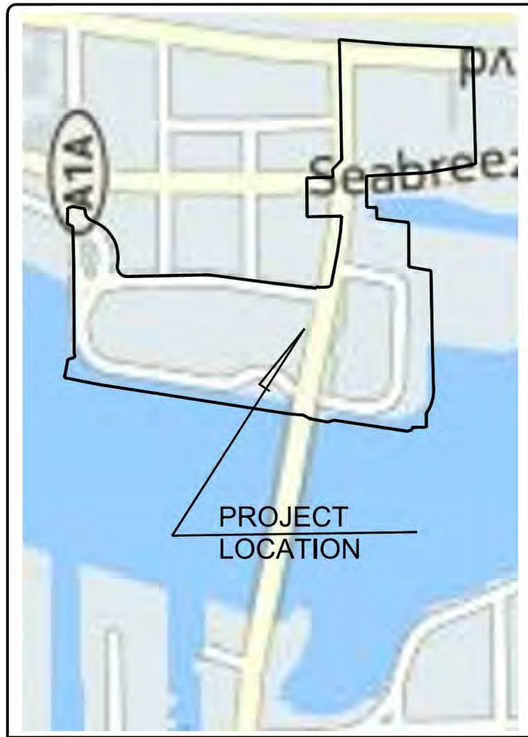
CITY OF FORT LAUDERDALE

PROJECT #11900
LAS OLAS BOULEVARD CORRIDOR IMPROVEMENTS

FORT LAUDERDALE BEACH, INTRACOASTAL TO SR A1A
FORT LAUDERDALE, FLORIDA

VOLUME 1



NORTH LOCATION SKETCH

PROJECT #11900
LAS OLAS BOULEVARD
CORRIDOR IMPROVEMENTS
FORT LAUDERDALE BEACH, FORT LAUDERDALE, FLORIDA

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

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DEAN J. TRANTALIS	COMMISSIONER - DISTRICT II
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ROMNEY ROGERS	COMMISSIONER - DISTRICT IV

PROJECT MANAGER	JOB TITLE	PHONE NO.

DATE: 03/15/2016
CAD FILE:
DRAWING FILE No.:

60% CD SUBMITTAL

Drawing name: G:\Projects\PK\1140412 Las Olas Blvd Corridor Improvements\Drawings\EDSA\doc\Working_CD SUBMITTAL\11900-LO-000-COVR.dwg Layout1 Feb 22, 2016 3:50pm by sbarnard

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

INDEX OF DRAWINGS

SHEET NO. L0-0.01 | X OF XX

DRAWING FILE 11900-L0-001-INDX.dwg

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DRAWING INDEX

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SHEET NUMBER	SHEET NAME	60% CD SUBMITTAL 03-15 2016	ADDENDUM:1 03-16-2016	ADDENDUM:2 03-25-2016	ADDENDUM:3 04-6-2016
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F-2.05	INTERACTIVE WATER FEATURE - SECTIONS	•			
F-3.00	MECH EQUIPMENT ID	•			

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LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

INDEX OF DRAWINGS

SHEET NO. L0-0.02 | X OF XX

DRAWING FILE 11900-L0-001-INDX.dwg

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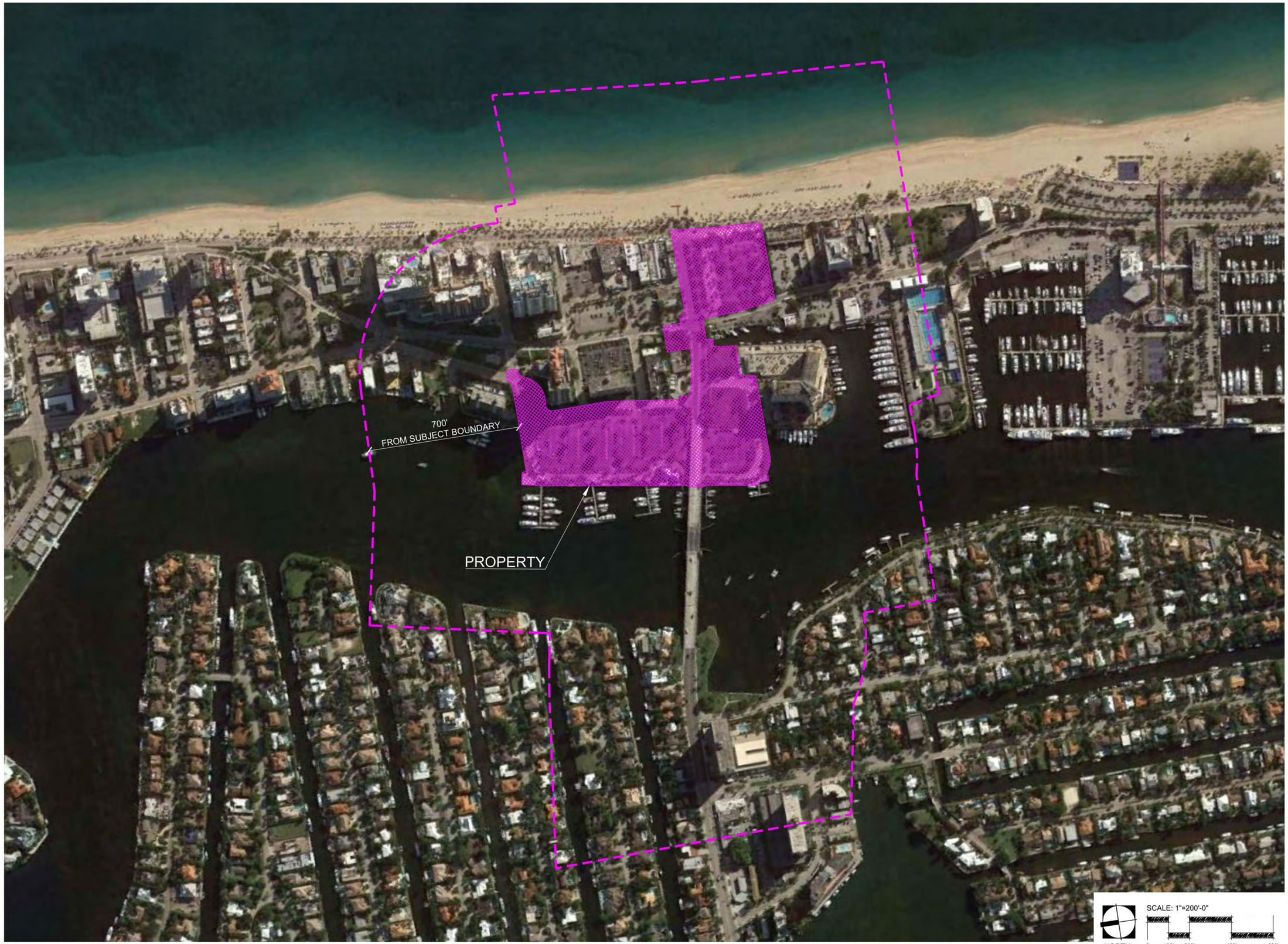

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PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

AERIAL PLAN

SHEET NO. L0-0.03 X OF XX

DRAWING FILE 11900-L0-0C3-AERL.dwg

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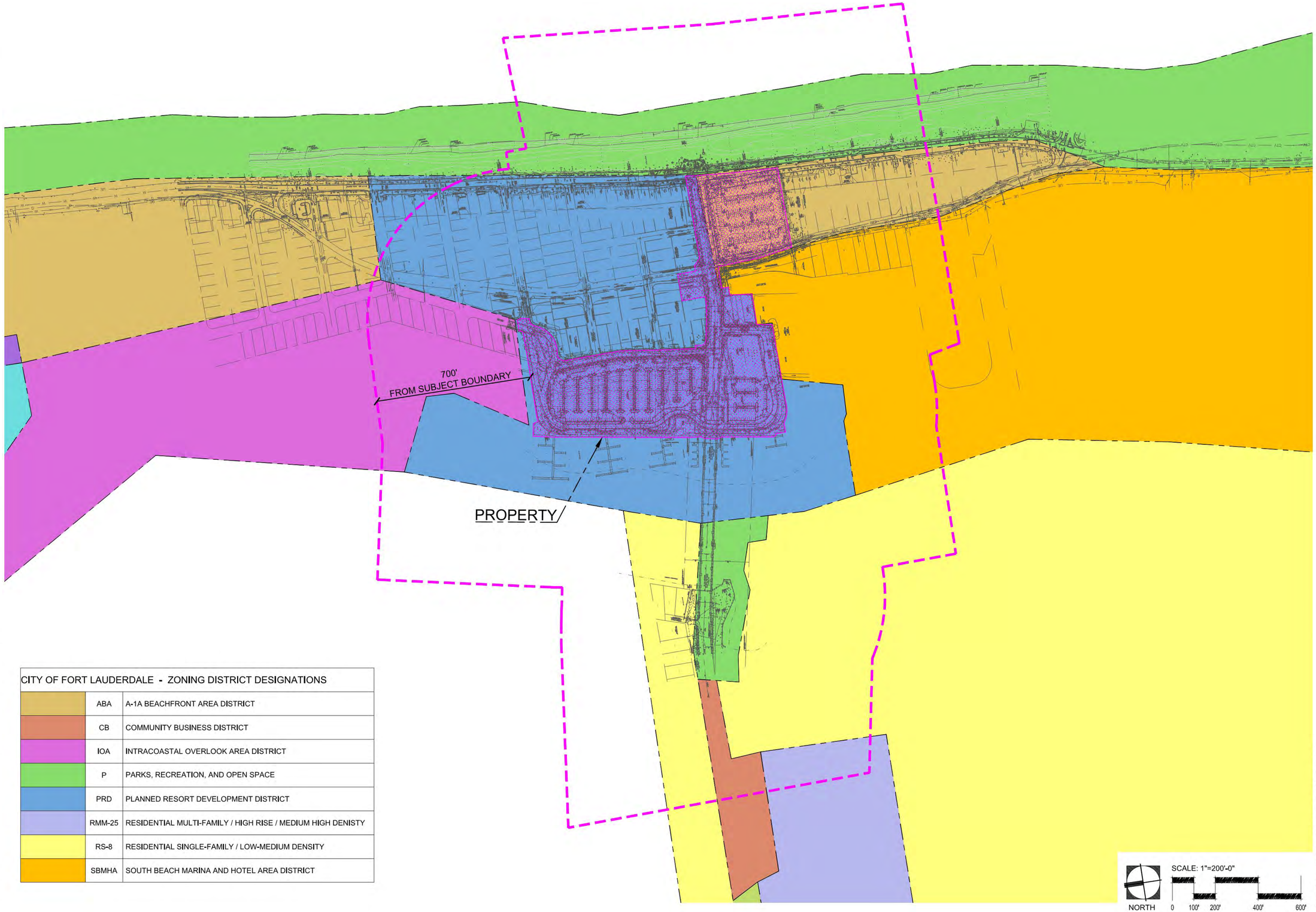

CITY OF FORT LAUDERDALE - ZONING DISTRICT DESIGNATIONS		
	ABA	A-1A BEACHFRONT AREA DISTRICT
	CB	COMMUNITY BUSINESS DISTRICT
	IOA	INTRACOASTAL OVERLOOK AREA DISTRICT
	P	PARKS, RECREATION, AND OPEN SPACE
	PRD	PLANNED RESORT DEVELOPMENT DISTRICT
	RMM-25	RESIDENTIAL MULTI-FAMILY / HIGH RISE / MEDIUM HIGH DENISTY
	RS-8	RESIDENTIAL SINGLE-FAMILY / LOW-MEDIUM DENSITY
	SBMHA	SOUTH BEACH MARINA AND HOTEL AREA DISTRICT

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PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

ZONING PLAN

SHEET NO. L0-0.04
X OF XX

DRAWING FILE
11900-L0-004-ZONE.dwg

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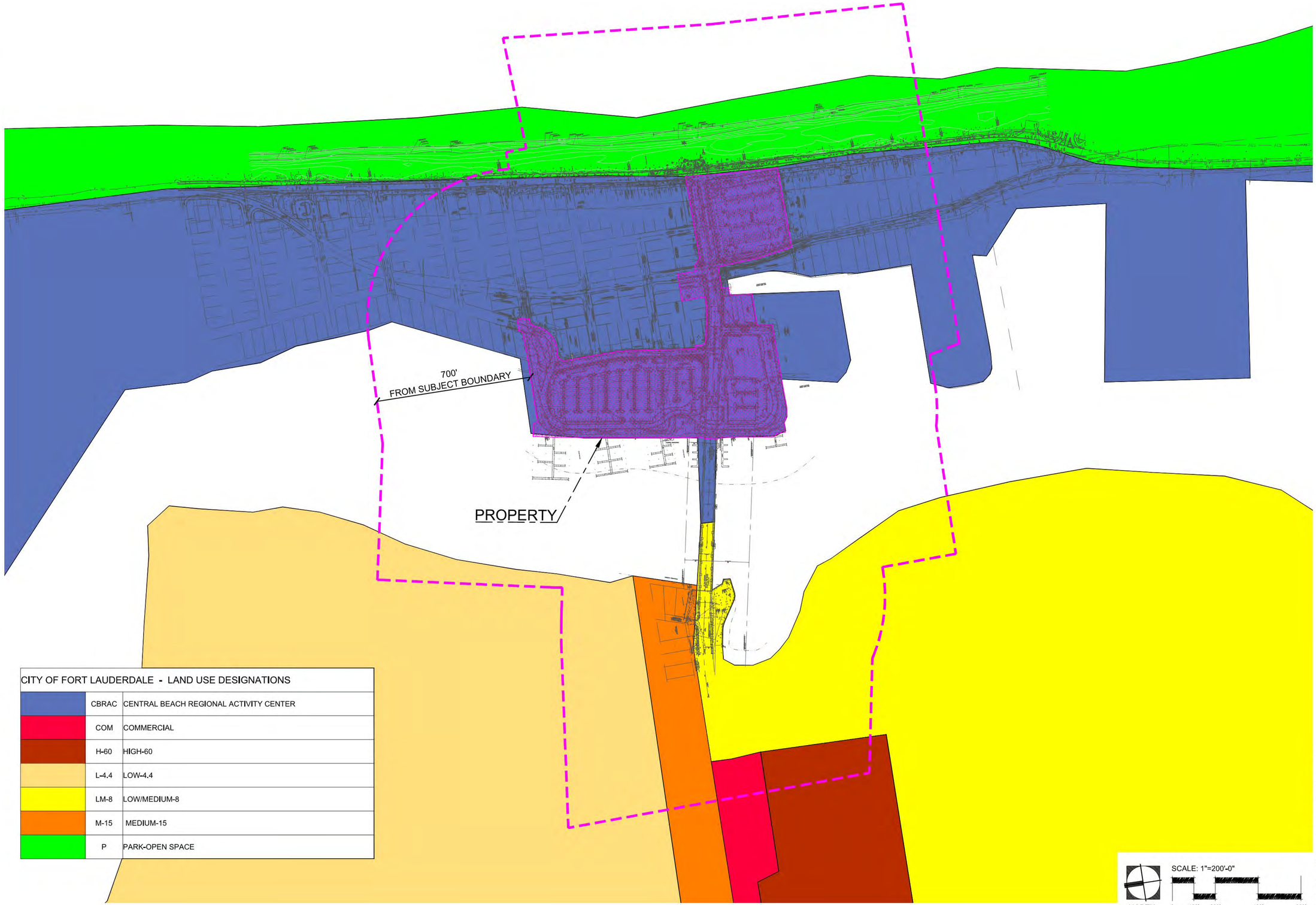

CITY OF FORT LAUDERDALE - LAND USE DESIGNATIONS		
	CBRAC	CENTRAL BEACH REGIONAL ACTIVITY CENTER
	COM	COMMERCIAL
	H-60	HIGH-60
	L-4.4	LOW-4.4
	LM-8	LOW/MEDIUM-8
	M-15	MEDIUM-15
	P	PARK-OPEN SPACE

60% CD SUBMITTAL

EDSA, Inc.
1512 E. Broward Blvd. Suite 110
Fort Lauderdale, FL 33301
954.524.3330

SEAL:

DRAWN BY: EDSA
DATE: 03/15/2016
DESIGNED BY: EDSA
SCALE: AS SHOWN
CHECKED BY: EDSA
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

LAND USE PLAN

SHEET NO.
L0-0.05
X OF XX

DRAWING FILE
11900-L0-005-LUSE.dwg

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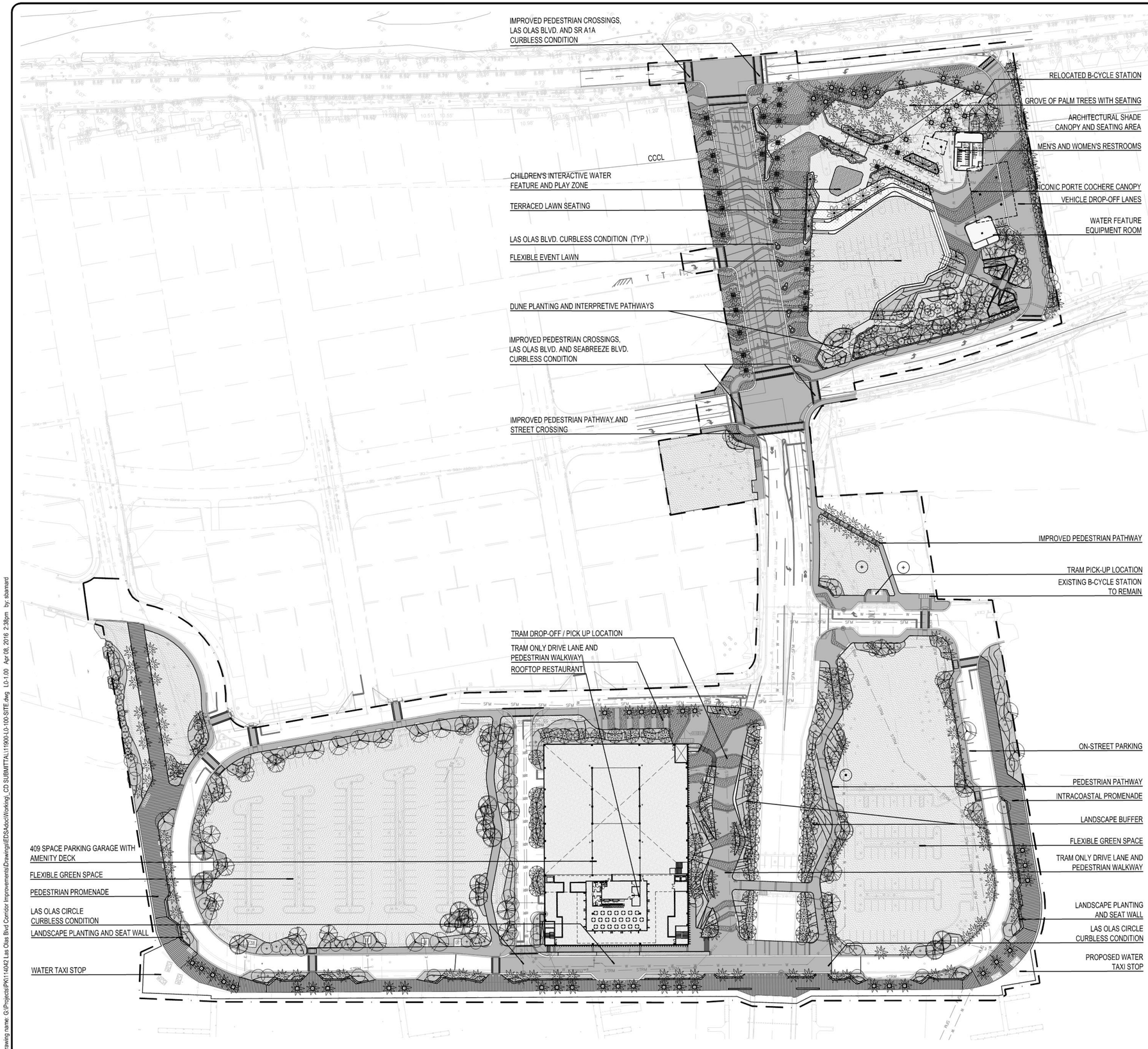

SITE PLAN DATA TABLE

CURRENT USE OF PROPERTY AND INTENSITY: N/A

LAND USE DESIGNATION:
CBRAC (CENTRAL BEACH REGIONAL ACTIVITY CENTER)

ZONING DESIGNATION:
PRD (PLANNED RESORT DEVELOPMENT)
ABA (A-1A BEACHFRONT AREA)
P (PARKS, RECREATION, AND OPEN SPACE)

WATER / WASTE WATER SERVICE PROVIDER: N/A

SITE AREA (SQ. FT. AND ACRES): 765,955 SF / 17.58 ACRES

BUILDING FOOTPRINT COVERAGE: 51,746 SF

RESIDENTIAL DEVELOPMENT
NUMBER OF DWELLING UNITS: 0
TYPE: N/A
FLOOR AREA(S): N/A
SITE DENSITY (GROSS AND NET): N/A

NON-RESIDENTIAL DEVELOPMENT
USES: PARKING GARAGE, PUBLIC RESTROOMS, AND MECHANICAL ROOM
GROSS FLOOR AREA: 245,673 SF

3

PARKING DATA:
EXISTING PARKING
OCEANSIDE LOT: 251 SPACES
241 METERED SPACES
9 ADA SPACES
1 LIFEGUARD SPACE

LAS OLAS INTRACOASTAL LOT: 494 SPACES
413 METERED SPACES
12 ADA SPACES
50 MARINA PARKING SPACES
19 ON-STREET PARKING SPACES

SOUTHSIDE LOT: 90 SPACES
76 METER SPACES
4 ADA SPACES
10 ON-STREET PARKING SPACES
TOTAL EXISTING SPACES WITHIN PROJECT LIMITS: 835

PROPOSED PARKING
OCEANSIDE LOT:
REQUIRED: 0 SPACES
PROPOSED: 0 SPACES

LAS OLAS INTRACOASTAL LOT:
REQUIRED: 134 SPACES
PROPOSED: 409

MARINA OFFICES / POLICE SUBSTATION: 5,850 SF
REQUIRED: 1/500 SF GFA = 12 SPACES

SUNDRY SHOP / TRANSIT OFFICE:: 922 SF
REQUIRED: 1/500 SF GFA = 2 SPACES

RESTAURANT CUSTOMER SERVICE: 13,639 SF
REQUIRED: 1/114 SF GFA = 120 SPACES

SOUTHSIDE LOT
REQUIRED: 0 SPACES
PROPOSED: 5 ON-STREET PARKING SPACES
TOTAL PROPOSED SPACES WITHIN PROJECT LIMITS: 414

FLOOR AREA RATIO (FAR): (.32)
(TOTAL BUILDING SQUARE FOOTAGE, INCLUDING STRUCTURED PARKING, DIVIDED BY SITE AREA)

BUILDING HEIGHT (EXPRESSED IN FEET ABOVE GRADE):
67'-6" INCLUDING AMENITY LEVEL RESTAURANT

STRUCTURE LENGTH: 261' X 186'

NUMBER OF STORIES: (4) STORIES PLUS AMENITY LEVEL

SETBACK TABLE:	REQUIRED	PROVIDED
A1A/SEABREEZE	20' FROM R.O.W.	N/A
SE 4TH ST.	20' FROM R.O.W.	45' FROM R.O.W. (13.8' FOR CANOPY)
LAS OLAS CIR.	10'-0"	11'-0"
LAS OLAS BRIDGE	20' FROM R.O.W.	61'-6"
BIRCH RD.	20' FROM R.O.W.	24'-6"

OPEN SPACE: 564,631 SF

VEHICULAR USE AREA: SEE PLANS, SHEET L6-0.02
LANDSCAPE AREA: SHRUBS: 86,029 SF
TURF: 208,182 SF

LINEAR FEET OF SIDEWALK PROPOSED: N/A

60% CD SUBMITTAL

EDSA, Inc.
1512 E. Broward Blvd. Suite 110
Fort Lauderdale, FL 33301
954.524.3330

SEAL:

DRAWN BY: EDSA
DATE: 03/15/2016
DESIGNED BY: EDSA
SCALE: AS SHOWN
CHECKED BY: EDSA
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	04/06/16	EDSA	EDSA	ADDENDUM - 3

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SITE PLAN

SHEET NO.
L0-1.00
X OF XX

DRAWING FILE
11900-L0-100-SITE.dwg

Drawing name: G:\Projects\PK\114042 Las Olas Blvd Corridor Improvements\Drawings\EDSA\doc\Working_CD SUBMITTAL\11900-L0-100-SITE.dwg L0-1.00 Apr 08, 2016 2:38pm by: sbarnard

CIRCULATION AND MOBILITY LEGEND

NOTE: CIRCULATION AND MOBILITY DIAGRAM TO BE REVIEWED AND APPROVED BY CITY OF FORT LAUDERDALE TRANSPORTATION AND MOBILITY. ONGOING COORDINATION WILL OCCUR THROUGH PERMIT DRAWINGS TO ADDRESS SITE IMPROVEMENTS SUCH AS THE LOCATIONS AND QUANTITIES OF:

A. BICYCLE RACKS
B. B-CYCLE STATION
C. BICYCLE AMENITIES (BIKE REPAIR, PUMP STATION, BIKE LOCKERS)
D. TRAM PICK-UP/DROP-OFF
E. MULTI-MODAL STATION REQUIREMENTS

LEGEND

- MM — MULTI-MODAL STATION
- TS — TRAM STOP
- VEHICULAR CIRCULATION
- MULTI-MODAL CIRCULATION (PEDESTRIAN, TRAM)
- BIKE CIRCULATION IMPROVEMENTS
- PS — PROPOSED B-CYCLE STATIONS
- RS — RELOCATED B-CYCLE STATIONS
- ES — EXISTING B-CYCLE STATIONS TO REMAIN
- BICYCLE REPAIR STATION
- WT — WATER TAXI STOP

NORTH

SCALE: 1"=60'-0"

0 30' 60' 120' 180'

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954.524.3330

SEAL:

DRAWN BY: EDSA
DATE: 03/15/2016
DESIGNED BY: EDSA
SCALE: AS SHOWN
CHECKED BY: EDSA
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

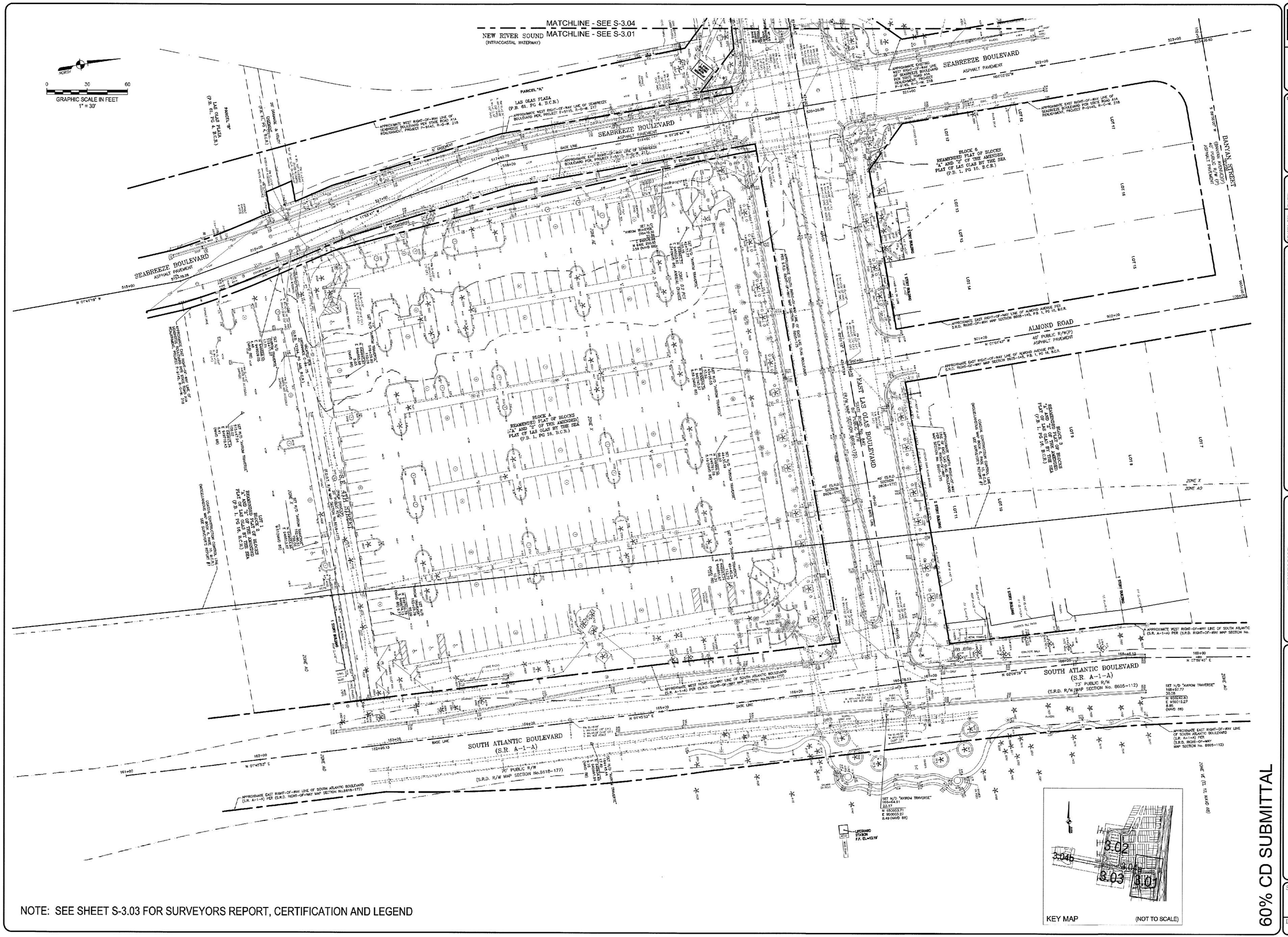
PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SITE MOBILITY PLAN

SHEET NO.
L0-2.00
X OF XX

DRAWING FILE
11900-L0-200-SITE-MBLY.dwg

Drawing name: G:\Projects\PK\114042 Las Olas Blvd Corridor Improvements\Drawings\EDSAdocs\Working_CD SUBMITTAL\11900-L0-200-SITE-MBLY.dwg L0-2.00 Feb 22, 2016 5:18pm by: sbarnard



NOTE: SEE SHEET S-3.03 FOR SURVEYORS REPORT, CERTIFICATION AND LEGEND

60% CD SUBMITTAL

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BOCA RATON, FLORIDA 33432
TEL. 561.392.2591
www.AVIROMSURVEY.com

SEAL:

DRAWN BY:	DATE: 03/15/2016
M.M.K.	
DESIGNED BY: EDSA	SCALE: AS SHOWN
CHECKED BY: M.D.A.	FIELD BOOK: 1681/1, 1682/1, 1730/69

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SURVEY OF EXISTING CONDITIONS

SHEET NO. S-3.01 X OF XX

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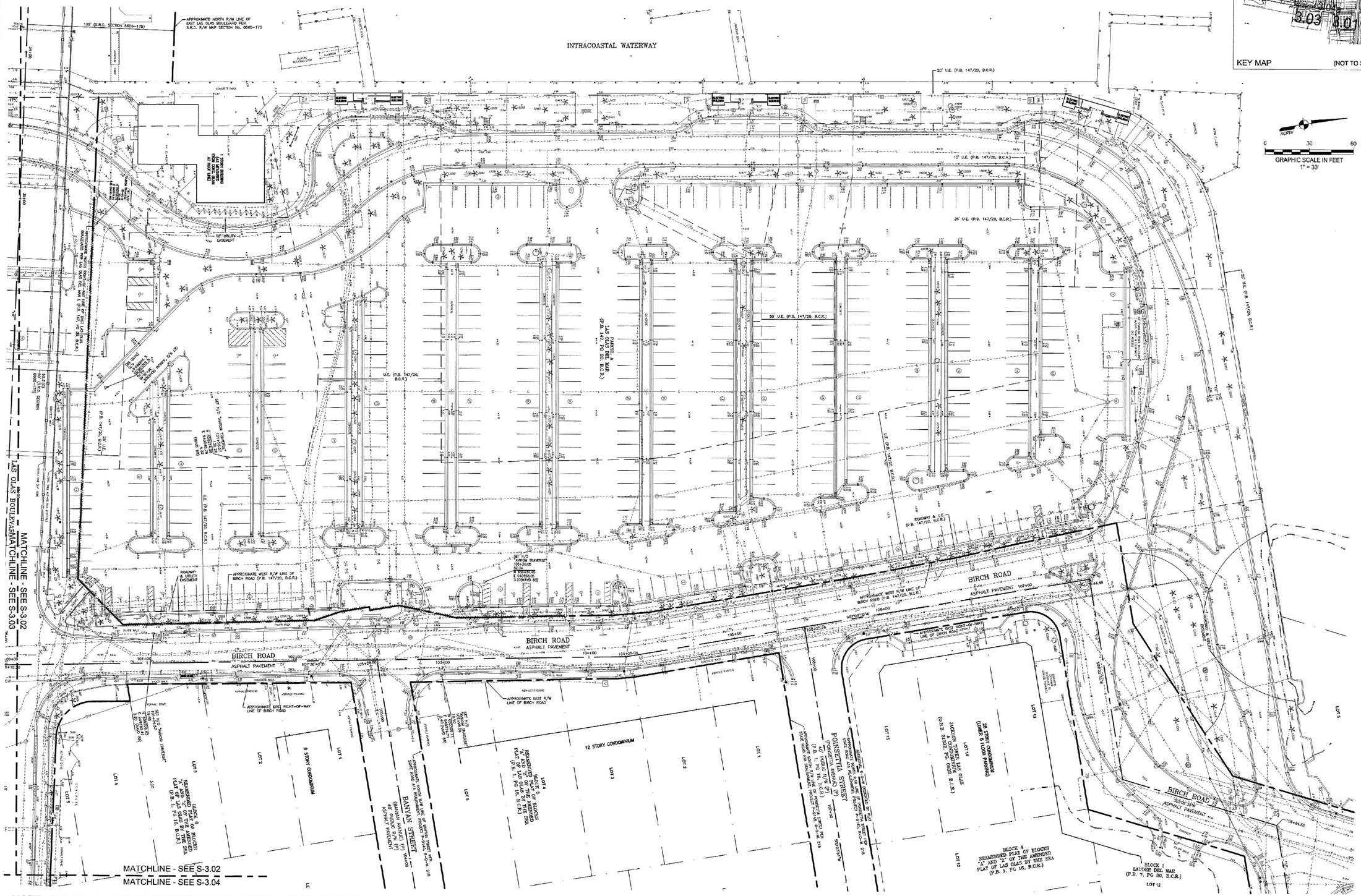
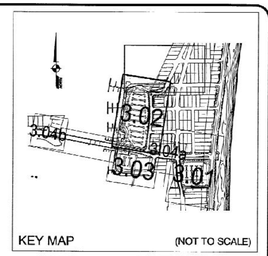


