

The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

Please Let Us Know If You Plan To Bid

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

HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT

S.R. 600 (U.S. 92/ W. Hillsborough Avenue) Right-of-Way Between N. Lee Place (Section 10150-000, M.P. 11.698) and S.R. 93 (I-275 Section 10150-000, M.P. 12.785)

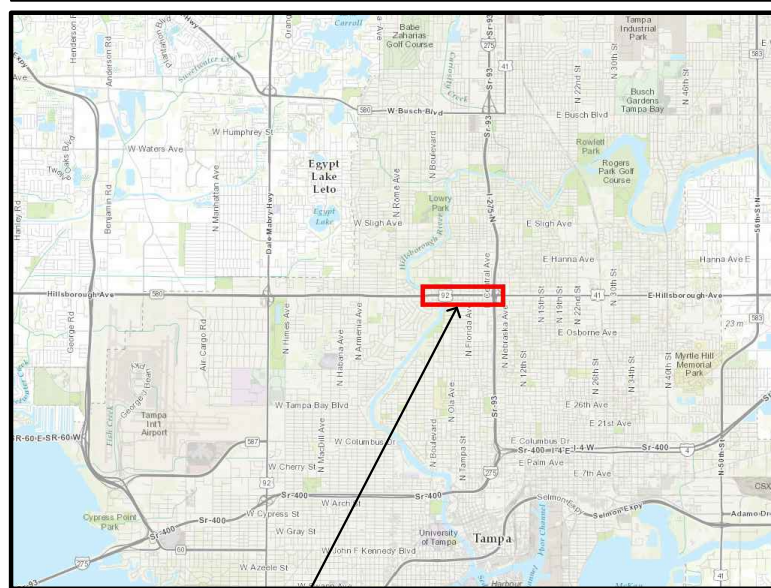
SECTIONS 35 & 36, TOWNSHIP 28, RANGE 18 and SECTIONS 1 & 2, TOWNSHIP 29, RANGE 18
HILLSBOROUGH COUNTY, FLORIDA

Financial Project I.D. # 436634-1-58-01

F.D.O.T. CONTRACT # ARV89 F.D.O.T. HLRMOA # 07-15 and CIT Y OF TAMPA CONTRACT # 16-C-00001

100% CONSTRUCTION PLANS

LOCATION MAP
NOT TO SCALE



PROJECT LOCATION

PREPARED FOR:



CITY OF TAMPA
3402 W. COLUMBUS DRIVE
TAMPA, FL, 33607

PREPARED BY:



NICHOLS
LANDSCAPE
ARCHITECTURE INC.

P.O. Box 155
Lutz, FL 33548

813.948.8810 o.
www.nichols-la.com

813.298.8880 c.
celia@nichols-la.com

877.246.3714 f.
LC26000399



Colwill Engineering
Consulting Engineers, Inc.
Engineering Business No. 9021
4750 East Adamo Drive Tampa, Florida 33606
Tel: 813-941-0255 Fax: 813-941-0454
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DATE ISSUED: **JANUARY 2016**

PROJECT DESIGN TEAM:

OWNER:

City of Tampa
Parks and Recreation Dept.
3402 W. COLUMBUS DRIVE
TAMPA, FL, 33607
(813) 274-8615 o.
(813) 274-5749
Attn: Carly Picard

LANDSCAPE

ARCHITECT:
NICHOLS Landscape
Architecture, Inc.
P.O. Box 155
Lutz, FL 33548
(813) 948-8810 x101 Direct
(813) 298-8880 m.
Attn: Celia R. Nichols, R.L.A.

ELECTRICAL:

Colwill Engineering
4750 East Adamo Drive
Tampa, Florida 33605
(813) 241.2525 o.
Attn: Phil Cochran, PE, LEED AP.

UTILITY CONTACTS:

WATER:

City of Tampa Water
Department
306 E. Jackson Street 5E
Tampa, FL 33602
Phone: (813) 274-7096
Attn.: Janice Davis, P.E.

WASTEWATER:

City of Tampa
Wastewater Department
306 East Jackson Street, 6th Floor
Tampa, FL 33602
Phone: (813) 274-8095 o.
(813)310-3412 m.
Fax: (813) 274-8880
Attn.: Jack Ferras, PE, Dallas E. Pryor

GAS:

TECO Peoples Gas -
Tampa
1400 Channelside Drive
Tampa, FL 33605
(813) 275-3742 General
(813) 917-8928 Direct Line
Attn.: Mr. Luis Castellanos
jcastellanos@tecoenergy.com

ELECTRIC:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601
Phone: (813) 275-3037
Attn.: Jason Cooper
Phone: (813) 630-5232
Attn.: Jeff Henderson, P.E.

TELEPHONE:

Verizon Florida, Inc.
Southwest Engineering & Installation
7701 Telecom Parkway
Temple Terrace, FL 33637
Phone: (813) 978-2158 o.
(813) 957-5005 m.
Attn.: Daniel Collings

CABLE:

Bright House Networks,
LLC
2728 South Falkenburg Road
Riverview, FL 33569
Phone: 1 (888) 289-8988
Attn.: Frank Farris, Mike Smith

IRRIGATION:

City of Tampa - Parks
and Recreation Dept.
Irrigation Manager
Lowry Park Facilities Maintenance
7525 N. Blvd.
Tampa, FL 33604
Phone: (813) 931-2635
Attn.: Mark Neuberger, CPSI

MONITORING

WELLS (D.E.P.):
Earth Systems
445 Lantana Road
Lantana, FL 33462
Phone: (561) 588-3985 o.
(561) 723-3704 m.
Attn.: Scott Moore, PE

PLAN INDEX

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GENERAL PROJECT NOTES:

- GOVERNING STANDARDS AND SPECIFICATIONS - F.D.O.T. 2015 DESIGN STANDARDS AND SPECIFICATIONS.
- MP 12.585 TO MP12.850 = 40 M.P.H. (JUST WEST OF W. CENTRAL AVE. EASTWARD TO N. NEBRASKA AVE.)
- MP 12.585 TO MP 111.698 = 45 M.P.H. (JUST WEST OF N. CENTRAL AVE. WESTWARD TO LEE PLACE.
- PLANS HAVE BEEN DESIGNED USING THE LATEST F.D.O.T. STANDARDS AND THE CITY OF TAMPA CODES AND STANDARDS FOR 2015.
- A CITY OF TAMPA TREE REMOVAL PERMIT WILL BE REQUIRED FOR THIS PROJECT.
- A WATER METER APPLICATION WILL BE REQUIRED FOR THIS PROJECT.
- A PERMIT FOR BORE LOCATIONS WILL BE REQUIRED FROM THE CITY FOR LOCAL ROADS AND FROM FDOT FOR HILLSBOROUGH AVENUE.

CONTRACTOR TO CALL 811
PRIOR TO STARTING WORK

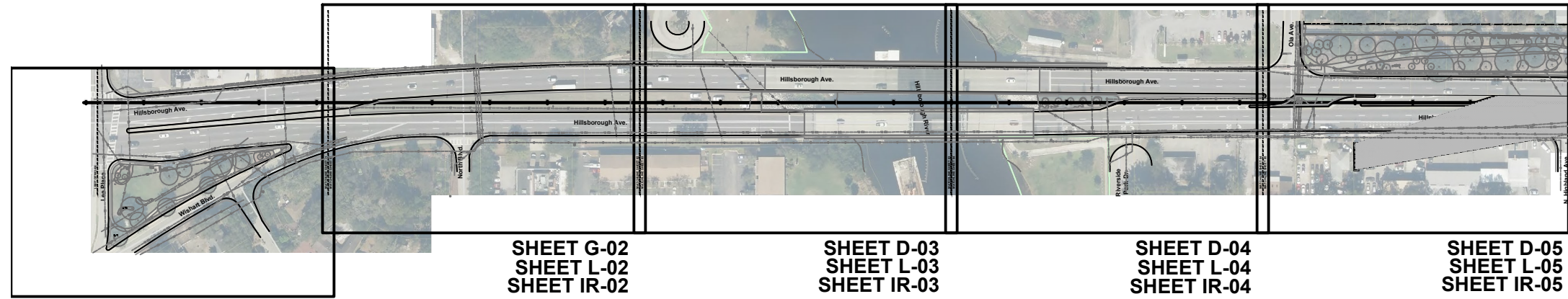


Know what's below.
Call before you dig.

Celia R. Nichols, R.L.A. ALSA
LA0001518

Signed and Sealed Date

SUBMITTAL
DATE: December 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 12/05/2015
JDB NO: 14-1.01



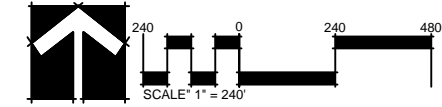
SHEET G-01
SHEET L-01
SHEET IR-01

SHEET G-02
SHEET L-02
SHEET IR-02

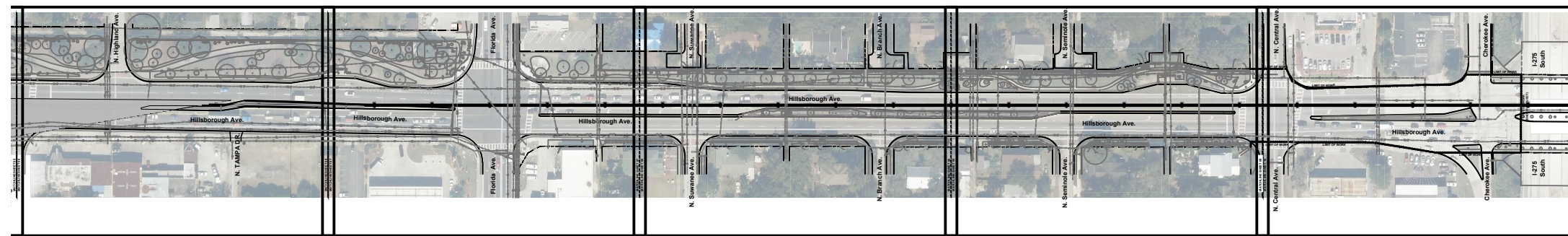
SHEET D-03
SHEET L-03
SHEET IR-03

SHEET D-04
SHEET L-04
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SHEET D-05
SHEET L-05
SHEET IR-05



PROJECT - WESTERN HALF (Hillsborough Avenue from Lee Place to Florida Avenue)



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SHEET IR-06
SHEET E-1

SHEET D-07
SHEET L-07
SHEET IR-07

SHEET D-08
SHEET L-08
SHEET IR-08

SHEET D-09
SHEET L-09
SHEET IR-09

SHEET D-10
SHEET L-10
SHEET IR-10



PROJECT - EASTERN HALF (Hillsborough Avenue from Florida Avenue to Southbound Overpass of I-275)

REVISIONS:	NO.	DATE	DESCRIPTION

NICHOLS
LANDSCAPE
ARCHITECTURE INC.

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813.948.8810 o.
www.nichols-la.com

813.298.8880 c.
cella@nichols-la.com
877.246.3714 f.
LC26006399

CLIENT: **CITY OF TAMPA**
3942 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**

LEE PLACE TO SOUTHBOUND OVERPASS OF I-275
CONTRACT NO. 16-C-0000

SHEET TITLE: **KEY SHEET**

Celia R. Nichols, RLA, ALSA
LA0001518

Date _____

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 10/5/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

K-01

100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

DISCLAIMER:
NICHOLS LANDSCAPE ARCHITECTURE, INC. ASSUMES NO LIABILITY FOR ALTERATIONS AND/OR CONSTRUCTION THAT DOES NOT CONFORM TO THE DESIGN DEPICTED ON THIS PLAN. NO CHANGES MAY BE MADE TO THIS PLAN WITHOUT EXPRESS WRITTEN CONSENT OF NICHOLS LANDSCAPE ARCHITECTURE, INC. IF ANY DEVIATIONS ARE REQUIRED FOR ANY REASON, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT MANAGER IMMEDIATELY.

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GENERAL NOTES

- Surveys, legal descriptions, easements, boundaries, topographic contours, cross sections, existing street rights-of-way, and existing improvements and other horizontal and vertical land surveying information have been furnished to the Landscape Architect by others. The Landscape Architect assumes no responsibility for their completeness, correctness, or accuracy.
- Contractor to field verify the location, depth, and existence of ALL existing water mains, force mains, electrical lines, fiber optic, telephone, CATV, and any surface or subsurface utilities.
- The Contractor shall protect all utilities and other improvements shown on these plans and all other utilities and other improvements not shown. The Contractor shall assume all responsibility for repairs of utilities and other improvements damaged during construction. The Contractor shall maintain sufficient protection to all utilities required to protect them from damage and to protect the public during construction. Any damage done to existing utilities shall be repaired by the contractor (at no additional expense) to a condition equal to or better than before the damage was done, and such repairs shall be completed as soon as possible.
- The Contractor shall notify the City Representative at least 48 hours before beginning construction.
- All construction and workmanship shall be in accordance with applicable portions of the Florida Department of Transportation's 2015 editions of both, the "Standard Specifications for Road and Bridge Construction", and "Roadway and Traffic Design Standards", and any applicable City of Tampa standards.
- Prior to construction, the Contractor shall obtain all Permits for this job. It shall be the Contractor's responsibility to ensure that all construction activities are in compliance with the conditions of all permits and approvals. It shall be the Contractor's responsibility to verify that all required permits have been secured to complete the work depicted in these plans. A copy of all permits shall be kept on site at all times during construction.
- It shall be the Contractor's responsibility to schedule all inspections (48 hours in advance) with the City Representative.
- The Contractor shall stop work and contact the the City Representative immediately upon any conflict arising during construction of any improvements shown on these drawings.
- It shall be the Contractor's responsibility to perform all necessary construction staking required to install the improvements shown on these drawings. Horizontal and vertical controls are shown on the boundary and topographic survey. Horizontal control shall be via an electronic file of the proposed improvements provided to the Contractor or his Surveyor. All documents, including original drawings, field notes, data and report originals are and shall remain the property of Nichols Landscape Architecture as an instrument of service. If so requested in writing, the Contractor will be provided with reproducible drawings and other documents in consideration of which the Contractor agrees to use them without alteration solely in connection with the project.
- The City Representative shall be consulted to make any/all required interpretations of the plans, however, this in no way relieves the Contractor of his responsibility for constructing the project to accomplish the intent of the plans.
- The Contractor shall obtain all R-O-W permits.
- The Contractor shall follow all FDOT Standard Indices for MOT. It is anticipated that this project will use the following Indices: 611, 613, 616, 619. The Contractor shall submit and gain approval of his MOT plan from FDOT.
- The Contractor shall provide FDOT Certified Traffic Control personnel when working on the roadway- maintaining all warning signals, signs, lights, barricades, and flagmen as required by F.D.O.T. for construction adjacent to, or in the public right-of-way.
- The Contractor through the permit process and/or other approved process shall notify the F.D.O.T. and the local Police Department and the local Fire Department before closing any street or alley way or making it impassable.
- Site preparation and fill placement shall be performed in accordance with the details specified in this drawing.
- It is suggested that the Contractor verify grading elevations prior to sodding or paving. Failure of adequate grading may result in resodding, regrading, and repairing if finished grades are incorrect.
- All on-site labor, materials and methods of installation shall be in accordance with the minimum Landscape and Irrigation installation standards and standards adopted by City of Tampa.
- Contractor to make provisions to avoid tracking dirt and construction debris to roadway via truck and equipment tires.
- Methods of controlling fugitive dust to be in accordance with F.D.O.T. standards.
- Erosion and sedimentation control to remain in place until all site construction has been completed and approved by the appropriate regulatory agencies.

- The Contractor shall be responsible for installation and maintenance of Erosion Protection during construction, per local and state regulations.
- Inlets and Inlet Grates: Inlets and inlet grates will be checked by contractor weekly during construction for blockage. Any debris blocking full flow through the grate will be removed.

UTILITY NOTES

- The Contractor shall coordinate with City of Tampa Utilities Department for valve box locations, and relocations, manhole or valve box lid replacements, and/or any other water/wastewater/ or reclaimed/irrigation issues.
- It is the contractor's responsibility to contact 811 and field locate all existing utilities prior to construction.

WATER METER NOTES

- Contractor to provide a backflow preventer at the time of connection to the existing meter. The new meter and backflow preventer shall be installed by the City. Contractor to verify all paperwork, etc. has been submitted at the time of NTP. See IRRIGATION specifications and notes.

SITE GRADING NOTES

- The Contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies, and where possible, measurements were taken in the field. The information is not to be relied on as being exact or complete. The Contractor must call the appropriate utility companies at least 72 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the Contractor to repair or replace any damaged utilities during his work, as agreed per their Contract with the City of Tampa.
- If any existing structures to remain are damaged during construction it shall be the Contractor's responsibility to repair and/or replace the existing structure as necessary to return it to existing condition or better.
- All manholes, valve box lids, meter lids, etc. in paved areas shall be flush with pavement, and shall have traffic bearing ring & covers.
- The contractor shall adhere to all terms & conditions as outlined in the Florida generic N.P.D.E.S. permit for storm water discharge associated with construction activities.
- Construction shall comply with all applicable governing codes and be constructed to same.

F.D.O.T. INSTALLATION AND M.O.T. NOTES

- All landscape material shall be installed and maintained at all times in a manner whereby traffic control signage and devices are visible to motorists and pedestrians.
- The City shall contact the Florida Department of Transportation (FDOT) Tampa Operations Center at (813) 612-3200 and One Call 811, two (2) full working days prior to the start of work. The City shall also contact FDOT Tampa Operations Center at (813) 612-3200 two (2) weeks prior to the beginning of installation in order to locate highway lighting conduit.
- Unless otherwise determined by the FDOT, any lane closures shall be restricted:
 - During daylight hours from 9 A.M. to 3 P.M. on week days only (Monday through Friday)
 - During night time hours (if applicable) from 9 P.M. to 5:30 P.M. on week nights only.
 - No Work shall be performed on State Holidays.
- The FDOT Operations Center shall be contacted at (813) 612-3200 a minimum of two (2) working days prior to anticipated lane closure to obtain permission.
- The City shall provide the FDOT with the name, contact telephone number, e-mail address and Advanced Training Certificate of the individual who will be the Work Zone Maintenance of Traffic (MOT) Safety Supervisor.

- All landscaping shall be installed and at all times maintained in accordance with FDOT Standard Indices 546 and 100 and all other applicable FDOT standards and regulations.
- Application of herbicides shall be performed by a person possessing a current Florida Restricted Use Pesticide License in the Core Curriculum, Right of Way and Aquatic categories.
- Pursuant to Section 2.10 of the Department's "Roadway and Roadside Maintenance" Procedure (Topic No. 850-000-015-1 of Jan. 1, 2014), all Contractors who contract the application of fertilizer shall ensure that they are licensed commercial applicators who have been trained through the Green Industry BMP Program, and have obtained a limited certification for urban commercial fertilizer under Section 481.562, F.S. The Contractor shall furnish the FDOT current copies of licenses / certifications belonging to personnel that will be involved in the application of fertilizer on the FDOT right of way prior to the start of work.
- Landscape shrubs and ground covers shall be maintained at all times whereby their foliage is kept trimmed at the outside edge of all sidewalks.
- Trees shall be maintained at all times in a manner whereby there is an 8' vertical clearance between the grade of all sidewalks and the bottom canopy of foliage.
- Landscape shrubs and ground covers shall be maintained at all times whereby their foliage is kept inside edge of curbs at median locations.
- Trees shall be maintained at all times in a manner whereby there is an 14.5' vertical clearance between the grade of the travel lane/ way and the bottom canopy of foliage.



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cella@nicholsla.com
LC2600399
877.246.3714 f.

CLIENT:
CITY OF TAMPA

3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**

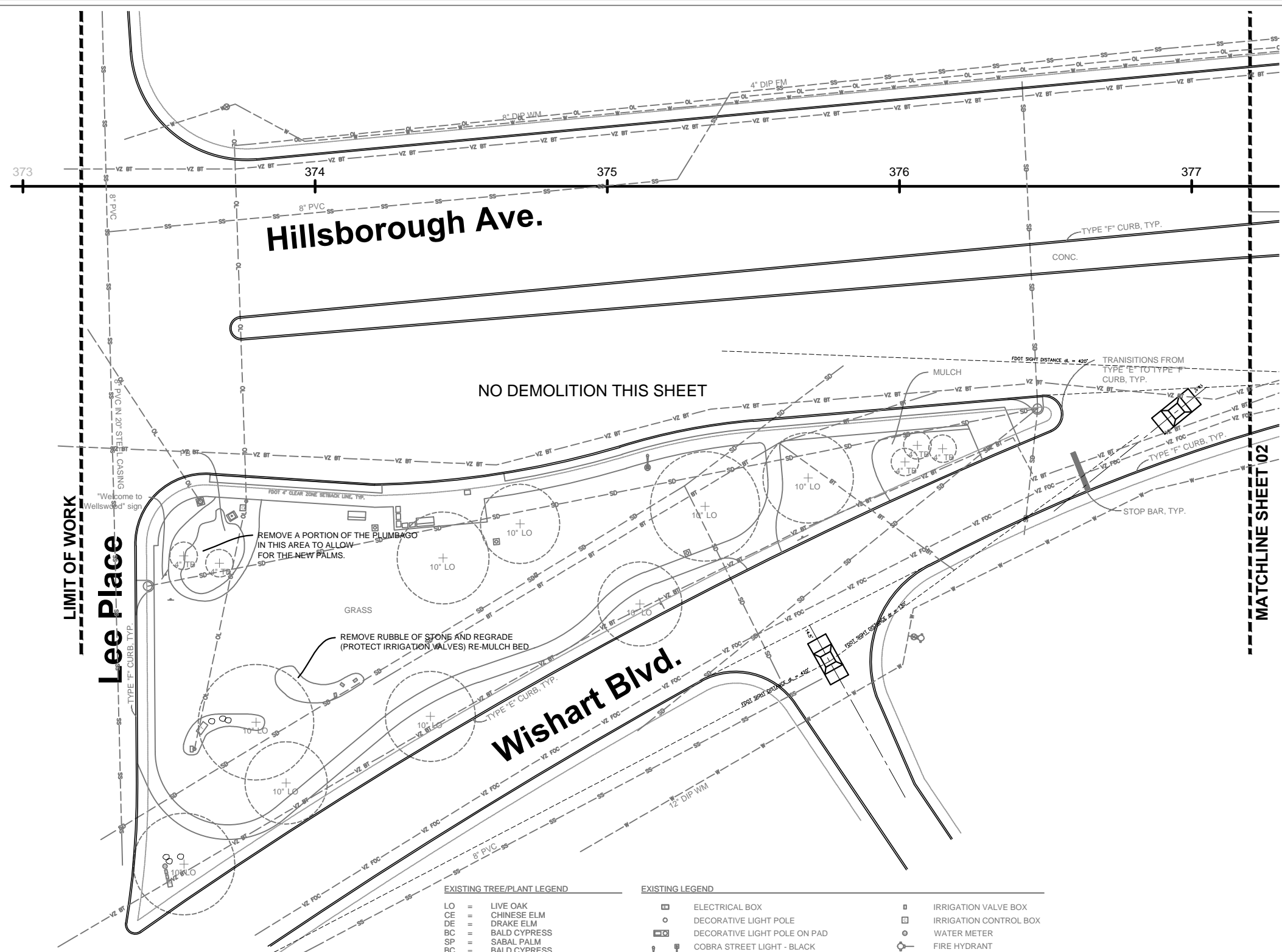
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
GENERAL NOTES

Celia R. Nichols, RLA, ALSA
LA0001518

Date

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN
REVIEWED BY: CRN 12/5/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER



DEMOLITION AND TREE PROTECTION LEGEND

- EXISTING SHRUB TO BE REMOVED
- EXISTING SHRUBS TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PROTECTED WITH FENCE/ BARRIER
- BEDS AREAS TO BE CLEARED & GRUBBED (CONTRACTOR TO PREPARE AREAS FOR NEW BAHIA AND/ OR NEW PLANT BEDS)
- EXISTING PLANT ITEM TO BE RELOCATED (CONTRACTOR TO COORDINATE IN ADVANCE WITH CITY OF TAMPA'S REPRESENTATIVE FOR TEMPORARY RELOCATION OPTIONS)

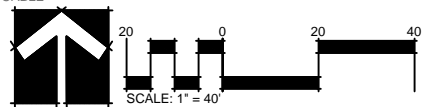
- BASE PLAN NOTES:
- CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING, BY CALLING 811.
 - NO OFFICIAL SURVEY WAS PERFORMED FOR THIS PROJECT. NICHOLS LANDSCAPE ARCHITECTURE, INC (NLA) DID NOT FIND ANY AS-BUILTS OR CURRENT PLANS FOR THIS PROJECT AREA.
 - THE BASE SHEETS WERE CREATED USING DIFFERENT SOURCES: F.D.O.T. WIDENING PLANS FOR HILLSBOROUGH AVENUE (FROM LEE PLACE TO FLORIDA AVENUE) - NOT DATED (PROJECT # 10150-6547), FLORIDA AVENUE TO N. CENTRAL AVENUE, DATED 03/1994 (PROJECT #10150-3543), A GOOGLE EARTH AERIAL, AND OUR OWN FIELD MEASUREMENTS.
 - FOR THE UTILITIES SHOWN, ONLY THOSE UTILITIES THAT COULD BE IMPACTED BY THE PROPOSED PLANTING HAVE BEEN SHOWN. THE UTILITY INFORMATION SHOWN IS BASED UPON THE UTILITIES THAT HAVE PROVIDED INFORMATION AS REQUESTED BY NLA.
 - NLA HAS ADDED INFORMATION AND MADE ADJUSTMENTS BASED UPON FIELD OBSERVATIONS. SOME UTILITIES MAY ACTUALLY BE ABANDONED, SHOWN IN THE WRONG LOCATION OR NOT SHOWN AT ALL.
 - NICHOLS LANDSCAPE ARCHITECTURE, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF THIS BASE PLAN. THESE BASE PLANS ARE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AS NECESSARY AND MAKE ADJUSTMENTS AS REQUIRED.

EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
CL	=	CHERRY LAUREL
PD	=	PODOCARPUS
UT	=	UMBRELLA TREE
CB	=	CORAL BEAN
BT	=	BLACK STEMMED TUBEFLOWER
SH	=	SCHILLINGS HOLLY
BH	=	BURFORD OR CORNUTA HOLLY
PI	=	PURPLE IRIS
MT	=	MOTHER-IN-LAW'S TONGUE
GI	=	GINGER PLANT
SB	=	SPARTINA
PJ	=	PARSONS JUNIPER
PL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		STORMWATER LINE
	TRAFFIC CAMERA		SANITARY SEWER LINE
	CROSSWALK SIGNAL		WATER LINE
	CABLE MARKER		OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VERIZON FIBER OPTIC CABLE
	STREET SIGN		BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV LINE
	NEWSPAPER BOX		GAS LINE
			FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



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REVISIONS:

NO.	DATE	DESCRIPTION

NICHOLS
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cella@nichols-la.com
877.246.3714 f.
LC2600699



CLIENT: **CITY OF TAMPA**
5940 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 16-C-0001

SHEET TITLE: **DEMOLITION WITH TREE PROTECTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015

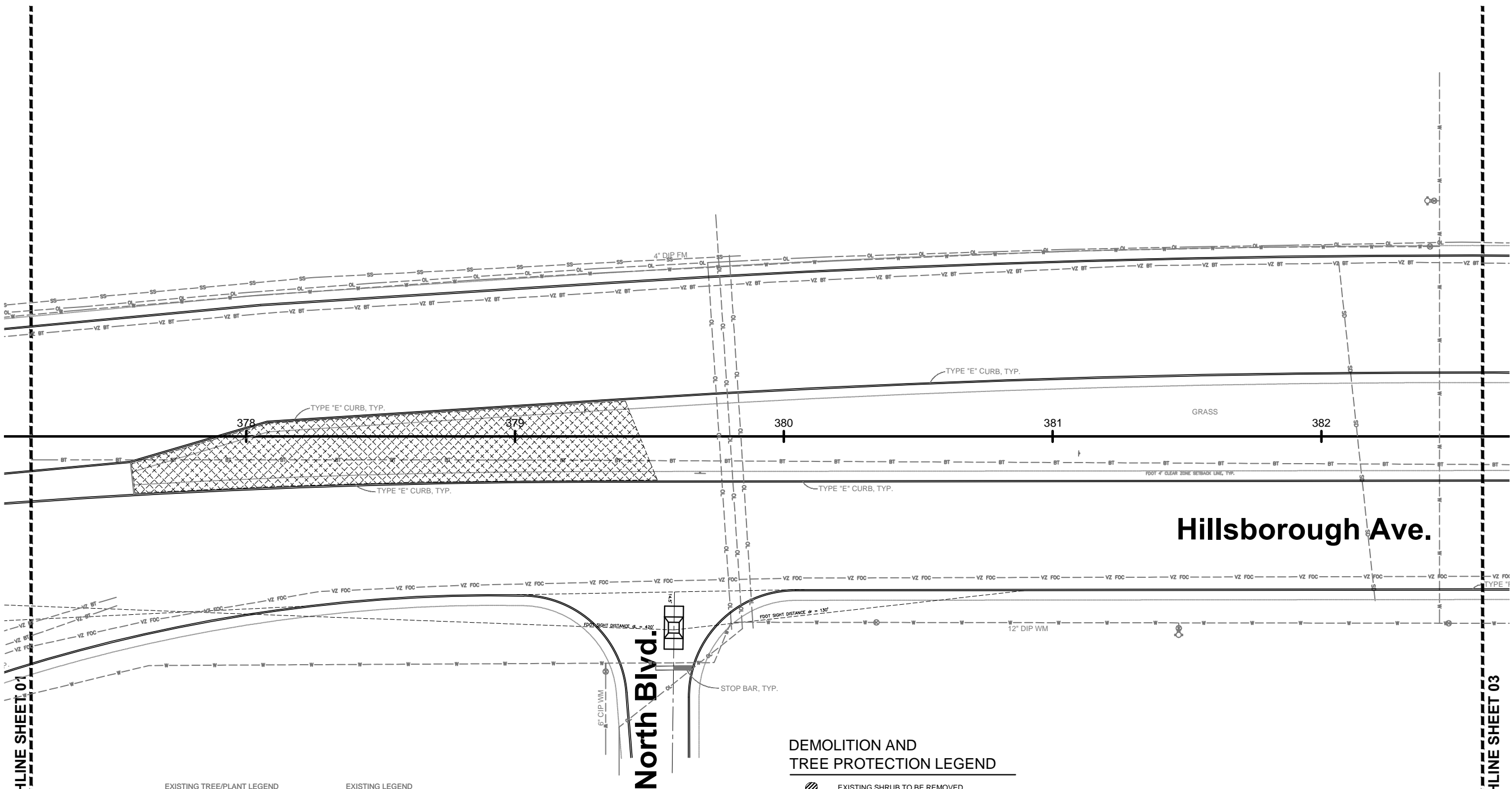
DRAWN BY: CRN/ MG

REVIEWED BY: CRN 12/5/2015

NLA JOB NO: COTH14-1.01

SHEET NUMBER

D-01



DEMOLITION AND TREE PROTECTION LEGEND

- EXISTING SHRUB TO BE REMOVED
- EXISTING SHRUBS TO BE REMOVED
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EXISTING TREE/PLANT LEGEND		EXISTING LEGEND	
LO = LIVE OAK		ELECTRICAL BOX	
CE = CHINESE ELM		DECORATIVE LIGHT POLE	IRRIGATION VALVE BOX
DE = DRAKE ELM		DECORATIVE LIGHT POLE ON PAD	IRRIGATION CONTROL BOX
BC = BALD CYPRESS		COBRA STREET LIGHT - BLACK	WATER METER
SP = SABAL PALM		COBRA STREET LIGHT - BLACK ON PAD	FIRE HYDRANT
BC = BALD CYPRESS		COBRA STREET LIGHT - SILVER	GATE VALVE
TL = TREE LIGUSTRUM		POWER POLE	MONITORING WELL
CM = CRAPE MYRTLE		POWER METER ON POLE	MANHOLE
SP = SABAL PALM		POWER METER ON CONC. POLE	CURB INLET
PY = PYGMY DATE PALM		TELEPHONE BOX	CURB INLET #2
HB = HIBISCUS		TRAFFIC CONTROL BOX	FENCE
WJ = WAX JASMINE		TRAFFIC CAMERA	STORMWATER LINE
CL = CHERRY LAUREL		CROSSWALK SIGNAL	SANITARY SEWER LINE
PD = PODOCARPUS		CABLE MARKER	WATER LINE
UT = UMBRELLA TREE		TRAFFIC SIGNS	OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSING)
CB = CORAL BEAN		HISTORIC SIGN	VERIZON BURIED TELEPHONE
BT = BLACK STEMMED TUBEFLOWER		STREET SIGN	VERIZON FIBER OPTIC CABLE
SH = SCHILLINGS HOLLY		DIRECTIONAL SIGNS	BURIED TELEPHONE
BH = BURFORD OR CORNUTA HOLLY		NEWSPAPER BOX	CATV LINE
PI = PURPLE IRIS			GAS LINE
MT = MOTHER-IN LAW'S TONGUE			FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB
GI = GINGER PLANT			
SB = SPARTINA			
PJ = PARSONS JUNIPER			
EL = PLUMBAGO			
LI = LIRIOPE			
PH = PURPLE HEART			
LA = LANTANA			
OP = ORNAMENTAL PEANUT			

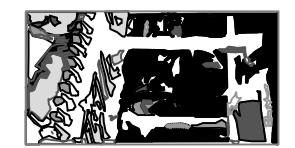


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REVISIONS:

NO.	DATE	DESCRIPTION

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LC2600399



CLIENT: **CITY OF TAMPA**
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE: **DEMOLITION WITH TREE PROTECTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

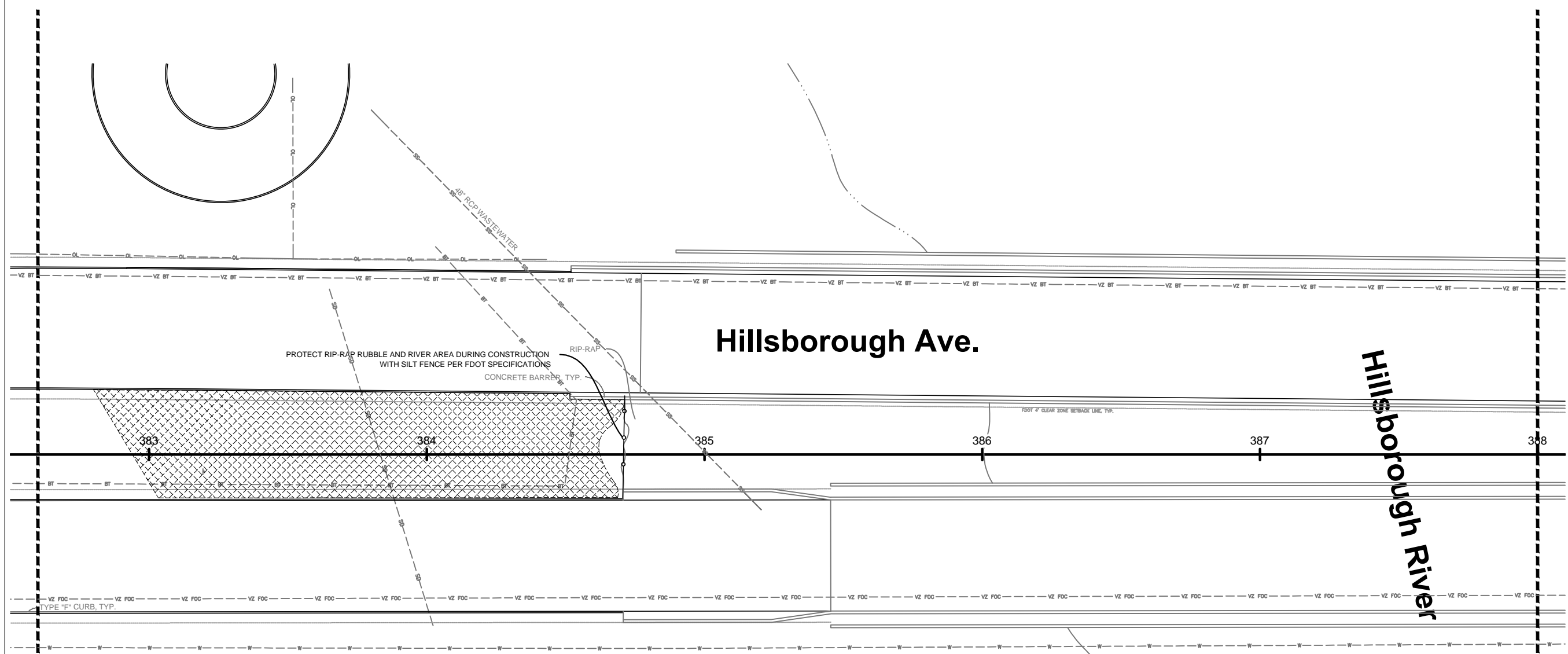
Date _____

SUBMITTAL DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN/ MG
REVIEWED BY:	CRN 12/7/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	

D-02

MATCHLINE SHEET 02

MATCHLINE SHEET 04



EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	GRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
CL	=	CHERRY LAUREL
PD	=	PODOCARPUS
UT	=	UMBRELLA TREE
CB	=	CORAL BEAN
BT	=	BLACK STEMMED TUBEFLOWER
SH	=	SCHILLINGS HOLLY
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PI	=	PURPLE IRIS
MT	=	MOTHER-IN-LAW'S TONGUE
GI	=	GINGER PLANT
SB	=	SPARTINA
PJ	=	PARSONS JUNIPER
EL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		STORMWATER LINE
	TRAFFIC CAMERA		SANITARY SEWER LINE
	CROSSWALK SIGNAL		WATER LINE
	CABLE MARKER		OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VERIZON FIBER OPTIC CABLE
	STREET SIGN		BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV LINE
	NEWSPAPER BOX		GAS LINE
			FDOT 4' CLEARZONE <small>SETBACK FROM FACE OF CURB</small>

DEMOLITION AND TREE PROTECTION LEGEND

- EXISTING SHRUB TO BE REMOVED
- EXISTING SHRUBS TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PROTECTED WITH FENCE/BARRIER
- BEDS AREAS TO BE CLEARED & GRUBBED
(CONTRACTOR TO PREPARE AREAS FOR NEW BAHIA AND/ OR NEW PLANT BEDS)
- EXISTING PLANT ITEM TO BE RELOCATED
(CONTRACTOR TO COORDINATE IN ADVANCE WITH CITY OF TAMPA'S REPRESENTATIVE FOR TEMPORARY RELOCATION OPTIONS)



100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

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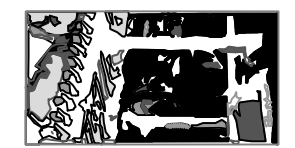
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NO.	DATE	DESCRIPTION

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LC2600399



CLIENT: **CITY OF TAMPA**
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE: **DEMOLITION WITH TREE PROTECTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

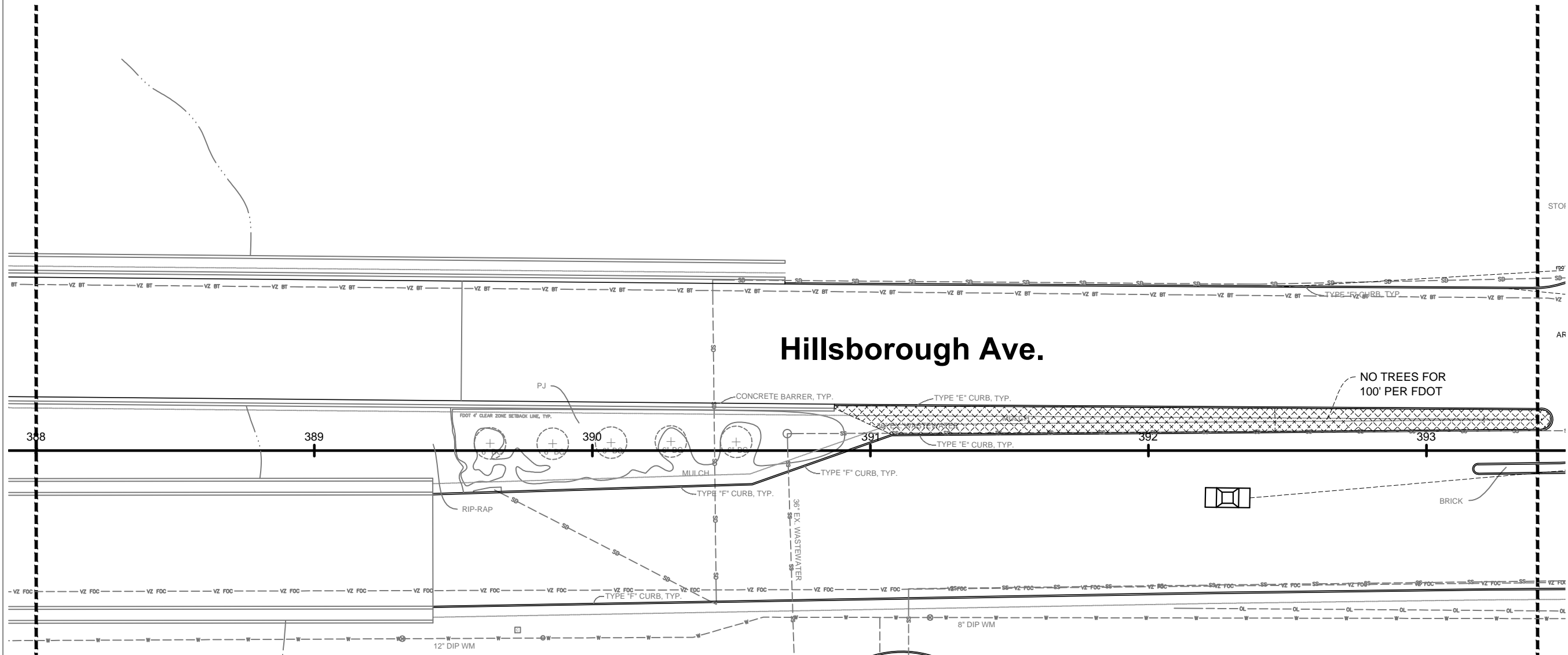
Date _____

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 12/7/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

D-03

MATCHLINE SHEET 03

MATCHLINE SHEET 05



EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	GRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
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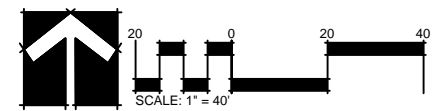
EXISTING LEGEND

	=	ELECTRICAL BOX
	=	DECORATIVE LIGHT POLE
	=	DECORATIVE LIGHT POLE ON PAD
	=	COBRA STREET LIGHT - BLACK
	=	COBRA STREET LIGHT - BLACK ON PAD
	=	COBRA STREET LIGHT - SILVER
	=	POWER POLE
	=	POWER METER ON POLE
	=	POWER METER ON CONC. POLE
	=	TELEPHONE BOX
	=	TRAFFIC CONTROL BOX
	=	TRAFFIC CAMERA
	=	CROSSWALK SIGNAL
	=	CABLE MARKER
	=	TRAFFIC SIGNS
	=	HISTORIC SIGN
	=	STREET SIGN
	=	DIRECTIONAL SIGNS
	=	NEWSPAPER BOX
	=	IRRIGATION VALVE BOX
	=	IRRIGATION CONTROL BOX
	=	WATER METER
	=	FIRE HYDRANT
	=	GATE VALVE
	=	MONITORING WELL
	=	MANHOLE
	=	CURB INLET
	=	CURB INLET #2
	=	FENCE
	=	STORMWATER LINE
	=	SANITARY SEWER LINE
	=	WATER LINE
	=	OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	=	VERIZON BURIED TELEPHONE
	=	VERIZON FIBER OPTIC CABLE
	=	BURIED TELEPHONE
	=	CATV LINE
	=	GAS LINE
	=	FDOT 4' CLEARZONE <small>SETBACK FROM FACE OF CURB</small>

Riverside Park Dr.

