. Cast iron cover shall be provided with an embossed letter "S" for identification, HDPE cover shall be marked "SEWER" for identification.
4. Cast iron ring and cover, or HDPE box and cover, as well as the four (4 sf) square feet of material (concrete or asphalt around the clean-out), are part of the clean out installation and cost shall be included within the unit price for clean-out with no additional payment.
5. All clean-outs on this project shall be one of the four types shown on this sheet. Field conditions will determine which type.



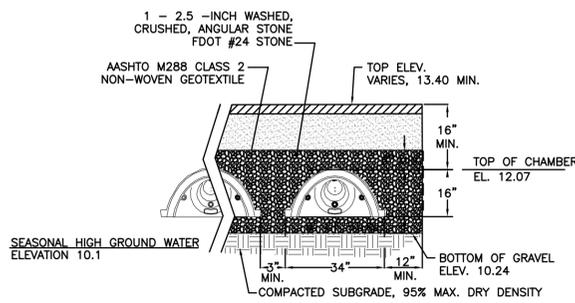
SECTION A-A
NOTES

1. THE LOCATIONS OF HOUSE LATERALS BY SYMBOLS ON PLANS ARE APPROXIMATE ONLY AND THE ACTUAL LOCATION AND SLOPES WILL BE DETERMINED IN THE FIELD BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.
2. THE MINIMUM DIAMETER OF ALL HOUSE LATERALS SHALL BE 6".
3. HOUSE LATERALS WHICH PASS UNDER DRAINAGE DITCHES WITH LESS THAN 18" OF COVER OR WHICH HAVE LESS THAN 30" OF COVER UNDER PAVEMENT, SHALL BE CLASS 54 POLY-LINED DIP PER SPECIFICATIONS.
4. THE DEPARTMENT'S STANDARD REGARDING VERTICAL PERPENDICULAR CONFLICTS REQUIRES THAT THERE BE A MINIMUM OF 18" CLEARANCE BETWEEN HOUSE LATERALS AND ALL CROSSING UTILITIES. IF, HOWEVER, CONDITIONS DICTATE THAT IT IS IMPOSSIBLE TO MEET THIS STANDARD, THE FOLLOWING NOTES ARE INTENDED TO ADDRESS THE MOST COMMON CONFLICT CONDITIONS.
5. THE MINIMUM CLEARANCE BETWEEN HOUSE LATERALS AND WATER LINES SHALL BE 6" UNDER ALL CIRCUMSTANCES. IF THE HOUSE LATERAL IS BELOW A WATER LINE AND HAS BETWEEN 6" AND 18" OF CLEARANCE OR IF THE LATERAL IS ABOVE THE WATER LINE REGARDLESS OF CLEARANCE, THEN A NOMINAL 20' LENGTH OF GREEN ANWWA CLASS 150 C900 PVC PIPE SHALL BE CENTERED OVER/UNDER THE WATER LINE.
6. IF THE HOUSE LATERAL MUST PASS OVER ANY UTILITY OTHER THAN A WATER LINE WITH LESS THAN 18" CLEARANCE, THE LATERAL SHALL REMAIN SDR 35 PVC PIPE.
7. IF THE HOUSE LATERAL MUST PASS UNDER ANY UTILITY OTHER THAN A WATER LINE WITH LESS THAN 18" CLEARANCE, THE LATERAL SHALL REMAIN SDR 35 PVC PIPE UNLESS THE UTILITY POSES A STRUCTURAL LOAD TOO GREAT FOR THE PVC LATERAL. IF THE UTILITY POSES SUCH A STRUCTURAL LOAD AS DETERMINED BY THE ENGINEER, EACH CONFLICT WILL BE REVIEWED ON A CASE BY CASE BASIS.
8. TRANSITIONS FROM SDR 35 PVC TO EITHER C900 OR DUCTILE IRON PIPES SHALL BE MADE WITH PVC RIGID ADAPTORS. TRANSITIONS FROM SDR 35 PVC TO EITHER EXISTING CLAY OR CONCRETE PIPES SHALL BE MADE WITH FERNCO FLEXIBLE ADAPTORS OR EQUAL.

TYPICAL SANITARY SEWER LATERAL DETAIL

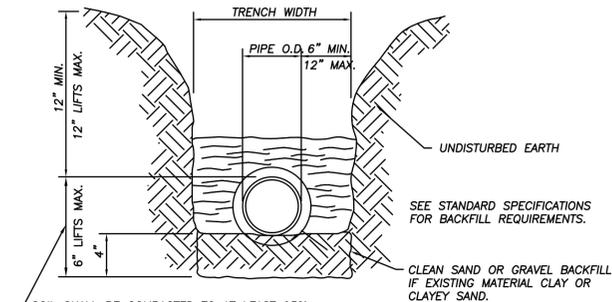
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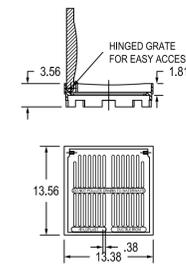
TYPICAL CROSS SECTION
EXIST. CHAMBER DETENTION SYSTEM

N.T.S.



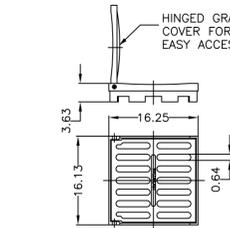
STORMWATER TRENCH CROSS SECTION

N.T.S.



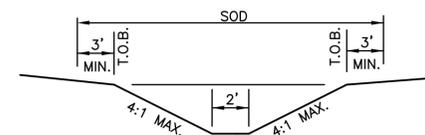
12" PEDESTRIAN GRATE DETAIL

- APPROX. DRAIN AREA = 50.60 SQ IN
APPROX. WEIGHT WITH FRAME = 35.04 LBS
- DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-034



15" STANDARD GRATE DETAIL

- APPROX. DRAIN AREA = 92.70 SQ. IN.
APPROX. WEIGHT WITH FRAME = 59.62 LBS.
- STANDARD GRATE HAS H-25 HEAVY DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 & A48-CLASS 30B
MATERIAL: DUCTILE IRON GRATE W/CAST IRON FRAME
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT



TYPICAL
SWALE SECTION

N.T.S.



Stantec Consulting Services Inc.
2205 North 20th Street
Tampa, Florida 33605
Tel. 813.223.9500
www.stantec.com
Fax. 813.223.0009
Certificate of Authorization #27013
FL LIC. # LC-C000170

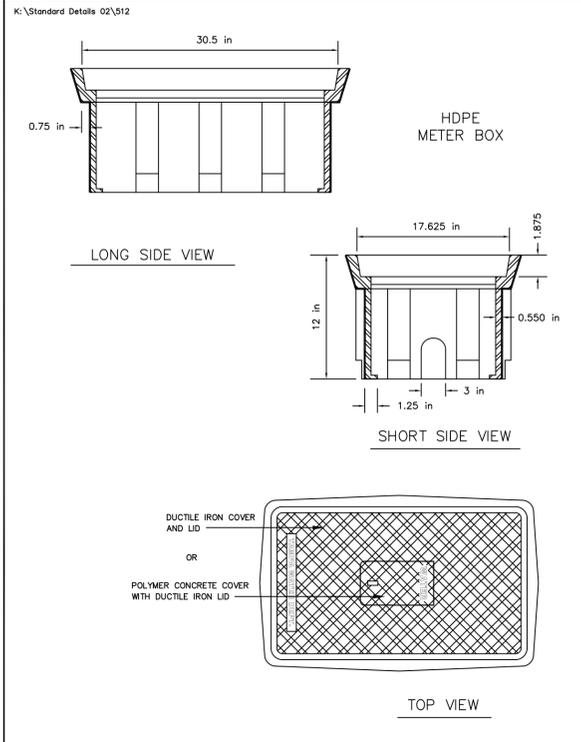
The Contractor shall verify and be responsible for all dimensions, DO NOT scale. The Contractor shall verify and be responsible for all dimensions, DO NOT scale. The Contractor shall verify and be responsible for all dimensions, DO NOT scale. The Contractor shall verify and be responsible for all dimensions, DO NOT scale.

Revision	By	App'd	Y/M/D
5	FINAL PLAN / BID PLAN	HS	18.12.14
4	100% CD	OJ	18.10.08
3	90% CD CITY REVIEW	OJ	18.07.02
2	SWFWMD SUBMITTAL	KMJ	18.05.22
1	100% DD CLIENT REVIEW	KMJ	18.05.15

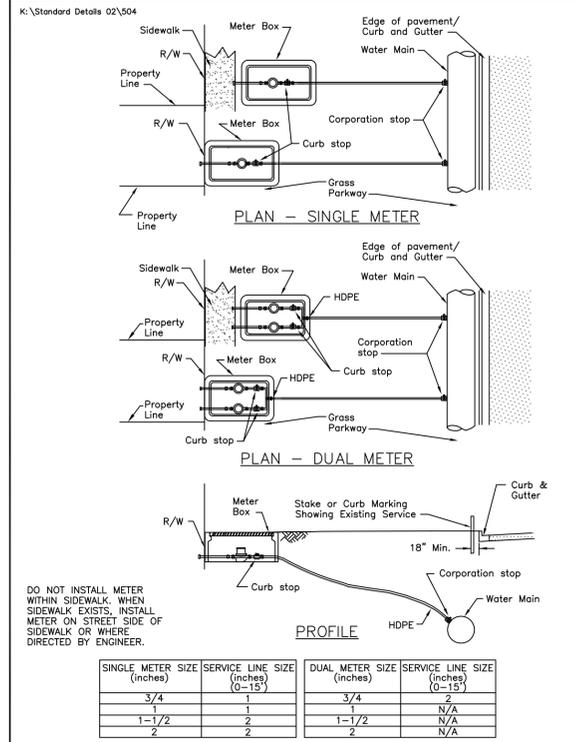
Client/Project
CITY OF TAMPA
MADISON STREET PARK
1224 E. MADISON STREET, CHANNEL DISTRICT
Title
WASTEWATER & STORMWATER DETAILS

Permit-Seal

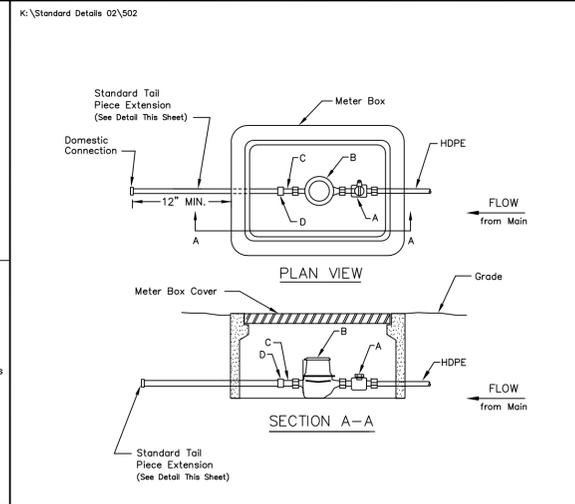
Project Number:	215612562
SCALE:	NA
Dwn:	KMJ
Chkd:	HS
Dsgn:	YYMMDD
Drawing No.:	C-6
Revision:	Sheet



TAMPA WATER DEPARTMENT	APPROVED	REVISED	1-1/2" & 2" SINGLE SERVICE METER BOX	5.12



TAMPA WATER DEPARTMENT	APPROVED	REVISED	SINGLE & DUAL METERED SERVICE - SHORT SIDE 3/4", 1", 1-1/2" AND 2"	5.04



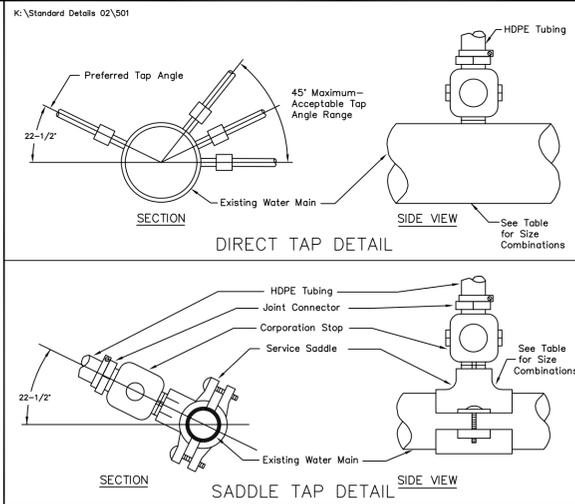
METER INSTALLATION - PARTS LIST -	
ITEM	DESCRIPTION
A	HDPE CJ X METER, SWEL NUT
B	METER
C	BRASS METER COUPLING
D	PVC FIP X WELD COUPLING

Solvent Weld, PVC Cop
 PVC Pipe (SCH 40)
 Extend 1" min. beyond meter box
 TAIL PIECE EXTENSION DETAIL

TAMPA WATER DEPARTMENT	APPROVED	REVISED	SINGLE METER SET DETAIL 3/4", 1", 1-1/2", 2"	5.02

FLORIDA BUILDING CODE (FBC) UTILITY NOTES (ON-SITE OR PRIVATE WATER MAINS)

- SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.
- WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 12 INCHES VERTICAL DISTANCE, A MINIMUM CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING AND THE WATER MAIN SHALL BE ENCLOSED WITH A STEEL CASING CENTERED ON THE CROSSING TO 5 FEET ON BOTH SIDES OF THE CROSSING. WHERE WATER MAIN CROSSES BELOW SEWER MAIN, ENCASMENT OF BOTH MAINS IS MANDATORY.
- ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING PIPES CENTERED ON THE CROSSING. JOINT SPACING SHALL BE MINIMUM 5 FEET. WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
- A MINIMUM OF 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 6 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 12 INCHES ABOVE THE TOP OF THE SEWER.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- ALL ON SITE PVC WATER MAINS 4 INCHES THROUGH 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 STANDARDS. ALL ON SITE PVC WATER MAINS 2" TO 3" SHALL BE CLASS 1120 OR 1220 (SDR 21) AND MEET REQUIREMENTS OF ASTM D-2241. WATER MAINS SMALLER THAN 2" SHALL BE CLASS 1120 OR 1220 SCHEDULE 80 AND MEET REQUIREMENTS OF ASTM D1785.
- PE PIPE 2" OR SMALLER SHALL MEET THE REQUIREMENTS OF ASTM D-1248.
- ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.51, MINIMUM CLASS 50. IN AREAS WHERE THE SOIL IS DETERMINED TO BE CORROSIVE OR HIGH GROUND WATER IS LIMITED TO TREES, SHRUBS, PARKING, FIRE DEPARTMENT CONNECTIONS, POST-INDICATOR VALVES, TRANSFORMERS AND LIGHT POLES, WHETHER OR NOT SHOWN HEREON. NOTIFY THE ENGINEER OF RECORD (EOR) IF THERE IS A CONFLICT.



PIPE	SIZE	CORPORATION TAP SIZE	
DI/CI	12"	DT	DT
	8"	DT	SS
	6"	DT	SS
	4"	SS	SS
PVC	2", 2-1/2"	SS	NA
	8" C-900	SS	SS
	6" C-900	SS	SS
	2"-SDR21	SS	NA
OTHER*	12"	SS	SS
	10"	SS	SS
	8"	SS	SS
	6"	SS	SS
	4"	SS	NA
	3"	SS	NA
	2", 2-1/2"	SS	NA

LEGEND
 DT- Direct Tap Can be Allowed
 SS- Service Saddle is Required
 NA- Not Allowed
 *Asbestos Cement, Steel, Galvanized Iron Pipe, Non Std PVC, etc.

TAMPA WATER DEPARTMENT	APPROVED	REVISED	TAPPING DETAIL FOR 3/4", 1", 1-1/2" & 2" CORPORATION STOP	5.01

1"-2" (RPZ) BACKFLOW PREVENTOR DETAIL

- RPZ NOTES:**
- CERTIFICATION OF PROPER INSTALLATION AND OPERATION WILL BE REQUIRED FROM A CERTIFIED BACKFLOW PREVENTION TECHNICIAN PRIOR TO WATER MAIN ACCEPTANCE.
 - THE BACKFLOW PREVENTION DEVICE ASSEMBLY SHALL BE ON THE APPROVED LIST OF THE UNIVERSITY OF SOUTHERN CALIFORNIA AND SHALL MEET CITY OF TAMPA STANDARDS.
 - THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE PROPER OPERATION, MAINTENANCE AND TESTING OF THE BACKFLOW PREVENTION DEVICE ASSEMBLY.
 - 6" CONCRETE SLAB SHALL BE REINFORCED WITH No.6x6-W10xW10 AND SHALL BE TYPE I, PORTLAND CEMENT WITH A MINIMUM 28-DAY STRENGTH OF 3000 PSI.
 - SLAB WIDTH AND LENGTH SHALL VARY WITH ASSEMBLY SIZE AND SHALL MEET CITY OF TAMPA STANDARDS & MANUFACTURERS RECOMMENDATIONS.
 - ALL ABOVE GROUND COMPONENTS SHALL BE PAINTED BLUE.

TAMPA WATER DEPARTMENT	APPROVED	REVISED	TAPPING DETAIL FOR 3/4", 1", 1-1/2" & 2" CORPORATION STOP	5.01

TAMPA WATER DEPARTMENT	APPROVED	REVISED	SINGLE METER SET DETAIL 3/4", 1", 1-1/2", 2"	5.02

Revision	By	App'd	Y/M/MD
3	FINAL PLAN / BID PLAN	HS	18.12.14
4	100% CD	OJ	18.10.08
3	90% CD CITY REVIEW	OJ	18.07.02
2	SWFWMD SUBMITTAL	KMJ	18.05.22
1	100% DD CLIENT REVIEW	KMJ	18.05.15

TAMPA WATER DEPARTMENT	APPROVED	REVISED	SINGLE METER SET DETAIL 3/4", 1", 1-1/2", 2"	5.02

K:\Standard Details 02\512
 K:\Standard Details 02\504
 K:\Standard Details 02\502
 K:\Standard Details 02\501

3	FINAL PLANS	18.12.17				
2	100% CD CLIENT REVIEW	18.05.15	HS			
1	60% CD CLIENT REVIEW	17.08.15	HS			
						YY.MM.DD

Client/Project
 CITY OF TAMPA
 MADISON STREET PARK
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
 ELECTRICAL SITE PLAN
 Permit-Seal

Project Number: 215612562
 SCALE: AS NOTED

RR	SS	SS	18.10.08
Drawn	Chkd.	Disgn.	YY.MM.DD

 Drawing No. E1.0
 Revision Sheet

LEGEND

MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION.

S ¹	SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHT CONTROLLED, MOUNT 48" A.F.F. U.O.N.	---	CIRCUITRY CONCEALED IN WALL OR ABOVE CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
S ²	DOUBLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.	- - -	CIRCUITRY CONCEALED BELOW FLOOR SLAB OR FINISHED GRADE WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
S ³	THREE-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.	- - - -	CIRCUITRY EXPOSED ON WALL OR CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
S ⁴	SINGLE POLE SWITCH WITH PILOT LIGHT, MOUNT 48" A.F.F. U.O.N.	□	DISCONNECT SWITCH
⊕	DUPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.	100/3/30	DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES NON-FUSED; "DE" INDICATES DUAL ELEMENT FUSES.
⊕	QUADRAPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.	⊗	CONTACTOR (AS NOTED)
⊕ 30A	1 PH, 250V, RECEPTACLE, AMPS AS NOTED, MOUNT 18" A.F.F. U.O.N.	⌚	TIME CLOCK
⊕	SPECIAL RECEPTACLE AS NOTED	☒	PHOTOCELL
⊕ GFI	GROUND FAULT INTERRUPTER RECEPTACLE, LEVITON #80491, MOUNT ABOVE COUNTER HEIGHT U.O.N.	⊞	FUSHBUTTON, MOUNT 48" A.F.F. U.O.N.
⊕ HP	WEATHERPROOF DUPLEX RECEPTACLE, WEATHER RESISTANT AND GFI RATED, LEVITON #WT849-TR14, MOUNT AT 18" A.F.F. U.O.N.	⊞	JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS U.O.N.)
■	LIGHTING OR POWER PANELBOARD	■	DEVICE AS NOTED

NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN U.O.N.