NOTE: SEE SHEET S-3.03 FOR SURVEYORS REPORT, CERTIFICATION AND LEGEND



KEY MAP (NOT TO SCALE)

NORTH

0 30 60

GRAPHIC SCALE IN FEET
1" = 30'

EDSA, Inc.
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www.AVIROMSURVEY.com

SEAL:

DATE: 03/15/2016	SCALE: AS SHOWN	
DRAWN BY: M.M.K.	DESIGNED BY: EDSA	FIELD BOOK: 1981/1, 1982/1, 1730/69
	CHECKED BY: M.D.A.	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO	DATE	BY	CHKD	DESCRIPTION

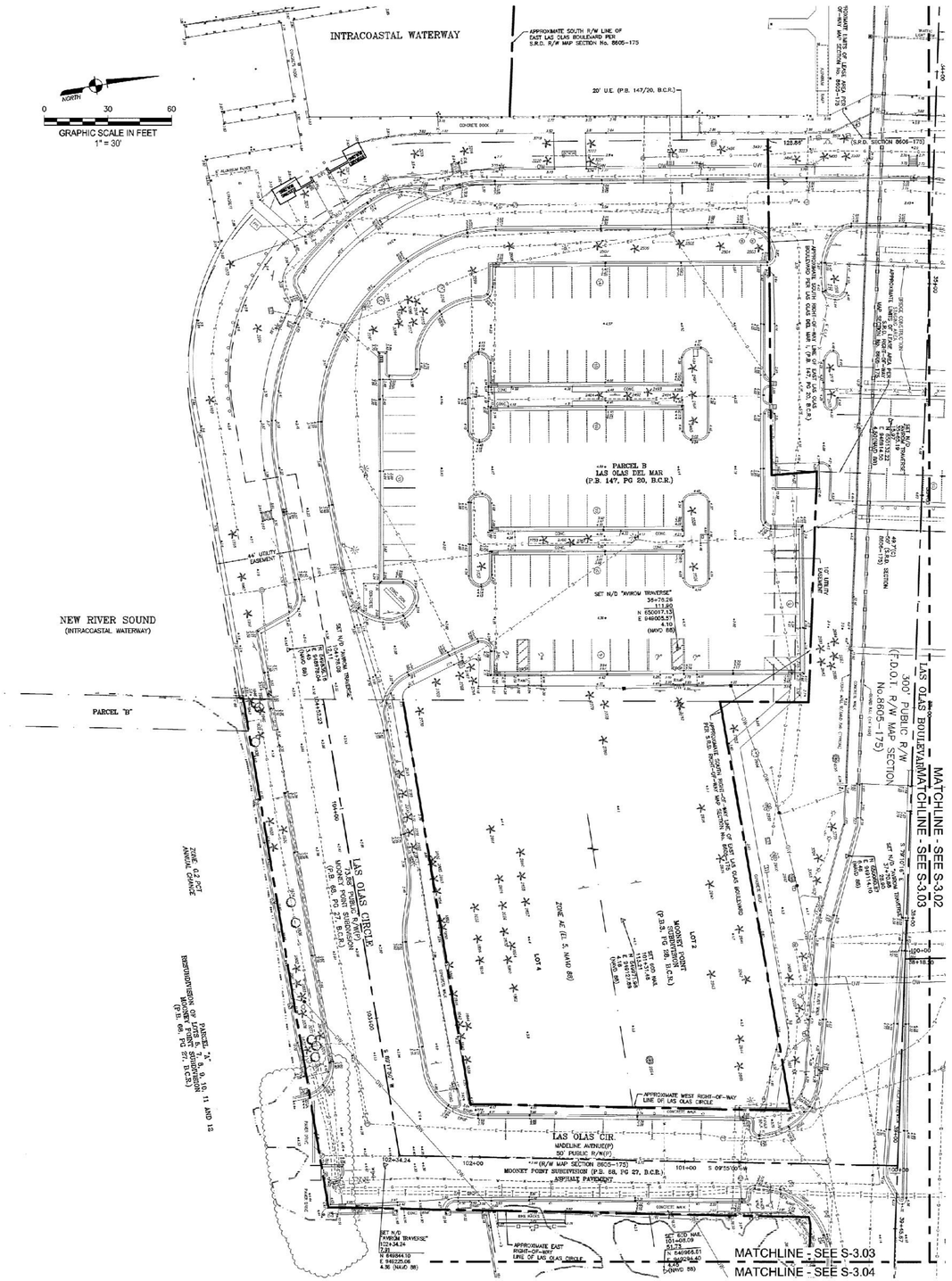
60% CD SUBMITTAL

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SURVEY OF EXISTING CONDITIONS

SHEET NO. S-3.02 X OF XX

DRAWING FILE 11900-S-3.01-S-3.04-SURV.dwg



LEGEND

- ANTENNA
- BACK FLOW PREVENTOR VALVE
- BENCHMARK
- BOLLARD (UNLESS NOTED)
- CABLE TELEVISION RISER
- CATCH BASIN
- CLEAN OUT
- CONCRETE LIGHT POLE
- CONCRETE UTILITY POLE
- CROSSWALK SIGNAL POLE
- CURB INLET
- DOUBLE DETECTOR CHECK VALVE
- DRAINAGE MANHOLE
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC OUTLET
- ELECTRIC SERVICE BOX
- 4.14 EXISTING ELEVATION
- FIRE HYDRANT
- FLAG POLE
- GAS METER
- GAS VALVE
- GREASE TRAP
- GUY ANCHOR
- HAND HOLE
- HANDICAP PARKING
- IRRIGATION CONTROL BOX
- IRRIGATION CONTROL VALVE
- MAIL BOX
- MONITORING WELL
- NON-VEHICULAR ACCESS LINE
- 5 NUMBER OF REGULAR PARKING
- OW OVERHEAD WIRES
- PARKING METER
- PILE
- CONCRETE PILE
- SANITARY MANHOLE
- SEWER VALVE
- SIAMESE CONNECTION
- SIGN (UNLESS NOTED)
- TELEPHONE MANHOLE
- TELEPHONE RISER
- TELEPHONE SERVICE BOX
- TRAFFIC LIGHT SUPPORT POLE
- TRAFFIC SIGNAL CONTROL RISER
- TRAFFIC SIGNAL SERVICE BOX
- UNDERGROUND GAS MARKER
- UNKNOWN MANHOLE
- UNKNOWN UTILITY SERVICE BOX
- VAULT
- WATER METER
- WATER VALVE
- WOOD LIGHT POLE
- WOOD UTILITY POLE
- WOOD UTILITY POLE WITH LIGHT
- YARD DRAIN
- YARD LIGHT

TREE LEGEND

- Banyan
- Black Olive
- Button Wood
- Ficus
- Gumbo Limbo
- Mahogany
- Norfolk Island Pine
- Oak
- Palm
- Poinciana
- Sea Grape
- Unknown Species
- 12 Denotes 12" Diameter Trunk (Typical)

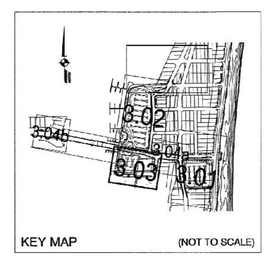
UNDERGROUND UTILITY LEGEND

- UNDERGROUND DRAINAGE LINE
- UNDERGROUND ELECTRIC CABLE
- UNDERGROUND FIRE LINE
- UNDERGROUND FIBER OPTIC CABLE
- UNDERGROUND FORCE MAIN
- UNDERGROUND GAS LINE
- UNDERGROUND IRRIGATION LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND TELEPHONE CABLE LINE
- UNDERGROUND CABLE TELEVISION LINE
- UNDERGROUND UNKNOWN UTILITY LINE
- UNDERGROUND UNKNOWN LINE
- UNDERGROUND WATER LINE

UNDERGROUND UTILITIES SHOWN HEREON WERE FLAGGED BY OTHERS (SEE SURVEYOR'S REPORT NO. __)

SURVEYOR'S REPORT:

1. Reproductions of this Sketch are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.
2. No Title Opinion or Abstract to the subject property has been provided. It is possible that there are Deeds, Easements, or other instruments (recorded or unrecorded) which may affect the subject property. No search of the Public Records has been made by the Surveyor.
3. The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guaranties that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located accurately as possible from information available. The surveyor has not physically located the underground utilities. Flagging of underground utilities in the field was performed by Ground Hound Detection Services, Inc. (Tel. 561 737-9800). Every effort has been made to obtain underground utilities pipe type and size, as shown. It is the responsibility of the end user to verify the invert and pipe size dimensions prior to design of new facilities.
4. Bearings and coordinates were established by a Real-time Kinematic (RTK) GPS Control Survey which is certified to a 2 centimeter local accuracy, relative to the nearest control point within the Eastern Broward County Horizontal GPS County Network - NAD 83(90) which is relative to the current adjustment of the North American Datum of 1983 (NAD 83/90), of the Florida State Plane Coordinate System (Transverse Mercator Projection), East Zone.
   a) Method: Virtual Reference Station GPS Network.
   b) Equipment Used: Trimble R8 GNSS (Dual Frequency Receiver).
   c) Processing Software: Trimble Geomatics Office, Version 1.63.
   d) Ties were made to Control Point "L29", "M29", "K30" and "M30"
5. Elevations indicated hereon are in feet and decimals referenced to the North American Vertical Datum of 1988 (NAVD 1988). To convert NAVD 1988 elevations to National Geodetic Vertical Datum of 1929 (NGVD 1929) for this property, the model value of 1.588 must be added algebraically to the NAVD 1988 height. This conversion was calculated utilizing the U.S. Army Corps of Engineers Program Corpscon for Windows, Version 6.0.1.
6. Benchmark Description: National Geodetic Survey Benchmarks "872 2939 M" (P.I.D. DM1512) Elevation = 5.24 feet (NAVD 88) and "872 2939 L" (P.I.D. DM1513), Elevation = 8.13 feet (NAVD 88); and the City of Fort Lauderdale Benchmarks "SE 108" (Top of curb @ SE cor of ELO & Poinsianne Dr) Elevation = 3.884 feet (NGVD 29), 2.296 feet (NAVD 88) and "SE 109" (Top of curb S side ELO & 24' W of C/L Ext Plaza Las Olas) Elevation = 5.558 feet (NGVD 29), 3.97 feet (NAVD 88).
7. The Coastal Construction Control Line (CCCL) shown on the survey is referenced to Miscellaneous Map Book 6, Page 10 of the Public Records of Broward County, Florida which was based on the State Plane Cordinate System of Florida East Zone North American Datum of 1927. Its position as shown is as transformed to the State Plane Coordinate System Florida East Zone North American Datum of 1983, 1990 adjustment as supplied by the Department of Environmental Protection (FDEP). As instructed by FDEP, some R-monuments were reset at a different location but with the same designation as depicted on the original CCCL plat. The surveyor relied on the position calculated by FDEP.
8. Data shown hereon was compiled from instrument(s) of record and does not constitute a Boundary Survey.
9. Symbols shown hereon and in the legend may have been enlarged for clarity. These symbols have been plotted at the center of the field location and may not represent the actual shape or size of the feature.
10. The species of trees as shown hereon were identified to the best of knowledge and ability of the surveyor, without the benefit of an arborist or biologist. It is the responsibility of the end user to verify the identity of the species. Trees on the survey are depicted by a point number and referenced to the accompaning Tree List.
11. This map is intended to be displayed at a scale of 1:240 (1"=20').
12. Units of measurement are in U.S. Survey Feet and decimal parts thereof. Well identified features in this survey were field measured to a horizontal positional accuracy of 0.10'. The elevations on impervious surfaces were field measured to 0.03' and on ground surfaces to 0.1'.
10. Flood Zone lines and designation depicted on the survey are per Federal Emergency Management Agency (FEMA), Community Panel No. 12011C0576H (NAVD 1988 datum), effective date 08/18/2014. These lines as depicted are approximate since they were captured digitally from the Broward County Website (www.broward.org), scaled to existing features within the project limits and digitized. It is the responsibility of the end user to verify.
13. The hereon survey does not comply with Chapter 177, Part II Florida Statutes as a Mean High Water Survey. The Atlantic Ocean Mean High Water Elevation at the subject site is 0.38 feet (NAVD 1988) as located on 05/29/2014. Seasonal High Water Elevation is 3.425 feet (NAVD 1988). Both the Mean High Water and Seasonal High Water Elevation are based on information provided by the Florida Department of Enviromental Protection on 12/02/2013. Seasonal High Water Elevation is equal to the elevation of the Mean High Water plus 150% of the Mean Range.
14. Abbreviation Legend: A/C = Air Conditioner; A.E. = Anchor Easement; APPROX. = Approximate; B.C.R. = Broward County Records; BLDG. = Building; B.M. = Benchmark; C = Calculated; Δ = Central Angle; ℄ = Centerline; CCCL = Coastal Construction Control Line; C.L.F. = Chain Link Fence; C.M. = Concrete Monument; C.M.P. = Corrugated Metal Pipe; CONC. = Concrete; C.P. = Concrete Pipe; D = Per Deed; D.B. = Deed Book; D.E. = Drainage Easement; D.I.P. = Ductile Iron Pipe; = Existing Elevation; EL. = Elevation; ELEC. = Electric; ESMT. = Easement; F.B. = Field Book; FD. = Found; F.F. = Finished Floor; FM = Force Main; F.P.L. = Florida Power & Light Company; ID. = Identification; INV. = Invert; I.P. = Iron Pipe; I.R. = Iron Rod; L = Arc Length; L.B. = Licensed Business; L.M.E. = Lake Management Easement; MHW = Mean High Water; MS = Measured; NAD = North American Datum; NAVD = North American Vertical Datum; N/D = Nail & Disk; NGVD = National Geodetic Vertical Datum; N.R. = Non Radial; N/TT = Nail & Tin Tab; O.R.B. = Official Records Book; O/S = Offset; OW = Overhead Wires; P = Per Record Plat; P.B. = Plat Book; P.C. = Point of Curvature; PG. = Page; PK = Parker-Kalon; P.L.S. = Professional Land Surveyor; P.R.M. = Permanent Reference Monument; P.S.M. = Professional Surveyor & Mapper; P.T. = Point of Tangency; R = Radius; R.C.P. = Reinforced Concrete Pipe; R.L.S. = Registered Land Surveyor; R/W = Right-of- Way; S.R. = State Road; STA. = Station; TR = Trash Can; TYP. = Typical; U.E. = Utility Easement; W/ = With; W/CAP = With Surveyors Cap.
15. THE FIELD WORK WAS COMPLETED ON 06/25/2014.



KEY MAP (NOT TO SCALE)

CERTIFICATION:

I HEREBY CERTIFY that the attached Topographic Survey of the hereon described property is true and correct to the best of my knowledge and belief as surveyed in the field under my direction. I FURTHER CERTIFY that this Topographic Survey meets the Minimum Technical Standards set forth in Chapter 5J-17.050 through 5J-17.052, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

Date: _____

_____
MICHAEL D. AVIROM, P.L.S.
Florida Registration No. 3268
AVIROM & ASSOCIATES, INC.
L.B. No. 3300
EMAIL: mike@aviromsurvey.com

EDSA, Inc.
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Fort Lauderdale, FL 33301
954.524.3330

AVIROM & ASSOCIATES, INC.
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BOCA RATON, FLORIDA 33432
TEL. 561.392.2594
www.AVIROMSURVEY.com

SEAL:

DRAWN BY:	DESIGNED BY:	CHECKED BY:	DATE:	SCALE:	FIELD BOOK:
M.M.K.	EDSA	M.D.A.	03/15/2016	AS SHOWN	1681/1, 1682/1, 1730/69

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

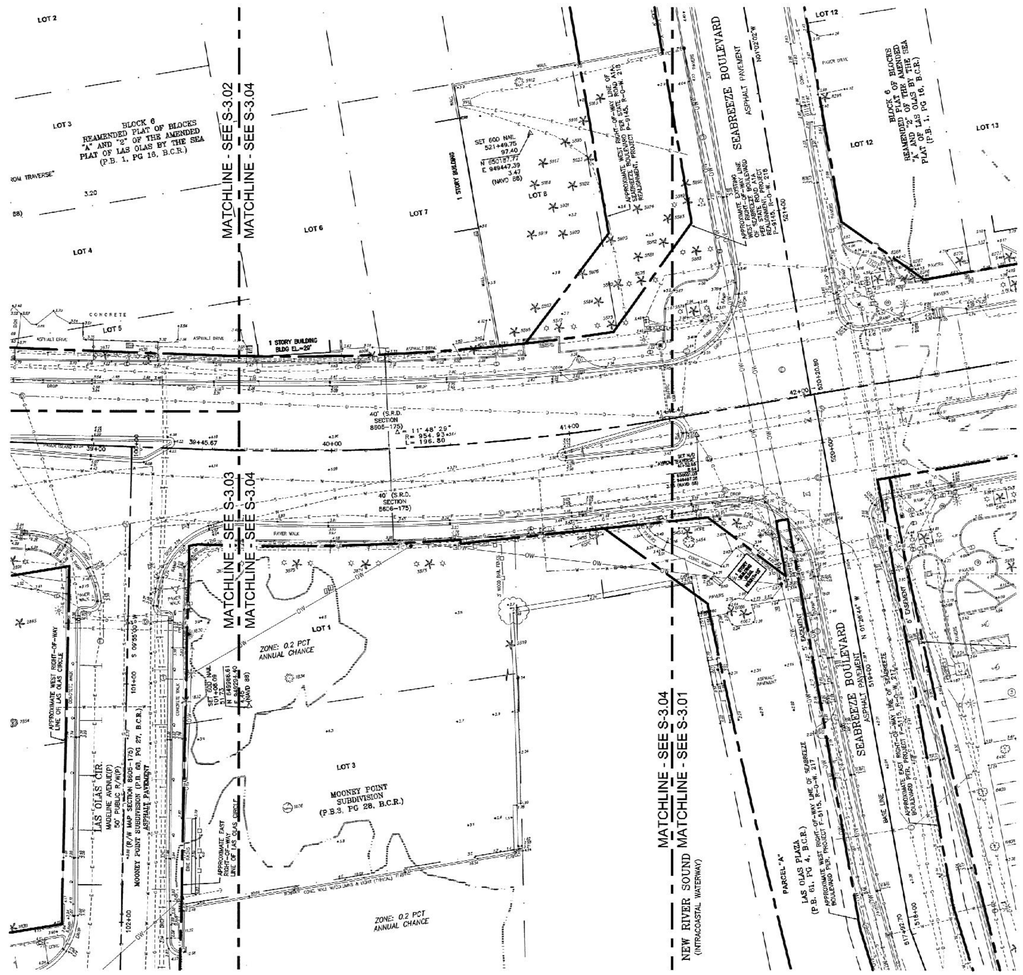
60% CD SUBMITTAL

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SURVEY OF EXISTING CONDITIONS

SHEET NO. S-3.03 X OF XX

DRAWING FILE 11900-S-3.01-S-3.04-SURV.dwg



3.04a

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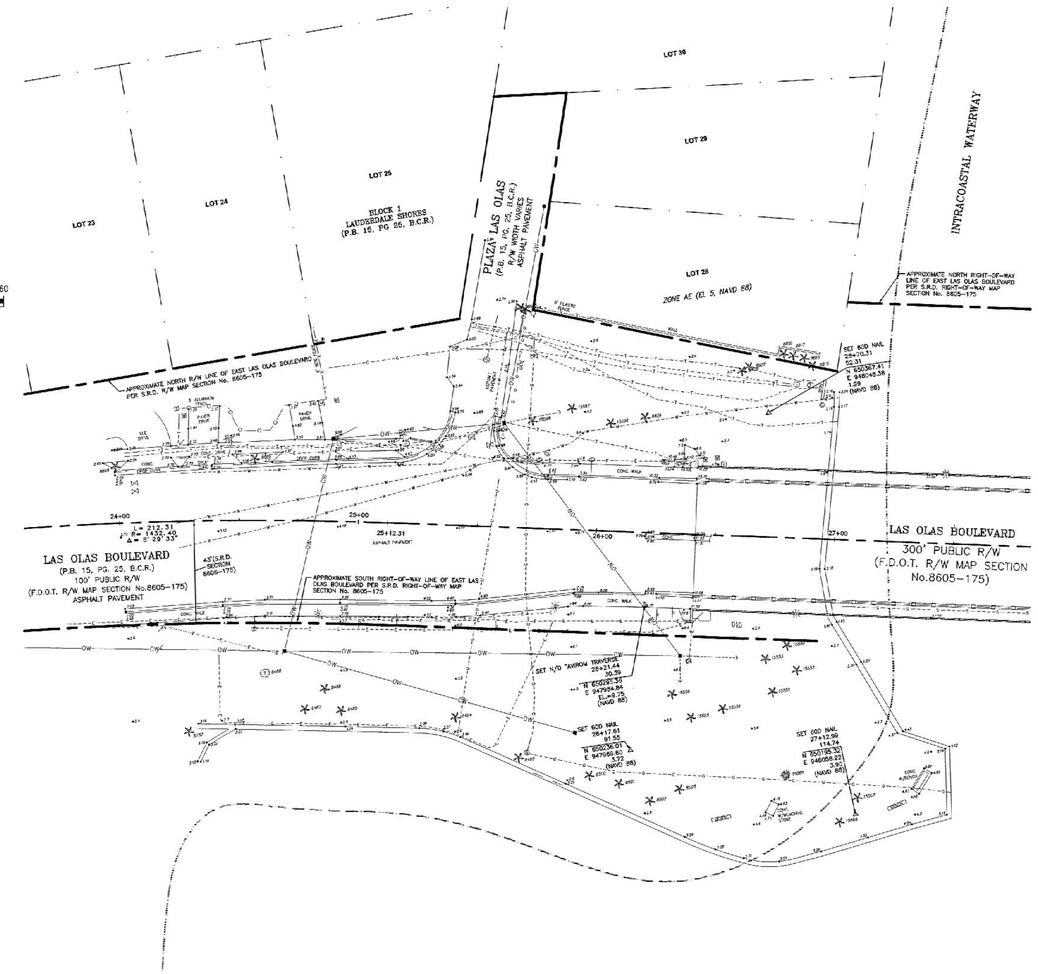
GRAPHIC SCALE IN FEET
1" = 30'



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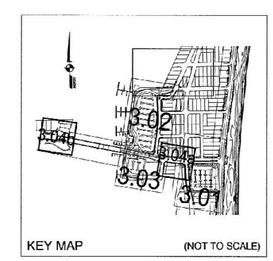

KEY MAP (NOT TO SCALE)

NOTE: SEE SHEET S-3.03 FOR SURVEYORS REPORT, CERTIFICATION AND LEGEND

60% CD SUBMITTAL

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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS:

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SURVEY OF EXISTING CONDITIONS

SHEET NO. S-3.04 X OF XX

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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED. REMOVING TREES. STUMPS. ROOTS. MUCK. EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 2 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MUST CALL THE UTILITY COMPANIES BEFORE COMMENCING WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS. SPECIFICATIONS. AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
6. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE ENGINEER.
7. ALL COPIES OF COMPACTION. CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS, WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE, THE ENGINEER, LANDSCAPE ARCHITECT, COUNTY, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES FROM THE SPECIFICATIONS OR PLANS.
12. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION.
13. CONTRACTOR IS ADVISED THAT THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN THE SAME. A COPY SHALL BE SENT TO THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND THE OWNER.
14. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF PROPOSED EXCAVATION." THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 2 WORKING DAYS AND A MAXIMUM OF 5 WORKING DAYS PRIOR TO EXCAVATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE LOCAL ELECTRICAL PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS RELATED TO SITE WORK INCLUDING (BUT NOT LIMITED TO) LANDSCAPE, IRRIGATION, SITE LIGHTING, BUILDING FOUNDATION, PLUMBING, FIRE SPRINKLER, AND OTHER APPLICABLE PLANS FOR CONFLICTING INFORMATION AND ALERT OWNER'S REPRESENTATIVE OF ANY CONFLICT FOR RESOLUTION.
17. CONTRACTOR SHALL VERIFY LOCATION OF ALL IRRIGATION, STREET LIGHTING, AND ELECTRICAL CONDUIT THAT WILL BE IN CONFLICT WITH ANY PROPOSED CONSTRUCTION AND SHALL RESOLVE CONFLICT ACCORDINGLY. COST OF CONFLICT RESOLUTION SHALL BE INCLUDED IN THE BID.
18. ANY DEBRIS RESULTING FROM STRIPPING AND DEMOLITION OPERATIONS SHALL BE REMOVED FROM THE SITE AT FREQUENT INTERVALS TO PREVENT THIS MATERIAL FROM ACCUMULATING ON SITE.
19. UPON REMOVAL OF TREES, SHRUBS OR ANY STUMP GRINDING, NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER PAVED FOOTINGS OR PAVED AREAS.
20. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL COUNTY OR STATE SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS, WHICHEVER IS MOST RESTRICTIVE.
2. ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED, UNLESS OTHERWISE NOTED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED WITH BAHIA SOD UNLESS INDICATED OTHERWISE ON THE ENGINEERING OR LANDSCAPE PLANS.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER PRIOR TO ANY EXCAVATION.
11. CONTRACTOR TO STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED AS SPECIFIED IN THE PLANS. FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL A GOOD STAND OF GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

MAINTENANCE

1. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
2. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION. INLET PROTECTION DEVICES SHALL BE CLEANED OUT AT REGULAR INTERVALS OR AS THEY BECOME FULL OF DEBRIS.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
4. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
5. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
6. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION AND SEDIMENTATION CONTROL PLAN, THE STANDARD DETAILS, AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS PROVIDED BY THE CONTRACTOR.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION AND SEDIMENTATION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
11. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
12. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
17. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION AND SEDIMENTATION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
19. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES AS NECESSARY AS CONSTRUCTION PROGRESSES (SILT FENCES, ETC.,) TO PREVENT EROSION.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
21. EROSION AND SEDIMENTATION CONTROL PLANS PROVIDED HEREIN ARE A GUIDELINE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE FINAL STORM WATER POLLUTION PREVENTION PLAN. THE PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER WHICH DEMONSTRATES THE MECHANISMS AND PRACTICES THAT WILL BE EMPLOYED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREA DURING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT REQUIREMENTS PERTAINING TO POLLUTION PREVENTION PLANS. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE LOCATIONS OF SILT BARRIERS, TURBIDITY SCREENS OR TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND OTHER METHODS TO PREVENT POLLUTION. REFUELING OR STORAGE OF VEHICLES OR EQUIPMENT THAT UTILIZE PETROLEUM BASED PRODUCTS SHALL BE PROHIBITED ANYWHERE WITHIN 50 FEET OF A WATER'S EDGE. THE PLAN SHALL BE SUBMITTED TO THE OWNER AFTER NOTICE OF AWARD AND PRIOR TO NOTICE TO PROCEED. AFTER REVIEW BY OWNER THE PLAN SHALL BE FILED WITH ALL APPLICABLE REGULATORY AGENCIES BY THE CONTRACTOR. REFER TO FURTHER NOTES AND DETAILS WITHIN THESE DOCUMENTS.
22. SILT FENCE IS REQUIRED AS SHOWN ON THE PLANS AND ANYWHERE ADDITIONAL AS REQUIRED BY CONSTRUCTION. SILT FENCE IS NOT APPLICABLE IN PAVEMENT AREAS. LIMITS OF CONSTRUCTION SHOWN ARE DIAGRAMATIC. CONTRACTOR TO PROVIDE PLAN FOR SHOP DRAWING REVIEW.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

WATER AND SEWER UTILITY NOTES

1. ALL CONSTRUCTION SHALL MEET OR EXCEED THE LOCAL WATER AND SEWER REQUIREMENTS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SPECIFICATIONS AND DETAILS FROM THE LOCAL AGENCY.
2. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES AND GRAVITY SEWER LINES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE. BRACE. SWING OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING OF ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE AS-BUILT BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
10. ALL PIPES AND CONNECTIONS ARE TO BE RESTRAINED IN ACCORDANCE WITH THE DETAILS OR JURISDICTIONAL AGENCY REQUIREMENTS. WHICHEVER IS MOST STRINGENT.
11. ALL WATER DISTRIBUTION SYSTEM MATERIALS (INCLUDING SERVICES) AND INSTALLATION SHALL CONFORM TO THE SPECIFICATIONS OF THE LOCAL WATER PROVIDER AS PROVIDED IN THEIR STANDARD SPECIFICATIONS MANUAL AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SPECIFICATION MANUALS PRIOR TO BIDDING THE PROJECT.
12. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(b)3, USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN. OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO. OR APPLIED TO. THE PIPE WALL. PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE. THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE: FOR PIPE WITH AN INTERNAL DIAMETER OR 24" OR GREATER. TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
13. ALL WATER MAINS ARE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, HAVE COMPRESSION TYPE BELL JOINTS AND BE EITHER ANSI/AWWA C-151/A21.51-02 DUCTILE IRON PIPE (D.I.P.), CLASS 50 FOR 6" DIAMETER PIPE AND LARGER AND CLASS 51 IF PIPE DIAMETER IS SMALLER THAN 6" OR ANSI/AWWA C-900-97. PVC PIPE WITH A MAXIMUM SDR OF 18. ALL D.I.P. WATER MAINS SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARDS. ALL D.I.P. FORCE MAINS SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING APPROXIMATELY ONE MIL THICK IN ACCORDANCE WITH ANSI 21.51-8. CEMENT MORTAR LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION. ALL D.I.P. FORCE MAINS AND GRAVITY SEWER MAINS SHALL BE COATED INSIDE WITH POLYBOND VIRGIN POLYETHYLENE COMPLYING WITH A.S.T.M. DESIGNATION D 1248 AND HAVE A MINIMUM "N" VALUE OF 0.012. SEE PROJECT SPECIFICATIONS MANUAL FOR MORE DETAILS. OR PROTECTOR 401 CEREMIC EPOXY. ALL D.I.P. PIPE SHALL BE LAID WITH A MINIMUM OF 30" CLEAR COVER. ALL PVC PIPE SHALL BE LAID WITH A MINIMUM OF 36" CLEAR COVER.
14. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER(OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVE

PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND ITSELF.
2. THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811)" AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
6. CONTRACTOR SHALL COORDINATE ALL WORK PERTAINING TO THIS PROJECT WITH CITY OF FORT LAUDERDALE PROJECT #11681 "SR A1A STREETSCAPE IMPROVEMENTS" (AND FDOT 3R PROJECT FPID #430601-1-52-01 TITLE: SRA1A FROM BRIDGE OVER MERCEDES RIVER TO SUNRISE BRIDGE OVER THE INTRACOASTAL.
7. CONTRACTOR SHALL COORDINATE WITH THE CITY OF FORT LAUDERDALE UTILITIES DEPARTMENT FOR INFORMATION REGARDING THE WATER MAIN AND SEWER FORCE MAIN DIRECTIONAL BORES AND INTERCONNECT

CONSTRUCTION SAFETY

1. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

TRENCH SAFETY ACT

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED. THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
   - A. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   - B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXACTION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   - C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM "2" TO THE ENGINEER PRIOR TO STARTING WORK.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO REMAIN. ALL ITEMS NOTED TO BE REMOVED SHALL BE PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION. CONTRACTOR TO SEE LANDSCAPE PLAN FOR TREE PROTECTION REQUIREMENTS. CONTRACTOR SHALL MARK IN THE FIELD EXISTING TREES TO REMAIN. SHOULD ANY TREE TO BE REMAIN BE DAMAGED BY THE CONTRACTOR, IT WILL REQUIRE REPLACEMENT IN KIND, OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

INTERRUPTION OF EXISTING UTILITIES

1. ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR. EACH CUSTOMER AFFECTED BY THE SHUT DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

SURVEY DATA

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
2. THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO SURVEY MAKERS DURING CONSTRUCTION. ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
3. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

MINIMUM REQUIRED AS-BUILT INFORMATION

1. UPON THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF AS-BUILT CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SINGED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
2. ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER HAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
3. UTILITY CROSSING SEPARATION INFORMATION PROVIDED ON THE PLANS VERIFYING:
   - A. SIZE AND MATERIAL OF CROSSING PIPES
   - B. TOP ELEVATION OF BOTTOM PIPE
   - C. BOTTOM ELEVATION OF TOP PIPE
   - D. CLEARANCE BETWEEN PIPES
   - E. FINISH SURFACE ELEVATION OVER UTILITY CROSSING
3. STORM DRAINAGE:
   - A. TOP ELEVATION OF EACH MANHOLE FRAME AND COVER / GRATE AS WELL ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.).
   - B. INVERT ELEVATION OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES.
   - C. INVERTS OF ALL MITERED END SECTIONS
   - D. ACTUAL GRADE OF PIPE BETWEEN THE STRUCTURES
   - E. INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
   - F. CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT DIMENSIONS AND ELEVATIONS OF THE STORM WATER MANAGEMENT AREAS IMMEDIATELY AFTER FINAL GRADING AND PRIOR TO SEEDING OR SODDING OF THE SLOPES. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE CROSS SECTIONS ON ALL SIDES OF THE WATER MANAGEMENT AREAS AT 100-FOOT INTERVALS. THE CROSS SECTIONS SHALL BE PROVIDED FROM TOP OF BANK TO THE SLOPE BREAK BELOW CONTROL ELEVATION THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO GRASSING OF THE BANK. IF ANY MODIFICATIONS ARE SPECIFIED, ADDITIONAL AS-BUILTS MAY BE REQUIRED.
   - G. ALL SLEEVES, FITTINGS, TEES, BENDS, VALVES, ETC. SHALL BE LOCATED BY STATION/OFFSET OR BY STATE PLANS COORDINATES AND ELEVATION ON TOP OF PIPE FOR ALL CONSTRUCTED SLEEVING. AS-BUILTS FOR ALL SLEEVING DEPICTING TOP OF POPE AT 100-FOOT INTERVALS MUST BE PROVIDED.
4. PRESSURE SYSTEMS (WATER, FIRE, FORCE MAIN):
   - A. ACTUAL LENGTHS BETWEEN BRANCHES AND VALVES ALONG THE MAIN RUN.
   - B. TOP OF PIPE AND FINISHED GRADE ELEVATIONS AT 100' INTERVALS.
   - C. LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
   - D. ALL OTHER REQUIRED PRESSURE PIPE INFORMATION IN ACCORDANCE WITH THE AS-BUILT REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
5. LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
6. REVISIONS TO ROUTING OF PIPING AND CONDUITS.
7. REVISIONS TO ELECTRICAL CIRCUITRY.
8. ACTUAL EQUIPMENT LOCATIONS.
9. CHANGES MADE BY CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE.
10. CHANGES MADE FOLLOWING ENGINEER'S WRITTEN ORDERS.
11. IDENTIFICATION OF ADDENDUM ITEMS ISSUED DURING BIDDING PERIOD.
12. DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS.
13. FIELD RECORDS FOR VARIABLE AND CONCEALED CONDITIONS.
14. CONTROL STRUCTURES SHALL BE AS-BUILT, INCLUDING THE BLEEDER AND/OR WEIR INVERT TOP ELEVATIONS AND SIZES, RIM AND INVERTS OF STRUCTURE. AT THE TIME OF THE CONTROL STRUCTURE INSTALLATION, A PERMANENT BENCHMARK SHOULD BE INSTALLED ON TOP OF THE STRUCTURE WITH THE ELEVATION CLEARLY DEFINED.
15. RECORD DRAWING SHALL BE AS-BUILTDATA FOR EVERY ELEVATION SHOWN ON PLANS
16. IF A NEW BENCHMARK LOCATION IS ESTABLISHED, CONTRACTOR SHALL PROVIDE A BENCH LOOP CLOSURE TO THE CLOSEST EXISTING BENCHMARKS IN BOTH DIRECTIONS. ALL BENCHMARK DATA SHALL BE SUBMITTED BY A REGISTERED LAND SURVEYOR.
17. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL AS-BUILT DATA FOR UTILITIES AND SLEEVING IS COLLECTED PRIOR TO PAVEMENT SECTION CONSTRUCTION. PRELIMINARY UTILITY AS-BUILTS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PAVEMENT SECTION CONSTRUCTION.

