PROPOSED SITE PLAN MODIFICATIONS FOR

Walmart

NEIGHBORHOOD MARKET #4563-00
NWC SHERIDAN ST. AND SE 5TH AVE.
401 E. SHERIDAN STREET
DANIA BEACH, FL 33004
PCN: 514203 6000 10

RECEIVED
JUN 18 2015
Planning Department

PROFESSIONAL ENGINEER
CHRISTOPHER J. HOLLEN
LICENSE No. 74685
STATE OF FLORIDA

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

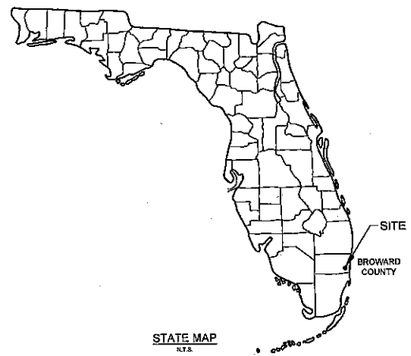
	UTILITY GOVERNING AGENCIES CONTACTS	CONTRACTOR RESPONSIBILITY	OTHERS RESPONSIBILITY	WALMART UTILITY CONTACT
TELEPHONE	AT&T 5801 W. SUNRISE BLVD. PLANTATION, FL 33322 CONTACT: EDUARDO IBARRA PHONE: (954) 476-2734	►COORDINATE CONSTRUCTION ACTIVITIES WITH TELEPHONE COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT ►PROVIDE AND INSTALL 2-4" SCHEDULE 40 PVC CONDUITS WITH PULL ROPES, INCLUDING ALL TRENCHING AND BACKFILLING, FROM THE RISER POLE UP TO THE BUILDING ►PROVIDE AND INSTALL PULL BOXES AS PER TELEPHONE COMPANY REQUIREMENTS	►TELEPHONE COMPANY WILL PROVIDE AND INSTALL ALL TELEPHONE CABLES FROM THE POINT OF CONNECTION UP TO THE BUILDING ► PRESENT RESPONSIBLE PARTIES ►ANY RELOCATION OF EXISTING WILL BE DONE BY AT&T. ►PRESENT RESPONSIBLE PARTIES	►TELECOM DEPT. (479 277-9587
ELECTRIC	FPL 4000 DAVIE RD. EXT. HOLLYWOOD, FL. 33024 CONTACT: DAVID GILL PHONE: (954) 442-6361	►COORDINATE CONSTRUCTION ACTIVITIES WITH ELECTRIC COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT ►PROVIDE AND INSTALL 2-4" SCHEDULE 40 PVC CONDUITS WITH PULL ROPES, INCLUDING TRENCHING AND BACKFILLING, FOR THE UNDERGROUND PORTIONS OF THE PRIMARY FROM THE RISER POLE UP TO THE TRANSFORMER. SCHEDULE 80 PVC CONDUITS SHALL BE USED ON THE RISER POLE AND RIGID METAL, LONG RADIUS, ELBOWS SHALL BE USED WHERE THE UNDERGROUND PORTION MEETS THE RISER POLE AND TRANSFORMER ►CONSTRUCT TRANSFORMER PAD AS PER FPL'S SPECIFICATIONS ►PROVIDE AND INSTALL ALL SECONDARY SERVICE AND MATERIALS	►ELECTRIC COMPANY WILL PROVIDE AND INSTALL ALL MATERIALS NEEDED TO ESTABLISH PRIMARY SERVICE FROM POINT OF CONNECTION AT THE EXISTING LINE UP TO THE TRANSFORMER ►PRESENT RESPONSIBLE PARTIES ►ELECTRIC COMPANY WILL PROVIDE AND INSTALL PRIMARY CABLE FOR ALL UNDERGROUND LINES UP TO THE TRANSFORMER ►PRESENT RESPONSIBLE PARTIES ►ANY RELOCATION OF EXISTING LINES OR POLES WILL BE DONE BY FPL.	►ENERGY MANAGMENT DEPT. (479-204-0452)
SANITARY SEWER	CITY OF DANIA BEACH PUBLIC SERVICES 1201 STIRLING ROAD DANIA BEACH, FL 33004 PHONE: (954) 924-3741	►PROVIDE AND INSTALL SANITARY SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION ►ALL PUBLIC AND PRIVATE SANITARY SEWER LINES SHALL BE PVC AND RATED SDR 26 ►COORDINATE REQUIRED INSPECTION SERVICES WITH ENGINEER OF RECORD AND CITY OF DANIA BEACH DEPARTMENT OF PUBLIC WORKS. SEE UTILITY PLAN FOR REQUIREMENTS.		►ENERGY MANAGMENT DEPT. (479-204-0452)
WATER	CITY OF DANIA BEACH PUBLIC SERVICES 1201 STIRLING ROAD DANIA BEACH, FL 33004 PHONE: (954) 924-3747	►PROVIDE AND INSTALL ALL WATER MAINS AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION ►ALL PUBLIC AND PRIVATE WATER MAINS SHALL BE C-900 PVC, DR14 CLASS 200 ►ALL PORTIONS OF THE FIRE PROTECTION WATER SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR ►ALL PORTIONS OF OTHER NON FIRE PROTECTION RELATED LINES MAY BE INSTALLED BY THE PLUMBING CONTRACTOR ►COORDINATE REQUIRED INSPECTION SERVICES WITH ENGINEER OF RECORD AND CITY OF DANIA BEACH DEPARTMENT OF PUBLIC WORKS. SEE UTILITY PLAN FOR REQUIREMENTS.	► SETTING OF METER WILL BE BY THE CITY OF DANIA BEACH ►PRESENT RESPONSIBLE PARTIES ►ANY RELOCATION OF EXISTING WILL BE DONE BY CITY OF DANIA BEACH PUBLIC WORKS. ►PRESENT RESPONSIBLE PARTIES	►ENERGY MANAGMENT DEPT. (479-204-0452)
STORM SEWER	BROWARD COUNTY EPD 1 N. UNIVERSITY DR, SUITE 200 PLANTATION, FL 33324 CONTACT: ASHLEY RESTA PHONE: 954-519-1483	►PROVIDE AND INSTALL ALL STORM SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION ►REFER TO GRADING PLAN FOR INFORMATION ON ALLOWABLE STORM SEWER MATERIALS		►ENERGY MANAGMENT DEPT. (479-204-0452)

WORK HOURS:
THE OPERATING OF ANY EQUIPMENT USED IN CONSTRUCTION WITHIN 50 METERS OF ANY RESIDENTIAL AREA BETWEEN THE HOURS OF 9 P.M. AND 7 A.M. ON WEEKDAYS AND SATURDAY, AND 9 P.M. TO 8 A.M. ON SUNDAY AND HOLIDAYS EXCEPT FOR EMERGENCY WORK. - CITY CODE, ARTICLE IV - SECTION 17-68.

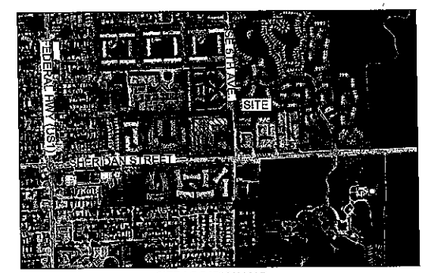
THIS MATRIX HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTENANCES, TRENCHING AND BACKFILL, AND OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

MEDIAN AGE: 42

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FLORIDA 32960
PHONE: (772) 794-4100



STATE MAP
N.T.S.



SITE LOCATION MAP
N.T.S.

PROJECT DESIGN TEAM

CIVIL
CHRISTOPHER J. HOLLEN, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FLORIDA 32960
PHONE: (772) 794-4067

GEOTECHNICAL ENGINEER
JOSE GOMEZ, P.E.
ECS - FLORIDA, LLC.
2000 AVENUE P., SUITE 3
WEST PALM BEACH, FL 33404
PHONE: (561) 640-3667

SURVEY
JOHN T. DOOGAN
AVIROM & ASSOCIATES, INC.
50 SW 2ND AVENUE
BOCA RATON, FL 33432
PHONE: (561) 395-2594

ENVIRONMENTAL
LUKE DAWS
KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST
SUITE 2350
JACKSONVILLE, FL 32258

LANDSCAPE ARCHITECT
DAVID SIMS, RLA
KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FLORIDA 32960
PHONE: (772) 794-4100

BUILDING ARCH.
PABLO SALAZAR
CUHACI & PETERSON ARCHITECTS
1925 PROSPECT AVE.
ORLANDO, FL 32814
407-661-9100

ADDITIONAL GOVERNING AGENCY CONTACTS:

CITY ENGINEERING
CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT
100 W. DANIA BEACH BLVD.
DANIA BEACH, FL 33004
(954) 924-6600

BUILDING OFFICIAL
CITY OF DANIA BEACH
BUILDING DEPARTMENT - CITY OFFICIAL
100 W. DANIA BEACH BLVD.
DANIA BEACH, FL 33004
(954) 924-6800
CONTACT: JACK FISHER

CITY PLANNING/ZONING
CITY OF DANIA BEACH
PLANNING AND ZONING DEPARTMENT
100 W. DANIA BEACH BLVD.
DANIA BEACH, FL 33004
(954) 924-6800
CONTACT:MARK LAFERRIER

FIRE CHIEF
BROWARD COUNTY FIRE DEPT. - STATION 1
116 W. DANIA BEACH BLVD
DANIA BEACH, FL. 33004
(954) 924-6815
CONTACT: MICHAEL CASSANO

STORMWATER
BROWARD COUNTY EPD
1 N. UNIVERSITY DRIVE
PLANTATION, FL 33301
PHONE: (954) 519-1243
CONTACT: ASHLEY RESTA

PUBLIC WORKS
CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT
100 W. DANIA BEACH BLVD.
DANIA BEACH, FL 33004
(954) 924-3740
CONTACT: DOMINIC ORLANDO, P.E.

TRANSPORTATION - FDOT
DISTRICT 4
3400 WEST COMMERCIAL BLVD
FT. LAUDERDALE, FL 33309
(954) 777-4377
CONTACT: STAN WILLIAMS

SHEET INDEX

Sheet Number	Sheet Title
6010	COVER SHEET
S-1	ALTA SURVEY
6115	SOIL MANAGEMENT PLAN
6150	ESCP NOTES
6151	ESCP SEQUENCE AND LIMITS OF WORK
6152	ESCP PHASE I SITE MAP
6153	ESCP PHASE II SITE MAP
6154	ESCP DETAILS
6155	ESCP DETAILS
6156	ESCP PERFORMANCE STANDARDS
6180	DEWATERING PLAN
6200	DEMOLITION PLAN
6220	SITE PLAN
6221	VEHICLE CIRCULATION SIGNING AND MARKING PLAN
6250	GRADING AND DRAINAGE PLAN
6280	UTILITY PLAN
6310	SITE DETAILS
6320	GRADING AND DRAINAGE DETAILS
6321	GRADING AND DRAINAGE DETAILS
6340	UTILITY DETAILS
6341	UTILITY DETAILS
6342	FIRE UTILITY DETAILS
6500	LANDSCAPE PLAN
6510	LANDSCAPE DETAILS

OWNER/ LESSOR :
DDRM SHERIDAN SQUARE, LLC
401 E. SHERIDAN ST.
DANIA BEACH, FL 33004

ALERT TO CONTRACTOR
1. THE SITEWORK FOR THE WALMART PORTION OF THIS PROJECT SHALL MEET OR EXCEED THE "SITE SPECIFIC SPECIFICATIONS."
2. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO CONTRACT COMPLETION AND THE FINAL CONNECTION OF SERVICES.

DEVELOPER/ LESSEE :
WAL-MART STORES EAST, LP
2001 S.E. 10th STREET, SWDC
BENTONVILLE, AR 72716-0550
PHONE: (479) 273-4000

Kimley»Horn
© 2015 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA: 00000696

DESIGN DIRECTOR: CHRISTOPHER J. HOLLEN, P.E.
FL LICENSE NUMBER 74685
DATE:
SCALE AS NOTED
DESIGNED BY AAS
DRAWN BY AAS
CHECKED BY CJH

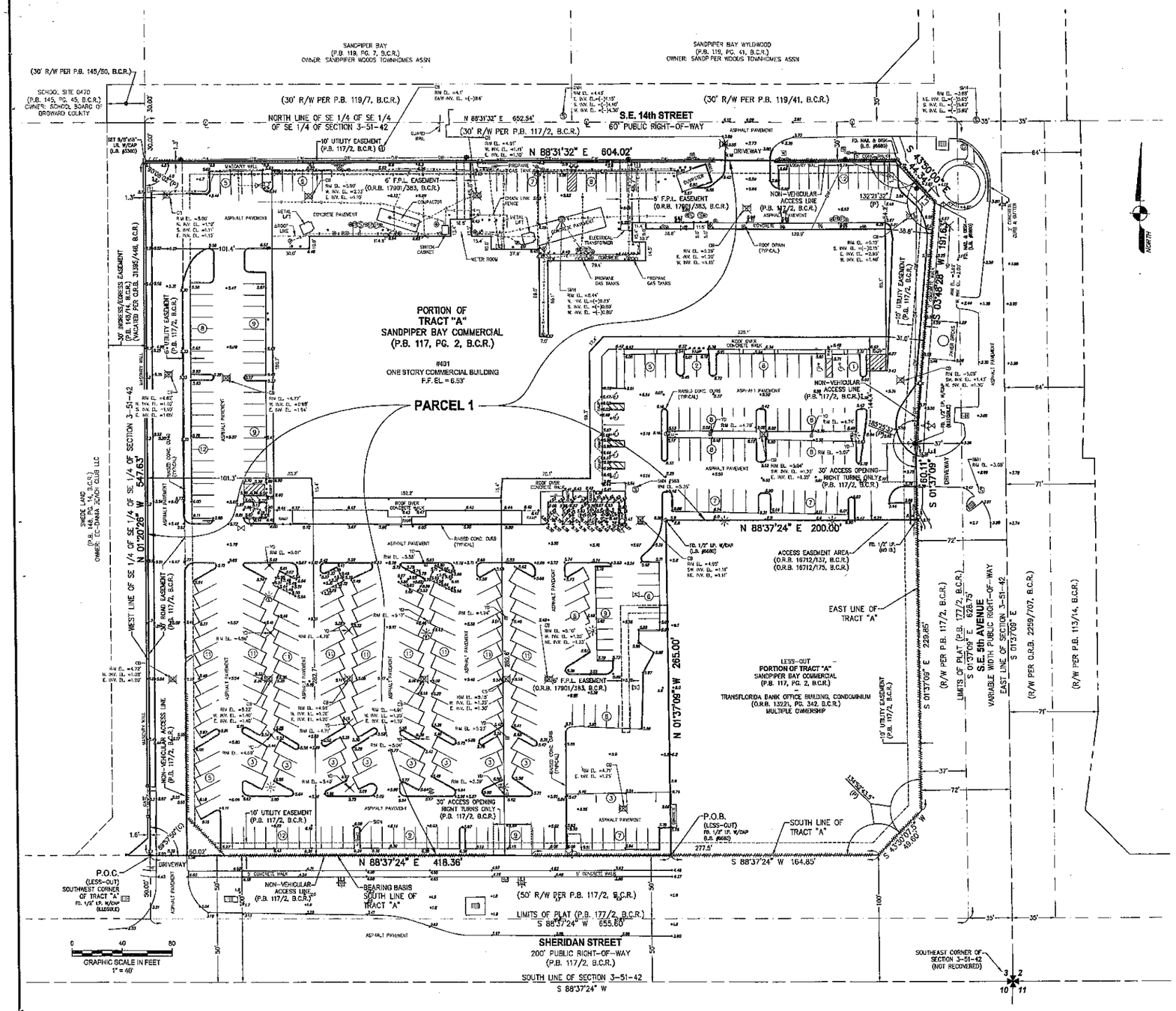
COVER SHEET

Walmart STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6010

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ALTA / ACSM LAND TITLE SURVEY

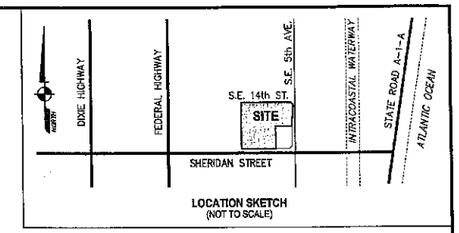


SYMBOL LEGEND:

- BACKFLOW PREVENTOR VALVE
- BOLLARD
- CATCH BASIN
- DISABLED PARKING SPACE
- DOUBLE DETECTOR CHECK VALVE
- ELECTRIC SERVICE BOX
- FIRE HYDRANT
- GREASE TRAP
- GUY ANCHOR
- IRRIGATION CONTROL BOX
- IRRIGATION CONTROL VALVE
- METAL LIGHT POLE
- MONITORING WELL
- OVERHEAD WIRES
- ROOF DRAIN
- SANITARY CLEANOUT
- SANITARY MANHOLE
- SANITARY VALVE
- SIGN
- STANDARD PARKING SPACE
- WATER METER
- WATER VALVE
- WOOD LIGHT POLE
- WOOD UTILITY POLE
- YARD DRAIN
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND DRAINGE LINE
- UNDERGROUND GAS LINE
- UNDERGROUND SANITARY LINE
- UNDERGROUND UNKNOWN LINE
- UNDERGROUND WATER LINE
- NON-VEHICULAR ACCESS LINE (P.B. 117, PG. 2, B.C.R.)
- 2.00 TYPICAL ELEVATIONS
- 2.0

EXISTING PARKING DATA:

STANDARD SPACES:	335
DISABLED SPACES:	10
TOTAL SPACES:	345



LOCATION SKETCH
(NOT TO SCALE)

SUMMARY TABLE FOR:
SCHEDULE B - SECTION 2 EXCEPTIONS
TITLE COMMITMENT NO. 20140309 (SEE SURVEYOR'S REPORT #2)

EXCEPTION NUMBER AND RECORDING INFORMATION		AFFECTS SUBJECT PROPERTY	AFFECTED AREA
No. 5	P.B. 117/2	Yes	As shown
No. 7	O.R.B. 16712/137	Yes	Access Easement (as shown)
No. 8	O.R.B. 16712/175	Yes	Resolution of Access Easement
No. 9	O.R.B. 18712/191	Yes	Agreement (not plotable)
No. 10	O.R.B. 17901/383	Yes	F.P.L. Easement (as shown)
No. 11	O.R.B. 30325/1720	Yes	Telephone Space Lease (not plotable)
No. 12	O.R.B. 31395/446	No	Vacated Easement (west of property line)
No. 13	O.R.B. 34145/1891	Yes	Wetlands Ordinance (not plotable)
No. 15	O.R.B.		
No. 18	O.R.B. 44267/1602	Yes	Mortgage (not plotable)
	O.R.B. 44718/1868	Yes	Mortgage (not plotable)
	O.R.B. 46722/963	Yes	Mortgage (not plotable)
No. 19	O.R.B. 44283/1	Yes	Financing Statement (not plotable)
	O.R.B. 44718/1875	Yes	Financing Statement (not plotable)
	O.R.B. 46722/966	Yes	Amendment (not plotable)
	O.R.B. 48752/521	Yes	Amendment (not plotable)

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. The property shown hereon is subject to agreements, covenants, easements, restrictions and other matters contained in the Title Commitment issued by Stewart Title Guaranty Company (Chicago), Title Commitment No. 20140309, effective date November 11, 2014 at 8:00 AM, as prepared by Francine Wholum and Stephanie Natolino. Where applicable, these instruments are shown on the survey (see SUMMARY TABLE). Avirom & Associates, Inc. did not research the public records for easements, rights-of-way, ownership or other instruments of record.
3. The land description shown hereon is in accord with the Title Commitment.
4. The underground utilities shown have been located from aboveground paint markings found during the field survey as marked by other agents. 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.
5. Elevations indicated hereon are in feet and decimals referenced to the North American Vertical Datum of 1988 (NAVD 88).
6. Benchmark Description: Broward County Engineering Division No. 1894, Found Brass Disc Stamped "X234 1955", Elevation 13.038 (NGVD 29), Elevation 11.438 (NAVD 88).
7. Bearings shown hereon are relative to the plat, based on the south line of Tract "A", having a bearing of N 88°37'24" E.
8. The entire property described hereon lies within Flood Zones X and AE (EL 5), as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel No. 120034 0567 H, dated August 18, 2014 (North American Vertical Datum of 1988).
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. This map is intended to be displayed at a scale of 1:480 (1"=40').
11. 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'.
12. Site Address: 401 E. Sheridan Street, Dania Beach, FL 33004
13. Adjacent property owner information shown hereon was obtained from the Broward County Property Appraiser's website.
14. Abbreviation Legend: ACSM = American Congress on Surveying and Mapping; ALTA = American Land Title Association; B.C.R. = Broward County Records; C = Calculated; CB = Catch Basin; ℄ = Centerline; CONC. = Concrete; EL. = Elevation; F.B. = Field Book; FD. = Found; F.F. = Finished Floor; F.P.L. = Florida Power and Light Company; ID. = Identification; I.P. = Iron Pipe; I.R. = Iron Rod; L.B. = Licensed Business; Ms = Measured; NSPS = National Society of Professional Surveyors; O.R.B. = Official Records Book; OW = Overhead Wires; P = Per Record Plat; P.B. = Plat Book; PG. = Page; P.L.S. = Professional Land Surveyor; P.O.B. = Point of Beginning; P.O.C. = Point of Commencement; R/W = Right-of-Way; W/CAP = With Surveyors Cap.; YD = Yard Drain; SMH = Sanitary Manhole

LAND DESCRIPTION:

PARCEL 1:

Tract A, SANDPIPER BAY COMMERCIAL, according to the plat thereof recorded in Plat Book 117, Page 2, Public Records of Broward County, Florida, LESS that portion described as follows:

COMMENCE at the Southwest corner of said Tract A; thence on an assumed bearing of North 88 degrees 37 minutes 24 seconds East along the South boundary of said Tract A, a distance of 418.36 feet to the Point of Beginning; thence North 01 degrees 37 minutes 09 seconds West a distance of 265.00 feet; thence North 88 degrees 37 minutes 24 seconds East a distance of 200.00 feet to the intersection with the said Easterly boundary of Tract A; thence South 01 degrees 37 minutes 09 seconds East along said Easterly boundary a distance of 229.85 feet to an angle point on the boundary of Tract A; thence South 43 degrees 30 minutes 07.5 seconds West and along said boundary a distance of 49.60 feet to the South boundary of Tract A; thence South 88 degrees 37 minutes 24 seconds West along said South boundary a distance of 164.85 feet to the POINT OF BEGINNING.

ALSO DESCRIBED AS:

Tract A of SANDPIPER BAY COMMERCIAL, according to the plat thereof recorded in Plat Book 117, Page 2, Public Records of Broward County, Florida, LESS that portion described as TRANSFLORIDAS BANK OFFICE BUILDING, a Condominium, according to the Declaration thereof, recorded in Official Records Book 13221, Page 342, Public Records of Broward County, Florida.

Said lands lying and situate in the City of Dania Beach, Broward County, Florida, containing 287,059 square feet (6.5900 acres), more or less.

CERTIFICATION:

THIS IS TO CERTIFY that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS. The field work was completed on November 26, 2014.