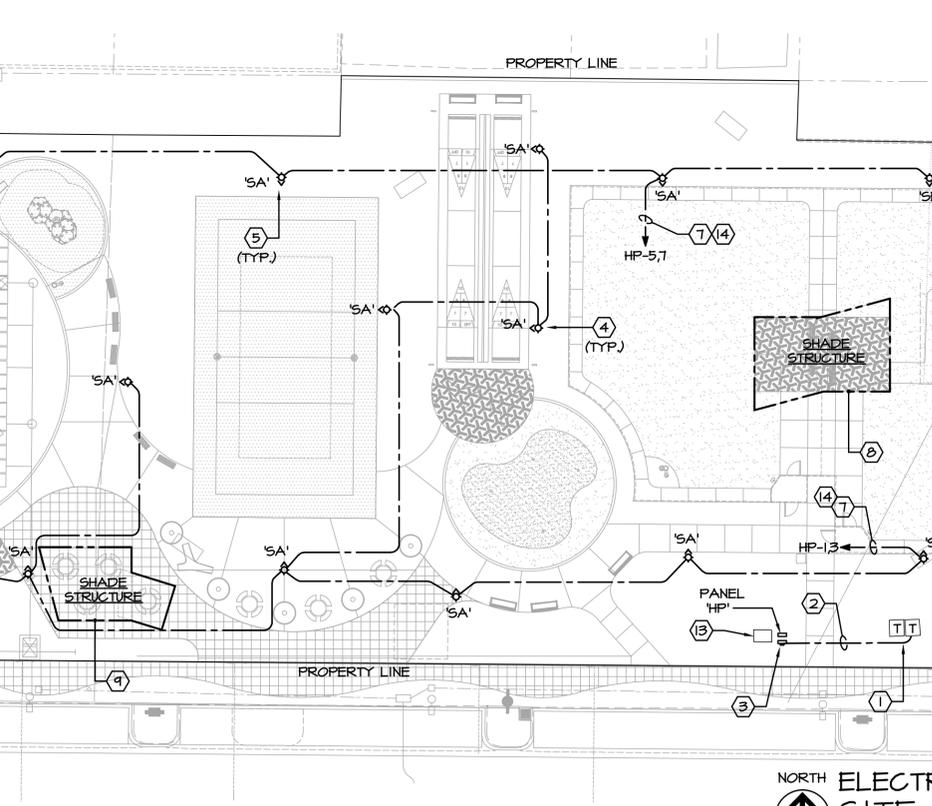
ABBREVIATIONS

E.G.	EQUIPMENT GROUND	U.O.N.	UNLESS OTHERWISE NOTED	G.T.	CURRENT TRANSFORMER
WP	WEATHERPROOF	N.T.S.	NOT TO SCALE	EX.	EXISTING DEVICE
A.F.G.	ABOVE FINISH GRADE	N.I.C.	NOT IN CONTRACT	A.F.F.	ABOVE FINISH FLOOR

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG NO.	VOLT	LAMPS	LOAD (W)	MOUNTING
SA	LANDSCAPE FORMS INC.	AG500L5-056F-40K-UVI-14-TW1 (SEE NOTE #3 BELOW)	208	LED	57	SEE POLE DETAIL THIS SHEET
SB	LANDSCAPE FORMS INC.	AG500L3-046F-40K-UVI-14-TW1 (SEE NOTE #3 BELOW)	208	LED	48	

GENERAL NOTES:
 1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES.
 2. EQUALS ONLY WILL BE ACCEPTED.
 3. FIXTURE AND POLE FINISH COLOR AS SELECTED BY OWNER/CIVIL.



UTILITY CONTACTS

POWER COMPANY
 COMPANY TECO
 NAME: ONE SOURCE PHONE: (813) 635-1500

CONTRACTOR SHALL NOTIFY UTILITY COMPANY REPRESENTATIVE LISTED ABOVE OF THE PRE-CONSTRUCTION MEETING SCHEDULE.

SHEET LEGEND:

E1.0	ELECTRICAL SITE PLAN
E1.1	PHOTOMETRIC SITE PLAN
E2.0	RISER DIAGRAM AND PANEL SCHEDULES
E3.0	ELECTRICAL SPECIFICATIONS

CHEHAYEB & ASSOCIATES, INC.
 CONSULTING PROFESSIONAL ENGINEERS

3702 AZEEL ST.
 TAMPA, FL 33609

(813) 876-1415
 (fax) 876-0919

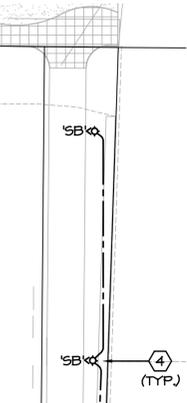
LIC. #49521 SOUHEL CHEHAYEB CERT. #7340
 18-65

NOTES

- EXISTING LOCATION OF UTILITY PAD MOUNTED TRANSFORMER. FIELD COORDINATE EXACT LOCATION PRIOR TO BID AND/OR ROUGH IN. SEE SHEET E2.0 FOR ADDITIONAL INFORMATION.
- SECONDARY FEEDERS BY ELECTRICAL CONTRACTOR. SEE POWER RISER DIAGRAM ON SHEET E2.0.
- ELECTRIC SERVICE, SEE RISER ON SHEET E2.0.
- SITE LIGHTING FIXTURE AND POLE. SEE DETAIL ON THIS SHEET. VERIFY REQUIRED TERMINATION AT BASE OF POLE AND PROVIDE ACCORDINGLY.
- FIXTURE OPTICS ORIENTATION. COORDINATE WITH THE FIXTURE MANUFACTURER FOR PROPER ORIENTATION PRIOR TO FINAL INSTALLATION.
- SHADE STRUCTURE. PROVIDE THE FOLLOWING:
 - (4) OUTLETS, WEATHER RESISTANCE GFI WITH "NET WHILE IN USE" LOCKABLE METAL COVER. MOUNTED AT 18" A.F.G. (CKT# HP-2)
 - (2) LIGHT FIXTURES TYPE 'A'. (SEE FIXTURE SCHEDULE SHEET E1.1). CKT# HP-4. PROVIDE A WEATHERPROOF SWITCH FOR CONTROLS.

NOTE: VERIFY EXACT LOCATION OF OUTLETS AND LIGHTS IN SHADE STRUCTURE WITH VENDOR PRIOR TO ROUGH-IN AND COMPLY ACCORDINGLY.
- PROVIDE 1" CONDUIT WITH 4-#8, 1-#8 E.G. 2-#8 = OUTLETS 2-#8 = LIGHTS
- ALL CONDUITS AND CONNECTORS FOR ELECTRICAL ELEMENTS ON SHADE STRUCTURES SHALL BE PAINTED TO MATCH COLUMNS OR UNDERSIDE OF ROOF AS NEEDED.
- SHADE STRUCTURE. PROVIDE THE FOLLOWING:
 - (2) OUTLETS, WEATHER RESISTANCE GFI WITH "NET WHILE IN USE" LOCKABLE METAL COVER MOUNTED AT 18" A.F.G. (CKT# HP-10)
 - PROVIDE 1" CONDUIT WITH 2-#10, 1-#10 E.G. 2-#10 = OUTLETS
 - ALL CONDUITS AND CONNECTORS FOR ELECTRICAL ELEMENTS ON SHADE STRUCTURES SHALL BE PAINTED TO MATCH COLUMNS OR UNDERSIDE OF ROOF AS NEEDED.
- RUN LIGHTING CIRCUITS VIA LIGHTING CONTACTOR, SEE PANEL SCHEDULE.
- SHADE STRUCTURE. PROVIDE THE FOLLOWING:
 - (2) OUTLETS, WEATHER RESISTANCE GFI WITH "NET WHILE IN USE" LOCKABLE METAL COVER MOUNTED AT 18" A.F.G. (CKT# HP-6)
 - (2) LIGHT FIXTURES TYPE 'A'. (SEE FIXTURE SCHEDULE SHEET E1.1). CKT# HP-8. PROVIDE A WEATHERPROOF SWITCH FOR CONTROLS.

NOTE: VERIFY EXACT LOCATION OF OUTLETS AND LIGHTS IN SHADE STRUCTURE WITH VENDOR PRIOR TO ROUGH-IN AND COMPLY ACCORDINGLY.
- PROVIDE 3/4" CONDUIT WITH 4-#10, 1-#10 E.G. 2-#10 = OUTLETS 2-#10 = LIGHTS
- ALL CONDUITS AND CONNECTORS FOR ELECTRICAL ELEMENTS ON SHADE STRUCTURES SHALL BE PAINTED TO MATCH COLUMNS OR UNDERSIDE OF ROOF AS NEEDED.
- EXISTING TECO UTILITY SWITCH GEAR TO REMAIN.
- INTERNALLY LIT SIGN.
- PROVIDE A WEATHERPROOF J-BOX WITH 20AMP MAINTENANCE SWITCH. RUN CIRCUIT VIA CONTACTOR 'C1'.
- EXISTING CITY CONTROLLER TO BE USED TO CONTROL PARK'S LIGHTING, SHELTER LIGHTING AND RECEPTACLES AND PARK LIT SIGN.
- 2-#8, 1-#8 E.G. IN 1" CONDUIT THROUGHOUT THE CIRCUIT.



LIGHT POLE SHOP DRAWINGS

INCLUDED WITH THE POLE SHOP DRAWING SUBMITTAL SHALL BE A SIGNED AND SEALED DRAWING OF THE SITE LIGHTING POLE BASE DESIGN SHOWING BASE DEPTH. CALCULATION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER WITH AN ACTIVE LICENSE IN THE STATE OF FLORIDA. CALCULATION SHALL BE BASED ON SOIL INFORMATION AT ACTUAL SITE. (ALL COST ASSOCIATED WITH THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR).

MOUNTING DETAIL FOR 'SA & SB'

The diagram shows a cross-section of a light pole mounting detail. It includes a luminaire at the top, an electrical contractor to coordinate tenon type, a pole rated for 141 MPH wind velocity, an access hole with cover and ground lug, a 5/8" x 10'-0" copper clad ground rod, and a #6 ground wire. The drawing is labeled 'NOT TO SCALE' and includes a note about the drawing being signed and sealed by a registered professional engineer.

TYPE	LANDSCAPE FORMS INC. No.	LUMENS	OPTICS	WATTS	VOLTAGE
SA	AG500L5-056F-40K-UVI-14-TW1	3434	TYPE 5	57	240
SB	AG500L3-046F-40K-UVI-14-TW1	2769	TYPE 3	48	240

FINISH COLOR SHALL BE SELECTED BY OWNER/CIVIL ENGINEER

FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	VOLT	LAMPS	MOUNTING	LOAD WATTS
A	LUMINAIRE LED	SM23-50N-0-CC-4000K-120-271-BI-CBA-FLH	MAX CONFINEMENT SURFACE MOUNTED LUMINAIRE	120	LED 5064 LUMENS	SURFACE	55

CBA = COLOR AS SELECTED BY ARCHITECT.

NOTES:
 1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES. FIXTURES, ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE NOTES.
 2. ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.
 3. ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING SYSTEM.
 4. WHERE USED, ALL LINEAR TYPE FLUORESCENT LUMINAIRES SHALL COMPLY WITH N.E.C. 410.130(G) FOR BALLAST DISCONNECT.

5. SHOP DRAWINGS SHALL INCLUDE:
 A. COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.
 B. BALLAST CUT SHEETS.
 C. LAMP CUT SHEETS.

6. CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED. VERIFY WITH MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.

FGP AREA LIGHT

Product Data Sheet



landscape forms

FIXTURE TYPE 'SA' & 'SB'

FGP has a pleasing flower-like organic form created by three stems that rise from the connection with the pole. The soft, triangular head holds LEDs in triangular arrays that cast illumination between the verticals in a clean footprint. The area light is ideal for pedestrian spaces such as campuses, parks and plazas, helping to create public spaces that are usable 24 hours a day. LED light sources are energy efficient. Lamps are finished using Landscape Forms' proprietary Pangard II powdercoat finish.

LED Technology

The area light employs solid state LED technology that provides exceptional energy efficiency and very long life. Designed to maximize this potential by managing the thermal properties of LEDs, the FGP area lights cast aluminum heat sink and housing efficiently dissipate heat. FGP uses full spectrum LED light engines that provide outstanding color rendering ability. The thermally managed integrated diffuser lens reduces glare, improving the visual experience.

Electrical

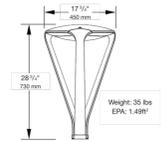
Surge protected 100V-277V 50/60 Hz, Class 2 integrated dimmable driver. LED cartridge with weatherproof quick disconnect provides ease of installation and serviceability. FGP Pedestrian ships pre-wired.

FGP Area Type 3

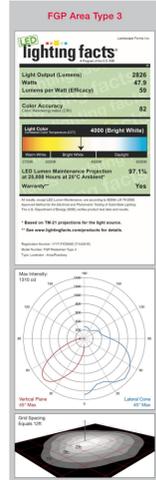
Type 3 Distribution
 Fixture: Cast Aluminum
 Lamp: 30 Cree XP-G2 LEDs
 CCT: 3000K, 3500K, 4000K
 Drive Current: 450mA
 Optic: LED's STRATA
 Lens: Impact Modified Acrylate®
 Power Supply: 100V-277V
 LED Driver: TRP PLED 50W
 Dimmable: 0-10V
 BUG Rating: B1 U2 G1
 IP Rating: IP66

FGP Area Type 5

Type 5 Distribution
 Fixture: Cast Aluminum
 Lamp: 30 Cree XP-G2 LEDs
 CCT: 3000K, 3500K, 4000K
 Drive Current: 560mA
 Optic: LED's STRATA
 Lens: Impact Modified Acrylate®
 Power Supply: 100V-277V
 LED Driver: TRP PLED 60W
 Dimmable: 0-10V
 BUG Rating: B2 U2 G1
 IP Rating: IP66



page 1 of 2



Landscape Forms, Inc. | 800.521.2546 | F. 269.381.3455 | 7800 E. Michigan Ave., Kalamazoo, MI 49008

FGP AREA LIGHT

Product Data Sheet



landscape forms

Finish

Pangard II® offered exclusively by Landscape Forms, is a 19-step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order

Specify: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Height, optional 7-pin (ANSI 136.41) Twist Lock receptacle, and Powdercoat Color

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Height	Twist Lock
AG FGP	500L3 (30 LED Type 3)	046F (450 mA)	40K (4000K)	LV1 (100-277VAC)	12 (144in)	NTW (No Twist Lock)
	500L5 (30 LED Type 5)	056F (560 mA)	30K (3000K)		14 (168in)	TW1 (Twist Lock)

EXAMPLE: AG - 500L3 - 046F - 30K / LV1 - 12 - TW1 - Powdercoat Color

Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty

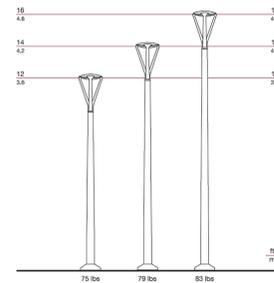
LED lighting products are warranted for six years.

Other

UL Listed, RoHS Compliant, Next Generation Luminaires Winner
 U.S. Patent D752,268



Designed by Francisco Gomez Paz



page 2 of 2
 rev. 05/2018

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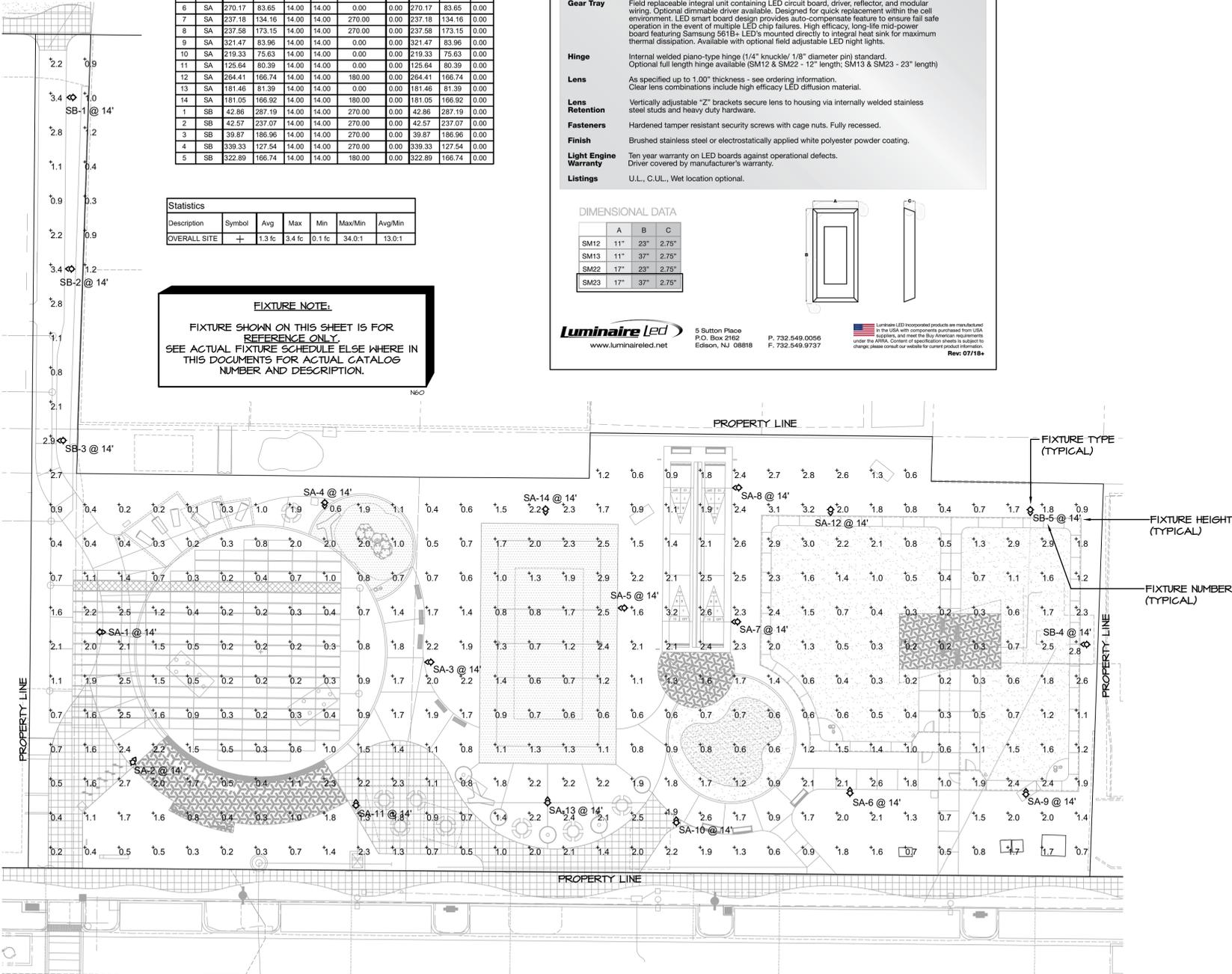
Landscape Forms, Inc. | 800.521.2546 | F. 269.381.3455 | 7800 E. Michigan Ave., Kalamazoo, MI 49008

Symbol	Label	QTY	Manuf.	Catalog Number	Description	Lamp	Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
SA	SA	14	Landscape Forms Inc.	AG500L5-056F-40K-LV1-14-TW1	Pedestrian style pole	30 white LEDs	1	LF_FGP_PedestrianType5_40K.ies	3934	0.9	56.26
SB	SB	5	Landscape Forms Inc.	AG500L3-046F-40K-LV1-14-TW1	Pedestrian style pole	30 white LEDs	1	LF_FGP_PedestrianType3_40K.ies	2769	0.9	47.74

Luminaire Locations											
		Location						Aim			
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z	
1	SA	50.62	131.05	14.00	14.00	90.00	0.00	50.62	131.05	0.00	
2	SA	60.09	93.07	14.00	14.00	40.03	0.00	60.09	93.07	0.00	
3	SA	147.43	122.48	14.00	14.00	270.00	0.00	147.43	122.48	0.00	
4	SA	116.46	168.84	14.00	14.00	180.00	0.00	116.46	168.84	0.00	
5	SA	204.05	138.06	14.00	14.00	270.00	0.00	204.05	138.06	0.00	
6	SA	270.17	83.65	14.00	14.00	0.00	0.00	270.17	83.65	0.00	
7	SA	237.18	134.16	14.00	14.00	270.00	0.00	237.18	134.16	0.00	
8	SA	237.58	173.15	14.00	14.00	270.00	0.00	237.58	173.15	0.00	
9	SA	321.47	83.96	14.00	14.00	0.00	0.00	321.47	83.96	0.00	
10	SA	219.33	75.63	14.00	14.00	0.00	0.00	219.33	75.63	0.00	
11	SA	125.64	80.39	14.00	14.00	0.00	0.00	125.64	80.39	0.00	
12	SA	264.41	166.74	14.00	14.00	180.00	0.00	264.41	166.74	0.00	
13	SA	181.46	81.39	14.00	14.00	0.00	0.00	181.46	81.39	0.00	
14	SA	181.05	166.92	14.00	14.00	180.00	0.00	181.05	166.92	0.00	
1	SB	42.86	287.19	14.00	14.00	270.00	0.00	42.86	287.19	0.00	
2	SB	42.57	237.07	14.00	14.00	270.00	0.00	42.57	237.07	0.00	
3	SB	39.87	186.96	14.00	14.00	270.00	0.00	39.87	186.96	0.00	
4	SB	339.33	127.54	14.00	14.00	270.00	0.00	339.33	127.54	0.00	
5	SB	322.89	166.74	14.00	14.00	180.00	0.00	322.89	166.74	0.00	

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
OVERALL SITE	+	1.3 fc	3.4 fc	0.1 fc	34.0:1	13.0:1

FIXTURE NOTE:
 FIXTURE SHOWN ON THIS SHEET IS FOR REFERENCE ONLY. SEE ACTUAL FIXTURES FOR ACTUAL CATALOG NUMBER AND DESCRIPTION.