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73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS:

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

GENERAL NOTES

SHEET NO. C1-0.02 X OF XX

DRAWING FILE 11900-MULTI-NOTE

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C1-0.02 GENERAL NOTES February 20, 2016 03:24:23pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-NOTE.dwg
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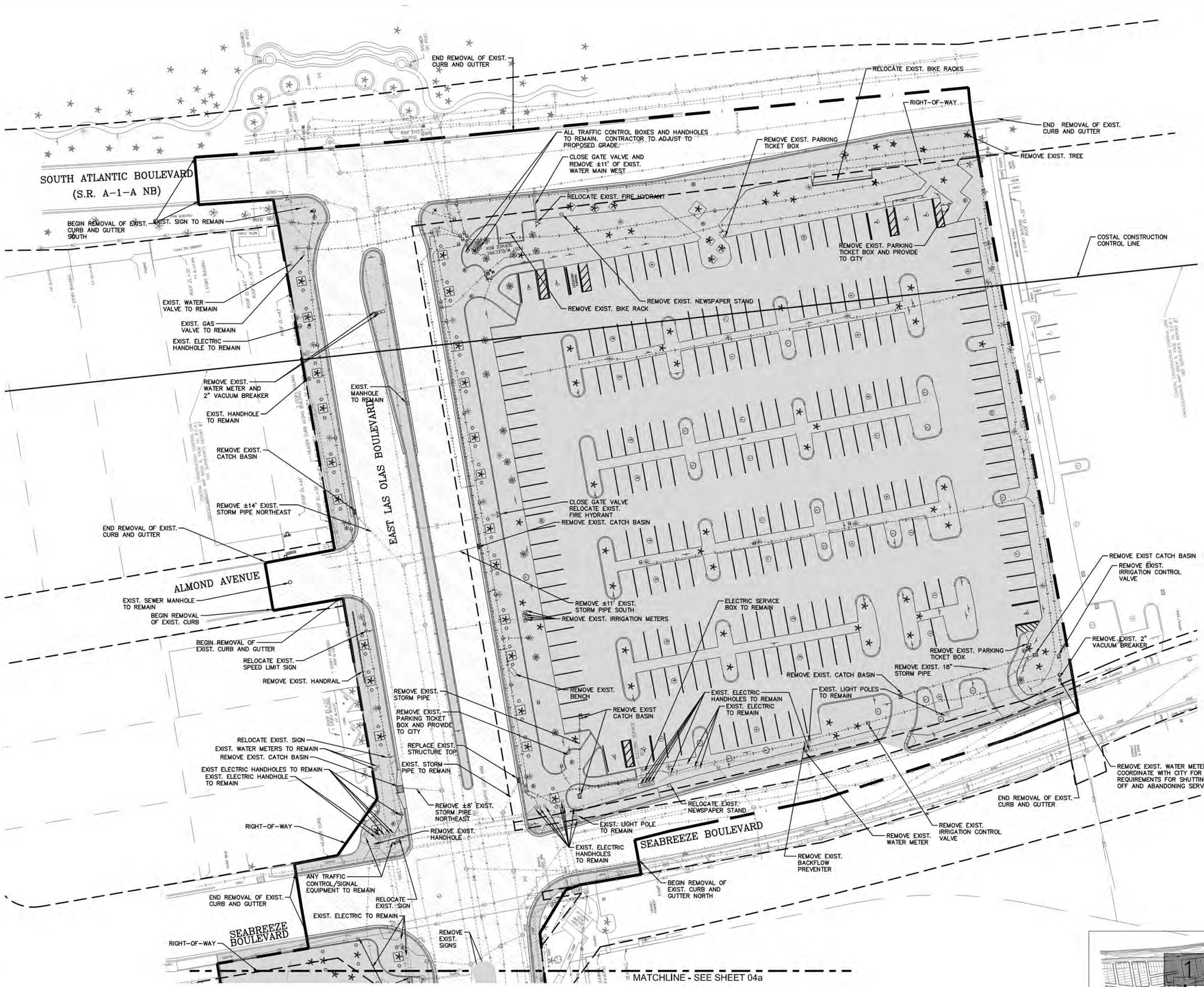

LEGEND:

	REMOVE ASPHALT
	REMOVE EXISTING CURB, ASPHALT, BASE MATERIAL, CONCRETE, PAVERS, BUILDINGS, SIGNS, LIGHT POLES, LANDSCAPE LIGHTING, AND TREES UNLESS SPECIFICALLY CALLED OUT TO REMAIN
	MILL AND RESURFACE
	EXISTING TRASH CAN TO BE REMOVED PER NOTE 8
	EXISTING WATER MAIN TO BE REMOVED
	EXISTING GRAVITY SEWER MAIN TO BE REMOVED
	EXISTING SEWER FORCE MAIN TO BE REMOVED
	EXISTING STORM PIPE TO BE REMOVED
	EXISTING ELECTRIC REFER TO ELECTRICAL PLANS
	EXISTING GAS TO BE REMOVED
	EXISTING TELEPHONE TO BE REMOVED
	EXISTING TREES TO BE REMOVED
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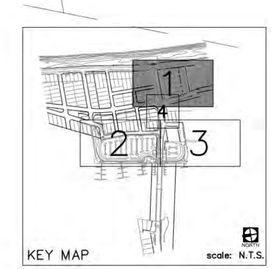
	EXISTING GRAVITY SEWER MAIN TO REMAIN
	EXISTING SEWER FORCE MAIN TO REMAIN
	EXISTING STORM PIPE TO REMAIN
	EXISTING ELECTRIC TO REMAIN
	EXISTING GAS TO REMAIN
	EXISTING TELEPHONE TO REMAIN
	EXISTING TREES TO REMAIN

NOTES:

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION AND DETAILS.
3. ALL LIGHT POLES WITHIN LIMITS OF DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE.
4. ANY ITEMS NOT SPECIFICALLY NOTED TO BE REMOVED SHALL REMAIN.
5. ANY ITEMS NOTED TO BE RELOCATED SHALL BE REMOVED AND STORED IN A SECURE LOCATION. ANY LOST OR DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. ANY REMOVAL OF THE ABANDONED 12" SEWER FORCE MAIN MUST BE COORDINATED THROUGH RICK JOHNSON AT THE CITY OF FORT LAUDERDALE (954.828.7809) TO ENSURE THAT THE 12" FORCE MAIN WAS VALVED-OFF, AND THAT SUCH VALVES LOCATED TO THE SOUTH HAVE REMAINED IN A CLOSED POSITION TO AVOID ANY SEWER SPILLAGE.
7. ANY VALVES, BOXES, MANHOLES, HANDHOLES, METERS, AND OTHER SUCH ITEMS TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED ELEVATION AND SLOPE.
8. ALL TRASH CANS, SIGNS, BIKE RACKS AND OTHER FURNISHINGS REMOVED SHALL BE PROVIDED TO THE CITY FOR POTENTIAL REUSE.
9. ALL ELECTRICAL CONDUIT, WIRING, AND HANDHOLES ASSOCIATED WITH REMOVED LIGHT POLES SHALL BE REMOVED. ELECTRIC REMOVAL IS SHOWN BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT INDICATE EXACT CONNECTIVITY. CONTRACTOR SHALL VERIFY PRIOR TO COMMENCING REMOVAL.
10. CONTRACTOR SHALL COORDINATE ALL GAS MAIN/SERVICE REMOVAL WITH DAVID RIVIERA FROM TECO PEOPLE'S GAS (954.453.0794).
11. CONTRACTOR SHALL PROVIDE TEMPORARY PUMPING (IF NEEDED) FOR THE RELOCATED 16" WATER MAIN. THE PROPOSED RELOCATION MUST BE CONSTRUCTED AND CERTIFIED TO THE CITY OF FORT LAUDERDALE AND BROWARD COUNTY HEALTH DEPARTMENT PRIOR TO THE BEGINNING THE REMOVAL OF THE EXISTING UTILITY SYSTEM.
12. CONTRACTOR SHALL PROVIDE TEMPORARY PUMPING (IF NEEDED) FOR THE GRAVITY SEWER RELOCATION. THE PROPOSED RELOCATION MUST BE CONSTRUCTED AND CERTIFIED TO THE CITY OF FORT LAUDERDALE AND BROWARD COUNTY PRIOR TO BEGINNING THE REMOVAL OF THE EXISTING SEWER SYSTEM.
13. SEE ELECTRICAL PLANS FOR THE REMOVAL OF EXISTING ELECTRICAL HANDHOLES AND CONDUITS



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

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DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

DEMOLITION PLAN

SHEET NO. C2-1.01 X OF XX

DRAWING FILE 11900-MULTI-DEMO

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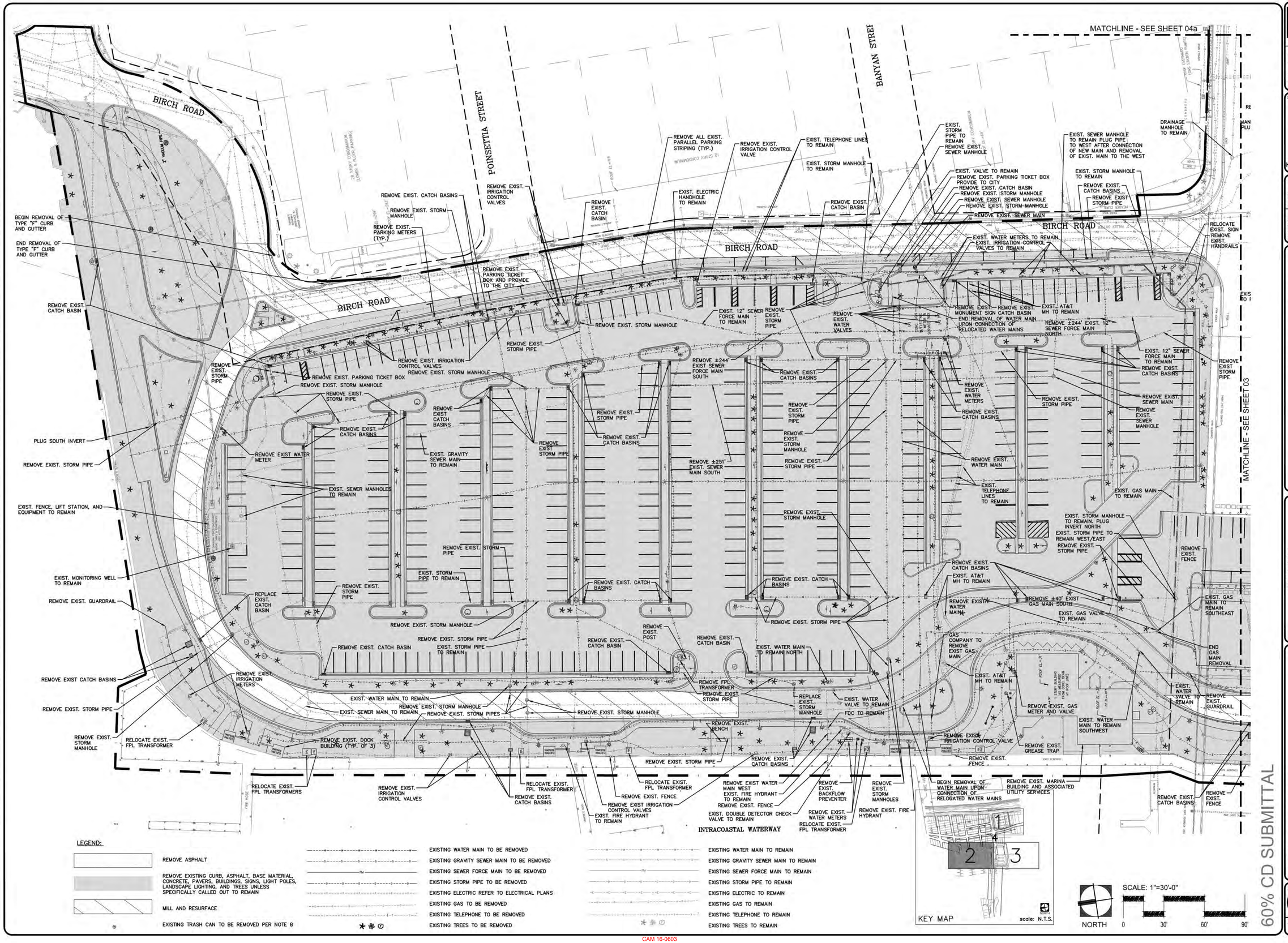

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

DEMOLITION PLAN

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SHEET NO. C2-1.02 | X OF XX

DRAWING FILE 11900-MULTI-DEMO

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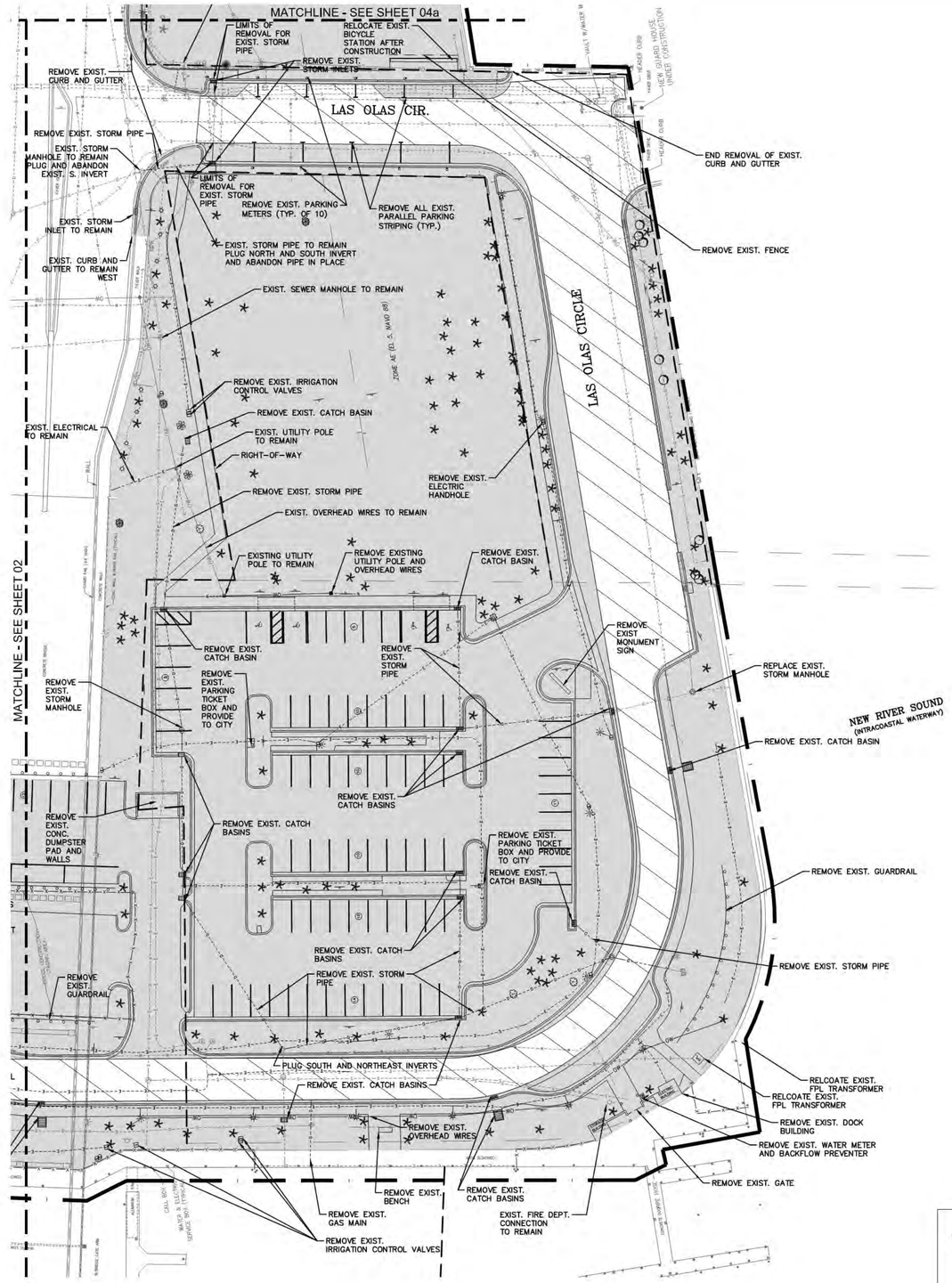

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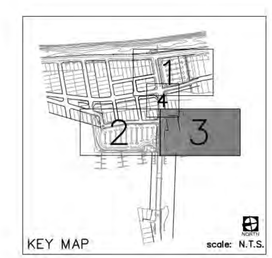

KEY MAP

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

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SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS:

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

DEMOLITION PLAN

SHEET NO. C2-1.03 X OF XX

DRAWING FILE 11900-MULTI-DEMO

Plotted By:Webber, Jason Sheet Set:LAS OLAS CORRIDOR IMPROVEMENTS Layout:C2-1.03 DEMOLITION PLAN February 20, 2016 03:25:22pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C2-1.04 DEMOLITION PLAN.dwg
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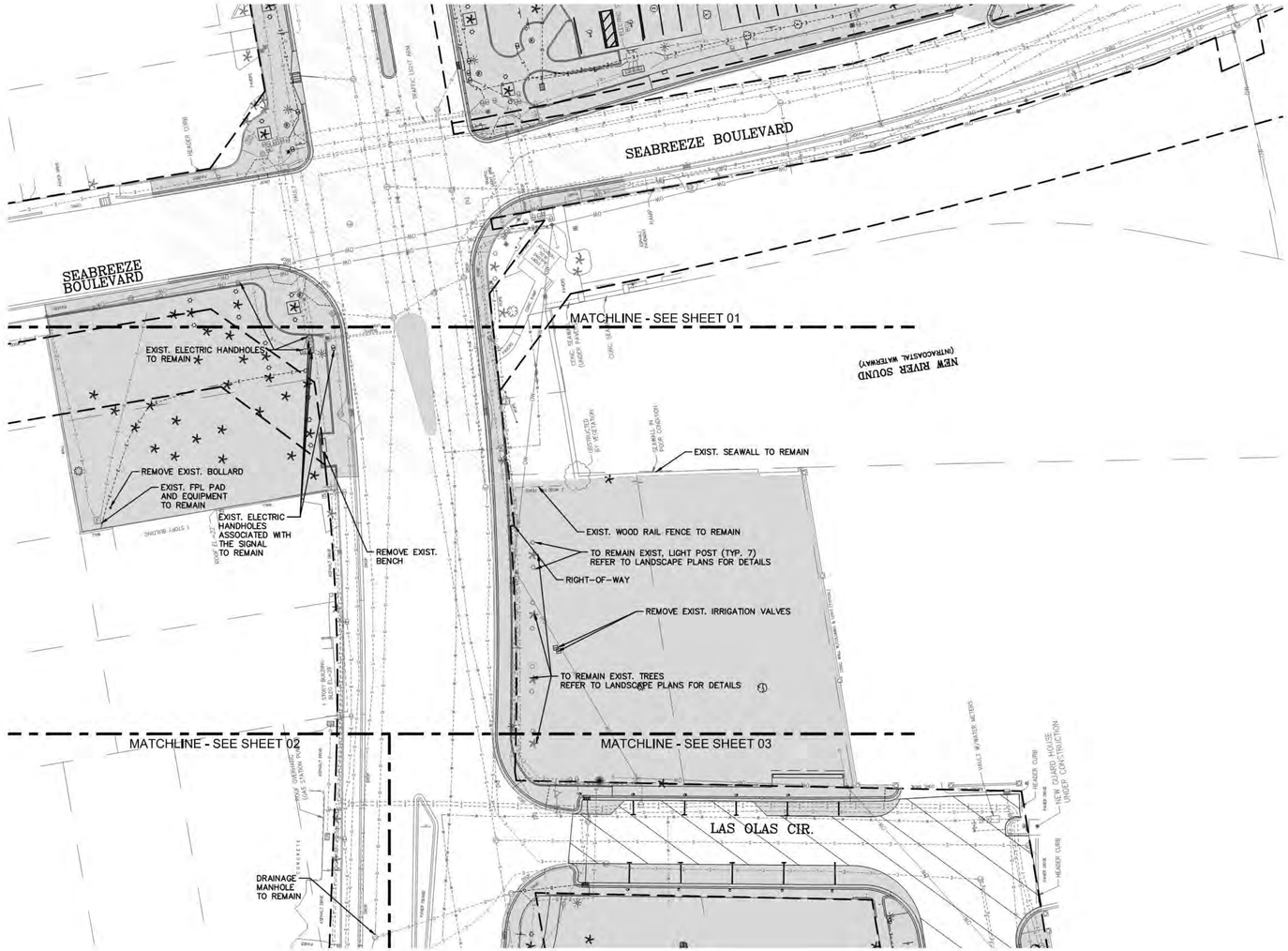
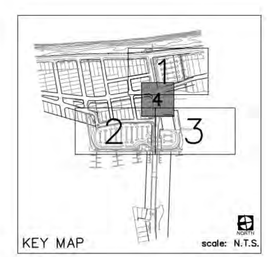


LEGEND:

- REMOVE ASPHALT
- REMOVE EXISTING CURB, ASPHALT, BASE MATERIAL, CONCRETE, PAVERS, BUILDINGS, SIGNS, LIGHT POLES, LANDSCAPE LIGHTING, AND TREES UNLESS SPECIFICALLY CALLED OUT TO REMAIN
- MILL AND RESURFACE
- EXISTING TRASH CAN TO BE REMOVED PER NOTE 8
- EXISTING WATER MAIN TO BE REMOVED
- EXISTING GRAVITY SEWER MAIN TO BE REMOVED
- EXISTING SEWER FORCE MAIN TO BE REMOVED
- EXISTING STORM PIPE TO BE REMOVED
- EXISTING ELECTRIC REFER TO ELECTRICAL PLANS
- EXISTING GAS TO BE REMOVED
- EXISTING TELEPHONE TO BE REMOVED
- EXISTING TREES TO BE REMOVED
- EXISTING WATER MAIN TO REMAIN
- EXISTING GRAVITY SEWER MAIN TO REMAIN
- EXISTING SEWER FORCE MAIN TO REMAIN
- EXISTING STORM PIPE TO REMAIN
- EXISTING ELECTRIC TO REMAIN
- EXISTING GAS TO REMAIN
- EXISTING TELEPHONE TO REMAIN
- EXISTING TREES TO REMAIN



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

DEMOLITION PLAN

SHEET NO. C2-1.04 X OF XX

DRAWING FILE 11900-MULTI-DEMO

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C2-1.04 DEMOLITION PLAN February 20, 2016 03:25:28pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C2-1.04 DEMOLITION PLAN.dwg

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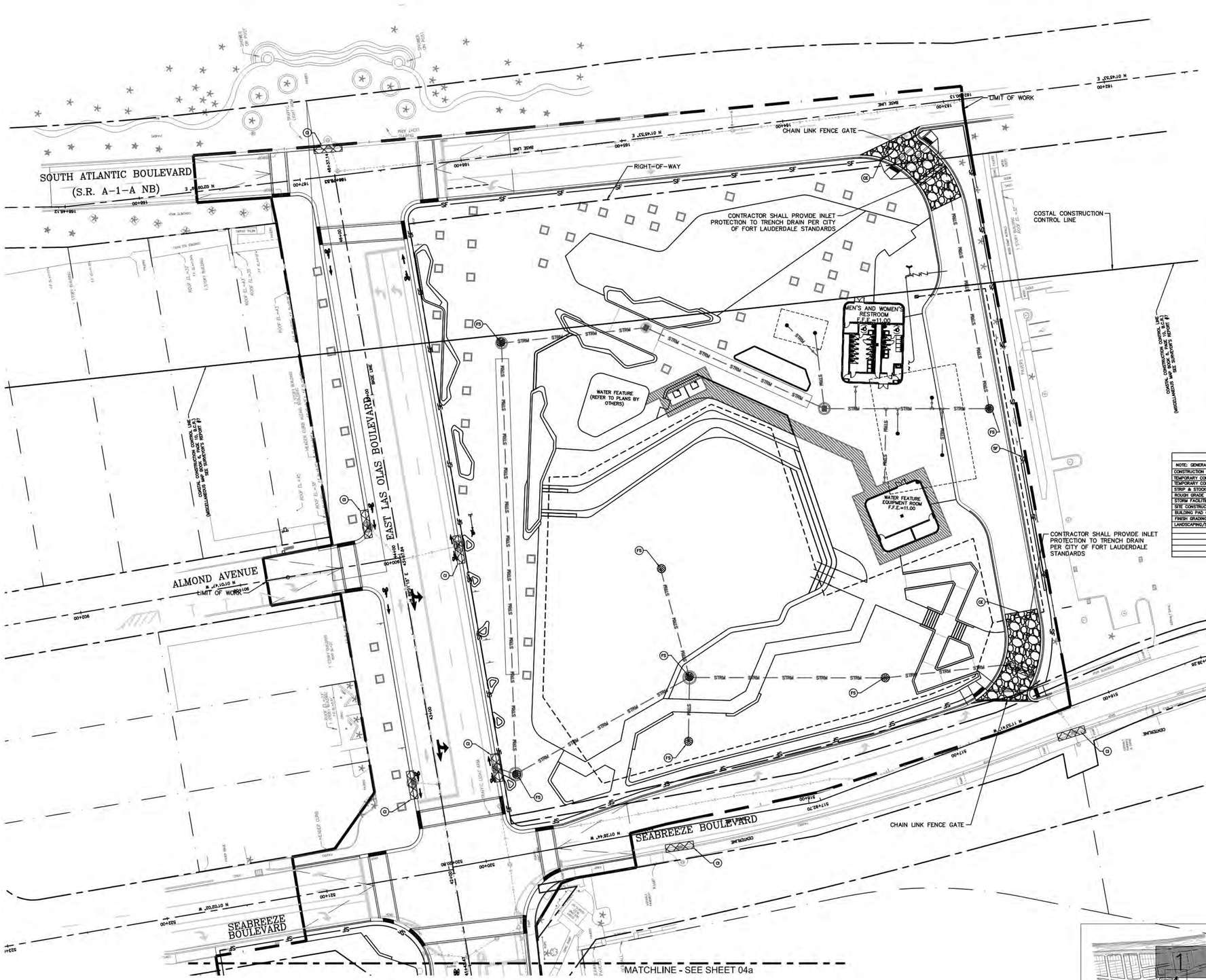


LEGEND:

- RIGHT-OF-WAY
- FS — FILTER SACK INLET PROTECTION
- CI — CURB INLET PROTECTION PER FDOT STANDARDS
- CE — CONSTRUCTION ENTRANCE
- TB — TURBIDITY BARRIER
- SF — SILT FENCE
- SD — SILT DIKE

NOTES:

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., CONTRACTOR SHALL IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

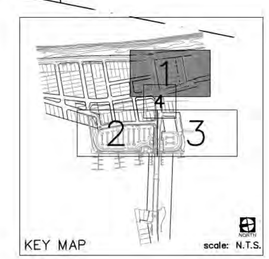
PHASE 1:
1. INSTALL TEMPORARY CHAIN LINK FENCE AS DETERMINED BY CONTRACTOR.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AND INSTALL SILT FENCE, TURBIDITY BARRIER, AND INLET PROTECTION.
3. PERFORM CLEARING AND GRUBBING AND DEMOLITION.

PHASE 2:
1. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
2. CONSTRUCT PROPOSED AND MODIFIED DRAINAGE INFRASTRUCTURE.
3. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.
4. CONSTRUCT PROPOSED IMPROVEMENTS, INCLUDING BUILDING PAD.
5. COMPLETE FINAL GRADING AND FINAL STABILIZATION.
6. REMOVE TEMPORARY EROSION CONTROL MEASURES.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION ENTRANCE																								
TEMPORARY CONTROL MEASURES																								
STRIP & STOCKPILE TOPSOIL																								
ROUGH GRADE																								
STORM FACILITIES																								
SITE CONSTRUCTION																								
BUILDING PAD CONSTRUCTION																								
FINISH GRADING																								
LANDSCAPING/SEED/FINAL STABILIZATION																								



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

EROSION CONTROL PLAN

SHEET NO. C3-1.01 X OF XX

DRAWING FILE 11900-MULTI-EROS

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C3-1.01 EROSION CONTROL PLAN February 20, 2016 03:26:34pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C3-1.04 EROSION CONTROL PLAN.dwg
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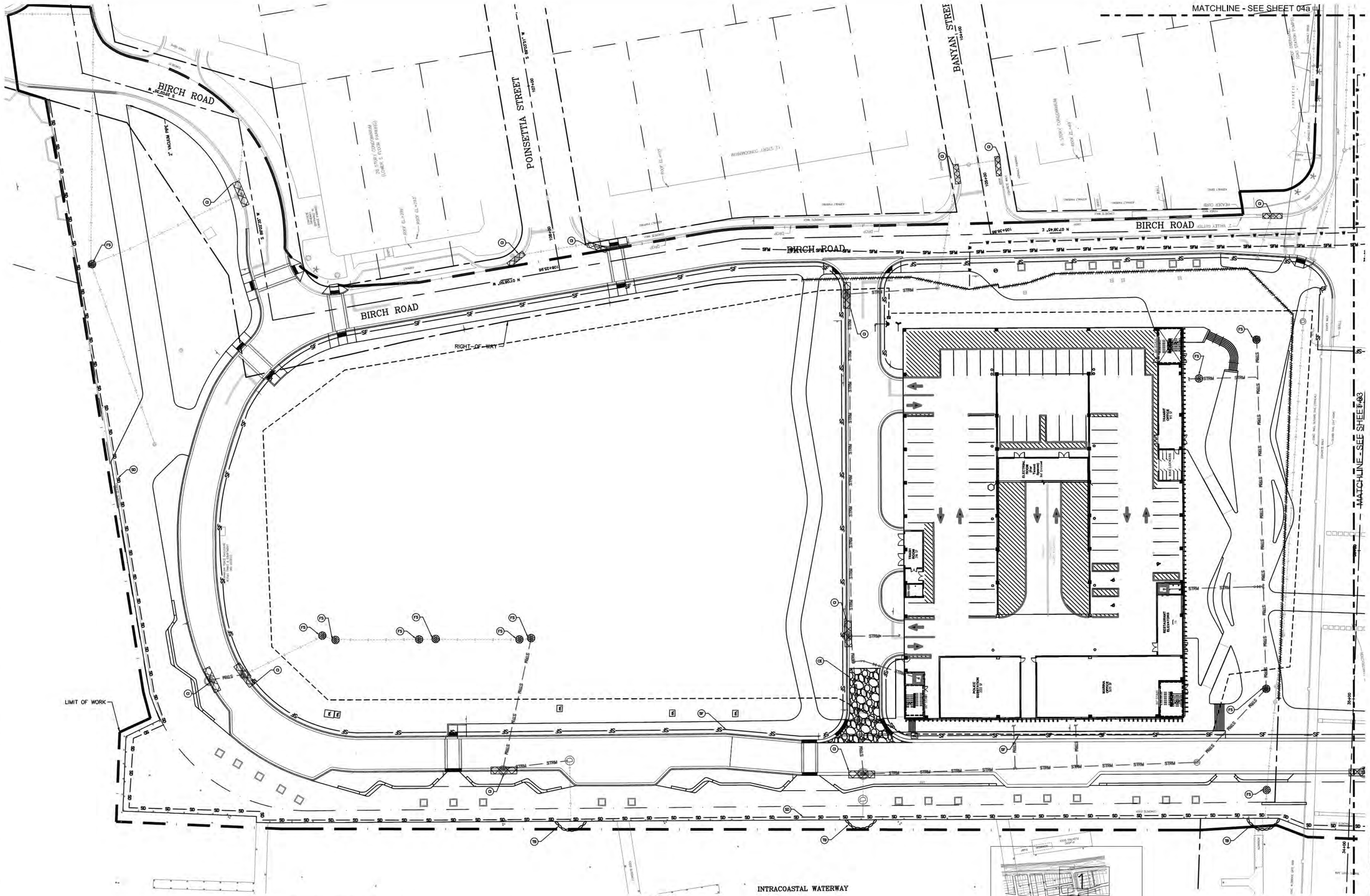

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE																															
NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE																															
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC							
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LEGEND:

	RIGHT-OF-WAY
FS	FILTER SACK INLET PROTECTION
CI	CURB INLET PROTECTION PER FDOT STANDARDS
CE	CONSTRUCTION ENTRANCE
TB	TURBIDITY BARRIER
SF	SILT FENCE
SD	SILT DIKE

60% CD SUBMITTAL

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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

EROSION CONTROL PLAN

SHEET NO. C3-1.02 X OF XX

DRAWING FILE 11900-MULTI-EROS

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C3-1.02 EROSION CONTROL PLAN February 20, 2016 03:26:38pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C3-1.04 EROSION CONTROL PLAN.dwg