Date of Plat or Map: 3/20/2015

JOHN T. DOOGAN, P.L.S.
Florida Registration No. 4409
AVIROM & ASSOCIATES, INC.
L.B. No. 3300
EMAIL: john@avironsurvey.com

AVIROM & ASSOCIATES, INC.
SURVEYING & MAPPING
50 S.W. 2ND AVENUE, SUITE 102, BOCA RATON, FLORIDA 33432
TEL. (561) 392-2594, FAX (561) 394-7125
www.AVIROM-SURVEY.com

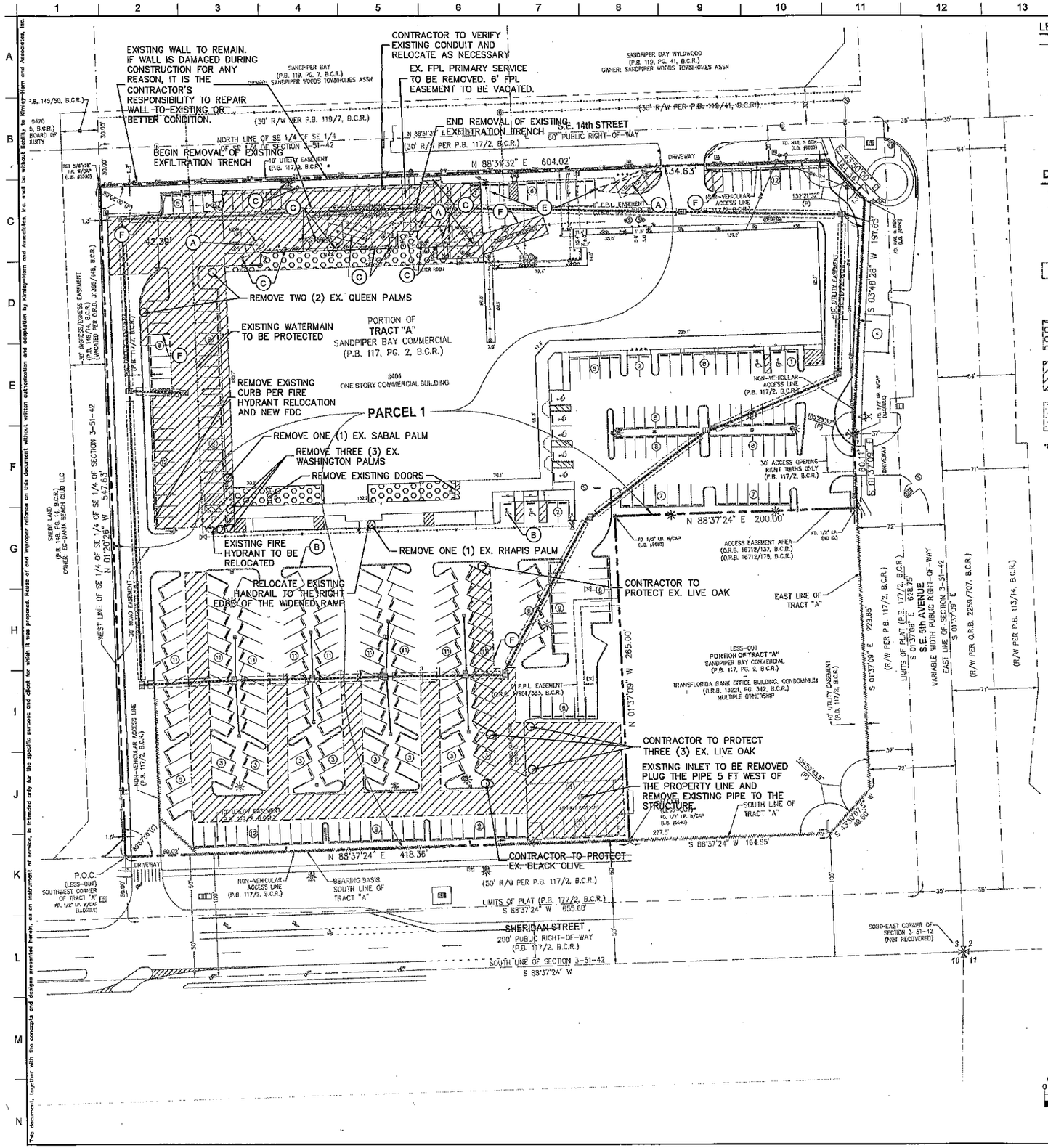
©2014 AVIROM & ASSOCIATES, INC. all rights reserved. This sketch is the property of AVIROM & ASSOCIATES, INC. and should not be reproduced or copied without written permission.

REVISIONS	DATE	F.B./PG.	BY	CKD
ADDED TITLE AND EXCEPTS	3/23/2015	1694/41 & 1735/73	RRS	J.T.D.

REVISIONS	DATE	F.B./PG.	BY	CKD

ALTA / ACSM LAND TITLE SURVEY
A PORTION OF TRACT 'A'
SANDPIPER BAY COMMERCIAL
(P.B. 117, PG. 2, B.C.R.)
SECTION 3, TOWNSHIP 51 SOUTH, RANGE 42 EAST
DANIA BEACH
BROWARD COUNTY, FLORIDA

JOB #:	9786
SCALE:	1" = 40'
DATE:	11/26/2014
BY:	S.A.M.
CHECKED:	J.T.D.
F.B. 1680	PG. 69 - 75
SHEET 1	OF 1



LEGEND

PROPERTY LINE

DEMOLITION LEGEND

- (A) EXISTING TO BE REMOVED
- (B) EXISTING TO REMAIN
- (C) EXISTING UTILITIES TO BE REMOVED
- (D) NOT APPLICABLE
- (E) REMOVE EXISTING PAVEMENT STRIPING
- (F) LIMITS OF SAWCUT AND PAVEMENT REMOVAL
- BUILDING AREA TO BE REMOVED (REFER TO ARCH PLANS FOR ADDITIONAL INFORMATION)
- PAVEMENT, CURB AND LANDSCAPE REMOVAL
- FULL DEPTH ASPHALT REPAIR

*SEE SITE PLAN FOR OVERLAY

DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, PLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING CENTER'S TENANT SPACES AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER AND COORDINATION THROUGH THE STORE MANAGER OR OUTLOT USERS.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
6. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
7. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
8. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
9. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CONSTRUCTION MANAGER.
10. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AND TENANTS AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
11. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
12. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, CART CORRAL, LIGHTING AND/OR STORM INLET STRUCTURES, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
13. CONTRACTOR MAY LIMIT SAWCUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
14. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE/PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERRUPTIONS WITH THE STORE MANAGER TO MINIMIZE DISTURBANCE AND INCONVENIENCE TO STORE OPERATION AND THE CUSTOMERS.
15. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY OF DANIA BEACH UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE STORE AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
18. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
17. CONTRACTOR MUST COORDINATE WITH CONSTRUCTION MANAGER PRIOR TO ANY CONSTRUCTION TO ESTABLISH CUSTOMER ACCESS AND TRAFFIC FLOW DURING ALL PHASES.
18. REFERENCE PHASING PLANS AND PAVING PLANS FOR SEQUENCING.
19. ALL EXISTING FEATURES NOT SPECIFICALLY CALLED OUT TO BE DEMOLISHED SHALL BE PROTECTED.

STATE OF FLORIDA PROFESSIONAL ENGINEER CHRISTOPHER J. HOLLEN LICENSE No. 74685

ALERT TO CONTRACTOR:

PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEC AND WALMART OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEC AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

GRAPHIC SCALE IN FEET 0 20 40 80

811 Know what's below. Call before you dig.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.
2. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

No.	REVISIONS	DATE

Kimley»Horn
© 2015 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PH: 561-845-0665 FAX: 561-845-1062
WWW.KIMLEY-HORN.COM CA 00000696

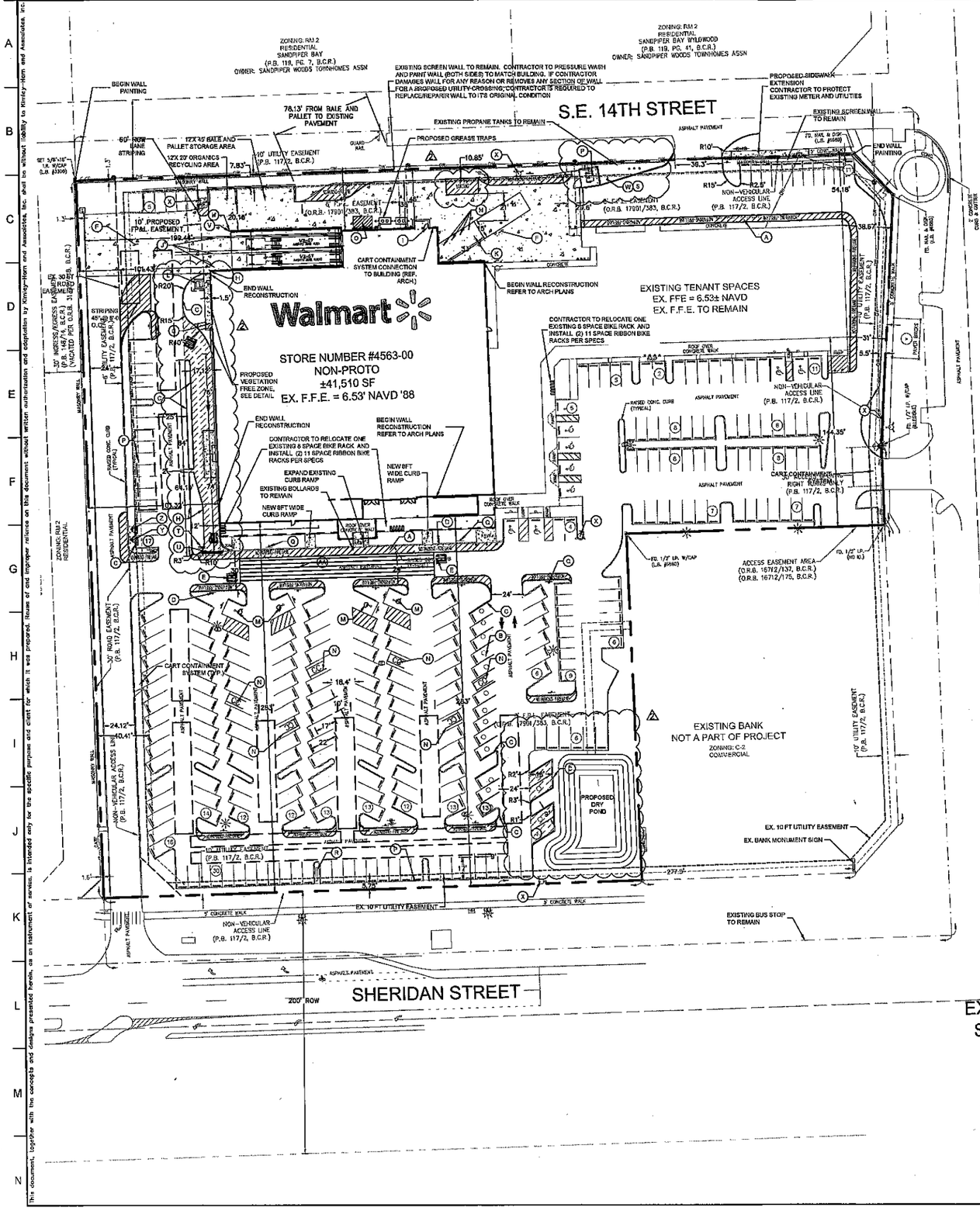
SCALE NOTED
DESIGNED BY DFD
DRAWN BY DFD
CHECKED BY CJH
DESIGN ENGINEER CHRISTOPHER J. HOLLEN, P.E.
FL LICENSE NUMBER 74685
DATE JUN 17 2015

DEMOLITION PLAN

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6200

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SITE DATA

LOCATION:	SECTION 2, TOWNSHIP 51 S, RANGE 42 E
ADDRESS:	401 E. SHERIDAN ST. AND 5TH AVE. DANIA BEACH, FL 33004
ZONING:	C-2 (COMMERCIAL)
LAND USE:	COMMERCIAL
FLOOD ZONE:	AE - ELEVATION 5.0' NAVD 88 AND FLOOD ZONE X

PROJECT SUMMARY

	REQUIRED	EXISTING	PROPOSED
	PERMITTED BY CODE	SITE	SITE
ACREAGE	N/A	6.59 AC.	6.59 AC.
IMPERVIOUS AREA	75% MAX	5.59 AC. (84.8%)	5.53 AC. (83.9%)
PERVIOUS AREA	25% MIN	1.00 AC. (15.2%)	1.06 AC. (16.1%)
BUILDING SQUARE FOOTAGE	N/A	68,370 SF	68,370 SF
ADDED OR REMOVED BUILDING SQUARE FOOTAGE	N/A	REMOVE FROM EXISTING 3,725 SF	ADDED TO EXISTING 3,725 SF
LOT COVERAGE BY ROOFED STRUCTURES	70% MAX	23.8% SF	23.8%
MINIMUM LOT AREA	4,000 SF	287,080 SF	287,080 SF
MINIMUM LOT DEPTH	90'	548.1'	548.1'
MINIMUM LOT WIDTH	30'	611.4'	611.4'
YARD SETBACKS	FRONT = 10'	282.6'	282.6'
	REAR = 10'	45.8'	47'
	SIDE (5TH AVE.) = 10'	31'	31'
	SIDE = 10'	101.3'	101.3'
BUILDING HEIGHT	2 STORIES 35' MAX 3 STORIES 40' MAX	23'	23'
BUILDING USE	N/A	COMMERCIAL RETAIL CENTER	COMMERCIAL RETAIL CENTER

SITE PARKING

EXISTING SHOPPING CENTER SQUARE FOOTAGE

RETAIL	61,065 SF
RESTAURANT	7,305 SF
TOTAL PROPOSED	68,370 SF

CODE: SHOPPING CENTER
ONE (1) PER 250 SF INCLUDES UP TO 10% OF SF USES WITH GREATER PARKING REQUIREMENTS THAN RETAIL. ADDITIONAL SF ABOVE 10% FOR SUCH USES CALCULATED SEPARATELY.
*CSA = CUSTOMER SERVICE AREA

REQUIRED PARKING CALCULATIONS

RETAIL		
61,065 SF		PARKED AT 1/250 SF = 245 SPACES
RESTAURANT		
69,370 SF X 10%	= 6,937 SF	PARKED AT 1/250 SF = 28 SPACES
7,305 SF - 6,937 SF	= 468 SF	
468 SF X 70% (ASSUMED *CSA)=	328 CSA	PARKED AT 1/40 CSA = 9 SPACES
RETAIL + RESTAURANT = TOTAL REQUIRED FOR SHOPPING CENTER		= 282 SPACES

TOTAL PARKING	
EXISTING:	345 SPACES (5.04/1,000SF)
REQUIRED:	282 SPACES (4.12/1,000SF)
PROVIDED:	255 SPACES (4.17/1,000SF)
REMOVED SPACES:	50 SPACES
CART CORRALS:	6 CORRALS
BICYCLE PARKING:	30 SPACES

* CODE SECTION 265-50, SCHEDULE OF MINIMUM OFF-STREET PARKING REQUIREMENTS - COMMERCIAL USE 554

TOTAL LOADING	
EXISTING:	2 SPACES
REQUIRED:	3 SPACES
PROVIDED:	3 SPACES

SITE NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY OF DANIA BEACH REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. SEE 02900 SPECIFICATION.
4. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
5. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
7. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY A LAND SURVEYOR.
8. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE SITE SPECIFIC SPECIFICATIONS".
9. REFER TO ARCH. PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
10. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

GENERAL NOTES

1. EXISTING SITE DATA BASED ON PLAN DATA PROVIDED BY OWNER AND PREPARED BY CAMERO & ASSOCIATES, INC. JOB #89-100
2. IT IS ASSUMED THAT EXISTING MONUMENT SIGN LIGHTING AND SHOPPING CENTER IRRIGATION PUMP STATION AND CONTROLLER AND SHOPPING CENTER LIGHT POLES ARE POWERED FROM THE SHOPPING CENTER OWNER'S HOUSE METER.
3. PROPOSED FIRE LANE STRIPING AND SIGNAGE TO BE INSTALLED PER THE CITY OF DANIA BEACH/MUTCD STANDARDS.
4. LIGHTING LEVELS WILL NOT EXCEED 0.5 FOOT-CANDLES ON ALL PROPERTY LINES.
5. ALL MECHANICAL EQUIPMENT WILL BE SCREENED FROM VIEW.

WATER, SANITARY SEWER, AND WASTE DEMAND

PROTOTYPE & SIZES	PROTOTYPE FIXTURE UNITS	DOMESTIC WATER INSTANTANEOUS PEAK FLOW (GPM)	AVERAGE SEWER LOAD - 50% DOMESTIC (GPD)	AVERAGE DOMESTIC WATER DEMAND (GPD)	SOLID WASTE GENERATION (LBS/DAY)
WNM 41SF	171	88	1,109	1,232	200

811 Know what's below. Call before you dig.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.
2. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND

- PROPOSED BUILDING
- PROPOSED CURB
- (27) PARKING SPACES
- PROPERTY LINE
- STANDARD DUTY ASPHALT
- HEAVY DUTY CONCRETE
- EXISTING LIGHT POLE TO REMAIN

SITE LEGEND

(A)	5" WIDE FIRE LANE STRIPING PAINTED TRAFFIC RED WITH "FIRE PARKING FIRE LANE" PAINTED WITH 4" HIGH WHITE LETTERING AT 25' O.C. SEE DETAIL SHEET.
(B)	60" PARKING STALL, PER CITY OF DANIA BEACH STANDARDS.
(C)	TYPE 'D' CURB, SEE DETAIL
(D)	PEDESTRIAN CROSSING SIGN W/ ARROW. TYPICAL AT PEDESTRIAN CROSSWALKS AS NOTED ON PLANS. (W11-2 AND W16-7P)
(E)	"FIELD" PAINTED WHITE ON PAVEMENT TYPICAL. SEE DETAIL SHEET.
(F)	CONCRETE JOINTING AND FILLERS TO BE COMPLETED PER DETAIL (TYPICAL OF ALL EXTERIOR CONCRETE EXCLUSIVE OF ARCHITECTURAL CONCRETE).
(G)	EXIT PORCH. SEE ARCHITECTURAL PLANS FOR EXACT SIZE, LOCATION FOR STOOPS, STAIRS AND/OR RAMPS THAT MAY BE REQUIRED. RAMP PAVEMENT FLUSH WITH THE TOP OF STOOP.
(H)	6" Ø PIPE BOLLARD TYPICAL UNLESS NOTED OTHERWISE. SEE DETAIL SHEET.
(I)	AT GRADE OVERHEAD DOOR LOCATION. SEE ARCHITECTURAL PLANS FOR EXACT SIZE AND LOCATION FOR COORDINATION WITH CIVIL PLANS.
(J)	4" WIDE x 150' LONG YELLOW PAINTED TRUCK ALIGNMENT STRIPES (TYPICAL).
(K)	10' X 42' CONCRETE COMPACTOR PAD AND 10' X 53' HEAVY DUTY PAD "LANDING AREA" REFER TO ARCHITECTURAL PLAN FOR EXACT LOCATION AND SLOPE.
(L)	CONCRETE TRANSFORMER PAD. CONTRACTOR TO COORDINATE WITH LOCAL POWER COMPANY FOR DETAILS.
(M)	ACCESSIBLE PARKING SPACE TYPICAL. SEE DETAIL SHEET FOR ACCESSIBLE PARKING SPACE SIZE, SIGN AND SYMBOL ("VAN"-INDICATES VAN ACCESSIBLE SPACE).
(N)	CART CORRAL (TYPICAL). SEE DETAIL SHEET FOR CART CORRAL DETAIL.
(O)	10' X 15' STRIPED AREA PAINTED SYSTAL* AT 45° @ 2'-0" O.C. AT JIB CRANE LOCATION. VERIFY JIB CRANE LOCATION WITH ARCHITECT PLANS.
(P)	BUILDING SETBACK LINE PER ZONING ORDINANCE.
(Q)	"NO PARKING FIRE LANE" SIGN. SEE PLAN FOR LOCATION.
(R)	EXISTING MONUMENT SIGN TO REMAIN
(S)	"TRUCK ROUTE" SIGN. SEE PLAN FOR LOCATION.
(T)	"STOP" SIGN. SEE DETAIL SHEET.
(U)	STOP BAR. SEE DETAIL SHEET.
(V)	ISOLATION JOINT TYPICAL AT FIXED STRUCTURES (BUILDINGS, RETAINING WALLS/DOCK WALLS, DROP INLETS, MANHOLES, LIGHT POLE BASES AND BOLLARDS). SEE DETAIL SHEET.
(W)	"DELIVERY TRAFFIC ONLY" SIGN. SEE DETAIL SHEET.
(X)	EXIST. FIRE HYDRANT TO REMAIN
(Y)	FIRE HYDRANT
(Z)	FDC - FIRE DEPARTMENT CONNECTION
(AA)	PEDESTRIAN CROSSWALK WITH 8" WIDE PAINTED WHITE STRIPING PARALLEL TO DIRECTION OF TRAFFIC AT 2'-0" O.C. AND (1)-8" WHITE STRIPE PERPENDICULAR ON BOTH ENDS UNLESS NOTED OTHERWISE. SEE SITE PLAN FOR DIMENSIONS.

VARIANCE REQUEST

THE APPLICANT REQUESTS A VARIANCE FROM SECTION 110-190(A)(9) OF THE CITY'S LAND DEVELOPMENT CODE TO ALLOW A DRIVE-THROUGH TO BE CONSTRUCTED AND USED AS PART OF THE RETAIL PHARMACY WHICH IS A COMPONENT OF THE WALMART NEIGHBORHOOD MARKET GROCERY STORE.

No.	REVISIONS	DATE
1	SITE PLAN AMENDMENT #2	5/7/2015 JRP
2	CIVIL ADDENDUM #1	5/19/2015 CJH

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200 VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696
STATE OF FLORIDA PROFESSIONAL ENGINEER
CHRISTOPHER J. HOLLIS
No. 74808
DATE SIGNED 10/22/14

SCALE AS NOTED
DESIGNED BY DFD
DRAWN BY DFD
CHECKED BY CJH

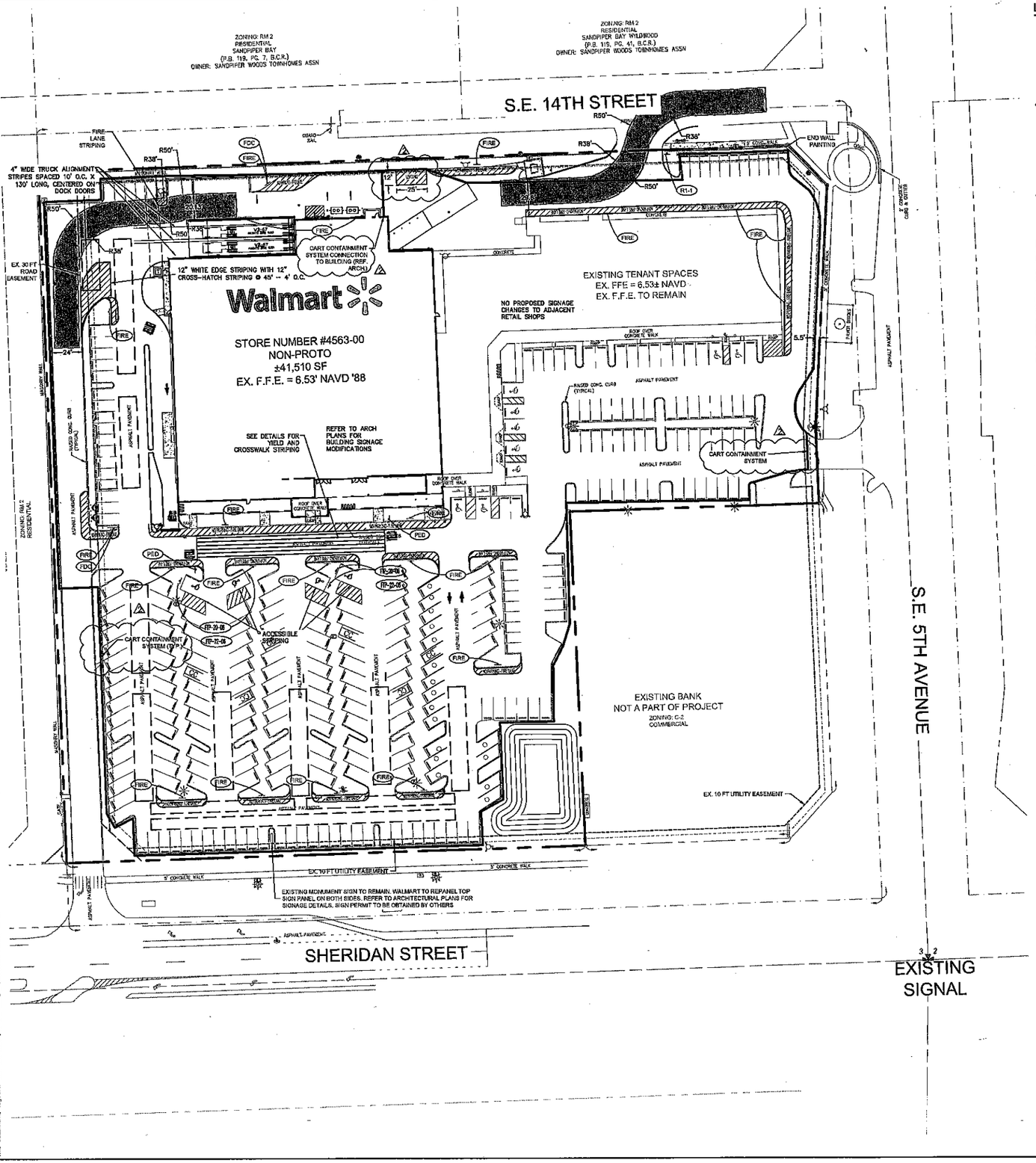
SITE PLAN

Walmart STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6220

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted by: christopher.hollis Joint Sheet Set: walmart-4563 - FNZ - Dania Beach Layout: 6220 SITE PLAN June 12, 2015 04:24:14pm K:\FNB_LIB\FNB\233 - wal-mart\5\5 - dania - sheridan st & 5th ave\CAD\plansheets - phase\6220 - site plan - FNZ - 4563.dwg



LEGEND

- PROPOSED BUILDING
- PROPOSED CURB AND GUTTER
- (57) PARKING SPACES
- CC CART CORRAL
- PROPERTY LINE
- STANDARD DUTY ASPHALT
- HEAVY DUTY CONCRETE
- FIRE TRUCK ROUTE (38' INSIDE RADIUS) (50' OUTSIDE RADIUS) (20' WIDE)
- CART CONTAINMENT LINE

SIGN LEGEND

- STOP — R1-1 STOP SIGN
- PARKING BY PERMIT ONLY — FTP-20-06 ACCESSIBLE PARKING (TYP. OF 16)
- $250 Fine F.S. 316.1945 — FTP-22-06 PENALTY (TYP. OF 16)
- PED YIELD HERE TO PEDESTRIANS
- NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT — FRE NO PARKING FIRE LANE SIGN
- NO PARKING FIRE DEPARTMENT CONNECTION — FDC FIRE DEPARTMENT CONNECTION SIGN

PARCEL LEGAL DESCRIPTION

PARCEL 1:
Tract A, SANDPIPER BAY COMMERCIAL, according to the plat thereof recorded in Plat Book 117, Page 2, Public Records of Broward County, Florida, LESS that portion described as follows:

COMMENCE at the Southwest corner of said Tract A; thence on an assumed bearing of North 88 degrees 37 minutes 24 seconds East along the South boundary of said Tract A, a distance of 418.36 feet to the Point of Beginning; thence North 01 degrees 37 minutes 09 seconds West a distance of 265.00 feet; thence North 88 degrees 37 minutes 24 seconds East a distance of 200.00 feet to the intersection with the said Easterly boundary of Tract A; thence South 01 degrees 37 minutes 09 seconds East along said Easterly boundary a distance of 229.65 feet to an angle point on the boundary of Tract A; thence South 43 degrees 30 minutes 07.5 seconds West and along said boundary a distance of 46.60 feet to the South boundary of Tract A; thence South 88 degrees 37 minutes 24 seconds West along said South boundary a distance of 164.85 feet to the POINT OF BEGINNING.