NORTH
PHOTOMETRIC SITE PLAN
 SCALE: 1" = 20'-0"

CHEHAYEB & ASSOCIATES, INC.
 CONSULTING PROFESSIONAL ENGINEERS
 3702 AZEEL ST. TAMPA, FL 33609 (813) 876-1415 (fax) 876-0913
 LIC. #49521 SOUHEIL CHEHAYEB 18-65 CERT. #7340

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 FL Lic. # LC-C000170



NO.	REVISION	DATE	BY
3	FINAL PLANS	18.12.17	
2	100% CD CLIENT REVIEW	18.05.15	KMJ
1	60% CD CLIENT REVIEW	17.08.15	KMJ

Client/Project
 CITY OF TAMPA
 MADISON STREET PARK
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
 PHOTOMETRIC SITE PLAN
 Permit-Seal

Project Number: 215612562
 SCALE: AS NOTED

RR	SS	SS	18.10.08
Dwn.	Chkd.	Dsgn.	YY.MM.DD

 Drawing No. E1.1
 Revision Sheet

PROJECT NOTES

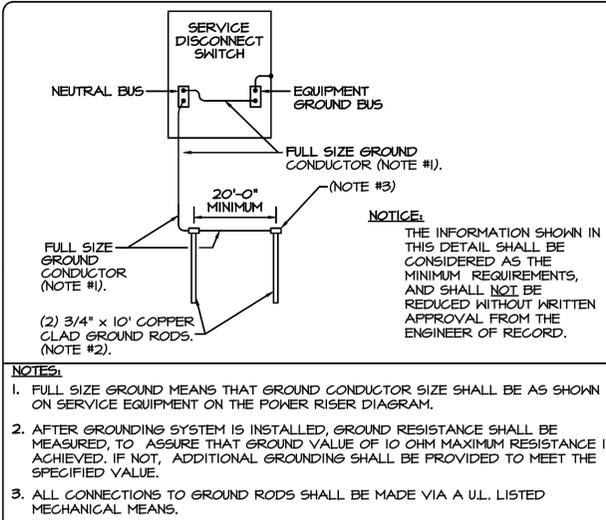
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND CHAPTER 5 OF CITY OF TAMPA CODE.
- ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
- ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR TO PAY FOR ALL PERMITS, UTILITY FEES, INSPECTIONS AND TESTING.
- ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. CONDUCTORS #12 AND SMALLER MAY BE SOLID; ALL THOSE #10 AND LARGER TO BE STRANDED.
- ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. MINIMUM CONDUIT UNDERGROUND SHALL BE 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
- DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION-PROOF, ETC.).
- ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON; HOWEVER, COMPARABLE DEVICES BY HUBBELL OR PASS & SEYMOUR WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE IVORY OR AS DICTATED BY ARCHITECT/OWNER.
 - A. SWITCHES: #1221-2 SERIES.
 - B. RECEPTACLES: #5362 SERIES.
 - C. COVER PLATES: SMOOTH PLASTIC

NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.
- ALL RACEWAYS AND PIPES, SPACED IN OR THROUGH ANY CONCRETE SLAB, SHALL BE SPACED A MINIMUM OF THREE TIMES THE DIAMETER OF THE LARGEST RACEWAY.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C.
- LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
- CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
- ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. SYSTEM DESIGN IS BASED ON THE SQUARE 'D' COMPANY; HOWEVER, COMPARABLE EQUIPMENT BY EATON, G.E., AND SIEMENS WILL BE ACCEPTABLE. TANDY AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE PER N.E.C. 110.16 FOR ALL SWITCHBOARDS AND PANELS.
- ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
- THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL UTILITY COMPANIES AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANIES' REPRESENTATIVES TO MEET THE OWNER'S SCHEDULE.
- ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER UL ASSEMBLY STANDARDS.
- CONDUIT SYSTEM REQUIREMENTS:**
 - UNDERGROUND - PVC WITH RIGID 90 THROUGH SLAB.
 - ABOVE FINISH FLOOR, CEILINGS, ETC. (INDOOR) - EMT WITH COMPRESSION TYPE STAINLESS STEEL FITTINGS.
 - GALVANIZED RIGID CONDUITS - ABOVE GRADE AND WHERE SUSCEPTIBLE TO PHYSICAL DAMAGE.
 - FLEXIBLE CONDUITS - INDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0".
 - SEALTITE - OUTDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0".
- CONDUCTOR COLOR CODING:**

THE FOLLOWING APPLICABLE COLOR CODES SHALL BE IMPLEMENTED AND POSTED IN ALL PANELS, DISCONNECT SWITCHES, ETC., PER NEC ARTICLES 200.6(D) AND 215.12:

	120/240V, 1-PH.
PHASE 'A'	BLACK
PHASE 'B'	RED
PHASE 'C'	-
NEUTRAL	WHITE
GROUND	GREEN
ISOL. GROUND	GREEN/YELLOW

GROUNDING DETAIL



2017 FLORIDA BUILDING CODE, ENERGY CONSERVATION (6TH EDITION)

SECTION C405.6 ELECTRIC POWER

C405.6.3 VOLTAGE DROP
THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.

C405.6.4.1 DRAWINGS
CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:

- A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
- FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

C405.6.4.2 MANUALS
CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT RATINGS AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

SECTION C408 SYSTEM COMMISSIONING

C408.3.1 FUNCTIONAL TESTING:

- PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.

NOTES

- EXISTING 1-PHASE 120/240V, TRANSFORMER TO REMAIN. COORDINATE WITH TECO FOR ACCESS TO THE TRANSFORMER.
- EXISTING 20 AMP, 1-PHASE, 120V, ENCLOSED CIRCUIT BREAKER TO BE REMOVED. RELOCATE LOAD TO NEW PANEL 'HP'.
- 12-POLE, ELECTRICALLY HELD CONTACTOR, IN A STAINLESS STEEL ENCLOSURE, WITH 120V COIL, EQUAL TO ABB-A16-120L-00-04(120V, COIL). CONTACTOR SHALL BE CONTROLLED BY EXISTING CITY CONTROLLER. PROVIDE 1" CONDUIT WITH WIRE AS REQUIRED BETWEEN CONTACTORS AND CITY CONTROLLER PANEL. COORDINATE WITH KEN STEAD @ (B13) 640-7111 OR MARK NEUBERGER @ (B13) 478-5280 FOR CONTROL REQUIREMENT AND PROVIDE ACCORDINGLY. C1 - PHOTOCELL ON TIMECLOCK OFF. C2 - PHOTOCELL ON PHOTOCLOCK OFF. STAINLESS STEEL ENCLOSURE SHALL BE PROVIDED BY CONTRACTOR. NOT A STANDARD FROM MANUFACTURER.
- PROVIDE NEW 3-#10 IN AN EXISTING 1-1/2" PVC CONDUIT.
- EXISTING 200 AMP SELF CONTAINED METER ENCLOSURE, TO REMAIN AND BE REUSED.
- CONTRACTOR TO LEAVE A MINIMUM 5'-0" SLACK CONDUCTOR FOR TERMINATION BY POWER COMPANY.
- #4 CU SERVICE GROUND PER DETAIL, THIS SHEET.
- SURGE SUPPRESSOR EQUAL TO SURGE SUPPRESSION INC #STM21S1-X. CONNECT WITH ATTACHED LEADS PER MANUFACTURER'S INSTRUCTIONS.

SERVICE ENTRANCE RATED

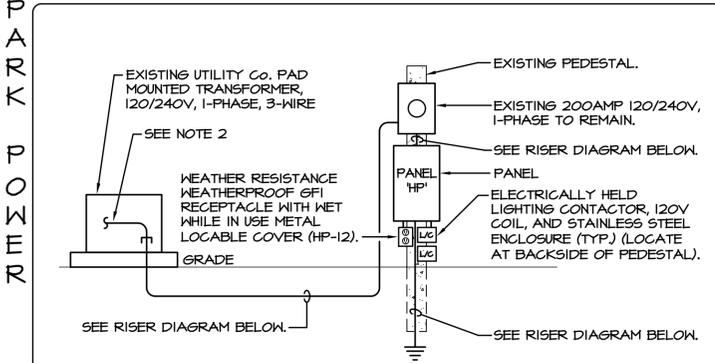
MANUFACTURER: SQUARE 'D'	PANEL: HP	LOCATION: PEDESTAL MOUNT	SPECIAL: STAINLESS STEEL ENCLOSURE
PANEL TYPE: PANELBOARD	FED FROM: UTILITY XFMR 120/240 VOLTS	1 PHASE 3 WIRE/SOLID NEUTRAL	AMPERE BUS 150 AMPERE MAIN 150
22K INTERRUPTING CAPACITY (AIC)	RATED SERIES: - FULL: X	MOUNTING: FLUSH - SURFACE X	MAIN TYPE BREAKER

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.	
1	0.4	C1	(*)	(*)	(*)	SITE LIGHTING	L	20	1.2			20	R	SHADE STRUCTURE REC.	(*)	(*)	(*)	C1	0.8	2
3	0.4	C1	(*)	(*)	(*)	SITE LIGHTING	L	20	0.7	0.8		20	L	SHADE STRUCTURE LTG	(*)	(*)	(*)	C1	0.4	4
5	0.3	C2	(*)	(*)	(*)	SITE LIGHTING	L	20	0.7			20	R	SHADE STRUCTURE REC.	(*)	(*)	(*)	C1	0.4	6
7	0.3	C2	(*)	(*)	(*)	SITE LIGHTING	L	20	0.4	0.7		20(L)	L	SHADE STRUCTURE LTG	(*)	(*)	(*)	C1	0.4	8
9	0.0	-	-	-	-	SPARE	-	60	0.4			20	R	SHADE STRUCTURE REC.	(*)	(*)	(*)	C1	0.4	10
11	0.0	-	-	-	-	SPARE	-	20	0.0	0.4		20	R	RECEPTACLE	2#12	1#12	1/2"	C1	0.4	12
13	1.2	C1	(*)	(*)	(*)	SIGN	L	20	1.8			20(L)	M	CITY CONTROLLER	2#12	1#12	1/2"	(1)	0.6	14
15	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	16
17	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	18
19	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	20
21	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	22
23	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	24
25	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	26
27	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		20	-	SPARE	-	-	-	-	0.0	28
29	0.0	-	-	-	-	SPARE	-	20	0.0	0.0		30	-	SURGE SUPPRESSOR	CONNECT W/ ATTACHED LEADS	-	-	-	0.0	30

20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER	KVA SUB TOTAL:	4.1	1.9	STD. DEMAND FACTOR (1.0):	2.6	IF SERVED BY YEAR	
(*) = SEE ELECTRICAL SITE PLAN E1.0 FOR CONDUIT AND WIRE SIZES	GRAND TOTAL:	4.1	1.9	+ LTG DEMAND (1.25 LTG):	4.3		
(1) PROVIDE 20A CKT. TO POWER EXIST. CITY CONTROLLER.		0.0	0.0	+ KITCHEN DEMAND:	0.0	TOTAL DEMAND KVA:	6.9
SEE RISER DIAGRAM NOTE #2 BELOW.				DEMAND AMPERES:	28.5		

KITCHEN MULTIPLIER PER NEC 2014 TABLE 220.56

PANEL WIRING DETAIL

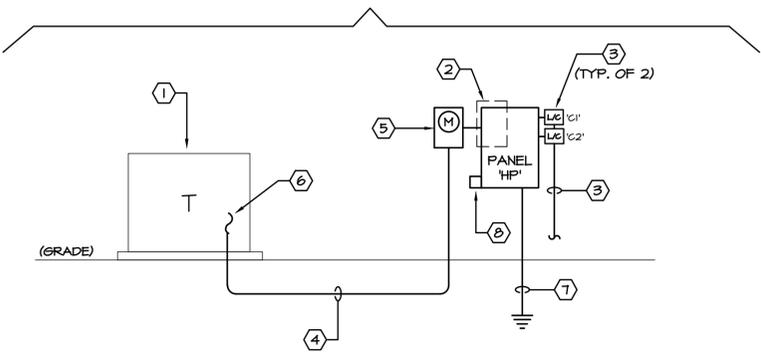


- NOTES:**
- COORDINATE LOCATION OF APPROPRIATE TRANSFORMER FOR EACH STREET LIGHTING PANEL WITH TECO REPRESENTATIVE.
 - LEAVE A MINIMUM 5'-0" SLACK CONDUCTOR FOR TERMINATION BY POWER COMPANY.

GENERAL NOTES:

- ALL NEW ELECTRICAL SERVICE EQUIPMENT INSTALLED OUTDOORS SHALL HAVE STAINLESS STEEL ENCLOSURE.
- ALL HARDWARE USED TO MOUNT ELECTRICAL EQUIPMENT OUTDOORS SHALL BE STAINLESS STEEL TO PREVENT CORROSION.
- ALL CONDUCTORS INSTALLED IN CONDUITS BELOW GRADE SHALL BE TYPE XHHW.

SEE ELEVATION OF NEW SERVICE THIS SHEET



POWER RISER DIAGRAM

NO SCALE

CHEHAYEB & ASSOCIATES, INC.
CONSULTING PROFESSIONAL ENGINEERS

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18.12.17	HS	App'd.
18.05.15	HS	
17.08.15	HS	
18.12.17	HS	
18.05.15	HS	
17.08.15	HS	

Client/Project: CITY OF TAMPA
MADISON STREET PARK
1224 E. MADISON STREET, CHANNEL DISTRICT
Title: RISER DIAGRAM AND PANEL SCHEDULE
Permit-Seal

Project Number: 215612562
SCALE: AS NOTED

RR	SS	SS	18.10.08
Desn.	Chkd.	Disgn.	YY.MM.DD

Drawing No. E2.0
Revision Sheet

DIVISION 16 - ELECTRICAL

SECTION 16010 - GENERAL PROVISIONS

- 1. GENERAL
- 1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.
- 2. DRAWINGS AND SPECIFICATIONS
- 2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division. This Contractor shall examine all such drawings and specifications and become thoroughly familiar with provisions contained herein and the submission of his bid shall be construed as indicating such knowledge.
- 2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping. Dimensions given on the plans shall be verified in the field. Drawings may not be scaled to obtain exact dimensions.
- 2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly. Should the Contractor fail to ascertain such locations, the work shall be changed at his own expense when so ordered by the Owner. The Owner reserves the right to make minor changes in the location of conduit and equipment up to the time of installation, without additional cost.
- 2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the system, shall be provided by this Contractor.
- 2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.
- 2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.
- 2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.
- 3. EXAMINATION OF SITE
- 3.01 Bidder is to visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work. The submission of a bid will be evidence that such an examination has been made. Later claims for labor, equipment or materials required, or for difficulties encountered which could have been foreseen had an examination been made, will not be allowed.
- 4. DEFINITIONS
- 4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.
- 4.02 "Furnish" shall mean to purchase and supply equipment or components.
- 4.03 "Provide" shall mean to "furnish and install".
- 4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.
- 5. INTERFERENCES
- 5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered. The Owner or Architect will determine which equipment shall be relocated regardless of which was first installed, and his decision shall be final.
- 6. MATERIALS AND WORKMANSHIP
- 6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.
- 6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects and shall be the best of their several kinds.
- 6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.
- 6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.
- 6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.
- 7. SUPPORTS
- 7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device. Conduit, fixtures, or any electrical devices shall not be supported from steel deck, bridging, ceiling, or ceiling support wires.
- 8. TEMPORARY CONSTRUCTION POWER AND LIGHTING
- 8.01 Sufficient temporary power, during construction, for heating, lighting, appliances, or motorized portable equipment shall be provided by the Electrical Contractor.
- 9. CODES, LAWS, PERMITS AND INSPECTIONS
- 9.01 Install all work in full accord with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises. This shall include all requirements of the City Building Code, regulations of the State Department of Industrial Relations, OSHA, ADA (Americans with Disabilities Act), and the requirements of the National Electric Code, as interpreted by the Local Inspection Division. All these codes, rules, and regulations are hereby incorporated into this specification.
- 9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.
- 9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities. All such certificates shall be delivered to the Owner in duplicate before final payment on contract will be allowed. The Contractor shall pay all fees, charges and other expenses in connection therewith.
- 10. FIELD CHANGES (RECORD DRAWINGS)
- 10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction. After completion of the work and before requesting final payment, the above mentioned drawings shall be delivered to the Owner.
- 11. LABELING AND NAMEPLATES
- 11.01 Permanently label transformers, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.
- 11.02 Lighting and appliance panels shall be labeled as shown on drawings.
- 11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.
- 11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.

- 11.05 Materials
 - A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.
- 11.06 Installation
 - A. Degrease and clean surfaces to receive nameplates and tape labels.
 - B. Install nameplates and tape labels parallel to equipment lines.
 - C. Secure nameplates to equipment fronts using screws, rivets or adhesive. Secure nameplates to inside face of recessed panelboard doors in finished locations.
 - D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.
- 11.07 Wire Identification:
 - A. Provide wire markers on each conductor at terminal strips and at final line and load connections. Identify with branch circuit or feeder number of power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring or as drawings indicate.
 - B. All wires shall be color coded. Color code branch circuit wiring as follows:

	120/208V, 1-Ph.	120/240V, 1-Ph.	120/208V, 3-Ph.
Phase A	Black	Black	Black
Phase B	Red	Red	Red
Phase C	-	-	Blue
Neutral	White	White	White
 - 3. Switched Wires: Other than colors listed above
 - 4. Travelers Between 3-Way Switches: Purple
 - 5. Insulated Ground: Green

- 12. GUARANTEE
- 12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period, at his sole expense. This one (1) year period shall start from the date of final acceptance by Owner.
- 13. SCOPE OF WORK
- 13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.
- 13.02 The listing herein of article or material, operation or method, required that the Contractor shall provide and install, unless noted to be supplied by others, each item listed of quality or subject to qualification noted. Each operation shall be performed according to standard practice, manufacturer's instructions and conditions stated, providing, therefore, all necessary labor, equipment and incidentals.
- 13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors employed on this project.
- 13.04 The electrical work shall include but is not limited to the following:
 - A. Complete power and lighting distribution systems including panels, as shown on plans.
 - B. Complete branch circuit wiring system.
 - C. Temporary electric service as required for construction.
 - D. Testing of all electrical equipment.
 - E. Provide and install complete site lighting system as shown on plans.

- 14. MANDATORY SHOP DRAWINGS
- 14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.
- 14.02 Shop Drawings shall be submitted for:
 - Switchgear
 - All Site Lighting Fixtures
 - All Wiring Devices

SECTION 16100 - BASIC MATERIALS AND METHODS

- 1. CONDUIT
- 1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (EMT), unless otherwise specifically stated herein.
 - A. Conduit below first floor slab or underground shall be rigid, threaded, galvanized, heavy wall type.
 - B. Conduit exposed to weather shall be rigid, threaded, galvanized, heavy wall type and shall be painted with an approved bitumastic coating to prevent corrosion.
 - C. Carlon PVC, Type 40 heavy wall conduit with ground wire may be used underground below floor slab or pavement in lieu of threaded, galvanized conduit. PVC schedule 40 conduit shall not be run in or above first floor slab. PVC conduit shall terminate below floor slab with rigid, threaded metal conduit adapter. Conduit above slab shall be metal.
 - D. A ground conductor shall be supplied in all conduits and raceways. The ground conductor shall be copper, and sized per the N.E.C. or as shown on drawing whichever is more stringent.
 - E. PVC conduit run beneath areas subject to heavy vehicular traffic such as commercial parking areas, drive through, etc., shall be concrete encased. This conduit shall comply with NEMA TC-6 and -8 (Power), TC-10 (Telephone), ASTM F512 (Concrete Encasement Applications) and UL-651 (Standard).
 - F. PVC conduit used between lighting standards shall be Carlon Type 40 min. and comply with NEMA TC-2, TC-3, and UL-651 (Std.).
- 1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriters' Laboratories label.
- 1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.
- 1.04 E.M.T. connectors and couplers shall be compression type made of stainless steel as manufactured by Thomas & Betts, Steel City, or Applintex. Bends and offsets shall be made with a hickey or power bender without kinking or destroying the smooth bore of the conduit. Paralleled conduits shall run straight and true with offsets uniform and symmetrical. Conduit terminals at boxes and cabinets shall be rigidly secured with locknuts and bushings as required by the National Electrical Code and local electrical codes. Insulated bushings shall be used on all conduit 1-1/4" trade size and larger.