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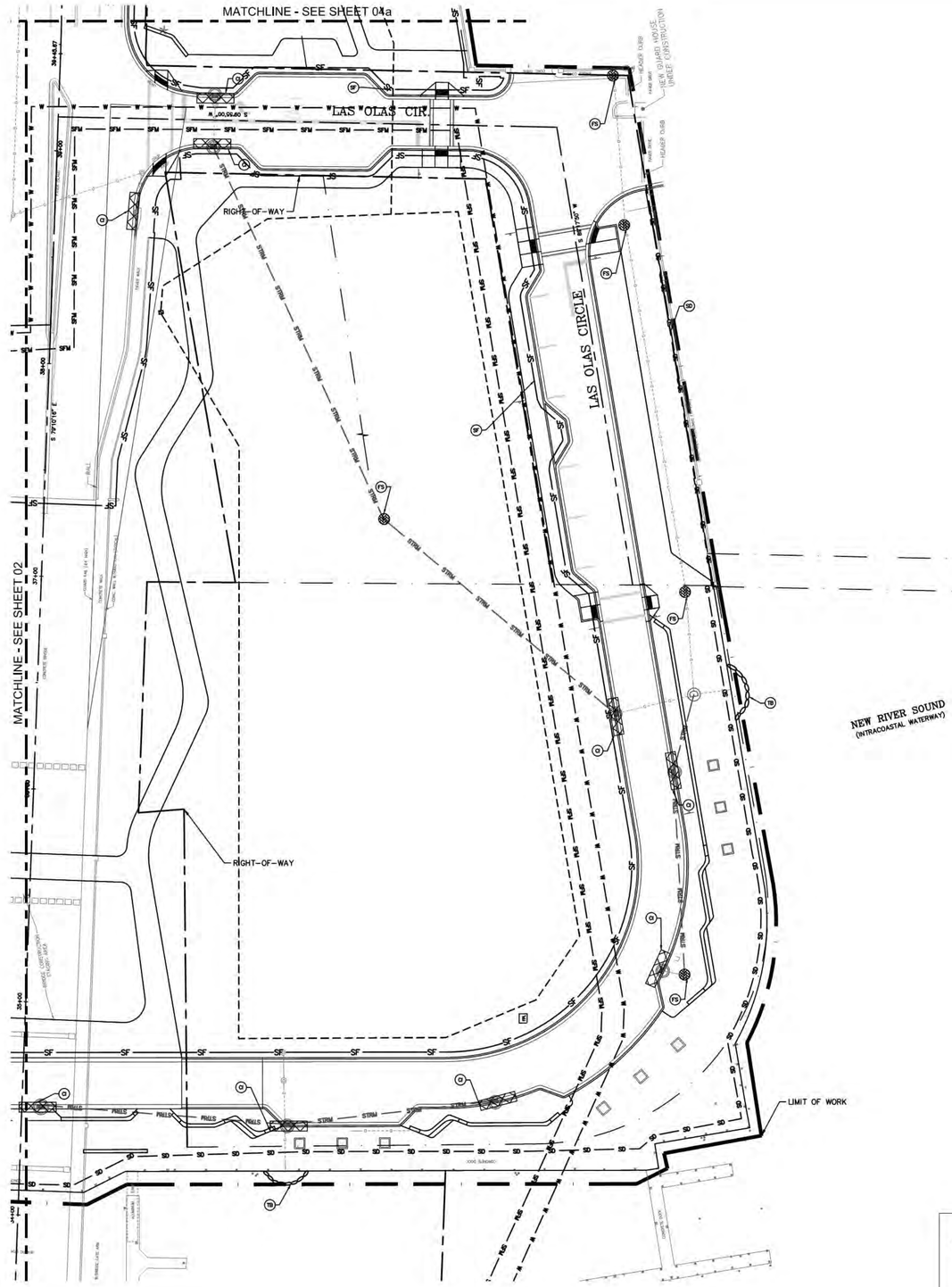

LEGEND:

- RIGHT-OF-WAY
- FILTER SACK INLET PROTECTION
- CURB INLET PROTECTION PER FDOT STANDARDS
- CONSTRUCTION ENTRANCE
- TURBIDITY BARRIER
- SILT FENCE
- SILT DIKE

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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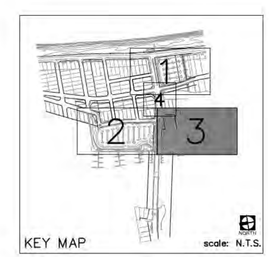

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

EROSION CONTROL PLAN

SHEET NO. C3-1.03 X OF XX

DRAWING FILE 11900-MULTI-EROS

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C3-1.03 EROSION CONTROL PLAN February 20, 2016 03:26:41pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C3-1.04 EROSION CONTROL PLAN.dwg

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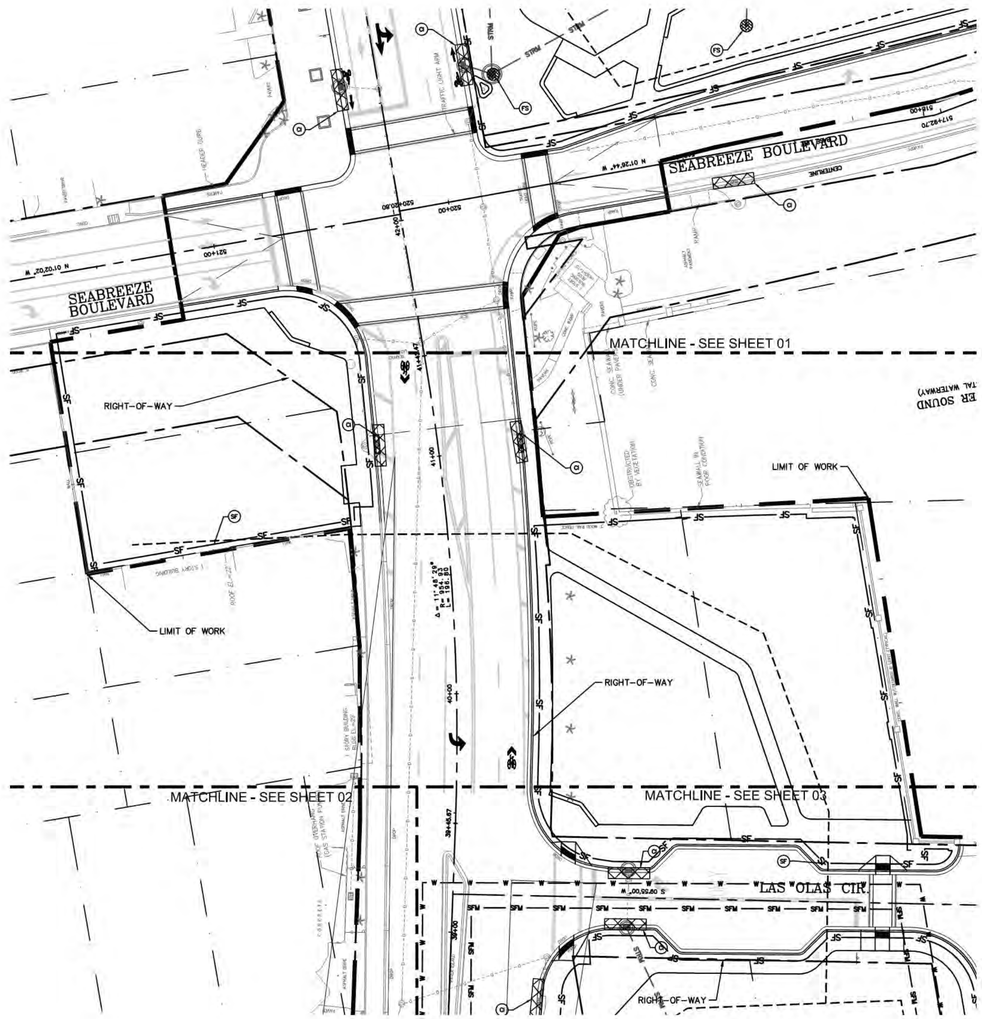

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE																								
NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE																								
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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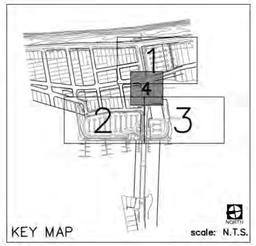
LEGEND:

	RIGHT-OF-WAY
FS	FILTER SACK INLET PROTECTION
CI	CURB INLET PROTECTION PER FDOT STANDARDS
CE	CONSTRUCTION ENTRANCE
TB	TURBIDITY BARRIER
SF	SILT FENCE
SD	SILT DIKE



NORTH

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0 30' 60' 90'

60% CD SUBMITTAL

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PROJECT # P11900
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FORT LAUDERDALE, FL

EROSION CONTROL PLAN

SHEET NO. C3-1.04 X OF XX

DRAWING FILE 11900-MULTI-EROS

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C3-1.04 EROSION CONTROL PLAN February 20, 2016 03:26:43pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C3-1.04 EROSION CONTROL PLAN.dwg

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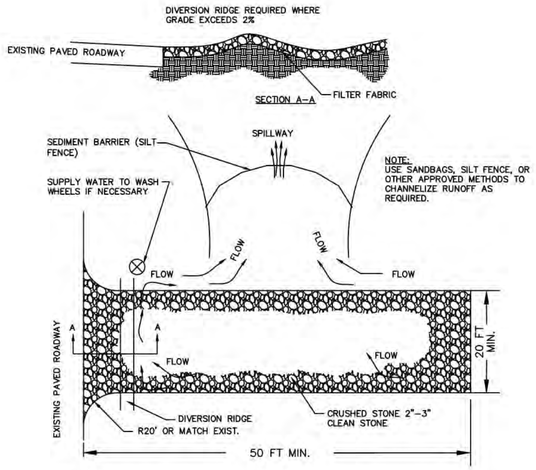
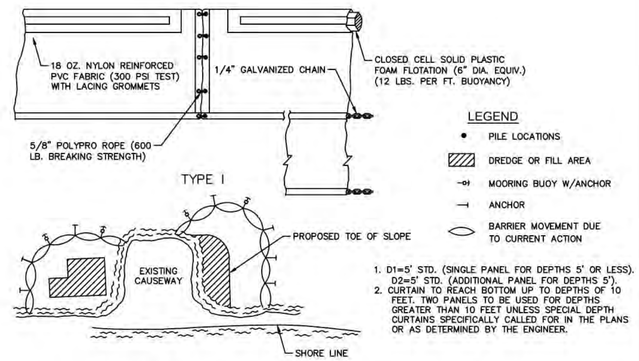


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

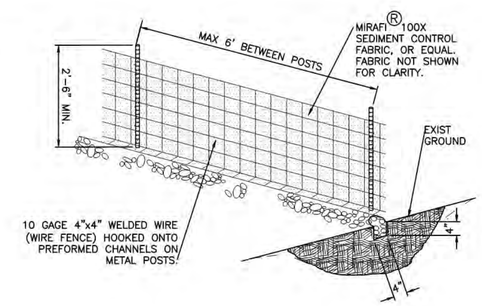
KHA



1. D1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D2=5' STD. (ADDITIONAL PANEL FOR DEPTHS 5').
2. CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER
NOT TO SCALE

KHA

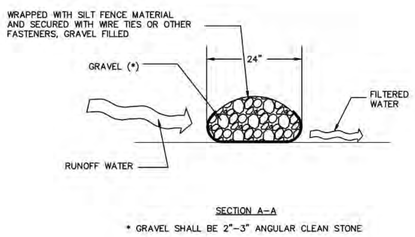


NOTES:

1. DRIVE WOOD POSTS (1.3 LBS/FT MIN) 18" MIN INTO GROUND AND EXCAVATE A 4"X4" TRENCH UPHILL 5' LONG (MIN) ALONG LINE OF POSTS. WOOD.
2. POSTS 4" IN DIAMETER OR 2"X4" MAY BE USED. ATTACH WIRE FENCE TO POSTS AND EXTEND THE BOTTOM OF THE FENCE 8" INTO THE EXCAVATED TRENCH. ALTERNATE : USE SEDIMENT CONTROL FABRIC WITH PRE–SEWN POCKETS FOR POSTS SO THAT WIRE FENCE IS NOT REQ'D.
3. ATTACH THE SEDIMENT CONTROL FABRIC (36" WIDE) TO THE WIRE FENCE W/METAL CLIPS OR WIRE AND EXTEND THE BOTTOM OF THE FABRIC 6" INTO THE TRENCH.
4. BOTTOM OF SEDIMENT CONTROL FABRIC MUST BE PLACED IN TRENCH AND SECURED WITH GRANULAR FILL TO A HEIGHT OF 6" ABOVE GROUND LEVEL, SO THAT RUNOFF IS FORCED TO GO THROUGH THE FENCE AND CANNOT GO UNDER IT.
5. SILT FENCE SHALL BE MAINTAINED AND TRAPPED SEDIMENTS SHALL BE REMOVED BY THE CONTRACTOR PERIODICALLY AS DETERMINED BY THE ENGINEER OR AS NECESSARY (MAX. 6 MONTHS).
6. THE CONTRACTOR IS REQUIRED TO REMOVE ALL SILT FENCES AND AREA TO BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION.

SILT FENCE - 105
NOT TO SCALE

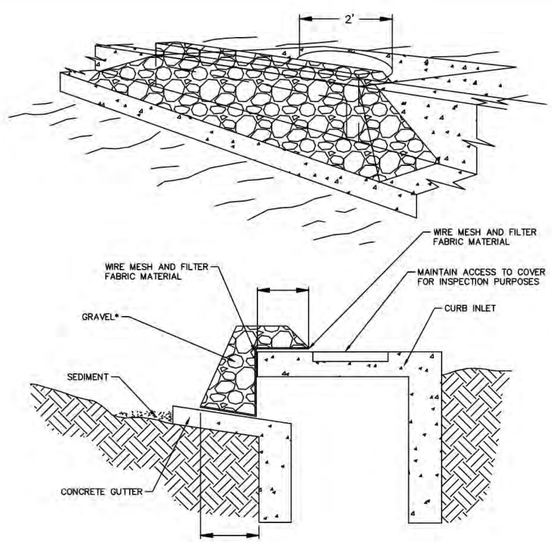
FTL



* GRAVEL SHALL BE 2"–3" ANGULAR CLEAN STONE

SILT DIKE (WRAPPED IN FABRIC)
NOT TO SCALE

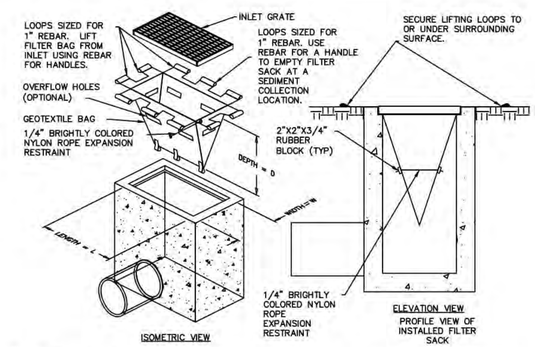
KHA



THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

CURB INLET PROTECTION PER FDOT INDEX
NOT TO SCALE

KHA

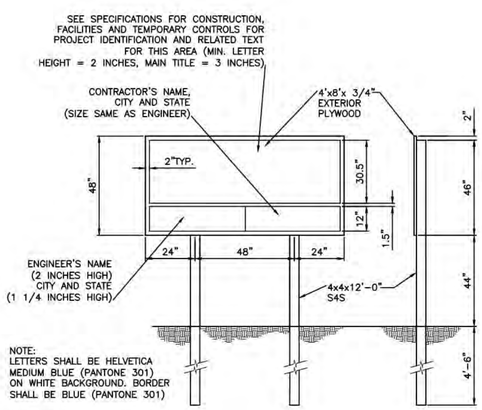


1. EMPTY FILTER SACK WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. AN OIL ADSORBENT PAD OR PILLOW CAN BE PURCHASED WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK WILL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK WILL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK WILL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D–4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D–4632	20 %
PUNCTURE	ASTM D–4833	120 LBS
MULLEN BURST	ASTM D–3786	800 PSI
TRAPEZOID TEAR	ASTM D–4533	120 LBS
UV RESISTANCE	ASTM D–4355	80 %
APPARENT OPENING SIZE	ASTM D–4751	40 US SIEVE
FLOW RATE	ASTM D–4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D–4491	0.55 SEC –1
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D–4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D–4632	20 %
PUNCTURE	ASTM D–4833	135 LBS
MULLEN BURST	ASTM D–3786	420 PSI
TRAPEZOID TEAR	ASTM D–4533	45 LBS
UV RESISTANCE	ASTM D–4355	90 %
APPARENT OPENING SIZE	ASTM D–4751	20 US SIEVE
FLOW RATE	ASTM D–4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D–4491	1.5 SEC –1

FILTER SACK INLET PROTECTION
NOT TO SCALE

KHA



NOTE:
LETTERS SHALL BE HELVETICA MEDIUM BLUE (PANTONE 301) ON WHITE BACKGROUND. BORDER SHALL BE BLUE (PANTONE 301)

PROJECT SIGN
NOT TO SCALE

FTL

FTL — CITY OF FORT LAUDERDALE STANDARD DETAIL

KHA — KIMLEY–HORN AND ASSOCIATES DETAIL

NOTE: DETAILS ARE INCLUDED FROM THE ENTITIES LISTED ABOVE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL OBTAIN AND CONFORM WITH THE LATEST STANDARDS AND DETAILS.

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KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

EROSION CONTROL DETAILS

SHEET NO. C3-4.01 X OF XX

DRAWING FILE 11900-C304-EDET

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C3-4.01 EROSION CONTROL DETAILS February 20, 2016 03:27:01pm K:\BCD_Roadway\040814003 – FTL Las Olas\CADD\PlanSheets\C3-4.01 EROSION CONTROL DETAILS.dwg
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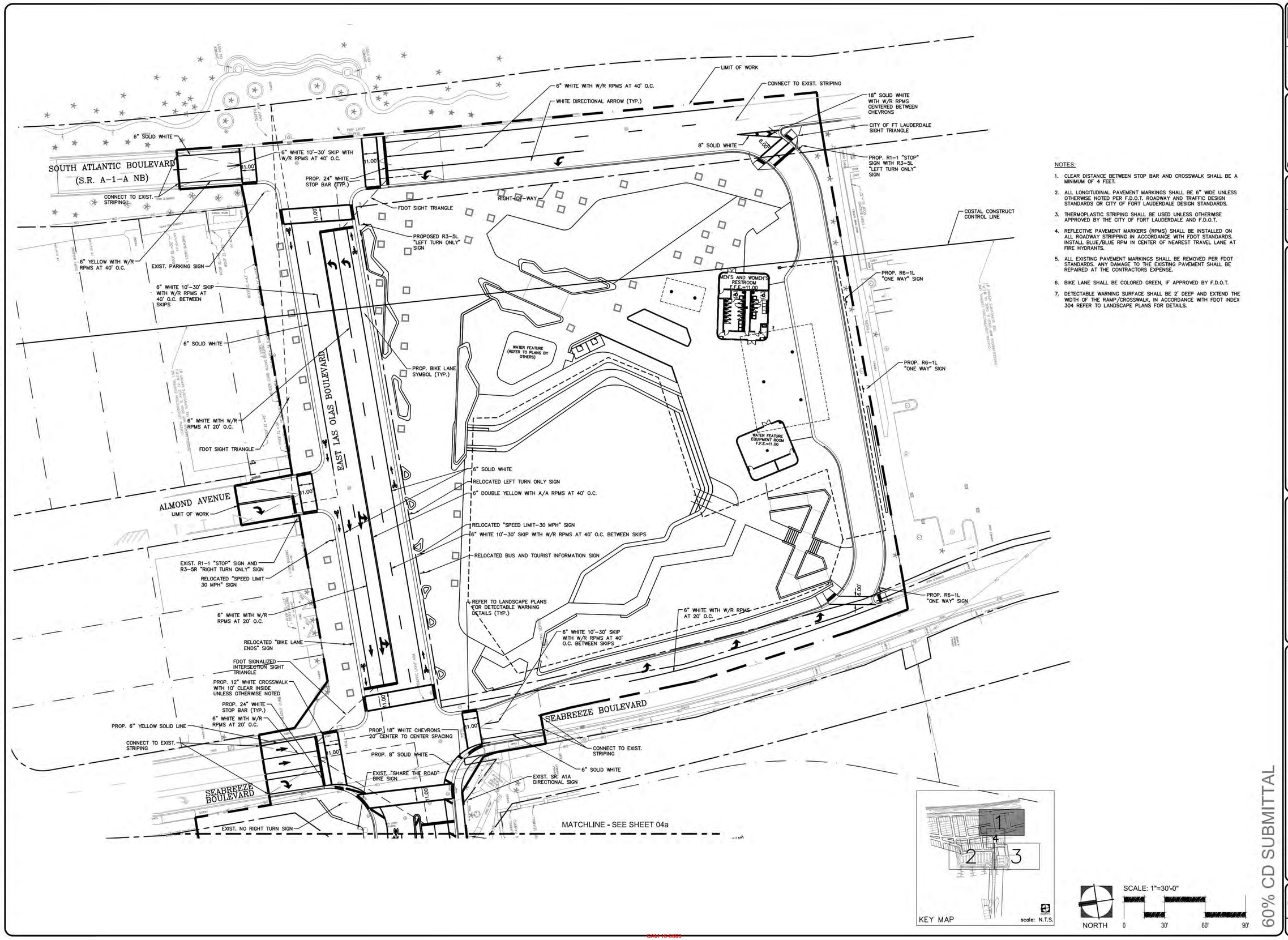

NOTES:

1. CLEAR DISTANCE BETWEEN STOP BAR AND CROSSWALK SHALL BE A MINIMUM OF 4 FEET.
2. ALL LONGITUDINAL PAVEMENT MARKINGS SHALL BE 6" WIDE UNLESS OTHERWISE NOTED PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS OR CITY OF FORT LAUDERDALE DESIGN STANDARDS.
3. THERMOPLASTIC STRIPING SHALL BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF FORT LAUDERDALE AND F.D.O.T.
4. REFLECTIVE PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON ALL ROADWAY STRIPPING IN ACCORDANCE WITH FDOT STANDARDS. INSTALL BLUE/BLUE RPM IN CENTER OF NEAREST TRAVEL LANE AT FIRE HYDRANTS.
5. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PER FDOT STANDARDS. ANY DAMAGE TO THE EXISTING PAVEMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
6. BIKE LANE SHALL BE COLORED GREEN, IF APPROVED BY F.D.O.T.
7. DETECTABLE WARNING SURFACE SHALL BE 2' DEEP AND EXTEND THE WIDTH OF THE RAMP/CROSSWALK, IN ACCORDANCE WITH FDOT INDEX 304 REFER TO LANDSCAPE PLANS FOR DETAILS.

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
SIGNING AND PAVEMENT MARKING PLANS

60% CD SUBMITTAL

SHEET NO. C4-1.01 | X OF XX

DRAWING FILE

Plotted By:Webber, Jason Sheet Set:LAS OLAS CORRIDOR IMPROVEMENTS Layout:C4-1.01 SIGNING AND PAVEMENT MARKING PLANS February 20, 2016 03:28:34pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C4-1.04 SIGNING AND PAVEMENT MARKING PLANS.dwg
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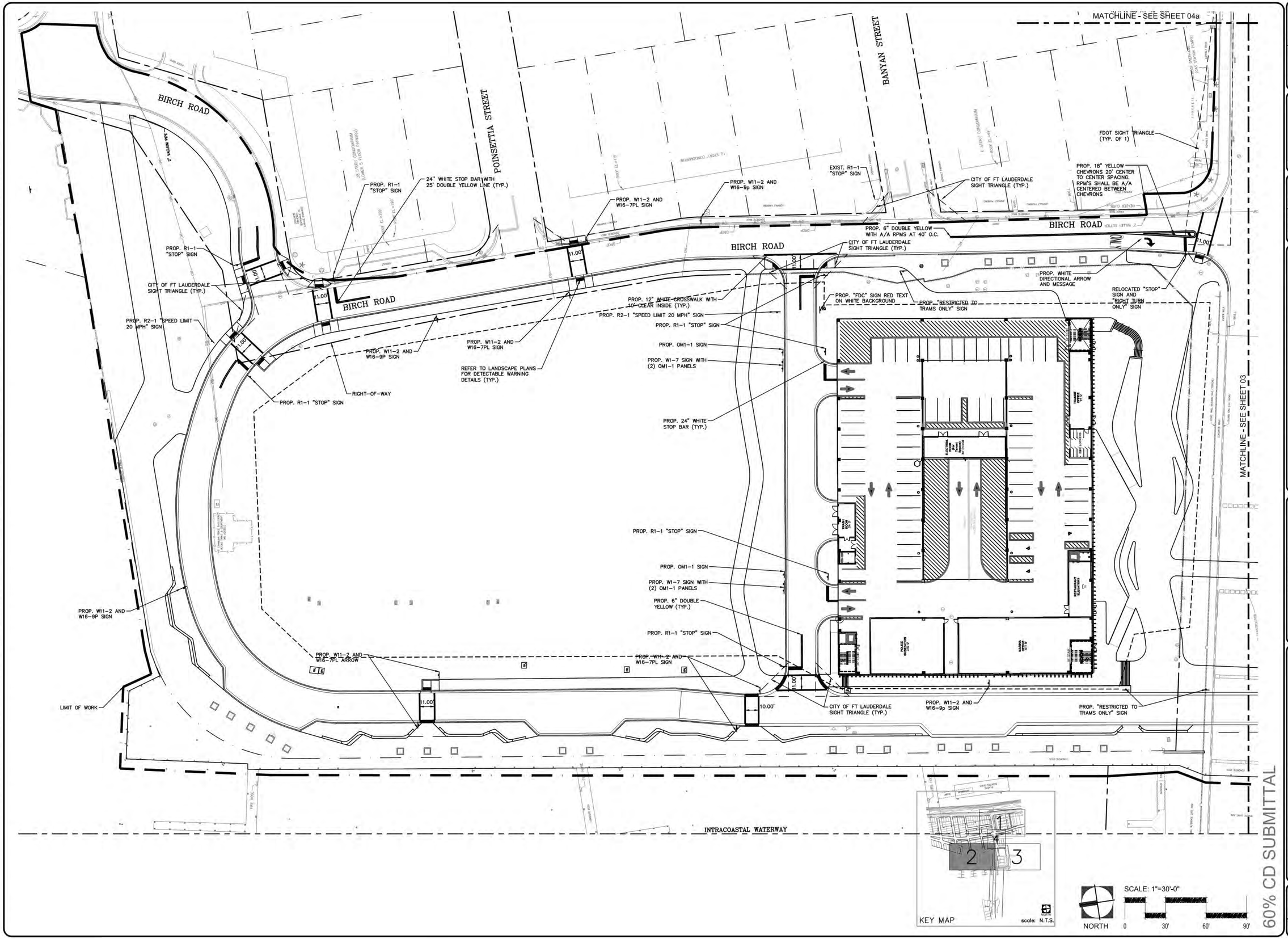

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NO.	DATE	BY	CHK'D	DESCRIPTION
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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. C4-1.02 X OF XX

DRAWING FILE

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C4-1.02 SIGNING AND PAVEMENT MARKING PLANS February 20, 2016 03:28:37pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C4-1.04 SIGNING AND PAVEMENT MARKING PLANS.dwg

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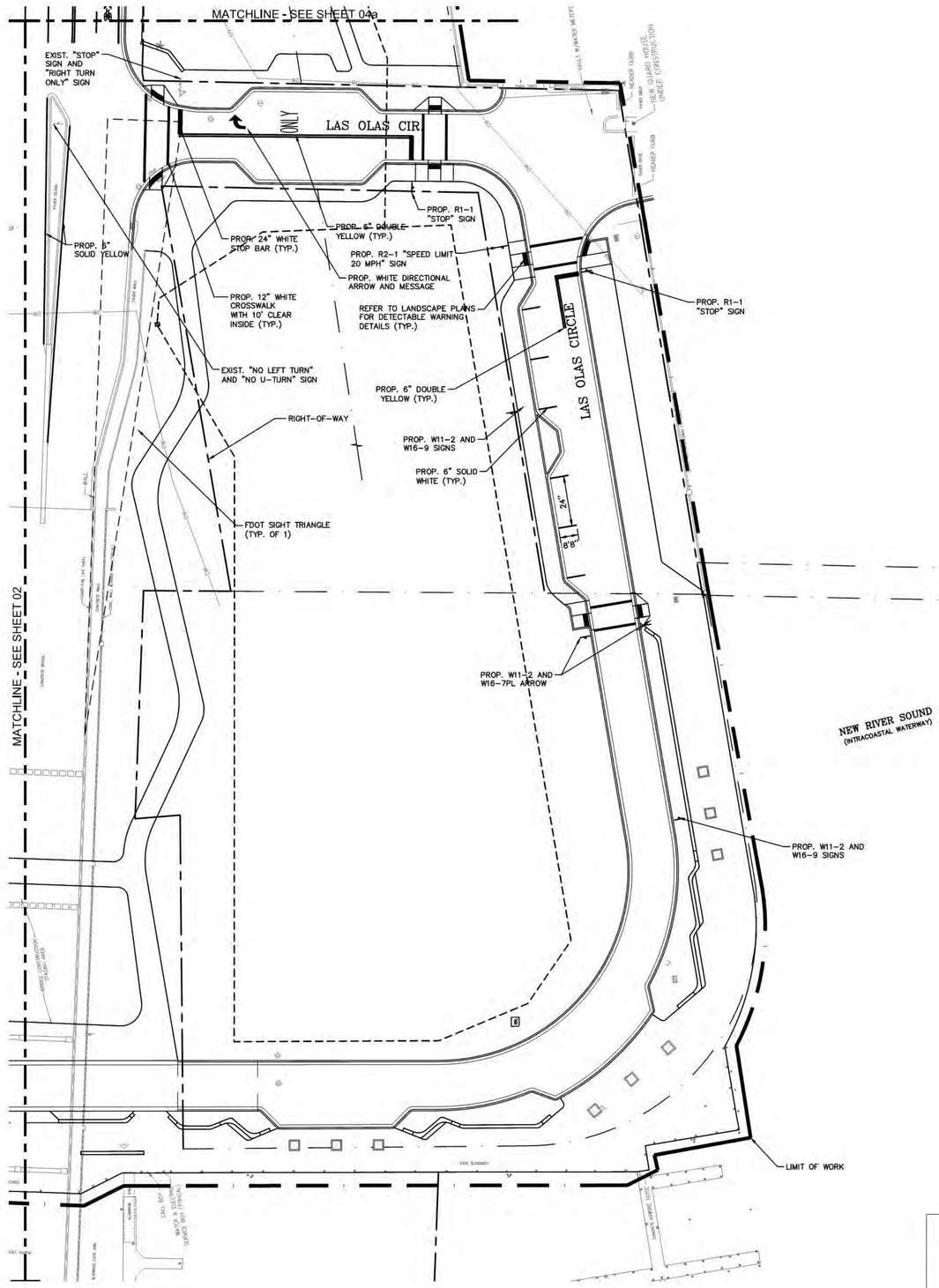

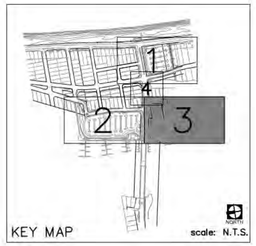

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. C4-1.03 X OF XX

DRAWING FILE

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C4-1.03 SIGNING AND PAVEMENT MARKING PLANS February 20, 2016 03:28:39pm K:\BCD_Roadway\040814003 – FTL Las Olas\CADD\PlanSheets\C4-1.04 SIGNING AND PAVEMENT MARKING PLANS.dwg

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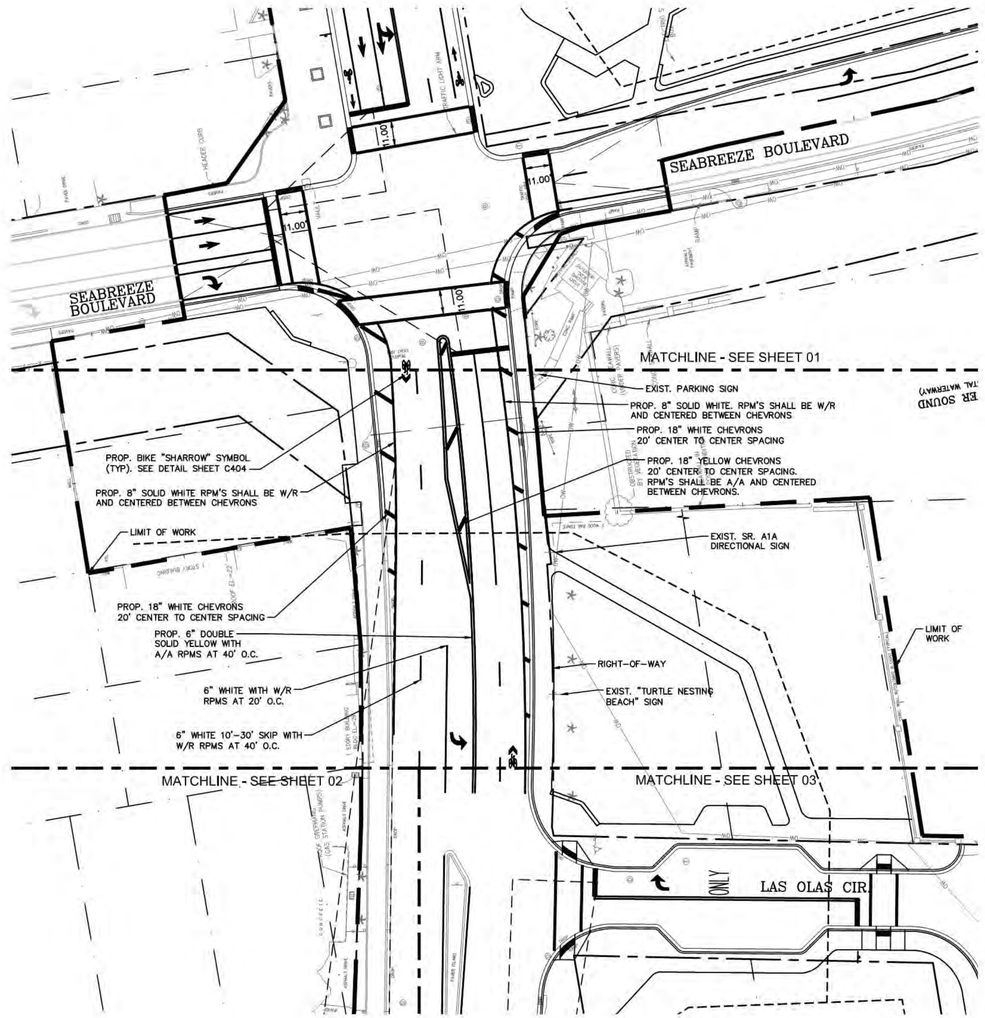

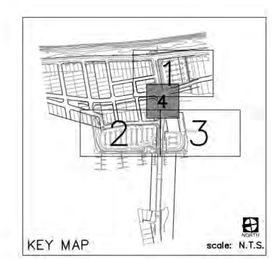

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

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1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SIGNING AND PAVEMENT MARKING PLANS

SHEET NO. C4-1.04 X OF XX

DRAWING FILE

Plotted By:Webber, Jason Sheet Set:LAS OLAS CORRIDOR IMPROVEMENTS Layout:C4-1.04 SIGNING AND PAVEMENT MARKING PLANS February 20, 2016 03:28:41pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C4-1.04 SIGNING AND PAVEMENT MARKING PLANS.dwg

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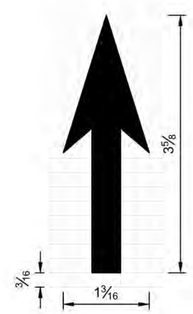
6.3 S.F.