ALSO DESCRIBED AS:

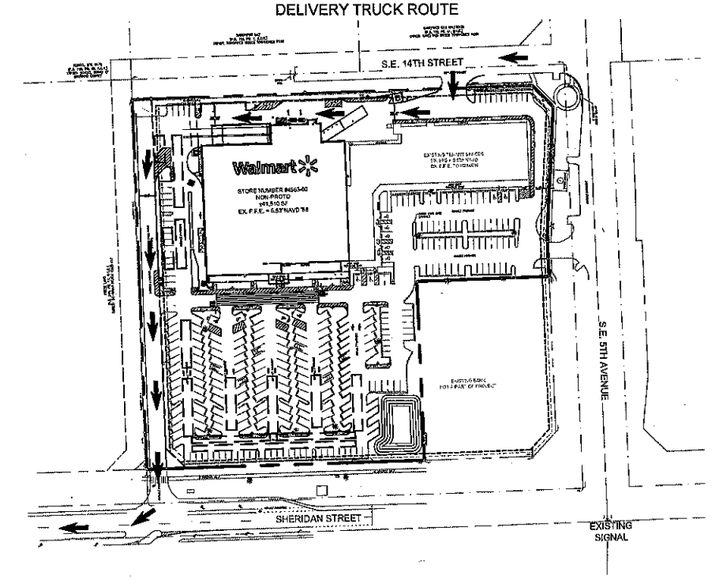
Tract A of SANDPIPER BAY COMMERCIAL, according to the plat thereof recorded in Plat Book 117, Page 2, Public Records of Broward County, Florida, LESS that portion described as TRANSFLORIDA'S BANK OFFICE BUILDING, a Condominium, according to the Declaration thereof, recorded in Official Records Book 13221, Page 342, Public Records of Broward County, Florida.

PARCEL 2:
Easements for the benefit of Parcel 1 above as described in that certain Memorandum of Lease between DDRM Sheridan Square, LLC, a Delaware limited liability company (Lessor) and Wal-Mart Stores East, LP (Lessee) dated _____, 2014 and recorded _____, 2014, in Official Records Book ____, Page ____, of the Public Records of Broward County, Florida.

Said lands lying and situate in the City of Dania Beach, Broward County, Florida, containing 267,059 square feet (6.5900 acres), more or less.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80



811 Know what's below. Call before you dig.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.
2. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

1	SITE PLAN AMENDMENT #2	6/3/2015

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
3660 MAGUIRE BLVD., SUITE 200, ORLANDO, FL 32803
TEL: 407-898-1511 FAX: 407-898-1267
WWW.KIMLEY-HORN.COM CA 00000696

CHRISTOPHER J. MOLLEN
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 74595

DESIGN ENGINEER: CHRISTOPHER J. MOLLEN, P.E.
FL LICENSE NUMBER No. 74595

SCALE: 1" = 40'
DESIGNED BY: CJM
DRAWN BY: JWS
CHECKED BY: CJM
DATE: 10/22/14

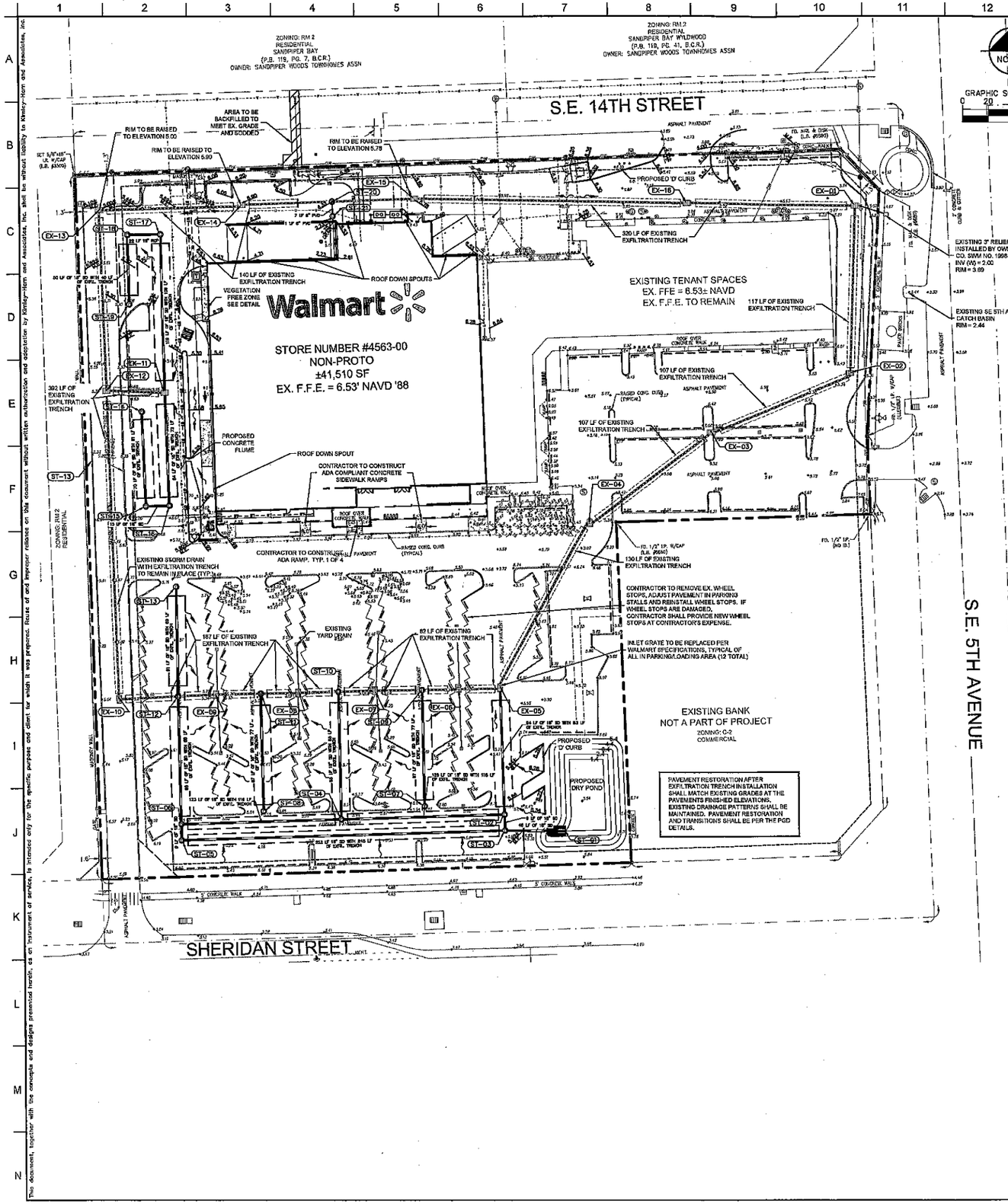
VEHICLE CIRCULATION SIGNING AND MARKING PLAN

Walmart STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6221

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted by: rotterson, John Sheet Set: Walmart-4563 - MA - Dania Beach Layout: 6221 VEHICLE CIRCULATION SIGNING AND MARKING PLAN June 16, 2015 04:24:10pm K:\MHS_LOCAL\047253 - wal-mart\6/8 - dania - sheridan st & 5th ave\CAD\planmarks - phz\6220 - SITE PLAN - PHZ - 4563.dwg



NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND

- PROPERTY LINE
- X.XX — PROPOSED SLOPE
- X.XX — PROPOSED SPOT GRADE
- ST-XX — PROPOSED STORM STRUCTURE
- EX-XX — EXISTING STORM STRUCTURE
- PROPOSED STORM SEWER PIPE
- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE
- EXISTING STORM SEWER PIPE
- EXISTING CATCH BASIN
- STANDARD DUTY ASPHALT
- HEAVY DUTY CONCRETE
- STORMWATER FLOW ARROW

DRAINAGE STRUCTURE TABLE

STRUCTURE	TYPE	RIM EL. (FT.)	INV. EL. (FT.)	RESPONSIBILITY TO PROVIDE
EX-01	EX. CATCH BASIN WITH 3" BLEEDER (E INV.) AND CLOSED BOTTOM OPEN TOP BAFFLE BAFFLE TOP EL. 4.70' BAFFLE BOTTOM EL. 2.45'	RIM: 5.12	EX. -0.13(S) EX. 2.85(S) EX. 1.43(W)	
EX-02	EX. CATCH BASIN	RIM: 5.09	EX. 1.43(W) EX. 1.30(W)	
EX-03	EX. CATCH BASIN	RIM: 5.04	EX. 1.25(W) EX. 1.33(N)	
EX-04	EX. CATCH BASIN	RIM: 4.95	EX. 1.31(W) EX. 1.11(NE)	
EX-05	EX. CATCH BASIN	REPLACE RIM: 5.10	EX. 1.20(W) EX. 1.23(NE) PR. 0.4(S)	
EX-06	EX. CATCH BASIN	REPLACE RIM: 5.15	EX. 1.25(W) EX. 1.20(E)	
EX-07	EX. CATCH BASIN	REPLACE RIM: 4.91	EX. 1.20(W) EX. 1.10(E)	
EX-08	EX. CATCH BASIN	REPLACE RIM: 4.98	EX. 1.20(W) EX. 1.20(E)	
EX-09	EX. CATCH BASIN	REPLACE RIM: 5.22	EX. 1.40(W) EX. 1.44(E)	
EX-10	EX. CATCH BASIN	REPLACE RIM: 4.72	EX. 1.08(W) EX. 1.20(E)	
EX-11	EX. CATCH BASIN	REPLACE RIM: 4.77	EX. 0.95(W) EX. 1.04(S) PR. 0.40(S) PR. 0.40(W)	
EX-12	EX. CATCH BASIN	REPLACE RIM: 4.82	EX. 1.10(S) EX. 1.10(S) EX. 1.05(E)	
EX-13	EX. CATCH BASIN	RAISED & REPLACED RIM: 5.00	EX. 1.12(N) EX. 1.11(S) EX. 1.13(E)	
EX-14	EX. CATCH BASIN	RAISED & REPLACED RIM: 5.00	EX. 2.33(W) EX. 1.10(E)	
EX-15	EX. CATCH BASIN	RAISED & REPLACED RIM: 5.78	EX. 1.11(W) EX. 1.10(E)	
EX-16	EX. CATCH BASIN	REPLACE RIM: 5.28	EX. 1.20(E) EX. 1.15(W)	
ST-01	MITERED END SECTION	RIM: N/A	PR. 1.40(E)	OWNER
ST-02	MANHOLE	RIM: ±5.87	PR. 0.40(W) PR. 0.40(S) PR. 0.40(W)	OWNER
ST-03	MANHOLE W/ CLOSED BOTTOM OPEN TOP BAFFLE (E INV) BAFFLE TOP EL. 4.70' BAFFLE BOTTOM EL. 0.00'	RIM: ±5.97	PR. 0.40(W) PR. 0.40(W) PR. 0.40(S)	OWNER
ST-04	MANHOLE	RIM: ±5.99	PR. 0.40(W) PR. 0.40(W) PR. 0.40(E)	OWNER
ST-05	MANHOLE	RIM: ±6.16	PR. 0.40(W) PR. 0.40(E)	OWNER
ST-06	MANHOLE	RIM: ±6.06	PR. 0.40(W) PR. 0.40(S) PR. 0.40(E)	OWNER
ST-07	MANHOLE	RIM: ±5.97	PR. 0.40(W)	OWNER
ST-08	MANHOLE	RIM: ±5.96	PR. 0.40(N)	OWNER
ST-09	MANHOLE	RIM: ±5.46	PR. 1.30(W) PR. 0.40(S) PR. 1.20(E)	OWNER
ST-10	MANHOLE	RIM: ±5.47	PR. 1.30(W) PR. 0.40(S) PR. 1.20(E)	OWNER
ST-11	MANHOLE	RIM: ±5.56	PR. 1.20(E) PR. 0.40(S) PR. 1.30(W)	OWNER
ST-12	MANHOLE	RIM: ±5.54	PR. 1.30(W) PR. 0.40(N) PR. 1.30(E) PR. 0.40(S)	OWNER
ST-13	MANHOLE	RIM: ±5.72	PR. 0.40(S)	OWNER
ST-14	MANHOLE	RIM: ±5.65	PR. 0.40(S)	OWNER
ST-15	MANHOLE	RIM: ±5.78	PR. 0.40(N) PR. 0.40(E)	OWNER
ST-16	MANHOLE	RIM: ±5.37	PR. 0.40(N) PR. 0.40(W)	OWNER
ST-17	MANHOLE	RIM: ±5.51	PR. 0.40(S)	OWNER
ST-18	MANHOLE	RIM: ±5.45	PR. 0.40(W) PR. 0.40(W)	OWNER
ST-19	MANHOLE	RIM: ±5.40	PR. 0.40(W) PR. 0.40(W)	OWNER
ST-20	SUMP PUMP MANHOLE	RIM: ±6.50	PR. 2.48 (S) FROM TRENCH. REFER TO PGD	WALMART
ST-21	MANHOLE	RIM: ±6.33	PR. 41.10(S) PR. 41.10(W)	WALMART

GRADING NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
4. STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: (SEE MASTER SITE SPECIFICATIONS SECTION 02630 FOR ALLOWED MATERIALS.
5. EXISTING PIPES TO BE CLEANSED OUT TO REMOVE ALL SILT AND DEBRIS.
6. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
7. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
8. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 2' ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
9. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND THE WALMART SPECIAL CONDITIONS, SECTION 8, ENVIRONMENTAL COMPLIANCE AND STORM WATER POLLUTION PREVENTION. THIS APPLIES TO WALMART BUILT PROJECTS ONLY.
10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
11. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
12. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL APPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE LESSEE AND LESSOR FOR REVIEW.
13. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
14. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
15. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
16. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
17. NO DEWATERING EFFLUENT TO BE DISCHARGED OFF-SITE.
18. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
19. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAWCUT THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
20. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT THE FULL DEPTH OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
21. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
22. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER-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 DISPOSE OF IN A LEGAL MANNER.
23. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORMWATER PIPING PER SPECIFICATIONS.
24. ELEVATIONS SHOWN AT CURBLINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
25. INLETS SHALL HAVE BICYCLE SAFE GRATES PER CITY REQUIREMENTS AND BY CONFORMANCE WITH WALMART REQUIREMENTS.
26. ALL INVERTS FROM STRUCTURES TO RUNS OF EXFILTRATION TRENCH SHALL RECEIVE A BARREL HOOKUP DETAIL.
27. STORM STRUCTURES TO MEET STANDARDS SET FORTH IN FDOT INDEX, LATEST EDITION.

FINAL FOUNDATION SUBSURFACE PREPARATION
PROPOSED WALMART NEIGHBORHOOD MARKET STORE #4563
DANIA BEACH, BROWARD COUNTY, FLORIDA
MARCH 23, 2015

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION SHALL BE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 5 FEET BEYOND THE BUILDING AND APPURTENANCES. APPURTENANCES TO BE THOSE ITEMS ATTACHED TO THE BUILDING PROPER (REFER TO DRAWING SHEET S-1), TYPICALLY INCLUDING, BUT NOT LIMITED TO, THE BUILDING SUBSLAB, SWITCH CONTROL FORCE LINES, RAMPS, STOOPS, WALKWAYS, LOADING DOCKS, CONCRETE APRONS, CONTRACTOR PAD, ETC. INSTALLATION AND PLACEMENT OF ALL MATERIALS SHALL BE IN ACCORDANCE WITH ASTM D 2487 AND MEETING ASTM E 1745, "CLASS A" REQUIREMENTS, PLACED ABOVE THE BASE AND DIRECTLY BELOW THE SLAB. NOTE: VAPOR BARRIERS REQUIRED BY THE FLORIDA BUILDING CODE, DO NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING AND THE APPURTENANCES.

****

ESTABLISH THE INITIAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLABS AND BASE. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. THE 4 INCH THICK BASE MATERIAL SHALL CONFORM TO SECTION 200 AND SECTION 911 OF THE 2010 FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. LIMEROCK MATERIAL SHALL HAVE AT LEAST 97% BY WEIGHT PASSING A 3/8 INCH SIEVE AND SHALL BE GRADED UNIFORMLY DOWN TO DUST. THE FINE MATERIAL SHALL CONSIST ENTIRELY OF DUST OF FRACTURE. THE LIMEROCK MATERIAL SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF AT LEAST 100. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS AND MAINTENANCE OF EXISTING ONSITE SOILS. ANY PROPOSED EQUIVALENT ALTERNATIVE BASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE OEC AND AOR.

****

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE BUILDING AREA. REMOVE ALL SURFACE VEGETATION, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, DISTINTEGRATED FILL AND/OR OTHERWISE UNSATISFACTORY MATERIAL (AS DEFINED IN SPECIFICATION SECTION 2300) FROM THE BUILDING AREA, PROPERLY EXPOSED SUBGRADE. REMOVE AND REPLACE ALL UNSATISFACTORY AREAS WITH SATISFACTORY MATERIAL. SUBGRADE MATERIAL SHALL BE SATISFACTORY MATERIAL FREE OF ORGANICS, NON-PLASTIC, AND GRANULAR SOIL WITH LESS THAN 10 PERCENT PASSING THE NO. 200 MESH SIEVE.

****

SUBGRADE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98 PERCENT IN THE TOP 2 FEET AND 95 PERCENT BELOW THE TOP TWO FEET OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AT A MOISTURE CONTENT WITHIN +/-2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.

****

THE FOUNDATION SYSTEM SHALL CONSIST OF AUGERCAST PILE SYSTEM OR HELICAL PILE SYSTEM. PERIMETER DRAINS MAY BE REQUIRED IN THE TRUCK DOOR AREAS AS INDICATED IN THE GEOTECHNICAL REPORT.

****

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. INFORMATION COVERED IN THIS PREPARATION SHALL TAKE PRECEDENCE OVER THE WALMART SPECIFICATIONS.

****

REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION. THIS INFORMATION WAS TAKEN FROM A GEOTECHNICAL REPORT PREPARED BY ECS FLORIDA, LLC, DATED MARCH 23, 2015. (GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).

ON-SITE STORMWATER IMPROVEMENTS (I.E. PROPOSED EXFILTRATION TRENCH AND DRY POND), AS WELL AS PAVEMENT/CURB RESTORATION REQUIRED BECAUSE OF THE STORMWATER IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF DORM SHERIDAN SQUARE LLC, THE OWNER OF THE SHOPPING CENTER.

PROPOSED STORMWATER SYSTEM NOTES:
1. ALL PROPOSED DRAINAGE MANHOLE STRUCTURE RIMS SHALL MATCH FLUSH WITH EXISTING PAVEMENT GRADES.

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) PER TOPOGRAPHIC SURVEY BY AVIROM & ASSOCIATES, INC

PRIOR TO DEMOLITION, EARTHWORK OR DEWATERING CONTRACTOR TO REFER TO DEWATERING PLAN.

PRIOR TO DEMOLITION, CONTRACTOR TO REFER TO SOIL MANAGEMENT PLAN.

CONTRACTOR TO JETVAC SITE STORM SYSTEM UPON COMPLETION OF PROPOSED EXFILTRATION TRENCH INSTALLATION.