- 1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each conduit, elbow and at the end of each straight run, terminating at a box or cabinet. Conduit shall not be suspended from the ceiling or ceiling suspension wires.
- 1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets. Conduit shall be supported from structural steel or joist and independent of other piping. DO NOT support conduit from metal roof deck or any other support device of another trade.
- 1.07 Armored cable (BX) shall not be used.
- 1.08 No aluminum conduit shall be used.
- 1.09 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit. Flexible conduit exposed to weather shall be Sealite.
- 1.10 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.
- 1.11 Conduit system shall conform to all the requirements of the National Electrical Code (N.E.C./NFPA-70) and local codes.
- 1.12 Nonmetallic sheathed cable (Romex) may be used where allowed by N.E.C. (latest edition) and by local authority having jurisdiction, except where shown otherwise in these documents. See sheet E1J and E1.2 for restrictions.
- 2. CONDUCTORS
- 2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits. All wiring shall have the U.L. label and be of 99% conductivity copper. Aluminum wire or aluminum cable is not acceptable.
 - A. The gauge of all wire shall be in accordance with B45 standard.
- 2.02 All wire and cable for branch lighting or small power circuits shall have "NEC" Type "THHN" or "THHN" 600-volt insulation.
- 2.03 Wire and cable above #12 gauge shall be stranded Type "THHN/THHN" insulated for 600-volts.
- 2.04 For special conditions, as provided by the National Electrical Code, Type "RHH, A.V.A." or other required insulation shall be used.
- 2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.

- 3. GROUNDING
- 3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures. A good mechanical and electrical connection shall be made with approved grounding connectors.
- 3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.
- 3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.
- 3.04 System ground shall not exceed a maximum of ten (10) OHMS resistance. Test grounding system and add additional grounding as required to meet the above specified value.
- 3.05 Main grounding system shall be sized to conform with Section 250, Table 250-44 of the National Electrical Code. Provide conduit to protect wire from damage to an area eight feet (8') above floor.
- 3.06 A ground conductor shall be supplied in ALL conduit and nonmetallic sheathed cable. It shall be insulated, stranded, annealed copper conductor.
- 4. TOGGLE SWITCHES AND RECEPTACLES
- 4.01 All general receptacles and switches shall be 20 amps rated, commercial grade, standard style. Color shall be verified with owner/architect.
- 4.02 Acceptable device manufacturers are Hubbell, Arrow Hart, Leviton, or Bryant. This basis of design is Leviton.
- 4.03 Wall Switches: commercial grade (standard style)
 - A. Single poles #1221, Three (3) way switches #1221-3, and Four way #1221-4 shall be rated 20-ampere, 120/277 volts.
 - B. Switches shall be mounted 4'-0" above finished floor to centerline.
- 4.04 Tamper resistance duplex receptacles shall be 20-ampere at 125-volts, commercial grade Decora style, Leviton catalogue #15825 or approved equal. Mount at 18" above floor to centerline or as noted on plans.
- 5. WALL PLATES
- 5.01 Unless otherwise noted, all plates in finished areas for wall switches, receptacles and telephone outlets shall be white.
- 5.02 All plates shall have full contact with the wall and boxes. Edges shall be parallel to the finished walls and ceilings.
- 6. OUTLETS
- 6.01 Locations of outlets are shown approximately on the drawings. Contractor shall refer to the shop drawings of the manufacturers of the equipment for the exact location of outlets for fixtures, motors, heaters and their respective control devices. Approximate locations of light fixtures are shown on the drawings.
- 6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge, except floor boxes which shall be cast iron. Each ceiling outlet designated for a lighting fixture shall have a fixture support secured in place with nuts and bolts. Ceiling boxes shall be four inches (4") round and octagonal with lugs and screws for back plates. Wall outlets shall be four inches (4") square by 1-1/2" deep, single or double cover, except gang boxes of similar depth shall be used at locations requiring more than 2-gang.
- 6.03 Outlets on the exterior of the building and where shown on the plans, shall be flush weatherproof type.
- 6.04 All outlets shall be firmly secured in place. Outlets in finished areas shall be flush with finished ceiling or walls.
- 6.05 All outlet locations in floor shall be verified with Owner's Representative before pouring of concrete floor.

- 7. BRANCH CIRCUIT WIRING
 - 7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.
 - 7.02 All circuits shall be color coded where applicable.
- END OF SECTION 16100

SECTION 16400 - ELECTRICAL SERVICE AND DISTRIBUTION

- 1. SECONDARY SERVICE
- 1.01 Electrical service shall be secondary, as shown on plans with grounded neutral and secondary metering. Provide all necessary equipment and material and install the service, metering and distribution equipment accordingly.
- 1.02 The Electrical Contractor shall be responsible for contacting the power company to secure complete details and schedule if necessary.
- 1.03 Electrical Contractor shall provide secondary service cables and conduits as shown on plans.
- 1.04 Site electrical, including provisions for the primary services lines and transformer shall be coordinated with local power company by Electrical Contractor.
- 1.05 Provide coordination, via the General Contractor, of the Site Electrical Contractor for the final locations, penetrations, and service tie-ins associated with secondary power service entrance conduits.
- 2. FUSES
- 2.01 This Contractor shall replace all fuses blown during construction and testing and shall provide a complete set of fuses in all fuse holders, switches, panels and all other devices requiring fuses.

- 2.02 Fuses shall be as indicated on plans.
 - A. Provide label in each switch indicating fuse type, ampere rating and interrupting rating.
 - B. Replace all blown fuses up to final acceptance of job.
 - 2.03 Fuses shall be as specified herein and indicated on drawings. In the event the Electrical Contractor wishes to furnish materials other than those specified, a written request, along with complete application data to assure a selectively coordinated system, shall be submitted to the Engineer for evaluation. Alternate manufacturer is Littelfuse.
 - 3. SAFETY SWITCHES
 - 3.01 Provide horsepower rated, quick-make, quick break, general duty safety switches with the number of poles and fuses as required.
 - 3.02 Switches shall have arc shields, to be of heavy enclosed construction and fusible or non-fusible as indicated. Switches shall be rated for 240 volt AC.
 - 3.03 All switches shall be capable of interrupting locked rotor current of motor which it serves.
 - 3.04 Enclosures: NEMA 1 for interior use, stainless steel for exterior use unless noted otherwise.
 - 3.05 Provide dual-element type fuses (fusestrons) for any fusible safety switch serving a motor circuit.
 - 3.06 Provide non-fusible switches at remote motor locations (rain-light where required) as indicated on the drawings.
 - 3.07 Identify safety switches with bakelite nameplates in accordance with Section 16101.
 - 4. DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)
 - 4.01 Panels, shall be, Panel board type, dead front type, copper buss, with lugs only in the main and branch circuits as indicated on the drawings. Panels shall have 20 amp single 2-pole circuit breakers (capable of interrupting available short circuit current) as required in each branch circuit. Where breakers larger than 20 amperes are required, the sizes are noted on the drawings. Breakers shall be Bolted to the bus type, quick-make, quick-break and capable of interchanging 1 or 2-pole units. Multiple units shall be common trip. Provide spare breakers in each panel as shown. All lugs shall be UL approved CU/AL type.
 - 4.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings. As finish of job, Electrical Contractor shall take current reading checks of respective phases. A minimum of circuit connections shall be rearranged to balance (as closely as possible) the load on the panel.
 - 4.03 Panels shall be enclosed in galvanized steel of code thickness. Cabinets shall be large enough to allow standard size wiring gutters on each side, top and bottom of panels. Mount not over 6'-6" from floor to top of panels.
 - 4.04 Panels shall be provided with spares and full provisions for future breakers as shown.
 - 4.05 Panels shall be manufactured as a complete unit by Siemens-ITE, Square D, General Electric Company or Challenger, not an assembly of parts secured from a supply house.
 - 4.06 Panelboards and switches shall be identified for "usage".
 - 5. GENERAL:
 - 5.01 Metal framed card holders with typewritten circuit directory must be provided for each panel. Directory shall be clear and designation shall match identification on equipment. Panelboards distribution, power panels and lighting panels) shall be identified by a label on the switch and/or panel door. Provide engraved laminated phenolic nameplates with 3/8" letters engraved through black to white.
 - 5.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type UL approved lugs.
 - 5.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.
- END OF SECTION

SECTION 16500 - LIGHTING

- 1. LIGHTING FIXTURES
 - 1.01 All fixtures shall be as shown on Fixture Schedules, and approved by owner.
 - 1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.
 - 1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.
 - 1.04 All fixtures shall be new and undamaged.
 - 1.05 Surface-mounted fluorescent fixtures shall be mounted 6" from ceiling. Mount spacers and supports on 48" centers with additional support at the end of each row of fixtures.
 - 1.06 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angle, rods, etc. In general, fixtures shall be supported in a manner acceptable to the local inspection authorities. All fixtures shall be firmly supported from beams or joists.
 - 1.07 This Contractor shall support all fixtures from building structural members and NOT from ceiling system.
- END OF SECTION 16500



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18.12.17	18.05.15	17.08.15	YYMMDD
By	By	By	By
3 FINAL PLANS	2 100% CD CLIENT REVIEW	1 60% CD CLIENT REVIEW	ISSUED
KMJ	KMJ	KMJ	

Client/Project
CITY OF TAMPA

MADISON STREET PARK
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
ELECTRICAL SPECIFICATIONS

Permit-Seal

Project Number: **215612562**

SCALE: AS NOTED

RR	SS	SS	18.10.08
Dwn.	Chkd.	Dsgn.	YYMMDD

Drawing No. **E3.0**

Revision Sheet

0 4 of 4

CHEHAYEB & ASSOCIATES, INC.
 CONSULTING PROFESSIONAL ENGINEERS

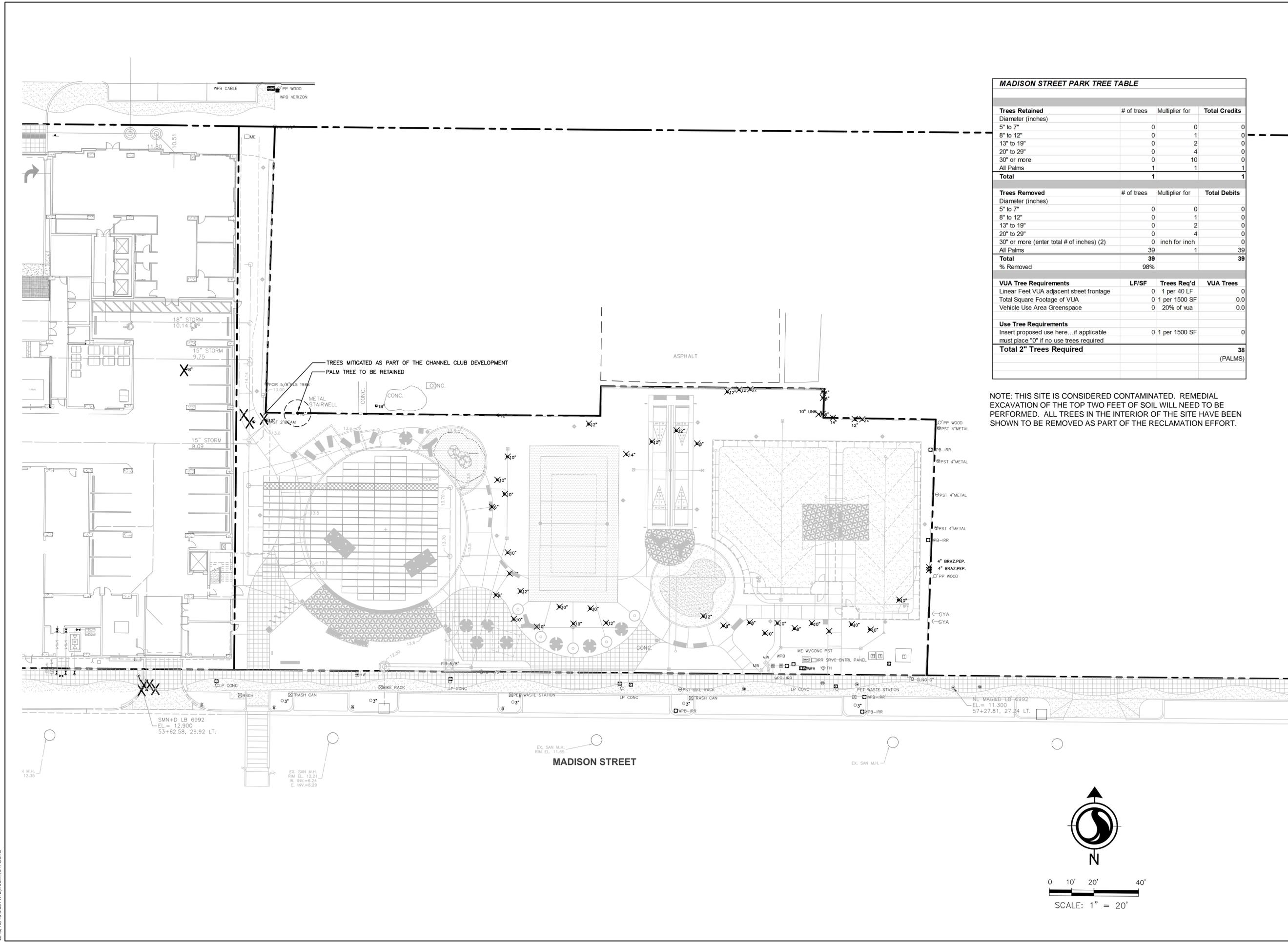
3702 AZEEL ST.
 TAMPA, FL 33609

(813) 876-1415
 (fax) 876-0919

LIC. #49521 SOUHEL CHEHAYEB CERT. #7340
 18-65

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MADISON STREET PARK TREE TABLE			
Trees Retained	# of trees	Multiplier for	Total Credits
Diameter (inches)			
5" to 7"	0	0	0
8" to 12"	0	1	0
13" to 19"	0	2	0
20" to 29"	0	4	0
30" or more	0	10	0
All Palms	1	1	1
Total	1		1
Trees Removed	# of trees	Multiplier for	Total Debits
Diameter (inches)			
5" to 7"	0	0	0
8" to 12"	0	1	0
13" to 19"	0	2	0
20" to 29"	0	4	0
30" or more (enter total # of inches) (2)	0	inch for inch	0
All Palms	39	1	39
Total	39		39
% Removed	98%		
VUA Tree Requirements	LF/SF	Trees Req'd	VUA Trees
Linear Feet VUA adjacent street frontage	0	1 per 40 LF	0
Total Square Footage of VUA	0	1 per 1500 SF	0.0
Vehicle Use Area Greenspace	0	20% of vua	0.0
Use Tree Requirements		0 1 per 1500 SF	0
Insert proposed use here...if applicable must place "0" if no use trees required			
Total 2" Trees Required			38 (PALMS)

NOTE: THIS SITE IS CONSIDERED CONTAMINATED. REMEDIAL EXCAVATION OF THE TOP TWO FEET OF SOIL WILL NEED TO BE PERFORMED. ALL TREES IN THE INTERIOR OF THE SITE HAVE BEEN SHOWN TO BE REMOVED AS PART OF THE RECLAMATION EFFORT.

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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawings. Any errors or omissions shall be reported to Stantec, without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is prohibited.

Revision	By	App'd	Y1	MM	DD	
5	FINAL PLAN / BID PLAN	OJ	HS	18	12	14
4	100% CD	OJ	HS	18	10	08
3	90% CD CITY REVIEW	OJ	HS	18	07	02
2	SWP/WD SUBMITTAL	KMJ	HS	18	05	22
1	100% CD CLIENT REVIEW	KMJ	HS	18	05	15

ISSUED

TO THE BEST OF THE ARCHITECTS OR ENGINEERS KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

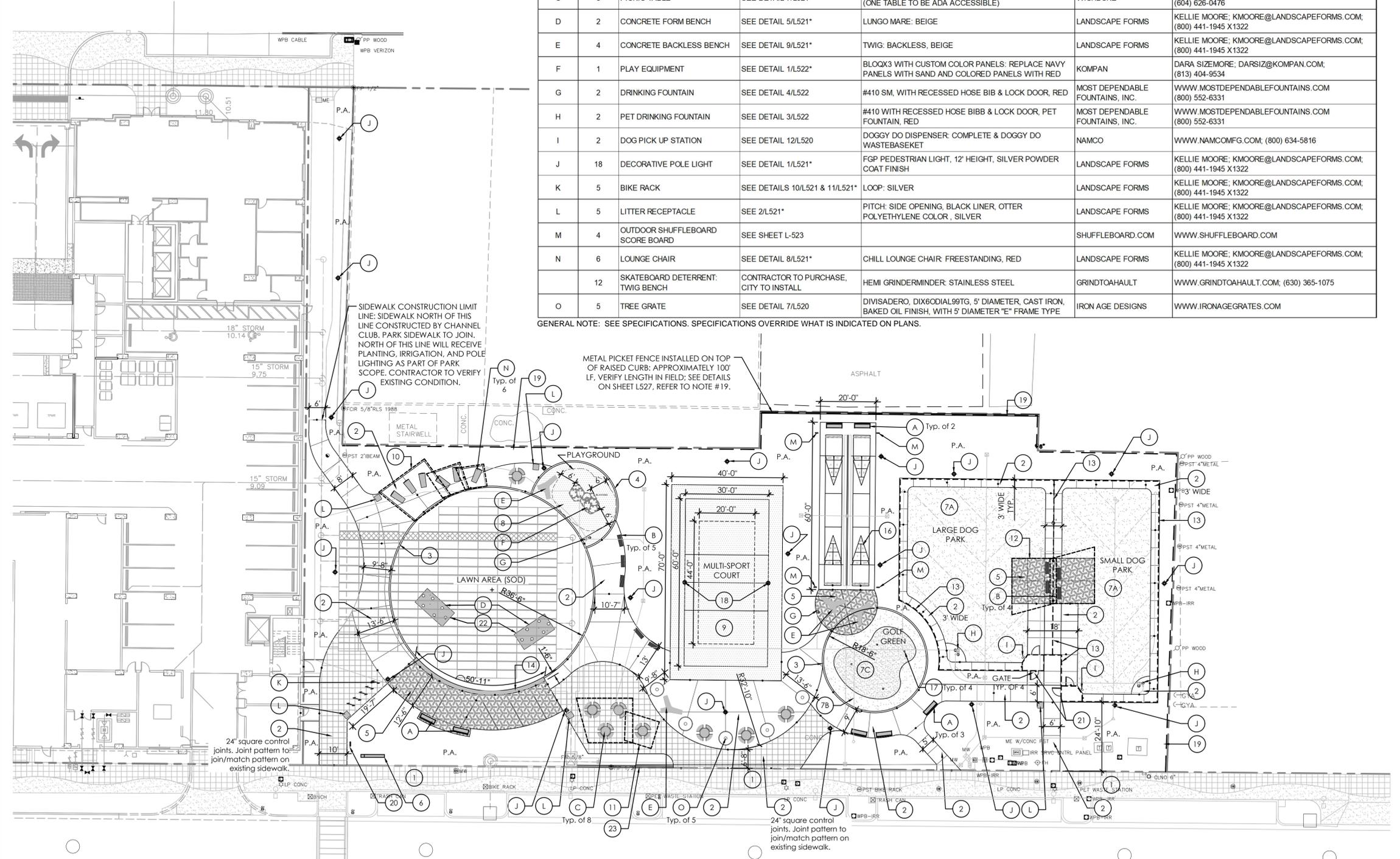
Client/Project: CITY OF TAMPA
 MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title: MITIGATION PLAN

Permit-Seal

Project Number: 215612562
 SCALE: 1"=20'
 FILE NAME: 12562-01L-110MITG.DWG
 Dwn: OJ KJ OJ 2018/10/08
 Chkd: Dsgn. YY.MM.DD
 Drawing No. L110
 Revision Sheet

SITE FURNISHINGS SCHEDULE						
ID	QTY	ITEM	DETAIL	MODEL/SPECIFICATION	SUPPLIER	SUPPLIER CONTACT
A	7	PARK BENCH	SEE DETAIL 6/L521*	STAY BENCH: WITH ARMS, WITH DIVIDERS, SILVER	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
B	9	BACKLESS PARK BENCH	SEE DETAIL 3/L521*	STAY BENCH: BACKLESS WITH ONE DIVIDER, SILVER	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
C	8	PICNIC TABLE	SEE DETAIL 7/L521*	URBAN SPACE PICNIC TABLE: SILVER (ONE TABLE TO BE ADA ACCESSIBLE)	WISHBONE	ROBIN RUDDOCK; ROBIN@WISHBONELTD.COM; (604) 626-0476
D	2	CONCRETE FORM BENCH	SEE DETAIL 5/L521*	LUNGO MARE: BEIGE	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
E	4	CONCRETE BACKLESS BENCH	SEE DETAIL 9/L521*	TWIG: BACKLESS, BEIGE	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
F	1	PLAY EQUIPMENT	SEE DETAIL 1/L522*	BLOQ3 WITH CUSTOM COLOR PANELS: REPLACE NAVY PANELS WITH SAND AND COLORED PANELS WITH RED	KOMPAN	DARA SZEMORE; DARSIZ@KOMPAN.COM; (813) 404-9534
G	2	DRINKING FOUNTAIN	SEE DETAIL 4/L522	#410 SM, WITH RECESSED HOSE BIB & LOCK DOOR, RED	MOST DEPENDABLE FOUNTAINS, INC.	WWW.MOSTDEPENDABLEFOUNTAINS.COM (800) 552-6331
H	2	PET DRINKING FOUNTAIN	SEE DETAIL 3/L522	#410 WITH RECESSED HOSE BIBB & LOCK DOOR, PET FOUNTAIN, RED	MOST DEPENDABLE FOUNTAINS, INC.	WWW.MOSTDEPENDABLEFOUNTAINS.COM (800) 552-6331
I	2	DOG PICK UP STATION	SEE DETAIL 12/L520	DOGGY DO DISPENSER: COMPLETE & DOGGY DO WASTEBASKET	NAMCO	WWW.NAMCOMFG.COM; (800) 634-5816
J	18	DECORATIVE POLE LIGHT	SEE DETAIL 1/L521*	FGP PEDESTRIAN LIGHT, 12' HEIGHT, SILVER POWDER COAT FINISH	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
K	5	BIKE RACK	SEE DETAILS 10/L521 & 11/L521*	LOOP: SILVER	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
L	5	LITTER RECEPTACLE	SEE 2/L521*	PITCH: SIDE OPENING, BLACK LINER, OTTER POLYETHYLENE COLOR, SILVER	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
M	4	OUTDOOR SHUFFLEBOARD SCORE BOARD	SEE SHEET L-523		SHUFFLEBOARD.COM	WWW.SHUFFLEBOARD.COM
N	6	LOUNGE CHAIR	SEE DETAIL 8/L521*	CHILL LOUNGE CHAIR: FREESTANDING, RED	LANDSCAPE FORMS	KELLIE MOORE; KMOORE@LANDSCAPEFORMS.COM; (800) 441-1945 X1322
O	5	TREE GRATE	SEE DETAIL 7/L520	DIVISADERO, DIX60DIAL9GT, 5' DIAMETER, CAST IRON, BAKED OIL FINISH, WITH 5' DIAMETER "E" FRAME TYPE	IRON AGE DESIGNS	WWW.IRONAGEGRATES.COM

GENERAL NOTE: SEE SPECIFICATIONS. SPECIFICATIONS OVERRIDE WHAT IS INDICATED ON PLANS.