DEMOLITION AND TREE PROTECTION LEGEND

	=	EXISTING SHRUB TO BE REMOVED
	=	EXISTING SHRUBS TO BE REMOVED
	=	EXISTING TREE TO BE REMOVED
	=	EXISTING TREE TO BE PROTECTED WITH FENCE/BARRIER
	=	BEDS AREAS TO BE CLEARED & GRUBBED (CONTRACTOR TO PREPARE AREAS FOR NEW BAHIA AND/OR NEW PLANT BEDS)
	=	EXISTING PLANT ITEM TO BE RELOCATED (CONTRACTOR TO COORDINATE IN ADVANCE WITH CITY OF TAMPA'S REPRESENTATIVE FOR TEMPORARY RELOCATION OPTIONS)



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CITY OF TAMPA
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

DEMOLITION WITH
TREE PROTECTION PLAN

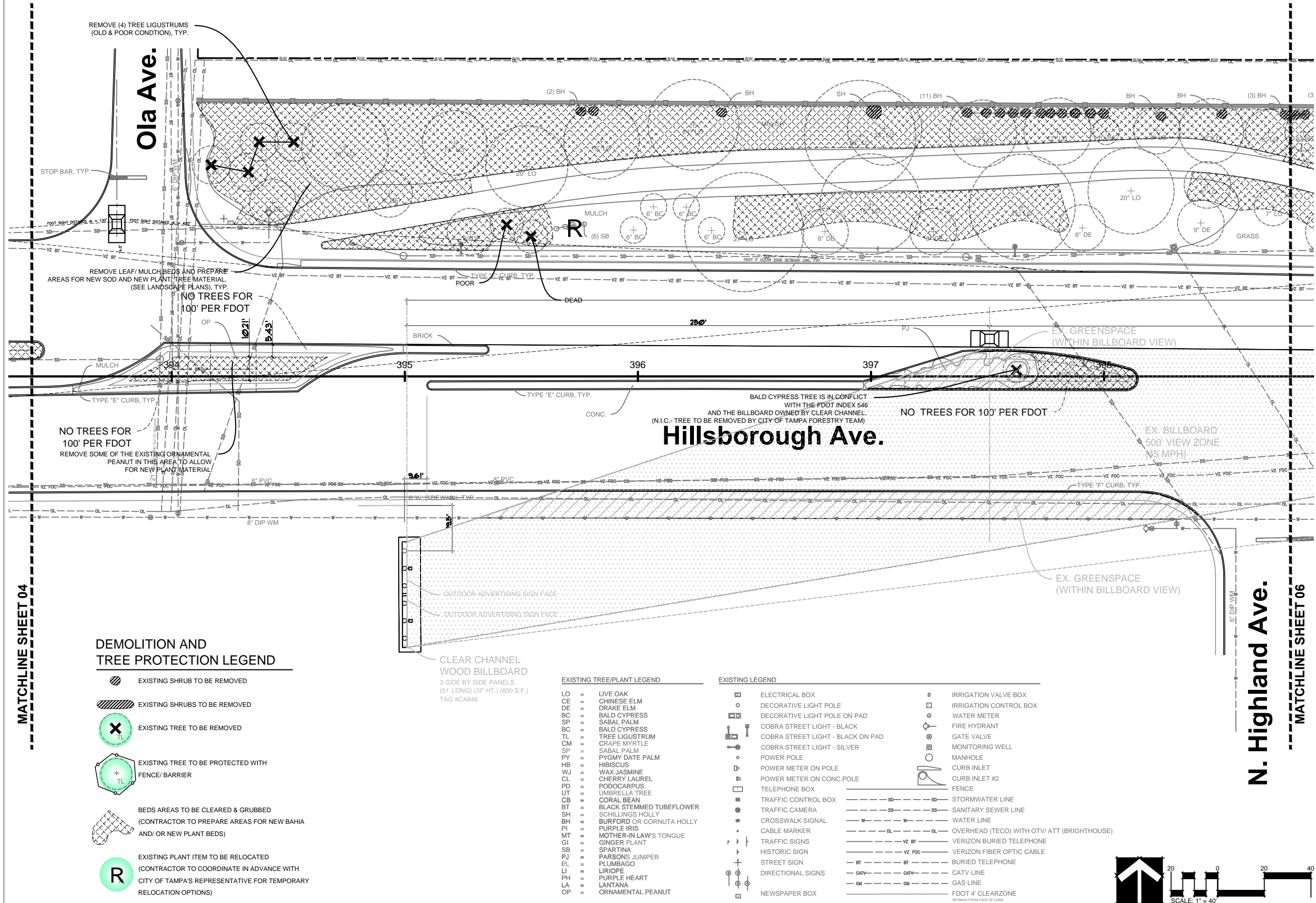
Celia R. Nichols, RLA, ALSA
LA0001518

Date

SUBMITTAL DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN/ MG
REVIEWED BY:	CRN 12/5/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	

D-04

MATCHLINE SHEET 04



DEMOLITION AND TREE PROTECTION LEGEND

- EXISTING SHRUB TO BE REMOVED
- EXISTING SHRUBS TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PROTECTED WITH FENCE/ BARRIER
- BEDS AREAS TO BE CLEARED & GRUBBED (CONTRACTOR TO PREPARE AREAS FOR NEW BAHIA AND/ OR NEW PLANT BEDS)
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- EXISTING TREE/PLANT LEGEND**
- LO = LIVE OAK
 - CE = CHINESE ELM
 - DE = DRAKE ELM
 - BC = BALD CYPRESS
 - SP = SABAL PALM
 - CM = CRAPE MYRTLE
 - SP = SABAL PALM
 - PY = PYGMY DATE PALM
 - HB = HIBISCUS
 - WJ = WAX JASMINE
 - CL = CHERRY LAUREL
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 - UT = UMBRELLA TREE
 - CB = CORAL BEAN
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 - PJ = PARSONS JUNIPER
 - EL = PLUMBAGO
 - LJ = LIRIOPE
 - PH = PURPLE HEART
 - LA = LANTANA
 - OP = ORNAMENTAL PEANUT

- EXISTING LEGEND**
- ELECTRICAL BOX
 - DECORATIVE LIGHT POLE
 - DECORATIVE LIGHT POLE ON PAD
 - COBRA STREET LIGHT - BLACK
 - COBRA STREET LIGHT - BLACK ON PAD
 - COBRA STREET LIGHT - SILVER
 - POWER POLE
 - POWER METER ON POLE
 - POWER METER ON CONC. POLE
 - TELEPHONE BOX
 - TRAFFIC CONTROL BOX
 - TRAFFIC CAMERA
 - CROSSWALK SIGNAL
 - CABLE MARKER
 - TRAFFIC SIGNS
 - HISTORIC SIGN
 - STREET SIGN
 - DIRECTIONAL SIGNS
 - NEWSPAPER BOX
 - IRRIGATION VALVE BOX
 - IRRIGATION CONTROL BOX
 - WATER METER
 - FIRE HYDRANT
 - GATE VALVE
 - MONITORING WELL
 - MANHOLE
 - CURB INLET
 - CURB INLET #2
 - FENCE
 - STORMWATER LINE
 - SANITARY SEWER LINE
 - WATER LINE
 - OVERHEAD (TECO) WITH OTV/ ATT (BRIGHHOUSE)
 - VERIZON BURIED TELEPHONE
 - VERIZON FIBER OPTIC CABLE
 - BURIED TELEPHONE
 - CATV LINE
 - GAS LINE
 - FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)

CLEAR CHANNEL WOOD BILLBOARD
2-SIDE BY SIDE PANELS
(51' LONG) (37' HT.) (600 S.F.)
TAG #CA846

BALD CYPRESS TREE IS IN CONFLICT WITH THE FDOT INDEX 546 AND THE BILLBOARD OWNED BY CLEAR CHANNEL. (N.I.C. - TREE TO BE REMOVED BY CITY OF TAMPA FORESTRY TEAM)

Hillsborough Ave.

N. Highland Ave.

MATCHLINE SHEET 06

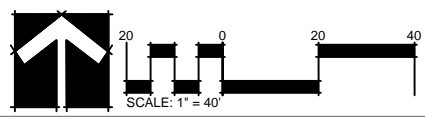
CITY OF TAMPA
3402 W. COLUMBUS DRIVE
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HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
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DEMOLITION WITH TREE PROTECTION PLAN

Celia R. Nichols, RLA, ALSA
LA0001518

Date _____
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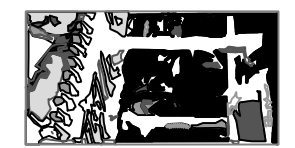
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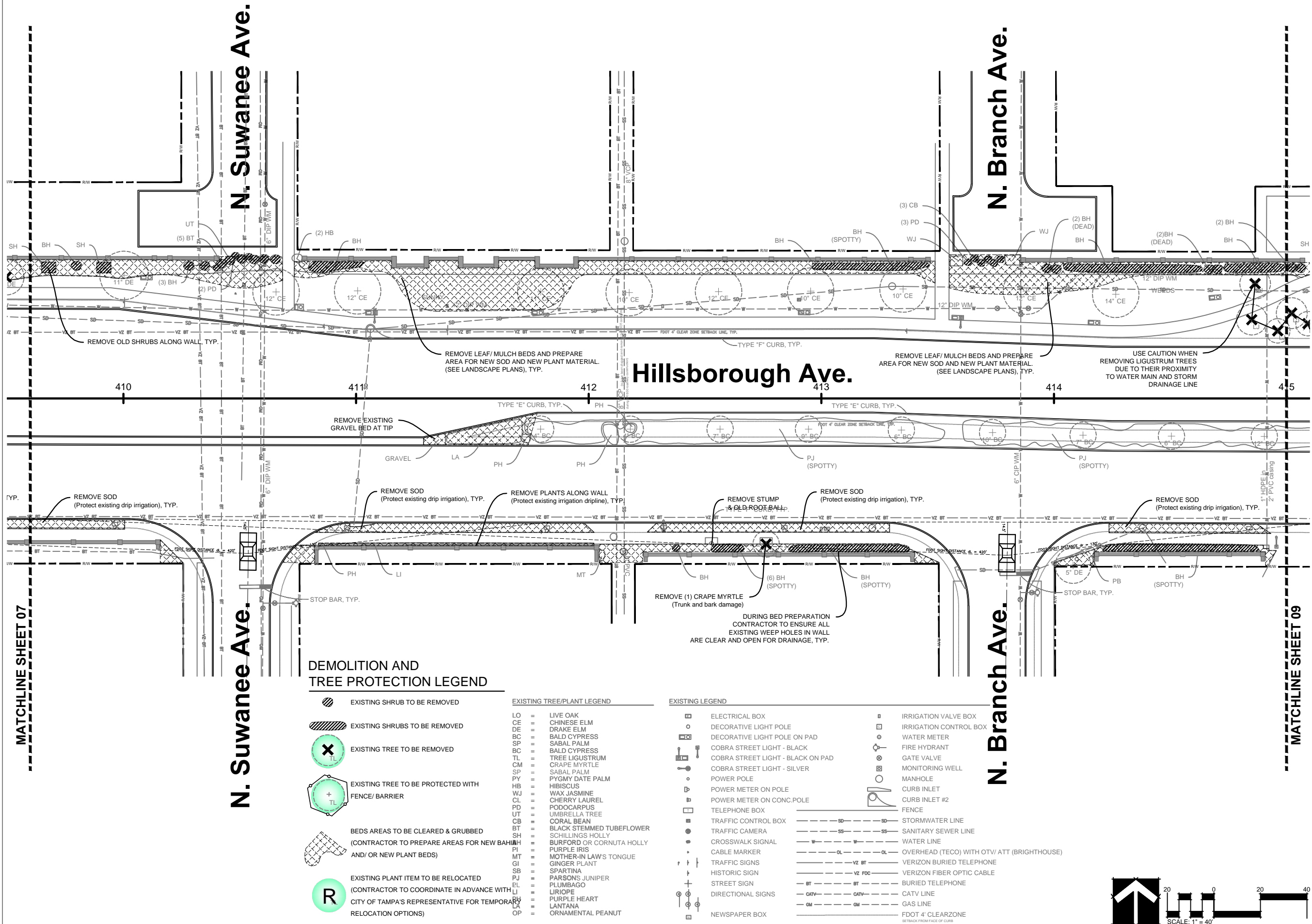
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D-05



DEMOLITION AND TREE PROTECTION LEGEND

- EXISTING SHRUB TO BE REMOVED
- EXISTING SHRUBS TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PROTECTED WITH FENCE/ BARRIER
- EXISTING TREE TO BE PROTECTED WITH FENCE/ BARRIER
- BEDS AREAS TO BE CLEARED & GRUBBED (CONTRACTOR TO PREPARE AREAS FOR NEW BAHIA AND/ OR NEW PLANT BEDS)
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- EXISTING LEGEND**
- ELECTRICAL BOX
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 - DECORATIVE LIGHT POLE ON PAD
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 - TRAFFIC CAMERA
 - CROSSWALK SIGNAL
 - CABLE MARKER
 - TRAFFIC SIGNS
 - HISTORIC SIGN
 - STREET SIGN
 - DIRECTIONAL SIGNS
 - NEWSPAPER BOX

- IRRIGATION VALVE BOX
- IRRIGATION CONTROL BOX
- WATER METER
- FIRE HYDRANT
- GATE VALVE
- MONITORING WELL
- MANHOLE
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- CURB INLET #2
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- CATV LINE
- GAS LINE
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CITY OF TAMPA
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PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**

LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
**DEMOLITION WITH
TREE PROTECTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date _____

SUBMITTAL DATE: DECEMBER 17, 2015

DRAWN BY: CRN/ MG

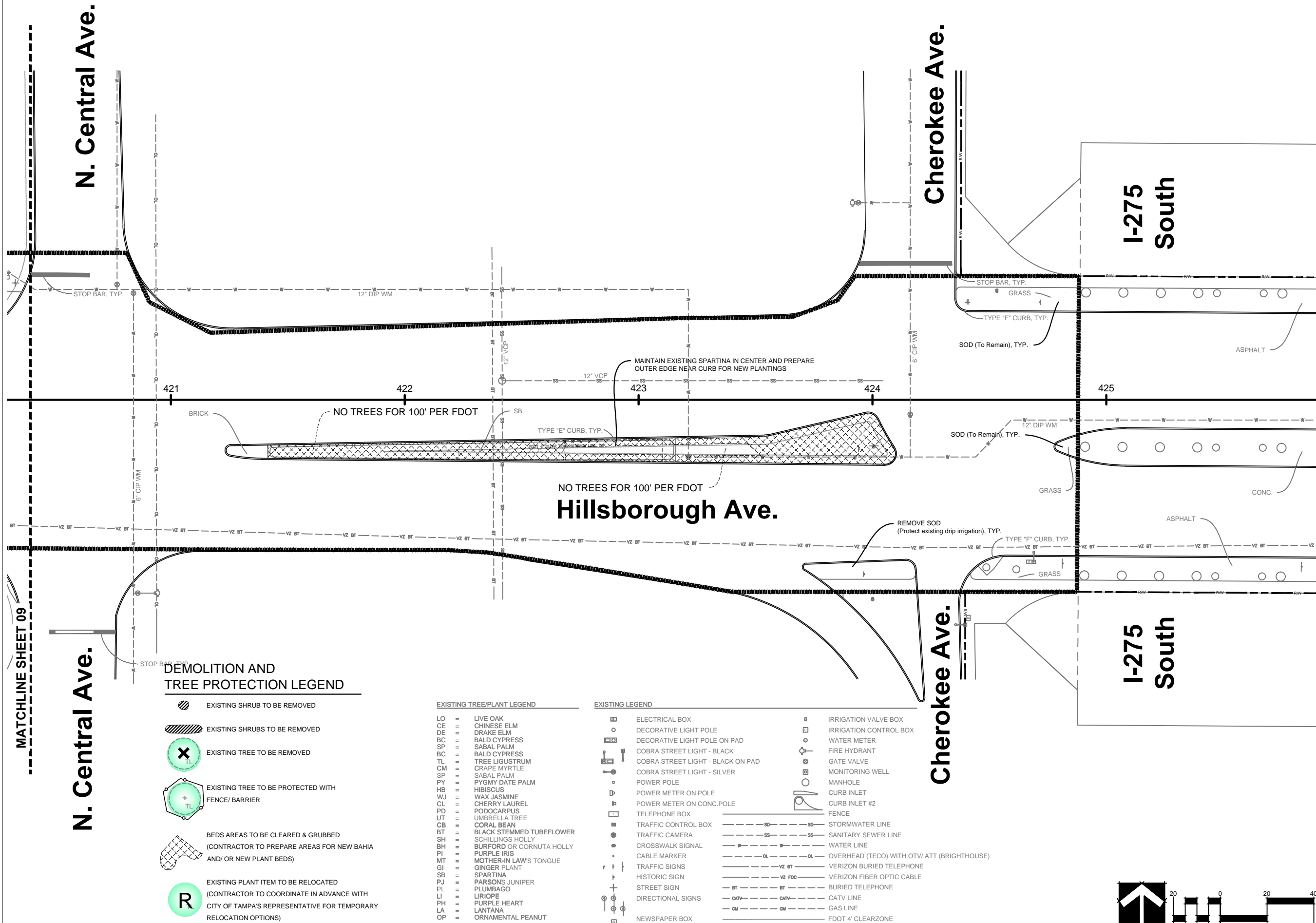
REVIEWED BY: CRN 12/5/2015

NLA JOB NO: COTH14-1.01

SHEET NUMBER

D-08

MATCHLINE SHEET 09



DEMOLITION AND TREE PROTECTION LEGEND

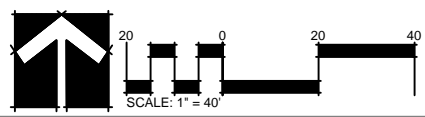
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- FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



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REVISIONS:

NO.	DATE	DESCRIPTION

NICHOLS
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LC2600399



CLIENT: **CITY OF TAMPA**
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE: **DEMOLITION WITH TREE PROTECTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date _____

SUBMITTAL DATE: DECEMBER 17, 2015

DRAWN BY: CRN/ MG

REVIEWED BY: CRN 12/5/2015

NLA JOB NO: COTH14-1.01

SHEET NUMBER

D-10

DEMOLITION AND TREE PROTECTION GENERAL NOTES:

1. CONTRACTOR TO COORDINATE AND CALL 811 TO LOCATE ALL UTILITIES BEFORE COMMENCING ANY WORK.
2. ANY ITEM NOT IDENTIFIED TO BE REMOVED/DEMOLISHED OR RELOCATED SHALL REMAIN PROTECTED PER THE F.D.O.T. AND CITY.
3. ALL EXISTING TRAFFIC CONTROL AND DIRECTIONAL SIGNAGE (CITY OF TAMPA, FDOT, & OTHERS) SHALL REMAIN IN CURRENT LOCATIONS. CONTRACTOR TO PROTECT SIGNS FROM DAMAGE AND MEET THE STANDARDS FOR THE STATE, COUNTY, F.D.O.T. AND CITY.
4. CONTRACTOR TO PROTECT ALL EXISTING INLETS WHERE GRADING AND DRAINAGE WORK IS BEING DONE. FOLLOW FDOT STANDARDS FOR PROTECTION METHODS.
5. CONTRACTOR TO FOLLOW F.D.O.T. STANDARD INDICES: 611, 613, 616, AND 619 CURRENT EDITION AND OTHERS THAT MAY APPLY TO THIS PROJECT.
6. CONTRACTOR TO USE F.D.O.T. M.O.T. STANDARD INDICES: MEDIAN AND ROW WORK, FOR CLOSING SIDEWALKS OR PATHS, FOR DEMOLITION, TREE PROTECTION, EARTHWORK, TREE RELOCATION ACTIVITIES AND ALL CONSTRUCTION INSTALLATION WORK, UNTIL FINAL ACCEPTANCE.
7. SEE ELECTRICAL PLANS FOR CUT & CAP LOCATIONS OF EXISTING POWER SUPPLY AND OTHER UTILITIES.
8. IMPORTANT: UPON THE NOTICE TO PROCEED, CONTRACTOR TO TAKE A MINIMUM OF (10) SEPARATE SOIL SAMPLE TESTS. ONE SAMPLE OF SOIL SHALL BE DONE PER BLOCK/ SHEET AT NEW PLANTING LOCATIONS. SAMPLES SHALL BE DONE USING A SOIL PROBE AND INCLUDE AT LEAST A 1/2 PINT MIN. TO A DEPTH OF 6". EACH SAMPLE BAG SHALL BE PROPERLY NOTED AND LABELED (WITH ITS NUMBER AND LOCATION AND A COPY OF THIS LIST OR PLAN SHALL BE PROVIDED TO THE CITY OF TAMPA'S REPRESENTATIVE. THE CONTRACTOR SHALL SEND THESE SAMPLES TO AN INDEPENDENT LAB SUCH AS UF-IFAS TO TEST FOR SOIL PH, LIME REQUIREMENTS, AND SOIL FERTILITY WITH MICRO-NUTRIENTS. CONTRACTOR TO PROVIDE SAME NUMBER AND LOCATION FOR A PERCOLATION TEST, TO ENSURE THESE AREAS ARE ALL SUITABLE FOR PLANTING AND NOT COMPACTED. THE RESULTS SHALL BE IMMEDIATELY PROVIDED TO THE CITY'S REPRESENTATIVE PRIOR TO ANY SOIL MIX AND NURSERY TREE/ PLANT ORDERS AND BEFORE ANY INSTALLATION BY THE CONTRACTOR. THE PROJECT'S SOIL "REMEDY" MIX SHALL BE AGREED TO IN ADVANCE BY ALL PARTIES.
9. IF, IN THE COURSE OF DEMOLITION, SUB-BASE IS FOUND, THEN THE CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY. ADDITIONAL EXCAVATION MAY BE NEEDED TO PROVIDE FOR THE NEW LANDSCAPE BEDS. UPON DIRECTION BY THE CITY'S REPRESENTATIVE, THE CONTRACTOR SHALL REMEDY THE SOIL IF NECESSARY BY REMOVING GRAVEL OR SUB-BASE AND PROVIDING A NEW SOIL MIX. THIS MIX SHALL BE DONE PER NEW SOIL TEST SAMPLES SUBMITTED TO THE SOIL TESTING LAB AT THESE PROBLEMATIC LOCATIONS. IT MAY BE NECESSARY TO ADD LIME OR OTHER ADDITIVES TO IMPROVE THE SOIL, IN ADDITION TO THE ORIGINAL TEST RESULT'S REQUIREMENTS FOR THIS AREA.
10. EXISTING TREES AND VEGETATION TO REMAIN SHALL BE PROPERLY PROTECTED PER THE F.D.O.T. STANDARD INDEX 544, SHEET 3 OF 3 AND REMAIN IN PLACE UNTIL PROJECT ACCEPTANCE BY THE CITY OF TAMPA AND THE F.D.O.T.
11. CONTRACTOR TO COORDINATE WITH THE CITY'S REPRESENTATIVE IN ADVANCE, ON THE EXISTING GRAPE MYRTLES TO BE REMOVED. CONTRACTOR TO ENSURE THE TREE GRATES

12. ARE PROTECTED AND STORED SECURELY DURING THIS PROJECT. CONTRACTOR TO ENSURE THAT THESE PRESERVED TREE GRATES ARE MODIFIED BY THE CITY, TO ENLARGE THE "RING OPENING" BEFORE RE-INSTALLATION OF THESE GRATES. ANY BROKEN TREE GRATES SHALL BE REPLACED BY THE CONTRACTOR TO MATCH EXISTING.
12. ALL TREES TO REMOVED SHALL INCLUDE FULLY REMOVING THE EXISTING ROOTS AND ROOT BALL TO A DEPTH OF 30" MINIMUM.
13. ALL TREES TO BE RELOCATED - TRANSPLANTED, SHALL BE COORDINATED IN ADVANCE, WITH THE CITY OF TAMPA PARKS AND RECREATION DEPARTMENT. THE TREES TO BE TRANSPLANTED AS NOTED ON THE DEMOLITION PLANS, WILL BE RELOCATED ON THIS SAME PROJECT SITE. REFER TO THE LANDSCAPE PLANS FOR THEIR NEW LOCATIONS. THESE TREES MUST BE IRRIGATED PER THE CITY OF TAMPA RECREATION DEPARTMENTS REQUIREMENTS UPON BOTH INITIAL ROOT PRUNING OF EACH TREE AND THEN UPON THE TRANSPLANTING PROCESS. COORDINATION IS CRITICAL TO THIS ASPECT OF THE PROJECT.
14. CONTRACTOR'S BID SHALL INCLUDE PROVIDING FINISH GRADES AND BED PREPARATION AS NOTED ON THESE PLANS.
15. THE "TREE TRANSPLANTING METHOD" SHALL BE WRITTEN UP BY THE CONTRACTOR AND APPROVED BY THE CITY OF TAMPA'S PARKS AND RECREATION DEPARTMENT IN ADVANCE. IT IS RECOMMENDED THESE TREES BE ROOT PRUNED AT THE START OF THE PROJECT, PREFERABLY IN THE WINTER OR COOLER MONTHS IF POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THESE TRANSPLANTED TREES IF DAMAGED AND/ OR FOR THEIR FAILURE TO SURVIVE FOR 6 MONTHS.



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REVISIONS:	NO.	DATE	DESCRIPTION

CLIENT:
CITY OF TAMPA
5402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
**DEMOLITION AND TREE
PROTECTION DETAILS & NOTES**

Celia R. Nichols, RLA, ALSA
LA0001518

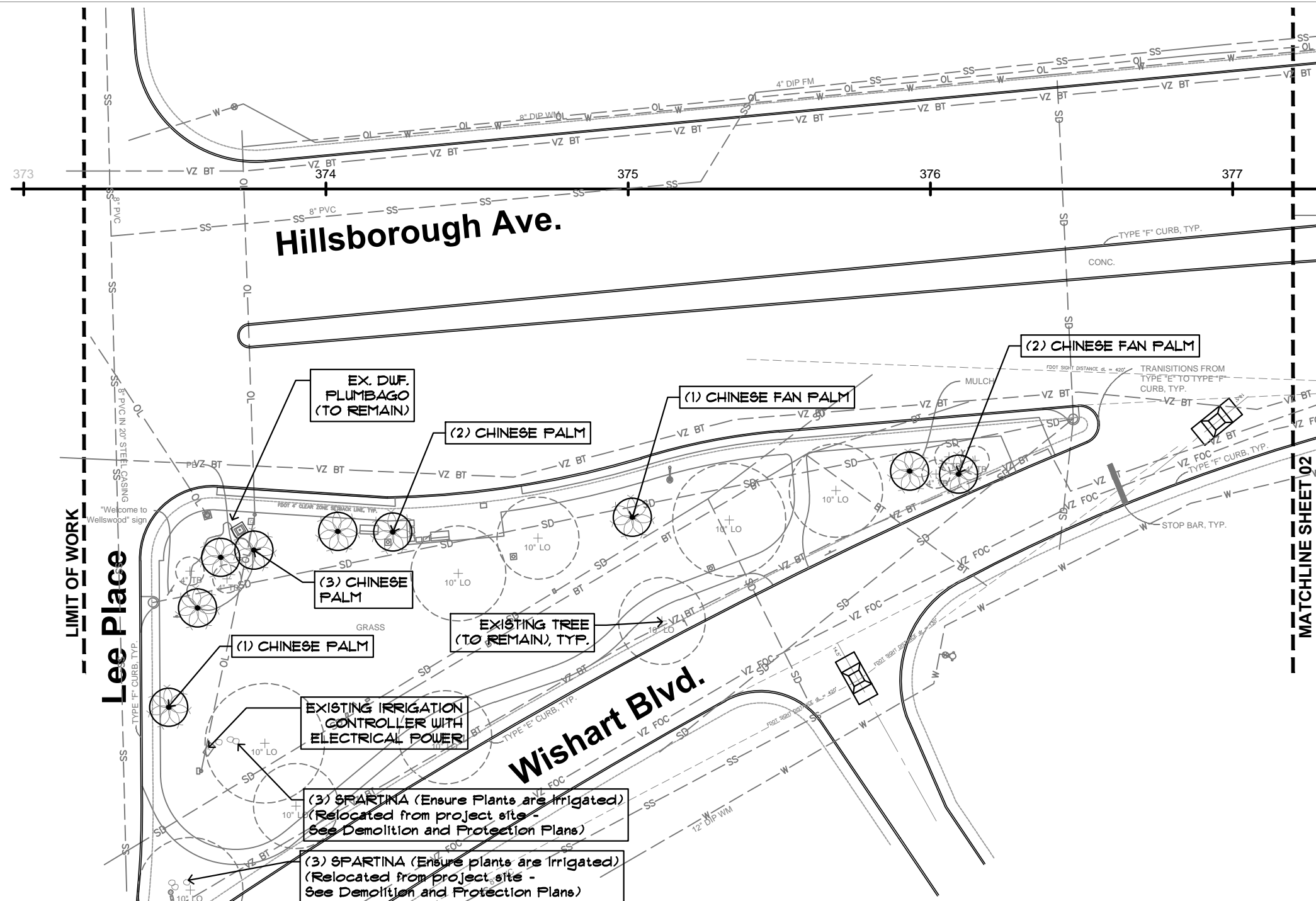
Date

SUBMITTAL
DATE: DECEMBER 17, 2015
DRAWN BY: CRN
REVIEWED BY: CRN 12/5/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

DN-01

BASE PLAN NOTES:

- CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING, BY CALLING 811.
- NO OFFICIAL SURVEY WAS PERFORMED FOR THIS PROJECT. NICHOLS LANDSCAPE ARCHITECTURE, INC (NLA) DID NOT FIND ANY AS-BUILTS OR CURRENT PLANS FOR THIS PROJECT AREA.
- THE BASE SHEETS WERE CREATED USING DIFFERENT SOURCES: F.D.O.T. WIDENING PLANS FOR HILLSBOROUGH AVENUE (FROM LEE PLACE TO FLORIDA AVENUE) - NOT DATED (PROJECT # 10150-6547), FLORIDA AVENUE TO N. CENTRAL AVENUE, DATED 03/1994 (PROJECT #10150-3543), A GOOGLE EARTH AERIAL, AND OUR OWN FIELD MEASUREMENTS.
- FOR THE UTILITIES SHOWN, ONLY THOSE UTILITIES THAT COULD BE IMPACTED BY THE PROPOSED PLANTING HAVE BEEN SHOWN. THE UTILITY INFORMATION SHOWN IS BASED UPON THE UTILITIES THAT HAVE PROVIDED INFORMATION AS REQUESTED BY NLA.
- NLA HAS ADDED INFORMATION AND MADE ADJUSTMENTS BASED UPON FIELD OBSERVATIONS. SOME UTILITIES MAY ACTUALLY BE ABANDONED, SHOWN IN THE WRONG LOCATION OR NOT SHOWN AT ALL.
- NICHOLS LANDSCAPE ARCHITECTURE, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF THIS BASE PLAN. THESE BASE PLANS ARE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AS NECESSARY AND MAKE ADJUSTMENTS AS REQUIRED.

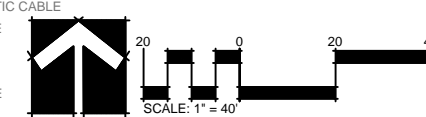


EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
CL	=	CHERRY LAUREL
PD	=	PODOCARPUS
UT	=	UMBRELLA TREE
CB	=	CORAL BEAN
BT	=	BLACK STEMMED TUBEFLOWER
SH	=	SCHILLING'S HOLLY
BH	=	BURFORD OR CORNUTA HOLLY
PI	=	PURPLE IRIS
MT	=	MOTHER-IN LAW'S TONGUE
GI	=	GINGER PLANT
SP	=	SPARTINA
PJ	=	PARSONS JUNIPER
PL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		SD - STORMWATER LINE
	TRAFFIC CAMERA		SS - SANITARY SEWER LINE
	CROSSWALK SIGNAL		W - WATER LINE
	CABLE MARKER		OL - OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VZ BT - VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VZ FOC - VERIZON FIBER OPTIC CABLE
	STREET SIGN		BT - BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV - CATV LINE
	NEWSPAPER BOX		GM - GAS LINE
			SD - FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



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CLIENT: **CITY OF TAMPA**
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TAMPA, FL 33607

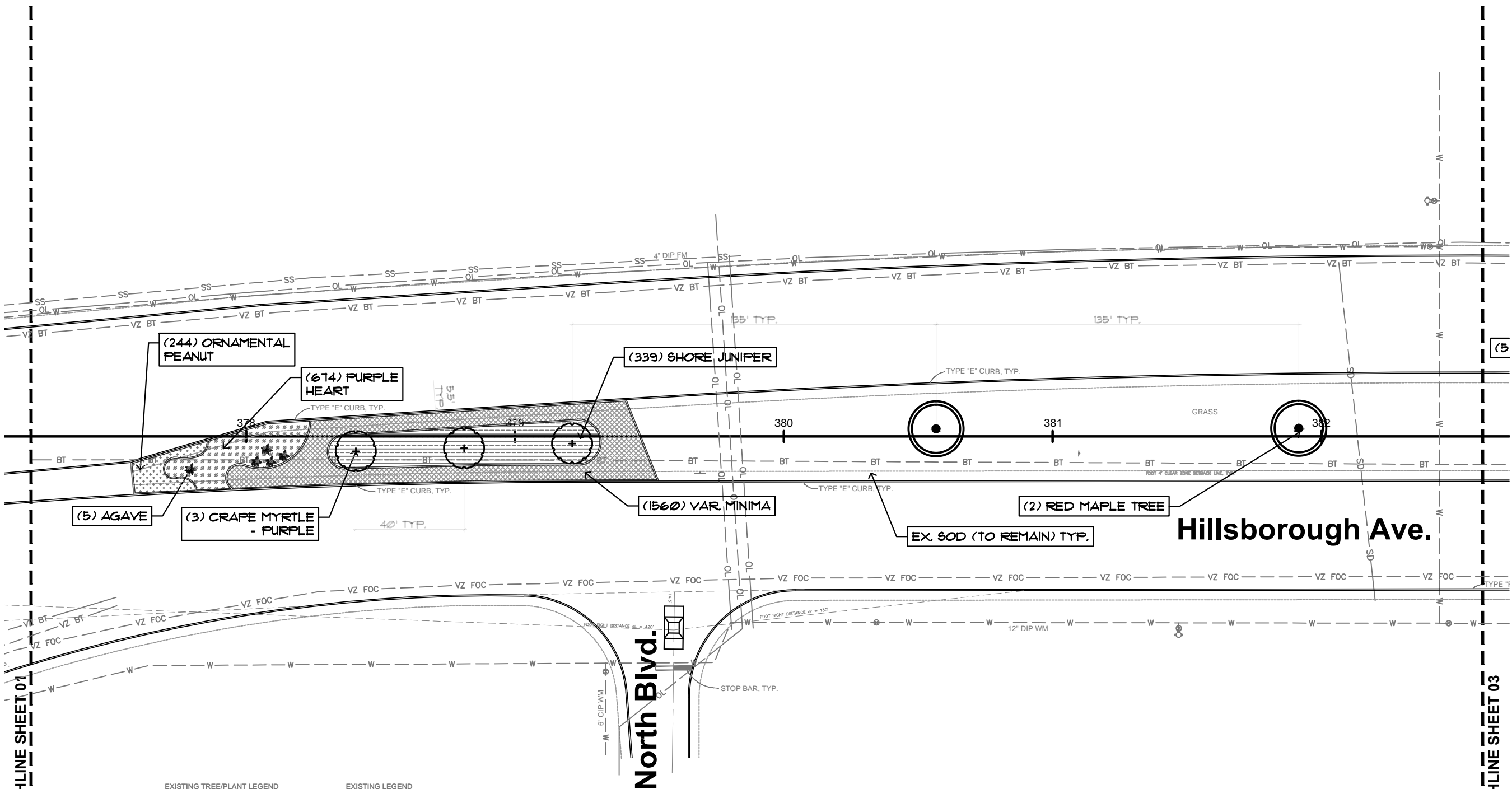
PROJECT NAME: **HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001**

SHEET TITLE: **LANDSCAPE WITH HARDSCAPE
CONSTRUCTION PLAN**

Cellia R. Nichols, RLA, ALSA
LA0001518

Date: _____

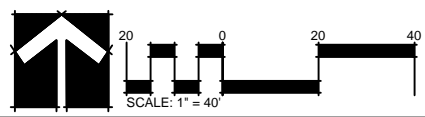
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DRAWN BY:	CRN/ MG
REVIEWED BY:	CRN 12/4/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	L-01



MATCHLINE SHEET 01

MATCHLINE SHEET 03

EXISTING TREE/PLANT LEGEND		EXISTING LEGEND	
LO	LIVE OAK	□	ELECTRICAL BOX
CE	CHINESE ELM	□	IRRIGATION VALVE BOX
DE	DRAKE ELM	□	DECORATIVE LIGHT POLE
BC	BALD CYPRESS	□	DECORATIVE LIGHT POLE ON PAD
SP	SABAL PALM	□	COBRA STREET LIGHT - BLACK
BC	BALD CYPRESS	□	COBRA STREET LIGHT - BLACK ON PAD
TL	TREE LIGUSTRUM	□	COBRA STREET LIGHT - SILVER
CM	CRAPE MYRTLE	□	POWER POLE
SP	SABAL PALM	□	POWER METER ON POLE
PY	PYGMY DATE PALM	□	POWER METER ON CONC. POLE
HB	HIBISCUS	□	TELEPHONE BOX
WJ	WAX JASMINE	□	TRAFFIC CONTROL BOX
CL	CHERRY LAUREL	□	TRAFFIC CAMERA
PD	PODOCARPUS	□	CROSSWALK SIGNAL
UT	UMBRELLA TREE	□	CABLE MARKER
CB	CORAL BEAN	□	TRAFFIC SIGNS
BT	BLACK STEMMED TUBEFLOWER	□	HISTORIC SIGN
SH	SCHILLINGS HOLLY	□	STREET SIGN
BH	BURFORD OR CORNUTA HOLLY	□	DIRECTIONAL SIGNS
PI	PURPLE IRIS	□	NEWSPAPER BOX
MT	MOTHER-IN-LAW'S TONGUE	□	
GI	GINGER PLANT	□	
SB	SPARTINA	□	
PJ	PARSONS JUNIPER	□	
EL	PLUMBAGO	□	
LI	LIRIOPE	□	
PH	PURPLE HEART	□	
LA	LANTANA	□	
OP	ORNAMENTAL PEANUT	□	
		□	IRRIGATION CONTROL BOX
		□	WATER METER
		□	FIRE HYDRANT
		□	GATE VALVE
		□	MONITORING WELL
		□	MANHOLE
		□	CURB INLET
		□	CURB INLET #2
		□	FENCE
		□	STORMWATER LINE
		□	SANITARY SEWER LINE
		□	WATER LINE
		□	OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
		□	VERIZON BURIED TELEPHONE
		□	VERIZON FIBER OPTIC CABLE
		□	BURIED TELEPHONE
		□	CATV LINE
		□	GAS LINE
		□	FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB



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Celia R. Nichols, RLA, ALSA
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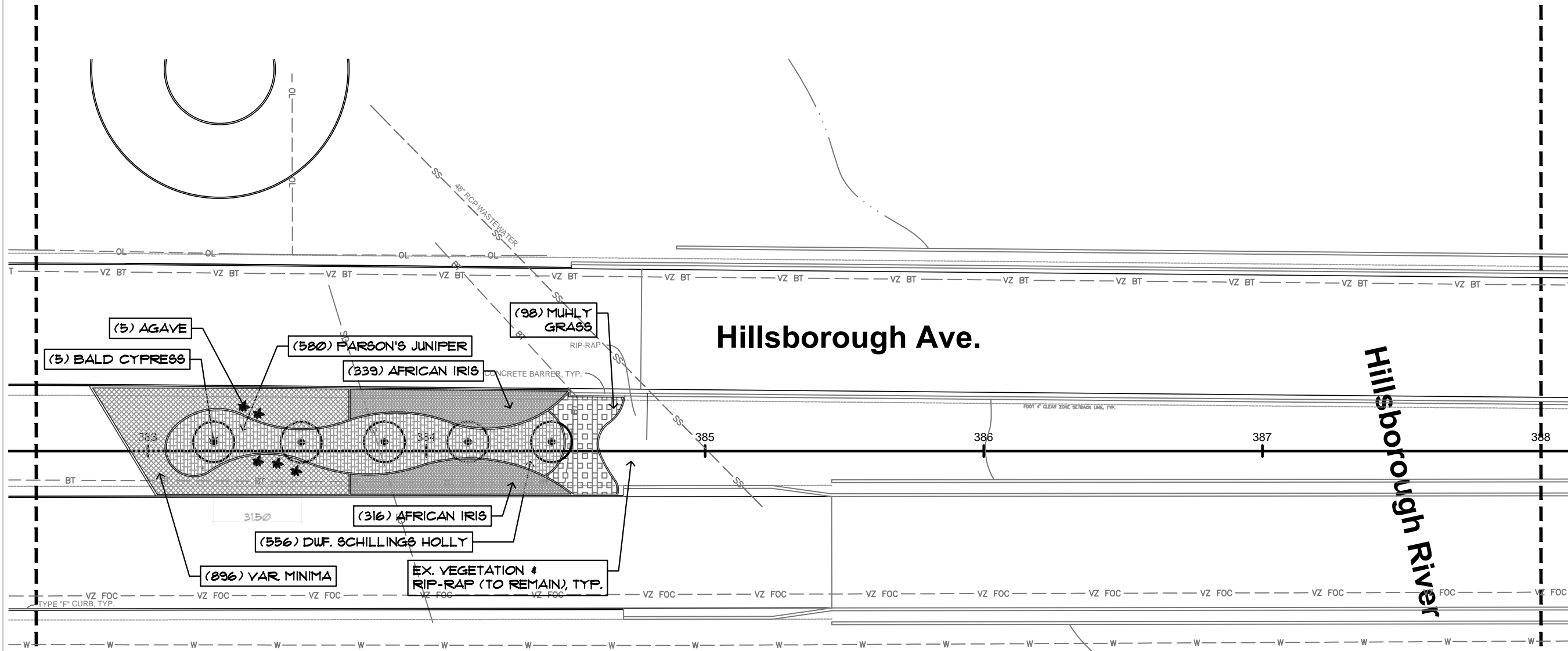
Date

SUBMITTAL DATE: DECEMBER 17, 2015
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SHEET NUMBER

L-02

MATCHLINE SHEET 02

MATCHLINE SHEET 04



EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	GRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
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PJ	=	PARSONS JUNIPER
EL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		STORMWATER LINE
	TRAFFIC CAMERA		SANITARY SEWER LINE
	CROSSWALK SIGNAL		WATER LINE
	CABLE MARKER		OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VERIZON FIBER OPTIC CABLE
	STREET SIGN		BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV LINE
	NEWSPAPER BOX		GAS LINE
			FDOT 4' CLEARZONE <small>SETBACK FROM FACE OF CURB</small>



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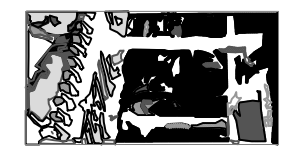
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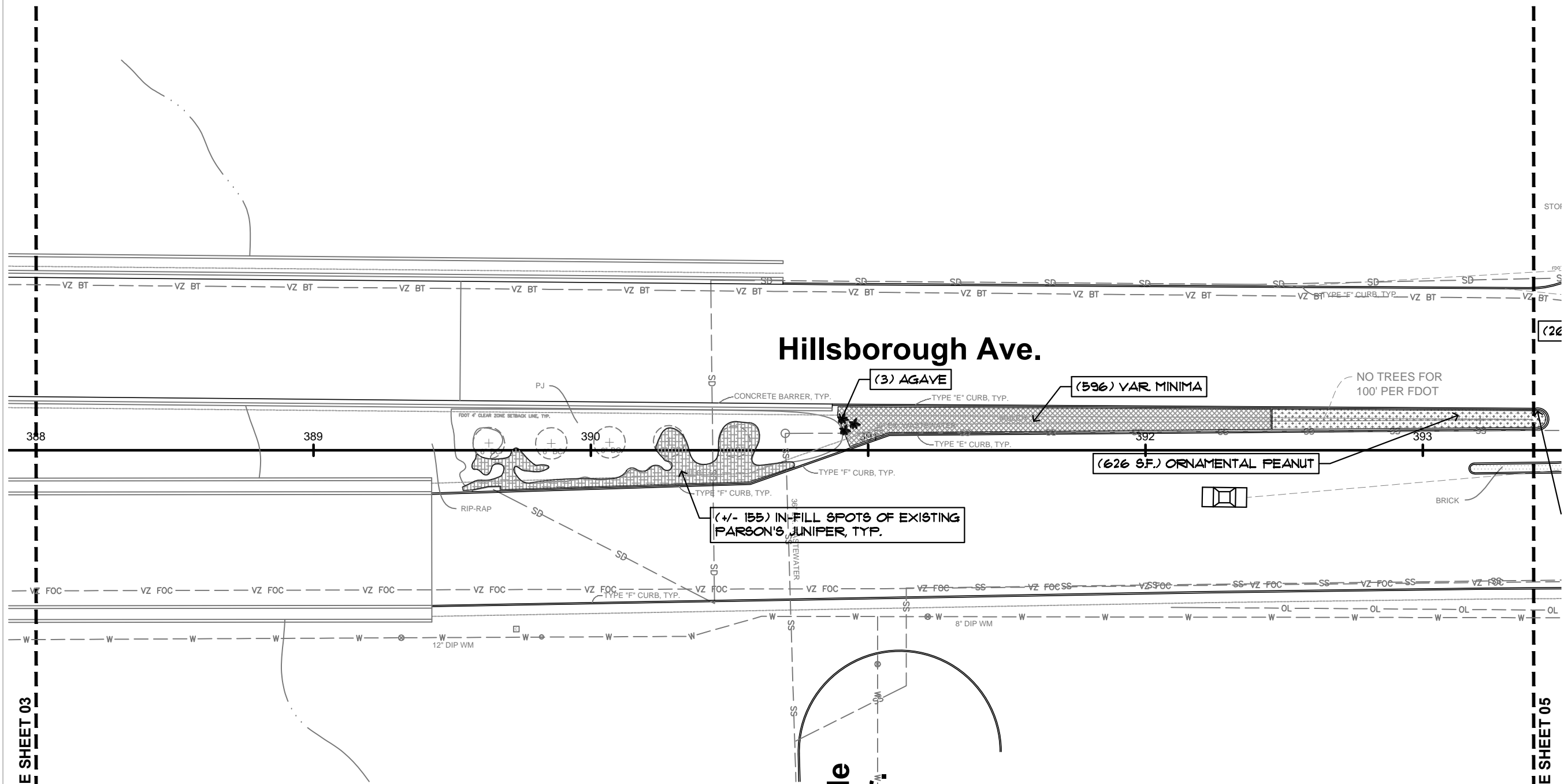
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L-03

MATCHLINE SHEET 03

MATCHLINE SHEET 05



Hillsborough Ave.