811 Know what's below. Call before you dig.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE, AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.
2. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

No.	REVISIONS	DATE

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
4151 N. OLIVE, SUITE 200, WEST PALM BEACH, FL 33409
PHONE: 561-772-7194
FAX: 561-772-7196
CA 00000696

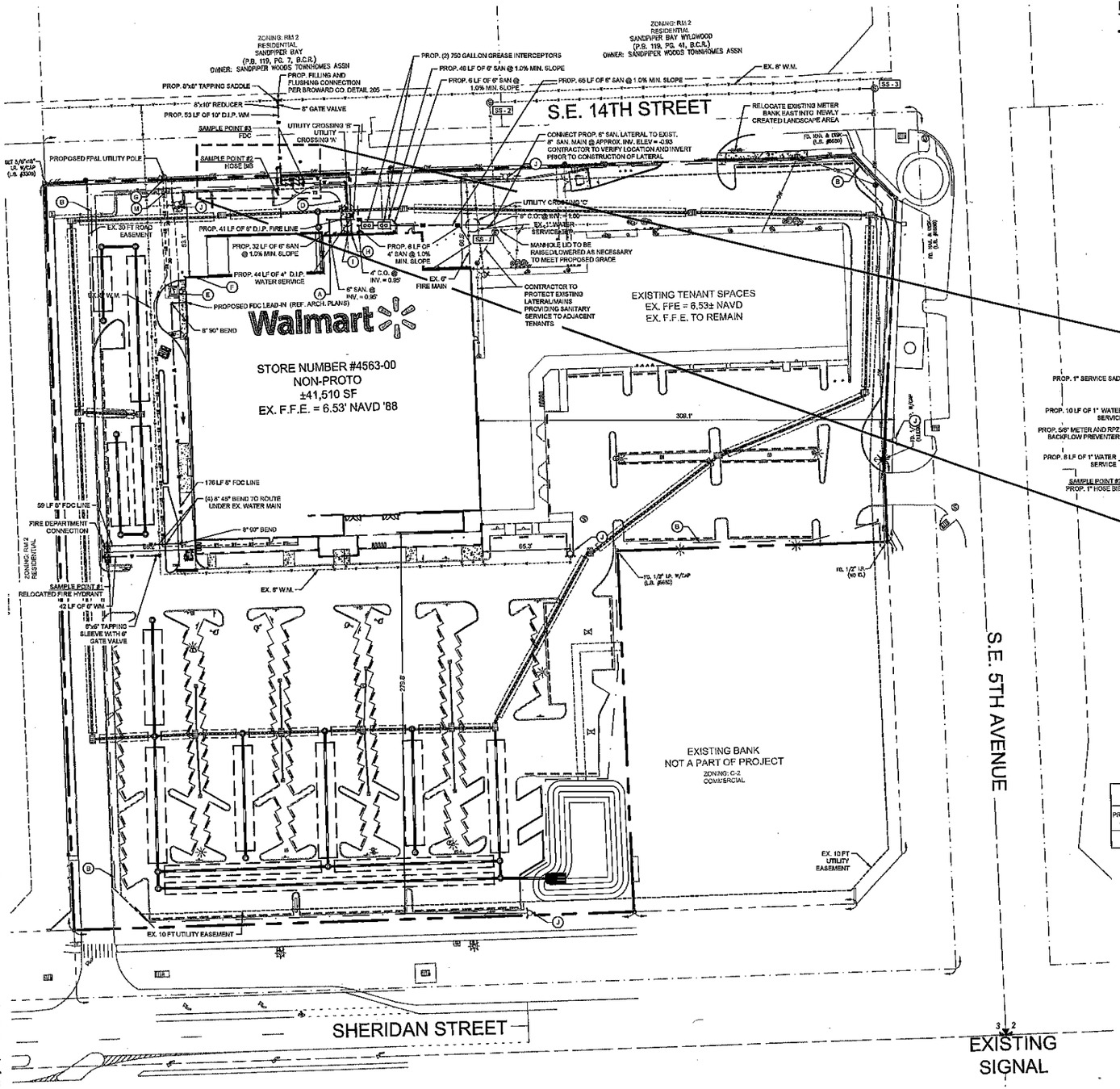
DESIGN ENGINEER: CHRISTOPHER J. HOLLEN, P.E.
CONSTRUCTION ENGINEER: N/A
P.E. LICENSE NUMBER: 74985
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SCALE: AS NOTED
DESIGNED BY: CJH
DRAWN BY: DFD
CHECKED BY: CJH

GRADING AND DRAINAGE PLAN

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

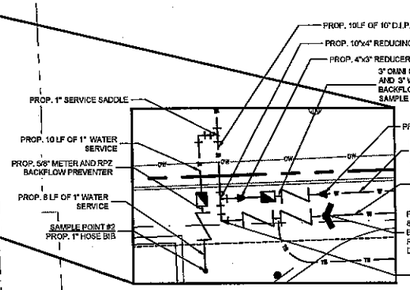
DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6250

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

- PROPERTY LINE
- PROPOSED CLEANOUT
- PROPOSED GREASE TRAP (REF. ARCH. PLANS FOR DETAILS)
- SANITARY SEWER MANHOLE
- PROPOSED TRANSFORMER PAD WITH BOLLARD PROTECTION
- PROPOSED TAMPER SWITCH
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED GATE VALVE (SEE PLAN FOR SIZE)
- PROPOSED REDUCER (SEE PLAN FOR SIZE)
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED STORM SEWER PIPE
- PROPOSED STORM MANHOLE
- PROPOSED BURIED ELECTRIC
- PROPOSED BURIED TELEPHONE



WATER LAYOUT ENLARGEMENT
1" = 10'

EXISTING SANITARY SEWER SCHEDULE *

SS-#	STR. TYPE	RIM ELEV.	INVERT ELEVATION	PIPE SIZE / TYPE
SS-1	EXISTING MANHOLE	6.44	-0.80 (SW) -0.80 (SE) -0.83 (W)	8"
SS-2	EXISTING MANHOLE	4.43	-4.15 (E) -4.10 (S) -4.30 (S)	8"
SS-3	EXISTING MANHOLE	3.68	-5.62 (S) -5.62 (W) -5.85 (NE)	10"

WATER, SANITARY SEWER, AND WASTE DEMAND

PROTOTYPE & SIZES	PROTOTYPE FIXTURE UNITS	DOMESTIC WATER INSTANTANEOUS PEAK FLOW (GPM)	AVERAGE SEWER LOAD - 90% DOMESTIC (GPD)	AVERAGE DOMESTIC WATER DEMAND (GPD)	SOLID WASTE GENERATION (LBS/DAY)
WNM 41SF	171	66	1,100	1,232	200

WATERMAIN PRESSURE TESTS SHALL BE IN ACCORDANCE WITH AWWA 600-10 OR LATEST REVISION FOR D.I.P. AND AWWA 605-13 OR LATEST REVISION FOR PVC.

ALLOWABLE LEAKAGE SHALL NOT EXCEED THE FORMULA OF :
L(GALLONS PER HOUR) = SD√P/148,000

L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR
S=LENGTH OF PIPE TESTED IN FEET
D= NOMINAL DIAMETER OF PIPE IN INCHES
P= AVERAGE TEST PRESSURE DURING TEST IN PSI

WATERMAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA 651-05 OR LATEST REVISION.

WATERMAINS SHALL BE INSTALLED WITH A MINIMUM 36" COVER FOR PVC AND 30" COVER FOR DUCTILE IRON PIPE

ALL WATERMAINS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF FAC 62-555.320(21)(B)(3).

UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
   PVC SDR35 PER ASTM D 3034
4. WATER LINES SHALL BE AS FOLLOW:
   4"-12", PVC C900-07 PER ASTM D 2241, DR18
   14"-48", PVC C905-10 PER ASTM D 2241, DR 18
   CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
   4"-12" DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350
   14"-16" DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 250
   3" AND SMALLER, EITHER COPPER TUBE TYPE "K" (SOFT) PER ASME B16.22, OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
7. ALL UTILITIES SHOULD BE KEPT TEN (10) APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATER LINES.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS.
12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
13. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
14. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
15. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (DANIA BEACH) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
16. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
17. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
19. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
20. CONTRACTOR TO RE-LAMP/ REPAIR EXISTING BUILDING MOUNTED AND DECORATIVE ROOF LINE OF WESTERN WALMART BUILDING WALL.
21. CONTRACTOR TO CUT, REMOVED AND PLUG AT THE MAIN HOLE, ANY EXISTING SEWER LATERALS CURRENTLY SERVING THE PROPOSED TAKE OVER SPACE.
22. THE EXISTING UTILITY POLES AT THE NORTH PROPERTY LINE ARE LARGE ENOUGH THE NECESSARY CAPACITY FOR THE NEW ELECTRICAL SERVICE. A NEW UTILITY POLE IS PROPOSED IN THE NW CORNER OF THE PROPERTY AND IS TO BE INSTALLED BY FP&L. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE PRIMARY POLES AND RISER WITH FP&L. CONTRACTOR SHALL INSTALL PRIMARY CONDUIT UP TO UTILITY POLE RISER.
23. CONTRACTOR TO DIG TEST PITS AT PROPOSED SANITARY AND GREASE LATERALS AND CONFIRM TIE-IN ELEVATION. ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IDENTIFIED PRIOR TO SHOP DRAWING SUBMITTAL.
24. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND INSTALLATION OF THE CART CONTAINMENT SYSTEM. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND BUILDING CONTRACTOR FOR LOCATION OF CONNECTIONS AND DETAILS.
25. DUCTILE IRON WATER PIPE SHALL BE PER AWWA C151, PRESSURE CLASS 350.
26. PERFORM DISINFECTION OF INSTALLED WATER PIPE PER AWWA C651-05.
27. INSTALLATION AND TESTING OF INSTALLED WATER PIPE SHALL BE PER AWWA C600-10 (FOR DIP PIPE) OR AWWA C605-13 (FOR PVC PIPE). ALLOWABLE LEAKAGE SHALL BE 2 QUARTS PER HOUR PER 100 JOINTS ACCORDING TO THE PROJECT SPECIFICATIONS.
28. ALL ABOVE GROUND WATER MAINS ARE TO BE PAINTED BLUE.

UTILITY LEGEND

- (A) 6" SANITARY SEWER LATERAL AT MINIMUM 1.0% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.
- (B) CART CONTAINMENT SYSTEM
- (C) INTENTIONALLY DELETED
- (D) 1" PVC CONDUIT FOR TAMPER SWITCH.
  PROPOSED LOCATION OF TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD. CONDUIT AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY. FINAL LOCATION OF TRANSFORMER AND BOLLARD CANNOT CONFLICT WITH TRUCK ACCESS TO DOCK DOOR.
- (E) UNDERGROUND TELEPHONE FROM POLE TO BUILDING TO BE EXTENDED BY TELEPHONE COMPANY.
  CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF OVERHEAD TELEPHONE LINES. CONTRACTOR SHALL COORDINATE THE TYING OF INDIVIDUAL METERS WITH THE ELECTRIC COMPANY. CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY TO INSURE PROPER SEPARATION BETWEEN OVERHEAD LINES AND LIGHT POLES.
- (F) 4" DOMESTIC WATER LINE ENTRY WITH METER PER CITY OF DANIA BEACH PUBLIC WORKS REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH CITY OF DANIA BEACH PUBLIC WORKS DEPARTMENT.
- (G) SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC., MEETING WATER COMPANY SPECIFICATIONS.
- (H) EXISTING FIRE HYDRANT AND ASSEMBLY TO REMAIN
- (I) ONE 3" DIAMETER CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR 3" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLPOLYETHYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED CABLE" WORDING, 12" ABOVE CONDUIT.
- (J)
- (M)

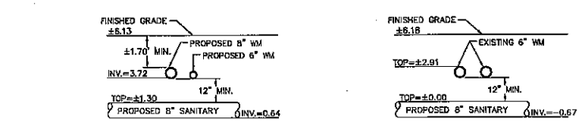
GENERAL NOTES

1. IT IS ASSUMED THAT EXISTING MONUMENT SIGN LIGHTING AND SHOPPING CENTER IRRIGATION PUMP STATION AND CONTROLLER AND SHOPPING CENTER LIGHT POLES ARE POWERED FROM THE SHOPPING CENTER OWNER'S HOUSE METER. THE SERVICE CONNECTIONS TO EACH OF THE AFOREMENTIONED ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR, PROTECTED BY THE CONTRACTOR, AND IN THE EVENT THAT ANY OF THE AFOREMENTIONED ARE NOT FUNCTIONAL DUE TO A LACK OF OR DAMAGED ELECTRICAL SOURCE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR PROVIDE PERMANENT ELECTRICAL SERVICE TO THESE ITEMS.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE, WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.
2. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

Know what's below. Call before you dig.



UTILITY CROSSING DETAIL 'A' — UTILITY CROSSING DETAIL 'B' — UTILITY CROSSING DETAIL 'C'

No.	REVISIONS	DATE

Kimley»Horn
© KIMLEY-HORN AND ASSOCIATES, INC.
1777 S. BAYSHORE DR., STE. 200, MIAMI, FL 33133
PHONE: 786-552-4500
WWW.KIMLEY-HORN.COM CA 00000696

SCALE AS NOTED
DESIGNED BY DKDP
DRAWN BY DFD
CHECKED BY CAH
DESIGN ENGINEER
CHRISTOPHER A. HOLLEY, P.E.
LICENSE STATE OF FLORIDA No. 74685
PROFESSIONAL ENGINEER

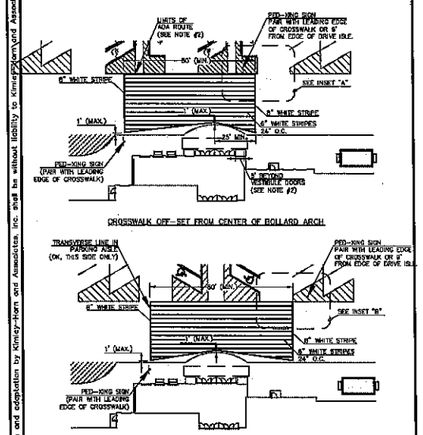
UTILITY PLAN

Walmart STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6280

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Patterson, John Street Set:Walmart-4563 - Ph2 - Dania Beach Layout:6280 UTILITY PLAN June 15, 2015 04:25:06pm K:\WRD_LDEV\047253 * wal-mart\678 - dania - sheridan st & 5th ave\CAD\plansheets - ph2\6280 - UTILITY PLAN - Ph2 - 4563.dwg



CROSSWALK OFF-SET FROM CENTER OF BOLLARD ARCH

CROSSWALK CENTERED ON BOLLARD ARCH

NOTES:
1. REFERENCE EACH VESTIBULE ON THE SITE PLAN FOR FINAL LAYOUT, DIMENSIONS AND SIGN LOCATION.
2. TRANSVERSE LINE OF CROSSWALK SHALL BE LOCATED AT END OF PARKING STALL. LIMITS OF ADA ROUTE OR 5' BEYOND VESTIBULE DOORS. TRANSVERSE LINE (FOR TRAFFIC MOVING RIGHT TO LEFT PER THIS DETAIL) CAN'T END IN A PARKING AISLE ON THE PARKING LOT SIDE OF THE FRONT DRIVE.
3. SEE INSETS "A", "B" AND "C" FOR SIGN LOCATION FOR EACH OF THE THREE OPTIONS.

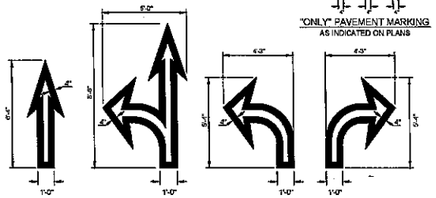
VESTIBULE CROSSWALK STRIPING WITH BOLLARD ARCH

N.T.S.

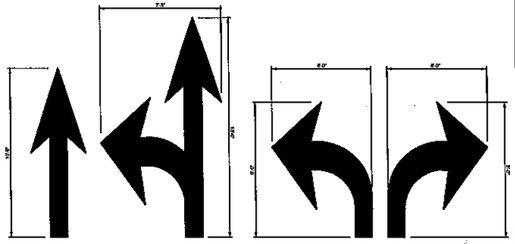
DTXXWALK | 03/04/11

NOTES:
1. WORDS AND ARROWS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 39.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS AND ARROWS ARE TO BE PAINTED RETOREFLECTIVE WHITE.
3. OPEN ARROWS SHALL CONSIST OF A 4" PERIMETER STRIPE.

"ONLY" PAVEMENT MARKING
AS INDICATED ON PLANS



OPEN ARROW MARKINGS
USED IN THE PARKING LOT AISLES

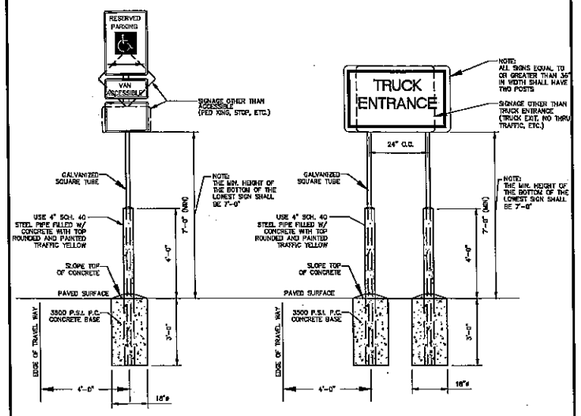


SOLID ARROW MARKINGS
USED AT EXITS FROM THE PARKING LOT TO PUBLIC STREETS

PAVEMENT MARKINGS

N.T.S.

DTRTLTURN | 03/03/11

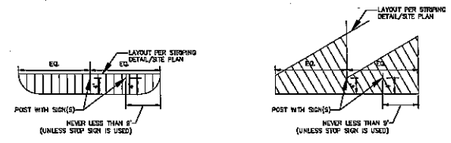


SINGLE POST
N.T.S.

DOUBLE POST
N.T.S.

NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

POST TUBES – 2"x2"x3/16" 12ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

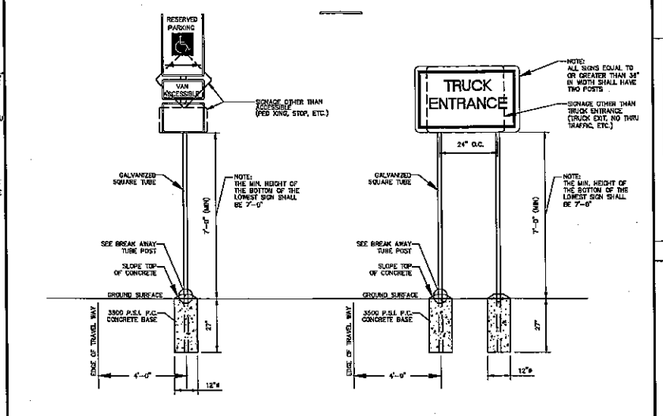


SIGN LOCATIONS – 90' PARKING

SIGN LOCATIONS – 60' PARKING

SIGN MOUNTING AND BASE WITH BOLLARD
(USE WHERE SIGN IS NOT WITHIN CURBED ISLAND)

N.T.S.



SINGLE POST
N.T.S.

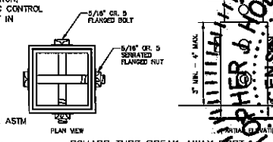
DOUBLE POST
N.T.S.

NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

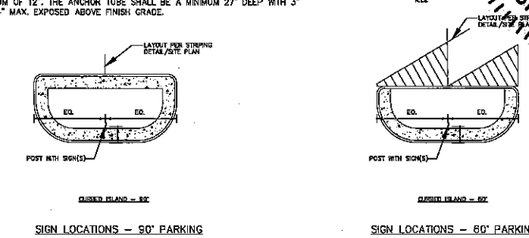
POST TUBES – 2"x2"x3/16" 12ga
POST TUBE SHALL MEET ASTM A1011 GRADE 50.
POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

ANCHOR TUBE – 2-1/4"x2-1/4"x3/16" 12ga
HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B.
STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.



SQUARE TUBE BREAK AWAY POST
N.T.S.



SIGN LOCATIONS – 90' PARKING

SIGN LOCATIONS – 60' PARKING

SIGN MOUNTING AND BASE WITHOUT BOLLARD
(USE WHERE SIGN IS WITHIN CURBED ISLAND)

N.T.S.

SIGN MOUNTING AND BASE

N.T.S.

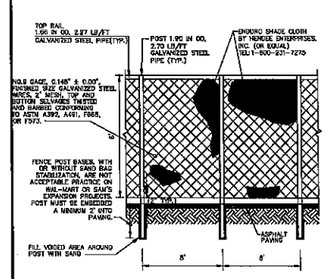
02/26/15 | DTSIGNMB

LOCATE AT EDGE OF PARKING SPACE

4" WIDE WHITE PAINT STRIPING OR PER LOCAL CODE

ACCESSIBLE PARKING SYMBOL

N.T.S.

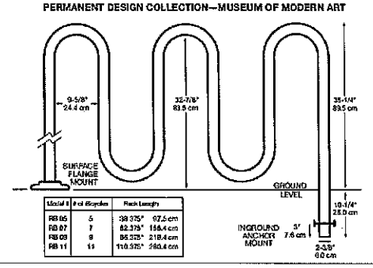


TEMPORARY FENCE

N.T.S.

DTTMFNCE | 09/17/07

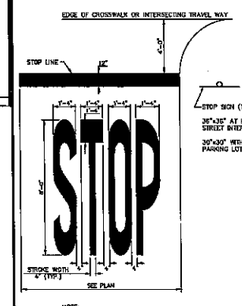
The Original Ribbon Rack—IDSA National Design Award Winner
PERMANENT DESIGN COLLECTION—MUSEUM OF MODERN ART



Model #	# of Bicycles	Rack Length
RB 05	5	38.375" 97.5 cm
RB 07	7	62.375" 158.4 cm
RB 09	9	86.375" 219.4 cm
RB 11	11	110.375" 280.4 cm

RIBBON BIKE RACK

N.T.S

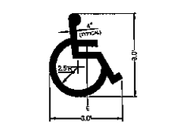


NOTE:
1. WORDS AND LINES SHALL BE APPLIED IN ACCORDANCE WITH SECTIONS 39.16 AND 39.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS AND BAR ARE TO BE PAINTED RETOREFLECTIVE WHITE.

STOP SIGNAGE AND MARKING

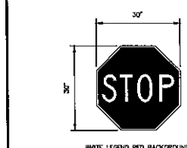
N.T.S.

DTSTOPBR | 03/04/11



ACCESSIBLE PARKING SIGN

N.T.S.



R1-1
30"X30"
"STOP" SIGN

N.T.S.

ALL SIGN LETTERS TO COMPLY WITH STANDARD ALPHABETS FOR HIGHWAY SIGNS (SERIES C 2000)

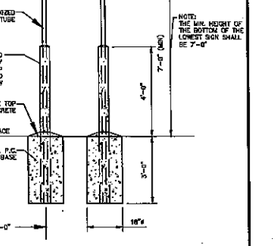
"TRUCK DRIVE" SIGN

N.T.S.

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

"PEDESTRIAN CROSSING" SIGN

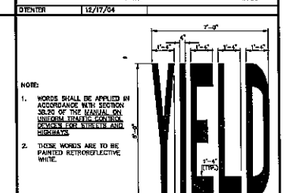
N.T.S.



"ENTER" PAVEMENT MARKER W/ARROW

N.T.S.

DTENTER | 12/17/04

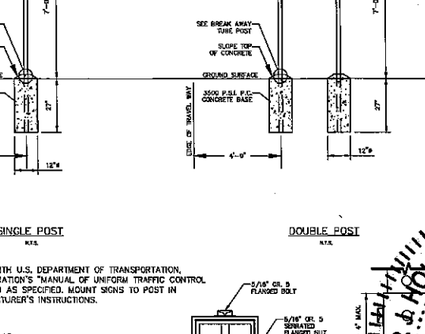


NOTE:
1. WORDS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 39.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS ARE ARE TO BE PAINTED RETOREFLECTIVE WHITE.

"YIELD" PAVEMENT MARKING

N.T.S.

DTYIELDM | 03/04/11



CART CORRALS WILL BE PROVIDED BY WAL-MART AND ASSEMBLED/INSTALLED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE SITE PLAN.

CART CORRAL

N.T.S.

DTCARTSD | 01/21/03

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
4901 VINELAND ROAD, SUITE 200, ORLANDO, FL 32811
PHONE: 407-898-1511 FAX: 407-896-2594
WWW.KIMLEY-HORN.COM CA 00000696

STATE OF FLORIDA
CHRISTOPHER J. HOLLEN
LICENSE No. 74685
PROFESSIONAL ENGINEER

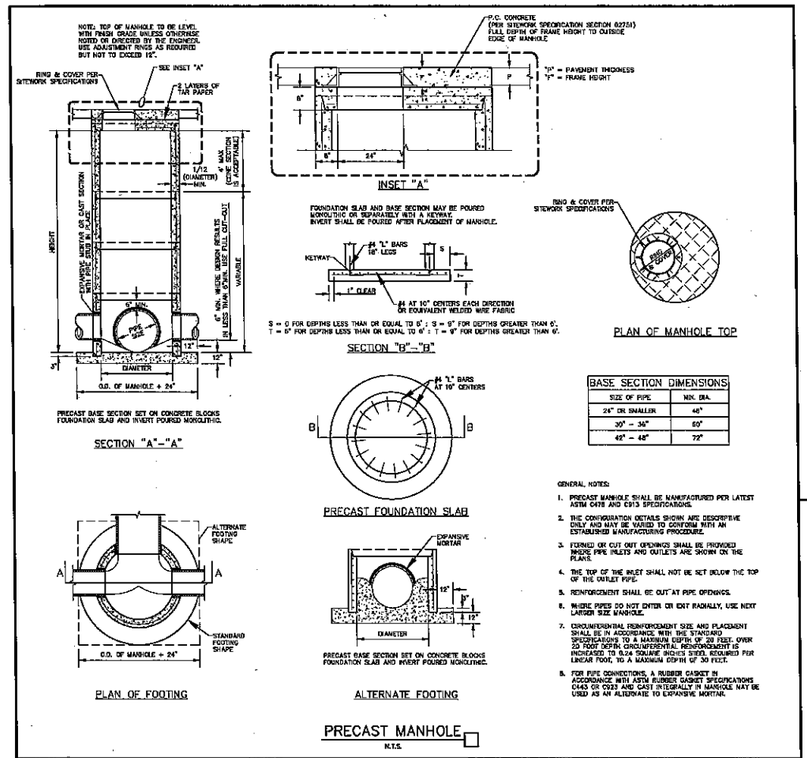
SCALE: NOT TO SCALE
DESIGN PROJECT MANAGER: CHRISTOPHER J. HOLLEN, P.E.
DESIGNED BY: DFT
DRAWN BY: DFT
CHECKED BY: CJH

SITE DETAILS

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6310

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



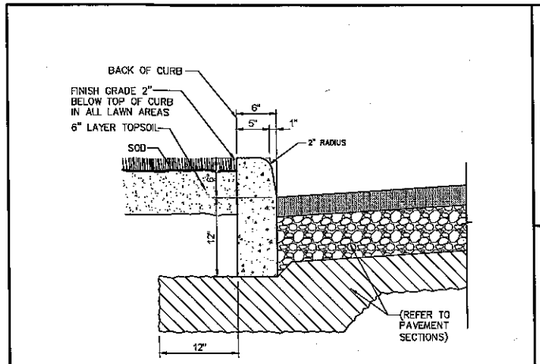
BASE SECTION DIMENSIONS	
SIZE OF PIPE	MIN. DIA.
24" OR SMALLER	48"
30" – 36"	60"
42" – 48"	72"

GENERAL NOTES:

1. PRECAST MANHOLE SHALL BE MANUFACTURED PER LATEST ASTM C478 AND C913 SPECIFICATIONS.
2. THE CONFIGURATION DETAILS SHOWN ARE DESCRIPTIVE ONLY AND MAY BE VARIED TO CONFORM WITH AN ESTABLISHED MANUFACTURING PROCEDURE.
3. FORMED OR CUT OUT OPENINGS SHALL BE PROVIDED WHERE PIPE INLETS AND OUTLETS ARE SHOWN ON THE PLANS.
4. THE TOP OF THE INLET SHALL NOT BE SET BELOW THE TOP OF THE OUTLET PIPE.
5. REINFORCEMENT SHALL BE CUT AT PIPE OPENINGS.
6. WHERE PIPES DO NOT ENTER OR EXIT RADIALLY, USE NEXT LARGER SIZE MANHOLE.
7. CIRCUMFERENTIAL REINFORCEMENT SIZE AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO A MAXIMUM DEPTH OF 20 FEET. OVER 20 FOOT DEPTH, CIRCUMFERENTIAL REINFORCEMENT IS INCREASED TO 0.04 SQUARE INCHES STEEL REQUIRED PER LINEAR FOOT, TO A MAXIMUM DEPTH OF 30 FEET.
8. FOR PIPE CONNECTIONS, A RUBBER GASKET IN ACCORDANCE WITH ASTM RUBBER GASKET SPECIFICATIONS C443 OR C923 AND CAST INTEGRALLY IN MANHOLE MAY BE USED AS AN ALTERNATE TO EXPANSIVE MORTAR.