HELMETED BICYCLIST SYMBOL

4.2 S.F.



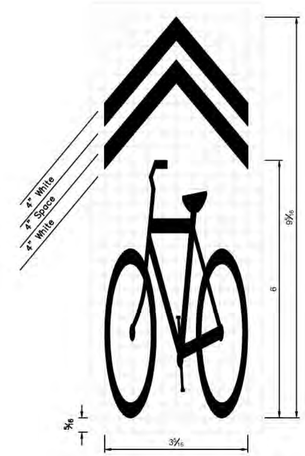
BIKE LANE ARROW

NOTES:

1. ALL BICYCLE MARKINGS AND PAVEMENT MESSAGES SHALL BE WHITE.
2. ALL BICYCLE MARKINGS SHALL BE PREFORMED THERMOPLASTIC.
3. RECOMMENDED PLACEMENT OF BICYCLE LANE MARKINGS:
   - 3.a. AT THE BEGINNING OF A BICYCLE LANE, ON THE FAR SIDE OF MAJOR INTERSECTIONS, AND PRIOR TO AND WITHIN THE BICYCLE LANE KEYHOLE.
   - 3.b. ALONG THE ROADWAY AS NEEDED TO PROVIDE A MAXIMUM SPACING OF 1,320 FEET FOR POSTED SPEEDS LESS THAN OR EQUAL TO 45 MPH, 2,640 FEET FOR A POSTED SPEED OF 50 MPH OR GREATER.
4. RECOMMENDED SPACING FOR SHARED LANE MARKING (SLM): IMMEDIATELY AFTER INTERSECTIONS AND AT A MAXIMUM SPACING OF 500 FEET.

FDOT

8.1 S.F.



BIKE "SHARROW" SYMBOL
NOT TO SCALE

FDOT

"STOP" SIGN R1-1
NOT TO SCALE

FDOT

"LEFT TURN ONLY" SIGN R3-5L
NOT TO SCALE

FDOT

"ONE WAY" SIGN R6-1L
NOT TO SCALE

FDOT

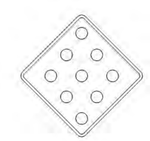
NOTES:
1. BOTH SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST MUTCD EDITION, WARNING SIGNS W11-2 (TOP) AND W16-7PL (BOTTOM) WITH A BLACK LEGEND ON A FLUORESCENT YELLOW-GREEN BACKGROUND.

"PEDESTRIAN CROSSING" SIGN W11-2 & W16-7PL
NOT TO SCALE

FDOT

WARNING SIGN – PANEL W16-9P
NOT TO SCALE

FDOT



ONLY-1 SIGN PANEL
NOT TO SCALE

FDOT

WARNING SIGN – PANEL W1-7
NOT TO SCALE

FDOT

FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD DETAIL
FTL	CITY OF FORT LAUDERDALE STANDARD DETAIL
KHA	KIMLEY-HORN AND ASSOCIATES DETAIL

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

CONSTRUCTION DETAILS

SHEET NO. C4-4.01 X OF XX

DRAWING FILE 11900-C404-CDET

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C4-4.01 CONSTRUCTION DETAILS February 20, 2016 03:29:00pm K:\BCD_Roadway\040814003 – FTL Las Olas\CADD\PlanSheets\C4-4.01 CONSTRUCTION DETAILS.dwg
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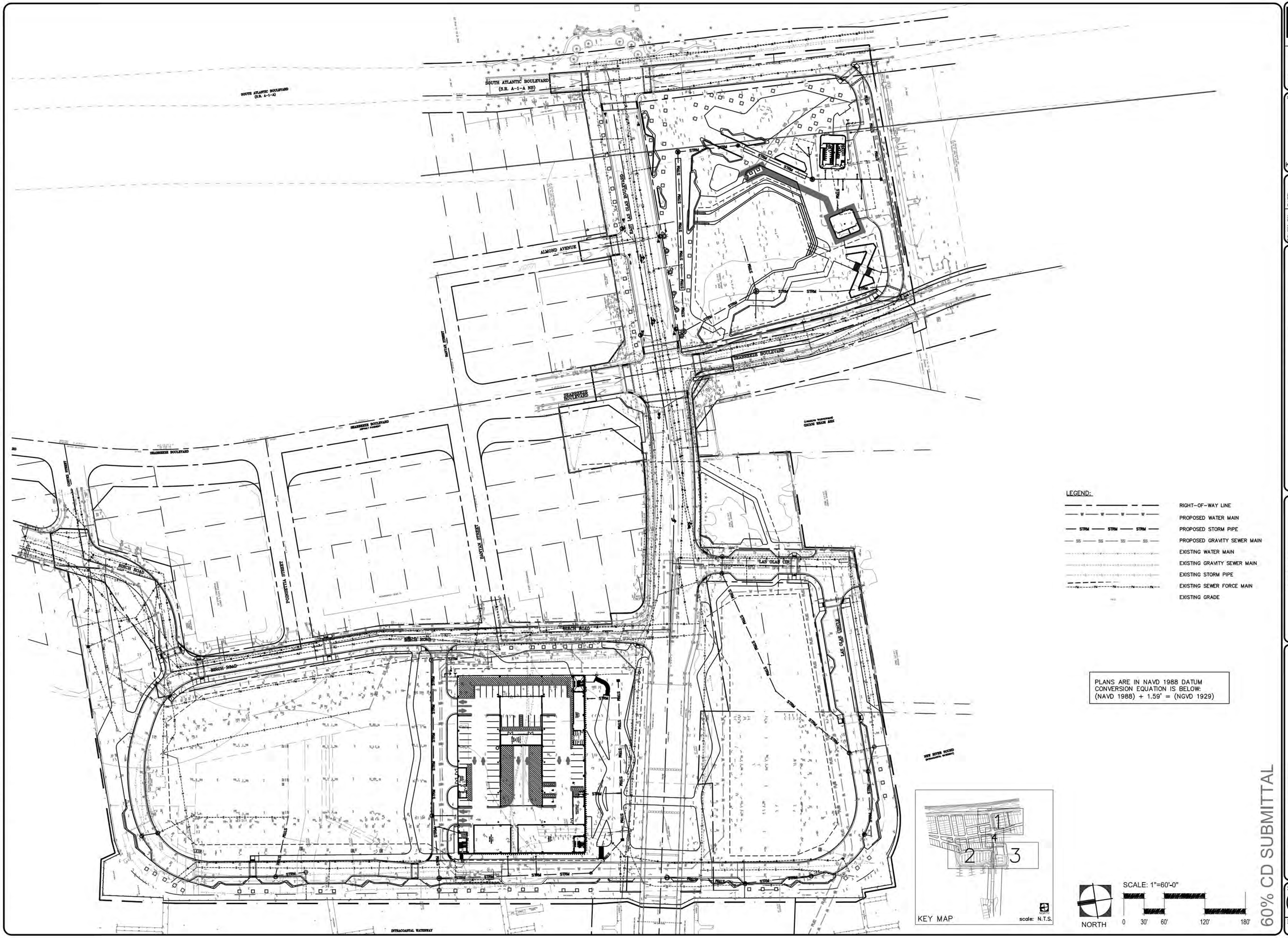

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

OVERALL PAVING, GRADING, AND DRAINAGE PLAN

SHEET NO.
C5-1.00
X OF XX

DRAWING FILE
11900-MULTI-PGDR

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C500 OVERALL PAVING GRADING AND DRAINAGE PLAN February 20, 2016 03:30:17pm K:\BCO_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-PGDR.dwg

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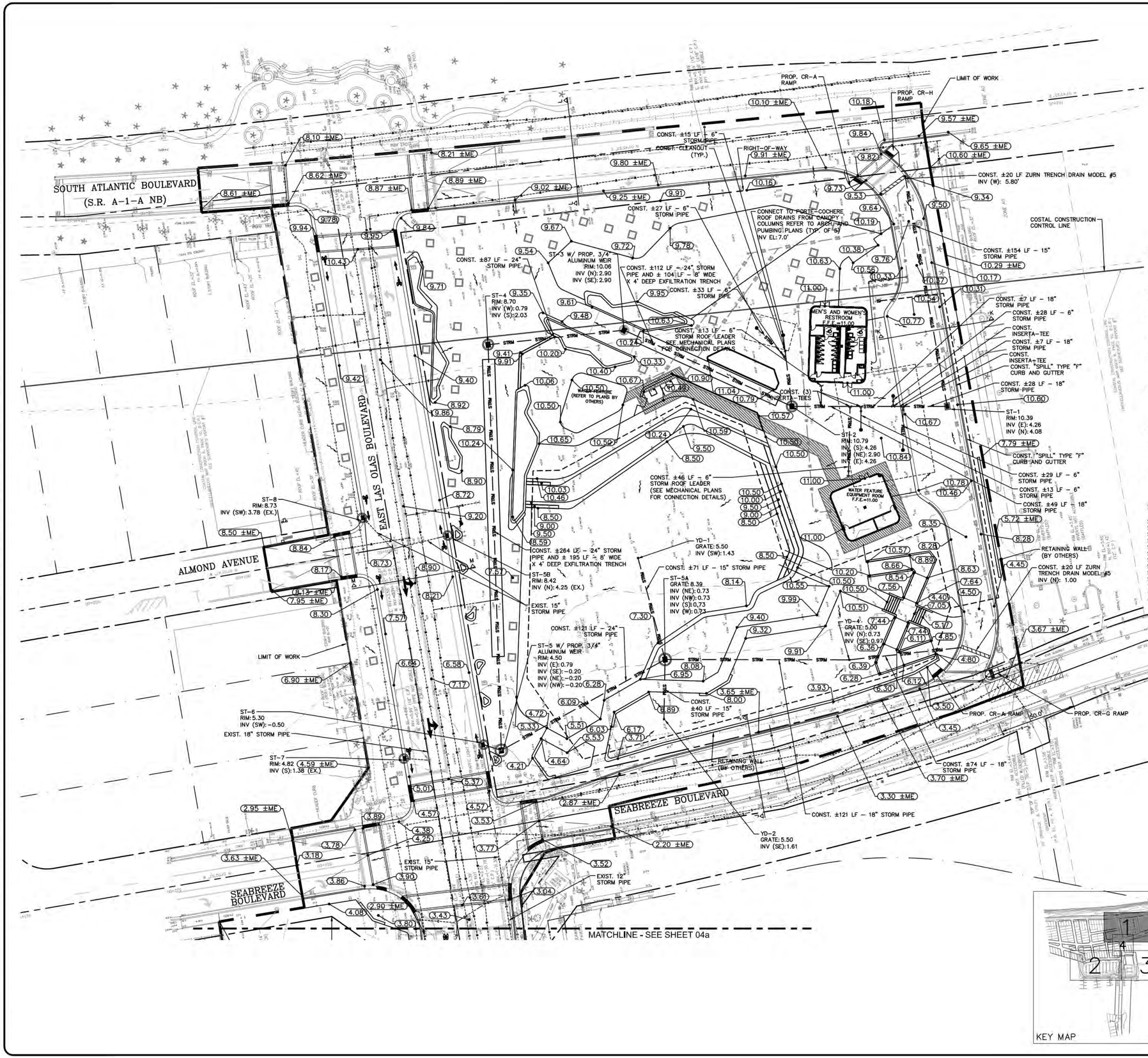

LEGEND:

- RIGHT-OF-WAY LINE
- PROPOSED WATER MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- FLOW ARROW
- PROPOSED GRADE
- MATCH EXISTING GRADE
- EXISTING GRADE
- MECHANICAL PIPING (REFER TO SHEET X101)
- LIMITS OF MILLING AND RESURFACING FOR CONNECTION OF SANITARY SEWER. SEE DETAIL ON SHEET C5-4.01.

PAVING, GRADING, AND DRAINAGE NOTES:

1. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING U.S. PRECAST (USP), U.S. FOUNDRY (USF), OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) PRODUCTS AS SPECIFIED, OR APPROVED EQUAL.
2. ALL STORM STRUCTURES SHALL HAVE A MINIMUM 12" SUMP.
3. ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) WITHIN FDOT ROAD.
4. ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLY-ETHYLENE (HDPE) PIPE.
5. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURES UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL PROVIDE ALL FITTINGS, COUPLINGS, OR ADAPTERS NECESSARY TO CONNECT TO THE BUILDING PLUMBING AND TO CONNECT ROOF LEADERS TO THE MAIN STORM LINES. ALL ROOF LEADERS SHALL BE AT 1% MIN. SLOPE UNLESS OTHERWISE NOTED. COORDINATE BUILDING ENTRIES WITH PLUMBING PLANS.
7. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
8. CONTRACTOR SHALL CLEAN ALL PROPOSED AND EXISTING IMPACTED DOWNSTREAM/DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
9. REFER TO LANDSCAPE PLANS FOR ALL HARDSCAPE AND PAVING MATERIALS AND PATTERNS.
10. ALL VALLEY INLET RIM ELEVATIONS REFER TO CENTER OF GRATE.
11. ALL TYPE "D" CURB, TYPE "F" CURB AND GUTTER AND DROP CURB SHALL CONFORM WITH FDOT INDEX 300.

STRUCTURE LIST:

ST-1	CONST. USP 3-4.0 WITH USF FRAME AND GRATE 4155-6210
ST-2	CONST. USP 3-9.7 WITH USF FRAME AND GRATE 4123-6179
ST-3	CONST. USP 3-9.5 WITH USF FRAME AND GRATE 4123-6179
ST-4	CONST. USP 3-9.7 WITH USF FRAME AND GRATE 4123-6179
ST-5	CONST. USP 3-9.8 WITH USF FRAME AND GRATE 4123-6179
ST-5A	CONST. USP 3-9.8 WITH USF FRAME AND GRATE 4155-6210
ST-5B	CONST. USP 3-9.4 WITH USF 5112 DROP CURB INLET FRAME AND 6143 GRATE
ST-6	CONST. USP 3-9.4 WITH USF 5112 DROP CURB INLET FRAME AND 6143 GRATE
ST-7	CONST. USP 3-9.4 WITH USF 5112 DROP CURB INLET FRAME AND 6143 GRATE
ST-8	CONST. USP 3-9.4 WITH USF 5112 DROP CURB INLET FRAME AND 6143 GRATE
YD-1	CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#1299C6S)
YD-2	CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 18" STANDARD H-20 (#1299C6S)
YD-4	CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 12" STANDARD H-20 (#1299C6S)

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.59' = (NGVD 1929)

KEY MAP scale: N.T.S.

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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SEAL:

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73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PAVING, GRADING, AND DRAINAGE PLAN

SHEET NO. C5-1.01 X OF XX

DRAWING FILE 11900-MULTI-PGDR

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C501 PAVING GRADING AND DRAINAGE PLAN February 20, 2016 03:30:24pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-PGDR.dwg
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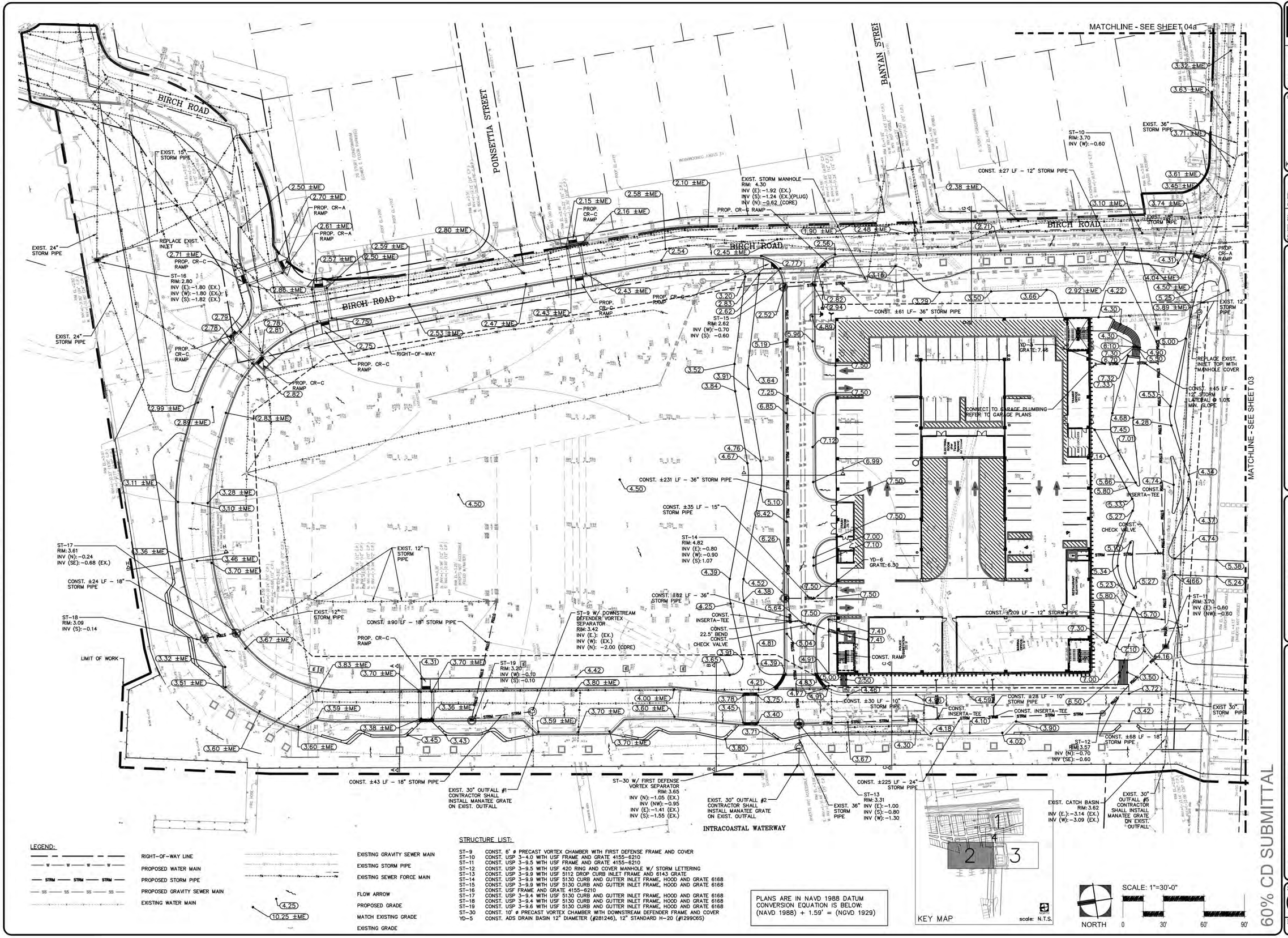

LEGEND:

- RIGHT-OF-WAY LINE
- PROPOSED WATER MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- FLOW ARROW
- (4.25) PROPOSED GRADE
- (10.25 ±ME) MATCH EXISTING GRADE
- EXISTING GRADE

STRUCTURE LIST:

ST-9	CONST. 6' ø PRECAST VORTEX CHAMBER WITH FIRST DEFENSE FRAME AND COVER
ST-10	CONST. USP 3-4.0 WITH USF FRAME AND GRATE 4155-6210
ST-11	CONST. USP 3-9.5 WITH USF FRAME AND GRATE 4155-6210
ST-12	CONST. USP 3-9.5 WITH USF 420 RING AND COVER MANHOLE W/ STORM LETTERING
ST-13	CONST. USP 3-9.9 WITH USF 5112 DROP CURB INLET FRAME AND 6143 GRATE
ST-14	CONST. USP 3-9.9 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-15	CONST. USP 3-9.9 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-16	CONST. USF FRAME AND GRATE 4155-6210
ST-17	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-18	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-19	CONST. USP 3-9.6 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-30	CONST. 10' ø PRECAST VORTEX CHAMBER WITH DOWNSTREAM DEFENDER FRAME AND COVER
YD-5	CONST. ADS DRAIN BASIN 12" DIAMETER (#281246), 12" STANDARD H-20 (#1299C6S)

PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.59' = (NGVD 1929)

60% CD SUBMITTAL

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73962

KHA PROJ #: 040814003

DRAWN BY:	DATE: 03/15/2016
JJ	
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PAVING, GRADING, AND DRAINAGE PLAN

SHEET NO. C5-1.02 X OF XX

DRAWING FILE 11900-MULTI-PGDR

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C502 PAVING GRADING AND DRAINAGE PLAN February 20, 2016 03:30:33pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-PGDR.dwg

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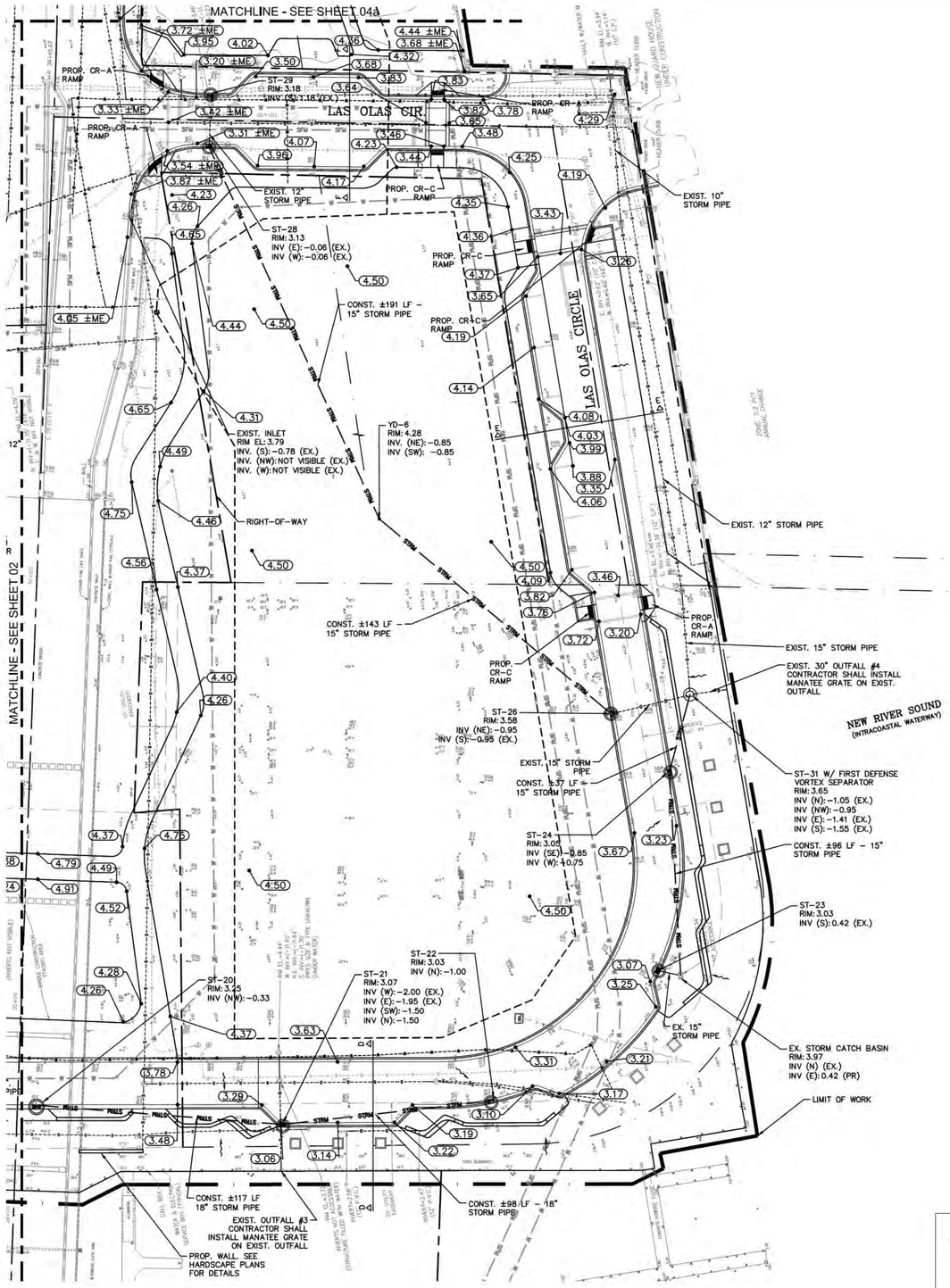


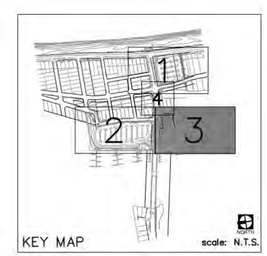
LEGEND:

- RIGHT-OF-WAY LINE
- PROPOSED WATER MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- FLOW ARROW
- 4.25 PROPOSED GRADE
- 10.25 ±ME MATCH EXISTING GRADE
- EXISTING GRADE

STRUCTURE LIST:

ST-20	CONST. USP 3-9.4 WITH USF 5112 DROP CURB INLET FRAME AND 6143 GRATE
ST-21	CONST. USP 3-9.6 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-22	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-23	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-24	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-26	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-28	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-29	CONST. USP 3-9.4 WITH USF 5130 CURB AND GUTTER INLET FRAME, HOOD AND GRATE 6168
ST-31	CONST. 6' ø PRECAST VORTEX CHAMBER WITH FIRST DEFENSE FRAME AND COVER
YD-6	CONST. ADS DRAIN BASIN 18" DIAMETER (#281246), 12" STANDARD H-20 (#1299C6S)

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.59' = (NGVD 1929)



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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73962

KHA PROJ #: 040814003

DRAWN BY:	DATE:
JJ	03/15/2016
DESIGNED BY:	SCALE:
JJ	AS SHOWN
CHECKED BY:	FIELD BOOK:
JAW	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PAVING, GRADING, AND DRAINAGE PLAN

SHEET NO. C5-1.03 X OF XX

DRAWING FILE 11900-MULTI-PGDR

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C503 PAVING GRADING AND DRAINAGE PLAN February 20, 2016 03:30:40pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-PGDR.dwg
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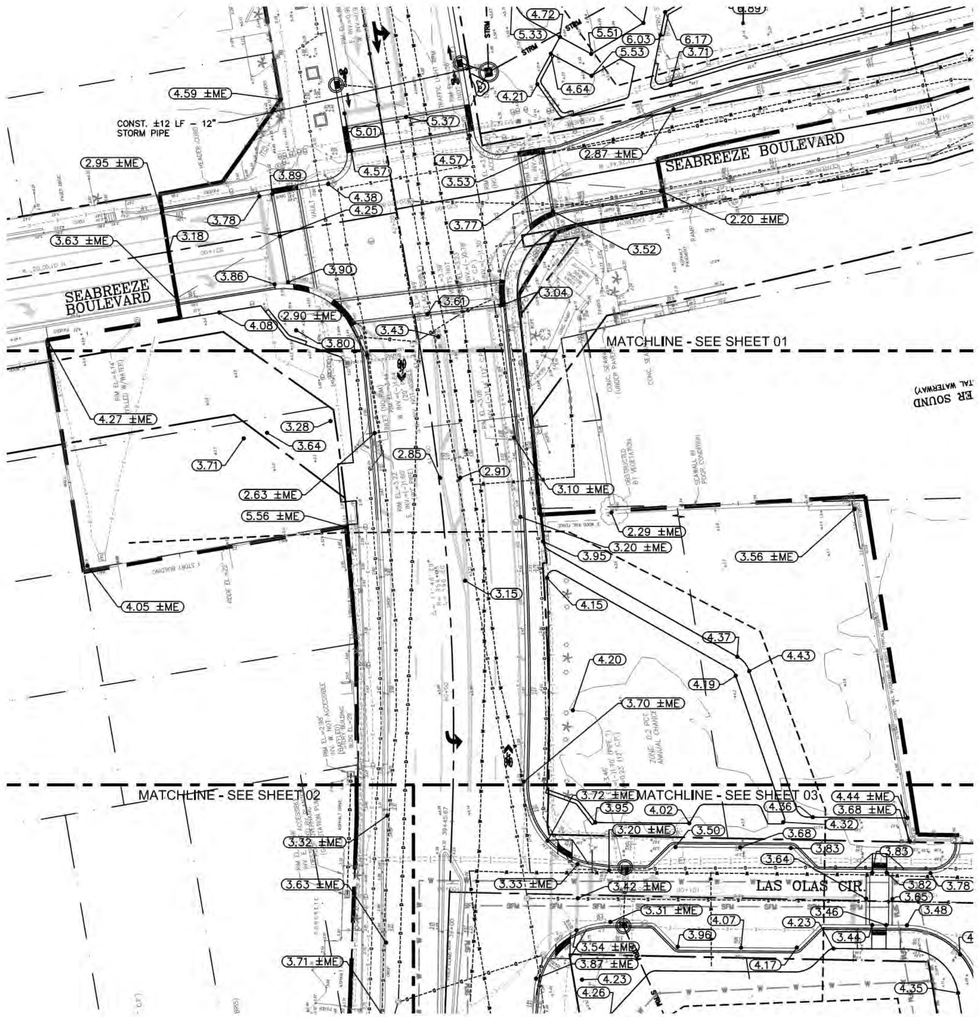
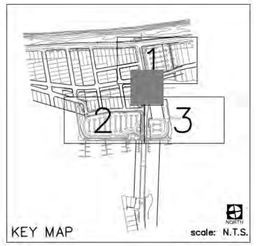


LEGEND:

- RIGHT-OF-WAY LINE
- PROPOSED WATER MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- FLOW ARROW
- 4.25 PROPOSED GRADE
- 10.25 ±ME MATCH EXISTING GRADE
- EXISTING GRADE

PLANS ARE IN NAVD 1988 DATUM
CONVERSION EQUATION IS BELOW:
(NAVD 1988) + 1.59' = (NGVD 1929)



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PAVING GRADING AND DRAINAGE PLAN

SHEET NO. C5-1.04 X OF XX

DRAWING FILE 11900-MULTI-PGDR

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C504 PAVING GRADING AND DRAINAGE PLAN February 20, 2016 03:30:45pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-PGDR.dwg

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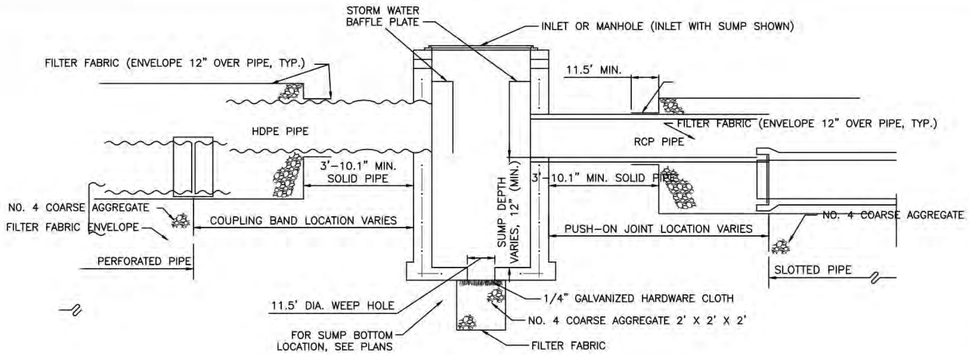
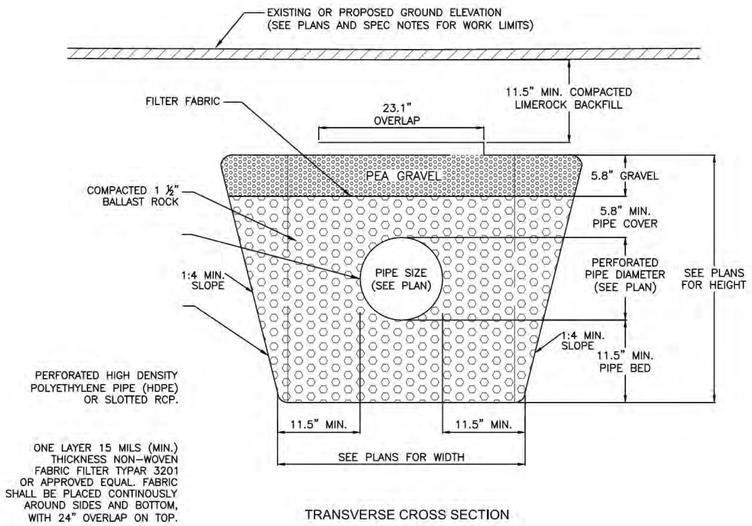




ONE LAYER 15 MILS (MIN.) THICKNESS NON-WOVEN FABRIC FILTER TYPAR 3201 OR APPROVED EQUAL. FABRIC SHALL BE PLACED CONTINOUSLY AROUND SIDES AND BOTTOM, WITH 24" OVERLAP ON TOP.

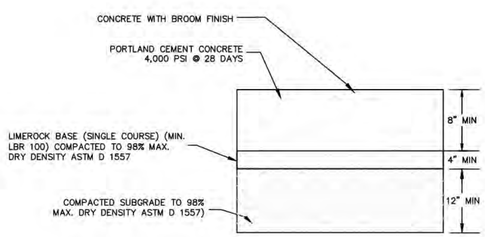
TRANSVERSE CROSS SECTION

NOTES:

1. CONTRACTOR MUST READ AND ABIDE THE CITY'S GENERAL CONSTRUCTION NOTES AND DRAINAGE DESIGN NOTES PRIOR TO STARTING CONSTRUCTION.
2. THE STANDARD CROSS SECTION SHALL BE CONSTRUCTED UNLESS OTHER SECTIONS ARE DESCRIBED OR DETAILED ON PLANS.
3. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
4. THE 12" WEEP HOLE SHALL NOT BE USED IF THE BOTTOM OF THE INLET OR MANHOLE IS BELLOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN ON PLANS.
5. FRENCH DRAINS MUST BE INSPECTED BY THE ENGINEERING INSPECTOR PRIOR TO CONTRACTOR BACKFILLING.