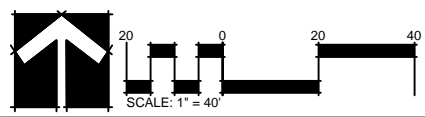
Riverside Park Dr.

EXISTING TREE/PLANT LEGEND

- LO = LIVE OAK
- CE = CHINESE ELM
- DE = DRAKE ELM
- BC = BALD CYPRESS
- SP = SABAL PALM
- BC = BALD CYPRESS
- TL = TREE LIGUSTRUM
- CM = GRAPE MYRTLE
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- PY = PYGMY DATE PALM
- HB = HIBISCUS
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- SB = SPARTINA
- PJ = PARSON'S JUNIPER
- EL = PLUMBAGO
- LI = LIRIOPE
- PH = PURPLE HEART
- LA = LANTANA
- OP = ORNAMENTAL PEANUT

EXISTING LEGEND

- | | | | |
|--|-----------------------------------|--|--|
| | ELECTRICAL BOX | | IRRIGATION VALVE BOX |
| | DECORATIVE LIGHT POLE | | IRRIGATION CONTROL BOX |
| | DECORATIVE LIGHT POLE ON PAD | | WATER METER |
| | COBRA STREET LIGHT - BLACK | | FIRE HYDRANT |
| | COBRA STREET LIGHT - BLACK ON PAD | | GATE VALVE |
| | COBRA STREET LIGHT - SILVER | | MONITORING WELL |
| | POWER POLE | | MANHOLE |
| | POWER METER ON POLE | | CURB INLET |
| | POWER METER ON CONC. POLE | | CURB INLET #2 |
| | TELEPHONE BOX | | FENCE |
| | TRAFFIC CONTROL BOX | | SD - STORMWATER LINE |
| | TRAFFIC CAMERA | | SS - SANITARY SEWER LINE |
| | CROSSWALK SIGNAL | | W - WATER LINE |
| | CABLE MARKER | | OL - OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE) |
| | TRAFFIC SIGNS | | VZ BT - VERIZON BURIED TELEPHONE |
| | HISTORIC SIGN | | VZ FOC - VERIZON FIBER OPTIC CABLE |
| | STREET SIGN | | BT - BURIED TELEPHONE |
| | DIRECTIONAL SIGNS | | CATV - CATV LINE |
| | NEWSPAPER BOX | | GM - GAS LINE |
| | | | SD - FDOT 4' CLEARZONE
<small>SETBACK FROM FACE OF CURB</small> |



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813.298.8880 c.
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LC2600399



CITY OF TAMPA
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

LANDSCAPE WITH HARDSCAPE CONSTRUCTION PLAN

Celia R. Nichols, RLA, ALSA
LA0001518

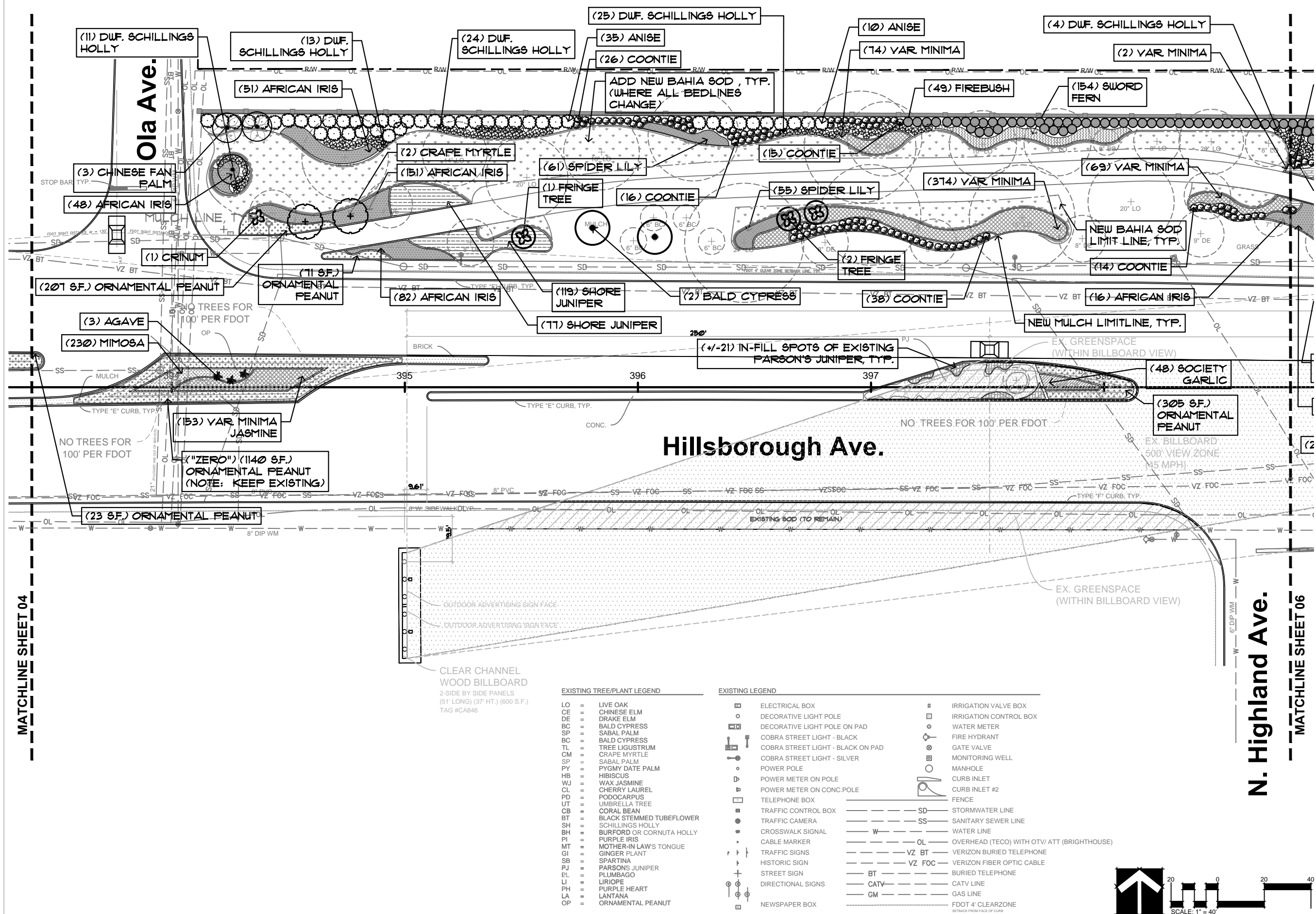
Date

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 12/4/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

L-04

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MATCHLINE SHEET 04



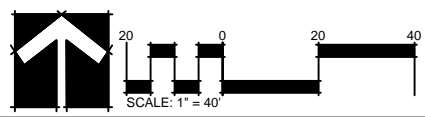
EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
CL	=	CHERRY LAUREL
PD	=	PODOCARPUS
UT	=	UMBRELLA TREE
CB	=	CORAL BEAN
BT	=	BLACK STEMMED TUBEFLOWER
SH	=	SCHILLINGS HOLLY
BH	=	BURFORD OR CORNUTA HOLLY
PI	=	PURPLE IRIS
MT	=	MOTHER-IN LAWS TONGUE
GI	=	GINGER PLANT
SB	=	SPARTINA
PJ	=	PARSONS JUNIPER
EL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		SD STORMWATER LINE
	TRAFFIC CAMERA		SS SANITARY SEWER LINE
	CROSSWALK SIGNAL		W WATER LINE
	CABLE MARKER		OL OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VZ BT VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VZ FOC VERIZON FIBER OPTIC CABLE
	STREET SIGN		BT BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV CATV LINE
	NEWSPAPER BOX		GM GAS LINE
			FDOT 4' CLEARZONE <small>SETBACK FROM FACE OF CURB</small>

CLEAR CHANNEL WOOD BILLBOARD
2-SIDE BY SIDE PANELS
(51' LONG) (37' HT.) (600 S.F.)
TAG #CA846



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CITY OF TAMPA
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
**LANDSCAPE WITH HARDSCAPE
CONSTRUCTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

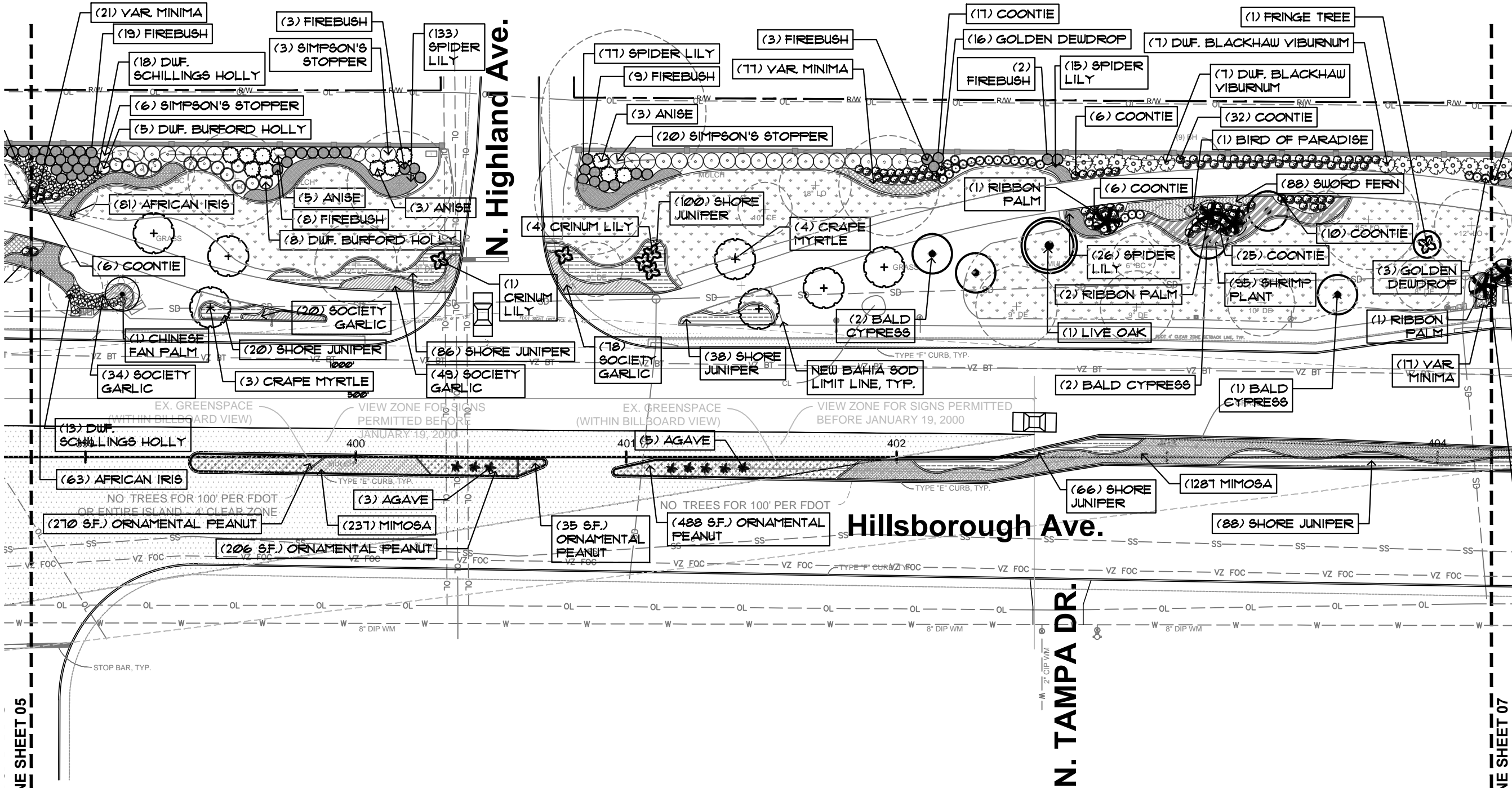
Date

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
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NLA JOB NO: COTH14-1.01
SHEET NUMBER

L-05

100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

MATCHLINE SHEET 05



EXISTING TREE/PLANT LEGEND

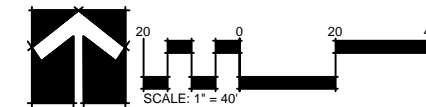
LO	LIVE OAK
CE	CHINESE ELM
DE	DRAKE ELM
BC	BALD CYPRESS
SP	SABAL PALM
BC	BALD CYPRESS
TL	TREE LIGUSTRUM
CM	CRAPE MYRTLE
SP	SABAL PALM
PY	PYGMY DATE PALM
HB	HIBISCUS
WJ	WAX JASMINE
CL	CHERRY LAUREL
PD	PODOCARPUS
UT	UMBRELLA TREE
CB	CORAL BEAN
BT	BLACK STEMMED TUBEFLOWER
SH	SCHILLINGS HOLLY
BH	BURFORD OR CORNUTA HOLLY
PI	PURPLE IRIS
MT	MOTHER-IN-LAW'S TONGUE
GI	GINGER PLANT
SB	SPARTINA
PJ	PARSONS JUNIPER
EL	PLUMBAGO
LI	LIRIOPE
PH	PURPLE HEART
LA	LANTANA
OP	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		SD STORMWATER LINE
	TRAFFIC CAMERA		SS SANITARY SEWER LINE
	CROSSWALK SIGNAL		W WATER LINE
	CABLE MARKER		OL OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VZ BT VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VZ FOC VERIZON FIBER OPTIC CABLE
	STREET SIGN		BT BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV CATV LINE
	NEWSPAPER BOX		GM GAS LINE
			FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB

100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

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LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

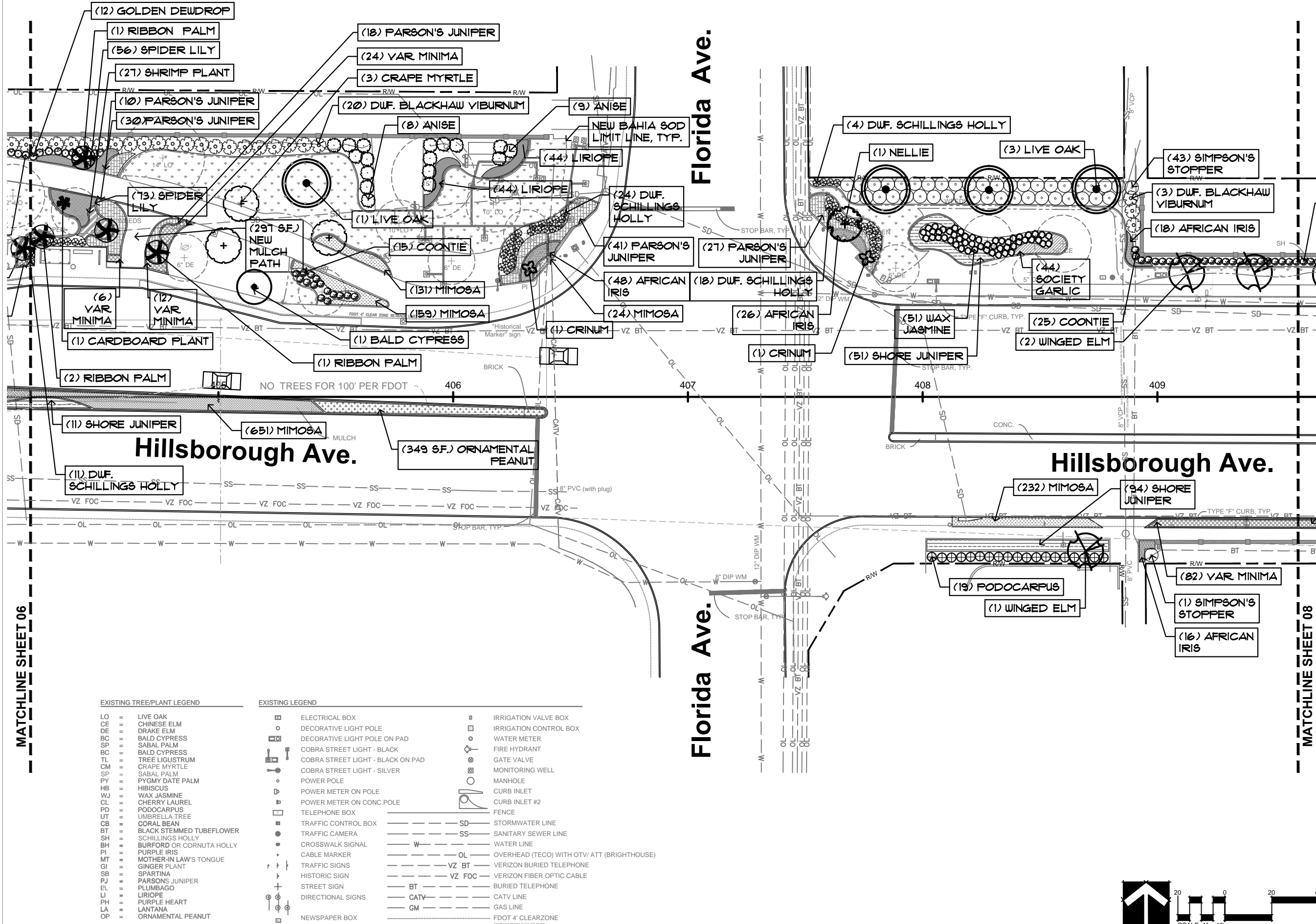
SHEET TITLE:
**LANDSCAPE WITH HARDSCAPE
CONSTRUCTION PLAN**

Client: Cella R. Nichols, RLA, ALSA
LA0001518

Date

SUBMITTAL DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN/ MG
REVIEWED BY:	CRN 12/4/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	L-06

MATCHLINE SHEET 06



EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
CL	=	CHERRY LAUREL
PD	=	PODOCARPUS
UT	=	UMBRELLA TREE
CB	=	CORAL BEAN
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SH	=	SCHILLINGS HOLLY
BH	=	BURFORD OR CORNUTA HOLLY
PI	=	PURPLE IRIS
MT	=	MOTHER-IN-LAW'S TONGUE
GI	=	GINGER PLANT
SB	=	SPARTINA
PJ	=	PARSON'S JUNIPER
EL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	=	ELECTRICAL BOX
	=	DECORATIVE LIGHT POLE
	=	DECORATIVE LIGHT POLE ON PAD
	=	COBRA STREET LIGHT - BLACK
	=	COBRA STREET LIGHT - BLACK ON PAD
	=	COBRA STREET LIGHT - SILVER
	=	POWER POLE
	=	POWER METER ON POLE
	=	POWER METER ON CONC. POLE
	=	TELEPHONE BOX
	=	TRAFFIC CONTROL BOX
	=	TRAFFIC CAMERA
	=	CROSSWALK SIGNAL
	=	CABLE MARKER
	=	TRAFFIC SIGNS
	=	HISTORIC SIGN
	=	STREET SIGN
	=	DIRECTIONAL SIGNS
	=	NEWSPAPER BOX
	=	IRRIGATION VALVE BOX
	=	IRRIGATION CONTROL BOX
	=	WATER METER
	=	FIRE HYDRANT
	=	GATE VALVE
	=	MONITORING WELL
	=	MANHOLE
	=	CURB INLET
	=	CURB INLET #2
	=	FENCE
	=	SD STORMWATER LINE
	=	SS SANITARY SEWER LINE
	=	W WATER LINE
	=	OL OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	=	VZ BT VERIZON BURIED TELEPHONE
	=	VZ FOC VERIZON FIBER OPTIC CABLE
	=	BT BURIED TELEPHONE
	=	CATV CATV LINE
	=	GM GAS LINE
	=	FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB

Florida Ave.

Florida Ave.

Hillsborough Ave.

Hillsborough Ave.

MATCHLINE SHEET 08

CITY OF TAMPA
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
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CONSTRUCTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date

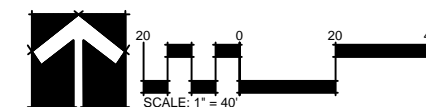
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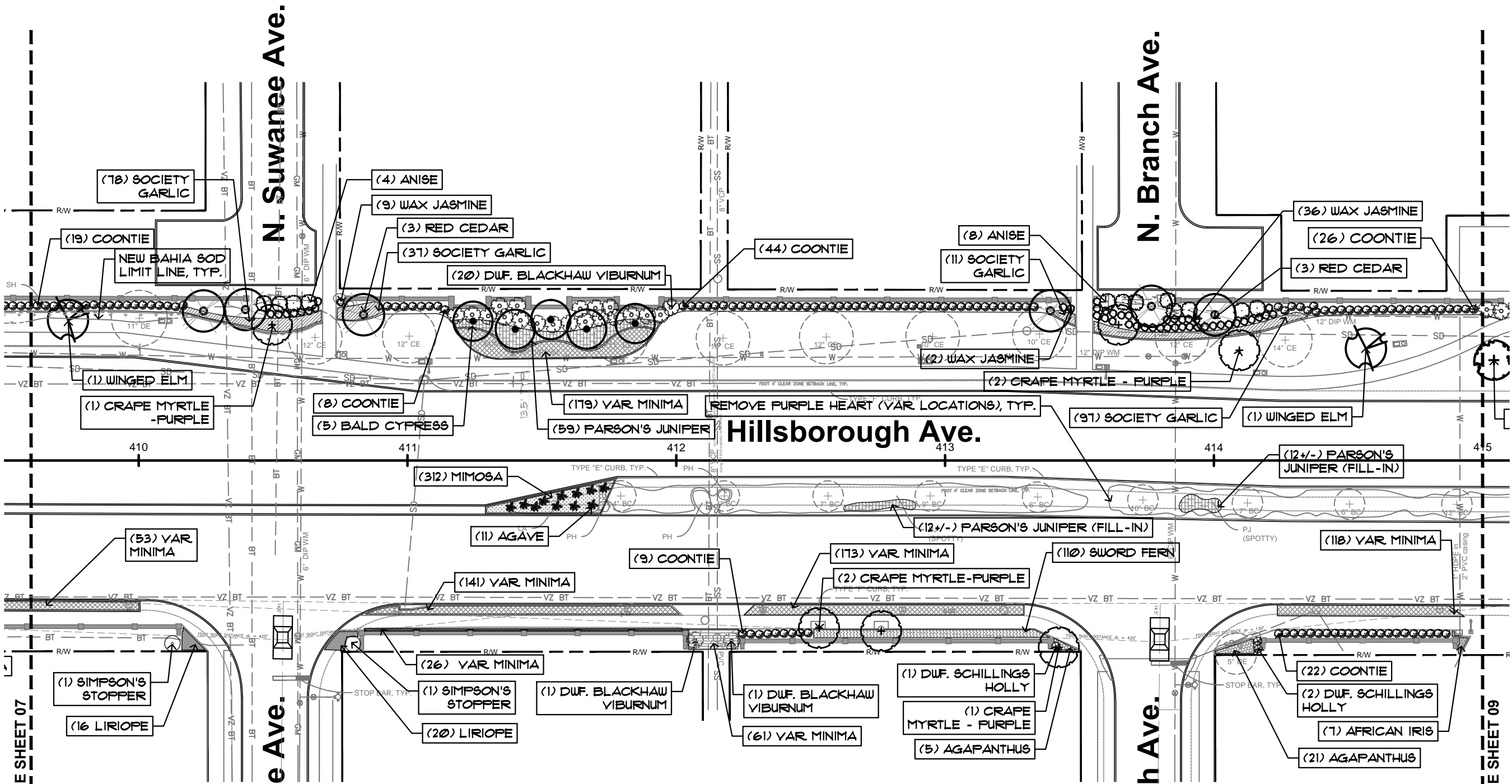


REVISIONS:
NO. DATE DESCRIPTION

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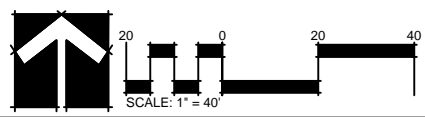
EXISTING TREE/PLANT LEGEND

- LO = LIVE OAK
- CE = CHINESE ELM
- DE = DRAKE ELM
- BC = BALD CYPRESS
- SP = SABAL PALM
- BC = BALD CYPRESS
- TL = TREE LIGUSTRUM
- CM = CRAPE MYRTLE
- SP = SABAL PALM
- PY = PYGMY DATE PALM
- HB = HIBISCUS
- WJ = WAX JASMINE
- CL = CHERRY LAUREL
- PD = PODOCARPUS
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- CB = CORAL BEAN
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- BH = BURFORD OR CORNUTA HOLLY
- PI = PURPLE IRIS
- MT = MOTHER-IN LAW'S TONGUE
- GI = GINGER PLANT
- SB = SPARTINA
- PJ = PARSONS JUNIPER
- EL = PLUMBAGO
- LI = LIRIOPE
- PH = PURPLE HEART
- LA = LANTANA
- OP = ORNAMENTAL PEANUT

EXISTING LEGEND

- ELECTRICAL BOX
- DECORATIVE LIGHT POLE
- DECORATIVE LIGHT POLE ON PAD
- COBRA STREET LIGHT - BLACK
- COBRA STREET LIGHT - BLACK ON PAD
- COBRA STREET LIGHT - SILVER
- POWER POLE
- POWER METER ON POLE
- POWER METER ON CONC. POLE
- TELEPHONE BOX
- TRAFFIC CONTROL BOX
- TRAFFIC CAMERA
- CROSSWALK SIGNAL
- CABLE MARKER
- TRAFFIC SIGNS
- HISTORIC SIGN
- STREET SIGN
- DIRECTIONAL SIGNS
- NEWSPAPER BOX
- IRRIGATION VALVE BOX
- IRRIGATION CONTROL BOX
- WATER METER
- FIRE HYDRANT
- GATE VALVE
- MONITORING WELL
- MANHOLE
- CURB INLET
- CURB INLET #2
- FENCE
- SD = STORMWATER LINE
- SS = SANITARY SEWER LINE
- W = WATER LINE
- OL = OVERHEAD (TECO) WITH OTV/ ATT (BRIGHHOUSE)
- VZ BT = VERIZON BURIED TELEPHONE
- VZ FOC = VERIZON FIBER OPTIC CABLE
- BT = BURIED TELEPHONE
- CATV = CATV LINE
- GM = GAS LINE
- FDOT 4' CLEARZONE

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CITY OF TAMPA
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GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
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CONSTRUCTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date

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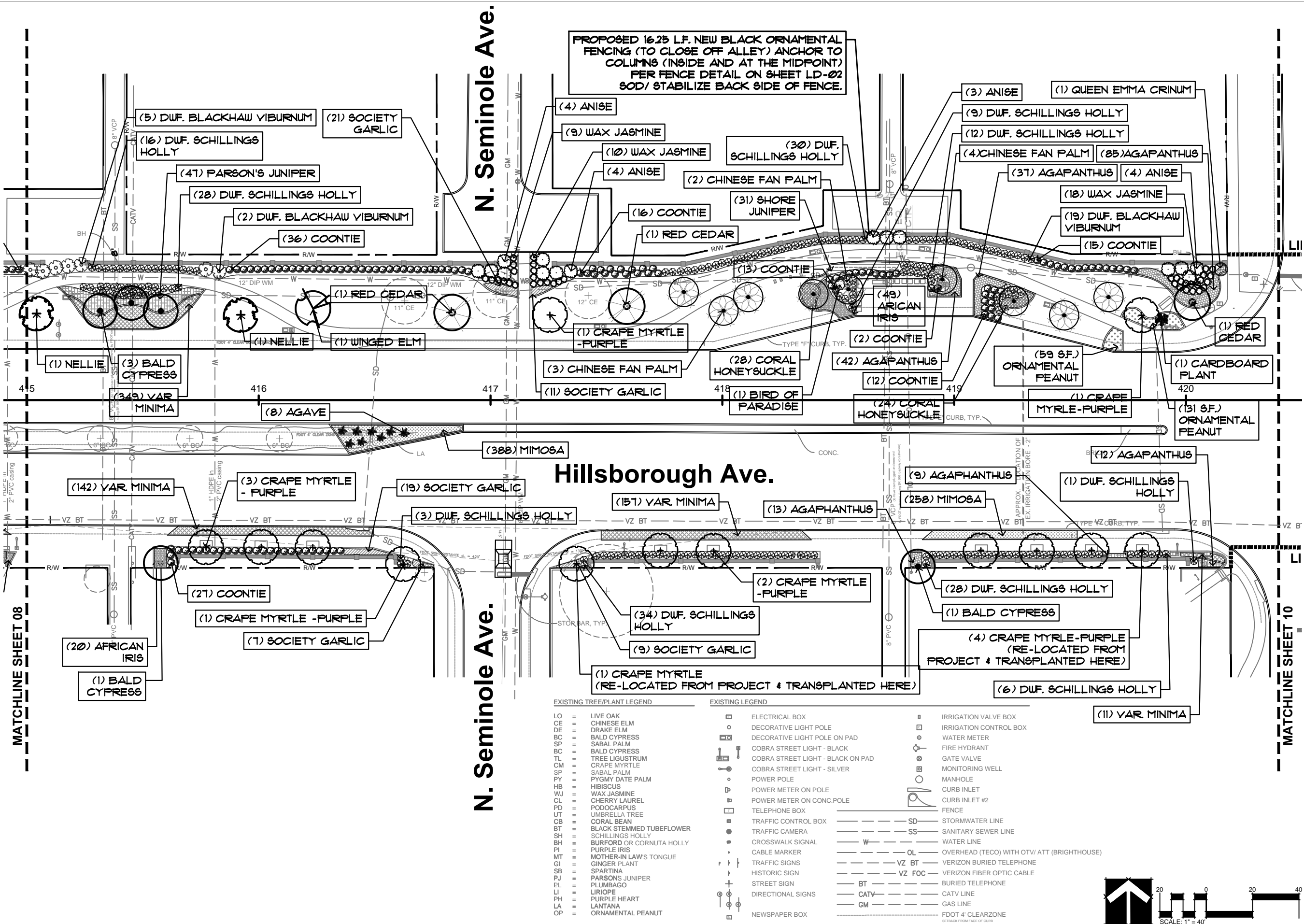
DRAWN BY: CRN/ MG

REVIEWED BY: CRN 12/4/2015

NLA JOB NO: COTH14-1.01

SHEET NUMBER

L-08



MATCHLINE SHEET 08

MATCHLINE SHEET 10

N. Seminole Ave.

Hillsborough Ave.

N. Seminole Ave.

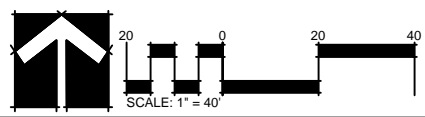
EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
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EL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

□	=	ELECTRICAL BOX
□	=	DECORATIVE LIGHT POLE
□	=	DECORATIVE LIGHT POLE ON PAD
□	=	COBRA STREET LIGHT - BLACK
□	=	COBRA STREET LIGHT - BLACK ON PAD
□	=	COBRA STREET LIGHT - SILVER
□	=	POWER POLE
□	=	POWER METER ON POLE
□	=	POWER METER ON CONC. POLE
□	=	TELEPHONE BOX
□	=	TRAFFIC CONTROL BOX
□	=	TRAFFIC CAMERA
□	=	CROSSWALK SIGNAL
□	=	CABLE MARKER
□	=	TRAFFIC SIGNS
□	=	HISTORIC SIGN
□	=	STREET SIGN
□	=	DIRECTIONAL SIGNS
□	=	NEWSPAPER BOX

□	=	IRRIGATION VALVE BOX
□	=	IRRIGATION CONTROL BOX
○	=	WATER METER
○	=	FIRE HYDRANT
○	=	GATE VALVE
○	=	MONITORING WELL
○	=	MANHOLE
○	=	CURB INLET
○	=	CURB INLET #2
○	=	FENCE
—SD—	=	STORMWATER LINE
—SS—	=	SANITARY SEWER LINE
—W—	=	WATER LINE
—OL—	=	OVERHEAD (TECO) WITH OTV/ ATT (BRIGHHOUSE)
—VZ BT—	=	VERIZON BURIED TELEPHONE
—VZ FOC—	=	VERIZON FIBER OPTIC CABLE
—BT—	=	BURIED TELEPHONE
—CATV—	=	CATV LINE
—GM—	=	GAS LINE
—	=	FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



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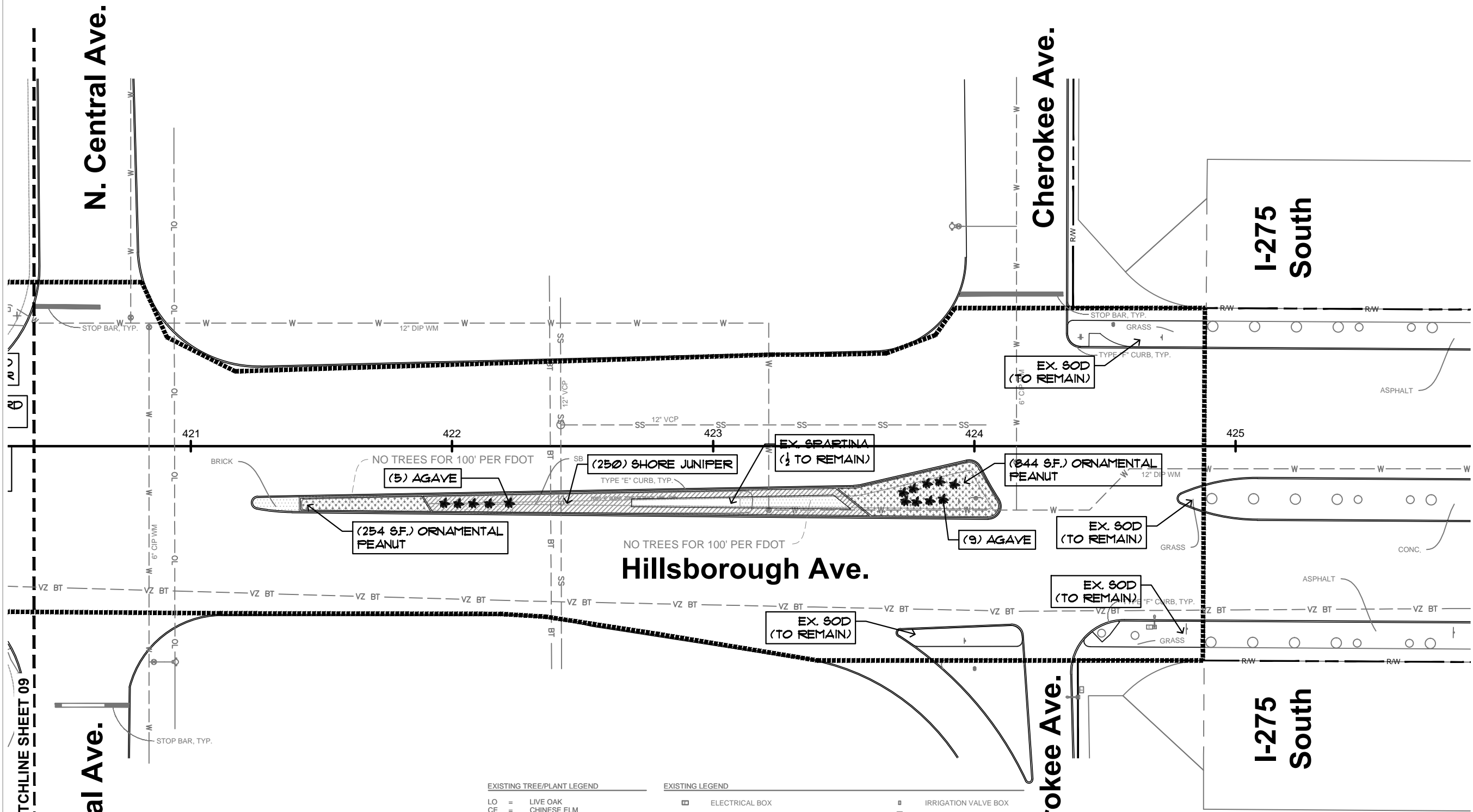
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LA0001518

Date

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MATCHLINE SHEET 09



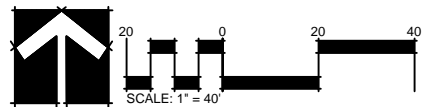
EXISTING TREE/PLANT LEGEND

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- DE = DRAKE ELM
- BC = BALD CYPRESS
- SP = SABAL PALM
- BC = BALD CYPRESS
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EXISTING LEGEND

- = ELECTRICAL BOX
- = DECORATIVE LIGHT POLE
- = DECORATIVE LIGHT POLE ON PAD
- ☐ = COBRA STREET LIGHT - BLACK
- ☐ = COBRA STREET LIGHT - BLACK ON PAD
- ☐ = COBRA STREET LIGHT - SILVER
- = POWER POLE
- ⊙ = POWER METER ON POLE
- ⊙ = POWER METER ON CONC. POLE
- = TELEPHONE BOX
- = TRAFFIC CONTROL BOX
- ☐ = TRAFFIC CAMERA
- ☐ = CROSSWALK SIGNAL
- = CABLE MARKER
- ☐ = TRAFFIC SIGNS
- ☐ = HISTORIC SIGN
- ☐ = STREET SIGN
- ☐ = DIRECTIONAL SIGNS
- ☐ = NEWSPAPER BOX
- = IRRIGATION VALVE BOX
- = IRRIGATION CONTROL BOX
- = WATER METER
- = FIRE HYDRANT
- = GATE VALVE
- = MONITORING WELL
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- = CURB INLET
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- = FENCE
- SD--- = STORMWATER LINE
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- VZ BT--- = VERIZON BURIED TELEPHONE
- VZ FOC--- = VERIZON FIBER OPTIC CABLE
- BT--- = BURIED TELEPHONE
- CATV--- = CATV LINE
- GM--- = GAS LINE
- FDOT 4' CLEARZONE--- = FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)

DISCLAIMER: NICHOLS LANDSCAPE ARCHITECTURE, INC. ASSUMES NO LIABILITY FOR ALTERATIONS AND/OR CONSTRUCTION THAT DOES NOT CONFORM TO THE DESIGN DEPICTED ON THIS PLAN. NO CHANGES MAY BE MADE TO THIS PLAN WITHOUT EXPRESS WRITTEN CONSENT OF NICHOLS LANDSCAPE ARCHITECTURE, INC. IF ANY DEVIATIONS ARE REQUIRED FOR ANY REASON, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT MANAGER IMMEDIATELY.



REVISIONS:

NO.	DATE	DESCRIPTION

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CLIENT: **CITY OF TAMPA**
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-00001

SHEET TITLE: **LANDSCAPE WITH HARDSCAPE CONSTRUCTION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

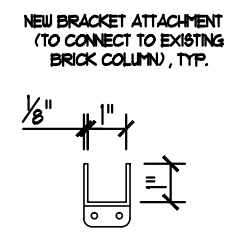
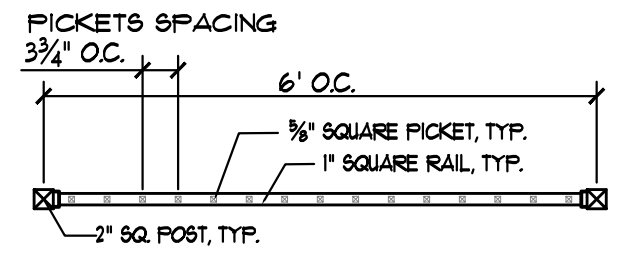
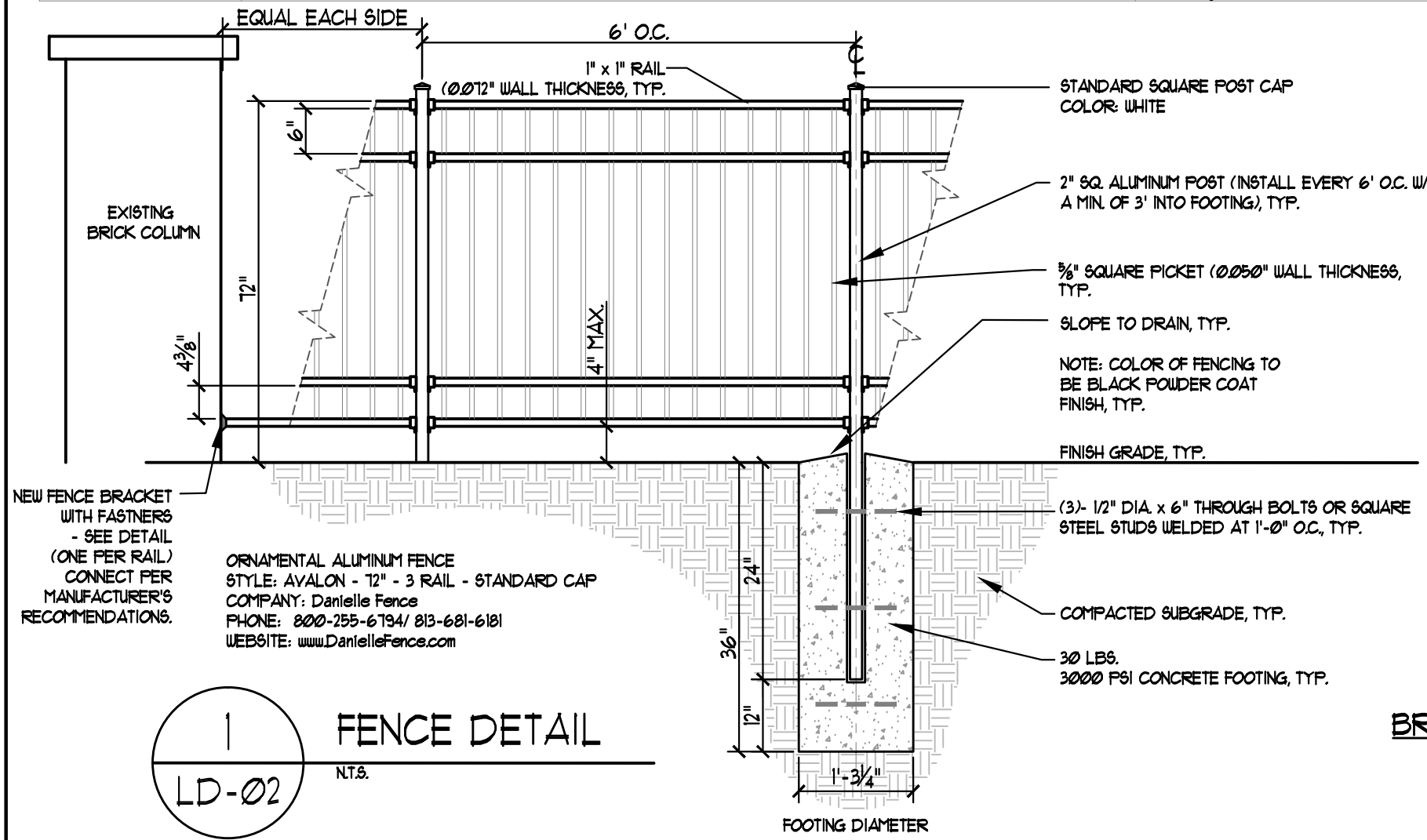
Date

SUBMITTAL DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN/ MG
REVIEWED BY:	CRN 12/4/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	

L-10

TECHNICAL MAINTENANCE PLAN

OPERATION	90 DAY MAINTENANCE WEEKLY CYCLE	CITY OF TAMPA MAINTENANCE COMMITMENT ON YEARLY CYCLE
MONTHS	1 2 3 4 5 6 7 8 9 10 11 12	JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC
WATERING DAYS PER WEEK	7 7 7 7 4 4 4 4 2 2 2 2	X X X X X X X X X X X X
	Watering by truck shall be performed each week of the 90 day maintenance period at the frequency indicated (see chart for Water Application Rates.) Saturate tree well completely.	City shall water once a week or as needed after the 90 day maintenance period (during drought periods) using City watering truck.
WEEDING/ LITTER PICKUP CYCLE PER 30 DAYS	X X X Contractor shall weed and pick up litter in all planting beds once in each four week period before the end of the 90 maintenance period.	Weeding every 14 days as indicated using an approved herbicide such as "Round Up" or equal applied at the rate of 1 1/2 oz. per gallon and applied by a licensed applicator or under the supervision of a licensed applicator. Litter pick up performed prior to application of herbicide.
PRUNING	As needed to mechanically removed damaged branches. Contractor shall maintain State of Florida #1 form to attain final acceptance.	Pruning shall be accomplished using chain saws, hand saws, and/or lopping shears. Trees shall retain a minimum clear trunk of 8' ht. Mature tree height overhanging travel lanes shall be maintained at 14.5' cir.
FERTILIZING	Palms, Trees, shrubs, groundcovers & sod shall be fertilized when planted per F.D.O.T. & C.O.T. Specs. Contractor to provide fertilizer date to F.D.O.T. & the City upon project acceptance.	Trees, shrubs and groundcovers to be fertilized annually per Specifications.
MOWING	Per Current City Standards and FDOT Specifications	Not applicable- PER F.D.O.T.
EDGING	Per Current City Standards and FDOT Specifications	Not applicable- PER F.D.O.T.
MULCHING	Mulch shall be applied immediately after planting of trees, shrubs & groundcovers. See Landscape Plans & Master Plant List for mulch type & depth to be used. Qty. per Contractor.	Restore 3" layer of mulch once a year. See Notes for mulch types to be used. Keep mulch a min. of 6" away from trunks of all trees. No mulch for Ornamental Peanut Beds.