PRECAST MANHOLE
N.T.S.

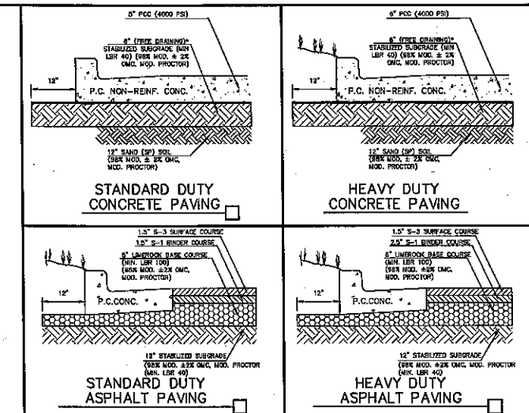
DTPRCSTMH | 10/12/09



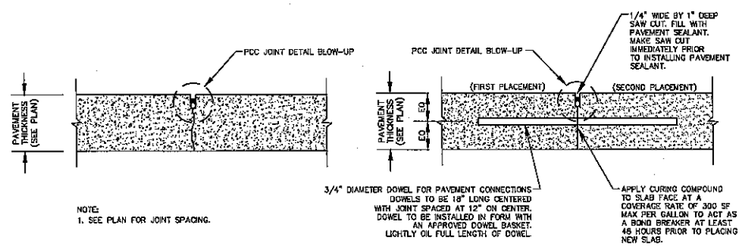
MODIFIED TYPE "D" CURB DETAIL
N.T.S.

NOTE:
- SEE SPECIFICATION SECTION 02770 FOR JOINT SPACING.
- SEE SPECIFICATION SECTION 02770 FOR SAWCUT DEPTH.

DETAIL PROVIDED BY KIMLEY-HORN AND ASSOCIATES, INC.



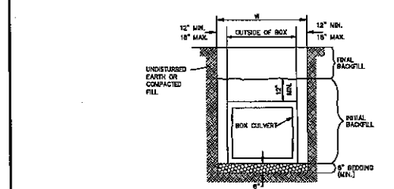
NOTES:
1. LIMEROCK SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED A MINIMUM OF 98 PERCENT OF THE MODIFIED PROCTOR (ASTM d 1557) MAXIMUM DRY DENSITY.
2. COMPLIANCE TESTING FOR BASE MATERIALS SHALL BE PERFORMED AT A FREQUENCY OF ONE TEST PER 10,000 SF PER LIFT, OR AT A MINIMUM OF TWO TEST LOCATIONS PER LIFT, WHICHEVER IS GREATER.
3. ALL STABILIZED SUBGRADE MATERIALS SHALL BE COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR (ASTM D 1557) MAXIMUM DRY DENSITY.
4. FREE DRAINING SOILS MUST HAVE a > 1 x 10-4 cm/sec.
5. ASPHALT SURFACE AND BINDER COURSE MAY BE DESIGNED AS MARSHALL MIX S-4 OR S-5 OR APPROVED EQUAL SUPERPAVE DESIGN PER FDOT.
6. SUBGRADE SOIL, STABILIZED SUBGRADE, AND BASE COURSE SHOULD BE COMPACTED AT 95% MAXIMUM DRY DENSITY (MDD) WITHIN 2% OF OPTIMUM MOISTURE CONTENT (OMC) OF MODIFIED PROCTOR VALUES.
7. STABILIZED SUBGRADE SOIL MAY BE REDUCED IN THICKNESS TO 4" IF EXFILTRATION TRENCH IS PROPOSED UNDER STANDARD OR HEAVY DUTY ASPHALT.



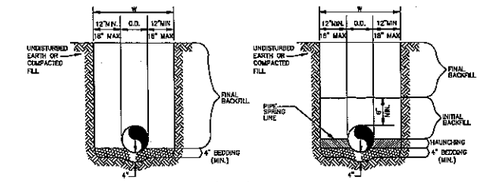
NOTE:
1. SEE PLAN FOR JOINT SPACING.

CONTRACTION JOINT

CONSTRUCTION JOINT



CONCRETE BOX CULVERT
N.T.S.



REINFORCED CONCRETE PIPE (RCP) AND SPIRAL RIB PIPE SMALLER THAN 60"ø

ALL OTHER PIPES INCLUDING SPIRAL RIB PIPE 60"ø AND LARGER

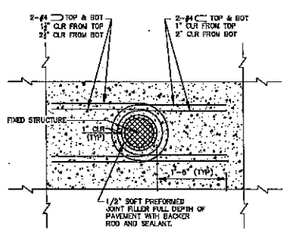
N.T.S.

GENERAL NOTES

1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 6" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 2321. CLASS IV AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

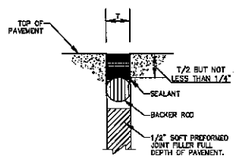
STORM SEWER TRENCH AND BEDDING
N.T.S.

DTRENCH | 12/20/04

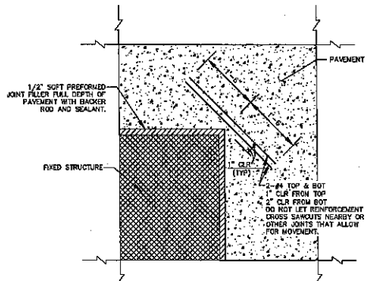


TYPICAL ROUND FIXED STRUCTURE PLAN DETAIL

USES: MANHOLES, LIGHT POLE BASES AND BOLLARDS

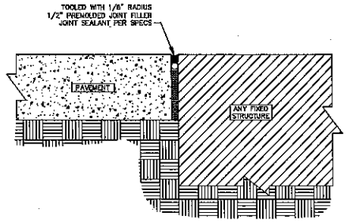


BACKER ROD AND SEALANT SECTION AT FIXED STRUCTURE



TYPICAL RECTANGULAR FIXED STRUCTURE PLAN DETAIL

USES: BUILDINGS, RETAINING WALLS/DOCK WALLS AND DROP INLETS



ISOLATION JOINT

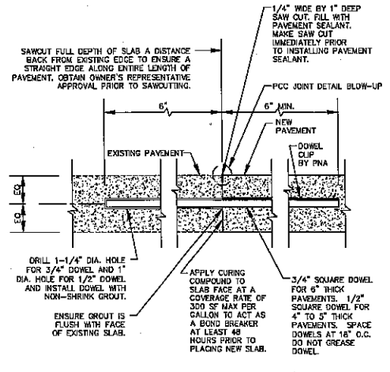
NOTES:

ISOLATION JOINT TO BE USED FOR FIXED STRUCTURES SUCH AS BUILDINGS, RETAINING WALLS/DOCK WALLS, DROP INLETS, MANHOLES, LIGHT POLE BASES AND BOLLARDS.

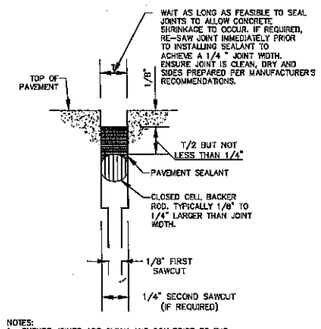
PAVEMENT IS NOT CONSIDERED A FIXED STRUCTURE.

ISOLATION JOINT DETAILS
N.T.S.

DTISOJNT | 12-04-08



CONSTRUCTION JOINT TO EXISTING PAVEMENT



NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
4. JOINT SEALANT APPLICATION SHALL BE IN STRICT CONFORMANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

PCC JOINT DETAIL BLOW-UP (TYP.)

CONCRETE JOINT DETAILS
N.T.S.

DTCONJNT | 03-02-12

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
4572 VINELAND ROAD, SUITE 200, ORLANDO, FL 32811
PHONE: 407-898-1511 FAX: 407-896-5553
WWW.KIMLEY-HORN.COM CA 00000696

CHRISTOPHER J. HOLLEN LICENSE 46889 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNS NOTED: DESIGNED BY CPD; DRAWN BY CPD; CHECKED BY CJH
FL LICENSE NUMBER 46889
DATE: 10/22/14

GRADING AND DRAINAGE DETAILS

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

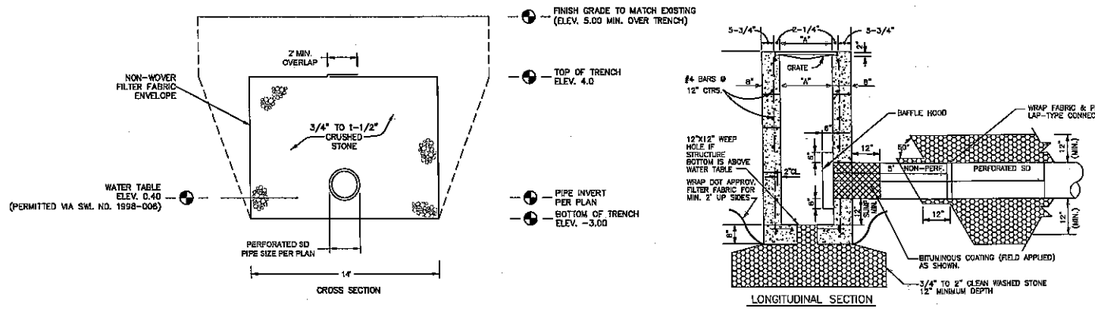
DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6320

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Patterson, John Sheet:*Set:Walmart-4563 – PH2 – Dania Beach Layout:6320 GRADING AND DRAINAGE DETAILS June 15, 2015 04:25:30pm K:\WB_LDEV\147253 – wal-mart\978 – dania – sheridan st & 5th ave\CAD\plansheets – ph2\6320 – GRADING AND DRAINAGE DETAILS – Ph2 – 4563.dwg

EXFILTRATION TRENCH - WIDE SECTION

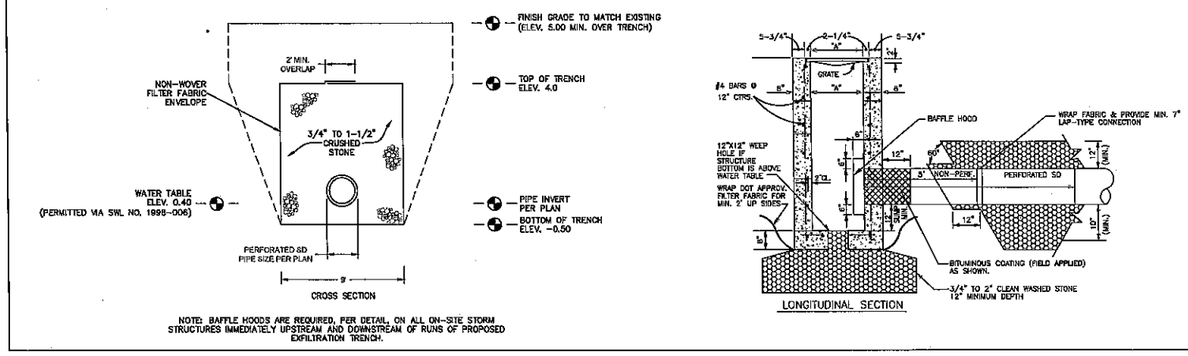
N.T.S - REFER TO PLAN FOR LOCATION OF WIDE SECTION



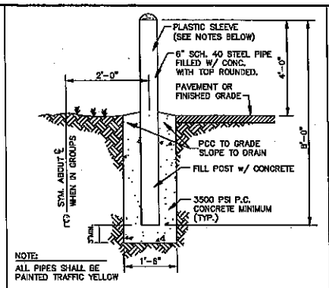
NOTE: BAFFLE HOODS ARE REQUIRED, PER DETAIL, ON ALL ON-SITE STORM STRUCTURES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF RUNS OF PROPOSED EXFILTRATION TRENCH.

EXFILTRATION TRENCH - NARROW SECTION

N.T.S - REFER TO PLAN FOR LOCATION OF NARROW SECTION



NOTE: BAFFLE HOODS ARE REQUIRED, PER DETAIL, ON ALL ON-SITE STORM STRUCTURES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF RUNS OF PROPOSED EXFILTRATION TRENCH.



SLEEVE NOTES:

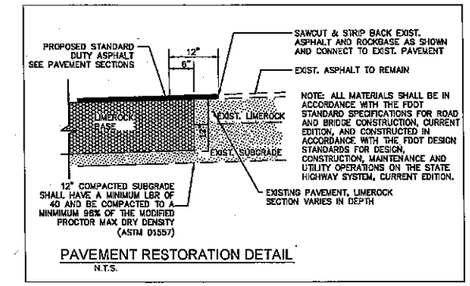
1. ALL EXISTING AND PROPOSED BOLLARDS SHALL BE COVERED WITH A PLASTIC SLEEVE.
2. THE SLEEVE SHALL BE A POLYETHYLENE THERMOPLASTIC (HDPE) MOLDED BOLLARD SLEEVE MANUFACTURED BY OTHER POST GUARD BY ENCORE (CONTACT: SUZANNE FITZPATRICK, 866-737-8900) OR IDEAL SHIELD (CONTACT: CHRIS PARENTI, 313-842-8290).
3. THE LENGTH OF THE BOLLARD SLEEVE MUST BE APPROPRIATE BASED ON THE DIAMETER OF THE BOLLARD.
4. THE COLOR OF THE BOLLARD SLEEVE SHALL BE YELLOW, UNLESS OTHERWISE SPECIFIED ON THE PLANS. PLEASE SEE ARCHITECTURAL PLANS FOR BOLLARDS IN THE FRONT SIDEWALK.
5. THE BOLLARD SLEEVE SHALL BE SECURED TO THE BOLLARD PER THE MANUFACTURER'S RECOMMENDATION.
6. WHERE THE BOLLARD SLEEVE IS TO BE INSTALLED OVER A BOLLARD USED AS A SIGN BASE, THE CONTRACTOR SHALL REMOVE THE SIGN(S) TO ALLOW THE BOLLARD TO FREELY SLIP OVER THE TOP OF THE EXISTING SIGN POST. THE TOP OF THE SIGN POST SHALL BE HEATED WITH A TORCH AND USED AS A "HOT KNIFE" TO PENETRATE THE END OF THE BOLLARD SLEEVE. BY UTILIZING THIS METHOD, A CLEAN, PROPERLY SIZED PENETRATION THROUGH THE BOLLARD SLEEVE CAN BE OBTAINED.

PIPE BOLLARD

N.T.S.

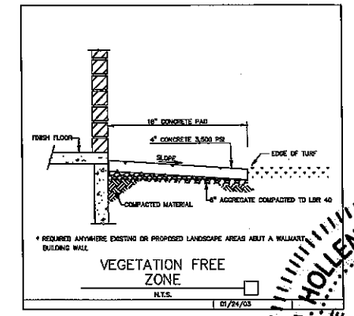
PROVIDED BY WALMART DOWNLOADED 6/8/10

DTGRDPST | 08/17/09



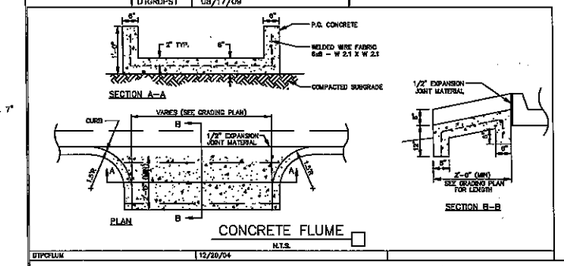
PAVEMENT RESTORATION DETAIL

N.T.S.



VEGETATION FREE ZONE

N.T.S. | 01/24/03



CONCRETE FLUME

N.T.S.

DTFCFLUM | 12/20/04

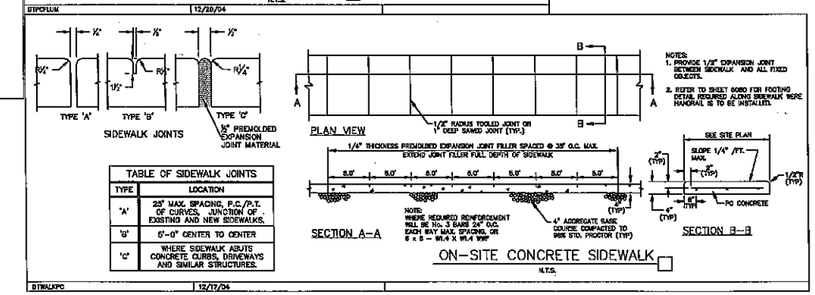
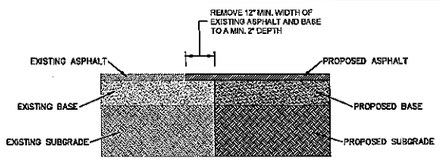


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	25' MAX. SPACING, P.C./P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.

ON-SITE CONCRETE SIDEWALK

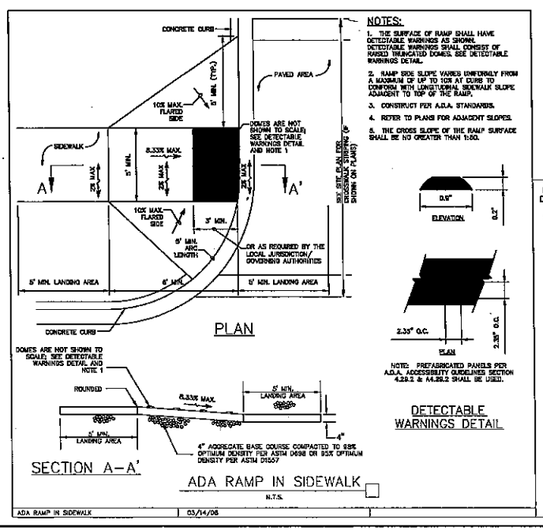
N.T.S.

DTWALKPC | 12/17/04

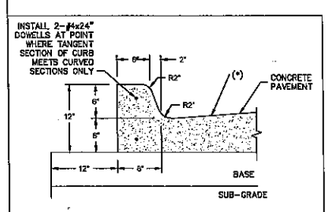


SAW-CUT DETAIL

N.T.S



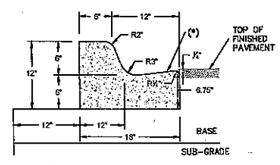
DETECTABLE WARNINGS DETAIL



* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS. ASPHALT SURFACE ON HIGH SIDE TO BE FLUSH WITH LIP OF CURB OR CURB & GUTTER.

INTEGRAL CURB AND GUTTER

N.T.S



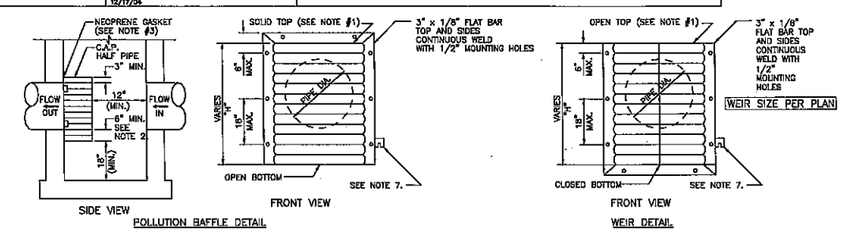
NOTE:
FULL DEPTH OF BASE NOTED IN STANDARD DUTY CONCRETE PAVEMENT SECTION DETAIL SHALL BE PLACED DIRECTLY UNDER CURB.

* WHEN USED ON HIGH SIDE OF ROADWAYS OR PERIMETER OF TRUCK CIRCLE AREA, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS. ASPHALT SURFACE ON HIGH SIDE TO BE FLUSH WITH LIP OF CURB OR CURB & GUTTER.

* FOR USE ON-SITE ONLY. REFER TO CITY DETAILS FOR CURB WITHIN RIGHT-OF-WAY.

MODIFIED TYPE "F" CURB DETAIL

N.T.S



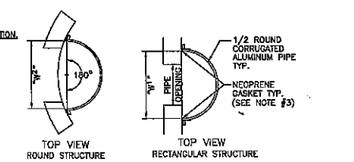
POLLUTION BAFFLE DETAIL

PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	38"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR BAFFLE OR BOTTOM FOR WEIR.
2. THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 0.5' BELOW CONTROL ELEVATION.
3. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
4. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
5. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
6. FIBERGLASS BAFFLES ARE NOT PERMITTED.
7. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES, SPACING TO MATCH HOLES IN FLAT BARS.



POLLUTION RETARDANT BAFFLE & WEIR DETAILS

N.T.S.

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
1777 NW 136 AVENUE, SUITE 200, WEST PALM BEACH, FL 33409
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

CHRISTOPHER J. HOLLEN LICENSE No. 74685 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL LICENSE NUMBER OF STATE PROFESSIONAL ENGINEER

DATE:

SCALE: AS NOTED
DESIGN: GN
DRAWN: DFD
CHECKED: CJH

GRADING AND DRAINAGE DETAILS

Walmart: STORE #4563-00
DANIA BEACH, FL.
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6321

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

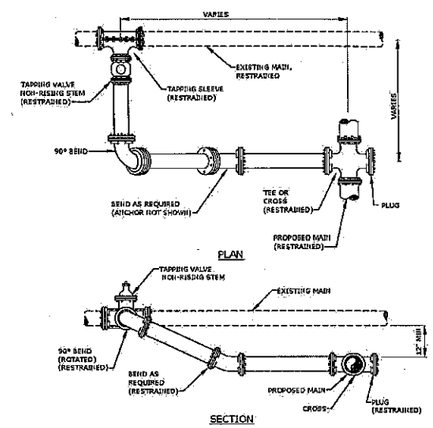
OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1) (4)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	3 ft. minimum	12 inches is the minimum, 18 inches is the preferred and 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
VACUUM SANITARY SEWER	10 ft. minimum	12 inches preferred 6 inches min.	Alternate 3 ft. minimum
GRAVITY SANITARY SEWER(3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	10 ft. preferred 6 ft. minimum	12 inches is the minimum, 18 inches preferred and 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft. minimum	—	—

(1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
(2) SEE CURRENT BROWARD COUNTY ENGINEERING PERMIT MANUAL FOR MORE INFORMATION.
(3) SEE CURRENT BROWARD COUNTY SANITARY SEWER MANUAL FOR MORE INFORMATION.
(4) 18" VERTICAL MINIMUM SEPARATION REQUIRED BY WWS, UNLESS OTHERWISE APPROVED.

REPLACES FORMER DWG NO.105 — REVISED 3/9/2012 — WATER MAIN SEPARATION — FIGURE 105

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL

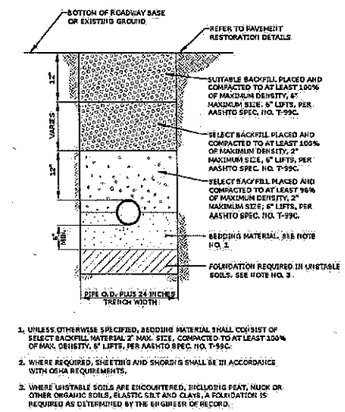


ALL JOINTS TO BE RESTRAINED BY APPROVED METHODS.