EXFILTRATION TRENCH SYSTEM - D620
NOT TO SCALE

FTL

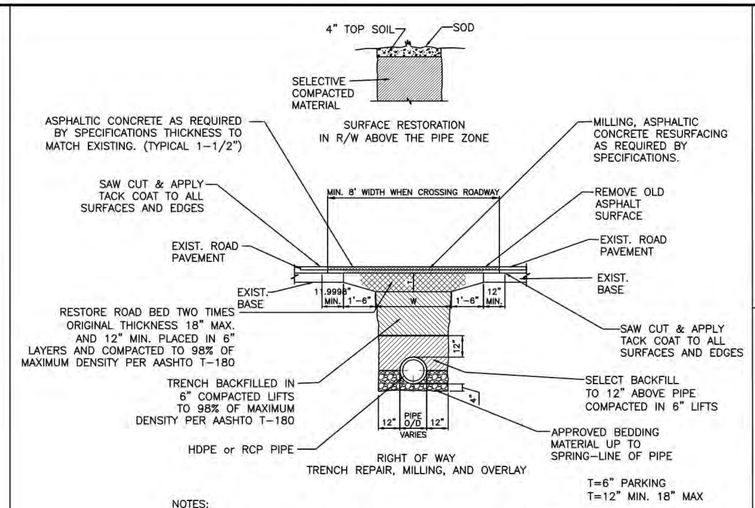


*NOTES:

1. ADDITIONAL INFORMATION BASED ON A SITE-SPECIFIC GEOTECHNICAL REPORT MAY DICTATE REVISIONS TO THIS PAVEMENT SECTION*
2. SHALL MEET FDOT RIGID DESIGN PAVEMENT CRITERIA. SEE FDOT DESIGN MANUAL LATEST EDITION.

HEAVY DUTY CONCRETE PAVEMENT SECTION
NOT TO SCALE

KHA

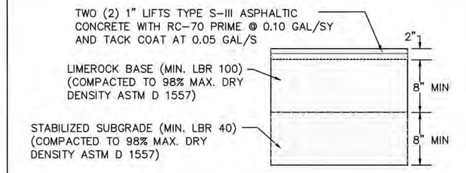


NOTES:

1. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
2. REPLACE ALL EXISTING LANE MARKINGS AND REFLECTIVE MARKERS DAMAGED BY CONSTRUCTION ACTIVITIES.

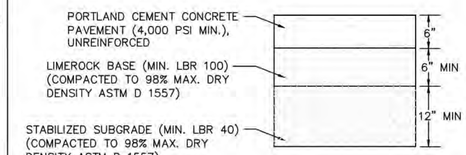
PAVEMENT RESTORATION FOR TRANSVERSE CROSSING - D100
NOT TO SCALE

FTL



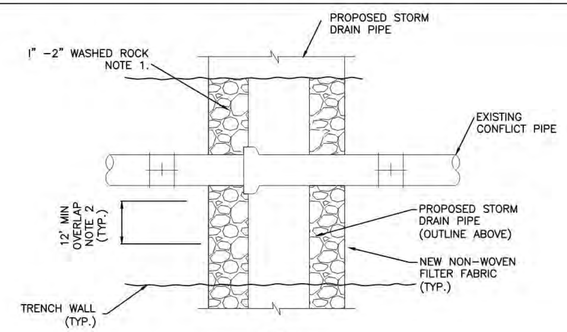
TYPICAL ASPHALTIC CONCRETE PAVEMENT SECTION
NOT TO SCALE

KHA

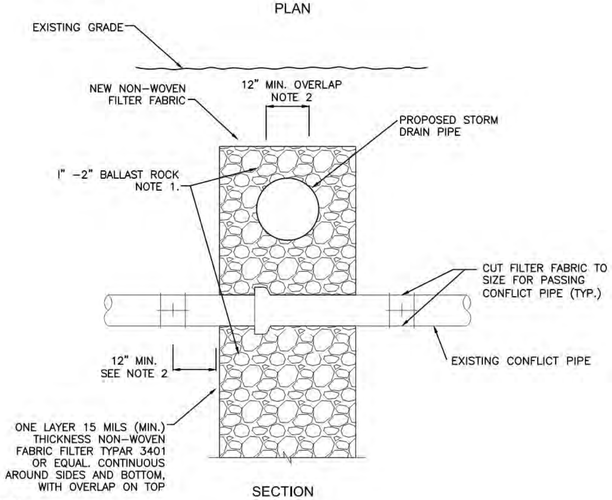


TYPICAL PORTLAND CEMENT CONCRETE PAVEMENT SECTION
NOT TO SCALE

KHA



PLAN



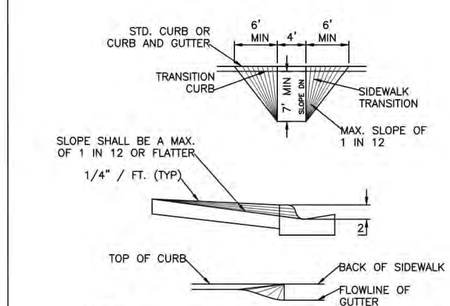
SECTION

NOTES:

1. EQUIVALENT STONE TO REPLACE DISTURBED ROCK (1" TO 2" BALLAST ROCK).
2. THE RESTORATION OF THE EXISTING TRENCH SHALL OVERLAP THE CUT WITH NEW NON-WOVEN FILTER FABRIC AND EXTENDED BEYOND THE CUT BY 1-FT. BOTTOM OF CUT SHALL ALSO BE REPAIRED WITH OVERLAPPING FABRIC.
3. AVOID INTRODUCING SAND AND SOIL INTO THE EXPOSED FRENCH DRAIN ROCK.
4. COMPACT SOIL SURROUNDING THE TRENCH IN 6" LIFTS OR PER TRENCH RESTORATION DETAIL.

EXFILTRATION TRENCH AND CONFLICT PIPE DETAIL - D602
NOT TO SCALE

FTL



NOTES:

1. RAMP PLACEMENT TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. WHERE RIGHT-OF-WAY DOES NOT ALLOW 7' RAMP, PROFILE AT BACK OF SIDEWALK MAY BE ADJUSTED TO MAINTAIN 1 IN 12 SLOPE ON RAMP.
3. RAMP IN ACCORDANCE WITH FAC (FLORIDA ACCESSIBILITY CODE) FDOT INDEX #304.

CURB RAMP - 104
NOT TO SCALE

FTL

FTL	CITY OF FORT LAUDERDALE STANDARD DETAIL
KHA	KIMLEY-HORN AND ASSOCIATES DETAIL

NOTE: DETAILS ARE INCLUDED FROM THE ENTITIES LISTED ABOVE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL OBTAIN AND CONFORM WITH THE LATEST STANDARDS AND DETAILS.

60% CD SUBMITTAL

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NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
PAVING GRADING AND DRAINAGE DETAILS

SHEET NO. C5-4.01 X OF XX

DRAWING FILE 11900-C504-PDET

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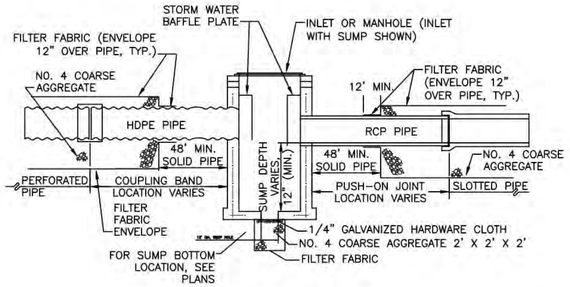
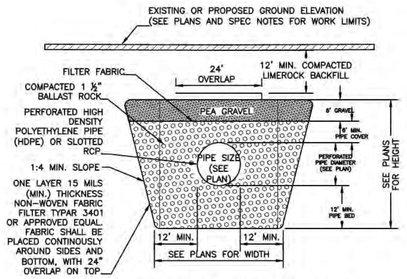


LONGITUDINAL CROSS SECTION

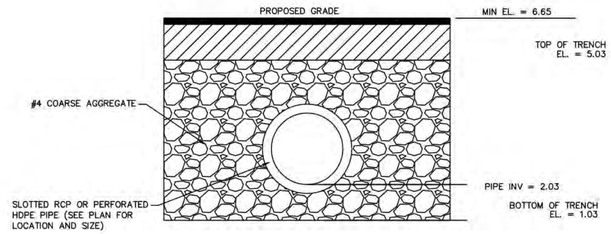


TRANSVERSE CROSS SECTION

NOTES:
1. CONTRACTOR MUST READ AND ABIDE THE CITY'S GENERAL CONSTRUCTION NOTES AND DRAINAGE DESIGN NOTES PRIOR TO STARTING CONSTRUCTION.
2. THE STANDARD CROSS SECTION SHALL BE CONSTRUCTED UNLESS OTHER SECTIONS ARE DESCRIBED OR DETAILED ON PLANS.
3. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
4. THE 12" WEEP HOLE SHALL NOT BE USED IF THE BOTTOM OF THE INLET OR MANHOLE IS BELLOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN ON PLANS.
5. FRENCH DRAINS MUST BE INSPECTED BY THE ENGINEERING INSPECTOR PRIOR TO CONTRACTOR BACKFILLING.

FTL — CITY OF FORT LAUDERDALE STANDARD DETAIL

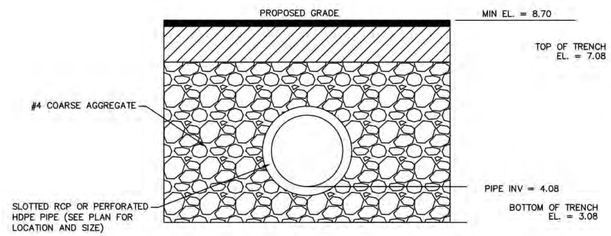
EXFILTRATION TRENCH SYSTEM - D620
NOT TO SCALE



NOTES:
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 285.
2. FILTER FABRIC ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

TYPICAL EXFILTRATION TRENCH DETAIL NO. 2
NOT TO SCALE

KHA



NOTES:
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 285.
2. FILTER FABRIC ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

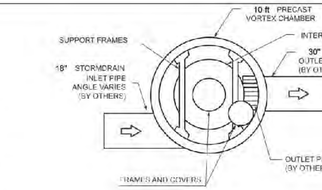
TYPICAL EXFILTRATION TRENCH DETAIL NO. 2
NOT TO SCALE

KHA

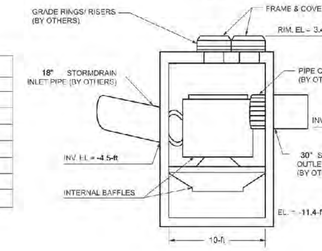
SPECIFICATION REQUIREMENTS:
1. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
2. The Treatment System shall remove 80% or greater of TSS at the WQF.
3. The Treatment System shall treat all flows up to PTFR without bypass or loss of stored pollutants.
4. The Max. Headloss shall not be exceeded at PTFR with max. inlet pipe diameter.

DETAIL NOTES:
1. An acceptable pipe coupler shall be used to connect the Downstream Defender's internal outlet stub to the stormdrain.
2. The diameter of the Downstream Defender's outlet stub is not adjustable. Any reducers required to match different stormdrain diameter must occur outside of the vortex chamber.
3. The inlet pipe diameter must not be larger than the outlet pipe diameter.
4. The tangential inlet pipe angle is not site specific. Refer to project plans and fabrication drawings.
5. A 4-ft diameter model has one 36-inch cover.

Treatment System Specifications	
Vortex Chamber Diameter (DIA)	10-ft
Max. Outlet Pipe Diameter	30"
Max. Inlet Pipe Diameter	30"
Max. Treatment Flow Rate (MTFR)	15.42cfs
Peak Treatment Flow Rate (PTFR)	25cfs
Max. Headloss	1.2-ft
Sediment Storage	8.7yd³
Oil Storage	1050gal



PLAN VIEW
N.T.S.



ELEVATION VIEW
N.T.S.

NOTES
1. This is a standard detail and is not site specific. Actual inlet pipe diameter and angle may be different.
2. Refer to submittal or fabrication drawings for final rim and invert elevations. NOTE: Elevation of inlet invert is one pipe diameter lower than the outlet invert.
3. Contact Hydro International for site specific drawings.

REVISION HISTORY

REV	BY	DATE	DESCRIPTION
			FIRST ISSUE

Date 02/19/2016 — Scale NTS — Drawn — Checked — Approved

10-ft DOWNSTREAM DEFENDER® STANDARD ON-LINE DETAIL

DD1

PROJECT NAME: Las Olas

PROJECT LOCATION: Fort Lauderdale, FL

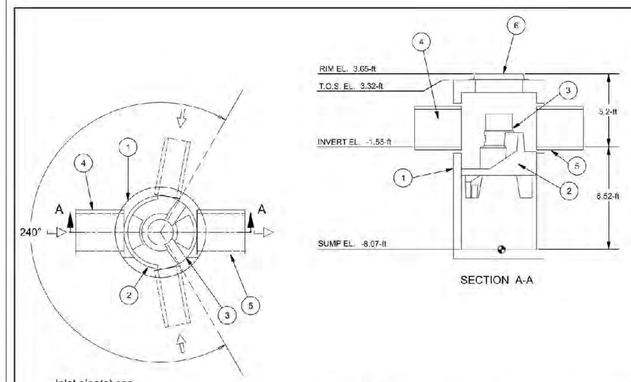
Hydro International

Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

CAD Ref: WEB DD SIZING CALC.
Project No.
Drawing No. Rev. A1401

DO NOT USE FOR CONSTRUCTION OR FABRICATION

© 2014 Hydro International
ANY WARRANTY SET FORTH BY HYDRO INTERNATIONAL WILL APPLY ONLY TO INSTALLATIONS INSTALLED BY IT, ACCORDING TO THE HYDRO INTERNATIONAL ACCEPTANCE AND RESPONSIBILITY CHECKLIST SENT TO THE PLANT DESIGNER OR THE PERFORMANCE CHECK DESIGNED, BUILT, MANUFACTURED OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAS A POLICY OF CONTINUOUS DEVELOPMENT AND REGRETS THE RIGHT TO CHANGE THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF THE EQUIPMENT, OR ANY PART THEREOF, IF THE EQUIPMENT IS NOT ACCESSIBLE TO CONDUCT THE PERFORMANCE CHECK AS SPECIFIED BELOW. HYDRO INTERNATIONAL CANNOT BE RESPONSIBLE FOR THE COST OF REPAIR, REPLACEMENT, REMOVAL OR DISMANTLING OF THE EQUIPMENT OR ANY PART THEREOF, WHICH MAY BE NECESSARY IF THE EQUIPMENT IS NOT ACCESSIBLE TO CONDUCT THE PERFORMANCE CHECK AS SPECIFIED BELOW. HYDRO INTERNATIONAL MUST NOT BE HELD RESPONSIBLE FOR ANY DAMAGE OR DELAY WHICH MAY OCCUR DURING THE PERFORMANCE CHECK.



SECTION A-A

Inlet pipe(s) can enter anywhere within 240° arc.

Notes
1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

Parts List		
ITEM	SIZE (in)	DESCRIPTION
1	72	I.D. PRECAST MANHOLE
2		LEDGER SUPPORT
3		SEPARATION MODULE
4	30	INLET PIPE (BY OTHERS), MAX. 30 in.
5	30	OUTLET PIPE (BY OTHERS), MAX. 30 in.
6	30	GRATE

© 2014 Hydro International

GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific fabrication drawings.
2. The maximum diameter of the inlet & outlet pipes is m. For larger pipes, please contact Hydro International for additional design assistance.
3. Multiple inlet pipes possible (refer to project plans).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
5. Peak flow rate limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

PRODUCT SPECIFICATIONS:
A. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
B. The treatment system shall fit within the limits of excavation (area and depth) as shown in the project plans and will not exceed the dimensions for the design flow rates specified herein.
C. The treatment system shall remove greater than or equal to 80% of TSS at the water quality flow rate.
D. The treatment system shall convey the Peak On-line Flow Rates of up to cfs without causing upstream surcharge conditions. Full-scale independent laboratory water testing shall demonstrate efficient control of less than or equal to 0 mg/L for all flows up to 200% of the maximum treatment flow rate for 106 micron particles.
E. The treatment system shall be capable of capturing and retaining fine silt and sand size particles. Analysis of captured sediment from full-scale field installations shall demonstrate particle sizes predominately in the 20-micron range.

REV	BY	DATE	DESCRIPTION
	RC	12/3/2014	FIRST ISSUE

REVISION HISTORY

Date 02/19/2016 — Scale 1/4" = 1'0" — Drawn RC — Checked — Approved

FIRST DEFENSE® MODEL 6-HC ONLINE

FD1

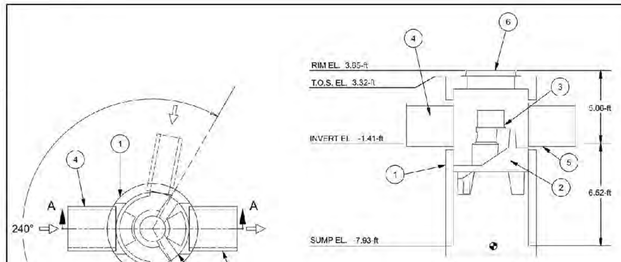
PROJECT NAME: Las Olas

PROJECT LOCATION: Fort Lauderdale, FL

Hydro International

Stormwater Solutions
6-1 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

CAD Ref: WEB SC FD 6HC
Project No. xx-xxxx
Drawing No. Rev. A



SECTION A-A

Inlet pipe(s) can enter anywhere within 240° arc.

Notes
1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
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3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

Parts List		
ITEM	SIZE (in)	DESCRIPTION
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3		SEPARATION MODULE
4	30	INLET PIPE (BY OTHERS), MAX. 30 in.
5	30	OUTLET PIPE (BY OTHERS), MAX. 30 in.
6	30	GRATE

© 2014 Hydro International

GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific fabrication drawings.
2. The maximum diameter of the inlet & outlet pipes is m. For larger pipes, please contact Hydro International for additional design assistance.
3. Multiple inlet pipes possible (refer to project plans).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
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E. The treatment system shall be capable of capturing and retaining fine silt and sand size particles. Analysis of captured sediment from full-scale field installations shall demonstrate particle sizes predominately in the 20-micron range.

REV	BY	DATE	DESCRIPTION
	RC	12/5/2014	FIRST ISSUE

REVISION HISTORY

Date 02/19/2016 — Scale 1/4" = 1'0" — Drawn RC — Checked — Approved

FIRST DEFENSE® MODEL 6-HC ONLINE

FD2

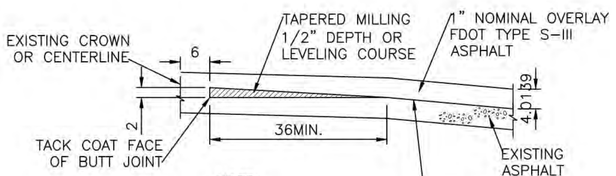
PROJECT NAME: Las Olas

PROJECT LOCATION: Fort Lauderdale, FL

Hydro International

Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

CAD Ref: WEB SC FD-6HC
Project No. xx-xxxx
Drawing No. Rev. A



NOTE:
1. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.

ASPHALT TAPER DETAIL - D101
NOT TO SCALE

FTL

FTL — CITY OF FORT LAUDERDALE STANDARD DETAIL

KHA — KIMLEY-HORN AND ASSOCIATES DETAIL

NOTE: DETAILS ARE INCLUDED FROM THE ENTITIES LISTED ABOVE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL OBTAIN AND CONFORM WITH THE LATEST STANDARDS AND DETAILS.

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954.524.3330

Kimley»Horn
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PHONE: 561-243-7445 FAX: 561-243-7445
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SEAL:
JASON A. WEBBER, P.E.
73962
KHA PROJ #: 040814003

DATE: 03/15/2016 — SCALE: AS SHOWN — DRAWN BY: JJ — DESIGNED BY: JJ — CHECKED BY: JAW — FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL
PAVING GRADING AND DRAINAGE DETAILS

SHEET NO. C5-4.02 — X OF XX
DRAWING FILE 11900-C504-PDET

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C5-4.02 PAVING GRADING AND DRAINAGE DETAILS February 20, 2016 03:31:10pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\C5-4.02 PAVING GRADING AND DRAINAGE DETAILS.dwg
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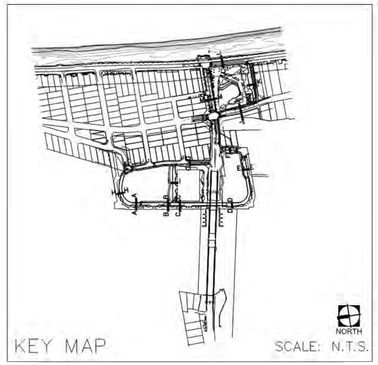

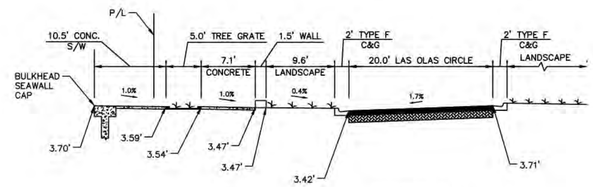

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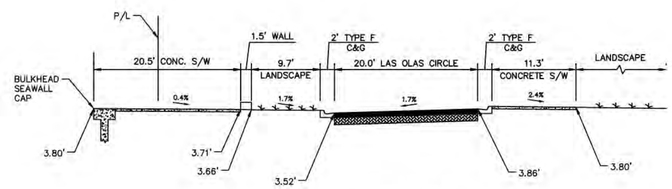

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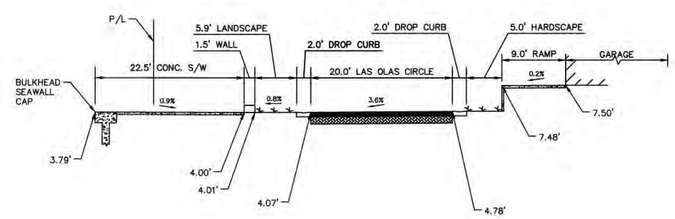

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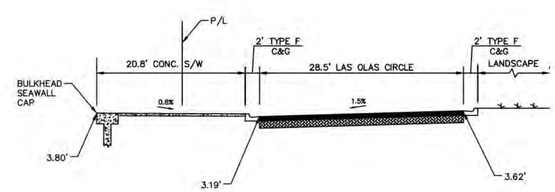

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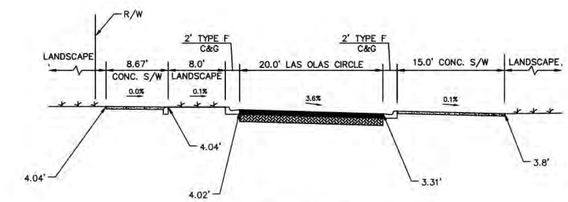

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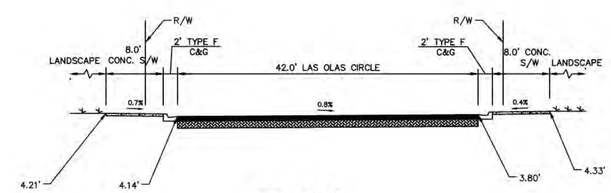

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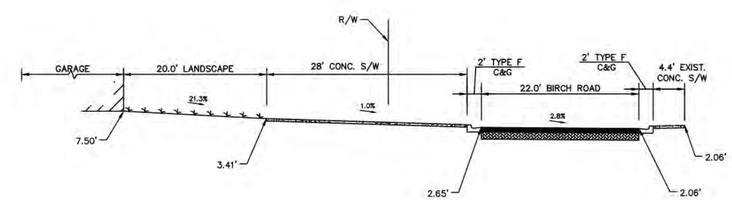

SECTION G-G
NOT TO SCALE

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Fort Lauderdale, FL 33301
954.524.3330

Kimley»Horn
1920 CONGRESS AVE. SUITE 105
DELRAY BEACH FL 33445
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WWW.KIMLEY-HORN.COM CA 00000550
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SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PROPOSED CROSS SECTIONS

SHEET NO. C5-4.03 X OF XX

DRAWING FILE 11900-C505-PRCR

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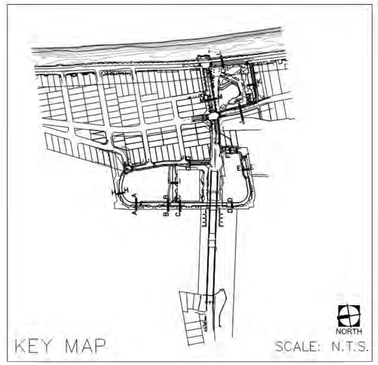

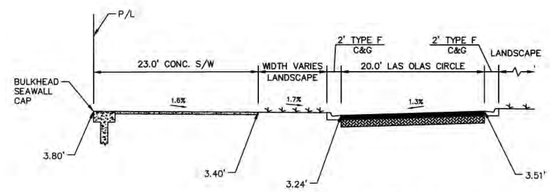

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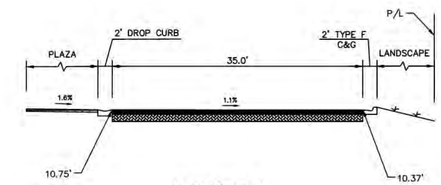

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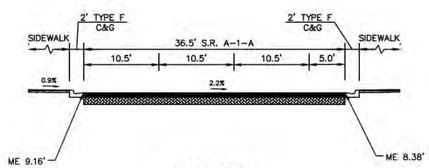

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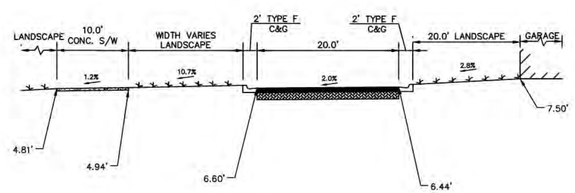

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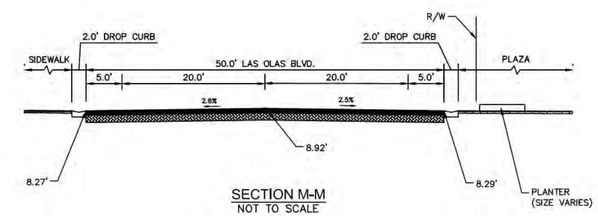

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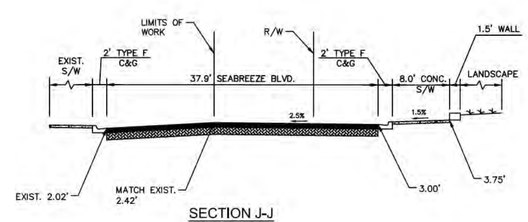

SECTION J-J
NOT TO SCALE

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Fort Lauderdale, FL 33301
954.524.3330

Kimley»Horn
1920 CONGRESS AVE. SUITE 105
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WWW.KIMLEY-HORN.COM CA 00000692
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SEAL:
JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DRC REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

PROPOSED CROSS SECTIONS

SHEET NO. C5-4.04
X OF XX
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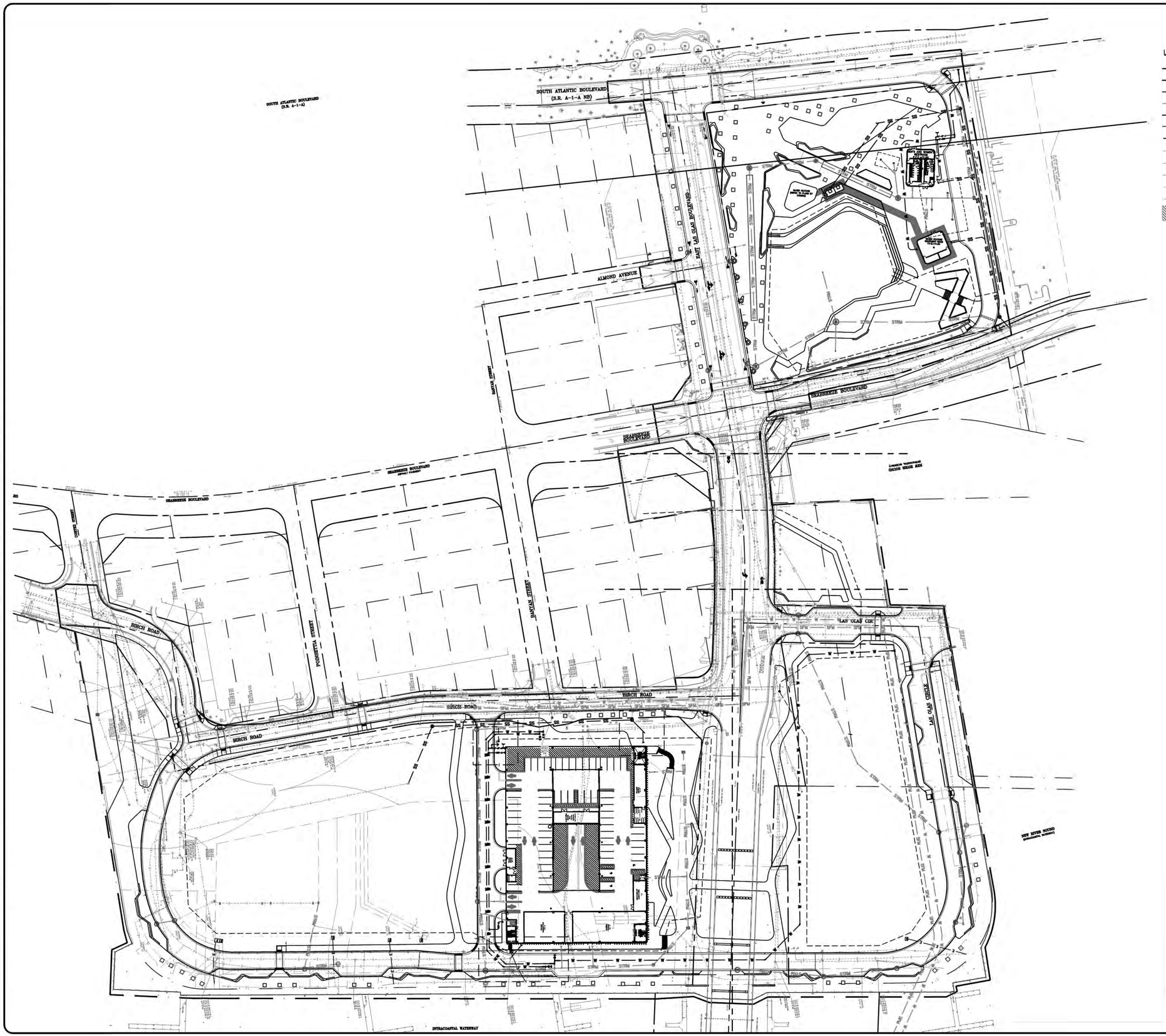

LEGEND:

- RIGHT-OF-WAY
- PROPOSED WATER MAIN
- PROPOSED FIRE MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- PROPOSED ELECTRIC
- PROPOSED IRRIGATION
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- EXISTING ELECTRIC
- WATER FEATURE MECHANICAL PIPING (REFER TO SHEET F1.01)

NORTH

SCALE: 1"=60'-0"

0 30' 60' 120' 180'

60% CD SUBMITTAL

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JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
1	1/8/2016	JJ	JAW	DCR REVISION - 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

OVERALL UTILITY PLAN

SHEET NO.
C6-1.00

X OF XX

DRAWING FILE
11900-MULTI-UTIL

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C6-1.00 OVERALL UTILITY PLAN February 20, 2016 03:33:00pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-UTIL.dwg

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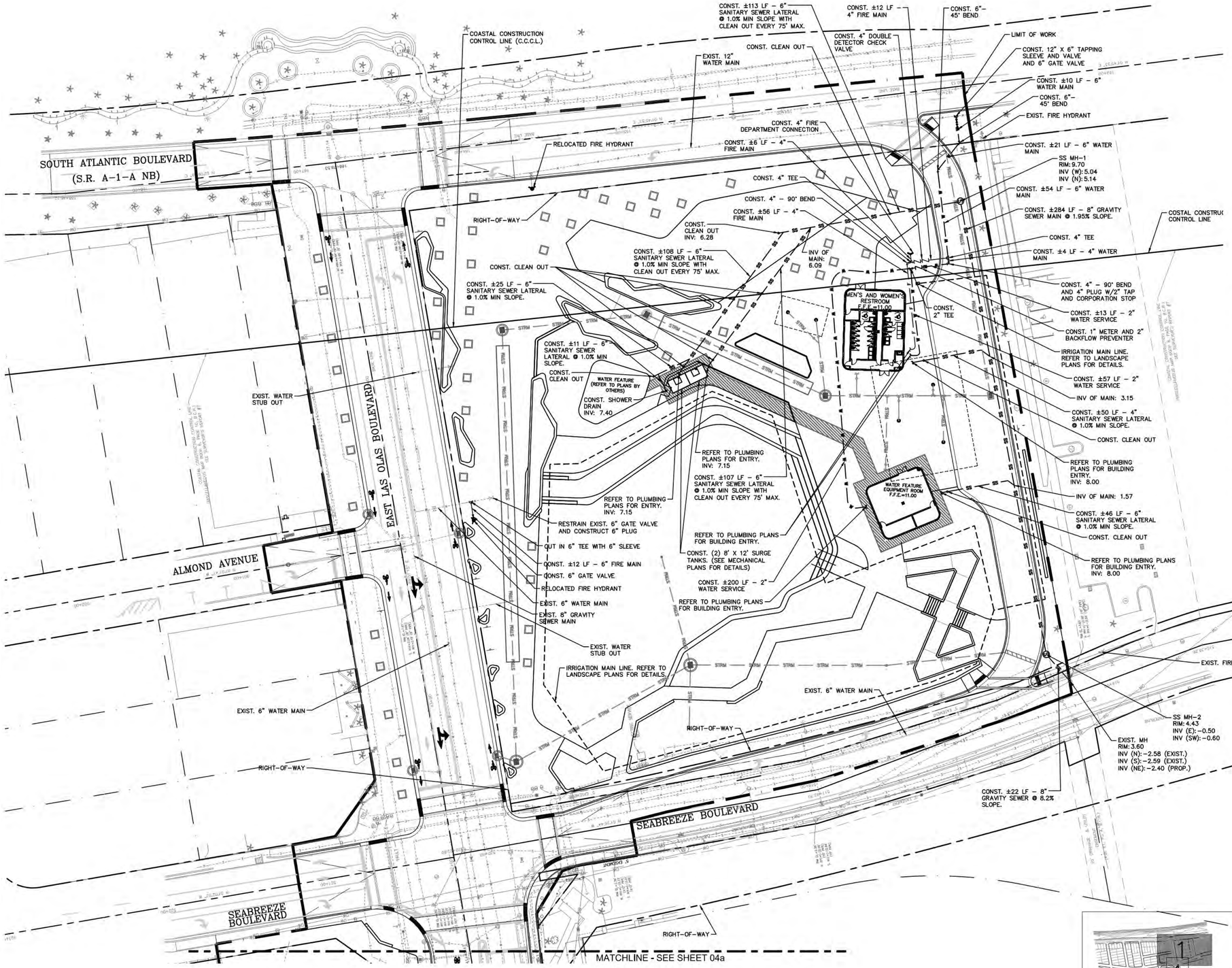
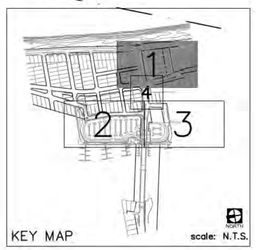


LEGEND:

- RIGHT-OF-WAY
- PROPOSED WATER MAIN
- PROPOSED FIRE MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- PROPOSED ELECTRIC
- PROPOSED IRRIGATION
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- EXISTING ELECTRIC
- WATER FEATURE MECHANICAL PIPING (REFER TO SHEET F1.01)

UTILITY NOTES:

1. ALL WATER MAIN (WM) 4"–12" SHALL BE PVC C-900 UNLESS OTHERWISE NOTED.
2. ALL WATER MAIN (WM) 16" AND LARGER SHALL BE DIP UNLESS OTHERWISE NOTED.
3. ALL WATER SERVICE LINES SHALL BE MINIMUM 2"-SDR9 PE UNLESS OTHERWISE NOTED.
4. ALL FIRE MAIN (F) SHALL BE DIP UNLESS OTHERWISE NOTED.
5. ALL DUCTILE IRON PIPE (DIP) SHALL BE CLASS 350 UNLESS OTHERWISE NOTED. ALL DIP SHALL BE MARKED PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STANDARDS.
6. ALL WATER MAIN SHALL HAVE A MINIMUM 36" COVER OVER THE TOP OF THE PIPE UNLESS OTHERWISE NOTED. WATER AND FIRE MAINS SHALL HAVE MIN. 6" VERTICAL SEPARATION FROM EACH OTHER.
7. ALL FITTINGS FOR WATER MAIN, FIRE MAIN, AND SEWER FORCE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS UNLESS OTHERWISE NOTED.
8. PIPE DEFLECTION OF WATER MAIN, FIRE MAIN, AND SEWER FORCE MAIN SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
9. ALL GRAVITY SEWER MAINS (SS) SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED. ALL GRAVITY SEWER LATERALS SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING AND PROPOSED UTILITIES WHEN CONSTRUCTING NEW UTILITIES.
11. CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY PIPE AND FITTINGS TO TRANSITION PIPE MATERIALS WHEN REQUIRED AND TO CONNECT TO BUILDING PLUMBING.
12. ALL MANHOLES, VALVES, CLEANOUTS AND OTHER SUCH BOXES IN PAVEMENT OR SIDEWALKS SHALL BE SET FLUSH WITH PAVEMENT TO MATCH THE PROPOSED SLOPE AND SHALL BE H-20 TRAFFIC RATED.