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CLIENT: **CITY OF TAMPA**
5940 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0000

SHEET TITLE: **LANDSCAPE MAINTENANCE PLAN & NOTES**

Celia R. Nichols, RLA, ALSA
LA0001518

Date: _____

SUBMITAL DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN
REVIEWED BY:	CRN 12/5/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	

LD-02

GENERAL LANDSCAPE NOTES

- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT SITE CONDITIONS AND QUANTITIES INDICATED ON THESE PLANS BEFORE PRICING WORK.
- PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN " GRADES AND STANDARDS FOR NURSERY TREES, SHRUBS, PLANTS AND PALMS ", 2015 EDITION DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS FOR NURSERY STOCK.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE CONDITION OF UNDERGROUND UTILITIES THAT EFFECT PLANTING PROCEDURES. IF ANY CONFLICTS OCCUR BETWEEN PROPOSED LOCATION OF TREES OR IRRIGATION ON THE DRAWINGS AND ANY EXISTING UNDERGROUND UTILITIES OR SUBSURFACE STRUCTURES, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE F.D.O.T. AND CITY'S REPRESENTATIVE. IF THE LANDSCAPE CONTRACTOR DAMAGES ANY STAKED OR IN PLACE UTILITIES BY HIS OWN NEGLIGENCE THEY SHALL BE REPAIRED AT THE LANDSCAPE CONTRACTOR'S EXPENSE.
- LANDSCAPE CONTRACTOR SHALL NOTIFY THE F.D.O.T. AND THE CITY'S REPRESENTATIVE OF ANY CONDITIONS THAT WOULD PREVENT THE HEALTHY GROWTH OF PLANT SPECIES CALLED FOR ON THE DRAWINGS. THIS NOTIFICATION MUST OCCUR PRIOR TO CONTRACT AWARD.
- IF ANY DISCREPANCIES OCCUR BETWEEN QUANTITIES CALLED FOR ON THE PLANT LIST AND THOSE INDICATED ON THE DRAWINGS, THE DRAWING SYMBOLS OR QUANTITY (IF GREATER) SHALL GOVERN.
- PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECTS, EGGS, OR LARVAE, AND SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS. THEY SHALL BE FREE FROM PHYSICAL DAMAGE OR ADVERSE CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.
- PLANTS MUST BE CONTAINER GROWN OR B&B AS INDICATED IN THE PLANT LIST, EXCEPT TRANSPLANTED MATERIAL, IF ANY.
- PLANTS SHALL CONFORM TO THE VARIETIES INDICATED IN THE PLANT LIST.
- SUBSTITUTION OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED BY F.D.O.T. AND THE CITY'S REPRESENTATIVE. IF PROOF IS SUBMITTED THAT ANY PLANT SPECIFIED IS NOT OBTAINABLE, A PROPOSAL WILL BE CONSIDERED FOR USE OF THE NEAREST EQUIVALENT SIZE OR VARIETY WITH CORRESPONDING ADJUSTMENT OF CONTRACT PRICES.
- PLANT MATERIAL LOCATIONS AND BED OUTLINES SHALL BE STAKED OR FLAGGED ON SITE BY THE LANDSCAPE CONTRACTOR AND SHALL BE ADJUSTED IF REQUIRED TO FIT ACTUAL AS-BUILT CONDITIONS ON SITE AND APPROVED BY THE F.D.O.T AND CITY'S REPRESENTATIVE PRIOR TO INSTALLATION.
- LANDSCAPE CONTRACTOR SHALL WARRANTY ALL PLANT MATERIALS TO BE IN THRIVING AND IN GOOD CONDITION FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE DATE PROVIDED BY F.D.O.T. AND THE CITY OF TAMPA.
- BACKFILL AROUND PLANT MATERIAL SHALL BE WATERED-IN BY HAND AND TAMPED IN, ENSURING WATER SATURATES UNDER AND AROUND THE ROOT BALL TO FILL SOIL VOIDS.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HOISTING EQUIPMENT NECESSARY FOR THE PLACEMENT OF PLANT MATERIAL. THE CONTRACTOR MUST FOLLOW THE APPROVED MOT PLAN FOR WORK ALONG THE TRAIL, SIDEWALK ETC. AT ALL TIMES.
- LANDSCAPE CONTRACTOR SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. ANY DISCREPANCY IN THE DRAWINGS, OBSTRUCTION ON THE SITE, OR PRIOR WORK DONE BY ANOTHER PARTY WHICH THE LANDSCAPE CONTRACTOR FEELS PRECLUDES ESTABLISHING PROPER DRAINAGE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF F.D.O.T. AND THE CITY'S REPRESENTATIVE. THE FINAL GRADE SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR.
- AFTER PLANT MATERIAL HAS BEEN INSTALLED AND APPROVED, PLANTING BEDS SHALL BE RAKED TO AN EVEN GRADE TO CONFORM TO PRE-MULCHING FINISH GRADES. PLANTING BEDS AND PLANT SAUCERS SHALL THEN BE UNIFORMLY COVERED WITH A MINIMUM 3 INCH LAYER OF MULCH AS SPECIFIED.
- PLANT MATERIAL BACKFILL MIXTURE SHALL BE THOROUGHLY MIXED AND DISTRIBUTED EVENLY THROUGHOUT THE PROPOSED PLANTING BED AREAS.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING AND GUYING ALL TREES PER F.D.O.T. STANDARDS AND STRAIGHTENING TREES DURING THE GUARANTEE PERIOD.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS BEFORE COMMENCING CONSTRUCTION.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN FULLY PLANT MATERIAL ON SITE DURING AND BEFORE PLANTING, UNTIL THE WORK IS ACCEPTED BY THE F.D.O.T AND THE CITY'S REPRESENTATIVE.
- PLANTS SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR TO BE HEALTHY PLANTS AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR 90 DAYS FROM FINAL INSPECTION AND ACCEPTANCE. TRANSPLANTED MATERIAL, IF ANY, IS EXCLUDED FROM THIS GUARANTEE.
- THE F.D.O.T. AND CITY'S REPRESENTATIVE HAVE THE RIGHT TO REJECT ANY AND ALL WORK WHICH IN HIS OPINION DOES NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS AT ANY STAGE OF THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF PREMISES AND REMOVAL OF DISCARDED AND SURPLUS MATERIALS AND RUBBISH.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING BAHIA SOD, MULCH/ LEAF BEDS, WEEDS, OR VEGETATION CURRENTLY PRESENT WHERE ANY NEW SOD OR NEW LANDSCAPE BEDS ARE PROPOSED. UPON REMOVAL OF THIS MATERIAL, THE CONTRACTOR SHALL PROVIDE A FINISH GRADE THAT IS SMOOTH AND CONSISTENT WITH THE ORIGINAL GRADES PROVIDED BY THE SITE CONTRACTOR, PRIOR TO THE INSTALLATION OF THE NEW PLANT MATERIALS. PLEASE REFER TO TREE REMOVAL AND PROTECTION PLAN.
- IN NEW PLANTED AREAS, GRADES SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR AT APPROXIMATELY 3 INCHES BELOW CURBS, SIDEWALKS, HARDSCAPE AMENITIES, MOWING STRIPS, AND OTHER ABUTMENTS TO ALLOW FOR 3" MULCH. MULCH FINISH GRADE TO BE 1" BELOW SIDEWALK OR PAVERS.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PLANTING AREAS WITH INSTALLATION OF IRRIGATION SYSTEM AND FENCING WORK. THE SCHEDULE SHALL BE AS DEFINED BY F.D.O.T. AND THE CITY AND CONSISTENT WITH THE REQUIREMENTS OF THE "H.L.R.M.O.A."
- ALL PLANT MATERIAL SHALL BE INSTALLED AND THEN FERTILIZER SHALL BE APPLIED PRIOR TO MULCHING. FERTILIZER SHALL BE APPLIED AS TOP DRESSING AS FOLLOWS. CONTRACTOR TO FOLLOW THE CURRENT RULES FOR FERTILIZING NEAR THE HILLSBOROUGH RIVER. THE FOLLOWING FERTILIZER PRODUCT, APPLICATION PERIOD AND RATES ARE DESIRED AND A GUIDELINE ONLY AND TO BE USED ONLY IF ACCEPTABLE PER THE CURRENT RULES: TREES AND SHRUBS: (OSMOCOTE 19-6-12 OR EQUAL) APPLY TO PLANTING SURFACE PER MANUFACTURERS SPECIFICATIONS AND RE-APPLY EVERY 4 MONTHS OR PER OWNER'S DIRECTION. 1/2 TABLESPOON PER 1 GALLON PLANT, 1-1/2 TABLESPOONS PER 3 GALLON, PLANT 2-1/2 TABLESPOONS PER 5 GALLON PLANT, ABOVE 5 GALLONS, USE 1/2 TABLESPOON PER EACH GALLON PALMS: (10-5-10 JOBE'S PALM FERTILIZER SPIKES OR EQUAL) APPLY SPIKES PER MANUFACTURER'S SPECIFICATIONS. SOD AREAS: (16-4-8 COMMERCIAL SLOW RELEASE FERTILIZER) 18 POUNDS PER 1,000 S.F. CONTRACTOR TO PROVIDE PROPOSED FERTILIZER PRODUCT MANUFACTURER SPECIFICATION SHEET FOR EACH TYPE OF FERTILIZER THAT IS PROPOSED. THIS INFORMATION SHALL BE PROVIDED TO THE CITY'S REPRESENTATIVE AND F.D.O.T. IN ADVANCE FOR APPROVAL. UPON SPREADING FERTILIZER IT SHALL BE WATERED-IN PER MANUFACTURER'S RECOMMENDATIONS.
- PENDING THE OUTCOME OF THE SOIL TEST RESULTS AND RECOMMENDATION OF A BACKFILL MIX BY THE INDEPENDENT SOIL TESTING LAB THE MIX SHALL BE SUBMITTED FOR F.D.O.T. AND THE CITY'S APPROVAL. IF OWNER & CONTRACTOR OPT NOT TO TEST THE SOIL OUR RECOMMENDATION IS AS FOLLOWS: THE PROPOSED SOIL BACKFILL MIX SHALL BE HILLARY "SANDY" LANDSCAPE MIX OR APPROVED EQUAL AND IS COMPRISED OF 40% PEAT, 40% WOOD PRODUCT, AND 20% COMPOST. APPLICATION RATE PER PLANT BASED ON 50% HILLARY "SANDY" LANDSCAPE MIX WITH 50% EXISTING SOIL.

PLANT SIZE	C.F. HILLARY LANDSCAPE MIX OR EQUAL
LINERS/8" POTS=	0.05 CF. PER PLANT
1 GALLON=	0.09 CF. PER PLANT
3 GALLON=	0.135 CF. PER PLANT
5 GALLON=	0.48 CF. PER PLANT
7 GALLON=	0.675 CF. PER PLANT
15 GALLON=	1.35 CF. PER PLANT
30 GALLON=	2.7 CF. PER PLANT
45 GALLON=	3.4 CF. PER PLANT
65 GALLON=	4.05 CF. PER PLANT
100 GALLON=	6.75 CF. PER PLANT
200 GALLON=	13.5 CF. PER PLANT

& FIELD GROWN PLANTS
- LANDSCAPE CONTRACTOR TO COORDINATE A TAGGING TRIP(S) WITH THE CITY'S LANDSCAPE ARCHITECT PRIOR TO PURCHASING ANY PLANT MATERIAL. THE PURPOSE OF THE TRIP WILL BE TO REVIEW AND LOCK-TAG THE APPROVED TREES AND PALMS FOR THIS JOB. FINAL APPROVAL SHALL BE ON-SITE AT TIME OF DELIVERY FOR ALL TREES, PALM, SHRUBS, GROUNDCOVER AND SOD BY THE F.D.O.T. AND THE CITY'S REPRESENTATIVE. CONTRACTOR TO NOTIFY THE CITY'S REPRESENTATIVE OF ALL DELIVERY DATES AT LEAST 72 HOURS IN ADVANCE FOR THE TREE TAGGING AND THE SITE DELIVERY DATE AND TIME.
- ALL TREES AND SHRUBS SHALL BE "HAND WATERED-IN" USING TEMPORARY HOSE BIBS OR A WATER TRUCK, DURING THE INSTALLATION PERIOD OR UNTIL THE IRRIGATION SYSTEM IS FULLY FUNCTIONAL. ALL TREES, PALMS, PLANTS AND SOD SHALL BE MAINTAINED UNTIL FINAL ACCEPTANCE BY F.D.O.T. AND THE CITY.
- CONTRACTOR TO CONDUCT SOIL PERCOLATION TESTS AS DESCRIBED IN THE GENERAL NOTES. CONTRACTOR TO PROVIDE TEST RESULTS TO THE F.D.O.T. AND THE CITY'S LANDSCAPE ARCHITECT PRIOR TO ACCEPTING CONTRACTORS' PROPOSED WATERING SCHEDULE. ADJUST SCHEDULE WITH THE F.D.O.T. AND THE CITY'S REPRESENTATIVE, PER CURRENT AND PROPOSED WEATHER/ RAIN CONDITIONS.
- ALL PLANTS AND TREES SHALL BE INSTALLED ACCORDING TO THE F.D.O.T. STANDARD INDEX 544 (INCLUDING RIBBON AND CHINESE FAN PALMS: THESE SHALL BE THE SAME AS "SABAL PALM INSTALLATION") AND THE MASTER PLANT LIST SPECIFICATIONS SHEET LD-01. ALL PLANTING BEDS AND TREES SHALL BE MULCHED TO 3" DEPTH. ENSURE THAT NO MULCH IS WITHIN 6" OF A PALM OR TREE TRUNK. ISOLATED TREES SHALL HAVE A 5' DIAMETER MULCH RING.
- PLANT MATERIAL SHALL NOT BE LOCATED WITHIN FDOT CLEAR ZONE SETBACKS OR SIGHT DISTANCE LINES. ANY MATERIAL IN CONFLICT SHALL BE ADJUSTED IF REQUIRED BY CONTRACTOR PRIOR TO INSTALLATION TO MEET CLEAR SIGHT DISTANCE REGULATIONS PER CURRENT FDOT STANDARDS (SEE FDOT DESIGN STANDARD. MANUAL INDEX #546 AND INDEX #700).
- TREES ALLOWED PER FDOT IN CLEAR ZONES, SHALL BE A MINIMUM OF A FLORIDA #1 TREE AND HAVE AN 8' CLEAR TRUNK AT TIME OF INSTALLATION.
- LANDSCAPE CONTRACTOR TO PROVIDE CERTIFIED PERSONNEL FOR ANY M.O.T FOR THIS PROJECT THE M.O.T SHALL BE MAINTAINED BY CERTIFIED PERSONNEL ON A DAILY BASIS. THE F.D.O.T. STANDARD INDICES SHALL BE FOLLOWED. SPECIFIC INDICES INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED ON SHEET G-01.
- ANY HERBICIDES USED, MUST BE SAFE FOR USE NEAR THE HILLSBOROUGH BAY AND MEET FEDERAL, STATE, AND LOCAL STANDARDS FOR APPLICATION.
- IF A NURSERY VISIT IS REQUIRED TO APPROVE PLANT MATERIAL FOR THIS JOB, THEN THE CONTRACTOR SHALL PROVIDE 4 WORKING DAYS NOTICE TO THE CITY'S LANDSCAPE ARCHITECT TO ATTEND.
- CONTRACTOR TO CALL THE F.D.O.T. AND THE CITY'S REPRESENTATIVE IN ADVANCE FOR THE FOLLOWING 3 INSPECTIONS: TREE AND BED LAYOUT, IRRIGATION LAYOUT AND A WALK THROUGH INSPECTION. CONTRACTOR TO PROVIDE A MINIMUM OF 72 HOURS NOTICE FOR THESE VISITS AND ANY OTHERS WHERE HE NEEDS INPUT FROM THE CITY'S REPRESENTATIVE.

REVISIONS:
NO. DATE DESCRIPTION

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CLIENT: **CITY OF TAMPA**
5940 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 16-C-0001**

SHEET TITLE:
**LANDSCAPE
MAINTENANCE PLAN & NOTES**

Celia R. Nichols, RLA, ALSA
LA0001518

Date

SUBMITTAL
DATE: DECEMBER 17, 2015
DRAWN BY: CRN
REVIEWED BY: CRN 12/5/2015
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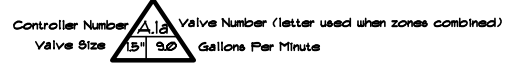
LD-03

Proposed Irrigation Legend	
	NEW IRRIGATION MAIN Sched. 80 PVC (See Plans - Size)
	NEW IRRIGATION SCH. 40 PVC ZONELINE PIPE (See Plans-Size)
	NEW IRRIGATION SLEEVE (MIN.=2X TOTAL PIPE SIZE ENCLOSED)*
	DIRECTIONAL BORE (INCLUDES HDPE PIPE OR WIRE) *
	PVC PIPE SIZE (Install to Depth per Specifications and Notes)
	RAINBIRD SPRAYHEAD: VAN-1812-SAM-NPCAP-18'R (1/2 & F Nozzle)***
	RAINBIRD SPRAYHEAD: MPR-1812-SAM-NPCAP-12'R(1/4, 1/2,F)***
	RAINBIRD SPRAYHEAD: MPR-1812-SAM-NPCAP-8'R (1/4, 1/2, F) ***
	RAINBIRD SPRAYHEAD: MPR-1812-SAM-NPCAP-5'R (1/4, 1/2, F) ***
	HUNTER ROTOR: I-25-06-SS-R*-04 Nozzle (Adjust per location)***
	NEW HUNTER - ECO-WRAP-12"-250'-IRRIGATION DRIPLINE
	NEW GATE VALVE (per City as required per code)
	IRRITROL 200 SERIES-NEW MASTER VALVE(Size as Shown)(Per City spec)
	NEW CONTROLLER IRRinet M-AC w/CM200 RADIO(12 or 24 Sta.w/SS Cab) (Incl. 1-14 AWG/1 Red Wire, 1-14 AWG/1 Extra Black, 1-12 AWG/1 Com. Wire from each Valve to Controller in gray conduit) Install on 2'x3' conc. pad.
	IRRITROL 200 SERIES VALVE IN A VALVE BOX (WITH STAMPED LID) Note: Valve Sizes are noted on the Irrigation Plan Sheets. (Incl. 1-14 AWG/1 Red, 1-12 AWG/1 Wht., 1-14 AWG/1 Extra Black. Wire for ea. Valve to Controller, in gray conduit.)
	LOCATION OF NEW 2" WATER METER Note: Provide 1-14 AWG/2 Maxicom from each Meter to Controller in Conduit.
	2" WATTS DOUBLE CHECK VALVE ASSEMBLY - BACKFLOW PREVENTOR Note: Specification shall meet City standards. Top-Ported.
	FLOWMETER - by MASTER METER: IP-68 (1/2" METER w/10 Gal. Pulse) Note: Provide 1-14 AWG/2 Maxicom from each Meter to Controller in Conduit.
	RAINBIRD 1402 (R) - BUBBLER- See Detail ID-01. Contractor to add (2) BUBBLERS to each Tree AND Palm.

* ALL BORES TO INCLUDE A SEPARATE PIPE EACH FOR WATER AND WIRE.
*** USE 12" POP-UPS SPRAYS IN ALL LANDSCAPE BEDS.

GENERAL NOTE: CONTRACTOR TO LOCATE ALL PIPE AND IRRIGATION SPRAY HEADS A MIN OF 4" FROM BACK OF CURB OR SIDEWALK.

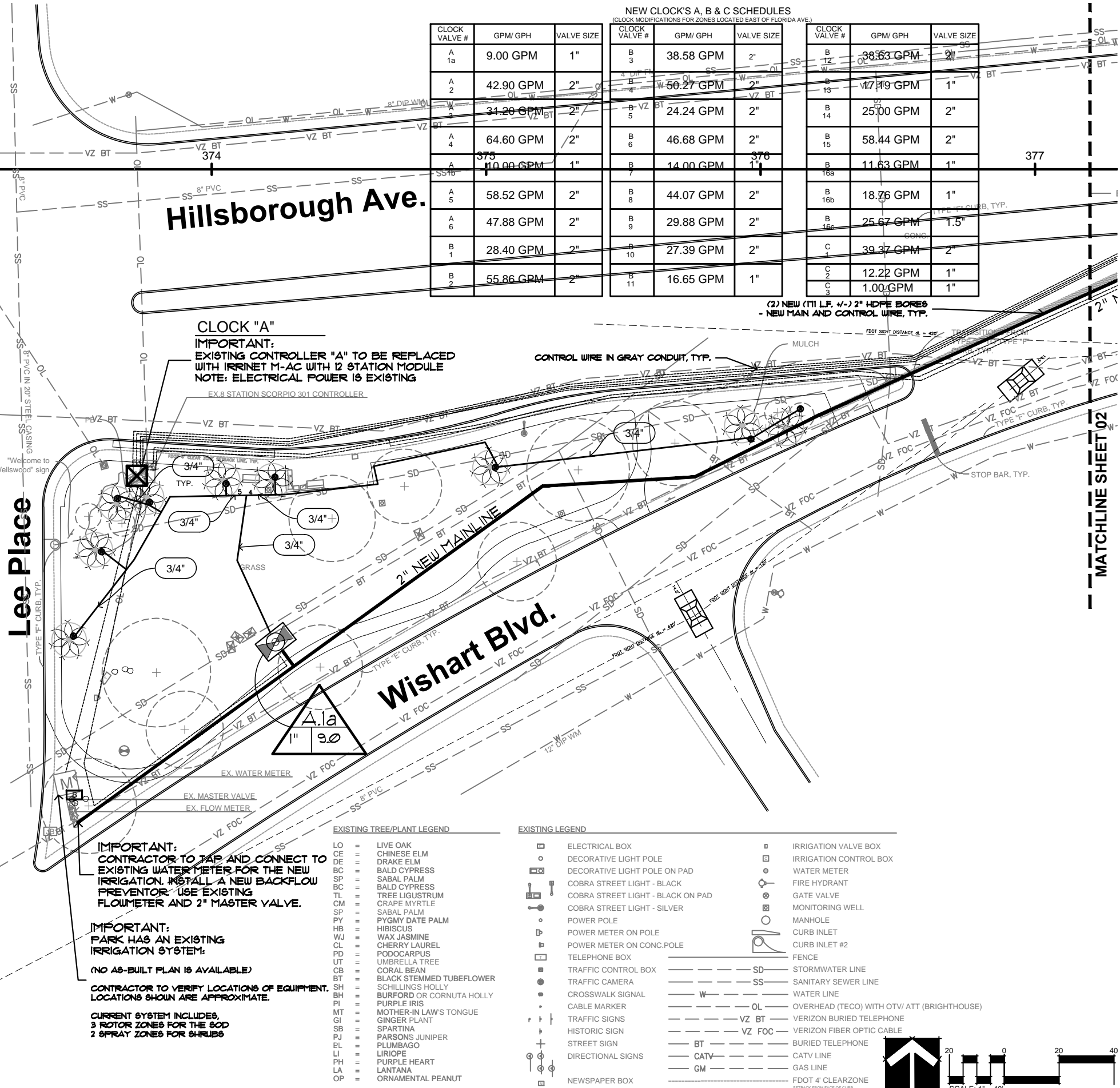
VALVE DETAIL



EXISTING IRRIGATION LEGEND

	EXISTING LATERAL LINE
	EXISTING MAIN LINE
	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
	EXISTING DRIP IRRIGATION AREA
	EXISTING BUBBLER (LOCATION IS APPROXIMATE)
	EXISTING ROTOR (LOCATION IS APPROXIMATE)
	EXISTING GATE VALVE (LOCATION IS APPROXIMATE)
	EXISTING JUNCTION BOX (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION VALVE WITH BOX (LOCATION IS APPROXIMATE)
	EXISTING WATER METER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION ZONE NUMBER

- BASE PLAN NOTES:
- CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING, BY CALLING 811.
 - NO OFFICIAL SURVEY WAS PERFORMED FOR THIS PROJECT. NICHOLS LANDSCAPE ARCHITECTURE, INC (NLA) DID NOT FIND ANY AS-BUILTS OR CURRENT PLANS FOR THIS PROJECT AREA.
 - THE BASE SHEETS WERE CREATED USING DIFFERENT SOURCES: F.D.O.T. WIDENING PLANS FOR HILLSBOROUGH AVENUE (FROM LEE PLACE TO FLORIDA AVENUE) - NOT DATED (PROJECT # 10150-6547), FLORIDA AVENUE TO N. CENTRAL AVENUE, DATED 03/1994 (PROJECT #10150-3543), A GOOGLE EARTH AERIAL, AND OUR OWN FIELD MEASUREMENTS.
 - FOR THE UTILITIES SHOWN, ONLY THOSE UTILITIES THAT COULD BE IMPACTED BY THE PROPOSED PLANTING HAVE BEEN SHOWN. THE UTILITY INFORMATION SHOWN IS BASED UPON THE UTILITIES THAT HAVE PROVIDED INFORMATION AS REQUESTED BY NLA.
 - NLA HAS ADDED INFORMATION AND MADE ADJUSTMENTS BASED UPON FIELD OBSERVATIONS. SOME UTILITIES MAY ACTUALLY BE ABANDONED, SHOWN IN THE WRONG LOCATION OR NOT SHOWN AT ALL.
 - NICHOLS LANDSCAPE ARCHITECTURE, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF THIS BASE PLAN. THESE BASE PLANS ARE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AS NECESSARY AND MAKE ADJUSTMENTS AS REQUIRED.



IMPORTANT:
CONTRACTOR TO TAP AND CONNECT TO EXISTING WATER METER FOR THE NEW IRRIGATION. INSTALL A NEW BACKFLOW PREVENTOR. USE EXISTING FLOWMETER AND 2" MASTER VALVE.

IMPORTANT:
PARK HAS AN EXISTING IRRIGATION SYSTEM:
(NO AS-BUILT PLAN IS AVAILABLE)
CONTRACTOR TO VERIFY LOCATIONS OF EQUIPMENT. LOCATIONS SHOWN ARE APPROXIMATE.

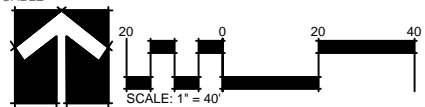
CURRENT SYSTEM INCLUDES:
3 ROTOR ZONES FOR THE BOD
2 SPRAY ZONES FOR SHRUBS

EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
SP	=	SABAL PALM
PY	=	PYGMY DATE PALM
HB	=	HIBISCUS
WJ	=	WAX JASMINE
CL	=	CHERRY LAUREL
PD	=	PODOCARPUS
UT	=	UMBRELLA TREE
CB	=	CORAL BEAN
BT	=	BLACK STEMMED TUBEFLOWER
SH	=	SCHILLINGS HOLLY
BH	=	BURFORD OR CORNUTA HOLLY
PI	=	PURPLE IRIS
MT	=	MOTHER-IN LAW'S TONGUE
GI	=	GINGER PLANT
SB	=	SPARTINA
PJ	=	PARSONS JUNIPER
PL	=	PLUMBAGO
LI	=	LIRIOPE
PH	=	PURPLE HEART
LA	=	LANTANA
OP	=	ORNAMENTAL PEANUT

EXISTING LEGEND

	ELECTRICAL BOX		IRRIGATION VALVE BOX
	DECORATIVE LIGHT POLE		IRRIGATION CONTROL BOX
	DECORATIVE LIGHT POLE ON PAD		WATER METER
	COBRA STREET LIGHT - BLACK		FIRE HYDRANT
	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
	POWER POLE		MANHOLE
	POWER METER ON POLE		CURB INLET
	POWER METER ON CONC. POLE		CURB INLET #2
	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		STORMWATER LINE
	TRAFFIC CAMERA		SANITARY SEWER LINE
	CROSSWALK SIGNAL		WATER LINE
	CABLE MARKER		OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VERIZON FIBER OPTIC CABLE
	STREET SIGN		BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV LINE
	NEWSPAPER BOX		GAS LINE
			FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



NEW CLOCK'S A, B & C SCHEDULES
(CLOCK MODIFICATIONS FOR ZONES LOCATED EAST OF FLORIDA AVE.)

CLOCK VALVE #	GPM/ GPH	VALVE SIZE	CLOCK VALVE #	GPM/ GPH	VALVE SIZE	CLOCK VALVE #	GPM/ GPH	VALVE SIZE
A 1a	9.00 GPM	1"	B 3	38.58 GPM	2"	B 12	38.53 GPM	2"
A 2	42.90 GPM	2"	B 4	50.27 GPM	2"	B 13	17.19 GPM	1"
A 3	31.20 GPM	2"	B 5	24.24 GPM	2"	B 14	25.00 GPM	2"
A 4	64.60 GPM	2"	B 6	46.68 GPM	2"	B 15	58.44 GPM	2"
A 5	10.00 GPM	1"	B 7	14.00 GPM	1"	B 16a	11.63 GPM	1"
A 5	58.52 GPM	2"	B 8	44.07 GPM	2"	B 16b	18.76 GPM	1"
A 6	47.88 GPM	2"	B 9	29.88 GPM	2"	B 16c	25.67 GPM	1.5"
B 1	28.40 GPM	2"	B 10	27.39 GPM	2"	C 1	39.37 GPM	2"
B 2	55.86 GPM	2"	B 11	16.65 GPM	1"	C 2	12.22 GPM	1"
						C 3	1.00 GPM	1"

(2) NEW (11 LF, 4") 2" HDPE BORES - NEW MAIN AND CONTROL WIRE, TYP.

REVISIONS:

NO.	DATE	DESCRIPTION

NICHOLS
LANDSCAPE ARCHITECTURE INC.

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celia@nichols-la.com
LC26006399

CLIENT: **CITY OF TAMPA**
5940 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 16-C-0001

SHEET TITLE: **IRRIGATION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015

DRAWN BY: CRN/ MG

REVIEWED BY: CRN 12/7/2015

NLA JOB NO: COTH14-1.01

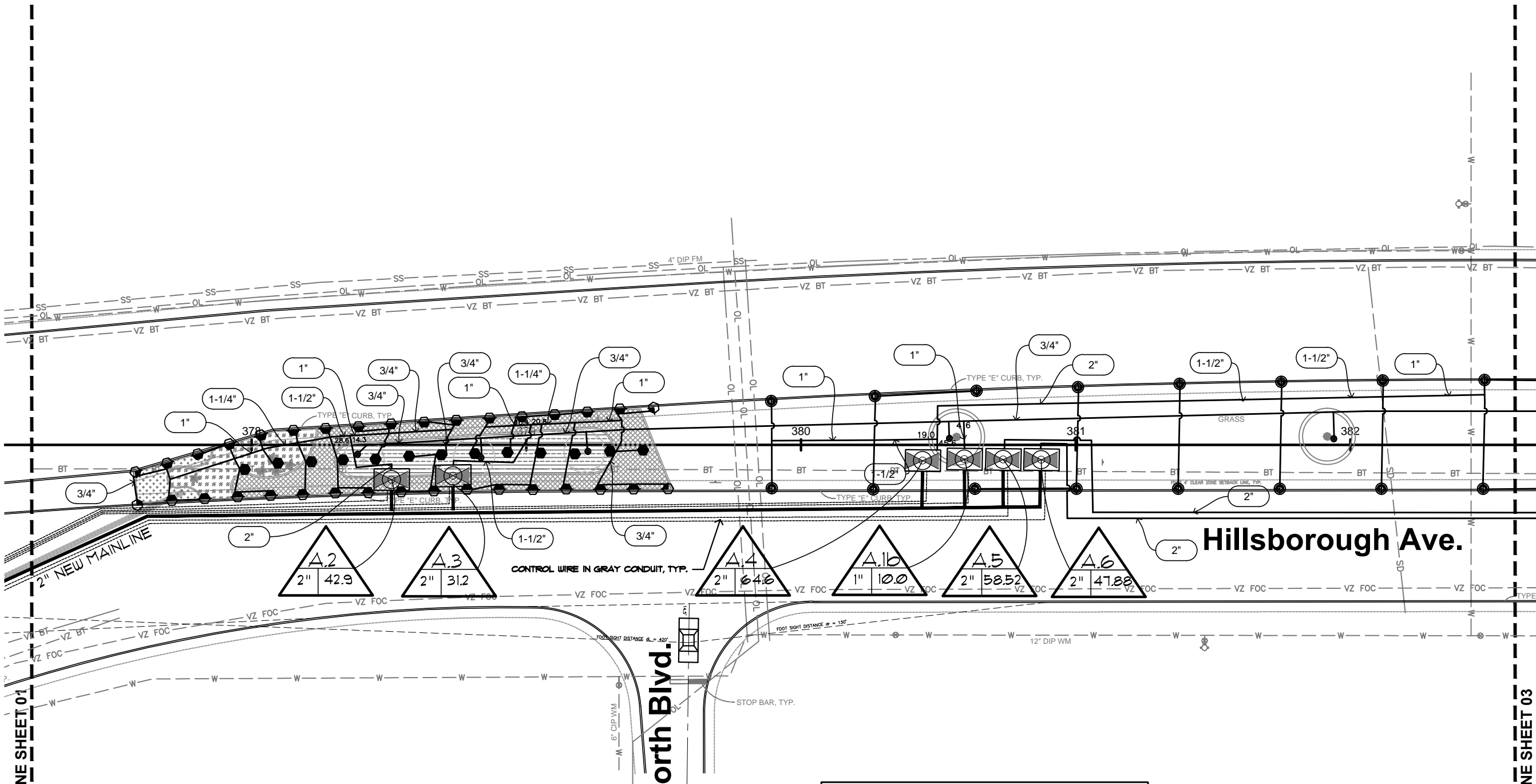
SHEET NUMBER

IR-01

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MATCHLINE SHEET 01

MATCHLINE SHEET 03



EXISTING TREE/PLANT LEGEND

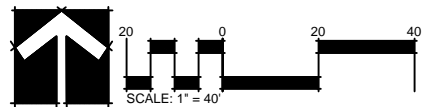
LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
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TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
SP	=	SABAL PALM
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WJ	=	WAX JASMINE
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EXISTING LEGEND

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	COBRA STREET LIGHT - BLACK ON PAD		FIRE HYDRANT
	COBRA STREET LIGHT - SILVER ON PAD		GATE VALVE
	POWER POLE		MONITORING WELL
	POWER METER ON POLE		MANHOLE
	POWER METER ON CONC. POLE		CURB INLET
	TELEPHONE BOX		CURB INLET #2
	TRAFFIC CONTROL BOX		FENCE
	TRAFFIC CAMERA		SD - STORMWATER LINE
	CROSSWALK SIGNAL		SS - SANITARY SEWER LINE
	CABLE MARKER		W - WATER LINE
	TRAFFIC SIGNS		OL - OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	HISTORIC SIGN		VZ BT - VERIZON BURIED TELEPHONE
	STREET SIGN		VZ FOC - VERIZON FIBER OPTIC CABLE
	DIRECTIONAL SIGNS		BT - BURIED TELEPHONE
	NEWSPAPER BOX		CATV - CATV LINE
			GM - GAS LINE
			FDOT 4' CLEARZONE

EXISTING IRRIGATION LEGEND

	EXISTING LATERAL LINE
	EXISTING MAIN LINE
	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
	EXISTING DRIP IRRIGATION AREA
	EXISTING BUBBLER (LOCATION IS APPROXIMATE)
	EXISTING ROTOR (LOCATION IS APPROXIMATE)
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	EXISTING WATER METER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION ZONE NUMBER



100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

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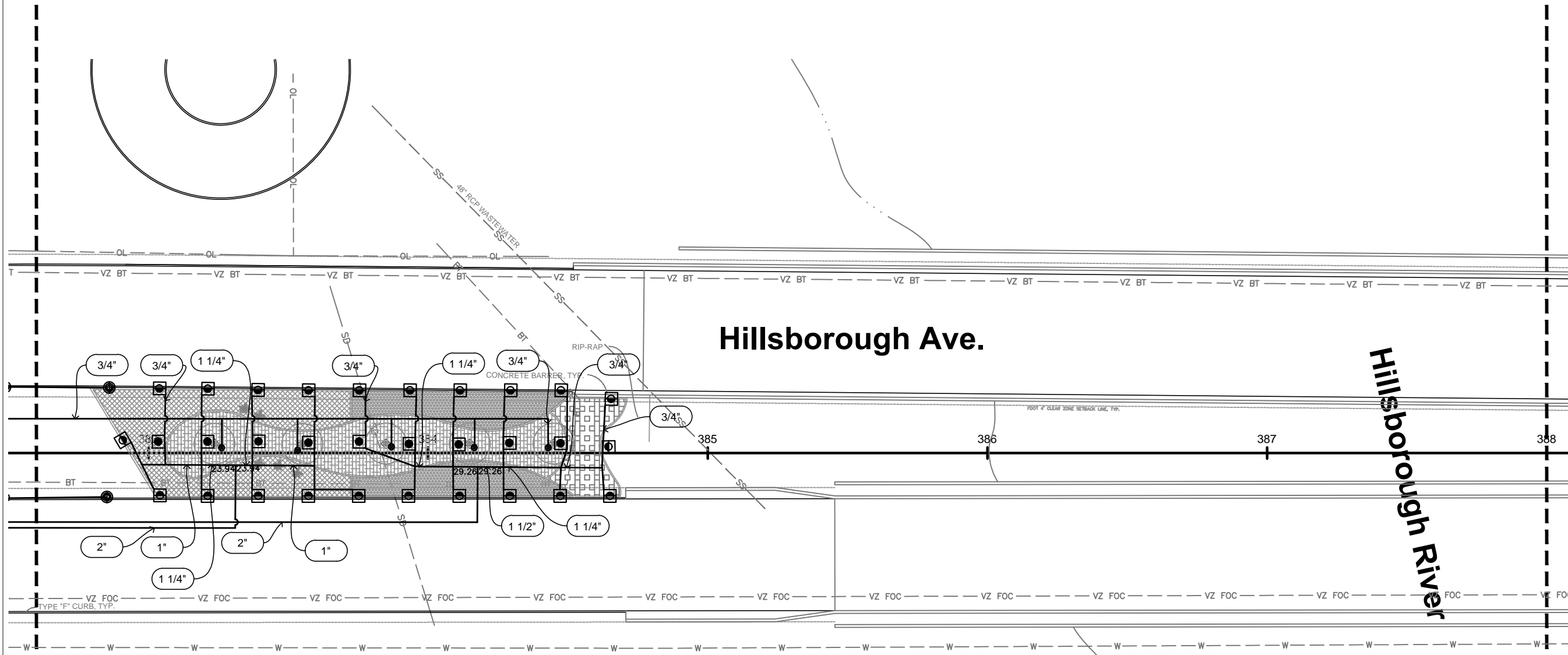
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SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 12/7/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

IR-02

MATCHLINE SHEET 02

MATCHLINE SHEET 04



EXISTING TREE/PLANT LEGEND

LO	=	LIVE OAK
CE	=	CHINESE ELM
DE	=	DRAKE ELM
BC	=	BALD CYPRESS
SP	=	SABAL PALM
BC	=	BALD CYPRESS
TL	=	TREE LIGUSTRUM
CM	=	CRAPE MYRTLE
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	COBRA STREET LIGHT - BLACK ON PAD		GATE VALVE
	COBRA STREET LIGHT - SILVER		MONITORING WELL
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	TELEPHONE BOX		FENCE
	TRAFFIC CONTROL BOX		SD STORMWATER LINE
	TRAFFIC CAMERA		SS SANITARY SEWER LINE
	CROSSWALK SIGNAL		W WATER LINE
	CABLE MARKER		OL OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	TRAFFIC SIGNS		VZ BT VERIZON BURIED TELEPHONE
	HISTORIC SIGN		VZ FOC VERIZON FIBER OPTIC CABLE
	STREET SIGN		BT BURIED TELEPHONE
	DIRECTIONAL SIGNS		CATV CATV LINE
	NEWSPAPER BOX		GM GAS LINE
			SDOT 4' CLEARZONE SETBACK FROM FACE OF CURB

EXISTING IRRIGATION LEGEND	
	EXISTING LATERAL LINE
	EXISTING MAIN LINE
	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
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	EXISTING IRRIGATION ZONE NUMBER