HARDSCAPE SCHEDULE

- EXISTING CONCRETE WALKWAY TO REMAIN AND BE PROTECTED TYPICAL.
- 6" THICK CONCRETE WALK: NATURAL GRAY, HEAVY SANDBLAST FINISH, JOINTS VARY SEE PLAN, SEE DETAILS 1-5/L520.
- 6" WIDE BY 12" THICK CONCRETE BAND: NATURAL GRAY, SPONGE FLOAT FINISH, SAW CUT JOINTS, 6" O.C., SEE DETAIL 6/L520.
- 12" WIDE BY 12" THICK CONCRETE BAND: NATURAL GRAY, SPONGE FLOAT FINISH, SAW CUT JOINTS, 6" O.C., SEE DETAIL 6/L520.
- 6" THICK DECORATIVE CONCRETE PAVING: HEAVY SANDBLAST FINISH, PATTERN, SEE DETAIL 11/L520.
- PARK SIGN: SEE DETAIL 5/L522.
- SYNTHETIC LAWN: FOREVER LAWN, K-9 CLASSIC SEE DETAIL 8/L520.
- SYNTHETIC LAWN: FOREVER LAWN, GOLF FRINGE TURF STYLE, SEE DETAIL 8/L520.
- SYNTHETIC LAWN: FOREVER LAWN, PIN SEEKER TURF STYLE, SEE DETAIL 8/L520.
- PLAY SURFACE: 4.5" LAYER, PLAYCORE, DURA TURF, POURED IN PLACE WITH CONCRETE BASE, BEIGE: RH30-S, WWW.SPORTSURFACE.NET, (716) 652-2039, SEE DETAIL 9/L520. SEE DETAIL 2/L522 FOR COLOR PATTERN/GRAPHICS PLAN.
- MULTI-SPORT COURT SURFACE: SEE DETAIL 10/L520.
- PERFORMANCE SHADE STRUCTURE: SEE DETAILS 1-5/L525.
- LARGE SHADE STRUCTURE: SEE DETAILS 1-5/L524.
- DOG PARK SHADE STRUCTURE: SEE DETAILS 1-5/L526.
- DOG PARK DECORATIVE FENCE W/MATCHED 36" WIDE, SELF CLOSING SWING GATE, PROVIDE MAGNA LATCH, SEE DETAIL 4/L521.
- SEAT WALL WITH CAP: TO BE COORDINATED WITH ARTIST. SEE DETAIL 8/L522.
- NOT USED
- SHUFFLEBOARD COURTS: SEE DETAILS 1-6/L523.
- GOLF PUTTING GREEN: PROVIDE 4 GOLF HOLES WITH CUPS AND FLAGS BY FOREVER LAWN.
- ADJUSTABLE HEIGHT VOLLEYBALL NET SLEEPING SYSTEM TYP. OF (1); MONSIEUR SLIDER SYSTEM: ALUMINUM, INCLUDES (2) ALUMINUM SLEEVES, POLES, POLE PADS, NET, AND HARDWARE. AVAILABLE FROM VOLLEYBALLUSA, CONTACT EVAN NORRIS, (800) 494-3933, WWW.VOLLEYBALLUSA.COM
- METAL PICKET FENCE: LOCATION IS DIAGRAMMATIC - TO BE LOCATED WITHIN 6 INCHES OF PROPERTY LINE, 5' TALL (EXCEPT WHERE FENCE IS INSTALLED ON TOP OF RAISED CURB, REFER TO NOTE ON PLAN), COLOR - BLACK, VINES TO GROW ON FENCE PICKETS. REFER TO DETAILS ON SHEET L527 AND LANDSCAPE PLAN.
- DEDICATION PLAQUE: POLE MOUNTED, FOR DESIGN AND TEXT CONTACT OWNER. FINAL LOCATION TO BE DETERMINED BY OWNER.
- DOG PARK ENTRY SIGNS: ONE SIGN FOR THE MAIN DOG ENTRY GATE. "SMALL DOGS", "LARGE DOGS", REFER TO DETAIL 12/L521.
- SHELL SURFACING WITH METAL EDGING UNDER LUNGO MARE BENCHES, REFER TO DETAIL 7/L522.
- 6" CURB: APPROXIMATELY 35 LF. VERIFY LENGTH IN FIELD, LOCATED ALONG EDGE OF NARROW PLANTER, D-CURB PER FLORIDA DOT STANDARDS, REFER TO CIVIL PLANS.

EXPANSION JOINT LOCATION SYMBOL, SEE DETAIL 2-4/L520.

P.A. PLANTING AREA: SEE LANDSCAPE PLANS.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) 6TH EDITION 2017, CHAPTER 5 OF THE CITY OF TAMPA CODE, AND ALL OTHER APPLICABLE CODES.

Stantec
 Stantec Consulting Services Inc.
 777 S. Harbour Island Blvd., Suite 600
 Tampa, Florida 33602 Tel: 813.223.9500
 www.stantec.com Fax: 813.223.0009
 Certificate of Authorization #27013
 FL Lic. # LC-C000170

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Revision	By	App'd	YY/MM/DD
5	FIN/AL/RY / BID PLAN	HS	18.12.14
4	100% CD	HS	18.10.08
3	90% CD CITY REVIEW	HS	18.07.02
2	SWY/WD SUBMITTAL	KMJ	18.05.22
1	100% DD CLIENT REVIEW	KMJ	18.05.15

ISSUED

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE AND BELIEF THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Client/Project: CITY OF TAMPA
 MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title: HARDSCAPE PLAN

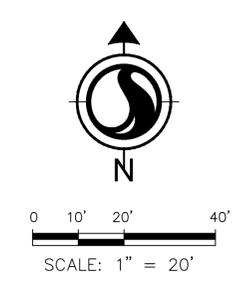
Permit-Seal

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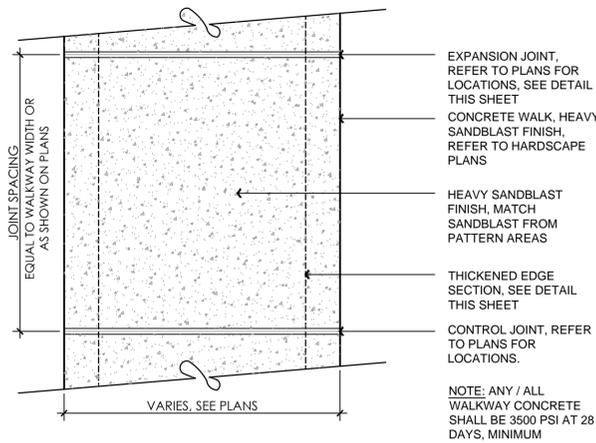
OONA JOHNSEN RLA
 LICENSE NO. 6647387

Project Number: 215612562
 SCALE: 1"=20'
 FILE NAME: 12562-011-120HSCP.DWG
 EB/SN LD EB/SN 2018/12/20
 Dwn Chkd Dsgn YY/MM/DD

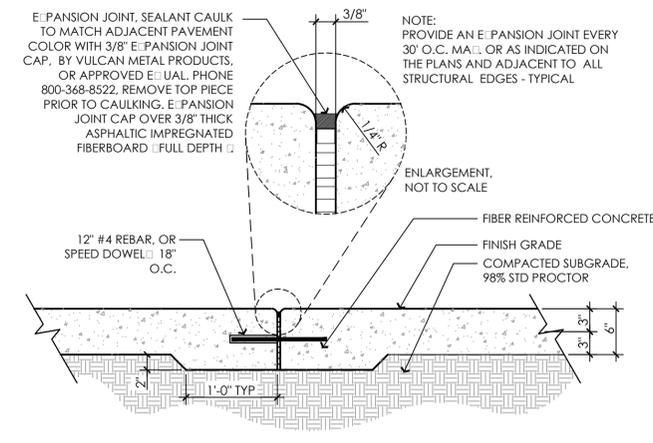
Drawing No. L120
 Revision Sheet



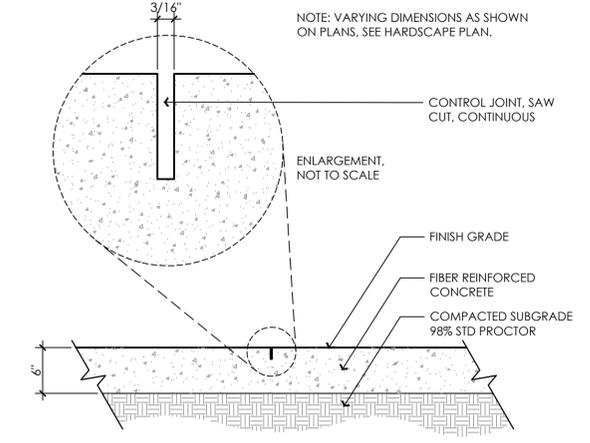
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 2018/12/20 11:55 AM by: ojohnsen, Oona



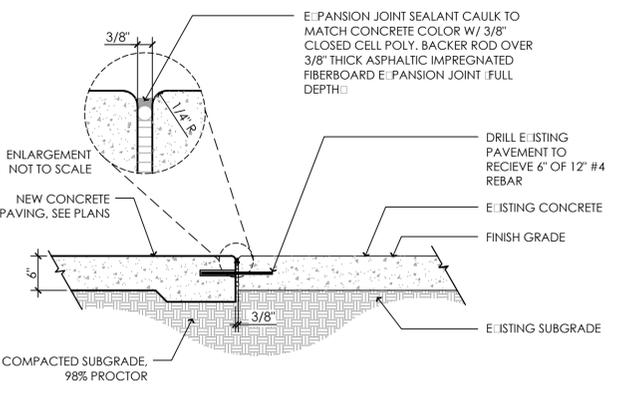
1 CONCRETE WALKWAY, TYP.
SCALE: 1/2" = 1'-0"



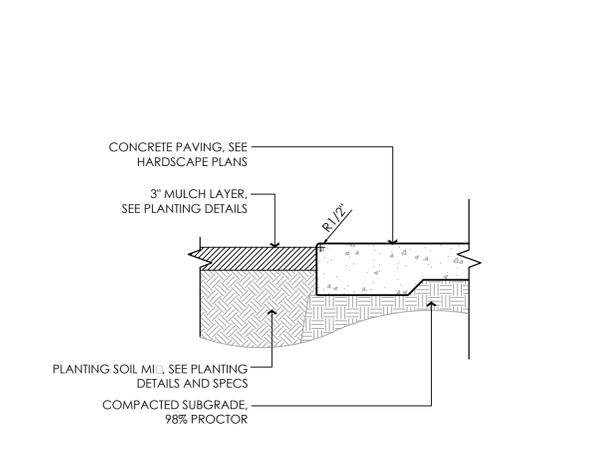
2 6" CONCRETE PAVEMENT / EXPANSION JOINT
SCALE: 1" = 1'-0"



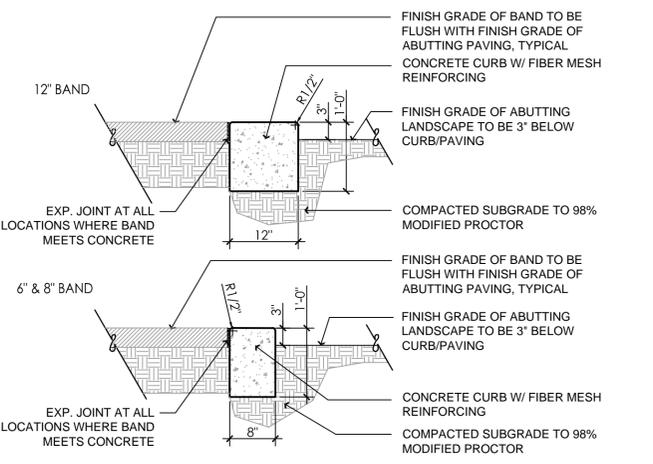
3 6" CONC. - CONTROL JOINT / SAWCUT
SCALE: 1" = 1'-0"



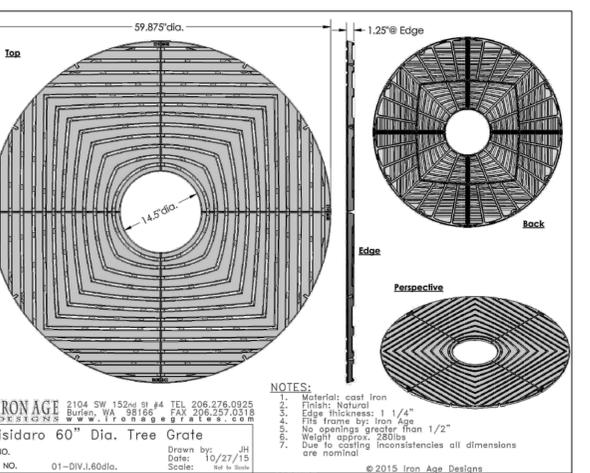
4 EXPANSION JOINT AT EXISTING CONCRETE
SCALE: 3/4" = 1'-0"



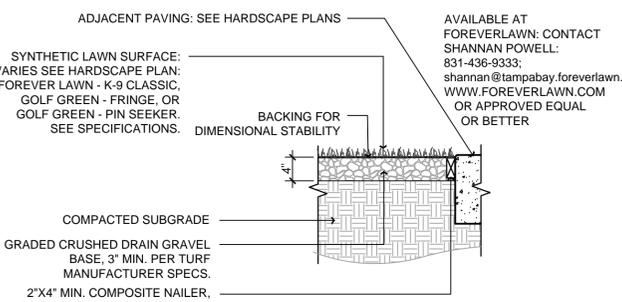
5 CONCRETE EDGE - PLANTING
SCALE: 1" = 1'-0"



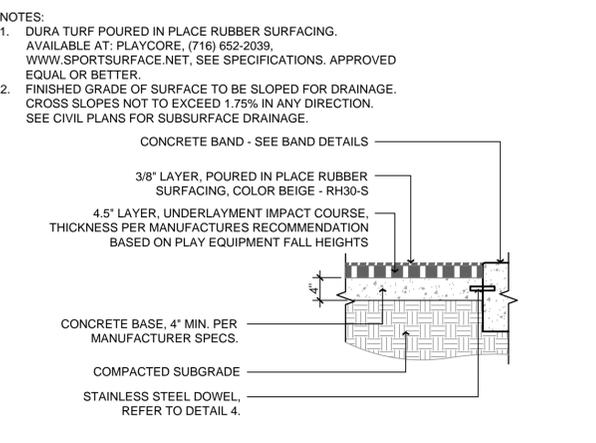
6 CONCRETE BANDS
SCALE: 3/4" = 1'-0"



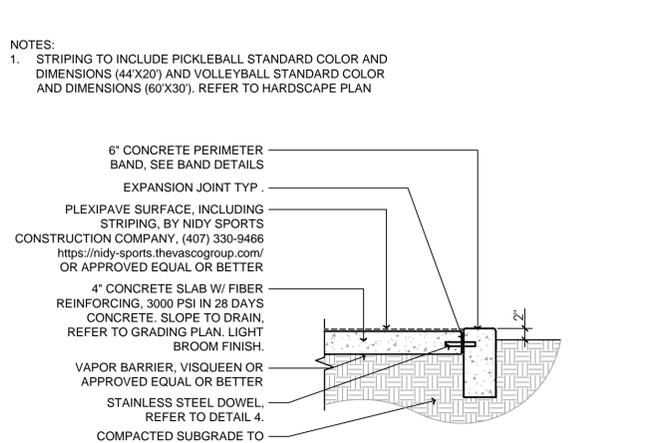
7 TREE GRATE
SCALE: NTS



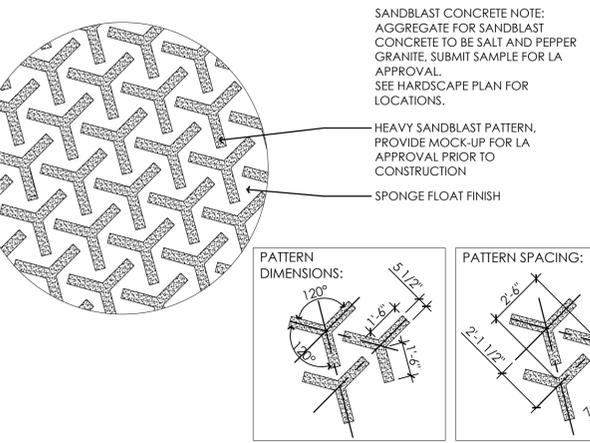
8 SYNTHETIC LAWN AND EDGE ATTACHMENT
SCALE: 3/4" = 1'-0"



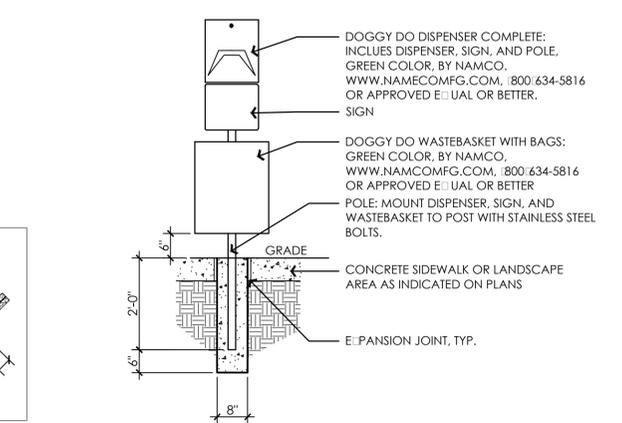
9 RUBBER PLAYGROUND SURFACE
SCALE: 3/4" = 1'-0"



10 MULTI-SPORT COURT SURFACE
SCALE: 3/4" = 1'-0"



11 SANDBLAST PATTERN
SCALE: 1/4" = 1'-0"



12 DOG PICK UP STATION
SCALE: 1/2" = 1'-0"

V:\3152\sheet\015262\sheet\001\sheet.dwg: 12562-01-520HDTL.dwg
2018/12/15 4:08 PM BY: Johnson, Oona

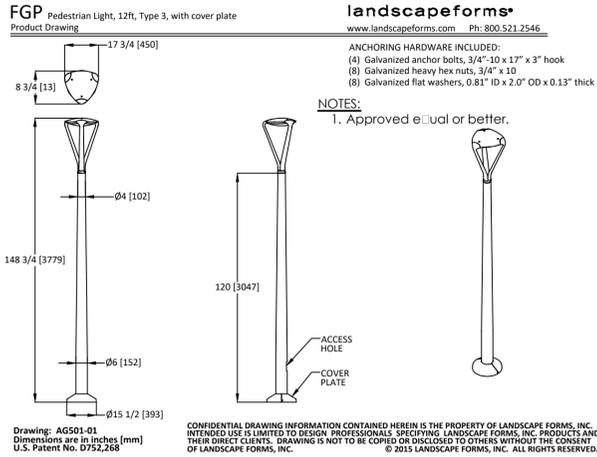
Revision	By	App'd	YY/MM/DD
5	OJ	HS	18.12.14
4	OJ	HS	18.10.08
3	OJ	HS	18.07.02
2	KMJ	HS	18.05.22
1	KMJ	HS	18.05.15

Issued

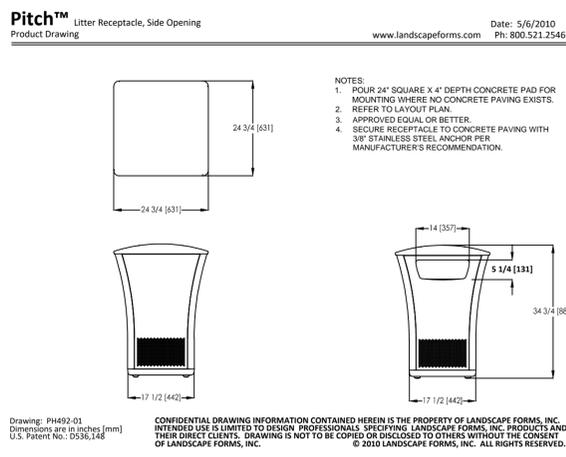
TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE MINIMUM BUILDING CODES.