REPLACES FORMER DWG NO.131 — REVISED 2/23/2011 — TYPICAL CONNECTION TO EXISTING MAIN — FIGURE 131

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL

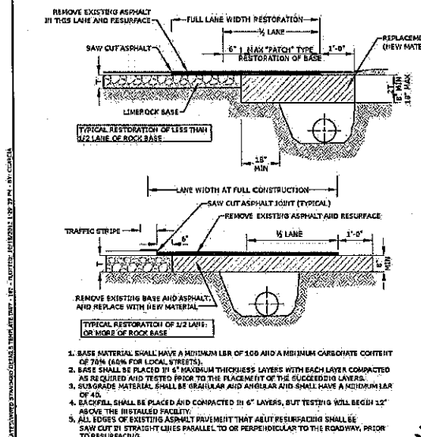


1. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAX. SIZE, COMPACTED TO AT LEAST 100% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C.
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER OF RECORD.

REPLACES FORMER DWG NO.180 — REVISED 2/23/2011 — TYPICAL TRENCH BACKFILL — FIGURE 180

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL

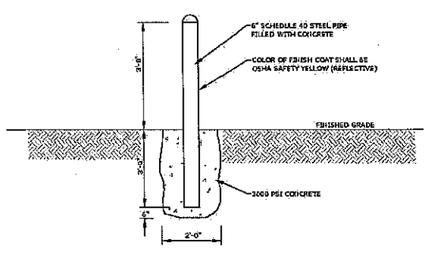


1. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS).
2. BASE SHALL BE PLACED IN 6" MAXIMUM THICKNESS LAYERS WITH EACH LAYER COMPACTED AS REQUIRED AND TESTED PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
3. SUBGRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
4. BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LAYERS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
5. ALL EDGES OF EXISTING ASPHALT PAVEMENT THAT ABUT RESURFACING SHALL BE SAW CUT IN STRAIGHT LINES PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO RESURFACING.
6. RESURFACING MATERIAL SHALL BE CONSISTENT WITH SURROUNDING SURFACE, AND SHALL BE APPLIED IN 2 LIFTS, A MINIMUM OF ½ INCH AND A MAXIMUM OF 1" IN THICKNESS.
7. TRAFFIC STRIPES SHALL NOT BE PLACED DIRECTLY ON TOP OF THE JOINT.
8. FOR STATE ROADS REFER TO FDOT SPECIFICATIONS AND REQUIREMENTS.

REPLACES FORMER DWG NO.19A — REVISED 2/23/2011 — RESTORATION OF ROADWAY CUT FOR PARALLEL UTILITY INSTALLATION — FIGURE 192

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

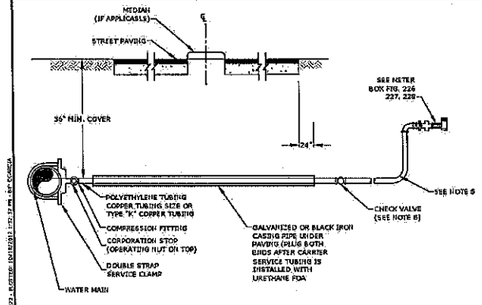
STANDARD DETAIL



REPLACES FORMER DWG NO.194 — REVISED 2/23/2011 — BOLLARD — FIGURE 194

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL



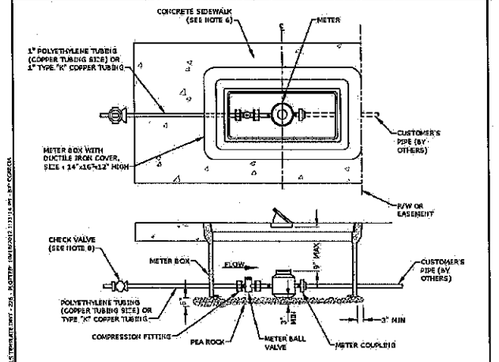
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. NO TAPS SHALL BE CLOSER THAN 18" TO A JOINT.
2. 1" SERVICES REQUIRE A 2" MINIMUM INSIDE DIAMETER CASING PIPE.
3. 2" SERVICES REQUIRE A 3" MINIMUM INSIDE DIAMETER CASING PIPE.
4. ALL CASING PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVED STREETS.
5. FOR 1" SERVICE LINES THE MINIMUM RADIUS SHALL BE 14'. FOR 2" SERVICE LINES THE MINIMUM RADIUS SHALL BE 25'.
6. ALL CASING PIPE ENDS SHALL BE FILED SMOOTH WITH NO BURRS AND SEALED WITH URETHANE FOAM.
7. THE POLYETHYLENE OR COPPER TUBING SHALL BE ONE CONTINUOUS PIECE FROM THE CORPORATION STOP TO THE CHECK VALVE. NO JOINTS WILL BE PERMITTED BETWEEN THESE POINTS.
8. THE CHECK VALVE IS TO BE INSTALLED 5 FEET BEFORE THE METER VALVE.

THIS DETAIL APPLIES ONLY TO COUNTY ARTERIAL AND COLLECTOR ROADS (70' TO 120' R/W) AND ALL STATE ROAD R/W

REPLACES FORMER DWG NO.1B — REVISED 2/23/2011 — TYPE 2 WATER SERVICE CONNECTION — FIGURE 222

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL



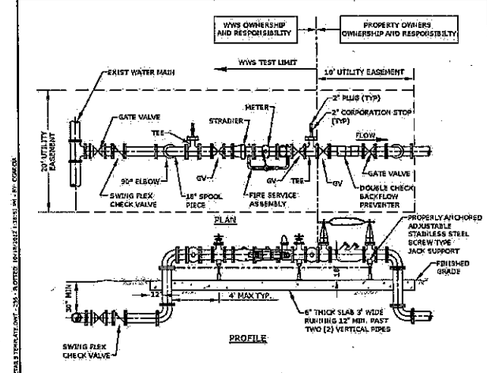
1. ALL STRUCTURES TO BE TRAFFIC BEARING TYPE.
2. R/W LINE OR EASEMENT LINE IS THE CUSTOMER'S SIDE OF METER BOX.
3. WWS RESPONSIBILITY ENDS AT THE CUSTOMER'S SIDE OF METER.
4. CURVE IN SERVICE LINE SHALL BE AS CLOSE TO METER BOX AS PRACTICAL, WITH A MINIMUM RADIUS SHALL BE 14" FOR 1" TUBING.
5. ALL METERS WILL BE SUPPLIED AND INSTALLED BY WWS. METER HAS IRON PIPE THREAD MALE CONNECTION ON EACH END.
6. WHEN SIDEWALK'S ARE PRESENT, OR PLANNED FOR IN THE R/W, THE BACK EDGE OF THE METER BOX SHALL LINE UP WITH THE BACK EDGE OF THE SIDEWALK.
7. METER SHALL BE CENTERED IN BOX DIRECTLY UNDER THE ACCESS LID.
8. THE CHECK VALVE IS TO BE INSTALLED 5 FEET BEFORE THE METER BALL VALVE.
9. WHEN THERE ARE NO SIDEWALKS, CONSTRUCT 6" WIDE x 6" THICK CONCRETE COLLAR AT GRADE.

METER SIZE	LAYING LENGTH (D)	HEIGHT (H)
¾"	7.5	4.56
1"	10.75	5.75

REPLACES FORMER DWG NO.3A — REVISED 2/23/2011 — WATER METER INSTALLATION FOR ⅝" AND 1" METERS — FIGURE 226

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33064 — PHONE NO. 954-831-0745, FAX: 954-831-0928

STANDARD DETAIL



1. THE DOUBLE CHECK VALVE SHALL BE PRIVATELY OWNED BY THE PROPERTY OWNER.
2. WWS RESPONSIBILITY IS BETWEEN WATER MAIN AND METER.
3. EASEMENT SHALL BE PROVIDED IN ACCORDANCE WITH WWS MINIMUM REQUIREMENTS.
4. ALL ABOVE GROUND PIPE SHALL BE PAINTED, DI (DUCTILE IRON) TYPE.
5. ALL PIPE LEADING FROM WATER MAIN TO FLANGED FITTING SHALL BE D.I. TYPE, RESTRAINED JOINTS.
6. ALL ABOVE GROUND PIPING, FITTINGS, GATE VALVES AND CHECK VALVES AND THE METER ASSEMBLY SHALL BE PAINTED WITH POLYURETHANE COATING (BLUE).

COMBINED DOMESTIC WATER SERVICE AND FIRE PROTECTION

REPLACES FORMER DWG NO.9B — REVISED 2/23/2011 — TYPE 2 PRIVATE FIRE PROTECTION 4", 6" AND 8" DIAMETER CONNECTION — FIGURE 236

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Kimley»Horn — KIMLEY-HORN AND ASSOCIATES, INC. — 1777 SOUTH BAYSHORE DRIVE, SUITE 200, MIAMI, FL 33133 — PHONE: 305-672-2001 FAX: 305-672-2027 — WWW.KIMLEY-HORN.COM — CA 00000696

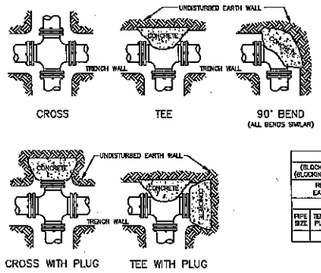
CHRISTOPHER J. HOLLEN — No. 74685 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SCALE: NOT USED — DESIGN SUPERVISOR: CHRISTOPHER J. HOLLEN, P.E. — DESIGNED BY: DPD — DRAWN BY: DPD — CHECKED BY: CJH — FL LICENSE NO. 74685

UTILITY DETAILS

Walmart: STORE #4563-00 — DANIA BEACH, FL — WAL-MART STORES EAST, LP — DANIA BEACH — FL

DATE 10/22/14 — PROJECT NO. 147253678 — SHEET NUMBER 6340



HORIZONTAL THRUST BLOCKING						
(BLOCKING HEIGHT GREATER THAN PIPE O.D.) (BLOCKING WIDTH BETWEEN 1 & 2 TIMES HEIGHT)						
REQUIRED SQ. FT. OF UNDISTURBED EARTH WALL FOR REACTION BACKING						
PIPE SIZE	TEE & PLUG	TYPE OF FITTINGS				
		BENDS				
		90°	45°	22½°	11¼°	

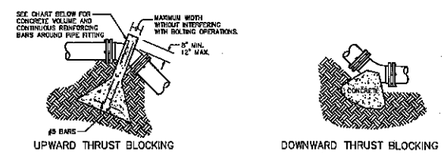
NOTES:

1. DO NOT COVER BOLTS OR FLANGES WITH CONCRETE
2. WRAP ALL FITTINGS WITH VISQUEEN.
3. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
4. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
5. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL SHALL BE BACKED.
6. REACTION BACKING TABLE IS BASED ON _____ P.S.I. AND SOIL BEARING PRESSURE OF _____ lb./sq.ft. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY ENGINEERS.
7. ALL CONCRETE SHALL BE 2500 P.S.I.
8. 18" AND LARGER REQUIRES SPECIFIC ANTI-THRUST DESIGN.

HORIZONTAL THRUST BLOCKING

N.T.S.

DETAILER | 12/21/04



UPWARD THRUST BLOCKING															
(REQUIRED REINFORCING BARS & CUBIC YARDS OF P.C. CONCRETE															
	90° BEND			45° BEND			22½° BEND			11¼° BEND					
PIPE SIZE	CONC. C.Y.	REINF. QTY.	REINF. SIZE	CONC. C.Y.	REINF. QTY.	REINF. SIZE	CONC. C.Y.	REINF. QTY.	REINF. SIZE	CONC. C.Y.	REINF. QTY.	REINF. SIZE			

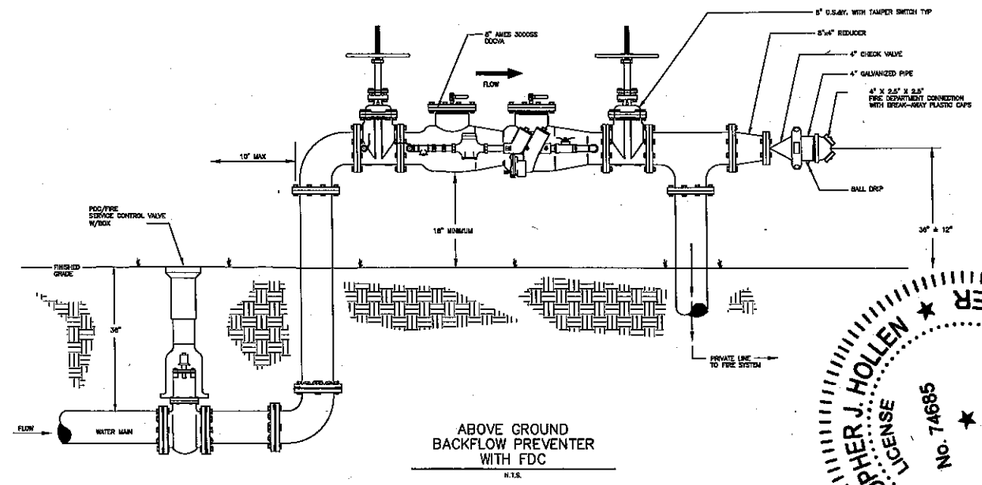
NOTES:

1. DO NOT COVER BOLTS OR FLANGES WITH CONCRETE
2. WRAP ALL FITTINGS WITH VISQUEEN.
3. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
4. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
5. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL SHALL BE BACKED.
6. REACTION BACKING TABLE IS BASED ON _____ P.S.I. AND SOIL BEARING PRESSURE OF _____ lb./sq.ft. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY ENGINEERS.
7. ALL CONCRETE SHALL BE 2500 P.S.I.
8. 18" AND LARGER REQUIRES SPECIFIC ANTI-THRUST DESIGN.

VERTICAL THRUST BLOCKING

N.T.S.

DTTHRUSTVR | 12/04/01



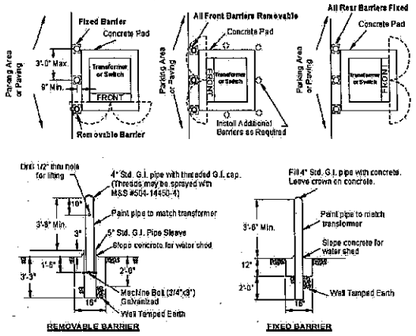
ABOVE GROUND BACKFLOW PREVENTER WITH FDC

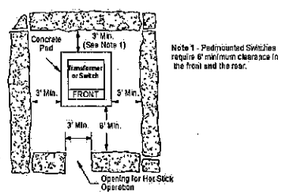
N.T.S.

FPL | Electric Service Standards | DATE 06-29-07

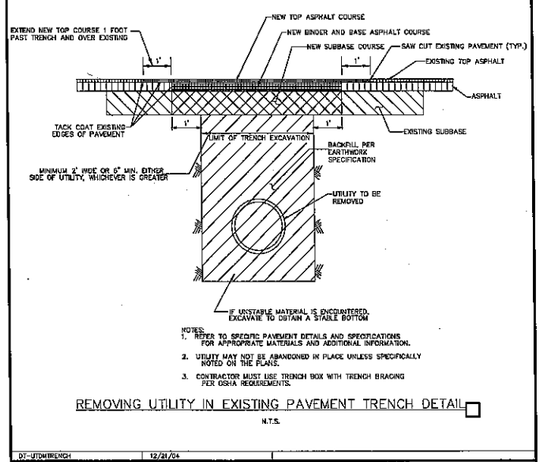
PREPARED BY: Distribution Construction Processes | SUBJECT: V. REQUIREMENTS FOR TRANSFORMERS SITUATED ON CUSTOMER PROPERTY | SECTION:PAGE V: 3 of 5

FIGURE V-1
PROTECTIVE BARRIER AND PLANTING CLEARANCES FOR PADMOUNTED TRANSFORMERS AND SWITCHES





© 2007, Florida Power & Light Company



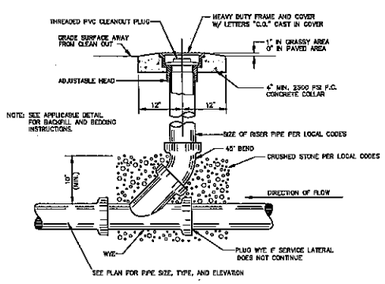
NOTES:

1. REFER TO SPECIFIC PAVEMENT DETAILS AND SPECIFICATIONS FOR APPROPRIATE MATERIALS AND ADDITIONAL INFORMATION.
2. UTILITY MAY NOT BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED ON THE PLANS.
3. CONTRACTOR MUST USE TRENCH BOX WITH TRENCH BRACING PER OSHA REQUIREMENTS.

REMOVING UTILITY IN EXISTING PAVEMENT TRENCH DETAIL

N.T.S.

DT-UTDWTRENCH | 12/21/04

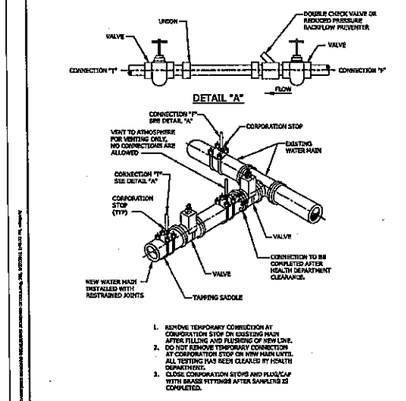


SANITARY SEWER CLEAN-OUT

N.T.S.

DTSSCOUT | 12/04/01

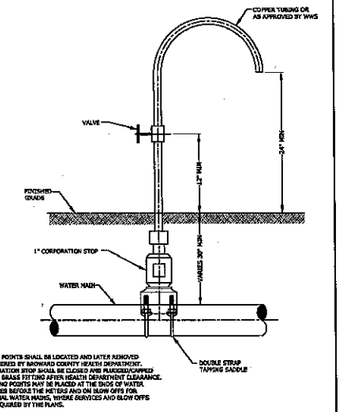
BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES DIVISION | STANDARD DETAIL



1. REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW LINE.
2. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN CLEARED BY HEALTH DEPARTMENT.
3. CLOSE CORPORATION STOPS AND PLUG/CAP WITH BRASS FITTINGS AFTER SAMPLING IS COMPLETED.

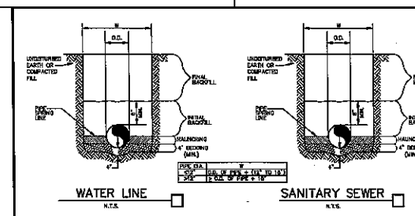
REPLACES FORMER DWG NO.7	FILLING AND FLUSHING CONNECTION	FIGURE 205
REVISED 2/23/2011		

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES DIVISION | STANDARD DETAIL



1. SAMPLE POINTS SHALL BE LOCATED AND LATER REMOVED AS REQUIRED BY BROWARD COUNTY HEALTH DEPARTMENT.
2. CORPORATION STOP SHALL BE CLOSED AND PLUGGED/CAPPED WITH A BRASS FITTING AFTER HEALTH DEPARTMENT CLEARANCE.
3. SAMPLING POINTS MAY BE PLACED AT THE ENDS OF WATER SERVICES BEFORE THE METERS AND BLOW OFFS FOR TERMINAL WATER MAINS, WHERE SERVICES AND BLOW OFFS ARE REQUIRED BY THE PLANS.

REPLACES FORMER DWG NO.6	SAMPLING POINT	FIGURE 206
REVISED 2/23/2011		



WATER LINE

N.T.S.

SANITARY SEWER

N.T.S.

GENERAL NOTES

1. BEDDING SHALL BE CLASS I-A BORRED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 95% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 95% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A BORRED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 90% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS II AND III-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL BALANCED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, BACKED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

UTILITY TRENCH AND BEDDING

N.T.S.

DT-UTTRN | 12/21/04

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Noted By:Patterson, John Sheet Set:Walmart-4563 - Ph2 - Dania Beach Layout:6341 UTILITY DETAILS June 15, 2015 04:26:05pm K:\WRB_LDEV\047253 - wal-mart\678 - dania - sheridan st & 5th ave\CAD\plansheets - ph2\6341 - UTILITY DETAILS - Ph2 - 4563.dwg

CHRISTOPHER J. HOLLEN ★ LICENSE ★ No. 74685 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

JUN 17 2015

Kimley»Horn

© 2015 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
PH: 561-562-7700 FAX: 561-562-7701
WWW.KIMLEY-HORN.COM CA 00000696

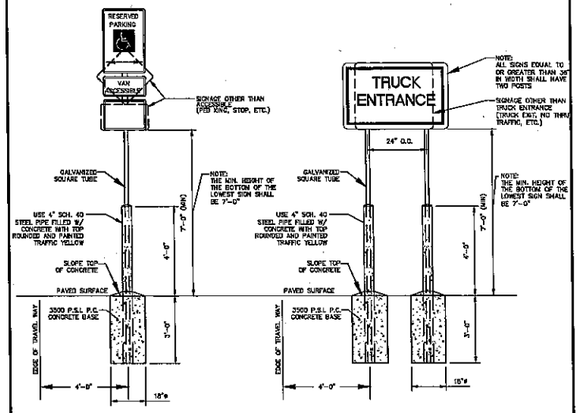
DESIGN ENGINEER: Christopher J. Hollen, P.E.
FL LICENSE NUMBER: 74685
DATE:

SCALE: AS NOTED
DESIGNED BY: DFD
DRAWN BY: DFD
CHECKED BY: CJH

UTILITY DETAILS

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE: 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6341

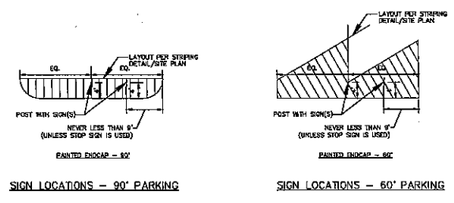


SINGLE POST
N.T.S.

DOUBLE POST
N.T.S.

NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

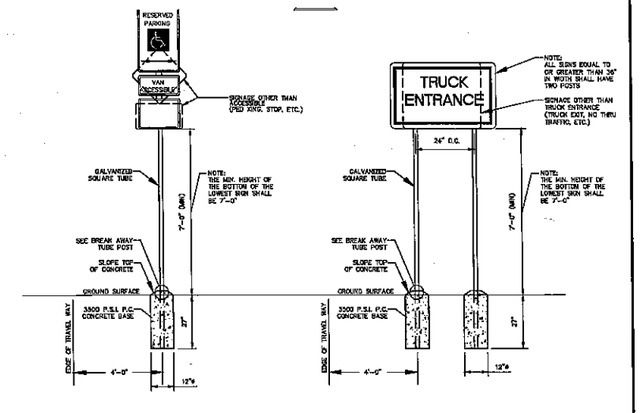
   POST TUBES – 2"x2"x3/16" 12ga
   POST TUBE SHALL MEET ASTM A1011 GRADE 50.
   POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.



SIGN LOCATIONS – 90' PARKING

SIGN LOCATIONS – 60' PARKING

SIGN MOUNTING AND BASE WITH BOLLARD
(USE WHERE SIGN IS NOT WITHIN CURBED ISLAND)
N.T.S.



SINGLE POST
N.T.S.

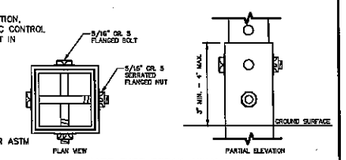
DOUBLE POST
N.T.S.

NOTES:
1. ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. GALVANIZED SQUARE TUBE

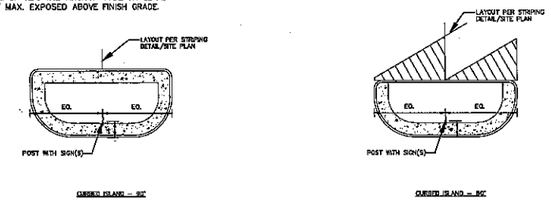
   POST TUBES – 2"x2"x3/16" 12ga
   POST TUBE SHALL MEET ASTM A1011 GRADE 50.
   POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

   ANCHOR TUBE – 2-1/4"x2-1/4"x3/16" 12ga
   HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B.
   STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

   THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.



SQUARE TUBE BREAK AWAY POST
N.T.S.

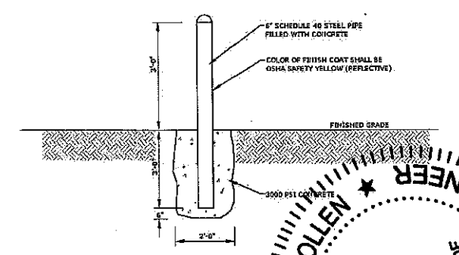


SIGN LOCATIONS – 90' PARKING

SIGN LOCATIONS – 60' PARKING

SIGN MOUNTING AND BASE WITHOUT BOLLARD
(USE WHERE SIGN IS WITHIN CURBED ISLAND)
N.T.S.