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CONTRACT NO. 16-C-0000

SHEET TITLE: **IRRIGATION PLAN**

Celia R. Nichols, RLA, ALSA
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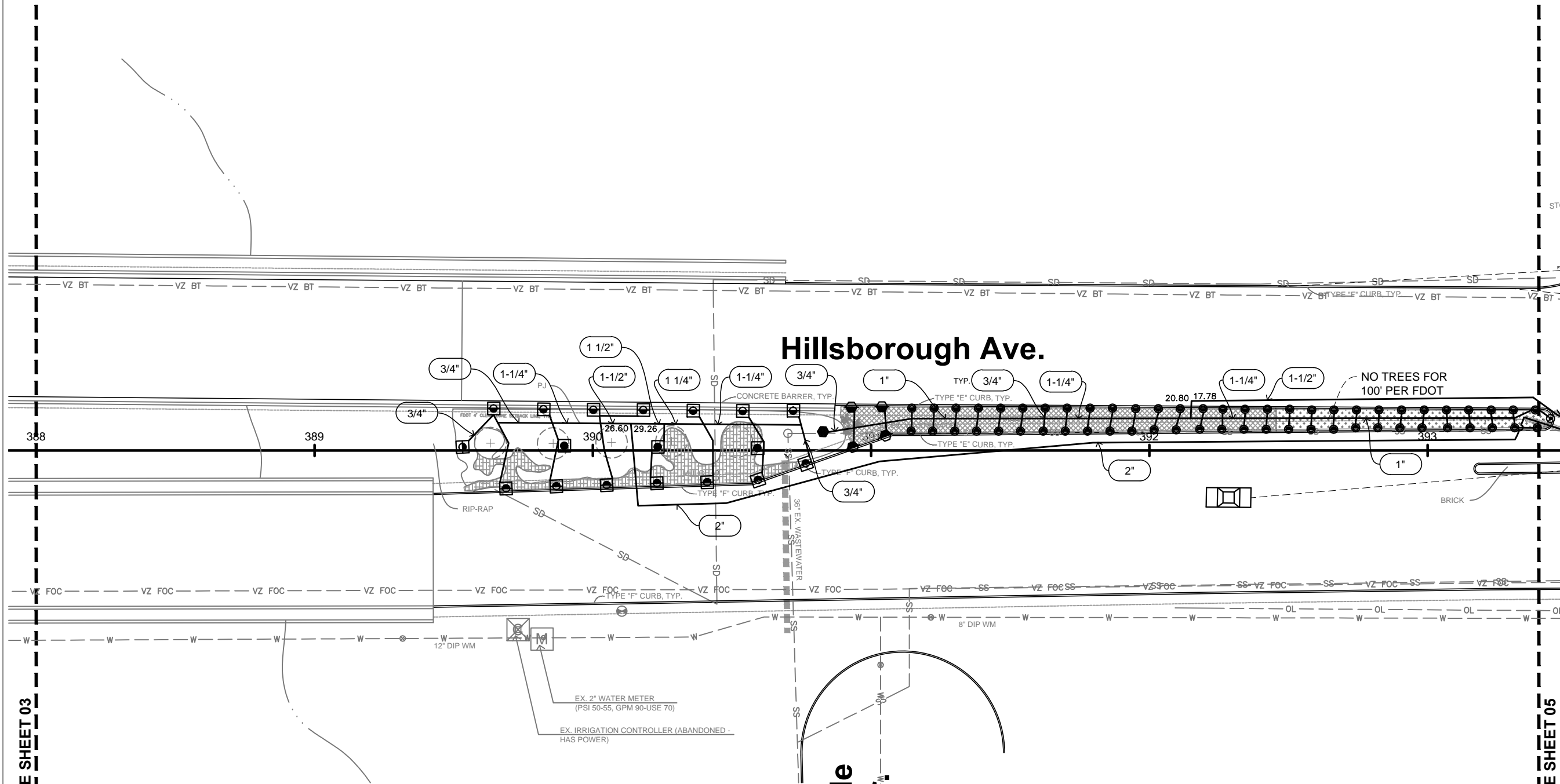
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DRAWN BY:	CRN/ MG
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SHEET NUMBER	

IR-03

MATCHLINE SHEET 03

MATCHLINE SHEET 05



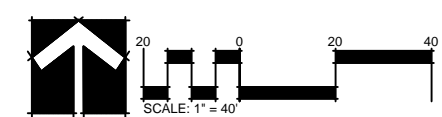
EXISTING TREE/PLANT LEGEND

- LO = LIVE OAK
- CE = CHINESE ELM
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- BC = BALD CYPRESS
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- BC = BALD CYPRESS
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EXISTING LEGEND

- ELECTRICAL BOX
- DECORATIVE LIGHT POLE
- DECORATIVE LIGHT POLE ON PAD
- COBRA STREET LIGHT - BLACK
- COBRA STREET LIGHT - BLACK ON PAD
- COBRA STREET LIGHT - SILVER
- POWER POLE
- POWER METER ON POLE
- POWER METER ON CONC. POLE
- TELEPHONE BOX
- TRAFFIC CONTROL BOX
- TRAFFIC CAMERA
- CROSSWALK SIGNAL
- CABLE MARKER
- TRAFFIC SIGNS
- HISTORIC SIGN
- STREET SIGN
- DIRECTIONAL SIGNS
- NEWSPAPER BOX
- IRRIGATION VALVE BOX
- IRRIGATION CONTROL BOX
- WATER METER
- FIRE HYDRANT
- GATE VALVE
- MONITORING WELL
- MANHOLE
- CURB INLET
- CURB INLET #2
- FENCE
- SD - STORMWATER LINE
- SS - SANITARY SEWER LINE
- W - WATER LINE
- OL - OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
- VZ BT - VERIZON BURIED TELEPHONE
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- CATV - CATV LINE
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	EXISTING LATERAL LINE
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PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 16-C-0000

SHEET TITLE: **IRRIGATION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015

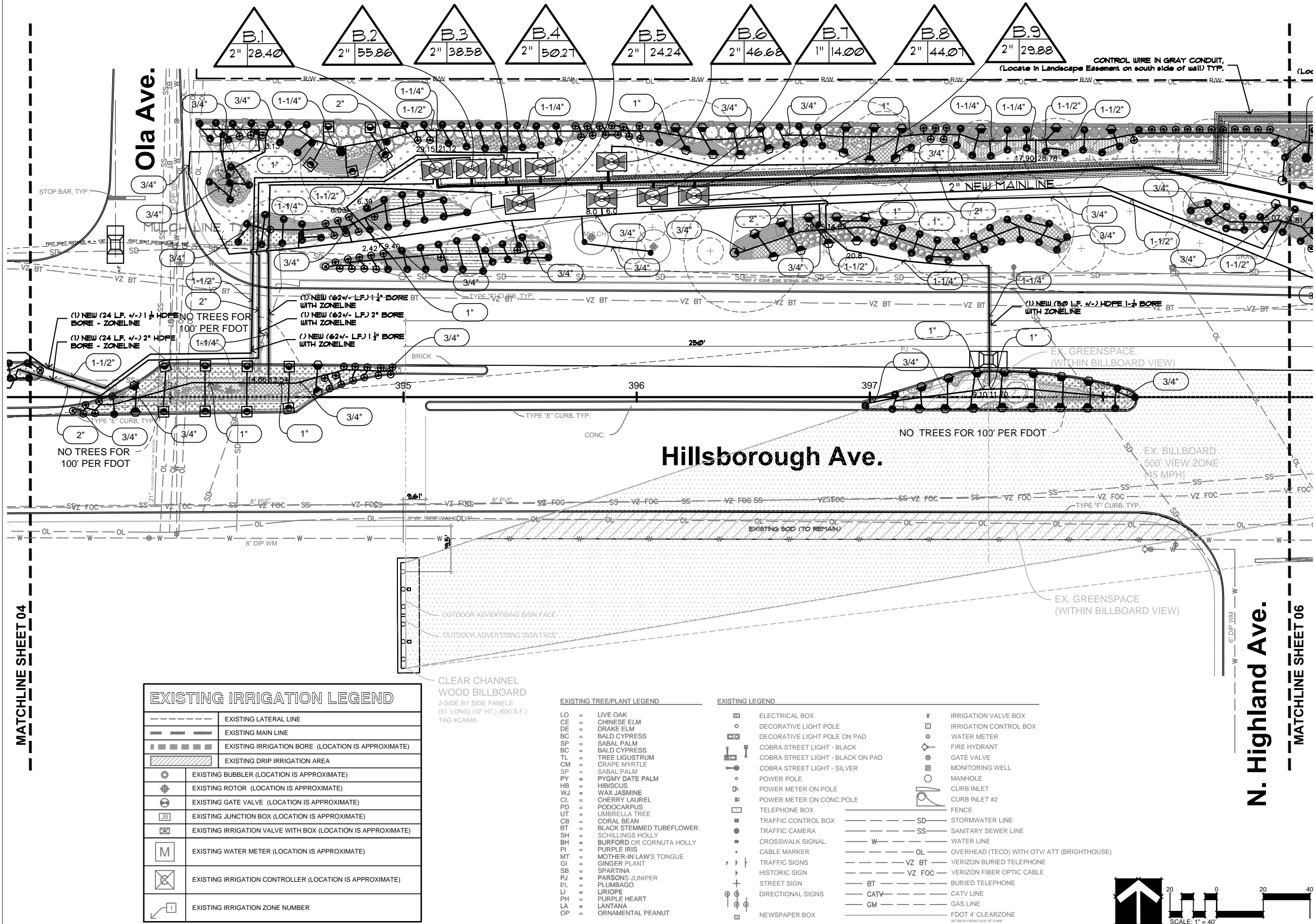
DRAWN BY: CRN/ MG

REVIEWED BY: CRN 12/7/2015

NLA JOB NO: COTH14-1.01

SHEET NUMBER

IR-04

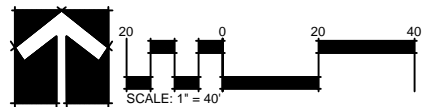


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	EXISTING LATERAL LINE
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	EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION ZONE NUMBER

CLEAR CHANNEL WOOD BILLBOARD
 2-SIDE BY SIDE PANELS
 (51' LONG) (37' HT.) (600 S.F.)
 TAG #CAB46

EXISTING TREE/PLANT LEGEND	
LO	LIVE OAK
CE	CHINESE ELM
DE	DRAKE ELM
BC	BALD CYPRESS
SP	SABAL PALM
BC	BALD CYPRESS
TL	TREE LIGUSTRUM
CM	CRAPE MYRTLE
SP	SABAL PALM
PY	PYGMY DATE PALM
HB	HIBISCUS
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EXISTING LEGEND	
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	TELEPHONE BOX
	TRAFFIC CONTROL BOX
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	CROSSWALK SIGNAL
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	GATE VALVE
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	VERIZON BURIED TELEPHONE
	VERIZON FIBER OPTIC CABLE
	BURIED TELEPHONE
	CATV LINE
	GAS LINE
	FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB



MATCHLINE SHEET 04

MATCHLINE SHEET 06

REVISIONS:	NO.	DATE	DESCRIPTION

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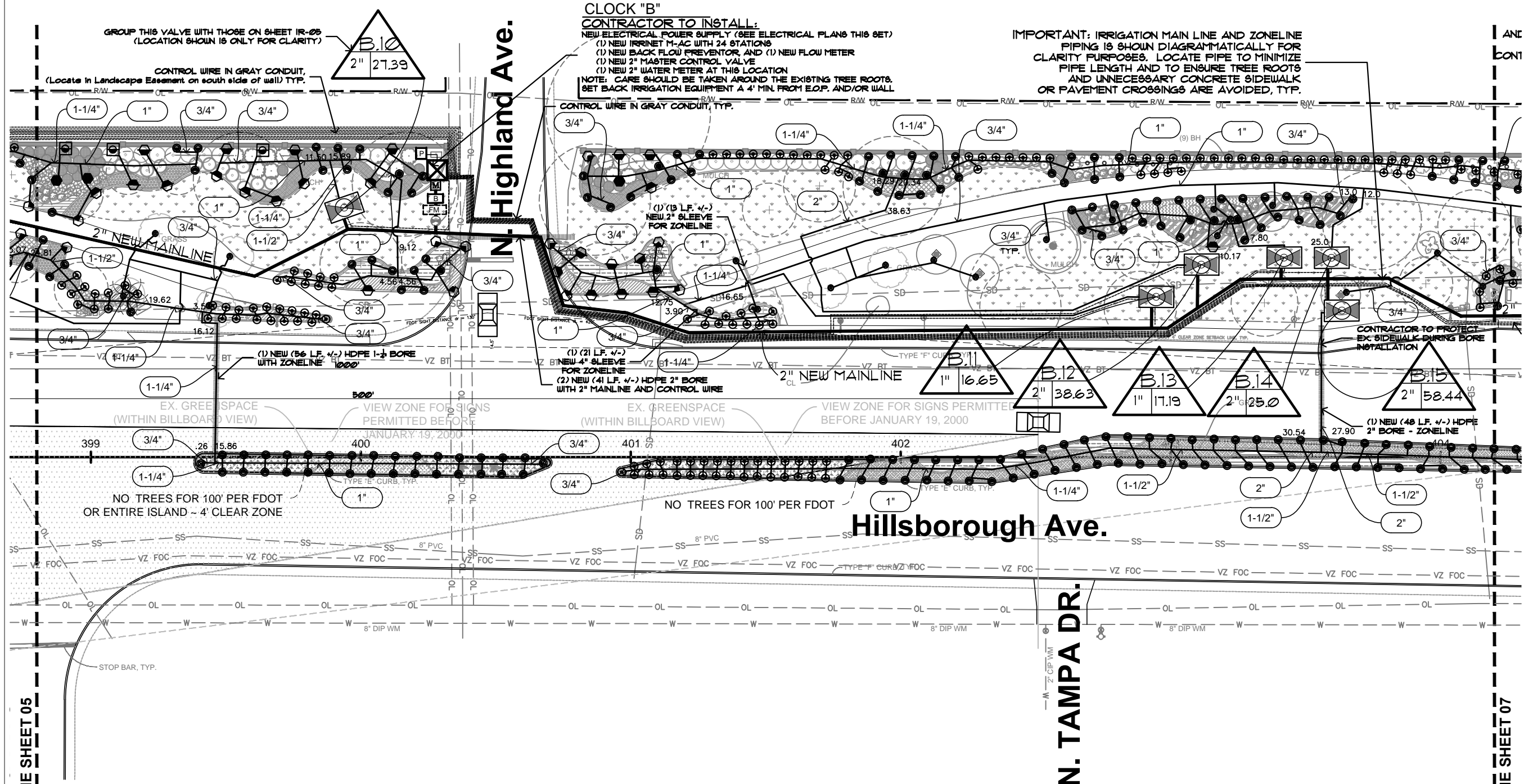
SUBMITTAL DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN/ MG
REVIEWED BY:	CRN 12/7/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	IR-05

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MATCHLINE SHEET 05

MATCHLINE SHEET 07



CLOCK "B"
CONTRACTOR TO INSTALL:
 NEW ELECTRICAL POWER SUPPLY (SEE ELECTRICAL PLANS THIS SET)
 (1) NEW IRRINET M-AC WITH 24 STATIONS
 (1) NEW BACK FLOW PREVENTOR AND (1) NEW FLOW METER
 (1) NEW 2" MASTER CONTROL VALVE
 (1) NEW 2" WATER METER AT THIS LOCATION
NOTE: CARE SHOULD BE TAKEN AROUND THE EXISTING TREE ROOTS. SET BACK IRRIGATION EQUIPMENT A 4' MIN. FROM E.O.P. AND/OR WALL

IMPORTANT: IRRIGATION MAIN LINE AND ZONELINE PIPING IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES. LOCATE PIPE TO MINIMIZE PIPE LENGTH AND TO ENSURE TREE ROOTS AND UNNECESSARY CONCRETE SIDEWALK OR PAVEMENT CROSSINGS ARE AVOIDED, TYP.

CONTROL WIRE IN GRAY CONDUIT, TYP.

CONTRACTOR TO PROTECT EX. SIDEWALK DURING BORE INSTALLATION

GROUP THIS VALVE WITH THOSE ON SHEET IR-05 (LOCATION SHOWN IS ONLY FOR CLARITY)

CONTROL WIRE IN GRAY CONDUIT, (Locate in Landscape Easement on south side of wall) TYP.

(1) NEW (56 LF. +/-) HDPE 1-1/2" BORE WITH ZONELINE

(1) (21 LF. +/-) NEW 2" SLEEVE FOR ZONELINE
 (2) NEW (41 LF. +/-) HDPE 2" BORE WITH 2" MAINLINE AND CONTROL WIRE

(1) NEW (48 LF. +/-) HDPE 2" BORE - ZONELINE

Hillsborough Ave.

N. TAMPA DR.

N. Highland Ave.

EXISTING TREE/PLANT LEGEND

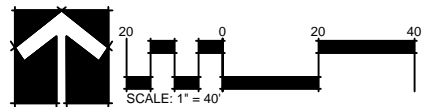
- LO = LIVE OAK
- CE = CHINESE ELM
- DE = DRAKE ELM
- BC = BALD CYPRESS
- SP = SABAL PALM
- BC = BALD CYPRESS
- TL = TREE LIGUSTRUM
- CM = CRAPE MYRTLE
- SP = SABAL PALM
- PY = PYGMY DATE PALM
- HB = HIBISCUS
- WJ = WAX JASMINE
- CL = CHERRY LAUREL
- PD = PODOCARPUS
- UT = UMBRELLA TREE
- CB = CORAL BEAN
- BT = BLACK STEMMED TUBEFLOWER
- SH = SCHILLINGS HOLLY
- BH = BURFORD OR CORNUTA HOLLY
- PI = PURPLE IRIS
- MT = MOTHER-IN-LAW'S TONGUE
- GI = GINGER PLANT
- SB = SPARTINA
- PJ = PARSONS JUNIPER
- EL = PLUMBAGO
- LI = LIRIOPE
- PH = PURPLE HEART
- LA = LANTANA
- OP = ORNAMENTAL PEANUT

EXISTING LEGEND

- = ELECTRICAL BOX
- = DECORATIVE LIGHT POLE
- = DECORATIVE LIGHT POLE ON PAD
- = COBRA STREET LIGHT - BLACK
- = COBRA STREET LIGHT - BLACK ON PAD
- = COBRA STREET LIGHT - SILVER
- = POWER POLE
- = POWER METER ON POLE
- = POWER METER ON CONC. POLE
- = TELEPHONE BOX
- = TRAFFIC CONTROL BOX
- = TRAFFIC CAMERA
- = CROSSWALK SIGNAL
- = CABLE MARKER
- = TRAFFIC SIGNS
- = HISTORIC SIGN
- = STREET SIGN
- = DIRECTIONAL SIGNS
- = NEWSPAPER BOX
- = IRRIGATION VALVE BOX
- = IRRIGATION CONTROL BOX
- = WATER METER
- = FIRE HYDRANT
- = GATE VALVE
- = MONITORING WELL
- = MANHOLE
- = CURB INLET
- = CURB INLET #2
- = FENCE
- SD— = STORMWATER LINE
- SS— = SANITARY SEWER LINE
- W— = WATER LINE
- OL— = OVERHEAD (TECO) WITH OTV/ ATT (BRIGHHOUSE)
- VZ BT— = VERIZON BURIED TELEPHONE
- VZ FOC— = VERIZON FIBER OPTIC CABLE
- BT— = BURIED TELEPHONE
- CATV— = CATV LINE
- GM— = GAS LINE
- — — = FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)

EXISTING IRRIGATION LEGEND

---	EXISTING LATERAL LINE
---	EXISTING MAIN LINE
---	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
---	EXISTING DRIP IRRIGATION AREA
○	EXISTING BUBBLER (LOCATION IS APPROXIMATE)
⊙	EXISTING ROTOR (LOCATION IS APPROXIMATE)
⊕	EXISTING GATE VALVE (LOCATION IS APPROXIMATE)
⊞	EXISTING JUNCTION BOX (LOCATION IS APPROXIMATE)
⊞	EXISTING IRRIGATION VALVE WITH BOX (LOCATION IS APPROXIMATE)
M	EXISTING WATER METER (LOCATION IS APPROXIMATE)
⊞	EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
1	EXISTING IRRIGATION ZONE NUMBER



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REVISIONS:

NO.	DATE	DESCRIPTION

NICHOLS
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 Lutz, FL 33548
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 877.246.3714 f.
 LC26006399
 cella@nichols-la.com



CLIENT: **CITY OF TAMPA**
 5940 W. COLUMBUS DRIVE
 TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
 GATEWAY ENHANCEMENT
 LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
 CONTRACT NO. 15-C-0001**

SHEET TITLE:
IRRIGATION PLAN

Celia R. Nichols, RLA, ALSA
 LA0001518

Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015

DRAWN BY: CRN/ MG

REVIEWED BY: CRN 12/7/2015

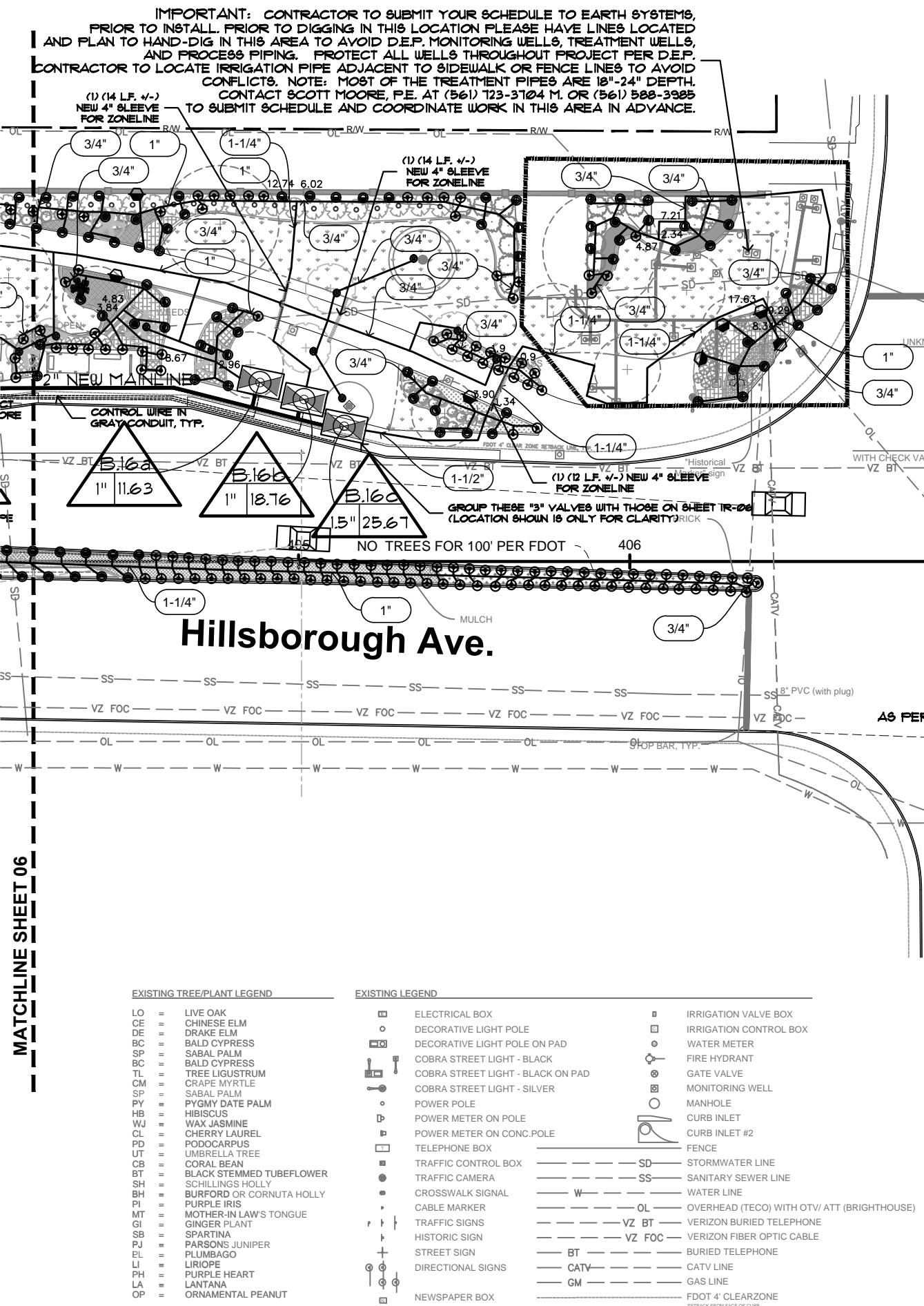
NLA JOB NO: COTH14-1.01

SHEET NUMBER

IR-06

MATCHLINE SHEET 06

MATCHLINE SHEET 08



Florida Ave.

Florida Ave.

Hillsborough Ave.

EXISTING TREE/PLANT LEGEND

- LO = LIVE OAK
- CE = CHINESE ELM
- DE = DRAKE ELM
- BC = BALD CYPRESS
- SP = SABAL PALM
- BC = BALD CYPRESS
- TL = TREE LIGUSTRUM
- CM = CRAPE MYRTLE
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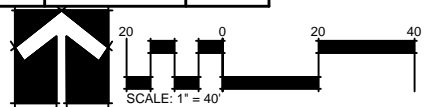
EXISTING LEGEND

- = ELECTRICAL BOX
- = DECORATIVE LIGHT POLE
- = DECORATIVE LIGHT POLE ON PAD
- = COBRA STREET LIGHT - BLACK
- = COBRA STREET LIGHT - BLACK ON PAD
- = COBRA STREET LIGHT - SILVER
- = POWER POLE
- = POWER METER ON POLE
- = POWER METER ON CONC. POLE
- = TELEPHONE BOX
- = TRAFFIC CONTROL BOX
- = TRAFFIC CAMERA
- = CROSSWALK SIGNAL
- = CABLE MARKER
- = TRAFFIC SIGNS
- = HISTORIC SIGN
- = STREET SIGN
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- = IRRIGATION CONTROL BOX
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- CATV= CATV LINE
- GM= GAS LINE
- = FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB

EXISTING IRRIGATION LEGEND

- = EXISTING LATERAL LINE
- = EXISTING MAIN LINE
- = EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
- = EXISTING DRIP IRRIGATION AREA
- = EXISTING BUBBLER (LOCATION IS APPROXIMATE)
- = EXISTING ROTOR (LOCATION IS APPROXIMATE)
- = EXISTING GATE VALVE (LOCATION IS APPROXIMATE)
- = EXISTING JUNCTION BOX (LOCATION IS APPROXIMATE)
- = EXISTING IRRIGATION VALVE WITH BOX (LOCATION IS APPROXIMATE)
- = EXISTING WATER METER (LOCATION IS APPROXIMATE)
- = EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
- 1 = EXISTING IRRIGATION ZONE NUMBER

VALVE #	GPM/ GPH	VALVE SIZE
4	7.04 GPM	1"
5	14.59 GPM	1"
8	28.70 GPM	2"
11	32 + 37 GPM	2"
14	4.34 GPM	1"
16	8.00 GPM	1"
21	7.0+ GPM	2"
23	27.39 GPM	2"
26	18.91 GPM	1"
28	15.88 GPM	1"



REVISIONS:

NO.	DATE	DESCRIPTION

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cella@nichols-la.com



CLIENT: **CITY OF TAMPA**
5940 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-275
CONTRACT NO. 14-C-0001

SHEET TITLE: **IRRIGATION PLAN**

Cella R. Nichols, RLA, ALSA
LA0001518

Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 12/7/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

IR-07

MATCHLINE SHEET 07

N. Suwanee Ave.

N. Suwanee Ave.

EXISTING IRRIGATION LEGEND	
---	EXISTING LATERAL LINE
---	EXISTING MAIN LINE
---	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
---	EXISTING DRIP IRRIGATION AREA
○	EXISTING BUBBLER (LOCATION IS APPROXIMATE)
⊙	EXISTING ROTOR (LOCATION IS APPROXIMATE)
⊗	EXISTING GATE VALVE (LOCATION IS APPROXIMATE)
⊠	EXISTING JUNCTION BOX (LOCATION IS APPROXIMATE)
⊞	EXISTING IRRIGATION VALVE WITH BOX (LOCATION IS APPROXIMATE)
M	EXISTING WATER METER (LOCATION IS APPROXIMATE)
⊞	EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
1	EXISTING IRRIGATION ZONE NUMBER

Hillsborough Ave.

N. Branch Ave.

N. Branch Ave.

EXISTING TREE/PLANT LEGEND	
LO	LIVE OAK
CE	CHINESE ELM
DE	DRAKE ELM
BC	BALD CYPRESS
SP	SABAL PALM
BC	BALD CYPRESS
TL	TREE LIGUSTRUM
CM	CRAPE MYRTLE
SP	SABAL PALM
PY	PYGMY DATE PALM
HB	HIBISCUS
WJ	WAX JASMINE
CL	CHERRY LAUREL
PD	PODOCARPUS
UT	UMBRELLA TREE
CB	CORAL BEAN
BT	BLACK STEMMED TUBEFLOWER
SH	SCHILLINGS HOLLY
BH	BURFORD OR CORNUTA HOLLY
PI	PURPLE IRIS
MT	MOTHER-IN LAW'S TONGUE
GI	GINGER PLANT
SB	SPARTINA
PJ	PARSONS JUNIPER
EL	PLUMBAGO
LI	LIRIOPE
PH	PURPLE HEART
LA	LANTANA
OP	ORNAMENTAL PEANUT

EXISTING LEGEND	
□	ELECTRICAL BOX
○	DECORATIVE LIGHT POLE
⊠	DECORATIVE LIGHT POLE ON PAD
⊞	COBRA STREET LIGHT - BLACK
⊞	COBRA STREET LIGHT - BLACK ON PAD
⊞	COBRA STREET LIGHT - SILVER
⊞	POWER POLE
⊞	POWER METER ON POLE
⊞	POWER METER ON CONC. POLE
⊞	TELEPHONE BOX
⊞	TRAFFIC CONTROL BOX
⊞	TRAFFIC CAMERA
⊞	CROSSWALK SIGNAL
⊞	CABLE MARKER
⊞	TRAFFIC SIGNS
⊞	HISTORIC SIGN
⊞	STREET SIGN
⊞	DIRECTIONAL SIGNS
⊞	NEWSPAPER BOX

□	IRRIGATION VALVE BOX
□	IRRIGATION CONTROL BOX
○	WATER METER
⊞	FIRE HYDRANT
⊞	GATE VALVE
⊞	MONITORING WELL
⊞	MANHOLE
⊞	CURB INLET
⊞	CURB INLET #2
⊞	FENCE
---	SD STORMWATER LINE
---	SS SANITARY SEWER LINE
---	W WATER LINE
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---	VZ BT VERIZON BURIED TELEPHONE
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---	CATV CATV LINE
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---	FDOT 4' CLEARZONE SETBACK FROM FACE OF CURB



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CITY OF TAMPA
 5940 W. COLUMBUS DRIVE
 TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
 GATEWAY ENHANCEMENT**
 LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
 CONTRACT NO. 16-C-0001

SHEET TITLE:
IRRIGATION PLAN

Client: Celia R. Nichols, RLA, ALSA
 LA0001518

DATE: _____
 SUBMITTAL DATE: DECEMBER 17, 2015
 DRAWN BY: CRN/ MG
 REVIEWED BY: CRN 12/7/2015
 NLA JOB NO: COTH14-1.01
 SHEET NUMBER

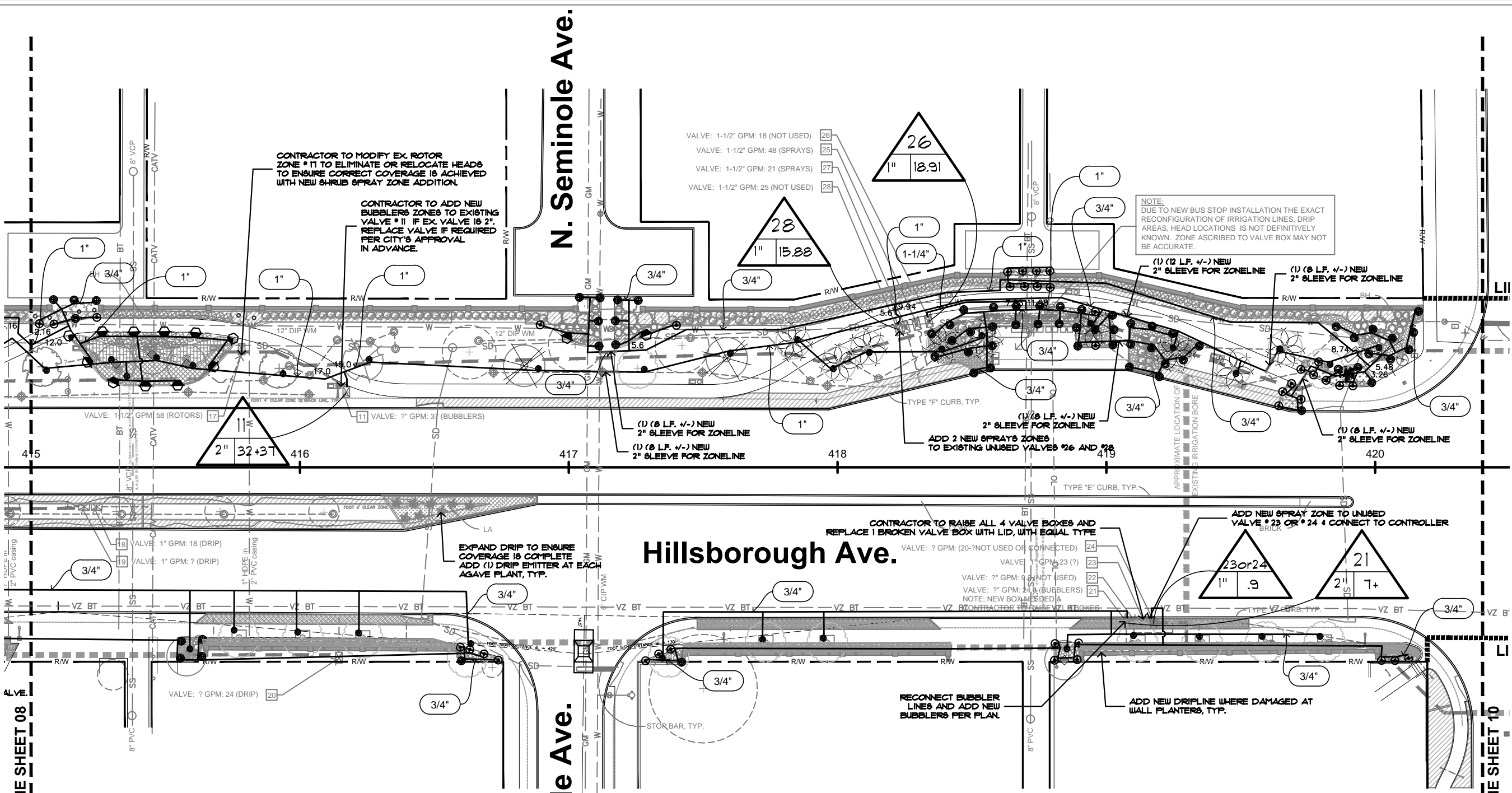
IR-08

REVISIONS:
 NO. DATE DESCRIPTION

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 877.246.3714 f.
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 celia@nichols-la.com
 LC26006399



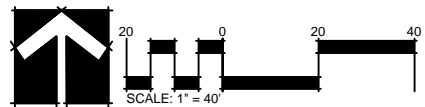
MATCHLINE SHEET 08



EXISTING IRRIGATION LEGEND	
	EXISTING LATERAL LINE
	EXISTING MAIN LINE
	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
	EXISTING DRIP IRRIGATION AREA
	EXISTING BUBBLER (LOCATION IS APPROXIMATE)
	EXISTING ROTOR (LOCATION IS APPROXIMATE)
	EXISTING GATE VALVE (LOCATION IS APPROXIMATE)
	EXISTING JUNCTION BOX (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION VALVE WITH BOX (LOCATION IS APPROXIMATE)
	EXISTING WATER METER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION CONTROLLER (LOCATION IS APPROXIMATE)
	EXISTING IRRIGATION ZONE NUMBER

EXISTING TREE/PLANT LEGEND	
LO	LIVE OAK
CE	CHINESE ELM
DE	DRAKE ELM
BC	BALD CYPRESS
SP	SABAL PALM
BC	BALD CYPRESS
TL	TREE LIGUSTRUM
CM	CRAPE MYRTLE
SP	SABAL PALM
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HB	HIBISCUS
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PJ	PARSONS JUNIPER
PL	PLUMBAGO
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PH	PURPLE HEART
LA	LANTANA
OP	ORNAMENTAL PEANUT

EXISTING LEGEND	
	ELECTRICAL BOX
	DECORATIVE LIGHT POLE
	DECORATIVE LIGHT POLE ON PAD
	COBRA STREET LIGHT - BLACK
	COBRA STREET LIGHT - BLACK ON PAD
	COBRA STREET LIGHT - SILVER
	POWER POLE
	POWER METER ON POLE
	POWER METER ON CONC. POLE
	TELEPHONE BOX
	TRAFFIC CONTROL BOX
	TRAFFIC CAMERA
	CROSSWALK SIGNAL
	CABLE MARKER
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	STREET SIGN
	DIRECTIONAL SIGNS
	NEWSPAPER BOX
	IRRIGATION VALVE BOX
	IRRIGATION CONTROL BOX
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	FIRE HYDRANT
	GATE VALVE
	MONITORING WELL
	MANHOLE
	CURB INLET
	CURB INLET #2
	FENCE
	SD STORMWATER LINE
	SS SANITARY SEWER LINE
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	OL OVERHEAD (TECO) WITH OTV/ ATT (BRIGHTHOUSE)
	VZ BT VERIZON BURIED TELEPHONE
	VZ FOC VERIZON FIBER OPTIC CABLE
	BT BURIED TELEPHONE
	CATV CATV LINE
	GM GAS LINE
	FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



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CLIENT: **CITY OF TAMPA**
5940 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE: **IRRIGATION PLAN**

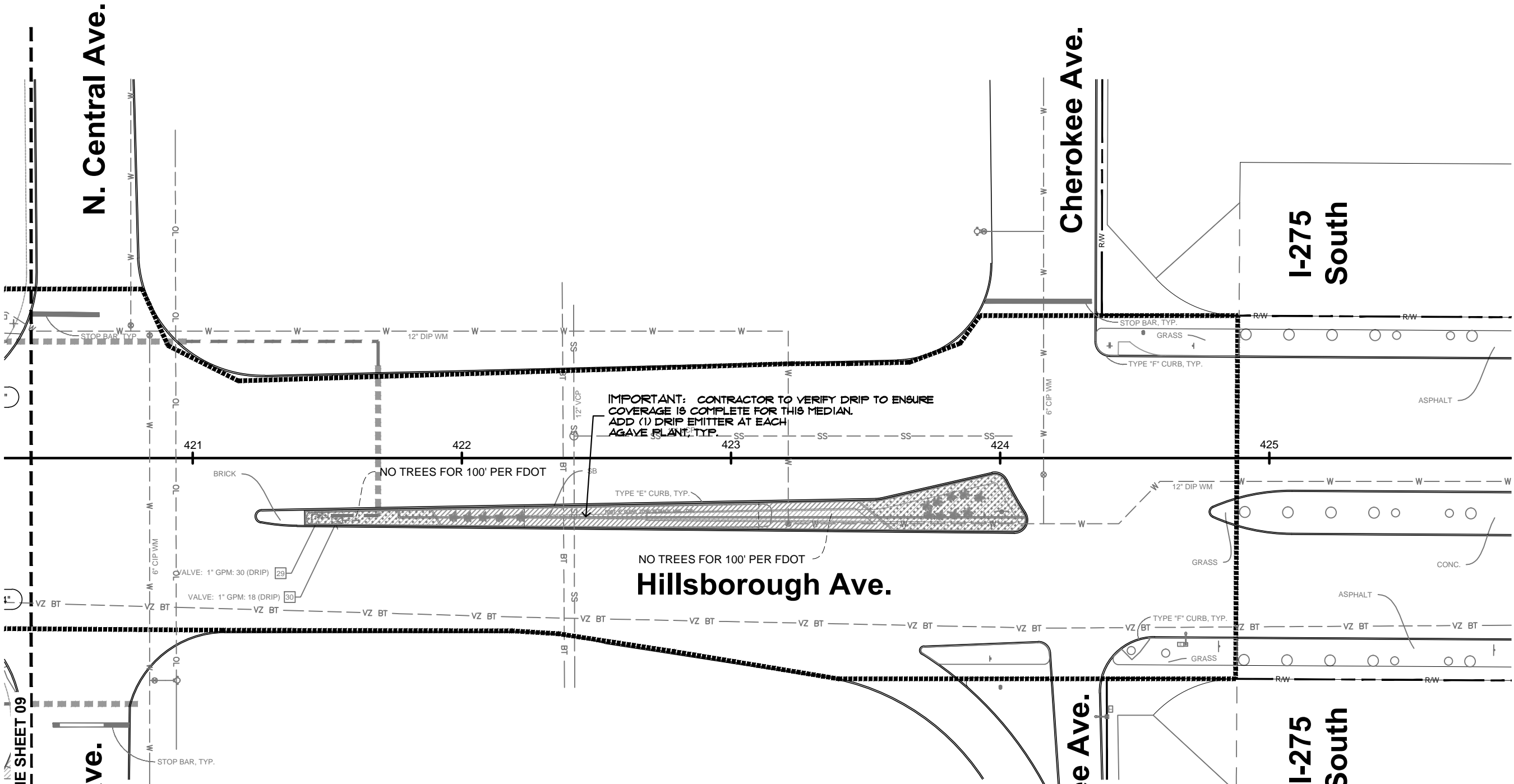
Celia R. Nichols, RLA, ALSA
LA0001518

Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
REVIEWED BY: CRN 12/7/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

IR-09

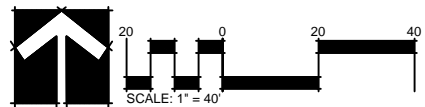
MATCHLINE SHEET 09



EXISTING IRRIGATION LEGEND	
	EXISTING LATERAL LINE
	EXISTING MAIN LINE
	EXISTING IRRIGATION BORE (LOCATION IS APPROXIMATE)
	EXISTING DRIP IRRIGATION AREA
	EXISTING BUBBLER (LOCATION IS APPROXIMATE)
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EXISTING TREE/PLANT LEGEND	
LO	LIVE OAK
CE	CHINESE ELM
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BC	BALD CYPRESS
SP	SABAL PALM
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TL	TREE LIGUSTRUM
CM	CRAPE MYRTLE
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LI	LIRIOPE
PH	PURPLE HEART
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OP	ORNAMENTAL PEANUT

EXISTING LEGEND	
	ELECTRICAL BOX
	DECORATIVE LIGHT POLE
	DECORATIVE LIGHT POLE ON PAD
	COBRA STREET LIGHT - BLACK
	COBRA STREET LIGHT - BLACK ON PAD
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	POWER POLE
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	CURB INLET
	CURB INLET #2
	FENCE
	SD - STORMWATER LINE
	SS - SANITARY SEWER LINE
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	VZ FOC - VERIZON FIBER OPTIC CABLE
	BT - BURIED TELEPHONE
	CATV - CATV LINE
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	FDOT 4' CLEARZONE (SETBACK FROM FACE OF CURB)



REVISIONS:	NO.	DATE	DESCRIPTION

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CLIENT: **CITY OF TAMPA**
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PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOUND OVERPASS OF I-275
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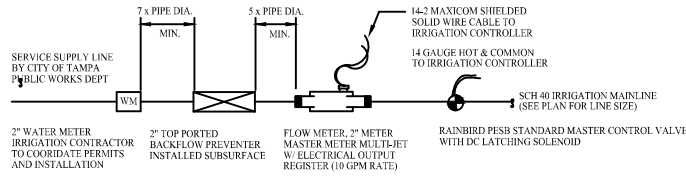
SHEET TITLE: **IRRIGATION PLAN**

Celia R. Nichols, RLA, ALSA
LA0001518

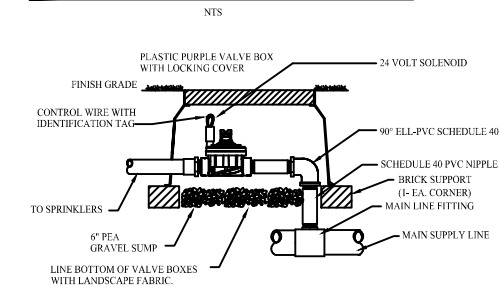
Date: _____

SUBMITTAL DATE: DECEMBER 17, 2015
DRAWN BY: CRN/ MG
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NLA JOB NO: COTH14-1.01
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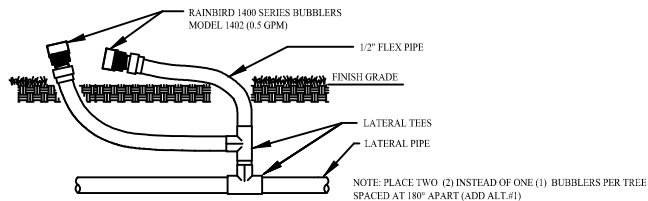
IR-10



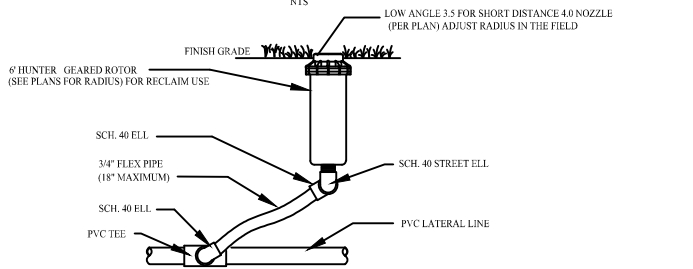
METER ASSEMBLY SCHEMATIC



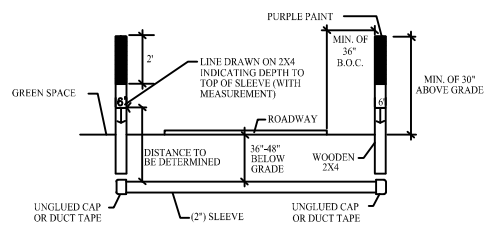
IRRI 200B SERIES CONTROL VALVE



RAINBIRD 1400 SERIES BUBBLER



HUNTER I-25 GEAR ROTOR



SLEEVE DETAIL

- 1. SLEEVE SHALL BE SCHEDULE 40 PVC.
- 2. DEPTH TO BE MINIMUM OF 24" BELOW PAVING SUBGRADE & MAXIMUM OF 36" BELOW PAVING SUBGRADE. IN NO CASE SHALL THE TOP OF THE SLEEVE PIPE BE GREATER THAN THREE (3) FEET BELOW FINAL GRADE (TOP OF PAVEMENT OR BACK OF CURB).
- 3. ENDS OF PIPE TO EXTEND 24" TO 36" BEYOND BACK OF CURB OR BACK OF SIDEWALK IF SIDEWALK IS BUILT TO CURB.
- 4. ENDS OF PIPE TO BE TAPED OFF WITH DUCT TAPE.
- 5. CONTRACTOR SHALL STAKE BOTH ENDS OF EACH CROSSING (WITH 8" X 2 X 4, TOP PAINTED PURPLE) AND ACCURATELY AS-BUILT (DIMENSION FROM FIXED OBJECTS OR STRUCTURES) IN CASE STAKES ARE REMOVED.
- 6. SHOULD STAKES NOT BE PRESENT WHEN IRRIGATION CONSTRUCTION BEGINS, AND NO ACCURATE AS-BUILT BE AVAILABLE, THE SLEEVE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING TO THE SITE AND EXCAVATING BOTH ENDS OF THE SLEEVES.
- 7. THE SLEEVE SHALL BE INSTALLED IN A STRAIGHT LINE WITH PROPOSED IRRIGATION PIPING, LEAVING NO OBSTRUCTION (I.E. UNDER DRAIN, FORCE MAIN, SEWER LINE, POWER CABLE, FOOTER, ETC.) AT EITHER END OF THE SLEEVE.