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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KHA PROJ #: 040814003

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DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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1	1/8/2016	JJ	JAW	DCR REVISION – 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY PLAN

SHEET NO. C6-1.01 X OF XX

DRAWING FILE 11900-MULTI-UTIL

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C6-1.01 UTILITY PLAN February 20, 2016 03:33:06pm K:\BCD_Roadway\040814003 – FTL Las Olas\CADD\PlanSheets\11900-MULTI-UTIL.dwg

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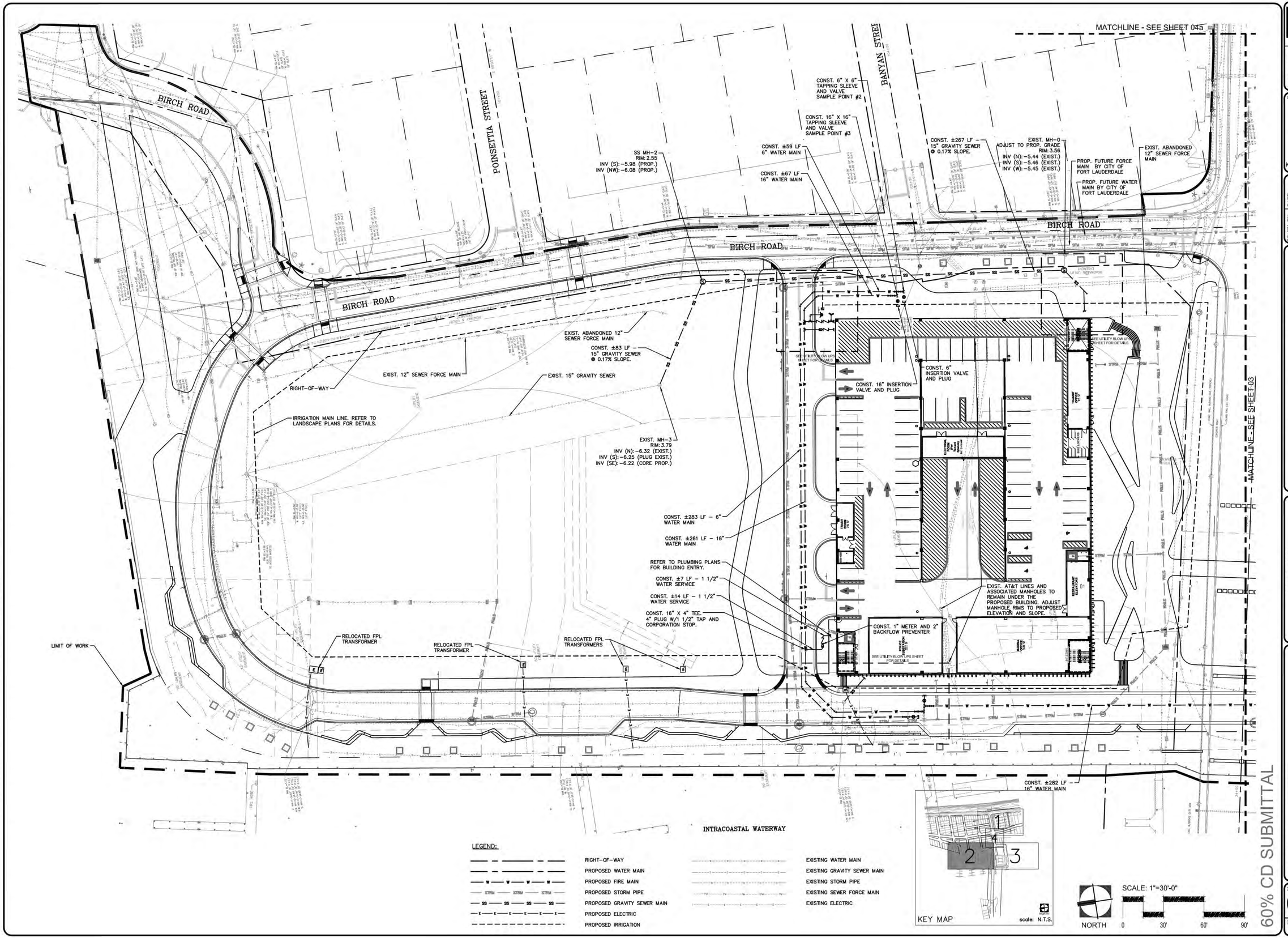

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY PLAN

SHEET NO. C6-1.02 X OF XX

DRAWING FILE 11900-MULTI-UTIL

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C6-1.02 UTILITY PLAN February 20, 2016 03:33:13pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-UTIL.dwg
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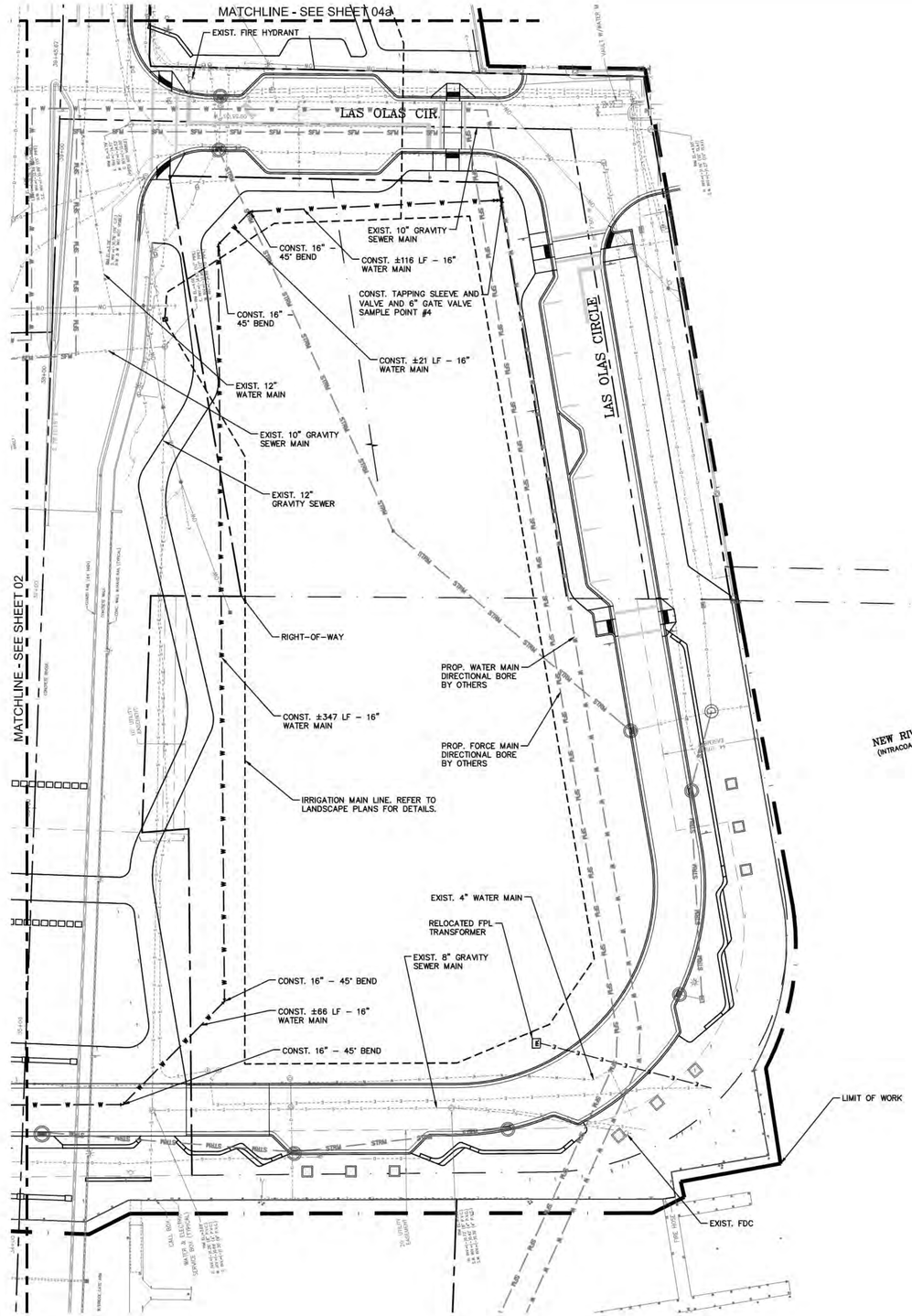
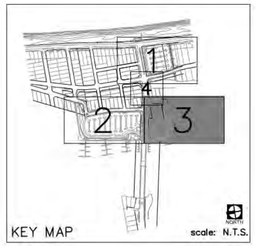


LEGEND:

- RIGHT-OF-WAY
- PROPOSED WATER MAIN
- PROPOSED FIRE MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- PROPOSED ELECTRIC
- PROPOSED IRRIGATION
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- EXISTING ELECTRIC



KEY MAP scale: N.T.S.

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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KHA PROJ #: 040814003

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DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY PLAN

SHEET NO. C6-1.03 X OF XX

DRAWING FILE 11900-MULTI-UTIL

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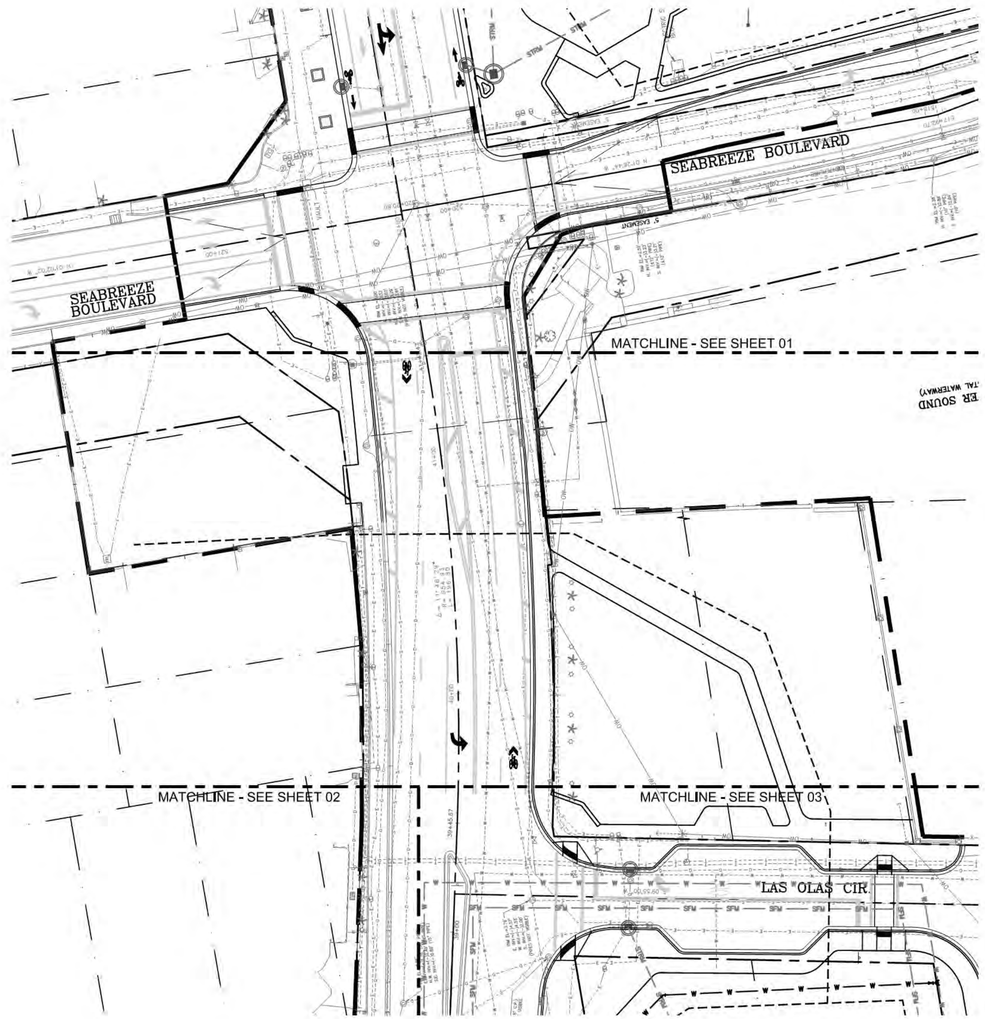
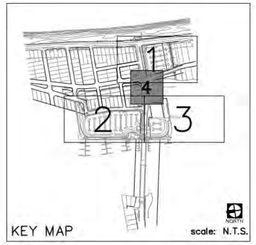


LEGEND:

- RIGHT-OF-WAY
- PROPOSED WATER MAIN
- PROPOSED FIRE MAIN
- PROPOSED STORM PIPE
- PROPOSED GRAVITY SEWER MAIN
- PROPOSED ELECTRIC
- PROPOSED IRRIGATION
- EXISTING WATER MAIN
- EXISTING GRAVITY SEWER MAIN
- EXISTING STORM PIPE
- EXISTING SEWER FORCE MAIN
- EXISTING ELECTRIC



NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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73962

KHA PROJ #: 040814003

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CHECKED BY: JAW	FIELD BOOK:

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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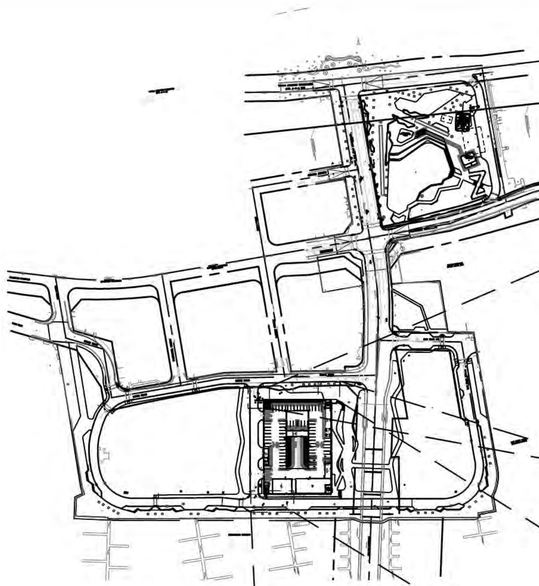
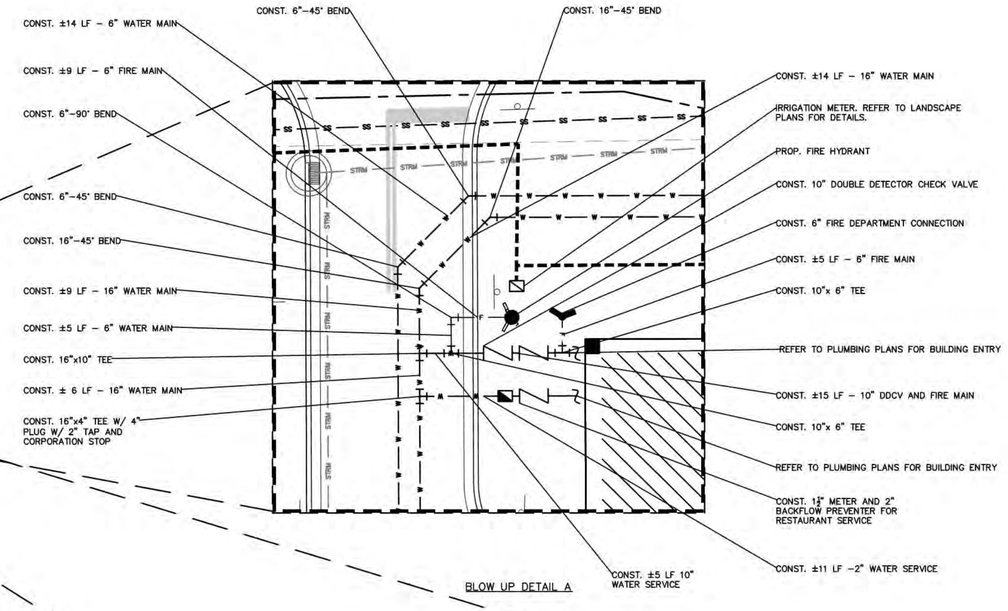
PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY PLAN

SHEET NO. C6-1.04 X OF XX

DRAWING FILE 11900-MULTI-UTIL





LEGEND:

	RIGHT-OF-WAY
	PROPOSED WATER MAIN
	PROPOSED FIRE MAIN
	PROPOSED STORM PIPE
	PROPOSED GRAVITY SEWER MAIN
	PROPOSED ELECTRIC
	PROPOSED IRRIGATION
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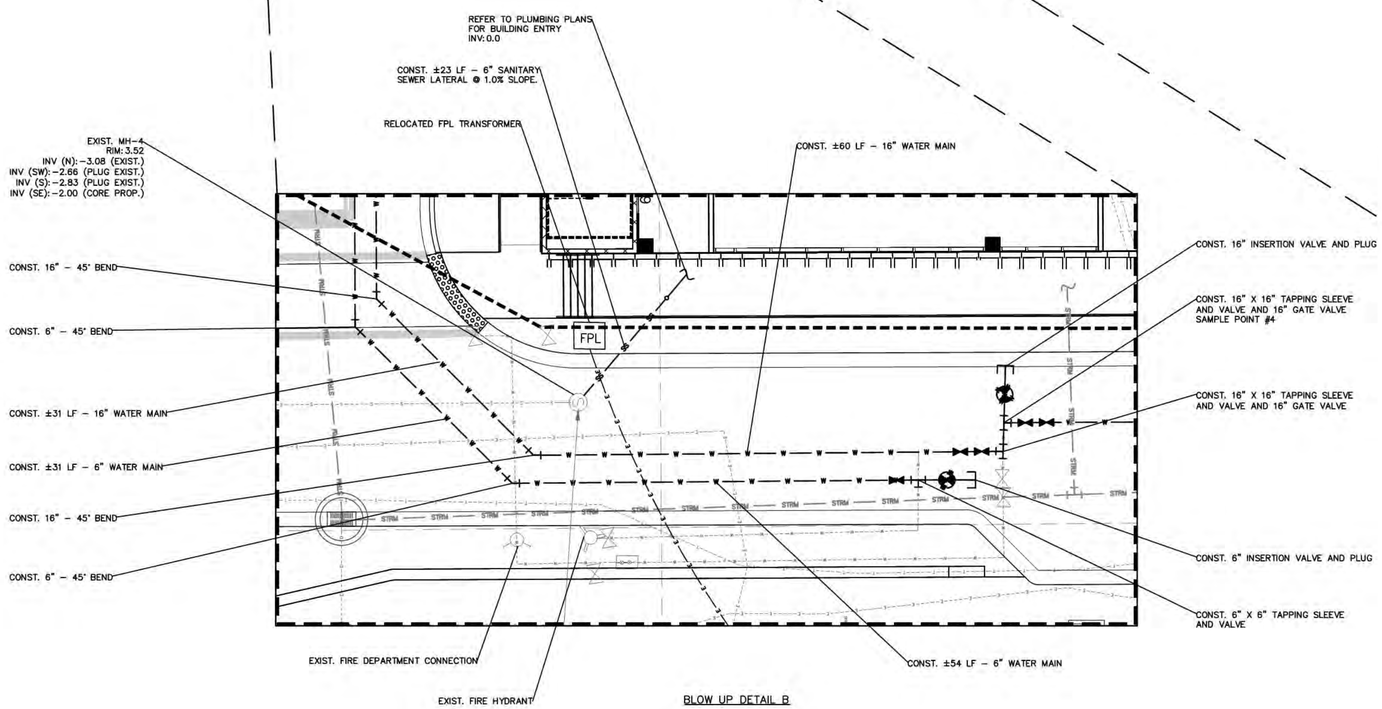

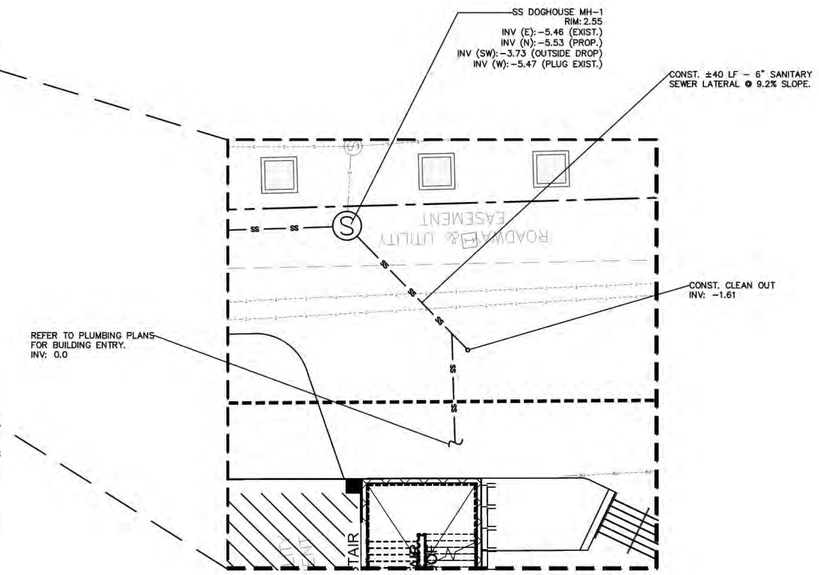

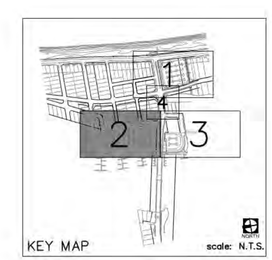

NORTH

SCALE: 1"=30'-0"

0 30' 60' 90'

60% CD SUBMITTAL

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REVISIONS

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1	1/8/2016	JJ	JAW	DCR REVISION – 1

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY BLOW UP

SHEET NO. C6-3.01 X OF XX

DRAWING FILE 11900-MULTI-UTIL

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C6-3.01 UTILITY BLOW UP February 20, 2016 03:33:34pm K:\BCD_Roadway\040814003 – FTL Las Olas\CADD\PlanSheets\11900-MULTI-UTIL.dwg
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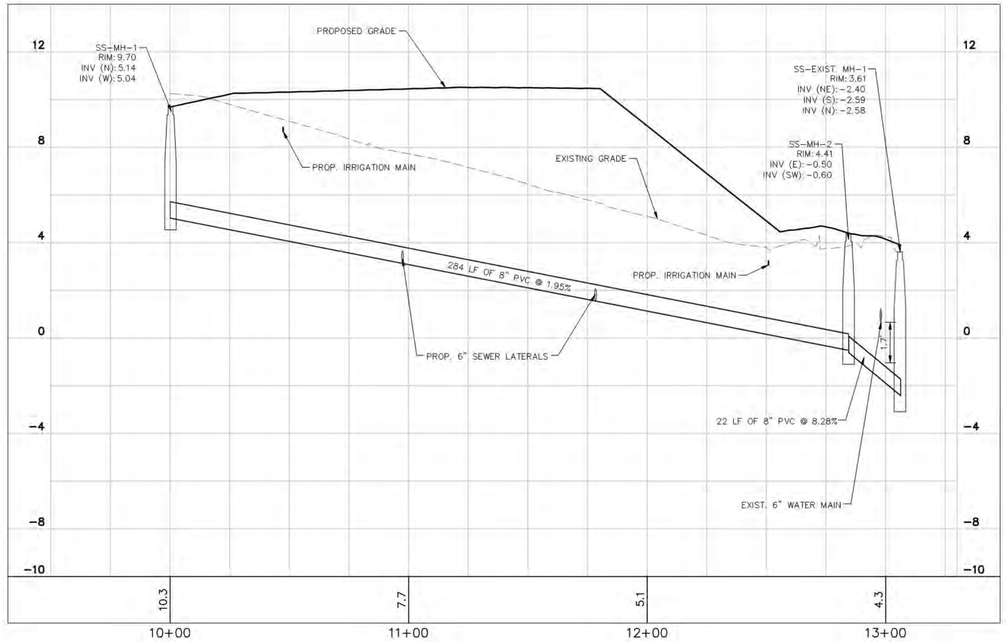
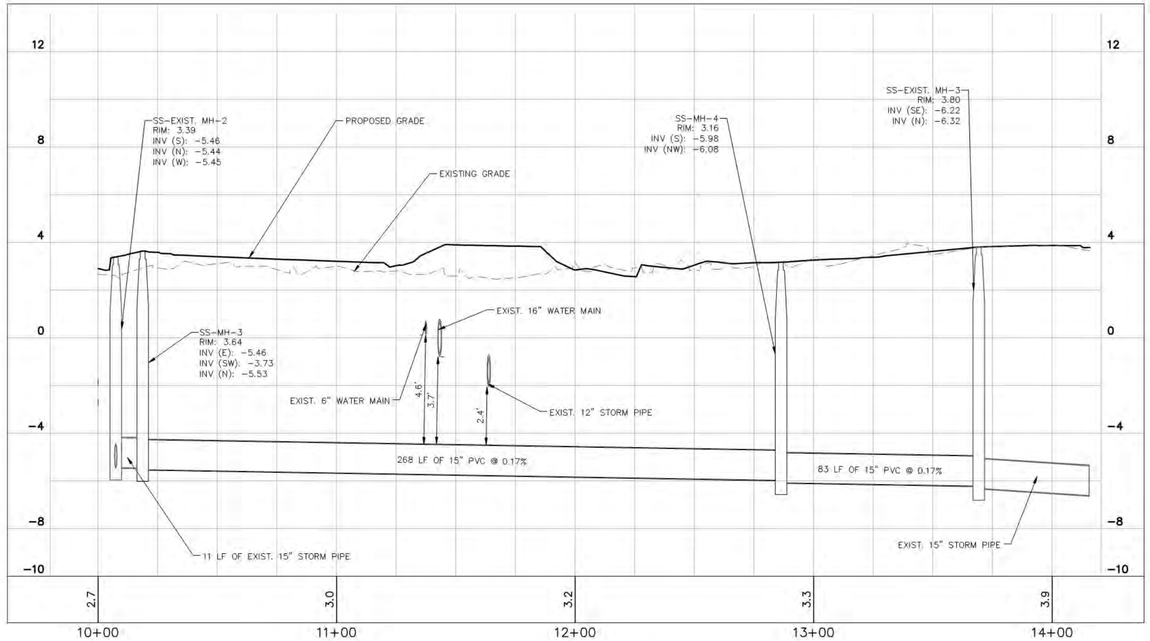


SEWER PROFILE A-A
SEE UTILITY PLAN SHEET C6-1.01



SEWER PROFILE B-B
SEE UTILITY PLAN SHEET C6-1.02

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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

SEWER PROFILES

SHEET NO. C6-3.02
X OF XX
DRAWING FILE 11900-MULTI-UTIL

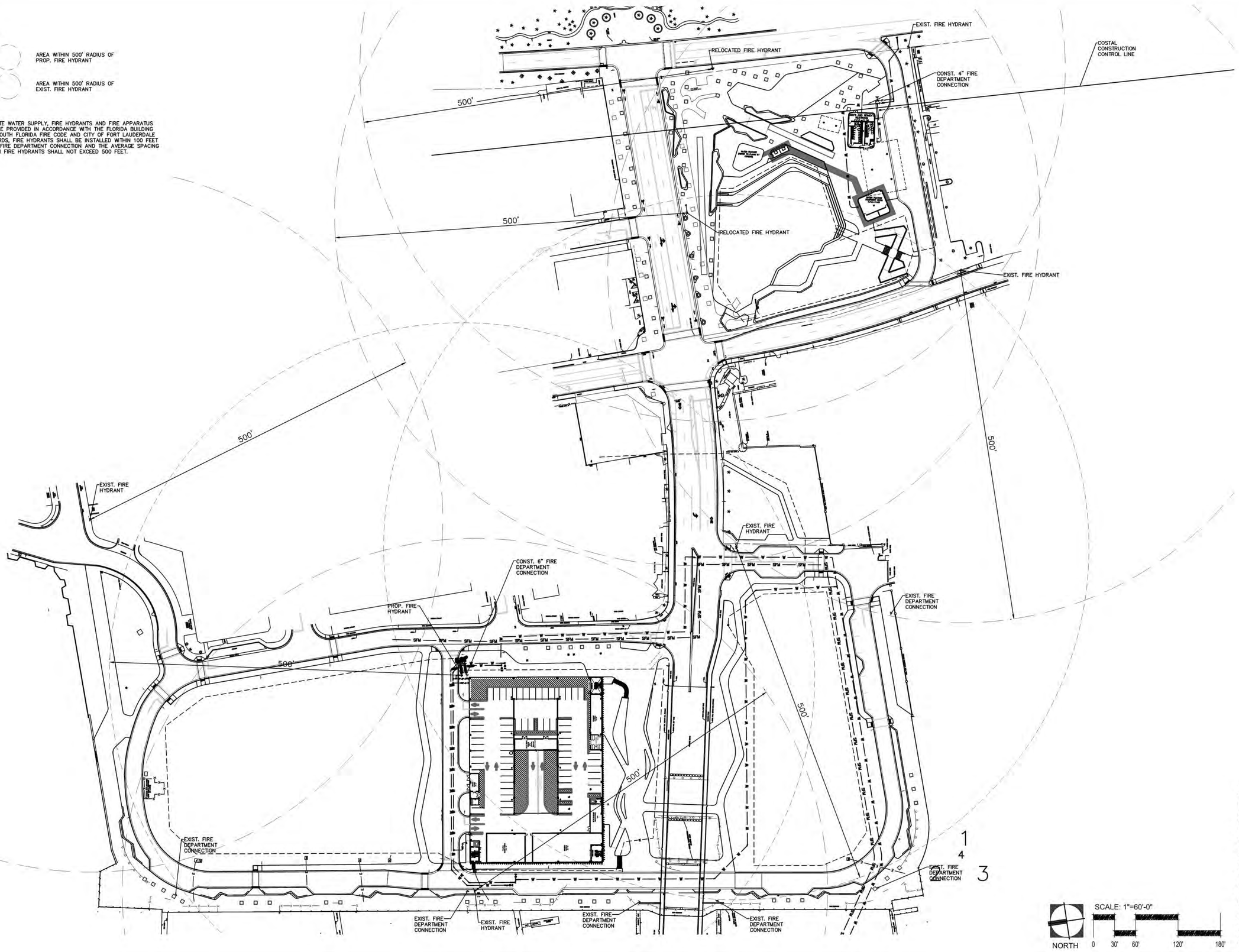
LEGEND:

AREA WITHIN 500' RADIUS OF PROP. FIRE HYDRANT

AREA WITHIN 500' RADIUS OF EXIST. FIRE HYDRANT

NOTES:

1. ADEQUATE WATER SUPPLY, FIRE HYDRANTS AND FIRE APPARATUS SHALL BE PROVIDED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, SOUTH FLORIDA FIRE CODE AND CITY OF FORT LAUDERDALE STANDARDS. FIRE HYDRANTS SHALL BE INSTALLED WITHIN 100 FEET OF THE FIRE DEPARTMENT CONNECTION AND THE AVERAGE SPACING BETWEEN FIRE HYDRANTS SHALL NOT EXCEED 500 FEET.



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PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

FIRE HYDRANT LOCATION PLAN

SHEET NO. C6-3.03 X OF XX

DRAWING FILE 11900-MULTI-UTIL

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C6-3.03 FIRE HYDRANT LOCATION PLAN February 20, 2016 04:00:28pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-FHYD.dwg

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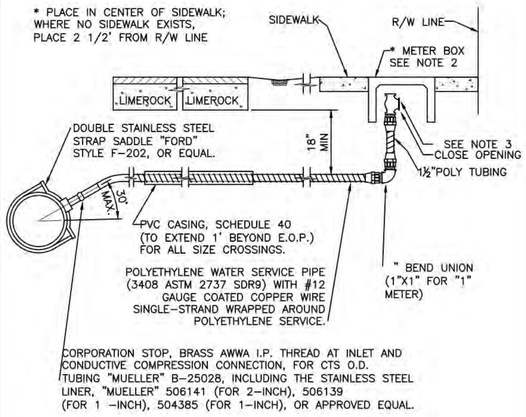
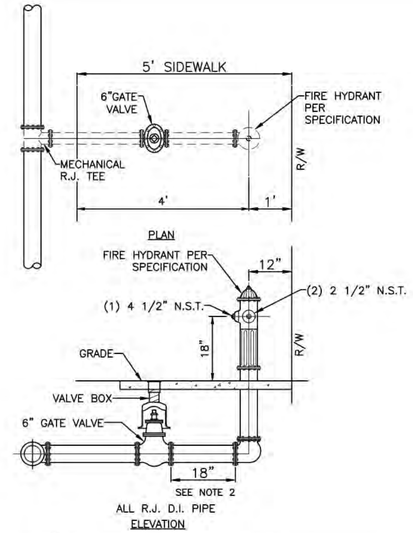


NOTE:

1. GROUND KEY ANGLE METER STOP,CONDUCTIVE COMPRESSION FOR CTS O.D. TUBING, X METER FLANGE 180° TURN CHECK-LOCK WING "MUELLER" H-14277, FOR 2-INCH INCLUDING THE STAINLESS STEEL LINER, "MUELLER" 506141 (FOR 2-INCH) OR APPROVED EQUAL, AND MUELLER 110 COMPRESSION CONNECTION.
2. METER BOXES FOR 5/8, 3/4, AND 1 INCH METERS SHALL BE THE OKIE DOKIE #890-40-260282 MEDIUM BOX AND 890-40-260257 MEDIUM LID OR EQUAL.
3. CONNECT ANGLE VALVE TO EXISTING METER WHERE APPLICABLE.