Client/Project
CITY OF TAMPA
MADISON STREET PARK
Contract No. 18-C-00036
1224 E. MADISON STREET, CHANNEL DISTRICT
Title
JULY
HARDSCAPE DETAILS

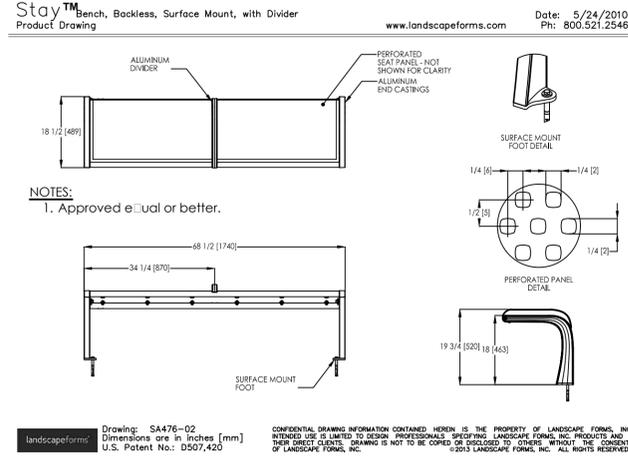
Permit-Seal
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OONA JOHNSON, RLA
LICENSE NO. 6667387
Project Number: 215612562
SCALE: 1"=20'
FILE NAME: 12562-01-520HDTL.DWG
OJ HS OJ 2018/11/28
Dwn. Chkd. Dsgn. YY/MM/DD
Drawing No. L520
Revision Sheet
0



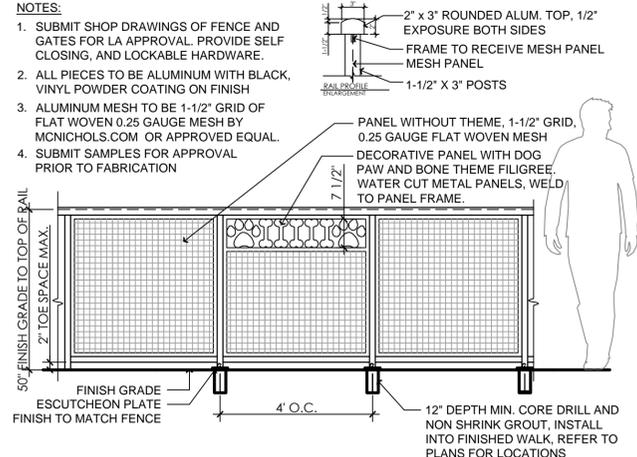
1 DECORATIVE POLE LIGHT
SCALE: 1/4" = 1'-0"



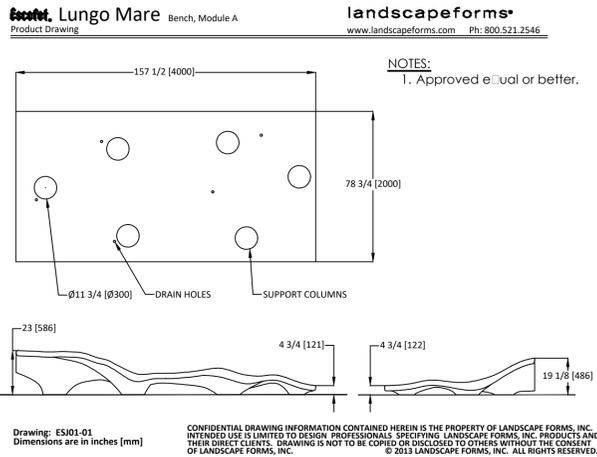
2 LITTER RECEPTACLE
SCALE: 1/2" = 1'-0"



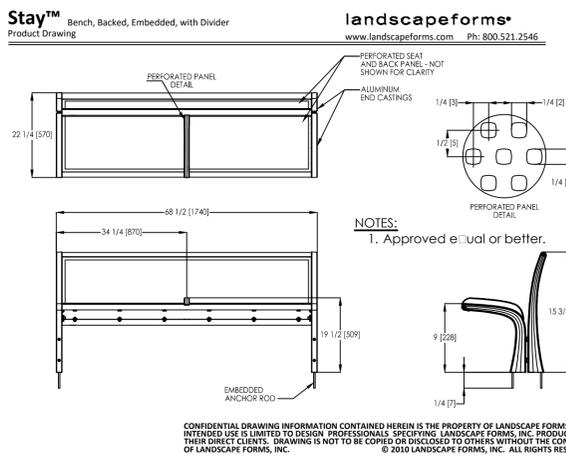
3 PARK BENCH BACKLESS
SCALE: N.T.S.



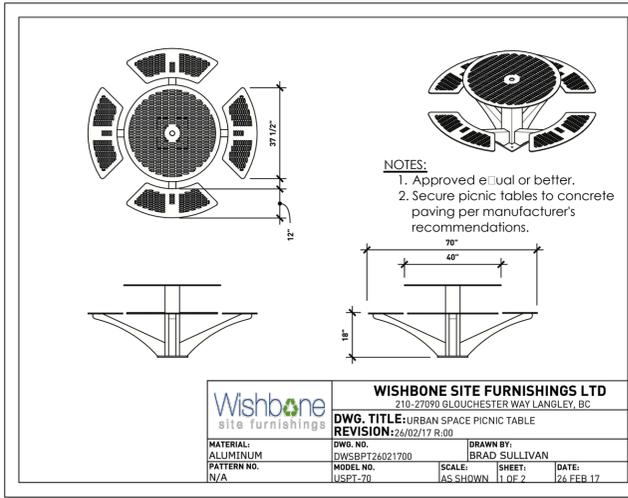
4 DOG PARK DECORATIVE FENCE
SCALE: 1/2" = 1'-0"



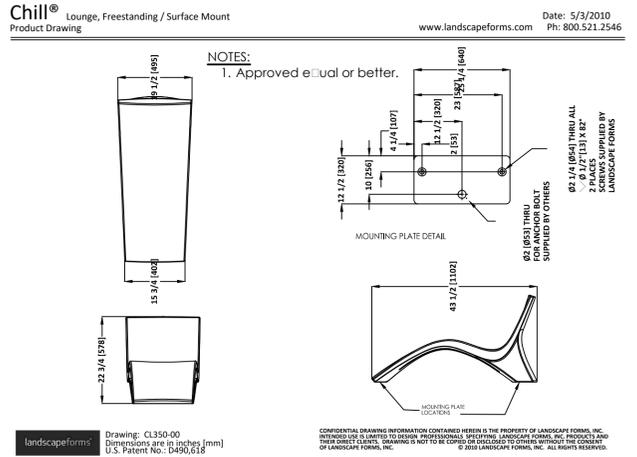
5 CONCRETE FORM BENCH
SCALE: 1/4" = 1'-0"



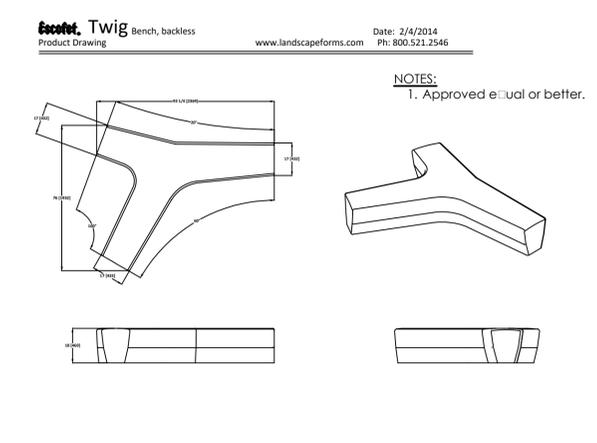
6 PARK BENCH
SCALE: 1/2" = 1'-0"



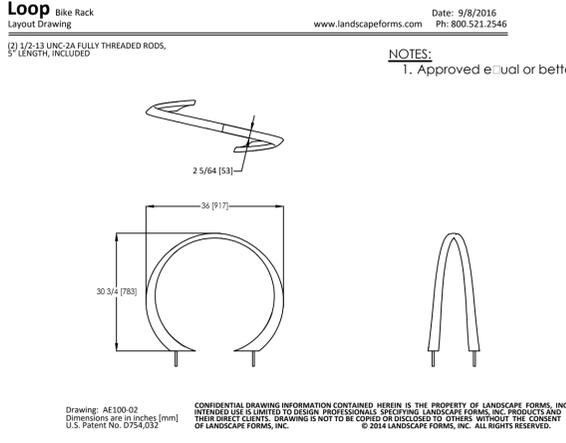
7 PICNIC TABLE
SCALE: NTS



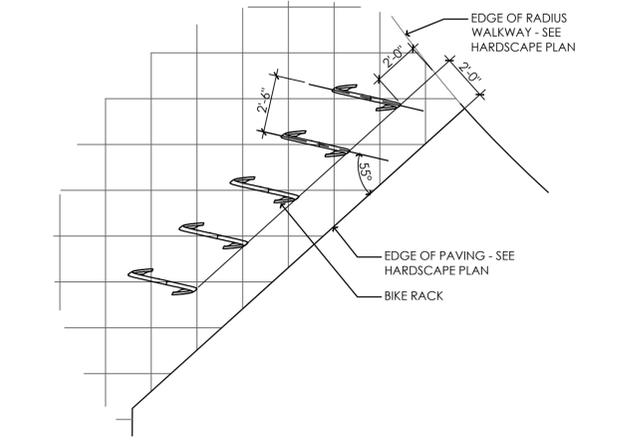
8 LOUNGE CHAIR
SCALE: NTS



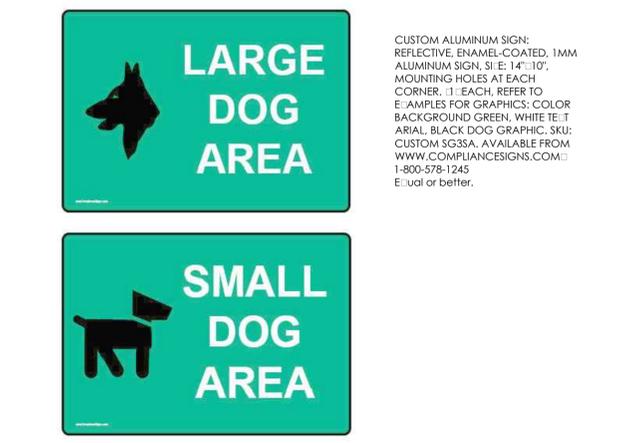
9 CONCRETE BACKLESS BENCH
SCALE: 1/4" = 1'-0"



10 BIKE RACK
SCALE: 1/2" = 1'-0"



11 BIKE RACK LAYOUT
SCALE: 1/4" = 1'-0"



12 DOG PARK ENTRY SIGNS
SCALE: NTS

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Revision	By	App'd.	Y1:MM:DD
5	FINAL PLAN / BID PLAN	OJ	18.12.14
4	100% CD	OJ	18.10.08
3	90% CD CITY REVIEW	OJ	18.07.02
2	50% PWD SUBMITTAL	KUJ	18.05.22
1	100% DD CLIENT REVIEW	KUJ	18.05.15

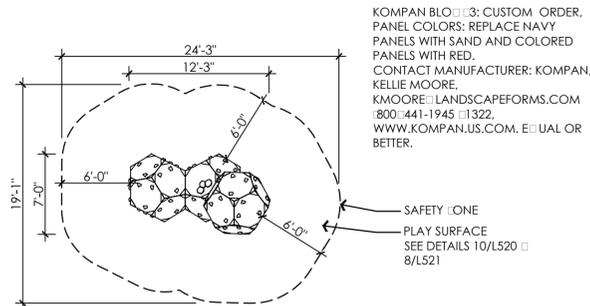
TO THE BEST OF THE ARCHITECT'S KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Client/Project
CITY OF TAMPA
MADISON STREET PARK
Contract No. 18-C-00036
1224 E. MADISON STREET, CHANNEL DISTRICT

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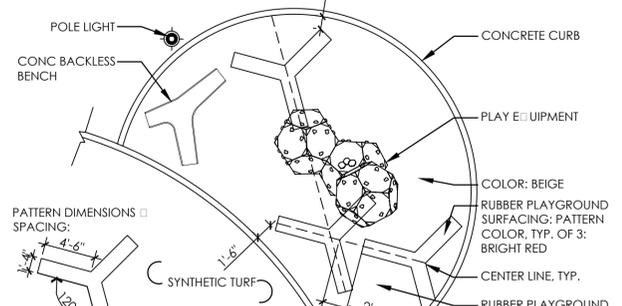
OONA JOHNSEN RLA
LICENSE NO. 6667387
Project Number: 215612562
SCALE: 1"=20'
FILE NAME: 12562-011-521HDTL.DWG
OJ HS OJ 17.08.15
Dwn. Chkd. Dsgn. Y1:MM:DD
Drawing No. L521
Revision Sheet

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20/8/17 12:14:12 PM By: Johnsen, Oona



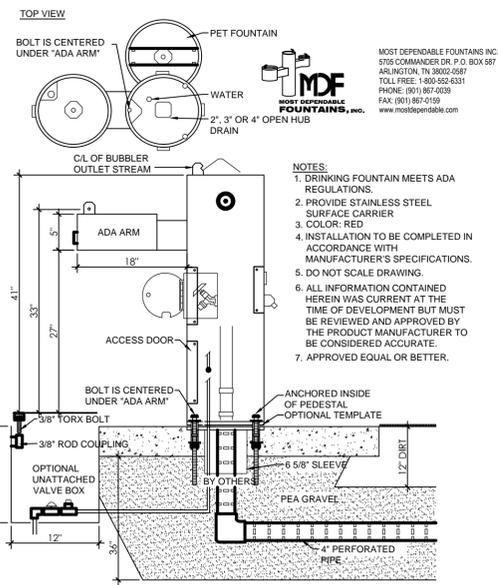
NOTES:
 1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 2. CONTRACTOR TO ENSURE SAFETY CONE FITS INTO PLAY AREA PRIOR TO POURING EDGE CURB.
 3. NOTIFY L.A. OF ANY CONFLICTS.
 4. COORDINATE PLAY INSTALL WITH OTHER TRADES AS NEEDED.
 5. REFER TO DETAIL 9/L520 FOR RUBBER PLAYGROUND SURFACE.

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

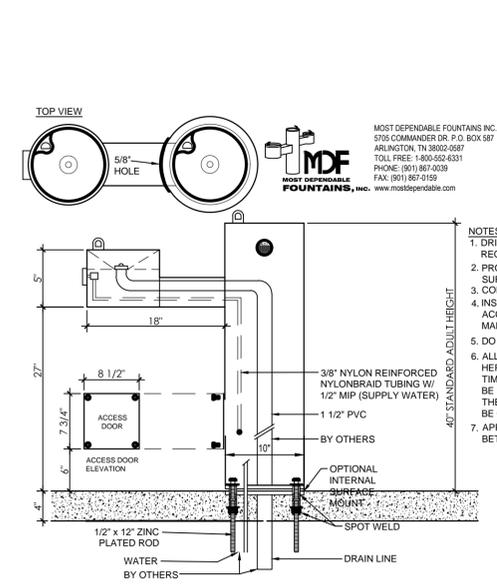


NOTES:
 1. SEE HARDSCAPE PLAN AND SPECIFICATIONS.
 2. COORDINATE PLAY SURFACING INSTALL WITH OTHER TRADES AS NEEDED.
 3. APPROVED EQUAL OR BETTER.
 4. REFER TO DETAIL 9/L520 FOR RUBBER PLAYGROUND SURFACE.

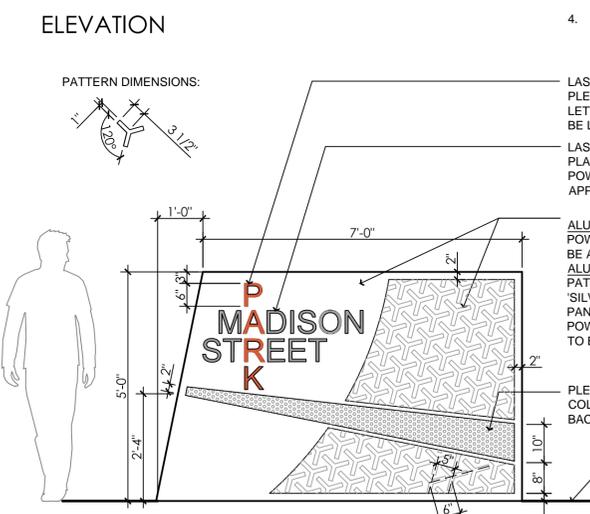
2 RUBBER PLAYGROUND SURFACE: PATTERN
 SCALE: 1/8" = 1'-0"



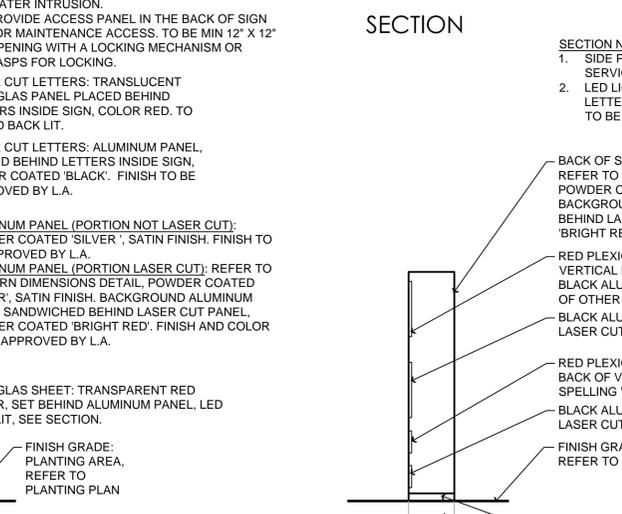
3 PET DRINKING FOUNTAIN, MODEL 440 SM
 SCALE: NTS



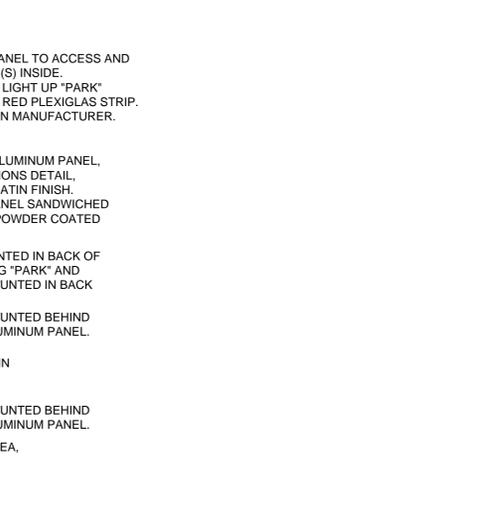
4 DRINKING FOUNTAIN, MODEL 440 SM
 SCALE: NTS



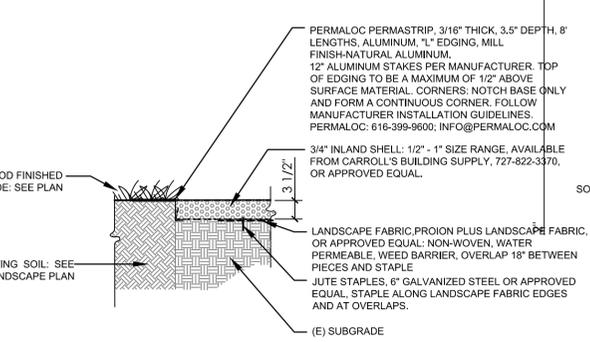
5 PARK SIGN
 SCALE: 1/2" = 1'-0"



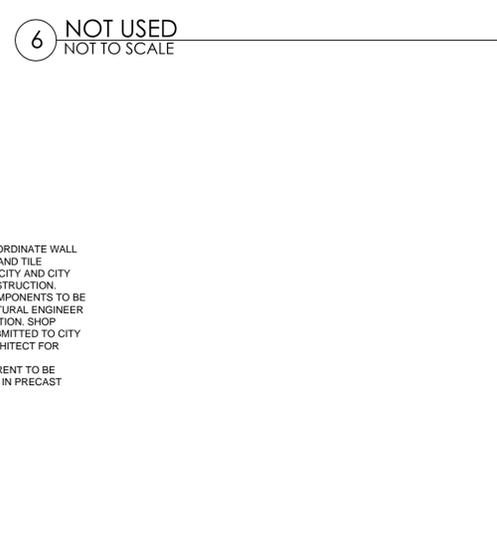
6 NOT USED
 NOT TO SCALE



8 SEAT WALL SECTION
 SCALE: 3/4" = 1'-0"



7 SHELL SURFACING WITH METAL EDGING
 SCALE: 3/4" = 1'-0"



6 NOT USED
 NOT TO SCALE

GENERAL NOTES:
 1. ALL METAL SHEETS TO HAVE POWDER COAT OR EXTERIOR FINISH, TYPICAL.
 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND STRUCTURAL PLANS FOR L.A. APPROVAL.
 3. SIGN TO BE DESIGNED TO PROTECT IT FROM WATER INTRUSION.
 4. PROVIDE ACCESS PANEL IN THE BACK OF SIGN FOR MAINTENANCE ACCESS. TO BE MIN 12" X 12" OPENING WITH A LOCKING MECHANISM OR HASPS FOR LOCKING.