Series 007 Double Check Valve Assemblies

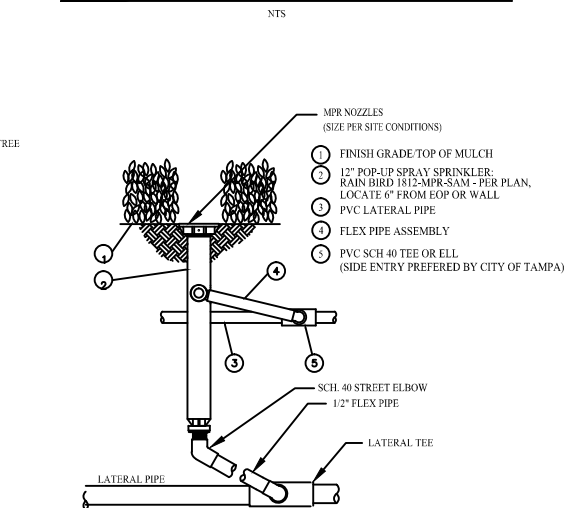
Sizes: 1/2" - 2"
Series 007 Double Check Valve Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. Only those cross-connections identified by local inspection authorities as non-health hazard shall be allowed the use of an approved double check valve assembly.

- Features**
- Ease of maintenance -- only one cover
 - Top entry
 - Replaceable seats and seat discs
 - Modular construction
 - Compact design
 - Cast bronze body construction -- 1/4" - 2"
 - Top mounted ball valve test cocks
 - Low pressure drop
 - No special tools required for servicing
 - 1/2" - 1" have tee handles

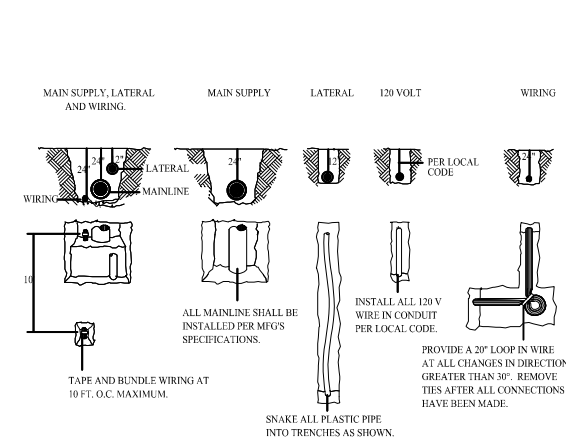
Specifications
A Double Check Valve Assembly shall be installed at each rotol location. The assembly shall consist of two positive sealing check modules with captured springs and rubber seat discs. The check module seats and seat discs shall be replaceable. Service of all internal components shall be through a single bronze or stainless steel access cover secured with stainless steel bolts. The assembly shall also include two resilient seated isolation valves; four top mounted, resilient seated test cocks. The assembly shall meet the requirements of ASSE Std. 1015 and AWWA Std. C510. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. Assembly shall be a Watts Series 007.

NOTE: CONTRACTOR TO SUBMIT SHOP DRAWING FOR THIS BACKFLOW PREVENTOR. FINAL SPEC AND INSTALLATION MUST BE APPROVED BY THE CITY PRIOR TO ORDERING.

WATTS - 2' BACKFLOW PREVENTOR

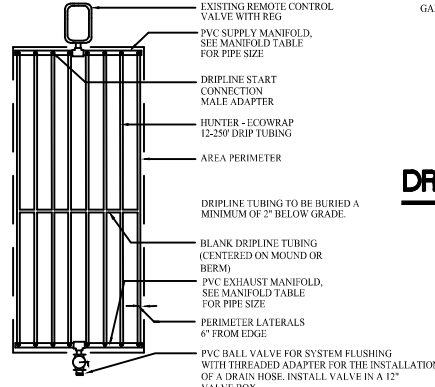
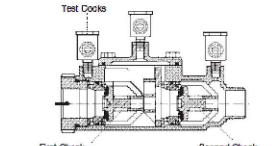
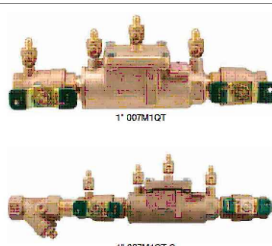


RAINBIRD 1812 SERIES POP-UP SPRAYHEAD

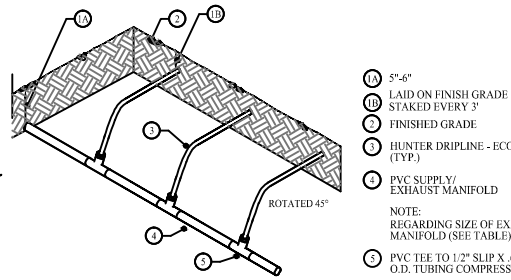


TRENCH DETAIL

TAPE AND BUNDLE WIRING AT 10 FT. O.C. MAXIMUM.
SNAKE ALL PLASTIC PIPE INTO TRENCHES AS SHOWN.



DRIP LINE - END FEED LAYOUT



DRIP LINE - SUPPLY/EXHAUST MANIFOLD

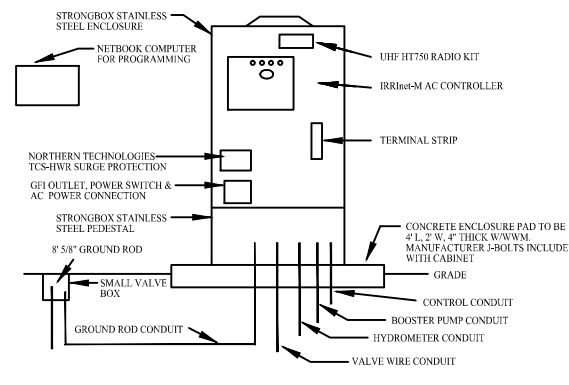
1. CONTROLLER SHALL BE (AS NOTED ON THIS SHEET AND PER PLAN FOR LOCATIONS) UNITS SHALL BE MOUNTED IN AN EXISTING OR NEW STRONGBOX 8B-1888 STAINLESS STEEL ENCLOSURE WITH PEDESTAL. INSTALLATION SHALL INCLUDE ASSEMBLY, HOT TEST (IN SHOP), RADIO PROGRAMMING AND OPTIMIZATION.

3. CONTACT CENTRAL CONTROL SYSTEMS, LTD - MARJIE GIEBEL P.O. BOX 8683 WOODLAND, CA 95716-8683 PH 530-662-6841 FAX 530-662-3776 E-MAIL: CCS@CENTRALSYSTEMS.COM FOR PURCHASE INFORMATION.

4. CONTROLLER (S) TO BE LOCATED NEAR A WATER METER CONFIRM WITH PARKS AND RECREATION IRRIGATION SUPERVISOR PRIOR TO INSTALLATION.

5. ALL WIRES NOT UNDER MAINLINE TO BE IN CONDUIT AND LOOSE.

6. WIRES BURIED UNDER MAINLINE ARE TO BE BUNDLED AND TAPED AT 20 FOOT INTERVALS.

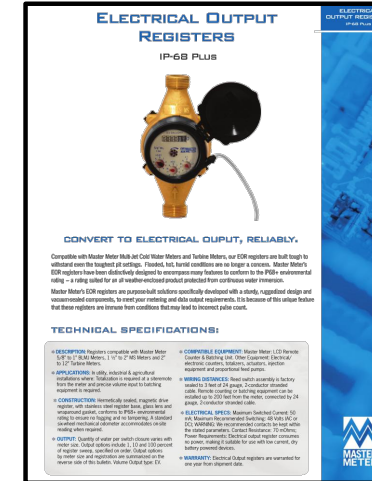


IRRI net-M AC CONTROLLER

SEE IRRIGATION PLANS FOR LOCATION OF CONTROLLER.

IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	SUPPLY MANIFOLD PIPE SIZE END AND CENTER FEED	EXHAUST MANIFOLD PIPE SIZE W/END FEED SUPPLY LINE	EXHAUST MANIFOLD PIPE SIZE W/END FEED SUPPLY LINE (TWO EXHAUST MANIFOLDS REQ'D)
0-6	3/4"	3/4"	3/4"
7-11	1"	1"	3/4"
12-19	1 1/4"	1 1/4"	1"
20-26	1 1/2"	1 1/2"	1 1/4"
27-42	2"	2"	1 1/4"
43-60	2 1/2"	2 1/2"	2"
61-90	3"	3"	2"

DRIPLINE SUPPLY AND EXHAUST MANIFOLD PIPE SIZE TABLE



MASTER METER - 2' FLOW METER

Central Control Systems, Ltd.
PO Box 8683, Woodland, CA 95776-8683
Ph 530-662-6841 Fax 530-662-3776 email: ccs@controlsystems.com

SPECS for: Motorola IRRInet-M Controllers with CM200 Radios

12 Station IRRInet-M Model #: IM-12-RX-S18BP-AHB-X
Includes:
12 Station Motorola IRRInet-M Irrigation Controller Assembly with UHF CM200 External Radio Kit. Unit comes mounted on a Strongbox Stainless Steel Back Panel. Assembly includes GFI Outlet/Power Switch, Northern Technologies 110V Surge Protector, #12 Relays and #2 - 8 Station/2 Input Valve Switchboards. Also includes assembly, hot test (in shop), radio programming & optimization.

24 Station IRRInet-M Model #: IM-24-RX-S18BP-AHB-X
Includes:
24 Station Motorola IRRInet-M Irrigation Controller Assembly with UHF CM200 External Radio Kit. Unit comes mounted on a Strongbox Stainless Steel Back Panel. Assembly includes GFI Outlet/Power Switch, Northern Technologies 110V Surge Protector, Relays and #3 - 8 Station/2 Input Valve Switchboards.



IRRI net - M- AC CONTROLLER

FOOTER DESIGN FOR CONTROLLER BOX SHALL BE PROVIDED IN A SHOP DRAWING BY THE CONTRACTOR. ALL SHALL BE STRUCTURALLY DESIGNED BY A REGISTERED ENGINEER.

REVISIONS:

NO.	DATE	DESCRIPTION

NICHOLS LANDSCAPE ARCHITECTURE INC.
P.O. Box 165
Lutz, FL 33548
813.948.8810 c.
www.nicholsla.com
877.246.3714 f.
LC2600399
cella@nicholsla.com



CITY OF TAMPA
5402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**
LEE PLACE TO SOUTHBOND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE:
IRRIGATION DETAILS

Celia R. Nichols, RLA, ALSA
LA0001518

Date

DATE: DECEMBER 17, 2015
DRAWN BY: CRN
REVIEWED BY: CRN 12/7/2015
NLA JOB NO: COTH14-1.01
SHEET NUMBER

ID-01

IRRIGATION NOTES:

GENERAL

- INSTALL A FULLY AUTOMATIC IRRIGATION SYSTEM FOR TREES, PALMS, SHRUBS, GROUNDCOVERS AND TURF AREAS SHOWN ON THE LANDSCAPE PLANS USING PRODUCTS AND INSTALLATION METHODS IN ACCORDANCE WITH THE CITY OF TAMPA'S IRRIGATION SPECIFICATIONS.
- WATER SOURCE: CONNECT TO EXISTING WATER MAINLINE FOR SHEETS 1-2 AT THE LEE PLACE PARK. A NEW METER WILL BE INSTALLED WITH THIS CONTRACT FOR SHEETS 3-5. THERE IS AN EXISTING METER EAST OF FLORIDA AVE.
- ELECTRICAL SOURCE: USE EXISTING POWER ON-SITE FOR SHEET 1. FOR SHEETS 3-5 USE NEW POWER AT HIGHLAND AVE., SHEET E-1. FOR THE AREA EAST OF FLORIDA AVENUE USE THE EXISTING POWER LOCATED AT FLORIDA AND HILLSBOROUGH AVENUE. COORDINATE THE LOCATION OF THE CONTROLLERS WITH THE CITY OF TAMPA IRRIGATION SUPERVISOR PRIOR TO CONNECTIONS.
- PERFORMANCE CRITERIA: PROVIDE A MAXIMUM OF 1.5 INCHES PER WEEK FOR PLANTED AREAS. SPACE HEADS TO CONFORM TO MANUFACTURER'S RECOMMENDATIONS. MAXIMUM VELOCITY 4 FEET PER SECOND. SIZE PIPE TO PROVIDE RECOMMENDED MINIMUM PRESSURE AT EACH HEAD. NO PIPE SHALL BE LESS THAN 3/4".
- WORKMANSHIP: IN ACCORDANCE WITH THE BEST PRACTICES THROUGHOUT THE INDUSTRY IN ACCORDANCE WITH THE STANDARDS RECOMMENDED BY THE MANUFACTURERS OF MATERIALS AND IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
- WARRANTY: GUARANTEE MATERIAL AND WORKMANSHIP AGAINST DEFECTS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.
- COORDINATION OF WORK: COORDINATE WORK WITH OTHER CONSTRUCTION ACTIVITIES.
- UTILITIES: PRIOR TO EXCAVATION, VERIFY IN THE FIELD THE LOCATION AND DEPTH OF NEW AND EXISTING UTILITIES AND TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH UTILITIES. REPAIR TO ORIGINAL CONDITION, UTILITIES AND OTHER WORK DAMAGED BY CONTRACTOR'S CONSTRUCTION. IMMEDIATELY NOTIFY THE OWNER OF ANY DAMAGE. CALL 1-800- SUNSHINE TO LOCATE ALL UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- BORING LOCATIONS: BORINGS SHALL BE AS SHOWN ON PLANS AND INSTALLED PER F.D.O.T. BORES REQUIRE A PERMIT FROM F.D.O.T. FOR SLEEVES. ENSURE SLEEVE IS 2X LARGER THAN THE IRRIGATION PIPES THAT IT ENCLOSES. ALL BORE AND SLEEVE LOCATIONS SHALL BE MARKED IN THE FIELD WITH A PERMANENT MARKER ON THE CURB OR SIDEWALK. METHOD SHALL BE AS DIRECTED BY F.D.O.T. AND THE CITY'S REPRESENTATIVE IN ADVANCE.
- POP-UP AND ROTOR SPRINKLER HEADS SHALL BE INSTALLED:
 - 6" FROM EDGE OF CURB OR SIDEWALK.
 - 12" TO 18" FROM EDGE OF PAVEMENT (WHERE NO CURB EXISTS).
 - FLUSH WITH FINISH GRADE.
- FIELD ALTERATIONS MADE THAT DO NOT CONFORM TO THE IRRIGATION CONTRACT DRAWING MUST BE IN THE BEST INTEREST OF UTILITY CONFLICTS, PLANT MATERIAL, SOD AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED, BY THE CITY'S REPRESENTATIVE, NOT TO CONFORM WITH THIS CRITERIA WILL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST METHOD TO COMPLETE A FIELD ALTERATION, THE CONTRACTOR SHALL CONTACT THE CITY'S REPRESENTATIVE, IN WRITING FOR APPROVAL PRIOR TO CHANGE.
- THE CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE TO APPLICABLE REGULATIONS FOR IRRIGATION INSTALLATION AND ANY ASSOCIATED PERMITTING PRIOR TO START OF WORK AND THROUGHOUT WORK.
- PIPING ON THE PLANS IS SHOWN DIAGRAMMATICALLY FOR CLARITY. PIPES SHALL BE ROUTED TO MIN. PIPE LENGTH & AVOID EXISTING LANDSCAPE ELEMENTS AND UTILITIES. DESIGN MODIFICATIONS SHALL ONLY BE MADE AS NECESSARY TO MEET FIELD CONDITIONS AND ONLY UPON APPROVAL OF THE CITY OF TAMPA'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ADJUSTMENT OF THE SPRINKLERS ARC AND RADIUS TO ASSURE 100 PERCENT COVERAGE, AND ELIMINATE ANY OVERSPRAY ON SIDEWALKS OR ROADWAYS.
- WIRING FROM THE IRRIGATION CONTROLLER TO THE REMOTE CONTROL VALVES SHALL BE UF-14/1 DIRECT BURIAL CABLE. COLOR SHALL BE PER CITY OF TAMPA SPECS. INCLUDE MAXICOM CABLE FROM FLOW METER TO CONTROLLER. IMPORTANT: ALL WIRING NOT UNDER MAINLINE TO BE IN CONDUIT.
- ALL ABOVE GROUND, FIXED POWER, OR OTHER, WOOD POST OR PVC RISERS SHALL BE PAINTED BLACK.
- DURING INSTALLATION, CONTRACTOR TO REMOVE ALL EXISTING EXPOSED, IRRIGATION PIPES, WIRES, CONDUIT, HARDWARE, ETC. ALL MATERIALS FROM THIS WORK SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF, ON A WEEKLY BASIS.

SUBMITTALS

- AS-BUILT DRAWINGS: PROJECT RECORD DRAWINGS AND SPECIFICATIONS SHALL BE KEPT UP-TO-DATE DAILY. DRAWINGS SHALL INCLUDE ALL HORIZONTAL AND VERTICAL DEVIATIONS FROM THE CONTRACT DOCUMENTS MADE DURING CONSTRUCTION. PLANS SHALL BE PREPARED IN AUTOCAD @ 20 SCALE, 24X36 SIZE FORMAT, AND COMPLETE AT WALK-THRU.
 - INDICATE ALL APPROVED FIELD CHANGES, DIMENSIONS, LEGENDS, PIPE SIZES, AND VALVE NUMBERS.
 - ALL PIPING SHALL BE DIMENSIONED, SIZES DRAWN TO SCALE AND SHOW; CONTROLLERS, METERS, AND REMOTE CONTROL VALVES AND ISOLATION VALVES. ISOLATION VALVES SHALL HAVE TWO MEASUREMENTS FROM FIXED OBJECTS.
 - A MINIMUM TWO (2) POINTS OF REFERENCE SHALL BE PROVIDED FOR EACH DIMENSION.
- OPERATION AND MAINTENANCE INSTRUCTIONS: WITHIN ONE WEEK PRIOR TO FINAL INSPECTION SUBMIT 2 COPIES OF TYPED OPERATING INSTRUCTIONS FOR THE MOST EFFICIENT OPERATION AND MAINTENANCE OF THE SYSTEM, TOGETHER WITH PARTS LISTS COVERING ALL OPERATING EQUIPMENT, BOUND INTO A FOLDER.
- WARRANTY: SUBMIT SYSTEM WARRANTY LETTER AND PRODUCT PAPERWORK AT THE COMPLETION OF WORK.

PRODUCTS

- MATERIALS: SHALL BE NEW AND TRUE TO MANUFACTURER'S SPECIFICATIONS AND DIMENSIONS.
- PIPE: SCHEDULE 40 OR 80 PVC OR HDPE CONTINUOUSLY MARKED WITH MANUFACTURER, CLASS, TYPE, AND SIZE. TO BE USED FOR ALL LATERALS AND PIPING ON PROJECT.
- WATER: USE EXISTING POTABLE WATER

- SLEEVING & BORES: CONTRACTOR TO OBTAIN PERMIT FROM F.D.O.T. BORES SHALL MEET ALL F.D.O.T. REQUIREMENTS. DIRECTIONAL BORES SHALL BE DONE WITH HDPE PIPE. OTHER SLEEVES FOR UNDER SIDEWALKS SHALL BE SCHED. 40 PIPE AND SIZED AT 2 X THE DIAMETER OF THE ENCASED PIPE.
- FITTINGS: MINIMUM SCHEDULE 40, TYPE 1, PVC.
- SPRINKLERS, BUBBLERS AND DRIP: IRRIGATION HEADS: HUNTER ROTORS, RAINBIRD MPR FIXED SPRAYHEADS AND BUBBLERS, HUNTER ECOWRAP DRIP. INSTALL ALL PER DETAILS SHOWN ON SHEET ID-01 AND SPECIFIED ON LEGEND IR-01. SUPPLY 12" POP-UP IN SHRUBS AND GROUNDCOVER AREAS. PROVIDE MATCHED PRECIPITATION RATE NOZZLES FOR SPRAY HEADS. STAKE ALL BUBBLERS NEAR TREE TRUNK.
- AUTOMATIC CONTROL VALVES: IRRITROL 200 SERIES 1.5" AND 2" VALVES.
- VALVE BOXES: AMETEK 170106 16"x10" PLASTIC WITH GREEN LIDS STAMP-MARKED "IRRIGATION".
- CONTROLLER: IRRINET - M- AC PER PLANS OR EXISTING WITH NEW MODULE, SIZED TO ACCOMODATE NEW ZONES ON EACH * CONTRACTOR SHALL INSTALL MOTOROLA ICC CONTROLLER IN S.S. CABINET, SEE DETAIL SHEET ID-01 FOR FULL SPECIFICATIONS. MOUNT W/ S.S. BOLTS ON MIN. 4" THICK 3000 PSI CONCRETE BASE- REINF. PER ENGINEERED SHOP DRAWINGS. LOCATE CONTROLLER'S PER PLANS AND CITY OF TAMPA'S REPRESENTATIVE IN THE FIELD. CONTRACTOR SHALL SUBMIT ENGINEERED SHOP DRAWINGS FOR THE CONCRETE BASE. DESIGN SHALL ADHERE TO ALL F.D.O.T. REQUIRMENTS AND LOCAL CODES FOR WIND LOADS. THESE PLANS SHALL BE PREPARED AND SIGNED AND SEALED BY A PROFESSIONAL REGISTERED FLORIDA P.E. PRIOR TO SHOP DRAWING SUBMITTAL.
- ELECTRIC: REFER TO ELECTRICAL PLANS FOR NEW POWER SOURCE. CONNECT TO EXISTING AS PER PLANS. GROUNDED WITH GROUND RODS TO 10 MEGS, OR PER THE NATIONAL ELECTRICAL STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
- OTHER: USE EXISTING BACKFLOW PREVENTORS, FLOWMETERS, MASTER METERS. INSTALL NEW AS NEEDED PER PLANS.
- METER: METER SHALL BE SIZED TO ENSURE NO LESS THAN 4 PSI LOSS FROM VALVE TO FIRST HEAD ON EACH ZONE. DESIGN IS BASED UPON 2" METERS (AVG.), WITH 60 GPM, AND 65 PSI AS EXISTING PARAMETERS.
 - * CONTRACTOR TO VERIFY THAT ONE NEW METER AS NOTED ON THE PLANS HAS BEEN PERMITTED AND INSTALLED PER CITY'S SPECIFICATIONS.
- BACKFLOW PREVENTOR: SHALL MEET PER CITY OF TAMPA STANDARDS. INSTALL ONE AFTER EACH METER CONNECTION.
- CEMENT- PRODUCT AND INSTALLATION SHALL BE AS PER CITY'S REPRESENTATIVE'S DIRECTION & INSTALLED PER MANUFACTURER.

EXECUTION

- INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- EXCAVATION AND BACKFILLING: EXCAVATE TRENCHES TO PROVIDE MINIMUM COVER OVER PIPING OF 18" IN PLANT BEDS AND 24" BENEATH PAVING. REMOVE AND DISPOSE OF ANY EXPOSED MATERIALS FROM OLD IRRIGATION SYSTEM. BACKFILL WITH CLEAN MATERIAL AND COMPACT, RESOD WITH BAHIA AS NECESSARY FOR REPAIRS, OR REMULCH BEDS.
- PLASTIC PIPE: INSTALL AS RECOMMENDED BY MANUFACTURER, USING PRIMER AND GLUE PER CITY OF TAMPA SPECIFICATIONS.
 - * PIPING SHALL BE GROUPED TO MINIMIZE TRENCHING, AND LOCATED TO MINIMIZE PIPE LENGTH. LOCATIONS ARE DIAGRAMMATIC AND SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL USE THIS PLAN SET FOR DESIGN. FIELD ADJUSTMENTS SHALL BE MADE TO MEET ACTUAL CONDITIONS AND TO MINIMIZE PIPE LENGTHS AND CONFLICTS WITH UTILITIES OR AS-BUILT CONDITIONS.
- SPRINKLER HEADS: INSTALL AS DETAILED. ADJUST HEADS FOR PROPER THROW. PROVIDE NOZZLES PER PLANS/ SITE CONDITIONS.
 - * NO OVERSPRAY ON BUS SHELTERS, ROADWAY SURFACES OR SIDEWALKS OR WALLS.
- AUTOMATIC CONTROL VALVES: LOCATE IN SQUARE GROUPINGS AND PARALLEL TO ONE ANOTHER, LOCATE IN A LOW VISABLE AREA.
 - * INSTALL VALVE BOX OVER A 1 CUBIC FOOT OF CLEAN PEA-SIZED GRAVEL OVER THE TOP OF FILTER FABRIC TO CREATE A SUMP FOR EACH VALVE. PROVIDE A MULCH BED FOR ENTIRE VALVE MANIFOLD (GROUPING). MULCH TO BE PLACED OVER A CITY APPROVED WEED BARRIER FABRIC. NEW ALUMINUM EDGING BY PERMALOC 'CLEANLINE' 1/8" X 3" - FINISH; BL INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE A 10" EXPANSION COIL OF ELECTRICAL WIRE AT EACH VALVE TO CONTROL. MAKE ALL ELECTRICAL SPLICES PER CITY OF TAMPA.
- IF WIRES ARE BURIED, UNDER MAINLINE THEN BUNDLE MULTIPLE WIRES AND TAPE TOGETHER AT NOT OVER 20' INTERVALS. INSTALL CONTROL WIRING SPLICES IN VALVE BOXES AND SET FLUSH WITH FINISHED GRADE.. NO SPLICES IN MAXICOM CABLE.

LABELS:

- NUMBER EACH ZONE VALVE BOX ON UNDERSIDE AND TOPSIDE OF VALVE BOX COVER WITH A BLACK WATERPROOF LABEL, FOR REFERENCE. NUMBERS SHALL MATCH THE ZONE NUMBERS ON THE DRAWING.
 - NUMBER EACH ZONE VALVE CONTROL WIRE AT THE TO MATCH THE ZONE NUMBER ON THE DRAWINGS. CONTROLLER WITH A WATERPROOF MARKER AND TAGS,
 - ALL WIRING NOT UNDER MAILINE TO BE IN CONDUIT AND AVAILABLE FOR INSPECTION.
- ALL PROGRAMMING AND FINAL WIRING TERMINATIONS TO BE PERFORMED BY THE CITY OF TAMPA'S IRRIGATION SUPERVISOR.

HYDROSTATIC AND LEAKAGE TESTING

- NOTIFY THE CITY'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IN WRITING AT LEAST 72 HOURS PRIOR TO EACH OF THE FOLLOWING TESTING MILESTONES: FIRST; START OF WORK, SECOND; HEAD LAYOUT, LAST; FINAL WALK-THRU.

MAINTENANCE

- MAINTAIN THE IRRIGATION SYSTEM UNTIL FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE WORK, MATERIALS AND REPLACEMENTS NECESSARY TO INSURE A COMPLETE AND PROPERLY OPERATING SYSTEM. SEE MAINTENANCE PLAN.
- IMPORTANT: CONTRACTOR SHALL HAND-WATER ALL NEW BAHIA SOD OR OTHER MATERIAL NOT COVERED BY IRRIGATION USING A WATER TRUCK OR OTHER MEANS AS PREVIOUSLY APPROVED BY THE CITY'S REPRESENTATIVE. HAND WATER UNTIL PROJECT ACCEPTANCE OR OTHER STATED APPROVAL DATE.

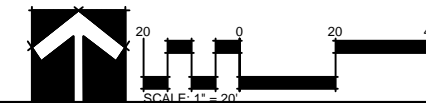
CLEAN-UP

UPON COMPLETION AND PRIOR TO INSPECTION OF THE WORK, CLEAR THE SITE OF DEBRIS, SUPERFLUOUS MATERIALS AND EQUIPMENT.

INSPECTION AND WARRANTY

AT THE CONCLUSION OF IRRIGATION WORK, THE CITY'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT WILL CONDUCT A FULL INSPECTION OF THE ENTIRE IRRIGATION SYSTEM OPERATING ZONE BY ZONE WITH THE CONTRACTOR TO DETERMINE IF SYSTEM IS PERFORMING PER PLANS AND SPECIFICATIONS. CONTRACTOR SHALL CORRECT ALL PUNCHLIST ITEMS BEFORE A RE-INSPECTION. WARRANTY OF SYSTEM SHALL BEGIN 1 YEAR FROM DATE OF FINAL ACCEPTANCE BY THE CITY'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.

NOTE: FDOT WILL NOT ALLOW FOR ANY OVERSPRAY ON THE ROADWAY SYSTEM, THIS SHALL BGE REVIEWED AND CORRECTED BY THE CONTRACTOR BEFORE CLOSE OUT AND ACCEPTANCE.



REVISIONS:	NO.	DATE	DESCRIPTION

NICHOLS
LANDSCAPE
ARCHITECTURE INC.

P.O. Box 165
Lutz, FL 33548
813.948.8810 c.
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813.298.8880 c.
cella@nicholsla.com
877.246.3714 f.
LC2600399



CLIENT: **CITY OF TAMPA**
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**

LEE PLACE TO SOUTHBOUND OVERPASS OF I-75
CONTRACT NO. 15-C-0001

SHEET TITLE: **IRRIGATION NOTES**

Celia R. Nichols, RLA, ALSA
LA0001518

DATE:	DECEMBER 17, 2015
DRAWN BY:	CRN
REVIEWED BY:	CRN 12/5/2015
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	

ID-02

SPECIFICATIONS DIVISION 16000

I. GENERAL

1. All materials shall be made in the USA, new, of the best grade, and bear a U.L. label. All workmanship shall be of the highest standards.
2. All work to be performed in accordance with the Florida Building Code 2014 ed., prevailing local codes, and the National Electrical Code, 2011 ed. Contractor shall secure and pay for all permits.
3. Shop drawings shall be submitted for approval for the following items:
 - A. Loadcenters
 - B. Wiring devices.
 - C. Other items requested by the architect.
4. Submittals/shop drawings shall bear a stamp by the electrical subcontractor and the general contractor indicating they have been reviewed and that the equipment proposed is compatible without exception with the contract documents. Submittals/shop drawings without such stamp shall be returned without review by the Engineer.
5. All materials and installation to be guaranteed against defects for a period of one year from date of completion and final acceptance.
6. Contractor shall maintain an up to date set of drawings on site at all times reflecting as constructed changes. Drawings shall be turned over to the architect at the time of final acceptance.
7. Contractor shall prepare 3 bound copies of all approved submittals, maintenance instructions, and other data the architect may request and submit to the architect at the time of final acceptance.
8. Contractor shall provide engraved phenolic labels for all major pieces of electrical equipment including but not limited to panelboards, disconnect switches, systems panels, transformers, switchboards, etc.
9. In all cases the word "provide" shall mean to both furnish and install.

II. RACEWAYS

1. Direct burial in earth - Schedule 40 PVC (3/4" minimum). Provide 24" minimum cover for runs below finished grade outside of buildings unless otherwise noted.
2. Exposed:
 - A. Portions of service entrance - Rigid steel.
 - B. Other areas - E.M.T.
3. Fittings:

A. For E.M.T. - Die-cast, set-screw (compression type where exposed to weather).

III. WIRE AND CABLE

1. All wire to be copper unless specifically noted otherwise on the drawings. Minimum size to be #12 A.W.G. All conductors to be installed in conduit.
2. Insulation:
 - A. Service entrance - Type XHHW.
 - B. #12 and larger - Type THHN/THWN.
3. Splices in feeders will not be permitted.
4. Color coding as follows shall be employed:

Voltage	Phase A	Phase B	Phase C	Neutral
120/240	Black	Red	****	White
5. Contractor shall provide a green grounding conductor in all raceways (except service lateral) whether indicated on the drawings or not. In general these conductors have been shown in feeders and underground conduits on the drawings.

IV. WIRING DEVICES

1. Duplex Receptacles - 20 Amp, 120 volt, Hubbell GFTWRST20W.
2. Exposed receptacles shall be in 4" square boxes with industrial covers.
3. Devices installed outdoors to be weather resistant type.

V. EQUIPMENT WIRING

1. Verify all equipment ratings prior to connection and notify architect of any discrepancy prior to proceeding with connection of same.
2. Contractor shall be responsible for coordination of all materials interfaced, i.e. lug size versus conductors or other similar items.

VI. DISTRIBUTION EQUIPMENT

1. Loadcenters:
 - A. 120/240 Volt circuit breaker loadcenters - Square D QO or equivalent. Refer to fault current study (BUS AFC) on drawings for minimum AIC rating.
 - B. Provide each panel with an engraved phenolic nameplate and typewritten directory card in plastic pocket.
 - C. Provide a ground bus in all panels.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	OUTLET, JUNCTION OR PULL BOX
	DRIVEN GROUND UON
	CONDUIT IN SLAB OR UNDERGROUND (1)
	PANELBOARD 208Y/120V OR 240V/120V, TOP 84" AFF
	CONDUIT RUN UP
	CONDUIT RUN DOWN
	CONDUIT STUB
	REFER TO LIKE NUMBERED NOTES

ABBREVIATIONS

BFG	BELOW FINISHED GRADE
C	CONDUIT
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT INTERRUPTER
(N)	NEW
PNL	PANEL
SPEC	SPECIFICATIONS
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

LEGEND NOTE

- (1) CIRCUIT AND NEUTRAL SHARING DESIGNATIONS ARE SHOWN ON HOMERUNS AND ARE TO BE CONSISTENT THROUGHOUT CIRCUITS. WHERE MULTIPLE NEUTRALS ARE INSTALLED, INTERCHANGE OF NEUTRALS IS PROHIBITED. ALL RACEWAYS CONTAIN AT MINIMUM (2) #12 CURRENT CARRYING CONDUCTORS PLUS (1) #12 EQUIPMENT GROUND IN 1/2" C, UON (3/4" C WHERE INSTALLED BELOW GRADE).

LEGEND GENERAL NOTES

- (1) ALL MOUNTING HEIGHTS ARE TO CENTERLINE UON
- (2) ALL SYMBOLS MAY NOT BE USED

REVISIONS:	NO.	DATE	DESCRIPTION

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CLIENT: **CITY OF TAMPA**
3802 W. COLLEMBUS DRIVE
TAMPA, FL 33607

PROJECT NAME:
**HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT
LEB PLACE TO SOUTHERND OVERPASS OF I-275**

CONTRACT NO. **15-C-0001**

SHEET TITLE:
LEGEND AND SPECIFICATIONS



Phillip L. Cochran
P.E. No. 50716

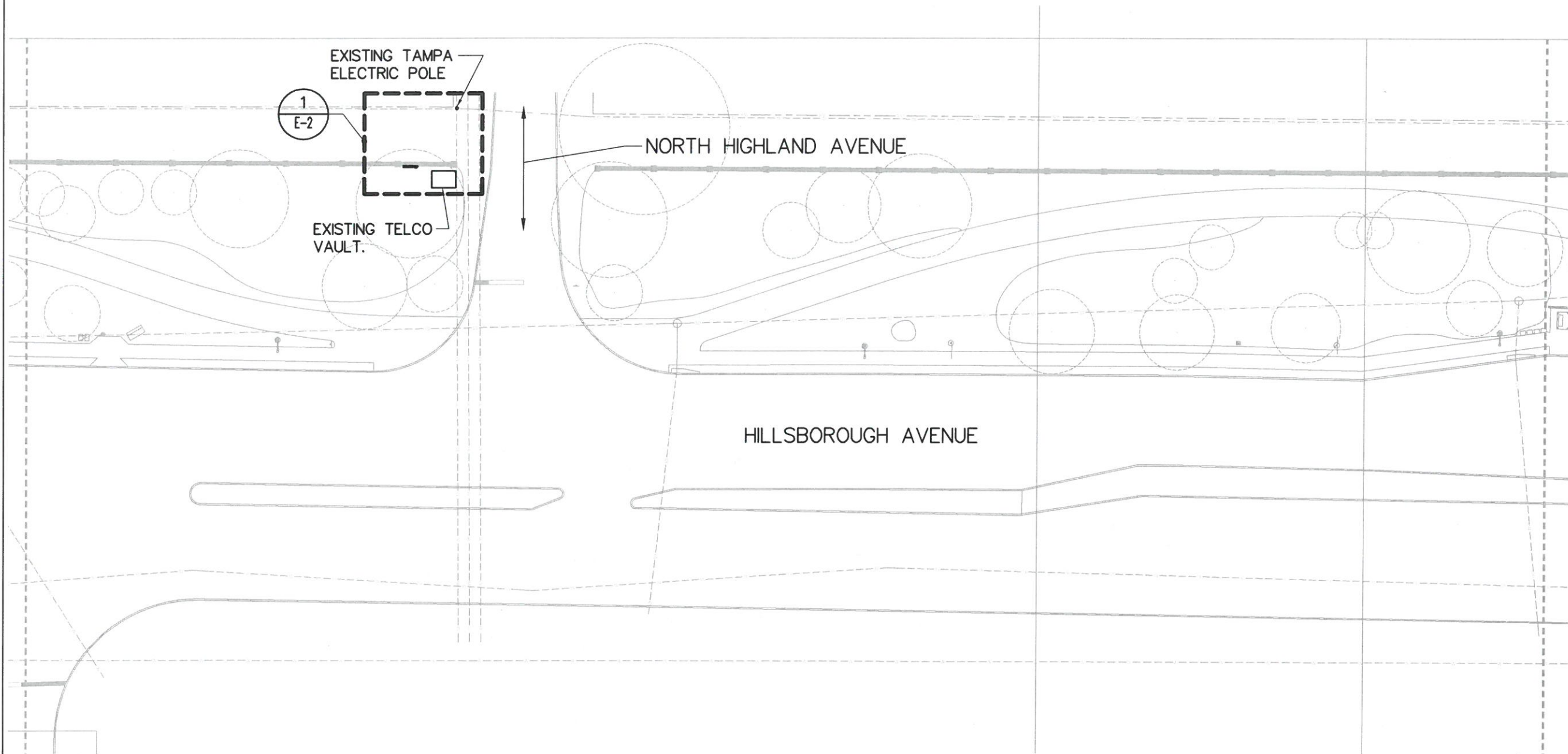
Job Number: 40028



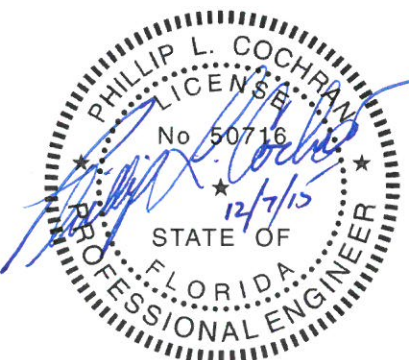
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SUBMITTAL DATE:	DECEMBER 7, 2015
DRAWN BY:	PK
REVIEWED BY:	PC
N/A JOB NO:	COTH14-1.01
SHEET NUMBER	E-0

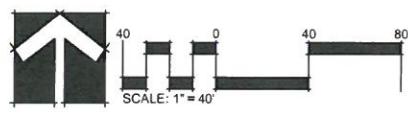
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PARTIAL SITE PLAN



Phillip L. Cochran
P.E. No. 50716



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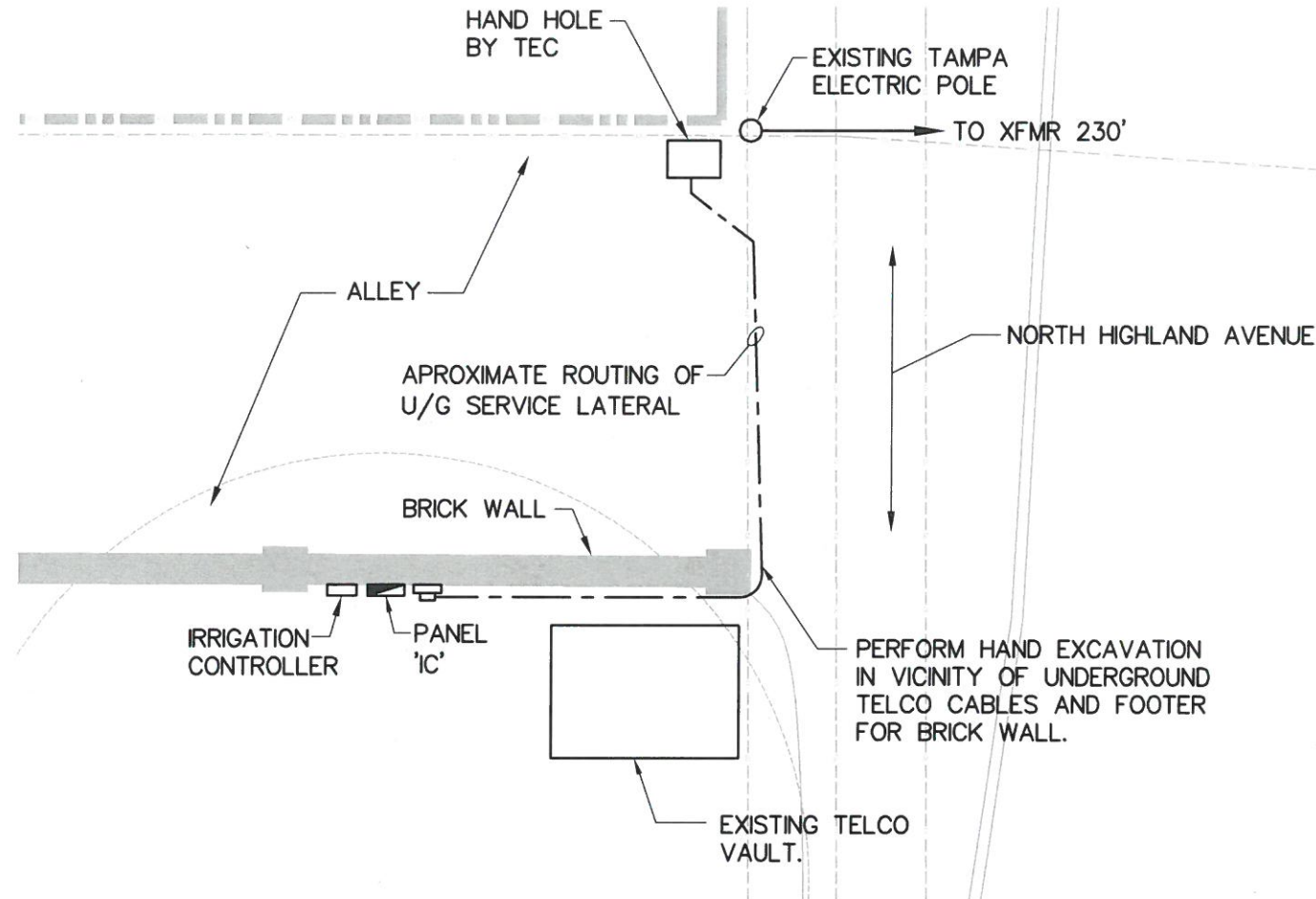
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CLIENT: **CITY OF TAMPA**
5902 W. COLLEMBUS DRIVE
TAMPA, FL 33607
PROJECT NAME: **HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**
125 FLACE TO SOUTHBOROUGH OVERSIGHTS OF I-25
CONTRACT NO. 15-C-0001
SHEET TITLE: **PARTIAL SITE PLAN**

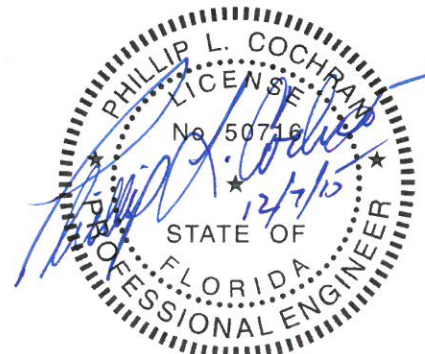
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DRAWN BY:	PK
REVIEWED BY:	PC
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	E-1

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PARTIAL ENLARGED SITE PLAN

Scale: 1/8"=1"



Phillip L. Cochran
P.E. No.50716



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Job Number: 40028

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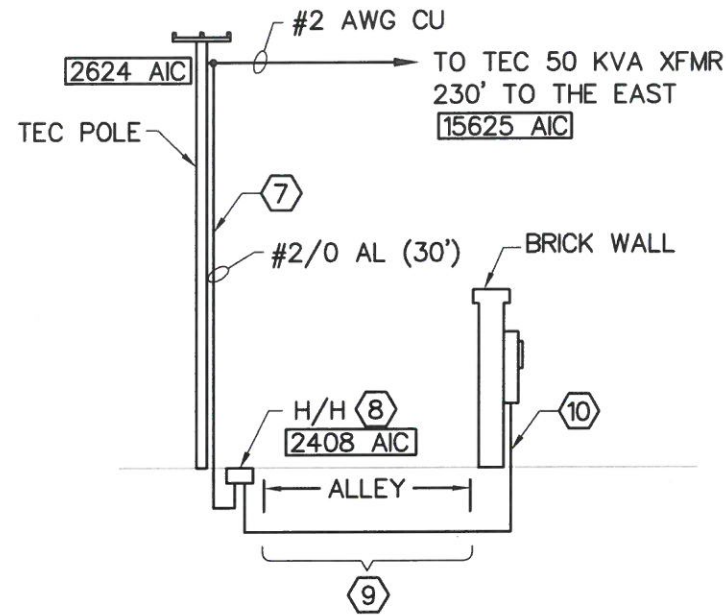
CLIENT: **CITY OF TAMPA**
5002 W. COLLINGS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE
GATEWAY ENHANCEMENT**
LESS PLACES TO SOUTHERND OVERPASS OF I-25
CONTRACT NO. 15-C-0001

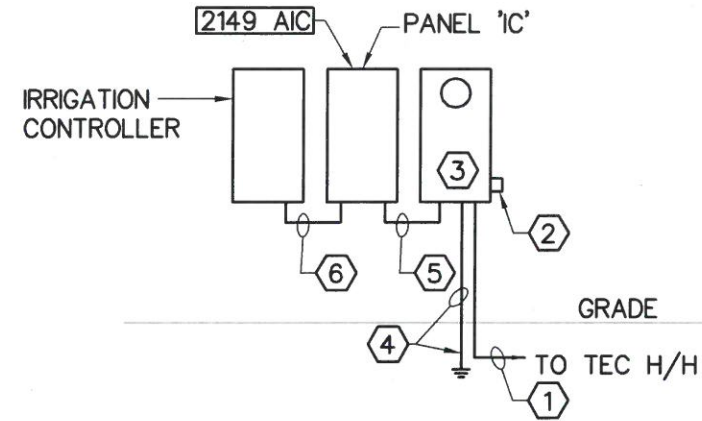
SHEET TITLE: **PARTIAL ENLARGED SITE PLAN**

SUBMITAL DATE:	DECEMBER 7, 2015
DRAWN BY:	PK
REVIEWED BY:	PC
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	E-2

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RISER DIAGRAM -SECTION VIEW (LOOKING EAST)
 SCALE: NONE



RISER DIAGRAM
 SCALE: NONE

NOTES

1. SERVICE ENTRANCE CONDUCTORS CONSISTING OF 3 #1 AWG CU IN 2" C. USE GRC ABOVE GRADE.
2. TYPE 1 SPD-SQD SDSA1175 OR EQUIVALENT.
3. 100A METER BASE FOR 120/240V, 1 PH SERVICE.
4. #4 GROUNDING ELECTRODE CONDUCTOR. PROVIDE NON-METALLIC MECHANICAL PROTECTION ABOVE GRADE. PROVIDE CADWELD (EXOTHERMIC) CONNECTION TO DRIVEN GROUND ROD - 3/4"x10'-0". PROVIDE ADDITIONAL ROD PER NEC 250.53 IF REQUIERED. SUBMIT GROUND TEST REPORT TO ENGINEER.
5. PANEL FEEDER TO CONSIST OF 3 #1 AWG CU AND 1 #4 EG IN 1-1/2" C.
6. 15A BRANCH CIRCUIT FOR IRRIGATION CONTROLLER. PROVIDE GFCI PROTECTION. BRANCH CIRCUIT CONDUCTOR TO CONSIST OF 3 #14 AWG CU IN 1/" C.
7. COORDINATE WITH TECO FOR RESPONSIBILITY OF CONDUIT AND CONDUCTORS ON TEC POLE.
8. HAND HOLE ON BASE OF EXISTING POLE PROVIDED BY TECO.
9. UNDER GROUND CONDUIT TO FEED SERVICE FROM TECO HAND HOLE. COORDINATE INSTALLATION OF CONDUIT ACROSS ALLEY WITH CITY OF TAMPA. BURIAL DEPTH MINIMUM 36". DO NOT PEN CUT DITCH WITHOUT CITY APPROVAL. DIRECTIONAL BORE IS RECOMMENDED. FINAL CONECTION INSIDE HAND HOLE PROVIDED BY TECO.
10. EC IS ADVISED OF BURIED TELCO SERVICES IN CLOSE PROXIMITY OF WORK.