TYPICAL WATER SERVICE INSTALLATION - 300
NOT TO SCALE

FTL

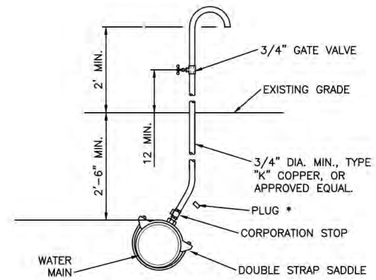


NOTES:

1. ACTUAL LOCATION OF FIRE HYDRANT TO BE DECIDED IN THE FIELD WITH ENGINEER'S APPROVAL.
2. KEEP VALVE AS CLOSE AS POSSIBLE TO THE HYDRANT.

TYPICAL NEW FIRE HYDRANT ASSEMBLY INSTALLATION - 302
NOT TO SCALE

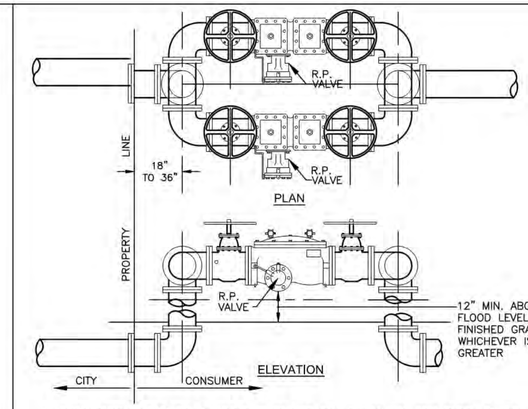
FTL



* NOTE: AFTER TESTS REMOVE 3/4" TUBING AND INSTALL PLUG ON CORPORATION STOP.

TYPICAL BACTERIOLOGICAL SAMPLING POINT AT INTERMEDIATE POINTS - 304
NOT TO SCALE

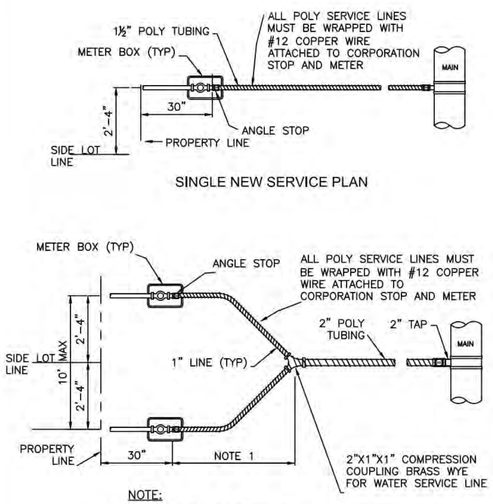
FTL



1. INSTALLATION OF 3/4" TO 2" ASSEMBLIES REQUIRE BALL VALVES WITH TEST PORTS. 3" AND LARGER REQUIRE RESILIENT WEDGE (R.W.) VALVES.
2. ALL PIPING BEFORE & AFTER BACKFLOW PREVENTION ASSEMBLIES SHALL BE EITHER CEMENT LINED DUCTILE IRON PIPE, COPPER OR BRASS FOR THE SMALLER ASSEMBLIES. THIS INCLUDES ALL ASSEMBLIES, IRRIGATION & FIRE LINE DEVICES. ALL PIPING AFTER THE ASSEMBLY SHALL MEET THE LOCAL PLUMBING/MECHANICAL CODES (LATEST EDITION) OF THE MUNICIPALITY.
3. ALL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA. IF USED FOR DUAL WATER & FIRE SYSTEM, THEN INSTALLATION OF 3" AND ABOVE REQUIRE RISING STEM O.S.&Y., RESILIENT WEDGE VALVES WITH TEST PORTS.
4. REFER TO CITY OF WEST PALM BEACH BACKFLOW PREVENTION ORDINANCE FOR FURTHER INFORMATION.
5. ASSEMBLY SHALL BE INSTALLED DIRECTLY AFTER THE METER ON PRIVATE PROPERTY OUTSIDE OF UTILITY EASEMENTS.
6. INSTALLATION MUST BE PRE-APPROVED BY PUBLIC UTILITIES CUSTOMER SERVICE REPRESENTATIVE.
7. ENGINEER OF RECORD MUST SUPPLY FLOW CALCULATION TO ESTABLISH ACCEPTABLE WATER VOLUME AND PRESSURE FROM THE WATER MAIN TO THE HOUSE OR BUSINESS. SUCH CALCULATIONS SHALL BE SIGNED AND SEALED BY A FLORIDA LICENSED ENGINEER.

KHA

WATER SERVICES - 3" AND LARGER REDUCED PRESSURE BLACK FLOW PRVENTER ASSEMBLY
NOT TO SCALE



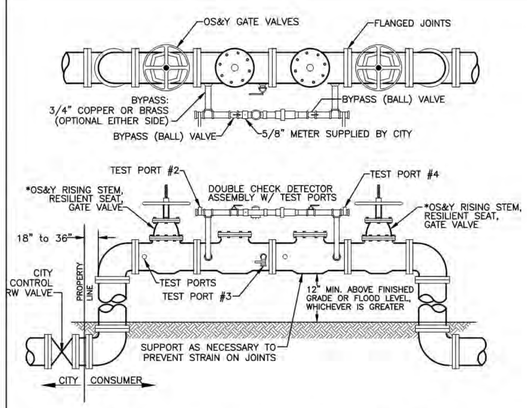
NOTE:

1. KEEP 1½" WYE AS CLOSE AS POSSIBLE TO METER BOX.

DOUBLE NEW SERVICE PLAN

TYPICAL WATER SERVICE - 301
NOT TO SCALE

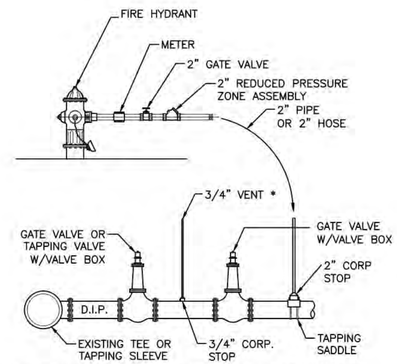
FTL



1. INSTALLATION OF 3/4" TO 2" ASSEMBLIES REQUIRE BALL VALVES WITH TEST PORTS. 3" AND LARGER REQUIRE RESILIENT WEDGE (R.W.) VALVES.
2. ALL PIPING PRIOR TO & AFTER BACKFLOW PREVENTION ASSEMBLIES SHALL BE EITHER CEMENT LINED DUCTILE IRON PIPE, COPPER OR BRASS FOR THE SMALLER ASSEMBLIES. THIS INCLUDES ALL ASSEMBLIES.
3. ALL PIPING AFTER THE ASSEMBLY SHALL MEET THE LATEST EDITION OF PLUMBING, FIRE LINE & MECHANICAL CODES OF THE MUNICIPALITY.
4. ELECTRONIC SWITCHES MAY BE REQUIRED ON THE O.S.&Y. VALVES. CHECK WITH LOCAL FIRE MARSHAL AND/OR MUNICIPAL BUILDING DEPARTMENT.
5. ALL BACK FLOW PREVENTION DEVICES MUST BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA.
6. DEVICE SHALL BE INSTALLED DIRECTLY AFTER THE PROPERTY LINE OUTSIDE OF UTILITY EASEMENTS. INSTALLATION MUST BE PRE-APPROVED BY PUBLIC UTILITIES CUSTOMER SERVICE REPRESENTATIVE.
7. ALL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA. IF USED FOR DUAL WATER & FIRE SYSTEM, THEN INSTALLATION OF 3" AND ABOVE REQUIRE RISING STEM O.S.&Y., RESILIENT WEDGE VALVES WITH TEST PORTS.
8. REFER TO CITY OF WEST PALM BEACH BACKFLOW PREVENTION ORDINANCE FOR FURTHER INFORMATION.
9. ENGINEER OF RECORD MUST SUPPLY FLOW CALCULATION TO ESTABLISH ACCEPTABLE WATER VOLUME AND PRESSURE FROM THE WATER MAIN TO THE HOUSE OR BUSINESS. SUCH CALCULATIONS SHALL BE SIGNED AND SEALED BY A FLORIDA LICENSED ENGINEER.

KHA

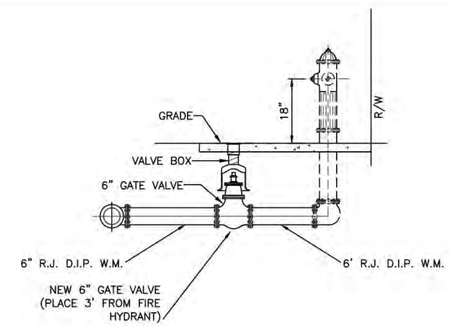
WATER SERVICES - DOUBLE DETECTOR ASSEMBLY AND METER INSTALLATION
NOT TO SCALE



* NOTE: AFTER TESTS REMOVE 3/4" TUBING AND 2" GALVANIZED PIPE AND INSTALL PLUGS ON CORPORATION STOPS.

FILLING CONNECTION - 305
NOT TO SCALE

FTL

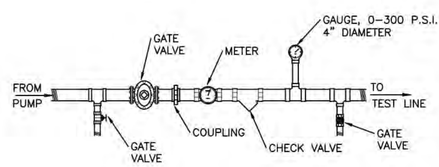


NOTES:

1. RECONNECT EXISTING FIRE HYDRANT TO NEW WATER MAIN.
2. KEEP VALVE AS CLOSE AS POSSIBLE TO THE HYDRANT.
3. WHEN FIRE HYDRANT "TEE" IS ON P.V.C. PIPE RUN, CONSTRUCT 1 LENGTH OF D.I.P. (R.J.) PIPE ON EACH SIDE OF FIRE HYDRANT "TEE".

RELOCATE OR CONNECT EXISTING FIRE HYDRANT - 308
NOT TO SCALE

FTL



NOTE:
PRESSURE TEST TO INCLUDE SERVICES TO ANGLE STOP.

PRESSURE TEST DETAIL - 306
NOT TO SCALE

FTL

FTL	CITY OF FORT LAUDERDALE STANDARD DETAIL
KHA	KIMLEY-HORN AND ASSOCIATES DETAIL

NOTE: DETAILS ARE INCLUDED FROM THE ENTITIES LISTED ABOVE AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL OBTAIN AND CONFORM WITH THE LATEST STANDARDS AND DETAILS.

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KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY DETAILS

SHEET NO. C6-4.01 X OF XX

DRAWING FILE 11900-MULTI-UDET

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C604 UTILITY DETAILS February 20, 2016 04:00:49pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-UTDT.dwg
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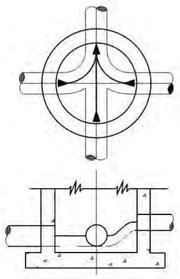
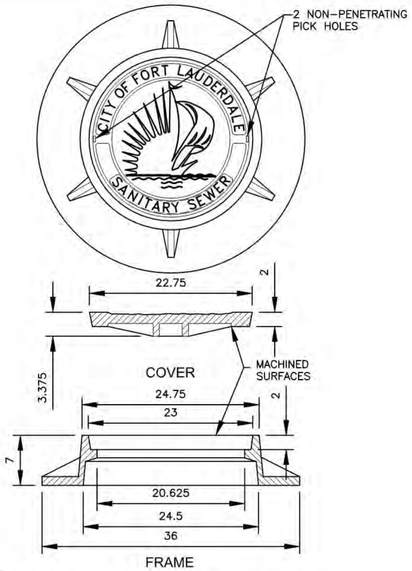


NOTES:

1. ALL INVERT CHANNELS ARE TO BE CONSTRUCTED FOR SMOOTH FLOW WITHOUT OBSTRUCTION.
2. PROPERLY SHAPED SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOWS.
3. SERVICE LATERALS SHALL NOT ENTER MANHOLES UNLESS SPECIFIED ON PLANS AND THEN MUST BE TREATED AS MAINS. (ELEVATIONS SHOWN, PRECAST HOLE, FLOW CHANNEL)
4. BRICK RUBBLE PERMITTED AS FLOW CHANNEL BUILDUP.
5. SIDEWALLS OF FLOW CHANNEL SHALL BE AT LEAST HALF OF PIPE HEIGHT AT ALL POINTS.
6. NO INSIDE DROP LARGER THAN 6" SHALL BE ALLOWED WITH 3 OR 4 INVERTS AND MANHOLES WITH A CHANGE OF DIRECTION OF FLOW OF MORE THAN 45 DEGREES.

INVERT FLOW CHANNELS - 202
NOT TO SCALE

FTL

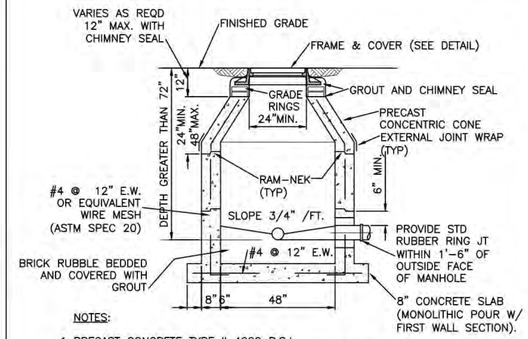


NOTES:

1. MATERIAL: FRAME AND COVER AS SPECIFIED.
2. ADDITIONAL GRADE RINGS MAY BE USED TO ELEVATE EXISTING MANHOLE FRAMES TO RESURFACED GRADE (MAX. 4" HEIGHT).
3. ALL DIMENSIONS ARE NOMINAL.
4. OPTIONAL: HINGED FRAME AND COVER AS SPECIFIED.

MANHOLE FRAME & COVER-PAVED AREAS - 200
NOT TO SCALE

FTL

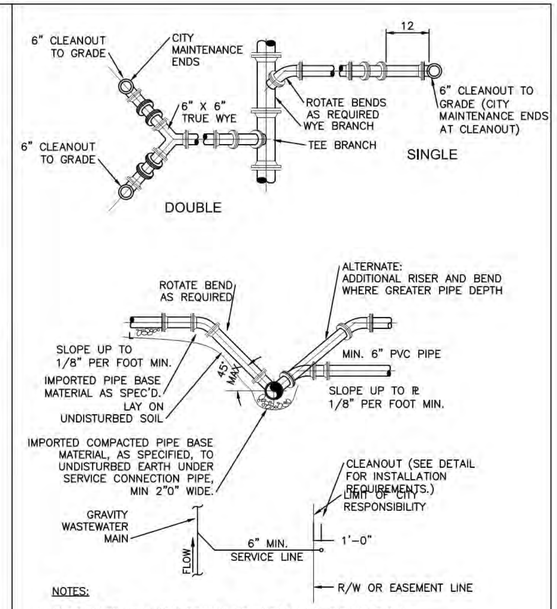


NOTES:

1. PRECAST CONCRETE TYPE II 4000 P.S.I.
2. "RAM-NEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH THE WIDTH AT LEAST 1/2 THE WALL THICKNESS).
3. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO
5. FLOW STREAM. (SEE DETAIL)
6. LIFT HOLES ARE PERMITTED.
7. ALL PIPE HOLES SHALL BE PRECAST OR CORE DRILLED.
   A. FOR PVC PIPE ENTERING MANHOLE WITH PRECAST HOLES USE THE APPROVED NON-ASBESTOS PVC-MANHOLE ADAPTER OR PRECAST FLEXIBLE MANHOLE SLEEVE FOR THE APPROPRIATE PIPE DIAMETER AND DIMENSION RATIO. THE ADAPTER SHALL NOT EXTEND MORE THAN 1" INTO THE MANHOLE. DOUBLE BANDING IS REQUIRED FOR FLEXIBLE MANHOLE SLEEVE.
   B. CONNECTION TO A MANHOLE WITH A CORE DRILLED HOLE SHALL BE MADE USING A 5' MIN. DUCTILE IRON PIPE SECTION (EPOXY LINED) OR THE APPROVED PVC-MANHOLE ADAPTER.
8. INSIDE DROPS SHALL NOT BE DESIGNED TO EXCEED 1.80 FEET AND NOT CONSTRUCTED TO EXCEED 2.0 FEET. MAX. 6" INSIDE DROP IS PERMITTED FOR MANHOLES WITH 3 OR MORE INVERTS AND MANHOLES WITH A CHANGE IN FLOW DIRECTION OF MORE THAN 45 DEGREES.
9. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH ASTM C-478, LATEST STANDARD.
10. MINIMUM 5 FEET IS REQUIRED BETWEEN OUTSIDE OF MANHOLE AND SERVICE WYE.
11. MANHOLES TO BE PAINTED INSIDE AND OUTSIDE WITH 2 COATS OF AN APPROVED PROTECTIVE COATING. (ONE COAT RED, ONE COAT BLACK) MIN. 8-10 MILS D.F.T. PER COAT.
12. MANHOLE SHALL BE SET PLUMB TO LINE AND GRADE.

STANDARD MANHOLE - 203
NOT TO SCALE

FTL



NOTES:

1. WASTEWATER MAIN WYE BRANCH TO MATCH MAIN PIPE MATERIAL.
2. NO 90° BENDS SHALL BE USED FOR WASTEWATER SERVICE AND CLEANOUT INSTALLATIONS.
3. SERVICE LATERALS SHALL TERMINATE AT 12" INSIDE THE PROPERTY LINE AT A DEPTH OF 3 FEET EXCEPT WHERE A DEEPER INVERT IS REQUIRED BY EXISTING BUILDING CONDITIONS.

TYPICAL WASTEWATER SERVICE CONNECTION - 208
NOT TO SCALE

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FTL — CITY OF FORT LAUDERDALE STANDARD DETAIL

KHA — KIMLEY-HORN AND ASSOCIATES DETAIL

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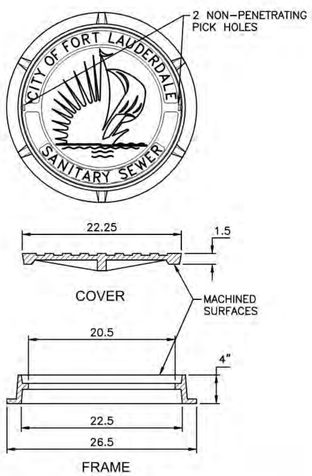
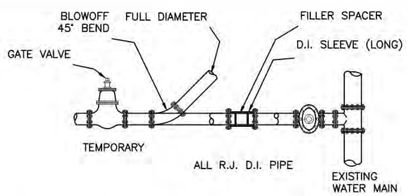


NOTES:

1. MATERIAL: FRAME AND COVER AS SPECIFIED.
2. ADDITIONAL GRADE RINGS MAY BE USED TO ELEVATE EXISTING MANHOLE FRAMES TO RESURFACED GRADE (MAX. 4" HEIGHT).
3. ALL DIMENSIONS ARE NOMINAL.
4. OPTIONAL: HINGED FRAME AND COVER AS SPECIFIED.

MANHOLE FRAME & COVER-UNPAVED AREAS - 201
NOT TO SCALE

FTL

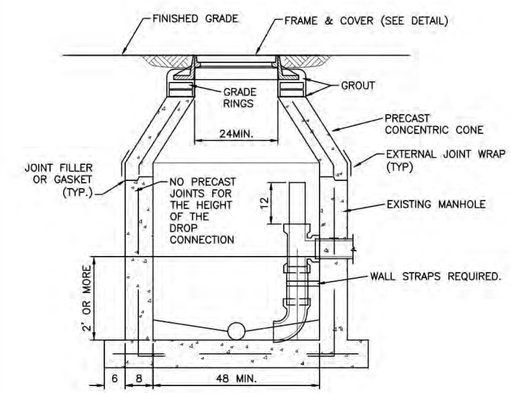


NOTES:

1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE SWABBED AND FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. TEMPORARY FITTINGS, PIPE, ETC. MAY BE NEEDED TO FACILITATE FLUSHING.
2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE CITY INSPECTOR OF SUCH INTENDED WATER USE.
5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED CITY PERSONNEL.
6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE CITY INSPECTOR.
7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
8. THERE MAY BE SPECIAL REQUIREMENTS FOR FLUSHING PIPE LARGER THAN 12" DIAMETER.

FLUSHING CONNECTION AND BLOW OFF DETAIL - 303
NOT TO SCALE

FTL



NOTES:

ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY.
INSIDE DROP CONNECTION TO BE USED ONLY FOR A SINGLE DROP CONNECTION TO AN EXISTING MANHOLE.
DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2.0 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL. DROP CONNECTIONS SHOULD NOT BE DESIGNED FOR LESS THAN A 2.4 FOOT DROP. SOLVENT TYPE JOINT PVC FITTINGS TO BE UTILIZED IN THE DROP ASSEMBLY ONLY.

INSIDE DROP CONNECTION EXISTING MANHOLE TYPE C -207
NOT TO SCALE

FTL

60% CD SUBMITTAL

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73962

KHA PROJ #: 040814003

DATE: 03/15/2016	SCALE: AS SHOWN
DESIGNED BY: JJ	CHECKED BY: JAW
DRAWN BY: JJ	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY DETAILS

SHEET NO. C6-4.02 X OF XX

DRAWING FILE 11900-MULTI-UDET

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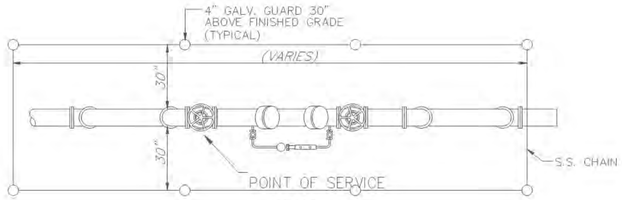
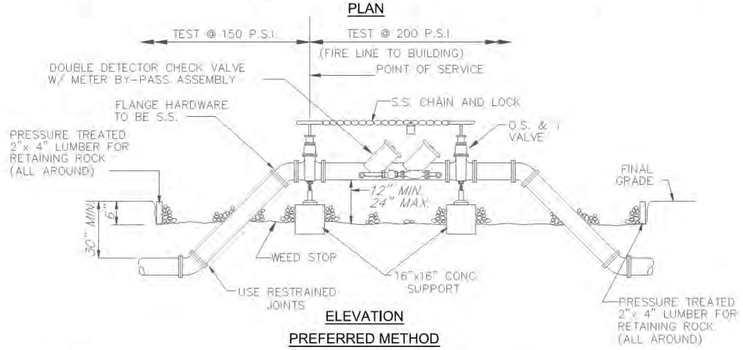


PLAN



ELEVATION

PREFERRED METHOD

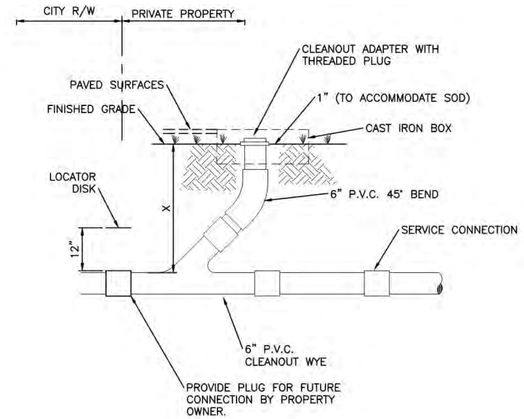
NOTES:

1. ALL PIPING SHALL BE D.I.P. CL 50/52 AS APPLICABLE TO MINIMUM STANDARDS.
2. ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
3. PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVENLY APART AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTORS DIRECTIONS. CHAIN SHALL BE LOOPED THROUGH EYELETS CAST IN CONCRETE TOP.
5. PIPING AND ASSEMBLY SHALL BE PAINTED WITH LINEAR POLYURETHANE SYSTEM.
6. USE 45° BENDS WHEN WORKING AREA IS NOT LIMITED.

NON-TRAFFIC BACKFLOW PREVENTION DOUBLE CHECK VALVE

NOT TO SCALE

KHA



NOTES:

1. PROVIDE APPROVED PLUG OR JOINT FOR DISSIMILAR GRAVITY SEWER PIPE FOR SERVICE CONNECTION.
2. CLEAN-OUT ASSEMBLY SHALL BE INSTALLED BY PROPERTY OWNER.
3. X=3'0" MIN. OR 4'0" MAX. FOR RESIDENTIAL SERVICE UNLESS OTHERWISE SHOWN.

TYPICAL CLEANOUT INSTALLATION - 209

NOT TO SCALE

FTL

FTL — CITY OF FORT LAUDERDALE STANDARD DETAIL

KHA — KIMLEY-HORN AND ASSOCIATES DETAIL

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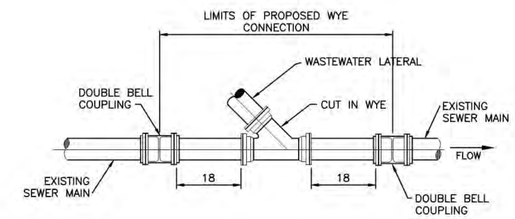


NEW LATERAL ON EXISTING GRAVITY WASTEWATER MAIN - 210

NOT TO SCALE

FTL

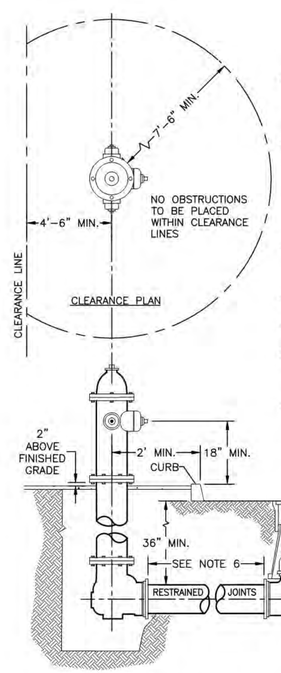
NOMINAL PIPE DIAMETER (INCHES)	PIPE LENGTH (IN FEET) TO BE RESTRAINED IN EACH DIRECTION FROM FITTING												
	HORZ. 11.25° BEND	HORZ. 22.5° BEND	HORZ. 45° BEND	HORZ. 60° BEND	HORZ. 90° BEND	VERT. 11.25° BEND	VERT. 22.5° BEND	VERT. 45° BEND	VERT. 60° BEND	VERT. 90° BEND	VERT. HORZ. 11.25° BEND	VERT. HORZ. 22.5° BEND	VERT. HORZ. 30° BEND	VERT. HORZ. 45° BEND	VERT. HORZ. 60° BEND	VERT. HORZ. 90° BEND	TEE (BRANCH)	DEAD END & VALVE
4	31	18	13	8	6	3	65	37	27	17	13	6	32	65
6	43	25	18	12	9	4	92	53	38	25	18	9	58	92
8	56	32	23	15	11	5	118	68	49	32	23	12	84	118
10	67	39	28	18	13	7	142	82	59	38	28	14	108	142
12	78	45	32	21	16	8	167	96	69	45	33	16	132	167
14	88	51	37	24	18	9	190	109	79	51	38	19	155	190
16	98	57	41	26	20	10	212	123	88	57	42	21	177	212
18	108	62	45	29	22	11	234	135	97	63	47	23	199	234
20	118	68	49	32	23	12	256	148	106	69	51	25	221	256
24	136	78	56	36	27	13	297	171	123	80	59	29	261	297
30	160	92	66	43	32	16	354	205	147	95	70	35	318	354
36	182	105	75	49	36	18	407	235	169	109	81	40	370	407
42	202	116	84	54	40	20	455	263	188	122	90	45	417	455
48	220	127	91	59	44	22	500	289	207	134	99	49	462	500
54	237	137	98	64	47	23	542	313	224	145	108	53	503	542
60	247	143	102	66	49	24	570	329	236	153	113	56	530	570
64	256	148	106	69	51	25	594	343	246	159	118	59	554	594

1. NO THRUST BLOCKS ALLOWED
2. CHART EXTRACTED FROM DIPRA MANUAL, "THRUST RESTRAINT DESIGN FOR D.I.P.", 3RD EDITION.

   USING THE FOLLOWING DESIGN CRITERIA:
   DESIGN PRESSURE = 150 PSI
   TRENCH TYPE = 3
   MINIMUM COVER REQUIRED = 3 FEET
   SOIL TYPE = SAND / SILT
   POLYWRAP REQUIRED = NO (MULTIPLY BY 1.50 FOR POLYWRAPPED PIPE)
3. TEE CALCULATIONS ARE BASED ON FULL OPENING TEE. CALCULATIONS MUST BE ADJUSTED IF RUN DIAMETER EXCEEDS TWICE THE BRANCH DIAMETER.
4. MINIMUM NUMBER OF JOINTS TO BE RESTRAINED SHALL BE MINIMUM LENGTH AS LISTED ABOVE PLUS ONE FULL LENGTH.
5. VALVES SHALL BE RESTRAINED AT EACH SIDE USING DEAD-END CRITERIA LISTED IN TABLE ABOVE.

PRESSURE PIPE - DESIGN TABLE FOR THRUST RESTRAINT

NOT TO SCALE



1. ALL HYDRANTS TO BE MANUFACTURED TO CITY OF WEST PALM BEACH SPECIFICATIONS, INCLUDING IRON WEATHER CAP, PER W.P.B. APPROVED PRODUCTS LIST.
2. BONNET SHALL BE PAINTED WITH REFLECTIVE COATING. ALL OTHER PARTS ABOVE BREAKWAY FLANGE SHALL BE PAINTED SILVER. ANY OTHER PARTS BELOW BREAKWAY FLANGE SHALL BE PAINTED BLACK. ALL PAINT MATERIALS TO BE AS SPECIFIED ON APPROVED MATERIALS LIST.
3. FOR PROJECTS WITHIN F.D.O.T. & PALM BEACH COUNTY R/W: HYDRANTS TO BE LOCATED IN DEDICATED EASEMENTS OUTSIDE OF R/W.
4. ALL JOINTS INCLUDING BELL AND SPIGOT SHALL BE RESTRAINED.
5. SEE "VALVE BOX SETTING" STANDARD FOR ADDITIONAL DETAILS.
6. IF DISTANCE BETWEEN FIRE HYDRANT AND ANCHOR TEE EXCEEDS 30 FT., ADD A SECOND VALVE 4 FT. FROM HYDRANT.
7. INSTALL A F.D.O.T. APPROVED BLUE R.P.M.(REFLECTIVE PAVEMENT MARKER) IN THE CENTER OF THE TRAVELING LANE, DIRECTLY IN FRONT OF HYDRANT.

KHA

PRESSURE PIPE FIRE HYDRANT INSTALLATION

NOT TO SCALE

EDSA, Inc.
1512 E. Broward Blvd. Suite 110
Fort Lauderdale, FL 33301
954.524.3330

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SEAL:

JASON A. WEBBER, P.E.
73962

KHA PROJ #: 040814003

DRAWN BY: JJ	DATE: 03/15/2016
DESIGNED BY: JJ	SCALE: AS SHOWN
CHECKED BY: JAW	FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

60% CD SUBMITTAL

PROJECT # P11900
LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY DETAILS

SHEET NO. C6-4.03 X OF XX

DRAWING FILE 11900-MULTI-UDET

Plotted By: Webber, Jason Sheet Set: LAS OLAS CORRIDOR IMPROVEMENTS Layout: C6-4.03 UTILITY DETAILS February 20, 2016 04:00:51pm K:\BCD_Roadway\040814003 - FTL Las Olas\CADD\PlanSheets\11900-MULTI-UTDT.dwg
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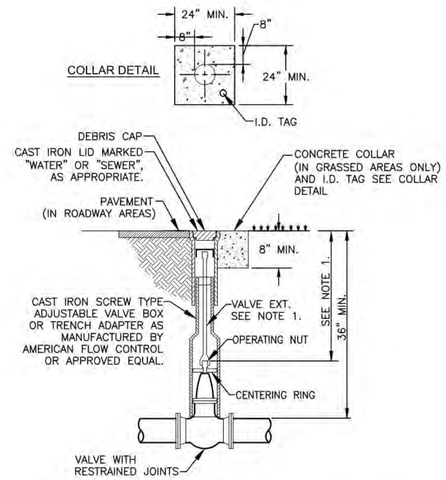
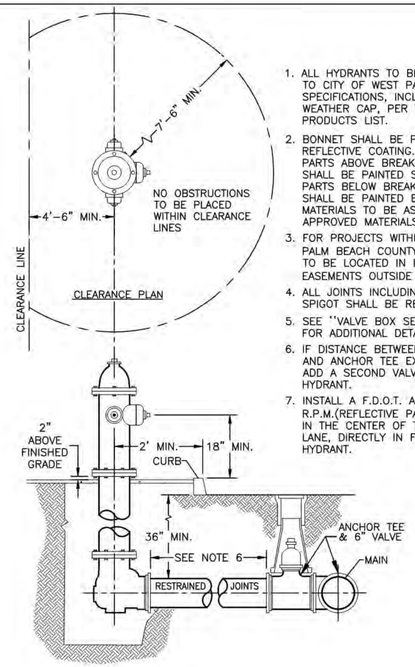


1. WHEN TOP OF OPERATING NUT IS DEEPER THAN 36", A HIGH STRENGTH STEEL EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT TO NOT MORE THAN 24" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS SHALL BE 316 STAINLESS STEEL. A STEEL CENTERING PLATE WELDED TO THE EXTENSION IS ALSO REQUIRED.
2. VALVE BOXES IN PAVEMENT SHALL HAVE LOCKING COVERS & LIDS MARKED "WATER" OR "SEWER", AS APPROPRIATE.
3. ALL VALVE BOXES SHALL BE PROVIDED WITH A DEBRIS CAP.
4. A PLUMB DUCTILE IRON PIPE OR C-900 PVC RISER SHALL BE USED IF DEPTH SO REQUIRES, WITH APPROVAL.

PRESSURE PIPE VALVE BOX SETTING
NOT TO SCALE

KHA



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PRESSURE PIPE FIRE HYDRANT INSTALLATION
NOT TO SCALE

FTL	CITY OF FORT LAUDERDALE STANDARD DETAIL
KHA	KIMLEY-HORN AND ASSOCIATES DETAIL

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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LAS OLAS CORRIDOR IMPROVEMENTS
FORT LAUDERDALE, FL

UTILITY DETAILS

SHEET NO. C6-4.04 X OF XX

DRAWING FILE 11900-MULTI-UDET

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