SECTION NOTES:
 1. SIDE PANEL: PROVIDE PANEL TO ACCESS AND SERVICE LIGHT FIXTURE(S) INSIDE.
 2. LED LIGHT FIXTURES TO LIGHT UP "PARK" LETTERS AND VERTICAL RED PLEXIGLAS STRIP. TO BE DESIGNED BY SIGN MANUFACTURER.

PERMALOC PERMASTRIP, 3/16" THICK, 3.5" DEPTH, 8' LENGTHS, ALUMINUM, "L" EDGING, MILL FINISH-NATURAL ALUMINUM.
 12" ALUMINUM STAKES PER MANUFACTURER. TOP OF EDGING TO BE A MAXIMUM OF 1/2" ABOVE SURFACE MATERIAL. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER. FOLLOW MANUFACTURER INSTALLATION GUIDELINES. PERMALOC, 616-399-9600; INFO@PERMALOC.COM

NOTES:
 1. CONTRACTOR TO COORDINATE WALL CAP CONSTRUCTION AND TILE SPECIFICATION WITH CITY AND CITY ARTIST BEFORE CONSTRUCTION.
 2. ALL STRUCTURAL COMPONENTS TO BE DESIGNED BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS TO BE SUBMITTED TO CITY AND LANDSCAPE ARCHITECT FOR APPROVAL.
 3. SKATEBOARD DETERRENT TO BE INSTALLED BY ARTIST IN PRECAST TERRAZZO CAP.

X:\2154\active\2154\2562\01\sheet\files\2562-01-521\HDL.dwg 2018/12/13 4:12 PM By: johnsen, Oona

ORIGINAL SHEET - ANSI D



Revision	By	App'd	Y/M/AM/DD
5	FINAL PLAN / BID PLAN	OJ	18/12/14
4	100% CD	OJ	18/10/08
3	90% CD CITY REVIEW	OJ	18/07/02
2	30% PWD SUBMITTAL	KUJ	18/05/15
1	100% DD CLIENT REVIEW	KUJ	18/05/15
	By	App'd	Y/M/AM/DD

TO THE BEST OF THE ARCHITECT'S AND ENGINEER'S KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Client/Project
 CITY OF TAMPA
 MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT

The
 HARDSCAPE DETAILS

Permit-Seal

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Oona Johnsen, RLA
 License No. 6667387

Project Number: 215612562
 SCALE: 1"=20'
 FILE NAME: 12562-01-521\HDL.DWG
 Dwn. Chkd. Dsgn. Y/M/AM/DD
 Drawing No. L522
 Revision Sheet

GENERAL SHADE STRUCTURE NOTES:

1. Approved equal or better.
2. Contractor to provide final shop drawings for approval.
3. See detail 6, this sheet for concrete post base detail to be integrated into shade structure design and shop drawings.
4. Refer to hardscape plan, L120, for correct position of shade structure.

poligon

PROJECT: MADISON STREET PARK
 LOCATION: TAMPA, FL
 BUILDING TYPE: MSL-16432
 ROOF TYPE: MEGA-RIB
 BUILDING NUMBER: 17578
 ORDER NUMBER: 62126

DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2	STRUCTURAL FRAMING PLAN
3	COLUMN LAYOUT

STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

REVISIONS:

REV.	DESCRIPTION	BY	DATE
A	ADDED SOFFIT & FASCIA	CHAGRE	6/7/2018
B	REVISED ROOF SLOPE, CHANGED FRAME & ROOF COLORS	CHAGRE	6/21/2018

poligon
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg

1 DOG PARK STRUCTURE - COVER
NOT TO SCALE

poligon

STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

GENERAL NOTE: 1. MEGA-RIB ROOFING - GALVALUME COATED STEEL STRIKE SHEET FINISH. 2. TRIM COLOR MATCH TO ROOF COLOR OR AS NOTED.

poligon
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg

2 DOG PARK - ARCHITECTURAL ELEVATIONS
NOT TO SCALE

poligon

STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

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12562-011-021HDTL.dwg
12562-011-021HDTL.dwg

3 DOG PARK - STRUCTURAL FRAMING PLAN
NOT TO SCALE

poligon

STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

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12562-011-021HDTL.dwg
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg

4 DOG PARK - COLUMN LAYOUT
NOT TO SCALE

poligon

FRAME COLOR: SILVER FROST
 ROOF COLOR: BRITE RED
 CONTACT REQUESTOR TO REQUEST ACTUAL COLOR SAMPLES.

MADISON STREET PARK
TAMPA, FL
MSL-16432

poligon
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg

5 DOG PARK STRUCTURE - RENDERING
NOT TO SCALE

DOG PARK STRUCTURE POST PER DRAWINGS, TYP.

FOR ALL DOG PARK POSTS (4) TYP.:

1. ROUND CONCRETE BASE 2" LARGER IN DIAMETER THAN THE POST.
2. SLOPE 2" COLLAR TO DRAIN.
3. CONTRACTOR TO COORDINATE DETAIL WITH MANUFACTURER FOR INCLUSION INTO SHOP DRAWINGS.
4. INSTALL PROTECTIVE COATING ON ALL ROUND CONCRETE BASES: SEAL-KRETE CLEAR SEAL GLOSS OR APPROVED EQUAL. AVAILABLE FROM SEAL-KRETE WWW.SEAL-KRETE.COM, (800)323-7357. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

poligon
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg
12562-011-021HDTL.dwg

6 DOG PARK STRUCTURE - CONC POST BASE
NOT TO SCALE

Revision	By	Appd.	YYMMDD
5	OJ	HS	18.12.14
4	OJ	HS	18.10.08
3	OJ	HS	18.07.02
2	KMJ	HS	18.05.22
1	KMJ	HS	18.05.15

ISSUED

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Client/Project
CITY OF TAMPA

MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT

Title
STRUCTURE DETAILS

Permit-Seal

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OONA JOHNSON RLA
 LICENSE NO. 6667387

Project Number: 215612562

SCALE: 1"=20'

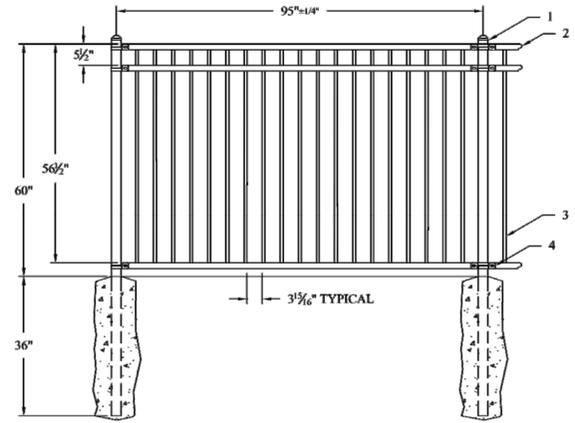
FILE NAME: 12562-011-021HDTL.DWG

Dwn.	Chkd.	Dsgn.	YYMMDD
OJ	HS	OJ	2008/10/03

Drawing No. L526

Revision Sheet

- NOTES:**
- 5' tall Metal Picket Fence to be installed on ground level with concrete footing.
 - Refer to Hardscape Plan for layout.
 - Refer to Detail 4, this sheet, for fence on B-curb and ground level interface.
 - Montage Plus
 - 3-Rail panels
 - 8' panel length
 - Majestic top rail style
 - Flush bottom rail
 - Black Color
 - No adornments
 - By Ameristar, Approved Equal or Better, Contact Tim Smith (888) 333-3422.



#	QTY.	DESCRIPTION
1	2	3/8" SQ POST
2	3	1/2" x 1/2" RIBBED CHANNEL RAIL
3	19	3/8" PICKET
4	6	BRACKETS

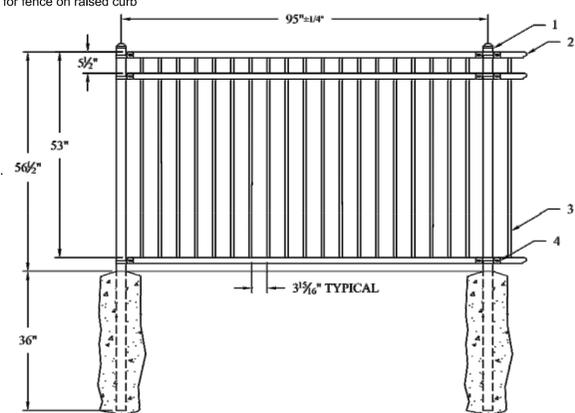
REV	BY	CHKD	DATE	DESCRIPTION
1	DM	CS	12-11-11	ISSUE FOR PERMIT

AMERISTAR
 1555 N. Mingo
 Tallahassee, FL 32310
 904.933.3422
 www.ameristar.com

TITLE: MONTAGE PLUS MAJESTIC 3R FLD 5T 8' PANEL
 DATE: 08/19/13 SCALE: FNS SHEET: 1/1
 DRN BY: DLM CHK BY: REV: D
 DRAWING NO: 18MCK34F

1 METAL PICKET PERIMETER FENCE: 5' TALL
NOT TO SCALE

- NOTES:**
- 4.5' tall Metal Picket Fence to be installed on top of raised curb, core drill for post installation. Refer to Detail 3.
 - Refer to Hardscape Plan for layout.
 - Refer to Detail 4, this sheet, for fence on raised curb and ground level interface.
 - Montage Plus
 - 3-Rail panels
 - 8' panel length
 - Majestic top rail style
 - Flush bottom rail
 - Black Color
 - No adornments
 - By Ameristar, Approved Equal or Better, Contact Tim Smith (888) 333-3422.



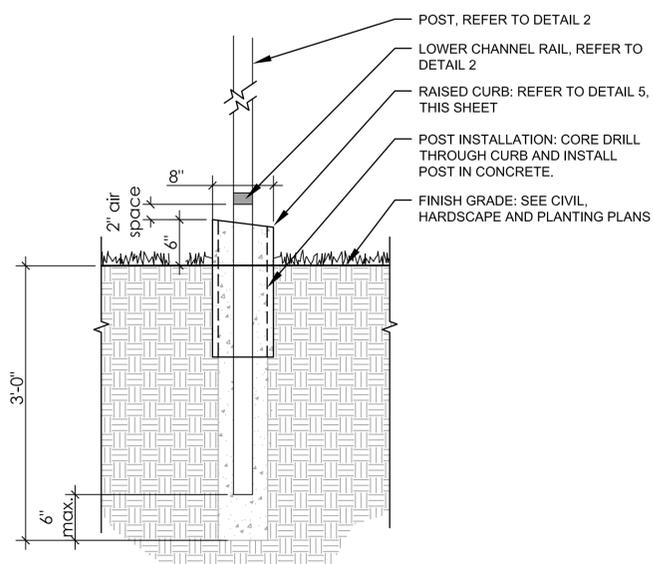
#	QTY.	DESCRIPTION
1	2	3/8" SQ POST
2	3	1/2" x 1/2" RIBBED CHANNEL RAIL
3	19	3/8" PICKET
4	6	BRACKETS

REV	BY	CHKD	DATE	DESCRIPTION
1	DM	CS	12-11-11	ISSUE FOR PERMIT

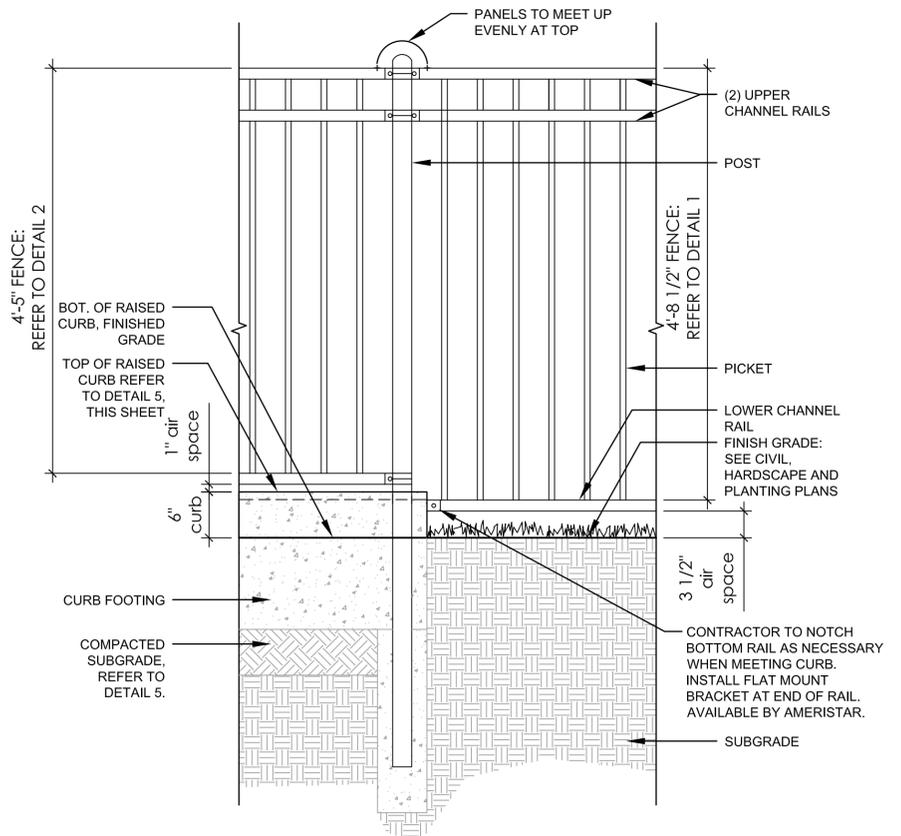
AMERISTAR
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 Tallahassee, FL 32310
 904.933.3422
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TITLE: MONTAGE PLUS MAJESTIC 3R FLD 4.5T 8' PANEL
 DATE: 08/19/13 SCALE: FNS SHEET: 1/1
 DRN BY: DLM CHK BY: REV: E
 DRAWING NO: 18MCK34F

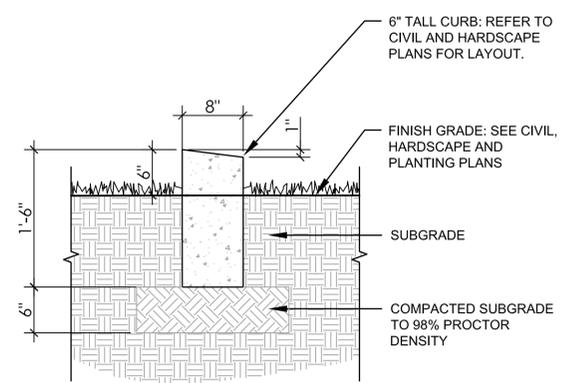
2 METAL PICKET PERIMETER FENCE: 4.5' TALL
NOT TO SCALE



3 METAL PICKET PERIMETER FENCE: ON B-CURB
NOT TO SCALE



4 METAL PICKET PERIMETER FENCE: ELEVATION
NOT TO SCALE



5 RAISED CURB: SECTION
NOT TO SCALE

REVISION	BY	APPD.	DATE	DESCRIPTION
5	OJ	HS	18.12.14	FINAL PLAN / BID PLAN
4	OJ	HS	18.10.08	100% CD
3	OJ	HS	18.07.02	90% CD CITY REVIEW
2	KMJ	HS	18.05.22	SWFWD SUBMITTAL
1	KMJ	HS	18.05.15	100% DD CLIENT REVIEW

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 KNOWLEDGE AND BELIEF THESE PLANS
 SPECIFICATIONS COMPLY WITH
 THE APPLICABLE MINIMUM
 BUILDING CODES.

Client/Project
CITY OF TAMPA
MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
HARDSCAPE DETAILS

Permit-Seal
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OONA JOHNSEN RLA
 LICENSE NO. 6667887

Project Number: 215612562
 SCALE: 1"=20'
 FILE NAME: 12562-01L-S21HDTL.DWG
 Dwn: OJ HS OJ 2008/10/03
 Chkd: Dsgn YY MM DD

Drawing No. L527
 Revision Sheet

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 2018/11/15 4:17 PM By: Johnson, Oona

ORIGINAL SHEET - ANSI D

LANDSCAPE NOTES

- No heavy equipment on top of subsurface stormwater chambers. General Contractor to stake out limits.
- All landscape construction shall conform to the minimum landscape requirements of the City of Tampa Landscape Code.
- Contractor to comply with all state and local code requirements.
- Prior to construction of any improvements, contractor shall obtain a landscape permit from City of Tampa. Permits are the responsibility of the contractor and are to be included as part of the base bid.
- Contractor is responsible for determining all utility locations and installing facilities so as to not conflict.
- All damage to existing utilities or improvements caused by contractor shall be repaired at no additional cost to the owner.
- Soil testing shall be performed in all planting areas (including sodded areas) prior to construction with results submitted to landscape architect. Soil amendments shall be added as necessary to meet the following parameters:

pH Range	5.5 - 6.5
Organic Matter	4 - 10%, by dry weight (humus)
Calcium	60 - 70%
Magnesium	10 - 20%
Potassium	3 - 5%
Phosphorus	Equal to Potassium
Soluble Salts/ Conductivity	Less than 2 mmho/cm

 After amendments have been added, resubmit results to the landscape architect for approval.
- All planting beds shall be excavated a minimum of 6" and backfilled with planting mix. Reference planting details.
- Contractor shall grade all landscape areas, eliminating all surface irregularities, depressions, vegetative matter, sticks, stones, and other debris, and remove them from site.
- Furnish to the owner a unit price breakdown for all materials. The owner may, at there discretion, add or delete from the materials utilizing the unit price breakdown submitted.
- All new plant material shall be guaranteed for 1 year, from time of final acceptance of project, any plant material not in a healthy growing condition will be replaced by the contractor, at no additional cost to the owner within 10 days of notification. Extend warranty period an additional 6 months beyond the original warranty period, for all replacement plant material. Warranty is null and void for plant material which is damaged or dies as a result of "Acts of God" limited to hail, freeze, lightning, automobile damage, and winds exceeding 75 mph as defined by the National Weather Service. All trees that lean or are blown over, caused by winds less than 75 mph, will be re-set and braced by the contractor at no additional cost to the owner.
- All plants shall meet FL#1 Standard per 2015 Nursery Standards, or latest edition.
- All trees, shrubs and ground covers shall be of the sizes as called for in the Plant Schedule. Where there is a discrepancy either in quantities, plant names, sizes or specifications between the plan and Plant Schedule, the plan takes precedence.
- No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.
- Plant material will not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.
- New plant material to be installed will be field adjusted to accommodate existing plant material such as overhead canopy trees, under-story trees and shrubs or ground cover. This will insure existing plant material to remain in its natural state. Therefore, no existing plant material will be altered by removing, cutting, trimming or destroying in order to install new plant material.
- All planting holes to be hand dug except where machine dug holes will not adversely effect or damage utilities or improvements.
- Planting soil to be a weed free mixture of 50% coarse native sand and 50% peat, pH between 5.5 and 6.5. All plant material to receive planting soil as per details.
- Structural soil shall be installed per details. Structural soil to be the Tampa Mix: This soil aggregate is composed of 45% ¾" aggregate, 35% builder's sand and 20% organic topsoil.
- Use 21 gram Agriform 20-10-5 planting fertilizer tablets per manufacturer's specifications for all plant material.
- Contractor shall stake & guy all trees and palms per City specifications and per the appropriate detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period.
- Root-prune all non-container grown trees a minimum of (8) weeks prior to planting. See detail. Note size of planting pits on planting details.
- All protected trees, if any, shall be trimmed in a manner consistent with the "American National Standard for Tree Care Operations, ANSI, A300, current edition".
- Protective barricades shall remain in place until land alteration and construction activities are completed.
- During land alteration and construction activities, it shall be unlawful to remove vegetation by grubbing or to place soil deposits, debris, solvents, construction material, machinery or other equipment of any kind within the drip line of a tree to remain on the site unless otherwise approved by the City.
- All waste, objectionable material, and excess fill shall be removed and disposed of on a daily basis off-site in a legal manner.
- Any areas subject to erosion must be adequately stabilized with vegetation material that will, within a reasonable time frame, deter soil disturbance.
- Coordinate the removal of erosion control fencing with site contractor while performing final planting.
- Sodding, plugging sprigging or seeding is acceptable for stabilization; however, sodding may be required in areas of erosion-prone soils or where slopes are greater than 5:1. Vegetation other than grass is acceptable unless otherwise specified.