Phillip L. Cochran
 P.E. No.50716

Job Number: 40028

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CLIENT: **CITY OF TAMPA**
 3942 W. COLLEMBUS DRIVE
 TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
 1255 PLACE TO SOUTHBOND OVERPASS OF I-275
 CONTRACT NO. 12-C-0001

SHEET TITLE: **POWER RISER DIAGRAM**

SUBMITTAL DATE:	DECEMBER 7, 2015
DRAWN BY:	PK
REVIEWED BY:	PC
NLA JOB NO:	COTH14-1.01
SHEET NUMBER	

PANEL 'IC'							SURFACE MOUNTED, NEMA 3R						
120/240 VOLT, 1 PHASE, 3 WIRE							10,000 AIC						
100A MCB - SERVICE ENTRANCE RATED							PROVIDE WITH GROUND BAR.						
CKT	DESCRIPTION	BREAKER		VOLT	KVA	LOAD CODE	CKT	DESCRIPTION	BREAKER		VOLT	KVA	LOAD CODE
		TRIP	POLE						TRIP	POLE			
1	IRRIGATION CONTROLLER	15	1	120	0.5	7	2	SPACE					
3	SPACE						4	SPACE					
5	SPACE						6	SPACE					
7	SPACE						8	SPACE					
9	SPACE						10	SPACE					
11	SPACE						12	SPACE					
13	SPACE						14	SPACE					
15	SPACE						16	SPACE					

LOAD CODES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD
1. LIGHTING	0	1.25	0.0
2. HEAT	0	1.00	0.0
3. AIR CONDITIONING	0	1.00	0.0
4. MOTORS	0	25% OF LARGEST MOTOR	0.0
5. RECEPTACLES	0	NEC 220.44	0.0
6. MISC. CONTINUOUS LOADS	0	1.25	0.0
7. MISC. NON-CONTINUOUS LOADS	1	1.00	0.5
8. KITCHEN EQUIPMENT (6 PIECES)	0	0.65	0.0
9. HOTEL ROOM LOADS	0	NEC 220.42	0.0
	*****	*****	*****
	1		0.5
			0.0

			0.5 TOTAL DEMAND LOAD
			VOLTAGE 240

			PHASE 1

			2 AMPS

REVISIONS:	NO.	DATE	DESCRIPTION

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CLIENT: **CITY OF TAMPA**
3942 W. COLLINGS DRIVE
TAMPA, FL 33607

PROJECT NAME: **HILLSBOROUGH AVENUE GATEWAY ENHANCEMENT**
LESS PLAZA TO SOUTHWEST OVERPASS OF I-25
CONTRACT NO. 15-C-00001

SHEET TITLE: **PANEL SCHEDULES**

PHILLIP L. COCHRAN
LICENSED PROFESSIONAL ENGINEER
No. 50716
12/7/15
STATE OF FLORIDA

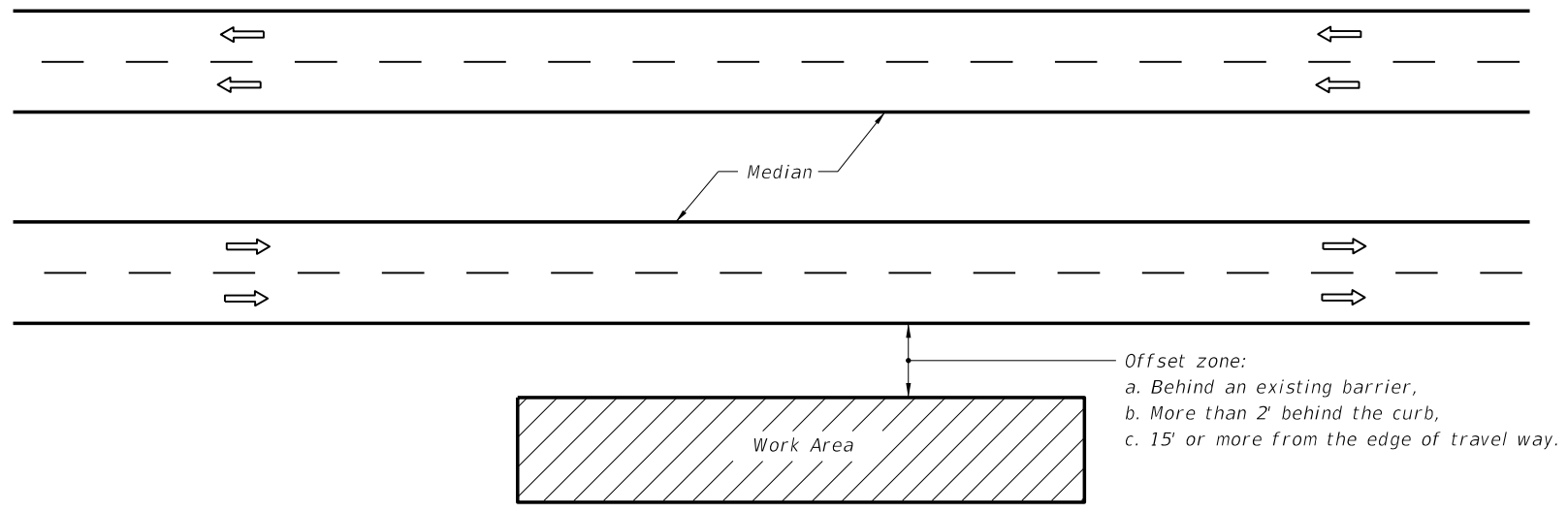
Phillip L. Cochran
P.E. No.50716

Job Number: 40028

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SHEET NUMBER



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GENERAL NOTES

1. If the work operation (excluding establishing and terminating the work area), requires that two or more work vehicles cross the offset zone in any one hour, traffic control will be in accordance with Index No. 612.
2. No special signing is required.
3. This index also applies when work is being performed on a multilane undivided highway.
4. This index also applies to work performed in the median behind an existing barrier or more than 15' from the edge of travel way, both roadways. Work performed in the median behind curb and gutter shall be in accordance with Index No. 612.
5. When a side road intersects the highway within the work area, additional traffic control devices shall be placed in accordance with other applicable TCZ Indexes.
6. When construction activities encroach on a sidewalk, refer to Index No. 660.
7. For general TCZ requirements and additional information, refer to Index No. 600.


SYMBOLS

-  Work Area
-  Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE BEHIND AN EXISTING BARRIER, MORE THAN 2' BEHIND THE CURB, OR 15' OR MORE FROM THE EDGE OF TRAVEL WAY.

5/21/2014 7:58:52 AM

LAST REVISION 07/01/05	REVISION	DESCRIPTION:	 2015 DESIGN STANDARDS	MULTILANE WORK OUTSIDE SHOULDER	INDEX NO. 611	SHEET NO. 1 of 1
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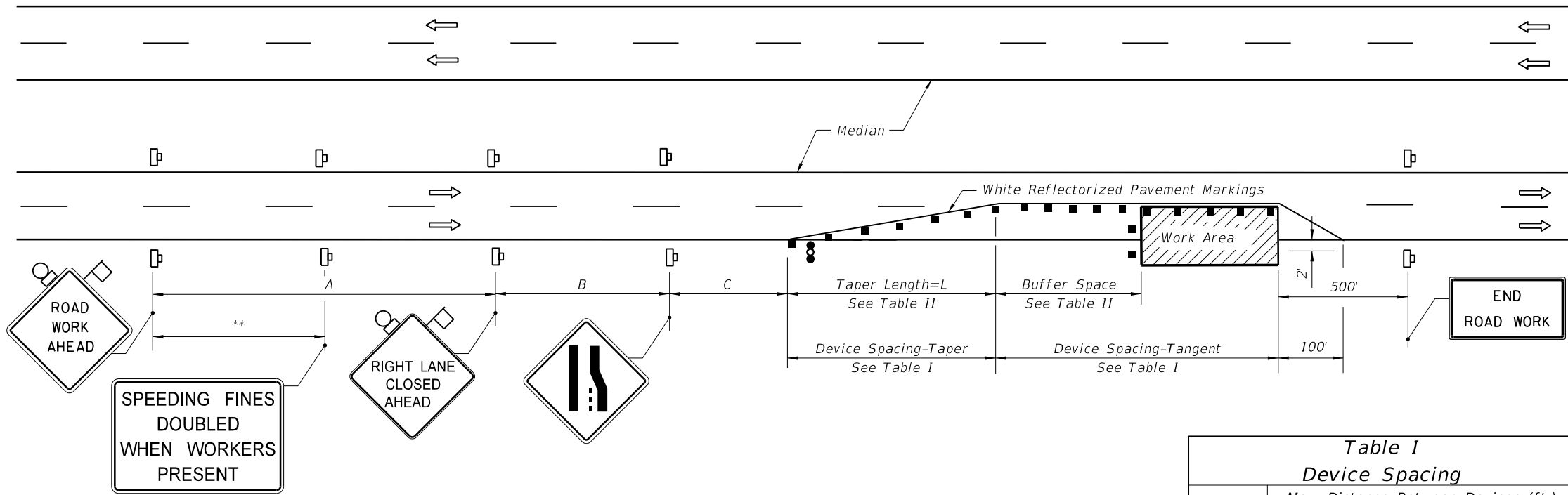


Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (12' Lateral Transition)	
		Dist. (ft.)	Notes (Merge)
25	155	125	$L = \frac{WS^2}{60}$
30	200	180	
35	250	245	
40	305	320	
45	360	540	$L = WS$
50	425	600	
55	495	660	
60	570	720	
65	645	780	
70	730	840	

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use Where:

L = Length of taper in feet
 W = Width of lateral transition in feet
 S = Posted speed limit (mph)

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

DURATION NOTES

- Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
- For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
 - Speed limit is 45 mph or less.
 - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Volume and complexity of the roadway has been considered.
 - The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
- For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
*55 mph or greater	2640	1640	1000

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

The same applies to undivided highways with the following exceptions:

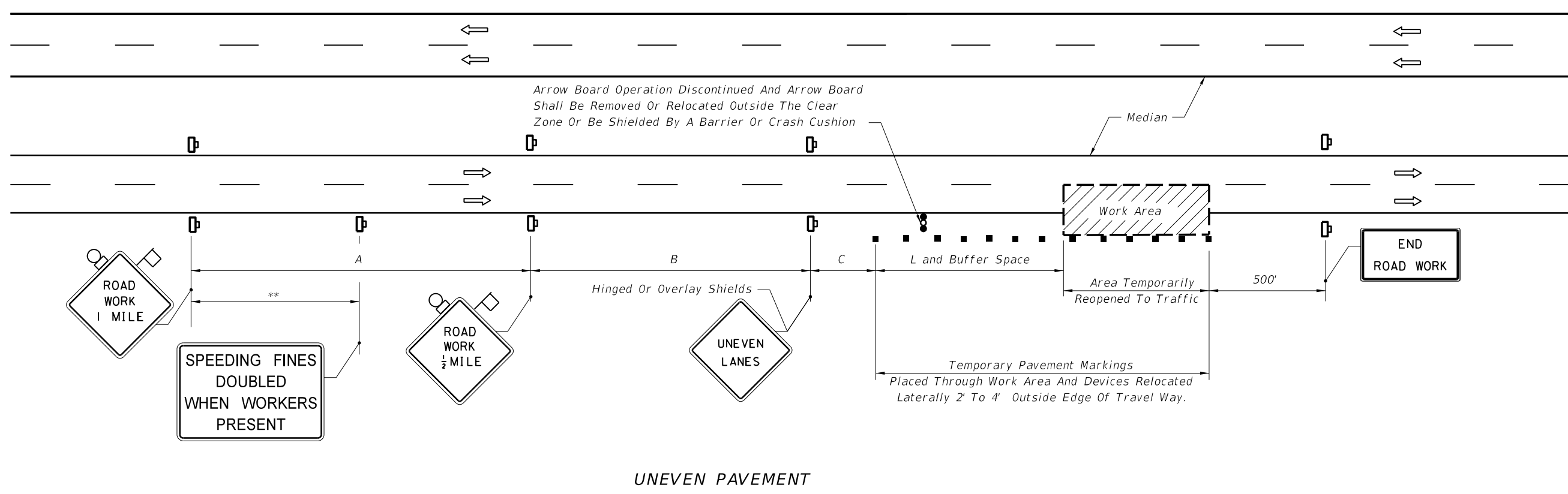
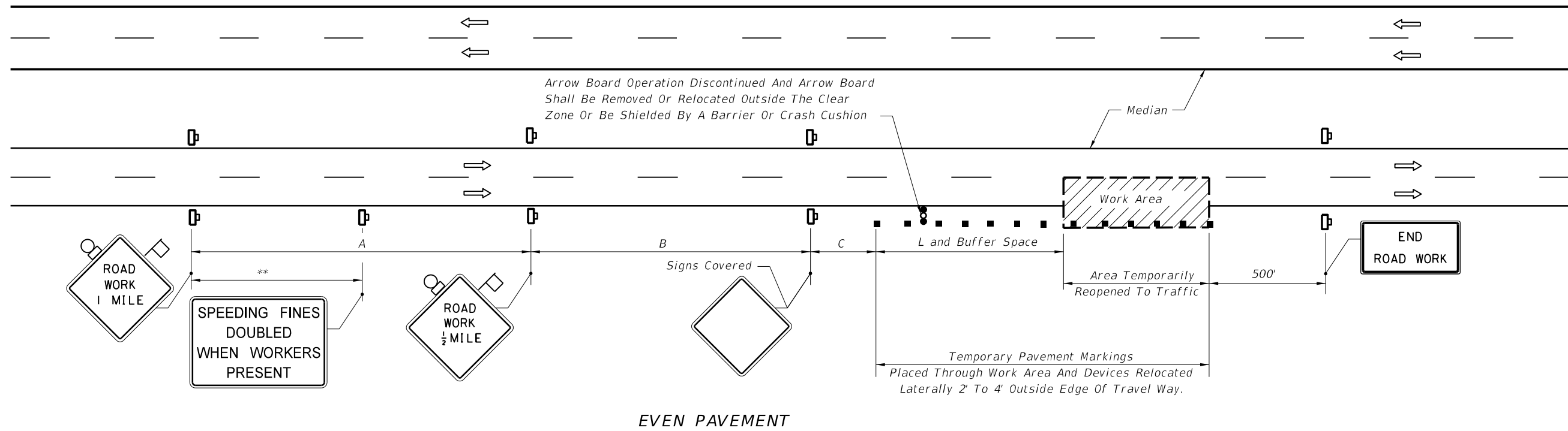
 - Work shall be confined within one median lane.
 - Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
- For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS


- Work Area
- Sign With 18"x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Advance Warning Arrow Board

5/21/2014 7:59:37 AM



INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

5/21/2014 7:59:38 AM

LAST REVISION 07/01/05	REVISION DESCRIPTION:	 2015 DESIGN STANDARDS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX NO. 613	SHEET NO. 2 of 2
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GENERAL NOTES








1. Work operations shall be confined to either one lane, or lane combinations as follows:
 - a. Outside travel lane;
 - b. Outside auxiliary lane;
 - c. Outside travel lane and adjoining auxiliary lane;
 - d. Inside travel lane Δ ;
 - e. Inside auxiliary lane Δ ;
 - f. Inside travel lane and adjoining auxiliary lane Δ
 Δ See Sheet 3

If the work area is confined to an auxiliary lane the work area shall be barricaded and the RIGHT (LEFT) LANE CLOSED AHEAD signs replaced by ROAD WORK AHEAD signs, and the merge symbol signs eliminated.
2. When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with Index No. 17302.
3. If the work space extends across a crosswalk, the crosswalk should be closed using the information in Index No. 660.
4. Signs are required on the median side for divided highways.
5. The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. For general TCZ requirements and additional information, refer to Index No. 600.


DURATION NOTES

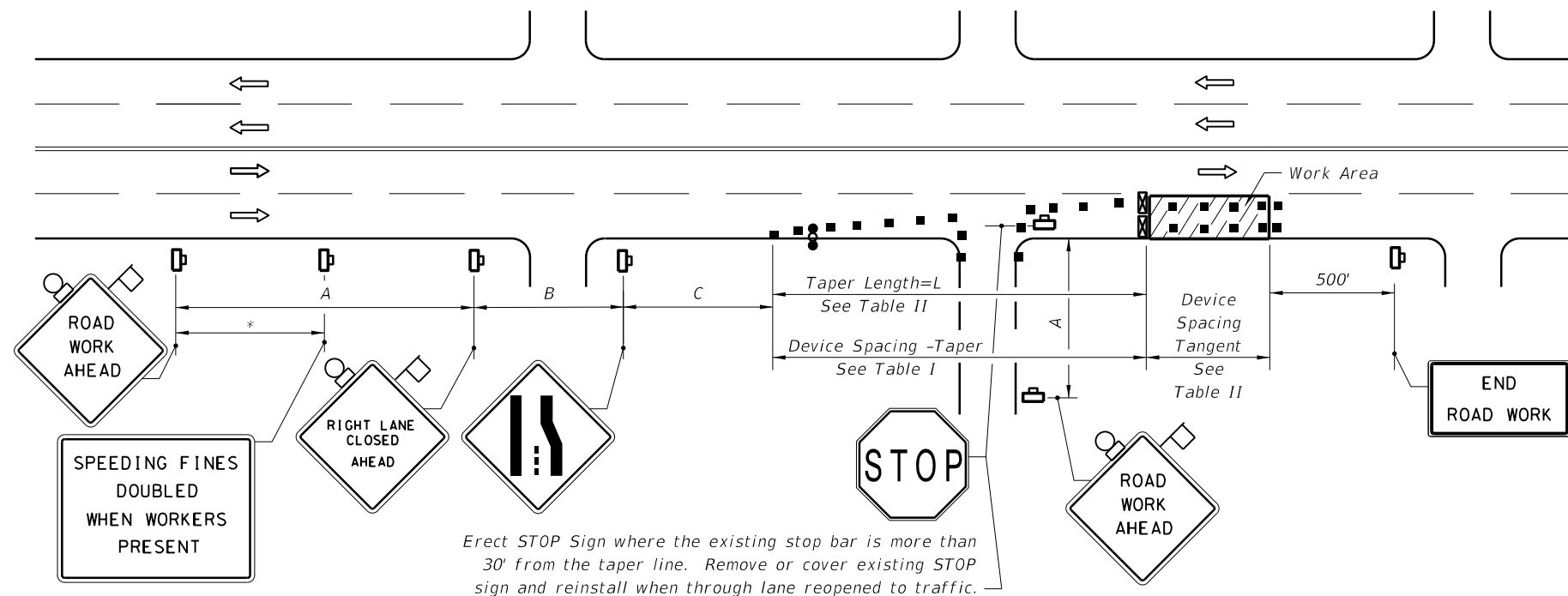
1. For work operations up to approximately 15 minutes, signs, channelizing devices, and arrow board may be omitted if all of the following conditions are met:
 - a. Speed limit is 45 mph or less.
 - b. No sight obstructions to vehicles approaching the work area for a distance equal to twice the taper length.
 - c. Volume and complexity of the roadway has been considered.
 - d. The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
2. For work operations up to 60 minutes, the arrow board may be omitted if conditions a, b, and c in DURATION NOTE 1 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

SYMBOLS

-  Work Area
-  Sign With 18" x 18" (Min.) Orange Flag And Type B Light
-  Work Zone Sign
-  Advance Warning Arrow Board
-  Type III Barricade
-  Channelizing Device (See Index No. 600)
-  Lane Identification + Direction of Traffic

5/21/2014 8:00:59 AM

LAST REVISION 07/01/09	REVISION	DESCRIPTION:	 2015 DESIGN STANDARDS	MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE	INDEX NO. 616	SHEET NO. 1 of 3
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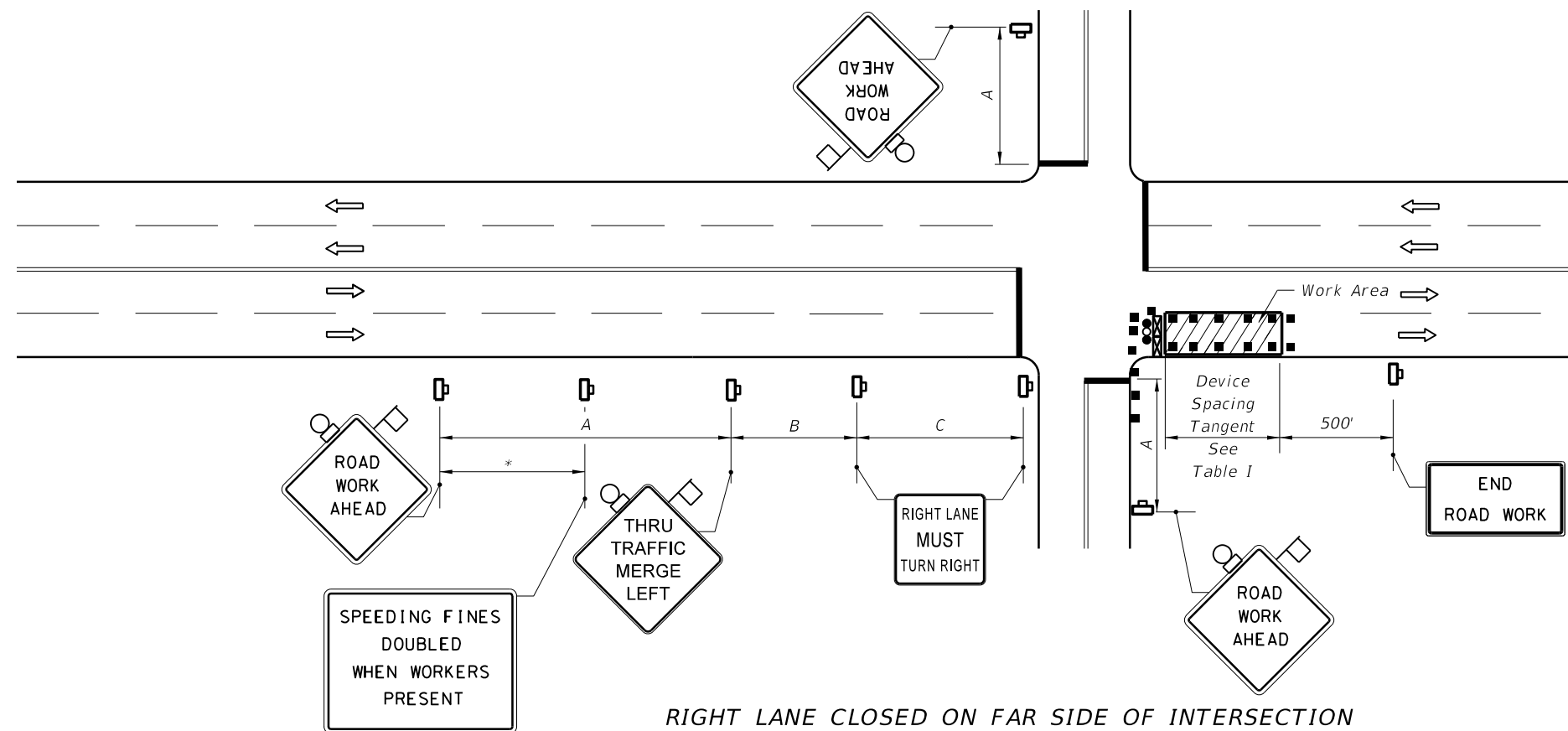


RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDESTREET

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50



RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

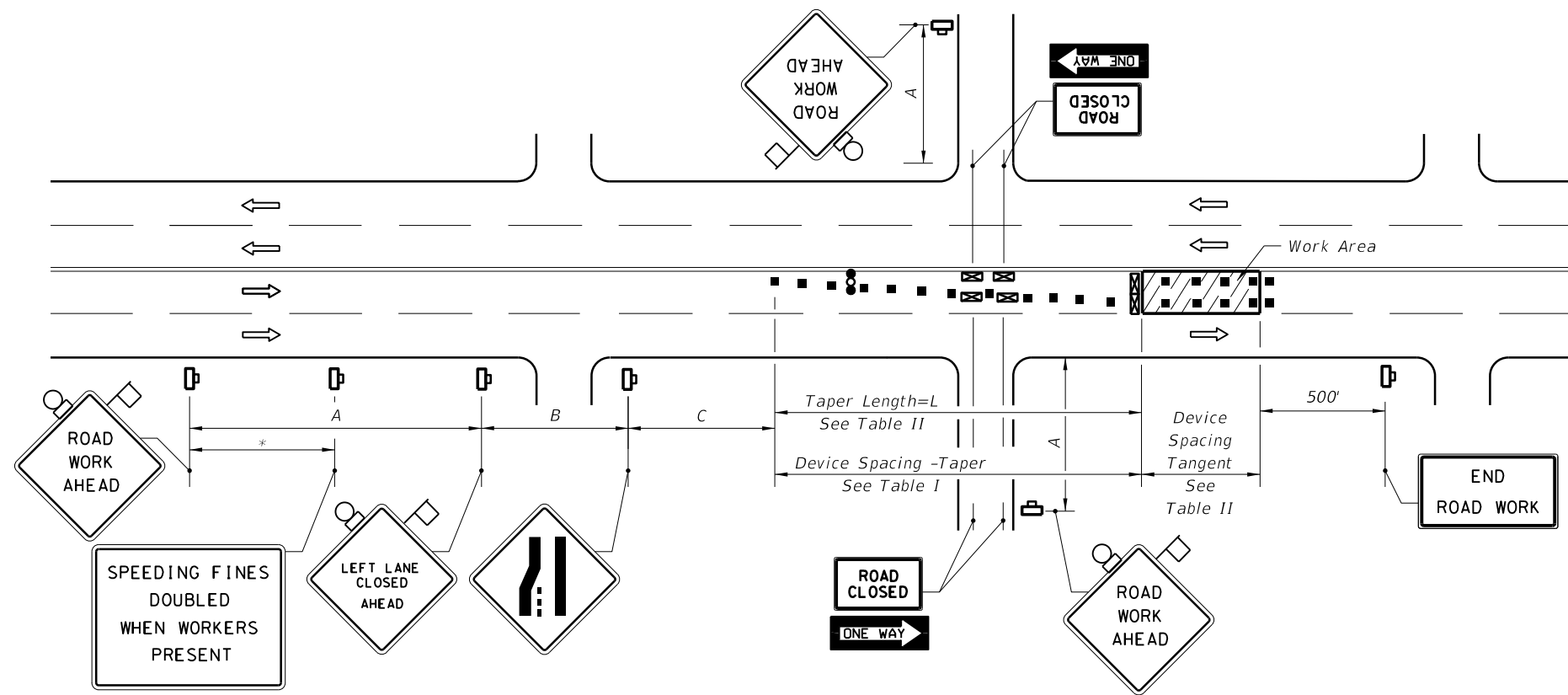
Speed (mph)	L (ft)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	
45	540	$L=WS$

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
 L = Length of taper in feet
 W = Width of lateral transition in feet
 S = Posted speed limit (mph)

1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a right lane having significant right turning movements, then the right lane may be restricted to right turns only as shown in this detail.

2. For intersection approaches reduced to a single lane, left turning movements may be prohibited to maintain capacity for through vehicular traffic.

5/21/2014 8:01:00 AM



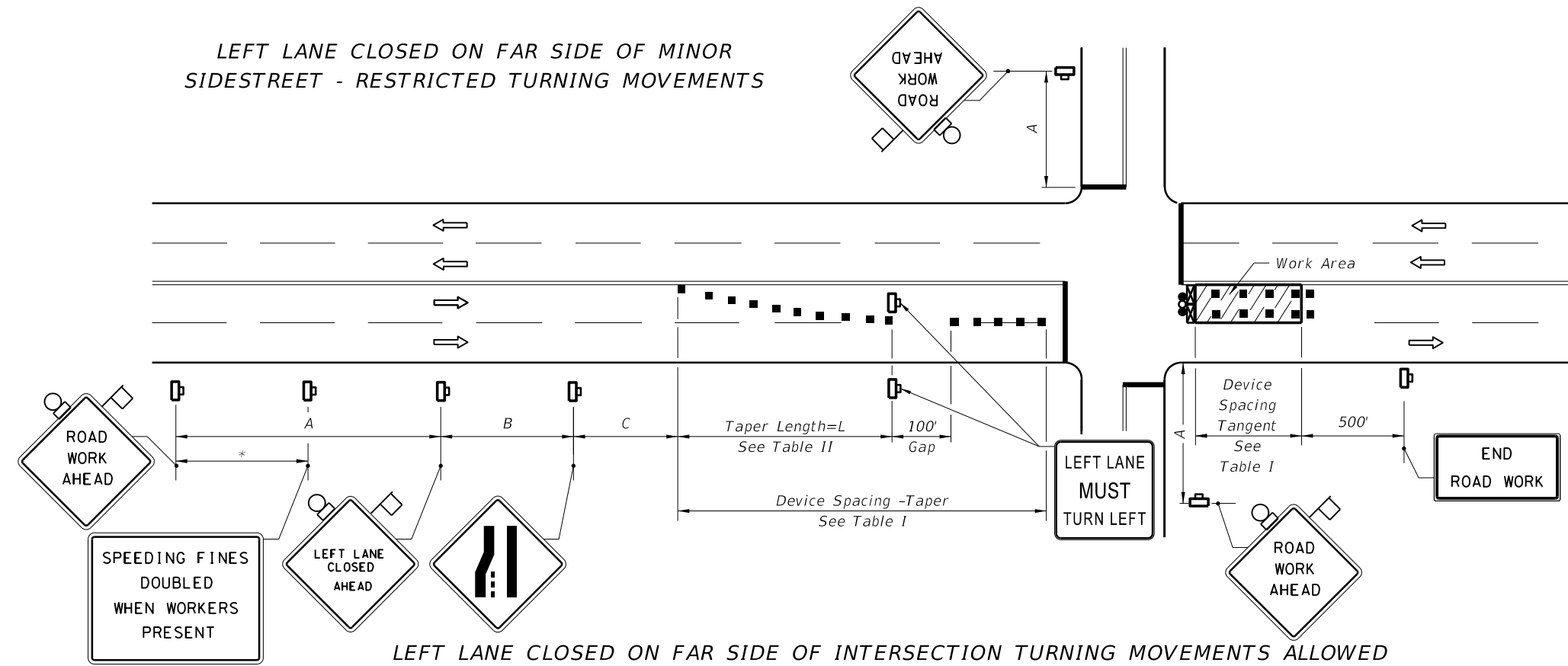
Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

**Table I
Device Spacing**

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50

LEFT LANE CLOSED ON FAR SIDE OF MINOR SIDESTREET - RESTRICTED TURNING MOVEMENTS



**Table II
Taper Length - Merge
(12' Lateral Transition)**

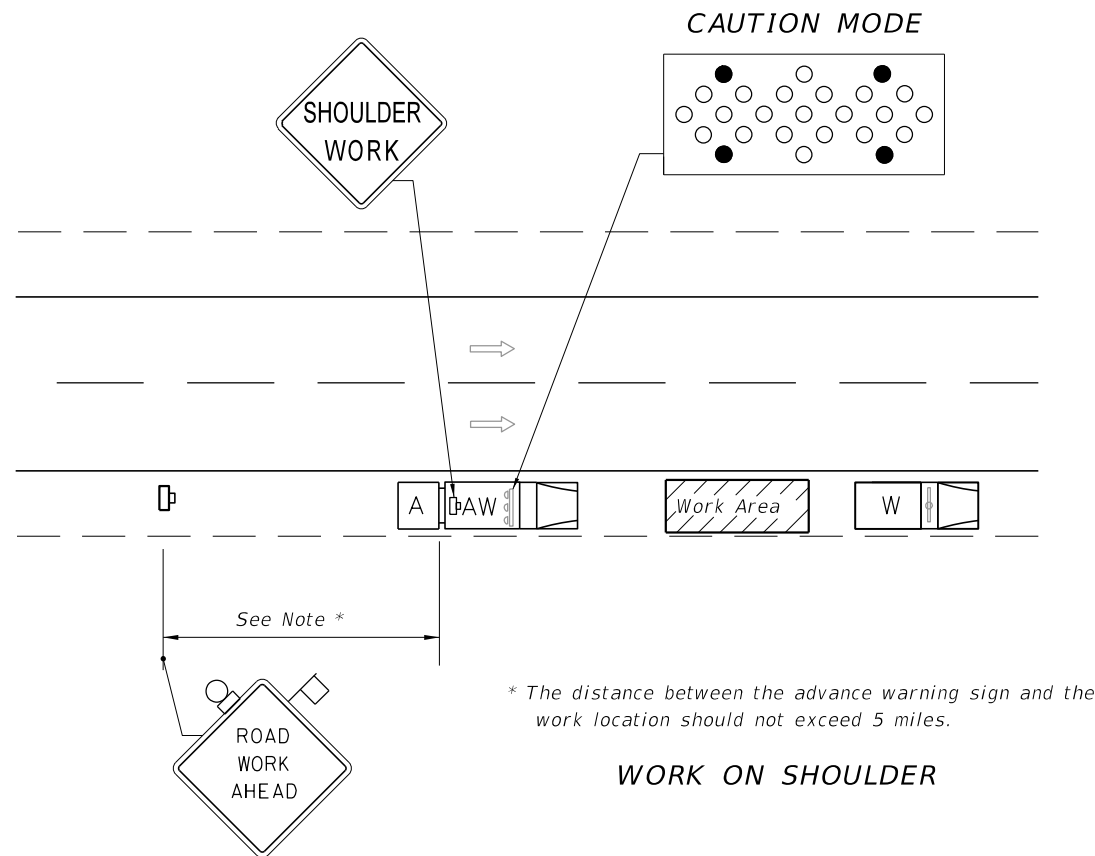
Speed (mph)	L (ft.)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	
45	540	$L = WS$

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
 L = Length of taper in feet
 W = Width of lateral transition in feet
 S = Posted speed limit (mph)

LEFT LANE CLOSED ON FAR SIDE OF INTERSECTION TURNING MOVEMENTS ALLOWED

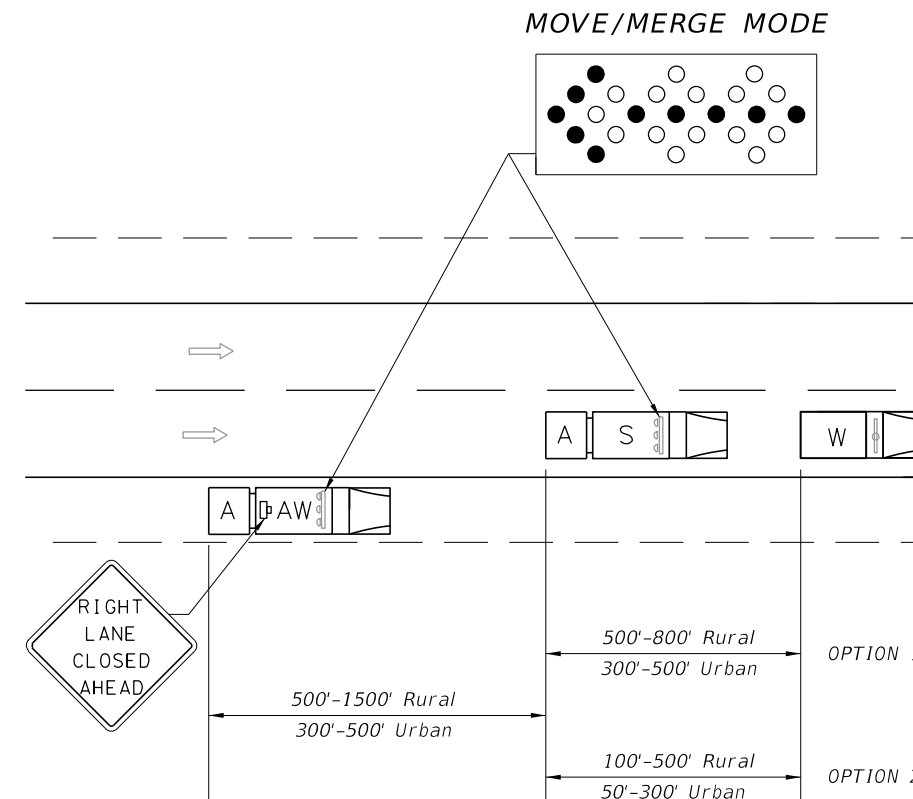
1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a left lane having significant left turning movements, then the left lane may be reopened as a turn bay for left turns only as show in this detail.

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* The distance between the advance warning sign and the work location should not exceed 5 miles.

WORK ON SHOULDER



OPTION 1: Advance Warning Vehicle may be operated in the lane behind the Shadow Vehicle where adequate shoulder width is not available. Approved Truck Mounted Attenuators are required on both the Advance Warning Vehicle and the Shadow Vehicle.

OPTION 2: Advance Warning Vehicle must be operated in the lane behind the Shadow Vehicle. Approved Truck Mounted Attenuators are required on both the Advance Warning Vehicle and the Shadow Vehicle.