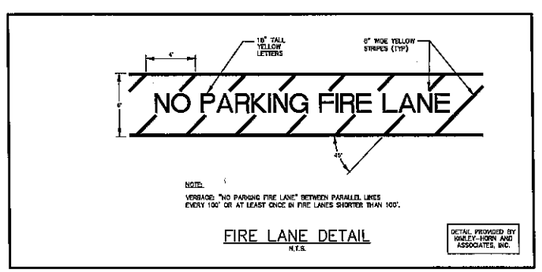
SIGN MOUNTING AND BASE
N.T.S.



BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33065

STANDARD DETAIL

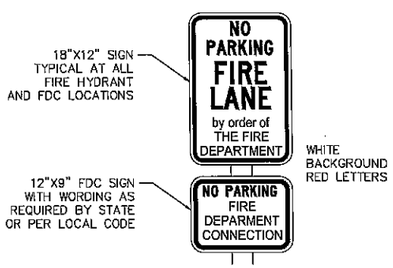
REPLACES FORMER DWG NO.194	BOLLARD	FIGURE 194
REVISED. 2/23/2011.		



NOTE:
VERBIAGE: "NO PARKING FIRE LANE" BETWEEN PARALLEL LINES EVERY 100' OR AT LEAST ONCE IN FIRE LANES SHORTER THAN 100'.

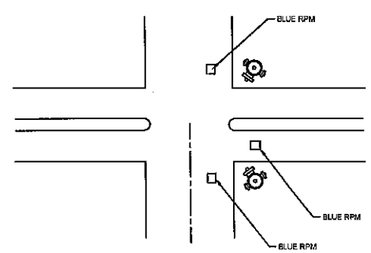
FIRE LANE DETAIL
N.T.S.

DETAIL PROVIDED BY KIMLEY-HORN AND ASSOCIATES, INC.



ALL SIGN LETTERS TO COMPLY WITH STANDARD ALPHABETS FOR HIGHWAY SIGNS (SERIES C 2000)

"FDC – FIRE LANE" SIGN
N.T.S.

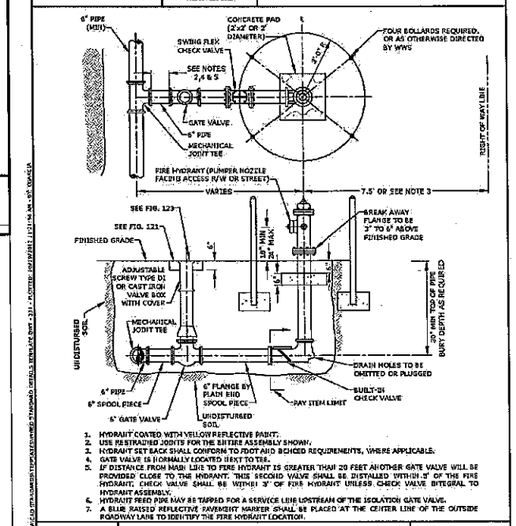


ROAD PAVEMENT MARKERS
N.T.S.

1. PROVIDE ONE (1) BLUE DOUBLE-REFLECTIVE DEPARTMENT OF TRANSPORTATION TYPE ROAD MARKER. ROADWAY PAVEMENT MARKER (RPM) TO BE ADHERED TO THE HARD SURFACE OF THE ROADWAY IN THE MIDDLE OF THE LANE NEAREST TO, AND DIRECTLY IN FRONT OF EACH NEWLY INSTALLED FIRE HYDRANT.

BROWARD COUNTY PUBLIC WORKS DEPARTMENT — WATER & WASTEWATER SERVICES, ENGINEERING DIVISION, 2555 WEST COPANS ROAD, POMPANO BEACH, FL 33065

STANDARD DETAIL



1. HYDRANT COATED WITH YELLOW REFLECTIVE PAINT.
2. USE RESTRAINED JOINTS FOR THE ENTIRE ASSEMBLY SHOWN.
3. HYDRANT SET BACK SHALL CONFORM TO FDOT AND BCHCED REQUIREMENTS, WHERE APPLICABLE.
4. GATE VALVE IS NORMALLY LOCATED NEXT TO TEE.
5. IF DISTANCE FROM MAIN LINE TO FIRE HYDRANT IS GREATER THAN 20 FEET ANOTHER GATE VALVE WILL BE PROVIDED CLOSE TO THE HYDRANT. THIS SECOND VALVE SHALL BE INSTALLED WITHIN 3' OF THE FIRE HYDRANT. CHECK VALVE SHALL BE WITHIN 3' OF FIRE HYDRANT UNLESS CHECK VALVE INTEGRAL TO HYDRANT ASSEMBLY.
6. HYDRANT FEED PIPE MAY BE TAPPED FOR A SERVICE LINE UPSTREAM OF THE ISOLATION GATE VALVE.
7. A BLUE RAISED REFLECTIVE PAVEMENT MARKER SHALL BE PLACED AT THE CENTER LINE OF THE OUTSIDE ROADWAY LANE TO IDENTIFY THE FIRE HYDRANT LOCATION.

REPLACES FORMER DWG NO.8	FIRE HYDRANT INSTALLATION	FIGURE 231
REVISED 10/18/2012		

STATE OF FLORIDA — CHRISTOPHER J. HOLLEN — LICENSE No. 74685 — PROFESSIONAL ENGINEER

Kimley»Horn
© 2015 KIMLEY-HORN AND ASSOCIATES, INC.
4615 24TH STREET, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

DESIGN ENGINEER: CHRISTOPHER J. HOLLEN, P.E. — FL LICENSE NUMBER 74685 — DATE JUN 17 2015

SCALE AS NOTED | DESIGNED BY DFD | DRAWN BY DFD | CHECKED BY CJH

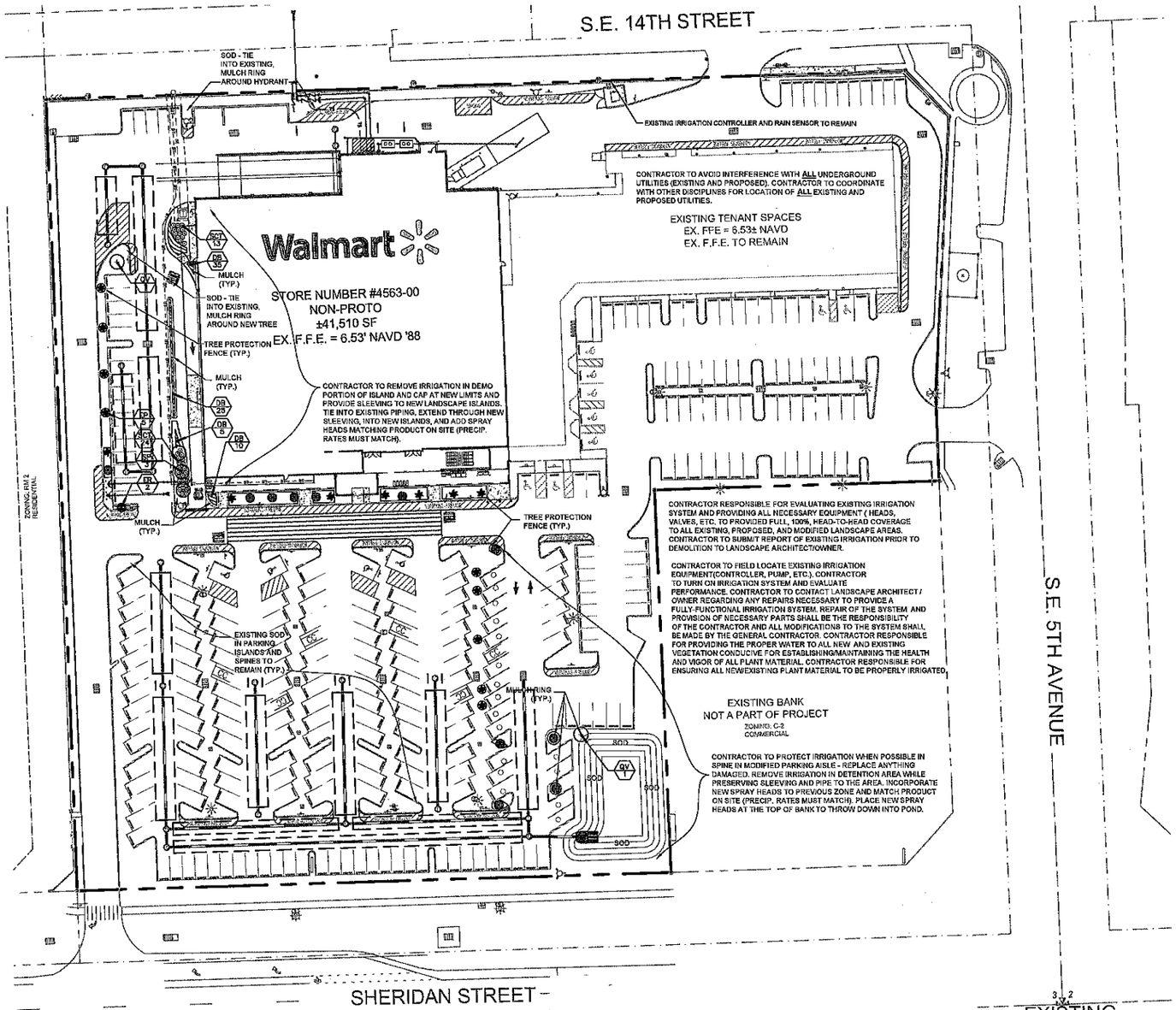
FIRE UTILITY DETAILS

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6342

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By:Patterson, John Sheet Sp:Walmart-4563 – Ph2 – Dania Beach Layout:6342 FIRE UTILITY DETAILS June 15, 2015 04:26:19pm K:\WRD_LDEV\047253 – wal-mart\078 – dania – sheridan st & 5th ave\CAD\plansheets – ph2\6342 – FIRE UTILITIES DETAILS – Ph2 – 4563.dwg



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	SPECIFICATIONS	REMARKS
	EP	16	Existing Palm To Remain	Protect in Place	Contractor Liable for Damage
	ER	12	Existing Tree To Remain	Protect in Place	Contractor Liable for Damage
	QV	2	Quercus Virginiana / Southern Live Oak	3" cal, 12'-14' ht	Straight, Single Leader, Full

PALM TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	SPECIFICATIONS	REMARKS
	SP	3	Sabal palmetto / Palmetto	6' CT	Straight, Full, Hurricane Cut

SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	SPECIFICATIONS	REMARKS
	SCT	37	Schefflera arboricola 'Trinette' / Trinette Arbicola	24"x24", 36" o.c.	Full, Variegated

GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	SPECIFICATIONS	SPACING	REMARKS
	DB	75	Dianella tasmanica 'Blueberry' / Blueberry Flax Lily	14" Ht., 14" Spr., 24" O.C.	24" o.c.	Full, Variegated

MISCELLANEOUS			
SYM	QTY	BOTANICAL/COMMON	SPECIFICATIONS
SOD	TBD	Paspalum notatum 'Argentine'/Argentine Bahia Grass	100% Insect/disease/weed free, laid tight, rolled.
MULCH	TBD	Bulk/Bag Mulch	4" layer of Shredded Grade 'B' Florimulch or equivalent at all planting beds, and as indicated on plans.

NOTE: PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF A DISCREPANCY, THE DRAWING SHALL TAKE PRECEDENCE.

NOTE: PLANTS ARE SPECIFIED BY HEIGHT AND SPREAD, NOT CONTAINER SIZE. ALL PLANTINGS ARE EXPECTED TO BE FLORIDA #1 AND MEET ALL SPECIFICATIONS PROVIDED.

LANDSCAPE NOTES:

1. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL. SEE 2900 SPECIFICATION.
2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
4. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED.
5. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
6. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
7. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATION OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE PERIOD OF TIME SHOWN IN THE 02900 SPEC.
12. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
13. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD DEFINED IN THE 02900 SPEC. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
14. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
15. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
16. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A HARDWOOD MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER TO A MINIMUM DEPTH OF FOUR INCHES.
17. REFER TO WALMART SPECIFICATIONS FOR INFORMATION NEEDED FOR IMPLEMENTATION OF PLANTING PLANS.
18. WEED MAT IS REQUIRED IN LANDSCAPED ISLANDS, FOUNDATION PLANTERS AND MULCHED BEDS AS SPECIFIED.
19. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
20. THIS PLAN IS TO BE IMPLEMENTED COOPERATIVELY WITH SWPPP PLAN, AS NEEDED, TO MAXIMIZE THE EFFECTIVENESS OF THE SWPPP PLAN FOR THIS SITE.
21. THE CONTRACTOR IS ENCOURAGED TO COMPLETE TEMPORARY OR PERMANENT SEEDING OR SODDING IN STAGES FOR SOIL STABILIZATION AS AREAS ARE COMPLETED AFTER GRADING.
22. THIS PLAN DOES NOT PRESENT ANY TEMPORARY STABILIZATION REQUIRED AS PART OF SWPPP PLAN.
23. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
24. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
25. EXISTING TREES TO BE CORRECTIVELY PRUNED BY A CERTIFIED ARBORIST TO ULTIMATELY ACHIEVE FLORIDA NUMBER ONE GRADE WITH THE DIRECTION OF THE LANDSCAPE ARCHITECT.
30. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
31. CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE WILL NOT ALLOW SYSTEM MODIFICATION TO BE POSSIBLE.
32. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
33. WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
34. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
35. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
36. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
37. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
38. CONTRACTOR TO PROVIDE PERMANENT BENCH-MARKS ON ALL CURB LINES AT RELATED SLEEVE LOCATIONS (TYP).
39. A TREE REMOVAL PERMIT WILL BE REQUIRED, BEFORE THE DEMOLITION OF ANY ONSITE TREES.

TREE MITIGATION PER DANIA BEACH (ARTICLE 825):

TREES REMOVED:

(2) QUEEN PALMS - CATEGORY 4 - 100 SF CANOPY
(1) SABAL PALM - CATEGORY 3 - 100 SF CANOPY
(3) WASHINGTON PALMS - CATEGORY 3 - 300 SF CANOPY

(6) TOTAL PALMS - CATEGORY 3/4 - 500 SF TOTAL CANOPY

MITIGATION TREES PROVIDED:

(1) QUERCUS VIRGINIANA - CATEGORY 1 - 500 SF CANOPY
(3) SABAL PALM - CATEGORY 3 - 300 SF CANOPY

(3) CATEGORY 3 PALMS / (1) CATEGORY 1 TREE - 800 SF TOTAL CANOPY

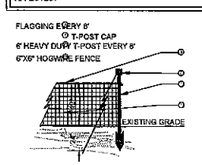
BUILDING AREA:

EXISTING BUILDING AREA	= 68,370 SF
PROPOSED BUILDING AREA	= 68,370 SF

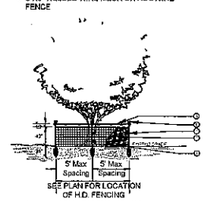
VEHICULAR USE AREA:

EXISTING VUA	= 163,482 SF
VUA TO BE REMOVED	= 7,224 SF
VUA TO BE ADDED	= 2,392 SF
VUA MODIFICATION TOTAL	= 9,616 SF (5.88% CHANGE IN VUA)
PROPOSTED TOTAL VUA	= 158,650 SF

NOTE: ALL TREES ARE TO BE PROTECTED FROM DAMAGE. NO VEHICULAR PARKING, STORAGE OF MATERIALS OR EQUIPMENT, CLEANING OF EQUIPMENT, EQUIPMENT WASH OUT OR ANY OTHER ACTION WHICH MAY CAUSE AN ADVERSE AFFECT ON EXISTING OR FUTURE PLANTING IS TO OCCUR IN OR AROUND TREES IN LANDSCAPE AREAS WHICH MAY BE AFFECTED.



LITE-DUTY TREE PROTECTION FENCE ENLARGEMENT
SECTION N.T.S



TREE PROTECTION DETAIL
SECTION N.T.S

NOTES:

1. TREES PROPOSED FOR RELOCATION ARE TO BE PROPERLY WATERED PRIOR TO RELOCATION AND THE PROPER ROOT BALL DIAMETER BASED ON THE TREES TRUNK DIAMETER(SPECIFIED BELOW) TO BE ROOT PRUNED, PROPER STAKING, WATERING AND PROTECTION IS REQUIRED AND ANSI A300 AND Z60.1 SPECIFICATIONS REFERENCED FOR COMPLIANCE.
2. TREES TO BE RELOCATED ARE REQUIRED TO HAVE THEIR ROOTS PRUNED 8 WEEKS PRIOR TO BEING RELOCATED.
3. TREES TO BE RELOCATED MAY BE MOVED ONLY ONCE FROM THEIR EXISTING SPOT TO A FINAL LOCATION. NO NURSERY OR HOLDING AREAS ARE ALLOWED.
4. ALL TREE WORK TO BE PERFORMED BY ACCREDITED ARBORIST
5. PROPER GRADING TO TAKE PLACE AT FINAL RELOCATION AREAS TO BE DONE PRIOR TO RELOCATION.
6. TEMPORARY IRRIGATION TO BE PREPARED PER SPECIFICATIONS FOR RELOCATED TREES PRIOR TO MOVE.
7. NO DEMOLITION TO OCCUR IN CLOSE PROXIMITY OF RELOCATED TREES PRIOR TO ROOT PRUNING/ FENCING.
8. THE FOLLOWING PRUNING TECHNIQUES ARE TO BE PERFORMED BY A CERTIFIED ARBORIST: DEAD-WOOD PRUNING/ DAMAGED LATERAL PRUNING, CROSS BRANCH PRUNING, RAISING OF CANOPY (AS SPECIFIED) FOR SITE LINE/LIGHT IMPROVEMENT FOR INDUSTRY (AS SPECIFIED).
9. ADEQUATE WATER THROUGH CONSTRUCTION WITH TEMPORARY/ PERMANENT WATERING SYSTEM.
10. MAINTENANCE OF TREE PROTECTION FENCING UNTIL GRAND OPENING OR APPROVAL IN WRITING TO REMOVE FENCING BY LANDSCAPE ARCHITECT.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS AND TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.

EXISTING SOD WITHIN PARKING LOT ISLANDS TO REMAIN, UNLESS PARKING ISLANDS ARE DISTURBED BY CONSTRUCTION. IN THE EVENT OF ISLAND DISTURBANCE, PARKING ISLANDS SHALL BE RESTORED PER THE 02900 SPECIFICATION WITH WEED MAT AND MULCH STABILIZATION.

NOTE: ALL PROPOSED LANDSCAPE PLANTING AREAS TO BE EXCAVATED TO A MINIMUM DEPTH OF 24" AS NECESSARY TO CONTAIN APPROPRIATE PLANTING MIX AS SPECIFIED IN SECTION 2900, PART 2.5 TOPSOIL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITIES, IRRIGATION LINES, WIRING, STRUCTURES, LANDSCAPE, ETC. WHICH ARE SCHEDULED TO BE RETAINED/ REUSED.

WEED MAT IS TO BE UTILIZED WITHIN ALL PROPOSED, MULCHED PLANTING BEDS PER SPECIFICATIONS, SECTION 2900, 2.14 A.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

811 Know what's below. Call before you dig.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.
2. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

No.	REVISIONS	DATE

Kimley»Horn
© 2015 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM CA: 00000696

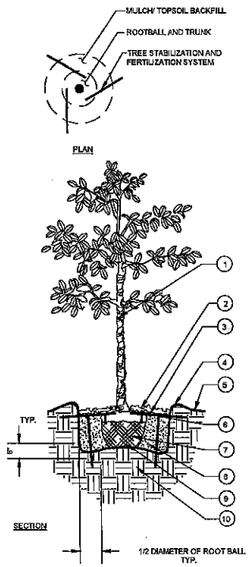
SCALE NOTED
DESIGNED BY MTF
DRAWN BY MTF
CHECKED BY DAS
FL LICENSE NUMBER 14677
DATE: 2014 10 17

LANDSCAPE PLAN

Walmart STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER 6500

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



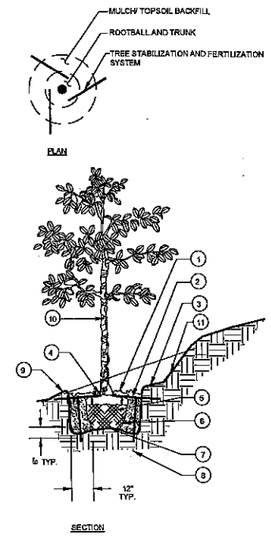
1. TREE WRAP.
2. 4" MINIMUM OF HARDWOOD MULCH COMPACTED OR AS SPECIFIED.
3. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. FINISHED GRADE (SEE GRADING PLAN).
6. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
7. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED SUBSOIL.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.

LARGE TREE PLANTING (14' OR GREATER)

NTS



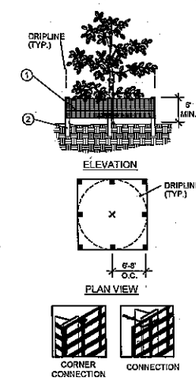
1. 4" MINIMUM OF HARDWOOD MULCH COMPACTED OR AS SPECIFIED.
2. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.
3. BACKFILL WITH TOPSOIL IN ACCORDANCE WITH THE PLANTING SPECIFICATION.
4. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
5. B&B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
6. PREPARE PLANTING SOIL AS SPECIFIED.
7. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
8. UNDISTURBED SUBSOIL.
9. 3" HIGH SOIL BERM TO HOLD WATER.
10. TREE WRAP.
11. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.

TREE PLANTING ON SLOPE

NTS



1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

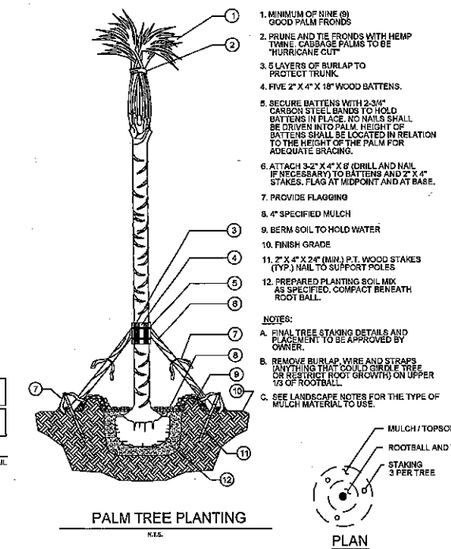
A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/4 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 8' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.
C. SPACE POSTS EVERY 8' (MIN.) TO 8' (MAX.).
D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

NOTE: UTILIZE TREE PROTECTION FENCE DETAILS ON TREE INVENTORY PLAN FOR EXISTING TREE PROTECTION

TREE/SHRUB PROTECTOR

NTS — BARRIER DETAIL



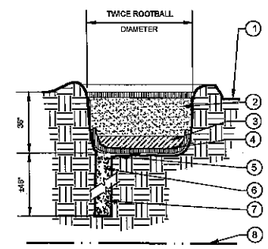
1. MINIMUM OF NINE (9) GOOD PALM FRONDS
2. PRUNE AND TIE FRONDS WITH HEMP TWINE. CABBAGE PALMS TO BE "HURRICANE CUT"
3. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
4. FIVE 2" X 4" X 18" WOOD BATTENS.
5. SECURE BATTENS WITH 2-3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
6. ATTACH 3-2" X 4" X 8' (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. FLAG AT MIDPOINT AND AT BASE.
7. PROVIDE FLAGGING
8. 4" SPECIFIED MULCH
9. BERM SOIL TO HOLD WATER
10. FINISH GRADE
11. 2" X 4" X 2'-6" (MIN.) P.T. WOOD STAKES (TYP.) NAIL TO SUPPORT POLES
12. PREPARED PLANTING SOIL MIX AS SPECIFIED. COMPACT BENEATH ROOT BALL.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

PALM TREE PLANTING

NTS

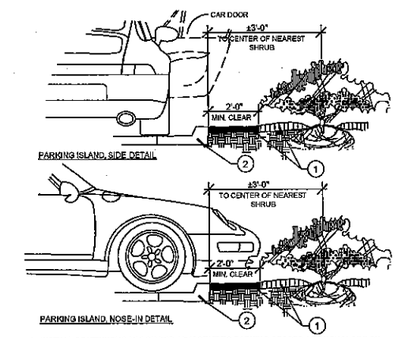


1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. 12", CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT EAST 1" ABOVE FINISHED GRADE.
4. FILTER CLOTH
5. SLOPE BOTTOM TO DRAIN
6. 18"+ AUGERED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" - 3/4" GRAVEL.
8. WATER TABLE

FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.