CITY OF TAMPA LANDSCAPE AND TREE PLANTING STANDARDS

- Recommended trees shall be used to meet the requirements of Chapter 27, Section 285 and, as specified in the technical standards, be at least two (2) inches in diameter when measured at six (6) inches above grade and shall be selected from the recommended tree list set forth in Schedule C. At least fifty (50) percent of the recommended trees planted on a parcel shall be shade trees. At least sixty (60) percent of the recommended trees planted on a parcel shall be native trees. Palm trees shall be replaced one (1) for one (1) with a recommended tree.
- An existing or relocated protected tree which meets the standards of this section shall be credited toward the planting requirements contained in section 127-285.1 for recommended trees on a parcel, in accordance with the tree equivalency table set forth in Schedule E located in section 13-165.
- Any person may request and the department may approve a tree as a replacement tree that is not included on the recommended tree list if the tree is similar in character and function to a tree on the recommended tree list.
- A pervious area with an effective minimum radius of six (6) feet from the trunk of a recommended tree shall be maintained around all recommended trees.
- Paving base may extend to within six (6) feet from the trunk of a protected tree, provided an effective pervious area radius of ten (10) feet is created through the use of turf block, pavement aeration devices or similar products.
- Structural foundations may be located at a radius of six (6) feet from the trunk of a protected tree, provided an effective pervious area radius is extended proportionally in three (3) other directions to allow six hundred (600) square feet of pervious area.
- All recommended trees and plant material shall be planted in accordance with the specifications described in the State Department of Agriculture and Consumer Services, Division of Forestry, Tree Protection Manual for Builders and Developers, October 1980, as revised from time to time.
- All recommended trees and plant material used shall be vigorous, well shaped, branched and foliated and shall be graded State Department of Agriculture Nursery Grade No. 1 or better as outlined by the state division of Plant Industry Grades and Standards for Nursery Plants, third Edition, 1973, as revised from time to time, and Grades and Standards for Nursery Plants, Part II, Palms and Trees, fourth printing, 1998, as revised from time to time.
- Landscape areas shall consist of at least sixty (60) percent native plant material and/or plant material adapted to local climatic. Recommended trees, protected trees and plant material shall be planted in such a way as to conserve, preserve and enhance land uses, natural land features, and natural and aesthetic values. Nonliving natural material which permits percolation may also be used as necessary material in landscaping.
- A layer of mulch to a minimum depth of three (3) inches shall be specified on the site plan in plant beds and around individual trees in turf areas. Organic mulches are preferred. The mulch should not be placed directly against the plant stem or tree trunk. Mulch shall not be required in annual beds.
- Areas on the parcel which are used for stormwater retention or detention ponds with depressions of less than two (2) feet and the landscape banks of such ponds from the mean high waterline to the top of the bank shall be credited on a one-to-one area basis toward meeting the landscaped area.
- If a hedge or other screen is used, it must be at least two (2) feet in height at time of planting.
- Turf and grass sod shall be clean and free of weeds, pests, and disease. Grass seed shall be delivered to the job site in bags with the state department of agriculture tags attached.
- All landscape areas must allow for access to public and private utility facilities for maintenance purposes.
- A list of acceptable trees for tree planting within ten (10) feet of the vertical plane of existing powerlines, excluding service wires, as set forth in Section 27-285.1 Schedule D.



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Revision	By	Appd.	YY.MM.DD
5 FINAL PLAN / BID PLAN	O.J.	HS	18.12.14
4 100% CD	O.J.	HS	18.10.08
3 50% CD CITY REVIEW	O.J.	HS	18.07.02
2 SWFWD SUBMITTAL	KMJ	HS	18.05.22
1 100% DD CLIENT REVIEW	KMJ	HS	18.05.15

Issued

TO THE BEST OF THE BUILDERS KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE MINIMUM BUILDING CODES.

Client/Project
CITY OF TAMPA

MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT

Title
LANDSCAPE DETAILS AND NOTES

Permit-Seal

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OONA JOHNSEN RLA
 LICENSE NO. 6667387

Project Number: 215612562

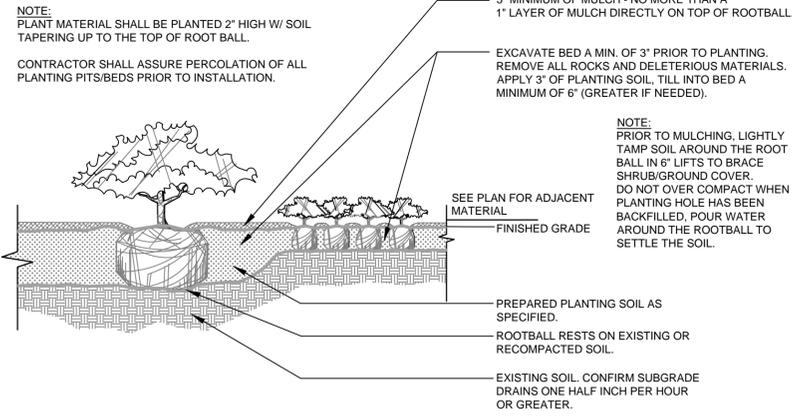
SCALE: 1"=20'

FILE NAME: 12562-01L-530L.DTL.DWG

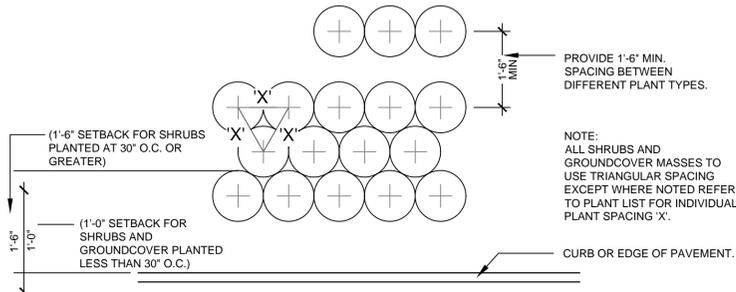
KJ	HS	KJ	2018/11/26
Dwn.	Chkd.	Disgn.	YY.MM.DD

Drawing No. L530

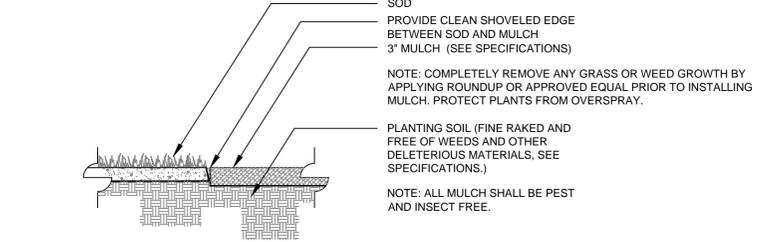
Revision Sheet



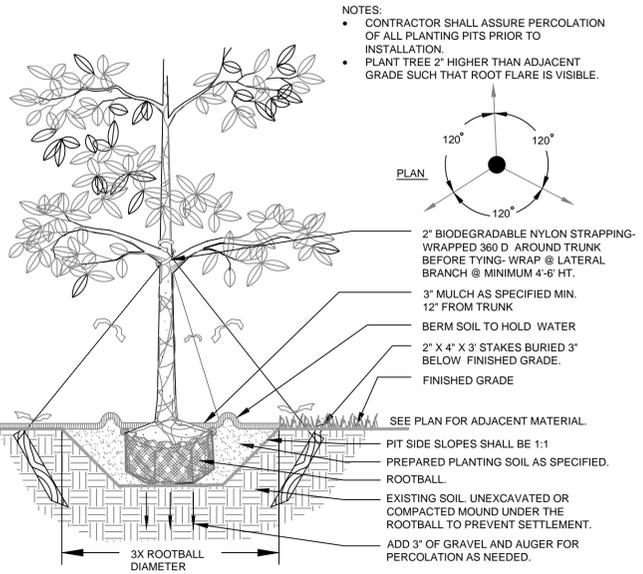
1 SHRUB AND GROUNDCOVER PLANTING
SCALE: NTS



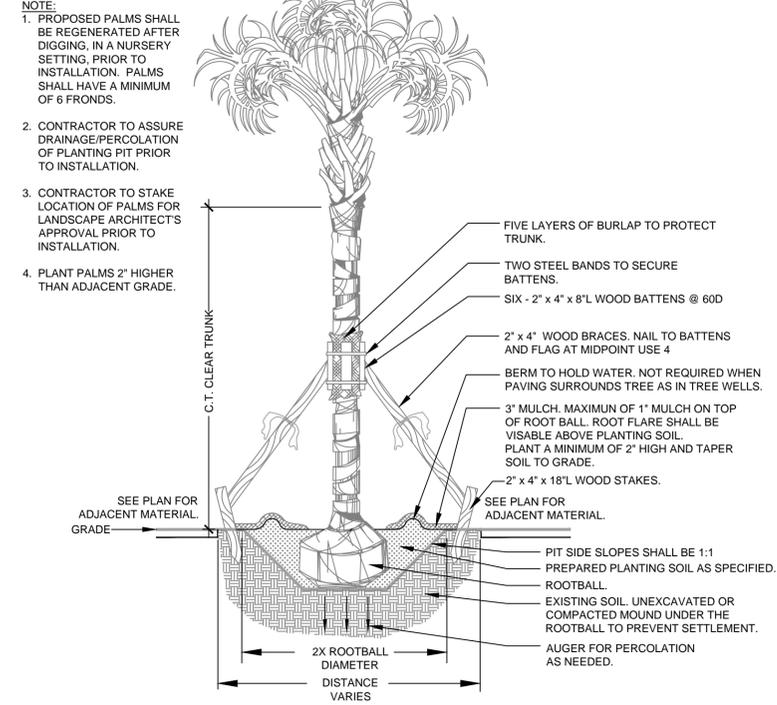
2 TYPICAL PLANT SPACING
SCALE: NTS



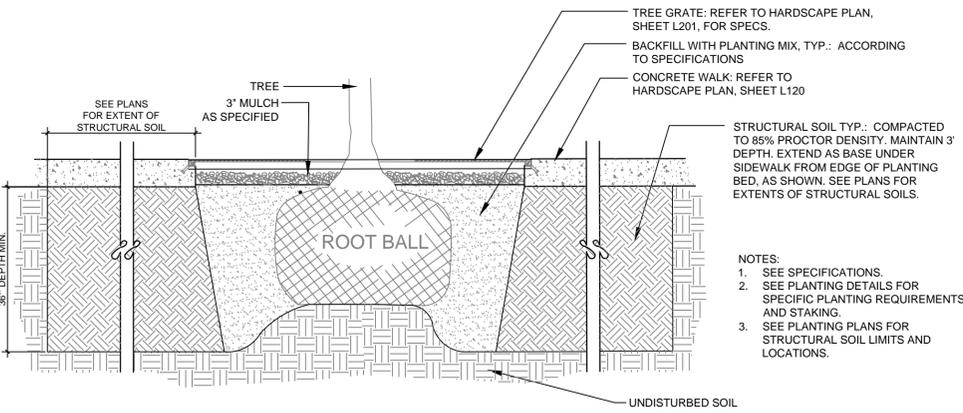
3 MULCH APPLICATION
SCALE: NTS



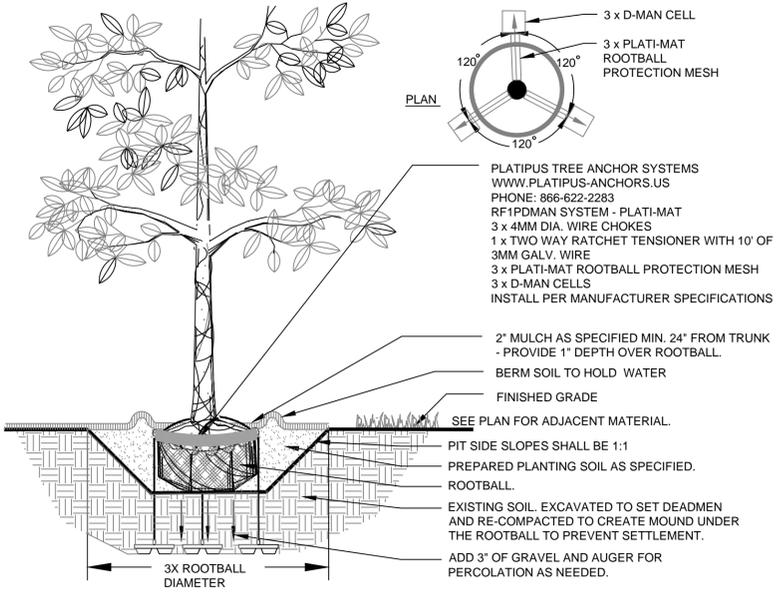
4 TREE PLANTING PIT AND STAKING
SCALE: NTS



5 REGENERATED PALM PLANTING
SCALE: NTS



6 TREE GRATE PLANTING - STRUCTURAL SOIL
SCALE: NTS



7 TREE PLANTING - ANCHORING - FOR TREE GRATES
SCALE: NTS

- NOTES:
- TREES TO BE PLANTED IN PLANTER.
 - PLANT 4\"/>

V:\21562\21562-011-530\011-530.DTL.dwg 2/18/2018 11:41:18 AM By: Johnson, Oana

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5	FINAL PLAN / BID PLAN	O.J. HS	18.12.14
4	100% CD	O.J. HS	18.10.08
3	50% CD CITY REVIEW	O.J. HS	18.07.02
2	50% FWD SUBMITTAL	K.M.J. HS	18.05.22
1	100% DD CLIENT REVIEW	K.M.J. HS	18.05.15

Client/Project
CITY OF TAMPA

MADISON STREET PARK
Contract No. 18-C-00036
1224 E. MADISON STREET, CHANNEL DISTRICT

Title
LANDSCAPE DETAILS AND NOTES

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE MINIMUM BUILDING CODES.

Permit-Seal

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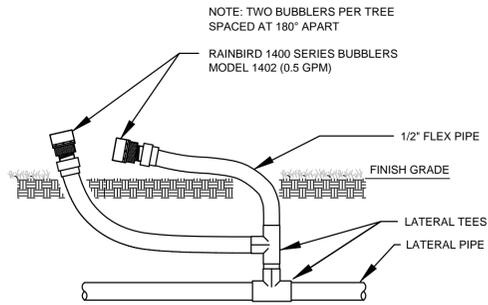
OANA JOHNSEN, RLA.
LICENSE NO. 6667387

Project Number: 215612562
SCALE: 1"=20'

FILE NAME: 12562-011-530.DTL.DWG

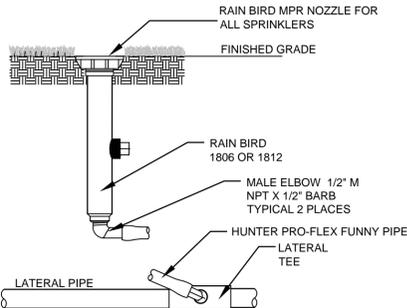
KJ	HS	KJ	2018/11/26
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No. L531
Revision Sheet



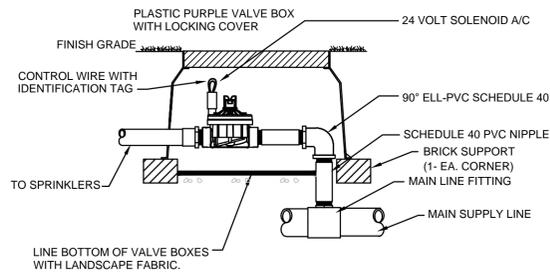
RAINBIRD 1400 SERIES BUBBLER

1 SCALE: NTS



RAIN BIRD POP UP SPRAY HEAD

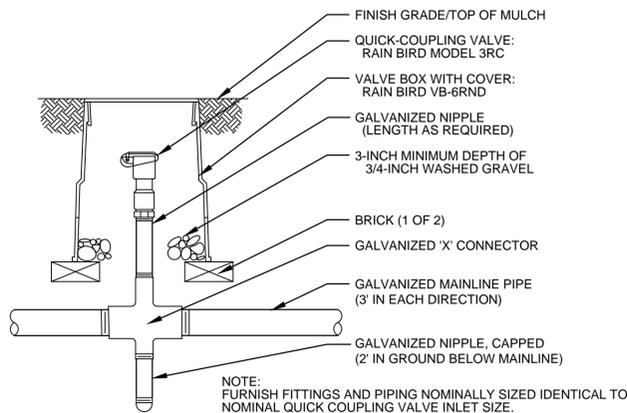
2 SCALE: NTS



IRRITROL 200B SERIES CONTROL VALVE

3 SCALE: NTS

AC CONNECTION

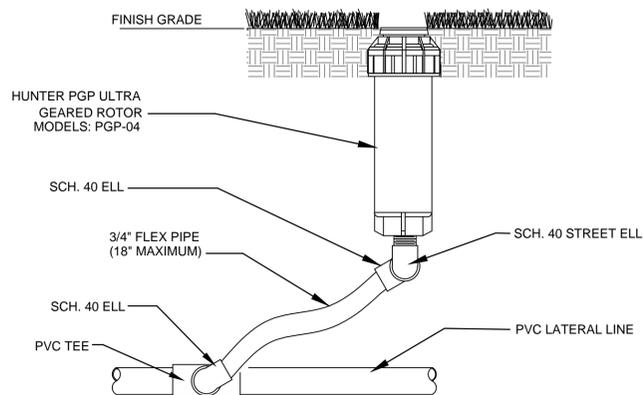


QUICK COUPLER VALVE - RAIN BIRD MODEL 3RC

4 SCALE: NTS

CITY OF TAMPA IRRIGATION STANDARDS

- No heavy equipment on subsurface stormwater chambers. General Contractor to skate out limits.
- All irrigation installation shall conform to City of Tampa Parks & Recreation Technical Specifications, Section 32 84 23.
- Place irrigation heads and lines to accommodate existing job conditions and to provide head to head coverage.
- All main line piping shall be schedule 40 pvc and be buried to have a minimum cover of 18". All lateral piping downstream of the main line shall be buried to have a minimum cover of 12".
- Contractor shall install automatic drain valves at low points in the irrigation lines as required.
- All valve boxes shall be black or green in color (body and lid). Sizes shall be ten (10") inches by fourteen (14") inches (rectangular) for remote control valves and nine (9") inches (round) for gate and quick coupler valves. Place min. 2" of pea gravel in base of valve box.
- Turf areas shall be on a separate irrigation zone than other landscape zones and are not approved for micro-irrigation application.
- Sprays and rotors shall not be combined on the same control valve circuit and shall have matching application rates within each irrigation zone.
- All irrigation systems shall be designed to avoid over spray, runoff, low head drainage, or other similar conditions where water flows onto or over adjacent property, non-irrigated areas, walkways, roadways, structures, or water features. Emitters and sprinkler heads are encouraged to be located at least two (2) feet from buildings and water should not hit the building while operating.
- Water source shall be existing 1" city water meter.
- Irrigation valves shall be connected to existing MIR controller.
- Irrigation contractor to verify location of all utilities prior to digging and is responsible for any damage caused by his/her negligence.
- Submit shop drawings to landscape architect for approval prior to construction.
- Drawings shall show heads, low volume irrigation, piping, zoning, pipe sizes, valves, gallons per zone, zone numbers, controller, etc. For approval by owner prior to installation.
- The irrigation system shall be designed to "Standards and Specifications for Turf and Landscape Irrigation Systems," Fifth Edition, 2005, Florida Irrigation Society", as may subsequently be revised.
- Provide "As Built" plans per City of Tampa specifications before final acceptance.



HUNTER ROTOR

5 SCALE: NTS



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4	100% CD	OJ HS	18.10.08
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2	SWFWD SUBMITTAL	KMJ HS	18.05.22
1	100% DD CLIENT REVIEW	KMJ HS	18.05.15
	Issued	By	App'd
			TY:MM:DD

Client/Project
CITY OF TAMPA
 MADISON STREET PARK
 Contract No. 18-C-00036
 1224 E. MADISON STREET, CHANNEL DISTRICT
 Title
IRRIGATION DETAILS AND NOTES

Permit-Seal
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OONA JOHNSEN, RLA	LICENSE NO. 6667387
Project Number:	215612562
SCALE:	1"=20'
FILE NAME:	12562-011-540IDTL.DWG
KJ HS	KJ 2018/08/28
Dwn. Chkd. Dsgn.	YY:MM:DD

Drawing No. L540
 Revision Sheet