**WORK WITHIN TRAVEL LANE
(Option 1 Shown, Option 2 Similar)**

GENERAL NOTES

1. These illustrations are representative of general conditions.
2. The figures illustrate closing the right shoulder or right lanes for various lane configurations. When work is required on left side of roadways, the inverted plan is to be applied. The intent of this index is to allow passing on only one side of the work convoy.
3. Arrow boards shall not be obscured by equipment, supplies, signs, or the enclosure.
4. Vehicle-mounted signs shall be mounted with the bottom of the sign at a minimum height of 48 inches above the pavement. Vehicle mounted changeable message signs may be used in lieu of truck mounted static signs. Changeable message signs shall flash alternately to read "Left or Right Lane" or "Two Left or Two Right Lanes", "Closed Ahead", and the arrow symbol. Arrow boards shall not be used with truck mounted changeable message signs. Sign legends shall be covered or turned from view when work is not in progress.
5. On freeway facilities (interstates, toll roads, and expressways), a traffic control officer is required for all nighttime operations for work within the travel lane.
6. If the work vehicle speed exceeds the minimum legal speed limit on limited access facilities and one half the posted speed limit on other facilities, the Engineer may delete requirements for shadow vehicle and attenuator. The work vehicle will be required to have an arrow board and sign message.
7. Where work activities within 2' of the edge of travel way are incidental (i.e. Mowing, Litter Removal), the Engineer may delete requirements for signs and the advance warning vehicle provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
8. Work, Shadow, and Advance Warning Vehicles shall have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
9. Functional two-way communication is required between all vehicles in the mobile operation convoy.
10. For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS

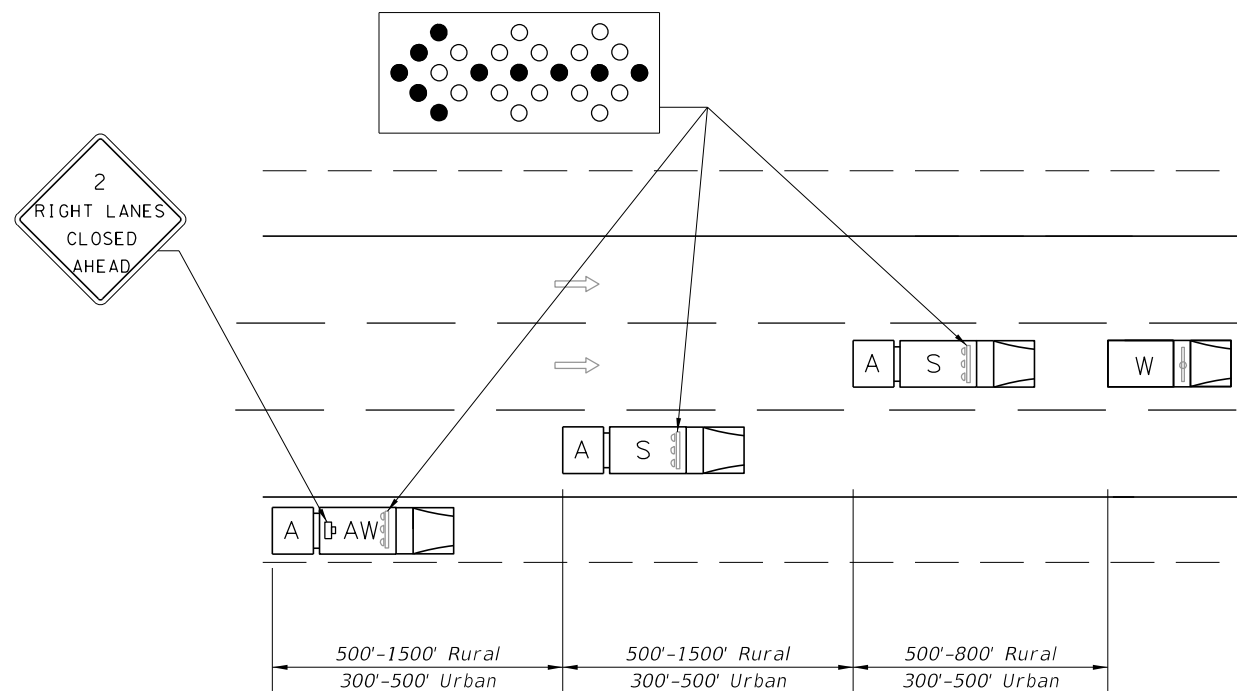
- Work Vehicle With Rotating/Strobe Lights
- Shadow (S) Vehicle with Arrow Board
- Advance Warning (AW) Vehicle with Arrow Board and Sign Message or Changeable Message Sign
- Truck/Trailer Mounted Attenuator (TMA)
- Lane Identification And Direction Of Traffic
- Arrow Board

4/1/2015 3:09:56 PM

LAST REVISION 4/1/15	REVISION	DESCRIPTION: Changed the Work Within Travel Way Detail to show additional option.	 2015 DESIGN STANDARDS	MULTILANE, MOBILE OPERATIONS WORK ON SHOULDER, WORK WITHIN TRAVEL WAY	INDEX NO. 619	SHEET NO. 1 of 2
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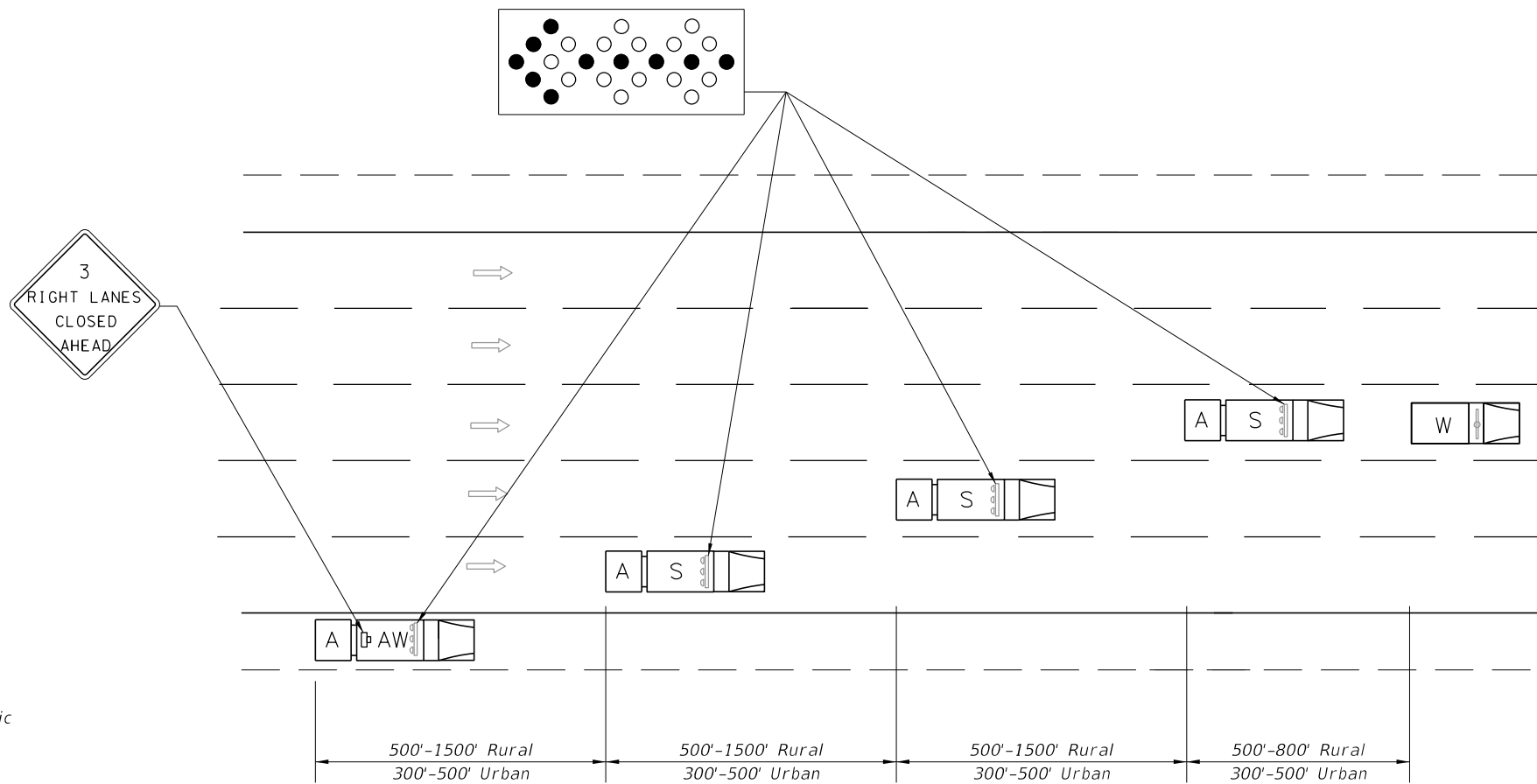
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MOVE/MERGE MODE



WORK WITHIN TRAVEL WAY, CENTER LANE OR OUTSIDE CENTERLINE
 Where adequate shoulder width is not available, the advance warning vehicle may drive in the lane.

MOVE/MERGE MODE

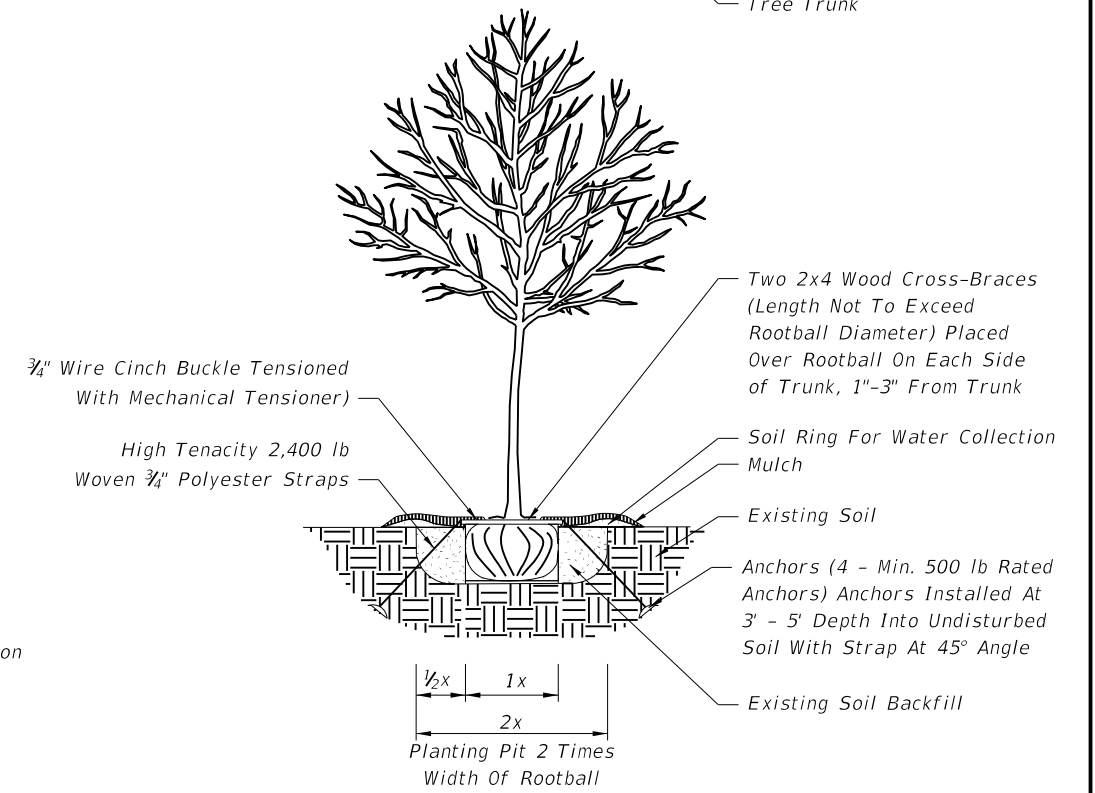
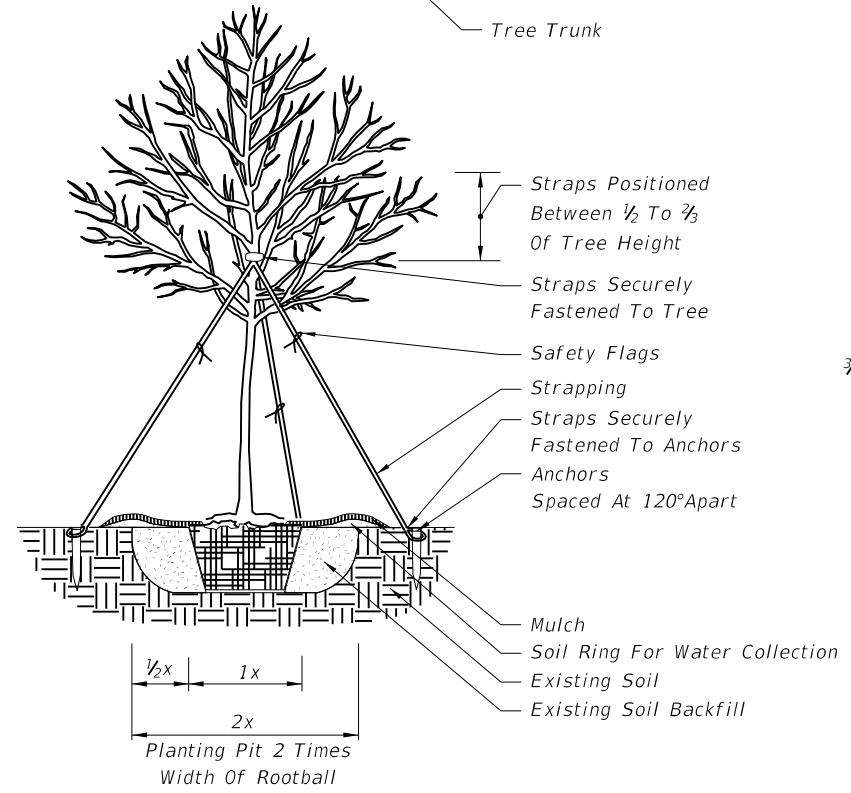
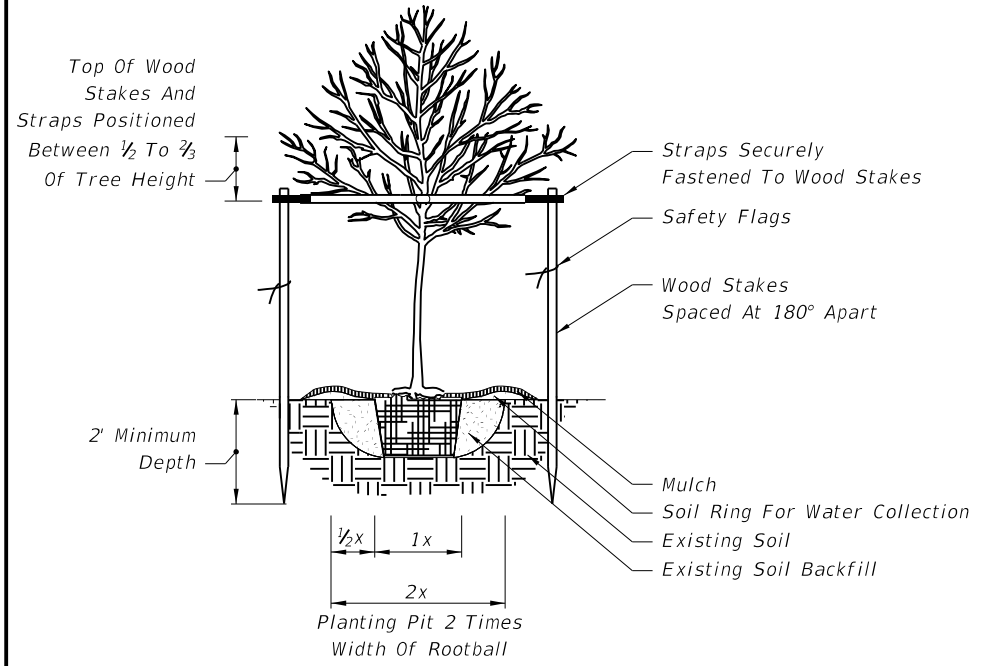
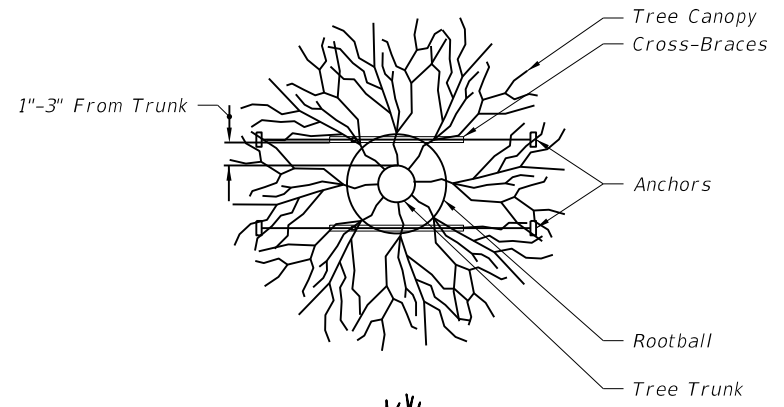
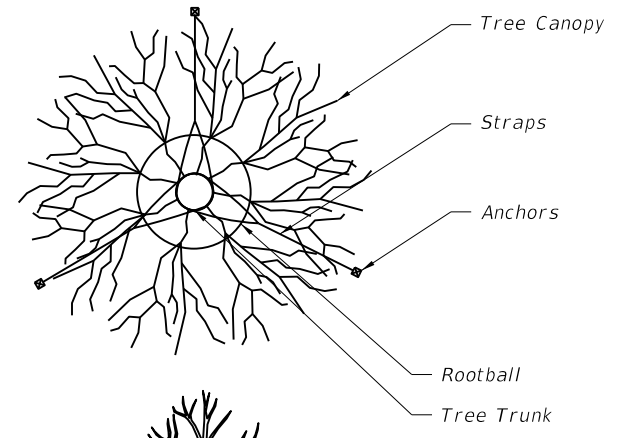
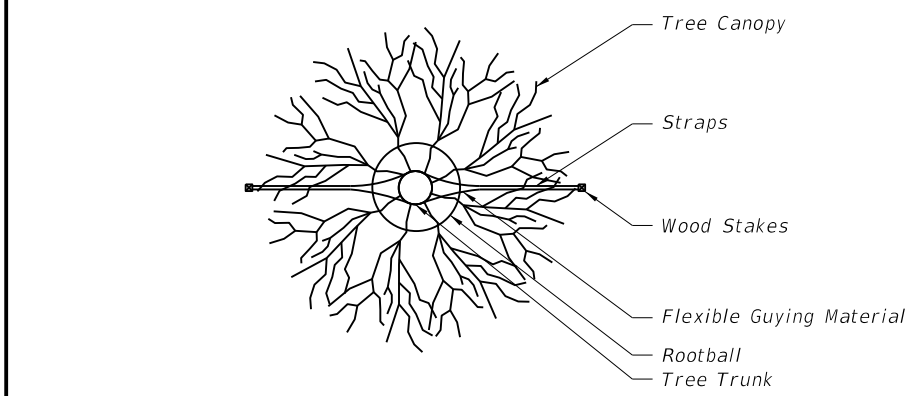


SYMBOLS

- Work Vehicle
- Shadow (S) Vehicle with Arrow Board
- Advance Warning (AW) Vehicle with Arrow Board and Sign Message or Changeable Message Sign
- Truck/Trailer Mounted Attenuator (TMA)
- Lane Identification And Direction Of Traffic
- Arrow Board

WORK WITHIN TRAVEL LANE

LAST REVISION 4/1/15	REVISION	DESCRIPTION: Changed the Advance Warning (AW) Vehicle Arrow Board Mode in the Work Within Travel Way, Center Lane or Outside Center Lane and Work Within Travel Lane Details.
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1" - 3 1/2 " CALIPER TREE PLANTING

4" AND LARGER CALIPER TREE PLANTING

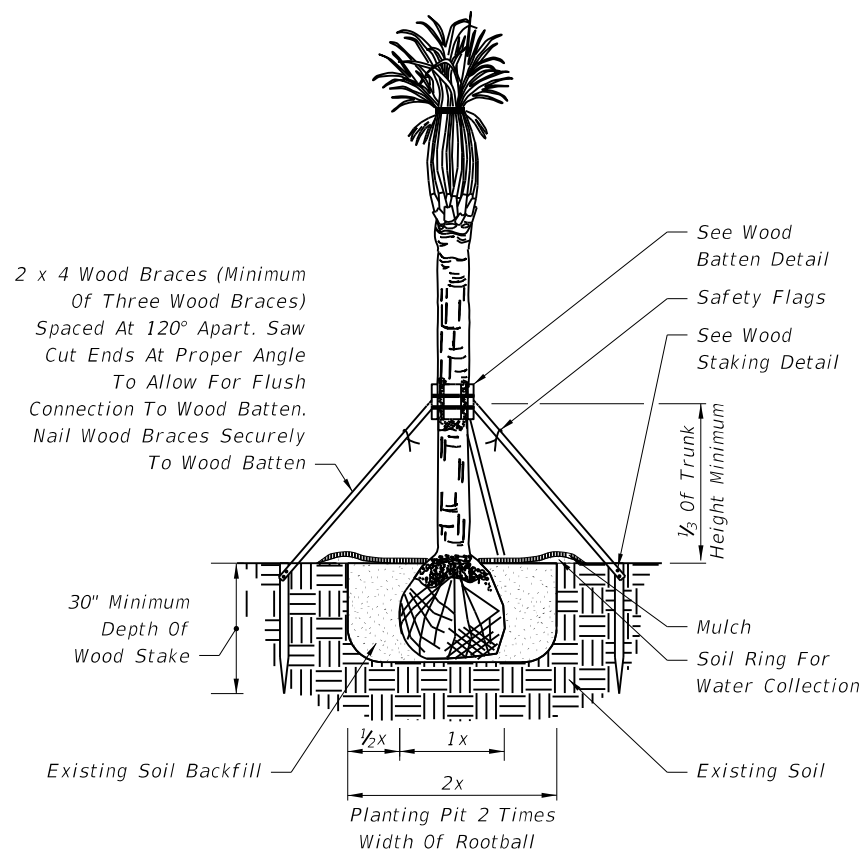
1" - 3 1/2" CALIPER TREE PLANTING WITH UNDERGROUND BRACING

GENERAL NOTES:

1. All dimensions 6" and less are exaggerated for illustrative purposes only.
2. Plant containers shall be removed prior to planting. If plants are not container grown, remove a minimum of the top 1/3 of burlap, fabric, or wire mesh. Never lift or handle the tree by the trunk.
3. The uppermost root on all trees shall be covered by less than 1" of soil. Use hand tools to carefully remove all excess soil. The top of root ball shall be set 1"-2" above finish grade and set plumb to the horizon. If planting pit is too deep, remove the tree and firmly pack additional soil in the bottom of the planting pit to raise the rootball. After positioning the tree in the planting pit, slice through rootballs with 3 or 4 vertical slices (top to bottom) equally distributed around the tree.
4. Backfill shall be loosened existing soil. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. If existing soils contain excessive sand, clay, or other material not conducive to proper plant growth, contact Engineer prior to planting.
5. Soil rings shall be constructed of existing soil at the outer edge of the planting pit, with a height of 3" and gently sloping sides. Do not pile soil on top of rootball.
6. Mulch shall be a 3" deep layer placed to the edge of the trunk flare, around the base of shrub, or solidly around groundcover. Never pile mulch against the tree trunk.
7. Straps shall be minimum 1" wide nylon or polypropylene. All wood stakes or anchors shall be located beyond the edge of soil ring and located below finished grade, unless otherwise specified.
8. Sabal Palms may be hurricane cut. All other palms must have fronds tied with biodegradable twine. Palm trunks shall have no burn marks, scars, or sanding.
9. All dimensions provided for wood materials are nominal.
10. When a permanent, subsurface, or drip irrigation system is provided, a soil ring is not required. Mulch to edge of planting pit.
11. Alternate tree bracing and guying systems approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the Index. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barricade detailed on the index.
12. Remove aboveground guying systems at the end of the establishment period.

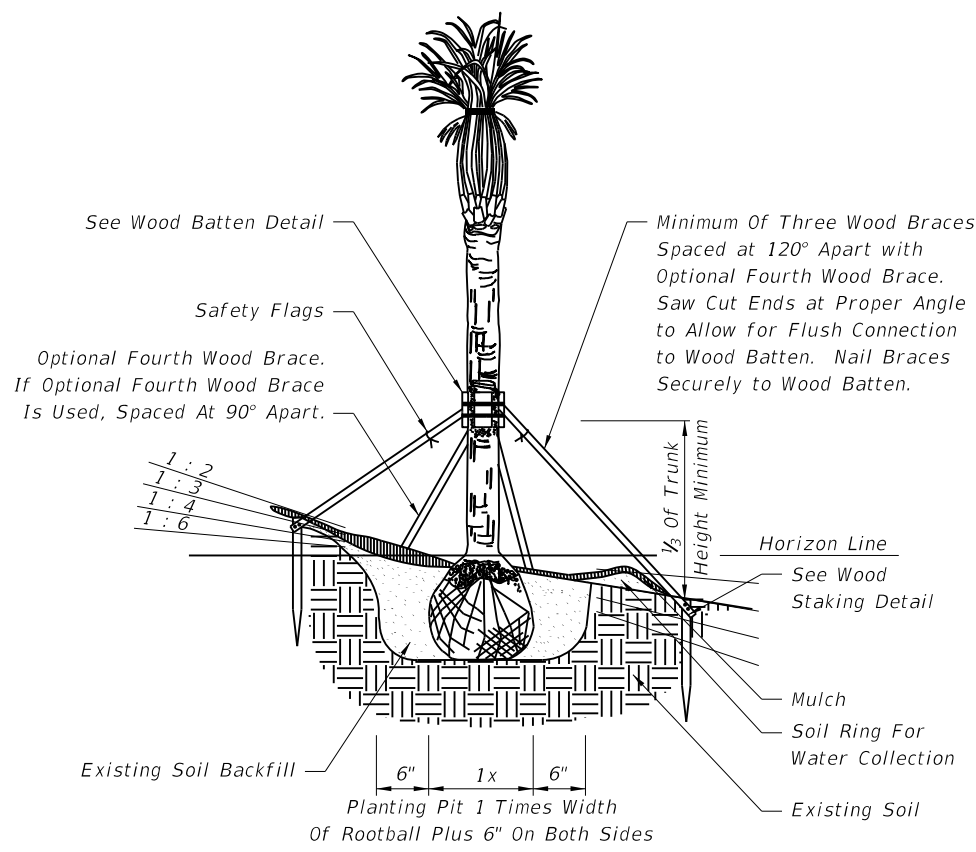
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LAST REVISION 07/01/07	DESCRIPTION:	 2015 DESIGN STANDARDS	LANDSCAPE INSTALLATION	INDEX NO. 544	SHEET NO. 1 of 3
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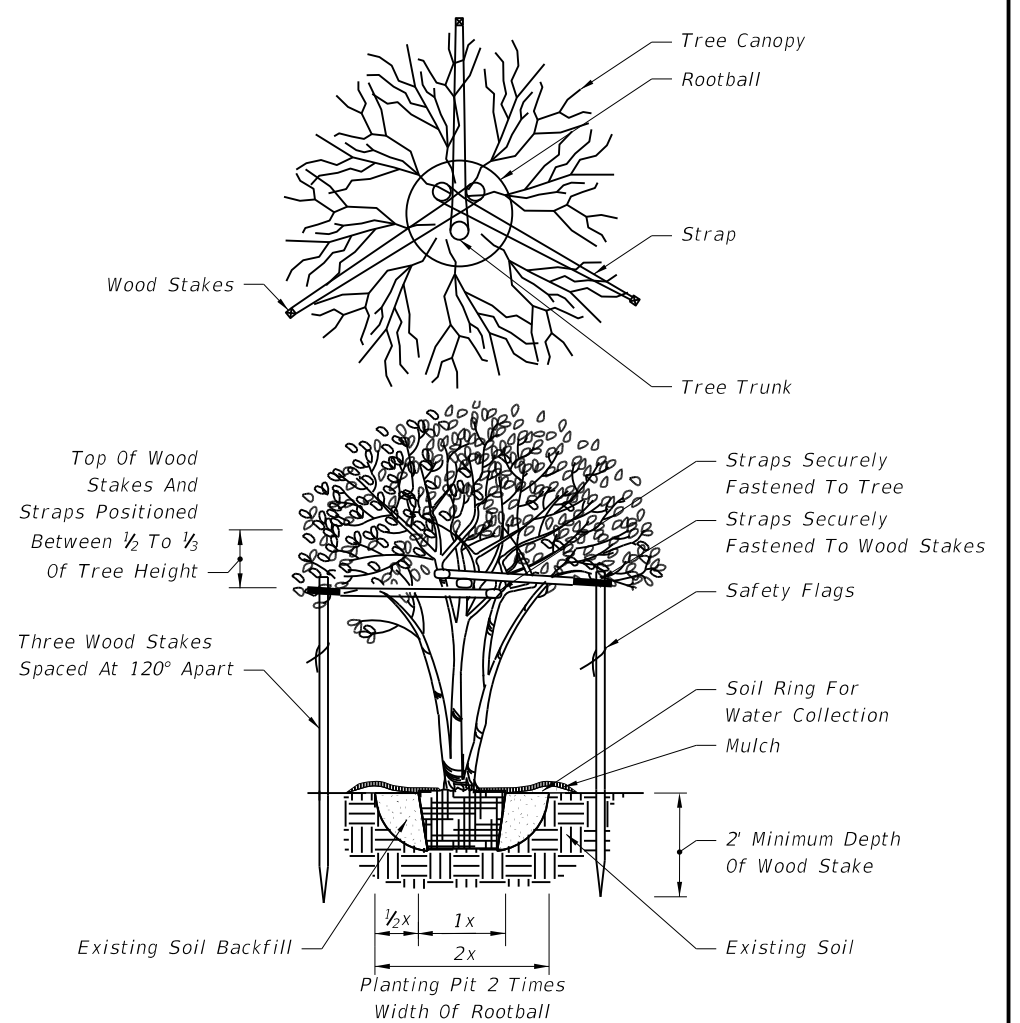
NOTE: For All Other Palms, Use Detail Provided By Landscape Architect In Contract Plans.

CABBAGE PALM PLANTING FOR UP TO 24' CLEAR TRUNK

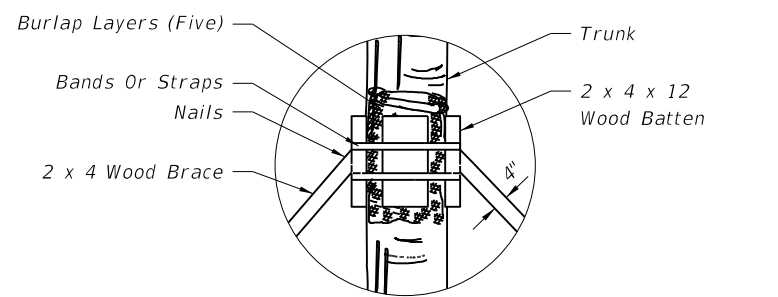


NOTES: Slope Provided As Rise:Run. For All Other Palms, Use Detail Provided By Landscape Architect In Contract Plans.

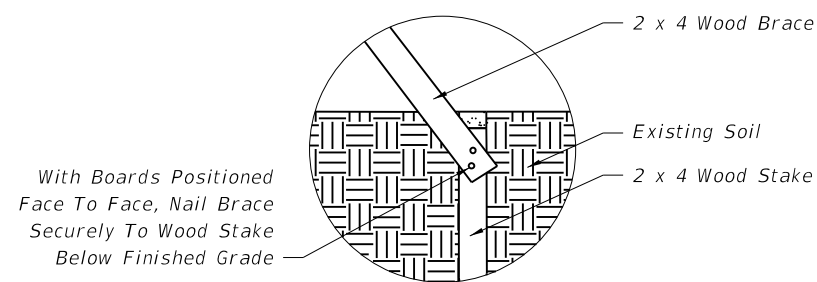
CABBAGE PALM PLANTING ON SLOPE FOR UP TO 24' CLEAR TRUNK



MULTI-TRUNK TREE PLANTING

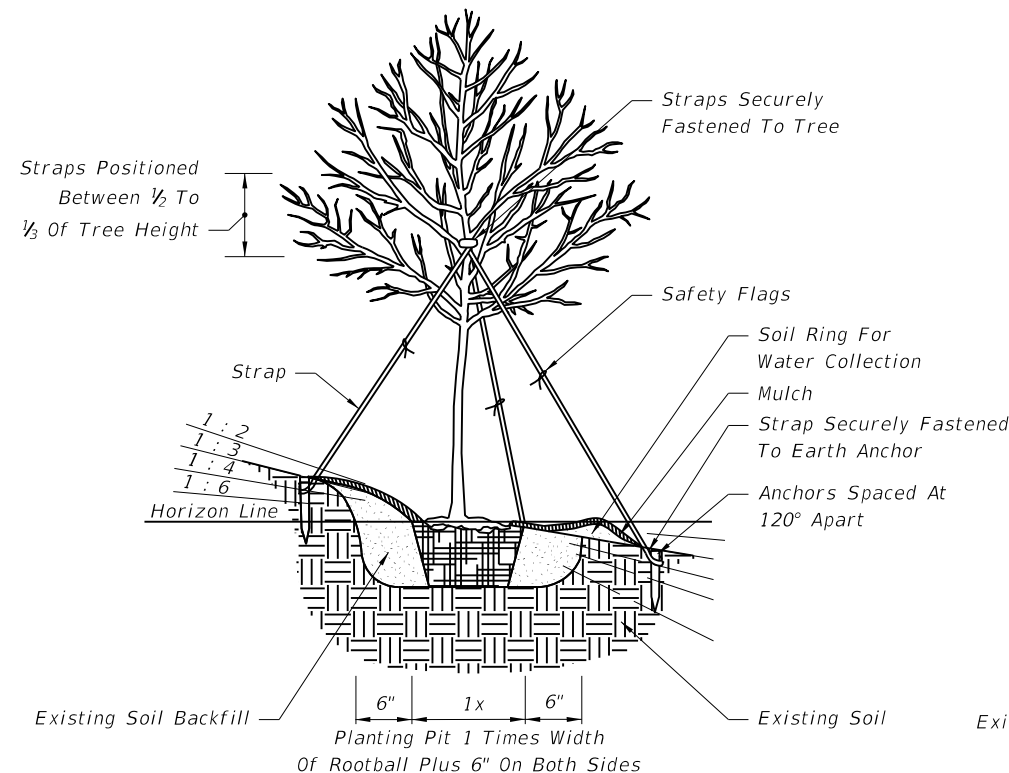


WOOD BATTEN DETAIL



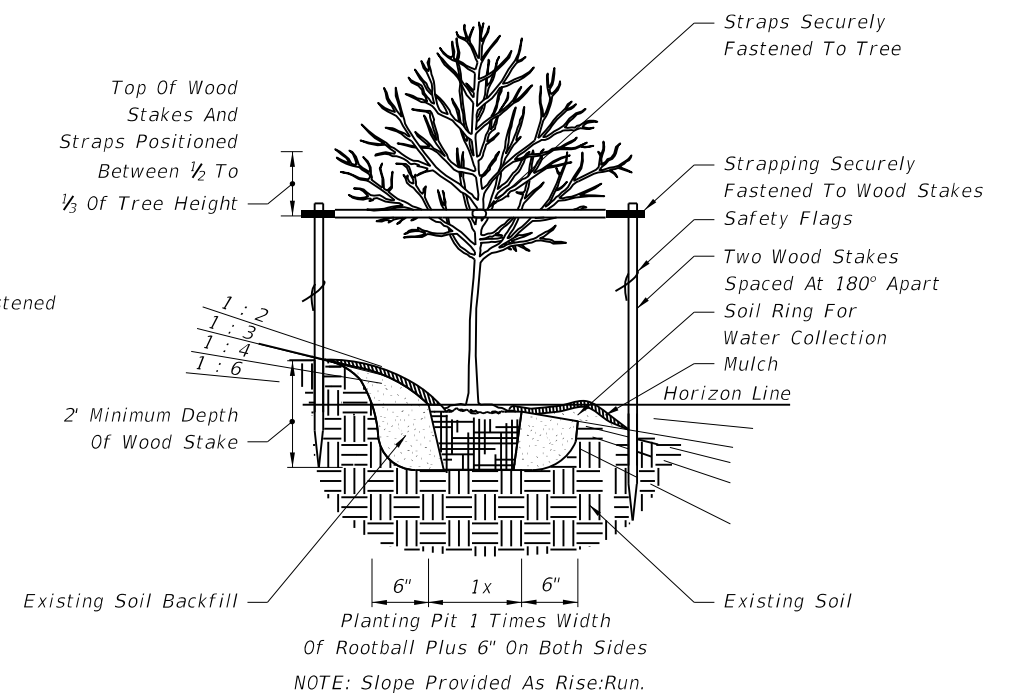
NOTE: Stake Into Firm, Existing Soil.

WOOD STAKING DETAIL



NOTE: Slope Provided As Rise:Run.

4\"/>

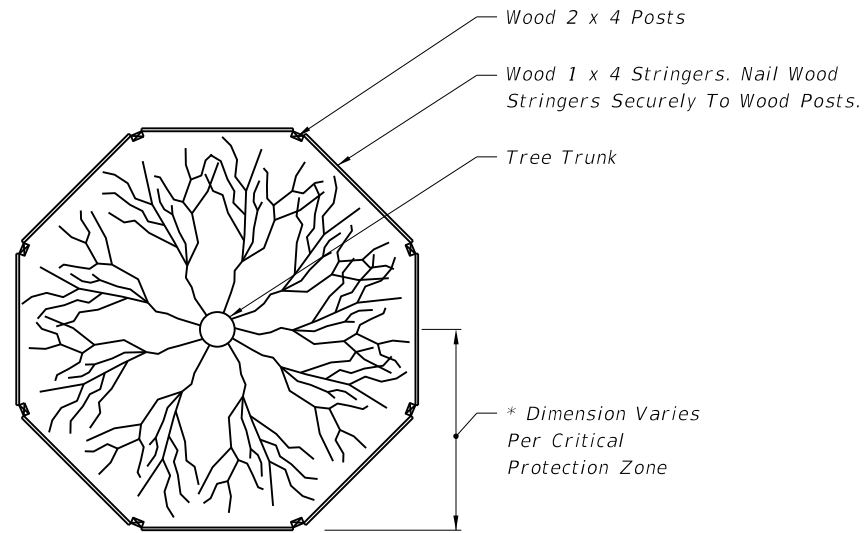


NOTE: Slope Provided As Rise:Run.

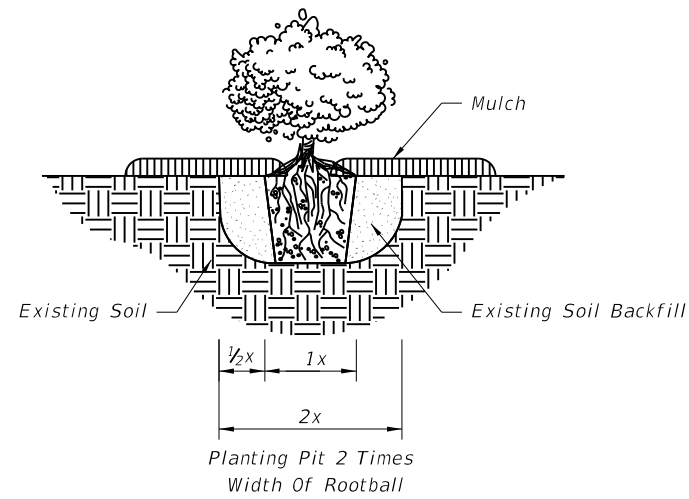
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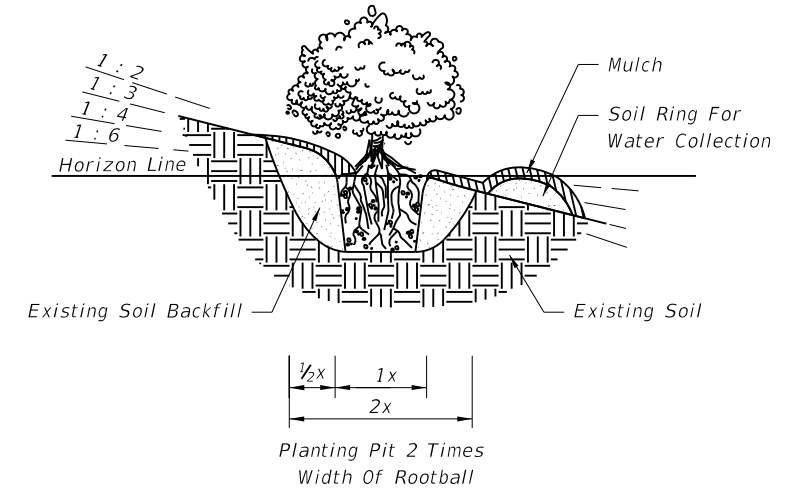
LAST REVISION 07/01/07	REVISION	DESCRIPTION:	2015 DESIGN STANDARDS	LANDSCAPE INSTALLATION	INDEX NO. 544	SHEET NO. 2 of 3
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NOTE: For Groups Of Trees, Place Barricades Between Trees And Construction Activity.

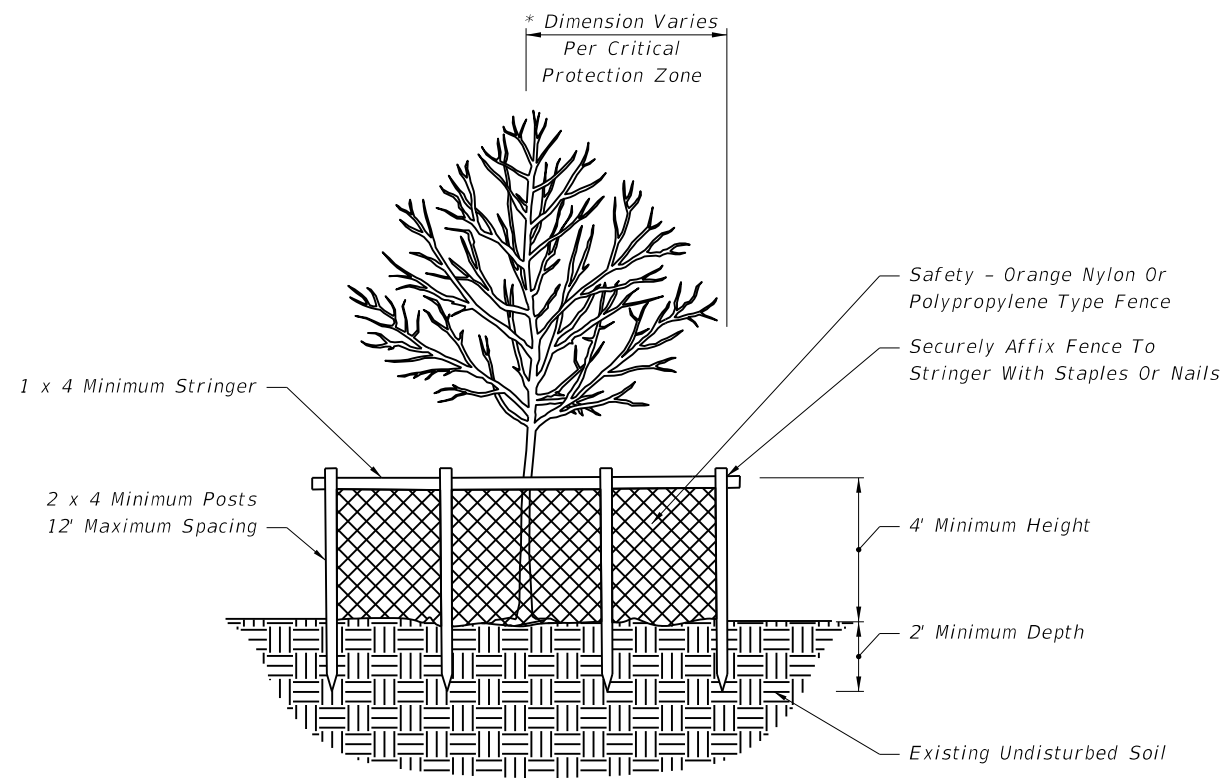


GROUND COVER/SHRUB PLANTING



NOTE: Slope Provided As Rise:Run.

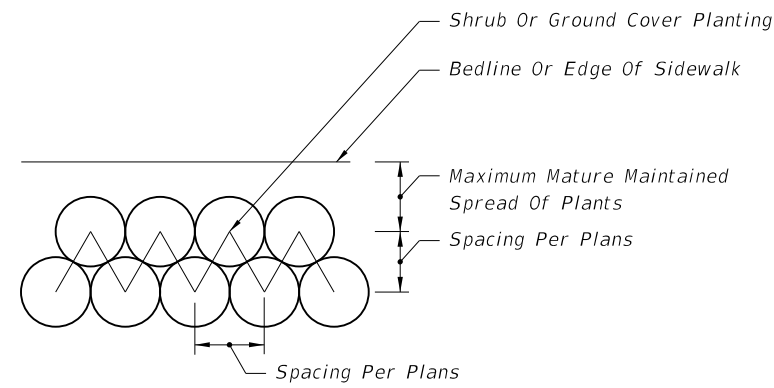
GROUND COVER/SHRUB PLANTING ON SLOPE



NOTES: Critical Protection Zone: The Area Surrounding A Tree Within A Circle Described By A Radius Of One Foot For Each Inch Of The Tree Trunk Diameter At 54" Above Finished Grade. For Groups Of Trees, Place Barricades Between Trees And Construction Activity.


* Tree Protection Barricades Shall Be Located To Protect A Minimum Of 75% Of The Critical Protection Zone.

TREE PROTECTION BARRICADE



GROUND COVER/SHRUB LAYOUT DETAIL

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LAST REVISION 07/01/07	REVISION	DESCRIPTION:	 2015 DESIGN STANDARDS	LANDSCAPE INSTALLATION	INDEX NO. 544	SHEET NO. 3 of 3
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