POOR DRAINAGE CONDITION

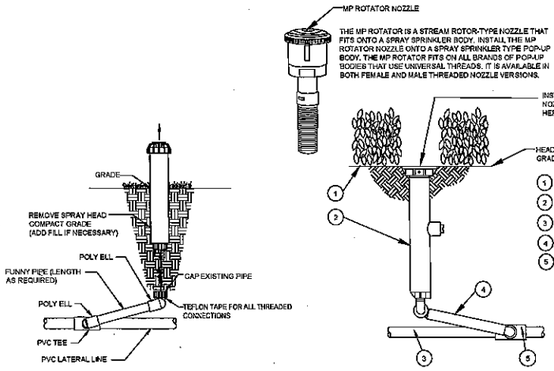
NTS — SECTION



1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 4" DEEP.
   NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
2. CURB OR PARKING LOT EDGE, BY OTHERS

PARKING SPACE/CURB PLANTING

NTS — SECTION



REMOVE HEAD AND CAP PIPE

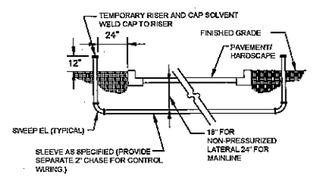
DETAIL - N.T.S.

HEAD REPLACEMENT

DETAIL - NO SCALE

PIPE SIZE	SLEEVE SIZE
3/4"	1-1/4"
1"	2"
1-1/4"	2-1/2"
1-1/2"	2-1/2"
2"	3"
2-1/2"	4"
3, 4"	6"

SLEEVE SIZE SCHEDULE



SLEEVE INSTALLATION

DETAIL - N.T.S.

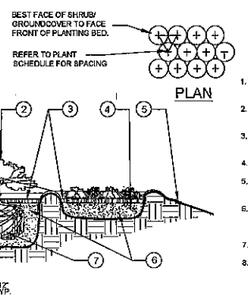
MULCH DETAIL FOR TREE AND SHRUB PLANTINGS

NTS — SECTION

1. FIRE HYDRANT
2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. PROVIDE A MULCH, 4" DEPTH MIN., SURROUNDING AREA INDICATED.

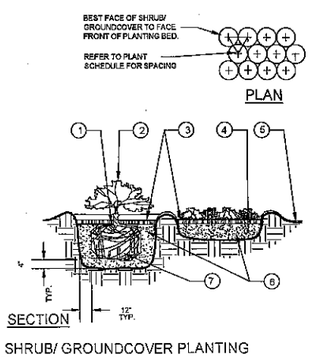
FIRE HYDRANT CLEAR ZONE

NTS — PLAN



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES- PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT
3. 4" MINIMUM OF SHREDDED HARDWOOD MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL MIX AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.
8. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

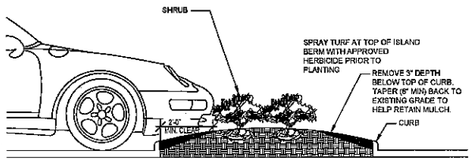
SHRUB/ GROUNDCOVER PLANTING ON SLOPE



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES- PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT
3. 4" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.

SHRUB/ GROUNDCOVER PLANTING

NTS



MULCH TAPER DETAIL

NTS

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on the document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Kimley»Horn
© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
4572 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100 FAX: 772-794-4101
WWW.KIMLEY-HORN.COM CA 00000696

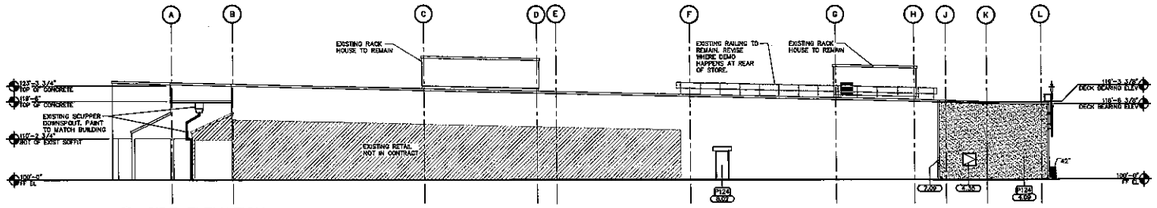
DESIGN ENGINEER: ALAN J. ROSS
LICENSE NUMBER: 17 22665
STATE OF FLORIDA
JUN 1

SCALE NOTED
DESIGNED BY MTF
DRAWN BY MTF
CHECKED BY DAS
DATE:

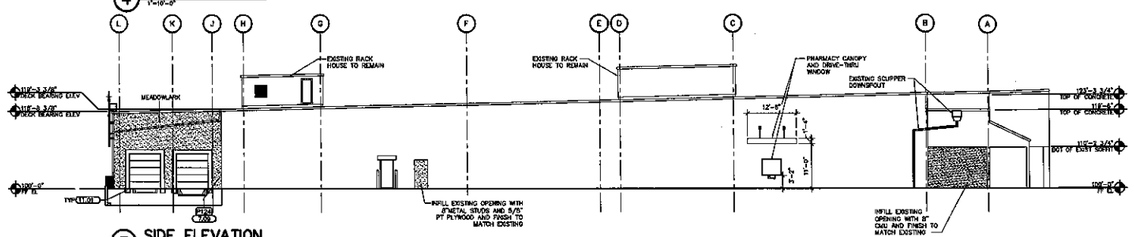
LANDSCAPE AND IRRIGATION DETAILS

Walmart: STORE #4563-00
DANIA BEACH, FL
WAL-MART STORES EAST, LP
DANIA BEACH FL

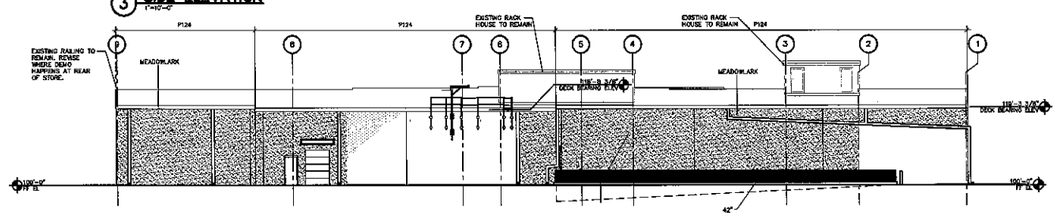
DATE 10/22/14
PROJECT NO. 147253678
SHEET NUMBER
6510



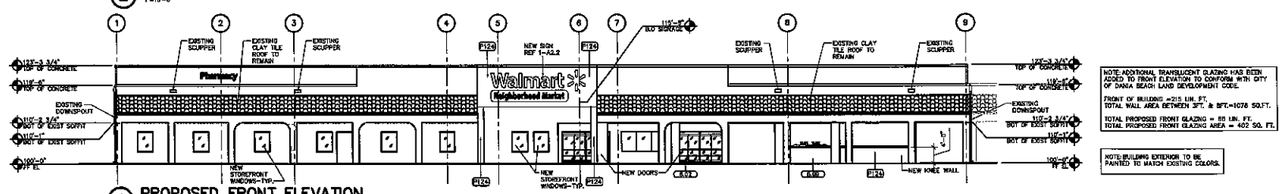
4 SIDE ELEVATION
1"=10'-0"



3 SIDE ELEVATION
1"=10'-0"



2 REAR ELEVATION
1"=10'-0"



NOTE: ADDITIONAL TRANSLUCENT GLAZING HAS BEEN ADDED TO FRONT ELEVATION TO CONFORM WITH CITY OF DANIA BEACH LAND DEVELOPMENT CODE.

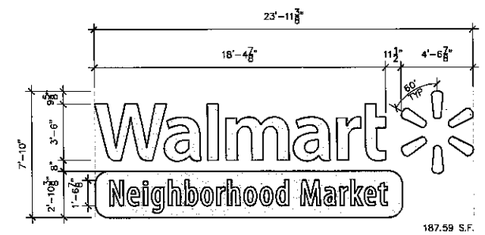
FRONT OF BUILDING =215 LIN. FT.
TOTAL WALL AREA BETWEEN 3FT. & 8FT.=1078 SQ.FT.

TOTAL PROPOSED FRONT GLAZING = 55 LIN. FT.
TOTAL PROPOSED FRONT GLAZING AREA = 402 SQ. FT.

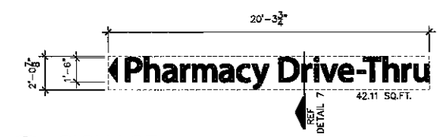
NOTE: BUILDING EXTERIOR TO BE PAINTED TO MATCH EXISTING COLORS.

1 PROPOSED FRONT ELEVATION
1"=10'-0"
(PROPOSED)

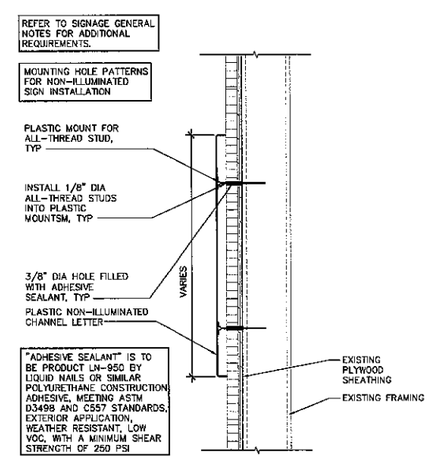
NOTE TO SIGN INSTALLER:
ALL PRIMARY MOUNTING HOLES MUST BE UTILIZED. IF MOUNTING THROUGH PRIMARY HOLE IS OBSTRUCTED BY REBAR, METAL STUDS, CHANNELS, OR OTHER MISC METAL, SEAL PRIMARY HOLE IN SIGN CAN AND MOUNT THROUGH THE NEAREST ALTERNATE MOUNTING HOLE. PRIMARY HOLES ARE INDICATED WITH PREDRILLED HOLES THROUGH WASHERS. ALTERNATE HOLES ARE INDICATED WITH WASHERS ONLY OR ARE OTHERWISE MARKED.



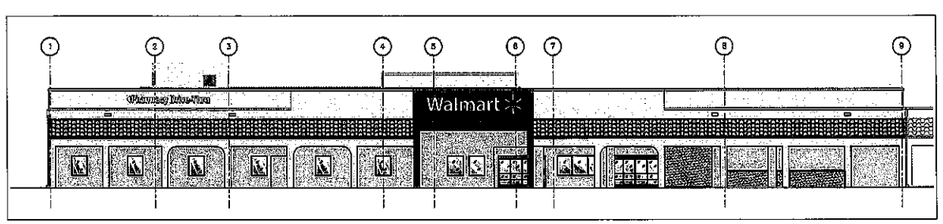
5 SIGNAGE
1/4" = 1'-0"
a021-001



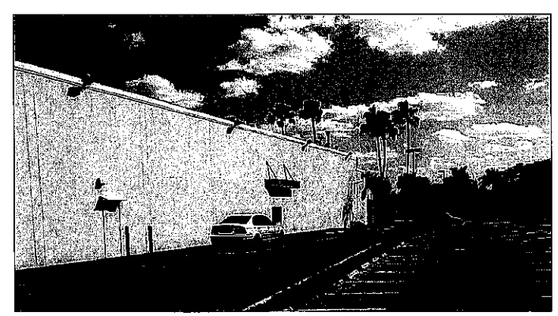
6 SIGNAGE
1/4" = 1'-0"



7 SIGN ATTACHMENT AT EIFS AND METAL STUD WALL
1 1/2"=1'-0"



9 PROPOSED FINISHES
NTS



8 PERSPECTIVE AT RX DRIVE-THRU
NTS

Cahaci & Peterson
Cahaci & Peterson Architects, Inc.
AA26000551
1500 Sunset Harbor Drive, Miami Beach, FL 33141
Tel 305.868.1688 Fax 305.868.1689
www.cnp.com

STIPULATION FOR REUSE
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CAHACI & PETERSON ARCHITECTS, INC. AND SHALL NOT BE REPRODUCED, PUBLISHED OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CAHACI & PETERSON ARCHITECTS, INC. VIOLATION OF THE RESERVED RIGHTS OF CAHACI & PETERSON ARCHITECTS, INC. WILL BE PROSECUTED.

CONSULTANTS

Walmart
DANIA BEACH, FL
STORE NO.4563
JOB NUMBER: 2140506

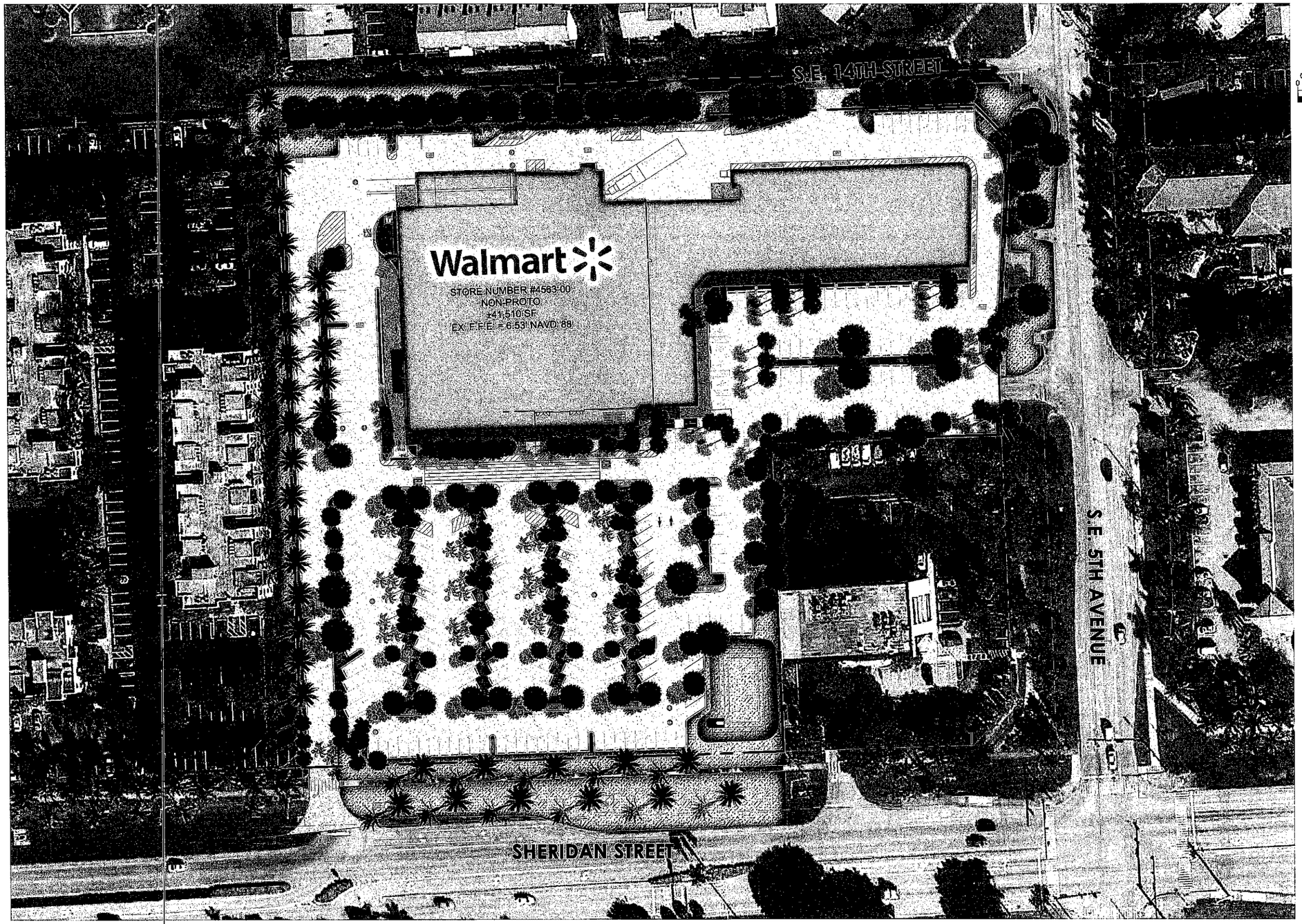
ISSUE BLOCK

CHECKED BY:	LP
DRAWN BY:	C&P
PROTO:	41
PROTO CYCLE:	050115
DOCUMENT DATE:	050315

NOT FOR CONSTRUCTION

STATE OF FLORIDA
LEIGH PAHUL
AR0002929
REGISTERED ARCHITECT
Jun 04, 2015

SHEET:

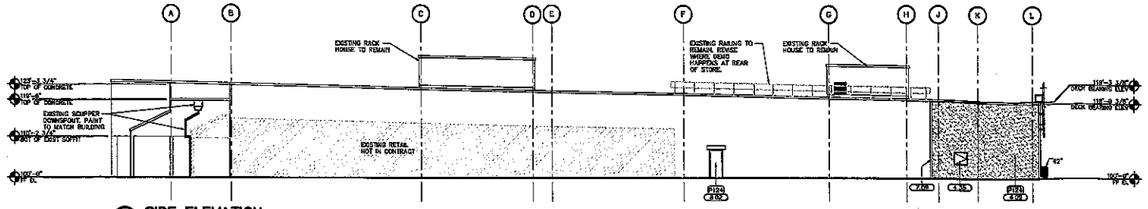


Walmart - Dania Beach

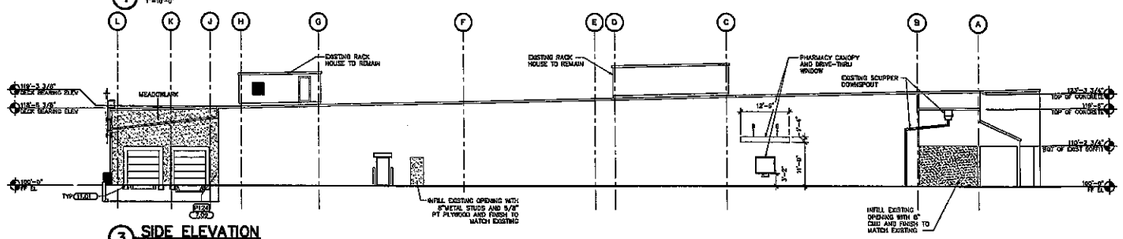
Sheridan Street & 5th Avenue

June 2015

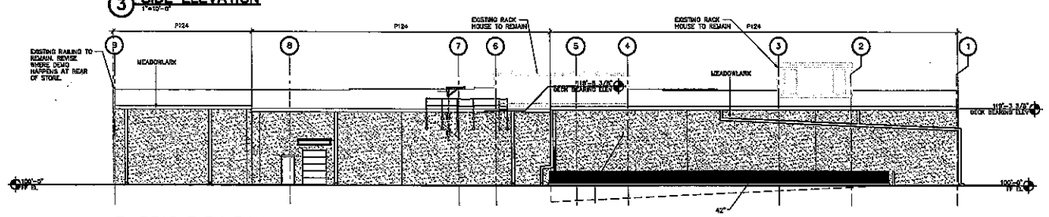
Kimley»Horn



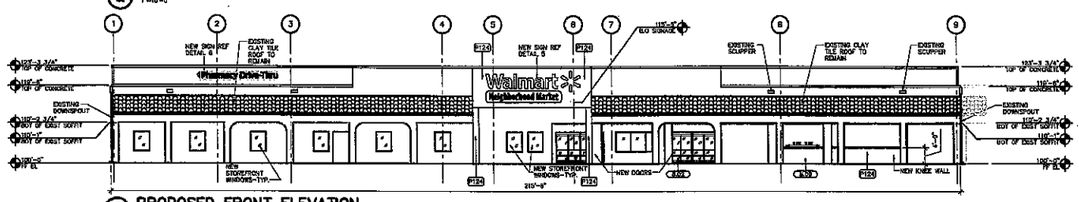
4 SIDE ELEVATION
1"=10'-0"



3 SIDE ELEVATION
1"=10'-0"



2 REAR ELEVATION
1"=10'-0"



NOTE:ADDITIONAL TRANSLUCENT GLAZING HAS BEEN ADDED TO FRONT ELEVATION TO CONFORM WITH CITY OF DANIA BEACH LAND DEVELOPMENT CODE.

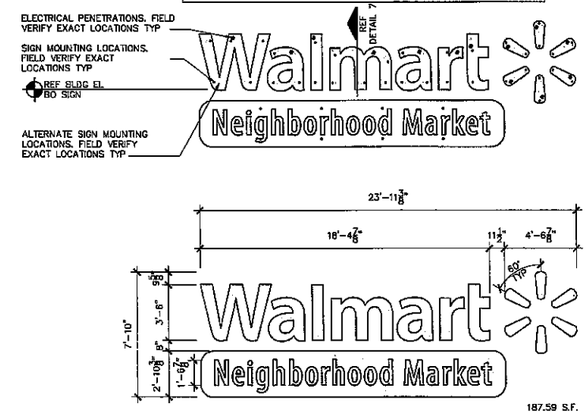
FRONT OF BUILDING =212 LIN. FT.
TOTAL WALL AREA BETWEEN 9'1 & 8FT.=1075 SQ.FT.

TOTAL PROPOSED FRONT GLAZING = 55 LIN. FT.
TOTAL PROPOSED FRONT GLAZING AREA = 402 SQ. FT.

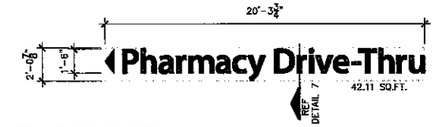
NOTE:BUILDING EXTERIOR TO BE PAINTED TO MATCH EXISTING COLORS.

1 PROPOSED FRONT ELEVATION
1"=10'-0"

NOTE TO SIGN INSTALLER:
ALL PRIMARY MOUNTING HOLES MUST BE UTILIZED. IF MOUNTING THROUGH PRIMARY HOLE IS OBSTRUCTED BY REBAR, METAL STUDS, CHANNELS, OR OTHER MISC METAL, SEAL PRIMARY HOLE IN SIGN CAN AND MOUNT THROUGH THE NEAREST ALTERNATE MOUNTING HOLE. PRIMARY HOLES ARE INDICATED WITH PREDRILLED HOLES THROUGH WASHERS. ALTERNATE HOLES ARE INDICATED WITH WASHERS ONLY OR ARE OTHERWISE MARKED.



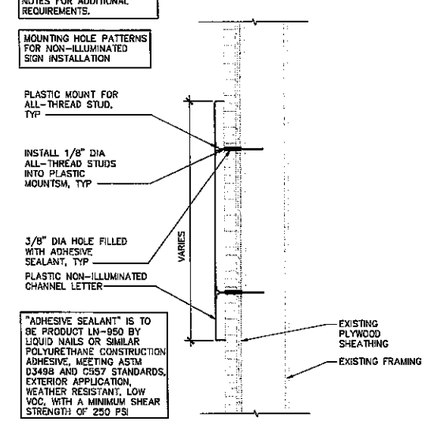
5 SIGNAGE
1/4" = 1'-0"
a021-001



6 SIGNAGE
1/4" = 1'-0"

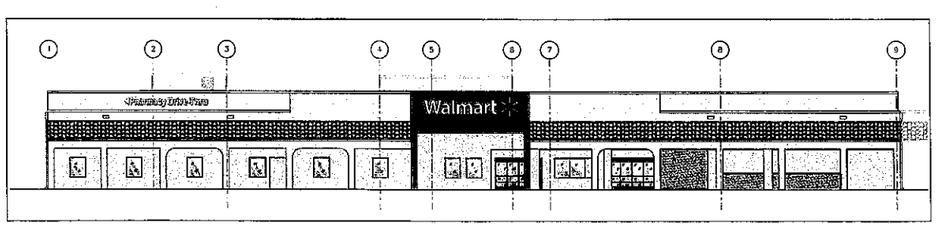
REFER TO SIGNAGE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

MOUNTING HOLE PATTERNS FOR NON-ILLUMINATED SIGN INSTALLATION



"ADHESIVE SEALANT" IS TO BE PRODUCT LN-950 BY LIQUID NAILS OR SIMILAR POLYURETHANE CONSTRUCTION ADHESIVE, MEETING ASTM D3498 AND C957 STANDARDS, EXTERIOR APPLICATION, WEATHER RESISTANT, LOW VOC, WITH A MINIMUM SHEAR STRENGTH OF 250 PSI

7 SIGN ATTACHMENT AT EIFS AND METAL STUD WALL
1 1/2"=1'-0"



9 PROPOSED FINISHES
NTS

8 PERSPECTIVE AT RX DRIVE-THRU
NTS

Cuhaci & Peterson
Architects Engineers Planners
Walmart Development Group

STIPULATION FOR REUSE

CONSULTANTS

Walmart
DANIA BEACH, FL
STORE NO. 4563
JOB NUMBER: 2145508

ISSUE BLOCK

CHECKED BY:	LP
DRAWN BY:	C&P
PROTOX:	41
PROTO CYCLE:	050115
DOCUMENT DATE:	050315

NOT FOR CONSTRUCTION

STATE OF FLORIDA
JOSEPH PAGALI
AR0002826
REGISTERED ARCHITECT
Jun 17, 2015

SHEET: